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BASF CORPORATION

GEISMAR, LOUISIANA

HAZARDOUS WASTE COMBUSTOR NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS

INFORMATION COLLECTION REQUEST TEST REPORT FOR UTILITY BOILER No. 3

SEPTEMBER 2024

Coterie ENVIRONMENTAL

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1.0 INTRODUCTION

This test report is being submitted by BASF Corporation (BASF) for a hazardous waste fired boiler located at BASF's Geismar, Louisiana, facility. This unit is designated as Utility Boiler No. 3. An emission test was performed for Utility Boiler No. 3 in response to United States Environmental Protection Agency's (USEPA's) Clean Air Act Section 114 Information Collection Request (ICR), dated January 31, 2024, for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Hazardous Waste Combustors (HWCs) codified in Title 40 Code of Federal Regulations (CFR) Part 63 Subpart EEE.

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

1.1 FACILITY OVERVIEW

The BASF facility is located adjacent to the Mississippi River on over 2,000 acres, most of which is located to the southwest of State Highway 30. The plant is approximately two kilometers southeast of Geismar, Louisiana, and 19 kilometers south of Baton Rouge, Louisiana. The facility is surrounded by land used primarily for industrial and agricultural purposes. The facility produces various chemical products and intermediates. The BASF Geismar facility is considered a major stationary source of HAPs as defined in Section 112(a) of the Clean Air Act as amended November 15, 1990.

The location and identification numbers of the BASF Geismar facility are:

BASF Corporation
8404 River Road
Geismar, Louisiana 70734-0457
Latitude: 30.19021, Longitude: -91.01134
EPA ID No. LAD 040 776 809
EPA Facility Registry Service (FRS) No. 110070834884
Standard Industrial Classification (SIC) 2869
North American Industry Classification System (NAICS) 325199

All correspondence should be directed to the following facility contact:

Clint Palermo
Sr. Environmental Specialist
BASF Corporation
8404 River Road
Geismar, Louisiana 70734-0457

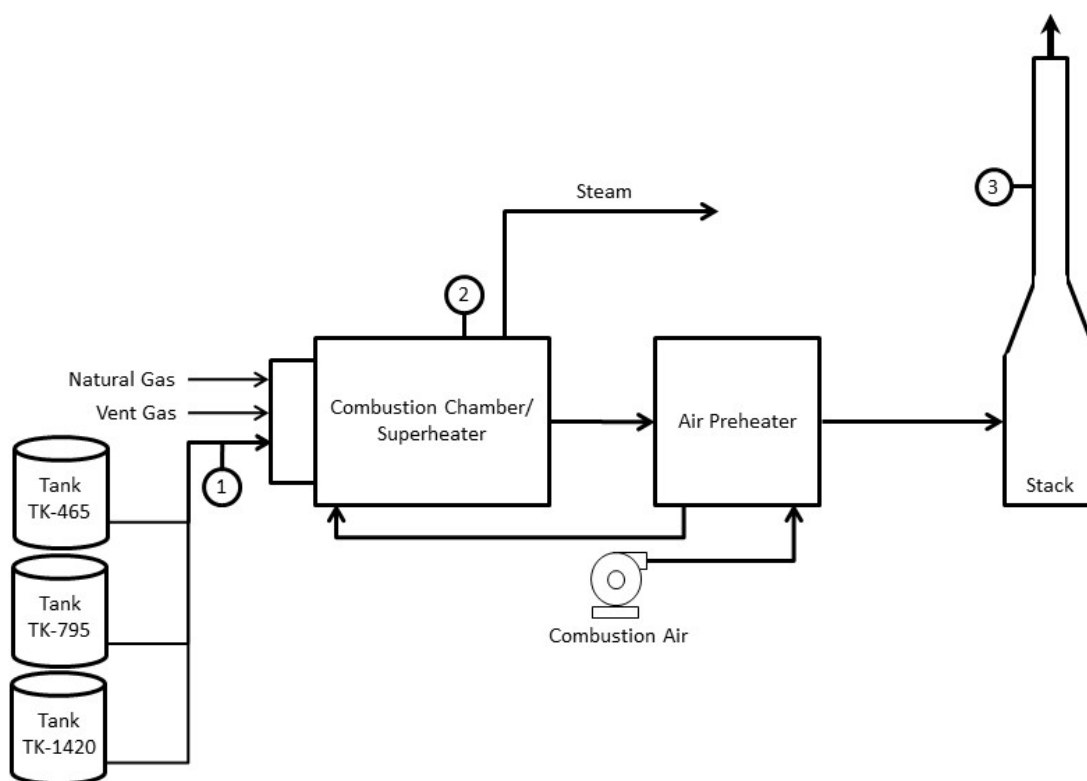
Phone: (225) 339-2636
Email: clint.palermo@basf.com

1.2 HAZARDOUS WASTE COMBUSTOR OVERVIEW

The Geismar facility currently operates Utility Boiler No. 3 to provide energy recovery as steam while destroying hazardous waste streams generated in several production units. Utility Boiler No. 3 is fired on a mixture of natural gas, process vent gas, and liquid hazardous waste. The liquid hazardous wastes fired in Utility Boiler No. 3 are identified as mixed alcohols, polytetrahydrofuran (polyTHF) waste, and mixed amines. The main components of Utility Boiler No. 3 are a firebox, a superheater, an air preheater, a forced draft fan, and a stack. The Source Classification Code (SCC) for Utility Boiler No. 3 is 10202002 (external combustion, industrial boiler, hazardous waste, liquid/gaseous fuel boiler).

Figure 1-1 provides a general process schematic of Utility Boiler No. 3.

**FIGURE 1-1
UTILITY BOILER NO. 3 SCHEMATIC**



1.3 TEST OVERVIEW

This emission test was designed to provide the information requested in USEPA's ICR. One test condition was performed for the boiler. The test condition consisted of seven replicate test runs. Utility Boiler No. 3 was operated in a normal and representative manner during the emission test (*i.e.*, in a manner consistent with the boiler's current operating parameter limits (OPLs)).

The ICR required emission testing for the following pollutants:

- Polycyclic aromatic hydrocarbons (PAH);
- Polychlorinated biphenyls (PCB);
- Hydrocarbons (HC);
- Hydrogen fluoride (HF);
- Hydrogen bromide (HBr); and
- Hydrogen cyanide.

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

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

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

1.4 TEST REPORT ORGANIZATION

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

- Section 2.0 presents a description of the operating conditions;
- Section 3.0 presents a summary of the sampling procedures;
- Section 4.0 presents a summary of the analytical procedures;
- Section 5.0 presents a summary of the feedstream analyses;
- Section 6.0 presents a summary of the stack gas results;
- Appendix A contains the site-specific test plan, including quality assurance project plan (QAPP);
- Appendix B contains the process monitoring data;
- Appendix C contains the liquid waste sampling report;

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- Appendix D contains the ATG report entitled *Source Test Report, BASF Corporation, Utility Boiler No. 3* (Report Number AST-2024-2573);
 - Appendix E contains the analytical data packages; and
 - Appendix F provides the analytical data assessment forms.

2.0 OPERATING CONDITIONS

This emission test was designed to provide the information requested in USEPA's ICR. The program consisted of one test condition. The test condition consisted of seven replicate test runs. The test condition was designed to demonstrate operations of Utility Boiler No. 3 in a normal and representative manner. To establish the operating conditions for the test, operating data from April 2023 through March 2024 was reviewed. The target conditions were set within the averages and the maximum or minimum OPL, as appropriate.

2.1 COMBUSTION CHAMBER TEMPERATURE

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

2.2 STACK GAS FLOW RATE

BASF continuously monitors the stack gas flow rate to demonstrate compliance with the maximum stack gas flow rate OPL. The stack gas flow rate is monitored in thousand pounds per hour (klb/hr).

2.3 STEAM PRODUCTION RATE

BASF continuously monitored the steam production rate for plant operations. This monitoring is not required by the HWC NESHAP. The steam production rate is monitored in klb/hr.

2.4 TOTAL HAZARDOUS WASTE FEED RATE

BASF continuously monitors the total hazardous waste feed rate to demonstrate compliance with the maximum total hazardous waste feed rate OPL. The total hazardous waste feed rate is monitored in gallons per minute (gpm). BASF fed both mixed alcohols and mixed amines during the testing. The waste streams cannot be fed simultaneously. Therefore, one waste stream was chosen for each test run based on production demands on each day of testing.

2.5 NATURAL GAS FEED RATE

Pipeline quality natural gas is used as the main fuel for Utility Boiler No. 3. BASF continuously monitors the natural gas feed rate for plant operations. This monitoring is not required by the HWC NESHAP. The natural gas feed rate is monitored in thousand standard cubic feet per hour (kscfh).

2.6 PROCESS VENT GAS FEED RATE

In addition to the liquid wastes, BASF feeds a non-hazardous process vent gas to Utility Boiler No. 3. This process vent gas originates from the acetylene process unit and is referred to as the acetylene off-gas (AOG) vent. BASF continuously monitors the AOG vent feed rate for plant operations. This monitoring is not required by the HWC NESHAP. The AOG vent feed rate is monitored in kscfh.

2.7 TEST LOG

The emission test was conducted during the week of May 6, 2024. Short summaries of the daily test activities are provided below.

Monday, May 6, 2024 – The test team arrived onsite to setup equipment for testing.

Tuesday, May 7, 2024 – The boiler was operating at target conditions at 8:20 a.m. Run 1 began at 8:55 a.m. and ended at 1:27 p.m. Run 2 began at 2:25 p.m. and ended at 6:56 p.m. There were no disruptions during the test runs.

Wednesday, May 8, 2024 – The boiler was operating at target conditions at 8:05 a.m. Run 3 began at 8:25 a.m. and ended at 12:57 p.m. Run 4 began at 1:36 p.m. and ended at 6:08 p.m. There were no disruptions during the test runs.

Thursday, May 9, 2024 – The boiler was operating at target conditions at 8:08 a.m. Run 5 began at 8:15 a.m. and ended at 1:07 p.m. Run 6 began at 2:00 p.m. and ended at 6:33 p.m. There were no disruptions during the test runs.

Friday, May 10, 2024 – The boiler was operating at target conditions at 8:00 a.m. Run 7 began at 8:15 a.m. and ended at 12:43 p.m. There were no disruptions during the test run. The test team broke down the equipment, packed all samples, and left the site. All testing for the ICR was completed.

2.8 OPERATING DATA SUMMARY

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

**TABLE 2-1
OPERATING CONDITIONS**

OPERATING PARAMETER	UNITS	TARGETS	STATISTICS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Combustion chamber temperature	°F	1,750	Average	1,760	1,786	1,780	1,784	1,714	1,726	1,840	1,770
			Minimum	1,725	1,750	1,737	1,769	1,676	1,703	1,799	
			Maximum	1,821	1,829	1,811	1,800	1,757	1,755	1,885	
Stack gas flow rate	klb/hr	150	Average	143	137	146	146	137	142	164	145
			Minimum	133	128	144	140	129	136	151	
			Maximum	161	146	149	150	144	150	174	
Steam production rate	klb/hr	---	Average	117	117	120	120	110	116	135	119
			Minimum	110	110	114	117	105	112	125	
			Maximum	135	131	128	125	117	122	145	
Total hazardous waste feed rate	gpm	15	Average	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
			Minimum	15.0	14.9	14.8	15.0	14.8	15.0	14.9	
			Maximum	15.1	15.0	15.1	15.0	15.1	15.1	15.1	
Natural gas feed rate	kscfh	---	Average	92.1	48.5	104	104	90.0	97.7	102	91.3
			Minimum	26.8	27.0	104	104	82.4	91.6	76.8	
			Maximum	127.6	73.7	105	107	100	110	124	
Acetylene off-gas vent feed rate	kscfh	---	Average	83.6	177	20.0	20.0	21.9	21.9	91.1	62.2
			Minimum	0	108	19.5	19.6	21.5	21.6	20.8	
			Maximum	331	288	20.4	20.4	22.3	22.3	151	

3.0 SAMPLING PROCEDURES

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

3.1 LIQUID WASTE SAMPLING

BASF fed both mixed alcohols and mixed amines to Utility Boiler No. 3 during the test. The waste streams cannot be fed simultaneously. Therefore, one waste stream was chosen for each test run based on production demands on each day of testing. Samples of the liquid waste were collected during each run. The sampling methods were standard methods; therefore, only brief descriptions are provided. More detailed descriptions on the sampling methods can be found in the indicated reference documents and in the QAPP. The QAPP is provided in Appendix A. The liquid waste sampling report is provided in Appendix C.

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

3.2 PROCESS VENT GAS SAMPLING

The AOG vent was fed to Utility Boiler No. 3 during the test. The AOG vent was not sampled during the test. AOG vent characterization information is provided in Section 2.4 of the site-specific test plan.

3.3 NATURAL GAS SAMPLING

Natural gas was fed to Utility Boiler No. 3 during the test. The natural gas was not sampled during the test. The natural gas is not expected to contain any regulated constituents in greater than trace quantities.

3.4 STACK GAS SAMPLING

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

The following monitoring and sampling methods were used:

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

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

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

TABLE 3-1
STACK GAS SAMPLING

SAMPLING METHOD ¹	SAMPLING DURATION	SAMPLES COLLECTED PER RUN
USEPA Method 1	Before test series	Not applicable
USEPA Method 2	With each sampling train	Not applicable
USEPA Method 3A	Duration of each test run	Not applicable
USEPA Method 4	With each sampling train	Impingers weighed onsite
USEPA Method 23	250 minutes	Filter
		Front-half and back-half acetone and toluene rinses
		XAD-2 resin
		Deionized water impingers contents
		Deionized water impingers acetone and toluene rinses
USEPA Method 25A (Portable CEMS)	Duration of each test run	Not applicable
USEPA Method 320	60 minutes	Not applicable
Facility CEMS (USEPA Performance Specification 4B)	Duration of each test run	Not applicable

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

3.4.1 POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS

Seven samples for PAH and PCB were collected according to USEPA Methods 1, 2, 3A, 4, and 23. For each run, samples of ten-minute duration were taken isokinetically at each of the 25 traverse points for a total sampling time of 250 minutes. Data was recorded at five-minute intervals.

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

- Glass nozzle;
- Heated glass probe maintained between 223 and 273°F;

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

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

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

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

3.4.2 HYDROCARBONS

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

3.4.3 HYDROGEN CYANIDE

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

3.4.4 CARBON MONOXIDE AND OXYGEN

The Utility Boiler No. 3 CEMS were operated during each test run to monitor the concentrations of CO and oxygen in the stack gas. A continuous sample of stack gas is withdrawn via a sample probe. The HWC NESHAP requires that the CO and oxygen CEMS comply with Performance Specification 4B in 40 CFR Part 60 Appendix B.

3.5 SAMPLING QUALITY ASSURANCE AND QUALITY CONTROL

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

3.6 SAMPLING DATA SUMMARY

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

The tables include data for actual sample volume in cubic feet (ft³) and corrected sample volume in dry standard cubic feet (dscf). Stack gas temperature and pressure data are presented in °F and inches of mercury (in. Hg), respectively. Stack gas composition data is presented in percent volume (% vol) or percent volume on a dry basis (% vol dry). Stack gas velocity is presented in feet per second (fps), and stack gas flow rate is presented in actual cubic feet per minute (acfm), standard cubic feet per minute (scfm), and/or dry standard cubic feet per minute (dscfm).

TABLE 3-2
USEPA METHOD 23 SAMPLING TRAIN OPERATING DATA

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Date	---	05/07/2024	05/07/2024	05/08/2024	05/08/2024	05/09/2024	05/09/2024	05/10/2024	---
Start time	---	08:55	14:25	08:25	13:36	08:15	14:00	08:15	---
Stop time	---	13:27	18:56	12:57	18:08	13:07	18:33	12:43	---
Sampling duration	minutes	250	250	250	250	250	250	250	250
Actual sample volume	ft ³	155.673	149.683	163.061	154.979	147.346	152.177	184.949	158.267
Corrected sample volume	dscf	151.026	143.824	159.153	148.545	143.607	145.528	181.969	153.379
Stack temperature	°F	397.4	421.7	402.0	432.6	390.5	425.8	435.3	415.0
Stack pressure	in. Hg	29.82	29.80	29.78	29.75	29.80	29.79	29.83	29.80
Moisture content	% vol	21.0	21.8	19.8	19.8	20.6	21.0	19.0	20.4
Carbon dioxide	% vol dry	10.37	10.89	10.88	10.91	10.44	10.23	10.81	10.65
Oxygen	% vol dry	4.47	4.41	4.42	4.43	4.63	4.42	4.51	4.47
Stack gas velocity	fps	30.5	29.8	32.1	31.2	28.9	30.3	38.1	31.6
Stack gas flow rate	acfm	57,428	56,016	60,441	58,699	54,411	57,051	71,594	59,377
Stack gas flow rate	scfm	35,237	33,400	36,837	34,514	33,631	33,846	42,080	35,649
Stack gas flow rate	dscfm	27,843	26,135	29,545	27,681	26,710	26,741	34,078	28,390
Percent isokinetic	%	101.1	102.6	100.4	100.1	100.2	101.5	99.6	100.8

TABLE 3-3
USEPA METHOD 25A SAMPLING DATA

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Date	---	05/07/2024	05/07/2024	05/08/2024	05/08/2024	05/09/2024	05/09/2024	05/10/2024	---
Start time	---	08:55	14:25	08:25	13:36	08:15	14:00	08:15	---
Stop time	---	13:26	18:55	12:56	18:07	13:06	18:32	12:42	---
Sampling duration	min	250	250	250	250	250	250	250	250
Moisture content	% vol	21.0	21.8	19.8	19.8	20.6	21.0	19.0	20.4
Oxygen	% vol dry	4.47	4.41	4.42	4.43	4.63	4.42	4.51	4.47
Stack gas flow rate	dscfm	27,843	26,135	29,545	27,681	26,710	26,741	34,078	28,390

TABLE 3-4
USEPA METHOD 320 SAMPLING DATA

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Date	---	05/07/2024	05/07/2024	05/08/2024	05/08/2024	05/09/2024	05/09/2024	05/10/2024	---
Start time	---	08:55	14:25	08:25	13:36	08:15	14:00	08:15	---
Stop time	---	13:26	18:55	12:56	18:07	13:06	18:32	12:42	---
Sampling duration	min	250	250	250	250	250	250	250	250
Moisture content	% vol	21.0	21.8	19.8	19.8	20.6	21.0	19.0	20.4
Oxygen	% vol dry	4.47	4.41	4.42	4.43	4.63	4.42	4.51	4.47
Stack gas flow rate	dscfm	27,843	26,135	29,545	27,681	26,710	26,741	34,078	28,390

4.0 ANALYTICAL PROCEDURES

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

4.1 LIQUID WASTE ANALYSES

All liquid waste samples were sent to Eurofins for analysis. Samples of the liquid waste were analyzed for density using ASTM Method D1475 and higher heating value using ASTM Method D240. All holding times for these analyses were met, and all quality assurance (QA) and quality control (QC) criteria for these analyses were within acceptance limits.

4.2 PROCESS VENT GAS ANALYSES

The AOG vent was not analyzed for the test. Process knowledge is used to characterize the AOG vent. AOG vent characterization information is provided in Section 2.4 of the site-specific test plan.

4.3 NATURAL GAS ANALYSES

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

4.4 STACK GAS ANALYSES

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

4.5 ANALYTICAL QUALITY ASSURANCE AND QUALITY CONTROL

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

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

Tables 4-1 through 4-5 provide details on the QA/QC results. Detailed descriptions of the evaluations are included in the analytical data packages provided in Appendix E and the analytical data assessment forms provided in Appendix F.

TABLE 4-1
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL
LIQUID WASTE SAMPLES – DENSITY

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Precision	Field duplicate	One per test program	≤20% relative percent difference	None
	Sample duplicate	One per analytical batch	≤10% relative percent difference	None
Accuracy	Laboratory control samples	Two per analytical batch	99-101% recovery	None
Calibration	Calibration	Before analysis and as needed	≤0.5% relative standard deviation	None
Contamination effects	None	---	---	---
Handling and traceability	Holding time	Each sample	<180 days	None

TABLE 4-2
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL
LIQUID WASTE SAMPLES – HIGHER HEATING VALUE

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Precision	Field duplicate	One per test program	≤20% relative percent difference	None
	Laboratory control sample duplicate	One per analytical batch	≤2% relative percent difference	None
	Sample duplicate	One per analytical batch	≤10% relative percent difference	None
Accuracy	Laboratory control samples	Two per analytical batch	98-102% recovery	None

TABLE 4-2 (CONTINUED)
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL
LIQUID WASTE SAMPLES – HIGHER HEATING VALUE

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Calibration	Initial Calibration	Before analysis and as needed	≤1% relative standard deviation	None
	Calibration checks	As needed	±1% difference from initial calibration	None
Contamination effects	None	---	---	---
Handling and traceability	Holding time	Each sample	<180 days	None

TABLE 4-3
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL
STACK GAS – POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Precision	Laboratory control sample duplicate	One per analytical batch	≤50% relative percent difference	None
Accuracy	Laboratory control samples	Two per analytical batch	70-130% recovery	None
	Internal standards (isotope dilution)	Every sample	20-130% recovery for polycyclic aromatic hydrocarbons 20-145% recovery for polychlorinated biphenyls	None
	Surrogate standards	Every sample	70-130% recovery	Recoveries for 13C6-benzo(c)fluorene surrogate in Run 2, Run 3, Run 4, and Run 7 samples were outside of limits. Recoveries for anthracene-d10 surrogate in the Run 3, Run 4, Run 5, and Run 7 samples were outside of limits.
Calibration	Initial calibration (five solutions)	Prior to sample analysis	1. Mean relative response factor for unlabeled standards: <10% relative standard deviation 2. Mean relative response factor for labeled reference compounds: <20% relative standard deviation	None

TABLE 4-3 (CONTINUED)
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL
STACK GAS – POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Calibration (continued)	Calibration verification (midlevel standard)	At least once per shift	1. Response factors within $\pm 25\%$ of the initial calibration mean relative response factor for unlabeled standards 2. Response factors within $\pm 25\%$ of the initial calibration mean relative response factor for pre-sampling adsorbent standard and pre-extraction filter recovery standard 3. Response factors within $\pm 30\%$ of the initial calibration mean relative response factor for pre-extraction standard and alternative recovery standard	None
	Retention time window verification and gas chromatograph column performance	At the beginning of each shift	Compliance with USEPA Method 23	None
Contamination effects	Method blank	One per analytical batch	<Reporting limit	Phenanthrene was reported in the method blank for Batch 87921 at concentration above the reporting limit.
	Field proof blank	One per test program	<Reporting limit	Several analytes were reported in the field proof blank at concentrations above the reporting limits.
Handling and traceability	Holding time	Each sample	1. <30 days to extraction 2. <45 days from extraction to analysis	None

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

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

TABLE 4-5
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL
STACK GAS – HYDROGEN CYANIDE

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

Table 4-6 summarizes the analytical deviations and provides discussions of the impact that the deviations had on the analytical results, if any.

TABLE 4-6
SUMMARY OF ANALYTICAL DEVIATIONS

RUN	DEVIATION/EXCEPTION			SIGNIFICANCE
Liquid waste analyses:				
None	None			None
Stack gas analyses:				
2, 3, 4, 7	Recoveries for the 13C6-benzo(c)fluorene surrogate in the Run 2, Run 3, Run 4, and Run 7 samples were outside of limits. The recoveries were 132, 134, 138, and 133 percent, respectively, which are just above the upper limit of 130 percent.			Generally, data quality is not considered affected if the signal-to-noise ratio is greater than 10:1, which was achieved for all analytes in the sample.
3, 4, 5, 7	Recoveries for the anthracene-d10 surrogate in the Run 3, Run 4, Run 5, and Run 7 samples were outside of limits. The recoveries were 21, 15, 58, and 52 percent, respectively, which are below the lower limit of 70 percent.			Generally, data quality is not considered affected if the signal-to-noise ratio is greater than 10:1, which was achieved for all analytes in the sample.
All	Phenanthrene was reported in the method blank for Batch 87921 at a concentration above the reporting limit. The reported concentration was 16.87 nanograms per sample (ng/sample), and the reporting limit was 6.00 ng/sample.			The results for phenanthrene may exhibit a slight high bias. Sample results for phenanthrene were much higher than the amount found in the method blank. Therefore, this deviation has minimal impact on the results.
All	Several analytes were reported in the field proof blank at concentrations above the reporting limits.			The results for these analytes may exhibit a high bias.
	Analyte	Result ng/sample	Reporting Limit ng/sample	
	2,2',3,5'-tetrachlorobiphenyl (PCB-44)	2.0	0.900	
	Acenaphthene	68.9	30.0	
	Acenaphthylene	14.7	3.00	
	Anthracene	47.7	30.0	
	Fluoranthene	31.8	6.00	
	Fluorene	136	30.0	
	Naphthalene	145	75.0	
	2-Methylnaphthalene	123	75.0	
	Phenanthrene	341	6.00	
	Pyrene	27.4	6.00	

5.0 FEEDSTREAM RESULTS

Liquid waste, AOG vent, and natural gas were fed to Utility Boiler No. 3 during each test run. This section of the report presents the results of feedstream analyses.

5.1 LIQUID WASTE

The liquid hazardous wastes fired in Utility Boiler No. 3 are identified as mixed alcohols, polyTHF waste, and mixed amines. BASF fed both mixed alcohols and mixed amines during the testing. The waste streams cannot be fed simultaneously. Therefore, one waste stream was chosen for each test run based on production demands on each day of testing. Table 5-1 presents the higher heating value and density of the liquid waste for each test run. The higher heating value is provided in British thermal units per pound (Btu/lb), and the density is provided in grams per cubic centimeter (g/cm³).

TABLE 5-1
LIQUID WASTE

RUN	LIQUID WASTE	HIGHER HEATING VALUE (BTU/LB)	DENSITY (G/CM ³)
1	Mixed amines	4,930	0.992
2	Mixed amines	5,060	0.989
3	Mixed alcohols	5,860	1.06
4	Mixed alcohols	5,970	1.05
5	Mixed amines	6,070	1.04
6	Mixed amines	6,290	0.985
7	Mixed alcohols	5,940	1.06
Average	- - -	5,310	1.01

5.2 PROCESS VENT GAS

The AOG vent was fed to the boiler. Process knowledge is used to characterize the AOG vent. AOG vent characterization information is provided in Section 2.4 of the site-specific test plan.

5.3 NATURAL GAS

Pipeline quality natural gas was fed to the boiler as the main fuel for combustion. The natural gas is not expected to contain any HWC NESHAP regulated constituents in greater than trace quantities.

6.0 STACK GAS RESULTS

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

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

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

6.1 POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS EMISSION RESULTS

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

6.2 HYDROCARBONS EMISSION RESULTS

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

6.3 HYDROGEN CYANIDE EMISSION RESULTS

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

6.4 CARBON MONOXIDE

The Utility Boiler No. 3 CEMS were operated during the emission test to monitor the concentrations of CO and oxygen in the stack gas. The data presented for CO is based on hourly rolling average (HRA) values; the data presented for oxygen is based on one-minute average readings. The one-minute data recorded is provided in Appendix B.

6.5 STACK GAS RESULTS SUMMARY

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

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

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

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

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

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

TABLE 6-1
POLYCYCLIC AROMATIC HYDROCARBONS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Acenaphthene	ng	64.1	90.0	67.5	57.9	53.1	65.7	49.0	63.9
	ng/dscm	1.50E+01	2.21E+01	1.50E+01	1.38E+01	1.31E+01	1.59E+01	9.51E+00	1.49E+01
	ng/dscm ¹	1.27E+01	1.86E+01	1.26E+01	1.16E+01	1.12E+01	1.34E+01	8.06E+00	1.26E+01
	lb/hr	1.56E-06	2.16E-06	1.66E-06	1.43E-06	1.31E-06	1.60E-06	1.21E-06	1.56E-06
Acenaphthylene	ng	16.3	31.7	20.3	18.3	14.0	16.9	14.8	18.9
	ng/dscm	3.81E+00	7.78E+00	4.50E+00	4.35E+00	3.44E+00	4.10E+00	2.87E+00	4.41E+00
	ng/dscm ¹	3.22E+00	6.56E+00	3.80E+00	3.67E+00	2.94E+00	3.46E+00	2.44E+00	3.73E+00
	lb/hr	3.98E-07	7.62E-07	4.99E-07	4.51E-07	3.44E-07	4.11E-07	3.67E-07	4.62E-07
Anthracene	ng	49.6	76.5	<0.300	62.6	49.2	75.3	56.4	<52.8
	ng/dscm	1.16E+01	1.88E+01	<6.66E-02	1.49E+01	1.21E+01	1.83E+01	1.09E+01	<1.24E+01
	ng/dscm ¹	9.81E+00	1.58E+01	<5.61E-02	1.26E+01	1.03E+01	1.54E+01	9.28E+00	<1.05E+01
	lb/hr	1.21E-06	1.84E-06	<7.37E-09	1.54E-06	1.21E-06	1.83E-06	1.40E-06	<1.29E-06
Benz[a]anthracene	ng	3.78	2.01	2.75	1.77	2.64	3.02	4.40	2.91
	ng/dscm	8.84E-01	4.94E-01	6.10E-01	4.21E-01	6.49E-01	7.33E-01	8.54E-01	6.63E-01
	ng/dscm ¹	7.48E-01	4.16E-01	5.15E-01	3.55E-01	5.55E-01	6.18E-01	7.24E-01	5.62E-01
	lb/hr	1.21E-06	1.84E-06	7.37E-09	1.54E-06	1.21E-06	1.83E-06	1.40E-06	1.29E-06
Benzo[b]fluoranthene	ng	6.13	4.68	5.20	5.67	5.60	8.79	10.1	6.60
	ng/dscm	1.43E+00	1.15E+00	1.15E+00	1.35E+00	1.38E+00	2.13E+00	1.96E+00	1.51E+00
	ng/dscm ¹	1.21E+00	9.69E-01	9.73E-01	1.14E+00	1.18E+00	1.80E+00	1.66E+00	1.28E+00
	lb/hr	1.49E-07	1.12E-07	1.28E-07	1.40E-07	1.38E-07	2.14E-07	2.50E-07	1.62E-07

TABLE 6-1 (CONTINUED)
POLYCYCLIC AROMATIC HYDROCARBONS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Benzo[k]fluoranthene	ng	2.33	1.26	1.81	1.37	1.23	2.25	2.72	1.85
	ng/dscm	5.45E-01	3.09E-01	4.02E-01	3.26E-01	3.02E-01	5.46E-01	5.28E-01	4.23E-01
	ng/dscm ¹	4.61E-01	2.61E-01	3.39E-01	2.75E-01	2.58E-01	4.61E-01	4.48E-01	3.57E-01
	lb/hr	5.68E-08	3.03E-08	4.44E-08	3.38E-08	3.03E-08	5.47E-08	6.74E-08	4.54E-08
Benzo[g,h,i]perylene	ng	73.2	43.4	25.6	42.9	29.9	58.6	38.6	44.6
	ng/dscm	1.71E+01	1.07E+01	5.68E+00	1.02E+01	7.35E+00	1.42E+01	7.49E+00	1.04E+01
	ng/dscm ¹	1.45E+01	8.98E+00	4.79E+00	8.61E+00	6.28E+00	1.20E+01	6.35E+00	8.78E+00
	lb/hr	1.79E-06	1.04E-06	6.29E-07	1.06E-06	7.36E-07	1.42E-06	9.56E-07	1.09E-06
Benzo[a]pyrene	ng	5.16	3.71	1.78	3.01	2.43	5.61	3.78	3.64
	ng/dscm	1.21E+00	9.11E-01	3.95E-01	7.16E-01	5.98E-01	1.36E+00	7.34E-01	8.46E-01
	ng/dscm ¹	1.02E+00	7.68E-01	3.33E-01	6.04E-01	5.11E-01	1.15E+00	6.22E-01	7.15E-01
	lb/hr	1.26E-07	8.92E-08	4.37E-08	7.42E-08	5.98E-08	1.36E-07	9.36E-08	8.90E-08
Benzo[e]pyrene	ng	21.4	15.5	10.2	23.0	10.7	32.7	18.8	18.9
	ng/dscm	5.00E+00	3.81E+00	2.26E+00	5.47E+00	2.63E+00	7.94E+00	3.65E+00	4.39E+00
	ng/dscm ¹	4.23E+00	3.21E+00	1.91E+00	4.61E+00	2.25E+00	6.69E+00	3.09E+00	3.71E+00
	lb/hr	5.22E-07	3.73E-07	2.50E-07	5.67E-07	2.63E-07	7.95E-07	4.66E-07	4.62E-07
Chrysene	ng	15.0	7.06	12.4	7.32	13.1	9.86	19.9	12.1
	ng/dscm	3.51E+00	1.73E+00	2.75E+00	1.74E+00	3.22E+00	2.39E+00	3.86E+00	2.74E+00
	ng/dscm ¹	2.97E+00	1.46E+00	2.32E+00	1.47E+00	2.75E+00	2.02E+00	3.28E+00	2.32E+00
	lb/hr	3.66E-07	1.70E-07	3.05E-07	1.80E-07	3.22E-07	2.40E-07	4.93E-07	2.96E-07
Dibenz[a,h]anthracene	ng	1.27	0.162	0.322	0.0756	0.207	<0.300	0.241	<0.368
	ng/dscm	2.97E-01	3.98E-02	7.14E-02	1.80E-02	5.09E-02	<7.28E-02	4.68E-02	<8.52E-02
	ng/dscm ¹	2.51E-01	3.35E-02	6.03E-02	1.52E-02	4.35E-02	<6.14E-02	3.97E-02	<7.21E-02
	lb/hr	3.10E-08	3.89E-09	7.91E-09	1.86E-09	5.09E-09	<7.29E-09	5.97E-09	<9.00E-09

TABLE 6-1 (CONTINUED)
POLYCYCLIC AROMATIC HYDROCARBONS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Fluoranthene	ng	91.3	89.4	78.7	85.0	86.5	92.5	103	89.5
	ng/dscm	2.13E+01	2.20E+01	1.75E+01	2.02E+01	2.13E+01	2.24E+01	2.00E+01	2.07E+01
	ng/dscm ¹	1.81E+01	1.85E+01	1.47E+01	1.71E+01	1.82E+01	1.89E+01	1.70E+01	1.75E+01
	lb/hr	2.23E-06	2.15E-06	1.93E-06	2.10E-06	2.13E-06	2.25E-06	2.55E-06	2.19E-06
Fluorene	ng	175	236	190	163	130	172	130	171
	ng/dscm	4.09E+01	5.79E+01	4.22E+01	3.88E+01	3.20E+01	4.17E+01	2.52E+01	3.98E+01
	ng/dscm ¹	3.46E+01	4.88E+01	3.56E+01	3.27E+01	2.73E+01	3.52E+01	2.14E+01	3.37E+01
	lb/hr	4.27E-06	5.67E-06	4.67E-06	4.02E-06	3.20E-06	4.18E-06	3.22E-06	4.17E-06
Indeno[1,2,3-cd]pyrene	ng	11.5	8.52	6.29	9.44	5.67	14.1	7.80	9.05
	ng/dscm	2.69E+00	2.09E+00	1.40E+00	2.24E+00	1.39E+00	3.42E+00	1.51E+00	2.11E+00
	ng/dscm ¹	2.27E+00	1.76E+00	1.18E+00	1.89E+00	1.19E+00	2.89E+00	1.28E+00	1.78E+00
	lb/hr	2.80E-07	2.05E-07	1.54E-07	2.33E-07	1.40E-07	3.43E-07	1.93E-07	2.21E-07
2-Methylnaphthalene	ng	340	952	297	628	154	399	134	415
	ng/dscm	7.95E+01	2.34E+02	6.59E+01	1.49E+02	3.79E+01	9.68E+01	2.60E+01	9.85E+01
	ng/dscm ¹	6.73E+01	1.97E+02	5.56E+01	1.26E+02	3.24E+01	8.17E+01	2.21E+01	8.31E+01
	lb/hr	8.29E-06	2.29E-05	7.29E-06	1.55E-05	3.79E-06	9.70E-06	3.32E-06	1.01E-05
Naphthalene	ng	393	796	331	515	206	429	189	408
	ng/dscm	9.19E+01	1.95E+02	7.34E+01	1.22E+02	5.07E+01	1.04E+02	3.67E+01	9.64E+01
	ng/dscm ¹	7.77E+01	1.65E+02	6.19E+01	1.03E+02	4.33E+01	8.78E+01	3.11E+01	8.14E+01
	lb/hr	9.58E-06	1.91E-05	8.13E-06	1.27E-05	5.07E-06	1.04E-05	4.68E-06	9.96E-06
Perylene	ng	2.27	1.22	0.288	0.595	0.432	1.78	1.29	1.13
	ng/dscm	5.31E-01	3.00E-01	6.39E-02	1.41E-01	1.06E-01	4.32E-01	2.50E-01	2.61E-01
	ng/dscm ¹	4.49E-01	2.53E-01	5.39E-02	1.19E-01	9.08E-02	3.64E-01	2.12E-01	2.20E-01
	lb/hr	5.54E-08	2.93E-08	7.07E-09	1.47E-08	1.06E-08	4.33E-08	3.20E-08	2.75E-08

TABLE 6-1 (CONTINUED)
POLYCYCLIC AROMATIC HYDROCARBONS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Phenanthrene	ng	533	923	560	783	421	683	435	620
	ng/dscm	1.25E+02	2.27E+02	1.24E+02	1.86E+02	1.04E+02	1.66E+02	8.44E+01	1.45E+02
	ng/dscm ¹	1.05E+02	1.91E+02	1.05E+02	1.57E+02	8.84E+01	1.40E+02	7.16E+01	1.23E+02
	lb/hr	1.30E-05	2.22E-05	1.38E-05	1.93E-05	1.04E-05	1.66E-05	1.08E-05	1.51E-05
Pyrene	ng	82.4	106	70.7	103	71.7	111	88.2	90.4
	ng/dscm	1.93E+01	2.60E+01	1.57E+01	2.45E+01	1.76E+01	2.69E+01	1.71E+01	2.10E+01
	ng/dscm ¹	1.63E+01	2.19E+01	1.32E+01	2.07E+01	1.51E+01	2.27E+01	1.45E+01	1.78E+01
	lb/hr	2.01E-06	2.55E-06	1.74E-06	2.54E-06	1.76E-06	2.70E-06	2.19E-06	2.21E-06

¹ Emission results are corrected to seven percent oxygen.

TABLE 6-2
POLYCHLORINATED BIPHENYLS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,4'-Dichlorobiphenyl (PCB-8)	ng	0.445	2.41	0.381	1.68	0.227	0.821	0.271	0.891
	ng/dscm	1.04E-01	5.92E-01	8.45E-02	3.99E-01	5.58E-02	1.99E-01	5.26E-02	2.12E-01
	ng/dscm ¹	8.80E-02	4.99E-01	7.13E-02	3.37E-01	4.77E-02	1.68E-01	4.46E-02	1.79E-01
	lb/hr	1.09E-08	5.79E-08	9.36E-09	4.14E-08	5.59E-09	2.00E-08	6.71E-09	2.17E-08
2,2',5-Trichlorobiphenyl (PCB-18)	ng	<0.285	0.966	<0.285	0.752	<0.285	<0.285	<0.285	<0.449
	ng/dscm	<6.66E-02	2.37E-01	<6.32E-02	1.79E-01	<7.01E-02	<6.92E-02	<5.53E-02	<1.06E-01
	ng/dscm ¹	<5.64E-02	2.00E-01	<5.33E-02	1.51E-01	<5.99E-02	<5.83E-02	<4.69E-02	<8.94E-02
	lb/hr	<6.95E-09	2.32E-08	<7.00E-09	1.85E-08	<7.01E-09	<6.93E-09	<7.06E-09	<1.10E-08
2,4,4'-Trichlorobiphenyl (PCB-28)	ng	0.535	2.28	0.451	1.63	0.286	0.861	0.315	0.908
	ng/dscm	1.25E-01	5.60E-01	1.00E-01	3.88E-01	7.03E-02	2.09E-01	6.11E-02	2.16E-01
	ng/dscm ¹	1.06E-01	4.72E-01	8.44E-02	3.27E-01	6.01E-02	1.76E-01	5.18E-02	1.82E-01
	lb/hr	1.30E-08	5.48E-08	1.11E-08	4.02E-08	7.04E-09	2.09E-08	7.80E-09	2.21E-08
2,2',3,5'- Tetrachlorobiphenyl (PCB-44)	ng	4.00	6.28	4.00	4.35	2.50	3.77	2.57	3.92
	ng/dscm	9.35E-01	1.54E+00	8.88E-01	1.03E+00	6.15E-01	9.15E-01	4.99E-01	9.18E-01
	ng/dscm ¹	7.91E-01	1.30E+00	7.49E-01	8.73E-01	5.25E-01	7.72E-01	4.23E-01	7.76E-01
	lb/hr	9.75E-08	1.51E-07	9.82E-08	1.07E-07	6.15E-08	9.16E-08	6.37E-08	9.58E-08
2,2',5,5'- Tetrachlorobiphenyl (PCB-52)	ng	0.364	2.19	0.330	1.70	0.206	0.749	0.235	0.825
	ng/dscm	8.51E-02	5.38E-01	7.32E-02	4.04E-01	5.07E-02	1.82E-01	4.56E-02	1.97E-01
	ng/dscm ¹	7.20E-02	4.53E-01	6.18E-02	3.41E-01	4.33E-02	1.53E-01	3.87E-02	1.66E-01
	lb/hr	8.88E-09	5.26E-08	8.10E-09	4.19E-08	5.07E-09	1.82E-08	5.82E-09	2.01E-08

TABLE 6-2 (CONTINUED)
POLYCHLORINATED BIPHENYLS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,3',4,4'- Tetrachlorobiphenyl (PCB-66)	ng	0.156	0.592	0.113	0.378	0.0934	0.195	0.0852	0.230
	ng/dscm	3.65E-02	1.45E-01	2.51E-02	8.99E-02	2.30E-02	4.73E-02	1.65E-02	5.48E-02
	ng/dscm ¹	3.09E-02	1.23E-01	2.11E-02	7.58E-02	1.96E-02	3.99E-02	1.40E-02	4.63E-02
	lb/hr	3.80E-09	1.42E-08	2.77E-09	9.32E-09	2.30E-09	4.74E-09	2.11E-09	5.61E-09
3,3',4,4'- Tetrachlorobiphenyl (PCB-77)	ng	0.120	<0.126	0.0650	0.0573	<0.126	<0.126	0.0309	<0.0930
	ng/dscm	2.81E-02	<3.09E-02	1.44E-02	1.36E-02	<3.10E-02	<3.06E-02	6.00E-03	<2.21E-02
	ng/dscm ¹	2.37E-02	<2.61E-02	1.22E-02	1.15E-02	<2.65E-02	<2.58E-02	5.09E-03	<1.87E-02
	lb/hr	2.93E-09	<3.03E-09	1.60E-09	1.41E-09	<3.10E-09	<3.06E-09	7.66E-10	<2.27E-09
3,4,4',5- Tetrachlorobiphenyl (PCB-81)	ng	<0.0960	<0.0960	<0.0960	<0.0960	<0.0960	<0.0960	<0.0960	<0.0960
	ng/dscm	<2.24E-02	<2.36E-02	<2.13E-02	<2.28E-02	<2.36E-02	<2.33E-02	<1.86E-02	<2.22E-02
	ng/dscm ¹	<1.90E-02	<1.99E-02	<1.80E-02	<1.93E-02	<2.02E-02	<1.96E-02	<1.58E-02	<1.88E-02
	lb/hr	<2.34E-09	<2.31E-09	<2.36E-09	<2.37E-09	<2.36E-09	<2.33E-09	<2.38E-09	<2.35E-09
2,2',4,5,5'- Pentachlorobiphenyl (PCB-101)	ng	0.149	3.45	0.114	2.75	0.0660	0.869	0.0917	1.07
	ng/dscm	3.48E-02	8.47E-01	2.53E-02	6.54E-01	1.62E-02	2.11E-01	1.78E-02	2.58E-01
	ng/dscm ¹	2.95E-02	7.14E-01	2.13E-02	5.52E-01	1.39E-02	1.78E-01	1.51E-02	2.18E-01
	lb/hr	3.63E-09	8.29E-08	2.80E-09	6.78E-08	1.62E-09	2.11E-08	2.27E-09	2.60E-08
2,3,3',4,4'- Pentachlorobiphenyl (PCB-105)	ng	0.0473	1.46	<0.102	1.55	<0.102	0.422	<0.102	<0.541
	ng/dscm	1.11E-02	3.58E-01	<2.26E-02	3.68E-01	<2.51E-02	1.02E-01	<1.98E-02	<1.30E-01
	ng/dscm ¹	9.36E-03	3.02E-01	<1.91E-02	3.11E-01	<2.14E-02	8.64E-02	<1.68E-02	<1.09E-01
	lb/hr	1.15E-09	3.51E-08	<2.50E-09	3.82E-08	<2.51E-09	1.03E-08	<2.53E-09	<1.32E-08
2,3,4,4',5- Pentachlorobiphenyl (PCB-114)	ng	0.0224	0.0811	<0.165	0.111	<0.165	0.0345	<0.165	<0.106
	ng/dscm	5.24E-03	1.99E-02	<3.66E-02	2.64E-02	<4.06E-02	8.37E-03	<3.20E-02	<2.42E-02
	ng/dscm ¹	4.43E-03	1.68E-02	<3.09E-02	2.23E-02	<3.47E-02	7.06E-03	<2.72E-02	<2.05E-02
	lb/hr	5.46E-10	1.95E-09	<4.05E-09	2.74E-09	<4.06E-09	8.39E-10	<4.09E-09	<2.61E-09

TABLE 6-2 (CONTINUED)
POLYCHLORINATED BIPHENYLS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,3',4,4',5-Pentachlorobiphenyl (PCB-118)	ng	0.0526	3.73	0.0599	3.95	0.0323	1.02	0.0394	1.27
	ng/dscm	1.23E-02	9.16E-01	1.33E-02	9.39E-01	7.94E-03	2.48E-01	7.65E-03	3.06E-01
	ng/dscm ¹	1.04E-02	7.72E-01	1.12E-02	7.93E-01	6.79E-03	2.09E-01	6.48E-03	2.58E-01
	lb/hr	1.28E-09	8.97E-08	1.47E-09	9.74E-08	7.95E-10	2.48E-08	9.76E-10	3.09E-08
2',3,4,4',5-Pentachlorobiphenyl (PCB-123)	ng	<0.171	0.0683	<0.171	0.0705	<0.171	<0.171	<0.171	<0.142
	ng/dscm	<4.00E-02	1.68E-02	<3.79E-02	1.68E-02	<4.21E-02	<4.15E-02	<3.32E-02	<3.26E-02
	ng/dscm ¹	<3.38E-02	1.41E-02	<3.20E-02	1.41E-02	<3.59E-02	<3.50E-02	<2.81E-02	<2.76E-02
	lb/hr	<4.17E-09	1.64E-09	<4.20E-09	1.74E-09	<4.21E-09	<4.16E-09	<4.24E-09	<3.48E-09
3,3',4,4',5-Pentachlorobiphenyl (PCB-126)	ng	<0.123	<0.123	<0.123	<0.123	<0.123	<0.123	<0.123	<0.123
	ng/dscm	<2.88E-02	<3.02E-02	<2.73E-02	<2.92E-02	<3.02E-02	<2.98E-02	<2.39E-02	<2.85E-02
	ng/dscm ¹	<2.43E-02	<2.55E-02	<2.30E-02	<2.47E-02	<2.58E-02	<2.52E-02	<2.02E-02	<2.41E-02
	lb/hr	<3.00E-09	<2.96E-09	<3.02E-09	<3.03E-09	<3.03E-09	<2.99E-09	<3.05E-09	<3.01E-09
2,2',3,3',4,4'-Hexachlorobiphenyl (PCB-128)	ng	<0.204	0.637	0.00628	0.574	<0.204	0.119	0.00655	<0.250
	ng/dscm	<4.77E-02	1.56E-01	1.39E-03	1.36E-01	<5.02E-02	2.89E-02	1.27E-03	<6.03E-02
	ng/dscm ¹	<4.04E-02	1.32E-01	1.18E-03	1.15E-01	<4.29E-02	2.44E-02	1.08E-03	<5.10E-02
	lb/hr	<4.98E-09	1.53E-08	1.54E-10	1.41E-08	<5.02E-09	2.89E-09	1.62E-10	<6.10E-09
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB-138)	ng	0.0783	4.66	0.0530	4.72	0.0316	1.18	0.0268	1.54
	ng/dscm	1.83E-02	1.14E+00	1.18E-02	1.12E+00	7.77E-03	2.86E-01	5.20E-03	3.71E-01
	ng/dscm ¹	1.55E-02	9.65E-01	9.92E-03	9.47E-01	6.64E-03	2.42E-01	4.41E-03	3.13E-01
	lb/hr	1.91E-09	1.12E-07	1.30E-09	1.16E-07	7.78E-10	2.87E-08	6.64E-10	3.74E-08
2,2',4,4',5,5'-Hexachlorobiphenyl (PCB-153)	ng	0.0883	3.28	0.0720	3.25	0.0328	0.723	0.0352	1.07
	ng/dscm	2.06E-02	8.05E-01	1.60E-02	7.73E-01	8.07E-03	1.75E-01	6.83E-03	2.58E-01
	ng/dscm ¹	1.75E-02	6.79E-01	1.35E-02	6.52E-01	6.89E-03	1.48E-01	5.79E-03	2.18E-01
	lb/hr	2.15E-09	7.88E-08	1.77E-09	8.01E-08	8.07E-10	1.76E-08	8.72E-10	2.60E-08

TABLE 6-2 (CONTINUED)
POLYCHLORINATED BIPHENYLS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,3,3',4,4',5'-Hexachlorobiphenyl (PCB-156)	ng	<0.255	0.187	<0.255	0.238	0.00520	0.0755	0.00712	<0.146
	ng/dscm	<5.96E-02	4.59E-02	<5.66E-02	5.66E-02	1.28E-03	1.83E-02	1.38E-03	<3.42E-02
	ng/dscm ¹	<5.04E-02	3.87E-02	<4.77E-02	4.78E-02	1.09E-03	1.55E-02	1.17E-03	<2.89E-02
	lb/hr	<6.22E-09	4.50E-09	<6.26E-09	5.87E-09	1.28E-10	1.84E-09	1.76E-10	<3.57E-09
2,3,3',4,4',5'-Hexachlorobiphenyl (PCB-157)	ng	<0.255	0.187	<0.255	0.238	0.00520	0.0755	0.00712	<0.146
	ng/dscm	<5.96E-02	4.59E-02	<5.66E-02	5.66E-02	1.28E-03	1.83E-02	1.38E-03	<3.42E-02
	ng/dscm ¹	<5.04E-02	3.87E-02	<4.77E-02	4.78E-02	1.09E-03	1.55E-02	1.17E-03	<2.89E-02
	lb/hr	<6.22E-09	4.50E-09	<6.26E-09	5.87E-09	1.28E-10	1.84E-09	1.76E-10	<3.57E-09
2,3',4,4',5,5'-Hexachlorobiphenyl (PCB-167)	ng	<0.180	0.0868	<0.180	0.0871	0.00421	0.0313	<0.180	<0.107
	ng/dscm	<4.21E-02	2.13E-02	<3.99E-02	2.07E-02	1.04E-03	7.60E-03	<3.49E-02	<2.39E-02
	ng/dscm ¹	<3.56E-02	1.80E-02	<3.37E-02	1.75E-02	8.84E-04	6.41E-03	<2.96E-02	<2.02E-02
	lb/hr	<4.39E-09	2.09E-09	<4.42E-09	2.15E-09	1.04E-10	7.61E-10	<4.46E-09	<2.62E-09
3,3',4,4',5,5'-Hexachlorobiphenyl (PCB-169)	ng	<0.123	<0.123	<0.123	<0.123	<0.123	<0.123	<0.123	<0.123
	ng/dscm	<2.88E-02	<3.02E-02	<2.73E-02	<2.92E-02	<3.02E-02	<2.98E-02	<2.39E-02	<2.85E-02
	ng/dscm ¹	<2.43E-02	<2.55E-02	<2.30E-02	<2.47E-02	<2.58E-02	<2.52E-02	<2.02E-02	<2.41E-02
	lb/hr	<3.00E-09	<2.96E-09	<3.02E-09	<3.03E-09	<3.03E-09	<2.99E-09	<3.05E-09	<3.01E-09
2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB-170)	ng	0.00865	0.0344	0.00427	0.0752	<0.132	0.0245	0.00859	<0.0411
	ng/dscm	2.02E-03	8.45E-03	9.47E-04	1.79E-02	<3.25E-02	5.95E-03	1.67E-03	<9.91E-03
	ng/dscm ¹	1.71E-03	7.12E-03	7.99E-04	1.51E-02	<2.77E-02	5.01E-03	1.41E-03	<8.41E-03
	lb/hr	2.11E-10	8.27E-10	1.05E-10	1.85E-09	<3.25E-09	5.96E-10	2.13E-10	<1.01E-09
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB-180)	ng	0.0200	0.155	0.00852	0.174	0.0149	0.0484	0.0150	0.0623
	ng/dscm	4.68E-03	3.81E-02	1.89E-03	4.14E-02	3.66E-03	1.17E-02	2.91E-03	1.49E-02
	ng/dscm ¹	3.96E-03	3.21E-02	1.59E-03	3.49E-02	3.13E-03	9.91E-03	2.47E-03	1.26E-02
	lb/hr	4.88E-10	3.73E-09	2.09E-10	4.29E-09	3.67E-10	1.18E-09	3.72E-10	1.52E-09

TABLE 6-2 (CONTINUED)
POLYCHLORINATED BIPHENYLS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB-187)	ng	0.0142	0.130	0.00404	0.132	0.0136	0.0455	<0.126	<0.0665
	ng/dscm	3.32E-03	3.19E-02	8.96E-04	3.14E-02	3.34E-03	1.10E-02	<2.45E-02	<1.52E-02
	ng/dscm ¹	2.81E-03	2.69E-02	7.56E-04	2.65E-02	2.86E-03	9.31E-03	<2.07E-02	<1.28E-02
	lb/hr	3.46E-10	3.12E-09	9.92E-11	3.25E-09	3.35E-10	1.11E-09	<3.12E-09	<1.63E-09
2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB-189)	ng	<0.147	<0.147	<0.147	<0.147	<0.147	<0.147	<0.147	<0.147
	ng/dscm	<3.44E-02	<3.61E-02	<3.26E-02	<3.49E-02	<3.61E-02	<3.57E-02	<2.85E-02	<3.41E-02
	ng/dscm ¹	<2.91E-02	<3.04E-02	<2.75E-02	<2.95E-02	<3.09E-02	<3.01E-02	<2.42E-02	<2.88E-02
	lb/hr	<3.58E-09	<3.53E-09	<3.61E-09	<3.62E-09	<3.62E-09	<3.57E-09	<3.64E-09	<3.60E-09
2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB-195)	ng	<0.159	<0.159	<0.159	<0.159	<0.159	<0.159	<0.159	<0.159
	ng/dscm	<3.72E-02	<3.90E-02	<3.53E-02	<3.78E-02	<3.91E-02	<3.86E-02	<3.09E-02	<3.68E-02
	ng/dscm ¹	<3.15E-02	<3.29E-02	<2.98E-02	<3.19E-02	<3.34E-02	<3.25E-02	<2.62E-02	<3.12E-02
	lb/hr	<3.88E-09	<3.82E-09	<3.90E-09	<3.92E-09	<3.91E-09	<3.86E-09	<3.94E-09	<3.89E-09
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB-206)	ng	<0.171	<0.171	<0.171	<0.171	<0.171	<0.171	<0.171	<0.171
	ng/dscm	<4.00E-02	<4.20E-02	<3.79E-02	<4.07E-02	<4.21E-02	<4.15E-02	<3.32E-02	<3.96E-02
	ng/dscm ¹	<3.38E-02	<3.54E-02	<3.20E-02	<3.43E-02	<3.59E-02	<3.50E-02	<2.81E-02	<3.35E-02
	lb/hr	<4.17E-09	<4.11E-09	<4.20E-09	<4.22E-09	<4.21E-09	<4.16E-09	<4.24E-09	<4.19E-09
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (PCB-209)	ng	0.0199	0.0454	0.00884	0.0250	0.00332	0.0117	0.138	0.0360
	ng/dscm	4.65E-03	1.11E-02	1.96E-03	5.94E-03	8.16E-04	2.84E-03	2.68E-02	7.73E-03
	ng/dscm ¹	3.94E-03	9.40E-03	1.65E-03	5.02E-03	6.98E-04	2.39E-03	2.27E-02	6.54E-03
	lb/hr	4.85E-10	1.09E-09	2.17E-10	6.16E-10	8.17E-11	2.84E-10	3.42E-09	8.85E-10

¹ Emission results are corrected to seven percent oxygen.

TABLE 6-3
HYDROCARBONS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Hydrocarbons (as propane)	ppmv dry	0.251	0.130	0.191	0.345	0.517	0.890	0.144	0.352
	ppmv dry ¹	0.213	0.109	0.161	0.291	0.441	0.751	0.122	0.298
	lb/hr	0.0481	0.0233	0.0388	0.0655	0.0949	0.164	0.0337	0.0668

¹ Emission results are corrected to seven percent oxygen.

TABLE 6-4
HYDROGEN CYANIDE RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Hydrogen cyanide	ppmv dry	2.42	2.60	2.60	2.50	2.48	2.64	2.62	2.54
	ppmv dry ¹	2.05	2.19	2.19	2.11	2.12	2.23	2.22	2.15
	lb/hr	0.284	0.286	0.324	0.291	0.279	0.298	0.377	0.293

¹ Emission results are corrected to seven percent oxygen.

TABLE 6-5
CARBON MONOXIDE AND OXYGEN RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Carbon monoxide	ppmv dry ¹	0.0195	0.0195	0.0195	0.0195	0.0820	0.0195	0.0195	0.0285
Oxygen	% vol dry	4.45	4.41	4.42	4.42	4.63	4.43	4.52	4.47

¹ Data represents the maximum hourly rolling average corrected to seven percent oxygen.

Appendix A: SITE-SPECIFIC TEST PLAN



BASF CORPORATION
GEISMAR, LOUISIANA

HAZARDOUS WASTE COMBUSTOR NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS

INFORMATION COLLECTION REQUEST SITE-SPECIFIC TEST PLAN FOR UTILITY BOILER No. 3

MAY 2024

Coterie ENVIRONMENTAL

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Appendix A:	Quality Assurance Project Plan
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1.0 INTRODUCTION

This site-specific test plan is being submitted by BASF Corporation (BASF) for a hazardous waste fired boiler located at BASF's Geismar, Louisiana, facility. This unit is designated as Utility Boiler No. 3. An emission test will be performed for Utility Boiler No. 3 in response to United States Environmental Protection Agency's (USEPA's) Clean Air Act Section 114 Information Collection Request (ICR), dated January 31, 2024, for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Hazardous Waste Combustors (HWCs) codified in Title 40 Code of Federal Regulations (CFR) Part 63 Subpart EEE.

This plan describes the testing to be conducted for Utility Boiler No. 3 for the purpose of collecting data on hazardous air pollutants (HAPs). In accordance with the ICR, this test plan will not be submitted for approval prior to the testing. It will be submitted as an appendix of the emission test report.

1.1 FACILITY OVERVIEW

The BASF facility is located adjacent to the Mississippi River on over 2,000 acres, most of which is located to the southwest of State Highway 30. The plant is approximately one mile southeast of Geismar, Louisiana, and 12 miles south of Baton Rouge, Louisiana. The facility is surrounded by land used primarily for industrial and agricultural purposes. The facility produces various chemical products and intermediates. At this time, the BASF Geismar facility is considered a major stationary source of HAPs as defined in Section 112(a) of the Clean Air Act as amended November 15, 1990.

The street address of the BASF Geismar facility is:

BASF Corporation
8404 River Road
Geismar, Louisiana 70734-0457

All correspondence should be directed to the following facility contact:

Clint Palermo
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8404 River Road
Geismar, Louisiana 70734-0457
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Email: clint.palermo@basf.com

1.2 HAZARDOUS WASTE COMBUSTOR OVERVIEW

The Geismar facility currently operates Utility Boiler No. 3 to provide energy recovery as steam while destroying hazardous waste streams generated in several production units. Utility Boiler No. 3 is fired on a mixture of natural gas, process vent gas, and liquid hazardous waste. The liquid hazardous wastes fired in Utility Boiler No. 3 are identified as mixed alcohols, polytetrahydrofuran (polyTHF) waste, and mixed amines. The main components of Utility Boiler No. 3 are a firebox, a superheater, an air preheater, a forced draft fan, and a stack.

1.3 TEST OVERVIEW

This emission test is designed to provide the information requested in USEPA's ICR. One test condition will be performed for the boiler. Utility Boiler No. 3 will be operated in a normal and representative manner during the emission test (*i.e.*, in a manner consistent with the boilers current operating parameter limits (OPLs)).

The ICR requires emission testing for the following pollutants:

- Polycyclic aromatic hydrocarbons (PAH);
- Polychlorinated biphenyls (PCB);
- Hydrocarbons (HC);
- Hydrogen fluoride (HF);
- Hydrogen bromide (HBr); and
- Hydrogen cyanide.

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

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

This emission test is being coordinated by BASF personnel, who will provide oversight of the boiler operations and the stack sampling activities during the test program. Coterie Environmental LLC (Coterie) is responsible for the test plan and report development. Alliance Technical Group, LLC, (ATG) will perform the stack sampling for the test program. ATG will be responsible for all stack gas and liquid waste samples collected during the test program, with oversight by BASF and Coterie. The stack gas and liquid waste samples will be sent to Eurofins Knoxville (Eurofins) for analysis. Additional information on

the project team roles and responsibilities is provided in the quality assurance project plan (QAPP) in Appendix A.

The emission test will be conducted during the week of May 6, 2024. The test will consist of seven replicate test runs. The testing is expected to take four days. The test report will be submitted by August 30, 2024.

1.4 TEST PLAN ORGANIZATION

This plan has been prepared in accordance with the ICR. The remaining sections of the plan provide the following information:

- Section 2.0 presents information on the boiler's feedstreams;
- Section 3.0 presents a detailed engineering description of Utility Boiler No. 3;
- Section 4.0 presents a description of the test operations;
- Section 5.0 presents a summary of the test sampling and analysis procedures; and
- Appendix A includes the QAPP.

2.0 FEEDSTREAM CHARACTERIZATION

Utility Boiler No. 3 is fired on a mixture of natural gas, process vent gas, and liquid hazardous waste. The liquid hazardous wastes fired in Utility Boiler No. 3 are identified as mixed alcohols, polyTHF waste, and mixed amines.

2.1 MIXED ALCOHOLS

The mixed alcohols are generated from the tetrahydrofuran (THF), carboxy, and diols production units. These wastes are characteristically hazardous for ignitability (D001) and typically consist of methanol, light-end hydrocarbons, isopropanol, and/or mixed alcohols. They are generally low in metals, chlorine, and ash content. Table 2-1 provides information on the typical characteristics of the mixed alcohols. The data provided on higher heating value and metals, chlorine, and ash contents is based upon quarterly waste analyses conducted in accordance with BASF's feedstream analysis plan. The higher heating value is provided in British thermal units per pound (Btu/lb), the metals, chlorine, and ash contents are provided in milligrams per kilogram (mg/kg), and the organic HAP concentrations are provided in percent by weight (% wt). Information provided on the organic HAPs is based on process knowledge and is intended to provide a general idea of the HAPs that may be present; it is not intended to be all encompassing. The mixed alcohols do not contain any PCBs based on process knowledge.

TABLE 2-1
MIXED ALCOHOLS

PARAMETER	UNITS	TYPICAL
Higher heating value	Btu/lb	2,200 – 12,500
Metals:		
Cadmium	mg/kg	<0.12
Chromium	mg/kg	<0.15
Lead	mg/kg	<0.6
Mercury	mg/kg	<0.01 – 0.13
Chlorine	mg/kg	<10 – 400
Ash	mg/kg	<100 – 500
Organic hazardous air pollutants:		
Methanol	% wt	0 – 98

2.2 POLYTETRAHYDROFURAN WASTE

The polyTHF waste is generated from the polyTHF production units. These wastes are characteristically hazardous for ignitability (D001) and typically consist of polyTHF, methyl acetate, and mixed alcohols. They are generally low in metals, chlorine, and ash content. Table 2-2 provides information on the typical characteristics of the polyTHF waste. The data provided on higher heating value and metals,

chlorine, and ash contents is based upon quarterly waste analyses conducted in accordance with BASF's feedstream analysis plan. The higher heating value is provided in Btu/lb, the metals, chlorine, and ash contents are provided in mg/kg, and the organic HAP concentrations are provided in % wt. Information provided on the organic HAPs is based on process knowledge and is intended to provide a general idea of the HAPs that may be present; it is not intended to be all encompassing. The polyTHF waste does not contain any PCBs based on process knowledge.

TABLE 2-2
POLYTETRAHYDROFURAN WASTE

PARAMETER	UNITS	TYPICAL
Higher heating value	Btu/lb	5,000 – 16,000
Metals:		
Cadmium	mg/kg	<0.12
Chromium	mg/kg	<0.15
Lead	mg/kg	<0.6
Mercury	mg/kg	<0.01 – 0.10
Chlorine	mg/kg	<10 – 400
Ash	mg/kg	<100 – 200
Organic hazardous air pollutants: Methanol	% wt	5 – 55

2.3 MIXED AMINES

The mixed amines are generated from the production of a variety of specialty amines. These wastes are characteristically hazardous for ignitability (D001) and also may carry the F003 code. They are generally low in metals, chlorine, and ash content. Table 2-3 provides information on the typical characteristics of the mixed amines. The data provided on higher heating value and metals, chlorine, and ash contents is based upon quarterly waste analyses conducted in accordance with BASF's feedstream analysis plan. The higher heating value is provided in Btu/lb, the metals, chlorine, and ash contents are provided in mg/kg, and the organic HAP concentrations are provided in % wt. Information provided on the organic HAPs is based on process knowledge and is intended to provide a general idea of the HAPs that may be present; it is not intended to be all encompassing. The mixed amines do not contain any PCBs based on process knowledge.

**TABLE 2-3
MIXED AMINES**

PARAMETER	UNITS	TYPICAL
Higher heating value	Btu/lb	4,000 – 14,000
Metals:		
Cadmium	mg/kg	<0.12
Chromium	mg/kg	<0.15 – 1.2
Lead	mg/kg	<0.6
Mercury	mg/kg	0.01 – 0.08
Chlorine	mg/kg	10 – 400
Ash	mg/kg	<100 – 300
Organic hazardous air pollutants:		
Aniline	% wt	0 – 10
Methanol	% wt	0 – 50

2.4 PROCESS VENT GAS

In addition to the liquid wastes, BASF feeds a non-hazardous process vent gas that originates from the acetylene process unit to Utility Boiler No. 3. Table 2-4 provides a characterization of this process vent gas, which is referred to as the acetylene off-gas (AO) vent. The data shown in the table is based upon information recorded by the facility’s process information management system (PIMS). The information in the table presents a “snap-shot” of the vent characterization. On average, the process vent gas is approximately 60 percent hydrogen, 30 percent carbon monoxide (CO), and between 5 and 10 percent by volume (% vol) of the remaining components indicated in the table. The AO vent is not expected to contain HWC NESHAP regulated metals or chlorine in greater than trace quantities.

**TABLE 2-4
ACETYLENE OFF-GAS VENT**

PARAMETER	UNITS	TYPICAL
Butane	% vol	0.0015
Carbon dioxide	% vol	1.5
Carbon monoxide	% vol	31
Ethane	% vol	0.0053
Ethylene	% vol	0.10
Hydrogen	% vol	58
Methane	% vol	7.8
Nitrogen	% vol	0.26
Oxygen	% vol	0.13
Propane	% vol	0.0015

2.5 NATURAL GAS

Natural gas is also fed to the boiler as the main fuel for combustion. The natural gas is not expected to contain any HWC NESHAP regulated constituents in greater than trace quantities.

2.6 WASTE CHOSEN FOR THE TEST

Utility Boiler No. 3 can only burn one hazardous waste stream at a time. Historical waste data was reviewed to determine which waste stream(s) would be fed during the testing. Table 2-5 presents the breakdown of hazardous wastes fed to Utility Boiler No. 3 in 2021, 2022, and 2023.

TABLE 2-5
HISTORICAL WASTE QUANTITIES BURNED IN UTILITY BOILER NO. 3

HAZARDOUS WASTE STREAM	PERCENT OF TOTAL BURNED ¹
Mixed alcohols	42%
Polytetrahydrofuran waste	12%
Mixed amines	46%

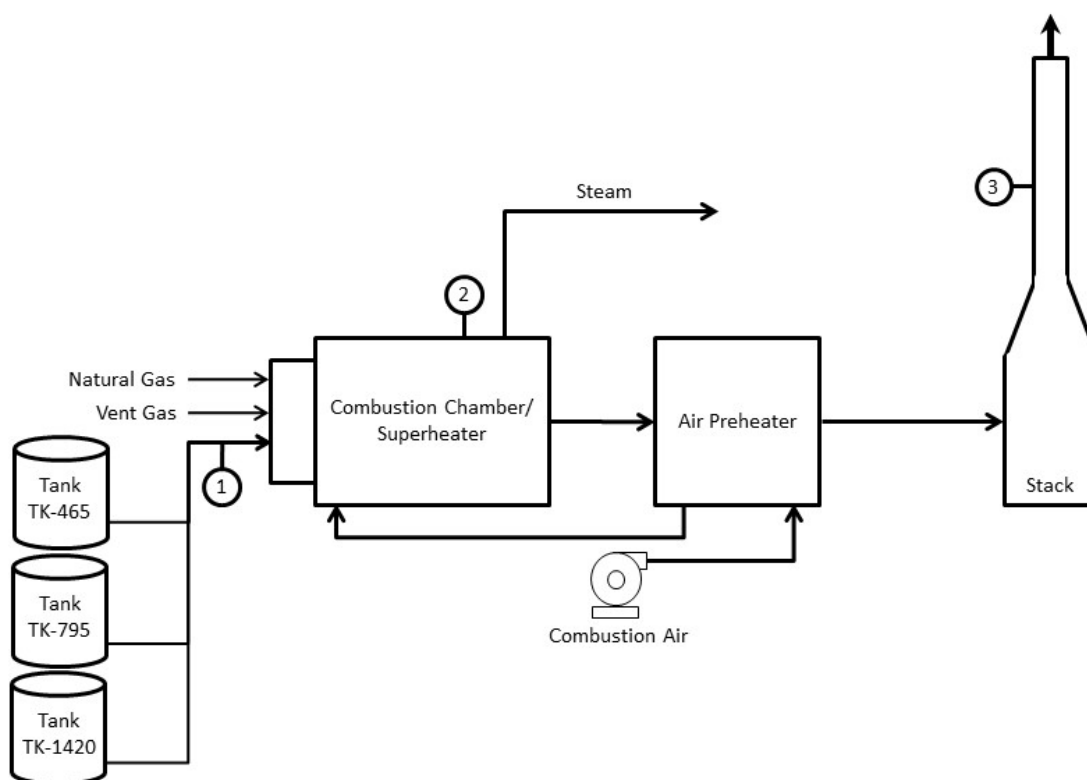
¹ Values represent the amount of each hazardous waste fed during 2021, 2022, and 2023.

The emission testing will require large quantities of waste. In order to ensure that enough waste will be available for the testing and also ensure that production demands can be met, BASF is proposing to feed both mixed alcohols and mixed amines during the testing. The waste streams cannot be fed simultaneously. Therefore, one waste stream will be chosen for each test run based on production demands on each day of testing.

3.0 ENGINEERING DESCRIPTION

BASF has been operating Utility Boiler No. 3 since 1958. The main components of Utility Boiler No. 3 are a firebox, a superheater, an air preheater, a forced draft fan, and a stack. A schematic of Utility Boiler No. 3 is provided in Figure 3-1.

FIGURE 3-1
UTILITY BOILER NO. 3 PROCESS SCHEMATIC



3.1 LIQUID WASTE STORAGE AND DELIVERY SYSTEMS

The mixed alcohols, polyTHF, and mixed amines that are fed to Utility Boiler No. 3 are generated from various production processes and arrive at the steam plant directly from the onsite plant processes that generate them. The mixed alcohols are fed to the boiler from Tank TK-465. The polyTHF waste is fed to the boiler from Tank TK-795. The mixed amines are fed to the boiler from Tank TK-1420.

3.2 BOILER

The boiler was manufactured by Babcock & Wilcox and is designed to burn natural gas, liquid fuels, and vent gases. The boiler has a design thermal capacity of 285 million British thermal units per hour (MMBtu/hr) and is capable of producing a maximum of 205,000 pounds per hour (lb/hr) of 650 pounds

per square inch gauge (psig) steam at 750 degrees Fahrenheit (°F). The boiler has four burners. Each burner is designed to fire natural gas, process vent gas, liquid waste, or any combination of fuels.

The heat from the combustion is transferred to the boiler tubes to facilitate the production of steam from incoming feed water. The boiler is equipped with a superheater. Steam is generated in the boiler/superheater section, and the air preheater section of the boiler is used to remove additional heat from the combustion gases to preheat the boiler combustion air. Steam is generated using various boiler tubes ("D" tubes, furnace rear wall tubes, division wall tubes, boiler back tubes and boiler sidewall tubes). Following the air preheater section, the flue gases are discharged to the atmosphere via the stack.

3.3 FORCED DRAFT FAN

Combustion air is supplied to the boiler through a forced draft fan. The fan is the prime mover and provides the necessary motive force to overcome the pressure drop through the entire boiler system.

3.4 EXHAUST STACK

The stack of Utility Boiler No. 3 is approximately 75 feet above grade. The stack has a rectangular cross-section. The sampling locations for the stack are approximately 68 feet above ground. Five ports are provided, as required to perform isokinetic sampling in a rectangular duct.

4.0 TEST OPERATIONS

BASF intends to perform one test condition to collect the data requested in the ICR. This section of the plan establishes the boiler operations that will be demonstrated during the testing. In addition, the amount of waste needed for testing, the monitoring data to be collected during testing, and a schedule for the testing are presented here.

4.1 NORMAL OPERATING CONDITIONS

The ICR requested that Utility Boiler No. 3 be operated in a normal and representative manner during the emission test. To establish the operating conditions for the test, operating data from April 2023 through March 2024 was reviewed. Data for the following operating parameters was reviewed:

- Combustion chamber temperature;
- Stack gas flow rate; and
- Total hazardous waste feed rate.

Table 4-1 presents the average value and the OPL for each parameter. The combustion chamber temperature is monitored in °F, the stack gas flow rate is monitored in thousand pounds per hour (klb/hr), and the total hazardous waste feed rate is monitored in gallons per minute (gpm).

TABLE 4-1
AVERAGE VALUES FOR OPERATING PARAMETERS

PARAMETER	UNITS	AVERAGE VALUE ¹	OPERATING PARAMETER LIMIT	LIMIT TYPE
Combustion chamber temperature	°F	1,736	1,387	Minimum
Stack gas flow rate	klb/hr	129	222	Maximum
Total hazardous waste feed rate	gpm	10.9	23.3	Maximum

¹ Values represent the averages of hazardous waste operating data collected for April 2023 through March 2024.

4.2 TEST CONDITION

The test condition is designed to demonstrate operations of Utility Boiler No. 3 at normal and representative conditions. The target conditions were set within the averages presented in Table 4-1 and the maximum or minimum OPL, as appropriate. The process vent gas feed rate and the natural gas feed rate, which are both monitored in thousand standard cubic feet per hour (kscfh), will be allowed to vary as needed to achieve the other target conditions. All operating conditions presented in this plan are calculated values; the actual conditions observed during the test may vary slightly from these values.

A summary of the target operating conditions is provided in Table 4-2.

TABLE 4-2
TARGET TEST CONDITION

OPERATING PARAMETER	UNITS	TARGETS	OPERATING PARAMETER LIMIT
Combustion chamber temperature	°F	1,750	1,387
Stack gas flow rate	klb/hr	150	222
Total hazardous waste feed rate	gpm	15	23.3
Acetylene off-gas vent feed rate	kscfh	Variable	---
Natural gas feed rate	kscfh	Variable	---

4.3 TEST MATERIALS AND QUANTITIES

Table 4-3 summarizes the quantity of materials required to conduct the testing. Seven runs will be carried out for the test condition. Each test run will require approximately 4.5 hours. A maximum of two runs will be performed per day. An additional 30 minutes of run time will be required for each day of testing to establish the steady state conditions before the start of the test runs, and approximately 60 minutes will be required between consecutive test runs. Therefore, for the purpose of calculating test quantities, a total of 36.5 hours has been used. We have also added approximately 40 percent to each total to allow for unforeseen delays.

TABLE 4-3
TEST MATERIAL QUANTITIES

MATERIAL	UNITS	QUANTITY
Mixed alcohols and mixed amines	gallons	46,000

4.4 TEST MONITORING

Operating data will be reported for each test run. Table 4-4 presents the operating data that will be reported for the testing. All one-minute average values will be reported for each parameter for each run. Run averages, minimums, and maximums will be determined.

TABLE 4-4
MONITORED AND REPORTED OPERATING PARAMETERS

INSTRUMENT TAG NUMBER	DESCRIPTION
TI-3732	Combustion chamber temperature
FI-130010	Stack gas flow rate
FI-3704	Steam production rate
FIT-3334	Total hazardous waste feed rate
FI-3712	Acetylene off-gas vent feed rate
FI-3706	Natural gas feed rate

In addition to the operating parameters listed in Table 4-4, BASF will also report one-minute average and hourly rolling average data for the oxygen-corrected CO emission concentration from the boiler's continuous emissions monitoring systems (CEMS).

4.5 TEST SCHEDULE

The sampling effort will require one day for setup and four days for testing. During setup, sampling equipment and instruments will be prepared and calibrated, supplies will be brought onsite, and sampling locations will be prepared. The seven test runs will be performed over the four testing days. Although the onsite activities will dictate the actual timing, a preliminary schedule is presented in Table 4-5.

TABLE 4-5
TEST SCHEDULE

DAY	START	STOP	ACTIVITY
1	---	---	Setup of sampling equipment and pre-test meetings
2	08:00	08:30	Begin feeding designated materials at target rates and establish steady-state operating conditions
	08:30	09:30	Perform cyclonic flow check and preliminary flow traverse
	09:30	14:00	Run 1
	14:00	15:00	Set-up of sampling equipment for Run 2
	15:00	19:30	Run 2
3	08:00	08:30	Begin feeding designated materials at target rates, establish steady-state operating conditions, and setup sampling equipment for Run 3
	08:30	13:00	Run 3
	13:00	14:00	Set-up of sampling equipment for Run 4
	14:00	18:30	Run 4

TABLE 4-5 (CONTINUED)
TEST SCHEDULE

DAY	START	STOP	ACTIVITY
4	08:00	08:30	Begin feeding designated materials at target rates, establish steady-state operating conditions, and setup sampling equipment for Run 5
	08:30	13:00	Run 5
	13:00	14:00	Set-up of sampling equipment for Run 6
	14:00	18:30	Run 6
5	08:00	08:30	Begin feeding designated materials at target rates, establish steady-state operating conditions, and setup sampling equipment for Run 7
	08:30	13:00	Run 7
	13:00	- - -	Break down sampling equipment

5.0 SAMPLING AND ANALYSIS

The test condition will consist of seven replicate test runs. For each run, samples will be collected using procedures described in the QAPP found in Appendix A. Since most of the proposed methods are standard reference methods, only brief descriptions are presented. Sample holding times will be consistent with the analytical requirements for the methods used.

5.1 LIQUID WASTE SAMPLING AND ANALYSIS

Liquid waste samples will be collected during each run. The waste sampling locations will be clearly labeled during the test. Table 5-1 summarizes the liquid waste sampling and analysis procedures.

TABLE 5-1
LIQUID WASTE SAMPLING AND ANALYSIS

WASTE	SAMPLING METHOD	SAMPLING AMOUNT/ FREQUENCY	ANALYTICAL PARAMETER	ANALYTICAL METHOD ¹
Mixed alcohols or mixed amines	Tap sampling	Approximately 150 mL into two separate bottles at beginning, middle, and end of each test run	Density	ASTM Method D1475
			Higher heating value	ASTM Method D240

¹ ASTM refers to ASTM International.

BASF personnel will collect the liquid waste samples from a tap located on the feed line. The tap will be flushed initially (allowed to flow briefly) before the samples are collected. Samples will be collected at the beginning, middle, and end of each test run. At each sampling event, approximately 150 milliliters (mL) of the waste stream will be collected into two separate bottles. At the end of the run, each sample bottle will have approximately 450 mL of sample. One sample will be sent to the laboratory for analysis, and one sample will be sent to the laboratory as a backup.

The liquid waste samples will be analyzed to characterize the waste stream. Density and higher heating value of the liquid waste will be determined for each test run.

5.2 PROCESS VENT GAS SAMPLING AND ANALYSIS

The process vent gas will not be sampled and analyzed during the test. Process knowledge is used to characterize the process vent gas. Process vent gas characterization information is provided in Section 2.4.

5.3 NATURAL GAS SAMPLING AND ANALYSIS

The natural gas will not be sampled and analyzed during the test. The natural gas is not expected to contain any regulated constituents in greater than trace quantities.

5.4 STACK GAS SAMPLING AND ANALYSIS

The stack gas will be monitored for HC emissions and sampled for PAH, PCB, and hydrogen cyanide emissions during the test. In addition, the facility's CEMS continuously monitor the stack gas CO concentration. The following monitoring/sampling methods will be used:

- USEPA Methods 1, 2, 3A, and 4 for determination of stack sampling traverse points, gas flow rate, composition, and moisture content;
- USEPA Method 25A, a portable CEMS operated by the stack sampling contractor, to monitor the concentrations of HC in the stack gas;
- USEPA Method 23 for measurement of PAH and PCB emissions;
- USEPA Method 320 for measurement of hydrogen cyanide emissions; and
- The facility's CEMS to monitor the concentrations of CO and oxygen in the stack gas.

Table 5-2 summarizes the stack gas samples to be taken, the parameters to be measured, and the frequency of measurement.

TABLE 5-2
STACK GAS SAMPLING AND ANALYSIS

SAMPLING METHOD ¹	SAMPLING DURATION	ANALYTICAL PARAMETER	ANALYTICAL METHOD ¹
USEPA Methods 1, 2, 3A, and 4	Not applicable	Traverse points, stack flow, composition, and moisture	Not applicable
USEPA Method 25A (Portable CEMS)	Continuous	Hydrocarbons	USEPA Method 25A (Portable CEMS)
USEPA Method 23	240 minutes (minimum)	Polycyclic aromatic hydrocarbons and polychlorinated biphenyls	USEPA Method 23
USEPA Method 320	60 minutes (minimum)	Hydrogen cyanide	USEPA Method 320
Facility CEMS (USEPA Performance Specification 4B)	Continuous	Carbon monoxide and oxygen	Facility CEMS (USEPA Performance Specification 4B)

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

Appendix A: QUALITY ASSURANCE PROJECT PLAN



We create chemistry

BASF CORPORATION

GEISMAR, LOUISIANA

HAZARDOUS WASTE COMBUSTOR NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS

INFORMATION COLLECTION REQUEST QUALITY ASSURANCE PROJECT PLAN FOR UTILITY BOILER No. 3

MAY 2024

Coterie ENVIRONMENTAL

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1.0 INTRODUCTION

This quality assurance project plan (QAPP) is being submitted by BASF Corporation (BASF) for a hazardous waste fired boiler located at BASF's Geismar, Louisiana, facility. This unit is designated as Utility Boiler No. 3. An emission test will be performed for Utility Boiler No. 3 in response to United States Environmental Protection Agency's (USEPA's) Clean Air Act Section 114 Information Collection Request (ICR), dated January 31, 2024, for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Hazardous Waste Combustors (HWCs) codified in Title 40 Code of Federal Regulations (CFR) Part 63 Subpart EEE. This QAPP describes the quality assurance (QA) and quality control (QC) program associated with the ICR testing to be conducted for Utility Boiler No. 3. In accordance with the ICR, this QAPP will not be submitted for approval prior to the testing. It will be submitted as an appendix of the emission test report

1.1 FACILITY OVERVIEW

The BASF facility is located adjacent to the Mississippi River on over 2,000 acres, most of which is located to the southwest of State Highway 30. The plant is approximately one mile southeast of Geismar, Louisiana, and 12 miles south of Baton Rouge, Louisiana. The facility is surrounded by land used primarily for industrial and agricultural purposes. The facility produces various chemical products and intermediates. At this time, the BASF Geismar facility is considered a major stationary source of HAPs as defined in Section 112(a) of the Clean Air Act as amended November 15, 1990.

The street address of the BASF Geismar facility is:

BASF Corporation
8404 River Road
Geismar, Louisiana 70734-0457

All correspondence should be directed to the following facility contact:

Clint Palermo
Sr. Environmental Specialist
BASF Corporation
8404 River Road
Geismar, Louisiana 70734-0457
Phone: (225) 339-2636
Email: clint.palermo@basf.com

1.2 HAZARDOUS WASTE COMBUSTOR OVERVIEW

The Geismar facility currently operates Utility Boiler No. 3 to provide energy recovery as steam while destroying hazardous waste streams generated in several production units. Utility Boiler No. 3 is fired on a mixture of natural gas, process vent gas, and liquid hazardous waste. The liquid hazardous wastes fired in Utility Boiler No. 3 are identified as mixed alcohols, polytetrahydrofuran (polyTHF) waste, and mixed amines. The main components of Utility Boiler No. 3 are a firebox, a superheater, an air preheater, a forced draft fan, and a stack. More information regarding the design and operation of Utility Boiler No. 3 can be found in Section 3.0 of the site-specific test plan.

1.3 TEST OVERVIEW

The emission test is designed to provide the information requested in USEPA's ICR. One test condition will be performed for the boiler. Utility Boiler No. 3 will be operated in a normal and representative manner during the emission test (*i.e.*, in a manner consistent with the boiler's current operating parameter limits (OPLs)).

The ICR emission testing will include the following pollutants:

- Polycyclic aromatic hydrocarbons (PAH);
- Polychlorinated biphenyls (PCB);
- Hydrocarbons (HC); and
- Hydrogen cyanide.

The hazardous liquid waste will also be analyzed for higher heating value and density for each test run.

This emission test is being coordinated by BASF personnel, who will provide oversight of the boiler operations and the stack sampling activities during the test program. Coterie Environmental LLC (Coterie) is responsible for the test plan and report development. Alliance Technical Group, LLC, (ATG) will perform the stack sampling for the test program. ATG will be responsible for all stack gas and liquid waste samples collected during the test program, with oversight by BASF and Coterie. The stack gas and liquid waste samples will be sent to Eurofins Knoxville (Eurofins) for analysis.

1.4 QUALITY ASSURANCE PROJECT PLAN ORGANIZATION

This QAPP has been prepared following the USEPA document entitled *Preparation Aids for the Development of Category I Quality Assurance Project Plan*. The QAPP will serve as an essential guidance by which the emission test will be performed. The QAPP defines all aspects of QA/QC procedures and establishes sampling and analytical quality indicators that will demonstrate achievement of the test objectives. Additionally, this QAPP defines precision and accuracy criteria for the required measurements that will be used to demonstrate that all associated test data is of sufficient quality to satisfy the requirements of the USEPA's ICR. The remaining sections of the QAPP provide the following information:

-
- Section 2.0 presents information on the emission test project team;
 - Section 3.0 describes the emission test sampling procedures;
 - Section 4.0 presents sample handling and documentation information;
 - Section 5.0 discusses the emission test analytical procedures;
 - Section 6.0 presents the emission test data quality objectives;
 - Section 7.0 discusses calibration procedures and preventative maintenance;
 - Section 8.0 discusses data reduction, validation, and reporting procedures;
 - Section 9.0 discusses QA reports;
 - Section 10.0 includes a list of reference documents for the QAPP; and
 - Attachment A provides a list of analytes for the testing.

2.0 ORGANIZATION OF PERSONNEL, RESPONSIBILITIES, AND QUALIFICATIONS

BASF and their contractors will have specific and unique duties in the implementation of the ICR emission test project. The project team duties are summarized below. A project organization flow chart is provided in Figure 2-1. The contractors selected for this project have established training programs that identify, ensure, and document that the personnel assigned to their tasks have appropriate knowledge, skills, training, and certifications to perform their duties. Any key personnel that become unavailable will be replaced by equally qualified personnel prior to test mobilization. This QAPP will be distributed to key project personnel for review prior to the emission test.

BASF, through the Emission Test Manager and operations crew, will:

- Procure and prepare waste feeds;
- Operate Utility Boiler No. 3 at the designated conditions;
- Collect waste samples; and
- Report all feed rates and Utility Boiler No. 3 process parameters.

Coterie, through the Offsite Project Coordinator, will:

- Prepare the sit-specific test plan and QAPP;
- Provide oversight for the project;
- Perform a detailed QA review of all analytical results; and
- Prepare the final report.

ATG, through the Stack Testing Director and stack sampling field team, will:

- Perform stack gas sampling;
- Implement the QA program for the stack sampling and analysis;
- Provide custody of all samples generated by the test efforts;
- Transport the samples to the laboratories for analysis; and
- Prepare the stack sampling report and supporting documentation.

The laboratory will:

- Perform sample analyses;
- Perform method and QAPP specified QA/QC; and
- Provide a complete laboratory report with a detailed case narrative.

2.1 EMISSION TEST MANAGER

Clint Palermo will serve as the BASF Emission Test Manager. Mr. Palermo will be responsible for directing BASF personnel in the operations of Utility Boiler No. 3 during the testing. He will also ensure that all necessary unit operating data is collected during the test.

2.2 OFFSITE PROJECT COORDINATOR

Heather McHale of Coterie will provide offsite coordination of the test program. Ms. McHale will ensure that all test team members communicate throughout the test program and that the objectives of the test plan are met. As the Offsite Project Coordinator, Ms. McHale will also ensure that all analytical data is validated and that all deviations are adequately addressed in the appropriate sections of the test report.

2.3 STACK TESTING DIRECTOR

Jason LaCroix of ATG will serve as the Stack Testing Director for the emission test. Mr. LaCroix will be responsible for technical supervision of the project, data interpretation, overall report preparation, and coordination with all laboratories and outside service providers. Mr. LaCroix or a project manager who reports to Mr. LaCroix will oversee the field crew during the testing, will be responsible for all aspects of sample collection, and will report any deviations immediately to the Emission Test Manager and Offsite Project Coordinator. The Stack Testing Director may or may not be onsite during the emission test.

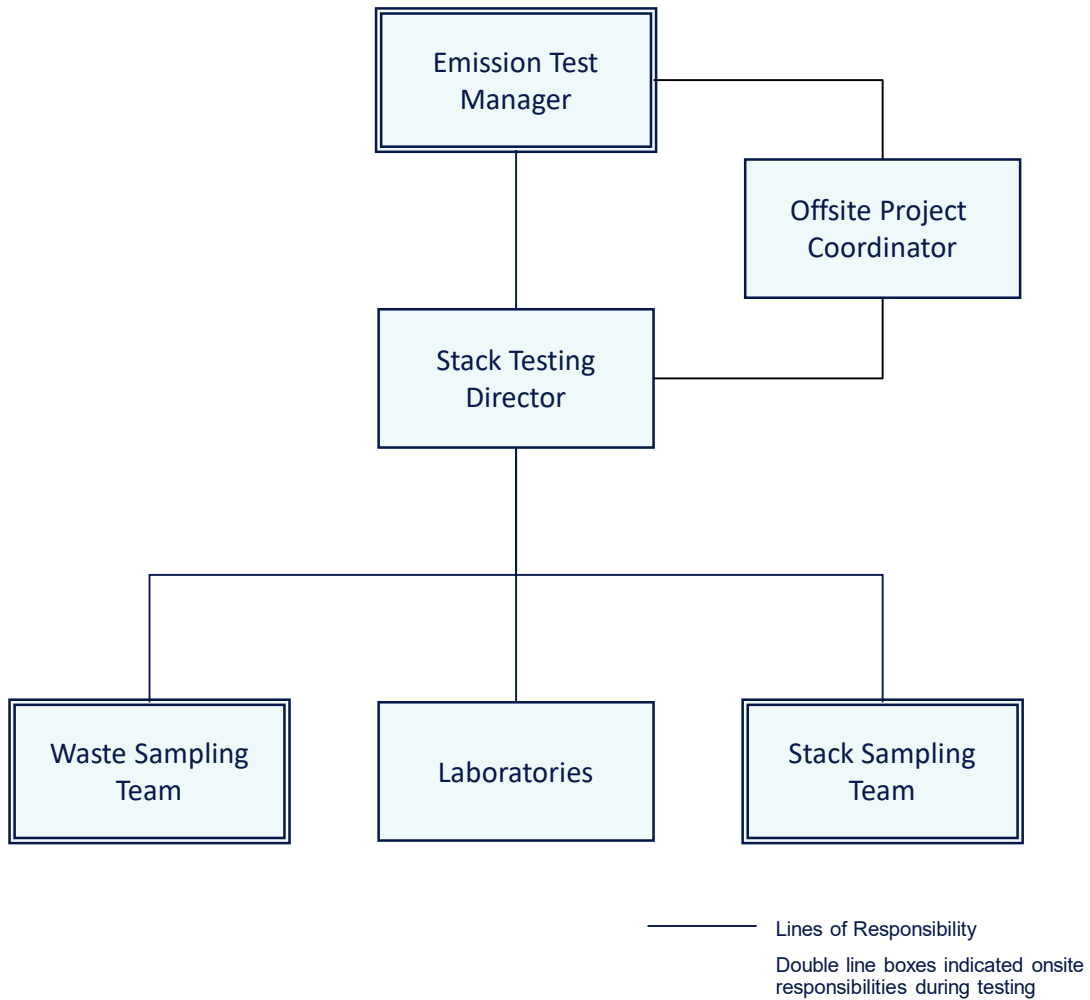
2.4 FIELD TEAM

The field team will be made up of BASF and contractor personnel. BASF operators will be responsible for collecting all waste samples. The stack sampling field team will collect all stack gas samples and will take custody of the waste samples from the operators at the conclusion of the testing.

2.5 LABORATORY

Eurofins will be the subcontracted laboratory. The point of contact for the laboratory is Courtney Adkins. The laboratory is well experienced in conducting analyses per the methods described in this QAPP. Prior to test execution, the QAPP will be submitted to the laboratory for review and understanding of their project responsibilities. The laboratory representative will sign the appropriate QAPP signature page. The laboratory representative will be responsible for ensuring that the laboratory follows all analytical methods specified in the QAPP in accordance with their standard operating procedure (SOPs), that a detailed case narrative is prepared addressing all analytical deviations, and that a complete laboratory report is provided.

FIGURE 2-1
PROJECT ORGANIZATION



3.0 SAMPLING PROCEDURES

This section provides descriptions of the waste and stack gas sampling procedures to be performed during the test.

3.1 LIQUID WASTE SAMPLING

Liquid waste samples will be collected during each run. The waste sampling locations will be clearly labeled during the test. Table 3-1 summarizes the liquid waste sampling procedures.

TABLE 3-1
LIQUID WASTE SAMPLING

WASTE	SAMPLING METHOD	SAMPLING AMOUNT/ FREQUENCY
Mixed alcohols or mixed amines	Tap sampling	Approximately 150 mL into two separate bottles at beginning, middle, and end of each test run

BASF personnel will collect the liquid waste samples from a tap located on the feed line. The tap will be flushed initially (allowed to flow briefly) before the samples are collected. At each sampling event, approximately 150 milliliters (mL) of the waste stream will be collected into two separate bottles. At the end of the run, each sample bottle will have approximately 450 mL of sample. One sample will be sent to the laboratory for analysis, and one sample will be sent to the laboratory as a backup.

3.2 PROCESS VENT GAS SAMPLING

The process vent gas will not be sampled and analyzed during the test. Process knowledge is used to characterize the process vent gas.

3.3 NATURAL GAS SAMPLING

The natural gas will not be sampled and analyzed during the test. The natural gas is not expected to contain any regulated constituents in greater than trace quantities.

3.4 STACK GAS SAMPLING

The stack gas sampling will follow the methods documented in 40 CFR Part 60 Appendix A (USEPA Methods). Brief descriptions of these methods are provided in this section. Any modifications to prescribed USEPA methods are outlined in the sampling procedure descriptions below. Table 3-2 summarizes the sampling procedures to be used during the test for collection of stack gas samples.

**TABLE 3-2
STACK GAS SAMPLING**

PARAMETER	SAMPLING METHOD ¹	SAMPLE FRACTION(S)
Traverse points, gas flow rate, composition, and moisture content	USEPA Methods 1, 2, 3A, and 4	Not applicable
Polycyclic aromatic hydrocarbons and polychlorinated biphenyls	USEPA Method 23	Filter
		Front-half and back-half acetone and toluene rinses
		XAD-2 resin
		Deionized water impingers contents
		Deionized water impingers acetone and toluene rinses
Hydrocarbons	USEPA Method 25A	Not applicable
Hydrogen cyanide	USEPA Method 320	Not applicable
Carbon monoxide and oxygen	Facility CEMS (USEPA Performance Specification 4B)	Not applicable

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

Adequate sampling ports are available to support the sampling. The gas flow rate, composition, and moisture content data will be collected concurrent with the isokinetic sampling train.

3.4.1 SAMPLING POINT DETERMINATION – USEPA METHOD 1

The number and location of the stack gas sampling points will be determined according to the procedures outlined in USEPA Method 1. Verification of absence of cyclonic flow will be conducted prior to testing by following the procedure described in USEPA Method 1. The cyclonic flow check will be performed once for the test.

3.4.2 FLUE GAS VELOCITY AND VOLUMETRIC FLOW RATE – USEPA METHOD 2

The flue gas velocity and volumetric flow rate will be determined according to the procedures outlined in USEPA Method 2. Velocity measurements will be made using Type S pitot tubes conforming to the geometric specifications outlined in USEPA Method 2. Differential pressures will be measured with fluid manometers. Effluent gas temperatures will be measured with thermocouples equipped with digital readouts.

3.4.3 FLUE GAS COMPOSITION AND MOLECULAR WEIGHT – USEPA METHOD 3A

The composition of the bulk gas and the gas molecular weight at the stack (concentrations of carbon dioxide and oxygen) will be determined by USEPA Method 3A. The stack sampling contractor will supply oxygen and carbon dioxide analyzers and all other associated equipment. The analyzers will be calibrated according to the procedures outlined in the method. A continuous sample of stack gas will be

withdrawn via a sample probe. The gas will be filtered and passed through a conditioning system for removal of particulates and moisture prior to being sent to the analyzer.

The calculated molecular weight will be used for all isokinetic calculations. The measured oxygen concentration will also be used to correct emission concentrations to seven percent oxygen.

3.4.4 FLUE GAS MOISTURE CONTENT – USEPA METHOD 4

The flue gas moisture content will be determined in conjunction with each isokinetic train according to the sampling and analytical procedures outlined in USEPA Method 4. The impingers will be connected in series and will contain reagents as described for each sampling method. The impingers will be housed in an ice bath to ensure condensation of the moisture from the flue gas stream. Any moisture that is not condensed in the impingers is captured in the silica gel. Moisture content is determined by weighing the various sample fractions.

3.4.5 POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS – USEPA METHOD 23

The sampling procedures outlined in USEPA Method 23 will be used to determine the PAH and PCB concentrations in the stack gas during the emission test. The specific list of analytes is provided in Attachment A. The sampling train will consist of a glass fiber filter and coil condenser followed by a XAD-2 resin trap and a series of impingers. A total of four impingers will be used in the sampling train. The first of these impingers will be empty and will be followed by two impingers each containing 100 mL of reagent water. These impingers will be followed by an impinger containing approximately 200 to 300 grams of silica gel. A recirculating pump will also be connected to the sampling train to continuously circulate cold water to the condenser and resin trap to maintain the resin trap temperature below 68 degrees Fahrenheit (°F). A diagram of the sampling train is presented in Figure 3-1.

In preparation for the sampling event, several labeled sampling standards will be introduced inside the resin to monitor sampling efficiencies as well as to provide insights to the sample preservation and storage conditions. Upon preparation of the spiked resin traps, a separate fraction of resin from the same batch will be spiked the same day using the same solutions used in the field sampling modules and will be refrigerated in the laboratory until the return of the field samples. At such time, the control resin will become the laboratory method blank.

All sampling train components will be constructed of materials specified in the methods and will be cleaned and prepared per method specifications prior to testing. The probe and filter temperatures will be maintained between 223 and 273°F. The sampling runs will be performed within ± 10 percent of isokinetic conditions. A minimum of 141 dry standard cubic feet (dscf) of sample gas will be collected over a minimum of 240 minutes.

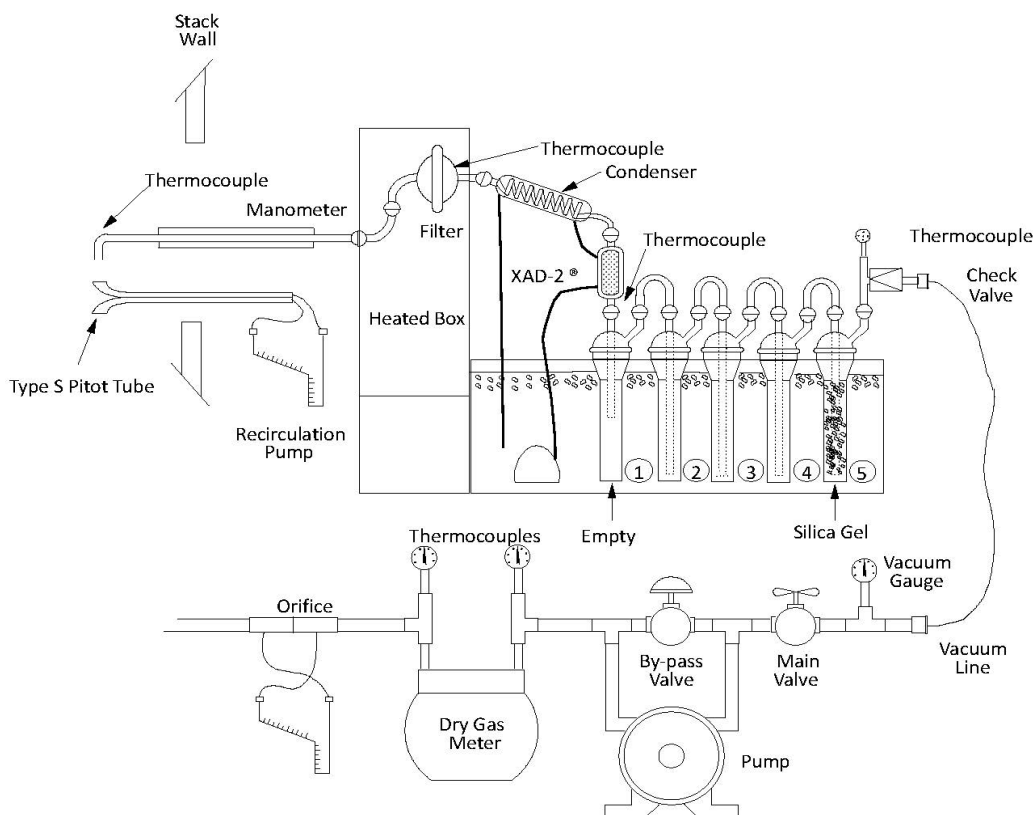
USEPA Method 23 Section 6.1.7 requires that the condenser to be oriented at an angle to cause moisture to flow down to the XAD adsorbent module to facilitate condensate drainage. Glassware with

this configuration is not currently available from a national supplier utilizing a large enough condenser to meet the temperature specifications of the method. Until equipment is widely available, the horizontal or vertical condenser configuration from traditional USEPA Method 23 will be utilized.

The recovery of the sampling train will result in the sample fractions listed in Table 3-2. The sampling train will be recovered according to the procedures specified in the method with one exception. USEPA Method 23 Section 8.2.9 specifies that the impinger condensate and solvent rinses are to be collected in a single container (No. 3). Due to analytical method development constraints of the subcontracted laboratory, it will be necessary to recover the sample fractions separately: impinger condensate (Container No. 3A) and solvent rinses (Container No. 3B). The filter will be shipped in a Petri dish, and all rinses will be collected in amber glass jars. The XAD-2 resin will be wrapped and shipped in the glass trap.

All sample fractions will be combined during extraction. The sample will be spiked with extraction standards. The sample will be analyzed for PAH and PCB by USEPA Method 23 (high resolution gas chromatograph/high resolution mass spectroscopy).

FIGURE 3-1
USEPA METHOD 23 SAMPLING TRAIN



3.4.6 HYDROCARBONS – USEPA METHOD 25A

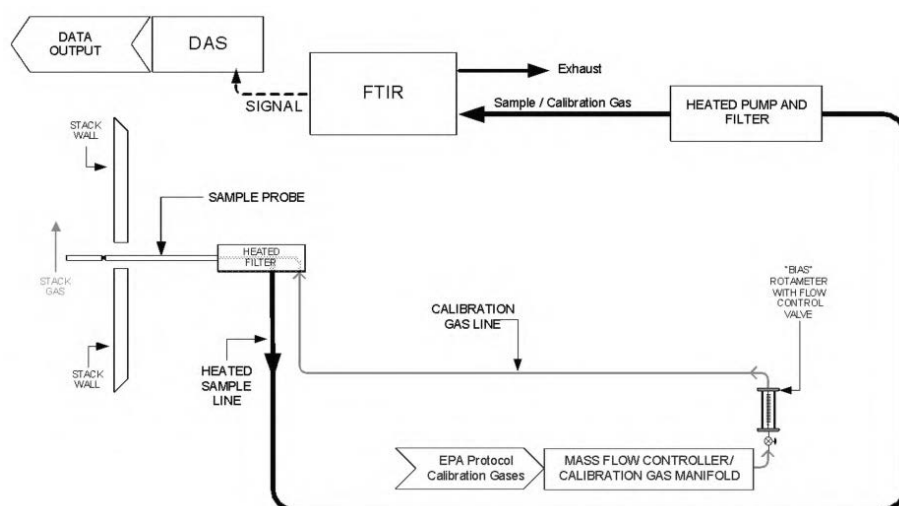
The procedures outlined in USEPA Method 25A will be used to measure the concentration of HC in the stack gas during the test. The stack sampling contractor will supply an HC analyzer with a span calibrated to match the anticipated HC concentration of the stack gas. Sampling will be concurrent with the USEPA Method 23 testing.

A continuous sample of stack gas will be withdrawn via a sample probe. The sampled gas will be filtered for removal of particulates prior to being sent to the analyzer. All parts of the sampling system and the analyzer will be heated to a temperature of at least 250°F. The wet-basis HC concentration will be reported in parts per million by volume (ppmv), as propane.

3.4.7 HYDROGEN CYANIDE – USEPA METHOD 320

The procedures outlined in USEPA Method 320 will be used to measure the concentration of hydrogen cyanide in the stack gas during the test. The stack gas will be extracted at a constant rate through a heated probe, heated filter, and heated sample line and analyzed with a Fourier transform infrared (FTIR) analyzer operated by a portable computer. The computer has FTIR spectra of calibration gases stored on the hard drive. These single component calibration spectra are used to analyze the measured sample spectra. The gas components to be measured will be selected from the spectra library and incorporated into the analytical method. The signal amplitude, linearity, and signal to noise ratio will be measured and recorded to document analyzer performance. A leak check will be performed on the sample cell. The instrument path length will be verified using ethylene as the Calibration Transfer Standard. Dynamic spiking will be performed using a certified standard of the target compound in nitrogen with sulfur hexafluoride blended as a tracer to calculate the dilution factor. All test spectra, interferograms, and analytical method information will be recorded and stored with the calculated analytical results. A diagram of the sampling system is presented in Figure 3-2.

**FIGURE 3-2
USEPA METHOD 320 SAMPLING SYSTEM**



A continuous sample of stack gas will be withdrawn via a sample probe. The sampled gas will be filtered for removal of particulates prior to being sent to the analyzer. All parts of the sampling system and the analyzer will be heated to a temperature of approximately 300°F. The wet-basis hydrogen cyanide concentration will be reported in ppmv.

3.4.8 CARBON MONOXIDE AND OXYGEN – USEPA PERFORMANCE SPECIFICATION 4B

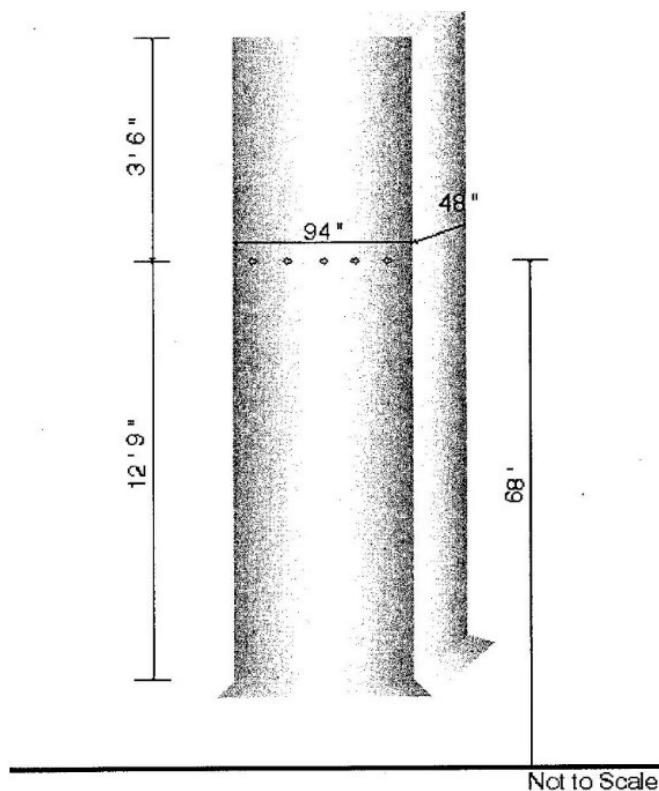
The facility's continuous emissions monitoring systems (CEMS) will be used to measure the concentration of carbon monoxide (CO) and oxygen in the stack gas during the test.

A continuous sample of stack gas will be withdrawn via a sample probe. The sampled gas will be filtered and will be passed through a conditioning system for removal of particulates and moisture prior to being sent to the analyzer. The CO concentration will be reported in parts per million by volume dry basis (ppmv dry) corrected to seven percent oxygen.

3.5 SAMPLING LOCATION

All sampling will be conducted on the Utility Boiler No. 3 stack. Figure 3-3 provides a diagram of the sampling location.

**FIGURE 3-3
SAMPLING LOCATION**



3.6 SAMPLING QUALITY CONTROL PROCEDURES

Specific sampling QC procedures will be followed to ensure the production of useful and valid data throughout the course of this test program.

Prior to the start of testing, all sampling equipment will be thoroughly checked to ensure clean and operable components and to ensure no damage occurred during shipping. Once the equipment has been set up, the manometer used to measure pressure across the pitot tube will be leveled and zeroed, and the number and location of all sampling traverse points will be checked.

At the start of each test day and throughout the testing, all sample train components will be checked to ensure they remain in good condition and continue to operate properly. Electrical components will be checked for damaged wiring or bad connections. All glassware will be inspected to make sure no cracks or chips are present.

All sampling trains will be assembled and recovered in a mobile laboratory to ensure a clean environment, free of uncontrolled dust. To ensure the sampling trains are free of contamination, all glassware will remain sealed until assembly of the sampling train.

Pre-test and post-test leak checks will be performed for each sampling train, as required by the respective test methods. Care will be taken to make sure all sampling trains are being operated within the specifications of their respective method.

At the end of testing each day, all sampling equipment will be sealed and covered to protect from possible contamination and weather damage.

4.0 SAMPLE HANDLING AND DOCUMENTATION

Sample custody procedures for this program are based on procedures from *Handbook: QA/QC Procedures for Hazardous Waste Incineration* (QA/QC Handbook) and Chapter One of *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (SW-846). The procedures that will be used are discussed below.

4.1 FIELD SAMPLING OPERATIONS

The stack sampling contractor will be responsible for ensuring custody and sample tracking documentation procedures are followed for the field sampling and field analytical efforts. Documentation of all sample collection activities will be recorded on pre-printed data collection forms. Table 4-1 provides a summary of sample custody documentation requirements.

TABLE 4-1
SAMPLE CUSTODY DOCUMENTATION REQUIREMENTS

CUSTODY DOCUMENT	REQUIRED INFORMATION
Sample data forms	Sampler's name or initials
	Date and time of sample collection
	Sampling technique
	Compositing technique (waste samples)
	Sample identifier
	Sampling location
Chain of custody	Unique identifier for each sample shipped
	Date and time of sample collection
	Sample preservation requirements
	Analysis and preparation procedures requested
	Signature of individual relinquishing sample custody

Samples will be collected, transported, and stored in clean containers constructed of materials inert to the analytical matrix, such as glass jars. Only containers allowing airtight seals will be used. Amber glass will be employed when specified by the method. All waste feed samples will be packed by the stack sampling contractor for transfer or shipment to the appropriate laboratories. Sample tracking and custody forms, which include sample identification and analysis requests, will be enclosed in the sample shipment container.

Upon receipt by the laboratory, information pertaining to the samples will be recorded on the sample tracking and custody form or an attachment to the form. The laboratory will note the overall condition

of the samples, including the temperature of the samples upon receipt. The laboratory will also note any discrepancy in the sample identification between the sample labels and the custody forms. The signature of the person receiving the samples will be provided on the chain of custody (COC).

If the laboratory notes discrepancies in sample identification labels and forms or suspects issues concerning sample integrity, the laboratory will contact the Stack Testing Director, who will then contact the Offsite Project Coordinator, as appropriate. In many instances, questions concerning sample labeling can be rectified through discussions between the Stack Testing Director and the laboratory. Some sample integrity concerns can be rectified using archived samples. If archive samples are not available, the sample integrity issues are discussed with the Stack Testing Director and/or the Offsite Project Coordinator, and appropriate actions are taken, as warranted by the specific issue.

Every record pertaining to sample collection activities, including, but not limited to, stack sampling data sheets, process sample data sheets, sample tracking forms, sampling equipment calibration forms, balance calibration forms, and reagent preparation information will be submitted with the report to provide evidence that the samples were handled properly, taken at the correct time and in the correct manner, assigned a unique identifier, received intact by the laboratory, and preserved as appropriate. Adherence to the holding times indicated in Section 5.0, Tables 5-1 and 5-2, will be noted in the laboratory analytical results.

4.2 FIELD LABORATORY OPERATIONS

The stack sampling contractor will provide an onsite laboratory trailer for sample train assembly and recovery and documentation and recordkeeping activities. Sample tracking documentation, shipping records, reagent and standards traceability, and all sampling activity records will be maintained in the laboratory trailer.

Documentation of onsite analytical activities, such as calibration, standards traceability, sample preparation steps, and raw measurement results will also be maintained onsite.

5.0 ANALYTICAL PROCEDURES

The analyses will follow ASTM International (ASTM) Methods and USEPA Methods. Table 5-1 presents the analytical methods for liquid waste samples. Table 5-2 presents the analytical methods for stack gas samples. These tables present the referenced analytical method, the laboratory performing the analysis, the extraction and analysis holding time, and if required, the sample preservation and sample preparation method. Collection of these samples was described in Section 3.0. Note that the tables in Section 3.0 specify which samples are to be collected using which methods; the tables included in this section specify the preparation and analytical methods to be used to evaluate each sample.

TABLE 5-1
PREPARATION AND ANALYSIS PROCEDURES FOR LIQUID WASTE SAMPLES

PARAMETER	ANALYTICAL METHOD ¹	LAB	PRESERVATIVE REQUIRED	EXTRACTION HOLDING TIME	ANALYSIS HOLDING TIME	PREPARATION METHOD ¹
Density	ASTM Method D1475	Eurofins	Not applicable	Not applicable	180 days	Not applicable
Higher heating value	ASTM Method D240	Eurofins	Not applicable	Not applicable	180 days	Not applicable

¹ ASTM refers to ASTM International.

TABLE 5-2
PREPARATION AND ANALYSIS PROCEDURES FOR STACK GAS SAMPLES

PARAMETER	ANALYTICAL METHOD ¹	LAB	PRESERVATIVE REQUIRED	EXTRACTION HOLDING TIME	ANALYSIS HOLDING TIME	PREPARATION METHOD ¹
Molecular weight	USEPA Method 3A	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Moisture	USEPA Method 4	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Polycyclic aromatic hydrocarbons and polychlorinated biphenyls	USEPA Method 23	Eurofins	≤6°C in the dark	30 days	40 days ²	USEPA Method 23
Hydrocarbons	USEPA Method 25A	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

TABLE 5-2 (CONTINUED)
PREPARATION AND ANALYSIS PROCEDURES FOR STACK GAS SAMPLES

PARAMETER	ANALYTICAL METHOD ¹	LAB	PRESERVATIVE REQUIRED	EXTRACTION HOLDING TIME	ANALYSIS HOLDING TIME	PREPARATION METHOD ¹
Hydrogen cyanide	USEPA Method 320	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Carbon monoxide and oxygen	USEPA Performance Specification 4B	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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

² Holding time from extraction may be up to one year if samples are stored below -10°C.

6.0 DATA QUALITY OBJECTIVES

The purpose of this test program is to provide the information requested in USEPA's ICR. BASF is committed to ensuring data generated during this project are scientifically valid, defensible, complete, and of known precision and accuracy. These objectives can be best achieved by applying the requirements of USEPA accepted methodology as well as the more specific recommendations and guidelines for test burns. To ensure consistency and adequacy of plans and reports and overall data quality, guidance from Chapter One of SW-846 and the QA/QC Handbook has been integrated into the approaches and philosophies of this QAPP.

Key measures of performance include the objectives for precision, accuracy, representativeness, completeness, and comparability (commonly referred to as PARCC parameters). This section presents project-specific data quality objectives for this test. These objectives represent the level of data quality considered acceptable for valid decision making, as measured in a manner that best reflects performance in the actual project matrices. These objectives will be communicated to the entire project team, including onsite sampling personnel and offsite contract laboratories.

6.1 QUALITY CONTROL PARAMETERS

QC objectives include precision, accuracy, representativeness, comparability, and completeness. Typical parameters include matrix spike (MS) and MS duplicate (MSD) samples, laboratory control sample (LCS) and LCS duplicate (LCSD) samples, post digestion spike (PDS) and post digestion spike duplicate (PDSD) samples, field and sample duplicates, surrogates, standards, and spikes. Tables 6-1 and 6-2 provide the project specific QC procedures for assessing accuracy and precision for critical measurement parameters. Critical parameters are those that directly relate to the ICR requirements. These tables list the parameter of analysis, the QC parameter, the QC procedure, the frequency at which accuracy and precision are determined, and the objective.

Table 6-3 provides information on the number of samples that will be collected for the emission test.

TABLE 6-1
QUALITY CONTROL OBJECTIVES FOR LIQUID WASTE SAMPLES

ANALYTICAL PARAMETER	QC PARAMETER	QC PROCEDURE	FREQUENCY ¹	OBJECTIVE ¹
Density	Precision	Field duplicate	One per test program	<20% relative percent difference ²
	Accuracy	Laboratory control sample	One per analytical batch	99-101% recovery
Higher heating value	Precision	Field duplicate	One per test program	<20% relative percent difference ²
		Laboratory control sample duplicate	One per analytical batch	≤2% relative percent difference ²
		Sample duplicate	One per analytical batch	≤10% relative percent difference ²
	Accuracy	Laboratory control samples	Two per analytical batch	98-102% recovery

¹ Unless specified otherwise, the frequency and objective provided for each parameter are based on specifications in the analytical method.

² If the concentrations are less than five times the reporting limit, the laboratory will be unable to control these limits.

TABLE 6-2
QUALITY CONTROL OBJECTIVES FOR STACK GAS SAMPLES

ANALYTICAL PARAMETERS	QC PARAMETER	QC PROCEDURE	FREQUENCY ¹	OBJECTIVE ¹
Polycyclic aromatic hydrocarbons	Precision	Laboratory control sample duplicate	One per analytical batch	≤25% relative percent difference
	Accuracy	Laboratory control samples	Two per analytical batch	60-140% recovery
		Internal standards (isotope dilution)	Every sample	20-130% recovery
		Surrogate standards	Every sample	70-130% recovery
Polychlorinated biphenyls	Precision	Laboratory control sample duplicate	One per analytical batch	≤50% relative percent difference
	Accuracy	Laboratory control samples	Two per analytical batch	60-135% recovery
		Internal standards (isotope dilution)	Every sample	20-145% recovery
		Surrogate standards	Every sample	20-130% recovery ² 70-130% recovery ³

¹ Unless specified otherwise, the frequency and objective provided for each parameter are based on specifications in the analytical method.

² These recoveries are required for surrogates PCB-28L, PCB-111L, and PCB-178L.

³ These recoveries are required for surrogates PCB-8L, PCB-79L, PCB-95L, and PCB-153L.

**TABLE 6-3
NUMBER OF SAMPLES**

SAMPLE MATRIX	SAMPLE DESCRIPTION	SAMPLES COLLECTED PER RUN	SAMPLES COLLECTED FOR QUALITY CONTROL	TOTAL SAMPLES COLLECTED	SAMPLES ANALYZED	SAMPLES ARCHIVED
Mixed alcohols or mixed amines	Bulk liquid	2	2	16	8	8
Stack gas – polycyclic aromatic hydrocarbons and polychlorinated biphenyls	Filter	1	2	9	8	1
	Front-half and back-half acetone and toluene rinses	1	1	8	8	0
	XAD-2 resin	1	2	9	8	1
	Deionized water impingers contents	1	1	8	8	0
	Deionized water impingers acetone and toluene rinses	1	1	8	8	0
	Deionized water	0	1	1	0	1
	Acetone	0	1	1	0	1
	Toluene	0	1	1	0	1

6.1.1 PRECISION

Precision is a measure of the reproducibility of results under a given set of conditions. It is expressed in terms of the distribution, or scatter, of replicate measurement results, calculated as the relative standard deviation (RSD) or, for duplicates, as relative percent difference (RPD). RPD and RSD values are calculated using the following equations:

$$RPD = \left(\frac{|X_1 - X_2|}{\text{avg } X} \right) \times 100$$

$$RSD = \left(\frac{\text{STDEV}}{\text{avg } X} \right) \times 100$$

Where X_1 and X_2 represent each of the duplicate results.

6.1.2 ACCURACY

Accuracy is a measure of the difference between an analysis result and the “true” value. Accuracy is expressed in terms of percent recovery (e.g., for surrogates, spikes, and reference material). Percent recovery for spiked samples, such as MS samples, is calculated using the following equation:

$$\% \text{Recovery} = \left(\frac{\text{SSR} - \text{SR}}{\text{SA}} \right) \times 100$$

Where:

SSR = Spiked sample result

SR = Sample result

SA = Spike added

Percent recovery for other QC parameters, such as LCS, surrogates, and standards, is calculated using the following equation:

$$\% \text{Recovery} = \left(\frac{\text{Measured Value}}{\text{True Value}} \right) \times 100$$

6.1.3 REPRESENTATIVENESS

Representativeness is defined as the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition. An appropriate sampling strategy that addresses collection of representative samples in time and space is crucial to subsequent decision-making and defensibility of the data. There are no numerical objectives for representativeness. The selection of suitable locations and sampling strategies, as described in this QAPP, and adherence to sample collection protocols are the bases for ensuring representativeness.

6.1.4 COMPARABILITY

Comparability is defined as expressing the confidence with which one data set can be compared to another. There are no numerical objectives for comparability. A representative sample whose results are comparable to other data sets is ensured primarily using standard reference sampling and analytical methods. Reported in common units, the results generated should thus be comparable to those obtained from other emissions tests and allow for consistent decision-making.

6.1.5 COMPLETENESS

Completeness is defined as “a measure of the amount of valid data collected compared to the amount planned.” Completeness can be defined quantitatively using the following equation:

$$\% \text{Completeness} = \left(\frac{\text{No. of Valid Data}}{\text{No. of Data Planned}} \right) \times 100$$

In the overall project context, the target is 100 percent completeness, which for a valid test condition is defined as consisting of three valid test runs. A valid test run is one in which sufficient valid data are presented to make any demonstrations required by the ICR.

A run can be valid even though the completeness objective of 100 percent for the data package is not achieved. Given the possibility of human error (and other unpredictable problems) and the inability of collecting additional samples after a test is completed, the impact of achieving less than 100 percent completeness must be assessed in the specific situation, rather than arbitrarily rejecting all the useable scientific information for the run without such consideration. For example, satisfying the completeness objective for a single piece of analytical data includes providing documentation that proves the following:

- An acceptable number of sub-samples were collected and composited;
- Compositing procedures were followed;
- The sample collection log was completed;
- Shipping documents and laboratory instructions were prepared and followed;
- The correct analytical procedures were followed;
- Any necessary modifications to methodology were documented and justified;
- Approved laboratory records were completed;
- Proper data reduction procedures were followed; and
- Analytical instrument printouts were included.

Clearly, the failure of a sampler to note the time a sub-sample was taken (where the previous and following sample times are noted) has less impact on the validity and acceptability of a data package than a failure by the laboratory to demonstrate that the analytical instrument was properly calibrated.

Any errors or omissions in a data package will be identified and accompanied by a discussion of the potential impact on the validity of the data package and the conclusions of the report for the consideration and approval of the USEPA.

6.2 EVALUATION OF CONTAMINATION EFFECTS

Blanks will be collected throughout the test program to evaluate the effects of contamination on results. Blank samples of all reagents used in the stack sampling program will be collected. Field blanks will be collected during the test program if required by the respective method. Method blanks will be prepared and analyzed by the respective laboratories to evaluate the cleanliness of sample handling and preparation and overall laboratory practices. Since reagent blanks cannot be collected for waste samples, the laboratory method blank will be used to determine the effects of contamination for waste analyses.

Table 6-4 provides the type and acceptance criteria for each stack gas blank to be analyzed. These blanks, as well as the laboratory method blanks for the waste samples, provide critical information on the potential contamination that may occur in test program samples. The results of blank analyses can prove very useful when attempting to understand anomalies in data or generally higher than expected test results.

TABLE 6-4
BLANK ANALYSIS OBJECTIVES FOR STACK GAS SAMPLES

ANALYTICAL PARAMETERS	BLANK TYPE	FREQUENCY	OBJECTIVE
Polycyclic aromatic hydrocarbons and polychlorinated biphenyls	Field train proof blank	One per test program	<Reporting limit
	Method blank	One per analytical batch	<Reporting limit
	Reagent blanks	One set per test program	Archived ¹

¹ The specified reagent blanks will initially be archived. These blanks will only be analyzed if sample contamination is suspected based on other analytical results.

6.3 PERFORMANCE AUDITS

On September 13, 2010, the USEPA issued a final rule to restructure the stationary source audit program. The program requires that audit samples be analyzed along with the samples collected while testing for regulatory compliance. This analysis helps the regulatory agency determine the validity of compliance test results. The rule requires sources to obtain and use audit samples from accredited providers. The USEPA has approved the National Environmental Laboratory Accreditation Conference (NELAC) Institute (TNI) Stationary Source Audit Program to provide accredited audit samples.

The USEPA suspended the audit program on May 28, 2019, due to a lack of sample providers, and this emission test is not being performed to demonstrate compliance. Therefore, BASF will not obtain any audit samples for the test.

6.4 CORRECTIVE ACTION

During any testing project, simple or complex, there is potential that deviations from data quality objectives may occur. This section gives corrective action procedures to be used to mitigate such problems.

6.4.1 EQUIPMENT FAILURE

Any equipment found to be out of calibration or operating improperly will be repaired or replaced before additional measurements are made. If equipment repair is done onsite, calibrations will be performed in accordance with the applicable methods prior to use. It may be necessary to transport equipment offsite for calibration. If calibrations cannot be performed, the equipment will not be used. If measurements are made with equipment subsequently found to be out of calibration or operating

improperly, a detailed explanation of the cause of the malfunction will be provided. The effect of the malfunction on the data will be assessed, and the data will be qualified.

6.4.2 ANALYTICAL DEVIATIONS

For analyses where a method QC check sample, such as a method blank, does not meet method specifications, the problem will be investigated to determine the cause as well as any corrective action that should be taken. Once the corrective action has been taken, the analysis will be re-examined to verify the problem has been eliminated.

In instances of out of specification spikes or calibrations, the samples involved will be re-extracted or reanalyzed if possible. In those instances where reanalyzing the sample is not possible, corrective measures will be taken to improve method performance prior to analysis of the next batch of samples.

Results for samples where matrix interferences preclude meeting objectives for recoveries of surrogates or spikes will be evaluated for potential bias to calculated emission results.

6.4.3 CONTAMINATION

The handling procedures for samples taken during this test, from blank testing to sample collection and analysis, are designed to eliminate contamination by limiting their exposure to contaminants in the ambient air and other outside sources. If levels of contamination are present above the reporting limits in the analyzed blanks, the archived blank samples will be analyzed. Corrective action will be taken if the results of the field blanks are significantly different from those of the reagent blanks or trip blanks. This comparison will indicate whether high levels in the field blank are due to contamination from exposure to outside sources, contamination of reagent materials or, in the case of sorbent traps, from degradation of the traps.

6.4.4 PROCEDURAL DEVIATIONS

SOPs for the methods being performed will be available onsite during all testing. BASF and the project team will determine an appropriate action in all cases where standard procedures cannot resolve the problem.

7.0 CALIBRATION PROCEDURES AND PREVENTATIVE MAINTENANCE

This section presents a brief discussion of calibration and routine maintenance procedures to be used for sampling and analytical equipment. Criteria for analytical calibrations are also included. Calibration procedures for each analytical method are discussed in detail within the methods.

7.1 SAMPLING EQUIPMENT

All sampling equipment will be provided by the stack sampling contractor. The equipment will be calibrated prior to arrival onsite and after all testing has been completed. The sampling equipment calibration requirements and acceptance limits are listed in Table 7-1.

The equipment will be calibrated according to the criteria specified in the reference method being employed. In addition, the stack sampling contractor will follow the guidelines set forth in the *Quality Assurance Handbook for Air Pollution Measurement Systems, Volume III, Stationary Source Specific Methods*. When these methods are inapplicable, methods such as those prescribed by ASTM will be used. Dry gas meters, orifices, nozzles, and pitot tubes are calibrated in accordance with these documents. The range of the calibration is specified for all environmental measurements to encompass the range of probable experimental values. This approach ensures that all results are based upon interpolative analyses rather than extrapolative analyses. Calibrations are designed to include, where practical, at least three measurement points evenly spaced over the range. This practice minimizes the probability that false assumptions of calibration linearity will be made. In addition, it is common practice to select, when practical, at least one calibration value that approximates the levels anticipated in the actual measurement.

Data obtained during calibrations are recorded on standardized forms, which are checked for completeness and accuracy. Data reduction and subsequent calculations are performed using computer software. Calculations are checked at least twice for accuracy. Copies of calibration forms will be included in the test or project reports.

TABLE 7-1
SAMPLING EQUIPMENT CALIBRATION REQUIREMENTS

STACK GAS PARAMETER	QUALITY PARAMETER	METHOD OF DETERMINATION	FREQUENCY	CRITERIA
Gas flow	Pitot tube angle and dimensions	Calibrated in a wind tunnel or measurements with a vernier micrometer and angle indicator	Pre-test and post-test	To specifications in USEPA Method 2
	Barometer	Measurements with a NIST traceable barometer or calibrated vs. National Weather Service station	Not applicable	Not applicable
	Stack gas thermocouple	Calibrated vs. ASTM mercury-in-glass thermometer or NIST standards	Pre-test and post-test	Within 1.5% as °R
Isokinetic sampling train	Dry gas meter and orifice	Calibrated against reference orifices or against a reference dry gas meter	Pre-test and post-test	1. Y within 0.05 of pre-test Y 2. H _@ within 0.15 of pre-test
	Probe nozzle	Measurements with a vernier micrometer to 0.001 inches	Pre-test and post-test ¹	Maximum difference in any two dimensions within 0.004 inches
	Dry gas meter thermocouples	Calibrated vs. ASTM mercury-in-glass thermometer or NIST standards	Pre-test and post-test	Within 1.5% as °R
	Trip balance	Calibrated vs. standard weights	Pre-test	Within 0.5 grams
Carbon dioxide and oxygen analyzers	Analyzer calibration error test	Checked using USEPA Protocol 1 calibration gases	Before the test run and after any failed system bias or drift check	±2% of calibration span
	System bias test	Checked using USEPA Protocol 1 calibration gases	Before and after each test run	±5% of calibration span
	System drift check	Checked using USEPA Protocol 1 calibration gases	After the post-test system bias test	±3% of calibration span
Hydrocarbon analyzer	Calibration error test	Checked using USEPA Protocol 1 calibration gases	Prior to the first test run and after any failed drift test	±5% of calibration gas value
	Drift test	Checked using USEPA Protocol 1 calibration gases	After the last test run and hourly during the test period	±3% of span value
Hydrogen cyanide Fourier transform infrared analyzer	Calibration transfer standard direct	Verify stability, confirm optical path length	Pre-test	±5% of cert value
	Calibration transfer standard responses	Verify system stability, recovery, and response time	Prior to the first test run and after each test run	±5% of mean value
	Analyte spike	Verify system ability to quantify the analyte of interest in the gas stream	Pre-test	±30% theoretical recovery

TABLE 7-1 (CONTINUED)
SAMPLING EQUIPMENT CALIBRATION REQUIREMENTS

STACK GAS PARAMETER	QUALITY PARAMETER	METHOD OF DETERMINATION	FREQUENCY	CRITERIA
Carbon monoxide analyzer (Facility CEMS)	Calibration drift check	Checked using calibration gases	Daily	±3% of calibration span
Oxygen analyzer (Facility CEMS)	Calibration drift check	Checked using calibration gases	Daily	±0.5% volume

¹ If glass or quartz nozzles are used, only a pre-test calibration will be performed, as the calibration cannot change.

7.1.1 PITOT TUBES

Each pitot tube is inspected in accordance with the geometry standards contained in USEPA Method 2 or calibrated in a wind tunnel. A calibration coefficient is calculated for each pitot tube.

7.1.2 DIFFERENTIAL PRESSURE GAUGES

Fluid manometers do not require calibration other than leak checks. Manometers are leak-checked in the field prior to each test series and again upon completion of testing.

7.1.3 DIGITAL TEMPERATURE INDICATOR

One digital temperature indicator is used to determine the flue gas temperature, probe temperature, oven temperature, impinger outlet temperature, and dry gas meter temperature. The digital temperature indicator is calibrated with a reference thermocouple and potentiometer system that is calibrated against National Institute of Standards and Technology (NIST) standards or calibrated versus an ASTM mercury in-glass thermometer. The calibration is acceptable if the agreement is within ±1.5 percent in degrees Rankine (°R) in the temperature range of 460 to 1,600°R (0 to 1,140°F).

7.1.4 DRY GAS METER AND ORIFICE

A set of calibrated orifices is used to calibrate the dry gas meter and orifice. For the meter orifice, an orifice calibration factor is calculated using three different sized calibrated orifices. Each calibrated orifice is measured twice for a total of six measurements. Alternatively, a reference dry gas meter is used to calibrate the field dry gas meter over a range of five different meter pressures. For the dry gas meter, the full calibration provides the calibration factor of the dry gas meter.

7.1.5 BAROMETER

The stack sampling contractor will use a purchased, factory-calibrated, NIST traceable barometer. The barometer calibrations are good for one year, and the barometer is disposed of when the calibration expires. Alternatively, the stack sampling contractor personnel will calibrate a barometer prior to arrival onsite against a National Weather Service station.

7.1.6 NOZZLE

Nozzles will be calibrated onsite using a micrometer. At least three readings will be taken at quarter turns. The arithmetic average of the values obtained during the calibration is used.

7.1.7 CONTINUOUS EMISSIONS MONITORS

The stack sampling contractor will supply CEMS to measure the concentrations of carbon dioxide, oxygen, and HC in the stack gas. The monitors will be calibrated according to the procedures outlined in the respective test methods.

The facility's CEMS will be used to measure the concentrations of CO and oxygen in the stack gas. A calibration drift check is performed daily as required by the Appendix to HWC NESHAP.

7.1.8 FOURIER TRANSFORM INFRARED ANALYZERS

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

Following the zero gas checks, ambient air will be pulled through the sample chamber, and the line width and resolution will be verified to be at 1,879 reciprocal centimeters (cm^{-1}). The peak position will be entered, and the full-width at half height will be recorded (screenshot). Following these checks, another background spectra will be recorded, and the calibration transfer standard (CTS) will be introduced directly to the instrument sample port. The CTS instrument recovery will be recorded, and the instrument mechanical response time will be measured.

The stack gas will be introduced to the analyzer through the sampling system, and several scans will be taken until a stable reading is achieved. The native concentration of the spiking analyte will be recorded. Spike gas will be introduced to the sampling system at a constant flow rate less than or equal to ten percent of the total sample flow rate, and a corresponding dilution ratio will be calculated along with a system response time. Matrix spike recovery spectra will be recorded to compare to against method requirements.

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

7.2 ANALYTICAL EQUIPMENT

Analytical equipment calibration and QC procedures and internal QC checks are included to ensure accuracy of the measurements made by laboratory equipment. Table 7-2 provides a summary of the calibration and QC checks included for each analytical method for this test program.

TABLE 7-2
ANALYTICAL EQUIPMENT CALIBRATION AND QUALITY CONTROL CHECKS

PARAMETER	QUALITY CONTROL CHECK	METHOD OF DETERMINATION	FREQUENCY	ACCEPTANCE CRITERIA
Density	Initial calibration	Average of at least three determinations	Before analysis and as needed	≤0.5% relative standard deviation
Higher heating value	Initial calibration	Running average of 10 daily calibration standards	Initially and as needed	≤1% relative standard deviation
	Calibration check	Instrument calibration verification	Daily	±1% difference
Polycyclic aromatic hydrocarbons and polychlorinated biphenyls	Initial calibration	Five high resolution concentration calibration solutions	Prior to sample analysis	1. Mean relative response factor for unlabeled standards: <10% relative standard deviation 2. Mean relative response factor for labeled reference compounds: <20% relative standard deviation
	Calibration verification	Midlevel standard	At least once per shift	1. Response factors within ±25% of the initial calibration mean relative response factor for unlabeled standards 2. Response factors within ±25% of the initial calibration mean relative response factor for pre-sampling adsorbent standard and pre-extraction filter recovery standard 3. Response factors within ±30% of the initial calibration mean relative response factor for pre-extraction standard and alternative recovery standard
	Retention time window verification and gas chromatograph column performance	Monitor retention times, verify gas chromatograph column performance	At the beginning of each shift	Compliance with USEPA Method 23

7.3 PREVENTATIVE MAINTENANCE

To ensure the quality and reliability of the data obtained, preventative maintenance is performed on the sampling and analytical equipment. The following sections outline those procedures.

7.3.1 SAMPLING EQUIPMENT

An in-house equipment maintenance program is part of routine operations. The maintenance program's strengths include:

- Availability of personnel experienced in the details of equipment maintenance and fabrication;
- Maintenance of an adequate spare parts inventory; and
- Availability of tools and specialized equipment.

For field equipment, preventive maintenance schedules are developed from historical data. Table 7-3 gives specific maintenance procedures for field equipment. Maintenance schedules for major analytical instruments (*e.g.*, balances, gas chromatographs) are based on manufacturer's recommendations.

TABLE 7-3
MAINTENANCE ACTIVITIES FOR FIELD SAMPLING EQUIPMENT

EQUIPMENT	MAINTENANCE ACTIVITIES	SPARE PARTS
Vacuum system	Before and after field program: 1) Check oil and oiler jar 2) Leak check 3) Verify vacuum gauge is functional Yearly or as needed: 1) Replace valves in pump	Spare fluid
Inclined manometer	Before and after each field program: 1) Leak check 2) Check fluid for discoloration or visible matter Yearly or as needed: 1) Disassemble and clean 2) Replace fluid	Spare fluid, O-rings
Dry gas meter	Before and after each field program: 1) Check meter dial for erratic rotation Every 3 months: 1) Remove panels and check for excessive oil or corrosion 2) Disassemble and clean	None
Nozzles	Before and after each test: 1) Verify no dents, corrosion, or other damage 2) Glass or quartz nozzles, check for chips and cracks	Spare nozzles
Diaphragm pump	Before and after each test: 1) Leak check, change diaphragm if needed	None
Miscellaneous	Check for availability of spare parts	Fuses, fittings, thermocouples, thermocouple wire, variable transformers.

7.3.2 ANALYTICAL EQUIPMENT

In addition to including QC checks in the analysis of test program samples, the laboratories also perform regular inspection and maintenance of the laboratory equipment. Table 7-4 lists some of the routine maintenance procedures associated with the analytical equipment to be used in this test program.

TABLE 7-4
MAINTENANCE ACTIVITIES FOR ANALYTICAL EQUIPMENT

PARAMETER	EQUIPMENT	MAINTENANCE PROCEDURES
Polycyclic aromatic hydrocarbons and polychlorinated biphenyls	High resolution gas chromatograph/high resolution mass spectroscopy	<ol style="list-style-type: none"> 1. Change rotary pump oil 2. Clean beam center/focus stack and outer source 3. Clean ion volume 4. Change source slit

8.0 DATA REDUCTION, VALIDATION, AND REPORTING

This section presents the approaches to be used to reduce, validate, and report measurement data. With respect to the test, a quality team of companies and laboratories will be working together to ensure the success of this project. The team will make certain that:

- All raw data packages are paginated and assigned a unique project number. Each project number will reflect the type of analyses performed (*i.e.*, organic, inorganic, waste feed, air emissions).
- Each data package contains a case narrative, sample description information, sample receipt information, COC documentation, and summary report. All associated QA/QC results, run/batch data, instrument calibration data, sample extraction/preparation logs, and chromatograms, *etc.* will be included in each final laboratory report. Each report will also contain a list of validation qualifiers.
- These data are assigned to a specific appendix in the test report for easy reference and data review.

8.1 DATA REDUCTION

The methods referenced in this QAPP for field measurements and lab analyses are standard methods and are routinely used for such measurements and analyses. Data reduction procedures will follow the specific calculations presented in the reference methods.

Extreme care will be exercised to ensure hand-recorded data are written accurately and legibly. Additionally, prepared and formatted data recording forms will be required for all data collection. This is an important aid to verify all necessary data items are recorded. The collected field and laboratory data will be reviewed for correctness and completeness.

The stack sampling contractor will reduce and validate the sampling and field measurement data. The sampling data will include flow measurements, calibrations, *etc.* Each laboratory will reduce all analytical results prior to submission. The analytical data will be used to determine concentrations and emission rates of the compounds of interest. The way the derived quantities will be reported is discussed in Section 8.3.

8.2 DATA VALIDATION

Validation demonstrates that a process, item, data set, or service satisfies the requirements defined by the user. For this program, review and evaluation of documents and records will be performed to assess the validity of samples collected, methodologies used, and data reported. This review comprises three parts: review of field documentation, review of laboratory data reports, and evaluation of data quality. The Offsite Project Coordinator will have overall responsibility for data validation.

The sampling and analytical methods for this program have been selected because of their accepted validity for these types of applications. Adherence to the accepted methods, as described in this QAPP, is the first criterion for validation. The effectiveness of the analytical methods as applied to this study will be evaluated based on project-specific quality indicators, such as audit samples, replicate samples, and matrix and surrogate spikes.

8.2.1 REVIEW OF FIELD DOCUMENTATION

Sample validation is intended to ensure samples collected are representative of the population under study. Criteria for acceptance include positive identification, documentation of sample shipment, preservation and storage, and documentation demonstrating adherence to sample collection protocols and QC checks. As part of the review of field documentation, field data sheets will be checked for completeness, correctness, and consistency.

8.2.2 LABORATORY REVIEW OF DATA

The representative from each laboratory will approve all data results. The representative's signature will be included in the report. This signature will indicate that all QA/QC expectations were met. If expectations were not met, the discrepancies will be explained in the laboratory case narrative. The laboratory representative will discuss the QA/QC issues and include the impact of these issues on the data results in the case narrative.

Laboratory raw data packages will include the following information:

- A table of contents for the raw data; and
- Numbered pages, correlating to the table of contents.

8.2.3 EVALUATION OF DATA QUALITY

Under the direction of the Offsite Project Coordinator, the project team will review and evaluate the reported data. Data quality will be assessed. Review of the laboratory reports will result in an evaluation of the following parameters:

- Holding time for samples from date of collection to date of preparation and/or analysis;
- Sample storage conditions during the holding period prior to analysis;
- Tuning and calibration of instruments;
- PARCC parameter results and acceptance criteria;
- Blank sample analysis results; and
- Performance evaluation (audit) sample results, if applicable.

8.3 DATA REPORTING

The test report will be submitted to USEPA by August 30, 2024, or an extension will be requested.

All data will be reported in the appropriate units as applicable to the sample stream and the method of analysis. Waste analytical results will be reported as concentrations by weight. Stack gas results will be reported on a concentration basis and mass emission rates.

Specific procedures will be followed when reporting test results. This section describes the conventions for detection limits, blank correction, and the use of significant figures.

8.3.1 MANAGEMENT OF NON-DETECTS

There are several specific situations that will arise in which calculations will need to be performed, but the analytical results are non-detects (at some level). Contracted laboratories are requested to achieve the lowest detection limits possible for each of the methods included in this QAPP. All detection limits shall be defined in the laboratory reports. No data results shall be reported as “ND” without a defined numerical value provided as the detection limit.

The procedures for handling non-detects will be communicated to each laboratory and the stack sampling contractor. When dealing with detection limits and non-detect data, the following guidelines will be used:

- Method detection limits (MDLs) will be used to report waste analytical data;
- MDLs, reliable detection limits (RDLs), or estimated detection limits (EDLs) will be used to report stack gas analytical data, as appropriate; and
- Any results that use non-detects will be reported as maxima (*i.e.*, with a less-than sign – “<”).

8.3.2 BACKGROUND/BLANK CORRECTION

No methods used in this test program allow background or blank correction. Every effort will be made to use reagents and sampling media of the highest quality to ensure that no contamination is indicated in any of the blank samples. Any background contamination found will be documented.

8.3.3 ROUNDING AND SIGNIFICANT FIGURES

Observational results will be made with as many significant figures as possible. Rounding will be deferred until all resultant calculations have been made. The following rules will be applied in rounding data:

- When the digit after the one to be rounded is less than five, the one to be rounded is left unchanged; and
- When the digit after the one to be rounded is greater than or equal to five, the one to be rounded is increased by one.

Intermediate results will be presented in the final report at an appropriate level of significance (*i.e.*, rounded), although the derived, or resultant, calculations will be based on unrounded intermediate data. Consequently, it may not be possible to precisely reconstruct the resultant calculations on any table from the rounded intermediate results due to rounding errors.

9.0 QUALITY ASSURANCE REPORTS

Activities affecting data quality will be reviewed by the project team daily in the field, and as appropriate during non-field efforts. This will allow assessment of the overall effectiveness of the QAPP. These reviews will include the following:

- Summary of key QA activities, stressing measures that are being taken to ensure adherence to the QAPP;
- Description of problems observed that may impact data quality and corrective actions taken;
- Status of sample shipment and integrity at time of receipt and progress of sample analysis;
- Assessment of the QC data gathered over that time period;
- Any changes in QA organizational activities and personnel; and
- Results of internal or external assessments and the plan for correcting identified deficiencies, if any.

The testing program will have multiple tiers of QA/QC reviews. The specific laboratory performing the analysis will review the data for which they are responsible, and the laboratory project manager will sign the analytical data reports. Any QA/QC anomalies will be discussed in the case narrative. The Offsite Project Coordinator will also review the laboratory data package to discuss how the QA/QC anomalies may impact the emissions calculations. Any data determined to be invalid will be stated in the final report, and the impact of the invalid data on the test program will be assessed. Through this multiple tier process, all stages of the testing program will be tracked, monitored, reviewed, and documented.

10.0 REFERENCES

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USEPA. National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors, 40 CFR Part 63, Subpart EEE, September 30, 1999, and as amended through March 20, 2023.

USEPA. New Source Performance Standards, Test Methods and Procedures, Appendix A, 40 CFR Part 60.

USEPA. New Source Performance Standards, Performance Specifications, Appendix B, 40 CFR Part 60.

Attachment A: ANALYTE LIST

ATTACHMENT A
ANALYTE LIST

ANALYTE	CHEMICAL ABSTRACT SERVICE NUMBER
Polycyclic aromatic hydrocarbons	
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Anthracene	120-12-7
Benz[a]anthracene	56-55-3
Benzo[b]fluoranthene	205-99-2
Benzo[k]fluoranthene	207-08-9
Benzo[g,h,i]perylene	191-24-2
Benzo[a]pyrene	50-32-8
Benzo[e]pyrene	192-97-2
Chrysene	218-01-9
Dibenz[a,h]anthracene	53-70-3
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno[1,2,3-cd]pyrene	193-39-5
2-Methylnaphthalene	91-57-6
Naphthalene	91-20-3
Perylene	198-55-8
Phenanthrene	85-01-8
Pyrene	129-00-0
Polychlorinated biphenyls	
2,4'-Dichlorobiphenyl	34883-43-7
2,2',5-Trichlorobiphenyl	37680-65-2
2,4,4'-Trichlorobiphenyl	7012-37-5
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3
3,4,4',5-Tetrachlorobiphenyl	70362-50-4
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6
2',3,4,4',5-Pentachlorobiphenyl	65510-44-3
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8

ATTACHMENT A
ANALYTE LIST

ANALYTE	CHEMICAL ABSTRACT SERVICE NUMBER
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4
2,3,3',4,4',5'-Hexachlorobiphenyl	69782-90-7
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3

Appendix B: PROCESS MONITORING DATA

BASF Corporation - Geismar, Louisiana
Utility Boiler No. 3
Summary

			Run 1			Run 2			Run 3			Run 4		
			Average	Min	Max	Average	Min	Max	Average	Min	Max	Average	Min	Max
TI-3732	Combustion Chamber Temperature	°F	1,760	1,725	1,821	1,786	1,750	1,829	1,780	1,737	1,811	1,784	1,769	1,800
FI-3704	Steam Production Rate	klb/hr	117	110	135	117	110	131	120	114	128	120	117	125
FI-130010	Stack Gas Flow Rate	klb/hr	143	133	161	137	128	146	146	144	149	146	140	150
FIT-3334	Liquid Waste Feed Rate	gpm	15.0	15.0	15.1	15.0	14.9	15.0	15.0	14.8	15.1	15.0	15.0	15.0
FI-3706	Natural Gas Feed Rate	kscfh	92.1	26.8	128	48.5	27.0	73.7	104	104	105	104	104	107
FI-3712	AOG Vent Gas Feed Rate	kscfh	83.6	0	331	177	108	288	20.0	19.5	20.4	20.0	19.6	20.4
AI-30072	Corrected Stack Gas CO OMA	ppmv dry	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200
AI-30072	Corrected Stack Gas CO HRA	ppmv dry	0.0167	0.0108	0.0195	0.0174	0.0106	0.0195	0.0171	0.0090	0.0195	0.0174	0.0117	0.0195
AI-30071	Stack Gas Oxygen	% vol dry	4.45	3.66	5.53	4.41	3.90	4.82	4.42	3.36	5.41	4.42	4.16	4.69

			Run 5			Run 6			Run 7			Avg of Avgs
			Average	Min	Max	Average	Min	Max	Average	Min	Max	
TI-3732	Combustion Chamber Temperature	°F	1,714	1,676	1,757	1,726	1,703	1,755	1,840	1,799	1,885	1,770
FI-3704	Steam Production Rate	klb/hr	110	105	117	116	112	122	135	125	145	119
FI-130010	Stack Gas Flow Rate	klb/hr	137	129	144	142	136	150	164	151	174	145
FIT-3334	Liquid Waste Feed Rate	gpm	15.0	14.8	15.1	15.0	15.0	15.1	15.0	14.9	15.1	15.0
FI-3706	Natural Gas Feed Rate	kscfh	90.0	82.4	100	97.7	91.6	110	102	76.8	124	91.3
FI-3712	AOG Vent Gas Feed Rate	kscfh	21.9	21.5	22.3	21.9	21.6	22.3	91.1	20.8	151	62.2
AI-30072	Corrected Stack Gas CO OMA	ppmv dry	0.0246	0.0200	0.5600	0.0200	0.0200	0.0200	0.0227	0.0200	0.4500	0.0211
AI-30072	Corrected Stack Gas CO HRA	ppmv dry	0.0225	0.0102	0.0820	0.0174	0.0115	0.0195	0.0169	0.0088	0.0195	0.0179
AI-30071	Stack Gas Oxygen	% vol dry	4.63	4.26	5.01	4.43	4.05	4.77	4.52	4.02	5.00	4.47

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 1

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	1
Date:	05/07/2024
Start Time:	08:55
Suspend:	- - -
Restart:	- - -
Suspend:	- - -
Restart:	- - -
End Time:	13:27

Parameter	Units	Mixed amines
Heating value	Btu/lb	4,930
Specific gravity	- - -	0.992

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/7/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
08:55	1,741	113	143	15.0	124
08:56	1,742	113	143	15.0	124
08:57	1,741	113	143	15.0	125
08:58	1,737	112	145	15.0	125
08:59	1,741	111	144	15.0	123
09:00	1,742	111	142	15.0	123
09:01	1,740	112	142	15.0	123
09:02	1,734	113	142	15.0	124
09:03	1,728	114	142	15.0	124
09:04	1,734	114	142	15.0	124
09:05	1,740	114	143	15.0	124
09:06	1,742	113	143	15.0	125
09:07	1,743	113	142	15.0	124
09:08	1,743	113	143	15.0	125
09:09	1,743	112	143	15.0	123
09:10	1,746	112	142	15.0	122
09:11	1,748	111	142	15.0	122
09:12	1,742	111	142	15.0	122
09:13	1,736	111	142	15.0	122
09:14	1,729	111	142	15.0	121
09:15	1,728	112	141	15.0	121
09:16	1,729	111	141	15.0	121
09:17	1,731	111	141	15.0	121
09:18	1,736	111	140	15.0	121
09:19	1,740	112	141	15.0	121
09:20	1,737	111	141	15.0	121
09:21	1,734	111	141	15.0	122
09:22	1,731	110	141	15.0	122
09:23	1,728	111	141	15.0	122
09:24	1,725	112	141	15.0	122
09:25	1,726	111	141	15.0	122
09:26	1,730	111	142	15.0	121
09:27	1,737	111	141	15.0	121
09:28	1,740	110	140	15.0	120
09:29	1,736	111	140	15.0	120
09:30	1,731	110	140	15.0	120
09:31	1,731	111	139	15.0	120
09:32	1,736	110	140	15.0	120
09:33	1,739	110	140	15.0	120
09:34	1,736	110	140	15.0	120

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 1

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/7/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
09:35	1,730	111	140	15.0	120
09:36	1,727	112	140	15.0	122
09:37	1,726	112	142	15.0	122
09:38	1,727	112	142	15.0	123
09:39	1,729	113	143	15.0	124
09:40	1,727	113	144	15.0	124
09:41	1,729	114	143	15.0	125
09:42	1,735	113	144	15.0	125
09:43	1,737	114	144	15.0	125
09:44	1,738	112	144	15.0	125
09:45	1,738	113	144	15.0	125
09:46	1,735	114	144	15.0	125
09:47	1,732	114	143	15.0	125
09:48	1,735	113	143	15.0	126
09:49	1,739	113	144	15.0	125
09:50	1,739	114	144	15.0	126
09:51	1,735	114	144	15.0	126
09:52	1,736	115	144	15.0	127
09:53	1,738	115	144	15.0	127
09:54	1,741	115	144	15.0	128
09:55	1,747	114	144	15.0	127
09:56	1,750	115	144	15.0	127
09:57	1,750	118	145	15.0	126
09:58	1,753	119	145	15.0	126
09:59	1,764	120	145	15.0	125
10:00	1,781	121	145	15.0	125
10:01	1,793	121	145	15.0	124
10:02	1,796	122	146	15.0	123
10:03	1,794	123	147	15.0	121
10:04	1,791	122	148	15.0	119
10:05	1,787	122	149	15.0	115
10:06	1,781	121	150	15.0	110
10:07	1,771	118	151	15.0	102
10:08	1,762	117	151	15.0	96.6
10:09	1,752	118	152	15.0	90.2
10:10	1,744	119	152	15.0	81.4
10:11	1,744	119	151	15.0	71.4
10:12	1,748	121	151	15.0	59.6
10:13	1,751	121	151	15.0	45.2
10:14	1,759	123	151	15.0	34.0
10:15	1,766	124	151	15.0	30.4
10:16	1,764	129	154	15.0	28.4
10:17	1,771	132	157	15.0	27.6
10:18	1,783	135	160	15.0	27.3
10:19	1,790	135	161	15.0	27.2
10:20	1,803	134	161	15.0	27.0
10:21	1,816	130	160	15.0	26.8
10:22	1,821	129	158	15.0	26.8
10:23	1,819	128	154	15.0	26.8
10:24	1,817	129	152	15.0	26.9
10:25	1,817	125	150	15.0	26.9
10:26	1,819	123	148	15.0	27.0

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 1

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/7/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
10:27	1,815	121	146	15.0	27.0
10:28	1,812	120	143	15.0	27.1
10:29	1,813	119	143	15.1	27.1
10:30	1,809	119	141	15.0	27.4
10:31	1,806	117	140	15.0	28.3
10:32	1,809	117	138	15.0	28.0
10:33	1,800	117	137	15.0	30.5
10:34	1,789	118	138	15.0	32.6
10:35	1,785	116	138	15.0	35.1
10:36	1,783	116	137	15.0	35.6
10:37	1,777	116	136	15.0	36.3
10:38	1,782	115	136	15.0	34.8
10:39	1,798	112	135	15.0	35.0
10:40	1,801	112	133	15.0	36.6
10:41	1,786	112	133	15.0	38.4
10:42	1,775	113	133	15.0	39.9
10:43	1,767	115	133	15.0	40.8
10:44	1,764	114	134	15.0	41.6
10:45	1,766	114	134	15.0	43.6
10:46	1,769	114	135	15.0	43.4
10:47	1,770	114	134	15.0	43.9
10:48	1,767	115	134	15.0	43.4
10:49	1,766	115	134	15.0	42.0
10:50	1,771	115	134	15.0	40.5
10:51	1,773	115	134	15.0	38.6
10:52	1,780	114	136	15.0	34.5
10:53	1,784	116	135	15.0	34.1
10:54	1,781	115	135	15.0	32.4
10:55	1,778	116	135	15.0	31.2
10:56	1,782	115	135	15.0	30.4
10:57	1,773	116	136	15.0	30.0
10:58	1,767	116	137	15.0	29.0
10:59	1,775	118	138	15.0	28.0
11:00	1,786	118	138	15.0	27.5
11:01	1,785	119	139	15.0	27.4
11:02	1,786	120	139	15.0	27.3
11:03	1,785	119	139	15.0	28.1
11:04	1,791	119	138	15.0	30.9
11:05	1,796	120	138	15.0	32.8
11:06	1,796	122	138	15.0	36.4
11:07	1,789	123	140	15.0	39.4
11:08	1,784	123	142	15.0	43.4
11:09	1,783	123	145	15.0	43.1
11:10	1,790	122	144	15.0	40.9
11:11	1,797	122	143	15.0	39.2
11:12	1,803	122	142	15.0	36.3
11:13	1,810	120	141	15.0	36.6
11:14	1,812	119	140	15.0	36.0
11:15	1,805	117	139	15.0	38.1
11:16	1,798	118	139	15.0	39.0
11:17	1,799	118	138	15.0	40.7
11:18	1,802	118	137	15.0	42.3

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 1

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/7/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
11:19	1,800	117	137	15.0	45.5
11:20	1,791	117	138	15.0	49.4
11:21	1,789	119	139	15.0	54.5
11:22	1,785	119	140	15.0	56.8
11:23	1,782	119	140	15.0	60.2
11:24	1,791	119	140	15.0	61.4
11:25	1,807	120	141	15.0	62.2
11:26	1,810	122	141	15.0	62.0
11:27	1,805	123	142	15.0	61.2
11:28	1,811	123	142	15.0	61.4
11:29	1,813	120	143	15.0	63.5
11:30	1,810	120	143	15.0	64.9
11:31	1,805	119	141	15.0	67.4
11:32	1,807	117	140	15.0	70.0
11:33	1,813	115	140	15.0	70.7
11:34	1,806	114	139	15.0	72.8
11:35	1,797	112	138	15.0	74.3
11:36	1,787	112	137	15.0	77.3
11:37	1,780	111	136	15.0	81.9
11:38	1,769	112	136	15.0	85.2
11:39	1,755	111	136	15.0	89.4
11:40	1,747	111	137	15.0	92.7
11:41	1,741	113	137	15.0	96.9
11:42	1,735	116	137	15.0	101
11:43	1,737	116	137	15.0	104
11:44	1,744	117	138	15.0	107
11:45	1,746	117	140	15.0	110
11:46	1,745	119	141	15.0	112
11:47	1,744	119	141	15.0	114
11:48	1,748	121	143	15.0	115
11:49	1,754	120	143	15.0	115
11:50	1,760	120	144	15.0	116
11:51	1,763	119	145	15.0	115
11:52	1,760	119	145	15.0	114
11:53	1,760	119	145	15.0	115
11:54	1,760	119	145	15.0	115
11:55	1,757	119	146	15.0	115
11:56	1,757	120	146	15.0	115
11:57	1,758	120	147	15.0	116
11:58	1,758	120	147	15.0	116
11:59	1,760	120	147	15.0	117
12:00	1,760	121	148	15.0	116
12:01	1,757	120	149	15.0	117
12:02	1,756	120	149	15.0	117
12:03	1,757	120	149	15.0	117
12:04	1,753	120	149	15.0	116
12:05	1,750	120	150	15.0	116
12:06	1,755	120	148	15.0	116
12:07	1,757	119	148	15.0	116
12:08	1,752	119	148	15.0	116
12:09	1,752	119	148	15.0	116
12:10	1,758	118	148	15.0	114

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 1

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/7/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
12:11	1,756	117	147	15.0	114
12:12	1,750	117	146	15.0	112
12:13	1,746	116	145	15.0	111
12:14	1,748	116	144	15.0	111
12:15	1,751	116	144	15.0	111
12:16	1,751	117	144	15.0	110
12:17	1,750	115	143	15.0	110
12:18	1,748	115	143	15.0	110
12:19	1,742	116	144	15.0	110
12:20	1,734	116	144	15.0	110
12:21	1,731	118	144	15.0	111
12:22	1,734	117	144	15.0	112
12:23	1,739	117	145	15.0	113
12:24	1,744	117	145	15.0	112
12:25	1,746	117	146	15.0	112
12:26	1,745	117	145	15.0	112
12:27	1,745	118	145	15.0	111
12:28	1,743	118	144	15.0	111
12:29	1,745	117	144	15.0	112
12:30	1,747	117	146	15.0	112
12:31	1,738	118	147	15.0	114
12:32	1,737	119	146	15.0	115
12:33	1,743	119	147	15.0	116
12:34	1,747	118	147	15.0	115
12:35	1,758	117	147	15.0	112
12:36	1,763	116	146	15.0	112
12:37	1,756	117	145	15.0	111
12:38	1,754	116	144	15.0	111
12:39	1,752	116	143	15.0	110
12:40	1,750	115	143	15.0	110
12:41	1,747	116	143	15.0	110
12:42	1,738	115	142	15.0	109
12:43	1,734	116	143	15.0	109
12:44	1,735	115	143	15.0	109
12:45	1,736	116	142	15.0	109
12:46	1,735	115	143	15.0	109
12:47	1,734	116	143	15.0	109
12:48	1,737	116	142	15.0	109
12:49	1,740	116	143	15.0	109
12:50	1,745	115	142	15.0	109
12:51	1,745	115	143	15.0	109
12:52	1,740	115	143	15.0	109
12:53	1,735	116	144	15.0	109
12:54	1,735	115	143	15.0	109
12:55	1,738	116	143	15.0	109
12:56	1,739	115	143	15.0	110
12:57	1,739	116	143	15.0	110
12:58	1,739	116	143	15.0	110
12:59	1,735	118	143	15.0	110
13:00	1,739	116	143	15.0	111
13:01	1,743	117	144	15.0	111
13:02	1,741	117	145	15.0	112

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 1

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/7/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
13:03	1,742	118	146	15.0	113
13:04	1,743	118	146	15.0	114
13:05	1,746	118	146	15.0	115
13:06	1,747	118	147	15.0	115
13:07	1,750	118	147	15.0	116
13:08	1,751	118	147	15.0	113
13:09	1,747	118	146	15.0	114
13:10	1,742	119	146	15.0	113
13:11	1,742	119	146	15.0	114
13:12	1,746	120	146	15.0	115
13:13	1,748	119	146	15.0	116
13:14	1,749	119	146	15.0	115
13:15	1,752	119	146	15.0	115
13:16	1,755	120	147	15.0	115
13:17	1,754	120	147	15.0	116
13:18	1,755	120	147	15.0	116
13:19	1,757	120	147	15.0	117
13:20	1,755	121	149	15.0	117
13:21	1,753	121	149	15.0	119
13:22	1,753	122	150	15.0	120
13:23	1,760	121	151	15.0	118
13:24	1,765	121	150	15.0	118
13:25	1,764	120	149	15.0	117
13:26	1,765	121	149	15.0	118
13:27	1,764	121	149	15.0	118
Average	1,760	117	143	15.0	92.1
Minimum	1,725	110	133	15.0	26.8
Maximum	1,821	135	161	15.1	128

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 1

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	1
Date:	05/07/2024
Start Time:	08:55
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	13:27

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/7/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
08:55	0.0	0.020	0.014	4.41
08:56	0.0	0.020	0.014	4.54
08:57	0.0	0.020	0.015	4.66
08:58	0.0	0.020	0.014	4.62
08:59	0.0	0.020	0.014	4.55
09:00	0.0	0.020	0.014	4.64
09:01	0.0	0.020	0.014	4.65
09:02	0.0	0.020	0.014	4.53
09:03	0.0	0.020	0.014	4.38
09:04	0.0	0.020	0.014	4.42
09:05	0.0	0.020	0.014	4.36
09:06	0.0	0.020	0.014	4.47
09:07	0.0	0.020	0.014	4.43
09:08	0.0	0.020	0.013	4.50
09:09	0.0	0.020	0.015	4.48
09:10	0.0	0.020	0.015	4.51
09:11	0.0	0.020	0.016	4.64
09:12	0.0	0.020	0.018	4.79
09:13	0.0	0.020	0.018	4.68
09:14	0.0	0.020	0.017	4.52
09:15	0.0	0.020	0.019	4.53
09:16	0.0	0.020	0.018	4.57
09:17	0.0	0.020	0.018	4.61
09:18	0.0	0.020	0.017	4.56
09:19	0.0	0.020	0.020	4.52
09:20	0.0	0.020	0.018	4.62
09:21	0.0	0.020	0.018	4.55
09:22	0.0	0.020	0.018	4.61
09:23	0.0	0.020	0.019	4.53
09:24	0.0	0.020	0.020	4.56
09:25	0.0	0.020	0.018	4.54
09:26	0.0	0.020	0.018	4.46
09:27	0.1	0.020	0.017	4.41
09:28	0.1	0.020	0.019	4.47
09:29	0.1	0.020	0.017	4.56
09:30	0.1	0.020	0.018	4.46
09:31	0.2	0.020	0.017	4.50
09:32	0.2	0.020	0.020	4.60
09:33	0.2	0.020	0.019	4.69
09:34	0.3	0.020	0.019	4.79

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 1

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/7/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
09:35	0.3	0.020	0.016	4.69
09:36	0.3	0.020	0.016	4.68
09:37	0.3	0.020	0.016	4.68
09:38	0.4	0.020	0.015	4.70
09:39	0.4	0.020	0.015	4.79
09:40	0.4	0.020	0.013	4.67
09:41	0.5	0.020	0.013	4.55
09:42	0.5	0.020	0.014	4.59
09:43	0.5	0.020	0.014	4.57
09:44	0.5	0.020	0.014	4.64
09:45	0.6	0.020	0.014	4.66
09:46	0.6	0.020	0.014	4.60
09:47	0.6	0.020	0.014	4.56
09:48	0.7	0.020	0.015	4.52
09:49	0.7	0.020	0.013	4.65
09:50	0.7	0.020	0.014	4.64
09:51	0.7	0.020	0.013	4.61
09:52	0.8	0.020	0.013	4.51
09:53	0.8	0.020	0.014	4.45
09:54	0.8	0.020	0.015	4.39
09:55	0.9	0.020	0.018	4.41
09:56	0.9	0.020	0.016	4.46
09:57	0.9	0.020	0.017	4.25
09:58	1.0	0.020	0.017	3.96
09:59	1.4	0.020	0.017	3.88
10:00	2.1	0.020	0.019	3.75
10:01	3.8	0.020	0.018	3.82
10:02	7.7	0.020	0.017	3.80
10:03	13.4	0.020	0.018	3.90
10:04	21.8	0.020	0.016	4.09
10:05	32.8	0.020	0.018	4.30
10:06	49.9	0.020	0.017	4.56
10:07	71.7	0.020	0.019	4.81
10:08	85.6	0.020	0.018	5.16
10:09	104	0.020	0.018	5.33
10:10	127	0.020	0.018	5.27
10:11	154	0.020	0.019	5.18
10:12	187	0.020	0.016	5.30
10:13	226	0.020	0.018	5.41
10:14	263	0.020	0.016	5.53
10:15	289	0.020	0.020	5.50
10:16	311	0.020	0.019	5.50
10:17	326	0.020	0.020	5.42
10:18	331	0.020	0.015	5.36
10:19	329	0.020	0.017	5.29
10:20	324	0.020	0.015	5.29
10:21	317	0.020	0.017	5.24
10:22	310	0.020	0.017	5.25
10:23	302	0.020	0.019	5.15
10:24	297	0.020	0.014	4.79
10:25	291	0.020	0.016	4.75
10:26	285	0.020	0.016	4.68

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 1

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/7/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
10:27	279	0.020	0.015	4.68
10:28	275	0.020	0.014	4.56
10:29	270	0.020	0.016	4.63
10:30	265	0.020	0.011	4.59
10:31	259	0.020	0.014	4.48
10:32	255	0.020	0.019	4.55
10:33	250	0.020	0.019	4.51
10:34	246	0.020	0.018	4.22
10:35	239	0.020	0.019	4.23
10:36	231	0.020	0.019	4.14
10:37	228	0.020	0.020	4.11
10:38	226	0.020	0.018	4.18
10:39	220	0.020	0.018	4.36
10:40	214	0.020	0.018	4.52
10:41	210	0.020	0.019	4.48
10:42	207	0.020	0.018	4.52
10:43	205	0.020	0.015	4.36
10:44	203	0.020	0.018	4.22
10:45	201	0.020	0.017	4.31
10:46	199	0.020	0.018	4.36
10:47	199	0.020	0.018	4.28
10:48	201	0.020	0.017	4.21
10:49	206	0.020	0.016	4.12
10:50	211	0.020	0.018	4.13
10:51	216	0.020	0.017	4.29
10:52	220	0.020	0.019	4.52
10:53	226	0.020	0.018	4.46
10:54	231	0.020	0.018	4.43
10:55	235	0.020	0.018	4.52
10:56	239	0.020	0.018	4.63
10:57	246	0.020	0.017	4.77
10:58	252	0.020	0.020	4.70
10:59	256	0.020	0.017	4.70
11:00	259	0.020	0.018	4.62
11:01	262	0.020	0.018	4.63
11:02	261	0.020	0.018	4.61
11:03	256	0.020	0.018	4.40
11:04	249	0.020	0.019	4.43
11:05	243	0.020	0.020	4.25
11:06	239	0.020	0.017	4.32
11:07	238	0.020	0.017	4.37
11:08	237	0.020	0.017	4.31
11:09	236	0.020	0.015	4.14
11:10	235	0.020	0.014	4.07
11:11	234	0.020	0.015	4.16
11:12	234	0.020	0.016	4.04
11:13	234	0.020	0.018	4.24
11:14	231	0.020	0.019	4.25
11:15	225	0.020	0.018	4.35
11:16	221	0.020	0.017	4.46
11:17	215	0.020	0.017	4.24
11:18	209	0.020	0.017	4.22

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 1

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/7/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
11:19	200	0.020	0.015	4.21
11:20	191	0.020	0.019	4.42
11:21	184	0.020	0.018	4.49
11:22	178	0.020	0.019	4.21
11:23	172	0.020	0.018	4.19
11:24	168	0.020	0.016	4.06
11:25	168	0.020	0.018	4.11
11:26	170	0.020	0.018	4.03
11:27	173	0.020	0.019	4.01
11:28	173	0.020	0.018	3.98
11:29	165	0.020	0.017	4.25
11:30	156	0.020	0.016	4.28
11:31	148	0.020	0.018	3.94
11:32	139	0.020	0.017	3.99
11:33	131	0.020	0.020	4.13
11:34	124	0.020	0.017	4.24
11:35	114	0.020	0.019	4.29
11:36	103	0.020	0.018	4.33
11:37	91.9	0.020	0.016	4.37
11:38	82.5	0.020	0.017	4.40
11:39	74.9	0.020	0.019	4.31
11:40	65.8	0.020	0.016	4.52
11:41	57.5	0.020	0.019	4.39
11:42	49.6	0.020	0.017	4.02
11:43	43.6	0.020	0.018	3.72
11:44	36.8	0.020	0.019	3.74
11:45	29.8	0.020	0.019	3.93
11:46	25.1	0.020	0.018	3.89
11:47	23.2	0.020	0.017	3.82
11:48	22.4	0.020	0.019	3.91
11:49	22.2	0.020	0.019	3.66
11:50	21.8	0.020	0.014	3.95
11:51	21.9	0.020	0.018	4.06
11:52	21.6	0.020	0.020	4.14
11:53	21.7	0.020	0.018	4.14
11:54	21.7	0.020	0.019	4.11
11:55	21.7	0.020	0.015	4.22
11:56	21.6	0.020	0.019	4.27
11:57	21.5	0.020	0.015	4.39
11:58	21.5	0.020	0.016	4.31
11:59	21.6	0.020	0.017	4.33
12:00	21.8	0.020	0.017	4.46
12:01	21.8	0.020	0.018	4.33
12:02	21.6	0.020	0.017	4.55
12:03	21.4	0.020	0.018	4.53
12:04	21.6	0.020	0.017	4.55
12:05	21.5	0.020	0.013	4.44
12:06	21.6	0.020	0.013	4.39
12:07	21.7	0.020	0.018	4.40
12:08	21.4	0.020	0.017	4.45
12:09	21.6	0.020	0.018	4.42
12:10	21.7	0.020	0.018	4.38

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 1

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/7/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
12:11	21.6	0.020	0.016	4.43
12:12	21.6	0.020	0.018	4.33
12:13	21.8	0.020	0.016	4.23
12:14	21.6	0.020	0.015	4.31
12:15	21.8	0.020	0.018	4.34
12:16	21.7	0.020	0.016	4.32
12:17	21.7	0.020	0.018	4.29
12:18	21.5	0.020	0.017	4.44
12:19	21.6	0.020	0.016	4.48
12:20	21.5	0.020	0.016	4.46
12:21	21.5	0.020	0.020	4.44
12:22	21.5	0.020	0.020	4.46
12:23	21.8	0.020	0.015	4.49
12:24	21.8	0.020	0.015	4.54
12:25	21.7	0.020	0.018	4.39
12:26	21.6	0.020	0.017	4.35
12:27	21.6	0.020	0.017	4.26
12:28	21.7	0.020	0.014	4.17
12:29	21.6	0.020	0.018	4.38
12:30	21.6	0.020	0.015	4.61
12:31	21.7	0.020	0.019	4.59
12:32	21.5	0.020	0.017	4.51
12:33	21.7	0.020	0.018	4.45
12:34	21.7	0.020	0.016	4.34
12:35	21.6	0.020	0.019	4.54
12:36	21.6	0.020	0.014	4.56
12:37	21.6	0.020	0.019	4.40
12:38	21.7	0.020	0.015	4.27
12:39	21.7	0.020	0.015	4.20
12:40	21.4	0.020	0.020	4.33
12:41	21.7	0.020	0.013	4.46
12:42	21.7	0.020	0.017	4.38
12:43	21.7	0.020	0.018	4.36
12:44	21.7	0.020	0.019	4.33
12:45	21.9	0.020	0.015	4.33
12:46	21.6	0.020	0.017	4.47
12:47	21.5	0.020	0.017	4.42
12:48	21.7	0.020	0.017	4.34
12:49	21.8	0.020	0.019	4.32
12:50	21.6	0.020	0.019	4.31
12:51	21.6	0.020	0.016	4.42
12:52	21.4	0.020	0.016	4.52
12:53	21.5	0.020	0.018	4.54
12:54	21.8	0.020	0.015	4.52
12:55	21.8	0.020	0.017	4.48
12:56	21.7	0.020	0.017	4.47
12:57	21.5	0.020	0.018	4.48
12:58	21.5	0.020	0.018	4.45
12:59	21.7	0.020	0.018	4.41
13:00	21.7	0.020	0.018	4.39
13:01	21.7	0.020	0.017	4.41
13:02	21.5	0.020	0.017	4.50

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 1

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/7/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
13:03	21.6	0.020	0.016	4.67
13:04	21.5	0.020	0.017	4.59
13:05	21.7	0.020	0.019	4.55
13:06	21.4	0.020	0.019	4.44
13:07	21.6	0.020	0.017	4.39
13:08	21.6	0.020	0.018	4.40
13:09	21.6	0.020	0.018	4.47
13:10	21.5	0.020	0.015	4.43
13:11	21.5	0.020	0.017	4.47
13:12	21.8	0.020	0.017	4.40
13:13	21.5	0.020	0.018	4.37
13:14	21.7	0.020	0.017	4.37
13:15	21.7	0.020	0.014	4.39
13:16	21.6	0.020	0.016	4.43
13:17	21.5	0.020	0.018	4.42
13:18	21.6	0.020	0.015	4.37
13:19	21.8	0.020	0.020	4.54
13:20	21.5	0.020	0.018	4.67
13:21	21.6	0.020	0.015	4.55
13:22	21.7	0.020	0.015	4.45
13:23	21.7	0.020	0.014	4.42
13:24	21.6	0.020	0.016	4.34
13:25	21.8	0.020	0.019	4.36
13:26	21.7	0.020	0.015	4.39
13:27	21.6	0.020	0.016	4.43
Average	83.6	0.020	0.017	4.45
Minimum	0.0	0.020	0.011	3.66
Maximum	331	0.020	0.020	5.53

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 2

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	2
Date:	05/07/2024
Start Time:	14:25
Suspend:	- - -
Restart:	- - -
Suspend:	- - -
Restart:	- - -
End Time:	18:56

Parameter	Units	Mixed amines
Heating value	Btu/lb	5,060
Specific gravity	- - -	0.989

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/7/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
14:25	1,824	126	141	15.0	27.0
14:26	1,814	126	141	15.0	27.0
14:27	1,809	126	140	15.0	27.0
14:28	1,813	124	140	15.0	27.0
14:29	1,816	124	139	15.0	27.0
14:30	1,813	124	138	15.0	27.0
14:31	1,809	124	138	15.0	27.0
14:32	1,811	124	141	15.0	27.0
14:33	1,823	124	144	15.0	27.0
14:34	1,818	125	140	15.0	27.1
14:35	1,815	125	137	15.0	27.1
14:36	1,814	125	137	15.0	27.1
14:37	1,821	124	137	15.0	27.1
14:38	1,815	125	138	15.0	27.1
14:39	1,802	127	138	15.0	27.1
14:40	1,810	128	140	15.0	27.1
14:41	1,818	127	142	15.0	27.1
14:42	1,810	129	143	15.0	27.1
14:43	1,810	129	145	15.0	27.1
14:44	1,827	129	146	15.0	27.1
14:45	1,829	129	146	15.0	27.1
14:46	1,822	131	145	15.0	27.2
14:47	1,821	129	145	15.0	27.2
14:48	1,824	127	144	15.0	27.2
14:49	1,811	124	141	15.0	27.2
14:50	1,806	122	139	15.0	27.2
14:51	1,803	120	136	15.0	27.2
14:52	1,801	119	134	15.0	27.2
14:53	1,804	116	132	15.0	27.2
14:54	1,788	115	130	15.0	27.2
14:55	1,774	115	130	15.0	28.5
14:56	1,765	116	130	15.0	28.4
14:57	1,765	116	129	15.0	30.9
14:58	1,767	115	129	15.0	32.7
14:59	1,775	114	129	15.0	33.4
15:00	1,785	117	129	15.0	34.8
15:01	1,784	115	129	15.0	36.9
15:02	1,788	115	129	15.0	37.2
15:03	1,792	114	129	15.0	39.3
15:04	1,786	114	128	15.0	41.1

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 2

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/7/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
15:05	1,775	114	129	15.0	44.2
15:06	1,773	114	129	15.0	45.3
15:07	1,783	114	128	15.0	48.0
15:08	1,781	116	129	15.0	50.1
15:09	1,777	118	130	15.0	53.4
15:10	1,775	118	132	15.0	57.5
15:11	1,786	118	134	15.0	60.6
15:12	1,787	118	137	15.0	63.0
15:13	1,788	118	139	15.0	63.3
15:14	1,797	117	140	15.0	62.3
15:15	1,810	116	139	15.0	62.6
15:16	1,801	113	136	15.0	63.4
15:17	1,783	114	136	15.0	63.0
15:18	1,771	112	136	15.0	63.3
15:19	1,768	112	135	15.0	63.9
15:20	1,764	110	135	15.0	64.2
15:21	1,759	111	135	15.0	64.8
15:22	1,753	112	135	15.0	64.6
15:23	1,756	113	135	15.0	63.8
15:24	1,764	114	135	15.0	62.5
15:25	1,766	113	135	15.0	61.0
15:26	1,767	114	136	15.0	59.1
15:27	1,762	115	137	15.0	56.9
15:28	1,761	115	137	15.0	55.1
15:29	1,768	116	136	15.0	52.5
15:30	1,768	114	137	15.0	49.2
15:31	1,769	115	137	15.0	46.5
15:32	1,766	115	136	15.0	44.5
15:33	1,767	116	137	15.0	41.8
15:34	1,778	115	137	15.0	39.5
15:35	1,781	116	136	15.0	37.3
15:36	1,779	115	137	15.0	34.2
15:37	1,779	114	137	15.0	31.9
15:38	1,771	113	136	15.0	29.3
15:39	1,761	115	136	15.0	28.1
15:40	1,756	115	136	15.0	27.5
15:41	1,760	117	137	15.0	27.1
15:42	1,763	116	137	15.0	27.1
15:43	1,767	116	137	15.0	27.2
15:44	1,766	115	136	15.0	27.3
15:45	1,764	115	136	15.0	27.3
15:46	1,764	113	135	15.0	27.8
15:47	1,765	114	134	15.0	28.7
15:48	1,766	113	134	15.0	30.0
15:49	1,767	113	134	15.0	30.9
15:50	1,763	113	134	15.0	31.7
15:51	1,761	112	134	15.0	32.5
15:52	1,766	113	134	15.0	33.3
15:53	1,763	114	134	15.0	34.1
15:54	1,761	114	134	15.0	35.6
15:55	1,767	113	134	15.0	36.8
15:56	1,773	113	133	15.0	37.5

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 2

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/7/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
15:57	1,774	113	134	15.0	38.6
15:58	1,774	113	134	15.0	40.5
15:59	1,780	111	133	15.0	41.6
16:00	1,784	111	133	15.0	44.3
16:01	1,774	112	133	15.0	45.6
16:02	1,756	112	133	15.0	47.1
16:03	1,750	112	133	15.0	49.0
16:04	1,756	112	133	15.0	50.1
16:05	1,765	111	133	15.0	50.4
16:06	1,763	113	134	15.0	50.7
16:07	1,753	113	134	15.0	51.1
16:08	1,751	113	135	15.0	51.0
16:09	1,758	113	134	15.0	51.1
16:10	1,768	115	135	15.0	50.7
16:11	1,771	113	135	15.0	50.0
16:12	1,777	114	135	15.0	49.6
16:13	1,778	113	135	15.0	48.8
16:14	1,774	114	135	15.0	47.6
16:15	1,774	114	135	15.0	46.0
16:16	1,771	115	136	15.0	45.4
16:17	1,769	113	136	15.0	44.6
16:18	1,767	113	135	15.0	44.1
16:19	1,764	113	135	15.0	43.5
16:20	1,760	113	135	15.0	42.9
16:21	1,765	112	135	15.0	42.5
16:22	1,775	113	135	15.0	41.5
16:23	1,789	113	135	15.0	40.2
16:24	1,785	114	135	15.0	39.0
16:25	1,782	113	135	15.0	38.4
16:26	1,776	112	136	15.0	38.2
16:27	1,766	113	136	15.0	38.4
16:28	1,754	113	135	15.0	38.5
16:29	1,756	113	135	15.0	39.2
16:30	1,775	112	134	14.9	40.2
16:31	1,784	114	134	14.9	41.1
16:32	1,779	116	134	14.9	42.1
16:33	1,782	116	134	15.0	42.7
16:34	1,782	114	134	15.0	43.8
16:35	1,791	114	134	15.0	44.6
16:36	1,782	114	134	15.0	45.4
16:37	1,777	113	134	15.0	46.2
16:38	1,782	113	135	15.0	47.6
16:39	1,780	113	134	15.0	48.3
16:40	1,774	113	135	15.0	49.3
16:41	1,766	115	136	15.0	49.5
16:42	1,771	115	135	15.0	49.7
16:43	1,783	114	136	15.0	49.9
16:44	1,775	114	135	15.0	50.7
16:45	1,761	115	136	15.0	50.9
16:46	1,773	113	136	15.0	50.2
16:47	1,790	114	137	15.0	50.0
16:48	1,790	114	136	15.0	49.7

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 2

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/7/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
16:49	1,784	116	136	15.0	49.1
16:50	1,776	117	136	15.0	48.0
16:51	1,775	118	136	15.0	46.5
16:52	1,779	118	136	14.9	45.3
16:53	1,800	121	137	14.9	44.2
16:54	1,811	121	138	14.9	42.6
16:55	1,812	123	138	14.9	41.9
16:56	1,814	121	138	15.0	41.4
16:57	1,811	122	139	15.0	40.4
16:58	1,808	120	139	15.0	40.2
16:59	1,813	121	140	15.0	40.2
17:00	1,823	119	140	15.0	40.2
17:01	1,819	120	140	15.0	40.3
17:02	1,818	120	140	15.0	41.3
17:03	1,812	120	140	15.0	42.5
17:04	1,808	117	140	15.0	44.5
17:05	1,808	116	140	15.0	45.9
17:06	1,807	116	140	15.0	46.6
17:07	1,803	117	140	15.0	47.1
17:08	1,799	117	139	15.0	47.4
17:09	1,795	116	139	15.0	48.6
17:10	1,796	117	139	15.0	49.9
17:11	1,782	117	139	15.0	51.5
17:12	1,773	116	139	15.0	53.5
17:13	1,784	116	138	15.0	55.2
17:14	1,787	116	138	15.0	56.5
17:15	1,781	116	138	15.0	56.4
17:16	1,788	117	138	15.0	56.3
17:17	1,796	117	138	15.0	56.2
17:18	1,804	116	138	15.0	56.2
17:19	1,799	118	138	15.0	55.6
17:20	1,799	118	139	15.0	54.1
17:21	1,805	119	140	15.0	52.5
17:22	1,809	118	140	15.0	50.8
17:23	1,811	119	140	15.0	48.5
17:24	1,799	119	140	15.0	46.2
17:25	1,802	118	140	15.0	44.5
17:26	1,812	117	140	15.0	43.5
17:27	1,811	117	140	15.0	43.6
17:28	1,800	117	139	15.0	43.9
17:29	1,794	116	138	15.0	45.9
17:30	1,800	116	138	15.0	47.9
17:31	1,800	116	137	15.0	50.2
17:32	1,797	116	137	15.0	51.0
17:33	1,794	116	137	15.0	52.1
17:34	1,787	116	137	15.0	52.6
17:35	1,781	116	137	15.0	53.2
17:36	1,781	117	138	15.0	53.6
17:37	1,778	117	138	15.0	54.2
17:38	1,772	117	138	15.0	54.8
17:39	1,770	116	138	15.0	55.6
17:40	1,778	116	138	15.0	56.4

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Utility Boiler No. 3

Run 2

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/7/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
17:41	1,787	116	138	15.0	56.7
17:42	1,794	117	138	15.0	56.7
17:43	1,798	117	138	15.0	57.7
17:44	1,799	117	139	15.0	58.5
17:45	1,793	116	138	15.0	60.0
17:46	1,786	118	138	15.0	61.2
17:47	1,784	116	139	15.0	62.4
17:48	1,788	116	139	15.0	63.5
17:49	1,785	115	139	15.0	64.2
17:50	1,775	117	139	15.0	63.7
17:51	1,778	117	139	15.0	62.5
17:52	1,790	118	139	15.0	61.5
17:53	1,796	117	140	15.0	60.4
17:54	1,795	118	140	15.0	59.8
17:55	1,791	118	140	15.0	59.0
17:56	1,784	118	140	15.0	58.2
17:57	1,783	117	140	15.0	57.4
17:58	1,791	118	140	15.0	56.7
17:59	1,794	117	140	15.0	56.7
18:00	1,793	118	140	15.0	56.9
18:01	1,787	117	140	15.0	57.1
18:02	1,785	116	139	15.0	57.3
18:03	1,785	116	139	15.0	58.3
18:04	1,780	118	139	15.0	58.3
18:05	1,779	116	139	15.0	58.8
18:06	1,790	116	139	15.0	59.1
18:07	1,794	115	139	15.0	59.5
18:08	1,794	116	139	15.0	60.1
18:09	1,799	116	139	15.0	60.7
18:10	1,804	117	139	15.0	61.5
18:11	1,802	116	139	15.0	62.6
18:12	1,794	118	139	15.0	64.5
18:13	1,787	117	139	15.0	66.0
18:14	1,786	117	139	15.0	67.4
18:15	1,785	116	139	15.0	68.4
18:16	1,781	116	139	15.0	69.2
18:17	1,776	116	139	15.0	69.0
18:18	1,768	117	139	15.0	68.3
18:19	1,768	116	139	15.0	67.2
18:20	1,776	118	140	15.0	66.1
18:21	1,780	117	140	15.0	64.8
18:22	1,786	118	140	15.0	63.0
18:23	1,784	118	141	15.0	61.6
18:24	1,782	119	141	15.0	60.4
18:25	1,776	119	140	15.0	58.8
18:26	1,777	120	140	15.0	57.7
18:27	1,778	118	141	15.0	56.6
18:28	1,789	118	141	15.0	55.9
18:29	1,800	117	141	15.0	56.0
18:30	1,792	117	141	15.0	56.2
18:31	1,785	116	140	15.0	56.9
18:32	1,780	116	140	15.0	58.4

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 2

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/7/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
18:33	1,775	116	140	15.0	60.1
18:34	1,768	117	140	15.0	60.6
18:35	1,773	118	139	15.0	61.3
18:36	1,789	118	138	15.0	62.1
18:37	1,794	117	139	15.0	63.8
18:38	1,788	117	139	15.0	65.7
18:39	1,786	117	140	15.0	67.6
18:40	1,777	117	139	15.0	69.2
18:41	1,772	117	140	15.0	71.2
18:42	1,775	118	139	15.0	72.3
18:43	1,776	118	139	15.0	73.1
18:44	1,783	119	139	15.0	73.6
18:45	1,784	119	140	15.0	73.7
18:46	1,783	120	140	15.0	73.7
18:47	1,783	120	141	15.0	73.3
18:48	1,778	121	141	15.0	72.4
18:49	1,787	121	142	15.0	71.0
18:50	1,801	121	142	15.0	69.6
18:51	1,799	122	144	15.0	67.2
18:52	1,804	122	144	15.0	64.9
18:53	1,811	122	144	15.0	63.0
18:54	1,811	122	145	15.0	61.9
18:55	1,818	121	144	15.0	61.2
18:56	1,806	122	144	15.0	60.5
Average	1,786	117	137	15.0	48.5
Minimum	1,750	110	128	14.9	27.0
Maximum	1,829	131	146	15.0	73.7

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 2

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	2
Date:	05/07/2024
Start Time:	14:25
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	18:56

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/7/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
14:25	270	0.020	0.015	4.46
14:26	267	0.020	0.015	4.37
14:27	266	0.020	0.017	4.33
14:28	264	0.020	0.017	4.35
14:29	264	0.020	0.018	4.47
14:30	263	0.020	0.017	4.38
14:31	264	0.020	0.016	4.41
14:32	263	0.020	0.020	4.41
14:33	263	0.020	0.018	4.42
14:34	263	0.020	0.020	4.34
14:35	263	0.020	0.020	4.15
14:36	263	0.020	0.019	4.36
14:37	264	0.020	0.015	4.53
14:38	268	0.020	0.020	4.52
14:39	274	0.020	0.020	4.44
14:40	278	0.020	0.020	4.46
14:41	282	0.020	0.020	4.46
14:42	286	0.020	0.019	4.61
14:43	288	0.020	0.020	4.53
14:44	288	0.020	0.015	4.54
14:45	288	0.020	0.015	4.63
14:46	284	0.020	0.018	4.62
14:47	278	0.020	0.018	4.60
14:48	270	0.020	0.020	4.70
14:49	264	0.020	0.016	4.61
14:50	257	0.020	0.019	4.62
14:51	251	0.020	0.015	4.51
14:52	246	0.020	0.012	4.31
14:53	239	0.020	0.020	4.34
14:54	236	0.020	0.013	4.34
14:55	233	0.020	0.019	4.40
14:56	229	0.020	0.020	4.36
14:57	224	0.020	0.018	4.35
14:58	220	0.020	0.017	4.18
14:59	215	0.020	0.020	4.39
15:00	211	0.020	0.013	4.32
15:01	206	0.020	0.011	4.29
15:02	201	0.020	0.017	4.32
15:03	196	0.020	0.018	4.30
15:04	192	0.020	0.015	4.32

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 2

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/7/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
15:05	188	0.020	0.019	4.39
15:06	182	0.020	0.015	4.29
15:07	178	0.020	0.014	4.35
15:08	173	0.020	0.020	4.49
15:09	169	0.020	0.020	4.32
15:10	165	0.020	0.018	4.24
15:11	161	0.020	0.020	4.29
15:12	158	0.020	0.020	4.32
15:13	157	0.020	0.016	4.25
15:14	155	0.020	0.014	4.24
15:15	151	0.020	0.015	4.02
15:16	147	0.020	0.017	3.99
15:17	142	0.020	0.019	4.22
15:18	138	0.020	0.018	4.16
15:19	135	0.020	0.017	4.17
15:20	131	0.020	0.016	4.34
15:21	130	0.020	0.016	4.54
15:22	132	0.020	0.019	4.51
15:23	136	0.020	0.018	4.32
15:24	140	0.020	0.017	4.31
15:25	145	0.020	0.018	4.42
15:26	149	0.020	0.017	4.51
15:27	155	0.020	0.019	4.39
15:28	161	0.020	0.019	4.47
15:29	168	0.020	0.018	4.44
15:30	176	0.020	0.016	4.59
15:31	184	0.020	0.016	4.60
15:32	190	0.020	0.018	4.50
15:33	196	0.020	0.016	4.47
15:34	202	0.020	0.019	4.50
15:35	208	0.020	0.017	4.43
15:36	213	0.020	0.017	4.30
15:37	218	0.020	0.018	4.58
15:38	225	0.020	0.019	4.72
15:39	230	0.020	0.017	4.75
15:40	233	0.020	0.016	4.71
15:41	235	0.020	0.018	4.66
15:42	235	0.020	0.016	4.64
15:43	233	0.020	0.019	4.68
15:44	229	0.020	0.019	4.48
15:45	225	0.020	0.019	4.52
15:46	220	0.020	0.018	4.60
15:47	218	0.020	0.018	4.77
15:48	215	0.020	0.017	4.76
15:49	213	0.020	0.016	4.64
15:50	211	0.020	0.016	4.55
15:51	209	0.020	0.019	4.54
15:52	207	0.020	0.018	4.51
15:53	205	0.020	0.018	4.41
15:54	201	0.020	0.019	4.50
15:55	198	0.020	0.016	4.46
15:56	196	0.020	0.018	4.44

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 2

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/7/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
15:57	193	0.020	0.017	4.52
15:58	188	0.020	0.019	4.45
15:59	183	0.020	0.016	4.33
16:00	179	0.020	0.016	4.62
16:01	175	0.020	0.017	4.43
16:02	171	0.020	0.019	4.32
16:03	166	0.020	0.019	4.39
16:04	165	0.020	0.017	4.46
16:05	165	0.020	0.017	4.51
16:06	165	0.020	0.018	4.47
16:07	165	0.020	0.016	4.45
16:08	165	0.020	0.018	4.37
16:09	165	0.020	0.018	4.48
16:10	167	0.020	0.019	4.39
16:11	168	0.020	0.018	4.25
16:12	169	0.020	0.019	4.31
16:13	173	0.020	0.018	4.46
16:14	177	0.020	0.017	4.43
16:15	179	0.020	0.018	4.47
16:16	182	0.020	0.018	4.52
16:17	183	0.020	0.017	4.57
16:18	185	0.020	0.018	4.60
16:19	186	0.020	0.017	4.32
16:20	186	0.020	0.019	4.38
16:21	188	0.020	0.018	4.48
16:22	192	0.020	0.019	4.55
16:23	195	0.020	0.016	4.56
16:24	196	0.020	0.018	4.57
16:25	196	0.020	0.017	4.60
16:26	196	0.020	0.017	4.82
16:27	197	0.020	0.016	4.77
16:28	196	0.020	0.018	4.50
16:29	193	0.020	0.018	4.51
16:30	191	0.020	0.018	4.53
16:31	189	0.020	0.018	4.50
16:32	186	0.020	0.018	4.35
16:33	183	0.020	0.016	4.15
16:34	181	0.020	0.017	4.20
16:35	179	0.020	0.016	4.34
16:36	176	0.020	0.017	4.30
16:37	174	0.020	0.019	4.39
16:38	171	0.020	0.017	4.45
16:39	169	0.020	0.017	4.48
16:40	168	0.020	0.019	4.54
16:41	168	0.020	0.015	4.49
16:42	168	0.020	0.018	4.40
16:43	168	0.020	0.017	4.43
16:44	168	0.020	0.015	4.46
16:45	168	0.020	0.017	4.31
16:46	168	0.020	0.017	4.36
16:47	168	0.020	0.018	4.41
16:48	169	0.020	0.018	4.41

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 2

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/7/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
16:49	172	0.020	0.017	4.37
16:50	175	0.020	0.019	4.18
16:51	179	0.020	0.019	4.07
16:52	183	0.020	0.017	4.10
16:53	186	0.020	0.019	4.06
16:54	189	0.020	0.020	3.90
16:55	189	0.020	0.019	3.95
16:56	189	0.020	0.016	3.97
16:57	192	0.020	0.018	4.03
16:58	193	0.020	0.017	4.21
16:59	193	0.020	0.018	4.37
17:00	193	0.020	0.017	4.39
17:01	192	0.020	0.016	4.48
17:02	188	0.020	0.018	4.39
17:03	183	0.020	0.018	4.42
17:04	178	0.020	0.018	4.55
17:05	176	0.020	0.017	4.71
17:06	175	0.020	0.019	4.68
17:07	175	0.020	0.016	4.59
17:08	172	0.020	0.017	4.54
17:09	170	0.020	0.019	4.56
17:10	165	0.020	0.018	4.62
17:11	161	0.020	0.017	4.51
17:12	155	0.020	0.019	4.47
17:13	152	0.020	0.018	4.41
17:14	151	0.020	0.017	4.37
17:15	151	0.020	0.018	4.30
17:16	151	0.020	0.016	4.38
17:17	151	0.020	0.018	4.30
17:18	152	0.020	0.018	4.31
17:19	156	0.020	0.018	4.35
17:20	161	0.020	0.018	4.21
17:21	165	0.020	0.018	4.42
17:22	170	0.020	0.016	4.49
17:23	177	0.020	0.017	4.48
17:24	182	0.020	0.017	4.46
17:25	185	0.020	0.019	4.53
17:26	186	0.020	0.018	4.58
17:27	186	0.020	0.019	4.74
17:28	182	0.020	0.019	4.59
17:29	175	0.020	0.016	4.45
17:30	167	0.020	0.017	4.54
17:31	165	0.020	0.018	4.51
17:32	164	0.020	0.018	4.38
17:33	162	0.020	0.017	4.32
17:34	160	0.020	0.017	4.24
17:35	158	0.020	0.017	4.22
17:36	158	0.020	0.017	4.30
17:37	156	0.020	0.019	4.25
17:38	154	0.020	0.018	4.24
17:39	152	0.020	0.018	4.31
17:40	151	0.020	0.016	4.38

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 2

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/7/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
17:41	151	0.020	0.016	4.35
17:42	150	0.020	0.018	4.27
17:43	148	0.020	0.018	4.34
17:44	144	0.020	0.019	4.39
17:45	140	0.020	0.017	4.42
17:46	138	0.020	0.018	4.29
17:47	135	0.020	0.017	4.29
17:48	132	0.020	0.018	4.36
17:49	131	0.020	0.016	4.54
17:50	135	0.020	0.017	4.50
17:51	139	0.020	0.019	4.32
17:52	142	0.020	0.018	4.32
17:53	144	0.020	0.019	4.32
17:54	146	0.020	0.016	4.49
17:55	147	0.020	0.017	4.41
17:56	150	0.020	0.017	4.37
17:57	150	0.020	0.018	4.39
17:58	153	0.020	0.014	4.51
17:59	154	0.020	0.019	4.54
18:00	153	0.020	0.019	4.55
18:01	151	0.020	0.020	4.49
18:02	148	0.020	0.020	4.46
18:03	147	0.020	0.020	4.52
18:04	147	0.020	0.018	4.30
18:05	146	0.020	0.014	4.35
18:06	144	0.020	0.019	4.45
18:07	144	0.020	0.015	4.49
18:08	142	0.020	0.020	4.42
18:09	140	0.020	0.019	4.34
18:10	137	0.020	0.020	4.37
18:11	133	0.020	0.020	4.45
18:12	129	0.020	0.020	4.47
18:13	126	0.020	0.017	4.31
18:14	121	0.020	0.020	4.30
18:15	120	0.020	0.019	4.29
18:16	119	0.020	0.018	4.40
18:17	121	0.020	0.019	4.34
18:18	124	0.020	0.020	4.20
18:19	127	0.020	0.018	4.20
18:20	131	0.020	0.012	4.18
18:21	135	0.020	0.016	4.15
18:22	139	0.020	0.019	4.24
18:23	143	0.020	0.017	4.41
18:24	146	0.020	0.015	4.38
18:25	149	0.020	0.020	4.40
18:26	152	0.020	0.018	4.38
18:27	154	0.020	0.016	4.44
18:28	154	0.020	0.018	4.50
18:29	154	0.020	0.016	4.60
18:30	152	0.020	0.017	4.47
18:31	148	0.020	0.019	4.37
18:32	144	0.020	0.017	4.46

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 2

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/7/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
18:33	141	0.020	0.018	4.67
18:34	140	0.020	0.019	4.54
18:35	139	0.020	0.018	4.32
18:36	134	0.020	0.018	4.23
18:37	130	0.020	0.018	4.30
18:38	125	0.020	0.018	4.44
18:39	121	0.020	0.016	4.43
18:40	116	0.020	0.018	4.31
18:41	112	0.020	0.017	4.30
18:42	109	0.020	0.018	4.28
18:43	109	0.020	0.017	4.17
18:44	108	0.020	0.016	4.12
18:45	108	0.020	0.018	4.12
18:46	109	0.020	0.017	4.03
18:47	111	0.020	0.019	4.17
18:48	114	0.020	0.016	4.11
18:49	118	0.020	0.015	4.20
18:50	124	0.020	0.017	4.28
18:51	131	0.020	0.019	4.36
18:52	137	0.020	0.014	4.42
18:53	139	0.020	0.017	4.40
18:54	142	0.020	0.018	4.46
18:55	143	0.020	0.018	4.46
18:56	144	0.020	0.019	4.50
Average	177	0.020	0.017	4.41
Minimum	108	0.020	0.011	3.90
Maximum	288	0.020	0.020	4.82

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Utility Boiler No. 3

Run 3

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	3
Date:	05/08/2024
Start Time:	08:25
Suspend:	- - -
Restart:	- - -
Suspend:	- - -
Restart:	- - -
End Time:	12:57

Parameter	Units	Mixed alcohols
Heating value	Btu/lb	5,860
Specific gravity	- - -	1.060

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/8/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
08:25	1,743	116	146	15.0	104
08:26	1,749	116	145	15.0	104
08:27	1,757	117	145	15.0	104
08:28	1,764	116	145	15.0	104
08:29	1,767	117	145	15.0	104
08:30	1,764	117	144	15.0	104
08:31	1,763	118	144	14.8	104
08:32	1,767	117	145	15.1	104
08:33	1,770	117	144	15.1	104
08:34	1,770	116	144	15.0	104
08:35	1,766	118	145	15.0	104
08:36	1,762	118	146	15.0	104
08:37	1,761	118	145	15.0	104
08:38	1,759	117	145	15.0	104
08:39	1,762	116	144	15.0	104
08:40	1,768	117	144	15.0	104
08:41	1,774	116	145	15.0	104
08:42	1,770	116	144	15.0	104
08:43	1,774	117	144	15.0	104
08:44	1,778	119	146	15.0	104
08:45	1,775	119	145	15.0	104
08:46	1,773	120	144	15.0	104
08:47	1,774	119	145	15.0	104
08:48	1,780	119	146	14.9	104
08:49	1,792	126	147	15.0	104
08:50	1,789	128	147	15.0	104
08:51	1,807	117	147	15.0	104
08:52	1,811	114	149	15.1	104
08:53	1,774	114	149	15.1	104
08:54	1,746	114	147	15.1	104
08:55	1,737	115	145	15.1	104
08:56	1,742	114	145	15.0	104
08:57	1,748	115	145	15.0	104
08:58	1,750	117	145	15.0	104
08:59	1,758	119	145	15.0	104
09:00	1,765	123	145	15.0	104
09:01	1,773	123	145	15.0	104
09:02	1,784	122	144	15.0	104
09:03	1,790	122	145	15.0	104
09:04	1,787	123	146	15.0	104

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 3

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/8/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
09:05	1,782	122	146	15.0	104
09:06	1,780	122	146	15.0	104
09:07	1,781	120	147	15.0	104
09:08	1,779	120	147	15.0	104
09:09	1,776	121	147	15.0	104
09:10	1,776	122	147	15.0	104
09:11	1,777	122	147	15.0	104
09:12	1,781	122	147	15.0	104
09:13	1,782	123	148	15.0	104
09:14	1,777	123	148	15.0	104
09:15	1,772	123	147	15.0	104
09:16	1,772	123	148	15.0	104
09:17	1,772	124	147	15.0	104
09:18	1,775	122	147	15.0	104
09:19	1,779	121	147	15.0	104
09:20	1,774	121	148	15.0	104
09:21	1,769	121	148	15.0	104
09:22	1,768	122	148	15.0	104
09:23	1,772	121	148	15.0	104
09:24	1,774	123	149	15.0	104
09:25	1,770	123	149	15.0	104
09:26	1,770	124	148	15.0	104
09:27	1,769	122	149	15.0	104
09:28	1,770	122	149	15.0	104
09:29	1,771	122	149	15.1	104
09:30	1,772	120	149	15.1	104
09:31	1,777	120	148	15.0	104
09:32	1,778	122	148	15.0	104
09:33	1,780	122	148	15.0	104
09:34	1,787	120	148	15.0	104
09:35	1,791	121	148	15.0	104
09:36	1,792	121	148	15.0	104
09:37	1,792	121	147	15.0	104
09:38	1,793	122	147	15.0	104
09:39	1,789	122	147	15.0	104
09:40	1,785	123	148	15.0	104
09:41	1,783	121	148	15.0	104
09:42	1,785	121	147	15.0	104
09:43	1,786	121	147	15.0	104
09:44	1,785	123	147	15.0	104
09:45	1,787	122	147	15.0	104
09:46	1,789	120	147	15.0	104
09:47	1,785	121	148	15.0	104
09:48	1,779	120	148	15.0	104
09:49	1,775	121	147	15.0	104
09:50	1,778	120	147	15.0	104
09:51	1,785	121	147	15.0	104
09:52	1,789	121	147	15.0	104
09:53	1,787	121	147	15.0	104
09:54	1,786	121	146	15.0	104
09:55	1,784	122	147	15.0	104
09:56	1,783	122	147	15.0	104

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 3

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/8/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
09:57	1,786	118	146	15.0	104
09:58	1,792	119	146	15.0	104
09:59	1,796	121	147	15.0	104
10:00	1,789	123	147	15.0	104
10:01	1,779	123	147	15.0	104
10:02	1,779	123	147	15.0	104
10:03	1,786	122	147	15.0	104
10:04	1,786	121	146	15.0	104
10:05	1,782	120	146	15.0	104
10:06	1,779	120	147	15.0	104
10:07	1,779	119	147	15.0	104
10:08	1,779	119	147	15.0	104
10:09	1,778	120	147	15.0	104
10:10	1,781	120	146	15.0	104
10:11	1,784	121	147	15.0	104
10:12	1,785	122	147	15.0	104
10:13	1,786	122	147	15.0	104
10:14	1,783	122	147	15.0	104
10:15	1,780	121	146	15.0	104
10:16	1,782	121	146	15.0	104
10:17	1,784	121	147	15.0	104
10:18	1,782	121	147	15.0	104
10:19	1,783	120	147	15.0	104
10:20	1,785	120	147	15.0	104
10:21	1,783	120	147	15.0	104
10:22	1,781	119	147	15.0	104
10:23	1,782	120	146	15.0	104
10:24	1,783	118	146	15.0	104
10:25	1,782	118	146	15.0	104
10:26	1,780	119	146	15.0	104
10:27	1,785	121	146	15.0	104
10:28	1,785	122	146	15.0	104
10:29	1,785	122	146	15.0	104
10:30	1,786	122	146	15.0	104
10:31	1,785	120	146	15.0	104
10:32	1,786	120	146	15.0	104
10:33	1,785	120	146	15.0	104
10:34	1,785	121	146	15.0	104
10:35	1,786	120	147	15.0	104
10:36	1,790	120	147	15.0	104
10:37	1,789	119	148	15.0	104
10:38	1,784	119	147	15.0	104
10:39	1,781	120	146	15.0	104
10:40	1,781	120	146	15.0	104
10:41	1,791	120	146	15.0	104
10:42	1,788	120	147	15.0	104
10:43	1,780	121	146	15.0	104
10:44	1,780	121	145	15.0	104
10:45	1,781	122	147	14.9	104
10:46	1,780	121	147	15.0	104
10:47	1,782	121	147	15.0	104
10:48	1,781	121	147	15.0	104

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Utility Boiler No. 3

Run 3

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/8/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
10:49	1,781	120	146	15.0	104
10:50	1,785	121	146	15.0	104
10:51	1,783	120	147	15.0	104
10:52	1,781	120	147	15.0	104
10:53	1,784	120	147	15.0	104
10:54	1,782	120	147	15.0	104
10:55	1,784	120	146	15.0	104
10:56	1,783	121	146	15.0	104
10:57	1,784	121	146	15.0	104
10:58	1,788	120	146	15.0	104
10:59	1,792	121	146	15.0	104
11:00	1,788	121	147	15.0	104
11:01	1,782	121	147	15.0	104
11:02	1,785	121	146	15.0	104
11:03	1,791	120	146	15.0	104
11:04	1,794	121	146	15.0	104
11:05	1,789	121	146	15.0	104
11:06	1,786	122	146	15.0	104
11:07	1,784	121	147	15.0	104
11:08	1,782	120	147	15.0	104
11:09	1,780	117	147	15.0	104
11:10	1,782	117	147	15.0	104
11:11	1,777	119	147	15.0	104
11:12	1,777	119	147	15.0	104
11:13	1,783	120	146	15.0	104
11:14	1,789	120	146	15.0	104
11:15	1,787	122	146	15.0	104
11:16	1,781	122	146	15.0	104
11:17	1,782	122	146	15.0	104
11:18	1,784	121	146	15.0	104
11:19	1,784	120	147	15.0	104
11:20	1,786	121	147	15.0	104
11:21	1,785	120	146	15.0	104
11:22	1,781	121	146	15.0	104
11:23	1,783	119	146	15.0	104
11:24	1,785	118	146	15.0	104
11:25	1,786	117	146	15.0	104
11:26	1,788	119	146	15.0	104
11:27	1,787	121	146	15.0	104
11:28	1,785	122	147	15.0	104
11:29	1,784	122	147	15.0	104
11:30	1,783	121	147	15.0	104
11:31	1,781	122	147	15.0	104
11:32	1,779	122	147	15.0	104
11:33	1,777	122	147	15.0	104
11:34	1,779	122	147	15.0	104
11:35	1,782	120	147	15.0	104
11:36	1,782	118	146	15.0	104
11:37	1,777	116	146	15.0	104
11:38	1,773	117	146	15.0	104
11:39	1,771	118	146	15.0	104
11:40	1,772	121	146	15.0	104

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 3

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/8/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
11:41	1,776	120	146	15.0	104
11:42	1,777	121	146	15.0	104
11:43	1,779	121	146	15.0	104
11:44	1,781	122	146	15.0	104
11:45	1,783	122	145	15.0	104
11:46	1,784	122	145	15.0	104
11:47	1,786	122	146	15.0	104
11:48	1,785	120	146	15.0	104
11:49	1,782	120	147	15.0	104
11:50	1,779	119	146	15.0	104
11:51	1,774	119	146	15.0	104
11:52	1,774	118	146	15.0	104
11:53	1,776	118	146	15.0	104
11:54	1,777	119	146	15.0	104
11:55	1,777	120	145	15.0	104
11:56	1,778	122	145	15.0	104
11:57	1,780	122	146	15.0	104
11:58	1,784	121	146	15.0	104
11:59	1,784	120	147	15.0	104
12:00	1,782	121	146	15.0	104
12:01	1,780	120	146	15.0	104
12:02	1,774	121	146	15.0	104
12:03	1,770	120	146	15.0	104
12:04	1,774	121	145	15.0	104
12:05	1,778	120	145	15.0	104
12:06	1,783	120	146	15.0	104
12:07	1,784	120	147	15.0	104
12:08	1,783	119	146	15.0	104
12:09	1,782	119	146	15.0	104
12:10	1,780	120	145	15.0	104
12:11	1,777	120	145	15.0	104
12:12	1,776	121	145	15.0	104
12:13	1,775	121	145	15.0	104
12:14	1,779	120	146	15.0	104
12:15	1,783	121	146	15.0	104
12:16	1,776	120	146	15.0	104
12:17	1,773	122	147	15.0	104
12:18	1,777	121	147	15.0	104
12:19	1,779	121	147	15.0	104
12:20	1,780	120	147	15.0	104
12:21	1,781	120	147	15.0	104
12:22	1,780	120	147	15.0	104
12:23	1,785	120	146	15.0	104
12:24	1,790	120	146	15.0	104
12:25	1,792	119	145	15.0	104
12:26	1,786	120	147	15.0	104
12:27	1,779	120	147	15.0	104
12:28	1,773	122	147	15.0	104
12:29	1,773	122	146	15.0	104
12:30	1,775	121	146	15.0	104
12:31	1,778	120	146	15.0	104
12:32	1,785	120	146	15.0	104

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 3

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/8/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
12:33	1,792	119	146	15.0	104
12:34	1,789	120	146	15.0	104
12:35	1,781	119	146	15.0	104
12:36	1,776	119	147	15.0	104
12:37	1,776	119	147	15.0	104
12:38	1,781	120	147	15.0	104
12:39	1,783	121	146	15.0	104
12:40	1,780	122	146	15.0	104
12:41	1,777	121	147	15.0	104
12:42	1,775	121	147	15.0	104
12:43	1,775	121	146	15.0	104
12:44	1,774	120	146	15.0	104
12:45	1,775	120	146	15.0	104
12:46	1,771	119	146	15.0	104
12:47	1,773	120	146	15.0	105
12:48	1,777	118	146	15.0	105
12:49	1,782	119	146	15.0	105
12:50	1,779	119	146	15.0	105
12:51	1,780	120	146	15.0	105
12:52	1,788	121	146	15.0	105
12:53	1,789	122	145	15.0	105
12:54	1,787	121	144	15.0	104
12:55	1,786	121	145	14.9	104
12:56	1,784	120	147	15.0	104
12:57	1,780	120	146	15.0	104
Average	1,780	120	146	15.0	104
Minimum	1,737	114	144	14.8	104
Maximum	1,811	128	149	15.1	105

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 3

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	3
Date:	05/08/2024
Start Time:	08:25
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	12:57

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/8/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
08:25	20.3	0.020	0.020	4.65
08:26	20.2	0.020	0.017	4.40
08:27	20.1	0.020	0.015	4.32
08:28	20.1	0.020	0.011	4.36
08:29	20.3	0.020	0.016	4.42
08:30	20.2	0.020	0.020	4.45
08:31	20.1	0.020	0.018	4.37
08:32	20.0	0.020	0.015	4.29
08:33	20.1	0.020	0.018	4.32
08:34	19.9	0.020	0.017	4.38
08:35	20.0	0.020	0.020	4.53
08:36	20.1	0.020	0.015	4.45
08:37	19.9	0.020	0.014	4.38
08:38	19.8	0.020	0.020	4.33
08:39	19.7	0.020	0.020	4.34
08:40	19.7	0.020	0.020	4.42
08:41	19.8	0.020	0.019	4.36
08:42	19.9	0.020	0.019	4.22
08:43	20.0	0.020	0.016	4.29
08:44	20.0	0.020	0.018	4.27
08:45	20.0	0.020	0.018	4.22
08:46	20.1	0.020	0.019	4.13
08:47	20.0	0.020	0.017	4.24
08:48	20.1	0.020	0.018	4.31
08:49	20.2	0.020	0.018	4.14
08:50	20.3	0.020	0.017	3.36
08:51	19.9	0.020	0.018	4.25
08:52	19.9	0.020	0.017	5.41
08:53	20.1	0.020	0.019	5.40
08:54	20.0	0.020	0.019	5.09
08:55	20.0	0.020	0.018	4.79
08:56	19.9	0.020	0.019	4.75
08:57	19.9	0.020	0.018	4.61
08:58	19.8	0.020	0.017	4.40
08:59	20.0	0.020	0.019	4.27
09:00	19.9	0.020	0.017	4.15
09:01	20.1	0.020	0.018	4.05
09:02	20.0	0.020	0.018	4.14
09:03	19.8	0.020	0.018	4.30
09:04	19.8	0.020	0.018	4.28

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 3

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/8/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
09:05	19.9	0.020	0.018	4.19
09:06	19.9	0.020	0.016	4.18
09:07	19.8	0.020	0.018	4.38
09:08	19.7	0.020	0.018	4.35
09:09	19.6	0.020	0.019	4.33
09:10	19.6	0.020	0.015	4.33
09:11	19.5	0.020	0.018	4.22
09:12	20.0	0.020	0.017	4.29
09:13	19.9	0.020	0.018	4.42
09:14	19.7	0.020	0.020	4.34
09:15	19.7	0.020	0.020	4.35
09:16	19.9	0.020	0.015	4.41
09:17	19.9	0.020	0.018	4.24
09:18	19.9	0.020	0.017	4.30
09:19	19.8	0.020	0.018	4.45
09:20	20.0	0.020	0.013	4.54
09:21	20.0	0.020	0.015	4.42
09:22	19.8	0.020	0.016	4.37
09:23	19.9	0.020	0.018	4.49
09:24	19.8	0.020	0.020	4.60
09:25	20.0	0.020	0.014	4.52
09:26	20.1	0.020	0.019	4.53
09:27	20.1	0.020	0.020	4.52
09:28	20.0	0.020	0.015	4.57
09:29	19.9	0.020	0.017	4.58
09:30	20.0	0.020	0.015	4.57
09:31	20.0	0.020	0.019	4.52
09:32	20.1	0.020	0.016	4.53
09:33	20.1	0.020	0.016	4.50
09:34	19.8	0.020	0.018	4.36
09:35	19.8	0.020	0.018	4.39
09:36	19.7	0.020	0.017	4.49
09:37	19.8	0.020	0.019	4.41
09:38	20.1	0.020	0.017	4.33
09:39	20.2	0.020	0.017	4.50
09:40	20.2	0.020	0.017	4.45
09:41	19.9	0.020	0.016	4.50
09:42	20.0	0.020	0.016	4.48
09:43	20.1	0.020	0.013	4.44
09:44	20.2	0.020	0.016	4.41
09:45	20.2	0.020	0.017	4.31
09:46	20.3	0.020	0.018	4.48
09:47	20.0	0.020	0.016	4.47
09:48	19.9	0.020	0.019	4.45
09:49	20.0	0.020	0.020	4.49
09:50	19.9	0.020	0.018	4.42
09:51	19.9	0.020	0.017	4.42
09:52	20.0	0.020	0.018	4.40
09:53	19.7	0.020	0.017	4.33
09:54	19.9	0.020	0.016	4.35
09:55	19.9	0.020	0.016	4.42
09:56	19.9	0.020	0.018	4.36

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 3

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/8/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
09:57	19.7	0.020	0.018	4.30
09:58	19.6	0.020	0.014	4.35
09:59	19.9	0.020	0.017	4.52
10:00	19.9	0.020	0.017	4.49
10:01	19.8	0.020	0.017	4.48
10:02	19.9	0.020	0.018	4.41
10:03	20.0	0.020	0.016	4.41
10:04	20.1	0.020	0.018	4.39
10:05	20.3	0.020	0.018	4.43
10:06	20.0	0.020	0.016	4.42
10:07	19.8	0.020	0.017	4.41
10:08	19.9	0.020	0.019	4.44
10:09	20.1	0.020	0.018	4.31
10:10	20.3	0.020	0.017	4.44
10:11	20.0	0.020	0.017	4.50
10:12	20.2	0.020	0.019	4.53
10:13	20.3	0.020	0.014	4.50
10:14	20.2	0.020	0.018	4.49
10:15	19.8	0.020	0.016	4.42
10:16	19.9	0.020	0.015	4.58
10:17	19.8	0.020	0.018	4.48
10:18	19.9	0.020	0.017	4.40
10:19	19.8	0.020	0.018	4.49
10:20	20.1	0.020	0.016	4.56
10:21	20.3	0.020	0.015	4.54
10:22	19.8	0.020	0.017	4.45
10:23	19.9	0.020	0.018	4.29
10:24	19.8	0.020	0.016	4.30
10:25	20.1	0.020	0.016	4.41
10:26	19.8	0.020	0.017	4.38
10:27	19.8	0.020	0.017	4.38
10:28	19.7	0.020	0.020	4.37
10:29	19.9	0.020	0.017	4.37
10:30	19.8	0.020	0.019	4.42
10:31	19.7	0.020	0.015	4.41
10:32	19.6	0.020	0.020	4.36
10:33	19.7	0.020	0.017	4.39
10:34	20.0	0.020	0.019	4.39
10:35	20.2	0.020	0.018	4.46
10:36	20.0	0.020	0.011	4.65
10:37	19.9	0.020	0.017	4.60
10:38	19.9	0.020	0.016	4.45
10:39	19.9	0.020	0.018	4.44
10:40	19.9	0.020	0.017	4.33
10:41	19.9	0.020	0.019	4.39
10:42	19.8	0.020	0.020	4.53
10:43	19.9	0.020	0.020	4.29
10:44	20.1	0.020	0.020	4.48
10:45	20.2	0.020	0.020	4.52
10:46	19.9	0.020	0.020	4.47
10:47	19.9	0.020	0.020	4.48
10:48	20.0	0.020	0.020	4.44

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 3

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/8/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
10:49	20.1	0.020	0.018	4.41
10:50	19.9	0.020	0.019	4.46
10:51	19.8	0.020	0.018	4.49
10:52	19.7	0.020	0.020	4.50
10:53	20.0	0.020	0.020	4.50
10:54	20.1	0.020	0.020	4.47
10:55	20.1	0.020	0.013	4.39
10:56	19.9	0.020	0.009	4.27
10:57	20.1	0.020	0.017	4.26
10:58	20.1	0.020	0.019	4.34
10:59	20.1	0.020	0.013	4.48
11:00	20.1	0.020	0.015	4.46
11:01	20.3	0.020	0.019	4.39
11:02	20.0	0.020	0.019	4.33
11:03	19.9	0.020	0.017	4.36
11:04	20.0	0.020	0.017	4.47
11:05	20.0	0.020	0.020	4.49
11:06	20.0	0.020	0.014	4.45
11:07	19.9	0.020	0.020	4.42
11:08	19.8	0.020	0.015	4.40
11:09	20.0	0.020	0.020	4.48
11:10	19.9	0.020	0.018	4.49
11:11	19.9	0.020	0.015	4.47
11:12	19.8	0.020	0.015	4.44
11:13	19.7	0.020	0.017	4.34
11:14	20.0	0.020	0.017	4.45
11:15	20.0	0.020	0.018	4.42
11:16	20.1	0.020	0.016	4.44
11:17	20.0	0.020	0.017	4.40
11:18	19.9	0.020	0.018	4.38
11:19	19.9	0.020	0.019	4.50
11:20	19.9	0.020	0.019	4.53
11:21	20.0	0.020	0.018	4.47
11:22	19.9	0.020	0.018	4.45
11:23	20.0	0.020	0.018	4.35
11:24	20.0	0.020	0.020	4.28
11:25	20.0	0.020	0.018	4.39
11:26	20.1	0.020	0.018	4.44
11:27	20.1	0.020	0.017	4.50
11:28	20.0	0.020	0.018	4.48
11:29	19.9	0.020	0.016	4.50
11:30	19.9	0.020	0.017	4.56
11:31	19.9	0.020	0.017	4.58
11:32	19.8	0.020	0.016	4.55
11:33	20.0	0.020	0.016	4.53
11:34	20.3	0.020	0.018	4.49
11:35	20.1	0.020	0.017	4.40
11:36	20.1	0.020	0.019	4.49
11:37	20.1	0.020	0.015	4.48
11:38	20.1	0.020	0.018	4.40
11:39	20.1	0.020	0.016	4.31
11:40	19.9	0.020	0.018	4.33

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 3

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/8/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
11:41	20.0	0.020	0.013	4.34
11:42	19.9	0.020	0.016	4.50
11:43	19.9	0.020	0.016	4.44
11:44	19.8	0.020	0.018	4.40
11:45	19.7	0.020	0.016	4.27
11:46	19.8	0.020	0.019	4.32
11:47	19.9	0.020	0.017	4.56
11:48	20.0	0.020	0.017	4.61
11:49	20.0	0.020	0.018	4.57
11:50	20.0	0.020	0.016	4.51
11:51	19.9	0.020	0.018	4.45
11:52	20.0	0.020	0.017	4.43
11:53	19.9	0.020	0.017	4.46
11:54	19.9	0.020	0.018	4.39
11:55	19.8	0.020	0.017	4.33
11:56	19.7	0.020	0.019	4.30
11:57	19.7	0.020	0.017	4.29
11:58	19.9	0.020	0.019	4.45
11:59	20.0	0.020	0.017	4.52
12:00	19.8	0.020	0.017	4.47
12:01	19.9	0.020	0.018	4.43
12:02	20.0	0.020	0.017	4.36
12:03	19.8	0.020	0.017	4.30
12:04	19.9	0.020	0.017	4.34
12:05	19.9	0.020	0.018	4.38
12:06	20.2	0.020	0.017	4.50
12:07	20.0	0.020	0.017	4.46
12:08	20.1	0.020	0.018	4.40
12:09	19.9	0.020	0.017	4.32
12:10	19.8	0.020	0.017	4.23
12:11	20.1	0.020	0.017	4.23
12:12	20.2	0.020	0.018	4.26
12:13	20.2	0.020	0.019	4.25
12:14	20.3	0.020	0.017	4.41
12:15	20.1	0.020	0.018	4.39
12:16	19.7	0.020	0.018	4.52
12:17	20.0	0.020	0.017	4.56
12:18	20.1	0.020	0.017	4.58
12:19	20.1	0.020	0.018	4.49
12:20	19.9	0.020	0.017	4.55
12:21	20.2	0.020	0.018	4.52
12:22	19.7	0.020	0.017	4.47
12:23	20.0	0.020	0.016	4.37
12:24	20.2	0.020	0.019	4.33
12:25	20.3	0.020	0.019	4.40
12:26	19.9	0.020	0.016	4.50
12:27	20.0	0.020	0.017	4.48
12:28	20.1	0.020	0.018	4.42
12:29	20.3	0.020	0.017	4.37
12:30	19.9	0.020	0.017	4.34
12:31	20.1	0.020	0.017	4.41
12:32	20.2	0.020	0.018	4.40

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 3

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/8/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
12:33	20.3	0.020	0.019	4.38
12:34	20.3	0.020	0.017	4.41
12:35	19.9	0.020	0.018	4.40
12:36	20.0	0.020	0.018	4.50
12:37	19.9	0.020	0.017	4.55
12:38	19.9	0.020	0.017	4.53
12:39	20.0	0.020	0.017	4.52
12:40	20.0	0.020	0.017	4.56
12:41	20.0	0.020	0.018	4.56
12:42	20.2	0.020	0.017	4.58
12:43	20.1	0.020	0.019	4.57
12:44	20.1	0.020	0.016	4.53
12:45	20.2	0.020	0.015	4.41
12:46	19.7	0.020	0.017	4.44
12:47	19.8	0.020	0.018	4.39
12:48	20.0	0.020	0.016	4.43
12:49	20.1	0.020	0.017	4.43
12:50	19.8	0.020	0.018	4.41
12:51	19.9	0.020	0.017	4.40
12:52	20.1	0.020	0.018	4.36
12:53	20.2	0.020	0.016	4.42
12:54	20.1	0.020	0.015	4.42
12:55	20.2	0.020	0.019	4.39
12:56	20.4	0.020	0.018	4.33
12:57	20.2	0.020	0.017	4.35
Average	20.0	0.020	0.017	4.42
Minimum	19.5	0.020	0.009	3.36
Maximum	20.4	0.020	0.020	5.41

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 4

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	4
Date:	05/08/2024
Start Time:	13:36
Suspend:	- - -
Restart:	- - -
Suspend:	- - -
Restart:	- - -
End Time:	18:08

Parameter	Units	Mixed alcohols
Heating value	Btu/lb	5,970
Specific gravity	- - -	1.050

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/8/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
13:36	1,782	122	145	15.0	104
13:37	1,780	123	145	15.0	104
13:38	1,774	122	145	15.0	104
13:39	1,769	120	145	15.0	105
13:40	1,769	120	145	15.0	105
13:41	1,771	119	146	15.0	106
13:42	1,772	120	148	15.0	107
13:43	1,772	120	149	15.0	106
13:44	1,771	120	147	15.0	106
13:45	1,778	120	146	15.0	106
13:46	1,785	118	145	15.0	105
13:47	1,782	118	145	15.0	105
13:48	1,774	118	146	15.0	105
13:49	1,771	120	146	15.0	104
13:50	1,772	120	145	15.0	104
13:51	1,774	122	145	15.0	104
13:52	1,776	120	144	15.0	104
13:53	1,777	121	144	15.0	104
13:54	1,780	120	145	15.0	104
13:55	1,781	120	145	15.0	104
13:56	1,779	119	144	15.0	104
13:57	1,776	119	145	15.0	104
13:58	1,776	119	145	15.0	104
13:59	1,774	121	146	15.0	104
14:00	1,772	123	146	15.0	104
14:01	1,773	121	145	15.0	104
14:02	1,776	121	145	15.0	104
14:03	1,778	119	144	15.0	104
14:04	1,777	119	144	15.0	104
14:05	1,779	117	144	15.0	104
14:06	1,780	117	145	15.0	105
14:07	1,779	119	146	15.0	105
14:08	1,778	121	145	15.0	104
14:09	1,779	121	146	15.0	104
14:10	1,781	121	145	15.0	104
14:11	1,783	121	146	15.0	104
14:12	1,782	121	145	15.0	104
14:13	1,784	120	144	15.0	104
14:14	1,787	119	145	15.0	104
14:15	1,789	120	145	15.0	104

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 4

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/8/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
14:16	1,786	120	145	15.0	104
14:17	1,781	120	145	15.0	104
14:18	1,780	120	145	15.0	104
14:19	1,782	120	145	15.0	104
14:20	1,782	120	145	15.0	104
14:21	1,781	120	145	15.0	104
14:22	1,782	120	145	15.0	104
14:23	1,781	120	145	15.0	104
14:24	1,779	120	142	15.0	104
14:25	1,777	121	143	15.0	104
14:26	1,775	119	142	15.0	104
14:27	1,775	120	141	15.0	104
14:28	1,778	121	141	15.0	104
14:29	1,780	121	141	15.0	104
14:30	1,782	120	140	15.0	104
14:31	1,785	118	140	15.0	104
14:32	1,786	119	141	15.0	104
14:33	1,783	121	140	15.0	104
14:34	1,786	122	140	15.0	104
14:35	1,785	122	140	15.0	104
14:36	1,784	121	140	15.0	104
14:37	1,782	120	140	15.0	104
14:38	1,778	120	141	15.0	104
14:39	1,777	119	141	15.0	104
14:40	1,778	119	141	15.0	104
14:41	1,780	119	141	15.0	104
14:42	1,782	120	142	15.0	104
14:43	1,784	118	144	15.0	104
14:44	1,779	120	144	15.0	104
14:45	1,775	120	143	15.0	104
14:46	1,772	121	141	15.0	104
14:47	1,780	120	140	15.0	104
14:48	1,781	119	141	15.0	104
14:49	1,780	119	141	15.0	104
14:50	1,780	120	141	15.0	104
14:51	1,779	120	141	15.0	104
14:52	1,777	119	141	15.0	104
14:53	1,780	119	142	15.0	104
14:54	1,780	118	142	15.0	104
14:55	1,780	120	140	15.0	104
14:56	1,775	120	140	15.0	104
14:57	1,775	121	140	15.0	104
14:58	1,774	121	141	15.0	104
14:59	1,772	120	142	15.0	104
15:00	1,773	120	144	15.0	104
15:01	1,778	120	143	15.0	104
15:02	1,778	120	142	15.0	104
15:03	1,773	120	146	15.0	104
15:04	1,772	120	144	15.0	104
15:05	1,774	121	143	15.0	104
15:06	1,776	120	140	15.0	104
15:07	1,778	120	140	15.0	104

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 4

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/8/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
15:08	1,784	121	145	15.0	104
15:09	1,783	120	146	15.0	104
15:10	1,784	120	147	15.0	104
15:11	1,785	121	145	15.0	104
15:12	1,781	121	145	15.0	104
15:13	1,786	120	146	15.0	104
15:14	1,786	119	146	15.0	104
15:15	1,781	119	146	15.0	104
15:16	1,782	120	146	15.0	104
15:17	1,782	121	146	15.0	104
15:18	1,782	121	146	15.0	104
15:19	1,784	122	146	15.0	104
15:20	1,781	121	146	15.0	104
15:21	1,780	121	146	15.0	104
15:22	1,781	121	146	15.0	104
15:23	1,782	121	146	15.0	104
15:24	1,784	121	146	15.0	104
15:25	1,784	120	147	15.0	104
15:26	1,783	118	147	15.0	104
15:27	1,784	119	146	15.0	104
15:28	1,785	120	147	15.0	104
15:29	1,782	120	146	15.0	104
15:30	1,779	121	146	15.0	104
15:31	1,779	121	146	15.0	104
15:32	1,778	121	147	15.0	104
15:33	1,774	121	147	15.0	104
15:34	1,771	121	147	15.0	104
15:35	1,775	120	147	15.0	104
15:36	1,782	121	146	15.0	104
15:37	1,786	119	146	15.0	104
15:38	1,787	120	147	15.0	104
15:39	1,783	120	147	15.0	104
15:40	1,779	121	146	15.0	104
15:41	1,777	120	146	15.0	104
15:42	1,781	121	146	15.0	104
15:43	1,784	121	146	15.0	104
15:44	1,780	121	147	15.0	104
15:45	1,778	122	147	15.0	104
15:46	1,780	122	146	15.0	104
15:47	1,782	122	147	15.0	104
15:48	1,783	121	147	15.0	104
15:49	1,786	122	148	15.0	104
15:50	1,789	122	148	15.0	104
15:51	1,792	123	148	15.0	104
15:52	1,792	122	148	15.0	104
15:53	1,790	124	149	15.0	104
15:54	1,787	124	149	15.0	104
15:55	1,783	125	149	15.0	104
15:56	1,782	123	149	15.0	104
15:57	1,783	123	149	15.0	104
15:58	1,782	122	149	15.0	104
15:59	1,783	120	149	15.0	104

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 4

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/8/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
16:00	1,783	120	148	15.0	104
16:01	1,777	119	148	15.0	104
16:02	1,777	120	148	15.0	104
16:03	1,781	120	149	15.0	104
16:04	1,785	121	149	15.0	104
16:05	1,790	121	149	15.0	104
16:06	1,786	122	148	15.0	104
16:07	1,781	122	148	15.0	104
16:08	1,786	122	148	15.0	104
16:09	1,794	120	148	15.0	104
16:10	1,798	120	147	15.0	104
16:11	1,798	120	147	15.0	104
16:12	1,793	121	148	15.0	104
16:13	1,788	121	147	15.0	104
16:14	1,783	121	147	15.0	104
16:15	1,780	120	147	15.0	104
16:16	1,778	120	147	15.0	104
16:17	1,779	120	148	15.0	104
16:18	1,779	121	148	15.0	104
16:19	1,778	121	147	15.0	104
16:20	1,783	121	147	15.0	104
16:21	1,789	121	146	15.0	104
16:22	1,788	120	146	15.0	104
16:23	1,788	122	147	15.0	104
16:24	1,785	121	147	15.0	104
16:25	1,789	122	147	15.0	104
16:26	1,792	122	148	15.0	104
16:27	1,790	122	148	15.0	104
16:28	1,791	122	148	15.0	104
16:29	1,788	122	148	15.0	104
16:30	1,788	122	148	15.0	104
16:31	1,791	122	148	15.0	104
16:32	1,794	121	148	15.0	104
16:33	1,798	121	149	15.0	104
16:34	1,800	123	149	15.0	104
16:35	1,794	123	149	15.0	104
16:36	1,792	123	150	15.0	104
16:37	1,796	123	149	15.0	104
16:38	1,792	122	150	15.0	104
16:39	1,789	121	150	15.0	104
16:40	1,789	122	149	15.0	104
16:41	1,781	121	149	15.0	104
16:42	1,779	122	149	15.0	104
16:43	1,786	121	149	15.0	104
16:44	1,793	121	149	15.0	104
16:45	1,787	121	149	15.0	104
16:46	1,784	122	149	15.0	104
16:47	1,785	121	148	15.0	104
16:48	1,790	122	148	15.0	104
16:49	1,796	120	149	15.0	104
16:50	1,797	121	148	15.0	104
16:51	1,792	120	148	15.0	104

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 4

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/8/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
16:52	1,787	120	149	15.0	104
16:53	1,785	120	148	15.0	104
16:54	1,783	120	147	15.0	104
16:55	1,784	120	148	15.0	104
16:56	1,783	120	147	15.0	104
16:57	1,783	120	147	15.0	104
16:58	1,784	121	147	15.0	104
16:59	1,786	121	147	15.0	104
17:00	1,791	119	147	15.0	104
17:01	1,789	120	147	15.0	104
17:02	1,787	120	147	15.0	104
17:03	1,786	120	147	15.0	104
17:04	1,792	120	147	15.0	104
17:05	1,787	120	146	15.0	104
17:06	1,777	120	146	15.0	104
17:07	1,776	121	147	15.0	104
17:08	1,783	121	146	15.0	104
17:09	1,786	121	147	15.0	104
17:10	1,788	120	147	15.0	104
17:11	1,787	119	147	15.0	104
17:12	1,784	120	147	15.0	104
17:13	1,785	120	146	15.0	104
17:14	1,785	120	147	15.0	104
17:15	1,787	121	146	15.0	104
17:16	1,789	121	147	15.0	104
17:17	1,789	119	147	15.0	104
17:18	1,791	120	147	15.0	104
17:19	1,791	121	147	15.0	104
17:20	1,787	121	147	15.0	104
17:21	1,789	120	147	15.0	104
17:22	1,792	120	148	15.0	104
17:23	1,795	120	148	15.0	104
17:24	1,793	121	148	15.0	104
17:25	1,791	121	148	15.0	104
17:26	1,792	121	147	15.0	104
17:27	1,792	120	147	15.0	104
17:28	1,789	120	147	15.0	104
17:29	1,787	121	147	15.0	104
17:30	1,788	121	147	15.0	104
17:31	1,789	121	147	15.0	104
17:32	1,791	120	147	15.0	104
17:33	1,794	120	148	15.0	104
17:34	1,796	121	148	15.0	104
17:35	1,796	121	147	15.0	104
17:36	1,794	121	148	15.0	104
17:37	1,791	121	148	15.0	104
17:38	1,792	120	148	15.0	104
17:39	1,792	121	148	15.0	104
17:40	1,788	121	147	15.0	104
17:41	1,784	121	147	15.0	104
17:42	1,785	120	147	15.0	104
17:43	1,792	120	147	15.0	104

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 4

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/8/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
17:44	1,795	118	148	15.0	104
17:45	1,790	120	147	15.0	104
17:46	1,784	120	147	15.0	104
17:47	1,784	119	147	15.0	104
17:48	1,788	120	147	15.0	104
17:49	1,788	119	148	15.0	104
17:50	1,785	121	148	15.0	104
17:51	1,783	122	147	15.0	104
17:52	1,784	123	147	15.0	104
17:53	1,790	122	147	15.0	104
17:54	1,793	122	147	15.0	104
17:55	1,790	121	148	15.0	104
17:56	1,786	121	148	15.0	104
17:57	1,783	119	148	15.0	104
17:58	1,783	120	147	15.0	104
17:59	1,785	119	147	15.0	104
18:00	1,792	118	148	15.0	104
18:01	1,797	119	148	15.0	104
18:02	1,793	121	148	15.0	104
18:03	1,790	122	146	15.0	104
18:04	1,794	123	146	15.0	104
18:05	1,797	122	147	15.0	104
18:06	1,794	121	148	15.0	104
18:07	1,792	121	148	15.0	104
18:08	1,790	121	147	15.0	104
Average	1,784	120	146	15.0	104
Minimum	1,769	117	140	15.0	104
Maximum	1,800	125	150	15.0	107

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 4

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	4
Date:	05/08/2024
Start Time:	13:36
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	18:08

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/8/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
13:36	19.8	0.020	0.016	4.36
13:37	19.8	0.020	0.017	4.41
13:38	19.9	0.020	0.018	4.44
13:39	20.1	0.020	0.014	4.46
13:40	19.6	0.020	0.019	4.45
13:41	20.0	0.020	0.018	4.52
13:42	20.0	0.020	0.019	4.69
13:43	20.0	0.020	0.018	4.49
13:44	20.1	0.020	0.019	4.39
13:45	20.0	0.020	0.016	4.35
13:46	19.8	0.020	0.018	4.39
13:47	19.8	0.020	0.016	4.40
13:48	20.0	0.020	0.017	4.45
13:49	19.9	0.020	0.017	4.41
13:50	20.1	0.020	0.020	4.39
13:51	19.8	0.020	0.018	4.31
13:52	20.0	0.020	0.017	4.26
13:53	20.0	0.020	0.016	4.40
13:54	20.0	0.020	0.015	4.49
13:55	20.0	0.020	0.016	4.42
13:56	20.1	0.020	0.016	4.41
13:57	20.0	0.020	0.017	4.42
13:58	20.0	0.020	0.016	4.47
13:59	20.1	0.020	0.017	4.56
14:00	20.2	0.020	0.016	4.45
14:01	20.0	0.020	0.019	4.38
14:02	20.1	0.020	0.018	4.47
14:03	20.1	0.020	0.014	4.41
14:04	20.1	0.020	0.020	4.45
14:05	20.2	0.020	0.015	4.45
14:06	19.8	0.020	0.017	4.48
14:07	20.0	0.020	0.015	4.48
14:08	20.0	0.020	0.020	4.44
14:09	19.9	0.020	0.019	4.42
14:10	19.9	0.020	0.020	4.42
14:11	19.8	0.020	0.019	4.33
14:12	19.9	0.020	0.020	4.22
14:13	19.9	0.020	0.018	4.28
14:14	19.9	0.020	0.020	4.31
14:15	20.0	0.020	0.020	4.44

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 4

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/8/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
14:16	19.9	0.020	0.020	4.44
14:17	19.9	0.020	0.015	4.30
14:18	20.1	0.020	0.019	4.24
14:19	19.9	0.020	0.018	4.33
14:20	20.0	0.020	0.012	4.47
14:21	19.9	0.020	0.019	4.54
14:22	20.0	0.020	0.019	4.49
14:23	20.0	0.020	0.018	4.43
14:24	20.3	0.020	0.015	4.42
14:25	20.1	0.020	0.017	4.38
14:26	20.0	0.020	0.019	4.48
14:27	20.0	0.020	0.018	4.47
14:28	20.0	0.020	0.020	4.42
14:29	20.1	0.020	0.019	4.31
14:30	20.0	0.020	0.020	4.23
14:31	20.0	0.020	0.017	4.36
14:32	20.1	0.020	0.012	4.52
14:33	20.1	0.020	0.019	4.37
14:34	20.1	0.020	0.012	4.37
14:35	20.0	0.020	0.017	4.34
14:36	20.2	0.020	0.019	4.45
14:37	20.1	0.020	0.018	4.45
14:38	19.8	0.020	0.018	4.44
14:39	20.0	0.020	0.020	4.42
14:40	20.0	0.020	0.016	4.45
14:41	20.1	0.020	0.020	4.47
14:42	20.0	0.020	0.018	4.34
14:43	20.1	0.020	0.019	4.49
14:44	20.2	0.020	0.015	4.52
14:45	20.3	0.020	0.020	4.44
14:46	20.1	0.020	0.016	4.36
14:47	20.1	0.020	0.019	4.31
14:48	20.1	0.020	0.017	4.46
14:49	19.9	0.020	0.017	4.50
14:50	19.8	0.020	0.015	4.58
14:51	20.0	0.020	0.020	4.55
14:52	19.9	0.020	0.019	4.50
14:53	19.9	0.020	0.017	4.48
14:54	20.0	0.020	0.018	4.51
14:55	20.0	0.020	0.015	4.50
14:56	19.9	0.020	0.018	4.40
14:57	20.0	0.020	0.019	4.44
14:58	20.0	0.020	0.018	4.44
14:59	19.9	0.020	0.016	4.46
15:00	19.8	0.020	0.018	4.51
15:01	20.2	0.020	0.014	4.44
15:02	20.1	0.020	0.016	4.40
15:03	20.0	0.020	0.018	4.36
15:04	19.9	0.020	0.015	4.31
15:05	19.9	0.020	0.017	4.41
15:06	19.9	0.020	0.017	4.33
15:07	20.1	0.020	0.018	4.33

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 4

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/8/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
15:08	20.0	0.020	0.016	4.36
15:09	20.1	0.020	0.018	4.41
15:10	20.1	0.020	0.017	4.49
15:11	19.9	0.020	0.020	4.44
15:12	20.1	0.020	0.017	4.32
15:13	20.2	0.020	0.017	4.38
15:14	20.0	0.020	0.015	4.45
15:15	20.2	0.020	0.020	4.47
15:16	20.3	0.020	0.018	4.48
15:17	20.2	0.020	0.016	4.46
15:18	20.1	0.020	0.019	4.42
15:19	19.9	0.020	0.019	4.38
15:20	19.8	0.020	0.019	4.33
15:21	19.7	0.020	0.018	4.42
15:22	19.6	0.020	0.019	4.50
15:23	19.6	0.020	0.018	4.50
15:24	20.1	0.020	0.017	4.41
15:25	20.2	0.020	0.019	4.39
15:26	19.9	0.020	0.018	4.40
15:27	19.8	0.020	0.017	4.42
15:28	20.1	0.020	0.017	4.40
15:29	19.8	0.020	0.019	4.32
15:30	19.7	0.020	0.019	4.37
15:31	19.6	0.020	0.016	4.34
15:32	19.8	0.020	0.017	4.50
15:33	19.8	0.020	0.017	4.59
15:34	20.2	0.020	0.017	4.51
15:35	20.1	0.020	0.017	4.42
15:36	20.1	0.020	0.018	4.37
15:37	19.9	0.020	0.019	4.37
15:38	20.2	0.020	0.018	4.48
15:39	20.0	0.020	0.018	4.50
15:40	20.1	0.020	0.018	4.42
15:41	20.0	0.020	0.018	4.37
15:42	20.1	0.020	0.018	4.32
15:43	20.1	0.020	0.016	4.43
15:44	20.1	0.020	0.018	4.45
15:45	20.1	0.020	0.017	4.33
15:46	20.3	0.020	0.016	4.28
15:47	19.8	0.020	0.017	4.34
15:48	20.1	0.020	0.018	4.36
15:49	20.0	0.020	0.017	4.38
15:50	20.1	0.020	0.018	4.30
15:51	20.2	0.020	0.018	4.22
15:52	20.4	0.020	0.017	4.20
15:53	19.9	0.020	0.015	4.25
15:54	20.0	0.020	0.019	4.40
15:55	20.1	0.020	0.018	4.42
15:56	19.9	0.020	0.018	4.38
15:57	20.1	0.020	0.018	4.48
15:58	20.1	0.020	0.018	4.44
15:59	20.0	0.020	0.016	4.48

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 4

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/8/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
16:00	20.2	0.020	0.016	4.54
16:01	19.9	0.020	0.019	4.39
16:02	19.8	0.020	0.017	4.48
16:03	19.9	0.020	0.018	4.59
16:04	19.9	0.020	0.017	4.60
16:05	20.2	0.020	0.019	4.61
16:06	20.0	0.020	0.018	4.50
16:07	19.9	0.020	0.017	4.45
16:08	20.2	0.020	0.019	4.40
16:09	20.0	0.020	0.017	4.38
16:10	20.0	0.020	0.018	4.33
16:11	20.0	0.020	0.018	4.49
16:12	19.9	0.020	0.018	4.51
16:13	19.9	0.020	0.018	4.46
16:14	19.9	0.020	0.019	4.44
16:15	19.9	0.020	0.017	4.43
16:16	19.9	0.020	0.018	4.51
16:17	19.9	0.020	0.017	4.50
16:18	20.1	0.020	0.019	4.39
16:19	19.8	0.020	0.018	4.32
16:20	19.8	0.020	0.018	4.33
16:21	20.2	0.020	0.019	4.38
16:22	20.2	0.020	0.018	4.37
16:23	20.0	0.020	0.019	4.39
16:24	19.9	0.020	0.017	4.29
16:25	20.1	0.020	0.015	4.50
16:26	20.0	0.020	0.018	4.55
16:27	19.9	0.020	0.018	4.40
16:28	19.6	0.020	0.018	4.33
16:29	20.1	0.020	0.017	4.19
16:30	20.0	0.020	0.017	4.16
16:31	19.9	0.020	0.020	4.22
16:32	20.0	0.020	0.019	4.34
16:33	19.9	0.020	0.018	4.34
16:34	19.9	0.020	0.018	4.38
16:35	19.8	0.020	0.019	4.42
16:36	19.8	0.020	0.017	4.51
16:37	20.3	0.020	0.018	4.51
16:38	20.0	0.020	0.016	4.40
16:39	20.1	0.020	0.018	4.51
16:40	20.0	0.020	0.017	4.51
16:41	19.9	0.020	0.017	4.53
16:42	19.9	0.020	0.019	4.51
16:43	20.1	0.020	0.018	4.43
16:44	20.2	0.020	0.016	4.61
16:45	20.2	0.020	0.018	4.62
16:46	20.1	0.020	0.017	4.49
16:47	19.9	0.020	0.018	4.54
16:48	20.1	0.020	0.019	4.52
16:49	20.1	0.020	0.019	4.55
16:50	20.3	0.020	0.018	4.54
16:51	20.0	0.020	0.018	4.54

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 4

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/8/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
16:52	20.1	0.020	0.017	4.57
16:53	19.9	0.020	0.019	4.53
16:54	20.0	0.020	0.018	4.44
16:55	19.9	0.020	0.019	4.55
16:56	20.0	0.020	0.017	4.43
16:57	19.9	0.020	0.018	4.47
16:58	19.8	0.020	0.018	4.48
16:59	19.6	0.020	0.017	4.27
17:00	20.1	0.020	0.017	4.42
17:01	20.3	0.020	0.019	4.49
17:02	20.0	0.020	0.018	4.51
17:03	19.9	0.020	0.018	4.50
17:04	19.8	0.020	0.019	4.42
17:05	19.7	0.020	0.019	4.27
17:06	20.0	0.020	0.017	4.37
17:07	20.0	0.020	0.018	4.40
17:08	20.0	0.020	0.017	4.38
17:09	20.0	0.020	0.018	4.41
17:10	20.1	0.020	0.018	4.38
17:11	20.0	0.020	0.019	4.45
17:12	20.2	0.020	0.018	4.40
17:13	20.3	0.020	0.018	4.38
17:14	19.9	0.020	0.018	4.31
17:15	19.6	0.020	0.017	4.30
17:16	19.8	0.020	0.017	4.33
17:17	19.6	0.020	0.015	4.40
17:18	19.7	0.020	0.017	4.52
17:19	20.1	0.020	0.016	4.37
17:20	20.2	0.020	0.018	4.33
17:21	20.1	0.020	0.018	4.31
17:22	20.3	0.020	0.017	4.48
17:23	20.1	0.020	0.018	4.55
17:24	20.0	0.020	0.018	4.56
17:25	19.7	0.020	0.019	4.38
17:26	19.6	0.020	0.018	4.28
17:27	19.8	0.020	0.018	4.34
17:28	19.9	0.020	0.019	4.45
17:29	20.1	0.020	0.018	4.40
17:30	20.2	0.020	0.016	4.38
17:31	20.0	0.020	0.016	4.40
17:32	20.0	0.020	0.017	4.37
17:33	19.9	0.020	0.019	4.51
17:34	20.0	0.020	0.019	4.50
17:35	19.9	0.020	0.016	4.47
17:36	20.0	0.020	0.017	4.50
17:37	20.0	0.020	0.019	4.46
17:38	19.9	0.020	0.016	4.41
17:39	20.2	0.020	0.014	4.49
17:40	20.1	0.020	0.018	4.42
17:41	20.1	0.020	0.018	4.28
17:42	20.3	0.020	0.018	4.37
17:43	20.1	0.020	0.018	4.46

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 4

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/8/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
17:44	20.1	0.020	0.018	4.47
17:45	20.0	0.020	0.018	4.44
17:46	20.1	0.020	0.016	4.30
17:47	20.1	0.020	0.016	4.29
17:48	20.4	0.020	0.018	4.38
17:49	19.9	0.020	0.018	4.51
17:50	19.9	0.020	0.018	4.49
17:51	19.7	0.020	0.018	4.32
17:52	19.9	0.020	0.019	4.40
17:53	19.9	0.020	0.016	4.37
17:54	19.8	0.020	0.019	4.42
17:55	20.0	0.020	0.019	4.57
17:56	19.7	0.020	0.018	4.52
17:57	19.9	0.020	0.019	4.37
17:58	19.9	0.020	0.018	4.43
17:59	20.0	0.020	0.018	4.39
18:00	20.2	0.020	0.019	4.40
18:01	20.2	0.020	0.017	4.49
18:02	20.0	0.020	0.017	4.27
18:03	20.1	0.020	0.018	4.18
18:04	20.0	0.020	0.017	4.23
18:05	20.2	0.020	0.017	4.42
18:06	20.2	0.020	0.016	4.49
18:07	20.0	0.020	0.019	4.43
18:08	20.0	0.020	0.016	4.42
Average	20.0	0.020	0.017	4.42
Minimum	19.6	0.020	0.012	4.16
Maximum	20.4	0.020	0.020	4.69

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 5

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	5
Date:	05/09/2024
Start Time:	08:15
Suspend:	- - -
Restart:	- - -
Suspend:	- - -
Restart:	- - -
End Time:	13:07

Parameter	Units	Mixed amines
Heating value	Btu/lb	6,070
Specific gravity	- - -	1.040

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/9/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
08:15	1,739	109	129	15.0	85.0
08:16	1,739	110	131	15.0	86.6
08:17	1,744	110	132	15.0	87.1
08:18	1,748	111	133	15.0	88.2
08:19	1,748	110	133	15.0	89.2
08:20	1,744	111	134	15.0	89.9
08:21	1,744	112	136	15.0	91.5
08:22	1,746	112	137	15.0	90.5
08:23	1,753	111	137	15.0	91.6
08:24	1,757	111	137	15.0	89.7
08:25	1,757	110	137	15.0	89.3
08:26	1,753	110	136	15.0	89.1
08:27	1,752	110	136	15.0	87.3
08:28	1,751	109	135	15.0	87.1
08:29	1,749	109	134	15.0	87.4
08:30	1,744	108	135	15.0	86.6
08:31	1,741	109	135	15.0	88.1
08:32	1,741	110	135	15.0	88.4
08:33	1,743	111	136	15.0	88.2
08:34	1,745	110	136	15.0	88.7
08:35	1,745	110	136	15.0	88.9
08:36	1,745	109	136	15.0	88.9
08:37	1,745	110	135	15.0	88.4
08:38	1,744	108	135	15.0	85.7
08:39	1,744	107	135	15.0	84.8
08:40	1,744	107	134	15.0	84.5
08:41	1,739	107	133	15.0	84.3
08:42	1,737	107	133	15.0	84.2
08:43	1,731	107	133	15.0	84.0
08:44	1,729	107	133	15.0	83.8
08:45	1,732	107	133	15.0	83.9
08:46	1,735	106	133	15.0	82.4
08:47	1,734	106	133	15.0	83.3
08:48	1,730	108	133	15.0	83.6
08:49	1,731	107	133	15.0	83.7
08:50	1,735	107	133	15.0	83.8
08:51	1,741	106	133	15.0	83.9
08:52	1,740	107	133	15.0	84.0
08:53	1,734	107	133	15.0	84.0
08:54	1,735	108	133	15.0	84.1

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 5

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/9/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
08:55	1,737	108	133	15.0	84.8
08:56	1,737	108	134	15.0	85.2
08:57	1,730	108	134	15.0	86.8
08:58	1,726	109	135	15.0	87.7
08:59	1,730	110	136	15.0	88.2
09:00	1,736	110	136	15.0	87.0
09:01	1,739	110	135	15.0	87.9
09:02	1,742	109	135	15.0	87.3
09:03	1,743	109	135	15.0	87.0
09:04	1,743	109	136	15.0	87.9
09:05	1,738	109	136	14.9	86.6
09:06	1,739	108	135	15.0	87.5
09:07	1,735	108	136	15.1	86.1
09:08	1,735	107	135	15.0	87.5
09:09	1,731	108	136	14.9	87.0
09:10	1,726	110	136	14.9	88.2
09:11	1,725	111	136	14.8	88.6
09:12	1,727	112	137	14.8	87.4
09:13	1,731	110	136	14.8	88.0
09:14	1,732	109	136	14.8	87.1
09:15	1,729	109	136	14.8	87.8
09:16	1,724	109	137	14.8	87.5
09:17	1,725	109	136	14.8	87.5
09:18	1,728	108	136	14.9	86.6
09:19	1,729	107	136	14.9	85.7
09:20	1,722	107	136	15.0	85.1
09:21	1,719	105	135	15.0	85.7
09:22	1,718	106	135	15.0	85.0
09:23	1,715	105	135	15.0	85.8
09:24	1,711	106	135	15.0	84.8
09:25	1,712	105	133	15.0	85.6
09:26	1,709	106	134	15.0	85.2
09:27	1,704	105	135	15.0	86.6
09:28	1,707	106	136	15.0	85.1
09:29	1,710	107	135	15.0	87.4
09:30	1,706	106	136	15.0	86.1
09:31	1,702	105	135	15.0	87.6
09:32	1,702	106	135	15.0	85.4
09:33	1,702	106	135	15.0	85.1
09:34	1,703	105	134	15.0	85.3
09:35	1,702	105	134	15.0	84.8
09:36	1,693	105	133	15.0	85.3
09:37	1,680	106	133	15.0	84.7
09:38	1,676	106	133	15.0	85.8
09:39	1,683	106	134	15.0	85.1
09:40	1,688	106	135	15.0	87.0
09:41	1,690	106	135	15.0	86.8
09:42	1,694	107	135	15.0	87.7
09:43	1,700	107	135	15.0	88.3
09:44	1,701	108	136	15.0	88.4
09:45	1,701	108	136	15.0	88.2
09:46	1,701	107	135	15.0	87.1

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 5

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/9/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
09:47	1,700	106	135	15.0	86.9
09:48	1,699	106	135	15.0	86.1
09:49	1,699	105	134	15.0	85.5
09:50	1,695	106	134	15.0	84.8
09:51	1,689	105	133	15.0	84.6
09:52	1,690	105	133	15.0	85.2
09:53	1,693	105	134	15.0	84.9
09:54	1,689	107	134	15.0	86.6
09:55	1,682	108	134	15.0	87.5
09:56	1,682	108	134	15.0	88.1
09:57	1,689	106	135	15.0	87.9
09:58	1,694	106	136	15.0	88.5
09:59	1,697	107	136	15.0	88.6
10:00	1,700	107	137	15.0	88.6
10:01	1,703	107	137	15.0	87.4
10:02	1,698	106	136	15.0	85.9
10:03	1,692	106	135	15.0	86.5
10:04	1,689	105	135	15.0	85.7
10:05	1,686	106	134	15.0	85.9
10:06	1,684	105	134	15.0	86.2
10:07	1,689	107	134	15.0	85.0
10:08	1,694	106	134	15.0	86.2
10:09	1,694	106	134	15.0	85.2
10:10	1,693	106	133	15.0	86.0
10:11	1,695	106	133	15.0	85.1
10:12	1,694	106	133	15.0	85.5
10:13	1,686	106	134	15.0	84.9
10:14	1,681	106	134	15.0	85.7
10:15	1,685	106	134	15.0	85.6
10:16	1,687	107	134	15.0	86.6
10:17	1,688	108	135	15.0	86.8
10:18	1,687	108	135	15.0	86.8
10:19	1,684	108	135	15.0	88.0
10:20	1,683	109	136	15.0	88.3
10:21	1,687	108	136	15.0	89.2
10:22	1,688	109	136	15.0	90.0
10:23	1,694	109	137	15.0	91.2
10:24	1,702	109	137	15.0	90.2
10:25	1,708	108	138	15.0	91.4
10:26	1,703	108	138	15.0	90.2
10:27	1,697	108	138	15.0	90.8
10:28	1,699	109	138	15.0	89.5
10:29	1,693	108	138	15.0	89.0
10:30	1,693	107	137	15.0	87.9
10:31	1,699	107	136	15.0	87.4
10:32	1,705	108	135	15.0	87.3
10:33	1,703	108	136	15.0	87.1
10:34	1,701	108	135	15.0	88.1
10:35	1,698	108	135	15.0	88.8
10:36	1,698	108	135	15.0	88.8
10:37	1,694	109	136	15.0	88.8
10:38	1,686	108	136	15.0	89.2

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 5

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/9/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
10:39	1,681	109	136	15.0	89.6
10:40	1,687	108	136	15.0	89.8
10:41	1,693	108	136	15.0	89.8
10:42	1,698	108	138	15.0	89.5
10:43	1,701	108	137	15.0	89.2
10:44	1,702	108	135	15.0	89.0
10:45	1,701	108	134	15.0	86.6
10:46	1,707	107	134	15.0	87.2
10:47	1,707	106	135	15.0	86.5
10:48	1,696	107	135	15.0	87.8
10:49	1,689	108	136	15.0	88.3
10:50	1,690	109	135	15.0	88.6
10:51	1,694	109	136	15.0	89.1
10:52	1,694	109	135	15.0	89.3
10:53	1,699	108	135	15.0	89.5
10:54	1,694	109	136	15.0	89.5
10:55	1,693	109	137	15.0	89.3
10:56	1,693	109	136	15.0	89.9
10:57	1,696	109	137	15.0	90.4
10:58	1,705	109	137	15.0	91.0
10:59	1,705	110	138	15.0	91.4
11:00	1,704	111	137	15.0	92.7
11:01	1,708	112	139	15.0	93.3
11:02	1,714	112	138	15.0	93.4
11:03	1,720	112	138	15.0	94.6
11:04	1,717	112	140	15.0	95.2
11:05	1,719	113	141	15.0	96.6
11:06	1,720	114	141	15.0	97.6
11:07	1,718	114	142	15.0	96.4
11:08	1,717	113	142	15.0	96.9
11:09	1,720	112	142	15.0	95.0
11:10	1,722	111	141	15.0	94.6
11:11	1,724	112	140	15.0	94.4
11:12	1,717	112	139	15.0	93.7
11:13	1,718	112	139	15.0	93.9
11:14	1,719	112	138	15.0	93.8
11:15	1,713	112	138	15.0	92.6
11:16	1,712	112	138	15.0	92.9
11:17	1,717	111	138	15.0	93.3
11:18	1,724	111	139	15.0	93.7
11:19	1,721	111	139	15.0	93.9
11:20	1,715	111	139	15.0	92.5
11:21	1,710	110	138	15.0	92.2
11:22	1,706	111	138	15.0	91.1
11:23	1,709	110	137	15.0	91.4
11:24	1,706	111	138	15.0	90.6
11:25	1,702	110	137	15.0	91.2
11:26	1,701	110	138	15.0	90.6
11:27	1,704	111	138	15.0	92.6
11:28	1,702	112	139	15.0	93.2
11:29	1,705	112	139	15.0	93.4
11:30	1,714	111	139	15.0	92.1

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 5

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/9/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
11:31	1,716	111	139	15.0	92.9
11:32	1,716	111	139	15.0	91.7
11:33	1,718	111	138	15.0	92.6
11:34	1,717	111	139	15.0	92.7
11:35	1,717	112	139	15.0	92.0
11:36	1,712	111	139	15.0	93.3
11:37	1,709	112	139	15.0	93.7
11:38	1,711	112	140	15.0	93.9
11:39	1,713	112	140	15.0	94.3
11:40	1,715	113	140	15.0	94.9
11:41	1,717	112	141	15.0	94.6
11:42	1,716	113	140	15.0	94.4
11:43	1,714	112	139	15.0	93.8
11:44	1,717	113	139	15.0	94.8
11:45	1,719	113	139	15.0	94.4
11:46	1,717	113	139	15.0	94.1
11:47	1,719	112	140	15.0	94.7
11:48	1,719	113	141	15.0	94.9
11:49	1,714	113	141	15.0	96.4
11:50	1,711	115	141	15.0	95.5
11:51	1,717	115	142	15.0	96.9
11:52	1,729	114	141	15.0	95.6
11:53	1,729	114	141	15.0	96.1
11:54	1,721	114	141	15.0	95.2
11:55	1,720	114	140	15.0	95.9
11:56	1,720	114	140	15.0	95.1
11:57	1,721	114	140	15.0	94.4
11:58	1,733	112	140	15.0	94.8
11:59	1,737	113	140	15.0	94.4
12:00	1,725	113	140	15.0	94.2
12:01	1,715	114	139	15.0	93.9
12:02	1,718	114	139	15.0	94.0
12:03	1,726	115	139	15.0	95.2
12:04	1,722	114	140	15.0	95.4
12:05	1,717	115	141	15.0	96.4
12:06	1,715	115	142	15.0	97.2
12:07	1,717	117	143	15.0	97.9
12:08	1,721	116	143	15.0	98.1
12:09	1,724	116	142	15.0	99.1
12:10	1,726	116	143	15.0	99.0
12:11	1,725	116	144	15.0	100
12:12	1,725	116	143	15.0	98.8
12:13	1,731	115	143	15.0	98.6
12:14	1,733	115	143	15.0	96.5
12:15	1,729	113	141	15.0	95.9
12:16	1,722	114	140	15.0	95.2
12:17	1,719	113	140	15.0	94.7
12:18	1,719	113	140	15.0	94.4
12:19	1,725	113	140	15.0	94.2
12:20	1,723	113	139	15.0	93.9
12:21	1,718	112	139	15.0	93.7
12:22	1,716	112	139	15.0	93.7

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 5

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/9/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
12:23	1,716	112	138	15.0	93.9
12:24	1,714	113	139	15.0	94.0
12:25	1,716	112	139	15.0	91.9
12:26	1,730	111	139	15.0	92.1
12:27	1,730	111	138	15.0	91.1
12:28	1,718	112	138	15.0	91.9
12:29	1,715	112	138	15.0	91.3
12:30	1,716	111	138	15.0	91.2
12:31	1,718	111	137	15.0	90.5
12:32	1,714	111	137	15.0	91.4
12:33	1,706	112	138	15.0	92.1
12:34	1,712	112	138	15.0	92.9
12:35	1,718	112	139	15.0	93.4
12:36	1,717	112	139	15.0	93.5
12:37	1,721	113	139	15.0	94.1
12:38	1,728	113	139	15.0	94.3
12:39	1,725	113	139	15.0	94.4
12:40	1,721	113	140	15.0	94.8
12:41	1,718	113	140	15.0	94.2
12:42	1,717	113	140	15.0	94.1
12:43	1,716	111	139	15.0	91.2
12:44	1,717	111	138	15.0	92.0
12:45	1,711	110	137	15.0	90.2
12:46	1,710	111	136	15.0	89.8
12:47	1,701	109	135	15.0	90.0
12:48	1,706	109	136	15.0	89.6
12:49	1,704	109	136	15.0	89.6
12:50	1,702	110	137	15.0	89.9
12:51	1,700	110	136	15.0	89.5
12:52	1,696	110	137	15.0	89.9
12:53	1,698	111	136	15.0	90.0
12:54	1,700	111	137	15.0	91.6
12:55	1,706	111	139	15.0	91.4
12:56	1,710	111	138	15.0	92.0
12:57	1,711	111	139	15.0	91.5
12:58	1,708	111	138	15.0	92.6
12:59	1,702	111	139	15.0	92.2
13:00	1,704	111	138	15.0	93.2
13:01	1,700	112	138	15.0	92.6
13:02	1,708	112	138	15.0	92.6
13:03	1,708	113	137	15.0	93.2
13:04	1,707	112	138	15.0	93.6
13:05	1,699	113	139	15.0	93.8
13:06	1,692	113	139	15.0	93.8
13:07	1,686	114	139	15.0	94.1
Average	1,714	110	137	15.0	90.0
Minimum	1,676	105	129	14.8	82.4
Maximum	1,757	117	144	15.1	100

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 5

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	5
Date:	05/09/2024
Start Time:	08:15
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	13:07

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/9/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
08:15	21.9	0.560	0.080	4.26
08:16	21.8	0.560	0.078	4.29
08:17	21.9	0.250	0.077	4.28
08:18	21.9	0.070	0.074	4.34
08:19	21.8	0.020	0.075	4.36
08:20	21.8	0.020	0.080	4.43
08:21	21.9	0.020	0.077	4.46
08:22	22.1	0.020	0.082	4.46
08:23	21.9	0.020	0.077	4.45
08:24	22.0	0.020	0.078	4.47
08:25	22.3	0.020	0.074	4.49
08:26	21.9	0.020	0.078	4.48
08:27	22.1	0.020	0.076	4.49
08:28	21.8	0.020	0.077	4.53
08:29	21.8	0.020	0.077	4.52
08:30	21.8	0.020	0.078	4.60
08:31	21.8	0.020	0.081	4.64
08:32	21.7	0.020	0.077	4.60
08:33	22.0	0.020	0.076	4.59
08:34	21.9	0.020	0.079	4.53
08:35	21.8	0.020	0.077	4.54
08:36	21.9	0.020	0.077	4.53
08:37	21.9	0.020	0.075	4.46
08:38	21.9	0.020	0.077	4.56
08:39	21.7	0.020	0.078	4.66
08:40	22.0	0.020	0.080	4.69
08:41	21.9	0.020	0.067	4.76
08:42	21.9	0.020	0.017	4.75
08:43	22.0	0.020	0.019	4.74
08:44	22.1	0.020	0.019	4.70
08:45	21.8	0.020	0.013	4.62
08:46	22.1	0.020	0.019	4.72
08:47	22.0	0.020	0.018	4.87
08:48	22.0	0.020	0.019	4.78
08:49	21.9	0.020	0.015	4.68
08:50	21.8	0.020	0.013	4.73
08:51	21.7	0.020	0.019	4.68
08:52	21.9	0.020	0.018	4.75
08:53	21.9	0.020	0.018	4.70
08:54	21.9	0.020	0.017	4.69

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 5

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/9/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
08:55	21.9	0.020	0.018	4.71
08:56	21.9	0.020	0.018	4.85
08:57	21.8	0.020	0.017	4.85
08:58	21.9	0.020	0.019	4.83
08:59	21.8	0.020	0.015	4.74
09:00	21.6	0.020	0.017	4.66
09:01	21.9	0.020	0.019	4.65
09:02	22.1	0.020	0.016	4.61
09:03	22.2	0.020	0.015	4.70
09:04	21.8	0.020	0.018	4.72
09:05	21.8	0.020	0.020	4.66
09:06	21.9	0.020	0.017	4.66
09:07	22.1	0.020	0.016	4.68
09:08	22.0	0.020	0.017	4.81
09:09	22.0	0.020	0.017	4.81
09:10	21.9	0.020	0.019	4.71
09:11	21.9	0.020	0.015	4.53
09:12	21.8	0.020	0.017	4.46
09:13	21.9	0.020	0.019	4.45
09:14	22.0	0.020	0.014	4.55
09:15	22.0	0.020	0.019	4.68
09:16	21.9	0.020	0.020	4.68
09:17	21.8	0.020	0.014	4.60
09:18	21.9	0.020	0.020	4.58
09:19	21.9	0.020	0.014	4.68
09:20	22.0	0.020	0.015	4.75
09:21	21.9	0.020	0.017	4.89
09:22	21.9	0.020	0.018	5.01
09:23	21.9	0.020	0.018	4.96
09:24	22.0	0.020	0.018	4.85
09:25	21.9	0.020	0.016	4.84
09:26	21.9	0.020	0.017	4.92
09:27	22.2	0.020	0.017	4.99
09:28	21.9	0.020	0.018	4.97
09:29	21.8	0.020	0.019	4.95
09:30	21.9	0.020	0.017	4.96
09:31	21.7	0.020	0.017	4.93
09:32	21.6	0.020	0.018	4.79
09:33	22.0	0.020	0.020	4.79
09:34	22.0	0.020	0.019	4.82
09:35	22.1	0.020	0.017	4.83
09:36	21.7	0.020	0.017	4.73
09:37	21.8	0.020	0.016	4.78
09:38	21.8	0.020	0.017	4.79
09:39	21.9	0.020	0.020	4.92
09:40	21.9	0.020	0.017	4.92
09:41	22.0	0.020	0.017	4.92
09:42	21.9	0.020	0.015	4.87
09:43	21.9	0.020	0.018	4.77
09:44	21.7	0.020	0.016	4.74
09:45	22.0	0.020	0.017	4.58
09:46	21.9	0.020	0.017	4.65

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Utility Boiler No. 3

Run 5

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/9/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
09:47	22.0	0.020	0.016	4.79
09:48	21.9	0.020	0.017	4.81
09:49	22.0	0.020	0.018	4.67
09:50	21.7	0.020	0.017	4.74
09:51	21.9	0.020	0.017	4.66
09:52	21.9	0.020	0.016	4.71
09:53	21.9	0.020	0.017	4.94
09:54	21.9	0.020	0.017	4.86
09:55	22.0	0.020	0.018	4.61
09:56	21.8	0.020	0.016	4.55
09:57	22.0	0.020	0.017	4.59
09:58	22.1	0.020	0.018	4.84
09:59	21.8	0.020	0.016	4.81
10:00	22.0	0.020	0.017	4.76
10:01	22.1	0.020	0.017	4.74
10:02	22.0	0.020	0.016	4.78
10:03	22.0	0.020	0.016	4.87
10:04	21.9	0.020	0.016	4.79
10:05	21.9	0.020	0.020	4.83
10:06	22.0	0.020	0.018	4.82
10:07	22.0	0.020	0.017	4.75
10:08	21.6	0.020	0.017	4.71
10:09	21.7	0.020	0.017	4.66
10:10	22.0	0.020	0.016	4.60
10:11	21.9	0.020	0.018	4.67
10:12	21.9	0.020	0.016	4.76
10:13	22.0	0.020	0.015	4.83
10:14	22.0	0.020	0.016	4.82
10:15	22.0	0.020	0.016	4.79
10:16	21.9	0.020	0.019	4.76
10:17	21.9	0.020	0.020	4.78
10:18	22.0	0.020	0.020	4.79
10:19	22.0	0.020	0.020	4.68
10:20	21.9	0.020	0.016	4.66
10:21	21.8	0.020	0.020	4.68
10:22	21.8	0.020	0.020	4.71
10:23	21.8	0.020	0.018	4.78
10:24	21.8	0.020	0.020	4.78
10:25	22.0	0.020	0.010	4.78
10:26	21.7	0.020	0.014	4.78
10:27	22.0	0.020	0.020	4.75
10:28	21.9	0.020	0.020	4.73
10:29	21.9	0.020	0.020	4.67
10:30	21.9	0.020	0.020	4.63
10:31	21.8	0.020	0.016	4.71
10:32	21.7	0.020	0.020	4.70
10:33	21.8	0.020	0.016	4.69
10:34	21.9	0.020	0.014	4.71
10:35	21.9	0.020	0.020	4.72
10:36	21.9	0.020	0.011	4.74
10:37	21.9	0.020	0.014	4.69
10:38	21.8	0.020	0.020	4.57

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 5

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/9/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
10:39	22.1	0.020	0.013	4.66
10:40	22.2	0.020	0.020	4.59
10:41	21.9	0.020	0.019	4.69
10:42	21.8	0.020	0.011	4.77
10:43	21.9	0.020	0.018	4.64
10:44	21.9	0.020	0.019	4.47
10:45	21.9	0.020	0.017	4.41
10:46	22.0	0.020	0.013	4.56
10:47	21.9	0.020	0.020	4.86
10:48	22.0	0.020	0.019	4.94
10:49	21.8	0.020	0.017	4.86
10:50	22.0	0.020	0.018	4.70
10:51	22.1	0.020	0.017	4.66
10:52	21.8	0.020	0.017	4.59
10:53	21.9	0.020	0.018	4.69
10:54	21.9	0.020	0.017	4.69
10:55	22.1	0.020	0.016	4.80
10:56	22.1	0.020	0.018	4.76
10:57	22.2	0.020	0.017	4.81
10:58	22.1	0.020	0.017	4.77
10:59	22.0	0.020	0.017	4.73
11:00	21.9	0.020	0.019	4.66
11:01	22.1	0.020	0.019	4.56
11:02	22.3	0.020	0.018	4.45
11:03	21.8	0.020	0.017	4.54
11:04	21.9	0.020	0.018	4.75
11:05	21.9	0.020	0.018	4.71
11:06	21.9	0.020	0.017	4.70
11:07	21.9	0.020	0.017	4.65
11:08	22.0	0.020	0.018	4.59
11:09	21.9	0.020	0.014	4.64
11:10	22.2	0.020	0.016	4.67
11:11	22.0	0.020	0.017	4.53
11:12	21.9	0.020	0.017	4.39
11:13	22.2	0.020	0.017	4.44
11:14	22.2	0.020	0.018	4.40
11:15	22.0	0.020	0.016	4.40
11:16	21.8	0.020	0.017	4.38
11:17	22.0	0.020	0.018	4.43
11:18	22.2	0.020	0.017	4.47
11:19	22.2	0.020	0.018	4.49
11:20	21.9	0.020	0.018	4.54
11:21	22.1	0.020	0.018	4.57
11:22	22.1	0.020	0.016	4.58
11:23	21.9	0.020	0.017	4.58
11:24	21.8	0.020	0.019	4.57
11:25	21.6	0.020	0.018	4.45
11:26	21.9	0.020	0.020	4.67
11:27	22.3	0.020	0.019	4.73
11:28	21.9	0.020	0.017	4.61
11:29	22.0	0.020	0.017	4.57
11:30	22.0	0.020	0.018	4.60

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Utility Boiler No. 3

Run 5

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/9/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
11:31	21.8	0.020	0.018	4.66
11:32	22.0	0.020	0.018	4.70
11:33	21.9	0.020	0.017	4.59
11:34	21.9	0.020	0.015	4.57
11:35	21.9	0.020	0.016	4.62
11:36	22.0	0.020	0.018	4.64
11:37	21.9	0.020	0.017	4.64
11:38	21.9	0.020	0.017	4.61
11:39	21.8	0.020	0.015	4.57
11:40	21.8	0.020	0.016	4.59
11:41	21.9	0.020	0.015	4.57
11:42	22.0	0.020	0.016	4.45
11:43	22.1	0.020	0.015	4.44
11:44	22.1	0.020	0.017	4.52
11:45	22.0	0.020	0.016	4.55
11:46	22.0	0.020	0.017	4.53
11:47	22.0	0.020	0.015	4.56
11:48	21.9	0.020	0.016	4.77
11:49	21.9	0.020	0.017	4.70
11:50	21.8	0.020	0.017	4.58
11:51	22.0	0.020	0.019	4.50
11:52	22.0	0.020	0.020	4.46
11:53	21.9	0.020	0.019	4.52
11:54	22.0	0.020	0.017	4.47
11:55	22.1	0.020	0.017	4.40
11:56	21.9	0.020	0.018	4.37
11:57	21.9	0.020	0.018	4.37
11:58	22.0	0.020	0.018	4.44
11:59	22.1	0.020	0.017	4.57
12:00	21.9	0.020	0.018	4.48
12:01	21.8	0.020	0.017	4.35
12:02	22.0	0.020	0.017	4.38
12:03	21.9	0.020	0.017	4.37
12:04	22.0	0.020	0.017	4.57
12:05	22.0	0.020	0.016	4.63
12:06	22.1	0.020	0.016	4.63
12:07	22.1	0.020	0.017	4.56
12:08	22.0	0.020	0.018	4.38
12:09	22.0	0.020	0.018	4.44
12:10	22.0	0.020	0.015	4.66
12:11	22.0	0.020	0.016	4.46
12:12	21.8	0.020	0.016	4.34
12:13	21.6	0.020	0.020	4.36
12:14	21.7	0.020	0.013	4.40
12:15	21.9	0.020	0.016	4.47
12:16	22.0	0.020	0.019	4.45
12:17	22.1	0.020	0.017	4.44
12:18	21.8	0.020	0.015	4.43
12:19	22.1	0.020	0.016	4.41
12:20	22.1	0.020	0.017	4.36
12:21	22.1	0.020	0.018	4.42
12:22	22.0	0.020	0.017	4.40

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 5

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/9/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
12:23	22.2	0.020	0.016	4.44
12:24	22.1	0.020	0.018	4.40
12:25	22.0	0.020	0.017	4.38
12:26	22.1	0.020	0.020	4.52
12:27	21.9	0.020	0.018	4.58
12:28	22.0	0.020	0.018	4.58
12:29	21.9	0.020	0.016	4.47
12:30	22.0	0.020	0.017	4.43
12:31	22.1	0.020	0.017	4.47
12:32	22.1	0.020	0.019	4.62
12:33	21.9	0.020	0.017	4.63
12:34	22.1	0.020	0.018	4.58
12:35	22.2	0.020	0.017	4.57
12:36	21.9	0.020	0.016	4.56
12:37	22.0	0.020	0.018	4.57
12:38	21.9	0.020	0.017	4.59
12:39	22.0	0.020	0.017	4.57
12:40	21.9	0.020	0.016	4.57
12:41	21.8	0.020	0.018	4.58
12:42	21.8	0.020	0.017	4.45
12:43	22.0	0.020	0.017	4.47
12:44	22.0	0.020	0.017	4.52
12:45	22.1	0.020	0.018	4.42
12:46	22.0	0.020	0.017	4.34
12:47	22.1	0.020	0.018	4.37
12:48	22.2	0.020	0.017	4.50
12:49	22.3	0.020	0.017	4.60
12:50	22.3	0.020	0.017	4.49
12:51	22.1	0.020	0.018	4.51
12:52	21.8	0.020	0.018	4.53
12:53	22.1	0.020	0.016	4.60
12:54	22.1	0.020	0.017	4.68
12:55	22.1	0.020	0.017	4.76
12:56	22.0	0.020	0.020	4.74
12:57	21.7	0.020	0.017	4.68
12:58	21.5	0.020	0.017	4.62
12:59	21.8	0.020	0.017	4.63
13:00	21.9	0.020	0.015	4.65
13:01	21.8	0.020	0.015	4.55
13:02	22.0	0.020	0.018	4.59
13:03	22.1	0.020	0.017	4.54
13:04	22.0	0.020	0.017	4.53
13:05	21.9	0.020	0.018	4.56
13:06	22.0	0.020	0.017	4.58
13:07	22.1	0.020	0.019	4.51
Average	21.9	0.025	0.023	4.63
Minimum	21.5	0.020	0.010	4.26
Maximum	22.3	0.560	0.082	5.01

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 6

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	6
Date:	05/09/2024
Start Time:	14:00
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	18:33

Parameter	Units	Mixed amines
Heating value	Btu/lb	6,290
Specific gravity	---	0.985

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/9/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
14:00	1,754	114	142	15.0	96.4
14:01	1,737	115	139	15.0	94.9
14:02	1,721	115	137	15.0	95.0
14:03	1,710	116	138	15.0	95.5
14:04	1,710	116	139	15.0	96.2
14:05	1,718	116	139	15.0	97.6
14:06	1,721	116	141	15.0	99.6
14:07	1,722	118	143	15.0	101
14:08	1,720	119	145	15.0	103
14:09	1,720	121	146	15.1	105
14:10	1,724	121	149	15.0	107
14:11	1,732	121	150	15.0	108
14:12	1,737	122	150	15.0	110
14:13	1,737	121	150	15.0	109
14:14	1,741	121	149	15.0	108
14:15	1,749	119	147	15.0	106
14:16	1,754	118	145	15.0	102
14:17	1,755	116	143	15.0	100
14:18	1,750	115	141	15.0	96.7
14:19	1,744	115	141	15.0	96.6
14:20	1,735	114	139	15.0	95.5
14:21	1,720	114	138	15.0	94.7
14:22	1,716	112	137	15.0	94.3
14:23	1,709	113	137	15.0	94.1
14:24	1,704	114	137	15.0	94.0
14:25	1,703	114	138	15.0	93.9
14:26	1,707	114	138	15.0	93.8
14:27	1,709	114	137	15.0	93.8
14:28	1,710	114	139	15.0	94.8
14:29	1,705	114	137	15.0	94.6
14:30	1,704	113	138	15.0	95.0
14:31	1,706	113	136	15.0	94.5
14:32	1,704	113	137	15.0	94.0
14:33	1,704	112	138	15.0	93.9
14:34	1,705	112	139	15.0	91.7
14:35	1,707	113	138	15.0	92.8
14:36	1,711	114	139	15.0	93.5
14:37	1,713	115	137	15.0	94.0
14:38	1,719	115	139	15.0	95.4
14:39	1,726	116	140	15.0	97.4

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 6

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/9/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
14:40	1,723	117	140	15.0	99.7
14:41	1,714	119	144	15.0	102
14:42	1,713	119	146	15.0	103
14:43	1,722	119	146	15.0	103
14:44	1,731	119	145	15.0	103
14:45	1,736	120	144	15.0	105
14:46	1,742	119	147	15.0	105
14:47	1,744	119	148	15.0	105
14:48	1,750	118	147	15.0	105
14:49	1,748	117	147	15.0	102
14:50	1,748	117	145	15.0	99.8
14:51	1,743	117	141	15.0	99.1
14:52	1,744	117	140	15.0	98.9
14:53	1,752	115	142	15.0	96.5
14:54	1,742	116	142	15.0	97.3
14:55	1,735	115	142	15.0	96.7
14:56	1,738	116	140	15.0	97.6
14:57	1,731	116	141	15.0	98.3
14:58	1,728	117	142	15.0	98.4
14:59	1,731	117	142	15.0	99.1
15:00	1,726	116	143	15.0	99.0
15:01	1,721	117	144	15.0	99.0
15:02	1,724	116	143	15.0	99.6
15:03	1,727	118	144	15.0	99.3
15:04	1,727	117	143	15.0	98.8
15:05	1,735	116	143	15.0	98.7
15:06	1,737	116	143	15.0	98.5
15:07	1,731	116	142	15.0	98.3
15:08	1,730	117	142	15.0	98.4
15:09	1,730	116	142	15.0	98.6
15:10	1,725	117	143	15.0	99.1
15:11	1,727	117	143	15.0	99.4
15:12	1,729	117	143	15.0	99.5
15:13	1,732	116	144	15.0	100
15:14	1,735	116	145	15.0	99.2
15:15	1,737	116	144	15.0	98.8
15:16	1,736	116	143	15.0	98.0
15:17	1,734	115	142	15.0	96.9
15:18	1,734	115	141	15.0	96.5
15:19	1,734	116	141	15.0	96.6
15:20	1,734	116	140	15.0	97.7
15:21	1,729	116	141	15.0	98.0
15:22	1,725	115	141	15.0	97.8
15:23	1,727	116	142	15.0	97.1
15:24	1,729	115	142	15.0	97.8
15:25	1,728	116	142	15.0	97.6
15:26	1,727	116	142	15.0	96.4
15:27	1,729	115	142	15.0	96.5
15:28	1,728	114	142	15.0	95.2
15:29	1,723	114	141	15.0	95.4
15:30	1,717	115	141	15.0	95.3
15:31	1,713	114	141	15.0	95.3

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 6

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/9/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
15:32	1,708	115	141	15.0	95.5
15:33	1,709	114	141	15.0	95.3
15:34	1,713	116	141	15.0	96.6
15:35	1,716	116	142	15.0	97.6
15:36	1,719	117	142	15.0	98.0
15:37	1,722	116	143	15.0	98.6
15:38	1,726	117	142	15.0	98.6
15:39	1,727	116	142	15.0	98.6
15:40	1,725	115	142	15.0	97.3
15:41	1,721	115	142	15.0	97.0
15:42	1,717	114	142	15.0	95.5
15:43	1,722	115	141	15.0	96.1
15:44	1,728	114	141	15.0	95.5
15:45	1,727	115	141	15.0	96.1
15:46	1,724	115	141	15.0	96.3
15:47	1,722	116	141	15.0	96.3
15:48	1,721	116	142	15.0	97.4
15:49	1,721	116	143	15.0	96.8
15:50	1,721	115	142	15.0	97.6
15:51	1,724	115	141	15.0	96.3
15:52	1,727	115	141	15.0	96.8
15:53	1,728	115	141	15.0	95.6
15:54	1,726	114	142	15.0	96.8
15:55	1,724	115	143	15.0	95.6
15:56	1,722	114	143	15.0	97.3
15:57	1,720	114	142	15.0	96.0
15:58	1,721	114	142	15.0	96.7
15:59	1,723	115	142	15.0	95.2
16:00	1,726	114	141	15.0	95.0
16:01	1,727	114	140	15.0	94.7
16:02	1,724	114	140	15.0	94.8
16:03	1,721	114	141	15.0	95.5
16:04	1,721	115	141	15.0	95.6
16:05	1,716	115	141	15.0	97.3
16:06	1,712	115	142	15.0	96.7
16:07	1,715	115	142	15.0	97.6
16:08	1,722	116	142	15.0	98.2
16:09	1,726	116	143	15.0	98.5
16:10	1,729	117	143	15.0	98.8
16:11	1,732	117	143	15.0	99.8
16:12	1,736	116	144	15.0	99.3
16:13	1,737	118	144	15.0	99.0
16:14	1,734	117	143	15.0	99.6
16:15	1,734	117	144	15.0	99.9
16:16	1,738	116	144	15.0	99.7
16:17	1,739	116	144	15.0	99.5
16:18	1,735	116	144	15.0	100
16:19	1,731	117	144	15.0	100
16:20	1,730	116	144	15.0	100
16:21	1,733	117	144	15.0	99.4
16:22	1,734	117	143	15.0	99.2
16:23	1,733	117	143	15.0	99.0

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Utility Boiler No. 3

Run 6

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/9/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
16:24	1,730	116	143	15.0	98.9
16:25	1,727	116	143	15.0	98.8
16:26	1,724	117	143	15.0	98.7
16:27	1,726	116	142	15.0	97.2
16:28	1,730	116	141	15.0	97.6
16:29	1,732	115	142	15.0	98.2
16:30	1,731	118	143	15.0	98.5
16:31	1,729	116	142	15.0	98.7
16:32	1,732	116	144	15.0	99.3
16:33	1,735	115	145	15.0	99.2
16:34	1,734	116	143	15.0	99.1
16:35	1,732	115	143	15.0	98.0
16:36	1,733	115	142	15.0	96.2
16:37	1,732	114	141	15.0	96.2
16:38	1,729	114	142	15.0	95.2
16:39	1,721	115	141	15.0	96.0
16:40	1,721	114	140	15.0	95.2
16:41	1,721	114	141	15.0	95.8
16:42	1,710	114	141	15.0	95.2
16:43	1,708	115	141	15.0	97.2
16:44	1,714	114	141	15.0	96.2
16:45	1,725	115	141	15.0	96.6
16:46	1,722	114	141	15.0	95.7
16:47	1,722	115	142	15.0	95.8
16:48	1,721	114	140	15.0	95.1
16:49	1,723	114	141	15.0	94.8
16:50	1,724	113	140	15.0	94.9
16:51	1,721	114	141	15.0	94.6
16:52	1,718	114	141	15.0	95.4
16:53	1,715	114	141	15.0	94.7
16:54	1,717	114	140	15.0	96.1
16:55	1,714	114	141	15.0	95.1
16:56	1,716	114	141	15.0	95.6
16:57	1,718	114	141	15.0	95.6
16:58	1,717	114	141	15.0	96.0
16:59	1,718	114	141	15.0	95.4
17:00	1,721	114	141	15.0	96.0
17:01	1,724	115	141	15.0	95.7
17:02	1,726	115	142	15.0	96.6
17:03	1,723	115	142	15.0	97.5
17:04	1,719	116	143	15.0	98.3
17:05	1,716	116	143	15.0	98.2
17:06	1,719	115	143	15.0	98.5
17:07	1,727	116	143	15.0	98.8
17:08	1,729	116	143	15.0	98.9
17:09	1,723	119	143	15.0	101
17:10	1,719	119	144	15.0	102
17:11	1,724	120	145	15.0	102
17:12	1,728	120	147	15.0	104
17:13	1,735	120	149	15.0	106
17:14	1,738	120	150	15.0	107
17:15	1,746	119	150	15.0	105

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 6

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/9/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
17:16	1,753	119	148	15.0	104
17:17	1,755	117	147	15.0	103
17:18	1,753	116	146	15.0	100
17:19	1,752	116	145	15.0	98.3
17:20	1,749	115	143	15.0	96.7
17:21	1,744	114	142	15.0	96.5
17:22	1,738	114	141	15.0	95.2
17:23	1,735	114	140	15.0	94.4
17:24	1,729	113	140	15.0	94.0
17:25	1,724	113	140	15.0	94.3
17:26	1,722	113	140	15.0	94.0
17:27	1,718	113	141	15.0	93.6
17:28	1,717	113	140	15.0	93.4
17:29	1,723	112	139	15.0	91.6
17:30	1,726	113	139	15.0	92.5
17:31	1,719	113	140	15.0	93.2
17:32	1,712	114	140	15.0	91.8
17:33	1,712	113	139	15.0	92.9
17:34	1,713	113	139	15.0	93.3
17:35	1,715	113	140	15.0	94.2
17:36	1,719	114	141	15.0	94.3
17:37	1,717	115	142	15.0	96.3
17:38	1,713	116	142	15.0	97.0
17:39	1,713	116	143	15.0	97.5
17:40	1,712	116	144	15.0	97.9
17:41	1,711	116	144	15.0	98.1
17:42	1,713	115	144	15.0	98.3
17:43	1,718	115	143	15.0	98.5
17:44	1,722	114	143	15.0	97.9
17:45	1,728	114	143	15.0	95.3
17:46	1,731	113	142	15.0	94.8
17:47	1,725	114	141	15.0	94.4
17:48	1,721	114	140	15.0	94.2
17:49	1,722	114	140	15.0	94.0
17:50	1,720	113	140	15.0	93.7
17:51	1,713	113	140	15.0	93.9
17:52	1,712	113	140	15.0	94.6
17:53	1,714	113	140	15.0	94.1
17:54	1,712	114	141	15.0	94.6
17:55	1,709	114	141	15.0	94.8
17:56	1,709	114	142	15.0	94.9
17:57	1,712	114	142	15.0	95.7
17:58	1,715	114	142	15.0	95.0
17:59	1,718	114	142	15.0	95.5
18:00	1,722	114	142	15.0	94.7
18:01	1,724	114	141	15.0	95.8
18:02	1,721	113	141	15.0	94.4
18:03	1,720	114	141	15.0	94.9
18:04	1,719	113	140	15.0	94.6
18:05	1,718	114	141	15.0	94.7
18:06	1,719	114	140	15.0	95.0
18:07	1,719	115	141	15.0	96.0

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 6

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/9/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
18:08	1,716	115	142	15.0	97.4
18:09	1,714	117	143	15.0	99.0
18:10	1,714	117	143	15.0	99.8
18:11	1,721	118	145	15.0	100
18:12	1,731	117	145	15.0	101
18:13	1,736	117	145	15.0	100
18:14	1,735	118	145	15.0	102
18:15	1,734	118	146	15.0	99.8
18:16	1,740	118	145	15.0	101
18:17	1,741	116	145	15.0	99.8
18:18	1,736	117	145	15.0	100.5
18:19	1,732	117	145	15.0	99.5
18:20	1,730	117	144	15.0	99.8
18:21	1,732	117	143	15.0	99.4
18:22	1,731	118	144	15.0	99.0
18:23	1,730	117	143	15.0	99.3
18:24	1,729	117	144	15.0	99.2
18:25	1,732	116	145	15.0	100
18:26	1,735	117	145	15.0	99.2
18:27	1,734	117	145	15.0	101
18:28	1,733	117	144	15.0	99.2
18:29	1,736	116	144	15.0	99.6
18:30	1,738	116	144	15.0	99.0
18:31	1,735	117	144	15.0	99.3
18:32	1,735	117	143	15.0	99.3
18:33	1,736	117	145	15.0	98.9
Average	1,726	116	142	15.0	97.7
Minimum	1,703	112	136	15.0	91.6
Maximum	1,755	122	150	15.1	110

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 6

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	6
Date:	05/09/2024
Start Time:	14:00
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	18:33

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/9/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
14:00	22.1	0.020	0.020	4.32
14:01	21.9	0.020	0.020	4.09
14:02	21.7	0.020	0.020	4.05
14:03	21.8	0.020	0.014	4.14
14:04	21.8	0.020	0.015	4.26
14:05	21.9	0.020	0.019	4.35
14:06	21.9	0.020	0.020	4.50
14:07	21.7	0.020	0.020	4.63
14:08	21.8	0.020	0.018	4.53
14:09	22.1	0.020	0.020	4.61
14:10	22.0	0.020	0.011	4.64
14:11	22.3	0.020	0.016	4.62
14:12	21.8	0.020	0.015	4.58
14:13	21.9	0.020	0.016	4.57
14:14	22.0	0.020	0.014	4.36
14:15	22.2	0.020	0.020	4.22
14:16	22.2	0.020	0.019	4.09
14:17	22.0	0.020	0.019	4.21
14:18	22.0	0.020	0.017	4.27
14:19	21.9	0.020	0.017	4.37
14:20	22.1	0.020	0.012	4.38
14:21	22.0	0.020	0.016	4.27
14:22	22.0	0.020	0.016	4.25
14:23	22.0	0.020	0.018	4.28
14:24	21.9	0.020	0.019	4.29
14:25	22.0	0.020	0.017	4.30
14:26	22.0	0.020	0.017	4.28
14:27	22.0	0.020	0.017	4.33
14:28	22.0	0.020	0.019	4.50
14:29	21.8	0.020	0.018	4.48
14:30	21.7	0.020	0.018	4.46
14:31	21.6	0.020	0.017	4.59
14:32	21.7	0.020	0.018	4.51
14:33	22.1	0.020	0.019	4.47
14:34	22.0	0.020	0.018	4.37
14:35	21.9	0.020	0.017	4.45
14:36	21.8	0.020	0.018	4.43
14:37	22.0	0.020	0.016	4.40
14:38	22.0	0.020	0.019	4.48
14:39	22.0	0.020	0.018	4.71

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 6

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/9/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
14:40	22.1	0.020	0.015	4.76
14:41	22.0	0.020	0.018	4.77
14:42	21.9	0.020	0.019	4.68
14:43	21.9	0.020	0.018	4.53
14:44	21.9	0.020	0.018	4.50
14:45	21.9	0.020	0.018	4.47
14:46	21.8	0.020	0.015	4.57
14:47	21.8	0.020	0.018	4.51
14:48	21.8	0.020	0.019	4.51
14:49	22.0	0.020	0.018	4.49
14:50	22.0	0.020	0.018	4.45
14:51	21.8	0.020	0.019	4.29
14:52	21.8	0.020	0.018	4.24
14:53	21.8	0.020	0.017	4.28
14:54	21.7	0.020	0.017	4.34
14:55	21.9	0.020	0.019	4.36
14:56	22.1	0.020	0.017	4.33
14:57	22.0	0.020	0.018	4.32
14:58	21.8	0.020	0.019	4.31
14:59	21.9	0.020	0.017	4.27
15:00	21.6	0.020	0.018	4.44
15:01	21.6	0.020	0.016	4.44
15:02	21.9	0.020	0.017	4.41
15:03	21.9	0.020	0.018	4.46
15:04	21.9	0.020	0.016	4.31
15:05	21.8	0.020	0.016	4.32
15:06	22.1	0.020	0.018	4.37
15:07	22.0	0.020	0.018	4.36
15:08	22.0	0.020	0.017	4.29
15:09	22.0	0.020	0.018	4.41
15:10	21.8	0.020	0.017	4.42
15:11	21.9	0.020	0.017	4.50
15:12	21.8	0.020	0.018	4.53
15:13	21.9	0.020	0.015	4.59
15:14	22.0	0.020	0.016	4.60
15:15	22.0	0.020	0.017	4.53
15:16	21.9	0.020	0.019	4.39
15:17	21.9	0.020	0.019	4.41
15:18	22.0	0.020	0.018	4.40
15:19	22.0	0.020	0.018	4.37
15:20	22.0	0.020	0.016	4.31
15:21	21.9	0.020	0.018	4.28
15:22	22.0	0.020	0.018	4.34
15:23	21.8	0.020	0.019	4.44
15:24	21.8	0.020	0.017	4.48
15:25	22.1	0.020	0.017	4.37
15:26	21.6	0.020	0.017	4.29
15:27	21.7	0.020	0.018	4.34
15:28	21.8	0.020	0.017	4.51
15:29	22.1	0.020	0.016	4.56
15:30	21.9	0.020	0.018	4.46
15:31	22.0	0.020	0.018	4.44

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 6

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/9/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
15:32	22.0	0.020	0.019	4.39
15:33	22.0	0.020	0.016	4.51
15:34	21.9	0.020	0.017	4.55
15:35	21.9	0.020	0.019	4.50
15:36	21.9	0.020	0.018	4.45
15:37	21.8	0.020	0.018	4.36
15:38	21.9	0.020	0.019	4.28
15:39	22.1	0.020	0.017	4.26
15:40	21.6	0.020	0.017	4.29
15:41	22.0	0.020	0.018	4.40
15:42	21.9	0.020	0.016	4.43
15:43	22.0	0.020	0.018	4.45
15:44	22.1	0.020	0.016	4.50
15:45	21.9	0.020	0.018	4.52
15:46	21.9	0.020	0.018	4.53
15:47	21.9	0.020	0.016	4.42
15:48	22.0	0.020	0.017	4.46
15:49	21.8	0.020	0.016	4.38
15:50	22.0	0.020	0.016	4.28
15:51	21.7	0.020	0.017	4.25
15:52	21.7	0.020	0.017	4.25
15:53	22.0	0.020	0.019	4.30
15:54	21.8	0.020	0.018	4.46
15:55	22.1	0.020	0.017	4.66
15:56	22.0	0.020	0.016	4.63
15:57	22.0	0.020	0.018	4.57
15:58	21.8	0.020	0.017	4.52
15:59	21.9	0.020	0.017	4.48
16:00	21.8	0.020	0.017	4.35
16:01	21.9	0.020	0.018	4.39
16:02	22.1	0.020	0.016	4.47
16:03	22.0	0.020	0.019	4.55
16:04	21.9	0.020	0.017	4.55
16:05	21.9	0.020	0.018	4.51
16:06	21.9	0.020	0.018	4.50
16:07	22.0	0.020	0.017	4.53
16:08	22.0	0.020	0.019	4.48
16:09	22.0	0.020	0.018	4.45
16:10	22.0	0.020	0.018	4.43
16:11	21.9	0.020	0.019	4.41
16:12	22.1	0.020	0.017	4.52
16:13	22.2	0.020	0.018	4.35
16:14	21.9	0.020	0.017	4.31
16:15	22.0	0.020	0.019	4.41
16:16	22.0	0.020	0.017	4.49
16:17	21.8	0.020	0.019	4.48
16:18	21.7	0.020	0.017	4.52
16:19	22.0	0.020	0.019	4.48
16:20	21.8	0.020	0.017	4.43
16:21	21.8	0.020	0.018	4.36
16:22	21.9	0.020	0.017	4.27
16:23	21.9	0.020	0.018	4.38

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 6

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/9/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
16:24	21.9	0.020	0.019	4.41
16:25	22.2	0.020	0.018	4.39
16:26	21.9	0.020	0.018	4.29
16:27	21.8	0.020	0.019	4.25
16:28	22.0	0.020	0.019	4.35
16:29	21.6	0.020	0.018	4.52
16:30	22.0	0.020	0.017	4.44
16:31	21.9	0.020	0.018	4.40
16:32	21.8	0.020	0.019	4.56
16:33	21.8	0.020	0.019	4.51
16:34	21.8	0.020	0.017	4.45
16:35	21.8	0.020	0.019	4.35
16:36	21.9	0.020	0.015	4.37
16:37	22.0	0.020	0.018	4.41
16:38	22.0	0.020	0.019	4.41
16:39	21.8	0.020	0.019	4.39
16:40	22.0	0.020	0.018	4.43
16:41	22.0	0.020	0.017	4.47
16:42	21.9	0.020	0.017	4.48
16:43	21.8	0.020	0.017	4.40
16:44	21.7	0.020	0.018	4.27
16:45	21.8	0.020	0.017	4.42
16:46	21.9	0.020	0.018	4.54
16:47	21.9	0.020	0.018	4.47
16:48	21.9	0.020	0.018	4.40
16:49	21.9	0.020	0.019	4.42
16:50	21.8	0.020	0.017	4.50
16:51	21.8	0.020	0.016	4.67
16:52	21.7	0.020	0.016	4.53
16:53	21.6	0.020	0.017	4.50
16:54	22.1	0.020	0.017	4.44
16:55	22.0	0.020	0.017	4.49
16:56	21.8	0.020	0.017	4.43
16:57	22.0	0.020	0.016	4.43
16:58	22.0	0.020	0.018	4.39
16:59	22.0	0.020	0.018	4.47
17:00	22.0	0.020	0.015	4.39
17:01	22.0	0.020	0.018	4.49
17:02	22.0	0.020	0.018	4.47
17:03	21.9	0.020	0.017	4.52
17:04	22.0	0.020	0.019	4.57
17:05	22.0	0.020	0.015	4.43
17:06	21.8	0.020	0.017	4.38
17:07	21.8	0.020	0.016	4.42
17:08	22.0	0.020	0.019	4.38
17:09	21.9	0.020	0.020	4.35
17:10	22.1	0.020	0.019	4.33
17:11	21.9	0.020	0.018	4.51
17:12	21.7	0.020	0.017	4.58
17:13	22.0	0.020	0.017	4.75
17:14	21.8	0.020	0.019	4.58
17:15	22.1	0.020	0.018	4.42

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 6

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/9/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
17:16	21.8	0.020	0.019	4.36
17:17	22.0	0.020	0.017	4.34
17:18	21.8	0.020	0.017	4.37
17:19	22.1	0.020	0.019	4.35
17:20	21.9	0.020	0.019	4.34
17:21	22.1	0.020	0.018	4.34
17:22	22.1	0.020	0.018	4.25
17:23	22.1	0.020	0.016	4.25
17:24	21.9	0.020	0.017	4.25
17:25	21.7	0.020	0.018	4.30
17:26	22.1	0.020	0.020	4.46
17:27	21.8	0.020	0.019	4.41
17:28	21.9	0.020	0.019	4.35
17:29	22.0	0.020	0.018	4.35
17:30	21.8	0.020	0.018	4.50
17:31	21.9	0.020	0.016	4.50
17:32	22.0	0.020	0.017	4.44
17:33	22.0	0.020	0.016	4.40
17:34	22.0	0.020	0.019	4.52
17:35	22.0	0.020	0.018	4.58
17:36	21.8	0.020	0.019	4.73
17:37	21.9	0.020	0.017	4.59
17:38	22.0	0.020	0.019	4.48
17:39	21.9	0.020	0.019	4.56
17:40	22.0	0.020	0.019	4.64
17:41	22.0	0.020	0.017	4.65
17:42	21.7	0.020	0.018	4.47
17:43	21.8	0.020	0.018	4.40
17:44	21.9	0.020	0.018	4.39
17:45	21.7	0.020	0.018	4.45
17:46	22.0	0.020	0.017	4.49
17:47	22.1	0.020	0.017	4.43
17:48	22.1	0.020	0.018	4.35
17:49	21.7	0.020	0.017	4.27
17:50	21.8	0.020	0.018	4.39
17:51	21.7	0.020	0.019	4.49
17:52	21.7	0.020	0.017	4.47
17:53	21.9	0.020	0.017	4.52
17:54	21.9	0.020	0.018	4.51
17:55	21.9	0.020	0.018	4.57
17:56	21.9	0.020	0.019	4.55
17:57	21.9	0.020	0.018	4.50
17:58	21.8	0.020	0.015	4.46
17:59	21.8	0.020	0.019	4.50
18:00	21.8	0.020	0.020	4.47
18:01	21.7	0.020	0.017	4.43
18:02	21.9	0.020	0.018	4.48
18:03	21.7	0.020	0.017	4.40
18:04	22.0	0.020	0.018	4.49
18:05	21.9	0.020	0.019	4.41
18:06	21.9	0.020	0.020	4.49
18:07	22.0	0.020	0.020	4.55

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 6

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/9/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
18:08	21.7	0.020	0.017	4.57
18:09	21.9	0.020	0.018	4.48
18:10	22.2	0.020	0.018	4.43
18:11	21.9	0.020	0.018	4.38
18:12	22.0	0.020	0.019	4.49
18:13	21.9	0.020	0.018	4.50
18:14	21.9	0.020	0.019	4.48
18:15	21.9	0.020	0.017	4.42
18:16	21.8	0.020	0.018	4.41
18:17	21.7	0.020	0.017	4.43
18:18	22.1	0.020	0.017	4.52
18:19	22.0	0.020	0.017	4.50
18:20	22.1	0.020	0.018	4.39
18:21	21.9	0.020	0.018	4.37
18:22	21.9	0.020	0.018	4.34
18:23	21.9	0.020	0.018	4.25
18:24	21.8	0.020	0.019	4.47
18:25	21.8	0.020	0.017	4.48
18:26	22.2	0.020	0.018	4.56
18:27	22.0	0.020	0.017	4.47
18:28	22.0	0.020	0.018	4.41
18:29	22.0	0.020	0.018	4.41
18:30	21.7	0.020	0.018	4.47
18:31	22.0	0.020	0.020	4.34
18:32	22.0	0.020	0.018	4.38
18:33	21.7	0.020	0.018	4.40
Average	21.9	0.020	0.017	4.43
Minimum	21.6	0.020	0.011	4.05
Maximum	22.3	0.020	0.020	4.77

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 7

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	7
Date:	05/10/2024
Start Time:	08:15
Suspend:	- - -
Restart:	- - -
Suspend:	- - -
Restart:	- - -
End Time:	12:43

Parameter	Units	Mixed alcohols
Heating value	Btu/lb	5,940
Specific gravity	- - -	1.060

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/10/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
08:15	1,851	136	162	15.0	94.1
08:16	1,850	135	162	15.0	94.5
08:17	1,842	136	162	15.0	97.8
08:18	1,834	137	164	15.0	99.6
08:19	1,831	136	165	15.0	101
08:20	1,831	135	166	15.0	103
08:21	1,836	135	166	15.0	103
08:22	1,836	135	166	15.0	102
08:23	1,839	135	164	15.0	102
08:24	1,842	134	165	15.0	102
08:25	1,843	134	164	15.0	102
08:26	1,838	133	164	15.0	103
08:27	1,828	135	164	15.0	104
08:28	1,825	135	163	15.0	106
08:29	1,829	136	164	15.0	109
08:30	1,826	135	166	15.0	110
08:31	1,829	135	167	15.0	110
08:32	1,838	133	166	15.0	107
08:33	1,838	134	166	15.0	105
08:34	1,834	133	165	15.0	102
08:35	1,834	133	163	15.0	99.9
08:36	1,838	131	162	15.0	98.4
08:37	1,834	132	161	15.0	93.4
08:38	1,822	132	161	15.0	92.0
08:39	1,817	131	161	15.0	87.4
08:40	1,815	132	161	15.0	85.5
08:41	1,812	132	160	15.0	81.4
08:42	1,816	132	161	15.0	80.4
08:43	1,818	134	161	14.9	78.2
08:44	1,823	135	161	15.0	76.8
08:45	1,840	135	160	15.0	77.4
08:46	1,844	138	162	15.0	78.5
08:47	1,845	136	164	15.0	79.2
08:48	1,850	137	165	15.1	82.2
08:49	1,843	137	166	15.1	84.5
08:50	1,838	138	166	15.1	87.1
08:51	1,850	136	167	15.0	88.8
08:52	1,867	136	168	15.1	90.3
08:53	1,866	134	167	15.0	90.3
08:54	1,851	133	164	15.0	90.6

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 7

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/10/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
08:55	1,846	133	162	15.0	90.2
08:56	1,847	131	159	15.0	89.9
08:57	1,842	130	158	15.0	90.4
08:58	1,843	128	155	15.0	89.7
08:59	1,856	128	154	15.0	90.6
09:00	1,855	127	153	15.0	94.2
09:01	1,846	128	154	15.0	96.4
09:02	1,836	127	154	15.0	98.2
09:03	1,825	128	154	15.0	99.6
09:04	1,825	128	152	15.0	103
09:05	1,821	130	154	15.0	105
09:06	1,816	130	154	15.0	106
09:07	1,819	131	155	15.0	109
09:08	1,824	132	157	15.0	110
09:09	1,830	132	157	15.0	111
09:10	1,829	132	157	15.0	113
09:11	1,826	133	159	15.0	114
09:12	1,829	133	158	15.0	117
09:13	1,828	133	160	15.0	118
09:14	1,824	132	159	15.0	119
09:15	1,823	132	160	15.0	119
09:16	1,827	132	160	15.0	119
09:17	1,831	131	159	15.0	118
09:18	1,834	132	158	15.0	118
09:19	1,834	131	157	15.0	117
09:20	1,831	131	157	15.0	115
09:21	1,834	130	157	15.0	116
09:22	1,827	131	157	15.0	117
09:23	1,823	130	159	15.0	117
09:24	1,823	131	159	15.0	117
09:25	1,821	130	160	15.0	116
09:26	1,819	130	159	15.0	116
09:27	1,821	130	159	15.0	117
09:28	1,820	133	159	15.0	119
09:29	1,819	133	161	15.0	120
09:30	1,823	133	161	15.0	121
09:31	1,824	133	162	15.0	122
09:32	1,824	134	162	15.0	123
09:33	1,826	134	163	15.0	123
09:34	1,826	135	164	15.0	123
09:35	1,826	135	163	15.0	124
09:36	1,832	135	164	15.0	123
09:37	1,834	134	163	15.0	124
09:38	1,829	134	164	15.0	124
09:39	1,822	134	164	15.0	124
09:40	1,821	134	164	15.0	123
09:41	1,828	134	164	15.0	124
09:42	1,833	134	164	15.0	123
09:43	1,833	134	163	15.0	123
09:44	1,828	135	164	15.0	121
09:45	1,824	134	164	15.0	120
09:46	1,828	135	164	15.0	118

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 7

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/10/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
09:47	1,835	133	164	15.0	115
09:48	1,833	133	165	15.0	113
09:49	1,825	132	165	15.0	111
09:50	1,822	132	164	15.0	109
09:51	1,820	131	164	15.0	108
09:52	1,818	133	164	15.0	106
09:53	1,815	132	164	15.0	105
09:54	1,818	133	163	15.0	104
09:55	1,820	133	164	15.0	103
09:56	1,824	134	164	15.0	101
09:57	1,830	134	164	15.0	99.3
09:58	1,834	135	164	15.0	98.0
09:59	1,836	133	164	15.0	96.9
10:00	1,833	133	163	15.0	97.0
10:01	1,832	133	163	15.0	96.4
10:02	1,832	133	162	15.0	97.2
10:03	1,832	132	162	15.0	98.3
10:04	1,833	131	161	15.0	100
10:05	1,829	130	160	15.0	101
10:06	1,829	130	160	15.0	101
10:07	1,831	128	159	15.0	101
10:08	1,829	128	158	15.0	101
10:09	1,831	126	156	15.0	101
10:10	1,835	128	155	15.0	102
10:11	1,829	128	155	15.0	104
10:12	1,819	129	154	15.0	104
10:13	1,816	127	153	15.0	106
10:14	1,819	128	153	15.0	106
10:15	1,820	126	154	15.0	105
10:16	1,818	127	154	15.0	105
10:17	1,811	127	153	15.0	106
10:18	1,809	127	152	15.0	106
10:19	1,813	127	152	15.0	108
10:20	1,816	127	153	15.0	108
10:21	1,816	127	152	15.0	108
10:22	1,815	127	152	15.0	109
10:23	1,815	127	152	15.0	108
10:24	1,815	126	153	15.0	107
10:25	1,813	125	152	15.0	104
10:26	1,814	126	152	15.0	103
10:27	1,813	126	151	15.0	102
10:28	1,809	126	153	15.0	102
10:29	1,804	126	153	15.0	99.7
10:30	1,804	127	155	15.0	97.1
10:31	1,804	128	155	15.0	96.2
10:32	1,801	128	157	15.0	92.3
10:33	1,799	130	157	15.0	89.9
10:34	1,799	131	159	15.0	87.1
10:35	1,805	132	159	15.0	83.5
10:36	1,816	132	160	15.0	81.2
10:37	1,818	133	160	15.0	80.1
10:38	1,825	133	160	15.0	79.2

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 7

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/10/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
10:39	1,826	134	159	15.0	79.9
10:40	1,833	134	159	15.0	81.5
10:41	1,837	134	160	15.0	83.6
10:42	1,838	132	160	15.0	85.5
10:43	1,829	133	160	15.0	86.6
10:44	1,828	133	161	15.0	88.6
10:45	1,833	133	163	15.0	89.0
10:46	1,840	134	161	15.0	92.0
10:47	1,843	133	162	15.0	92.7
10:48	1,845	133	159	15.0	94.1
10:49	1,836	133	159	15.0	95.5
10:50	1,831	133	160	15.0	97.1
10:51	1,830	136	160	15.0	100
10:52	1,824	136	161	15.0	103
10:53	1,821	137	163	15.0	105
10:54	1,827	137	164	15.0	107
10:55	1,833	137	165	15.0	107
10:56	1,832	136	164	15.0	108
10:57	1,846	137	165	15.0	108
10:58	1,853	137	165	15.0	107
10:59	1,853	137	165	15.0	106
11:00	1,858	137	164	15.0	105
11:01	1,851	137	164	15.0	104
11:02	1,843	138	165	15.0	100
11:03	1,844	138	166	15.0	97.9
11:04	1,849	138	166	15.0	94.4
11:05	1,852	138	166	15.0	93.9
11:06	1,845	137	167	15.0	90.1
11:07	1,841	136	166	15.0	90.0
11:08	1,847	137	164	15.0	86.9
11:09	1,850	137	163	15.0	87.9
11:10	1,864	136	165	15.0	88.0
11:11	1,859	136	163	15.0	90.5
11:12	1,847	136	164	15.0	91.9
11:13	1,842	137	164	15.0	94.1
11:14	1,834	138	167	15.0	98.0
11:15	1,830	140	168	15.0	101
11:16	1,834	139	168	15.0	104
11:17	1,839	142	168	15.0	107
11:18	1,843	142	169	15.0	110
11:19	1,846	143	169	15.0	111
11:20	1,849	141	169	15.0	113
11:21	1,854	142	169	15.0	114
11:22	1,860	142	170	15.0	114
11:23	1,862	142	170	15.0	115
11:24	1,861	142	171	15.0	115
11:25	1,859	142	171	15.0	116
11:26	1,857	142	171	15.0	117
11:27	1,858	142	171	15.0	116
11:28	1,859	143	171	15.0	116
11:29	1,864	143	172	15.0	115
11:30	1,869	144	173	15.0	113

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 7

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/10/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
11:31	1,874	144	173	15.0	111
11:32	1,880	145	174	15.0	108
11:33	1,875	144	174	15.0	105
11:34	1,865	145	174	15.0	103
11:35	1,860	144	174	15.0	102
11:36	1,863	145	174	15.0	100
11:37	1,864	144	174	15.0	98.1
11:38	1,861	144	174	15.0	96.8
11:39	1,860	143	174	15.0	96.7
11:40	1,863	145	173	15.0	96.4
11:41	1,868	144	173	15.0	95.8
11:42	1,875	145	173	15.0	96.0
11:43	1,884	144	173	15.0	96.6
11:44	1,885	144	173	15.0	98.3
11:45	1,879	143	172	15.0	99.4
11:46	1,872	143	172	15.0	101
11:47	1,867	141	172	15.0	103
11:48	1,867	141	172	15.0	106
11:49	1,867	140	172	15.0	107
11:50	1,866	141	172	15.0	107
11:51	1,863	141	172	15.0	109
11:52	1,863	142	172	15.0	110
11:53	1,869	142	172	15.0	111
11:54	1,873	143	172	15.0	113
11:55	1,867	142	172	15.0	114
11:56	1,858	143	172	15.0	115
11:57	1,858	143	172	15.0	115
11:58	1,861	144	172	15.0	115
11:59	1,866	143	172	15.0	114
12:00	1,869	143	173	15.0	113
12:01	1,871	143	173	15.0	113
12:02	1,867	144	173	15.0	112
12:03	1,864	144	173	15.0	110
12:04	1,868	144	173	15.0	110
12:05	1,869	144	173	15.0	107
12:06	1,866	143	173	15.0	105
12:07	1,860	143	173	15.0	103
12:08	1,856	143	173	15.0	101
12:09	1,856	144	173	15.0	98.9
12:10	1,858	143	173	15.0	98.3
12:11	1,862	143	173	15.0	96.4
12:12	1,869	141	172	15.0	96.3
12:13	1,876	141	172	15.0	94.8
12:14	1,872	140	171	15.0	93.8
12:15	1,866	139	170	15.0	91.8
12:16	1,859	138	169	15.0	92.1
12:17	1,856	137	167	15.0	92.8
12:18	1,851	137	166	15.0	94.9
12:19	1,845	137	166	15.0	95.5
12:20	1,849	137	166	15.0	97.0
12:21	1,853	137	165	15.0	97.5
12:22	1,856	136	164	15.0	99.0

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 7

Date/Time	TI-3732	FI-3704	FI-130010	FIT-3334	FI-3706
5/10/2024	Combustion Chamber Temperature	Steam Production Rate	Stack Gas Flow Rate	Liquid Waste Feed Rate	Natural Gas Feed Rate
Units	°F	klb/hr	klb/hr	gpm	kscfh
12:23	1,858	136	163	15.0	101
12:24	1,859	137	164	15.0	102
12:25	1,855	136	165	15.0	103
12:26	1,851	137	164	15.0	102
12:27	1,855	136	164	15.0	104
12:28	1,852	136	164	15.0	103
12:29	1,851	136	165	15.0	103
12:30	1,845	137	165	15.0	101
12:31	1,843	137	164	15.0	102
12:32	1,844	137	165	15.0	98.7
12:33	1,852	137	165	15.0	98.2
12:34	1,848	138	165	15.0	95.6
12:35	1,843	139	165	15.0	95.0
12:36	1,844	138	166	15.0	93.8
12:37	1,849	138	166	15.0	90.7
12:38	1,854	137	166	15.0	89.1
12:39	1,859	137	166	15.0	87.2
12:40	1,857	137	167	15.0	87.0
12:41	1,856	137	166	15.0	84.3
12:42	1,855	136	165	15.0	84.1
12:43	1,865	137	164	15.0	83.0
Average	1,840	135	164	15.0	102.3
Minimum	1,799	125	151	14.9	76.8
Maximum	1,885	145	174	15.1	124

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 7

Unit	Utility Boiler No. 3
Condition:	ICR Test
Run:	7
Date:	05/10/2024
Start Time:	08:15
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	12:43

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/10/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
08:15	113.0	0.270	0.018	4.28
08:16	110.7	0.450	0.016	4.31
08:17	109.9	0.070	0.017	4.41
08:18	107.2	0.020	0.019	4.36
08:19	104.5	0.020	0.017	4.42
08:20	102.3	0.020	0.019	4.44
08:21	99.9	0.020	0.017	4.49
08:22	99.2	0.020	0.018	4.43
08:23	98.1	0.020	0.018	4.42
08:24	95.5	0.020	0.019	4.48
08:25	92.2	0.020	0.019	4.52
08:26	89.7	0.020	0.017	4.66
08:27	88.8	0.020	0.015	4.48
08:28	86.2	0.020	0.017	4.42
08:29	84.6	0.020	0.014	4.55
08:30	83.0	0.020	0.018	4.58
08:31	84.1	0.020	0.017	4.49
08:32	85.6	0.020	0.017	4.50
08:33	87.3	0.020	0.018	4.47
08:34	88.7	0.020	0.017	4.46
08:35	91.5	0.020	0.018	4.35
08:36	95.5	0.020	0.018	4.35
08:37	102	0.020	0.018	4.39
08:38	108	0.020	0.017	4.50
08:39	115	0.020	0.017	4.52
08:40	124	0.020	0.018	4.59
08:41	133	0.020	0.018	4.57
08:42	139	0.020	0.017	4.75
08:43	142	0.020	0.017	4.61
08:44	146	0.020	0.017	4.62
08:45	148	0.020	0.018	4.56
08:46	151	0.020	0.016	4.62
08:47	150	0.020	0.019	4.67
08:48	146	0.020	0.019	4.78
08:49	144	0.020	0.017	4.86
08:50	140	0.020	0.017	4.70
08:51	134	0.020	0.017	4.74
08:52	128	0.020	0.019	4.72
08:53	122	0.020	0.018	4.62
08:54	115	0.020	0.017	4.54

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 7

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/10/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
08:55	110	0.020	0.018	4.29
08:56	104	0.020	0.019	4.16
08:57	96.6	0.020	0.016	4.18
08:58	93.6	0.020	0.018	4.17
08:59	89.7	0.020	0.017	4.30
09:00	83.0	0.020	0.014	4.34
09:01	77.3	0.020	0.015	4.23
09:02	72.1	0.020	0.016	4.29
09:03	66.1	0.020	0.011	4.29
09:04	61.6	0.020	0.016	4.36
09:05	59.1	0.020	0.013	4.27
09:06	55.2	0.020	0.017	4.11
09:07	51.3	0.020	0.018	4.07
09:08	48.1	0.020	0.013	4.14
09:09	45.9	0.020	0.009	4.13
09:10	42.4	0.020	0.010	4.16
09:11	37.0	0.020	0.016	4.19
09:12	33.2	0.020	0.020	4.16
09:13	30.1	0.020	0.015	4.24
09:14	27.0	0.020	0.018	4.12
09:15	26.0	0.020	0.017	4.27
09:16	23.0	0.020	0.018	4.14
09:17	22.1	0.020	0.020	4.10
09:18	21.8	0.020	0.020	4.04
09:19	21.3	0.020	0.017	4.02
09:20	21.3	0.020	0.018	4.14
09:21	21.6	0.020	0.019	4.28
09:22	21.0	0.020	0.014	4.35
09:23	21.5	0.020	0.018	4.40
09:24	20.9	0.020	0.018	4.50
09:25	20.9	0.020	0.018	4.53
09:26	21.5	0.020	0.015	4.58
09:27	20.8	0.020	0.019	4.53
09:28	21.4	0.020	0.017	4.52
09:29	21.5	0.020	0.019	4.52
09:30	21.1	0.020	0.015	4.49
09:31	21.2	0.020	0.017	4.46
09:32	20.9	0.020	0.019	4.53
09:33	20.9	0.020	0.017	4.50
09:34	21.5	0.020	0.017	4.50
09:35	21.0	0.020	0.016	4.49
09:36	21.7	0.020	0.016	4.53
09:37	21.5	0.020	0.018	4.58
09:38	21.4	0.020	0.018	4.62
09:39	20.9	0.020	0.019	4.58
09:40	21.4	0.020	0.017	4.52
09:41	20.9	0.020	0.017	4.51
09:42	22.2	0.020	0.016	4.50
09:43	24.7	0.020	0.018	4.48
09:44	26.6	0.020	0.017	4.48
09:45	31.4	0.020	0.018	4.47
09:46	39.5	0.020	0.018	4.53

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 7

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/10/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
09:47	46.7	0.020	0.018	4.72
09:48	53.4	0.020	0.018	4.87
09:49	59.6	0.020	0.016	4.93
09:50	65.5	0.020	0.017	4.91
09:51	71.6	0.020	0.017	4.95
09:52	75.0	0.020	0.017	5.00
09:53	79.2	0.020	0.017	4.92
09:54	82.9	0.020	0.017	4.87
09:55	88.6	0.020	0.018	4.83
09:56	94.0	0.020	0.016	4.80
09:57	99.3	0.020	0.017	4.74
09:58	101	0.020	0.018	4.74
09:59	102	0.020	0.018	4.82
10:00	102	0.020	0.018	4.75
10:01	102	0.020	0.016	4.72
10:02	99.3	0.020	0.017	4.61
10:03	93.1	0.020	0.017	4.66
10:04	88.2	0.020	0.017	4.64
10:05	86.7	0.020	0.018	4.74
10:06	83.3	0.020	0.016	4.52
10:07	78.7	0.020	0.017	4.48
10:08	73.8	0.020	0.017	4.54
10:09	68.3	0.020	0.017	4.44
10:10	63.4	0.020	0.016	4.50
10:11	58.6	0.020	0.018	4.35
10:12	55.0	0.020	0.018	4.18
10:13	51.0	0.020	0.016	4.09
10:14	47.6	0.020	0.016	4.20
10:15	47.2	0.020	0.017	4.33
10:16	45.4	0.020	0.017	4.44
10:17	41.6	0.020	0.018	4.36
10:18	38.1	0.020	0.018	4.14
10:19	34.7	0.020	0.019	4.26
10:20	33.5	0.020	0.015	4.20
10:21	32.6	0.020	0.016	4.08
10:22	32.4	0.020	0.017	4.07
10:23	32.7	0.020	0.016	4.22
10:24	33.9	0.020	0.017	4.23
10:25	38.7	0.020	0.015	4.26
10:26	44.7	0.020	0.016	4.38
10:27	50.0	0.020	0.017	4.45
10:28	56.6	0.020	0.018	4.56
10:29	66.7	0.020	0.016	4.69
10:30	74.0	0.020	0.017	4.83
10:31	83.5	0.020	0.016	4.87
10:32	92.5	0.020	0.018	4.91
10:33	105	0.020	0.017	4.93
10:34	117	0.020	0.017	4.89
10:35	126	0.020	0.016	4.86
10:36	131	0.020	0.019	4.90
10:37	137	0.020	0.017	4.87
10:38	138	0.020	0.017	4.79

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 7

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/10/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
10:39	138	0.020	0.017	4.72
10:40	138	0.020	0.017	4.68
10:41	132	0.020	0.018	4.69
10:42	129	0.020	0.017	4.67
10:43	126	0.020	0.018	4.69
10:44	124	0.020	0.016	4.84
10:45	121	0.020	0.018	4.76
10:46	115	0.020	0.018	4.66
10:47	111	0.020	0.016	4.55
10:48	107	0.020	0.018	4.42
10:49	103	0.020	0.016	4.39
10:50	99.4	0.020	0.018	4.39
10:51	96.7	0.020	0.018	4.42
10:52	94.2	0.020	0.017	4.61
10:53	93.4	0.020	0.017	4.55
10:54	92.7	0.020	0.016	4.46
10:55	91.0	0.020	0.018	4.43
10:56	89.7	0.020	0.018	4.35
10:57	89.3	0.020	0.017	4.45
10:58	89.6	0.020	0.015	4.36
10:59	92.8	0.020	0.015	4.34
11:00	95.6	0.020	0.018	4.42
11:01	101	0.020	0.015	4.44
11:02	109	0.020	0.017	4.53
11:03	115	0.020	0.019	4.55
11:04	122	0.020	0.018	4.57
11:05	126	0.020	0.017	4.74
11:06	130	0.020	0.015	4.65
11:07	132	0.020	0.016	4.59
11:08	134	0.020	0.016	4.53
11:09	133	0.020	0.018	4.59
11:10	128	0.020	0.017	4.67
11:11	125	0.020	0.017	4.77
11:12	125	0.020	0.018	4.72
11:13	122	0.020	0.016	4.66
11:14	116	0.020	0.017	4.93
11:15	111	0.020	0.018	4.85
11:16	108	0.020	0.016	4.69
11:17	105	0.020	0.018	4.60
11:18	101	0.020	0.016	4.35
11:19	97.1	0.020	0.015	4.32
11:20	94.4	0.020	0.016	4.31
11:21	93.2	0.020	0.017	4.37
11:22	92.8	0.020	0.017	4.40
11:23	91.5	0.020	0.018	4.40
11:24	89.6	0.020	0.015	4.41
11:25	87.0	0.020	0.016	4.44
11:26	86.2	0.020	0.017	4.47
11:27	88.7	0.020	0.015	4.47
11:28	91.3	0.020	0.016	4.39
11:29	95.1	0.020	0.017	4.47
11:30	102	0.020	0.017	4.48

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 7

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/10/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
11:31	109	0.020	0.016	4.47
11:32	115	0.020	0.017	4.50
11:33	120	0.020	0.017	4.58
11:34	125	0.020	0.018	4.55
11:35	129	0.020	0.017	4.62
11:36	133	0.020	0.018	4.65
11:37	136	0.020	0.018	4.56
11:38	138	0.020	0.019	4.68
11:39	139	0.020	0.019	4.66
11:40	141	0.020	0.020	4.63
11:41	142	0.020	0.018	4.63
11:42	141	0.020	0.018	4.64
11:43	136	0.020	0.019	4.62
11:44	131	0.020	0.019	4.65
11:45	128	0.020	0.017	4.67
11:46	123	0.020	0.016	4.61
11:47	117	0.020	0.015	4.62
11:48	112	0.020	0.018	4.61
11:49	111	0.020	0.018	4.65
11:50	110	0.020	0.017	4.59
11:51	106	0.020	0.018	4.50
11:52	102	0.020	0.018	4.52
11:53	97.6	0.020	0.017	4.49
11:54	94.2	0.020	0.019	4.55
11:55	93.4	0.020	0.017	4.55
11:56	92.2	0.020	0.019	4.44
11:57	92.4	0.020	0.018	4.40
11:58	94.6	0.020	0.018	4.43
11:59	97.8	0.020	0.017	4.46
12:00	99.1	0.020	0.017	4.51
12:01	101	0.020	0.018	4.55
12:02	103	0.020	0.017	4.54
12:03	107	0.020	0.017	4.52
12:04	110	0.020	0.018	4.55
12:05	115	0.020	0.018	4.57
12:06	119	0.020	0.016	4.56
12:07	122	0.020	0.015	4.64
12:08	128	0.020	0.017	4.67
12:09	131	0.020	0.019	4.61
12:10	133	0.020	0.016	4.58
12:11	134	0.020	0.019	4.69
12:12	135	0.020	0.018	4.69
12:13	135	0.020	0.018	4.69
12:14	135	0.020	0.017	4.69
12:15	132	0.020	0.015	4.70
12:16	129	0.020	0.019	4.70
12:17	123	0.020	0.018	4.60
12:18	121	0.020	0.019	4.60
12:19	116	0.020	0.017	4.61
12:20	111	0.020	0.015	4.44
12:21	107	0.020	0.017	4.45
12:22	103	0.020	0.018	4.45

BASF Corporation - Geismar, Louisiana

Utility Boiler No. 3

Run 7

Date/Time	FI-3712	AI-30072	AI-30072	AI-30071
5/10/2024	AOG Vent Gas Feed Rate	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	kscfh	ppmv dry	ppmv dry	% vol dry
12:23	101	0.020	0.018	4.49
12:24	99.8	0.020	0.017	4.46
12:25	97.2	0.020	0.019	4.39
12:26	96.6	0.020	0.019	4.42
12:27	96.0	0.020	0.016	4.52
12:28	96.6	0.020	0.019	4.55
12:29	98.5	0.020	0.017	4.45
12:30	99.4	0.020	0.017	4.48
12:31	102	0.020	0.016	4.43
12:32	106	0.020	0.018	4.49
12:33	110	0.020	0.017	4.58
12:34	115	0.020	0.018	4.49
12:35	120	0.020	0.016	4.52
12:36	125	0.020	0.016	4.56
12:37	130	0.020	0.017	4.58
12:38	135	0.020	0.018	4.67
12:39	138	0.020	0.017	4.78
12:40	139	0.020	0.014	4.78
12:41	141	0.020	0.018	4.72
12:42	142	0.020	0.018	4.57
12:43	142	0.020	0.017	4.55
Average	91.1	0.023	0.017	4.52
Minimum	20.8	0.020	0.009	4.02
Maximum	151	0.450	0.020	5.00

Appendix C: LIQUID WASTE SAMPLING REPORT

LIQUID WASTE SAMPLING REPORT

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

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

The field duplicate samples were collected as described in the quality assurance project plan (QAPP). The field duplicates were collected during Run 4.

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

BASF Corporation – Geismar, Louisiana
Waste Sampling Log

Unit: Utility Boiler No. 3

Test: HWC NESHA Information Collection Request Emission Test

Run	Date	Waste Stream	Grab Sample	Time of Sample	Initials
1	5-7-24	Amines	Beginning	0900	CB
			Middle	1115	CB
			End	1315	CB
2	5-7-24	Amines	Beginning	1445	CB
			Middle	1640	CB
			End	1830	CB
3	5-8-24	Diols mixed alcohols	Beginning	0830	LN
			Middle	1035	LN
			End	12:50	LN
4 pkts, Duplicates	5-8-24	Diols mixed alcohols	Beginning	1345	LN
			Middle	1550	LN
			End	1800	LN

BASF Corporation – Geismar, Louisiana
Waste Sampling Log

Unit: Utility Boiler No. 3

Test: HWC NESHAP Information Collection Request Emission Test

Run	Date	Waste Stream	Grab Sample	Time of Sample	Initials
5	5/9/24	Amines	Beginning	820	SN
			Middle	1030	SN
			End	1315	SN
6	5-9-24	Amines	Beginning	1405	CB
			Middle	1615	TW
			End	1830	TW
7	5-10-24	BD mixed alcohols	Beginning	820	CB
			Middle	1030	CB
			End	1240	CB
			Beginning		
			Middle		
			End		

Appendix D: STACK SAMPLING REPORT



Source Test Report

BASF Corporation
8404 River Road
Geismar, LA 70734

Source Tested: Utility Boiler No. 3
(EQT0161 / UTL15)

Test Dates: May 7-10, 2024
EPA FRS No.: 110070834884

Project No. AST-2024-2573

Prepared By
Alliance Technical Group, LLC
6110 Copperhead Road
Geismar, LA 70734

Regulatory Information

Regulatory Citation

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

Source Information

Source Name
Utility Boiler No. 3

Source ID
EQT0161 / UTL15

Target Parameters
PAH/PCB, THC, HCN

Contact Information

Test Location
BASF Corporation
8404 River Road
Geismar, LA 70734
A.I. No. 2049

Test Company
Alliance Technical Group, LLC
6110 Copperhead Road
Geismar, LA 70734
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Alliance Technical Group, LLC (Alliance) has completed the source testing as described in this report. Results apply only to the source tested and operating conditions for the specific test dates and times identified within this report. All results are intended to be considered in their entirety, and Alliance is not responsible for use of less than the complete test report without written consent. This report shall not be reproduced in full or in part without written approval from the customer.

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

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



Jason LaCroix, QSTI
Alliance Technical Group, LLC

9/22/2024

Date

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Introduction

1.0 Introduction

Alliance Technical Group, LLC (Alliance) was retained by BASF Corporation (BASF) to conduct Clean Air Act (CAA) Section 114 information collection request (ICR) testing at the Geismar, Louisiana facility at the request of the United States Environmental Protection Agency (USEPA). Testing was conducted to determine the emission concentrations of polycyclic aromatic hydrocarbons (PAH), polychlorinated biphenyls (PCB), total hydrocarbons (THC) and hydrogen cyanide (HCN) at the exhaust of the Utility Boiler No. 3 (EQT0161 / UTL15). This source is regulated under 40 CFR 63, Subpart EEE, which is subject to this ICR.

1.1 Project Team

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

Table 1-1: Project Team

BASF Personnel	Clint Palermo
Alliance Personnel	Jason LaCroix Curtis Berridge Jose Bran Andrew Foreman Collin Sharon

1.2 Test Program Notes

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

Summary of Results

2.0 Summary of Results

Alliance conducted CAA Section 114 ICR testing at the BASF facility in Geismar, Louisiana on May 7-10, 2024. Testing consisted of determining the emission rates of PAH, PCB, THC and HCN at the exhaust of the Utility Boiler No. 3 (EQT0161 / UTL15).

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

Result Tables Flag Definitions:

BDL - Below Detection Level

DLL - Detection Level Limited

ADL - Above Detection Level

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

Run Number	Run 1	Flag	Run 2	Flag	Run 3	Flag	Run 4	Flag
Date	05/07/24		05/07/24		05/08/24		05/08/24	
Hydrogen Cyanide Data								
ppmvd	2.42	ADL	2.60	ADL	2.60	ADL	2.50	ADL
ppmvd @ 7% O ₂	2.05		2.19		2.19		2.11	
Run Number	Run 5	Flag	Run 6	Flag	Run 7	Flag	Average	Flag
Date	05/09/24		05/09/24		05/10/24		--	
Hydrogen Cyanide Data								
ppmvd	2.48	ADL	2.64	ADL	2.62	ADL	2.54	ADL
ppmvd @ 7% O ₂	2.12		2.23		2.22		2.15	

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

Run Number	Run 1	Flag	Run 2	Flag	Run 3	Flag	Run 4	Flag
Date	05/07/24		05/07/24		05/08/24		05/08/24	
Total Hydrocarbons (as Propane) Data								
ppmvd	0.251	ADL	0.130	ADL	0.191	ADL	0.345	ADL
ppmvd @ 7% O ₂	0.213		0.109		0.161		0.291	
Run Number	Run 5	Flag	Run 6	Flag	Run 7	Flag	Average	Flag
Date	05/09/24		05/09/24		05/10/24		--	
Total Hydrocarbons (as Propane) Data								
ppmvd	0.517	ADL	0.890	ADL	0.144	ADL	0.352	ADL
ppmvd @ 7% O ₂	0.441		0.751		0.122		0.298	

Run Number	Run 1 05/07/24	Run 2 05/07/24	Run 3 05/08/24	Run 4 05/08/24	Run 5 05/09/24	Run 6 05/09/24	Run 7 05/10/24	Flag Average							
									Flag	Flag	Flag	Flag	Flag		
Naphthalene	91.9	ADL	195	ADL	73.4	ADL	122	ADL	50.7	ADL	104	ADL	36.7	ADL	96.4
2-Methylnaphthalene	79.5	ADL	234	ADL	65.9	ADL	149	ADL	37.9	ADL	96.8	ADL	26.0	ADL	98.5
Acenaphthylene	3.81	ADL	7.78	ADL	4.50	ADL	4.35	ADL	3.44	ADL	4.10	ADL	2.87	ADL	4.41
Acenaphthene	15.0	ADL	22.1	ADL	15.0	ADL	13.8	ADL	13.1	ADL	15.9	ADL	9.51	ADL	14.9
Fluorene	40.9	ADL	57.9	ADL	42.2	ADL	38.8	ADL	32.0	ADL	41.7	ADL	25.2	ADL	39.8
Phenanthrene	125	ADL	227	ADL	124	ADL	186	ADL	104	ADL	166	ADL	84.4	ADL	145
Anthracene	11.6	ADL	18.8	ADL	0.0666	BDL	14.9	ADL	12.1	ADL	18.3	ADL	10.9	ADL	12.4
Fluoranthene	21.3	ADL	22.0	ADL	17.5	ADL	20.2	ADL	21.3	ADL	22.4	ADL	20.0	ADL	20.7
Pyrene	19.3	ADL	26.0	ADL	15.7	ADL	24.5	ADL	17.6	ADL	26.9	ADL	17.1	ADL	21.0
Benz[a]anthracene	0.884	ADL	0.494	ADL	0.610	ADL	0.421	ADL	0.649	ADL	0.733	ADL	0.854	ADL	0.663
Chrysene	3.51	ADL	1.73	ADL	2.75	ADL	1.74	ADL	3.22	ADL	2.39	ADL	3.86	ADL	2.74
Benzo[b]fluoranthene	1.43	ADL	1.15	ADL	1.15	ADL	1.35	ADL	1.38	ADL	2.13	ADL	1.96	ADL	1.51
Benzo[k]fluoranthene	0.545	ADL	0.309	ADL	0.402	ADL	0.326	ADL	0.302	ADL	0.546	ADL	0.528	ADL	0.423
Benzo[e]pyrene	5.00	ADL	3.81	ADL	2.26	ADL	5.47	ADL	2.63	ADL	7.94	ADL	3.65	ADL	4.39
Benzo[a]pyrene	1.21	ADL	0.911	ADL	0.395	ADL	0.716	ADL	0.598	ADL	1.36	ADL	0.734	ADL	0.846
Perylene	0.531	ADL	0.300	ADL	0.0639	ADL	0.141	ADL	0.106	ADL	0.432	ADL	0.250	ADL	0.261
Indeno(1,2,3-cd)pyrene	2.69	ADL	2.09	ADL	1.40	ADL	2.24	ADL	1.39	ADL	3.42	ADL	1.51	ADL	2.11
Dibenz[a,h]anthracene	0.297	ADL	0.0398	ADL	0.0714	ADL	0.0180	ADL	0.0509	ADL	0.0728	BDL	0.0468	ADL	0.0852
Benzo[g,h,i]perylene	17.1	ADL	10.7	ADL	5.68	ADL	10.2	ADL	7.35	ADL	14.2	ADL	7.49	ADL	10.4
Total PAH	441	ADL	832	ADL	373	DLL	597	ADL	309	ADL	529	DLL	254	ADL	477

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

Run Number	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Flag Average
Date	05/07/24	05/07/24	05/08/24	05/08/24	05/09/24	05/09/24	05/10/24	
Naphthalene	77.7	165	ADL	ADL	ADL	ADL	ADL	ADL 81.4
2-Methylnaphthalene	67.3	ADL	ADL	ADL	ADL	ADL	ADL	ADL 83.1
Acenaphthylene	3.22	ADL	ADL	ADL	ADL	ADL	ADL	ADL 3.73
Acenaphthene	12.7	ADL	ADL	ADL	ADL	ADL	ADL	ADL 12.6
Fluorene	34.6	ADL	ADL	ADL	ADL	ADL	ADL	ADL 33.7
Phenanthrene	105	ADL	ADL	ADL	ADL	ADL	ADL	ADL 123
Anthracene	9.81	ADL	ADL	ADL	ADL	ADL	ADL	ADL 10.5
Fluoranthene	18.1	ADL	ADL	ADL	ADL	ADL	ADL	ADL 17.5
Pyrene	16.3	ADL	ADL	ADL	ADL	ADL	ADL	ADL 17.8
Benz[a]anthracene	0.748	ADL	ADL	ADL	ADL	ADL	ADL	ADL 0.562
Chrysene	2.97	ADL	ADL	ADL	ADL	ADL	ADL	ADL 2.32
Benzo[b]fluoranthene	1.21	ADL	ADL	ADL	ADL	ADL	ADL	ADL 1.28
Benzo[k]fluoranthene	0.461	ADL	ADL	ADL	ADL	ADL	ADL	ADL 0.357
Benzo[e]pyrene	4.23	ADL	ADL	ADL	ADL	ADL	ADL	ADL 3.71
Benzo[a]pyrene	1.02	ADL	ADL	ADL	ADL	ADL	ADL	ADL 0.715
Perylene	0.449	ADL	ADL	ADL	ADL	ADL	ADL	ADL 0.220
Indeno(1,2,3-cd)pyrene	2.27	ADL	ADL	ADL	ADL	ADL	ADL	ADL 1.78
Dibenz[a,h]anthracene	0.251	ADL	ADL	ADL	ADL	ADL	ADL	ADL 0.0721
Benzo[g,h,i]perylene	14.5	ADL	ADL	ADL	ADL	ADL	ADL	ADL 8.78
Total PAH	373	ADL	ADL	ADL	ADL	ADL	ADL	ADL 403

Run Number Date	Run 1 05/07/24		Run 2 05/07/24		Run 3 05/08/24		Run 4 05/08/24		Run 5 05/09/24		Run 6 05/09/24		Run 7 05/10/24		Flag	Average
	Flag		Flag		Flag		Flag		Flag		Flag		Flag			
2,2,4'-DiCB (PCB-8)	0.104	ADL	0.592	ADL	0.0845	ADL	0.399	ADL	0.0558	ADL	0.199	ADL	0.0526	ADL	ADL	0.212
2,2,2',5'-TeCB (PCB-18)	0.0666	BDL	0.237	ADL	0.0632	BDL	0.179	ADL	0.0701	BDL	0.0692	BDL	0.0553	BDL	BDL	0.106
2,4,4'-TtCB (PCB-28)	0.125	ADL	0.560	ADL	0.100	ADL	0.388	ADL	0.0703	ADL	0.209	ADL	0.0611	ADL	ADL	0.216
2,2,2',3,5'-TeCB (PCB-44)	0.935	ADL	1.54	ADL	0.888	ADL	1.03	ADL	0.615	ADL	0.915	ADL	0.499	ADL	ADL	0.918
2,2,2',5,5'-TeCB (PCB-52)	0.0851	ADL	0.538	ADL	0.0732	ADL	0.404	ADL	0.0507	ADL	0.182	ADL	0.0456	ADL	ADL	0.197
2,2,3',4,4'-TeCB (PCB-66)	0.0365	ADL	0.145	ADL	0.0251	ADL	0.0899	ADL	0.0230	ADL	0.0473	ADL	0.0165	ADL	ADL	0.0548
3,3,3',4,4'-TeCB (PCB-77)	0.0281	ADL	0.0309	BDL	0.0144	ADL	0.0136	ADL	0.0310	BDL	0.0306	BDL	0.00600	ADL	ADL	0.0221
3,4,4',5'-TeCB (PCB-81)	0.0224	BDL	0.0236	BDL	0.0213	BDL	0.0228	BDL	0.0236	BDL	0.0233	BDL	0.0186	BDL	BDL	0.0222
2,2,2',4,5,5'-PeCB (PCB-101)	0.0348	ADL	0.847	ADL	0.0253	ADL	0.654	ADL	0.0162	ADL	0.211	ADL	0.0178	ADL	ADL	0.258
2,2,3,3',4,4'-PeCB (PCB-105)	0.0111	ADL	0.358	ADL	0.0226	BDL	0.368	ADL	0.0251	BDL	0.102	ADL	0.0198	BDL	BDL	0.130
2,2,3,4,4',5'-PeCB (PCB-114)	0.00524	ADL	0.0199	ADL	0.0366	BDL	0.0264	ADL	0.0406	ADL	0.00837	ADL	0.0320	BDL	BDL	0.0242
2,2,3',4,4',5'-PeCB (PCB-118)	0.0123	ADL	0.916	ADL	0.0133	ADL	0.939	ADL	0.00794	ADL	0.248	ADL	0.00765	ADL	ADL	0.306
2',3,4,4',5'-PeCB (PCB-123)	0.0400	BDL	0.0168	ADL	0.0379	BDL	0.0168	ADL	0.0421	BDL	0.0415	BDL	0.0332	BDL	BDL	0.0326
3,3,3',4,4',5'-PeCB (PCB-126)	0.0288	BDL	0.0302	ADL	0.0273	BDL	0.0292	BDL	0.0302	BDL	0.0298	BDL	0.0239	BDL	BDL	0.0285
2,2,2',3,3',4,4'-HxCB (PCB-128)	0.0477	BDL	0.156	ADL	0.00139	ADL	0.136	ADL	0.0502	BDL	0.0289	ADL	0.00127	ADL	ADL	0.0603
2,2,2',3,4,4',5'-HxCB (PCB-138)	0.0183	ADL	1.14	ADL	0.0118	ADL	1.12	ADL	0.00777	ADL	0.286	ADL	0.00520	ADL	ADL	0.371
2,2,2',4,4',5,5'-HxCB (PCB-153)	0.0206	ADL	0.805	ADL	0.0160	ADL	0.773	ADL	0.00807	ADL	0.175	ADL	0.00683	ADL	ADL	0.258
2,2,3,3',4,4',5'-HxCB (PCB-156)	0.0596	BDL	0.0459	ADL	0.0566	BDL	0.0566	ADL	0.00128	ADL	0.0183	ADL	0.00138	ADL	ADL	0.0342
2,2,3,3',4,4',5'-HxCB (PCB-157)	0.0596	BDL	0.0459	ADL	0.0566	BDL	0.0566	ADL	0.00128	ADL	0.0183	ADL	0.00138	ADL	ADL	0.0342
2,2,3',4,4',5,5'-HxCB (PCB-167)	0.0421	BDL	0.0213	ADL	0.0399	BDL	0.0207	ADL	0.00104	ADL	0.00760	ADL	0.0349	BDL	BDL	0.0239
3,3,3',4,4',5,5'-HxCB (PCB-169)	0.0288	BDL	0.0302	BDL	0.0273	BDL	0.0292	BDL	0.0302	BDL	0.0298	BDL	0.0239	BDL	BDL	0.0285
2,2,2',3,3',4,4',5'-HpCB (PCB-170)	0.00202	ADL	0.00845	ADL	9.47E-04	ADL	0.0179	ADL	0.0325	BDL	0.00595	ADL	0.00167	ADL	ADL	0.00991
2,2,2',3,4,4',5,5'-HpCB (PCB-180)	0.00468	ADL	0.0381													

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

Run Number Date	Run 1 05/07/24	Run 2 05/07/24	Run 3 05/08/24	Run 4 05/08/24	Run 5 05/09/24	Run 6 05/09/24	Run 7 05/10/24	Flag Average
	Flag	Flag	Flag	Flag	Flag	Flag	Flag	
2,4'-DiCB (PCB-8)	0.0880	ADL	0.0713	ADL	0.0477	ADL	0.0446	ADL 0.179
2,2',5'-TriCB (PCB-18)	0.0564	BDL	0.0533	BDL	0.0599	BDL	0.0469	BDL 0.0894
2,4,4'-TriCB (PCB-28)	0.106	ADL	0.0844	ADL	0.0601	ADL	0.0518	ADL 0.182
2,2',3,5'-TeCB (PCB-44)	0.791	ADL	0.749	ADL	0.525	ADL	0.423	ADL 0.776
2,2',5,5'-TeCB (PCB-52)	0.0720	ADL	0.0618	ADL	0.0433	ADL	0.0387	ADL 0.166
2,3',4,4'-TeCB (PCB-66)	0.0309	ADL	0.0211	ADL	0.0196	ADL	0.0140	ADL 0.0463
3,3',4,4'-TeCB (PCB-77)	0.0237	ADL	0.0122	ADL	0.0265	BDL	0.00509	ADL 0.0187
3,4,4',5'-TeCB (PCB-81)	0.0190	BDL	0.0180	BDL	0.0202	BDL	0.0158	BDL 0.0188
2,2',4,5,5'-PeCB (PCB-101)	0.0295	ADL	0.0213	ADL	0.0139	ADL	0.0151	ADL 0.218
2,3,3',4,4'-PeCB (PCB-105)	0.00936	ADL	0.0191	BDL	0.0214	BDL	0.0168	BDL 0.109
2,3,4,4',5'-PeCB (PCB-114)	0.00443	ADL	0.0168	BDL	0.0347	BDL	0.0272	BDL 0.0205
2,3',4,4',5'-PeCB (PCB-118)	0.0104	ADL	0.0112	ADL	0.00679	ADL	0.00648	ADL 0.258
2',3,4,4',5'-PeCB (PCB-123)	0.0338	BDL	0.0320	BDL	0.0359	BDL	0.0281	BDL 0.0276
3,3',4,4',5'-PeCB (PCB-126)	0.0243	BDL	0.0230	BDL	0.0258	BDL	0.0202	BDL 0.0241
2,2',3,3',4,4'-HxCB (PCB-128)	0.0404	BDL	0.0118	ADL	0.0429	BDL	0.00108	ADL 0.0510
2,2',3,4,4',5'-HxCB (PCB-138)	0.0155	ADL	0.00992	ADL	0.00664	ADL	0.00441	ADL 0.313
2,2',4,4',5,5'-HxCB (PCB-153)	0.0175	ADL	0.0135	ADL	0.00689	ADL	0.00579	ADL 0.218
2,3,3',4,4',5'-HxCB (PCB-156)	0.0504	BDL	0.0477	BDL	0.00109	ADL	0.00117	ADL 0.0289
2,3,3',4,4',5'-HxCB (PCB-157)	0.0504	BDL	0.0387	BDL	0.00109	ADL	0.00117	ADL 0.0289
2,3',4,4',5,5'-HxCB (PCB-167)	0.0356	BDL	0.0180	BDL	8.84E-04	ADL	0.0296	BDL 0.0202
3,3',4,4',5,5'-HxCB (PCB-169)	0.0243	BDL	0.0255	BDL	0.0258	BDL	0.0202	BDL 0.0241
2,2',3,3',4,4',5'-HpCB (PCB-170)	0.00171	ADL	0.00712	ADL	0.0277	BDL	0.00141	ADL 0.00841
2,2',3,4,4',5,5'-HpCB (PCB-180)	0.00396	ADL	0.0321	ADL	0.00313	ADL	0.00247	ADL 0.0126
2,2',3,4,4',5,5'-HpCB (PCB-187)	0.00281	ADL	0.0269	ADL	0.00286	ADL	0.0207	BDL 0.0128
2,3,3',4,4',5,5'-HpCB (PCB-189)	0.0291	BDL	0.0304	BDL	0.0309	BDL	0.0242	BDL 0.0288
2,2',3,3',4,4',5,6'-OxCB (PCB-195)	0.0315	BDL	0.0329	BDL	0.0334	BDL	0.0262	BDL 0.0312
2,2',3,3',4,4',5,5',6'-NoCB (PCB-206)	0.0338	BDL	0.0354	BDL	0.0359	BDL	0.0281	BDL 0.0335
2,2',3,3',4,4',5,5',6,6'-DeCB (PCB-209)	0.00394	ADL	0.00940	ADL	6.98E-04	ADL	0.0227	ADL 0.00654
Total PCB	1.64	DLL	1.48	DLL	1.16	DLL	0.94	DLL 2.95

Testing Methodology

3.0 Testing Methodology

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

Table 3-1: Source Testing Methodology

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

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

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

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

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

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

The oxygen (O₂) and carbon dioxide (CO₂) testing was conducted in accordance with U.S. EPA Reference Test Method 3A. Data was collected online and reported in one-minute averages. The sampling system consisted of a stainless-steel probe, Teflon sample line(s), gas conditioning system and the identified gas analyzer. The gas conditioning system was a non-contact condenser used to remove moisture from the stack gas. A heated Teflon sample line was used. The quality control measures are described in Section 3.8.

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

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

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

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

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

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

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

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

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

Targeted PAH and PCB analytes are detailed below:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

To determine the number of sampling points, a gas stratification check was conducted prior to initiating testing. The pollutant concentrations were measured at fifteen traverse points (as described in Method 1). Each traverse point was sampled for a minimum of twice the system response time.

The diluent concentration at each traverse point did not differ more than 5 percent of the average pollutant concentration, and single point sampling was conducted during the test runs. Copies of stratification check data can be found in the Field Data Appendix.

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

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

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

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

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

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

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

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

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

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

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

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

Appendix A

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Run No.: 1
Parameters: PAH, PCB

Meter Pressure (Pm), in. Hg

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

where,

P_b	$\frac{29.81}{}$	= barometric pressure, in. Hg
ΔH	$\frac{1.320}{}$	= pressure differential of orifice, in H ₂ O
P_m	$\frac{29.91}{}$	= in. Hg

Absolute Stack Gas Pressure (Ps), in. Hg

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

where,

P_b	$\frac{29.81}{}$	= barometric pressure, in. Hg
P_g	$\frac{0.10}{}$	= static pressure, in. H ₂ O
P_s	$\frac{29.82}{}$	= in. Hg

Standard Meter Volume (Vmstd), dscf

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

where,

Y	$\frac{0.984}{}$	= meter correction factor
V_m	$\frac{155.673}{}$	= meter volume, cf
P_m	$\frac{29.91}{}$	= absolute meter pressure, in. Hg
T_m	$\frac{535.0}{}$	= absolute meter temperature, °R
$Vmstd$	$\frac{151.026}{}$	= dscf

Standard Wet Volume (Vwstd), scf

$$Vwstd = 0.04716 \times V_{lc}$$

where,

V_{lc}	$\frac{850.5}{}$	= weight of H ₂ O collected, g
$Vwstd$	$\frac{40.110}{}$	= scf

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

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

where,

T_s	$\frac{397.4}{}$	= stack temperature, °F
P_s	$\frac{29.82}{}$	= absolute stack gas pressure, in. Hg
BWS_{sat}	$\frac{15.301}{}$	= dimensionless

Location: **BASF - Geismar, LA**
Source: **No. 3 Boiler EQT0161/UTL15**
Project No.: **AST-2024-2573**
Run No.: **1**
Parameters: **PAH, PCB**

Moisture Fraction (BWS), dimensionless (measured)

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

where,

V_{wstd}	<u>40.110</u>	= standard wet volume, scf
V_{mstd}	<u>151.026</u>	= standard meter volume, dscf
BWS	<u>0.210</u>	= dimensionless

Moisture Fraction (BWS), dimensionless

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

where,

BWS_{sat}	<u>15.301</u>	= moisture fraction (theoretical at saturated conditions)
BWS_{msd}	<u>0.210</u>	= moisture fraction (measured)
BWS	<u>0.210</u>	

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

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

where,

CO_2	<u>10.37</u>	= carbon dioxide concentration, %
O_2	<u>4.47</u>	= oxygen concentration, %
Md	<u>29.84</u>	= lb/lb mol

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

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

where,

Md	<u>29.84</u>	= molecular weight (DRY), lb/lb mol
BWS	<u>0.210</u>	= moisture fraction, dimensionless
Ms	<u>27.36</u>	= lb/lb mol

Average Velocity (Vs), ft/sec

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

where,

C_p	<u>0.799</u>	= pitot tube coefficient
$\Delta P^{1/2}$	<u>0.436</u>	= velocity head of stack gas, (in. H ₂ O) ^{1/2}
T_s	<u>857.0</u>	= absolute stack temperature, °R
P_s	<u>29.82</u>	= absolute stack gas pressure, in. Hg
M_s	<u>27.36</u>	= molecular weight of stack gas, lb/lb mol
V_s	<u>30.5</u>	= ft/sec

Location: **BASF - Geismar, LA**
Source: **No. 3 Boiler EQT0161/UTL15**
Project No.: **AST-2024-2573**
Run No.: **1**
Parameters: **PAH, PCB**

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

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

where,

$$\begin{aligned} V_s &= \frac{30.5}{\text{ft/sec}} = \text{stack gas velocity, ft/sec} \\ A_s &= \frac{31.33}{\text{ft}^2} = \text{cross-sectional area of stack, ft}^2 \\ Q_a &= \frac{57,428}{\text{acfm}} = \text{acfm} \end{aligned}$$

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

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

where,

$$\begin{aligned} Q_a &= \frac{57,428}{\text{acfm}} = \text{average stack gas flow at stack conditions, acfm} \\ \text{BWS} &= \frac{0.210}{\text{dimensionless}} = \text{moisture fraction, dimensionless} \\ P_s &= \frac{29.82}{\text{in. Hg}} = \text{absolute stack gas pressure, in. Hg} \\ T_s &= \frac{857.0}{\text{°R}} = \text{absolute stack temperature, °R} \\ Q_s &= \frac{27,843}{\text{dscfm}} = \text{dscfm} \end{aligned}$$

Dry Gas Meter Calibration Check (Yqa), dimensionless

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

where,

$$\begin{aligned} Y &= \frac{0.984}{\text{dimensionless}} = \text{meter correction factor, dimensionless} \\ \Theta &= \frac{250}{\text{min.}} = \text{run time, min.} \\ V_m &= \frac{155.673}{\text{dcf}} = \text{total meter volume, dcf} \\ T_m &= \frac{535.0}{\text{°R}} = \text{absolute meter temperature, °R} \\ \Delta H @ &= \frac{1.949}{\text{in. H}_2\text{O}} = \text{orifice meter calibration coefficient, in. H}_2\text{O} \\ P_b &= \frac{29.81}{\text{in. Hg}} = \text{barometric pressure, in. Hg} \\ \Delta H_{avg} &= \frac{1.320}{\text{in. H}_2\text{O}} = \text{average pressure differential of orifice, in. H}_2\text{O} \\ M_d &= \frac{29.84}{\text{lb/lb mol}} = \text{molecular weight (DRY), lb/lb mol} \\ (\Delta H)^{1/2} &= \frac{1.133}{\text{(in. H}_2\text{O})^{1/2}} = \text{average squareroot pressure differential of orifice, (in. H}_2\text{O})^{1/2} \\ Y_{qa} &= \frac{1.3}{\text{percent}} = \text{percent} \end{aligned}$$

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Run No.: 1
Parameters: PAH, PCB

Volume of Nozzle (Vn), ft³

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

where,

Ts	857.0	= absolute stack temperature, °R
Ps	29.82	= absolute stack gas pressure, in. Hg
Vlc	850.5	= volume of H ₂ O collected, ml
Vm	155.673	= meter volume, cf
Pm	29.91	= absolute meter pressure, in. Hg
Y	0.984	= meter correction factor, unitless
Tm	535.0	= absolute meter temperature, °R
Vn	311.384	= volume of nozzle, ft ³

Isokinetic Sampling Rate (I), %

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

where,

Vn	311.384	= nozzle volume, ft ³
θ	250.0	= run time, minutes
An	0.00067	= area of nozzle, ft ²
Vs	30.5	= average velocity, ft/sec
I	101.1	= %

Location: **BASF - Geismar, LA**
Source: **No. 3 Boiler EQT0161/UTL15**
Project No.: **AST-2024-2573**
Run No.: **1**
Parameters: **PCB, PAH**

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

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

where,

M_{PCB-8}	<u>0.445</u>	= 2,4'-DiCB (PCB-8) mass, ng
$Vmstd$	<u>151.026</u>	= standard meter volume, dscf
C_{PCB-8}	<u>0.104</u>	= 2,4'-DiCB (PCB-8) Concentration, ng/dscm

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

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

where,

M_{PCB-8}	<u>0.445</u>	= 2,4'-DiCB (PCB-8) mass, ng
$Vmstd$	<u>151.026</u>	= standard meter volume, dscf
O_2	<u>4.47</u>	= measured O_2 Concentration, %d
$C_{PCB-8c-7}$	<u>0.0880</u>	= 2,4'-DiCB Concentration, ng/dscm @ 7% O_2

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

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

where,

$M_{C_{10}H_8}$	<u>393</u>	= Naphthalene mass, ng
$Vmstd$	<u>151.026</u>	= standard meter volume, dscf
$C_{C_{10}H_8}$	<u>91.9</u>	= Naphthalene Concentration, ng/dscm

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

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

where,

$M_{C_{10}H_8}$	<u>393</u>	= Naphthalene mass, ng
$Vmstd$	<u>151.026</u>	= standard meter volume, dscf
O_2	<u>4.47</u>	= measured O_2 Concentration, %d
$C_{C_{10}H_8c-7}$	<u>77.7</u>	= Naphthalene Concentration, ng/dscm @ 7% O_2

Location: BASF - Geismar, LA

Source: No. 3 Boiler EQT0161/UTL15

Project No.: AST-2024-2573

Run No. /Method Run 1 / Method 3A

O₂ - Outlet Concentration (C_{O₂}), % dry

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

where,

C_{obs}	4.68	= average analyzer value during test, % dry
C_0	0.16	= average of pretest & posttest zero responses, % dry
C_{MA}	11.00	= actual concentration of calibration gas, % dry
C_M	11.30	= average of pretest & posttest calibration responses, % dry
C_{O_2}	4.47	= O ₂ Concentration, % dry

CO₂ - Outlet Concentration (C_{CO₂}), % dry

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

where,

C_{obs}	10.51	= average analyzer value during test, % dry
C_0	0.05	= average of pretest & posttest zero responses, % dry
C_{MA}	11.00	= actual concentration of calibration gas, % dry
C_M	11.15	= average of pretest & posttest calibration responses, % dry
C_{CO_2}	10.37	= CO ₂ Concentration, % dry

Location: BASF - Geismar, LA

Source: No. 3 Boiler EQT0161/UTL15

Project No.: AST-2024-2573

Run No. /Method Run 1 / Method 25A

THC - Outlet Concentration (as C₃H₈) (C_{THC}), ppmvd

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

where,

C_{THCw}	<u>0.198</u>	= THC - Outlet Concentration (as C ₃ H ₈), ppmvw
BWS	<u>0.210</u>	= moisture fraction, unitless
C_{THC}	<u>0.251</u>	= ppmvd

THC - Outlet Concentration (as C₃H₈) (C_{THC7}), ppmvd @ 7% O₂

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

where,

C_{THC}	<u>0.251</u>	= THC - Outlet Concentration (as C ₃ H ₈), ppmvd
O_2	<u>4.47</u>	= oxygen concentration, %
C_{THC7}	<u>0.213</u>	= ppmvd @7% O ₂

THC - Outlet Emission Rate (as C₃H₈) (ER_{THC}), lb/hr

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

where,

C_{THC}	<u>0.251</u>	= THC - Outlet Concentration (as C ₃ H ₈), ppmvd
MW	<u>44.1</u>	= THC molecular weight, g/g-mole
Qs	<u>27,843</u>	= stack gas volumetric flow rate at standard conditions, dscfm
ER _{THC}	<u>0.0481</u>	= lb/hr

Location: BASF - Geismar, LA

Source: No. 3 Boiler EQT0161/UTL15

Project No.: AST-2024-2573

Run No. /Method Run 1 / Method 320

HCN - Outlet Concentration (C_{HCN}), ppmvd

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

where,

$$\begin{array}{ll} C_{\text{HCNw}} \frac{1.91}{\text{BWS}} & = \text{HCN - Outlet Concentration, ppmvw} \\ \frac{0.210}{C_{\text{HCN}}} & = \text{moisture fraction, unitless} \\ \frac{2.42}{C_{\text{HCN}}} & = \text{ppmvd} \end{array}$$

HCN - Outlet Concentration (C_{HCNc7}), ppmvd @ 7% O₂

$$C_{\text{HCNc7}} = C_{\text{HCN}} \times \left(\frac{20.9 - 7}{20.9 - \text{O}_2} \right)$$

where,

$$\begin{array}{ll} C_{\text{HCN}} \frac{2.42}{C_{\text{O}_2}} & = \text{HCN - Outlet Concentration, ppmvd} \\ \frac{4.47}{C_{\text{O}_2}} & = \text{oxygen concentration, \%} \\ \frac{2.05}{C_{\text{HCNc7}}} & = \text{ppmvd @7\% O}_2 \end{array}$$

HCN - Outlet Emission Rate (ER_{HCN}), lb/hr

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

where,

$$\begin{array}{ll} C_{\text{HCN}} \frac{2.42}{\text{MW}} & = \text{HCN - Outlet Concentration, ppmvd} \\ \frac{27.03}{\text{MW}} & = \text{HCN molecular weight, g/g-mole} \\ \frac{27,843}{\text{Qs}} & = \text{stack gas volumetric flow rate at standard conditions, dscfm} \\ \frac{0.284}{\text{ER}_{\text{HCN}}} & = \text{lb/hr} \end{array}$$

Location BASF - Geismar, LA
Source No. 3 Boiler EQT0161/UTL15
Project No. AST-2024-2573
Dates 5/6/24-5/10/24

CTS Recovery Value (CTS_R), %

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

Where,

CTS _{avg}	<u>98.00</u>	= average of all CTS calibration gas readings, ppm
CTS _{cyl}	<u>100</u>	= CTS bottle certified gas value, ppm
CTS _R	<u>98.0%</u>	= CTS recovery value, %

Spike Dilution Factor (DF), %

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

Where,

SF6 _{dir}	<u>10.195</u>	= average of direct tracer gas value readings
SF6 _{nat}	<u>0.010</u>	= average of native tracer gas value readings
SF6 _{spike}	<u>0.999</u>	= average of dynamic spike tracer gas value readings
DF	<u>9.7%</u>	= spike dilution factor, %

Calculated Spike (Spike_{calc}), ppm

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

Where,

DF	<u>9.7%</u>	= spike dilution factor, %
Analyte _{dir}	<u>160.02</u>	= average of direct analyte gas values, ppm
Analyte _{nat}	<u>2.41</u>	= average of native analyte gas values, ppm
Spike _{calc}	<u>17.70</u>	= calculated spike, ppm value, ppm

Spike Recovery Value (Spike_R), %

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

Where,

Spike _{calc}	<u>17.70</u>	= calculated spike, ppm value, ppm
Analyte _{spike}	<u>16.93</u>	= average of spiked analyte gas values, ppm
Spike _R	<u>95.65%</u>	= spike recovery value, %

Appendix B

Emission Calculations

Location BASF - Geismar, LA
Source No. 3 Boiler EQT0161/UTL15
Project No. AST-2024-2573

Run Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/7/24	5/7/24	5/8/24	5/8/24	5/9/24	5/9/24	5/10/24	--
Start Time		8:55	14:25	8:25	13:36	8:15	14:00	8:15	--
Stop Time		13:26	18:55	12:56	18:07	13:06	18:32	12:42	--
Input Data - Outlet									
Moisture Fraction, dimensionless	BWS	0.210	0.218	0.198	0.198	0.206	0.210	0.190	0.204
Volumetric Flow Rate (M1-4), dscfm	Qs	27,843	26,135	29,545	27,681	26,710	26,741	34,078	28,390
Calculated Data - Outlet									
O ₂ Concentration, % dry	C _{O₂}	4.47	4.41	4.42	4.43	4.63	4.42	4.51	4.47
CO ₂ Concentration, % dry	C _{CO₂}	10.37	10.89	10.88	10.91	10.44	10.23	10.81	10.65
THC (as C ₃ H ₈) Concentration, ppmvd	C _{THC}	0.251	0.130	0.191	0.345	0.517	0.890	0.144	0.352
THC (as C ₃ H ₈) Concentration, ppmvw	C _{THCw}	0.198	0.101	0.153	0.276	0.410	0.703	0.116	0.280
THC (as C ₃ H ₈) Concentration, ppmvd @ 7 % O ₂	C _{THCc7}	0.213	0.109	0.161	0.291	0.441	0.751	0.122	0.298
THC (as C ₃ H ₈) Emission Rate, lb/hr	ER _{THC}	0.0481	0.0233	0.0388	0.0655	0.0949	0.1636	0.0337	0.0668
FTIR Calculated Data									
HCN - Outlet Concentration, ppmvd	C _{HCN}	2.42	2.60	2.60	2.50	2.48	2.64	2.62	2.54
HCN - Outlet Concentration, ppmvw	C _{HCNw}	1.91	2.03	2.09	2.00	1.97	2.09	2.12	2.01
HCN - Outlet Concentration, ppmvd @ 7 % O ₂	C _{HCNc15}	2.05	2.19	2.19	2.11	2.12	2.23	2.22	2.15
HCN - Outlet Emission Rate, lb/hr	ER _{HCN}	0.284	0.286	0.324	0.291	0.279	0.298	0.377	0.293

Location BASF - Geismar, LA
Source No. 3 Boiler EQT0161/UTL15
Project No. AST-2024-2573
Parameter: PAH

Trap Set Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/7/24	5/7/24	5/8/24	5/8/24	5/9/24	5/9/24	5/10/24	--
Start Time		8:55	14:25	8:25	13:36	8:15	14:00	8:15	--
Stop Time		13:27	18:56	12:57	18:08	13:07	18:33	12:43	--
Input Data									
Standard Meter Volume, ft ³	(Vmstd)	151.026	143.824	159.153	148.545	143.607	145.528	181.969	150.637
O ₂ Concentration, % dry	(O ₂)	4.47	4.41	4.42	4.43	4.63	4.42	4.51	4.43
Emissions Calculations									
Naphthalene Concentration, ng/dscm	C _{10H8}	91.9	195	73.4	122	50.7	104	36.7	96.4
Naphthalene Concentration, ng/dscm @ 7% O ₂	C _{10H8} ^c	77.7	165	61.9	103	43.3	87.8	31.1	81.4
2-Methylnaphthalene Concentration, ng/dscm	C _{11H10}	79.5	234	65.9	149	37.9	96.8	26.0	98.5
2-Methylnaphthalene Concentration, ng/dscm @ 7% O ₂	C _{11H10} ^c	67.3	197	55.6	126	32.4	81.7	22.1	83.1
Acenaphthylene Concentration, ng/dscm	C _{12H8}	3.81	7.78	4.50	4.35	3.44	4.10	2.87	4.41
Acenaphthylene Concentration, ng/dscm @ 7% O ₂	C _{12H8} ^c	3.22	6.56	3.80	3.67	2.94	3.46	2.44	3.73
Acenaphthene Concentration, ng/dscm	C _{12H10}	15.0	22.1	15.0	13.8	13.1	15.9	9.51	14.9
Acenaphthene Concentration, ng/dscm @ 7% O ₂	C _{12H10} ^c	12.7	18.6	12.6	11.6	11.2	13.4	8.06	12.6
Fluorene Concentration, ng/dscm	C _{13H10}	40.9	57.9	42.2	38.8	32.0	41.7	25.2	39.8
Fluorene Concentration, ng/dscm @ 7% O ₂	C _{13H10} ^c	34.6	48.8	35.6	32.7	27.3	35.2	21.4	33.7
Phenanthrene Concentration, ng/dscm	C _{14H10}	125	227	124	186	104	166	84.4	145
Phenanthrene Concentration, ng/dscm @ 7% O ₂	C _{14H10} ^c	105	191	105	157	88.4	140	71.6	123
Anthracene Concentration, ng/dscm	C _{14H10}	11.6	18.8	0.0666	14.9	12.1	18.3	10.9	12.4
Anthracene Concentration, ng/dscm @ 7% O ₂	C _{14H10} ^c	9.81	15.8	0.0561	12.6	10.3	15.4	9.28	10.5
Fluoranthene Concentration, ng/dscm	C _{16H10}	21.3	22.0	17.5	20.2	21.3	22.4	20.0	20.7
Fluoranthene Concentration, ng/dscm @ 7% O ₂	C _{16H10} ^c	18.1	18.5	14.7	17.1	18.2	18.9	17.0	17.5
Pyrene Concentration, ng/dscm	C _{16H10}	19.3	26.0	15.7	24.5	17.6	26.9	17.1	21.0
Pyrene Concentration, ng/dscm @ 7% O ₂	C _{16H10} ^c	16.3	21.9	13.2	20.7	15.1	22.7	14.5	17.8
Benzo[a]anthracene Concentration, ng/dscm	C _{18H12}	0.884	0.494	0.610	0.421	0.649	0.733	0.854	0.663
Benzo[a]anthracene Concentration, ng/dscm @ 7% O ₂	C _{18H12} ^c	0.748	0.416	0.515	0.355	0.555	0.618	0.724	0.562
Chrysene Concentration, ng/dscm	C _{18H12}	3.51	1.73	2.75	1.74	3.22	2.39	3.86	2.74
Chrysene Concentration, ng/dscm @ 7% O ₂	C _{18H12} ^c	2.97	1.46	2.32	1.47	2.75	2.02	3.28	2.32
Benzo[b]fluoranthene Concentration, ng/dscm	C _{20H12}	1.43	1.15	1.15	1.35	1.38	2.13	1.96	1.51
Benzo[b]fluoranthene Concentration, ng/dscm @ 7% O ₂	C _{20H12} ^c	1.21	0.969	0.973	1.14	1.18	1.80	1.66	1.28
Benzo[k]fluoranthene Concentration, ng/dscm	C _{20H12}	0.545	0.309	0.402	0.326	0.302	0.546	0.528	0.423
Benzo[k]fluoranthene Concentration, ng/dscm @ 7% O ₂	C _{20H12} ^c	0.461	0.261	0.339	0.275	0.258	0.461	0.448	0.357
Benzo[e]pyrene Concentration, ng/dscm	C _{20H12}	5.00	3.81	2.26	5.47	2.63	7.94	3.65	4.39
Benzo[e]pyrene Concentration, ng/dscm @ 7% O ₂	C _{20H12} ^c	4.23	3.21	1.91	4.61	2.25	6.69	3.09	3.71
Benzo[a]pyrene Concentration, ng/dscm	C _{20H12}	1.21	0.911	0.395	0.716	0.598	1.36	0.734	0.846
Benzo[a]pyrene Concentration, ng/dscm @ 7% O ₂	C _{20H12} ^c	1.02	0.768	0.333	0.604	0.511	1.15	0.622	0.715
Perylene Concentration, ng/dscm	C _{20H12}	0.531	0.300	0.0639	0.141	0.106	0.432	0.250	0.261
Perylene Concentration, ng/dscm @ 7% O ₂	C _{20H12} ^c	0.449	0.253	0.0539	0.119	0.0908	0.364	0.212	0.220
Indeno[1,2,3-cd]pyrene Concentration, ng/dscm	C _{22H12}	2.69	2.09	1.40	2.24	1.39	3.42	1.51	2.11
Indeno[1,2,3-cd]pyrene Concentration, ng/dscm @ 7% O ₂	C _{22H12} ^c	2.27	1.76	1.18	1.89	1.19	2.89	1.28	1.78
Dibenz(a,h)anthracene Concentration, ng/dscm	C _{22H14}	0.297	0.0398	0.0714	0.0180	0.0509	0.0728	0.0468	0.0852
Dibenz(a,h)anthracene Concentration, ng/dscm @ 7% O ₂	C _{22H14} ^c	0.251	0.0335	0.0603	0.0152	0.0435	0.0614	0.0397	0.0721
Benzo[g,h,i]perylene Concentration, ng/dscm	C _{22H12}	17.1	10.7	5.68	10.2	7.35	14.2	7.49	10.4
Benzo[g,h,i]perylene Concentration, ng/dscm @ 7% O ₂	C _{22H12} ^c	14.5	8.98	4.79	8.61	6.28	12.0	6.35	8.78
Summation									
Total PAH Concentrations, ng/dscm	C _{PAH}	441	832	373	597	309	529	254	477
Total PAH Concentrations, ng/dscm @ 7% O ₂	C _{PAHc}	373	701	315	504	264	446	215	403

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Emission Calculations

Location **BASF - Geismar, LA**
Source **No. 3 Boiler EQT0161/UTL15**
Project No. **AST-2024-2573**
Parameter: **PAH**

Trap Set Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/7/24	5/7/24	5/8/24	5/8/24	5/9/24	5/9/24	5/10/24	--
Start Time		8:55	14:25	8:25	13:36	8:15	14:00	8:15	--
Stop Time		13:27	18:56	12:57	18:08	13:07	18:33	12:43	--
Input Data									
Standard Meter Volume, ft ³	(Vmstd)	151.026	143.824	159.153	148.545	143.607	145.528	181.969	153.379
Volumetric Flow Rate, dscfm	(Qs)	27,843	26,135	29,545	27,681	26,710	26,741	34,078	28,391
O2 Concentration, % dry	(O ₂)	4.47	4.41	4.42	4.43	4.63	4.42	4.51	4.47
Emissions Calculations									
Naphthalene Emission Rate, lb/hr	ER _{C10H8}	9.58E-06	1.91E-05	8.13E-06	1.27E-05	5.07E-06	1.04E-05	4.68E-06	9.96E-06
2-Methylnaphthalene Emission Rate, lb/hr	ER _{C11H10}	8.29E-06	2.29E-05	7.29E-06	1.55E-05	3.79E-06	9.70E-06	3.32E-06	1.01E-05
Acenaphthylene Emission Rate, lb/hr	ER _{C12H8}	3.98E-07	7.62E-07	4.99E-07	4.51E-07	3.44E-07	4.11E-07	3.67E-07	4.62E-07
Acenaphthene Emission Rate, lb/hr	ER _{C12H10}	1.56E-06	2.16E-06	1.66E-06	1.43E-06	1.31E-06	1.60E-06	1.21E-06	1.56E-06
Fluorene Emission Rate, lb/hr	ER _{C13H10}	4.27E-06	5.67E-06	4.67E-06	4.02E-06	3.20E-06	4.18E-06	3.22E-06	4.17E-06
Phenanthrene Emission Rate, lb/hr	ER _{C14H10}	1.30E-05	2.22E-05	1.38E-05	1.93E-05	1.04E-05	1.66E-05	1.08E-05	1.51E-05
Anthracene Emission Rate, lb/hr	ER _{C14H10}	1.21E-06	1.84E-06	7.37E-09	1.54E-06	1.21E-06	1.83E-06	1.40E-06	1.29E-06
Fluoranthene Emission Rate, lb/hr	ER _{C14H10}	2.23E-06	2.15E-06	1.93E-06	2.10E-06	2.13E-06	2.25E-06	2.55E-06	2.19E-06
Pyrene Emission Rate, lb/hr	ER _{C16H10}	2.01E-06	2.55E-06	1.74E-06	2.54E-06	1.76E-06	2.70E-06	2.19E-06	2.21E-06
Benzo[a]anthracene Emission Rate, lb/hr	ER _{C18H12}	9.22E-08	4.83E-08	6.75E-08	4.36E-08	6.50E-08	7.34E-08	1.09E-07	7.13E-08
Chrysene Emission Rate, lb/hr	ER _{C18H12}	3.66E-07	1.70E-07	3.05E-07	1.80E-07	3.22E-07	2.40E-07	4.93E-07	2.96E-07
Benzo[b]fluoranthene Emission Rate, lb/hr	ER _{C20H12}	1.49E-07	1.12E-07	1.28E-07	1.40E-07	1.38E-07	2.14E-07	2.50E-07	1.62E-07
Benzo[k]fluoranthene Emission Rate, lb/hr	ER _{C20H12}	5.68E-08	3.03E-08	4.44E-08	3.38E-08	3.03E-08	5.47E-08	6.74E-08	4.54E-08
Benzo[e]pyrene Emission Rate, lb/hr	ER _{C20H12}	5.22E-07	3.73E-07	2.50E-07	5.67E-07	2.63E-07	7.95E-07	4.66E-07	4.62E-07
Benzo[a]pyrene Emission Rate, lb/hr	ER _{C20H12}	1.26E-07	8.92E-08	4.37E-08	7.42E-08	5.98E-08	1.36E-07	9.36E-08	8.90E-08
Perylene Emission Rate, lb/hr	ER _{C20H12}	5.54E-08	2.93E-08	7.07E-09	1.47E-08	1.06E-08	4.33E-08	3.20E-08	2.75E-08
Indeno[1,2,3-cd]pyrene Emission Rate, lb/hr	ER _{C22H12}	2.80E-07	2.05E-07	1.54E-07	2.33E-07	1.40E-07	3.43E-07	1.93E-07	2.21E-07
Dibenz(a,h)anthracene Emission Rate, lb/hr	ER _{C22H14}	3.10E-08	3.89E-09	7.91E-09	1.86E-09	5.09E-09	7.29E-09	5.97E-09	9.00E-09
Benzo[g,h,i]perylene Emission Rate, lb/hr	ER _{C22H12}	1.79E-06	1.04E-06	6.29E-07	1.06E-06	7.36E-07	1.42E-06	9.56E-07	1.09E-06
Summation									
Total PAHs, lb/hr	ER _{PAH}	4.60E-05	8.14E-05	4.13E-05	6.19E-05	3.09E-05	5.30E-05	3.24E-05	4.96E-05

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Location BASF - Geismar, LA

Source No. 3 Boiler EQ10161/UTLI5

Project No. AST-2024-2573

Parameter: PAH

	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7
Naphthalene Mass, ng	393	796	331	515	206	429	189
2-Methylnaphthalene Mass, ng	340	952	297	628	154	399	134
Acenaphthylene Mass, ng	16.3	31.7	20.3	18.3	14.0	16.9	14.8
Acenaphthene Mass, ng	64.1	90.0	67.5	57.9	53.1	65.7	49.0
Fluorene Mass, ng	175	236	190	163	130	172	130
Phenanthrene Mass, ng	533	923	560	783	421	683	435
Anthracene Mass, ng	49.6	76.5	0.300	62.6	49.2	75.3	56.4
Fluoranthene Mass, ng	91.3	89.4	78.7	85.0	86.5	92.5	103
Pyrene Mass, ng	82.4	106	70.7	103	71.7	111	88.2
Benzo[a]anthracene Mass, ng	3.78	2.01	2.75	1.77	2.64	3.02	4.40
Chrysene Mass, ng	15.0	7.06	12.4	7.32	13.1	9.86	19.9
Benzo[b]fluoranthene Mass, ng	6.13	4.68	5.20	5.67	5.60	8.79	10.1
Benzo[k]fluoranthene Mass, ng	2.33	1.26	1.81	1.37	1.23	2.25	2.72
Benzo[e]pyrene Mass, ng	21.4	15.5	10.2	23.0	10.7	32.7	18.8
Benzo[a]pyrene Mass, ng	5.16	3.71	1.78	3.01	2.43	5.61	3.78
Perylene Mass, ng	2.27	1.22	0.288	0.595	0.432	1.78	1.29
Indeno[1,2,3-cd]pyrene Mass, ng	11.5	8.52	6.29	9.44	5.67	14.1	7.80
Dibenz[a,h]anthracene Mass, ng	1.27	0.162	0.322	0.0756	0.207	0.300	0.241
Benzo[g,h,i]perylene Mass, ng	73.2	43.4	25.6	42.9	29.9	58.6	38.6

See analytical report for flag descriptors.

Underlined value denotes that the value was non-detect (ND) and is reported at the MDL. This is considered BDL in accordance with the ICR enclosure.

Location **BASF - Geismar, LA**
Source **No. 3 Boiler EQT0161/UTL15**
Project No. **AST-2024-2573**
Parameter: **PCB**

Trap Set Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/7/24	5/7/24	5/8/24	5/8/24	5/9/24	5/9/24	5/10/24	--
Start Time		8:55	14:25	8:25	13:36	8:15	14:00	8:15	--
Stop Time		13:27	18:56	12:57	18:08	13:07	18:33	12:43	--
Input Data									
Standard Meter Volume, ft ³	(Vmstd)	151.026	143.824	159.153	148.545	143.607	145.528	181.969	150.637
O ₂ Concentration, % dry	(O ₂)	4.47	4.41	4.42	4.43	4.63	4.42	4.51	4.43
Emissions Calculations									
2,4'-DiCB (PCB-8) Concentration, ng/dscm	C ₈	0.104	0.592	0.0845	0.399	0.0558	0.199	0.0526	0.212
2,4'-DiCB (PCB-8) Concentration, ng/dscm @ 7% O ₂	C _{8c}	0.0880	0.499	0.0713	0.337	0.0477	0.168	0.0446	0.179
2,2',5'-TrCB (PCB-18) Concentration, ng/dscm	C ₁₈	0.0666	0.237	0.0632	0.179	0.0701	0.0692	0.0553	0.106
2,2',5'-TrCB (PCB-18) Concentration, ng/dscm @ 7% O ₂	C _{18c}	0.0564	0.200	0.0533	0.151	0.0599	0.0583	0.0469	0.0894
2,4,4'-TrCB (PCB-28) Concentration, ng/dscm	C ₂₈	0.125	0.560	0.100	0.388	0.0703	0.209	0.0611	0.216
2,4,4'-TrCB (PCB-28) Concentration, ng/dscm @ 7% O ₂	C _{28c}	0.106	0.472	0.0844	0.327	0.0601	0.176	0.0518	0.182
2,2',3',5'-TeCB (PCB-44) Concentration, ng/dscm	C ₄₄	0.935	1.54	0.888	1.03	0.615	0.915	0.499	0.918
2,2',3',5'-TeCB (PCB-44) Concentration, ng/dscm @ 7% O ₂	C _{44c}	0.791	1.30	0.749	0.873	0.525	0.772	0.423	0.776
2,2',5',5'-TeCB (PCB-52) Concentration, ng/dscm	C ₅₂	0.0851	0.538	0.0732	0.404	0.0507	0.182	0.0456	0.197
2,2',5',5'-TeCB (PCB-52) Concentration, ng/dscm @ 7% O ₂	C _{52c}	0.0720	0.453	0.0618	0.341	0.0433	0.153	0.0387	0.166
2,3',4,4'-TeCB (PCB-66) Concentration, ng/dscm	C ₆₆	0.0365	0.145	0.0251	0.0899	0.0230	0.0473	0.0165	0.0548
2,3',4,4'-TeCB (PCB-66) Concentration, ng/dscm @ 7% O ₂	C _{66c}	0.0309	0.123	0.0211	0.0758	0.0196	0.0399	0.0140	0.0463
3,3',4,4'-TeCB (PCB-77) Concentration, ng/dscm	C ₇₇	0.0281	0.0309	0.0144	0.0136	0.0310	0.0306	0.00600	0.0221
3,3',4,4'-TeCB (PCB-77) Concentration, ng/dscm @ 7% O ₂	C _{77c}	0.0237	0.0261	0.0122	0.0115	0.0265	0.0258	0.00509	0.0187
3,4,4',5'-TeCB (PCB-81) Concentration, ng/dscm	C ₈₁	0.0224	0.0236	0.0213	0.0228	0.0236	0.0233	0.0186	0.0222
3,4,4',5'-TeCB (PCB-81) Concentration, ng/dscm @ 7% O ₂	C _{81c}	0.0190	0.0199	0.0180	0.0193	0.0202	0.0196	0.0158	0.0188
2,2',4,5',5'-PeCB (PCB-101) Concentration, ng/dscm	C ₁₀₁	0.0348	0.847	0.0253	0.654	0.0162	0.211	0.0178	0.258
2,2',4,5',5'-PeCB (PCB-101) Concentration, ng/dscm @ 7% O ₂	C _{101c}	0.0295	0.714	0.0213	0.552	0.0139	0.178	0.0151	0.218
2,3,3',4,4'-PeCB (PCB-105) Concentration, ng/dscm	C ₁₀₅	0.0111	0.358	0.0226	0.368	0.0251	0.102	0.0198	0.130
2,3,3',4,4'-PeCB (PCB-105) Concentration, ng/dscm @ 7% O ₂	C _{105c}	0.00936	0.302	0.0191	0.311	0.0214	0.0864	0.0168	0.109
2,3,4,4',5'-PeCB (PCB-114) Concentration, ng/dscm	C ₁₁₄	0.00524	0.0199	0.0366	0.0264	0.0406	0.00837	0.0320	0.0242
2,3,4,4',5'-PeCB (PCB-114) Concentration, ng/dscm @ 7% O ₂	C _{114c}	0.00443	0.0168	0.0309	0.0223	0.0347	0.00706	0.0272	0.0205
2,3',4,4',5'-PeCB (PCB-118) Concentration, ng/dscm	C ₁₁₈	0.0123	0.916	0.0133	0.939	0.00794	0.248	0.00765	0.306
2,3',4,4',5'-PeCB (PCB-118) Concentration, ng/dscm @ 7% O ₂	C _{118c}	0.0104	0.772	0.0112	0.793	0.00679	0.209	0.00648	0.258
2',3,4,4',5'-PeCB (PCB-123) Concentration, ng/dscm	C ₁₂₃	0.0400	0.0168	0.0379	0.0168	0.0421	0.0415	0.0332	0.0326
2',3,4,4',5'-PeCB (PCB-123) Concentration, ng/dscm @ 7% O ₂	C _{123c}	0.0338	0.0141	0.0320	0.0141	0.0359	0.0350	0.0281	0.0276
3,3',4,4',5'-PeCB (PCB-126) Concentration, ng/dscm	C ₁₂₆	0.0288	0.0302	0.0273	0.0292	0.0302	0.0298	0.0239	0.0285
3,3',4,4',5'-PeCB (PCB-126) Concentration, ng/dscm @ 7% O ₂	C _{126c}	0.0243	0.0255	0.0230	0.0247	0.0258	0.0252	0.0202	0.0241
2,2',3',4,4',5'-HxCB (PCB-128) Concentration, ng/dscm	C ₁₂₈	0.0477	0.156	0.00139	0.136	0.0502	0.0289	0.00127	0.0603
2,2',3',4,4',5'-HxCB (PCB-128) Concentration, ng/dscm @ 7% O ₂	C _{128c}	0.0404	0.132	0.00118	0.115	0.0429	0.0244	0.00108	0.0510
2,2',3,4,4',5'-HxCB (PCB-138) Concentration, ng/dscm	C ₁₃₈	0.0183	1.14	0.0118	1.12	0.00777	0.286	0.00520	0.371
2,2',3,4,4',5'-HxCB (PCB-138) Concentration, ng/dscm @ 7% O ₂	C _{138c}	0.0155	0.965	0.00992	0.947	0.00664	0.242	0.00441	0.313
2,2',4,4',5',5'-HxCB (PCB-153) Concentration, ng/dscm	C ₁₅₃	0.0206	0.805	0.0160	0.773	0.00807	0.175	0.00683	0.258
2,2',4,4',5',5'-HxCB (PCB-153) Concentration, ng/dscm @ 7% O ₂	C _{153c}	0.0175	0.679	0.0135	0.652	0.00689	0.148	0.00579	0.218
2,3,3',4,4',5'-HxCB (PCB-156) Concentration, ng/dscm	C ₁₅₆	0.0596	0.0459	0.0566	0.0566	0.00128	0.0183	0.00138	0.0342
2,3,3',4,4',5'-HxCB (PCB-156) Concentration, ng/dscm @ 7% O ₂	C _{156c}	0.0504	0.0387	0.0477	0.0478	0.00109	0.0155	0.00117	0.0289
2,3,3',4,4',5'-HxCB (PCB-157) Concentration, ng/dscm	C ₁₅₇	0.0596	0.0459	0.0566	0.0566	0.00128	0.0183	0.00138	0.0342
2,3,3',4,4',5'-HxCB (PCB-157) Concentration, ng/dscm @ 7% O ₂	C _{157c}	0.0504	0.0387	0.0477	0.0478	0.00109	0.0155	0.00117	0.0289
2,3',4,4',5',5'-HxCB (PCB-167) Concentration, ng/dscm	C ₁₆₇	0.0421	0.0213	0.0399	0.0207	0.00104	0.00760	0.0349	0.0239
2,3',4,4',5',5'-HxCB (PCB-167) Concentration, ng/dscm @ 7% O ₂	C _{167c}	0.0356	0.0180	0.0337	0.0175	8.84E-04	0.00641	0.0296	0.0202
3,3',4,4',5',5'-HxCB (PCB-169) Concentration, ng/dscm	C ₁₆₉	0.0288	0.0302	0.0273	0.0292	0.0302	0.0298	0.0239	0.0285
3,3',4,4',5',5'-HxCB (PCB-169) Concentration, ng/dscm @ 7% O ₂	C _{169c}	0.0243	0.0255	0.0230	0.0247	0.0258	0.0252	0.0202	0.0241
2,2',3',4,4',5'-HpCB (PCB-170) Concentration, ng/dscm	C ₁₇₀	0.00202	0.00845	9.47E-04	0.0179	0.0325	0.00595	0.00167	0.00991
2,2',3',4,4',5'-HpCB (PCB-170) Concentration, ng/dscm @ 7% O ₂	C _{170c}	0.00171	0.00712	7.99E-04	0.0151	0.0277	0.00501	0.00141	0.00841
2,2',3,4,4',5',5'-HpCB (PCB-180) Concentration, ng/dscm	C ₁₈₀	0.00468	0.0381	0.00189	0.0414	0.00366	0.0117	0.00291	0.0149
2,2',3,4,4',5',5'-HpCB (PCB-180) Concentration, ng/dscm @ 7% O ₂	C _{180c}	0.00396	0.0321	0.00159	0.0349	0.00313	0.00991	0.00247	0.0126
2,2',3,4',5',6'-HpCB (PCB-187) Concentration, ng/dscm	C ₁₈₇	0.00332	0.0319	8.96E-04	0.0314	0.00334	0.0110	0.0245	0.0152
2,2',3,4',5',6'-HpCB (PCB-187) Concentration, ng/dscm @ 7% O ₂	C _{187c}	0.00281	0.0269	7.56E-04	0.0265	0.00286	0.00931	0.0207	0.0128
2,3,3',4,4',5',5'-HpCB (PCB-189) Concentration, ng/dscm	C ₁₈₉	0.0344	0.0361	0.0326	0.0349	0.0361	0.0357	0.0285	0.0341
2,3,3',4,4',5',5'-HpCB (PCB-189) Concentration, ng/dscm @ 7% O ₂	C _{189c}	0.0291	0.0304	0.0275	0.0295	0.0309	0.0301	0.0242	0.0288
2,2',3',4,4',5',6'-OxCB (PCB-195) Concentration, ng/dscm	C ₁₉₅	0.0372	0.0390	0.0353	0.0378	0.0391	0.0386	0.0309	0.0368
2,2',3',4,4',5',6'-OxCB (PCB-195) Concentration, ng/dscm @ 7% O ₂	C _{195c}	0.0315	0.0329	0.0298	0.0319	0.0334	0.0325	0.0262	0.0312
2,2',3',4,4',5',6'-NoCB (PCB-206) Concentration, ng/dscm	C ₂₀₆	0.0400	0.0420	0.0379	0.0407	0.0421	0.0415	0.0332	0.0396
2,2',3',4,4',5',6'-NoCB (PCB-206) Concentration, ng/dscm @ 7% O ₂	C _{206c}	0.0338	0.0354	0.0320	0.0343	0.0359	0.0350	0.0281	0.0335
2,2',3',4,4',5',6',6'-DeCB (PCB-209) Concentration, ng/dscm	C ₂₀₉	0.00465	0.0111	0.00196	0.00594	8.16E-04	0.00284	0.0268	0.00773
2,2',3',4,4',5',6',6'-DeCB (PCB-209) Concentration, ng/dscm @ 7% O ₂	C _{209c}	0.00394	0.00940	0.00165	0.00502	6.98E-04	0.00239	0.0227	0.00654
Summation									
Total PCB Concentrations, ng/dscm	C _{PCB}	1.94	8.31	1.75	6.97	1.36	3.03	1.11	3.50
Total PCB Concentrations, ng/dscm @ 7% O ₂	C _{PCBc}	1.64	7.01	1.48	5.88	1.16	2.55	0.94	2.95

Undertlined value denotes that the value was non-detect (ND) and is reported at the MDL. This is considered BDL in accordance with the ICR enclosure.

Location **BASF - Geismar, LA**
Source **No. 3 Boiler EQT0161/UTL15**
Project No. **AST-2024-2573**
Parameter: **PCB**

Trap Set Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/7/24	5/7/24	5/8/24	5/8/24	5/9/24	5/9/24	5/10/24	--
Start Time		8:55	14:25	8:25	13:36	8:15	14:00	8:15	--
Stop Time		13:27	18:56	12:57	18:08	13:07	18:33	12:43	--
Input Data									
Standard Meter Volume, ft ³	(Vmstd)	151.026	143.824	159.153	148.545	143.607	145.528	181.969	153.379
Volumetric Flow Rate, dscfm	(Qs)	27,843	26,135	29,545	27,681	26,710	26,741	34,078	28,391
O2 Concentration, % dry	(O ₂)	4.47	4.41	4.42	4.43	4.63	4.42	4.51	4.47
Emissions Calculations									
2,4'-DiCB (PCB-8) Emission Rate, lb/hr	ER ₈	1.09E-08	5.79E-08	9.36E-09	4.14E-08	5.59E-09	2.00E-08	6.71E-09	2.17E-08
2,2',5'-TrCB (PCB-18) Emission Rate, lb/hr	ER ₁₈	6.95E-09	2.32E-08	7.00E-09	1.85E-08	7.01E-09	6.93E-09	7.06E-09	1.10E-08
2,4,4'-TrCB (PCB-28) Emission Rate, lb/hr	ER ₂₈	1.30E-08	5.48E-08	1.11E-08	4.02E-08	7.04E-09	2.09E-08	7.80E-09	2.21E-08
2,2',3,5'-TeCB (PCB-44) Emission Rate, lb/hr	ER ₄₄	9.75E-08	1.51E-07	9.82E-08	1.07E-07	6.15E-08	9.16E-08	6.37E-08	9.58E-08
2,2',5,5'-TeCB (PCB-52) Emission Rate, lb/hr	ER ₅₂	8.88E-09	5.26E-08	8.10E-09	4.19E-08	5.07E-09	1.82E-08	5.82E-09	2.01E-08
2,3',4,4'-TeCB (PCB-66) Emission Rate, lb/hr	ER ₆₆	3.80E-09	1.42E-08	2.77E-09	9.32E-09	2.30E-09	4.74E-09	2.11E-09	5.61E-09
3,3',4,4'-TeCB (PCB-77) Emission Rate, lb/hr	ER ₇₇	2.93E-09	3.03E-09	1.60E-09	1.41E-09	3.10E-09	3.06E-09	7.66E-10	2.27E-09
3,4,4',5'-TeCB (PCB-81) Emission Rate, lb/hr	ER ₈₁	2.34E-09	2.31E-09	2.36E-09	2.37E-09	2.36E-09	2.33E-09	2.38E-09	2.35E-09
2,2',4,5,5'-PeCB (PCB-101) Emission Rate, lb/hr	ER ₁₀₁	3.63E-09	8.29E-08	2.80E-09	6.78E-08	1.62E-09	2.11E-08	2.27E-09	2.60E-08
2,3,3',4,4'-PeCB (PCB-105) Emission Rate, lb/hr	ER ₁₀₅	1.15E-09	3.51E-08	<u>2.50E-09</u>	3.82E-08	<u>2.51E-09</u>	1.03E-08	<u>2.53E-09</u>	1.32E-08
2,3,4,4',5'-PeCB (PCB-114) Emission Rate, lb/hr	ER ₁₁₄	5.46E-10	1.95E-09	4.05E-09	2.74E-09	4.06E-09	8.39E-10	4.09E-09	2.61E-09
2,3',4,4',5'-PeCB (PCB-118) Emission Rate, lb/hr	ER ₁₁₈	1.28E-09	8.97E-08	1.47E-09	9.74E-08	7.95E-10	2.48E-08	9.76E-10	3.09E-08
2',3,4,4',5'-PeCB (PCB-123) Emission Rate, lb/hr	ER ₁₂₃	4.17E-09	1.64E-09	<u>4.20E-09</u>	1.74E-09	<u>4.21E-09</u>	<u>4.16E-09</u>	<u>4.24E-09</u>	3.48E-09
3,3',4,4',5'-PeCB (PCB-126) Emission Rate, lb/hr	ER ₁₂₆	3.00E-09	2.96E-09	3.02E-09	3.03E-09	3.03E-09	2.99E-09	3.05E-09	3.01E-09
2,2',3,3',4,4'-HxCB (PCB-128) Emission Rate, lb/hr	ER ₁₂₈	4.98E-09	1.53E-08	1.54E-10	1.41E-08	5.02E-09	2.89E-09	1.62E-10	6.10E-09
2,2',3,4,4',5'-HxCB (PCB-138) Emission Rate, lb/hr	ER ₁₃₈	1.91E-09	1.12E-07	1.30E-09	1.16E-07	7.78E-10	2.87E-08	6.64E-10	3.74E-08
2,2',4,4',5,5'-HxCB (PCB-153) Emission Rate, lb/hr	ER ₁₅₃	2.15E-09	7.88E-08	1.77E-09	8.01E-08	8.07E-10	1.76E-08	8.72E-10	2.60E-08
2,3,3',4,4',5'-HxCB (PCB-156) Emission Rate, lb/hr	ER ₁₅₆	6.22E-09	4.50E-09	6.26E-09	5.87E-09	1.28E-10	1.84E-09	1.76E-10	3.57E-09
2,3,3',4,4',5'-HxCB (PCB-157) Emission Rate, lb/hr	ER ₁₅₇	6.22E-09	4.50E-09	6.26E-09	5.87E-09	1.28E-10	1.84E-09	1.76E-10	3.57E-09
2,3',4,4',5,5'-HxCB (PCB-167) Emission Rate, lb/hr	ER ₁₆₇	4.39E-09	2.09E-09	<u>4.42E-09</u>	2.15E-09	1.04E-10	7.61E-10	4.46E-09	2.62E-09
3,3',4,4',5,5'-HxCB (PCB-169) Emission Rate, lb/hr	ER ₁₆₉	3.00E-09	2.96E-09	3.02E-09	3.03E-09	3.03E-09	2.99E-09	3.05E-09	3.01E-09
2,2',3,3',4,4',5'-HpCB (PCB-170) Emission Rate, lb/hr	ER ₁₇₀	2.11E-10	8.27E-10	1.05E-10	1.85E-09	3.25E-09	5.96E-10	2.13E-10	1.01E-09
2,2',3,4,4',5,5'-HpCB (PCB-180) Emission Rate, lb/hr	ER ₁₈₀	4.88E-10	3.73E-09	2.09E-10	4.29E-09	3.67E-10	1.18E-09	3.72E-10	1.52E-09
2,2',3,4,5,5',6'-HpCB (PCB-187) Emission Rate, lb/hr	ER ₁₈₇	3.46E-10	3.12E-09	9.92E-11	3.25E-09	3.35E-10	1.11E-09	3.12E-09	1.63E-09
2,3,3',4,4',5,5'-HpCB (PCB-189) Emission Rate, lb/hr	ER ₁₈₉	3.58E-09	<u>3.53E-09</u>	<u>3.61E-09</u>	<u>3.62E-09</u>	<u>3.62E-09</u>	<u>3.57E-09</u>	<u>3.64E-09</u>	3.60E-09
2,2',3,3',4,4',5,6'-OxCB (PCB-195) Emission Rate, lb/hr	ER ₁₉₅	3.88E-09	3.82E-09	3.90E-09	3.92E-09	3.91E-09	3.86E-09	3.94E-09	3.89E-09
2,2',3,3',4,4',5,5',6'-NoCB (PCB-206) Emission Rate, lb/hr	ER ₂₀₆	4.17E-09	4.11E-09	4.20E-09	4.22E-09	4.21E-09	4.16E-09	4.24E-09	4.19E-09
2,2',3,3',4,4',5,5',6'-DeCB (PCB-209) Emission Rate, lb/hr	ER ₂₀₉	4.85E-10	1.09E-09	2.17E-10	6.16E-10	8.17E-11	2.84E-10	3.42E-09	8.85E-10
Summation									
Total PAH Emission Rate, lb/hr	ER _{PAH}	2.02E-07	8.14E-07	1.94E-07	7.23E-07	1.36E-07	3.03E-07	1.42E-07	3.59E-07

Undeclared value denotes that the value was non-detect (ND) and is reported at the MDL. This is considered BDL in accordance with the ICR enclosure.

Location BASF - Geismar, LA

Source No. 3 Boiler EQ10161/UTLI5

Project No. AST-2024-2573

Parameter: PCB

	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7
M ₆	0.445	2.41	0.381	1.68	0.227	0.821	0.271
2,4'-DiCB (PCB-8) Mass, ng	ND C	S	ND C	S	J S	S	J S
M ₁₈	0.285	0.966	0.285	0.752	0.285	0.285	0.285
2,2',5'-TrCB (PCB-18) Mass, ng	J C20 B	S	ND C	S	ND C	ND C	ND C
M ₂₈	0.535	2.28	0.451	1.63	0.286	0.861	0.315
2,4,4'-TrCB (PCB-28) Mass, ng	C	C20 B	J C20 B	C20 B	J q C20 B	B C20	J B C20 q
M ₄₄	4.00	6.28	4.00	4.35	2.50	3.77	2.57
2,2',3,5'-TeCB (PCB-44) Mass, ng		C	C		C	C	C
M ₅₂	0.364	2.19	0.330	1.70	0.206	0.749	0.235
2,2',5,5'-TeCB (PCB-52) Mass, ng	J q		J	q	J	J q	J
M ₆₆	0.156	0.592	0.113	0.378	0.0934	0.378	0.0852
2,3',4,4'-TeCB (PCB-66) Mass, ng	J	J	J	J q	J	J	J
M ₇₇	0.120	0.126	0.0650	0.0573	0.126	0.126	0.0309
3,3',4,4'-TeCB (PCB-77) Mass, ng	ND	ND	ND	ND	ND	ND	J q
M ₈₁	0.0960	0.0960	0.0960	0.0960	0.0960	0.0960	0.0960
3,4,4',5'-TeCB (PCB-81) Mass, ng	J C90	C90	J C90	C90	J q C90	J C90	ND
M ₁₀₁	0.149	3.45	0.114	2.75	0.0660	0.869	0.0917
2,2',4,5,5'-PeCB (PCB-101) Mass, ng	J	1.46	0.102	1.55	0.102	0.422	0.102
M ₁₀₅	0.0473	0.0811	0.165	0.111	0.165	0.0345	0.165
2,3',3',4,4'-PeCB (PCB-105) Mass, ng	J	J q	ND	J	ND	J	ND
M ₁₁₄	0.0224	0.0811	0.165	0.111	0.165	0.0345	0.165
2,3,4,4',5'-PeCB (PCB-114) Mass, ng	J	J	ND	J	ND	J	ND
M ₁₁₈	0.0526	3.73	0.0599	0.0705	0.0323	1.02	0.0394
2,3',4,4',5'-PeCB (PCB-118) Mass, ng	J q B	B	J B	J	J B	B	J B
M ₁₂₃	0.171	0.0683	0.171	0.0705	0.171	0.171	0.171
2',3,4,4',5'-PeCB (PCB-123) Mass, ng	ND	J q	ND	J	ND	ND	ND
M ₁₂₆	0.123	0.123	0.123	0.123	0.123	0.123	0.123
3,3',4,4',5'-PeCB (PCB-126) Mass, ng	ND	ND	ND	ND	ND	ND	ND
M ₁₂₈	0.204	0.637	0.00628	0.574	0.204	0.119	0.00655
2,2',3,3',4,4'-HxCB (PCB-128) Mass, ng	ND C	C	J q C	J q C	ND C	J C q	J C q
M ₁₃₈	0.0783	4.66	0.0530	4.72	0.0316	1.18	0.0268
2,2',3,4,4',5'-HxCB (PCB-138) Mass, ng	J q C129	C129	J q C129	C129	J q C129	J C129	J C129 q
M ₁₅₃	0.0883	3.28	0.0720	3.25	0.0328	0.723	0.0352
2,2',4,4',5,5'-HxCB (PCB-153) Mass, ng	J C B	C B	J C B	C B	J C B	C B	J C B q
M ₁₅₆	0.255	0.187	0.255	0.238	0.00520	0.0755	0.00712
2,3,3',4,4',5'-HxCB (PCB-156) Mass, ng	ND C	J C	ND C	J C	J q C	J C	J C
M ₁₅₇	0.255	0.187	0.255	0.238	0.00520	0.0755	0.00712
2,3,3',4,4',5'-HxCB (PCB-157) Mass, ng	ND C156	J C156	ND C156	J C156	J q C156	J C156	J C156
M ₁₆₇	0.180	0.0868	0.180	0.0871	0.00421	0.0313	0.180
2,3',4,4',5,5'-HxCB (PCB-167) Mass, ng	ND	J	ND	J q	J q	J	ND
M ₁₆₉	0.123	0.123	0.123	0.123	0.123	0.123	0.123
3,3',4,4',5,5'-HxCB (PCB-169) Mass, ng	ND	ND	ND	ND	ND	ND	ND
M ₁₇₀	0.00865	0.0344	0.00427	0.0752	0.132	0.0245	0.00859
2,2',3,3',4,4',5'-HxCB (PCB-170) Mass, ng	J q	J q	J q	J q	ND	J	J q
M ₁₈₀	0.0200	0.155	0.00852	0.174	0.0149	0.0484	0.0150
2,2',3,4,4',5,5'-HxCB (PCB-180) Mass, ng	J C	J C	J q C	J C	J q C	J C	J C q
M ₁₈₇	0.0142	0.130	0.00404	0.132	0.0136	0.0455	0.126
2,2',3,4',5,5',6'-HxCB (PCB-187) Mass, ng	J q	J q	J q	J q	J q	J	ND
M ₁₈₉	0.147	0.147	0.147	0.147	0.147	0.147	0.147
2,3,3',4,4',5,5'-HxCB (PCB-189) Mass, ng	ND	ND	ND	ND	ND	ND	ND
M ₁₉₅	0.159	0.159	0.159	0.159	0.159	0.159	0.159
2,2',3,3',4,4',5,6'-OxCB (PCB-195) Mass, ng	ND	ND	ND	ND	ND	ND	ND
M ₂₀₆	0.171	0.171	0.171	0.171	0.171	0.171	0.171
2,2',3,3',4,4',5,5',6'-NoCB (PCB-206) Mass, ng	ND	ND	ND	ND	ND	ND	ND
M ₂₀₉	0.0199	0.0454	0.00884	0.0250	0.00332	0.0117	0.138
2,2',3,3',4,4',5,5',6',6'-DeCB (PCB-209) Mass, ng	J q B	J q B	J q B	J q B	J B	J B q	ND

See analytical report for flag descriptions.

Underlined value denotes that the value was non-detect (ND) and is reported at the MDL. This is considered BDL in accordance with the ICR enclosure.

Appendix C

Emission Calculations

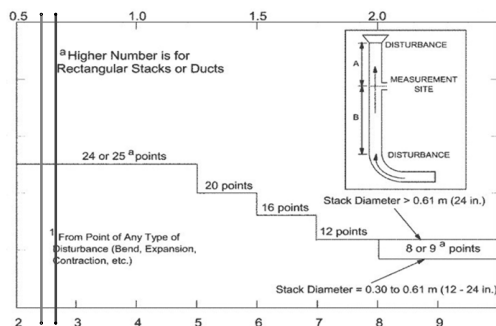
Location **BASF - Geismar, LA**
Source **No. 3 Boiler EQT0161/UTL15**
Project No. **AST-2024-2573**
Parameters **PAH, PCB**

Run Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/7/24	5/7/24	5/8/24	5/8/24	5/9/24	5/9/24	5/10/24	--
Start Time		8:55	14:25	8:25	13:36	8:15	14:00	8:15	--
Stop Time		13:27	18:56	12:57	18:08	13:07	18:33	12:43	--
Run Time, min	(θ)	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
INPUT DATA									
Barometric Pressure, in. Hg	(Pb)	29.81	29.79	29.77	29.74	29.79	29.78	29.82	29.79
Meter Correction Factor	(Y)	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984
Orifice Calibration Value	($\Delta H @$)	1.949	1.949	1.949	1.949	1.949	1.949	1.949	1.949
Meter Volume, ft ³	(Vm)	155.673	149.683	163.061	154.979	147.346	152.177	184.949	158.267
Meter Temperature, °F	(Tm)	75.3	80.0	71.5	80.5	72.3	82.4	68.7	75.8
Meter Temperature, °R	(Tm)	535.0	539.6	531.2	540.2	532.0	542.1	528.4	535.5
Meter Orifice Pressure, in. WC	(ΔH)	1.320	1.203	1.439	1.301	1.206	1.245	1.885	1.371
Volume H ₂ O Collected, mL	(Vlc)	850.5	847.7	832.9	777.5	789.0	819.8	906.0	831.9
Nozzle Diameter, in	(Dn)	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351
Area of Nozzle, ft ²	(An)	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
ISOKINETIC DATA									
Standard Meter Volume, ft ³	(Vmstd)	151.026	143.824	159.153	148.545	143.607	145.528	181.969	153.379
Standard Water Volume, ft ³	(Vwstd)	40.110	39.978	39.280	36.667	37.209	38.662	42.727	39.233
Moisture Fraction Measured	(BWSmsd)	0.210	0.218	0.198	0.198	0.206	0.210	0.190	0.204
Moisture Fraction @ Saturation	(BWSsat)	15.301	19.944	16.132	22.373	14.174	20.840	22.946	18.816
Moisture Fraction	(BWS)	0.210	0.218	0.198	0.198	0.206	0.210	0.190	0.204
Meter Pressure, in Hg	(Pm)	29.91	29.88	29.88	29.84	29.88	29.87	29.96	29.89
Volume at Nozzle, ft ³	(Vn)	311.384	308.134	325.458	314.878	292.426	310.351	382.157	320.68
Isokinetic Sampling Rate, (%)	(I)	101.1	102.6	100.4	100.1	100.2	101.5	99.6	100.8
DGM Calibration Check Value, (+/- 5%)	(Y _{gm})	1.3	1.8	1.8	1.2	0.4	1.2	1.3	1.3

Location BASF - Geismar, LA
Source No. 3 Boiler EQT0161/UTL15
Project No. AST-2024-2573
Date: 05/06/24

Stack Parameters

Duct Orientation: Vertical
Duct Design: Rectangular
Distance from Far Wall to Outside of Port: 51.13 in
Nipple Length: 3.13 in
Depth of Duct: 48.00 in
Width of Duct: 94.00 in
Cross Sectional Area of Duct: 31.33 ft²
Equivalent Diameter: 63.55 in
No. of Test Ports: 5
Distance A: 3.5 ft
Distance A Duct Diameters: 0.7 (must be ≥ 0.5)
Distance B: 12.8 ft
Distance B Duct Diameters: 2.4 (must be ≥ 2)
Minimum Number of Traverse Points: 25
Actual Number of Traverse Points: 25
Number of Readings per Point: 2
Measurer (Initial and Date): CFS 5/6/24
Reviewer (Initial and Date): JSL 5/6/24

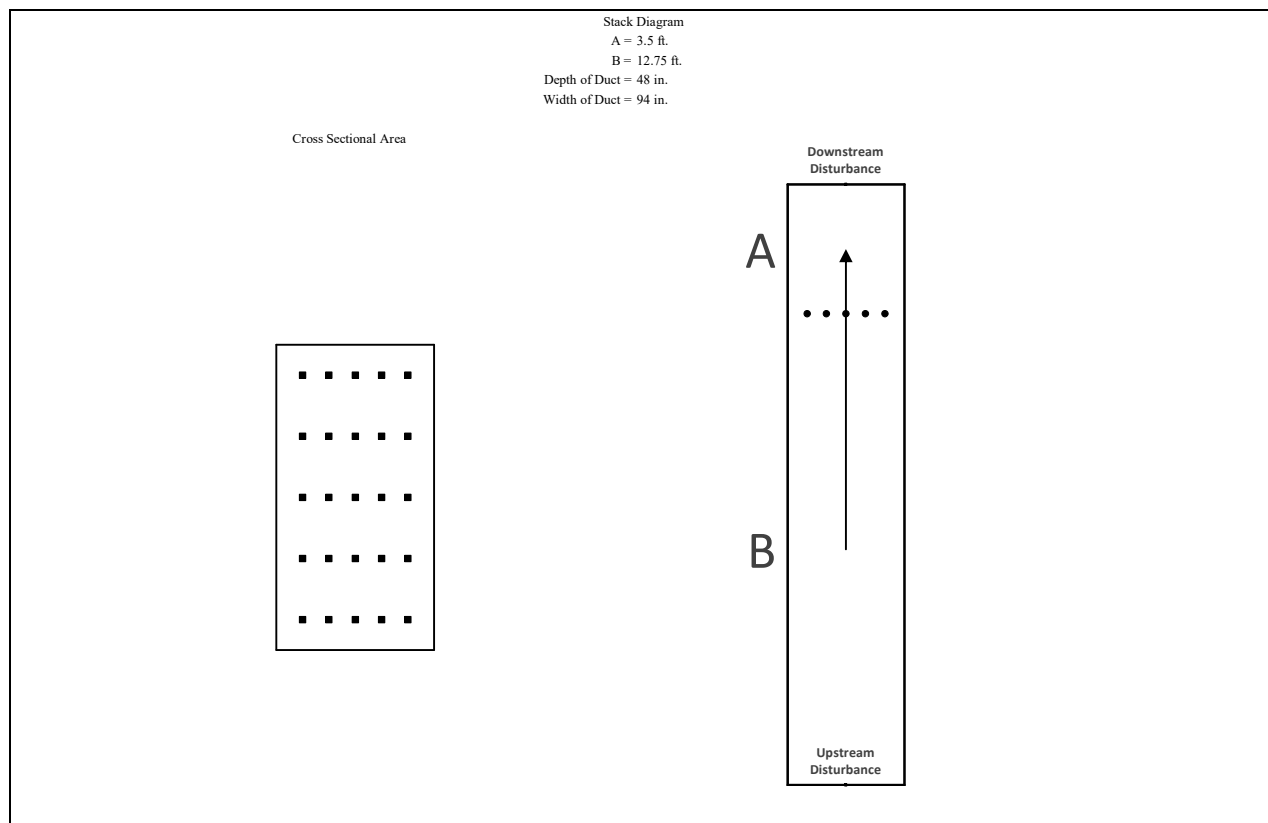


RECTANGULAR DUCT

LOCATION OF TRAVERSE POINTS											
Number of traverse points on a diameter											
	2	3	4	5	6	7	8	9	10	11	12
1	25.0	16.7	12.5	10.0	8.3	7.1	6.3	5.6	5.0	4.5	4.2
2	75.0	50.0	37.5	30.0	25.0	21.4	18.8	16.7	15.0	13.6	12.5
3	--	83.3	62.5	50.0	41.7	35.7	31.3	27.8	25.0	31.8	20.8
4	--	--	87.5	70.0	58.3	50.0	43.8	38.9	35.0	22.7	29.2
5	--	--	--	90.0	75.0	64.3	56.3	50.0	45.0	40.9	37.5
6	--	--	--	--	91.7	78.6	68.8	61.1	55.0	50.0	45.8
7	--	--	--	--	--	92.9	81.3	72.2	65.0	59.1	54.2
8	--	--	--	--	--	--	93.8	83.3	75.0	68.2	62.5
9	--	--	--	--	--	--	--	94.4	85.0	77.3	70.8
10	--	--	--	--	--	--	--	--	95.0	86.4	79.2
11	--	--	--	--	--	--	--	--	--	95.5	87.5
12	--	--	--	--	--	--	--	--	--	--	95.8

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

Traverse Point	% of Diameter	Distance from inside wall	Distance from outside of port
1	10.0	4.80	7 15/16
2	30.0	14.40	17 1/2
3	50.0	24.00	27 1/8
4	70.0	33.60	36 3/4
5	90.0	43.20	46 5/16
6	--	--	--
7	--	--	--
8	--	--	--
9	--	--	--
10	--	--	--
11	--	--	--
12	--	--	--



Cyclonic Flow Check

Location BASF - Geismar, LA
 Source No. 3 Boiler EQT0161/UTL15
 Project No. AST-2024-2573
 Date 05/06/24

Sample Point	Angle ($\Delta P=0$)
A1	10
2	10
3	5
4	5
5	5
B1	5
2	0
3	0
4	5
5	0
C1	0
2	0
3	5
4	5
5	0
D1	5
2	5
3	10
4	5
5	5
E1	5
2	10
3	15
4	10
5	10
Average	5

Location **BASF - Geismar, LA**
Source **No. 3 Boiler EQT0161/UTL15**
Project No. **AST-2024-2573**
Parameters **PAH, PCB**

Run Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/7/24	5/7/24	5/8/24	5/8/24	5/9/24	5/9/24	5/10/24	--
Start Time		8:55	14:25	8:25	13:36	8:15	14:00	8:15	--
Stop Time		13:27	18:56	12:57	18:08	13:07	18:33	12:43	--
Run Time, min		250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
VELOCITY HEAD, in. WC									
Point 1		0.18	0.20	0.13	0.17	0.14	0.14	0.25	0.17
Point 2		0.18	0.18	0.18	0.17	0.15	0.18	0.28	0.19
Point 3		0.18	0.20	0.24	0.22	0.15	0.24	0.32	0.22
Point 4		0.22	0.25	0.24	0.22	0.20	0.24	0.34	0.24
Point 5		0.20	0.25	0.20	0.21	0.15	0.20	0.27	0.21
Point 6		0.20	0.20	0.20	0.21	0.15	0.20	0.26	0.20
Point 7		0.20	0.18	0.22	0.20	0.16	0.15	0.28	0.20
Point 8		0.22	0.18	0.22	0.18	0.16	0.15	0.32	0.20
Point 9		0.25	0.20	0.22	0.18	0.17	0.17	0.28	0.21
Point 10		0.25	0.20	0.23	0.19	0.18	0.17	0.25	0.21
Point 11		0.10	0.10	0.11	0.10	0.10	0.10	0.12	0.10
Point 12		0.10	0.10	0.10	0.10	0.10	0.10	0.15	0.11
Point 13		0.14	0.10	0.15	0.14	0.13	0.13	0.20	0.14
Point 14		0.14	0.12	0.17	0.14	0.13	0.14	0.20	0.15
Point 15		0.15	0.12	0.16	0.15	0.12	0.14	0.20	0.15
Point 16		0.17	0.12	0.15	0.15	0.12	0.15	0.21	0.15
Point 17		0.20	0.10	0.19	0.15	0.14	0.14	0.25	0.17
Point 18		0.11	0.10	0.19	0.15	0.14	0.14	0.25	0.15
Point 19		0.10	0.10	0.18	0.15	0.15	0.15	0.24	0.15
Point 20		0.10	0.10	0.18	0.15	0.15	0.14	0.24	0.15
Point 21		0.10	0.09	0.11	0.10	0.10	0.10	0.17	0.11
Point 22		0.10	0.10	0.11	0.10	0.10	0.10	0.17	0.11
Point 23		0.17	0.16	0.20	0.17	0.15	0.14	0.26	0.18
Point 24		0.17	0.16	0.20	0.17	0.15	0.15	0.24	0.18
Point 25		0.17	0.15	0.18	0.19	0.17	0.21	0.23	0.19
Point 26		0.17	0.15	0.20	0.19	0.17	0.21	0.24	0.19
Point 27		0.17	0.17	0.22	0.20	0.18	0.20	0.30	0.21
Point 28		0.17	0.18	0.23	0.20	0.18	0.19	0.30	0.21
Point 29		0.20	0.20	0.23	0.21	0.20	0.20	0.31	0.22
Point 30		0.20	0.20	0.24	0.21	0.20	0.18	0.31	0.22
Point 31		0.10	0.11	0.12	0.10	0.10	0.10	0.17	0.11
Point 32		0.10	0.11	0.12	0.10	0.10	0.10	0.18	0.12
Point 33		0.15	0.15	0.16	0.14	0.13	0.14	0.23	0.16
Point 34		0.17	0.15	0.17	0.15	0.15	0.15	0.24	0.17
Point 35		0.23	0.19	0.23	0.22	0.20	0.19	0.34	0.23
Point 36		0.23	0.19	0.25	0.22	0.20	0.22	0.35	0.24
Point 37		0.22	0.20	0.25	0.23	0.21	0.22	0.37	0.24
Point 38		0.21	0.20	0.25	0.23	0.21	0.20	0.37	0.24
Point 39		0.24	0.21	0.26	0.23	0.22	0.20	0.37	0.25
Point 40		0.24	0.21	0.26	0.22	0.22	0.20	0.36	0.24
Point 41		0.20	0.18	0.22	0.17	0.19	0.18	0.32	0.21
Point 42		0.20	0.18	0.22	0.20	0.19	0.18	0.33	0.21
Point 43		0.27	0.24	0.30	0.27	0.24	0.22	0.45	0.28
Point 44		0.27	0.25	0.28	0.28	0.24	0.24	0.45	0.29
Point 45		0.31	0.31	0.35	0.35	0.25	0.25	0.50	0.33
Point 46		0.32	0.31	0.36	0.34	0.26	0.32	0.46	0.34
Point 47		0.33	0.30	0.35	0.35	0.29	0.35	0.44	0.34
Point 48		0.33	0.30	0.36	0.35	0.29	0.35	0.42	0.34
Point 49		0.34	0.31	0.37	0.34	0.33	0.34	0.43	0.35
Point 50		0.34	0.31	0.37	0.32	0.33	0.33	0.45	0.35
CALCULATED DATA									
Square Root of ΔP , (in. WC) ^{1/2}	(ΔP)	0.436	0.419	0.459	0.438	0.415	0.426	0.535	0.447
Pitot Tube Coefficient	(Cp)	0.799	0.799	0.799	0.799	0.799	0.799	0.799	0.799
Barometric Pressure, in. Hg	(Pb)	29.81	29.79	29.77	29.74	29.79	29.78	29.82	29.79
Static Pressure, in. WC	(Pg)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Stack Pressure, in. Hg	(Ps)	29.82	29.80	29.78	29.75	29.80	29.79	29.83	29.79
Stack Cross-sectional Area, ft ²	(As)	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33
Temperature, °F	(Ts)	397.4	421.7	402.0	432.6	390.5	425.8	435.3	415.0
Temperature, °R	(Ts)	857.0	881.4	861.7	892.3	850.2	885.5	895.0	874.7
Moisture Fraction Measured	(BWSmsd)	0.210	0.218	0.198	0.198	0.206	0.210	0.190	0.204
Moisture Fraction @ Saturation	(BWSsat)	15.301	19.944	16.132	22.373	14.174	20.840	22.946	18.816
Moisture Fraction	(BWS)	0.210	0.218	0.198	0.198	0.206	0.210	0.190	0.204
O ₂ Concentration, %	(O ₂)	4.47	4.41	4.42	4.43	4.63	4.42	4.51	4.47
CO ₂ Concentration, %	(CO ₂)	10.37	10.89	10.88	10.91	10.44	10.23	10.81	10.65
Molecular Weight, lb/lb-mole (dry)	(Md)	29.84	29.92	29.92	29.92	29.86	29.81	29.91	29.88
Molecular Weight, lb/lb-mole (wet)	(Ms)	27.36	27.33	27.56	27.57	27.42	27.34	27.65	27.46
Velocity, ft/sec	(Vs)	30.5	29.8	32.1	31.2	28.9	30.3	38.1	31.6
VOLUMETRIC FLOW RATE									
At Stack Conditions, acfm	(Qa)	57,428	56,016	60,441	58,699	54,411	57,051	71,594	59,377
At Standard Conditions, scfm	(Qsw)	35,237	33,400	36,837	34,514	33,631	33,846	42,080	35,649
At Standard Conditions, dscfm	(Qs)	27,843	26,135	29,545	27,681	26,710	26,741	34,078	28,391

Location **BASF - Geismar, LA**

Source **No. 3 Boiler EQT0161/UTL15**

Project No. **AST-2024-2573**

Parameter **PAH, PCB**

Analysis **Gravimetric**

Run 1	Date: 5/7/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	310.3	492.4	698.3	781.3	677.8	925.4	3885.5
Final Mass, g	326.9	1200.6	787.9	783.2	681.9	955.5	4736.0
Gain	16.6	708.2	89.6	1.9	4.1	30.1	850.5
Run 2	Date: 5/7/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	335.5	527.0	729.7	763.4	633.8	873.4	3862.8
Final Mass, g	349.0	1178.7	882.5	763.7	635.4	901.2	4710.5
Gain	13.5	651.7	152.8	0.3	1.6	27.8	847.7
Run 3	Date: 5/8/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	332.0	492.8	736.1	760.2	702.0	945.3	3968.4
Final Mass, g	347.6	1067.1	940.0	758.4	703.7	984.5	4801.3
Gain	15.6	574.3	203.9	-1.8	1.7	39.2	832.9
Run 4	Date: 5/8/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	318.6	528.7	697.3	730.0	636.1	941.3	3852.0
Final Mass, g	333.3	1234.0	695.6	756.1	637.6	972.9	4629.5
Gain	14.7	705.3	-1.7	26.1	1.5	31.6	777.5
Run 5	Date: 5/9/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	314.3	493.2	747.9	808.1	644.1	866.1	3873.7
Final Mass, g	330.1	1153.5	831.2	807.8	645.4	894.7	4662.7
Gain	15.8	660.3	83.3	-0.3	1.3	28.6	789.0
Run 6	Date: 5/9/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	324.1	526.7	704.9	718.2	635.1	934.2	3843.2
Final Mass, g	335.8	1196.9	808.5	717.8	636.6	967.4	4663.0
Gain	11.7	670.2	103.6	-0.4	1.5	33.2	819.8
Run 7	Date: 5/10/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	374.4	492.3	759.2	792.5	644.3	946.1	4008.8
Final Mass, g	338.3	1175.8	973.7	791.0	646.7	989.3	4914.8
Gain	-36.1	683.5	214.5	-1.5	2.4	43.2	906.0

Isokinetic Field Data

Location: BASF - Geismar, LA				Start Time: 8:55		Source: No. 3 Boiler EQT0161/UTL15			
Date: 5/7/24		Run 1		End Time: 13:27		Project No.: AST-2024-2573		Parameter: PAH, PCB	

STACK DATA (EST)		EQUIPMENT		STACK DATA (EST)		FILTER NO.		STACK DATA (FINAL)		MOIST. DATA	
Moisture:	21.0 % est.	Meter Box ID:	BTR-2	Est. Tm:	72 °F			Pb:	29.81 in. Hg	Vlc (ml)	
Barometric:	29.87 in. Hg	Y:	0.984	Est. Ts:	413 °F			Pg:	0.10 in. WC	850.5	
Static Press:	0.10 in. WC	AH @ (in.WC):	1.949	Est. AP:	0.23 in. WC			O ₂ :	4.47 %	K-FACTOR	
Stack Press:	29.88 in. Hg	Probe ID:	17-3-2	Est. Dn:	0.349 in.			CO ₂ :	10.37 %	6.600	
CO ₂ :	9.7 %	Liner Material:	glass	Target Rate:	0.65 scfm			Check Pt. Initial Final Corr.			
O ₂ :	4.6 %	Pitot ID:	17-3-2	LEAK CHECK:	Pre Mid 1 Mid 2 Mid 3 Post			Mid 1 (cf)			--
N ₂ /CO:	85.7 %	Pitot Cp/Type:	0.799 S-type	Leak Rate (cfm):	0.000 -- -- -- 0.000			Mid 2 (cf)			--
Md:	29.74 lb/lb-mole	Nozzle ID:	24-2573-1 glass	Vacuum (in Hg):	15 -- -- -- 15			Mid 3 (cf)			--
Ms:	27.27 lb/lb-mole	Nozzle Dn (in.):	0.351	Pitot Tube:	Pass -- -- -- Pass			Mid-Point Leak Check Vol (cf):			--

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft ³)	Pitot Tube AP (in WC)	Gas Temperatures (°F)		Orifice Press. AH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
A1	0.00	5.00	580.779	0.18	70	366	1.25	1.30	4	250	255	61	47	105.0	29.17
1	5.00	10.00	583.950	0.18	70	333	1.30	1.30	4	256	255	62	51	104.8	28.58
2	10.00	15.00	587.180	0.18	70	339	1.30	1.30	4	254	256	62	51	106.2	28.69
2	15.00	20.00	590.440	0.22	71	414	1.45	1.50	4	257	255	64	53	93.2	33.18
3	20.00	25.00	593.470	0.20	71	411	1.32	1.30	4	256	254	66	55	95.0	31.58
3	25.00	30.00	596.420	0.20	71	411	1.32	1.30	4	259	255	66	56	107.2	31.58
4	30.00	35.00	599.750	0.20	72	410	1.33	1.30	4	253	257	61	48	103.4	31.56
4	35.00	40.00	602.970	0.22	72	405	1.47	1.50	5	257	255	57	44	105.1	33.00
5	40.00	45.00	606.410	0.25	72	407	1.66	1.70	5	258	255	56	44	95.9	35.22
5	45.00	50.00	609.750	0.25	72	408	1.66	1.70	5	261	256	55	44	104.1	35.24
B1	50.00	55.00	613.376	0.10	73	331	0.73	0.73	4	254	254	59	47	98.2	21.28
1	55.00	60.00	615.650	0.10	73	329	0.73	0.74	4	252	254	59	48	99.2	21.25
2	60.00	65.00	617.950	0.14	73	346	1.01	1.00	4	251	254	60	50	90.7	25.41
2	65.00	70.00	620.410	0.14	73	387	0.96	0.96	4	257	254	60	52	98.4	26.05
3	70.00	75.00	623.015	0.15	74	392	1.02	1.00	4	255	255	61	54	101.0	27.05
3	75.00	80.00	625.780	0.17	74	421	1.12	1.10	4	254	255	63	56	102.3	29.28
4	80.00	85.00	628.710	0.20	74	433	1.30	1.30	4	255	256	64	56	98.9	31.97
4	85.00	90.00	631.760	0.11	75	428	0.72	0.72	4	257	255	66	57	102.5	23.65
5	90.00	95.00	634.120	0.10	75	421	0.66	0.66	4	258	256	66	59	108.5	22.46
5	95.00	100.00	636.510	0.10	75	417	0.66	0.66	4	253	256	65	55	97.4	22.41
C1	100.00	105.00	638.662	0.10	75	340	0.73	0.73	4	257	254	65	43	103.3	21.40
1	105.00	110.00	641.050	0.10	75	333	0.73	0.73	4	254	255	60	46	97.3	21.31
2	110.00	115.00	643.310	0.17	75	357	1.21	1.20	4	257	255	60	47	98.7	28.20
2	115.00	120.00	646.250	0.17	76	411	1.14	1.10	4	258	253	61	51	102.4	29.11
3	120.00	125.00	649.210	0.17	76	414	1.13	1.10	4	257	253	63	55	102.9	29.16
3	125.00	130.00	652.180	0.17	76	419	1.13	1.10	4	261	254	65	53	101.8	29.25
4	130.00	135.00	655.110	0.17	76	415	1.13	1.10	4	255	253	66	56	104.0	29.18
4	135.00	140.00	658.110	0.17	76	414	1.13	1.10	4	258	257	66	55	100.8	29.16
5	140.00	145.00	661.020	0.20	76	415	1.33	1.30	4	260	254	62	50	100.7	31.65
5	145.00	150.00	664.170	0.20	76	416	1.33	1.30	5	257	257	63	50	102.1	31.67
D1	150.00	155.00	667.363	0.10	77	341	0.73	0.73	4	244	256	64	46	101.6	21.41
1	155.00	160.00	669.720	0.10	77	340	0.73	0.73	4	252	254	61	46	97.4	21.40
2	160.00	165.00	671.980	0.15	77	353	1.08	1.10	5	249	257	60	36	102.2	26.42
2	165.00	170.00	674.860	0.17	77	422	1.12	1.10	5	258	255	58	39	103.2	29.30
3	170.00	175.00	677.830	0.23	77	429	1.51	1.50	6	259	258	59	42	101.4	34.21
3	175.00	180.00	681.210	0.23	77	437	1.49	1.50	6	262	255	60	46	100.1	34.37
4	180.00	185.00	684.530	0.22	77	433	1.43	1.40	6	259	256	61	49	107.3	33.53
4	185.00	190.00	688.020	0.21	77	428	1.38	1.40	6	258	257	62	50	104.5	32.67
5	190.00	195.00	691.350	0.24	78	430	1.57	1.60	6	258	257	63	51	106.5	34.97
5	195.00	200.00	694.980	0.24	78	432	1.57	1.60	6	256	255	64	51	99.9	35.01
E1	200.00	205.00	698.382	0.20	78	326	1.48	1.50	6	254	253	67	53	96.6	30.00
1	205.00	210.00	701.580	0.20	78	360	1.42	1.40	6	253	255	63	48	103.3	30.64
2	210.00	215.00	704.930	0.27	78	380	1.87	1.90	8	253	254	61	48	102.2	36.03
2	215.00	220.00	708.730	0.27	78	431	1.77	1.80	8	252	255	62	53	108.6	37.11
3	220.00	225.00	712.650	0.31	79	433	2.03	2.00	8	256	256	62	52	97.4	39.81
3	225.00	230.00	716.420	0.32	79	434	2.09	2.10	8	254	254	63	55	99.0	40.47
4	230.00	235.00	720.310	0.33	79	428	2.17	2.20	8	262	255	62	47	102.7	40.96
4	235.00	240.00	724.420	0.33	79	428	2.17	2.20	8	270	254	60	50	93.2	40.96
5	240.00	245.00	728.150	0.34	79	430	2.23	2.20	8	267	255	61	53	103.7	41.62
5	245.00	250.00	732.359	0.34	79	430	2.23	2.20	8	267	254	63	53	100.9	41.62
Final DGM:			736.452												

RESULTS	Run Time	Vm	AP	Tm	Ts	Max Vac	AH	%ISO	BWS	Y _{ga}
		250.0 min	155.673 ft ³	0.20 in. WC	75.3 °F	397.4 °F	8	1.320 in. WC	101.1	0.210

Isokinetic Field Data

Location: BASF - Geismar, LA				Start Time: 14:25		Source: No. 3 Boiler EQT0161/UTL15			
Date: 5/7/24		Run 2		End Time: 18:56		Project No.: AST-2024-2573		Parameter: PAH, PCB	

STACK DATA (EST)		EQUIPMENT		STACK DATA (EST)		FILTER NO.		STACK DATA (FINAL)		MOIST. DATA	
Moisture: 21.0 % est.		Meter Box ID: BTR-2		Est. Tm: 75 °F				Pb: 29.79 in. Hg		Vlc (ml)	
Barometric: 29.87 in. Hg		Y: 0.984		Est. Ts: 397 °F				Pg: 0.10 in. WC		847.7	
Static Press: 0.10 in. WC		AH @ (in.WC): 1.949		Est. AP: 0.20 in. WC				O ₂ : 4.41 %		K-FACTOR	
Stack Press: 29.88 in. Hg		Probe ID: 17-3-2		Est. Dn: 0.361 in.				CO ₂ : 10.89 %		6.76	
CO ₂ : 9.7 %		Liner Material: glass		Target Rate: 0.65 scfm				Check Pt.	Initial	Final	Corr.
O ₂ : 4.6 %		Pitot ID: 17-3-2		LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post				Mid 1 (cf)		--	
N ₂ /CO: 85.7 %		Pitot Cp/Type: 0.799 S-type		Leak Rate (cfm): 0.000 -- -- -- 0.000				Mid 2 (cf)		--	
Md: 29.74 lb/lb-mole		Nozzle ID: 24-2573-1 glass		Vacuum (in Hg): 15 -- -- -- 15				Mid 3 (cf)		--	
Ms: 27.27 lb/lb-mole		Nozzle Dn (in.): 0.351		Pitot Tube: Pass -- -- -- Pass				Mid-Point Leak Check Vol (cf):		--	

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft ³)	Pitot Tube AP (in WC)	Gas Temperatures (°F)		Orifice Press. AH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)				
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap						
																Amb.	Amb.	Amb.	Amb.
A1	0.00	5.00	736.859	0.20	79	446	1.29	1.30	4	255	257	58	46	105.8	32.21				
1	5.00	10.00	740.130	0.18	79	444	1.16	1.20	4	260	256	58	46	106.2	30.52				
2	10.00	15.00	743.250	0.20	79	444	1.29	1.30	4	259	256	57	47	96.9	32.17				
2	15.00	20.00	746.250	0.25	79	445	1.61	1.60	4	256	252	57	48	93.8	35.99				
3	20.00	25.00	749.490	0.25	79	439	1.62	1.60	4	262	254	58	49	103.0	35.87				
3	25.00	30.00	753.060	0.20	79	431	1.31	1.30	4	260	253	60	50	107.5	31.94				
4	30.00	35.00	756.410	0.18	79	434	1.18	1.20	4	260	254	62	51	107.7	30.35				
4	35.00	40.00	759.590	0.18	80	421	1.20	1.20	4	262	255	64	52	105.0	30.13				
5	40.00	45.00	762.720	0.20	80	425	1.32	1.30	4	259	253	64	53	103.1	31.83				
5	45.00	50.00	765.950	0.20	80	416	1.34	1.30	4	258	257	67	55	101.9	31.67				
B1	50.00	55.00	769.160	0.10	80	421	0.67	0.67	3	255	254	57	43	103.0	22.46				
1	55.00	60.00	771.450	0.10	81	422	0.67	0.67	3	255	257	57	44	102.8	22.47				
2	60.00	65.00	773.740	0.10	81	425	0.66	0.66	3	244	255	57	44	103.9	22.51				
2	65.00	70.00	776.050	0.12	81	423	0.80	0.80	3	249	255	57	44	97.2	24.63				
3	70.00	75.00	778.420	0.12	81	423	0.80	0.80	3	257	254	58	45	103.4	24.63				
3	75.00	80.00	780.940	0.12	81	407	0.81	0.80	3	265	256	58	45	100.4	24.40				
4	80.00	85.00	783.410	0.10	81	401	0.68	0.68	3	261	256	59	44	102.5	22.20				
4	85.00	90.00	785.720	0.10	81	395	0.69	0.69	3	260	257	61	45	98.6	22.12				
5	90.00	95.00	787.950	0.10	81	395	0.69	0.69	3	258	256	61	46	102.6	22.12				
5	95.00	100.00	790.270	0.10	81	394	0.69	0.69	3	261	257	61	46	98.3	22.11				
C1	100.00	105.00	792.494	0.09	81	390	0.62	0.62	3	248	254	67	54	97.4	20.93				
1	105.00	110.00	794.590	0.10	81	390	0.69	0.69	3	247	254	66	54	100.5	22.06				
2	110.00	115.00	796.870	0.16	81	422	1.07	1.05	4	251	254	54	43	97.4	28.42				
2	115.00	120.00	799.610	0.16	81	422	1.07	1.05	4	253	254	54	42	102.3	28.42				
3	120.00	125.00	802.490	0.15	81	419	1.00	1.00	4	254	252	55	42	102.6	27.47				
3	125.00	130.00	805.290	0.15	81	419	1.00	1.00	4	263	255	56	44	100.0	27.47				
4	130.00	135.00	808.020	0.17	81	404	1.16	1.15	4	261	254	56	43	101.4	29.00				
4	135.00	140.00	810.990	0.18	81	405	1.22	1.20	4	259	256	56	44	97.9	29.85				
5	140.00	145.00	813.940	0.20	81	407	1.35	1.35	4	259	254	56	43	101.2	31.50				
5	145.00	150.00	817.150	0.20	81	408	1.35	1.35	4	256	257	57	44	102.2	31.52				
D1	150.00	155.00	820.388	0.11	80	412	0.74	0.74	3	248	253	66	50	95.2	23.43				
1	155.00	160.00	822.620	0.11	80	421	0.73	0.74	3	251	254	59	49	101.6	23.55				
2	160.00	165.00	824.990	0.15	80	431	0.99	0.99	3	254	254	58	48	100.9	27.66				
2	165.00	170.00	827.720	0.15	80	434	0.98	0.99	3	257	254	58	50	101.8	27.71				
3	170.00	175.00	830.470	0.19	80	430	1.25	1.25	4	257	255	60	53	100.8	31.11				
3	175.00	180.00	833.540	0.19	80	429	1.25	1.25	4	257	256	62	54	102.4	31.09				
4	180.00	185.00	836.660	0.20	80	424	1.33	1.35	4	259	252	55	47	104.0	31.81				
4	185.00	190.00	839.920	0.20	80	423	1.33	1.35	5	260	252	53	42	102.0	31.79				
5	190.00	195.00	843.120	0.21	80	424	1.39	1.40	5	259	257	52	40	102.4	32.60				
5	195.00	200.00	846.410	0.21	79	424	1.39	1.40	5	258	254	52	40	104.8	32.60				
E1	200.00	205.00	849.771	0.18	79	424	1.19	1.20	5	247	253	52	40	99.0	30.18				
1	205.00	210.00	852.710	0.18	79	432	1.18	1.20	5	251	256	55	46	104.9	30.32				
2	210.00	215.00	855.810	0.24	79	436	1.56	1.60	5	249	254	54	47	101.7	35.08				
2	215.00	220.00	859.270	0.25	79	438	1.63	1.60	5	254	257	54	49	102.3	35.85				
3	220.00	225.00	862.820	0.31	79	432	2.03	2.05	6	257	256	56	50	101.5	39.79				
3	225.00	230.00	866.750	0.31	79	430	2.03	2.05	6	266	255	57	50	102.2	39.74				
4	230.00	235.00	870.710	0.30	79	430	1.97	2.00	6	272	253	59	52	103.3	39.09				
4	235.00	240.00	874.650	0.30	78	425	1.97	2.00	6	267	255	60	53	108.2	38.98				
5	240.00	245.00	878.780	0.31	78	424	2.04	2.05	6	271	257	63	57	102.3	39.61				
5	245.00	250.00	882.750	0.31	78	424	2.04	2.05	6	271		64	57	97.7	39.61				
Final DGM:			886.542																

RESULTS	Run Time	Vm	AP	Tm	Ts	Max Vac	AH	%ISO	BWS	Y _{ga}
	250.0 min	149.683 ft ³	0.18 in. WC	80.0 °F	421.7 °F	6	1.203 in. WC	102.6	0.218	1.8

Location: BASF - Geismar, LA				Start Time: 8:25		Source: No. 3 Boiler EQT0161/UTL15			
Date: 5/8/24		Run 3		End Time: 12:57		Project No.: AST-2024-2573		Parameter: PAH, PCB	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)			MOIST. DATA	
Moisture:	21.0	% est.	Meter Box ID:	BTR-2	Est. Tm:	80	°F			Pb:	29.77	in. Hg	Vlc (ml)	
Barometric:	29.87	in. Hg	Y:	0.984	Est. Ts:	422	°F			Pg:	0.10	in. WC	832.9	
Static Press:	0.10	in. WC	AH @ (in.WC):	1.949	Est. AP:	0.18	in. WC			O ₂ :	4.42	%	K-FACTOR	
Stack Press:	29.88	in. Hg	Probe ID:	17-3-2	Est. Dn:	0.370	in.			CO ₂ :	10.88	%	6.633	
CO ₂ :	9.7	%	Liner Material:	glass	Target Rate:	0.65	scfm			Check Pt. Initial Final Corr.				
O ₂ :	4.6	%	Pitot ID:	17-3-2	LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)		--	
N ₂ /CO:	85.7	%	Pitot Cp/Type:	0.799	Leak Rate (cfm):	0.000	--	--	--	0.000	Mid 2 (cf)		--	
Md:	29.74	lb/lb-mole	Nozzle ID:	24-2573-1	Vacuum (in Hg):	15	--	--	--	15	Mid 3 (cf)		--	
Ms:	27.27	lb/lb-mole	Nozzle Dn (in.):	0.351	Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf):		--	

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft³)	Pitot Tube AP (in WC)	Gas Temperatures (°F)		Orifice Press. AH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)				
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap						
																Amb.	Amb.	Amb.	Amb.
A1	0.00	5.00	886.805	0.13	64	329	0.94	0.94	3	235	251	62	61	101.0	24.23				
1	5.00	10.00	889.430	0.18	65	332	1.29	1.30	4	239	257	52	48	93.6	28.57				
2	10.00	15.00	892.290	0.24	65	380	1.63	1.65	4	245	256	53	46	103.4	33.97				
2	15.00	20.00	895.830	0.24	65	415	1.56	1.60	4	251	255	53	45	105.3	34.67				
3	20.00	25.00	899.360	0.20	66	418	1.30	1.30	4	252	253	56	46	103.4	31.70				
3	25.00	30.00	902.530	0.20	66	419	1.30	1.30	4	251	256	56	46	101.5	31.72				
4	30.00	35.00	905.640	0.22	67	421	1.43	1.40	4	256	254	58	47	102.1	33.31				
4	35.00	40.00	908.920	0.22	67	418	1.43	1.45	4	257	256	60	49	98.5	33.25				
5	40.00	45.00	912.090	0.22	67	419	1.43	1.45	4	257	256	62	50	107.9	33.27				
5	45.00	50.00	915.560	0.23	68	419	1.50	1.50	5	257	253	63	50	103.2	34.02				
B1	50.00	55.00	918.960	0.11	70	324	0.81	0.81	4	248	254	65	52	101.4	22.22				
1	55.00	60.00	921.420	0.10	69	324	0.73	0.73	4	252	254	62	51	103.5	21.18				
2	60.00	65.00	923.810	0.15	69	369	1.04	1.10	4	253	255	56	51	100.8	26.68				
2	65.00	70.00	926.580	0.17	69	413	1.12	1.10	4	259	256	54	47	107.7	29.15				
3	70.00	75.00	929.650	0.16	69	416	1.05	1.05	4	258	256	55	44	105.4	28.32				
3	75.00	80.00	932.560	0.15	70	418	0.98	1.00	4	256	254	56	44	103.9	27.46				
4	80.00	85.00	935.340	0.19	70	412	1.25	1.30	4	254	256	58	45	103.0	30.80				
4	85.00	90.00	938.450	0.19	70	409	1.26	1.30	5	258	252	58	48	102.8	30.74				
5	90.00	95.00	941.560	0.18	70	410	1.19	1.20	5	256	254	58	49	108.4	29.94				
5	95.00	100.00	944.750	0.18	71	411	1.19	1.20	5	254	255	61	52	105.2	29.96				
C1	100.00	105.00	947.850	0.11	71	325	0.81	0.82	4	250	256	62	52	95.9	22.23				
1	105.00	110.00	950.180	0.11	71	336	0.80	0.80	4	252	254	62	52	101.1	22.39				
2	110.00	115.00	952.620	0.20	71	369	1.39	1.40	6	250	256	55	48	98.0	30.81				
2	115.00	120.00	955.740	0.20	71	420	1.31	1.30	6	256	255	54	45	107.4	31.74				
3	120.00	125.00	959.060	0.18	72	420	1.18	1.20	6	255	253	56	45	107.2	30.11				
3	125.00	130.00	962.210	0.20	72	423	1.31	1.30	6	262	255	58	47	101.6	31.79				
4	130.00	135.00	965.350	0.22	72	425	1.43	1.45	6	257	254	59	48	102.6	33.38				
4	135.00	140.00	968.670	0.23	72	417	1.51	1.50	6	262	255	60	49	103.5	33.98				
5	140.00	145.00	972.110	0.23	73	417	1.52	1.50	6	260	255	61	50	104.2	33.98				
5	145.00	150.00	975.580	0.24	73	417	1.58	1.60	6	257	253	64	51	104.4	34.71				
D1	150.00	155.00	979.130	0.12	73	350	0.86	0.86	5	250	261	66	53	94.1	23.59				
1	155.00	160.00	981.490	0.12	73	352	0.86	0.86	5	249	251	66	53	91.1	23.62				
2	160.00	165.00	983.770	0.16	74	382	1.10	1.10	5	251	254	57	44	108.0	27.77				
2	165.00	170.00	986.840	0.17	74	382	1.17	1.20	6	258	256	58	45	102.1	28.62				
3	170.00	175.00	989.830	0.23	74	431	1.49	1.50	7	256	253	60	47	99.4	34.25				
3	175.00	180.00	993.120	0.25	74	436	1.61	1.60	7	259	261	61	48	102.3	35.81				
4	180.00	185.00	996.640	0.25	74	433	1.62	1.60	7	258	253	62	50	101.6	35.75				
4	185.00	190.00	1000.140	0.25	74	432	1.62	1.65	7	261	252	64	51	101.2	35.73				
5	190.00	195.00	1003.630	0.26	75	433	1.69	1.70	7	264	264	65	55	102.3	36.46				
5	195.00	200.00	1007.230	0.26	75	433	1.69	1.70	7	261	254	66	56	98.9	36.46				
E1	200.00	205.00	1010.710	0.22	75	366	1.54	1.55	7	249	256	67	58	102.4	32.25				
1	205.00	210.00	1014.160	0.22	75	361	1.55	1.55	7	248	253	64	52	106.3	32.15				
2	210.00	215.00	1017.750	0.30	76	399	2.03	2.05	8	256	257	58	49	100.0	38.41				
2	215.00	220.00	1021.610	0.28	76	438	1.81	1.40	7	256	255	60	50	97.7	37.94				
3	220.00	225.00	1025.180	0.35	76	440	2.26	2.30	8	254	256	61	51	95.8	42.46				
3	225.00	230.00	1029.080	0.36	76	440	2.32	2.35	8	259	256	61	50	98.6	43.07				
4	230.00	235.00	1033.150	0.35	76	437	2.26	2.30	9	267	257	64	52	103.0	42.39				
4	235.00	240.00	1037.350	0.36	77	436	2.33	2.35	9	263	254	65	54	98.0	42.97				
5	240.00	245.00	1041.410	0.37	77	436	2.40	2.40	9	263	257	65	55	103.1	43.56				
5	245.00	250.00	1045.740	0.37	77	437	2.40	2.40	9	263	254	66	55	98.3	43.59				
Final DGM:			1049.866																

RESULTS	Run Time		Vm	AP		Tm	Ts	Max Vac	AH	%ISO	BWS	Y _{sp}				
	min	sec		in. WC	°F											
	250.0		163.061	ft³	0.22	in. WC	71.5	°F	402.0	°F	9	1.439	in. WC	100.4	0.198	1.8

Isokinetic Field Data

Location: BASF - Geismar, LA				Start Time: 13:36		Source: No. 3 Boiler EQT0161/UTL15			
Date: 5/8/24		Run 4		End Time: 18:08		Project No.: AST-2024-2573		Parameter: PAH, PCB	

STACK DATA (EST)	EQUIPMENT	STACK DATA (EST)	FILTER NO.	STACK DATA (FINAL)	MOIST. DATA
Moisture: 21.0 % est.	Meter Box ID: BTR-2	Est. Tm: 72 °F		Pb: 29.74 in. Hg	Vlc (ml)
Barometric: 29.87 in. Hg	Y: 0.984	Est. Ts: 402 °F		Pg: 0.10 in. WC	777.5
Static Press: 0.10 in. WC	AH @ (in.WC): 1.949	Est. AP: 0.22 in. WC		O ₂ : 4.43 %	K-FACTOR
Stack Press: 29.88 in. Hg	Probe ID: 17-3-2	Est. Dn: 0.354 in.		CO ₂ : 10.91 %	6.678
CO ₂ : 9.7 %	Liner Material: glass	Target Rate: 0.65 scfm		Check Pt.	Initial Final Corr.
O ₂ : 4.6 %	Pitot ID: 17-3-2	LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post		Mid 1 (cf)	--
N ₂ /CO: 85.7 %	Pitot Cp/Type: 0.799 S-type	Leak Rate (cfm): 0.002 -- -- -- 0.002		Mid 2 (cf)	--
Md: 29.74 lb/lb-mole	Nozzle ID: 24-2573-1 glass	Vacuum (in Hg): 16.5 -- -- -- 16		Mid 3 (cf)	--
Ms: 27.27 lb/lb-mole	Nozzle Dn (in.): 0.351	Pitot Tube: Pass -- -- -- Pass		Mid-Point Leak Check Vol (cf):	--

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft ³)	Pitot Tube AP (in WC)	Gas Temperatures (°F)		Orifice Press. AH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
					DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
	Amb.	Amb.			Amb.	Amb.				Amb.	Amb.				
	Begin	End			--	--				--	--	--	--		
A1	0.00	5.00	50.213	0.17	77	433	1.11	1.10	3	245	255	68	66	103.3	29.48
1	5.00	10.00	53.170	0.17	77	441	1.10	1.10	3	250	260	67	54	96.5	29.61
2	10.00	15.00	55.920	0.22	78	441	1.42	1.45	4	250	254	68	53	102.0	33.68
2	15.00	20.00	59.230	0.22	78	441	1.42	1.45	5	256	255	65	52	102.3	33.68
3	20.00	25.00	62.550	0.21	78	432	1.37	1.40	5	257	256	58	43	105.5	32.75
3	25.00	30.00	65.910	0.21	78	430	1.38	1.40	5	260	258	56	45	98.5	32.71
4	30.00	35.00	69.050	0.20	78	430	1.31	1.30	4	260	256	55	44	101.8	31.92
4	35.00	40.00	72.220	0.18	79	426	1.19	1.20	4	257	255	55	46	103.2	30.21
5	40.00	45.00	75.280	0.18	79	426	1.19	1.20	4	255	252	56	47	105.9	30.21
5	45.00	50.00	78.420	0.19	79	428	1.25	1.30	4	257	257	57	46	102.8	31.08
B1	50.00	55.00	81.550	0.10	79	430	0.66	0.67	4	247	257	66	55	91.0	22.57
1	55.00	60.00	83.560	0.10	79	431	0.66	0.66	4	250	249	60	44	100.6	22.58
2	60.00	65.00	85.780	0.14	80	437	0.92	0.92	4	247	257	56	49	99.4	26.81
2	65.00	70.00	88.370	0.14	80	437	0.92	0.92	4	252	258	57	49	96.3	26.81
3	70.00	75.00	90.880	0.15	80	431	0.99	1.00	4	258	259	59	49	102.3	27.66
3	75.00	80.00	93.650	0.15	80	420	1.00	1.00	4	259	264	60	50	103.2	27.49
4	80.00	85.00	96.460	0.15	80	421	1.00	1.00	4	256	252	62	52	101.8	27.50
4	85.00	90.00	99.230	0.15	80	411	1.01	1.00	4	253	261	62	50	99.0	27.35
5	90.00	95.00	101.940	0.15	81	409	1.01	1.00	4	260	254	62	55	102.0	27.32
5	95.00	100.00	104.740	0.15	81	409	1.01	1.00	4	259	253	61	50	101.3	27.32
C1	100.00	105.00	107.520	0.10	81	433	0.66	0.66	4	255	254	65	51	103.5	22.61
1	105.00	110.00	109.810	0.10	81	436	0.66	0.66	4	255	256	58	42	105.0	22.65
2	110.00	115.00	112.130	0.17	81	438	1.11	1.10	4	251	252	57	46	104.0	29.56
2	115.00	120.00	115.120	0.17	82	438	1.11	1.10	4	255	257	57	46	94.8	29.56
3	120.00	125.00	117.850	0.19	82	441	1.24	1.20	5	259	256	57	45	101.7	31.30
3	125.00	130.00	120.940	0.19	82	440	1.24	1.25	5	262	253	56	46	108.2	31.29
4	130.00	135.00	124.230	0.20	82	427	1.33	1.35	5	255	260	59	49	103.8	31.87
4	135.00	140.00	127.490	0.20	82	425	1.33	1.30	5	258	254	59	48	105.6	31.83
5	140.00	145.00	130.810	0.21	82	421	1.40	1.40	5	259	256	60	48	102.2	32.54
5	145.00	150.00	134.110	0.21	82	422	1.40	1.40	6	257	255	60	50	105.7	32.56
D1	150.00	155.00	137.520	0.10	82	420	0.67	0.67	5	250	257	64	53	103.9	22.44
1	155.00	160.00	139.840	0.10	82	437	0.66	0.66	5	252	254	65	53	102.2	22.66
2	160.00	165.00	142.100	0.14	82	445	0.91	0.91	5	254	259	65	56	94.1	26.93
2	165.00	170.00	144.550	0.15	82	446	0.97	1.00	5	257	255	56	37	108.4	27.89
3	170.00	175.00	147.470	0.22	82	446	1.43	1.45	7	257	259	57	37	105.9	33.78
3	175.00	180.00	150.920	0.22	82	441	1.44	1.45	7	262	256	57	46	106.8	33.68
4	180.00	185.00	154.410	0.23	82	435	1.51	1.50	7	261	261	57	47	102.6	34.33
4	185.00	190.00	157.850	0.23	82	436	1.51	1.50	7	261	245	59	49	98.5	34.35
5	190.00	195.00	161.150	0.23	82	433	1.51	1.50	7	260	256	59	49	103.4	34.29
5	195.00	200.00	164.620	0.22	82	433	1.45	1.45	7	260	254	59	49	99.9	33.53
E1	200.00	205.00	167.900	0.17	81	418	1.14	1.15	6	253	255	62	51	101.5	29.23
1	205.00	210.00	170.850	0.20	81	442	1.30	1.30	7	254	255	66	56	92.3	32.13
2	210.00	215.00	173.720	0.27	81	447	1.74	1.75	8	254	255	55	37	106.7	37.44
2	215.00	220.00	177.560	0.28	81	447	1.81	1.80	8	252	264	56	37	96.9	38.13
3	220.00	225.00	181.110	0.35	81	442	2.27	2.30	9	256	256	55	39	98.0	42.51
3	225.00	230.00	185.130	0.34	81	440	2.21	2.20	9	260	257	55	40	101.5	41.85
4	230.00	235.00	189.240	0.35	81	434	2.29	2.30	9	260	256	55	43	101.4	42.32
4	235.00	240.00	193.420	0.35	81	434	2.29	2.35	9	268	257	56	43	94.6	42.32
5	240.00	245.00	197.320	0.34	80	434	2.22	2.20	9	265	255	57	44	99.4	41.71
5	245.00	250.00	201.350	0.32	80	434	2.09	2.10	9	265	257	57	45	97.6	40.47
Final DGM:			205.192												

RESULTS	Run Time	Vm	AP	Tm	Ts	Max Vac	AH	%ISO	BWS	Y _{qs}
	250.0 min	154.979 ft ³	0.20 in. WC	80.5 °F	432.6 °F	9	1.301 in. WC	100.1	0.198	1.2

Isokinetic Field Data

Location: BASF - Geismar, LA				Start Time: 8:15		Source: No. 3 Boiler EQT0161/UTL15					
Date: 5/9/24		Run 5		VALID		End Time: 13:07		Project No.: AST-2024-2573		Parameter: PAH, PCB	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)			MOIST. DATA	
Moisture:	21.0	% est.	Meter Box ID:	BTR-2	Est. Tm:	81	°F		Pb:	29.79	in. Hg	Vlc (ml)		
Barometric:	29.87	in. Hg	Y:	0.984	Est. Ts:	433	°F		Pg:	0.10	in. WC	789.0		
Static Press:	0.10	in. WC	AH @ (in.WC):	1.949	Est. AP:	0.20	in. WC		O ₂ :	4.63	%	K-FACTOR		
Stack Press:	29.88	in. Hg	Probe ID:	17-3-2	Est. Dn:	0.363	in.		CO ₂ :	10.44	%	6.558		
CO ₂ :	9.7	%	Liner Material:	glass	Target Rate:	0.65	scfm		Check Pt. Initial Final Corr.					
O ₂ :	4.6	%	Pitot ID:	17-3-2	LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)	--		
N ₂ /CO:	85.7	%	Pitot Cp/Type:	0.799	Leak Rate (cfm):	0.000	--	--	--	0.003	Mid 2 (cf)	--		
Md:	29.74	lb/lb-mole	Nozzle ID:	24-2573-1	Vacuum (in Hg):	15	--	--	--	13	Mid 3 (cf)	--		
Ms:	27.27	lb/lb-mole	Nozzle Dn (in.):	0.351	Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf):	--		

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft ³)	Pitot Tube AP (in WC)	Gas Temperatures (°F)		Orifice Press. AH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)				
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap						
																Amb.	Amb.	Amb.	Amb.
A1	0.00	5.00	206.168	0.14	66	320	1.02	1.00	5	243	254	64	36	100.7	25.00				
1	5.00	10.00	208.910	0.15	66	322	1.10	1.10	5	251	258	60	37	104.5	25.91				
2	10.00	15.00	211.850	0.15	66	327	1.09	1.20	5	253	259	51	39	104.9	25.99				
2	15.00	20.00	214.790	0.20	66	330	1.44	1.45	6	258	255	51	40	104.4	30.07				
3	20.00	25.00	218.160	0.15	67	403	0.99	1.00	5	257	255	54	42	102.8	27.22				
3	25.00	30.00	220.920	0.15	67	402	1.00	1.00	5	257	255	55	43	100.2	27.21				
4	30.00	35.00	223.610	0.16	68	398	1.07	1.10	5	256	255	55	45	104.5	28.03				
4	35.00	40.00	226.520	0.16	68	399	1.07	1.10	5	259	255	55	46	107.4	28.05				
5	40.00	45.00	229.510	0.17	68	397	1.14	1.50	6	258	254	57	47	101.1	28.88				
5	45.00	50.00	232.410	0.18	68	399	1.20	1.20	6	260	257	58	48	100.3	29.75				
B1	50.00	55.00	235.369	0.10	69	350	0.71	0.71	4	256	257	65	48	94.7	21.53				
1	55.00	60.00	237.520	0.10	69	385	0.68	0.68	4	251	253	66	50	97.1	21.99				
2	60.00	65.00	239.680	0.13	70	382	0.89	0.89	4	255	255	66	50	106.1	25.03				
2	65.00	70.00	242.380	0.13	70	397	0.87	0.87	4	254	258	60	41	96.3	25.25				
3	70.00	75.00	244.810	0.12	70	398	0.81	0.81	4	255	254	56	34	101.6	24.28				
3	75.00	80.00	247.270	0.12	70	395	0.81	0.81	4	254	255	56	35	100.6	24.23				
4	80.00	85.00	249.710	0.14	70	389	0.95	0.95	4	257	255	55	36	99.6	26.08				
4	85.00	90.00	252.330	0.14	70	388	0.95	0.95	4	260	255	55	38	95.4	26.07				
5	90.00	95.00	254.840	0.15	70	388	1.02	1.00	5	256	255	56	40	103.9	26.98				
5	95.00	100.00	257.670	0.15	71	388	1.02	1.00	5	256	254	57	40	100.1	26.98				
C1	100.00	105.00	260.400	0.10	71	330	0.73	0.73	4	257	252	63	45	101.8	21.26				
1	105.00	110.00	262.750	0.10	71	316	0.74	0.74	4	252	256	64	46	93.6	21.08				
2	110.00	115.00	264.930	0.15	71	363	1.05	1.05	5	252	251	63	47	98.6	26.58				
2	115.00	120.00	267.660	0.15	72	399	1.01	1.00	5	258	254	62	48	102.0	27.16				
3	120.00	125.00	270.430	0.17	72	402	1.14	1.15	5	257	254	63	47	100.9	28.96				
3	125.00	130.00	273.340	0.17	72	405	1.13	1.15	6	261	256	63	47	104.5	29.01				
4	130.00	135.00	276.350	0.18	72	405	1.20	1.20	6	258	253	61	46	100.8	29.85				
4	135.00	140.00	279.338	0.18	72	406	1.20	1.20	6	264	252	60	46	95.0	29.87				
5	140.00	145.00	282.150	0.20	72	406	1.33	1.30	6	264	256	58	46	102.5	31.49				
5	145.00	150.00	285.350	0.20	73	402	1.34	1.30	6	257	254	60	47	102.1	31.41				
D1	150.00	155.00	288.550	0.10	73	352	0.71	0.68	5	256	255	64	51	100.1	21.56				
1	155.00	160.00	290.840	0.10	74	355	0.71	0.70	5	256	256	65	53	104.1	21.60				
2	160.00	165.00	293.220	0.13	75	359	0.92	0.92	5	257	262	60	50	101.4	24.69				
2	165.00	170.00	295.860	0.15	75	416	0.99	1.00	5	262	249	60	53	94.7	27.43				
3	170.00	175.00	298.420	0.20	75	418	1.32	1.30	6	258	254	60	54	100.7	31.70				
3	175.00	180.00	301.560	0.20	75	425	1.31	1.30	6	259	259	59	54	95.3	31.83				
4	180.00	185.00	304.520	0.21	75	423	1.38	1.40	7	260	253	62	57	98.9	32.58				
4	185.00	190.00	307.670	0.21	75	421	1.38	1.40	7	264	254	62	56	101.6	32.54				
5	190.00	195.00	310.910	0.22	76	426	1.44	1.45	7	262	252	65	60	102.5	33.40				
5	195.00	200.00	314.250	0.22	76	428	1.44	1.45	7	258	255	65	61	102.9	33.44				
E1	200.00	205.00	317.600	0.19	77	363	1.34	1.35	7	256	259	65	39	98.4	29.92				
1	205.00	210.00	320.700	0.19	77	357	1.35	1.40	7	253	250	56	37	98.1	29.81				
2	210.00	215.00	323.800	0.24	78	417	1.60	1.60	8	256	256	56	38	102.0	34.71				
2	215.00	220.00	327.300	0.24	78	429	1.57	1.60	8	255	260	55	38	103.8	34.95				
3	220.00	225.00	330.840	0.25	78	431	1.64	1.65	8	257	253	56	39	102.1	35.71				
3	225.00	230.00	334.390	0.26	78	428	1.71	1.70	8	256	252	58	41	101.1	36.35				
4	230.00	235.00	337.980	0.29	78	425	1.91	1.90	8	254	260	56	43	98.8	38.33				
4	235.00	240.00	341.690	0.29	79	422	1.92	1.95	8	263	259	57	45	101.4	38.26				
5	240.00	245.00	345.510	0.33	79	422	2.18	2.20	8	262	256	59	46	101.6	40.82				
5	245.00	250.00	349.590	0.33	79	419	2.19	2.20	8	259	263	61	48	97.6	40.75				
Final DGM:			353.514																

RESULTS	Run Time		Vm	AP		Tm	Ts	Max Vac	AH	%ISO	BWS	Y _{ga}				
	min	sec		in. WC	°F											
	250.0		147.346	ft ³	0.18	in. WC	72.3	°F	390.5	°F	8	1.206	in. WC	100.2	0.206	0.4

Location: BASF - Geismar, LA				Start Time: 14:00		Source: No. 3 Boiler EQT0161/UTL15			
Date: 5/9/24		Run 6		End Time: 18:33		Project No.: AST-2024-2573		Parameter: PAH, PCB	

STACK DATA (EST)	EQUIPMENT	STACK DATA (EST)	FILTER NO.	STACK DATA (FINAL)	MOIST. DATA
Moisture: 21.0 % est.	Meter Box ID: BTR-2	Est. Tm: 72 °F		Pb: 29.78 in. Hg	Vlc (ml)
Barometric: 29.87 in. Hg	Y: 0.984	Est. Ts: 391 °F		Pg: 0.10 in. WC	819.8
Static Press: 0.10 in. WC	AH @ (in.WC): 1.949	Est. AP: 0.18 in. WC		O ₂ : 4.42 %	K-FACTOR
Stack Press: 29.88 in. Hg	Probe ID: 17-3-2	Est. Dn: 0.371 in.		CO ₂ : 10.23 %	6.778
CO ₂ : 9.7 %	Liner Material: glass	Target Rate: 0.65 scfm		Check Pt.	Initial Final Corr.
O ₂ : 4.6 %	Pitot ID: 17-3-2	LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post		Mid 1 (cf)	--
N ₂ /CO: 85.7 %	Pitot Cp/Type: 0.799 S-type	Leak Rate (cfm): 0.000 -- -- -- 0.000		Mid 2 (cf)	--
Md: 29.74 lb/lb-mole	Nozzle ID: 24-2573-1 glass	Vacuum (in Hg): 15 -- -- -- 15		Mid 3 (cf)	--
Ms: 27.27 lb/lb-mole	Nozzle Dn (in.): 0.351	Pitot Tube: Pass -- -- -- Pass		Mid-Point Leak Check Vol (cf):	--

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft³)	Pitot Tube AP (in WC)	Gas Temperatures (°F)		Orifice Press. AH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
					Amb.	Amb.				Amb.	Amb.	Amb.	Amb.		
A1	0.00	5.00	357.487	0.14	80	366	0.99	1.00	3	238	244	61	44	96.6	25.73
1	5.00	10.00	360.110	0.18	80	438	1.17	1.20	3	238	248	64	42	102.3	30.42
2	10.00	15.00	363.130	0.24	80	441	1.56	1.60	3	242	254	60	45	100.0	35.18
2	15.00	20.00	366.530	0.24	80	441	1.56	1.60	3	251	254	58	42	97.1	35.18
3	20.00	25.00	369.830	0.20	80	436	1.31	1.30	3	251	255	55	40	97.6	32.03
3	25.00	30.00	372.870	0.20	81	430	1.32	1.30	3	255	256	54	36	105.4	31.92
4	30.00	35.00	376.170	0.15	81	425	1.00	1.00	3	256	256	52	33	102.2	27.57
4	35.00	40.00	378.950	0.15	82	420	1.00	1.00	3	254	255	54	33	102.1	27.49
5	40.00	45.00	381.740	0.17	82	423	1.13	1.10	3	253	256	58	33	103.0	29.31
5	45.00	50.00	384.730	0.17	82	423	1.13	1.15	3	253	254	60	33	95.7	29.31
B1	50.00	55.00	387.510	0.10	82	425	0.67	0.67	3	247	252	63	47	97.9	22.51
1	55.00	60.00	389.690	0.10	83	427	0.67	0.67	3	256	254	52	35	97.8	22.53
2	60.00	65.00	391.870	0.13	83	429	0.86	0.86	3	249	255	58	34	102.5	25.72
2	65.00	70.00	394.470	0.14	83	430	0.93	0.93	3	256	256	58	35	96.5	26.71
3	70.00	75.00	397.010	0.14	83	425	0.93	0.93	3	252	254	54	35	101.2	26.63
3	75.00	80.00	399.680	0.15	83	426	1.00	1.00	3	252	252	55	36	98.9	27.58
4	80.00	85.00	402.380	0.14	83	406	0.95	0.96	3	258	257	55	36	104.6	26.34
4	85.00	90.00	405.170	0.14	83	405	0.95	0.96	3	258	255	55	36	103.4	26.33
5	90.00	95.00	407.930	0.15	83	405	1.02	1.00	3	256	254	55	38	98.1	27.25
5	95.00	100.00	410.640	0.14	83	406	0.95	0.96	3	256	257	56	41	103.9	26.34
C1	100.00	105.00	413.410	0.10	83	389	0.69	0.70	3	252	256	61	40	95.3	22.04
1	105.00	110.00	415.580	0.10	83	431	0.66	0.66	3	253	253	64	43	106.1	22.58
2	110.00	115.00	417.940	0.14	83	430	0.93	0.93	3	253	254	63	42	99.2	26.71
2	115.00	120.00	420.550	0.15	83	433	0.99	1.00	3	250	254	64	46	102.6	27.69
3	120.00	125.00	423.340	0.21	83	433	1.38	1.40	3	260	256	62	47	101.8	32.76
3	125.00	130.00	426.610	0.21	83	424	1.40	1.40	3	262	256	63	46	106.5	32.60
4	130.00	135.00	430.050	0.20	83	421	1.34	1.35	3	257	256	64	47	106.4	31.76
4	135.00	140.00	433.410	0.19	83	411	1.28	1.30	3	257	252	65	50	103.7	30.78
5	140.00	145.00	436.620	0.20	83	417	1.34	1.35	3	260	257	65	50	98.6	31.69
5	145.00	150.00	439.740	0.18	83	423	1.20	1.20	3	262	256	64	50	104.2	30.16
D1	150.00	155.00	442.860	0.10	83	432	0.66	0.66	3	256	256	64	51	103.5	22.60
1	155.00	160.00	445.160	0.10	83	433	0.66	0.66	3	256	257	66	44	101.7	22.61
2	160.00	165.00	447.420	0.14	83	433	0.92	0.93	3	257	256	66	43	104.3	26.75
2	165.00	170.00	450.160	0.15	83	439	0.98	1.00	3	255	262	62	46	101.5	27.78
3	170.00	175.00	452.910	0.19	83	438	1.25	1.25	3	256	253	63	46	98.7	31.25
3	175.00	180.00	455.920	0.22	83	435	1.45	1.45	3	255	255	62	47	104.1	33.57
4	180.00	185.00	459.340	0.22	83	433	1.45	1.45	3	256	254	63	50	103.1	33.53
4	185.00	190.00	462.730	0.20	83	430	1.32	1.35	3	261	255	63	49	101.9	31.92
5	190.00	195.00	465.930	0.20	83	428	1.33	1.35	3	257	254	64	49	102.7	31.88
5	195.00	200.00	469.160	0.20	83	426	1.33	1.35	3	256	255	65	51	102.3	31.85
E1	200.00	205.00	472.380	0.18	83	415	1.21	1.25	3	251	257	66	52	100.1	30.03
1	205.00	210.00	475.390	0.18	83	435	1.18	1.20	3	251	254	65	43	103.9	30.37
2	210.00	215.00	478.480	0.22	83	438	1.44	1.45	3	248	254	63	40	96.7	33.63
2	215.00	220.00	481.650	0.24	82	440	1.57	1.60	3	253	256	61	45	105.5	35.16
3	220.00	225.00	485.250	0.25	82	438	1.64	1.65	3	260	256	54	34	102.4	35.85
3	225.00	230.00	488.820	0.32	82	434	2.10	2.10	3	258	249	52	34	104.5	40.47
4	230.00	235.00	492.950	0.35	82	433	2.30	2.30	3	272	259	52	34	98.5	42.30
4	235.00	240.00	497.020	0.35	82	432	2.30	2.30	3	270	254	53	34	100.6	42.27
5	240.00	245.00	501.180	0.34	82	431	2.24	2.25	3	265	255	54	35	104.7	41.64
5	245.00	250.00	505.450	0.33	82	430	2.19	2.20	3	267	255	54	36	104.4	41.19
Final DGM:			509.664												

RESULTS	Run Time	Vm	AP	Tm	Ts	Max Vac	AH	%ISO	BWS	Y _{qs}
	250.0 min	152.177 ft³	0.19 in. WC	82.4 °F	425.8 °F	3	1.245 in. WC	101.5	0.210	1.2

Location: BASF - Geismar, LA				Start Time: 8:15		Source: No. 3 Boiler EQT0161/UTL15			
Date: 5/10/24		Run 7		End Time: 12:43		Project No.: AST-2024-2573		Parameter: PAH, PCB	

STACK DATA (EST)		EQUIPMENT		STACK DATA (EST)		FILTER NO.		STACK DATA (FINAL)		MOIST. DATA	
Moisture:	21.0 % est.	Meter Box ID:	BTR-2	Est. Tm:	82 °F			Pb:	29.82 in. Hg	Vlc (ml)	
Barometric:	29.87 in. Hg	Y:	0.984	Est. Ts:	426 °F			Pg:	0.10 in. WC	906.0	
Static Press:	0.10 in. WC	AH @ (in.WC):	1.949	Est. AP:	0.19 in. WC			O ₂ :	4.51 %	K-FACTOR	
Stack Press:	29.88 in. Hg	Probe ID:	17-3-2	Est. Dn:	0.366 in.			CO ₂ :	10.81 %	6.631	
CO ₂ :	9.7 %	Liner Material:	glass	Target Rate:	0.65 scfm			Check Pt. Initial Final Corr.			
O ₂ :	4.6 %	Pitot ID:	17-3-2	LEAK CHECK:	Pre Mid 1 Mid 2 Mid 3 Post			Mid 1 (cf)		--	
N ₂ /CO:	85.7 %	Pitot Cp/Type:	0.799 S-type	Leak Rate (cfm):	0.000 -- -- -- 0.002			Mid 2 (cf)		--	
Md:	29.74 lb/lb-mole	Nozzle ID:	24-2573-1 glass	Vacuum (in Hg):	15 -- -- -- 14			Mid 3 (cf)		--	
Ms:	27.27 lb/lb-mole	Nozzle Dn (in.):	0.351	Pitot Tube:	Pass -- -- -- Pass			Mid-Point Leak Check Vol (cf):		--	

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft ³)	Pitot Tube AP (in WC)	Gas Temperatures (°F)		Orifice Press. AH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)				
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap						
																Amb.	Amb.	Amb.	Amb.
A1	0.00	5.00	509.901	0.25	63	371	1.71	1.70	3	243	246	58	36	104.0	34.48				
1	5.00	10.00	513.540	0.28	64	376	1.90	1.90	3	248	257	46	40	96.6	36.60				
2	10.00	15.00	517.110	0.32	64	410	2.09	2.10	3	257	261	45	39	94.0	39.92				
2	15.00	20.00	520.750	0.34	64	460	2.10	2.10	3	258	260	47	41	105.1	42.31				
3	20.00	25.00	524.830	0.27	64	453	1.68	1.70	3	259	255	49	43	104.5	37.56				
3	25.00	30.00	528.460	0.26	65	451	1.62	1.65	3	258	256	51	40	102.0	36.82				
4	30.00	35.00	531.950	0.28	65	447	1.76	1.80	3	255	255	51	40	103.5	38.13				
4	35.00	40.00	535.630	0.32	66	451	2.00	2.00	3	260	253	53	41	99.8	40.85				
5	40.00	45.00	539.420	0.28	66	448	1.76	1.80	3	259	257	56	43	104.7	38.15				
5	45.00	50.00	543.150	0.25	66	442	1.58	1.60	3	258	249	58	46	103.6	35.93				
B1	50.00	55.00	546.650	0.12	66	369	0.83	0.83	3	250	255	60	51	100.2	23.86				
1	55.00	60.00	549.100	0.15	67	375	1.03	1.00	3	247	258	54	46	98.6	26.78				
2	60.00	65.00	551.790	0.20	67	400	1.33	1.35	3	248	255	47	37	104.1	31.38				
2	65.00	70.00	555.020	0.20	67	442	1.27	1.30	3	254	256	46	38	105.3	32.13				
3	70.00	75.00	558.210	0.20	67	437	1.27	1.30	3	254	256	47	34	103.4	32.05				
3	75.00	80.00	561.350	0.21	67	441	1.33	1.30	3	257	263	49	37	102.4	32.91				
4	80.00	85.00	564.530	0.25	67	438	1.59	1.60	3	258	256	49	41	107.0	35.85				
4	85.00	90.00	568.160	0.25	68	434	1.60	1.60	3	262	261	50	40	95.7	35.77				
5	90.00	95.00	571.420	0.24	68	433	1.54	1.55	3	258	252	51	46	100.6	35.03				
5	95.00	100.00	574.780	0.24	68	435	1.53	1.55	3	256	255	53	49	103.1	35.07				
C1	100.00	105.00	578.220	0.17	68	391	1.14	1.15	3	250	244	58	51	102.7	28.78				
1	105.00	110.00	581.180	0.17	68	381	1.16	1.15	3	256	253	62	54	101.4	28.61				
2	110.00	115.00	584.120	0.26	69	404	1.72	1.75	3	253	254	62	53	102.0	35.86				
2	115.00	120.00	587.730	0.24	69	440	1.53	1.55	3	251	246	53	37	96.3	35.16				
3	120.00	125.00	590.940	0.23	69	434	1.48	1.50	3	255	254	51	43	101.1	34.31				
3	125.00	130.00	594.250	0.24	69	434	1.54	1.55	3	263	259	52	42	102.3	35.05				
4	130.00	135.00	597.670	0.30	69	434	1.92	1.90	3	263	255	53	43	102.0	39.18				
4	135.00	140.00	601.480	0.30	69	435	1.92	1.95	3	258	250	55	49	101.3	39.20				
5	140.00	145.00	605.260	0.31	70	437	1.98	2.00	3	260	262	57	49	103.0	39.90				
5	145.00	150.00	609.170	0.31	70	438	1.98	2.00	3	267	251	61	51	102.8	39.92				
D1	150.00	155.00	613.070	0.17	70	384	1.16	1.20	3	247	258	63	53	106.1	28.66				
1	155.00	160.00	616.150	0.18	70	397	1.21	1.20	3	251	253	61	42	94.4	29.72				
2	160.00	165.00	618.950	0.23	70	438	1.47	1.50	3	250	261	61	43	101.5	34.38				
2	165.00	170.00	622.270	0.24	70	463	1.49	1.50	3	257	255	54	37	105.2	35.61				
3	170.00	175.00	625.740	0.34	70	468	2.10	2.10	3	251	249	51	44	102.1	42.50				
3	175.00	180.00	629.730	0.35	70	472	2.15	2.20	3	257	269	51	42	101.4	43.21				
4	180.00	185.00	633.740	0.37	70	470	2.28	2.30	3	266	242	53	42	100.7	44.38				
4	185.00	190.00	637.840	0.37	71	472	2.28	2.30	3	261	255	54	48	102.6	44.43				
5	190.00	195.00	642.020	0.37	71	473	2.28	2.30	3	267	254	55	46	101.7	44.45				
5	195.00	200.00	646.160	0.36	71	472	2.22	2.25	3	264	262	56	46	97.8	43.82				
E1	200.00	205.00	650.090	0.32	71	407	2.12	2.15	3	256	248	59	45	102.6	39.85				
1	205.00	210.00	654.120	0.33	72	413	2.18	2.20	3	246	255	53	39	101.7	40.61				
2	210.00	215.00	658.170	0.45	72	447	2.85	2.90	3	248	246	54	43	101.4	48.34				
2	215.00	220.00	662.790	0.45	72	479	2.76	2.80	3	258	252	55	46	101.4	49.18				
3	220.00	225.00	667.330	0.50	72	474	3.08	3.10	3	257	250	55	46	101.7	51.70				
3	225.00	230.00	672.140	0.46	73	470	2.85	2.90	3	262	251	56	49	102.7	49.49				
4	230.00	235.00	676.820	0.44	73	459	2.76	2.80	3	259	255	58	51	101.4	48.11				
4	235.00	240.00	681.370	0.42	73	455	2.64	2.70	3	271	257	59	50	101.3	46.90				
5	240.00	245.00	685.820	0.43	73	455	2.71	2.75	3	273	258	60	52	101.9	47.46				
5	245.00	250.00	690.350	0.45	74	457	2.83	2.85	3	270	260	62	55	98.9	48.60				
Final DGM:			694.850																

RESULTS	Run Time	Vm	AP	Tm	Ts	Max Vac	AH	%ISO	BWS	Y _{ga}
		250.0 min	184.949 ft ³	0.29 in. WC	68.7 °F	435.3 °F	3	1.885 in. WC	99.6	0.190

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/2024

Traverse Point	Time	O ₂ (%)	CO ₂ (%)
A-1	8:17	4.49	9.89
2	8:19	4.50	9.89
3	8:21	4.94	9.54
B-1	8:24	5.01	9.56
2	8:26	4.81	9.58
3	8:28	4.67	9.72
C-1	8:31	4.43	9.86
2	8:33	4.84	9.61
3	8:35	4.81	9.68
D-1	8:38	4.81	9.61
2	8:40	4.65	9.76
3	8:42	4.55	9.79
E-1	8:45	4.78	9.69
2	8:47	4.75	9.71
3	8:49	4.70	9.66
Average		4.7	9.7
Criteria Met		Single Point	Single Point

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573

Response Times, seconds			
Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Zero	60	60	45
Low	NA	NA	--
Mid	55	55	45
Average	57.5	57.5	45.0

Location BASF - Geismar, LA

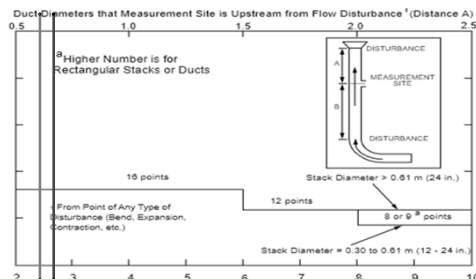
Source No. 3 Boiler EQT0161/UTL15

Project No. AST-2024-2573

Date: 05/06/24

Stack Parameters

Duct Orientation: Vertical
 Duct Design: Rectangular
 Distance from Far Wall to Outside of Port: 51.13 in
 Nipple Length: 3.13 in
 Depth of Duct: 48.00 in
 Width of Duct: 94.00 in
 Cross Sectional Area of Duct: 31.33 ft²
 Equivalent Diameter: 63.55 in
 No. of Test Ports: 5
 Number of Readings per Point: 1
 Distance A: 3.5 ft
 Distance A Duct Diameters: 0.7 (must be ≥ 0.5)
 Distance B: 12.8 ft
 Distance B Duct Diameters: 2.4 (must be ≥ 2)
 Actual Number of Traverse Points: 3
 Measurer (Initial and Date): CFS 5/6/24
 Reviewer (Initial and Date): JSL 5/6/24

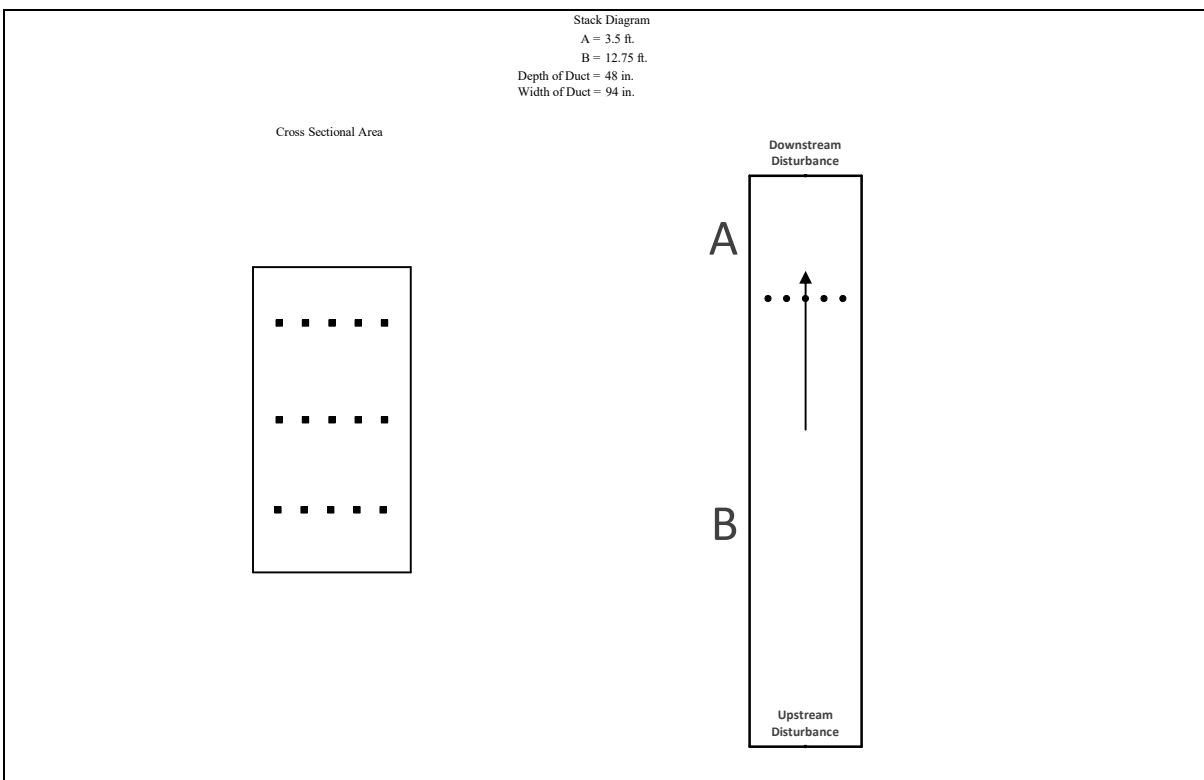


RECTANGULAR DUCT

LOCATION OF TRAVERSE POINTS											
Number of traverse points on a diameter											
	2	3	4	5	6	7	8	9	10	11	12
1	25.0	16.7	12.5	10.0	8.3	7.1	6.3	5.6	5.0	4.5	4.2
2	75.0	50.0	37.5	30.0	25.0	21.4	18.8	16.7	15.0	13.6	12.5
3	--	83.3	62.5	50.0	41.7	35.7	31.3	27.8	25.0	31.8	20.8
4	--	--	87.5	70.0	58.3	50.0	43.8	38.9	35.0	22.7	29.2
5	--	--	--	90.0	75.0	64.3	56.3	50.0	45.0	40.9	37.5
6	--	--	--	--	91.7	78.6	68.8	61.1	55.0	50.0	45.8
7	--	--	--	--	--	92.9	81.3	72.2	65.0	59.1	54.2
8	--	--	--	--	--	--	93.8	83.3	75.0	68.2	62.5
9	--	--	--	--	--	--	--	94.4	85.0	77.3	70.8
10	--	--	--	--	--	--	--	--	95.0	86.4	79.2
11	--	--	--	--	--	--	--	--	--	95.5	87.5
12	--	--	--	--	--	--	--	--	--	--	95.8

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

Traverse Point	% of Diameter	Distance from inside wall	Distance from outside of port
1	16.7	8.02	11.14
2	50.0	24.00	27.13
3	83.3	39.98	43.11
4	--	--	--
5	--	--	--
6	--	--	--
7	--	--	--
8	--	--	--
9	--	--	--
10	--	--	--
11	--	--	--
12	--	--	--



Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.68	10.51	0.20
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.09	0.03	0.00
Posttest System Zero Response	0.22	0.07	0.00
Average Zero Response (C ₀)	0.16	0.05	0.00
Pretest System Cal Response	11.25	11.25	12.54
Posttest System Cal Response	11.34	11.05	12.51
Average Cal Response (C _M)	11.30	11.15	12.53
Corrected Run Average (Corr)	4.47	10.37	NA
8:55	4.71	9.67	0.25
8:56	4.84	9.64	0.24
8:57	4.82	9.66	0.26
8:58	4.71	9.74	0.24
8:59	4.80	9.59	0.24
9:00	4.83	9.58	0.24
9:01	4.70	9.71	0.24
9:02	4.49	9.86	0.21
9:03	4.58	9.81	0.21
9:04	4.51	9.81	0.19
9:05	4.67	9.67	0.20
9:06	4.58	9.75	0.21
9:07	4.68	9.73	0.23
9:08	4.65	9.77	0.22
9:09	4.69	9.76	0.21
9:10	4.81	9.59	0.22
9:11	5.01	9.48	0.24
9:12	4.86	9.64	0.22
9:13	4.66	9.78	0.20
9:14	4.68	9.78	0.19
9:15	4.74	9.71	0.19
9:16	4.82	9.60	0.22
9:17	4.74	9.67	0.20
9:18	4.71	9.73	0.19
9:19	4.83	9.67	0.19
9:20	4.71	9.75	0.22
9:21	4.81	9.58	0.21
9:22	4.67	9.68	0.22
9:23	4.78	9.66	0.23
9:24	4.73	9.71	0.20
9:25	4.65	9.76	0.21
9:26	4.58	9.77	0.19
9:27	4.66	9.66	0.21
9:28	4.78	9.63	0.20
9:29	4.60	9.77	0.19
9:30	4.69	9.74	0.20
9:31	4.82	9.67	0.20
9:32	4.86	9.55	0.20
9:33	5.01	9.47	0.21
9:34	4.86	9.61	0.20
9:35	4.82	9.65	0.22
9:36	4.89	9.61	0.37
9:37	4.87	9.58	0.39
9:38	5.01	9.44	0.38
9:39	4.87	9.55	0.41
9:40	4.72	9.69	0.38
9:41	4.80	9.65	0.38
9:42	4.75	9.68	0.37
9:43	4.83	9.54	0.40
9:44	4.89	9.51	0.42

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.68	10.51	0.20
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.09	0.03	0.00
Posttest System Zero Response	0.22	0.07	0.00
Average Zero Response (C ₀)	0.16	0.05	0.00
Pretest System Cal Response	11.25	11.25	12.54
Posttest System Cal Response	11.34	11.05	12.51
Average Cal Response (C _M)	11.30	11.15	12.53
Corrected Run Average (Corr)	4.47	10.37	NA
9:45	4.79	9.62	0.38
9:46	4.76	9.66	0.39
9:47	4.69	9.71	0.38
9:48	4.85	9.57	0.39
9:49	4.86	9.52	0.41
9:50	4.83	9.57	0.40
9:51	4.69	9.69	0.39
9:52	4.66	9.71	0.11
9:53	4.59	9.76	0.23
9:54	4.58	9.68	0.01
9:55	4.68	9.63	
9:56	4.48	9.86	
9:57	4.15	10.19	
9:58	4.12	10.23	
9:59	3.93	10.33	
10:00	4.06	10.22	
10:01	4.01	10.31	
10:02	4.09	10.32	
10:03	4.29	10.25	
10:04	4.53	10.17	
10:05	4.77	9.99	
10:06	5.00	9.94	
10:07	5.39	9.87	
10:08	5.59	9.93	0.08
10:09	5.50	10.12	0.08
10:10	5.33	10.40	0.07
10:11	5.52	10.48	0.07
10:12	5.61	10.75	0.08
10:13	5.74	10.91	0.10
10:14	5.66	11.16	0.11
10:15	5.74	11.26	0.12
10:16	5.60	11.50	0.14
10:17	5.50	11.62	0.15
10:18	5.53	11.56	0.16
10:19	5.47	11.63	0.16
10:20	5.39	11.83	0.16
10:21	5.46	11.75	0.17
10:22	5.36	11.77	0.17
10:23	4.96	11.87	0.14
10:24	4.94	11.90	0.15
10:25	4.87	12.06	0.15
10:26	4.89	12.15	0.15
10:27	4.74	12.27	0.14
10:28	4.87	12.02	0.15
10:29	4.83	11.96	0.14
10:30	4.64	12.06	0.14
10:31	4.81	12.00	0.13
10:32	4.73	11.89	0.15
10:33	4.38	11.97	0.12
10:34	4.47	11.97	0.10

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.68	10.51	0.20
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.09	0.03	0.00
Posttest System Zero Response	0.22	0.07	0.00
Average Zero Response (C ₀)	0.16	0.05	0.00
Pretest System Cal Response	11.25	11.25	12.54
Posttest System Cal Response	11.34	11.05	12.51
Average Cal Response (C _M)	11.30	11.15	12.53
Corrected Run Average (Corr)	4.47	10.37	NA
10:35	4.34	12.12	0.10
10:36	4.30	12.13	0.12
10:37	4.38	12.03	0.13
10:38	4.59	11.90	0.13
10:39	4.78	11.81	0.15
10:40	4.68	11.95	0.13
10:41	4.73	11.92	0.13
10:42	4.60	11.73	0.12
10:43	4.39	11.81	0.11
10:44	4.54	11.72	0.13
10:45	4.62	11.68	0.13
10:46	4.52	11.75	0.12
10:47	4.46	11.69	0.12
10:48	4.31	11.78	0.11
10:49	4.32	11.76	0.12
10:50	4.53	11.71	0.14
10:51	4.76	11.59	0.15
10:52	4.71	11.60	0.15
10:53	4.62	11.72	0.14
10:54	4.73	11.76	0.17
10:55	4.84	11.79	0.16
10:56	5.04	11.67	0.18
10:57	4.91	11.81	0.19
10:58	4.96	11.78	0.19
10:59	4.80	11.93	0.18
11:00	4.86	11.95	0.19
11:01	4.89	11.74	0.19
11:02	4.51	11.98	0.18
11:03	4.70	11.88	0.18
11:04	4.41	12.10	0.16
11:05	4.56	11.98	0.15
11:06	4.61	11.77	0.16
11:07	4.54	11.72	0.16
11:08	4.38	11.73	
11:09	4.26	11.86	
11:10	4.43	11.70	
11:11	4.24	11.58	
11:12	4.50	11.45	
11:13	4.47	11.55	
11:14	4.62	11.58	
11:15	4.73	11.48	
11:16	4.43	11.63	
11:17	4.43	11.59	
11:18	4.42	11.66	
11:19	4.68	11.52	
11:20	4.77	11.25	0.12
11:21	4.40	11.39	0.10
11:22	4.43	11.28	0.10
11:23	4.24	11.45	0.10
11:24	4.36	11.40	0.12

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.68	10.51	0.20
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.09	0.03	0.00
Posttest System Zero Response	0.22	0.07	0.00
Average Zero Response (C ₀)	0.16	0.05	0.00
Pretest System Cal Response	11.25	11.25	12.54
Posttest System Cal Response	11.34	11.05	12.51
Average Cal Response (C _M)	11.30	11.15	12.53
Corrected Run Average (Corr)	4.47	10.37	NA
11:25	4.26	11.36	0.10
11:26	4.25	11.24	0.11
11:27	4.18	11.17	0.10
11:28	4.50	10.95	0.12
11:29	4.58	10.73	0.10
11:30	4.12	10.94	0.09
11:31	4.21	10.96	0.10
11:32	4.39	10.99	0.10
11:33	4.50	10.94	0.12
11:34	4.51	10.90	0.12
11:35	4.62	10.79	0.14
11:36	4.61	10.71	0.12
11:37	4.69	10.57	0.13
11:38	4.51	10.59	0.13
11:39	4.84	10.32	0.15
11:40	4.68	10.39	0.15
11:41	4.24	10.76	0.14
11:42	3.92	10.92	0.13
11:43	3.97	10.86	0.13
11:44	4.21	10.56	0.15
11:45	4.17	10.52	0.16
11:46	4.04	10.59	0.17
11:47	4.23	10.47	0.16
11:48	3.86	10.70	0.15
11:49	4.25	10.41	0.18
11:50	4.36	10.27	0.18
11:51	4.37	10.29	0.19
11:52	4.40	10.35	0.19
11:53	4.33	10.40	0.19
11:54	4.49	10.30	0.19
11:55	4.51	10.18	0.19
11:56	4.68	10.08	0.21
11:57	4.52	10.23	0.20
11:58	4.56	10.24	0.21
11:59	4.77	10.08	0.21
12:00	4.52	10.20	0.21
12:01	4.88	9.95	0.22
12:02	4.78	10.05	0.21
12:03	4.81	10.06	0.22
12:04	4.69	10.16	0.23
12:05	4.63	10.20	0.22
12:06	4.62	10.13	0.22
12:07	4.70	10.09	0.23
12:08	4.69	10.11	0.23
12:09	4.61	10.17	0.23
12:10	4.73	10.15	0.24
12:11	4.57	10.23	0.23
12:12	4.49	10.24	0.22
12:13	4.61	10.18	0.23
12:14	4.60	10.22	0.24

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.68	10.51	0.20
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.09	0.03	0.00
Posttest System Zero Response	0.22	0.07	0.00
Average Zero Response (C ₀)	0.16	0.05	0.00
Pretest System Cal Response	11.25	11.25	12.54
Posttest System Cal Response	11.34	11.05	12.51
Average Cal Response (C _M)	11.30	11.15	12.53
Corrected Run Average (Corr)	4.47	10.37	NA
12:15	4.61	10.24	0.23
12:16	4.54	10.30	0.23
12:17	4.71	10.08	0.23
12:18	4.75	10.06	0.24
12:19	4.77	10.10	0.24
12:20	4.70	10.16	
12:21	4.70	10.17	
12:22	4.74	10.10	
12:23	4.84	9.98	
12:24	4.63	10.15	
12:25	4.63	10.19	
12:26	4.52	10.25	
12:27	4.43	10.31	
12:28	4.60	10.14	
12:29	4.93	9.95	
12:30	4.86	10.03	
12:31	4.77	10.08	
12:32	4.70	10.12	0.20
12:33	4.57	10.17	0.20
12:34	4.84	9.98	0.22
12:35	4.86	9.98	0.21
12:36	4.64	10.14	0.21
12:37	4.56	10.22	0.21
12:38	4.43	10.32	0.19
12:39	4.59	10.16	0.20
12:40	4.78	10.04	0.22
12:41	4.65	10.16	0.20
12:42	4.67	10.17	0.20
12:43	4.61	10.22	0.21
12:44	4.55	10.20	0.20
12:45	4.78	10.01	0.22
12:46	4.70	10.10	0.22
12:47	4.63	10.20	0.22
12:48	4.62	10.22	0.21
12:49	4.58	10.23	0.20
12:50	4.69	10.07	0.21
12:51	4.80	10.02	0.22
12:52	4.83	10.04	0.23
12:53	4.81	10.07	0.24
12:54	4.75	10.10	0.23
12:55	4.70	10.12	0.23
12:56	4.75	10.04	0.22
12:57	4.77	10.05	0.22
12:58	4.67	10.15	0.23
12:59	4.66	10.15	0.22
13:00	4.68	10.14	0.23
13:01	4.73	10.04	0.24
13:02	4.98	9.86	0.25
13:03	4.85	9.98	0.27
13:04	4.84	10.02	0.26

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.68	10.51	0.20
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.09	0.03	0.00
Posttest System Zero Response	0.22	0.07	0.00
Average Zero Response (C ₀)	0.16	0.05	0.00
Pretest System Cal Response	11.25	11.25	12.54
Posttest System Cal Response	11.34	11.05	12.51
Average Cal Response (C _M)	11.30	11.15	12.53
Corrected Run Average (Corr)	4.47	10.37	NA
13:05	4.70	10.11	0.24
13:06	4.72	10.08	0.25
13:07	4.68	10.05	0.24
13:08	4.75	10.01	0.25
13:09	4.67	10.11	0.24
13:10	4.76	10.07	0.25
13:11	4.71	10.03	0.25
13:12	4.64	10.04	0.24
13:13	4.62	10.02	0.24
13:14	4.66	10.09	0.24
13:15	4.69	10.09	0.25
13:16	4.69	10.10	0.25
13:17	4.63	10.11	0.24
13:18	4.80	9.93	0.24
13:19	4.99	9.82	0.26
13:20	4.79	9.97	0.25
13:21	4.69	10.05	0.25
13:22	4.73	10.05	0.25
13:23	4.57	10.09	0.24
13:24	4.64	10.04	0.24
13:25	4.63	10.08	0.24
13:26	4.66	10.09	0.25

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
8:56	190.9	1.026	1.95	21.4
8:57	190.8	1.027	1.88	21.6
8:58	190.9	1.026	1.97	19.3
8:59	190.9	1.027	2.02	20.0
9:00	190.9	1.028	2.02	21.1
9:01	190.9	1.027	1.94	20.4
9:02	190.8	1.027	2.02	19.4
9:03	190.9	1.027	1.90	19.4
9:04	190.8	1.026	1.80	20.3
9:05	190.8	1.027	1.94	21.1
9:06	190.9	1.027	1.98	20.7
9:07	190.8	1.027	1.96	20.0
9:08	190.8	1.026	1.86	22.1
9:09	190.8	1.027	1.97	20.6
9:10	190.9	1.027	1.91	21.1
9:11	190.9	1.026	1.91	20.5
9:12	190.8	1.027	1.87	21.4
9:13	190.8	1.027	1.93	19.7
9:14	190.8	1.026	1.92	19.4
9:15	190.8	1.028	1.89	20.9
9:16	190.8	1.027	1.93	20.4
9:18	190.8	1.027	1.92	20.7
9:19	190.8	1.026	1.95	20.2
9:20	190.8	1.027	1.91	21.6
9:21	190.8	1.025	1.96	24.1
9:22	190.9	1.028	1.89	22.2
9:23	190.9	1.027	1.94	20.2
9:24	190.8	1.027	1.90	20.9
9:25	190.8	1.027	1.95	20.9
9:26	190.8	1.026	1.92	19.3
9:27	190.8	1.027	1.88	20.5
9:28	190.8	1.027	1.88	20.2
9:29	190.8	1.026	1.86	21.8
9:30	190.8	1.027	1.92	20.7
9:31	190.8	1.027	1.89	20.0
9:32	190.8	1.027	1.91	21.2
9:33	190.8	1.027	2.06	20.6
9:34	190.8	1.027	1.97	20.7
9:35	190.8	1.027	1.85	20.6
9:36	190.9	1.027	2.07	19.5
9:37	190.8	1.027	2.02	20.1
9:38	190.9	1.026	1.96	19.9
9:40	190.9	1.026	1.91	20.7
9:41	190.9	1.027	1.93	21.5
9:42	190.9	1.026	1.91	20.1
9:43	190.8	1.027	1.95	20.8
9:44	190.8	1.027	1.84	20.5
9:45	190.8	1.026	2.01	20.9
9:46	190.9	1.027	1.90	21.1
9:47	190.9	1.025	1.94	22.7
9:48	190.9	1.028	1.85	21.7
9:49	190.9	1.027	2.02	20.7
9:50	190.9	1.027	2.10	20.4
9:51	190.9	1.027	1.87	20.4
9:52	190.9	1.027	1.94	21.1
9:53	190.9	1.027	1.95	19.8
9:54	190.9	1.027	1.88	21.6
10:11	190.9	1.027	2.01	19.8

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
10:12	190.8	1.026	1.95	19.5
10:13	190.8	1.026	2.08	19.7
10:14	190.8	1.026	2.01	18.6
10:15	190.8	1.027	1.94	20.0
10:16	190.9	1.027	1.95	20.1
10:17	190.8	1.027	1.85	19.2
10:18	190.9	1.026	1.97	18.8
10:19	190.8	1.028	1.88	19.9
10:20	190.9	1.026	1.94	19.9
10:21	190.9	1.027	1.95	20.1
10:22	190.9	1.026	1.91	18.4
10:24	190.9	1.026	1.96	20.0
10:25	190.9	1.026	1.91	20.7
10:26	190.9	1.026	1.89	20.0
10:27	190.9	1.027	1.83	22.5
10:28	190.9	1.027	2.04	20.6
10:29	191.0	1.026	1.88	21.2
10:30	191.0	1.026	1.95	20.7
10:31	190.9	1.026	2.00	20.3
10:32	191.0	1.027	1.90	21.5
10:33	190.9	1.026	1.91	19.6
10:34	190.9	1.026	1.91	20.9
10:35	191.0	1.027	1.96	21.2
10:36	190.9	1.026	1.87	22.0
10:37	191.0	1.025	1.89	21.3
10:38	191.0	1.026	1.86	21.4
10:39	191.0	1.026	1.95	20.9
10:40	191.0	1.026	1.85	21.7
10:41	191.0	1.027	1.83	21.8
10:42	191.0	1.026	1.92	20.8
10:43	191.0	1.025	1.96	20.6
10:44	191.1	1.027	1.85	22.3
10:45	191.1	1.026	1.85	21.5
10:47	191.0	1.026	1.89	21.4
10:48	191.0	1.026	1.83	23.1
10:49	191.1	1.026	1.87	21.2
10:50	191.1	1.027	1.90	21.6
10:51	191.1	1.026	1.85	21.0
10:52	191.0	1.026	1.88	20.8
10:53	191.1	1.027	1.94	21.6
10:54	191.0	1.025	1.94	19.4
10:55	191.0	1.026	1.94	21.6
10:56	191.0	1.027	1.78	21.7
10:57	191.0	1.026	1.82	20.7
10:58	191.0	1.025	1.91	20.8
10:59	191.0	1.026	2.00	21.3
11:00	191.0	1.027	1.93	21.3
11:01	191.0	1.026	1.91	19.6
11:02	191.1	1.027	1.83	21.9
11:03	191.0	1.026	1.86	20.4
11:04	191.0	1.027	1.92	20.7
11:05	191.0	1.026	1.90	20.0
11:06	191.0	1.027	1.93	20.5
11:07	191.0	1.025	1.92	21.4
11:22	191.0	1.026	1.92	21.8
11:23	190.9	1.026	1.93	21.6
11:24	190.9	1.025	1.86	21.2
11:25	190.9	1.026	1.91	21.9

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
11:26	190.9	1.025	1.93	20.6
11:27	190.9	1.026	1.91	21.9
11:28	190.9	1.025	1.92	21.3
11:29	190.9	1.025	1.87	21.1
11:31	190.9	1.026	1.94	22.4
11:32	190.9	1.025	1.92	20.6
11:33	190.9	1.025	1.86	21.9
11:34	190.9	1.026	1.98	21.8
11:35	190.9	1.025	2.00	21.1
11:36	190.9	1.025	1.99	20.1
11:37	190.9	1.025	1.89	20.4
11:38	191.0	1.026	1.92	20.9
11:39	191.0	1.025	1.93	20.8
11:40	190.9	1.025	1.90	20.9
11:41	191.0	1.026	1.81	21.5
11:42	191.0	1.025	1.85	19.9
11:43	191.0	1.025	1.86	20.7
11:44	190.9	1.025	1.90	19.9
11:45	191.0	1.025	1.89	21.6
11:46	191.0	1.025	1.88	21.7
11:47	191.0	1.025	1.86	21.7
11:48	191.0	1.025	1.94	20.6
11:49	191.0	1.025	1.87	20.7
11:50	191.0	1.026	1.86	21.6
11:51	191.0	1.025	1.90	21.0
11:53	191.0	1.026	1.90	21.0
11:54	191.0	1.025	1.95	20.6
11:55	191.0	1.025	1.90	19.8
11:56	190.9	1.025	1.91	20.7
11:57	190.9	1.025	1.95	21.2
11:58	190.9	1.025	1.93	21.0
11:59	190.9	1.025	1.93	20.6
12:00	191.0	1.025	1.85	20.3
12:01	191.0	1.025	1.88	20.9
12:02	191.0	1.025	1.93	20.7
12:03	191.0	1.026	1.91	20.9
12:04	191.0	1.025	1.84	20.6
12:05	191.0	1.025	1.92	20.1
12:06	190.9	1.025	1.90	21.1
12:07	190.9	1.024	1.88	19.4
12:08	190.9	1.025	1.84	20.5
12:09	191.0	1.023	1.86	23.1
12:10	191.0	1.026	1.80	22.2
12:11	191.0	1.025	1.86	20.6
12:12	191.0	1.024	1.87	20.6
12:13	191.0	1.024	1.86	21.2
12:15	191.0	1.025	1.88	21.3
12:16	191.0	1.025	1.82	20.9
12:17	191.0	1.025	1.93	20.9
12:18	190.9	1.025	1.84	20.0
12:19	190.9	1.025	1.90	20.8
12:34	191.0	1.024	1.94	21.3
12:35	190.9	1.025	1.95	20.8
12:37	190.9	1.024	1.85	20.5
12:38	190.9	1.024	1.94	20.6
12:39	190.9	1.024	1.95	18.9
12:40	190.8	1.024	1.98	19.8
12:41	190.9	1.024	1.84	21.3

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
12:42	190.9	1.024	2.02	19.9
12:43	190.9	1.024	1.94	20.9
12:44	190.9	1.024	1.89	20.4
12:45	190.9	1.024	1.94	20.1
12:46	190.9	1.024	1.85	20.8
12:47	191.0	1.025	1.93	20.9
12:48	191.0	1.024	1.89	20.4
12:49	191.0	1.024	1.89	20.1
12:50	190.9	1.024	2.02	20.8
12:51	191.0	1.024	1.85	20.7
12:52	191.0	1.024	1.87	21.1
12:53	191.0	1.024	1.94	20.9
12:54	190.9	1.024	1.86	21.2
12:55	191.0	1.024	1.85	21.2
12:56	191.0	1.025	1.89	20.3
12:57	191.0	1.025	1.97	20.1
12:58	190.9	1.024	1.88	19.5
13:00	191.0	1.025	1.81	20.8
13:01	191.0	1.025	1.93	20.2
13:02	191.0	1.023	1.93	20.3
13:03	191.0	1.024	1.81	20.8
13:04	191.0	1.024	1.83	21.3
13:05	191.0	1.024	1.81	20.8
13:06	191.0	1.024	1.86	20.9
13:07	191.0	1.024	1.95	20.4
13:08	191.0	1.024	1.92	20.5
13:09	191.0	1.024	1.90	19.8
13:10	191.0	1.024	1.90	19.6
13:11	191.0	1.024	1.91	20.6
13:12	191.0	1.024	1.90	21.1
13:13	191.0	1.024	1.87	20.7
13:14	191.0	1.024	1.82	20.7
13:15	191.0	1.024	1.89	20.7
13:16	191.0	1.023	1.83	21.9
13:17	191.0	1.024	1.89	22.4
13:18	191.0	1.024	1.80	20.8
13:19	190.9	1.024	1.88	20.7
13:20	191.0	1.024	1.89	20.3
13:22	191.0	1.024	1.99	20.4
13:23	191.0	1.024	1.91	20.4
13:24	191.0	1.024	1.99	20.1
13:25	190.9	1.023	1.94	20.1
13:26	191.0	1.024	1.90	20.8

Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	190.9	1.026	1.91	20.8

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.64	11.02	0.10
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.22	0.07	0.00
Posttest System Zero Response	0.15	0.07	0.00
Average Zero Response (C ₀)	0.19	0.07	0.00
Pretest System Cal Response	11.34	11.05	12.51
Posttest System Cal Response	11.28	11.21	12.27
Average Cal Response (C _M)	11.31	11.13	12.39
Corrected Run Average (Corr)	4.41	10.89	NA
14:25	4.65	11.03	0.22
14:26	4.53	11.18	0.21
14:27	4.58	11.29	0.21
14:28	4.73	11.28	0.24
14:29	4.61	11.27	0.22
14:30	4.61	11.23	0.22
14:31	4.69	11.18	0.22
14:32	4.62	11.28	0.22
14:33	4.60	11.21	0.22
14:34	4.32	11.36	0.21
14:35	4.59	11.29	0.23
14:36	4.72	11.29	0.23
14:37	4.75	11.24	0.24
14:38	4.73	11.19	0.24
14:39	4.67	11.14	0.23
14:40	4.65	11.16	0.22
14:41	4.89	11.05	0.24
14:42	4.78	10.95	0.25
14:43	4.71	11.11	0.24
14:44	4.84	11.16	0.24
14:45	4.89	11.18	0.25
14:46	4.75	11.15	0.23
14:47	4.91	11.08	0.23
14:48	4.86	11.19	0.23
14:49	4.84	11.31	0.23
14:50	4.75	11.28	0.22
14:51	4.47	11.47	0.23
14:52	4.61	11.47	0.22
14:53	4.49	11.62	0.21
14:54	4.67	11.52	0.22
14:55	4.62	11.48	0.21
14:56	4.59	11.42	0.21
14:57	4.35	11.50	0.19
14:58	4.62	11.33	0.21
14:59	4.65	11.06	0.20
15:00	4.43	11.20	0.20
15:01	4.60	11.12	0.19
15:02	4.51	11.23	0.18
15:03	4.51	11.19	0.19
15:04	4.67	11.06	0.19
15:05	4.55	11.12	0.18
15:06	4.49	11.18	0.18
15:07	4.82	10.98	0.21
15:08	4.56	10.89	0.19
15:09	4.43	10.93	0.19
15:10	4.59	10.84	0.18
15:11	4.55	10.90	0.18
15:12	4.47	10.92	0.18
15:13	4.49	10.82	0.18
15:14	4.29	10.93	0.17

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.64	11.02	0.10
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.22	0.07	0.00
Posttest System Zero Response	0.15	0.07	0.00
Average Zero Response (C ₀)	0.19	0.07	0.00
Pretest System Cal Response	11.34	11.05	12.51
Posttest System Cal Response	11.28	11.21	12.27
Average Cal Response (C _M)	11.31	11.13	12.39
Corrected Run Average (Corr)	4.41	10.89	NA
15:15	4.13	11.06	0.16
15:16	4.50	10.83	0.18
15:17	4.39	10.79	0.16
15:18	4.37	10.84	0.17
15:19	4.51	10.76	0.18
15:20	4.82	10.60	0.20
15:21	4.76	10.66	0.21
15:22	4.55	10.78	0.18
15:23	4.54	10.79	0.18
15:24	4.62	10.73	0.18
15:25	4.79	10.61	
15:26	4.65	10.68	
15:27	4.70	10.74	
15:28	4.63	10.93	
15:29	4.87	10.87	
15:30	4.89	10.81	
15:31	4.75	10.95	
15:32	4.72	11.03	
15:33	4.79	11.11	
15:34	4.75	11.02	
15:35	4.44	11.25	
15:36	4.88	11.09	
15:37	4.95	11.13	
15:38	5.03	11.10	0.15
15:39	4.99	11.12	0.15
15:40	4.93	11.14	0.13
15:41	4.83	11.27	0.14
15:42	4.99	11.18	0.13
15:43	4.75	11.22	0.11
15:44	4.76	11.31	0.13
15:45	4.83	11.35	0.13
15:46	5.05	11.20	0.11
15:47	5.02	11.13	0.12
15:48	4.89	11.19	0.13
15:49	4.83	11.24	0.11
15:50	4.79	11.28	0.11
15:51	4.81	11.16	0.10
15:52	4.64	11.17	0.10
15:53	4.78	11.11	0.11
15:54	4.71	11.19	0.12
15:55	4.68	11.23	0.12
15:56	4.81	11.10	0.11
15:57	4.72	11.13	0.11
15:58	4.49	11.28	0.10
15:59	4.93	10.99	0.10
16:00	4.72	10.98	0.11
16:01	4.52	11.10	0.10
16:02	4.66	11.04	0.10
16:03	4.70	11.00	0.11
16:04	4.70	10.99	0.10

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.64	11.02	0.10
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.22	0.07	0.00
Posttest System Zero Response	0.15	0.07	0.00
Average Zero Response (C ₀)	0.19	0.07	0.00
Pretest System Cal Response	11.34	11.05	12.51
Posttest System Cal Response	11.28	11.21	12.27
Average Cal Response (C _M)	11.31	11.13	12.39
Corrected Run Average (Corr)	4.41	10.89	NA
16:05	4.70	10.98	0.10
16:06	4.72	10.96	0.11
16:07	4.59	11.05	0.12
16:08	4.75	10.94	0.11
16:09	4.71	10.76	0.12
16:10	4.44	11.01	0.10
16:11	4.55	11.07	0.11
16:12	4.74	10.99	0.12
16:13	4.66	11.05	0.12
16:14	4.68	11.00	0.12
16:15	4.82	10.90	0.13
16:16	4.78	11.01	0.13
16:17	4.89	10.96	0.13
16:18	4.60	11.06	0.11
16:19	4.55	11.16	0.11
16:20	4.70	11.14	0.13
16:21	4.79	11.12	0.13
16:22	4.80	11.08	0.14
16:23	4.76	11.09	0.13
16:24	4.83	11.04	0.14
16:25	5.05	10.94	0.13
16:26	5.09	10.81	0.15
16:27	4.70	11.08	0.13
16:28	4.80	11.11	0.14
16:29	4.79	11.17	0.12
16:30	4.75	11.14	0.12
16:31	4.66	11.16	0.11
16:32	4.41	11.31	0.10
16:33	4.39	11.34	0.10
16:34	4.66	11.19	0.10
16:35	4.57	11.05	0.11
16:36	4.63	10.97	0.12
16:37	4.67	10.99	0.12
16:38	4.66	11.04	
16:39	4.79	10.90	
16:40	4.74	10.91	
16:41	4.63	10.92	
16:42	4.64	10.95	
16:43	4.75	10.89	
16:44	4.57	10.91	
16:45	4.58	10.95	
16:46	4.64	10.99	
16:47	4.69	10.98	
16:48	4.64	10.97	
16:49	4.37	11.20	
16:50	4.34	11.28	
16:51	4.31	11.38	
16:52	4.35	11.25	
16:53	4.12	11.37	
16:54	4.23	11.40	

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.64	11.02	0.10
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.22	0.07	0.00
Posttest System Zero Response	0.15	0.07	0.00
Average Zero Response (C ₀)	0.19	0.07	0.00
Pretest System Cal Response	11.34	11.05	12.51
Posttest System Cal Response	11.28	11.21	12.27
Average Cal Response (C _M)	11.31	11.13	12.39
Corrected Run Average (Corr)	4.41	10.89	NA
16:55	4.16	11.60	
16:56	4.26	11.57	
16:57	4.45	11.43	
16:58	4.62	11.24	
16:59	4.59	11.25	
17:00	4.73	11.24	
17:01	4.65	11.13	
17:02	4.60	11.19	
17:03	4.81	11.08	
17:04	4.94	10.98	
17:05	4.94	10.91	
17:06	4.84	10.95	
17:07	4.78	10.95	
17:08	4.74	10.98	
17:09	4.93	10.83	
17:10	4.74	10.79	
17:11	4.68	10.91	
17:12	4.63	10.99	
17:13	4.60	11.02	0.03
17:14	4.50	10.98	0.04
17:15	4.62	10.86	0.03
17:16	4.58	10.91	0.02
17:17	4.46	11.06	0.01
17:18	4.65	10.93	0.01
17:19	4.40	11.01	0.01
17:20	4.67	10.82	0.03
17:21	4.69	10.89	0.04
17:22	4.75	10.94	0.02
17:23	4.64	10.99	0.02
17:24	4.76	10.97	0.03
17:25	4.80	10.95	0.03
17:26	5.00	10.91	0.03
17:27	4.87	10.90	0.03
17:28	4.62	11.08	0.01
17:29	4.80	11.00	0.01
17:30	4.75	11.07	0.01
17:31	4.56	11.14	0.01
17:32	4.56	11.09	0.02
17:33	4.46	11.14	0.03
17:34	4.39	11.19	0.01
17:35	4.59	11.13	0.01
17:36	4.49	10.95	0.01
17:37	4.41	10.96	0.01
17:38	4.58	10.88	0.01
17:39	4.60	10.92	0.01
17:40	4.56	10.97	0.00
17:41	4.52	10.98	0.00
17:42	4.60	10.88	0.00
17:43	4.56	10.91	0.00
17:44	4.70	10.88	0.00

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmw Valid
Uncorrected Run Average (C _{obs})	4.64	11.02	0.10
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.22	0.07	0.00
Posttest System Zero Response	0.15	0.07	0.00
Average Zero Response (C ₀)	0.19	0.07	0.00
Pretest System Cal Response	11.34	11.05	12.51
Posttest System Cal Response	11.28	11.21	12.27
Average Cal Response (C _M)	11.31	11.13	12.39
Corrected Run Average (Corr)	4.41	10.89	NA
17:45	4.52	10.86	0.00
17:46	4.48	10.90	0.00
17:47	4.56	10.84	0.00
17:48	4.77	10.73	0.01
17:49	4.76	10.73	0.01
17:50	4.52	10.88	0.00
17:51	4.59	10.82	0.00
17:52	4.48	10.91	0.00
17:53	4.71	10.76	0.00
17:54	4.66	10.70	0.00
17:55	4.57	10.85	0.00
17:56	4.64	10.93	0.00
17:57	4.74	10.93	0.00
17:58	4.73	10.86	0.00
17:59	4.79	10.77	0.00
18:00	4.74	10.82	0.00
18:01	4.63	10.97	0.00
18:02	4.77	10.86	0.00
18:03	4.55	10.92	0.00
18:04	4.54	10.87	0.00
18:05	4.66	10.83	0.00
18:06	4.76	10.82	0.00
18:07	4.65	10.86	0.00
18:08	4.52	10.94	0.00
18:09	4.57	10.88	0.00
18:10	4.65	10.83	0.00
18:11	4.72	10.70	0.00
18:12	4.56	10.74	0.00
18:13	4.53	10.82	
18:14	4.47	10.88	
18:15	4.67	10.72	
18:16	4.59	10.73	
18:17	4.40	10.85	
18:18	4.43	10.84	
18:19	4.42	10.90	
18:20	4.35	10.87	
18:21	4.44	10.82	
18:22	4.68	10.75	
18:23	4.56	10.93	
18:24	4.63	10.95	
18:25	4.62	10.96	
18:26	4.64	10.93	
18:27	4.67	10.95	
18:28	4.86	10.92	
18:29	4.76	10.85	
18:30	4.54	10.99	
18:31	4.65	10.91	
18:32	4.90	10.78	
18:33	4.81	10.83	
18:34	4.57	10.97	

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.64	11.02	0.10
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.22	0.07	0.00
Posttest System Zero Response	0.15	0.07	0.00
Average Zero Response (C ₀)	0.19	0.07	0.00
Pretest System Cal Response	11.34	11.05	12.51
Posttest System Cal Response	11.28	11.21	12.27
Average Cal Response (C _M)	11.31	11.13	12.39
Corrected Run Average (Corr)	4.41	10.89	NA
18:35	4.44	11.01	
18:36	4.52	10.95	
18:37	4.65	10.80	
18:38	4.70	10.63	0.00
18:39	4.44	10.86	0.00
18:40	4.51	10.86	0.00
18:41	4.51	10.88	0.00
18:42	4.42	10.82	0.00
18:43	4.31	10.88	0.00
18:44	4.39	10.83	0.00
18:45	4.21	11.00	0.00
18:46	4.43	10.92	0.00
18:47	4.34	10.88	0.00
18:48	4.39	10.81	0.00
18:49	4.52	10.80	0.00
18:50	4.62	10.84	0.00
18:51	4.64	10.87	0.00
18:52	4.59	10.94	0.00
18:53	4.72	10.85	0.00
18:54	4.64	10.95	0.00
18:55	4.75	10.87	0.00

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
14:25	191.1	1.022	1.86	21.1
14:26	191.1	1.022	1.95	22.3
14:27	191.0	1.022	2.02	22.2
14:28	191.1	1.022	1.97	21.4
14:29	191.1	1.023	1.95	21.9
14:30	191.0	1.022	2.00	21.6
14:31	191.0	1.022	1.93	22.5
14:32	191.0	1.022	1.73	21.8
14:33	190.9	1.023	1.38	21.8
14:34	191.0	1.022	1.42	21.1
14:35	190.9	1.022	1.70	21.2
14:36	191.0	1.023	1.73	22.1
14:37	191.0	1.022	1.90	21.1
14:38	191.0	1.022	1.90	21.9
14:39	191.1	1.022	1.89	22.4
14:40	191.1	1.022	1.91	22.6
14:41	191.1	1.021	2.04	20.1
14:42	191.0	1.022	1.95	21.8
14:43	191.1	1.022	2.03	22.0
14:45	191.0	1.022	1.93	21.3
14:46	191.1	1.022	2.00	20.6
14:47	191.0	1.022	1.94	21.4
14:48	191.1	1.021	2.08	20.2
14:49	191.0	1.022	2.01	21.5
14:50	191.1	1.022	1.90	22.7
14:51	191.1	1.022	1.93	20.6
14:52	191.1	1.021	2.04	21.5
14:53	191.0	1.021	1.95	21.9
14:54	191.1	1.022	1.92	22.0
14:55	191.0	1.021	1.93	21.5
14:56	191.0	1.022	1.93	22.3
14:57	191.1	1.021	1.93	21.8
14:58	191.1	1.021	1.95	21.7
14:59	191.1	1.021	2.00	22.1
15:00	191.1	1.021	1.91	22.0
15:01	191.1	1.021	1.86	22.6
15:02	191.1	1.022	1.99	22.9
15:03	191.1	1.022	1.95	20.7
15:04	191.0	1.021	1.91	21.4
15:05	191.0	1.021	2.00	21.3
15:07	191.1	1.021	2.01	21.7
15:08	191.1	1.021	2.02	21.6
15:09	191.1	1.023	1.92	22.9
15:10	191.1	1.022	1.89	22.6
15:11	191.1	1.021	2.01	21.2
15:12	191.1	1.021	1.92	21.1
15:13	191.0	1.022	1.90	21.9
15:14	191.1	1.021	1.89	22.4
15:15	191.1	1.021	1.84	22.4
15:16	191.1	1.021	2.05	21.3
15:17	191.0	1.021	1.98	21.5
15:18	191.1	1.021	1.88	22.1
15:19	191.0	1.021	1.93	21.3
15:20	191.0	1.021	1.93	20.8
15:21	191.0	1.018	1.94	24.3
15:22	191.2	1.023	1.72	24.4
15:23	191.1	1.021	1.95	22.5
15:24	191.1	1.022	1.93	22.2

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
15:40	191.0	1.021	2.05	22.4
15:41	191.0	1.020	2.13	20.4
15:42	191.0	1.020	2.06	21.3
15:43	191.0	1.022	1.90	21.5
15:44	191.0	1.021	2.02	21.6
15:45	191.0	1.020	1.95	20.9
15:46	191.0	1.020	1.98	20.9
15:47	191.0	1.021	1.97	21.7
15:48	191.0	1.021	1.98	21.6
15:49	191.0	1.021	1.96	21.8
15:51	191.0	1.021	1.82	22.2
15:52	191.0	1.021	1.85	22.7
15:53	191.0	1.021	1.81	21.9
15:54	191.1	1.020	1.96	21.3
15:55	191.0	1.021	1.97	21.7
15:56	191.0	1.021	2.09	20.9
15:57	191.0	1.021	1.96	21.7
15:58	191.0	1.020	2.01	21.7
15:59	191.1	1.021	2.00	21.4
16:00	191.0	1.021	1.99	21.0
16:01	191.0	1.020	2.02	21.1
16:02	191.0	1.020	1.93	21.9
16:03	191.1	1.020	1.93	22.3
16:04	191.0	1.021	2.02	21.6
16:05	191.1	1.021	1.86	21.9
16:06	191.0	1.021	1.93	21.5
16:07	191.1	1.021	2.00	20.8
16:08	191.0	1.020	2.00	22.0
16:09	191.1	1.021	1.91	22.7
16:10	191.1	1.021	1.97	21.6
16:11	191.1	1.020	2.02	21.4
16:12	191.1	1.020	1.94	21.3
16:14	191.1	1.021	1.89	22.5
16:15	191.0	1.020	2.01	20.5
16:16	191.0	1.020	1.94	21.4
16:17	191.1	1.021	1.98	22.2
16:18	191.1	1.020	2.03	21.5
16:19	191.1	1.021	1.89	21.7
16:20	191.0	1.020	2.04	21.6
16:21	191.0	1.020	1.88	21.6
16:22	191.0	1.021	1.88	22.9
16:23	191.0	1.020	1.86	22.0
16:24	191.1	1.020	1.89	21.4
16:25	191.0	1.020	1.90	22.3
16:26	191.1	1.020	1.92	21.4
16:27	191.1	1.020	1.97	22.0
16:28	191.0	1.020	1.94	21.1
16:29	191.1	1.021	1.89	21.6
16:30	191.1	1.020	2.00	21.1
16:31	191.0	1.020	1.97	21.1
16:32	191.1	1.021	1.89	22.5
16:33	191.1	1.020	1.98	21.6
16:34	191.0	1.021	1.96	21.1
16:36	191.1	1.020	2.01	20.9
16:37	191.1	1.020	1.91	21.5
17:15	191.1	1.021	2.32	20.6
17:16	191.1	1.019	2.36	20.0
17:17	191.1	1.022	2.38	21.4

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
17:18	191.1	1.020	2.42	19.9
17:20	191.1	1.021	2.26	21.3
17:21	191.1	1.021	2.27	21.3
17:22	191.1	1.021	2.27	20.8
17:23	191.1	1.021	2.37	21.4
17:24	191.1	1.020	2.22	21.2
17:25	191.1	1.021	2.36	21.1
17:26	191.1	1.020	2.17	21.5
17:27	191.1	1.021	2.29	21.7
17:28	191.1	1.021	2.23	21.1
17:29	191.1	1.020	2.29	21.2
17:30	191.1	1.020	2.30	20.6
17:31	191.1	1.021	2.29	21.5
17:32	191.1	1.020	2.38	20.9
17:33	191.1	1.021	2.33	21.3
17:34	191.2	1.020	2.44	20.8
17:35	191.1	1.021	2.30	21.4
17:36	191.2	1.021	2.35	21.2
17:37	191.1	1.020	2.33	20.7
17:38	191.1	1.020	2.22	21.4
17:39	191.1	1.020	2.25	21.5
17:41	191.1	1.020	2.39	20.5
17:42	191.1	1.021	2.28	21.8
17:43	191.2	1.020	2.28	21.4
17:44	191.1	1.021	2.27	21.2
17:45	191.1	1.021	2.34	20.8
17:46	191.1	1.020	2.41	20.7
17:47	191.1	1.020	2.14	20.7
17:48	191.1	1.020	2.08	21.5
17:49	191.1	1.021	1.98	21.8
17:50	191.1	1.021	2.05	21.0
17:51	191.1	1.020	2.08	20.9
17:52	191.1	1.020	2.12	20.9
17:53	191.1	1.021	2.04	21.3
17:54	191.1	1.021	1.99	21.9
17:55	191.1	1.021	2.07	21.5
17:56	191.1	1.021	2.06	21.0
17:57	191.1	1.021	2.00	21.0
17:58	191.1	1.019	2.12	20.3
17:59	191.1	1.021	2.01	22.8
18:00	191.1	1.021	2.07	21.4
18:01	191.1	1.021	2.10	21.2
18:03	191.1	1.020	2.08	21.2
18:04	191.2	1.021	2.05	21.5
18:05	191.1	1.020	2.02	21.0
18:06	191.1	1.020	2.13	20.3
18:07	191.1	1.020	2.02	21.3
18:08	191.1	1.020	2.07	21.4
18:09	191.1	1.020	2.11	21.2
18:10	191.1	1.021	2.22	21.1
18:11	191.1	1.021	1.95	22.5
18:12	191.1	1.020	2.17	19.6
18:39	191.1	1.021	2.17	21.1
18:40	191.0	1.020	2.18	19.1
18:41	191.0	1.021	2.14	19.8
18:42	191.1	1.021	2.11	20.6
18:43	191.1	1.021	2.15	21.5
18:44	191.1	1.021	2.07	20.4

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
18:45	191.1	1.020	2.10	21.2
18:47	191.1	1.020	2.16	20.4
18:48	191.1	1.020	2.16	20.4
18:49	191.1	1.021	2.06	20.7
18:50	191.1	1.020	2.07	20.9
18:51	191.1	1.021	2.10	20.6
18:52	191.1	1.020	2.15	20.4
18:53	191.1	1.021	2.12	19.6
18:54	191.1	1.021	2.04	20.4
18:55	191.1	1.021	2.01	21.4
Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	191.1	1.021	2.03	21.4

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.55	10.98	0.15
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.04	0.06	0.00
Posttest System Zero Response	0.10	0.06	0.07
Average Zero Response (C ₀)	0.07	0.06	0.04
Pretest System Cal Response	11.24	11.26	12.53
Posttest System Cal Response	11.23	10.95	12.54
Average Cal Response (C _M)	11.24	11.11	12.54
Corrected Run Average (Corr)	4.42	10.88	NA
8:25	4.40	10.57	0.31
8:26	4.41	10.59	0.33
8:27	4.48	10.48	0.33
8:28	4.50	10.45	0.33
8:29	4.54	10.45	0.33
8:30	4.48	10.52	0.32
8:31	4.34	10.62	0.31
8:32	4.42	10.53	0.32
8:33	4.54	10.39	0.32
8:34	4.67	10.34	0.32
8:35	4.52	10.48	0.31
8:36	4.46	10.54	0.31
8:37	4.39	10.58	0.31
8:38	4.43	10.47	0.31
8:39	4.56	10.40	0.32
8:40	4.46	10.52	0.31
8:41	4.27	10.65	0.31
8:42	4.41	10.57	0.31
8:43	4.32	10.63	0.31
8:44	4.33	10.59	0.33
8:45	4.21	10.69	0.31
8:46	4.41	10.60	0.33
8:47	4.45	10.60	0.33
8:48	4.22	10.83	0.33
8:49	3.26	11.60	0.29
8:50	4.74	10.38	0.33
8:51	5.69	9.67	0.32
8:52	5.48	9.88	0.32
8:53	5.16	10.15	0.30
8:54	4.78	10.44	0.29
8:55	4.88	10.41	0.28
8:56	4.68	10.64	0.27
8:57	4.46	10.89	0.25
8:58	4.37	11.03	0.22
8:59	4.24	11.16	0.19
9:00	4.14	11.23	0.17
9:01	4.30	11.16	0.15
9:02	4.44	11.11	0.13
9:03	4.40	11.19	0.10
9:04	4.27	11.31	0.09
9:05	4.30	11.28	0.07
9:06	4.56	11.07	0.06
9:07	4.46	11.13	0.04
9:08	4.45	11.17	0.04
9:09	4.44	11.22	0.03
9:10	4.29	11.35	0.01
9:11	4.43	11.17	0.01
9:12	4.56	11.08	0.01
9:13	4.44	11.17	0.00
9:14	4.48	11.17	0.01

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.55	10.98	0.15
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.04	0.06	0.00
Posttest System Zero Response	0.10	0.06	0.07
Average Zero Response (C ₀)	0.07	0.06	0.04
Pretest System Cal Response	11.24	11.26	12.53
Posttest System Cal Response	11.23	10.95	12.54
Average Cal Response (C _M)	11.24	11.11	12.54
Corrected Run Average (Corr)	4.42	10.88	NA
9:15	4.52	11.16	0.00
9:16	4.29	11.29	0.00
9:17	4.43	11.17	0.00
9:18	4.61	11.07	0.00
9:19	4.66	11.05	0.00
9:20	4.48	11.19	0.00
9:21	4.51	11.20	0.00
9:22	4.64	11.05	0.00
9:23	4.80	10.93	0.00
9:24	4.60	11.04	0.00
9:25	4.66	11.02	
9:26	4.65	11.09	
9:27	4.69	11.07	
9:28	4.70	11.00	
9:29	4.68	11.02	
9:30	4.67	11.03	
9:31	4.67	11.04	
9:32	4.61	11.10	
9:33	4.43	11.18	
9:34	4.56	11.10	
9:35	4.64	11.05	0.04
9:36	4.49	11.16	0.04
9:37	4.45	11.20	0.04
9:38	4.69	11.05	0.04
9:39	4.54	11.10	0.05
9:40	4.65	11.05	0.07
9:41	4.60	11.06	0.07
9:42	4.56	11.09	0.04
9:43	4.56	11.12	0.04
9:44	4.40	11.23	0.05
9:45	4.66	11.04	0.07
9:46	4.57	11.10	0.06
9:47	4.59	11.07	0.06
9:48	4.63	11.05	0.05
9:49	4.52	11.14	0.07
9:50	4.54	11.08	0.07
9:51	4.50	11.13	0.07
9:52	4.47	11.16	0.07
9:53	4.47	11.17	0.07
9:54	4.57	11.10	0.07
9:55	4.46	11.17	0.07
9:56	4.44	11.18	0.07
9:57	4.48	11.15	0.07
9:58	4.72	10.98	0.07
9:59	4.55	11.08	0.07
10:00	4.61	11.07	0.07
10:01	4.51	11.12	0.07
10:02	4.49	11.14	0.07
10:03	4.54	11.10	0.07
10:04	4.56	11.09	0.07

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.55	10.98	0.15
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.04	0.06	0.00
Posttest System Zero Response	0.10	0.06	0.07
Average Zero Response (C ₀)	0.07	0.06	0.04
Pretest System Cal Response	11.24	11.26	12.53
Posttest System Cal Response	11.23	10.95	12.54
Average Cal Response (C _M)	11.24	11.11	12.54
Corrected Run Average (Corr)	4.42	10.88	NA
10:05	4.55	11.10	0.07
10:06	4.53	11.11	0.07
10:07	4.58	11.05	0.07
10:08	4.37	11.19	0.08
10:09	4.63	11.04	0.09
10:10	4.59	11.07	0.09
10:11	4.65	11.04	0.09
10:12	4.60	11.03	0.09
10:13	4.62	11.04	0.10
10:14	4.52	11.11	0.10
10:15	4.76	10.94	0.10
10:16	4.56	11.07	0.10
10:17	4.51	11.10	0.10
10:18	4.63	11.03	0.10
10:19	4.73	10.98	0.10
10:20	4.65	11.02	0.10
10:21	4.53	11.11	0.10
10:22	4.37	11.22	0.10
10:23	4.44	11.15	0.10
10:24	4.56	11.06	0.10
10:25	4.49	11.10	0.10
10:26	4.54	11.10	0.10
10:27	4.49	11.16	0.10
10:28	4.47	11.14	0.10
10:29	4.56	11.06	0.10
10:30	4.53	11.09	0.10
10:31	4.44	11.16	0.12
10:32	4.53	11.12	0.11
10:33	4.50	11.12	0.11
10:34	4.63	11.00	0.11
10:35	4.83	10.89	
10:36	4.69	11.00	
10:37	4.51	11.11	
10:38	4.58	11.07	
10:39	4.42	11.15	
10:40	4.56	11.06	
10:41	4.65	10.98	
10:42	4.33	11.19	
10:43	4.68	11.00	0.12
10:44	4.64	11.04	0.12
10:45	4.56	11.04	0.10
10:46	4.60	11.01	0.11
10:47	4.57	11.04	0.13
10:48	4.54	11.06	0.11
10:49	4.58	11.06	0.11
10:50	4.60	11.00	0.11
10:51	4.62	10.98	0.12
10:52	4.63	10.99	0.12
10:53	4.60	11.02	0.13
10:54	4.52	11.09	0.13

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.55	10.98	0.15
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.04	0.06	0.00
Posttest System Zero Response	0.10	0.06	0.07
Average Zero Response (C ₀)	0.07	0.06	0.04
Pretest System Cal Response	11.24	11.26	12.53
Posttest System Cal Response	11.23	10.95	12.54
Average Cal Response (C _M)	11.24	11.11	12.54
Corrected Run Average (Corr)	4.42	10.88	NA
10:55	4.34	11.22	0.11
10:56	4.40	11.13	0.12
10:57	4.48	11.09	0.13
10:58	4.67	10.95	0.13
10:59	4.59	11.00	0.13
11:00	4.48	11.12	0.13
11:01	4.44	11.13	0.13
11:02	4.48	11.10	0.13
11:03	4.65	10.98	0.13
11:04	4.61	10.99	0.14
11:05	4.57	11.04	0.13
11:06	4.52	11.09	0.13
11:07	4.52	11.02	0.13
11:08	4.61	10.97	0.13
11:09	4.62	10.99	0.13
11:10	4.62	11.00	0.13
11:11	4.57	11.06	0.13
11:12	4.45	11.10	0.13
11:13	4.63	10.98	0.13
11:14	4.50	11.06	0.13
11:15	4.57	11.03	0.13
11:16	4.52	11.05	0.14
11:17	4.52	11.07	0.14
11:18	4.66	10.96	0.14
11:19	4.70	10.94	0.15
11:20	4.58	11.00	0.15
11:21	4.60	11.00	0.15
11:22	4.45	11.12	0.15
11:23	4.39	11.14	0.14
11:24	4.54	11.02	0.15
11:25	4.58	10.99	0.15
11:26	4.64	10.98	0.15
11:27	4.59	11.03	0.15
11:28	4.62	11.01	0.15
11:29	4.72	10.90	0.15
11:30	4.72	10.90	0.15
11:31	4.68	10.92	0.15
11:32	4.66	10.96	0.16
11:33	4.67	10.96	0.16
11:34	4.50	11.04	0.15
11:35	4.66	10.95	0.15
11:36	4.59	11.01	0.15
11:37	4.50	11.06	0.16
11:38	4.43	11.12	0.16
11:39	4.47	11.10	0.16
11:40	4.48	11.05	0.18
11:41	4.69	10.92	0.17
11:42	4.53	11.01	0.18
11:43	4.54	11.04	
11:44	4.39	11.17	

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmww Valid
Uncorrected Run Average (C _{obs})	4.55	10.98	0.15
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.04	0.06	0.00
Posttest System Zero Response	0.10	0.06	0.07
Average Zero Response (C ₀)	0.07	0.06	0.04
Pretest System Cal Response	11.24	11.26	12.53
Posttest System Cal Response	11.23	10.95	12.54
Average Cal Response (C _M)	11.24	11.11	12.54
Corrected Run Average (Corr)	4.42	10.88	NA
11:45	4.44	11.09	
11:46	4.76	10.87	
11:47	4.74	10.89	
11:48	4.71	10.92	
11:49	4.66	10.98	
11:50	4.59	11.00	
11:51	4.54	10.98	
11:52	4.64	10.95	
11:53	4.49	11.06	
11:54	4.46	11.09	
11:55	4.42	11.13	
11:56	4.44	11.07	
11:57	4.61	10.96	
11:58	4.72	10.88	0.15
11:59	4.59	10.96	0.15
12:00	4.59	11.00	0.16
12:01	4.46	11.09	0.15
12:02	4.44	11.07	0.15
12:03	4.51	11.02	0.18
12:04	4.52	11.02	0.16
12:05	4.69	10.94	0.18
12:06	4.61	11.01	0.17
12:07	4.56	10.97	0.15
12:08	4.44	11.05	0.15
12:09	4.32	11.16	0.15
12:10	4.34	11.17	0.15
12:11	4.42	11.14	0.17
12:12	4.40	11.13	0.18
12:13	4.57	10.96	0.18
12:14	4.50	11.01	0.18
12:15	4.70	10.90	0.20
12:16	4.72	10.89	0.21
12:17	4.70	10.92	0.19
12:18	4.63	10.93	0.21
12:19	4.72	10.88	0.21
12:20	4.68	10.89	0.21
12:21	4.62	10.94	0.21
12:22	4.50	11.04	0.21
12:23	4.45	11.08	0.20
12:24	4.56	10.94	0.20
12:25	4.65	10.88	0.21
12:26	4.62	10.93	0.21
12:27	4.54	11.01	0.21
12:28	4.52	11.05	0.21
12:29	4.46	11.03	0.21
12:30	4.57	10.95	0.21
12:31	4.55	10.96	0.21
12:32	4.53	11.00	0.21
12:33	4.59	10.96	0.21
12:34	4.57	10.99	0.22

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmw Valid
Uncorrected Run Average (C _{obs})	4.55	10.98	0.15
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.04	0.06	0.00
Posttest System Zero Response	0.10	0.06	0.07
Average Zero Response (C ₀)	0.07	0.06	0.04
Pretest System Cal Response	11.24	11.26	12.53
Posttest System Cal Response	11.23	10.95	12.54
Average Cal Response (C _M)	11.24	11.11	12.54
Corrected Run Average (Corr)	4.42	10.88	NA
12:35	4.70	10.86	0.21
12:36	4.74	10.85	0.21
12:37	4.73	10.85	0.21
12:38	4.68	10.90	0.21
12:39	4.75	10.88	0.23
12:40	4.70	10.88	0.23
12:41	4.75	10.82	0.23
12:42	4.75	10.81	0.24
12:43	4.71	10.86	0.24
12:44	4.51	11.02	0.22
12:45	4.63	10.96	0.23
12:46	4.55	10.96	0.23
12:47	4.61	10.92	0.24
12:48	4.60	10.94	0.24
12:49	4.61	10.96	0.22
12:50	4.61	10.96	0.21
12:51	4.50	10.99	0.22
12:52	4.62	10.93	0.24
12:53	4.64	10.92	0.24
12:54	4.55	10.97	0.28
12:55	4.47	11.05	0.25
12:56	4.51	11.03	0.24

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
8:25	190.9	1.021	2.14	18.3
8:26	190.8	1.021	2.20	17.9
8:27	190.9	1.020	2.13	18.9
8:28	190.9	1.021	2.15	19.2
8:29	190.9	1.021	2.12	19.4
8:31	190.9	1.021	2.13	19.9
8:32	190.9	1.021	2.16	20.4
8:33	190.9	1.021	2.08	19.9
8:34	191.0	1.021	2.12	18.7
8:35	190.9	1.021	2.02	21.0
8:36	190.9	1.022	2.13	19.8
8:37	191.0	1.022	2.13	21.5
8:38	191.0	1.021	2.15	19.5
8:39	191.0	1.022	2.02	20.8
8:40	191.0	1.021	2.15	18.7
8:41	191.0	1.021	2.14	20.4
8:42	190.9	1.022	2.16	19.2
8:43	191.0	1.021	2.09	20.0
8:44	191.0	1.021	2.08	20.1
8:45	191.0	1.022	2.09	20.0
8:46	191.0	1.021	2.03	20.7
8:47	191.0	1.021	2.18	19.2
8:48	191.0	1.021	2.05	20.5
8:49	191.0	1.022	2.07	20.5
8:50	191.0	1.021	2.11	19.5
8:51	191.0	1.021	2.14	19.1
8:52	191.0	1.022	2.06	19.5
8:54	191.0	1.022	2.13	20.2
8:55	190.9	1.021	2.16	18.6
8:56	191.0	1.021	2.15	20.4
8:57	191.0	1.021	2.15	18.8
8:58	190.9	1.021	2.07	20.0
8:59	191.0	1.021	2.08	18.9
9:00	191.0	1.021	2.01	19.7
9:01	191.0	1.022	2.03	20.8
9:02	191.0	1.020	2.11	18.7
9:03	191.0	1.021	2.05	21.0
9:04	191.0	1.021	1.97	18.7
9:05	190.9	1.021	1.49	20.1
9:06	190.9	1.022	1.58	19.9
9:07	190.9	1.021	1.73	18.3
9:08	190.9	1.021	1.82	19.2
9:09	190.9	1.021	1.91	19.2
9:10	190.9	1.021	2.07	20.1
9:11	191.0	1.021	2.07	19.4
9:12	191.0	1.021	2.07	18.4
9:13	191.0	1.021	2.02	19.9
9:14	191.0	1.021	2.07	19.4
9:16	191.0	1.022	1.94	19.6
9:17	191.0	1.021	1.99	19.0
9:18	191.0	1.020	2.02	18.9
9:19	190.9	1.021	2.04	19.6
9:20	191.0	1.021	2.01	18.4
9:21	191.0	1.021	2.06	19.6
9:22	191.0	1.021	1.97	18.8
9:23	191.0	1.021	1.99	18.1
9:24	190.9	1.021	2.00	18.7
9:38	190.9	1.020	2.18	17.8

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
9:39	190.9	1.020	2.10	18.1
9:40	190.9	1.021	2.06	18.4
9:41	190.8	1.021	2.10	18.3
9:42	190.9	1.021	2.08	19.0
9:43	190.9	1.021	2.16	17.8
9:44	190.9	1.021	2.21	18.0
9:45	190.9	1.021	2.18	16.6
9:46	190.9	1.021	2.07	19.0
9:47	191.0	1.021	2.12	18.7
9:48	190.9	1.021	2.07	18.2
9:49	190.9	1.020	2.16	17.7
9:50	190.9	1.020	2.09	17.2
9:51	191.0	1.021	2.05	19.7
9:52	191.0	1.020	2.11	18.7
9:53	190.9	1.021	2.10	19.3
9:54	190.9	1.020	2.14	18.7
9:55	190.9	1.020	2.06	19.2
9:56	190.9	1.020	2.04	19.5
9:57	191.0	1.021	2.05	19.4
9:58	191.0	1.020	2.08	19.0
10:00	191.0	1.021	2.09	19.6
10:01	191.0	1.021	2.13	19.4
10:02	190.9	1.020	2.13	18.0
10:03	190.9	1.020	2.09	19.1
10:04	191.0	1.021	2.05	19.6
10:05	191.0	1.020	2.08	18.9
10:06	191.0	1.021	2.00	19.4
10:07	191.0	1.020	1.97	18.7
10:08	191.0	1.020	2.06	18.8
10:09	191.0	1.020	2.07	20.1
10:10	191.0	1.021	2.13	19.2
10:11	191.0	1.020	2.01	18.4
10:12	191.0	1.021	2.03	19.1
10:13	191.0	1.020	2.08	19.0
10:14	191.1	1.021	2.02	20.1
10:15	191.0	1.021	1.99	19.3
10:16	191.0	1.021	2.13	19.3
10:17	191.0	1.021	2.08	18.4
10:18	191.0	1.020	2.08	19.2
10:19	191.0	1.020	2.01	18.0
10:20	191.0	1.021	2.08	20.1
10:22	191.0	1.021	2.06	19.1
10:23	191.0	1.021	2.09	19.6
10:24	191.1	1.021	2.07	19.0
10:25	191.0	1.020	2.00	18.8
10:26	191.1	1.021	2.04	18.9
10:27	191.0	1.020	2.09	19.2
10:28	191.0	1.020	1.96	19.7
10:29	191.0	1.020	2.03	19.1
10:30	191.0	1.021	2.05	19.4
10:31	191.0	1.019	2.00	18.4
10:32	191.0	1.021	2.06	19.3
10:33	191.0	1.020	1.99	18.7
10:34	191.0	1.020	2.12	18.3
10:47	190.8	1.021	2.13	19.9
10:48	190.8	1.021	2.26	18.4
10:49	190.9	1.020	2.08	18.9
10:50	191.0	1.020	2.12	18.3

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
10:51	190.9	1.020	2.10	17.9
10:52	190.9	1.020	2.09	19.2
10:53	190.9	1.021	2.08	20.0
10:54	191.0	1.020	2.11	18.3
10:55	190.9	1.020	2.14	18.4
10:56	190.9	1.020	2.09	19.1
10:57	191.0	1.020	2.16	19.2
10:58	190.9	1.020	2.05	19.2
10:59	191.0	1.020	2.10	20.3
11:00	190.9	1.021	2.16	19.6
11:01	191.0	1.020	2.11	19.3
11:02	191.0	1.020	2.08	18.5
11:03	191.0	1.020	2.08	19.1
11:04	191.0	1.020	2.06	19.0
11:06	191.0	1.020	2.13	19.0
11:07	191.0	1.020	2.06	18.9
11:08	191.0	1.020	2.14	17.7
11:09	191.0	1.020	2.09	19.2
11:10	191.0	1.020	2.11	18.8
11:11	191.0	1.020	2.09	19.8
11:12	191.0	1.021	2.04	19.1
11:13	191.1	1.020	2.14	19.2
11:14	191.0	1.020	2.08	19.4
11:15	191.0	1.020	2.04	18.6
11:16	191.0	1.020	2.04	19.7
11:17	191.0	1.020	2.17	18.4
11:18	191.0	1.020	2.16	19.4
11:19	191.1	1.020	2.10	19.8
11:20	191.0	1.021	2.14	19.3
11:21	191.0	1.021	2.14	19.1
11:22	191.0	1.020	2.17	18.6
11:23	191.1	1.021	2.09	18.4
11:24	191.0	1.020	2.12	19.1
11:25	191.2	1.020	2.10	19.7
11:26	191.1	1.021	2.03	19.2
11:27	191.1	1.020	2.12	19.2
11:29	191.1	1.021	2.10	19.9
11:30	191.0	1.020	2.07	18.7
11:31	191.0	1.020	2.07	18.9
11:32	191.0	1.020	2.12	19.1
11:33	191.1	1.020	2.12	18.8
11:34	191.0	1.020	2.09	19.0
11:35	191.0	1.020	2.10	18.3
11:36	191.0	1.020	2.14	19.3
11:37	191.1	1.021	2.11	19.1
11:38	191.0	1.020	2.13	18.6
11:39	191.0	1.020	2.06	19.3
11:40	191.1	1.021	2.14	19.9
11:41	191.0	1.020	2.15	18.6
11:42	191.0	1.020	2.24	18.3
12:00	190.9	1.019	2.07	19.7
12:01	190.9	1.020	2.14	18.2
12:02	190.9	1.020	2.16	19.4
12:03	191.0	1.020	2.20	18.3
12:04	191.0	1.020	2.11	19.4
12:05	190.9	1.020	2.16	18.9
12:06	190.9	1.020	2.09	19.5
12:07	191.0	1.020	2.11	19.1

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
12:08	191.0	1.019	2.14	18.3
12:09	191.0	1.020	2.13	19.8
12:10	191.0	1.020	2.09	18.3
12:11	191.0	1.020	2.15	19.0
12:13	191.0	1.019	2.17	18.5
12:14	191.0	1.020	2.15	19.3
12:15	191.1	1.020	2.07	19.1
12:16	191.0	1.019	2.11	19.3
12:17	191.0	1.019	2.12	19.7
12:18	191.0	1.020	2.05	19.8
12:19	191.0	1.019	2.14	17.9
12:20	191.1	1.020	2.13	20.3
12:21	191.1	1.020	2.11	18.8
12:22	191.1	1.020	2.17	18.8
12:23	191.0	1.019	2.08	18.4
12:24	191.0	1.020	2.10	19.2
12:25	191.0	1.020	2.19	19.4
12:26	191.0	1.019	2.12	19.1
12:27	191.0	1.020	2.05	19.5
12:28	191.0	1.020	2.15	18.4
12:29	191.1	1.020	2.09	19.4
12:30	191.1	1.020	2.01	19.2
12:31	191.1	1.019	2.20	17.8
12:32	191.0	1.019	2.10	19.0
12:33	191.0	1.019	2.14	19.0
12:35	191.0	1.020	2.08	20.0
12:36	191.0	1.020	2.12	19.1
12:37	191.0	1.019	2.08	19.5
12:38	191.1	1.020	2.18	18.3
12:39	191.0	1.020	2.05	20.0
12:40	191.0	1.019	2.12	18.7
12:41	191.1	1.020	2.14	19.9
12:42	191.0	1.020	2.09	18.6
12:43	191.1	1.020	2.14	18.4
12:44	191.0	1.019	2.01	18.9
12:45	191.0	1.020	2.01	19.0
12:46	191.1	1.020	2.07	19.4
12:47	191.1	1.019	2.17	18.8
12:48	191.0	1.018	2.13	18.3
12:49	191.0	1.019	2.03	19.3
12:50	190.9	1.019	2.14	18.2
12:51	191.0	1.020	2.04	20.0
12:52	191.0	1.020	2.01	20.4
12:53	191.0	1.019	2.02	18.9
12:54	191.0	1.020	2.11	19.5
12:55	191.0	1.019	2.12	17.5
Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	191.0	1.020	2.09	19.1

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.58	10.83	0.28
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.10	0.06	0.07
Posttest System Zero Response	0.10	0.04	0.00
Average Zero Response (C ₀)	0.10	0.05	0.04
Pretest System Cal Response	11.23	10.95	12.54
Posttest System Cal Response	11.26	10.89	12.37
Average Cal Response (C _M)	11.25	10.92	12.46
Corrected Run Average (Corr)	4.43	10.91	NA
13:36	4.56	10.92	0.24
13:37	4.65	10.88	0.24
13:38	4.66	10.91	0.24
13:39	4.63	10.94	0.24
13:40	4.74	10.82	0.24
13:41	4.92	10.62	0.26
13:42	4.59	10.87	0.24
13:43	4.56	10.95	0.24
13:44	4.50	11.02	0.24
13:45	4.57	10.97	0.24
13:46	4.58	10.87	0.24
13:47	4.65	10.84	0.24
13:48	4.56	10.97	0.24
13:49	4.58	10.97	0.24
13:50	4.50	11.03	0.24
13:51	4.45	11.03	0.24
13:52	4.61	10.88	0.24
13:53	4.71	10.84	0.24
13:54	4.58	10.97	0.24
13:55	4.58	10.99	0.24
13:56	4.59	10.98	0.24
13:57	4.69	10.81	0.24
13:58	4.79	10.74	0.25
13:59	4.60	10.94	0.25
14:00	4.54	11.01	0.24
14:01	4.67	10.93	0.24
14:02	4.56	10.93	0.24
14:03	4.66	10.82	0.24
14:04	4.63	10.89	0.26
14:05	4.68	10.89	0.26
14:06	4.65	10.90	0.25
14:07	4.62	10.93	0.26
14:08	4.59	10.87	0.24
14:09	4.61	10.89	0.24
14:10	4.48	11.03	0.24
14:11	4.38	11.11	0.24
14:12	4.46	11.06	0.24
14:13	4.49	11.00	0.24
14:14	4.66	10.84	0.24
14:15	4.62	10.88	0.24
14:16	4.46	11.04	0.24
14:17	4.41	11.09	0.24
14:18	4.54	11.02	0.24
14:19	4.69	10.80	0.24
14:20	4.73	10.78	0.24
14:21	4.69	10.87	0.26
14:22	4.61	10.95	0.25
14:23	4.61	10.92	0.27
14:24	4.53	10.93	0.26
14:25	4.69	10.80	0.26

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.58	10.83	0.28
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.10	0.06	0.07
Posttest System Zero Response	0.10	0.04	0.00
Average Zero Response (C ₀)	0.10	0.05	0.04
Pretest System Cal Response	11.23	10.95	12.54
Posttest System Cal Response	11.26	10.89	12.37
Average Cal Response (C _M)	11.25	10.92	12.46
Corrected Run Average (Corr)	4.43	10.91	NA
14:26	4.69	10.85	0.26
14:27	4.60	10.94	0.25
14:28	4.48	11.02	0.25
14:29	4.40	11.08	0.27
14:30	4.56	10.88	0.26
14:31	4.73	10.77	0.27
14:32	4.52	10.95	0.26
14:33	4.55	10.96	0.27
14:34	4.49	11.01	0.26
14:35	4.67	10.86	0.27
14:36	4.62	10.83	
14:37	4.64	10.85	
14:38	4.61	10.91	
14:39	4.64	10.90	
14:40	4.64	10.87	
14:41	4.47	10.90	
14:42	4.72	10.77	
14:43	4.68	10.84	
14:44	4.58	10.92	
14:45	4.53	10.95	
14:46	4.45	10.98	
14:47	4.70	10.78	
14:48	4.64	10.83	
14:49	4.80	10.74	
14:50	4.75	10.80	
14:51	4.68	10.85	0.27
14:52	4.66	10.80	0.25
14:53	4.71	10.76	0.27
14:54	4.69	10.80	0.27
14:55	4.53	10.94	0.27
14:56	4.64	10.88	0.27
14:57	4.62	10.86	0.27
14:58	4.66	10.77	0.27
14:59	4.71	10.76	0.27
15:00	4.61	10.88	0.27
15:01	4.57	10.92	0.26
15:02	4.51	10.96	0.26
15:03	4.48	10.90	0.26
15:04	4.58	10.83	0.27
15:05	4.46	10.94	0.27
15:06	4.51	10.93	0.27
15:07	4.54	10.93	0.27
15:08	4.61	10.88	0.27
15:09	4.72	10.76	0.27
15:10	4.60	10.84	0.27
15:11	4.47	10.95	0.27
15:12	4.60	10.89	0.27
15:13	4.63	10.89	0.27
15:14	4.64	10.79	0.30
15:15	4.65	10.77	0.30

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.58	10.83	0.28
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.10	0.06	0.07
Posttest System Zero Response	0.10	0.04	0.00
Average Zero Response (C ₀)	0.10	0.05	0.04
Pretest System Cal Response	11.23	10.95	12.54
Posttest System Cal Response	11.26	10.89	12.37
Average Cal Response (C _M)	11.25	10.92	12.46
Corrected Run Average (Corr)	4.43	10.91	NA
15:16	4.65	10.81	0.30
15:17	4.60	10.89	0.27
15:18	4.55	10.93	0.27
15:19	4.48	10.95	0.30
15:20	4.62	10.80	0.29
15:21	4.68	10.77	0.30
15:22	4.69	10.79	0.30
15:23	4.57	10.87	0.30
15:24	4.54	10.91	0.30
15:25	4.54	10.86	0.29
15:26	4.61	10.82	0.30
15:27	4.57	10.84	0.30
15:28	4.49	10.93	0.30
15:29	4.54	10.91	0.30
15:30	4.49	10.92	0.30
15:31	4.72	10.73	0.31
15:32	4.79	10.68	0.33
15:33	4.69	10.80	0.31
15:34	4.58	10.90	0.32
15:35	4.59	10.90	0.32
15:36	4.54	10.85	0.33
15:37	4.68	10.76	0.32
15:38	4.69	10.77	0.33
15:39	4.58	10.88	0.32
15:40	4.56	10.91	0.33
15:41	4.47	10.93	0.33
15:42	4.63	10.75	0.32
15:43	4.63	10.73	0.32
15:44	4.50	10.83	0.32
15:45	4.41	10.90	0.31
15:46	4.59	10.79	0.33
15:47	4.55	10.71	0.33
15:48	4.56	10.68	0.33
15:49	4.49	10.71	0.31
15:50	4.36	10.83	0.33
15:51	4.38	10.80	
15:52	4.42	10.77	
15:53	4.64	10.57	
15:54	4.59	10.58	
15:55	4.56	10.64	
15:56	4.66	10.62	
15:57	4.59	10.69	
15:58	4.68	10.60	
15:59	4.70	10.58	
16:00	4.50	10.72	
16:01	4.71	10.62	
16:02	4.79	10.58	
16:03	4.78	10.57	
16:04	4.77	10.52	
16:05	4.62	10.61	0.33

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmw Valid
Uncorrected Run Average (C _{obs})	4.58	10.83	0.28
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.10	0.06	0.07
Posttest System Zero Response	0.10	0.04	0.00
Average Zero Response (C ₀)	0.10	0.05	0.04
Pretest System Cal Response	11.23	10.95	12.54
Posttest System Cal Response	11.26	10.89	12.37
Average Cal Response (C _M)	11.25	10.92	12.46
Corrected Run Average (Corr)	4.43	10.91	NA
16:06	4.66	10.62	0.33
16:07	4.57	10.73	0.33
16:08	4.55	10.76	0.33
16:09	4.50	10.74	0.32
16:10	4.75	10.57	0.33
16:11	4.65	10.66	0.32
16:12	4.64	10.71	0.33
16:13	4.62	10.73	0.33
16:14	4.61	10.73	0.33
16:15	4.75	10.56	0.33
16:16	4.68	10.61	0.30
16:17	4.56	10.75	0.30
16:18	4.47	10.84	0.32
16:19	4.51	10.84	0.32
16:20	4.59	10.71	0.33
16:21	4.51	10.75	0.32
16:22	4.58	10.72	0.32
16:23	4.43	10.85	0.32
16:24	4.73	10.69	0.31
16:25	4.75	10.62	0.33
16:26	4.54	10.68	0.31
16:27	4.49	10.72	0.30
16:28	4.35	10.83	0.30
16:29	4.35	10.88	0.30
16:30	4.37	10.87	0.30
16:31	4.57	10.68	0.30
16:32	4.52	10.71	0.30
16:33	4.61	10.67	0.31
16:34	4.55	10.74	0.30
16:35	4.66	10.69	0.31
16:36	4.65	10.65	0.33
16:37	4.49	10.70	0.30
16:38	4.66	10.62	0.32
16:39	4.60	10.70	0.31
16:40	4.65	10.71	0.31
16:41	4.63	10.72	0.31
16:42	4.53	10.72	0.30
16:43	4.79	10.55	0.31
16:44	4.74	10.61	0.31
16:45	4.58	10.77	0.31
16:46	4.67	10.72	0.32
16:47	4.67	10.69	0.30
16:48	4.71	10.61	0.30
16:49	4.65	10.69	0.30
16:50	4.66	10.73	0.30
16:51	4.72	10.73	0.30
16:52	4.64	10.78	0.30
16:53	4.55	10.77	0.30
16:54	4.75	10.66	0.30
16:55	4.52	10.82	0.30

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.58	10.83	0.28
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.10	0.06	0.07
Posttest System Zero Response	0.10	0.04	0.00
Average Zero Response (C ₀)	0.10	0.05	0.04
Pretest System Cal Response	11.23	10.95	12.54
Posttest System Cal Response	11.26	10.89	12.37
Average Cal Response (C _M)	11.25	10.92	12.46
Corrected Run Average (Corr)	4.43	10.91	NA
16:56	4.61	10.82	0.30
16:57	4.62	10.80	0.30
16:58	4.34	10.95	0.28
16:59	4.62	10.75	0.27
17:00	4.62	10.77	0.30
17:01	4.67	10.79	0.30
17:02	4.63	10.81	0.30
17:03	4.53	10.89	0.29
17:04	4.36	10.94	0.30
17:05	4.54	10.82	
17:06	4.54	10.86	
17:07	4.53	10.89	
17:08	4.56	10.87	
17:09	4.52	10.88	
17:10	4.61	10.80	
17:11	4.50	10.90	
17:12	4.51	10.91	
17:13	4.43	10.97	
17:14	4.43	10.97	
17:15	4.45	10.89	
17:16	4.57	10.82	
17:17	4.70	10.76	
17:18	4.44	10.93	
17:19	4.48	10.91	
17:20	4.42	10.95	
17:21	4.65	10.76	
17:22	4.70	10.76	
17:23	4.73	10.76	
17:24	4.42	10.97	
17:25	4.39	11.00	
17:26	4.48	10.87	
17:27	4.64	10.78	
17:28	4.51	10.85	
17:29	4.52	10.88	
17:30	4.53	10.90	
17:31	4.49	10.91	
17:32	4.71	10.73	
17:33	4.63	10.79	
17:34	4.57	10.87	
17:35	4.64	10.83	
17:36	4.58	10.87	
17:37	4.53	10.84	
17:38	4.62	10.77	
17:39	4.54	10.83	
17:40	4.36	10.99	
17:41	4.53	10.91	
17:42	4.63	10.83	
17:43	4.61	10.79	
17:44	4.58	10.81	
17:45	4.38	10.99	0.24

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.58	10.83	0.28
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.10	0.06	0.07
Posttest System Zero Response	0.10	0.04	0.00
Average Zero Response (C ₀)	0.10	0.05	0.04
Pretest System Cal Response	11.23	10.95	12.54
Posttest System Cal Response	11.26	10.89	12.37
Average Cal Response (C _M)	11.25	10.92	12.46
Corrected Run Average (Corr)	4.43	10.91	NA
17:46	4.44	10.97	0.24
17:47	4.54	10.92	0.24
17:48	4.68	10.77	0.22
17:49	4.60	10.79	0.24
17:50	4.38	10.95	0.24
17:51	4.56	10.89	0.23
17:52	4.50	10.96	0.23
17:53	4.55	10.91	0.23
17:54	4.75	10.71	0.23
17:55	4.66	10.77	0.22
17:56	4.49	10.91	0.23
17:57	4.54	10.90	0.21
17:58	4.53	10.92	0.21
17:59	4.54	10.83	0.23
18:00	4.64	10.74	0.22
18:01	4.36	10.95	0.21
18:02	4.30	11.04	0.21
18:03	4.37	11.02	0.21
18:04	4.60	10.86	0.21
18:05	4.66	10.76	0.18
18:06	4.51	10.86	0.19
18:07	4.56	10.86	0.19

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
13:36	191.0	1.026	1.93	19.6
13:37	191.1	1.026	2.10	19.5
13:38	191.0	1.025	2.05	19.3
13:39	191.0	1.025	1.96	20.1
13:40	191.0	1.025	2.04	19.4
13:41	191.1	1.026	2.03	19.5
13:42	191.0	1.025	1.98	19.3
13:43	191.1	1.026	1.99	19.3
13:44	191.0	1.026	2.04	18.2
13:45	191.0	1.025	2.07	18.6
13:46	190.9	1.024	1.99	18.4
13:47	191.0	1.026	1.97	19.5
13:48	191.0	1.025	1.99	19.9
13:49	191.0	1.026	1.98	19.7
13:50	191.0	1.026	1.99	19.5
13:51	191.0	1.025	2.03	19.1
13:52	191.0	1.025	1.94	19.6
13:53	191.0	1.026	2.01	19.0
13:54	191.0	1.025	2.02	18.7
13:55	191.0	1.026	2.05	19.8
13:57	191.0	1.026	1.95	19.6
13:58	191.0	1.025	2.02	18.3
13:59	191.0	1.025	1.92	19.2
14:00	191.0	1.025	2.05	19.7
14:01	191.0	1.026	2.01	19.2
14:02	191.0	1.026	1.99	20.0
14:03	191.0	1.026	1.93	19.7
14:04	191.0	1.026	2.09	18.7
14:05	191.0	1.025	1.90	19.2
14:06	191.0	1.026	2.00	19.7
14:07	190.9	1.026	2.01	19.2
14:08	190.9	1.026	2.00	19.3
14:09	191.0	1.026	1.97	18.8
14:10	191.0	1.026	2.00	18.3
14:11	190.9	1.026	2.06	19.4
14:12	191.0	1.026	2.03	18.6
14:13	190.9	1.024	2.01	17.6
14:14	190.9	1.026	1.97	20.2
14:15	191.1	1.026	2.04	18.7
14:16	191.0	1.026	2.10	18.2
14:17	191.0	1.026	2.08	19.0
14:18	190.9	1.025	2.05	18.2
14:20	190.9	1.025	2.01	18.9
14:21	190.9	1.026	2.00	19.4
14:22	191.0	1.026	2.00	19.1
14:23	191.0	1.025	1.96	19.1
14:24	191.0	1.025	2.01	19.3
14:25	190.9	1.026	2.08	19.4
14:26	191.0	1.024	2.06	18.6
14:27	191.1	1.024	1.96	20.2
14:28	191.1	1.026	1.89	21.3
14:29	191.1	1.026	2.03	19.5
14:30	191.0	1.025	2.04	18.6
14:31	191.0	1.026	1.94	18.7
14:32	191.0	1.025	2.11	18.3
14:33	191.0	1.026	1.93	19.7
14:34	191.0	1.025	2.02	18.9
14:35	190.9	1.025	2.06	19.0

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
14:53	190.9	1.026	1.95	19.6
14:54	191.0	1.026	2.02	20.0
14:55	191.0	1.025	2.16	18.7
14:56	191.0	1.025	2.07	18.6
14:57	191.0	1.025	2.01	18.2
14:58	191.0	1.025	1.48	19.0
14:59	190.9	1.025	1.40	19.4
15:00	191.0	1.024	1.68	19.5
15:01	190.9	1.025	1.88	18.7
15:02	190.9	1.025	1.93	18.5
15:04	191.0	1.025	2.05	17.6
15:05	190.8	1.024	2.06	18.5
15:06	191.0	1.025	1.99	19.8
15:07	191.0	1.025	2.05	19.0
15:08	191.0	1.024	2.11	18.7
15:09	191.0	1.025	1.98	20.1
15:10	191.0	1.025	2.02	19.6
15:11	191.0	1.025	2.05	18.5
15:12	190.9	1.025	2.03	18.7
15:13	190.9	1.024	2.05	19.3
15:14	191.0	1.025	2.02	19.6
15:15	190.9	1.025	2.02	19.1
15:16	190.9	1.025	2.09	18.8
15:17	190.9	1.025	2.02	19.5
15:18	190.9	1.025	2.06	20.0
15:19	191.0	1.025	2.09	18.5
15:20	190.9	1.025	2.06	19.1
15:21	191.0	1.024	2.03	18.5
15:22	190.9	1.024	2.07	19.8
15:23	191.0	1.025	2.05	19.2
15:24	190.9	1.024	2.05	18.4
15:26	191.0	1.025	2.02	19.9
15:27	190.9	1.024	2.06	18.7
15:28	190.9	1.025	2.00	19.0
15:29	191.0	1.025	2.00	19.1
15:30	190.9	1.025	1.99	19.8
15:31	191.0	1.024	2.03	18.1
15:32	191.0	1.024	2.04	19.3
15:33	191.0	1.024	2.10	18.8
15:34	191.0	1.024	2.04	19.1
15:35	191.0	1.025	2.02	18.7
15:36	191.0	1.025	2.06	19.7
15:37	190.9	1.024	2.07	18.3
15:38	190.9	1.024	2.12	19.0
15:39	190.9	1.025	2.06	19.1
15:40	190.8	1.025	2.06	18.6
15:41	190.8	1.025	2.05	18.3
15:42	190.9	1.024	2.05	18.4
15:43	190.8	1.023	2.02	19.2
15:44	190.9	1.025	2.02	19.6
15:45	190.9	1.025	2.03	18.6
15:46	190.8	1.024	1.94	19.5
15:48	190.9	1.023	1.95	19.4
15:49	191.0	1.024	2.05	20.3
15:50	191.0	1.024	2.04	19.1
16:08	190.8	1.022	1.93	19.8
16:09	190.8	1.023	2.00	19.2
16:11	190.9	1.023	2.00	19.8

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
16:12	191.1	1.023	1.98	19.4
16:13	190.9	1.022	2.08	18.9
16:14	191.0	1.021	2.02	17.9
16:15	190.9	1.022	2.03	19.3
16:16	190.9	1.022	2.00	19.9
16:17	190.9	1.023	2.04	19.5
16:18	190.9	1.023	2.00	19.5
16:19	190.8	1.022	2.05	18.4
16:20	190.8	1.022	1.95	19.8
16:21	191.0	1.022	1.94	20.3
16:22	190.9	1.023	2.04	19.0
16:23	190.9	1.022	1.92	19.8
16:24	190.9	1.022	2.07	19.1
16:25	190.9	1.023	1.98	19.7
16:26	190.9	1.022	2.04	19.5
16:27	191.0	1.023	2.03	20.1
16:28	190.9	1.023	1.35	18.9
16:29	191.0	1.022	1.63	19.2
16:30	190.9	1.022	1.74	19.0
16:31	190.9	1.022	1.81	19.7
16:33	190.9	1.022	1.99	19.2
16:34	190.9	1.022	1.95	20.1
16:35	191.0	1.023	2.04	20.3
16:36	191.0	1.023	2.04	19.4
16:37	191.0	1.021	2.08	18.6
16:38	191.0	1.022	1.97	22.2
16:39	191.0	1.023	2.12	20.4
16:40	191.0	1.023	1.96	19.6
16:41	191.0	1.022	2.08	18.3
16:42	190.9	1.022	2.03	19.3
16:43	191.0	1.022	2.02	18.2
16:44	190.9	1.022	2.00	19.8
16:45	191.0	1.022	2.06	19.7
16:46	191.0	1.022	1.99	19.2
16:47	191.0	1.022	1.99	19.4
16:48	191.2	1.022	2.07	19.6
16:49	190.9	1.023	2.21	18.6
16:50	191.0	1.022	2.07	18.7
16:51	191.0	1.023	1.98	20.4
16:52	191.0	1.022	2.07	18.2
16:53	191.0	1.023	2.11	19.4
16:55	191.0	1.022	2.04	18.9
16:56	191.1	1.023	2.00	19.4
16:57	191.0	1.022	2.07	18.3
16:58	191.0	1.023	2.01	20.3
16:59	191.1	1.022	1.98	18.2
17:00	190.9	1.022	2.07	17.9
17:01	190.9	1.023	2.02	19.7
17:02	190.9	1.022	1.98	19.7
17:03	191.0	1.022	2.03	19.2
17:04	190.9	1.023	2.02	18.8
17:47	191.0	1.021	1.95	19.9
17:48	191.0	1.022	1.90	19.4
17:49	191.1	1.022	2.05	19.3
17:50	191.0	1.022	2.01	19.0
17:51	191.1	1.021	1.96	18.9
17:52	191.0	1.021	1.99	19.4
17:53	191.1	1.022	2.00	19.3

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
17:54	191.1	1.021	2.03	18.8
17:55	191.0	1.021	1.90	19.6
17:56	191.0	1.021	2.01	19.0
17:57	191.1	1.021	2.13	18.6
17:58	191.0	1.021	2.01	19.0
17:59	191.1	1.021	2.03	20.3
18:01	191.1	1.022	1.97	19.5
18:02	191.0	1.021	2.03	19.3
18:03	191.0	1.021	2.02	18.9
18:04	191.1	1.022	1.98	20.0
18:05	191.0	1.021	2.00	19.0
18:06	191.1	1.022	2.02	20.1
18:07	190.9	1.021	2.02	18.4
Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	191.0	1.024	2.00	19.2

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.78	10.55	0.41
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.09	0.17	0.01
Posttest System Zero Response	0.07	0.14	0.00
Average Zero Response (C ₀)	0.08	0.16	0.01
Pretest System Cal Response	11.31	11.31	12.53
Posttest System Cal Response	11.21	10.91	12.43
Average Cal Response (C _M)	11.26	11.11	12.48
Corrected Run Average (Corr)	4.63	10.44	NA
8:15	4.46	11.66	0.07
8:16	4.45	11.68	0.07
8:17	4.51	11.62	0.07
8:18	4.50	11.52	0.07
8:19	4.63	11.42	0.07
8:20	4.60	11.49	0.05
8:21	4.69	11.44	0.04
8:22	4.62	11.46	0.04
8:23	4.63	11.40	0.04
8:24	4.70	11.34	0.04
8:25	4.67	11.42	0.04
8:26	4.66	11.45	0.04
8:27	4.69	11.43	0.04
8:28	4.74	11.41	0.04
8:29	4.72	11.35	0.04
8:30	4.89	11.29	0.04
8:31	4.77	11.39	0.04
8:32	4.80	11.36	0.04
8:33	4.76	11.39	0.04
8:34	4.67	11.41	0.03
8:35	4.77	11.30	0.03
8:36	4.67	11.39	0.01
8:37	4.65	11.44	0.02
8:38	4.80	11.38	0.04
8:39	4.86	11.35	0.04
8:40	4.89	11.27	0.02
8:41	5.00	11.21	0.04
8:42	4.92	11.30	0.03
8:43	4.95	11.31	0.03
8:44	4.87	11.35	0.03
8:45	4.81	11.35	0.03
8:46	5.02	11.21	0.02
8:47	5.08	11.20	0.03
8:48	4.89	11.33	0.02
8:49	4.89	11.34	0.01
8:50	4.93	11.31	0.01
8:51	4.90	11.28	0.01
8:52	4.94	11.25	0.01
8:53	4.82	11.36	0.01
8:54	4.86	11.35	0.01
8:55	4.96	11.29	0.01
8:56	5.05	11.19	0.01
8:57	5.07	11.13	0.01
8:58	4.96	11.20	0.01
8:59	4.88	11.27	0.01
9:00	4.83	11.34	0.01
9:01	4.80	11.34	0.01
9:02	4.84	11.23	0.01
9:03	4.95	11.21	0.01
9:04	4.89	11.28	0.01

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.78	10.55	0.41
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.09	0.17	0.01
Posttest System Zero Response	0.07	0.14	0.00
Average Zero Response (C ₀)	0.08	0.16	0.01
Pretest System Cal Response	11.31	11.31	12.53
Posttest System Cal Response	11.21	10.91	12.43
Average Cal Response (C _M)	11.26	11.11	12.48
Corrected Run Average (Corr)	4.63	10.44	NA
9:05	4.79	11.36	0.03
9:06	4.82	11.25	0.16
9:07	4.89	10.98	0.27
9:08	5.00	10.75	0.31
9:09	4.93	10.74	0.31
9:10	4.78	10.82	0.32
9:11	4.65	10.88	0.31
9:12	4.60	10.92	0.33
9:13	4.69	10.79	0.33
9:14	4.82	10.69	0.34
9:15	4.86	10.65	
9:16	4.81	10.68	
9:17	4.79	10.68	
9:18	4.78	10.64	
9:19	4.92	10.51	
9:20	4.97	10.49	
9:21	5.16	10.36	
9:22	5.19	10.34	
9:23	5.09	10.38	
9:24	5.01	10.37	
9:25	5.02	10.38	
9:26	5.11	10.35	
9:27	5.20	10.28	0.35
9:28	5.13	10.33	0.36
9:29	5.11	10.30	0.37
9:30	5.13	10.27	0.38
9:31	4.99	10.39	0.37
9:32	4.94	10.44	0.37
9:33	4.95	10.45	0.38
9:34	5.03	10.39	0.39
9:35	4.98	10.34	0.42
9:36	4.89	10.42	0.43
9:37	4.99	10.40	0.42
9:38	5.02	10.40	0.40
9:39	5.10	10.34	0.40
9:40	5.12	10.27	0.42
9:41	5.11	10.24	0.42
9:42	4.95	10.38	0.42
9:43	4.94	10.41	0.40
9:44	4.83	10.46	0.40
9:45	4.70	10.53	0.40
9:46	4.96	10.32	0.44
9:47	4.99	10.33	0.43
9:48	4.91	10.44	0.43
9:49	4.85	10.47	0.43
9:50	4.94	10.43	0.43
9:51	4.79	10.49	0.44
9:52	5.04	10.29	0.44
9:53	5.11	10.25	0.44
9:54	4.90	10.44	0.44

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.78	10.55	0.41
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.09	0.17	0.01
Posttest System Zero Response	0.07	0.14	0.00
Average Zero Response (C ₀)	0.08	0.16	0.01
Pretest System Cal Response	11.31	11.31	12.53
Posttest System Cal Response	11.21	10.91	12.43
Average Cal Response (C _M)	11.26	11.11	12.48
Corrected Run Average (Corr)	4.63	10.44	NA
9:55	4.65	10.60	0.44
9:56	4.71	10.55	0.43
9:57	4.93	10.34	0.48
9:58	5.03	10.28	0.47
9:59	4.92	10.39	0.46
10:00	4.94	10.40	0.44
10:01	4.91	10.39	0.45
10:02	4.98	10.32	0.47
10:03	5.02	10.28	0.49
10:04	4.94	10.39	0.48
10:05	5.03	10.36	0.46
10:06	4.95	10.40	0.45
10:07	4.84	10.46	0.45
10:08	4.90	10.35	0.48
10:09	4.71	10.48	0.46
10:10	4.84	10.43	0.45
10:11	4.87	10.44	0.45
10:12	4.99	10.38	0.47
10:13	4.95	10.36	0.46
10:14	4.98	10.31	0.47
10:15	4.91	10.37	0.45
10:16	4.91	10.40	0.47
10:17	4.97	10.37	0.46
10:18	4.95	10.36	0.46
10:19	4.79	10.37	0.47
10:20	4.85	10.36	0.49
10:21	4.80	10.45	0.48
10:22	4.93	10.35	0.46
10:23	4.95	10.34	0.45
10:24	4.96	10.28	0.48
10:25	4.93	10.27	0.47
10:26	4.89	10.33	0.47
10:27	4.94	10.31	
10:28	4.86	10.38	
10:29	4.80	10.44	
10:30	4.83	10.35	
10:31	4.94	10.30	
10:32	4.76	10.45	
10:33	4.92	10.37	
10:34	4.83	10.42	
10:35	4.91	10.30	
10:36	4.92	10.26	
10:37	4.79	10.39	
10:38	4.74	10.47	
10:39	4.78	10.44	
10:40	4.74	10.46	
10:41	5.04	10.19	0.51
10:42	4.89	10.31	0.50
10:43	4.65	10.51	0.48
10:44	4.63	10.52	0.47

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.78	10.55	0.41
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.09	0.17	0.01
Posttest System Zero Response	0.07	0.14	0.00
Average Zero Response (C ₀)	0.08	0.16	0.01
Pretest System Cal Response	11.31	11.31	12.53
Posttest System Cal Response	11.21	10.91	12.43
Average Cal Response (C _M)	11.26	11.11	12.48
Corrected Run Average (Corr)	4.63	10.44	NA
10:45	4.56	10.56	0.48
10:46	4.89	10.35	0.51
10:47	5.15	10.17	0.53
10:48	5.09	10.22	0.51
10:49	4.92	10.35	0.50
10:50	4.86	10.38	0.51
10:51	4.78	10.43	0.49
10:52	4.79	10.35	0.52
10:53	4.88	10.29	0.51
10:54	4.94	10.29	0.52
10:55	4.88	10.36	0.50
10:56	5.03	10.27	0.52
10:57	4.89	10.29	0.52
10:58	4.92	10.24	0.52
10:59	4.88	10.29	0.51
11:00	4.80	10.36	0.51
11:01	4.57	10.50	0.50
11:02	4.60	10.47	0.49
11:03	4.89	10.23	0.53
11:04	4.91	10.24	0.53
11:05	4.84	10.30	0.50
11:06	4.84	10.29	0.51
11:07	4.81	10.31	0.50
11:08	4.71	10.32	0.53
11:09	4.88	10.21	0.53
11:10	4.79	10.28	0.53
11:11	4.57	10.46	0.51
11:12	4.52	10.52	0.50
11:13	4.60	10.47	0.51
11:14	4.58	10.39	0.53
11:15	4.51	10.45	0.53
11:16	4.53	10.50	0.52
11:17	4.64	10.44	0.53
11:18	4.62	10.43	0.53
11:19	4.68	10.32	0.51
11:20	4.67	10.32	0.54
11:21	4.82	10.29	0.54
11:22	4.66	10.43	0.54
11:23	4.81	10.33	0.55
11:24	4.60	10.46	0.52
11:25	4.74	10.29	0.55
11:26	4.89	10.22	0.56
11:27	4.85	10.26	0.55
11:28	4.74	10.34	0.52
11:29	4.70	10.38	0.53
11:30	4.79	10.30	0.55
11:31	4.89	10.20	0.55
11:32	4.82	10.27	0.54
11:33	4.72	10.36	0.52
11:34	4.74	10.36	0.51

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.78	10.55	0.41
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.09	0.17	0.01
Posttest System Zero Response	0.07	0.14	0.00
Average Zero Response (C ₀)	0.08	0.16	0.01
Pretest System Cal Response	11.31	11.31	12.53
Posttest System Cal Response	11.21	10.91	12.43
Average Cal Response (C _M)	11.26	11.11	12.48
Corrected Run Average (Corr)	4.63	10.44	NA
11:35	4.79	10.32	0.55
11:36	4.80	10.23	0.57
11:37	4.76	10.27	0.58
11:38	4.66	10.38	0.55
11:39	4.68	10.39	0.54
11:40	4.69	10.37	0.54
11:41	4.60	10.37	
11:42	4.54	10.39	
11:43	4.63	10.37	
11:44	4.65	10.38	
11:45	4.62	10.40	
11:46	4.64	10.40	
11:47	4.75	10.27	
11:48	4.92	10.18	
11:49	4.76	10.30	
11:50	4.61	10.40	
11:51	4.60	10.42	
11:52	4.61	10.38	
11:53	4.66	10.30	
11:54	4.52	10.42	
11:55	4.52	10.47	
11:56	4.51	10.50	
11:57	4.42	10.54	
11:58	4.72	10.27	
11:59	4.66	10.33	
12:00	4.52	10.46	
12:01	4.41	10.53	0.56
12:02	4.50	10.46	0.53
12:03	4.54	10.39	0.56
12:04	4.78	10.21	0.58
12:05	4.75	10.28	0.60
12:06	4.72	10.30	0.58
12:07	4.54	10.41	0.61
12:08	4.40	10.50	0.59
12:09	4.69	10.25	0.59
12:10	4.74	10.20	0.61
12:11	4.42	10.44	0.58
12:12	4.41	10.48	0.58
12:13	4.47	10.45	0.59
12:14	4.55	10.36	0.58
12:15	4.55	10.34	0.61
12:16	4.55	10.37	0.60
12:17	4.51	10.44	0.57
12:18	4.56	10.42	0.57
12:19	4.48	10.44	0.60
12:20	4.52	10.36	0.58
12:21	4.51	10.41	0.58
12:22	4.55	10.43	0.57
12:23	4.59	10.40	0.58
12:24	4.47	10.47	0.54

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.78	10.55	0.41
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.09	0.17	0.01
Posttest System Zero Response	0.07	0.14	0.00
Average Zero Response (C ₀)	0.08	0.16	0.01
Pretest System Cal Response	11.31	11.31	12.53
Posttest System Cal Response	11.21	10.91	12.43
Average Cal Response (C _M)	11.26	11.11	12.48
Corrected Run Average (Corr)	4.63	10.44	NA
12:25	4.55	10.38	0.59
12:26	4.71	10.27	0.60
12:27	4.71	10.30	0.58
12:28	4.63	10.36	0.54
12:29	4.55	10.44	0.53
12:30	4.56	10.43	0.56
12:31	4.63	10.32	0.58
12:32	4.82	10.20	0.63
12:33	4.69	10.32	0.59
12:34	4.66	10.35	0.54
12:35	4.73	10.31	0.58
12:36	4.67	10.27	0.54
12:37	4.68	10.24	0.62
12:38	4.74	10.26	0.60
12:39	4.64	10.34	0.63
12:40	4.70	10.30	0.64
12:41	4.63	10.33	0.64
12:42	4.58	10.29	0.65
12:43	4.63	10.30	0.66
12:44	4.60	10.38	0.65
12:45	4.50	10.44	0.65
12:46	4.41	10.51	0.65
12:47	4.59	10.36	0.68
12:48	4.69	10.29	0.68
12:49	4.70	10.30	0.67
12:50	4.53	10.44	0.66
12:51	4.72	10.31	0.67
12:52	4.68	10.32	0.67
12:53	4.73	10.20	0.69
12:54	4.87	10.11	0.69
12:55	4.91	10.16	0.68
12:56	4.85	10.21	0.68
12:57	4.83	10.23	0.68
12:58	4.70	10.24	0.68
12:59	4.78	10.16	0.70
13:00	4.74	10.23	0.69
13:01	4.70	10.28	
13:02	4.69	10.27	
13:03	4.62	10.29	
13:04	4.68	10.21	
13:05	4.67	10.23	
13:06	4.65	10.28	

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
8:15	191.0	1.030	1.97	20.2
8:16	191.0	1.029	1.97	19.5
8:17	191.0	1.029	1.88	20.0
8:18	191.0	1.029	1.95	19.1
8:19	190.9	1.029	2.00	19.2
8:20	190.9	1.029	2.01	20.0
8:21	191.0	1.029	1.87	19.4
8:22	191.0	1.029	1.93	19.2
8:23	191.0	1.030	1.99	19.4
8:24	190.9	1.029	2.04	19.5
8:25	191.0	1.028	2.06	18.5
8:26	191.0	1.030	2.01	19.8
8:28	191.0	1.029	1.93	19.1
8:29	191.0	1.029	1.99	19.9
8:30	191.0	1.029	2.02	18.8
8:31	190.9	1.029	1.92	19.8
8:32	190.9	1.030	1.99	18.7
8:33	190.9	1.030	2.00	19.7
8:34	191.0	1.029	1.93	19.2
8:35	190.9	1.030	2.00	18.7
8:36	190.9	1.029	2.03	19.2
8:37	191.0	1.029	2.00	19.0
8:38	191.0	1.029	1.96	19.5
8:39	190.9	1.030	1.91	19.1
8:40	190.9	1.029	2.00	18.4
8:41	190.9	1.029	1.96	18.9
8:42	190.9	1.029	2.04	19.4
8:43	191.0	1.029	1.93	19.2
8:44	190.9	1.029	1.88	18.7
8:45	190.9	1.029	1.93	19.1
8:46	190.9	1.029	2.00	18.7
8:47	190.9	1.030	1.95	20.5
8:48	191.0	1.029	1.93	18.1
8:50	191.0	1.029	1.96	19.4
8:51	191.0	1.029	1.80	19.4
8:52	191.0	1.029	1.96	18.1
8:53	191.0	1.030	1.88	20.1
8:54	191.0	1.029	1.97	18.4
8:55	191.0	1.029	1.90	18.8
8:56	191.1	1.029	1.88	19.9
8:57	191.1	1.029	1.95	19.1
8:58	191.0	1.029	1.87	18.9
8:59	191.0	1.029	1.82	18.6
9:00	191.0	1.030	1.92	18.6
9:01	191.0	1.029	1.83	18.6
9:02	191.0	1.030	1.84	20.7
9:03	191.1	1.028	2.00	18.7
9:04	191.0	1.030	1.93	19.3
9:05	191.1	1.030	1.85	19.2
9:06	191.0	1.029	2.00	18.3
9:07	191.0	1.030	1.79	20.3
9:08	191.0	1.029	1.91	18.5
9:09	191.0	1.029	1.82	20.5
9:10	191.1	1.029	1.89	20.2
9:12	191.1	1.030	1.89	20.9
9:13	191.2	1.030	1.85	19.9
9:14	191.1	1.030	1.87	19.8
9:29	191.0	1.026	2.03	18.3

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
9:30	191.1	1.029	1.94	20.4
9:31	191.0	1.027	1.88	19.0
9:32	191.0	1.026	2.04	17.3
9:33	191.0	1.027	1.92	20.7
9:35	191.0	1.027	1.94	19.5
9:36	191.0	1.027	1.90	19.2
9:37	191.0	1.027	1.88	20.0
9:38	191.1	1.027	1.93	19.3
9:39	191.0	1.026	1.97	18.9
9:40	191.0	1.027	1.91	21.3
9:41	191.1	1.027	1.92	20.2
9:42	191.1	1.027	1.92	20.3
9:43	191.0	1.027	1.89	19.6
9:44	191.1	1.027	1.87	21.6
9:45	191.2	1.027	1.90	19.0
9:46	191.0	1.026	1.88	19.7
9:47	191.1	1.027	1.93	19.2
9:48	191.0	1.027	1.93	20.3
9:49	191.1	1.027	1.94	20.2
9:50	191.1	1.027	1.76	20.8
9:51	191.0	1.027	1.83	19.4
9:52	191.0	1.027	1.92	20.2
9:53	191.1	1.028	1.83	21.2
9:54	191.1	1.027	1.84	20.1
9:55	191.1	1.028	1.92	21.3
9:57	191.1	1.027	1.99	19.6
9:58	191.1	1.026	1.96	19.3
9:59	191.1	1.027	1.99	20.3
10:00	191.0	1.027	1.91	20.8
10:01	191.1	1.028	1.86	20.2
10:02	191.1	1.027	1.98	19.4
10:03	191.0	1.027	1.99	20.0
10:04	191.1	1.027	1.85	21.9
10:05	191.1	1.027	1.89	20.2
10:06	191.1	1.026	1.96	19.5
10:07	191.1	1.027	1.85	20.9
10:08	191.1	1.026	1.88	19.9
10:09	191.1	1.027	2.02	20.3
10:10	191.1	1.026	1.97	20.2
10:11	191.1	1.027	1.87	20.8
10:12	191.1	1.026	1.87	21.0
10:13	191.1	1.026	1.91	19.4
10:14	191.0	1.027	1.97	20.5
10:15	191.1	1.027	1.94	19.8
10:16	191.1	1.027	1.90	20.4
10:17	191.0	1.026	2.03	21.1
10:19	191.1	1.026	1.98	20.0
10:20	191.1	1.027	1.88	19.9
10:21	191.1	1.027	1.81	21.0
10:22	191.2	1.027	1.86	20.1
10:23	191.2	1.026	1.93	19.5
10:24	191.2	1.028	1.82	21.8
10:25	191.2	1.027	1.90	19.6
10:26	191.0	1.027	1.87	19.9
10:43	191.1	1.027	2.05	19.6
10:44	191.1	1.026	2.11	18.2
10:45	191.1	1.027	1.99	20.2
10:46	191.1	1.027	2.02	20.2

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
10:47	191.1	1.026	2.07	18.9
10:48	191.1	1.027	2.05	20.3
10:49	191.1	1.028	1.98	22.0
10:50	191.1	1.027	1.99	18.2
10:51	191.0	1.026	2.08	18.2
10:52	191.1	1.027	1.94	21.2
10:53	191.1	1.026	2.04	19.2
10:54	191.1	1.028	1.92	21.6
10:55	191.2	1.027	2.02	19.7
10:56	191.2	1.027	2.04	19.7
10:57	191.2	1.028	2.03	20.0
10:58	191.1	1.027	2.05	19.4
10:59	191.2	1.026	2.02	19.1
11:00	191.2	1.027	1.98	18.8
11:01	191.1	1.027	2.01	21.0
11:03	191.2	1.027	2.03	20.4
11:04	191.1	1.026	2.04	18.9
11:05	191.1	1.026	1.95	19.2
11:06	191.2	1.027	1.96	20.2
11:07	191.1	1.026	2.11	19.1
11:08	191.1	1.027	1.98	20.0
11:09	191.1	1.027	1.87	20.7
11:10	191.1	1.027	1.98	20.0
11:11	191.1	1.026	1.96	19.6
11:12	191.0	1.026	1.96	19.2
11:13	191.1	1.027	1.99	20.4
11:14	191.1	1.027	1.98	20.1
11:15	191.1	1.026	1.93	19.6
11:16	191.0	1.027	1.91	19.6
11:17	191.1	1.027	1.96	20.6
11:18	191.1	1.026	1.92	20.1
11:19	191.1	1.027	2.06	21.0
11:20	191.1	1.026	1.97	19.6
11:21	191.0	1.026	1.95	19.9
11:22	191.1	1.026	1.95	20.3
11:23	191.1	1.027	1.99	19.8
11:25	191.0	1.026	1.96	19.3
11:26	191.0	1.027	2.00	19.9
11:27	191.0	1.026	1.93	20.5
11:28	191.1	1.026	1.90	20.2
11:29	191.0	1.026	1.94	19.1
11:30	191.1	1.026	1.94	21.2
11:31	191.1	1.026	2.03	20.7
11:32	191.1	1.027	2.02	21.5
11:33	191.1	1.027	1.53	20.2
11:34	191.1	1.026	1.44	19.6
11:35	191.2	1.027	1.56	20.4
11:36	191.2	1.027	1.82	20.2
11:37	191.1	1.026	2.01	19.5
11:38	191.2	1.027	1.95	21.7
11:39	191.2	1.027	2.01	19.7
11:40	191.1	1.026	2.06	19.8
12:03	191.1	1.026	2.03	19.5
12:04	191.1	1.027	2.02	20.4
12:05	191.1	1.026	2.08	18.3
12:06	191.1	1.027	2.13	19.7
12:07	191.0	1.026	2.08	20.3
12:08	191.1	1.027	2.05	20.4

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
12:10	191.1	1.026	2.09	18.6
12:11	191.1	1.027	2.05	21.2
12:12	191.2	1.026	2.07	17.7
12:13	191.1	1.027	1.92	22.3
12:14	191.0	1.026	2.12	19.0
12:15	191.0	1.026	2.07	19.5
12:16	191.0	1.027	2.04	20.9
12:17	191.0	1.027	2.03	20.1
12:18	191.0	1.025	2.12	18.8
12:19	191.0	1.026	2.06	19.8
12:20	191.1	1.028	2.07	20.8
12:21	191.1	1.026	2.08	19.2
12:22	191.0	1.025	2.03	18.2
12:23	191.0	1.027	2.09	21.1
12:24	191.1	1.027	2.06	20.4
12:25	191.0	1.025	2.05	18.7
12:26	191.3	1.026	2.01	20.6
12:27	191.2	1.026	2.05	21.3
12:28	191.1	1.025	2.07	19.1
12:29	191.1	1.026	2.11	19.3
12:30	191.1	1.025	2.05	19.7
12:32	191.2	1.027	2.01	21.4
12:33	191.2	1.026	2.06	19.1
12:34	191.1	1.026	2.10	18.1
12:35	191.2	1.026	2.06	20.0
12:36	191.2	1.026	2.11	19.1
12:37	191.2	1.026	1.99	21.6
12:38	191.2	1.027	2.07	20.8
12:39	191.2	1.025	2.74	17.0
12:40	191.1	1.026	1.96	21.6
12:41	191.2	1.026	2.07	19.9
12:42	191.1	1.025	2.08	18.1
12:43	191.1	1.026	1.90	22.7
12:44	191.1	1.025	2.15	18.5
12:45	191.0	1.025	2.12	20.2
12:46	191.0	1.025	2.06	20.0
12:47	191.1	1.027	2.04	21.1
12:48	191.1	1.026	2.04	20.3
12:49	191.0	1.025	2.13	19.1
12:50	191.0	1.025	2.13	20.0
12:51	191.1	1.025	2.14	18.8
12:52	191.1	1.026	2.07	19.9
12:54	191.1	1.026	2.16	19.7
12:55	191.0	1.026	2.05	19.7
12:56	191.0	1.025	2.08	19.5
12:57	191.0	1.026	2.04	19.4
12:58	191.0	1.025	1.97	20.6
12:59	191.0	1.025	2.04	19.4
13:00	191.2	1.025	2.09	20.7
Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	191.1	1.027	1.97	19.8

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.53	10.14	0.70
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.07	0.14	0.00
Posttest System Zero Response	0.03	0.09	0.00
Average Zero Response (C ₀)	0.05	0.12	0.00
Pretest System Cal Response	11.21	10.91	12.43
Posttest System Cal Response	11.21	10.88	12.33
Average Cal Response (C _M)	11.21	10.90	12.38
Corrected Run Average (Corr)	4.42	10.23	NA
14:00	4.32	10.35	0.79
14:01	4.13	10.54	0.77
14:02	4.18	10.50	0.79
14:03	4.33	10.39	0.76
14:04	4.42	10.31	0.78
14:05	4.56	10.20	0.81
14:06	4.72	10.10	0.80
14:07	4.71	10.12	0.80
14:08	4.62	10.17	0.78
14:09	4.79	10.04	0.79
14:10	4.77	9.99	0.79
14:11	4.70	10.01	0.78
14:12	4.74	10.02	0.77
14:13	4.57	10.16	0.79
14:14	4.35	10.30	0.77
14:15	4.21	10.34	0.75
14:16	4.26	10.30	0.77
14:17	4.41	10.25	0.76
14:18	4.41	10.31	0.77
14:19	4.51	10.26	0.76
14:20	4.47	10.26	0.76
14:21	4.34	10.30	0.77
14:22	4.38	10.30	0.77
14:23	4.42	10.32	0.77
14:24	4.39	10.33	0.76
14:25	4.45	10.29	0.75
14:26	4.32	10.34	0.76
14:27	4.53	10.19	0.78
14:28	4.72	10.06	0.80
14:29	4.48	10.24	0.78
14:30	4.70	10.15	0.80
14:31	4.66	10.17	0.78
14:32	4.59	10.15	0.81
14:33	4.53	10.19	0.79
14:34	4.44	10.28	0.79
14:35	4.59	10.22	0.79
14:36	4.51	10.27	0.79
14:37	4.45	10.24	0.79
14:38	4.71	10.05	0.80
14:39	4.83	10.01	0.80
14:40	4.89	9.99	0.79
14:41	4.82	10.01	0.78
14:42	4.65	10.10	0.78
14:43	4.60	10.07	0.79
14:44	4.55	10.10	0.79
14:45	4.59	10.10	0.78
14:46	4.63	10.06	0.78
14:47	4.53	10.15	0.78
14:48	4.62	10.07	0.78
14:49	4.57	10.09	0.78

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.53	10.14	0.70
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.07	0.14	0.00
Posttest System Zero Response	0.03	0.09	0.00
Average Zero Response (C ₀)	0.05	0.12	0.00
Pretest System Cal Response	11.21	10.91	12.43
Posttest System Cal Response	11.21	10.88	12.33
Average Cal Response (C _M)	11.21	10.90	12.38
Corrected Run Average (Corr)	4.42	10.23	NA
14:50	4.46	10.17	0.77
14:51	4.36	10.27	0.76
14:52	4.32	10.31	0.75
14:53	4.45	10.24	0.77
14:54	4.42	10.18	0.78
14:55	4.43	10.19	0.79
14:56	4.42	10.23	0.79
14:57	4.42	10.25	0.79
14:58	4.41	10.26	0.78
14:59	4.37	10.23	0.78
15:00	4.65	10.04	
15:01	4.44	10.19	
15:02	4.61	10.11	
15:03	4.47	10.18	
15:04	4.31	10.27	
15:05	4.45	10.16	
15:06	4.47	10.16	
15:07	4.38	10.24	
15:08	4.44	10.21	
15:09	4.53	10.16	
15:10	4.49	10.15	
15:11	4.63	10.04	
15:12	4.62	10.03	
15:13	4.72	10.00	
15:14	4.68	10.06	
15:15	4.57	10.14	
15:16	4.47	10.12	
15:17	4.53	10.12	
15:18	4.47	10.19	0.73
15:19	4.47	10.21	0.74
15:20	4.37	10.26	0.72
15:21	4.40	10.19	0.73
15:22	4.49	10.12	0.73
15:23	4.58	10.11	0.73
15:24	4.54	10.17	0.72
15:25	4.39	10.24	0.71
15:26	4.36	10.25	0.72
15:27	4.55	10.09	0.73
15:28	4.64	10.06	0.75
15:29	4.66	10.06	0.74
15:30	4.47	10.20	0.74
15:31	4.52	10.18	0.73
15:32	4.47	10.19	0.73
15:33	4.69	10.02	0.75
15:34	4.59	10.09	0.75
15:35	4.58	10.12	0.74
15:36	4.48	10.18	0.72
15:37	4.35	10.26	0.72
15:38	4.33	10.18	0.73
15:39	4.36	10.18	0.71

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.53	10.14	0.70
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.07	0.14	0.00
Posttest System Zero Response	0.03	0.09	0.00
Average Zero Response (C ₀)	0.05	0.12	0.00
Pretest System Cal Response	11.21	10.91	12.43
Posttest System Cal Response	11.21	10.88	12.33
Average Cal Response (C _M)	11.21	10.90	12.38
Corrected Run Average (Corr)	4.42	10.23	NA
15:40	4.43	10.19	0.72
15:41	4.54	10.17	0.72
15:42	4.50	10.18	0.71
15:43	4.52	10.15	0.72
15:44	4.60	10.07	0.74
15:45	4.58	10.11	0.73
15:46	4.58	10.11	0.72
15:47	4.46	10.20	0.71
15:48	4.56	10.15	0.72
15:49	4.39	10.19	0.70
15:50	4.30	10.26	0.70
15:51	4.37	10.23	0.70
15:52	4.33	10.28	0.70
15:53	4.43	10.24	0.72
15:54	4.64	10.08	0.72
15:55	4.78	9.94	0.73
15:56	4.68	10.02	0.73
15:57	4.63	10.10	0.71
15:58	4.57	10.17	0.71
15:59	4.54	10.18	0.71
16:00	4.39	10.21	0.70
16:01	4.58	10.10	0.72
16:02	4.53	10.16	0.71
16:03	4.74	10.04	0.72
16:04	4.61	10.11	0.70
16:05	4.55	10.12	0.69
16:06	4.63	10.06	0.70
16:07	4.61	10.09	0.70
16:08	4.58	10.11	0.69
16:09	4.58	10.12	0.68
16:10	4.47	10.20	0.68
16:11	4.60	10.06	0.71
16:12	4.57	10.06	0.69
16:13	4.30	10.25	0.67
16:14	4.52	10.15	0.67
16:15	4.51	10.17	0.69
16:16	4.60	10.08	0.69
16:17	4.57	10.08	0.70
16:18	4.66	10.02	
16:19	4.45	10.18	
16:20	4.55	10.13	
16:21	4.36	10.23	
16:22	4.41	10.16	
16:23	4.51	10.12	
16:24	4.53	10.13	
16:25	4.44	10.19	
16:26	4.33	10.25	
16:27	4.40	10.20	
16:28	4.57	10.07	
16:29	4.63	10.03	

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.53	10.14	0.70
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.07	0.14	0.00
Posttest System Zero Response	0.03	0.09	0.00
Average Zero Response (C ₀)	0.05	0.12	0.00
Pretest System Cal Response	11.21	10.91	12.43
Posttest System Cal Response	11.21	10.88	12.33
Average Cal Response (C _M)	11.21	10.90	12.38
Corrected Run Average (Corr)	4.42	10.23	NA
16:30	4.42	10.17	
16:31	4.60	10.09	0.71
16:32	4.66	10.06	0.71
16:33	4.62	10.03	0.73
16:34	4.51	10.10	0.71
16:35	4.44	10.17	0.71
16:36	4.48	10.18	0.71
16:37	4.55	10.14	0.70
16:38	4.51	10.12	0.71
16:39	4.49	10.11	0.70
16:40	4.59	10.08	0.71
16:41	4.57	10.13	0.72
16:42	4.57	10.12	0.71
16:43	4.41	10.23	0.66
16:44	4.43	10.15	0.68
16:45	4.61	10.06	0.69
16:46	4.65	10.06	0.69
16:47	4.47	10.17	0.69
16:48	4.52	10.15	0.69
16:49	4.54	10.13	0.69
16:50	4.77	9.97	0.71
16:51	4.69	10.02	0.70
16:52	4.62	10.08	0.68
16:53	4.54	10.15	0.68
16:54	4.63	10.10	0.68
16:55	4.59	10.04	0.69
16:56	4.53	10.09	0.69
16:57	4.54	10.12	0.68
16:58	4.51	10.18	0.68
16:59	4.54	10.15	0.67
17:00	4.51	10.13	0.67
17:01	4.68	10.00	0.70
17:02	4.58	10.08	0.68
17:03	4.69	10.03	0.68
17:04	4.61	10.07	0.68
17:05	4.44	10.18	0.66
17:06	4.52	10.08	0.67
17:07	4.50	10.11	0.67
17:08	4.52	10.11	0.67
17:09	4.48	10.16	0.68
17:10	4.50	10.14	0.68
17:11	4.65	10.01	0.69
17:12	4.83	9.86	0.68
17:13	4.76	9.89	0.69
17:14	4.56	10.05	0.68
17:15	4.50	10.12	0.66
17:16	4.43	10.18	0.66
17:17	4.42	10.12	0.67
17:18	4.48	10.10	0.68
17:19	4.42	10.18	0.66

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.53	10.14	0.70
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.07	0.14	0.00
Posttest System Zero Response	0.03	0.09	0.00
Average Zero Response (C ₀)	0.05	0.12	0.00
Pretest System Cal Response	11.21	10.91	12.43
Posttest System Cal Response	11.21	10.88	12.33
Average Cal Response (C _M)	11.21	10.90	12.38
Corrected Run Average (Corr)	4.42	10.23	NA
17:20	4.49	10.18	0.67
17:21	4.36	10.25	0.67
17:22	4.32	10.25	0.66
17:23	4.41	10.20	0.65
17:24	4.39	10.23	0.64
17:25	4.47	10.20	0.65
17:26	4.60	10.12	0.68
17:27	4.46	10.22	0.67
17:28	4.44	10.17	0.66
17:29	4.54	10.13	0.67
17:30	4.64	10.07	0.67
17:31	4.56	10.13	
17:32	4.48	10.22	
17:33	4.53	10.17	
17:34	4.68	10.04	
17:35	4.74	10.00	
17:36	4.82	9.98	
17:37	4.60	10.12	
17:38	4.61	10.11	
17:39	4.69	9.99	
17:40	4.79	9.94	
17:41	4.68	10.03	
17:42	4.50	10.18	0.65
17:43	4.53	10.15	0.63
17:44	4.47	10.16	0.61
17:45	4.65	10.05	0.63
17:46	4.58	10.11	0.63
17:47	4.49	10.17	0.62
17:48	4.39	10.24	0.61
17:49	4.43	10.24	0.63
17:50	4.56	10.13	0.67
17:51	4.55	10.15	0.67
17:52	4.59	10.12	0.67
17:53	4.68	10.08	0.64
17:54	4.57	10.17	0.65
17:55	4.72	10.04	0.67
17:56	4.59	10.08	0.65
17:57	4.61	10.08	0.64
17:58	4.56	10.16	0.62
17:59	4.63	10.12	0.64
18:00	4.49	10.21	0.65
18:01	4.60	10.08	0.63
18:02	4.58	10.12	0.65
18:03	4.56	10.15	0.62
18:04	4.58	10.16	0.62
18:05	4.48	10.20	0.62
18:06	4.66	10.08	0.62
18:07	4.70	10.04	0.63
18:08	4.61	10.11	0.61
18:09	4.60	10.12	0.61

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.53	10.14	0.70
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.07	0.14	0.00
Posttest System Zero Response	0.03	0.09	0.00
Average Zero Response (C ₀)	0.05	0.12	0.00
Pretest System Cal Response	11.21	10.91	12.43
Posttest System Cal Response	11.21	10.88	12.33
Average Cal Response (C _M)	11.21	10.90	12.38
Corrected Run Average (Corr)	4.42	10.23	NA
18:10	4.50	10.17	0.60
18:11	4.55	10.16	0.63
18:12	4.62	10.06	0.64
18:13	4.64	10.05	0.62
18:14	4.52	10.12	0.60
18:15	4.53	10.16	0.61
18:16	4.53	10.17	0.61
18:17	4.61	10.10	0.61
18:18	4.70	10.01	0.62
18:19	4.56	10.11	0.61
18:20	4.41	10.24	0.62
18:21	4.51	10.19	0.60
18:22	4.42	10.22	0.59
18:23	4.44	10.15	0.61
18:24	4.58	10.10	0.60
18:25	4.65	10.09	0.61
18:26	4.62	10.11	0.61
18:27	4.52	10.17	0.59
18:28	4.51	10.15	0.59
18:29	4.56	10.11	0.61
18:30	4.58	10.10	0.59
18:31	4.35	10.25	0.58
18:32	4.60	10.13	0.61

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
14:00	191.1	1.021	2.09	19.5
14:01	191.2	1.020	2.23	20.4
14:02	191.0	1.020	2.11	20.1
14:03	191.2	1.021	2.05	21.9
14:04	191.1	1.020	2.17	18.9
14:05	191.0	1.020	2.14	20.4
14:06	191.0	1.021	2.09	20.4
14:07	191.0	1.021	2.18	19.6
14:08	190.8	1.020	2.22	18.3
14:09	190.9	1.022	2.13	21.3
14:10	190.9	1.020	2.17	18.3
14:11	190.9	1.020	2.12	19.7
14:12	190.9	1.021	2.13	19.7
14:13	190.9	1.021	2.14	20.6
14:14	190.9	1.020	2.20	18.7
14:16	190.9	1.021	2.11	21.6
14:17	190.9	1.021	2.20	21.1
14:18	191.0	1.022	2.09	20.8
14:19	191.0	1.021	2.10	19.4
14:20	190.9	1.020	2.12	19.2
14:21	190.8	1.021	1.99	21.2
14:22	190.9	1.021	2.19	20.2
14:23	190.9	1.019	2.16	17.7
14:24	190.8	1.021	2.06	21.3
14:25	190.9	1.021	2.08	20.4
14:26	191.0	1.021	2.08	20.1
14:27	190.9	1.021	2.15	20.9
14:28	191.0	1.021	2.15	19.9
14:29	191.0	1.021	2.11	21.6
14:30	191.0	1.020	2.18	19.8
14:31	191.0	1.022	2.03	21.8
14:32	191.0	1.021	2.13	19.0
14:33	191.0	1.021	2.09	20.8
14:34	191.0	1.020	2.02	19.3
14:35	191.0	1.020	2.16	19.6
14:36	191.0	1.020	2.13	19.5
14:37	191.0	1.021	2.12	19.4
14:39	191.0	1.021	2.06	21.1
14:40	191.0	1.021	2.12	20.4
14:41	191.0	1.020	2.16	18.3
14:42	191.0	1.021	2.10	19.1
14:43	191.0	1.021	2.10	21.2
14:44	191.0	1.020	2.22	19.3
14:45	191.0	1.021	2.17	19.9
14:46	191.0	1.021	2.32	20.5
14:47	191.0	1.020	2.22	19.7
14:48	191.0	1.021	2.11	20.3
14:49	191.0	1.020	2.16	21.0
14:50	191.0	1.020	2.15	18.7
14:51	191.0	1.021	2.11	21.5
14:52	191.1	1.020	2.17	19.6
14:53	190.9	1.020	2.25	19.1
14:54	190.9	1.021	2.05	20.6
14:55	191.0	1.021	1.99	21.7
14:56	191.0	1.020	2.10	18.4
14:57	190.9	1.021	2.10	20.4
14:58	191.0	1.020	2.11	18.7
14:59	191.0	1.021	2.03	19.4

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
15:20	190.9	1.020	2.21	18.6
15:21	190.9	1.020	2.17	19.1
15:23	190.9	1.021	2.17	19.9
15:24	190.9	1.020	1.97	20.2
15:25	190.9	1.020	2.15	19.4
15:26	190.9	1.020	2.12	19.9
15:27	190.9	1.020	2.12	21.2
15:28	190.8	1.019	2.12	19.0
15:29	190.9	1.021	2.02	21.4
15:30	190.9	1.020	2.18	19.7
15:31	190.8	1.021	2.03	20.1
15:32	190.8	1.019	2.10	19.1
15:33	190.8	1.021	2.06	21.4
15:34	190.9	1.020	2.17	19.5
15:35	190.9	1.020	2.07	20.3
15:36	190.8	1.020	2.00	20.4
15:37	190.9	1.020	2.05	19.7
15:38	190.8	1.020	2.03	19.2
15:39	190.8	1.020	2.06	20.3
15:40	190.8	1.020	2.06	21.0
15:41	190.9	1.020	2.01	20.7
15:42	190.9	1.020	2.06	19.8
15:43	190.9	1.020	2.12	20.6
15:45	190.9	1.020	2.05	19.6
15:46	190.9	1.020	2.08	20.1
15:47	190.9	1.021	1.97	22.8
15:48	191.0	1.020	2.11	20.1
15:49	190.9	1.019	2.17	18.3
15:50	190.9	1.021	2.15	22.6
15:51	190.9	1.019	2.08	18.7
15:52	190.9	1.020	2.11	20.7
15:53	190.9	1.020	2.11	20.8
15:54	190.9	1.019	2.16	19.2
15:55	190.8	1.020	2.12	19.6
15:56	190.9	1.020	2.10	20.6
15:57	190.9	1.020	2.16	20.1
15:58	190.9	1.020	2.12	20.7
15:59	190.9	1.021	2.17	19.5
16:00	190.8	1.020	2.03	19.0
16:01	190.9	1.020	2.05	21.1
16:02	190.8	1.020	2.04	20.3
16:03	190.9	1.021	2.04	20.7
16:04	190.9	1.021	2.03	19.1
16:05	191.0	1.020	2.06	20.3
16:07	190.9	1.020	2.06	19.9
16:08	190.8	1.020	2.09	18.9
16:09	190.8	1.020	2.14	19.5
16:10	190.9	1.021	1.95	21.1
16:11	190.9	1.021	2.03	20.7
16:12	190.9	1.021	2.05	19.8
16:13	190.9	1.020	2.07	19.8
16:14	190.9	1.020	2.00	21.3
16:15	190.9	1.020	2.06	19.8
16:16	190.9	1.020	2.01	20.9
16:17	190.9	1.020	2.10	20.1
16:33	190.7	1.019	1.98	20.7
16:34	190.9	1.020	2.06	19.1
16:35	190.8	1.019	2.10	19.1

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
16:36	190.8	1.019	1.96	21.5
16:37	190.9	1.020	2.13	20.4
16:38	190.9	1.019	2.25	20.6
16:39	190.9	1.019	2.10	18.3
16:40	190.9	1.019	2.11	19.9
16:41	190.9	1.019	2.03	20.0
16:42	190.9	1.019	2.05	20.5
16:43	190.8	1.019	2.01	20.0
16:44	190.9	1.018	2.05	20.6
16:45	190.8	1.019	2.10	20.3
16:46	190.9	1.019	1.98	20.1
16:47	190.8	1.018	2.02	20.4
16:48	190.9	1.019	1.97	21.0
16:49	190.8	1.018	2.03	19.6
16:50	190.9	1.019	1.97	20.4
16:52	190.9	1.018	1.97	20.0
16:53	190.9	1.018	2.08	20.8
16:54	190.9	1.019	1.99	21.5
16:55	190.9	1.018	1.99	20.7
16:56	190.9	1.018	2.09	19.8
16:57	190.9	1.018	2.03	20.6
16:58	190.8	1.018	2.03	21.4
16:59	191.0	1.018	2.07	20.2
17:00	190.9	1.017	2.09	19.1
17:01	190.8	1.018	2.04	20.0
17:02	190.9	1.018	2.04	21.5
17:03	190.9	1.018	2.00	21.1
17:04	191.0	1.017	2.01	19.9
17:05	190.9	1.018	2.00	21.1
17:06	190.9	1.018	2.07	19.8
17:07	190.8	1.018	2.19	20.2
17:08	190.9	1.018	2.02	19.6
17:09	190.9	1.017	2.01	19.7
17:10	190.9	1.019	2.13	21.5
17:11	191.0	1.018	2.16	19.5
17:12	190.9	1.018	2.15	18.9
17:14	190.9	1.018	2.10	20.3
17:15	190.8	1.018	2.11	19.9
17:16	190.8	1.017	2.01	19.2
17:17	190.8	1.018	2.05	20.8
17:18	190.8	1.018	2.09	20.6
17:19	190.8	1.018	1.99	21.0
17:20	190.9	1.018	2.10	19.6
17:21	190.9	1.018	2.03	20.5
17:22	190.9	1.018	2.03	21.3
17:23	190.9	1.017	2.14	21.1
17:24	190.9	1.018	2.07	21.3
17:25	190.9	1.017	2.10	20.1
17:26	190.8	1.017	2.10	19.6
17:27	190.8	1.018	2.04	20.5
17:28	190.8	1.017	2.11	20.7
17:29	190.8	1.018	2.10	20.7
17:30	191.0	1.018	2.11	20.1
17:49	190.8	1.018	2.24	21.4
17:50	190.8	1.018	2.13	18.7
17:51	190.9	1.019	2.08	21.2
17:52	190.9	1.017	2.14	17.6
17:53	190.8	1.018	2.09	19.6

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
17:54	190.9	1.019	2.06	21.4
17:55	190.9	1.018	2.09	19.5
17:56	190.9	1.017	2.09	20.3
17:58	190.9	1.018	2.14	20.9
17:59	190.9	1.019	2.04	20.8
18:00	190.8	1.019	2.09	20.2
18:01	190.8	1.018	2.08	20.0
18:02	190.9	1.018	1.97	20.6
18:03	190.9	1.018	2.04	20.7
18:04	190.9	1.018	1.98	21.6
18:05	190.9	1.018	2.11	19.8
18:06	190.9	1.017	2.09	20.0
18:07	190.9	1.018	2.02	20.8
18:08	190.9	1.018	2.07	20.4
18:09	190.9	1.018	2.09	19.2
18:10	190.8	1.018	1.95	20.7
18:11	190.9	1.018	1.93	20.6
18:12	191.0	1.017	2.10	20.3
18:13	191.0	1.018	2.00	21.9
18:14	190.9	1.017	2.10	19.1
18:15	190.9	1.018	1.99	22.1
18:16	190.9	1.017	2.15	19.6
18:17	190.9	1.018	2.06	20.0
18:18	190.9	1.019	2.14	20.4
18:20	190.9	1.017	2.11	19.4
18:21	190.9	1.017	2.08	19.4
18:22	190.9	1.018	2.04	20.4
18:23	190.9	1.017	2.12	19.7
18:24	190.9	1.018	2.05	20.7
18:25	190.9	1.018	2.07	21.5
18:26	190.9	1.018	2.08	20.3
18:27	190.9	1.018	2.02	19.9
18:28	190.9	1.018	2.13	20.2
18:29	190.8	1.017	2.18	20.2
18:30	190.9	1.018	2.00	20.5
18:31	190.9	1.018	1.96	20.5
18:32	190.8	1.018	2.18	19.5
Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	190.9	1.019	2.09	20.2

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/10/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.66	10.95	0.12
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.10	0.07	0.00
Posttest System Zero Response	0.01	0.07	0.04
Average Zero Response (C _o)	0.06	0.07	0.02
Pretest System Cal Response	11.34	11.27	12.55
Posttest System Cal Response	11.27	11.02	12.63
Average Cal Response (C _M)	11.31	11.15	12.59
Corrected Run Average (Corr)	4.51	10.81	NA
8:15	4.44	10.59	0.30
8:16	4.57	10.47	0.30
8:17	4.45	10.51	0.30
8:18	4.57	10.42	0.30
8:19	4.55	10.43	0.30
8:20	4.67	10.37	0.30
8:21	4.61	10.40	0.29
8:22	4.56	10.44	0.30
8:23	4.64	10.37	0.30
8:24	4.65	10.32	0.29
8:25	4.81	10.20	0.30
8:26	4.65	10.27	0.31
8:27	4.48	10.37	0.31
8:28	4.72	10.21	0.31
8:29	4.73	10.19	0.31
8:30	4.63	10.22	0.30
8:31	4.62	10.22	0.30
8:32	4.58	10.28	0.29
8:33	4.62	10.27	0.29
8:34	4.49	10.40	0.27
8:35	4.47	10.35	0.27
8:36	4.49	10.35	0.27
8:37	4.65	10.32	0.27
8:38	4.61	10.42	0.26
8:39	4.74	10.42	0.26
8:40	4.68	10.48	0.25
8:41	4.91	10.36	0.26
8:42	4.75	10.51	0.25
8:43	4.79	10.57	0.24
8:44	4.65	10.68	0.24
8:45	4.81	10.59	0.25
8:46	4.78	10.63	0.25
8:47	4.91	10.66	0.25
8:48	5.09	10.61	0.26
8:49	4.82	10.80	0.24
8:50	4.90	10.75	0.24
8:51	4.88	10.77	0.22
8:52	4.74	10.84	0.19
8:53	4.69	10.91	0.17
8:54	4.43	11.09	0.15
8:55	4.26	11.23	0.13
8:56	4.37	11.19	0.11
8:57	4.27	11.26	0.10
8:58	4.51	11.20	0.09
8:59	4.51	11.16	0.07
9:00	4.34	11.28	0.04
9:01	4.44	11.23	0.02
9:02	4.40	11.14	0.01
9:03	4.50	11.03	0.01
9:04	4.46	11.08	0.01

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/10/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.66	10.95	0.12
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.10	0.07	0.00
Posttest System Zero Response	0.01	0.07	0.04
Average Zero Response (C ₀)	0.06	0.07	0.02
Pretest System Cal Response	11.34	11.27	12.55
Posttest System Cal Response	11.27	11.02	12.63
Average Cal Response (C _M)	11.31	11.15	12.59
Corrected Run Average (Corr)	4.51	10.81	NA
9:05	4.26	11.19	0.00
9:06	4.17	11.22	0.00
9:07	4.27	11.19	0.00
9:08	4.24	11.17	0.00
9:09	4.25	11.12	0.00
9:10	4.37	11.07	0.00
9:11	4.23	11.10	0.00
9:12	4.46	11.00	0.00
9:13	4.19	11.12	0.00
9:14	4.43	10.90	0.00
9:15	4.26	11.07	
9:16	4.23	11.06	
9:17	4.17	11.17	
9:18	4.16	11.16	
9:19	4.26	11.05	
9:20	4.41	10.95	
9:21	4.45	10.99	
9:22	4.50	10.90	
9:23	4.62	10.90	
9:24	4.67	10.79	
9:25	4.72	10.76	
9:26	4.69	10.80	0.00
9:27	4.66	10.84	0.00
9:28	4.66	10.86	0.00
9:29	4.64	10.86	0.00
9:30	4.56	10.83	0.00
9:31	4.67	10.77	0.00
9:32	4.61	10.79	0.00
9:33	4.67	10.78	0.00
9:34	4.58	10.85	0.00
9:35	4.69	10.72	0.00
9:36	4.69	10.75	0.00
9:37	4.77	10.68	0.00
9:38	4.73	10.77	0.00
9:39	4.68	10.75	0.00
9:40	4.67	10.83	0.00
9:41	4.64	10.71	0.00
9:42	4.58	10.83	0.00
9:43	4.63	10.78	0.00
9:44	4.59	10.85	0.00
9:45	4.65	10.84	0.00
9:46	4.87	10.76	0.00
9:47	5.05	10.58	0.00
9:48	5.09	10.62	0.00
9:49	5.07	10.75	0.00
9:50	5.05	10.69	0.00
9:51	5.17	10.71	0.00
9:52	5.04	10.72	0.00
9:53	5.01	10.83	0.00
9:54	5.02	10.85	0.00

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/10/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.66	10.95	0.12
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.10	0.07	0.00
Posttest System Zero Response	0.01	0.07	0.04
Average Zero Response (C ₀)	0.06	0.07	0.02
Pretest System Cal Response	11.34	11.27	12.55
Posttest System Cal Response	11.27	11.02	12.63
Average Cal Response (C _M)	11.31	11.15	12.59
Corrected Run Average (Corr)	4.51	10.81	NA
9:55	4.92	10.93	0.00
9:56	4.92	11.05	0.00
9:57	4.85	11.04	0.00
9:58	5.02	10.94	0.00
9:59	4.89	11.09	0.00
10:00	4.89	11.09	0.00
10:01	4.76	11.14	0.00
10:02	4.81	11.15	0.00
10:03	4.77	11.06	0.00
10:04	4.94	10.92	0.00
10:05	4.66	11.20	0.00
10:06	4.61	11.13	0.00
10:07	4.72	11.16	0.00
10:08	4.57	11.11	0.00
10:09	4.64	11.02	0.00
10:10	4.53	11.14	0.00
10:11	4.37	11.16	0.00
10:12	4.19	11.33	0.00
10:13	4.40	11.20	0.00
10:14	4.44	11.08	0.00
10:15	4.61	11.00	0.00
10:16	4.59	11.01	0.00
10:17	4.25	11.25	0.00
10:18	4.44	11.13	0.00
10:19	4.35	11.09	0.00
10:20	4.26	11.16	0.00
10:21	4.17	11.20	0.00
10:22	4.38	11.07	0.00
10:23	4.41	11.12	0.00
10:24	4.40	11.11	0.00
10:25	4.56	11.01	0.00
10:26	4.55	11.05	
10:27	4.72	10.95	
10:28	4.83	10.95	
10:29	5.03	10.85	
10:30	5.02	10.81	
10:31	5.08	10.82	
10:32	5.09	10.87	
10:33	5.04	11.02	
10:34	5.05	11.09	
10:35	5.03	11.09	
10:36	5.10	11.14	
10:37	4.95	11.21	
10:38	4.92	11.19	0.10
10:39	4.85	11.30	0.10
10:40	4.89	11.24	0.10
10:41	4.79	11.29	0.10
10:42	4.82	11.36	0.10
10:43	5.03	11.02	0.10
10:44	4.93	11.16	0.10

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/10/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.66	10.95	0.12
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.10	0.07	0.00
Posttest System Zero Response	0.01	0.07	0.04
Average Zero Response (C ₀)	0.06	0.07	0.02
Pretest System Cal Response	11.34	11.27	12.55
Posttest System Cal Response	11.27	11.02	12.63
Average Cal Response (C _M)	11.31	11.15	12.59
Corrected Run Average (Corr)	4.51	10.81	NA
10:45	4.82	11.20	0.11
10:46	4.74	11.14	0.11
10:47	4.58	11.33	0.10
10:48	4.57	11.13	0.10
10:49	4.55	11.17	0.10
10:50	4.54	11.21	0.10
10:51	4.79	11.00	0.10
10:52	4.70	11.03	0.10
10:53	4.60	11.10	0.10
10:54	4.63	10.95	0.10
10:55	4.48	11.08	0.10
10:56	4.64	11.02	0.10
10:57	4.54	11.08	0.10
10:58	4.49	11.02	0.10
10:59	4.56	11.06	0.12
11:00	4.58	11.07	0.11
11:01	4.70	11.04	0.11
11:02	4.70	11.09	0.12
11:03	4.66	11.13	0.13
11:04	4.96	11.07	0.12
11:05	4.77	11.08	0.12
11:06	4.73	11.26	0.13
11:07	4.69	11.32	0.12
11:08	4.73	11.23	0.12
11:09	4.85	11.12	0.12
11:10	4.92	11.23	0.13
11:11	4.87	11.12	0.12
11:12	4.74	11.28	0.11
11:13	5.12	10.91	0.13
11:14	5.05	10.95	0.13
11:15	4.87	10.93	0.13
11:16	4.77	10.96	0.13
11:17	4.49	11.14	0.12
11:18	4.50	11.09	0.11
11:19	4.46	11.16	0.12
11:20	4.52	11.02	0.13
11:21	4.55	10.98	0.13
11:22	4.54	11.00	0.11
11:23	4.61	10.95	0.12
11:24	4.59	10.94	0.13
11:25	4.63	10.92	0.13
11:26	4.66	10.83	0.13
11:27	4.50	10.98	0.13
11:28	4.62	10.91	0.13
11:29	4.60	10.99	0.14
11:30	4.62	11.04	0.14
11:31	4.62	10.92	0.15
11:32	4.70	10.95	0.15
11:33	4.67	11.08	0.15
11:34	4.75	11.05	0.15

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/10/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.66	10.95	0.12
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.10	0.07	0.00
Posttest System Zero Response	0.01	0.07	0.04
Average Zero Response (C ₀)	0.06	0.07	0.02
Pretest System Cal Response	11.34	11.27	12.55
Posttest System Cal Response	11.27	11.02	12.63
Average Cal Response (C _M)	11.31	11.15	12.59
Corrected Run Average (Corr)	4.51	10.81	NA
11:35	4.80	11.04	0.15
11:36	4.67	11.18	0.15
11:37	4.84	10.98	0.15
11:38	4.78	11.14	
11:39	4.74	11.21	
11:40	4.79	11.17	
11:41	4.77	11.21	
11:42	4.73	11.23	
11:43	4.76	11.08	
11:44	4.79	11.10	
11:45	4.74	11.16	
11:46	4.73	11.00	
11:47	4.73	11.10	
11:48	4.79	10.91	
11:49	4.73	11.01	0.13
11:50	4.61	11.05	0.13
11:51	4.65	10.99	0.15
11:52	4.60	11.01	0.14
11:53	4.69	10.86	0.15
11:54	4.70	10.82	0.14
11:55	4.58	11.00	0.13
11:56	4.54	10.90	0.15
11:57	4.54	10.98	0.15
11:58	4.58	11.02	0.15
11:59	4.66	10.82	0.15
12:00	4.68	10.87	0.15
12:01	4.71	10.95	0.15
12:02	4.63	10.91	0.15
12:03	4.66	11.00	0.14
12:04	4.72	10.97	0.15
12:05	4.67	10.92	0.14
12:06	4.74	11.06	0.15
12:07	4.86	10.93	0.15
12:08	4.76	11.14	0.15
12:09	4.67	11.06	0.16
12:10	4.86	11.00	0.16
12:11	4.82	11.06	0.16
12:12	4.80	11.09	0.15
12:13	4.84	11.05	0.15
12:14	4.78	11.14	0.15
12:15	4.89	11.03	0.16
12:16	4.71	11.12	0.15
12:17	4.68	11.26	0.16
12:18	4.79	11.03	0.17
12:19	4.57	11.24	0.16
12:20	4.54	11.13	0.15
12:21	4.57	11.14	0.15
12:22	4.66	10.97	0.15
12:23	4.63	11.08	0.15
12:24	4.51	11.02	0.17

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/10/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmw Valid
Uncorrected Run Average (C _{obs})	4.66	10.95	0.12
Cal Gas Concentration (C _{MA})	11.00	11.00	12.50
Pretest System Zero Response	0.10	0.07	0.00
Posttest System Zero Response	0.01	0.07	0.04
Average Zero Response (C ₀)	0.06	0.07	0.02
Pretest System Cal Response	11.34	11.27	12.55
Posttest System Cal Response	11.27	11.02	12.63
Average Cal Response (C _M)	11.31	11.15	12.59
Corrected Run Average (Corr)	4.51	10.81	NA
12:25	4.54	11.08	0.17
12:26	4.62	11.06	0.18
12:27	4.71	10.89	0.17
12:28	4.53	11.05	0.17
12:29	4.66	10.96	0.19
12:30	4.54	11.09	0.19
12:31	4.62	10.99	0.19
12:32	4.77	10.87	0.19
12:33	4.60	11.06	0.19
12:34	4.64	11.13	0.19
12:35	4.65	11.14	0.19
12:36	4.70	11.10	0.19
12:37	4.84	11.08	0.19
12:38	4.88	11.03	0.19
12:39	4.94	11.06	0.20
12:40	4.85	11.13	0.19
12:41	4.74	11.27	0.19
12:42	4.58	11.28	0.19

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/10/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
8:15	191.1	1.027	2.03	22.0
8:16	191.0	1.026	2.07	20.5
8:17	190.9	1.025	2.02	20.3
8:18	190.9	1.026	1.97	20.7
8:19	190.9	1.025	2.11	19.9
8:21	190.9	1.025	2.04	19.8
8:22	190.9	1.026	1.96	22.4
8:23	191.0	1.023	2.23	17.5
8:24	190.9	1.025	2.20	18.9
8:25	190.9	1.025	2.16	20.5
8:26	191.0	1.025	2.17	19.9
8:27	190.9	1.024	2.15	18.2
8:28	190.9	1.025	2.11	21.5
8:29	190.9	1.025	2.19	18.6
8:30	191.0	1.026	2.10	19.8
8:31	190.9	1.024	2.23	18.9
8:32	191.0	1.025	2.11	20.1
8:33	191.0	1.025	2.21	18.8
8:34	190.9	1.024	2.13	19.0
8:35	190.9	1.024	2.24	18.8
8:36	190.9	1.025	2.09	20.0
8:37	190.9	1.024	2.09	20.2
8:38	190.9	1.025	2.10	20.5
8:39	190.9	1.024	2.16	18.8
8:40	190.9	1.025	2.15	20.2
8:41	190.9	1.024	2.11	19.4
8:43	190.9	1.025	2.13	18.8
8:44	190.9	1.026	2.06	21.7
8:45	191.0	1.024	2.89	16.8
8:46	190.8	1.024	3.08	18.3
8:47	191.1	1.025	2.11	21.3
8:48	191.0	1.025	2.14	18.5
8:49	191.0	1.025	2.08	19.6
8:50	191.0	1.025	2.16	19.5
8:51	191.0	1.025	2.18	17.8
8:52	190.9	1.024	2.14	18.3
8:53	191.0	1.025	2.13	18.4
8:54	190.9	1.026	2.22	19.6
8:55	190.9	1.023	2.16	18.2
8:56	191.0	1.025	2.03	18.1
8:57	190.9	1.025	2.14	19.2
8:58	190.9	1.023	2.18	18.3
8:59	190.9	1.026	2.04	20.3
9:00	191.0	1.026	1.98	21.5
9:01	191.0	1.024	2.09	17.6
9:02	190.9	1.024	2.07	18.4
9:03	191.0	1.025	2.14	18.7
9:04	191.0	1.025	2.12	18.8
9:06	190.9	1.024	2.08	17.4
9:07	190.9	1.024	2.05	19.0
9:08	190.9	1.023	2.08	17.3
9:09	190.8	1.023	2.05	19.7
9:10	190.9	1.023	1.99	19.8
9:11	190.8	1.023	2.07	18.5
9:12	190.8	1.023	2.02	18.9
9:13	190.8	1.023	1.98	19.1
9:14	190.9	1.024	2.06	19.1
9:28	190.8	1.021	2.00	18.9

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/10/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
9:29	190.8	1.021	1.99	18.4
9:30	190.8	1.022	2.08	19.3
9:31	190.9	1.021	2.03	17.6
9:32	190.8	1.022	2.12	18.4
9:33	190.8	1.023	2.00	20.4
9:34	190.9	1.022	2.10	17.8
9:35	190.9	1.021	2.11	18.3
9:36	191.0	1.022	2.09	18.9
9:37	190.8	1.022	2.84	16.8
9:38	190.9	1.021	2.91	18.1
9:39	191.0	1.022	2.05	19.2
9:40	190.9	1.021	2.74	16.0
9:41	190.9	1.022	2.05	18.9
9:42	190.9	1.022	2.09	18.4
9:43	190.9	1.022	2.01	17.9
9:44	190.9	1.021	2.04	18.5
9:45	190.9	1.022	2.72	17.2
9:46	190.9	1.022	2.16	17.7
9:47	190.8	1.023	2.02	21.0
9:48	190.9	1.021	2.57	15.6
9:50	190.8	1.022	2.80	16.7
9:51	190.9	1.022	2.06	19.2
9:52	190.8	1.021	2.84	16.7
9:53	190.9	1.021	2.82	17.3
9:54	190.8	1.021	2.13	16.9
9:55	190.9	1.021	2.81	16.9
9:56	190.8	1.021	2.82	17.9
9:57	190.8	1.021	2.08	17.5
9:58	190.9	1.022	1.94	19.5
9:59	190.9	1.021	2.02	18.2
10:00	190.9	1.021	2.07	18.2
10:01	190.9	1.022	1.98	18.8
10:02	190.9	1.022	2.03	18.5
10:03	190.9	1.022	2.06	18.5
10:04	190.8	1.021	2.19	17.3
10:05	190.9	1.021	2.05	17.8
10:06	190.9	1.021	2.01	18.5
10:07	190.9	1.022	2.00	19.2
10:08	190.8	1.022	2.04	18.5
10:09	190.8	1.022	1.96	19.5
10:10	190.9	1.022	2.14	18.2
10:12	190.9	1.021	2.12	18.2
10:13	190.8	1.023	2.03	21.2
10:14	190.8	1.022	2.11	18.2
10:15	190.9	1.022	2.02	19.0
10:16	190.9	1.023	2.03	19.0
10:17	190.9	1.023	2.01	19.3
10:18	190.9	1.023	2.04	19.5
10:19	190.9	1.021	2.70	17.1
10:20	190.9	1.022	2.79	17.3
10:21	190.8	1.022	2.04	19.1
10:22	190.9	1.022	2.12	19.5
10:23	190.9	1.022	2.02	18.4
10:24	190.8	1.022	2.00	19.0
10:25	190.9	1.022	2.16	17.7
10:40	190.6	1.021	2.18	17.6
10:41	190.7	1.023	1.95	19.0
10:42	190.7	1.021	2.13	17.3

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/10/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
10:43	190.7	1.022	2.04	18.1
10:44	190.7	1.023	2.00	19.0
10:45	190.8	1.023	2.07	19.5
10:46	190.7	1.022	2.05	18.4
10:47	190.8	1.022	1.96	19.0
10:48	190.7	1.022	2.12	17.9
10:49	190.7	1.022	1.98	19.9
10:50	190.8	1.022	2.08	18.2
10:51	190.8	1.023	1.95	19.5
10:52	190.8	1.022	2.01	18.8
10:53	190.8	1.022	2.04	18.3
10:54	190.7	1.022	2.01	18.4
10:56	190.7	1.023	1.87	20.6
10:57	190.9	1.023	1.93	18.6
10:58	190.8	1.023	1.97	19.3
10:59	190.8	1.022	1.94	18.3
11:00	190.8	1.022	2.00	20.2
11:01	190.8	1.022	2.06	18.7
11:02	190.7	1.022	2.02	18.2
11:03	190.8	1.023	1.90	20.0
11:04	190.8	1.022	1.98	18.2
11:05	190.8	1.022	1.95	19.8
11:06	190.8	1.022	1.98	18.1
11:07	190.8	1.022	2.01	19.6
11:08	190.7	1.022	2.04	18.2
11:09	190.7	1.022	1.98	18.7
11:10	190.8	1.022	1.98	18.5
11:11	190.8	1.023	2.05	18.6
11:12	190.8	1.022	2.02	19.0
11:13	190.8	1.022	1.94	18.6
11:14	190.8	1.023	2.08	18.6
11:15	190.8	1.023	1.99	19.1
11:16	190.8	1.022	1.98	19.1
11:18	190.9	1.022	2.01	18.3
11:19	190.8	1.023	2.03	19.6
11:20	190.8	1.022	1.97	19.1
11:21	190.8	1.022	1.94	19.1
11:22	190.8	1.022	2.02	18.9
11:23	190.8	1.022	1.93	18.3
11:24	190.8	1.022	1.92	19.0
11:25	190.8	1.022	2.02	18.7
11:26	190.9	1.022	2.02	19.2
11:27	190.8	1.023	2.03	18.4
11:28	190.8	1.022	2.02	19.0
11:29	190.9	1.022	2.04	19.6
11:30	190.8	1.022	2.01	17.7
11:31	190.8	1.022	2.06	18.2
11:32	190.8	1.023	1.90	19.7
11:33	190.8	1.022	2.05	18.3
11:34	190.9	1.022	2.03	19.1
11:35	190.8	1.023	2.04	19.6
11:36	190.8	1.022	2.01	17.5
11:37	190.8	1.022	2.00	18.9
11:51	190.7	1.021	2.05	17.6
11:52	190.8	1.022	2.08	17.8
11:53	190.7	1.022	1.95	17.7
11:54	190.8	1.022	2.03	20.1
11:55	190.8	1.022	2.77	16.7

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/10/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
11:56	190.8	1.022	2.93	17.8
11:57	190.8	1.022	2.16	18.4
11:58	190.8	1.021	2.13	17.7
11:59	190.8	1.023	2.15	19.6
12:00	190.8	1.022	2.18	17.4
12:01	190.8	1.022	2.07	18.1
12:03	190.9	1.023	2.01	20.3
12:04	190.9	1.021	2.18	18.9
12:05	190.9	1.023	2.03	20.1
12:06	190.9	1.022	2.02	17.9
12:07	190.8	1.022	2.11	18.1
12:08	190.8	1.022	2.08	18.6
12:09	190.8	1.022	2.67	17.0
12:10	190.7	1.022	2.01	18.9
12:11	190.8	1.022	2.01	19.6
12:12	190.8	1.022	2.08	18.4
12:13	190.8	1.022	2.05	18.7
12:14	190.8	1.022	1.97	18.8
12:15	190.8	1.022	1.98	18.2
12:16	190.7	1.022	2.14	18.7
12:17	190.8	1.021	2.05	18.7
12:18	190.8	1.021	2.08	19.6
12:19	190.8	1.021	2.04	18.8
12:20	190.8	1.021	2.08	17.5
12:21	190.8	1.022	1.97	20.1
12:22	190.8	1.021	2.03	17.3
12:23	190.8	1.022	2.06	20.1
12:25	190.8	1.022	2.00	20.9
12:26	190.9	1.022	2.80	16.9
12:27	190.7	1.021	2.82	17.7
12:28	190.8	1.021	2.03	19.4
12:29	190.8	1.021	2.12	18.3
12:30	190.8	1.022	2.08	20.0
12:31	190.8	1.022	2.09	19.2
12:32	190.8	1.021	2.07	19.1
12:33	190.8	1.021	2.05	18.6
12:34	190.8	1.021	2.10	18.9
12:35	190.8	1.021	2.76	16.9
12:36	190.8	1.022	2.07	19.5
12:37	190.8	1.022	2.06	20.1
12:38	190.8	1.022	2.06	18.9
12:39	190.7	1.021	2.12	18.8
12:40	190.8	1.022	2.03	20.1
12:41	190.8	1.021	2.11	17.9
12:42	190.8	1.022	2.07	19.5

Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	190.8	1.023	2.12	18.8

Appendix D


Location **BASF - Geismar, LA**

Source **No. 3 Boiler EQT0161/UTL15**

Project No. **AST-2024-2573**

Parameters **PAH, PCB**

Date	Nozzle ID	Nozzle Diameter (in.)					Criteria	Material
5/6/24	24-2573-1	#1 0.351	#2 0.351	#3 0.350	Dn (Average) 0.351	Difference 0.001	≤ 0.004 in.	glass
Date	Pitot ID	Evidence of damage?	Evidence of mis-alignment?	Calibration or Repair required?				
5/6/24	17-3-2	no	no	no				
Date	Probe or Thermocouple ID	Reference Temp. (°F)	Indicated Temp. (°F)	Difference	Criteria	Probe Length		
5/6/24	17-3-2	85.0	84.0	0.2%	± 1.5 % (absolute)	3 '		
Field Balance Check								
Date	05/06/24	05/07/24	05/08/24	05/09/24	05/10/24			
Balance ID:	ML24-L-1	ML24-L-1	ML24-L-1	ML24-L-1	ML24-L-1			
Certified Weight ID:	DEC-2kg-3	DEC-2kg-3	DEC-2kg-3	DEC-2kg-3	DEC-2kg-3			
Certified Weight Expiration:	10/16/24	10/16/24	10/16/24	10/16/24	10/16/24			
Certified Weight (g):	2000.0	2000.0	2000.0	2000.0	2000.0			
Measured Weight (g):	1999.7	1999.8	1999.8	1999.9	1999.8			
Weight Difference (g):	0.3	0.2	0.2	0.1	0.2	--		
Date	Barometric Pressure	Evidence of damage?	Reading Verified	Calibration or Repair required?	Barometer ID			
5/6/24	Barometer	No	Yes	No	BTR-B7			
Date	Meter Box ID	Positive Pressure Leak Check						
5/6/24	BTR-2	Pass						
Reagent	Lot#	Field Prep performed	Field Lot	Date	By			
Acetone	232060	No	NA	NA	NA			
Toluene	210218	No	NA	NA	NA			
DI water	L1523	No	NA	NA	NA			

	Pitot Calibration-Wind Tunnel	Document ID	620.002
		Revision	23.0
		Effective Date	01/25/2023
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Equipment Detail

Model: Type S
ID: 17-3-2


Calibration Detail

Time: 19:00
T_s: 74 °F
Pb: 29.98 in. Hg
Std Pitot ID: BTR-STD-REF
C_{pstd}: 0.990

Flow fps	ΔPstd			High Side - "A"			Low Side - "B"		
	Standard	Start	End	ΔPs	Cp(a)	σ	ΔPs	Cp(b)	σ
	in. WC	in. WC	in. WC	in. WC		Deviation	in. WC		Deviation
20	0.09	0.10	0.10	0.15	0.808	0.009	0.15	0.808	0.008
30	0.20	0.20	0.20	0.30	0.808	0.009	0.31	0.795	-0.005
40	0.36	0.36	0.36	0.54	0.808	0.009	0.54	0.808	0.008
50	0.57	0.57	0.57	0.85	0.811	0.012	0.86	0.806	0.006
60	0.82	0.82	0.82	1.30	0.786	-0.013	1.25	0.802	0.002
70	1.11	1.10	1.10	1.75	0.785	-0.014	1.75	0.785	-0.015
80	1.45	1.45	1.45	2.25	0.795	-0.004	2.25	0.795	-0.005
90	1.83	1.85	1.85	2.90	0.791	-0.008	2.85	0.798	-0.002
EPA Method 2 Section 10.1.3 QA/QC									
50	0.57	0.57	0.57	0.85	0.811	0.012	0.86	0.806	0.006
50	0.57	0.57	0.57	0.85	0.811	0.012	0.86	0.806	0.006
Average					0.799	0.010		0.800	0.007
Acceptability Criteria					--	≤ 0.01		--	≤ 0.01
					Cp(a)-Cp(b) ≤ 0.01			Cp(a)-Cp(b) =	

Personnel

Calibrated By: Jason LaCroix
Calibration Date: 5/5/24
Reviewed By: Evan Jones

	Pitot Calibration-Wind Tunnel	Document ID	620.002
		Revision	23.0
		Effective Date	1/25/2023
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Equipment Detail

Model: Type S
ID: 17-3-2


Calibration Detail

Time: 12:15
T_s: 85 °F
Pb: 30.02 in. Hg
Std Pitot ID: BTR-STD-REF
C_{pstd}: 0.990

Flow fps	ΔPstd			High Side - "A"			Low Side - "B"		
	Standard	Start	End	ΔPs	Cp(a)	σ	ΔPs	Cp(b)	σ
	in. WC	in. WC	in. WC	in. WC		Deviation	in. WC		Deviation
20	0.09	0.10	0.10	0.15	0.808	0.007	0.15	0.808	0.008
30	0.20	0.20	0.20	0.30	0.808	0.007	0.31	0.795	-0.005
40	0.36	0.36	0.36	0.55	0.801	0.000	0.55	0.801	0.001
50	0.56	0.56	0.56	0.85	0.804	0.003	0.85	0.804	0.004
60	0.80	0.80	0.80	1.20	0.808	0.007	1.20	0.808	0.008
70	1.09	1.10	1.10	1.70	0.796	-0.005	1.65	0.808	0.008
80	1.42	1.40	1.40	2.20	0.790	-0.011	2.25	0.781	-0.019
90	1.80	1.80	1.80	2.80	0.794	-0.007	2.80	0.794	-0.006
EPA Method 2 Section 10.1.3 QA/QC									
50	0.56	0.56	0.56	0.85	0.804	0.003	0.85	0.804	0.004
50	0.56	0.56	0.56	0.85	0.804	0.003	0.85	0.804	0.004
Average					0.801	0.006		0.800	0.007
Acceptability Criteria					--	≤ 0.01		--	≤ 0.01
					Cp(a)-Cp(b) ≤ 0.01			Cp(a)-Cp(b) =	
								0.001	

Personnel

Calibrated By: Evan Jones
Calibration Date: 8/15/24
Reviewed By: Jason LaCroix

	DGM Calibration-Orifices	Document ID	620.004
		Revision	23.1
		Effective Date	8/29/23
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Equipment Detail - Dry Gas Meter

Console ID: BTR-2
 Meter S/N: BTR-2
 Critical Orifice S/N: CO-1788

Calibration Detail

Initial Barometric Pressure, in. Hg	(P _b)	30.05					
Final Barometric Pressure, in. Hg	(P _{bF})	30.05					
Average Barometric Pressure, in. Hg	(P _b)	30.05					
Critical Orifice ID	(Y)	30	30	20	20	12	12
K' Factor, ft ³ ·R ^{1/2} / in. WC·min	(K')	0.8312	0.8312	0.5414	0.5414	0.3301	0.330
Vacuum Pressure, in. Hg	(V _P)	15.0	15.0	18.0	18.0	20.0	20.0
Initial DGM Volume, ft ³	(V _m)	920.910	940.210	946.910	952.710	971.910	978.910
Final DGM Volume, ft ³	(V _{mF})	926.215	945.579	952.552	958.386	977.144	984.155
Total DGM Volume, ft ³	(V _m)	5.305	5.369	5.642	5.676	5.234	5.245
Ambient Temperature, °F	(T _a)	72	73	73	73	74	74
Initial DGM Temperature, °F	(T _m)	63	64	65	66	67	68
Final DGM Temperature, °F	(T _{mF})	63	65	66	66	68	69
Average DGM Temperature, °F	(T _m)	63	65	66	66	68	69
Elapsed Time	(Θ)	5.00	5.00	8.00	8.00	12.00	12.00
Meter Orifice Pressure, in. WC	(ΔH)	4.00	4.00	1.70	1.70	0.63	0.63
Standard Meter volume, ft ³	(V _{mstd})	5.4327	5.4825	5.7182	5.7472	5.2708	5.2719
Standard Critical Orifice Volume, ft ³	(V _c r)	5.4162	5.4111	5.6392	5.6392	5.1526	5.1526
Meter Correction Factor	(Y)	0.997	0.987	0.986	0.981	0.978	0.977
Tolerance	--	0.013	0.003	0.002	0.003	0.007	0.007
Orifice Calibration Value	(ΔH @)	1.964	1.962	1.951	1.949	1.936	1.932
Tolerance	--	0.015	0.013	0.002	0.000	0.013	0.017
Orifice Cal Check	--	1.48		0.83		1.46	
Meter Correction Factor	(Y)	0.984					
Orifice Calibration Value	(ΔH @)	1.949					
Positive Pressure Leak Check		Yes					

Equipment Detail - Thermocouple Sensor


Reference Calibrator Make: PIECAL
 Reference Calibrator Model: 520B
 Reference Calibrator S/N: 127355

Calibration Detail

Reference Temp.		Display Temp.		Accuracy	Absolute Difference
°F	°R	°F	°R	%	°F
0	460	1	461	-0.2	1
68	528	67	527	0.2	1
100	560	99	559	0.2	1
223	683	225	685	-0.3	2
248	708	250	710	-0.3	2
273	733	275	735	-0.3	2
300	760	302	762	-0.3	2
400	860	401	861	-0.1	1
500	960	501	961	-0.1	1
600	1,060	603	1,063	-0.3	3
700	1,160	705	1,165	-0.4	5
800	1,260	805	1,265	-0.4	5
900	1,360	906	1,366	-0.4	6
1,000	1,460	1,007	1,467	-0.5	7
1,100	1,560	1,108	1,568	-0.5	8
1,200	1,660	1,209	1,669	-0.5	9

Personnel

Calibration By: BRYAN ALLEN
 Calibration Date: 02/29/2024
 Reviewed By: Evan Jones

	DGM Calibration-Orifices	Document ID	620.004
		Revision	24.0
		Effective Date	1/31/24
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Equipment Detail - Dry Gas Meter

Console ID: BTR-2
 Meter S/N: BTR-2
 Critical Orifice S/N: CO-1788

Calibration Detail

Initial Barometric Pressure, in. Hg (P _b)	29.83					
Final Barometric Pressure, in. Hg (P _{bF})	29.83					
Average Barometric Pressure, in. Hg (P _b)	29.83					
Critical Orifice ID (Y)	30	30	20	20	12	12
K' Factor, ft ³ ·R ^{1/2} / in. WC·min (K')	0.8312	0.8312	0.5414	0.541	0.3301	0.330
Vacuum Pressure, in. Hg (V _P)	15.0	15.0	17.0	17.0	17.0	17.0
Initial DGM Volume, ft ³ (V _{mI})	408.310	414.010	420.010	426.710	433.510	439.110
Final DGM Volume, ft ³ (V _{mF})	413.674	419.334	426.325	433.038	438.673	444.277
Total DGM Volume, ft ³ (V _m)	5.364	5.324	6.315	6.328	5.163	5.167
Ambient Temperature, °F (T _a)	73	74	74	74	75	74
Initial DGM Temperature, °F (T _{mI})	74	74	74	74	74	74
Final DGM Temperature, °F (T _{mF})	74	74	74	74	74	74
Average DGM Temperature, °F (T _m)	74	74	74	74	74	74
Elapsed Time (Θ)	5.00	5.00	9.00	9.00	12.00	12.00
Meter Orifice Pressure, in. WC (ΔH)	4.10	4.10	1.90	1.90	0.77	0.77
Standard Meter volume, ft ³ (V _{mstd})	5.3422	5.3023	6.2555	6.2684	5.1002	5.1042
Standard Critical Orifice Volume, ft ³ (V _{cr})	5.3714	5.3664	6.2917	6.2917	5.1101	5.1149
Meter Correction Factor (Y)	1.005	1.012	1.006	1.004	1.002	1.002
Tolerance --	0.000	0.007	0.001	0.001	0.003	0.003
Orifice Calibration Value (ΔH @)	1.990	1.994	2.166	2.166	2.359	2.355
Tolerance --	0.182	0.178	0.006	0.006	0.188	0.183
Orifice Cal Check --	0.67		0.40		0.67	
Meter Correction Factor (Y)	1.005					
Orifice Calibration Value (ΔH @)	2.172					
Positive Pressure Leak Check	Yes					

Equipment Detail - Thermocouple Sensor

Reference Calibrator Make: piecal
 Reference Calibrator Model: 520B
 Reference Calibrator S/N: 127355

Calibration Detail

Reference Temp.		Display Temp.		Accuracy	Absolute Difference
°F	°R	°F	°R	%	°F
0	460	2	462	-0.4	2
68	528	67	527	0.2	1
100	560	99	559	0.2	1
223	683	224	684	-0.1	1
248	708	250	710	-0.3	2
273	733	275	735	-0.3	2
300	760	301	761	-0.1	1
400	860	400	860	0.0	0
500	960	499	959	0.1	1
600	1,060	600	1,060	0.0	0
700	1,160	702	1,162	-0.2	2
800	1,260	801	1,261	-0.1	1
900	1,360	902	1,362	-0.1	2
1,000	1,460	1,002	1,462	-0.1	2
1,100	1,560	1,102	1,562	-0.1	2
1,200	1,660	1,202	1,662	-0.1	2

Personnel

Calibration By: Bryan Allen
 Calibration Date: 8/8/2024
 Reviewed By: Evan Jones

Location BASF - Geismar, LA

Source No. 3 Boiler EQT0161/UTL15

Project No. AST-2024-2573

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Make	CAI	CAI	CAI
Model	700	700	700
S/N	1811021	1811021	1811019
Operating Range	0-25	0-25	0-25
Cylinder ID			
Zero	NA	NA	NA
Low	NA	NA	EB0085389
Mid	EB0100315	EB0100315	EB0085389
High	EB0100315	EB0100315	EB0085389
Cylinder Certified Values			
Zero	NA	NA	NA
Low	NA	NA	87.4
Mid	22.9	22.8	87.4
High	22.9	22.8	87.4
Cylinder Expiration Date			
Zero	NA	NA	NA
Low	NA	NA	10/24/29
Mid	10/8/30	10/8/30	10/24/29
High	10/8/30	10/8/30	10/24/29
Type of Sample Line	Heated Sample Line		

Calibration Data

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/7/24

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Expected Average Concentration	5.00	9.00	0.20
Span Between			
Low	5.00	9.00	0.30
High	25.00	45.00	0.50
Desired Span	22.90	22.80	25.00
Low Range Gas			
Low	NA	NA	6.25
High	NA	NA	8.75
Mid Range Gas			
Low	9.16	9.12	11.25
High	13.74	13.68	13.75
High Range Gas			
Low	NA	NA	20.00
High	NA	NA	22.50
Actual Concentration (% or ppm)			
Zero	0.00	0.00	0.00
Low	NA	NA	7.50
Mid	11.00	11.00	12.50
High	22.90	22.80	21.50
Upscale Calibration Gas (C_{MA})	Mid	Mid	Mid
Instrument Response (% or ppm)			
Zero	0.01	0.00	0.00
Low	NA	NA	7.39
Mid	11.21	11.28	12.54
High	22.92	22.94	21.59
Performance (% of Span or Cal. Gas Conc.)			
Zero	0.04	0.00	0.00
Low	NA	NA	-1.89
Mid	0.92	1.23	-0.10
High	0.09	0.61	0.00
Status			
Zero	PASS	PASS	PASS
Low	NA	NA	PASS
Mid	PASS	PASS	PASS
High	PASS	PASS	PASS

Calibration Data

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/8/24

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Expected Average Concentration	4.68	10.51	0.20
Span Between			
Low	4.68	10.51	0.30
High	23.40	52.55	0.50
Desired Span	22.90	22.80	25.00
Low Range Gas			
Low	NA	NA	6.25
High	NA	NA	8.75
Mid Range Gas			
Low	9.16	9.12	11.25
High	13.74	13.68	13.75
High Range Gas			
Low	NA	NA	20.00
High	NA	NA	22.50
Actual Concentration (% or ppm)			
Zero	0.00	0.00	0.00
Low	NA	NA	7.50
Mid	11.00	11.00	12.50
High	22.90	22.80	21.50
Upscale Calibration Gas (C_{MA})	Mid	Mid	Mid
Instrument Response (% or ppm)			
Zero	0.00	0.00	0.00
Low	NA	NA	7.37
Mid	11.29	11.31	12.53
High	22.91	22.80	21.56
Performance (% of Span or Cal. Gas Conc.)			
Zero	0.00	0.00	0.00
Low	NA	NA	-2.01
Mid	1.27	1.36	-0.04
High	0.04	0.00	0.00
Status			
Zero	PASS	PASS	PASS
Low	NA	NA	PASS
Mid	PASS	PASS	PASS
High	PASS	PASS	PASS

Calibration Data

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/9/24

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Expected Average Concentration	4.68	10.51	0.20
Span Between			
Low	4.68	10.51	0.30
High	23.40	52.55	0.50
Desired Span	22.90	22.80	25.00
Low Range Gas			
Low	NA	NA	6.25
High	NA	NA	8.75
Mid Range Gas			
Low	9.16	9.12	11.25
High	13.74	13.68	13.75
High Range Gas			
Low	NA	NA	20.00
High	NA	NA	22.50
Actual Concentration (% or ppm)			
Zero	0.00	0.00	0.00
Low	NA	NA	7.50
Mid	11.00	11.00	12.50
High	22.90	22.80	21.50
Upscale Calibration Gas (C_{MA})	Mid	Mid	Mid
Instrument Response (% or ppm)			
Zero	0.00	0.00	0.01
Low	NA	NA	7.43
Mid	11.25	11.08	12.53
High	22.92	22.79	21.51
Performance (% of Span or Cal. Gas Conc.)			
Zero	0.00	0.00	0.00
Low	NA	NA	-1.07
Mid	1.09	0.35	0.16
High	0.09	0.04	0.00
Status			
Zero	PASS	PASS	PASS
Low	NA	NA	PASS
Mid	PASS	PASS	PASS
High	PASS	PASS	PASS

Calibration Data

Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date: 5/10/24

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Expected Average Concentration	4.68	10.51	0.20
Span Between			
Low	4.68	10.51	0.30
High	23.40	52.55	0.50
Desired Span	22.90	22.80	25.00
Low Range Gas			
Low	NA	NA	6.25
High	NA	NA	8.75
Mid Range Gas			
Low	9.16	9.12	11.25
High	13.74	13.68	13.75
High Range Gas			
Low	NA	NA	20.00
High	NA	NA	22.50
Actual Concentration (% or ppm)			
Zero	0.00	0.00	0.00
Low	NA	NA	7.50
Mid	11.00	11.00	12.50
High	22.90	22.80	21.50
Upscale Calibration Gas (C_{MA})	Mid	Mid	Mid
Instrument Response (% or ppm)			
Zero	0.00	0.01	0.00
Low	NA	NA	7.38
Mid	11.28	11.29	12.55
High	22.89	22.72	21.48
Performance (% of Span or Cal. Gas Conc.)			
Zero	0.00	0.04	0.00
Low	NA	NA	-1.51
Mid	1.22	1.27	0.49
High	0.04	0.35	0.00
Status			
Zero	PASS	PASS	PASS
Low	NA	NA	PASS
Mid	PASS	PASS	PASS
High	PASS	PASS	PASS

Location: BASF - Geismar, LA

Source: No. 3 Boiler EQT0161/UTL15

Project No.: AST-2024-2573

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Run 1			
Pretest System Zero Response	0.09	0.03	0.00
Posttest System Zero Response	0.22	0.07	0.00
Pretest System Upscale Response	11.25	11.25	12.54
Posttest System Upscale Response	11.34	11.05	12.51
Run 2			
Pretest System Zero Response	0.22	0.07	0.00
Posttest System Zero Response	0.15	0.07	0.00
Pretest System Upscale Response	11.34	11.05	12.51
Posttest System Upscale Response	11.28	11.21	12.27
Run 3			
Pretest System Zero Response	0.04	0.06	0.00
Posttest System Zero Response	0.10	0.06	0.07
Pretest System Upscale Response	11.24	11.26	12.53
Posttest System Upscale Response	11.23	10.95	12.54
Run 4			
Pretest System Zero Response	0.10	0.06	0.07
Posttest System Zero Response	0.10	0.04	0.00
Pretest System Upscale Response	11.23	10.95	12.54
Posttest System Upscale Response	11.26	10.89	12.37
Run 5			
Pretest System Zero Response	0.09	0.17	0.01
Posttest System Zero Response	0.07	0.14	0.00
Pretest System Upscale Response	11.31	11.31	12.53
Posttest System Upscale Response	11.21	10.91	12.43
Run 6			
Pretest System Zero Response	0.07	0.14	0.00
Posttest System Zero Response	0.03	0.09	0.00
Pretest System Upscale Response	11.21	10.91	12.43
Posttest System Upscale Response	11.21	10.88	12.33
Run 7			
Pretest System Zero Response	0.10	0.07	0.00
Posttest System Zero Response	0.01	0.07	0.04
Pretest System Upscale Response	11.34	11.27	12.55
Posttest System Upscale Response	11.27	11.02	12.63

Bias/Drift Determinations

Location: BASF - Geismar, LA

Source: No. 3 Boiler EQT0161/UTL15

Project No.: AST-2024-2573

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Run 1 Date 5/7/24			
Span Value	22.90	22.80	25.00
Initial Instrument Zero Cal Response	0.01	0.00	0.00
Initial Instrument Upscale Cal Response	11.21	11.28	12.54
Pretest System Zero Response	0.09	0.03	0.00
Posttest System Zero Response	0.22	0.07	0.00
Pretest System Upscale Response	11.25	11.25	12.54
Posttest System Upscale Response	11.34	11.05	12.51
Bias (%)			
Pretest Zero	0.35	0.13	NA
Posttest Zero	0.92	0.31	NA
Pretest Span	0.17	-0.13	NA
Posttest Span	0.57	-1.01	NA
Drift (%)			
Zero	0.57	0.18	0.00
Mid	0.39	-0.88	-0.12
Run 2 Date 5/7/24			
Span Value	22.90	22.80	25.00
Instrument Zero Cal Response	0.01	0.00	0.00
Instrument Upscale Cal Response	11.21	11.28	12.53
Pretest System Zero Response	0.22	0.07	0.00
Posttest System Zero Response	0.15	0.07	0.00
Pretest System Upscale Response	11.34	11.05	12.51
Posttest System Upscale Response	11.28	11.21	12.27
Bias (%)			
Pretest Zero	0.92	0.31	NA
Posttest Zero	0.61	0.31	NA
Pretest Span	0.57	-1.01	NA
Posttest Span	0.31	-0.31	NA
Drift (%)			
Zero	-0.31	0.00	0.00
Mid	-0.26	0.70	-0.96
Run 3 Date 5/8/24			
Span Value	22.90	22.80	25.00
Instrument Zero Cal Response	0.00	0.00	0.00
Instrument Upscale Cal Response	11.29	11.31	12.53
Pretest System Zero Response	0.04	0.06	0.00
Posttest System Zero Response	0.10	0.06	0.07
Pretest System Upscale Response	11.24	11.26	12.53
Posttest System Upscale Response	11.23	10.95	12.54
Bias (%)			
Pretest Zero	0.17	0.26	NA
Posttest Zero	0.44	0.26	NA
Pretest Span	-0.22	-0.22	NA
Posttest Span	-0.26	-1.58	NA
Drift (%)			
Zero	0.26	0.00	0.28
Mid	-0.04	-1.36	0.04

Location: BASF - Geismar, LA

Source: No. 3 Boiler EQT0161/UTL15

Project No.: AST-2024-2573

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Run 4 Date 5/8/24			
Span Value	22.90	22.80	25.00
Instrument Zero Cal Response	0.00	0.00	0.00
Instrument Upscale Cal Response	11.29	11.31	12.53
Pretest System Zero Response	0.10	0.06	0.07
Posttest System Zero Response	0.10	0.04	0.00
Pretest System Upscale Response	11.23	10.95	12.54
Posttest System Upscale Response	11.26	10.89	12.37
Bias (%)			
Pretest Zero	0.44	0.26	NA
Posttest Zero	0.44	0.18	NA
Pretest Span	0.26	1.58	NA
Posttest Span	0.13	1.84	NA
Drift (%)			
Zero	0.00	-0.09	-0.28
Mid	0.13	-0.26	-0.68
Run 5 Date 5/9/24			
Span Value	22.90	22.80	25.00
Instrument Zero Cal Response	0.00	0.00	0.01
Instrument Upscale Cal Response	11.25	11.08	12.53
Pretest System Zero Response	0.09	0.17	0.01
Posttest System Zero Response	0.07	0.14	0.00
Pretest System Upscale Response	11.31	11.31	12.53
Posttest System Upscale Response	11.21	10.91	12.43
Bias (%)			
Pretest Zero	0.39	0.75	NA
Posttest Zero	0.31	0.61	NA
Pretest Span	0.26	1.01	NA
Posttest Span	0.17	0.75	NA
Drift (%)			
Zero	-0.09	-0.13	-0.04
Mid	-0.44	-1.75	-0.40
Run 6 Date 5/9/24			
Span Value	22.90	22.80	25.00
Instrument Zero Cal Response	0.00	0.00	0.01
Instrument Upscale Cal Response	11.25	11.08	12.53
Pretest System Zero Response	0.07	0.14	0.00
Posttest System Zero Response	0.03	0.09	0.00
Pretest System Upscale Response	11.21	10.91	12.43
Posttest System Upscale Response	11.21	10.88	12.33
Bias (%)			
Pretest Zero	0.31	0.61	NA
Posttest Zero	0.13	0.39	NA
Pretest Span	0.17	0.75	NA
Posttest Span	0.17	0.88	NA
Drift (%)			
Zero	-0.17	-0.22	0.00
Mid	0.00	-0.13	-0.40

Bias/Drift Determinations

Location: BASF - Geismar, LA

Source: No. 3 Boiler EQT0161/UTL15

Project No.: AST-2024-2573

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Run 7 Date 5/10/24			
Span Value	22.90	22.80	25.00
Instrument Zero Cal Response	0.00	0.01	0.00
Instrument Upscale Cal Response	11.28	11.29	12.55
Pretest System Zero Response	0.10	0.07	0.00
Posttest System Zero Response	0.01	0.07	0.04
Pretest System Upscale Response	11.34	11.27	12.55
Posttest System Upscale Response	11.27	11.02	12.63
Bias (%)			
Pretest Zero	0.44	0.26	NA
Posttest Zero	0.04	0.26	NA
Pretest Span	0.26	0.09	NA
Posttest Span	0.04	1.18	NA
Drift (%)			
Zero	-0.39	0.00	0.16
Mid	-0.31	-1.10	0.32



Red Ball Technical Gas Service
555 Craig Kennedy Way
Shreveport, LA 71107
800-551-8150
PGVP Vendor ID # G12022

EPA PROTOCOL GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0100315	Certification Date:	10/10/2022
Product ID Number:	125372	Expiration Date:	10/08/2030
Cylinder Pressure:	1900 PSIG	MFG Facility:	- Shreveport - LA
COA #	EB0100315.20220803-0	Lot Number:	EB0100315.20220803
Customer PO. NO.:		Tracking Number:	095686587
Customer:		Previous Certification Dates:	

This calibration standard has been certified per the May 2012 EPA Traceability Protocol, Document EPA-600/R-12/531, using procedure G2.

Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle	Assayed On
Carbon Dioxide	22.8 %	±0.10 %	FTIR	10/10/2022
Oxygen	22.9 %	±0.13 %	MPA	08/16/2022
Nitrogen	Balance			

Analytical Measurement Data Available Online.

Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
CC237232	CC237232.20180504	07/21/2026	GMIS	N2	O2	24 %	0.497	071001
EB0097897	EB0097897.20210412	05/18/2030	GMIS	N2	CO2	19.46 %	0.15	C1847810.03

Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
O2	MPA	Thermo	410i	1162980025	08/16/2022
CO2	FTIR	MKS	MKS 2031DJG2EKVS13T	017146467	10/09/2022

SMART-CERT



This is to certify the gases referenced have been calibrated/tested, and verified to meet the defined specifications. This calibration/test was performed using Gases or Scales that are traceable through National Institute of Standards and Technology (NIST) to the International System of Units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration/testing process. The expanded uncertainties use a coverage factor of k=2 to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from Red Ball Technical Gas Services. If not included, the uncertainty of calibrations are available upon request and were taken into account when determining pass or fail.

Jasmine Godfrey

Jasmine Godfrey
Analytical Chemist
Assay Laboratory: Red Ball TGS
Version 02-1-18 Revised on 2018-09-17
BAS-FHWC-Gelsmar-001247



Red Ball Technical Gas Service
555 Craig Kennedy Way
Shreveport, LA 71107
800-551-8150
PGVP Vendor ID # G12021

EPA PROTOCOL GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0085389	Certification Date:	10/26/2021
Product ID Number:	125534	Expiration Date:	10/24/2029
Cylinder Pressure:	1900 PSIG	MFG Facility:	- Shreveport - LA
COA #	EB0085389.20211019-0	Lot Number:	EB0085389.20211019
Customer PO. NO.:		Tracking Number:	084096089
Customer:		Previous Certification Dates:	

This calibration standard has been certified per the May 2012 EPA Traceability Protocol, Document EPA-600/R-12/531, using procedure G2.

Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle	Assayed On
Propane	87.4 PPM	±0.8 PPM	FTIR	10/26/2021
Nitrogen	Balance			

Analytical Measurement Data Available Online.

Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
EB0102900	EB0102900.20171121	03/16/2027	GMIS	N2	C3H8	101.1 PPM	0.442	2644a
EB0102998	EB0102998.20171121	03/16/2027	GMIS	N2	C3H8	100.9 PPM	0.442	2644a

Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
C3H8	FTIR	MKS	MKS 2031DJG2EKVS13T	017146467	10/12/2021

SMART-CERT



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Anthony Cyr
Assistant Operations Manager
Assay Laboratory: Red Ball TGS

Version 02-1-18 Revised on 2018-09-17
BAS-FHWC-Gelsmar-001248



Location: BASF - Geismar, LA
Source: No. 3 Boiler EQT0161/UTL15
Project No.: AST-2024-2573
Date 5/6/24

Method Criteria		EPA
Parameter		O2
	Make	CAI
	Model	700
	S/N	1811021
	Span	22.9
Cylinder Number ID		
	Zero	NA
	Mid	EB0060760
	High	EB0100315
Cylinder Certified Values		
	Zero	0.0
	Mid	11.06
	High	22.9
Instrument Response (% or ppm)		
	Zero	0.0
	Mid	11.3
	High	22.9
Calibration Gas Selection (% of Span)		
	Mid	48.3
	High	100.0
Calibration Error Performance (% of Span)		
	Zero	0.0
	Mid	1.2
	High	0.1
Linearity (% of Range)		
		1.1

Analyzer Make: CAI
Analyzer Model: 700
Analyzer SN: 1811021
Enviroics ID: 9115
Component/Balance Gas: O2/N2
Cylinder Gas ID (Dilution): EB0100315
Cylinder Gas Concentration (Dilution), %: 22.9
Cylinder Gas ID (Mid-Level): EB0060760
Cylinder Gas Concentration (Mid-Level), %: 11.06


Target Mass Flow Contollers	Target Dilution (%)	Target Flow Rate lpm	Target Concentration (%)	Actual Concentration (%)	Injection 1 Analyzer Concentration (%)	Injection 2 Analyzer Concentration (%)	Injection 3 Analyzer Concentration (%)	Average Analyzer Concentration (%)	Difference (%)	Average Error (± 2 %)
10L/10L*	80.0	7.0	18.3	18.3	18.6	18.6	18.6	18.60	0.30	1.7%
10L/10L*	50.0	7.0	11.5	11.5	11.7	11.7	11.7	11.70	0.20	1.7%
10L/1L	20.0	4.0	4.6	4.6	4.6	4.6	4.6	4.58	-0.02	-0.4%
10L/1L	10.0	4.0	2.3	2.3	2.3	2.3	2.3	2.32	0.02	1.0%

*Not all AST Enviroics Units have 2-10L Mass Flow Contollers. For these units the 90% @ 7lpm and 80% @ 7lpm injections will not be conducted.

Average Analyzer Concentration (%)	Injection 1 Error (± 2 %)	Injection 2 Error (± 2 %)	Injection 3 Error (± 2 %)
18.60	0.1%	-0.2%	0.1%
11.70	-0.1%	0.1%	0.0%
4.58	-0.1%	0.1%	-0.1%
2.32	-0.1%	-0.1%	0.3%

Mid-Level Supply Gas Calibration Direct to Analyzer

Calibration Gas Concentration (%)	Injection 1 Analyzer Concentration (%)	Injection 2 Analyzer Concentration (%)	Injection 3 Analyzer Concentration (%)	Average Analyzer Concentration (%)	Difference (%)	Average Error (± 2 %)
11.06	11.3	11.2	11.3	11.26	0.20	1.8%

	Mass Flow Controller Calibration	Document ID	620.009
		Revision	22.0
		Effective Date	12/16/22
		Page	1 of 1
Issuing Department	Tech Services		

Dilution System Make:	EnviroNics
Dilution System Model:	4040
Dilution System S/N:	9115
Calibration Equipment Make:	Alicat Scientific
Calibration Equipment Model:	M-10SLPD/5MM-D/5M, M-1SLPM-D/5M
Flow Cell S/N:	463184
Flow Cell S/N:	463183
Calibration Gas:	Nitrogen
Barometric Pressure, mmHg:	30.27
Ambient Temperature, °F:	65

Mass Flow Controller ID	#1			# 2			# 3		
Size, ccm:	10,000			10,000			1,000		
Make:	Teledyne			Teledyne			Teledyne		
Model:	Hastings EFC-202			Hastings EFC-202			Hastings EFC-202		
S/N:	0963707015			0963707019			0963709002		
	Set Flow cc/min	True Flow cc/min	Difference	Set Flow cc/min	True Flow cc/min	Difference	Set Flow cc/min	True Flow cc/min	Difference
5%	500	513	2.6%	500	514	2.8%	50	51	2.0%
10%	1,000	1,053	5.3%	1,000	1,040	4.0%	100	102	2.0%
20%	2,000	2,110	5.5%	2,000	2,089	4.5%	200	205	2.5%
30%	3,000	3,160	5.3%	3,000	3,122	4.1%	300	306	2.0%
40%	4,000	4,192	4.8%	4,000	4,143	3.6%	400	407	1.8%
50%	5,000	5,213	4.3%	5,000	5,162	3.2%	500	508	1.6%
60%	6,000	6,230	3.8%	6,000	6,172	2.9%	600	608	1.3%
70%	7,000	7,260	3.7%	7,000	7,182	2.6%	700	709	1.3%
80%	8,000	8,225	2.8%	8,000	8,190	2.4%	800	812	1.5%
90%	9,000	9,215	2.4%	9,000	9,192	2.1%	900	915	1.7%
100%	10,000	10,202	2.0%	10,000	10,199	2.0%	1,000	1,020	2.0%

Note: The mass flow controller's calibration values are used by the dilution system's operating software to improve accuracy. These calibrations are not necessarily indicative of the systems overall performance. Performance is verified by conducting a Method 205 prior to each field use.

Calibration Performed By: Bryan Allen

Date: 02/15/2024



Red Ball Technical Gas Service
555 Craig Kennedy Way
Shreveport, LA 71107
800-551-8150
PGVP Vendor ID # G12023

EPA PROTOCOL GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0060760	Certification Date:	11/14/2023
Product ID Number:	125371	Expiration Date:	11/12/2031
Cylinder Pressure:	1900 PSIG	MFG Facility:	- Shreveport - LA
COA #	EB0060760.20231107-0	Lot Number:	EB0060760.20231107
Customer PO. NO.:		Tracking Number:	082989794
Customer:		Previous Certification Dates:	

This calibration standard has been certified per the May 2012 EPA Traceability Protocol, Document EPA-600/R-12/531, using procedure G1.

Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle	Assayed On
Carbon Dioxide	10.91 %	±0.07 %	NDIR	11/14/2023
Oxygen	11.06 %	±0.02 %	MPA	11/14/2023
Nitrogen	Balance			

Analytical Measurement Data Available Online.

Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
CC749243	CC749243.20230228	07/09/2031	GMIS	N2	O2	20.01 %	0.112	SRM 2659a
EB0004315	EB0004315.20201022	04/05/2030	GMIS	N2	CO2	24.75 %	0.237	C2190301.03

Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
CO2	NDIR	Thermo	410i	1162980025	11/13/2023
O2	MPA	Thermo	410i	1162980025	11/14/2023

SMART-CERT



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Gabriel Ouma

Gabriel Ouma
Analytical Chemist
Assay Laboratory: Red Ball TGS
Version 02.1 - Revised on 2018-09-17
BAS-FHWC-Gelsmar-001251



Location BASF - Geismar, LA
Source No. 3 Boiler EQT0161/UTL15
Project No. AST-2024-2573
Dates 5/6/24-5/10/24
Ethylene Cylinder ID EB0055323
Concentration (ppmv) 100
Instrument Outlet MKS 5 (Serial #014995408)

CTS 1	97.73	CTS 7	97.84	AVERAGE	98.00	Greatest Deviation from average	
CTS 2	97.92	CTS 8	97.79	MAX	98.90		0.92%
CTS 3	97.31	CTS 9	97.33	deviation	0.90	Agreement with Assumed Pathlength	
CTS 4	97.69	CTS 10	98.87	MIN	97.31		98.00%
CTS 5	98.23	CTS 11	98.90	deviation	0.69	within 5% no correction required	
CTS 6	97.65	CTS 12	98.72				

CTS 1 Date Time File Temperature (°Pressure Ethylene 5/6/24 14:41:37 BOILER 0013.LAI 190.6 1.001 97.51 5/6/24 14:42:39 BOILER 0014.LAI 190.6 1.001 97.96 5/6/24 14:43:42 BOILER 0015.LAI 190.6 1.000 97.73						CTS 7 Date Time File Temperature (°Pressure Ethylene 5/8/24 13:22:26 BOILER 1169.LAI 190.7 1.001 97.83 5/8/24 13:23:29 BOILER 1170.LAI 190.7 1.001 97.80 5/8/24 13:24:32 BOILER 1171.LAI 190.7 1.000 97.89					
CTS 2 Date Time File Temperature (°Pressure Ethylene 5/6/24 17:38:18 BOILER 0174.LAI 190.7 0.998 97.78 5/6/24 17:39:21 BOILER 0175.LAI 190.7 0.998 98.03 5/6/24 17:40:24 BOILER 0176.LAI 190.7 0.998 97.96						CTS 8 Date Time File Temperature (°Pressure Ethylene 5/8/24 18:48:25 BOILER 1479.LAI 190.7 0.996 97.84 5/8/24 18:49:28 BOILER 1480.LAI 190.6 0.996 97.81 5/8/24 18:50:31 BOILER 1481.LAI 190.6 0.996 97.71					
CTS 3 Date Time File Temperature (°Pressure Ethylene 5/7/24 7:50:02 BOILER 0192.LAI 190.5 1.001 97.37 5/7/24 7:51:05 BOILER 0193.LAI 190.5 1.001 97.25 5/7/24 7:52:08 BOILER 0194.LAI 190.5 1.001 97.31						CTS 9 Date Time File Temperature (°Pressure Ethylene 5/9/24 7:49:15 BOILER 1507.LAI 190.5 0.998 97.33 5/9/24 7:50:18 BOILER 1508.LAI 190.4 0.995 97.44 5/9/24 7:51:21 BOILER 1509.LAI 190.4 0.987 97.23					
CTS 4 Date Time File Temperature (°Pressure Ethylene 5/7/24 14:16:45 BOILER 0560.LAI 190.7 1.001 97.68 5/7/24 14:17:47 BOILER 0561.LAI 190.7 1.001 97.67 5/7/24 14:18:51 BOILER 0562.LAI 190.7 1.001 97.72						CTS 10 Date Time File Temperature (°Pressure Ethylene 5/9/24 19:26:21 BOILER 2170.LAI 190.6 1.005 99.19 5/9/24 19:27:24 BOILER 2171.LAI 190.7 1.005 98.69 5/9/24 19:28:27 BOILER 2172.LAI 190.7 1.004 98.71					
CTS 5 Date Time File Temperature (°Pressure Ethylene 5/7/24 19:15:44 BOILER 0844.LAI 190.8 1.003 98.02 5/7/24 19:16:47 BOILER 0845.LAI 190.7 1.002 98.12 5/7/24 19:17:49 BOILER 0846.LAI 190.7 1.002 98.54						CTS 11 Date Time File Temperature (°Pressure Ethylene 5/10/24 7:57:58 BOILER 2192.LAI 190.5 1.012 98.74 5/10/24 7:59:01 BOILER 2193.LAI 190.5 1.012 98.96 5/10/24 8:00:03 BOILER 2194.LAI 190.5 1.012 98.99					
CTS 6 Date Time File Temperature (°Pressure Ethylene 5/8/24 7:59:35 BOILER 0862.LAI 190.6 1.001 97.22 5/8/24 8:00:38 BOILER 0863.LAI 190.5 1.003 97.74 5/8/24 8:01:41 BOILER 0864.LAI 190.5 1.004 97.97						CTS 12 Date Time File Temperature (°Pressure Ethylene 5/10/24 13:25:16 BOILER 2503.LAI 190.5 1.010 98.88 5/10/24 13:26:19 BOILER 2504.LAI 190.5 1.010 98.67 5/10/24 13:27:21 BOILER 2505.LAI 190.5 1.010 98.61					



Location BASF - Geismar, LA
 Source No. 3 Boiler EQT0161/UTL15
 Project No. AST-2024-2573
 Date 5/6/2024

Spike Cylinder ID	CC761503	Component
Spike Gas concentration	203	Hydrogen Cyanide
Tracer Cylinder ID	CC761503	Component
Tracer Gas concentration	10.7	SF6
Instrument ID Outlet	MKS 5 (Serial #014995408)	

Direct Spike Values

Date	Time	File	Temperature (C)	Pressure	Spike (ppm)	Tracer (ppm)
05/06/24	15:34:33	BOILER_0061.LAB	190.8	1.013	159.70	10.198
05/06/24	15:35:36	BOILER_0062.LAB	190.7	1.013	159.86	10.191
05/06/24	15:36:38	BOILER_0063.LAB	190.7	1.013	159.92	10.197
05/06/24	15:37:41	BOILER_0064.LAB	190.7	1.013	160.01	10.194
05/06/24	15:38:44	BOILER_0065.LAB	190.7	1.013	160.03	10.190
05/06/24	15:39:47	BOILER_0066.LAB	190.7	1.013	160.33	10.197
05/06/24	15:40:50	BOILER_0067.LAB	190.7	1.013	160.29	10.195
Average					160.02	10.195

Native Values

Date	Time	File	Temperature (C)	Pressure	Spike (ppm)	Tracer (ppm)
05/06/24	15:51:18	BOILER_0077.LAB	190.7	1.019	2.57	0.010
05/06/24	15:52:21	BOILER_0078.LAB	190.7	1.020	2.40	0.010
05/06/24	15:53:24	BOILER_0079.LAB	190.7	1.018	2.32	0.010
05/06/24	15:54:27	BOILER_0080.LAB	190.8	1.020	2.42	0.010
05/06/24	15:55:30	BOILER_0081.LAB	190.8	1.020	2.33	0.010
05/06/24	15:57:57	BOILER_0082.LAB	190.8	1.032	2.28	0.010
05/06/24	15:59:00	BOILER_0083.LAB	190.9	1.047	2.55	0.010
Average					2.41	0.010

Spiked values

Date	Time	File	Temperature (C)	Pressure	Spike (ppm)	Tracer (ppm)
05/06/24	17:12:20	BOILER_0151.LAB	190.9	1.031	16.70	0.995
05/06/24	17:13:23	BOILER_0152.LAB	190.9	1.030	17.10	1.014
05/06/24	17:14:26	BOILER_0153.LAB	190.9	1.031	16.88	0.998
05/06/24	17:15:29	BOILER_0154.LAB	190.9	1.030	16.93	0.997
05/06/24	17:16:32	BOILER_0155.LAB	190.9	1.030	16.69	0.995
05/06/24	17:17:34	BOILER_0156.LAB	190.9	1.031	16.54	0.986
05/06/24	17:18:37	BOILER_0157.LAB	190.9	1.031	17.67	1.009
Average					16.93	0.999

Dilution Factor
9.7%

Calculated Spike
17.70

Spike Recovery
95.65%



Red Ball Technical Gas Service
555 Craig Kennedy Way
Shreveport, LA 71107
800-551-8150
PGVP Vendor ID # G12022

CERTIFIED GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0055323	Certification Date:	12/12/2022
Product ID Number:	124838	Expiration Date:	12/11/2024
Cylinder Pressure:	1900 PSIG	MFG Facility:	- Shreveport - LA
COA #	EB0055323.20221130-0	Lot Number:	EB0055323.20221130
Customer PO. NO.:		Tracking Number:	074328615
Customer:		Previous Certification Dates:	

This mixture is for laboratory use only, not for drug, household or other use.
This mixture is certified in Mole % to be within $\pm 2\%$ of the actual number reported with a confidence of 95%.
This mixture was manufactured by scale; weights traceable to N.I.S.T. Certificate #822/266926-02.
Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle
Ethylene	100 PPM	$\pm 2\%$ NIST	FTIR
Nitrogen	Balance		

Analytical Measurement Data Available Online.

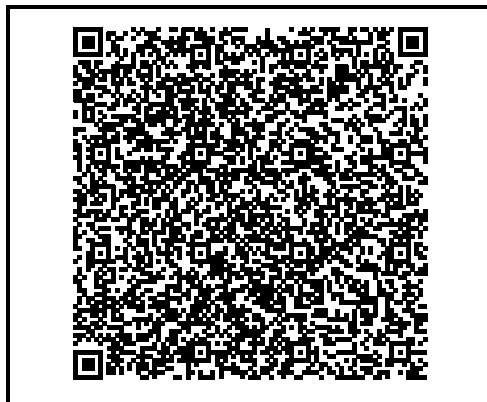
Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
CC518673	CC518673	07/27/2023	PS	N2	C2H4	99.8 PPM	2	4011772

Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
C2H4	FTIR	MKS	MKS 2031DJG2EKVS13T	017146467	

SMART-CERT



This is to certify the gases referenced have been calibrated/tested, and verified to meet the defined specifications. This calibration/test was performed using Gases or Scales that are traceable through National Institute of Standards and Technology (NIST) to the International System of Units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration/testing process. The expanded uncertainties use a coverage factor of $k=2$ to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from Red Ball Technical Gas Services. If not included, the uncertainty of calibrations are available upon request and were taken into account when determining pass or fail.

Aaron Varelas

Aaron Varelas
Analytical Chemist

Assay Laboratory: Red Ball TGS

Version 02-G, Revised on 2017-07-02
BASFWHC-Geismar-001254

SPECGAS, INC.

SPECGAS, Inc.
86 Vincent Circle
Warminster, PA. 18974
Tel. 215 443 2600
Fax. 215 443 2665
WWW.SPECGASINC.COM

CERTIFICATE



ANALYTICAL REPORT-PRODUCT CERTIFICATION

SOLD TO: Red Ball Oxygen
PO Box 7316
Shreveport, LA. 71137-7316

SHIP TO: Houston Store
6200 South Loop East
Houston, TX 77087

DATE: 6/2/23
PO#: 4030556

CERTIFIED STANDARD MIXTURE

CYLINDER #
CC761503

Component		Nominal	Actual
SULFUR HEXAFLUORIDE	SF6	10.0 ppm	10.7 ppm
HYDROGEN CYANIDE	HCN	200 ppm	203 ppm
NITROGEN	N2	Balance	Balance

PRESSURE: 2000 psia

VALVE: CGA 350 s/s

CYL. SIZE: 150A COC

ANALYSIS DATE: 6/2/23

EXPIRATION DATE: 6/2/24

UN 1956, Compressed Gas, N.O.S.

(Hydrogen Cyanide, Nitrogen) 2.2

Emergency Phone #: 1 800 535 5053

SF6:

Blend Tolerance: +/- 10 %

Analytical Tolerance: +/- 5 %

HCN:

Blend Tolerance: +/- 5 %

Analytical Tolerance: +/- 2 %

N.I.S.T.: Mixture was blended on a high resolution Scale (Sartorius Combiics 1, Serial # 29503041) Traceable to N.I.S.T. through test # 221140

4kg wt. (Serial #85424) Standards traceable to N.I.S.T. through weight & measures test # 2267372



Warning

Contains gas under pressure

May explode if heated

May displace oxygen and cause rapid suffocation

ANALYST

DATE

6/2/23

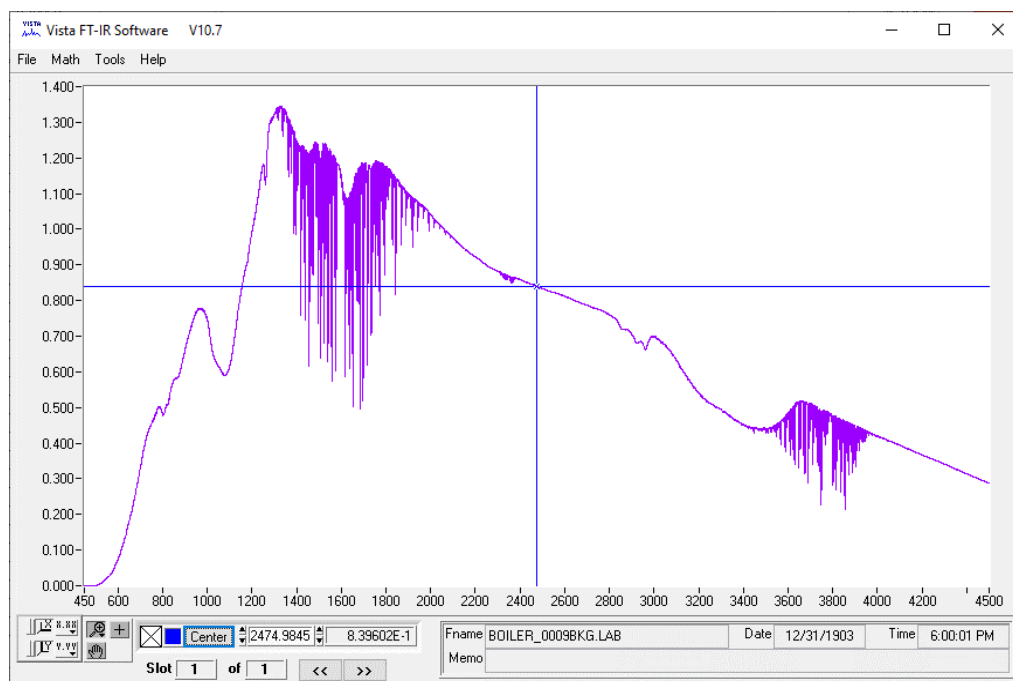
Location	BASF - Geismar, LA
Project No.	AST-2024-2573
Instrument	MKS 5 (Serial #014995408)

Summary of Spikes

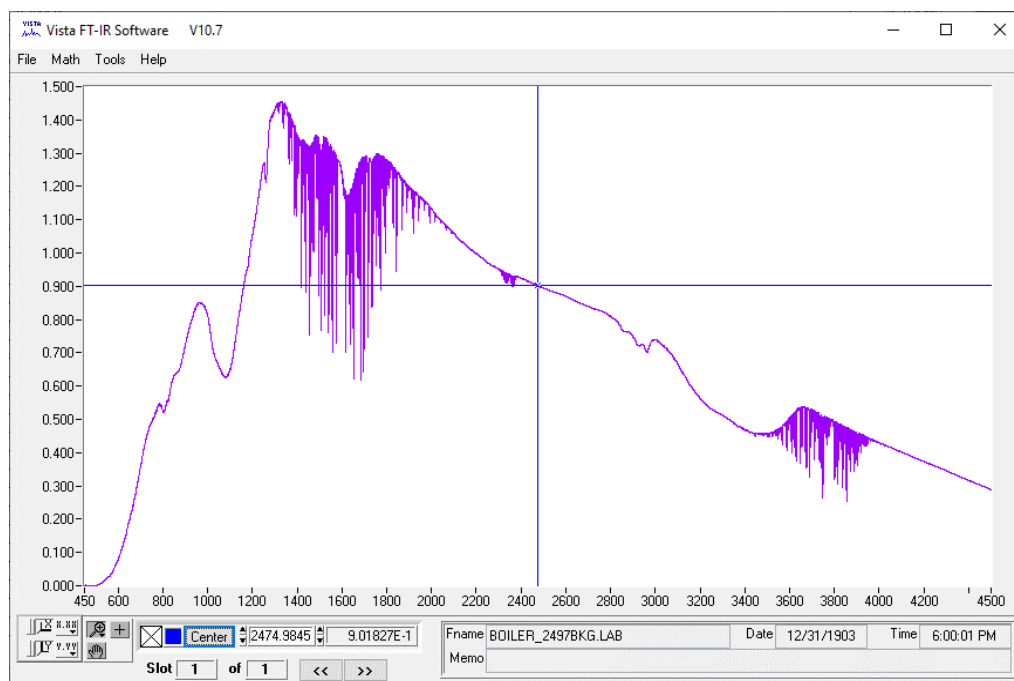
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Date	5/6/24	5/6/24	5/6/24	5/6/24	5/6/24
Time	17:12				
Analyte	Hydrogen Cyanide				
Direct	160.02				
Native	2.41				
Spiked	16.93				
Dilution	9.7%				
Recovery	96%				
Result	PASS				

Source		5/6/24	5/6/24	5/6/24	5/6/24
Date	5/6/24	5/6/24	5/6/24	5/6/24	5/6/24
Time					
Analyte					
Direct					
Native					
Spiked					
Dilution					
Recovery					
Result					

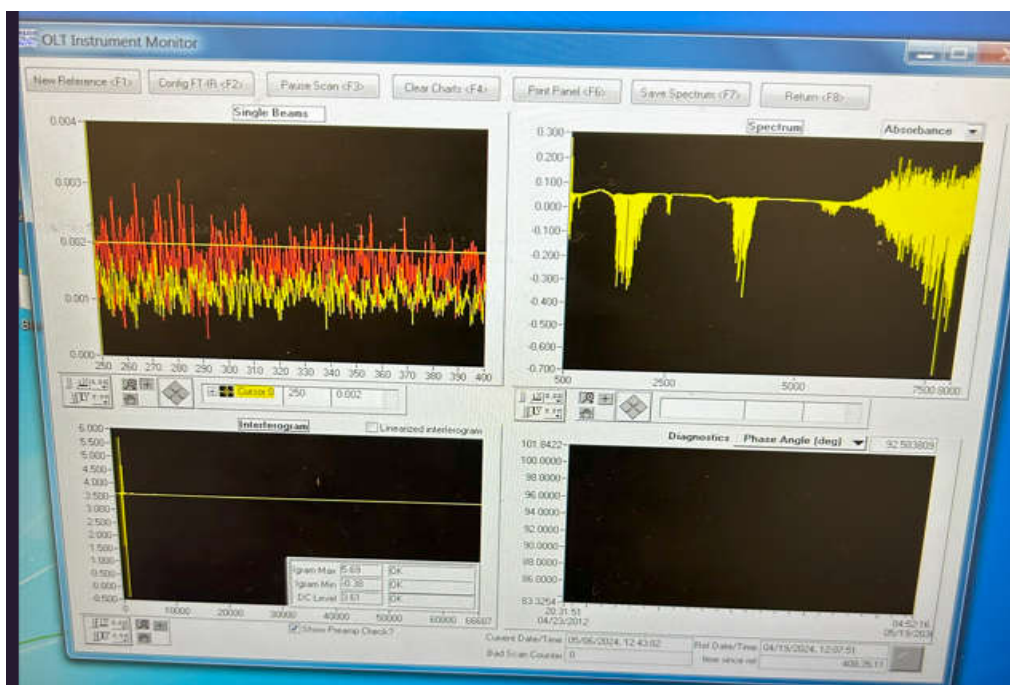
Location	BASF - Geismar, LA
Source	No. 3 Boiler EQT0161/UTL15
Project No.	AST-2024-2573
Health Check Parameter	Single Beam (Pre-Test)
Instrument ID	MKS 5 (Serial #014995408)
Date	5/6/2024



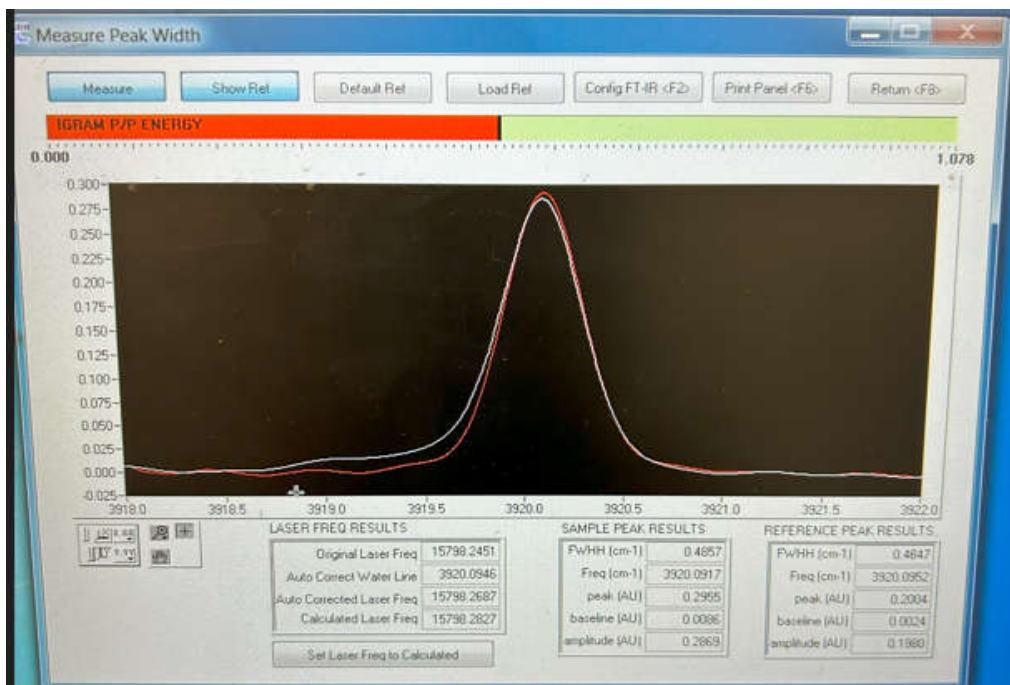
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Source	No. 3 Boiler EQT0161/UTL15
Project No.	AST-2024-2573
Health Check Parameter	Single Beam (Post-Test)
Instrument ID	MKS 5 (Serial #014995408)
Date	5/10/2024



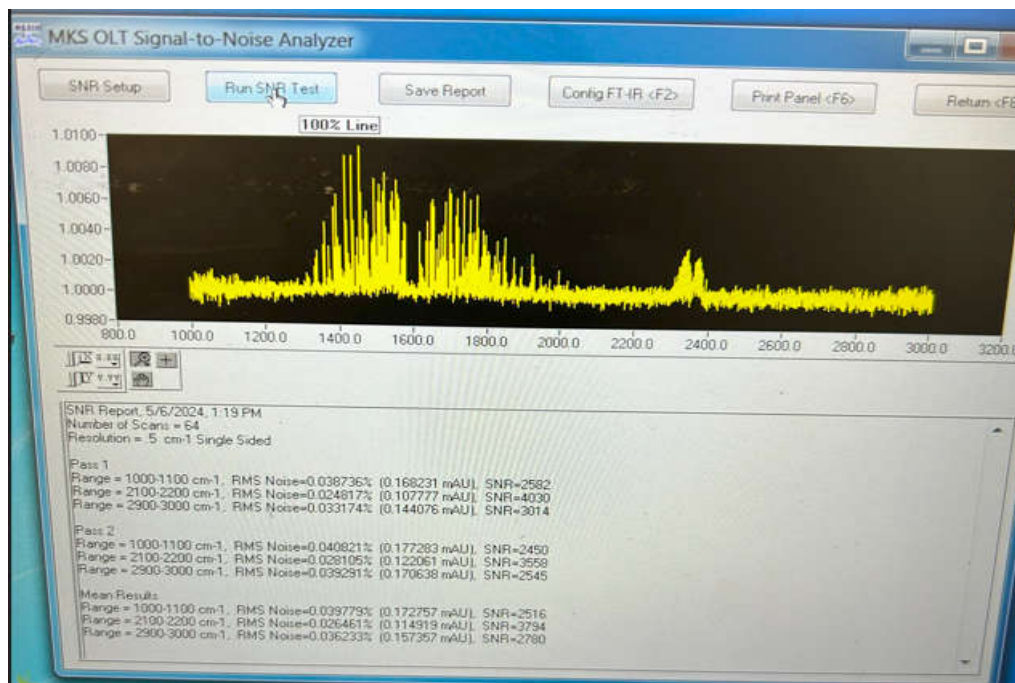
Location	BASF - Geismar, LA
Source	No. 3 Boiler EQT0161/UTL15
Project No.	AST-2024-2573
Health Check Parameter	Detector Linearity
Instrument ID	MKS 5 (Serial #014995408)
Date	5/6/2024



Location	BASF - Geismar, LA
Source	No. 3 Boiler EQT0161/UTL15
Project No.	AST-2024-2573
Health Check Parameter	Peak Analysis
Instrument ID	MKS 5 (Serial #014995408)
Date	5/6/2024



Location	BASF - Geismar, LA
Source	No. 3 Boiler EQT0161/UTL15
Project No.	AST-2024-2573
Health Check Parameter	Signal to Noise Ratio
Instrument ID	MKS 5 (Serial #014995408)
Date	5/6/2024





Location	BASF - Geismar, LA
Source	No. 3 Boiler EQT0161/UTL15
Project No.	AST-2024-2573
Health Check Parameter	Analysis Validation Utility
Instrument ID	MKS 5 (Serial #014995408)
Date	5/6/2024

Analysis Validation Report

Sample Filename: D:\Documents\2024\24-2573 BASF Geimar ICR\BASF Geismar\BOILER_0264.LAB

Filename for noise: D:\Documents\2024\24-2573 BASF Geimar ICR\BASF Geismar\BOILER_0187.LAB

Interferences Filenames: C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2

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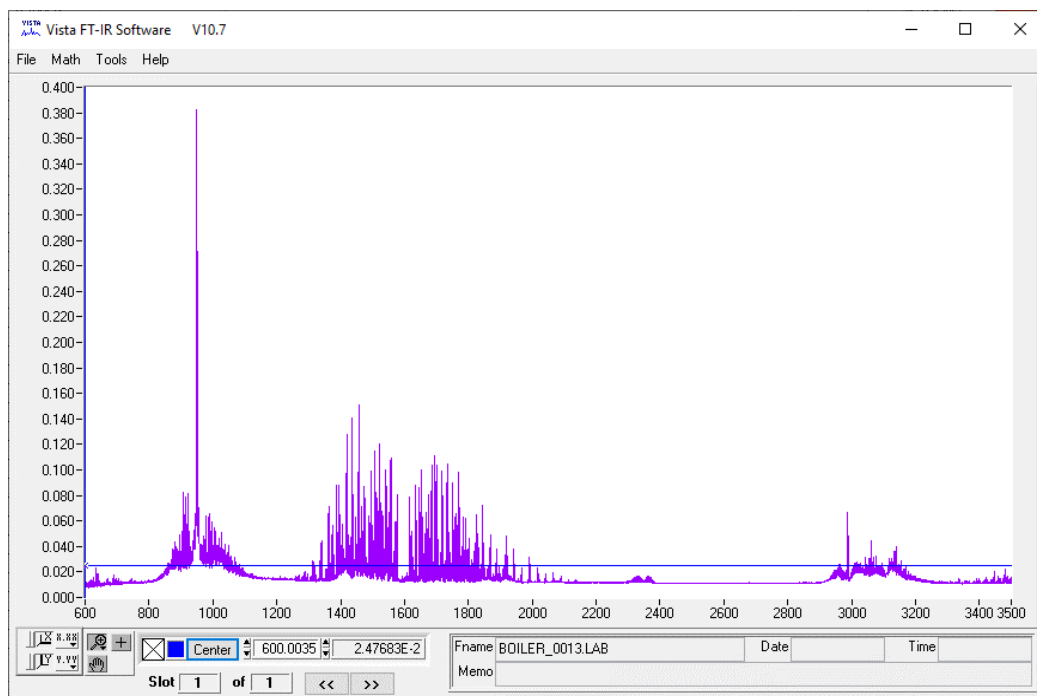
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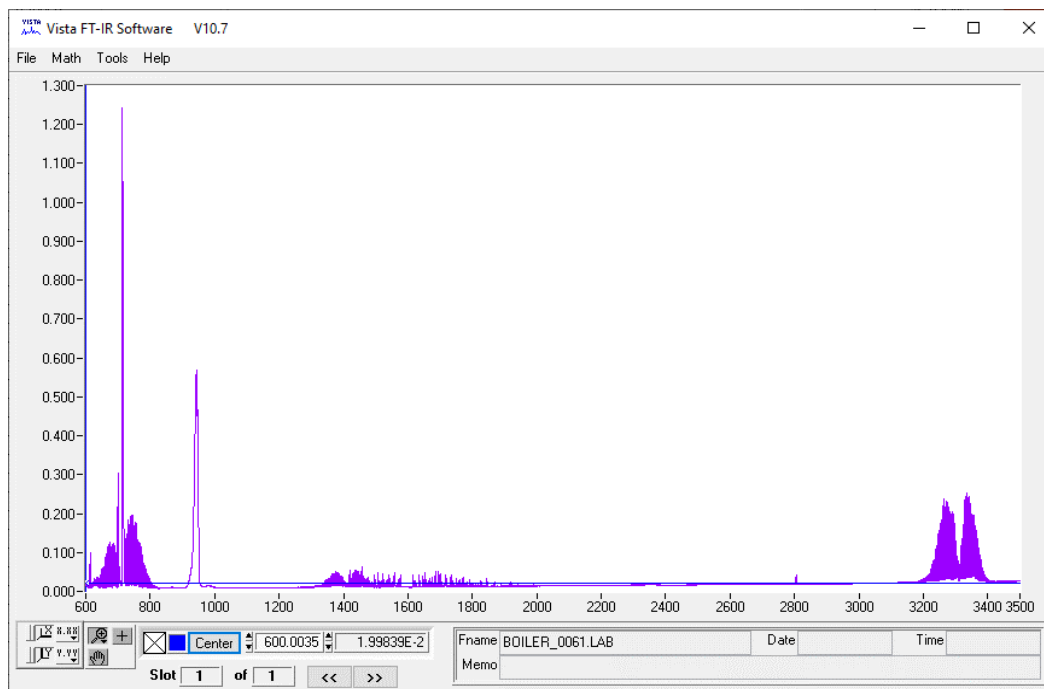
Recipe path: C:\OLT\RECIPES\BASF ICR HCN.MGRCP

Gas calibration Name	Conc	MDC3	MDC2	MDC1	MAU	FMU*R	OCU	~ DL
NO (350,3000) 191C	533.35	34.74	0.15	0.31	0.43	46.64	46.64	2.28
NO2 (150) 191C (10F2)	8.95	1.59	0.21	0.03	0.03	1.68	1.68	0.41
NO2 (2000) 191C (20F2)	-1.52	16.69	0.69	1.16	1.47	21.26	21.26	4.18
N2O (100,200,300) 191C	0.23	0.85	0.05	0.05	0.06	0.99	0.99	0.06
NH3 (300) 191C (10F2)	-0.25	1.91	0.04	0.15	0.25	3.24	3.24	0.62
NH3 (3000) 191C (20F2)	-0.85	26.04	0.52	1.92	3.62	49.11	49.11	2.86
H2O% (20) 191C	21.11	0.4		0.01	0.02	0.76	0.76	-
CO2% (20) 191C	7.09	0.66		0.02	0.02	0.91	0.91	-
CO (500) 191C (10F2)	1.39	4.33	0.1	0.24	0.51	9.34	9.34	0.44
CO% (1) 191C (20F2)	0	0.01	0	0	0	0.02	0.02	0
CH4 (3000) 191C	1.69	26.32	0.69	1.73	2.86	43.35	43.35	1.82
ETHANE (500) 191C	0.37	4.61	0.15	0.23	0.26	5.13	5.13	0.4
ETHYLENE (100,3000) 191C	-0.1	2.45	0.13	0.22	0.38	4.27	4.27	0.71
ACETYLENE (1000) 191C	0.9	16.27	0.26	0.7	0.94	21.78	21.78	0.29
PROPANE (200) 191C	-0.64	1.61	0.28	0.13	0.14	1.73	1.73	0.72
PROPYLENE (200,1000) 191C	-1.37	5.89	0.22	0.55	0.64	6.9	6.9	1.63
BUTANE (200) 191C	4.35	1.39	0.27	0.12	0.14	1.65	1.65	0.3
FORMALDEHYDE (70) 191C	-0.08	0.48	0.09	0.2	0.23	0.54	0.54	0.24
ACETALDEHYDE (500) 191C	-2.5	6.68	0.14	0.55	0.71	8.6	8.6	1.58
FORMIC ACID (10) 191C	0.44	0.73	0.02	0.09	0.11	0.87	0.87	0.68
MEOH (10) 191C	0.73	0.83	0.27	0.18	0.2	0.96	0.96	0.57
SF6 (10) 191C	-0.04	0.02	0.01	0	0	0.03	0.03	0.09
HCN (100) 191C	1.94	12.31	0.13	0.42	0.72	21.03	21.03	0.47

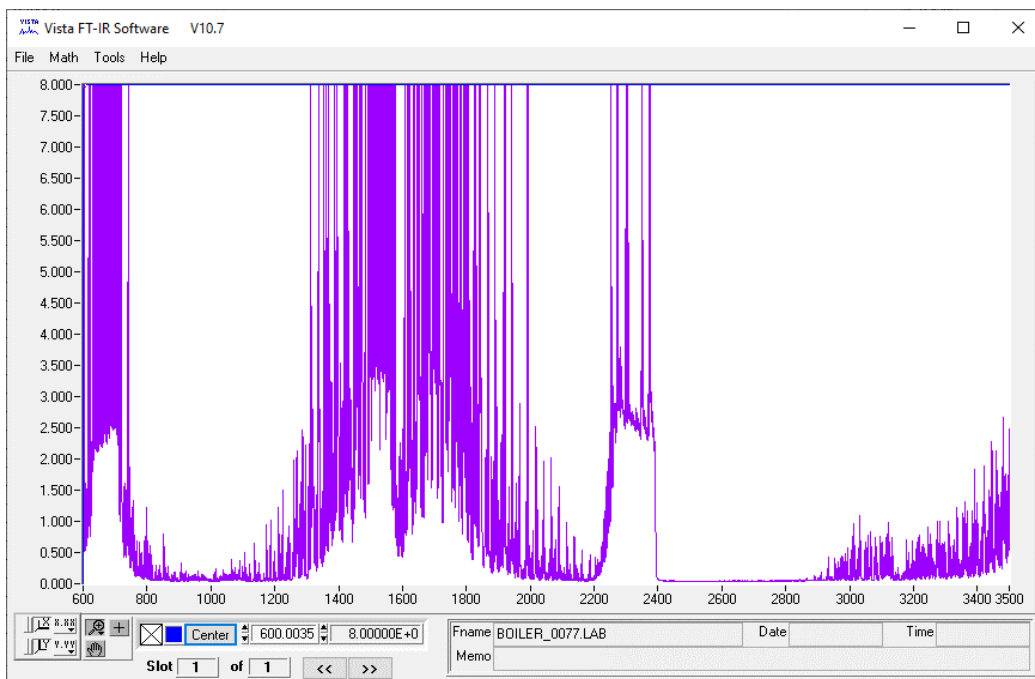
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Source	No. 3 Boiler EQT0161/UTL15
Project No.	AST-2024-2573
Spectra (CTS)	BOILER_0013.LAB
Date	5/6/2024
Time	2:41:37 PM



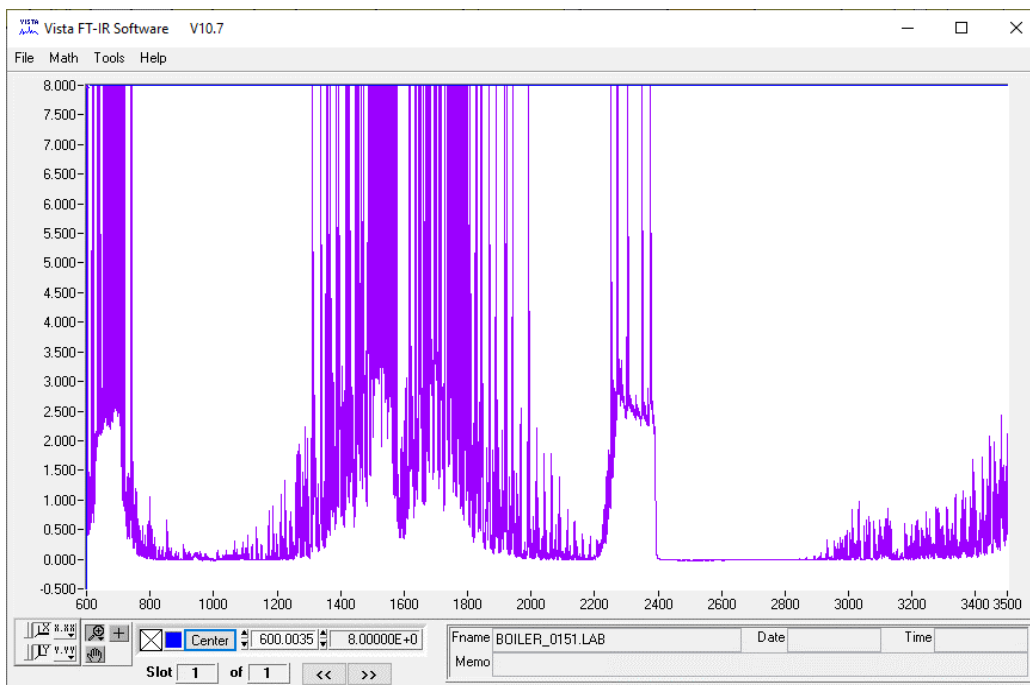
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Source	No. 3 Boiler EQT0161/UTL15
Project No.	AST-2024-2573
Spectra (Analyte Direct)	BOILER_0061.LAB
Date	5/6/2024
Time	3:34:33 PM



Location	BASF - Geismar, LA
Source	No. 3 Boiler EQT0161/UTL15
Project No.	AST-2024-2573
Spectra (Native)	BOILER_0077.LAB
Date	5/6/2024
Time	3:51:18 PM



Location	BASF - Geismar, LA
Source	No. 3 Boiler EQT0161/UTL15
Project No.	AST-2024-2573
Spectra (Spike)	BOILER_0151.LAB
Date	5/6/2024
Time	5:12:20 PM



Appendix E

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/6/24 10:38 AM	16.26	0.00	0.00	
5/6/24 10:39 AM	0.00	0.00	0.00	
5/6/24 10:40 AM	20.52	20.93	0.00	
5/6/24 10:41 AM	22.92	22.81	0.00	
5/6/24 10:42 AM	22.32	21.37	0.00	
5/6/24 10:43 AM	11.36	11.33	0.00	
5/6/24 10:44 AM	11.35	11.32	0.00	
5/6/24 10:45 AM	16.08	5.47	0.00	
5/6/24 10:46 AM	19.88	1.04	0.00	
5/6/24 10:47 AM	20.40	0.37	0.00	
5/6/24 10:48 AM	20.42	0.27	0.00	
5/6/24 10:49 AM	19.35	16.10	0.00	
5/6/24 10:50 AM	17.16	17.03	0.00	
5/6/24 10:51 AM	11.67	11.69	0.00	
5/6/24 10:52 AM	6.22	6.08	0.00	
5/6/24 10:53 AM	2.84	2.82	0.00	
5/6/24 10:54 AM	3.97	4.11	0.00	
5/6/24 10:55 AM	12.89	12.94	0.00	
5/6/24 10:56 AM	18.60	18.54	0.00	
5/6/24 10:57 AM	14.19	13.98	0.00	
5/6/24 10:58 AM	7.52	7.35	0.00	
5/6/24 10:59 AM	4.47	4.22	0.00	
5/6/24 11:00 AM	2.32	2.35	0.00	
5/6/24 11:01 AM	2.33	2.36	0.00	
5/6/24 11:02 AM	2.33	2.35	0.00	
5/6/24 11:03 AM	2.75	2.90	0.00	
5/6/24 11:04 AM	11.23	11.21	0.00	
5/6/24 11:05 AM	17.74	17.76	0.00	
5/6/24 11:06 AM	13.11	12.90	0.00	
5/6/24 11:07 AM	6.42	6.26	0.00	
5/6/24 11:08 AM	3.85	3.82	0.00	
5/6/24 11:09 AM	5.57	5.69	0.00	
5/6/24 11:10 AM	11.26	11.22	0.00	
5/6/24 11:11 AM	11.26	11.22	0.00	
5/6/24 11:12 AM	11.26	11.22	0.00	
5/6/24 11:13 AM	11.26	11.22	0.00	
5/6/24 11:14 AM	11.26	11.22	0.00	
5/6/24 11:15 AM	11.26	11.22	0.00	
5/6/24 11:16 AM	11.26	11.22	0.00	
5/6/24 11:17 AM	15.73	5.66	0.00	
5/6/24 11:18 AM	20.03	0.74	0.00	
5/6/24 11:19 AM	20.01	0.57	0.00	
5/6/24 11:20 AM	20.20	0.36	0.00	
5/6/24 11:21 AM	20.35	0.28	0.00	
5/6/24 11:22 AM	20.46	0.27	0.00	
5/6/24 11:23 AM	20.50	0.24	0.00	
5/6/24 11:24 AM	20.57	0.18	0.00	
5/6/24 11:25 AM	20.61	0.16	0.00	
5/6/24 11:26 AM	20.62	0.16	0.00	
5/6/24 11:27 AM	20.60	0.17	0.00	
5/6/24 11:28 AM	20.64	0.15	0.00	
5/6/24 11:29 AM	20.58	0.18	0.00	
5/6/24 11:30 AM	20.57	0.19	0.00	
5/6/24 11:31 AM	20.61	0.17	0.00	
5/6/24 11:32 AM	20.68	0.15	0.00	
5/6/24 11:33 AM	20.70	0.15	0.00	
5/6/24 11:34 AM	20.70	0.16	0.00	

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/6/24 11:35 AM	20.72	0.15	0.00	
5/6/24 11:36 AM	20.74	0.14	0.00	
5/6/24 11:37 AM	20.74	0.14	0.00	
5/6/24 11:38 AM	20.75	0.13	0.00	
5/6/24 11:39 AM	20.74	0.14	0.00	
5/6/24 11:40 AM	20.75	0.14	0.00	
5/6/24 11:41 AM	20.74	0.14	0.00	
5/6/24 11:42 AM	20.74	0.14	0.00	
5/6/24 11:43 AM	20.73	0.14	0.00	
5/6/24 11:44 AM	20.73	0.15	0.00	
5/6/24 11:45 AM	20.71	0.15	0.00	
5/6/24 11:46 AM	20.67	0.16	0.00	
5/6/24 11:47 AM	20.71	0.14	0.00	
5/6/24 11:48 AM	20.69	0.15	0.00	
5/6/24 11:49 AM	20.70	0.15	0.00	
5/6/24 11:50 AM	20.73	0.14	0.00	
5/6/24 11:51 AM	20.74	0.14	0.00	
5/6/24 11:52 AM	20.75	0.14	0.00	
5/6/24 11:53 AM	20.76	0.13	0.00	
5/6/24 11:54 AM	20.75	0.14	0.00	
5/6/24 11:55 AM	20.67	0.16	0.00	
5/6/24 11:56 AM	20.65	0.16	0.00	
5/6/24 11:57 AM	20.67	0.16	0.00	
5/6/24 11:58 AM	20.71	0.14	0.00	
5/6/24 11:59 AM	20.72	0.15	0.00	
5/6/24 12:00 PM	20.70	0.16	0.82	
5/6/24 12:01 PM	20.72	0.14	27.05	
5/6/24 12:02 PM	20.75	0.13	4.34	
5/6/24 12:03 PM	20.76	0.13	3.18	
5/6/24 12:04 PM	20.77	0.13	2.29	
5/6/24 12:05 PM	20.77	0.13	1.97	
5/6/24 12:06 PM	20.77	0.13	2.29	
5/6/24 12:07 PM	20.77	0.13	2.93	
5/6/24 12:08 PM	20.77	0.13	3.38	
5/6/24 12:09 PM	20.77	0.13	3.56	
5/6/24 12:10 PM	20.77	0.13	3.59	
5/6/24 12:11 PM	20.76	0.13	3.50	
5/6/24 12:12 PM	20.76	0.13	3.35	
5/6/24 12:13 PM	20.76	0.13	3.17	
5/6/24 12:14 PM	20.76	0.13	2.97	
5/6/24 12:15 PM	20.73	0.13	2.76	
5/6/24 12:16 PM	20.75	0.12	2.64	
5/6/24 12:17 PM	20.69	0.14	2.39	
5/6/24 12:18 PM	20.71	0.12	2.30	
5/6/24 12:19 PM	20.75	0.12	2.18	
5/6/24 12:20 PM	20.74	0.12	2.06	
5/6/24 12:21 PM	20.74	0.12	1.96	
5/6/24 12:22 PM	20.74	0.12	1.86	
5/6/24 12:23 PM	20.69	0.12	1.69	
5/6/24 12:24 PM	20.66	0.11	1.48	
5/6/24 12:25 PM	20.66	0.11	1.39	
5/6/24 12:26 PM	20.70	0.11	1.35	
5/6/24 12:27 PM	20.64	0.12	1.33	
5/6/24 12:28 PM	20.58	0.12	1.29	
5/6/24 12:29 PM	20.61	0.12	1.26	
5/6/24 12:30 PM	20.64	0.13	1.27	
5/6/24 12:31 PM	20.66	0.13	1.17	

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/6/24 12:32 PM	20.63	0.18	1.05	
5/6/24 12:33 PM	20.69	0.12	0.98	
5/6/24 12:34 PM	20.65	0.12	0.93	
5/6/24 12:35 PM	20.65	0.12	0.91	
5/6/24 12:36 PM	20.67	0.12	0.89	
5/6/24 12:37 PM	20.69	0.12	0.87	
5/6/24 12:38 PM	20.70	0.13	0.83	
5/6/24 12:39 PM	20.71	0.13	0.81	
5/6/24 12:40 PM	20.71	0.13	0.78	
5/6/24 12:41 PM	20.72	0.13	0.77	
5/6/24 12:42 PM	20.72	0.13	0.74	
5/6/24 12:43 PM	20.72	0.13	0.68	
5/6/24 12:44 PM	20.72	0.12	0.65	
5/6/24 12:45 PM	20.72	0.13	0.62	
5/6/24 12:46 PM	20.72	0.13	0.60	
5/6/24 12:47 PM	20.73	0.13	0.60	
5/6/24 12:48 PM	20.73	0.13	0.58	
5/6/24 12:49 PM	20.73	0.13	0.56	
5/6/24 12:50 PM	20.72	0.13	0.55	
5/6/24 12:51 PM	20.72	0.13	0.54	
5/6/24 12:52 PM	20.72	0.13	0.54	
5/6/24 12:53 PM	20.72	0.14	0.54	
5/6/24 12:54 PM	20.71	0.14	0.54	
5/6/24 12:55 PM	20.70	0.15	0.54	
5/6/24 12:56 PM	20.70	0.15	0.54	
5/6/24 12:57 PM	20.70	0.15	0.52	
5/6/24 12:58 PM	20.70	0.16	0.50	
5/6/24 12:59 PM	20.70	0.16	0.51	
5/6/24 1:00 PM	20.70	0.15	0.52	
5/6/24 1:01 PM	20.71	0.15	0.49	
5/6/24 1:02 PM	20.71	0.15	0.48	
5/6/24 1:03 PM	20.72	0.15	0.45	
5/6/24 1:04 PM	20.71	0.15	0.45	
5/6/24 1:05 PM	20.72	0.14	0.43	
5/6/24 1:06 PM	20.73	0.14	0.38	
5/6/24 1:07 PM	20.73	0.13	0.39	
5/6/24 1:08 PM	20.73	0.13	0.41	
5/6/24 1:09 PM	20.74	0.13	0.41	
5/6/24 1:10 PM	20.74	0.13	0.41	
5/6/24 1:11 PM	20.74	0.12	0.41	
5/6/24 1:12 PM	20.75	0.12	0.41	
5/6/24 1:13 PM	20.75	0.12	0.41	
5/6/24 1:14 PM	20.75	0.11	0.41	
5/6/24 1:15 PM	20.75	0.11	0.41	
5/6/24 1:16 PM	20.75	0.11	0.41	
5/6/24 1:17 PM	20.75	0.11	0.41	
5/6/24 1:18 PM	20.76	0.11	0.41	
5/6/24 1:19 PM	20.75	0.10	0.41	
5/6/24 1:20 PM	20.75	0.10	0.39	
5/6/24 1:21 PM	20.76	0.10	0.36	
5/6/24 1:22 PM	20.78	0.08	0.11	
5/6/24 1:23 PM	20.79	0.07	0.01	
5/6/24 1:24 PM	20.79	0.07	0.10	
5/6/24 1:25 PM	20.78	0.07	0.27	
5/6/24 1:26 PM	20.77	0.07	0.23	
5/6/24 1:27 PM	20.76	0.08	0.26	
5/6/24 1:28 PM	20.76	0.09	0.26	

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/6/24 1:29 PM	20.76	0.09	0.28	
5/6/24 1:30 PM	20.77	0.08	0.17	
5/6/24 1:31 PM	20.79	0.07	0.00	
5/6/24 1:32 PM	20.80	0.07	0.00	
5/6/24 1:33 PM	20.79	0.07	0.02	
5/6/24 1:34 PM	20.79	0.06	0.00	
5/6/24 1:35 PM	20.80	0.06	0.00	
5/6/24 1:36 PM	20.75	0.08	0.07	
5/6/24 1:37 PM	20.79	0.06	0.00	
5/6/24 1:38 PM	20.73	0.09	0.05	
5/6/24 1:39 PM	20.74	0.09	0.00	
5/6/24 1:40 PM	20.79	0.06	0.00	
5/6/24 1:41 PM	20.79	0.05	0.00	
5/6/24 1:42 PM	20.79	0.05	0.00	
5/6/24 1:43 PM	20.71	0.08	0.00	
5/6/24 1:44 PM	20.48	0.18	0.38	
5/6/24 1:45 PM	20.53	0.20	0.07	
5/6/24 1:46 PM	20.58	0.21	0.00	
5/6/24 1:47 PM	20.62	0.21	0.00	
5/6/24 1:48 PM	10.64	0.13	0.00	
5/6/24 1:49 PM	11.78	0.07	0.00	
5/6/24 1:50 PM	20.83	0.07	0.11	
5/6/24 1:51 PM	20.76	0.07	0.03	
5/6/24 1:52 PM	20.68	0.11	0.00	
5/6/24 1:53 PM	20.76	0.07	0.03	
5/6/24 1:54 PM	20.78	0.06	0.05	
5/6/24 1:55 PM	20.75	0.07	0.07	
5/6/24 1:56 PM	20.77	0.06	0.02	
5/6/24 1:57 PM	20.73	0.08	0.01	
5/6/24 1:58 PM	20.83	0.09	0.00	
5/6/24 1:59 PM	20.88	0.08	0.00	
5/6/24 2:00 PM	20.86	0.10	0.00	
5/6/24 2:01 PM	20.87	0.11	0.00	
5/6/24 2:02 PM	20.87	0.11	0.01	
5/6/24 2:03 PM	20.85	0.13	0.15	
5/6/24 2:04 PM	20.85	0.13	0.04	
5/6/24 2:05 PM	20.86	0.12	0.00	
5/6/24 2:06 PM	20.85	0.13	0.00	
5/6/24 2:07 PM	20.82	0.15	0.00	
5/6/24 2:08 PM	20.83	0.14	0.01	
5/6/24 2:09 PM	20.81	0.15	0.02	
5/6/24 2:10 PM	20.76	0.18	0.00	
5/6/24 2:11 PM	20.79	0.16	0.02	
5/6/24 2:12 PM	20.73	0.20	0.00	
5/6/24 2:13 PM	20.75	0.18	0.00	
5/6/24 2:14 PM	20.77	0.17	0.00	
5/6/24 2:15 PM	20.78	0.16	0.00	
5/6/24 2:16 PM	20.76	0.17	0.00	
5/6/24 2:17 PM	20.75	0.17	0.00	
5/6/24 2:18 PM	20.76	0.17	0.00	
5/6/24 2:19 PM	20.79	0.15	0.00	
5/6/24 2:20 PM	20.77	0.17	0.02	
5/6/24 2:21 PM	20.83	0.13	0.05	
5/6/24 2:22 PM	20.82	0.14	0.01	
5/6/24 2:23 PM	20.82	0.14	0.04	
5/6/24 2:24 PM	20.73	0.18	0.00	
5/6/24 2:25 PM	20.71	0.20	0.00	

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/6/24 2:26 PM	20.66	0.23	0.00	
5/6/24 2:27 PM	20.80	0.14	0.00	
5/6/24 2:28 PM	20.79	0.15	0.00	
5/6/24 2:29 PM	20.79	0.15	0.09	
5/6/24 2:30 PM	20.71	0.20	0.01	
5/6/24 2:31 PM	20.78	0.15	0.00	
5/6/24 2:32 PM	20.77	0.16	0.09	
5/6/24 2:33 PM	20.81	0.14	0.08	
5/6/24 2:34 PM	20.73	0.18	0.00	
5/6/24 2:35 PM	20.83	0.12	0.00	
5/6/24 2:36 PM	20.83	0.12	0.00	
5/6/24 2:37 PM	20.84	0.12	0.09	
5/6/24 2:38 PM	20.81	0.13	0.15	
5/6/24 2:39 PM	20.80	0.14	0.06	
5/6/24 2:40 PM	20.80	0.14	0.03	
5/6/24 2:41 PM	20.81	0.14	0.00	
5/6/24 2:42 PM	20.80	0.14	0.00	
5/6/24 2:43 PM	20.83	0.12	0.00	
5/6/24 2:44 PM	20.78	0.15	0.01	
5/6/24 2:45 PM	20.76	0.15	0.00	
5/6/24 2:46 PM	20.77	0.15	0.03	
5/6/24 2:47 PM	20.82	0.12	0.00	
5/6/24 2:48 PM	20.79	0.14	0.00	
5/6/24 2:49 PM	20.82	0.12	0.06	
5/6/24 2:50 PM	20.81	0.12	0.59	
5/6/24 2:51 PM	20.81	0.12	0.18	
5/6/24 2:52 PM	20.78	0.14	0.36	
5/6/24 2:53 PM	20.81	0.12	0.37	
5/6/24 2:54 PM	20.78	0.14	0.31	
5/6/24 2:55 PM	20.78	0.14	0.39	
5/6/24 2:56 PM	20.82	0.12	0.20	
5/6/24 2:57 PM	20.81	0.12	0.44	
5/6/24 2:58 PM	20.79	0.13	0.26	
5/6/24 2:59 PM	20.80	0.12	0.32	
5/6/24 3:00 PM	20.80	0.12	0.29	
5/6/24 3:01 PM	20.80	0.12	0.30	
5/6/24 3:02 PM	20.80	0.12	0.36	
5/6/24 3:03 PM	20.81	0.12	0.22	
5/6/24 3:04 PM	20.80	0.12	0.34	
5/6/24 3:05 PM	20.81	0.12	0.21	
5/6/24 3:06 PM	20.79	0.12	0.25	
5/6/24 3:07 PM	20.79	0.12	0.17	
5/6/24 3:08 PM	20.77	0.13	0.23	
5/6/24 3:09 PM	20.79	0.12	0.23	
5/6/24 3:10 PM	20.76	0.14	0.27	
5/6/24 3:11 PM	20.79	0.12	0.59	
5/6/24 3:12 PM	20.80	0.12	0.45	
5/6/24 3:13 PM	20.79	0.12	0.24	
5/6/24 3:14 PM	20.79	0.12	0.49	
5/6/24 3:15 PM	20.79	0.11	0.39	
5/6/24 3:16 PM	20.79	0.11	0.24	
5/6/24 3:17 PM	20.79	0.11	0.24	
5/6/24 3:18 PM	20.79	0.12	0.19	
5/6/24 3:19 PM	20.78	0.12	0.22	
5/6/24 3:20 PM	20.79	0.11	0.20	
5/6/24 3:21 PM	20.78	0.12	0.22	
5/6/24 3:22 PM	20.78	0.12	0.23	

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/6/24 3:23 PM	20.76	0.13	0.14	
5/6/24 3:24 PM	20.78	0.12	0.10	
5/6/24 3:25 PM	20.79	0.11	0.06	
5/6/24 3:26 PM	20.80	0.11	0.00	
5/6/24 3:27 PM	20.78	0.11	0.00	
5/6/24 3:28 PM	20.78	0.11	0.00	
5/6/24 3:29 PM	20.78	0.11	0.00	
5/6/24 3:30 PM	20.74	0.15	0.00	
5/6/24 3:31 PM	5.74	9.35	0.01	
5/6/24 3:32 PM	5.20	9.66	0.00	
5/6/24 3:33 PM	5.14	9.70	0.00	
5/6/24 3:34 PM	5.26	9.57	0.00	
5/6/24 3:35 PM	5.27	9.58	0.00	
5/6/24 3:36 PM	5.24	9.62	0.00	
5/6/24 3:37 PM	5.21	9.65	0.00	
5/6/24 3:38 PM	5.19	9.66	0.00	
5/6/24 3:39 PM	5.23	9.60	0.00	
5/6/24 3:40 PM	5.11	9.64	0.00	
5/6/24 3:41 PM	5.17	9.61	0.00	
5/6/24 3:42 PM	5.11	9.67	0.00	
5/6/24 3:43 PM	5.10	9.70	0.00	
5/6/24 3:44 PM	5.17	9.61	0.00	
5/6/24 3:45 PM	5.26	9.49	0.00	
5/6/24 3:46 PM	5.25	9.48	0.00	
5/6/24 3:47 PM	5.27	9.48	0.00	
5/6/24 3:48 PM	3.41	3.78	0.00	
5/6/24 3:49 PM	7.48	7.56	0.00	
5/6/24 3:50 PM	11.19	11.05	0.00	
5/6/24 3:51 PM	11.20	11.09	0.00	
5/6/24 3:52 PM	11.21	11.12	0.01	
5/6/24 3:53 PM	11.22	11.14	0.00	
5/6/24 3:54 PM	11.22	11.15	0.00	
5/6/24 3:55 PM	11.23	11.15	0.00	
5/6/24 3:56 PM	11.23	11.15	0.01	
5/6/24 3:57 PM	11.23	11.16	0.03	
5/6/24 3:58 PM	6.68	10.15	0.00	
5/6/24 3:59 PM	4.70	9.83	0.00	
5/6/24 4:00 PM	4.76	9.79	0.00	
5/6/24 4:01 PM	4.86	9.68	0.00	
5/6/24 4:02 PM	5.14	9.51	0.00	
5/6/24 4:03 PM	5.25	9.45	0.00	
5/6/24 4:04 PM	5.23	9.48	0.00	
5/6/24 4:05 PM	5.24	9.48	0.00	
5/6/24 4:06 PM	5.20	9.50	0.00	
5/6/24 4:07 PM	5.28	9.40	0.00	
5/6/24 4:08 PM	5.26	9.42	0.00	
5/6/24 4:09 PM	5.21	9.46	0.00	
5/6/24 4:10 PM	5.14	9.52	0.00	
5/6/24 4:11 PM	5.19	9.49	0.00	
5/6/24 4:12 PM	5.15	9.48	0.00	
5/6/24 4:13 PM	5.22	9.43	0.00	
5/6/24 4:14 PM	5.38	9.34	0.00	
5/6/24 4:15 PM	5.30	9.41	0.00	
5/6/24 4:16 PM	5.16	9.51	0.00	
5/6/24 4:17 PM	5.22	9.46	0.00	
5/6/24 4:18 PM	5.25	9.40	0.00	
5/6/24 4:19 PM	5.29	9.39	0.00	

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/6/24 4:20 PM	5.27	9.43	0.00	
5/6/24 4:21 PM	5.39	9.38	0.00	
5/6/24 4:22 PM	5.36	9.40	0.00	
5/6/24 4:23 PM	5.34	9.38	0.00	
5/6/24 4:24 PM	5.34	9.37	0.00	
5/6/24 4:25 PM	5.42	9.33	0.00	
5/6/24 4:26 PM	5.25	9.45	0.00	
5/6/24 4:27 PM	5.35	9.41	0.00	
5/6/24 4:28 PM	5.27	9.46	0.00	
5/6/24 4:29 PM	5.24	9.43	0.00	
5/6/24 4:30 PM	5.21	9.46	0.00	
5/6/24 4:31 PM	5.36	9.39	0.00	
5/6/24 4:32 PM	5.38	9.40	0.00	
5/6/24 4:33 PM	5.37	9.41	0.00	
5/6/24 4:34 PM	5.37	9.37	0.00	
5/6/24 4:35 PM	5.48	9.30	0.00	
5/6/24 4:36 PM	5.39	9.36	0.00	
5/6/24 4:37 PM	5.38	9.40	0.00	
5/6/24 4:38 PM	5.32	9.45	0.00	
5/6/24 4:39 PM	5.36	9.40	0.00	
5/6/24 4:40 PM	5.22	9.43	0.00	
5/6/24 4:41 PM	5.16	9.48	0.00	
5/6/24 4:42 PM	5.21	9.46	0.00	
5/6/24 4:43 PM	4.94	9.63	0.00	
5/6/24 4:44 PM	4.89	9.65	0.00	
5/6/24 4:45 PM	4.75	9.67	0.00	
5/6/24 4:46 PM	4.79	9.63	0.00	
5/6/24 4:47 PM	4.63	9.74	0.00	
5/6/24 4:48 PM	4.64	9.75	0.00	
5/6/24 4:49 PM	4.71	9.71	0.00	
5/6/24 4:50 PM	4.64	9.74	0.00	
5/6/24 4:51 PM	4.71	9.64	0.00	
5/6/24 4:52 PM	4.72	9.64	0.00	
5/6/24 4:53 PM	4.55	9.77	0.00	
5/6/24 4:54 PM	4.67	9.72	0.00	
5/6/24 4:55 PM	4.81	9.64	0.00	
5/6/24 4:56 PM	4.72	9.63	0.00	
5/6/24 4:57 PM	4.61	9.68	0.00	
5/6/24 4:58 PM	4.82	9.57	0.00	
5/6/24 4:59 PM	4.89	9.55	0.00	
5/6/24 5:00 PM	4.72	9.66	0.00	
5/6/24 5:01 PM	4.64	9.70	0.00	
5/6/24 5:02 PM	4.67	9.62	0.00	
5/6/24 5:03 PM	4.72	9.60	0.00	
5/6/24 5:04 PM	4.73	9.62	0.00	
5/6/24 5:05 PM	4.83	9.59	0.00	
5/6/24 5:06 PM	4.92	9.55	0.00	
5/6/24 5:07 PM	4.91	9.50	0.00	
5/6/24 5:08 PM	4.96	9.45	0.00	
5/6/24 5:09 PM	4.97	9.46	0.00	
5/6/24 5:10 PM	4.97	9.48	0.00	
5/6/24 5:11 PM	5.08	9.40	0.00	
5/6/24 5:12 PM	5.00	9.38	0.00	
5/6/24 5:13 PM	5.07	9.27	0.00	
5/6/24 5:14 PM	4.99	9.30	0.00	
5/6/24 5:15 PM	4.75	9.47	0.00	
5/6/24 5:16 PM	4.62	9.56	0.00	

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/6/24 5:17 PM	4.65	9.55	0.00	
5/6/24 5:18 PM	4.76	9.42	0.00	
5/6/24 5:19 PM	4.92	9.29	0.00	
5/6/24 5:20 PM	4.77	9.38	0.00	
5/6/24 5:21 PM	4.74	9.40	0.00	
5/6/24 5:22 PM	4.55	9.50	0.00	
5/6/24 5:23 PM	4.53	9.48	0.00	
5/6/24 5:24 PM	4.72	9.29	0.00	
5/6/24 5:25 PM	4.74	9.26	0.00	
5/6/24 5:26 PM	4.66	9.31	0.00	
5/6/24 5:27 PM	7.76	7.49	0.24	
5/6/24 5:28 PM	20.67	0.21	0.41	
5/6/24 5:29 PM	20.73	0.15	0.18	
5/6/24 5:30 PM	20.74	0.14	0.15	
5/6/24 5:31 PM	20.76	0.13	0.08	
5/6/24 5:32 PM	20.76	0.13	0.15	
5/6/24 5:33 PM	20.76	0.14	0.25	
5/6/24 5:34 PM	20.76	0.14	0.13	
5/6/24 5:35 PM	20.77	0.14	0.00	
5/6/24 5:36 PM	20.78	0.14	0.00	
5/6/24 5:37 PM	20.78	0.13	0.00	
5/6/24 5:38 PM	20.78	0.13	0.00	
5/6/24 5:39 PM	20.78	0.13	0.00	
5/6/24 5:40 PM	20.78	0.13	0.00	
5/6/24 5:41 PM	20.79	0.12	0.00	
5/6/24 5:42 PM	20.79	0.12	0.00	
5/6/24 5:43 PM	20.79	0.12	0.34	
5/6/24 5:44 PM	20.79	0.13	0.07	

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Date / Time	O2	CO2	THC	Notes
5/7/24 7:31	15.77	0.06	0.00	
5/7/24 7:32	0.05	0.00	0.00	
5/7/24 7:33	4.01	3.58	0.00	
5/7/24 7:34	22.91	22.92	0.00	
5/7/24 7:35	18.05	17.43	0.00	
5/7/24 7:36	13.15	8.34	0.00	
5/7/24 7:37	20.83	0.10	52.74	
5/7/24 7:38	20.83	0.09	9.85	
5/7/24 7:39	20.80	0.11	1.18	
5/7/24 7:40	20.84	0.09	0.36	
5/7/24 7:41	20.83	0.09	0.29	
5/7/24 7:42	20.84	0.09	2.46	
5/7/24 7:43	20.85	0.09	0.41	
5/7/24 7:44	20.84	0.09	0.00	
5/7/24 7:45	20.85	0.09	0.00	
5/7/24 7:46	20.85	0.09	0.72	
5/7/24 7:47	20.85	0.08	21.72	
5/7/24 7:48	20.85	0.09	21.57	
5/7/24 7:49	20.85	0.09	21.59	
5/7/24 7:50	20.85	0.09	19.96	
5/7/24 7:51	20.84	0.10	7.24	
5/7/24 7:52	20.78	0.14	7.32	
5/7/24 7:53	20.85	0.09	7.39	
5/7/24 7:54	20.87	0.09	6.73	
5/7/24 7:55	20.85	0.09	11.21	
5/7/24 7:56	20.85	0.09	12.54	
5/7/24 7:57	20.82	0.11	12.54	
5/7/24 7:58	20.85	0.09	7.19	
5/7/24 7:59	20.85	0.10	3.59	
5/7/24 8:00	20.84	0.10	9.81	
5/7/24 8:01	20.85	0.09	11.32	
5/7/24 8:02	20.84	0.09	0.11	
5/7/24 8:03	20.79	0.12	9.38	
5/7/24 8:04	16.63	0.16	6.44	
5/7/24 8:05	0.15	0.04	1.30	
5/7/24 8:06	0.10	0.04	1.13	
5/7/24 8:07	0.09	0.03	1.04	
5/7/24 8:08	5.57	3.76	0.91	
5/7/24 8:09	11.21	11.17	1.04	
5/7/24 8:10	11.24	11.22	1.69	
5/7/24 8:11	11.24	11.23	1.29	
5/7/24 8:12	11.24	11.24	1.04	
5/7/24 8:13	11.25	11.25	0.31	
5/7/24 8:14	8.23	10.71	0.29	
5/7/24 8:15	4.52	9.83	0.30	
5/7/24 8:16	4.49	9.86	0.28	
5/7/24 8:17	4.49	9.89	0.26	
5/7/24 8:18	4.37	9.99	0.26	
5/7/24 8:19	4.50	9.89	0.26	
5/7/24 8:20	4.53	9.83	0.28	
5/7/24 8:21	4.94	9.54	0.31	
5/7/24 8:22	4.90	9.58	0.31	
5/7/24 8:23	4.87	9.63	0.31	
5/7/24 8:24	5.01	9.56	0.30	
5/7/24 8:25	4.95	9.59	0.30	
5/7/24 8:26	4.81	9.58	0.30	
5/7/24 8:27	4.78	9.61	0.30	

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Date / Time	O2	CO2	THC	Notes
5/7/24 8:28	4.67	9.72	0.29	
5/7/24 8:29	4.47	9.86	0.28	
5/7/24 8:30	4.43	9.89	0.27	
5/7/24 8:31	4.43	9.86	0.28	
5/7/24 8:32	4.67	9.68	0.29	
5/7/24 8:33	4.84	9.61	0.31	
5/7/24 8:34	4.77	9.69	0.30	
5/7/24 8:35	4.81	9.68	0.28	
5/7/24 8:36	4.70	9.75	0.25	
5/7/24 8:37	4.81	9.60	0.26	
5/7/24 8:38	4.81	9.61	0.24	
5/7/24 8:39	4.76	9.67	0.23	
5/7/24 8:40	4.65	9.76	0.22	
5/7/24 8:41	4.62	9.79	0.23	
5/7/24 8:42	4.55	9.79	0.22	
5/7/24 8:43	4.76	9.62	0.23	
5/7/24 8:44	4.64	9.72	0.21	
5/7/24 8:45	4.78	9.69	0.23	
5/7/24 8:46	4.73	9.71	0.22	
5/7/24 8:47	4.75	9.71	0.22	
5/7/24 8:48	4.79	9.60	0.25	
5/7/24 8:49	4.70	9.66	0.24	
5/7/24 8:50	4.60	9.78	0.23	
5/7/24 8:51	4.65	9.78	0.23	
5/7/24 8:52	4.70	9.75	0.25	
5/7/24 8:53	4.66	9.73	0.25	
5/7/24 8:54	4.59	9.72	0.25	
5/7/24 8:55	4.71	9.67	0.25	Start Run 1
5/7/24 8:56	4.84	9.64	0.24	
5/7/24 8:57	4.82	9.66	0.26	
5/7/24 8:58	4.71	9.74	0.24	
5/7/24 8:59	4.80	9.59	0.24	
5/7/24 9:00	4.83	9.58	0.24	
5/7/24 9:01	4.70	9.71	0.24	
5/7/24 9:02	4.49	9.86	0.21	
5/7/24 9:03	4.58	9.81	0.21	
5/7/24 9:04	4.51	9.81	0.19	
5/7/24 9:05	4.67	9.67	0.20	
5/7/24 9:06	4.58	9.75	0.21	
5/7/24 9:07	4.68	9.73	0.23	
5/7/24 9:08	4.65	9.77	0.22	
5/7/24 9:09	4.69	9.76	0.21	
5/7/24 9:10	4.81	9.59	0.22	
5/7/24 9:11	5.01	9.48	0.24	
5/7/24 9:12	4.86	9.64	0.22	
5/7/24 9:13	4.66	9.78	0.20	
5/7/24 9:14	4.68	9.78	0.19	
5/7/24 9:15	4.74	9.71	0.19	
5/7/24 9:16	4.82	9.60	0.22	
5/7/24 9:17	4.74	9.67	0.20	
5/7/24 9:18	4.71	9.73	0.19	
5/7/24 9:19	4.83	9.67	0.19	
5/7/24 9:20	4.71	9.75	0.22	
5/7/24 9:21	4.81	9.58	0.21	
5/7/24 9:22	4.67	9.68	0.22	
5/7/24 9:23	4.78	9.66	0.23	
5/7/24 9:24	4.73	9.71	0.20	

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Date / Time	O2	CO2	THC	Notes
5/7/24 9:25	4.65	9.76	0.21	
5/7/24 9:26	4.58	9.77	0.19	
5/7/24 9:27	4.66	9.66	0.21	
5/7/24 9:28	4.78	9.63	0.20	
5/7/24 9:29	4.60	9.77	0.19	
5/7/24 9:30	4.69	9.74	0.20	
5/7/24 9:31	4.82	9.67	0.20	
5/7/24 9:32	4.86	9.55	0.20	
5/7/24 9:33	5.01	9.47	0.21	
5/7/24 9:34	4.86	9.61	0.20	
5/7/24 9:35	4.82	9.65	0.22	
5/7/24 9:36	4.89	9.61	0.37	
5/7/24 9:37	4.87	9.58	0.39	
5/7/24 9:38	5.01	9.44	0.38	
5/7/24 9:39	4.87	9.55	0.41	
5/7/24 9:40	4.72	9.69	0.38	
5/7/24 9:41	4.80	9.65	0.38	
5/7/24 9:42	4.75	9.68	0.37	
5/7/24 9:43	4.83	9.54	0.40	
5/7/24 9:44	4.89	9.51	0.42	
5/7/24 9:45	4.79	9.62	0.38	
5/7/24 9:46	4.76	9.66	0.39	
5/7/24 9:47	4.69	9.71	0.38	
5/7/24 9:48	4.85	9.57	0.39	
5/7/24 9:49	4.86	9.52	0.41	
5/7/24 9:50	4.83	9.57	0.40	
5/7/24 9:51	4.69	9.69	0.39	
5/7/24 9:52	4.66	9.71	0.11	
5/7/24 9:53	4.59	9.76	0.23	
5/7/24 9:54	4.58	9.68	0.01	End THC 1 hr block
5/7/24 9:55	4.68	9.63	0.31	
5/7/24 9:56	4.48	9.86	0.00	
5/7/24 9:57	4.15	10.19	0.00	
5/7/24 9:58	4.12	10.23	0.00	
5/7/24 9:59	3.93	10.33	5.60	
5/7/24 10:00	4.06	10.22	7.81	
5/7/24 10:01	4.01	10.31	8.25	
5/7/24 10:02	4.09	10.32	9.96	
5/7/24 10:03	4.29	10.25	12.08	
5/7/24 10:04	4.53	10.17	12.53	
5/7/24 10:05	4.77	9.99	12.54	
5/7/24 10:06	5.00	9.94	5.73	
5/7/24 10:07	5.39	9.87	0.10	
5/7/24 10:08	5.59	9.93	0.08	Start THC 1 hr block
5/7/24 10:09	5.50	10.12	0.08	
5/7/24 10:10	5.33	10.40	0.07	
5/7/24 10:11	5.52	10.48	0.07	
5/7/24 10:12	5.61	10.75	0.08	
5/7/24 10:13	5.74	10.91	0.10	
5/7/24 10:14	5.66	11.16	0.11	
5/7/24 10:15	5.74	11.26	0.12	
5/7/24 10:16	5.60	11.50	0.14	
5/7/24 10:17	5.50	11.62	0.15	
5/7/24 10:18	5.53	11.56	0.16	
5/7/24 10:19	5.47	11.63	0.16	
5/7/24 10:20	5.39	11.83	0.16	
5/7/24 10:21	5.46	11.75	0.17	

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Date / Time	O2	CO2	THC	Notes
5/7/24 10:22	5.36	11.77	0.17	
5/7/24 10:23	4.96	11.87	0.14	
5/7/24 10:24	4.94	11.90	0.15	
5/7/24 10:25	4.87	12.06	0.15	
5/7/24 10:26	4.89	12.15	0.15	
5/7/24 10:27	4.74	12.27	0.14	
5/7/24 10:28	4.87	12.02	0.15	
5/7/24 10:29	4.83	11.96	0.14	
5/7/24 10:30	4.64	12.06	0.14	
5/7/24 10:31	4.81	12.00	0.13	
5/7/24 10:32	4.73	11.89	0.15	
5/7/24 10:33	4.38	11.97	0.12	
5/7/24 10:34	4.47	11.97	0.10	
5/7/24 10:35	4.34	12.12	0.10	
5/7/24 10:36	4.30	12.13	0.12	
5/7/24 10:37	4.38	12.03	0.13	
5/7/24 10:38	4.59	11.90	0.13	
5/7/24 10:39	4.78	11.81	0.15	
5/7/24 10:40	4.68	11.95	0.13	
5/7/24 10:41	4.73	11.92	0.13	
5/7/24 10:42	4.60	11.73	0.12	
5/7/24 10:43	4.39	11.81	0.11	
5/7/24 10:44	4.54	11.72	0.13	
5/7/24 10:45	4.62	11.68	0.13	
5/7/24 10:46	4.52	11.75	0.12	
5/7/24 10:47	4.46	11.69	0.12	
5/7/24 10:48	4.31	11.78	0.11	
5/7/24 10:49	4.32	11.76	0.12	
5/7/24 10:50	4.53	11.71	0.14	
5/7/24 10:51	4.76	11.59	0.15	
5/7/24 10:52	4.71	11.60	0.15	
5/7/24 10:53	4.62	11.72	0.14	
5/7/24 10:54	4.73	11.76	0.17	
5/7/24 10:55	4.84	11.79	0.16	
5/7/24 10:56	5.04	11.67	0.18	
5/7/24 10:57	4.91	11.81	0.19	
5/7/24 10:58	4.96	11.78	0.19	
5/7/24 10:59	4.80	11.93	0.18	
5/7/24 11:00	4.86	11.95	0.19	
5/7/24 11:01	4.89	11.74	0.19	
5/7/24 11:02	4.51	11.98	0.18	
5/7/24 11:03	4.70	11.88	0.18	
5/7/24 11:04	4.41	12.10	0.16	
5/7/24 11:05	4.56	11.98	0.15	
5/7/24 11:06	4.61	11.77	0.16	
5/7/24 11:07	4.54	11.72	0.16	End THC 1 hr block
5/7/24 11:08	4.38	11.73	0.16	
5/7/24 11:09	4.26	11.86	0.16	
5/7/24 11:10	4.43	11.70	1.56	
5/7/24 11:11	4.24	11.58	13.23	
5/7/24 11:12	4.50	11.45	12.63	
5/7/24 11:13	4.47	11.55	12.58	
5/7/24 11:14	4.62	11.58	6.24	
5/7/24 11:15	4.73	11.48	0.00	
5/7/24 11:16	4.43	11.63	0.00	
5/7/24 11:17	4.43	11.59	0.00	
5/7/24 11:18	4.42	11.66	0.06	

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Date / Time	O2	CO2	THC	Notes
5/7/24 11:19	4.68	11.52	0.12	
5/7/24 11:20	4.77	11.25	0.12	Start THC 1 hr block
5/7/24 11:21	4.40	11.39	0.10	
5/7/24 11:22	4.43	11.28	0.10	
5/7/24 11:23	4.24	11.45	0.10	
5/7/24 11:24	4.36	11.40	0.12	
5/7/24 11:25	4.26	11.36	0.10	
5/7/24 11:26	4.25	11.24	0.11	
5/7/24 11:27	4.18	11.17	0.10	
5/7/24 11:28	4.50	10.95	0.12	
5/7/24 11:29	4.58	10.73	0.10	
5/7/24 11:30	4.12	10.94	0.09	
5/7/24 11:31	4.21	10.96	0.10	
5/7/24 11:32	4.39	10.99	0.10	
5/7/24 11:33	4.50	10.94	0.12	
5/7/24 11:34	4.51	10.90	0.12	
5/7/24 11:35	4.62	10.79	0.14	
5/7/24 11:36	4.61	10.71	0.12	
5/7/24 11:37	4.69	10.57	0.13	
5/7/24 11:38	4.51	10.59	0.13	
5/7/24 11:39	4.84	10.32	0.15	
5/7/24 11:40	4.68	10.39	0.15	
5/7/24 11:41	4.24	10.76	0.14	
5/7/24 11:42	3.92	10.92	0.13	
5/7/24 11:43	3.97	10.86	0.13	
5/7/24 11:44	4.21	10.56	0.15	
5/7/24 11:45	4.17	10.52	0.16	
5/7/24 11:46	4.04	10.59	0.17	
5/7/24 11:47	4.23	10.47	0.16	
5/7/24 11:48	3.86	10.70	0.15	
5/7/24 11:49	4.25	10.41	0.18	
5/7/24 11:50	4.36	10.27	0.18	
5/7/24 11:51	4.37	10.29	0.19	
5/7/24 11:52	4.40	10.35	0.19	
5/7/24 11:53	4.33	10.40	0.19	
5/7/24 11:54	4.49	10.30	0.19	
5/7/24 11:55	4.51	10.18	0.19	
5/7/24 11:56	4.68	10.08	0.21	
5/7/24 11:57	4.52	10.23	0.20	
5/7/24 11:58	4.56	10.24	0.21	
5/7/24 11:59	4.77	10.08	0.21	
5/7/24 12:00	4.52	10.20	0.21	
5/7/24 12:01	4.88	9.95	0.22	
5/7/24 12:02	4.78	10.05	0.21	
5/7/24 12:03	4.81	10.06	0.22	
5/7/24 12:04	4.69	10.16	0.23	
5/7/24 12:05	4.63	10.20	0.22	
5/7/24 12:06	4.62	10.13	0.22	
5/7/24 12:07	4.70	10.09	0.23	
5/7/24 12:08	4.69	10.11	0.23	
5/7/24 12:09	4.61	10.17	0.23	
5/7/24 12:10	4.73	10.15	0.24	
5/7/24 12:11	4.57	10.23	0.23	
5/7/24 12:12	4.49	10.24	0.22	
5/7/24 12:13	4.61	10.18	0.23	
5/7/24 12:14	4.60	10.22	0.24	
5/7/24 12:15	4.61	10.24	0.23	

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Date / Time	O2	CO2	THC	Notes
5/7/24 12:16	4.54	10.30	0.23	
5/7/24 12:17	4.71	10.08	0.23	
5/7/24 12:18	4.75	10.06	0.24	
5/7/24 12:19	4.77	10.10	0.24	End THC 1 hr block
5/7/24 12:20	4.70	10.16	0.24	
5/7/24 12:21	4.70	10.17	1.12	
5/7/24 12:22	4.74	10.10	0.13	
5/7/24 12:23	4.84	9.98	0.00	
5/7/24 12:24	4.63	10.15	0.00	
5/7/24 12:25	4.63	10.19	1.72	
5/7/24 12:26	4.52	10.25	9.84	
5/7/24 12:27	4.43	10.31	12.20	
5/7/24 12:28	4.60	10.14	12.58	
5/7/24 12:29	4.93	9.95	12.59	
5/7/24 12:30	4.86	10.03	6.98	
5/7/24 12:31	4.77	10.08	0.22	
5/7/24 12:32	4.70	10.12	0.20	Start THC 1 hr block
5/7/24 12:33	4.57	10.17	0.20	
5/7/24 12:34	4.84	9.98	0.22	
5/7/24 12:35	4.86	9.98	0.21	
5/7/24 12:36	4.64	10.14	0.21	
5/7/24 12:37	4.56	10.22	0.21	
5/7/24 12:38	4.43	10.32	0.19	
5/7/24 12:39	4.59	10.16	0.20	
5/7/24 12:40	4.78	10.04	0.22	
5/7/24 12:41	4.65	10.16	0.20	
5/7/24 12:42	4.67	10.17	0.20	
5/7/24 12:43	4.61	10.22	0.21	
5/7/24 12:44	4.55	10.20	0.20	
5/7/24 12:45	4.78	10.01	0.22	
5/7/24 12:46	4.70	10.10	0.22	
5/7/24 12:47	4.63	10.20	0.22	
5/7/24 12:48	4.62	10.22	0.21	
5/7/24 12:49	4.58	10.23	0.20	
5/7/24 12:50	4.69	10.07	0.21	
5/7/24 12:51	4.80	10.02	0.22	
5/7/24 12:52	4.83	10.04	0.23	
5/7/24 12:53	4.81	10.07	0.24	
5/7/24 12:54	4.75	10.10	0.23	
5/7/24 12:55	4.70	10.12	0.23	
5/7/24 12:56	4.75	10.04	0.22	
5/7/24 12:57	4.77	10.05	0.22	
5/7/24 12:58	4.67	10.15	0.23	
5/7/24 12:59	4.66	10.15	0.22	
5/7/24 13:00	4.68	10.14	0.23	
5/7/24 13:01	4.73	10.04	0.24	
5/7/24 13:02	4.98	9.86	0.25	
5/7/24 13:03	4.85	9.98	0.27	
5/7/24 13:04	4.84	10.02	0.26	
5/7/24 13:05	4.70	10.11	0.24	
5/7/24 13:06	4.72	10.08	0.25	
5/7/24 13:07	4.68	10.05	0.24	
5/7/24 13:08	4.75	10.01	0.25	
5/7/24 13:09	4.67	10.11	0.24	
5/7/24 13:10	4.76	10.07	0.25	
5/7/24 13:11	4.71	10.03	0.25	
5/7/24 13:12	4.64	10.04	0.24	

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Date / Time	O2	CO2	THC	Notes
5/7/24 13:13	4.62	10.02	0.24	
5/7/24 13:14	4.66	10.09	0.24	
5/7/24 13:15	4.69	10.09	0.25	
5/7/24 13:16	4.69	10.10	0.25	
5/7/24 13:17	4.63	10.11	0.24	
5/7/24 13:18	4.80	9.93	0.24	
5/7/24 13:19	4.99	9.82	0.26	
5/7/24 13:20	4.79	9.97	0.25	
5/7/24 13:21	4.69	10.05	0.25	
5/7/24 13:22	4.73	10.05	0.25	
5/7/24 13:23	4.57	10.09	0.24	
5/7/24 13:24	4.64	10.04	0.24	
5/7/24 13:25	4.63	10.08	0.24	
5/7/24 13:26	4.66	10.09	0.25	
5/7/24 13:27	4.72	10.06	0.24	
5/7/24 13:28	4.75	9.97	0.26	
5/7/24 13:29	4.83	9.91	0.26	
5/7/24 13:30	4.88	9.97	0.25	
5/7/24 13:31	5.15	9.99	0.27	End THC 1 hr block
5/7/24 13:32	5.42	9.75	0.26	
5/7/24 13:33	5.45	9.78	0.24	
5/7/24 13:34	5.41	9.84	0.23	
5/7/24 13:35	5.39	9.91	0.25	
5/7/24 13:36	5.30	9.97	0.23	
5/7/24 13:37	5.09	10.18	0.22	
5/7/24 13:38	5.04	10.29	0.23	
5/7/24 13:39	4.82	8.63	0.22	
5/7/24 13:40	0.27	0.13	0.22	
5/7/24 13:41	0.23	0.08	0.20	
5/7/24 13:42	0.22	0.07	0.21	
5/7/24 13:43	1.54	1.80	0.22	
5/7/24 13:44	11.26	10.86	0.21	
5/7/24 13:45	11.33	11.01	0.21	
5/7/24 13:46	11.34	11.05	0.19	
5/7/24 13:47	10.04	11.04	1.74	
5/7/24 13:48	4.87	10.89	0.90	
5/7/24 13:49	5.02	10.79	0.00	
5/7/24 13:50	5.06	10.83	0.00	
5/7/24 13:51	5.25	10.74	0.74	
5/7/24 13:52	5.11	10.70	12.23	
5/7/24 13:53	5.00	10.89	12.48	
5/7/24 13:54	5.01	11.03	12.51	
5/7/24 13:55	5.18	11.02	12.20	
5/7/24 13:56	4.90	11.10	0.64	
5/7/24 13:57	4.85	11.12	0.00	
5/7/24 13:58	4.83	11.18	0.00	
5/7/24 13:59	4.95	11.19	0.00	
5/7/24 14:00	4.70	11.14	0.00	
5/7/24 14:01	4.66	11.19	0.00	
5/7/24 14:02	4.67	11.26	0.00	
5/7/24 14:03	4.83	11.20	0.00	
5/7/24 14:04	4.67	11.25	0.10	
5/7/24 14:05	4.62	11.27	0.13	
5/7/24 14:06	4.64	11.27	0.14	
5/7/24 14:07	4.62	11.33	0.13	
5/7/24 14:08	4.64	11.16	0.13	
5/7/24 14:09	4.57	11.16	0.11	

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Date / Time	O2	CO2	THC	Notes
5/7/24 14:10	4.64	11.20	0.13	
5/7/24 14:11	4.66	11.31	0.15	
5/7/24 14:12	4.79	11.20	0.15	
5/7/24 14:13	4.73	11.16	0.14	
5/7/24 14:14	4.64	11.21	0.14	
5/7/24 14:15	4.65	11.26	0.15	
5/7/24 14:16	4.94	11.03	0.18	
5/7/24 14:17	4.82	10.99	0.18	
5/7/24 14:18	4.83	11.06	0.21	
5/7/24 14:19	4.91	11.10	0.22	
5/7/24 14:20	4.96	11.13	0.21	
5/7/24 14:21	4.79	11.18	0.22	
5/7/24 14:22	4.60	11.28	0.22	
5/7/24 14:23	4.57	11.30	0.19	
5/7/24 14:24	4.71	11.21	0.21	
5/7/24 14:25	4.65	11.03	0.22	Start Run 2
5/7/24 14:26	4.53	11.18	0.21	
5/7/24 14:27	4.58	11.29	0.21	
5/7/24 14:28	4.73	11.28	0.24	
5/7/24 14:29	4.61	11.27	0.22	
5/7/24 14:30	4.61	11.23	0.22	
5/7/24 14:31	4.69	11.18	0.22	
5/7/24 14:32	4.62	11.28	0.22	
5/7/24 14:33	4.60	11.21	0.22	
5/7/24 14:34	4.32	11.36	0.21	
5/7/24 14:35	4.59	11.29	0.23	
5/7/24 14:36	4.72	11.29	0.23	
5/7/24 14:37	4.75	11.24	0.24	
5/7/24 14:38	4.73	11.19	0.24	
5/7/24 14:39	4.67	11.14	0.23	
5/7/24 14:40	4.65	11.16	0.22	
5/7/24 14:41	4.89	11.05	0.24	
5/7/24 14:42	4.78	10.95	0.25	
5/7/24 14:43	4.71	11.11	0.24	
5/7/24 14:44	4.84	11.16	0.24	
5/7/24 14:45	4.89	11.18	0.25	
5/7/24 14:46	4.75	11.15	0.23	
5/7/24 14:47	4.91	11.08	0.23	
5/7/24 14:48	4.86	11.19	0.23	
5/7/24 14:49	4.84	11.31	0.23	
5/7/24 14:50	4.75	11.28	0.22	
5/7/24 14:51	4.47	11.47	0.23	
5/7/24 14:52	4.61	11.47	0.22	
5/7/24 14:53	4.49	11.62	0.21	
5/7/24 14:54	4.67	11.52	0.22	
5/7/24 14:55	4.62	11.48	0.21	
5/7/24 14:56	4.59	11.42	0.21	
5/7/24 14:57	4.35	11.50	0.19	
5/7/24 14:58	4.62	11.33	0.21	
5/7/24 14:59	4.65	11.06	0.20	
5/7/24 15:00	4.43	11.20	0.20	
5/7/24 15:01	4.60	11.12	0.19	
5/7/24 15:02	4.51	11.23	0.18	
5/7/24 15:03	4.51	11.19	0.19	
5/7/24 15:04	4.67	11.06	0.19	
5/7/24 15:05	4.55	11.12	0.18	
5/7/24 15:06	4.49	11.18	0.18	

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Date / Time	O2	CO2	THC	Notes
5/7/24 15:07	4.82	10.98	0.21	
5/7/24 15:08	4.56	10.89	0.19	
5/7/24 15:09	4.43	10.93	0.19	
5/7/24 15:10	4.59	10.84	0.18	
5/7/24 15:11	4.55	10.90	0.18	
5/7/24 15:12	4.47	10.92	0.18	
5/7/24 15:13	4.49	10.82	0.18	
5/7/24 15:14	4.29	10.93	0.17	
5/7/24 15:15	4.13	11.06	0.16	
5/7/24 15:16	4.50	10.83	0.18	
5/7/24 15:17	4.39	10.79	0.16	
5/7/24 15:18	4.37	10.84	0.17	
5/7/24 15:19	4.51	10.76	0.18	
5/7/24 15:20	4.82	10.60	0.20	
5/7/24 15:21	4.76	10.66	0.21	
5/7/24 15:22	4.55	10.78	0.18	
5/7/24 15:23	4.54	10.79	0.18	
5/7/24 15:24	4.62	10.73	0.18	End THC 1 hr block
5/7/24 15:25	4.79	10.61	0.18	
5/7/24 15:26	4.65	10.68	0.24	
5/7/24 15:27	4.70	10.74	1.50	
5/7/24 15:28	4.63	10.93	0.00	
5/7/24 15:29	4.87	10.87	0.00	
5/7/24 15:30	4.89	10.81	1.66	
5/7/24 15:31	4.75	10.95	12.38	
5/7/24 15:32	4.72	11.03	12.50	
5/7/24 15:33	4.79	11.11	12.52	
5/7/24 15:34	4.75	11.02	12.54	
5/7/24 15:35	4.44	11.25	12.55	
5/7/24 15:36	4.88	11.09	8.48	
5/7/24 15:37	4.95	11.13	0.15	
5/7/24 15:38	5.03	11.10	0.15	Start THC 1 hr block
5/7/24 15:39	4.99	11.12	0.15	
5/7/24 15:40	4.93	11.14	0.13	
5/7/24 15:41	4.83	11.27	0.14	
5/7/24 15:42	4.99	11.18	0.13	
5/7/24 15:43	4.75	11.22	0.11	
5/7/24 15:44	4.76	11.31	0.13	
5/7/24 15:45	4.83	11.35	0.13	
5/7/24 15:46	5.05	11.20	0.11	
5/7/24 15:47	5.02	11.13	0.12	
5/7/24 15:48	4.89	11.19	0.13	
5/7/24 15:49	4.83	11.24	0.11	
5/7/24 15:50	4.79	11.28	0.11	
5/7/24 15:51	4.81	11.16	0.10	
5/7/24 15:52	4.64	11.17	0.10	
5/7/24 15:53	4.78	11.11	0.11	
5/7/24 15:54	4.71	11.19	0.12	
5/7/24 15:55	4.68	11.23	0.12	
5/7/24 15:56	4.81	11.10	0.11	
5/7/24 15:57	4.72	11.13	0.11	
5/7/24 15:58	4.49	11.28	0.10	
5/7/24 15:59	4.93	10.99	0.10	
5/7/24 16:00	4.72	10.98	0.11	
5/7/24 16:01	4.52	11.10	0.10	
5/7/24 16:02	4.66	11.04	0.10	
5/7/24 16:03	4.70	11.00	0.11	

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Date / Time	O2	CO2	THC	Notes
5/7/24 16:04	4.70	10.99	0.10	
5/7/24 16:05	4.70	10.98	0.10	
5/7/24 16:06	4.72	10.96	0.11	
5/7/24 16:07	4.59	11.05	0.12	
5/7/24 16:08	4.75	10.94	0.11	
5/7/24 16:09	4.71	10.76	0.12	
5/7/24 16:10	4.44	11.01	0.10	
5/7/24 16:11	4.55	11.07	0.11	
5/7/24 16:12	4.74	10.99	0.12	
5/7/24 16:13	4.66	11.05	0.12	
5/7/24 16:14	4.68	11.00	0.12	
5/7/24 16:15	4.82	10.90	0.13	
5/7/24 16:16	4.78	11.01	0.13	
5/7/24 16:17	4.89	10.96	0.13	
5/7/24 16:18	4.60	11.06	0.11	
5/7/24 16:19	4.55	11.16	0.11	
5/7/24 16:20	4.70	11.14	0.13	
5/7/24 16:21	4.79	11.12	0.13	
5/7/24 16:22	4.80	11.08	0.14	
5/7/24 16:23	4.76	11.09	0.13	
5/7/24 16:24	4.83	11.04	0.14	
5/7/24 16:25	5.05	10.94	0.13	
5/7/24 16:26	5.09	10.81	0.15	
5/7/24 16:27	4.70	11.08	0.13	
5/7/24 16:28	4.80	11.11	0.14	
5/7/24 16:29	4.79	11.17	0.12	
5/7/24 16:30	4.75	11.14	0.12	
5/7/24 16:31	4.66	11.16	0.11	
5/7/24 16:32	4.41	11.31	0.10	
5/7/24 16:33	4.39	11.34	0.10	
5/7/24 16:34	4.66	11.19	0.10	
5/7/24 16:35	4.57	11.05	0.11	
5/7/24 16:36	4.63	10.97	0.12	
5/7/24 16:37	4.67	10.99	0.12	
5/7/24 16:38	4.66	11.04	0.12	
5/7/24 16:39	4.79	10.90	0.12	
5/7/24 16:40	4.74	10.91	0.11	
5/7/24 16:41	4.63	10.92	0.12	
5/7/24 16:42	4.64	10.95	0.10	
5/7/24 16:43	4.75	10.89	0.11	
5/7/24 16:44	4.57	10.91	0.09	
5/7/24 16:45	4.58	10.95	0.11	
5/7/24 16:46	4.64	10.99	0.10	
5/7/24 16:47	4.69	10.98	0.10	
5/7/24 16:48	4.64	10.97	0.09	
5/7/24 16:49	4.37	11.20	0.10	
5/7/24 16:50	4.34	11.28	0.10	
5/7/24 16:51	4.31	11.38	0.10	
5/7/24 16:52	4.35	11.25	0.09	
5/7/24 16:53	4.12	11.37	0.07	
5/7/24 16:54	4.23	11.40	0.07	
5/7/24 16:55	4.16	11.60	0.07	
5/7/24 16:56	4.26	11.57	0.07	
5/7/24 16:57	4.45	11.43	0.09	
5/7/24 16:58	4.62	11.24	0.09	
5/7/24 16:59	4.59	11.25	0.09	
5/7/24 17:00	4.73	11.24	0.09	

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Date / Time	O2	CO2	THC	Notes
5/7/24 17:01	4.65	11.13	0.09	
5/7/24 17:02	4.60	11.19	0.08	
5/7/24 17:03	4.81	11.08	4.32	
5/7/24 17:04	4.94	10.98	12.76	
5/7/24 17:05	4.94	10.91	12.47	
5/7/24 17:06	4.84	10.95	12.47	
5/7/24 17:07	4.78	10.95	9.24	
5/7/24 17:08	4.74	10.98	0.00	
5/7/24 17:09	4.93	10.83	0.00	
5/7/24 17:10	4.74	10.79	0.01	
5/7/24 17:11	4.68	10.91	0.04	
5/7/24 17:12	4.63	10.99	0.03	
5/7/24 17:13	4.60	11.02	0.03	Start THC 1 hr block
5/7/24 17:14	4.50	10.98	0.04	
5/7/24 17:15	4.62	10.86	0.03	
5/7/24 17:16	4.58	10.91	0.02	
5/7/24 17:17	4.46	11.06	0.01	
5/7/24 17:18	4.65	10.93	0.01	
5/7/24 17:19	4.40	11.01	0.01	
5/7/24 17:20	4.67	10.82	0.03	
5/7/24 17:21	4.69	10.89	0.04	
5/7/24 17:22	4.75	10.94	0.02	
5/7/24 17:23	4.64	10.99	0.02	
5/7/24 17:24	4.76	10.97	0.03	
5/7/24 17:25	4.80	10.95	0.03	
5/7/24 17:26	5.00	10.91	0.03	
5/7/24 17:27	4.87	10.90	0.03	
5/7/24 17:28	4.62	11.08	0.01	
5/7/24 17:29	4.80	11.00	0.01	
5/7/24 17:30	4.75	11.07	0.01	
5/7/24 17:31	4.56	11.14	0.01	
5/7/24 17:32	4.56	11.09	0.02	
5/7/24 17:33	4.46	11.14	0.03	
5/7/24 17:34	4.39	11.19	0.01	
5/7/24 17:35	4.59	11.13	0.01	
5/7/24 17:36	4.49	10.95	0.01	
5/7/24 17:37	4.41	10.96	0.01	
5/7/24 17:38	4.58	10.88	0.01	
5/7/24 17:39	4.60	10.92	0.01	
5/7/24 17:40	4.56	10.97	0.00	
5/7/24 17:41	4.52	10.98	0.00	
5/7/24 17:42	4.60	10.88	0.00	
5/7/24 17:43	4.56	10.91	0.00	
5/7/24 17:44	4.70	10.88	0.00	
5/7/24 17:45	4.52	10.86	0.00	
5/7/24 17:46	4.48	10.90	0.00	
5/7/24 17:47	4.56	10.84	0.00	
5/7/24 17:48	4.77	10.73	0.01	
5/7/24 17:49	4.76	10.73	0.01	
5/7/24 17:50	4.52	10.88	0.00	
5/7/24 17:51	4.59	10.82	0.00	
5/7/24 17:52	4.48	10.91	0.00	
5/7/24 17:53	4.71	10.76	0.00	
5/7/24 17:54	4.66	10.70	0.00	
5/7/24 17:55	4.57	10.85	0.00	
5/7/24 17:56	4.64	10.93	0.00	
5/7/24 17:57	4.74	10.93	0.00	

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Date / Time	O2	CO2	THC	Notes
5/7/24 17:58	4.73	10.86	0.00	
5/7/24 17:59	4.79	10.77	0.00	
5/7/24 18:00	4.74	10.82	0.00	
5/7/24 18:01	4.63	10.97	0.00	
5/7/24 18:02	4.77	10.86	0.00	
5/7/24 18:03	4.55	10.92	0.00	
5/7/24 18:04	4.54	10.87	0.00	
5/7/24 18:05	4.66	10.83	0.00	
5/7/24 18:06	4.76	10.82	0.00	
5/7/24 18:07	4.65	10.86	0.00	
5/7/24 18:08	4.52	10.94	0.00	
5/7/24 18:09	4.57	10.88	0.00	
5/7/24 18:10	4.65	10.83	0.00	
5/7/24 18:11	4.72	10.70	0.00	
5/7/24 18:12	4.56	10.74	0.00	
5/7/24 18:13	4.53	10.82	0.00	
5/7/24 18:14	4.47	10.88	0.00	
5/7/24 18:15	4.67	10.72	0.00	
5/7/24 18:16	4.59	10.73	0.00	
5/7/24 18:17	4.40	10.85	0.00	
5/7/24 18:18	4.43	10.84	0.00	
5/7/24 18:19	4.42	10.90	0.00	
5/7/24 18:20	4.35	10.87	0.00	
5/7/24 18:21	4.44	10.82	0.00	
5/7/24 18:22	4.68	10.75	0.00	
5/7/24 18:23	4.56	10.93	0.36	
5/7/24 18:24	4.63	10.95	0.05	
5/7/24 18:25	4.62	10.96	0.00	
5/7/24 18:26	4.64	10.93	0.00	
5/7/24 18:27	4.67	10.95	0.00	
5/7/24 18:28	4.86	10.92	0.00	
5/7/24 18:29	4.76	10.85	0.00	
5/7/24 18:30	4.54	10.99	2.92	
5/7/24 18:31	4.65	10.91	12.21	
5/7/24 18:32	4.90	10.78	12.28	
5/7/24 18:33	4.81	10.83	12.30	
5/7/24 18:34	4.57	10.97	5.39	
5/7/24 18:35	4.44	11.01	0.00	
5/7/24 18:36	4.52	10.95	0.00	
5/7/24 18:37	4.65	10.80	0.00	
5/7/24 18:38	4.70	10.63	0.00	
5/7/24 18:39	4.44	10.86	0.00	
5/7/24 18:40	4.51	10.86	0.00	
5/7/24 18:41	4.51	10.88	0.00	
5/7/24 18:42	4.42	10.82	0.00	
5/7/24 18:43	4.31	10.88	0.00	
5/7/24 18:44	4.39	10.83	0.00	
5/7/24 18:45	4.21	11.00	0.00	
5/7/24 18:46	4.43	10.92	0.00	
5/7/24 18:47	4.34	10.88	0.00	
5/7/24 18:48	4.39	10.81	0.00	
5/7/24 18:49	4.52	10.80	0.00	
5/7/24 18:50	4.62	10.84	0.00	
5/7/24 18:51	4.64	10.87	0.00	
5/7/24 18:52	4.59	10.94	0.00	
5/7/24 18:53	4.72	10.85	0.00	
5/7/24 18:54	4.64	10.95	0.00	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/7/24 18:55	4.75	10.87	0.00	
5/7/24 18:56	4.58	10.96	0.00	
5/7/24 18:57	4.42	7.98	0.00	
5/7/24 18:58	0.19	0.14	0.00	
5/7/24 18:59	0.16	0.08	0.00	
5/7/24 19:00	0.15	0.07	0.00	
5/7/24 19:01	1.51	2.00	0.00	
5/7/24 19:02	11.21	10.95	0.00	
5/7/24 19:03	11.27	11.07	0.00	
5/7/24 19:04	11.28	11.10	0.00	
5/7/24 19:05	13.51	7.89	2.13	
5/7/24 19:06	20.78	0.18	12.28	
5/7/24 19:07	20.80	0.14	12.27	
5/7/24 19:08	20.83	0.12	11.26	
5/7/24 19:09	20.83	0.11	0.99	
5/7/24 19:10	20.84	0.10	0.00	
5/7/24 19:11	20.84	0.10	0.00	
5/7/24 19:12	20.84	0.09	0.00	
5/7/24 19:13	20.85	0.09	0.14	
5/7/24 19:14	20.84	0.09	0.60	
5/7/24 19:15	20.85	0.09	0.56	
5/7/24 19:16	20.85	0.08	0.50	
5/7/24 19:17	20.84	0.08	0.00	
5/7/24 19:18	20.85	0.08	0.00	
5/8/24 7:38	20.84	0.09	0.87	
5/8/24 7:39	20.87	0.07	0.53	
5/8/24 7:40	20.86	0.08	0.40	
5/8/24 7:41	20.89	0.06	0.75	
5/8/24 7:42	7.18	0.03	0.01	
5/8/24 7:43	0.02	0.00	0.51	
5/8/24 7:44	17.91	12.16	0.41	
5/8/24 7:45	22.14	21.57	0.24	
5/8/24 7:46	22.91	22.80	0.00	
5/8/24 7:47	15.27	14.74	0.40	
5/8/24 7:48	10.06	10.17	0.21	
5/8/24 7:49	4.88	9.53	0.22	
5/8/24 7:50	4.99	10.04	0.00	
5/8/24 7:51	4.87	10.20	0.00	
5/8/24 7:52	4.85	10.28	0.00	
5/8/24 7:53	4.97	10.23	10.31	
5/8/24 7:54	4.77	10.26	15.01	
5/8/24 7:55	4.78	10.26	18.25	
5/8/24 7:56	4.45	10.56	21.57	
5/8/24 7:57	4.40	10.66	21.56	
5/8/24 7:58	4.49	10.62	15.10	
5/8/24 7:59	4.56	10.58	7.25	
5/8/24 8:00	4.51	10.60	7.38	
5/8/24 8:01	4.62	10.56	7.37	
5/8/24 8:02	4.75	10.50	6.95	
5/8/24 8:03	4.67	10.58	12.25	
5/8/24 8:04	4.79	10.50	12.50	
5/8/24 8:05	4.90	10.32	12.53	
5/8/24 8:06	5.14	10.16	8.78	
5/8/24 8:07	1.97	2.69	0.37	
5/8/24 8:08	0.05	0.08	0.37	
5/8/24 8:09	0.04	0.06	0.38	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/8/24 8:10	3.51	3.95	0.38	
5/8/24 8:11	11.21	11.19	0.40	
5/8/24 8:12	11.23	11.24	0.40	
5/8/24 8:13	11.24	11.26	0.40	
5/8/24 8:14	8.45	10.86	0.39	
5/8/24 8:15	4.91	10.42	0.37	
5/8/24 8:16	5.13	10.15	0.37	
5/8/24 8:17	5.06	10.20	0.37	
5/8/24 8:18	5.02	10.25	0.37	
5/8/24 8:19	4.78	10.43	0.35	
5/8/24 8:20	4.73	10.44	0.34	
5/8/24 8:21	5.08	10.16	0.36	
5/8/24 8:22	5.06	10.12	0.35	
5/8/24 8:23	4.92	10.21	0.34	
5/8/24 8:24	4.71	10.35	0.33	
5/8/24 8:25	4.40	10.57	0.31	Start Run 3
5/8/24 8:26	4.41	10.59	0.33	
5/8/24 8:27	4.48	10.48	0.33	
5/8/24 8:28	4.50	10.45	0.33	
5/8/24 8:29	4.54	10.45	0.33	
5/8/24 8:30	4.48	10.52	0.32	
5/8/24 8:31	4.34	10.62	0.31	
5/8/24 8:32	4.42	10.53	0.32	
5/8/24 8:33	4.54	10.39	0.32	
5/8/24 8:34	4.67	10.34	0.32	
5/8/24 8:35	4.52	10.48	0.31	
5/8/24 8:36	4.46	10.54	0.31	
5/8/24 8:37	4.39	10.58	0.31	
5/8/24 8:38	4.43	10.47	0.31	
5/8/24 8:39	4.56	10.40	0.32	
5/8/24 8:40	4.46	10.52	0.31	
5/8/24 8:41	4.27	10.65	0.31	
5/8/24 8:42	4.41	10.57	0.31	
5/8/24 8:43	4.32	10.63	0.31	
5/8/24 8:44	4.33	10.59	0.33	
5/8/24 8:45	4.21	10.69	0.31	
5/8/24 8:46	4.41	10.60	0.33	
5/8/24 8:47	4.45	10.60	0.33	
5/8/24 8:48	4.22	10.83	0.33	
5/8/24 8:49	3.26	11.60	0.29	
5/8/24 8:50	4.74	10.38	0.33	
5/8/24 8:51	5.69	9.67	0.32	
5/8/24 8:52	5.48	9.88	0.32	
5/8/24 8:53	5.16	10.15	0.30	
5/8/24 8:54	4.78	10.44	0.29	
5/8/24 8:55	4.88	10.41	0.28	
5/8/24 8:56	4.68	10.64	0.27	
5/8/24 8:57	4.46	10.89	0.25	
5/8/24 8:58	4.37	11.03	0.22	
5/8/24 8:59	4.24	11.16	0.19	
5/8/24 9:00	4.14	11.23	0.17	
5/8/24 9:01	4.30	11.16	0.15	
5/8/24 9:02	4.44	11.11	0.13	
5/8/24 9:03	4.40	11.19	0.10	
5/8/24 9:04	4.27	11.31	0.09	
5/8/24 9:05	4.30	11.28	0.07	
5/8/24 9:06	4.56	11.07	0.06	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/8/24 9:07	4.46	11.13	0.04	
5/8/24 9:08	4.45	11.17	0.04	
5/8/24 9:09	4.44	11.22	0.03	
5/8/24 9:10	4.29	11.35	0.01	
5/8/24 9:11	4.43	11.17	0.01	
5/8/24 9:12	4.56	11.08	0.01	
5/8/24 9:13	4.44	11.17	0.00	
5/8/24 9:14	4.48	11.17	0.01	
5/8/24 9:15	4.52	11.16	0.00	
5/8/24 9:16	4.29	11.29	0.00	
5/8/24 9:17	4.43	11.17	0.00	
5/8/24 9:18	4.61	11.07	0.00	
5/8/24 9:19	4.66	11.05	0.00	
5/8/24 9:20	4.48	11.19	0.00	
5/8/24 9:21	4.51	11.20	0.00	
5/8/24 9:22	4.64	11.05	0.00	
5/8/24 9:23	4.80	10.93	0.00	
5/8/24 9:24	4.60	11.04	0.00	End THC 1 hr block
5/8/24 9:25	4.66	11.02	0.75	
5/8/24 9:26	4.65	11.09	0.36	
5/8/24 9:27	4.69	11.07	0.00	
5/8/24 9:28	4.70	11.00	0.00	
5/8/24 9:29	4.68	11.02	2.19	
5/8/24 9:30	4.67	11.03	12.32	
5/8/24 9:31	4.67	11.04	12.46	
5/8/24 9:32	4.61	11.10	12.48	
5/8/24 9:33	4.43	11.18	5.39	
5/8/24 9:34	4.56	11.10	0.06	
5/8/24 9:35	4.64	11.05	0.04	Start THC 1 hr block
5/8/24 9:36	4.49	11.16	0.04	
5/8/24 9:37	4.45	11.20	0.04	
5/8/24 9:38	4.69	11.05	0.04	
5/8/24 9:39	4.54	11.10	0.05	
5/8/24 9:40	4.65	11.05	0.07	
5/8/24 9:41	4.60	11.06	0.07	
5/8/24 9:42	4.56	11.09	0.04	
5/8/24 9:43	4.56	11.12	0.04	
5/8/24 9:44	4.40	11.23	0.05	
5/8/24 9:45	4.66	11.04	0.07	
5/8/24 9:46	4.57	11.10	0.06	
5/8/24 9:47	4.59	11.07	0.06	
5/8/24 9:48	4.63	11.05	0.05	
5/8/24 9:49	4.52	11.14	0.07	
5/8/24 9:50	4.54	11.08	0.07	
5/8/24 9:51	4.50	11.13	0.07	
5/8/24 9:52	4.47	11.16	0.07	
5/8/24 9:53	4.47	11.17	0.07	
5/8/24 9:54	4.57	11.10	0.07	
5/8/24 9:55	4.46	11.17	0.07	
5/8/24 9:56	4.44	11.18	0.07	
5/8/24 9:57	4.48	11.15	0.07	
5/8/24 9:58	4.72	10.98	0.07	
5/8/24 9:59	4.55	11.08	0.07	
5/8/24 10:00	4.61	11.07	0.07	
5/8/24 10:01	4.51	11.12	0.07	
5/8/24 10:02	4.49	11.14	0.07	
5/8/24 10:03	4.54	11.10	0.07	

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Date / Time	O2	CO2	THC	Notes
5/8/24 10:04	4.56	11.09	0.07	
5/8/24 10:05	4.55	11.10	0.07	
5/8/24 10:06	4.53	11.11	0.07	
5/8/24 10:07	4.58	11.05	0.07	
5/8/24 10:08	4.37	11.19	0.08	
5/8/24 10:09	4.63	11.04	0.09	
5/8/24 10:10	4.59	11.07	0.09	
5/8/24 10:11	4.65	11.04	0.09	
5/8/24 10:12	4.60	11.03	0.09	
5/8/24 10:13	4.62	11.04	0.10	
5/8/24 10:14	4.52	11.11	0.10	
5/8/24 10:15	4.76	10.94	0.10	
5/8/24 10:16	4.56	11.07	0.10	
5/8/24 10:17	4.51	11.10	0.10	
5/8/24 10:18	4.63	11.03	0.10	
5/8/24 10:19	4.73	10.98	0.10	
5/8/24 10:20	4.65	11.02	0.10	
5/8/24 10:21	4.53	11.11	0.10	
5/8/24 10:22	4.37	11.22	0.10	
5/8/24 10:23	4.44	11.15	0.10	
5/8/24 10:24	4.56	11.06	0.10	
5/8/24 10:25	4.49	11.10	0.10	
5/8/24 10:26	4.54	11.10	0.10	
5/8/24 10:27	4.49	11.16	0.10	
5/8/24 10:28	4.47	11.14	0.10	
5/8/24 10:29	4.56	11.06	0.10	
5/8/24 10:30	4.53	11.09	0.10	
5/8/24 10:31	4.44	11.16	0.12	
5/8/24 10:32	4.53	11.12	0.11	
5/8/24 10:33	4.50	11.12	0.11	
5/8/24 10:34	4.63	11.00	0.11	End THC 1 hr block
5/8/24 10:35	4.83	10.89	5.88	
5/8/24 10:36	4.69	11.00	12.61	
5/8/24 10:37	4.51	11.11	12.55	
5/8/24 10:38	4.58	11.07	7.18	
5/8/24 10:39	4.42	11.15	0.00	
5/8/24 10:40	4.56	11.06	0.00	
5/8/24 10:41	4.65	10.98	0.00	
5/8/24 10:42	4.33	11.19	0.12	
5/8/24 10:43	4.68	11.00	0.12	Start THC 1 hr block
5/8/24 10:44	4.64	11.04	0.12	
5/8/24 10:45	4.56	11.04	0.10	
5/8/24 10:46	4.60	11.01	0.11	
5/8/24 10:47	4.57	11.04	0.13	
5/8/24 10:48	4.54	11.06	0.11	
5/8/24 10:49	4.58	11.06	0.11	
5/8/24 10:50	4.60	11.00	0.11	
5/8/24 10:51	4.62	10.98	0.12	
5/8/24 10:52	4.63	10.99	0.12	
5/8/24 10:53	4.60	11.02	0.13	
5/8/24 10:54	4.52	11.09	0.13	
5/8/24 10:55	4.34	11.22	0.11	
5/8/24 10:56	4.40	11.13	0.12	
5/8/24 10:57	4.48	11.09	0.13	
5/8/24 10:58	4.67	10.95	0.13	
5/8/24 10:59	4.59	11.00	0.13	
5/8/24 11:00	4.48	11.12	0.13	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/8/24 11:01	4.44	11.13	0.13	
5/8/24 11:02	4.48	11.10	0.13	
5/8/24 11:03	4.65	10.98	0.13	
5/8/24 11:04	4.61	10.99	0.14	
5/8/24 11:05	4.57	11.04	0.13	
5/8/24 11:06	4.52	11.09	0.13	
5/8/24 11:07	4.52	11.02	0.13	
5/8/24 11:08	4.61	10.97	0.13	
5/8/24 11:09	4.62	10.99	0.13	
5/8/24 11:10	4.62	11.00	0.13	
5/8/24 11:11	4.57	11.06	0.13	
5/8/24 11:12	4.45	11.10	0.13	
5/8/24 11:13	4.63	10.98	0.13	
5/8/24 11:14	4.50	11.06	0.13	
5/8/24 11:15	4.57	11.03	0.13	
5/8/24 11:16	4.52	11.05	0.14	
5/8/24 11:17	4.52	11.07	0.14	
5/8/24 11:18	4.66	10.96	0.14	
5/8/24 11:19	4.70	10.94	0.15	
5/8/24 11:20	4.58	11.00	0.15	
5/8/24 11:21	4.60	11.00	0.15	
5/8/24 11:22	4.45	11.12	0.15	
5/8/24 11:23	4.39	11.14	0.14	
5/8/24 11:24	4.54	11.02	0.15	
5/8/24 11:25	4.58	10.99	0.15	
5/8/24 11:26	4.64	10.98	0.15	
5/8/24 11:27	4.59	11.03	0.15	
5/8/24 11:28	4.62	11.01	0.15	
5/8/24 11:29	4.72	10.90	0.15	
5/8/24 11:30	4.72	10.90	0.15	
5/8/24 11:31	4.68	10.92	0.15	
5/8/24 11:32	4.66	10.96	0.16	
5/8/24 11:33	4.67	10.96	0.16	
5/8/24 11:34	4.50	11.04	0.15	
5/8/24 11:35	4.66	10.95	0.15	
5/8/24 11:36	4.59	11.01	0.15	
5/8/24 11:37	4.50	11.06	0.16	
5/8/24 11:38	4.43	11.12	0.16	
5/8/24 11:39	4.47	11.10	0.16	
5/8/24 11:40	4.48	11.05	0.18	
5/8/24 11:41	4.69	10.92	0.17	
5/8/24 11:42	4.53	11.01	0.18	
5/8/24 11:43	4.54	11.04	0.18	
5/8/24 11:44	4.39	11.17	0.18	
5/8/24 11:45	4.44	11.09	0.18	
5/8/24 11:46	4.76	10.87	0.76	
5/8/24 11:47	4.74	10.89	0.11	
5/8/24 11:48	4.71	10.92	0.04	
5/8/24 11:49	4.66	10.98	0.04	
5/8/24 11:50	4.59	11.00	0.04	
5/8/24 11:51	4.54	10.98	0.03	
5/8/24 11:52	4.64	10.95	11.01	
5/8/24 11:53	4.49	11.06	12.51	
5/8/24 11:54	4.46	11.09	12.55	
5/8/24 11:55	4.42	11.13	12.55	
5/8/24 11:56	4.44	11.07	2.81	
5/8/24 11:57	4.61	10.96	0.16	

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Date / Time	O2	CO2	THC	Notes
5/8/24 11:58	4.72	10.88	0.15	Start THC 1 hr block
5/8/24 11:59	4.59	10.96	0.15	
5/8/24 12:00	4.59	11.00	0.16	
5/8/24 12:01	4.46	11.09	0.15	
5/8/24 12:02	4.44	11.07	0.15	
5/8/24 12:03	4.51	11.02	0.18	
5/8/24 12:04	4.52	11.02	0.16	
5/8/24 12:05	4.69	10.94	0.18	
5/8/24 12:06	4.61	11.01	0.17	
5/8/24 12:07	4.56	10.97	0.15	
5/8/24 12:08	4.44	11.05	0.15	
5/8/24 12:09	4.32	11.16	0.15	
5/8/24 12:10	4.34	11.17	0.15	
5/8/24 12:11	4.42	11.14	0.17	
5/8/24 12:12	4.40	11.13	0.18	
5/8/24 12:13	4.57	10.96	0.18	
5/8/24 12:14	4.50	11.01	0.18	
5/8/24 12:15	4.70	10.90	0.20	
5/8/24 12:16	4.72	10.89	0.21	
5/8/24 12:17	4.70	10.92	0.19	
5/8/24 12:18	4.63	10.93	0.21	
5/8/24 12:19	4.72	10.88	0.21	
5/8/24 12:20	4.68	10.89	0.21	
5/8/24 12:21	4.62	10.94	0.21	
5/8/24 12:22	4.50	11.04	0.21	
5/8/24 12:23	4.45	11.08	0.20	
5/8/24 12:24	4.56	10.94	0.20	
5/8/24 12:25	4.65	10.88	0.21	
5/8/24 12:26	4.62	10.93	0.21	
5/8/24 12:27	4.54	11.01	0.21	
5/8/24 12:28	4.52	11.05	0.21	
5/8/24 12:29	4.46	11.03	0.21	
5/8/24 12:30	4.57	10.95	0.21	
5/8/24 12:31	4.55	10.96	0.21	
5/8/24 12:32	4.53	11.00	0.21	
5/8/24 12:33	4.59	10.96	0.21	
5/8/24 12:34	4.57	10.99	0.22	
5/8/24 12:35	4.70	10.86	0.21	
5/8/24 12:36	4.74	10.85	0.21	
5/8/24 12:37	4.73	10.85	0.21	
5/8/24 12:38	4.68	10.90	0.21	
5/8/24 12:39	4.75	10.88	0.23	
5/8/24 12:40	4.70	10.88	0.23	
5/8/24 12:41	4.75	10.82	0.23	
5/8/24 12:42	4.75	10.81	0.24	
5/8/24 12:43	4.71	10.86	0.24	
5/8/24 12:44	4.51	11.02	0.22	
5/8/24 12:45	4.63	10.96	0.23	
5/8/24 12:46	4.55	10.96	0.23	
5/8/24 12:47	4.61	10.92	0.24	
5/8/24 12:48	4.60	10.94	0.24	
5/8/24 12:49	4.61	10.96	0.22	
5/8/24 12:50	4.61	10.96	0.21	
5/8/24 12:51	4.50	10.99	0.22	
5/8/24 12:52	4.62	10.93	0.24	
5/8/24 12:53	4.64	10.92	0.24	
5/8/24 12:54	4.55	10.97	0.28	

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/8/24 12:55	4.47	11.05	0.25	
5/8/24 12:56	4.51	11.03	0.24	
5/8/24 12:57	4.55	10.97	0.24	End THC 1 hr block
5/8/24 12:58	4.70	10.87	0.25	
5/8/24 12:59	4.57	10.93	0.25	
5/8/24 13:00	1.01	1.29	0.25	
5/8/24 13:01	0.11	0.10	0.23	
5/8/24 13:02	0.11	0.08	0.25	
5/8/24 13:03	0.10	0.07	0.26	
5/8/24 13:04	0.10	0.06	0.26	
5/8/24 13:05	0.32	0.64	0.26	
5/8/24 13:06	9.24	9.22	0.27	
5/8/24 13:07	11.21	10.92	0.27	
5/8/24 13:08	11.23	10.95	0.27	
5/8/24 13:09	9.04	10.95	1.26	
5/8/24 13:10	4.71	10.89	0.35	
5/8/24 13:11	4.66	10.90	0.12	
5/8/24 13:12	4.66	10.91	0.08	
5/8/24 13:13	4.67	10.87	0.07	
5/8/24 13:14	4.75	10.81	0.05	
5/8/24 13:15	4.76	10.79	10.85	
5/8/24 13:16	4.84	10.71	12.50	
5/8/24 13:17	4.76	10.80	12.54	
5/8/24 13:18	4.69	10.86	6.66	
5/8/24 13:19	4.56	10.90	0.26	
5/8/24 13:20	4.65	10.85	0.24	
5/8/24 13:21	4.71	10.82	0.24	
5/8/24 13:22	4.65	10.86	0.24	
5/8/24 13:23	4.64	10.89	0.24	
5/8/24 13:24	4.45	10.96	0.23	
5/8/24 13:25	4.53	10.92	0.23	
5/8/24 13:26	4.70	10.84	0.24	
5/8/24 13:27	4.59	10.92	0.25	
5/8/24 13:28	4.47	11.01	0.24	
5/8/24 13:29	4.54	10.96	0.24	
5/8/24 13:30	4.65	10.84	0.24	
5/8/24 13:31	4.70	10.83	0.24	
5/8/24 13:32	4.68	10.84	0.24	
5/8/24 13:33	4.59	10.92	0.24	
5/8/24 13:34	4.57	10.97	0.24	
5/8/24 13:35	4.54	10.93	0.22	
5/8/24 13:36	4.56	10.92	0.24	Start Run 4
5/8/24 13:37	4.65	10.88	0.24	
5/8/24 13:38	4.66	10.91	0.24	
5/8/24 13:39	4.63	10.94	0.24	
5/8/24 13:40	4.74	10.82	0.24	
5/8/24 13:41	4.92	10.62	0.26	
5/8/24 13:42	4.59	10.87	0.24	
5/8/24 13:43	4.56	10.95	0.24	
5/8/24 13:44	4.50	11.02	0.24	
5/8/24 13:45	4.57	10.97	0.24	
5/8/24 13:46	4.58	10.87	0.24	
5/8/24 13:47	4.65	10.84	0.24	
5/8/24 13:48	4.56	10.97	0.24	
5/8/24 13:49	4.58	10.97	0.24	
5/8/24 13:50	4.50	11.03	0.24	
5/8/24 13:51	4.45	11.03	0.24	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/8/24 13:52	4.61	10.88	0.24	
5/8/24 13:53	4.71	10.84	0.24	
5/8/24 13:54	4.58	10.97	0.24	
5/8/24 13:55	4.58	10.99	0.24	
5/8/24 13:56	4.59	10.98	0.24	
5/8/24 13:57	4.69	10.81	0.24	
5/8/24 13:58	4.79	10.74	0.25	
5/8/24 13:59	4.60	10.94	0.25	
5/8/24 14:00	4.54	11.01	0.24	
5/8/24 14:01	4.67	10.93	0.24	
5/8/24 14:02	4.56	10.93	0.24	
5/8/24 14:03	4.66	10.82	0.24	
5/8/24 14:04	4.63	10.89	0.26	
5/8/24 14:05	4.68	10.89	0.26	
5/8/24 14:06	4.65	10.90	0.25	
5/8/24 14:07	4.62	10.93	0.26	
5/8/24 14:08	4.59	10.87	0.24	
5/8/24 14:09	4.61	10.89	0.24	
5/8/24 14:10	4.48	11.03	0.24	
5/8/24 14:11	4.38	11.11	0.24	
5/8/24 14:12	4.46	11.06	0.24	
5/8/24 14:13	4.49	11.00	0.24	
5/8/24 14:14	4.66	10.84	0.24	
5/8/24 14:15	4.62	10.88	0.24	
5/8/24 14:16	4.46	11.04	0.24	
5/8/24 14:17	4.41	11.09	0.24	
5/8/24 14:18	4.54	11.02	0.24	
5/8/24 14:19	4.69	10.80	0.24	
5/8/24 14:20	4.73	10.78	0.24	
5/8/24 14:21	4.69	10.87	0.26	
5/8/24 14:22	4.61	10.95	0.25	
5/8/24 14:23	4.61	10.92	0.27	
5/8/24 14:24	4.53	10.93	0.26	
5/8/24 14:25	4.69	10.80	0.26	
5/8/24 14:26	4.69	10.85	0.26	
5/8/24 14:27	4.60	10.94	0.25	
5/8/24 14:28	4.48	11.02	0.25	
5/8/24 14:29	4.40	11.08	0.27	
5/8/24 14:30	4.56	10.88	0.26	
5/8/24 14:31	4.73	10.77	0.27	
5/8/24 14:32	4.52	10.95	0.26	
5/8/24 14:33	4.55	10.96	0.27	
5/8/24 14:34	4.49	11.01	0.26	
5/8/24 14:35	4.67	10.86	0.27	End THC 1 hr block
5/8/24 14:36	4.62	10.83	0.27	
5/8/24 14:37	4.64	10.85	0.25	
5/8/24 14:38	4.61	10.91	0.25	
5/8/24 14:39	4.64	10.90	9.05	
5/8/24 14:40	4.64	10.87	12.72	
5/8/24 14:41	4.47	10.90	12.61	
5/8/24 14:42	4.72	10.77	12.61	
5/8/24 14:43	4.68	10.84	7.91	
5/8/24 14:44	4.58	10.92	0.10	
5/8/24 14:45	4.53	10.95	0.08	
5/8/24 14:46	4.45	10.98	0.07	
5/8/24 14:47	4.70	10.78	0.07	
5/8/24 14:48	4.64	10.83	0.07	

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Date / Time	O2	CO2	THC	Notes
5/8/24 14:49	4.80	10.74	0.26	
5/8/24 14:50	4.75	10.80	0.27	
5/8/24 14:51	4.68	10.85	0.27	Start THC 1 hr block
5/8/24 14:52	4.66	10.80	0.25	
5/8/24 14:53	4.71	10.76	0.27	
5/8/24 14:54	4.69	10.80	0.27	
5/8/24 14:55	4.53	10.94	0.27	
5/8/24 14:56	4.64	10.88	0.27	
5/8/24 14:57	4.62	10.86	0.27	
5/8/24 14:58	4.66	10.77	0.27	
5/8/24 14:59	4.71	10.76	0.27	
5/8/24 15:00	4.61	10.88	0.27	
5/8/24 15:01	4.57	10.92	0.26	
5/8/24 15:02	4.51	10.96	0.26	
5/8/24 15:03	4.48	10.90	0.26	
5/8/24 15:04	4.58	10.83	0.27	
5/8/24 15:05	4.46	10.94	0.27	
5/8/24 15:06	4.51	10.93	0.27	
5/8/24 15:07	4.54	10.93	0.27	
5/8/24 15:08	4.61	10.88	0.27	
5/8/24 15:09	4.72	10.76	0.27	
5/8/24 15:10	4.60	10.84	0.27	
5/8/24 15:11	4.47	10.95	0.27	
5/8/24 15:12	4.60	10.89	0.27	
5/8/24 15:13	4.63	10.89	0.27	
5/8/24 15:14	4.64	10.79	0.30	
5/8/24 15:15	4.65	10.77	0.30	
5/8/24 15:16	4.65	10.81	0.30	
5/8/24 15:17	4.60	10.89	0.27	
5/8/24 15:18	4.55	10.93	0.27	
5/8/24 15:19	4.48	10.95	0.30	
5/8/24 15:20	4.62	10.80	0.29	
5/8/24 15:21	4.68	10.77	0.30	
5/8/24 15:22	4.69	10.79	0.30	
5/8/24 15:23	4.57	10.87	0.30	
5/8/24 15:24	4.54	10.91	0.30	
5/8/24 15:25	4.54	10.86	0.29	
5/8/24 15:26	4.61	10.82	0.30	
5/8/24 15:27	4.57	10.84	0.30	
5/8/24 15:28	4.49	10.93	0.30	
5/8/24 15:29	4.54	10.91	0.30	
5/8/24 15:30	4.49	10.92	0.30	
5/8/24 15:31	4.72	10.73	0.31	
5/8/24 15:32	4.79	10.68	0.33	
5/8/24 15:33	4.69	10.80	0.31	
5/8/24 15:34	4.58	10.90	0.32	
5/8/24 15:35	4.59	10.90	0.32	
5/8/24 15:36	4.54	10.85	0.33	
5/8/24 15:37	4.68	10.76	0.32	
5/8/24 15:38	4.69	10.77	0.33	
5/8/24 15:39	4.58	10.88	0.32	
5/8/24 15:40	4.56	10.91	0.33	
5/8/24 15:41	4.47	10.93	0.33	
5/8/24 15:42	4.63	10.75	0.32	
5/8/24 15:43	4.63	10.73	0.32	
5/8/24 15:44	4.50	10.83	0.32	
5/8/24 15:45	4.41	10.90	0.31	

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Date / Time	O2	CO2	THC	Notes
5/8/24 15:46	4.59	10.79	0.33	
5/8/24 15:47	4.55	10.71	0.33	
5/8/24 15:48	4.56	10.68	0.33	
5/8/24 15:49	4.49	10.71	0.31	
5/8/24 15:50	4.36	10.83	0.33	End THC 1 hr block
5/8/24 15:51	4.38	10.80	0.33	
5/8/24 15:52	4.42	10.77	0.33	
5/8/24 15:53	4.64	10.57	0.33	
5/8/24 15:54	4.59	10.58	0.33	
5/8/24 15:55	4.56	10.64	0.91	
5/8/24 15:56	4.66	10.62	0.39	
5/8/24 15:57	4.59	10.69	0.19	
5/8/24 15:58	4.68	10.60	0.15	
5/8/24 15:59	4.70	10.58	3.74	
5/8/24 16:00	4.50	10.72	12.50	
5/8/24 16:01	4.71	10.62	12.58	
5/8/24 16:02	4.79	10.58	12.60	
5/8/24 16:03	4.78	10.57	6.21	
5/8/24 16:04	4.77	10.52	0.33	
5/8/24 16:05	4.62	10.61	0.33	Start THC 1 hr block
5/8/24 16:06	4.66	10.62	0.33	
5/8/24 16:07	4.57	10.73	0.33	
5/8/24 16:08	4.55	10.76	0.33	
5/8/24 16:09	4.50	10.74	0.32	
5/8/24 16:10	4.75	10.57	0.33	
5/8/24 16:11	4.65	10.66	0.32	
5/8/24 16:12	4.64	10.71	0.33	
5/8/24 16:13	4.62	10.73	0.33	
5/8/24 16:14	4.61	10.73	0.33	
5/8/24 16:15	4.75	10.56	0.33	
5/8/24 16:16	4.68	10.61	0.30	
5/8/24 16:17	4.56	10.75	0.30	
5/8/24 16:18	4.47	10.84	0.32	
5/8/24 16:19	4.51	10.84	0.32	
5/8/24 16:20	4.59	10.71	0.33	
5/8/24 16:21	4.51	10.75	0.32	
5/8/24 16:22	4.58	10.72	0.32	
5/8/24 16:23	4.43	10.85	0.32	
5/8/24 16:24	4.73	10.69	0.31	
5/8/24 16:25	4.75	10.62	0.33	
5/8/24 16:26	4.54	10.68	0.31	
5/8/24 16:27	4.49	10.72	0.30	
5/8/24 16:28	4.35	10.83	0.30	
5/8/24 16:29	4.35	10.88	0.30	
5/8/24 16:30	4.37	10.87	0.30	
5/8/24 16:31	4.57	10.68	0.30	
5/8/24 16:32	4.52	10.71	0.30	
5/8/24 16:33	4.61	10.67	0.31	
5/8/24 16:34	4.55	10.74	0.30	
5/8/24 16:35	4.66	10.69	0.31	
5/8/24 16:36	4.65	10.65	0.33	
5/8/24 16:37	4.49	10.70	0.30	
5/8/24 16:38	4.66	10.62	0.32	
5/8/24 16:39	4.60	10.70	0.31	
5/8/24 16:40	4.65	10.71	0.31	
5/8/24 16:41	4.63	10.72	0.31	
5/8/24 16:42	4.53	10.72	0.30	

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Date / Time	O2	CO2	THC	Notes
5/8/24 16:43	4.79	10.55	0.31	
5/8/24 16:44	4.74	10.61	0.31	
5/8/24 16:45	4.58	10.77	0.31	
5/8/24 16:46	4.67	10.72	0.32	
5/8/24 16:47	4.67	10.69	0.30	
5/8/24 16:48	4.71	10.61	0.30	
5/8/24 16:49	4.65	10.69	0.30	
5/8/24 16:50	4.66	10.73	0.30	
5/8/24 16:51	4.72	10.73	0.30	
5/8/24 16:52	4.64	10.78	0.30	
5/8/24 16:53	4.55	10.77	0.30	
5/8/24 16:54	4.75	10.66	0.30	
5/8/24 16:55	4.52	10.82	0.30	
5/8/24 16:56	4.61	10.82	0.30	
5/8/24 16:57	4.62	10.80	0.30	
5/8/24 16:58	4.34	10.95	0.28	
5/8/24 16:59	4.62	10.75	0.27	
5/8/24 17:00	4.62	10.77	0.30	
5/8/24 17:01	4.67	10.79	0.30	
5/8/24 17:02	4.63	10.81	0.30	
5/8/24 17:03	4.53	10.89	0.29	
5/8/24 17:04	4.36	10.94	0.30	
5/8/24 17:05	4.54	10.82	0.30	
5/8/24 17:06	4.54	10.86	0.30	
5/8/24 17:07	4.53	10.89	0.30	
5/8/24 17:08	4.56	10.87	0.30	
5/8/24 17:09	4.52	10.88	0.30	
5/8/24 17:10	4.61	10.80	0.30	
5/8/24 17:11	4.50	10.90	0.29	
5/8/24 17:12	4.51	10.91	0.30	
5/8/24 17:13	4.43	10.97	0.27	
5/8/24 17:14	4.43	10.97	0.27	
5/8/24 17:15	4.45	10.89	0.27	
5/8/24 17:16	4.57	10.82	0.29	
5/8/24 17:17	4.70	10.76	0.30	
5/8/24 17:18	4.44	10.93	0.27	
5/8/24 17:19	4.48	10.91	0.30	
5/8/24 17:20	4.42	10.95	0.30	
5/8/24 17:21	4.65	10.76	0.30	
5/8/24 17:22	4.70	10.76	0.30	
5/8/24 17:23	4.73	10.76	0.30	
5/8/24 17:24	4.42	10.97	0.27	
5/8/24 17:25	4.39	11.00	0.28	
5/8/24 17:26	4.48	10.87	0.28	
5/8/24 17:27	4.64	10.78	0.30	
5/8/24 17:28	4.51	10.85	0.30	
5/8/24 17:29	4.52	10.88	0.29	
5/8/24 17:30	4.53	10.90	0.28	
5/8/24 17:31	4.49	10.91	0.29	
5/8/24 17:32	4.71	10.73	0.77	
5/8/24 17:33	4.63	10.79	12.33	
5/8/24 17:34	4.57	10.87	12.57	
5/8/24 17:35	4.64	10.83	12.56	
5/8/24 17:36	4.58	10.87	12.55	
5/8/24 17:37	4.53	10.84	9.49	
5/8/24 17:38	4.62	10.77	0.11	
5/8/24 17:39	4.54	10.83	0.08	

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Date / Time	O2	CO2	THC	Notes
5/8/24 17:40	4.36	10.99	0.07	
5/8/24 17:41	4.53	10.91	0.07	
5/8/24 17:42	4.63	10.83	0.21	
5/8/24 17:43	4.61	10.79	0.24	
5/8/24 17:44	4.58	10.81	0.24	
5/8/24 17:45	4.38	10.99	0.24	
5/8/24 17:46	4.44	10.97	0.24	
5/8/24 17:47	4.54	10.92	0.24	
5/8/24 17:48	4.68	10.77	0.22	
5/8/24 17:49	4.60	10.79	0.24	
5/8/24 17:50	4.38	10.95	0.24	
5/8/24 17:51	4.56	10.89	0.23	
5/8/24 17:52	4.50	10.96	0.23	
5/8/24 17:53	4.55	10.91	0.23	
5/8/24 17:54	4.75	10.71	0.23	
5/8/24 17:55	4.66	10.77	0.22	
5/8/24 17:56	4.49	10.91	0.23	
5/8/24 17:57	4.54	10.90	0.21	
5/8/24 17:58	4.53	10.92	0.21	
5/8/24 17:59	4.54	10.83	0.23	
5/8/24 18:00	4.64	10.74	0.22	
5/8/24 18:01	4.36	10.95	0.21	
5/8/24 18:02	4.30	11.04	0.21	
5/8/24 18:03	4.37	11.02	0.21	
5/8/24 18:04	4.60	10.86	0.21	
5/8/24 18:05	4.66	10.76	0.18	
5/8/24 18:06	4.51	10.86	0.19	
5/8/24 18:07	4.56	10.86	0.19	
5/8/24 18:08	4.30	11.05	0.17	
5/8/24 18:09	4.59	10.88	0.18	
5/8/24 18:10	4.70	10.72	0.18	
5/8/24 18:11	4.70	10.70	0.18	
5/8/24 18:12	2.59	4.21	0.17	
5/8/24 18:13	0.13	0.10	0.16	
5/8/24 18:14	0.12	0.07	0.17	
5/8/24 18:15	0.11	0.06	0.17	
5/8/24 18:16	0.11	0.05	0.17	
5/8/24 18:17	0.11	0.05	0.17	
5/8/24 18:18	0.11	0.04	0.17	
5/8/24 18:19	0.10	0.04	0.17	
5/8/24 18:20	0.10	0.04	0.15	
5/8/24 18:21	0.57	0.89	0.15	
5/8/24 18:22	10.89	10.30	0.13	
5/8/24 18:23	11.24	10.85	0.13	
5/8/24 18:24	11.26	10.89	0.13	
5/8/24 18:25	11.26	10.89	0.14	
5/8/24 18:26	11.26	10.89	0.13	
5/8/24 18:27	11.27	10.91	0.12	
5/8/24 18:28	5.33	9.52	0.33	
5/8/24 18:29	4.95	9.47	0.02	
5/8/24 18:30	4.97	9.49	0.00	
5/8/24 18:31	4.93	9.51	0.00	
5/8/24 18:32	4.97	9.45	0.00	
5/8/24 18:33	5.33	9.33	2.13	
5/8/24 18:34	5.49	9.37	12.16	
5/8/24 18:35	5.92	9.19	12.34	
5/8/24 18:36	6.21	9.09	12.38	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/8/24 18:37	6.00	9.31	12.36	
5/8/24 18:38	6.19	9.33	12.37	
5/8/24 18:39	6.31	9.40	8.56	
5/8/24 18:40	6.15	9.68	0.13	
5/9/24 7:20	9.99	0.06	0.00	
5/9/24 7:21	0.00	0.00	0.00	
5/9/24 7:22	0.00	0.00	0.00	
5/9/24 7:23	9.35	8.90	33.21	
5/9/24 7:24	22.88	22.34	13.10	
5/9/24 7:25	22.89	22.83	2.46	
5/9/24 7:26	22.82	22.32	1.77	
5/9/24 7:27	11.46	11.14	1.71	
5/9/24 7:28	11.27	11.09	1.62	
5/9/24 7:29	11.79	4.92	1.64	
5/9/24 7:30	17.13	0.01	1.48	
5/9/24 7:31	20.86	0.09	1.52	
5/9/24 7:32	20.89	0.18	1.54	
5/9/24 7:33	20.90	0.24	1.06	
5/9/24 7:34	20.84	0.27	0.06	
5/9/24 7:35	20.89	0.22	0.00	
5/9/24 7:36	20.92	0.20	0.01	
5/9/24 7:37	20.89	0.22	0.09	
5/9/24 7:38	20.90	0.22	20.09	
5/9/24 7:39	11.97	5.89	21.62	
5/9/24 7:40	4.79	10.29	21.51	
5/9/24 7:41	4.49	10.50	16.34	
5/9/24 7:42	4.32	10.66	7.41	
5/9/24 7:43	4.39	10.65	7.43	
5/9/24 7:44	4.40	10.62	7.96	
5/9/24 7:45	4.39	10.55	12.46	
5/9/24 7:46	4.38	10.59	12.53	
5/9/24 7:47	4.37	10.69	12.55	
5/9/24 7:48	3.78	7.24	7.32	
5/9/24 7:49	0.10	0.20	0.18	
5/9/24 7:50	0.09	0.17	0.14	
5/9/24 7:51	3.95	4.79	0.11	
5/9/24 7:52	11.28	11.45	0.12	
5/9/24 7:53	11.31	11.30	0.10	
5/9/24 7:54	11.31	11.31	0.10	
5/9/24 7:55	7.99	10.74	0.09	
5/9/24 7:56	4.96	9.87	0.08	
5/9/24 7:57	4.44	10.37	0.06	
5/9/24 7:58	3.70	11.03	0.04	
5/9/24 7:59	3.62	11.17	0.04	
5/9/24 8:00	3.59	11.32	0.02	
5/9/24 8:01	3.44	11.49	0.01	
5/9/24 8:02	3.56	11.54	0.01	
5/9/24 8:03	4.05	11.47	0.03	
5/9/24 8:04	4.39	11.51	0.04	
5/9/24 8:05	4.43	11.62	0.04	
5/9/24 8:06	4.33	11.73	0.04	
5/9/24 8:07	4.53	11.57	0.04	
5/9/24 8:08	4.34	11.74	0.04	
5/9/24 8:09	4.38	11.75	0.04	
5/9/24 8:10	4.33	11.80	0.04	
5/9/24 8:11	4.28	11.83	0.05	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/9/24 8:12	4.34	11.75	0.06	
5/9/24 8:13	4.34	11.73	0.07	
5/9/24 8:14	4.37	11.73	0.07	
5/9/24 8:15	4.46	11.66	0.07	Start Run 5
5/9/24 8:16	4.45	11.68	0.07	
5/9/24 8:17	4.51	11.62	0.07	
5/9/24 8:18	4.50	11.52	0.07	
5/9/24 8:19	4.63	11.42	0.07	
5/9/24 8:20	4.60	11.49	0.05	
5/9/24 8:21	4.69	11.44	0.04	
5/9/24 8:22	4.62	11.46	0.04	
5/9/24 8:23	4.63	11.40	0.04	
5/9/24 8:24	4.70	11.34	0.04	
5/9/24 8:25	4.67	11.42	0.04	
5/9/24 8:26	4.66	11.45	0.04	
5/9/24 8:27	4.69	11.43	0.04	
5/9/24 8:28	4.74	11.41	0.04	
5/9/24 8:29	4.72	11.35	0.04	
5/9/24 8:30	4.89	11.29	0.04	
5/9/24 8:31	4.77	11.39	0.04	
5/9/24 8:32	4.80	11.36	0.04	
5/9/24 8:33	4.76	11.39	0.04	
5/9/24 8:34	4.67	11.41	0.03	
5/9/24 8:35	4.77	11.30	0.03	
5/9/24 8:36	4.67	11.39	0.01	
5/9/24 8:37	4.65	11.44	0.02	
5/9/24 8:38	4.80	11.38	0.04	
5/9/24 8:39	4.86	11.35	0.04	
5/9/24 8:40	4.89	11.27	0.02	
5/9/24 8:41	5.00	11.21	0.04	
5/9/24 8:42	4.92	11.30	0.03	
5/9/24 8:43	4.95	11.31	0.03	
5/9/24 8:44	4.87	11.35	0.03	
5/9/24 8:45	4.81	11.35	0.03	
5/9/24 8:46	5.02	11.21	0.02	
5/9/24 8:47	5.08	11.20	0.03	
5/9/24 8:48	4.89	11.33	0.02	
5/9/24 8:49	4.89	11.34	0.01	
5/9/24 8:50	4.93	11.31	0.01	
5/9/24 8:51	4.90	11.28	0.01	
5/9/24 8:52	4.94	11.25	0.01	
5/9/24 8:53	4.82	11.36	0.01	
5/9/24 8:54	4.86	11.35	0.01	
5/9/24 8:55	4.96	11.29	0.01	
5/9/24 8:56	5.05	11.19	0.01	
5/9/24 8:57	5.07	11.13	0.01	
5/9/24 8:58	4.96	11.20	0.01	
5/9/24 8:59	4.88	11.27	0.01	
5/9/24 9:00	4.83	11.34	0.01	
5/9/24 9:01	4.80	11.34	0.01	
5/9/24 9:02	4.84	11.23	0.01	
5/9/24 9:03	4.95	11.21	0.01	
5/9/24 9:04	4.89	11.28	0.01	
5/9/24 9:05	4.79	11.36	0.03	
5/9/24 9:06	4.82	11.25	0.16	
5/9/24 9:07	4.89	10.98	0.27	
5/9/24 9:08	5.00	10.75	0.31	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/9/24 9:09	4.93	10.74	0.31	
5/9/24 9:10	4.78	10.82	0.32	
5/9/24 9:11	4.65	10.88	0.31	
5/9/24 9:12	4.60	10.92	0.33	
5/9/24 9:13	4.69	10.79	0.33	
5/9/24 9:14	4.82	10.69	0.34	
5/9/24 9:15	4.86	10.65	0.35	
5/9/24 9:16	4.81	10.68	0.53	
5/9/24 9:17	4.79	10.68	0.06	
5/9/24 9:18	4.78	10.64	0.00	
5/9/24 9:19	4.92	10.51	0.00	
5/9/24 9:20	4.97	10.49	1.16	
5/9/24 9:21	5.16	10.36	12.14	
5/9/24 9:22	5.19	10.34	12.34	
5/9/24 9:23	5.09	10.38	12.38	
5/9/24 9:24	5.01	10.37	7.41	
5/9/24 9:25	5.02	10.38	0.34	
5/9/24 9:26	5.11	10.35	0.34	
5/9/24 9:27	5.20	10.28	0.35	Start THC 1 hr block
5/9/24 9:28	5.13	10.33	0.36	
5/9/24 9:29	5.11	10.30	0.37	
5/9/24 9:30	5.13	10.27	0.38	
5/9/24 9:31	4.99	10.39	0.37	
5/9/24 9:32	4.94	10.44	0.37	
5/9/24 9:33	4.95	10.45	0.38	
5/9/24 9:34	5.03	10.39	0.39	
5/9/24 9:35	4.98	10.34	0.42	
5/9/24 9:36	4.89	10.42	0.43	
5/9/24 9:37	4.99	10.40	0.42	
5/9/24 9:38	5.02	10.40	0.40	
5/9/24 9:39	5.10	10.34	0.40	
5/9/24 9:40	5.12	10.27	0.42	
5/9/24 9:41	5.11	10.24	0.42	
5/9/24 9:42	4.95	10.38	0.42	
5/9/24 9:43	4.94	10.41	0.40	
5/9/24 9:44	4.83	10.46	0.40	
5/9/24 9:45	4.70	10.53	0.40	
5/9/24 9:46	4.96	10.32	0.44	
5/9/24 9:47	4.99	10.33	0.43	
5/9/24 9:48	4.91	10.44	0.43	
5/9/24 9:49	4.85	10.47	0.43	
5/9/24 9:50	4.94	10.43	0.43	
5/9/24 9:51	4.79	10.49	0.44	
5/9/24 9:52	5.04	10.29	0.44	
5/9/24 9:53	5.11	10.25	0.44	
5/9/24 9:54	4.90	10.44	0.44	
5/9/24 9:55	4.65	10.60	0.44	
5/9/24 9:56	4.71	10.55	0.43	
5/9/24 9:57	4.93	10.34	0.48	
5/9/24 9:58	5.03	10.28	0.47	
5/9/24 9:59	4.92	10.39	0.46	
5/9/24 10:00	4.94	10.40	0.44	
5/9/24 10:01	4.91	10.39	0.45	
5/9/24 10:02	4.98	10.32	0.47	
5/9/24 10:03	5.02	10.28	0.49	
5/9/24 10:04	4.94	10.39	0.48	
5/9/24 10:05	5.03	10.36	0.46	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/9/24 10:06	4.95	10.40	0.45	
5/9/24 10:07	4.84	10.46	0.45	
5/9/24 10:08	4.90	10.35	0.48	
5/9/24 10:09	4.71	10.48	0.46	
5/9/24 10:10	4.84	10.43	0.45	
5/9/24 10:11	4.87	10.44	0.45	
5/9/24 10:12	4.99	10.38	0.47	
5/9/24 10:13	4.95	10.36	0.46	
5/9/24 10:14	4.98	10.31	0.47	
5/9/24 10:15	4.91	10.37	0.45	
5/9/24 10:16	4.91	10.40	0.47	
5/9/24 10:17	4.97	10.37	0.46	
5/9/24 10:18	4.95	10.36	0.46	
5/9/24 10:19	4.79	10.37	0.47	
5/9/24 10:20	4.85	10.36	0.49	
5/9/24 10:21	4.80	10.45	0.48	
5/9/24 10:22	4.93	10.35	0.46	
5/9/24 10:23	4.95	10.34	0.45	
5/9/24 10:24	4.96	10.28	0.48	
5/9/24 10:25	4.93	10.27	0.47	
5/9/24 10:26	4.89	10.33	0.47	
5/9/24 10:27	4.94	10.31	0.46	
5/9/24 10:28	4.86	10.38	6.80	
5/9/24 10:29	4.80	10.44	12.49	
5/9/24 10:30	4.83	10.35	12.38	
5/9/24 10:31	4.94	10.30	12.38	
5/9/24 10:32	4.76	10.45	7.43	
5/9/24 10:33	4.92	10.37	0.00	
5/9/24 10:34	4.83	10.42	0.00	
5/9/24 10:35	4.91	10.30	0.11	
5/9/24 10:36	4.92	10.26	0.48	
5/9/24 10:37	4.79	10.39	0.49	
5/9/24 10:38	4.74	10.47	0.48	
5/9/24 10:39	4.78	10.44	0.49	
5/9/24 10:40	4.74	10.46	0.47	
5/9/24 10:41	5.04	10.19	0.51	Start THC 1 hr block
5/9/24 10:42	4.89	10.31	0.50	
5/9/24 10:43	4.65	10.51	0.48	
5/9/24 10:44	4.63	10.52	0.47	
5/9/24 10:45	4.56	10.56	0.48	
5/9/24 10:46	4.89	10.35	0.51	
5/9/24 10:47	5.15	10.17	0.53	
5/9/24 10:48	5.09	10.22	0.51	
5/9/24 10:49	4.92	10.35	0.50	
5/9/24 10:50	4.86	10.38	0.51	
5/9/24 10:51	4.78	10.43	0.49	
5/9/24 10:52	4.79	10.35	0.52	
5/9/24 10:53	4.88	10.29	0.51	
5/9/24 10:54	4.94	10.29	0.52	
5/9/24 10:55	4.88	10.36	0.50	
5/9/24 10:56	5.03	10.27	0.52	
5/9/24 10:57	4.89	10.29	0.52	
5/9/24 10:58	4.92	10.24	0.52	
5/9/24 10:59	4.88	10.29	0.51	
5/9/24 11:00	4.80	10.36	0.51	
5/9/24 11:01	4.57	10.50	0.50	
5/9/24 11:02	4.60	10.47	0.49	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/9/24 11:03	4.89	10.23	0.53	
5/9/24 11:04	4.91	10.24	0.53	
5/9/24 11:05	4.84	10.30	0.50	
5/9/24 11:06	4.84	10.29	0.51	
5/9/24 11:07	4.81	10.31	0.50	
5/9/24 11:08	4.71	10.32	0.53	
5/9/24 11:09	4.88	10.21	0.53	
5/9/24 11:10	4.79	10.28	0.53	
5/9/24 11:11	4.57	10.46	0.51	
5/9/24 11:12	4.52	10.52	0.50	
5/9/24 11:13	4.60	10.47	0.51	
5/9/24 11:14	4.58	10.39	0.53	
5/9/24 11:15	4.51	10.45	0.53	
5/9/24 11:16	4.53	10.50	0.52	
5/9/24 11:17	4.64	10.44	0.53	
5/9/24 11:18	4.62	10.43	0.53	
5/9/24 11:19	4.68	10.32	0.51	
5/9/24 11:20	4.67	10.32	0.54	
5/9/24 11:21	4.82	10.29	0.54	
5/9/24 11:22	4.66	10.43	0.54	
5/9/24 11:23	4.81	10.33	0.55	
5/9/24 11:24	4.60	10.46	0.52	
5/9/24 11:25	4.74	10.29	0.55	
5/9/24 11:26	4.89	10.22	0.56	
5/9/24 11:27	4.85	10.26	0.55	
5/9/24 11:28	4.74	10.34	0.52	
5/9/24 11:29	4.70	10.38	0.53	
5/9/24 11:30	4.79	10.30	0.55	
5/9/24 11:31	4.89	10.20	0.55	
5/9/24 11:32	4.82	10.27	0.54	
5/9/24 11:33	4.72	10.36	0.52	
5/9/24 11:34	4.74	10.36	0.51	
5/9/24 11:35	4.79	10.32	0.55	
5/9/24 11:36	4.80	10.23	0.57	
5/9/24 11:37	4.76	10.27	0.58	
5/9/24 11:38	4.66	10.38	0.55	
5/9/24 11:39	4.68	10.39	0.54	
5/9/24 11:40	4.69	10.37	0.54	
5/9/24 11:41	4.60	10.37	0.56	
5/9/24 11:42	4.54	10.39	0.56	
5/9/24 11:43	4.63	10.37	0.59	
5/9/24 11:44	4.65	10.38	0.17	
5/9/24 11:45	4.62	10.40	0.00	
5/9/24 11:46	4.64	10.40	0.00	
5/9/24 11:47	4.75	10.27	0.00	
5/9/24 11:48	4.92	10.18	0.00	
5/9/24 11:49	4.76	10.30	0.00	
5/9/24 11:50	4.61	10.40	0.00	
5/9/24 11:51	4.60	10.42	6.05	
5/9/24 11:52	4.61	10.38	12.30	
5/9/24 11:53	4.66	10.30	12.36	
5/9/24 11:54	4.52	10.42	7.54	
5/9/24 11:55	4.52	10.47	0.56	
5/9/24 11:56	4.51	10.50	0.55	
5/9/24 11:57	4.42	10.54	0.52	
5/9/24 11:58	4.72	10.27	0.59	
5/9/24 11:59	4.66	10.33	0.59	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/9/24 12:00	4.52	10.46	0.59	Start THC 1 hr block
5/9/24 12:01	4.41	10.53	0.56	
5/9/24 12:02	4.50	10.46	0.53	
5/9/24 12:03	4.54	10.39	0.56	
5/9/24 12:04	4.78	10.21	0.58	
5/9/24 12:05	4.75	10.28	0.60	
5/9/24 12:06	4.72	10.30	0.58	
5/9/24 12:07	4.54	10.41	0.61	
5/9/24 12:08	4.40	10.50	0.59	
5/9/24 12:09	4.69	10.25	0.59	
5/9/24 12:10	4.74	10.20	0.61	
5/9/24 12:11	4.42	10.44	0.58	
5/9/24 12:12	4.41	10.48	0.58	
5/9/24 12:13	4.47	10.45	0.59	
5/9/24 12:14	4.55	10.36	0.58	
5/9/24 12:15	4.55	10.34	0.61	
5/9/24 12:16	4.55	10.37	0.60	
5/9/24 12:17	4.51	10.44	0.57	
5/9/24 12:18	4.56	10.42	0.57	
5/9/24 12:19	4.48	10.44	0.60	
5/9/24 12:20	4.52	10.36	0.58	
5/9/24 12:21	4.51	10.41	0.58	
5/9/24 12:22	4.55	10.43	0.57	
5/9/24 12:23	4.59	10.40	0.58	
5/9/24 12:24	4.47	10.47	0.54	
5/9/24 12:25	4.55	10.38	0.59	
5/9/24 12:26	4.71	10.27	0.60	
5/9/24 12:27	4.71	10.30	0.58	
5/9/24 12:28	4.63	10.36	0.54	
5/9/24 12:29	4.55	10.44	0.53	
5/9/24 12:30	4.56	10.43	0.56	
5/9/24 12:31	4.63	10.32	0.58	
5/9/24 12:32	4.82	10.20	0.63	
5/9/24 12:33	4.69	10.32	0.59	
5/9/24 12:34	4.66	10.35	0.54	
5/9/24 12:35	4.73	10.31	0.58	
5/9/24 12:36	4.67	10.27	0.54	
5/9/24 12:37	4.68	10.24	0.62	
5/9/24 12:38	4.74	10.26	0.60	
5/9/24 12:39	4.64	10.34	0.63	
5/9/24 12:40	4.70	10.30	0.64	
5/9/24 12:41	4.63	10.33	0.64	
5/9/24 12:42	4.58	10.29	0.65	
5/9/24 12:43	4.63	10.30	0.66	
5/9/24 12:44	4.60	10.38	0.65	
5/9/24 12:45	4.50	10.44	0.65	
5/9/24 12:46	4.41	10.51	0.65	
5/9/24 12:47	4.59	10.36	0.68	
5/9/24 12:48	4.69	10.29	0.68	
5/9/24 12:49	4.70	10.30	0.67	
5/9/24 12:50	4.53	10.44	0.66	
5/9/24 12:51	4.72	10.31	0.67	
5/9/24 12:52	4.68	10.32	0.67	
5/9/24 12:53	4.73	10.20	0.69	
5/9/24 12:54	4.87	10.11	0.69	
5/9/24 12:55	4.91	10.16	0.68	
5/9/24 12:56	4.85	10.21	0.68	

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/9/24 12:57	4.83	10.23	0.68	
5/9/24 12:58	4.70	10.24	0.68	
5/9/24 12:59	4.78	10.16	0.70	
5/9/24 13:00	4.74	10.23	0.69	
5/9/24 13:01	4.70	10.28	0.69	
5/9/24 13:02	4.69	10.27	8.98	
5/9/24 13:03	4.62	10.29	12.60	
5/9/24 13:04	4.68	10.21	12.48	
5/9/24 13:05	4.67	10.23	12.45	
5/9/24 13:06	4.65	10.28	12.45	
5/9/24 13:07	4.64	10.29	12.44	
5/9/24 13:08	4.79	10.20	12.44	
5/9/24 13:09	4.80	10.13	12.43	
5/9/24 13:10	4.94	10.01	7.97	
5/9/24 13:11	5.02	9.96	0.05	
5/9/24 13:12	4.98	10.00	0.04	
5/9/24 13:13	4.60	10.23	0.01	
5/9/24 13:14	4.71	10.13	0.01	
5/9/24 13:15	4.60	10.11	0.01	
5/9/24 13:16	4.52	10.18	0.00	
5/9/24 13:17	4.49	10.25	0.00	
5/9/24 13:18	3.35	6.23	0.23	
5/9/24 13:19	0.09	0.19	0.67	
5/9/24 13:20	0.07	0.15	0.68	
5/9/24 13:21	0.07	0.14	0.71	
5/9/24 13:22	0.06	0.13	0.70	
5/9/24 13:23	4.77	5.01	0.69	
5/9/24 13:24	11.18	10.87	0.70	
5/9/24 13:25	11.21	10.91	0.71	
5/9/24 13:26	11.22	10.94	0.73	
5/9/24 13:27	5.50	10.36	0.73	
5/9/24 13:28	4.37	10.37	0.70	
5/9/24 13:29	4.40	10.37	0.71	
5/9/24 13:30	4.37	10.42	0.68	
5/9/24 13:31	4.47	10.33	0.71	
5/9/24 13:32	4.63	10.19	0.72	
5/9/24 13:33	4.59	10.23	0.71	
5/9/24 13:34	4.58	10.26	0.72	
5/9/24 13:35	4.38	10.39	0.70	
5/9/24 13:36	4.60	10.23	0.72	
5/9/24 13:37	4.56	10.19	0.71	
5/9/24 13:38	4.33	10.37	0.72	
5/9/24 13:39	4.50	10.33	0.71	
5/9/24 13:40	4.36	10.45	0.71	
5/9/24 13:41	4.37	10.43	0.73	
5/9/24 13:42	4.48	10.33	0.75	
5/9/24 13:43	4.62	10.23	0.72	
5/9/24 13:44	4.57	10.30	0.74	
5/9/24 13:45	4.61	10.28	0.74	
5/9/24 13:46	4.68	10.24	0.73	
5/9/24 13:47	4.57	10.33	0.74	
5/9/24 13:48	4.65	10.20	0.74	
5/9/24 13:49	4.77	10.14	0.75	
5/9/24 13:50	4.69	10.20	0.75	
5/9/24 13:51	4.83	10.11	0.76	
5/9/24 13:52	5.10	9.92	0.77	
5/9/24 13:53	5.26	9.72	0.80	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/9/24 13:54	5.15	9.73	0.78	
5/9/24 13:55	4.85	9.93	0.78	
5/9/24 13:56	4.58	10.13	0.77	
5/9/24 13:57	4.53	10.19	0.76	
5/9/24 13:58	4.48	10.24	0.77	
5/9/24 13:59	4.54	10.17	0.79	
5/9/24 14:00	4.32	10.35	0.79	Start Run 6
5/9/24 14:01	4.13	10.54	0.77	
5/9/24 14:02	4.18	10.50	0.79	
5/9/24 14:03	4.33	10.39	0.76	
5/9/24 14:04	4.42	10.31	0.78	
5/9/24 14:05	4.56	10.20	0.81	
5/9/24 14:06	4.72	10.10	0.80	
5/9/24 14:07	4.71	10.12	0.80	
5/9/24 14:08	4.62	10.17	0.78	
5/9/24 14:09	4.79	10.04	0.79	
5/9/24 14:10	4.77	9.99	0.79	
5/9/24 14:11	4.70	10.01	0.78	
5/9/24 14:12	4.74	10.02	0.77	
5/9/24 14:13	4.57	10.16	0.79	
5/9/24 14:14	4.35	10.30	0.77	
5/9/24 14:15	4.21	10.34	0.75	
5/9/24 14:16	4.26	10.30	0.77	
5/9/24 14:17	4.41	10.25	0.76	
5/9/24 14:18	4.41	10.31	0.77	
5/9/24 14:19	4.51	10.26	0.76	
5/9/24 14:20	4.47	10.26	0.76	
5/9/24 14:21	4.34	10.30	0.77	
5/9/24 14:22	4.38	10.30	0.77	
5/9/24 14:23	4.42	10.32	0.77	
5/9/24 14:24	4.39	10.33	0.76	
5/9/24 14:25	4.45	10.29	0.75	
5/9/24 14:26	4.32	10.34	0.76	
5/9/24 14:27	4.53	10.19	0.78	
5/9/24 14:28	4.72	10.06	0.80	
5/9/24 14:29	4.48	10.24	0.78	
5/9/24 14:30	4.70	10.15	0.80	
5/9/24 14:31	4.66	10.17	0.78	
5/9/24 14:32	4.59	10.15	0.81	
5/9/24 14:33	4.53	10.19	0.79	
5/9/24 14:34	4.44	10.28	0.79	
5/9/24 14:35	4.59	10.22	0.79	
5/9/24 14:36	4.51	10.27	0.79	
5/9/24 14:37	4.45	10.24	0.79	
5/9/24 14:38	4.71	10.05	0.80	
5/9/24 14:39	4.83	10.01	0.80	
5/9/24 14:40	4.89	9.99	0.79	
5/9/24 14:41	4.82	10.01	0.78	
5/9/24 14:42	4.65	10.10	0.78	
5/9/24 14:43	4.60	10.07	0.79	
5/9/24 14:44	4.55	10.10	0.79	
5/9/24 14:45	4.59	10.10	0.78	
5/9/24 14:46	4.63	10.06	0.78	
5/9/24 14:47	4.53	10.15	0.78	
5/9/24 14:48	4.62	10.07	0.78	
5/9/24 14:49	4.57	10.09	0.78	
5/9/24 14:50	4.46	10.17	0.77	

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/9/24 14:51	4.36	10.27	0.76	
5/9/24 14:52	4.32	10.31	0.75	
5/9/24 14:53	4.45	10.24	0.77	
5/9/24 14:54	4.42	10.18	0.78	
5/9/24 14:55	4.43	10.19	0.79	
5/9/24 14:56	4.42	10.23	0.79	
5/9/24 14:57	4.42	10.25	0.79	
5/9/24 14:58	4.41	10.26	0.78	
5/9/24 14:59	4.37	10.23	0.78	
5/9/24 15:00	4.65	10.04	0.91	
5/9/24 15:01	4.44	10.19	1.40	
5/9/24 15:02	4.61	10.11	0.91	
5/9/24 15:03	4.47	10.18	0.70	
5/9/24 15:04	4.31	10.27	0.24	
5/9/24 15:05	4.45	10.16	0.18	
5/9/24 15:06	4.47	10.16	0.15	
5/9/24 15:07	4.38	10.24	0.14	
5/9/24 15:08	4.44	10.21	0.13	
5/9/24 15:09	4.53	10.16	0.12	
5/9/24 15:10	4.49	10.15	6.76	
5/9/24 15:11	4.63	10.04	12.36	
5/9/24 15:12	4.62	10.03	12.45	
5/9/24 15:13	4.72	10.00	12.47	
5/9/24 15:14	4.68	10.06	12.47	
5/9/24 15:15	4.57	10.14	12.29	
5/9/24 15:16	4.47	10.12	0.86	
5/9/24 15:17	4.53	10.12	0.75	
5/9/24 15:18	4.47	10.19	0.73	
5/9/24 15:19	4.47	10.21	0.74	
5/9/24 15:20	4.37	10.26	0.72	
5/9/24 15:21	4.40	10.19	0.73	
5/9/24 15:22	4.49	10.12	0.73	
5/9/24 15:23	4.58	10.11	0.73	
5/9/24 15:24	4.54	10.17	0.72	
5/9/24 15:25	4.39	10.24	0.71	
5/9/24 15:26	4.36	10.25	0.72	
5/9/24 15:27	4.55	10.09	0.73	
5/9/24 15:28	4.64	10.06	0.75	
5/9/24 15:29	4.66	10.06	0.74	
5/9/24 15:30	4.47	10.20	0.74	
5/9/24 15:31	4.52	10.18	0.73	
5/9/24 15:32	4.47	10.19	0.73	
5/9/24 15:33	4.69	10.02	0.75	
5/9/24 15:34	4.59	10.09	0.75	
5/9/24 15:35	4.58	10.12	0.74	
5/9/24 15:36	4.48	10.18	0.72	
5/9/24 15:37	4.35	10.26	0.72	
5/9/24 15:38	4.33	10.18	0.73	
5/9/24 15:39	4.36	10.18	0.71	
5/9/24 15:40	4.43	10.19	0.72	
5/9/24 15:41	4.54	10.17	0.72	
5/9/24 15:42	4.50	10.18	0.71	
5/9/24 15:43	4.52	10.15	0.72	
5/9/24 15:44	4.60	10.07	0.74	
5/9/24 15:45	4.58	10.11	0.73	
5/9/24 15:46	4.58	10.11	0.72	
5/9/24 15:47	4.46	10.20	0.71	

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/9/24 15:48	4.56	10.15	0.72	
5/9/24 15:49	4.39	10.19	0.70	
5/9/24 15:50	4.30	10.26	0.70	
5/9/24 15:51	4.37	10.23	0.70	
5/9/24 15:52	4.33	10.28	0.70	
5/9/24 15:53	4.43	10.24	0.72	
5/9/24 15:54	4.64	10.08	0.72	
5/9/24 15:55	4.78	9.94	0.73	
5/9/24 15:56	4.68	10.02	0.73	
5/9/24 15:57	4.63	10.10	0.71	
5/9/24 15:58	4.57	10.17	0.71	
5/9/24 15:59	4.54	10.18	0.71	
5/9/24 16:00	4.39	10.21	0.70	
5/9/24 16:01	4.58	10.10	0.72	
5/9/24 16:02	4.53	10.16	0.71	
5/9/24 16:03	4.74	10.04	0.72	
5/9/24 16:04	4.61	10.11	0.70	
5/9/24 16:05	4.55	10.12	0.69	
5/9/24 16:06	4.63	10.06	0.70	
5/9/24 16:07	4.61	10.09	0.70	
5/9/24 16:08	4.58	10.11	0.69	
5/9/24 16:09	4.58	10.12	0.68	
5/9/24 16:10	4.47	10.20	0.68	
5/9/24 16:11	4.60	10.06	0.71	
5/9/24 16:12	4.57	10.06	0.69	
5/9/24 16:13	4.30	10.25	0.67	
5/9/24 16:14	4.52	10.15	0.67	
5/9/24 16:15	4.51	10.17	0.69	
5/9/24 16:16	4.60	10.08	0.69	
5/9/24 16:17	4.57	10.08	0.70	
5/9/24 16:18	4.66	10.02	0.70	
5/9/24 16:19	4.45	10.18	2.26	
5/9/24 16:20	4.55	10.13	12.64	
5/9/24 16:21	4.36	10.23	12.49	
5/9/24 16:22	4.41	10.16	12.47	
5/9/24 16:23	4.51	10.12	12.48	
5/9/24 16:24	4.53	10.13	12.48	
5/9/24 16:25	4.44	10.19	1.76	
5/9/24 16:26	4.33	10.25	0.12	
5/9/24 16:27	4.40	10.20	0.11	
5/9/24 16:28	4.57	10.07	0.09	
5/9/24 16:29	4.63	10.03	0.33	
5/9/24 16:30	4.42	10.17	0.68	
5/9/24 16:31	4.60	10.09	0.71	
5/9/24 16:32	4.66	10.06	0.71	
5/9/24 16:33	4.62	10.03	0.73	
5/9/24 16:34	4.51	10.10	0.71	
5/9/24 16:35	4.44	10.17	0.71	
5/9/24 16:36	4.48	10.18	0.71	
5/9/24 16:37	4.55	10.14	0.70	
5/9/24 16:38	4.51	10.12	0.71	
5/9/24 16:39	4.49	10.11	0.70	
5/9/24 16:40	4.59	10.08	0.71	
5/9/24 16:41	4.57	10.13	0.72	
5/9/24 16:42	4.57	10.12	0.71	
5/9/24 16:43	4.41	10.23	0.66	
5/9/24 16:44	4.43	10.15	0.68	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/9/24 16:45	4.61	10.06	0.69	
5/9/24 16:46	4.65	10.06	0.69	
5/9/24 16:47	4.47	10.17	0.69	
5/9/24 16:48	4.52	10.15	0.69	
5/9/24 16:49	4.54	10.13	0.69	
5/9/24 16:50	4.77	9.97	0.71	
5/9/24 16:51	4.69	10.02	0.70	
5/9/24 16:52	4.62	10.08	0.68	
5/9/24 16:53	4.54	10.15	0.68	
5/9/24 16:54	4.63	10.10	0.68	
5/9/24 16:55	4.59	10.04	0.69	
5/9/24 16:56	4.53	10.09	0.69	
5/9/24 16:57	4.54	10.12	0.68	
5/9/24 16:58	4.51	10.18	0.68	
5/9/24 16:59	4.54	10.15	0.67	
5/9/24 17:00	4.51	10.13	0.67	
5/9/24 17:01	4.68	10.00	0.70	
5/9/24 17:02	4.58	10.08	0.68	
5/9/24 17:03	4.69	10.03	0.68	
5/9/24 17:04	4.61	10.07	0.68	
5/9/24 17:05	4.44	10.18	0.66	
5/9/24 17:06	4.52	10.08	0.67	
5/9/24 17:07	4.50	10.11	0.67	
5/9/24 17:08	4.52	10.11	0.67	
5/9/24 17:09	4.48	10.16	0.68	
5/9/24 17:10	4.50	10.14	0.68	
5/9/24 17:11	4.65	10.01	0.69	
5/9/24 17:12	4.83	9.86	0.68	
5/9/24 17:13	4.76	9.89	0.69	
5/9/24 17:14	4.56	10.05	0.68	
5/9/24 17:15	4.50	10.12	0.66	
5/9/24 17:16	4.43	10.18	0.66	
5/9/24 17:17	4.42	10.12	0.67	
5/9/24 17:18	4.48	10.10	0.68	
5/9/24 17:19	4.42	10.18	0.66	
5/9/24 17:20	4.49	10.18	0.67	
5/9/24 17:21	4.36	10.25	0.67	
5/9/24 17:22	4.32	10.25	0.66	
5/9/24 17:23	4.41	10.20	0.65	
5/9/24 17:24	4.39	10.23	0.64	
5/9/24 17:25	4.47	10.20	0.65	
5/9/24 17:26	4.60	10.12	0.68	
5/9/24 17:27	4.46	10.22	0.67	
5/9/24 17:28	4.44	10.17	0.66	
5/9/24 17:29	4.54	10.13	0.67	
5/9/24 17:30	4.64	10.07	0.67	
5/9/24 17:31	4.56	10.13	0.67	
5/9/24 17:32	4.48	10.22	0.28	
5/9/24 17:33	4.53	10.17	0.09	
5/9/24 17:34	4.68	10.04	0.07	
5/9/24 17:35	4.74	10.00	2.05	
5/9/24 17:36	4.82	9.98	12.29	
5/9/24 17:37	4.60	10.12	12.38	
5/9/24 17:38	4.61	10.11	12.41	
5/9/24 17:39	4.69	9.99	5.47	
5/9/24 17:40	4.79	9.94	0.66	
5/9/24 17:41	4.68	10.03	0.63	

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Date / Time	O2	CO2	THC	Notes
5/9/24 17:42	4.50	10.18	0.65	
5/9/24 17:43	4.53	10.15	0.63	
5/9/24 17:44	4.47	10.16	0.61	
5/9/24 17:45	4.65	10.05	0.63	
5/9/24 17:46	4.58	10.11	0.63	
5/9/24 17:47	4.49	10.17	0.62	
5/9/24 17:48	4.39	10.24	0.61	
5/9/24 17:49	4.43	10.24	0.63	
5/9/24 17:50	4.56	10.13	0.67	
5/9/24 17:51	4.55	10.15	0.67	
5/9/24 17:52	4.59	10.12	0.67	
5/9/24 17:53	4.68	10.08	0.64	
5/9/24 17:54	4.57	10.17	0.65	
5/9/24 17:55	4.72	10.04	0.67	
5/9/24 17:56	4.59	10.08	0.65	
5/9/24 17:57	4.61	10.08	0.64	
5/9/24 17:58	4.56	10.16	0.62	
5/9/24 17:59	4.63	10.12	0.64	
5/9/24 18:00	4.49	10.21	0.65	
5/9/24 18:01	4.60	10.08	0.63	
5/9/24 18:02	4.58	10.12	0.65	
5/9/24 18:03	4.56	10.15	0.62	
5/9/24 18:04	4.58	10.16	0.62	
5/9/24 18:05	4.48	10.20	0.62	
5/9/24 18:06	4.66	10.08	0.62	
5/9/24 18:07	4.70	10.04	0.63	
5/9/24 18:08	4.61	10.11	0.61	
5/9/24 18:09	4.60	10.12	0.61	
5/9/24 18:10	4.50	10.17	0.60	
5/9/24 18:11	4.55	10.16	0.63	
5/9/24 18:12	4.62	10.06	0.64	
5/9/24 18:13	4.64	10.05	0.62	
5/9/24 18:14	4.52	10.12	0.60	
5/9/24 18:15	4.53	10.16	0.61	
5/9/24 18:16	4.53	10.17	0.61	
5/9/24 18:17	4.61	10.10	0.61	
5/9/24 18:18	4.70	10.01	0.62	
5/9/24 18:19	4.56	10.11	0.61	
5/9/24 18:20	4.41	10.24	0.62	
5/9/24 18:21	4.51	10.19	0.60	
5/9/24 18:22	4.42	10.22	0.59	
5/9/24 18:23	4.44	10.15	0.61	
5/9/24 18:24	4.58	10.10	0.60	
5/9/24 18:25	4.65	10.09	0.61	
5/9/24 18:26	4.62	10.11	0.61	
5/9/24 18:27	4.52	10.17	0.59	
5/9/24 18:28	4.51	10.15	0.59	
5/9/24 18:29	4.56	10.11	0.61	
5/9/24 18:30	4.58	10.10	0.59	
5/9/24 18:31	4.35	10.25	0.58	
5/9/24 18:32	4.60	10.13	0.61	
5/9/24 18:33	4.47	10.23	0.59	
5/9/24 18:34	4.56	10.11	0.61	
5/9/24 18:35	4.42	10.20	0.70	
5/9/24 18:36	4.49	10.17	0.58	
5/9/24 18:37	4.41	10.25	0.03	
5/9/24 18:38	4.52	10.20	0.00	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/9/24 18:39	4.38	10.23	0.00	
5/9/24 18:40	4.66	10.03	0.00	
5/9/24 18:41	4.64	10.08	0.00	
5/9/24 18:42	4.62	10.13	0.00	
5/9/24 18:43	4.48	10.23	3.75	
5/9/24 18:44	4.43	10.26	12.25	
5/9/24 18:45	4.58	10.10	12.32	
5/9/24 18:46	4.55	10.12	12.33	
5/9/24 18:47	4.53	10.15	11.36	
5/9/24 18:48	3.21	2.46	1.02	
5/9/24 18:49	0.05	0.11	1.12	
5/9/24 18:50	0.03	0.09	1.21	
5/9/24 18:51	0.03	0.09	1.29	
5/9/24 18:52	7.34	5.12	1.59	
5/9/24 18:53	11.16	10.79	1.38	
5/9/24 18:54	11.19	10.85	1.43	
5/9/24 18:55	11.21	10.88	1.36	
5/10/24 7:32	20.93	0.13	1.85	
5/10/24 7:33	20.93	0.13	1.44	
5/10/24 7:34	20.93	0.13	1.26	
5/10/24 7:35	20.89	0.18	1.17	
5/10/24 7:36	4.59	0.13	1.15	
5/10/24 7:37	0.00	0.03	1.11	
5/10/24 7:38	0.00	0.03	1.08	
5/10/24 7:39	9.41	8.94	0.94	
5/10/24 7:40	22.95	22.69	0.26	
5/10/24 7:41	17.22	16.83	0.29	
5/10/24 7:42	10.32	10.73	0.29	
5/10/24 7:43	4.36	10.48	1.38	
5/10/24 7:44	4.37	10.51	0.45	
5/10/24 7:45	4.44	10.47	0.02	
5/10/24 7:46	4.48	10.42	0.00	
5/10/24 7:47	4.61	10.40	3.62	
5/10/24 7:48	4.61	10.39	21.31	
5/10/24 7:49	4.67	10.39	21.44	
5/10/24 7:50	4.81	10.35	21.48	
5/10/24 7:51	4.88	10.33	16.09	
5/10/24 7:52	4.82	10.39	7.38	
5/10/24 7:53	4.81	10.47	7.38	
5/10/24 7:54	4.64	10.61	7.86	
5/10/24 7:55	4.48	10.71	12.48	
5/10/24 7:56	4.63	10.65	12.55	
5/10/24 7:57	4.21	7.46	7.03	
5/10/24 7:58	0.12	0.11	0.40	
5/10/24 7:59	0.10	0.08	0.38	
5/10/24 8:00	0.10	0.07	0.39	
5/10/24 8:01	1.55	1.95	0.37	
5/10/24 8:02	11.27	11.13	0.39	
5/10/24 8:03	11.31	11.21	0.39	
5/10/24 8:04	11.33	11.24	0.39	
5/10/24 8:05	11.34	11.27	0.39	
5/10/24 8:06	11.33	11.26	0.39	
5/10/24 8:07	11.33	11.27	0.39	
5/10/24 8:08	7.62	10.86	0.38	
5/10/24 8:09	4.65	10.55	0.35	
5/10/24 8:10	4.48	10.67	0.34	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/10/24 8:11	4.46	10.66	0.32	
5/10/24 8:12	4.46	10.63	0.32	
5/10/24 8:13	4.42	10.58	0.31	
5/10/24 8:14	4.38	10.60	0.30	
5/10/24 8:15	4.44	10.59	0.30	Start Run 7
5/10/24 8:16	4.57	10.47	0.30	
5/10/24 8:17	4.45	10.51	0.30	
5/10/24 8:18	4.57	10.42	0.30	
5/10/24 8:19	4.55	10.43	0.30	
5/10/24 8:20	4.67	10.37	0.30	
5/10/24 8:21	4.61	10.40	0.29	
5/10/24 8:22	4.56	10.44	0.30	
5/10/24 8:23	4.64	10.37	0.30	
5/10/24 8:24	4.65	10.32	0.29	
5/10/24 8:25	4.81	10.20	0.30	
5/10/24 8:26	4.65	10.27	0.31	
5/10/24 8:27	4.48	10.37	0.31	
5/10/24 8:28	4.72	10.21	0.31	
5/10/24 8:29	4.73	10.19	0.31	
5/10/24 8:30	4.63	10.22	0.30	
5/10/24 8:31	4.62	10.22	0.30	
5/10/24 8:32	4.58	10.28	0.29	
5/10/24 8:33	4.62	10.27	0.29	
5/10/24 8:34	4.49	10.40	0.27	
5/10/24 8:35	4.47	10.35	0.27	
5/10/24 8:36	4.49	10.35	0.27	
5/10/24 8:37	4.65	10.32	0.27	
5/10/24 8:38	4.61	10.42	0.26	
5/10/24 8:39	4.74	10.42	0.26	
5/10/24 8:40	4.68	10.48	0.25	
5/10/24 8:41	4.91	10.36	0.26	
5/10/24 8:42	4.75	10.51	0.25	
5/10/24 8:43	4.79	10.57	0.24	
5/10/24 8:44	4.65	10.68	0.24	
5/10/24 8:45	4.81	10.59	0.25	
5/10/24 8:46	4.78	10.63	0.25	
5/10/24 8:47	4.91	10.66	0.25	
5/10/24 8:48	5.09	10.61	0.26	
5/10/24 8:49	4.82	10.80	0.24	
5/10/24 8:50	4.90	10.75	0.24	
5/10/24 8:51	4.88	10.77	0.22	
5/10/24 8:52	4.74	10.84	0.19	
5/10/24 8:53	4.69	10.91	0.17	
5/10/24 8:54	4.43	11.09	0.15	
5/10/24 8:55	4.26	11.23	0.13	
5/10/24 8:56	4.37	11.19	0.11	
5/10/24 8:57	4.27	11.26	0.10	
5/10/24 8:58	4.51	11.20	0.09	
5/10/24 8:59	4.51	11.16	0.07	
5/10/24 9:00	4.34	11.28	0.04	
5/10/24 9:01	4.44	11.23	0.02	
5/10/24 9:02	4.40	11.14	0.01	
5/10/24 9:03	4.50	11.03	0.01	
5/10/24 9:04	4.46	11.08	0.01	
5/10/24 9:05	4.26	11.19	0.00	
5/10/24 9:06	4.17	11.22	0.00	
5/10/24 9:07	4.27	11.19	0.00	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/10/24 9:08	4.24	11.17	0.00	
5/10/24 9:09	4.25	11.12	0.00	
5/10/24 9:10	4.37	11.07	0.00	
5/10/24 9:11	4.23	11.10	0.00	
5/10/24 9:12	4.46	11.00	0.00	
5/10/24 9:13	4.19	11.12	0.00	
5/10/24 9:14	4.43	10.90	0.00	
5/10/24 9:15	4.26	11.07	0.37	
5/10/24 9:16	4.23	11.06	0.07	
5/10/24 9:17	4.17	11.17	0.00	
5/10/24 9:18	4.16	11.16	0.00	
5/10/24 9:19	4.26	11.05	2.36	
5/10/24 9:20	4.41	10.95	12.07	
5/10/24 9:21	4.45	10.99	12.22	
5/10/24 9:22	4.50	10.90	12.25	
5/10/24 9:23	4.62	10.90	4.86	
5/10/24 9:24	4.67	10.79	0.00	
5/10/24 9:25	4.72	10.76	0.00	
5/10/24 9:26	4.69	10.80	0.00	
5/10/24 9:27	4.66	10.84	0.00	
5/10/24 9:28	4.66	10.86	0.00	
5/10/24 9:29	4.64	10.86	0.00	
5/10/24 9:30	4.56	10.83	0.00	
5/10/24 9:31	4.67	10.77	0.00	
5/10/24 9:32	4.61	10.79	0.00	
5/10/24 9:33	4.67	10.78	0.00	
5/10/24 9:34	4.58	10.85	0.00	
5/10/24 9:35	4.69	10.72	0.00	
5/10/24 9:36	4.69	10.75	0.00	
5/10/24 9:37	4.77	10.68	0.00	
5/10/24 9:38	4.73	10.77	0.00	
5/10/24 9:39	4.68	10.75	0.00	
5/10/24 9:40	4.67	10.83	0.00	
5/10/24 9:41	4.64	10.71	0.00	
5/10/24 9:42	4.58	10.83	0.00	
5/10/24 9:43	4.63	10.78	0.00	
5/10/24 9:44	4.59	10.85	0.00	
5/10/24 9:45	4.65	10.84	0.00	
5/10/24 9:46	4.87	10.76	0.00	
5/10/24 9:47	5.05	10.58	0.00	
5/10/24 9:48	5.09	10.62	0.00	
5/10/24 9:49	5.07	10.75	0.00	
5/10/24 9:50	5.05	10.69	0.00	
5/10/24 9:51	5.17	10.71	0.00	
5/10/24 9:52	5.04	10.72	0.00	
5/10/24 9:53	5.01	10.83	0.00	
5/10/24 9:54	5.02	10.85	0.00	
5/10/24 9:55	4.92	10.93	0.00	
5/10/24 9:56	4.92	11.05	0.00	
5/10/24 9:57	4.85	11.04	0.00	
5/10/24 9:58	5.02	10.94	0.00	
5/10/24 9:59	4.89	11.09	0.00	
5/10/24 10:00	4.89	11.09	0.00	
5/10/24 10:01	4.76	11.14	0.00	
5/10/24 10:02	4.81	11.15	0.00	
5/10/24 10:03	4.77	11.06	0.00	
5/10/24 10:04	4.94	10.92	0.00	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/10/24 10:05	4.66	11.20	0.00	
5/10/24 10:06	4.61	11.13	0.00	
5/10/24 10:07	4.72	11.16	0.00	
5/10/24 10:08	4.57	11.11	0.00	
5/10/24 10:09	4.64	11.02	0.00	
5/10/24 10:10	4.53	11.14	0.00	
5/10/24 10:11	4.37	11.16	0.00	
5/10/24 10:12	4.19	11.33	0.00	
5/10/24 10:13	4.40	11.20	0.00	
5/10/24 10:14	4.44	11.08	0.00	
5/10/24 10:15	4.61	11.00	0.00	
5/10/24 10:16	4.59	11.01	0.00	
5/10/24 10:17	4.25	11.25	0.00	
5/10/24 10:18	4.44	11.13	0.00	
5/10/24 10:19	4.35	11.09	0.00	
5/10/24 10:20	4.26	11.16	0.00	
5/10/24 10:21	4.17	11.20	0.00	
5/10/24 10:22	4.38	11.07	0.00	
5/10/24 10:23	4.41	11.12	0.00	
5/10/24 10:24	4.40	11.11	0.00	
5/10/24 10:25	4.56	11.01	0.00	
5/10/24 10:26	4.55	11.05	0.52	
5/10/24 10:27	4.72	10.95	11.14	
5/10/24 10:28	4.83	10.95	12.45	
5/10/24 10:29	5.03	10.85	12.39	
5/10/24 10:30	5.02	10.81	12.37	
5/10/24 10:31	5.08	10.82	12.38	
5/10/24 10:32	5.09	10.87	12.37	
5/10/24 10:33	5.04	11.02	3.63	
5/10/24 10:34	5.05	11.09	0.00	
5/10/24 10:35	5.03	11.09	0.00	
5/10/24 10:36	5.10	11.14	0.03	
5/10/24 10:37	4.95	11.21	0.10	
5/10/24 10:38	4.92	11.19	0.10	
5/10/24 10:39	4.85	11.30	0.10	
5/10/24 10:40	4.89	11.24	0.10	
5/10/24 10:41	4.79	11.29	0.10	
5/10/24 10:42	4.82	11.36	0.10	
5/10/24 10:43	5.03	11.02	0.10	
5/10/24 10:44	4.93	11.16	0.10	
5/10/24 10:45	4.82	11.20	0.11	
5/10/24 10:46	4.74	11.14	0.11	
5/10/24 10:47	4.58	11.33	0.10	
5/10/24 10:48	4.57	11.13	0.10	
5/10/24 10:49	4.55	11.17	0.10	
5/10/24 10:50	4.54	11.21	0.10	
5/10/24 10:51	4.79	11.00	0.10	
5/10/24 10:52	4.70	11.03	0.10	
5/10/24 10:53	4.60	11.10	0.10	
5/10/24 10:54	4.63	10.95	0.10	
5/10/24 10:55	4.48	11.08	0.10	
5/10/24 10:56	4.64	11.02	0.10	
5/10/24 10:57	4.54	11.08	0.10	
5/10/24 10:58	4.49	11.02	0.10	
5/10/24 10:59	4.56	11.06	0.12	
5/10/24 11:00	4.58	11.07	0.11	
5/10/24 11:01	4.70	11.04	0.11	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/10/24 11:02	4.70	11.09	0.12	
5/10/24 11:03	4.66	11.13	0.13	
5/10/24 11:04	4.96	11.07	0.12	
5/10/24 11:05	4.77	11.08	0.12	
5/10/24 11:06	4.73	11.26	0.13	
5/10/24 11:07	4.69	11.32	0.12	
5/10/24 11:08	4.73	11.23	0.12	
5/10/24 11:09	4.85	11.12	0.12	
5/10/24 11:10	4.92	11.23	0.13	
5/10/24 11:11	4.87	11.12	0.12	
5/10/24 11:12	4.74	11.28	0.11	
5/10/24 11:13	5.12	10.91	0.13	
5/10/24 11:14	5.05	10.95	0.13	
5/10/24 11:15	4.87	10.93	0.13	
5/10/24 11:16	4.77	10.96	0.13	
5/10/24 11:17	4.49	11.14	0.12	
5/10/24 11:18	4.50	11.09	0.11	
5/10/24 11:19	4.46	11.16	0.12	
5/10/24 11:20	4.52	11.02	0.13	
5/10/24 11:21	4.55	10.98	0.13	
5/10/24 11:22	4.54	11.00	0.11	
5/10/24 11:23	4.61	10.95	0.12	
5/10/24 11:24	4.59	10.94	0.13	
5/10/24 11:25	4.63	10.92	0.13	
5/10/24 11:26	4.66	10.83	0.13	
5/10/24 11:27	4.50	10.98	0.13	
5/10/24 11:28	4.62	10.91	0.13	
5/10/24 11:29	4.60	10.99	0.14	
5/10/24 11:30	4.62	11.04	0.14	
5/10/24 11:31	4.62	10.92	0.15	
5/10/24 11:32	4.70	10.95	0.15	
5/10/24 11:33	4.67	11.08	0.15	
5/10/24 11:34	4.75	11.05	0.15	
5/10/24 11:35	4.80	11.04	0.15	
5/10/24 11:36	4.67	11.18	0.15	
5/10/24 11:37	4.84	10.98	0.15	
5/10/24 11:38	4.78	11.14	0.32	
5/10/24 11:39	4.74	11.21	1.01	
5/10/24 11:40	4.79	11.17	0.16	
5/10/24 11:41	4.77	11.21	0.08	
5/10/24 11:42	4.73	11.23	0.04	
5/10/24 11:43	4.76	11.08	0.03	
5/10/24 11:44	4.79	11.10	9.65	
5/10/24 11:45	4.74	11.16	12.52	
5/10/24 11:46	4.73	11.00	12.55	
5/10/24 11:47	4.73	11.10	6.19	
5/10/24 11:48	4.79	10.91	0.13	
5/10/24 11:49	4.73	11.01	0.13	
5/10/24 11:50	4.61	11.05	0.13	
5/10/24 11:51	4.65	10.99	0.15	
5/10/24 11:52	4.60	11.01	0.14	
5/10/24 11:53	4.69	10.86	0.15	
5/10/24 11:54	4.70	10.82	0.14	
5/10/24 11:55	4.58	11.00	0.13	
5/10/24 11:56	4.54	10.90	0.15	
5/10/24 11:57	4.54	10.98	0.15	
5/10/24 11:58	4.58	11.02	0.15	

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No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/10/24 11:59	4.66	10.82	0.15	
5/10/24 12:00	4.68	10.87	0.15	
5/10/24 12:01	4.71	10.95	0.15	
5/10/24 12:02	4.63	10.91	0.15	
5/10/24 12:03	4.66	11.00	0.14	
5/10/24 12:04	4.72	10.97	0.15	
5/10/24 12:05	4.67	10.92	0.14	
5/10/24 12:06	4.74	11.06	0.15	
5/10/24 12:07	4.86	10.93	0.15	
5/10/24 12:08	4.76	11.14	0.15	
5/10/24 12:09	4.67	11.06	0.16	
5/10/24 12:10	4.86	11.00	0.16	
5/10/24 12:11	4.82	11.06	0.16	
5/10/24 12:12	4.80	11.09	0.15	
5/10/24 12:13	4.84	11.05	0.15	
5/10/24 12:14	4.78	11.14	0.15	
5/10/24 12:15	4.89	11.03	0.16	
5/10/24 12:16	4.71	11.12	0.15	
5/10/24 12:17	4.68	11.26	0.16	
5/10/24 12:18	4.79	11.03	0.17	
5/10/24 12:19	4.57	11.24	0.16	
5/10/24 12:20	4.54	11.13	0.15	
5/10/24 12:21	4.57	11.14	0.15	
5/10/24 12:22	4.66	10.97	0.15	
5/10/24 12:23	4.63	11.08	0.15	
5/10/24 12:24	4.51	11.02	0.17	
5/10/24 12:25	4.54	11.08	0.17	
5/10/24 12:26	4.62	11.06	0.18	
5/10/24 12:27	4.71	10.89	0.17	
5/10/24 12:28	4.53	11.05	0.17	
5/10/24 12:29	4.66	10.96	0.19	
5/10/24 12:30	4.54	11.09	0.19	
5/10/24 12:31	4.62	10.99	0.19	
5/10/24 12:32	4.77	10.87	0.19	
5/10/24 12:33	4.60	11.06	0.19	
5/10/24 12:34	4.64	11.13	0.19	
5/10/24 12:35	4.65	11.14	0.19	
5/10/24 12:36	4.70	11.10	0.19	
5/10/24 12:37	4.84	11.08	0.19	
5/10/24 12:38	4.88	11.03	0.19	
5/10/24 12:39	4.94	11.06	0.20	
5/10/24 12:40	4.85	11.13	0.19	
5/10/24 12:41	4.74	11.27	0.19	
5/10/24 12:42	4.58	11.28	0.19	
5/10/24 12:43	4.83	11.23	0.19	
5/10/24 12:44	2.63	4.48	0.19	
5/10/24 12:45	0.11	0.12	0.22	
5/10/24 12:46	0.10	0.09	0.21	
5/10/24 12:47	0.10	0.08	0.21	
5/10/24 12:48	0.10	0.07	0.22	
5/10/24 12:49	2.70	3.00	0.24	
5/10/24 12:50	11.22	10.91	0.24	
5/10/24 12:51	11.26	10.98	0.22	
5/10/24 12:52	11.27	11.00	0.22	
5/10/24 12:53	11.27	11.02	0.24	
5/10/24 12:54	11.09	11.03	1.12	
5/10/24 12:55	4.57	11.09	1.53	

BASF - Geismar, LA
No. 3 Boiler CSV Data

Date / Time	O2	CO2	THC	Notes
5/10/24 12:56	4.56	11.04	0.26	
5/10/24 12:57	4.62	10.94	0.11	
5/10/24 12:58	4.40	11.10	0.07	
5/10/24 12:59	4.43	10.99	0.06	
5/10/24 13:00	4.42	11.02	0.04	
5/10/24 13:01	4.60	10.88	0.04	
5/10/24 13:02	4.61	10.92	0.03	
5/10/24 13:03	4.68	10.94	0.37	
5/10/24 13:04	4.91	10.85	12.21	
5/10/24 13:05	5.01	10.79	12.53	
5/10/24 13:06	4.95	10.92	12.57	
5/10/24 13:07	4.94	10.97	12.61	
5/10/24 13:08	4.84	11.05	12.63	
5/10/24 13:09	4.91	11.05	12.64	
5/10/24 13:10	4.85	11.05	6.44	

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/6/2024	2:27:43 PM	190.6	0.992	-0.08	0.01	0.00	0.06
5/6/2024	2:28:46 PM	190.6	0.992	-0.11	0.01	0.00	0.07
5/6/2024	2:29:49 PM	190.6	0.992	0.01	0.01	0.00	0.02
5/6/2024	2:30:52 PM	190.6	0.992	-0.07	0.01	0.00	-0.08
5/6/2024	2:31:54 PM	190.6	0.992	-0.07	0.01	0.00	-0.04
5/6/2024	2:32:57 PM	190.6	0.992	-0.13	0.01	0.00	-0.03
5/6/2024	2:34:00 PM	190.6	0.992	0.01	0.01	0.00	0.08
5/6/2024	2:35:03 PM	190.6	0.992	-0.07	0.01	0.00	0.03
5/6/2024	2:37:19 PM	190.6	0.992	0.00	0.00	0.00	0.00
5/6/2024	2:38:28 PM	190.6	0.992	0.10	0.00	0.00	0.05
5/6/2024	2:39:31 PM	190.6	0.992	0.08	0.00	0.00	0.04
5/6/2024	2:40:34 PM	190.6	1.000	-0.02	0.04	-0.04	25.18
5/6/2024	2:41:37 PM	190.6	1.001	0.03	0.01	-0.03	97.51
5/6/2024	2:42:39 PM	190.6	1.001	0.01	0.01	-0.02	97.96
5/6/2024	2:43:42 PM	190.6	1.000	0.04	0.01	-0.02	97.73
5/6/2024	2:44:45 PM	190.6	1.000	-0.03	0.00	-0.03	97.53
5/6/2024	2:45:48 PM	190.6	1.000	0.03	0.00	-0.03	97.58
5/6/2024	2:46:51 PM	190.6	0.994	0.06	0.01	-0.03	17.96
5/6/2024	2:47:54 PM	190.6	0.993	0.04	0.00	0.00	0.07
5/6/2024	2:48:57 PM	190.6	0.993	0.05	0.00	-0.01	0.05
5/6/2024	2:49:59 PM	190.6	0.993	0.03	0.00	0.00	0.04
5/6/2024	2:51:02 PM	190.6	0.993	0.04	0.00	0.00	0.04
5/6/2024	2:52:05 PM	190.6	0.993	0.07	0.00	0.00	0.08
5/6/2024	2:53:08 PM	190.6	0.993	0.10	0.00	0.00	0.11
5/6/2024	2:54:11 PM	190.5	0.993	0.07	0.00	0.00	0.06
5/6/2024	2:55:13 PM	190.6	0.993	7.50	0.05	3.21	4.90
5/6/2024	2:56:16 PM	190.6	0.994	83.15	0.04	10.09	-1.00
5/6/2024	2:57:19 PM	190.5	0.993	95.78	0.03	10.09	-0.90
5/6/2024	2:58:22 PM	190.6	0.993	106.14	0.02	10.09	-0.80
5/6/2024	2:59:25 PM	190.6	0.993	113.49	0.02	10.12	-0.90
5/6/2024	3:00:28 PM	190.6	1.000	128.97	0.02	10.13	-0.85
5/6/2024	3:01:31 PM	190.6	1.001	137.18	0.02	10.12	-0.85
5/6/2024	3:02:33 PM	190.6	1.001	139.42	0.01	10.11	-0.82
5/6/2024	3:03:36 PM	190.6	1.002	141.68	0.01	10.10	-0.80
5/6/2024	3:04:39 PM	190.6	1.002	143.45	0.01	10.10	-0.76
5/6/2024	3:05:42 PM	190.6	1.002	145.06	0.01	10.10	-0.73
5/6/2024	3:06:45 PM	190.6	1.002	146.31	0.01	10.10	-0.78
5/6/2024	3:07:47 PM	190.6	1.002	147.49	0.01	10.10	-0.73
5/6/2024	3:08:51 PM	190.6	1.002	148.34	0.01	10.10	-0.82
5/6/2024	3:09:53 PM	190.6	1.005	149.81	0.01	10.10	-0.62
5/6/2024	3:10:56 PM	190.6	1.012	152.40	0.01	10.15	-0.66
5/6/2024	3:11:59 PM	190.6	1.012	153.34	0.00	10.15	-0.56
5/6/2024	3:13:02 PM	190.7	1.013	154.05	0.00	10.16	-0.59
5/6/2024	3:14:04 PM	190.7	1.013	154.57	0.01	10.17	-0.62
5/6/2024	3:15:07 PM	190.7	1.013	155.31	0.00	10.17	-0.58
5/6/2024	3:16:10 PM	190.7	1.013	155.68	0.01	10.18	-0.58
5/6/2024	3:17:13 PM	190.7	1.013	156.09	0.01	10.18	-0.65
5/6/2024	3:19:30 PM	190.7	1.013	157.07	0.01	10.21	-0.64
5/6/2024	3:20:33 PM	190.7	1.013	157.41	0.00	10.20	-0.59
5/6/2024	3:23:02 PM	190.7	1.013	157.94	0.01	10.20	-0.57
5/6/2024	3:24:04 PM	190.7	1.014	158.22	0.00	10.20	-0.64
5/6/2024	3:25:07 PM	190.7	1.014	158.18	0.01	10.18	-0.50
5/6/2024	3:26:10 PM	190.7	1.014	158.62	0.00	10.19	-0.60
5/6/2024	3:27:13 PM	190.7	1.014	158.74	0.00	10.20	-0.61
5/6/2024	3:28:16 PM	190.7	1.013	159.00	0.01	10.21	-0.72
5/6/2024	3:29:19 PM	190.7	1.014	159.15	0.00	10.19	-0.60

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/6/2024	3:30:22 PM	190.7	1.014	159.41	0.00	10.21	-0.68
5/6/2024	3:31:24 PM	190.7	1.014	159.25	0.00	10.20	-0.46
5/6/2024	3:32:27 PM	190.7	1.013	159.49	0.00	10.20	-0.46
5/6/2024	3:33:30 PM	190.7	1.013	159.52	0.00	10.20	-0.54
5/6/2024	3:34:33 PM	190.8	1.013	159.70	0.00	10.20	-0.59
5/6/2024	3:35:36 PM	190.7	1.013	159.86	0.01	10.19	-0.66
5/6/2024	3:36:38 PM	190.7	1.013	159.92	0.00	10.20	-0.63
5/6/2024	3:37:41 PM	190.7	1.013	160.01	0.01	10.19	-0.59
5/6/2024	3:38:44 PM	190.7	1.013	160.03	0.00	10.19	-0.66
5/6/2024	3:39:47 PM	190.7	1.013	160.33	0.00	10.20	-0.62
5/6/2024	3:40:50 PM	190.7	1.013	160.29	0.01	10.20	-0.52
5/6/2024	3:41:53 PM	190.7	0.999	72.73	0.02	3.45	4.37
5/6/2024	3:42:56 PM	190.6	0.992	1.45	0.01	0.02	0.10
5/6/2024	3:43:58 PM	190.6	0.992	0.69	0.01	0.00	0.12
5/6/2024	3:45:01 PM	190.7	0.992	0.38	0.01	0.00	0.09
5/6/2024	3:46:04 PM	190.7	0.992	0.29	0.01	0.00	0.11
5/6/2024	3:47:07 PM	190.6	0.987	0.78	0.00	0.00	0.11
5/6/2024	3:48:10 PM	190.6	1.004	3.10	2.47	-0.03	0.17
5/6/2024	3:49:12 PM	190.6	1.009	2.68	8.21	-0.05	0.20
5/6/2024	3:50:15 PM	190.7	1.015	3.41	15.82	-0.05	-0.23
5/6/2024	3:51:18 PM	190.7	1.019	2.57	21.09	-0.04	-0.05
5/6/2024	3:52:21 PM	190.7	1.020	2.40	20.98	-0.05	-0.05
5/6/2024	3:53:24 PM	190.7	1.018	2.32	20.84	-0.04	-0.04
5/6/2024	3:54:27 PM	190.8	1.020	2.42	20.35	-0.05	-0.10
5/6/2024	3:55:30 PM	190.8	1.020	2.33	21.83	-0.04	-0.05
5/6/2024	3:57:57 PM	190.8	1.032	2.28	20.45	-0.05	-0.04
5/6/2024	3:59:00 PM	190.9	1.047	2.55	14.35	-0.03	-0.11
5/6/2024	4:00:02 PM	190.9	1.048	2.38	13.03	-0.03	-0.01
5/6/2024	4:01:05 PM	190.9	1.048	2.13	13.94	-0.03	-0.07
5/6/2024	4:02:08 PM	190.9	1.004	1.59	6.30	0.00	0.03
5/6/2024	4:03:11 PM	190.8	1.002	0.78	1.73	0.00	0.06
5/6/2024	4:04:14 PM	190.7	1.002	0.32	0.87	0.00	0.12
5/6/2024	4:05:17 PM	190.7	1.001	0.12	0.51	0.00	0.14
5/6/2024	4:06:20 PM	190.7	1.001	0.19	0.45	0.00	0.08
5/6/2024	4:09:24 PM	190.6	1.001	0.00	0.00	0.00	0.00
5/6/2024	4:10:33 PM	190.6	1.001	-0.12	-0.10	0.00	0.00
5/6/2024	4:11:36 PM	190.6	1.001	-0.07	-0.11	0.00	0.05
5/6/2024	4:12:39 PM	190.6	0.986	0.00	-0.10	0.00	0.08
5/6/2024	4:13:42 PM	190.6	0.985	0.03	-0.09	0.00	0.07
5/6/2024	4:14:44 PM	190.6	0.985	0.06	-0.07	0.00	-0.01
5/6/2024	4:15:47 PM	190.6	0.984	0.00	-0.06	0.00	0.01
5/6/2024	4:16:50 PM	190.6	0.995	1.08	2.00	-0.02	0.06
5/6/2024	4:17:53 PM	190.6	1.012	1.32	10.03	-0.05	-0.20
5/6/2024	4:18:55 PM	190.7	1.021	2.23	19.11	-0.04	-0.19
5/6/2024	4:19:58 PM	190.9	1.019	2.21	18.54	-0.04	-0.15
5/6/2024	4:21:01 PM	190.9	1.020	2.09	21.94	-0.05	-0.16
5/6/2024	4:22:04 PM	190.9	1.020	2.20	20.14	-0.05	-0.06
5/6/2024	4:23:07 PM	190.9	1.018	2.20	19.46	-0.04	-0.15
5/6/2024	4:24:10 PM	190.9	1.018	2.29	21.39	-0.04	-0.06
5/6/2024	4:25:13 PM	190.9	1.020	2.17	21.79	-0.06	-0.16
5/6/2024	4:26:15 PM	190.9	1.019	2.28	21.73	-0.05	-0.04
5/6/2024	4:27:18 PM	190.9	1.018	2.10	19.94	-0.05	0.01
5/6/2024	4:28:21 PM	190.9	1.020	2.08	20.33	-0.05	-0.11
5/6/2024	4:29:24 PM	190.9	1.019	2.22	20.19	-0.04	-0.08
5/6/2024	4:30:27 PM	190.8	1.018	2.11	18.63	-0.04	-0.07
5/6/2024	4:31:30 PM	190.8	1.019	2.07	19.87	-0.05	-0.10

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/6/2024	4:32:32 PM	190.9	1.030	14.17	19.57	0.82	-0.05
5/6/2024	4:33:35 PM	190.9	1.028	28.26	15.36	2.01	-0.32
5/6/2024	4:34:38 PM	190.9	1.027	20.15	16.80	1.37	-0.31
5/6/2024	4:35:41 PM	190.9	1.025	20.52	17.55	1.40	-0.32
5/6/2024	4:36:44 PM	190.9	1.028	23.26	19.81	1.65	-0.24
5/6/2024	4:37:47 PM	190.9	1.029	28.06	17.89	1.92	-0.28
5/6/2024	4:38:49 PM	190.9	1.030	28.78	17.68	1.92	-0.36
5/6/2024	4:39:52 PM	190.9	1.031	29.05	17.20	1.93	-0.32
5/6/2024	4:40:55 PM	190.9	1.034	27.76	16.18	1.82	-0.26
5/6/2024	4:41:58 PM	190.9	1.036	28.50	17.52	1.81	-0.33
5/6/2024	4:43:01 PM	190.9	1.035	27.70	17.33	1.79	-0.28
5/6/2024	4:44:04 PM	190.9	1.036	27.57	17.41	1.78	-0.22
5/6/2024	4:45:06 PM	190.9	1.035	28.34	15.93	1.82	-0.23
5/6/2024	4:46:09 PM	190.9	1.035	27.73	17.24	1.73	-0.24
5/6/2024	4:47:12 PM	190.9	1.035	26.11	16.64	1.65	-0.27
5/6/2024	4:48:15 PM	190.8	1.035	25.61	18.84	1.63	-0.30
5/6/2024	4:49:18 PM	190.9	1.034	24.31	18.10	1.51	-0.20
5/6/2024	4:50:21 PM	190.9	1.033	23.75	16.62	1.48	-0.26
5/6/2024	4:51:23 PM	190.9	1.033	24.18	16.59	1.47	-0.38
5/6/2024	4:52:27 PM	190.9	1.033	23.28	18.18	1.45	-0.24
5/6/2024	4:53:29 PM	190.9	1.033	22.40	17.90	1.40	-0.25
5/6/2024	4:54:32 PM	190.9	1.031	22.73	17.16	1.42	-0.32
5/6/2024	4:55:35 PM	190.9	1.033	21.81	20.03	1.37	-0.30
5/6/2024	4:56:38 PM	190.9	1.032	22.48	17.29	1.39	-0.24
5/6/2024	4:57:40 PM	190.9	1.032	22.59	17.11	1.40	-0.21
5/6/2024	4:58:43 PM	190.9	1.033	22.16	17.58	1.37	-0.33
5/6/2024	4:59:46 PM	190.9	1.033	22.29	17.45	1.37	-0.28
5/6/2024	5:00:49 PM	190.9	1.032	21.47	17.80	1.32	-0.22
5/6/2024	5:01:52 PM	190.8	1.033	20.85	18.29	1.26	-0.30
5/6/2024	5:02:55 PM	190.9	1.031	22.00	16.32	1.31	-0.32
5/6/2024	5:03:58 PM	190.9	1.032	21.61	17.83	1.28	-0.31
5/6/2024	5:05:00 PM	190.9	1.032	20.98	17.51	1.28	-0.34
5/6/2024	5:06:03 PM	190.8	1.031	20.95	17.60	1.28	-0.22
5/6/2024	5:07:06 PM	190.9	1.031	21.05	17.80	1.28	-0.21
5/6/2024	5:08:09 PM	190.9	1.031	20.47	18.30	1.24	-0.16
5/6/2024	5:09:12 PM	190.9	1.032	20.44	17.83	1.24	-0.24
5/6/2024	5:10:14 PM	190.9	1.030	17.32	18.25	1.02	-0.10
5/6/2024	5:11:17 PM	190.9	1.030	16.62	18.54	0.98	-0.08
5/6/2024	5:12:20 PM	190.9	1.031	16.70	18.61	1.00	-0.22
5/6/2024	5:13:23 PM	190.9	1.030	17.10	17.66	1.01	-0.14
5/6/2024	5:14:26 PM	190.9	1.031	16.88	18.29	1.00	-0.23
5/6/2024	5:15:29 PM	190.9	1.030	16.93	18.15	1.00	-0.10
5/6/2024	5:16:32 PM	190.9	1.030	16.69	18.88	0.99	-0.20
5/6/2024	5:17:34 PM	190.9	1.031	16.54	19.43	0.99	-0.22
5/6/2024	5:18:37 PM	190.9	1.031	17.67	16.90	1.01	-0.26
5/6/2024	5:19:40 PM	190.9	1.033	10.20	18.03	0.49	-0.03
5/6/2024	5:20:43 PM	190.9	1.054	1.95	13.78	-0.03	-0.13
5/6/2024	5:21:46 PM	190.9	1.054	1.95	12.60	-0.03	-0.06
5/6/2024	5:22:49 PM	191.0	1.056	1.85	12.36	-0.03	-0.10
5/6/2024	5:23:51 PM	191.0	1.055	1.83	11.91	-0.04	-0.09
5/6/2024	5:24:54 PM	191.0	1.055	1.89	12.76	-0.03	-0.13
5/6/2024	5:25:57 PM	191.0	1.056	1.91	12.65	-0.03	-0.10
5/6/2024	5:27:00 PM	191.0	1.012	1.46	5.86	0.00	-0.02
5/6/2024	5:28:03 PM	190.8	1.002	0.56	1.37	0.00	-0.03
5/6/2024	5:29:06 PM	190.8	1.001	0.12	0.31	0.00	0.10
5/6/2024	5:30:09 PM	190.7	1.001	-0.05	-0.03	0.00	0.09

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/6/2024	5:31:12 PM	190.7	1.001	-0.01	-0.06	0.00	0.10
5/6/2024	5:34:01 PM	190.7	1.001	0.00	0.00	0.00	0.00
5/6/2024	5:35:09 PM	190.7	1.001	0.06	-0.02	0.00	0.01
5/6/2024	5:36:12 PM	190.7	0.999	0.78	0.01	0.00	15.14
5/6/2024	5:37:15 PM	190.7	0.999	0.20	-0.03	-0.02	97.52
5/6/2024	5:38:18 PM	190.7	0.998	0.04	-0.04	-0.03	97.78
5/6/2024	5:39:21 PM	190.7	0.998	0.05	-0.04	-0.03	98.03
5/6/2024	5:40:24 PM	190.7	0.998	0.10	-0.05	-0.03	97.96
5/6/2024	5:41:26 PM	190.7	0.998	0.04	-0.05	-0.02	97.91
5/6/2024	5:42:29 PM	190.6	0.994	0.02	-0.04	-0.05	50.95
5/7/2024	7:32:39 AM	190.5	0.996	11.13	2.01	NaN	NaN
5/7/2024	7:33:42 AM	190.5	0.997	0.15	-0.07	-0.01	0.01
5/7/2024	7:34:45 AM	190.5	0.997	0.05	-0.08	0.00	-0.14
5/7/2024	7:35:48 AM	190.5	0.997	0.02	-0.08	0.00	-0.12
5/7/2024	7:39:11 AM	190.4	0.997	0.06	-0.08	0.00	-0.22
5/7/2024	7:40:13 AM	190.4	0.997	0.12	-0.08	0.00	-0.25
5/7/2024	7:41:16 AM	190.4	0.997	0.06	-0.09	0.00	-0.15
5/7/2024	7:43:40 AM	190.4	0.997	0.00	0.00	0.00	0.00
5/7/2024	7:44:48 AM	190.4	0.997	-0.04	0.00	0.00	0.02
5/7/2024	7:45:51 AM	190.4	0.997	-0.04	0.00	0.00	-0.02
5/7/2024	7:46:54 AM	190.5	1.001	0.17	0.05	-0.06	68.28
5/7/2024	7:47:57 AM	190.5	1.002	0.06	0.00	-0.03	97.51
5/7/2024	7:49:00 AM	190.5	1.001	-0.06	0.01	-0.03	97.36
5/7/2024	7:50:02 AM	190.5	1.001	-0.08	0.00	-0.03	97.37
5/7/2024	7:51:05 AM	190.5	1.001	-0.03	0.00	-0.04	97.25
5/7/2024	7:52:08 AM	190.5	1.001	-0.05	0.00	-0.03	97.31
5/7/2024	7:53:11 AM	190.5	0.997	0.01	0.01	-0.04	24.32
5/7/2024	7:54:14 AM	190.5	0.997	-0.04	0.01	0.00	0.01
5/7/2024	7:55:17 AM	190.5	0.997	0.00	0.00	0.00	0.00
5/7/2024	7:56:20 AM	190.5	0.997	-0.06	0.00	0.00	0.00
5/7/2024	7:57:22 AM	190.5	0.997	-0.02	0.00	0.00	0.05
5/7/2024	7:58:25 AM	190.5	0.997	-0.04	0.00	0.00	0.04
5/7/2024	7:59:28 AM	190.5	0.997	-0.03	0.00	0.00	0.00
5/7/2024	8:00:31 AM	190.4	0.997	-0.05	0.00	0.00	0.06
5/7/2024	8:01:34 AM	190.5	0.997	0.02	0.00	0.00	-0.04
5/7/2024	8:02:37 AM	190.4	0.997	-0.07	0.00	0.00	-0.03
5/7/2024	8:03:39 AM	190.4	0.997	-0.06	0.00	0.00	-0.04
5/7/2024	8:04:42 AM	190.4	0.997	-0.07	0.00	0.00	-0.10
5/7/2024	8:05:45 AM	190.4	1.009	0.42	0.62	0.00	-0.22
5/7/2024	8:06:48 AM	190.6	1.028	0.99	3.79	0.00	-0.24
5/7/2024	8:07:51 AM	190.6	1.027	0.97	3.63	0.00	-0.10
5/7/2024	8:08:54 AM	190.6	1.027	1.01	3.39	0.00	-0.14
5/7/2024	8:09:57 AM	190.6	1.027	0.95	3.25	0.00	-0.20
5/7/2024	8:10:59 AM	190.6	1.027	0.94	3.14	0.00	-0.07
5/7/2024	8:12:02 AM	190.7	1.027	0.94	3.03	0.00	-0.19
5/7/2024	8:13:05 AM	190.6	1.027	0.85	3.07	0.00	-0.04
5/7/2024	8:14:08 AM	190.6	1.020	1.61	7.15	-0.04	0.06
5/7/2024	8:15:11 AM	190.6	1.018	1.28	10.99	-0.04	-0.05
5/7/2024	8:16:13 AM	190.7	1.026	2.00	21.03	-0.04	-0.23
5/7/2024	8:17:16 AM	190.8	1.026	1.92	21.51	-0.04	-0.18
5/7/2024	8:18:19 AM	190.8	1.025	2.02	20.14	-0.04	-0.13
5/7/2024	8:19:22 AM	190.8	1.025	1.99	20.78	-0.04	-0.14
5/7/2024	8:20:25 AM	190.7	1.026	2.02	21.57	-0.04	-0.12
5/7/2024	8:21:28 AM	190.7	1.025	2.10	19.49	-0.04	-0.18
5/7/2024	8:22:31 AM	190.8	1.026	2.03	21.99	-0.04	-0.17

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/7/2024	8:23:33 AM	190.8	1.025	1.99	18.62	-0.04	-0.16
5/7/2024	8:24:36 AM	190.8	1.026	2.07	21.17	-0.04	-0.15
5/7/2024	8:25:39 AM	190.8	1.026	1.96	19.48	-0.04	-0.03
5/7/2024	8:26:42 AM	190.8	1.026	1.99	20.61	-0.04	-0.12
5/7/2024	8:27:45 AM	190.8	1.027	2.03	21.66	-0.05	0.02
5/7/2024	8:28:47 AM	190.8	1.025	2.07	19.46	-0.03	-0.07
5/7/2024	8:29:50 AM	190.9	1.027	1.99	20.93	-0.05	-0.16
5/7/2024	8:30:53 AM	190.8	1.026	2.10	19.72	-0.04	-0.12
5/7/2024	8:31:56 AM	190.8	1.026	2.03	19.79	-0.04	-0.10
5/7/2024	8:32:59 AM	190.8	1.026	1.96	20.77	-0.04	-0.08
5/7/2024	8:34:02 AM	190.8	1.026	2.04	20.80	-0.04	-0.17
5/7/2024	8:35:04 AM	190.8	1.025	1.98	19.71	-0.04	-0.08
5/7/2024	8:36:07 AM	190.8	1.027	2.03	20.73	-0.04	-0.08
5/7/2024	8:37:10 AM	190.8	1.026	1.95	20.29	-0.04	-0.18
5/7/2024	8:38:13 AM	190.9	1.028	1.92	20.85	-0.04	-0.21
5/7/2024	8:39:16 AM	190.9	1.027	2.03	19.79	-0.04	-0.17
5/7/2024	8:40:19 AM	190.9	1.025	2.16	18.69	-0.04	-0.03
5/7/2024	8:41:21 AM	190.9	1.027	1.98	19.56	-0.03	-0.20
5/7/2024	8:42:25 AM	191.0	1.027	2.05	20.67	-0.04	-0.25
5/7/2024	8:43:27 AM	190.8	1.026	1.99	20.25	-0.04	-0.17
5/7/2024	8:44:30 AM	190.9	1.027	2.12	21.37	-0.04	-0.06
5/7/2024	8:45:33 AM	190.9	1.026	2.02	18.78	-0.04	-0.08
5/7/2024	8:46:36 AM	190.8	1.027	1.94	20.40	-0.04	-0.13
5/7/2024	8:47:38 AM	190.9	1.026	2.05	19.65	-0.04	-0.09
5/7/2024	8:48:41 AM	190.9	1.027	1.99	21.09	-0.04	-0.09
5/7/2024	8:49:44 AM	190.9	1.027	2.00	21.50	-0.04	-0.05
5/7/2024	8:50:47 AM	190.8	1.026	2.00	19.65	-0.04	-0.08
5/7/2024	8:51:50 AM	190.9	1.026	1.96	19.72	-0.04	-0.02
5/7/2024	8:52:53 AM	190.8	1.027	1.93	20.22	-0.04	-0.08
5/7/2024	8:53:56 AM	190.8	1.026	1.98	20.64	-0.04	-0.05
5/7/2024	8:54:58 AM	190.9	1.027	2.03	21.49	-0.04	-0.17
5/7/2024	8:56:01 AM	190.9	1.026	1.95	21.42	-0.04	-0.11
5/7/2024	8:57:04 AM	190.8	1.027	1.88	21.61	-0.04	-0.23
5/7/2024	8:58:07 AM	190.9	1.026	1.97	19.33	-0.04	-0.09
5/7/2024	8:59:10 AM	190.9	1.027	2.02	19.97	-0.04	-0.07
5/7/2024	9:00:12 AM	190.9	1.028	2.02	21.13	-0.04	-0.09
5/7/2024	9:01:15 AM	190.9	1.027	1.94	20.36	-0.04	-0.13
5/7/2024	9:02:19 AM	190.8	1.027	2.02	19.38	-0.04	-0.17
5/7/2024	9:03:21 AM	190.9	1.027	1.90	19.43	-0.04	-0.07
5/7/2024	9:04:24 AM	190.8	1.026	1.80	20.35	-0.03	-0.11
5/7/2024	9:05:27 AM	190.8	1.027	1.94	21.11	-0.04	-0.10
5/7/2024	9:06:30 AM	190.9	1.027	1.98	20.68	-0.04	-0.16
5/7/2024	9:07:32 AM	190.8	1.027	1.96	19.98	-0.04	-0.09
5/7/2024	9:08:35 AM	190.8	1.026	1.86	22.10	-0.04	-0.07
5/7/2024	9:09:38 AM	190.8	1.027	1.97	20.56	-0.04	-0.12
5/7/2024	9:10:41 AM	190.9	1.027	1.91	21.14	-0.03	-0.20
5/7/2024	9:11:44 AM	190.9	1.026	1.91	20.53	-0.04	-0.10
5/7/2024	9:12:47 AM	190.8	1.027	1.87	21.38	-0.04	-0.06
5/7/2024	9:13:49 AM	190.8	1.027	1.93	19.75	-0.04	-0.12
5/7/2024	9:14:52 AM	190.8	1.026	1.92	19.43	-0.04	-0.02
5/7/2024	9:15:55 AM	190.8	1.028	1.89	20.91	-0.04	-0.11
5/7/2024	9:16:58 AM	190.8	1.027	1.93	20.40	-0.04	-0.11
5/7/2024	9:18:01 AM	190.8	1.027	1.92	20.66	-0.04	-0.16
5/7/2024	9:19:04 AM	190.8	1.026	1.95	20.20	-0.03	-0.11
5/7/2024	9:20:06 AM	190.8	1.027	1.91	21.62	-0.04	-0.20
5/7/2024	9:21:09 AM	190.8	1.025	1.96	24.09	-0.04	-0.13

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/7/2024	9:22:12 AM	190.9	1.028	1.89	22.21	-0.04	-0.07
5/7/2024	9:23:15 AM	190.9	1.027	1.94	20.25	-0.03	-0.09
5/7/2024	9:24:18 AM	190.8	1.027	1.90	20.87	-0.04	-0.14
5/7/2024	9:25:21 AM	190.8	1.027	1.95	20.90	-0.04	-0.08
5/7/2024	9:26:24 AM	190.8	1.026	1.92	19.26	-0.03	-0.11
5/7/2024	9:27:26 AM	190.8	1.027	1.88	20.50	-0.04	-0.11
5/7/2024	9:28:29 AM	190.8	1.027	1.88	20.25	-0.04	-0.11
5/7/2024	9:29:32 AM	190.8	1.026	1.86	21.77	-0.03	-0.13
5/7/2024	9:30:35 AM	190.8	1.027	1.92	20.69	-0.04	-0.10
5/7/2024	9:31:38 AM	190.8	1.027	1.89	20.00	-0.04	-0.03
5/7/2024	9:32:41 AM	190.8	1.027	1.91	21.15	-0.04	-0.09
5/7/2024	9:33:43 AM	190.8	1.027	2.06	20.65	-0.04	-0.10
5/7/2024	9:34:46 AM	190.8	1.027	1.97	20.70	-0.04	-0.08
5/7/2024	9:35:49 AM	190.8	1.027	1.85	20.62	-0.04	-0.10
5/7/2024	9:36:52 AM	190.9	1.027	2.07	19.48	-0.04	-0.06
5/7/2024	9:37:55 AM	190.8	1.027	2.02	20.11	-0.04	-0.11
5/7/2024	9:38:58 AM	190.9	1.026	1.96	19.88	-0.04	-0.13
5/7/2024	9:40:01 AM	190.9	1.026	1.91	20.70	-0.04	-0.10
5/7/2024	9:41:03 AM	190.9	1.027	1.93	21.50	-0.04	-0.12
5/7/2024	9:42:06 AM	190.9	1.026	1.91	20.11	-0.03	-0.23
5/7/2024	9:43:09 AM	190.8	1.027	1.95	20.79	-0.04	-0.12
5/7/2024	9:44:12 AM	190.8	1.027	1.84	20.55	-0.04	-0.10
5/7/2024	9:45:14 AM	190.8	1.026	2.01	20.91	-0.04	-0.20
5/7/2024	9:46:17 AM	190.9	1.027	1.90	21.13	-0.04	-0.10
5/7/2024	9:47:20 AM	190.9	1.025	1.94	22.69	-0.04	-0.05
5/7/2024	9:48:23 AM	190.9	1.028	1.85	21.65	-0.04	-0.12
5/7/2024	9:49:26 AM	190.9	1.027	2.02	20.73	-0.04	-0.13
5/7/2024	9:50:29 AM	190.9	1.027	2.10	20.44	-0.04	-0.05
5/7/2024	9:51:31 AM	190.9	1.027	1.87	20.41	-0.03	-0.16
5/7/2024	9:52:34 AM	190.9	1.027	1.94	21.09	-0.04	-0.05
5/7/2024	9:53:37 AM	190.9	1.027	1.95	19.78	-0.04	-0.04
5/7/2024	9:54:40 AM	190.9	1.027	1.88	21.63	-0.04	-0.05
5/7/2024	9:55:43 AM	190.9	1.026	1.95	19.98	-0.03	-0.14
5/7/2024	9:56:46 AM	190.9	1.034	1.76	18.06	-0.01	-0.33
5/7/2024	9:57:49 AM	190.9	1.033	1.40	6.23	0.01	-0.02
5/7/2024	9:58:52 AM	191.0	1.029	0.82	2.42	0.00	-0.07
5/7/2024	9:59:54 AM	190.9	1.027	0.74	2.45	-0.01	-0.07
5/7/2024	10:00:57 AM	190.8	1.027	0.28	0.83	0.00	-0.02
5/7/2024	10:02:00 AM	190.8	1.027	-0.01	0.21	0.00	0.03
5/7/2024	10:03:03 AM	190.8	1.027	-0.08	0.12	0.00	-0.01
5/7/2024	10:04:06 AM	190.8	1.027	-0.04	0.07	0.00	-0.02
5/7/2024	10:05:08 AM	190.8	1.027	-0.03	0.05	0.00	-0.02
5/7/2024	10:06:12 AM	190.8	1.027	0.06	0.03	0.00	-0.02
5/7/2024	10:07:14 AM	190.9	1.024	0.98	2.75	-0.03	0.09
5/7/2024	10:08:17 AM	190.8	1.019	1.21	11.85	-0.04	-0.03
5/7/2024	10:09:20 AM	190.8	1.024	1.94	17.51	-0.04	-0.16
5/7/2024	10:10:23 AM	190.9	1.026	2.04	21.16	-0.04	-0.08
5/7/2024	10:11:26 AM	190.9	1.027	2.01	19.79	-0.04	-0.13
5/7/2024	10:12:29 AM	190.8	1.026	1.95	19.50	-0.04	-0.05
5/7/2024	10:13:31 AM	190.8	1.026	2.08	19.66	-0.04	-0.03
5/7/2024	10:14:34 AM	190.8	1.026	2.01	18.57	-0.04	-0.01
5/7/2024	10:15:37 AM	190.8	1.027	1.94	20.03	-0.04	-0.02
5/7/2024	10:16:40 AM	190.9	1.027	1.95	20.15	-0.05	-0.05
5/7/2024	10:17:42 AM	190.8	1.027	1.85	19.22	-0.04	-0.03
5/7/2024	10:18:45 AM	190.9	1.026	1.97	18.81	-0.04	-0.03
5/7/2024	10:19:48 AM	190.8	1.028	1.88	19.87	-0.04	-0.03

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/7/2024	10:20:51 AM	190.9	1.026	1.94	19.92	-0.05	0.04
5/7/2024	10:21:54 AM	190.9	1.027	1.95	20.06	-0.05	-0.05
5/7/2024	10:22:57 AM	190.9	1.026	1.91	18.45	-0.05	-0.02
5/7/2024	10:24:00 AM	190.9	1.026	1.96	19.97	-0.04	0.00
5/7/2024	10:25:02 AM	190.9	1.026	1.91	20.68	-0.05	-0.05
5/7/2024	10:26:05 AM	190.9	1.026	1.89	19.98	-0.05	0.03
5/7/2024	10:27:08 AM	190.9	1.027	1.83	22.53	-0.05	-0.06
5/7/2024	10:28:11 AM	190.9	1.027	2.04	20.61	-0.05	0.00
5/7/2024	10:29:14 AM	191.0	1.026	1.88	21.16	-0.05	-0.04
5/7/2024	10:30:17 AM	191.0	1.026	1.95	20.66	-0.05	0.00
5/7/2024	10:31:19 AM	190.9	1.026	2.00	20.33	-0.05	-0.08
5/7/2024	10:32:22 AM	191.0	1.027	1.90	21.48	-0.05	-0.05
5/7/2024	10:33:25 AM	190.9	1.026	1.91	19.63	-0.04	0.06
5/7/2024	10:34:28 AM	190.9	1.026	1.91	20.92	-0.05	-0.01
5/7/2024	10:35:31 AM	191.0	1.027	1.96	21.19	-0.05	0.01
5/7/2024	10:36:34 AM	190.9	1.026	1.87	21.99	-0.05	-0.05
5/7/2024	10:37:36 AM	191.0	1.025	1.89	21.28	-0.05	-0.07
5/7/2024	10:38:39 AM	191.0	1.026	1.86	21.36	-0.05	-0.04
5/7/2024	10:39:42 AM	191.0	1.026	1.95	20.95	-0.05	0.04
5/7/2024	10:40:45 AM	191.0	1.026	1.85	21.69	-0.05	-0.01
5/7/2024	10:41:48 AM	191.0	1.027	1.83	21.81	-0.04	0.02
5/7/2024	10:42:50 AM	191.0	1.026	1.92	20.79	-0.04	-0.09
5/7/2024	10:43:54 AM	191.0	1.025	1.96	20.61	-0.05	-0.05
5/7/2024	10:44:56 AM	191.1	1.027	1.85	22.26	-0.04	-0.06
5/7/2024	10:45:59 AM	191.1	1.026	1.85	21.53	-0.05	-0.17
5/7/2024	10:47:02 AM	191.0	1.026	1.89	21.39	-0.05	0.03
5/7/2024	10:48:05 AM	191.0	1.026	1.83	23.13	-0.05	-0.02
5/7/2024	10:49:07 AM	191.1	1.026	1.87	21.21	-0.05	0.03
5/7/2024	10:50:10 AM	191.1	1.027	1.90	21.56	-0.04	-0.06
5/7/2024	10:51:13 AM	191.1	1.026	1.85	21.04	-0.05	0.01
5/7/2024	10:52:16 AM	191.0	1.026	1.88	20.81	-0.05	-0.09
5/7/2024	10:53:19 AM	191.1	1.027	1.94	21.58	-0.04	-0.01
5/7/2024	10:54:22 AM	191.0	1.025	1.94	19.41	-0.05	-0.03
5/7/2024	10:55:25 AM	191.0	1.026	1.94	21.64	-0.05	-0.08
5/7/2024	10:56:27 AM	191.0	1.027	1.78	21.67	-0.05	0.05
5/7/2024	10:57:30 AM	191.0	1.026	1.82	20.71	-0.04	-0.02
5/7/2024	10:58:33 AM	191.0	1.025	1.91	20.78	-0.05	0.06
5/7/2024	10:59:36 AM	191.0	1.026	2.00	21.29	-0.05	0.01
5/7/2024	11:00:39 AM	191.0	1.027	1.93	21.25	-0.05	-0.05
5/7/2024	11:01:42 AM	191.0	1.026	1.91	19.56	-0.05	0.01
5/7/2024	11:02:45 AM	191.1	1.027	1.83	21.94	-0.05	0.05
5/7/2024	11:03:47 AM	191.0	1.026	1.86	20.44	-0.05	0.05
5/7/2024	11:04:50 AM	191.0	1.027	1.92	20.71	-0.05	0.03
5/7/2024	11:05:53 AM	191.0	1.026	1.90	20.02	-0.05	-0.02
5/7/2024	11:06:56 AM	191.0	1.027	1.93	20.47	-0.05	0.01
5/7/2024	11:07:59 AM	191.0	1.025	1.92	21.37	-0.05	0.03
5/7/2024	11:09:01 AM	191.1	1.027	1.88	21.16	-0.05	-0.08
5/7/2024	11:10:04 AM	191.0	1.025	1.84	24.46	-0.05	-0.01
5/7/2024	11:11:07 AM	191.1	1.026	1.88	22.13	-0.05	-0.03
5/7/2024	11:12:10 AM	191.0	1.035	2.40	15.37	0.01	-0.47
5/7/2024	11:13:13 AM	191.0	1.032	1.24	5.20	0.01	-0.10
5/7/2024	11:14:16 AM	191.0	1.028	0.61	1.60	0.00	-0.08
5/7/2024	11:15:18 AM	190.9	1.027	0.38	1.17	0.00	0.04
5/7/2024	11:16:21 AM	190.9	1.027	0.16	0.64	0.00	0.07
5/7/2024	11:17:24 AM	190.9	1.027	0.10	0.53	0.00	0.01
5/7/2024	11:18:27 AM	190.8	1.027	0.01	0.42	0.00	0.07

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/7/2024	11:19:30 AM	190.8	1.020	1.72	8.42	-0.05	0.14
5/7/2024	11:20:33 AM	190.8	1.019	2.35	14.62	-0.04	0.13
5/7/2024	11:21:36 AM	190.9	1.025	2.03	22.29	-0.04	-0.14
5/7/2024	11:22:38 AM	191.0	1.026	1.92	21.83	-0.04	-0.04
5/7/2024	11:23:41 AM	190.9	1.026	1.93	21.61	-0.05	0.00
5/7/2024	11:24:44 AM	190.9	1.025	1.86	21.19	-0.04	-0.03
5/7/2024	11:25:47 AM	190.9	1.026	1.91	21.90	-0.05	0.01
5/7/2024	11:26:50 AM	190.9	1.025	1.93	20.63	-0.05	-0.05
5/7/2024	11:27:52 AM	190.9	1.026	1.91	21.90	-0.04	-0.08
5/7/2024	11:28:55 AM	190.9	1.025	1.92	21.31	-0.05	-0.06
5/7/2024	11:29:58 AM	190.9	1.025	1.87	21.13	-0.04	-0.05
5/7/2024	11:31:01 AM	190.9	1.026	1.94	22.43	-0.05	0.02
5/7/2024	11:32:04 AM	190.9	1.025	1.92	20.64	-0.04	0.00
5/7/2024	11:33:07 AM	190.9	1.025	1.86	21.92	-0.04	-0.05
5/7/2024	11:34:10 AM	190.9	1.026	1.98	21.77	-0.04	0.05
5/7/2024	11:35:12 AM	190.9	1.025	2.00	21.15	-0.04	-0.12
5/7/2024	11:36:15 AM	190.9	1.025	1.99	20.14	-0.05	0.00
5/7/2024	11:37:18 AM	190.9	1.025	1.89	20.43	-0.05	-0.03
5/7/2024	11:38:21 AM	191.0	1.026	1.92	20.95	-0.04	-0.04
5/7/2024	11:39:24 AM	191.0	1.025	1.93	20.81	-0.04	-0.09
5/7/2024	11:40:27 AM	190.9	1.025	1.90	20.90	-0.04	-0.02
5/7/2024	11:41:30 AM	191.0	1.026	1.81	21.49	-0.04	0.00
5/7/2024	11:42:32 AM	191.0	1.025	1.85	19.87	-0.04	0.02
5/7/2024	11:43:35 AM	191.0	1.025	1.86	20.69	-0.04	-0.02
5/7/2024	11:44:38 AM	190.9	1.025	1.90	19.89	-0.04	-0.04
5/7/2024	11:45:41 AM	191.0	1.025	1.89	21.58	-0.04	-0.10
5/7/2024	11:46:43 AM	191.0	1.025	1.88	21.73	-0.04	-0.12
5/7/2024	11:47:46 AM	191.0	1.025	1.86	21.67	-0.05	0.04
5/7/2024	11:48:49 AM	191.0	1.025	1.94	20.58	-0.04	-0.05
5/7/2024	11:49:52 AM	191.0	1.025	1.87	20.66	-0.05	-0.01
5/7/2024	11:50:55 AM	191.0	1.026	1.86	21.61	-0.04	-0.05
5/7/2024	11:51:58 AM	191.0	1.025	1.90	21.04	-0.04	-0.07
5/7/2024	11:53:00 AM	191.0	1.026	1.90	20.98	-0.04	-0.01
5/7/2024	11:54:04 AM	191.0	1.025	1.95	20.63	-0.05	0.02
5/7/2024	11:55:06 AM	191.0	1.025	1.90	19.76	-0.03	-0.11
5/7/2024	11:56:09 AM	190.9	1.025	1.91	20.72	-0.04	-0.14
5/7/2024	11:57:12 AM	190.9	1.025	1.95	21.20	-0.04	-0.07
5/7/2024	11:58:15 AM	190.9	1.025	1.93	21.04	-0.04	-0.01
5/7/2024	11:59:17 AM	190.9	1.025	1.93	20.59	-0.04	-0.06
5/7/2024	12:00:20 PM	191.0	1.025	1.85	20.28	-0.04	-0.03
5/7/2024	12:01:23 PM	191.0	1.025	1.88	20.93	-0.05	-0.02
5/7/2024	12:02:26 PM	191.0	1.025	1.93	20.66	-0.04	-0.07
5/7/2024	12:03:29 PM	191.0	1.026	1.91	20.89	-0.04	-0.04
5/7/2024	12:04:32 PM	191.0	1.025	1.84	20.59	-0.04	-0.09
5/7/2024	12:05:34 PM	191.0	1.025	1.92	20.15	-0.04	-0.06
5/7/2024	12:06:37 PM	190.9	1.025	1.90	21.10	-0.04	-0.07
5/7/2024	12:07:40 PM	190.9	1.024	1.88	19.43	-0.04	-0.03
5/7/2024	12:08:43 PM	190.9	1.025	1.84	20.46	-0.03	-0.04
5/7/2024	12:09:46 PM	191.0	1.023	1.86	23.13	-0.04	-0.09
5/7/2024	12:10:49 PM	191.0	1.026	1.80	22.23	-0.04	-0.01
5/7/2024	12:11:51 PM	191.0	1.025	1.86	20.58	-0.05	-0.14
5/7/2024	12:12:54 PM	191.0	1.024	1.87	20.60	-0.04	-0.05
5/7/2024	12:13:57 PM	191.0	1.024	1.86	21.18	-0.04	0.01
5/7/2024	12:15:00 PM	191.0	1.025	1.88	21.31	-0.04	-0.11
5/7/2024	12:16:03 PM	191.0	1.025	1.82	20.87	-0.04	-0.06
5/7/2024	12:17:06 PM	191.0	1.025	1.93	20.89	-0.04	0.00

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/7/2024	12:18:09 PM	190.9	1.025	1.84	20.03	-0.04	-0.04
5/7/2024	12:19:11 PM	190.9	1.025	1.90	20.79	-0.04	0.04
5/7/2024	12:20:14 PM	190.9	1.025	1.99	21.05	-0.04	0.01
5/7/2024	12:21:17 PM	191.0	1.025	1.81	21.00	-0.04	-0.05
5/7/2024	12:22:20 PM	191.0	1.029	1.86	21.22	-0.02	-0.29
5/7/2024	12:23:23 PM	191.0	1.034	1.79	8.52	0.00	-0.23
5/7/2024	12:24:26 PM	190.9	1.027	0.76	2.36	0.00	-0.04
5/7/2024	12:25:29 PM	190.8	1.026	0.32	0.80	0.00	-0.01
5/7/2024	12:26:31 PM	190.8	1.025	1.05	3.25	-0.02	0.01
5/7/2024	12:27:34 PM	190.8	1.025	0.19	0.87	0.00	0.05
5/7/2024	12:28:37 PM	190.8	1.025	0.03	0.32	0.00	-0.02
5/7/2024	12:29:40 PM	190.8	1.025	-0.04	0.20	0.00	0.02
5/7/2024	12:30:43 PM	190.8	1.025	0.04	0.16	0.00	0.07
5/7/2024	12:31:45 PM	190.8	1.018	1.71	8.96	-0.05	0.04
5/7/2024	12:32:48 PM	190.8	1.019	2.39	15.51	-0.04	-0.03
5/7/2024	12:33:51 PM	190.9	1.024	1.86	20.04	-0.04	-0.10
5/7/2024	12:34:54 PM	191.0	1.024	1.94	21.31	-0.04	-0.12
5/7/2024	12:35:57 PM	190.9	1.025	1.95	20.81	-0.04	0.03
5/7/2024	12:37:00 PM	190.9	1.024	1.85	20.53	-0.04	-0.02
5/7/2024	12:38:02 PM	190.9	1.024	1.94	20.58	-0.04	-0.03
5/7/2024	12:39:06 PM	190.9	1.024	1.95	18.86	-0.04	-0.08
5/7/2024	12:40:08 PM	190.8	1.024	1.98	19.85	-0.04	-0.13
5/7/2024	12:41:11 PM	190.9	1.024	1.84	21.34	-0.04	-0.04
5/7/2024	12:42:14 PM	190.9	1.024	2.02	19.85	-0.04	-0.10
5/7/2024	12:43:17 PM	190.9	1.024	1.94	20.86	-0.04	-0.08
5/7/2024	12:44:20 PM	190.9	1.024	1.89	20.40	-0.04	-0.01
5/7/2024	12:45:23 PM	190.9	1.024	1.94	20.13	-0.05	-0.04
5/7/2024	12:46:25 PM	190.9	1.024	1.85	20.84	-0.04	-0.07
5/7/2024	12:47:28 PM	191.0	1.025	1.93	20.89	-0.04	-0.08
5/7/2024	12:48:31 PM	191.0	1.024	1.89	20.35	-0.04	-0.01
5/7/2024	12:49:34 PM	191.0	1.024	1.89	20.08	-0.04	0.00
5/7/2024	12:50:36 PM	190.9	1.024	2.02	20.76	-0.02	0.25
5/7/2024	12:51:39 PM	191.0	1.024	1.85	20.70	-0.05	-0.07
5/7/2024	12:52:42 PM	191.0	1.024	1.87	21.12	-0.05	0.03
5/7/2024	12:53:45 PM	191.0	1.024	1.94	20.95	-0.04	-0.10
5/7/2024	12:54:48 PM	190.9	1.024	1.86	21.16	-0.04	-0.05
5/7/2024	12:55:51 PM	191.0	1.024	1.85	21.24	-0.04	-0.03
5/7/2024	12:56:53 PM	191.0	1.025	1.89	20.31	-0.04	-0.04
5/7/2024	12:57:56 PM	191.0	1.025	1.97	20.13	-0.04	-0.08
5/7/2024	12:58:59 PM	190.9	1.024	1.88	19.54	-0.04	-0.04
5/7/2024	1:00:02 PM	191.0	1.025	1.81	20.83	-0.04	-0.03
5/7/2024	1:01:05 PM	191.0	1.025	1.93	20.19	-0.04	0.00
5/7/2024	1:02:08 PM	191.0	1.023	1.93	20.29	-0.04	-0.12
5/7/2024	1:03:10 PM	191.0	1.024	1.81	20.78	-0.04	-0.07
5/7/2024	1:04:13 PM	191.0	1.024	1.83	21.27	-0.05	-0.04
5/7/2024	1:05:16 PM	191.0	1.024	1.81	20.80	-0.04	-0.05
5/7/2024	1:06:19 PM	191.0	1.024	1.86	20.87	-0.05	-0.01
5/7/2024	1:07:22 PM	191.0	1.024	1.95	20.39	-0.04	0.01
5/7/2024	1:08:25 PM	191.0	1.024	1.92	20.45	-0.04	0.06
5/7/2024	1:09:27 PM	191.0	1.024	1.90	19.82	-0.05	-0.07
5/7/2024	1:10:31 PM	191.0	1.024	1.90	19.64	-0.04	-0.05
5/7/2024	1:11:33 PM	191.0	1.024	1.91	20.59	-0.04	-0.01
5/7/2024	1:12:36 PM	191.0	1.024	1.90	21.14	-0.05	0.05
5/7/2024	1:13:39 PM	191.0	1.024	1.87	20.68	-0.05	-0.09
5/7/2024	1:14:42 PM	191.0	1.024	1.82	20.72	-0.04	-0.02
5/7/2024	1:15:44 PM	191.0	1.024	1.89	20.66	-0.04	0.00

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/7/2024	1:16:47 PM	191.0	1.023	1.83	21.85	-0.05	-0.05
5/7/2024	1:17:50 PM	191.0	1.024	1.89	22.39	-0.04	-0.05
5/7/2024	1:18:53 PM	191.0	1.024	1.80	20.85	-0.04	-0.07
5/7/2024	1:19:56 PM	190.9	1.024	1.88	20.66	-0.04	-0.02
5/7/2024	1:20:59 PM	191.0	1.024	1.89	20.32	-0.04	-0.01
5/7/2024	1:22:01 PM	191.0	1.024	1.99	20.44	-0.05	0.01
5/7/2024	1:23:04 PM	191.0	1.024	1.91	20.37	-0.04	-0.09
5/7/2024	1:24:07 PM	191.0	1.024	1.99	20.07	-0.04	-0.04
5/7/2024	1:25:10 PM	190.9	1.023	1.94	20.10	-0.04	-0.05
5/7/2024	1:26:13 PM	191.0	1.024	1.90	20.84	-0.03	-0.02
5/7/2024	1:27:16 PM	191.0	1.024	1.90	20.16	-0.04	0.04
5/7/2024	1:28:18 PM	191.0	1.024	1.89	20.48	-0.04	-0.10
5/7/2024	1:29:21 PM	191.0	1.024	1.88	20.78	-0.04	-0.05
5/7/2024	1:30:24 PM	191.0	1.024	1.83	21.40	-0.05	0.00
5/7/2024	1:31:27 PM	191.0	1.023	1.99	19.91	-0.04	-0.02
5/7/2024	1:32:30 PM	191.0	1.024	1.90	20.50	-0.05	0.00
5/7/2024	1:33:33 PM	191.0	1.024	1.98	21.13	-0.04	-0.02
5/7/2024	1:34:36 PM	191.0	1.023	1.90	19.64	-0.04	-0.06
5/7/2024	1:35:38 PM	191.0	1.024	1.87	20.45	-0.04	-0.03
5/7/2024	1:36:41 PM	191.0	1.024	1.91	20.85	-0.05	0.02
5/7/2024	1:37:44 PM	191.0	1.023	1.90	20.60	-0.04	-0.02
5/7/2024	1:38:47 PM	191.1	1.023	1.91	20.52	-0.04	-0.06
5/7/2024	1:39:50 PM	191.0	1.024	1.83	21.99	-0.05	-0.02
5/7/2024	1:40:52 PM	191.0	1.026	1.89	21.18	-0.05	-0.01
5/7/2024	1:41:56 PM	191.1	1.032	1.96	18.83	-0.04	-0.07
5/7/2024	1:42:58 PM	191.1	1.040	2.57	16.54	-0.03	-0.12
5/7/2024	1:44:01 PM	191.1	1.046	2.43	15.31	-0.03	-0.04
5/7/2024	1:45:04 PM	191.1	1.048	2.34	15.16	-0.03	-0.07
5/7/2024	1:46:07 PM	191.1	1.047	2.37	14.05	-0.03	-0.08
5/7/2024	1:47:10 PM	191.0	1.014	1.19	9.42	-0.01	-0.06
5/7/2024	1:48:12 PM	190.9	0.999	0.94	3.08	0.00	-0.09
5/7/2024	1:49:15 PM	190.8	0.999	0.60	1.64	0.01	-0.05
5/7/2024	1:50:18 PM	190.7	0.999	0.24	0.82	0.00	0.04
5/7/2024	1:51:21 PM	190.7	0.999	0.07	0.49	0.00	-0.02
5/7/2024	1:52:24 PM	190.7	0.999	0.03	0.30	0.00	0.08
5/7/2024	1:53:27 PM	190.7	0.999	-0.06	0.22	0.00	0.07
5/7/2024	1:54:29 PM	190.7	1.000	0.00	0.19	0.00	0.04
5/7/2024	1:55:33 PM	190.7	1.001	-0.08	0.17	0.00	0.02
5/7/2024	1:56:35 PM	190.7	1.001	0.03	0.15	0.00	0.03
5/7/2024	1:57:38 PM	190.8	1.026	1.09	2.91	0.00	-0.03
5/7/2024	1:58:41 PM	190.8	1.026	0.75	1.92	0.00	-0.04
5/7/2024	1:59:44 PM	190.8	1.024	0.28	1.01	0.00	0.05
5/7/2024	2:00:47 PM	190.8	1.014	0.20	0.84	0.00	0.00
5/7/2024	2:01:49 PM	190.8	1.001	0.12	0.60	0.00	-0.02
5/7/2024	2:02:52 PM	190.7	1.002	0.03	0.32	0.00	0.03
5/7/2024	2:03:55 PM	190.7	1.007	0.01	0.21	0.00	0.07
5/7/2024	2:04:58 PM	190.7	1.016	-0.05	0.08	0.00	0.08
5/7/2024	2:06:01 PM	190.7	1.017	-0.06	0.07	0.00	0.08
5/7/2024	2:07:03 PM	190.8	1.018	-0.03	0.03	0.00	0.02
5/7/2024	2:08:06 PM	190.7	1.018	-0.02	0.01	0.01	0.07
5/7/2024	2:09:09 PM	190.7	1.019	-0.07	0.02	0.00	-0.11
5/7/2024	2:10:12 PM	190.8	1.020	0.00	0.01	0.00	0.03
5/7/2024	2:12:27 PM	190.8	1.021	0.00	0.00	0.00	0.00
5/7/2024	2:13:36 PM	190.8	1.022	0.07	-0.01	0.00	0.00
5/7/2024	2:14:39 PM	190.8	1.004	0.02	0.01	-0.05	73.27
5/7/2024	2:15:42 PM	190.7	1.001	-0.10	-0.01	-0.03	97.61

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/7/2024	2:16:45 PM	190.7	1.001	-0.03	-0.01	-0.03	97.68
5/7/2024	2:17:47 PM	190.7	1.001	-0.03	-0.01	-0.03	97.67
5/7/2024	2:18:51 PM	190.7	1.001	0.08	-0.01	-0.03	97.72
5/7/2024	2:19:53 PM	190.7	1.014	1.43	5.36	-0.05	5.10
5/7/2024	2:20:56 PM	190.8	1.015	2.17	13.99	-0.04	-0.10
5/7/2024	2:21:59 PM	190.9	1.023	1.85	22.13	-0.05	-0.14
5/7/2024	2:23:02 PM	191.1	1.022	1.92	21.91	-0.05	-0.05
5/7/2024	2:24:05 PM	191.1	1.022	1.88	20.84	-0.05	0.02
5/7/2024	2:25:07 PM	191.1	1.022	1.86	21.11	-0.06	-0.06
5/7/2024	2:26:10 PM	191.1	1.022	1.95	22.31	-0.05	-0.01
5/7/2024	2:27:13 PM	191.0	1.022	2.02	22.25	-0.05	-0.06
5/7/2024	2:28:16 PM	191.1	1.022	1.97	21.36	-0.05	-0.05
5/7/2024	2:29:19 PM	191.1	1.023	1.95	21.94	-0.06	0.08
5/7/2024	2:30:21 PM	191.0	1.022	2.00	21.56	-0.05	-0.03
5/7/2024	2:31:24 PM	191.0	1.022	1.93	22.52	-0.05	-0.01
5/7/2024	2:32:27 PM	191.0	1.022	1.73	21.81	-0.04	-0.04
5/7/2024	2:33:30 PM	190.9	1.023	1.38	21.78	-0.05	-0.10
5/7/2024	2:34:33 PM	191.0	1.022	1.42	21.06	-0.05	-0.22
5/7/2024	2:35:36 PM	190.9	1.022	1.70	21.15	-0.05	-0.09
5/7/2024	2:36:39 PM	191.0	1.023	1.73	22.10	-0.05	-0.06
5/7/2024	2:37:41 PM	191.0	1.022	1.90	21.06	-0.05	-0.11
5/7/2024	2:38:44 PM	191.0	1.022	1.90	21.95	-0.05	-0.09
5/7/2024	2:39:47 PM	191.1	1.022	1.89	22.37	-0.05	-0.05
5/7/2024	2:40:50 PM	191.1	1.022	1.91	22.56	-0.05	-0.09
5/7/2024	2:41:53 PM	191.1	1.021	2.04	20.09	-0.05	0.05
5/7/2024	2:42:55 PM	191.0	1.022	1.95	21.79	-0.05	-0.09
5/7/2024	2:43:58 PM	191.1	1.022	2.03	22.01	-0.05	-0.08
5/7/2024	2:45:01 PM	191.0	1.022	1.93	21.30	-0.05	-0.08
5/7/2024	2:46:04 PM	191.1	1.022	2.00	20.56	-0.05	-0.02
5/7/2024	2:47:07 PM	191.0	1.022	1.94	21.44	-0.05	-0.05
5/7/2024	2:48:10 PM	191.1	1.021	2.08	20.15	-0.05	-0.03
5/7/2024	2:49:12 PM	191.0	1.022	2.01	21.49	-0.05	-0.11
5/7/2024	2:50:15 PM	191.1	1.022	1.90	22.72	-0.05	0.12
5/7/2024	2:51:18 PM	191.1	1.022	1.93	20.58	-0.05	0.04
5/7/2024	2:52:21 PM	191.1	1.021	2.04	21.51	-0.05	-0.02
5/7/2024	2:53:24 PM	191.0	1.021	1.95	21.95	-0.05	-0.02
5/7/2024	2:54:27 PM	191.1	1.022	1.92	22.02	-0.05	-0.04
5/7/2024	2:55:29 PM	191.0	1.021	1.93	21.52	-0.05	-0.03
5/7/2024	2:56:33 PM	191.0	1.022	1.93	22.31	-0.05	-0.04
5/7/2024	2:57:35 PM	191.1	1.021	1.93	21.80	-0.05	-0.01
5/7/2024	2:58:38 PM	191.1	1.021	1.95	21.73	-0.05	0.01
5/7/2024	2:59:41 PM	191.1	1.021	2.00	22.05	-0.05	-0.03
5/7/2024	3:00:44 PM	191.1	1.021	1.91	22.03	-0.05	-0.02
5/7/2024	3:01:46 PM	191.1	1.021	1.86	22.59	-0.05	-0.14
5/7/2024	3:02:49 PM	191.1	1.022	1.99	22.91	-0.05	-0.09
5/7/2024	3:03:52 PM	191.1	1.022	1.95	20.70	-0.05	-0.03
5/7/2024	3:04:55 PM	191.0	1.021	1.91	21.37	-0.05	-0.01
5/7/2024	3:05:58 PM	191.0	1.021	2.00	21.30	-0.05	-0.07
5/7/2024	3:07:01 PM	191.1	1.021	2.01	21.69	-0.05	-0.02
5/7/2024	3:08:03 PM	191.1	1.021	2.02	21.60	-0.05	-0.09
5/7/2024	3:09:07 PM	191.1	1.023	1.92	22.92	-0.05	-0.11
5/7/2024	3:10:09 PM	191.1	1.022	1.89	22.62	-0.04	0.00
5/7/2024	3:11:12 PM	191.1	1.021	2.01	21.17	-0.04	-0.03
5/7/2024	3:12:15 PM	191.1	1.021	1.92	21.06	-0.05	-0.09
5/7/2024	3:13:18 PM	191.0	1.022	1.90	21.94	-0.05	-0.07
5/7/2024	3:14:21 PM	191.1	1.021	1.89	22.43	-0.05	-0.07

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/7/2024	3:15:24 PM	191.1	1.021	1.84	22.39	-0.05	0.01
5/7/2024	3:16:26 PM	191.1	1.021	2.05	21.30	-0.05	-0.04
5/7/2024	3:17:29 PM	191.0	1.021	1.98	21.45	-0.05	-0.01
5/7/2024	3:18:32 PM	191.1	1.021	1.88	22.10	-0.05	-0.08
5/7/2024	3:19:35 PM	191.0	1.021	1.93	21.34	-0.05	-0.02
5/7/2024	3:20:38 PM	191.0	1.021	1.93	20.81	-0.05	-0.06
5/7/2024	3:21:40 PM	191.0	1.018	1.94	24.32	-0.05	-0.14
5/7/2024	3:22:43 PM	191.2	1.023	1.72	24.40	-0.05	-0.14
5/7/2024	3:23:46 PM	191.1	1.021	1.95	22.46	-0.05	-0.07
5/7/2024	3:24:49 PM	191.1	1.022	1.93	22.23	-0.05	-0.21
5/7/2024	3:25:52 PM	191.1	1.021	2.00	21.17	-0.05	-0.05
5/7/2024	3:26:55 PM	191.1	1.021	1.91	21.10	-0.05	-0.08
5/7/2024	3:27:58 PM	191.0	1.024	1.71	21.24	-0.03	-0.25
5/7/2024	3:29:00 PM	191.1	1.031	1.20	10.32	0.00	-0.26
5/7/2024	3:30:03 PM	191.0	1.027	1.25	4.45	0.00	-0.07
5/7/2024	3:31:06 PM	190.9	1.022	0.88	2.63	-0.02	-0.02
5/7/2024	3:32:09 PM	190.9	1.023	0.51	1.30	0.01	-0.09
5/7/2024	3:33:12 PM	190.9	1.022	0.16	0.27	0.00	0.01
5/7/2024	3:34:14 PM	190.9	1.022	0.13	0.13	0.00	0.01
5/7/2024	3:35:18 PM	190.8	1.022	0.02	0.09	0.00	-0.08
5/7/2024	3:36:20 PM	190.8	1.022	-0.01	0.07	0.00	-0.01
5/7/2024	3:37:23 PM	190.8	1.020	0.85	2.28	-0.03	0.06
5/7/2024	3:38:26 PM	190.8	1.014	1.96	12.39	-0.05	0.00
5/7/2024	3:39:29 PM	190.8	1.017	2.51	15.21	-0.05	-0.05
5/7/2024	3:40:31 PM	191.0	1.021	2.05	22.40	-0.05	-0.01
5/7/2024	3:41:34 PM	191.0	1.020	2.13	20.44	-0.05	0.01
5/7/2024	3:42:37 PM	191.0	1.020	2.06	21.33	-0.05	-0.16
5/7/2024	3:43:40 PM	191.0	1.022	1.90	21.47	-0.05	-0.03
5/7/2024	3:44:43 PM	191.0	1.021	2.02	21.56	-0.05	-0.02
5/7/2024	3:45:46 PM	191.0	1.020	1.95	20.91	-0.05	0.01
5/7/2024	3:46:49 PM	191.0	1.020	1.98	20.85	-0.05	0.07
5/7/2024	3:47:52 PM	191.0	1.021	1.97	21.66	-0.05	-0.08
5/7/2024	3:48:54 PM	191.0	1.021	1.98	21.61	-0.05	-0.04
5/7/2024	3:49:57 PM	191.0	1.021	1.96	21.81	-0.05	-0.03
5/7/2024	3:51:00 PM	191.0	1.021	1.82	22.17	-0.05	0.02
5/7/2024	3:52:03 PM	191.0	1.021	1.85	22.69	-0.05	-0.09
5/7/2024	3:53:05 PM	191.0	1.021	1.81	21.88	-0.05	-0.09
5/7/2024	3:54:08 PM	191.1	1.020	1.96	21.33	-0.05	-0.09
5/7/2024	3:55:11 PM	191.0	1.021	1.97	21.68	-0.05	-0.13
5/7/2024	3:56:14 PM	191.0	1.021	2.09	20.88	-0.05	-0.09
5/7/2024	3:57:17 PM	191.0	1.021	1.96	21.66	-0.06	-0.05
5/7/2024	3:58:20 PM	191.0	1.020	2.01	21.65	-0.05	-0.01
5/7/2024	3:59:22 PM	191.1	1.021	2.00	21.42	-0.05	-0.02
5/7/2024	4:00:25 PM	191.0	1.021	1.99	21.04	-0.05	-0.01
5/7/2024	4:01:28 PM	191.0	1.020	2.02	21.12	-0.05	-0.07
5/7/2024	4:02:31 PM	191.0	1.020	1.93	21.86	-0.05	-0.04
5/7/2024	4:03:34 PM	191.1	1.020	1.93	22.34	-0.05	-0.11
5/7/2024	4:04:37 PM	191.0	1.021	2.02	21.62	-0.05	0.00
5/7/2024	4:05:39 PM	191.1	1.021	1.86	21.87	-0.05	-0.04
5/7/2024	4:06:42 PM	191.0	1.021	1.93	21.50	-0.05	0.01
5/7/2024	4:07:45 PM	191.1	1.021	2.00	20.82	-0.05	-0.02
5/7/2024	4:08:48 PM	191.0	1.020	2.00	22.03	-0.05	-0.06
5/7/2024	4:09:51 PM	191.1	1.021	1.91	22.70	-0.05	-0.07
5/7/2024	4:10:54 PM	191.1	1.021	1.97	21.62	-0.05	-0.03
5/7/2024	4:11:56 PM	191.1	1.020	2.02	21.37	-0.05	-0.13
5/7/2024	4:12:59 PM	191.1	1.020	1.94	21.29	-0.05	0.01

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/7/2024	4:14:02 PM	191.1	1.021	1.89	22.51	-0.05	0.00
5/7/2024	4:15:05 PM	191.0	1.020	2.01	20.45	-0.06	0.00
5/7/2024	4:16:08 PM	191.0	1.020	1.94	21.44	-0.05	-0.04
5/7/2024	4:17:11 PM	191.1	1.021	1.98	22.23	-0.05	-0.01
5/7/2024	4:18:14 PM	191.1	1.020	2.03	21.52	-0.05	-0.03
5/7/2024	4:19:16 PM	191.1	1.021	1.89	21.73	-0.05	0.01
5/7/2024	4:20:19 PM	191.0	1.020	2.04	21.61	-0.05	0.00
5/7/2024	4:21:22 PM	191.0	1.020	1.88	21.57	-0.05	-0.09
5/7/2024	4:22:25 PM	191.0	1.021	1.88	22.86	-0.05	-0.03
5/7/2024	4:23:28 PM	191.0	1.020	1.86	22.00	-0.05	0.02
5/7/2024	4:24:30 PM	191.1	1.020	1.89	21.35	-0.05	-0.11
5/7/2024	4:25:34 PM	191.0	1.020	1.90	22.34	-0.06	0.00
5/7/2024	4:26:36 PM	191.1	1.020	1.92	21.40	-0.05	-0.04
5/7/2024	4:27:39 PM	191.1	1.020	1.97	22.04	-0.05	0.01
5/7/2024	4:28:42 PM	191.0	1.020	1.94	21.06	-0.05	0.06
5/7/2024	4:29:45 PM	191.1	1.021	1.89	21.57	-0.05	-0.03
5/7/2024	4:30:47 PM	191.1	1.020	2.00	21.06	-0.05	-0.05
5/7/2024	4:31:50 PM	191.0	1.020	1.97	21.13	-0.05	-0.04
5/7/2024	4:32:53 PM	191.1	1.021	1.89	22.50	-0.05	-0.05
5/7/2024	4:33:56 PM	191.1	1.020	1.98	21.62	-0.05	-0.10
5/7/2024	4:34:59 PM	191.0	1.021	1.96	21.07	-0.05	-0.03
5/7/2024	4:36:02 PM	191.1	1.020	2.01	20.85	-0.05	-0.03
5/7/2024	4:37:04 PM	191.1	1.020	1.91	21.55	-0.06	0.06
5/7/2024	4:38:07 PM	191.1	1.020	1.99	21.79	-0.05	-0.07
5/7/2024	4:39:11 PM	191.1	1.021	1.97	21.51	-0.05	-0.02
5/7/2024	4:40:13 PM	191.1	1.020	2.00	21.66	-0.05	-0.03
5/7/2024	4:41:16 PM	191.1	1.020	1.92	21.94	-0.05	-0.09
5/7/2024	4:42:19 PM	191.1	1.021	1.92	22.56	-0.05	-0.06
5/7/2024	4:43:21 PM	191.1	1.020	1.94	21.72	-0.05	-0.06
5/7/2024	4:44:24 PM	191.1	1.021	1.93	22.04	-0.05	0.02
5/7/2024	4:45:27 PM	191.1	1.021	1.96	21.18	-0.05	-0.02
5/7/2024	4:46:30 PM	191.0	1.020	2.00	21.17	-0.05	-0.06
5/7/2024	4:47:33 PM	191.0	1.020	1.93	21.67	-0.06	-0.07
5/7/2024	4:48:36 PM	191.0	1.021	1.93	21.46	-0.05	0.01
5/7/2024	4:49:38 PM	191.0	1.021	2.00	21.76	-0.05	0.05
5/7/2024	4:50:41 PM	191.1	1.017	1.93	21.47	-0.05	-0.02
5/7/2024	4:51:44 PM	191.1	1.021	1.80	24.59	-0.05	-0.17
5/7/2024	4:52:47 PM	191.1	1.021	1.86	22.28	-0.05	-0.12
5/7/2024	4:53:50 PM	191.1	1.021	2.00	21.96	-0.05	-0.03
5/7/2024	4:54:53 PM	191.1	1.020	1.95	21.54	-0.06	-0.08
5/7/2024	4:55:56 PM	191.1	1.020	1.96	21.46	-0.06	-0.11
5/7/2024	4:56:58 PM	191.1	1.021	1.92	21.10	-0.05	-0.03
5/7/2024	4:58:01 PM	191.1	1.021	1.92	20.54	-0.05	-0.13
5/7/2024	4:59:04 PM	191.1	1.021	2.02	21.29	-0.05	-0.14
5/7/2024	5:00:07 PM	191.1	1.021	2.07	21.54	-0.05	-0.02
5/7/2024	5:01:10 PM	191.1	1.021	2.04	20.44	-0.05	-0.03
5/7/2024	5:02:13 PM	191.1	1.021	1.91	20.56	-0.05	-0.05
5/7/2024	5:03:15 PM	191.0	1.021	1.94	21.55	-0.05	0.02
5/7/2024	5:04:18 PM	191.1	1.023	2.06	21.47	-0.04	-0.18
5/7/2024	5:05:21 PM	191.1	1.031	1.21	10.78	0.00	-0.32
5/7/2024	5:06:24 PM	191.0	1.026	1.07	4.07	0.01	-0.20
5/7/2024	5:07:27 PM	191.0	1.023	0.30	0.94	0.00	-0.06
5/7/2024	5:08:29 PM	190.9	1.022	0.32	0.81	0.00	0.03
5/7/2024	5:09:32 PM	190.9	1.022	0.15	0.49	0.00	-0.02
5/7/2024	5:10:35 PM	190.9	1.022	0.21	0.43	-0.01	0.01
5/7/2024	5:11:38 PM	190.9	1.016	1.73	6.90	-0.04	0.02

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/7/2024	5:12:41 PM	190.9	1.014	2.29	14.06	-0.05	-0.10
5/7/2024	5:13:44 PM	191.0	1.022	2.26	20.99	-0.05	-0.12
5/7/2024	5:14:47 PM	191.2	1.020	2.43	19.39	-0.05	-0.16
5/7/2024	5:15:49 PM	191.1	1.021	2.32	20.58	-0.05	-0.18
5/7/2024	5:16:52 PM	191.1	1.019	2.36	19.97	-0.05	-0.20
5/7/2024	5:17:55 PM	191.1	1.022	2.38	21.36	-0.05	-0.15
5/7/2024	5:18:58 PM	191.1	1.020	2.42	19.89	-0.05	-0.10
5/7/2024	5:20:01 PM	191.1	1.021	2.26	21.31	-0.05	-0.16
5/7/2024	5:21:04 PM	191.1	1.021	2.27	21.26	-0.05	-0.04
5/7/2024	5:22:07 PM	191.1	1.021	2.27	20.76	-0.05	-0.08
5/7/2024	5:23:10 PM	191.1	1.021	2.37	21.43	-0.06	-0.08
5/7/2024	5:24:12 PM	191.1	1.020	2.22	21.17	-0.05	-0.11
5/7/2024	5:25:15 PM	191.1	1.021	2.36	21.11	-0.05	-0.13
5/7/2024	5:26:18 PM	191.1	1.020	2.17	21.49	-0.05	-0.13
5/7/2024	5:27:20 PM	191.1	1.021	2.29	21.65	-0.06	-0.02
5/7/2024	5:28:23 PM	191.1	1.021	2.23	21.06	-0.05	-0.08
5/7/2024	5:29:26 PM	191.1	1.020	2.29	21.16	-0.05	-0.05
5/7/2024	5:30:29 PM	191.1	1.020	2.30	20.60	-0.05	-0.02
5/7/2024	5:31:32 PM	191.1	1.021	2.29	21.53	-0.05	-0.16
5/7/2024	5:32:35 PM	191.1	1.020	2.38	20.86	-0.05	0.03
5/7/2024	5:33:37 PM	191.1	1.021	2.33	21.31	-0.05	-0.05
5/7/2024	5:34:40 PM	191.2	1.020	2.44	20.76	-0.05	-0.11
5/7/2024	5:35:49 PM	191.1	1.021	2.30	21.41	-0.05	-0.16
5/7/2024	5:36:50 PM	191.2	1.021	2.35	21.24	-0.05	-0.14
5/7/2024	5:37:53 PM	191.1	1.020	2.33	20.70	-0.05	-0.11
5/7/2024	5:38:56 PM	191.1	1.020	2.22	21.44	-0.05	-0.22
5/7/2024	5:39:59 PM	191.1	1.020	2.25	21.53	-0.05	-0.08
5/7/2024	5:41:01 PM	191.1	1.020	2.39	20.51	-0.05	-0.11
5/7/2024	5:42:04 PM	191.1	1.021	2.28	21.76	-0.05	-0.17
5/7/2024	5:43:07 PM	191.2	1.020	2.28	21.42	-0.05	-0.14
5/7/2024	5:44:10 PM	191.1	1.021	2.27	21.21	-0.04	-0.12
5/7/2024	5:45:13 PM	191.1	1.021	2.34	20.83	-0.05	-0.11
5/7/2024	5:46:15 PM	191.1	1.020	2.41	20.68	-0.05	-0.16
5/7/2024	5:47:19 PM	191.1	1.020	2.14	20.69	-0.05	-0.10
5/7/2024	5:48:21 PM	191.1	1.020	2.08	21.49	-0.05	-0.01
5/7/2024	5:49:24 PM	191.1	1.021	1.98	21.79	-0.05	-0.14
5/7/2024	5:50:27 PM	191.1	1.021	2.05	21.04	-0.05	-0.13
5/7/2024	5:51:30 PM	191.1	1.020	2.08	20.89	-0.05	-0.06
5/7/2024	5:52:32 PM	191.1	1.020	2.12	20.86	-0.05	-0.09
5/7/2024	5:53:36 PM	191.1	1.021	2.04	21.33	-0.05	-0.08
5/7/2024	5:54:38 PM	191.1	1.021	1.99	21.91	-0.05	-0.11
5/7/2024	5:55:41 PM	191.1	1.021	2.07	21.54	-0.04	-0.10
5/7/2024	5:56:44 PM	191.1	1.021	2.06	21.03	-0.05	-0.04
5/7/2024	5:57:46 PM	191.1	1.021	2.00	20.99	-0.05	-0.10
5/7/2024	5:58:50 PM	191.1	1.019	2.12	20.34	-0.05	-0.07
5/7/2024	5:59:52 PM	191.1	1.021	2.01	22.84	-0.05	-0.12
5/7/2024	6:00:55 PM	191.1	1.021	2.07	21.44	-0.05	-0.08
5/7/2024	6:01:58 PM	191.1	1.021	2.10	21.22	-0.05	-0.02
5/7/2024	6:03:01 PM	191.1	1.020	2.08	21.17	-0.05	-0.12
5/7/2024	6:04:04 PM	191.2	1.021	2.05	21.46	-0.04	-0.03
5/7/2024	6:05:06 PM	191.1	1.020	2.02	21.03	-0.05	-0.15
5/7/2024	6:06:09 PM	191.1	1.020	2.13	20.26	-0.05	-0.06
5/7/2024	6:07:12 PM	191.1	1.020	2.02	21.29	-0.05	-0.11
5/7/2024	6:08:15 PM	191.1	1.020	2.07	21.40	-0.05	-0.08
5/7/2024	6:09:18 PM	191.1	1.020	2.11	21.19	-0.05	-0.06
5/7/2024	6:10:21 PM	191.1	1.021	2.22	21.13	-0.05	-0.11

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No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/7/2024	6:11:23 PM	191.1	1.021	1.95	22.50	-0.05	-0.17
5/7/2024	6:12:26 PM	191.1	1.020	2.17	19.57	-0.05	-0.07
5/7/2024	6:13:29 PM	191.1	1.021	2.01	21.46	-0.05	-0.11
5/7/2024	6:14:32 PM	191.1	1.021	2.05	22.08	-0.05	0.00
5/7/2024	6:15:35 PM	191.1	1.020	2.04	20.31	-0.05	-0.11
5/7/2024	6:16:38 PM	191.1	1.021	2.11	21.21	-0.05	-0.11
5/7/2024	6:17:41 PM	191.1	1.021	1.99	21.64	-0.06	-0.09
5/7/2024	6:18:43 PM	191.1	1.021	2.04	21.12	-0.05	-0.12
5/7/2024	6:19:46 PM	191.1	1.021	2.06	21.12	-0.05	-0.06
5/7/2024	6:20:49 PM	191.1	1.021	2.13	20.92	-0.05	0.21
5/7/2024	6:21:52 PM	191.1	1.020	1.99	20.97	-0.05	-0.11
5/7/2024	6:22:55 PM	191.1	1.021	2.07	21.25	-0.05	-0.12
5/7/2024	6:23:57 PM	191.1	1.020	2.08	21.00	-0.05	-0.08
5/7/2024	6:25:00 PM	191.2	1.029	2.00	18.01	-0.02	-0.35
5/7/2024	6:26:03 PM	191.2	1.029	1.59	6.86	-0.01	-0.17
5/7/2024	6:27:06 PM	191.1	1.025	1.07	2.86	0.00	-0.10
5/7/2024	6:28:09 PM	191.0	1.023	0.43	1.08	0.00	-0.02
5/7/2024	6:29:12 PM	191.0	1.022	0.17	0.57	-0.01	0.00
5/7/2024	6:30:15 PM	190.9	1.022	0.14	0.46	-0.01	0.02
5/7/2024	6:31:17 PM	190.9	1.021	0.59	1.07	-0.01	-0.02
5/7/2024	6:32:20 PM	190.9	1.022	0.05	0.10	0.00	-0.04
5/7/2024	6:33:23 PM	190.9	1.022	-0.02	0.06	0.00	-0.01
5/7/2024	6:34:26 PM	190.9	1.022	0.04	0.05	0.00	0.00
5/7/2024	6:35:29 PM	190.9	1.015	1.35	4.87	-0.04	0.15
5/7/2024	6:36:31 PM	190.9	1.013	2.21	14.33	-0.05	-0.08
5/7/2024	6:37:34 PM	191.1	1.021	2.08	21.02	-0.04	-0.31
5/7/2024	6:38:37 PM	191.2	1.021	2.12	20.93	-0.06	-0.13
5/7/2024	6:39:40 PM	191.1	1.021	2.17	21.05	-0.05	-0.09
5/7/2024	6:40:43 PM	191.0	1.020	2.18	19.14	-0.05	-0.05
5/7/2024	6:41:46 PM	191.0	1.021	2.14	19.82	-0.05	-0.08
5/7/2024	6:42:48 PM	191.1	1.021	2.11	20.63	-0.05	-0.11
5/7/2024	6:43:51 PM	191.1	1.021	2.15	21.53	-0.05	-0.08
5/7/2024	6:44:54 PM	191.1	1.021	2.07	20.36	-0.05	-0.07
5/7/2024	6:45:57 PM	191.1	1.020	2.10	21.21	-0.05	-0.07
5/7/2024	6:47:00 PM	191.1	1.020	2.16	20.43	-0.05	-0.10
5/7/2024	6:48:03 PM	191.1	1.020	2.16	20.42	-0.05	-0.08
5/7/2024	6:49:05 PM	191.1	1.021	2.06	20.69	-0.05	-0.10
5/7/2024	6:50:08 PM	191.1	1.020	2.07	20.90	-0.05	-0.08
5/7/2024	6:51:11 PM	191.1	1.021	2.10	20.61	-0.04	-0.19
5/7/2024	6:52:14 PM	191.1	1.020	2.15	20.37	-0.05	-0.08
5/7/2024	6:53:17 PM	191.1	1.021	2.12	19.64	-0.04	-0.15
5/7/2024	6:54:20 PM	191.1	1.021	2.04	20.42	-0.04	-0.01
5/7/2024	6:55:22 PM	191.1	1.021	2.01	21.36	-0.05	-0.08
5/7/2024	6:56:25 PM	191.1	1.021	2.26	19.76	-0.05	-0.13
5/7/2024	6:57:28 PM	191.1	1.020	2.14	19.84	-0.05	-0.15
5/7/2024	6:58:31 PM	191.1	1.021	2.84	16.37	-0.03	-0.16
5/7/2024	6:59:34 PM	191.1	1.034	1.06	2.77	0.00	-0.16
5/7/2024	7:00:37 PM	191.0	1.037	0.35	0.88	0.00	-0.06
5/7/2024	7:01:39 PM	191.0	1.038	0.17	0.36	0.00	-0.01
5/7/2024	7:02:43 PM	191.0	1.039	0.06	0.22	0.00	-0.04
5/7/2024	7:03:45 PM	191.0	1.020	0.02	0.17	0.00	-0.03
5/7/2024	7:04:48 PM	190.9	1.016	0.12	0.10	0.00	-0.02
5/7/2024	7:05:51 PM	190.9	1.016	0.11	0.07	0.00	-0.04
5/7/2024	7:06:54 PM	190.9	1.016	0.02	0.02	0.00	-0.08
5/7/2024	7:07:57 PM	190.8	1.016	0.09	-0.01	0.00	-0.04
5/7/2024	7:09:00 PM	190.8	1.017	0.05	-0.01	0.00	0.02

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/7/2024	7:10:02 PM	190.8	1.017	0.01	-0.01	0.00	-0.03
5/7/2024	7:12:28 PM	190.8	1.017	0.00	0.00	0.00	0.00
5/7/2024	7:13:38 PM	190.7	1.017	0.02	0.00	0.00	0.00
5/7/2024	7:14:41 PM	190.8	1.005	0.01	0.01	-0.05	38.62
5/7/2024	7:15:44 PM	190.8	1.003	-0.02	0.00	-0.03	98.02
5/7/2024	7:16:47 PM	190.7	1.002	-0.04	0.00	-0.03	98.12
5/7/2024	7:17:49 PM	190.7	1.002	0.04	0.00	-0.03	98.54
5/7/2024	7:18:52 PM	190.7	0.997	-0.08	0.01	-0.06	50.46
5/8/2024	7:42:17 AM	190.6	1.023	0.00	-0.01	0.01	-0.02
5/8/2024	7:43:20 AM	190.6	1.023	-0.05	-0.01	0.00	-0.01
5/8/2024	7:44:22 AM	190.7	1.023	-0.05	0.00	0.00	-0.06
5/8/2024	7:45:26 AM	190.6	1.023	-0.11	-0.01	0.00	-0.06
5/8/2024	7:46:28 AM	190.6	1.023	-0.03	-0.01	0.00	-0.07
5/8/2024	7:48:48 AM	190.6	1.023	0.01	-0.01	0.00	-0.10
5/8/2024	7:49:51 AM	190.6	1.024	-0.06	-0.01	0.00	0.00
5/8/2024	7:50:54 AM	190.6	1.024	0.08	-0.01	0.00	-0.03
5/8/2024	7:51:57 AM	190.6	1.024	0.05	-0.01	0.00	-0.05
5/8/2024	7:53:00 AM	190.6	1.024	-0.04	-0.01	0.00	0.02
5/8/2024	7:55:18 AM	190.6	1.024	0.00	0.00	0.00	0.00
5/8/2024	7:56:26 AM	190.6	1.024	0.06	0.00	0.00	-0.02
5/8/2024	7:57:29 AM	190.6	1.010	0.02	0.04	-0.04	26.68
5/8/2024	7:58:32 AM	190.6	1.002	0.04	0.01	-0.02	97.47
5/8/2024	7:59:35 AM	190.6	1.001	0.01	0.00	-0.03	97.22
5/8/2024	8:00:38 AM	190.5	1.003	-0.02	0.01	-0.03	97.74
5/8/2024	8:01:41 AM	190.5	1.004	0.12	0.00	-0.03	97.97
5/8/2024	8:02:43 AM	190.5	1.018	-0.01	0.00	-0.02	12.10
5/8/2024	8:03:46 AM	190.6	1.021	0.01	0.00	0.00	0.02
5/8/2024	8:04:49 AM	190.6	1.022	0.08	0.00	0.00	-0.06
5/8/2024	8:05:52 AM	190.6	1.021	0.03	0.00	0.00	0.01
5/8/2024	8:06:55 AM	190.6	1.021	0.03	0.00	0.00	0.02
5/8/2024	8:07:57 AM	190.7	1.031	1.18	4.25	-0.03	-0.01
5/8/2024	8:09:01 AM	190.7	1.020	1.10	9.50	-0.04	-0.23
5/8/2024	8:10:03 AM	191.0	1.030	1.80	21.96	-0.04	-0.21
5/8/2024	8:11:06 AM	191.1	1.029	1.92	19.47	-0.04	-0.11
5/8/2024	8:12:09 AM	191.1	1.028	1.89	20.03	-0.04	-0.05
5/8/2024	8:13:12 AM	191.1	1.023	2.18	18.11	-0.04	-0.21
5/8/2024	8:14:15 AM	191.0	1.023	2.05	18.63	-0.04	-0.04
5/8/2024	8:15:17 AM	191.0	1.024	2.09	18.61	-0.04	-0.05
5/8/2024	8:16:20 AM	191.0	1.023	2.11	18.74	-0.04	-0.14
5/8/2024	8:17:23 AM	191.0	1.026	2.16	19.41	-0.03	-0.15
5/8/2024	8:18:26 AM	190.9	1.023	2.15	18.32	-0.03	-0.08
5/8/2024	8:19:29 AM	191.0	1.021	2.16	18.62	-0.04	-0.02
5/8/2024	8:20:31 AM	190.9	1.022	2.17	19.70	-0.03	-0.22
5/8/2024	8:21:35 AM	190.9	1.021	2.18	18.46	-0.04	-0.10
5/8/2024	8:22:37 AM	190.9	1.022	2.06	19.10	-0.06	-0.10
5/8/2024	8:23:40 AM	190.9	1.020	2.84	16.96	-0.03	-0.11
5/8/2024	8:24:43 AM	190.9	1.022	2.22	19.41	-0.04	-0.14
5/8/2024	8:25:46 AM	190.9	1.021	2.14	18.26	-0.03	-0.16
5/8/2024	8:26:49 AM	190.8	1.021	2.20	17.88	-0.03	-0.14
5/8/2024	8:27:51 AM	190.9	1.020	2.13	18.88	-0.04	-0.15
5/8/2024	8:28:54 AM	190.9	1.021	2.15	19.23	-0.03	-0.14
5/8/2024	8:29:57 AM	190.9	1.021	2.12	19.37	-0.04	-0.12
5/8/2024	8:31:00 AM	190.9	1.021	2.13	19.93	-0.05	-0.13
5/8/2024	8:32:03 AM	190.9	1.021	2.16	20.36	-0.04	-0.16
5/8/2024	8:33:06 AM	190.9	1.021	2.08	19.87	-0.04	-0.13

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/8/2024	8:34:08 AM	191.0	1.021	2.12	18.73	-0.04	-0.18
5/8/2024	8:35:11 AM	190.9	1.021	2.02	20.99	-0.04	-0.09
5/8/2024	8:36:14 AM	190.9	1.022	2.13	19.82	-0.03	-0.16
5/8/2024	8:37:17 AM	191.0	1.022	2.13	21.49	-0.05	-0.10
5/8/2024	8:38:20 AM	191.0	1.021	2.15	19.46	-0.04	-0.15
5/8/2024	8:39:23 AM	191.0	1.022	2.02	20.77	-0.03	-0.12
5/8/2024	8:40:26 AM	191.0	1.021	2.15	18.72	-0.04	-0.12
5/8/2024	8:41:29 AM	191.0	1.021	2.14	20.41	-0.04	-0.08
5/8/2024	8:42:31 AM	190.9	1.022	2.16	19.23	-0.04	-0.09
5/8/2024	8:43:34 AM	191.0	1.021	2.09	20.03	-0.04	0.00
5/8/2024	8:44:37 AM	191.0	1.021	2.08	20.07	-0.05	-0.04
5/8/2024	8:45:40 AM	191.0	1.022	2.09	20.05	-0.04	-0.11
5/8/2024	8:46:42 AM	191.0	1.021	2.03	20.69	-0.04	-0.01
5/8/2024	8:47:45 AM	191.0	1.021	2.18	19.21	-0.03	-0.08
5/8/2024	8:48:48 AM	191.0	1.021	2.05	20.49	-0.05	-0.08
5/8/2024	8:49:51 AM	191.0	1.022	2.07	20.52	-0.05	-0.05
5/8/2024	8:50:54 AM	191.0	1.021	2.11	19.50	-0.05	-0.08
5/8/2024	8:51:57 AM	191.0	1.021	2.14	19.08	-0.03	-0.18
5/8/2024	8:52:59 AM	191.0	1.022	2.06	19.46	-0.03	-0.20
5/8/2024	8:54:02 AM	191.0	1.022	2.13	20.15	-0.04	-0.12
5/8/2024	8:55:05 AM	190.9	1.021	2.16	18.64	-0.04	-0.17
5/8/2024	8:56:08 AM	191.0	1.021	2.15	20.35	-0.05	-0.23
5/8/2024	8:57:11 AM	191.0	1.021	2.15	18.75	-0.04	-0.04
5/8/2024	8:58:14 AM	190.9	1.021	2.07	20.04	-0.03	-0.09
5/8/2024	8:59:16 AM	191.0	1.021	2.08	18.86	-0.04	-0.03
5/8/2024	9:00:19 AM	191.0	1.021	2.01	19.72	-0.05	-0.10
5/8/2024	9:01:22 AM	191.0	1.022	2.03	20.80	-0.04	-0.02
5/8/2024	9:02:25 AM	191.0	1.020	2.11	18.74	-0.04	-0.09
5/8/2024	9:03:28 AM	191.0	1.021	2.05	20.95	-0.04	-0.09
5/8/2024	9:04:31 AM	191.0	1.021	1.97	18.65	-0.04	-0.09
5/8/2024	9:05:34 AM	190.9	1.021	1.49	20.14	-0.05	-0.11
5/8/2024	9:06:36 AM	190.9	1.022	1.58	19.88	-0.04	-0.10
5/8/2024	9:07:39 AM	190.9	1.021	1.73	18.26	-0.03	-0.02
5/8/2024	9:08:42 AM	190.9	1.021	1.82	19.25	-0.04	-0.09
5/8/2024	9:09:45 AM	190.9	1.021	1.91	19.19	-0.04	-0.15
5/8/2024	9:10:48 AM	190.9	1.021	2.07	20.06	-0.04	-0.14
5/8/2024	9:11:51 AM	191.0	1.021	2.07	19.38	-0.04	-0.06
5/8/2024	9:12:54 AM	191.0	1.021	2.07	18.44	-0.04	-0.07
5/8/2024	9:13:56 AM	191.0	1.021	2.02	19.86	-0.04	-0.13
5/8/2024	9:14:59 AM	191.0	1.021	2.07	19.37	-0.03	-0.17
5/8/2024	9:16:02 AM	191.0	1.022	1.94	19.61	-0.04	-0.09
5/8/2024	9:17:05 AM	191.0	1.021	1.99	19.04	-0.05	-0.11
5/8/2024	9:18:08 AM	191.0	1.020	2.02	18.94	-0.04	-0.14
5/8/2024	9:19:10 AM	190.9	1.021	2.04	19.57	-0.05	-0.08
5/8/2024	9:20:14 AM	191.0	1.021	2.01	18.43	-0.04	-0.18
5/8/2024	9:21:16 AM	191.0	1.021	2.06	19.65	-0.04	-0.23
5/8/2024	9:22:19 AM	191.0	1.021	1.97	18.79	-0.04	-0.13
5/8/2024	9:23:22 AM	191.0	1.021	1.99	18.13	-0.04	-0.09
5/8/2024	9:24:25 AM	190.9	1.021	2.00	18.73	-0.04	-0.06
5/8/2024	9:25:28 AM	191.0	1.020	2.06	18.27	-0.04	-0.11
5/8/2024	9:26:31 AM	191.0	1.018	2.20	19.95	-0.04	-0.15
5/8/2024	9:27:33 AM	191.0	1.032	2.52	15.98	-0.01	-0.43
5/8/2024	9:28:36 AM	191.0	1.030	1.63	7.21	0.00	-0.17
5/8/2024	9:29:39 AM	190.9	1.025	1.02	3.22	0.00	-0.03
5/8/2024	9:30:42 AM	190.8	1.023	1.13	2.99	-0.01	-0.10
5/8/2024	9:31:44 AM	190.7	1.022	0.66	1.53	0.01	-0.10

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/8/2024	9:32:47 AM	190.7	1.022	0.26	0.86	0.00	-0.03
5/8/2024	9:33:50 AM	190.7	1.022	0.17	0.57	0.00	-0.04
5/8/2024	9:34:53 AM	190.7	1.014	1.54	6.31	-0.04	0.06
5/8/2024	9:35:56 AM	190.7	1.014	2.04	11.77	-0.04	-0.07
5/8/2024	9:36:59 AM	190.9	1.021	2.12	18.13	-0.05	-0.15
5/8/2024	9:38:02 AM	190.9	1.020	2.18	17.81	-0.04	-0.03
5/8/2024	9:39:04 AM	190.9	1.020	2.10	18.14	-0.04	-0.12
5/8/2024	9:40:07 AM	190.9	1.021	2.06	18.36	-0.05	-0.03
5/8/2024	9:41:10 AM	190.8	1.021	2.10	18.34	-0.04	-0.08
5/8/2024	9:42:13 AM	190.9	1.021	2.08	18.99	-0.04	0.05
5/8/2024	9:43:16 AM	190.9	1.021	2.16	17.79	-0.04	-0.17
5/8/2024	9:44:19 AM	190.9	1.021	2.21	18.03	-0.04	-0.18
5/8/2024	9:45:21 AM	190.9	1.021	2.18	16.61	-0.04	-0.06
5/8/2024	9:46:24 AM	190.9	1.021	2.07	19.04	-0.04	-0.12
5/8/2024	9:47:27 AM	191.0	1.021	2.12	18.75	-0.05	-0.13
5/8/2024	9:48:30 AM	190.9	1.021	2.07	18.17	-0.04	-0.06
5/8/2024	9:49:33 AM	190.9	1.020	2.16	17.75	-0.04	-0.17
5/8/2024	9:50:36 AM	190.9	1.020	2.09	17.16	-0.04	-0.12
5/8/2024	9:51:39 AM	191.0	1.021	2.05	19.74	-0.04	-0.12
5/8/2024	9:52:41 AM	191.0	1.020	2.11	18.75	-0.05	-0.06
5/8/2024	9:53:44 AM	190.9	1.021	2.10	19.32	-0.04	-0.10
5/8/2024	9:54:47 AM	190.9	1.020	2.14	18.73	-0.05	0.02
5/8/2024	9:55:50 AM	190.9	1.020	2.06	19.16	-0.04	-0.07
5/8/2024	9:56:52 AM	190.9	1.020	2.04	19.45	-0.04	-0.06
5/8/2024	9:57:55 AM	191.0	1.021	2.05	19.45	-0.05	-0.17
5/8/2024	9:58:58 AM	191.0	1.020	2.08	18.96	-0.04	-0.07
5/8/2024	10:00:01 AM	191.0	1.021	2.09	19.62	-0.05	-0.04
5/8/2024	10:01:04 AM	191.0	1.021	2.13	19.38	-0.04	-0.04
5/8/2024	10:02:07 AM	190.9	1.020	2.13	17.98	-0.04	-0.07
5/8/2024	10:03:09 AM	190.9	1.020	2.09	19.05	-0.04	-0.08
5/8/2024	10:04:12 AM	191.0	1.021	2.05	19.55	-0.05	0.10
5/8/2024	10:05:15 AM	191.0	1.020	2.08	18.89	-0.04	0.01
5/8/2024	10:06:18 AM	191.0	1.021	2.00	19.45	-0.05	-0.01
5/8/2024	10:07:21 AM	191.0	1.020	1.97	18.69	-0.04	-0.02
5/8/2024	10:08:24 AM	191.0	1.020	2.06	18.79	-0.04	-0.05
5/8/2024	10:09:27 AM	191.0	1.020	2.07	20.07	-0.04	-0.01
5/8/2024	10:10:30 AM	191.0	1.021	2.13	19.23	-0.04	-0.07
5/8/2024	10:11:32 AM	191.0	1.020	2.01	18.38	-0.04	-0.04
5/8/2024	10:12:35 AM	191.0	1.021	2.03	19.08	-0.04	-0.10
5/8/2024	10:13:38 AM	191.0	1.020	2.08	19.02	-0.04	-0.07
5/8/2024	10:14:41 AM	191.1	1.021	2.02	20.09	-0.04	-0.10
5/8/2024	10:15:44 AM	191.0	1.021	1.99	19.28	-0.05	-0.02
5/8/2024	10:16:46 AM	191.0	1.021	2.13	19.30	-0.05	-0.04
5/8/2024	10:17:49 AM	191.0	1.021	2.08	18.38	-0.05	-0.02
5/8/2024	10:18:52 AM	191.0	1.020	2.08	19.24	-0.04	-0.08
5/8/2024	10:19:55 AM	191.0	1.020	2.01	18.03	-0.04	-0.08
5/8/2024	10:20:58 AM	191.0	1.021	2.08	20.10	-0.05	-0.13
5/8/2024	10:22:01 AM	191.0	1.021	2.06	19.06	-0.04	-0.08
5/8/2024	10:23:03 AM	191.0	1.021	2.09	19.62	-0.05	-0.01
5/8/2024	10:24:06 AM	191.1	1.021	2.07	18.99	-0.03	-0.05
5/8/2024	10:25:09 AM	191.0	1.020	2.00	18.83	-0.03	0.14
5/8/2024	10:26:12 AM	191.1	1.021	2.04	18.93	-0.04	-0.08
5/8/2024	10:27:15 AM	191.0	1.020	2.09	19.20	-0.04	-0.13
5/8/2024	10:28:18 AM	191.0	1.020	1.96	19.69	-0.04	-0.13
5/8/2024	10:29:20 AM	191.0	1.020	2.03	19.09	-0.04	0.03
5/8/2024	10:30:23 AM	191.0	1.021	2.05	19.40	-0.04	-0.10

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/8/2024	10:31:26 AM	191.0	1.019	2.00	18.37	-0.04	-0.12
5/8/2024	10:32:29 AM	191.0	1.021	2.06	19.27	-0.04	-0.13
5/8/2024	10:33:32 AM	191.0	1.020	1.99	18.68	-0.04	-0.09
5/8/2024	10:34:35 AM	191.0	1.020	2.12	18.35	-0.04	-0.04
5/8/2024	10:35:38 AM	191.0	1.020	2.08	20.28	-0.04	-0.05
5/8/2024	10:36:41 AM	191.0	1.023	2.05	19.22	-0.03	-0.14
5/8/2024	10:37:43 AM	191.1	1.030	1.24	9.58	0.00	-0.27
5/8/2024	10:38:46 AM	190.9	1.027	1.24	4.39	0.01	-0.16
5/8/2024	10:39:49 AM	190.9	1.024	0.88	2.27	0.00	-0.06
5/8/2024	10:40:52 AM	190.8	1.022	0.48	1.38	0.00	0.08
5/8/2024	10:41:54 AM	190.7	1.021	0.38	1.07	0.00	0.04
5/8/2024	10:42:57 AM	190.7	1.018	0.93	2.94	-0.03	0.01
5/8/2024	10:44:00 AM	190.7	1.012	1.18	11.19	-0.04	-0.04
5/8/2024	10:45:03 AM	190.8	1.018	2.64	16.11	-0.03	-0.24
5/8/2024	10:46:06 AM	190.9	1.019	2.81	17.91	-0.04	-0.15
5/8/2024	10:47:09 AM	190.8	1.021	2.13	19.92	-0.05	-0.07
5/8/2024	10:48:11 AM	190.8	1.021	2.26	18.39	-0.04	-0.07
5/8/2024	10:49:14 AM	190.9	1.020	2.08	18.87	-0.04	-0.09
5/8/2024	10:50:17 AM	191.0	1.020	2.12	18.33	-0.04	-0.08
5/8/2024	10:51:20 AM	190.9	1.020	2.10	17.94	-0.05	-0.04
5/8/2024	10:52:23 AM	190.9	1.020	2.09	19.19	-0.04	-0.10
5/8/2024	10:53:26 AM	190.9	1.021	2.08	19.98	-0.05	-0.06
5/8/2024	10:54:28 AM	191.0	1.020	2.11	18.31	-0.04	-0.10
5/8/2024	10:55:32 AM	190.9	1.020	2.14	18.44	-0.04	-0.04
5/8/2024	10:56:34 AM	190.9	1.020	2.09	19.07	-0.04	-0.13
5/8/2024	10:57:37 AM	191.0	1.020	2.16	19.15	-0.05	0.04
5/8/2024	10:58:40 AM	190.9	1.020	2.05	19.18	-0.04	-0.08
5/8/2024	10:59:43 AM	191.0	1.020	2.10	20.32	-0.04	-0.11
5/8/2024	11:00:46 AM	190.9	1.021	2.16	19.59	-0.07	-0.04
5/8/2024	11:01:48 AM	191.0	1.020	2.11	19.32	-0.05	-0.02
5/8/2024	11:02:52 AM	191.0	1.020	2.08	18.45	-0.04	-0.05
5/8/2024	11:03:54 AM	191.0	1.020	2.08	19.09	-0.04	-0.06
5/8/2024	11:04:57 AM	191.0	1.020	2.06	19.00	-0.04	-0.08
5/8/2024	11:06:00 AM	191.0	1.020	2.13	19.04	-0.04	-0.07
5/8/2024	11:07:03 AM	191.0	1.020	2.06	18.89	-0.04	-0.04
5/8/2024	11:08:05 AM	191.0	1.020	2.14	17.70	-0.04	-0.08
5/8/2024	11:09:08 AM	191.0	1.020	2.09	19.17	-0.05	-0.05
5/8/2024	11:10:11 AM	191.0	1.020	2.11	18.84	-0.04	-0.04
5/8/2024	11:11:14 AM	191.0	1.020	2.09	19.82	-0.05	-0.04
5/8/2024	11:12:17 AM	191.0	1.021	2.04	19.09	-0.04	-0.17
5/8/2024	11:13:20 AM	191.1	1.020	2.14	19.15	-0.05	-0.06
5/8/2024	11:14:23 AM	191.0	1.020	2.08	19.40	-0.04	-0.11
5/8/2024	11:15:25 AM	191.0	1.020	2.04	18.65	-0.04	0.01
5/8/2024	11:16:28 AM	191.0	1.020	2.04	19.71	-0.04	0.00
5/8/2024	11:17:31 AM	191.0	1.020	2.17	18.38	-0.05	-0.05
5/8/2024	11:18:34 AM	191.0	1.020	2.16	19.38	-0.05	0.02
5/8/2024	11:19:37 AM	191.1	1.020	2.10	19.84	-0.05	0.08
5/8/2024	11:20:39 AM	191.0	1.021	2.14	19.26	-0.05	-0.05
5/8/2024	11:21:42 AM	191.0	1.021	2.14	19.06	-0.05	0.01
5/8/2024	11:22:45 AM	191.0	1.020	2.17	18.62	-0.04	0.01
5/8/2024	11:23:48 AM	191.1	1.021	2.09	18.38	-0.05	0.04
5/8/2024	11:24:51 AM	191.0	1.020	2.12	19.14	-0.05	0.02
5/8/2024	11:25:54 AM	191.2	1.020	2.10	19.71	-0.04	-0.05
5/8/2024	11:26:56 AM	191.1	1.021	2.03	19.22	-0.04	-0.06
5/8/2024	11:27:59 AM	191.1	1.020	2.12	19.23	-0.04	-0.06
5/8/2024	11:29:02 AM	191.1	1.021	2.10	19.85	-0.04	-0.03

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/8/2024	11:30:05 AM	191.0	1.020	2.07	18.68	-0.04	-0.08
5/8/2024	11:31:08 AM	191.0	1.020	2.07	18.95	-0.05	-0.02
5/8/2024	11:32:11 AM	191.0	1.020	2.12	19.09	-0.04	-0.08
5/8/2024	11:33:13 AM	191.1	1.020	2.12	18.76	-0.04	-0.01
5/8/2024	11:34:16 AM	191.0	1.020	2.09	18.96	-0.05	-0.04
5/8/2024	11:35:19 AM	191.0	1.020	2.10	18.31	-0.04	-0.03
5/8/2024	11:36:22 AM	191.0	1.020	2.14	19.30	-0.04	-0.06
5/8/2024	11:37:25 AM	191.1	1.021	2.11	19.10	-0.04	-0.06
5/8/2024	11:38:28 AM	191.0	1.020	2.13	18.64	-0.04	-0.05
5/8/2024	11:39:31 AM	191.0	1.020	2.06	19.33	-0.04	-0.03
5/8/2024	11:40:33 AM	191.1	1.021	2.14	19.94	-0.04	-0.06
5/8/2024	11:41:36 AM	191.0	1.020	2.15	18.60	-0.04	-0.02
5/8/2024	11:42:39 AM	191.0	1.020	2.24	18.35	-0.05	0.22
5/8/2024	11:43:42 AM	191.0	1.019	2.10	19.48	-0.04	-0.04
5/8/2024	11:44:45 AM	191.0	1.019	1.96	22.06	-0.04	-0.05
5/8/2024	11:45:47 AM	191.1	1.021	2.11	20.25	-0.04	-0.05
5/8/2024	11:46:50 AM	191.1	1.020	2.10	19.25	-0.04	-0.11
5/8/2024	11:47:53 AM	191.1	1.028	2.57	16.18	0.00	-0.32
5/8/2024	11:48:56 AM	191.1	1.028	1.64	6.94	-0.01	-0.07
5/8/2024	11:49:59 AM	191.0	1.025	1.09	3.37	-0.01	-0.05
5/8/2024	11:51:02 AM	190.9	1.022	0.86	2.21	0.00	-0.06
5/8/2024	11:52:04 AM	190.8	1.021	0.90	2.45	-0.01	-0.06
5/8/2024	11:53:07 AM	190.8	1.021	0.97	2.45	-0.01	-0.03
5/8/2024	11:54:10 AM	190.8	1.021	0.40	1.09	0.00	-0.01
5/8/2024	11:55:13 AM	190.8	1.021	0.25	0.62	0.00	0.05
5/8/2024	11:56:16 AM	190.7	1.021	0.19	0.34	0.00	0.01
5/8/2024	11:57:19 AM	190.8	1.018	1.14	3.13	-0.03	0.10
5/8/2024	11:58:21 AM	190.8	1.012	1.38	11.43	-0.05	0.01
5/8/2024	11:59:24 AM	190.7	1.016	2.57	14.74	-0.04	-0.09
5/8/2024	12:00:27 PM	190.9	1.019	2.07	19.73	-0.03	-0.04
5/8/2024	12:01:30 PM	190.9	1.020	2.14	18.20	-0.04	-0.10
5/8/2024	12:02:33 PM	190.9	1.020	2.16	19.36	-0.05	0.00
5/8/2024	12:03:36 PM	191.0	1.020	2.20	18.28	-0.04	-0.01
5/8/2024	12:04:39 PM	191.0	1.020	2.11	19.42	-0.04	0.03
5/8/2024	12:05:41 PM	190.9	1.020	2.16	18.85	-0.04	-0.02
5/8/2024	12:06:44 PM	190.9	1.020	2.09	19.47	-0.04	-0.03
5/8/2024	12:07:47 PM	191.0	1.020	2.11	19.09	-0.05	0.00
5/8/2024	12:08:50 PM	191.0	1.019	2.14	18.30	-0.05	-0.04
5/8/2024	12:09:53 PM	191.0	1.020	2.13	19.78	-0.05	-0.06
5/8/2024	12:10:55 PM	191.0	1.020	2.09	18.32	-0.04	-0.02
5/8/2024	12:11:58 PM	191.0	1.020	2.15	19.01	-0.05	-0.03
5/8/2024	12:13:01 PM	191.0	1.019	2.17	18.52	-0.05	-0.04
5/8/2024	12:14:04 PM	191.0	1.020	2.15	19.30	-0.05	-0.02
5/8/2024	12:15:07 PM	191.1	1.020	2.07	19.12	-0.05	-0.05
5/8/2024	12:16:10 PM	191.0	1.019	2.11	19.26	-0.04	0.03
5/8/2024	12:17:13 PM	191.0	1.019	2.12	19.71	-0.04	-0.18
5/8/2024	12:18:16 PM	191.0	1.020	2.05	19.76	-0.05	-0.01
5/8/2024	12:19:18 PM	191.0	1.019	2.14	17.86	-0.05	0.00
5/8/2024	12:20:21 PM	191.1	1.020	2.13	20.25	-0.04	-0.05
5/8/2024	12:21:24 PM	191.1	1.020	2.11	18.79	-0.05	0.03
5/8/2024	12:22:27 PM	191.1	1.020	2.17	18.80	-0.04	-0.09
5/8/2024	12:23:29 PM	191.0	1.019	2.08	18.39	-0.04	-0.11
5/8/2024	12:24:32 PM	191.0	1.020	2.10	19.23	-0.04	-0.02
5/8/2024	12:25:35 PM	191.0	1.020	2.19	19.45	-0.05	-0.06
5/8/2024	12:26:38 PM	191.0	1.019	2.12	19.09	-0.04	-0.06
5/8/2024	12:27:41 PM	191.0	1.020	2.05	19.52	-0.04	-0.01

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/8/2024	12:28:44 PM	191.0	1.020	2.15	18.37	-0.04	-0.02
5/8/2024	12:29:47 PM	191.1	1.020	2.09	19.37	-0.04	-0.03
5/8/2024	12:30:49 PM	191.1	1.020	2.01	19.18	-0.04	0.00
5/8/2024	12:31:52 PM	191.1	1.019	2.20	17.79	-0.04	0.01
5/8/2024	12:32:55 PM	191.0	1.019	2.10	19.03	-0.04	0.00
5/8/2024	12:33:58 PM	191.0	1.019	2.14	19.04	-0.04	0.02
5/8/2024	12:35:01 PM	191.0	1.020	2.08	20.00	-0.04	0.00
5/8/2024	12:36:04 PM	191.0	1.020	2.12	19.14	-0.04	0.00
5/8/2024	12:37:06 PM	191.0	1.019	2.08	19.50	-0.05	-0.03
5/8/2024	12:38:10 PM	191.1	1.020	2.18	18.34	-0.04	-0.04
5/8/2024	12:39:12 PM	191.0	1.020	2.05	19.96	-0.04	-0.01
5/8/2024	12:40:15 PM	191.0	1.019	2.12	18.70	-0.04	-0.09
5/8/2024	12:41:18 PM	191.1	1.020	2.14	19.93	-0.04	-0.09
5/8/2024	12:42:21 PM	191.0	1.020	2.09	18.57	-0.04	-0.04
5/8/2024	12:43:23 PM	191.1	1.020	2.14	18.40	-0.05	0.02
5/8/2024	12:44:26 PM	191.0	1.019	2.01	18.93	-0.04	-0.02
5/8/2024	12:45:29 PM	191.0	1.020	2.01	19.04	-0.04	-0.06
5/8/2024	12:46:32 PM	191.1	1.020	2.07	19.42	-0.05	0.01
5/8/2024	12:47:35 PM	191.1	1.019	2.17	18.84	-0.05	0.00
5/8/2024	12:48:38 PM	191.0	1.018	2.13	18.34	-0.04	-0.07
5/8/2024	12:49:40 PM	191.0	1.019	2.03	19.27	-0.04	-0.02
5/8/2024	12:50:43 PM	190.9	1.019	2.14	18.16	-0.04	-0.09
5/8/2024	12:51:46 PM	191.0	1.020	2.04	20.03	-0.06	-0.04
5/8/2024	12:52:49 PM	191.0	1.020	2.01	20.35	-0.05	0.03
5/8/2024	12:53:52 PM	191.0	1.019	2.02	18.89	-0.05	0.00
5/8/2024	12:54:55 PM	191.0	1.020	2.11	19.53	-0.04	0.01
5/8/2024	12:55:57 PM	191.0	1.019	2.12	17.52	-0.05	-0.02
5/8/2024	12:57:00 PM	191.0	1.019	2.03	19.60	-0.04	-0.01
5/8/2024	12:58:03 PM	191.1	1.019	2.15	19.51	-0.05	-0.01
5/8/2024	12:59:06 PM	191.1	1.019	2.09	18.82	-0.04	-0.06
5/8/2024	1:00:09 PM	191.0	1.020	2.06	20.05	-0.04	-0.05
5/8/2024	1:01:12 PM	191.1	1.020	2.85	17.05	-0.03	-0.10
5/8/2024	1:02:14 PM	191.0	1.021	1.28	4.34	0.01	-0.03
5/8/2024	1:03:18 PM	190.9	1.018	0.49	1.08	0.00	-0.05
5/8/2024	1:04:20 PM	190.8	1.017	0.13	0.48	0.00	0.01
5/8/2024	1:05:23 PM	190.8	1.018	0.13	0.36	0.00	0.01
5/8/2024	1:06:26 PM	190.8	1.017	0.09	0.23	0.00	-0.03
5/8/2024	1:07:29 PM	190.7	1.018	0.09	0.14	0.00	0.02
5/8/2024	1:08:31 PM	190.7	1.018	-0.02	0.09	0.00	0.07
5/8/2024	1:09:35 PM	190.7	1.018	0.04	0.06	0.00	0.00
5/8/2024	1:10:37 PM	190.7	1.018	0.04	0.02	0.00	-0.02
5/8/2024	1:11:40 PM	190.7	1.018	0.13	0.01	0.01	-0.04
5/8/2024	1:12:43 PM	190.7	1.018	0.05	0.02	0.00	-0.04
5/8/2024	1:13:46 PM	190.8	1.018	0.06	0.01	0.00	-0.03
5/8/2024	1:14:48 PM	190.8	1.019	0.06	0.02	0.00	0.02
5/8/2024	1:15:51 PM	190.7	1.019	0.03	0.01	0.00	-0.02
5/8/2024	1:18:09 PM	190.7	1.019	0.00	0.00	0.00	0.00
5/8/2024	1:19:17 PM	190.7	1.019	-0.13	0.00	0.00	-0.09
5/8/2024	1:20:20 PM	190.7	1.019	-0.02	-0.01	0.00	-0.05
5/8/2024	1:21:23 PM	190.7	1.001	-0.04	0.02	-0.06	70.16
5/8/2024	1:22:26 PM	190.7	1.001	0.04	0.00	-0.03	97.83
5/8/2024	1:23:29 PM	190.7	1.001	-0.01	0.00	-0.03	97.80
5/8/2024	1:24:32 PM	190.7	1.000	-0.07	-0.01	-0.03	97.89
5/8/2024	1:25:34 PM	190.6	1.000	-0.13	0.00	-0.03	98.05
5/8/2024	1:26:37 PM	190.7	1.012	-0.03	0.00	-0.01	9.60
5/8/2024	1:27:41 PM	190.7	1.017	0.02	0.00	0.00	0.01

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No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/8/2024	1:28:43 PM	190.7	1.018	1.32	5.04	-0.04	0.19
5/8/2024	1:29:46 PM	191.0	1.023	1.89	18.17	-0.04	-0.17
5/8/2024	1:30:49 PM	191.2	1.025	1.91	19.63	-0.04	-0.13
5/8/2024	1:31:52 PM	191.2	1.025	1.91	19.04	-0.04	-0.03
5/8/2024	1:32:54 PM	191.1	1.027	1.93	20.79	-0.05	-0.06
5/8/2024	1:33:57 PM	191.1	1.026	1.98	18.98	-0.04	-0.05
5/8/2024	1:35:00 PM	191.1	1.026	1.89	19.52	-0.04	-0.15
5/8/2024	1:36:03 PM	191.0	1.026	1.93	19.59	-0.05	-0.08
5/8/2024	1:37:06 PM	191.1	1.026	2.10	19.50	-0.05	-0.11
5/8/2024	1:38:09 PM	191.0	1.025	2.05	19.26	-0.05	-0.05
5/8/2024	1:39:12 PM	191.0	1.025	1.96	20.12	-0.05	-0.07
5/8/2024	1:40:14 PM	191.0	1.025	2.04	19.39	-0.05	-0.11
5/8/2024	1:41:17 PM	191.1	1.026	2.03	19.48	-0.05	-0.15
5/8/2024	1:42:20 PM	191.0	1.025	1.98	19.30	-0.04	-0.17
5/8/2024	1:43:23 PM	191.1	1.026	1.99	19.32	-0.04	-0.08
5/8/2024	1:44:25 PM	191.0	1.026	2.04	18.23	-0.04	-0.13
5/8/2024	1:45:28 PM	191.0	1.025	2.07	18.63	-0.05	0.00
5/8/2024	1:46:31 PM	190.9	1.024	1.99	18.36	-0.05	-0.15
5/8/2024	1:47:34 PM	191.0	1.026	1.97	19.45	-0.04	-0.09
5/8/2024	1:48:37 PM	191.0	1.025	1.99	19.91	-0.04	-0.11
5/8/2024	1:49:40 PM	191.0	1.026	1.98	19.65	-0.05	-0.07
5/8/2024	1:50:43 PM	191.0	1.026	1.99	19.52	-0.05	-0.08
5/8/2024	1:51:45 PM	191.0	1.025	2.03	19.08	-0.05	-0.08
5/8/2024	1:52:48 PM	191.0	1.025	1.94	19.59	-0.05	-0.03
5/8/2024	1:53:51 PM	191.0	1.026	2.01	19.01	-0.05	-0.11
5/8/2024	1:54:54 PM	191.0	1.025	2.02	18.70	-0.05	-0.06
5/8/2024	1:55:57 PM	191.0	1.026	2.05	19.82	-0.05	-0.05
5/8/2024	1:57:00 PM	191.0	1.026	1.95	19.59	-0.05	-0.10
5/8/2024	1:58:02 PM	191.0	1.025	2.02	18.30	-0.05	-0.07
5/8/2024	1:59:05 PM	191.0	1.025	1.92	19.21	-0.04	-0.08
5/8/2024	2:00:08 PM	191.0	1.025	2.05	19.69	-0.05	-0.06
5/8/2024	2:01:11 PM	191.0	1.026	2.01	19.19	-0.05	-0.05
5/8/2024	2:02:14 PM	191.0	1.026	1.99	20.00	-0.05	-0.06
5/8/2024	2:03:17 PM	191.0	1.026	1.93	19.67	-0.05	-0.09
5/8/2024	2:04:19 PM	191.0	1.026	2.09	18.73	-0.04	-0.16
5/8/2024	2:05:22 PM	191.0	1.025	1.90	19.22	-0.05	-0.08
5/8/2024	2:06:25 PM	191.0	1.026	2.00	19.70	-0.05	-0.12
5/8/2024	2:07:28 PM	190.9	1.026	2.01	19.22	-0.05	-0.10
5/8/2024	2:08:31 PM	190.9	1.026	2.00	19.28	-0.05	-0.06
5/8/2024	2:09:33 PM	191.0	1.026	1.97	18.85	-0.05	-0.06
5/8/2024	2:10:36 PM	191.0	1.026	2.00	18.28	-0.04	-0.12
5/8/2024	2:11:39 PM	190.9	1.026	2.06	19.36	-0.05	-0.05
5/8/2024	2:12:42 PM	191.0	1.026	2.03	18.62	-0.05	-0.12
5/8/2024	2:13:45 PM	190.9	1.024	2.01	17.60	-0.05	-0.03
5/8/2024	2:14:48 PM	190.9	1.026	1.97	20.16	-0.05	-0.05
5/8/2024	2:15:51 PM	191.1	1.026	2.04	18.75	-0.05	-0.02
5/8/2024	2:16:53 PM	191.0	1.026	2.10	18.23	-0.04	-0.07
5/8/2024	2:17:56 PM	191.0	1.026	2.08	19.03	-0.05	-0.06
5/8/2024	2:18:59 PM	190.9	1.025	2.05	18.18	-0.05	-0.03
5/8/2024	2:20:02 PM	190.9	1.025	2.01	18.85	-0.05	-0.01
5/8/2024	2:21:05 PM	190.9	1.026	2.00	19.36	-0.05	-0.06
5/8/2024	2:22:07 PM	191.0	1.026	2.00	19.13	-0.05	-0.09
5/8/2024	2:23:10 PM	191.0	1.025	1.96	19.05	-0.05	-0.07
5/8/2024	2:24:13 PM	191.0	1.025	2.01	19.27	-0.05	-0.01
5/8/2024	2:25:16 PM	190.9	1.026	2.08	19.36	-0.05	-0.09
5/8/2024	2:26:19 PM	191.0	1.024	2.06	18.59	-0.05	0.01

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/8/2024	2:27:22 PM	191.1	1.024	1.96	20.20	-0.05	-0.05
5/8/2024	2:28:25 PM	191.1	1.026	1.89	21.28	-0.05	-0.02
5/8/2024	2:29:27 PM	191.1	1.026	2.03	19.46	-0.05	-0.09
5/8/2024	2:30:30 PM	191.0	1.025	2.04	18.64	-0.05	-0.10
5/8/2024	2:31:33 PM	191.0	1.026	1.94	18.71	-0.05	-0.06
5/8/2024	2:32:36 PM	191.0	1.025	2.11	18.26	-0.05	0.00
5/8/2024	2:33:39 PM	191.0	1.026	1.93	19.73	-0.05	-0.11
5/8/2024	2:34:42 PM	191.0	1.025	2.02	18.95	-0.05	0.00
5/8/2024	2:35:44 PM	190.9	1.025	2.06	18.97	-0.05	-0.04
5/8/2024	2:36:47 PM	191.0	1.026	2.03	20.03	-0.04	-0.14
5/8/2024	2:37:50 PM	191.0	1.026	2.04	18.15	-0.05	-0.12
5/8/2024	2:38:53 PM	190.9	1.025	1.97	19.37	-0.05	-0.10
5/8/2024	2:39:56 PM	190.9	1.024	2.09	18.50	-0.04	-0.15
5/8/2024	2:40:59 PM	191.1	1.034	1.16	11.22	0.00	-0.40
5/8/2024	2:42:01 PM	190.9	1.029	1.07	4.03	0.00	-0.15
5/8/2024	2:43:04 PM	190.8	1.027	0.52	1.46	0.00	-0.14
5/8/2024	2:44:07 PM	190.8	1.026	0.23	0.75	0.00	-0.02
5/8/2024	2:45:10 PM	190.8	1.026	0.14	0.35	0.00	-0.05
5/8/2024	2:46:13 PM	190.7	1.026	-0.05	0.15	0.00	0.00
5/8/2024	2:47:16 PM	190.7	1.026	0.08	0.13	0.00	0.05
5/8/2024	2:48:18 PM	190.7	1.026	-0.02	0.15	0.00	-0.01
5/8/2024	2:49:21 PM	190.7	1.026	0.00	0.18	0.00	0.00
5/8/2024	2:50:24 PM	190.8	1.020	1.85	9.12	-0.05	-0.03
5/8/2024	2:51:27 PM	190.7	1.021	2.53	14.85	-0.04	-0.05
5/8/2024	2:52:30 PM	190.7	1.023	2.58	15.79	-0.05	-0.13
5/8/2024	2:53:33 PM	190.9	1.026	1.95	19.58	-0.05	-0.06
5/8/2024	2:54:35 PM	191.0	1.026	2.02	19.99	-0.05	-0.12
5/8/2024	2:55:39 PM	191.0	1.025	2.16	18.71	-0.04	-0.02
5/8/2024	2:56:41 PM	191.0	1.025	2.07	18.61	-0.05	-0.09
5/8/2024	2:57:44 PM	191.0	1.025	2.01	18.22	-0.05	-0.09
5/8/2024	2:58:47 PM	191.0	1.025	1.48	19.01	-0.05	-0.15
5/8/2024	2:59:50 PM	190.9	1.025	1.40	19.43	-0.05	-0.09
5/8/2024	3:00:53 PM	191.0	1.024	1.68	19.53	-0.05	-0.15
5/8/2024	3:01:55 PM	190.9	1.025	1.88	18.74	-0.04	-0.12
5/8/2024	3:02:58 PM	190.9	1.025	1.93	18.54	-0.05	-0.01
5/8/2024	3:04:01 PM	191.0	1.025	2.05	17.55	-0.05	-0.08
5/8/2024	3:05:04 PM	190.8	1.024	2.06	18.45	-0.05	-0.08
5/8/2024	3:06:07 PM	191.0	1.025	1.99	19.80	-0.04	-0.12
5/8/2024	3:07:09 PM	191.0	1.025	2.05	19.01	-0.05	0.02
5/8/2024	3:08:12 PM	191.0	1.024	2.11	18.67	-0.05	-0.05
5/8/2024	3:09:15 PM	191.0	1.025	1.98	20.11	-0.05	-0.08
5/8/2024	3:10:18 PM	191.0	1.025	2.02	19.62	-0.04	-0.11
5/8/2024	3:11:21 PM	191.0	1.025	2.05	18.46	-0.05	-0.06
5/8/2024	3:12:24 PM	190.9	1.025	2.03	18.67	-0.05	-0.07
5/8/2024	3:13:26 PM	190.9	1.024	2.05	19.28	-0.05	-0.05
5/8/2024	3:14:29 PM	191.0	1.025	2.02	19.64	-0.05	-0.05
5/8/2024	3:15:32 PM	190.9	1.025	2.02	19.06	-0.05	-0.04
5/8/2024	3:16:35 PM	190.9	1.025	2.09	18.77	-0.05	-0.08
5/8/2024	3:17:38 PM	190.9	1.025	2.02	19.51	-0.05	-0.04
5/8/2024	3:18:41 PM	190.9	1.025	2.06	19.97	-0.06	-0.13
5/8/2024	3:19:43 PM	191.0	1.025	2.09	18.53	-0.05	-0.04
5/8/2024	3:20:46 PM	190.9	1.025	2.06	19.10	-0.05	-0.12
5/8/2024	3:21:49 PM	191.0	1.024	2.03	18.46	-0.05	-0.07
5/8/2024	3:22:52 PM	190.9	1.024	2.07	19.78	-0.06	0.29
5/8/2024	3:23:55 PM	191.0	1.025	2.05	19.20	-0.04	0.03
5/8/2024	3:24:58 PM	190.9	1.024	2.05	18.37	-0.05	-0.04

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/8/2024	3:26:00 PM	191.0	1.025	2.02	19.91	-0.05	-0.07
5/8/2024	3:27:03 PM	190.9	1.024	2.06	18.73	-0.05	-0.06
5/8/2024	3:28:06 PM	190.9	1.025	2.00	18.95	-0.05	0.00
5/8/2024	3:29:09 PM	191.0	1.025	2.00	19.11	-0.05	-0.03
5/8/2024	3:30:12 PM	190.9	1.025	1.99	19.78	-0.05	-0.03
5/8/2024	3:31:15 PM	191.0	1.024	2.03	18.11	-0.05	-0.02
5/8/2024	3:32:18 PM	191.0	1.024	2.04	19.29	-0.05	-0.09
5/8/2024	3:33:20 PM	191.0	1.024	2.10	18.84	-0.05	-0.12
5/8/2024	3:34:23 PM	191.0	1.024	2.04	19.05	-0.05	-0.08
5/8/2024	3:35:26 PM	191.0	1.025	2.02	18.67	-0.05	-0.06
5/8/2024	3:36:29 PM	191.0	1.025	2.06	19.66	-0.05	-0.10
5/8/2024	3:37:32 PM	190.9	1.024	2.07	18.26	-0.05	-0.03
5/8/2024	3:38:34 PM	190.9	1.024	2.12	18.97	-0.05	-0.09
5/8/2024	3:39:37 PM	190.9	1.025	2.06	19.15	-0.05	-0.10
5/8/2024	3:40:40 PM	190.8	1.025	2.06	18.63	-0.05	-0.01
5/8/2024	3:41:43 PM	190.8	1.025	2.05	18.26	-0.05	-0.05
5/8/2024	3:42:46 PM	190.9	1.024	2.05	18.38	-0.05	-0.11
5/8/2024	3:43:49 PM	190.8	1.023	2.02	19.19	-0.05	-0.05
5/8/2024	3:44:51 PM	190.9	1.025	2.02	19.57	-0.05	-0.04
5/8/2024	3:45:54 PM	190.9	1.025	2.03	18.61	-0.05	0.04
5/8/2024	3:46:57 PM	190.8	1.024	1.94	19.48	-0.05	-0.07
5/8/2024	3:48:00 PM	190.9	1.023	1.95	19.36	-0.05	-0.02
5/8/2024	3:49:03 PM	191.0	1.024	2.05	20.28	-0.05	-0.07
5/8/2024	3:50:06 PM	191.0	1.024	2.04	19.10	-0.05	-0.01
5/8/2024	3:51:08 PM	190.9	1.025	2.07	19.87	-0.05	-0.04
5/8/2024	3:52:11 PM	191.0	1.025	2.00	19.50	-0.05	-0.02
5/8/2024	3:53:14 PM	191.0	1.024	2.04	19.21	-0.05	-0.08
5/8/2024	3:54:17 PM	190.9	1.024	2.03	18.91	-0.05	-0.04
5/8/2024	3:55:20 PM	190.9	1.024	2.07	19.64	-0.05	-0.06
5/8/2024	3:56:23 PM	191.0	1.025	2.03	18.63	-0.03	-0.20
5/8/2024	3:57:25 PM	190.9	1.032	1.22	9.87	0.00	-0.31
5/8/2024	3:58:29 PM	190.8	1.028	1.13	3.64	0.00	-0.12
5/8/2024	3:59:31 PM	190.8	1.026	0.60	1.50	0.00	-0.02
5/8/2024	4:00:34 PM	190.8	1.025	0.37	1.03	-0.01	0.00
5/8/2024	4:01:37 PM	190.7	1.025	-0.02	0.22	0.00	-0.05
5/8/2024	4:02:40 PM	190.7	1.025	0.06	0.09	0.00	0.00
5/8/2024	4:03:43 PM	190.7	1.025	-0.01	0.05	0.00	-0.02
5/8/2024	4:04:45 PM	190.7	1.020	1.61	6.28	-0.04	0.18
5/8/2024	4:05:48 PM	190.7	1.018	2.01	13.64	-0.05	0.01
5/8/2024	4:06:51 PM	190.7	1.020	2.11	14.94	-0.05	-0.03
5/8/2024	4:07:54 PM	190.7	1.022	1.92	18.46	-0.04	-0.08
5/8/2024	4:08:57 PM	190.8	1.022	1.93	19.83	-0.05	-0.04
5/8/2024	4:09:59 PM	190.8	1.023	2.00	19.18	-0.05	0.01
5/8/2024	4:11:03 PM	190.9	1.023	2.00	19.84	-0.05	-0.14
5/8/2024	4:12:05 PM	191.1	1.023	1.98	19.42	-0.05	-0.12
5/8/2024	4:13:08 PM	190.9	1.022	2.08	18.93	-0.05	-0.01
5/8/2024	4:14:11 PM	191.0	1.021	2.02	17.86	-0.05	-0.10
5/8/2024	4:15:14 PM	190.9	1.022	2.03	19.25	-0.05	0.00
5/8/2024	4:16:16 PM	190.9	1.022	2.00	19.93	-0.05	-0.16
5/8/2024	4:17:19 PM	190.9	1.023	2.04	19.50	-0.05	0.02
5/8/2024	4:18:22 PM	190.9	1.023	2.00	19.52	-0.05	-0.04
5/8/2024	4:19:25 PM	190.8	1.022	2.05	18.42	-0.05	0.03
5/8/2024	4:20:28 PM	190.8	1.022	1.95	19.77	-0.05	0.00
5/8/2024	4:21:31 PM	191.0	1.022	1.94	20.27	-0.05	-0.04
5/8/2024	4:22:34 PM	190.9	1.023	2.04	19.02	-0.05	-0.07
5/8/2024	4:23:37 PM	190.9	1.022	1.92	19.84	-0.05	-0.02

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No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/8/2024	4:24:39 PM	190.9	1.022	2.07	19.10	-0.05	0.01
5/8/2024	4:25:42 PM	190.9	1.023	1.98	19.72	-0.05	0.02
5/8/2024	4:26:45 PM	190.9	1.022	2.04	19.54	-0.05	0.01
5/8/2024	4:27:48 PM	191.0	1.023	2.03	20.10	-0.05	-0.11
5/8/2024	4:28:51 PM	190.9	1.023	1.35	18.92	-0.05	-0.11
5/8/2024	4:29:53 PM	191.0	1.022	1.63	19.15	-0.05	-0.16
5/8/2024	4:30:56 PM	190.9	1.022	1.74	19.00	-0.04	-0.11
5/8/2024	4:31:59 PM	190.9	1.022	1.81	19.74	-0.04	-0.10
5/8/2024	4:33:02 PM	190.9	1.022	1.99	19.25	-0.05	-0.10
5/8/2024	4:34:05 PM	190.9	1.022	1.95	20.07	-0.05	-0.04
5/8/2024	4:35:08 PM	191.0	1.023	2.04	20.34	-0.05	-0.10
5/8/2024	4:36:10 PM	191.0	1.023	2.04	19.38	-0.04	-0.08
5/8/2024	4:37:13 PM	191.0	1.021	2.08	18.58	-0.05	-0.09
5/8/2024	4:38:16 PM	191.0	1.022	1.97	22.25	-0.05	-0.01
5/8/2024	4:39:19 PM	191.0	1.023	2.12	20.43	-0.05	-0.03
5/8/2024	4:40:22 PM	191.0	1.023	1.96	19.64	-0.04	-0.16
5/8/2024	4:41:25 PM	191.0	1.022	2.08	18.33	-0.05	-0.10
5/8/2024	4:42:27 PM	190.9	1.022	2.03	19.32	-0.05	0.01
5/8/2024	4:43:30 PM	191.0	1.022	2.02	18.23	-0.05	-0.04
5/8/2024	4:44:33 PM	190.9	1.022	2.00	19.80	-0.05	0.01
5/8/2024	4:45:36 PM	191.0	1.022	2.06	19.66	-0.05	-0.02
5/8/2024	4:46:39 PM	191.0	1.022	1.99	19.18	-0.05	-0.05
5/8/2024	4:47:42 PM	191.0	1.022	1.99	19.44	-0.05	-0.01
5/8/2024	4:48:44 PM	191.2	1.022	2.07	19.62	-0.05	-0.01
5/8/2024	4:49:47 PM	190.9	1.023	2.21	18.62	-0.05	-0.12
5/8/2024	4:50:50 PM	191.0	1.022	2.07	18.66	-0.05	-0.01
5/8/2024	4:51:53 PM	191.0	1.023	1.98	20.39	-0.06	0.02
5/8/2024	4:52:56 PM	191.0	1.022	2.07	18.23	-0.05	-0.02
5/8/2024	4:53:59 PM	191.0	1.023	2.11	19.40	-0.05	0.03
5/8/2024	4:55:01 PM	191.0	1.022	2.04	18.87	-0.05	-0.10
5/8/2024	4:56:04 PM	191.1	1.023	2.00	19.37	-0.05	-0.02
5/8/2024	4:57:07 PM	191.0	1.022	2.07	18.34	-0.05	0.01
5/8/2024	4:58:10 PM	191.0	1.023	2.01	20.26	-0.05	0.07
5/8/2024	4:59:13 PM	191.1	1.022	1.98	18.21	-0.05	0.00
5/8/2024	5:00:16 PM	190.9	1.022	2.07	17.85	-0.05	-0.01
5/8/2024	5:01:18 PM	190.9	1.023	2.02	19.70	-0.05	-0.11
5/8/2024	5:02:21 PM	190.9	1.022	1.98	19.75	-0.05	-0.10
5/8/2024	5:03:24 PM	191.0	1.022	2.03	19.19	-0.05	-0.02
5/8/2024	5:04:27 PM	190.9	1.023	2.02	18.76	-0.05	-0.06
5/8/2024	5:05:30 PM	191.0	1.023	1.95	19.68	-0.04	-0.06
5/8/2024	5:06:33 PM	191.0	1.022	2.03	19.33	-0.05	0.03
5/8/2024	5:07:35 PM	191.0	1.022	2.04	19.37	-0.05	-0.04
5/8/2024	5:08:38 PM	191.0	1.022	1.92	19.88	-0.05	0.02
5/8/2024	5:09:41 PM	191.0	1.022	2.02	19.03	-0.05	-0.05
5/8/2024	5:10:44 PM	191.0	1.023	2.05	19.86	-0.05	-0.02
5/8/2024	5:11:47 PM	191.0	1.022	2.01	19.12	-0.05	0.01
5/8/2024	5:12:50 PM	191.1	1.022	2.06	18.51	-0.05	-0.06
5/8/2024	5:13:52 PM	191.0	1.022	1.99	20.06	-0.05	0.06
5/8/2024	5:14:55 PM	191.0	1.023	2.04	19.70	-0.04	0.02
5/8/2024	5:15:58 PM	191.0	1.022	1.99	18.46	-0.05	0.00
5/8/2024	5:17:01 PM	191.1	1.023	1.91	20.39	-0.05	0.00
5/8/2024	5:18:04 PM	191.0	1.022	1.94	18.51	-0.05	0.02
5/8/2024	5:19:07 PM	191.0	1.023	1.92	19.80	-0.04	-0.01
5/8/2024	5:20:09 PM	191.1	1.022	2.11	19.44	-0.05	0.01
5/8/2024	5:21:13 PM	191.1	1.022	2.01	18.46	-0.05	-0.05
5/8/2024	5:22:15 PM	191.1	1.022	1.97	19.77	-0.05	-0.06

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/8/2024	5:23:18 PM	191.2	1.022	2.03	19.57	-0.05	-0.04
5/8/2024	5:24:21 PM	191.1	1.023	2.02	20.38	-0.05	0.01
5/8/2024	5:25:24 PM	191.1	1.022	2.00	18.93	-0.05	-0.01
5/8/2024	5:26:27 PM	191.0	1.022	1.95	19.35	-0.05	0.03
5/8/2024	5:27:29 PM	191.1	1.023	1.98	19.12	-0.05	-0.04
5/8/2024	5:28:32 PM	191.1	1.022	2.02	19.35	-0.05	0.05
5/8/2024	5:29:35 PM	191.1	1.023	1.91	19.60	-0.05	-0.11
5/8/2024	5:30:38 PM	191.1	1.023	1.93	19.40	-0.04	-0.04
5/8/2024	5:31:41 PM	191.1	1.023	1.88	18.87	-0.05	-0.03
5/8/2024	5:32:43 PM	191.1	1.022	1.97	19.40	-0.05	-0.05
5/8/2024	5:33:46 PM	191.1	1.020	2.00	19.97	-0.04	-0.18
5/8/2024	5:34:49 PM	191.1	1.032	1.05	10.85	0.00	-0.35
5/8/2024	5:35:52 PM	191.0	1.026	1.14	3.70	0.00	-0.13
5/8/2024	5:36:55 PM	190.9	1.023	0.56	1.56	0.00	-0.05
5/8/2024	5:37:58 PM	190.8	1.022	0.15	0.52	0.00	-0.10
5/8/2024	5:39:00 PM	190.8	1.022	0.30	0.78	-0.01	0.07
5/8/2024	5:40:04 PM	190.8	1.022	0.11	0.41	0.00	0.06
5/8/2024	5:41:06 PM	190.8	1.022	0.04	0.36	0.00	0.06
5/8/2024	5:42:09 PM	190.7	1.022	-0.03	0.28	0.00	0.02
5/8/2024	5:43:12 PM	190.7	1.019	0.98	3.18	-0.03	0.10
5/8/2024	5:44:15 PM	190.7	1.015	2.00	13.47	-0.05	0.02
5/8/2024	5:45:17 PM	190.7	1.018	2.45	15.13	-0.05	0.04
5/8/2024	5:46:20 PM	190.8	1.020	1.95	18.76	-0.06	-0.01
5/8/2024	5:47:23 PM	191.0	1.021	1.95	19.93	-0.05	0.07
5/8/2024	5:48:26 PM	191.0	1.022	1.90	19.35	-0.05	-0.01
5/8/2024	5:49:29 PM	191.1	1.022	2.05	19.33	-0.05	-0.10
5/8/2024	5:50:32 PM	191.0	1.022	2.01	19.02	-0.05	-0.05
5/8/2024	5:51:34 PM	191.1	1.021	1.96	18.95	-0.05	-0.07
5/8/2024	5:52:37 PM	191.0	1.021	1.99	19.39	-0.04	-0.09
5/8/2024	5:53:40 PM	191.1	1.022	2.00	19.30	-0.05	-0.10
5/8/2024	5:54:43 PM	191.1	1.021	2.03	18.77	-0.06	0.00
5/8/2024	5:55:46 PM	191.0	1.021	1.90	19.61	-0.05	-0.03
5/8/2024	5:56:49 PM	191.0	1.021	2.01	18.97	-0.05	-0.05
5/8/2024	5:57:52 PM	191.1	1.021	2.13	18.60	-0.05	-0.05
5/8/2024	5:58:55 PM	191.0	1.021	2.01	19.00	-0.04	-0.08
5/8/2024	5:59:57 PM	191.1	1.021	2.03	20.30	-0.05	-0.07
5/8/2024	6:01:00 PM	191.1	1.022	1.97	19.49	-0.05	-0.04
5/8/2024	6:02:03 PM	191.0	1.021	2.03	19.33	-0.05	-0.07
5/8/2024	6:03:06 PM	191.0	1.021	2.02	18.85	-0.05	-0.02
5/8/2024	6:04:09 PM	191.1	1.022	1.98	19.98	-0.05	-0.02
5/8/2024	6:05:11 PM	191.0	1.021	2.00	18.96	-0.05	-0.11
5/8/2024	6:06:14 PM	191.1	1.022	2.02	20.14	-0.05	-0.10
5/8/2024	6:07:17 PM	190.9	1.021	2.02	18.37	-0.05	-0.05
5/8/2024	6:08:20 PM	191.0	1.021	2.03	19.87	-0.05	-0.07
5/8/2024	6:09:23 PM	191.0	1.021	1.99	18.84	-0.05	-0.07
5/8/2024	6:10:26 PM	191.0	1.021	1.98	19.19	-0.05	0.01
5/8/2024	6:11:29 PM	190.9	1.021	2.05	18.60	-0.05	-0.04
5/8/2024	6:12:31 PM	191.0	1.022	1.99	20.57	-0.05	-0.06
5/8/2024	6:13:34 PM	191.1	1.050	2.63	16.01	-0.03	-0.17
5/8/2024	6:14:37 PM	191.2	1.072	1.82	12.15	-0.03	-0.09
5/8/2024	6:15:40 PM	191.2	1.073	1.73	11.22	-0.02	-0.11
5/8/2024	6:16:43 PM	191.3	1.073	1.65	10.53	-0.03	-0.06
5/8/2024	6:17:45 PM	191.3	1.073	0.95	10.33	-0.03	-0.10
5/8/2024	6:18:48 PM	191.3	1.073	0.98	10.50	-0.03	-0.10
5/8/2024	6:19:51 PM	191.2	1.074	0.94	10.64	-0.03	-0.06
5/8/2024	6:20:54 PM	191.2	1.074	1.00	9.88	-0.03	-0.10

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/8/2024	6:21:57 PM	191.2	1.075	1.03	9.99	-0.03	-0.13
5/8/2024	6:22:59 PM	191.2	1.041	1.54	5.86	-0.01	-0.08
5/8/2024	6:24:02 PM	191.0	1.013	0.39	0.95	0.00	-0.09
5/8/2024	6:25:05 PM	190.9	1.013	0.03	0.40	0.00	-0.06
5/8/2024	6:26:08 PM	190.8	1.014	0.06	0.20	0.00	0.02
5/8/2024	6:27:11 PM	190.8	1.014	0.00	0.08	0.00	-0.07
5/8/2024	6:28:14 PM	190.7	1.014	-0.06	0.04	0.00	-0.01
5/8/2024	6:29:16 PM	190.7	1.014	-0.05	0.02	0.00	-0.14
5/8/2024	6:30:19 PM	190.7	1.015	0.00	0.02	0.00	0.00
5/8/2024	6:31:22 PM	190.8	1.015	0.04	0.02	0.00	0.03
5/8/2024	6:32:25 PM	190.8	1.015	0.01	0.01	0.00	-0.06
5/8/2024	6:33:28 PM	190.8	1.016	-0.01	0.01	0.00	-0.06
5/8/2024	6:35:45 PM	190.7	1.016	0.00	0.00	0.00	0.00
5/8/2024	6:36:54 PM	190.7	1.016	-0.05	0.00	0.00	0.02
5/8/2024	6:37:56 PM	190.7	1.016	-0.01	0.00	0.00	-0.06
5/8/2024	6:38:59 PM	190.7	1.016	-0.02	0.00	0.00	0.03
5/8/2024	6:40:02 PM	190.7	1.016	-0.07	0.00	0.00	0.04
5/8/2024	6:41:05 PM	190.7	0.997	0.03	0.04	-0.05	73.76
5/8/2024	6:42:08 PM	190.7	0.998	-0.02	0.00	-0.03	97.70
5/8/2024	6:43:10 PM	190.7	0.997	-0.11	-0.01	-0.03	97.97
5/8/2024	6:44:13 PM	190.7	0.997	-0.07	-0.01	-0.03	97.84
5/8/2024	6:45:16 PM	190.7	0.996	-0.06	-0.01	-0.03	97.83
5/8/2024	6:46:19 PM	190.7	0.996	0.02	-0.01	-0.02	97.75
5/8/2024	6:47:22 PM	190.7	0.996	-0.01	-0.01	-0.03	97.75
5/8/2024	6:48:25 PM	190.7	0.996	-0.03	-0.01	-0.03	97.84
5/8/2024	6:49:28 PM	190.6	0.996	0.02	-0.01	-0.03	97.81
5/8/2024	6:50:31 PM	190.6	0.996	-0.03	-0.01	-0.03	97.71
5/8/2024	6:51:33 PM	190.6	0.996	-0.02	-0.01	-0.03	97.73
5/8/2024	6:52:36 PM	190.6	0.996	-0.08	-0.01	-0.03	97.67
5/8/2024	6:53:39 PM	190.6	1.005	-0.03	0.00	-0.04	28.49
5/8/2024	6:54:42 PM	190.7	1.015	-0.10	-0.01	0.00	-0.01
5/8/2024	6:55:45 PM	190.7	1.016	-0.03	-0.01	0.00	0.00
5/8/2024	6:56:47 PM	190.7	1.016	-0.10	-0.01	0.00	0.00
5/8/2024	6:57:50 PM	190.7	1.016	-0.07	-0.01	0.00	0.01
5/8/2024	6:58:53 PM	190.7	1.003	-0.08	-0.01	0.00	0.01
5/9/2024	7:30:07 AM	189.6	1.028	-0.08	-0.02	0.01	0.01
5/9/2024	7:31:10 AM	190.0	1.028	-0.16	-0.02	0.01	-0.01
5/9/2024	7:32:13 AM	190.2	1.028	-0.17	-0.02	0.00	-0.09
5/9/2024	7:33:15 AM	190.3	1.029	-0.08	-0.01	0.00	-0.11
5/9/2024	7:34:18 AM	190.4	1.029	-0.09	-0.02	0.00	-0.02
5/9/2024	7:35:21 AM	190.5	1.029	-0.07	-0.02	0.00	-0.04
5/9/2024	7:36:24 AM	190.5	1.029	-0.05	-0.02	0.00	-0.10
5/9/2024	7:37:27 AM	190.5	1.029	-0.14	-0.02	0.00	-0.05
5/9/2024	7:38:30 AM	190.5	1.029	-0.09	-0.02	0.00	-0.01
5/9/2024	7:39:33 AM	190.5	1.029	-0.12	-0.02	0.00	-0.04
5/9/2024	7:41:49 AM	190.6	1.029	0.00	0.00	0.00	0.00
5/9/2024	7:42:58 AM	190.6	1.029	-0.02	0.00	0.00	-0.01
5/9/2024	7:44:01 AM	190.6	1.029	-0.08	0.00	0.00	-0.06
5/9/2024	7:45:04 AM	190.6	1.029	-0.03	0.00	0.00	0.01
5/9/2024	7:46:07 AM	190.5	1.008	-0.10	0.04	-0.05	57.59
5/9/2024	7:47:10 AM	190.5	1.002	-0.10	0.01	-0.02	97.65
5/9/2024	7:48:12 AM	190.4	1.000	-0.05	0.00	-0.03	97.60
5/9/2024	7:49:15 AM	190.5	0.998	-0.08	0.00	-0.03	97.33
5/9/2024	7:50:18 AM	190.4	0.995	-0.10	0.00	-0.03	97.44
5/9/2024	7:51:21 AM	190.4	0.987	-0.05	0.01	-0.03	97.23

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/9/2024	7:52:24 AM	190.4	0.986	-0.02	0.01	-0.03	97.15
5/9/2024	7:53:27 AM	190.4	0.991	-0.06	0.01	-0.04	85.18
5/9/2024	7:54:29 AM	190.4	1.026	-0.04	0.00	0.00	0.06
5/9/2024	7:55:32 AM	190.4	1.026	-0.08	0.00	0.00	0.03
5/9/2024	7:56:35 AM	190.5	1.027	-0.08	0.00	0.00	0.00
5/9/2024	7:57:38 AM	190.5	1.027	-0.06	0.00	0.00	0.04
5/9/2024	7:58:41 AM	190.5	1.031	0.85	1.51	-0.01	-0.08
5/9/2024	7:59:44 AM	190.6	1.020	1.23	4.81	-0.04	0.09
5/9/2024	8:00:47 AM	190.7	1.026	2.37	14.09	-0.03	-0.06
5/9/2024	8:01:49 AM	191.0	1.032	1.63	21.63	-0.04	-0.09
5/9/2024	8:02:52 AM	191.1	1.032	1.74	21.37	-0.04	-0.07
5/9/2024	8:03:55 AM	191.2	1.030	1.89	19.86	-0.04	-0.06
5/9/2024	8:04:58 AM	191.2	1.031	1.87	20.16	-0.04	-0.12
5/9/2024	8:06:01 AM	191.1	1.030	1.81	21.31	-0.04	-0.01
5/9/2024	8:07:03 AM	191.1	1.030	1.89	19.80	-0.04	-0.01
5/9/2024	8:08:06 AM	191.1	1.030	1.93	19.99	-0.05	-0.01
5/9/2024	8:09:09 AM	191.1	1.030	2.05	19.00	-0.05	-0.05
5/9/2024	8:10:12 AM	191.0	1.031	1.95	19.69	-0.03	-0.23
5/9/2024	8:11:15 AM	191.0	1.029	1.98	19.19	-0.04	-0.03
5/9/2024	8:12:18 AM	190.9	1.029	1.97	21.21	-0.05	-0.02
5/9/2024	8:13:20 AM	190.9	1.030	1.93	21.04	-0.05	0.03
5/9/2024	8:14:24 AM	191.0	1.030	1.86	20.31	-0.04	0.03
5/9/2024	8:15:26 AM	191.0	1.030	1.97	20.21	-0.05	0.03
5/9/2024	8:16:29 AM	191.0	1.029	1.97	19.52	-0.05	-0.03
5/9/2024	8:17:32 AM	191.0	1.029	1.88	19.99	-0.04	0.00
5/9/2024	8:18:35 AM	191.0	1.029	1.95	19.08	-0.05	-0.04
5/9/2024	8:19:38 AM	190.9	1.029	2.00	19.20	-0.04	0.03
5/9/2024	8:20:41 AM	190.9	1.029	2.01	19.96	-0.04	0.03
5/9/2024	8:21:43 AM	191.0	1.029	1.87	19.45	-0.04	-0.03
5/9/2024	8:22:46 AM	191.0	1.029	1.93	19.15	-0.04	-0.04
5/9/2024	8:23:49 AM	191.0	1.030	1.99	19.35	-0.04	-0.11
5/9/2024	8:24:52 AM	190.9	1.029	2.04	19.50	-0.05	0.00
5/9/2024	8:25:55 AM	191.0	1.028	2.06	18.49	-0.04	-0.02
5/9/2024	8:26:57 AM	191.0	1.030	2.01	19.80	-0.05	0.03
5/9/2024	8:28:00 AM	191.0	1.029	1.93	19.11	-0.05	0.06
5/9/2024	8:29:03 AM	191.0	1.029	1.99	19.87	-0.04	-0.09
5/9/2024	8:30:06 AM	191.0	1.029	2.02	18.80	-0.04	0.01
5/9/2024	8:31:09 AM	190.9	1.029	1.92	19.76	-0.04	0.00
5/9/2024	8:32:11 AM	190.9	1.030	1.99	18.66	-0.04	0.04
5/9/2024	8:33:14 AM	190.9	1.030	2.00	19.75	-0.04	0.00
5/9/2024	8:34:18 AM	191.0	1.029	1.93	19.17	-0.04	-0.06
5/9/2024	8:35:20 AM	190.9	1.030	2.00	18.70	-0.05	0.07
5/9/2024	8:36:23 AM	190.9	1.029	2.03	19.23	-0.04	-0.07
5/9/2024	8:37:26 AM	191.0	1.029	2.00	19.05	-0.05	-0.01
5/9/2024	8:38:29 AM	191.0	1.029	1.96	19.48	-0.04	-0.03
5/9/2024	8:39:31 AM	190.9	1.030	1.91	19.06	-0.04	-0.02
5/9/2024	8:40:34 AM	190.9	1.029	2.00	18.44	-0.04	0.00
5/9/2024	8:41:37 AM	190.9	1.029	1.96	18.87	-0.05	0.08
5/9/2024	8:42:40 AM	190.9	1.029	2.04	19.41	-0.05	-0.04
5/9/2024	8:43:43 AM	191.0	1.029	1.93	19.17	-0.05	0.15
5/9/2024	8:44:46 AM	190.9	1.029	1.88	18.68	-0.04	0.01
5/9/2024	8:45:48 AM	190.9	1.029	1.93	19.05	-0.04	-0.02
5/9/2024	8:46:51 AM	190.9	1.029	2.00	18.72	-0.04	0.01
5/9/2024	8:47:54 AM	190.9	1.030	1.95	20.54	-0.04	0.08
5/9/2024	8:48:57 AM	191.0	1.029	1.93	18.15	-0.04	0.03
5/9/2024	8:50:00 AM	191.0	1.029	1.96	19.38	-0.04	-0.07

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No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/9/2024	8:51:03 AM	191.0	1.029	1.80	19.38	-0.05	-0.02
5/9/2024	8:52:05 AM	191.0	1.029	1.96	18.13	-0.04	-0.06
5/9/2024	8:53:08 AM	191.0	1.030	1.88	20.13	-0.04	-0.13
5/9/2024	8:54:11 AM	191.0	1.029	1.97	18.44	-0.04	0.03
5/9/2024	8:55:14 AM	191.0	1.029	1.90	18.78	-0.04	0.05
5/9/2024	8:56:17 AM	191.1	1.029	1.88	19.94	-0.03	-0.16
5/9/2024	8:57:20 AM	191.1	1.029	1.95	19.10	-0.04	-0.04
5/9/2024	8:58:22 AM	191.0	1.029	1.87	18.90	-0.04	-0.05
5/9/2024	8:59:25 AM	191.0	1.029	1.82	18.64	-0.04	0.02
5/9/2024	9:00:28 AM	191.0	1.030	1.92	18.56	-0.04	0.00
5/9/2024	9:01:31 AM	191.0	1.029	1.83	18.57	-0.05	-0.14
5/9/2024	9:02:34 AM	191.0	1.030	1.84	20.75	-0.04	-0.05
5/9/2024	9:03:37 AM	191.1	1.028	2.00	18.66	-0.04	-0.04
5/9/2024	9:04:39 AM	191.0	1.030	1.93	19.34	-0.04	0.04
5/9/2024	9:05:42 AM	191.1	1.030	1.85	19.21	-0.04	0.05
5/9/2024	9:06:45 AM	191.0	1.029	2.00	18.34	-0.04	-0.01
5/9/2024	9:07:48 AM	191.0	1.030	1.79	20.29	-0.04	-0.02
5/9/2024	9:08:51 AM	191.0	1.029	1.91	18.54	-0.04	-0.03
5/9/2024	9:09:54 AM	191.0	1.029	1.82	20.55	-0.04	-0.10
5/9/2024	9:10:56 AM	191.1	1.029	1.89	20.16	-0.04	-0.11
5/9/2024	9:12:00 AM	191.1	1.030	1.89	20.91	-0.05	-0.11
5/9/2024	9:13:02 AM	191.2	1.030	1.85	19.91	-0.04	-0.06
5/9/2024	9:14:05 AM	191.1	1.030	1.87	19.79	-0.04	-0.08
5/9/2024	9:15:08 AM	191.1	1.029	1.89	19.58	-0.04	-0.01
5/9/2024	9:16:11 AM	191.1	1.029	1.87	19.41	-0.04	-0.03
5/9/2024	9:17:14 AM	191.1	1.032	1.85	17.36	-0.01	-0.31
5/9/2024	9:18:17 AM	191.0	1.036	1.51	6.96	0.00	-0.16
5/9/2024	9:19:19 AM	190.9	1.032	0.95	3.27	0.00	-0.07
5/9/2024	9:20:22 AM	190.8	1.030	0.60	1.61	0.01	-0.05
5/9/2024	9:21:25 AM	190.8	1.028	0.38	1.13	0.00	0.04
5/9/2024	9:22:28 AM	190.7	1.028	0.03	0.46	0.00	0.03
5/9/2024	9:23:31 AM	190.7	1.028	0.05	0.32	0.00	0.01
5/9/2024	9:24:34 AM	190.7	1.027	0.41	1.01	-0.01	0.06
5/9/2024	9:25:36 AM	190.7	1.019	1.24	9.41	-0.04	0.03
5/9/2024	9:26:39 AM	190.6	1.023	2.43	14.45	-0.05	-0.03
5/9/2024	9:27:42 AM	190.9	1.025	1.95	19.32	-0.04	-0.12
5/9/2024	9:28:45 AM	191.0	1.027	2.07	19.58	-0.04	-0.20
5/9/2024	9:29:48 AM	191.0	1.026	2.03	18.29	-0.04	-0.12
5/9/2024	9:30:50 AM	191.1	1.029	1.94	20.39	-0.04	-0.18
5/9/2024	9:31:53 AM	191.0	1.027	1.88	18.99	-0.04	-0.04
5/9/2024	9:32:56 AM	191.0	1.026	2.04	17.30	-0.04	-0.07
5/9/2024	9:33:59 AM	191.0	1.027	1.92	20.73	-0.04	-0.12
5/9/2024	9:35:02 AM	191.0	1.027	1.94	19.50	-0.04	-0.01
5/9/2024	9:36:05 AM	191.0	1.027	1.90	19.25	-0.04	-0.04
5/9/2024	9:37:07 AM	191.0	1.027	1.88	19.98	-0.04	-0.04
5/9/2024	9:38:10 AM	191.1	1.027	1.93	19.27	-0.04	-0.04
5/9/2024	9:39:13 AM	191.0	1.026	1.97	18.94	-0.04	-0.05
5/9/2024	9:40:16 AM	191.0	1.027	1.91	21.26	-0.05	-0.11
5/9/2024	9:41:19 AM	191.1	1.027	1.92	20.22	-0.04	-0.05
5/9/2024	9:42:22 AM	191.1	1.027	1.92	20.32	-0.04	-0.04
5/9/2024	9:43:25 AM	191.0	1.027	1.89	19.57	-0.04	-0.04
5/9/2024	9:44:27 AM	191.1	1.027	1.87	21.64	-0.04	-0.06
5/9/2024	9:45:30 AM	191.2	1.027	1.90	18.95	-0.03	-0.07
5/9/2024	9:46:33 AM	191.0	1.026	1.88	19.74	-0.04	-0.06
5/9/2024	9:47:36 AM	191.1	1.027	1.93	19.19	-0.04	-0.04
5/9/2024	9:48:39 AM	191.0	1.027	1.93	20.35	-0.04	-0.09

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No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/9/2024	9:49:41 AM	191.1	1.027	1.94	20.16	-0.04	-0.11
5/9/2024	9:50:45 AM	191.1	1.027	1.76	20.81	-0.04	-0.09
5/9/2024	9:51:47 AM	191.0	1.027	1.83	19.42	-0.04	0.03
5/9/2024	9:52:50 AM	191.0	1.027	1.92	20.24	-0.04	-0.16
5/9/2024	9:53:53 AM	191.1	1.028	1.83	21.22	-0.04	-0.14
5/9/2024	9:54:56 AM	191.1	1.027	1.84	20.08	-0.03	-0.06
5/9/2024	9:55:59 AM	191.1	1.028	1.92	21.26	-0.04	-0.09
5/9/2024	9:57:01 AM	191.1	1.027	1.99	19.56	-0.04	0.02
5/9/2024	9:58:04 AM	191.1	1.026	1.96	19.27	-0.04	-0.05
5/9/2024	9:59:07 AM	191.1	1.027	1.99	20.34	-0.04	-0.22
5/9/2024	10:00:10 AM	191.0	1.027	1.91	20.81	-0.04	-0.12
5/9/2024	10:01:13 AM	191.1	1.028	1.86	20.21	-0.04	-0.13
5/9/2024	10:02:16 AM	191.1	1.027	1.98	19.43	-0.04	-0.10
5/9/2024	10:03:18 AM	191.0	1.027	1.99	20.02	-0.04	-0.04
5/9/2024	10:04:21 AM	191.1	1.027	1.85	21.89	-0.03	-0.17
5/9/2024	10:05:24 AM	191.1	1.027	1.89	20.17	-0.04	-0.14
5/9/2024	10:06:27 AM	191.1	1.026	1.96	19.48	-0.04	-0.06
5/9/2024	10:07:30 AM	191.1	1.027	1.85	20.85	-0.04	-0.10
5/9/2024	10:08:33 AM	191.1	1.026	1.88	19.88	-0.04	-0.05
5/9/2024	10:09:35 AM	191.1	1.027	2.02	20.28	-0.03	-0.05
5/9/2024	10:10:38 AM	191.1	1.026	1.97	20.22	-0.04	-0.07
5/9/2024	10:11:41 AM	191.1	1.027	1.87	20.75	-0.04	-0.16
5/9/2024	10:12:44 AM	191.1	1.026	1.87	21.01	-0.04	-0.10
5/9/2024	10:13:47 AM	191.1	1.026	1.91	19.42	-0.04	-0.10
5/9/2024	10:14:50 AM	191.0	1.027	1.97	20.47	-0.04	-0.14
5/9/2024	10:15:53 AM	191.1	1.027	1.94	19.83	-0.04	-0.06
5/9/2024	10:16:55 AM	191.1	1.027	1.90	20.37	-0.04	-0.15
5/9/2024	10:17:58 AM	191.0	1.026	2.03	21.06	-0.04	-0.06
5/9/2024	10:19:01 AM	191.1	1.026	1.98	19.97	-0.04	-0.07
5/9/2024	10:20:04 AM	191.1	1.027	1.88	19.90	-0.03	-0.16
5/9/2024	10:21:07 AM	191.1	1.027	1.81	20.99	-0.05	-0.11
5/9/2024	10:22:09 AM	191.2	1.027	1.86	20.11	-0.04	-0.04
5/9/2024	10:23:12 AM	191.2	1.026	1.93	19.51	-0.04	-0.13
5/9/2024	10:24:15 AM	191.2	1.028	1.82	21.84	-0.05	0.04
5/9/2024	10:25:18 AM	191.2	1.027	1.90	19.65	-0.04	-0.14
5/9/2024	10:26:21 AM	191.0	1.027	1.87	19.86	-0.04	-0.09
5/9/2024	10:27:24 AM	191.1	1.027	1.98	19.32	-0.04	-0.08
5/9/2024	10:28:26 AM	191.0	1.026	1.90	21.78	-0.04	-0.12
5/9/2024	10:29:29 AM	191.0	1.037	1.75	12.40	0.00	-0.36
5/9/2024	10:30:32 AM	191.0	1.033	1.26	4.93	0.01	-0.18
5/9/2024	10:31:35 AM	190.9	1.030	0.60	2.02	0.00	-0.09
5/9/2024	10:32:38 AM	190.9	1.028	0.35	1.17	0.00	0.03
5/9/2024	10:33:41 AM	190.7	1.028	0.05	0.48	0.00	0.05
5/9/2024	10:34:43 AM	190.7	1.027	0.03	0.37	0.00	0.05
5/9/2024	10:35:46 AM	190.7	1.026	0.61	1.59	-0.02	0.02
5/9/2024	10:36:49 AM	190.7	1.018	1.22	10.94	-0.04	0.01
5/9/2024	10:37:52 AM	190.7	1.024	2.71	16.48	-0.04	-0.16
5/9/2024	10:38:55 AM	191.1	1.025	2.00	18.43	-0.04	-0.09
5/9/2024	10:39:58 AM	191.2	1.027	1.87	20.32	-0.05	-0.06
5/9/2024	10:41:00 AM	191.1	1.026	2.03	18.17	-0.04	-0.08
5/9/2024	10:42:03 AM	191.0	1.026	2.02	20.69	-0.04	-0.15
5/9/2024	10:43:06 AM	191.1	1.027	2.05	19.56	-0.04	-0.13
5/9/2024	10:44:09 AM	191.1	1.026	2.11	18.15	-0.04	-0.02
5/9/2024	10:45:12 AM	191.1	1.027	1.99	20.23	-0.04	-0.11
5/9/2024	10:46:15 AM	191.1	1.027	2.02	20.22	-0.04	-0.08
5/9/2024	10:47:17 AM	191.1	1.026	2.07	18.89	-0.04	-0.09

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/9/2024	10:48:20 AM	191.1	1.027	2.05	20.28	-0.04	-0.14
5/9/2024	10:49:23 AM	191.1	1.028	1.98	21.99	-0.04	-0.18
5/9/2024	10:50:26 AM	191.1	1.027	1.99	18.22	-0.04	-0.12
5/9/2024	10:51:29 AM	191.0	1.026	2.08	18.21	-0.04	-0.11
5/9/2024	10:52:32 AM	191.1	1.027	1.94	21.15	-0.04	-0.15
5/9/2024	10:53:35 AM	191.1	1.026	2.04	19.18	-0.04	-0.04
5/9/2024	10:54:37 AM	191.1	1.028	1.92	21.59	-0.05	-0.11
5/9/2024	10:55:40 AM	191.2	1.027	2.02	19.75	-0.06	-0.21
5/9/2024	10:56:43 AM	191.2	1.027	2.04	19.70	-0.04	-0.09
5/9/2024	10:57:46 AM	191.2	1.028	2.03	20.01	-0.04	-0.09
5/9/2024	10:58:49 AM	191.1	1.027	2.05	19.40	-0.04	-0.25
5/9/2024	10:59:51 AM	191.2	1.026	2.02	19.10	-0.04	-0.05
5/9/2024	11:00:54 AM	191.2	1.027	1.98	18.85	-0.03	-0.16
5/9/2024	11:01:57 AM	191.1	1.027	2.01	20.98	-0.04	-0.01
5/9/2024	11:03:00 AM	191.2	1.027	2.03	20.35	-0.04	-0.08
5/9/2024	11:04:03 AM	191.1	1.026	2.04	18.85	-0.04	-0.04
5/9/2024	11:05:06 AM	191.1	1.026	1.95	19.16	-0.04	-0.04
5/9/2024	11:06:08 AM	191.2	1.027	1.96	20.19	-0.04	-0.09
5/9/2024	11:07:11 AM	191.1	1.026	2.11	19.12	-0.04	-0.08
5/9/2024	11:08:14 AM	191.1	1.027	1.98	20.05	-0.04	-0.08
5/9/2024	11:09:17 AM	191.1	1.027	1.87	20.75	-0.04	0.00
5/9/2024	11:10:20 AM	191.1	1.027	1.98	19.99	-0.04	-0.06
5/9/2024	11:11:23 AM	191.1	1.026	1.96	19.55	-0.04	-0.11
5/9/2024	11:12:26 AM	191.0	1.026	1.96	19.16	-0.04	-0.04
5/9/2024	11:13:28 AM	191.1	1.027	1.99	20.42	-0.04	-0.07
5/9/2024	11:14:31 AM	191.1	1.027	1.98	20.15	-0.04	-0.07
5/9/2024	11:15:34 AM	191.1	1.026	1.93	19.58	-0.04	-0.06
5/9/2024	11:16:37 AM	191.0	1.027	1.91	19.65	-0.04	-0.10
5/9/2024	11:17:40 AM	191.1	1.027	1.96	20.64	-0.04	0.04
5/9/2024	11:18:42 AM	191.1	1.026	1.92	20.12	-0.04	-0.08
5/9/2024	11:19:45 AM	191.1	1.027	2.06	20.95	-0.04	-0.14
5/9/2024	11:20:48 AM	191.1	1.026	1.97	19.56	-0.04	-0.08
5/9/2024	11:21:51 AM	191.0	1.026	1.95	19.92	-0.04	-0.08
5/9/2024	11:22:54 AM	191.1	1.026	1.95	20.29	-0.03	-0.08
5/9/2024	11:23:57 AM	191.1	1.027	1.99	19.76	-0.04	-0.05
5/9/2024	11:25:00 AM	191.0	1.026	1.96	19.33	-0.04	-0.07
5/9/2024	11:26:02 AM	191.0	1.027	2.00	19.93	-0.04	-0.12
5/9/2024	11:27:05 AM	191.0	1.026	1.93	20.48	-0.04	-0.14
5/9/2024	11:28:08 AM	191.1	1.026	1.90	20.16	-0.04	-0.03
5/9/2024	11:29:11 AM	191.0	1.026	1.94	19.10	-0.03	-0.17
5/9/2024	11:30:14 AM	191.1	1.026	1.94	21.17	-0.04	-0.01
5/9/2024	11:31:17 AM	191.1	1.026	2.03	20.66	-0.04	-0.07
5/9/2024	11:32:19 AM	191.1	1.027	2.02	21.48	-0.04	-0.08
5/9/2024	11:33:22 AM	191.1	1.027	1.53	20.16	-0.04	-0.05
5/9/2024	11:34:25 AM	191.1	1.026	1.44	19.62	-0.04	-0.01
5/9/2024	11:35:28 AM	191.2	1.027	1.56	20.37	-0.04	-0.21
5/9/2024	11:36:31 AM	191.2	1.027	1.82	20.20	-0.04	-0.06
5/9/2024	11:37:34 AM	191.1	1.026	2.01	19.48	-0.03	-0.06
5/9/2024	11:38:36 AM	191.2	1.027	1.95	21.68	-0.04	-0.10
5/9/2024	11:39:39 AM	191.2	1.027	2.01	19.70	-0.04	-0.03
5/9/2024	11:40:42 AM	191.1	1.026	2.06	19.84	-0.04	-0.09
5/9/2024	11:41:45 AM	191.1	1.027	2.08	20.96	-0.04	-0.14
5/9/2024	11:42:48 AM	191.1	1.028	2.03	20.20	-0.05	-0.02
5/9/2024	11:43:51 AM	191.1	1.031	2.05	17.68	-0.01	-0.23
5/9/2024	11:44:53 AM	191.1	1.034	1.69	7.84	0.00	-0.20
5/9/2024	11:45:56 AM	191.0	1.031	1.06	3.41	0.00	-0.07

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/9/2024	11:46:59 AM	190.8	1.029	0.59	1.58	0.01	-0.06
5/9/2024	11:48:02 AM	190.8	1.028	0.27	0.83	0.00	-0.04
5/9/2024	11:49:05 AM	190.8	1.027	0.19	0.54	0.00	-0.06
5/9/2024	11:50:08 AM	190.8	1.027	-0.03	0.33	0.00	-0.01
5/9/2024	11:51:10 AM	190.8	1.027	0.25	0.58	0.00	0.03
5/9/2024	11:52:13 AM	190.7	1.027	0.32	0.88	0.00	-0.06
5/9/2024	11:53:16 AM	190.7	1.027	0.13	0.42	0.00	-0.02
5/9/2024	11:54:19 AM	190.7	1.027	-0.12	0.09	0.00	0.00
5/9/2024	11:55:22 AM	190.7	1.021	1.78	8.43	-0.04	0.07
5/9/2024	11:56:25 AM	190.7	1.021	2.07	13.54	-0.04	-0.01
5/9/2024	11:57:27 AM	190.8	1.026	2.11	18.35	-0.04	-0.06
5/9/2024	11:58:31 AM	191.1	1.024	2.08	19.46	-0.05	-0.21
5/9/2024	11:59:33 AM	191.1	1.026	2.03	20.66	-0.04	-0.16
5/9/2024	12:00:36 PM	191.2	1.028	1.97	22.31	-0.04	-0.11
5/9/2024	12:01:39 PM	191.2	1.027	2.07	19.48	-0.05	0.03
5/9/2024	12:02:42 PM	191.1	1.026	1.96	18.91	-0.04	-0.06
5/9/2024	12:03:44 PM	191.1	1.026	2.03	19.48	-0.05	-0.10
5/9/2024	12:04:47 PM	191.1	1.027	2.02	20.37	-0.03	-0.12
5/9/2024	12:05:50 PM	191.1	1.026	2.08	18.28	-0.04	-0.09
5/9/2024	12:06:53 PM	191.1	1.027	2.13	19.69	-0.04	-0.12
5/9/2024	12:07:56 PM	191.0	1.026	2.08	20.26	-0.05	-0.04
5/9/2024	12:08:59 PM	191.1	1.027	2.05	20.36	-0.05	-0.02
5/9/2024	12:10:02 PM	191.1	1.026	2.09	18.58	-0.05	-0.01
5/9/2024	12:11:04 PM	191.1	1.027	2.05	21.22	-0.05	-0.08
5/9/2024	12:12:07 PM	191.2	1.026	2.07	17.66	-0.04	-0.05
5/9/2024	12:13:10 PM	191.1	1.027	1.92	22.30	-0.04	-0.08
5/9/2024	12:14:13 PM	191.0	1.026	2.12	18.99	-0.05	-0.05
5/9/2024	12:15:16 PM	191.0	1.026	2.07	19.50	-0.04	-0.08
5/9/2024	12:16:18 PM	191.0	1.027	2.04	20.89	-0.04	-0.14
5/9/2024	12:17:21 PM	191.0	1.027	2.03	20.09	-0.04	-0.17
5/9/2024	12:18:24 PM	191.0	1.025	2.12	18.85	-0.04	-0.05
5/9/2024	12:19:27 PM	191.0	1.026	2.06	19.79	-0.04	-0.10
5/9/2024	12:20:30 PM	191.1	1.028	2.07	20.82	-0.05	-0.15
5/9/2024	12:21:33 PM	191.1	1.026	2.08	19.18	-0.04	-0.01
5/9/2024	12:22:35 PM	191.0	1.025	2.03	18.19	-0.04	-0.03
5/9/2024	12:23:38 PM	191.0	1.027	2.09	21.14	-0.05	-0.05
5/9/2024	12:24:41 PM	191.1	1.027	2.06	20.37	-0.04	-0.06
5/9/2024	12:25:44 PM	191.0	1.025	2.05	18.68	-0.05	0.01
5/9/2024	12:26:47 PM	191.3	1.026	2.01	20.60	-0.05	0.04
5/9/2024	12:27:50 PM	191.2	1.026	2.05	21.31	-0.05	-0.17
5/9/2024	12:28:52 PM	191.1	1.025	2.07	19.05	-0.05	-0.12
5/9/2024	12:29:55 PM	191.1	1.026	2.11	19.31	-0.04	-0.04
5/9/2024	12:30:58 PM	191.1	1.025	2.05	19.68	-0.05	-0.07
5/9/2024	12:32:01 PM	191.2	1.027	2.01	21.42	-0.04	-0.13
5/9/2024	12:33:04 PM	191.2	1.026	2.06	19.06	-0.04	-0.07
5/9/2024	12:34:07 PM	191.1	1.026	2.10	18.10	-0.05	-0.02
5/9/2024	12:35:10 PM	191.2	1.026	2.06	20.04	-0.04	-0.10
5/9/2024	12:36:12 PM	191.2	1.026	2.11	19.11	-0.04	-0.05
5/9/2024	12:37:15 PM	191.2	1.026	1.99	21.61	-0.05	-0.04
5/9/2024	12:38:18 PM	191.2	1.027	2.07	20.77	-0.05	-0.19
5/9/2024	12:39:21 PM	191.2	1.025	2.74	17.02	-0.04	-0.04
5/9/2024	12:40:24 PM	191.1	1.026	1.96	21.56	-0.04	-0.10
5/9/2024	12:41:26 PM	191.2	1.026	2.07	19.93	-0.04	-0.09
5/9/2024	12:42:30 PM	191.1	1.025	2.08	18.07	-0.05	-0.04
5/9/2024	12:43:32 PM	191.1	1.026	1.90	22.75	-0.04	-0.01
5/9/2024	12:44:35 PM	191.1	1.025	2.15	18.53	-0.04	-0.03

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/9/2024	12:45:38 PM	191.0	1.025	2.12	20.17	-0.04	-0.09
5/9/2024	12:46:41 PM	191.0	1.025	2.06	19.95	-0.04	-0.11
5/9/2024	12:47:44 PM	191.1	1.027	2.04	21.10	-0.04	-0.04
5/9/2024	12:48:46 PM	191.1	1.026	2.04	20.32	-0.05	-0.04
5/9/2024	12:49:49 PM	191.0	1.025	2.13	19.05	-0.04	-0.07
5/9/2024	12:50:52 PM	191.0	1.025	2.13	20.05	-0.04	-0.06
5/9/2024	12:51:55 PM	191.1	1.025	2.14	18.81	-0.05	-0.01
5/9/2024	12:52:58 PM	191.1	1.026	2.07	19.87	-0.04	-0.20
5/9/2024	12:54:00 PM	191.1	1.026	2.16	19.66	-0.04	-0.09
5/9/2024	12:55:03 PM	191.0	1.026	2.05	19.73	-0.04	-0.08
5/9/2024	12:56:06 PM	191.0	1.025	2.08	19.45	-0.04	-0.05
5/9/2024	12:57:09 PM	191.0	1.026	2.04	19.44	-0.03	-0.34
5/9/2024	12:58:12 PM	191.0	1.025	1.97	20.64	-0.04	-0.07
5/9/2024	12:59:15 PM	191.0	1.025	2.04	19.41	-0.04	-0.13
5/9/2024	1:00:18 PM	191.2	1.025	2.09	20.71	-0.05	0.01
5/9/2024	1:01:21 PM	191.0	1.025	2.13	19.09	-0.04	-0.06
5/9/2024	1:02:23 PM	191.0	1.028	2.05	20.44	-0.04	-0.16
5/9/2024	1:03:26 PM	191.0	1.034	1.62	7.41	0.00	-0.18
5/9/2024	1:04:29 PM	190.9	1.028	0.87	2.43	0.00	-0.04
5/9/2024	1:05:32 PM	190.9	1.027	0.39	1.02	0.00	-0.02
5/9/2024	1:06:35 PM	190.8	1.026	0.11	0.51	0.00	0.00
5/9/2024	1:07:37 PM	190.8	1.026	0.01	0.25	0.00	0.04
5/9/2024	1:08:40 PM	190.8	1.026	-0.04	0.16	0.00	0.03
5/9/2024	1:09:43 PM	190.7	1.026	-0.06	0.06	0.00	0.06
5/9/2024	1:10:46 PM	190.7	1.026	0.12	0.40	0.00	0.05
5/9/2024	1:11:49 PM	190.7	1.026	0.01	0.22	0.00	0.02
5/9/2024	1:12:52 PM	190.8	1.026	0.00	0.20	0.00	0.00
5/9/2024	1:13:54 PM	190.8	1.026	-0.04	0.19	0.00	0.06
5/9/2024	1:14:57 PM	190.8	1.026	-0.02	0.20	0.00	0.04
5/9/2024	1:16:00 PM	190.8	1.026	0.08	0.23	0.00	0.06
5/9/2024	1:17:03 PM	190.7	1.025	0.03	0.27	0.00	0.08
5/9/2024	1:18:06 PM	190.7	1.025	0.03	0.28	0.00	0.05
5/9/2024	1:19:09 PM	190.7	1.012	0.10	0.58	0.00	0.03
5/9/2024	1:20:11 PM	190.7	1.016	-0.07	0.11	0.00	-0.01
5/9/2024	1:21:14 PM	190.7	1.016	-0.04	0.01	0.00	0.01
5/9/2024	1:22:17 PM	190.7	1.017	-0.09	0.01	0.00	0.06
5/9/2024	1:23:20 PM	190.7	1.017	-0.09	0.00	0.00	0.05
5/9/2024	1:24:23 PM	190.7	1.017	-0.08	0.01	0.00	0.03
5/9/2024	1:25:26 PM	190.7	1.017	-0.10	0.01	0.00	0.02
5/9/2024	1:26:28 PM	190.7	1.017	-0.05	0.01	0.00	0.06
5/9/2024	1:27:32 PM	190.7	1.017	-0.09	0.00	0.00	0.00
5/9/2024	1:28:34 PM	190.7	1.017	-0.08	0.01	0.00	0.03
5/9/2024	1:30:52 PM	190.7	1.017	0.00	0.00	0.00	0.00
5/9/2024	1:32:01 PM	190.7	1.017	0.06	0.00	0.00	0.03
5/9/2024	1:33:04 PM	190.7	1.017	0.03	0.00	0.00	0.01
5/9/2024	1:34:06 PM	190.7	1.017	-0.04	0.00	0.00	0.01
5/9/2024	1:35:10 PM	190.7	1.017	0.08	0.00	0.00	0.00
5/9/2024	1:36:12 PM	190.7	1.017	-0.02	0.00	0.00	0.05
5/9/2024	1:37:15 PM	190.6	1.009	-0.07	0.02	-0.04	93.40
5/9/2024	1:38:18 PM	190.7	1.007	-0.05	0.00	-0.02	99.07
5/9/2024	1:39:21 PM	190.6	1.007	-0.06	-0.01	-0.02	98.94
5/9/2024	1:40:23 PM	190.7	1.007	-0.08	-0.01	-0.02	98.86
5/9/2024	1:41:27 PM	190.6	1.007	-0.01	0.00	-0.03	98.68
5/9/2024	1:42:29 PM	190.6	1.011	0.00	0.00	-0.03	14.98
5/9/2024	1:43:32 PM	190.7	1.016	-0.08	0.00	0.00	-0.02
5/9/2024	1:44:35 PM	190.7	1.017	0.06	0.00	0.00	0.01

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/9/2024	1:45:38 PM	190.6	1.017	-0.04	0.00	0.00	-0.03
5/9/2024	1:46:41 PM	190.6	1.017	0.08	0.00	0.00	0.00
5/9/2024	1:47:43 PM	190.6	1.017	-0.11	0.00	0.00	-0.04
5/9/2024	1:48:46 PM	190.7	1.017	-0.07	0.00	0.00	-0.08
5/9/2024	1:49:49 PM	190.7	1.017	-0.06	0.00	0.00	0.06
5/9/2024	1:50:52 PM	190.6	1.017	0.04	0.01	0.00	0.01
5/9/2024	1:51:55 PM	190.6	1.017	-0.03	0.00	0.00	-0.04
5/9/2024	1:52:57 PM	190.6	1.017	0.00	0.00	0.00	0.03
5/9/2024	1:54:00 PM	190.6	1.017	0.00	0.00	0.00	0.00
5/9/2024	1:55:03 PM	190.6	1.017	0.62	1.28	-0.02	0.10
5/9/2024	1:56:06 PM	190.7	1.011	1.85	7.66	-0.05	0.12
5/9/2024	1:57:09 PM	190.7	1.015	2.67	15.00	-0.04	-0.15
5/9/2024	1:58:12 PM	190.9	1.020	2.18	20.01	-0.03	-0.11
5/9/2024	1:59:14 PM	191.1	1.021	2.00	21.91	-0.05	-0.09
5/9/2024	2:00:17 PM	191.1	1.021	2.09	19.52	-0.04	-0.12
5/9/2024	2:01:20 PM	191.2	1.020	2.23	20.36	-0.05	-0.08
5/9/2024	2:02:23 PM	191.0	1.020	2.11	20.08	-0.04	-0.02
5/9/2024	2:03:26 PM	191.2	1.021	2.05	21.93	-0.04	-0.09
5/9/2024	2:04:29 PM	191.1	1.020	2.17	18.87	-0.05	-0.03
5/9/2024	2:05:31 PM	191.0	1.020	2.14	20.38	-0.05	-0.08
5/9/2024	2:06:34 PM	191.0	1.021	2.09	20.39	-0.04	-0.06
5/9/2024	2:07:37 PM	191.0	1.021	2.18	19.63	-0.05	-0.11
5/9/2024	2:08:40 PM	190.8	1.020	2.22	18.26	-0.04	-0.07
5/9/2024	2:09:43 PM	190.9	1.022	2.13	21.26	-0.04	-0.09
5/9/2024	2:10:46 PM	190.9	1.020	2.17	18.34	-0.05	-0.06
5/9/2024	2:11:49 PM	190.9	1.020	2.12	19.67	-0.04	-0.06
5/9/2024	2:12:51 PM	190.9	1.021	2.13	19.72	-0.04	-0.06
5/9/2024	2:13:54 PM	190.9	1.021	2.14	20.60	-0.05	0.04
5/9/2024	2:14:57 PM	190.9	1.020	2.20	18.66	-0.05	-0.12
5/9/2024	2:16:00 PM	190.9	1.021	2.11	21.59	-0.04	-0.12
5/9/2024	2:17:03 PM	190.9	1.021	2.20	21.06	-0.04	0.05
5/9/2024	2:18:05 PM	191.0	1.022	2.09	20.80	-0.05	-0.09
5/9/2024	2:19:08 PM	191.0	1.021	2.10	19.42	-0.04	-0.06
5/9/2024	2:20:11 PM	190.9	1.020	2.12	19.22	-0.04	0.00
5/9/2024	2:21:14 PM	190.8	1.021	1.99	21.23	-0.05	-0.08
5/9/2024	2:22:17 PM	190.9	1.021	2.19	20.20	-0.05	-0.10
5/9/2024	2:23:20 PM	190.9	1.019	2.16	17.71	-0.05	0.05
5/9/2024	2:24:22 PM	190.8	1.021	2.06	21.33	-0.04	-0.06
5/9/2024	2:25:25 PM	190.9	1.021	2.08	20.40	-0.05	-0.10
5/9/2024	2:26:28 PM	191.0	1.021	2.08	20.11	-0.05	-0.01
5/9/2024	2:27:31 PM	190.9	1.021	2.15	20.88	-0.05	-0.10
5/9/2024	2:28:34 PM	191.0	1.021	2.15	19.85	-0.04	-0.03
5/9/2024	2:29:37 PM	191.0	1.021	2.11	21.59	-0.04	-0.09
5/9/2024	2:30:39 PM	191.0	1.020	2.18	19.76	-0.05	-0.03
5/9/2024	2:31:43 PM	191.0	1.022	2.03	21.83	-0.05	-0.17
5/9/2024	2:32:45 PM	191.0	1.021	2.13	19.04	-0.05	0.02
5/9/2024	2:33:48 PM	191.0	1.021	2.09	20.77	-0.05	-0.01
5/9/2024	2:34:51 PM	191.0	1.020	2.02	19.27	-0.04	-0.07
5/9/2024	2:35:54 PM	191.0	1.020	2.16	19.60	-0.05	-0.04
5/9/2024	2:36:56 PM	191.0	1.020	2.13	19.47	-0.04	-0.05
5/9/2024	2:37:59 PM	191.0	1.021	2.12	19.45	-0.05	-0.07
5/9/2024	2:39:02 PM	191.0	1.021	2.06	21.15	-0.05	0.00
5/9/2024	2:40:05 PM	191.0	1.021	2.12	20.41	-0.04	-0.09
5/9/2024	2:41:08 PM	191.0	1.020	2.16	18.32	-0.05	0.00
5/9/2024	2:42:11 PM	191.0	1.021	2.10	19.14	-0.05	0.05
5/9/2024	2:43:13 PM	191.0	1.021	2.10	21.22	-0.05	-0.07

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/9/2024	2:44:16 PM	191.0	1.020	2.22	19.28	-0.05	-0.04
5/9/2024	2:45:19 PM	191.0	1.021	2.17	19.89	-0.05	-0.06
5/9/2024	2:46:22 PM	191.0	1.021	2.32	20.49	-0.04	-0.12
5/9/2024	2:47:25 PM	191.0	1.020	2.22	19.65	-0.05	-0.03
5/9/2024	2:48:28 PM	191.0	1.021	2.11	20.31	-0.06	0.04
5/9/2024	2:49:30 PM	191.0	1.020	2.16	20.97	-0.04	0.02
5/9/2024	2:50:33 PM	191.0	1.020	2.15	18.68	-0.05	-0.03
5/9/2024	2:51:36 PM	191.0	1.021	2.11	21.53	-0.05	0.04
5/9/2024	2:52:39 PM	191.1	1.020	2.17	19.56	-0.04	-0.03
5/9/2024	2:53:42 PM	190.9	1.020	2.25	19.13	-0.05	0.01
5/9/2024	2:54:45 PM	190.9	1.021	2.05	20.63	-0.05	-0.01
5/9/2024	2:55:47 PM	191.0	1.021	1.99	21.66	-0.05	0.01
5/9/2024	2:56:50 PM	191.0	1.020	2.10	18.40	-0.05	-0.02
5/9/2024	2:57:53 PM	190.9	1.021	2.10	20.40	-0.05	-0.12
5/9/2024	2:58:56 PM	191.0	1.020	2.11	18.72	-0.05	0.03
5/9/2024	2:59:59 PM	191.0	1.021	2.03	19.37	-0.04	-0.02
5/9/2024	3:01:02 PM	191.0	1.020	2.12	21.70	-0.03	-0.24
5/9/2024	3:02:04 PM	191.0	1.022	2.09	17.27	-0.04	-0.09
5/9/2024	3:03:07 PM	190.9	1.019	2.18	17.55	-0.05	0.05
5/9/2024	3:04:11 PM	191.0	1.027	2.09	17.82	-0.03	-0.10
5/9/2024	3:05:13 PM	190.8	1.028	1.35	6.14	0.00	-0.04
5/9/2024	3:06:16 PM	190.8	1.024	0.78	3.13	0.00	-0.02
5/9/2024	3:07:19 PM	190.7	1.022	0.61	2.02	0.00	0.00
5/9/2024	3:08:22 PM	190.7	1.022	0.51	1.38	0.00	-0.07
5/9/2024	3:09:24 PM	190.7	1.022	0.31	0.98	0.00	0.01
5/9/2024	3:10:27 PM	190.6	1.021	0.83	2.27	-0.01	-0.01
5/9/2024	3:11:30 PM	190.7	1.021	0.39	0.99	0.00	-0.08
5/9/2024	3:12:33 PM	190.7	1.021	0.22	0.57	0.00	0.01
5/9/2024	3:13:36 PM	190.6	1.021	-0.02	0.34	0.00	0.05
5/9/2024	3:14:38 PM	190.6	1.021	0.04	0.20	0.00	-0.02
5/9/2024	3:15:41 PM	190.6	1.021	-0.11	0.16	0.00	0.02
5/9/2024	3:16:44 PM	190.7	1.015	1.76	8.43	-0.05	0.11
5/9/2024	3:17:47 PM	190.6	1.015	2.70	15.56	-0.05	0.02
5/9/2024	3:18:50 PM	190.7	1.018	2.13	18.80	-0.05	0.04
5/9/2024	3:19:53 PM	191.0	1.021	2.11	21.45	-0.05	-0.10
5/9/2024	3:20:55 PM	190.9	1.020	2.21	18.57	-0.05	-0.05
5/9/2024	3:21:58 PM	190.9	1.020	2.17	19.07	-0.05	0.06
5/9/2024	3:23:01 PM	190.9	1.021	2.17	19.88	-0.05	0.04
5/9/2024	3:24:04 PM	190.9	1.020	1.97	20.18	-0.05	-0.08
5/9/2024	3:25:07 PM	190.9	1.020	2.15	19.36	-0.05	-0.02
5/9/2024	3:26:10 PM	190.9	1.020	2.12	19.95	-0.05	0.04
5/9/2024	3:27:13 PM	190.9	1.020	2.12	21.22	-0.05	0.06
5/9/2024	3:28:15 PM	190.8	1.019	2.12	18.97	-0.05	0.03
5/9/2024	3:29:18 PM	190.9	1.021	2.02	21.38	-0.04	-0.02
5/9/2024	3:30:21 PM	190.9	1.020	2.18	19.72	-0.05	0.00
5/9/2024	3:31:24 PM	190.8	1.021	2.03	20.09	-0.04	0.01
5/9/2024	3:32:27 PM	190.8	1.019	2.10	19.15	-0.05	0.06
5/9/2024	3:33:29 PM	190.8	1.021	2.06	21.40	-0.04	-0.03
5/9/2024	3:34:32 PM	190.9	1.020	2.17	19.55	-0.04	-0.04
5/9/2024	3:35:35 PM	190.9	1.020	2.07	20.27	-0.04	-0.03
5/9/2024	3:36:38 PM	190.8	1.020	2.00	20.39	-0.05	-0.04
5/9/2024	3:37:41 PM	190.9	1.020	2.05	19.67	-0.05	0.06
5/9/2024	3:38:44 PM	190.8	1.020	2.03	19.22	-0.05	0.06
5/9/2024	3:39:47 PM	190.8	1.020	2.06	20.30	-0.05	0.03
5/9/2024	3:40:49 PM	190.8	1.020	2.06	21.03	-0.05	-0.05
5/9/2024	3:41:52 PM	190.9	1.020	2.01	20.75	-0.04	-0.01

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No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/9/2024	3:42:55 PM	190.9	1.020	2.06	19.75	-0.04	-0.03
5/9/2024	3:43:58 PM	190.9	1.020	2.12	20.58	-0.05	-0.05
5/9/2024	3:45:01 PM	190.9	1.020	2.05	19.60	-0.04	0.00
5/9/2024	3:46:04 PM	190.9	1.020	2.08	20.06	-0.05	-0.07
5/9/2024	3:47:06 PM	190.9	1.021	1.97	22.83	-0.05	0.04
5/9/2024	3:48:09 PM	191.0	1.020	2.11	20.15	-0.05	-0.11
5/9/2024	3:49:12 PM	190.9	1.019	2.17	18.27	-0.05	0.00
5/9/2024	3:50:15 PM	190.9	1.021	2.15	22.58	-0.05	-0.08
5/9/2024	3:51:18 PM	190.9	1.019	2.08	18.75	-0.05	0.06
5/9/2024	3:52:21 PM	190.9	1.020	2.11	20.74	-0.05	-0.02
5/9/2024	3:53:23 PM	190.9	1.020	2.11	20.75	-0.05	-0.21
5/9/2024	3:54:26 PM	190.9	1.019	2.16	19.21	-0.05	0.02
5/9/2024	3:55:29 PM	190.8	1.020	2.12	19.64	-0.04	-0.09
5/9/2024	3:56:32 PM	190.9	1.020	2.10	20.63	-0.05	-0.02
5/9/2024	3:57:35 PM	190.9	1.020	2.16	20.10	-0.04	-0.02
5/9/2024	3:58:38 PM	190.9	1.020	2.12	20.68	-0.05	-0.11
5/9/2024	3:59:40 PM	190.9	1.021	2.17	19.48	-0.05	0.03
5/9/2024	4:00:43 PM	190.8	1.020	2.03	19.02	-0.05	-0.05
5/9/2024	4:01:46 PM	190.9	1.020	2.05	21.13	-0.05	0.09
5/9/2024	4:02:49 PM	190.8	1.020	2.04	20.27	-0.04	0.07
5/9/2024	4:03:52 PM	190.9	1.021	2.04	20.72	-0.04	-0.06
5/9/2024	4:04:55 PM	190.9	1.021	2.03	19.09	-0.04	-0.06
5/9/2024	4:05:57 PM	191.0	1.020	2.06	20.29	-0.04	0.09
5/9/2024	4:07:00 PM	190.9	1.020	2.06	19.92	-0.05	0.03
5/9/2024	4:08:03 PM	190.8	1.020	2.09	18.90	-0.04	0.02
5/9/2024	4:09:06 PM	190.8	1.020	2.14	19.55	-0.05	0.02
5/9/2024	4:10:09 PM	190.9	1.021	1.95	21.12	-0.04	0.02
5/9/2024	4:11:12 PM	190.9	1.021	2.03	20.71	-0.05	0.06
5/9/2024	4:12:14 PM	190.9	1.021	2.05	19.81	-0.05	0.04
5/9/2024	4:13:17 PM	190.9	1.020	2.07	19.75	-0.05	-0.06
5/9/2024	4:14:20 PM	190.9	1.020	2.00	21.26	-0.05	-0.07
5/9/2024	4:15:23 PM	190.9	1.020	2.06	19.83	-0.04	-0.03
5/9/2024	4:16:26 PM	190.9	1.020	2.01	20.92	-0.05	-0.01
5/9/2024	4:17:29 PM	190.9	1.020	2.10	20.07	-0.06	0.02
5/9/2024	4:18:31 PM	190.8	1.021	2.08	20.71	-0.05	-0.04
5/9/2024	4:19:35 PM	190.9	1.020	2.07	20.58	-0.04	-0.05
5/9/2024	4:20:37 PM	191.0	1.028	2.60	15.72	0.00	-0.43
5/9/2024	4:21:40 PM	190.8	1.026	1.39	4.76	0.01	-0.10
5/9/2024	4:22:43 PM	190.7	1.023	0.81	2.17	0.01	0.01
5/9/2024	4:23:46 PM	190.7	1.022	0.42	1.05	0.00	0.06
5/9/2024	4:24:48 PM	190.7	1.021	0.00	0.47	0.00	0.00
5/9/2024	4:25:51 PM	190.7	1.021	0.35	0.92	-0.01	0.07
5/9/2024	4:26:54 PM	190.7	1.021	0.15	0.58	-0.01	0.10
5/9/2024	4:27:57 PM	190.7	1.021	0.12	0.51	-0.01	0.06
5/9/2024	4:29:00 PM	190.7	1.021	0.10	0.54	0.00	0.05
5/9/2024	4:30:03 PM	190.6	1.015	1.33	5.28	-0.03	0.23
5/9/2024	4:31:05 PM	190.6	1.013	2.51	14.91	-0.05	0.05
5/9/2024	4:32:08 PM	190.7	1.017	2.09	18.44	-0.05	-0.09
5/9/2024	4:33:11 PM	190.7	1.019	1.98	20.74	-0.05	-0.02
5/9/2024	4:34:14 PM	190.9	1.020	2.06	19.14	-0.04	-0.01
5/9/2024	4:35:17 PM	190.8	1.019	2.10	19.13	-0.05	-0.04
5/9/2024	4:36:20 PM	190.8	1.019	1.96	21.54	-0.04	-0.03
5/9/2024	4:37:22 PM	190.9	1.020	2.13	20.36	-0.04	-0.01
5/9/2024	4:38:25 PM	190.9	1.019	2.25	20.64	-0.05	-0.01
5/9/2024	4:39:28 PM	190.9	1.019	2.10	18.26	-0.05	-0.06
5/9/2024	4:40:31 PM	190.9	1.019	2.11	19.89	-0.05	0.04

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No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/9/2024	4:41:34 PM	190.9	1.019	2.03	20.04	-0.05	0.01
5/9/2024	4:42:37 PM	190.9	1.019	2.05	20.50	-0.04	-0.01
5/9/2024	4:43:40 PM	190.8	1.019	2.01	20.01	-0.05	-0.04
5/9/2024	4:44:43 PM	190.9	1.018	2.05	20.61	-0.05	0.02
5/9/2024	4:45:45 PM	190.8	1.019	2.10	20.34	-0.04	-0.04
5/9/2024	4:46:48 PM	190.9	1.019	1.98	20.11	-0.05	-0.06
5/9/2024	4:47:51 PM	190.8	1.018	2.02	20.42	-0.05	0.05
5/9/2024	4:48:54 PM	190.9	1.019	1.97	20.98	-0.04	-0.06
5/9/2024	4:49:56 PM	190.8	1.018	2.03	19.64	-0.05	-0.15
5/9/2024	4:50:59 PM	190.9	1.019	1.97	20.43	-0.05	0.00
5/9/2024	4:52:02 PM	190.9	1.018	1.97	20.01	-0.05	-0.06
5/9/2024	4:53:05 PM	190.9	1.018	2.08	20.77	-0.05	0.01
5/9/2024	4:54:08 PM	190.9	1.019	1.99	21.47	-0.05	-0.05
5/9/2024	4:55:11 PM	190.9	1.018	1.99	20.71	-0.05	-0.03
5/9/2024	4:56:14 PM	190.9	1.018	2.09	19.77	-0.04	0.02
5/9/2024	4:57:16 PM	190.9	1.018	2.03	20.64	-0.04	-0.02
5/9/2024	4:58:19 PM	190.8	1.018	2.03	21.38	-0.04	-0.05
5/9/2024	4:59:22 PM	191.0	1.018	2.07	20.19	-0.04	-0.04
5/9/2024	5:00:25 PM	190.9	1.017	2.09	19.14	-0.05	-0.06
5/9/2024	5:01:28 PM	190.8	1.018	2.04	19.99	-0.04	-0.01
5/9/2024	5:02:30 PM	190.9	1.018	2.04	21.53	-0.04	-0.07
5/9/2024	5:03:34 PM	190.9	1.018	2.00	21.06	-0.05	-0.04
5/9/2024	5:04:36 PM	191.0	1.017	2.01	19.94	-0.04	-0.02
5/9/2024	5:05:39 PM	190.9	1.018	2.00	21.09	-0.05	-0.34
5/9/2024	5:06:42 PM	190.9	1.018	2.07	19.85	-0.05	-0.22
5/9/2024	5:07:45 PM	190.8	1.018	2.19	20.17	-0.05	-0.13
5/9/2024	5:08:47 PM	190.9	1.018	2.02	19.63	-0.04	-0.14
5/9/2024	5:09:50 PM	190.9	1.017	2.01	19.71	-0.05	-0.02
5/9/2024	5:10:53 PM	190.9	1.019	2.13	21.51	-0.05	-0.08
5/9/2024	5:11:56 PM	191.0	1.018	2.16	19.46	-0.05	-0.03
5/9/2024	5:12:59 PM	190.9	1.018	2.15	18.91	-0.04	0.04
5/9/2024	5:14:02 PM	190.9	1.018	2.10	20.35	-0.04	-0.03
5/9/2024	5:15:04 PM	190.8	1.018	2.11	19.94	-0.04	-0.04
5/9/2024	5:16:07 PM	190.8	1.017	2.01	19.19	-0.05	-0.05
5/9/2024	5:17:10 PM	190.8	1.018	2.05	20.82	-0.05	-0.10
5/9/2024	5:18:13 PM	190.8	1.018	2.09	20.56	-0.05	-0.01
5/9/2024	5:19:16 PM	190.8	1.018	1.99	20.98	-0.04	-0.09
5/9/2024	5:20:19 PM	190.9	1.018	2.10	19.58	-0.04	-0.05
5/9/2024	5:21:21 PM	190.9	1.018	2.03	20.51	-0.05	-0.09
5/9/2024	5:22:24 PM	190.9	1.018	2.03	21.29	-0.04	-0.15
5/9/2024	5:23:27 PM	190.9	1.017	2.14	21.13	-0.05	-0.06
5/9/2024	5:24:30 PM	190.9	1.018	2.07	21.26	-0.05	-0.02
5/9/2024	5:25:33 PM	190.9	1.017	2.10	20.08	-0.04	-0.02
5/9/2024	5:26:36 PM	190.8	1.017	2.10	19.64	-0.05	-0.05
5/9/2024	5:27:38 PM	190.8	1.018	2.04	20.49	-0.05	-0.09
5/9/2024	5:28:41 PM	190.8	1.017	2.11	20.65	-0.05	-0.03
5/9/2024	5:29:44 PM	190.8	1.018	2.10	20.70	-0.04	-0.06
5/9/2024	5:30:47 PM	191.0	1.018	2.11	20.06	-0.04	-0.10
5/9/2024	5:31:50 PM	190.9	1.020	2.07	20.63	-0.02	-0.28
5/9/2024	5:32:53 PM	191.0	1.027	1.20	9.62	0.00	-0.21
5/9/2024	5:33:55 PM	190.8	1.023	1.16	4.03	0.00	-0.10
5/9/2024	5:34:58 PM	190.7	1.020	0.47	2.08	0.00	0.04
5/9/2024	5:36:01 PM	190.7	1.019	0.38	1.35	0.00	0.04
5/9/2024	5:37:04 PM	190.7	1.019	0.09	0.38	0.00	-0.02
5/9/2024	5:38:07 PM	190.7	1.019	0.03	0.21	0.00	-0.08
5/9/2024	5:39:10 PM	190.6	1.019	0.03	0.16	0.00	-0.09

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/9/2024	5:40:13 PM	190.6	1.011	1.93	9.32	-0.04	-0.10
5/9/2024	5:41:15 PM	190.6	1.012	2.60	14.85	-0.04	-0.04
5/9/2024	5:42:18 PM	190.7	1.017	2.00	21.02	-0.05	-0.17
5/9/2024	5:43:21 PM	190.8	1.017	2.19	18.80	-0.04	-0.16
5/9/2024	5:44:24 PM	190.9	1.018	2.02	20.70	-0.04	-0.15
5/9/2024	5:45:27 PM	190.9	1.018	2.07	20.36	-0.04	-0.16
5/9/2024	5:46:30 PM	190.9	1.018	2.24	18.40	-0.05	-0.06
5/9/2024	5:47:32 PM	190.9	1.018	2.09	21.15	-0.04	-0.13
5/9/2024	5:48:35 PM	190.9	1.018	2.18	19.80	-0.05	-0.13
5/9/2024	5:49:38 PM	190.8	1.018	2.24	21.42	-0.05	-0.14
5/9/2024	5:50:41 PM	190.8	1.018	2.13	18.69	-0.04	-0.04
5/9/2024	5:51:44 PM	190.9	1.019	2.08	21.23	-0.04	-0.12
5/9/2024	5:52:47 PM	190.9	1.017	2.14	17.63	-0.04	-0.07
5/9/2024	5:53:49 PM	190.8	1.018	2.09	19.56	-0.04	-0.04
5/9/2024	5:54:52 PM	190.9	1.019	2.06	21.40	-0.05	-0.16
5/9/2024	5:55:55 PM	190.9	1.018	2.09	19.54	-0.05	-0.07
5/9/2024	5:56:58 PM	190.9	1.017	2.09	20.30	-0.04	-0.15
5/9/2024	5:58:01 PM	190.9	1.018	2.14	20.86	-0.05	-0.07
5/9/2024	5:59:04 PM	190.9	1.019	2.04	20.77	-0.04	-0.10
5/9/2024	6:00:06 PM	190.8	1.019	2.09	20.18	-0.04	-0.07
5/9/2024	6:01:09 PM	190.8	1.018	2.08	20.01	-0.05	-0.03
5/9/2024	6:02:12 PM	190.9	1.018	1.97	20.60	-0.04	-0.09
5/9/2024	6:03:15 PM	190.9	1.018	2.04	20.69	-0.05	-0.05
5/9/2024	6:04:18 PM	190.9	1.018	1.98	21.59	-0.05	0.08
5/9/2024	6:05:21 PM	190.9	1.018	2.11	19.79	-0.04	-0.17
5/9/2024	6:06:23 PM	190.9	1.017	2.09	19.99	-0.04	-0.10
5/9/2024	6:07:26 PM	190.9	1.018	2.02	20.79	-0.04	-0.09
5/9/2024	6:08:29 PM	190.9	1.018	2.07	20.40	-0.04	-0.06
5/9/2024	6:09:32 PM	190.9	1.018	2.09	19.15	-0.05	-0.07
5/9/2024	6:10:35 PM	190.8	1.018	1.95	20.67	-0.04	-0.16
5/9/2024	6:11:38 PM	190.9	1.018	1.93	20.58	-0.05	-0.16
5/9/2024	6:12:40 PM	191.0	1.017	2.10	20.31	-0.04	-0.12
5/9/2024	6:13:43 PM	191.0	1.018	2.00	21.89	-0.05	-0.01
5/9/2024	6:14:46 PM	190.9	1.017	2.10	19.14	-0.05	-0.08
5/9/2024	6:15:49 PM	190.9	1.018	1.99	22.15	-0.04	-0.12
5/9/2024	6:16:52 PM	190.9	1.017	2.15	19.60	-0.05	-0.08
5/9/2024	6:17:55 PM	190.9	1.018	2.06	20.00	-0.04	-0.17
5/9/2024	6:18:57 PM	190.9	1.019	2.14	20.42	-0.05	-0.07
5/9/2024	6:20:00 PM	190.9	1.017	2.11	19.42	-0.04	-0.08
5/9/2024	6:21:03 PM	190.9	1.017	2.08	19.35	-0.04	-0.07
5/9/2024	6:22:06 PM	190.9	1.018	2.04	20.40	-0.04	-0.17
5/9/2024	6:23:09 PM	190.9	1.017	2.12	19.69	-0.05	-0.13
5/9/2024	6:24:12 PM	190.9	1.018	2.05	20.68	-0.05	-0.09
5/9/2024	6:25:14 PM	190.9	1.018	2.07	21.45	-0.04	-0.12
5/9/2024	6:26:17 PM	190.9	1.018	2.08	20.31	-0.04	-0.12
5/9/2024	6:27:20 PM	190.9	1.018	2.02	19.93	-0.05	-0.12
5/9/2024	6:28:23 PM	190.9	1.018	2.13	20.16	-0.04	-0.09
5/9/2024	6:29:26 PM	190.8	1.017	2.18	20.20	-0.04	-0.09
5/9/2024	6:30:29 PM	190.9	1.018	2.00	20.53	-0.05	-0.03
5/9/2024	6:31:31 PM	190.9	1.018	1.96	20.47	-0.04	-0.14
5/9/2024	6:32:34 PM	190.8	1.018	2.18	19.51	-0.05	-0.09
5/9/2024	6:33:37 PM	190.9	1.018	2.00	21.32	-0.05	-0.08
5/9/2024	6:34:40 PM	190.9	1.019	2.01	20.93	-0.04	-0.18
5/9/2024	6:35:43 PM	191.0	1.018	2.07	19.53	-0.04	-0.13
5/9/2024	6:36:46 PM	190.9	1.024	2.02	17.69	-0.01	-0.34
5/9/2024	6:37:48 PM	190.9	1.028	1.69	7.68	0.00	-0.17

BASF - Geismar, LA
No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/9/2024	6:38:51 PM	190.8	1.024	1.15	3.48	0.00	-0.13
5/9/2024	6:39:54 PM	190.7	1.021	0.66	1.57	0.00	-0.05
5/9/2024	6:40:57 PM	190.7	1.019	0.38	0.99	0.00	-0.03
5/9/2024	6:42:00 PM	190.7	1.019	0.35	0.80	0.00	-0.05
5/9/2024	6:43:02 PM	190.7	1.018	0.81	2.33	0.00	-0.09
5/9/2024	6:44:05 PM	190.7	1.064	0.62	1.58	0.00	-0.02
5/9/2024	6:45:08 PM	190.8	1.071	0.21	0.63	0.00	-0.03
5/9/2024	6:46:11 PM	190.8	1.072	0.05	0.34	0.00	-0.02
5/9/2024	6:47:14 PM	190.8	1.073	0.01	0.21	0.00	0.05
5/9/2024	6:48:17 PM	190.8	1.071	0.74	2.14	-0.01	0.06
5/9/2024	6:49:19 PM	190.9	1.074	1.29	4.97	0.01	-0.16
5/9/2024	6:50:22 PM	190.9	1.075	0.77	2.40	0.00	-0.05
5/9/2024	6:51:25 PM	190.9	1.074	0.58	1.75	0.00	-0.04
5/9/2024	6:52:28 PM	190.9	1.074	0.62	1.72	0.00	-0.12
5/9/2024	6:53:31 PM	190.9	1.075	0.69	1.75	0.01	-0.19
5/9/2024	6:54:34 PM	190.9	1.075	0.70	1.70	0.00	-0.01
5/9/2024	6:55:37 PM	190.9	1.075	0.65	1.66	0.00	-0.06
5/9/2024	6:56:40 PM	190.9	1.048	0.39	0.97	0.00	-0.18
5/9/2024	6:57:42 PM	190.8	1.014	0.01	0.01	0.00	0.00
5/9/2024	6:58:45 PM	190.7	1.014	0.03	0.01	0.00	0.05
5/9/2024	6:59:48 PM	190.7	1.014	0.01	0.00	0.00	0.04
5/9/2024	7:00:51 PM	190.7	1.014	-0.01	0.00	0.00	0.07
5/9/2024	7:01:54 PM	190.7	1.014	0.00	0.00	0.00	-0.04
5/9/2024	7:04:16 PM	190.7	1.015	0.00	0.00	0.00	0.00
5/9/2024	7:05:25 PM	190.7	1.015	-0.01	0.00	0.00	0.01
5/9/2024	7:06:28 PM	190.7	1.016	-0.06	0.00	0.00	-0.04
5/9/2024	7:07:30 PM	190.7	1.016	0.01	0.00	0.00	0.01
5/9/2024	7:08:33 PM	190.7	1.016	0.07	0.00	0.00	0.02
5/9/2024	7:09:36 PM	190.6	1.016	0.00	-0.01	0.00	-0.04
5/9/2024	7:10:39 PM	190.6	1.016	0.04	0.00	0.00	-0.03
5/9/2024	7:11:42 PM	190.7	1.017	-0.02	0.00	0.00	-0.03
5/9/2024	7:12:44 PM	190.6	1.017	0.06	0.00	0.00	-0.01
5/9/2024	7:13:47 PM	190.7	1.017	-0.07	0.00	0.00	-0.03
5/9/2024	7:14:50 PM	190.7	1.017	-0.02	0.00	0.00	-0.01
5/9/2024	7:15:53 PM	190.7	1.017	0.06	0.00	0.00	0.00
5/9/2024	7:16:56 PM	190.6	1.017	0.00	-0.01	0.00	0.03
5/9/2024	7:17:59 PM	190.7	1.017	-0.01	0.00	0.00	-0.07
5/9/2024	7:19:02 PM	190.7	1.017	0.03	0.00	0.00	0.01
5/9/2024	7:20:04 PM	190.6	1.017	0.07	0.00	0.00	-0.01
5/9/2024	7:21:07 PM	190.7	1.017	0.03	0.00	0.00	0.00
5/9/2024	7:22:10 PM	190.7	1.018	0.09	0.00	0.00	-0.06
5/9/2024	7:23:13 PM	190.7	1.018	0.04	0.00	0.00	-0.01
5/9/2024	7:24:16 PM	190.7	1.015	-0.02	0.01	-0.01	7.01
5/9/2024	7:25:19 PM	190.7	1.005	0.04	0.01	-0.03	99.08
5/9/2024	7:26:21 PM	190.6	1.005	0.05	0.00	-0.03	99.19
5/9/2024	7:27:24 PM	190.7	1.005	-0.03	0.00	-0.03	98.69
5/9/2024	7:28:27 PM	190.7	1.004	-0.03	0.00	-0.03	98.71
5/9/2024	7:29:30 PM	190.7	1.012	0.04	0.00	-0.03	17.71
5/9/2024	7:30:33 PM	190.7	1.017	0.02	-0.01	0.00	-0.03
5/10/2024	7:38:47 AM	190.4	1.026	0.06	0.00	0.01	-0.03
5/10/2024	7:39:49 AM	190.4	1.026	0.03	-0.01	0.00	-0.08
5/10/2024	7:40:52 AM	190.5	1.027	0.07	-0.01	0.01	0.00
5/10/2024	7:41:55 AM	190.5	1.027	0.04	-0.01	0.00	0.01
5/10/2024	7:42:58 AM	190.5	1.028	0.03	-0.01	0.01	0.01
5/10/2024	7:44:01 AM	190.5	1.028	0.11	-0.01	0.00	-0.04

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No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/10/2024	7:45:04 AM	190.5	1.028	0.06	0.00	0.00	0.02
5/10/2024	7:46:06 AM	190.5	1.028	0.11	-0.01	0.00	-0.02
5/10/2024	7:47:10 AM	190.5	1.029	0.04	-0.01	0.00	-0.07
5/10/2024	7:48:12 AM	190.5	1.029	0.01	-0.01	0.01	0.01
5/10/2024	7:49:15 AM	190.5	1.029	0.03	0.00	0.00	-0.08
5/10/2024	7:50:18 AM	190.5	1.029	-0.04	-0.01	0.00	-0.02
5/10/2024	7:52:37 AM	190.5	1.029	0.00	0.00	0.00	0.00
5/10/2024	7:53:47 AM	190.5	1.029	0.03	0.00	0.00	-0.03
5/10/2024	7:54:49 AM	190.6	1.029	0.04	0.00	0.00	0.04
5/10/2024	7:55:52 AM	190.6	1.016	0.00	0.01	-0.05	71.93
5/10/2024	7:56:55 AM	190.5	1.013	-0.02	0.00	-0.03	98.72
5/10/2024	7:57:58 AM	190.5	1.012	0.01	0.00	-0.03	98.74
5/10/2024	7:59:01 AM	190.5	1.012	0.03	0.00	-0.03	98.96
5/10/2024	8:00:03 AM	190.5	1.012	0.12	0.00	-0.03	98.99
5/10/2024	8:01:06 AM	190.5	1.012	0.09	0.00	-0.03	98.89
5/10/2024	8:02:09 AM	190.5	1.020	-0.01	0.01	-0.04	33.49
5/10/2024	8:03:12 AM	190.5	1.028	0.07	0.00	0.00	0.07
5/10/2024	8:04:15 AM	190.5	1.028	0.05	0.00	0.00	-0.03
5/10/2024	8:05:18 AM	190.5	1.028	0.04	0.00	0.00	0.00
5/10/2024	8:06:20 AM	190.6	1.028	0.06	0.00	0.00	0.04
5/10/2024	8:07:23 AM	190.5	1.028	0.05	0.00	0.00	0.00
5/10/2024	8:08:26 AM	190.5	1.017	0.98	2.78	-0.05	0.02
5/10/2024	8:09:29 AM	190.5	1.015	1.35	5.36	-0.04	0.01
5/10/2024	8:10:32 AM	190.6	1.021	2.74	15.39	-0.06	0.00
5/10/2024	8:11:35 AM	191.0	1.025	1.92	19.48	-0.03	-0.07
5/10/2024	8:12:37 AM	191.0	1.025	1.94	19.92	-0.04	-0.11
5/10/2024	8:13:40 AM	190.9	1.026	1.93	18.77	-0.04	-0.15
5/10/2024	8:14:43 AM	191.0	1.027	2.04	22.46	-0.05	-0.52
5/10/2024	8:15:46 AM	191.1	1.027	2.03	22.00	-0.04	-0.22
5/10/2024	8:16:49 AM	191.0	1.026	2.07	20.53	-0.04	-0.14
5/10/2024	8:17:52 AM	190.9	1.025	2.02	20.31	-0.04	-0.08
5/10/2024	8:18:55 AM	190.9	1.026	1.97	20.66	-0.04	-0.19
5/10/2024	8:19:57 AM	190.9	1.025	2.11	19.90	-0.04	-0.18
5/10/2024	8:21:00 AM	190.9	1.025	2.04	19.85	-0.04	-0.15
5/10/2024	8:22:03 AM	190.9	1.026	1.96	22.36	-0.04	-0.28
5/10/2024	8:23:06 AM	191.0	1.023	2.23	17.50	-0.04	-0.11
5/10/2024	8:24:09 AM	190.9	1.025	2.20	18.85	-0.05	-0.23
5/10/2024	8:25:11 AM	190.9	1.025	2.16	20.50	-0.04	-0.07
5/10/2024	8:26:14 AM	191.0	1.025	2.17	19.86	-0.04	-0.20
5/10/2024	8:27:17 AM	190.9	1.024	2.15	18.16	-0.04	-0.20
5/10/2024	8:28:20 AM	190.9	1.025	2.11	21.45	-0.05	-0.12
5/10/2024	8:29:23 AM	190.9	1.025	2.19	18.60	-0.04	-0.16
5/10/2024	8:30:26 AM	191.0	1.026	2.10	19.81	-0.04	-0.11
5/10/2024	8:31:28 AM	190.9	1.024	2.23	18.89	-0.05	-0.08
5/10/2024	8:32:32 AM	191.0	1.025	2.11	20.07	-0.04	-0.18
5/10/2024	8:33:34 AM	191.0	1.025	2.21	18.77	-0.05	-0.16
5/10/2024	8:34:37 AM	190.9	1.024	2.13	18.98	-0.04	-0.09
5/10/2024	8:35:40 AM	190.9	1.024	2.24	18.81	-0.05	-0.17
5/10/2024	8:36:43 AM	190.9	1.025	2.09	20.01	-0.04	-0.14
5/10/2024	8:37:46 AM	190.9	1.024	2.09	20.20	-0.04	-0.16
5/10/2024	8:38:48 AM	190.9	1.025	2.10	20.54	-0.04	-0.14
5/10/2024	8:39:51 AM	190.9	1.024	2.16	18.78	-0.04	-0.17
5/10/2024	8:40:54 AM	190.9	1.025	2.15	20.18	-0.04	-0.15
5/10/2024	8:41:57 AM	190.9	1.024	2.11	19.44	-0.04	-0.17
5/10/2024	8:43:00 AM	190.9	1.025	2.13	18.80	-0.03	-0.27
5/10/2024	8:44:03 AM	190.9	1.026	2.06	21.74	-0.05	-0.14

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No. 3 Boiler FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/10/2024	8:45:05 AM	191.0	1.024	2.89	16.75	-0.04	-0.17
5/10/2024	8:46:09 AM	190.8	1.024	3.08	18.29	-0.04	-0.19
5/10/2024	8:47:11 AM	191.1	1.025	2.11	21.26	-0.05	-0.13
5/10/2024	8:48:14 AM	191.0	1.025	2.14	18.50	-0.04	-0.17
5/10/2024	8:49:17 AM	191.0	1.025	2.08	19.55	-0.04	-0.12
5/10/2024	8:50:20 AM	191.0	1.025	2.16	19.47	-0.04	-0.11
5/10/2024	8:51:22 AM	191.0	1.025	2.18	17.81	-0.05	-0.16
5/10/2024	8:52:26 AM	190.9	1.024	2.14	18.30	-0.04	-0.21
5/10/2024	8:53:28 AM	191.0	1.025	2.13	18.38	-0.04	-0.13
5/10/2024	8:54:31 AM	190.9	1.026	2.22	19.65	-0.05	-0.05
5/10/2024	8:55:34 AM	190.9	1.023	2.16	18.18	-0.04	-0.17
5/10/2024	8:56:37 AM	191.0	1.025	2.03	18.12	-0.05	-0.10
5/10/2024	8:57:39 AM	190.9	1.025	2.14	19.20	-0.04	-0.10
5/10/2024	8:58:42 AM	190.9	1.023	2.18	18.32	-0.04	-0.14
5/10/2024	8:59:45 AM	190.9	1.026	2.04	20.29	-0.04	-0.10
5/10/2024	9:00:48 AM	191.0	1.026	1.98	21.48	-0.04	-0.18
5/10/2024	9:01:51 AM	191.0	1.024	2.09	17.64	-0.05	-0.03
5/10/2024	9:02:54 AM	190.9	1.024	2.07	18.38	-0.04	-0.02
5/10/2024	9:03:56 AM	191.0	1.025	2.14	18.72	-0.04	-0.07
5/10/2024	9:04:59 AM	191.0	1.025	2.12	18.76	-0.04	-0.03
5/10/2024	9:06:02 AM	190.9	1.024	2.08	17.43	-0.05	-0.01
5/10/2024	9:07:05 AM	190.9	1.024	2.05	18.97	-0.04	-0.15
5/10/2024	9:08:08 AM	190.9	1.023	2.08	17.26	-0.04	-0.07
5/10/2024	9:09:11 AM	190.8	1.023	2.05	19.73	-0.05	-0.10
5/10/2024	9:10:14 AM	190.9	1.023	1.99	19.77	-0.04	-0.06
5/10/2024	9:11:17 AM	190.8	1.023	2.07	18.54	-0.04	-0.16
5/10/2024	9:12:19 AM	190.8	1.023	2.02	18.88	-0.04	-0.07
5/10/2024	9:13:22 AM	190.8	1.023	1.98	19.06	-0.04	-0.26
5/10/2024	9:14:25 AM	190.9	1.024	2.06	19.05	-0.04	-0.07
5/10/2024	9:15:28 AM	190.9	1.023	2.06	19.38	-0.05	-0.10
5/10/2024	9:16:31 AM	190.8	1.024	2.11	19.71	-0.05	-0.46
5/10/2024	9:17:33 AM	191.0	1.031	1.09	9.54	-0.01	-0.23
5/10/2024	9:18:36 AM	190.8	1.028	1.27	4.66	0.00	-0.10
5/10/2024	9:19:39 AM	190.7	1.026	0.93	2.72	-0.01	-0.05
5/10/2024	9:20:42 AM	190.7	1.024	0.80	2.09	-0.01	-0.01
5/10/2024	9:21:45 AM	190.6	1.023	0.21	0.76	0.00	-0.05
5/10/2024	9:22:48 AM	190.6	1.022	0.13	0.50	0.00	-0.06
5/10/2024	9:23:50 AM	190.6	1.021	0.49	1.11	-0.01	0.05
5/10/2024	9:24:54 AM	190.5	1.013	1.77	7.99	-0.05	0.14
5/10/2024	9:25:56 AM	190.5	1.017	2.15	12.88	-0.04	-0.04
5/10/2024	9:26:59 AM	190.7	1.020	2.68	16.60	-0.04	-0.02
5/10/2024	9:28:02 AM	190.8	1.021	2.00	18.87	-0.05	0.02
5/10/2024	9:29:05 AM	190.8	1.021	1.99	18.38	-0.05	-0.11
5/10/2024	9:30:08 AM	190.8	1.022	2.08	19.30	-0.04	-0.09
5/10/2024	9:31:10 AM	190.9	1.021	2.03	17.59	-0.04	-0.05
5/10/2024	9:32:13 AM	190.8	1.022	2.12	18.44	-0.04	-0.04
5/10/2024	9:33:16 AM	190.8	1.023	2.00	20.39	-0.04	-0.11
5/10/2024	9:34:19 AM	190.9	1.022	2.10	17.80	-0.04	-0.19
5/10/2024	9:35:22 AM	190.9	1.021	2.11	18.26	-0.04	-0.17
5/10/2024	9:36:25 AM	191.0	1.022	2.09	18.95	-0.04	-0.14
5/10/2024	9:37:27 AM	190.8	1.022	2.84	16.81	-0.04	-0.12
5/10/2024	9:38:30 AM	190.9	1.021	2.91	18.07	-0.04	-0.12
5/10/2024	9:39:33 AM	191.0	1.022	2.05	19.24	-0.04	-0.14
5/10/2024	9:40:36 AM	190.9	1.021	2.74	16.00	-0.04	-0.17
5/10/2024	9:41:39 AM	190.9	1.022	2.05	18.93	-0.04	-0.24
5/10/2024	9:42:42 AM	190.9	1.022	2.09	18.35	-0.04	-0.11

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/10/2024	9:43:44 AM	190.9	1.022	2.01	17.92	-0.05	-0.12
5/10/2024	9:44:47 AM	190.9	1.021	2.04	18.53	-0.05	-0.06
5/10/2024	9:45:50 AM	190.9	1.022	2.72	17.20	-0.03	-0.18
5/10/2024	9:46:53 AM	190.9	1.022	2.16	17.66	-0.04	-0.07
5/10/2024	9:47:56 AM	190.8	1.023	2.02	21.04	-0.04	-0.12
5/10/2024	9:48:59 AM	190.9	1.021	2.57	15.61	-0.04	-0.04
5/10/2024	9:50:01 AM	190.8	1.022	2.80	16.65	-0.04	-0.13
5/10/2024	9:51:04 AM	190.9	1.022	2.06	19.24	-0.04	-0.12
5/10/2024	9:52:07 AM	190.8	1.021	2.84	16.66	-0.04	-0.12
5/10/2024	9:53:10 AM	190.9	1.021	2.82	17.34	-0.04	-0.09
5/10/2024	9:54:13 AM	190.8	1.021	2.13	16.89	-0.05	-0.11
5/10/2024	9:55:16 AM	190.9	1.021	2.81	16.92	-0.04	-0.09
5/10/2024	9:56:18 AM	190.8	1.021	2.82	17.94	-0.03	-0.10
5/10/2024	9:57:21 AM	190.8	1.021	2.08	17.54	-0.04	-0.08
5/10/2024	9:58:24 AM	190.9	1.022	1.94	19.46	-0.04	-0.06
5/10/2024	9:59:27 AM	190.9	1.021	2.02	18.20	-0.04	-0.12
5/10/2024	10:00:30 AM	190.9	1.021	2.07	18.19	-0.05	-0.08
5/10/2024	10:01:33 AM	190.9	1.022	1.98	18.82	-0.05	-0.11
5/10/2024	10:02:35 AM	190.9	1.022	2.03	18.51	-0.04	-0.05
5/10/2024	10:03:38 AM	190.9	1.022	2.06	18.54	-0.04	-0.08
5/10/2024	10:04:41 AM	190.8	1.021	2.19	17.27	-0.04	-0.19
5/10/2024	10:05:44 AM	190.9	1.021	2.05	17.83	-0.04	-0.03
5/10/2024	10:06:47 AM	190.9	1.021	2.01	18.52	-0.05	0.01
5/10/2024	10:07:50 AM	190.9	1.022	2.00	19.21	-0.05	-0.07
5/10/2024	10:08:52 AM	190.8	1.022	2.04	18.48	-0.04	-0.03
5/10/2024	10:09:55 AM	190.8	1.022	1.96	19.49	-0.04	-0.15
5/10/2024	10:10:58 AM	190.9	1.022	2.14	18.18	-0.04	-0.10
5/10/2024	10:12:01 AM	190.9	1.021	2.12	18.16	-0.04	-0.10
5/10/2024	10:13:04 AM	190.8	1.023	2.03	21.16	-0.05	-0.09
5/10/2024	10:14:07 AM	190.8	1.022	2.11	18.21	-0.05	-0.04
5/10/2024	10:15:09 AM	190.9	1.022	2.02	18.96	-0.04	-0.18
5/10/2024	10:16:12 AM	190.9	1.023	2.03	18.96	-0.05	-0.09
5/10/2024	10:17:15 AM	190.9	1.023	2.01	19.34	-0.04	-0.10
5/10/2024	10:18:18 AM	190.9	1.023	2.04	19.53	-0.04	-0.13
5/10/2024	10:19:21 AM	190.9	1.021	2.70	17.08	-0.04	-0.14
5/10/2024	10:20:24 AM	190.9	1.022	2.79	17.29	-0.04	-0.10
5/10/2024	10:21:27 AM	190.8	1.022	2.04	19.12	-0.04	-0.11
5/10/2024	10:22:29 AM	190.9	1.022	2.12	19.54	-0.04	-0.08
5/10/2024	10:23:32 AM	190.9	1.022	2.02	18.45	-0.04	-0.09
5/10/2024	10:24:35 AM	190.8	1.022	2.00	19.01	-0.04	-0.10
5/10/2024	10:25:38 AM	190.9	1.022	2.16	17.73	-0.05	-0.07
5/10/2024	10:26:41 AM	190.9	1.023	1.53	18.45	-0.04	-0.14
5/10/2024	10:27:44 AM	190.8	1.025	2.21	17.02	-0.02	-0.15
5/10/2024	10:28:46 AM	190.7	1.031	1.57	8.71	0.00	-0.21
5/10/2024	10:29:49 AM	190.7	1.028	0.92	3.16	0.01	-0.13
5/10/2024	10:30:52 AM	190.6	1.025	0.63	1.82	0.01	-0.14
5/10/2024	10:31:55 AM	190.6	1.024	0.39	1.18	0.00	-0.10
5/10/2024	10:32:58 AM	190.5	1.023	0.19	0.61	0.00	-0.16
5/10/2024	10:34:01 AM	190.5	1.023	0.30	1.05	0.00	-0.02
5/10/2024	10:35:04 AM	190.5	1.023	0.44	1.16	0.00	0.04
5/10/2024	10:36:07 AM	190.5	1.023	0.46	1.23	0.00	-0.04
5/10/2024	10:37:09 AM	190.5	1.020	0.82	2.22	-0.02	0.09
5/10/2024	10:38:12 AM	190.5	1.014	1.98	9.46	-0.05	-0.01
5/10/2024	10:39:15 AM	190.5	1.019	2.11	14.00	-0.04	-0.12
5/10/2024	10:40:18 AM	190.6	1.021	2.18	17.64	-0.04	-0.14
5/10/2024	10:41:20 AM	190.7	1.023	1.95	19.02	-0.05	-0.12

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/10/2024	10:42:23 AM	190.7	1.021	2.13	17.30	-0.04	-0.09
5/10/2024	10:43:26 AM	190.7	1.022	2.04	18.11	-0.04	-0.12
5/10/2024	10:44:29 AM	190.7	1.023	2.00	18.95	-0.04	-0.10
5/10/2024	10:45:32 AM	190.8	1.023	2.07	19.49	-0.04	-0.14
5/10/2024	10:46:35 AM	190.7	1.022	2.05	18.35	-0.04	-0.20
5/10/2024	10:47:37 AM	190.8	1.022	1.96	19.01	-0.04	-0.01
5/10/2024	10:48:40 AM	190.7	1.022	2.12	17.90	-0.04	-0.06
5/10/2024	10:49:43 AM	190.7	1.022	1.98	19.94	-0.05	-0.07
5/10/2024	10:50:46 AM	190.8	1.022	2.08	18.18	-0.04	-0.04
5/10/2024	10:51:49 AM	190.8	1.023	1.95	19.45	-0.04	-0.06
5/10/2024	10:52:52 AM	190.8	1.022	2.01	18.78	-0.04	0.01
5/10/2024	10:53:55 AM	190.8	1.022	2.04	18.35	-0.05	-0.09
5/10/2024	10:54:57 AM	190.7	1.022	2.01	18.42	-0.05	-0.14
5/10/2024	10:56:00 AM	190.7	1.023	1.87	20.57	-0.04	-0.15
5/10/2024	10:57:03 AM	190.9	1.023	1.93	18.62	-0.04	-0.09
5/10/2024	10:58:06 AM	190.8	1.023	1.97	19.32	-0.04	-0.16
5/10/2024	10:59:09 AM	190.8	1.022	1.94	18.33	-0.04	-0.06
5/10/2024	11:00:12 AM	190.8	1.022	2.00	20.22	-0.04	-0.11
5/10/2024	11:01:15 AM	190.8	1.022	2.06	18.65	-0.05	-0.05
5/10/2024	11:02:17 AM	190.7	1.022	2.02	18.22	-0.05	-0.08
5/10/2024	11:03:20 AM	190.8	1.023	1.90	19.97	-0.04	-0.31
5/10/2024	11:04:23 AM	190.8	1.022	1.98	18.17	-0.04	-0.13
5/10/2024	11:05:26 AM	190.8	1.022	1.95	19.79	-0.05	-0.09
5/10/2024	11:06:28 AM	190.8	1.022	1.98	18.06	-0.04	-0.07
5/10/2024	11:07:31 AM	190.8	1.022	2.01	19.55	-0.05	-0.10
5/10/2024	11:08:34 AM	190.7	1.022	2.04	18.25	-0.05	-0.14
5/10/2024	11:09:37 AM	190.7	1.022	1.98	18.71	-0.05	-0.04
5/10/2024	11:10:40 AM	190.8	1.022	1.98	18.49	-0.04	-0.07
5/10/2024	11:11:43 AM	190.8	1.023	2.05	18.63	-0.04	-0.04
5/10/2024	11:12:46 AM	190.8	1.022	2.02	18.97	-0.04	-0.10
5/10/2024	11:13:48 AM	190.8	1.022	1.94	18.64	0.01	-0.13
5/10/2024	11:14:51 AM	190.8	1.023	2.08	18.63	-0.04	-0.14
5/10/2024	11:15:54 AM	190.8	1.023	1.99	19.09	-0.05	-0.16
5/10/2024	11:16:57 AM	190.8	1.022	1.98	19.14	-0.05	-0.09
5/10/2024	11:18:00 AM	190.9	1.022	2.01	18.32	-0.04	-0.13
5/10/2024	11:19:02 AM	190.8	1.023	2.03	19.63	-0.05	-0.12
5/10/2024	11:20:05 AM	190.8	1.022	1.97	19.12	-0.04	-0.17
5/10/2024	11:21:08 AM	190.8	1.022	1.94	19.13	-0.05	-0.06
5/10/2024	11:22:11 AM	190.8	1.022	2.02	18.87	-0.04	-0.06
5/10/2024	11:23:14 AM	190.8	1.022	1.93	18.33	-0.04	-0.06
5/10/2024	11:24:17 AM	190.8	1.022	1.92	18.95	-0.04	-0.12
5/10/2024	11:25:20 AM	190.8	1.022	2.02	18.72	-0.05	-0.02
5/10/2024	11:26:22 AM	190.9	1.022	2.02	19.16	-0.05	-0.10
5/10/2024	11:27:26 AM	190.8	1.023	2.03	18.39	-0.04	-0.18
5/10/2024	11:28:28 AM	190.8	1.022	2.02	19.00	-0.05	-0.13
5/10/2024	11:29:31 AM	190.9	1.022	2.04	19.57	-0.04	-0.12
5/10/2024	11:30:34 AM	190.8	1.022	2.01	17.68	-0.02	-0.11
5/10/2024	11:31:37 AM	190.8	1.022	2.06	18.18	-0.04	-0.15
5/10/2024	11:32:40 AM	190.8	1.023	1.90	19.73	-0.05	-0.23
5/10/2024	11:33:42 AM	190.8	1.022	2.05	18.33	-0.05	-0.09
5/10/2024	11:34:45 AM	190.9	1.022	2.03	19.13	-0.05	-0.08
5/10/2024	11:35:48 AM	190.8	1.023	2.04	19.59	-0.04	-0.06
5/10/2024	11:36:51 AM	190.8	1.022	2.01	17.49	-0.05	-0.08
5/10/2024	11:37:54 AM	190.8	1.022	2.00	18.90	-0.04	-0.17
5/10/2024	11:38:56 AM	190.8	1.023	2.04	19.83	-0.05	-0.12
5/10/2024	11:39:59 AM	190.8	1.031	2.56	14.80	-0.01	-0.35

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/10/2024	11:41:02 AM	190.7	1.030	1.62	6.97	-0.01	-0.14
5/10/2024	11:42:05 AM	190.7	1.027	1.10	3.58	0.00	-0.08
5/10/2024	11:43:08 AM	190.6	1.025	0.82	2.37	0.00	-0.06
5/10/2024	11:44:11 AM	190.6	1.024	0.66	1.68	-0.01	-0.03
5/10/2024	11:45:13 AM	190.6	1.023	0.74	1.79	0.00	-0.08
5/10/2024	11:46:16 AM	190.6	1.023	0.24	0.65	0.00	-0.10
5/10/2024	11:47:19 AM	190.6	1.023	0.01	0.42	0.00	-0.02
5/10/2024	11:48:22 AM	190.6	1.018	1.07	3.95	-0.04	0.14
5/10/2024	11:49:25 AM	190.5	1.014	1.31	10.89	-0.05	-0.07
5/10/2024	11:50:28 AM	190.6	1.020	2.05	17.25	-0.04	-0.18
5/10/2024	11:51:30 AM	190.7	1.021	2.05	17.65	-0.05	-0.11
5/10/2024	11:52:33 AM	190.8	1.022	2.08	17.80	-0.05	-0.13
5/10/2024	11:53:36 AM	190.7	1.022	1.95	17.71	-0.04	-0.22
5/10/2024	11:54:39 AM	190.8	1.022	2.03	20.07	-0.05	-0.12
5/10/2024	11:55:42 AM	190.8	1.022	2.77	16.68	-0.05	-0.22
5/10/2024	11:56:45 AM	190.8	1.022	2.93	17.83	-0.04	-0.14
5/10/2024	11:57:48 AM	190.8	1.022	2.16	18.43	-0.04	-0.16
5/10/2024	11:58:50 AM	190.8	1.021	2.13	17.72	-0.04	-0.10
5/10/2024	11:59:53 AM	190.8	1.023	2.15	19.57	-0.05	-0.24
5/10/2024	12:00:56 PM	190.8	1.022	2.18	17.36	-0.04	-0.10
5/10/2024	12:01:59 PM	190.8	1.022	2.07	18.13	-0.04	-0.05
5/10/2024	12:03:02 PM	190.9	1.023	2.01	20.31	-0.04	-0.08
5/10/2024	12:04:04 PM	190.9	1.021	2.18	18.88	-0.05	-0.13
5/10/2024	12:05:07 PM	190.9	1.023	2.03	20.06	-0.05	-0.02
5/10/2024	12:06:10 PM	190.9	1.022	2.02	17.90	-0.05	-0.07
5/10/2024	12:07:13 PM	190.8	1.022	2.11	18.12	-0.05	-0.07
5/10/2024	12:08:16 PM	190.8	1.022	2.08	18.58	-0.04	-0.12
5/10/2024	12:09:19 PM	190.8	1.022	2.67	16.96	-0.05	-0.11
5/10/2024	12:10:21 PM	190.7	1.022	2.01	18.93	-0.05	-0.10
5/10/2024	12:11:24 PM	190.8	1.022	2.01	19.62	-0.05	-0.13
5/10/2024	12:12:27 PM	190.8	1.022	2.08	18.35	-0.05	-0.07
5/10/2024	12:13:30 PM	190.8	1.022	2.05	18.68	-0.04	-0.12
5/10/2024	12:14:33 PM	190.8	1.022	1.97	18.77	-0.05	-0.06
5/10/2024	12:15:36 PM	190.8	1.022	1.98	18.19	-0.05	-0.07
5/10/2024	12:16:39 PM	190.7	1.022	2.14	18.72	-0.04	-0.06
5/10/2024	12:17:42 PM	190.8	1.021	2.05	18.69	-0.04	-0.14
5/10/2024	12:18:44 PM	190.8	1.021	2.08	19.63	-0.04	-0.10
5/10/2024	12:19:47 PM	190.8	1.021	2.04	18.80	-0.05	-0.06
5/10/2024	12:20:50 PM	190.8	1.021	2.08	17.50	-0.05	-0.08
5/10/2024	12:21:53 PM	190.8	1.022	1.97	20.07	-0.05	-0.06
5/10/2024	12:22:55 PM	190.8	1.021	2.03	17.29	-0.05	-0.13
5/10/2024	12:23:59 PM	190.8	1.022	2.06	20.11	-0.05	-0.08
5/10/2024	12:25:01 PM	190.8	1.022	2.00	20.91	-0.05	-0.09
5/10/2024	12:26:04 PM	190.9	1.022	2.80	16.92	-0.04	-0.14
5/10/2024	12:27:07 PM	190.7	1.021	2.82	17.74	-0.04	-0.12
5/10/2024	12:28:10 PM	190.8	1.021	2.03	19.38	-0.04	-0.07
5/10/2024	12:29:13 PM	190.8	1.021	2.12	18.32	-0.05	-0.13
5/10/2024	12:30:15 PM	190.8	1.022	2.08	19.97	-0.05	-0.12
5/10/2024	12:31:18 PM	190.8	1.022	2.09	19.22	-0.04	-0.06
5/10/2024	12:32:21 PM	190.8	1.021	2.07	19.15	-0.05	-0.08
5/10/2024	12:33:24 PM	190.8	1.021	2.05	18.62	-0.05	-0.07
5/10/2024	12:34:27 PM	190.8	1.021	2.10	18.92	-0.05	-0.08
5/10/2024	12:35:30 PM	190.8	1.021	2.76	16.88	-0.04	-0.09
5/10/2024	12:36:32 PM	190.8	1.022	2.07	19.45	-0.05	-0.04
5/10/2024	12:37:35 PM	190.8	1.022	2.06	20.11	-0.05	-0.06
5/10/2024	12:38:38 PM	190.8	1.022	2.06	18.90	-0.04	-0.13

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Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	SF6 (ppmvw)	Ethylene (ppmvw)
5/10/2024	12:39:41 PM	190.7	1.021	2.12	18.76	-0.04	-0.11
5/10/2024	12:40:44 PM	190.8	1.022	2.03	20.06	-0.05	-0.04
5/10/2024	12:41:47 PM	190.8	1.021	2.11	17.91	-0.04	-0.06
5/10/2024	12:42:49 PM	190.8	1.022	2.07	19.48	-0.05	-0.12
5/10/2024	12:43:52 PM	190.7	1.022	2.15	18.72	-0.05	-0.02
5/10/2024	12:44:55 PM	190.8	1.022	1.98	17.85	-0.05	-0.05
5/10/2024	12:45:58 PM	190.8	1.021	2.10	18.16	-0.05	0.01
5/10/2024	12:47:01 PM	190.7	1.022	2.09	19.75	-0.05	-0.11
5/10/2024	12:48:04 PM	190.8	1.021	1.99	17.84	-0.05	-0.03
5/10/2024	12:49:06 PM	190.7	1.021	2.16	18.33	-0.05	-0.14
5/10/2024	12:50:09 PM	190.8	1.021	2.12	17.31	-0.05	-0.07
5/10/2024	12:51:12 PM	190.7	1.021	2.05	20.02	-0.04	0.02
5/10/2024	12:52:15 PM	190.8	1.021	2.14	18.99	-0.05	-0.06
5/10/2024	12:53:18 PM	190.8	1.022	2.03	19.35	-0.05	-0.08
5/10/2024	12:54:21 PM	190.8	1.022	2.08	20.37	-0.05	-0.43
5/10/2024	12:55:23 PM	190.8	1.024	2.04	13.88	-0.03	-0.14
5/10/2024	12:56:26 PM	190.7	1.028	0.96	2.92	0.00	-0.09
5/10/2024	12:57:29 PM	190.7	1.026	0.25	0.75	0.00	-0.05
5/10/2024	12:58:32 PM	190.6	1.025	0.13	0.47	0.00	-0.12
5/10/2024	12:59:35 PM	190.6	1.025	-0.07	0.36	0.00	-0.06
5/10/2024	1:00:38 PM	190.6	1.025	0.04	0.27	0.00	0.02
5/10/2024	1:01:40 PM	190.6	1.025	0.05	0.19	0.00	-0.02
5/10/2024	1:02:44 PM	190.6	1.024	0.01	0.14	-0.01	-0.03
5/10/2024	1:03:46 PM	190.6	1.025	0.00	0.09	-0.01	-0.05
5/10/2024	1:04:49 PM	190.6	1.025	-0.03	0.07	0.00	-0.02
5/10/2024	1:05:52 PM	190.6	1.025	0.06	0.04	0.00	-0.07
5/10/2024	1:06:55 PM	190.5	1.025	-0.01	0.03	0.00	-0.02
5/10/2024	1:07:57 PM	190.5	1.025	0.03	0.01	0.00	-0.01
5/10/2024	1:09:00 PM	190.6	1.025	-0.04	0.01	0.00	-0.02
5/10/2024	1:10:03 PM	190.6	1.025	0.03	0.01	0.00	-0.01
5/10/2024	1:11:06 PM	190.6	1.025	0.02	0.01	0.00	-0.03
5/10/2024	1:12:09 PM	190.6	1.025	0.00	0.01	0.00	-0.02
5/10/2024	1:13:12 PM	190.6	1.025	0.05	0.01	0.00	0.00
5/10/2024	1:14:15 PM	190.6	1.025	-0.05	0.01	0.00	-0.03
5/10/2024	1:15:17 PM	190.6	1.025	0.05	0.01	0.00	-0.02
5/10/2024	1:16:20 PM	190.6	1.025	0.05	0.01	0.00	0.03
5/10/2024	1:18:53 PM	190.6	1.025	0.00	0.00	0.00	0.00
5/10/2024	1:20:02 PM	190.6	1.025	-0.06	0.00	0.00	0.01
5/10/2024	1:21:04 PM	190.6	1.024	0.05	0.00	0.00	0.01
5/10/2024	1:22:07 PM	190.6	1.011	-0.08	0.01	-0.04	85.71
5/10/2024	1:23:10 PM	190.6	1.010	0.02	0.00	-0.02	99.45
5/10/2024	1:24:13 PM	190.6	1.010	0.04	0.00	-0.03	99.21
5/10/2024	1:25:16 PM	190.5	1.010	0.05	0.00	-0.03	98.88
5/10/2024	1:26:19 PM	190.5	1.010	0.01	0.00	-0.02	98.67
5/10/2024	1:27:21 PM	190.5	1.010	-0.03	0.00	-0.02	98.61
5/10/2024	1:28:25 PM	190.5	1.019	-0.05	0.00	-0.02	11.38
5/10/2024	1:29:27 PM	190.5	1.023	-0.01	0.00	0.00	0.06
5/10/2024	1:30:30 PM	190.5	1.023	-0.01	0.00	0.00	-0.02

Last Page of Report

Appendix E: ANALYTICAL DATA PACKAGES

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Appendix	Description
E.1	Liquid Waste Analyses
E.2	Stack Gas Analyses – Polycyclic Aromatic Hydrocarbons And Polychlorinated Biphenyls

Appendix E.1

Liquid Waste Analyses



ANALYTICAL REPORT

PREPARED FOR

Attn: Jason LaCroix
Alliance Source Testing, LLC
255 Grant St. SE Suite 600
Decatur AL 35601

Generated 5/31/2024 3:26 PM

JOB DESCRIPTION

BASF Geismar, LA - WF D240/D1745

JOB NUMBER

140-36688-1

Eurofins Knoxville

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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5/31/2024 3:26 PM

Authorized for release by
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865 291-3019

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Definitions/Glossary

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▣	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Method	Method Description	Protocol	Laboratory
D1475	Density	ASTM	EET KNX
D240	Heat of Combustion	ASTM	EET KNX

Protocol References:
ASTM = ASTM International

Laboratory References:
EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-36688-1	WASTE FEED - RUN 1A	Waste	05/07/24 13:27	05/12/24 08:00
140-36688-3	WASTE FEED - RUN 2A	Waste	05/07/24 18:30	05/12/24 08:00
140-36688-5	WASTE FEED - RUN 3A	Waste	05/08/24 12:57	05/12/24 08:00
140-36688-7	WASTE FEED - RUN 4A	Waste	05/08/24 18:08	05/12/24 08:00
140-36688-9	WASTE FEED - RUN 5A	Waste	05/09/24 13:07	05/12/24 08:00
140-36688-11	WASTE FEED - RUN 6A	Waste	05/09/24 18:33	05/12/24 08:00
140-36688-13	WASTE FEED - RUN 7A	Waste	05/10/24 12:43	05/12/24 08:00
140-36688-15	WASTE FEED - RUN 4A DUP	Waste	05/08/24 18:10	05/12/24 08:00

Job Narrative
140-36688-1

Receipt

The samples were received on 5/12/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.1° C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

COC's list relinquished by client and received at on 5-11-24 at 08:00, Should be 5-12-24 at 08:00.

WASTE FEED - RUN 1A (140-36688-1), WASTE FEED - RUN 1B (140-36688-2), WASTE FEED - RUN 2A (140-36688-3), WASTE FEED - RUN 2A (140-36688-3[DU]), WASTE FEED - RUN 2B (140-36688-4), WASTE FEED - RUN 3A (140-36688-5), WASTE FEED - RUN 3B (140-36688-6), WASTE FEED - RUN 4A (140-36688-7), WASTE FEED - RUN 4B (140-36688-8), WASTE FEED - RUN 5A (140-36688-9), WASTE FEED - RUN 5B (140-36688-10), WASTE FEED - RUN 6A (140-36688-11), WASTE FEED - RUN 6B (140-36688-12), WASTE FEED - RUN 7A (140-36688-13), WASTE FEED - RUN 7B (140-36688-14), WASTE FEED - RUN 4A DUP (140-36688-15) and WASTE FEED - RUN 4B DUP (140-36688-16)

General Chemistry

Gross Calorific Value: The heat of combustion (gross calorific value) of the samples was determined using SOP number KNOX-WC-0010 (based on ASTM Method D5865 for solids and ASTM Method D240 for liquids). A waste feed sample is combusted in an oxygen bomb that has been placed in a bomb calorimeter. The energy released during this combustion process is captured in the calorimeter, and the temperature rise of a water bath surrounding the bomb is measured. The temperature rise is proportional to the heat liberated during the combustion in calories. The gross calorific value is calculated from the temperature rise, the sample weight, and the calibration coefficient of the calorimeter. Certain extraneous sources of heat are assessed, and the effect of these heat sources is accounted for in the calculation, as well as the effect of various accelerants that are added to enhance combustion of the sample. The gross heat of combustion is calculated in units of cal/g using the following equation:

$$Q \text{ (gross)} = [(\Delta tEE) - (e1+e2+e3+e4)] / m$$

Where:

Q (gross) = Gross calorific value at constant volume as determined, cal/g

EE = Heat capacity of the calorimeter, cal/°C

Δt = Corrected temperature rise as measured by the calorimeter, °C

e1 = Correction for heat of formation of nitric acid in calories, calculated by the calorimeter based on the energy released by the sample

e2 = Correction for sulfur, which is usually 0

e3 = Correction for fuse wire

e4 = Correction for spike addition that is calculated by the calorimeter using the spike weight benzoic acid equivalent (grams) times the benzoic acid heat of combustion (6318 cal/g)

m = Mass of the sample, g

The results are converted to Btu/lb, as necessary using the following conversion factor: 1 cal/g = 1.8 Btu/lb.

Method D1475: Density: The density (or specific gravity) of the samples was determined using SOP number KNOX-WC-0015, based on ASTM Methods D1475 (replaced D1963) and D854. A Hubbard-Carmick type pycnometer is tared on a four-place analytical balance. The pycnometer filled with water is weighed to calibrate the volume at the desired temperature. The pycnometer filled with sample is weighed to determine the weight of the sample at the calibrated volume. The standard temperature for this procedure is 25.0°C. The density and specific gravity of the material are calculated using the following equations:

$$d(\text{SAMP}) = [C(T) - A] / V(T)$$

Where:

d(SAMP) = Density of the liquid sample at temperature T, g/cm³

C(T) = Weight of pycnometer filled with sample at temperature T, g

A = Weight of pycnometer, g

V(T) = Volume of pycnometer at temperature T, cm³

$$d(\text{SAMP}) = [C(T) - A] / [V(T) - [(D(T) - C(T)) / dH_2O(T)]]$$

Where:

$d(\text{SAMP})$ = Density of the solid sample at temperature T, g/cm³

$D(T)$ = Weight of pycnometer filled with water and an aliquot of the sample at temperature T, g

$C(T)$ = Weight of pycnometer partially filled with an aliquot of the sample at temperature T, g

A = Weight of pycnometer, g

$dH_2O(T)$ = Density of pure water at temperature T, g/cm³

$V(T)$ = Volume of pycnometer at temperature T, cm³

$$S(T) = d(\text{SAMP}) / dH_2O(T)$$

Where:

$S(T)$ = Specific gravity of the sample at temperature T, unitless

$d(\text{SAMP})$ = Density of the sample at temperature T, g/cm³

$dH_2O(T)$ = Density of pure water at temperature T, g/cm³

T = Temperature of analysis

Conversion factors:

1 lb/gal = 0.1198 g/cm³

1 Kg/cu. m = 0.001 g/cm³

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

QC Association Summary

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

General Chemistry

Analysis Batch: 86729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36688-1	WASTE FEED - RUN 1A	Total/NA	Waste	D240	
140-36688-3	WASTE FEED - RUN 2A	Total/NA	Waste	D240	
140-36688-5	WASTE FEED - RUN 3A	Total/NA	Waste	D240	
140-36688-7	WASTE FEED - RUN 4A	Total/NA	Waste	D240	
140-36688-9	WASTE FEED - RUN 5A	Total/NA	Waste	D240	
LCS 140-86729/3	Lab Control Sample	Total/NA	Waste	D240	
LCSD 140-86729/4	Lab Control Sample Dup	Total/NA	Waste	D240	
140-36688-3 DU	WASTE FEED - RUN 2A	Total/NA	Waste	D240	

Analysis Batch: 87058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36688-1	WASTE FEED - RUN 1A	Total/NA	Waste	D1475	
140-36688-3	WASTE FEED - RUN 2A	Total/NA	Waste	D1475	
140-36688-5	WASTE FEED - RUN 3A	Total/NA	Waste	D1475	
140-36688-7	WASTE FEED - RUN 4A	Total/NA	Waste	D1475	
140-36688-9	WASTE FEED - RUN 5A	Total/NA	Waste	D1475	
140-36688-11	WASTE FEED - RUN 6A	Total/NA	Waste	D1475	
140-36688-13	WASTE FEED - RUN 7A	Total/NA	Waste	D1475	
140-36688-15	WASTE FEED - RUN 4A DUP	Total/NA	Waste	D1475	
LCS 140-87058/1	Lab Control Sample	Total/NA	Waste	D1475	
140-36688-3 DU	WASTE FEED - RUN 2A	Total/NA	Waste	D1475	

Analysis Batch: 87147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36688-11	WASTE FEED - RUN 6A	Total/NA	Waste	D240	
140-36688-13	WASTE FEED - RUN 7A	Total/NA	Waste	D240	
140-36688-15	WASTE FEED - RUN 4A DUP	Total/NA	Waste	D240	
LCS 140-87147/3	Lab Control Sample	Total/NA	Waste	D240	
LCSD 140-87147/4	Lab Control Sample Dup	Total/NA	Waste	D240	
140-36743-A-1 DU	Duplicate	Total/NA	Waste	D240	

Client Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Client Sample ID: WASTE FEED - RUN 1A

Lab Sample ID: 140-36688-1

Date Collected: 05/07/24 13:27

Matrix: Waste

Date Received: 05/12/24 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Density (ASTM D1475)	0.992		0.0100	0.0100	g/cm3			05/24/24 09:45	1
Gross Calorific Value (ASTM D240)	4930		1740	348	BTU/lb			05/16/24 08:16	1

Client Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Client Sample ID: WASTE FEED - RUN 2A
Date Collected: 05/07/24 18:30
Date Received: 05/12/24 08:00

Lab Sample ID: 140-36688-3
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Density (ASTM D1475)	0.989		0.0100	0.0100	g/cm3			05/24/24 09:45	1
Gross Calorific Value (ASTM D240)	5060		1760	351	BTU/lb			05/16/24 08:16	1

Client Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Client Sample ID: WASTE FEED - RUN 3A
Date Collected: 05/08/24 12:57
Date Received: 05/12/24 08:00

Lab Sample ID: 140-36688-5
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Density (ASTM D1475)	1.06		0.0100	0.0100	g/cm3			05/24/24 17:05	1
Gross Calorific Value (ASTM D240)	5860		1630	327	BTU/lb			05/16/24 08:16	1

Client Sample Results

Client: Alliance Source Testing, LLC

Job ID: 140-36688-1

Project/Site: BASF Geismar, LA - WF D240/D1745

Client Sample ID: WASTE FEED - RUN 4A

Lab Sample ID: 140-36688-7

Date Collected: 05/08/24 18:08

Matrix: Waste

Date Received: 05/12/24 08:00

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Density (ASTM D1475)	1.05		0.0100	0.0100	g/cm3			05/24/24 17:05	1
Gross Calorific Value (ASTM D240)	5970		1680	336	BTU/lb			05/16/24 08:16	1

Client Sample Results

Client: Alliance Source Testing, LLC

Job ID: 140-36688-1

Project/Site: BASF Geismar, LA - WF D240/D1745

Client Sample ID: WASTE FEED - RUN 5A

Lab Sample ID: 140-36688-9

Date Collected: 05/09/24 13:07

Matrix: Waste

Date Received: 05/12/24 08:00

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Density (ASTM D1475)	1.04		0.0100	0.0100	g/cm3			05/24/24 17:05	1
Gross Calorific Value (ASTM D240)	6070		1690	338	BTU/lb			05/16/24 08:16	1

Client Sample Results

Client: Alliance Source Testing, LLC

Job ID: 140-36688-1

Project/Site: BASF Geismar, LA - WF D240/D1745

Client Sample ID: WASTE FEED - RUN 6A

Lab Sample ID: 140-36688-11

Date Collected: 05/09/24 18:33

Matrix: Waste

Date Received: 05/12/24 08:00

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Density (ASTM D1475)	0.985		0.0100	0.0100	g/cm3			05/24/24 17:05	1
Gross Calorific Value (ASTM D240)	6290		1770	355	BTU/lb			05/29/24 15:14	1

Client Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Client Sample ID: WASTE FEED - RUN 7A

Lab Sample ID: 140-36688-13

Date Collected: 05/10/24 12:43

Matrix: Waste

Date Received: 05/12/24 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Density (ASTM D1475)	1.06		0.0100	0.0100	g/cm3			05/24/24 17:05	1
Gross Calorific Value (ASTM D240)	5940		1670	335	BTU/lb			05/29/24 15:14	1

Client Sample Results

Client: Alliance Source Testing, LLC

Job ID: 140-36688-1

Project/Site: BASF Geismar, LA - WF D240/D1745

Client Sample ID: WASTE FEED - RUN 4A DUP

Lab Sample ID: 140-36688-15

Date Collected: 05/08/24 18:10

Matrix: Waste

Date Received: 05/12/24 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Density (ASTM D1475)	1.05		0.0100	0.0100	g/cm3			05/24/24 17:05	1
Gross Calorific Value (ASTM D240)	6050		1600	320	BTU/lb			05/29/24 15:14	1

Default Detection Limits

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

General Chemistry

Analyte	RL	MDL	Units
Density	0.0100	0.0100	g/cm3
Gross Calorific Value	1800	360	BTU/lb

QC Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Method: D1475 - Density

Lab Sample ID: LCS 140-87058/1
Matrix: Waste
Analysis Batch: 87058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Density	0.997	0.9965		g/cm3		100	99 - 101

Lab Sample ID: 140-36688-3 DU
Matrix: Waste
Analysis Batch: 87058

Client Sample ID: WASTE FEED - RUN 2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Density	0.989		0.9899		g/cm3		0.07	10

Method: D240 - Heat of Combustion

Lab Sample ID: LCS 140-86729/3
Matrix: Waste
Analysis Batch: 86729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gross Calorific Value	20600	20370		BTU/lb		99	98 - 102

Lab Sample ID: LCSD 140-86729/4
Matrix: Waste
Analysis Batch: 86729

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gross Calorific Value	20600	20450		BTU/lb		99	98 - 102	0	2.0

Lab Sample ID: 140-36688-3 DU
Matrix: Waste
Analysis Batch: 86729

Client Sample ID: WASTE FEED - RUN 2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gross Calorific Value	5060		4881		BTU/lb		4	10

Lab Sample ID: LCS 140-87147/3
Matrix: Waste
Analysis Batch: 87147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gross Calorific Value	20600	20340		BTU/lb		99	98 - 102

Lab Sample ID: LCSD 140-87147/4
Matrix: Waste
Analysis Batch: 87147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gross Calorific Value	20600	20420		BTU/lb		99	98 - 102	0	2.0

QC Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Method: D240 - Heat of Combustion (Continued)

Lab Sample ID: 140-36743-A-1 DU
Matrix: Waste
Analysis Batch: 87147

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gross Calorific Value	9870		9790		BTU/lb		0.9	10

Lab Chronicle

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Client Sample ID: WASTE FEED - RUN 1A

Lab Sample ID: 140-36688-1

Date Collected: 05/07/24 13:27

Matrix: Waste

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			87058	05/24/24 09:45	SJF	EET KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	D240		1	0.5171 g	0.5 g	86729	05/16/24 08:16	TMB	EET KNX
		Instrument ID: NOEQUIP								

Client Sample ID: WASTE FEED - RUN 2A

Lab Sample ID: 140-36688-3

Date Collected: 05/07/24 18:30

Matrix: Waste

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			87058	05/24/24 09:45	SJF	EET KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	D240		1	0.5123 g	0.5 g	86729	05/16/24 08:16	TMB	EET KNX
		Instrument ID: NOEQUIP								

Client Sample ID: WASTE FEED - RUN 3A

Lab Sample ID: 140-36688-5

Date Collected: 05/08/24 12:57

Matrix: Waste

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			87058	05/24/24 17:05	SJF	EET KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	D240		1	0.5509 g	0.5 g	86729	05/16/24 08:16	TMB	EET KNX
		Instrument ID: NOEQUIP								

Client Sample ID: WASTE FEED - RUN 4A

Lab Sample ID: 140-36688-7

Date Collected: 05/08/24 18:08

Matrix: Waste

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			87058	05/24/24 17:05	SJF	EET KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	D240		1	0.5353 g	0.5 g	86729	05/16/24 08:16	TMB	EET KNX
		Instrument ID: NOEQUIP								

Client Sample ID: WASTE FEED - RUN 5A

Lab Sample ID: 140-36688-9

Date Collected: 05/09/24 13:07

Matrix: Waste

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			87058	05/24/24 17:05	SJF	EET KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	D240		1	0.5321 g	0.5 g	86729	05/16/24 08:16	TMB	EET KNX
		Instrument ID: NOEQUIP								

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Lab Chronicle

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Client Sample ID: WASTE FEED - RUN 6A

Lab Sample ID: 140-36688-11

Date Collected: 05/09/24 18:33

Matrix: Waste

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			87058	05/24/24 17:05	SJF	EET KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	D240		1	0.5074 g	0.5 g	87147	05/29/24 15:14	TMB	EET KNX
		Instrument ID: NOEQUIP								

Client Sample ID: WASTE FEED - RUN 7A

Lab Sample ID: 140-36688-13

Date Collected: 05/10/24 12:43

Matrix: Waste

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			87058	05/24/24 17:05	SJF	EET KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	D240		1	0.5381 g	0.5 g	87147	05/29/24 15:14	TMB	EET KNX
		Instrument ID: NOEQUIP								

Client Sample ID: WASTE FEED - RUN 4A DUP

Lab Sample ID: 140-36688-15

Date Collected: 05/08/24 18:10

Matrix: Waste

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			87058	05/24/24 17:05	SJF	EET KNX
		Instrument ID: NOEQUIP								
Total/NA	Analysis	D240		1	0.5625 g	0.5 g	87147	05/29/24 15:14	TMB	EET KNX
		Instrument ID: NOEQUIP								

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-86729/3

Date Collected: N/A

Matrix: Waste

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5125 g	0.5 g	86729	05/16/24 08:13	TMB	EET KNX
		Instrument ID: NOEQUIP								

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-87058/1

Date Collected: N/A

Matrix: Waste

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			87058	05/24/24 09:45	SJF	EET KNX
		Instrument ID: NOEQUIP								

Lab Chronicle

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-87147/3

Date Collected: N/A

Matrix: Waste

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5149 g	0.5 g	87147	05/29/24 15:14	TMB	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-86729/4

Date Collected: N/A

Matrix: Waste

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5188 g	0.5 g	86729	05/16/24 08:13	TMB	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-87147/4

Date Collected: N/A

Matrix: Waste

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5058 g	0.5 g	87147	05/29/24 15:14	TMB	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: WASTE FEED - RUN 2A

Lab Sample ID: 140-36688-3 DU

Date Collected: 05/07/24 18:30

Matrix: Waste

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1475		1			87058	05/24/24 09:45	SJF	EET KNX
Instrument ID: NOEQUIP										
Total/NA	Analysis	D240		1	0.5157 g	0.5 g	86729	05/16/24 08:16	TMB	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: Duplicate

Lab Sample ID: 140-36743-A-1 DU

Date Collected: N/A

Matrix: Waste

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5200 g	0.5 g	87147	05/29/24 15:14	TMB	EET KNX
Instrument ID: NOEQUIP										

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Alliance Source Testing, LLC
Project/Site: BASF Geismar, LA - WF D240/D1745

Job ID: 140-36688-1

Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-25
ANAB	Dept. of Energy	L2311.01	02-13-25
ANAB	ISO/IEC 17025	L2311	02-13-25
Arkansas DEQ	State	88-0688	06-17-25
Colorado	State	TN00009	02-28-25
Connecticut	State	PH-0223	10-01-26
Florida	NELAP	E87177	06-30-24
Georgia (DW)	State	906	07-27-25
Hawaii	State	NA	07-27-24
Kansas	NELAP	E-10349	10-31-24
Kentucky (DW)	State	90101	12-31-24
Louisiana (All)	NELAP	83979	06-30-24
Louisiana (DW)	State	LA019	12-31-24
Maryland	State	277	03-31-25
Michigan	State	9933	07-27-25
Nevada	State	TN00009	07-31-24
New Hampshire	NELAP	2999	01-17-25
New Jersey	NELAP	TN001	07-01-24
New York	NELAP	10781	03-31-25
North Carolina (DW)	State	21705	07-31-24
North Carolina (WW/SW)	State	64	12-31-24
Oklahoma	State	9415	08-31-24
Oregon	NELAP	TNI0189	01-01-25
Pennsylvania	NELAP	68-00576	12-31-24
Tennessee	State	02014	07-27-25
Texas	NELAP	T104704380-23-18	08-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	525-22-279-18762	10-06-25
Utah	NELAP	TN00009	07-31-24
Virginia	NELAP	460176	09-14-24
Washington	State	C593	01-19-25
West Virginia (DW)	State	9955C	12-31-24
West Virginia DEP	State	345	04-30-25
Wisconsin	State	998044300	08-31-24

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job Number: 140-36688-1

SDG No.:

Project: BASF Geismar, LA - WF D240/D1745

Client Sample ID	Lab Sample ID
WASTE FEED - RUN 1A	140-36688-1
WASTE FEED - RUN 2A	140-36688-3
WASTE FEED - RUN 3A	140-36688-5
WASTE FEED - RUN 4A	140-36688-7
WASTE FEED - RUN 5A	140-36688-9
WASTE FEED - RUN 6A	140-36688-11
WASTE FEED - RUN 7A	140-36688-13
WASTE FEED - RUN 4A DUP	140-36688-15

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 1A

Lab Sample ID: 140-36688-1

Lab Name: Eurofins Knoxville

Job No.: 140-36688-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/07/2024 13:27

Reporting Basis: WET

Date Received: 05/12/2024 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Density	0.992	0.0100	0.0100	g/cm3			1	D1475
	Gross Calorific Value	4930	1740	348	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 2A

Lab Sample ID: 140-36688-3

Lab Name: Eurofins Knoxville

Job No.: 140-36688-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/07/2024 18:30

Reporting Basis: WET

Date Received: 05/12/2024 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Density	0.989	0.0100	0.0100	g/cm3			1	D1475
	Gross Calorific Value	5060	1760	351	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 3A

Lab Sample ID: 140-36688-5

Lab Name: Eurofins Knoxville

Job No.: 140-36688-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/08/2024 12:57

Reporting Basis: WET

Date Received: 05/12/2024 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Density	1.06	0.0100	0.0100	g/cm3			1	D1475
	Gross Calorific Value	5860	1630	327	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 4A

Lab Sample ID: 140-36688-7

Lab Name: Eurofins Knoxville

Job No.: 140-36688-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/08/2024 18:08

Reporting Basis: WET

Date Received: 05/12/2024 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Density	1.05	0.0100	0.0100	g/cm3			1	D1475
	Gross Calorific Value	5970	1680	336	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 5A

Lab Sample ID: 140-36688-9

Lab Name: Eurofins Knoxville

Job No.: 140-36688-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/09/2024 13:07

Reporting Basis: WET

Date Received: 05/12/2024 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Density	1.04	0.0100	0.0100	g/cm3			1	D1475
	Gross Calorific Value	6070	1690	338	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 6A

Lab Sample ID: 140-36688-11

Lab Name: Eurofins Knoxville

Job No.: 140-36688-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/09/2024 18:33

Reporting Basis: WET

Date Received: 05/12/2024 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Density	0.985	0.0100	0.0100	g/cm3			1	D1475
	Gross Calorific Value	6290	1770	355	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 7A

Lab Sample ID: 140-36688-13

Lab Name: Eurofins Knoxville

Job No.: 140-36688-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/10/2024 12:43

Reporting Basis: WET

Date Received: 05/12/2024 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Density	1.06	0.0100	0.0100	g/cm3			1	D1475
	Gross Calorific Value	5940	1670	335	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 4A DUP

Lab Sample ID: 140-36688-15

Lab Name: Eurofins Knoxville

Job No.: 140-36688-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/08/2024 18:10

Reporting Basis: WET

Date Received: 05/12/2024 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Density	1.05	0.0100	0.0100	g/cm3			1	D1475
	Gross Calorific Value	6050	1600	320	BTU/lb			1	D240

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-36688-1
SDG No.: _____
Analyst: TMB Batch Start Date: 05/16/2024
Reporting Units: BTU/lb Analytical Batch No.: 86729

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	08:13	Gross Calorific Value	11370	11400	100	99-101		85INBENZACIDP_0001 0
2	CCV	08:13	Gross Calorific Value	11370	11400	100	99-101		85INBENZACIDP_0001 0

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-36688-1
SDG No.: _____
Analyst: TMB Batch Start Date: 05/29/2024
Reporting Units: BTU/lb Analytical Batch No.: 87147

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	15:14	Gross Calorific Value	11370	11400	100	99-101		85INBENZACIDP_00010
2	CCV	15:14	Gross Calorific Value	11370	11400	100	99-101		85INBENZACIDP_00010

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-36688-1
SDG No.: _____
Matrix: Waste

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 87058 Date: 05/24/2024 09:45								
D1475	WASTE FEED - RUN 2A	140-36688-3	Density	0.989	g/cm3			
D1475	WASTE FEED - RUN 2A	140-36688-3 DU	Density	0.9899	g/cm3	0.07	10	
Batch ID: 86729 Date: 05/16/2024 08:16								
D240	WASTE FEED - RUN 2A	140-36688-3	Gross Calorific Value	5060	BTU/lb			
D240	WASTE FEED - RUN 2A	140-36688-3 DU	Gross Calorific Value	4881	BTU/lb	4	10	
Batch ID: 87147 Date: 05/29/2024 15:14								
D240		140-36743-A-1	Gross Calorific Value	9870	BTU/lb			
D240		140-36743-A-1 DU	Gross Calorific Value	9790	BTU/lb	0.9	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville

Job No.: 140-36688-1

SDG No.:

Matrix: Waste

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 87058 Date: 05/24/2024 09:45											
						LCS Source: 85INWaterD25P_00120					
D1475	LCS 140-87058/1	Density	0.9965		g/cm3	0.997	100	99-101			
Batch ID: 86729 Date: 05/16/2024 08:13											
						LCS Source: 85NTISOCTP_00005					
D240	LCS 140-86729/3	Gross Calorific Value	20370		BTU/lb	20600	99	98-102	0	2.0	
Batch ID: 87147 Date: 05/29/2024 15:14											
						LCS Source: 85NTISOCTP_00005					
D240	LCS 140-87147/3	Gross Calorific Value	20340		BTU/lb	20600	99	98-102	0	2.0	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-36688-1

SDG No.:

Matrix: Waste

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 86729 Date: 05/16/2024 08:13											
LCSD Source: 85NTISOCTP_00005											
D240	LCSD 140-86729/4	Gross Calorific Value	20450		BTU/lb	20600	99	98-102	0	2.0	
Batch ID: 87147 Date: 05/29/2024 15:14											
LCSD Source: 85NTISOCTP_00005											
D240	LCSD 140-87147/4	Gross Calorific Value	20420		BTU/lb	20600	99	98-102	0	2.0	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job Number: 140-36688-1
SDG Number: _____
Matrix: Waste Instrument ID: NOEQUIP
Method: D1475 RL Date: 01/01/2015 13:16

Analyte	Wavelength/ Mass	RL (g/cm3)	
Density		0.01	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job Number: 140-36688-1
SDG Number: _____
Matrix: Waste Instrument ID: NOEQUIP
Method: D1475 XRL Date: 01/01/2015 15:46

Analyte	Wavelength/ Mass	XRL (g/cm3)	
Density		0.01	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job Number: 140-36688-1
SDG Number: _____
Matrix: Waste Instrument ID: NOEQUIP
Method: D240 MDL Date: 09/25/2019 10:07

Analyte	Wavelength/ Mass	RL (BTU/lb)	MDL (BTU/lb)
Gross Calorific Value		1800	360

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job Number: 140-36688-1
SDG Number: _____
Matrix: Waste Instrument ID: NOEQUIP
Method: D240 XMDL Date: 01/28/2015 15:50

Analyte	Wavelength/ Mass	XRL (BTU/lb)	XMDL (BTU/lb)
Gross Calorific Value		1800	130

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-36688-1
SDG No.: _____
Instrument ID: NOEQUIP Analysis Method: D1475
Start Date: 05/24/2024 09:45 End Date: 05/24/2024 17:05

Lab Sample Id	D/F	T y p e	Time	D e n	Analytes																									
LCS 140-87058/1	1	T	09:45	X																										
ZZZZZZ			09:45																											
ZZZZZZ			09:45																											
ZZZZZZ			09:45																											
ZZZZZZ			09:45																											
ZZZZZZ			09:45																											
ZZZZZZ			09:45																											
140-36688-1	1	T	09:45	X																										
140-36688-3	1	T	09:45	X																										
140-36688-3 DU	1	T	09:45	X																										
140-36688-5	1	T	17:05	X																										
140-36688-7	1	T	17:05	X																										
140-36688-9	1	T	17:05	X																										
140-36688-11	1	T	17:05	X																										
140-36688-13	1	T	17:05	X																										
140-36688-15	1	T	17:05	X																										

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-36688-1
SDG No.: _____
Instrument ID: NOEQUIP Analysis Method: D240
Start Date: 05/16/2024 08:13 End Date: 05/16/2024 08:16

Lab Sample Id	D/F	T Y P e	Time	Analytes																	
				G C V																	
CCV 140-86729/1	1		08:13	X																	
CCV 140-86729/2	1		08:13	X																	
LCS 140-86729/3	1	T	08:13	X																	
LCSD 140-86729/4	1	T	08:13	X																	
ZZZZZZ			08:13																		
ZZZZZZ			08:13																		
ZZZZZZ			08:13																		
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ZZZZZZ			08:13																		
ZZZZZZ			08:15																		
140-36688-1	1	T	08:16	X																	
140-36688-3	1	T	08:16	X																	
140-36688-3 DU	1	T	08:16	X																	
140-36688-5	1	T	08:16	X																	
140-36688-7	1	T	08:16	X																	
140-36688-9	1	T	08:16	X																	

Prep Types: _____
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-36688-1
SDG No.: _____
Instrument ID: NOEQUIP Analysis Method: D240
Start Date: 05/29/2024 15:14 End Date: 05/29/2024 15:15

Lab Sample Id	D/F	T Y P e	Time	Analytes																	
				G C V																	
CCV 140-87147/1	1		15:14	X																	
CCV 140-87147/2	1		15:14	X																	
LCS 140-87147/3	1	T	15:14	X																	
LCSD 140-87147/4	1	T	15:14	X																	
140-36688-11	1	T	15:14	X																	
140-36688-13	1	T	15:14	X																	
140-36688-15	1	T	15:14	X																	
ZZZZZZ			15:14																		
140-36743-A-1 DU	1	T	15:14	X																	
ZZZZZZ			15:14																		
ZZZZZZ			15:14																		
ZZZZZZ			15:14																		
ZZZZZZ			15:14																		
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ZZZZZZ			15:15																		

Prep Types: _____
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36688-1

SDG No.: _____

Batch Number: 87058 Batch Start Date: 05/24/24 09:45 Batch Analyst: Forrest-Bank, Solana J

Batch Method: D1475 Batch End Date: 05/24/24 17:05

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	85INWater25P 00327	85INWaterD25P 00120				
LCS 140-87058/1		D1475			1 mL	1 mL				

Batch Notes

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36688-1

SDG No.: _____

Batch Number: 86729 Batch Start Date: 05/16/24 08:13 Batch Analyst: Bunch, Taylor MBatch Method: D240 Batch End Date: 05/17/24 12:17

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	BombId	CalSmpNo	BombEE	TapeWt
CCV 140-86729/1		D240			1.0582 g	0.5 g	1	4402	2363.23 Cal/Degree C	
CCV 140-86729/2		D240			1.0763 g	0.5 g	4	4403	2380.28 Cal/Degree C	
LCS 140-86729/3		D240			0.5125 g	0.5 g	1	4404	2365.81 Cal/Degree C	0.0426 g
LCSD 140-86729/4		D240			0.5188 g	0.5 g	4	4405	2385.40 Cal/Degree C	0.0426 g
140-36688-A-1	WASTE FEED - RUN 1A	D240	Waste	T	0.5171 g	0.5 g	4	4428	2385.40 Cal/Degree C	0.0429 g
140-36688-A-3	WASTE FEED - RUN 2A	D240	Waste	T	0.5123 g	0.5 g	1	4429	2365.81 Cal/Degree C	0.0426 g
140-36688-A-3 DU	WASTE FEED - RUN 2A	D240	Waste	T	0.5157 g	0.5 g	4	4430	2385.40 Cal/Degree C	0.0437 g
140-36688-A-5	WASTE FEED - RUN 3A	D240	Waste	T	0.5509 g	0.5 g	1	4434	2365.81 Cal/Degree C	0.0466 g
140-36688-A-7	WASTE FEED - RUN 4A	D240	Waste	T	0.5353 g	0.5 g	4	4432	2385.40 Cal/Degree C	0.0435 g
140-36688-A-9	WASTE FEED - RUN 5A	D240	Waste	T	0.5321 g	0.5 g	1	4433	2365.81 Cal/Degree C	0.0431 g

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1OctanolWgt	FuseCorr	BAE	TempChg	AcidCorr	HeatofComb
CCV 140-86729/1		D240				15.00 Cal	0 g	2.8398 Degrees C	10.00 Cal	6318.371341901 34 Cal/g
CCV 140-86729/2		D240				15.00 Cal	0 g	2.8675 Degrees C	10.00 Cal	6318.361887949 46 Cal/g
LCS 140-86729/3		D240				15.00 Cal	0.042141500474 8338 g	2.5741 Degrees C	10.00 Cal	11314.30540682 93 Cal/g
LCSD 140-86729/4		D240				15.00 Cal	0.042141500474 8338 g	2.5932 Degrees C	10.00 Cal	11361.92999228 99 Cal/g
140-36688-A-1	WASTE FEED - RUN 1A	D240	Waste	T	0.4414 g	15.00 Cal	0.721235739157 961 g	2.5145 Degrees C	10.00 Cal	2738.969058209 24 Cal/g
140-36688-A-3	WASTE FEED - RUN 2A	D240	Waste	T	0.4821 g	15.00 Cal	0.783528584995 252 g	2.7117 Degrees C	10.00 Cal	2810.918167089 6 Cal/g
140-36688-A-3 DU	WASTE FEED - RUN 2A	D240	Waste	T	0.4848 g	15.00 Cal	0.788768882557 771 g	2.6859 Degrees C	10.00 Cal	2711.855846422 34 Cal/g
140-36688-A-5	WASTE FEED - RUN 3A	D240	Waste	T	0.4554 g	15.00 Cal	0.746425514403 292 g	2.7617 Degrees C	10.00 Cal	3254.204169540 75 Cal/g
140-36688-A-7	WASTE FEED - RUN 4A	D240	Waste	T	0.4313 g	15.00 Cal	0.706297214308 325 g	2.6258 Degrees C	10.00 Cal	3318.134728189 8 Cal/g

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36688-1

SDG No.: _____

Batch Number: 86729 Batch Start Date: 05/16/24 08:13 Batch Analyst: Bunch, Taylor MBatch Method: D240 Batch End Date: 05/17/24 12:17

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1OctanolWgt	FuseCorr	BAE	TempChg	AcidCorr	HeatofComb
140-36688-A-9	WASTE FEED - RUN 5A	D240	Waste	T	0.4523 g	15.00 Cal	0.738195916429 25 g	2.7401 Degrees C	10.00 Cal	3370.859201277 95 Cal/g

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	85INBENZACIDP 00010	85NTISOOCTP 00005				
CCV 140-86729/1		D240			1.0582 mL					
CCV 140-86729/2		D240			1.0763 mL					
LCS 140-86729/3		D240				0.5125 g				
LCSD 140-86729/4		D240				0.5188 g				
140-36688-A-1	WASTE FEED - RUN 1A	D240	Waste	T						
140-36688-A-3	WASTE FEED - RUN 2A	D240	Waste	T						
140-36688-A-3 DU	WASTE FEED - RUN 2A	D240	Waste	T						
140-36688-A-5	WASTE FEED - RUN 3A	D240	Waste	T						
140-36688-A-7	WASTE FEED - RUN 4A	D240	Waste	T						
140-36688-A-9	WASTE FEED - RUN 5A	D240	Waste	T						

Batch Notes	
Perform Calculation (0=No, 1=Yes)	Yes
Nominal Amount Used	0.5 g
Heat of Combustion Value of Tape	6250 Cal/g
Heat of Combustion Value of Paper	3937.3 Cal/g

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

D240

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville

Job No.: 140-36688-1

SDG No.:

Batch Number: 87147

Batch Start Date: 05/29/24 15:14

Batch Analyst: Bunch, Taylor M

Batch Method: D240

Batch End Date: 05/31/24 11:50

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	BombId	CalSmpNo	BombEE	TapeWt
CCV 140-87147/1		D240			1.0416 g	0.5 g	1	4511	2364.10 Cal/Degree C	
CCV 140-87147/2		D240			1.0335 g	0.5 g	4	4512	2380.33 Cal/Degree C	
LCS 140-87147/3		D240			0.5149 g	0.5 g	1	4513	2365.85 Cal/Degree C	0.0423 g
LCSD 140-87147/4		D240			0.5058 g	0.5 g	4	4514	2390.36 Cal/Degree C	0.0426 g
140-36688-A-11	WASTE FEED - RUN 6A	D240	Waste	T	0.5074 g	0.5 g	1	4515	2365.85 Cal/Degree C	0.0417 g
140-36688-A-13	WASTE FEED - RUN 7A	D240	Waste	T	0.5381 g	0.5 g	4	4518	2390.36 Cal/Degree C	0.0434 g
140-36688-A-15	WASTE FEED - RUN 4A DUP	D240	Waste	T	0.5625 g	0.5 g	1	4517	2365.85 Cal/Degree C	0.0424 g
140-36743-A-1 DU		D240		T	0.5200 g	0.5 g	1	4520	2365.85 Cal/Degree C	0.0424 g

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1OctanolWgt	FuseCorr	BAE	TempChg	AcidCorr	HeatofComb
CCV 140-87147/1		D240				15.00 Cal	0 g	2.7944 Degrees C	10.00 Cal	6318.395775729 65 Cal/g
CCV 140-87147/2		D240				15.00 Cal	0 g	2.7538 Degrees C	10.00 Cal	6318.290037735 85 Cal/g
LCS 140-87147/3		D240				15.00 Cal	0.041844729344 7293 g	2.5811 Degrees C	10.00 Cal	11297.57318896 87 Cal/g
LCSD 140-87147/4		D240				15.00 Cal	0.042141500474 8338 g	2.5227 Degrees C	10.00 Cal	11346.20635033 61 Cal/g
140-36688-A-11	WASTE FEED - RUN 6A	D240	Waste	T	0.3065 g	15.00 Cal	0.512595599873 378 g	2.1293 Degrees C	10.00 Cal	3496.305488766 26 Cal/g
140-36688-A-13	WASTE FEED - RUN 7A	D240	Waste	T	0.5344 g	15.00 Cal	0.864748401392 846 g	3.0384 Degrees C	10.00 Cal	3297.508686117 82 Cal/g
140-36688-A-15	WASTE FEED - RUN 4A DUP	D240	Waste	T	0.4627 g	15.00 Cal	0.753496866096 866 g	2.8213 Degrees C	10.00 Cal	3358.541164444 44 Cal/g
140-36743-A-1 DU		D240		T	0.2818 g	15.00 Cal	0.475303703703 704 g	2.4753 Degrees C	10.00 Cal	5438.884048076 92 Cal/g

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	85INBENZACIDP 00010	85NTISOCTP 00005				
CCV 140-87147/1		D240			1.0416 mL					
CCV 140-87147/2		D240			1.0335 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

D240

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36688-1

SDG No.: _____

Batch Number: 87147 Batch Start Date: 05/29/24 15:14 Batch Analyst: Bunch, Taylor MBatch Method: D240 Batch End Date: 05/31/24 11:50

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	85INBENZACIDP 00010	85NTISOOCTP 00005				
LCS 140-87147/3		D240				0.5149 g				
LCSD 140-87147/4		D240				0.5058 g				
140-36688-A-11	WASTE FEED - RUN 6A	D240	Waste	T						
140-36688-A-13	WASTE FEED - RUN 7A	D240	Waste	T						
140-36688-A-15	WASTE FEED - RUN 4A DUP	D240	Waste	T						
140-36743-A-1 DU		D240		T						

Batch Notes	
Perform Calculation (0=No, 1=Yes)	Yes
Nominal Amount Used	0.5 g
Heat of Combustion Value of Tape	6250 Cal/g
Heat of Combustion Value of Paper	3937.3 Cal/g

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

D240

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General Chemistry Raw Data Report

Job ID: 140-36688-1

Batch: 87058
Method: D1475

Analyst Initials: SJF
Instrument: NONE

Lab Sample ID: LCS 140-87058/1

Analysis Date: May 24, 2024 09:45

Analyte	Detector	Dilution	Raw Result	Unit
Density	None	1	0.9965	g/cm3

Lab Sample ID: 140-36688-A-1

Analysis Date: May 24, 2024 09:45

Analyte	Detector	Dilution	Raw Result	Unit
Density	None	1	0.9916	g/cm3

Lab Sample ID: 140-36688-A-3

Analysis Date: May 24, 2024 09:45

Analyte	Detector	Dilution	Raw Result	Unit
Density	None	1	0.9892	g/cm3

Lab Sample ID: 140-36688-A-3 DU

Analysis Date: May 24, 2024 09:45

Analyte	Detector	Dilution	Raw Result	Unit
Density	None	1	0.9899	g/cm3

Lab Sample ID: 140-36688-A-5

Analysis Date: May 24, 2024 17:05

Analyte	Detector	Dilution	Raw Result	Unit
Density	None	1	1.0560	g/cm3

Lab Sample ID: 140-36688-A-7

Analysis Date: May 24, 2024 17:05

Analyte	Detector	Dilution	Raw Result	Unit
Density	None	1	1.0482	g/cm3

Lab Sample ID: 140-36688-A-9

Analysis Date: May 24, 2024 17:05

Analyte	Detector	Dilution	Raw Result	Unit
Density	None	1	1.0368	g/cm3

Lab Sample ID: 140-36688-A-11

Analysis Date: May 24, 2024 17:05

Analyte	Detector	Dilution	Raw Result	Unit
Density	None	1	0.9850	g/cm3

Lab Sample ID: 140-36688-A-13

Analysis Date: May 24, 2024 17:05

Analyte	Detector	Dilution	Raw Result	Unit
Density	None	1	1.0577	g/cm3

Lab Sample ID: 140-36688-A-15

Analysis Date: May 24, 2024 17:05

Analyte	Detector	Dilution	Raw Result	Unit
Density	None	1	1.0468	g/cm3

**Eurofins Knoxville
SOP KNOX-WC-0015
Density Data Worksheet**

Report Density (y/n)?
Report Specific Gravity (y/n)?

Balance ID: W3
Thermometer ID: W5

Analysis Date:	05/24/2024	(mm/dd/yyyy)
Analysis H ₂ O Temp.:	25.0	°C
Density of Water:	0.9971	(g/cm ³)

Reviewed by:	SFB
Date:	5/24/2024
Density of Water:	8.3210 (lb/gal)

[illegible]

Pycnometer Initial Calibration Worksheet

[illegible]

Eurofins Knoxville Density Data Review / Narrative Checklist
Methods: ASTM D-854, D-1475 by SOP: KNOX-WC-0015, Rev. 7
Page 1 of 1

Analytical Batch:	87058, 87059	Analysis Date:	5/24/24
Job(s):	36787, 36788, 36688		

Review Items	N/A	Y	N	If No, why is data reportable?	2nd √
Section 1: Calibration					
1. Was the balance calibration checked prior to use?		X			X
2. Was an initial calibration performed for the pycnometers and were the %RSDs<0.5%		X			X
3. Were the dry pycnometer reading(s) within 0.01 g of the average from the initial calibration?		X			X
Section 2: Preparation/Matrix QC					
1. LCS done per batch of up to twenty samples?		X			X
2. LCS/LCSD recoveries within laboratory established QC limits? (99-101%Recovery) If no, list LCS ID:		X			X
3. Was a duplicate sample analyzed per batch of up to ten samples?		X			X
4. DU RPD ≤ 10% If no, list ID:		X			X
B. Client Sample and QC Sample Results					
1. Were all job/project requirements met?		X			X
2. Were sample IDs verified?		X			X
3. Were all transcriptions checked?		X			X
4. Calculations checked for error?		X			X
5. Batch information complete?		X			X
6. Correct analyst identified?		X			X
7. Worksheet complete?		X			X
8. Reagents tab complete and correct?		X			X
D. Other					
1. Are all nonconformances documented appropriately?	X				X
2. Correct Narrative NCM chosen?		X		✓ [5869]	X
3. Final report acceptable? (Results correct, units correct, deviations noted in narrative, and analysis dates correct.)		X			X

Reviewed by: SFB	Date: 5/24/2024	2nd Level Reviewer: DCW	Date: 5/28/24
Comments:		Comments:	

General Chemistry Raw Data Report

Job ID: 140-36688-1

Batch: 86729
Method: D240Analyst Initials: TMB
Instrument: NONE

Lab Sample ID: CCV 140-86729/1

Analysis Date: May 16, 2024 08:13

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	13372.201108	Cal/g	1.0582 g	0.5 g

Lab Sample ID: CCV 140-86729/2

Analysis Date: May 16, 2024 08:13

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	13600.9058	Cal/g	1.0763 g	0.5 g

Lab Sample ID: LCS 140-86729/3

Analysis Date: May 16, 2024 08:13

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	11597.163042	Cal/g	0.5125 g	0.5 g

Lab Sample ID: LCSD 140-86729/4

Analysis Date: May 16, 2024 08:13

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	11789.13856	Cal/g	0.5188 g	0.5 g

Lab Sample ID: 140-36688-A-1

Analysis Date: May 16, 2024 08:16

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	2832.6418	Cal/g	0.5171 g	0.5 g

Lab Sample ID: 140-36688-A-3

Analysis Date: May 16, 2024 08:16

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	2880.066754	Cal/g	0.5123 g	0.5 g

Lab Sample ID: 140-36688-A-3 DU

Analysis Date: May 16, 2024 08:16

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	2797.00812	Cal/g	0.5157 g	0.5 g

Lab Sample ID: 140-36688-A-5

Analysis Date: May 16, 2024 08:16

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	3585.482154	Cal/g	0.5509 g	0.5 g

Lab Sample ID: 140-36688-A-7

Analysis Date: May 16, 2024 08:16

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	3552.39504	Cal/g	0.5353 g	0.5 g

Lab Sample ID: 140-36688-A-9

Analysis Date: May 16, 2024 08:16

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	3587.268362	Cal/g	0.5321 g	0.5 g

Eurofins Knoxville

TestAmerica Knoxville
Calorimeter Calibration Worksheet

Determination of Energy Equivalent (EE)
per SOP KNOX-WC-0010

Initial Calibration Data

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	Mean EE (cal/°C)	SD EE (cal/°C)	%RSD (%)
<i>BOMB ID=1</i>					
CCV-042624-1	04/26/24	2364.9000	2365.8120	6.3	0.27%
CCV-042924-1	04/29/24	2356.3000			
CCV-043024-1	04/30/24	2366.8300			
CCV-050124-1	05/01/24	2380.3200			
CCV-050324-1	05/03/24	2362.0300			
CCV-050724-1	05/07/24	2364.3300			
CCV-050924-1	05/09/24	2362.0300			
CCV-051024-1	05/10/24	2368.5100			
CCV-051324-1	05/13/24	2369.6400			
CCV-051624-1	05/16/24	2363.2300			

Daily Calibration Check Standard

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	ICAL Mean EE (cal/°C)	%D (%)
CCV-051624-1	05/16/24	2363.2300	2365.8120	0.1%

TestAmerica Laboratories
Bomb Calorimeter Data Worksheet
Measurement of Heat of Combustion
per SOP KNOX-WC-0010

Sample ID: CCV-051624-1
 Work Order Number: NA
 Analysis Date: 05/16/2024
 Std. or Determination? STD
 Analyst: TMB

Gross Heat of Combustion (cal/g): NA
 Gross Heat of Combustion (Btu/lb): NA

Bomb Calorimeter Data Report

Part	Sample ID: 4402 05/16/24 08:46:38		
Method	Dynamic Type	Final	TMB 5/16/24
Standardization Bomb ID	1		
Temp	19.0873 EE Value	2363.23	
Net T	30.0025 Temp. Rise	2.8398	
Weight	1.05820 Spike Wght	0.00000	
Acid	15.0000 Acid	10.0000	
Sulfur	0.00000		
Gross Heat		11385.6	
		Btu/lb	

TestAmerica Knoxville
Calorimeter Calibration Worksheet
Determination of Energy Equivalent (EE)
per SOP KNOX-WC-0010

Initial Calibration Data

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	Mean EE (cal/°C)	SD EE (cal/°C)	%RSD (%)
<i>BOMB ID=4</i>					
CCV-042624-4	04/26/24	2379.4500	2385.4000	5.7	0.24%
CCV-042924-4	04/29/24	2380.7300			
CCV-043024-4	04/30/24	2390.8600			
CCV-050124-4	05/01/24	2393.0400			
CCV-050324-4	05/03/24	2387.4700			
CCV-050724-4	05/07/24	2378.6300			
CCV-050924-4	05/09/24	2388.9300			
CCV-051024-4	05/10/24	2392.1000			
CCV-051324-4	05/13/24	2382.5100			
CCV-051624-4	05/16/24	2380.2800			

Daily Calibration Check Standard

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	ICAL Mean EE (cal/°C)	%D (%)
CCV-051624-4	05/16/24	2380.2800	2385.4000	0.2%

TestAmerica Laboratories
Bomb Calorimeter Data Worksheet
Measurement of Heat of Combustion
per SOP KNOX-WC-0010

Sample ID: CCV-051624-4
Work Order Number: NA
Analysis Date: 05/16/2024
Std. or Determination? STD
Analyst: TMB

Gross Heat of Combustion (cal/g): NA
Gross Heat of Combustion (Btu/lb): NA

Bomb Calorimeter Data Report

Parr	4403	05/16/24	08:54:08	
Sample ID:	4403	05/16/24	08:54:08	
Method	Dynamic Type		Final	
Standardization Bomb ID			4	
Temp	19.1123	EE Value	2380.28	
Weight T	30.0001	Temp. Rise	2.8675	
Weight	1.07630	Spike Wght	0.00000	
Vol	15.0000	Acid	10.0000	
Water	0.00000			
		Gross Heat	11397.7	
			Btu/lb	

TMB
5/16/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4404 05/16/24 09:01:57

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 21.8886 EE Value 2365.81

Jacket T 30.0025 Temp. Rise 2.5741

Weight 0.51250 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21301.3

Btu/lb

TMB
5/16/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4407 05/16/24 10:34:28

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 23.4130 EE Value 2365.81

Jacket T 30.0045 Temp. Rise 2.1553

Weight 0.53520 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 17065.0

Btu/lb

TMB
5/16/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4405 05/16/24 09:09:09

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 21.9802 EE Value 2385.40

Jacket T 30.0029 Temp. Rise 2.5932

Weight 0.51880 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21374.8

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4408 05/16/24 11:20:48

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 21.8396 EE Value 2385.40

Jacket T 30.0021 Temp. Rise 3.1226

Weight 0.59460 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 22473.0

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4410 05/16/24 11:55:19

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 25.0754 EE Value 2365.81

Jacket T 30.0036 Temp. Rise 3.6031

Weight 0.68780 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 22243.0

Btu/lb

TMB
5/16/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4415 05/16/24 13:01:14

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 28.5542 EE Value 2365.81

Jacket T 30.0038 Temp. Rise 2.2024

Weight 0.51990 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 17953.1

Btu/lb

TMB
5/16/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4411 05/16/24 12:05:09

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 23.7806 EE Value 2385.40

Jacket T 30.0045 Temp. Rise 2.6751

Weight 0.56470 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20260.3

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4416 05/16/24 13:07:57

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 27.2321 EE Value 2385.40

Jacket T 30.0032 Temp. Rise 3.9993

Weight 0.49280 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 34754.5

Btu/lb

TMB
5/16/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4414 05/16/24 12:40:22

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 26.7420 EE Value 2365.81

Jacket T 30.0048 Temp. Rise 3.4487

Weight 0.53760 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 27234.0

Btu/lb

TMB
5/16/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4418 05/16/24 13:28:35

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 28.4551 EE Value 2365.81

Jacket T 30.0048 Temp. Rise 2.3658

Weight 0.56410 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 17779.9

Btu/lb

TMB
5/16/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4417 05/16/24 13:21:39

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 30.2689 EE Value 2385.40

Jacket T 30.0056 Temp. Rise 2.4638

Weight 0.55480 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 18987.1

Btu/lb

TMB
5/16/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4419 05/16/24 13:35:36

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 31.4590 EE Value 2385.40

Jacket T 30.0057 Temp. Rise 2.8149

Weight 0.52190 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 23071.8

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4420 05/16/24 13:42:39

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 29.8471 EE Value 2365.81

Jacket T 30.0052 Temp. Rise 2.2892

Weight 0.52980 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 18315.2

Btu/lb

5/14/24

TMB

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4422 05/16/24 13:56:16

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 31.0212 EE Value 2365.81

Jacket T 30.0073 Temp. Rise 2.3572

Weight 0.56050 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 17829.0

Btu/lb

TMB
5/14/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4421 05/16/24 13:49:38

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 32.8649 EE Value 2385.40

Jacket T 30.0059 Temp. Rise 2.4231

Weight 0.50920 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20343.6

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4423 05/16/24 14:03:28

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 33.7682 EE Value 2385.40

Jacket T 30.0085 Temp. Rise 2.8425

Weight 0.59730 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20358.3

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4427 05/17/24 07:46:50

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 19.1386 EE Value 2365.81

Jacket T 30.0031 Temp. Rise 3.9802

Weight 0.54390 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 31080.1

Btu/lb

TMB
5/17/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4426 05/16/24 14:27:52

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 34.0323 EE Value 2365.81

Jacket T 30.0043 Temp. Rise 3.1770

Weight 0.51900 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 25981.0

Btu/lb

TMB
5/16/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4425 05/16/24 14:17:38

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 34.8446 EE Value 2385.40

Jacket T 30.0082 Temp. Rise 3.1770

Weight 0.53440 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 25442.2

Btu/lb

TMB
5/16/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4428 05/17/24 08:13:41

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 19.3661 EE Value 2385.40

Jacket T 30.0044 Temp. Rise 2.5145

Weight 0.51710 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20791.7

Btu/lb

TMB
5/17/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4429 05/17/24 08:35:51

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 22.1426 EE Value 2365.81

Jacket T 30.0073 Temp. Rise 2.7117

Weight 0.51230 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 22453.2

Btu/lb

TMB
5/17/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4434 05/17/24 11:05:15

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 24.3837 EE Value 2365.81

Jacket T 30.0040 Temp. Rise 2.7617

Weight 0.55090 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21266.5

Btu/lb

TMB
5/17/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4430 05/17/24 08:42:37

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 21.5071 EE Value 2385.40

Jacket T 30.0037 Temp. Rise 2.6859

Weight 0.51570 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 22275.9

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4432 05/17/24 10:42:38

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 21.6179 EE Value 2385.40

Jacket T 30.0012 Temp. Rise 2.6258

Weight 0.53530 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20978.1

Btu/lb

TMB
5/17/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4433 05/17/24 10:50:02

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 21.9670 EE Value 2365.81

Jacket T 30.0034 Temp. Rise 2.7401

Weight 0.53210 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21845.1

Btu/lb

TMB
5/17/24

Eurofins TestAmerica Knoxville Heat of Combustion Data Review / Narrative Checklist

Methods: ASTM D5865, D240 by SOP KNOX-WC-0010, Rev. 8

Page 1 of 1

Batch Number:	86729	Job Number(s):	140-36624, 140-36616, 140-36732, 140-36688		
Analysis Date:	5/17/2024	Analyst Name:	TMB	Method Citation	<input type="checkbox"/> D5865 <input checked="" type="checkbox"/> D240

Review Items	N/A	Y	N	If No, why is data reportable?	2nd √
Section 1. Calibration					
1. Was a weekly calibration check performed for each bomb/bucket combination and %D ≤ 1%?		X			X
2. Is the %D for the weekly calibration check ≤1%?		X		If not ≤1.0%, discard data and repeat.	X
3. Was the final weekly calibration successful? (%D ≤1.0%)		X			X
4. Is the initial calibration complete, with at least ten calibration runs?		X			X
5. Are the previous ten calibration runs recorded on the calorimeter calibration worksheet?		X			X
6. Does the rolling average show a %RSD ≤1.0%?		X			X
Section 2. Client Sample Analysis					
1. Were all special project requirements met? (Review Project Notes, Project Documents, and Comments in Backlog)		X			X
2. Were sample IDs verified?		X			X
3. Were all weights entered directly into TALS?		X			X
4. Were all transcriptions checked? (Check transcription of data from calorimeter to TALS worksheet (Δt, Acid Correction)		X			X
5. Were any data collected by writing the values on paper?			N		X
6. Are all written entries neat, professional, and scanned into the documents section of the TALS batch?	N/A				X
7. Calculations checked for error? (Verify that the final instrument result = calculated result on spreadsheet (to 3 significant figures))		X			X
Section 3. Preparation/Matrix QC					
1. LCS/LCSD done per batch of up to twenty samples?		X			X
2. LCS/LCSD recoveries within laboratory established QC limits? (98-102%)		X			X
3. LCS/LCSD RPD within laboratory established QC limits?(≤2.0% RPD)		X			X
4. Was a duplicate sample analyzed per batch of up to 10 samples?		X			X
5. DUP RPD ≤10.0%? If no, list ID:		X		____ [F5] OS &/or DUP < 5xRL, absolute difference <RL ____ [Option] MS/MSD/DUP-%RPD.NCM:_____	X
Section 4. TALS Reporting					
1. If Batch Information Complete?		X			X
2. Batch QC linked correctly?		X			X
3. Is raw data from calorimeter and calibration summary attached as a default file?		X			X
4. Are all non-conformances documented (NCM Manager)?	N/A			NCM Number(s): _____	X
5. Was appropriate narrative NCM added (NCM Create/Edit)?		X		<input checked="" type="checkbox"/> [5853]	X
6. Final report acceptable? (Results, units, analysis dates are correct. Flags and/or errors were addressed.)		X			X

Reviewed by: TMB	Date: 5/17/2024
Comments:	
2 nd Level Reviewer: DCW	Date: 5/17/24
Comments:	

General Chemistry Raw Data Report

Job ID: 140-36688-1

Batch: 87147
Method: D240

Analyst Initials: TMB
Instrument: NONE

Lab Sample ID: CCV 140-87147/1

Analysis Date: May 29, 2024 15:14

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	13162.48208	Cal/g	1.0416 g	0.5 g

Lab Sample ID: CCV 140-87147/2

Analysis Date: May 29, 2024 15:14

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	13059.905508	Cal/g	1.0335 g	0.5 g

Lab Sample ID: LCS 140-87147/3

Analysis Date: May 29, 2024 15:14

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	11634.24087	Cal/g	0.5149 g	0.5 g

Lab Sample ID: LCSD 140-87147/4

Analysis Date: May 29, 2024 15:14

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	11477.822344	Cal/g	0.5058 g	0.5 g

Lab Sample ID: 140-36688-A-11

Analysis Date: May 29, 2024 15:14

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	3548.05081	Cal/g	0.5074 g	0.5 g

Lab Sample ID: 140-36688-A-13

Analysis Date: May 29, 2024 15:14

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	3548.778848	Cal/g	0.5381 g	0.5 g

Lab Sample ID: 140-36688-A-15

Analysis Date: May 29, 2024 15:14

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	3778.35881	Cal/g	0.5625 g	0.5 g

Lab Sample ID: 140-36743-A-1 DU

Analysis Date: May 29, 2024 15:14

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	5656.43941	Cal/g	0.5200 g	0.5 g

TestAmerica Knoxville
Calorimeter Calibration Worksheet
Determination of Energy Equivalent (EE)
per SOP KNOX-WC-0010

Initial Calibration Data

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	Mean EE (cal/°C)	SD EE (cal/°C)	%RSD (%)
BOMB ID=1					
CCV-050324-1	05/03/24	2362.0300	2365.8500	4.5	0.19%
CCV-050724-1	05/07/24	2364.3300			
CCV-050924-1	05/09/24	2362.0300			
CCV-051024-1	05/10/24	2368.5100			
CCV-051324-1	05/13/24	2369.6400			
CCV-051624-1	05/16/24	2363.2300			
CCV-052024-1	05/20/24	2375.8600			
CCV-052224-1	05/22/24	2361.4300			
CCV-052324-1	05/23/24	2367.3400			
CCV-053024-1	05/30/24	2364.1000			

Daily Calibration Check Standard

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	ICAL Mean EE (cal/°C)	%D (%)
CCV-053024-1	05/30/24	2364.1000	2365.8500	0.1%

TestAmerica Laboratories
Bomb Calorimeter Data Worksheet
Measurement of Heat of Combustion
per SOP KNOX-WC-0010

Sample ID: CCU-053024-1
Work Order Number: NA
Analysis Date: 05 / 30 / 2024
Std. or Determination? STD
Analyst: TMB

Gross Heat of Combustion (cal/g): NA
Gross Heat of Combustion (Btu/lb): NA

Bomb Calorimeter Data Report

Parr 6200 Calorimeter Rev. 190314104420			
Sample ID:	4511	05/30/24	08:16:51
Method	Dynamic Type	Final	
Standardization Bomb ID		1	
Cell Temp	18.5885	EE Value	2364.10
Sample T	30.0026	Temp. Rise	2.7944
Sample Wt	1.04160	Spike Wght	0.00000
Sample	15.0000	Acid	10.0000
Sulfur	0.00000		
Gross Heat		11381.6	
		Btu/lb	

TMB
5/30/24

TestAmerica Knoxville
Calorimeter Calibration Worksheet
Determination of Energy Equivalent (EE)
per SOP KNOX-WC-0010

Initial Calibration Data

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	Mean EE (cal/°C)	SD EE (cal/°C)	%RSD (%)
<i>BOMB ID=4</i>					
CCV-050724-4	05/07/24	2378.6300	2390.3640	13.2	0.55%
CCV-050924-4	05/09/24	2388.9300			
CCV-051024-4	05/10/24	2392.1000			
CCV-051324-4	05/13/24	2382.5100			
CCV-051624-4	05/16/24	2380.2800			
CCV-052024-4a	05/20/24	2418.4000			
CCV-052024-4b	05/20/24	2407.4700			
CCV-052224-4	05/22/24	2381.8100			
CCV-052324-4	05/23/24	2393.1800			
CCV-053024-4	05/30/24	2380.3300			

Daily Calibration Check Standard

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	ICAL Mean EE (cal/°C)	%D (%)
CCV-053024-4	05/30/24	2380.3300	2390.3640	0.4%

TestAmerica Laboratories
Bomb Calorimeter Data Worksheet
Measurement of Heat of Combustion
per SOP KNOX-WC-0010

Sample ID: CCV-053024-4
 Work Order Number: NA
 Analysis Date: 05/30/2024
 Std. or Determination? STD
 Analyst: Tmb

Gross Heat of Combustion (cal/g): NA
 Gross Heat of Combustion (Btu/lb): NA

Bomb Calorimeter Data Report

Parr 620	05/30/24	08:24:51	420
Sample ID:	4512	05/30/24	08:24:51
Method	Dynamic Type	Final	
Standardization Bomb ID			4
Temp	18.5525	EE Value	2380.33
Net T	30.0036	Temp. Rise	2.7538
Weight	1.03350	Spike Wght	0.00000
Acid	15.0000	Acid	10.0000
Sulfur	0.00000		
	Gross Heat		11421.2
			Btu/lb

Tmb
5/30/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4513 05/30/24 08:32:04

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 21.3368 EE Value 2365.85

Jacket T 29.9314 Temp. Rise 2.5811

Weight 0.51490 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21260.1

Btu/lb

TmB
5/30/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4514 05/30/24 08:39:13

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 21.2978 EE Value 2390.36

Jacket T 29.9838 Temp. Rise 2.5227

Weight 0.50580 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21370.7

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4515 05/30/24 09:11:21

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 22.7874 EE Value 2365.85

Jacket T 30.0041 Temp. Rise 2.1293

Weight 0.50740 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 17782.2

Btu/lb

TmB
5/30/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4518 05/30/24 10:37:08

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 21.7621 EE Value 2390.36

Jacket T 30.0033 Temp. Rise 3.0384

Weight 0.53810 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 24211.2

Btu/lb

TmB
5/30/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4517 05/30/24 10:21:25

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 22.8978 EE Value 2365.85

Jacket T 30.0025 Temp. Rise 2.8213

Weight 0.56250 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21279.4

Btu/lb

TMB
5/30/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4520 05/30/24 11:11:48

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 23.9451 EE Value 2365.85

Jacket T 30.0051 Temp. Rise 2.4753

Weight 0.52000 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20184.9

Btu/lb

TMB
5/30/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4519 05/30/24 11:04:48

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 24.2278 EE Value 2390.36

Jacket T 30.0028 Temp. Rise 2.4223

Weight 0.52550 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19747.1

Btu/lb

TMB
5/30/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4521 05/30/24 11:54:26

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 24.7259 EE Value 2390.36

Jacket T 30.0035 Temp. Rise 2.3639

Weight 0.51380 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19708.4

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4522 05/30/24 12:02:16

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 25.3267 EE Value 2365.85

Jacket T 30.0036 Temp. Rise 2.4228

Weight 0.52890 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19422.4

Btu/lb

TMB
5/30/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4524 05/30/24 12:51:21

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 25.4596 EE Value 2365.85

Jacket T 30.0022 Temp. Rise 2.4415

Weight 0.51110 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20255.1

Btu/lb

TMB
5/30/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4523 05/30/24 12:40:40

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 25.3494 EE Value 2390.36

Jacket T 30.0034 Temp. Rise 2.4580

Weight 0.53040 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19855.0

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4525 05/30/24 13:13:03

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 26.4822 EE Value 2390.36

Jacket T 30.0016 Temp. Rise 2.3935

Weight 0.52750 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19437.5

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4526 05/30/24 14:11:38

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 25.3347 EE Value 2365.85

Jacket T 30.0051 Temp. Rise 2.6044

Weight 0.51770 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21336.7

Btu/lb

TMB
5/31/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4529 05/30/24 14:50:18

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 26.3413 EE Value 2365.85

Jacket T 30.0052 Temp. Rise 1.9876

Weight 0.50930 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 16531.2

Btu/lb

TMB
5/31/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4527 05/30/24 14:19:08

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 26.0299 EE Value 2390.36

Jacket T 30.0044 Temp. Rise 2.7390

Weight 0.54700 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21462.6

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4530 05/30/24 15:02:20

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 27.0471 EE Value 2390.36

Jacket T 30.0072 Temp. Rise 2.1538

Weight 0.50430 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 18287.3

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4531 05/30/24 15:11:45

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 27.4233 EE Value 2365.85

Jacket T 30.0023 Temp. Rise 3.2890

Weight 0.50870 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 27445.4

Btu/lb

TMB
5/31/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4533 05/31/24 08:17:24

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 18.7979 EE Value 2365.85

Jacket T 30.0035 Temp. Rise 2.7456

Weight 0.52090 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 22360.1

Btu/lb

TMB
5/31/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4532 05/30/24 15:27:01

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 27.8939 EE Value 2390.36

Jacket T 30.0043 Temp. Rise 2.0462

Weight 0.48700 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 17985.4

Btu/lb

TMB
5/31/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4534 05/31/24 08:24:29

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 18.6286 EE Value 2390.36

Jacket T 30.0041 Temp. Rise 3.5360

Weight 0.54540 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 27812.8

Btu/lb

TMB
5/31/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4537 05/31/24 08:49:21

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 23.8531 EE Value 2365.85

Jacket T 30.0530 Temp. Rise 2.9045

Weight 0.53610 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 22988.3

Btu/lb

TMB
5/31/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4540 05/31/24 10:06:53

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 23.4766 EE Value 2365.85

Jacket T 30.0019 Temp. Rise 3.8316

Weight 0.53750 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 30273.8

Btu/lb

TMB
5/31/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4539 05/31/24 09:59:49

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 23.4081 EE Value 2390.36

Jacket T 30.0023 Temp. Rise 2.4467

Weight 0.51690 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20279.3

Btu/lb

TMB
5/31/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4542 05/31/24 10:34:18

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 26.6543 EE Value 2390.36

Jacket T 30.0037 Temp. Rise 2.4702

Weight 0.54000 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19599.1

Btu/lb

TMB
5/31/24

Eurofins TestAmerica Knoxville Heat of Combustion Data Review / Narrative Checklist

Methods: ASTM D5865, D240 by SOP KNOX-WC-0010, Rev. 8

Page 1 of 1

Batch Number:	87147	Job Number(s):	140-36688, 140-36743, 240-205078		
Analysis Date:	5/31/2024	Analyst Name:	TMB	Method Citation	<input type="checkbox"/> D5865 <input checked="" type="checkbox"/> D240

Review Items	N/A	Y	N	If No, why is data reportable?	2nd √
Section 1. Calibration					
1. Was a weekly calibration check performed for each bomb/bucket combination and %D \leq 1%?		X			X
2. Is the %D for the weekly calibration check \leq 1%?		X		If not \leq 1.0%, discard data and repeat.	X
3. Was the final weekly calibration successful? (%D \leq 1.0%)		X			X
4. Is the initial calibration complete, with at least ten calibration runs?		X			X
5. Are the previous ten calibration runs recorded on the calorimeter calibration worksheet?		X			X
6. Does the rolling average show a %RSD \leq 1.0%?		X			X
Section 2. Client Sample Analysis					
1. Were all special project requirements met? (Review Project Notes, Project Documents, and Comments in Backlog)		X			X
2. Were sample IDs verified?		X			X
3. Were all weights entered directly into TALS?		X			X
4. Were all transcriptions checked? (Check transcription of data from calorimeter to TALS worksheet (Δt , Acid Correction))		X			X
5. Were any data collected by writing the values on paper?			N		X
6. Are all written entries neat, professional, and scanned into the documents section of the TALS batch?	N/A				X
7. Calculations checked for error? (Verify that the final instrument result = calculated result on spreadsheet (to 3 significant figures))		X			X
Section 3. Preparation/Matrix QC					
1. LCS/LCSD done per batch of up to twenty samples?		X			X
2. LCS/LCSD recoveries within laboratory established QC limits? (98-102%)		X			X
3. LCS/LCSD RPD within laboratory established QC limits? (\leq 2.0% RPD)		X			X
4. Was a duplicate sample analyzed per batch of up to 10 samples?			N	Duplicate sample analyzed per batch of up to 20 samples per SOP.	X
5. DUP RPD \leq 10.0%? If no, list ID: 140-36743-A-2-DU			N	X [F5] OS &/or DUP < 5xRL, absolute difference < RL [Option] MS/MSD/DUP-%RPD.NCM: _____	X
Section 4. TALS Reporting					
1. If Batch Information Complete?		X			X
2. Batch QC linked correctly?		X			X
3. Is raw data from calorimeter and calibration summary attached as a default file?		X			X
4. Are all non-conformances documented (NCM Manager)?		X		NCM Number(s): 140-56071	X
5. Was appropriate narrative NCM added (NCM Create/Edit)?		X		<input checked="" type="checkbox"/> [5853]	X
6. Final report acceptable? (Results, units, analysis dates are correct. Flags and/or errors were addressed.)		X			X

Reviewed by: TMB	Date: 5/31/2024
Comments:	
2 nd Level Reviewer: DCW	Date: 5/31/24
Comments:	

Shipping and Receiving Documents

Knoxville, TN 37921-5947

phone 865.291.3000 fax 865.584.4315

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Jason LaCroix		Site Contact:		Date:		COC No:	
Alliance Source Testing		AST Office: BTR		Lab Contact:		Carrier:		1 of 2 COCs	
Address 6110 Copperhead Road		Analysis Turnaround Time		Perform MS / MSD (Y / N)				Sampler:	
City/State/Zip Geismar, LA, 70734		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		ASTM D240 - Higher Heating Value				For Lab Use Only:	
256-351-0121 Phone		TAT if different from Below		ASTM D1745 - Density				Walk-in Client:	
BTRreports@stacktest.com		2 weeks						Lab Sampling:	
Project Name: BASF 24-2573		1 week						SDG No.:	
Site: BASF Geismar, LA		2 days							
P O #		1 day							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	ASTM D240 - Higher Heating Value	ASTM D1745 - Density	Sample Specific Notes:
Waste Feed - Run 1A	5/7/24	1327	C	WF	1				
Waste Feed - Run 1B	5/7/24	1328	C	WF	1				Archive at Lab
Waste Feed - Run 2A	5/7/24	1830	C	WF	1				
Waste Feed - Run 2B	5/7/24	1831	C	WF	1				Archive at Lab
Waste Feed - Run 3A	5/8/24	1257	C	WF	1				
Waste Feed - Run 3B	5/8/24	1258	C	WF	1				Archive at Lab
Waste Feed - Run 4A	5/8/24	1808	C	WF	1				
Waste Feed - Run 4B	5/8/24	1809	C	WF	1				Archive at Lab
Waste Feed - Run 5A	5/9/24	1307	C	WF	1				
Waste Feed - Run 5B	5/9/24	1308	C	WF	1				Archive at Lab

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Special Instructions/QC Requirements & Comments: Higher Heating Value and Density

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C):	Obs'd:	Cor'd:	Therm ID No.:
Relinquished by: J. LaCroix	Company: Alliance	Received by: J. LaCroix	Company: Alliance	Date/Time: 5/10/24 1906	Date/Time: 5/10/24 1906
Relinquished by: T. Hestert	Company: Alliance	Received by: J. LaCroix	Company: Alliance	Date/Time: 5/11/24 0902	Date/Time: 5/11/24 0902
Relinquished by:	Company:	Received in Laboratory by:	Company:	Date/Time:	Date/Time:

EUROFINS KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	HAND DELIVERED NO CUSTODY SEALS RECEIVED AMBIENT (RT 21.0) / CT 21.1 C DID 5-11-24 5-12-24 10 J LIDS WERE REINFORCED AND RECAUGED AT 11:04 ON 5-11-24 08:00, SHOWN BY 5-12-24 08:00
2. Were ambient air containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Yes <input type="checkbox"/> NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID : <u>SC16</u> Correction factor: <u>+0.1 C</u>	<input checked="" type="checkbox"/>			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC & Samples Do Not Match <input checked="" type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC; No Date/Time; Client Contacted	
10. Was the sampler identified on the COC?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
15. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Holding Time - Receipt	
16. Were samples received with correct chemical preservative (excluding Encore)?	<input checked="" type="checkbox"/>			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	
17. Were VOA samples received without headspace?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:	<input checked="" type="checkbox"/>				
19. For 1613B water samples is pH<9?	<input checked="" type="checkbox"/>			<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Project missing info	
Project #: _____ PM Instructions: _____					

Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative:	
Lot Number:	
Exp Date:	
Analyst:	
Date:	
Time:	

Appendix E.2

Stack Gas Analyses –

Polycyclic Aromatic Hydrocarbons And Polychlorinated Biphenyls



ANALYTICAL REPORT

PREPARED FOR

Attn: Jason LaCroix
Alliance Source Testing LLC
255 Grant St. SE Suite 600
Decatur AL 35601

Generated 9/6/2024 2:43 PM Revision 5

JOB DESCRIPTION

BASF M23 PAH/PCB

JOB NUMBER

140-36689-1

Eurofins Knoxville

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



Generated
9/6/2024 2:43 PM
Revision 5

Authorized for release by
Courtney M Adkins, Project Manager II
Courtney.Adkins@et.eurofinsus.com
865 291-3019

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Definitions/Glossary

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
C	The compound co-eluted with other compounds
C129	The compound co-eluted with PCB-129
C156	The compound co-eluted with PCB-156
C20	The compound co-eluted with PCB-20
C90	The compound co-eluted with PCB-90
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
S	Ion suppression

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method	Method Description	Protocol	Laboratory
23	Chlorinated Biphenyl Congeners (Stationary Source)	EPA	EET KNX
23	Polycyclic Aromatic Hydrocarbons (Stationary Source)	EPA	EET KNX
Combined Prep	Extraction, Source Air Samples (Combined)	None	EET KNX
Split	Source Air Split	None	EET KNX

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-36689-1	M23-NO.3 BOILER-RUN 1 COMBINED	Air	05/07/24 14:30	05/12/24 08:00
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	Air	05/07/24 19:40	05/12/24 08:00
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	Air	05/08/24 15:00	05/12/24 08:00
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	Air	05/08/24 19:00	05/12/24 08:00
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	Air	05/09/24 15:20	05/12/24 08:00
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	Air	05/09/24 19:15	05/12/24 08:00
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	Air	05/10/24 13:45	05/12/24 08:00
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	Air	05/08/24 13:00	05/12/24 08:00
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAL COMBINED	Air	05/07/24 00:00	05/12/24 08:00

Job Narrative
140-36689-1

Revision

The report being provided is a revision of the original report sent on 6/27/2024.

Report revision history

Revision 0 - 6/27/2024 - Reason - Updating PCB target list to match QAPP.

Revision 1 - 6/27/2024 - Reason - Updating the PCB analyte list to match the QAPP.

Revision 2 - 7/12/2024 - Reason - Updated to include RL/MDL/EDL.

Revision 3 - 7/26/2024 - Reason - Client wants EDL, RL and MDL all reported.

Revision 4 - 7/26/2024 - Reason - RL/MDL/EDL for PAHs not showing on final report.

Revision 5 - 9/4/2024 - Reason - Report is being revised to include a table with IDA corrected field surrogate recoveries.

Receipt

The samples were received on 5/12/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.7° C, 4.4° C and 5.2° C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

COC shows client relinquished and lab received samples 5-11-24 0800. Should be 5-12-24 0800

High-Res

The Pre-Sampling Adsorbent Standards and Pre-Extraction Filter Recovery Standard for the PAH analysis were not quantitated by isotope dilution technique, but rather by internal standards that were added after extraction & concentration. These standards were removed from the final report forms. The recoveries were recalculated by isotope dilution technique outside the LIMS system and are presented in a table in the narrative. The target analytes were quantitated by isotope dilution technique.

Sample #	13C6-Benzo(c)fluorene	13C12-Benzo(j)fluoranthene	Anthracene-d10
1	122	104	81
2	132	99	73
3	134	99	21
4	138	98	15
5	112	102	58
6	129	101	87
7	133	100	52
8	124	111	111

The EPA Method 23 states to quantitate the sample results against the continuing calibration verification. Knoxville's approach is to quantitate the sample results against the initial calibration, consistent with other Hi-Res methodology.

The reporting limit (RL) and method detection limit (MDL) for the PAH analytes have not been established. The MDL is set equal to the RL. The reporting limit is supported by the initial calibration.

The Pre-Extraction Filter Surrogate, PCB-159L, was not spiked onto the filter due to unavailability of the standard when the extraction started.

Method 23: The method blank for preparation batch 140-87205 and 140-87336 contained Phenanthrene above the reporting limit (RL). The entire sample was consumed during extraction, therefore, the data have been reported.

Method 23: The filter surrogate recovery for Anthracene-d10 associated with the following sample(s) is below QC limits, even after recalculating against its respective IDA. See the table in the narrative for the recovery: M23-NO.3 BOILER-RUN 5 COMBINED (140-36689-5).

Method 23: The filter surrogate recovery for Anthracene-d10 is below QC limits for the following samples even after recalculating against its respective IDA. See the table in the narrative for recovery: M23-NO.3 BOILER-RUN 3 COMBINED (140-36689-3) and M23-NO.3 BOILER-RUN 4 COMBINED (140-36689-4).

Method 23: The filter surrogate recovery for Anthracene-d10 was below QC limits, and field surrogate 13C6-Benzo(c)fluorene was above QC limits after recalculating against their respective IDA for the following sample: M23-NO.3 BOILER-RUN 7 COMBINED (140-36689-7). See the table in the narrative for recoveries.

Method 23: Field surrogate 13C6-Benzo(c)fluorene was above QC limits after recalculating against its respective IDA for the following samples. See the table in the narrative for recovery.

M23-NO.3 BOILER-RUN 2 COMBINED (140-36689-2), M23-NO.3 BOILER-RUN 3 COMBINED (140-36689-3) and M23-NO.3 BOILER-RUN 4 COMBINED (140-36689-4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

PAH Filter Surrogate Anthracene-d10 was spiked 10 x lower than the method requirement. Recoveries were calculated based on the amount spiked.

Method Split: The following samples required a Gel-Permeation clean up, via EPA method 3640A, to reduce matrix interference: M23-NO.3 BOILER-RUN 1 COMBINED (140-36689-1), M23-NO.3 BOILER-RUN 2 COMBINED (140-36689-2), M23-NO.3 BOILER-RUN 3 COMBINED (140-36689-3), M23-NO.3 BOILER-RUN 4 COMBINED (140-36689-4), M23-NO.3 BOILER-RUN 5 COMBINED (140-36689-5), M23-NO.3 BOILER-RUN 6 COMBINED (140-36689-6), M23-NO.3 BOILER-RUN 7 COMBINED (140-36689-7), M23-NO.3 BOILER-RUN FB COMBINED (140-36689-8) and M23 MEDIA CHECK A-2171 FILTER, A-2170 XAD COMBINED (140-36689-14).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

QC Association Summary

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Specialty Organics

Prep Batch: 87205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36689-1	M23-NO.3 BOILER-RUN 1 COMBINED	Total/NA	Air	Combined Prep	
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	Total/NA	Air	Combined Prep	
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	Total/NA	Air	Combined Prep	
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	Total/NA	Air	Combined Prep	
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	Total/NA	Air	Combined Prep	
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	Total/NA	Air	Combined Prep	
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	Total/NA	Air	Combined Prep	
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	Total/NA	Air	Combined Prep	
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAC	Total/NA	Air	Combined Prep	
MB 140-87205/17-B	Method Blank	Total/NA	Air	Combined Prep	
LCS 140-87205/15-B	Lab Control Sample	Total/NA	Air	Combined Prep	
LCSD 140-87205/16-B	Lab Control Sample Dup	Total/NA	Air	Combined Prep	

Prep Batch: 87206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36689-1	M23-NO.3 BOILER-RUN 1 COMBINED	Total/NA	Air	Combined Prep	
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	Total/NA	Air	Combined Prep	
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	Total/NA	Air	Combined Prep	
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	Total/NA	Air	Combined Prep	
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	Total/NA	Air	Combined Prep	
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	Total/NA	Air	Combined Prep	
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	Total/NA	Air	Combined Prep	
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	Total/NA	Air	Combined Prep	
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAC	Total/NA	Air	Combined Prep	
MB 140-87206/17-B	Method Blank	Total/NA	Air	Combined Prep	
LCS 140-87206/15-B	Lab Control Sample	Total/NA	Air	Combined Prep	
LCSD 140-87206/16-B	Lab Control Sample Dup	Total/NA	Air	Combined Prep	

Cleanup Batch: 87335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36689-1	M23-NO.3 BOILER-RUN 1 COMBINED	Total/NA	Air	Split	87206
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	Total/NA	Air	Split	87206
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	Total/NA	Air	Split	87206
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	Total/NA	Air	Split	87206
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	Total/NA	Air	Split	87206
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	Total/NA	Air	Split	87206
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	Total/NA	Air	Split	87206
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	Total/NA	Air	Split	87206
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAC	Total/NA	Air	Split	87206
MB 140-87206/17-B	Method Blank	Total/NA	Air	Split	87206
LCS 140-87206/15-B	Lab Control Sample	Total/NA	Air	Split	87206
LCSD 140-87206/16-B	Lab Control Sample Dup	Total/NA	Air	Split	87206

Cleanup Batch: 87336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36689-1	M23-NO.3 BOILER-RUN 1 COMBINED	Total/NA	Air	Split	87205
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	Total/NA	Air	Split	87205
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	Total/NA	Air	Split	87205
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	Total/NA	Air	Split	87205
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	Total/NA	Air	Split	87205
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	Total/NA	Air	Split	87205

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QC Association Summary

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Specialty Organics (Continued)

Cleanup Batch: 87336 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	Total/NA	Air	Split	87205
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	Total/NA	Air	Split	87205
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAL	Total/NA	Air	Split	87205
MB 140-87205/17-B	Method Blank	Total/NA	Air	Split	87205
LCS 140-87205/15-B	Lab Control Sample	Total/NA	Air	Split	87205
LCSD 140-87205/16-B	Lab Control Sample Dup	Total/NA	Air	Split	87205

Analysis Batch: 87502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36689-1	M23-NO.3 BOILER-RUN 1 COMBINED	Total/NA	Air	23	87335
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	Total/NA	Air	23	87335
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	Total/NA	Air	23	87335
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	Total/NA	Air	23	87335
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	Total/NA	Air	23	87335
MB 140-87206/17-B	Method Blank	Total/NA	Air	23	87335
LCS 140-87206/15-B	Lab Control Sample	Total/NA	Air	23	87335
LCSD 140-87206/16-B	Lab Control Sample Dup	Total/NA	Air	23	87335

Analysis Batch: 87536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	Total/NA	Air	23	87335
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	Total/NA	Air	23	87335
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	Total/NA	Air	23	87335

Analysis Batch: 87571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAL	Total/NA	Air	23	87335

Analysis Batch: 87921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 140-87205/17-B	Method Blank	Total/NA	Air	23	87336
LCS 140-87205/15-B	Lab Control Sample	Total/NA	Air	23	87336
LCSD 140-87205/16-B	Lab Control Sample Dup	Total/NA	Air	23	87336

Analysis Batch: 87947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36689-1	M23-NO.3 BOILER-RUN 1 COMBINED	Total/NA	Air	23	87336
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	Total/NA	Air	23	87336
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	Total/NA	Air	23	87336
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	Total/NA	Air	23	87336

Analysis Batch: 88048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	Total/NA	Air	23	87336
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	Total/NA	Air	23	87336
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	Total/NA	Air	23	87336
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAL	Total/NA	Air	23	87336

Analysis Batch: 88079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	Total/NA	Air	23	87336

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 1 COMBINED

Lab Sample ID: 140-36689-1

Date Collected: 05/07/24 14:30

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.445	J S	0.600	0.132	0.0214	ng/Sample		06/11/24 16:04	1
PCB-18	ND	C	0.600	0.285	0.00432	ng/Sample		06/11/24 16:04	1
PCB-28	0.535	J C20 B	0.600	0.252	0.0128	ng/Sample		06/11/24 16:04	1
PCB-44	4.00	C	0.900	0.390	0.0232	ng/Sample		06/11/24 16:04	1
PCB-52	0.364		0.300	0.132	0.0245	ng/Sample		06/11/24 16:04	1
PCB-66	0.156	J q	0.300	0.120	0.0179	ng/Sample		06/11/24 16:04	1
PCB-77	0.120	J	0.300	0.126	0.0204	ng/Sample		06/11/24 16:04	1
PCB-81	ND		0.300	0.0960	0.0213	ng/Sample		06/11/24 16:04	1
PCB-101	0.149	J C90	0.900	0.390	0.00560	ng/Sample		06/11/24 16:04	1
PCB-105	0.0473	J	0.300	0.102	0.0103	ng/Sample		06/11/24 16:04	1
PCB-114	0.0224	J	0.300	0.165	0.0106	ng/Sample		06/11/24 16:04	1
PCB-118	0.0526	J q B	0.300	0.183	0.00963	ng/Sample		06/11/24 16:04	1
PCB-123	ND		0.300	0.171	0.0109	ng/Sample		06/11/24 16:04	1
PCB-126	ND		0.300	0.123	0.0114	ng/Sample		06/11/24 16:04	1
PCB-128	ND	C	0.600	0.204	0.00423	ng/Sample		06/11/24 16:04	1
PCB-138	0.0783	J q C129	1.20	0.510	0.00439	ng/Sample		06/11/24 16:04	1
PCB-153	0.0883	J C B	0.600	0.249	0.00380	ng/Sample		06/11/24 16:04	1
PCB-156	ND	C	0.600	0.255	0.00457	ng/Sample		06/11/24 16:04	1
PCB-157	ND	C156	0.600	0.255	0.00457	ng/Sample		06/11/24 16:04	1
PCB-167	ND		0.300	0.180	0.00310	ng/Sample		06/11/24 16:04	1
PCB-169	ND		0.300	0.123	0.00308	ng/Sample		06/11/24 16:04	1
PCB-170	0.00865	J q	0.300	0.132	0.000256	ng/Sample		06/11/24 16:04	1
PCB-180	0.0200	J C	0.600	0.204	0.000194	ng/Sample		06/11/24 16:04	1
PCB-187	0.0142	J q	0.300	0.126	0.000206	ng/Sample		06/11/24 16:04	1
PCB-189	ND		0.300	0.147	0.00284	ng/Sample		06/11/24 16:04	1
PCB-195	ND		0.300	0.159	0.00362	ng/Sample		06/11/24 16:04	1
PCB-206	ND		0.300	0.171	0.0388	ng/Sample		06/11/24 16:04	1
PCB-209	0.0199	J q B	0.300	0.138	0.00514	ng/Sample		06/11/24 16:04	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	55		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-3L	62		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-4L	64		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-15L	42	S	20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-19L	69		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-37L	80		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-54L	69	S	20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-77L	83		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-81L	81		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-104L	88		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-105L	92		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-114L	92		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-118L	90		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-123L	92		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-126L	92		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-155L	90		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-156L	89	C	20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-157L	89	C156	20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-167L	86		20 - 145	05/31/24 12:09	06/11/24 16:04	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 1 COMBINED

Lab Sample ID: 140-36689-1

Date Collected: 05/07/24 14:30

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	87		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-170L	92		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-188L	91		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-189L	90		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-202L	92		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-205L	89		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-206L	96		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-208L	98		20 - 145	05/31/24 12:09	06/11/24 16:04	1
PCB-209L	105		20 - 145	05/31/24 12:09	06/11/24 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	77		20 - 130	05/31/24 12:09	06/11/24 16:04	1
PCB-111L	80		20 - 130	05/31/24 12:09	06/11/24 16:04	1
PCB-178L	82		20 - 130	05/31/24 12:09	06/11/24 16:04	1
PCB-8L	98	S	70 - 130	05/31/24 12:09	06/11/24 16:04	1
PCB-79L	103		70 - 130	05/31/24 12:09	06/11/24 16:04	1
PCB-95L	106		70 - 130	05/31/24 12:09	06/11/24 16:04	1
PCB-153L	93		70 - 130	05/31/24 12:09	06/11/24 16:04	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	393	B	75.0	75.0	1.46	ng/Sample		06/21/24 20:25	1
2-Methylnaphthalene	340	B	75.0	75.0	0.698	ng/Sample		06/21/24 20:25	1
Acenaphthylene	16.3	B	3.00	3.00	0.601	ng/Sample		06/21/24 20:25	1
Acenaphthene	64.1	B	30.0	30.0	0.794	ng/Sample		06/21/24 20:25	1
Fluorene	175	B	30.0	30.0	0.778	ng/Sample		06/21/24 20:25	1
Phenanthrene	533	B	6.00	6.00	0.920	ng/Sample		06/21/24 20:25	1
Anthracene	49.6	B	30.0	30.0	0.803	ng/Sample		06/21/24 20:25	1
Fluoranthene	91.3	B	6.00	6.00	0.297	ng/Sample		06/21/24 20:25	1
Pyrene	82.4	B	6.00	6.00	0.315	ng/Sample		06/21/24 20:25	1
Benzo[a]anthracene	3.78	J B	6.00	6.00	0.211	ng/Sample		06/21/24 20:25	1
Chrysene	15.0	B	6.00	6.00	0.206	ng/Sample		06/21/24 20:25	1
Benzo[b]fluoranthene	6.13	J B	30.0	30.0	0.124	ng/Sample		06/21/24 20:25	1
Benzo[k]fluoranthene	2.33	J B	6.00	6.00	0.118	ng/Sample		06/21/24 20:25	1
Benzo[e]pyrene	21.4	B	6.00	6.00	0.108	ng/Sample		06/21/24 20:25	1
Benzo[a]pyrene	5.16	B	3.00	3.00	0.104	ng/Sample		06/21/24 20:25	1
Perylene	2.27	J B	3.00	3.00	0.0940	ng/Sample		06/21/24 20:25	1
Indeno[1,2,3-cd]pyrene	11.5	B	3.00	3.00	0.124	ng/Sample		06/21/24 20:25	1
Dibenz(a,h)anthracene	1.27	J B	6.00	6.00	0.0866	ng/Sample		06/21/24 20:25	1
Benzo[g,h,i]perylene	73.2	B	6.00	6.00	0.0986	ng/Sample		06/21/24 20:25	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	53		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C6-2-Methylnaphthalene	59		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C6-Acenaphthylene	82		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C6-Acenaphthene	76		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C6-Fluorene	82		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C6-Fluoranthrene	85		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C3-Pyrene	81		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C6-Benzo(a)anthracene	76		20 - 130	05/31/24 12:03	06/21/24 20:25	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 1 COMBINED

Lab Sample ID: 140-36689-1

Date Collected: 05/07/24 14:30

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	75		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C6-Benzo(b)fluoranthene	84		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C6-Benzo(k)fluoranthene	84		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C4-Benzo(e)pyrene	76		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C4-Benzo(a)pyrene	86		20 - 130	05/31/24 12:03	06/21/24 20:25	1
Perylene-d12	89		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C6-Indeno(1,2,3-cd)pyrene	86		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C6-Dibenz(a,h)anthracene	81		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C12-Benzo(ghi)perylene	84		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C6-Anthracene	101		20 - 130	05/31/24 12:03	06/21/24 20:25	1
13C6-Phenanthrene	85		20 - 130	05/31/24 12:03	06/21/24 20:25	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 2 COMBINED

Lab Sample ID: 140-36689-2

Date Collected: 05/07/24 19:40

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	2.41	S	0.600	0.132	0.0202	ng/Sample		06/11/24 17:06	1
PCB-18	0.966	S C B	0.600	0.285	0.0171	ng/Sample		06/11/24 17:06	1
PCB-28	2.28	C20 B	0.600	0.252	0.0192	ng/Sample		06/11/24 17:06	1
PCB-44	6.28	C	0.900	0.390	0.0367	ng/Sample		06/11/24 17:06	1
PCB-52	2.19		0.300	0.132	0.0388	ng/Sample		06/11/24 17:06	1
PCB-66	0.592		0.300	0.120	0.0284	ng/Sample		06/11/24 17:06	1
PCB-77	ND		0.300	0.126	0.0325	ng/Sample		06/11/24 17:06	1
PCB-81	ND		0.300	0.0960	0.0336	ng/Sample		06/11/24 17:06	1
PCB-101	3.45	C90	0.900	0.390	0.0120	ng/Sample		06/11/24 17:06	1
PCB-105	1.46		0.300	0.102	0.0178	ng/Sample		06/11/24 17:06	1
PCB-114	0.0811	J q	0.300	0.165	0.0192	ng/Sample		06/11/24 17:06	1
PCB-118	3.73	B	0.300	0.183	0.0163	ng/Sample		06/11/24 17:06	1
PCB-123	0.0683	J q	0.300	0.171	0.0183	ng/Sample		06/11/24 17:06	1
PCB-126	ND		0.300	0.123	0.0196	ng/Sample		06/11/24 17:06	1
PCB-128	0.637	C	0.600	0.204	0.00930	ng/Sample		06/11/24 17:06	1
PCB-138	4.66	C129	1.20	0.510	0.00966	ng/Sample		06/11/24 17:06	1
PCB-153	3.28	C B	0.600	0.249	0.00836	ng/Sample		06/11/24 17:06	1
PCB-156	0.187	J C	0.600	0.255	0.0101	ng/Sample		06/11/24 17:06	1
PCB-157	0.187	J C156	0.600	0.255	0.0101	ng/Sample		06/11/24 17:06	1
PCB-167	0.0868	J	0.300	0.180	0.00676	ng/Sample		06/11/24 17:06	1
PCB-169	ND		0.300	0.123	0.00681	ng/Sample		06/11/24 17:06	1
PCB-170	0.0344	J q	0.300	0.132	0.000215	ng/Sample		06/11/24 17:06	1
PCB-180	0.155	J C	0.600	0.204	0.000168	ng/Sample		06/11/24 17:06	1
PCB-187	0.130	J q	0.300	0.126	0.000178	ng/Sample		06/11/24 17:06	1
PCB-189	ND		0.300	0.147	0.00540	ng/Sample		06/11/24 17:06	1
PCB-195	ND		0.300	0.159	0.00147	ng/Sample		06/11/24 17:06	1
PCB-206	ND		0.300	0.171	0.120	ng/Sample		06/11/24 17:06	1
PCB-209	0.0454	J q B	0.300	0.138	0.00236	ng/Sample		06/11/24 17:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	57	S	20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-3L	65		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-4L	68		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-15L	37	S	20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-19L	73	S	20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-37L	80		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-54L	75		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-77L	84		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-81L	83		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-104L	92		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-105L	91		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-114L	91		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-118L	92		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-123L	94		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-126L	92		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-155L	93		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-156L	87	C	20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-157L	87	C156	20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-167L	86		20 - 145	05/31/24 12:09	06/11/24 17:06	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 2 COMBINED

Lab Sample ID: 140-36689-2

Date Collected: 05/07/24 19:40

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	83		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-170L	93		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-188L	94		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-189L	89		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-202L	91		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-205L	90		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-206L	100		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-208L	100		20 - 145	05/31/24 12:09	06/11/24 17:06	1
PCB-209L	108		20 - 145	05/31/24 12:09	06/11/24 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	82		20 - 130	05/31/24 12:09	06/11/24 17:06	1
PCB-111L	87		20 - 130	05/31/24 12:09	06/11/24 17:06	1
PCB-178L	88		20 - 130	05/31/24 12:09	06/11/24 17:06	1
PCB-8L	90	S	70 - 130	05/31/24 12:09	06/11/24 17:06	1
PCB-79L	100		70 - 130	05/31/24 12:09	06/11/24 17:06	1
PCB-95L	102		70 - 130	05/31/24 12:09	06/11/24 17:06	1
PCB-153L	93		70 - 130	05/31/24 12:09	06/11/24 17:06	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	796	B	75.0	75.0	1.39	ng/Sample		06/21/24 21:29	1
2-Methylnaphthalene	952	B	75.0	75.0	0.189	ng/Sample		06/21/24 21:29	1
Acenaphthylene	31.7	B	3.00	3.00	0.133	ng/Sample		06/21/24 21:29	1
Acenaphthene	90.0	B	30.0	30.0	0.206	ng/Sample		06/21/24 21:29	1
Fluorene	236	B	30.0	30.0	0.445	ng/Sample		06/21/24 21:29	1
Phenanthrene	923	B	6.00	6.00	0.572	ng/Sample		06/21/24 21:29	1
Anthracene	76.5	B	30.0	30.0	0.541	ng/Sample		06/21/24 21:29	1
Fluoranthene	89.4	B	6.00	6.00	0.152	ng/Sample		06/21/24 21:29	1
Pyrene	106	B	6.00	6.00	0.162	ng/Sample		06/21/24 21:29	1
Benzo[a]anthracene	2.01	J B	6.00	6.00	0.0420	ng/Sample		06/21/24 21:29	1
Chrysene	7.06	B	6.00	6.00	0.0449	ng/Sample		06/21/24 21:29	1
Benzo[b]fluoranthene	4.68	J B	30.0	30.0	0.0307	ng/Sample		06/21/24 21:29	1
Benzo[k]fluoranthene	1.26	J B	6.00	6.00	0.0316	ng/Sample		06/21/24 21:29	1
Benzo[e]pyrene	15.5	B	6.00	6.00	0.0321	ng/Sample		06/21/24 21:29	1
Benzo[a]pyrene	3.71	B	3.00	3.00	0.0293	ng/Sample		06/21/24 21:29	1
Perylene	1.22	J B	3.00	3.00	0.0287	ng/Sample		06/21/24 21:29	1
Indeno[1,2,3-cd]pyrene	8.52	B	3.00	3.00	0.0223	ng/Sample		06/21/24 21:29	1
Dibenz(a,h)anthracene	0.162	J B	6.00	6.00	0.0123	ng/Sample		06/21/24 21:29	1
Benzo[g,h,i]perylene	43.4	B	6.00	6.00	0.0191	ng/Sample		06/21/24 21:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	39		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C6-2-Methylnaphthalene	48		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C6-Acenaphthylene	72		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C6-Acenaphthene	67		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C6-Fluorene	76		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C6-Fluoranthrene	87		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C3-Pyrene	79		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C6-Benzo(a)anthracene	83		20 - 130	05/31/24 12:03	06/21/24 21:29	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 2 COMBINED

Lab Sample ID: 140-36689-2

Date Collected: 05/07/24 19:40

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	79		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C6-Benzo(b)fluoranthene	92		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C6-Benzo(k)fluoranthene	86		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C4-Benzo(e)pyrene	76		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C4-Benzo(a)pyrene	85		20 - 130	05/31/24 12:03	06/21/24 21:29	1
Perylene-d12	72		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C6-Indeno(1,2,3-cd)pyrene	91		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C6-Dibenz(a,h)anthracene	96		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C12-Benzo(ghi)perylene	86		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C6-Anthracene	114		20 - 130	05/31/24 12:03	06/21/24 21:29	1
13C6-Phenanthrene	97		20 - 130	05/31/24 12:03	06/21/24 21:29	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 3 COMBINED

Lab Sample ID: 140-36689-3

Date Collected: 05/08/24 15:00

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.381	J S	0.600	0.132	0.0144	ng/Sample		06/11/24 18:07	1
PCB-18	ND	C	0.600	0.285	0.00330	ng/Sample		06/11/24 18:07	1
PCB-28	0.451	J C20 B	0.600	0.252	0.00768	ng/Sample		06/11/24 18:07	1
PCB-44	4.00	C	0.900	0.390	0.0263	ng/Sample		06/11/24 18:07	1
PCB-52	0.330		0.300	0.132	0.0278	ng/Sample		06/11/24 18:07	1
PCB-66	0.113	J	0.300	0.120	0.0203	ng/Sample		06/11/24 18:07	1
PCB-77	0.0650	J	0.300	0.126	0.0231	ng/Sample		06/11/24 18:07	1
PCB-81	ND		0.300	0.0960	0.0243	ng/Sample		06/11/24 18:07	1
PCB-101	0.114	J C90	0.900	0.390	0.00503	ng/Sample		06/11/24 18:07	1
PCB-105	ND		0.300	0.102	0.0105	ng/Sample		06/11/24 18:07	1
PCB-114	ND		0.300	0.165	0.0110	ng/Sample		06/11/24 18:07	1
PCB-118	0.0599	J B	0.300	0.183	0.00947	ng/Sample		06/11/24 18:07	1
PCB-123	ND		0.300	0.171	0.0114	ng/Sample		06/11/24 18:07	1
PCB-126	ND		0.300	0.123	0.0118	ng/Sample		06/11/24 18:07	1
PCB-128	0.00628	J q C	0.600	0.204	0.00198	ng/Sample		06/11/24 18:07	1
PCB-138	0.0530	J q C129	1.20	0.510	0.00205	ng/Sample		06/11/24 18:07	1
PCB-153	0.0720	J C B	0.600	0.249	0.00178	ng/Sample		06/11/24 18:07	1
PCB-156	ND	C	0.600	0.255	0.00213	ng/Sample		06/11/24 18:07	1
PCB-157	ND	C156	0.600	0.255	0.00213	ng/Sample		06/11/24 18:07	1
PCB-167	ND		0.300	0.180	0.00144	ng/Sample		06/11/24 18:07	1
PCB-169	ND		0.300	0.123	0.00145	ng/Sample		06/11/24 18:07	1
PCB-170	0.00427	J q	0.300	0.132	0.000229	ng/Sample		06/11/24 18:07	1
PCB-180	0.00852	J q C	0.600	0.204	0.000180	ng/Sample		06/11/24 18:07	1
PCB-187	0.00404	J q	0.300	0.126	0.000190	ng/Sample		06/11/24 18:07	1
PCB-189	ND		0.300	0.147	0.00338	ng/Sample		06/11/24 18:07	1
PCB-195	ND		0.300	0.159	0.00299	ng/Sample		06/11/24 18:07	1
PCB-206	ND		0.300	0.171	0.0385	ng/Sample		06/11/24 18:07	1
PCB-209	0.00884	J q B	0.300	0.138	0.000751	ng/Sample		06/11/24 18:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	55	S	20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-3L	61		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-4L	65		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-15L	36	S	20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-19L	69	S	20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-37L	75		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-54L	68		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-77L	77		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-81L	76		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-104L	92		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-105L	90		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-114L	90		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-118L	91		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-123L	90		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-126L	88		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-155L	94		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-156L	87	C	20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-157L	87	C156	20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-167L	85		20 - 145	05/31/24 12:09	06/11/24 18:07	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 3 COMBINED

Lab Sample ID: 140-36689-3

Date Collected: 05/08/24 15:00

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	83		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-170L	92		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-188L	93		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-189L	85		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-202L	94		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-205L	89		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-206L	99		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-208L	101		20 - 145	05/31/24 12:09	06/11/24 18:07	1
PCB-209L	110		20 - 145	05/31/24 12:09	06/11/24 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	79		20 - 130	05/31/24 12:09	06/11/24 18:07	1
PCB-111L	86		20 - 130	05/31/24 12:09	06/11/24 18:07	1
PCB-178L	89		20 - 130	05/31/24 12:09	06/11/24 18:07	1
PCB-8L	90	S	70 - 130	05/31/24 12:09	06/11/24 18:07	1
PCB-79L	104		70 - 130	05/31/24 12:09	06/11/24 18:07	1
PCB-95L	107		70 - 130	05/31/24 12:09	06/11/24 18:07	1
PCB-153L	97		70 - 130	05/31/24 12:09	06/11/24 18:07	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	331	B	75.0	75.0	1.06	ng/Sample		06/21/24 22:33	1
2-Methylnaphthalene	297	B	75.0	75.0	0.443	ng/Sample		06/21/24 22:33	1
Acenaphthylene	20.3	B	3.00	3.00	0.345	ng/Sample		06/21/24 22:33	1
Acenaphthene	67.5	B	30.0	30.0	0.488	ng/Sample		06/21/24 22:33	1
Fluorene	190	B	30.0	30.0	0.602	ng/Sample		06/21/24 22:33	1
Phenanthrene	560	B	6.00	6.00	0.535	ng/Sample		06/21/24 22:33	1
Anthracene	ND		30.0	30.0	0.486	ng/Sample		06/21/24 22:33	1
Fluoranthene	78.7	B	6.00	6.00	0.213	ng/Sample		06/21/24 22:33	1
Pyrene	70.7	B	6.00	6.00	0.233	ng/Sample		06/21/24 22:33	1
Benzo[a]anthracene	2.75	J B	6.00	6.00	0.108	ng/Sample		06/21/24 22:33	1
Chrysene	12.4	B	6.00	6.00	0.102	ng/Sample		06/21/24 22:33	1
Benzo[b]fluoranthene	5.20	J B	30.0	30.0	0.0806	ng/Sample		06/21/24 22:33	1
Benzo[k]fluoranthene	1.81	J B	6.00	6.00	0.0778	ng/Sample		06/21/24 22:33	1
Benzo[e]pyrene	10.2	B	6.00	6.00	0.0783	ng/Sample		06/21/24 22:33	1
Benzo[a]pyrene	1.78	J B	3.00	3.00	0.0774	ng/Sample		06/21/24 22:33	1
Perylene	0.288	J B	3.00	3.00	0.0702	ng/Sample		06/21/24 22:33	1
Indeno[1,2,3-cd]pyrene	6.29	B	3.00	3.00	0.0562	ng/Sample		06/21/24 22:33	1
Dibenz(a,h)anthracene	0.322	J B	6.00	6.00	0.0439	ng/Sample		06/21/24 22:33	1
Benzo[g,h,i]perylene	25.6	B	6.00	6.00	0.0462	ng/Sample		06/21/24 22:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	43		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C6-2-Methylnaphthalene	47		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C6-Acenaphthylene	69		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C6-Acenaphthene	66		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C6-Fluorene	77		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C6-Fluoranthene	80		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C3-Pyrene	71		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C6-Benzo(a)anthracene	71		20 - 130	05/31/24 12:03	06/21/24 22:33	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 3 COMBINED

Lab Sample ID: 140-36689-3

Date Collected: 05/08/24 15:00

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	71		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C6-Benzo(b)fluoranthene	87		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C6-Benzo(k)fluoranthene	89		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C4-Benzo(e)pyrene	77		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C4-Benzo(a)pyrene	84		20 - 130	05/31/24 12:03	06/21/24 22:33	1
Perylene-d12	77		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C6-Indeno(1,2,3-cd)pyrene	88		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C6-Dibenz(a,h)anthracene	92		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C12-Benzo(ghi)perylene	89		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C6-Anthracene	105		20 - 130	05/31/24 12:03	06/21/24 22:33	1
13C6-Phenanthrene	91		20 - 130	05/31/24 12:03	06/21/24 22:33	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 4 COMBINED

Lab Sample ID: 140-36689-4

Date Collected: 05/08/24 19:00

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	1.68	S	0.600	0.132	0.0261	ng/Sample		06/11/24 19:08	1
PCB-18	0.752	S C B	0.600	0.285	0.0219	ng/Sample		06/11/24 19:08	1
PCB-28	1.63	C20 B	0.600	0.252	0.0143	ng/Sample		06/11/24 19:08	1
PCB-44	4.35	C	0.900	0.390	0.0268	ng/Sample		06/11/24 19:08	1
PCB-52	1.70		0.300	0.132	0.0284	ng/Sample		06/11/24 19:08	1
PCB-66	0.378	q	0.300	0.120	0.0207	ng/Sample		06/11/24 19:08	1
PCB-77	0.0573	J q	0.300	0.126	0.0235	ng/Sample		06/11/24 19:08	1
PCB-81	ND		0.300	0.0960	0.0248	ng/Sample		06/11/24 19:08	1
PCB-101	2.75	C90	0.900	0.390	0.0175	ng/Sample		06/11/24 19:08	1
PCB-105	1.55		0.300	0.102	0.0207	ng/Sample		06/11/24 19:08	1
PCB-114	0.111	J	0.300	0.165	0.0215	ng/Sample		06/11/24 19:08	1
PCB-118	3.95	B	0.300	0.183	0.0189	ng/Sample		06/11/24 19:08	1
PCB-123	0.0705	J	0.300	0.171	0.0218	ng/Sample		06/11/24 19:08	1
PCB-126	ND		0.300	0.123	0.0231	ng/Sample		06/11/24 19:08	1
PCB-128	0.574	J q C	0.600	0.204	0.0111	ng/Sample		06/11/24 19:08	1
PCB-138	4.72	C129	1.20	0.510	0.0115	ng/Sample		06/11/24 19:08	1
PCB-153	3.25	C B	0.600	0.249	0.00999	ng/Sample		06/11/24 19:08	1
PCB-156	0.238	J C	0.600	0.255	0.0121	ng/Sample		06/11/24 19:08	1
PCB-157	0.238	J C156	0.600	0.255	0.0121	ng/Sample		06/11/24 19:08	1
PCB-167	0.0871	J q	0.300	0.180	0.00813	ng/Sample		06/11/24 19:08	1
PCB-169	ND		0.300	0.123	0.00805	ng/Sample		06/11/24 19:08	1
PCB-170	0.0752	J q	0.300	0.132	0.000242	ng/Sample		06/11/24 19:08	1
PCB-180	0.174	J C	0.600	0.204	0.000188	ng/Sample		06/11/24 19:08	1
PCB-187	0.132	J q	0.300	0.126	0.000199	ng/Sample		06/11/24 19:08	1
PCB-189	ND		0.300	0.147	0.00281	ng/Sample		06/11/24 19:08	1
PCB-195	ND		0.300	0.159	0.00143	ng/Sample		06/11/24 19:08	1
PCB-206	ND		0.300	0.171	0.0416	ng/Sample		06/11/24 19:08	1
PCB-209	0.0250	J q B	0.300	0.138	0.00139	ng/Sample		06/11/24 19:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	48		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-3L	56		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-4L	59		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-15L	34	S	20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-19L	63	S	20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-37L	74		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-54L	69		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-77L	77		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-81L	76		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-104L	89		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-105L	90		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-114L	90		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-118L	91		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-123L	91		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-126L	89		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-155L	90		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-156L	86	C	20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-157L	86	C156	20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-167L	85		20 - 145	05/31/24 12:09	06/11/24 19:08	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 4 COMBINED

Lab Sample ID: 140-36689-4

Date Collected: 05/08/24 19:00

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	84		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-170L	92		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-188L	91		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-189L	82		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-202L	91		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-205L	89		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-206L	99		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-208L	97		20 - 145	05/31/24 12:09	06/11/24 19:08	1
PCB-209L	110		20 - 145	05/31/24 12:09	06/11/24 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	78		20 - 130	05/31/24 12:09	06/11/24 19:08	1
PCB-111L	85		20 - 130	05/31/24 12:09	06/11/24 19:08	1
PCB-178L	88		20 - 130	05/31/24 12:09	06/11/24 19:08	1
PCB-8L	95	S	70 - 130	05/31/24 12:09	06/11/24 19:08	1
PCB-79L	106		70 - 130	05/31/24 12:09	06/11/24 19:08	1
PCB-95L	108		70 - 130	05/31/24 12:09	06/11/24 19:08	1
PCB-153L	101		70 - 130	05/31/24 12:09	06/11/24 19:08	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	515	B	75.0	75.0	0.807	ng/Sample		06/21/24 23:38	1
2-Methylnaphthalene	628	B	75.0	75.0	0.173	ng/Sample		06/21/24 23:38	1
Acenaphthylene	18.3	B	3.00	3.00	0.0986	ng/Sample		06/21/24 23:38	1
Acenaphthene	57.9	B	30.0	30.0	0.155	ng/Sample		06/21/24 23:38	1
Fluorene	163	B	30.0	30.0	0.261	ng/Sample		06/21/24 23:38	1
Phenanthrene	783	B	6.00	6.00	0.408	ng/Sample		06/21/24 23:38	1
Anthracene	62.6	B	30.0	30.0	0.336	ng/Sample		06/21/24 23:38	1
Fluoranthene	85.0	B	6.00	6.00	0.127	ng/Sample		06/21/24 23:38	1
Pyrene	103	B	6.00	6.00	0.139	ng/Sample		06/21/24 23:38	1
Benzo[a]anthracene	1.77	J B	6.00	6.00	0.0389	ng/Sample		06/21/24 23:38	1
Chrysene	7.32	B	6.00	6.00	0.0398	ng/Sample		06/21/24 23:38	1
Benzo[b]fluoranthene	5.67	J B	30.0	30.0	0.0269	ng/Sample		06/21/24 23:38	1
Benzo[k]fluoranthene	1.37	J B	6.00	6.00	0.0262	ng/Sample		06/21/24 23:38	1
Benzo[e]pyrene	23.0	B	6.00	6.00	0.0267	ng/Sample		06/21/24 23:38	1
Benzo[a]pyrene	3.01	B	3.00	3.00	0.0270	ng/Sample		06/21/24 23:38	1
Perylene	0.595	J B	3.00	3.00	0.0260	ng/Sample		06/21/24 23:38	1
Indeno[1,2,3-cd]pyrene	9.44	B	3.00	3.00	0.0228	ng/Sample		06/21/24 23:38	1
Dibenz(a,h)anthracene	0.0756	J B	6.00	6.00	0.00980	ng/Sample		06/21/24 23:38	1
Benzo[g,h,i]perylene	42.9	B	6.00	6.00	0.0186	ng/Sample		06/21/24 23:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	50		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C6-2-Methylnaphthalene	56		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C6-Acenaphthylene	78		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C6-Acenaphthene	76		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C6-Fluorene	89		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C6-Fluoranthrene	87		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C3-Pyrene	77		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C6-Benzo(a)anthracene	79		20 - 130	05/31/24 12:03	06/21/24 23:38	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 4 COMBINED

Lab Sample ID: 140-36689-4

Date Collected: 05/08/24 19:00

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	77		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C6-Benzo(b)fluoranthene	90		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C6-Benzo(k)fluoranthene	86		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C4-Benzo(e)pyrene	75		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C4-Benzo(a)pyrene	81		20 - 130	05/31/24 12:03	06/21/24 23:38	1
Perylene-d12	72		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C6-Indeno(1,2,3-cd)pyrene	96		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C6-Dibenz(a,h)anthracene	88		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C12-Benzo(ghi)perylene	87		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C6-Anthracene	118		20 - 130	05/31/24 12:03	06/21/24 23:38	1
13C6-Phenanthrene	97		20 - 130	05/31/24 12:03	06/21/24 23:38	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 5 COMBINED

Lab Sample ID: 140-36689-5

Date Collected: 05/09/24 15:20

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.227	J S	0.600	0.132	0.0163	ng/Sample		06/11/24 20:09	1
PCB-18	ND	C	0.600	0.285	0.00357	ng/Sample		06/11/24 20:09	1
PCB-28	0.286	J q C20 B	0.600	0.252	0.0103	ng/Sample		06/11/24 20:09	1
PCB-44	2.50	C	0.900	0.390	0.0147	ng/Sample		06/11/24 20:09	1
PCB-52	0.206	J	0.300	0.132	0.0155	ng/Sample		06/11/24 20:09	1
PCB-66	0.0934	J q	0.300	0.120	0.0114	ng/Sample		06/11/24 20:09	1
PCB-77	ND		0.300	0.126	0.0129	ng/Sample		06/11/24 20:09	1
PCB-81	ND		0.300	0.0960	0.0135	ng/Sample		06/11/24 20:09	1
PCB-101	0.0660	J q C90	0.900	0.390	0.00280	ng/Sample		06/11/24 20:09	1
PCB-105	ND		0.300	0.102	0.0148	ng/Sample		06/11/24 20:09	1
PCB-114	ND		0.300	0.165	0.0155	ng/Sample		06/11/24 20:09	1
PCB-118	0.0323	J B	0.300	0.183	0.0134	ng/Sample		06/11/24 20:09	1
PCB-123	ND		0.300	0.171	0.0160	ng/Sample		06/11/24 20:09	1
PCB-126	ND		0.300	0.123	0.0169	ng/Sample		06/11/24 20:09	1
PCB-128	ND	C	0.600	0.204	0.00320	ng/Sample		06/11/24 20:09	1
PCB-138	0.0316	J q C129	1.20	0.510	0.00333	ng/Sample		06/11/24 20:09	1
PCB-153	0.0328	J C B	0.600	0.249	0.00288	ng/Sample		06/11/24 20:09	1
PCB-156	0.00520	J q C	0.600	0.255	0.00351	ng/Sample		06/11/24 20:09	1
PCB-157	0.00520	J q C156	0.600	0.255	0.00351	ng/Sample		06/11/24 20:09	1
PCB-167	0.00421	J q	0.300	0.180	0.00237	ng/Sample		06/11/24 20:09	1
PCB-169	ND		0.300	0.123	0.00227	ng/Sample		06/11/24 20:09	1
PCB-170	ND		0.300	0.132	0.000225	ng/Sample		06/11/24 20:09	1
PCB-180	0.0149	J q C	0.600	0.204	0.000171	ng/Sample		06/11/24 20:09	1
PCB-187	0.0136	J q	0.300	0.126	0.000181	ng/Sample		06/11/24 20:09	1
PCB-189	ND		0.300	0.147	0.00219	ng/Sample		06/11/24 20:09	1
PCB-195	ND		0.300	0.159	0.00268	ng/Sample		06/11/24 20:09	1
PCB-206	ND		0.300	0.171	0.0494	ng/Sample		06/11/24 20:09	1
PCB-209	0.00332	J B	0.300	0.138	0.000695	ng/Sample		06/11/24 20:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	52		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-3L	57		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-4L	63		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-15L	33	S	20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-19L	65	S	20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-37L	73		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-54L	66	S	20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-77L	74		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-81L	75		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-104L	90		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-105L	90		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-114L	90		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-118L	89		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-123L	89		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-126L	89		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-155L	90		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-156L	87	C	20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-157L	87	C156	20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-167L	83		20 - 145	05/31/24 12:09	06/11/24 20:09	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 5 COMBINED

Lab Sample ID: 140-36689-5

Date Collected: 05/09/24 15:20

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	85		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-170L	89		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-188L	91		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-189L	85		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-202L	91		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-205L	89		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-206L	99		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-208L	99		20 - 145	05/31/24 12:09	06/11/24 20:09	1
PCB-209L	110		20 - 145	05/31/24 12:09	06/11/24 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	77		20 - 130	05/31/24 12:09	06/11/24 20:09	1
PCB-111L	84		20 - 130	05/31/24 12:09	06/11/24 20:09	1
PCB-178L	89		20 - 130	05/31/24 12:09	06/11/24 20:09	1
PCB-8L	83	S	70 - 130	05/31/24 12:09	06/11/24 20:09	1
PCB-79L	104		70 - 130	05/31/24 12:09	06/11/24 20:09	1
PCB-95L	106		70 - 130	05/31/24 12:09	06/11/24 20:09	1
PCB-153L	100		70 - 130	05/31/24 12:09	06/11/24 20:09	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	206	B	75.0	75.0	0.476	ng/Sample		06/25/24 18:54	1
2-Methylnaphthalene	154	B	75.0	75.0	0.112	ng/Sample		06/25/24 18:54	1
Acenaphthylene	14.0	B	3.00	3.00	0.144	ng/Sample		06/25/24 18:54	1
Acenaphthene	53.1	B	30.0	30.0	0.153	ng/Sample		06/25/24 18:54	1
Fluorene	130	B	30.0	30.0	0.230	ng/Sample		06/25/24 18:54	1
Phenanthrene	421	B	6.00	6.00	0.342	ng/Sample		06/25/24 18:54	1
Anthracene	49.2	B	30.0	30.0	0.325	ng/Sample		06/25/24 18:54	1
Fluoranthene	86.5	B	6.00	6.00	0.114	ng/Sample		06/25/24 18:54	1
Pyrene	71.7	B	6.00	6.00	0.135	ng/Sample		06/25/24 18:54	1
Benzo[a]anthracene	2.64	J B	6.00	6.00	0.0348	ng/Sample		06/25/24 18:54	1
Chrysene	13.1	B	6.00	6.00	0.0344	ng/Sample		06/25/24 18:54	1
Benzo[b]fluoranthene	5.60	J B	30.0	30.0	0.0264	ng/Sample		06/25/24 18:54	1
Benzo[k]fluoranthene	1.23	J B	6.00	6.00	0.0254	ng/Sample		06/25/24 18:54	1
Benzo[e]pyrene	10.7	B	6.00	6.00	0.0247	ng/Sample		06/25/24 18:54	1
Benzo[a]pyrene	2.43	J B	3.00	3.00	0.0254	ng/Sample		06/25/24 18:54	1
Perylene	0.432	J B	3.00	3.00	0.0265	ng/Sample		06/25/24 18:54	1
Indeno[1,2,3-cd]pyrene	5.67	B	3.00	3.00	0.0207	ng/Sample		06/25/24 18:54	1
Dibenz(a,h)anthracene	0.207	J B	6.00	6.00	0.00956	ng/Sample		06/25/24 18:54	1
Benzo[g,h,i]perylene	29.9	B	6.00	6.00	0.0166	ng/Sample		06/25/24 18:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	50		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C6-2-Methylnaphthalene	51		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C6-Acenaphthylene	76		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C6-Acenaphthene	67		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C6-Fluorene	79		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C6-Fluoranthrene	83		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C3-Pyrene	71		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C6-Benzo(a)anthracene	73		20 - 130	05/31/24 12:03	06/25/24 18:54	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 5 COMBINED

Lab Sample ID: 140-36689-5

Date Collected: 05/09/24 15:20

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	73		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C6-Benzo(b)fluoranthene	85		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C6-Benzo(k)fluoranthene	90		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C4-Benzo(e)pyrene	76		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C4-Benzo(a)pyrene	83		20 - 130	05/31/24 12:03	06/25/24 18:54	1
Perylene-d12	74		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C6-Indeno(1,2,3-cd)pyrene	72		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C6-Dibenz(a,h)anthracene	94		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C12-Benzo(ghi)perylene	75		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C6-Anthracene	75		20 - 130	05/31/24 12:03	06/25/24 18:54	1
13C6-Phenanthrene	69		20 - 130	05/31/24 12:03	06/25/24 18:54	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 6 COMBINED

Lab Sample ID: 140-36689-6

Date Collected: 05/09/24 19:15

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.821	S	0.600	0.132	0.0186	ng/Sample		06/12/24 05:36	1
PCB-18	ND	C	0.600	0.285	0.0165	ng/Sample		06/12/24 05:36	1
PCB-28	0.861	C20 B	0.600	0.252	0.0130	ng/Sample		06/12/24 05:36	1
PCB-44	3.77	C	0.900	0.390	0.0200	ng/Sample		06/12/24 05:36	1
PCB-52	0.749		0.300	0.132	0.0212	ng/Sample		06/12/24 05:36	1
PCB-66	0.195	J q	0.300	0.120	0.0155	ng/Sample		06/12/24 05:36	1
PCB-77	ND		0.300	0.126	0.0176	ng/Sample		06/12/24 05:36	1
PCB-81	ND		0.300	0.0960	0.0184	ng/Sample		06/12/24 05:36	1
PCB-101	0.869	J C90	0.900	0.390	0.00903	ng/Sample		06/12/24 05:36	1
PCB-105	0.422		0.300	0.102	0.0177	ng/Sample		06/12/24 05:36	1
PCB-114	0.0345	J	0.300	0.165	0.0193	ng/Sample		06/12/24 05:36	1
PCB-118	1.02	B	0.300	0.183	0.0170	ng/Sample		06/12/24 05:36	1
PCB-123	ND		0.300	0.171	0.0190	ng/Sample		06/12/24 05:36	1
PCB-126	ND		0.300	0.123	0.0206	ng/Sample		06/12/24 05:36	1
PCB-128	0.119	J q C	0.600	0.204	0.0105	ng/Sample		06/12/24 05:36	1
PCB-138	1.18	J C129	1.20	0.510	0.0109	ng/Sample		06/12/24 05:36	1
PCB-153	0.723	C B	0.600	0.249	0.00944	ng/Sample		06/12/24 05:36	1
PCB-156	0.0755	J C	0.600	0.255	0.0116	ng/Sample		06/12/24 05:36	1
PCB-157	0.0755	J C156	0.600	0.255	0.0116	ng/Sample		06/12/24 05:36	1
PCB-167	0.0313	J	0.300	0.180	0.00758	ng/Sample		06/12/24 05:36	1
PCB-169	ND		0.300	0.123	0.00750	ng/Sample		06/12/24 05:36	1
PCB-170	0.0245	J	0.300	0.132	0.000197	ng/Sample		06/12/24 05:36	1
PCB-180	0.0484	J C	0.600	0.204	0.000153	ng/Sample		06/12/24 05:36	1
PCB-187	0.0455	J	0.300	0.126	0.000162	ng/Sample		06/12/24 05:36	1
PCB-189	ND		0.300	0.147	0.0104	ng/Sample		06/12/24 05:36	1
PCB-195	ND		0.300	0.159	0.00367	ng/Sample		06/12/24 05:36	1
PCB-206	ND		0.300	0.171	0.0600	ng/Sample		06/12/24 05:36	1
PCB-209	0.0117	J q B	0.300	0.138	0.00100	ng/Sample		06/12/24 05:36	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	55		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-3L	60		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-4L	65		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-15L	38	S	20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-19L	67		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-37L	81		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-54L	70	S	20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-77L	86		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-81L	85		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-104L	93		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-105L	94		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-114L	93		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-118L	93		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-123L	94		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-126L	92		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-155L	96		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-156L	92	C	20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-157L	92	C156	20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-167L	92		20 - 145	05/31/24 12:09	06/12/24 05:36	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 6 COMBINED

Lab Sample ID: 140-36689-6

Date Collected: 05/09/24 19:15

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	91		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-170L	96		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-188L	93		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-189L	97		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-202L	94		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-205L	93		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-206L	98		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-208L	102		20 - 145	05/31/24 12:09	06/12/24 05:36	1
PCB-209L	108		20 - 145	05/31/24 12:09	06/12/24 05:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	77		20 - 130	05/31/24 12:09	06/12/24 05:36	1
PCB-111L	84		20 - 130	05/31/24 12:09	06/12/24 05:36	1
PCB-178L	84		20 - 130	05/31/24 12:09	06/12/24 05:36	1
PCB-8L	89	S	70 - 130	05/31/24 12:09	06/12/24 05:36	1
PCB-79L	102		70 - 130	05/31/24 12:09	06/12/24 05:36	1
PCB-95L	106		70 - 130	05/31/24 12:09	06/12/24 05:36	1
PCB-153L	96		70 - 130	05/31/24 12:09	06/12/24 05:36	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	429	B	75.0	75.0	1.18	ng/Sample		06/25/24 02:53	1
2-Methylnaphthalene	399	B	75.0	75.0	0.132	ng/Sample		06/25/24 02:53	1
Acenaphthylene	16.9	B	3.00	3.00	0.305	ng/Sample		06/25/24 02:53	1
Acenaphthene	65.7	B	30.0	30.0	0.178	ng/Sample		06/25/24 02:53	1
Fluorene	172	B	30.0	30.0	0.538	ng/Sample		06/25/24 02:53	1
Phenanthrene	683	B	6.00	6.00	0.543	ng/Sample		06/25/24 02:53	1
Anthracene	75.3	B	30.0	30.0	0.537	ng/Sample		06/25/24 02:53	1
Fluoranthene	92.5	B	6.00	6.00	0.139	ng/Sample		06/25/24 02:53	1
Pyrene	111	B	6.00	6.00	0.166	ng/Sample		06/25/24 02:53	1
Benzo[a]anthracene	3.02	J B	6.00	6.00	0.0521	ng/Sample		06/25/24 02:53	1
Chrysene	9.86	B	6.00	6.00	0.0485	ng/Sample		06/25/24 02:53	1
Benzo[b]fluoranthene	8.79	J B	30.0	30.0	0.0338	ng/Sample		06/25/24 02:53	1
Benzo[k]fluoranthene	2.25	J B	6.00	6.00	0.0335	ng/Sample		06/25/24 02:53	1
Benzo[e]pyrene	32.7	B	6.00	6.00	0.0318	ng/Sample		06/25/24 02:53	1
Benzo[a]pyrene	5.61	B	3.00	3.00	0.0358	ng/Sample		06/25/24 02:53	1
Perylene	1.78	J B	3.00	3.00	0.0357	ng/Sample		06/25/24 02:53	1
Indeno[1,2,3-cd]pyrene	14.1	B	3.00	3.00	0.0256	ng/Sample		06/25/24 02:53	1
Dibenz(a,h)anthracene	ND		6.00	6.00	0.00944	ng/Sample		06/25/24 02:53	1
Benzo[g,h,i]perylene	58.6	B	6.00	6.00	0.0198	ng/Sample		06/25/24 02:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	46		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C6-2-Methylnaphthalene	58		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C6-Acenaphthylene	77		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C6-Acenaphthene	74		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C6-Fluorene	90		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C6-Fluoranthrene	78		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C3-Pyrene	66		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C6-Benzo(a)anthracene	58		20 - 130	05/31/24 12:03	06/25/24 02:53	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 6 COMBINED

Lab Sample ID: 140-36689-6

Date Collected: 05/09/24 19:15

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	62		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C6-Benzo(b)fluoranthene	81		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C6-Benzo(k)fluoranthene	82		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C4-Benzo(e)pyrene	68		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C4-Benzo(a)pyrene	71		20 - 130	05/31/24 12:03	06/25/24 02:53	1
Perylene-d12	64		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C6-Indeno(1,2,3-cd)pyrene	75		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C6-Dibenz(a,h)anthracene	80		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C12-Benzo(ghi)perylene	74		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C6-Anthracene	101		20 - 130	05/31/24 12:03	06/25/24 02:53	1
13C6-Phenanthrene	94		20 - 130	05/31/24 12:03	06/25/24 02:53	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 7 COMBINED

Lab Sample ID: 140-36689-7

Date Collected: 05/10/24 13:45

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.271	J S	0.600	0.132	0.0219	ng/Sample		06/12/24 06:37	1
PCB-18	ND	C	0.600	0.285	0.00418	ng/Sample		06/12/24 06:37	1
PCB-28	0.315	J q C20 B	0.600	0.252	0.0105	ng/Sample		06/12/24 06:37	1
PCB-44	2.57	C	0.900	0.390	0.0116	ng/Sample		06/12/24 06:37	1
PCB-52	0.235	J	0.300	0.132	0.0123	ng/Sample		06/12/24 06:37	1
PCB-66	0.0852	J	0.300	0.120	0.00896	ng/Sample		06/12/24 06:37	1
PCB-77	0.0309	J q	0.300	0.126	0.0102	ng/Sample		06/12/24 06:37	1
PCB-81	ND		0.300	0.0960	0.0107	ng/Sample		06/12/24 06:37	1
PCB-101	0.0917	J C90	0.900	0.390	0.00337	ng/Sample		06/12/24 06:37	1
PCB-105	ND		0.300	0.102	0.0166	ng/Sample		06/12/24 06:37	1
PCB-114	ND		0.300	0.165	0.0170	ng/Sample		06/12/24 06:37	1
PCB-118	0.0394	J B	0.300	0.183	0.0151	ng/Sample		06/12/24 06:37	1
PCB-123	ND		0.300	0.171	0.0176	ng/Sample		06/12/24 06:37	1
PCB-126	ND		0.300	0.123	0.0182	ng/Sample		06/12/24 06:37	1
PCB-128	0.00655	J q C	0.600	0.204	0.00421	ng/Sample		06/12/24 06:37	1
PCB-138	0.0268	J q C129	1.20	0.510	0.00437	ng/Sample		06/12/24 06:37	1
PCB-153	0.0352	J q C B	0.600	0.249	0.00378	ng/Sample		06/12/24 06:37	1
PCB-156	0.00712	J C	0.600	0.255	0.00463	ng/Sample		06/12/24 06:37	1
PCB-157	0.00712	J C156	0.600	0.255	0.00463	ng/Sample		06/12/24 06:37	1
PCB-167	ND		0.300	0.180	0.00307	ng/Sample		06/12/24 06:37	1
PCB-169	ND		0.300	0.123	0.00300	ng/Sample		06/12/24 06:37	1
PCB-170	0.00859	J q	0.300	0.132	0.000882	ng/Sample		06/12/24 06:37	1
PCB-180	0.0150	J q C	0.600	0.204	0.000692	ng/Sample		06/12/24 06:37	1
PCB-187	ND		0.300	0.126	0.000733	ng/Sample		06/12/24 06:37	1
PCB-189	ND		0.300	0.147	0.0134	ng/Sample		06/12/24 06:37	1
PCB-195	ND		0.300	0.159	0.00672	ng/Sample		06/12/24 06:37	1
PCB-206	ND		0.300	0.171	0.0252	ng/Sample		06/12/24 06:37	1
PCB-209	ND		0.300	0.138	0.00182	ng/Sample		06/12/24 06:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	56		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-3L	61		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-4L	64		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-15L	38	S	20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-19L	68		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-37L	81		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-54L	71	S	20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-77L	84		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-81L	84		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-104L	95		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-105L	96		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-114L	96		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-118L	95		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-123L	96		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-126L	97		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-155L	98		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-156L	92	C	20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-157L	92	C156	20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-167L	89		20 - 145	05/31/24 12:09	06/12/24 06:37	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 7 COMBINED

Lab Sample ID: 140-36689-7

Date Collected: 05/10/24 13:45

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	91		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-170L	96		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-188L	94		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-189L	97		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-202L	94		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-205L	93		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-206L	99		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-208L	103		20 - 145	05/31/24 12:09	06/12/24 06:37	1
PCB-209L	109		20 - 145	05/31/24 12:09	06/12/24 06:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	73		20 - 130	05/31/24 12:09	06/12/24 06:37	1
PCB-111L	83		20 - 130	05/31/24 12:09	06/12/24 06:37	1
PCB-178L	83		20 - 130	05/31/24 12:09	06/12/24 06:37	1
PCB-8L	89	S	70 - 130	05/31/24 12:09	06/12/24 06:37	1
PCB-79L	99		70 - 130	05/31/24 12:09	06/12/24 06:37	1
PCB-95L	100		70 - 130	05/31/24 12:09	06/12/24 06:37	1
PCB-153L	94		70 - 130	05/31/24 12:09	06/12/24 06:37	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	189	B	75.0	75.0	0.642	ng/Sample		06/25/24 03:58	1
2-Methylnaphthalene	134	B	75.0	75.0	0.0925	ng/Sample		06/25/24 03:58	1
Acenaphthylene	14.8	B	3.00	3.00	0.273	ng/Sample		06/25/24 03:58	1
Acenaphthene	49.0	B	30.0	30.0	0.181	ng/Sample		06/25/24 03:58	1
Fluorene	130	B	30.0	30.0	0.315	ng/Sample		06/25/24 03:58	1
Phenanthrene	435	B	6.00	6.00	0.246	ng/Sample		06/25/24 03:58	1
Anthracene	56.4	B	30.0	30.0	0.214	ng/Sample		06/25/24 03:58	1
Fluoranthene	103	B	6.00	6.00	0.125	ng/Sample		06/25/24 03:58	1
Pyrene	88.2	B	6.00	6.00	0.140	ng/Sample		06/25/24 03:58	1
Benzo[a]anthracene	4.40	J B	6.00	6.00	0.0436	ng/Sample		06/25/24 03:58	1
Chrysene	19.9	B	6.00	6.00	0.0428	ng/Sample		06/25/24 03:58	1
Benzo[b]fluoranthene	10.1	J B	30.0	30.0	0.0222	ng/Sample		06/25/24 03:58	1
Benzo[k]fluoranthene	2.72	J B	6.00	6.00	0.0206	ng/Sample		06/25/24 03:58	1
Benzo[e]pyrene	18.8	B	6.00	6.00	0.0205	ng/Sample		06/25/24 03:58	1
Benzo[a]pyrene	3.78	B	3.00	3.00	0.0204	ng/Sample		06/25/24 03:58	1
Perylene	1.29	J B	3.00	3.00	0.0192	ng/Sample		06/25/24 03:58	1
Indeno[1,2,3-cd]pyrene	7.80	B	3.00	3.00	0.0226	ng/Sample		06/25/24 03:58	1
Dibenz(a,h)anthracene	0.241	J B	6.00	6.00	0.00999	ng/Sample		06/25/24 03:58	1
Benzo[g,h,i]perylene	38.6	B	6.00	6.00	0.0175	ng/Sample		06/25/24 03:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	50		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C6-2-Methylnaphthalene	58		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C6-Acenaphthylene	73		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C6-Acenaphthene	73		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C6-Fluorene	87		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C6-Fluoranthrene	80		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C3-Pyrene	71		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C6-Benzo(a)anthracene	67		20 - 130	05/31/24 12:03	06/25/24 03:58	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 7 COMBINED

Lab Sample ID: 140-36689-7

Date Collected: 05/10/24 13:45

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	66		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C6-Benzo(b)fluoranthene	89		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C6-Benzo(k)fluoranthene	91		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C4-Benzo(e)pyrene	77		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C4-Benzo(a)pyrene	82		20 - 130	05/31/24 12:03	06/25/24 03:58	1
Perylene-d12	78		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C6-Indeno(1,2,3-cd)pyrene	93		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C6-Dibenz(a,h)anthracene	91		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C12-Benzo(ghi)perylene	84		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C6-Anthracene	108		20 - 130	05/31/24 12:03	06/25/24 03:58	1
13C6-Phenanthrene	92		20 - 130	05/31/24 12:03	06/25/24 03:58	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN FB COMBINED

Lab Sample ID: 140-36689-8

Date Collected: 05/08/24 13:00

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.202	J S	0.600	0.132	0.0132	ng/Sample		06/12/24 07:39	1
PCB-18	ND	C	0.600	0.285	0.00588	ng/Sample		06/12/24 07:39	1
PCB-28	0.269	J C20 B	0.600	0.252	0.00858	ng/Sample		06/12/24 07:39	1
PCB-44	1.96	C	0.900	0.390	0.0241	ng/Sample		06/12/24 07:39	1
PCB-52	0.162	J	0.300	0.132	0.0255	ng/Sample		06/12/24 07:39	1
PCB-66	0.0520	J	0.300	0.120	0.0186	ng/Sample		06/12/24 07:39	1
PCB-77	ND		0.300	0.126	0.0212	ng/Sample		06/12/24 07:39	1
PCB-81	ND		0.300	0.0960	0.0222	ng/Sample		06/12/24 07:39	1
PCB-101	0.0625	J q C90	0.900	0.390	0.00347	ng/Sample		06/12/24 07:39	1
PCB-105	ND		0.300	0.102	0.00747	ng/Sample		06/12/24 07:39	1
PCB-114	ND		0.300	0.165	0.00764	ng/Sample		06/12/24 07:39	1
PCB-118	0.0224	J q B	0.300	0.183	0.00662	ng/Sample		06/12/24 07:39	1
PCB-123	ND		0.300	0.171	0.00767	ng/Sample		06/12/24 07:39	1
PCB-126	ND		0.300	0.123	0.00815	ng/Sample		06/12/24 07:39	1
PCB-128	ND	C	0.600	0.204	0.00263	ng/Sample		06/12/24 07:39	1
PCB-138	0.0136	J q C129	1.20	0.510	0.00273	ng/Sample		06/12/24 07:39	1
PCB-153	0.0274	J q C B	0.600	0.249	0.00236	ng/Sample		06/12/24 07:39	1
PCB-156	ND	C	0.600	0.255	0.00285	ng/Sample		06/12/24 07:39	1
PCB-157	ND	C156	0.600	0.255	0.00285	ng/Sample		06/12/24 07:39	1
PCB-167	ND		0.300	0.180	0.00196	ng/Sample		06/12/24 07:39	1
PCB-169	0.00308	J q B	0.300	0.123	0.00186	ng/Sample		06/12/24 07:39	1
PCB-170	ND		0.300	0.132	0.000225	ng/Sample		06/12/24 07:39	1
PCB-180	0.00273	J q C	0.600	0.204	0.000174	ng/Sample		06/12/24 07:39	1
PCB-187	ND		0.300	0.126	0.000184	ng/Sample		06/12/24 07:39	1
PCB-189	ND		0.300	0.147	0.0212	ng/Sample		06/12/24 07:39	1
PCB-195	ND		0.300	0.159	0.00695	ng/Sample		06/12/24 07:39	1
PCB-206	ND		0.300	0.171	0.0551	ng/Sample		06/12/24 07:39	1
PCB-209	0.00903	J B	0.300	0.138	0.00113	ng/Sample		06/12/24 07:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	49		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-3L	53		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-4L	57		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-15L	32	S	20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-19L	57	S	20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-37L	73		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-54L	66	S	20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-77L	76		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-81L	74		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-104L	86		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-105L	88		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-114L	87		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-118L	86		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-123L	88		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-126L	87		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-155L	89		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-156L	84	C	20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-157L	84	C156	20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-167L	82		20 - 145	05/31/24 12:09	06/12/24 07:39	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN FB COMBINED

Lab Sample ID: 140-36689-8

Date Collected: 05/08/24 13:00

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	86		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-170L	89		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-188L	87		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-189L	87		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-202L	88		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-205L	85		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-206L	90		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-208L	93		20 - 145	05/31/24 12:09	06/12/24 07:39	1
PCB-209L	98		20 - 145	05/31/24 12:09	06/12/24 07:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	69		20 - 130	05/31/24 12:09	06/12/24 07:39	1
PCB-111L	77		20 - 130	05/31/24 12:09	06/12/24 07:39	1
PCB-178L	78		20 - 130	05/31/24 12:09	06/12/24 07:39	1
PCB-8L	87	S	70 - 130	05/31/24 12:09	06/12/24 07:39	1
PCB-79L	100		70 - 130	05/31/24 12:09	06/12/24 07:39	1
PCB-95L	104		70 - 130	05/31/24 12:09	06/12/24 07:39	1
PCB-153L	92		70 - 130	05/31/24 12:09	06/12/24 07:39	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	145	B	75.0	75.0	1.99	ng/Sample		06/25/24 05:02	1
2-Methylnaphthalene	123	B	75.0	75.0	1.56	ng/Sample		06/25/24 05:02	1
Acenaphthylene	14.7	B	3.00	3.00	1.04	ng/Sample		06/25/24 05:02	1
Acenaphthene	68.9	B	30.0	30.0	1.63	ng/Sample		06/25/24 05:02	1
Fluorene	136	B	30.0	30.0	1.32	ng/Sample		06/25/24 05:02	1
Phenanthrene	341	B	6.00	6.00	1.58	ng/Sample		06/25/24 05:02	1
Anthracene	47.7	B	30.0	30.0	1.61	ng/Sample		06/25/24 05:02	1
Fluoranthene	31.8	B	6.00	6.00	0.593	ng/Sample		06/25/24 05:02	1
Pyrene	27.4	B	6.00	6.00	0.629	ng/Sample		06/25/24 05:02	1
Benzo[a]anthracene	ND		6.00	6.00	0.526	ng/Sample		06/25/24 05:02	1
Chrysene	1.07	J B	6.00	6.00	0.522	ng/Sample		06/25/24 05:02	1
Benzo[b]fluoranthene	ND		30.0	30.0	0.304	ng/Sample		06/25/24 05:02	1
Benzo[k]fluoranthene	ND		6.00	6.00	0.259	ng/Sample		06/25/24 05:02	1
Benzo[e]pyrene	ND		6.00	6.00	0.215	ng/Sample		06/25/24 05:02	1
Benzo[a]pyrene	ND		3.00	3.00	0.238	ng/Sample		06/25/24 05:02	1
Perylene	ND		3.00	3.00	0.197	ng/Sample		06/25/24 05:02	1
Indeno[1,2,3-cd]pyrene	ND		3.00	3.00	0.244	ng/Sample		06/25/24 05:02	1
Dibenz(a,h)anthracene	ND		6.00	6.00	0.168	ng/Sample		06/25/24 05:02	1
Benzo[g,h,i]perylene	ND		6.00	6.00	0.202	ng/Sample		06/25/24 05:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	53		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C6-2-Methylnaphthalene	57		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C6-Acenaphthylene	71		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C6-Acenaphthene	67		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C6-Fluorene	80		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C6-Fluoranthrene	91		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C3-Pyrene	88		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C6-Benzo(a)anthracene	61		20 - 130	05/31/24 12:03	06/25/24 05:02	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN FB COMBINED

Lab Sample ID: 140-36689-8

Date Collected: 05/08/24 13:00

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	58		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C6-Benzo(b)fluoranthene	75		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C6-Benzo(k)fluoranthene	86		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C4-Benzo(e)pyrene	81		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C4-Benzo(a)pyrene	91		20 - 130	05/31/24 12:03	06/25/24 05:02	1
Perylene-d12	96		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C6-Indeno(1,2,3-cd)pyrene	82		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C6-Dibenz(a,h)anthracene	88		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C12-Benzo(ghi)perylene	88		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C6-Anthracene	109		20 - 130	05/31/24 12:03	06/25/24 05:02	1
13C6-Phenanthrene	95		20 - 130	05/31/24 12:03	06/25/24 05:02	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23 MEDIA CHECK A-2171 FILTER,A-2170

Lab Sample ID: 140-36689-14

XAD COMBINED

Date Collected: 05/07/24 00:00

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.0112	J q	0.600	0.132	0.00398	ng/Sample		06/12/24 14:09	1
PCB-18	0.00759	J C B	0.600	0.285	0.00238	ng/Sample		06/12/24 14:09	1
PCB-28	0.0138	J q C20 B	0.600	0.252	0.00529	ng/Sample		06/12/24 14:09	1
PCB-44	ND	C	0.900	0.390	0.0155	ng/Sample		06/12/24 14:09	1
PCB-52	ND		0.300	0.132	0.0165	ng/Sample		06/12/24 14:09	1
PCB-66	ND		0.300	0.120	0.0120	ng/Sample		06/12/24 14:09	1
PCB-77	ND		0.300	0.126	0.0138	ng/Sample		06/12/24 14:09	1
PCB-81	ND		0.300	0.0960	0.0142	ng/Sample		06/12/24 14:09	1
PCB-101	ND	C90	0.900	0.390	0.00231	ng/Sample		06/12/24 14:09	1
PCB-105	ND		0.300	0.102	0.00983	ng/Sample		06/12/24 14:09	1
PCB-114	ND		0.300	0.165	0.0107	ng/Sample		06/12/24 14:09	1
PCB-118	ND		0.300	0.183	0.00921	ng/Sample		06/12/24 14:09	1
PCB-123	ND		0.300	0.171	0.0108	ng/Sample		06/12/24 14:09	1
PCB-126	0.0244	J q	0.300	0.123	0.0108	ng/Sample		06/12/24 14:09	1
PCB-128	ND	C	0.600	0.204	0.00242	ng/Sample		06/12/24 14:09	1
PCB-138	0.0173	J C129	1.20	0.510	0.00252	ng/Sample		06/12/24 14:09	1
PCB-153	ND	C	0.600	0.249	0.00218	ng/Sample		06/12/24 14:09	1
PCB-156	ND	C	0.600	0.255	0.00266	ng/Sample		06/12/24 14:09	1
PCB-157	ND	C156	0.600	0.255	0.00266	ng/Sample		06/12/24 14:09	1
PCB-167	ND		0.300	0.180	0.00177	ng/Sample		06/12/24 14:09	1
PCB-169	ND		0.300	0.123	0.00173	ng/Sample		06/12/24 14:09	1
PCB-170	0.00233	J q	0.300	0.132	0.000261	ng/Sample		06/12/24 14:09	1
PCB-180	0.00166	J q C	0.600	0.204	0.000211	ng/Sample		06/12/24 14:09	1
PCB-187	ND		0.300	0.126	0.000224	ng/Sample		06/12/24 14:09	1
PCB-189	ND		0.300	0.147	0.00384	ng/Sample		06/12/24 14:09	1
PCB-195	ND		0.300	0.159	0.00285	ng/Sample		06/12/24 14:09	1
PCB-206	ND		0.300	0.171	0.0717	ng/Sample		06/12/24 14:09	1
PCB-209	ND		0.300	0.138	0.00172	ng/Sample		06/12/24 14:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	66		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-3L	66		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-4L	70		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-15L	71		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-19L	65		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-37L	74		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-54L	71		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-77L	81		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-81L	79		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-104L	70		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-105L	83		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-114L	79		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-118L	80		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-123L	79		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-126L	86		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-155L	80		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-156L	85	C	20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-157L	85	C156	20 - 145	05/31/24 12:09	06/12/24 14:09	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23 MEDIA CHECK A-2171 FILTER,A-2170

Lab Sample ID: 140-36689-14

XAD COMBINED

Date Collected: 05/07/24 00:00

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	84		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-169L	87		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-170L	88		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-188L	78		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-189L	90		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-202L	84		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-205L	87		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-206L	94		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-208L	93		20 - 145	05/31/24 12:09	06/12/24 14:09	1
PCB-209L	104		20 - 145	05/31/24 12:09	06/12/24 14:09	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	68		20 - 130	05/31/24 12:09	06/12/24 14:09	1
PCB-111L	70		20 - 130	05/31/24 12:09	06/12/24 14:09	1
PCB-178L	73		20 - 130	05/31/24 12:09	06/12/24 14:09	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	55.8	J B	75.0	75.0	0.0569	ng/Sample		06/25/24 06:06	1
2-Methylnaphthalene	20.3	J B	75.0	75.0	0.0438	ng/Sample		06/25/24 06:06	1
Acenaphthylene	0.606	J B	3.00	3.00	0.0310	ng/Sample		06/25/24 06:06	1
Acenaphthene	6.71	J B	30.0	30.0	0.0495	ng/Sample		06/25/24 06:06	1
Fluorene	6.14	J B	30.0	30.0	0.0566	ng/Sample		06/25/24 06:06	1
Phenanthrene	8.91	B	6.00	6.00	0.0695	ng/Sample		06/25/24 06:06	1
Anthracene	ND		30.0	30.0	0.0664	ng/Sample		06/25/24 06:06	1
Fluoranthene	2.33	J B	6.00	6.00	0.0233	ng/Sample		06/25/24 06:06	1
Pyrene	3.45	J B	6.00	6.00	0.0229	ng/Sample		06/25/24 06:06	1
Benzo[a]anthracene	ND		6.00	6.00	0.0198	ng/Sample		06/25/24 06:06	1
Chrysene	0.892	J B	6.00	6.00	0.0189	ng/Sample		06/25/24 06:06	1
Benzo[b]fluoranthene	0.335	J B	30.0	30.0	0.0102	ng/Sample		06/25/24 06:06	1
Benzo[k]fluoranthene	0.161	J B	6.00	6.00	0.00966	ng/Sample		06/25/24 06:06	1
Benzo[e]pyrene	0.816	J B	6.00	6.00	0.00889	ng/Sample		06/25/24 06:06	1
Benzo[a]pyrene	0.312	J B	3.00	3.00	0.00897	ng/Sample		06/25/24 06:06	1
Perylene	0.428	J B	3.00	3.00	0.00762	ng/Sample		06/25/24 06:06	1
Indeno[1,2,3-cd]pyrene	0.229	J B	3.00	3.00	0.00790	ng/Sample		06/25/24 06:06	1
Dibenz(a,h)anthracene	ND		6.00	6.00	0.00561	ng/Sample		06/25/24 06:06	1
Benzo[g,h,i]perylene	0.189	J B	6.00	6.00	0.00653	ng/Sample		06/25/24 06:06	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared		Analyzed	Dil Fac
13C6-Naphthalene	76		20 - 130			05/31/24 12:03		06/25/24 06:06	1
13C6-2-Methylnaphthalene	83		20 - 130			05/31/24 12:03		06/25/24 06:06	1
13C6-Acenaphthylene	98		20 - 130			05/31/24 12:03		06/25/24 06:06	1
13C6-Acenaphthene	93		20 - 130			05/31/24 12:03		06/25/24 06:06	1
13C6-Fluorene	98		20 - 130			05/31/24 12:03		06/25/24 06:06	1
13C6-Fluoranthrene	89		20 - 130			05/31/24 12:03		06/25/24 06:06	1
13C3-Pyrene	87		20 - 130			05/31/24 12:03		06/25/24 06:06	1
13C6-Benzo(a)anthracene	65		20 - 130			05/31/24 12:03		06/25/24 06:06	1
13C6-Chrysene	66		20 - 130			05/31/24 12:03		06/25/24 06:06	1

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Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23 MEDIA CHECK A-2171 FILTER,A-2170

Lab Sample ID: 140-36689-14

XAD COMBINED

Date Collected: 05/07/24 00:00

Matrix: Air

Date Received: 05/12/24 08:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Benzo(b)fluoranthene	82		20 - 130	05/31/24 12:03	06/25/24 06:06	1
13C6-Benzo(k)fluoranthene	86		20 - 130	05/31/24 12:03	06/25/24 06:06	1
13C4-Benzo(e)pyrene	81		20 - 130	05/31/24 12:03	06/25/24 06:06	1
13C4-Benzo(a)pyrene	87		20 - 130	05/31/24 12:03	06/25/24 06:06	1
Perylene-d12	95		20 - 130	05/31/24 12:03	06/25/24 06:06	1
13C6-Indeno(1,2,3-cd)pyrene	93		20 - 130	05/31/24 12:03	06/25/24 06:06	1
13C6-Dibenz(a,h)anthracene	95		20 - 130	05/31/24 12:03	06/25/24 06:06	1
13C12-Benzo(ghi)perylene	95		20 - 130	05/31/24 12:03	06/25/24 06:06	1
13C6-Anthracene	108		20 - 130	05/31/24 12:03	06/25/24 06:06	1
13C6-Phenanthrene	94		20 - 130	05/31/24 12:03	06/25/24 06:06	1

Default Detection Limits

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Prep: Combined Prep

Analyte	RL	Units
PCB-101	0.300	ng/Sample
PCB-105	0.100	ng/Sample
PCB-114	0.100	ng/Sample
PCB-118	0.100	ng/Sample
PCB-123	0.100	ng/Sample
PCB-126	0.100	ng/Sample
PCB-128	0.200	ng/Sample
PCB-138	0.400	ng/Sample
PCB-153	0.200	ng/Sample
PCB-156	0.200	ng/Sample
PCB-157	0.200	ng/Sample
PCB-167	0.100	ng/Sample
PCB-169	0.100	ng/Sample
PCB-170	0.100	ng/Sample
PCB-18	0.200	ng/Sample
PCB-180	0.200	ng/Sample
PCB-187	0.100	ng/Sample
PCB-189	0.100	ng/Sample
PCB-195	0.100	ng/Sample
PCB-206	0.100	ng/Sample
PCB-209	0.100	ng/Sample
PCB-28	0.200	ng/Sample
PCB-44	0.300	ng/Sample
PCB-52	0.100	ng/Sample
PCB-66	0.100	ng/Sample
PCB-77	0.100	ng/Sample
PCB-8	0.200	ng/Sample
PCB-81	0.100	ng/Sample

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Prep: Combined Prep

Analyte	RL	Units
2-Methylnaphthalene	25.0	ng/Sample
Acenaphthene	10.0	ng/Sample
Acenaphthylene	1.00	ng/Sample
Anthracene	10.0	ng/Sample
Benzo[a]anthracene	2.00	ng/Sample
Benzo[a]pyrene	1.00	ng/Sample
Benzo[b]fluoranthene	10.0	ng/Sample
Benzo[e]pyrene	2.00	ng/Sample
Benzo[g,h,i]perylene	2.00	ng/Sample
Benzo[k]fluoranthene	2.00	ng/Sample
Chrysene	2.00	ng/Sample
Dibenz(a,h)anthracene	2.00	ng/Sample
Fluoranthene	2.00	ng/Sample
Fluorene	10.0	ng/Sample
Indeno[1,2,3-cd]pyrene	1.00	ng/Sample
Naphthalene	25.0	ng/Sample
Perylene	1.00	ng/Sample
Phenanthrene	2.00	ng/Sample
Pyrene	2.00	ng/Sample

Surrogate Summary

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		PCB28L (20-130)	PCB111L (20-130)	PCB178L (20-130)	PCB8L (70-130)	PCB79L (70-130)	PCB95L (70-130)	PCB153L (70-130)
140-36689-1	M23-NO.3 BOILER-RUN 1 COM	77	80	82	98 S	103	106	93
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	82	87	88	90 S	100	102	93
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	79	86	89	90 S	104	107	97
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	78	85	88	95 S	106	108	101
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	77	84	89	83 S	104	106	100
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	77	84	84	89 S	102	106	96
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	73	83	83	89 S	99	100	94
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	69	77	78	87 S	100	104	92
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINE	68	70	73				
MB 140-87206/17-B	Method Blank	74	82	82				

Surrogate Legend

PCB28L = PCB-28L
PCB111L = PCB-111L
PCB178L = PCB-178L
PCB8L = PCB-8L
PCB79L = PCB-79L
PCB95L = PCB-95L
PCB153L = PCB-153L

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		PCB28L (15-145)	PCB111L (40-145)	PCB178L (40-145)
LCS 140-87206/15-B	Lab Control Sample	72	79	83
LCSD 140-87206/16-B	Lab Control Sample Dup	73	79	84

Surrogate Legend

PCB28L = PCB-28L
PCB111L = PCB-111L
PCB178L = PCB-178L

Isotope Dilution Summary

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB1L (20-145)	PCB3L (20-145)	PCB4L (20-145)	PCB15L (20-145)	PCB19L (20-145)	PCB37L (20-145)	PCB54L (20-145)	PCB77L (20-145)
140-36689-1	M23-NO.3 BOILER-RUN 1 COM	55	62	64	42 S	69	80	69 S	83
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	57 S	65	68	37 S	73 S	80	75	84
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	55 S	61	65	36 S	69 S	75	68	77
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	48	56	59	34 S	63 S	74	69	77
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	52	57	63	33 S	65 S	73	66 S	74
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	55	60	65	38 S	67	81	70 S	86
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	56	61	64	38 S	68	81	71 S	84
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	49	53	57	32 S	57 S	73	66 S	76
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINEI	66	66	70	71	65	74	71	81
MB 140-87206/17-B	Method Blank	72	71	73	73	68	76	73	83

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB81L (20-145)	PCB104L (20-145)	PCB105L (20-145)	PCB114L (20-145)	PCB118L (20-145)	PCB123L (20-145)	PCB126L (20-145)	PCB155L (20-145)
140-36689-1	M23-NO.3 BOILER-RUN 1 COM	81	88	92	92	90	92	92	90
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	83	92	91	91	92	94	92	93
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	76	92	90	90	91	90	88	94
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	76	89	90	90	91	91	89	90
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	75	90	90	90	89	89	89	90
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	85	93	94	93	93	94	92	96
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	84	95	96	96	95	96	97	98
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	74	86	88	87	86	88	87	89
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINEI	79	70	83	79	80	79	86	80
MB 140-87206/17-B	Method Blank	80	79	86	83	84	83	88	85

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB156L (20-145)	PCB157L (20-145)	PCB167L (20-145)	PCB169L (20-145)	PCB170L (20-145)	PCB188L (20-145)	PCB189L (20-145)	PCB202L (20-145)
140-36689-1	M23-NO.3 BOILER-RUN 1 COM	89 C	89 C156	86	87	92	91	90	92
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	87 C	87 C156	86	83	93	94	89	91
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	87 C	87 C156	85	83	92	93	85	94
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	86 C	86 C156	85	84	92	91	82	91
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	87 C	87 C156	83	85	89	91	85	91
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	92 C	92 C156	92	91	96	93	97	94

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Isotope Dilution Summary

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB156L (20-145)	PCB157L (20-145)	PCB167L (20-145)	PCB169L (20-145)	PCB170L (20-145)	PCB188L (20-145)	PCB189L (20-145)	PCB202L (20-145)
140-36689-7	M23-NO.3 BOILER-RUN 7 COM	92 C	92 C156	89	91	96	94	97	94
140-36689-8	M23-NO.3 BOILER-RUN FB	84 C	84 C156	82	86	89	87	87	88
	COMBINED								
140-36689-14	M23 MEDIA CHECK A-2171	85 C	85 C156	84	87	88	78	90	84
	FILTER,A-2170 XAD COMBINE								
MB 140-87206/17-B	Method Blank	88 C	88 C156	86	92	90	82	86	86

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)			
		PCB205L (20-145)	PCB206L (20-145)	PCB208L (20-145)	PCB209L (20-145)
140-36689-1	M23-NO.3 BOILER-RUN 1 COM	89	96	98	105
140-36689-2	M23-NO.3 BOILER-RUN 2	90	100	100	108
	COMBINED				
140-36689-3	M23-NO.3 BOILER-RUN 3	89	99	101	110
	COMBINED				
140-36689-4	M23-NO.3 BOILER-RUN 4	89	99	97	110
	COMBINED				
140-36689-5	M23-NO.3 BOILER-RUN 5	89	99	99	110
	COMBINED				
140-36689-6	M23-NO.3 BOILER-RUN 6	93	98	102	108
	COMBINED				
140-36689-7	M23-NO.3 BOILER-RUN 7	93	99	103	109
	COMBINED				
140-36689-8	M23-NO.3 BOILER-RUN FB	85	90	93	98
	COMBINED				
140-36689-14	M23 MEDIA CHECK A-2171	87	94	93	104
	FILTER,A-2170 XAD COMBINE				
MB 140-87206/17-B	Method Blank	90	100	95	107

Surrogate Legend

PCB1L = PCB-1L
PCB3L = PCB-3L
PCB4L = PCB-4L
PCB15L = PCB-15L
PCB19L = PCB-19L
PCB37L = PCB-37L
PCB54L = PCB-54L
PCB77L = PCB-77L
PCB81L = PCB-81L
PCB104L = PCB-104L
PCB105L = PCB-105L
PCB114L = PCB-114L
PCB118L = PCB-118L
PCB123L = PCB-123L
PCB126L = PCB-126L
PCB155L = PCB-155L
PCB156L = PCB-156L
PCB157L = PCB-157L
PCB167L = PCB-167L
PCB169L = PCB-169L
PCB170L = PCB-170L
PCB188L = PCB-188L
PCB189L = PCB-189L
PCB202L = PCB-202L

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Isotope Dilution Summary

Client: Alliance Source Testing LLC

Job ID: 140-36689-1

Project/Site: BASF M23 PAH/PCB

PCB205L = PCB-205L

PCB206L = PCB-206L

PCB208L = PCB-208L

PCB209L = PCB-209L

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Matrix: Air

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB1L (15-145)	PCB3L (15-145)	PCB4L (15-145)	PCB15L (15-145)	PCB19L (15-145)	PCB37L (15-145)	PCB54L (15-145)	PCB77L (40-145)
LCS 140-87206/15-B	Lab Control Sample	68	67	71	71	69	74	73	78
LCSD 140-87206/16-B	Lab Control Sample Dup	74	71	76	75	70	78	74	82

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB81L (40-145)	PCB104L (40-145)	PCB105L (40-145)	PCB114L (40-145)	PCB118L (40-145)	PCB123L (40-145)	PCB126L (40-145)	PCB155L (40-145)
LCS 140-87206/15-B	Lab Control Sample	77	78	84	81	82	81	86	82
LCSD 140-87206/16-B	Lab Control Sample Dup	78	79	86	84	84	82	88	82

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB156L (40-145)	PCB157L (40-145)	PCB167L (40-145)	PCB169L (40-145)	PCB170L (40-145)	PCB188L (40-145)	PCB189L (40-145)	PCB202L (40-145)
LCS 140-87206/15-B	Lab Control Sample	85 C	85 C156	83	85	86	80	83	84
LCSD 140-87206/16-B	Lab Control Sample Dup	88 C	88 C156	86	90	92	84	87	87

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB205L (40-145)	PCB206L (40-145)	PCB208L (40-145)	PCB209L (40-145)				
LCS 140-87206/15-B	Lab Control Sample	88	97	94	103				
LCSD 140-87206/16-B	Lab Control Sample Dup	91	98	96	106				

Surrogate Legend

PCB1L = PCB-1L

PCB3L = PCB-3L

PCB4L = PCB-4L

PCB15L = PCB-15L

PCB19L = PCB-19L

PCB37L = PCB-37L

PCB54L = PCB-54L

PCB77L = PCB-77L

PCB81L = PCB-81L

PCB104L = PCB-104L

PCB105L = PCB-105L

PCB114L = PCB-114L

PCB118L = PCB-118L

PCB123L = PCB-123L

PCB126L = PCB-126L

PCB155L = PCB-155L

PCB156L = PCB-156L

PCB157L = PCB-157L

PCB167L = PCB-167L

PCB169L = PCB-169L

PCB170L = PCB-170L

PCB188L = PCB-188L

PCB189L = PCB-189L

PCB202L = PCB-202L

PCB205L = PCB-205L

PCB206L = PCB-206L

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Isotope Dilution Summary

Client: Alliance Source Testing LLC

Job ID: 140-36689-1

Project/Site: BASF M23 PAH/PCB

PCB208L = PCB-208L

PCB209L = PCB-209L

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		C6N (20-130)	C62MN (20-130)	C6Acy (20-130)	C6Ace (20-130)	C6Fle (20-130)	C6Fla (20-130)	C3Pyr (20-130)	C6BaA (20-130)
140-36689-1	M23-NO.3 BOILER-RUN 1 COM	53	59	82	76	82	85	81	76
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	39	48	72	67	76	87	79	83
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	43	47	69	66	77	80	71	71
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	50	56	78	76	89	87	77	79
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	50	51	76	67	79	83	71	73
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	46	58	77	74	90	78	66	58
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	50	58	73	73	87	80	71	67
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	53	57	71	67	80	91	88	61
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINE	76	83	98	93	98	89	87	65
LCS 140-87205/15-B	Lab Control Sample	83	84	95	91	90	88	87	74
LCSD 140-87205/16-B	Lab Control Sample Dup	70	76	92	87	88	86	85	81
MB 140-87205/17-B	Method Blank	74	77	89	89	96	87	86	72

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		C6Chr (20-130)	C6BbF (20-130)	C6BkF (20-130)	C4BeP (20-130)	C4BaP (20-130)	PRY (20-130)	IND (20-130)	DBA (20-130)
140-36689-1	M23-NO.3 BOILER-RUN 1 COM	75	84	84	76	86	89	86	81
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	79	92	86	76	85	72	91	96
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	71	87	89	77	84	77	88	92
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	77	90	86	75	81	72	96	88
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	73	85	90	76	83	74	72	94
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	62	81	82	68	71	64	75	80
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	66	89	91	77	82	78	93	91
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	58	75	86	81	91	96	82	88
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINE	66	82	86	81	87	95	93	95
LCS 140-87205/15-B	Lab Control Sample	72	87	83	87	88	86	127	119
LCSD 140-87205/16-B	Lab Control Sample Dup	80	91	85	89	88	84	114	103
MB 140-87205/17-B	Method Blank	72	83	81	81	81	85	89	90

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)		
		BghiP (20-130)	AN (20-130)	C6Ph (20-130)
140-36689-1	M23-NO.3 BOILER-RUN 1 COM	84	101	85
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	86	114	97
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	89	105	91

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Isotope Dilution Summary

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)		
		BghiP (20-130)	AN (20-130)	C6Ph (20-130)
140-36689-4	M23-NO.3 BOILER-RUN 4 COM	87	118	97
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	75	75	69
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	74	101	94
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	84	108	92
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	88	109	95
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINEI	95	108	94
LCS 140-87205/15-B	Lab Control Sample	109	98	91
LCSD 140-87205/16-B	Lab Control Sample Dup	105	88	85
MB 140-87205/17-B	Method Blank	88	100	98

Surrogate Legend

C6N = 13C6-Naphthalene
 C62MN = 13C6-2-Methylnaphthalene
 C6Acy = 13C6-Acenaphthylene
 C6Ace = 13C6-Acenaphthene
 C6Fle = 13C6-Fluorene
 C6Fla = 13C6-Fluoranthrene
 C3Pyr = 13C3-Pyrene
 C6BaA = 13C6-Benzo(a)anthracene
 C6Chr = 13C6-Chrysene
 C6BbF = 13C6-Benzo(b)fluoranthene
 C6BkF = 13C6-Benzo(k)fluoranthene
 C4BeP = 13C4-Benzo(e)pyrene
 C4BaP = 13C4-Benzo(a)pyrene
 PRY = Perylene-d12
 IND = 13C6-Indeno(1,2,3-cd)pyrene
 DBA = 13C6-Dibenz(a,h)anthracene
 BghiP = 13C12-Benzo(ghi)perylene
 AN = 13C6-Anthracene
 C6Ph = 13C6-Phenanthrene

QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Lab Sample ID: MB 140-87206/17-B

Matrix: Air

Analysis Batch: 87502

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87206

Analyte	MB Result	MB Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	ND		0.600	0.132	0.00951	ng/Sample		06/11/24 15:03	1
PCB-18	0.01359	J C	0.600	0.285	0.00201	ng/Sample		06/11/24 15:03	1
PCB-28	0.03178	J C20	0.600	0.252	0.00382	ng/Sample		06/11/24 15:03	1
PCB-44	ND	C	0.900	0.390	0.0303	ng/Sample		06/11/24 15:03	1
PCB-52	ND		0.300	0.132	0.0321	ng/Sample		06/11/24 15:03	1
PCB-66	ND		0.300	0.120	0.0234	ng/Sample		06/11/24 15:03	1
PCB-77	ND		0.300	0.126	0.0265	ng/Sample		06/11/24 15:03	1
PCB-81	ND		0.300	0.0960	0.0281	ng/Sample		06/11/24 15:03	1
PCB-101	ND	C90	0.900	0.390	0.00651	ng/Sample		06/11/24 15:03	1
PCB-105	ND		0.300	0.102	0.00773	ng/Sample		06/11/24 15:03	1
PCB-114	ND		0.300	0.165	0.00820	ng/Sample		06/11/24 15:03	1
PCB-118	0.007617	J q	0.300	0.183	0.00702	ng/Sample		06/11/24 15:03	1
PCB-123	ND		0.300	0.171	0.00834	ng/Sample		06/11/24 15:03	1
PCB-126	ND		0.300	0.123	0.00862	ng/Sample		06/11/24 15:03	1
PCB-128	ND	C	0.600	0.204	0.00553	ng/Sample		06/11/24 15:03	1
PCB-138	ND	C129	1.20	0.510	0.00575	ng/Sample		06/11/24 15:03	1
PCB-153	0.006756	J q C	0.600	0.249	0.00497	ng/Sample		06/11/24 15:03	1
PCB-156	ND	C	0.600	0.255	0.00610	ng/Sample		06/11/24 15:03	1
PCB-157	ND	C156	0.600	0.255	0.00610	ng/Sample		06/11/24 15:03	1
PCB-167	ND		0.300	0.180	0.00415	ng/Sample		06/11/24 15:03	1
PCB-169	0.009039	J q	0.300	0.123	0.00383	ng/Sample		06/11/24 15:03	1
PCB-170	ND		0.300	0.132	0.000254	ng/Sample		06/11/24 15:03	1
PCB-180	ND	C	0.600	0.204	0.000212	ng/Sample		06/11/24 15:03	1
PCB-187	ND		0.300	0.126	0.000224	ng/Sample		06/11/24 15:03	1
PCB-189	ND		0.300	0.147	0.00521	ng/Sample		06/11/24 15:03	1
PCB-195	ND		0.300	0.159	0.00151	ng/Sample		06/11/24 15:03	1
PCB-206	ND		0.300	0.171	0.0431	ng/Sample		06/11/24 15:03	1
PCB-209	0.002068	J q	0.300	0.138	0.00102	ng/Sample		06/11/24 15:03	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	72		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-3L	71		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-4L	73		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-15L	73		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-19L	68		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-37L	76		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-54L	73		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-77L	83		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-81L	80		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-104L	79		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-105L	86		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-114L	83		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-118L	84		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-123L	83		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-126L	88		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-155L	85		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-156L	88	C	20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-157L	88	C156	20 - 145	05/31/24 12:09	06/11/24 15:03	1

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QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Lab Sample ID: MB 140-87206/17-B

Matrix: Air

Analysis Batch: 87502

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87206

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
PCB-167L	86		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-169L	92		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-170L	90		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-188L	82		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-189L	86		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-202L	86		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-205L	90		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-206L	100		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-208L	95		20 - 145	05/31/24 12:09	06/11/24 15:03	1
PCB-209L	107		20 - 145	05/31/24 12:09	06/11/24 15:03	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
PCB-28L	74		20 - 130	05/31/24 12:09	06/11/24 15:03	1
PCB-111L	82		20 - 130	05/31/24 12:09	06/11/24 15:03	1
PCB-178L	82		20 - 130	05/31/24 12:09	06/11/24 15:03	1

Lab Sample ID: LCS 140-87206/15-B

Matrix: Air

Analysis Batch: 87502

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-77	15.0	14.11		ng/Sample		94	60 - 135
PCB-81	15.0	14.07		ng/Sample		94	60 - 135
PCB-105	15.0	14.09		ng/Sample		94	60 - 135
PCB-114	15.0	15.31		ng/Sample		102	60 - 135
PCB-118	15.0	13.95		ng/Sample		93	60 - 135
PCB-123	15.0	14.23		ng/Sample		95	60 - 135
PCB-126	15.0	17.32		ng/Sample		115	60 - 135
PCB-156	30.0	28.69	C	ng/Sample		96	60 - 135
PCB-157	30.0	28.69	C156	ng/Sample		96	60 - 135
PCB-167	15.0	15.15		ng/Sample		101	60 - 135
PCB-169	15.0	16.35		ng/Sample		109	60 - 135
PCB-189	15.0	15.62		ng/Sample		104	60 - 135
PCB-206	15.0	13.81		ng/Sample		92	60 - 135
PCB-209	15.0	13.62		ng/Sample		91	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
PCB-1L	68		15 - 145
PCB-3L	67		15 - 145
PCB-4L	71		15 - 145
PCB-15L	71		15 - 145
PCB-19L	69		15 - 145
PCB-37L	74		15 - 145
PCB-54L	73		15 - 145
PCB-77L	78		40 - 145
PCB-81L	77		40 - 145
PCB-104L	78		40 - 145
PCB-105L	84		40 - 145

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QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Lab Sample ID: LCS 140-87206/15-B

Matrix: Air

Analysis Batch: 87502

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87206

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
PCB-114L	81		40 - 145
PCB-118L	82		40 - 145
PCB-123L	81		40 - 145
PCB-126L	86		40 - 145
PCB-155L	82		40 - 145
PCB-156L	85	C	40 - 145
PCB-157L	85	C156	40 - 145
PCB-167L	83		40 - 145
PCB-169L	85		40 - 145
PCB-170L	86		40 - 145
PCB-188L	80		40 - 145
PCB-189L	83		40 - 145
PCB-202L	84		40 - 145
PCB-205L	88		40 - 145
PCB-206L	97		40 - 145
PCB-208L	94		40 - 145
PCB-209L	103		40 - 145

Surrogate	LCS		Limits
	%Recovery	Qualifier	
PCB-28L	72		15 - 145
PCB-111L	79		40 - 145
PCB-178L	83		40 - 145

Lab Sample ID: LCSD 140-87206/16-B

Matrix: Air

Analysis Batch: 87502

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87206

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
PCB-77	15.0	14.19		ng/Sample		95	60 - 135	1		50
PCB-81	15.0	14.21		ng/Sample		95	60 - 135	1		50
PCB-105	15.0	13.57		ng/Sample		90	60 - 135	4		50
PCB-114	15.0	14.79		ng/Sample		99	60 - 135	3		50
PCB-118	15.0	13.65		ng/Sample		91	60 - 135	2		50
PCB-123	15.0	14.51		ng/Sample		97	60 - 135	2		50
PCB-126	15.0	17.09		ng/Sample		114	60 - 135	1		50
PCB-156	30.0	28.65	C	ng/Sample		96	60 - 135	0		50
PCB-157	30.0	28.65	C156	ng/Sample		96	60 - 135	0		50
PCB-167	15.0	14.77		ng/Sample		98	60 - 135	3		50
PCB-169	15.0	16.20		ng/Sample		108	60 - 135	1		50
PCB-189	15.0	15.26		ng/Sample		102	60 - 135	2		50
PCB-206	15.0	14.10		ng/Sample		94	60 - 135	2		50
PCB-209	15.0	13.81		ng/Sample		92	60 - 135	1		50

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
PCB-1L	74		15 - 145
PCB-3L	71		15 - 145
PCB-4L	76		15 - 145
PCB-15L	75		15 - 145

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QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Lab Sample ID: LCSD 140-87206/16-B

Matrix: Air

Analysis Batch: 87502

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87206

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
PCB-19L	70		15 - 145
PCB-37L	78		15 - 145
PCB-54L	74		15 - 145
PCB-77L	82		40 - 145
PCB-81L	78		40 - 145
PCB-104L	79		40 - 145
PCB-105L	86		40 - 145
PCB-114L	84		40 - 145
PCB-118L	84		40 - 145
PCB-123L	82		40 - 145
PCB-126L	88		40 - 145
PCB-155L	82		40 - 145
PCB-156L	88	C	40 - 145
PCB-157L	88	C156	40 - 145
PCB-167L	86		40 - 145
PCB-169L	90		40 - 145
PCB-170L	92		40 - 145
PCB-188L	84		40 - 145
PCB-189L	87		40 - 145
PCB-202L	87		40 - 145
PCB-205L	91		40 - 145
PCB-206L	98		40 - 145
PCB-208L	96		40 - 145
PCB-209L	106		40 - 145

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
PCB-28L	73		15 - 145
PCB-111L	79		40 - 145
PCB-178L	84		40 - 145

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Lab Sample ID: MB 140-87205/17-B

Matrix: Air

Analysis Batch: 87921

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87205

Analyte	MB		RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	58.27	J	75.0	75.0	0.0697	ng/Sample		06/21/24 06:10	1
2-Methylnaphthalene	40.06	J	75.0	75.0	0.0439	ng/Sample		06/21/24 06:10	1
Acenaphthylene	0.5214	J	3.00	3.00	0.0366	ng/Sample		06/21/24 06:10	1
Acenaphthene	16.06	J	30.0	30.0	0.0594	ng/Sample		06/21/24 06:10	1
Fluorene	12.52	J	30.0	30.0	0.0561	ng/Sample		06/21/24 06:10	1
Phenanthrene	16.87		6.00	6.00	0.0694	ng/Sample		06/21/24 06:10	1
Anthracene	0.2451	J	30.0	30.0	0.0714	ng/Sample		06/21/24 06:10	1
Fluoranthene	3.728	J	6.00	6.00	0.0249	ng/Sample		06/21/24 06:10	1
Pyrene	3.792	J	6.00	6.00	0.0247	ng/Sample		06/21/24 06:10	1
Benzo[a]anthracene	0.08168	J	6.00	6.00	0.0207	ng/Sample		06/21/24 06:10	1
Chrysene	1.145	J	6.00	6.00	0.0199	ng/Sample		06/21/24 06:10	1
Benzo[b]fluoranthene	0.2680	J	30.0	30.0	0.00958	ng/Sample		06/21/24 06:10	1

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QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Lab Sample ID: MB 140-87205/17-B

Matrix: Air

Analysis Batch: 87921

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87205

Analyte	MB Result	MB Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Benzo[k]fluoranthene	0.1462	J	6.00	6.00	0.00920	ng/Sample		06/21/24 06:10	1
Benzo[e]pyrene	0.7434	J	6.00	6.00	0.00836	ng/Sample		06/21/24 06:10	1
Benzo[a]pyrene	0.1809	J	3.00	3.00	0.00894	ng/Sample		06/21/24 06:10	1
Perylene	0.2210	J	3.00	3.00	0.00773	ng/Sample		06/21/24 06:10	1
Indeno[1,2,3-cd]pyrene	0.1703	J	3.00	3.00	0.00713	ng/Sample		06/21/24 06:10	1
Dibenz(a,h)anthracene	0.1031	J	6.00	6.00	0.00571	ng/Sample		06/21/24 06:10	1
Benzo[g,h,i]perylene	0.2787	J	6.00	6.00	0.00590	ng/Sample		06/21/24 06:10	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	74		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-2-Methylnaphthalene	77		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-Acenaphthylene	89		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-Acenaphthene	89		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-Fluorene	96		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-Fluoranthrene	87		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C3-Pyrene	86		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-Benzo(a)anthracene	72		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-Chrysene	72		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-Benzo(b)fluoranthene	83		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-Benzo(k)fluoranthene	81		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C4-Benzo(e)pyrene	81		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C4-Benzo(a)pyrene	81		20 - 130	05/31/24 12:03	06/21/24 06:10	1
Perylene-d12	85		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-Indeno(1,2,3-cd)pyrene	89		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-Dibenz(a,h)anthracene	90		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C12-Benzo(ghi)perylene	88		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-Anthracene	100		20 - 130	05/31/24 12:03	06/21/24 06:10	1
13C6-Phenanthrene	98		20 - 130	05/31/24 12:03	06/21/24 06:10	1

Lab Sample ID: LCS 140-87205/15-B

Matrix: Air

Analysis Batch: 87921

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	150	185.4		ng/Sample		124	60 - 140
2-Methylnaphthalene	150	167.9		ng/Sample		112	60 - 140
Acenaphthylene	150	119.0		ng/Sample		79	60 - 140
Acenaphthene	150	141.4		ng/Sample		94	60 - 140
Fluorene	150	147.0		ng/Sample		98	60 - 140
Phenanthrene	150	152.0		ng/Sample		101	60 - 140
Anthracene	150	116.5		ng/Sample		78	60 - 140
Fluoranthene	150	141.8		ng/Sample		95	60 - 140
Pyrene	150	143.4		ng/Sample		96	60 - 140
Benzo[a]anthracene	150	151.7		ng/Sample		101	60 - 140
Chrysene	150	153.2		ng/Sample		102	60 - 140
Benzo[b]fluoranthene	150	141.8		ng/Sample		95	60 - 140
Benzo[k]fluoranthene	150	142.5		ng/Sample		95	60 - 140
Benzo[e]pyrene	150	144.0		ng/Sample		96	60 - 140
Benzo[a]pyrene	150	121.4		ng/Sample		81	60 - 140

Eurofins Knoxville

QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Lab Sample ID: LCS 140-87205/15-B

Matrix: Air

Analysis Batch: 87921

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perylene	150	133.1		ng/Sample		89	60 - 140
Indeno[1,2,3-cd]pyrene	150	139.2		ng/Sample		93	60 - 140
Dibenz(a,h)anthracene	150	139.3		ng/Sample		93	60 - 140
Benzo[g,h,i]perylene	150	134.7		ng/Sample		90	60 - 140

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C6-Naphthalene	83		20 - 130
13C6-2-Methylnaphthalene	84		20 - 130
13C6-Acenaphthylene	95		20 - 130
13C6-Acenaphthene	91		20 - 130
13C6-Fluorene	90		20 - 130
13C6-Fluoranthrene	88		20 - 130
13C3-Pyrene	87		20 - 130
13C6-Benzo(a)anthracene	74		20 - 130
13C6-Chrysene	72		20 - 130
13C6-Benzo(b)fluoranthene	87		20 - 130
13C6-Benzo(k)fluoranthene	83		20 - 130
13C4-Benzo(e)pyrene	87		20 - 130
13C4-Benzo(a)pyrene	88		20 - 130
Perylene-d12	86		20 - 130
13C6-Indeno(1,2,3-cd)pyrene	127		20 - 130
13C6-Dibenz(a,h)anthracene	119		20 - 130
13C12-Benzo(ghi)perylene	109		20 - 130
13C6-Anthracene	98		20 - 130
13C6-Phenanthrene	91		20 - 130

Lab Sample ID: LCSD 140-87205/16-B

Matrix: Air

Analysis Batch: 87921

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87205

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	150	192.8		ng/Sample		129	60 - 140	4	25
2-Methylnaphthalene	150	172.6		ng/Sample		115	60 - 140	3	25
Acenaphthylene	150	121.0		ng/Sample		81	60 - 140	2	25
Acenaphthene	150	147.9		ng/Sample		99	60 - 140	4	25
Fluorene	150	142.9		ng/Sample		95	60 - 140	3	25
Phenanthrene	150	152.3		ng/Sample		102	60 - 140	0	25
Anthracene	150	118.4		ng/Sample		79	60 - 140	2	25
Fluoranthene	150	139.6		ng/Sample		93	60 - 140	2	25
Pyrene	150	141.2		ng/Sample		94	60 - 140	2	25
Benzo[a]anthracene	150	148.8		ng/Sample		99	60 - 140	2	25
Chrysene	150	153.4		ng/Sample		102	60 - 140	0	25
Benzo[b]fluoranthene	150	139.7		ng/Sample		93	60 - 140	1	25
Benzo[k]fluoranthene	150	138.7		ng/Sample		92	60 - 140	3	25
Benzo[e]pyrene	150	144.7		ng/Sample		96	60 - 140	1	25
Benzo[a]pyrene	150	129.1		ng/Sample		86	60 - 140	6	25
Perylene	150	133.5		ng/Sample		89	60 - 140	0	25
Indeno[1,2,3-cd]pyrene	150	137.0		ng/Sample		91	60 - 140	2	25
Dibenz(a,h)anthracene	150	139.1		ng/Sample		93	60 - 140	0	25

Eurofins Knoxville

QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Lab Sample ID: LCSD 140-87205/16-B

Matrix: Air

Analysis Batch: 87921

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87205

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	150	133.7		ng/Sample		89	60 - 140	1	25
Isotope Dilution									
	LCSD %Recovery	LCSD Qualifier	Limits						
13C6-Naphthalene	70		20 - 130						
13C6-2-Methylnaphthalene	76		20 - 130						
13C6-Acenaphthylene	92		20 - 130						
13C6-Acenaphthene	87		20 - 130						
13C6-Fluorene	88		20 - 130						
13C6-Fluoranthrene	86		20 - 130						
13C3-Pyrene	85		20 - 130						
13C6-Benzo(a)anthracene	81		20 - 130						
13C6-Chrysene	80		20 - 130						
13C6-Benzo(b)fluoranthene	91		20 - 130						
13C6-Benzo(k)fluoranthene	85		20 - 130						
13C4-Benzo(e)pyrene	89		20 - 130						
13C4-Benzo(a)pyrene	88		20 - 130						
Perylene-d12	84		20 - 130						
13C6-Indeno(1,2,3-cd)pyrene	114		20 - 130						
13C6-Dibenz(a,h)anthracene	103		20 - 130						
13C12-Benzo(ghi)perylene	105		20 - 130						
13C6-Anthracene	88		20 - 130						
13C6-Phenanthrene	85		20 - 130						

Lab Chronicle

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 1 COMBINED

Lab Sample ID: 140-36689-1

Date Collected: 05/07/24 14:30

Matrix: Air

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87206	05/31/24 12:09	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87335	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87502	06/11/24 16:04	BKK	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87205	05/31/24 12:03	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87336	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87947	06/21/24 20:25	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: M23-NO.3 BOILER-RUN 2 COMBINED

Lab Sample ID: 140-36689-2

Date Collected: 05/07/24 19:40

Matrix: Air

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87206	05/31/24 12:09	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87335	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87502	06/11/24 17:06	BKK	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87205	05/31/24 12:03	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87336	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87947	06/21/24 21:29	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: M23-NO.3 BOILER-RUN 3 COMBINED

Lab Sample ID: 140-36689-3

Date Collected: 05/08/24 15:00

Matrix: Air

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87206	05/31/24 12:09	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87335	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87502	06/11/24 18:07	BKK	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87205	05/31/24 12:03	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87336	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87947	06/21/24 22:33	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: M23-NO.3 BOILER-RUN 4 COMBINED

Lab Sample ID: 140-36689-4

Date Collected: 05/08/24 19:00

Matrix: Air

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87206	05/31/24 12:09	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87335	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87502	06/11/24 19:08	BKK	EET KNX
Instrument ID: D2D										

Eurofins Knoxville

Lab Chronicle

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN 4 COMBINED

Lab Sample ID: 140-36689-4

Date Collected: 05/08/24 19:00

Matrix: Air

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87205	05/31/24 12:03	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87336	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87947	06/21/24 23:38	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: M23-NO.3 BOILER-RUN 5 COMBINED

Lab Sample ID: 140-36689-5

Date Collected: 05/09/24 15:20

Matrix: Air

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87206	05/31/24 12:09	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87335	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87502	06/11/24 20:09	BKK	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87205	05/31/24 12:03	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87336	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			88079	06/25/24 18:54	MSP	EET KNX
Instrument ID: D3PAH										

Client Sample ID: M23-NO.3 BOILER-RUN 6 COMBINED

Lab Sample ID: 140-36689-6

Date Collected: 05/09/24 19:15

Matrix: Air

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87206	05/31/24 12:09	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87335	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87536	06/12/24 05:36	MSP	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87205	05/31/24 12:03	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87336	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			88048	06/25/24 02:53	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: M23-NO.3 BOILER-RUN 7 COMBINED

Lab Sample ID: 140-36689-7

Date Collected: 05/10/24 13:45

Matrix: Air

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87206	05/31/24 12:09	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87335	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87536	06/12/24 06:37	MSP	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87205	05/31/24 12:03	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87336	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			88048	06/25/24 03:58	LKM	EET KNX
Instrument ID: D3PAH										

Eurofins Knoxville

Lab Chronicle

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: M23-NO.3 BOILER-RUN FB COMBINED

Lab Sample ID: 140-36689-8

Date Collected: 05/08/24 13:00

Matrix: Air

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87206	05/31/24 12:09	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87335	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87536	06/12/24 07:39	MSP	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87205	05/31/24 12:03	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87336	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			88048	06/25/24 05:02	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED

Lab Sample ID: 140-36689-14

Date Collected: 05/07/24 00:00

Matrix: Air

Date Received: 05/12/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87206	05/31/24 12:09	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87335	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87571	06/12/24 14:09	BKK	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87205	05/31/24 12:03	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87336	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			88048	06/25/24 06:06	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-87205/17-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87205	05/31/24 12:03	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87336	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87921	06/21/24 06:10	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-87206/17-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87206	05/31/24 12:09	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87335	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87502	06/11/24 15:03	BKK	EET KNX
Instrument ID: D2D										

Eurofins Knoxville

Lab Chronicle

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-87205/15-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87205	05/31/24 12:03	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87336	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87921	06/21/24 02:08	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-87206/15-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87206	05/31/24 12:09	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87335	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87502	06/11/24 11:16	BKK	EET KNX
Instrument ID: D2D										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-87205/16-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87205	05/31/24 12:03	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87336	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87921	06/21/24 03:12	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-87206/16-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87206	05/31/24 12:09	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87335	06/05/24 09:39	CAA	EET KNX
Total/NA	Analysis	23		1			87502	06/11/24 12:17	BKK	EET KNX
Instrument ID: D2D										

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Alliance Source Testing LLC
Project/Site: BASF M23 PAH/PCB

Job ID: 140-36689-1

Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-25
ANAB	Dept. of Energy	L2311.01	02-13-25
ANAB	ISO/IEC 17025	L2311	02-13-25
Arkansas DEQ	State	88-0688	06-17-25
Colorado	State	TN00009	02-28-25
Connecticut	State	PH-0223	10-01-26
Florida	NELAP	E87177	06-30-24
Georgia (DW)	State	906	07-27-25
Hawaii	State	NA	07-27-24
Kansas	NELAP	E-10349	10-31-24
Kentucky (DW)	State	90101	12-31-24
Louisiana (All)	NELAP	83979	06-30-24
Louisiana (DW)	State	LA019	12-31-24
Maryland	State	277	03-31-25
Michigan	State	9933	07-27-25
Nevada	State	TN00009	07-31-24
New Hampshire	NELAP	2999	01-17-25
New Jersey	NELAP	TN001	06-30-25
New York	NELAP	10781	03-31-25
North Carolina (DW)	State	21705	06-30-24
North Carolina (WW/SW)	State	64	12-31-24
Oklahoma	State	9415	08-31-24
Oregon	NELAP	TNI0189	01-01-25
Pennsylvania	NELAP	68-00576	12-31-24
Tennessee	State	02014	07-27-25
Texas	NELAP	T104704380	08-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	525-22-279-18762	10-06-25
Utah	NELAP	TN00009	07-31-24
Virginia	NELAP	460176	09-14-24
Washington	State	C593	01-19-25
West Virginia (DW)	State	9955C	12-31-24
West Virginia DEP	State	345	04-30-25
Wisconsin	State	998044300	08-07-24

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/1 Client Sample ID: _____

Date Analyzed: 05/31/24 14:36 Lab File ID: d2240531pila.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-23	21.82	Split Peak	V4XA	05/31/24 19:26
PCB-45	23.14	Incomplete Integration	P0IK	05/31/24 16:29
PCB-45/51	23.14	Incomplete Integration	P0IK	05/31/24 16:29
PCB-51	23.14	Incomplete Integration	P0IK	05/31/24 16:29
PCB-21	23.22	Incomplete Integration	P0IK	05/31/24 16:28
PCB-21/33	23.22	Incomplete Integration	P0IK	05/31/24 16:28
PCB-33	23.22	Incomplete Integration	P0IK	05/31/24 16:28
PCB-46	23.39	Incomplete Integration	P0IK	05/31/24 16:29
PCB-22	23.60	Baseline	V4XA	05/31/24 21:29
PCB-43	24.94	Incomplete Integration	P0IK	05/31/24 16:29
PCB-43/73	24.94	Incomplete Integration	P0IK	05/31/24 16:29
PCB-73	24.94	Incomplete Integration	P0IK	05/31/24 16:29
PCB-40	26.81	Incomplete Integration	P0IK	05/31/24 16:30
PCB-40/41/71	26.81	Incomplete Integration	P0IK	05/31/24 16:30
PCB-41	26.81	Incomplete Integration	P0IK	05/31/24 16:30
PCB-71	26.81	Incomplete Integration	P0IK	05/31/24 16:30
PCB-103	28.06	Baseline	V4XA	05/31/24 19:30
PCB-94	28.28	Invalid Compound ID	V4XA	05/31/24 19:30
PCB-102	29.13	Incomplete Integration	P0IK	05/31/24 16:39
PCB-98	29.13	Incomplete Integration	P0IK	05/31/24 16:39
PCB-98/102	29.13	Incomplete Integration	P0IK	05/31/24 16:39
PCB-88	29.48	Incomplete Integration	P0IK	05/31/24 16:39
PCB-88/91	29.48	Incomplete Integration	P0IK	05/31/24 16:39
PCB-91	29.48	Incomplete Integration	P0IK	05/31/24 16:39
PCB-84	29.79	Incomplete Integration	P0IK	05/31/24 16:39
PCB-121	30.69	Baseline	P0IK	05/31/24 16:40
PCB-101	31.63	Split Peak	V4XA	05/31/24 19:29
PCB-113	31.63	Split Peak	V4XA	05/31/24 19:29
PCB-90	31.63	Split Peak	V4XA	05/31/24 19:29
PCB-90/101/113	31.63	Split Peak	V4XA	05/31/24 19:29

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/1

Client Sample ID: _____

Date Analyzed: 05/31/24 14:36

Lab File ID: d2240531pila.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-83	32.24	Split Peak	V4XA	05/31/24 19:29
PCB-83/99	32.24	Split Peak	V4XA	05/31/24 19:29
PCB-99	32.24	Split Peak	V4XA	05/31/24 19:29
PCB-112	32.34	Baseline	V4XA	05/31/24 19:30
PCB-109	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-119	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-125	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-86	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-86/87/97/109/119/125	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-87	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-97	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-79	32.72	Baseline	P0IK	05/31/24 16:32
PCB-78	33.30	Incomplete Integration	P0IK	05/31/24 16:30
PCB-110	33.69	Incomplete Integration	P0IK	05/31/24 16:40
PCB-110/115	33.69	Incomplete Integration	P0IK	05/31/24 16:40
PCB-115	33.69	Incomplete Integration	P0IK	05/31/24 16:40
PCB-81	33.71	Incomplete Integration	P0IK	05/31/24 16:31
PCB-77	34.27	Incomplete Integration	P0IK	05/31/24 16:31
PCB-135	34.55	Incomplete Integration	P0IK	05/31/24 16:42
PCB-135/151	34.55	Incomplete Integration	P0IK	05/31/24 16:42
PCB-151	34.55	Incomplete Integration	P0IK	05/31/24 16:42
PCB-154	34.78	Baseline	V4XA	05/31/24 19:31
PCB-120	34.81	Split Peak	V4XA	05/31/24 21:31
PCB-144	35.13	Incomplete Integration	P0IK	05/31/24 16:42
PCB-147	35.47	Baseline	V4XA	05/31/24 19:32
PCB-147/149	35.47	Baseline	V4XA	05/31/24 19:32
PCB-149	35.47	Baseline	V4XA	05/31/24 19:32
PCB-108	35.92	Split Peak	V4XA	05/31/24 21:31
PCB-108/124	35.92	Split Peak	V4XA	05/31/24 21:31
PCB-124	35.92	Split Peak	V4XA	05/31/24 21:31

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/1 Client Sample ID: _____

Date Analyzed: 05/31/24 14:36 Lab File ID: d2240531pila.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-131	36.28	Baseline	P0IK	06/01/24 11:28
PCB-142	36.41	Baseline	P0IK	06/01/24 11:28
PCB-129	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-129/138/160/163	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-138	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-160	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-163	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-158	40.13	Incomplete Integration	P0IK	05/31/24 16:43
PCB-126	40.87	Baseline	P0IK	05/31/24 16:41
PCB-128	40.96	Incomplete Integration	P0IK	05/31/24 17:03
PCB-128/166	40.96	Incomplete Integration	P0IK	05/31/24 17:03
PCB-166	40.96	Incomplete Integration	P0IK	05/31/24 17:03
PCB-159L	41.95	Peak assignment corrected	P0IK	05/31/24 16:25
PCB-162	42.25	Baseline	P0IK	05/31/24 17:03
PCB-177	42.38	Baseline	V4XA	05/31/24 19:32
PCB-167	42.73	Incomplete Integration	P0IK	05/31/24 15:37
PCB-197	44.35	Incomplete Integration	P0IK	05/31/24 17:04
PCB-169	47.11	Incomplete Integration	P0IK	05/31/24 15:37
PCB-196	47.93	Incomplete Integration	P0IK	05/31/24 17:05
PCB-208	49.19	Baseline	P0IK	05/31/24 15:38
PCB-195	49.38	Baseline	V4XA	05/31/24 19:33
PCB-207	50.09	Incomplete Integration	P0IK	05/31/24 17:05
PCB-194	51.77	Incomplete Integration	P0IK	05/31/24 17:05
PCB-205	52.21	Incomplete Integration	P0IK	05/31/24 15:38
PCB-206	53.98	Baseline	P0IK	05/31/24 15:39

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/2

Client Sample ID: _____

Date Analyzed: 05/31/24 16:53

Lab File ID: d2240531pi2a.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-6	16.42	Baseline	V4XA	05/31/24 19:42
PCB-54L	20.22	Baseline	V4XA	05/31/24 21:35
PCB-54	20.24	Baseline	P0IK	05/31/24 17:57
PCB-21	23.14	Incomplete Integration	P0IK	05/31/24 18:02
PCB-21/33	23.14	Incomplete Integration	P0IK	05/31/24 18:02
PCB-33	23.14	Incomplete Integration	P0IK	05/31/24 18:02
PCB-45	23.15	Incomplete Integration	P0IK	05/31/24 18:02
PCB-45/51	23.15	Incomplete Integration	P0IK	05/31/24 18:02
PCB-51	23.15	Incomplete Integration	P0IK	05/31/24 18:02
PCB-43	24.96	Incomplete Integration	P0IK	05/31/24 18:03
PCB-43/73	24.96	Incomplete Integration	P0IK	05/31/24 18:03
PCB-73	24.96	Incomplete Integration	P0IK	05/31/24 18:03
PCB-49	25.24	Incomplete Integration	P0IK	05/31/24 18:03
PCB-49/69	25.24	Incomplete Integration	P0IK	05/31/24 18:03
PCB-69	25.24	Incomplete Integration	P0IK	05/31/24 18:03
PCB-104	25.75	Baseline	P0IK	05/31/24 17:55
PCB-38	26.10	Split Peak	V4XA	05/31/24 21:34
PCB-40	26.83	Incomplete Integration	P0IK	05/31/24 18:03
PCB-40/41/71	26.83	Incomplete Integration	P0IK	05/31/24 18:03
PCB-41	26.83	Incomplete Integration	P0IK	05/31/24 18:03
PCB-71	26.83	Incomplete Integration	P0IK	05/31/24 18:03
PCB-64	27.06	Split Peak	V4XA	05/31/24 21:35
PCB-102	29.14	Baseline	V4XA	05/31/24 19:35
PCB-98	29.14	Baseline	V4XA	05/31/24 19:35
PCB-98/102	29.14	Baseline	V4XA	05/31/24 19:35
PCB-61	29.59	Incomplete Integration	P0IK	05/31/24 18:04
PCB-61/70/74/76	29.59	Incomplete Integration	P0IK	05/31/24 18:04
PCB-70	29.59	Incomplete Integration	P0IK	05/31/24 18:04
PCB-74	29.59	Incomplete Integration	P0IK	05/31/24 18:04
PCB-76	29.59	Incomplete Integration	P0IK	05/31/24 18:04

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/2

Client Sample ID: _____

Date Analyzed: 05/31/24 16:53

Lab File ID: d2240531pi2a.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-89	30.29	Baseline	V4XA	05/31/24 19:36
PCB-121	30.69	Baseline	V4XA	05/31/24 19:36
PCB-92	31.07	Baseline	V4XA	05/31/24 19:36
PCB-83	32.21	Split Peak	V4XA	05/31/24 21:36
PCB-83/99	32.21	Split Peak	V4XA	05/31/24 21:36
PCB-99	32.21	Split Peak	V4XA	05/31/24 21:36
PCB-109	32.74	Baseline	V4XA	05/31/24 19:36
PCB-119	32.74	Baseline	V4XA	05/31/24 19:36
PCB-125	32.74	Baseline	V4XA	05/31/24 19:36
PCB-86	32.74	Baseline	V4XA	05/31/24 19:36
PCB-86/87/97/109/119/125	32.74	Baseline	V4XA	05/31/24 19:36
PCB-87	32.74	Baseline	V4XA	05/31/24 19:36
PCB-97	32.74	Baseline	V4XA	05/31/24 19:36
PCB-78	33.29	Baseline	V4XA	05/31/24 21:36
PCB-110	33.65	Baseline	V4XA	05/31/24 19:36
PCB-110/115	33.65	Baseline	V4XA	05/31/24 19:36
PCB-115	33.65	Baseline	V4XA	05/31/24 19:36
PCB-81	33.71	Split Peak	V4XA	05/31/24 19:35
PCB-135	34.60	Baseline	V4XA	05/31/24 21:38
PCB-135/151	34.60	Baseline	V4XA	05/31/24 21:38
PCB-151	34.60	Baseline	V4XA	05/31/24 21:38
PCB-134	35.68	Baseline	V4XA	05/31/24 21:38
PCB-134/143	35.68	Baseline	V4XA	05/31/24 21:38
PCB-143	35.68	Baseline	V4XA	05/31/24 21:38
PCB-108	35.93	Split Peak	V4XA	05/31/24 20:09
PCB-108/124	35.93	Split Peak	V4XA	05/31/24 20:09
PCB-124	35.93	Split Peak	V4XA	05/31/24 20:09
PCB-107	36.18	Split Peak	V4XA	05/31/24 20:09
PCB-131	36.28	Baseline	V4XA	06/01/24 03:35
PCB-142	36.40	Baseline	V4XA	06/01/24 03:35

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/2 Client Sample ID: _____

Date Analyzed: 05/31/24 16:53 Lab File ID: d2240531pi2a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-105	37.78	Split Peak	V4XA	05/31/24 21:37
PCB-129	39.74	Baseline	V4XA	05/31/24 21:39
PCB-129/138/160/163	39.74	Baseline	V4XA	05/31/24 21:39
PCB-138	39.74	Baseline	V4XA	05/31/24 21:39
PCB-160	39.74	Baseline	V4XA	05/31/24 21:39
PCB-163	39.74	Baseline	V4XA	05/31/24 21:39
PCB-183	41.71	Baseline	V4XA	05/31/24 19:40
PCB-183/185	41.71	Baseline	V4XA	05/31/24 19:40
PCB-185	41.71	Baseline	V4XA	05/31/24 19:40
PCB-159	41.96	Split Peak	V4XA	05/31/24 21:39
PCB-162	42.25	Split Peak	V4XA	05/31/24 21:39
PCB-177	42.38	Baseline	V4XA	05/31/24 19:41
PCB-170	46.55	Baseline	V4XA	05/31/24 19:40
PCB-169	47.12	Baseline	V4XA	05/31/24 21:40
PCB-208	49.20	Baseline	P0IK	05/31/24 17:56
PCB-195	49.39	Split Peak	V4XA	05/31/24 21:40
PCB-207	50.09	Baseline	V4XA	05/31/24 19:40
PCB-206	53.98	Baseline	P0IK	05/31/24 17:56

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/3

Client Sample ID: _____

Date Analyzed: 05/31/24 18:00

Lab File ID: d2240531pi3.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.83	Baseline	P0IK	05/31/24 19:08
PCB-54L	20.20	Baseline	V4XA	05/31/24 21:43
PCB-21	23.13	Baseline	V4XA	05/31/24 21:42
PCB-21/33	23.13	Baseline	V4XA	05/31/24 21:42
PCB-33	23.13	Baseline	V4XA	05/31/24 21:42
PCB-45	23.13	Baseline	V4XA	05/31/24 21:43
PCB-45/51	23.13	Baseline	V4XA	05/31/24 21:43
PCB-51	23.13	Baseline	V4XA	05/31/24 21:43
PCB-43	24.94	Baseline	V4XA	05/31/24 21:44
PCB-43/73	24.94	Baseline	V4XA	05/31/24 21:44
PCB-73	24.94	Baseline	V4XA	05/31/24 21:44
PCB-40	26.80	Baseline	V4XA	05/31/24 21:44
PCB-40/41/71	26.80	Baseline	V4XA	05/31/24 21:44
PCB-41	26.80	Baseline	V4XA	05/31/24 21:44
PCB-71	26.80	Baseline	V4XA	05/31/24 21:44
PCB-102	29.08	Baseline	V4XA	05/31/24 21:46
PCB-98	29.08	Baseline	V4XA	05/31/24 21:46
PCB-98/102	29.08	Baseline	V4XA	05/31/24 21:46
PCB-88	29.46	Baseline	V4XA	05/31/24 21:46
PCB-88/91	29.46	Baseline	V4XA	05/31/24 21:46
PCB-91	29.46	Baseline	V4XA	05/31/24 21:46
PCB-61	29.57	Baseline	V4XA	05/31/24 21:44
PCB-61/70/74/76	29.57	Baseline	V4XA	05/31/24 21:44
PCB-70	29.57	Baseline	V4XA	05/31/24 21:44
PCB-74	29.57	Baseline	V4XA	05/31/24 21:44
PCB-76	29.57	Baseline	V4XA	05/31/24 21:44
PCB-56	30.56	Split Peak	V4XA	05/31/24 21:45
PCB-83	32.21	Split Peak	V4XA	05/31/24 21:46
PCB-83/99	32.21	Split Peak	V4XA	05/31/24 21:46
PCB-99	32.21	Split Peak	V4XA	05/31/24 21:46

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/3

Client Sample ID: _____

Date Analyzed: 05/31/24 18:00

Lab File ID: d2240531pi3.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-109	32.70	Baseline	V4XA	05/31/24 21:46
PCB-119	32.70	Baseline	V4XA	05/31/24 21:46
PCB-125	32.70	Baseline	V4XA	05/31/24 21:46
PCB-86	32.70	Baseline	V4XA	05/31/24 21:46
PCB-86/87/97/109/119/125	32.70	Baseline	V4XA	05/31/24 21:46
PCB-87	32.70	Baseline	V4XA	05/31/24 21:46
PCB-97	32.70	Baseline	V4XA	05/31/24 21:46
PCB-78	33.25	Baseline	V4XA	05/31/24 21:45
PCB-116	33.43	Baseline	V4XA	05/31/24 21:47
PCB-117	33.43	Baseline	V4XA	05/31/24 21:47
PCB-85	33.43	Baseline	V4XA	05/31/24 21:47
PCB-85/116/117	33.43	Baseline	V4XA	05/31/24 21:47
PCB-110	33.62	Baseline	V4XA	05/31/24 21:47
PCB-110/115	33.62	Baseline	V4XA	05/31/24 21:47
PCB-115	33.62	Baseline	V4XA	05/31/24 21:47
PCB-81	33.70	Split Peak	V4XA	05/31/24 21:45
PCB-105	37.77	Split Peak	V4XA	05/31/24 21:47
PCB-127	39.25	Baseline	V4XA	05/31/24 21:48
PCB-129	39.73	Baseline	V4XA	05/31/24 21:50
PCB-129/138/160/163	39.73	Baseline	V4XA	05/31/24 21:50
PCB-138	39.73	Baseline	V4XA	05/31/24 21:50
PCB-160	39.73	Baseline	V4XA	05/31/24 21:50
PCB-163	39.73	Baseline	V4XA	05/31/24 21:50
PCB-183	41.69	Baseline	V4XA	05/31/24 21:50
PCB-183/185	41.69	Baseline	V4XA	05/31/24 21:50
PCB-185	41.69	Baseline	V4XA	05/31/24 21:50
PCB-190	47.04	Split Peak	V4XA	05/31/24 21:51
PCB-208	49.18	Baseline	V4XA	05/31/24 21:51
PCB-207	50.11	Baseline	V4XA	05/31/24 21:51
PCB-206	53.97	Baseline	V4XA	05/31/24 21:51

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/4

Client Sample ID: _____

Date Analyzed: 05/31/24 19:10

Lab File ID: d2240531pi4.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.12	Baseline	V4XA	05/31/24 21:23
PCB-21/33	23.12	Baseline	V4XA	05/31/24 21:23
PCB-33	23.12	Baseline	V4XA	05/31/24 21:23
PCB-45	23.13	Baseline	V4XA	05/31/24 21:23
PCB-45/51	23.13	Baseline	V4XA	05/31/24 21:23
PCB-51	23.13	Baseline	V4XA	05/31/24 21:23
PCB-52	24.78	Split Peak	V4XA	05/31/24 21:24
PCB-43	24.93	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-43/73	24.93	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-73	24.93	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-49	25.23	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-49/69	25.23	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-69	25.23	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-40	26.80	Baseline	V4XA	05/31/24 21:25
PCB-40/41/71	26.80	Baseline	V4XA	05/31/24 21:25
PCB-41	26.80	Baseline	V4XA	05/31/24 21:25
PCB-71	26.80	Baseline	V4XA	05/31/24 21:25
PCB-61	29.56	Baseline	V4XA	05/31/24 21:25
PCB-61/70/74/76	29.56	Baseline	V4XA	05/31/24 21:25
PCB-70	29.56	Baseline	V4XA	05/31/24 21:25
PCB-74	29.56	Baseline	V4XA	05/31/24 21:25
PCB-76	29.56	Baseline	V4XA	05/31/24 21:25
PCB-109	32.70	Baseline	V4XA	05/31/24 21:26
PCB-119	32.70	Baseline	V4XA	05/31/24 21:26
PCB-125	32.70	Baseline	V4XA	05/31/24 21:26
PCB-86	32.70	Baseline	V4XA	05/31/24 21:26
PCB-86/87/97/109/119/125	32.70	Baseline	V4XA	05/31/24 21:26
PCB-87	32.70	Baseline	V4XA	05/31/24 21:26
PCB-97	32.70	Baseline	V4XA	05/31/24 21:26
PCB-135	34.53	Invalid Compound ID	V4XA	05/31/24 20:54

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Instrument ID: D2D Analysis Batch Number: 87130
 Lab Sample ID: IC 140-87130/4 Client Sample ID: _____
 Date Analyzed: 05/31/24 19:10 Lab File ID: d2240531pi4.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-135/151	34.53	Invalid Compound ID	V4XA	05/31/24 20:54
PCB-151	34.53	Invalid Compound ID	V4XA	05/31/24 20:54
PCB-131	36.25	Baseline	V4XA	06/01/24 03:37
PCB-142	36.39	Baseline	V4XA	06/01/24 03:37
PCB-129	39.72	Baseline	V4XA	05/31/24 21:27
PCB-129/138/160/163	39.72	Baseline	V4XA	05/31/24 21:27
PCB-138	39.72	Baseline	V4XA	05/31/24 21:27
PCB-160	39.72	Baseline	V4XA	05/31/24 21:27
PCB-163	39.72	Baseline	V4XA	05/31/24 21:27
PCB-183	41.69	Invalid Compound ID	V4XA	05/31/24 21:28
PCB-183/185	41.69	Invalid Compound ID	V4XA	05/31/24 21:28
PCB-185	41.69	Invalid Compound ID	V4XA	05/31/24 21:28
PCB-206	53.96	Baseline	V4XA	06/01/24 03:12

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/5

Client Sample ID: _____

Date Analyzed: 05/31/24 20:12

Lab File ID: d2240531pi5.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.10	Baseline	V4XA	06/01/24 02:57
PCB-21/33	23.10	Baseline	V4XA	06/01/24 02:57
PCB-33	23.10	Baseline	V4XA	06/01/24 02:57
PCB-45	23.12	Baseline	V4XA	06/01/24 02:57
PCB-45/51	23.12	Baseline	V4XA	06/01/24 02:57
PCB-51	23.12	Baseline	V4XA	06/01/24 02:57
PCB-43	24.92	Baseline	V4XA	06/01/24 02:57
PCB-43/73	24.92	Baseline	V4XA	06/01/24 02:57
PCB-73	24.92	Baseline	V4XA	06/01/24 02:57
PCB-40	26.79	Baseline	V4XA	06/01/24 02:58
PCB-40/41/71	26.79	Baseline	V4XA	06/01/24 02:58
PCB-41	26.79	Baseline	V4XA	06/01/24 02:58
PCB-71	26.79	Baseline	V4XA	06/01/24 02:58
PCB-102	29.05	Baseline	V4XA	06/01/24 02:58
PCB-98	29.05	Baseline	V4XA	06/01/24 02:58
PCB-98/102	29.05	Baseline	V4XA	06/01/24 02:58
PCB-61	29.55	Baseline	V4XA	06/01/24 02:58
PCB-61/70/74/76	29.55	Baseline	V4XA	06/01/24 02:58
PCB-70	29.55	Baseline	V4XA	06/01/24 02:58
PCB-74	29.55	Baseline	V4XA	06/01/24 02:58
PCB-76	29.55	Baseline	V4XA	06/01/24 02:58
PCB-109	32.68	Baseline	V4XA	06/01/24 02:58
PCB-119	32.68	Baseline	V4XA	06/01/24 02:58
PCB-125	32.68	Baseline	V4XA	06/01/24 02:58
PCB-86	32.68	Baseline	V4XA	06/01/24 02:58
PCB-86/87/97/109/119/125	32.68	Baseline	V4XA	06/01/24 02:58
PCB-87	32.68	Baseline	V4XA	06/01/24 02:58
PCB-97	32.68	Baseline	V4XA	06/01/24 02:58
PCB-110	33.59	Baseline	V4XA	06/01/24 02:59
PCB-110/115	33.59	Baseline	V4XA	06/01/24 02:59

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/5 Client Sample ID: _____

Date Analyzed: 05/31/24 20:12 Lab File ID: d2240531pi5.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-115	33.59	Baseline	V4XA	06/01/24 02:59
PCB-135	34.51	Baseline	V4XA	06/01/24 02:59
PCB-135/151	34.51	Baseline	V4XA	06/01/24 02:59
PCB-151	34.51	Baseline	V4XA	06/01/24 02:59
PCB-129	39.72	Baseline	V4XA	06/01/24 03:00
PCB-129/138/160/163	39.72	Baseline	V4XA	06/01/24 03:00
PCB-138	39.72	Baseline	V4XA	06/01/24 03:00
PCB-160	39.72	Baseline	V4XA	06/01/24 03:00
PCB-163	39.72	Baseline	V4XA	06/01/24 03:00
PCB-158	40.10	Invalid Compound ID	V4XA	06/01/24 03:01
PCB-183	41.69	Invalid Compound ID	V4XA	06/01/24 03:01
PCB-183/185	41.69	Invalid Compound ID	V4XA	06/01/24 03:01
PCB-185	41.69	Invalid Compound ID	V4XA	06/01/24 03:01

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/6

Client Sample ID: _____

Date Analyzed: 05/31/24 21:13

Lab File ID: d2240531pi6.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-54L	20.16	Baseline	V4XA	06/01/24 03:03
PCB-21	23.10	Baseline	V4XA	06/01/24 03:03
PCB-21/33	23.10	Baseline	V4XA	06/01/24 03:03
PCB-33	23.10	Baseline	V4XA	06/01/24 03:03
PCB-45	23.10	Baseline	V4XA	06/01/24 03:03
PCB-45/51	23.10	Baseline	V4XA	06/01/24 03:03
PCB-51	23.10	Baseline	V4XA	06/01/24 03:03
PCB-43	24.90	Invalid Compound ID	V4XA	06/01/24 03:04
PCB-43/73	24.90	Invalid Compound ID	V4XA	06/01/24 03:04
PCB-73	24.90	Invalid Compound ID	V4XA	06/01/24 03:04
PCB-49	25.20	Split Peak	V4XA	06/01/24 03:04
PCB-49/69	25.20	Split Peak	V4XA	06/01/24 03:04
PCB-69	25.20	Split Peak	V4XA	06/01/24 03:04
PCB-40	26.77	Invalid Compound ID	V4XA	06/01/24 03:05
PCB-40/41/71	26.77	Invalid Compound ID	V4XA	06/01/24 03:05
PCB-41	26.77	Invalid Compound ID	V4XA	06/01/24 03:05
PCB-71	26.77	Invalid Compound ID	V4XA	06/01/24 03:05
PCB-121	30.66	Baseline	V4XA	06/01/24 03:06
PCB-92	31.03	Baseline	V4XA	06/01/24 03:06
PCB-109	32.68	Baseline	V4XA	06/01/24 03:06
PCB-119	32.68	Baseline	V4XA	06/01/24 03:06
PCB-125	32.68	Baseline	V4XA	06/01/24 03:06
PCB-86	32.68	Baseline	V4XA	06/01/24 03:06
PCB-86/87/97/109/119/125	32.68	Baseline	V4XA	06/01/24 03:06
PCB-87	32.68	Baseline	V4XA	06/01/24 03:06
PCB-97	32.68	Baseline	V4XA	06/01/24 03:06
PCB-135	34.51	Baseline	V4XA	06/01/24 03:06
PCB-135/151	34.51	Baseline	V4XA	06/01/24 03:06
PCB-151	34.51	Baseline	V4XA	06/01/24 03:06
PCB-129	39.72	Baseline	V4XA	06/01/24 03:07

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/6 Client Sample ID: _____

Date Analyzed: 05/31/24 21:13 Lab File ID: d2240531pi6.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-129/138/160/163	39.72	Baseline	V4XA	06/01/24 03:07
PCB-138	39.72	Baseline	V4XA	06/01/24 03:07
PCB-160	39.72	Baseline	V4XA	06/01/24 03:07
PCB-163	39.72	Baseline	V4XA	06/01/24 03:07
PCB-183	41.69	Invalid Compound ID	V4XA	06/01/24 03:07
PCB-183/185	41.69	Invalid Compound ID	V4XA	06/01/24 03:07
PCB-185	41.69	Invalid Compound ID	V4XA	06/01/24 03:07
PCB-206	53.96	Baseline	V4XA	06/01/24 03:12

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: ICV 140-87130/7 Client Sample ID: _____

Date Analyzed: 05/31/24 22:58 Lab File ID: d2240531icv.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-21/33	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-33	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-45	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-45/51	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-51	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-43	24.92	Incomplete Integration	P0IK	06/01/24 11:08
PCB-43/73	24.92	Incomplete Integration	P0IK	06/01/24 11:08
PCB-73	24.92	Incomplete Integration	P0IK	06/01/24 11:08
PCB-40	26.77	Incomplete Integration	P0IK	06/01/24 11:08
PCB-40/41/71	26.77	Incomplete Integration	P0IK	06/01/24 11:08
PCB-41	26.77	Incomplete Integration	P0IK	06/01/24 11:08
PCB-71	26.77	Incomplete Integration	P0IK	06/01/24 11:08
PCB-102	29.05	Incomplete Integration	P0IK	06/01/24 11:09
PCB-98	29.05	Incomplete Integration	P0IK	06/01/24 11:09
PCB-98/102	29.05	Incomplete Integration	P0IK	06/01/24 11:09
PCB-109	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-119	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-125	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-86	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-86/87/97/109/119/125	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-87	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-97	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-135	34.56	Incomplete Integration	P0IK	06/01/24 11:10
PCB-135/151	34.56	Incomplete Integration	P0IK	06/01/24 11:10
PCB-151	34.56	Incomplete Integration	P0IK	06/01/24 11:10
PCB-129	39.71	Incomplete Integration	P0IK	06/01/24 11:10
PCB-129/138/160/163	39.71	Incomplete Integration	P0IK	06/01/24 11:10
PCB-138	39.71	Incomplete Integration	P0IK	06/01/24 11:10
PCB-160	39.71	Incomplete Integration	P0IK	06/01/24 11:10

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Instrument ID: D2D Analysis Batch Number: 87130
 Lab Sample ID: ICV 140-87130/7 Client Sample ID: _____
 Date Analyzed: 05/31/24 22:58 Lab File ID: d2240531icv.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-163	39.71	Incomplete Integration	P0IK	06/01/24 11:10
PCB-183	41.67	Incomplete Integration	P0IK	06/01/24 11:11
PCB-183/185	41.67	Incomplete Integration	P0IK	06/01/24 11:11
PCB-185	41.67	Incomplete Integration	P0IK	06/01/24 11:11

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87502

Lab Sample ID: WDMCCV 140-87502/1 Client Sample ID: _____

Date Analyzed: 06/11/24 09:41 Lab File ID: d2240611c1a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.04	Incomplete Integration	OWJ7	06/11/24 10:42
PCB-21/33	23.04	Incomplete Integration	OWJ7	06/11/24 10:42
PCB-33	23.04	Incomplete Integration	OWJ7	06/11/24 10:42
PCB-45	23.04	Incomplete Integration	OWJ7	06/11/24 10:42
PCB-45/51	23.04	Incomplete Integration	OWJ7	06/11/24 10:42
PCB-51	23.04	Incomplete Integration	OWJ7	06/11/24 10:42
PCB-43	24.85	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-43/73	24.85	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-73	24.85	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-40	26.72	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-40/41/71	26.72	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-41	26.72	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-71	26.72	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-109	32.60	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-119	32.60	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-125	32.60	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-86	32.60	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-86/87/97/109/119/125	32.60	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-87	32.60	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-97	32.60	Incomplete Integration	OWJ7	06/11/24 10:43
PCB-135	34.42	Incomplete Integration	OWJ7	06/11/24 10:44
PCB-135/151	34.42	Incomplete Integration	OWJ7	06/11/24 10:44
PCB-151	34.42	Incomplete Integration	OWJ7	06/11/24 10:44
PCB-147	35.33	Incomplete Integration	P0IK	06/11/24 16:30
PCB-147/149	35.33	Incomplete Integration	P0IK	06/11/24 16:30
PCB-149	35.33	Incomplete Integration	P0IK	06/11/24 16:30
PCB-129	39.62	Incomplete Integration	OWJ7	06/11/24 10:44
PCB-129/138/160/163	39.62	Incomplete Integration	OWJ7	06/11/24 10:44
PCB-138	39.62	Incomplete Integration	OWJ7	06/11/24 10:44
PCB-160	39.62	Incomplete Integration	OWJ7	06/11/24 10:44

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Instrument ID: D2D Analysis Batch Number: 87502
 Lab Sample ID: WDMCCV 140-87502/1 Client Sample ID: _____
 Date Analyzed: 06/11/24 09:41 Lab File ID: d2240611c1a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-163	39.62	Incomplete Integration	OWJ7	06/11/24 10:44
PCB-183	41.58	Incomplete Integration	OWJ7	06/11/24 10:45
PCB-183/185	41.58	Incomplete Integration	OWJ7	06/11/24 10:45
PCB-185	41.58	Incomplete Integration	OWJ7	06/11/24 10:45
PCB-174	41.82	Incomplete Integration	OWJ7	06/11/24 10:45

Lab Sample ID: LCS 140-87206/15-B Client Sample ID: _____
 Date Analyzed: 06/11/24 11:16 Lab File ID: lcs140-87206-15-b.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-138	39.61	Incomplete Integration	P0IK	06/11/24 14:37

Lab Sample ID: LCSD 140-87206/16-B Client Sample ID: _____
 Date Analyzed: 06/11/24 12:17 Lab File ID: lcsl40-87206-16-b.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-138	39.61	Incomplete Integration	P0IK	06/11/24 14:56

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Instrument ID: D2D Analysis Batch Number: 87502
 Lab Sample ID: MB 140-87206/17-B Client Sample ID: _____
 Date Analyzed: 06/11/24 15:03 Lab File ID: mb140-87206-17-b.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-18	18.88	Incomplete Integration	P0IK	06/11/24 16:16
PCB-28	22.84	Incomplete Integration	P0IK	06/11/24 16:16
PCB-77	34.15	Incomplete Integration	TT6I	06/12/24 08:35
PCB-118	36.49	Invalid Compound ID	P0IK	06/11/24 16:18
PCB-169	46.99	Baseline	P0IK	06/11/24 16:19
PCB-209	55.50	Incomplete Integration	TT6I	06/12/24 08:34

Lab Sample ID: 140-36689-1 Client Sample ID: M23-NO.3 BOILER-RUN 1 COMBINED
 Date Analyzed: 06/11/24 16:04 Lab File ID: 140-36689-a-1-c.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8	16.82	Baseline	P0IK	06/11/24 17:25
PCB-8L	16.82	Baseline	P0IK	06/11/24 17:25
PCB-15L	20.05	Baseline	P0IK	06/11/24 17:25
PCB-54L	20.34	Incomplete Integration	P0IK	06/11/24 17:51
PCB-52	24.77	Baseline	P0IK	06/11/24 17:32
PCB-114	37.01	Incomplete Integration	P0IK	06/11/24 17:37
PCB-138	39.62	Incomplete Integration	TT6I	06/12/24 09:13
PCB-187	40.94	Incomplete Integration	P0IK	06/11/24 17:42
PCB-180	45.09	Incomplete Integration	P0IK	06/11/24 17:42
PCB-209	55.39	Incomplete Integration	TT6I	06/12/24 09:14

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87502

Lab Sample ID: 140-36689-2

Client Sample ID: M23-NO.3 BOILER-RUN 2 COMBINED

Date Analyzed: 06/11/24 17:06

Lab File ID: 140-36689-a-2-c.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.84	Baseline	Q9DB	06/11/24 18:07
PCB-8	16.85	Baseline	Q9DB	06/11/24 18:08
PCB-18	19.17	Baseline	Q9DB	06/11/24 18:09
PCB-15L	20.07	Baseline	Q9DB	06/11/24 18:07
PCB-54L	20.36	Baseline	Q9DB	06/11/24 18:42
PCB-52	24.76	Baseline	Q9DB	06/11/24 18:12
PCB-123	36.16	Split Peak	Q9DB	06/11/24 18:17
PCB-170	46.40	Baseline	Q9DB	06/11/24 18:20

Lab Sample ID: 140-36689-3

Client Sample ID: M23-NO.3 BOILER-RUN 3 COMBINED

Date Analyzed: 06/11/24 18:07

Lab File ID: 140-36689-a-3-c.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-167		Invalid Compound ID	Q9DB	06/11/24 19:45
PCB-195		Invalid Compound ID	Q9DB	06/11/24 19:48
PCB-8L	16.82	Baseline	Q9DB	06/11/24 19:25
PCB-8	16.86	Baseline	Q9DB	06/11/24 19:26
PCB-15L	20.07	Baseline	Q9DB	06/11/24 19:25
PCB-54L	20.36	Baseline	Q9DB	06/11/24 19:31
PCB-28	22.95	Invalid Compound ID	Q9DB	06/11/24 19:29
PCB-52	24.75	Baseline	Q9DB	06/11/24 19:31
PCB-101	31.53	Baseline	Q9DB	06/11/24 19:38
PCB-77	34.14	Baseline	Q9DB	06/11/24 19:33
PCB-153	38.35	Baseline	Q9DB	06/11/24 19:43
PCB-138	39.60	Baseline	Q9DB	06/11/24 19:43
PCB-128	40.82	Baseline	Q9DB	06/11/24 19:45
PCB-187	40.95	Baseline	Q9DB	06/11/24 19:46
PCB-180	45.12	Baseline	Q9DB	06/11/24 19:47
PCB-209	55.39	Baseline	Q9DB	06/11/24 19:48

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87502

Lab Sample ID: 140-36689-4 Client Sample ID: M23-NO.3 BOILER-RUN 4 COMBINED

Date Analyzed: 06/11/24 19:08 Lab File ID: 140-36689-a-4-c.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.81	Baseline	Q9DB	06/11/24 20:12
PCB-8	16.83	Baseline	Q9DB	06/11/24 20:12
PCB-18	19.16	Baseline	Q9DB	06/11/24 20:13
PCB-15L	20.05	Baseline	Q9DB	06/11/24 20:12
PCB-54L	20.34	Baseline	Q9DB	06/11/24 20:20
PCB-77	34.18	Baseline	Q9DB	06/11/24 20:24
PCB-123	36.11	Baseline	Q9DB	06/11/24 20:26
PCB-118	36.46	Incomplete Integration	TT6I	06/12/24 10:30
PCB-126	40.76	Baseline	Q9DB	06/11/24 20:26
PCB-187	40.95	Baseline	Q9DB	06/11/24 20:29
PCB-209	55.43	Baseline	Q9DB	06/11/24 20:33

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87502

Lab Sample ID: 140-36689-5 Client Sample ID: M23-NO.3 BOILER-RUN 5 COMBINED

Date Analyzed: 06/11/24 20:09 Lab File ID: 140-36689-a-5-c.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-195		Invalid Compound ID	Q9DB	06/12/24 00:08
PCB-8L	16.82	Baseline	Q9DB	06/11/24 23:49
PCB-8	16.86	Baseline	Q9DB	06/11/24 23:51
PCB-15L	20.09	Baseline	Q9DB	06/11/24 23:49
PCB-54L	20.37	Baseline	Q9DB	06/11/24 23:56
PCB-28	22.94	Baseline	Q9DB	06/11/24 23:55
PCB-44	25.75	Baseline	Q9DB	06/11/24 23:57
PCB-66	29.81	Baseline	Q9DB	06/11/24 23:58
PCB-118	36.45	Baseline	Q9DB	06/12/24 00:01
PCB-153	38.33	Baseline	Q9DB	06/12/24 00:05
PCB-138	39.58	Baseline	Q9DB	06/12/24 00:06
PCB-156	43.68	Incomplete Integration	TT6I	06/12/24 10:53
PCB-157	43.68	Incomplete Integration	TT6I	06/12/24 10:53
PCB-180	45.15	Incomplete Integration	TT6I	06/12/24 10:53
PCB-209	55.40	Incomplete Integration	TT6I	06/12/24 10:54

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87536

Lab Sample ID: WDMCCV 140-87536/1

Client Sample ID: _____

Date Analyzed: 06/11/24 21:36

Lab File ID: d2240611c2a.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	22.99	Baseline	Q9DB	06/11/24 22:57
PCB-21/33	22.99	Baseline	Q9DB	06/11/24 22:57
PCB-33	22.99	Baseline	Q9DB	06/11/24 22:57
PCB-45	22.99	Baseline	Q9DB	06/11/24 22:58
PCB-45/51	22.99	Baseline	Q9DB	06/11/24 22:58
PCB-51	22.99	Baseline	Q9DB	06/11/24 22:58
PCB-43	24.79	Baseline	Q9DB	06/11/24 22:59
PCB-43/73	24.79	Baseline	Q9DB	06/11/24 22:59
PCB-73	24.79	Baseline	Q9DB	06/11/24 22:59
PCB-35	26.39	Baseline	Q9DB	06/11/24 22:58
PCB-40	26.66	Baseline	Q9DB	06/11/24 22:59
PCB-40/41/71	26.66	Baseline	Q9DB	06/11/24 22:59
PCB-41	26.66	Baseline	Q9DB	06/11/24 22:59
PCB-71	26.66	Baseline	Q9DB	06/11/24 22:59
PCB-102	28.91	Baseline	Q9DB	06/11/24 23:00
PCB-98	28.91	Baseline	Q9DB	06/11/24 23:00
PCB-98/102	28.91	Baseline	Q9DB	06/11/24 23:00
PCB-109	32.54	Baseline	Q9DB	06/11/24 23:00
PCB-119	32.54	Baseline	Q9DB	06/11/24 23:00
PCB-125	32.54	Baseline	Q9DB	06/11/24 23:00
PCB-86	32.54	Baseline	Q9DB	06/11/24 23:00
PCB-86/87/97/109/119/125	32.54	Baseline	Q9DB	06/11/24 23:00
PCB-87	32.54	Baseline	Q9DB	06/11/24 23:00
PCB-97	32.54	Baseline	Q9DB	06/11/24 23:00
PCB-135	34.36	Baseline	Q9DB	06/11/24 23:01
PCB-135/151	34.36	Baseline	Q9DB	06/11/24 23:01
PCB-151	34.36	Baseline	Q9DB	06/11/24 23:01
PCB-129	39.57	Baseline	Q9DB	06/11/24 23:01
PCB-129/138/160/163	39.57	Baseline	Q9DB	06/11/24 23:01
PCB-138	39.57	Baseline	Q9DB	06/11/24 23:01

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87536

Lab Sample ID: WDMCCV 140-87536/1 Client Sample ID: _____

Date Analyzed: 06/11/24 21:36 Lab File ID: d2240611c2a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-160	39.57	Baseline	Q9DB	06/11/24 23:01
PCB-163	39.57	Baseline	Q9DB	06/11/24 23:01
PCB-183	41.53	Baseline	Q9DB	06/11/24 23:02
PCB-183/185	41.53	Baseline	Q9DB	06/11/24 23:02
PCB-185	41.53	Baseline	Q9DB	06/11/24 23:02

Lab Sample ID: 140-36689-6 Client Sample ID: M23-NO.3 BOILER-RUN 6 COMBINED

Date Analyzed: 06/12/24 05:36 Lab File ID: 140-36689-a-6-c.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.81	Incomplete Integration	P0IK	06/12/24 15:09
PCB-8	16.82	Incomplete Integration	P0IK	06/12/24 15:10
PCB-15L	20.04	Incomplete Integration	P0IK	06/12/24 15:09
PCB-54L	20.33	Incomplete Integration	P0IK	06/12/24 15:12
PCB-52	24.72	Incomplete Integration	P0IK	06/12/24 15:12
PCB-180	45.11	Baseline	P0IK	06/12/24 15:26
PCB-170	46.37	Incomplete Integration	P0IK	06/12/24 15:27

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87536

Lab Sample ID: 140-36689-7 Client Sample ID: M23-NO.3 BOILER-RUN 7 COMBINED

Date Analyzed: 06/12/24 06:37 Lab File ID: 140-36689-a-7-c.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.79	Incomplete Integration	P0IK	06/12/24 15:34
PCB-8	16.83	Missed Peak	P0IK	06/12/24 15:35
PCB-15L	20.04	Incomplete Integration	P0IK	06/12/24 15:34
PCB-54L	20.33	Baseline	P0IK	06/12/24 15:37
PCB-52	24.72	Baseline	P0IK	06/12/24 15:38
PCB-44	25.73	Baseline	P0IK	06/12/24 15:38
PCB-101	31.51	Baseline	P0IK	06/12/24 15:42
PCB-77	34.12	Incomplete Integration	P0IK	06/12/24 15:39
PCB-114	36.96	Incomplete Integration	P0IK	06/12/24 15:43
PCB-138	39.53	Incomplete Integration	P0IK	06/12/24 15:44

Lab Sample ID: 140-36689-8 Client Sample ID: M23-NO.3 BOILER-RUN FB COMBINED

Date Analyzed: 06/12/24 07:39 Lab File ID: 140-36689-a-8-c.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.79	Baseline	P0IK	06/12/24 16:53
PCB-8	16.83	Baseline	P0IK	06/12/24 16:54
PCB-15L	20.04	Baseline	P0IK	06/12/24 16:53
PCB-54L	20.33	Baseline	P0IK	06/12/24 17:03
PCB-28	22.92	Baseline	P0IK	06/12/24 17:03
PCB-52	24.70	Baseline	P0IK	06/12/24 17:04
PCB-44	25.73	Baseline	P0IK	06/12/24 17:02
PCB-118	36.42	Incomplete Integration	P0IK	06/12/24 17:08
PCB-138	39.54	Incomplete Integration	P0IK	06/12/24 17:09

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87571

Lab Sample ID: WDMCCV 140-87571/1 Client Sample ID: _____

Date Analyzed: 06/12/24 11:22 Lab File ID: d2240612c1a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	22.99	Incomplete Integration	P0IK	06/12/24 12:40
PCB-21/33	22.99	Incomplete Integration	P0IK	06/12/24 12:40
PCB-33	22.99	Incomplete Integration	P0IK	06/12/24 12:40
PCB-45	22.99	Incomplete Integration	P0IK	06/12/24 12:43
PCB-45/51	22.99	Incomplete Integration	P0IK	06/12/24 12:43
PCB-51	22.99	Incomplete Integration	P0IK	06/12/24 12:43
PCB-43	24.80	Incomplete Integration	P0IK	06/12/24 12:44
PCB-43/73	24.80	Incomplete Integration	P0IK	06/12/24 12:44
PCB-73	24.80	Incomplete Integration	P0IK	06/12/24 12:44
PCB-40	26.66	Incomplete Integration	P0IK	06/12/24 12:44
PCB-40/41/71	26.66	Incomplete Integration	P0IK	06/12/24 12:44
PCB-41	26.66	Incomplete Integration	P0IK	06/12/24 12:44
PCB-71	26.66	Incomplete Integration	P0IK	06/12/24 12:44
PCB-102	28.92	Incomplete Integration	P0IK	06/12/24 12:45
PCB-98	28.92	Incomplete Integration	P0IK	06/12/24 12:45
PCB-98/102	28.92	Incomplete Integration	P0IK	06/12/24 12:45
PCB-109	32.54	Incomplete Integration	P0IK	06/12/24 12:45
PCB-119	32.54	Incomplete Integration	P0IK	06/12/24 12:45
PCB-125	32.54	Incomplete Integration	P0IK	06/12/24 12:45
PCB-86	32.54	Incomplete Integration	P0IK	06/12/24 12:45
PCB-86/87/97/109/119/125	32.54	Incomplete Integration	P0IK	06/12/24 12:45
PCB-87	32.54	Incomplete Integration	P0IK	06/12/24 12:45
PCB-97	32.54	Incomplete Integration	P0IK	06/12/24 12:45
PCB-135	34.35	Incomplete Integration	P0IK	06/12/24 12:46
PCB-135/151	34.35	Incomplete Integration	P0IK	06/12/24 12:46
PCB-151	34.35	Incomplete Integration	P0IK	06/12/24 12:46
PCB-129	39.56	Incomplete Integration	P0IK	06/12/24 12:46
PCB-129/138/160/163	39.56	Incomplete Integration	P0IK	06/12/24 12:46
PCB-138	39.56	Incomplete Integration	P0IK	06/12/24 12:46
PCB-160	39.56	Incomplete Integration	P0IK	06/12/24 12:46

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Instrument ID: D2D Analysis Batch Number: 87571
 Lab Sample ID: WDMCCV 140-87571/1 Client Sample ID: _____
 Date Analyzed: 06/12/24 11:22 Lab File ID: d2240612c1a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-163	39.56	Incomplete Integration	P0IK	06/12/24 12:46
PCB-183	41.52	Incomplete Integration	P0IK	06/12/24 12:47
PCB-183/185	41.52	Incomplete Integration	P0IK	06/12/24 12:47
PCB-185	41.52	Incomplete Integration	P0IK	06/12/24 12:47

Lab Sample ID: 140-36689-14 Client Sample ID: M23 MEDIA CHECK A-2171 FILTER, A-2170 XAD
 Date Analyzed: 06/12/24 14:09 Lab File ID: 140-36689-a-14-c.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8	16.72	Incomplete Integration	P0IK	06/12/24 17:53
PCB-138	39.55	Incomplete Integration	P0IK	06/12/24 17:56
PCB-126	40.72	Incomplete Integration	P0IK	06/12/24 17:55

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Instrument ID: D3PAH Analysis Batch Number: 87843
 Lab Sample ID: IC 140-87843/1 Client Sample ID: _____
 Date Analyzed: 06/19/24 16:34 Lab File ID: d3240619ic1.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz (a,h) anthracene	58.09	Incomplete Integration	F9EE	06/19/24 18:15
13C12-Benzo (ghi) perylene	58.47	Incomplete Integration	F9EE	06/19/24 18:14
Benzo [g,h,i] perylene	58.49	Incomplete Integration	F9EE	06/19/24 18:14

Lab Sample ID: IC 140-87843/2 Client Sample ID: _____
 Date Analyzed: 06/19/24 17:38 Lab File ID: d3240619ic2.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Indeno (1,2,3-cd) pyrene	58.03	Incomplete Integration	F9EE	06/19/24 18:48
13C6-Dibenz (a,h) anthracene	58.11	Incomplete Integration	F9EE	06/19/24 18:49
13C12-Benzo (ghi) perylene	58.50	Incomplete Integration	F9EE	06/19/24 18:49
Benzo [g,h,i] perylene	58.51	Incomplete Integration	F9EE	06/19/24 18:49

Lab Sample ID: IC 140-87843/3 Client Sample ID: _____
 Date Analyzed: 06/19/24 18:42 Lab File ID: d3240619ic3.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz (a,h) anthracene	58.11	Incomplete Integration	F9EE	06/20/24 09:34
Dibenz (a,h) anthracene	58.11	Incomplete Integration	F9EE	06/20/24 09:34
13C12-Benzo (ghi) perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:35
Benzo [g,h,i] perylene	58.51	Incomplete Integration	F9EE	06/20/24 09:35

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D3PAH Analysis Batch Number: 87843

Lab Sample ID: IC 140-87843/4 Client Sample ID: _____

Date Analyzed: 06/19/24 19:47 Lab File ID: d3240619ic4.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Indeno(1,2,3-cd)pyrene	58.01	Incomplete Integration	F9EE	06/20/24 09:35
13C6-Dibenz(a,h)anthracene	58.09	Incomplete Integration	F9EE	06/20/24 09:35
Dibenz(a,h)anthracene	58.09	Incomplete Integration	F9EE	06/20/24 09:35
13C12-Benzo(ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:35
Benzo[g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:36

Lab Sample ID: IC 140-87843/5 Client Sample ID: _____

Date Analyzed: 06/19/24 20:51 Lab File ID: d3240619ic5.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz(a,h)anthracene	58.09	Incomplete Integration	F9EE	06/20/24 09:36
Dibenz(a,h)anthracene	58.09	Incomplete Integration	F9EE	06/20/24 09:36
13C12-Benzo(ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:36
Benzo[g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:36

Lab Sample ID: IC 140-87843/6 Client Sample ID: _____

Date Analyzed: 06/19/24 21:56 Lab File ID: d3240619ic6.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz(a,h)anthracene	58.08	Incomplete Integration	F9EE	06/20/24 09:37
Dibenz(a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:37
13C12-Benzo(ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:37
Benzo[g,h,i]perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:37

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D3PAH Analysis Batch Number: 87843

Lab Sample ID: IC 140-87843/7 Client Sample ID: _____

Date Analyzed: 06/19/24 23:00 Lab File ID: d3240619ic7.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Indeno (1,2,3-cd)pyrene	58.02	Incomplete Integration	F9EE	06/20/24 09:37
13C6-Dibenz (a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:38
Dibenz (a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:38
13C12-Benzo (ghi)perylene	58.49	Incomplete Integration	F9EE	06/20/24 09:38
Benzo [g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:38

Lab Sample ID: IC 140-87843/8 Client Sample ID: _____

Date Analyzed: 06/20/24 00:04 Lab File ID: d3240619ic8.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz (a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:38
Dibenz (a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:38
13C12-Benzo (ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:39
Benzo [g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:39

Lab Sample ID: IC 140-87843/9 Client Sample ID: _____

Date Analyzed: 06/20/24 01:09 Lab File ID: d3240619ic9.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno [1,2,3-cd]pyrene	58.01	Incomplete Integration	F9EE	06/20/24 09:39
13C6-Dibenz (a,h)anthracene	58.07	Incomplete Integration	F9EE	06/20/24 09:39
Dibenz (a,h)anthracene	58.07	Incomplete Integration	F9EE	06/20/24 09:39
13C12-Benzo (ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:39
Benzo [g,h,i]perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:39

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D3PAH Analysis Batch Number: 87843

Lab Sample ID: ICV 140-87843/10 Client Sample ID: _____

Date Analyzed: 06/20/24 02:46 Lab File ID: d3240619icv.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Naphthalene	11.67	Incomplete Integration	F9EE	06/20/24 09:48
Naphthalene	11.67	Incomplete Integration	F9EE	06/20/24 09:48

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Instrument ID: D3PAH Analysis Batch Number: 87921
 Lab Sample ID: CCV 140-87921/1 Client Sample ID: _____
 Date Analyzed: 06/21/24 00:53 Lab File ID: d3240621c1a.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo(e)pyrene-d12	55.49	Baseline	V4XA	06/21/24 02:05

Lab Sample ID: LCS 140-87205/15-B Client Sample ID: _____
 Date Analyzed: 06/21/24 02:08 Lab File ID: lcs140-8720515-b.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz(a,h)anthracene	58.10	Incomplete Integration	F9EE	06/21/24 15:14
Dibenz(a,h)anthracene	58.10	Incomplete Integration	F9EE	06/21/24 15:14
13C12-Benzo(ghi)perylene	58.49	Incomplete Integration	F9EE	06/21/24 15:14
Benzo[g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/21/24 15:14

Lab Sample ID: LCSD 140-87205/16-B Client Sample ID: _____
 Date Analyzed: 06/21/24 03:12 Lab File ID: lcsd140-8720516-b.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz(a,h)anthracene	58.08	Incomplete Integration	F9EE	06/21/24 15:15
Dibenz(a,h)anthracene	58.08	Incomplete Integration	F9EE	06/21/24 15:15
13C12-Benzo(ghi)perylene	58.46	Incomplete Integration	F9EE	06/21/24 15:15
Benzo[g,h,i]perylene	58.48	Incomplete Integration	F9EE	06/21/24 15:15

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D3PAH Analysis Batch Number: 87921

Lab Sample ID: MB 140-87205/17-B Client Sample ID: _____

Date Analyzed: 06/21/24 06:10 Lab File ID: mb140-8720517-b.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perylene	55.86	Incomplete Integration	F9EE	06/21/24 15:17
Indeno[1,2,3-cd]pyrene	58.00	Split Peak	V4XA	06/25/24 02:23
13C6-Dibenz (a,h) anthracene	58.06	Incomplete Integration	F9EE	06/21/24 15:17
Dibenz (a,h) anthracene	58.08	Incomplete Integration	F9EE	06/21/24 15:18
13C12-Benzo (ghi) perylene	58.47	Incomplete Integration	F9EE	06/21/24 15:18
Benzo[g,h,i]perylene	58.47	Baseline	V4XA	06/25/24 02:23

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Instrument ID: D3PAH Analysis Batch Number: 87947
 Lab Sample ID: CCV 140-87947/1 Client Sample ID: _____
 Date Analyzed: 06/21/24 16:12 Lab File ID: d3240621c1c_202406211609 GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz (a,h) anthracene	58.08	Incomplete Integration	F9EE	06/21/24 17:25
Dibenz (a,h) anthracene	58.08	Incomplete Integration	F9EE	06/21/24 17:25
Benzo[g,h,i]perylene	58.48	Incomplete Integration	F9EE	06/21/24 17:25

Lab Sample ID: 140-36689-1 Client Sample ID: M23-NO.3 BOILER-RUN 1 COMBINED
 Date Analyzed: 06/21/24 20:25 Lab File ID: 140-36689-a-1-d.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	46.05	Incomplete Integration	F9EE	06/24/24 10:13
Perylene	55.90	Incomplete Integration	F9EE	06/24/24 10:14
Indeno[1,2,3-cd]pyrene	57.99	Incomplete Integration	F9EE	06/24/24 10:14
13C6-Dibenz (a,h) anthracene	58.06	Incomplete Integration	F9EE	06/24/24 10:14
13C12-Benzo (ghi)perylene	58.45	Incomplete Integration	F9EE	06/24/24 10:14
Benzo[g,h,i]perylene	58.46	Incomplete Integration	F9EE	06/24/24 10:14

Lab Sample ID: 140-36689-2 Client Sample ID: M23-NO.3 BOILER-RUN 2 COMBINED
 Date Analyzed: 06/21/24 21:29 Lab File ID: 140-36689-a-2-d.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthylene	16.70	Incomplete Integration	F9EE	06/24/24 10:15
Indeno[1,2,3-cd]pyrene	57.98	Incomplete Integration	F9EE	06/24/24 10:16
13C6-Dibenz (a,h) anthracene	58.05	Incomplete Integration	F9EE	06/24/24 10:16
Dibenz (a,h) anthracene	58.05	Incomplete Integration	F9EE	06/24/24 10:16
13C12-Benzo (ghi)perylene	58.45	Incomplete Integration	F9EE	06/24/24 10:17
Benzo[g,h,i]perylene	58.45	Incomplete Integration	F9EE	06/24/24 10:17

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

SDG No.:

Instrument ID: D3PAH

Analysis Batch Number: 87947

Lab Sample ID: 140-36689-3

Client Sample ID: M23-NO.3 BOILER-RUN 3 COMBINED

Date Analyzed: 06/21/24 22:33

Lab File ID: 140-36689-a-3-d.d

GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Anthracene		Unspecified		
Benzo[a]pyrene	55.70	Incomplete Integration	F9EE	06/24/24 15:04
Perylene	55.92	Incomplete Integration	F9EE	06/24/24 15:03
Indeno[1,2,3-cd]pyrene	58.01	Incomplete Integration	F9EE	06/24/24 15:04
13C6-Dibenz (a,h) anthracene	58.07	Incomplete Integration	F9EE	06/24/24 15:05
Dibenz (a,h) anthracene	58.07	Incomplete Integration	F9EE	06/24/24 15:03
13C12-Benzo (ghi) perylene	58.48	Incomplete Integration	F9EE	06/24/24 15:05
Benzo[g,h,i]perylene	58.48	Incomplete Integration	F9EE	06/24/24 15:05

Lab Sample ID: 140-36689-4

Client Sample ID: M23-NO.3 BOILER-RUN 4 COMBINED

Date Analyzed: 06/21/24 23:38

Lab File ID: 140-36689-a-4-d.d

GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perylene	55.89	Incomplete Integration	F9EE	06/24/24 15:07
Indeno[1,2,3-cd]pyrene	58.03	Incomplete Integration	F9EE	06/24/24 15:07
13C6-Dibenz (a,h) anthracene	58.09	Incomplete Integration	F9EE	06/24/24 15:07
Dibenz (a,h) anthracene	58.09	Incomplete Integration	F9EE	06/24/24 15:05
13C12-Benzo (ghi) perylene	58.48	Incomplete Integration	F9EE	06/24/24 15:07
Benzo[g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/24/24 15:07

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

SDG No.:

Instrument ID: D3PAH

Analysis Batch Number: 88048

Lab Sample ID: CCV 140-88048/1

Client Sample ID:

Date Analyzed: 06/24/24 22:40

Lab File ID: d3240624c1c.d

GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Benzo(b) fluoranthene	54.61	Split Peak	V4XA	06/24/24 23:46
Benzo[b] fluoranthene	54.61	Split Peak	V4XA	06/24/24 23:47
Benzo(e) pyrene-d12	55.45	Split Peak	V4XA	06/24/24 23:47
13C4-Benzo(e) pyrene	55.54	Split Peak	V4XA	06/24/24 23:50
Benzo[e] pyrene	55.54	Split Peak	V4XA	06/24/24 23:50
13C4-Benzo(a) pyrene	55.67	Split Peak	V4XA	06/24/24 23:50
Benzo[a] pyrene	55.67	Split Peak	V4XA	06/24/24 23:50
Perylene-d12	55.84	Split Peak	V4XA	06/24/24 23:50
Perylene	55.91	Split Peak	V4XA	06/24/24 23:50
13C6-Dibenz(a,h) anthracene	58.06	Split Peak	V4XA	06/24/24 23:51
Dibenz(a,h) anthracene	58.06	Split Peak	V4XA	06/24/24 23:51

Lab Sample ID: 140-36689-6

Client Sample ID: M23-NO.3 BOILER-RUN 6 COMBINED

Date Analyzed: 06/25/24 02:53

Lab File ID: 140-36689-a-6-d.d

GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h) anthracene		Unspecified		
Perylene	55.85	Incomplete Integration	F9EE	06/25/24 11:29
13C6-Indeno(1,2,3-cd) pyrene	57.99	Incomplete Integration	F9EE	06/25/24 11:30
Indeno[1,2,3-cd] pyrene	58.01	Incomplete Integration	F9EE	06/25/24 11:30
13C6-Dibenz(a,h) anthracene	58.08	Incomplete Integration	F9EE	06/25/24 11:30
13C12-Benzo(ghi) perylene	58.47	Incomplete Integration	F9EE	06/25/24 11:30
Benzo[g,h,i] perylene	58.48	Incomplete Integration	F9EE	06/25/24 11:30

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D3PAH Analysis Batch Number: 88048

Lab Sample ID: 140-36689-7 Client Sample ID: M23-NO.3 BOILER-RUN 7 COMBINED

Date Analyzed: 06/25/24 03:58 Lab File ID: 140-36689-a-7-d.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perylene	55.86	Incomplete Integration	F9EE	06/25/24 11:32
13C6-Indeno (1,2,3-cd)pyrene	58.00	Incomplete Integration	F9EE	06/25/24 11:32
Indeno[1,2,3-cd]pyrene	58.00	Incomplete Integration	F9EE	06/25/24 11:33
13C6-Dibenz (a,h) anthracene	58.08	Incomplete Integration	F9EE	06/25/24 11:33
Dibenz (a,h) anthracene	58.08	Incomplete Integration	F9EE	06/25/24 11:33
13C12-Benzo (ghi) perylene	58.47	Incomplete Integration	F9EE	06/25/24 11:33
Benzo[g,h,i]perylene	58.47	Incomplete Integration	F9EE	06/25/24 11:33

Lab Sample ID: 140-36689-8 Client Sample ID: M23-NO.3 BOILER-RUN FB COMBINED

Date Analyzed: 06/25/24 05:02 Lab File ID: 140-36689-a-8-d.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[e]pyrene		Unspecified		
Benzo[g,h,i]perylene		Unspecified		
Dibenz (a,h) anthracene		Unspecified		
Perylene		Unspecified		
13C6-Naphthalene	11.45	Incomplete Integration	F9EE	06/25/24 11:34
Naphthalene	11.46	Incomplete Integration	F9EE	06/25/24 11:34
Acenaphthylene	16.74	Incomplete Integration	F9EE	06/25/24 11:34
13C6-Indeno (1,2,3-cd)pyrene	58.02	Incomplete Integration	F9EE	06/25/24 11:37
13C6-Dibenz (a,h) anthracene	58.09	Incomplete Integration	F9EE	06/25/24 11:37
13C12-Benzo (ghi) perylene	58.50	Incomplete Integration	F9EE	06/25/24 11:37

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D3PAH Analysis Batch Number: 88048

Lab Sample ID: 140-36689-14 Client Sample ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD

Date Analyzed: 06/25/24 06:06 Lab File ID: 140-36689-a-14-d.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Anthracene		Incomplete Integration	F9EE	06/25/24 11:37
13C6-Indeno (1,2,3-cd)pyrene	58.01	Incomplete Integration	F9EE	06/25/24 11:39
Indeno[1,2,3-cd]pyrene	58.01	Incomplete Integration	F9EE	06/25/24 11:39
13C6-Dibenz (a,h) anthracene	58.08	Incomplete Integration	F9EE	06/25/24 11:40
13C12-Benzo (ghi) perylene	58.48	Incomplete Integration	F9EE	06/25/24 11:40
Benzo[g,h,i]perylene	58.48	Incomplete Integration	F9EE	06/25/24 11:40

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Instrument ID: D3PAH Analysis Batch Number: 88079
 Lab Sample ID: CCV 140-88079/1 Client Sample ID: _____
 Date Analyzed: 06/25/24 11:07 Lab File ID: d3240625c1a.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Indeno(1,2,3-cd)pyrene	58.01	Incomplete Integration	F9EE	06/25/24 12:14
Indeno[1,2,3-cd]pyrene	58.01	Incomplete Integration	F9EE	06/25/24 12:14

Lab Sample ID: 140-36689-5 Client Sample ID: M23-NO.3 BOILER-RUN 5 COMBINED
 Date Analyzed: 06/25/24 18:54 Lab File ID: 140-36689-a-5-da.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perylene	55.89	Baseline	Q9DB	06/25/24 20:04
Indeno[1,2,3-cd]pyrene	58.01	Baseline	Q9DB	06/25/24 20:04
Dibenz(a,h)anthracene	58.08	Baseline	Q9DB	06/25/24 20:04

Method 23 Revised (PAHs)

Method 23 Revised (PAHs)

FORM II
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	C6N #	C62MN #	C6Acy #	C6Ace #	C6Fle #	C6Ph #	AN #	C6Fla #
M23-NO.3 BOILER-RUN 1 COMBINED	140-36689-1	53	59	82	76	82	85	101	85
M23-NO.3 BOILER-RUN 2 COMBINED	140-36689-2	39	48	72	67	76	97	114	87
M23-NO.3 BOILER-RUN 3 COMBINED	140-36689-3	43	47	69	66	77	91	105	80
M23-NO.3 BOILER-RUN 4 COMBINED	140-36689-4	50	56	78	76	89	97	118	87
M23-NO.3 BOILER-RUN 5 COMBINED	140-36689-5	50	51	76	67	79	69	75	83
M23-NO.3 BOILER-RUN 6 COMBINED	140-36689-6	46	58	77	74	90	94	101	78
M23-NO.3 BOILER-RUN 7 COMBINED	140-36689-7	50	58	73	73	87	92	108	80
M23-NO.3 BOILER-RUN FB COMBINED	140-36689-8	53	57	71	67	80	95	109	91
M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED	140-36689-14	76	83	98	93	98	94	108	89
	MB 140-87205/17-B	74	77	89	89	96	98	100	87
	LCS 140-87205/15-B	83	84	95	91	90	91	98	88
	LCSD 140-87205/16-B	70	76	92	87	88	85	88	86

QC LIMITS

C6N = 13C6-Naphthalene	20-130
C62MN = 13C6-2-Methylnaphthalene	20-130
C6Acy = 13C6-Acenaphthylene	20-130
C6Ace = 13C6-Acenaphthene	20-130
C6Fle = 13C6-Fluorene	20-130
C6Ph = 13C6-Phenanthrene	20-130
AN = 13C6-Anthracene	20-130
C6Fla = 13C6-Fluoranthrene	20-130

Column to be used to flag recovery values

FORM II
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	C3Pyr #	C6BaA #	C6Chr #	C6BbF #	C6BkF #	C4BeP #	C4BaP #	PRY #
M23-NO.3 BOILER-RUN 1 COMBINED	140-36689-1	81	76	75	84	84	76	86	89
M23-NO.3 BOILER-RUN 2 COMBINED	140-36689-2	79	83	79	92	86	76	85	72
M23-NO.3 BOILER-RUN 3 COMBINED	140-36689-3	71	71	71	87	89	77	84	77
M23-NO.3 BOILER-RUN 4 COMBINED	140-36689-4	77	79	77	90	86	75	81	72
M23-NO.3 BOILER-RUN 5 COMBINED	140-36689-5	71	73	73	85	90	76	83	74
M23-NO.3 BOILER-RUN 6 COMBINED	140-36689-6	66	58	62	81	82	68	71	64
M23-NO.3 BOILER-RUN 7 COMBINED	140-36689-7	71	67	66	89	91	77	82	78
M23-NO.3 BOILER-RUN FB COMBINED	140-36689-8	88	61	58	75	86	81	91	96
M23 MEDIA CHECK A-2171 FILTER, A-2170 XAD COMBINED	140-36689-14	87	65	66	82	86	81	87	95
	MB 140-87205/17-B	86	72	72	83	81	81	81	85
	LCS 140-87205/15-B	87	74	72	87	83	87	88	86
	LCSD 140-87205/16-B	85	81	80	91	85	89	88	84

QC LIMITS

C3Pyr = 13C3-Pyrene	20-130
C6BaA = 13C6-Benzo (a) anthracene	20-130
C6Chr = 13C6-Chrysene	20-130
C6BbF = 13C6-Benzo (b) fluoranthene	20-130
C6BkF = 13C6-Benzo (k) fluoranthene	20-130
C4BeP = 13C4-Benzo (e) pyrene	20-130
C4BaP = 13C4-Benzo (a) pyrene	20-130
PRY = Perylene-d12	20-130

Column to be used to flag recovery values

FORM II
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	IND #	DBA #	BghiP #
M23-NO.3 BOILER-RUN 1 COMBINED	140-36689-1	86	81	84
M23-NO.3 BOILER-RUN 2 COMBINED	140-36689-2	91	96	86
M23-NO.3 BOILER-RUN 3 COMBINED	140-36689-3	88	92	89
M23-NO.3 BOILER-RUN 4 COMBINED	140-36689-4	96	88	87
M23-NO.3 BOILER-RUN 5 COMBINED	140-36689-5	72	94	75
M23-NO.3 BOILER-RUN 6 COMBINED	140-36689-6	75	80	74
M23-NO.3 BOILER-RUN 7 COMBINED	140-36689-7	93	91	84
M23-NO.3 BOILER-RUN FB COMBINED	140-36689-8	82	88	88
M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED	140-36689-14	93	95	95
	MB 140-87205/17-B	89	90	88
	LCS 140-87205/15-B	127	119	109
	LCSD 140-87205/16-B	114	103	105

	<u>QC LIMITS</u>
IND = 13C6-Indeno (1,2,3-cd)pyrene	20-130
DBA = 13C6-Dibenz (a,h) anthracene	20-130
BghiP = 13C12-Benzo (ghi) perylene	20-130

Column to be used to flag recovery values

FORM III
HI-RES PAHS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: lcs140-8720515-b.d
 Lab ID: LCS 140-87205/15-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/Sample)	LCS CONCENTRATION (ng/Sample)	LCS % REC	QC LIMITS REC	#
Naphthalene	150	185.4	124	60-140	
2-Methylnaphthalene	150	167.9	112	60-140	
Acenaphthylene	150	119.0	79	60-140	
Acenaphthene	150	141.4	94	60-140	
Fluorene	150	147.0	98	60-140	
Phenanthrene	150	152.0	101	60-140	
Anthracene	150	116.5	78	60-140	
Fluoranthene	150	141.8	95	60-140	
Pyrene	150	143.4	96	60-140	
Benzo[a]anthracene	150	151.7	101	60-140	
Chrysene	150	153.2	102	60-140	
Benzo[b]fluoranthene	150	141.8	95	60-140	
Benzo[k]fluoranthene	150	142.5	95	60-140	
Benzo[e]pyrene	150	144.0	96	60-140	
Benzo[a]pyrene	150	121.4	81	60-140	
Perylene	150	133.1	89	60-140	
Indeno[1,2,3-cd]pyrene	150	139.2	93	60-140	
Dibenz(a,h)anthracene	150	139.3	93	60-140	
Benzo[g,h,i]perylene	150	134.7	90	60-140	
13C6-Naphthalene	150	124.1	83	20-130	
13C6-2-Methylnaphthalene	150	125.4	84	20-130	
13C6-Acenaphthylene	150	142.4	95	20-130	
13C6-Acenaphthene	150	136.8	91	20-130	
13C6-Fluorene	150	134.3	90	20-130	
13C6-Fluoranthrene	150	132.3	88	20-130	
13C3-Pyrene	150	131.0	87	20-130	
13C6-Benzo(a)anthracene	150	110.4	74	20-130	
13C6-Chrysene	150	108.2	72	20-130	
13C6-Benzo(b)fluoranthene	150	129.9	87	20-130	
13C6-Benzo(k)fluoranthene	150	124.1	83	20-130	
13C4-Benzo(e)pyrene	150	130.6	87	20-130	
13C4-Benzo(a)pyrene	150	132.1	88	20-130	
Perylene-d12	150	129.4	86	20-130	
13C6-Indeno(1,2,3-cd)pyrene	150	190.4	127	20-130	
13C6-Dibenz(a,h)anthracene	150	177.9	119	20-130	
13C12-Benzo(ghi)perylene	150	163.0	109	20-130	
13C6-Anthracene	150	147.2	98	20-130	
13C6-Phenanthrene	150	136.9	91	20-130	

Column to be used to flag recovery and RPD values

FORM III
HI-RES PAHS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Matrix: Air Level: Low Lab File ID: lcsd140-8720516-b.d
Lab ID: LCSD 140-87205/16-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/Sample)	LCSD CONCENTRATION (ng/Sample)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Naphthalene	150	192.8	129	4	25	60-140	
2-Methylnaphthalene	150	172.6	115	3	25	60-140	
Acenaphthylene	150	121.0	81	2	25	60-140	
Acenaphthene	150	147.9	99	4	25	60-140	
Fluorene	150	142.9	95	3	25	60-140	
Phenanthrene	150	152.3	102	0	25	60-140	
Anthracene	150	118.4	79	2	25	60-140	
Fluoranthene	150	139.6	93	2	25	60-140	
Pyrene	150	141.2	94	2	25	60-140	
Benzo[a]anthracene	150	148.8	99	2	25	60-140	
Chrysene	150	153.4	102	0	25	60-140	
Benzo[b]fluoranthene	150	139.7	93	1	25	60-140	
Benzo[k]fluoranthene	150	138.7	92	3	25	60-140	
Benzo[e]pyrene	150	144.7	96	1	25	60-140	
Benzo[a]pyrene	150	129.1	86	6	25	60-140	
Perylene	150	133.5	89	0	25	60-140	
Indeno[1,2,3-cd]pyrene	150	137.0	91	2	25	60-140	
Dibenz(a,h)anthracene	150	139.1	93	0	25	60-140	
Benzo[g,h,i]perylene	150	133.7	89	1	25	60-140	
13C6-Naphthalene	150	105.6	70			20-130	
13C6-2-Methylnaphthalene	150	114.2	76			20-130	
13C6-Acenaphthylene	150	137.5	92			20-130	
13C6-Acenaphthene	150	130.9	87			20-130	
13C6-Fluorene	150	132.6	88			20-130	
13C6-Fluoranthrene	150	129.6	86			20-130	
13C3-Pyrene	150	127.2	85			20-130	
13C6-Benzo(a)anthracene	150	121.0	81			20-130	
13C6-Chrysene	150	120.2	80			20-130	
13C6-Benzo(b)fluoranthene	150	135.8	91			20-130	
13C6-Benzo(k)fluoranthene	150	127.5	85			20-130	
13C4-Benzo(e)pyrene	150	133.4	89			20-130	
13C4-Benzo(a)pyrene	150	131.7	88			20-130	
Perylene-d12	150	126.7	84			20-130	
13C6-Indeno(1,2,3-cd)pyrene	150	170.5	114			20-130	
13C6-Dibenz(a,h)anthracene	150	153.9	103			20-130	
13C12-Benzo(ghi)perylene	150	157.8	105			20-130	
13C6-Anthracene	150	132.0	88			20-130	
13C6-Phenanthrene	150	127.5	85			20-130	

Column to be used to flag recovery and RPD values

FORM IV
HI-RES PAHS METHOD BLANK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Lab File ID: mb140-8720517-b.d Lab Sample ID: MB 140-87205/17-B
 Matrix: Air Date Extracted: 05/31/2024 12:03
 Instrument ID: D3PAH Date Analyzed: 06/21/2024 06:10
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-87205/15-B	lcs140-8720515-b.d	06/21/2024 02:08
	LCSD 140-87205/16-B	lcsd140-8720516-b.d	06/21/2024 03:12
M23-NO.3 BOILER-RUN 1 COMBINED	140-36689-1	140-36689-a-1-d.d	06/21/2024 20:25
M23-NO.3 BOILER-RUN 2 COMBINED	140-36689-2	140-36689-a-2-d.d	06/21/2024 21:29
M23-NO.3 BOILER-RUN 3 COMBINED	140-36689-3	140-36689-a-3-d.d	06/21/2024 22:33
M23-NO.3 BOILER-RUN 4 COMBINED	140-36689-4	140-36689-a-4-d.d	06/21/2024 23:38
M23-NO.3 BOILER-RUN 6 COMBINED	140-36689-6	140-36689-a-6-d.d	06/25/2024 02:53
M23-NO.3 BOILER-RUN 7 COMBINED	140-36689-7	140-36689-a-7-d.d	06/25/2024 03:58
M23-NO.3 BOILER-RUN FB COMBINED	140-36689-8	140-36689-a-8-d.d	06/25/2024 05:02
M23 MEDIA CHECK A-2171 FILTER, A-2170 XAD COMBINED	140-36689-14	140-36689-a-14-d.d	06/25/2024 06:06
M23-NO.3 BOILER-RUN 5 COMBINED	140-36689-5	140-36689-a-5-da.d	06/25/2024 18:54

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 1</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-1-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/07/2024 14:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/21/2024 20:25</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87947</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	393	B	75.0	75.0	1.46
91-57-6	2-Methylnaphthalene	340	B	75.0	75.0	0.698
208-96-8	Acenaphthylene	16.3	B	3.00	3.00	0.601
83-32-9	Acenaphthene	64.1	B	30.0	30.0	0.794
86-73-7	Fluorene	175	B	30.0	30.0	0.778
85-01-8	Phenanthrene	533	B	6.00	6.00	0.920
120-12-7	Anthracene	49.6	B	30.0	30.0	0.803
206-44-0	Fluoranthene	91.3	B	6.00	6.00	0.297
129-00-0	Pyrene	82.4	B	6.00	6.00	0.315
56-55-3	Benzo[a]anthracene	3.78	J B	6.00	6.00	0.211
218-01-9	Chrysene	15.0	B	6.00	6.00	0.206
205-99-2	Benzo[b]fluoranthene	6.13	J B	30.0	30.0	0.124
207-08-9	Benzo[k]fluoranthene	2.33	J B	6.00	6.00	0.118
192-97-2	Benzo[e]pyrene	21.4	B	6.00	6.00	0.108
50-32-8	Benzo[a]pyrene	5.16	B	3.00	3.00	0.104
198-55-0	Perylene	2.27	J B	3.00	3.00	0.0940
193-39-5	Indeno[1,2,3-cd]pyrene	11.5	B	3.00	3.00	0.124
53-70-3	Dibenz(a,h)anthracene	1.27	J B	6.00	6.00	0.0866
191-24-2	Benzo[g,h,i]perylene	73.2	B	6.00	6.00	0.0986

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 1</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-1-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/07/2024 14:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/21/2024 20:25</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87947</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	53		20-130
STL03357	13C6-2-Methylnaphthalene	59		20-130
189811-56-1	13C6-Acenaphthylene	82		20-130
189811-57-2	13C6-Acenaphthene	76		20-130
STL00616	13C6-Fluorene	82		20-130
1397194-60-3	13C6-Fluoranthrene	85		20-130
1397214-90-2	13C3-Pyrene	81		20-130
917378-11-1	13C6-Benzo (a) anthracene	76		20-130
1397177-72-8	13C6-Chrysene	75		20-130
STL03358	13C6-Benzo (b) fluoranthene	84		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	84		20-130
STL03382	13C4-Benzo (e) pyrene	76		20-130
STL03359	13C4-Benzo (a) pyrene	86		20-130
1520-96-3	Perylene-d12	89		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	86		20-130
STL03360	13C6-Dibenz (a,h) anthracene	81		20-130
350820-11-0	13C12-Benzo (ghi) perylene	84		20-130
189811-60-7	13C6-Anthracene	101		20-130
1189955-53-0	13C6-Phenanthrene	85		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Lims ID: 140-36689-A-1-D
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Sample Type: Client
Inject. Date: 21-Jun-2024 20:25:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033215-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 24-Jun-2024 10:17:21 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1661

First Level Reviewer: F9EE

Date: 24-Jun-2024 10:14:53

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:27	461007		3.3746	52.6	52.6	0.0240	0.0240	52.65	
Naphthalene	11:27	1558739		1.2893	262.3	262.3	0.9760	0.9760		
D 13C6-2-Methylnaphthalene	13:49	245363		1.6031	59.0	59.0	0.003501	0.003501	58.99	
2-Methylnaphthalene	13:49	711298		1.2786	226.7	226.7	0.4656	0.4656		
D 13C6-Acenaphthylene	16:42	352666		1.6520	82.3	82.3	0.0204	0.0204	82.27	
Acenaphthylene	16:43	49694		2.3661	10.9	10.9	0.4005	0.4005		
* Acenaphthene-d10	17:17	129737		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:24	193454		0.9792	76.1	76.1	0.0287	0.0287	76.14	
Acenaphthene	17:24	104965		1.2697	42.7	42.7	0.5294	0.5294		
D 13C6-Fluorene	19:41	190369		0.8898	82.5	82.5	0.0757	0.0757	82.45	
Fluorene	19:41	278463		1.2532	116.7	116.7	0.5187	0.5187		
D 13C6-Phenanthrene	25:04	326863		0.5724	84.8	84.8	0.0167	0.0167	84.82	
Phenanthrene	25:05	1281605		1.1044	355.0	355.0	0.6131	0.6131		
\$ Anthracin-d10	25:18	23648		0.4257	8.251	8.251	0.0131	0.0131	82.51	
D 13C6-Anthracene	25:25	309001		0.4523	101.5	101.5	0.0212	0.0212	101	
Anthracene	25:25	138854		1.3586	33.1	33.1	0.5356	0.5356		
D 13C6-Fluoranthrene	33:50	689689		1.1994	85.4	85.4	0.1510	0.1510	85.42	
Fluoranthene	33:51	483320		1.1513	60.9	60.9	0.1977	0.1977		
* Pyrene-d10	35:23	336608		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:31	733778		1.3512	80.7	80.7	0.0779	0.0779	80.67	
Pyrene	35:31	429554		1.0652	55.0	55.0	0.2100	0.2100		
\$ 13C6-Benzo(c)fluorene	39:14	227323		0.5136	65.7	65.7	0.0233	0.0233	98.62	
D 13C6-Benzo(a)anthracene	46:03	615451		1.5189	76.1	76.1	0.0584	0.0584	76.06	
Benzo[a]anthracene	46:04	15119		0.9739	2.523	2.523	0.1408	0.1408		M
D 13C6-Chrysene	46:20	651798		1.6287	75.1	75.1	0.0545	0.0545	75.12	
Chrysene	46:19	64089		0.9815	10.0	10.0	0.1375	0.1375		
D 13C6-Benzo(b)fluoranthene	54:36	655903		1.4621	84.2	84.2	0.0180	0.0180	84.21	
Benzo[b]fluoranthene	54:37	30139		1.1249	4.085	4.085	0.0827	0.0827		
\$ 13C12-Benzo(j)fluoranthene	54:38	421873		1.3558	58.4	58.4	0.1508	0.1508	87.61	
D 13C6-Benzo(k)fluoranthene	54:44	781409		1.7507	83.8	83.8	0.0150	0.0150	83.78	
Benzo[k]fluoranthene	54:44	13654		1.1271	1.550	1.550	0.0789	0.0789		
* Benzo(e)pyrene-d12	55:27	266374		5.7E+04	50.0	50.0				
Benzo[e]pyrene	55:33	94266		1.0013	14.3	14.3	0.0720	0.0720		
D 13C4-Benzo(e)pyrene	55:33	659542		1.6368	75.6	75.6	0.0619	0.0619	75.63	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:41	711678		1.5508	86.1	86.1	0.0653	0.0653	86.14	
Benzo[a]pyrene	55:41	27262		1.1130	3.442	3.442	0.0690	0.0690		
D Perylene-d12	55:51	563693		1.1917	88.8	88.8	0.1558	0.1558	88.79	
Perylene	55:55	12214		1.4307	1.515	1.515	0.0627	0.0627		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:59	468433		1.0218	86.0	86.0	0.0551	0.0551	86.05	
Indeno[1,2,3-cd]pyrene	58:00	40510		1.1249	7.687	7.687	0.0829	0.0829		M
D 13C6-Dibenz(a,h)anthracene	58:04	458092		1.0553	81.5	81.5	0.0278	0.0278	81.48	M
Dibenz(a,h)anthracene	58:04	4399		1.1314	0.8488	0.8488	0.0577	0.0577		
D 13C12-Benzo(ghi)perylene	58:27	573546		1.2749	84.4	84.4	0.0230	0.0230	84.45	M
Benzo[g,h,i]perylene	58:28	359241		1.2838	48.8	48.8	0.0658	0.0658		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Lims ID: 140-36689-A-1-D
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Sample Type: Client
Inject. Date: 21-Jun-2024 20:25:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033215-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 24-Jun-2024 10:17:21 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1661

First Level Reviewer: F9EE

Date: 24-Jun-2024 10:14:53

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:27	11:15	-5	0.662	461007	157353	29	72	5426		
Naphthalene											
128.0626	11:27	11:33	-6	1.000	1558739	526748	792	1980	665		
13C6-2-Methylnaphthalene											
148.0984	13:49	13:31	-3	0.799	245363	110031	2	5	55016		
2-Methylnaphthalene											
142.0783	13:49	13:52	-3	1.000	711298	306893	262	655	1171		
13C6-Acenaphthylene											
158.0828	16:42	16:20	-2	0.966	352666	121624	12	30	10135		
Acenaphthylene											
152.0626	16:43	16:43	-2	1.000	49694	14126	238	595	59		
Acenaphthene-d10											
164.1404	17:17	17:19	-2		129737	44541	43	107	1036		
13C6-Acenaphthene											
160.0984	17:24	17:00	-2	1.007	193454	62780	10	25	6278		
Acenaphthene											
154.0783	17:24	17:27	-2	1.001	104965	33212	169	422	197		
13C6-Fluorene											
172.0984	19:41	19:14	-2	1.140	190369	58770	24	60	2449		
Fluorene											
166.0783	19:41	19:44	-2	1.000	278463	79768	153	382	521		
13C6-Phenanthrene											
184.0984	25:04	25:06	-2	0.709	326863	76060	5	12	15212		
Phenanthrene											
178.0783	25:05	25:05	-2	1.000	1281605	291321	206	515	1414		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:18	25:18	-1	0.715	23648	5039	3	7	1680		
13C6-Anthracene											
184.0984	25:25	25:26	-1	0.718	309001	70780	5	12	14156		E
Anthracene											
178.0783	25:25	25:25	-1	1.000	138854	27066	206	515	131		
13C6-Fluoranthrene											
208.0984	33:50	33:52	-2	0.956	689689	133979	91	227	1472		
Fluoranthene											
202.0783	33:51	33:51	-1	1.000	483320	91230	122	305	748		
Pyrene-d10											
212.1404	35:23	35:25	-2		336608	62688	7	17	8955		
13C3-Pyrene											
205.0883	35:31	35:33	-2	1.004	733778	136343	53	132	2573		
Pyrene											
202.0783	35:31	35:30	-2	1.000	429554	79545	122	305	652		
13C6-Benzo(c)fluorene											
222.1134	39:14	39:31	-2	0.707	227323	41116	6	15	6853		
13C6-Benzo(a)anthracene											
234.1140	46:03	46:04	-2	1.301	615451	103548	57	142	1817		
Benzo[a]anthracene											
228.0939	46:04	46:04	-2	1.000	15119	2791	57	142	49		M
13C6-Chrysene											
234.1140	46:20	46:21	-1	1.310	651798	105257	57	142	1847		M
Chrysene											
228.0939	46:19	46:21	-3	1.000	64089	7405	57	142	130		
13C6-Benzo(b)fluoranthene											
258.1140	54:36	55:00	-2	0.985	655903	168814	17	42	9930		
Benzo[b]fluoranthene											
252.0939	54:37	54:38	-1	1.000	30139	6999	63	157	111		
13C12-Benzo(j)fluoranthene											
264.1336	54:38	55:02	-2	0.985	421873	98547	131	327	752		
13C6-Benzo(k)fluoranthene											
258.1140	54:44	55:07	-1	0.987	781409	176471	17	42	10381		
Benzo[k]fluoranthene											
252.0939	54:44	54:43	-1	1.000	13654	2371	63	157	38		
Benzo(e)pyrene-d12											
264.1692	55:27	55:30	-2		266374	79989	119	297	672		
Benzo[e]pyrene											
252.0939	55:33	55:55	-1	1.000	94266	30870	63	157	490		
13C4-Benzo(e)pyrene											
256.1073	55:33	55:56	-1	1.002	659542	217665	65	162	3349		
13C4-Benzo(a)pyrene											
256.1073	55:41	56:05	-2	1.004	711678	204401	65	162	3145		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:41	55:43	-2	1.000	27262	5656	63	157	90		
Perylene-d12											
264.1692	55:51	56:15	-2	1.007	563693	175086	119	297	1471		
Perylene											
252.0939	55:55	55:55	-2	1.001	12214	1341	63	157	21		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:59	58:24	-2	1.046	468433	144782	36	90	4022		
Indeno[1,2,3-cd]pyrene											
276.0939	58:00	57:59	-1	1.000	40510	11222	54	135	208		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:04	58:03	-1	1.047	458092	117916	19	47	6206		M
Dibenz(a,h)anthracene											
278.1096	58:04	58:03	-1	1.000	4399	928	31	77	30		
13C12-Benzo(ghi)perylene											
288.1342	58:27	58:28	-2	1.054	573546	159911	19	47	8416		M
Benzo[g,h,i]perylene											
276.0939	58:28	58:28	-1	1.000	359241	93995	54	135	1741		M

QC Flag Legend

Processing Flags

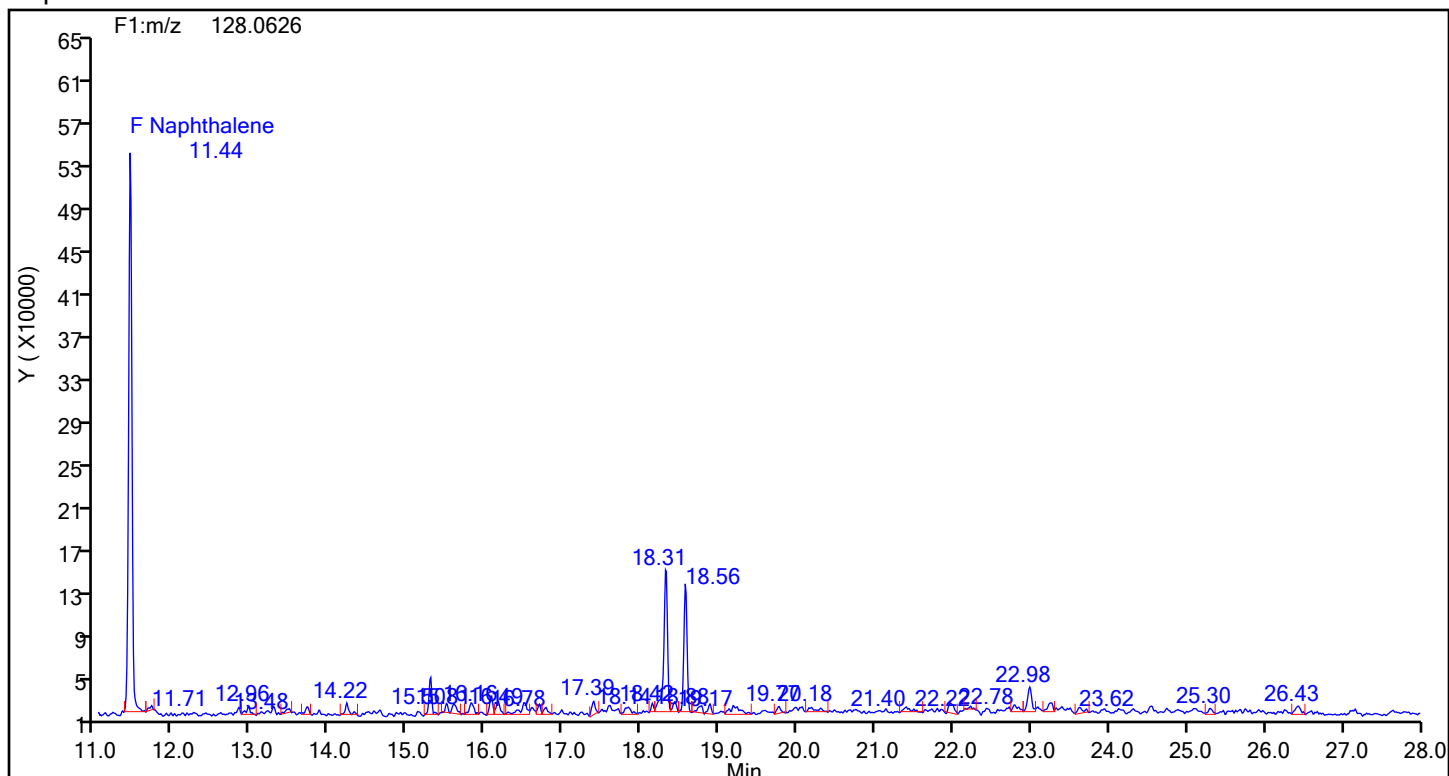
Review Flags

M - Manually Integrated

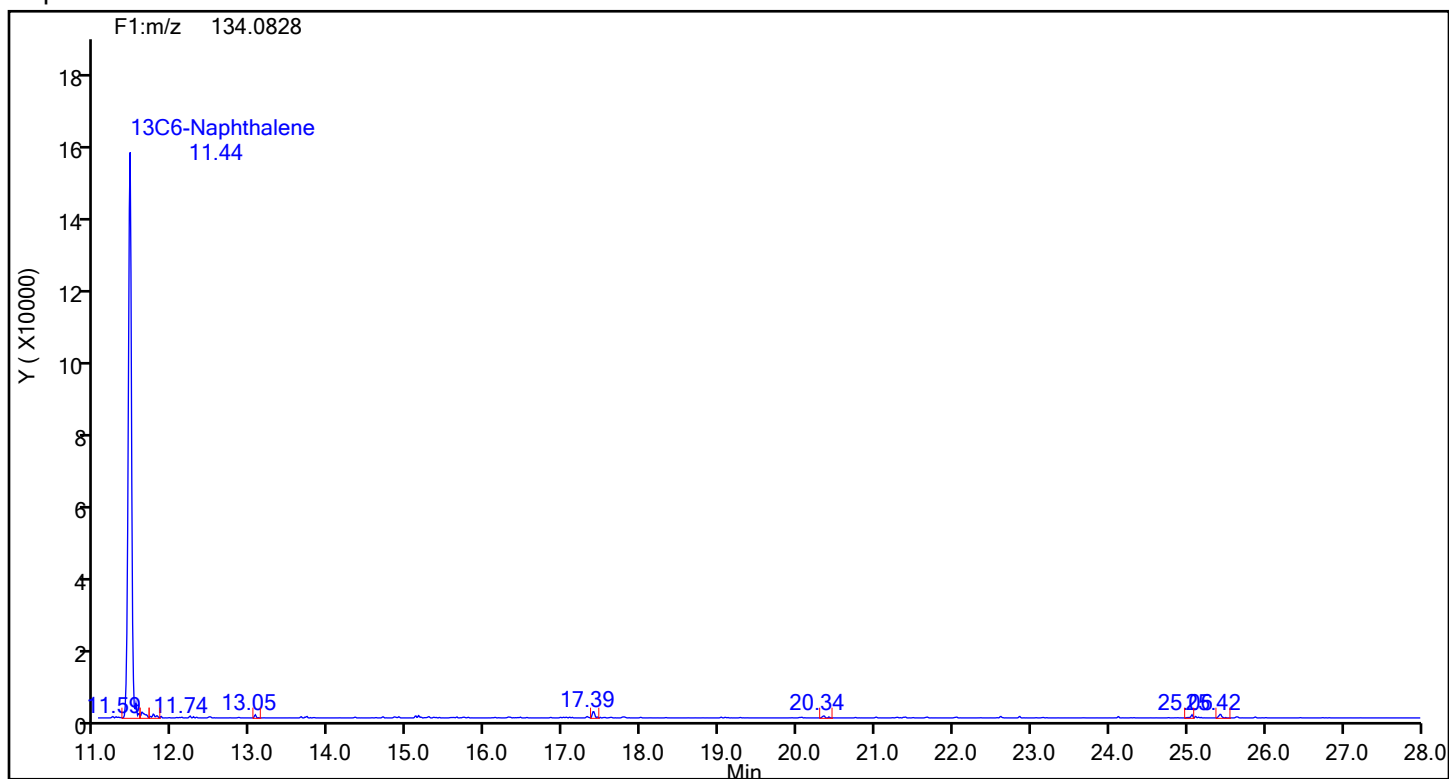
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



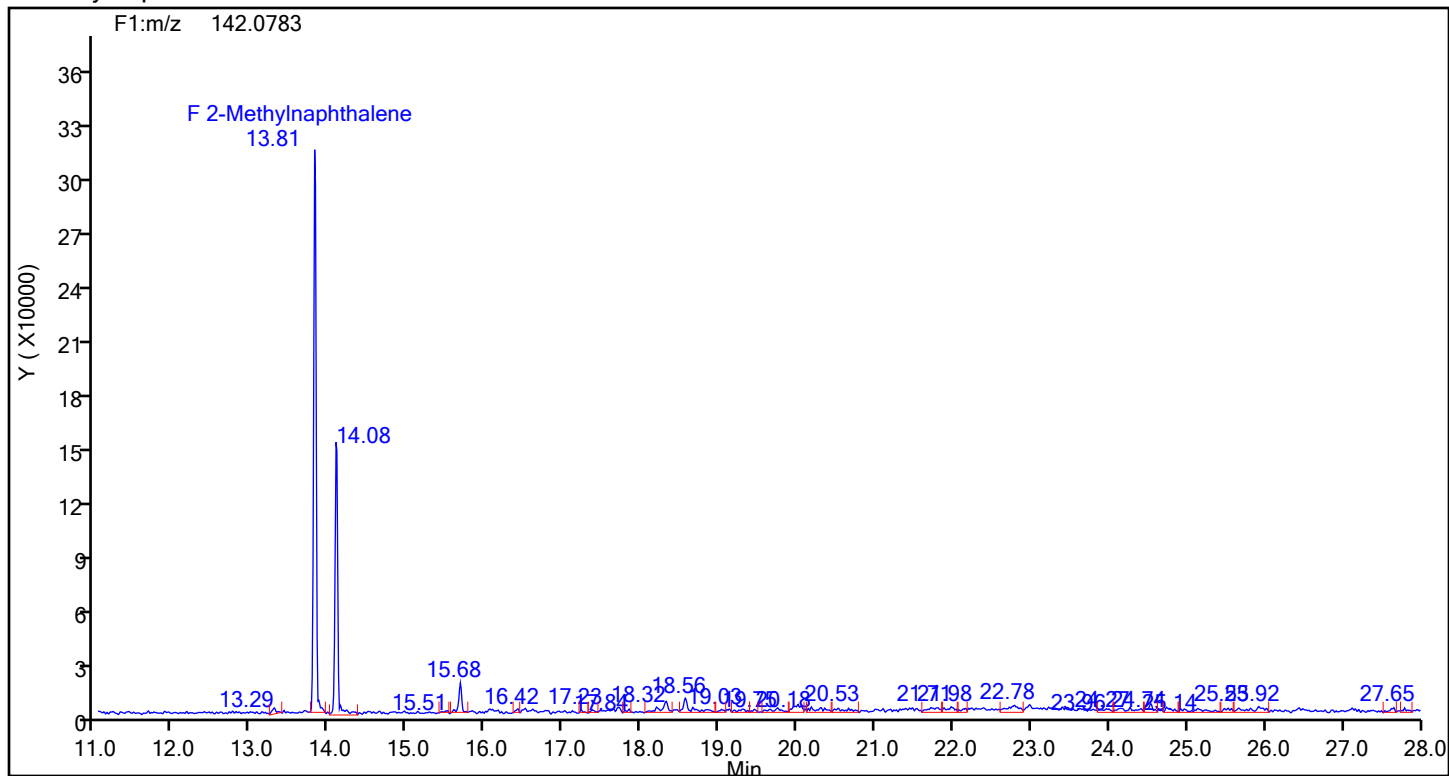
Naphthalene Standards



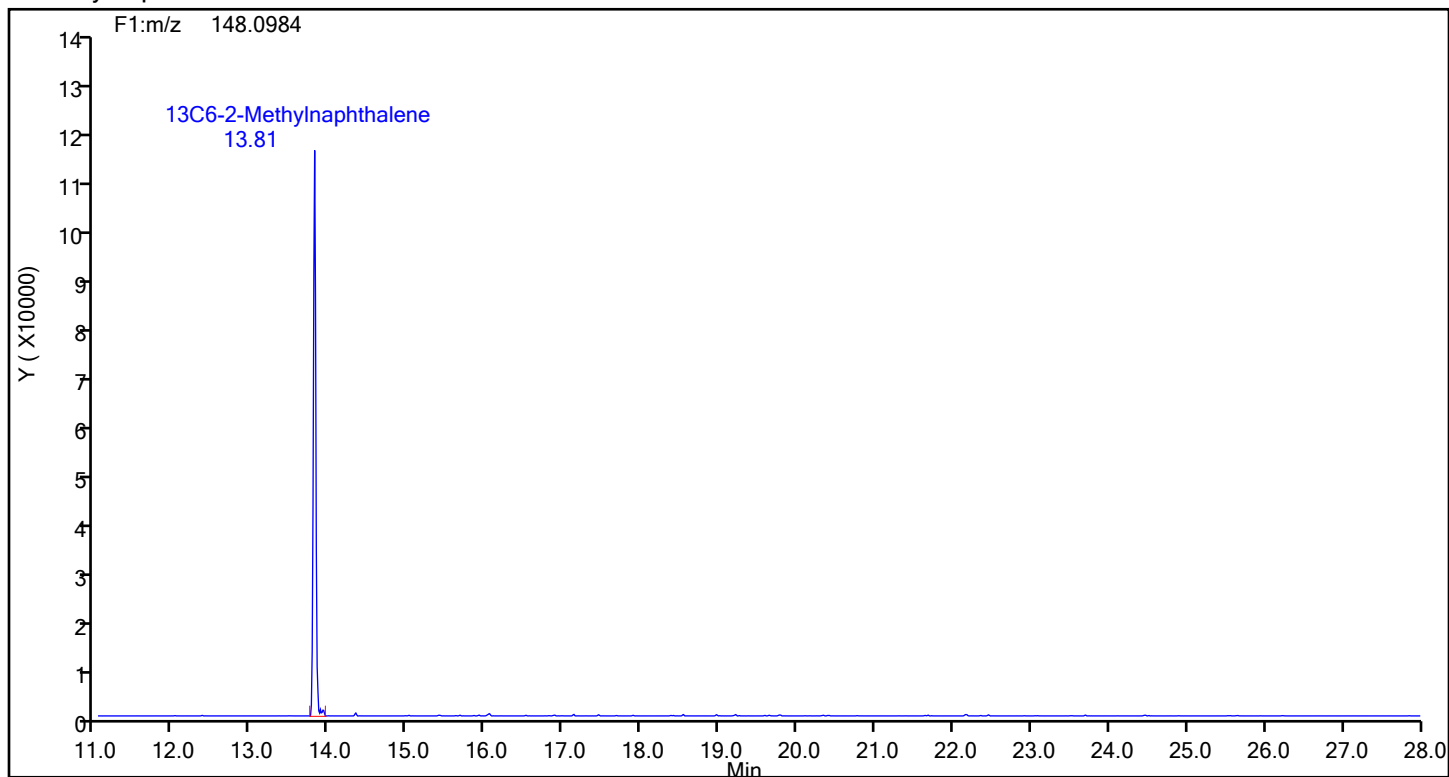
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



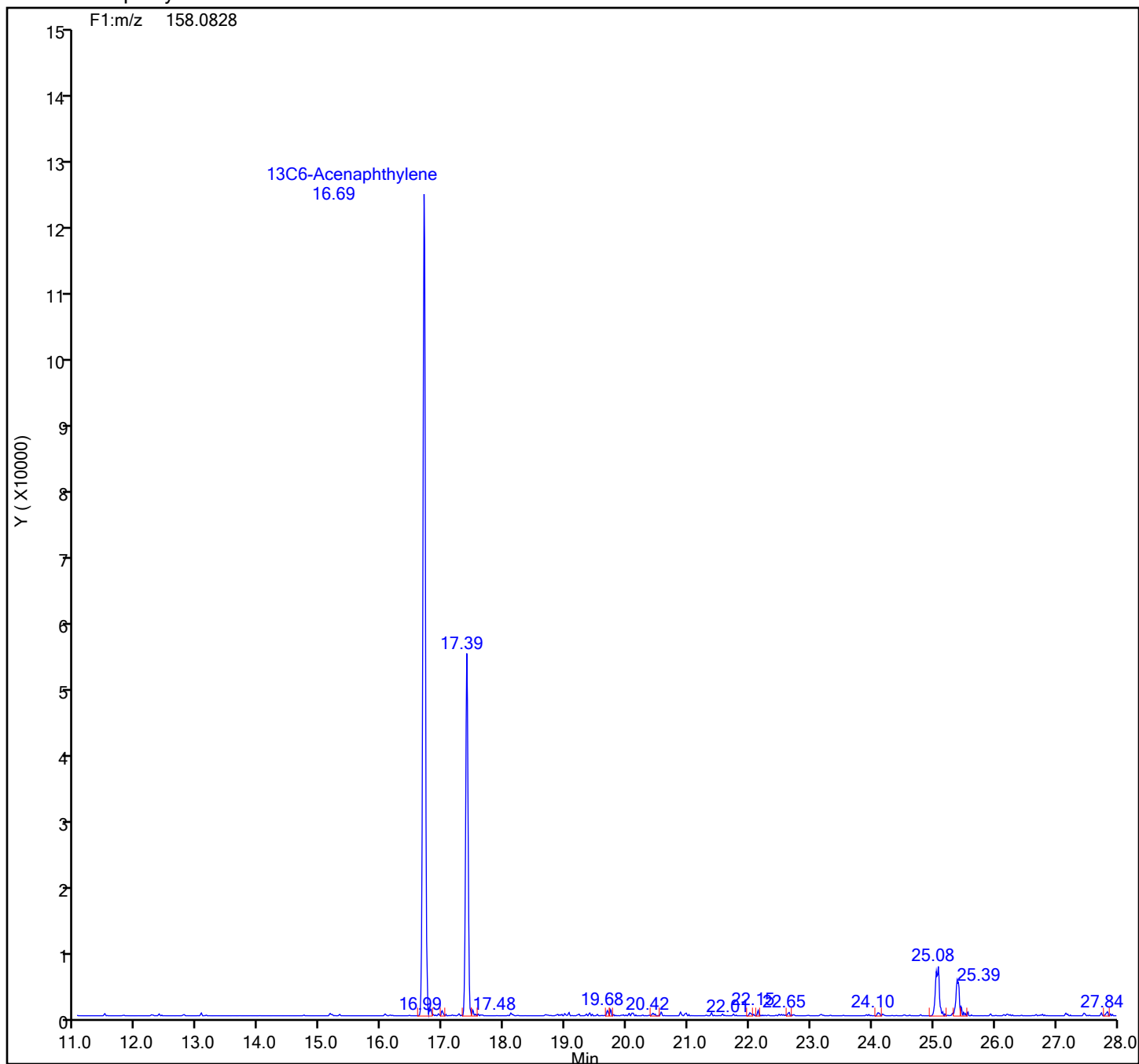
2-Methylnaphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

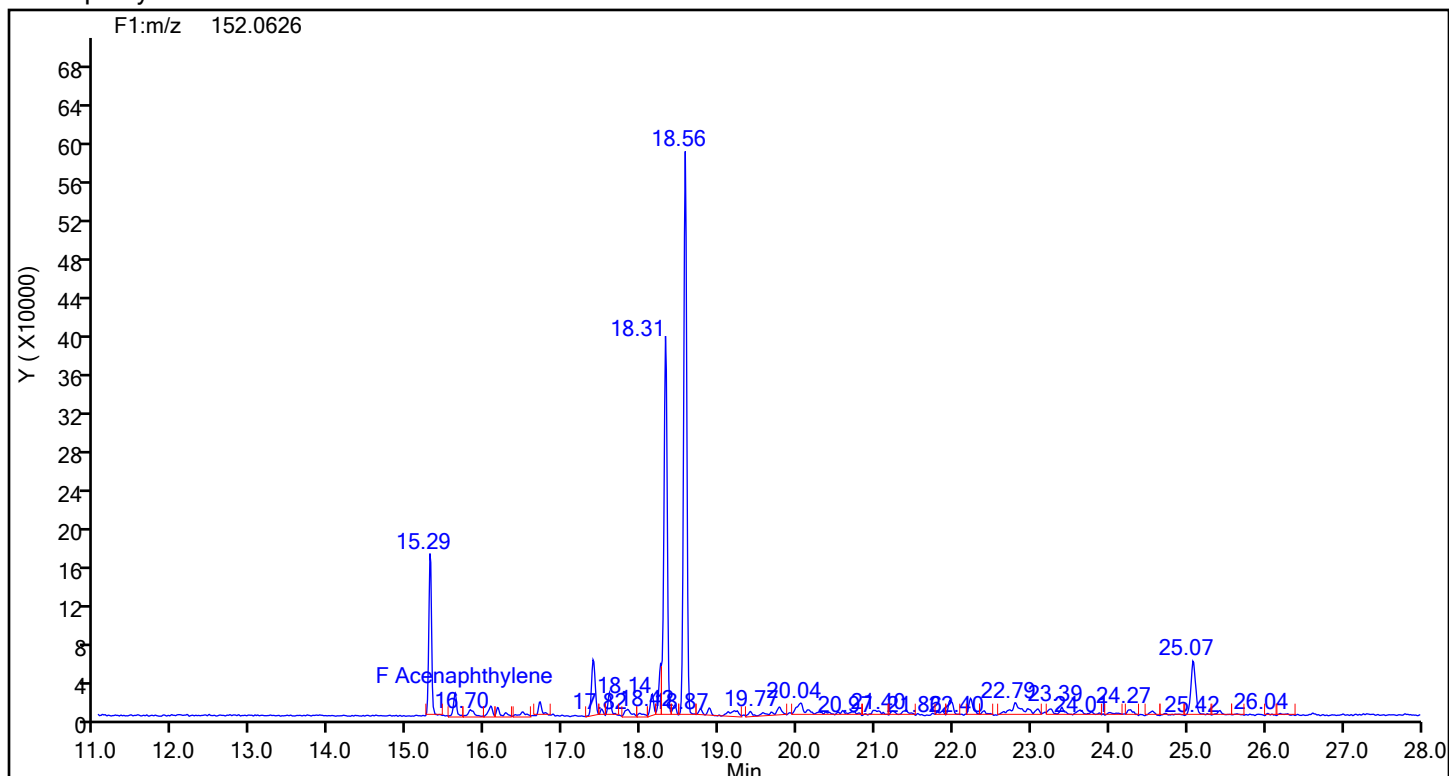
13C6-Acenaphthylene Standards



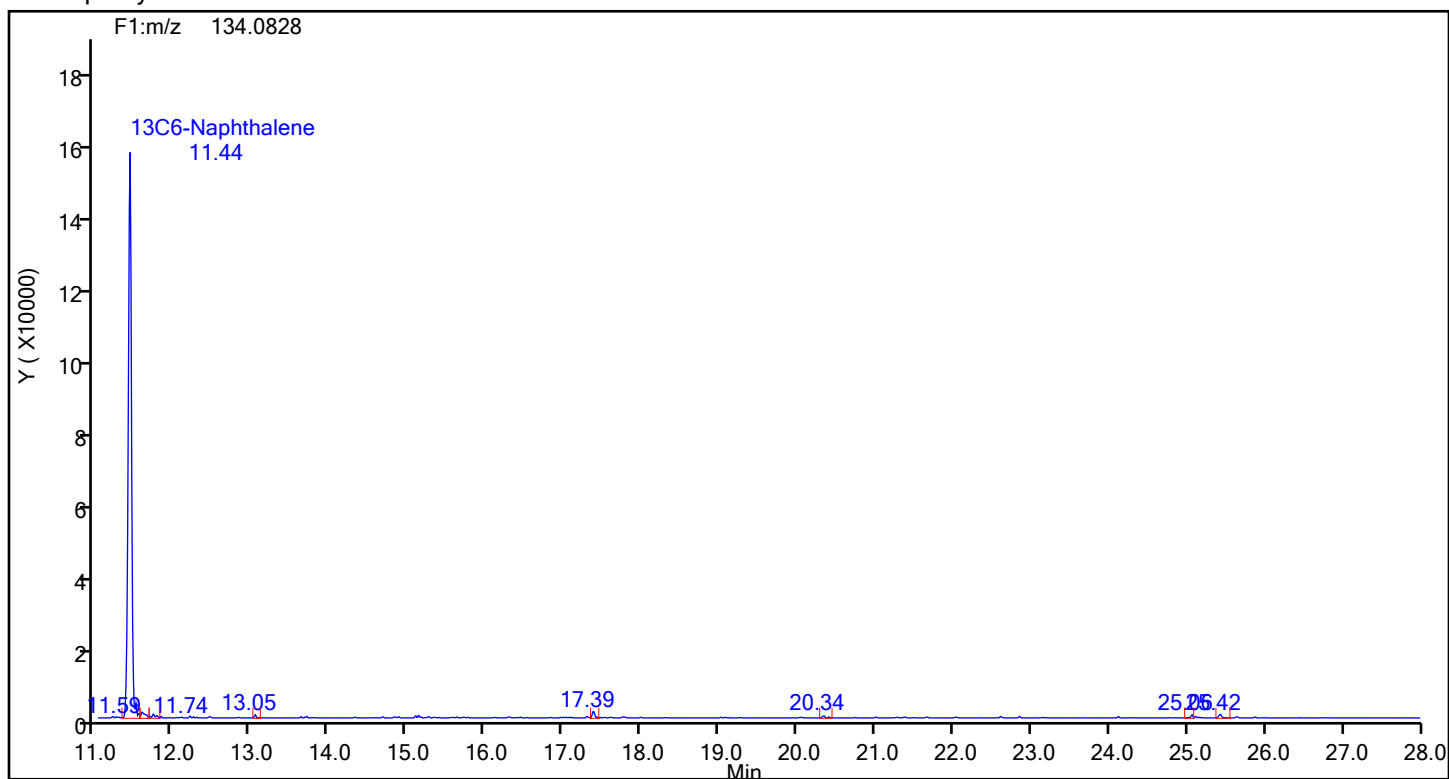
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



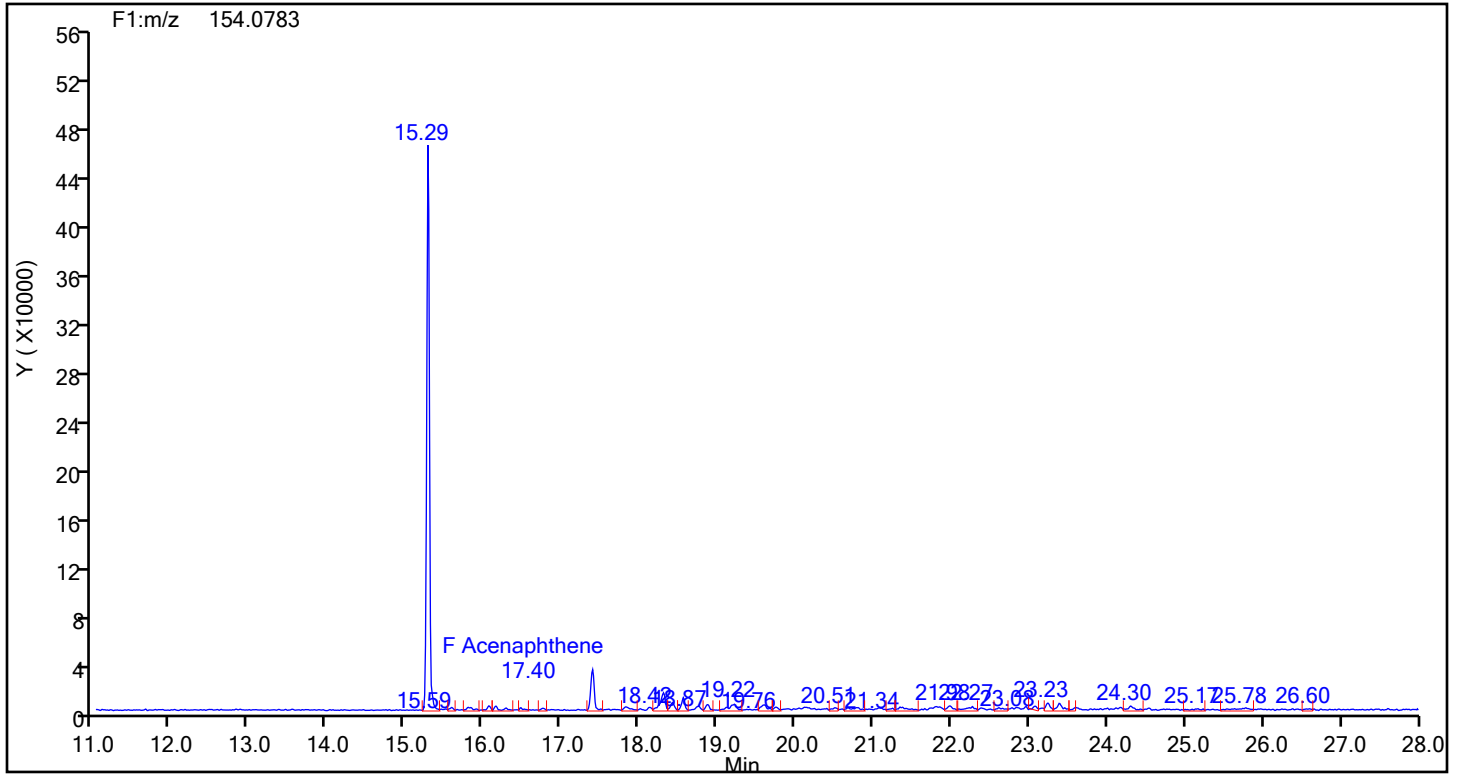
Acenaphthylene Standards



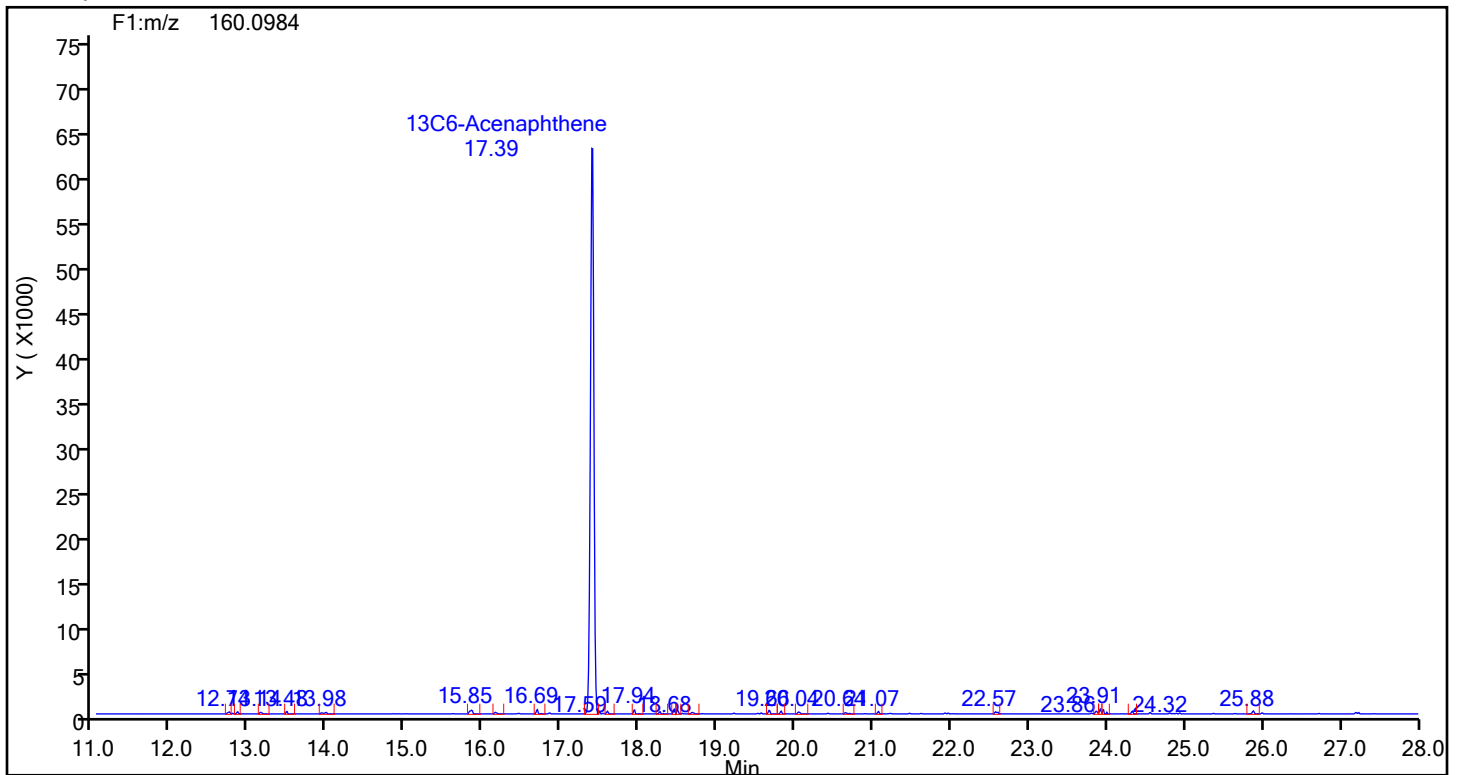
Eurofins Knoxville

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Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



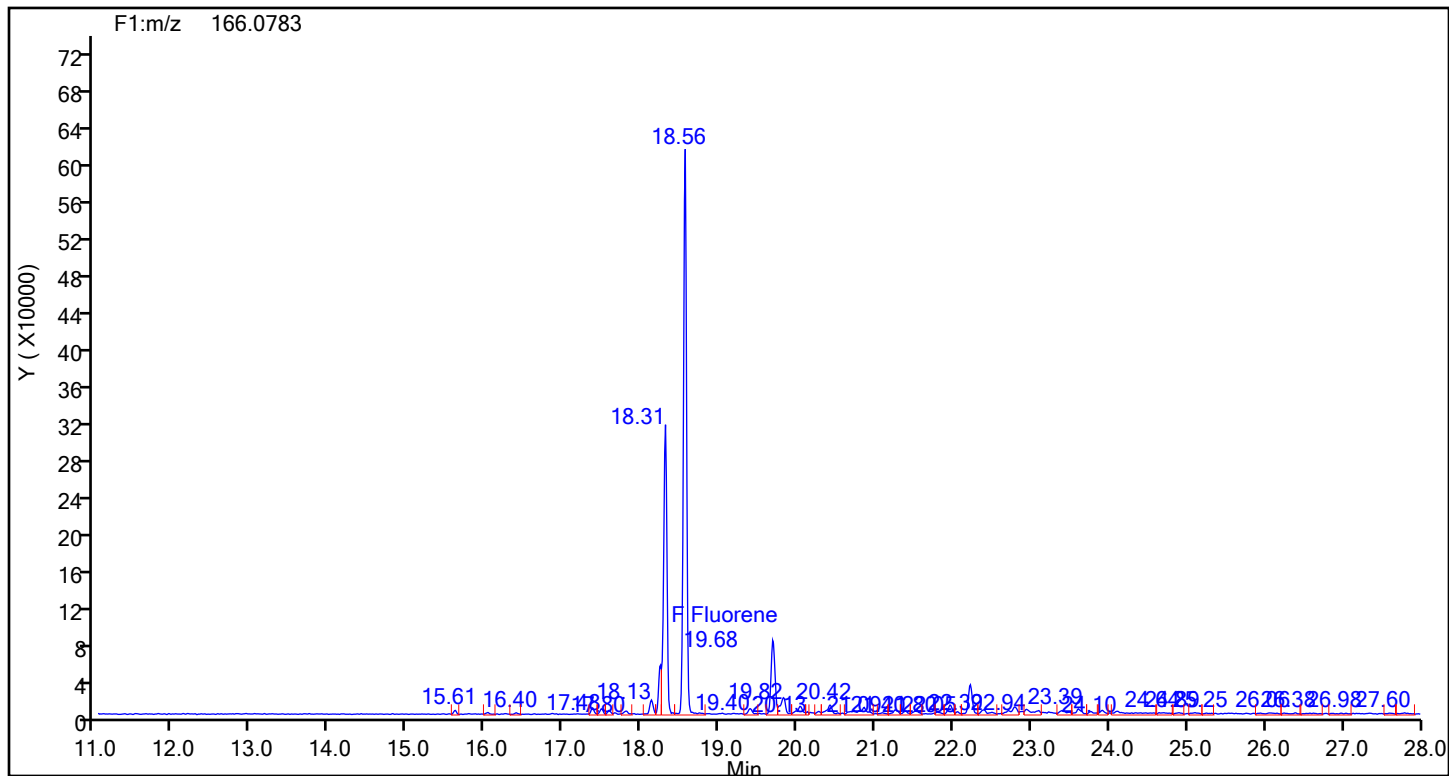
Acenaphthene Standards



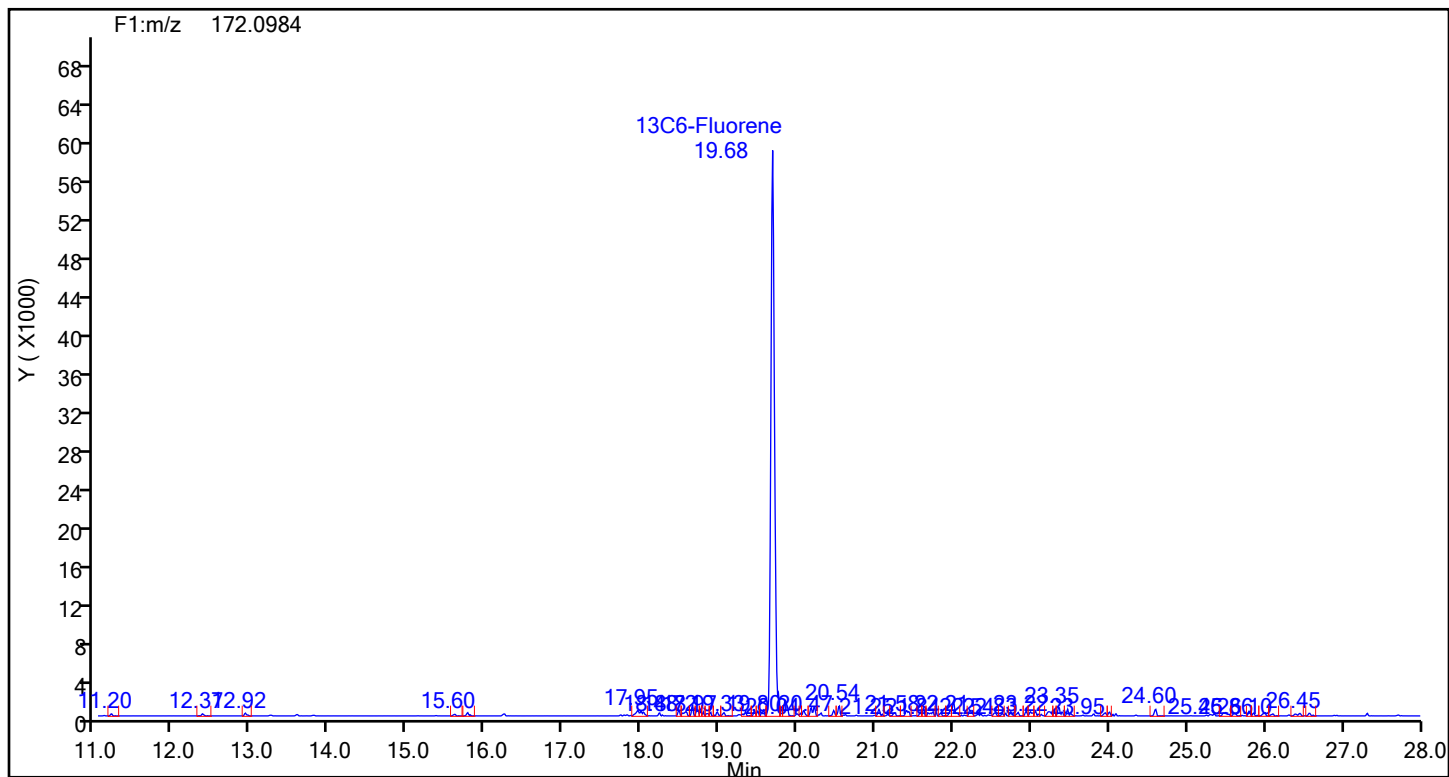
Eurofins Knoxville

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Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



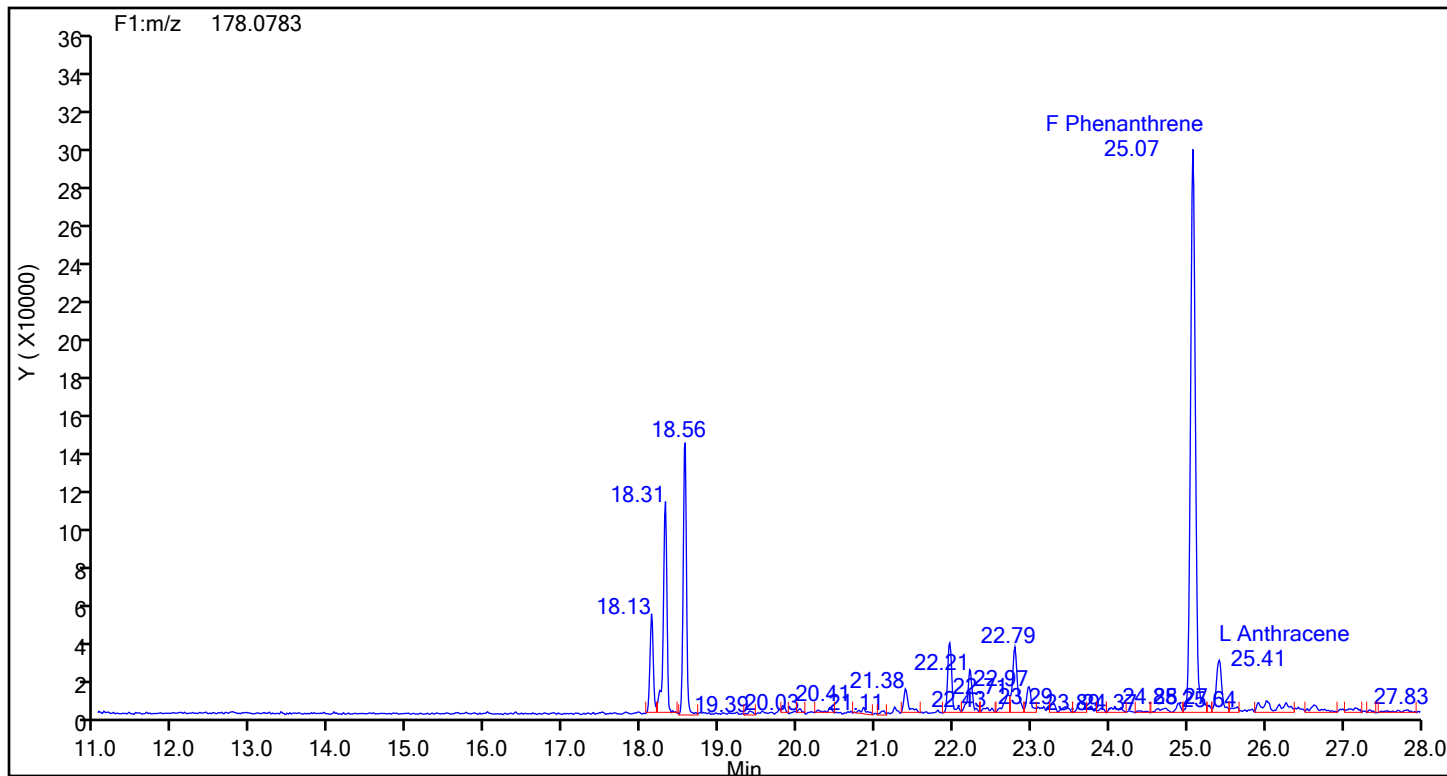
Fluorene Standards



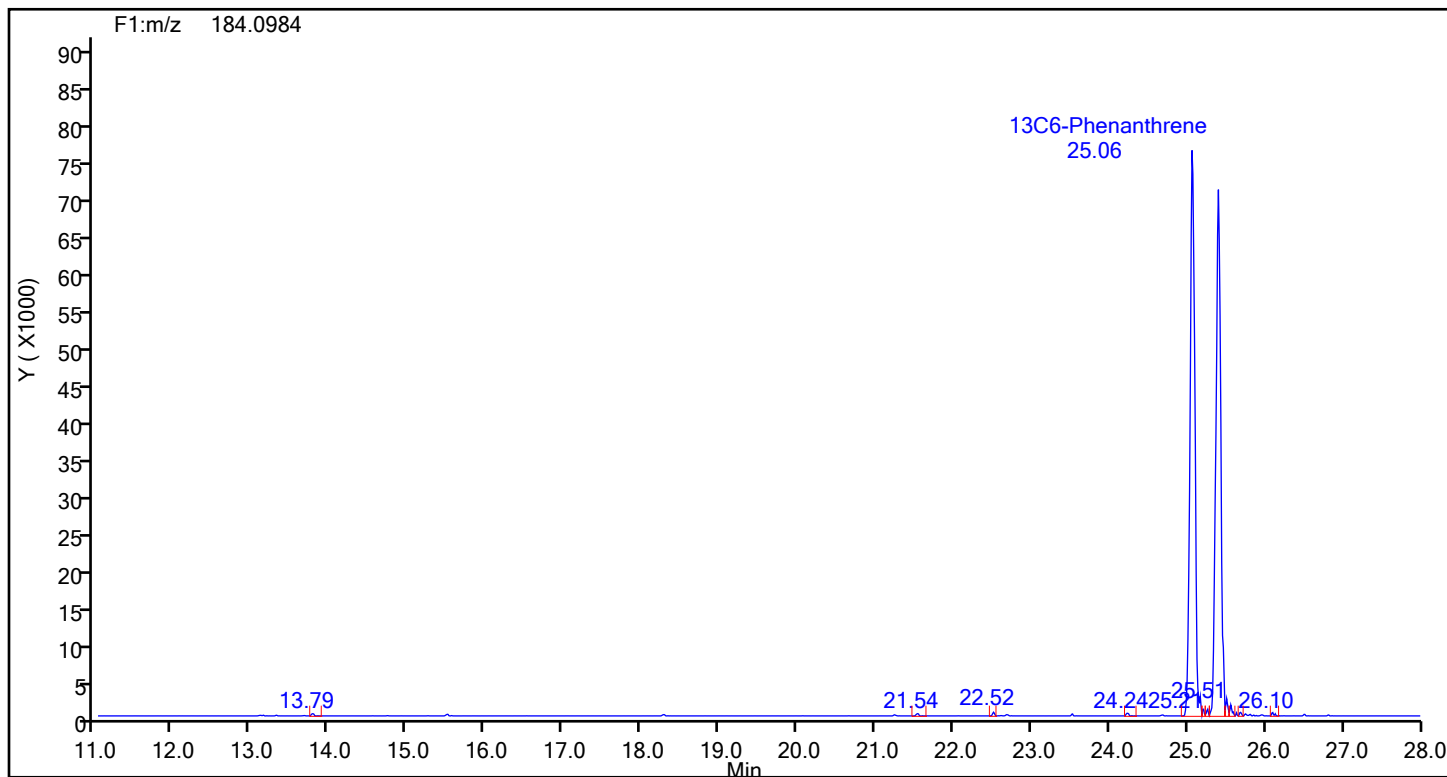
Eurofins Knoxville

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Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

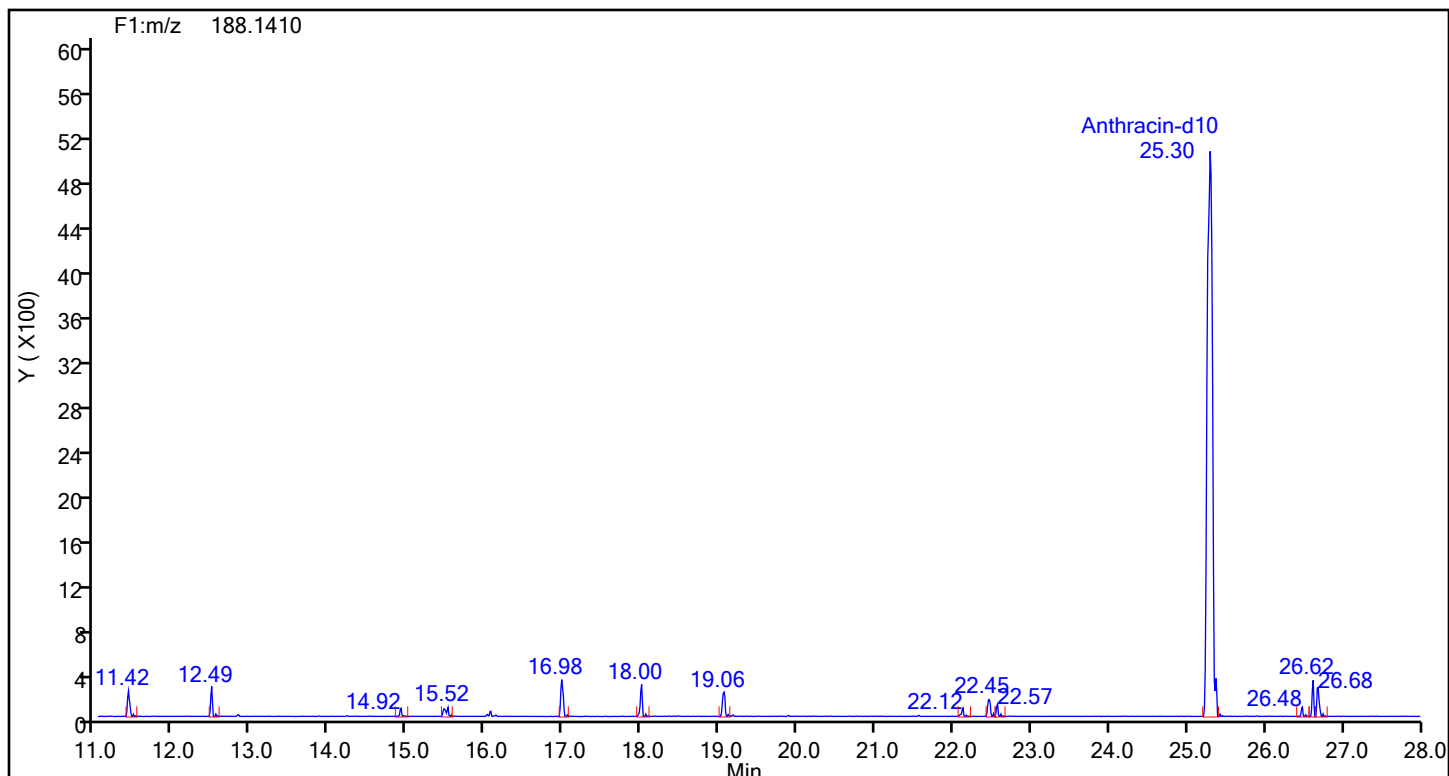


Phenanthrene Standards

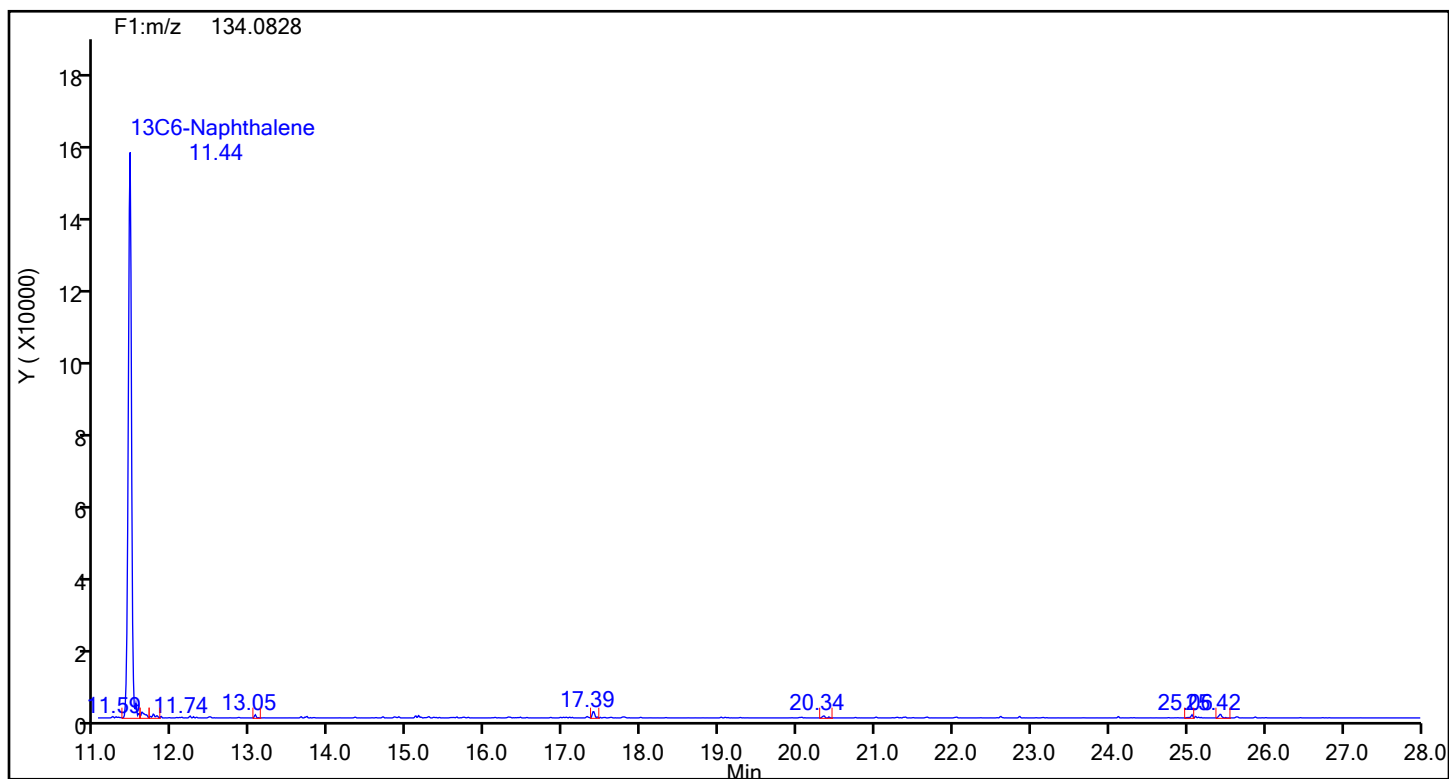


Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d		
Injection Date:	21-Jun-2024 20:25:00	Injection Vol:	1.0 ul
Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23_PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:	M23-NO.3 BOILER-RUN 1 COMBINED		
Worklist#:	87947	Sample Line#:	7
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Anthracin-d10			

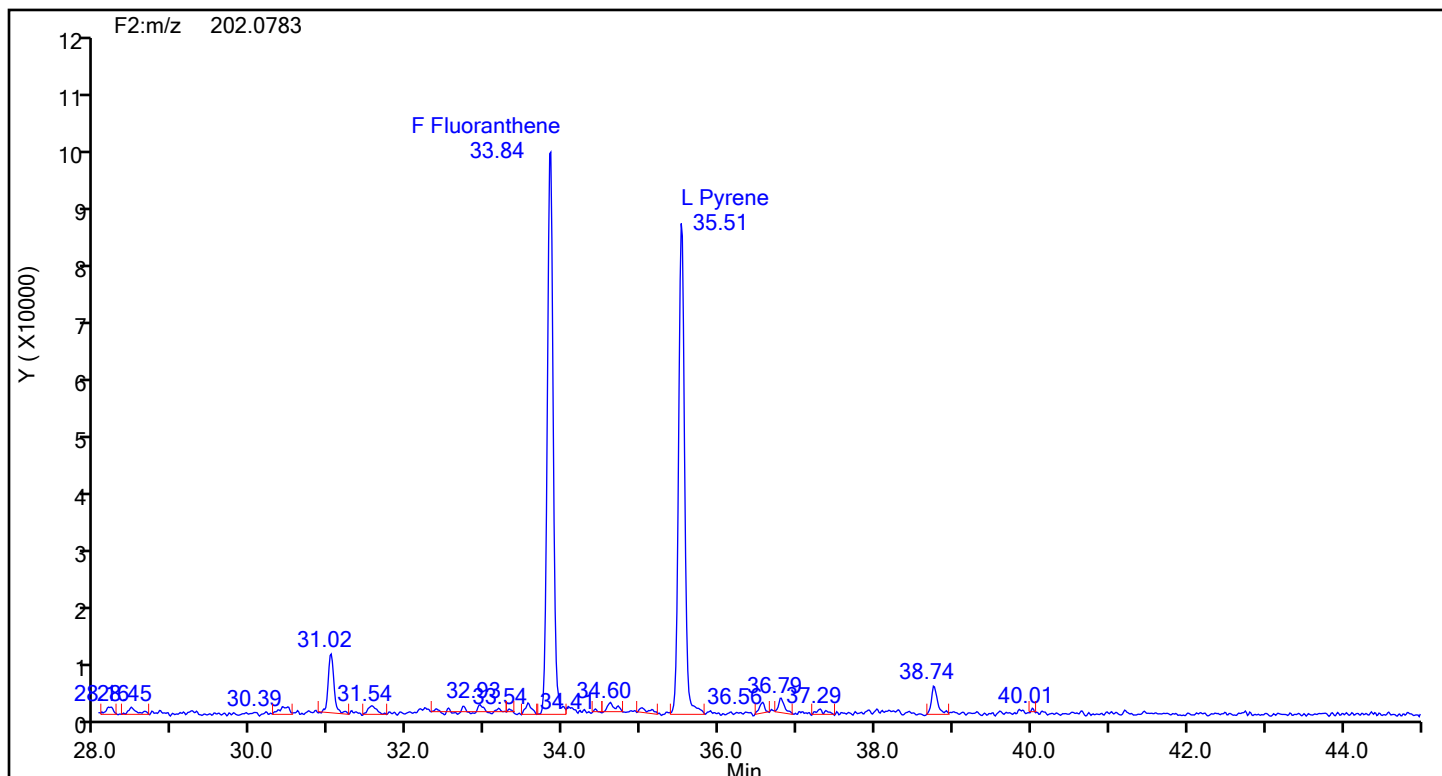


Anthracin-d10 Standards

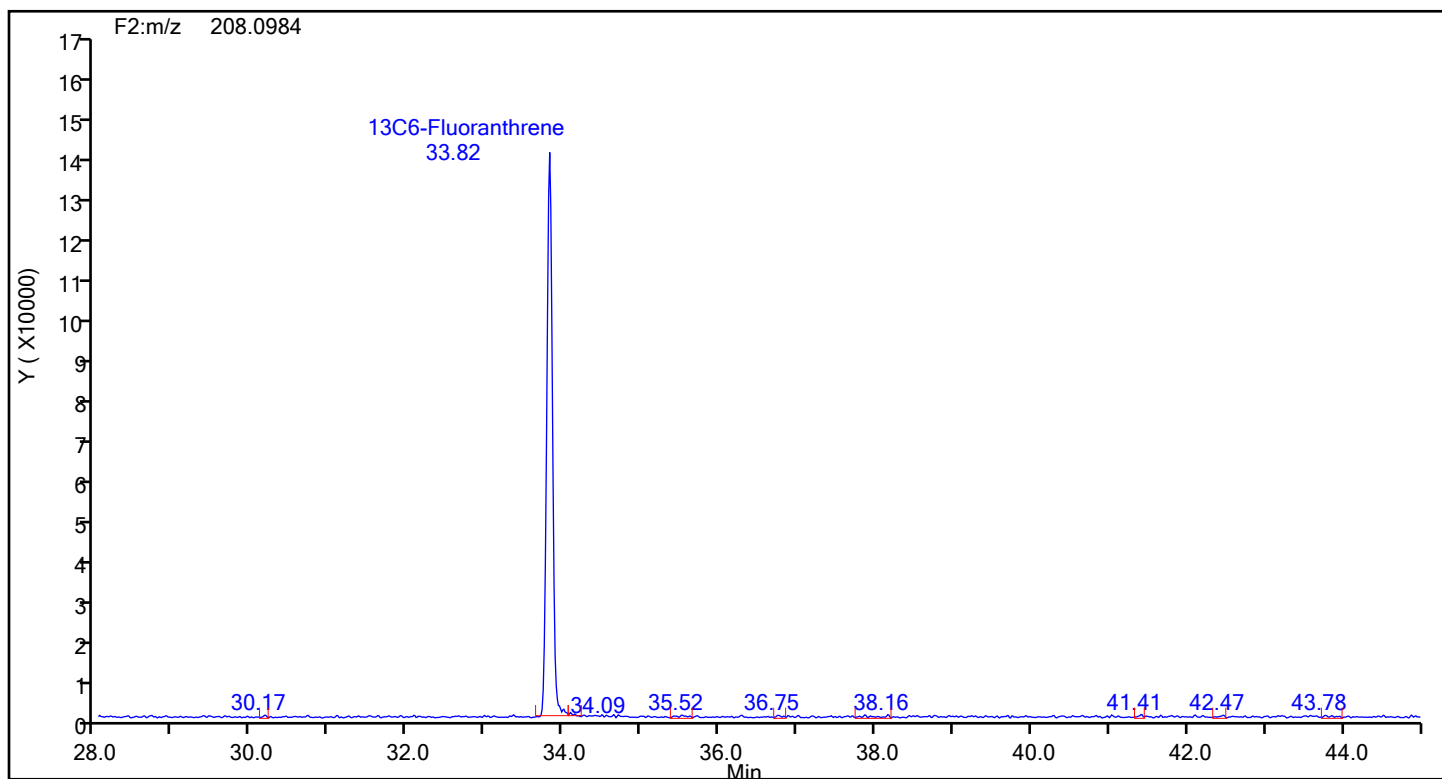


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



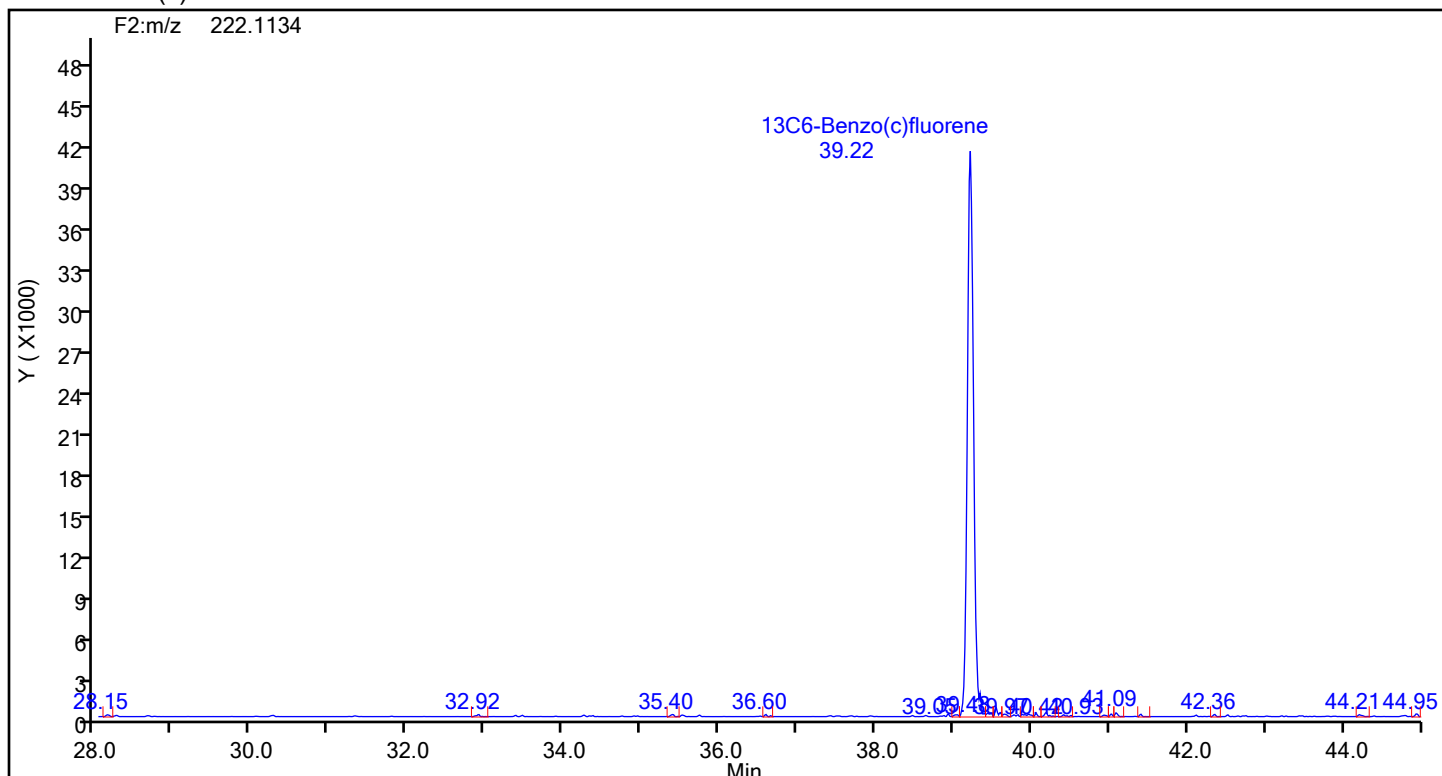
Fluoranthene Standards



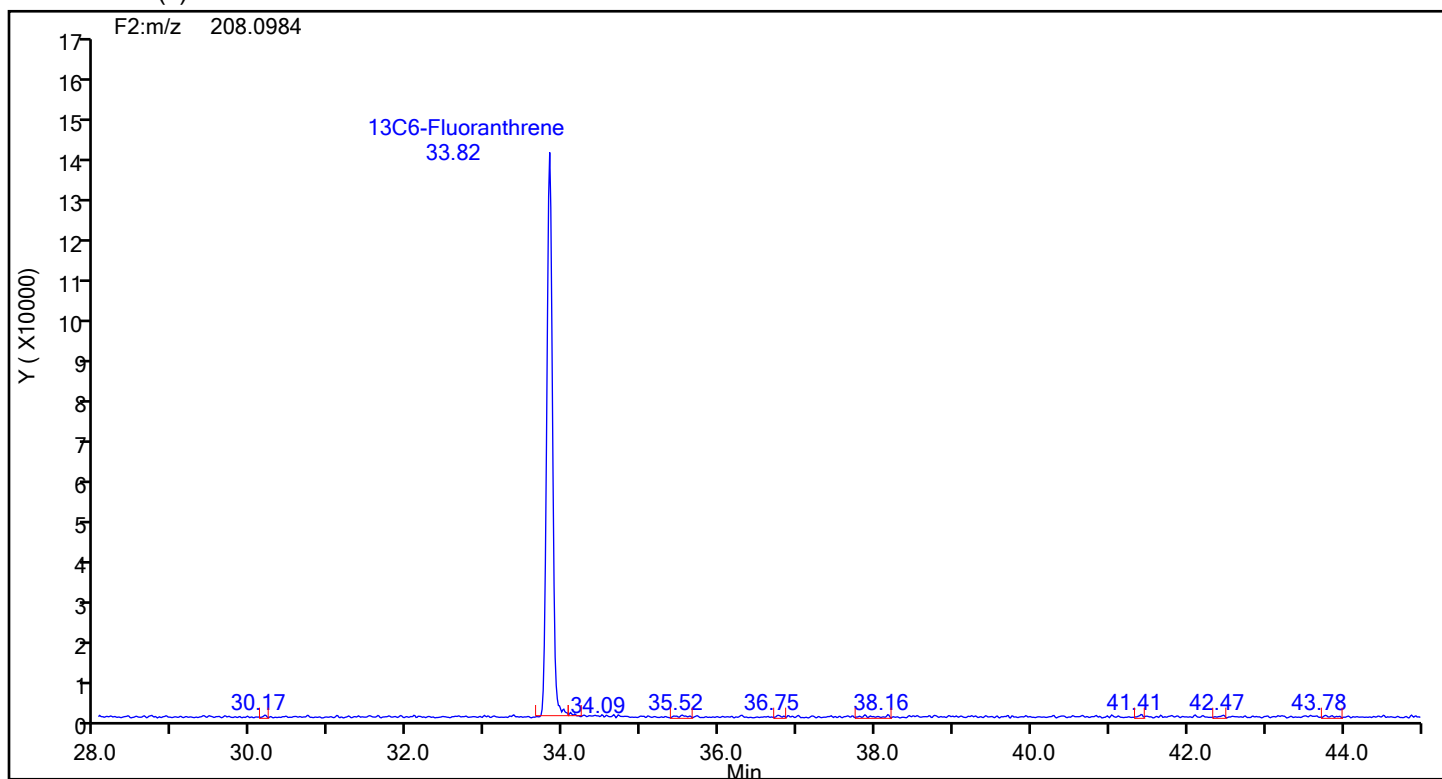
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



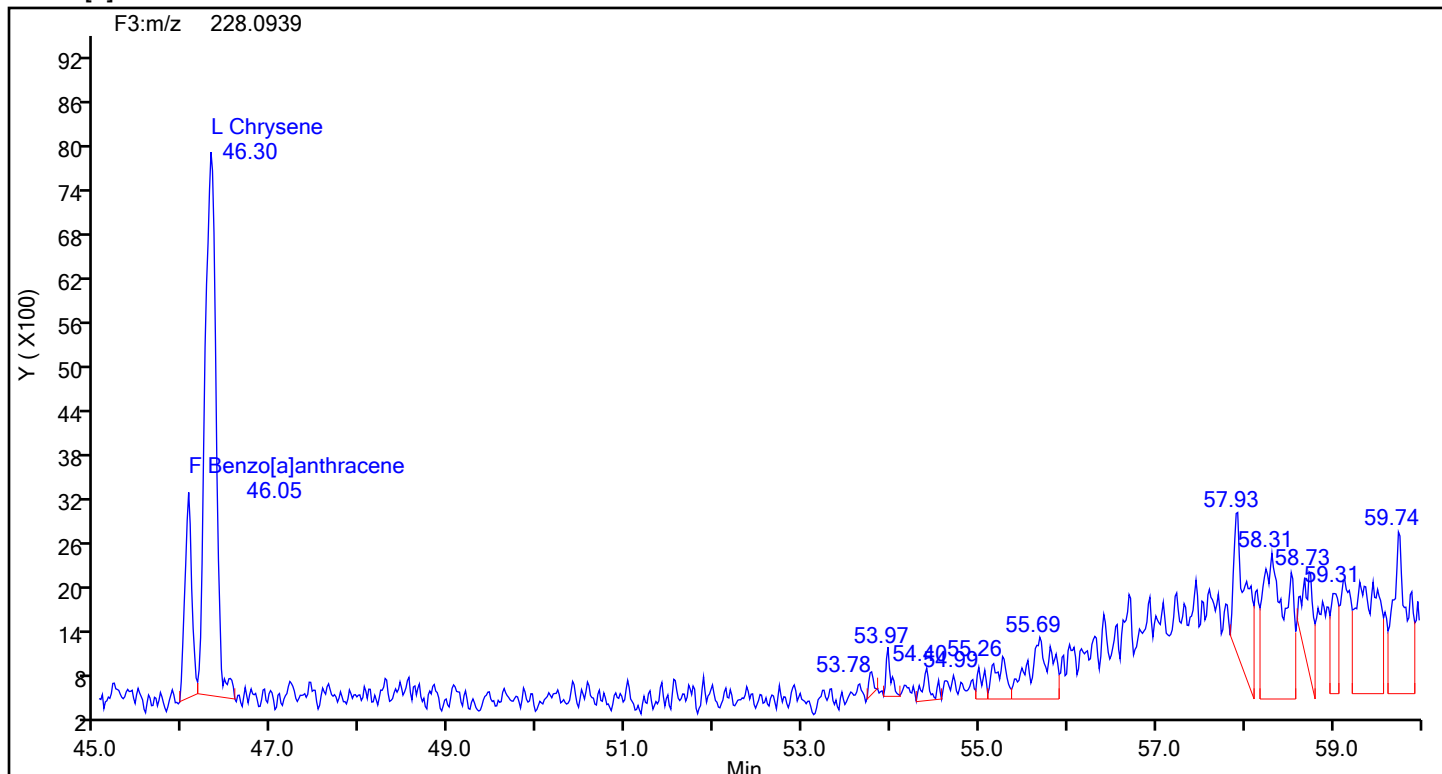
13C6-Benzo(c)fluorene Standards



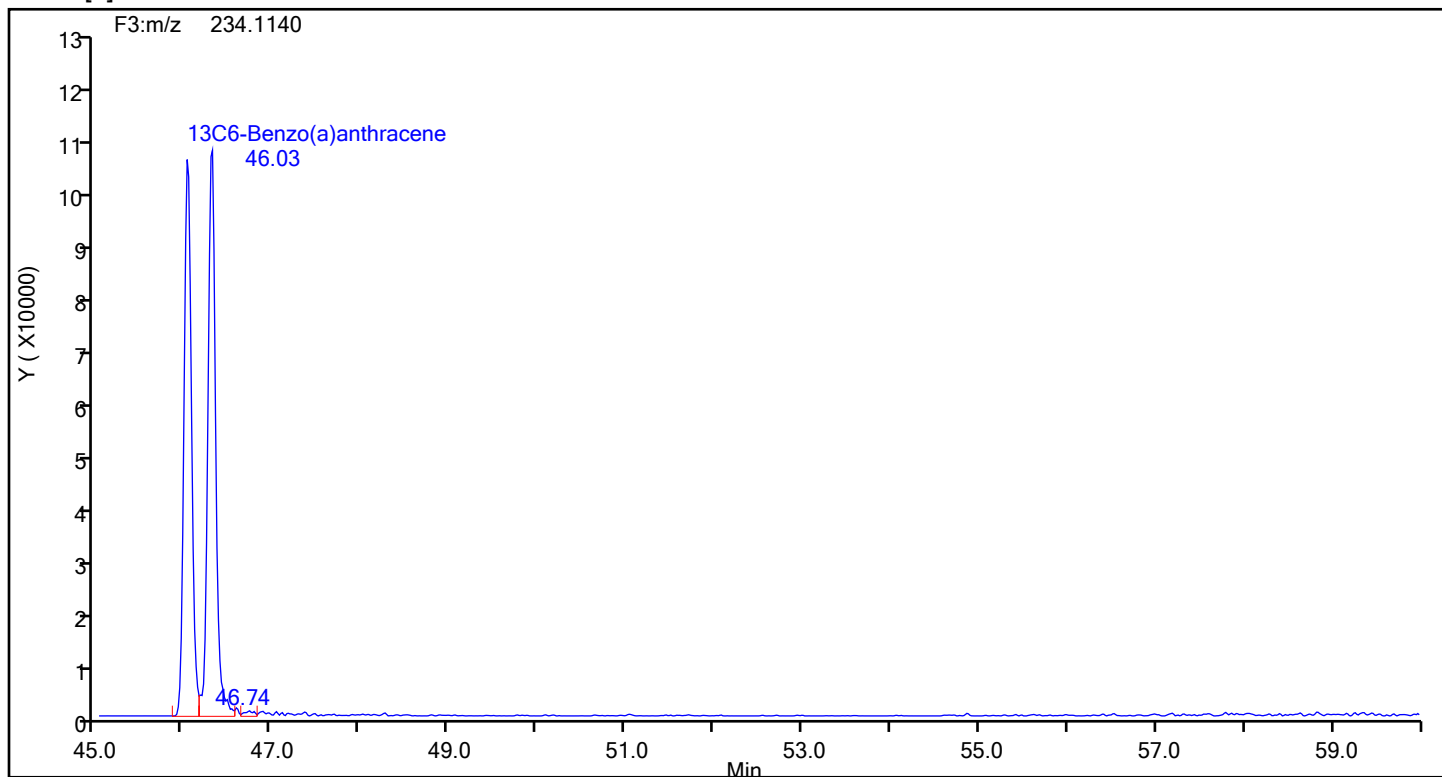
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

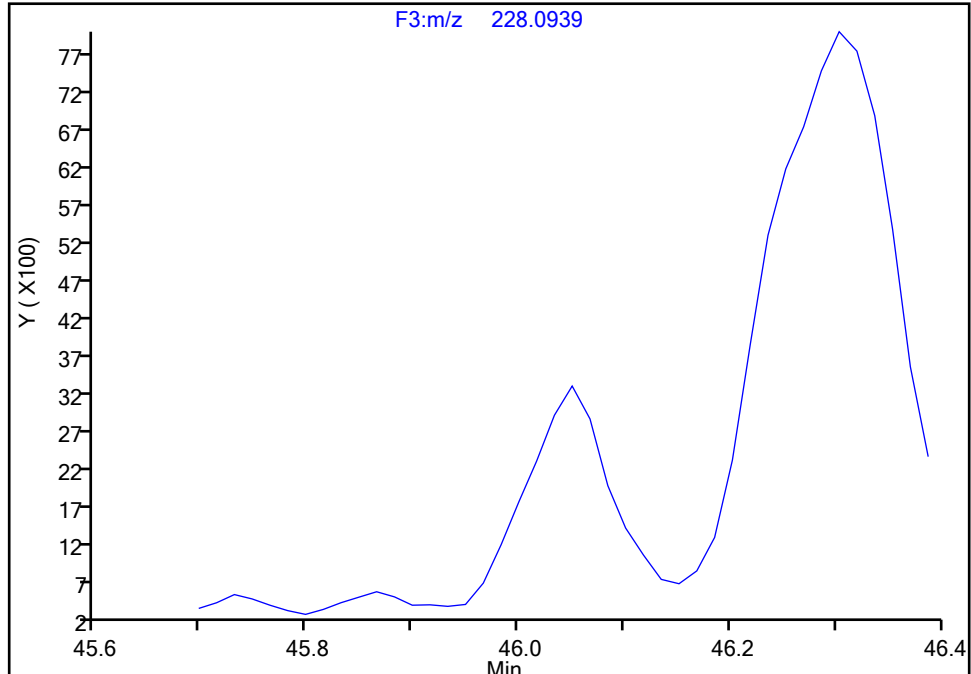
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Injection Date: 21-Jun-2024 20:25:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-1-D Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

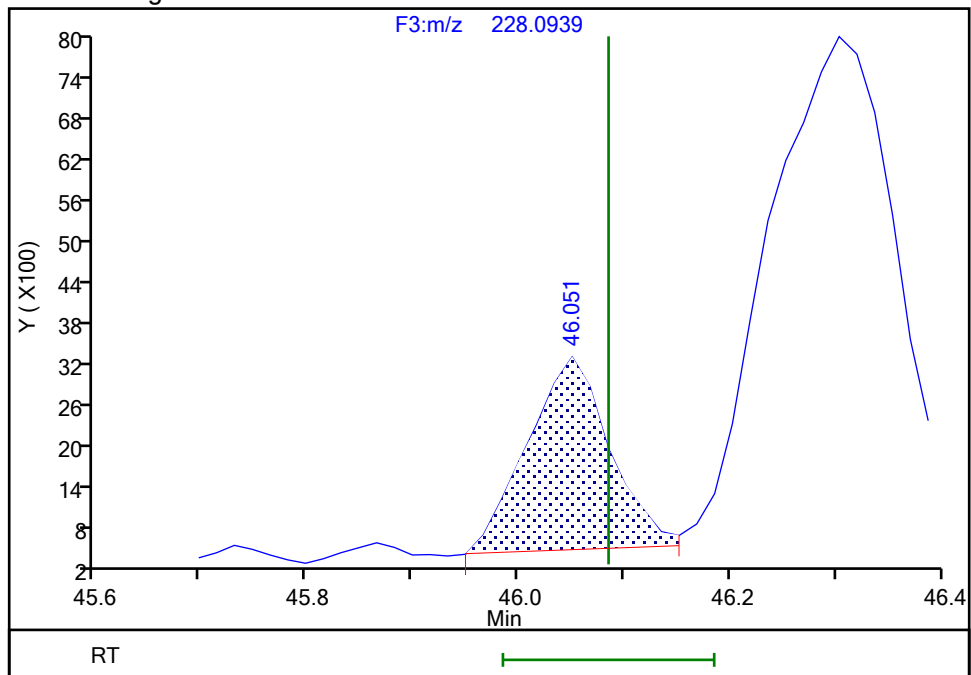
Not Detected
Expected RT: 46.09

Processing Integration Results



RT: 46.05
Area: 15119
Amount: 2.522512
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 10:13:12 -04:00:00 (UTC)

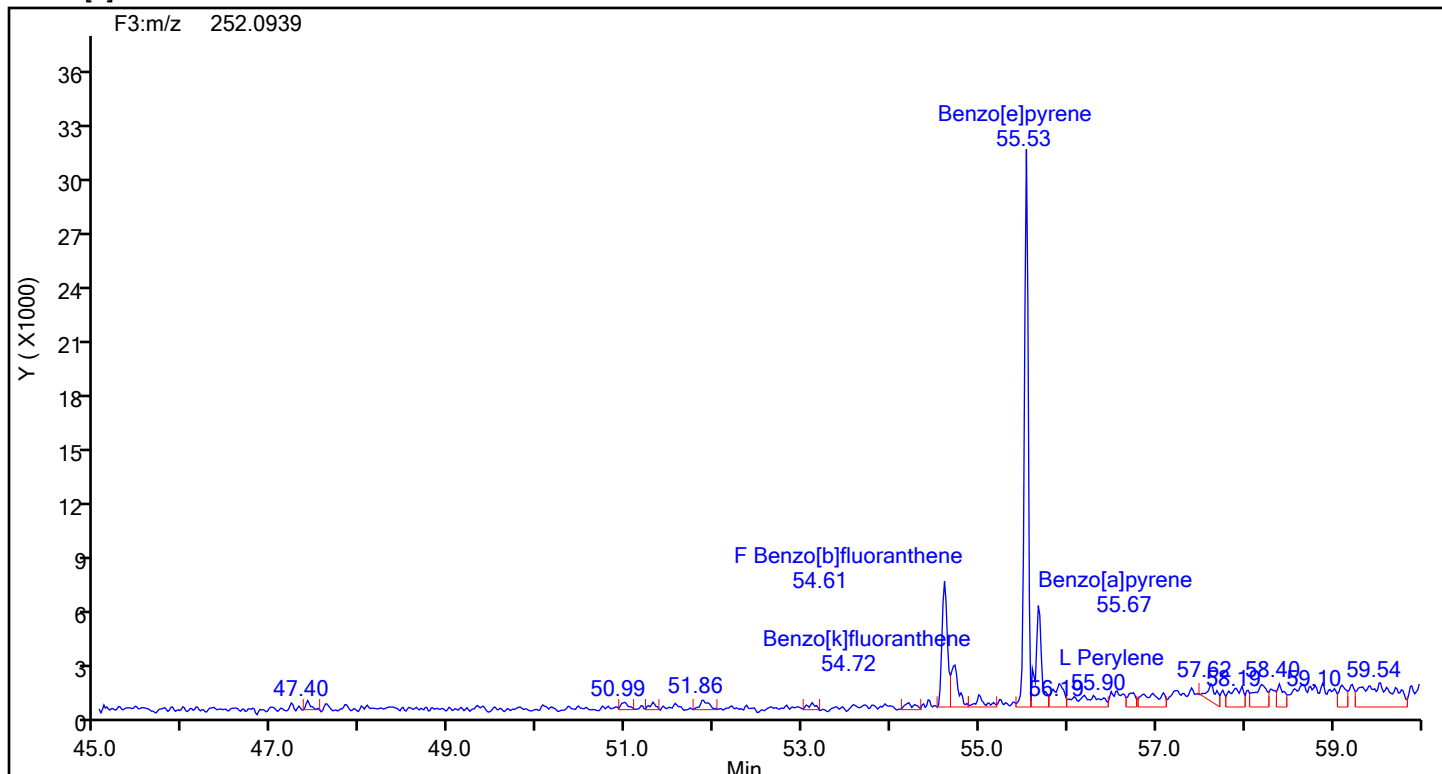
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

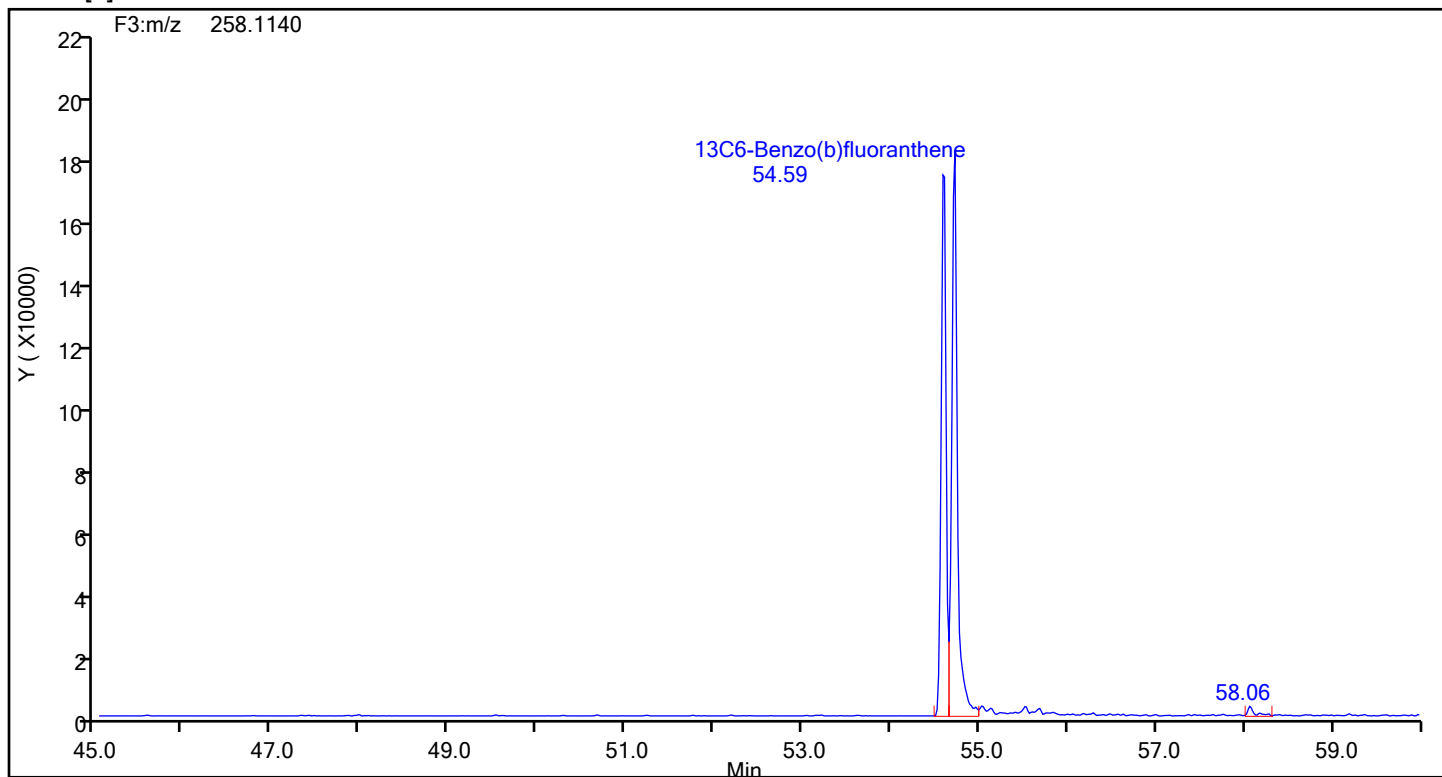
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

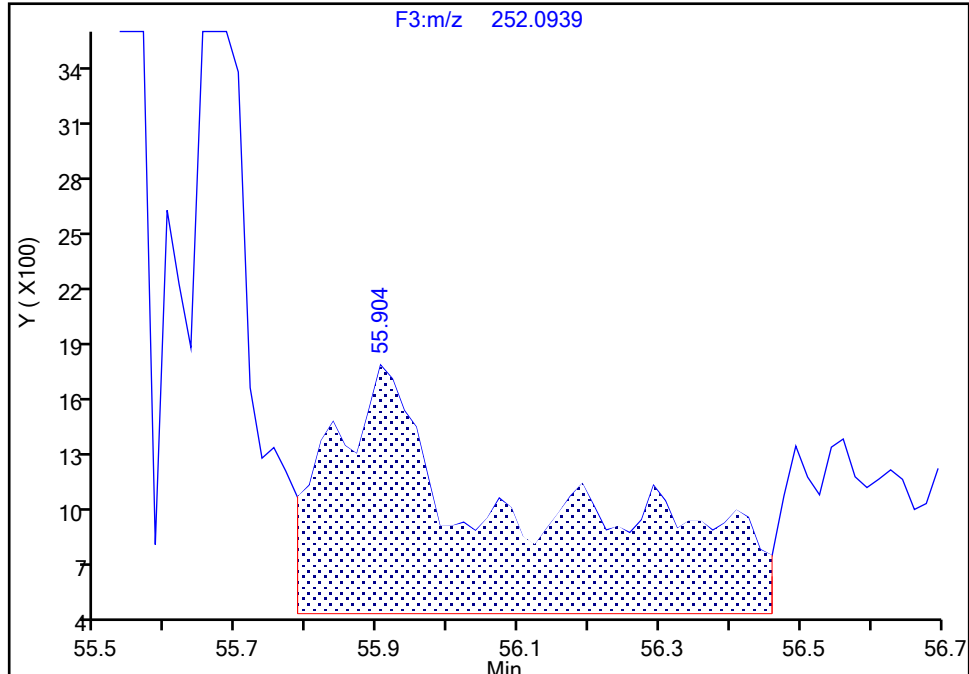
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-1-D Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

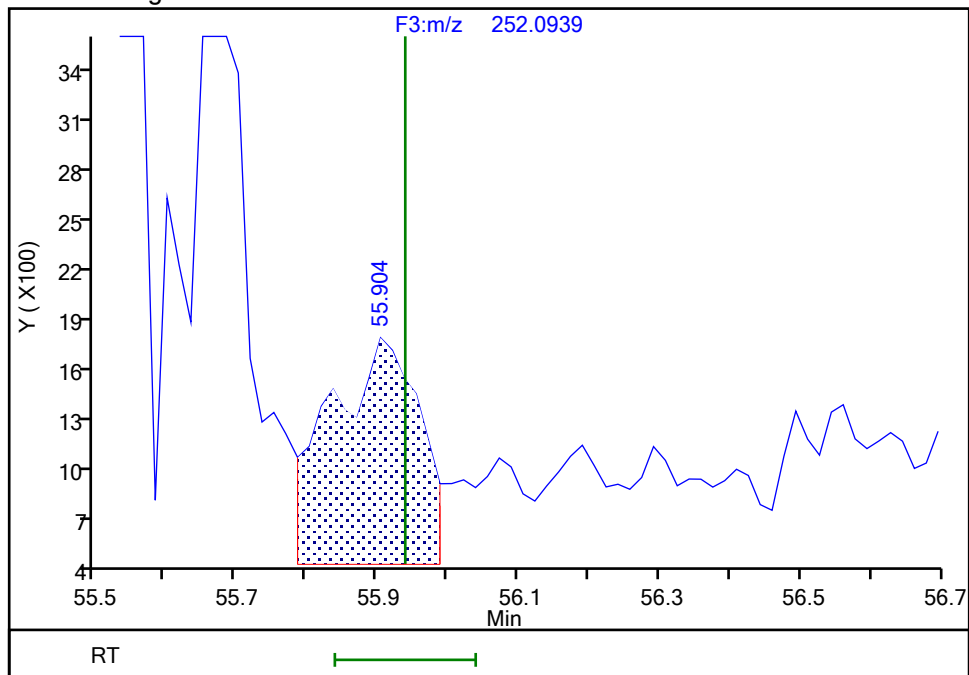
RT: 55.90
Area: 26055
Amount: 3.230785
Amount Units: pg/ul

Processing Integration Results



RT: 55.90
Area: 12214
Amount: 1.514520
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 10:14:11 -04:00:00 (UTC)

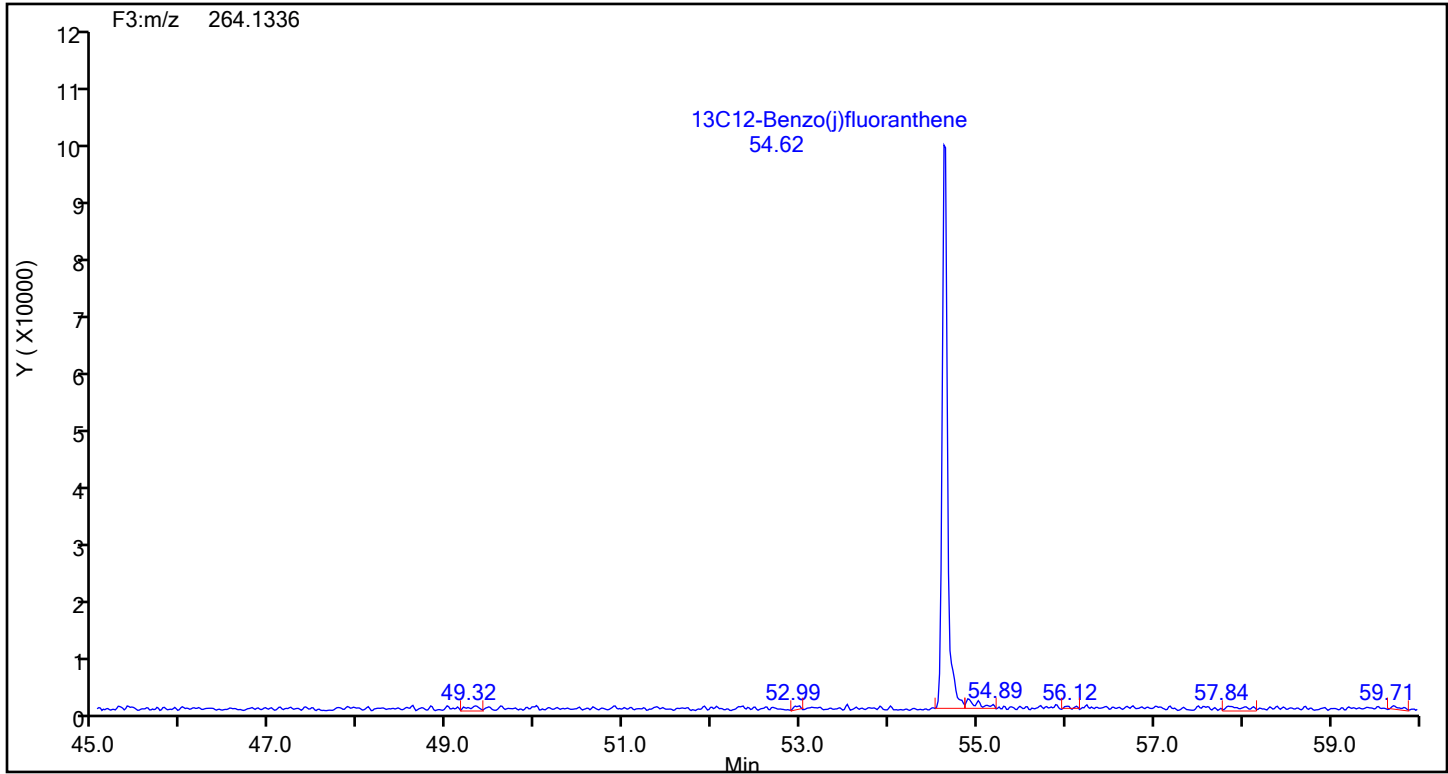
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

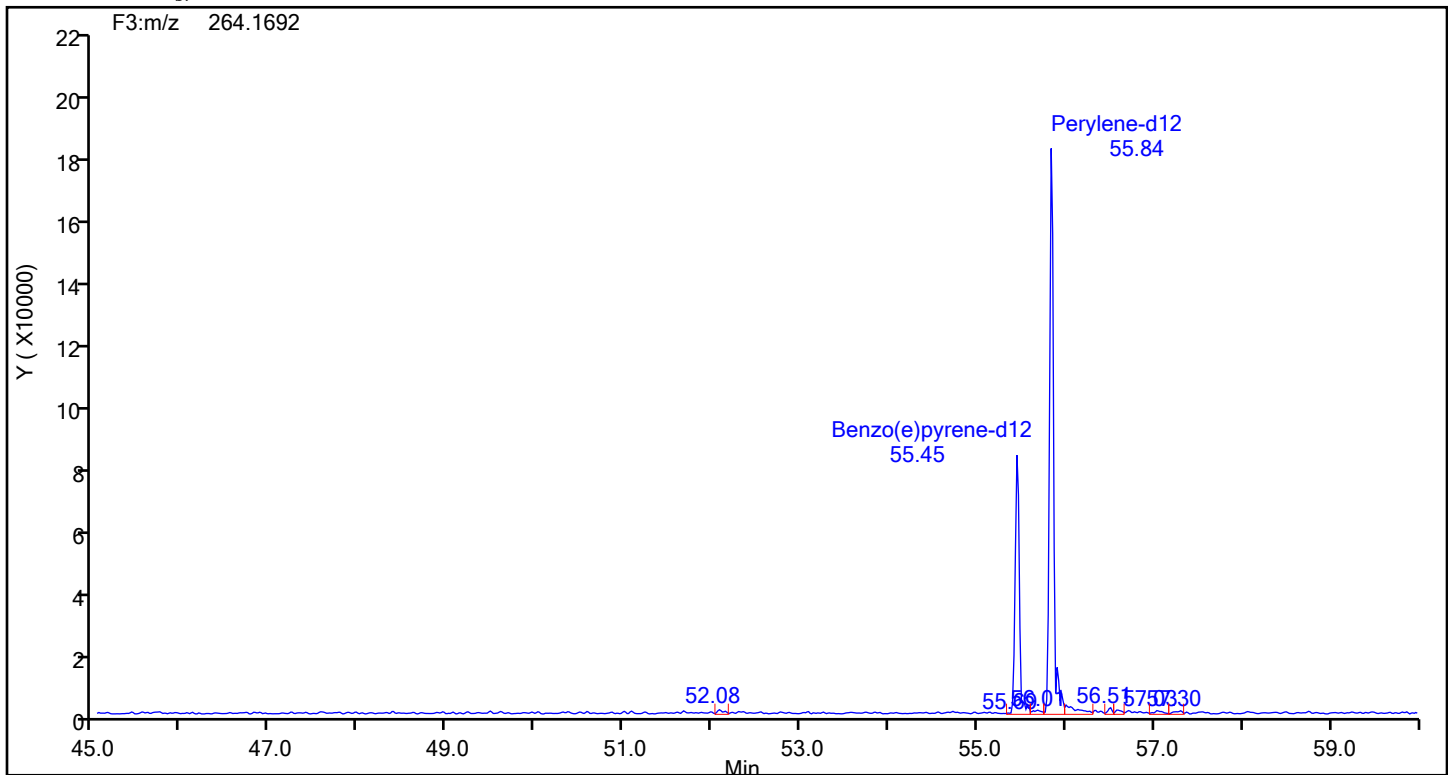
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d

Injection Date: 21-Jun-2024 20:25:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 1 COMBINED

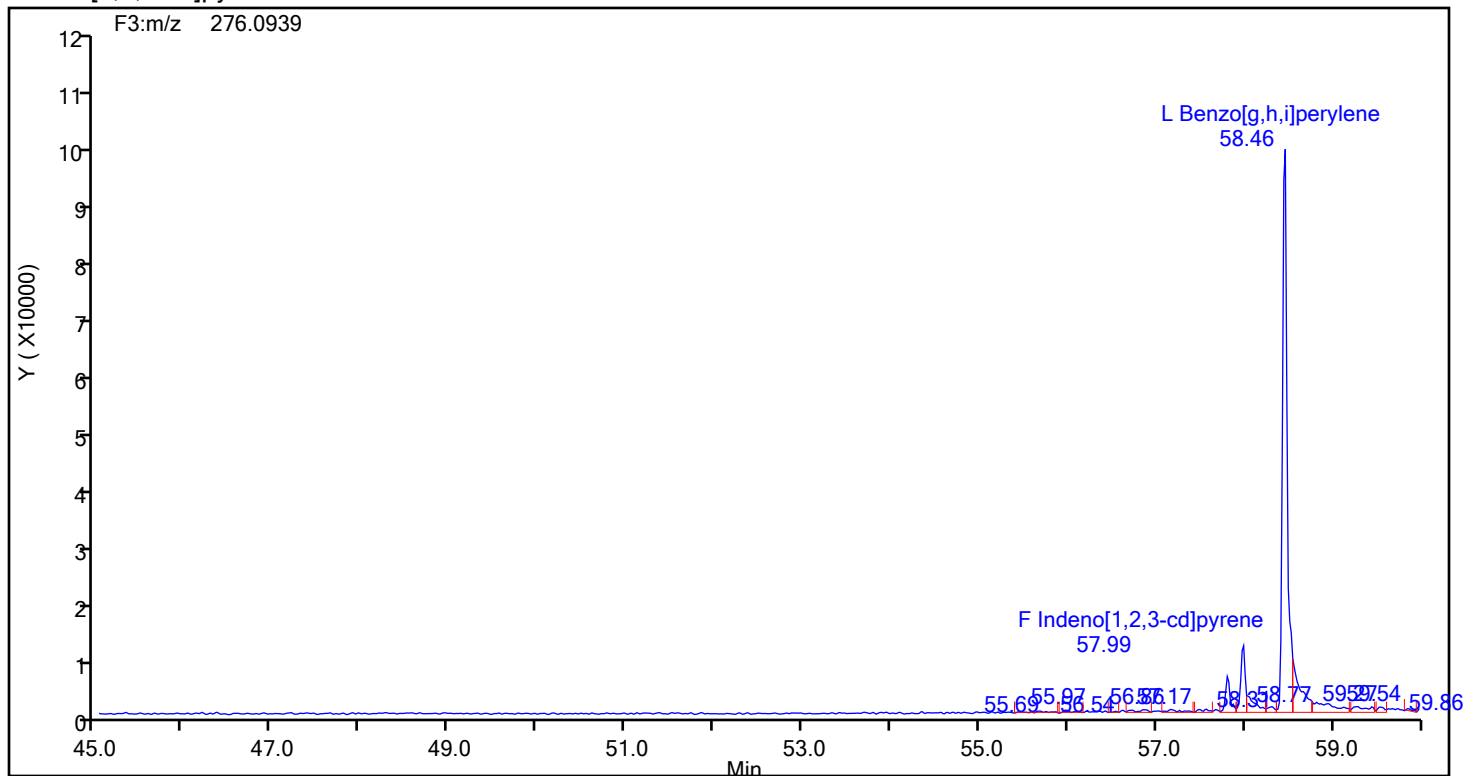
Worklist#: 87947

Sample Line#: 7

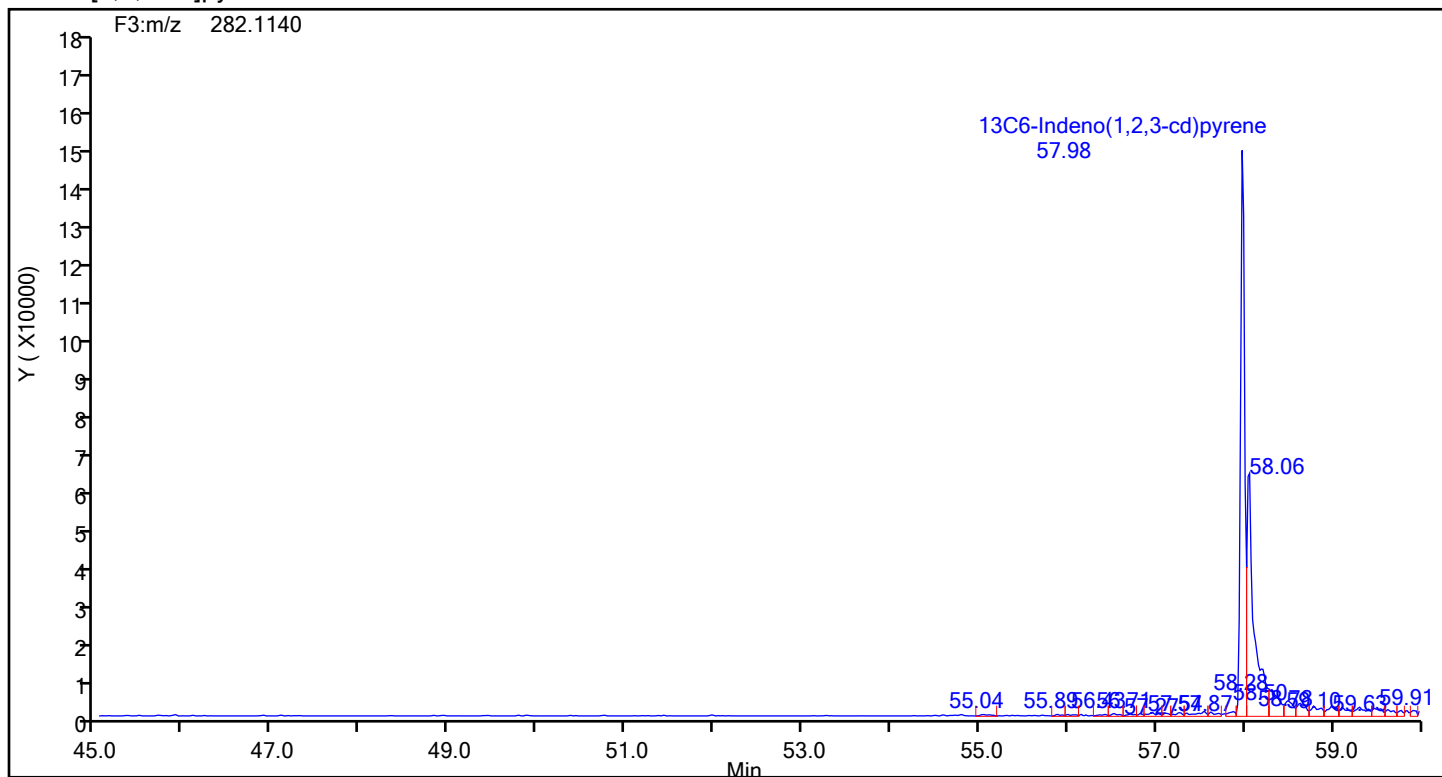
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

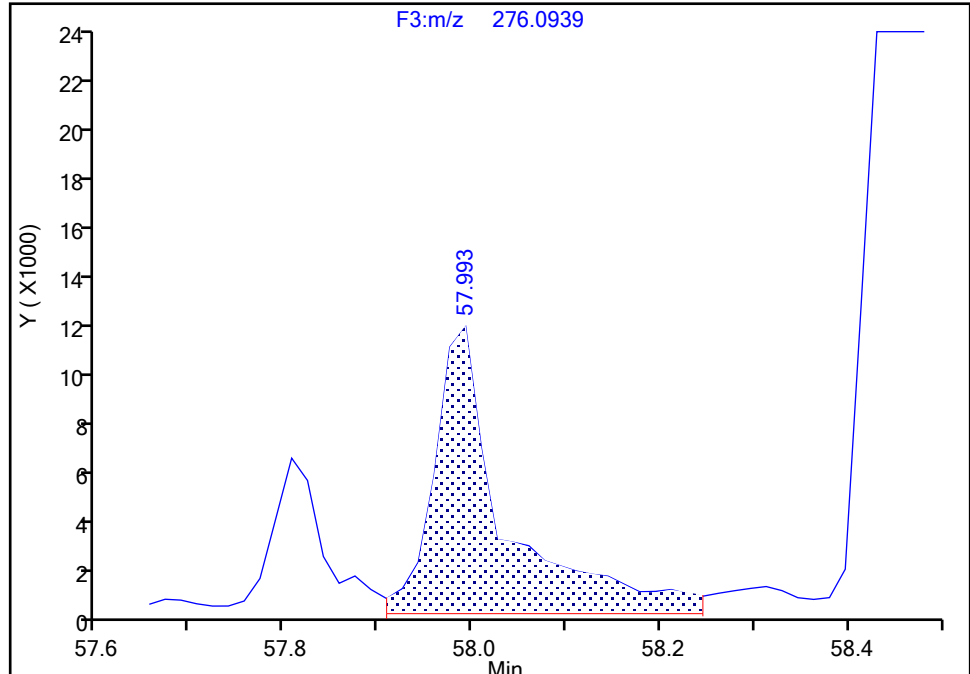
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-1-D Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

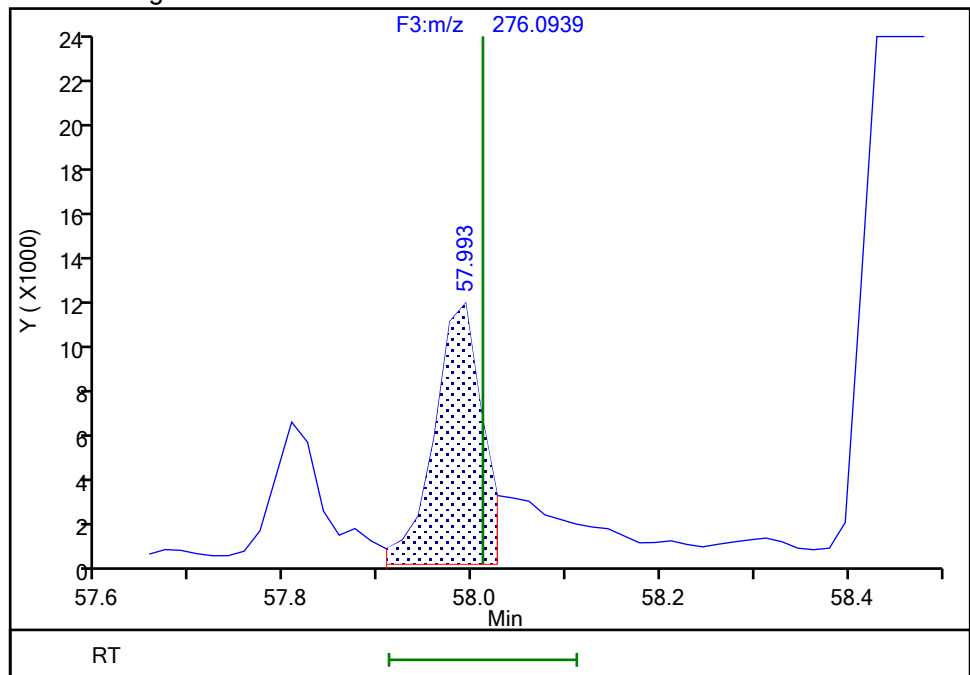
RT: 57.99
Area: 59724
Amount: 11.333682
Amount Units: pg/ul

Processing Integration Results



RT: 57.99
Area: 40510
Amount: 7.687487
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 10:14:19 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

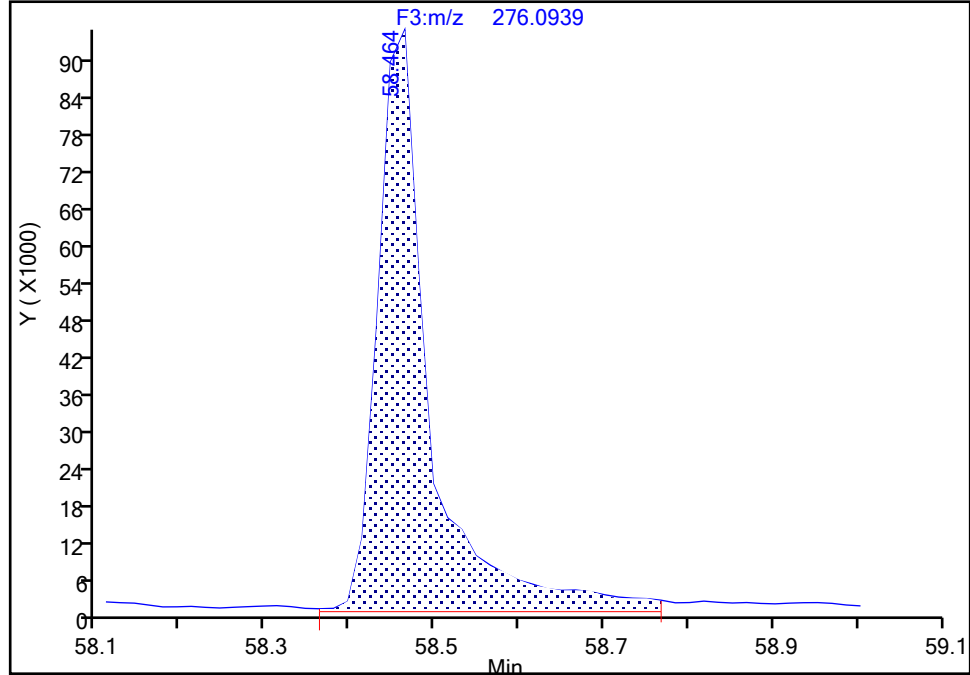
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-1-D Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

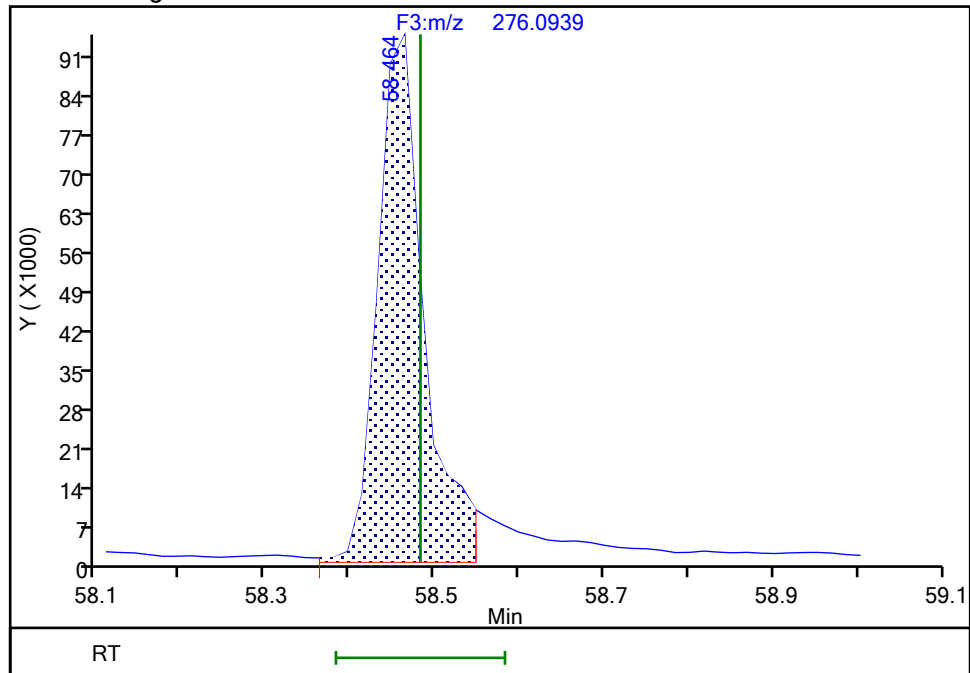
RT: 58.46
Area: 408381
Amount: 55.464465
Amount Units: pg/ul

Processing Integration Results



RT: 58.46
Area: 359241
Amount: 48.790492
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 10:14:50 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

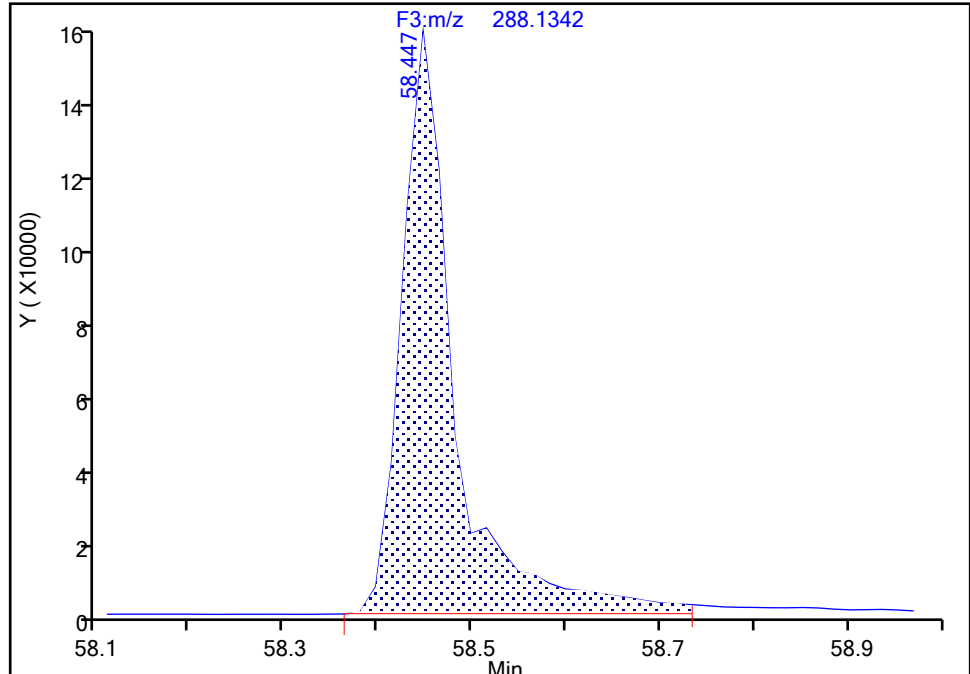
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-1-D Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

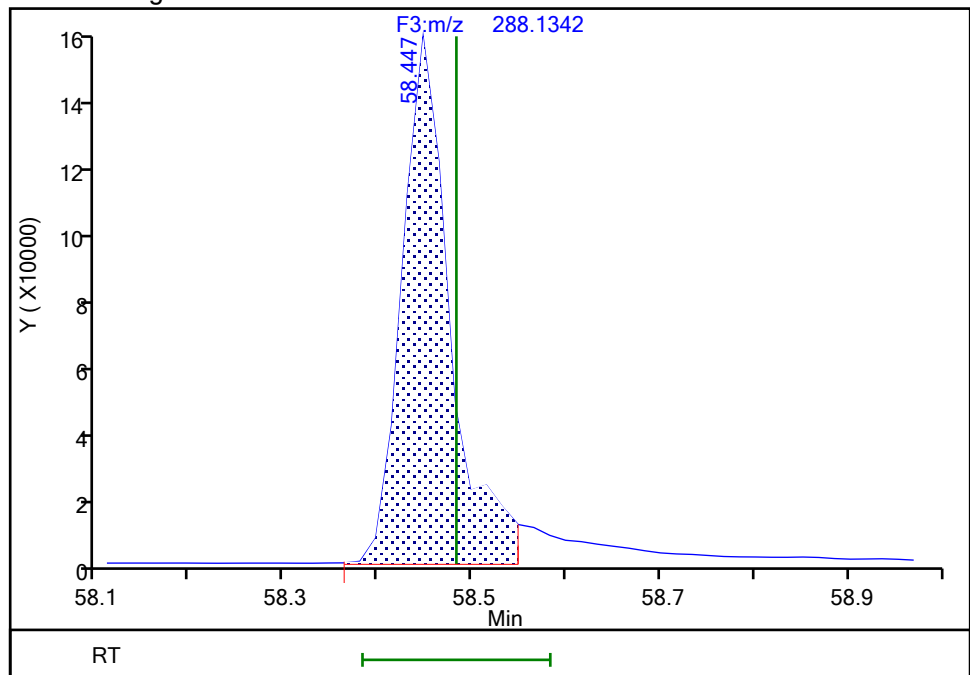
RT: 58.45
Area: 633513
Amount: 93.274822
Amount Units: pg/ul

Processing Integration Results



RT: 58.45
Area: 573546
Amount: 84.445625
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 10:14:42 -04:00:00 (UTC)

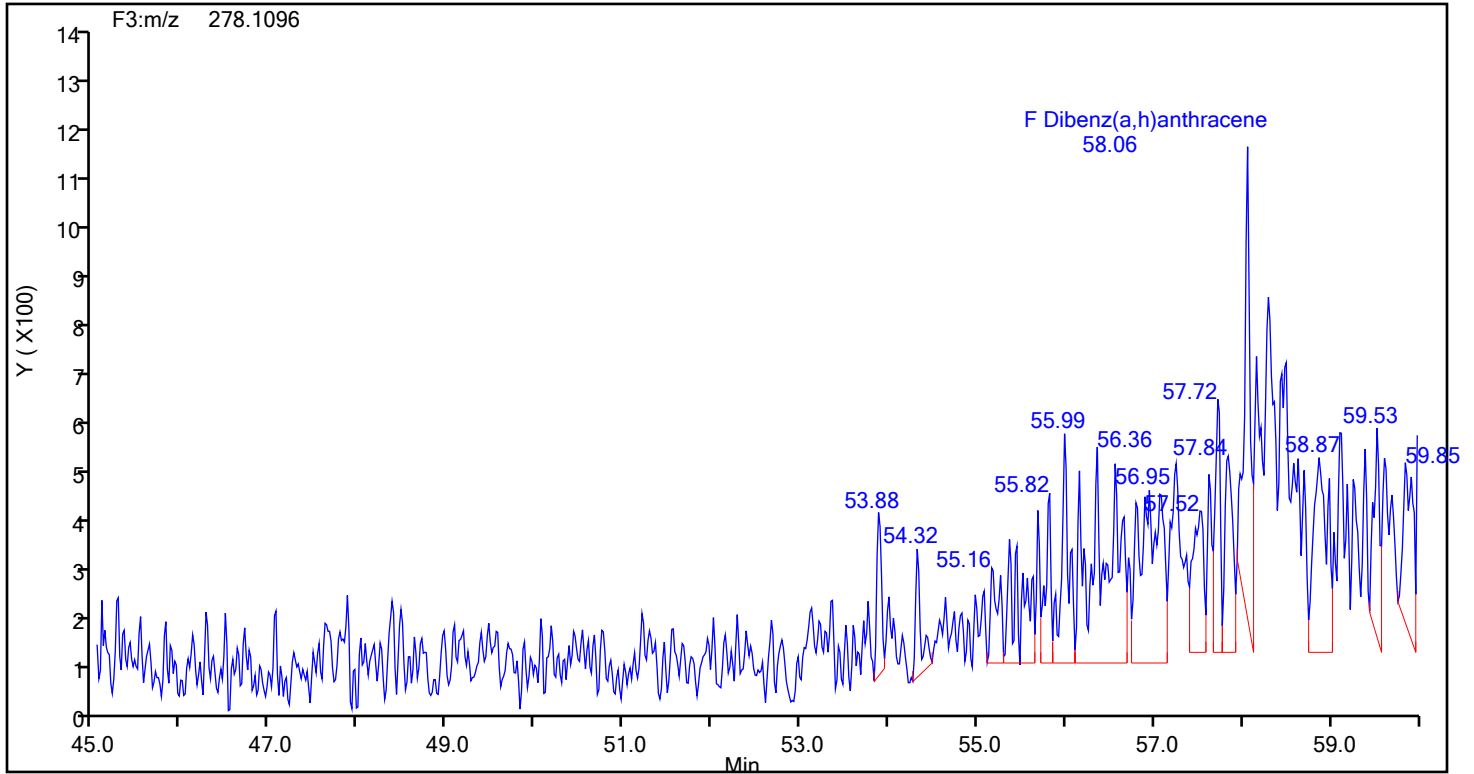
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

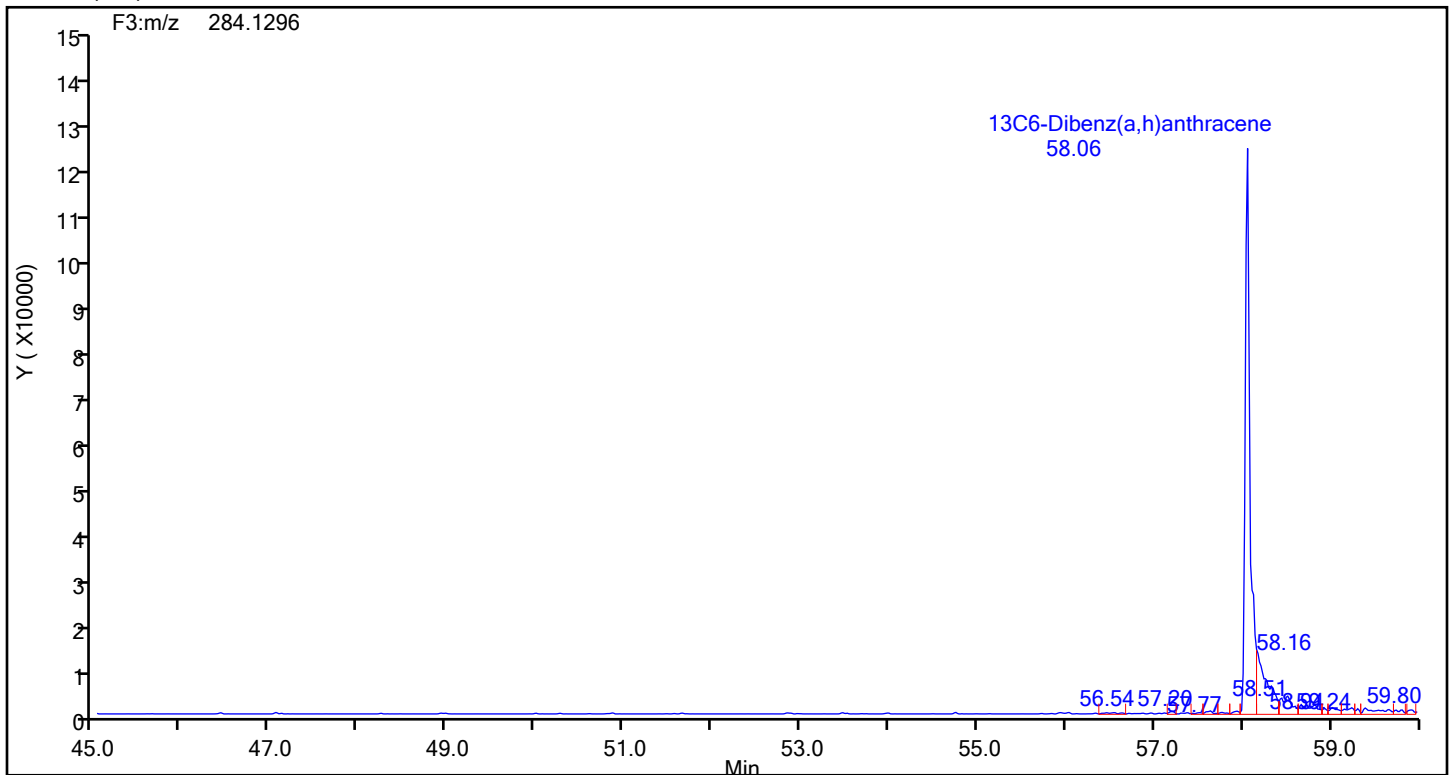
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87947 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

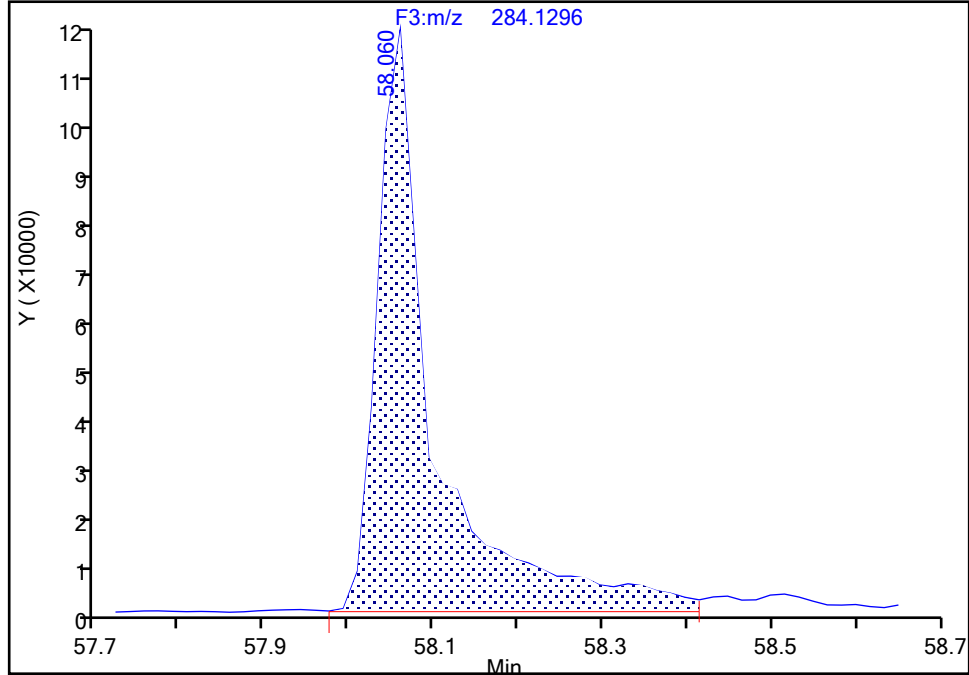
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Injection Date: 21-Jun-2024 20:25:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-1-D Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: ST03360

Signal: 1

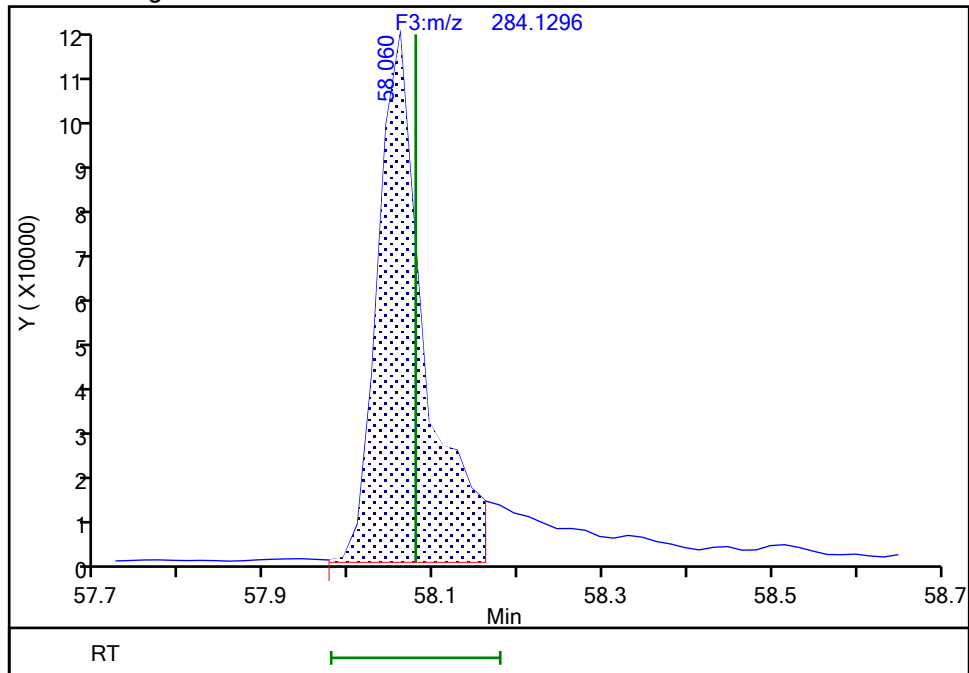
RT: 58.06
Area: 557366
Amount: 99.141110
Amount Units: pg/ul

Processing Integration Results



RT: 58.06
Area: 458092
Amount: 81.482813
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 10:14:25 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-1-d.d
Lims ID: 140-36689-A-1-D
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Sample Type: Client
Inject. Date: 21-Jun-2024 20:25:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033215-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 24-Jun-2024 10:17:21 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1661

First Level Reviewer: F9EE

Date: 24-Jun-2024 10:14:53

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	8.25	82.51
13C6-Benzo(c)fluorene	66.7	65.7	98.62
13C12-Benzo(j)fluoranthene	66.7	58.4	87.61

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 2</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-2-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/07/2024 19:40</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/21/2024 21:29</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87947</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	796	B	75.0	75.0	1.39
91-57-6	2-Methylnaphthalene	952	B	75.0	75.0	0.189
208-96-8	Acenaphthylene	31.7	B	3.00	3.00	0.133
83-32-9	Acenaphthene	90.0	B	30.0	30.0	0.206
86-73-7	Fluorene	236	B	30.0	30.0	0.445
85-01-8	Phenanthrene	923	B	6.00	6.00	0.572
120-12-7	Anthracene	76.5	B	30.0	30.0	0.541
206-44-0	Fluoranthene	89.4	B	6.00	6.00	0.152
129-00-0	Pyrene	106	B	6.00	6.00	0.162
56-55-3	Benzo[a]anthracene	2.01	J B	6.00	6.00	0.0420
218-01-9	Chrysene	7.06	B	6.00	6.00	0.0449
205-99-2	Benzo[b]fluoranthene	4.68	J B	30.0	30.0	0.0307
207-08-9	Benzo[k]fluoranthene	1.26	J B	6.00	6.00	0.0316
192-97-2	Benzo[e]pyrene	15.5	B	6.00	6.00	0.0321
50-32-8	Benzo[a]pyrene	3.71	B	3.00	3.00	0.0293
198-55-0	Perylene	1.22	J B	3.00	3.00	0.0287
193-39-5	Indeno[1,2,3-cd]pyrene	8.52	B	3.00	3.00	0.0223
53-70-3	Dibenz(a,h)anthracene	0.162	J B	6.00	6.00	0.0123
191-24-2	Benzo[g,h,i]perylene	43.4	B	6.00	6.00	0.0191

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 2</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-2-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/07/2024 19:40</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/21/2024 21:29</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87947</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	39		20-130
STL03357	13C6-2-Methylnaphthalene	48		20-130
189811-56-1	13C6-Acenaphthylene	72		20-130
189811-57-2	13C6-Acenaphthene	67		20-130
STL00616	13C6-Fluorene	76		20-130
1397194-60-3	13C6-Fluoranthrene	87		20-130
1397214-90-2	13C3-Pyrene	79		20-130
917378-11-1	13C6-Benzo (a) anthracene	83		20-130
1397177-72-8	13C6-Chrysene	79		20-130
STL03358	13C6-Benzo (b) fluoranthene	92		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	86		20-130
STL03382	13C4-Benzo (e) pyrene	76		20-130
STL03359	13C4-Benzo (a) pyrene	85		20-130
1520-96-3	Perylene-d12	72		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	91		20-130
STL03360	13C6-Dibenz (a,h) anthracene	96		20-130
350820-11-0	13C12-Benzo (ghi) perylene	86		20-130
189811-60-7	13C6-Anthracene	114		20-130
1189955-53-0	13C6-Phenanthrene	97		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d
 Lims ID: 140-36689-A-2-D
 Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
 Sample Type: Client
 Inject. Date: 21-Jun-2024 21:29:00 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033215-008
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 24-Jun-2024 10:17:21 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1661

First Level Reviewer: F9EE

Date: 24-Jun-2024 10:17:21

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:30	3749311		3.3746	39.3	39.3	0.008079	0.008079	39.29	
Naphthalene	11:30	25664987		1.2893	530.9	530.9	0.9289	0.9289		
D 13C6-2-Methylnaphthalene	13:50	2169903		1.6031	47.9	47.9	0.0158	0.0158	47.87	
2-Methylnaphthalene	13:50	17611017		1.2786	634.8	634.8	0.1257	0.1257		
D 13C6-Acenaphthylene	16:43	3351660		1.6520	71.7	71.7	0.0122	0.0122	71.75	
Acenaphthylene	16:43	922379		2.3661	21.2	21.2	0.0889	0.0889		a
* Acenaphthene-d10	17:17	1413851		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:24	1843076		0.9792	66.6	66.6	0.0234	0.0234	66.57	
Acenaphthene	17:25	1404204		1.2697	60.0	60.0	0.1371	0.1371		
D 13C6-Fluorene	19:41	1914364		0.8898	76.1	76.1	0.0402	0.0402	76.08	
Fluorene	19:42	3767525		1.2532	157.0	157.0	0.2968	0.2968		
D 13C6-Phenanthrene	25:05	3550144		0.5724	96.8	96.8	0.0129	0.0129	96.76	
Phenanthrene	25:05	24115186		1.1044	615.0	615.0	0.3812	0.3812		
\$ Anthracin-d10	25:18	226065		0.4257	8.285	8.285	0.0183	0.0183	82.85	
D 13C6-Anthracene	25:25	3300721		0.4523	113.8	113.8	0.0163	0.0163	114	
Anthracene	25:25	2287564		1.3586	51.0	51.0	0.3608	0.3608		
D 13C6-Fluoranthrene	33:49	6707735		1.1994	87.3	87.3	0.0251	0.0251	87.25	
Fluoranthene	33:50	4600760		1.1513	59.6	59.6	0.1011	0.1011		
* Pyrene-d10	35:23	3204799		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:31	6799748		1.3512	78.5	78.5	0.0198	0.0198	78.51	
Pyrene	35:31	5134988		1.0652	70.9	70.9	0.1079	0.1079		
\$ 13C6-Benzo(c)fluorene	39:14	2283592		0.5136	69.4	69.4	0.0120	0.0120	104	
D 13C6-Benzo(a)anthracene	46:03	6992590		1.5189	83.3	83.3	0.0158	0.0158	83.32	
Benzo[a]anthracene	46:03	91144		0.9739	1.338	1.338	0.0280	0.0280		
D 13C6-Chrysene	46:19	7108072		1.6287	79.0	79.0	0.0147	0.0147	78.98	
Chrysene	46:19	328198		0.9815	4.705	4.705	0.0299	0.0299		
D 13C6-Benzo(b)fluoranthene	54:36	7433738		1.4621	92.0	92.0	0.005210	0.005210	92.02	
Benzo[b]fluoranthene	54:37	260883		1.1249	3.120	3.120	0.0205	0.0205		
\$ 13C12-Benzo(j)fluoranthene	54:38	4556673		1.3558	60.8	60.8	0.0125	0.0125	91.23	
D 13C6-Benzo(k)fluoranthene	54:43	8319639		1.7507	86.0	86.0	0.004351	0.004351	86.01	
Benzo[k]fluoranthene	54:44	78926		1.1271	0.8417	0.8417	0.0211	0.0211		
* Benzo(e)pyrene-d12	55:28	2762758		5.7E+04	50.0	50.0				
Benzo[e]pyrene	55:33	708830		1.0013	10.3	10.3	0.0214	0.0214		
D 13C4-Benzo(e)pyrene	55:33	6870614		1.6368	76.0	76.0	0.0135	0.0135	75.97	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:41	7256320		1.5508	84.7	84.7	0.0143	0.0143	84.68	
Benzo[a]pyrene	55:41	199594		1.1130	2.471	2.471	0.0196	0.0196		
D Perylene-d12	55:51	4768736		1.1917	72.4	72.4	0.0136	0.0136	72.42	
Perylene	55:55	55350		1.4307	0.8113	0.8113	0.0192	0.0192		
D 13C6-Indeno(1,2,3-cd)pyrene	57:59	5151341		1.0218	91.2	91.2	0.0106	0.0106	91.24	
Indeno[1,2,3-cd]pyrene	57:59	329259		1.1249	5.682	5.682	0.0149	0.0149		M
D 13C6-Dibenz(a,h)anthracene	58:03	5603389		1.0553	96.1	96.1	0.005948	0.005948	96.10	M
Dibenz(a,h)anthracene	58:03	6838		1.1314	0.1079	0.1079	0.008222	0.008222		M
D 13C12-Benzo(ghi)perylene	58:28	6052551		1.2749	85.9	85.9	0.005344	0.005344	85.92	M
Benzo[g,h,i]perylene	58:28	2248515		1.2838	28.9	28.9	0.0128	0.0128		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d
 Lims ID: 140-36689-A-2-D
 Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
 Sample Type: Client
 Inject. Date: 21-Jun-2024 21:29:00 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033215-008
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 24-Jun-2024 10:17:21 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1661

First Level Reviewer: F9EE

Date: 24-Jun-2024 10:17:21

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:30	11:15	-2	0.665	3749311	1304318	112	280	11646		
Naphthalene											
128.0626	11:30	11:33	-3	1.000	25664987	8755861	6248	15620	1401		
13C6-2-Methylnaphthalene											
148.0984	13:50	13:31	-2	0.800	2169903	1024693	104	260	9853		
2-Methylnaphthalene											
142.0783	13:50	13:52	-2	1.001	17611017	8081698	659	1647	12264		
13C6-Acenaphthylene											
158.0828	16:43	16:20	-2	0.967	3351660	1197028	83	207	14422		
Acenaphthylene											
152.0626	16:43	16:43	-2	1.000	922379	344348	549	1372	627		a
Acenaphthene-d10											
164.1404	17:17	17:19	-2		1413851	513532	98	245	5240		a
13C6-Acenaphthene											
160.0984	17:24	17:00	-2	1.007	1843076	651958	94	235	6936		
Acenaphthene											
154.0783	17:25	17:27	-2	1.001	1404204	489119	454	1135	1077		
13C6-Fluorene											
172.0984	19:41	19:14	-2	1.139	1914364	605380	147	367	4118		
Fluorene											
166.0783	19:42	19:44	-2	1.001	3767525	1085495	901	2252	1205		
13C6-Phenanthrene											
184.0984	25:05	25:06	-1	0.709	3550144	867361	36	90	24093		
Phenanthrene											
178.0783	25:05	25:05	-2	1.000	24115186	5581732	1461	3652	3820		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:18	25:18	-2	0.715	226065	51956	38	95	1367		
13C6-Anthracene											
184.0984	25:25	25:26	-2	0.718	3300721	745002	36	90	20695		E
Anthracene											
178.0783	25:25	25:25	-2	1.000	2287564	483655	1461	3652	331		
13C6-Fluoranthrene											
208.0984	33:49	33:52	-3	0.956	6707735	1310491	147	367	8915		
Fluoranthene											
202.0783	33:50	33:51	-2	1.000	4600760	903565	610	1525	1481		
Pyrene-d10											
212.1404	35:23	35:25	-2		3204799	609762	51	127	11956		
13C3-Pyrene											
205.0883	35:31	35:33	-2	1.004	6799748	1326962	131	327	10129		
Pyrene											
202.0783	35:31	35:30	-2	1.000	5134988	988468	610	1525	1620		
13C6-Benzo(c)fluorene											
222.1134	39:14	39:31	-2	0.707	2283592	440431	30	75	14681		
13C6-Benzo(a)anthracene											
234.1140	46:03	46:04	-2	1.302	6992590	1271841	179	447	7105		
Benzo[a]anthracene											
228.0939	46:03	46:04	-3	1.000	91144	16057	139	347	116		
13C6-Chrysene											
234.1140	46:19	46:21	-2	1.309	7108072	1181389	179	447	6600		
Chrysene											
228.0939	46:19	46:21	-3	1.000	328198	43422	139	347	312		
13C6-Benzo(b)fluoranthene											
258.1140	54:36	55:00	-2	0.985	7433738	2049556	57	142	35957		
Benzo[b]fluoranthene											
252.0939	54:37	54:38	-1	1.000	260883	55433	189	472	293		
13C12-Benzo(j)fluoranthene											
264.1336	54:38	55:02	-2	0.985	4556673	1196849	127	317	9424		
13C6-Benzo(k)fluoranthene											
258.1140	54:43	55:07	-2	0.987	8319639	1989054	57	142	34896		
Benzo[k]fluoranthene											
252.0939	54:44	54:43	-1	1.000	78926	15796	189	472	84		
Benzo(e)pyrene-d12											
264.1692	55:28	55:30	-2		2762758	931999	121	302	7702		
Benzo[e]pyrene											
252.0939	55:33	55:55	-1	1.000	708830	236234	189	472	1250		
13C4-Benzo(e)pyrene											
256.1073	55:33	55:56	-1	1.002	6870614	2200978	165	412	13339		
13C4-Benzo(a)pyrene											
256.1073	55:41	56:05	-2	1.004	7256320	2168801	165	412	13144		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:41	55:43	-2	1.000	199594	51529	189	472	273		
Perylene-d12											
264.1692	55:51	56:15	-2	1.007	4768736	1722479	121	302	14235		
Perylene											
252.0939	55:55	55:55	-2	1.001	55350	6758	189	472	36		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:59	58:24	-2	1.046	5151341	1762089	81	202	21754		
Indeno[1,2,3-cd]pyrene											
276.0939	57:59	57:59	-2	1.000	329259	100889	118	295	855		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:03	58:03	-2	1.047	5603389	1451302	47	117	30879		M
Dibenz(a,h)anthracene											
278.1096	58:03	58:03	-2	1.000	6838	1772	54	135	33		M
13C12-Benzo(ghi)perylene											
288.1342	58:28	58:28	-2	1.054	6052551	1800079	51	127	35296		M
Benzo[g,h,i]perylene											
276.0939	58:28	58:28	-2	1.000	2248515	660654	118	295	5599		M

QC Flag Legend

Processing Flags

Review Flags

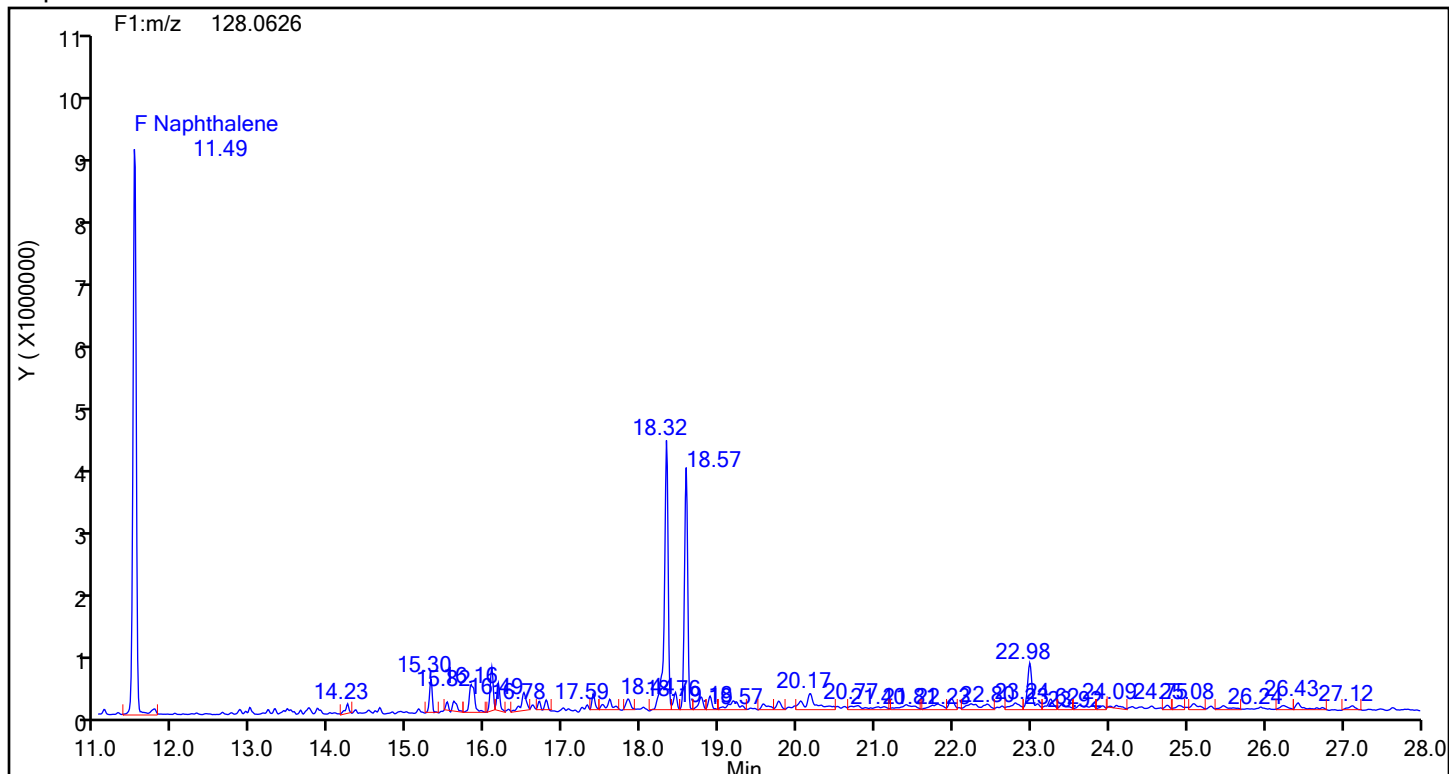
M - Manually Integrated

a - User Assigned ID

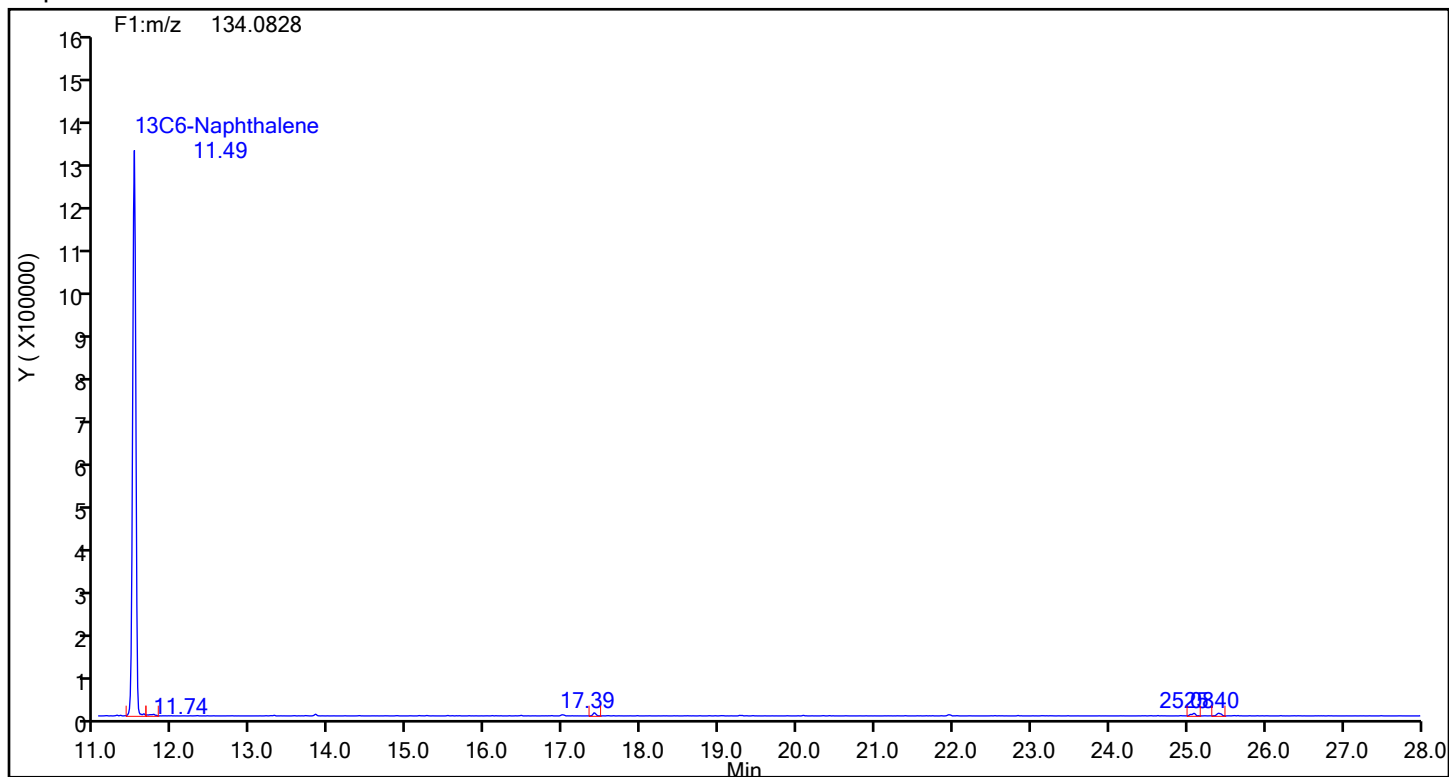
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87947 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



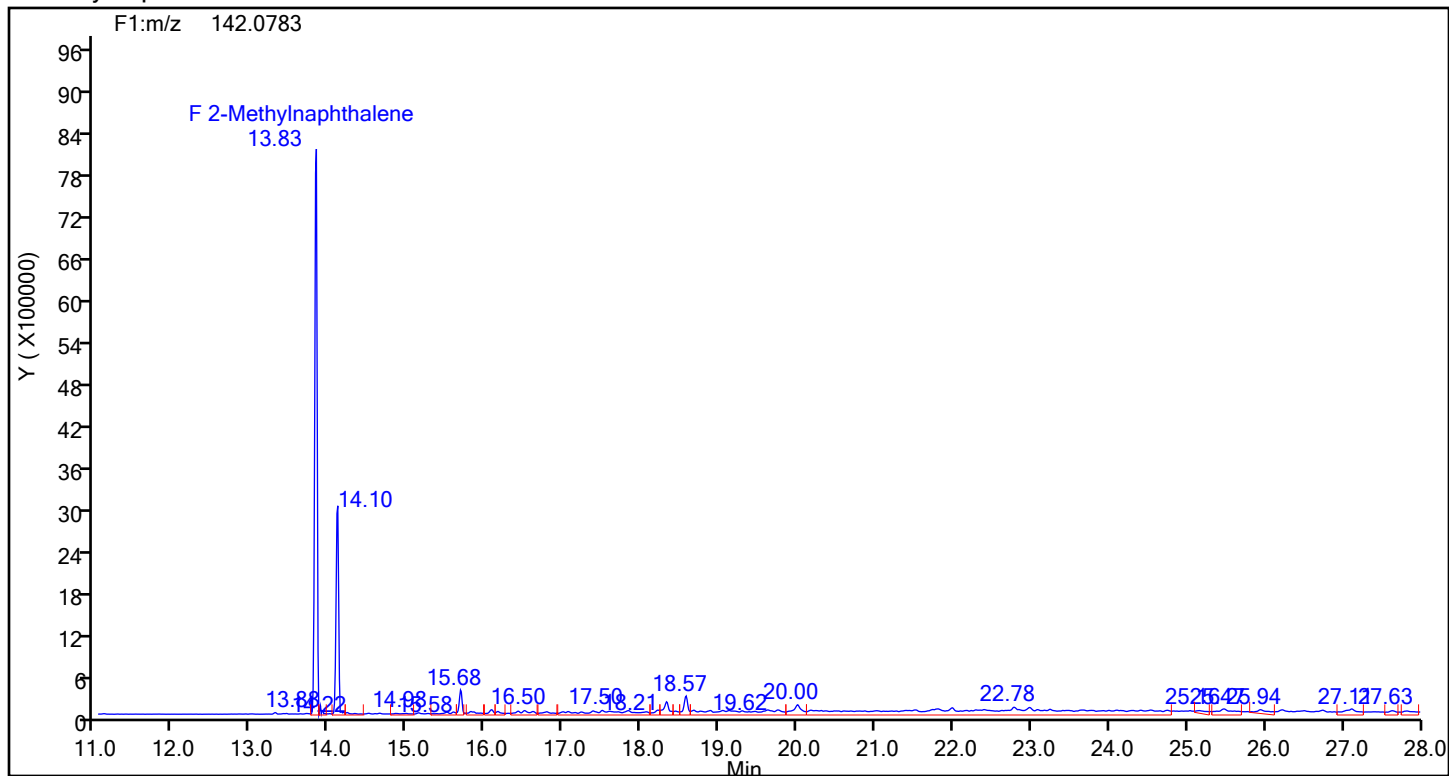
Naphthalene Standards



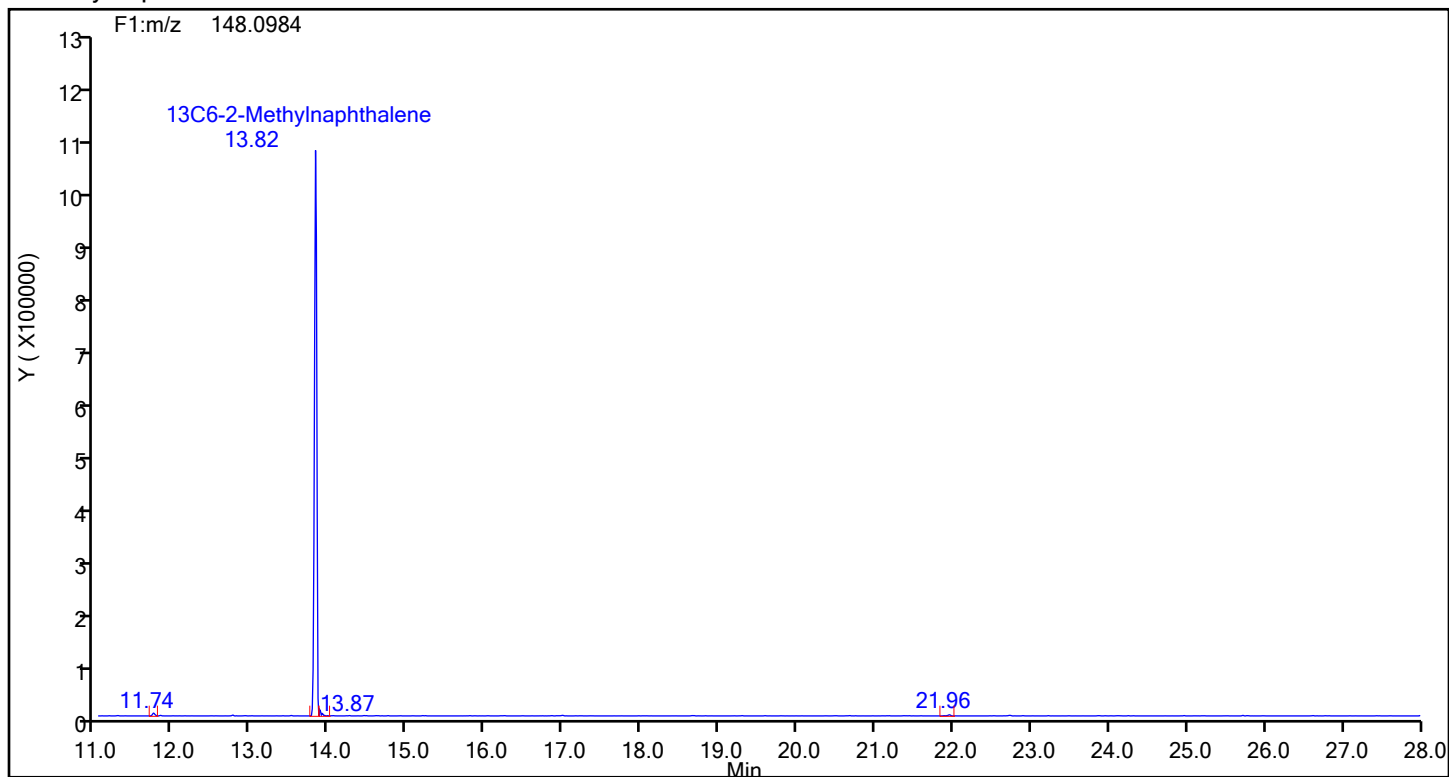
Eurofins Knoxville

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Injection Date: 21-Jun-2024 21:29:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87947 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



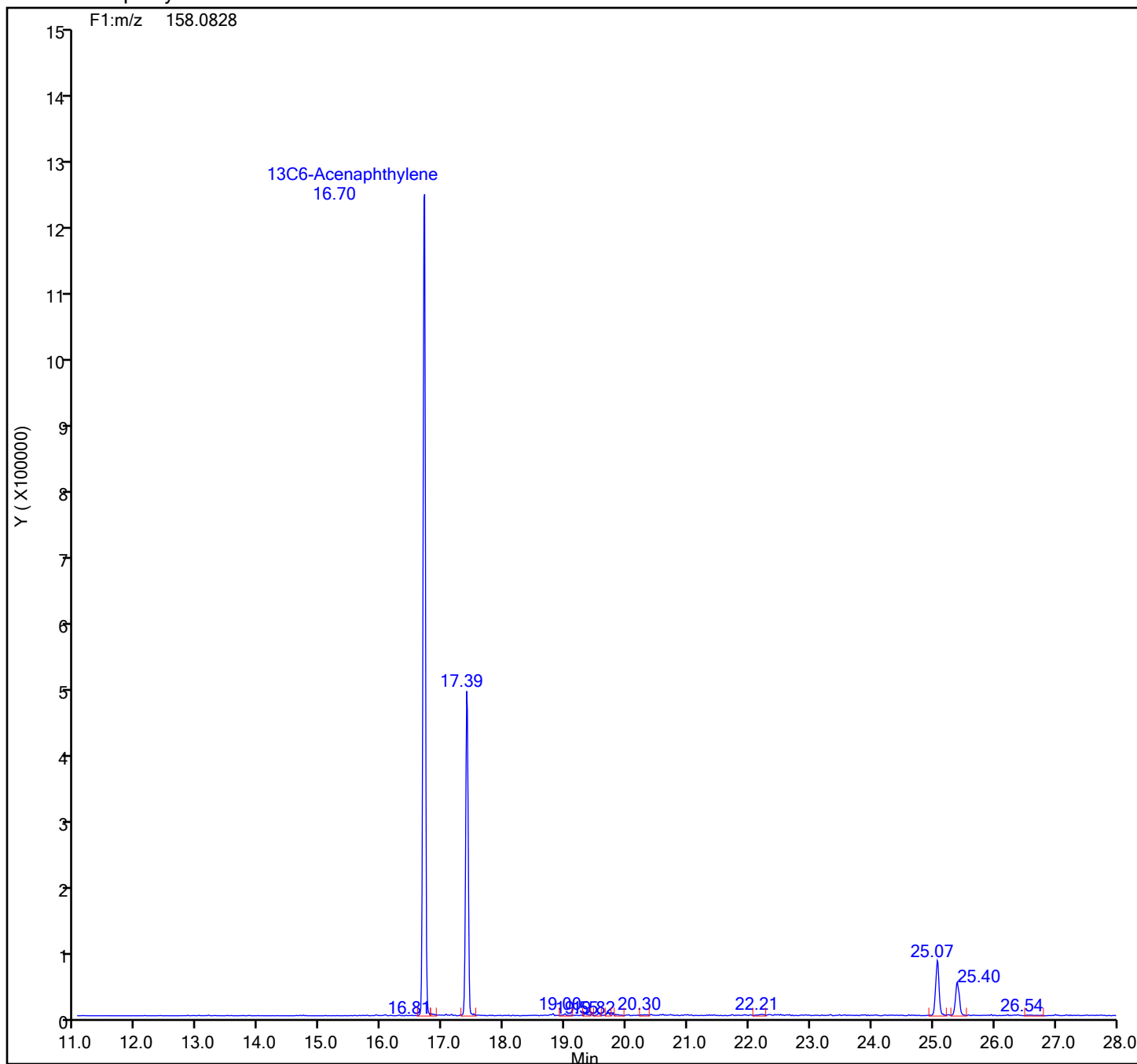
2-Methylnaphthalene Standards



Eurofins Knoxville

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Injection Date: 21-Jun-2024 21:29:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87947 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

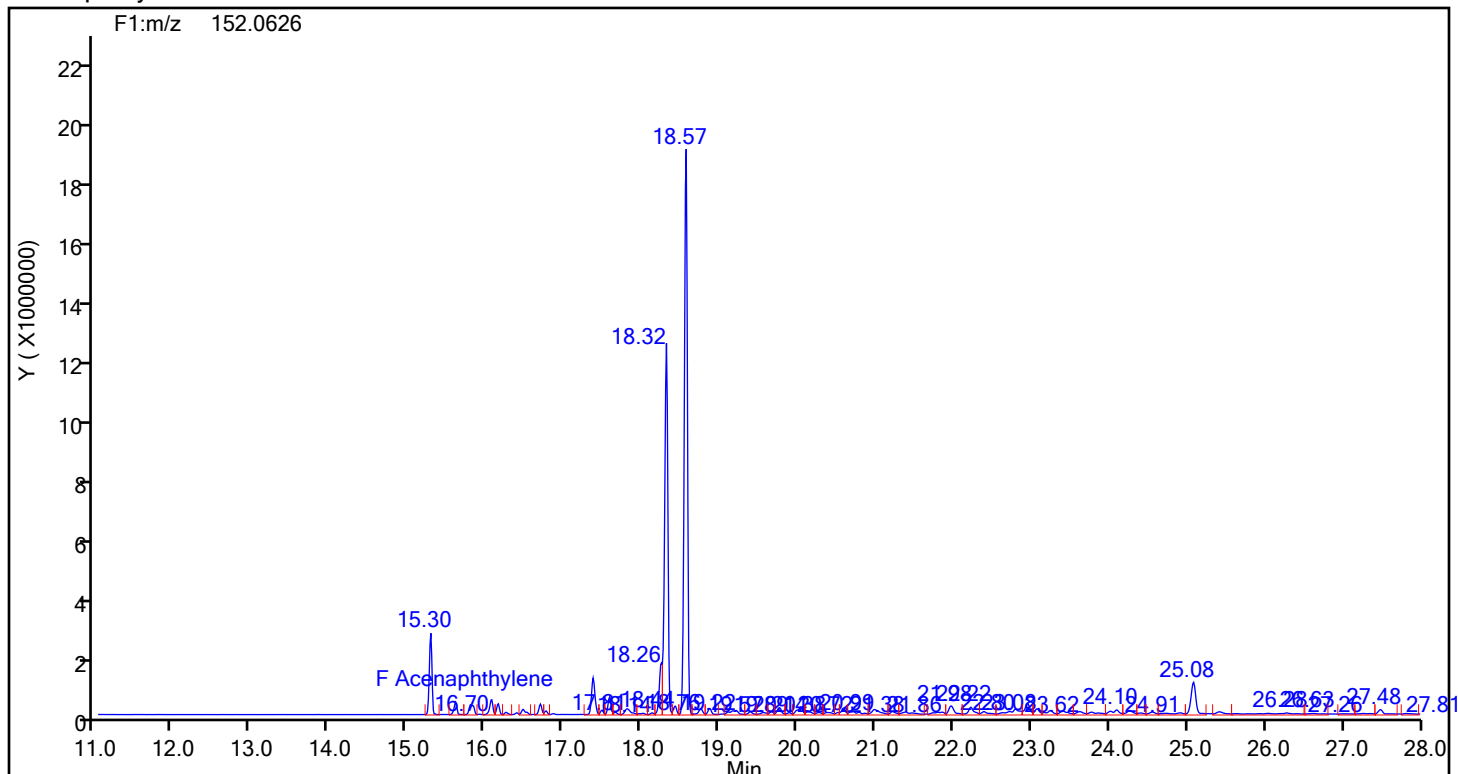
13C6-Acenaphthylene Standards



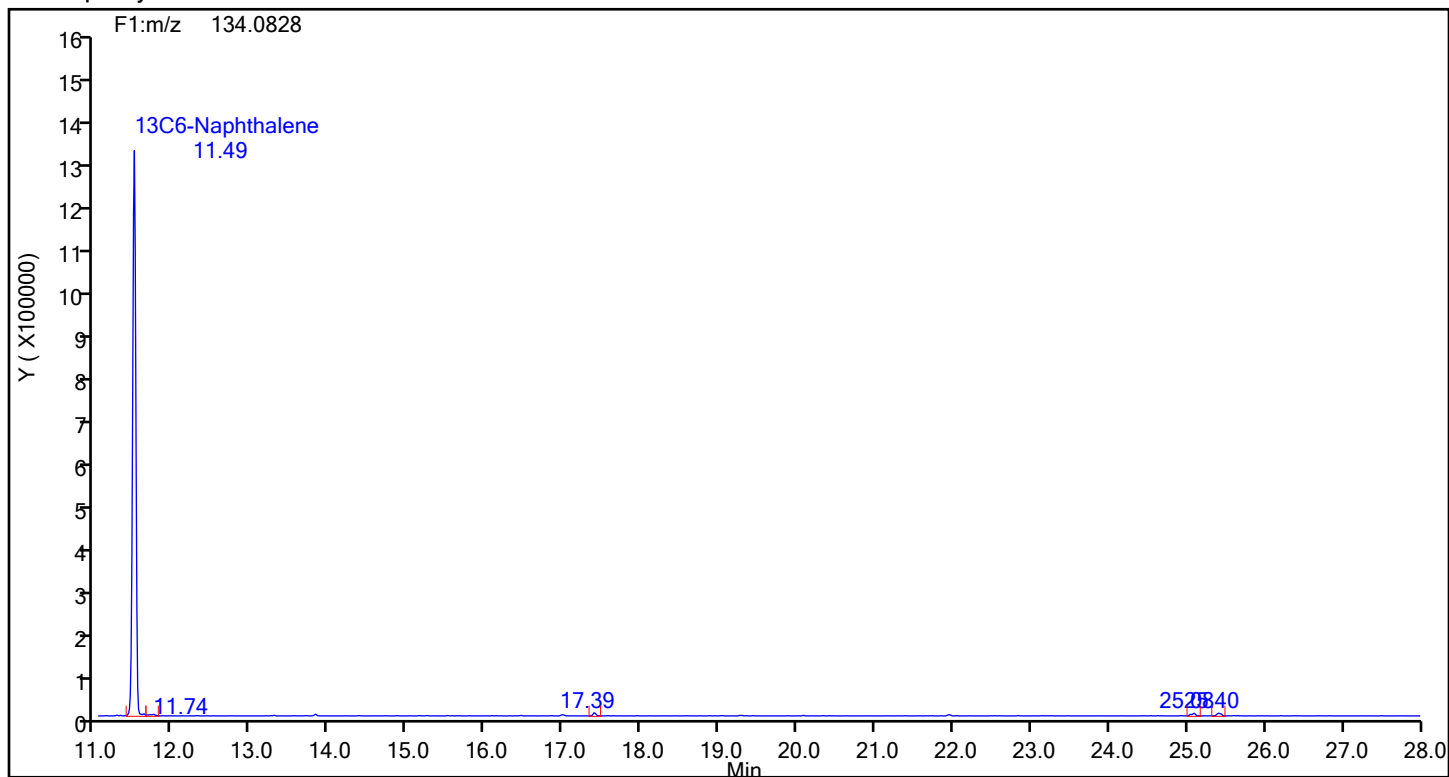
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d
Injection Date: 21-Jun-2024 21:29:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87947 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

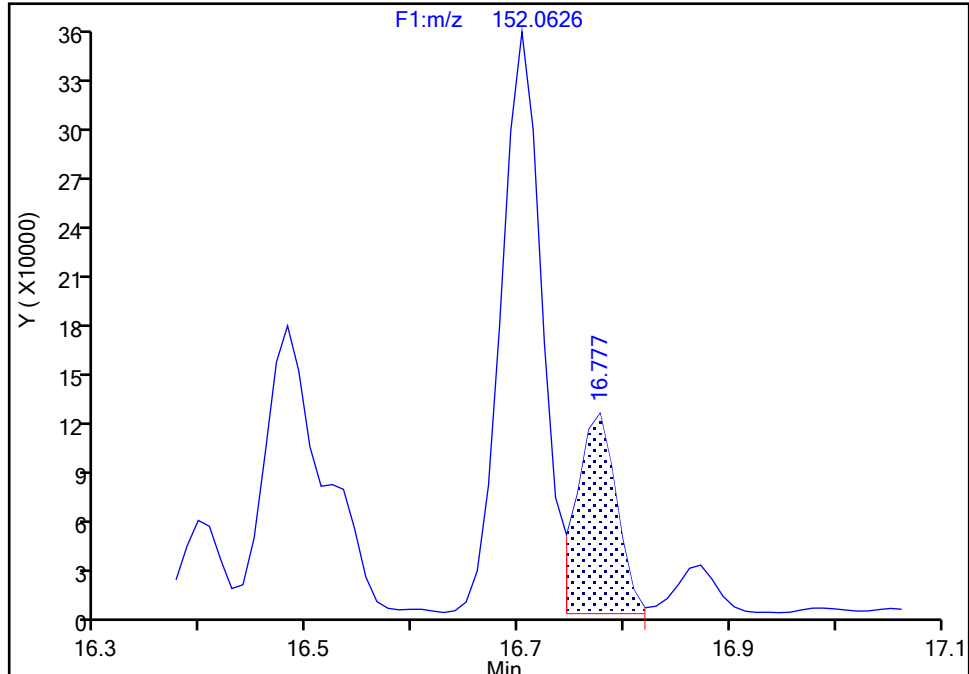
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d
Injection Date: 21-Jun-2024 21:29:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-2-D Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Acenaphthylene, CAS: 208-96-8

Signal: 1

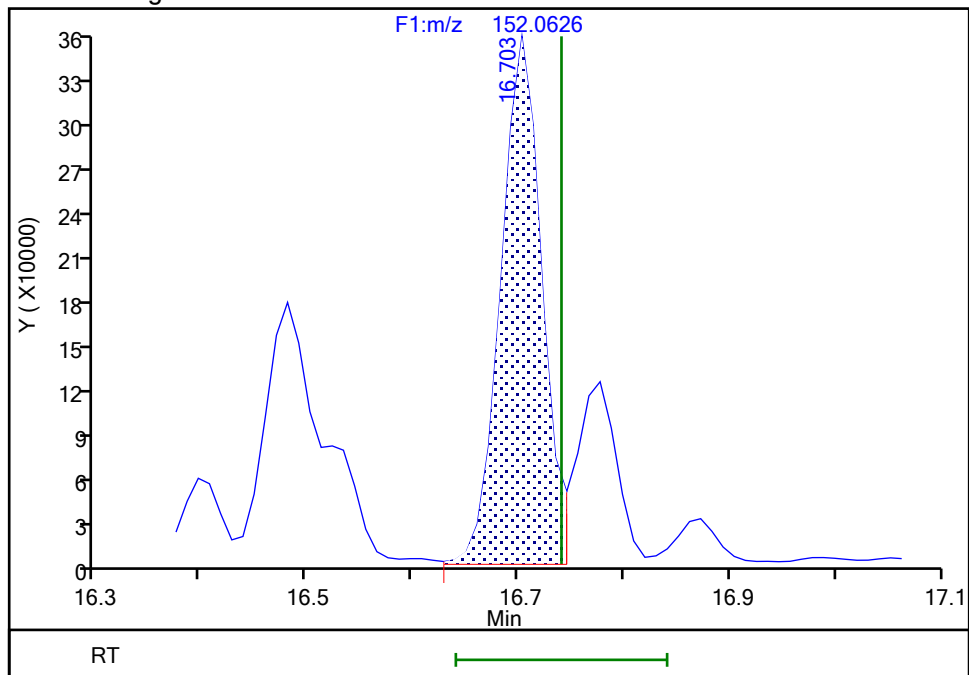
RT: 16.78
Area: 300425
Amount: 6.888957
Amount Units: pg/ul

Processing Integration Results



RT: 16.70
Area: 922379
Amount: 21.150801
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 10:15:30 -04:00:00 (UTC)

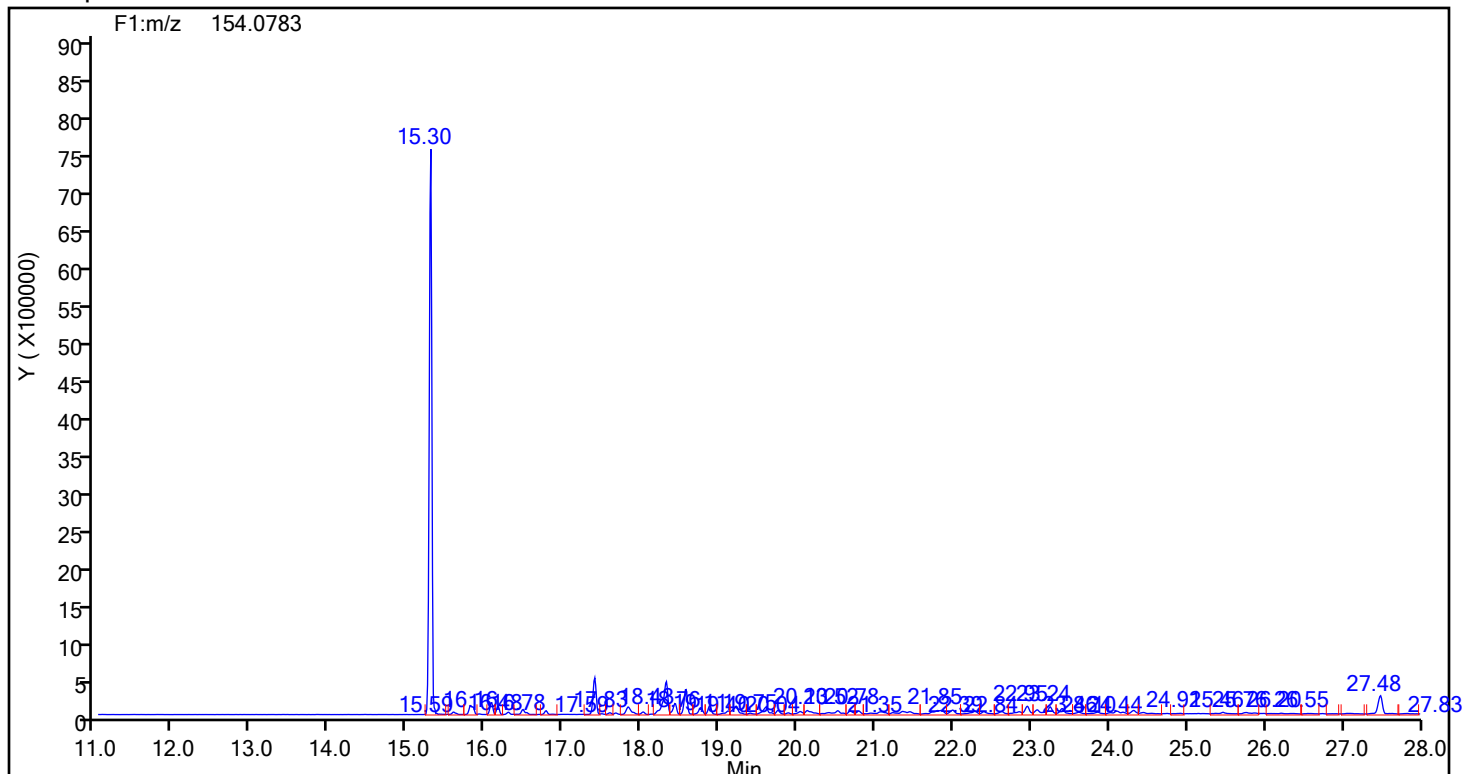
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

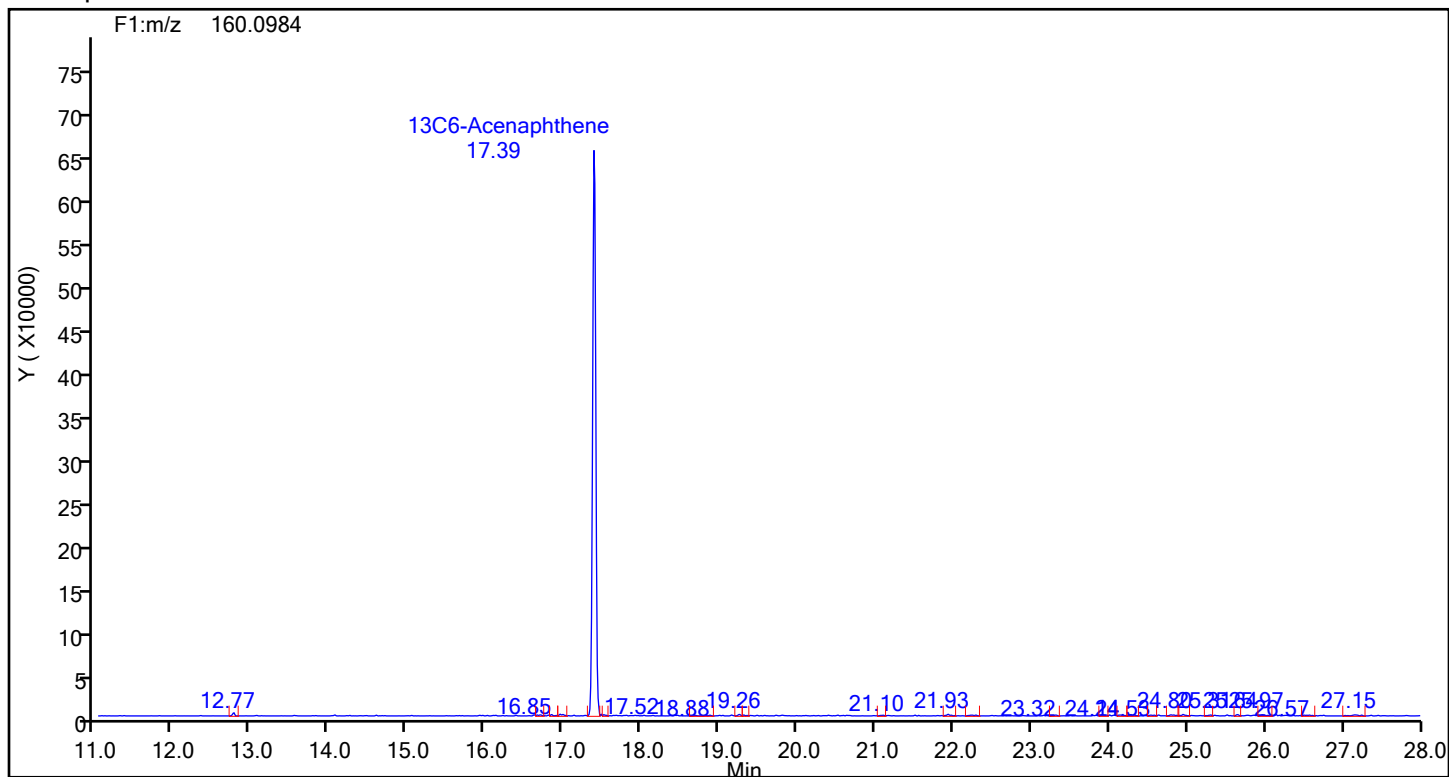
Eurofins Knoxville

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Injection Date: 21-Jun-2024 21:29:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87947 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



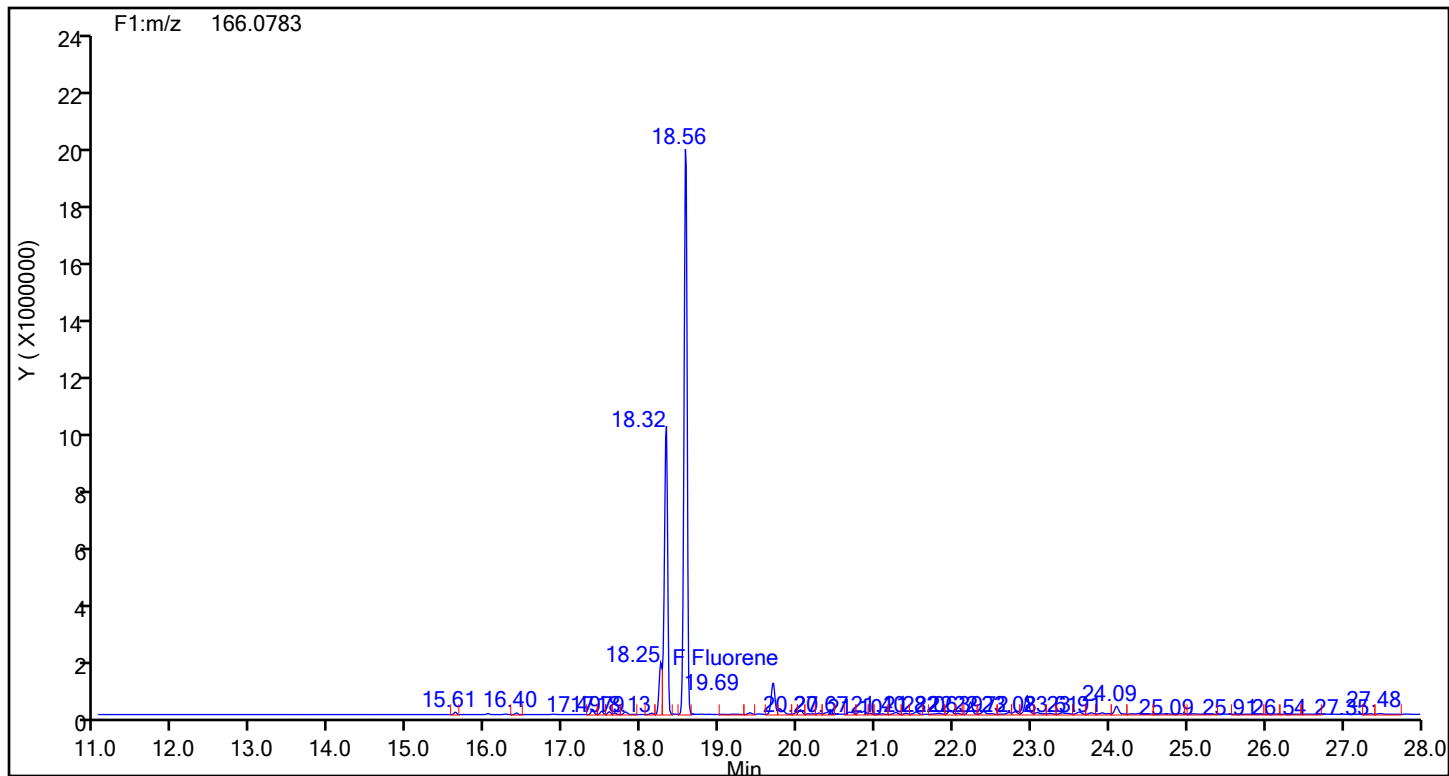
Acenaphthene Standards



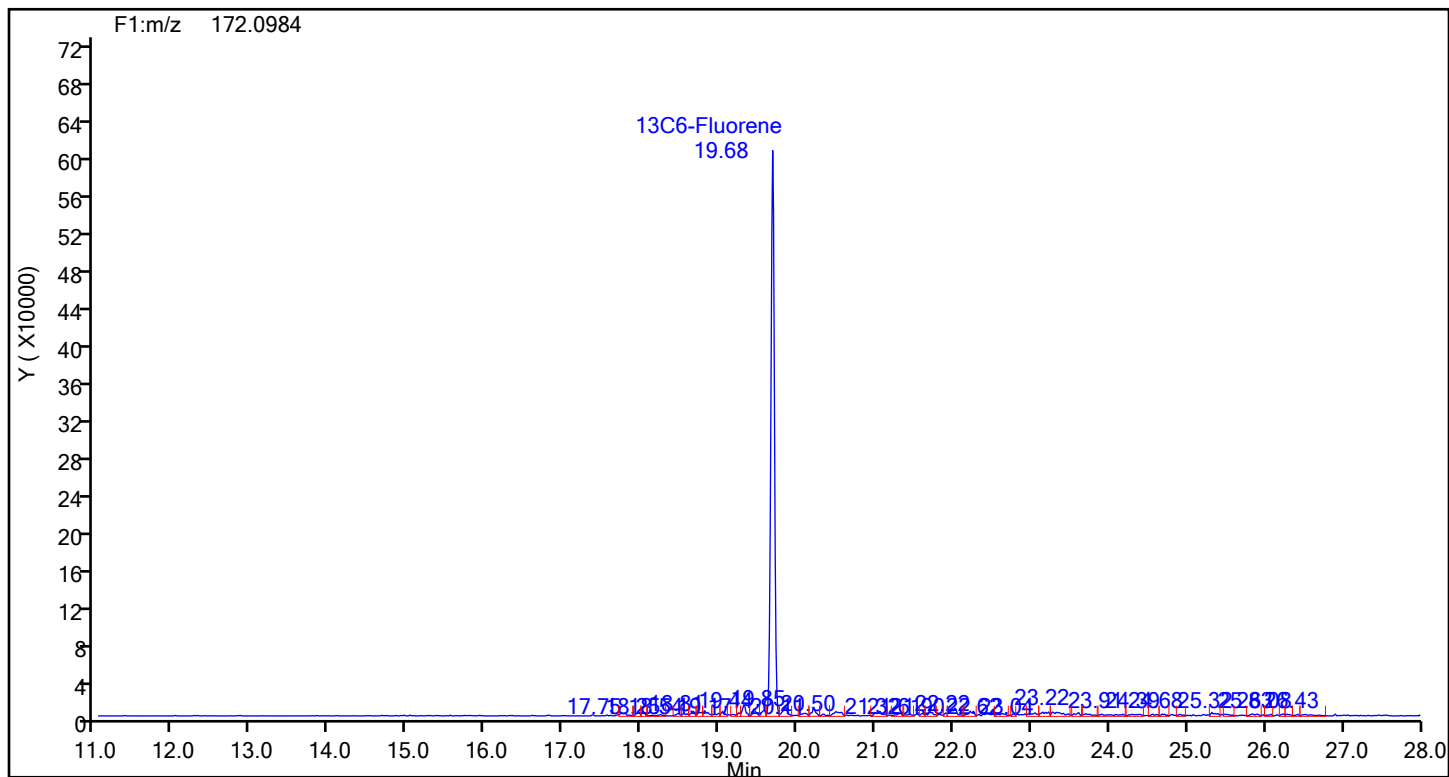
Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d		
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Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23_PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:	M23-NO.3 BOILER-RUN 2 COMBINED		
Worklist#:	87947	Sample Line#:	8
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Fluorene			

Fluorene

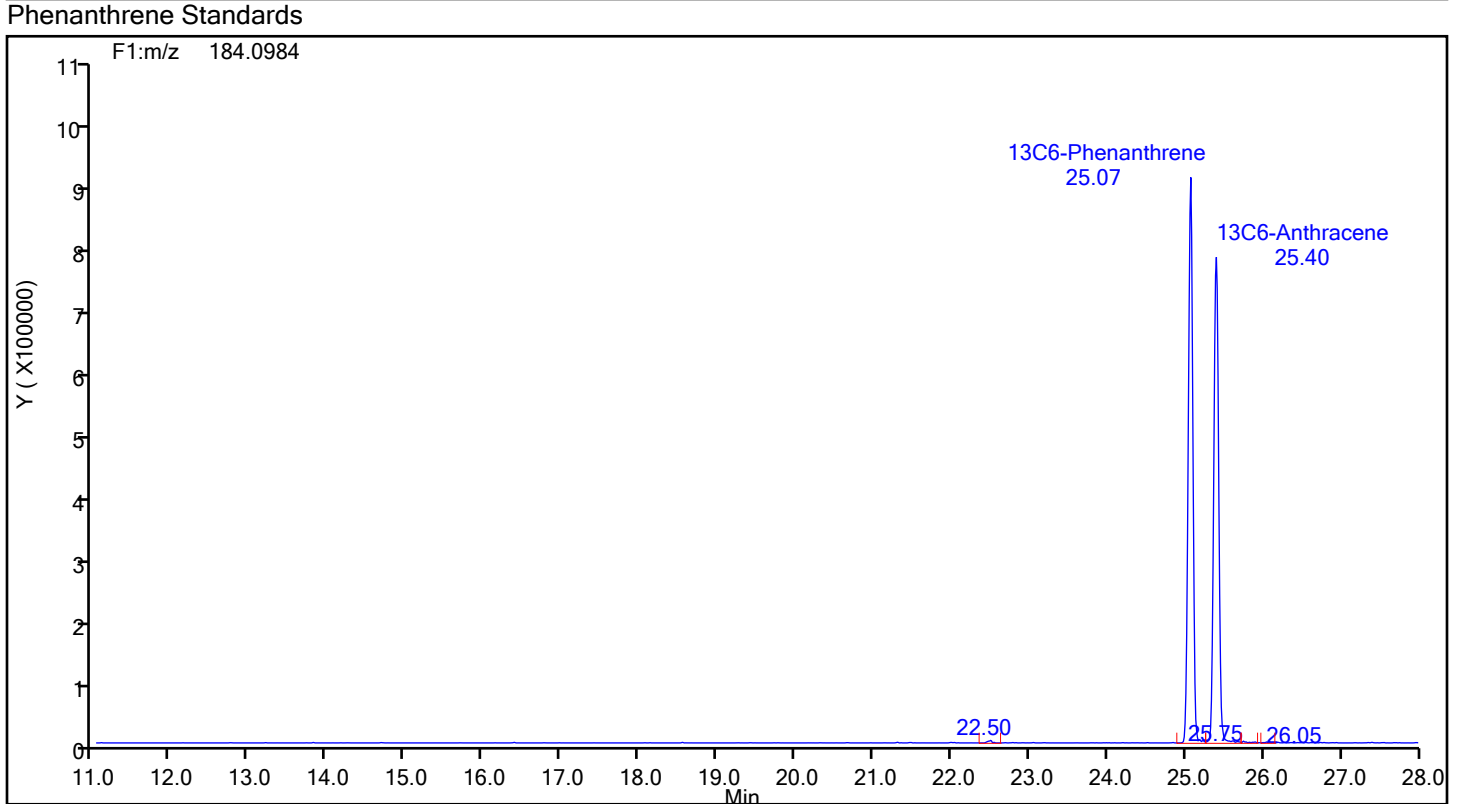
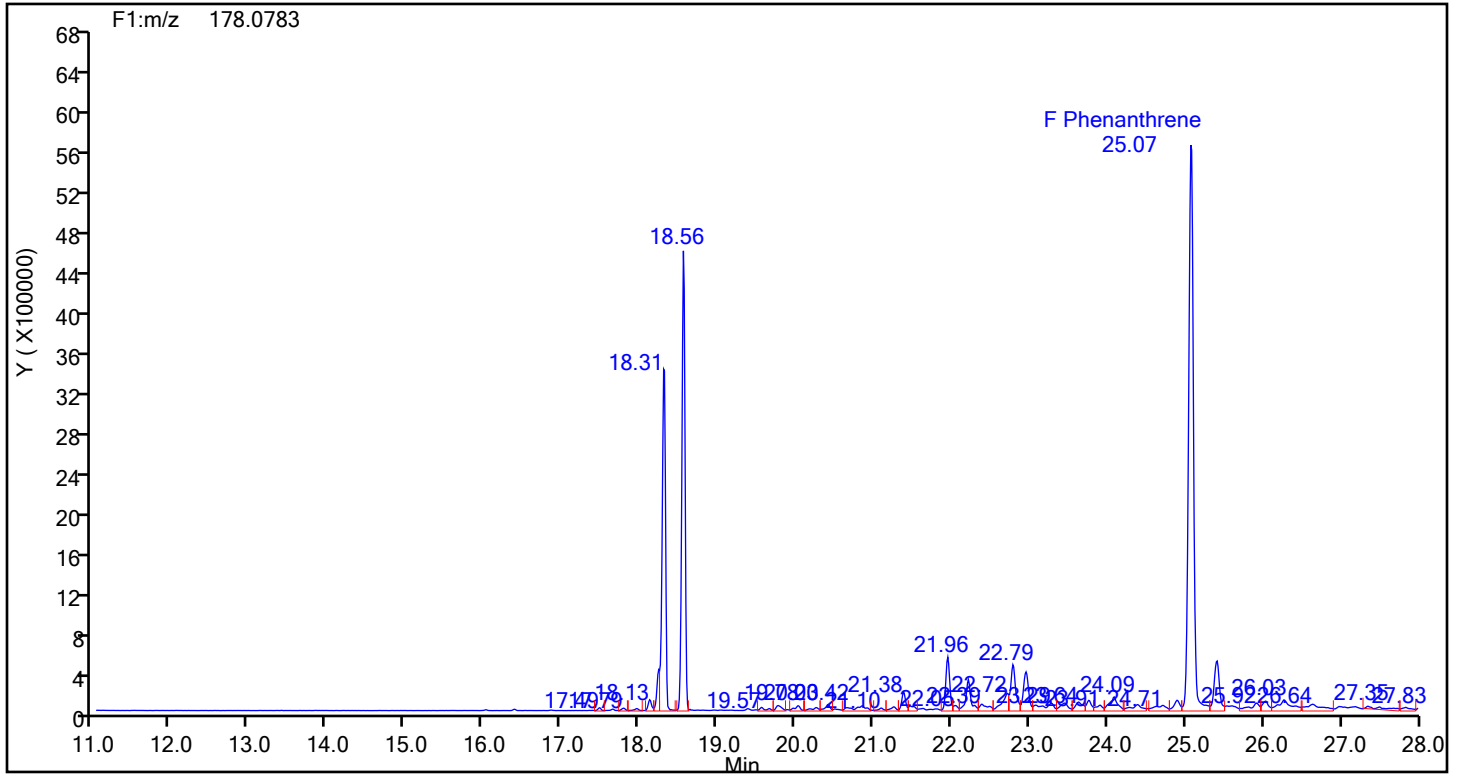


Fluorene Standards



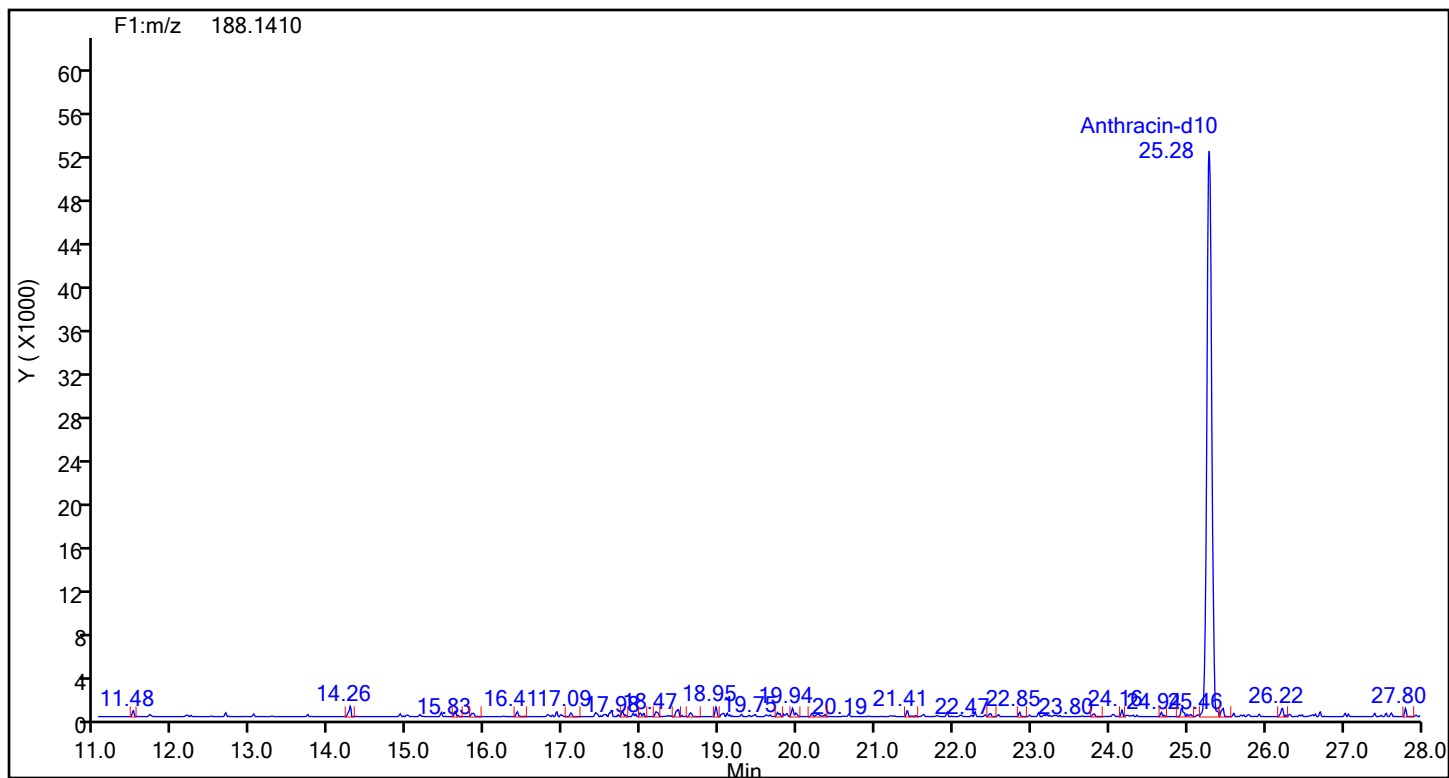
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d
Injection Date: 21-Jun-2024 21:29:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87947 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene

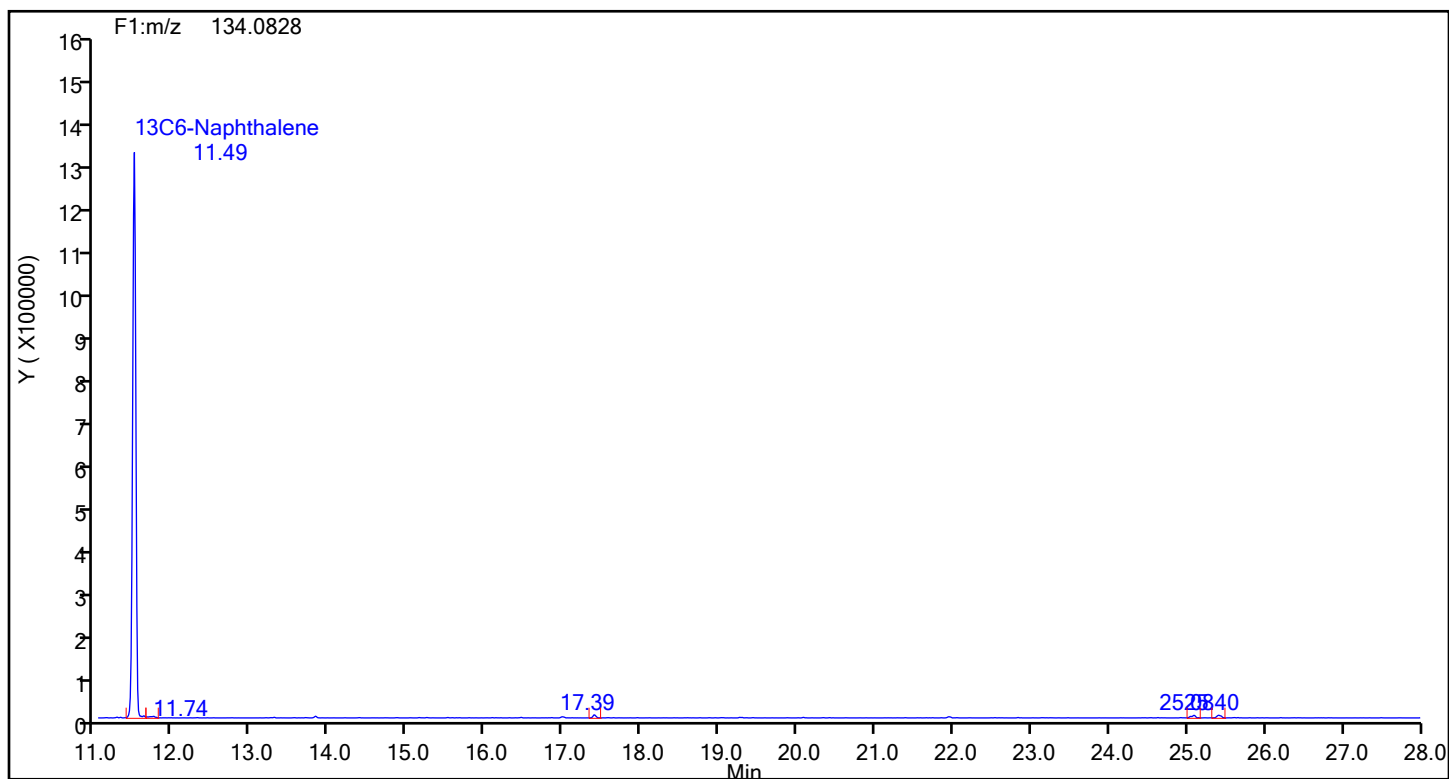


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d
Injection Date: 21-Jun-2024 21:29:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87947 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

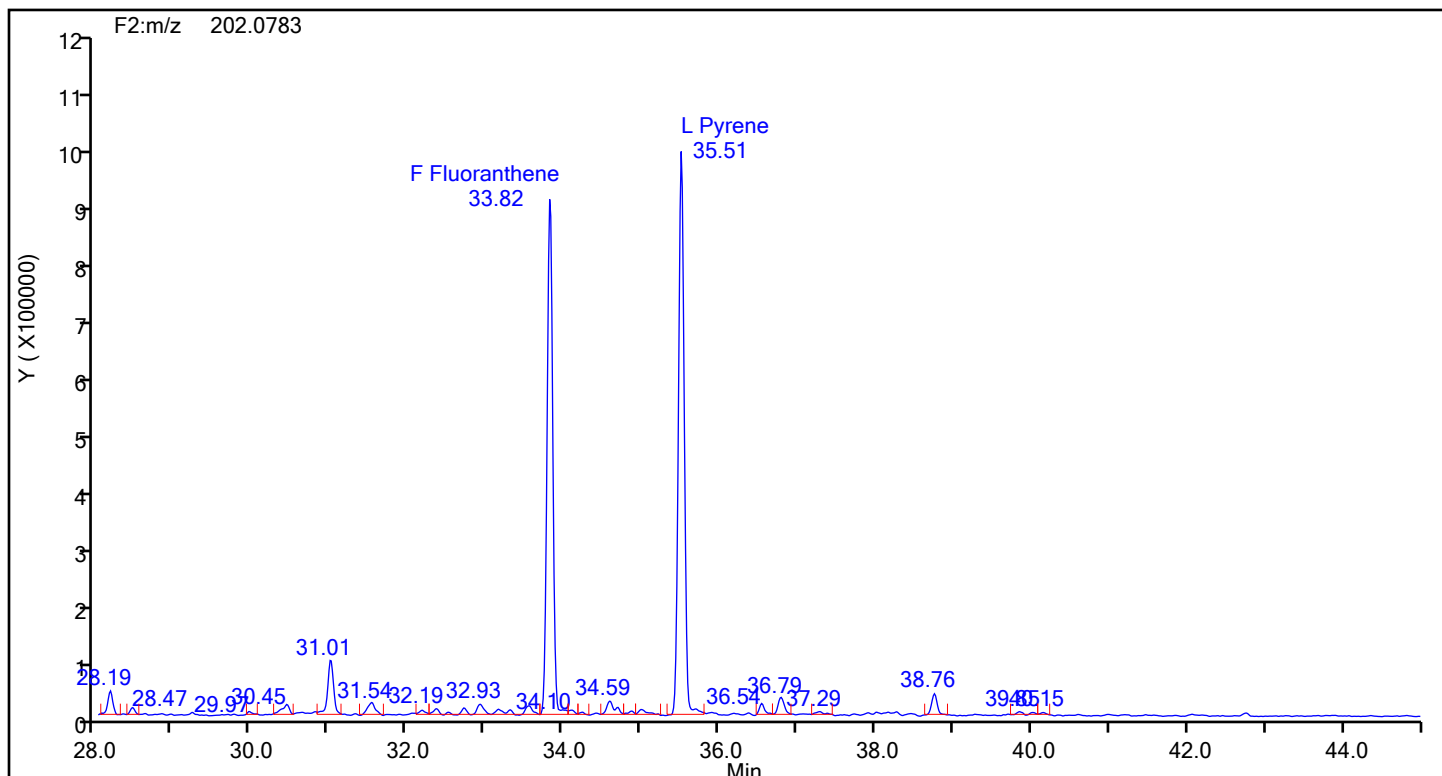


Anthracin-d10 Standards

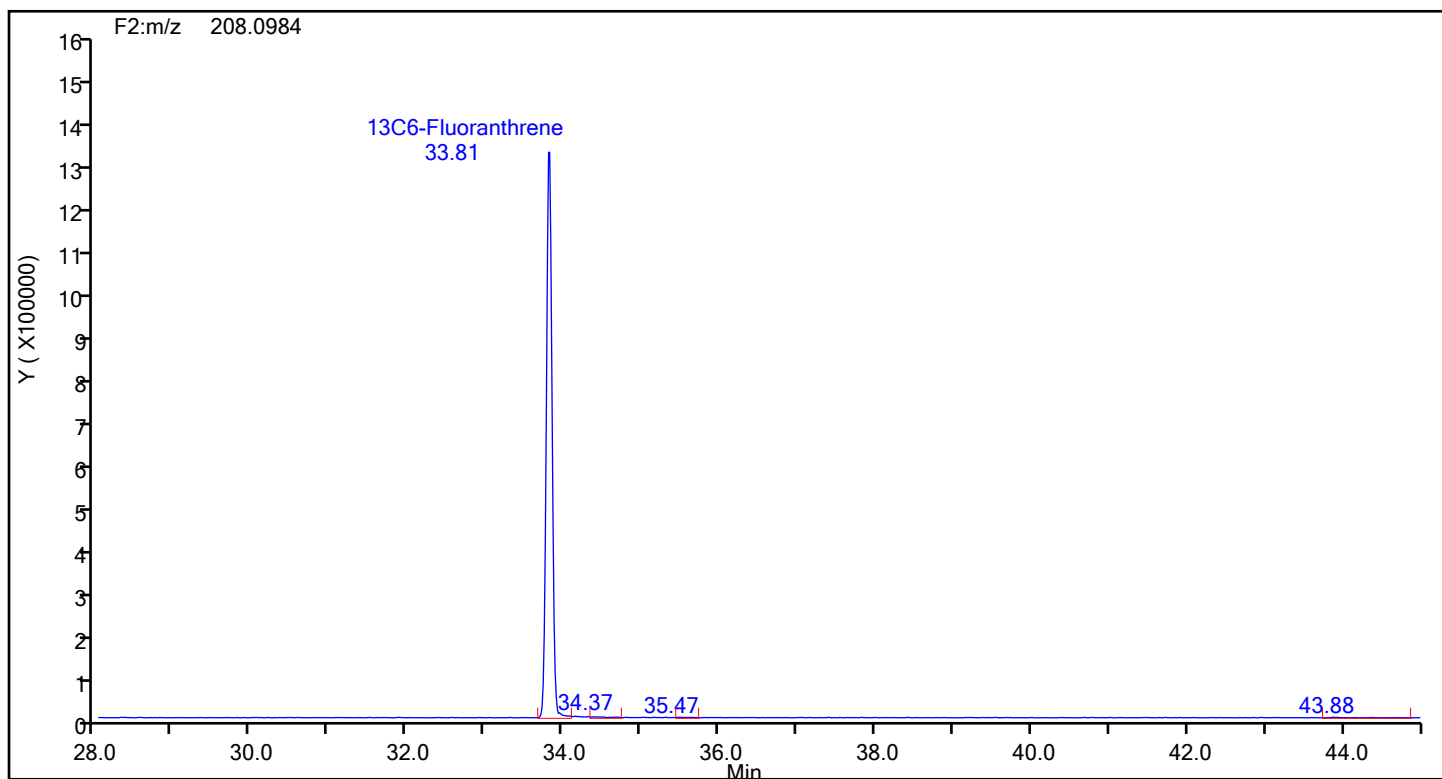


Eurofins Knoxville

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Injection Date: 21-Jun-2024 21:29:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87947 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



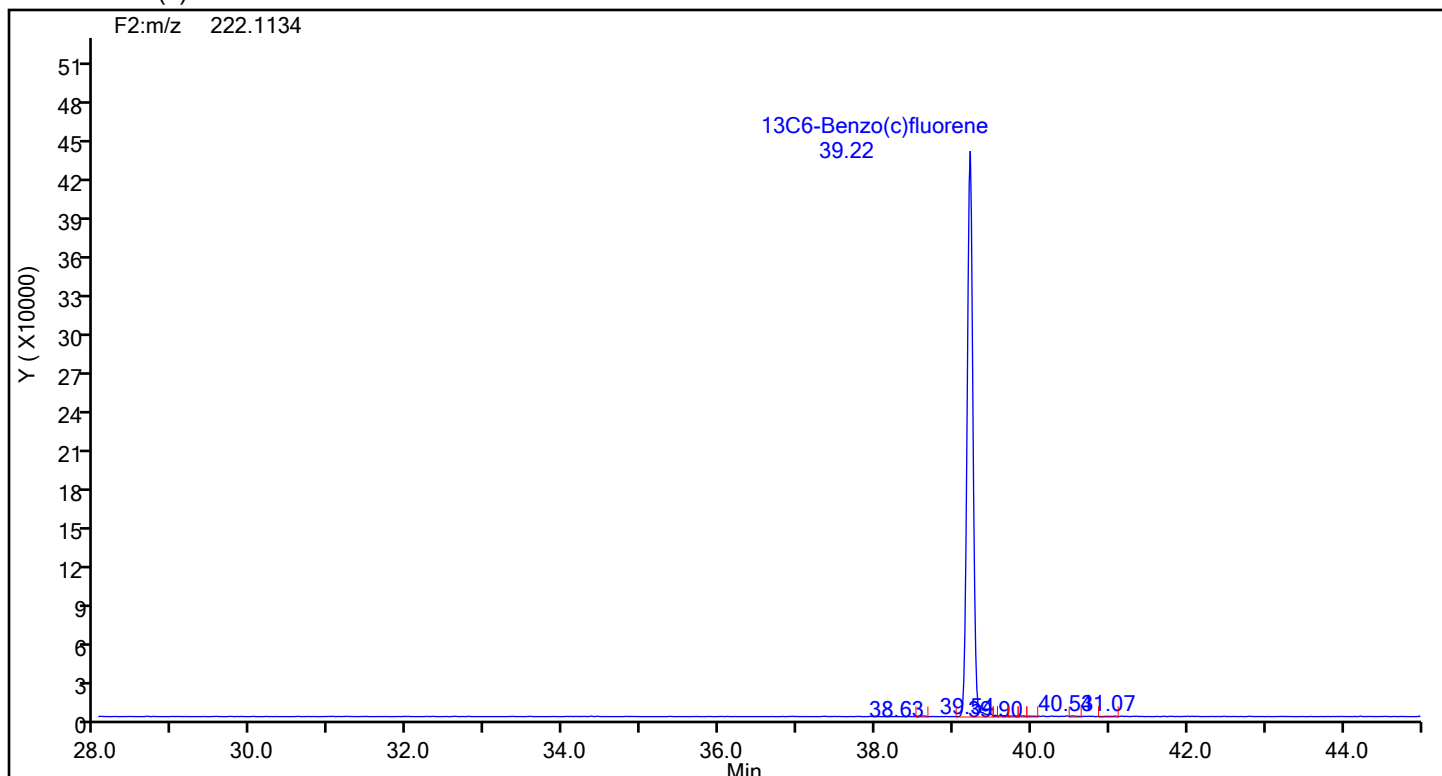
Fluoranthene Standards



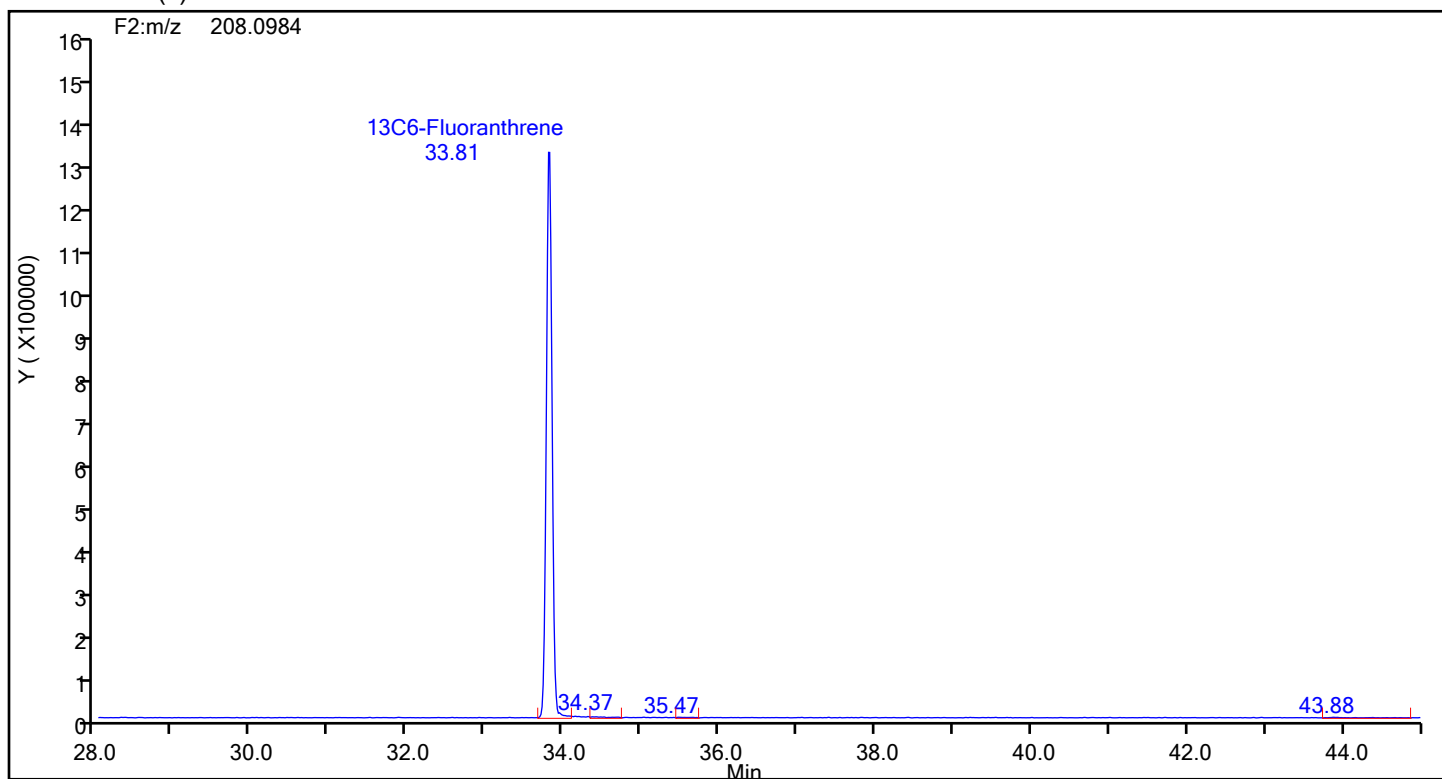
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d
Injection Date: 21-Jun-2024 21:29:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87947 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



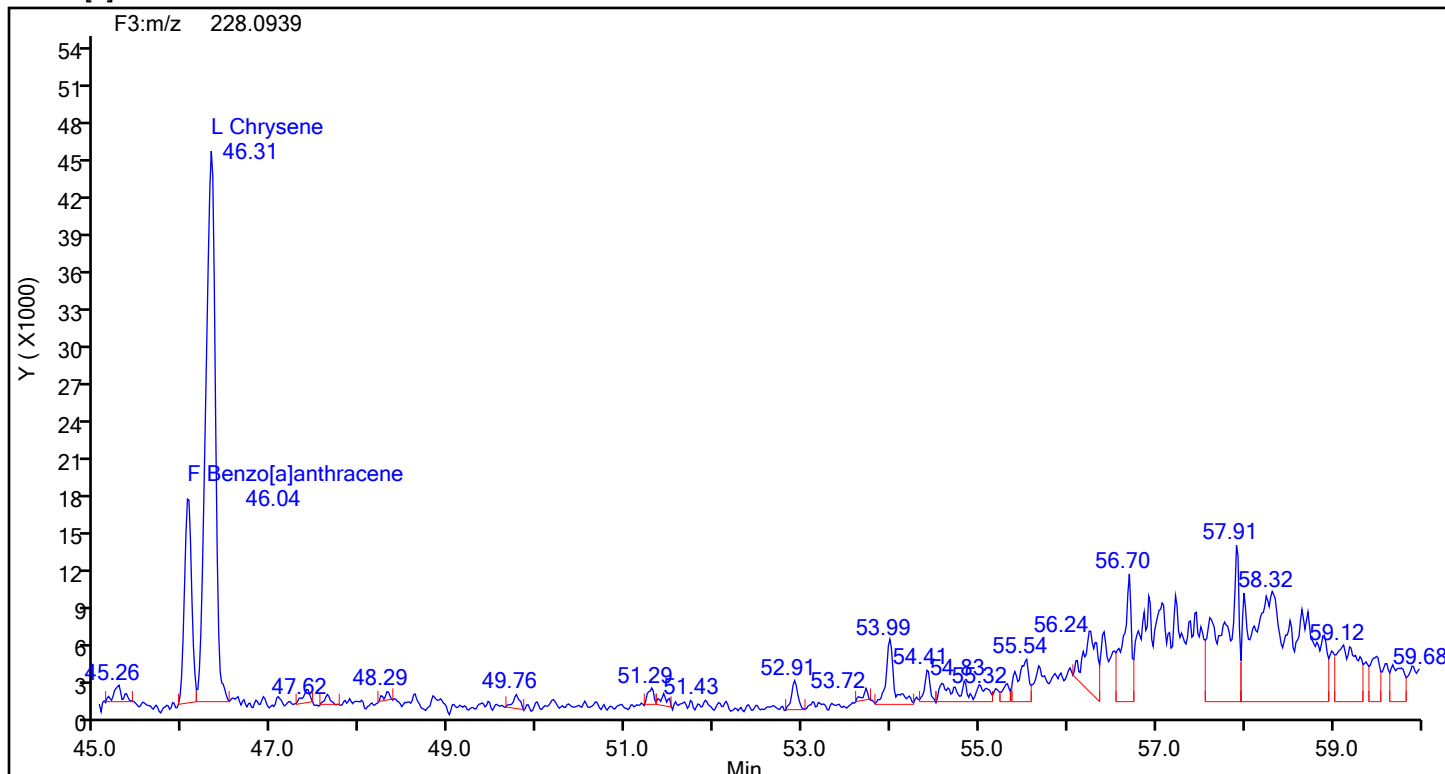
13C6-Benzo(c)fluorene Standards



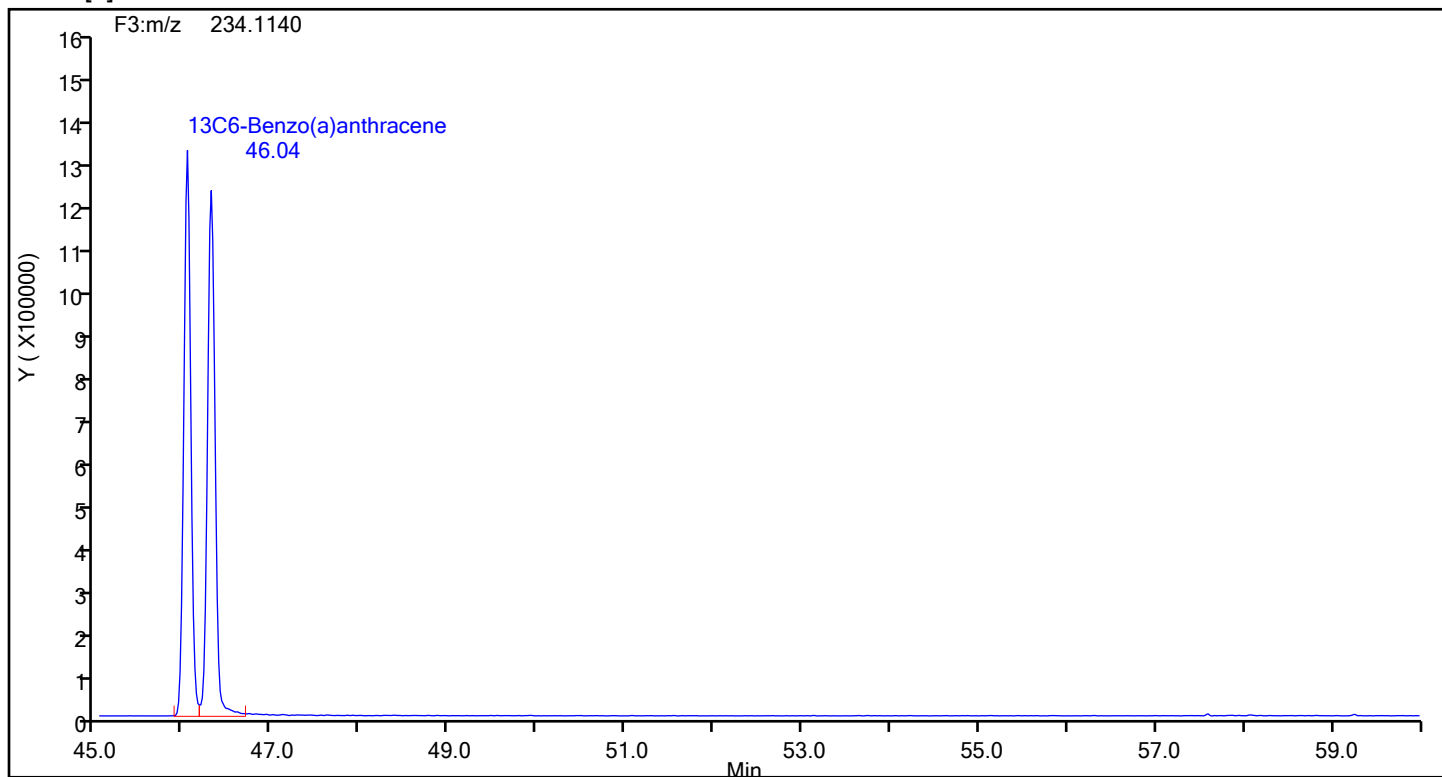
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d
Injection Date: 21-Jun-2024 21:29:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87947 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



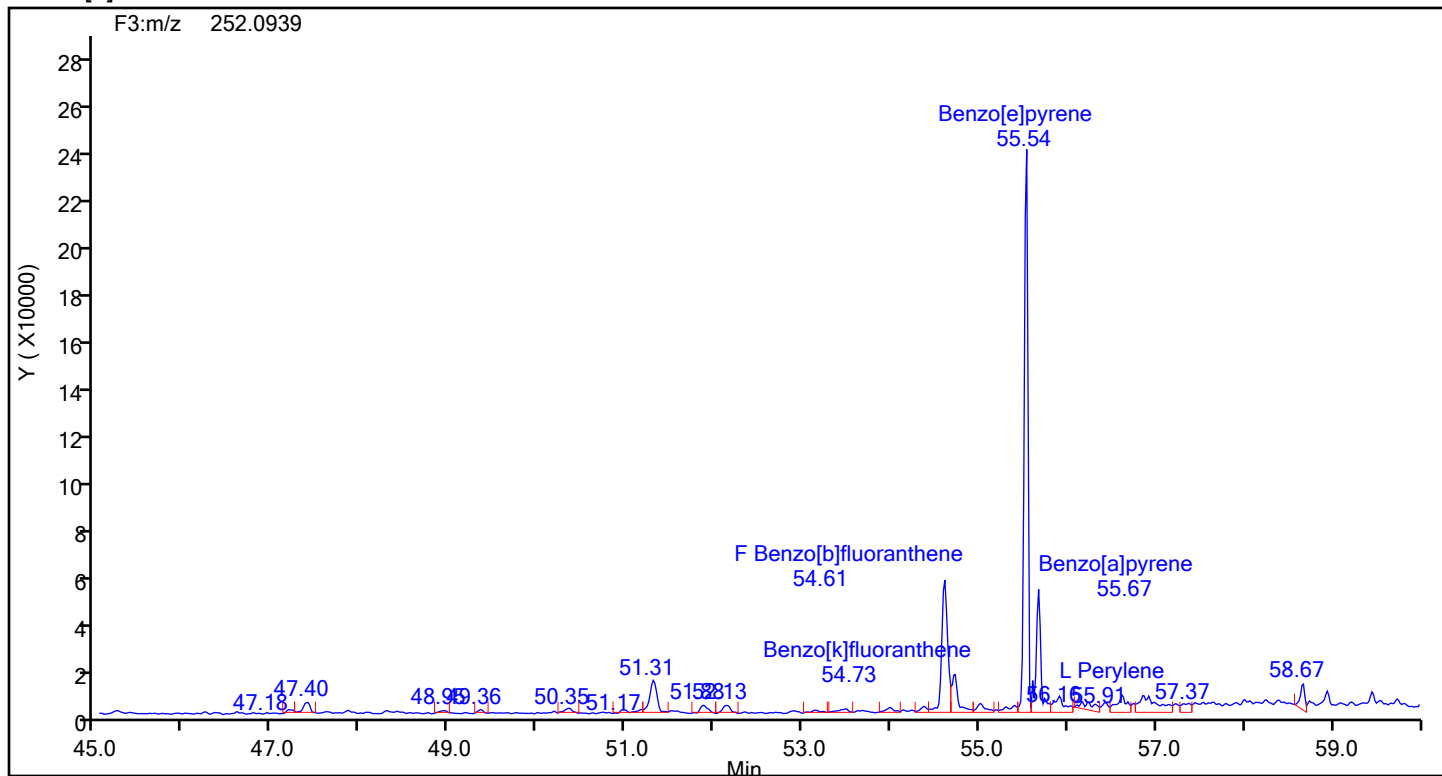
Benzo[a]anthracene Standards



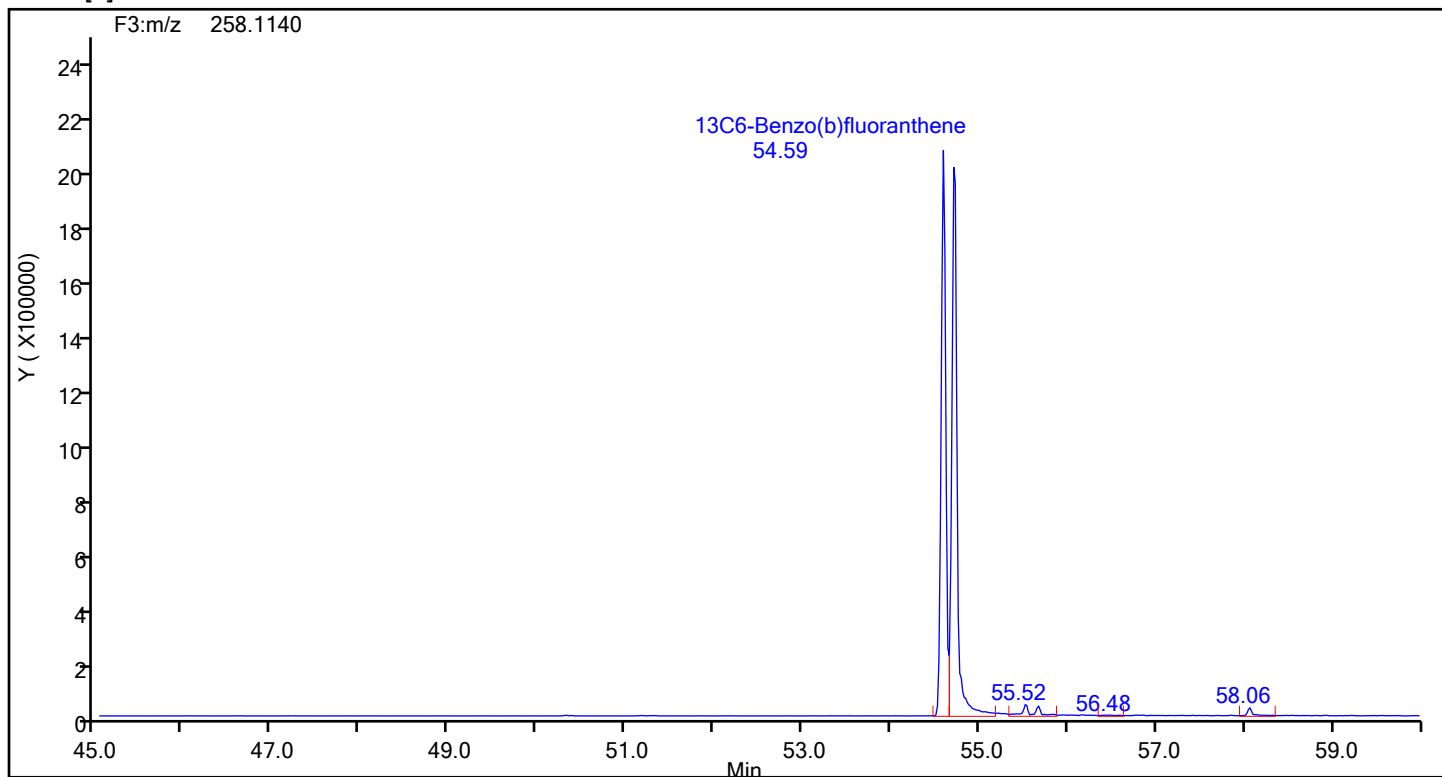
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87947 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d

Injection Date: 21-Jun-2024 21:29:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 2 COMBINED

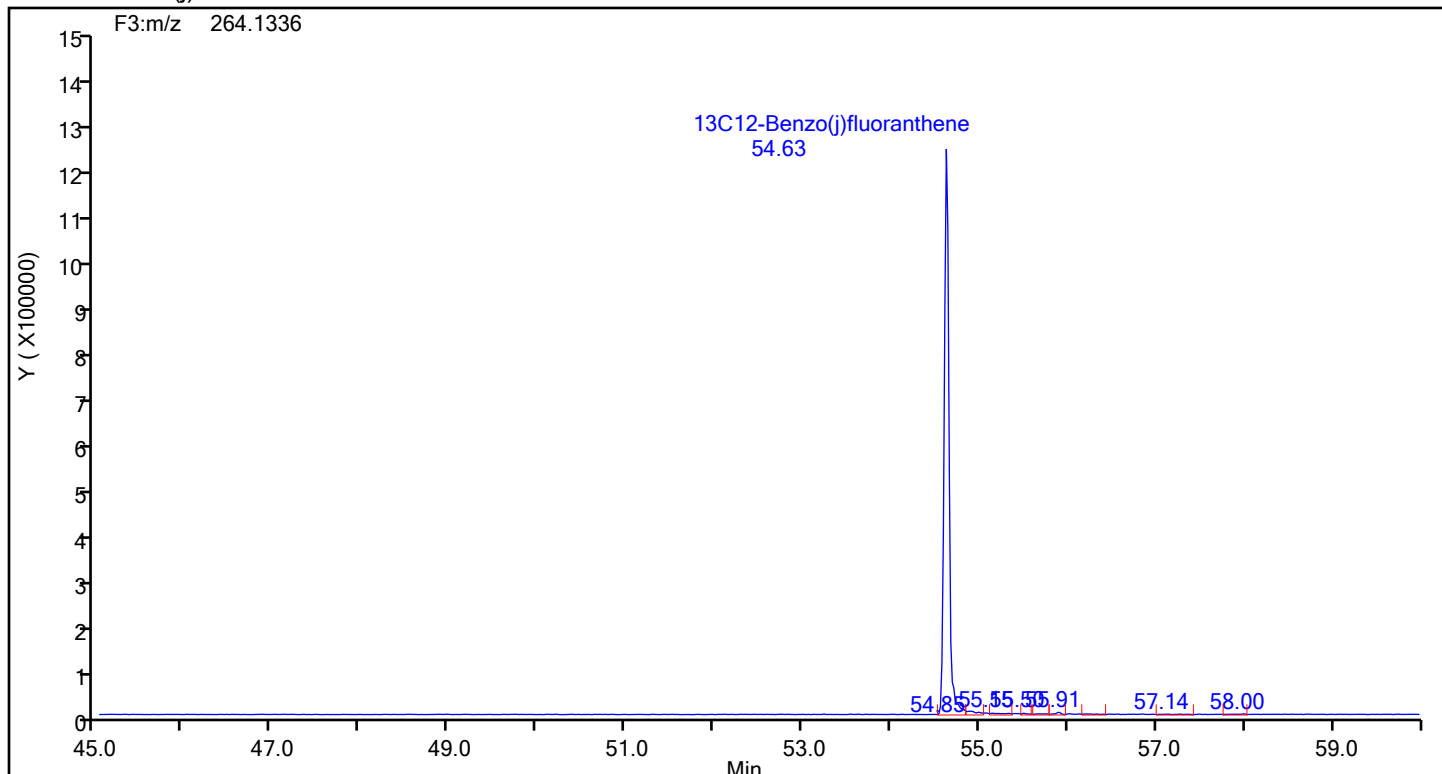
Worklist#: 87947

Sample Line#: 8

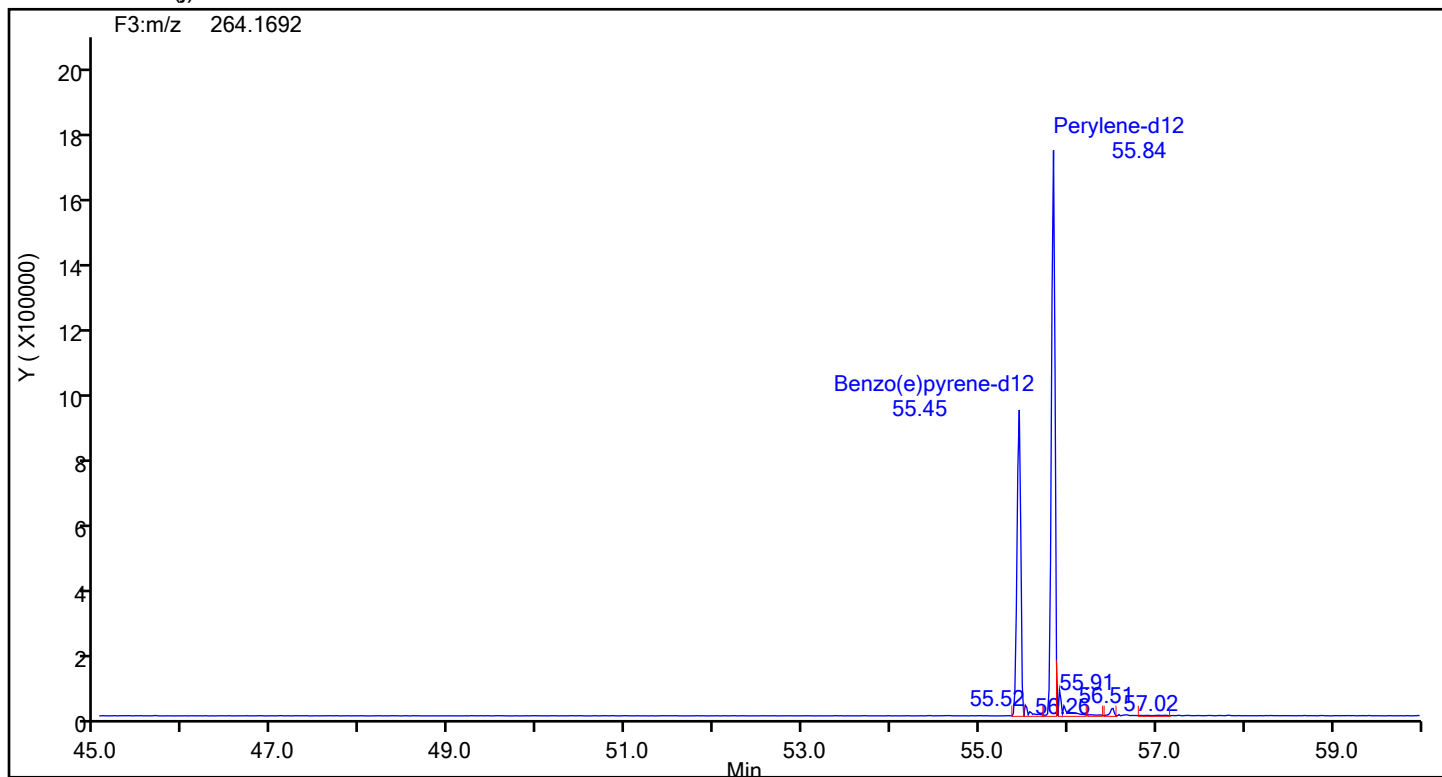
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d

Injection Date: 21-Jun-2024 21:29:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 2 COMBINED

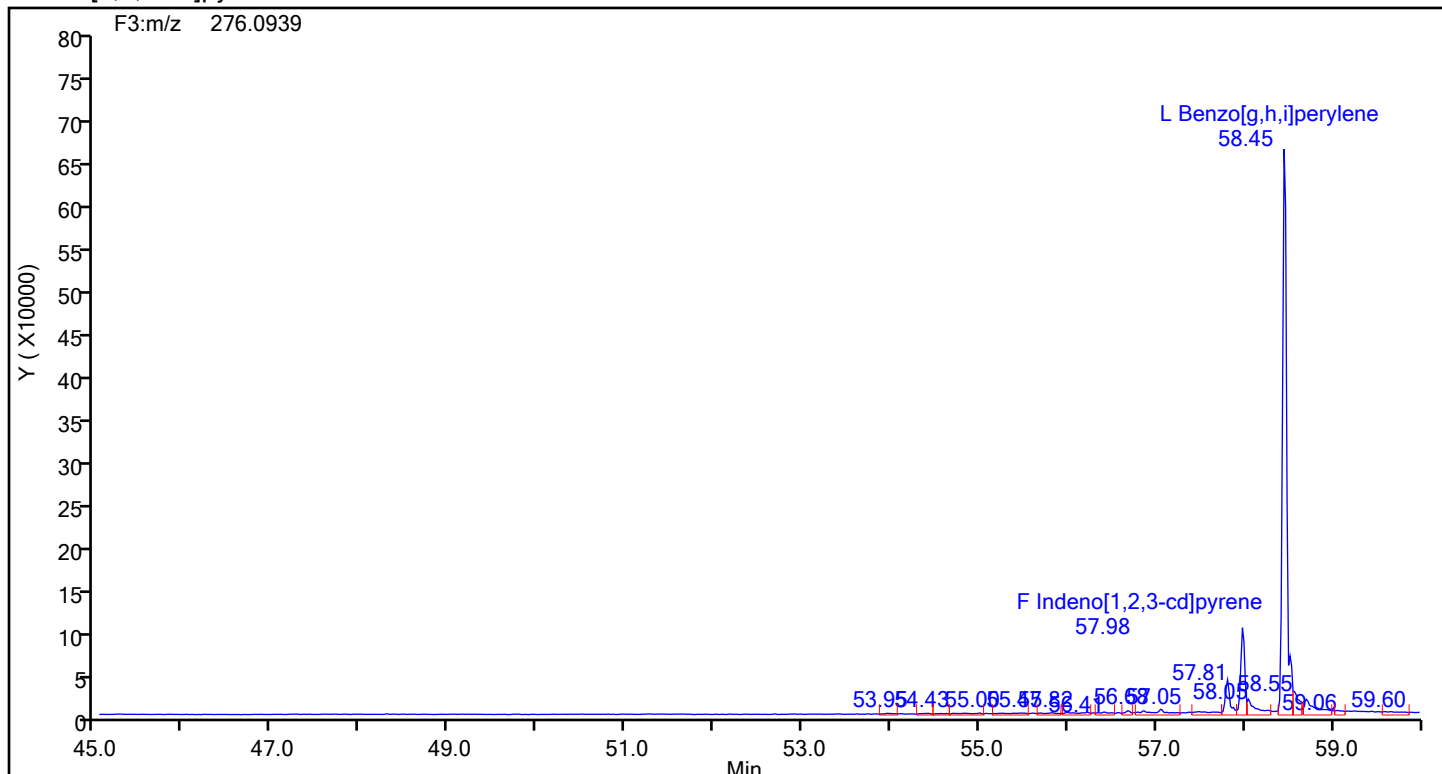
Worklist#: 87947

Sample Line#: 8

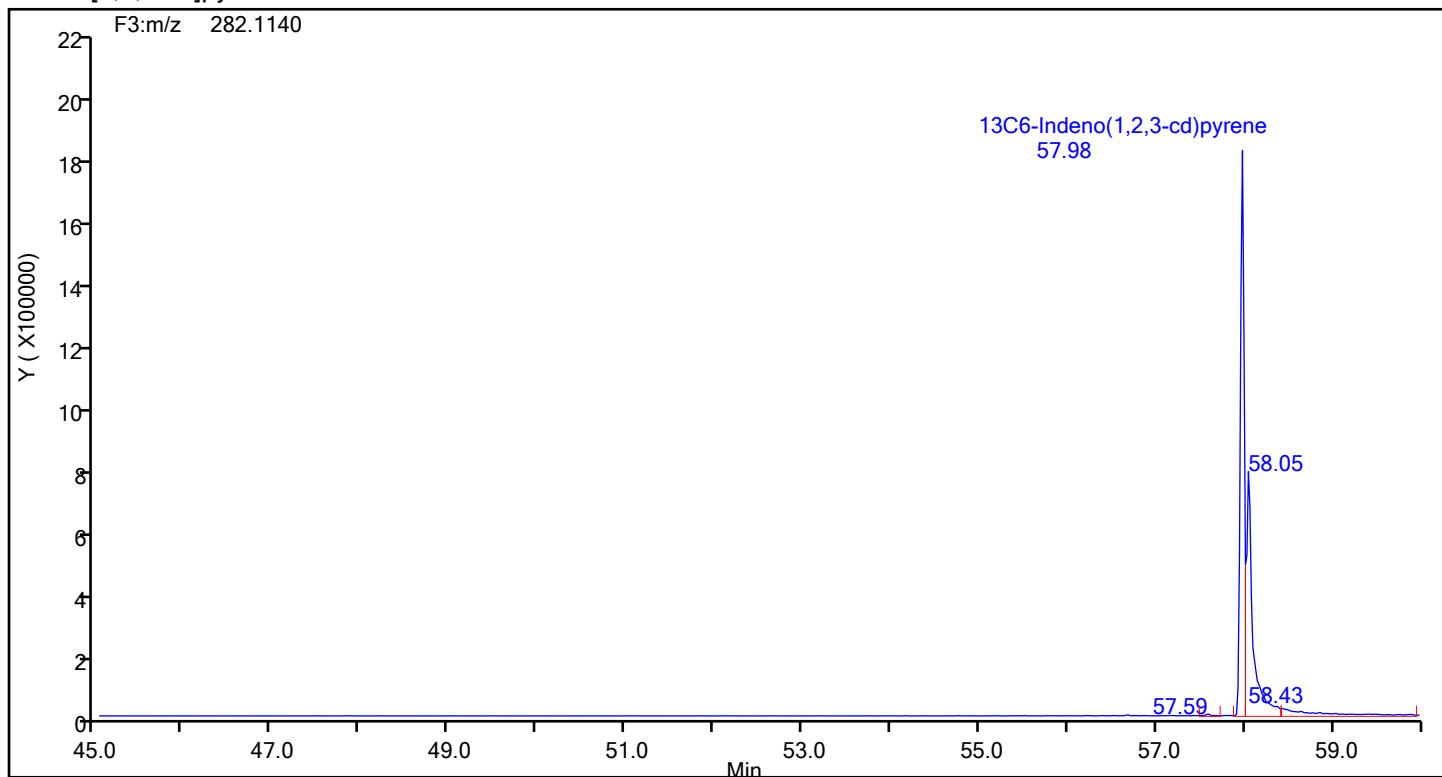
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

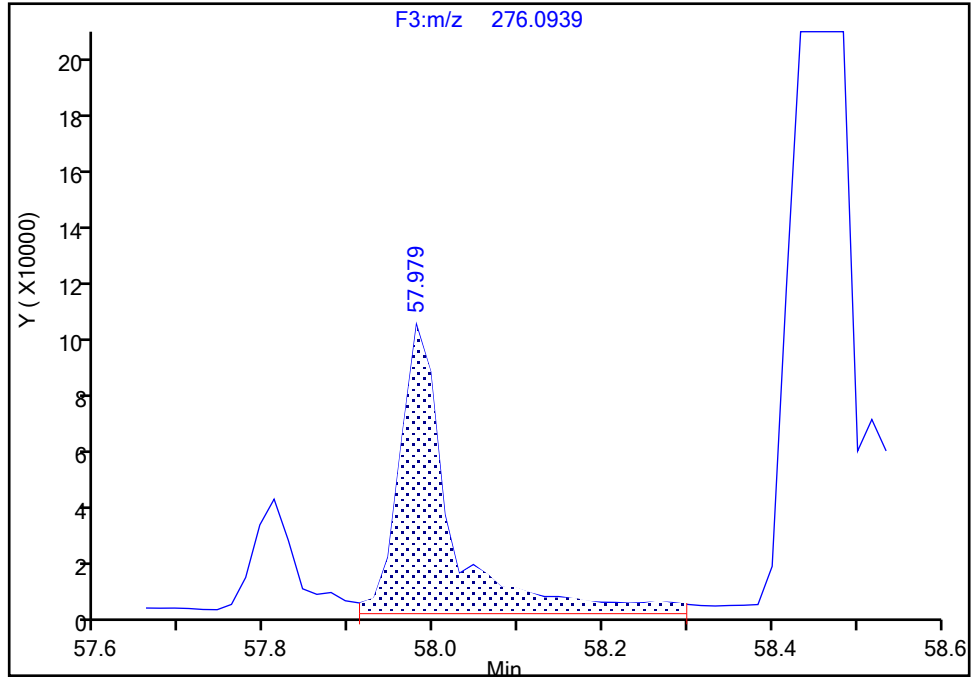
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Injection Date: 21-Jun-2024 21:29:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-2-D Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

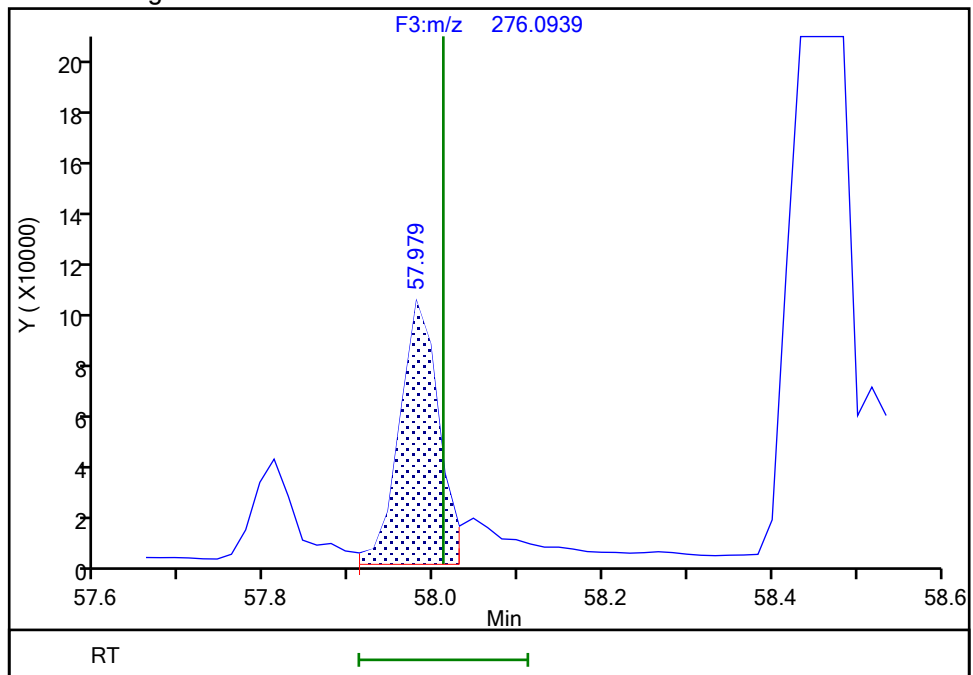
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Amount: 7.490953
Amount Units: pg/ul

Processing Integration Results



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Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 10:16:41 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

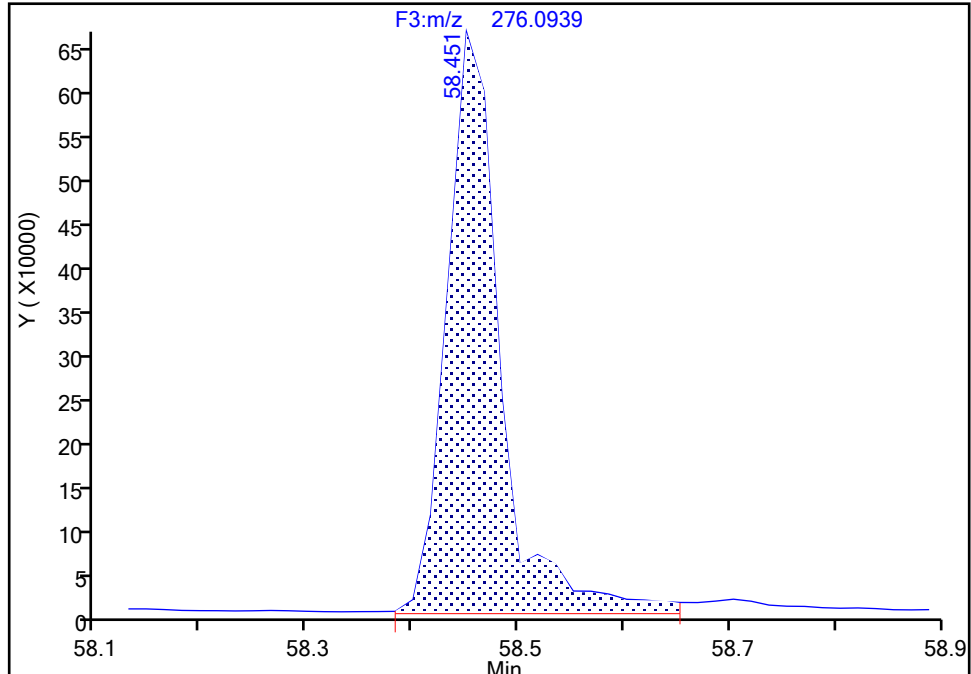
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Injection Date: 21-Jun-2024 21:29:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-2-D Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

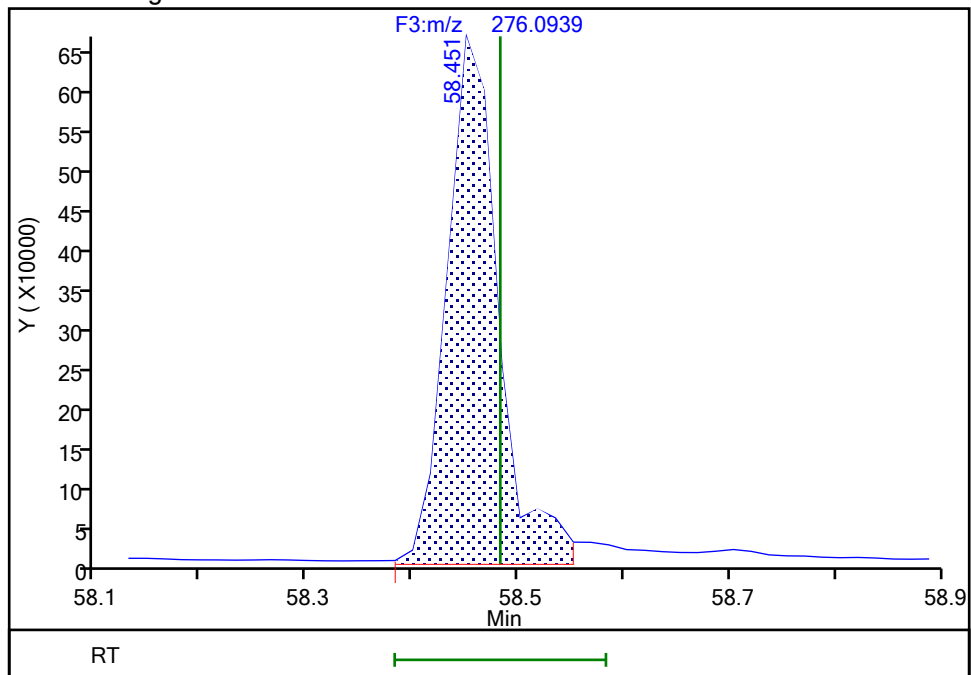
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Amount: 30.274938
Amount Units: pg/ul

Processing Integration Results



RT: 58.45
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Amount: 28.938425
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 10:17:18 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

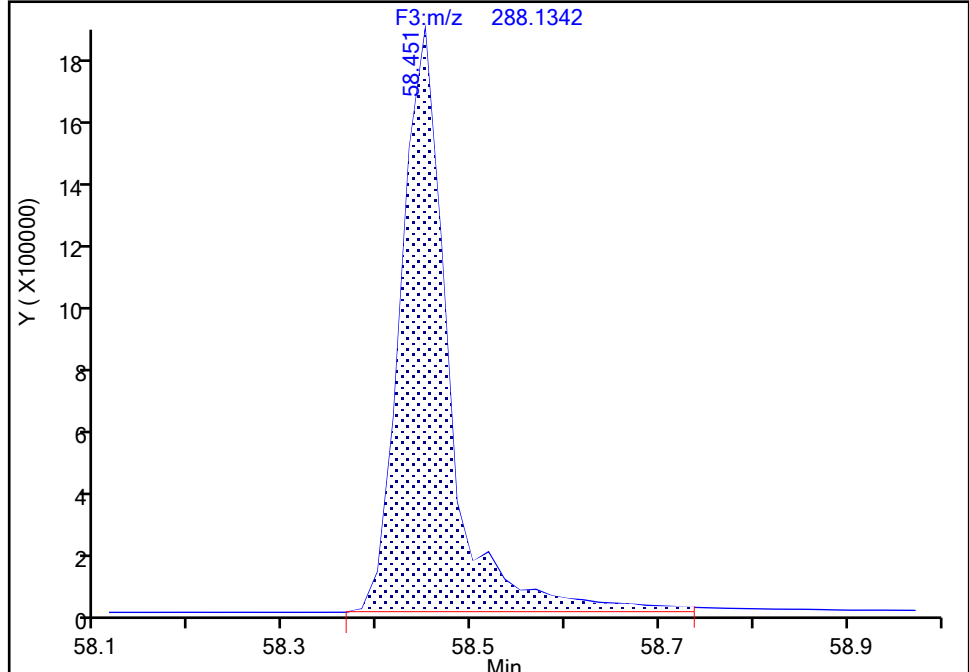
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d
Injection Date: 21-Jun-2024 21:29:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-2-D Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

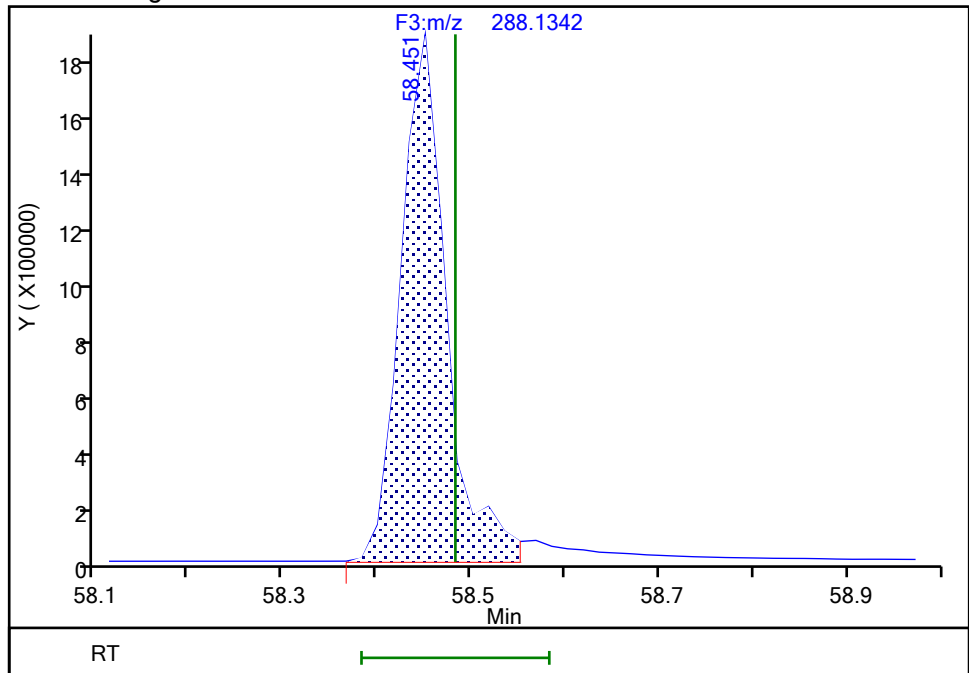
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Amount Units: pg/ul

Processing Integration Results



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Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 10:17:09 -04:00:00 (UTC)

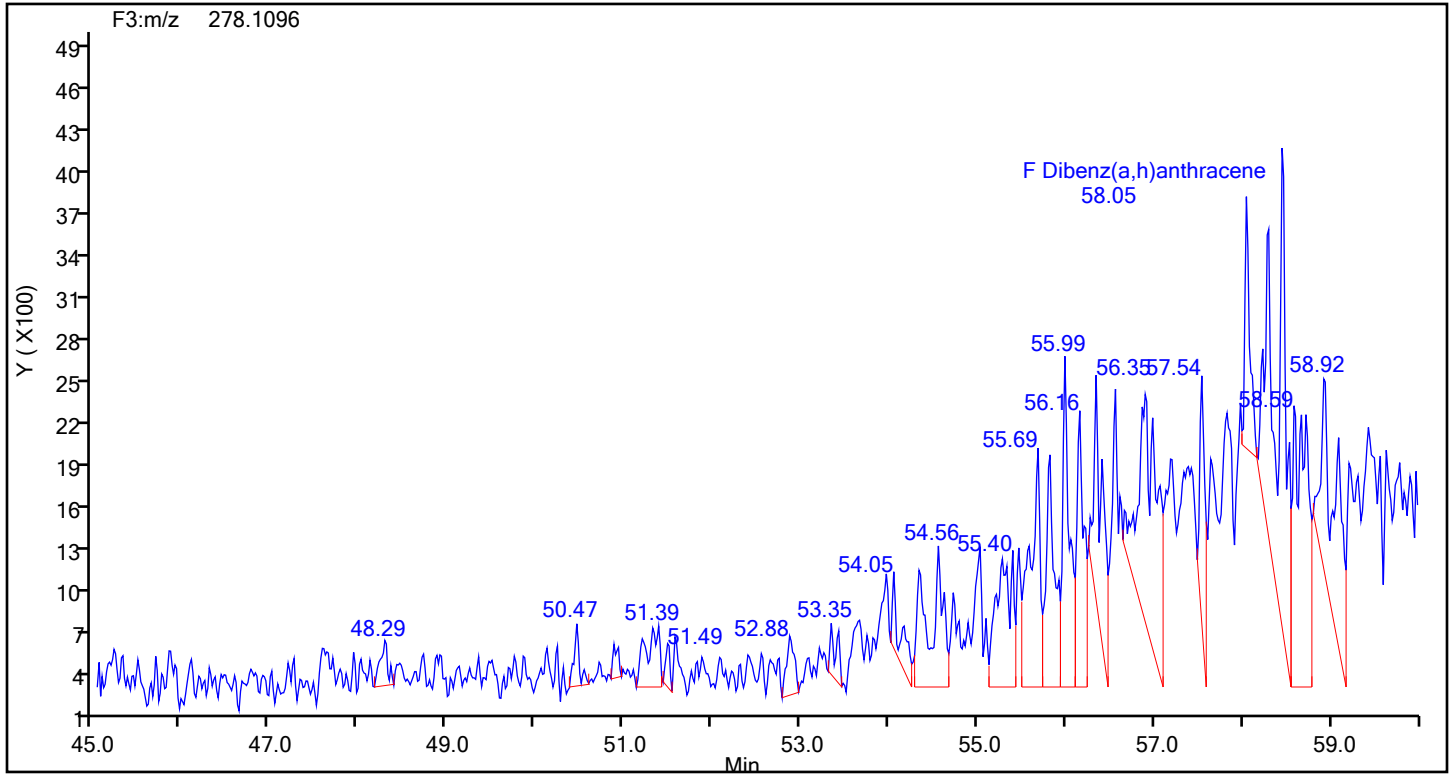
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

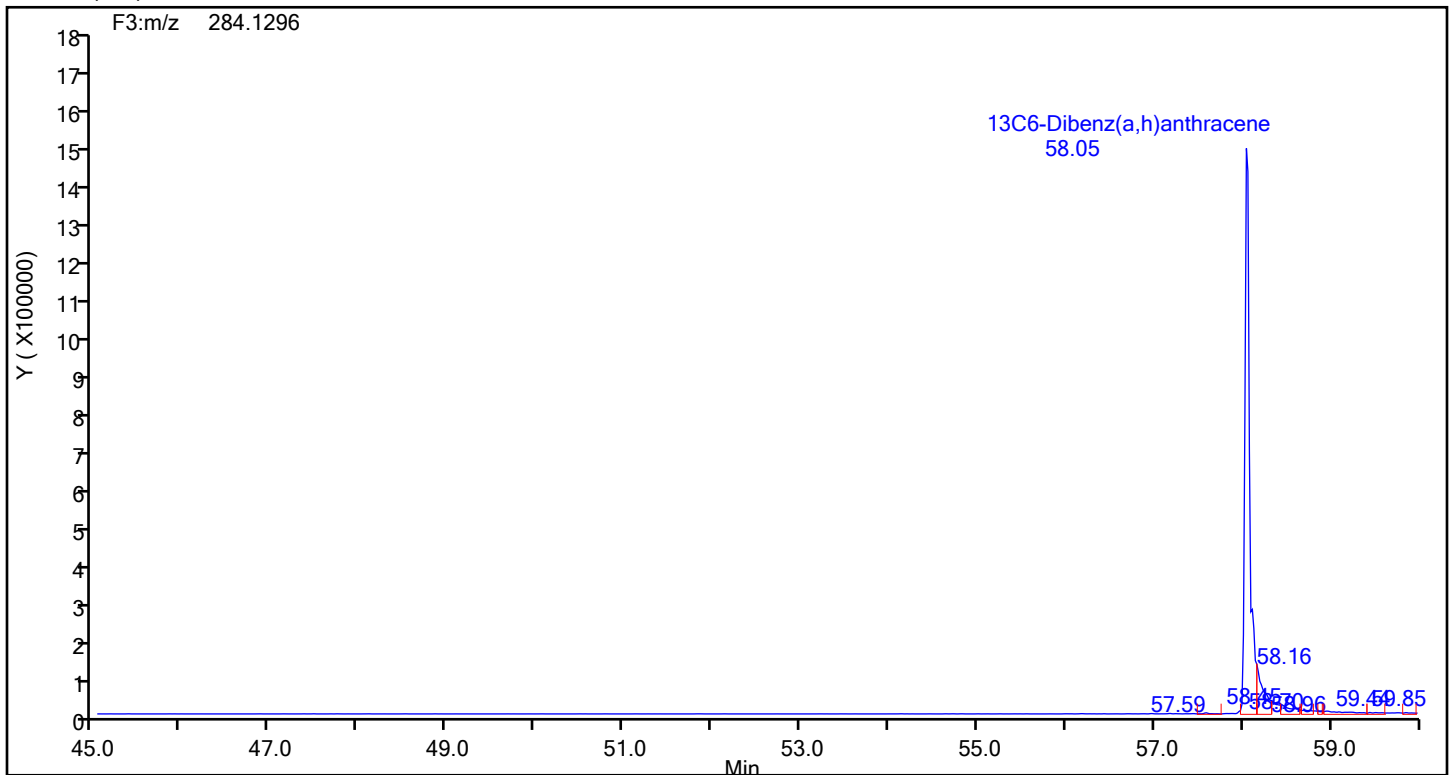
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d
Injection Date: 21-Jun-2024 21:29:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87947 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

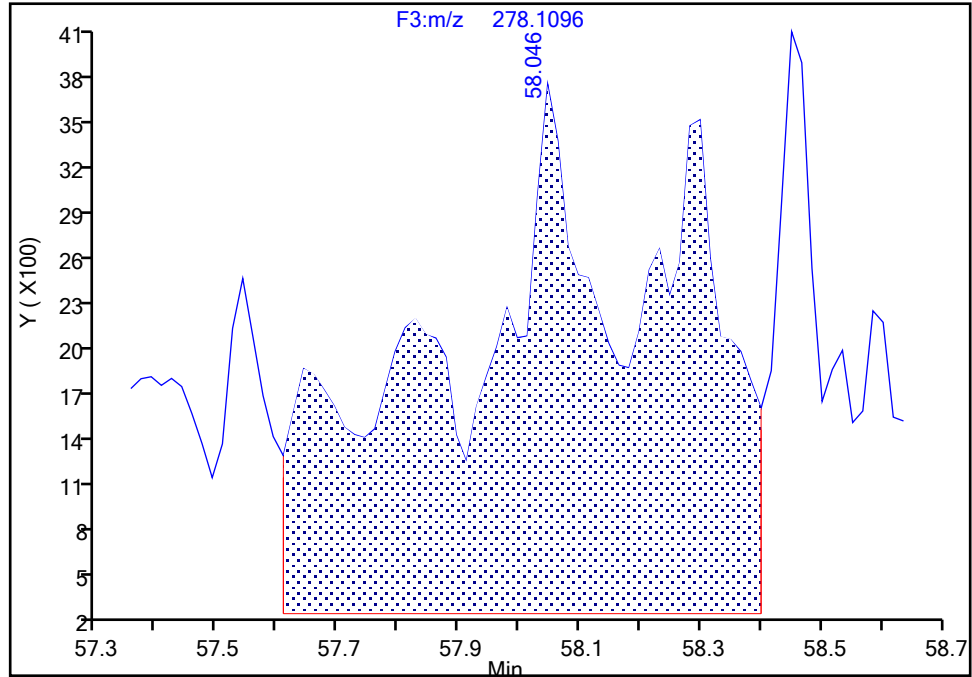
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d
Injection Date: 21-Jun-2024 21:29:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-2-D Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

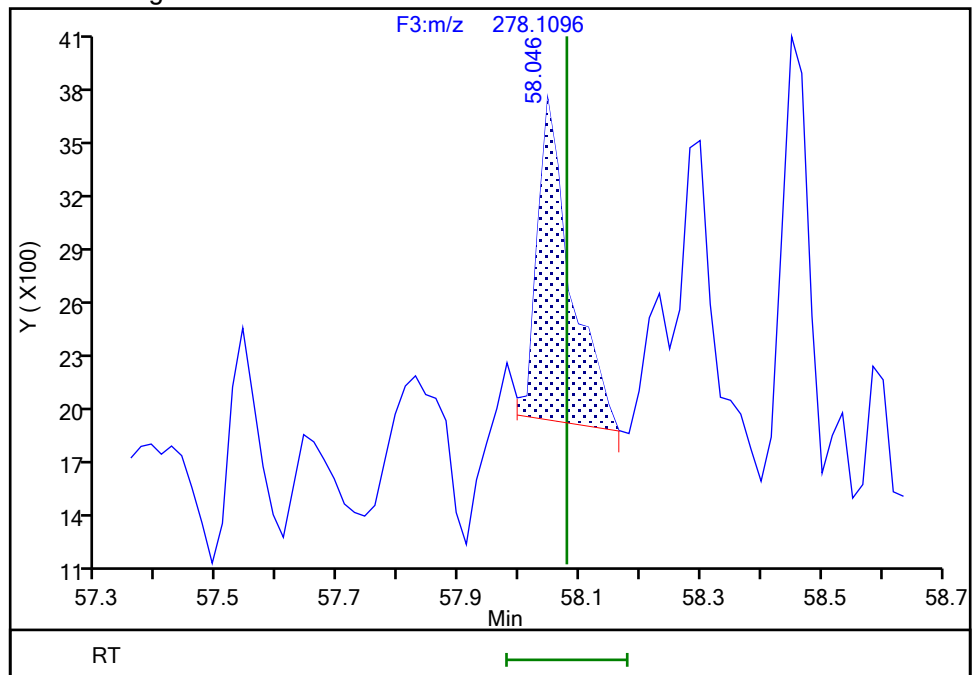
RT: 58.05
Area: 88181
Amount: 1.390971
Amount Units: pg/ul

Processing Integration Results



RT: 58.05
Area: 6838
Amount: 0.107863
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 10:16:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

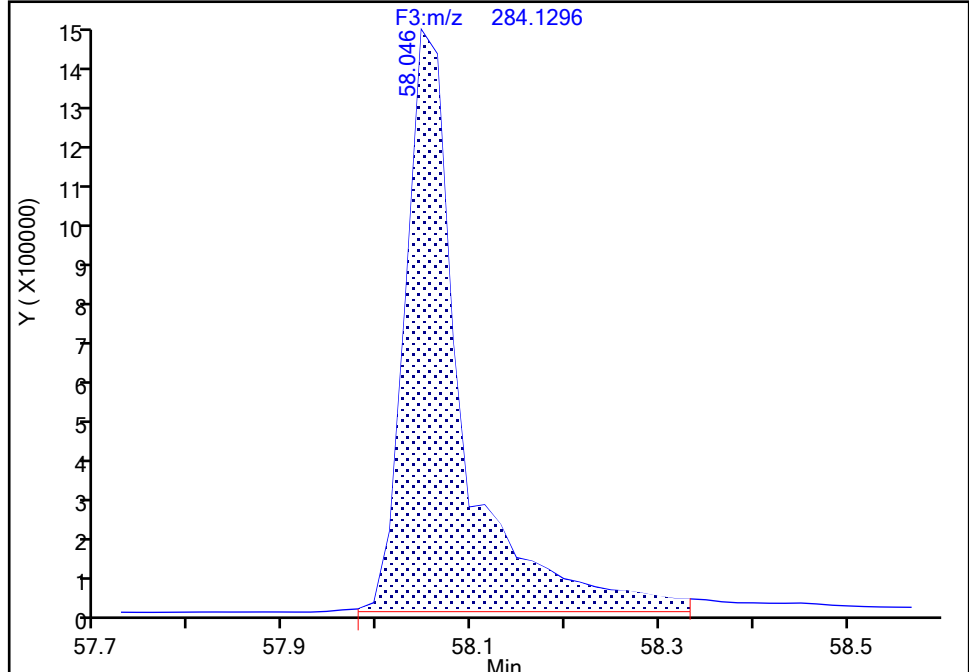
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Injection Date: 21-Jun-2024 21:29:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-2-D Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

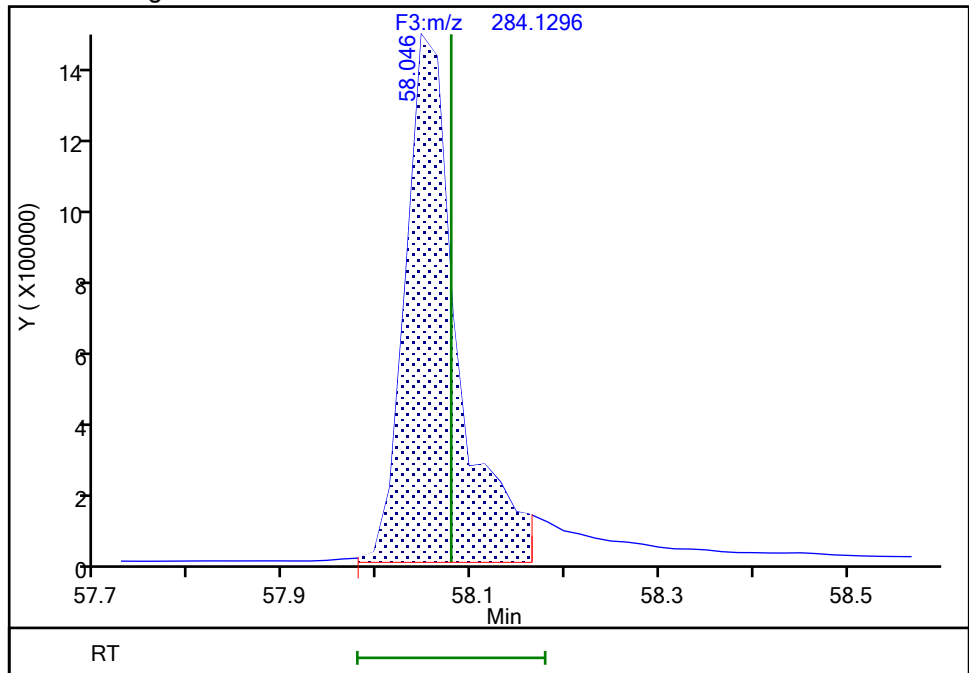
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Amount: 106.0464
Amount Units: pg/ul

Processing Integration Results



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Amount: 96.097716
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 10:16:50 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-2-d.d
Lims ID: 140-36689-A-2-D
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Sample Type: Client
Inject. Date: 21-Jun-2024 21:29:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033215-008
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 24-Jun-2024 10:17:21 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1661

First Level Reviewer: F9EE

Date: 24-Jun-2024 10:17:21

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	8.28	82.85
13C6-Benzo(c)fluorene	66.7	69.4	104.06
13C12-Benzo(j)fluoranthene	66.7	60.8	91.23

FORM I

Lab Name: Eurofins Knoxville	Job No.: 140-36689-1
SDG No.:	
Client Sample ID: M23-NO.3 BOILER-RUN 3 COMBINED	Lab Sample ID: 140-36689-3
Matrix: Air	Lab File ID: 140-36689-a-3-d.d
Analysis Method: 23	Date Collected: 05/08/2024 15:00
Extract. Method: Combined Prep	Date Extracted: 05/31/2024 12:03
Sample wt/vol: 1(Sample)	Date Analyzed: 06/21/2024 22:33
Con. Extract Vol.: 30(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	GC Column: Rxi-5SilMS 25 ID: 0.25(mm)
% Moisture: % Solids:	GPC Cleanup:(Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 87947	Units: ng/Sample
Preparation Batch No.: 87205	Instrument ID: Excalibur D3PAH DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	331	B	75.0	75.0	1.06
91-57-6	2-Methylnaphthalene	297	B	75.0	75.0	0.443
208-96-8	Acenaphthylene	20.3	B	3.00	3.00	0.345
83-32-9	Acenaphthene	67.5	B	30.0	30.0	0.488
86-73-7	Fluorene	190	B	30.0	30.0	0.602
85-01-8	Phenanthrene	560	B	6.00	6.00	0.535
120-12-7	Anthracene	ND		30.0	30.0	0.486
206-44-0	Fluoranthene	78.7	B	6.00	6.00	0.213
129-00-0	Pyrene	70.7	B	6.00	6.00	0.233
56-55-3	Benzo[a]anthracene	2.75	J B	6.00	6.00	0.108
218-01-9	Chrysene	12.4	B	6.00	6.00	0.102
205-99-2	Benzo[b]fluoranthene	5.20	J B	30.0	30.0	0.0806
207-08-9	Benzo[k]fluoranthene	1.81	J B	6.00	6.00	0.0778
192-97-2	Benzo[e]pyrene	10.2	B	6.00	6.00	0.0783
50-32-8	Benzo[a]pyrene	1.78	J B	3.00	3.00	0.0774
198-55-0	Perylene	0.288	J B	3.00	3.00	0.0702
193-39-5	Indeno[1,2,3-cd]pyrene	6.29	B	3.00	3.00	0.0562
53-70-3	Dibenz (a,h) anthracene	0.322	J B	6.00	6.00	0.0439
191-24-2	Benzo[g,h,i]perylene	25.6	B	6.00	6.00	0.0462

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 3</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-3-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/08/2024 15:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/21/2024 22:33</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87947</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	43		20-130
STL03357	13C6-2-Methylnaphthalene	47		20-130
189811-56-1	13C6-Acenaphthylene	69		20-130
189811-57-2	13C6-Acenaphthene	66		20-130
STL00616	13C6-Fluorene	77		20-130
1397194-60-3	13C6-Fluoranthrene	80		20-130
1397214-90-2	13C3-Pyrene	71		20-130
917378-11-1	13C6-Benzo (a) anthracene	71		20-130
1397177-72-8	13C6-Chrysene	71		20-130
STL03358	13C6-Benzo (b) fluoranthene	87		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	89		20-130
STL03382	13C4-Benzo (e) pyrene	77		20-130
STL03359	13C4-Benzo (a) pyrene	84		20-130
1520-96-3	Perylene-d12	77		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	88		20-130
STL03360	13C6-Dibenz (a,h) anthracene	92		20-130
350820-11-0	13C12-Benzo (ghi) perylene	89		20-130
189811-60-7	13C6-Anthracene	105		20-130
1189955-53-0	13C6-Phenanthrene	91		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
 Lims ID: 140-36689-A-3-D
 Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
 Sample Type: Client
 Inject. Date: 21-Jun-2024 22:33:00 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033215-009
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 24-Jun-2024 15:07:58 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1661

First Level Reviewer: F9EE

Date: 24-Jun-2024 15:05:26

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:29	823043		3.3746	43.4	43.4	0.009171	0.009171	43.43	
Naphthalene	11:29	2340095		1.2893	220.5	220.5	0.7076	0.7076		
D 13C6-2-Methylnaphthalene	13:50	422414		1.6031	46.9	46.9	0.008911	0.008911	46.92	
2-Methylnaphthalene	13:51	1069346		1.2786	198.0	198.0	0.2956	0.2956		
D 13C6-Acenaphthylene	16:43	635553		1.6520	68.5	68.5	0.009223	0.009223	68.50	
Acenaphthylene	16:44	117072		2.3661	13.6	13.6	0.2297	0.2297		
* Acenaphthene-d10	17:18	280798		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:25	364926		0.9792	66.4	66.4	0.005835	0.005835	66.36	
Acenaphthene	17:26	208635		1.2697	45.0	45.0	0.3257	0.3257		
D 13C6-Fluorene	19:43	387198		0.8898	77.5	77.5	0.0546	0.0546	77.48	
Fluorene	19:43	613893		1.2532	126.5	126.5	0.4016	0.4016		
D 13C6-Phenanthrene	25:05	704948		0.5724	91.2	91.2	0.0117	0.0117	91.20	
Phenanthrene	25:06	2909095		1.1044	373.6	373.6	0.3567	0.3567		
\$ Anthracin-d10	25:21	12525		0.4257	2.179	2.179	0.006499	0.006499	21.79	
D 13C6-Anthracene	25:26	643316		0.4523	105.3	105.3	0.0149	0.0149	105	
Anthracene	25:27						0.3241	0.3241		U
D 13C6-Fluoranthrene	33:51	1297587		1.1994	80.1	80.1	0.0873	0.0873	80.12	
Fluoranthene	33:51	784312		1.1513	52.5	52.5	0.1420	0.1420		
* Pyrene-d10	35:24	675188		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:33	1301462		1.3512	71.3	71.3	0.0468	0.0468	71.33	
Pyrene	35:33	653080		1.0652	47.1	47.1	0.1551	0.1551		
\$ 13C6-Benzo(c)fluorene	39:15	444873		0.5136	64.1	64.1	0.0115	0.0115	96.22	
D 13C6-Benzo(a)anthracene	46:04	1294598		1.5189	71.5	71.5	0.0347	0.0347	71.47	
Benzo[a]anthracene	46:04	23120		0.9739	1.834	1.834	0.0719	0.0719		
D 13C6-Chrysene	46:20	1386631		1.6287	71.4	71.4	0.0324	0.0324	71.39	
Chrysene	46:20	112830		0.9815	8.291	8.291	0.0682	0.0682		
D 13C6-Benzo(b)fluoranthene	54:38	1520265		1.4621	87.2	87.2	0.0120	0.0120	87.20	
Benzo[b]fluoranthene	54:38	59236		1.1249	3.464	3.464	0.0538	0.0538		
\$ 13C12-Benzo(j)fluoranthene	54:40	932843		1.3558	57.7	57.7	0.0556	0.0556	86.54	
D 13C6-Benzo(k)fluoranthene	54:45	1857838		1.7507	89.0	89.0	0.0100	0.0100	88.99	
Benzo[k]fluoranthene	54:45	25334		1.1271	1.210	1.210	0.0519	0.0519		
* Benzo(e)pyrene-d12	55:29	596249		5.7E+04	50.0	50.0				
Benzo[e]pyrene	55:34	102491		1.0013	6.772	6.772	0.0522	0.0522		
D 13C4-Benzo(e)pyrene	55:33	1511462		1.6368	77.4	77.4	0.0345	0.0345	77.43	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:42	1554115		1.5508	84.0	84.0	0.0365	0.0365	84.04	
Benzo[a]pyrene	55:42	20476		1.1130	1.184	1.184	0.0516	0.0516		M
D Perylene-d12	55:52	1088112		1.1917	76.6	76.6	0.0626	0.0626	76.57	
Perylene	55:55	2993		1.4307	0.1923	0.1923	0.0468	0.0468		M
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	1076866		1.0218	88.4	88.4	0.0374	0.0374	88.37	
Indeno[1,2,3-cd]pyrene	58:01	50765		1.1249	4.191	4.191	0.0375	0.0375		M
D 13C6-Dibenz(a,h)anthracene	58:05	1160620		1.0553	92.2	92.2	0.0167	0.0167	92.23	M
Dibenz(a,h)anthracene	58:05	2823		1.1314	0.2150	0.2150	0.0293	0.0293		M
D 13C12-Benzo(ghi)perylene	58:29	1350135		1.2749	88.8	88.8	0.0103	0.0103	88.81	M
Benzo[g,h,i]perylene	58:29	296108		1.2838	17.1	17.1	0.0308	0.0308		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Lims ID: 140-36689-A-3-D
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Sample Type: Client
Inject. Date: 21-Jun-2024 22:33:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033215-009
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 24-Jun-2024 15:07:58 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1661

First Level Reviewer: F9EE

Date: 24-Jun-2024 15:05:26

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:29	11:15	-4	0.663	823043	277545	26	65	10675		
Naphthalene											
128.0626	11:29	11:33	-4	1.000	2340095	790897	1013	2532	781		
13C6-2-Methylnaphthalene											
148.0984	13:50	13:31	-2	0.800	422414	187830	12	30	15653		
2-Methylnaphthalene											
142.0783	13:51	13:52	-1	1.001	1069346	485387	284	710	1709		
13C6-Acenaphthylene											
158.0828	16:43	16:20	-1	0.966	635553	225828	13	32	17371		
Acenaphthylene											
152.0626	16:44	16:43	-1	1.000	117072	36053	264	660	137		
Acenaphthene-d10											
164.1404	17:18	17:19	-1		280798	105011	10	25	10501		
13C6-Acenaphthene											
160.0984	17:25	17:00	-1	1.007	364926	121411	5	12	24282		
Acenaphthene											
154.0783	17:26	17:27	-1	1.001	208635	70988	201	502	353		
13C6-Fluorene											
172.0984	19:43	19:14	0	1.139	387198	103320	41	102	2520		
Fluorene											
166.0783	19:43	19:44	0	1.001	613893	158276	208	520	761		
13C6-Phenanthrene											
184.0984	25:05	25:06	-1	0.709	704948	166754	7	17	23822		
Phenanthrene											
178.0783	25:06	25:05	-1	1.000	2909095	657726	263	657	2501		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:21	25:19	2	0.716	12525	2794	3	7	931		
13C6-Anthracene											
184.0984	25:26	25:26	0	0.718	643316	149220	7	17	21317		E
Anthracene											U
178.0783	25:26						263	657			
13C6-Fluoranthrene											
208.0984	33:51	33:52	-1	0.956	1297587	247698	106	265	2337		
Fluoranthene											
202.0783	33:51	33:51	0	1.000	784312	153902	162	405	950		
Pyrene-d10											
212.1404	35:24	35:25	0		675188	126496	11	27	11500		
13C3-Pyrene											
205.0883	35:33	35:33	0	1.004	1301462	245114	64	160	3830		
Pyrene											
202.0783	35:33	35:30	0	1.000	653080	121073	162	405	747		
13C6-Benzo(c)fluorene											
222.1134	39:15	39:31	0	0.707	444873	80604	6	15	13434		
13C6-Benzo(a)anthracene											
234.1140	46:04	46:04	0	1.301	1294598	221390	84	210	2636		
Benzo[a]anthracene											
228.0939	46:04	46:04	-1	1.000	23120	4275	62	155	69		
13C6-Chrysene											
234.1140	46:20	46:21	0	1.309	1386631	231471	84	210	2756		
Chrysene											
228.0939	46:20	46:21	-1	1.000	112830	12882	62	155	208		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	55:00	0	0.985	1520265	416723	28	70	14883		
Benzo[b]fluoranthene											
252.0939	54:38	54:38	0	1.000	59236	12159	101	252	120		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	55:02	0	0.985	932843	231655	120	300	1930		
13C6-Benzo(k)fluoranthene											
258.1140	54:45	55:07	0	0.987	1857838	430877	28	70	15388		
Benzo[k]fluoranthene											
252.0939	54:45	54:43	0	1.000	25334	4520	101	252	45		
Benzo(e)pyrene-d12											
264.1692	55:29	55:30	0		596249	198961	119	297	1672		
Benzo[e]pyrene											
252.0939	55:34	55:55	1	1.000	102491	31148	101	252	308		
13C4-Benzo(e)pyrene											
256.1073	55:33	55:56	0	1.001	1511462	482041	90	225	5356		
13C4-Benzo(a)pyrene											
256.1073	55:42	56:05	0	1.004	1554115	438753	90	225	4875		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											M
252.0939	55:42	55:42	0	1.000	20476	5008	101	252	50		M
Perylene-d12											
264.1692	55:52	56:15	0	1.007	1088112	376152	119	297	3161		
Perylene											M
252.0939	55:55	55:54	-1	1.001	2993	679	101	252	7		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:24	0	1.046	1076866	360426	61	152	5909		
Indeno[1,2,3-cd]pyrene											M
276.0939	58:01	58:02	0	1.000	50765	12840	61	152	210		M
13C6-Dibenz(a,h)anthracene											M
284.1296	58:05	58:06	0	1.047	1160620	308134	28	70	11005		M
Dibenz(a,h)anthracene											M
278.1096	58:05	58:06	0	1.000	2823	620	41	102	15		M
13C12-Benzo(ghi)perylene											M
288.1342	58:29	58:29	0	1.054	1350135	384630	21	52	18316		M
Benzo[g,h,i]perylene											M
276.0939	58:29	58:30	0	1.000	296108	79165	61	152	1298		M

QC Flag Legend

Processing Flags

Review Flags

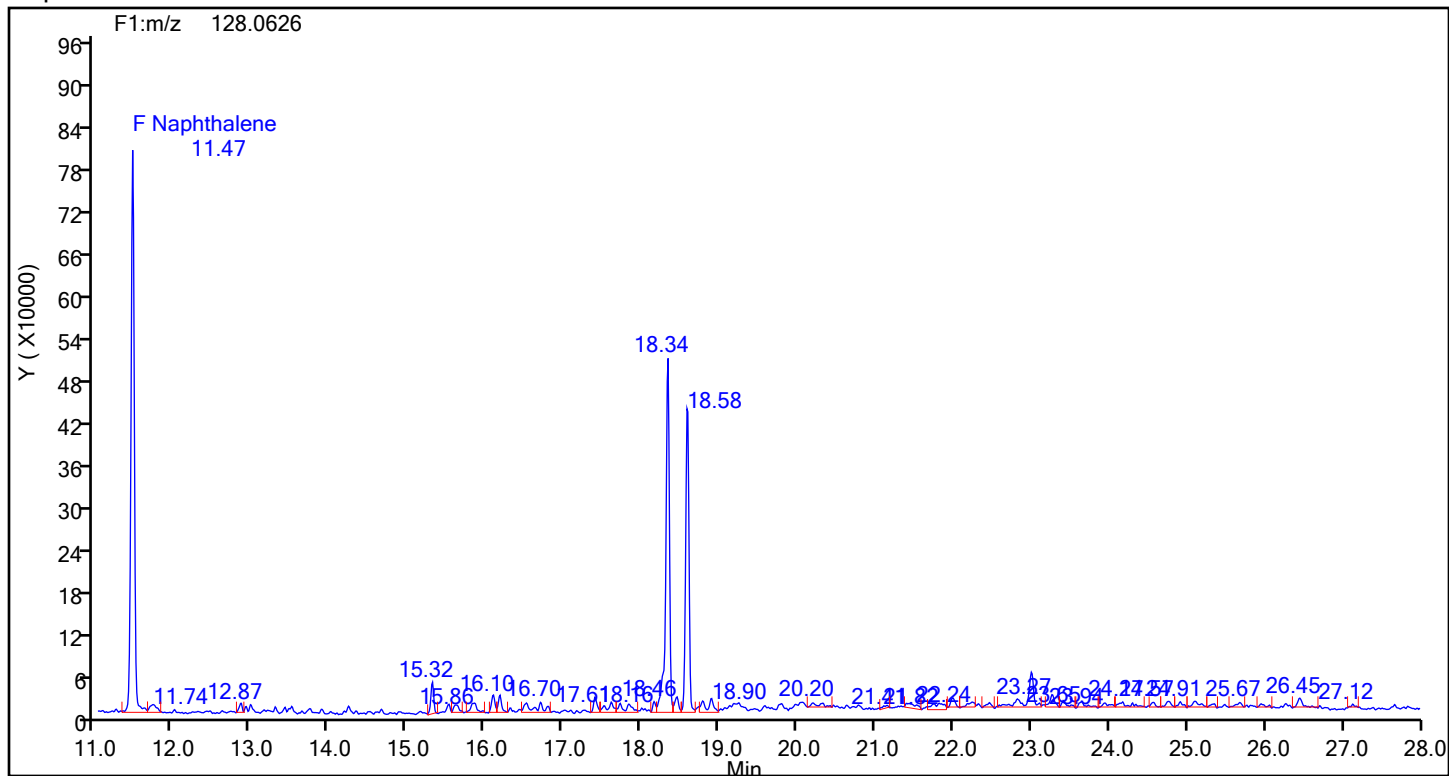
M - Manually Integrated

U - Marked Undetected

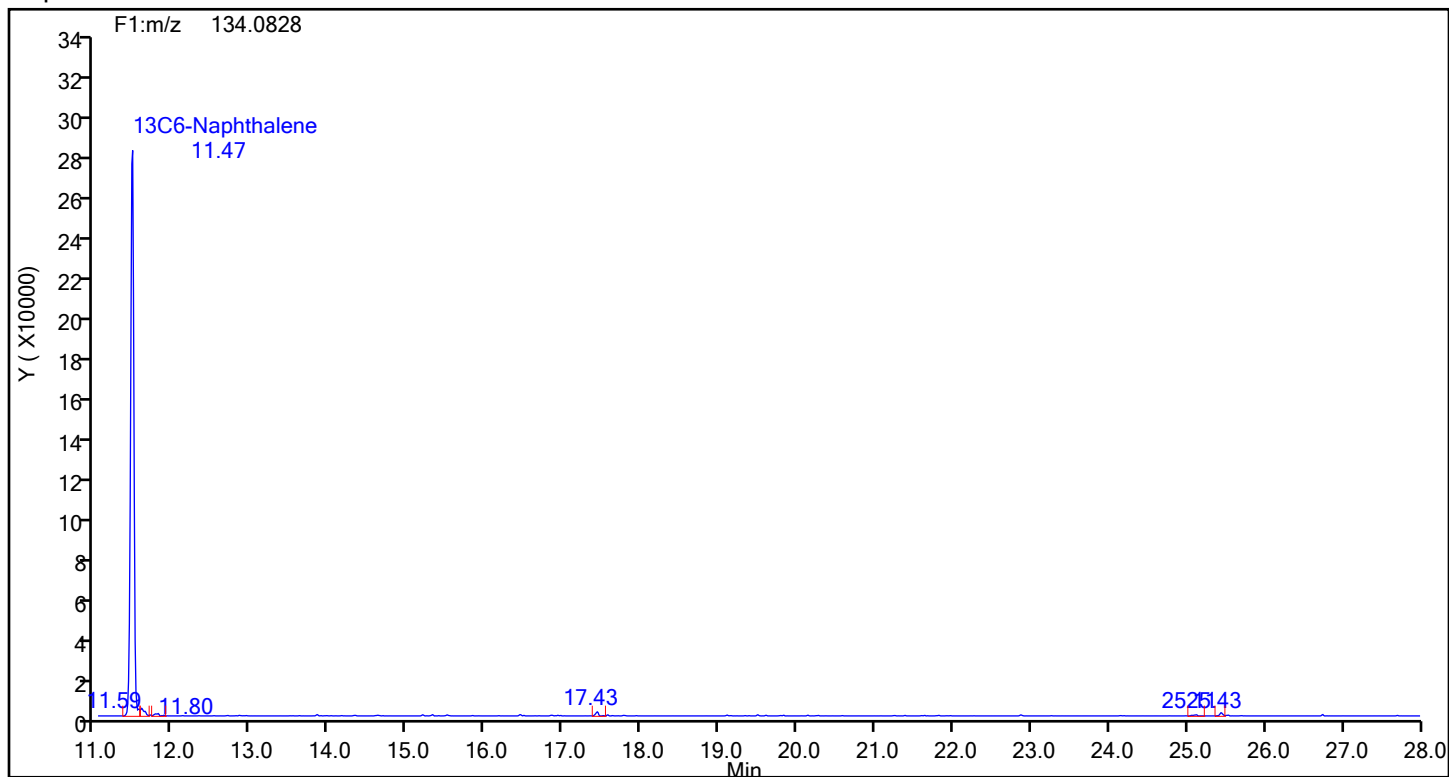
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



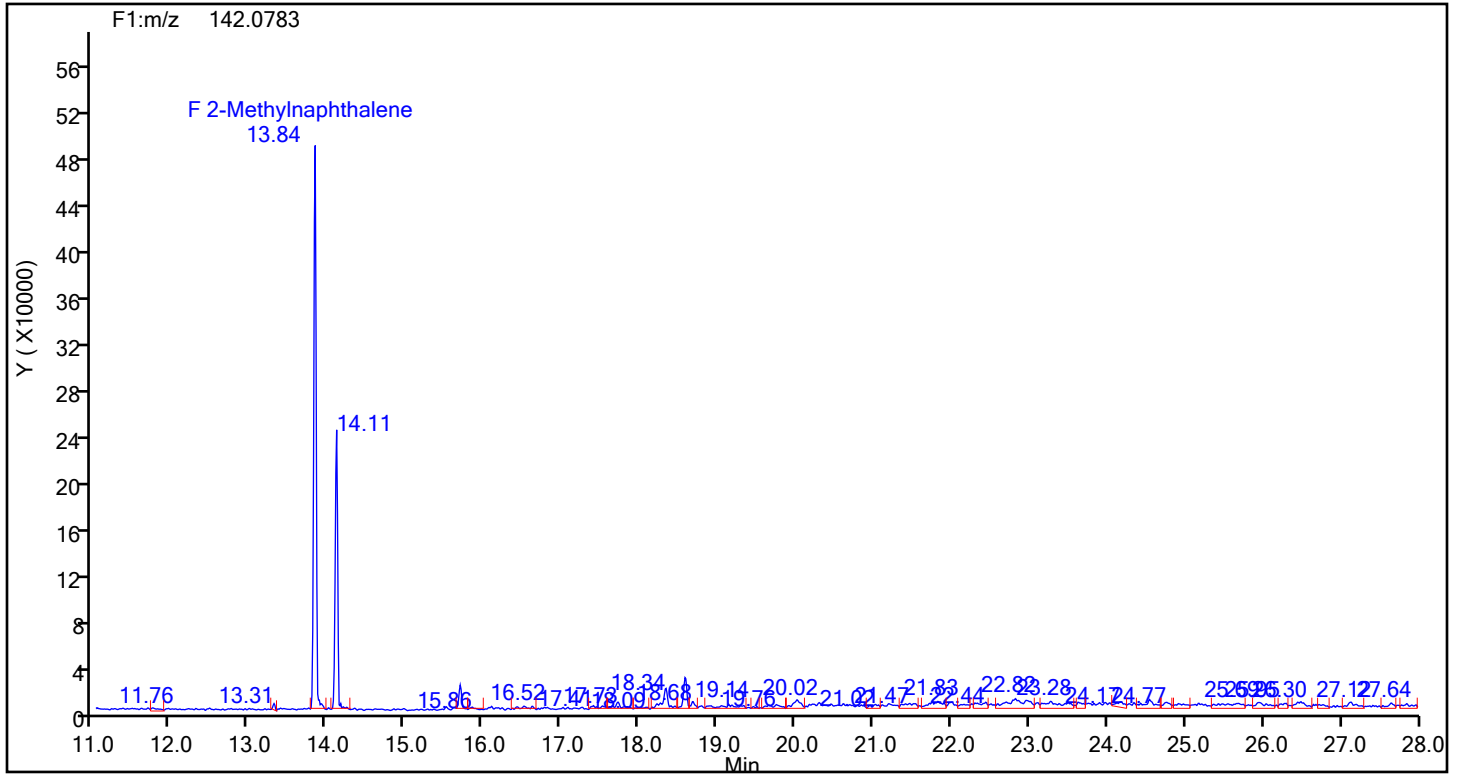
Naphthalene Standards



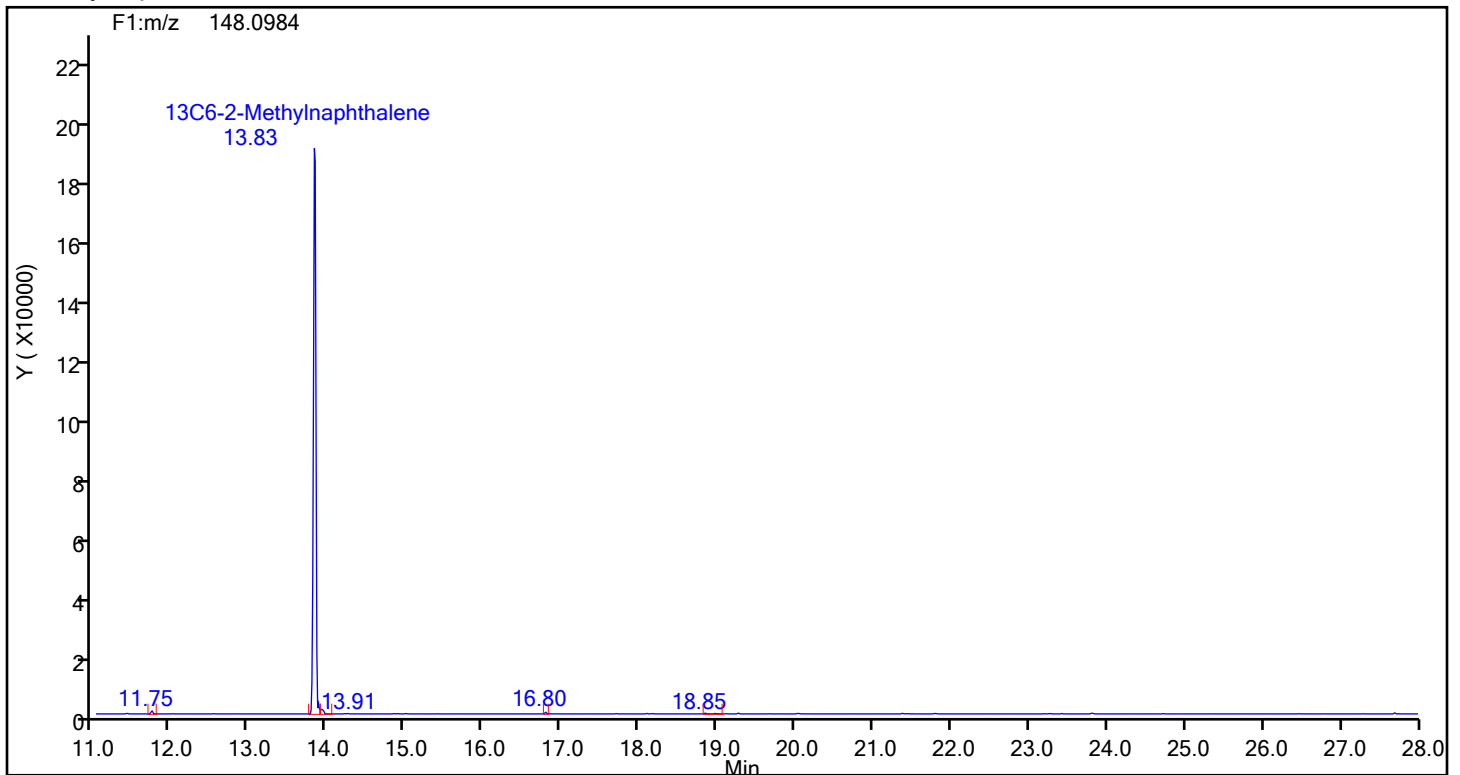
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



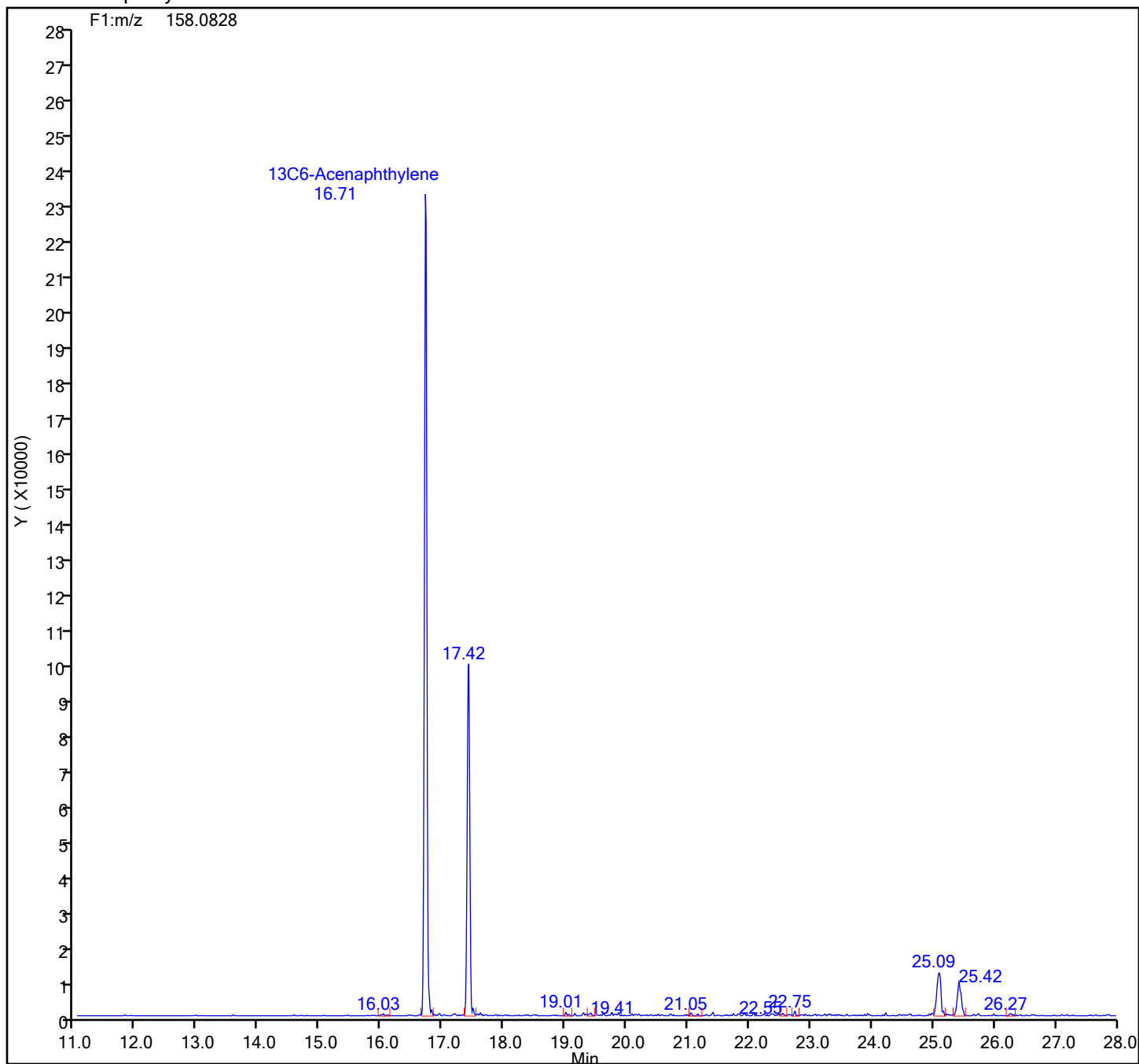
2-Methylnaphthalene Standards



Eurofins Knoxville

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Injection Date: 21-Jun-2024 22:33:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

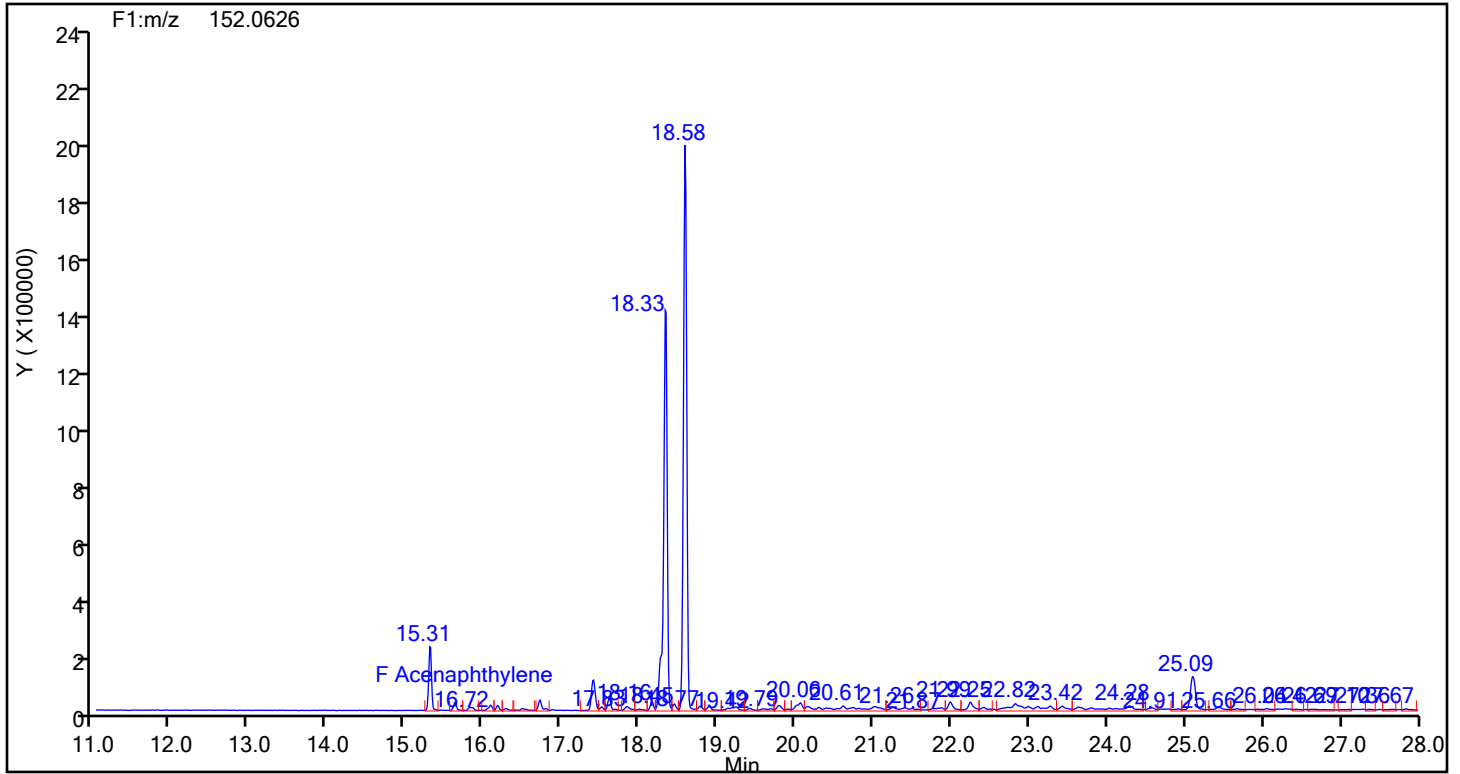
13C6-Acenaphthylene Standards



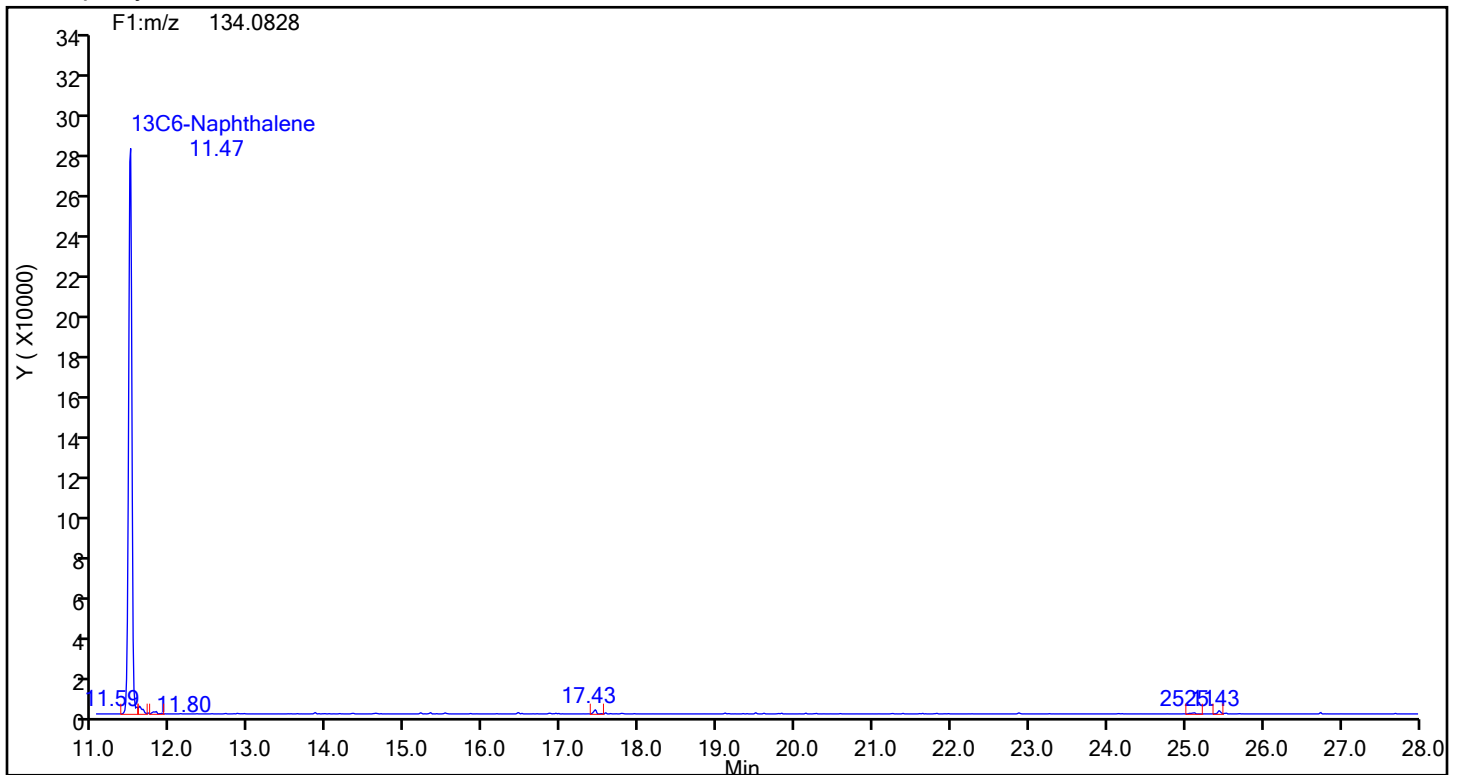
Eurofins Knoxville

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Injection Date: 21-Jun-2024 22:33:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



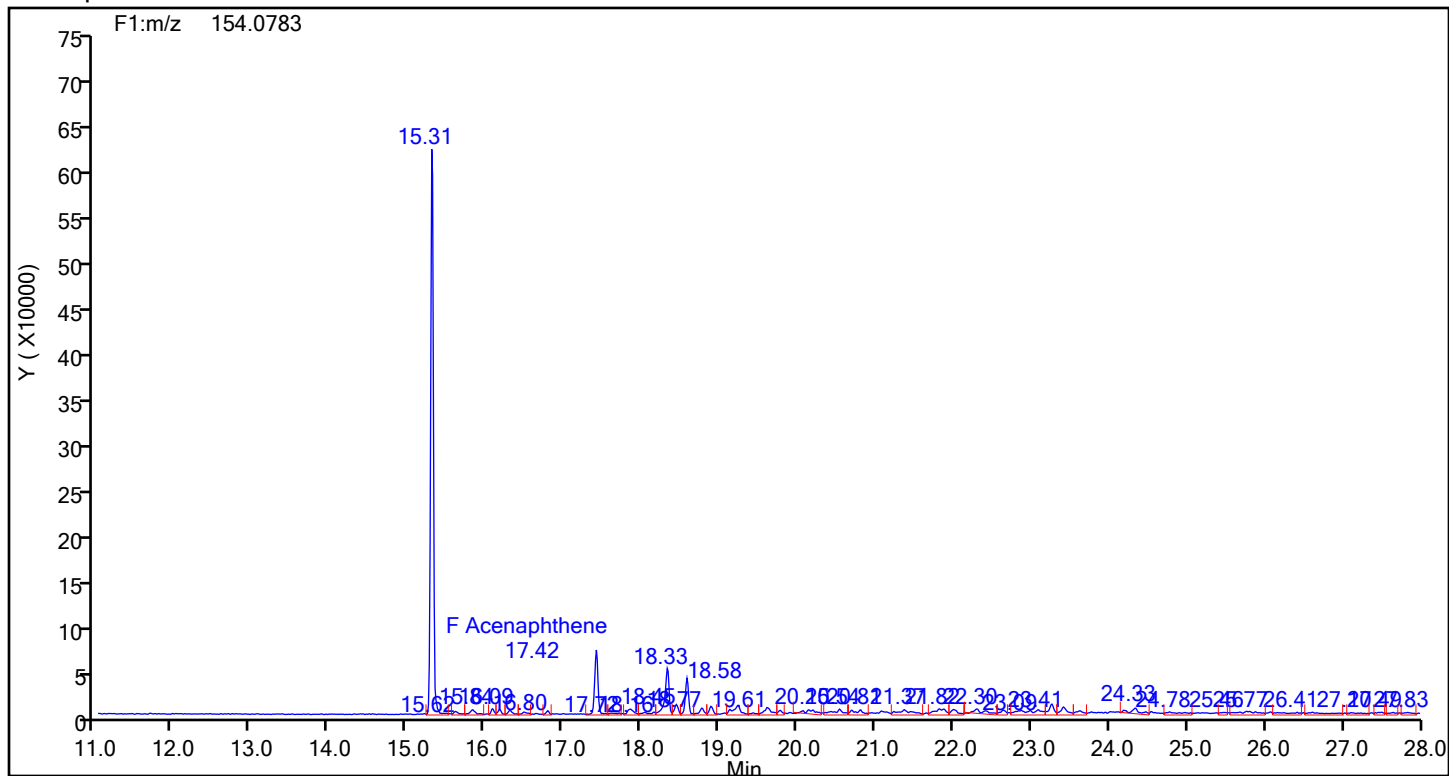
Acenaphthylene Standards



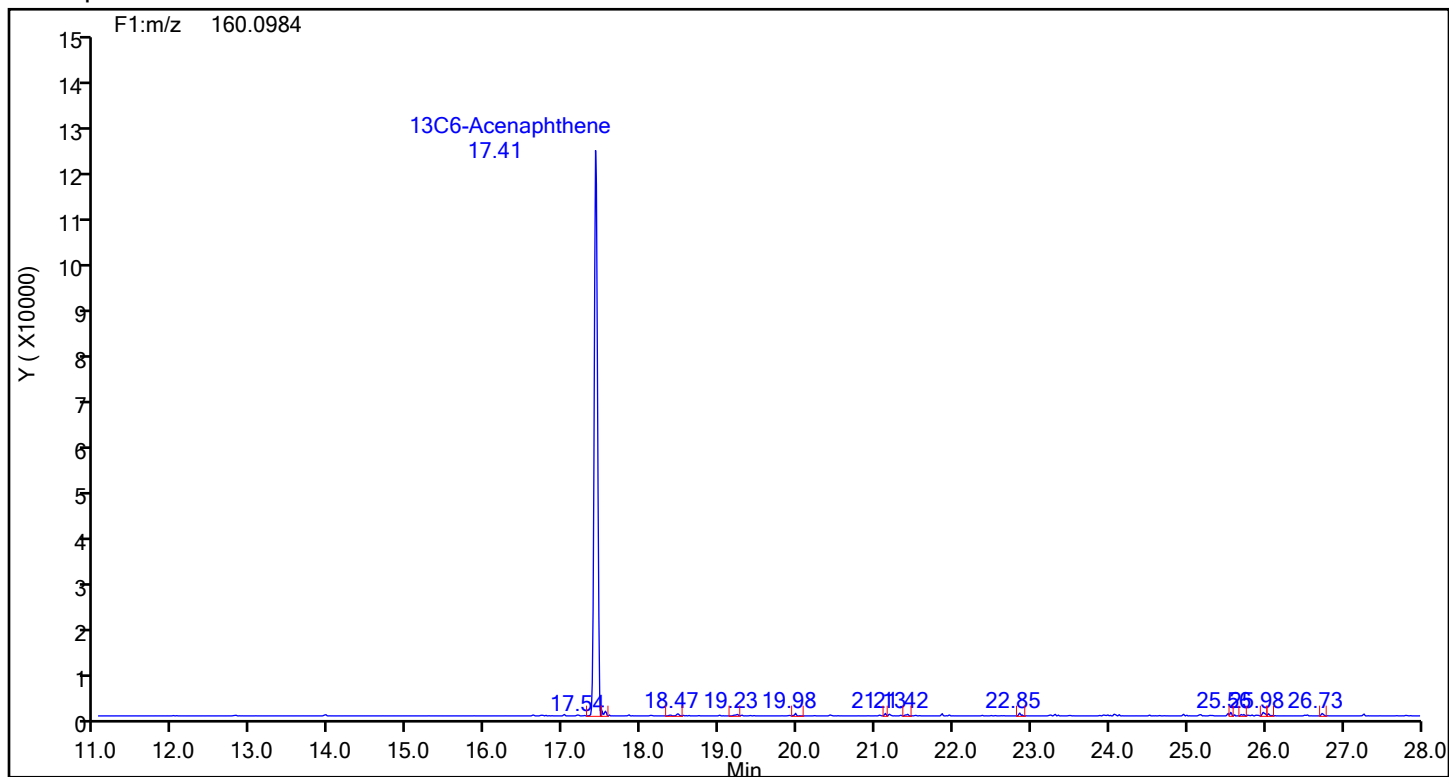
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



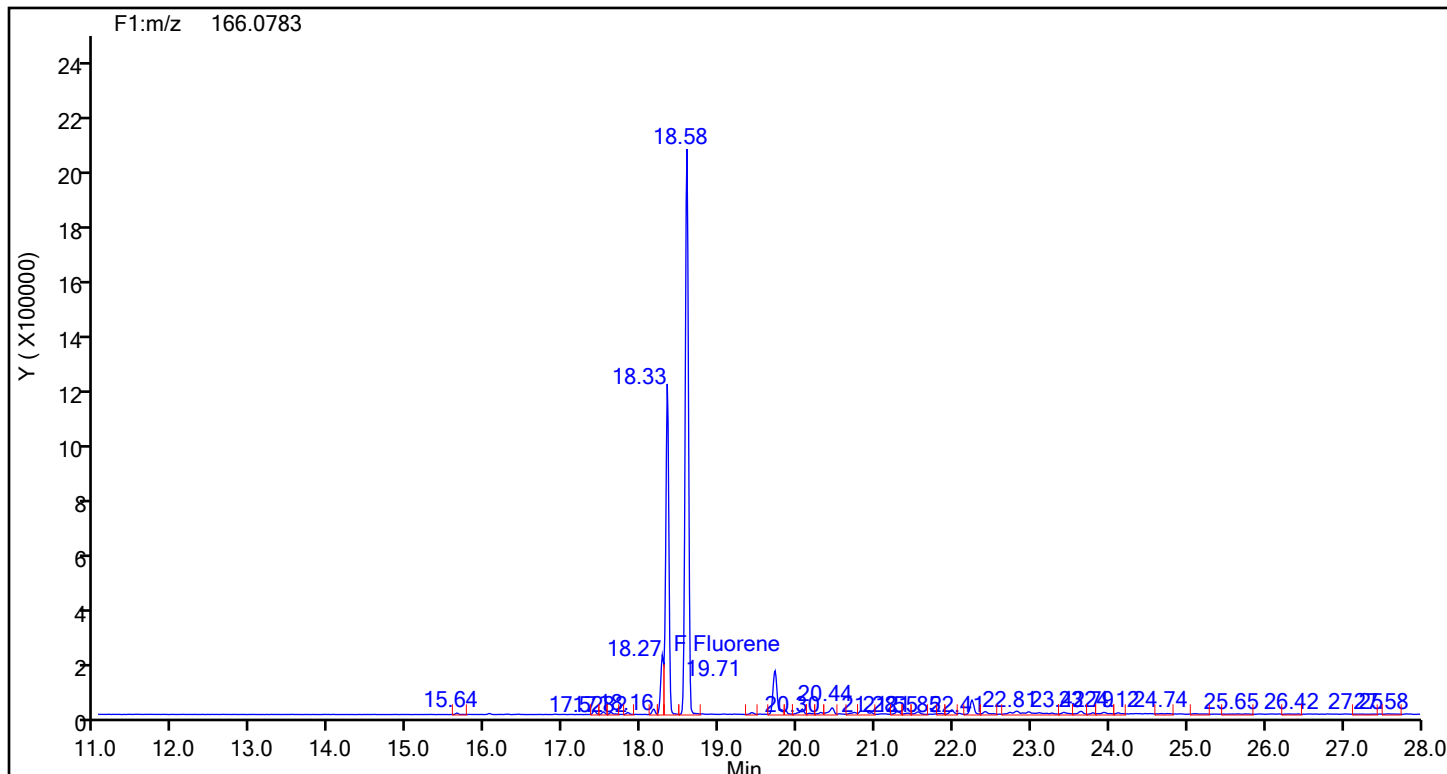
Acenaphthene Standards



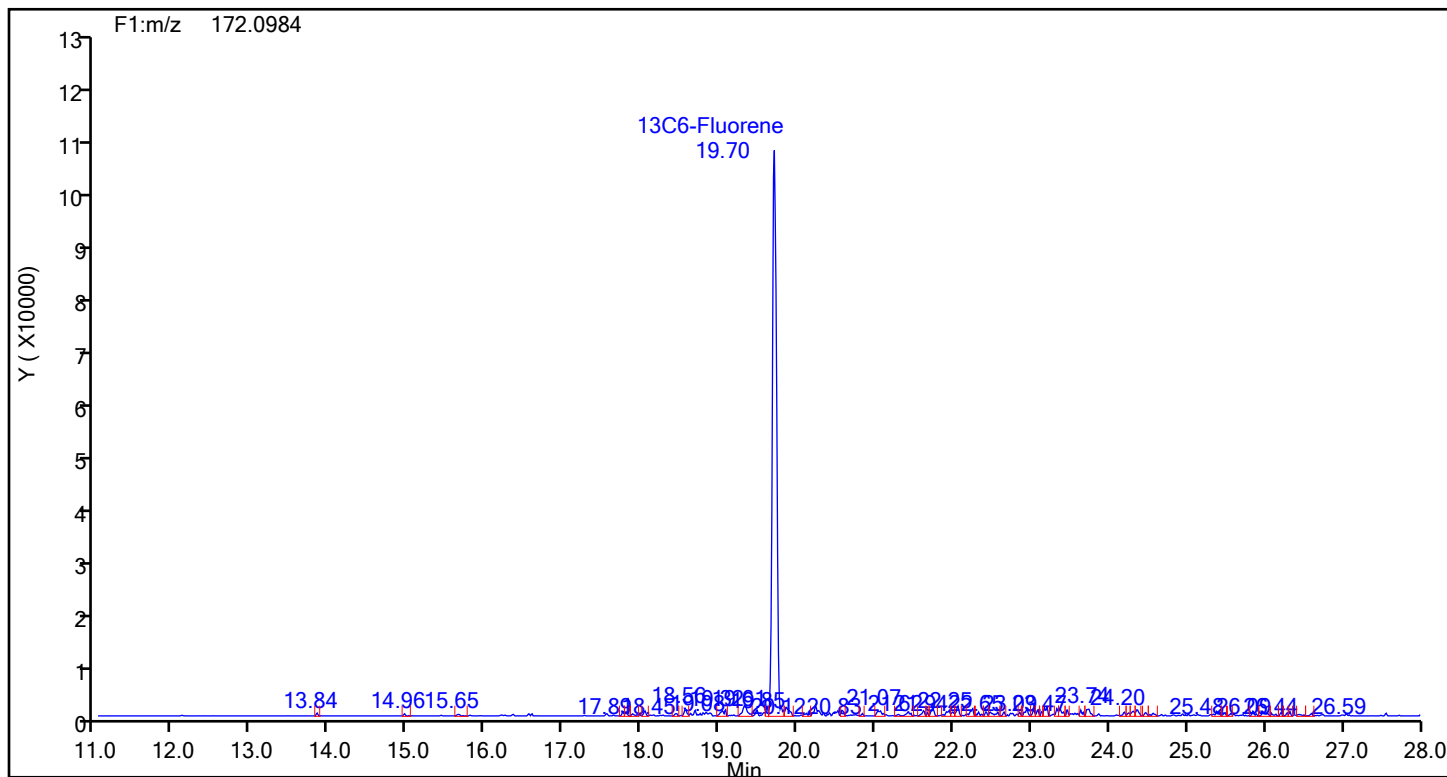
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



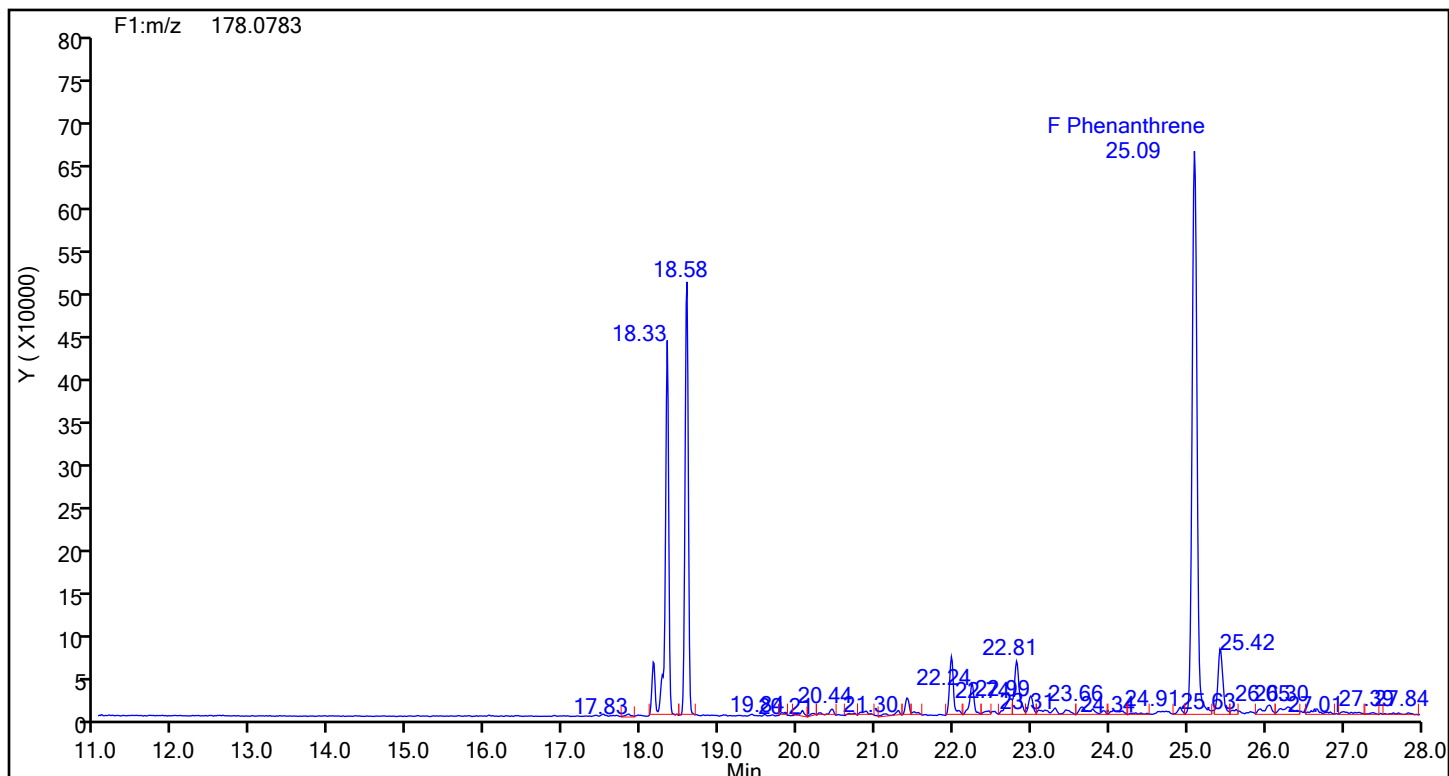
Fluorene Standards



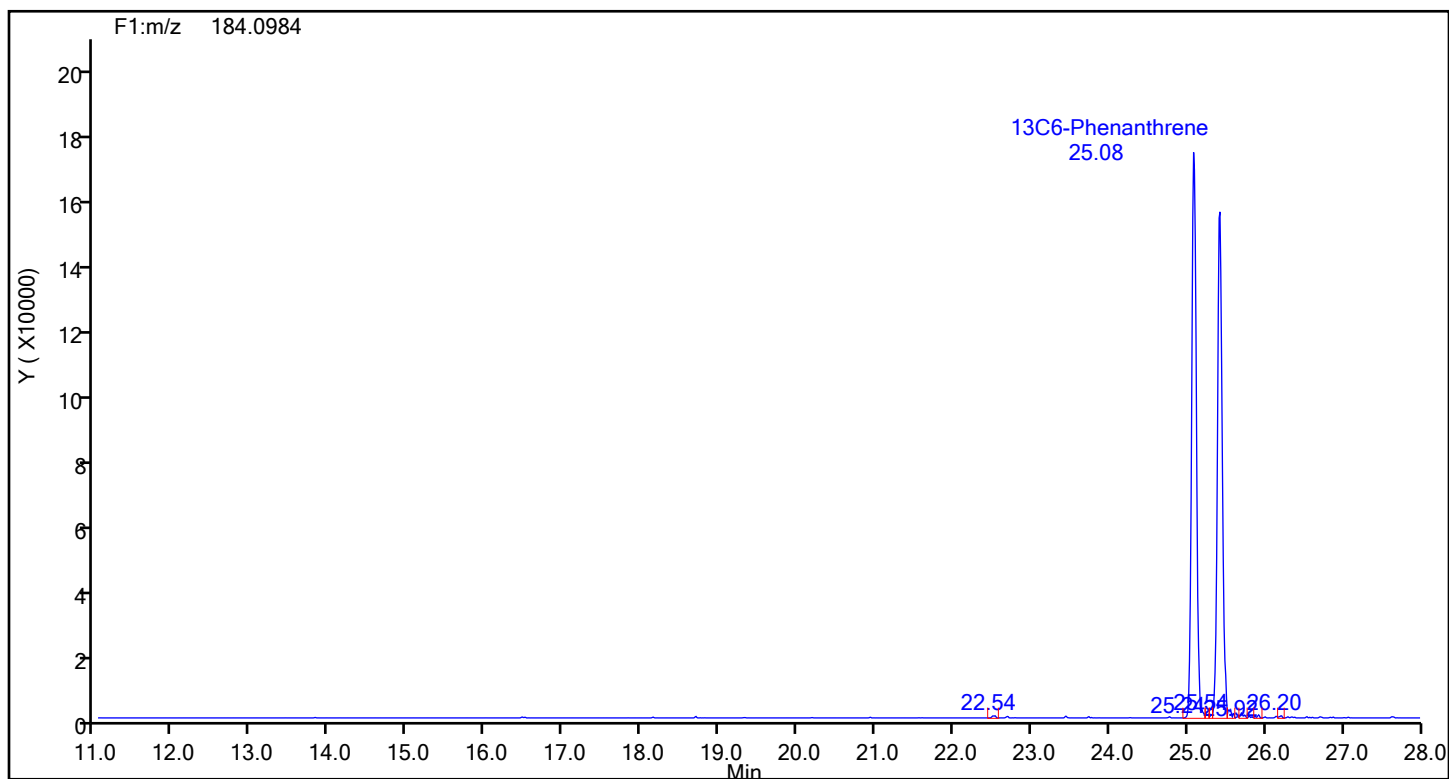
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

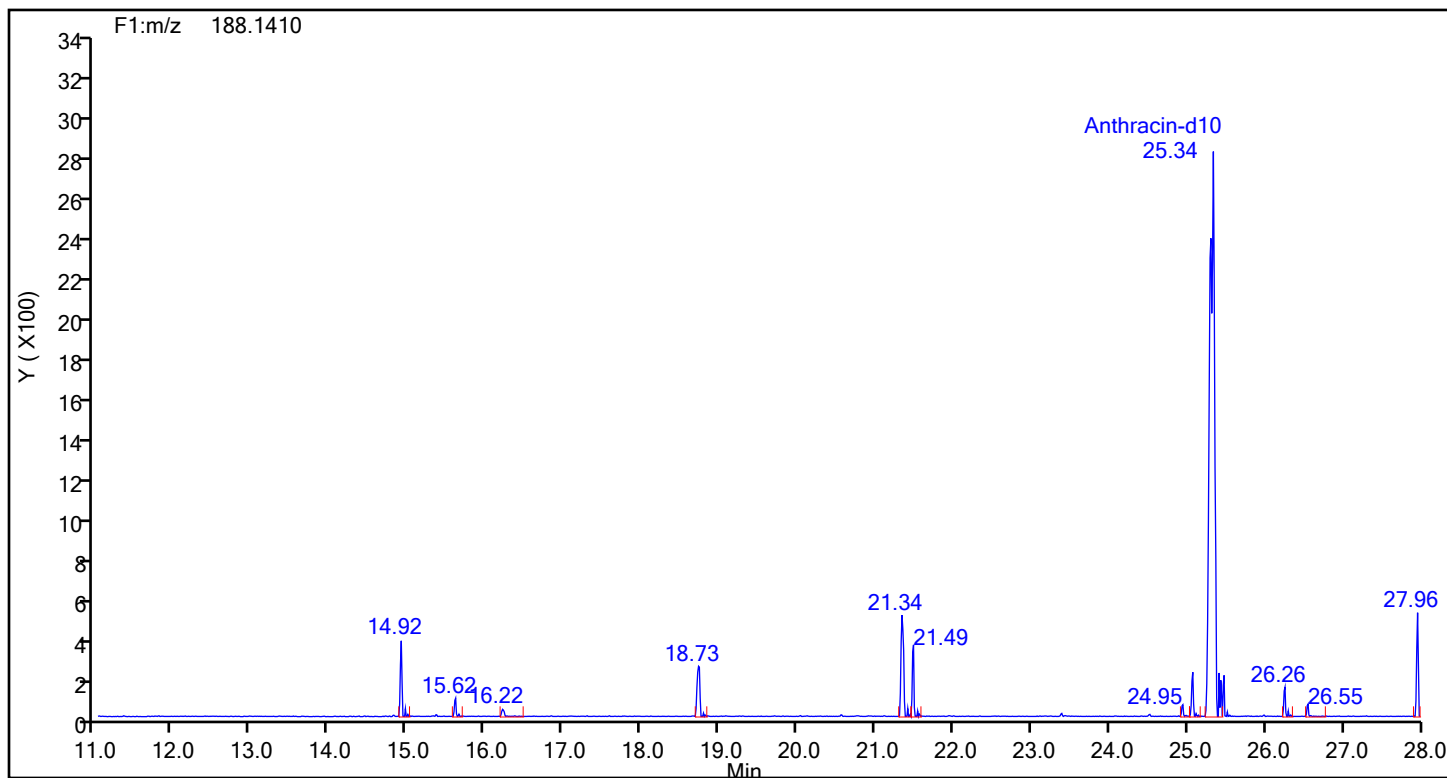


Phenanthrene Standards

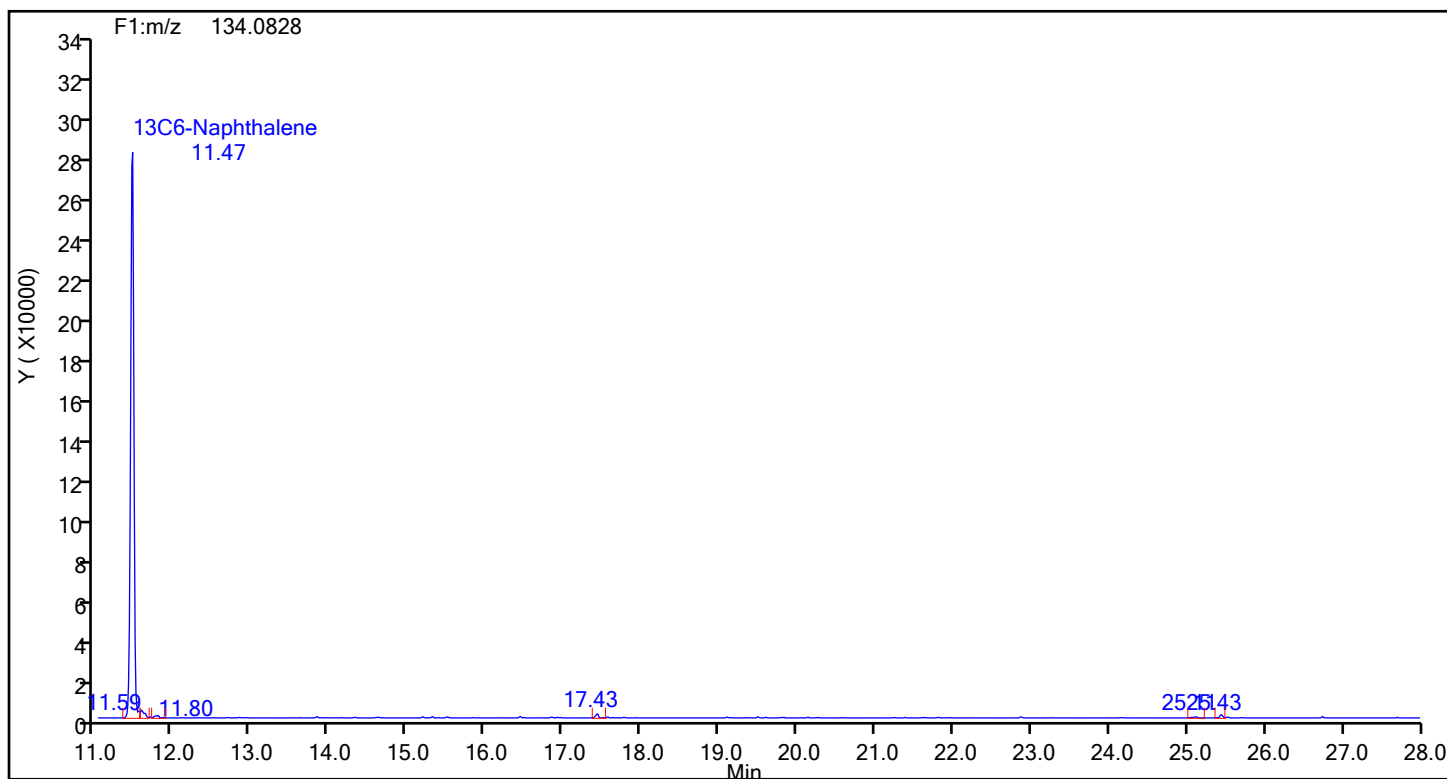


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

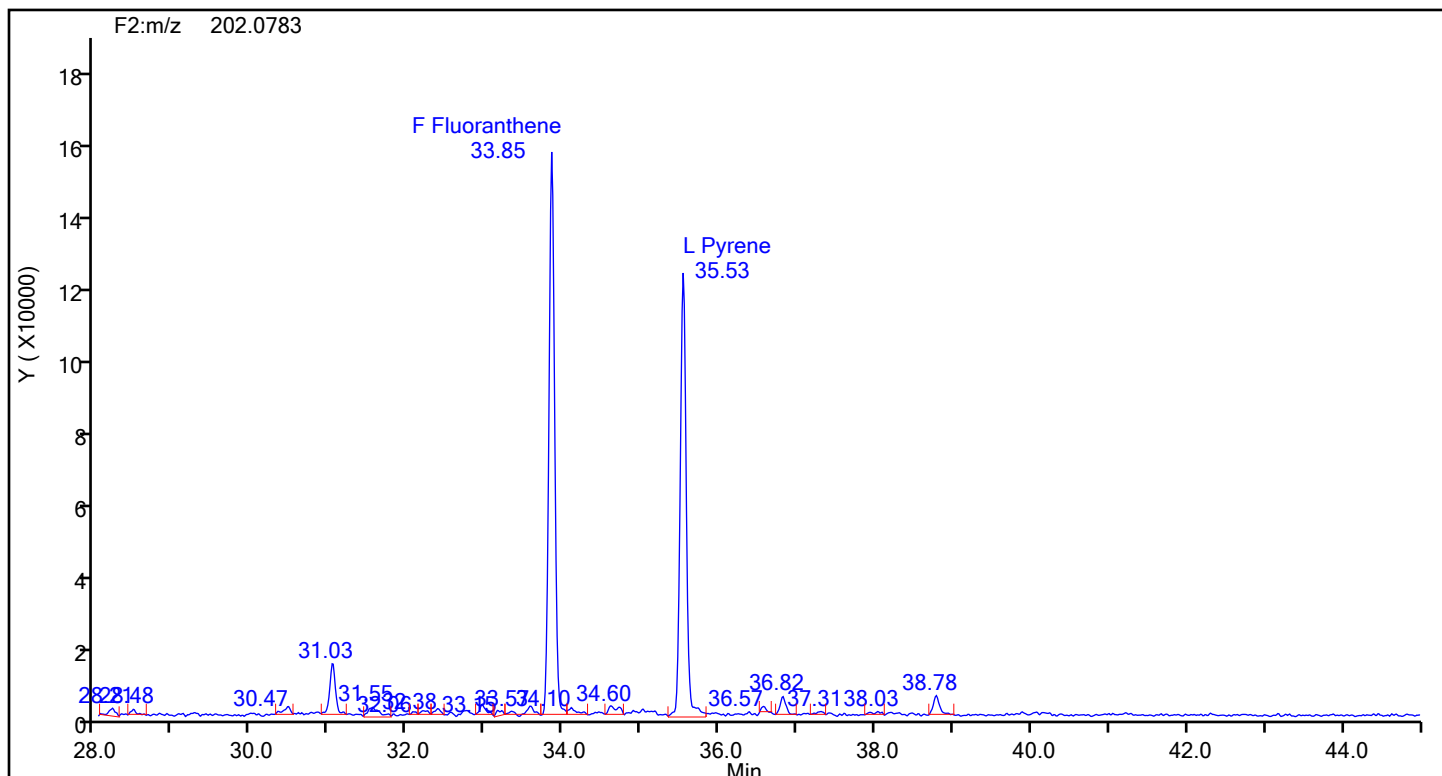


Anthracin-d10 Standards

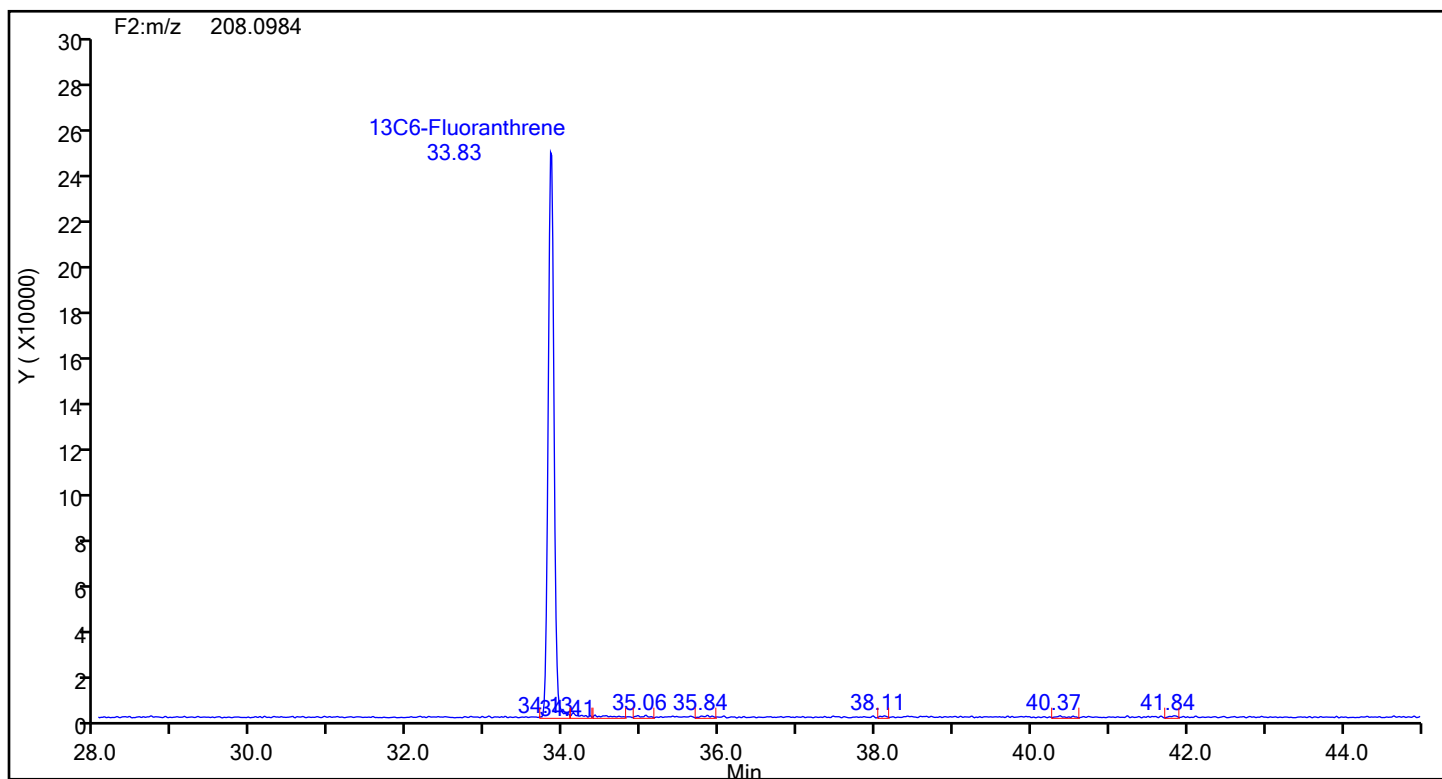


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d

Injection Date: 21-Jun-2024 22:33:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 3 COMBINED

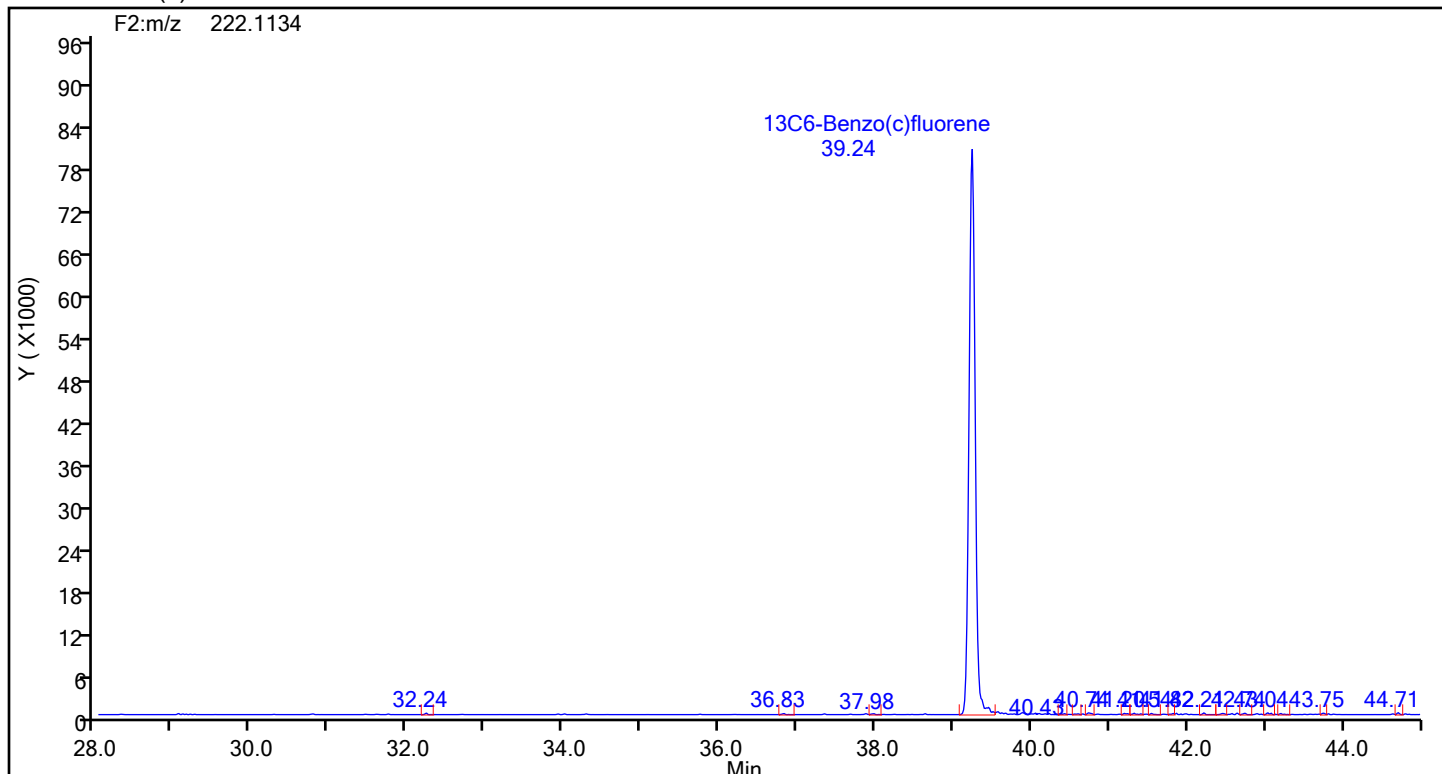
Worklist#: 87947

Sample Line#: 9

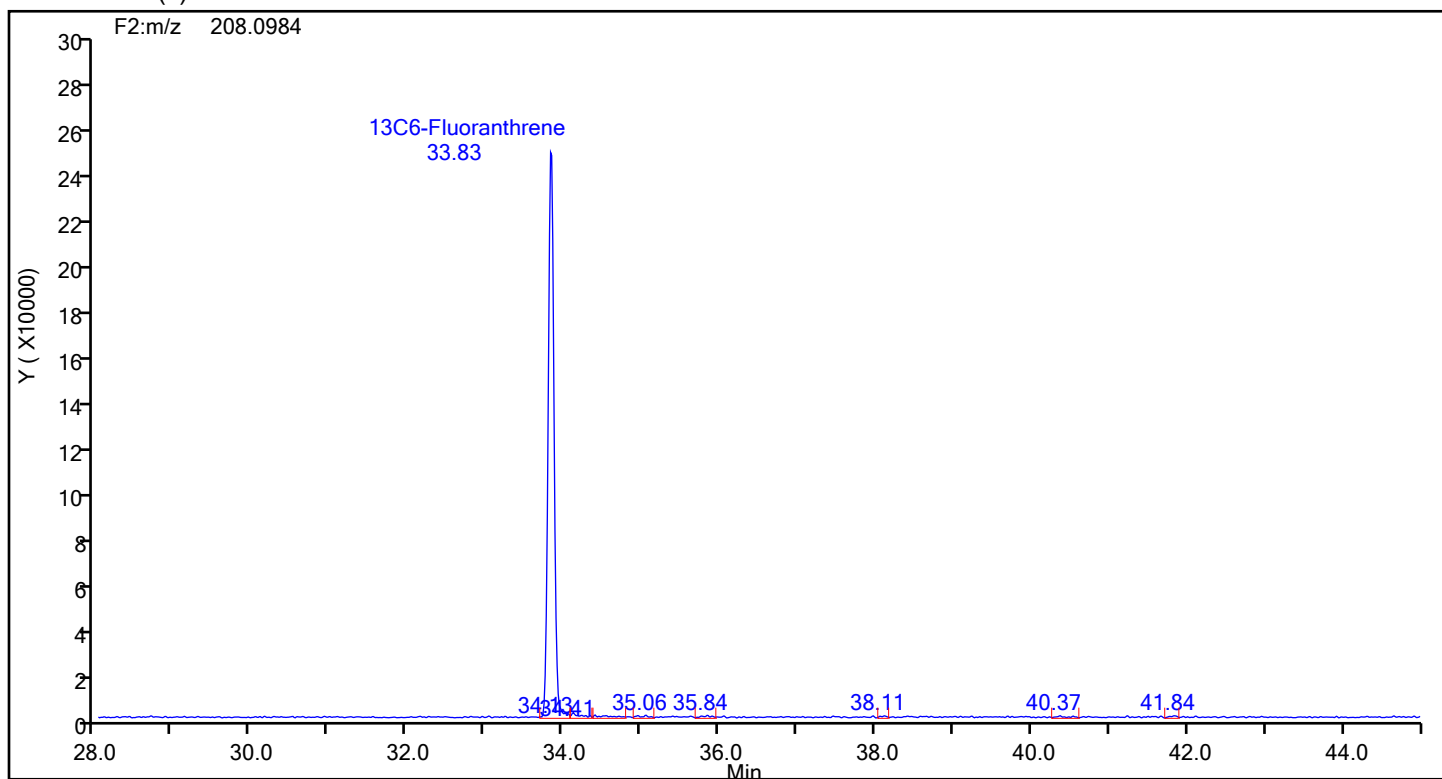
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



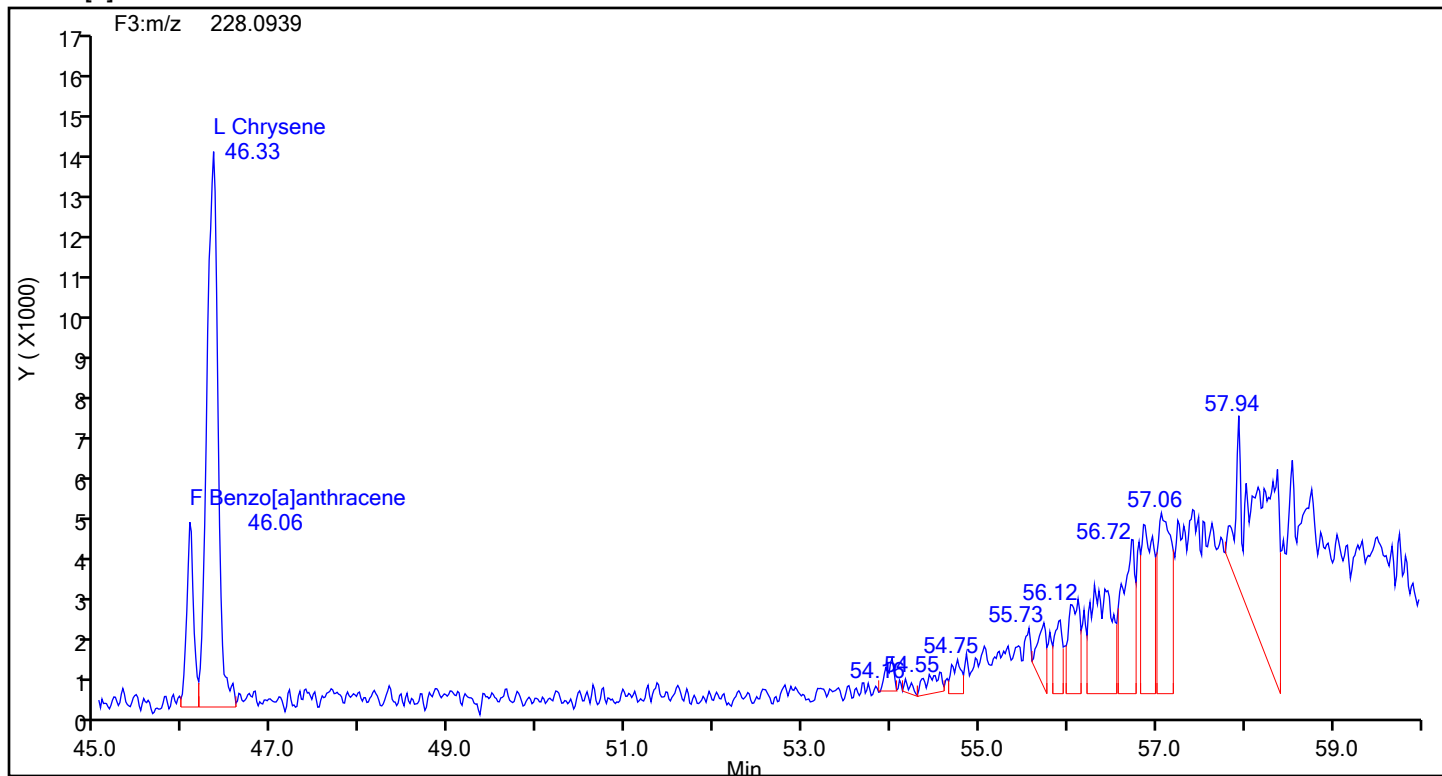
13C6-Benzo(c)fluorene Standards



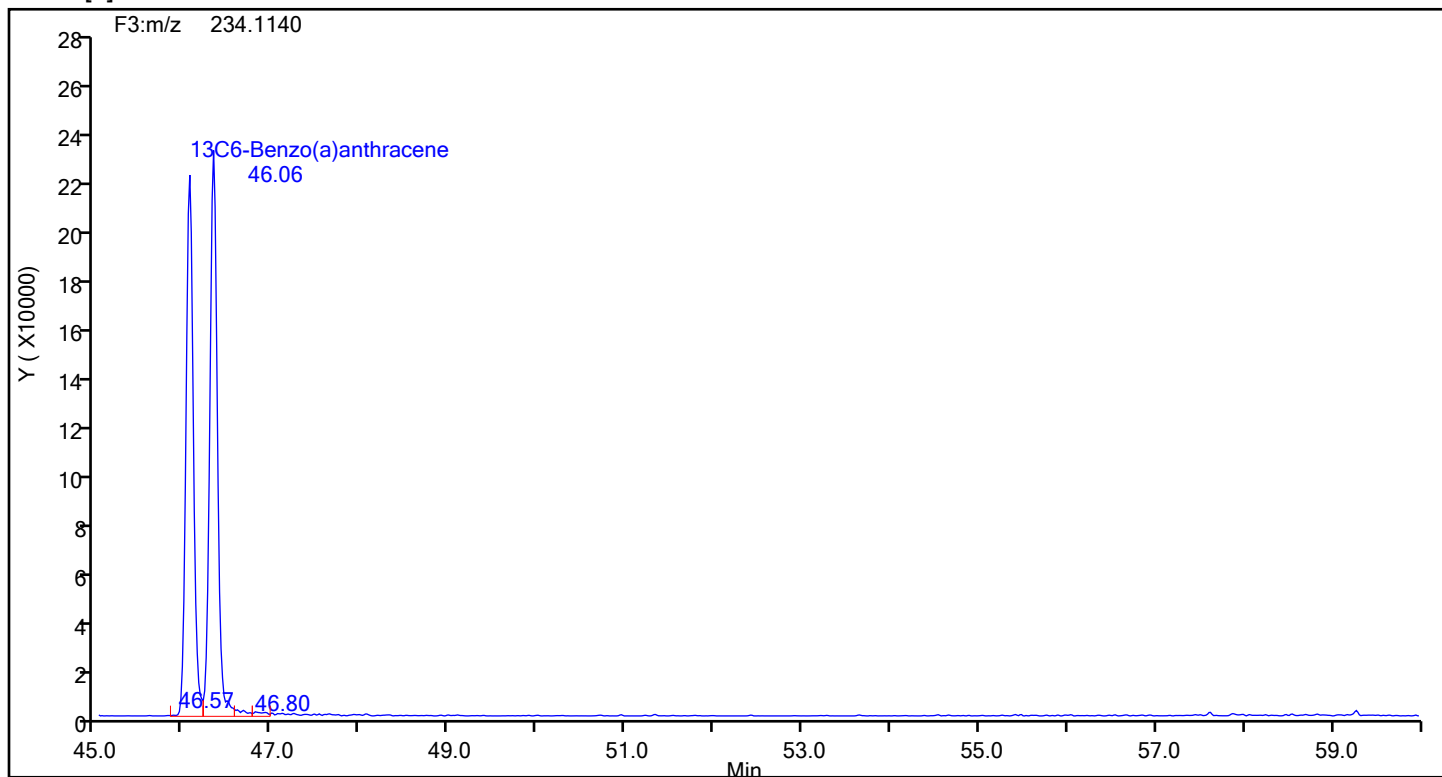
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



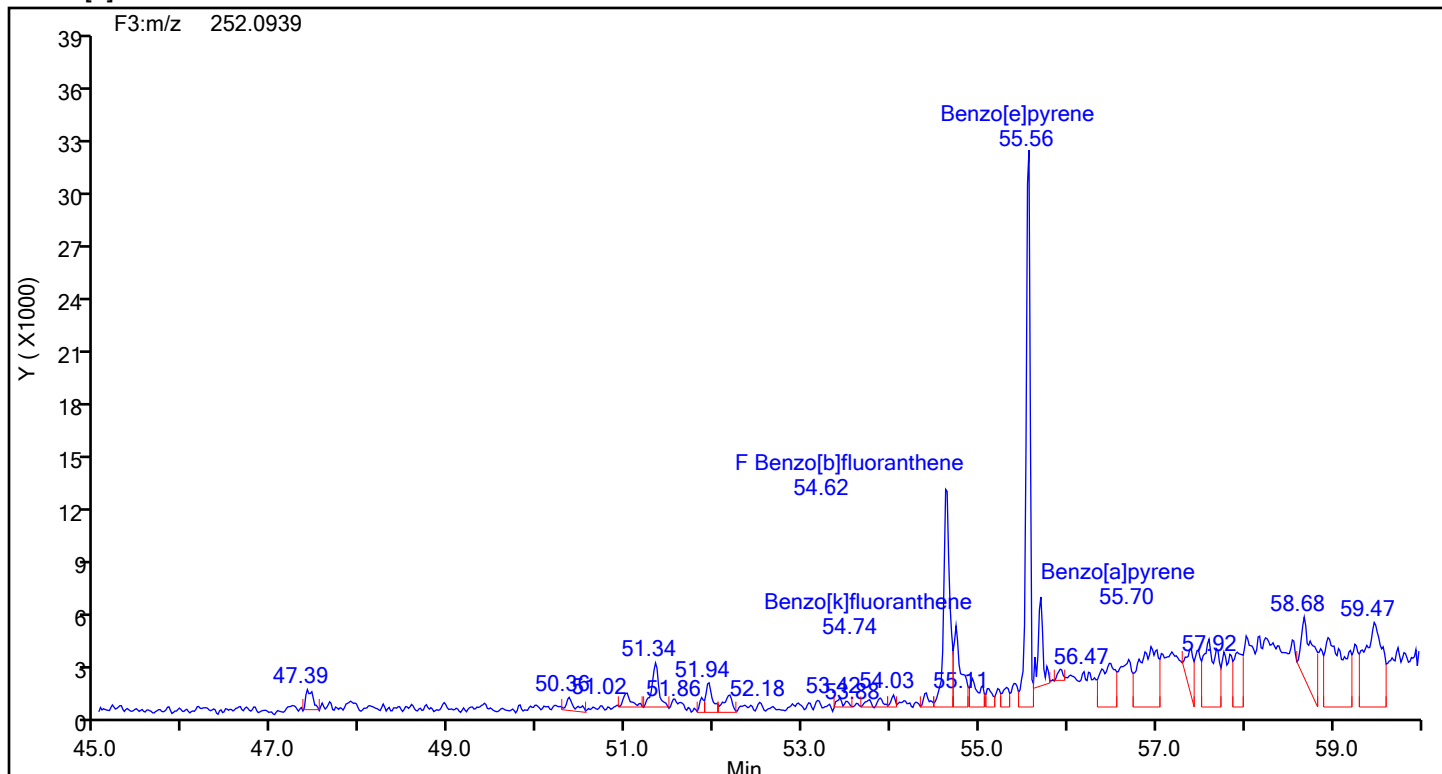
Benzo[a]anthracene Standards



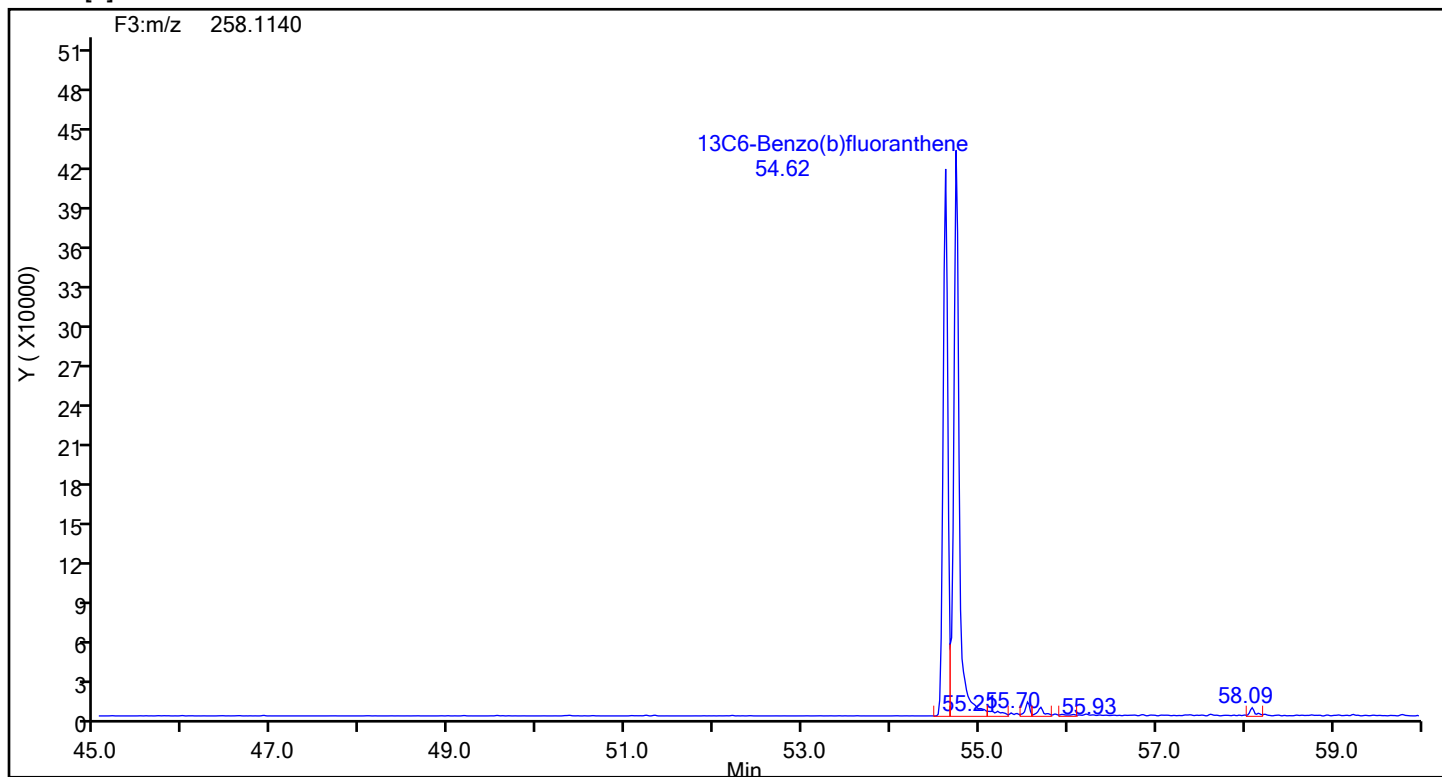
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

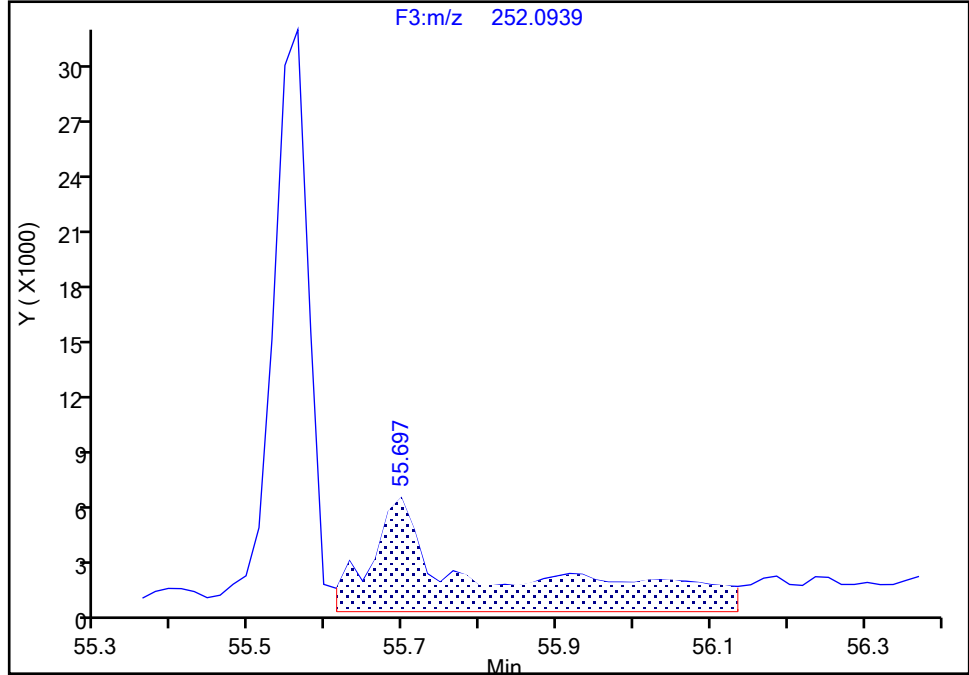
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-3-D Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

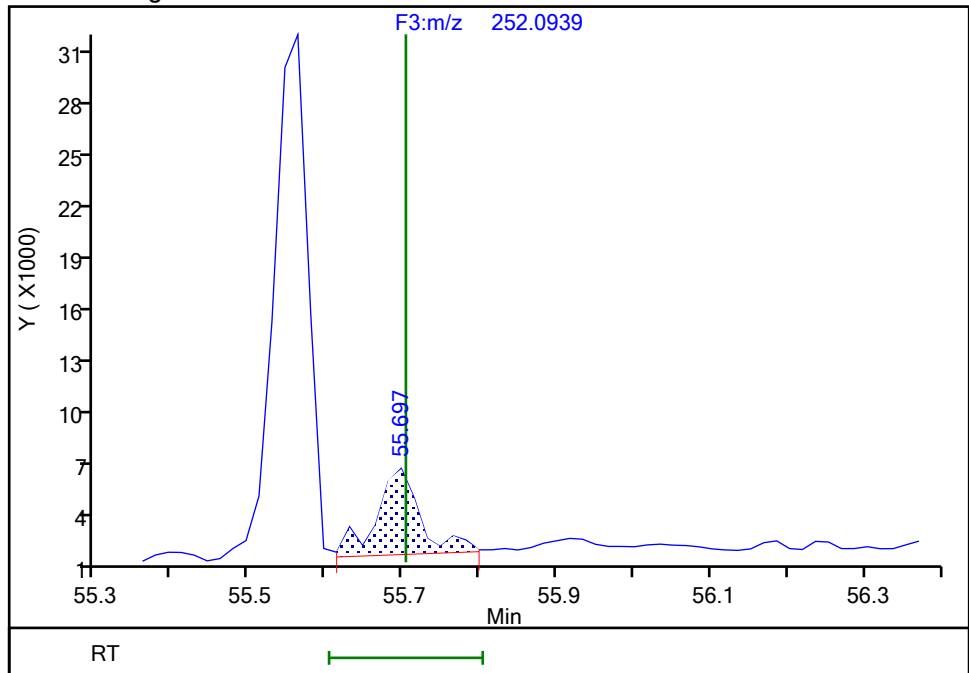
RT: 55.70
Area: 66163
Amount: 3.824938
Amount Units: pg/ul

Processing Integration Results



RT: 55.70
Area: 20476
Amount: 1.183735
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 15:04:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

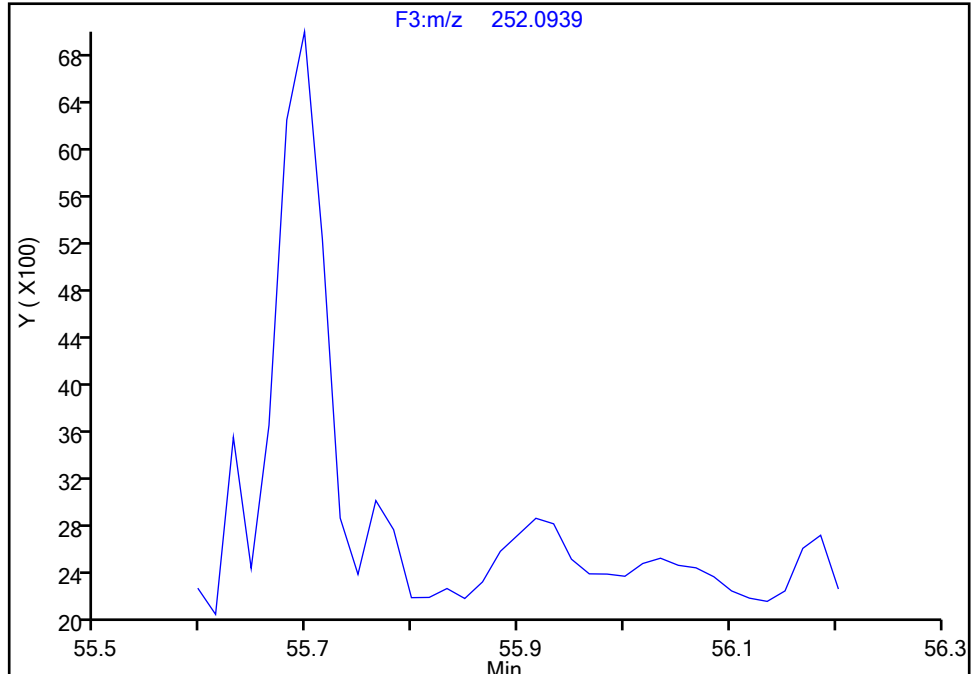
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-3-D Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

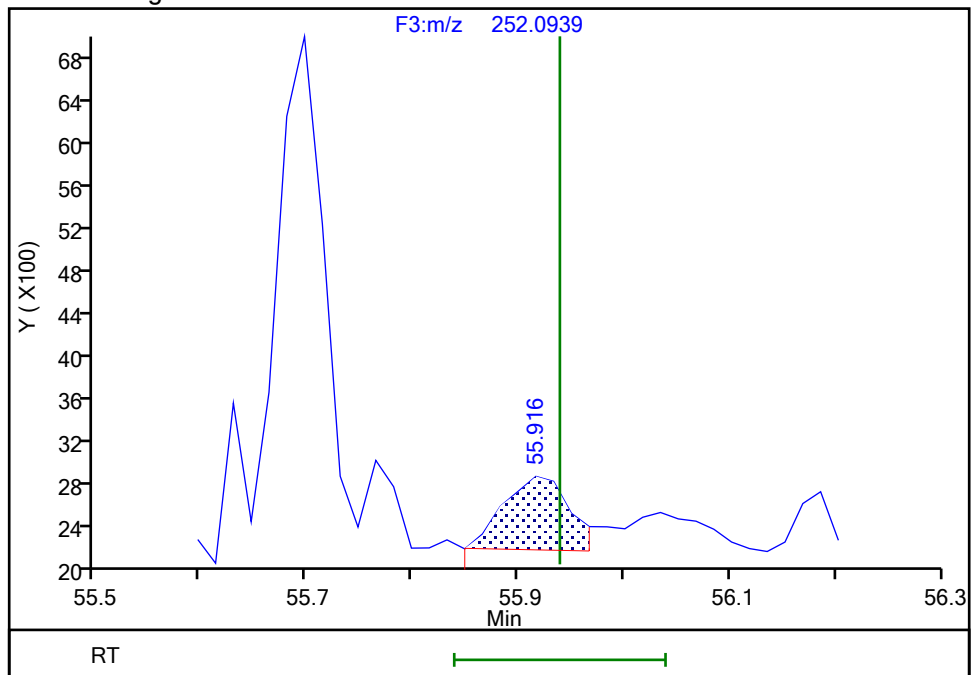
Not Detected
Expected RT: 55.94

Processing Integration Results



RT: 55.92
Area: 2993
Amount: 0.192262
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 15:03:17 -04:00:00 (UTC)

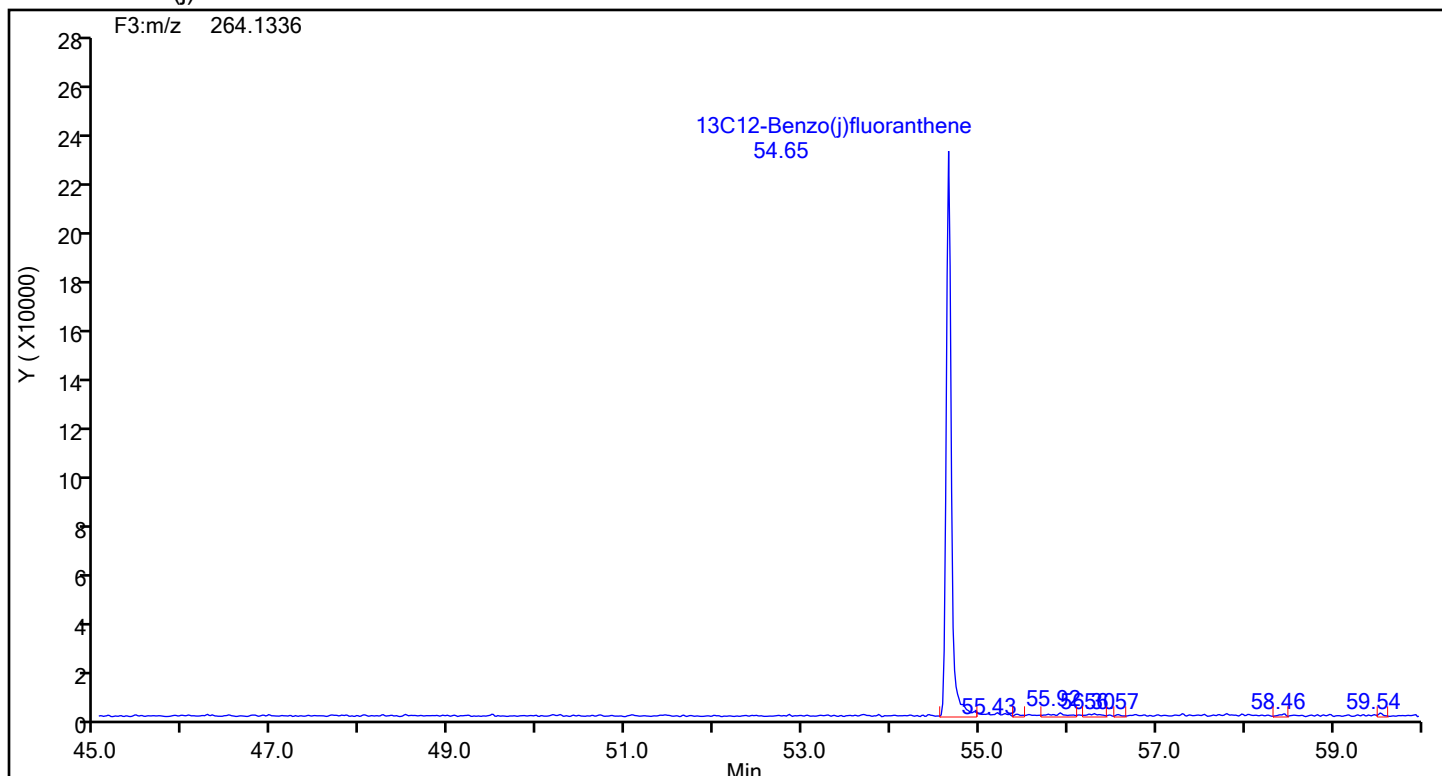
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

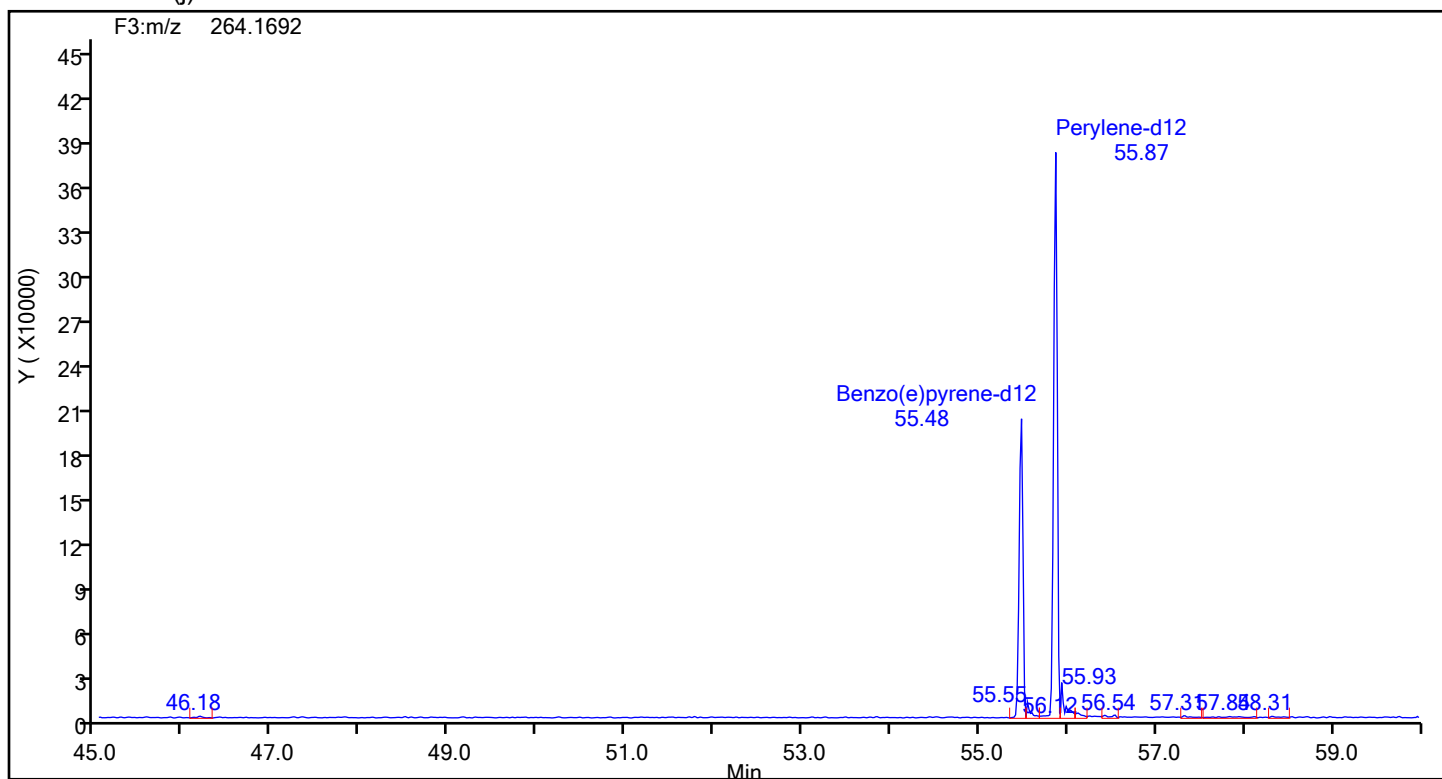
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



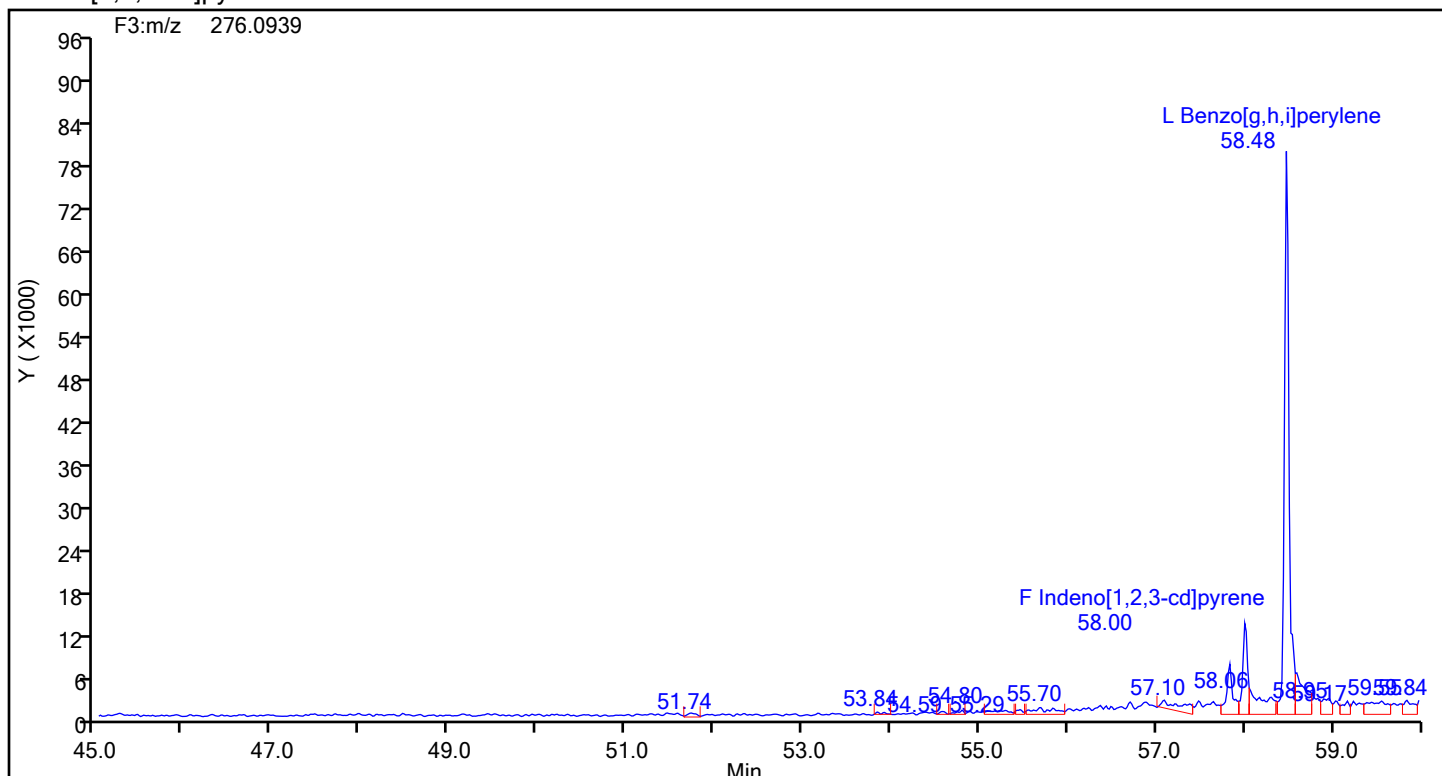
13C12-Benzo(j)fluoranthene Standards



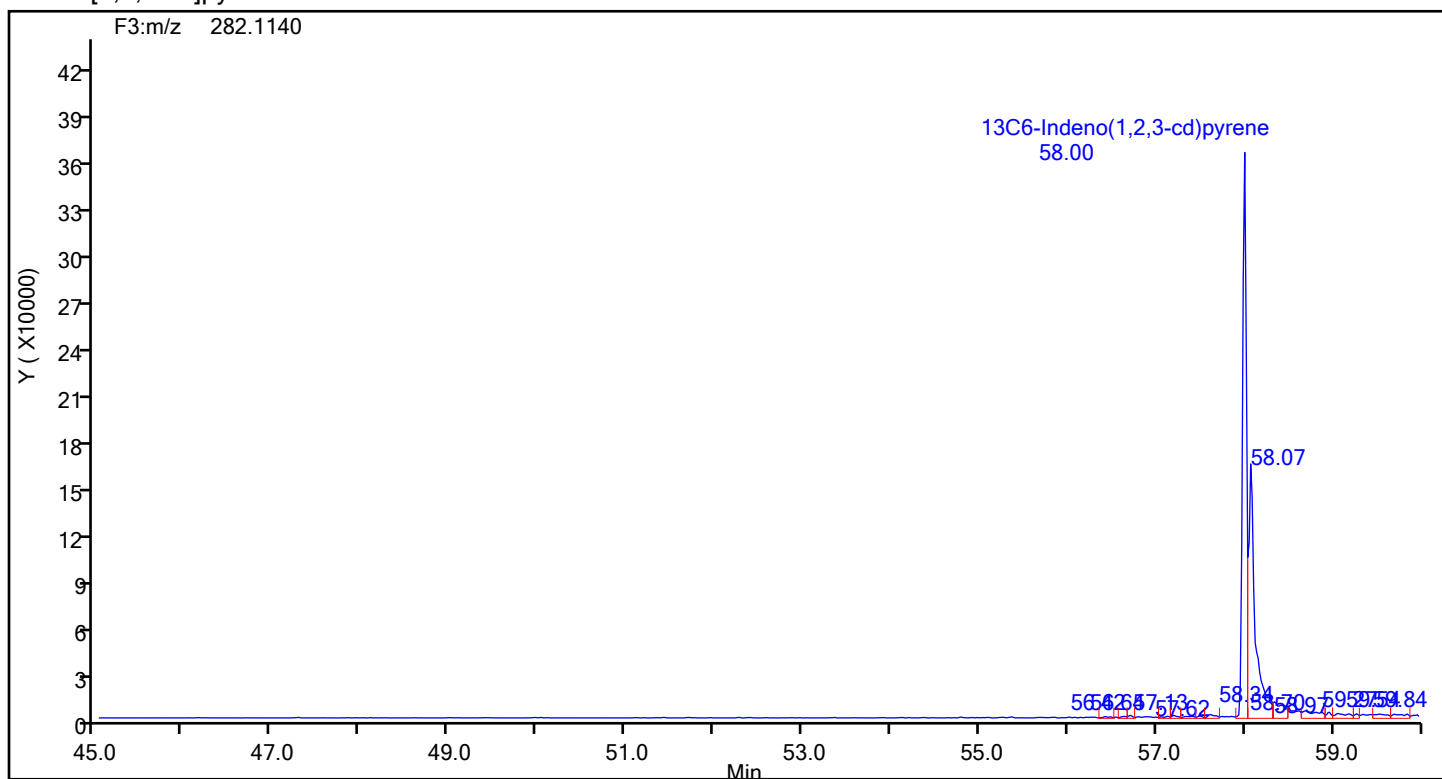
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

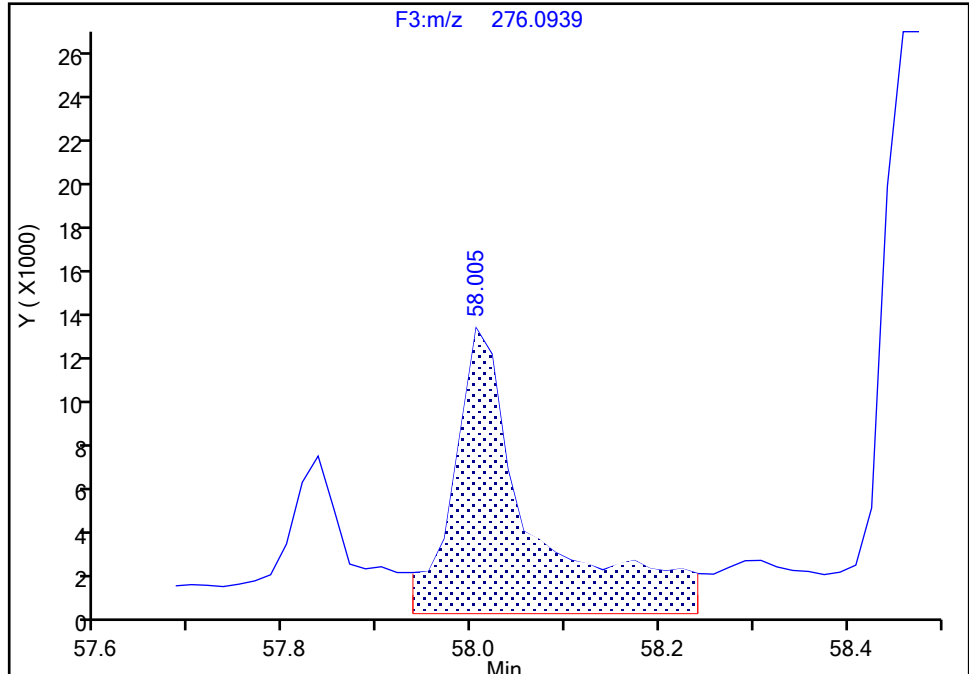
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-3-D Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

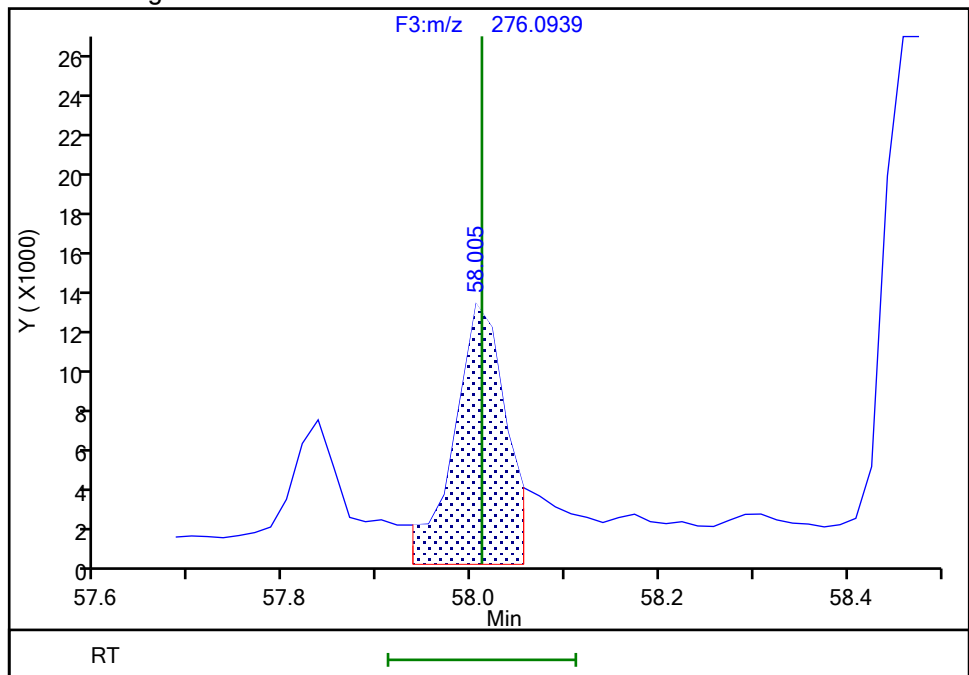
RT: 58.00
Area: 74310
Amount: 6.134162
Amount Units: pg/ul

Processing Integration Results



RT: 58.00
Area: 50765
Amount: 4.190563
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 15:04:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

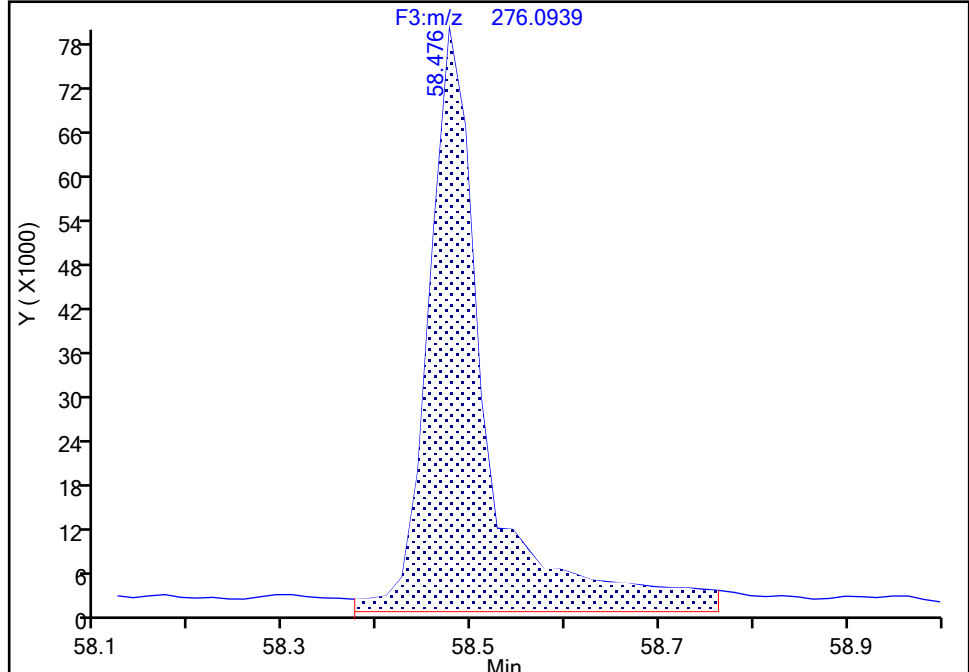
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-3-D Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

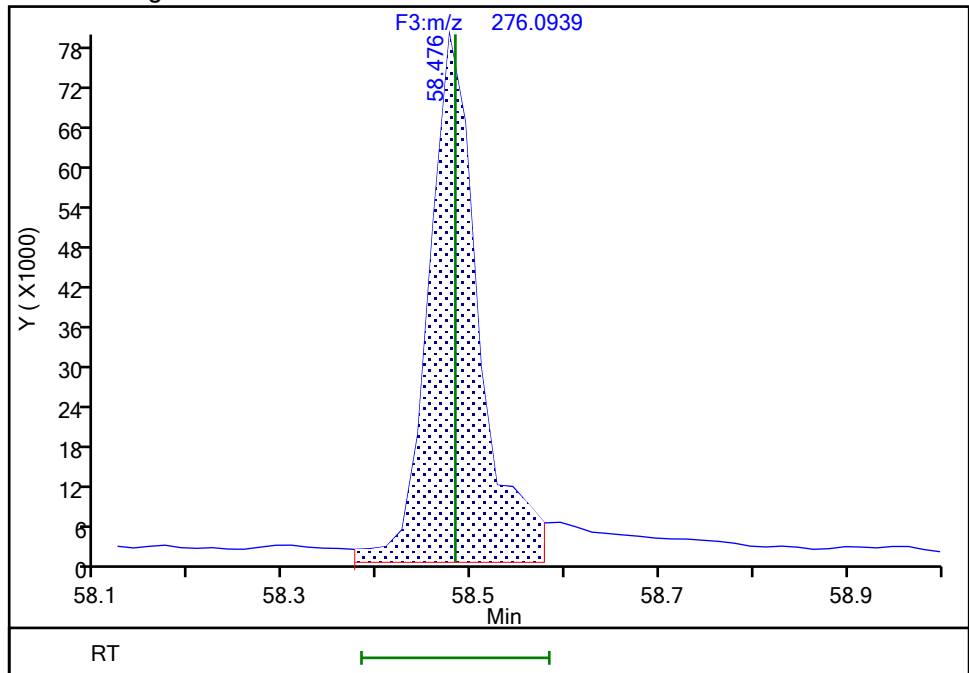
RT: 58.48
Area: 337860
Amount: 19.492931
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 296108
Amount: 17.084037
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 15:05:22 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

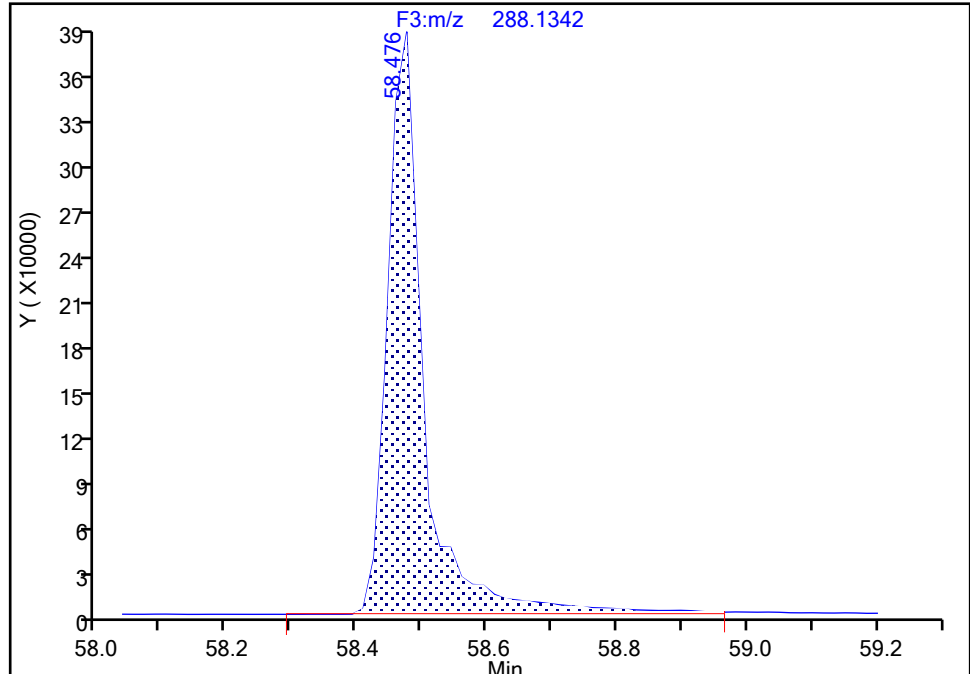
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-3-D Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

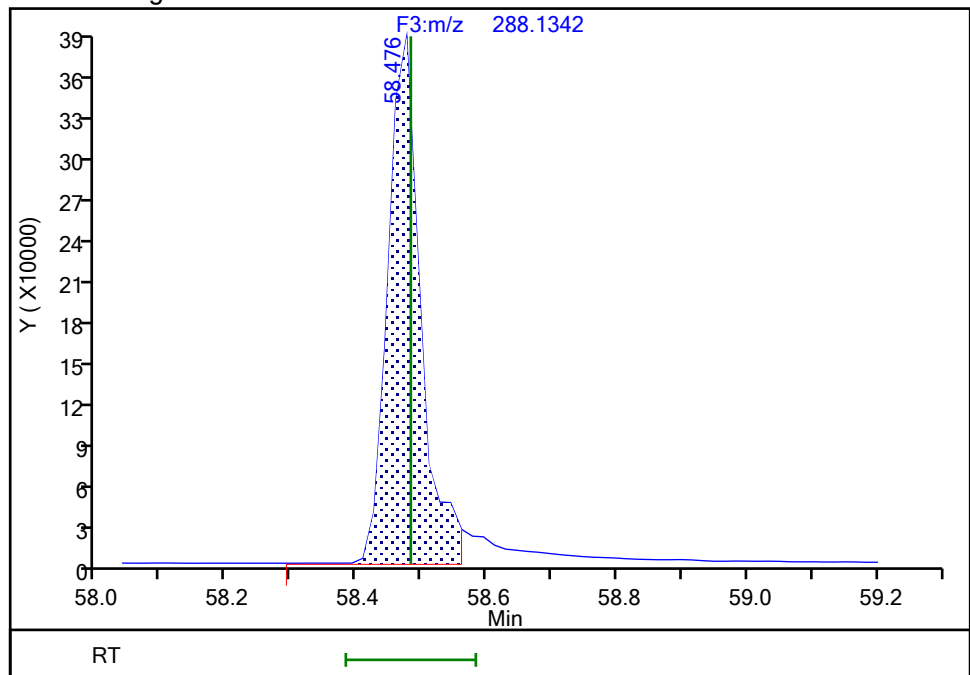
RT: 58.48
Area: 1499931
Amount: 98.660735
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 1350135
Amount: 88.807626
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 15:05:17 -04:00:00 (UTC)

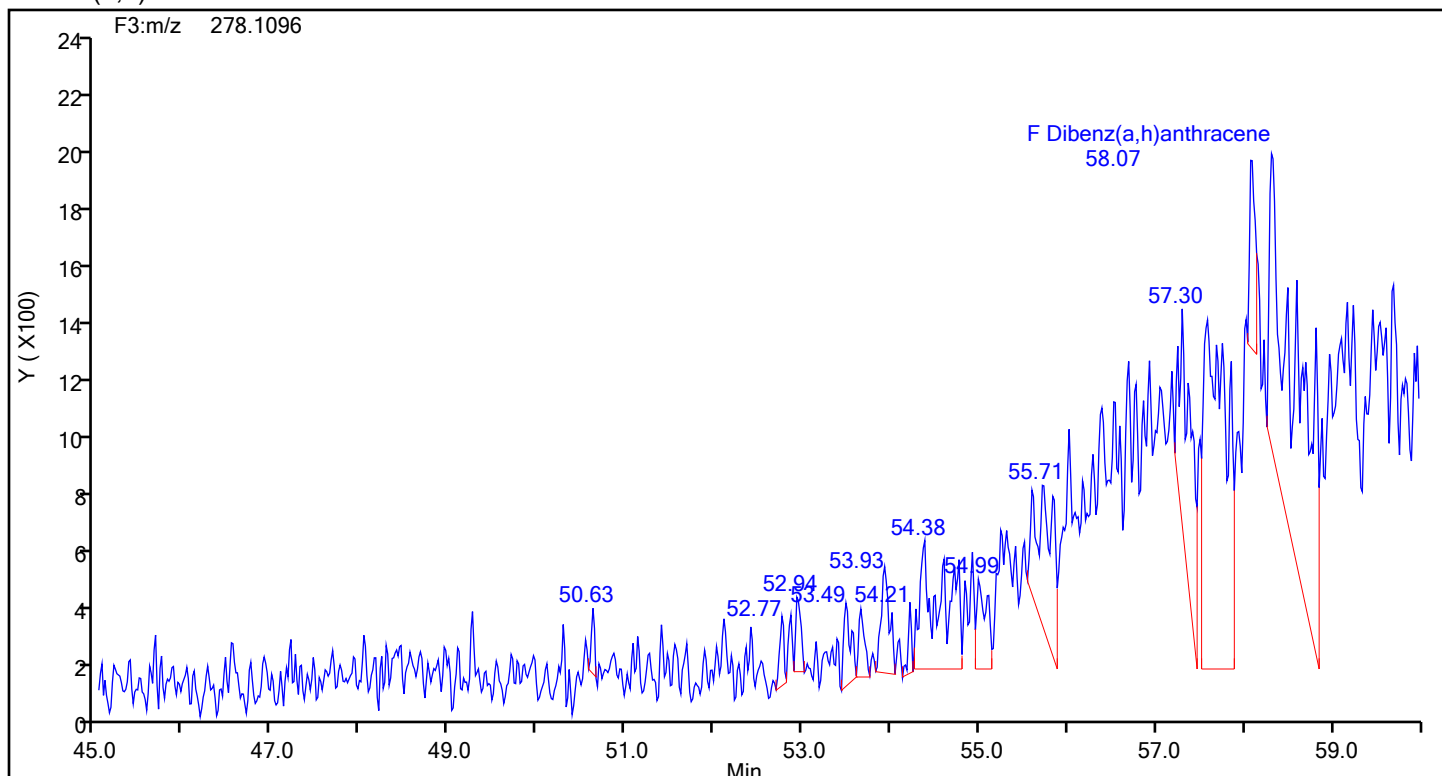
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

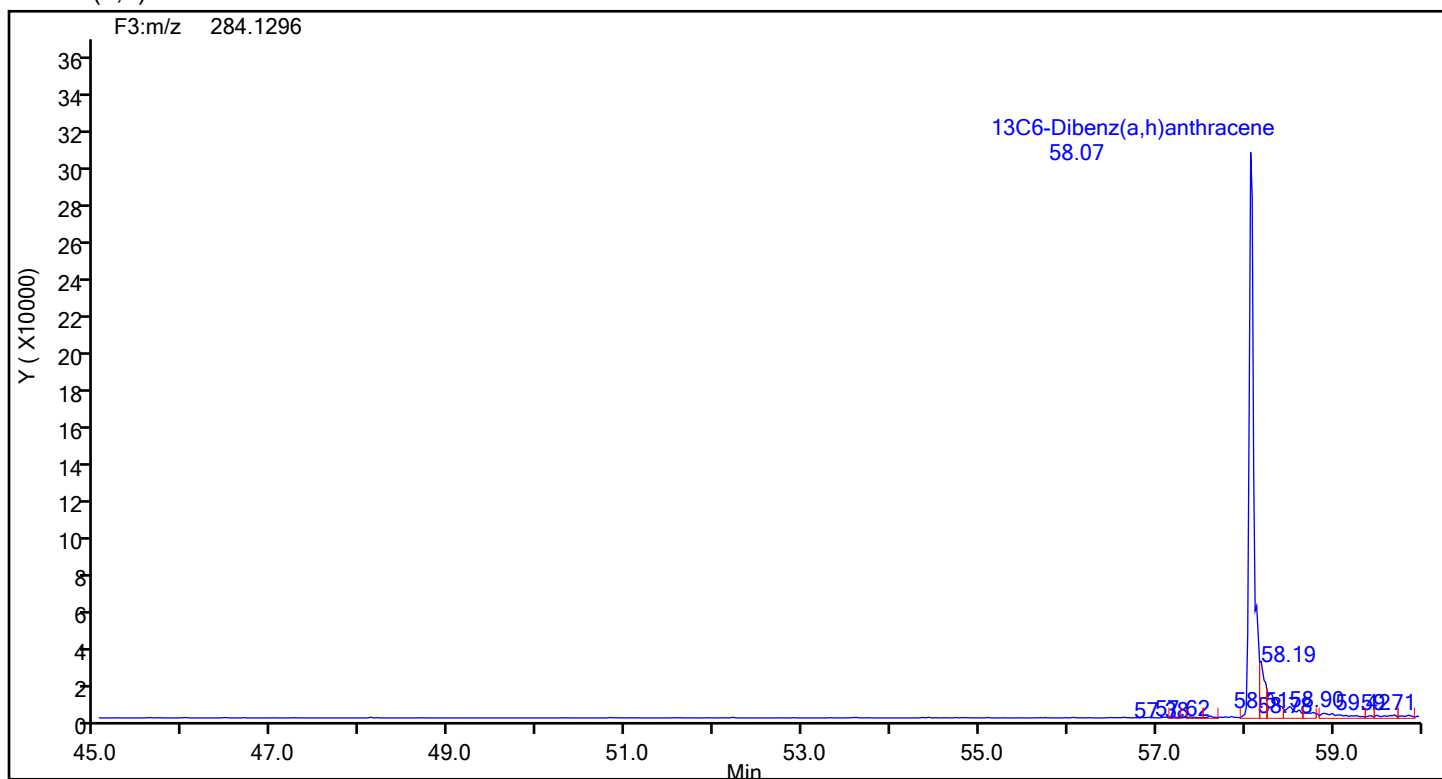
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87947 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenzo(a,h)anthracene Standards



Eurofins Knoxville

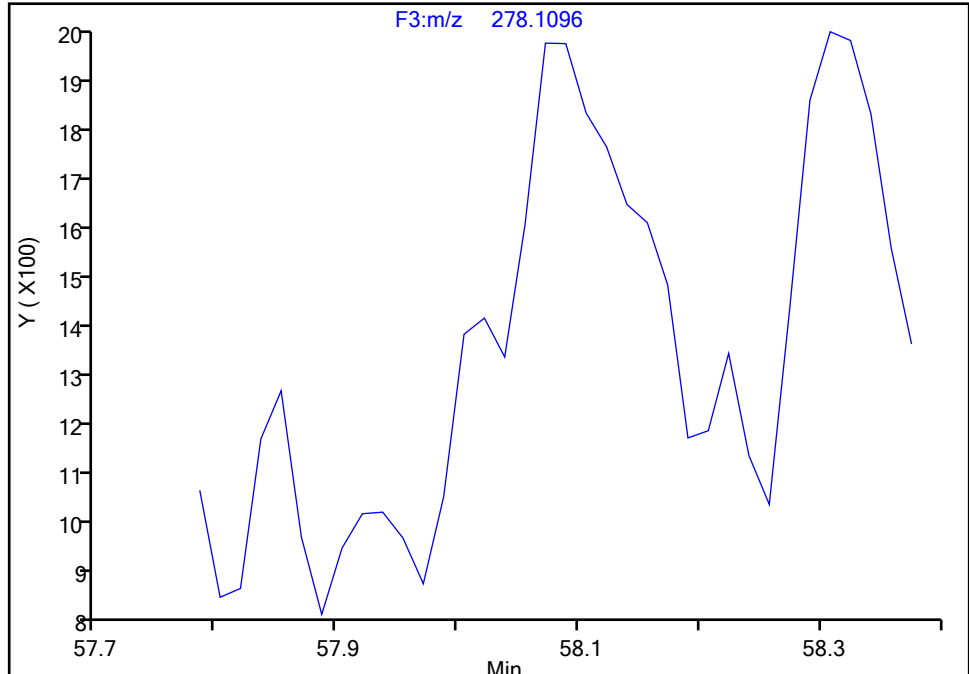
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-3-D Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

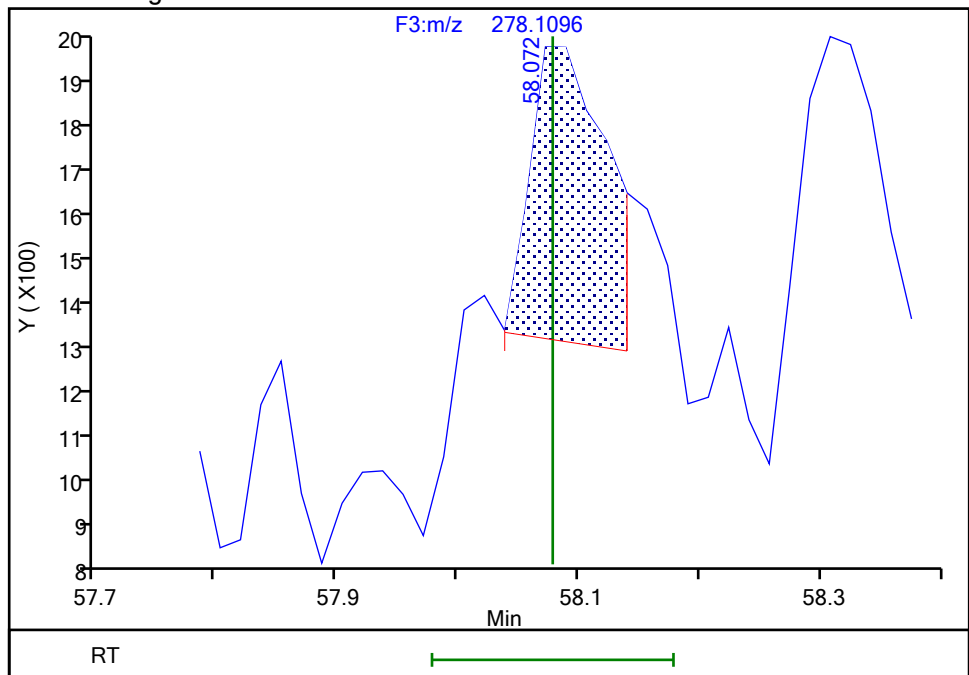
Not Detected
Expected RT: 58.08

Processing Integration Results



RT: 58.07
Area: 2823
Amount: 0.214988
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 15:03:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

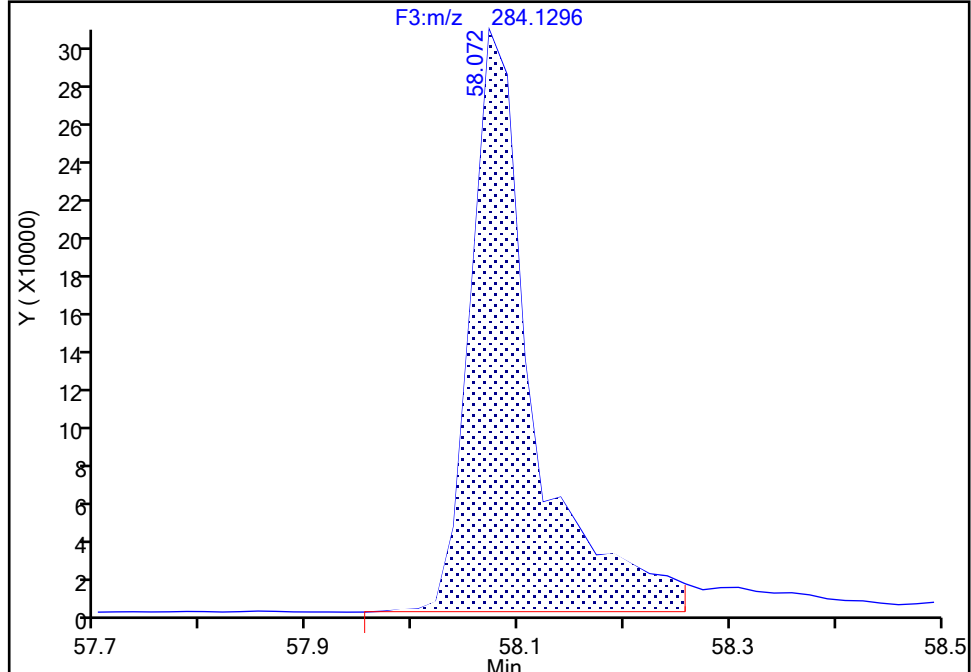
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Injection Date: 21-Jun-2024 22:33:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-3-D Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

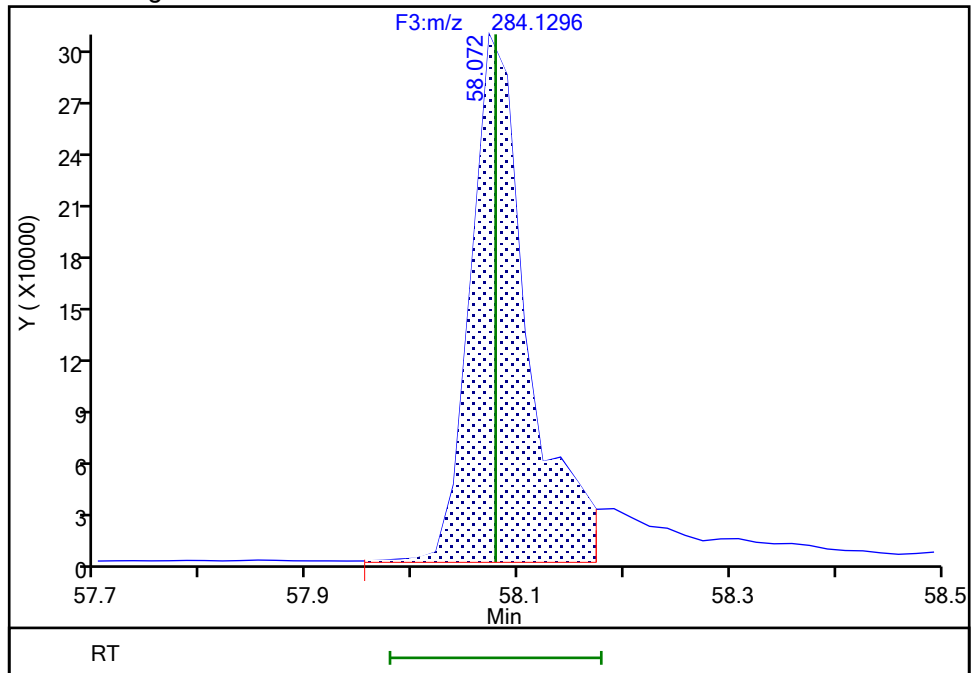
RT: 58.07
Area: 1265838
Amount: 100.5902
Amount Units: pg/ul

Processing Integration Results



RT: 58.07
Area: 1160620
Amount: 92.229005
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 15:05:09 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-3-d.d
Lims ID: 140-36689-A-3-D
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Sample Type: Client
Inject. Date: 21-Jun-2024 22:33:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033215-009
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 24-Jun-2024 15:07:58 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1661

First Level Reviewer: F9EE

Date: 24-Jun-2024 15:05:26

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	2.18	21.79
13C6-Benzo(c)fluorene	66.7	64.1	96.22
13C12-Benzo(j)fluoranthene	66.7	57.7	86.54

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 4</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-4-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/08/2024 19:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/21/2024 23:38</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87947</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	515	B	75.0	75.0	0.807
91-57-6	2-Methylnaphthalene	628	B	75.0	75.0	0.173
208-96-8	Acenaphthylene	18.3	B	3.00	3.00	0.0986
83-32-9	Acenaphthene	57.9	B	30.0	30.0	0.155
86-73-7	Fluorene	163	B	30.0	30.0	0.261
85-01-8	Phenanthrene	783	B	6.00	6.00	0.408
120-12-7	Anthracene	62.6	B	30.0	30.0	0.336
206-44-0	Fluoranthene	85.0	B	6.00	6.00	0.127
129-00-0	Pyrene	103	B	6.00	6.00	0.139
56-55-3	Benzo[a]anthracene	1.77	J B	6.00	6.00	0.0389
218-01-9	Chrysene	7.32	B	6.00	6.00	0.0398
205-99-2	Benzo[b]fluoranthene	5.67	J B	30.0	30.0	0.0269
207-08-9	Benzo[k]fluoranthene	1.37	J B	6.00	6.00	0.0262
192-97-2	Benzo[e]pyrene	23.0	B	6.00	6.00	0.0267
50-32-8	Benzo[a]pyrene	3.01	B	3.00	3.00	0.0270
198-55-0	Perylene	0.595	J B	3.00	3.00	0.0260
193-39-5	Indeno[1,2,3-cd]pyrene	9.44	B	3.00	3.00	0.0228
53-70-3	Dibenz(a,h)anthracene	0.0756	J B	6.00	6.00	0.00980
191-24-2	Benzo[g,h,i]perylene	42.9	B	6.00	6.00	0.0186

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 4</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-4-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/08/2024 19:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/21/2024 23:38</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87947</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	50		20-130
STL03357	13C6-2-Methylnaphthalene	56		20-130
189811-56-1	13C6-Acenaphthylene	78		20-130
189811-57-2	13C6-Acenaphthene	76		20-130
STL00616	13C6-Fluorene	89		20-130
1397194-60-3	13C6-Fluoranthrene	87		20-130
1397214-90-2	13C3-Pyrene	77		20-130
917378-11-1	13C6-Benzo (a) anthracene	79		20-130
1397177-72-8	13C6-Chrysene	77		20-130
STL03358	13C6-Benzo (b) fluoranthene	90		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	86		20-130
STL03382	13C4-Benzo (e) pyrene	75		20-130
STL03359	13C4-Benzo (a) pyrene	81		20-130
1520-96-3	Perylene-d12	72		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	96		20-130
STL03360	13C6-Dibenz (a,h) anthracene	88		20-130
350820-11-0	13C12-Benzo (ghi) perylene	87		20-130
189811-60-7	13C6-Anthracene	118		20-130
1189955-53-0	13C6-Phenanthrene	97		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Lims ID: 140-36689-A-4-D
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Sample Type: Client
Inject. Date: 21-Jun-2024 23:38:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033215-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 26-Jun-2024 02:45:14 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1677

First Level Reviewer: F9EE

Date: 24-Jun-2024 15:07:58

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	4408496		3.3746	49.6	49.6	0.006329	0.006329	49.57	
Naphthalene	11:33	19495159		1.2893	343.0	343.0	0.5378	0.5378		
D 13C6-2-Methylnaphthalene	13:52	2379347		1.6031	56.3	56.3	0.007857	0.007857	56.31	
2-Methylnaphthalene	13:53	12741526		1.2786	418.8	418.8	0.1150	0.1150		
D 13C6-Acenaphthylene	16:45	3389718		1.6520	77.8	77.8	0.007757	0.007757	77.85	
Acenaphthylene	16:45	569293		2.3661	12.2	12.2	0.0657	0.0657		
* Acenaphthene-d10	17:19	1317843		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:26	1968296		0.9792	76.3	76.3	0.0114	0.0114	76.27	
Acenaphthene	17:27	963973		1.2697	38.6	38.6	0.1034	0.1034		
D 13C6-Fluorene	19:44	2081169		0.8898	88.7	88.7	0.0329	0.0329	88.74	
Fluorene	19:44	2829754		1.2532	108.5	108.5	0.1738	0.1738		
D 13C6-Phenanthrene	25:07	3675819		0.5724	96.9	96.9	0.008700	0.008700	96.93	
Phenanthrene	25:07	21188117		1.1044	521.9	521.9	0.2722	0.2722		
\$ Anthracin-d10	25:19	50067		0.4257	1.775	1.775	0.008868	0.008868	17.75	a
D 13C6-Anthracene	25:26	3532813		0.4523	117.9	117.9	0.0110	0.0110	118	
Anthracene	25:27	2004411		1.3586	41.8	41.8	0.2238	0.2238		
D 13C6-Fluoranthrene	33:52	6906130		1.1994	86.9	86.9	0.0258	0.0258	86.91	
Fluoranthene	33:52	4507302		1.1513	56.7	56.7	0.0844	0.0844		
* Pyrene-d10	35:24	3312585		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:34	6919733		1.3512	77.3	77.3	0.0178	0.0178	77.30	
Pyrene	35:34	5085772		1.0652	69.0	69.0	0.0928	0.0928		
\$ 13C6-Benzo(c)fluorene	39:15	2429178		0.5136	71.4	71.4	0.009697	0.009697	107	
D 13C6-Benzo(a)anthracene	46:05	6728024		1.5189	79.3	79.3	0.0198	0.0198	79.29	
Benzo[a]anthracene	46:06	77218		0.9739	1.179	1.179	0.0259	0.0259		
D 13C6-Chrysene	46:22	6990183		1.6287	76.8	76.8	0.0185	0.0185	76.83	
Chrysene	46:22	334975		0.9815	4.883	4.883	0.0265	0.0265		
D 13C6-Benzo(b)fluoranthene	54:39	7318068		1.4621	89.6	89.6	0.005098	0.005098	89.60	
Benzo[b]fluoranthene	54:39	310936		1.1249	3.777	3.777	0.0180	0.0180		
\$ 13C12-Benzo(j)fluoranthene	54:41	4448754		1.3558	58.7	58.7	0.0128	0.0128	88.11	
D 13C6-Benzo(k)fluoranthene	54:46	8391892		1.7507	85.8	85.8	0.004257	0.004257	85.81	
Benzo[k]fluoranthene	54:46	86074		1.1271	0.9100	0.9100	0.0175	0.0175		
* Benzo(e)pyrene-d12	55:30	2793065		5.7E+04	50.0	50.0				
Benzo[e]pyrene	55:35	1047354		1.0013	15.3	15.3	0.0178	0.0178		
D 13C4-Benzo(e)pyrene	55:35	6833616		1.6368	74.7	74.7	0.0151	0.0151	74.74	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:44	7000401		1.5508	80.8	80.8	0.0159	0.0159	80.81	
Benzo[a]pyrene	55:44	156595		1.1130	2.010	2.010	0.0180	0.0180		
D Perylene-d12	55:54	4763891		1.1917	71.6	71.6	0.0138	0.0138	71.56	
Perylene	55:54	27035		1.4307	0.3967	0.3967	0.0174	0.0174		M
D 13C6-Indeno(1,2,3-cd)pyrene	58:02	5507186		1.0218	96.5	96.5	0.0125	0.0125	96.48	
Indeno[1,2,3-cd]pyrene	58:02	390072		1.1249	6.296	6.296	0.0152	0.0152		M
D 13C6-Dibenz(a,h)anthracene	58:06	5203384		1.0553	88.3	88.3	0.005813	0.005813	88.27	M
Dibenz(a,h)anthracene	58:06	2966		1.1314	0.0504	0.0504	0.006530	0.006530		M
D 13C12-Benzo(ghi)perylene	58:29	6197596		1.2749	87.0	87.0	0.004947	0.004947	87.02	M
Benzo[g,h,i]perylene	58:30	2275483		1.2838	28.6	28.6	0.0124	0.0124		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Lims ID: 140-36689-A-4-D
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Sample Type: Client
Inject. Date: 21-Jun-2024 23:38:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033215-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 26-Jun-2024 02:45:14 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1677

First Level Reviewer: F9EE

Date: 24-Jun-2024 15:07:58

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:15	0	0.666	4408496	1522492	78	195	19519		
Naphthalene											
128.0626	11:33	11:33	0	1.001	19495159	6812353	4223	10557	1613		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:31	0	0.800	2379347	1133713	46	115	24646		
2-Methylnaphthalene											
142.0783	13:53	13:52	1	1.001	12741526	5694115	667	1667	8537		
13C6-Acenaphthylene											
158.0828	16:45	16:20	0	0.966	3389718	1214953	47	117	25850		
Acenaphthylene											
152.0626	16:45	16:43	0	1.000	569293	201294	443	1107	454		
Acenaphthene-d10											
164.1404	17:19	17:19	0		1317843	456504	37	92	12338		
13C6-Acenaphthene											
160.0984	17:26	17:00	0	1.007	1968296	711956	41	102	17365		
Acenaphthene											
154.0783	17:27	17:27	0	1.001	963973	339051	374	935	907		
13C6-Fluorene											
172.0984	19:44	19:14	1	1.139	2081169	612788	107	267	5727		
Fluorene											
166.0783	19:44	19:44	0	1.000	2829754	816524	534	1335	1529		
13C6-Phenanthrene											
184.0984	25:07	25:06	0	0.709	3675819	878193	25	62	35128		
Phenanthrene											
178.0783	25:07	25:05	0	1.000	21188117	4796116	1056	2640	4542		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											a
188.1410	25:19	25:19	0	0.715	50067	12908	19	47	679		a
13C6-Anthracene											
184.0984	25:26	25:26	0	0.718	3532813	868403	25	62	34736		E
Anthracene											
178.0783	25:27	25:26	0	1.000	2004411	446532	1056	2640	423		
13C6-Fluoranthrene											
208.0984	33:52	33:52	0	0.956	6906130	1348094	154	385	8754		
Fluoranthene											
202.0783	33:52	33:51	1	1.000	4507302	884748	524	1310	1688		
Pyrene-d10											
212.1404	35:24	35:25	0		3312585	622457	40	100	15561		
13C3-Pyrene											
205.0883	35:34	35:33	1	1.004	6919733	1325423	120	300	11045		
Pyrene											
202.0783	35:34	35:30	1	1.000	5085772	992765	524	1310	1895		
13C6-Benzo(c)fluorene											
222.1134	39:15	39:31	0	0.707	2429178	461092	25	62	18444		
13C6-Benzo(a)anthracene											
234.1140	46:05	46:04	0	1.301	6728024	1175694	210	525	5599		
Benzo[a]anthracene											
228.0939	46:06	46:04	0	1.000	77218	13832	119	297	116		
13C6-Chrysene											
234.1140	46:22	46:21	1	1.309	6990183	1141798	210	525	5437		
Chrysene											
228.0939	46:22	46:21	0	1.000	334975	43855	119	297	369		
13C6-Benzo(b)fluoranthene											
258.1140	54:39	55:00	1	0.985	7318068	2014685	52	130	38744		
Benzo[b]fluoranthene											
252.0939	54:39	54:38	1	1.000	310936	66086	163	407	405		
13C12-Benzo(j)fluoranthene											
264.1336	54:41	55:02	1	0.985	4448754	1171800	121	302	9684		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	55:07	1	0.987	8391892	2066712	52	130	39744		
Benzo[k]fluoranthene											
252.0939	54:46	54:43	1	1.000	86074	19605	163	407	120		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	1		2793065	872140	115	287	7584		
Benzo[e]pyrene											
252.0939	55:35	55:55	1	1.000	1047354	338468	163	407	2076		
13C4-Benzo(e)pyrene											
256.1073	55:35	55:56	1	1.001	6833616	2283047	172	430	13274		
13C4-Benzo(a)pyrene											
256.1073	55:44	56:05	1	1.004	7000401	2031081	172	430	11809		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:44	55:42	1	1.000	156595	42348	163	407	260		
Perylene-d12											
264.1692	55:54	56:15	1	1.007	4763891	1638968	115	287	14252		
Perylene											
252.0939	55:54	55:54	-3	1.000	27035	4931	163	407	30		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:02	58:24	1	1.046	5507186	1699510	89	222	19096		
Indeno[1,2,3-cd]pyrene											
276.0939	58:02	58:02	1	1.000	390072	117967	116	290	1017		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:06	1	1.047	5203384	1651300	43	107	38402		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:06	1	1.000	2966	1294	49	122	26		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:29	0	1.054	6197596	1825509	44	110	41489		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:30	1	1.000	2275483	695695	116	290	5997		M

QC Flag Legend

Processing Flags

Review Flags

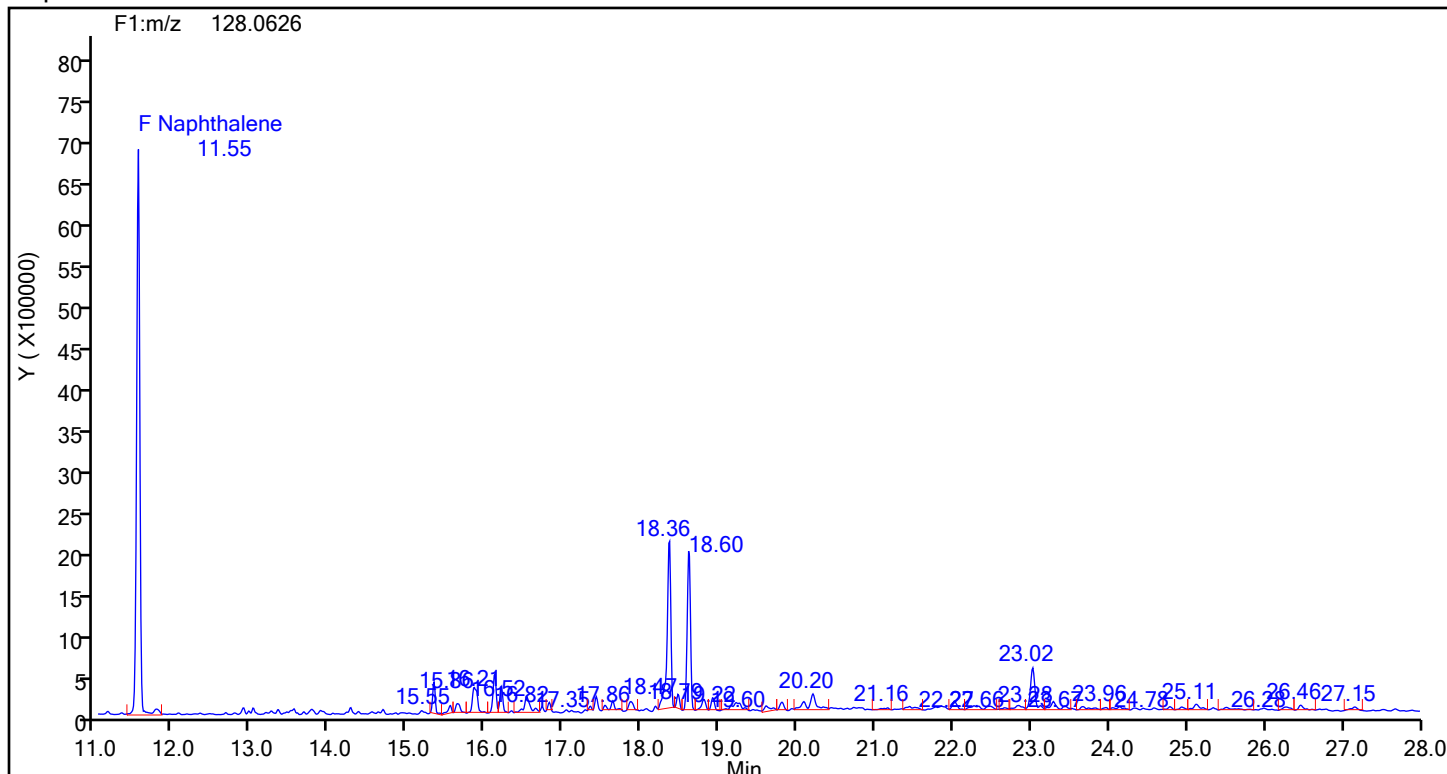
M - Manually Integrated

a - User Assigned ID

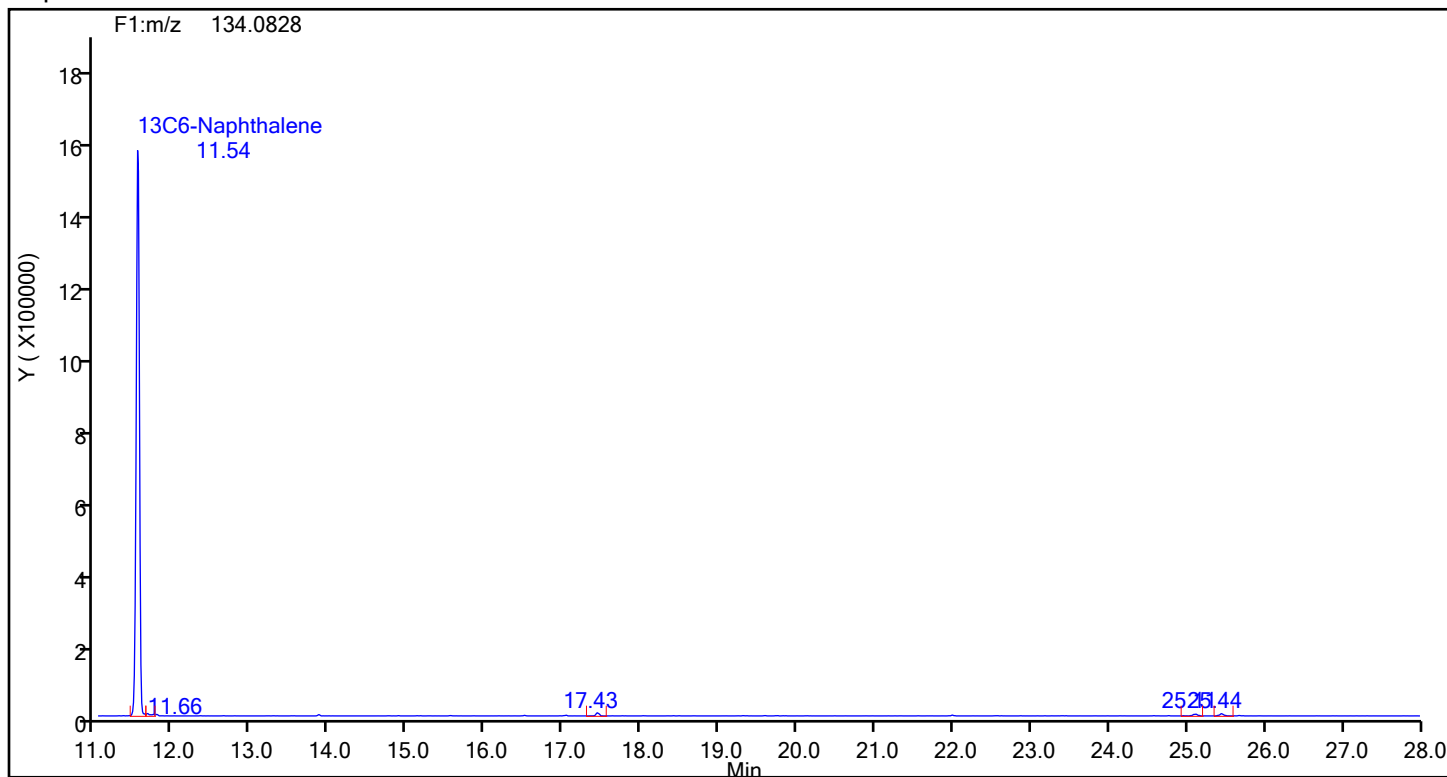
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



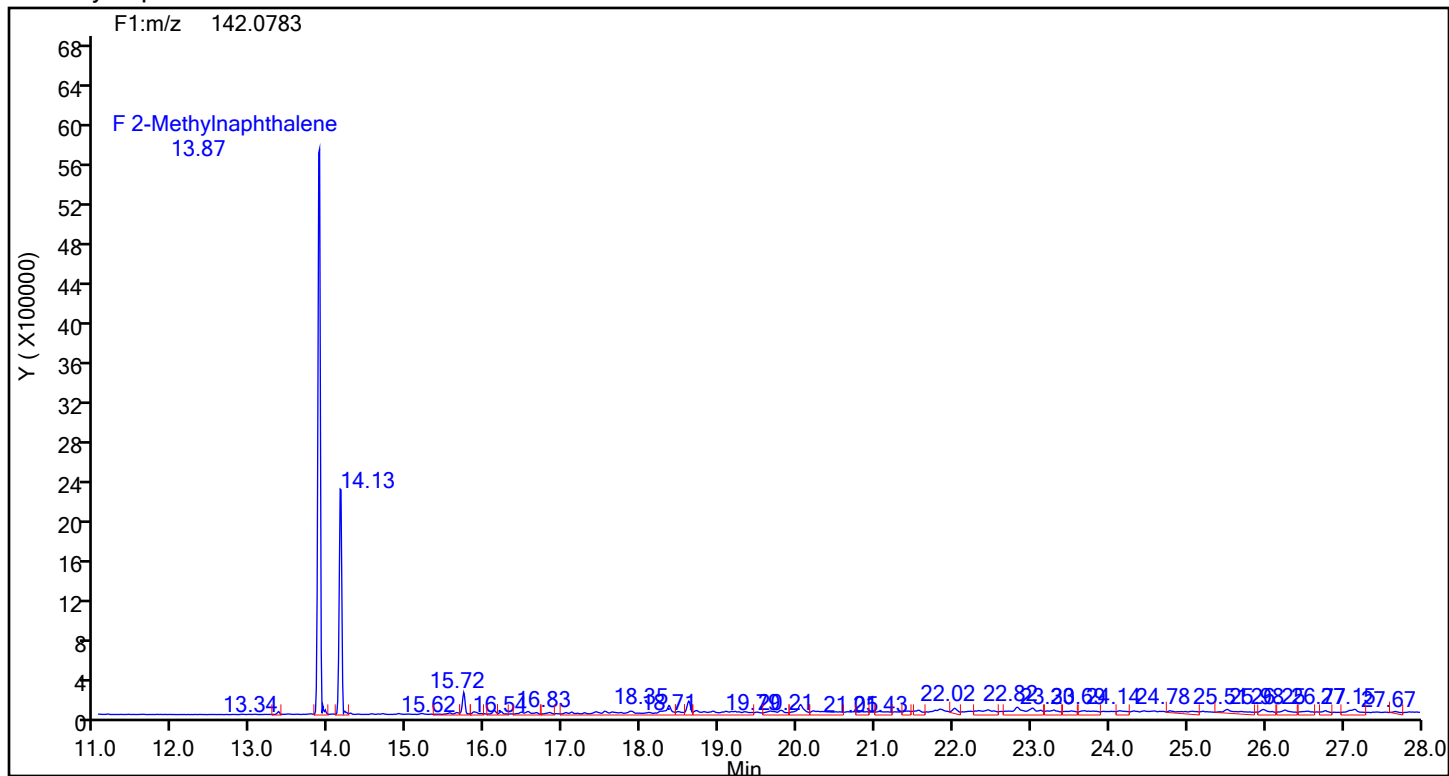
Naphthalene Standards



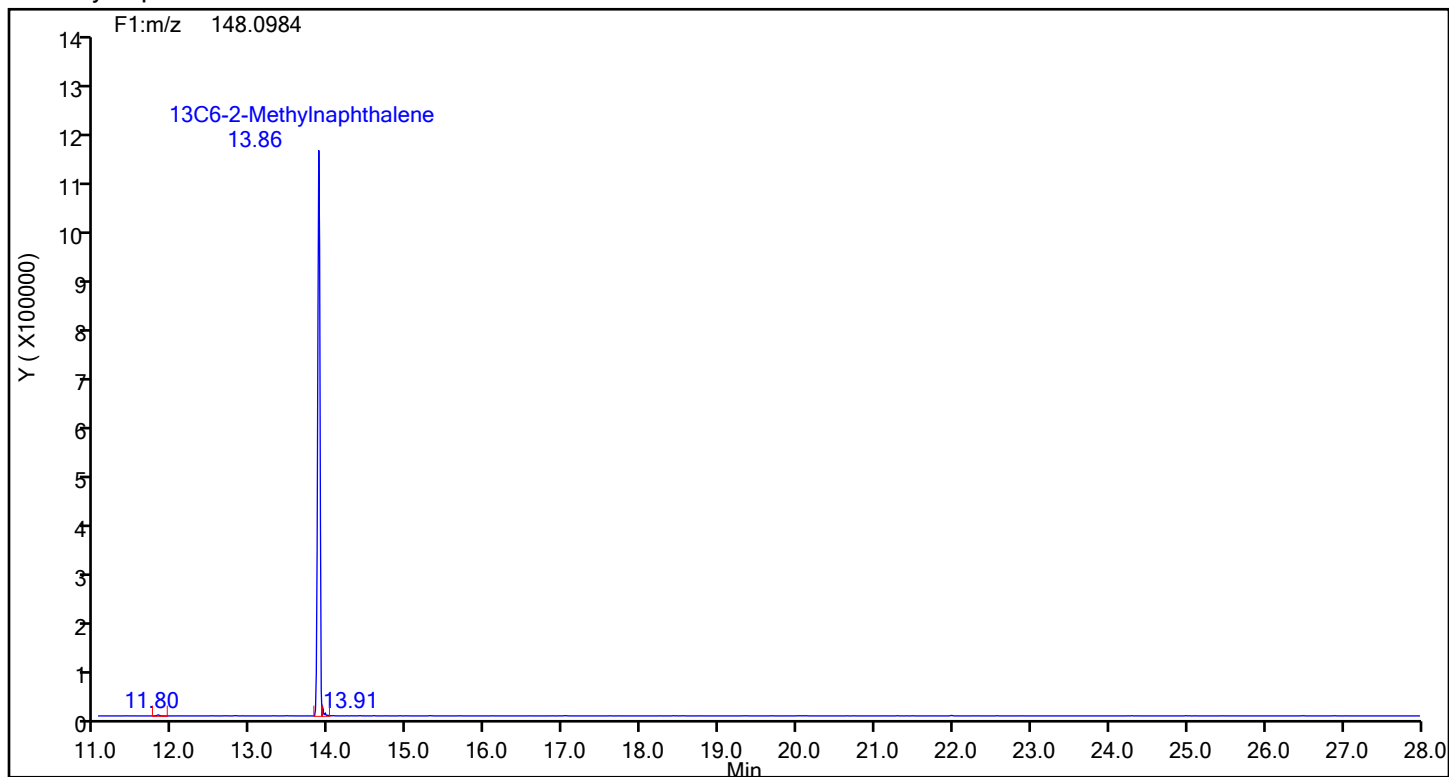
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



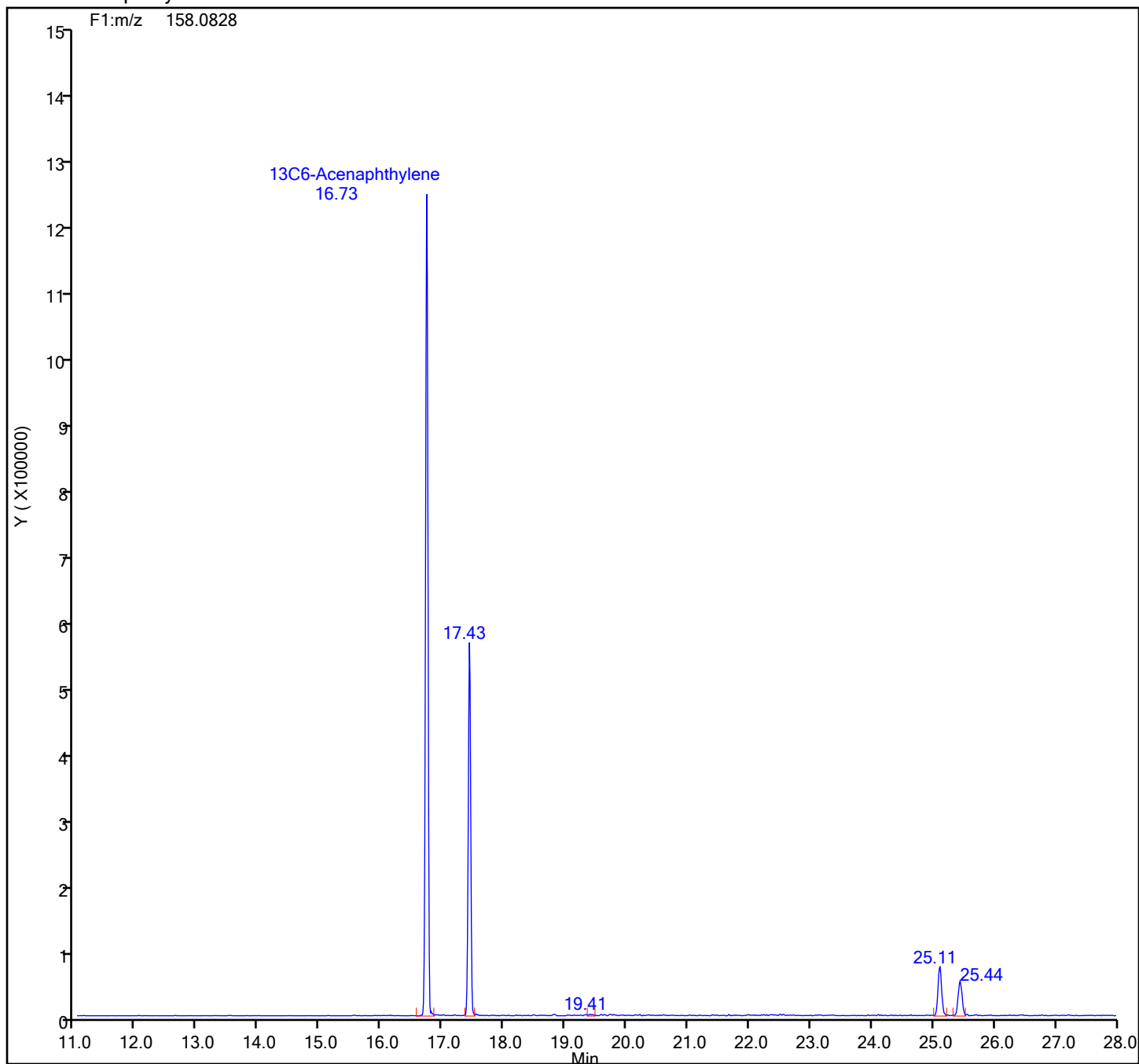
2-Methylnaphthalene Standards



Eurofins Knoxville

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Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

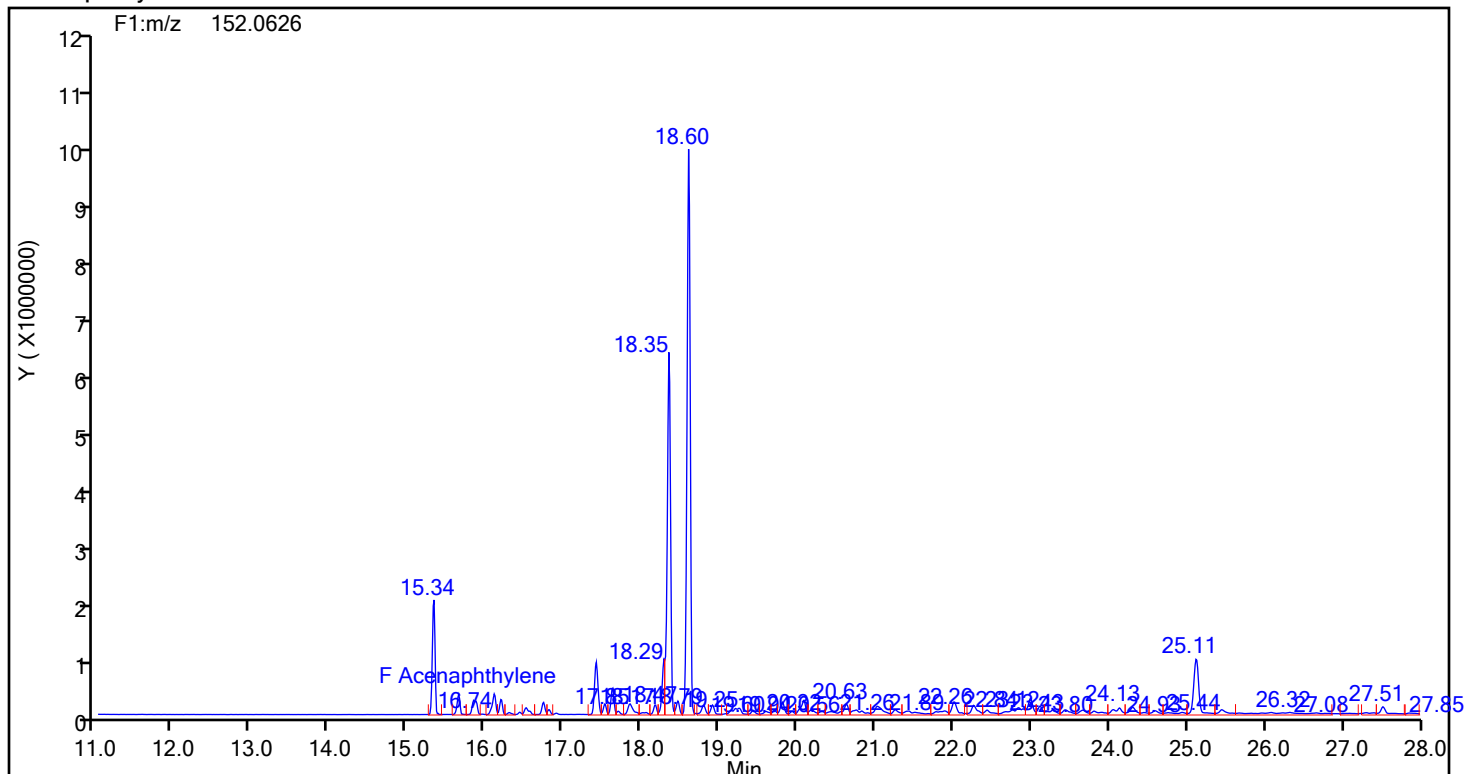
13C6-Acenaphthylene Standards



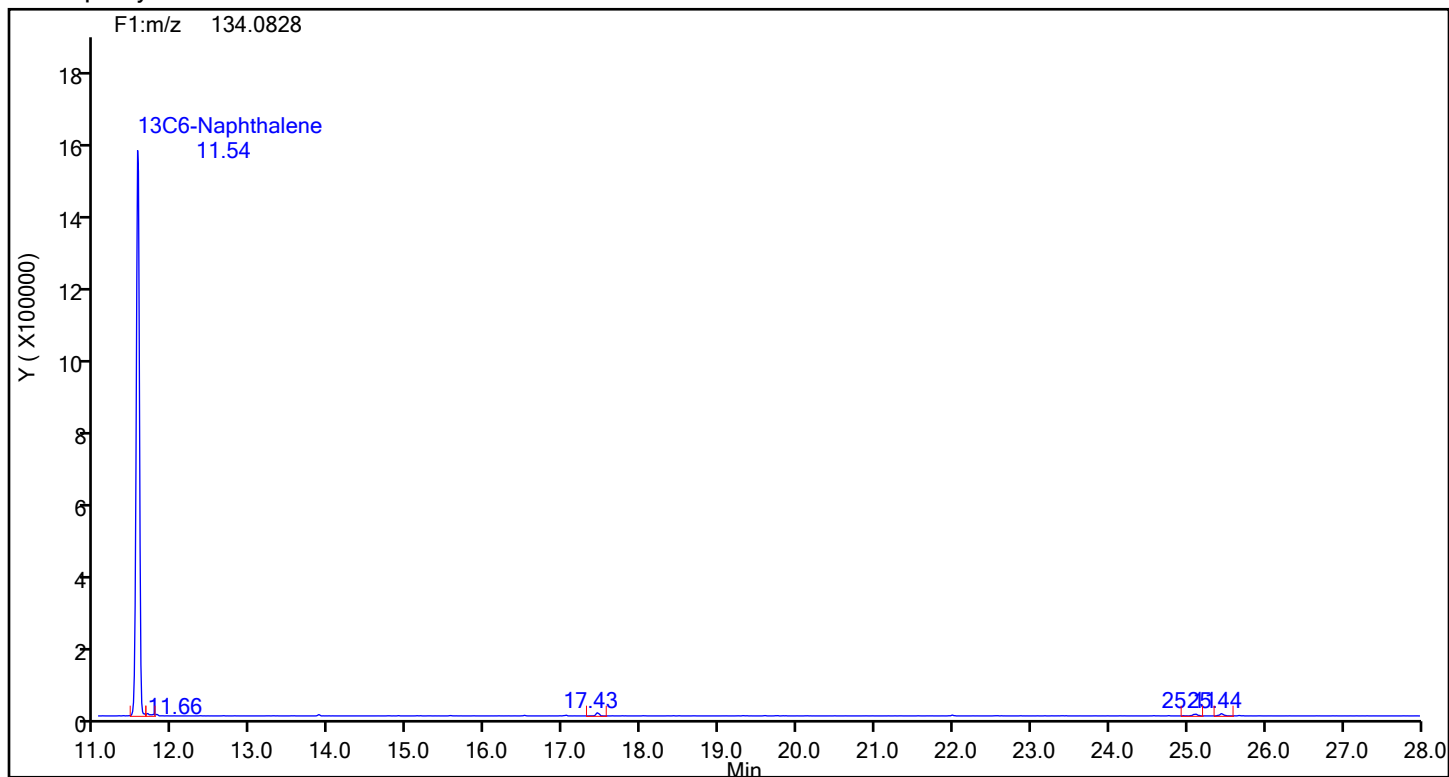
Eurofins Knoxville

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Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



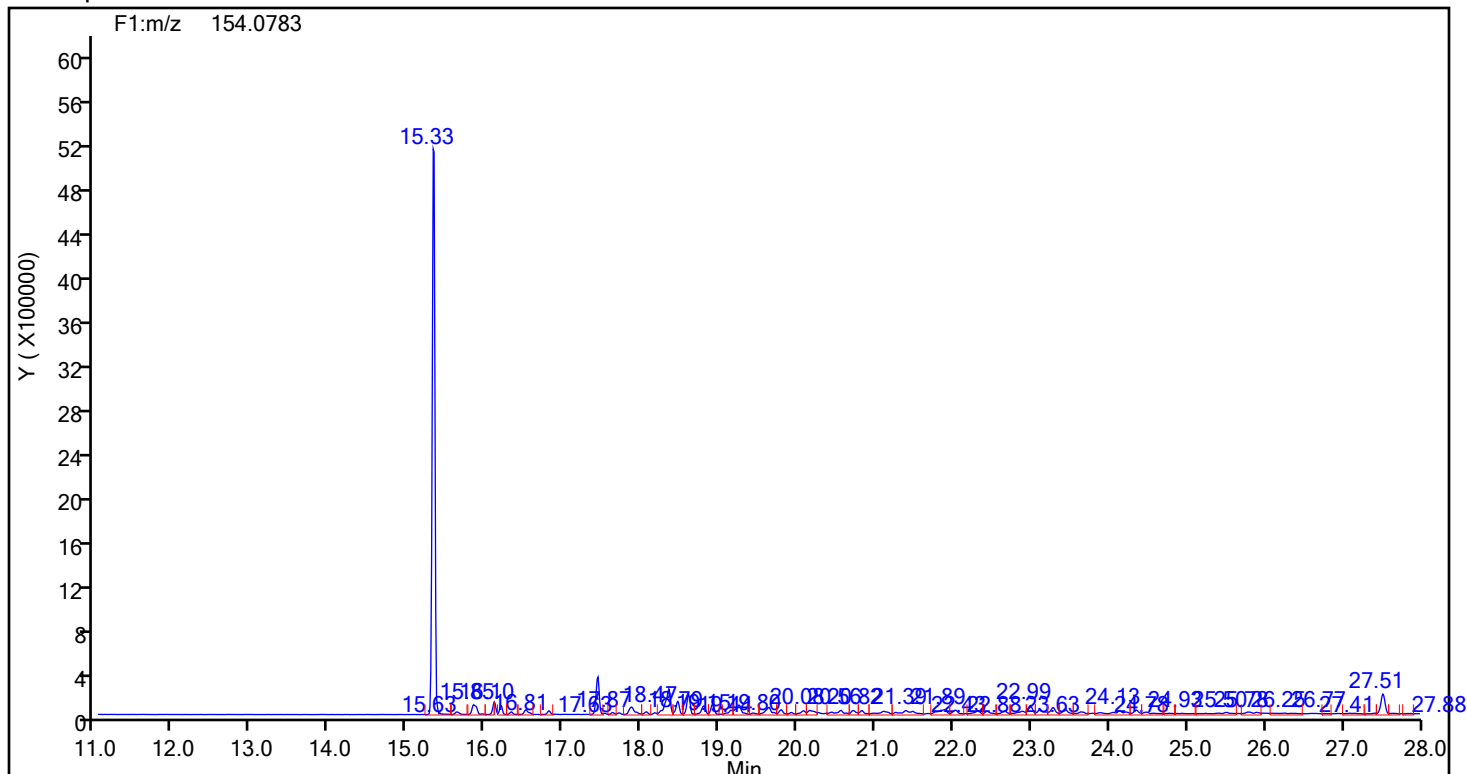
Acenaphthylene Standards



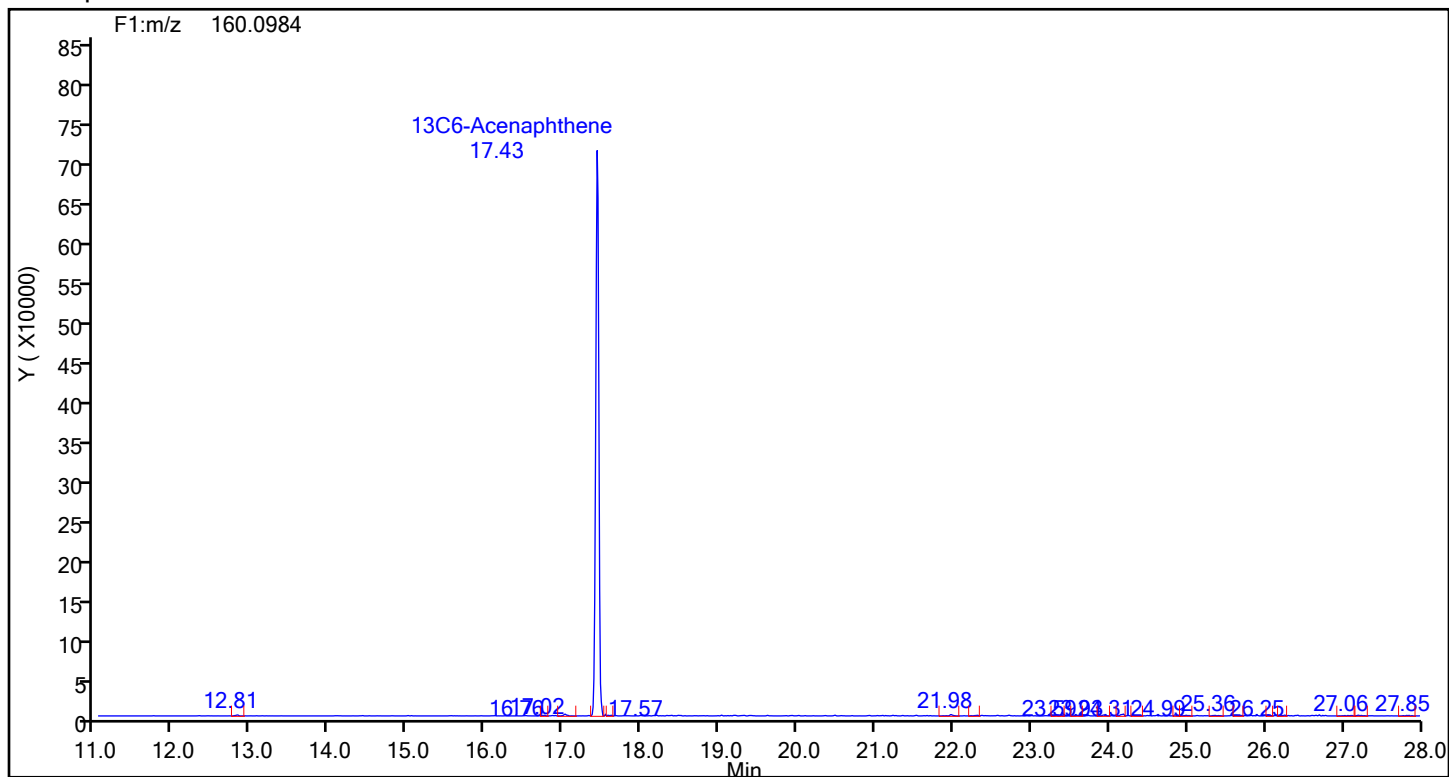
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



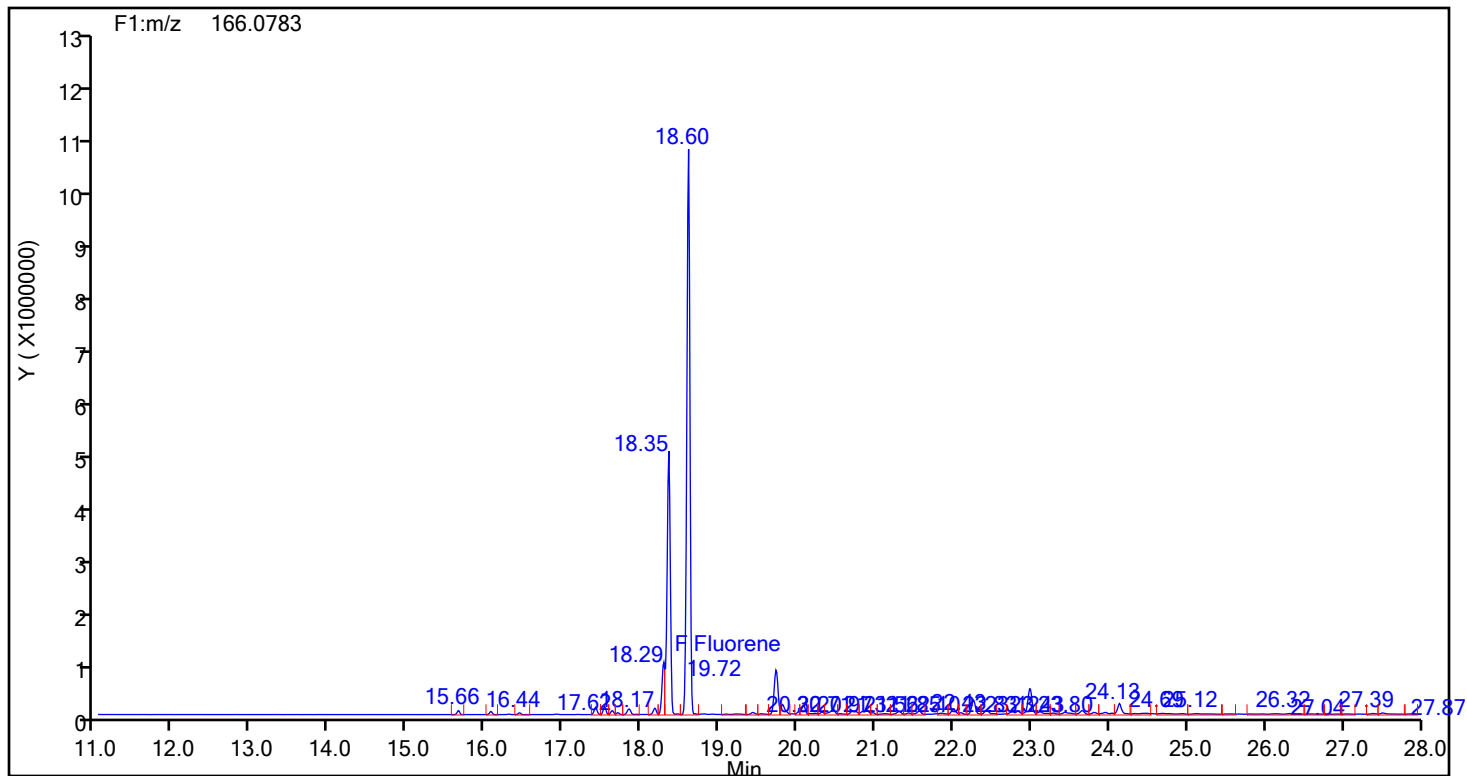
Acenaphthene Standards



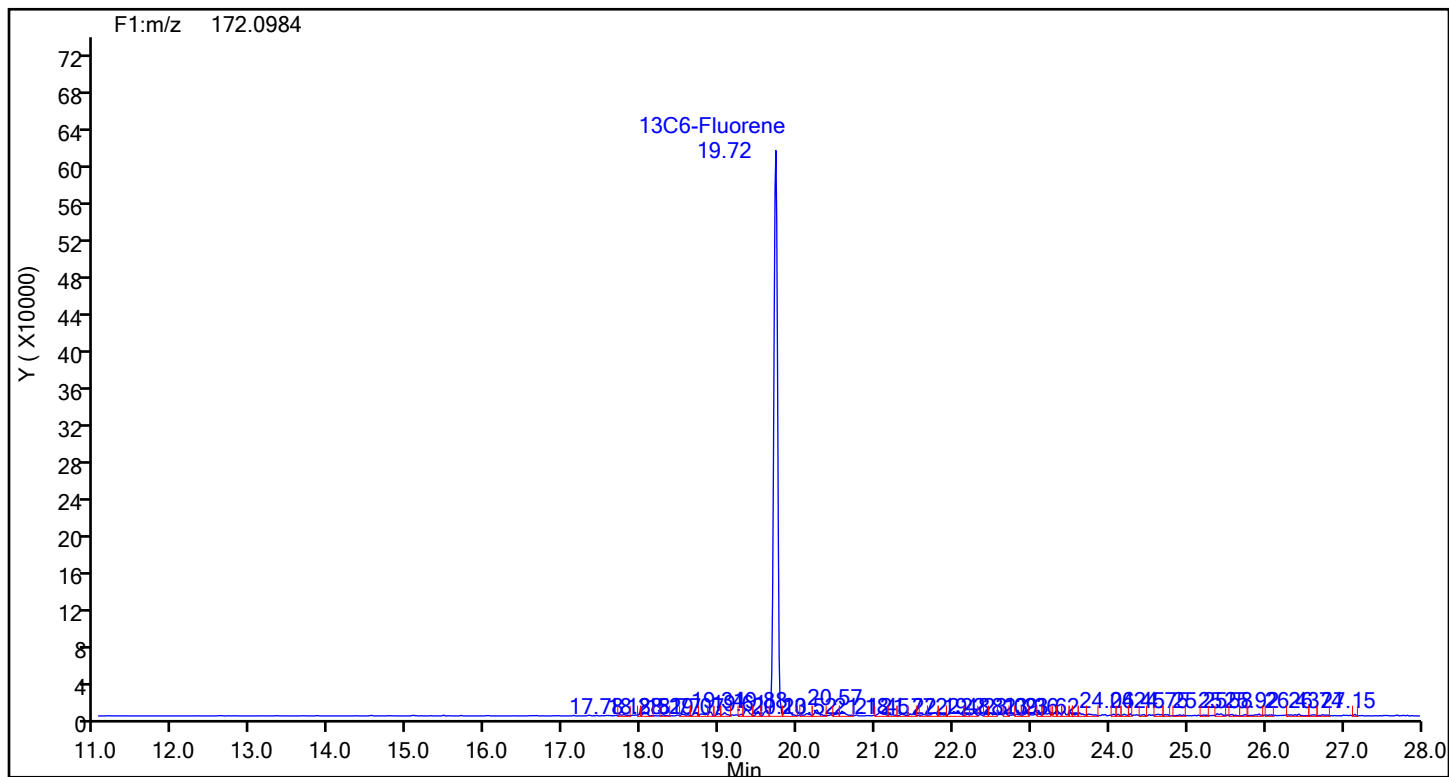
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

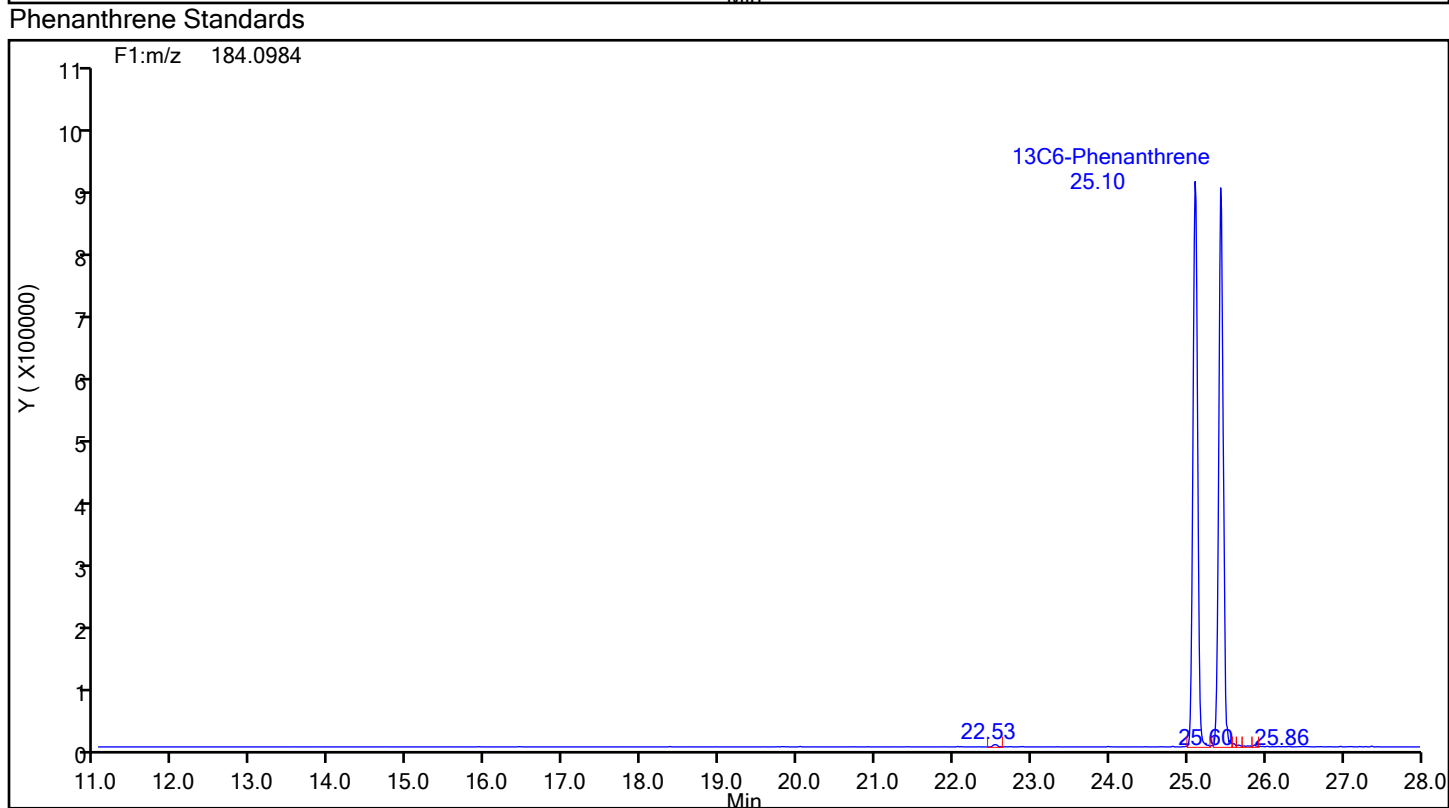
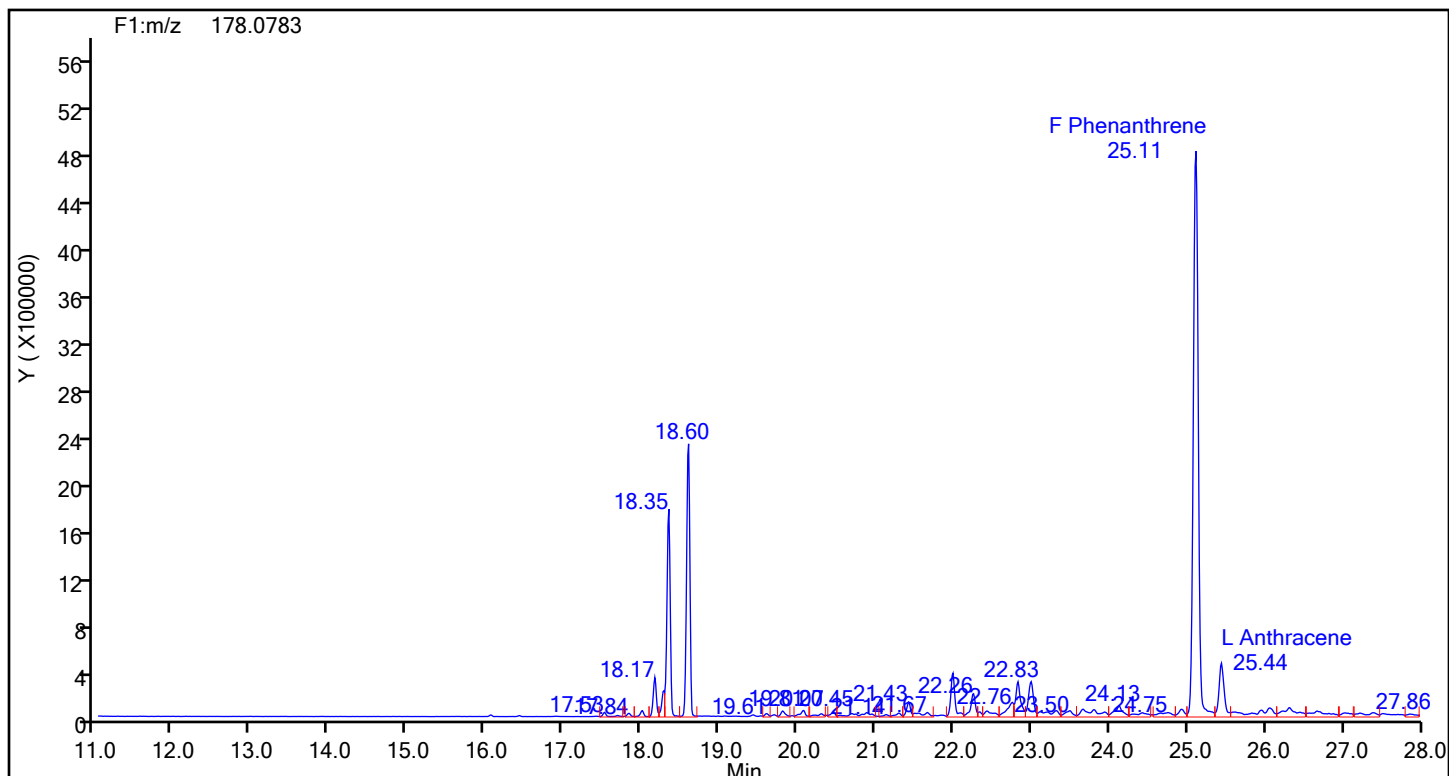


Fluorene Standards



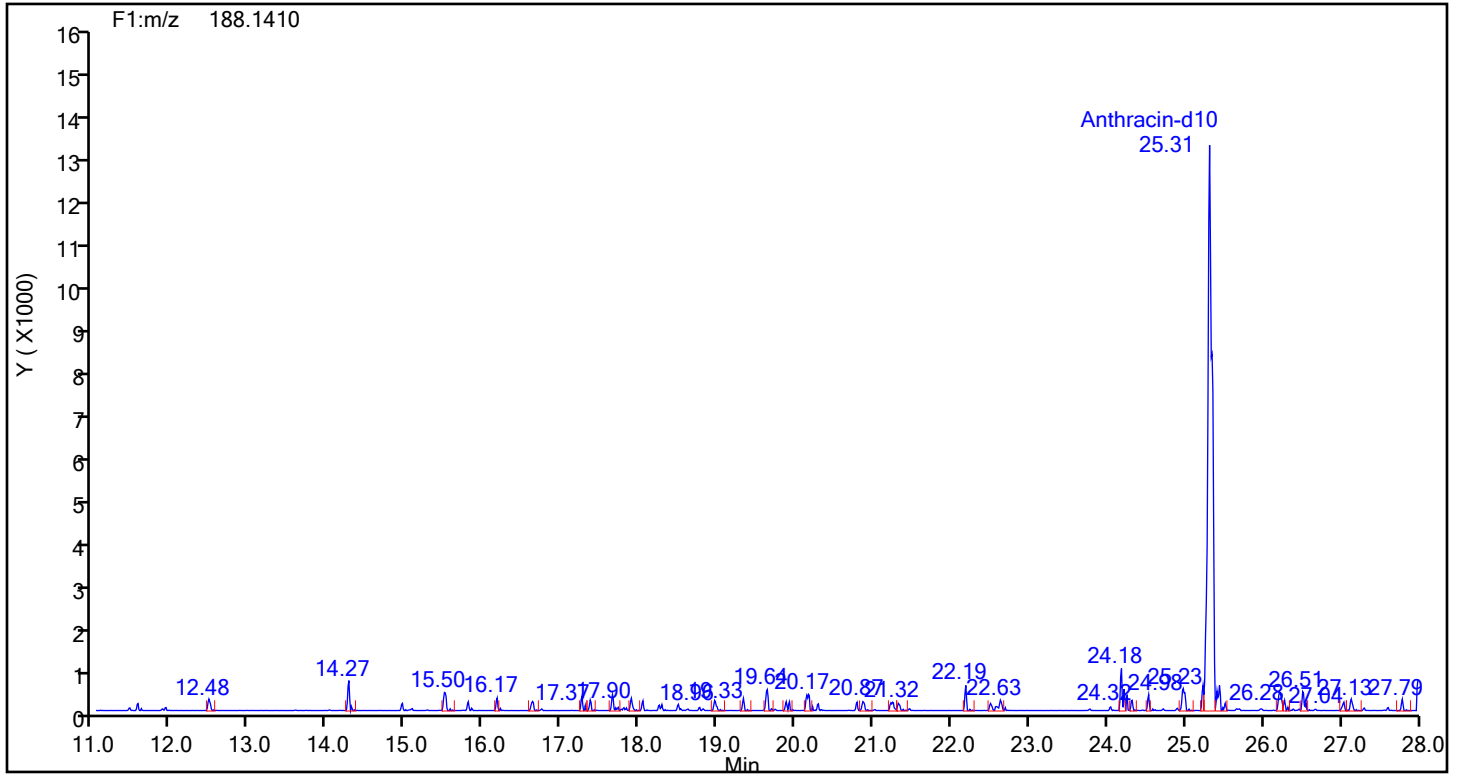
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene

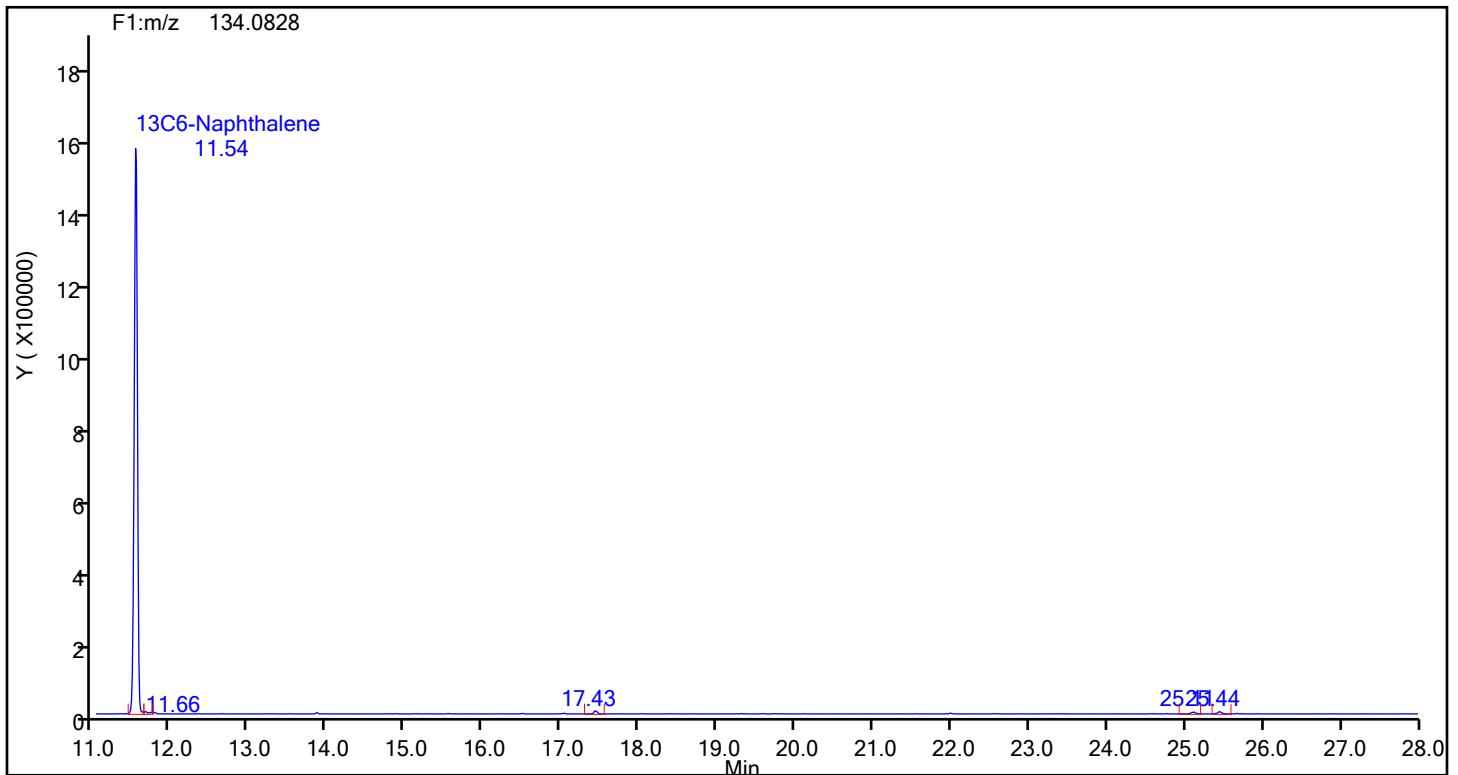


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



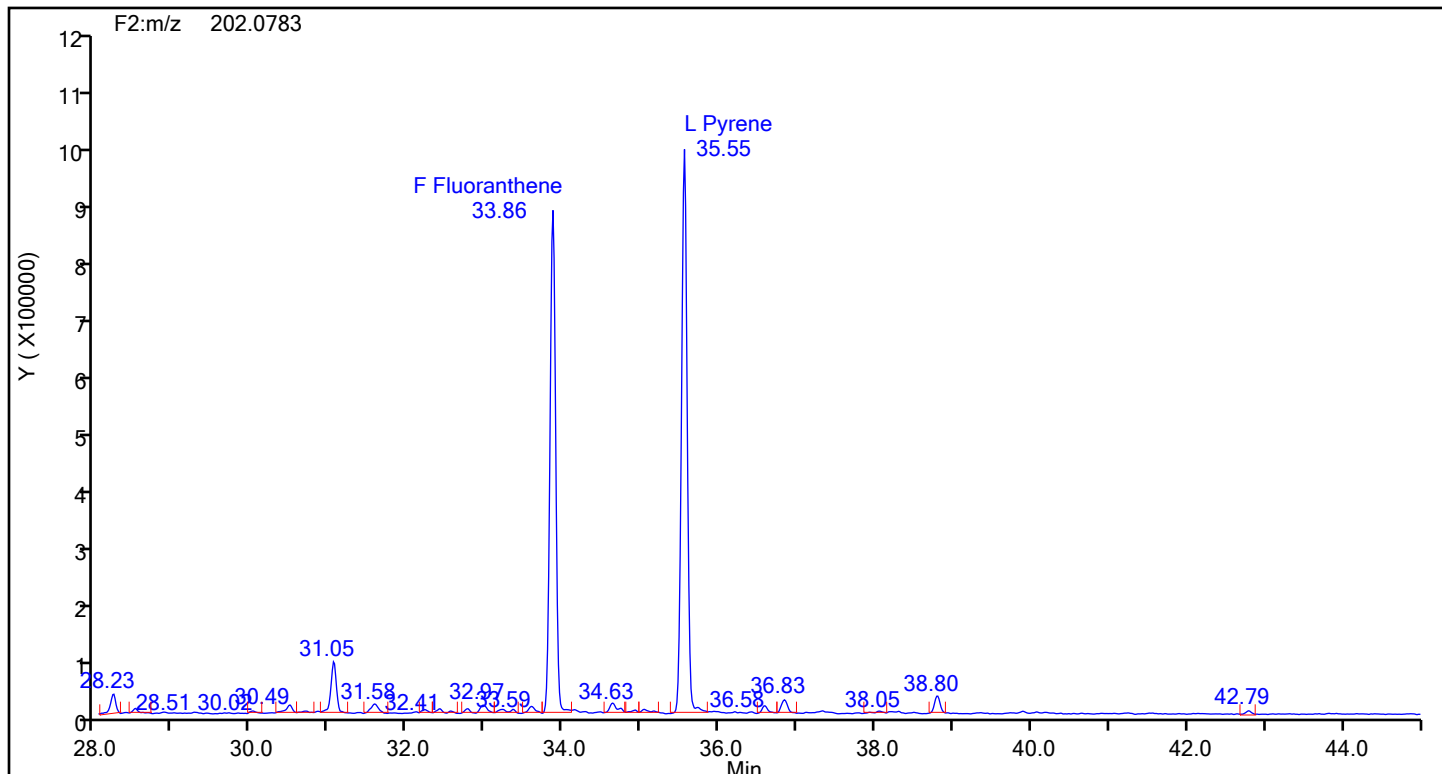
Anthracin-d10 Standards



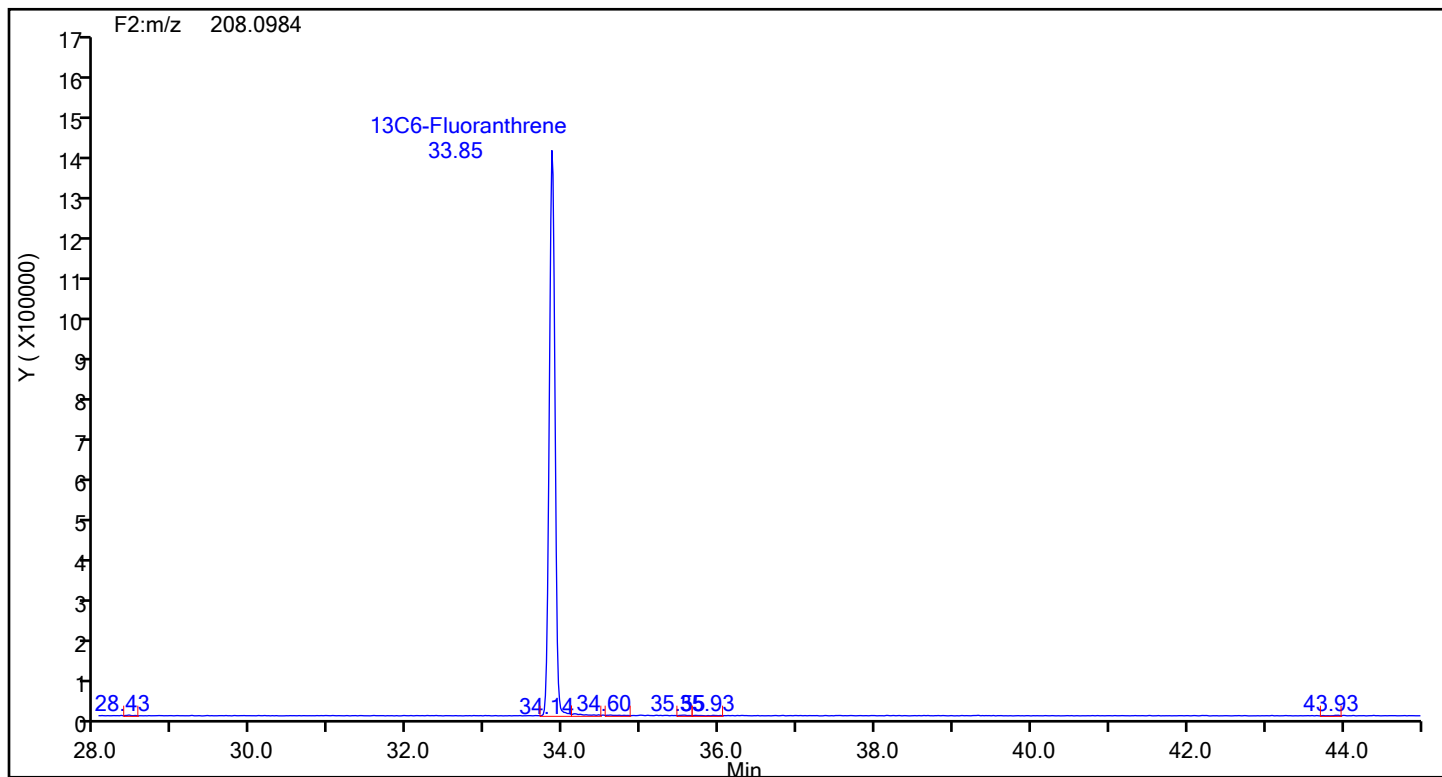
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluoranthene



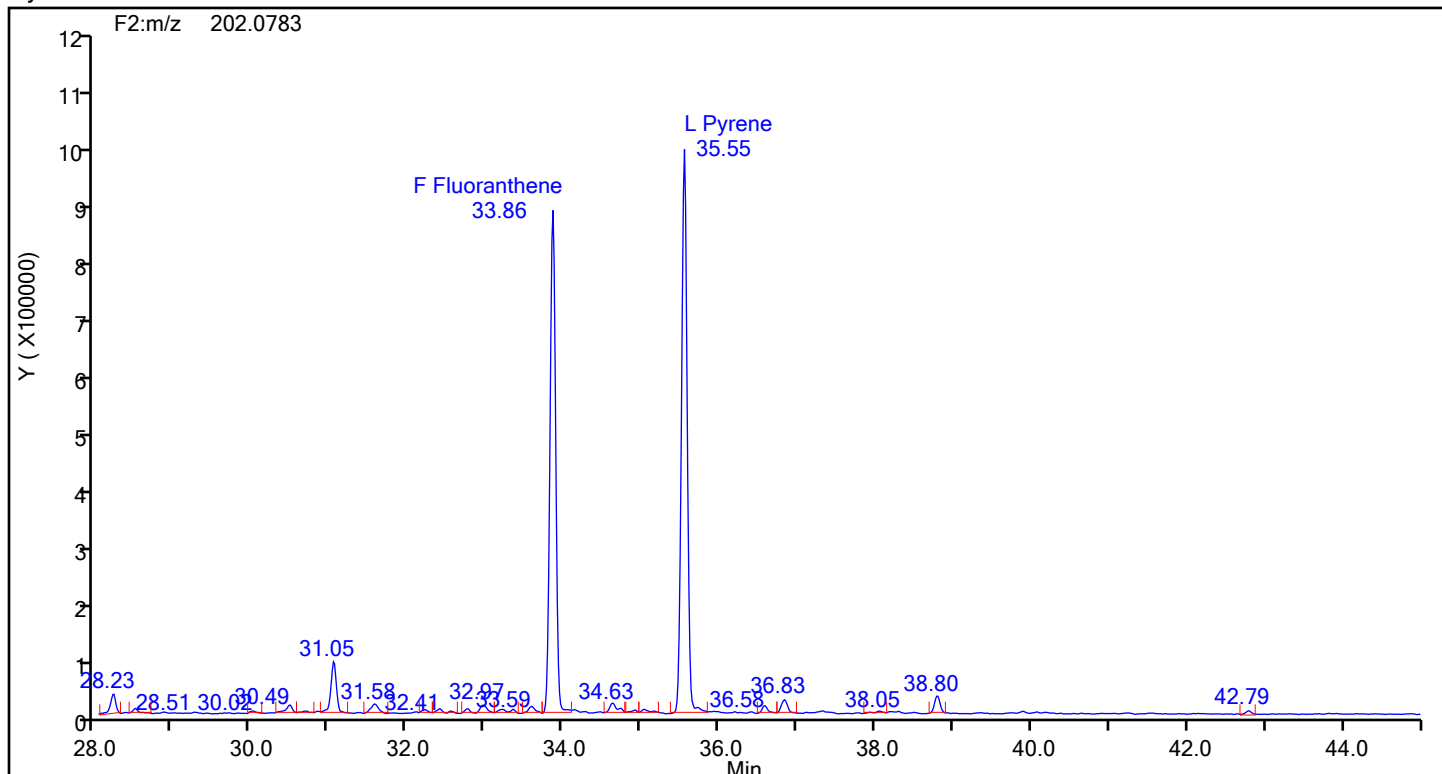
Fluoranthene Standards



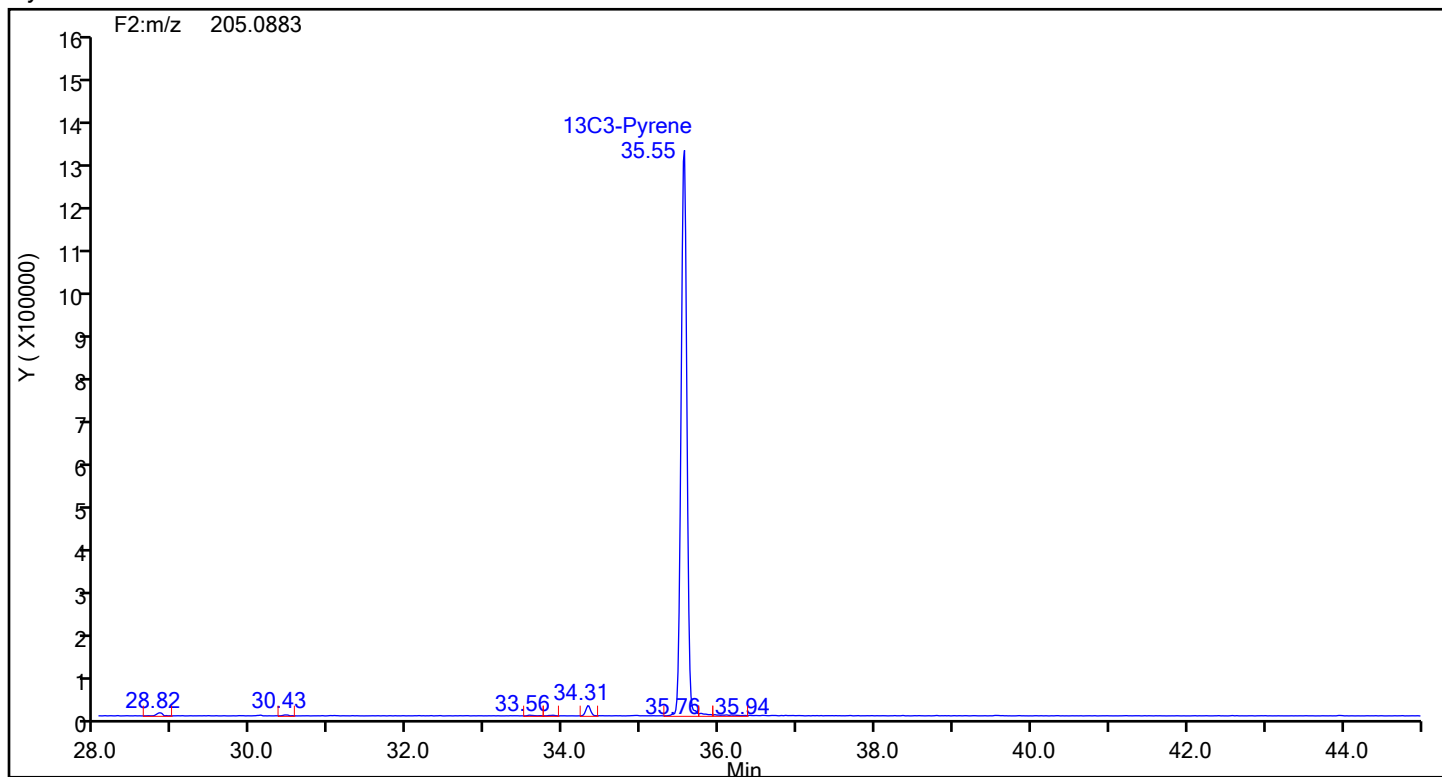
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



Pyrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d

Injection Date: 21-Jun-2024 23:38:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 4 COMBINED

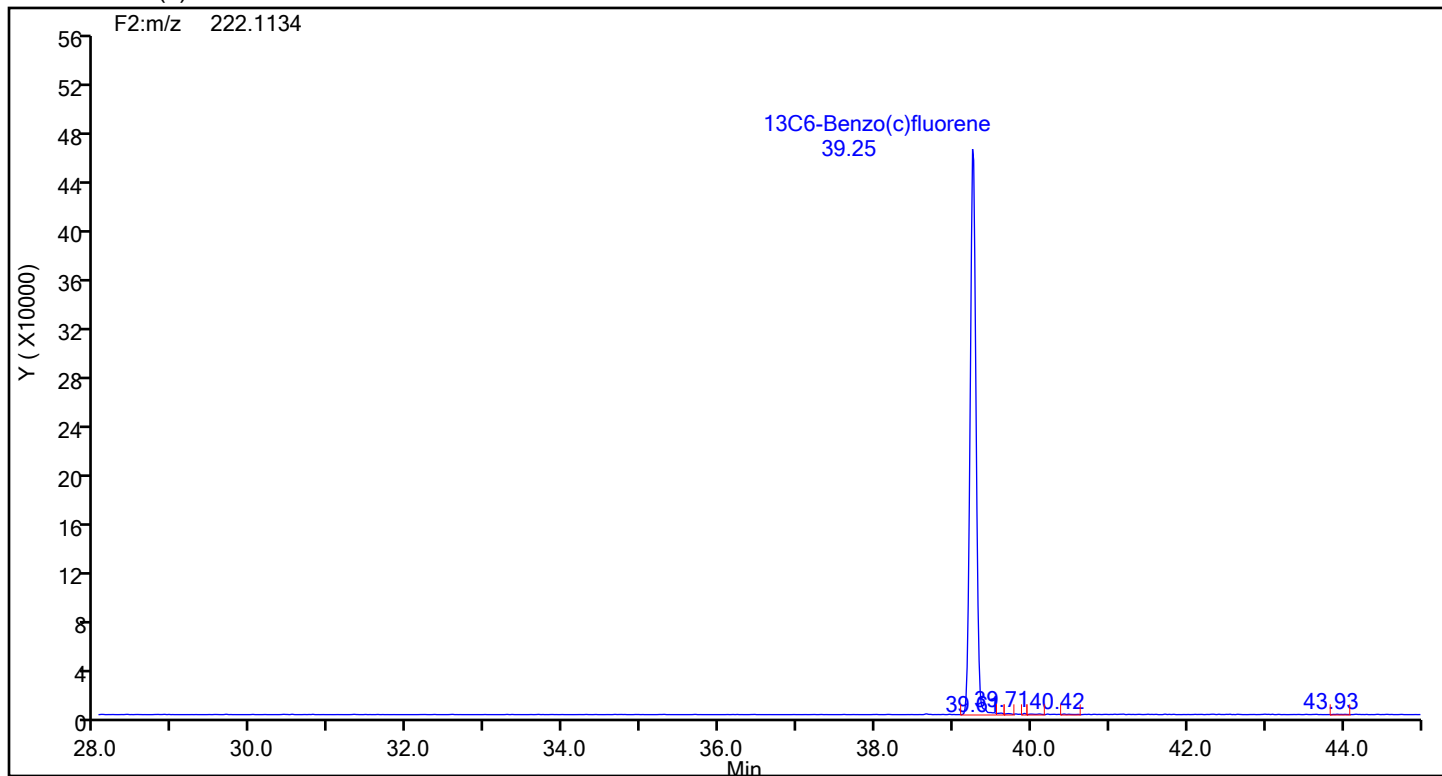
Worklist#: 87947

Sample Line#: 10

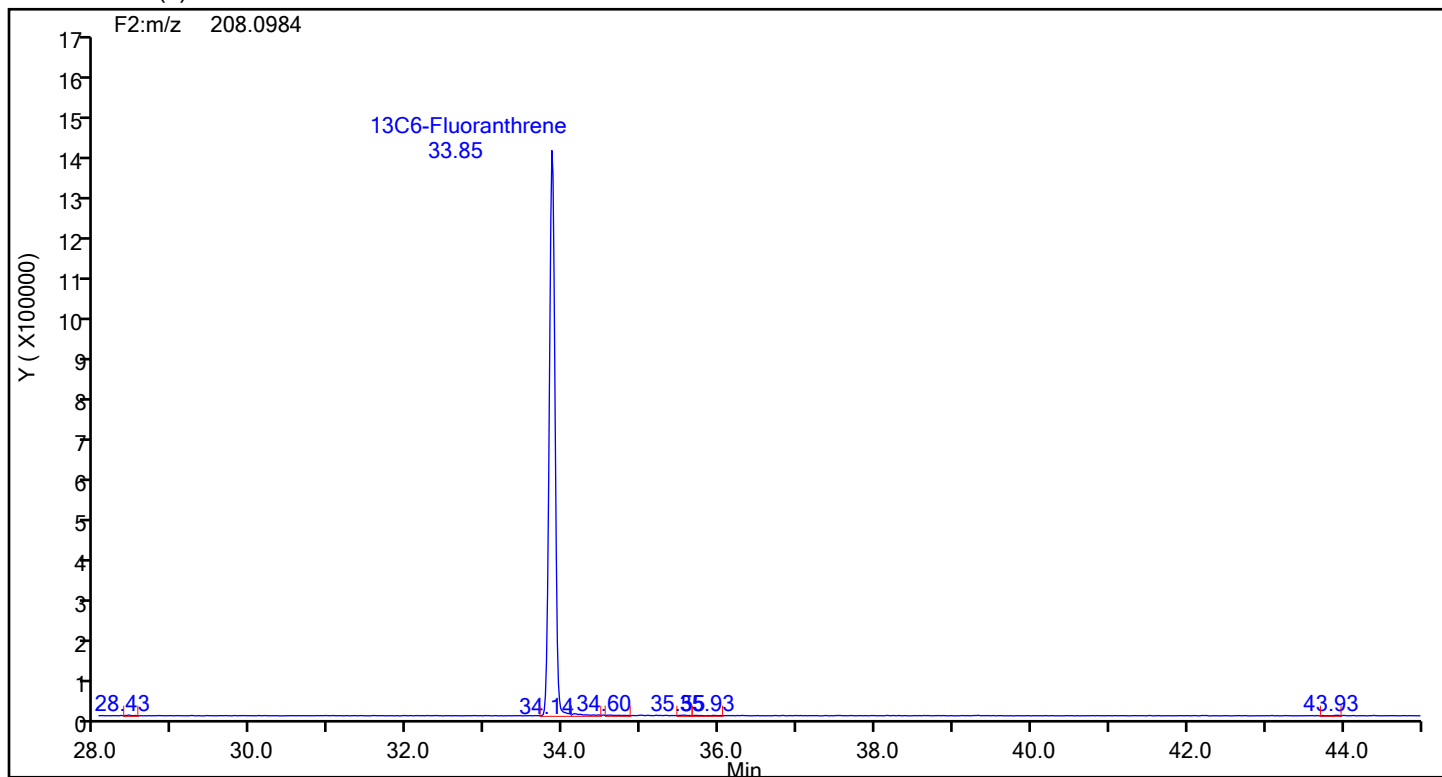
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



13C6-Benzo(c)fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d

Injection Date: 21-Jun-2024 23:38:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 4 COMBINED

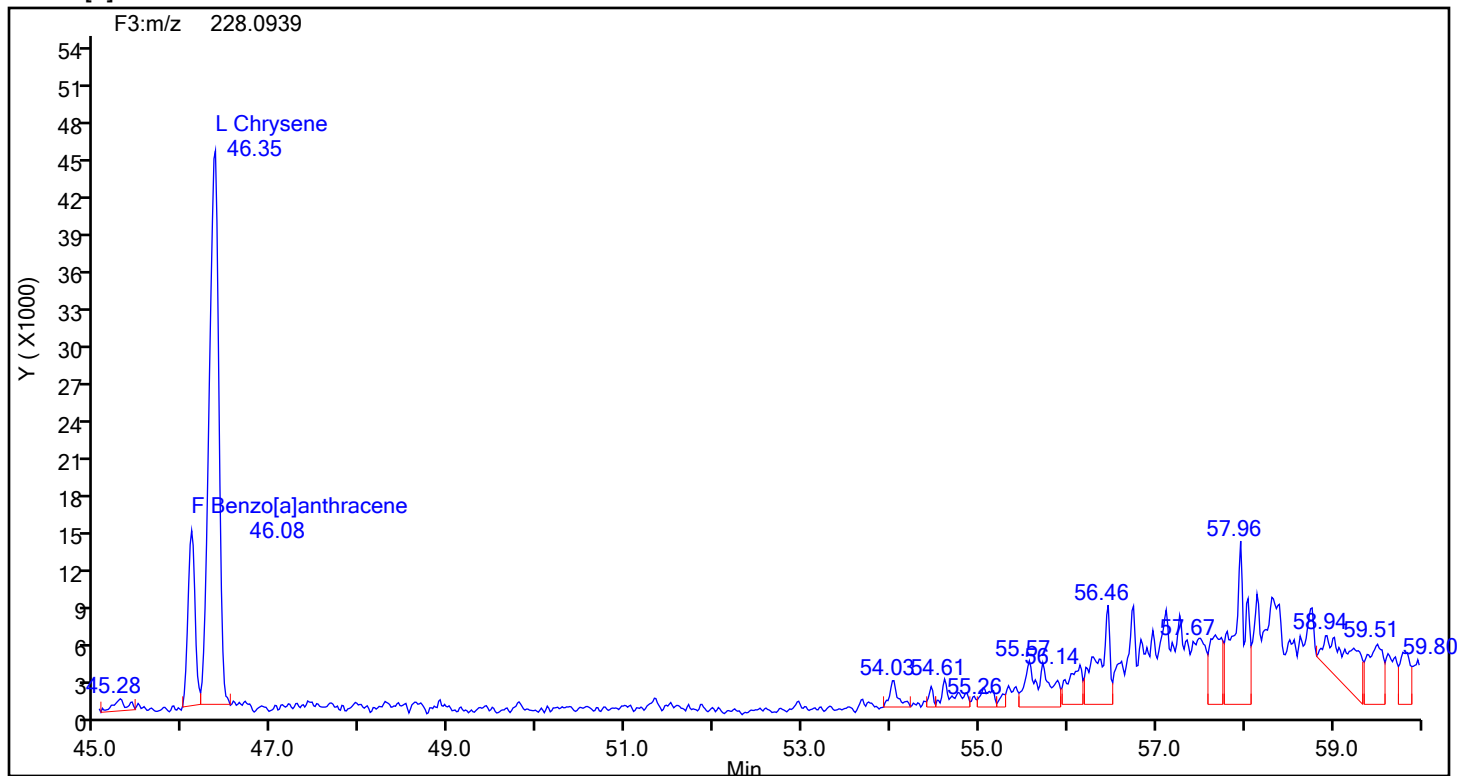
Worklist#: 87947

Sample Line#: 10

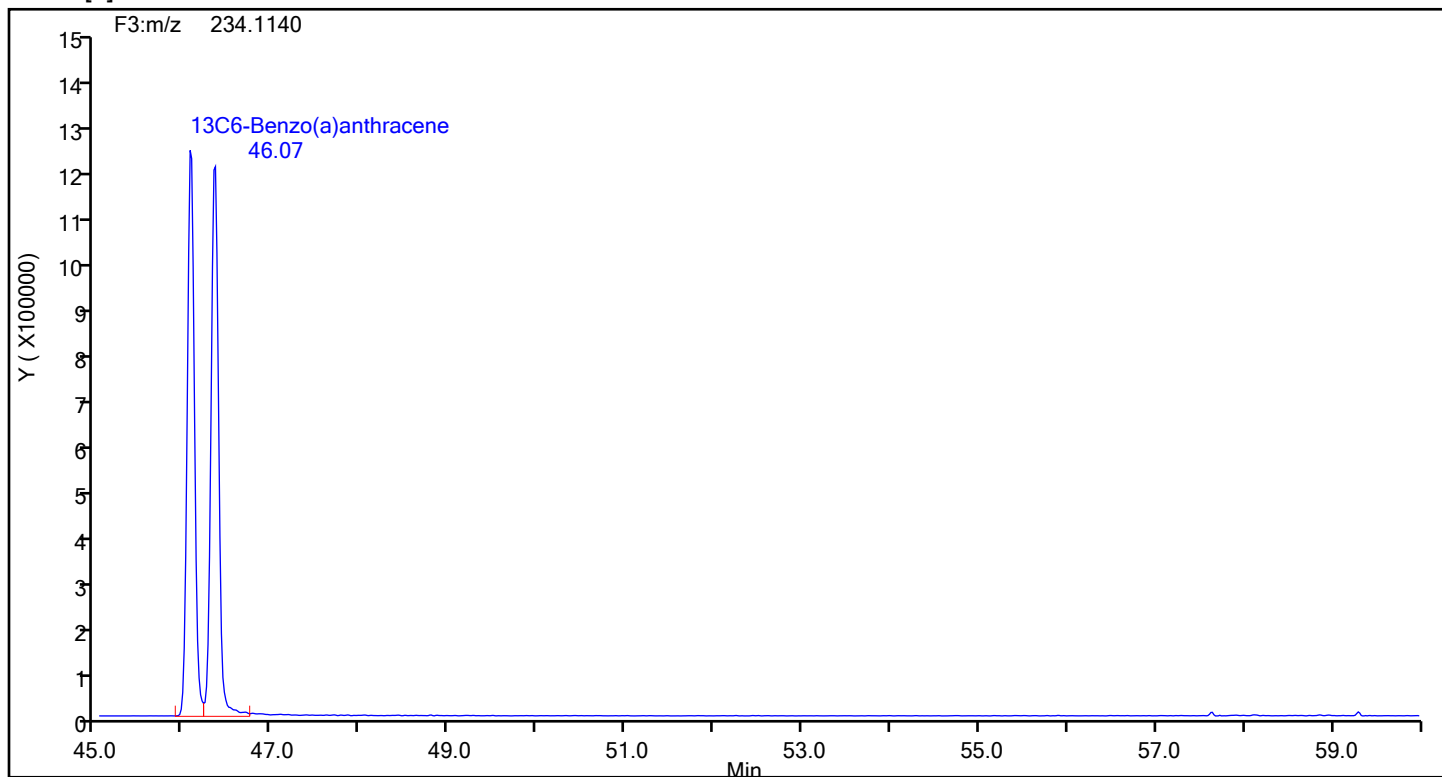
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[a]anthracene



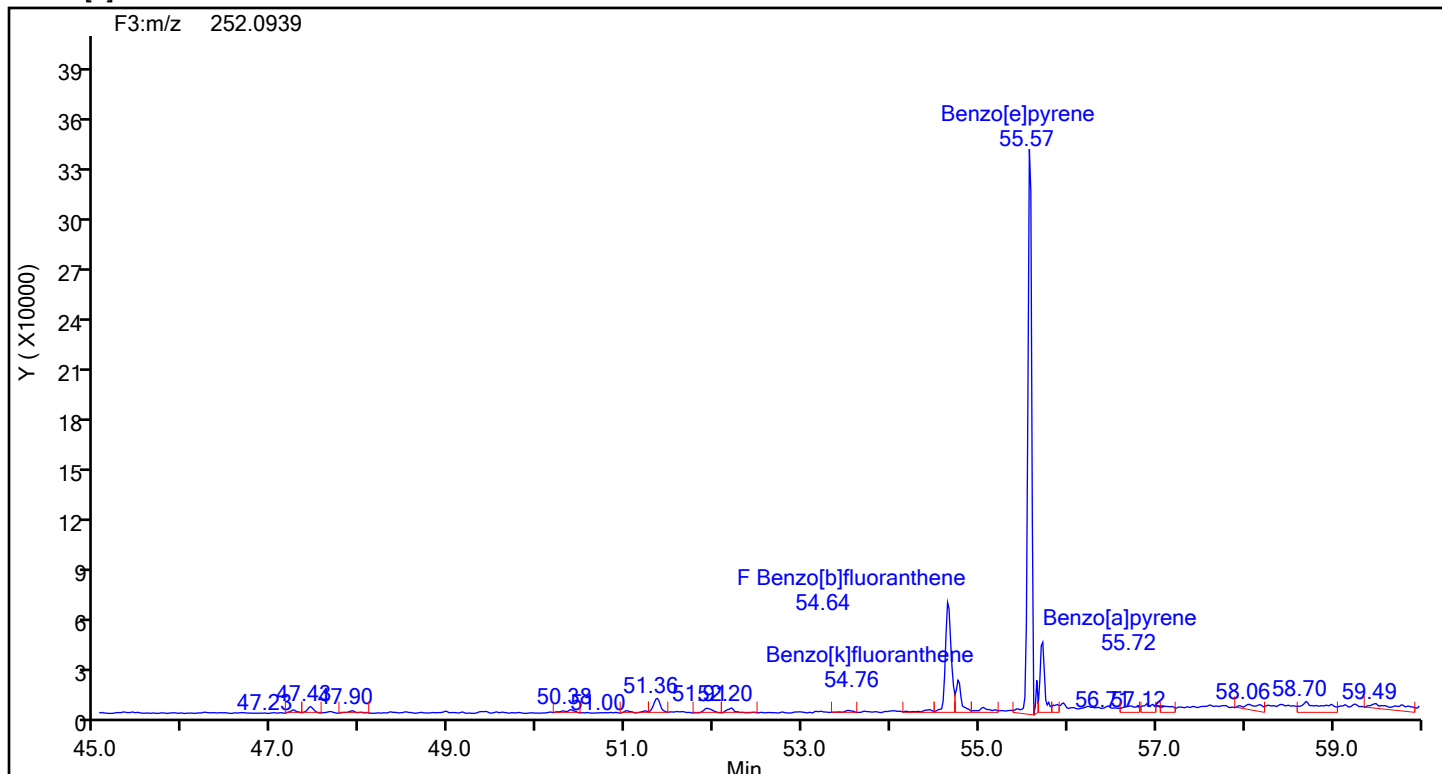
Benzo[a]anthracene Standards



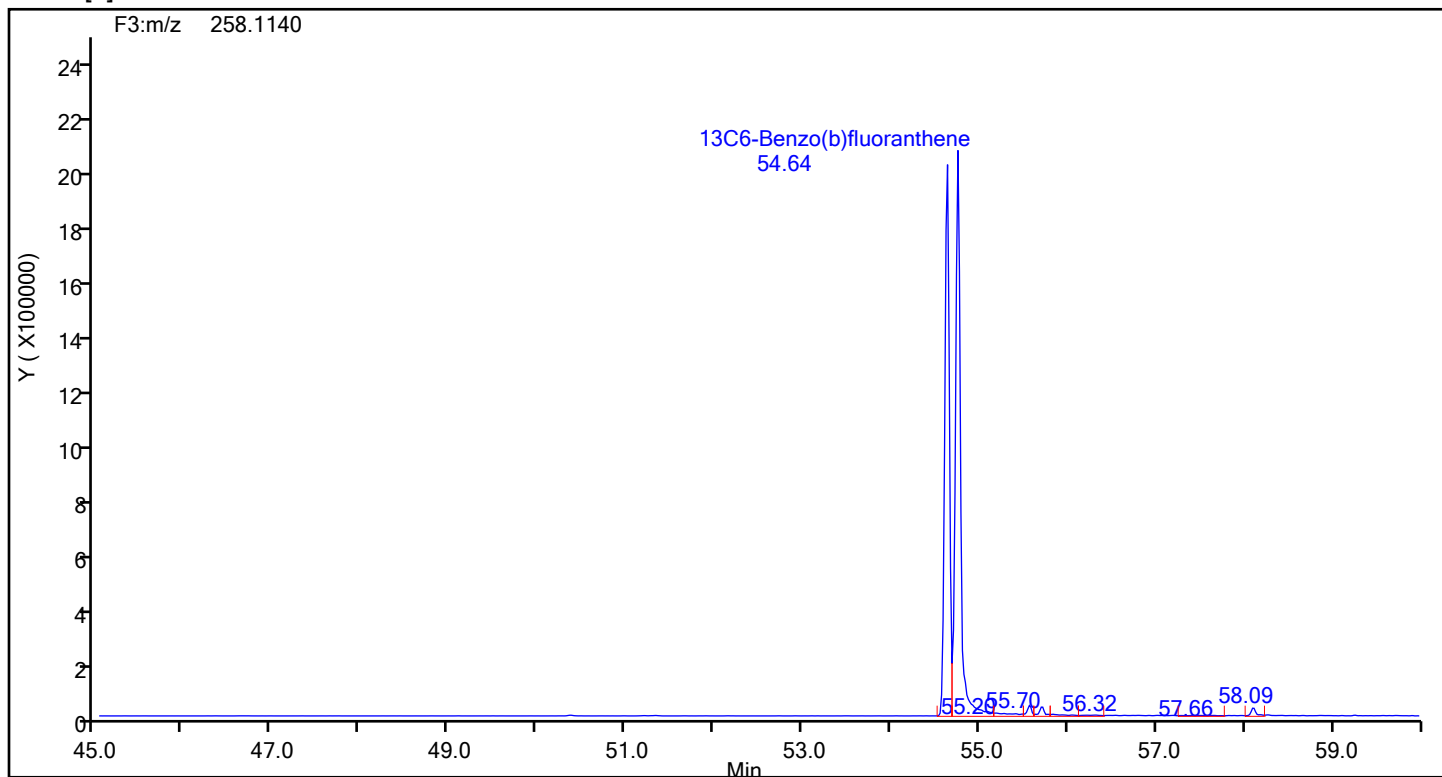
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



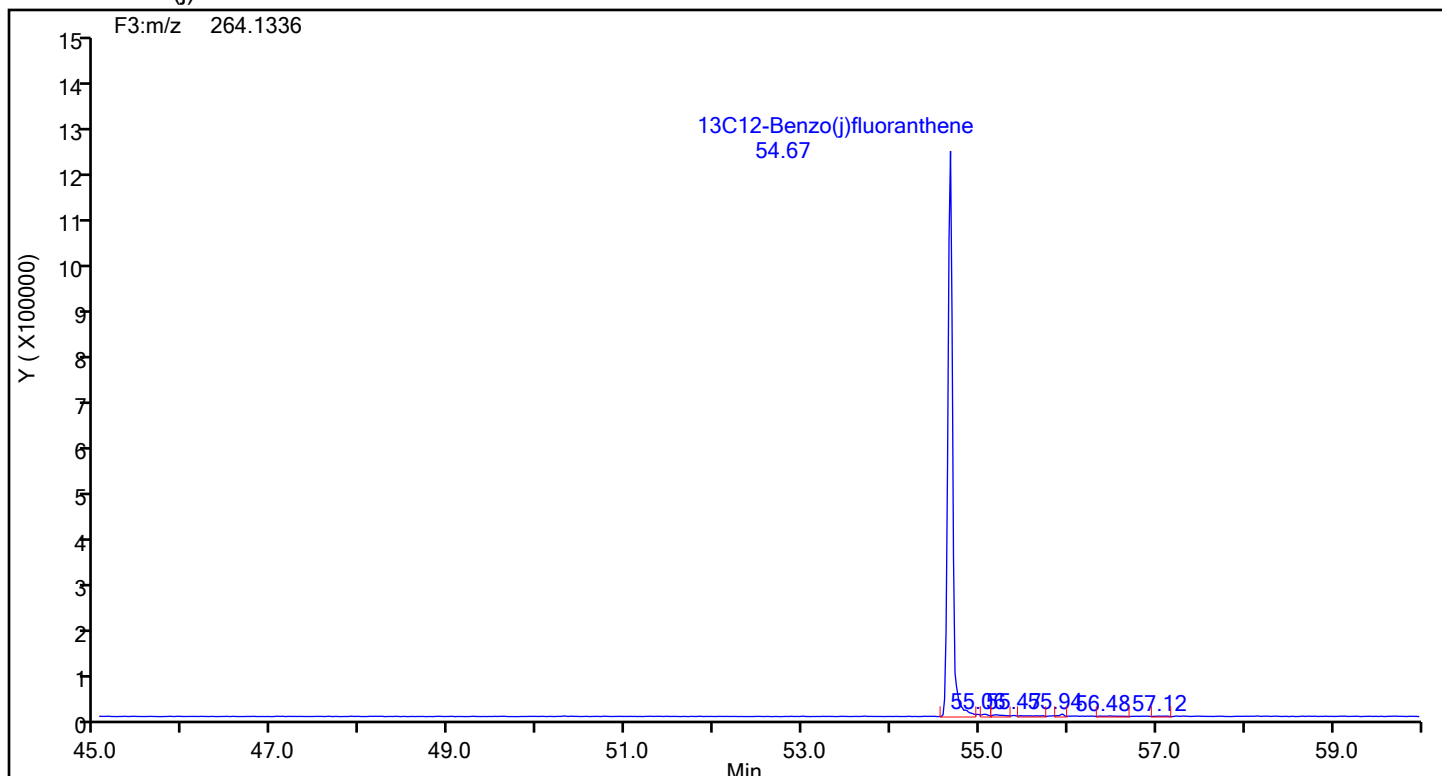
Benzo[b]fluoranthene Standards



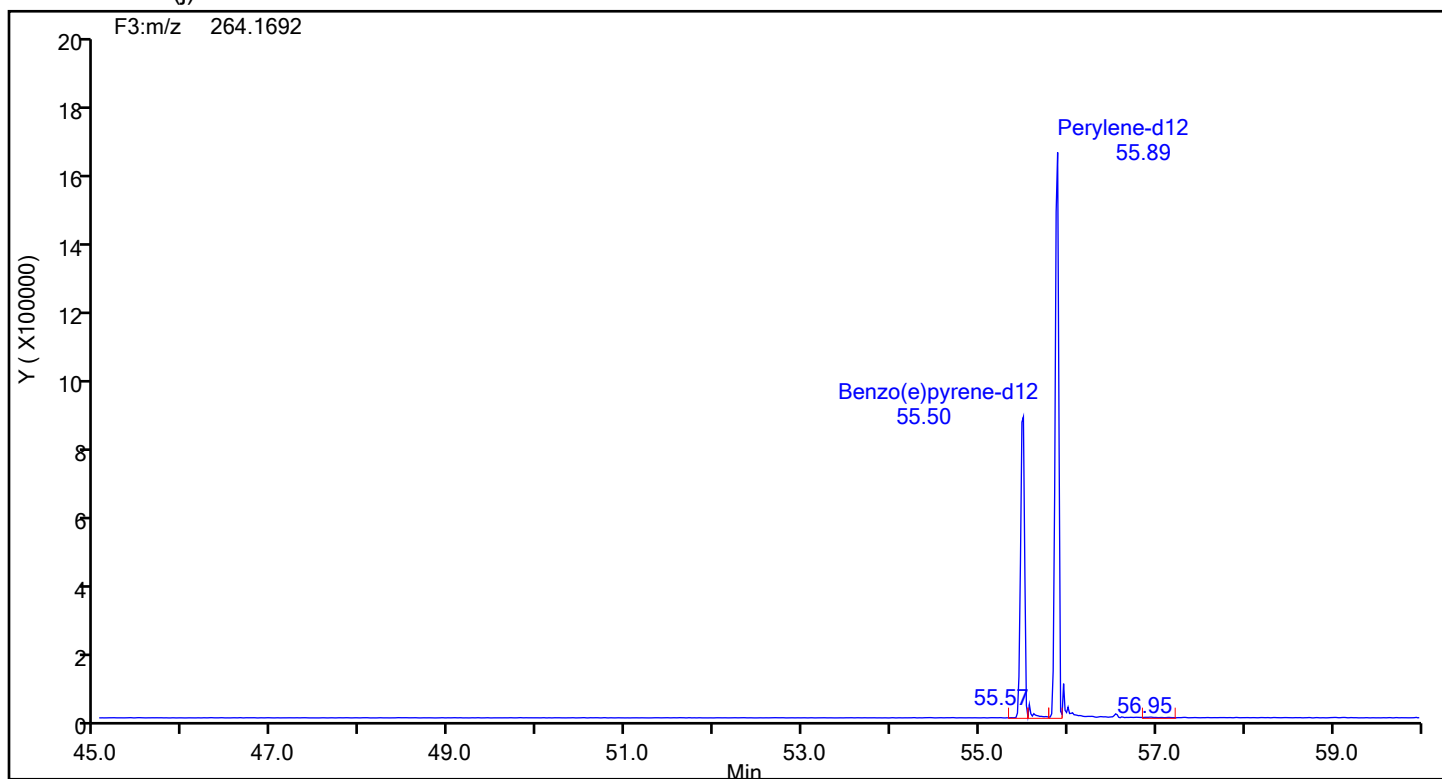
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



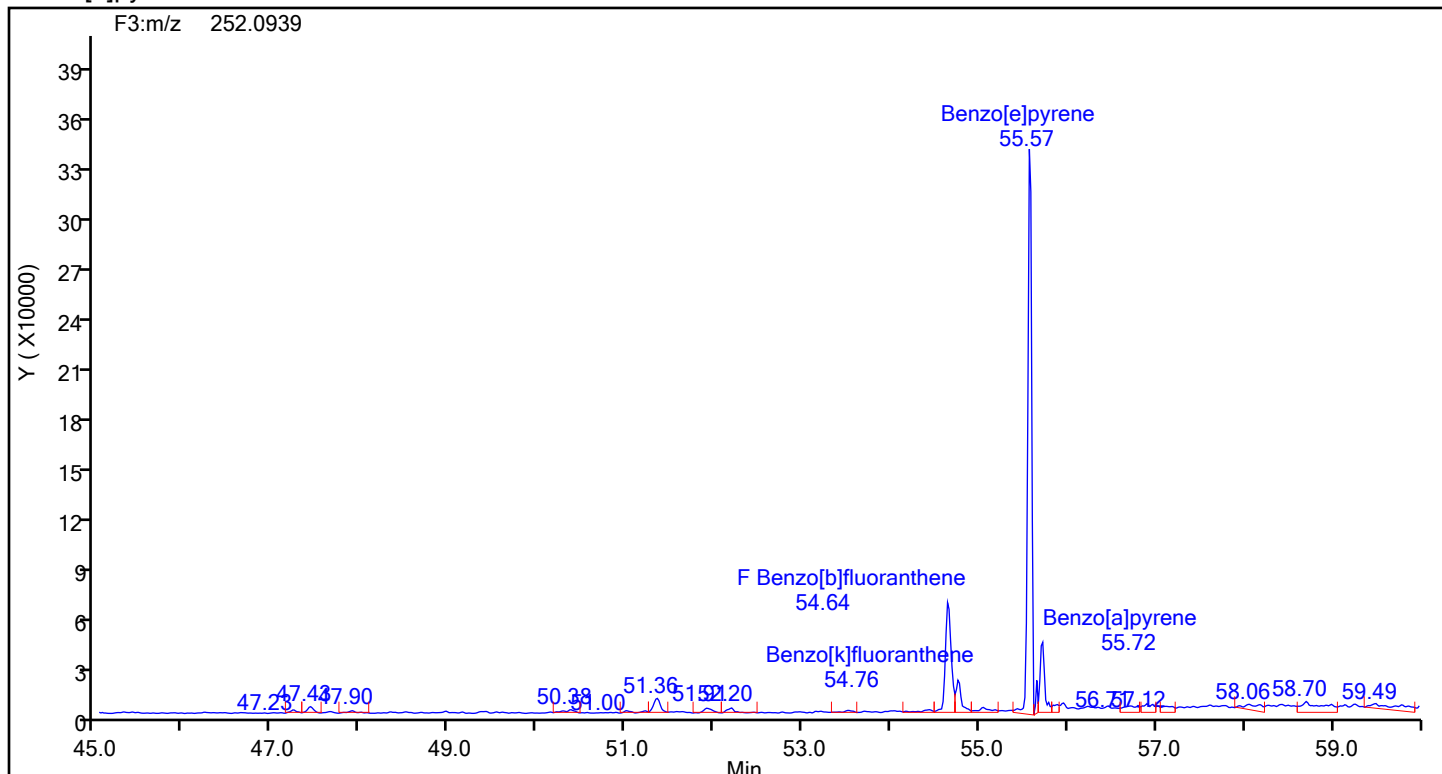
13C12-Benzo(j)fluoranthene Standards



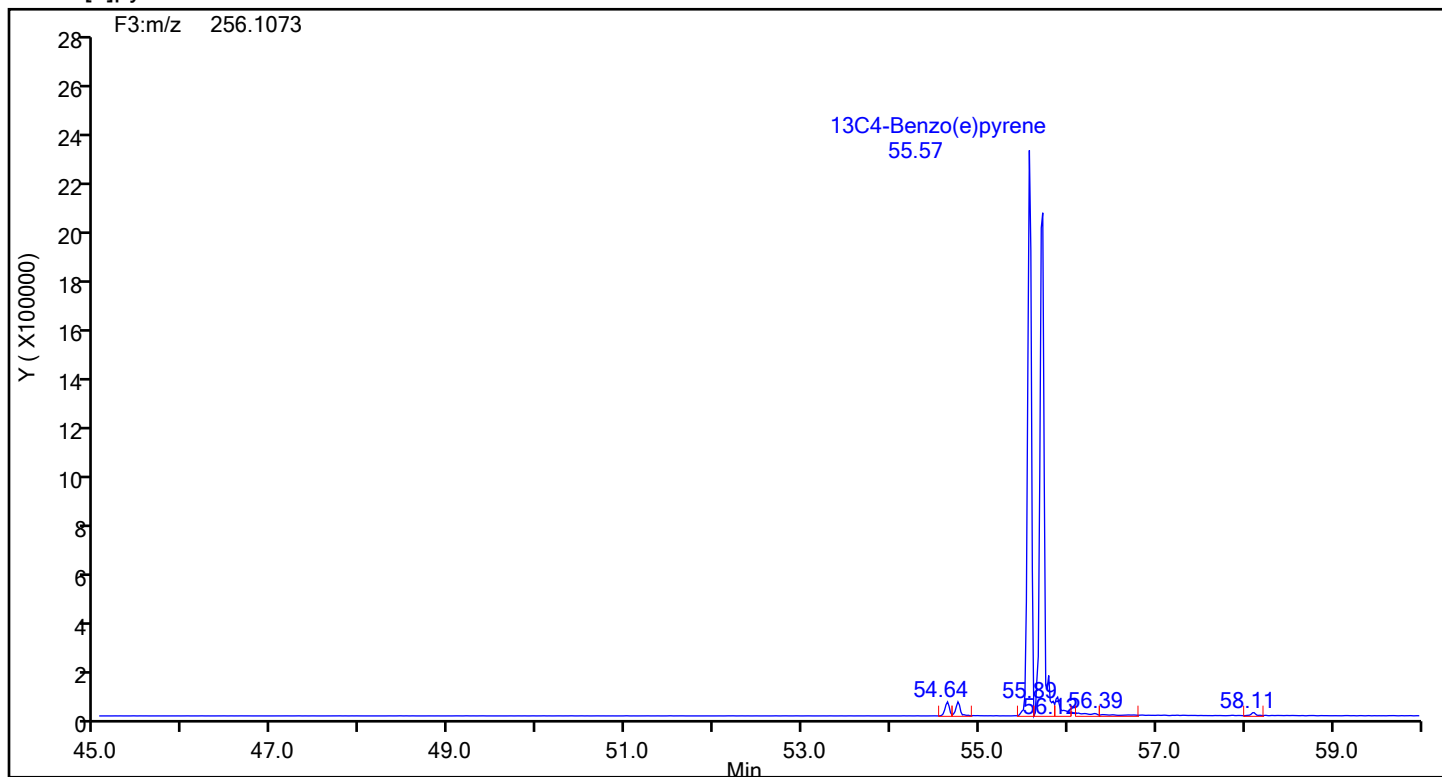
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



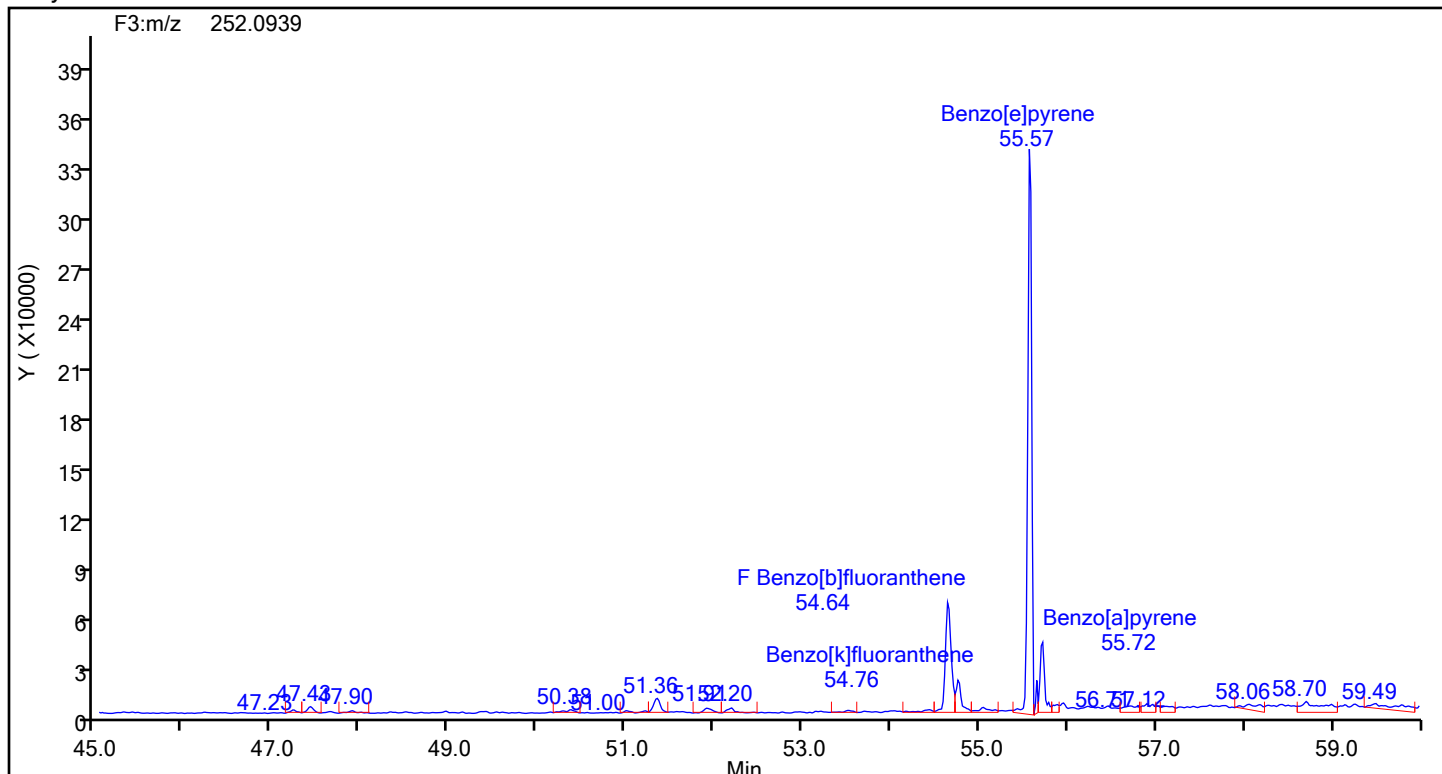
Benzo[e]pyrene Standards



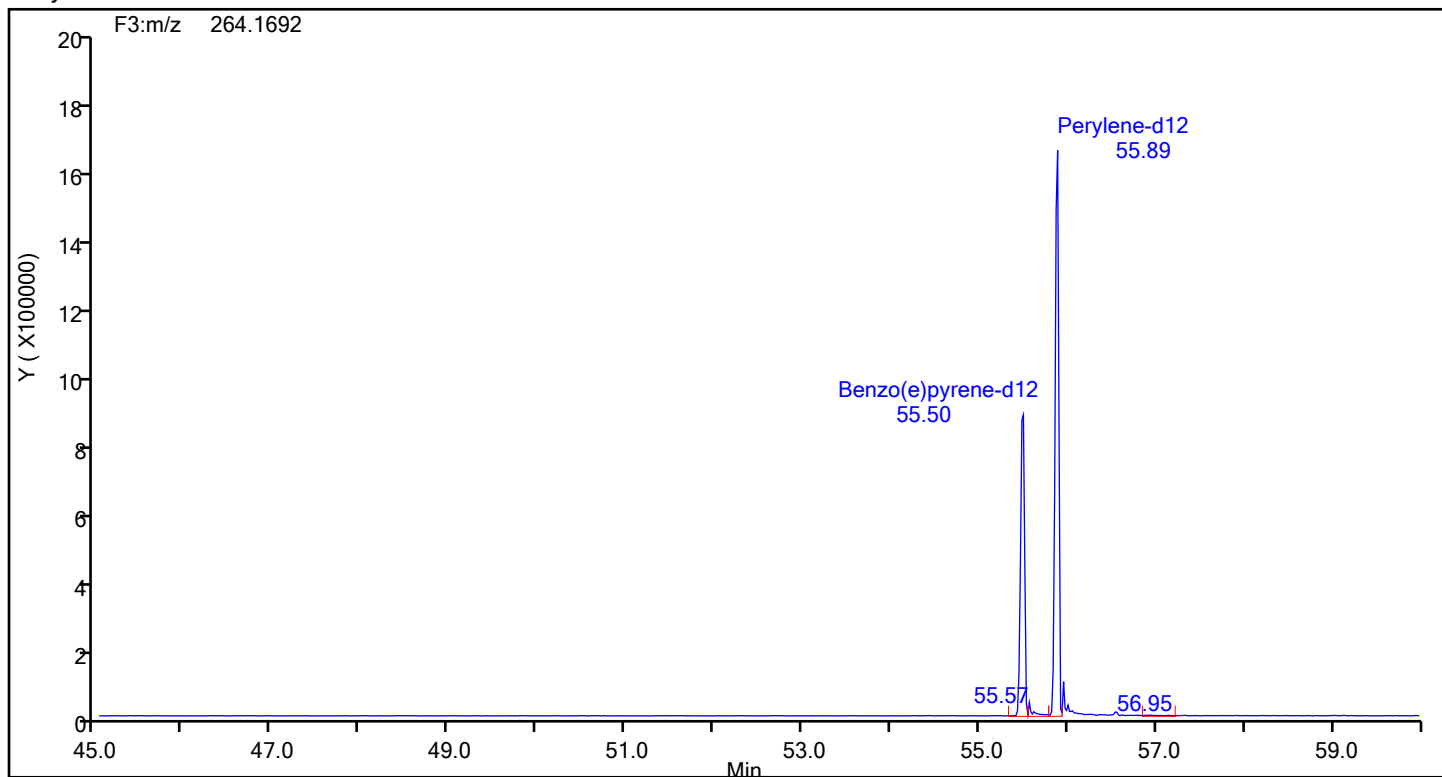
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

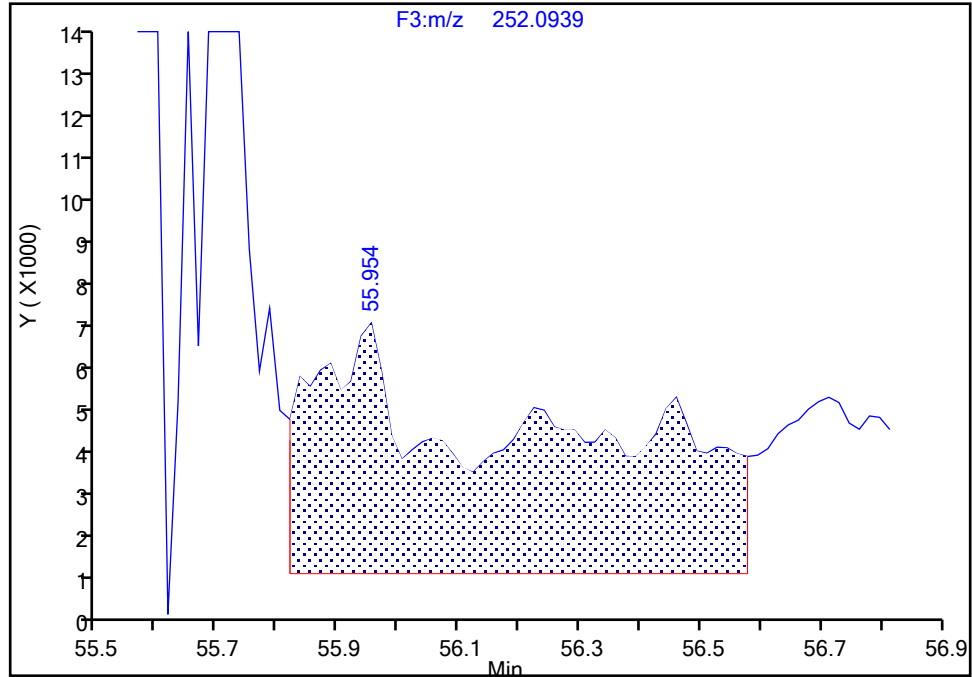
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-4-D Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

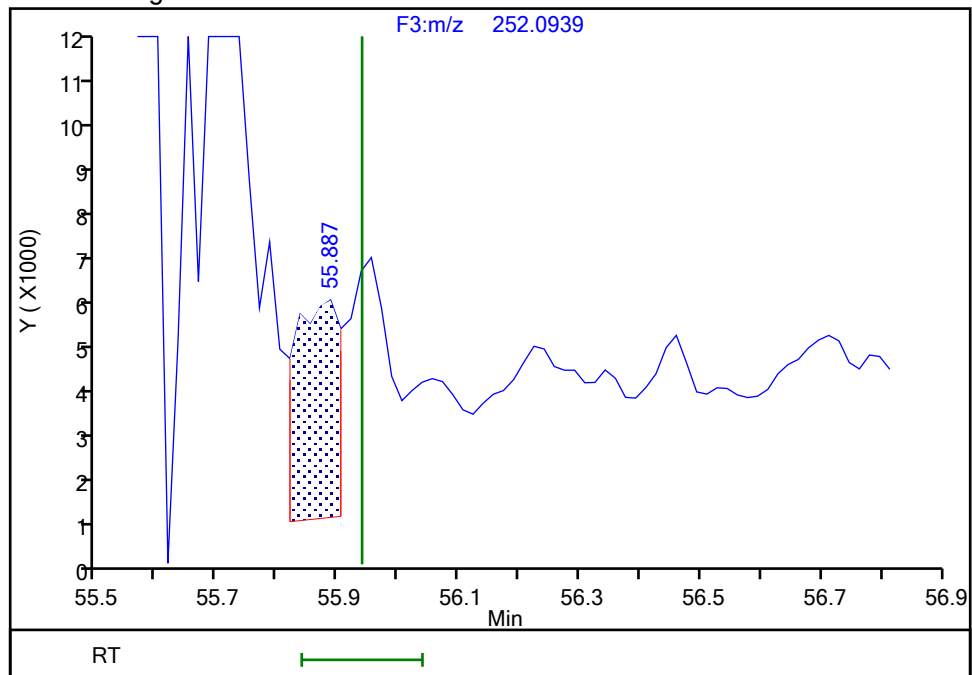
RT: 55.95
Area: 160785
Amount: 2.359084
Amount Units: pg/ul

Processing Integration Results



RT: 55.89
Area: 27035
Amount: 0.396665
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 15:07:11 -04:00:00 (UTC)

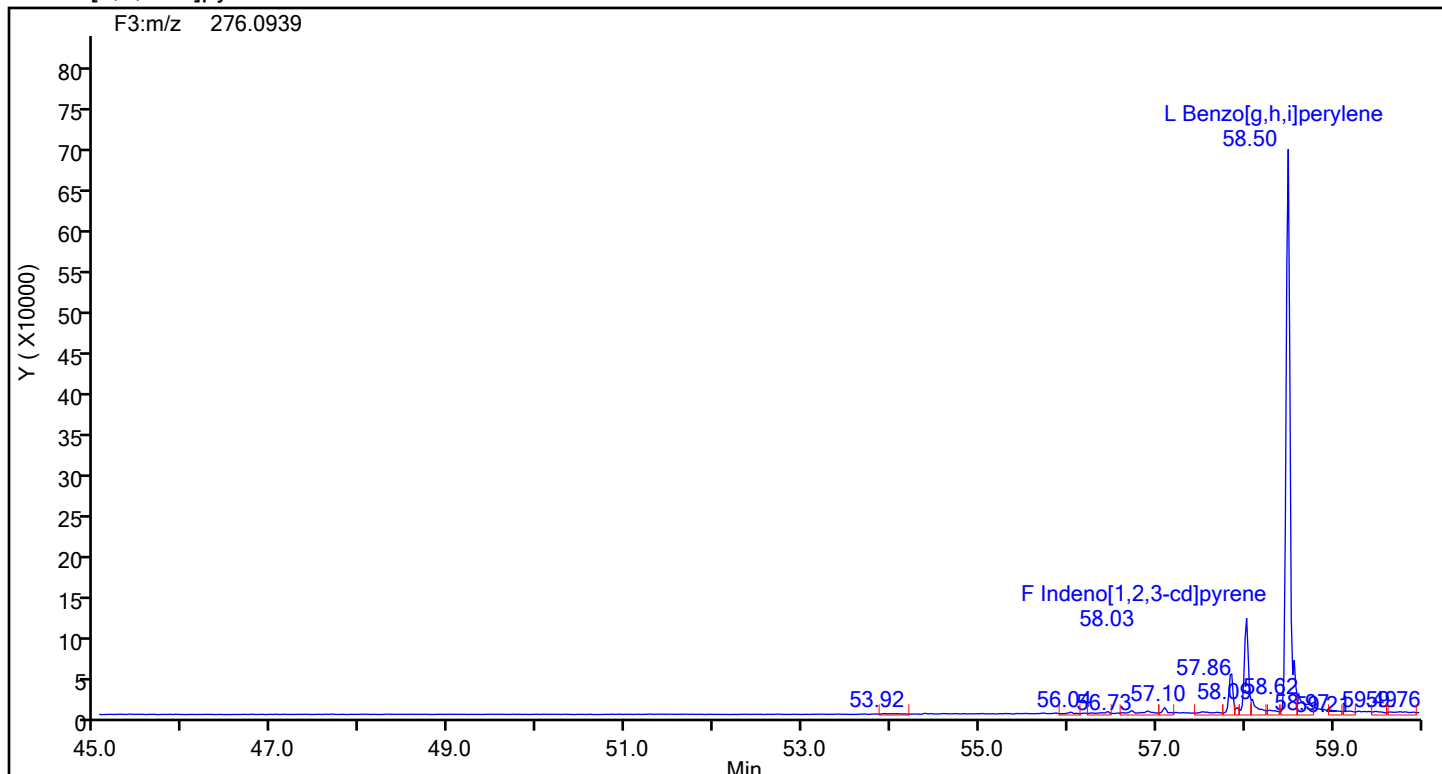
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

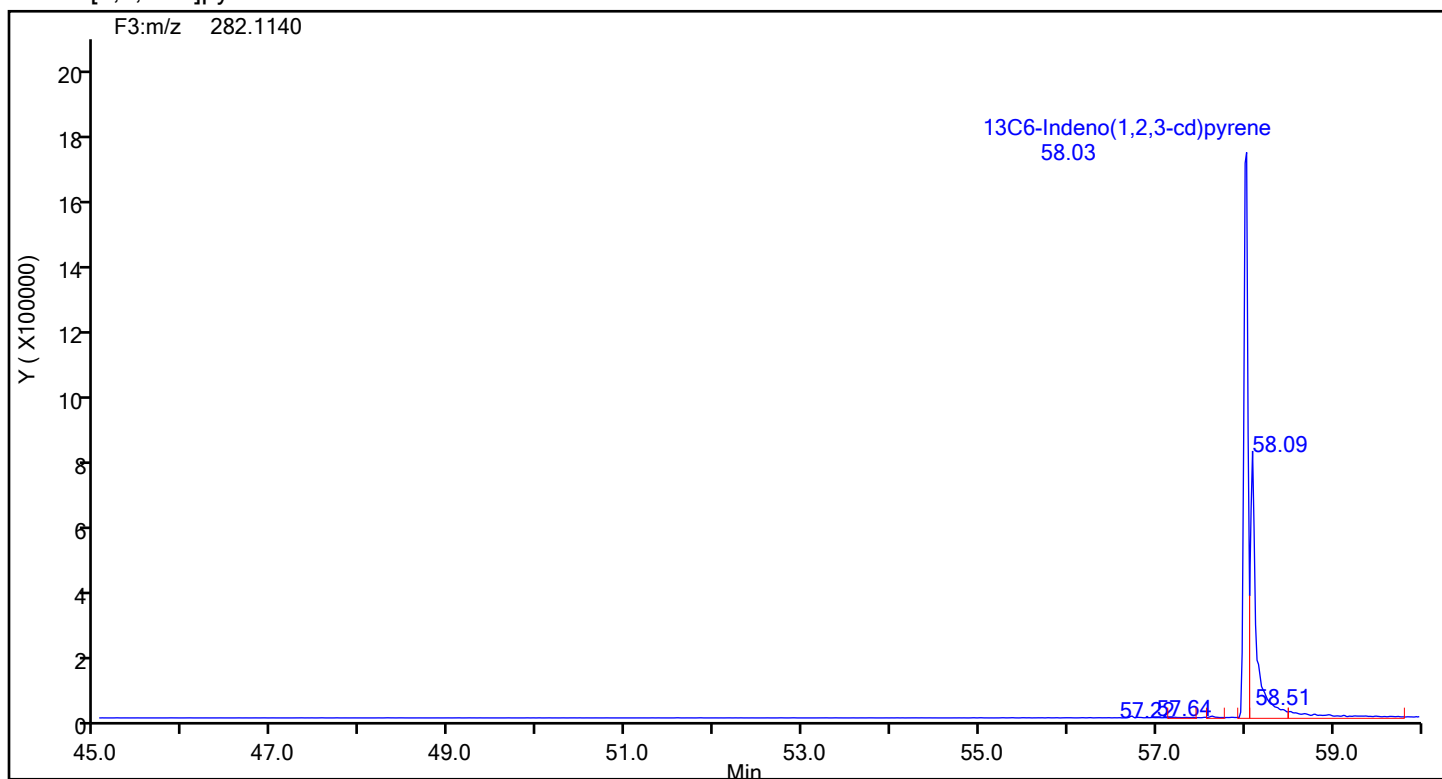
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

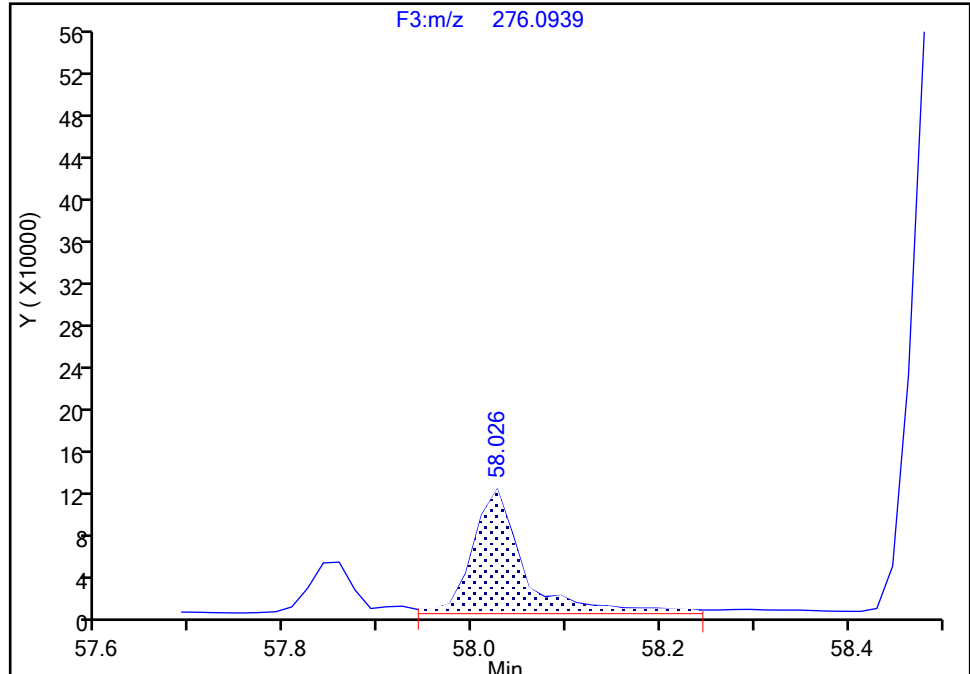
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-4-D Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

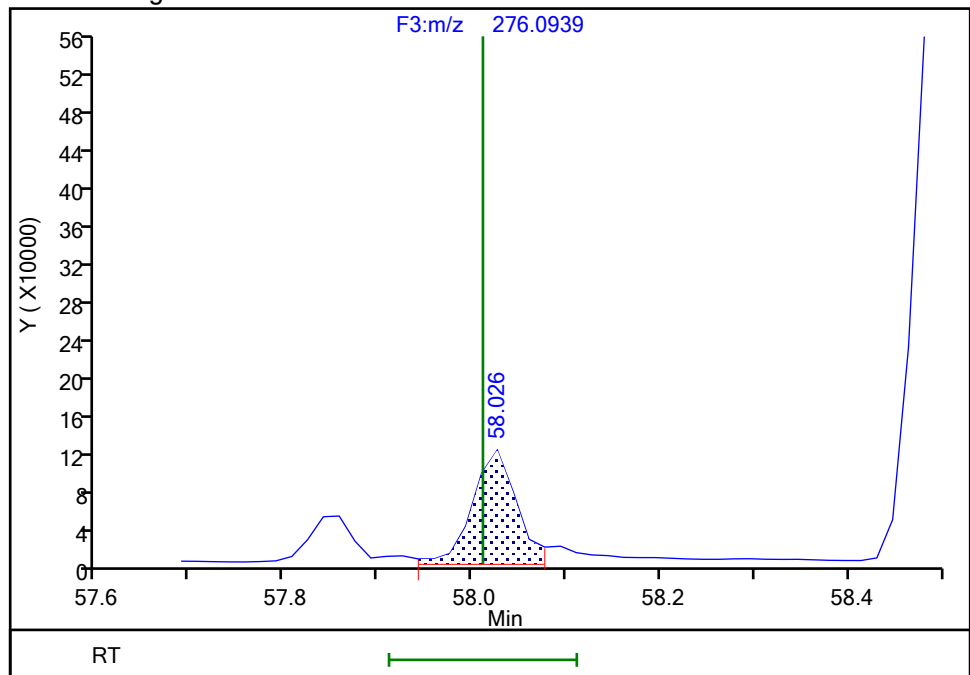
RT: 58.03
Area: 463814
Amount: 7.486584
Amount Units: pg/ul

Processing Integration Results



RT: 58.03
Area: 390072
Amount: 6.296289
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 15:07:23 -04:00:00 (UTC)

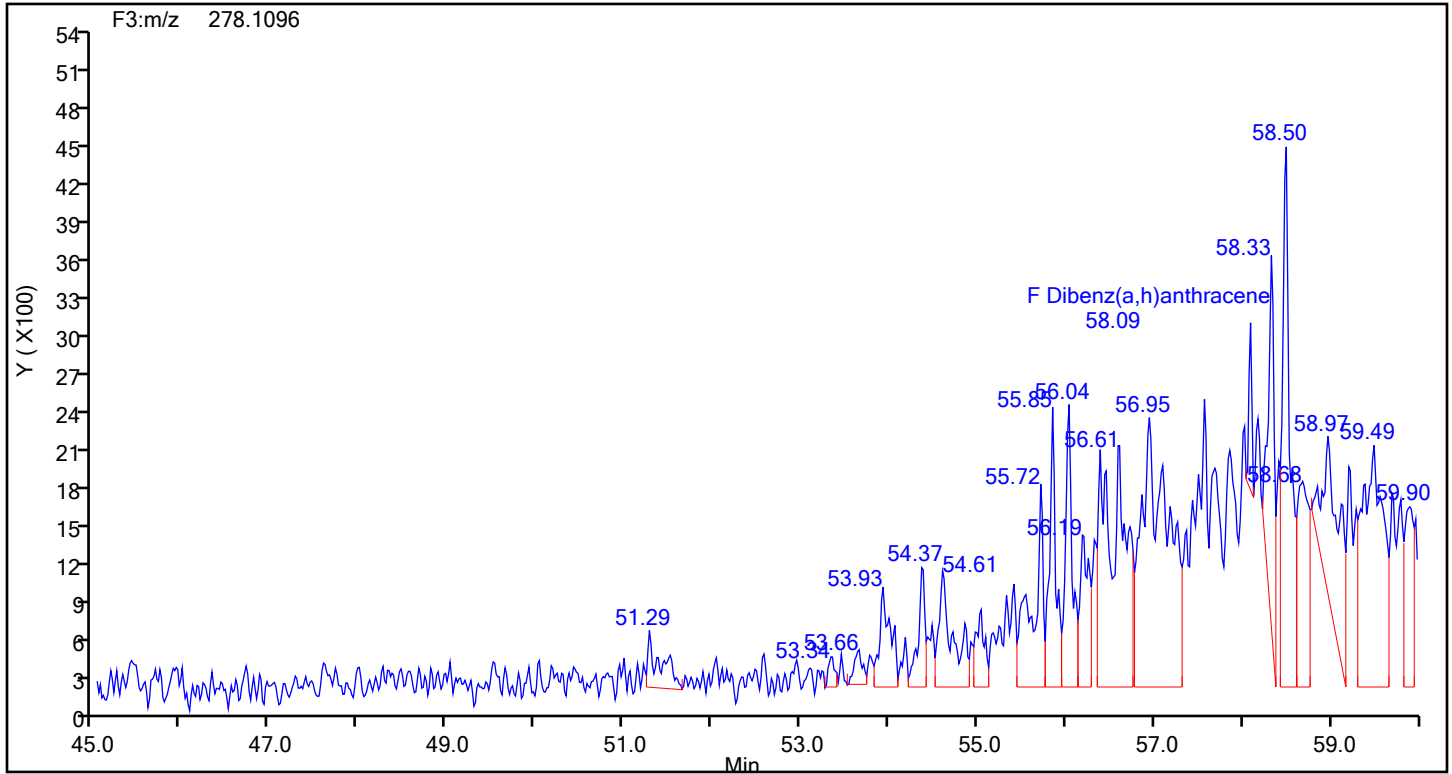
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

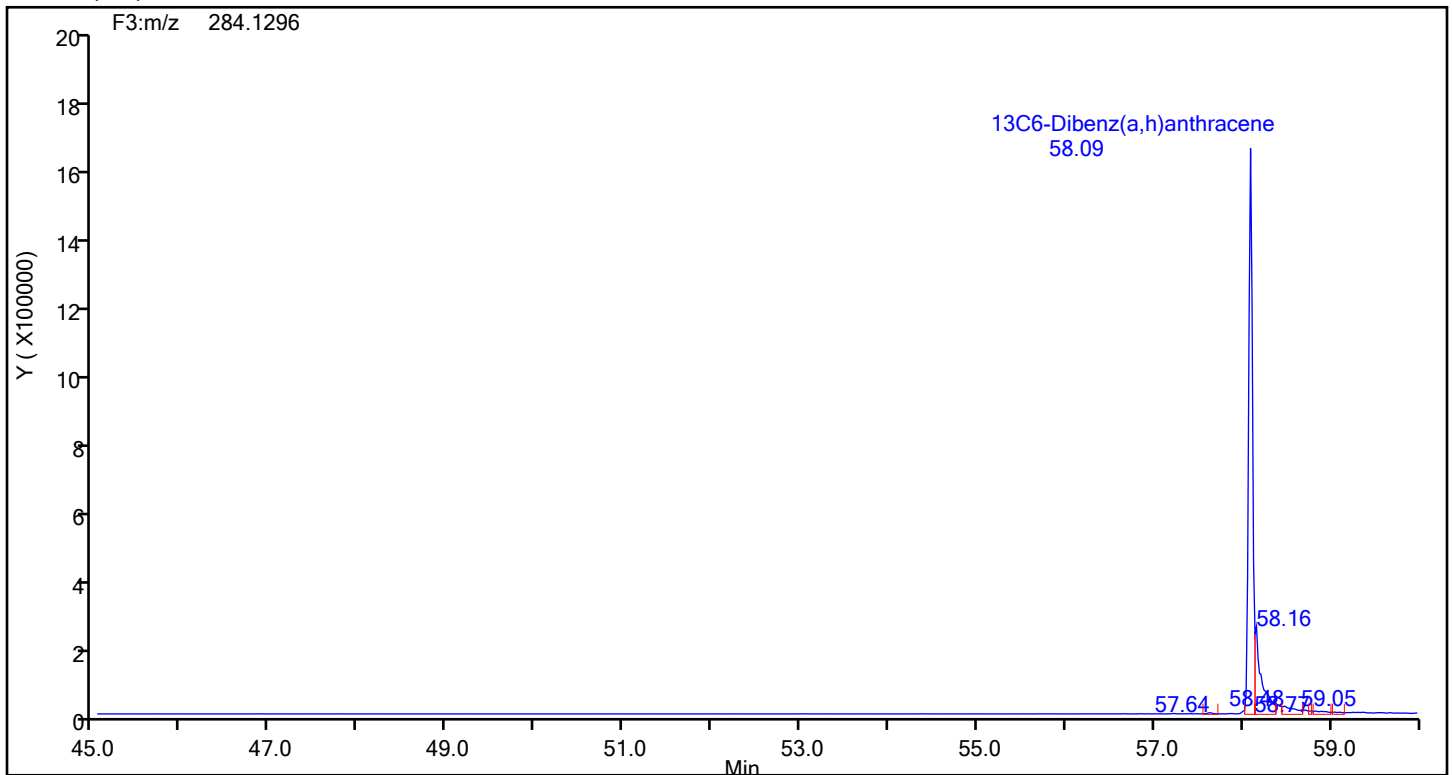
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87947 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

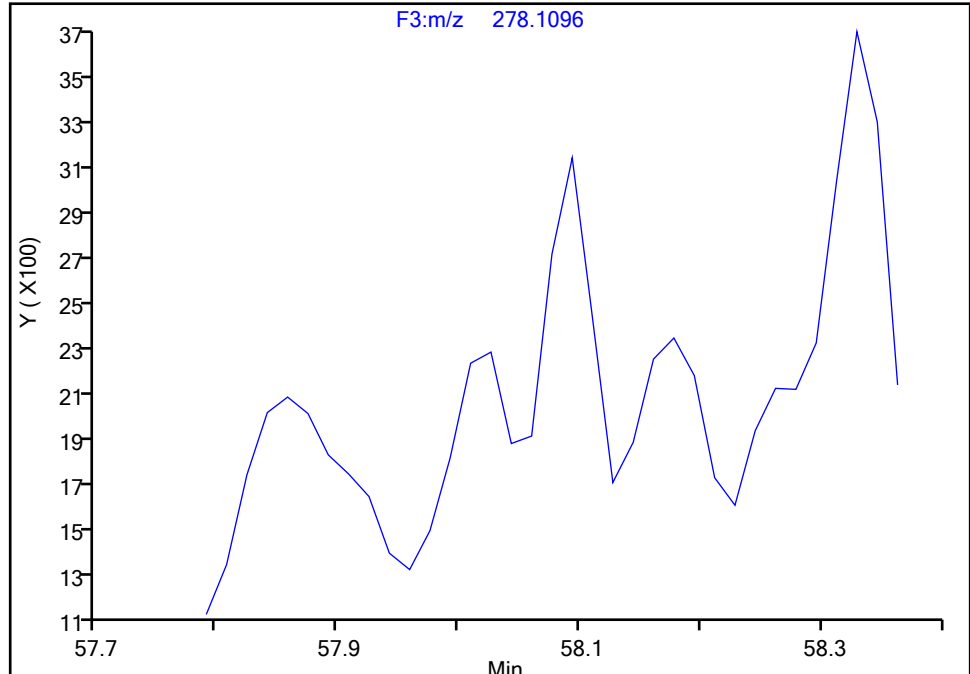
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-4-D Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

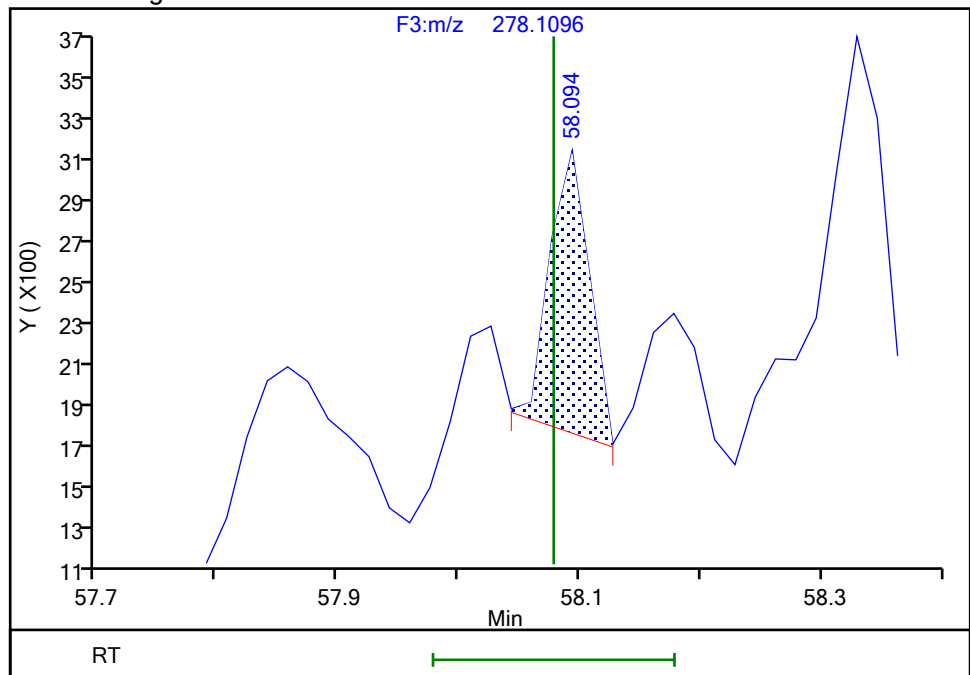
Not Detected
Expected RT: 58.08

Processing Integration Results



Manual Integration Results

RT: 58.09
Area: 2966
Amount: 0.050382
Amount Units: pg/ul



Reviewer: F9EE, 24-Jun-2024 15:05:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

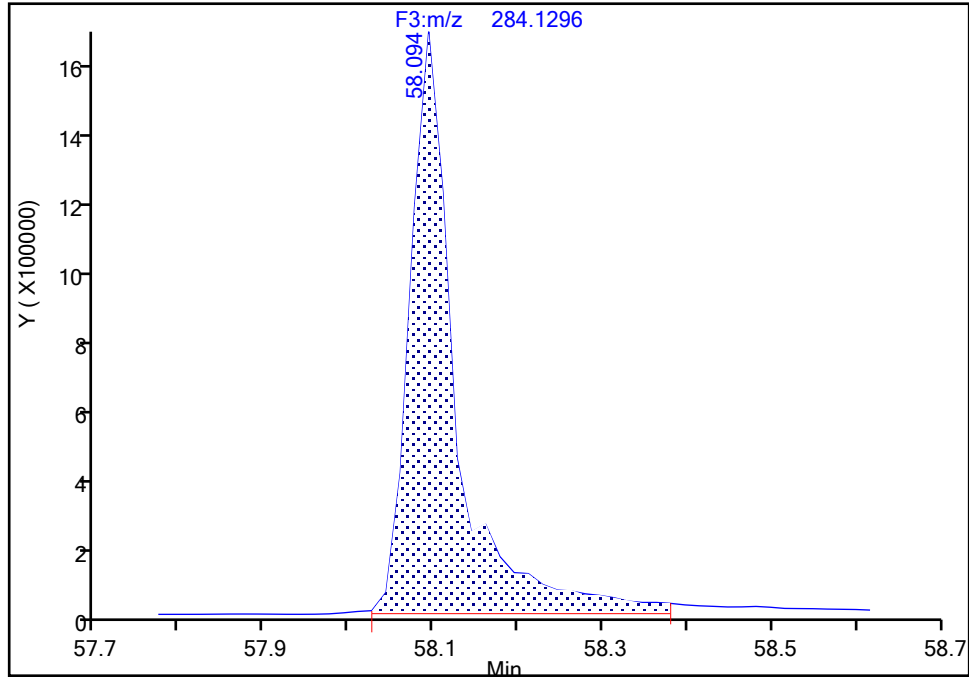
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-4-D Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: ST03360

Signal: 1

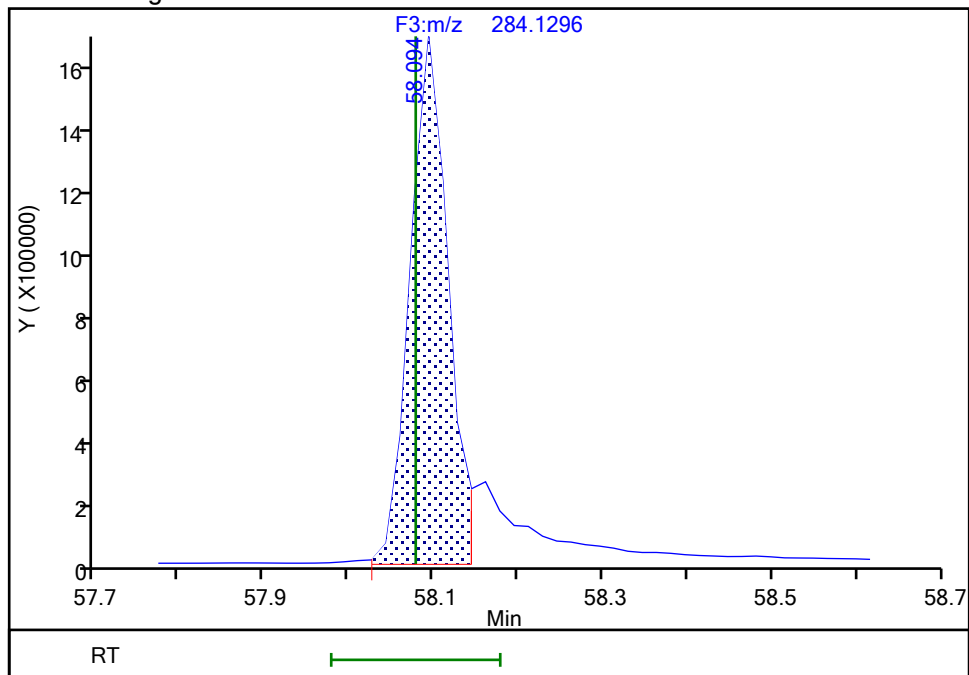
RT: 58.09
Area: 6360833
Amount: 107.9041
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
Area: 5203384
Amount: 88.269359
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 15:07:34 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d

Injection Date: 21-Jun-2024 23:38:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 4 COMBINED

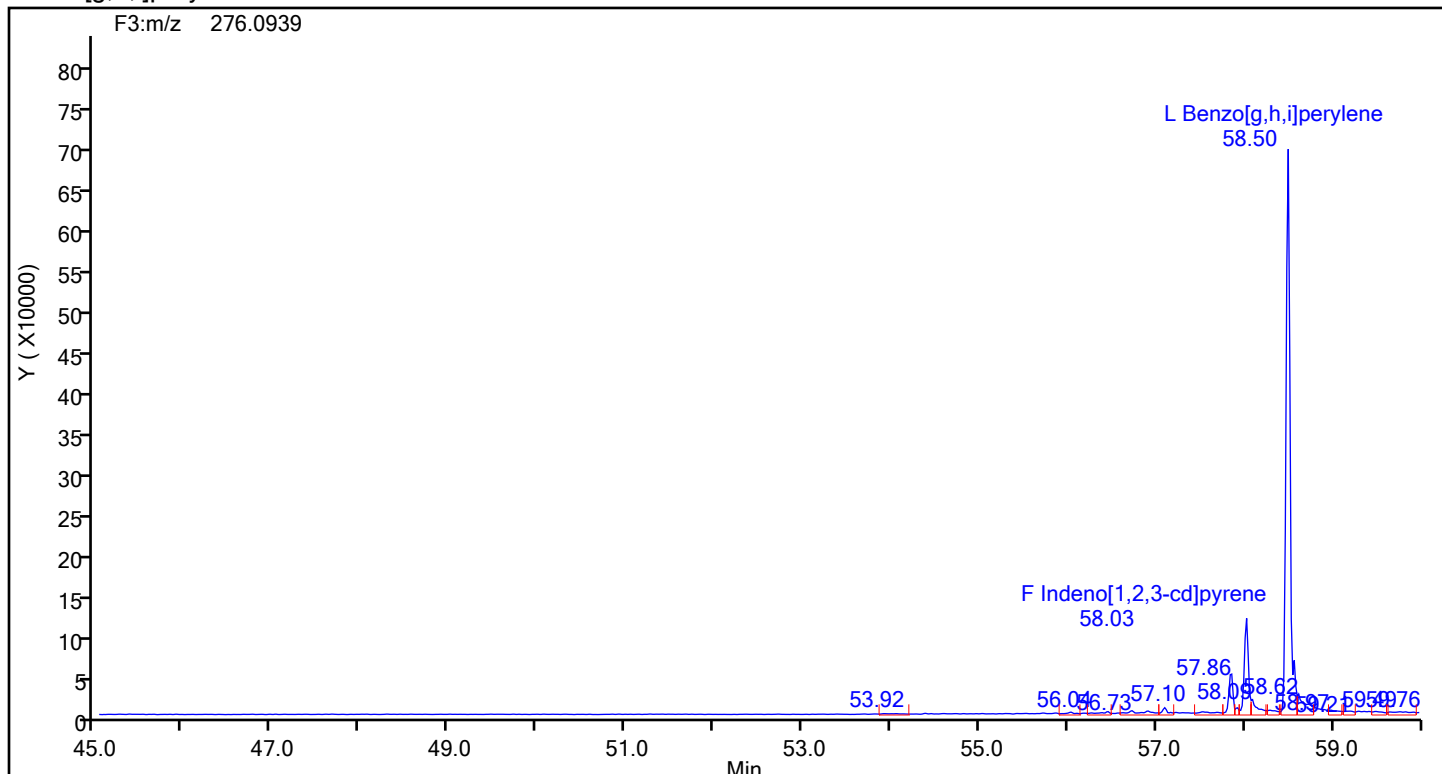
Worklist#: 87947

Sample Line#: 10

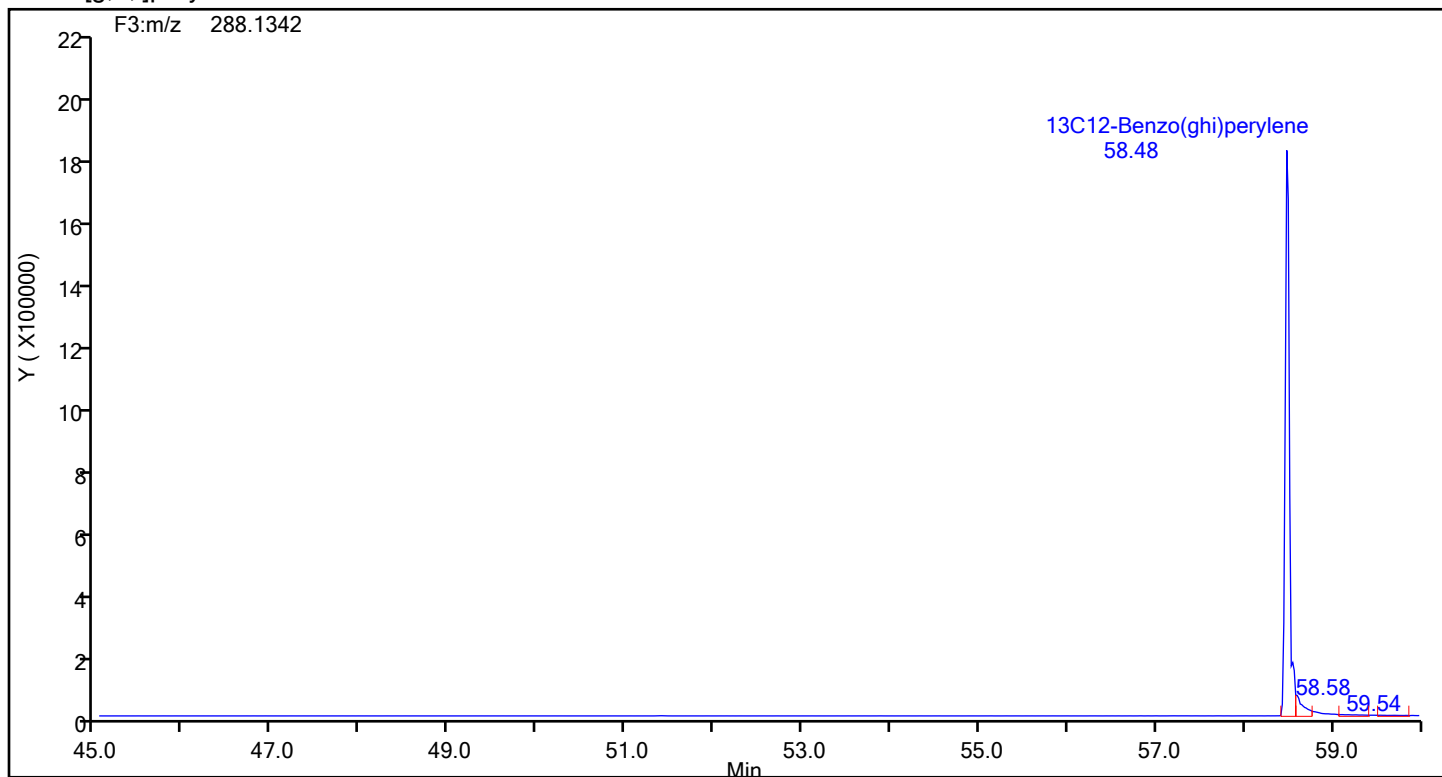
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



Eurofins Knoxville

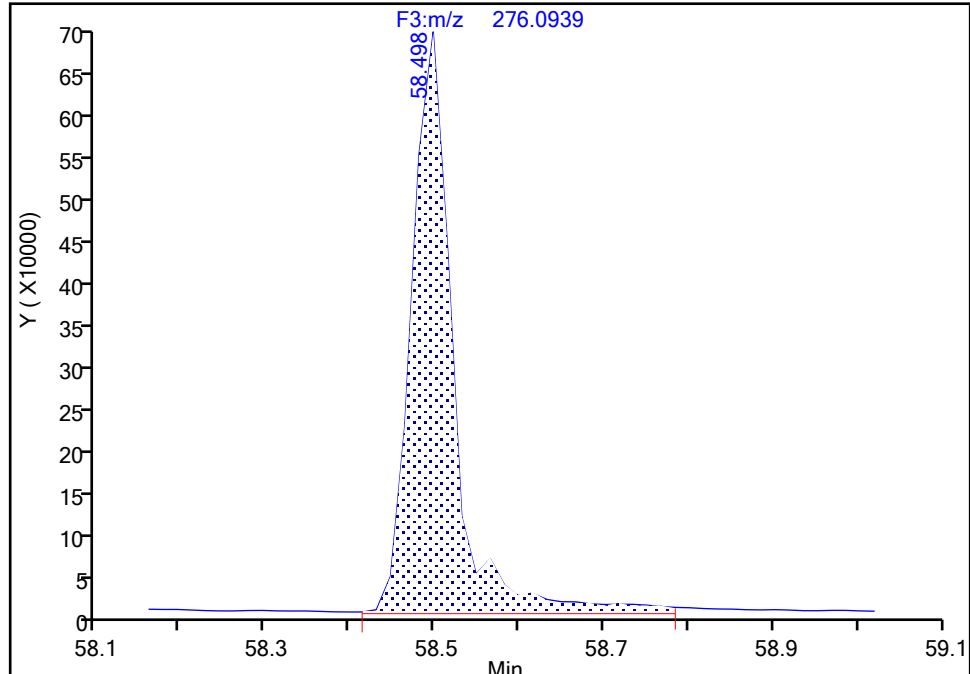
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-4-D Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

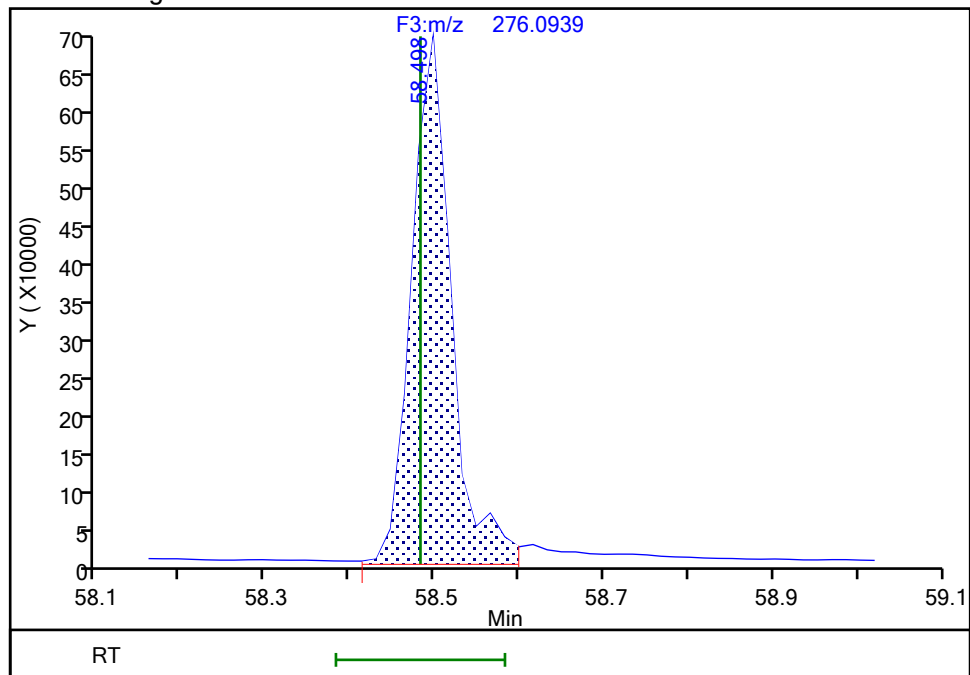
RT: 58.50
Area: 2422747
Amount: 30.451056
Amount Units: pg/ul

Processing Integration Results



RT: 58.50
Area: 2275483
Amount: 28.600122
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 15:07:55 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

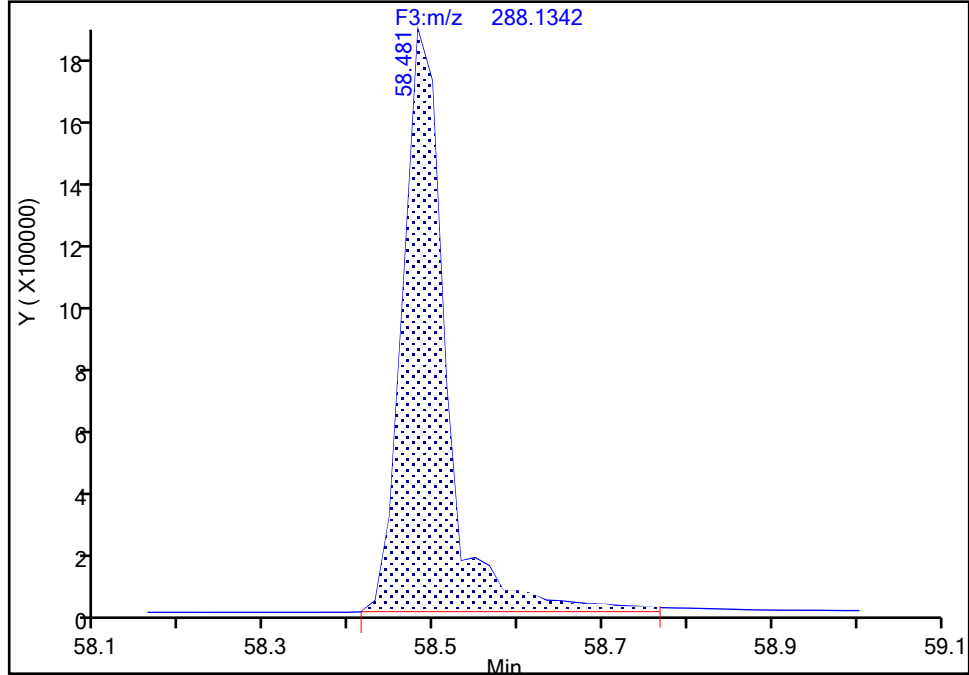
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Injection Date: 21-Jun-2024 23:38:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-4-D Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

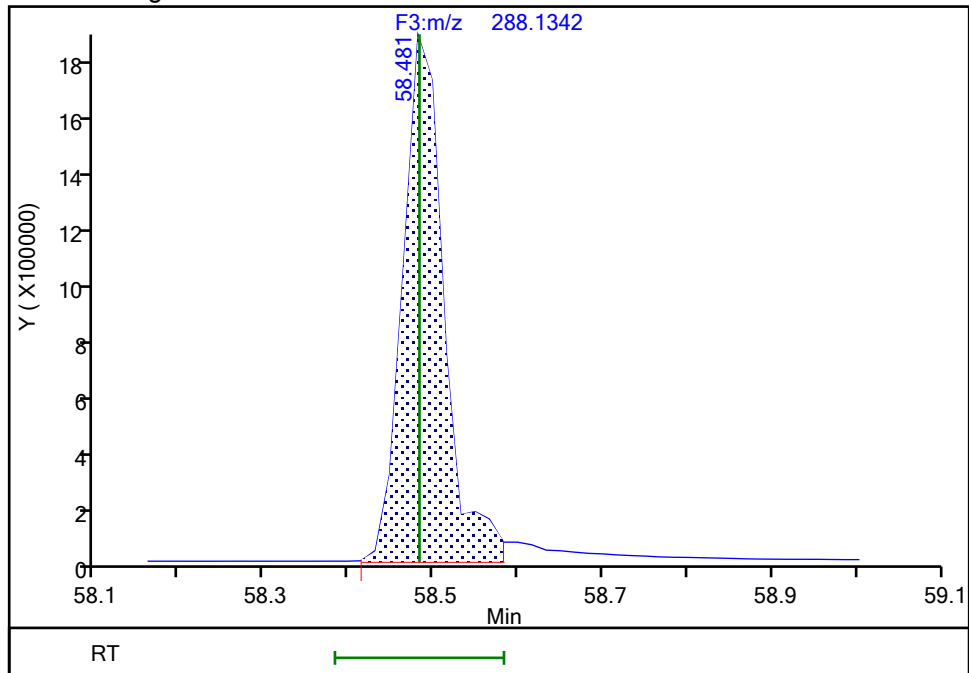
RT: 58.48
Area: 6549183
Amount: 91.961662
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 6197596
Amount: 87.024783
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 24-Jun-2024 15:07:44 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\140-36689-a-4-d.d
Lims ID: 140-36689-A-4-D
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Sample Type: Client
Inject. Date: 21-Jun-2024 23:38:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033215-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 26-Jun-2024 02:45:14 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1677

First Level Reviewer: F9EE

Date: 24-Jun-2024 15:07:58

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	1.78	17.75
13C6-Benzo(c)fluorene	66.7	71.4	107.09
13C12-Benzo(j)fluoranthene	66.7	58.7	88.11

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 5 COMBINED</u>	Lab Sample ID: <u>140-36689-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-5-da.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/09/2024 15:20</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/25/2024 18:54</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88079</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	206	B	75.0	75.0	0.476
91-57-6	2-Methylnaphthalene	154	B	75.0	75.0	0.112
208-96-8	Acenaphthylene	14.0	B	3.00	3.00	0.144
83-32-9	Acenaphthene	53.1	B	30.0	30.0	0.153
86-73-7	Fluorene	130	B	30.0	30.0	0.230
85-01-8	Phenanthrene	421	B	6.00	6.00	0.342
120-12-7	Anthracene	49.2	B	30.0	30.0	0.325
206-44-0	Fluoranthene	86.5	B	6.00	6.00	0.114
129-00-0	Pyrene	71.7	B	6.00	6.00	0.135
56-55-3	Benzo[a]anthracene	2.64	J B	6.00	6.00	0.0348
218-01-9	Chrysene	13.1	B	6.00	6.00	0.0344
205-99-2	Benzo[b]fluoranthene	5.60	J B	30.0	30.0	0.0264
207-08-9	Benzo[k]fluoranthene	1.23	J B	6.00	6.00	0.0254
192-97-2	Benzo[e]pyrene	10.7	B	6.00	6.00	0.0247
50-32-8	Benzo[a]pyrene	2.43	J B	3.00	3.00	0.0254
198-55-0	Perylene	0.432	J B	3.00	3.00	0.0265
193-39-5	Indeno[1,2,3-cd]pyrene	5.67	B	3.00	3.00	0.0207
53-70-3	Dibenz(a,h)anthracene	0.207	J B	6.00	6.00	0.00956
191-24-2	Benzo[g,h,i]perylene	29.9	B	6.00	6.00	0.0166

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 5 COMBINED</u>	Lab Sample ID: <u>140-36689-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-5-da.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/09/2024 15:20</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/25/2024 18:54</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88079</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	50		20-130
STL03357	13C6-2-Methylnaphthalene	51		20-130
189811-56-1	13C6-Acenaphthylene	76		20-130
189811-57-2	13C6-Acenaphthene	67		20-130
STL00616	13C6-Fluorene	79		20-130
1397194-60-3	13C6-Fluoranthrene	83		20-130
1397214-90-2	13C3-Pyrene	71		20-130
917378-11-1	13C6-Benzo (a) anthracene	73		20-130
1397177-72-8	13C6-Chrysene	73		20-130
STL03358	13C6-Benzo (b) fluoranthene	85		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	90		20-130
STL03382	13C4-Benzo (e) pyrene	76		20-130
STL03359	13C4-Benzo (a) pyrene	83		20-130
1520-96-3	Perylene-d12	74		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	72		20-130
STL03360	13C6-Dibenz (a,h) anthracene	94		20-130
350820-11-0	13C12-Benzo (ghi) perylene	75		20-130
189811-60-7	13C6-Anthracene	75		20-130
1189955-53-0	13C6-Phenanthrene	69		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d
 Lims ID: 140-36689-A-5-D
 Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
 Sample Type: Client
 Inject. Date: 25-Jun-2024 18:54:00 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033250-010
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 25-Jun-2024 20:05:06 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1670

First Level Reviewer: Q9DB

Date: 25-Jun-2024 20:07:10

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	4740856		3.3746	50.4	50.4	0.005871	0.005871	50.41	
Naphthalene	11:33	8386786		1.2893	137.2	137.2	0.3176	0.3176		
D 13C6-2-Methylnaphthalene	13:52	2273483		1.6031	50.9	50.9	0.003169	0.003169	50.89	
2-Methylnaphthalene	13:52	2986065		1.2786	102.7	102.7	0.0749	0.0749		
D 13C6-Acenaphthylene	16:45	3492908		1.6520	75.9	75.9	0.004305	0.004305	75.86	
Acenaphthylene	16:45	401983		2.3661	9.328	9.328	0.0960	0.0960		
* Acenaphthene-d10	17:19	1393548		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:27	1821293		0.9792	66.7	66.7	0.0106	0.0106	66.74	
Acenaphthene	17:27	818502		1.2697	35.4	35.4	0.1023	0.1023		
D 13C6-Fluorene	19:44	1966877		0.8898	79.3	79.3	0.0280	0.0280	79.31	
Fluorene	19:44	2138552		1.2532	86.8	86.8	0.1532	0.1532		
D 13C6-Phenanthrene	25:07	3240260		0.5724	69.1	69.1	0.006757	0.006757	69.11	
Phenanthrene	25:08	10041296		1.1044	280.6	280.6	0.2277	0.2277		
\$ Anthracin-d10	25:20	153069		0.4257	4.390	4.390	0.004543	0.004543	43.90	
D 13C6-Anthracene	25:27	2776196		0.4523	74.9	74.9	0.008551	0.008551	74.93	
Anthracene	25:27	1237955		1.3586	32.8	32.8	0.2168	0.2168		
D 13C6-Fluoranthrene	33:52	8184698		1.1994	83.3	83.3	0.0247	0.0247	83.31	
Fluoranthene	33:53	5433615		1.1513	57.7	57.7	0.0761	0.0761		
* Pyrene-d10	35:25	4095540		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:34	7839806		1.3512	70.8	70.8	0.0148	0.0148	70.83	
Pyrene	35:34	3992785		1.0652	47.8	47.8	0.0898	0.0898		
\$ 13C6-Benzo(c)fluorene	39:16	2230985		0.5136	53.0	53.0	0.008787	0.008787	79.55	
D 13C6-Benzo(a)anthracene	46:05	8700227		1.5189	72.6	72.6	0.0147	0.0147	72.58	
Benzo[a]anthracene	46:06	148868		0.9739	1.757	1.757	0.0232	0.0232		
D 13C6-Chrysene	46:22	9350326		1.6287	72.7	72.7	0.0137	0.0137	72.75	
Chrysene	46:22	804189		0.9815	8.763	8.763	0.0229	0.0229		
D 13C6-Benzo(b)fluoranthene	54:39	9834696		1.4621	85.2	85.2	0.005383	0.005383	85.24	
Benzo[b]fluoranthene	54:39	413146		1.1249	3.734	3.734	0.0176	0.0176		
\$ 13C12-Benzo(j)fluoranthene	54:41	6207341		1.3558	58.0	58.0	0.0207	0.0207	87.02	
D 13C6-Benzo(k)fluoranthene	54:46	12471103		1.7507	90.3	90.3	0.004495	0.004495	90.27	
Benzo[k]fluoranthene	54:46	114993		1.1271	0.8181	0.8181	0.0169	0.0169		
* Benzo(e)pyrene-d12	55:29	3945652		5.7E+04	50.0	50.0				
Benzo[e]pyrene	55:34	703203		1.0013	7.150	7.150	0.0165	0.0165		
D 13C4-Benzo(e)pyrene	55:34	9821896		1.6368	76.0	76.0	0.0144	0.0144	76.04	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[a]pyrene	55:42	181974		1.1130	1.618	1.618	0.0169	0.0169		
D 13C4-Benzo(a)pyrene	55:42	10103022		1.5508	82.6	82.6	0.0152	0.0152	82.56	
D Perylene-d12	55:53	6971756		1.1917	74.1	74.1	0.0216	0.0216	74.14	
Perylene	55:54	28757		1.4307	0.2883	0.2883	0.0177	0.0177		M
Indeno[1,2,3-cd]pyrene	58:01	247125		1.1249	3.782	3.782	0.0138	0.0138		M
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	5809251		1.0218	72.0	72.0	0.0106	0.0106	72.04	
D 13C6-Dibenz(a,h)anthracene	58:06	7869242		1.0553	94.5	94.5	0.006461	0.006461	94.50	
Dibenz(a,h)anthracene	58:05	12288		1.1314	0.1380	0.1380	0.006377	0.006377		M
D 13C12-Benzo(ghi)perylene	58:29	7585250		1.2749	75.4	75.4	0.005715	0.005715	75.40	
Benzo[g,h,i]perylene	58:30	1939607		1.2838	19.9	19.9	0.0111	0.0111		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d
 Lims ID: 140-36689-A-5-D
 Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
 Sample Type: Client
 Inject. Date: 25-Jun-2024 18:54:00 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033250-010
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 25-Jun-2024 20:05:06 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1670

First Level Reviewer: Q9DB

Date: 25-Jun-2024 20:07:10

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:32	0	0.667	4740856	1687551	78	195	21635		
Naphthalene											
128.0626	11:33	11:33	0	1.001	8386786	2900823	2764	6910	1050		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	-1	0.800	2273483	1065811	20	50	53291		
2-Methylnaphthalene											
142.0783	13:52	13:52	-1	1.000	2986065	1324865	408	1020	3247		
13C6-Acenaphthylene											
158.0828	16:45	16:45	-1	0.967	3492908	1252473	28	70	44731		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	401983	149178	563	1407	265		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		1393548	492126	38	95	12951		
13C6-Acenaphthene											
160.0984	17:27	17:27	-1	1.007	1821293	619607	41	102	15112		
Acenaphthene											
154.0783	17:27	17:27	-1	1.000	818502	278734	322	805	866		
13C6-Fluorene											
172.0984	19:44	19:43	-1	1.139	1966877	578016	98	245	5898		
Fluorene											
166.0783	19:44	19:44	-1	1.001	2138552	611389	444	1110	1377		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	3240260	774211	24	60	32259		
Phenanthrene											
178.0783	25:08	25:07	0	1.000	10041296	2281315	779	1947	2929		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:20	-1	0.715	153069	40495	12	30	3375		
13C6-Anthracene											
184.0984	25:27	25:27	-1	0.718	2776196	661044	24	60	27544		
Anthracene											
178.0783	25:27	25:27	0	1.000	1237955	269900	779	1947	346		
13C6-Fluoranthrene											
208.0984	33:52	33:53	-1	0.956	8184698	1569226	184	460	8528		
Fluoranthene											
202.0783	33:53	33:53	-1	1.000	5433615	1047086	550	1375	1904		
Pyrene-d10											
212.1404	35:25	35:25	0		4095540	775568	49	122	15828		
13C3-Pyrene											
205.0883	35:34	35:34	0	1.004	7839806	1437358	124	310	11592		
Pyrene											
202.0783	35:34	35:34	0	1.000	3992785	744297	550	1375	1353		
13C6-Benzo(c)fluorene											
222.1134	39:16	39:16	0	0.708	2230985	411925	28	70	14712		
13C6-Benzo(a)anthracene											
234.1140	46:05	46:06	0	1.301	8700227	1490710	229	572	6510		
Benzo[a]anthracene											
228.0939	46:06	46:05	1	1.000	148868	27516	135	337	204		
13C6-Chrysene											
234.1140	46:22	46:22	0	1.309	9350326	1496920	229	572	6537		
Chrysene											
228.0939	46:22	46:22	0	1.000	804189	94706	135	337	702		
13C6-Benzo(b)fluoranthene											
258.1140	54:39	54:38	1	0.985	9834696	2653423	81	202	32758		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	0	1.000	413146	86858	210	525	414		
13C12-Benzo(j)fluoranthene											
264.1336	54:41	54:40	1	0.985	6207341	1495887	288	720	5194		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:46	0	0.987	12471103	2754200	81	202	34002		
Benzo[k]fluoranthene											
252.0939	54:46	54:46	0	1.000	114993	25533	210	525	122		
Benzo(e)pyrene-d12											
264.1692	55:29	55:30	0		3945652	1283360	264	660	4861		
Benzo[e]pyrene											
252.0939	55:34	55:34	0	1.000	703203	228266	210	525	1087		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:34	0	1.002	9821896	3181470	243	607	13092		
Benzo[a]pyrene											
252.0939	55:42	55:42	0	1.000	181974	36052	210	525	172		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:42	55:42	0	1.004	10103022	2788581	243	607	11476		
Perylene-d12											
264.1692	55:53	55:53	0	1.007	6971756	2078869	264	660	7875		
Perylene											M
252.0939	55:54	55:54	-3	1.000	28757	5643	210	525	27		M
Indeno[1,2,3-cd]pyrene											M
276.0939	58:01	58:01	0	1.000	247125	66840	111	277	602		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:01	0	1.046	5809251	1783751	111	277	16070		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:05	1	1.047	7869242	1594057	70	175	22772		
Dibenz(a,h)anthracene											M
278.1096	58:05	58:05	-1	1.000	12288	2636	46	115	57		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:29	0	1.054	7585250	1946902	75	187	25959		
Benzo[g,h,i]perylene											
276.0939	58:30	58:29	1	1.000	1939607	476193	111	277	4290		

QC Flag Legend

Processing Flags

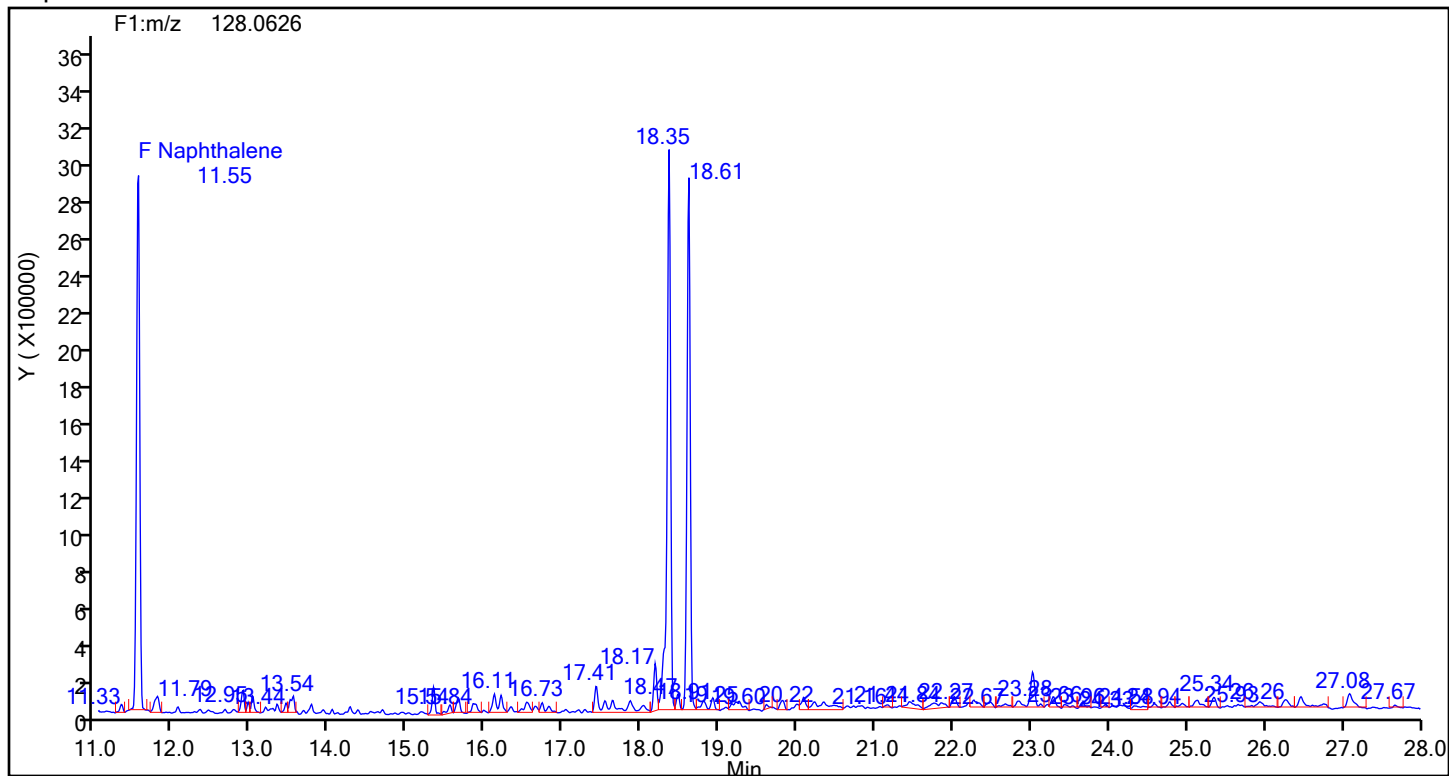
Review Flags

M - Manually Integrated

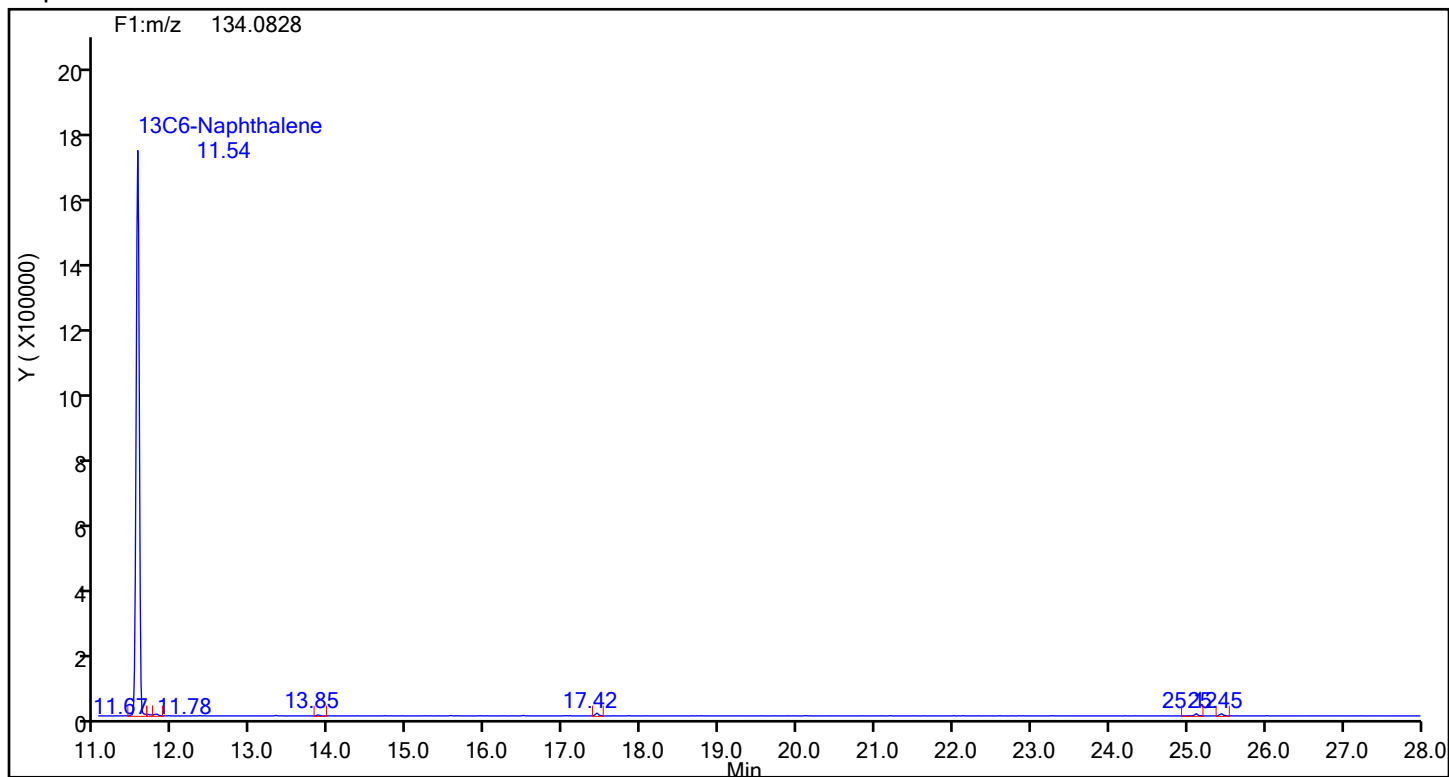
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d
Injection Date: 25-Jun-2024 18:54:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 88079 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



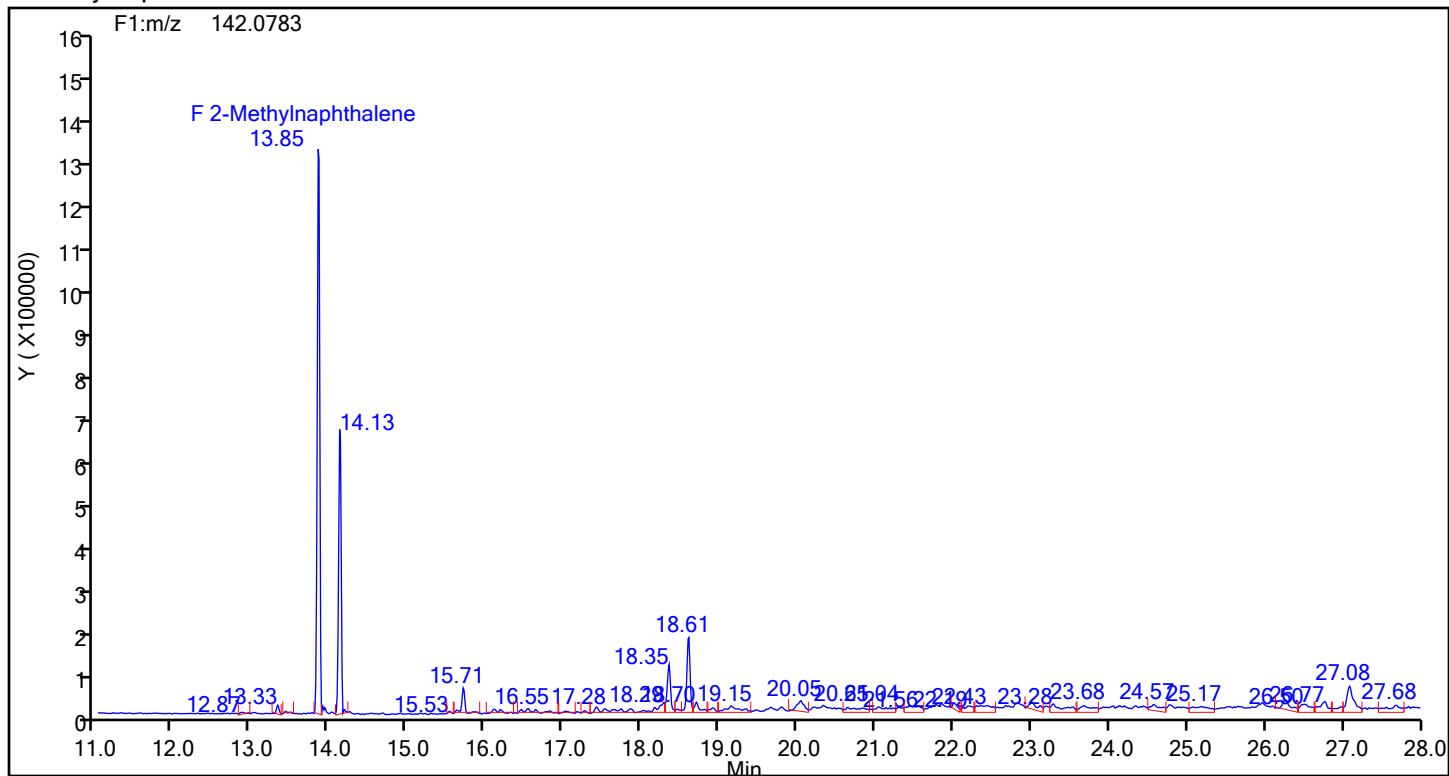
Naphthalene Standards



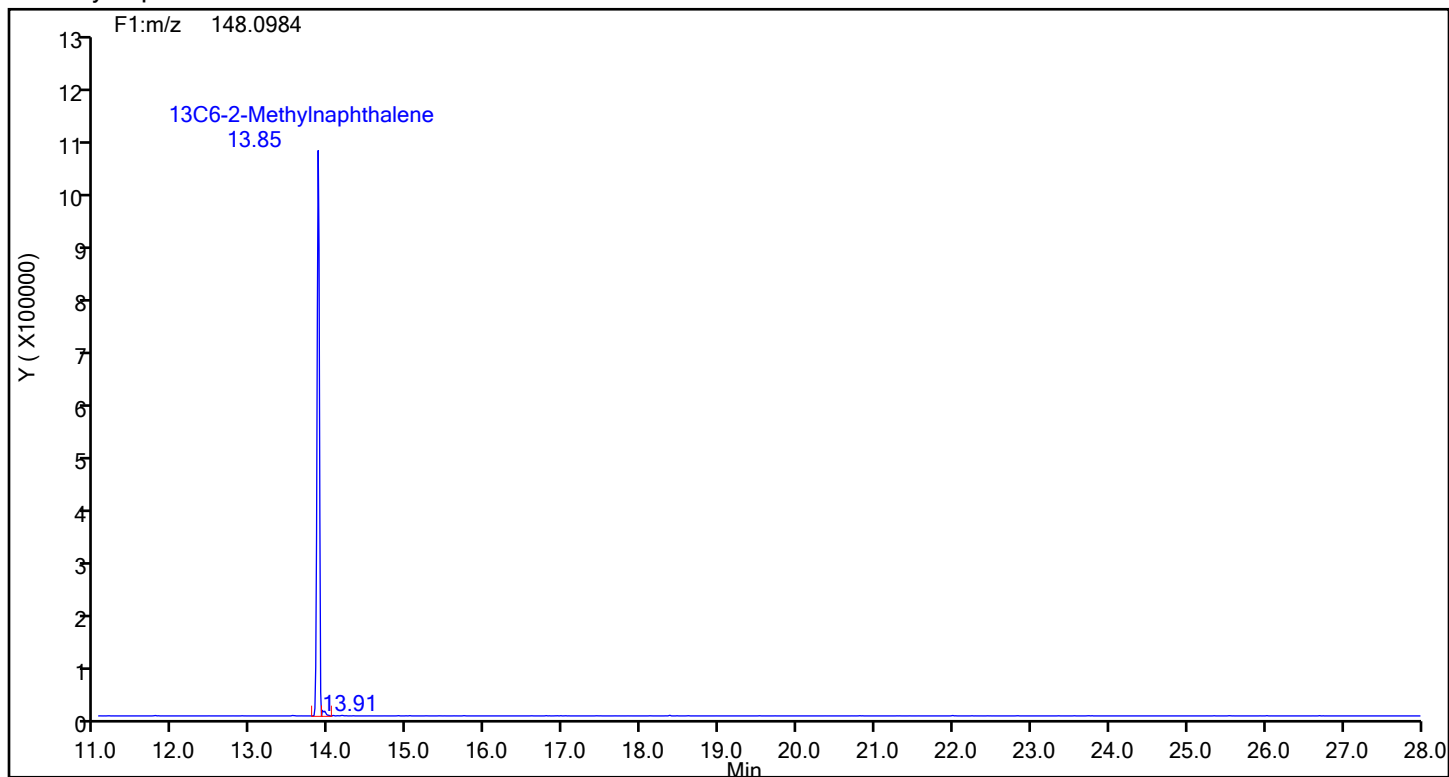
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d
Injection Date: 25-Jun-2024 18:54:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 88079 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



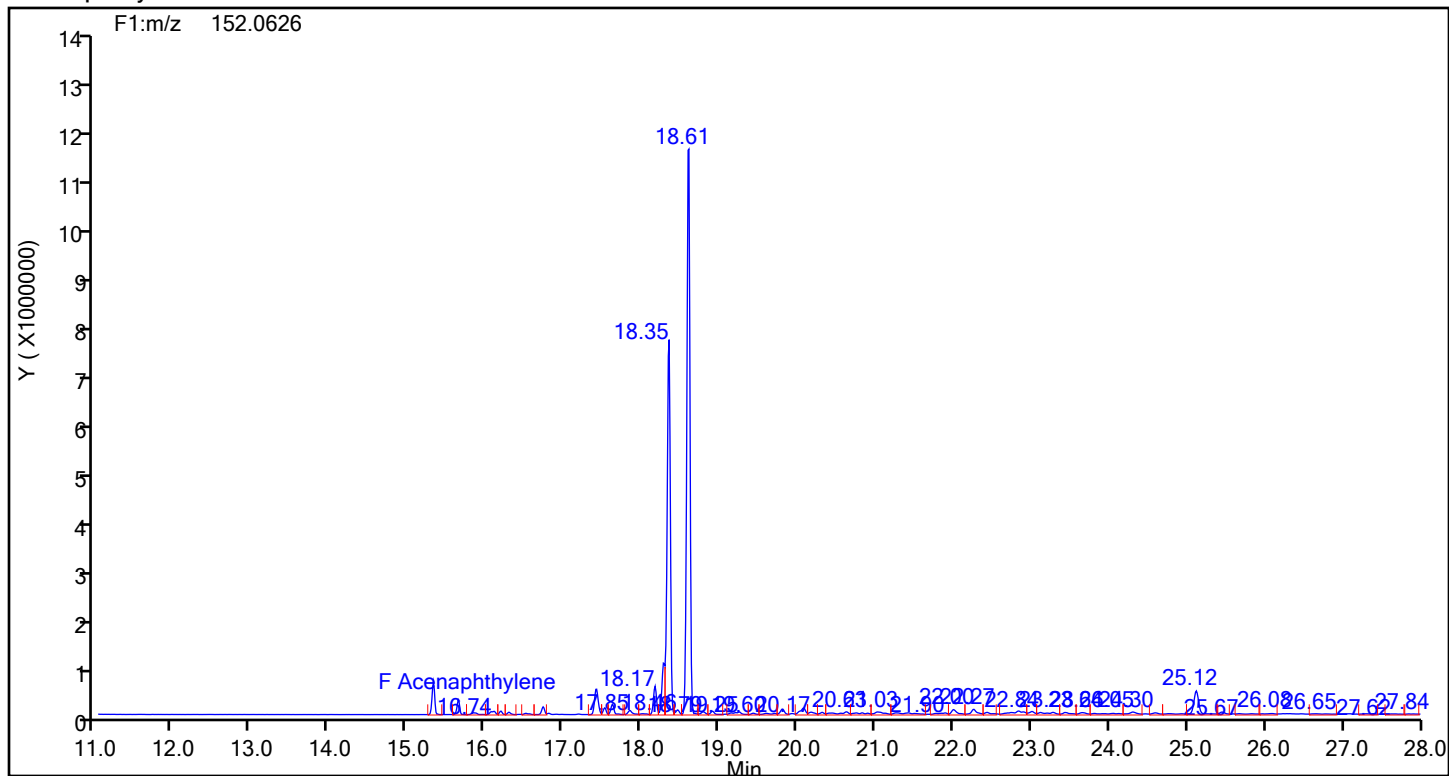
2-Methylnaphthalene Standards



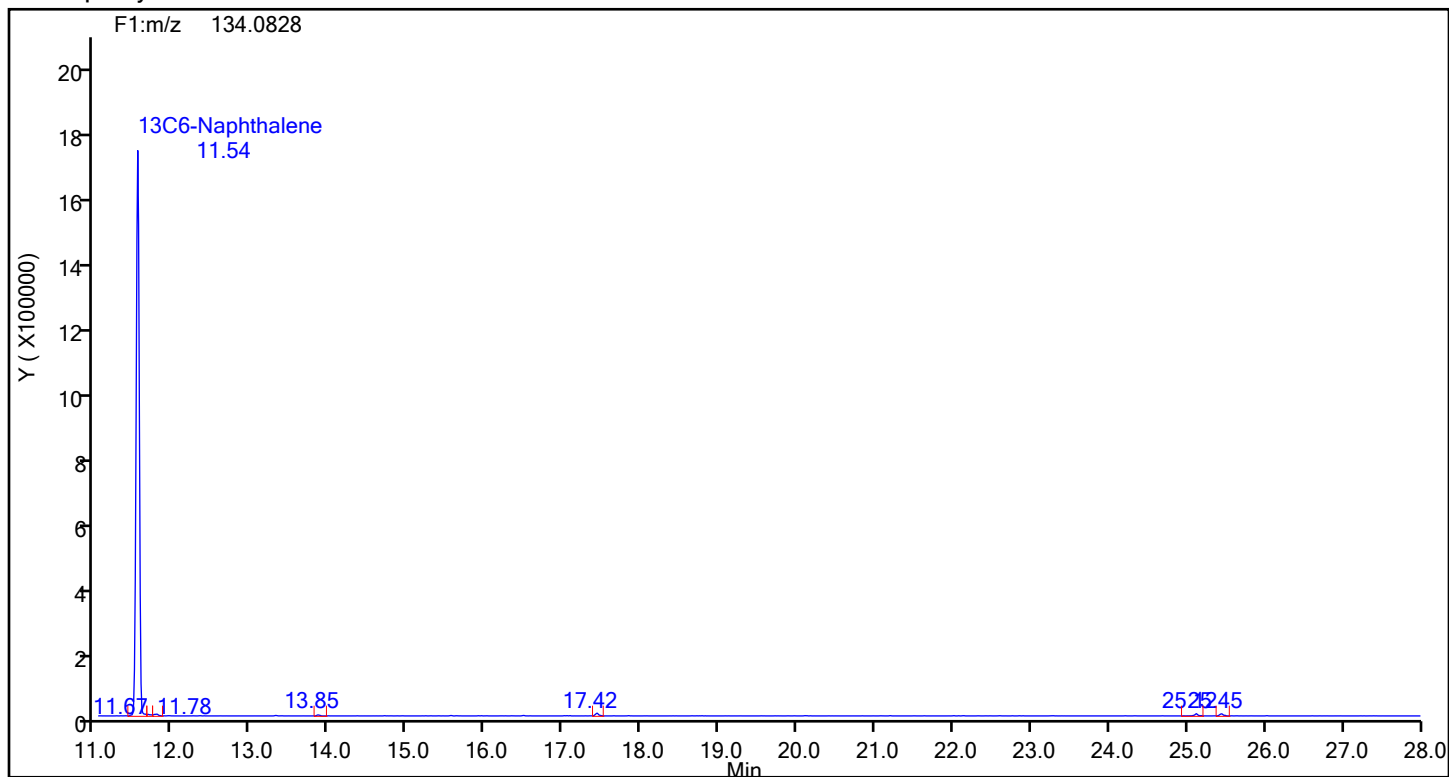
Eurofins Knoxville

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Injection Date: 25-Jun-2024 18:54:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 88079 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d

Injection Date: 25-Jun-2024 18:54:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

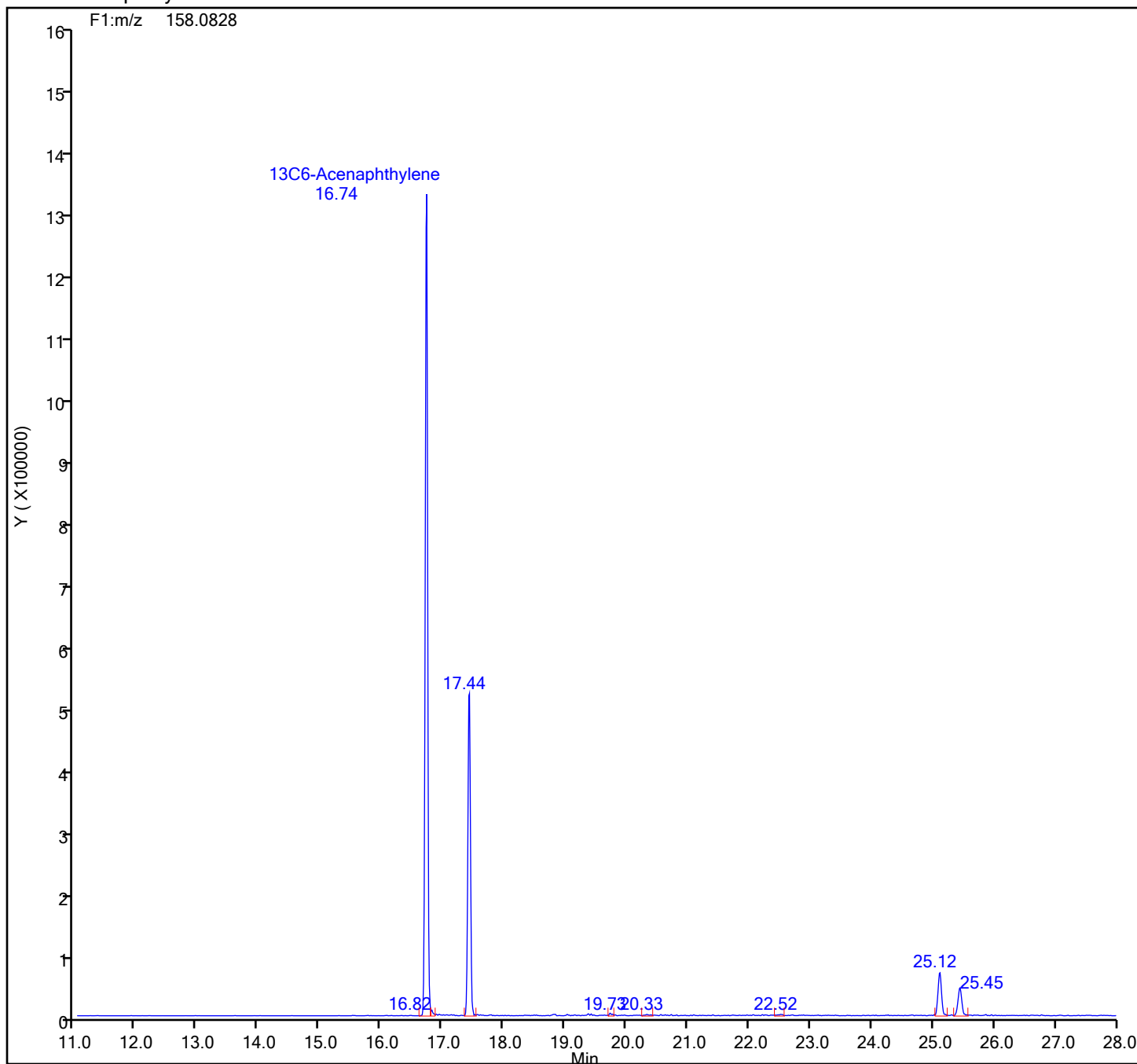
Worklist#: 88079

Sample Line#: 10

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d

Injection Date: 25-Jun-2024 18:54:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

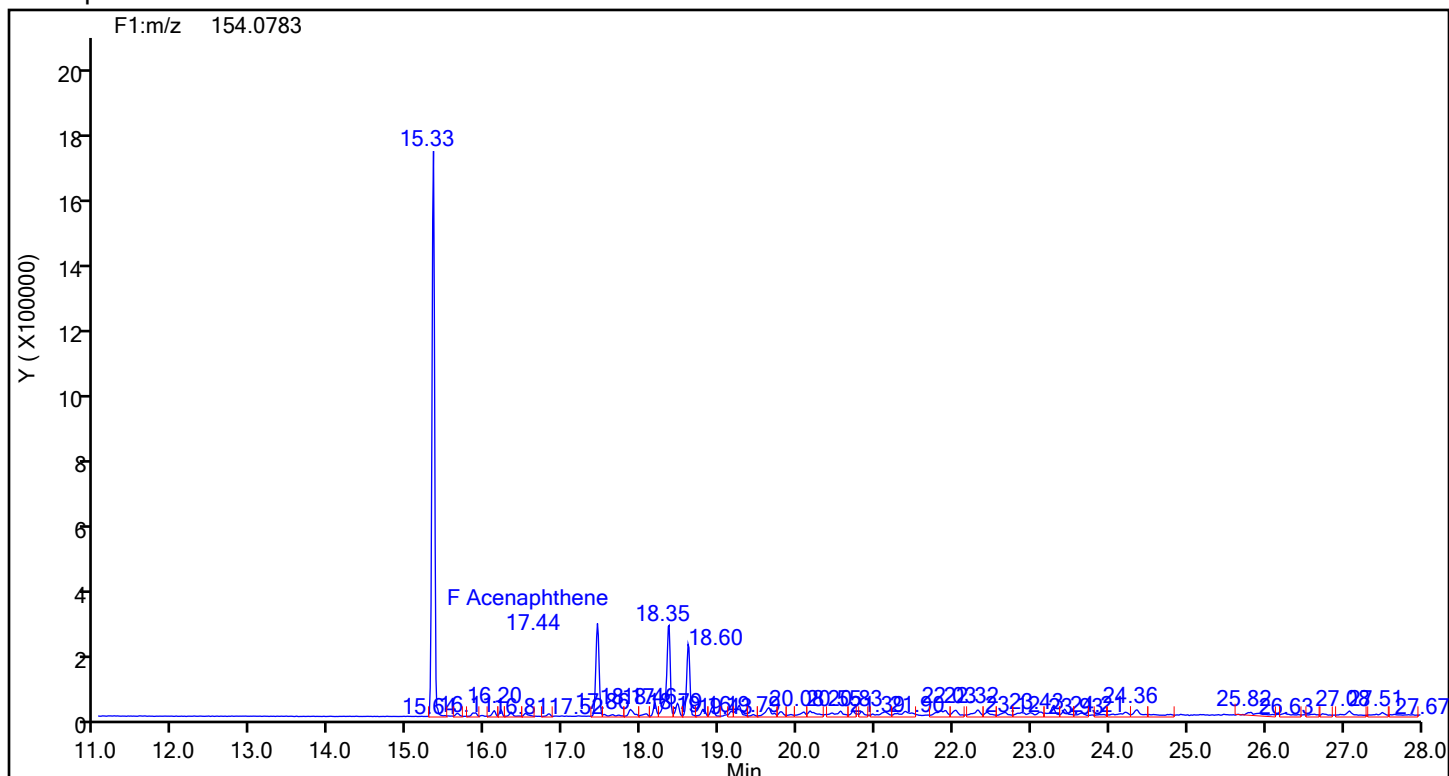
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Sample Line#: 10

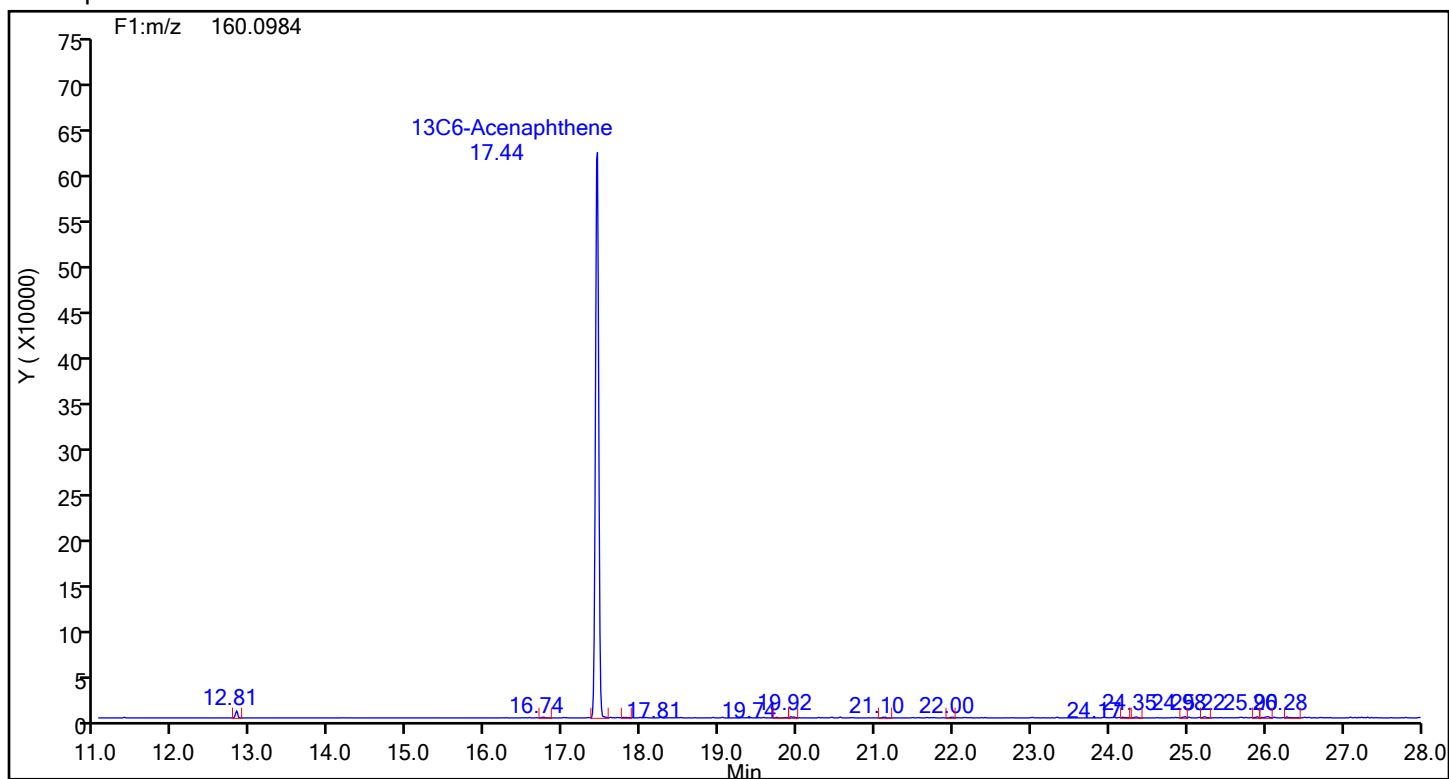
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Acenaphthene



Acenaphthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d

Injection Date: 25-Jun-2024 18:54:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

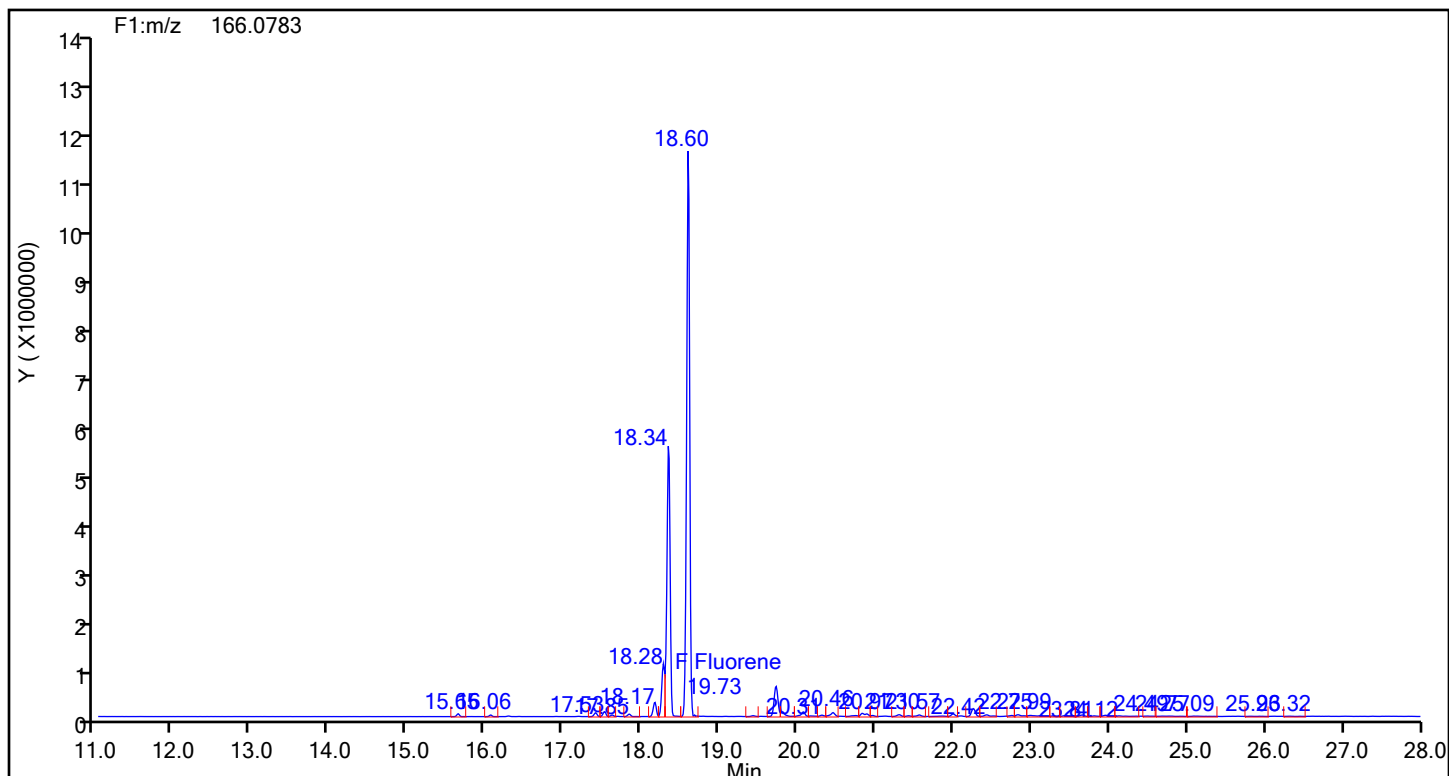
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Sample Line#: 10

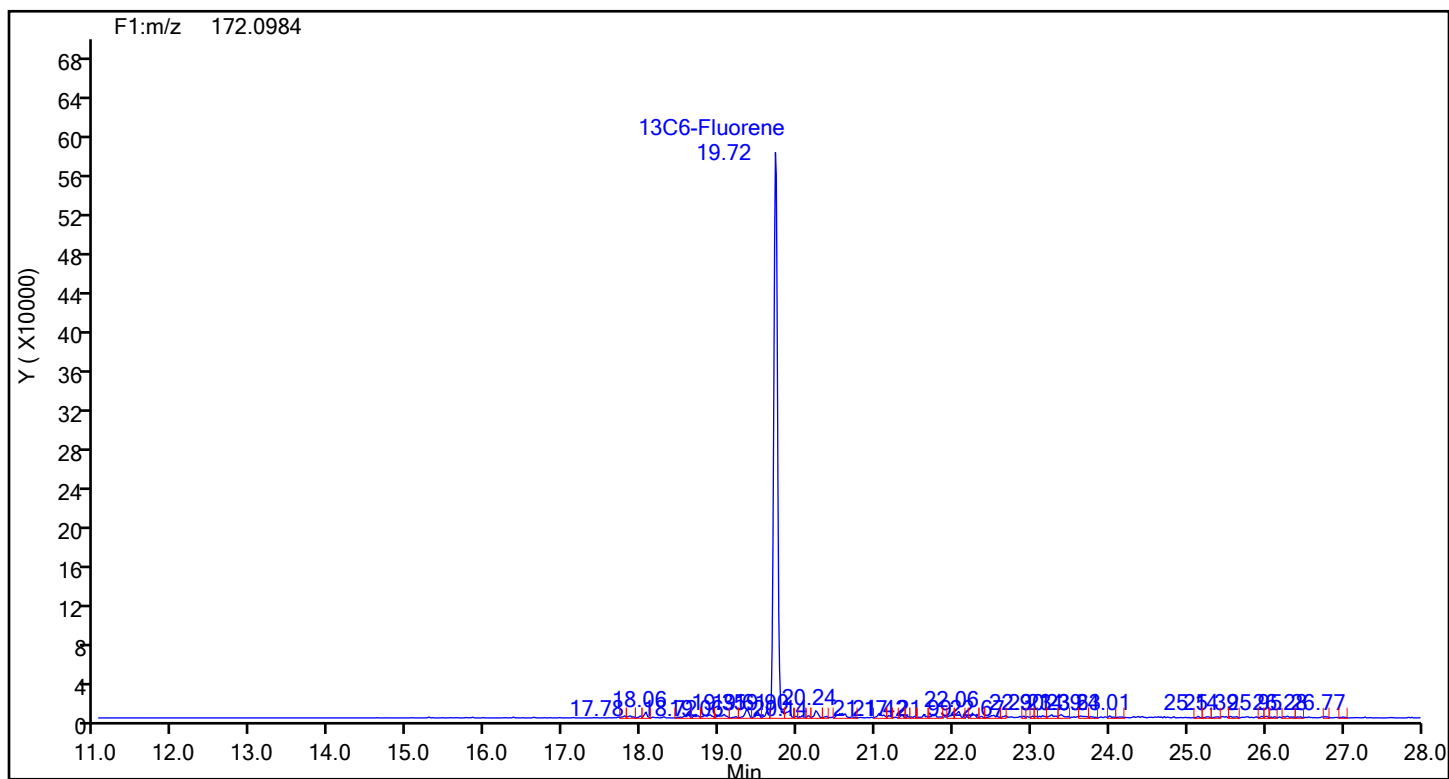
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Fluorene



Fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d

Injection Date: 25-Jun-2024 18:54:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

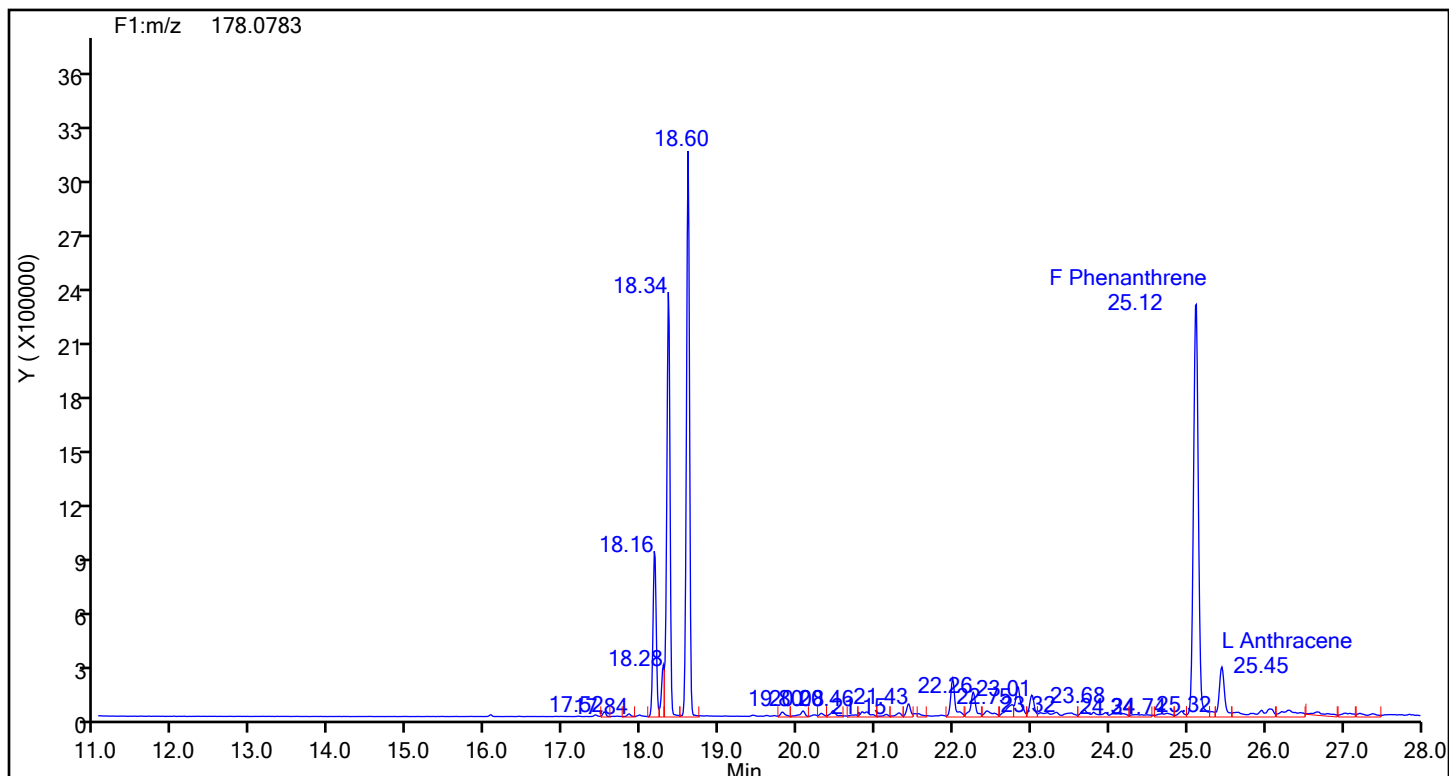
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Sample Line#: 10

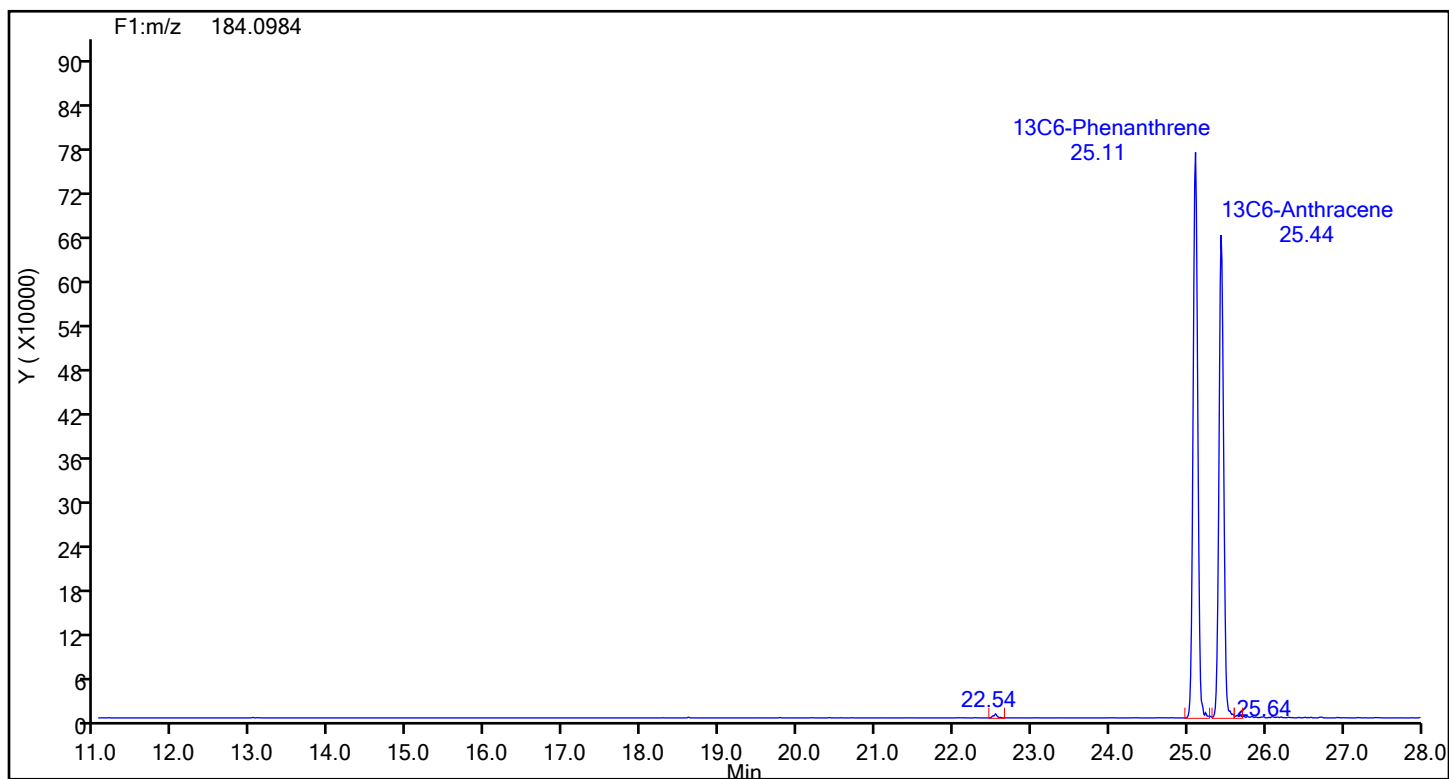
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Phenanthrene

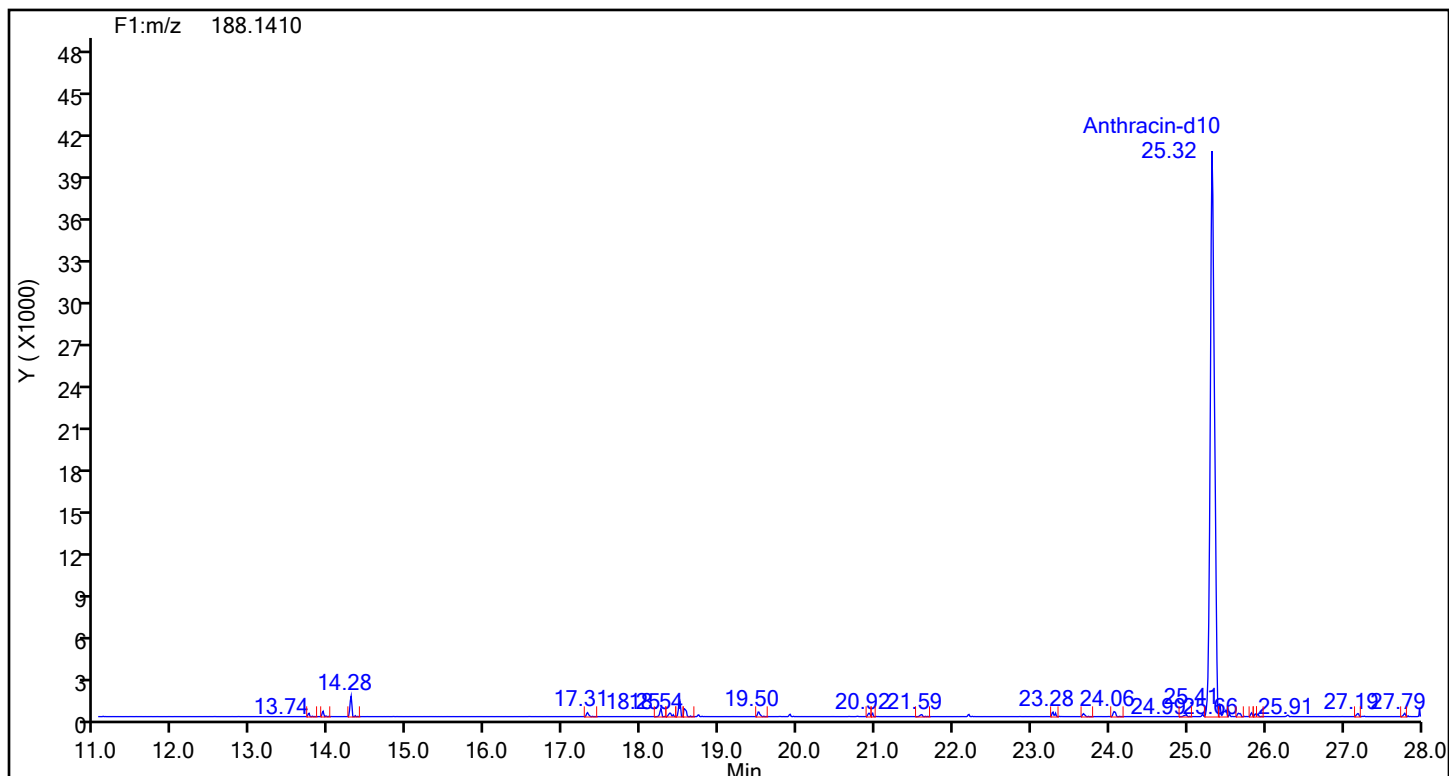


Phenanthrene Standards

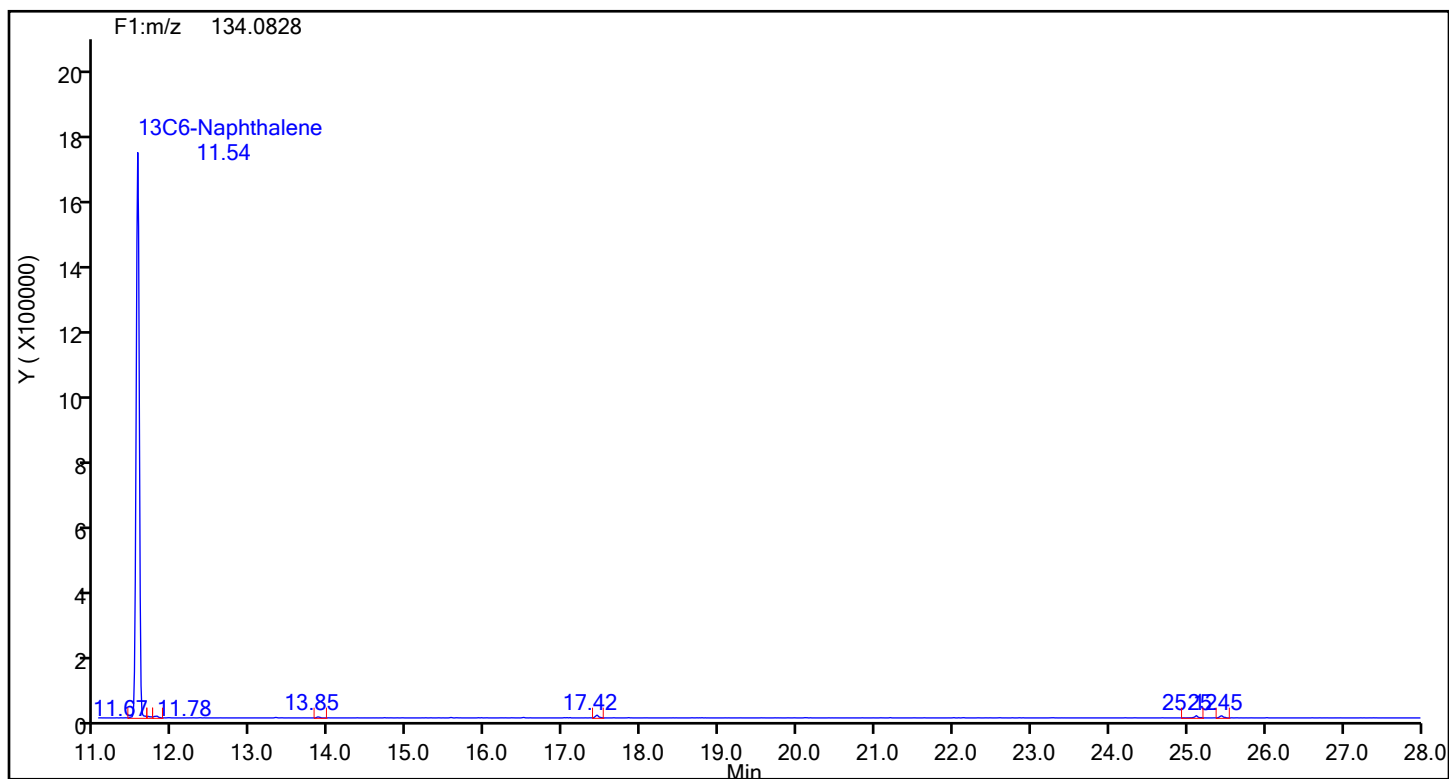


Eurofins Knoxville

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Injection Date: 25-Jun-2024 18:54:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 88079 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



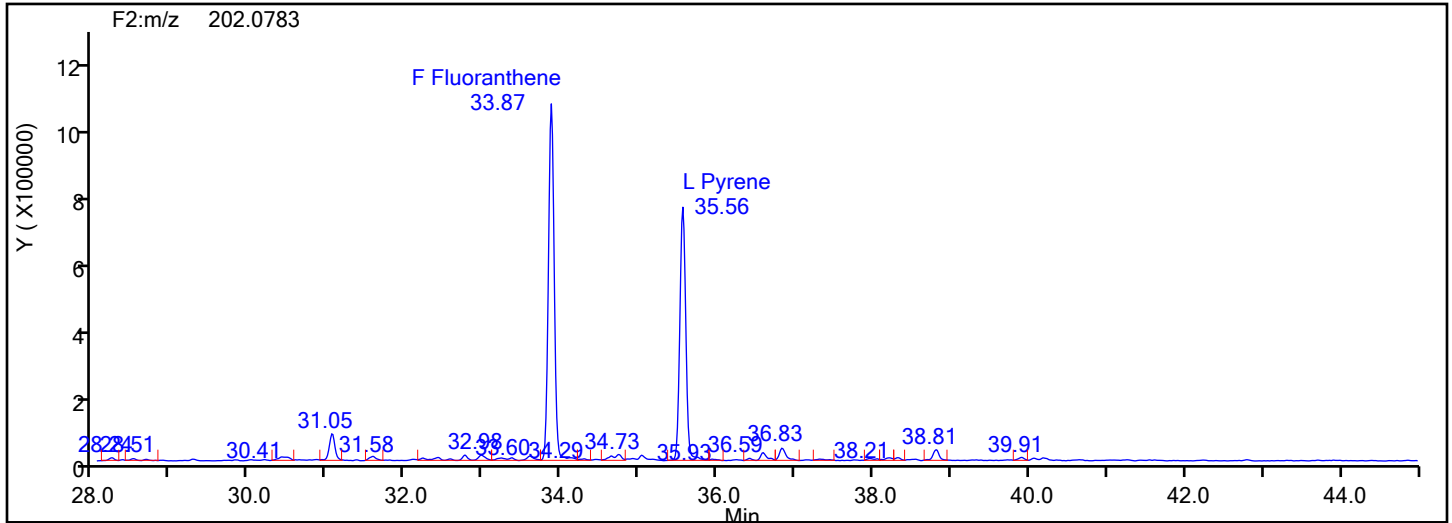
Anthracin-d10 Standards



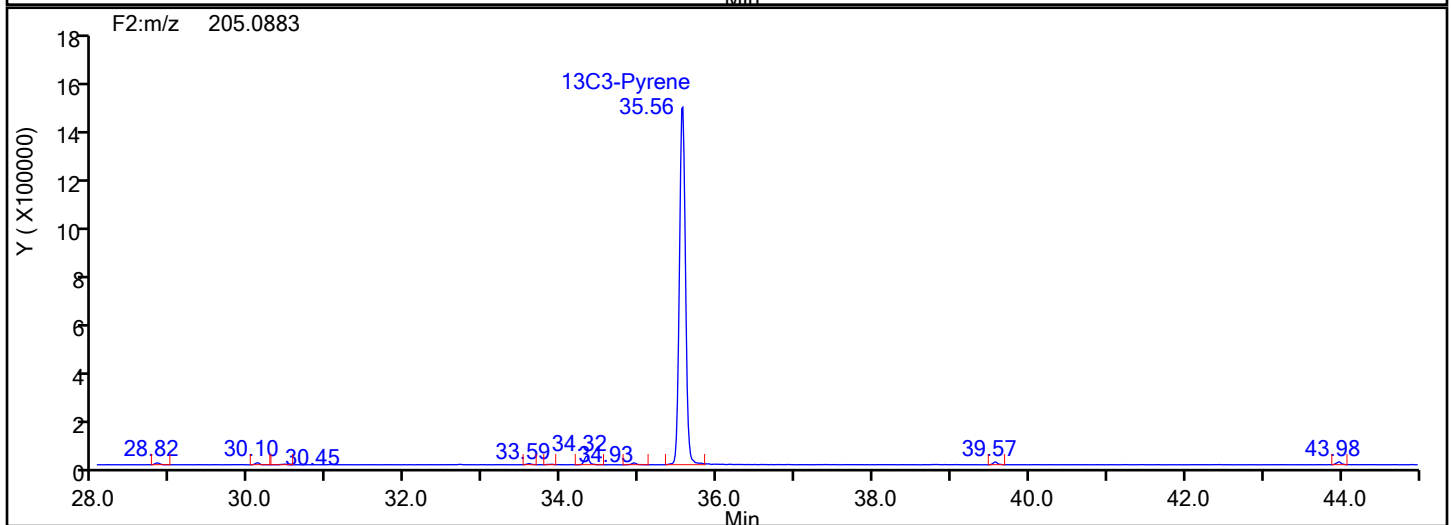
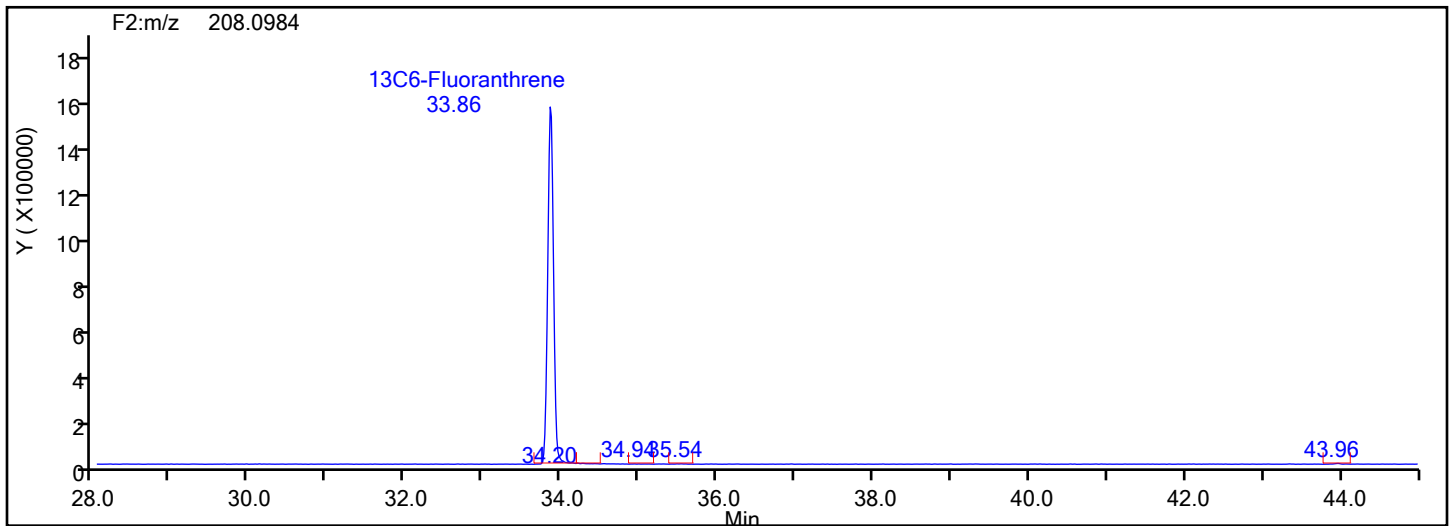
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d
Injection Date: 25-Jun-2024 18:54:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 88079 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluoranthene



Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d

Injection Date: 25-Jun-2024 18:54:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

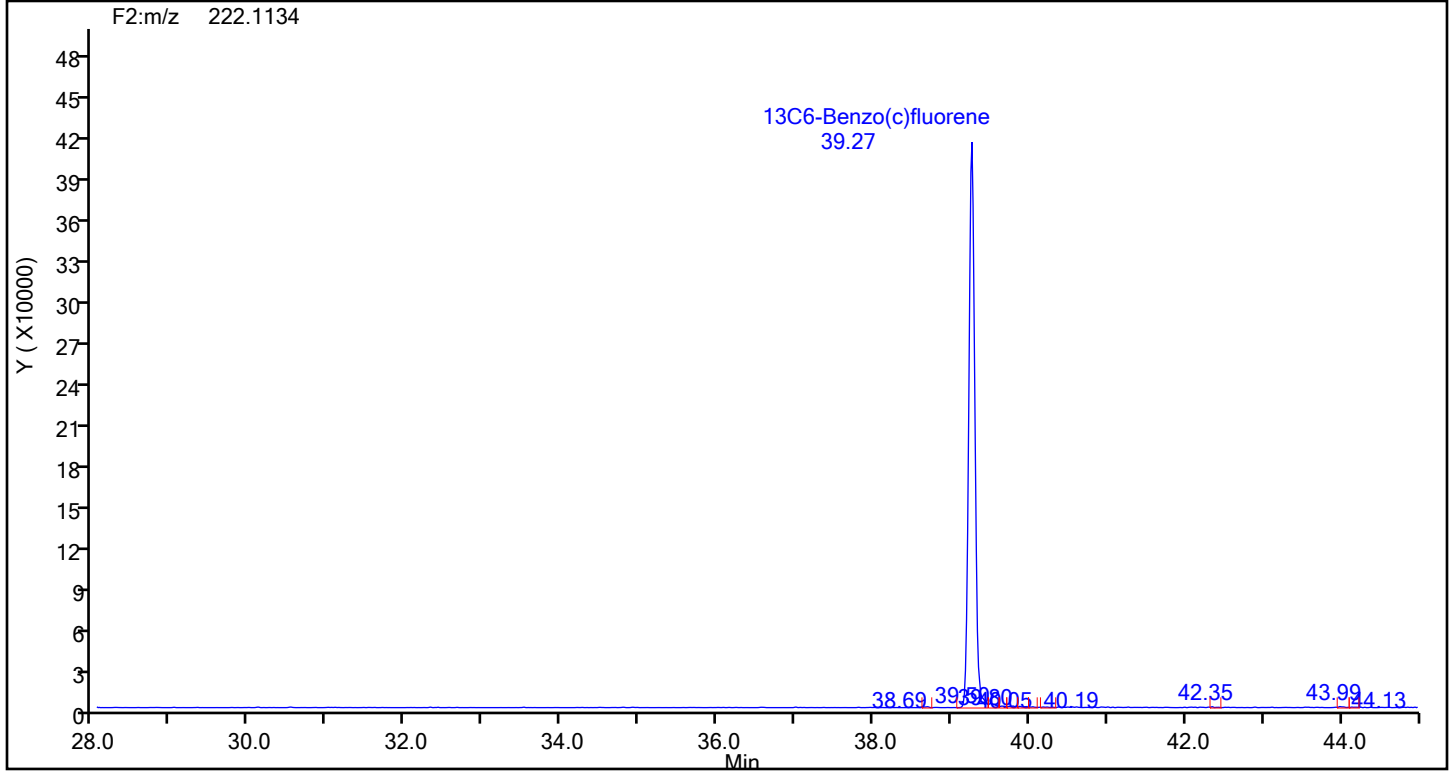
Worklist#: 88079

Sample Line#: 10

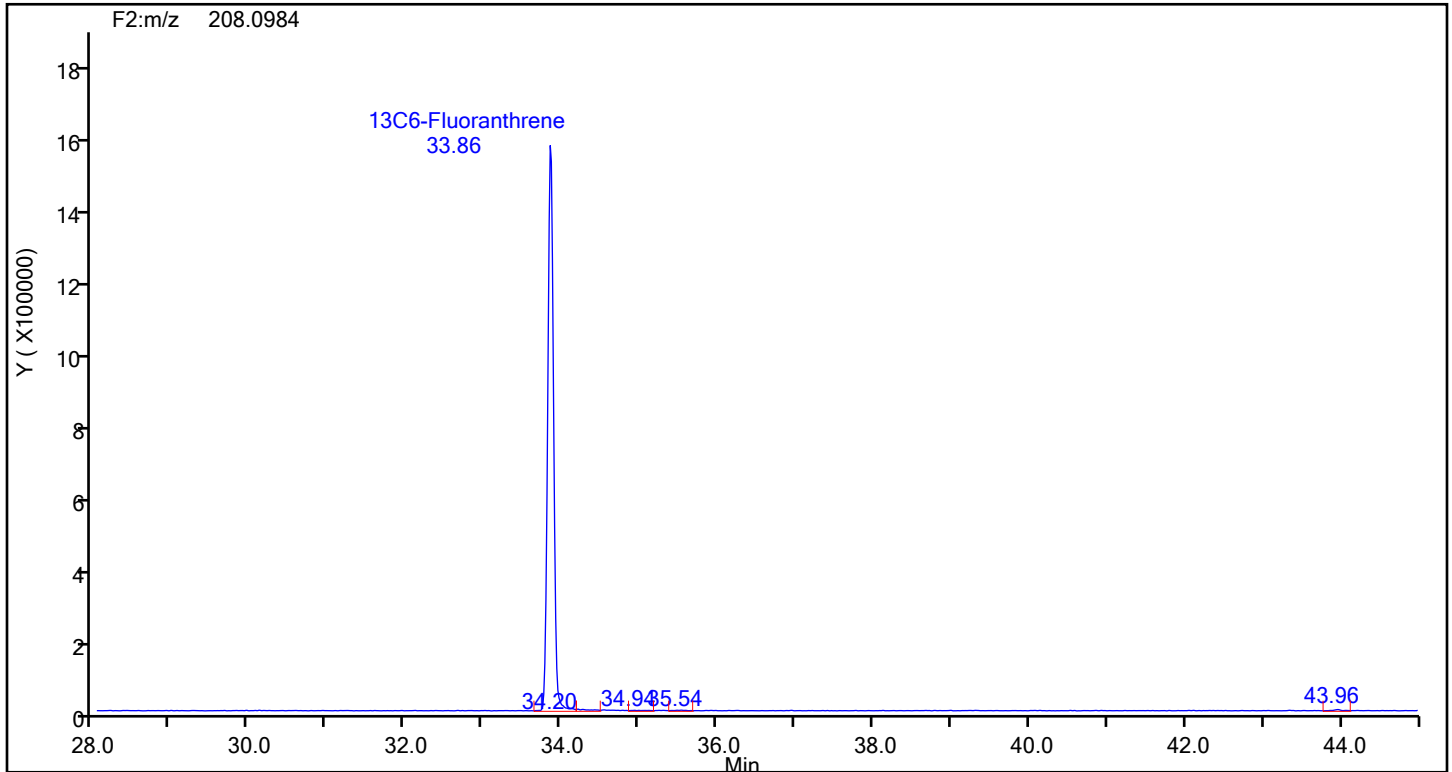
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



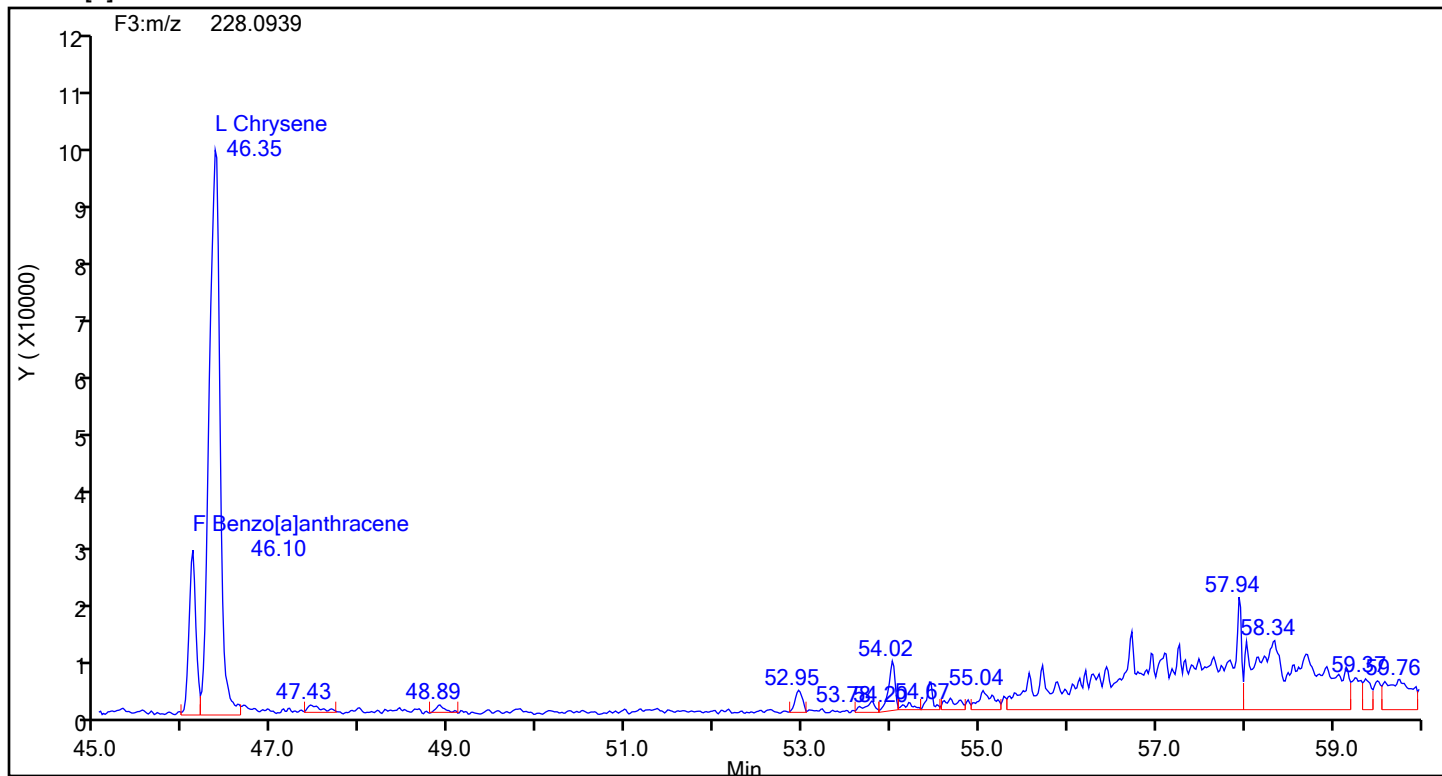
13C6-Benzo(c)fluorene Standards



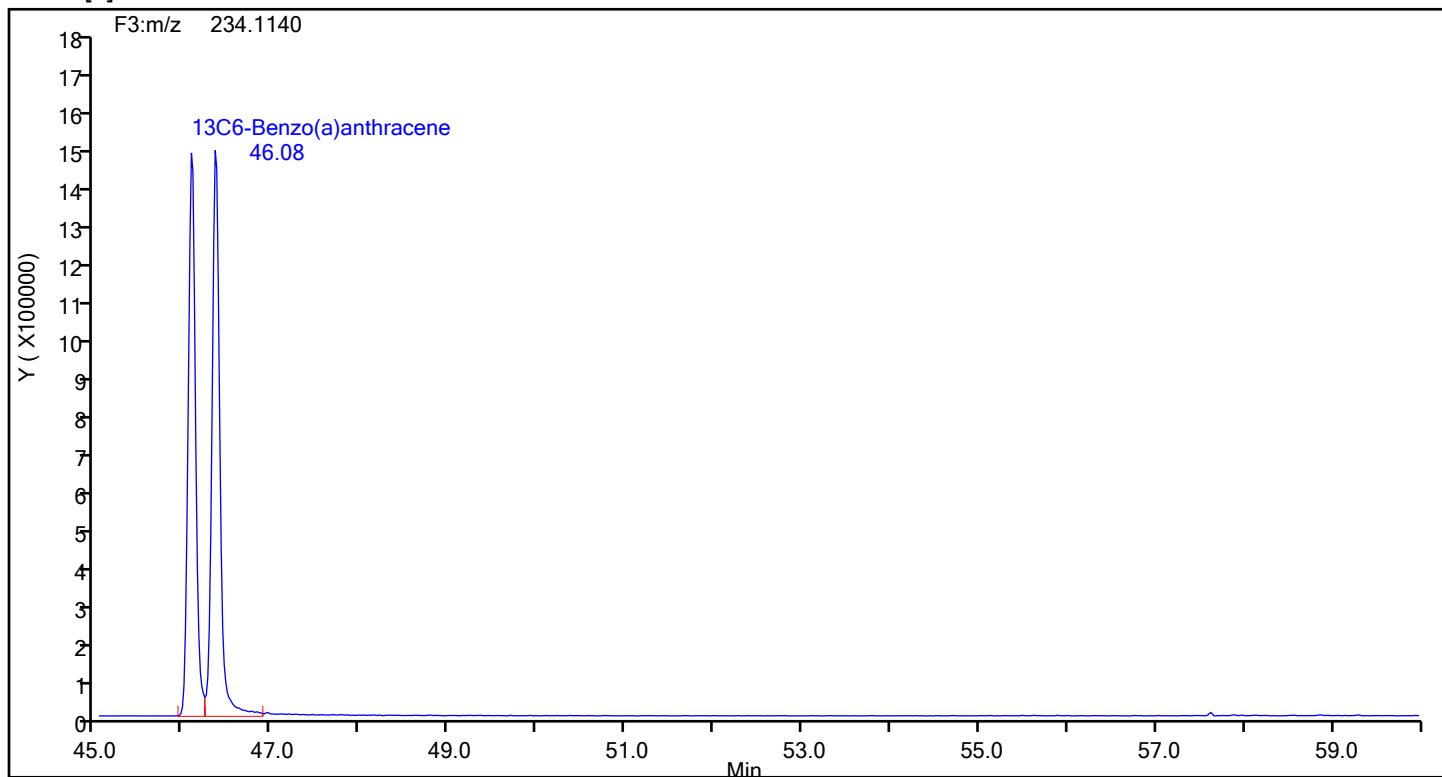
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d
Injection Date: 25-Jun-2024 18:54:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 88079 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



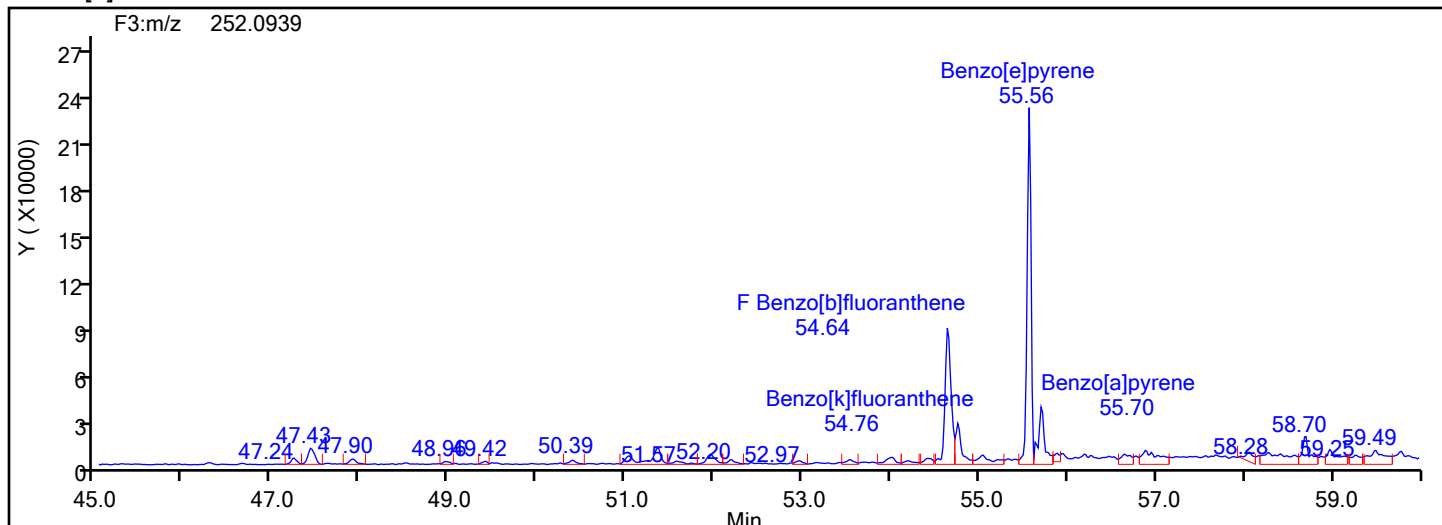
Benzo[a]anthracene Standards



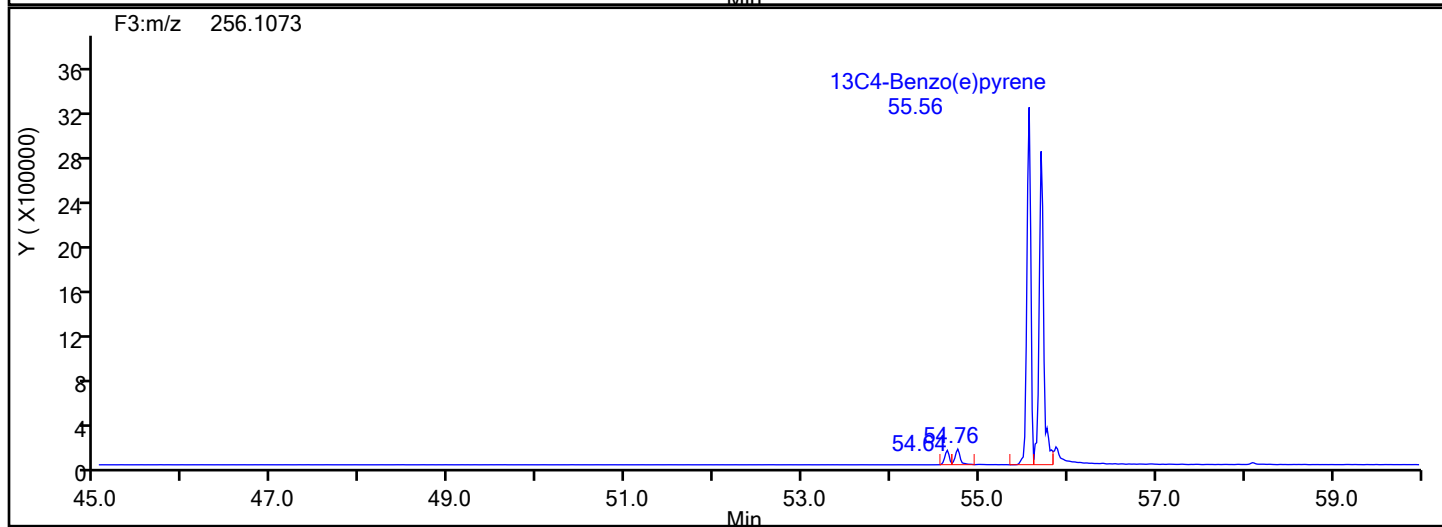
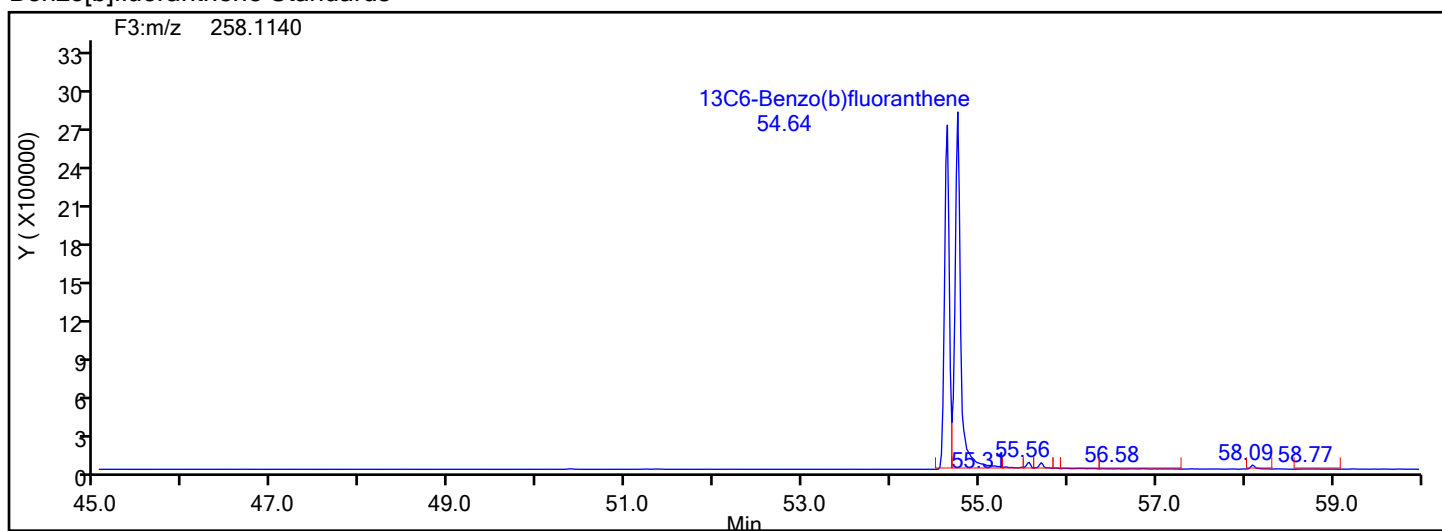
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d
Injection Date: 25-Jun-2024 18:54:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 88079 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

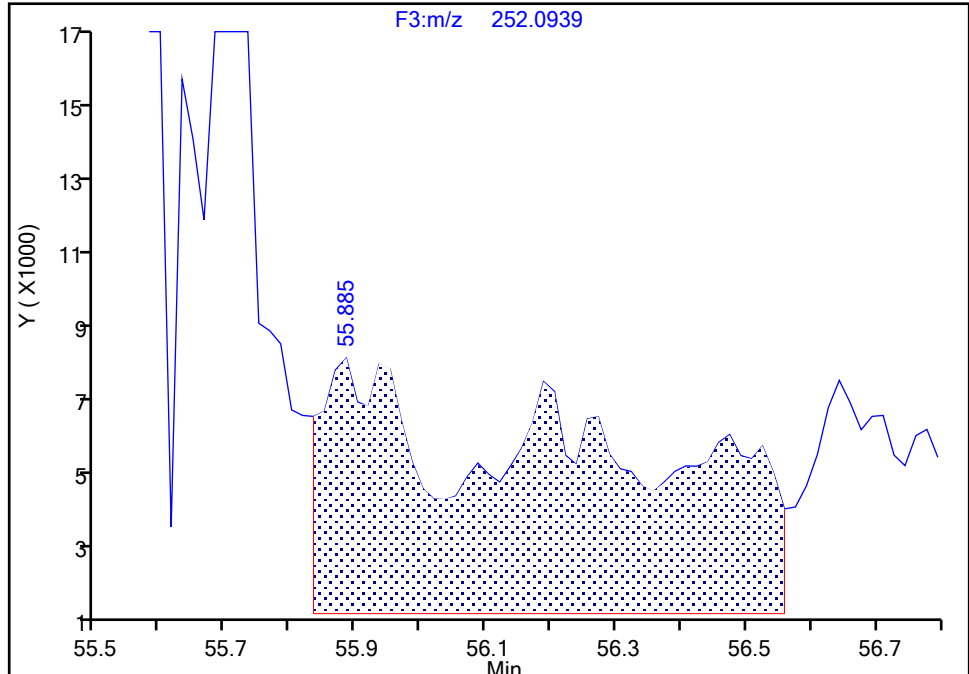
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Injection Date: 25-Jun-2024 18:54:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-5-D Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

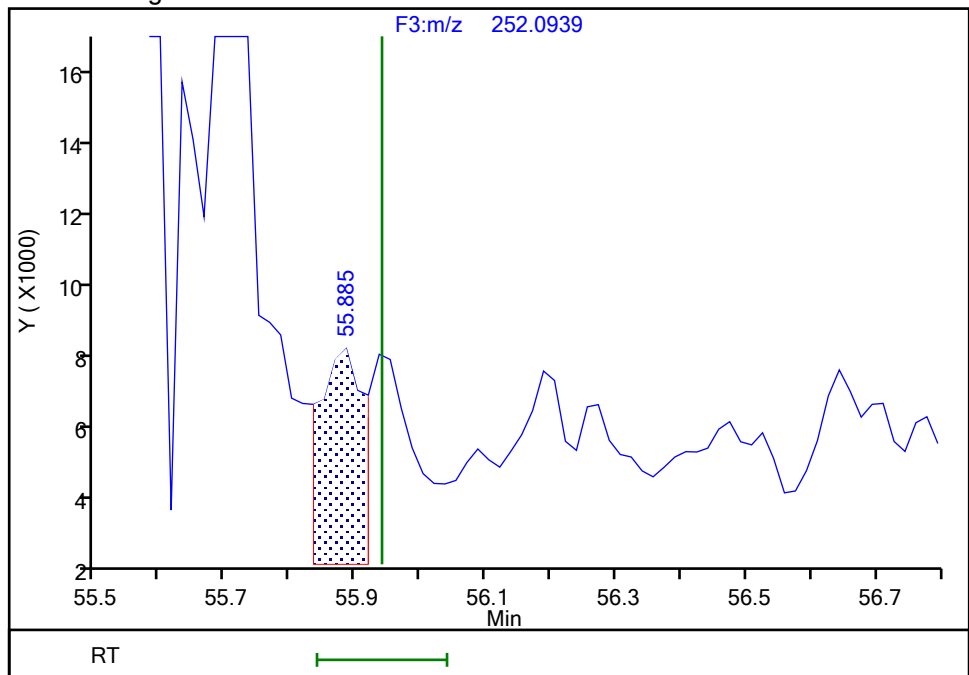
RT: 55.89
Area: 183379
Amount: 1.838515
Amount Units: pg/ul

Processing Integration Results



RT: 55.89
Area: 28757
Amount: 0.288311
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 25-Jun-2024 20:04:08 -04:00:00 (UTC)

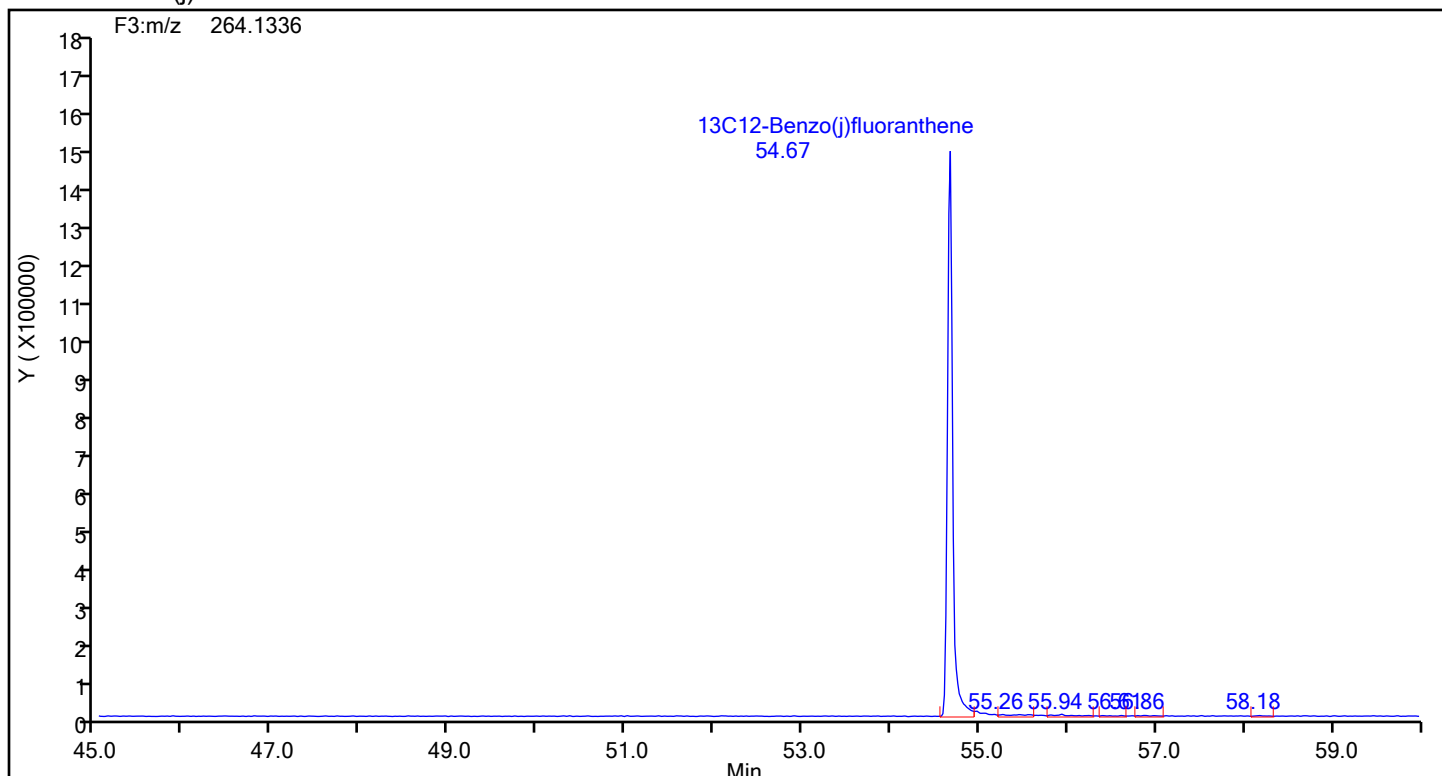
Audit Action: Manually Integrated

Audit Reason: Baseline

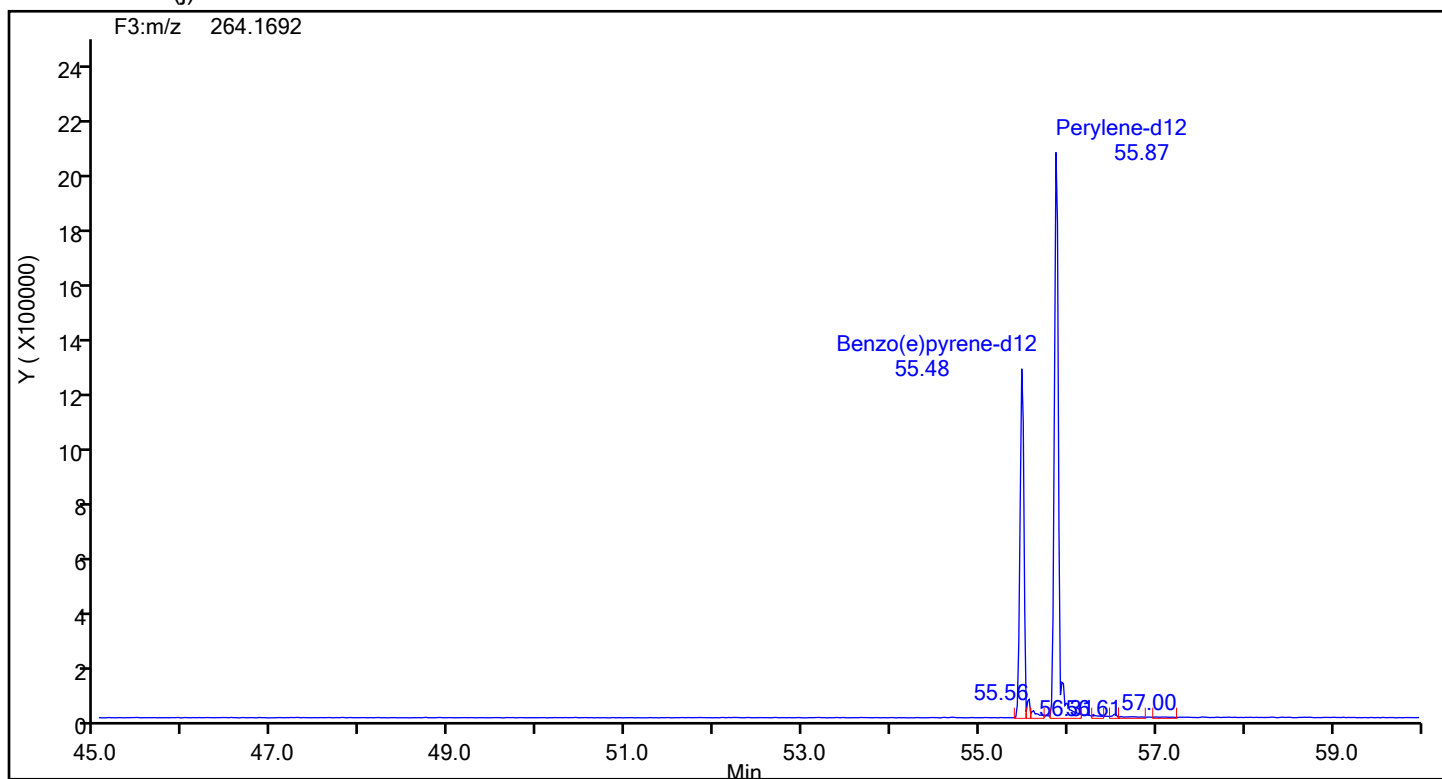
Eurofins Knoxville

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Injection Date: 25-Jun-2024 18:54:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 88079 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d

Injection Date: 25-Jun-2024 18:54:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

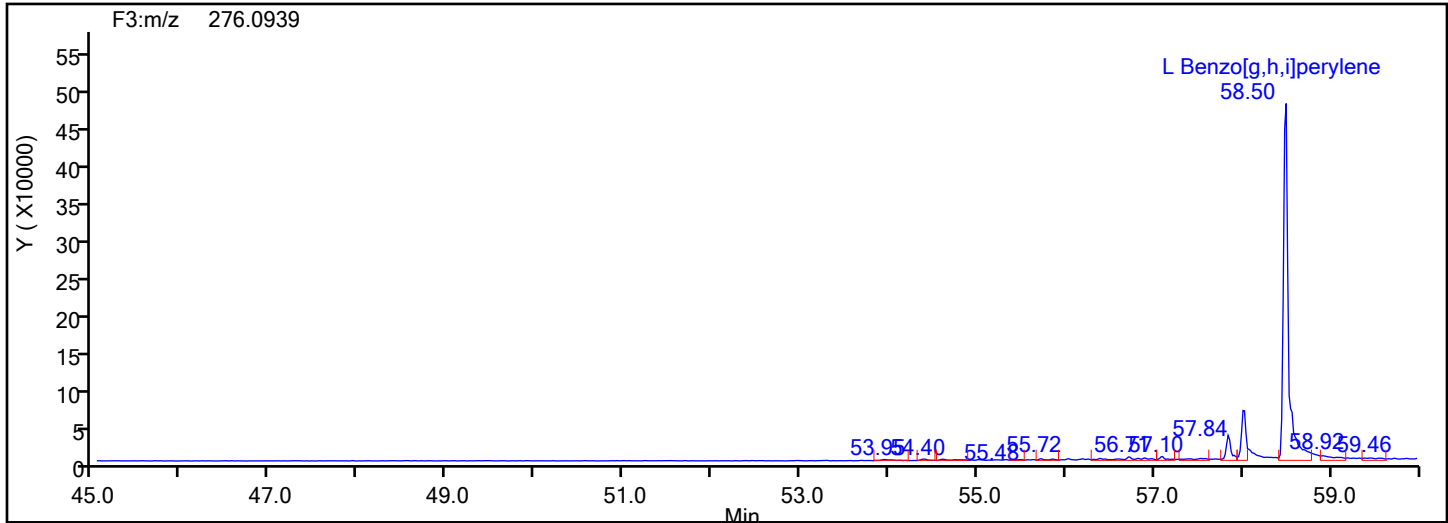
Worklist#: 88079

Sample Line#: 10

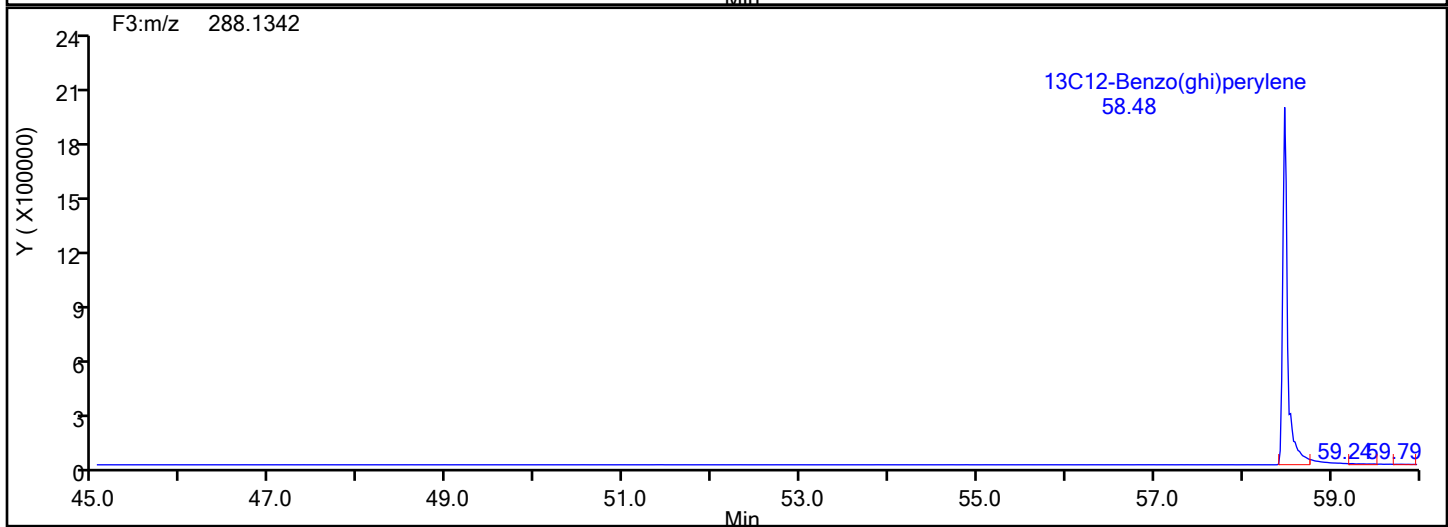
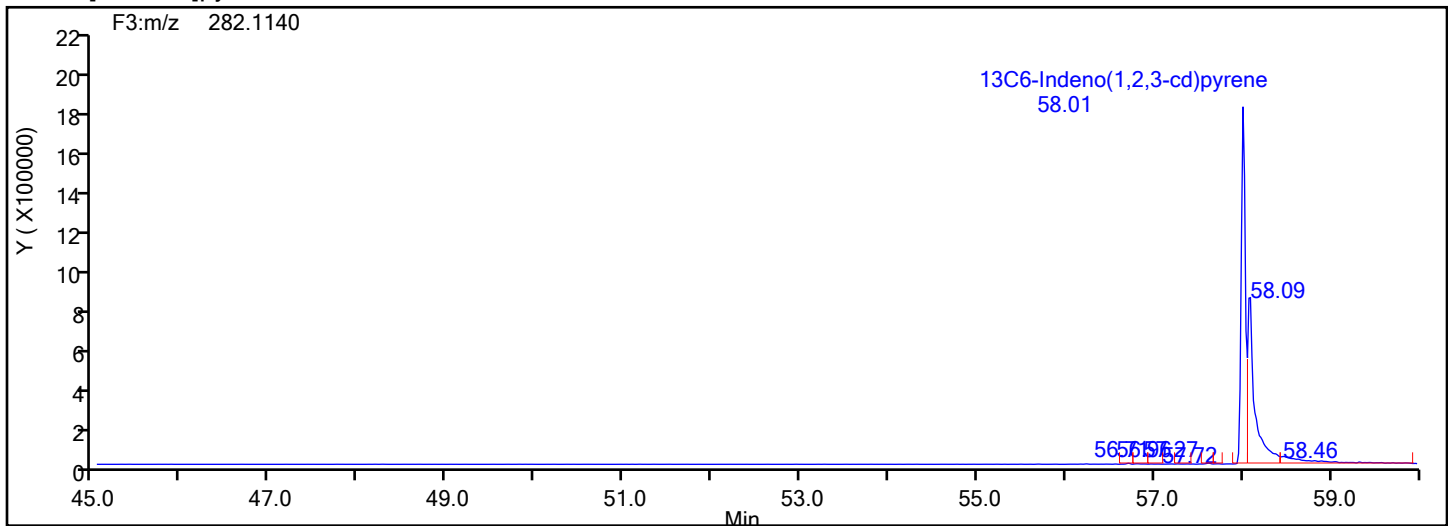
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

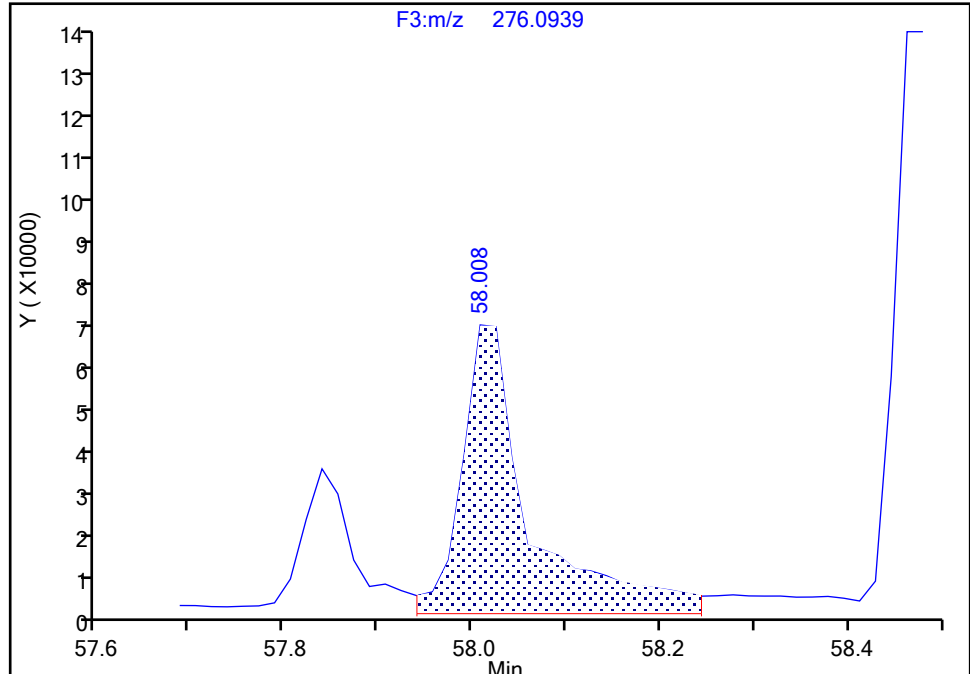
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Injection Date: 25-Jun-2024 18:54:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-5-D Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

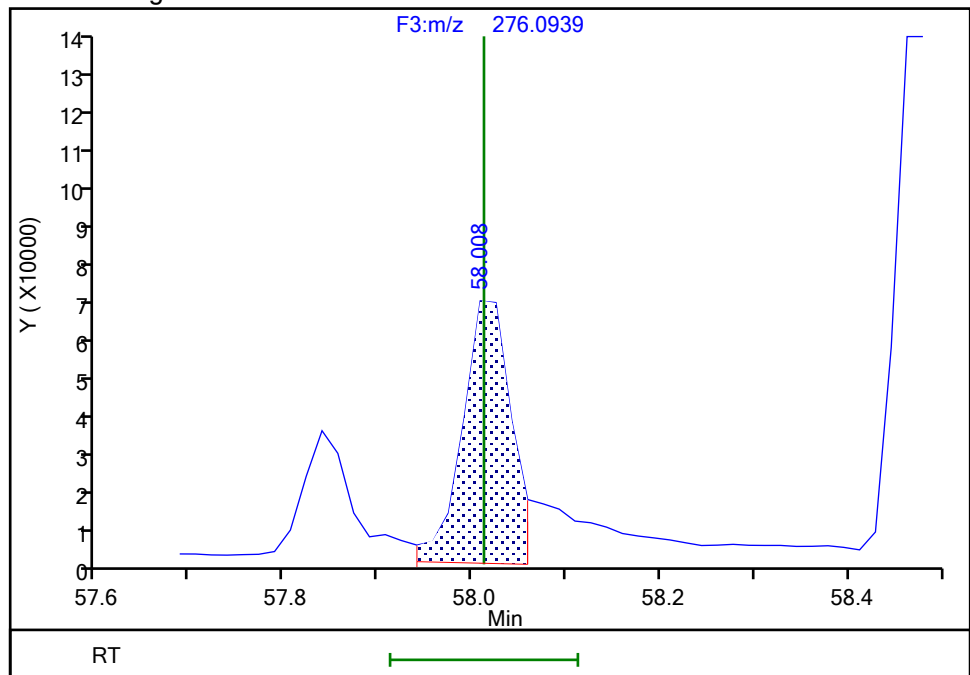
RT: 58.01
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Amount: 5.143155
Amount Units: pg/ul

Processing Integration Results



RT: 58.01
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Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 25-Jun-2024 20:04:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d

Injection Date: 25-Jun-2024 18:54:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

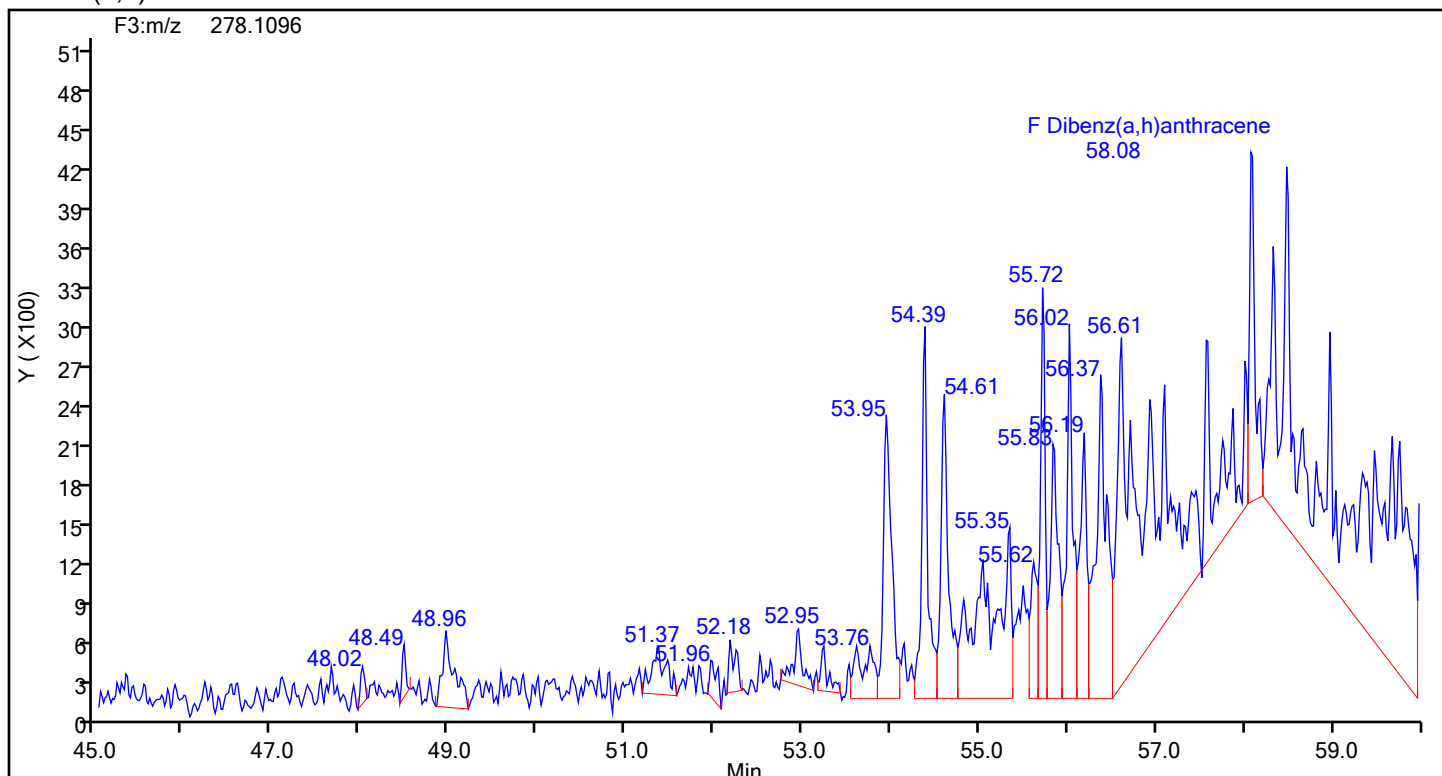
Worklist#: 88079

Sample Line#: 10

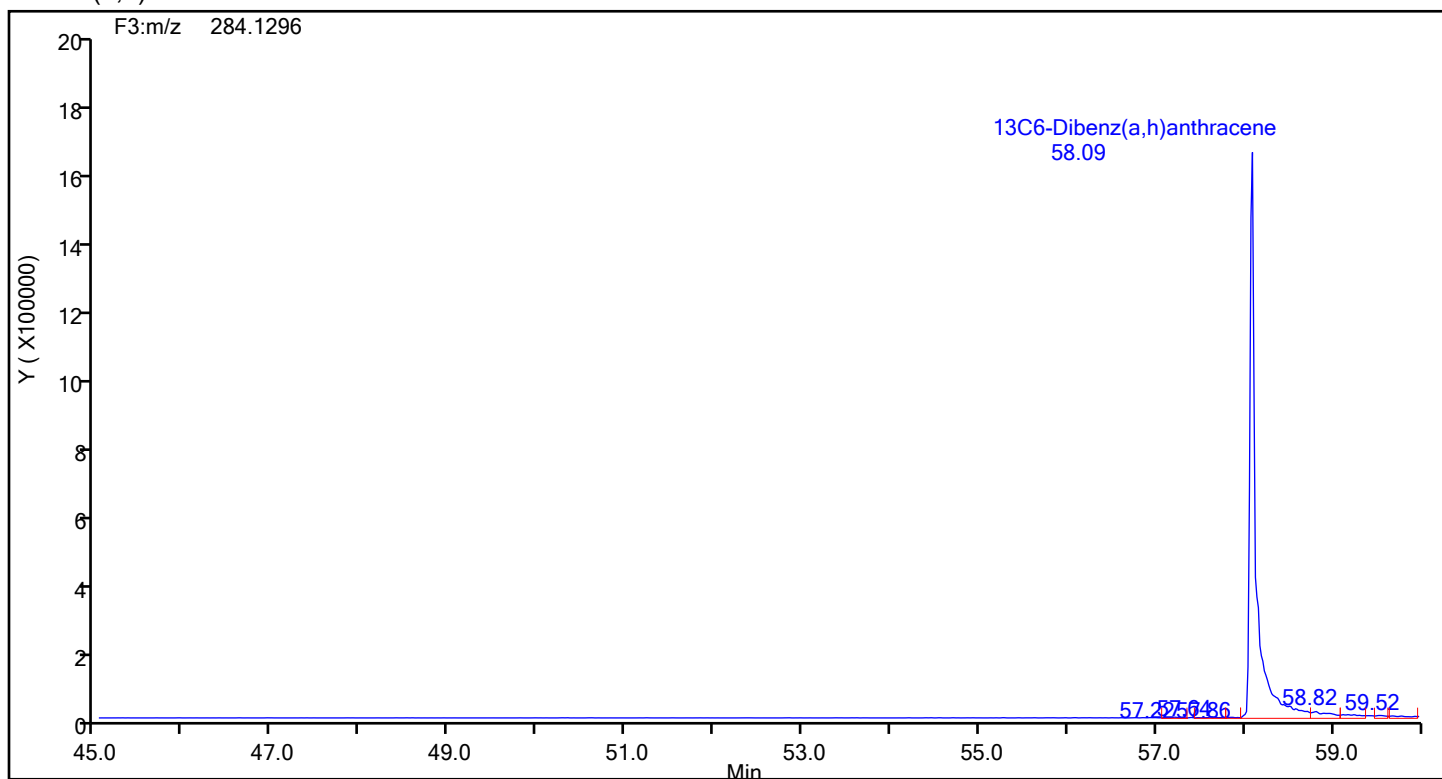
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenzo(a,h)anthracene Standards



Eurofins Knoxville

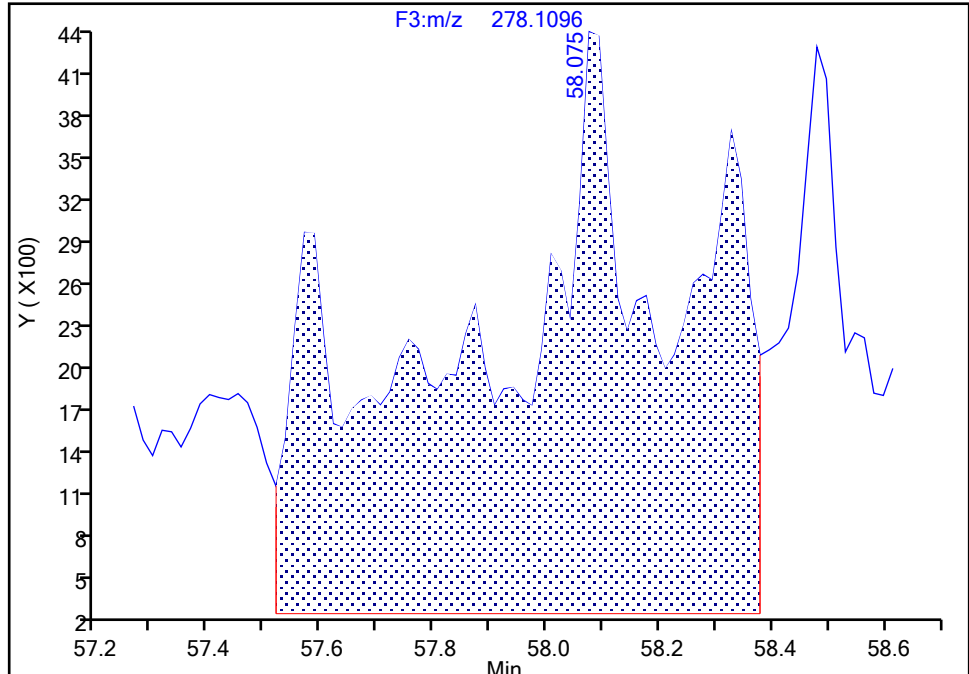
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Injection Date: 25-Jun-2024 18:54:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-5-D Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

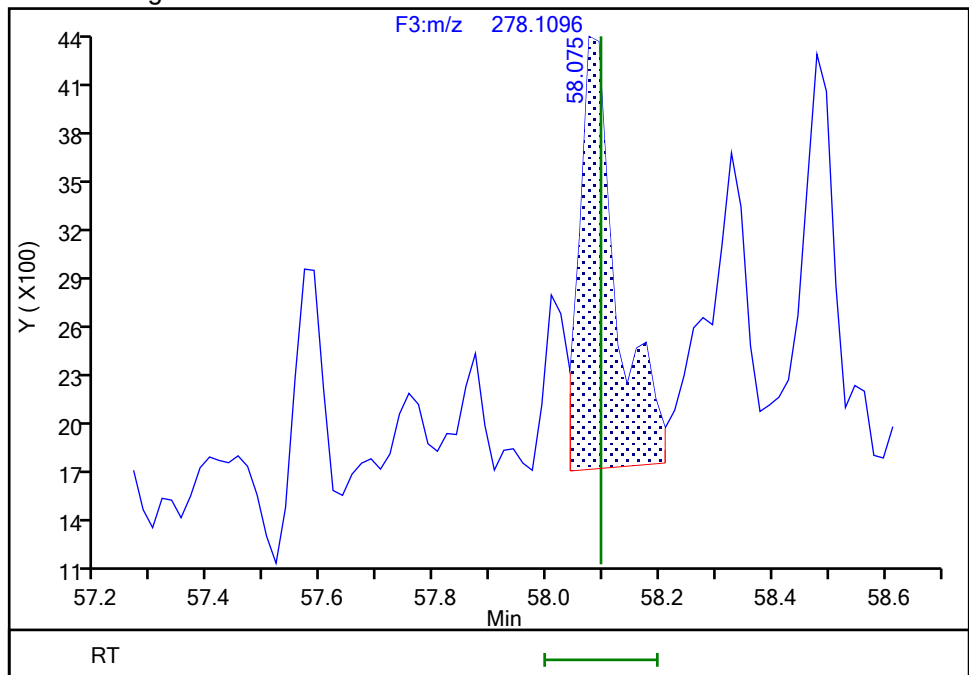
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Amount: 1.203340
Amount Units: pg/ul

Processing Integration Results



RT: 58.08
Area: 12288
Amount: 0.138020
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 25-Jun-2024 20:04:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\140-36689-a-5-da.d
Lims ID: 140-36689-A-5-D
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Sample Type: Client
Inject. Date: 25-Jun-2024 18:54:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033250-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 25-Jun-2024 20:05:06 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1670

First Level Reviewer: Q9DB

Date: 25-Jun-2024 20:07:10

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	4.39	43.90
13C6-Benzo(c)fluorene	66.7	53.0	79.55
13C12-Benzo(j)fluoranthene	66.7	58.0	87.02

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 6 COMBINED</u>	Lab Sample ID: <u>140-36689-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-6-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/09/2024 19:15</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/25/2024 02:53</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88048</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	429	B	75.0	75.0	1.18
91-57-6	2-Methylnaphthalene	399	B	75.0	75.0	0.132
208-96-8	Acenaphthylene	16.9	B	3.00	3.00	0.305
83-32-9	Acenaphthene	65.7	B	30.0	30.0	0.178
86-73-7	Fluorene	172	B	30.0	30.0	0.538
85-01-8	Phenanthrene	683	B	6.00	6.00	0.543
120-12-7	Anthracene	75.3	B	30.0	30.0	0.537
206-44-0	Fluoranthene	92.5	B	6.00	6.00	0.139
129-00-0	Pyrene	111	B	6.00	6.00	0.166
56-55-3	Benzo[a]anthracene	3.02	J B	6.00	6.00	0.0521
218-01-9	Chrysene	9.86	B	6.00	6.00	0.0485
205-99-2	Benzo[b]fluoranthene	8.79	J B	30.0	30.0	0.0338
207-08-9	Benzo[k]fluoranthene	2.25	J B	6.00	6.00	0.0335
192-97-2	Benzo[e]pyrene	32.7	B	6.00	6.00	0.0318
50-32-8	Benzo[a]pyrene	5.61	B	3.00	3.00	0.0358
198-55-0	Perylene	1.78	J B	3.00	3.00	0.0357
193-39-5	Indeno[1,2,3-cd]pyrene	14.1	B	3.00	3.00	0.0256
53-70-3	Dibenz(a,h)anthracene	ND		6.00	6.00	0.00944
191-24-2	Benzo[g,h,i]perylene	58.6	B	6.00	6.00	0.0198

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 6</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-6-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/09/2024 19:15</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/25/2024 02:53</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88048</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	46		20-130
STL03357	13C6-2-Methylnaphthalene	58		20-130
189811-56-1	13C6-Acenaphthylene	77		20-130
189811-57-2	13C6-Acenaphthene	74		20-130
STL00616	13C6-Fluorene	90		20-130
1397194-60-3	13C6-Fluoranthrene	78		20-130
1397214-90-2	13C3-Pyrene	66		20-130
917378-11-1	13C6-Benzo (a) anthracene	58		20-130
1397177-72-8	13C6-Chrysene	62		20-130
STL03358	13C6-Benzo (b) fluoranthene	81		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	82		20-130
STL03382	13C4-Benzo (e) pyrene	68		20-130
STL03359	13C4-Benzo (a) pyrene	71		20-130
1520-96-3	Perylene-d12	64		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	75		20-130
STL03360	13C6-Dibenz (a,h) anthracene	80		20-130
350820-11-0	13C12-Benzo (ghi) perylene	74		20-130
189811-60-7	13C6-Anthracene	101		20-130
1189955-53-0	13C6-Phenanthrene	94		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Lims ID: 140-36689-A-6-D
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Sample Type: Client
Inject. Date: 25-Jun-2024 02:53:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033236-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 25-Jun-2024 11:33:39 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: F9EE

Date: 25-Jun-2024 11:30:53

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	6063312		3.3746	46.2	46.2	0.0106	0.0106	46.16	
Naphthalene	11:33	22356860		1.2893	286.0	286.0	0.7887	0.7887		
D 13C6-2-Methylnaphthalene	13:51	3636264		1.6031	58.3	58.3	0.006767	0.006767	58.27	
2-Methylnaphthalene	13:51	12352971		1.2786	265.7	265.7	0.0878	0.0878		
D 13C6-Acenaphthylene	16:43	4933249		1.6520	76.7	76.7	0.0100	0.0100	76.71	
Acenaphthylene	16:44	749649		2.3661	11.3	11.3	0.2032	0.2032		
* Acenaphthene-d10	17:18	1946370		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:25	2810160		0.9792	73.7	73.7	0.0183	0.0183	73.73	
Acenaphthene	17:25	1562075		1.2697	43.8	43.8	0.1184	0.1184		
Fluorene	19:43	4499066		1.2532	114.8	114.8	0.3585	0.3585		
D 13C6-Fluorene	19:43	3126444		0.8898	90.3	90.3	0.0388	0.0388	90.26	
D 13C6-Phenanthrene	25:06	5841467		0.5724	94.0	94.0	0.0136	0.0136	93.97	
Phenanthrene	25:06	29378683		1.1044	455.4	455.4	0.3620	0.3620		
\$ Anthracin-d10	25:19	403972		0.4257	8.738	8.738	0.0137	0.0137	87.38	
D 13C6-Anthracene	25:26	4937364		0.4523	100.5	100.5	0.0172	0.0172	101	
Anthracene	25:26	3368474		1.3586	50.2	50.2	0.3583	0.3583		
D 13C6-Fluoranthrene	33:51	10167780		1.1994	78.1	78.1	0.0232	0.0232	78.06	
Fluoranthene	33:52	7221983		1.1513	61.7	61.7	0.0925	0.0925		
* Pyrene-d10	35:24	5429780		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:32	9677251		1.3512	66.0	66.0	0.0201	0.0201	65.95	
Pyrene	35:33	7605846		1.0652	73.8	73.8	0.1104	0.1104		
\$ 13C6-Benzo(c)fluorene	39:15	3167380		0.5136	56.8	56.8	0.0134	0.0134	85.19	
D 13C6-Benzo(a)anthracene	46:05	7396060		1.5189	58.0	58.0	0.0142	0.0142	58.02	
Benzo[a]anthracene	46:05	145103		0.9739	2.015	2.015	0.0348	0.0348		
D 13C6-Chrysene	46:21	8452977		1.6287	61.8	61.8	0.0132	0.0132	61.84	
Chrysene	46:21	545180		0.9815	6.571	6.571	0.0323	0.0323		
D 13C6-Benzo(b)fluoranthene	54:38	9880684		1.4621	80.5	80.5	0.008864	0.008864	80.52	
Benzo[b]fluoranthene	54:38	651151		1.1249	5.858	5.858	0.0226	0.0226		
\$ 13C12-Benzo(j)fluoranthene	54:40	6148419		1.3558	54.0	54.0	0.0213	0.0213	81.05	
D 13C6-Benzo(k)fluoranthene	54:45	11982520		1.7507	81.6	81.6	0.007403	0.007403	81.55	
Benzo[k]fluoranthene	54:45	202676		1.1271	1.501	1.501	0.0223	0.0223		
* Benzo(e)pyrene-d12	55:28	4196439		5.7E+04	50.0	50.0				
D 13C4-Benzo(e)pyrene	55:34	9394941		1.6368	68.4	68.4	0.0119	0.0119	68.39	
Benzo[e]pyrene	55:34	2051587		1.0013	21.8	21.8	0.0212	0.0212		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[a]pyrene	55:42	385828		1.1130	3.743	3.743	0.0239	0.0239		
D 13C4-Benzo(a)pyrene	55:42	9262365		1.5508	71.2	71.2	0.0126	0.0126	71.16	
D Perylene-d12	55:52	6392656		1.1917	63.9	63.9	0.0224	0.0224	63.92	
Perylene	55:52	108379		1.4307	1.185	1.185	0.0238	0.0238		M
D 13C6-Indeno(1,2,3-cd)pyrene	58:00	6419736		1.0218	74.9	74.9	0.0143	0.0143	74.85	a
Indeno[1,2,3-cd]pyrene	58:01	679575		1.1249	9.410	9.410	0.0171	0.0171		M
D 13C6-Dibenz(a,h)anthracene	58:05	7092592		1.0553	80.1	80.1	0.006988	0.006988	80.08	M
Dibenz(a,h)anthracene	58:04						0.006292	0.006292		U
D 13C12-Benzo(ghi)perylene	58:28	7878319		1.2749	73.6	73.6	0.006013	0.006013	73.63	M
Benzo[g,h,i]perylene	58:29	3949807		1.2838	39.1	39.1	0.0132	0.0132		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Lims ID: 140-36689-A-6-D
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Sample Type: Client
Inject. Date: 25-Jun-2024 02:53:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033236-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 25-Jun-2024 11:33:39 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: F9EE

Date: 25-Jun-2024 11:30:53

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:31	1	0.666	6063312	2115009	192	480	11016		
Naphthalene											
128.0626	11:33	11:28	1	1.001	22356860	7977623	8602	21505	927		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:50	0	0.800	3636264	1699332	58	145	29299		
2-Methylnaphthalene											
142.0783	13:51	13:51	-1	1.000	12352971	5838773	763	1907	7652		
13C6-Acenaphthylene											
158.0828	16:43	16:43	-1	0.966	4933249	1795957	88	220	20409		
Acenaphthylene											
152.0626	16:44	16:44	0	1.000	749649	263597	1855	4637	142		
Acenaphthene-d10											
164.1404	17:18	17:18	0		1946370	668355	101	252	6617		
13C6-Acenaphthene											
160.0984	17:25	17:25	-1	1.007	2810160	964605	96	240	10048		
Acenaphthene											
154.0783	17:25	17:25	-1	1.000	1562075	506187	580	1450	873		
Fluorene											
166.0783	19:43	19:42	-1	1.000	4499066	1327273	1693	4232	784		
13C6-Fluorene											
172.0984	19:43	19:43	-1	1.139	3126444	941976	185	462	5092		
13C6-Phenanthrene											
184.0984	25:06	25:06	-1	0.709	5841467	1394342	64	160	21787		
Phenanthrene											
178.0783	25:06	25:06	-1	1.000	29378683	7036912	2230	5575	3156		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:19	25:20	-1	0.715	403972	95446	48	120	1988		
13C6-Anthracene											
184.0984	25:26	25:25	0	0.719	4937364	1145403	64	160	17897		E
Anthracene											
178.0783	25:26	25:26	-1	1.000	3368474	760654	2230	5575	341		
13C6-Fluoranthrene											
208.0984	33:51	33:50	0	0.956	10167780	1984001	229	572	8664		
Fluoranthene											
202.0783	33:52	33:52	0	1.000	7221983	1405020	845	2112	1663		
Pyrene-d10											
212.1404	35:24	35:24	-1		5429780	1029925	113	282	9114		
13C3-Pyrene											
205.0883	35:32	35:32	-1	1.004	9677251	1795478	224	560	8016		
Pyrene											
202.0783	35:33	35:32	0	1.000	7605846	1442670	845	2112	1707		
13C6-Benzo(c)fluorene											
222.1134	39:15	39:15	0	0.707	3167380	588353	57	142	10322		
13C6-Benzo(a)anthracene											
234.1140	46:05	46:03	1	1.302	7396060	1285213	236	590	5446		
Benzo[a]anthracene											
228.0939	46:05	46:04	1	1.000	145103	25859	174	435	149		
13C6-Chrysene											
234.1140	46:21	46:19	1	1.310	8452977	1372153	236	590	5814		
Chrysene											
228.0939	46:21	46:20	1	1.000	545180	70223	174	435	404		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:38	1	0.985	9880684	2609319	142	355	18375		
Benzo[b]fluoranthene											
252.0939	54:38	54:37	1	1.000	651151	134399	265	662	507		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:40	1	0.985	6148419	1433622	317	792	4522		
13C6-Benzo(k)fluoranthene											
258.1140	54:45	54:45	1	0.987	11982520	2629711	142	355	18519		
Benzo[k]fluoranthene											
252.0939	54:45	54:44	1	1.000	202676	42618	265	662	161		
Benzo(e)pyrene-d12											
264.1692	55:28	55:28	1		4196439	1369646	292	730	4691		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:34	1	1.002	9394941	3115595	214	535	14559		
Benzo[e]pyrene											
252.0939	55:34	55:33	1	1.000	2051587	670246	265	662	2529		
Benzo[a]pyrene											
252.0939	55:42	55:42	1	1.000	385828	74034	265	662	279		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:42	55:42	1	1.004	9262365	2493292	214	535	11651		
Perylene-d12											
264.1692	55:52	55:52	1	1.007	6392656	1942861	292	730	6654		
Perylene											M
252.0939	55:52	55:52	-3	1.000	108379	12159	265	662	46		M
13C6-Indeno(1,2,3-cd)pyrene											a
282.1140	58:00	58:00	-4	1.046	6419736	1951401	160	400	12196		a
Indeno[1,2,3-cd]pyrene											M
276.0939	58:01	58:00	-3	1.000	679575	181343	150	375	1209		M
13C6-Dibenz(a,h)anthracene											M
284.1296	58:05	58:05	1	1.047	7092592	1896409	81	202	23412		M
Dibenz(a,h)anthracene											U
278.1096	58:05						54	135			
13C12-Benzo(ghi)perylene											M
288.1342	58:28	58:29	1	1.054	7878319	2215125	84	210	26371		M
Benzo[g,h,i]perylene											M
276.0939	58:29	58:29	1	1.000	3949807	1067160	150	375	7114		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

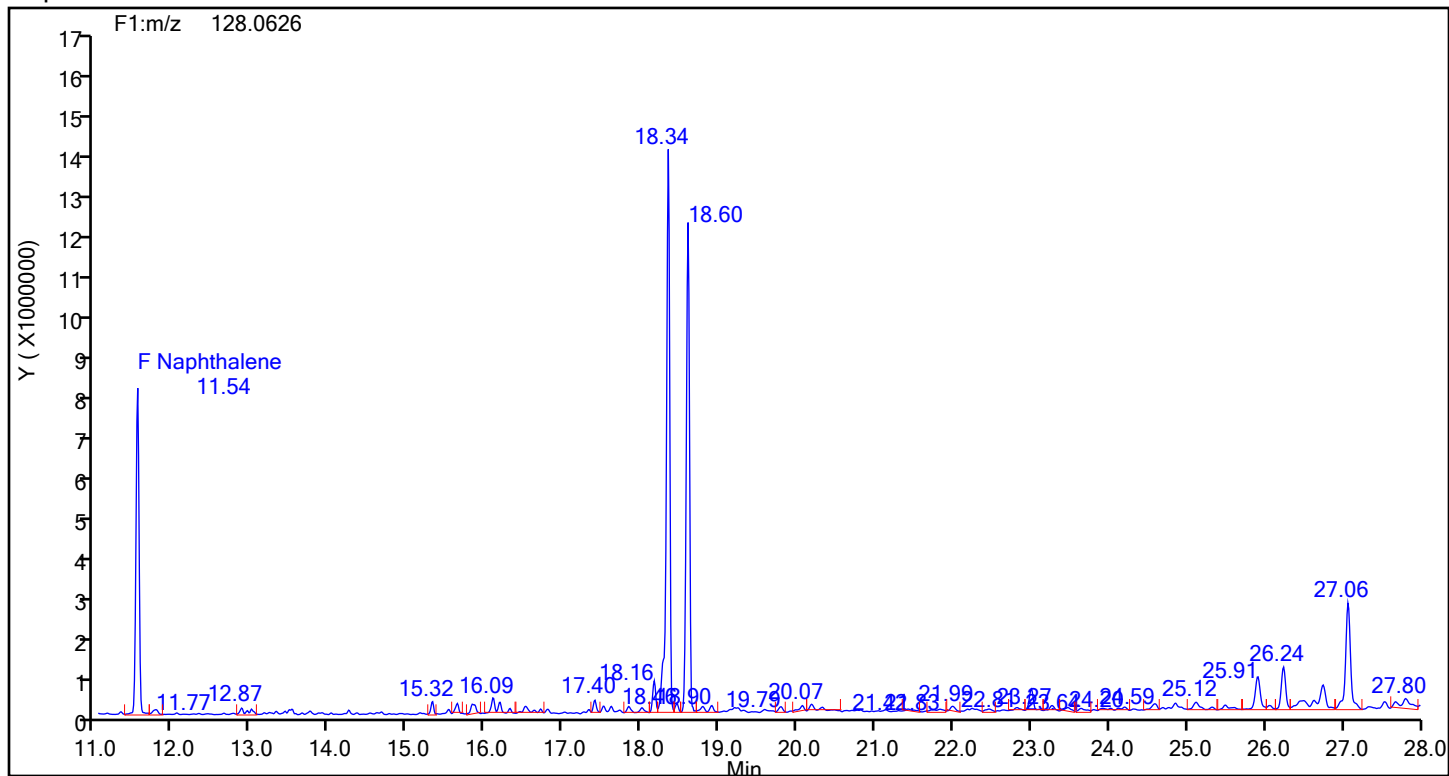
U - Marked Undetected

a - User Assigned ID

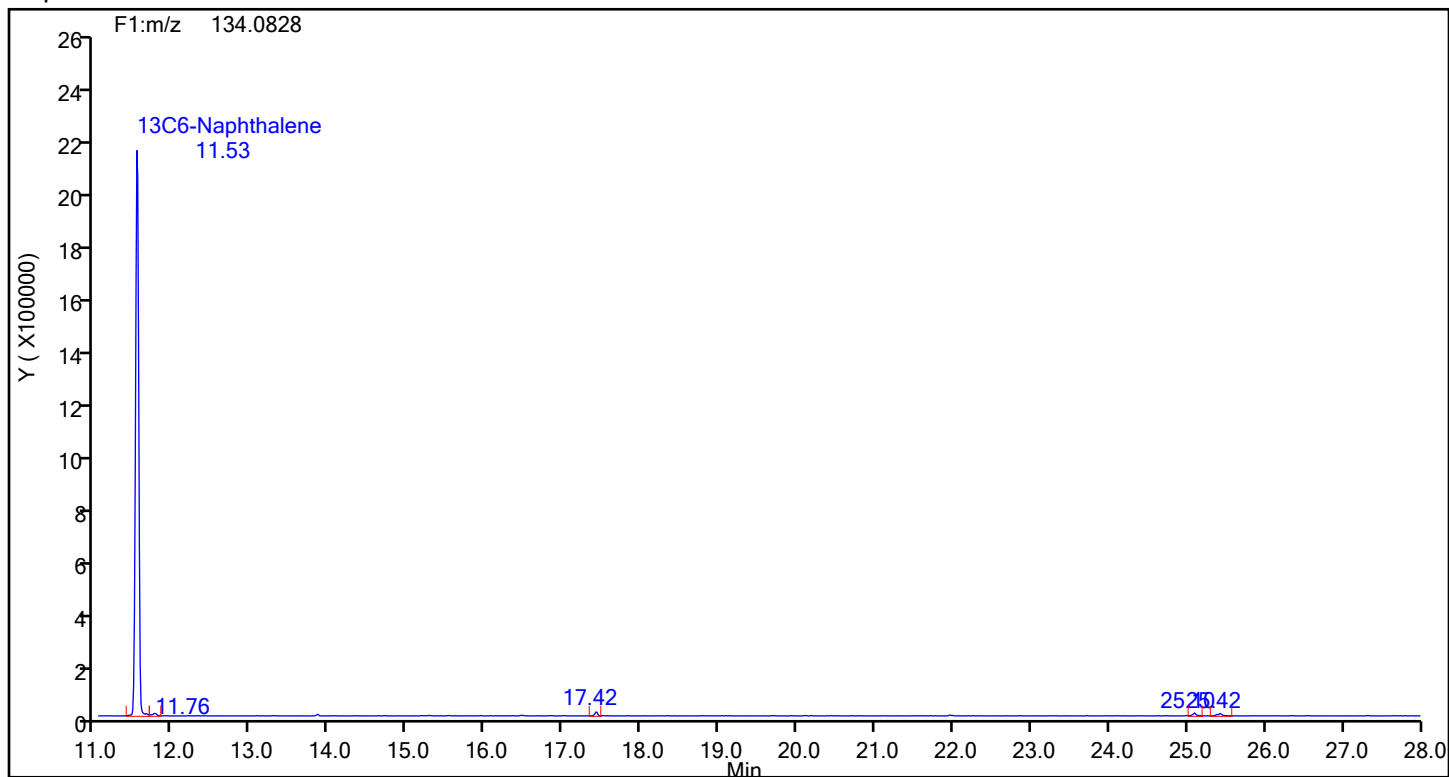
Eurofins Knoxville

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Injection Date: 25-Jun-2024 02:53:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



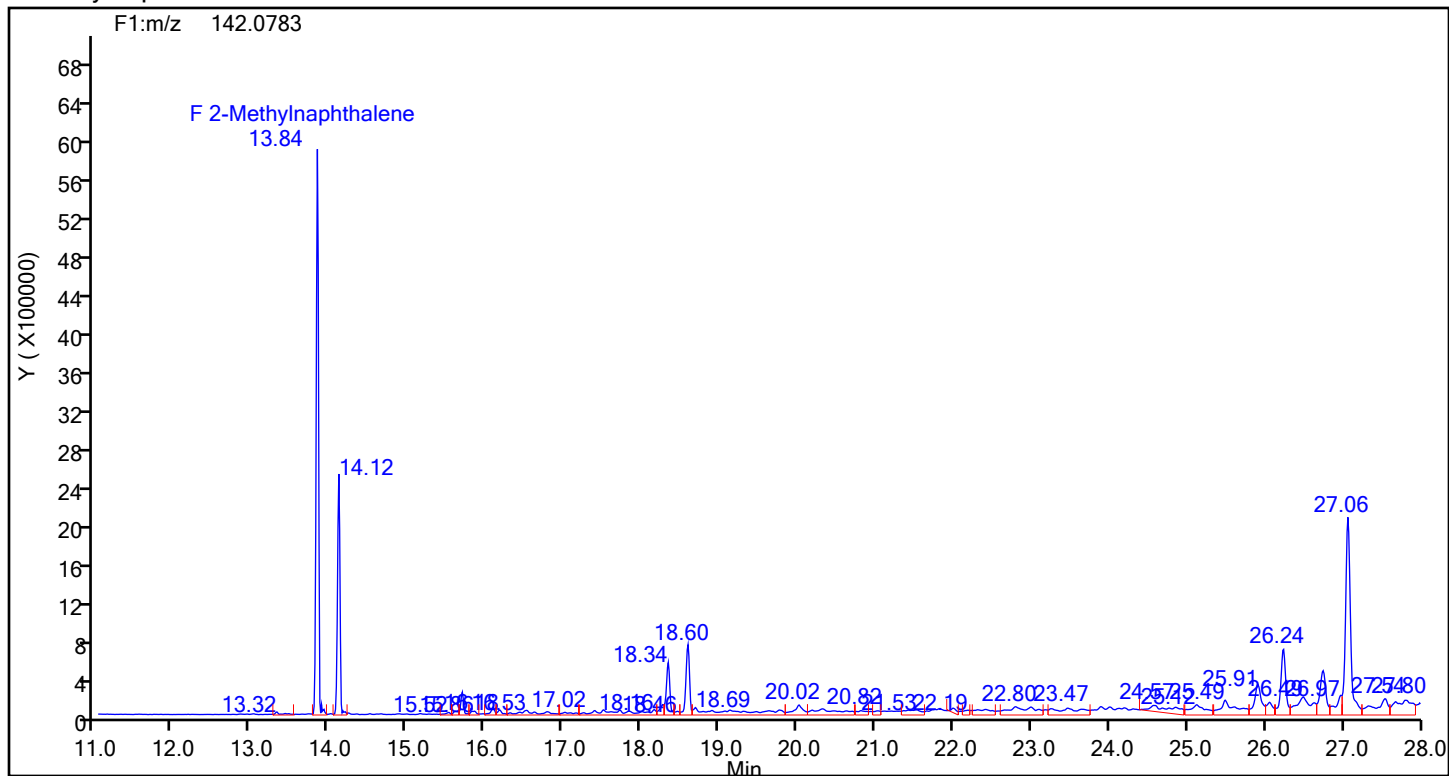
Naphthalene Standards



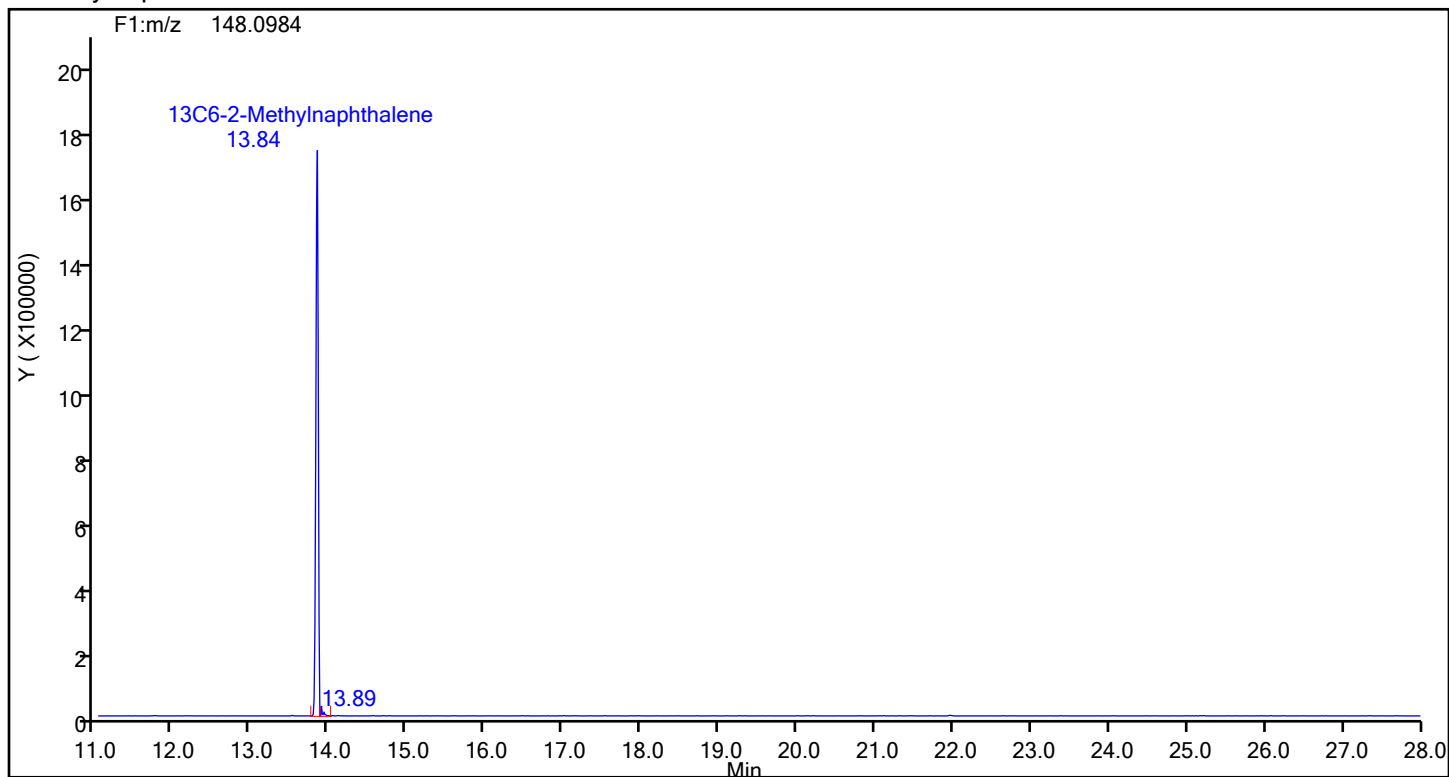
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



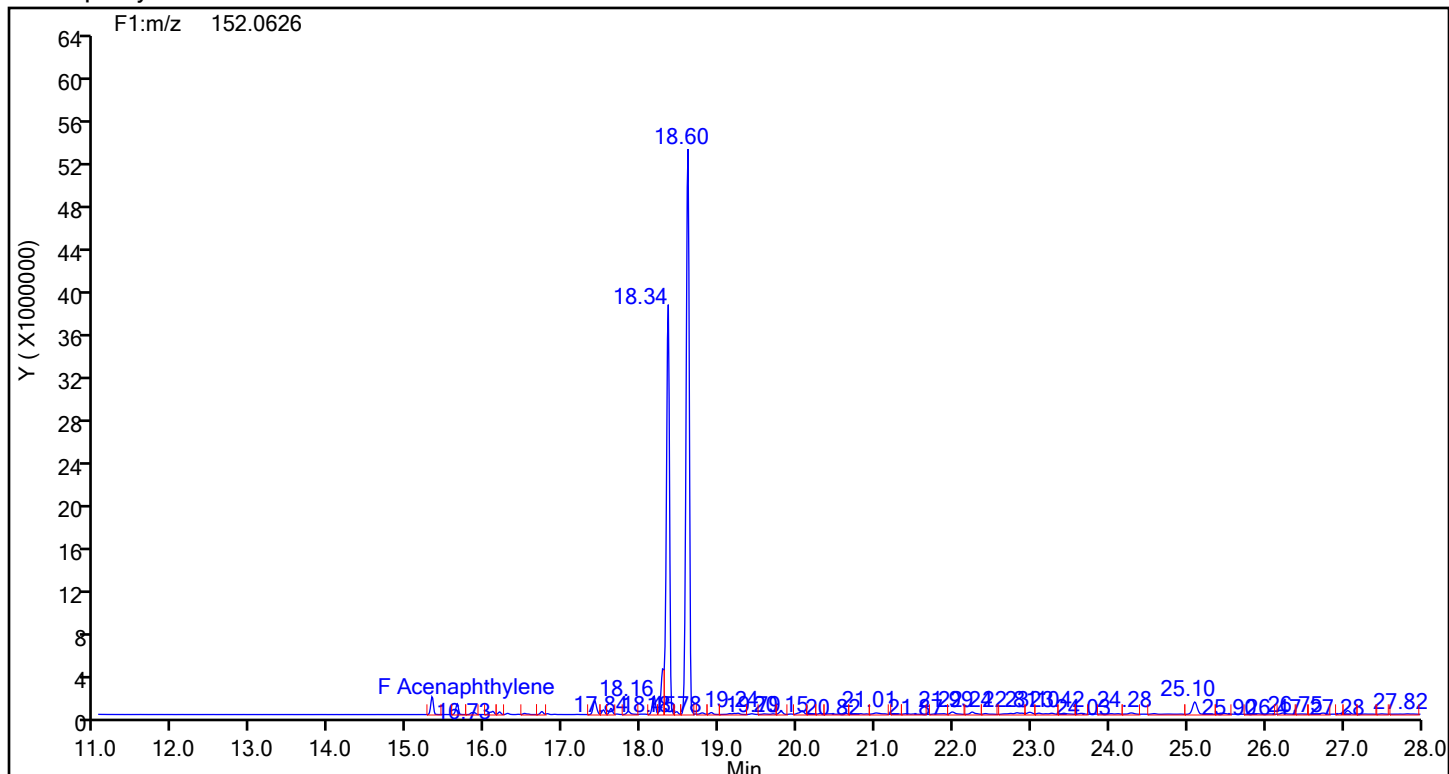
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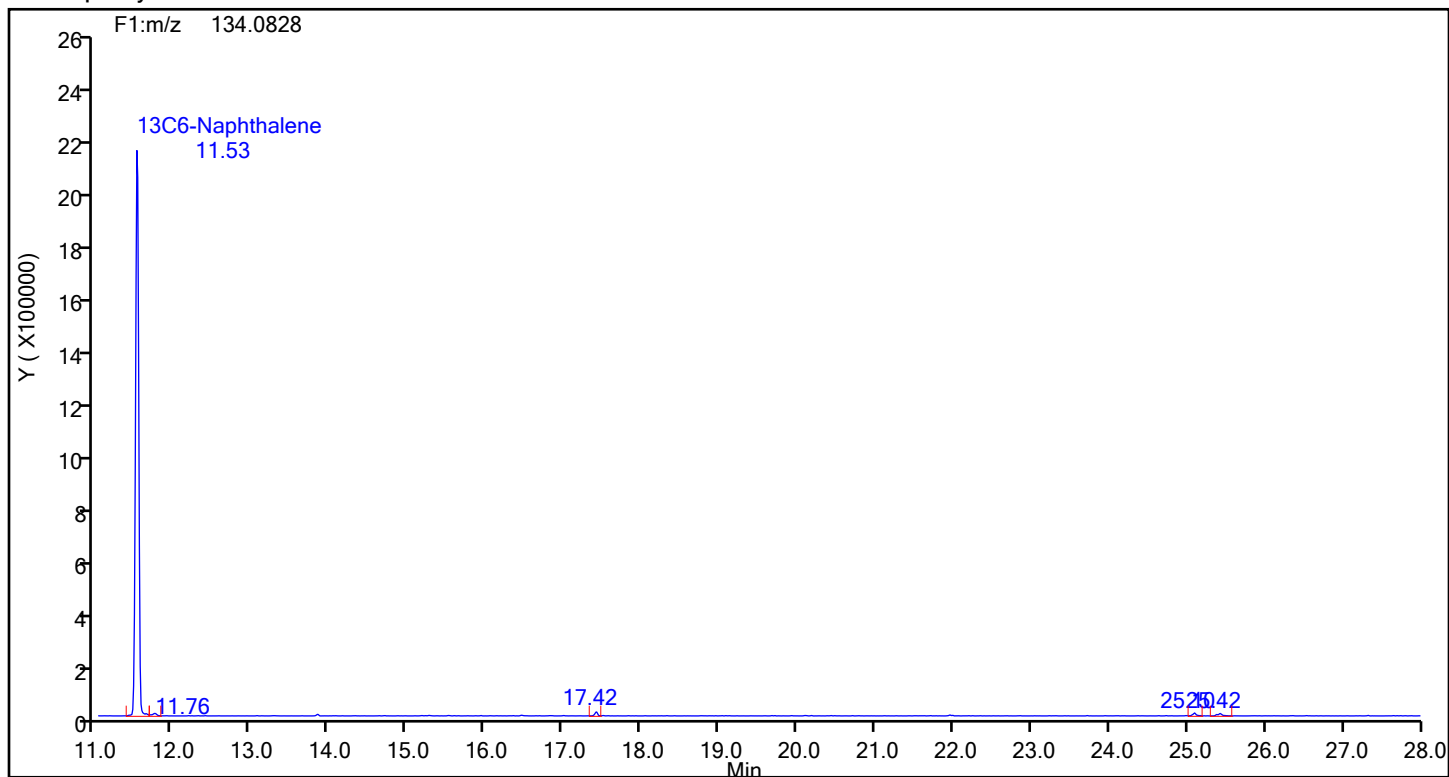
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Injection Date: 25-Jun-2024 02:53:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d

Injection Date: 25-Jun-2024 02:53:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 6 COMBINED

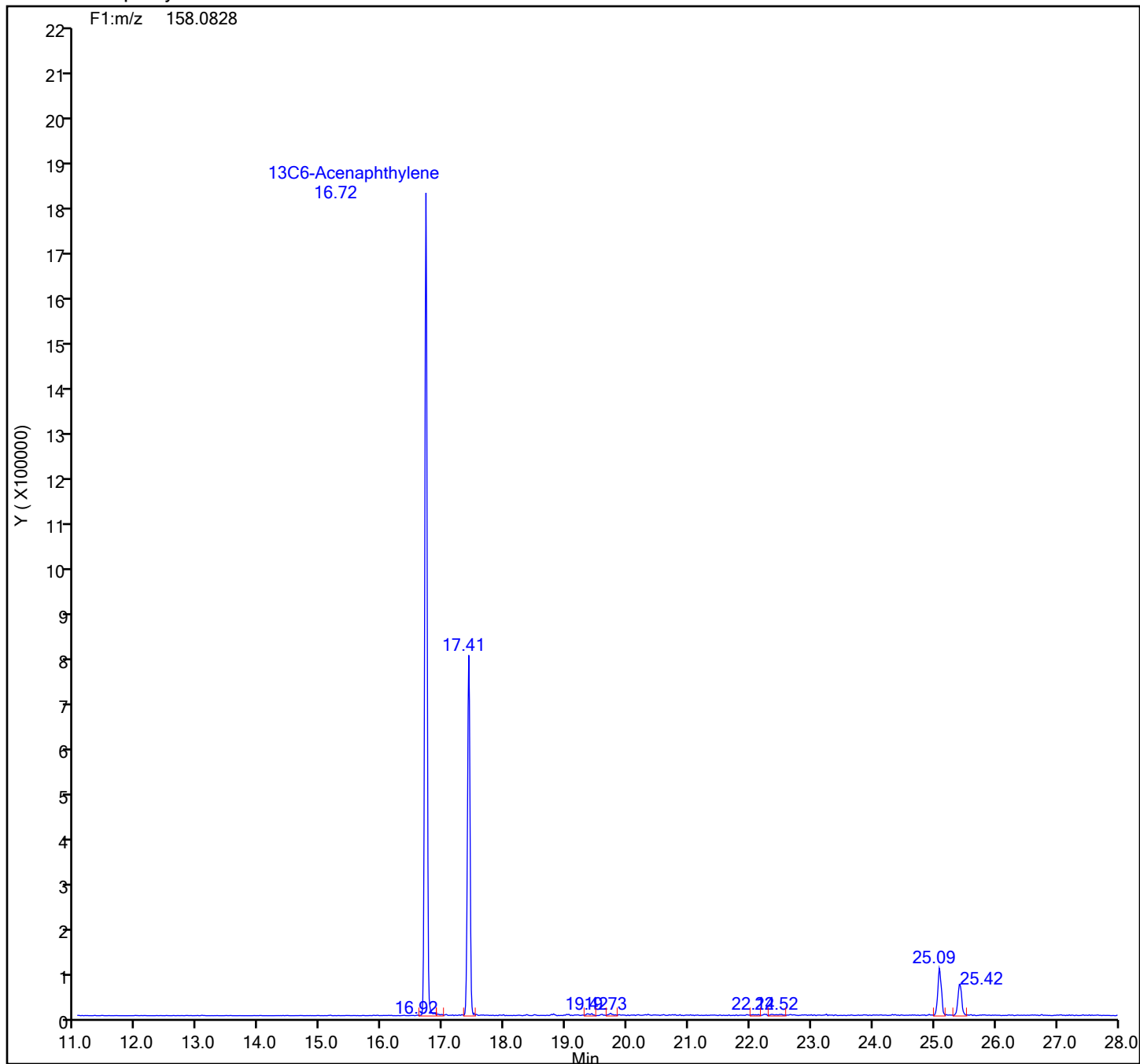
Worklist#: 88048

Sample Line#: 7

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

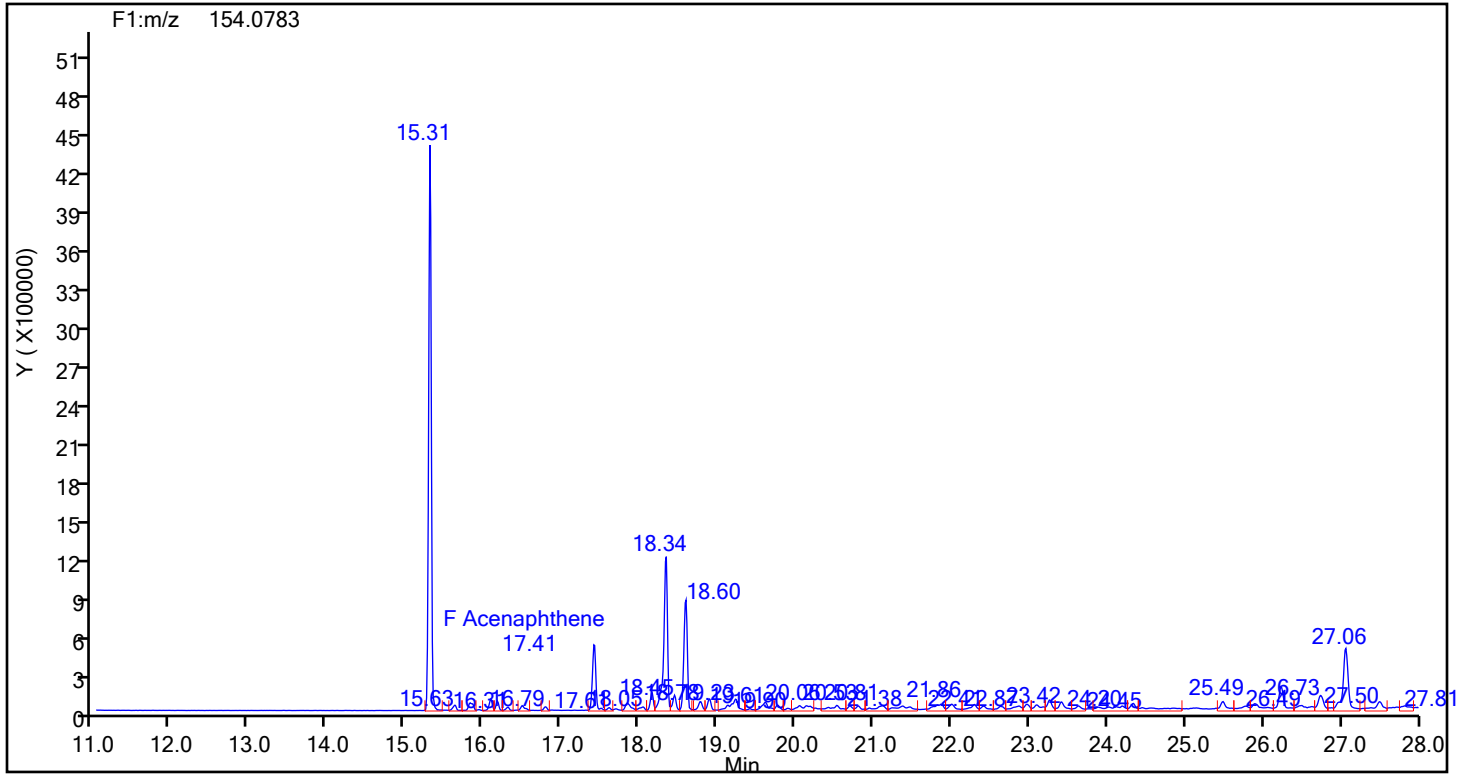
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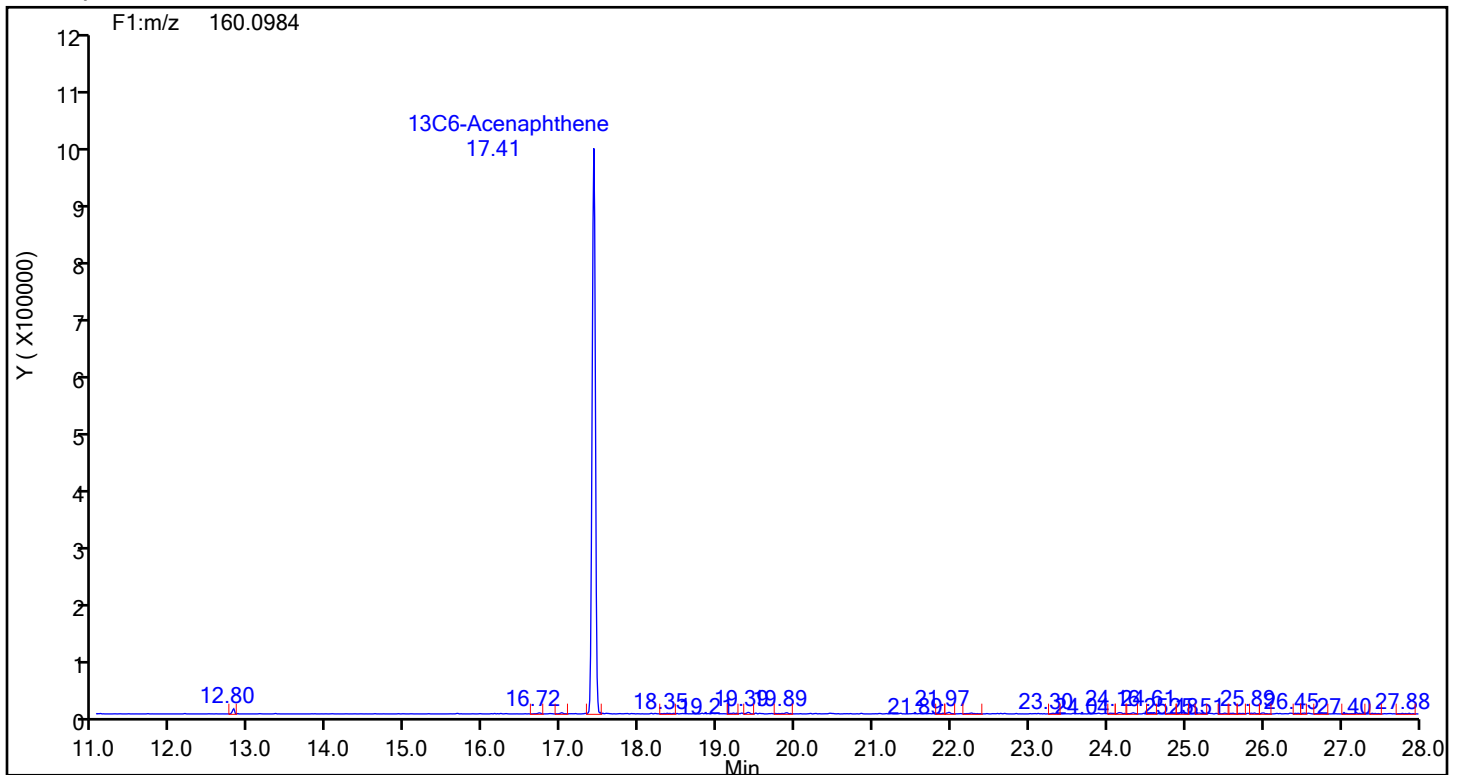
Eurofins Knoxville

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Injection Date: 25-Jun-2024 02:53:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



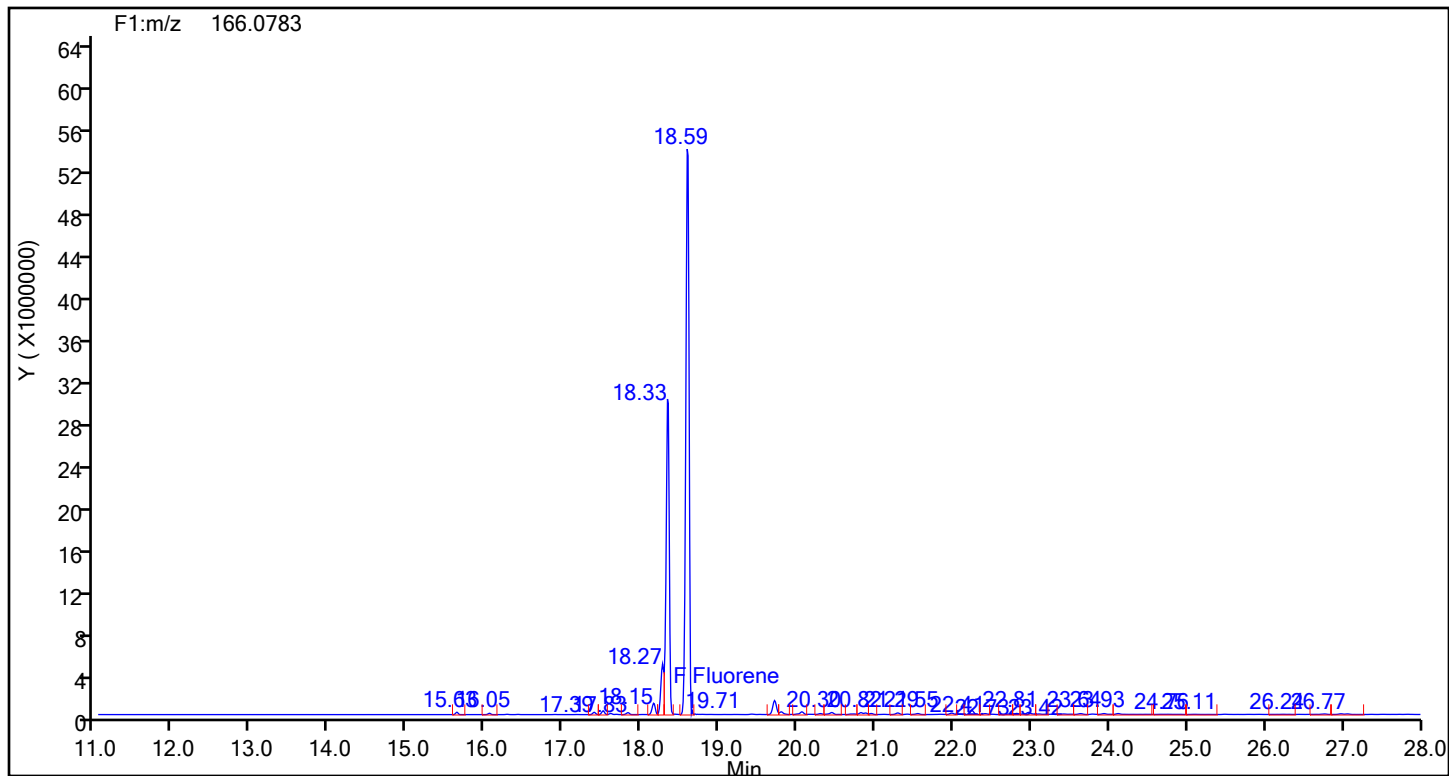
Acenaphthene Standards



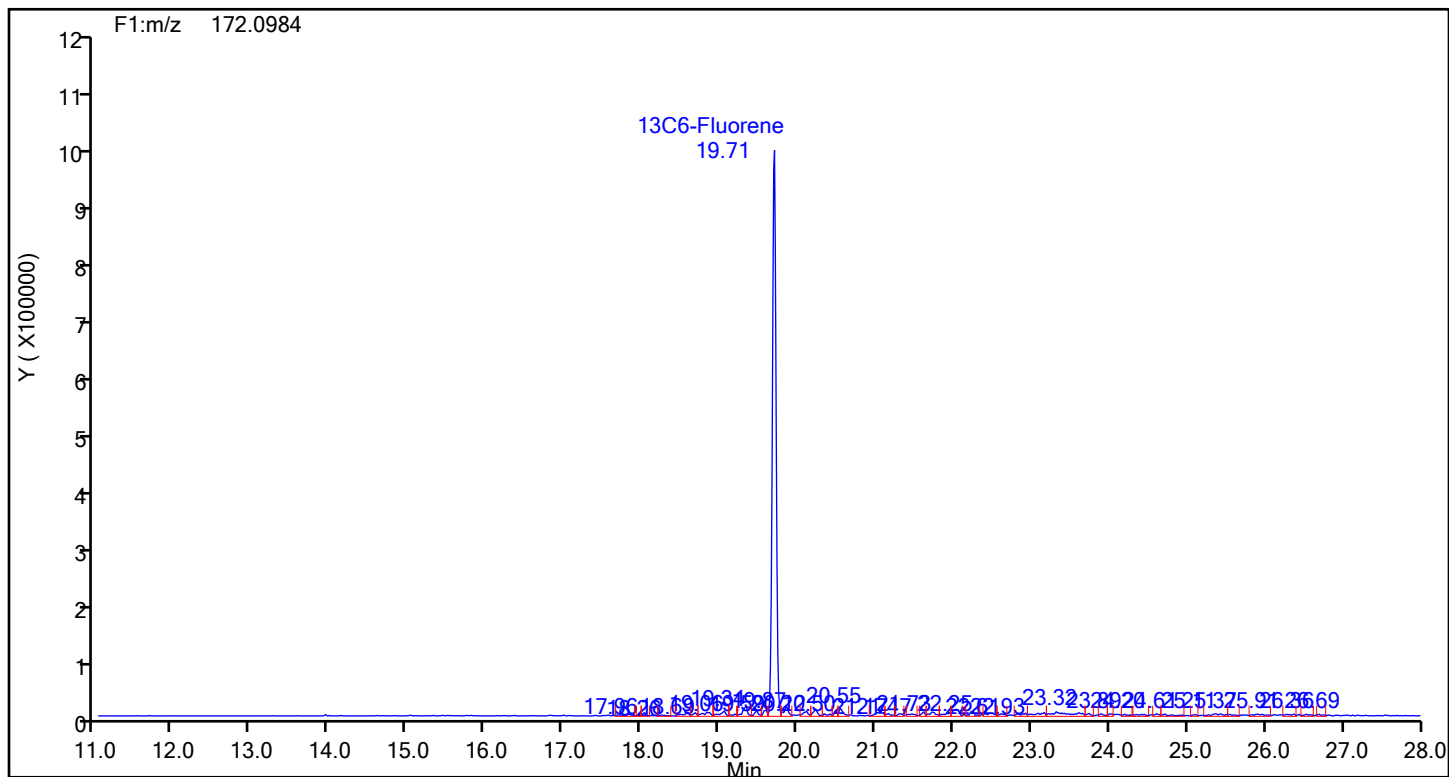
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Injection Date: 25-Jun-2024 02:53:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



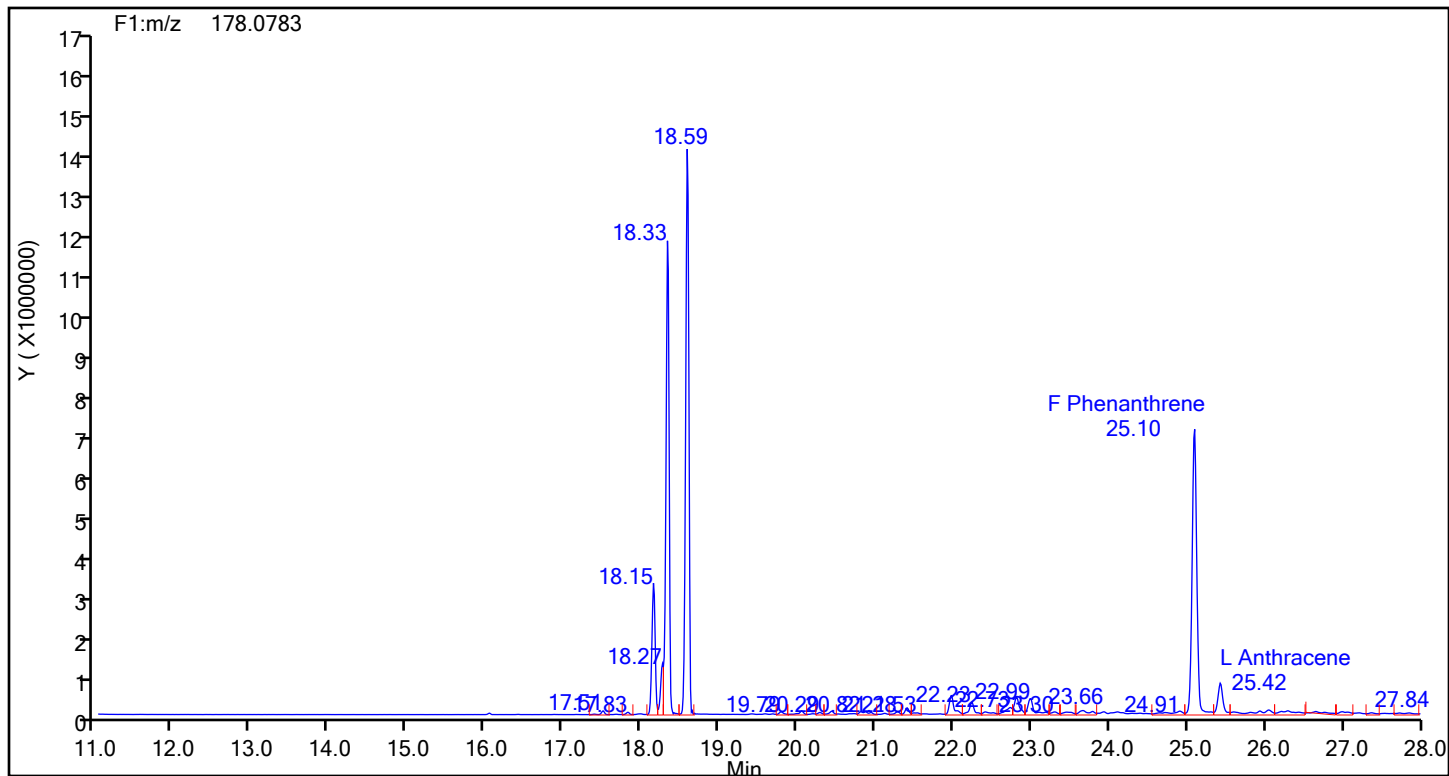
Fluorene Standards



Eurofins Knoxville

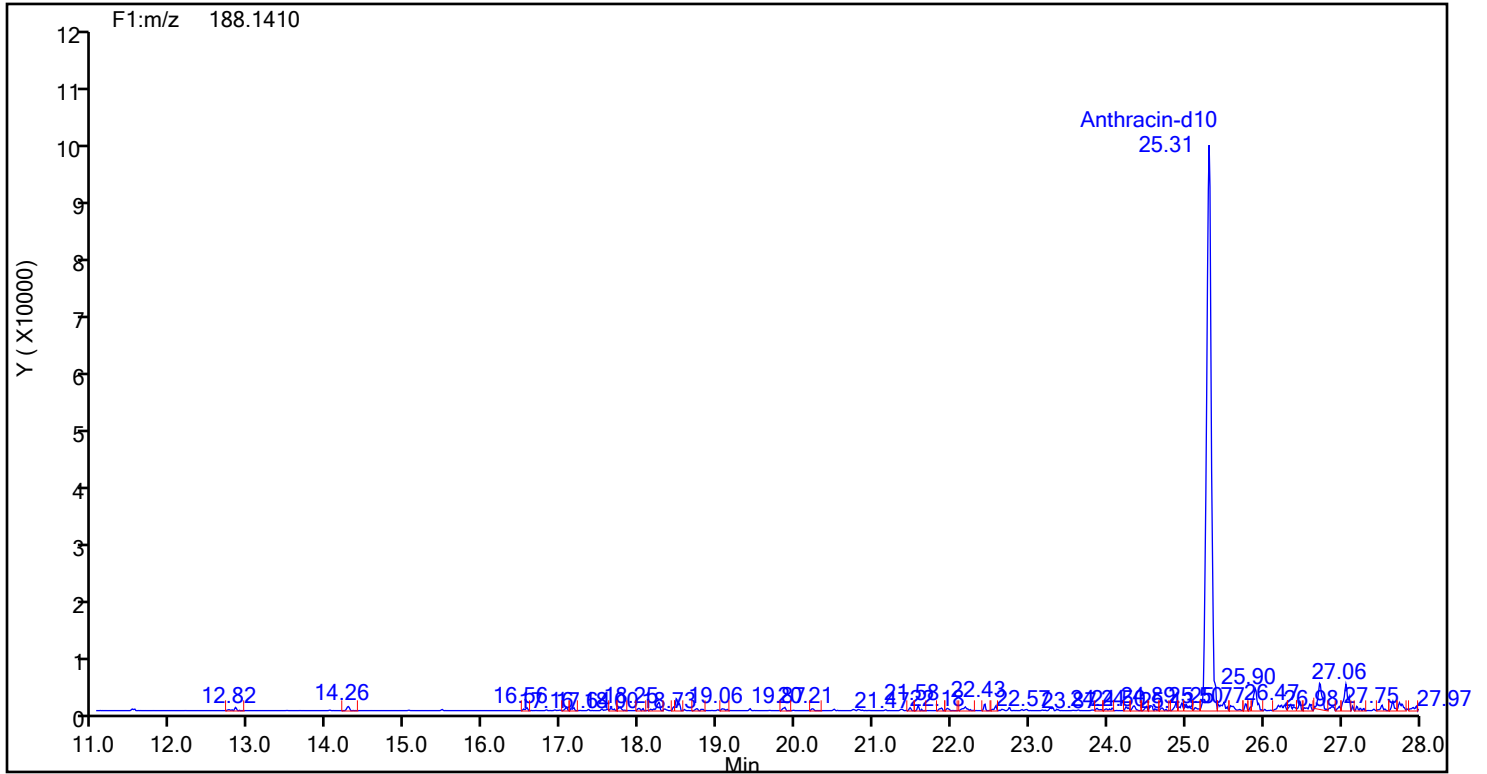
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Injection Date: 25-Jun-2024 02:53:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

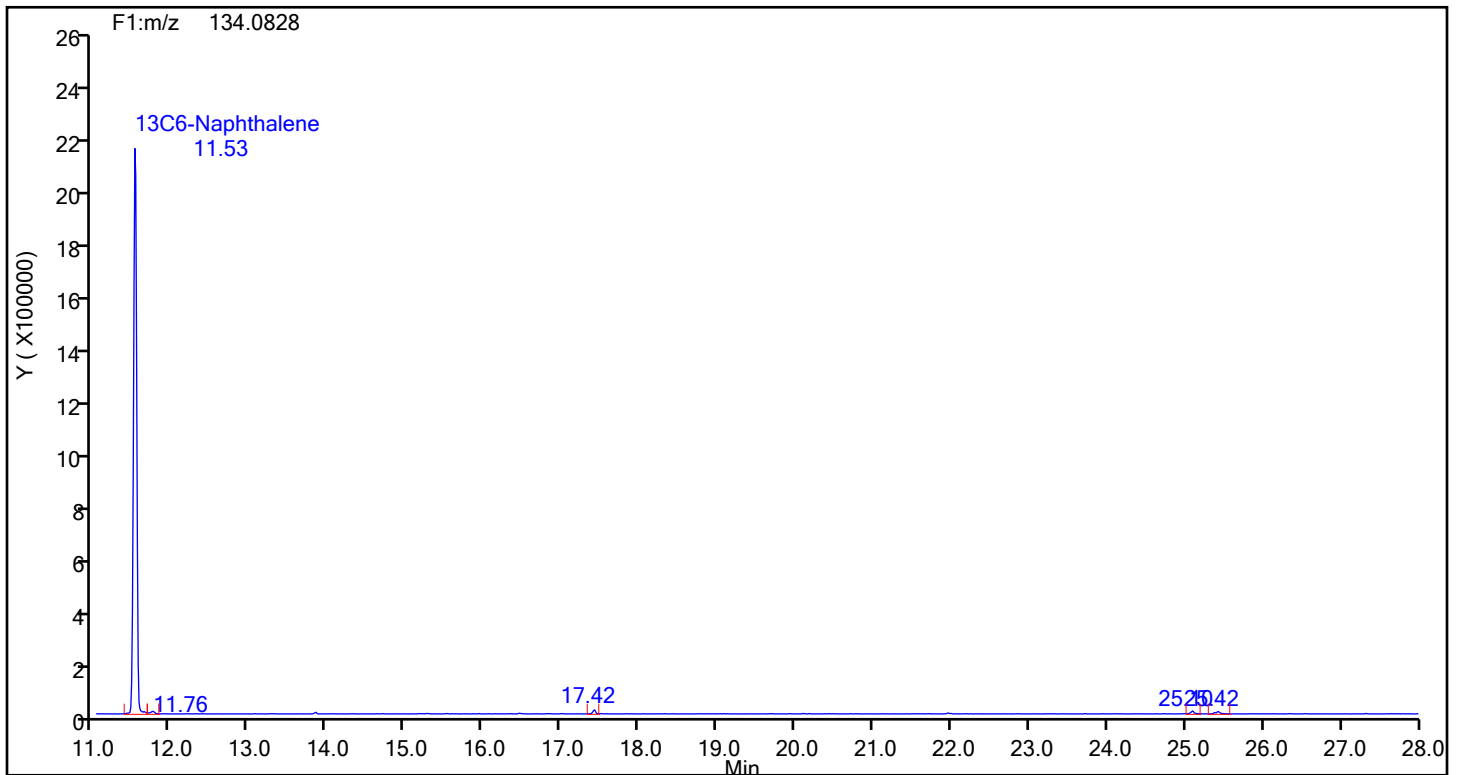


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Injection Date: 25-Jun-2024 02:53:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

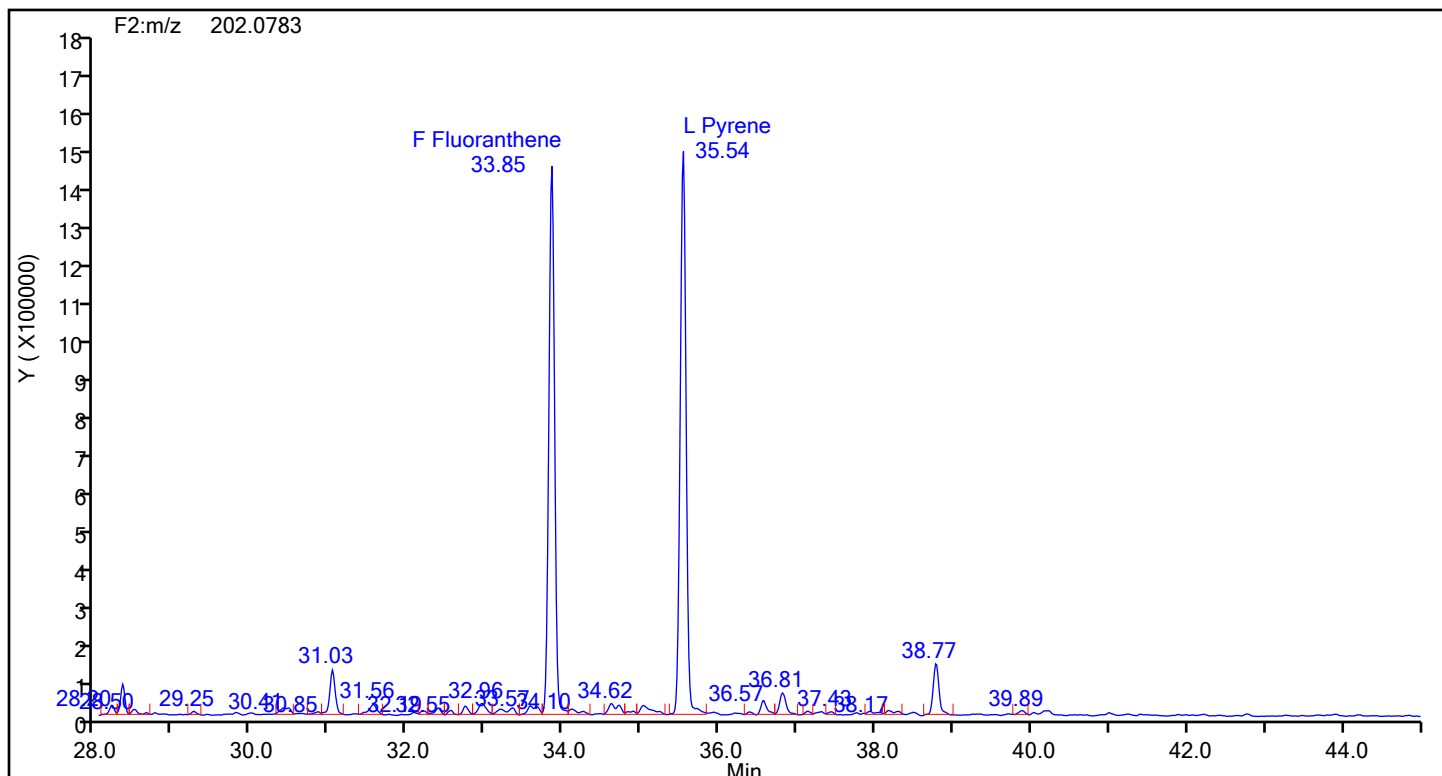


Anthracin-d10 Standards

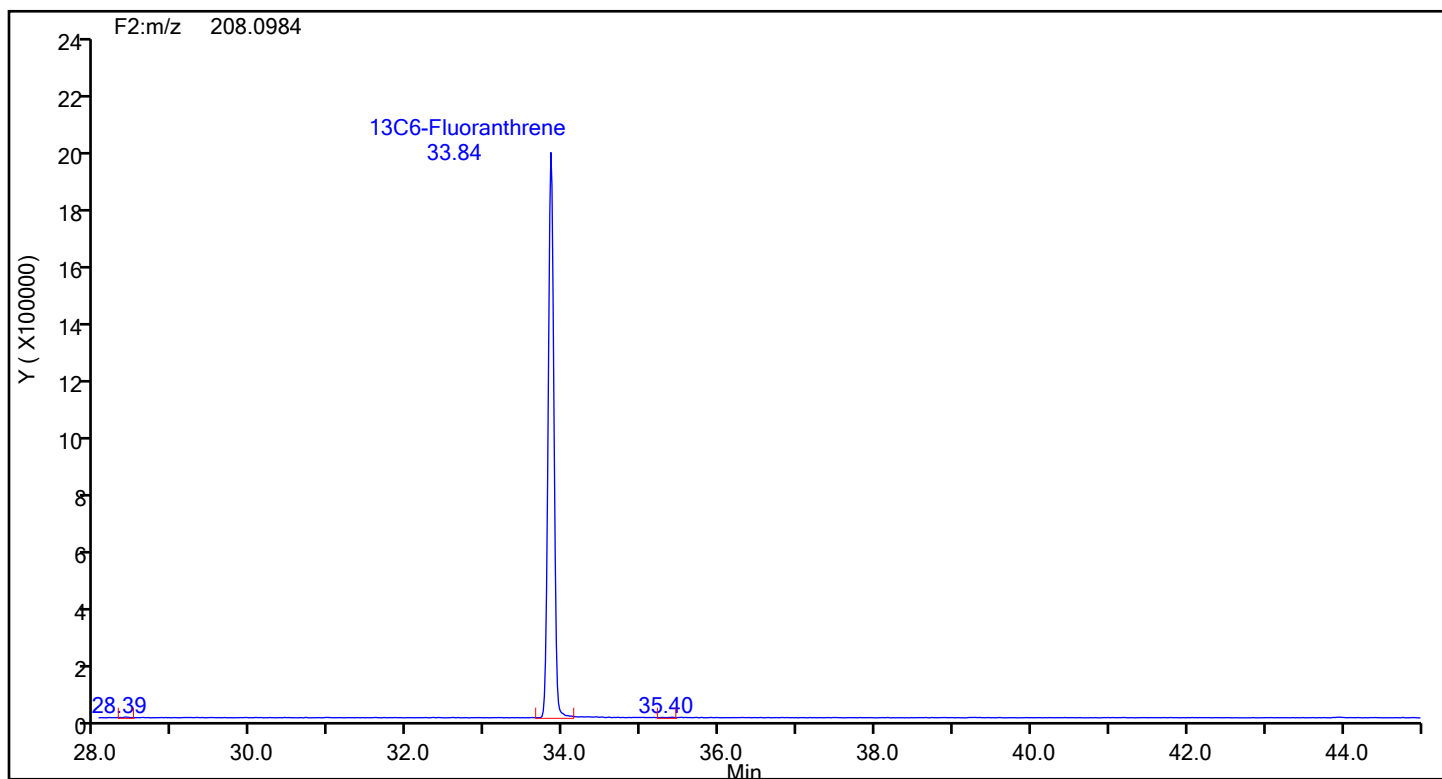


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Injection Date: 25-Jun-2024 02:53:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



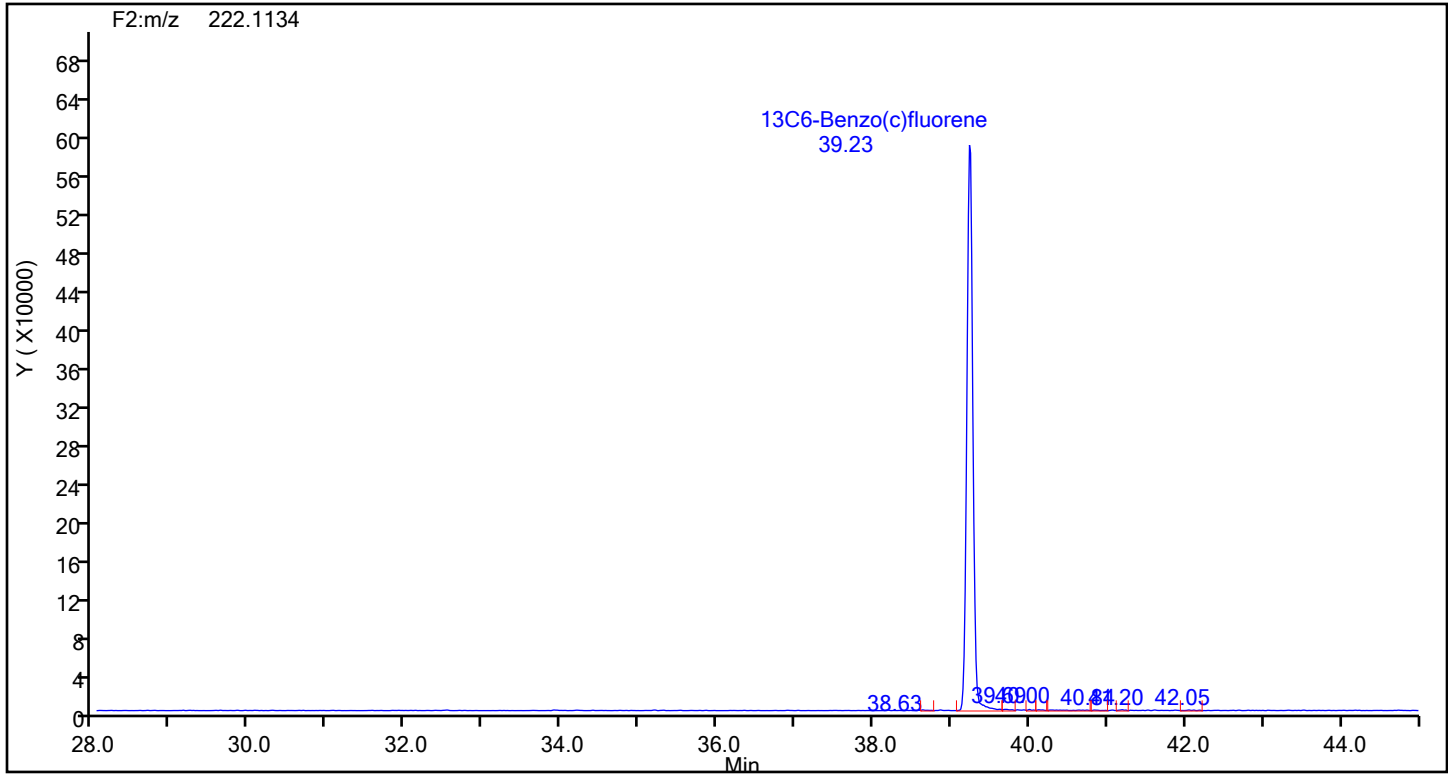
Fluoranthene Standards



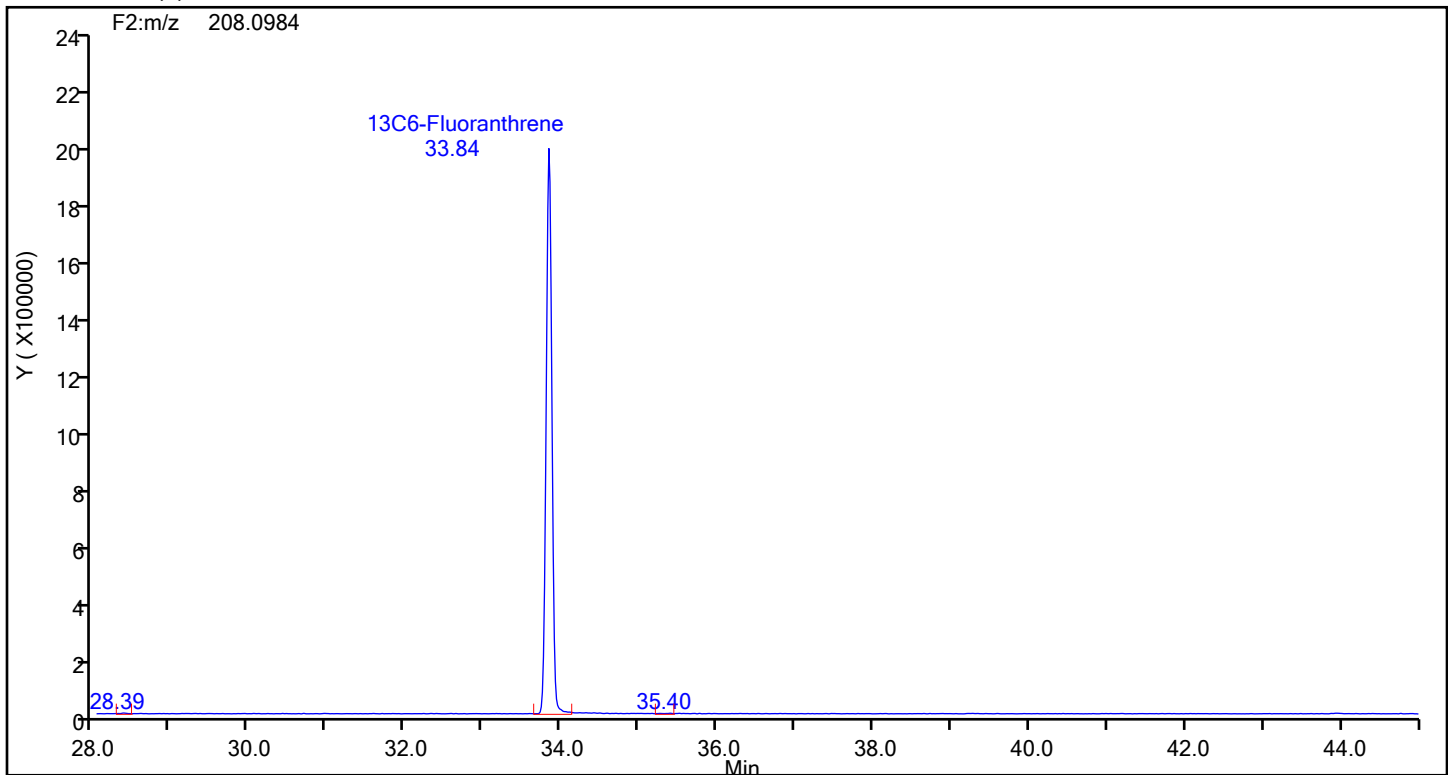
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Injection Date: 25-Jun-2024 02:53:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



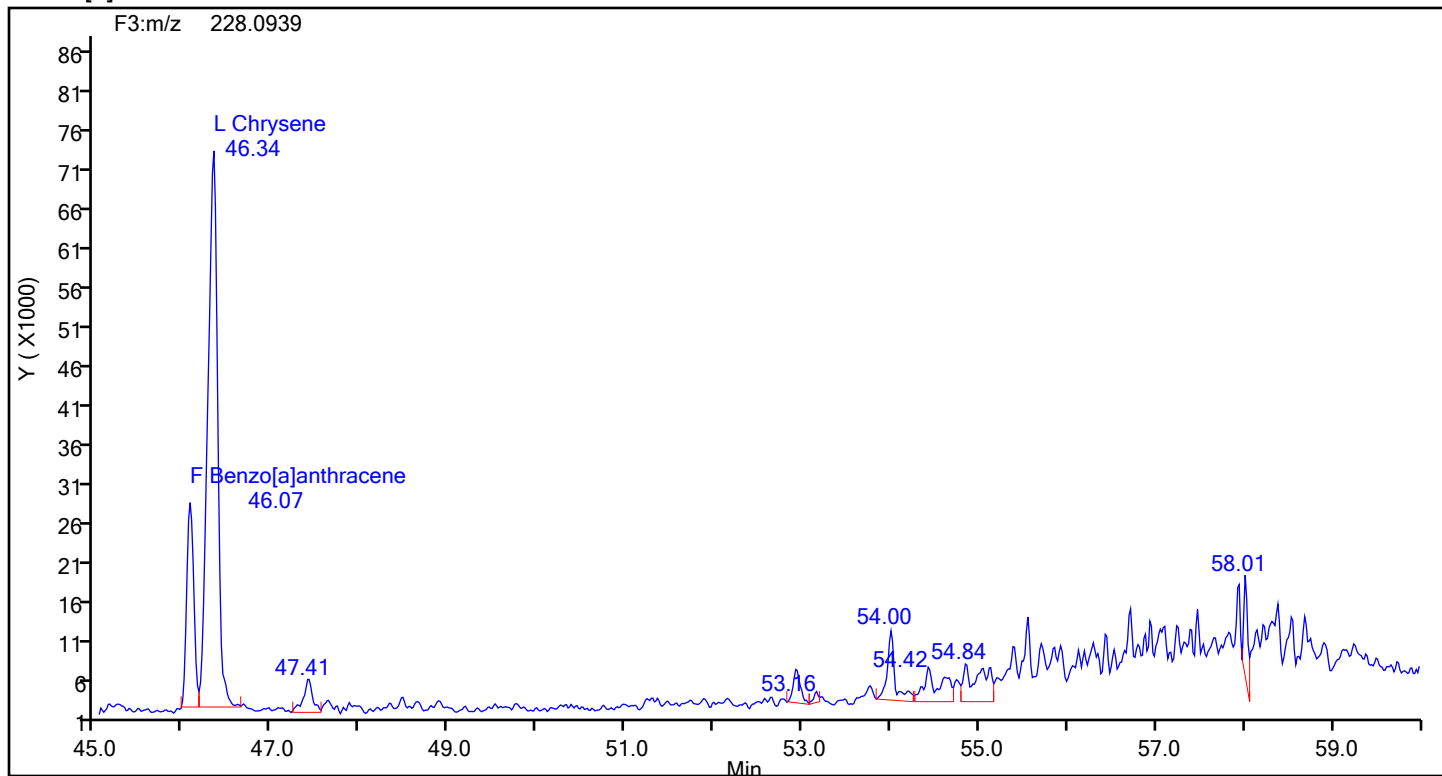
13C6-Benzo(c)fluorene Standards



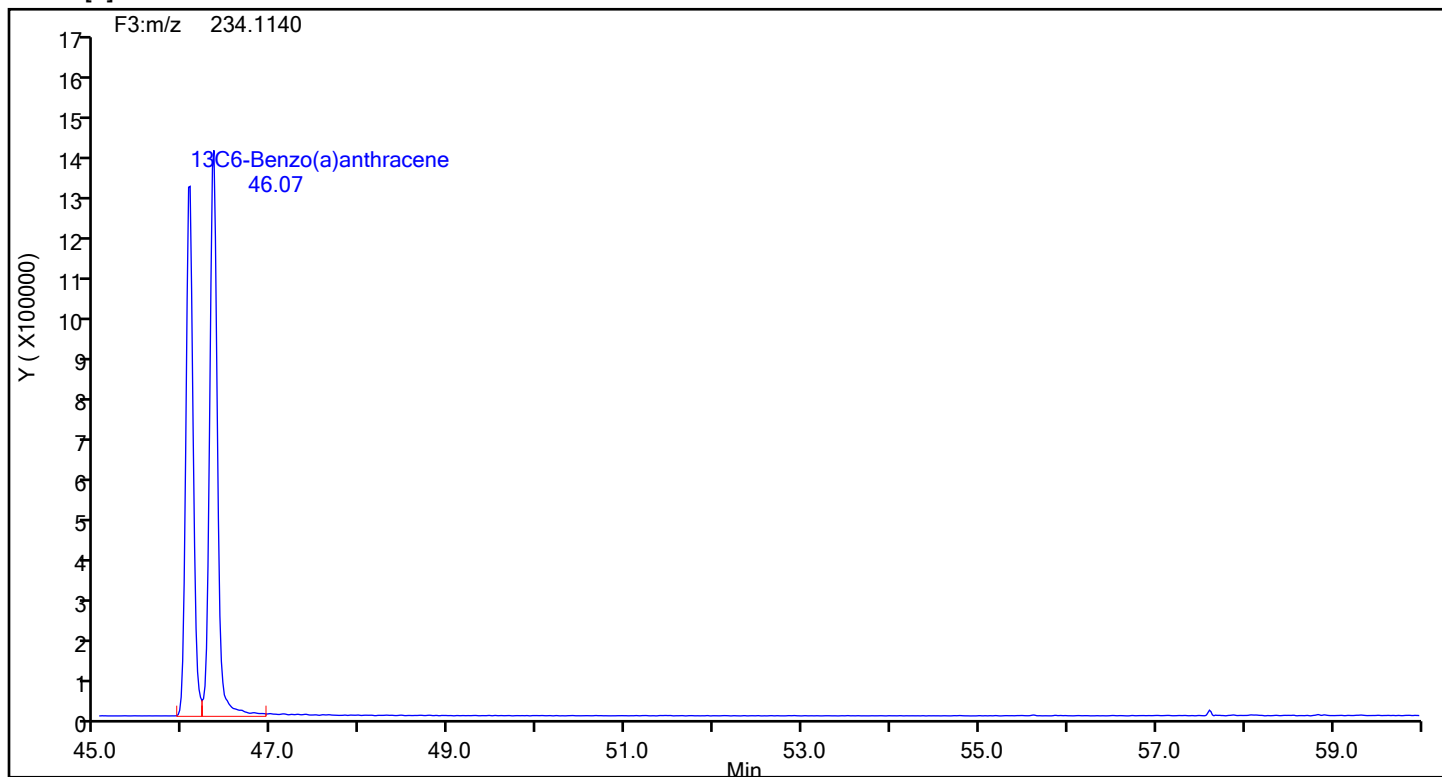
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Injection Date: 25-Jun-2024 02:53:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



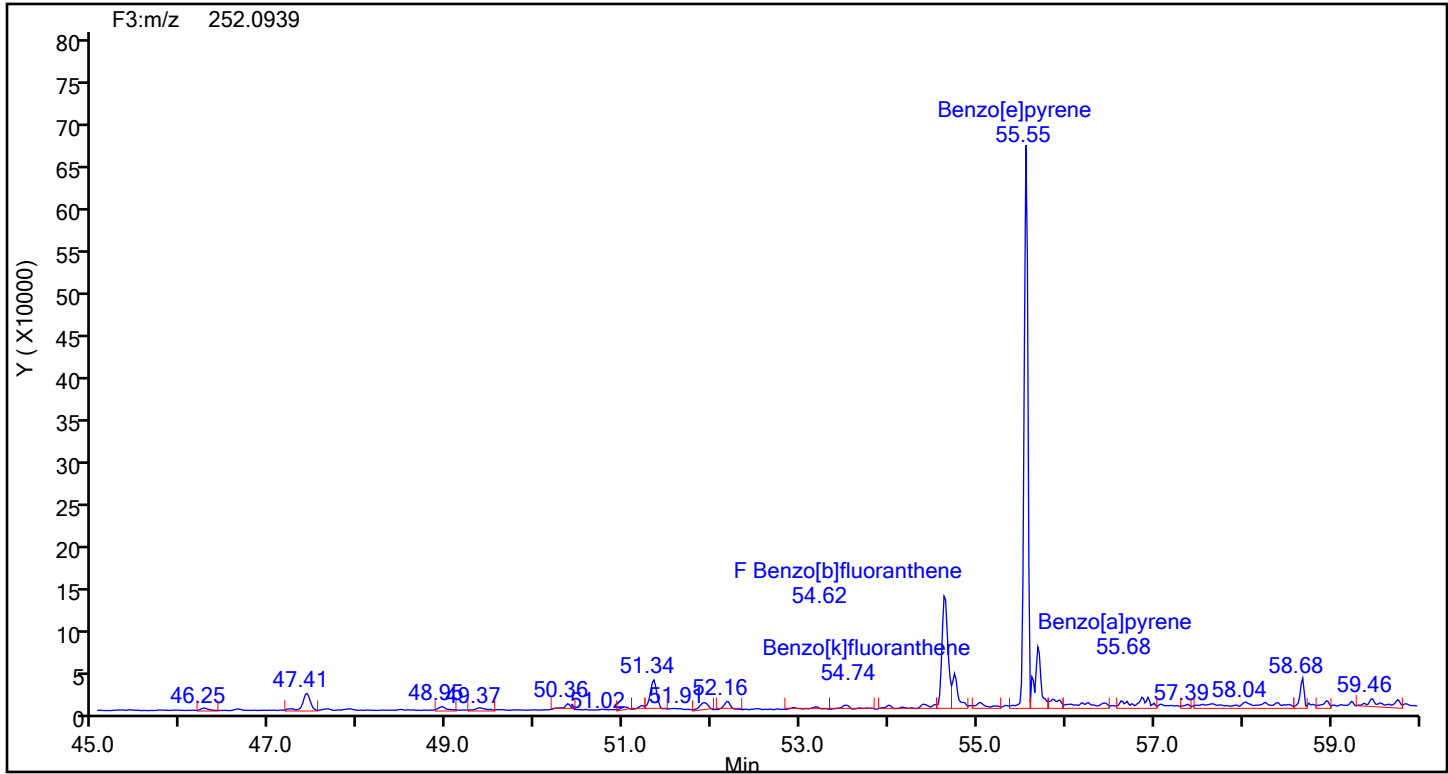
Benzo[a]anthracene Standards



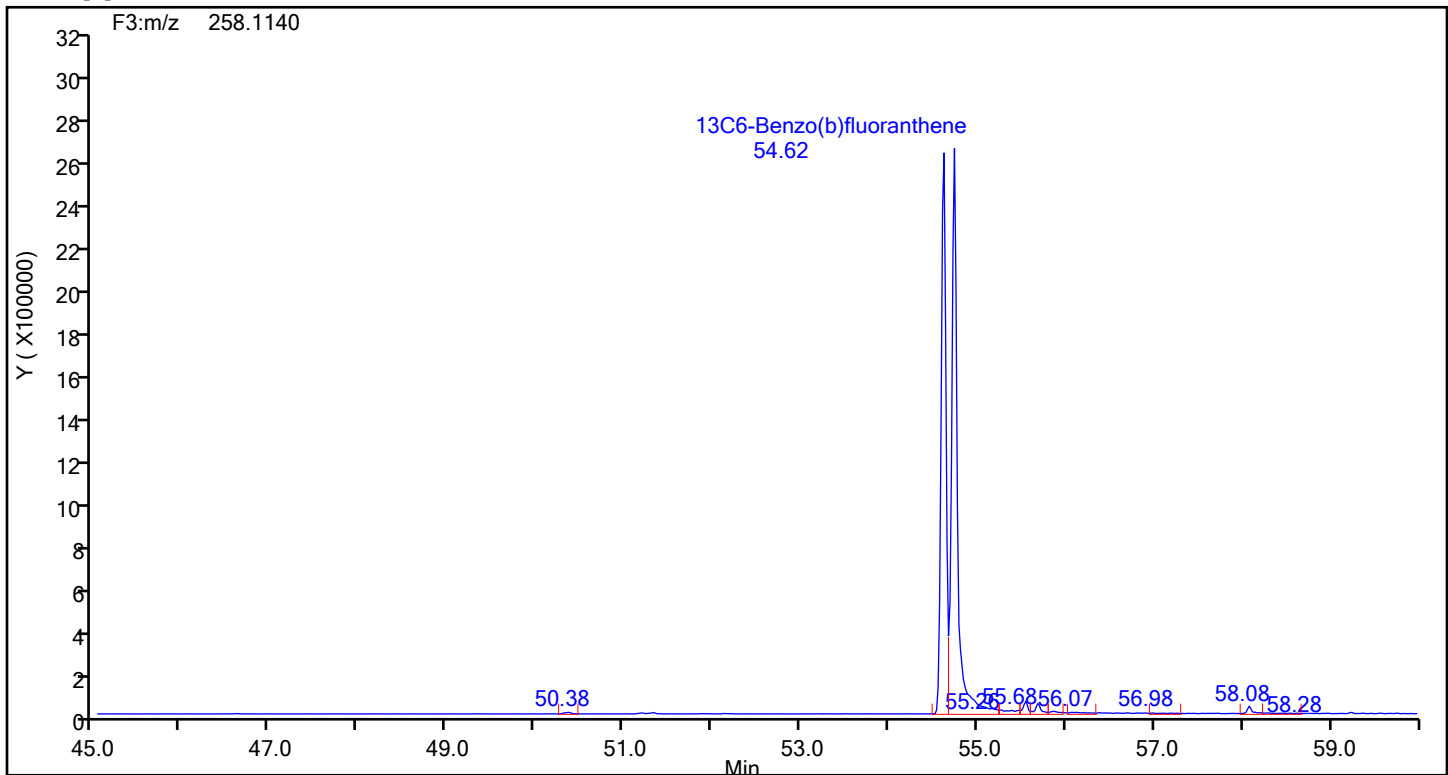
Eurofins Knoxville

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Injection Date: 25-Jun-2024 02:53:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

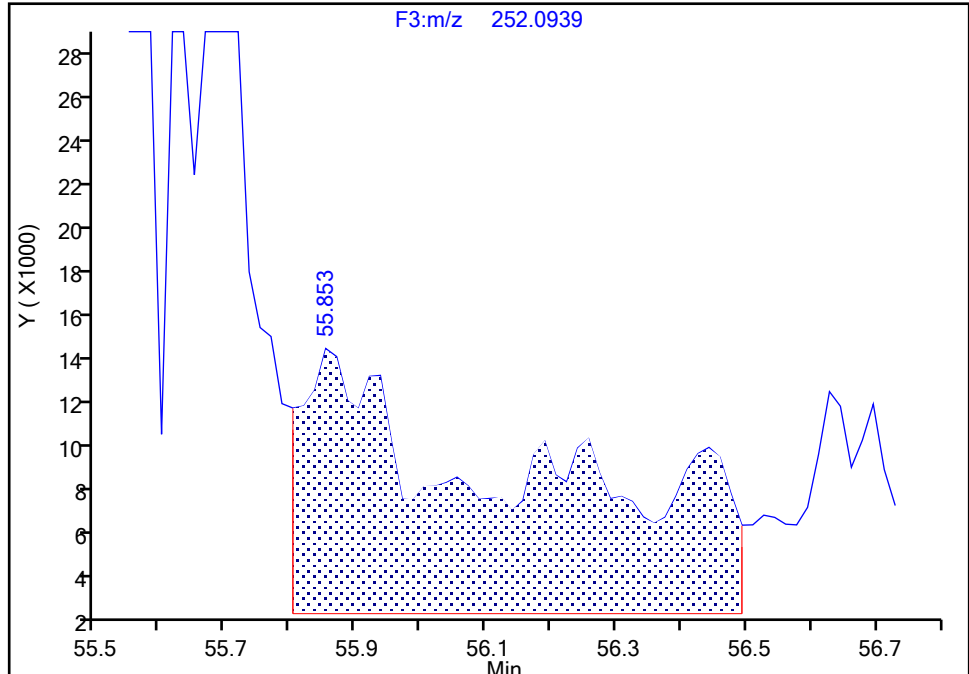
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Injection Date: 25-Jun-2024 02:53:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-6-D Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

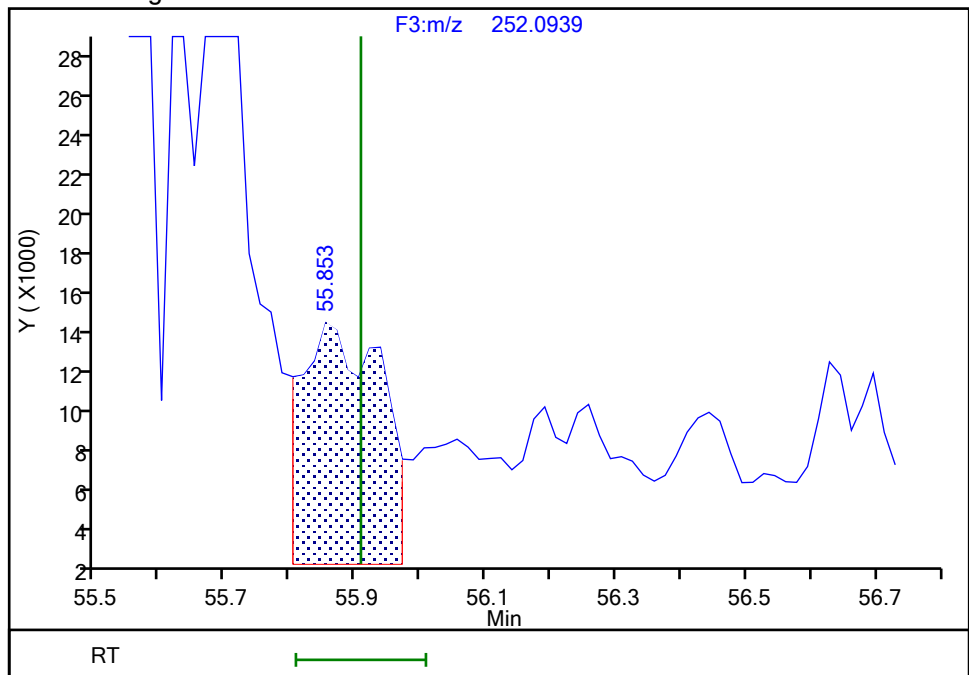
RT: 55.85
Area: 287005
Amount: 3.138107
Amount Units: pg/ul

Processing Integration Results



RT: 55.85
Area: 108379
Amount: 1.185014
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:29:56 -04:00:00 (UTC)

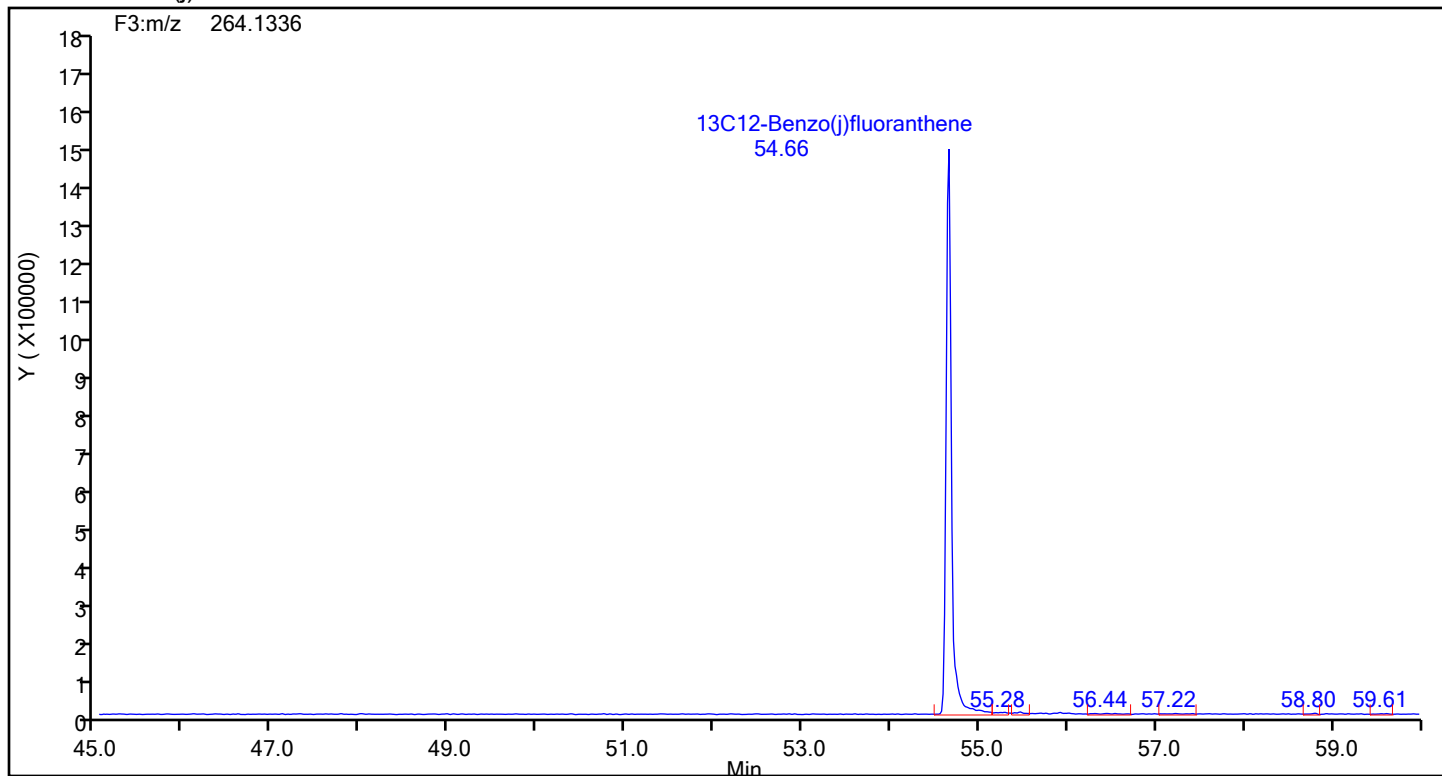
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

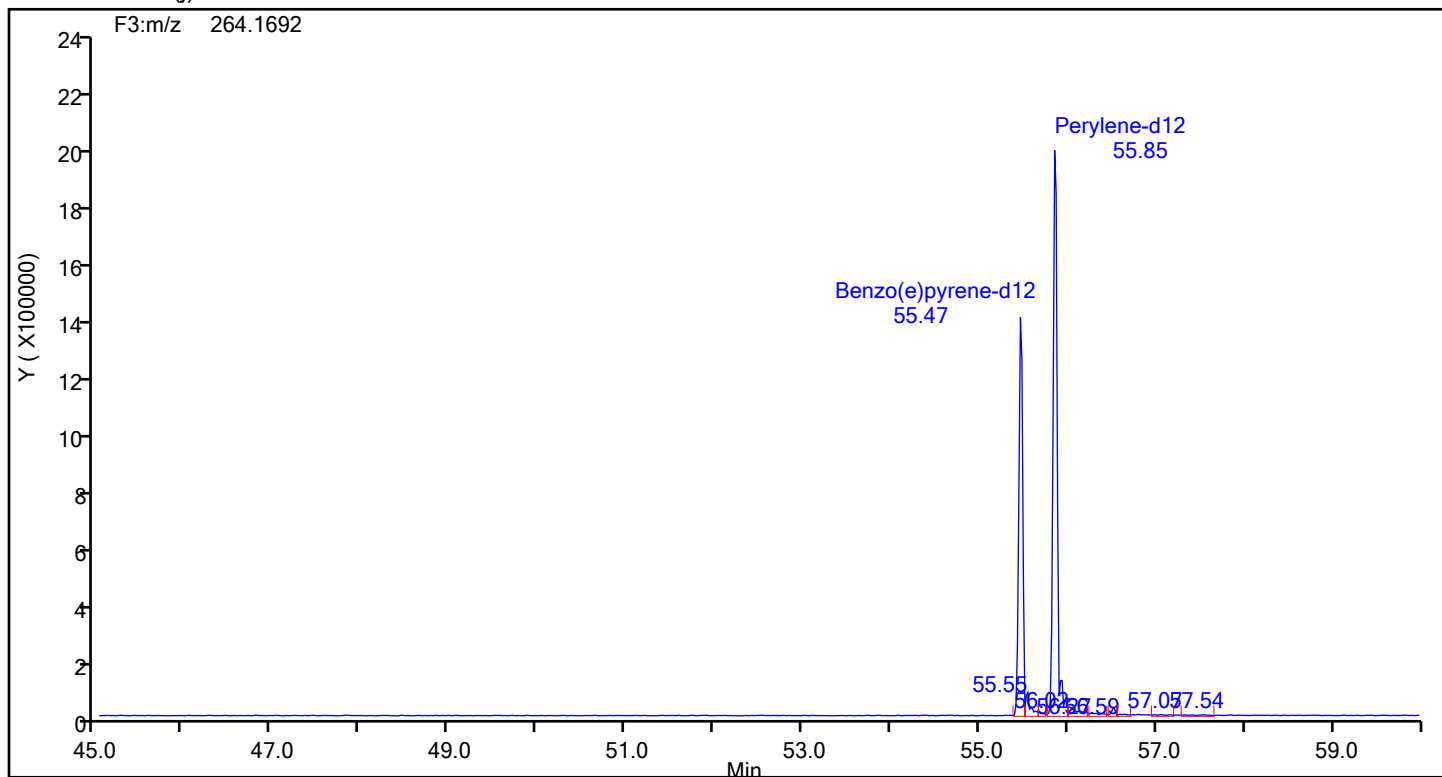
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Injection Date: 25-Jun-2024 02:53:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d

Injection Date: 25-Jun-2024 02:53:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 6 COMBINED

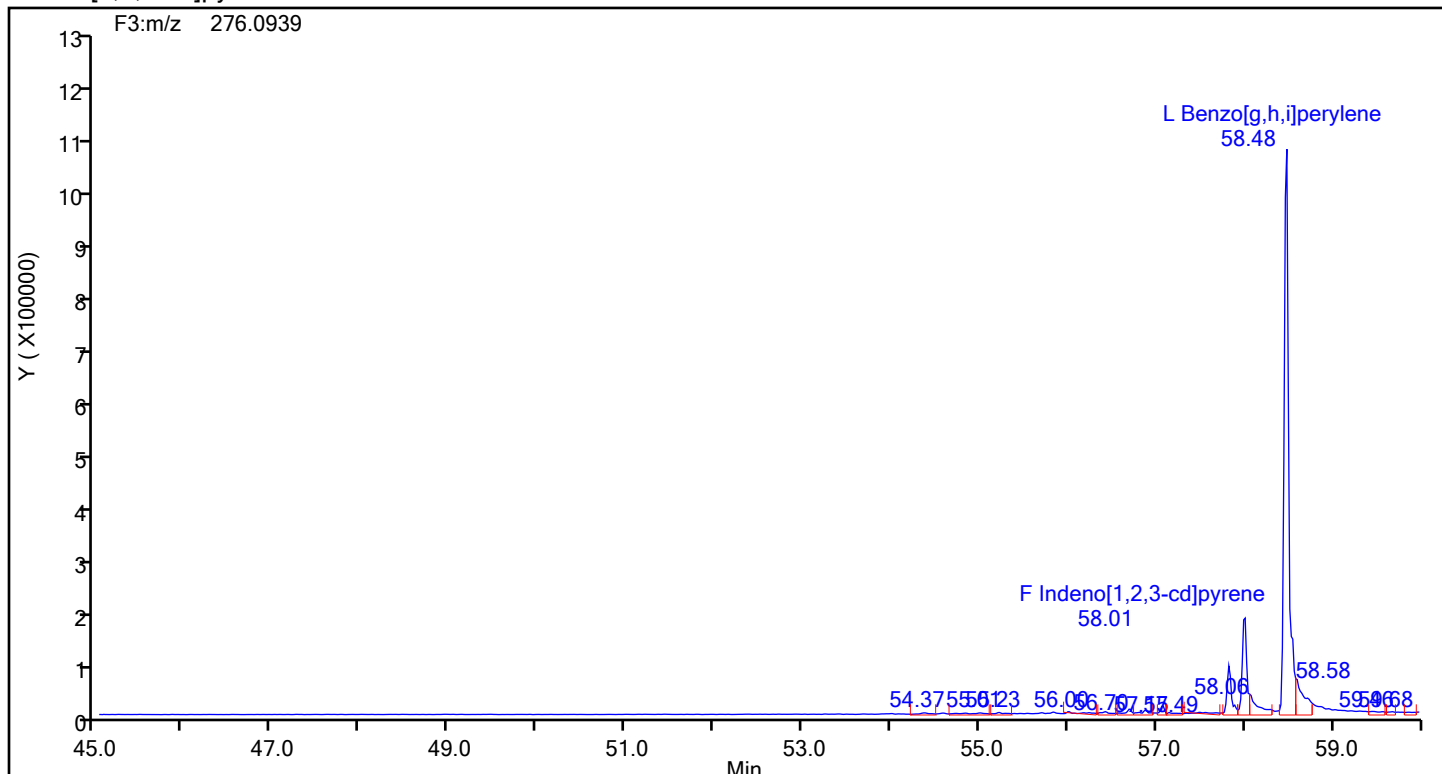
Worklist#: 88048

Sample Line#: 7

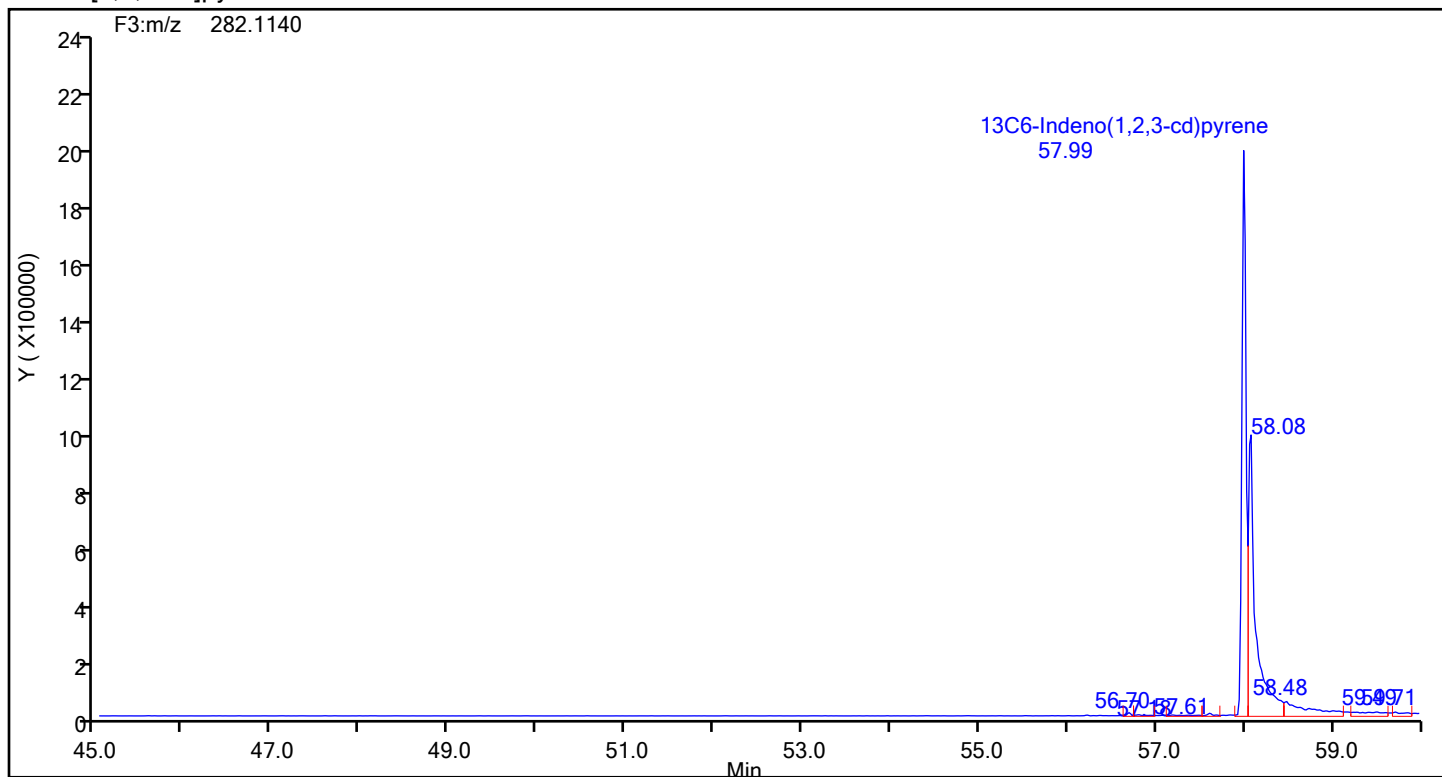
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

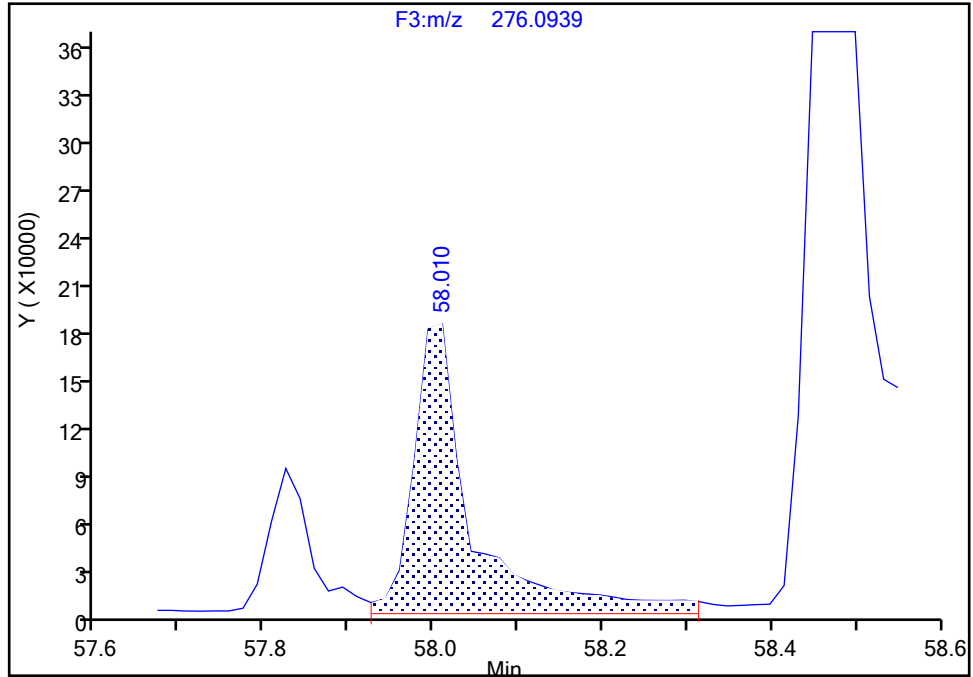
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Injection Date: 25-Jun-2024 02:53:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-6-D Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

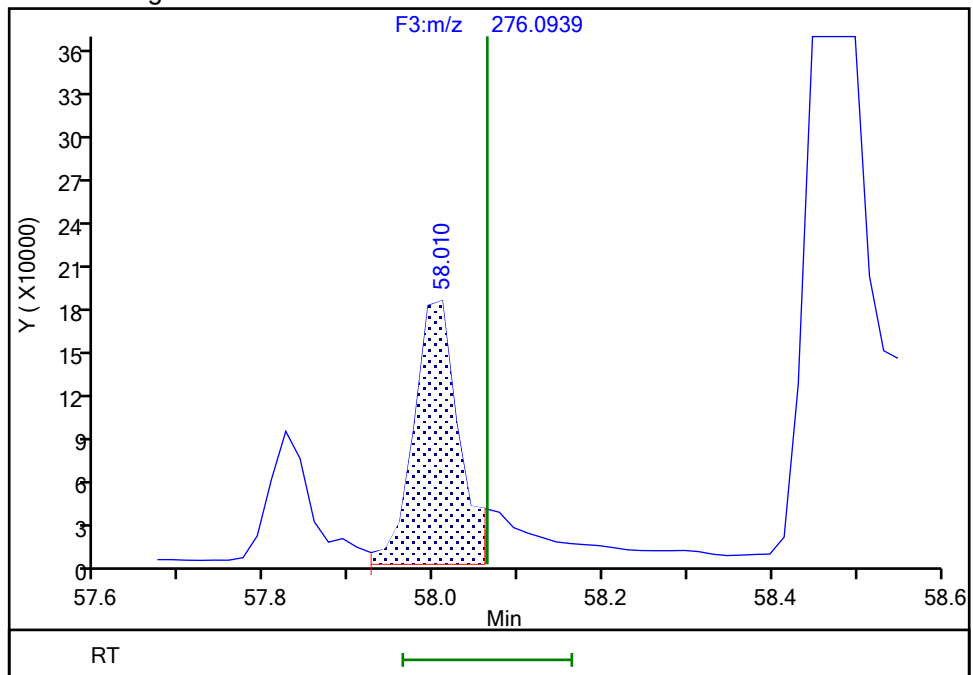
RT: 58.01
Area: 889221
Amount: 12.312951
Amount Units: pg/ul

Processing Integration Results



RT: 58.01
Area: 679575
Amount: 9.410005
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:30:13 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

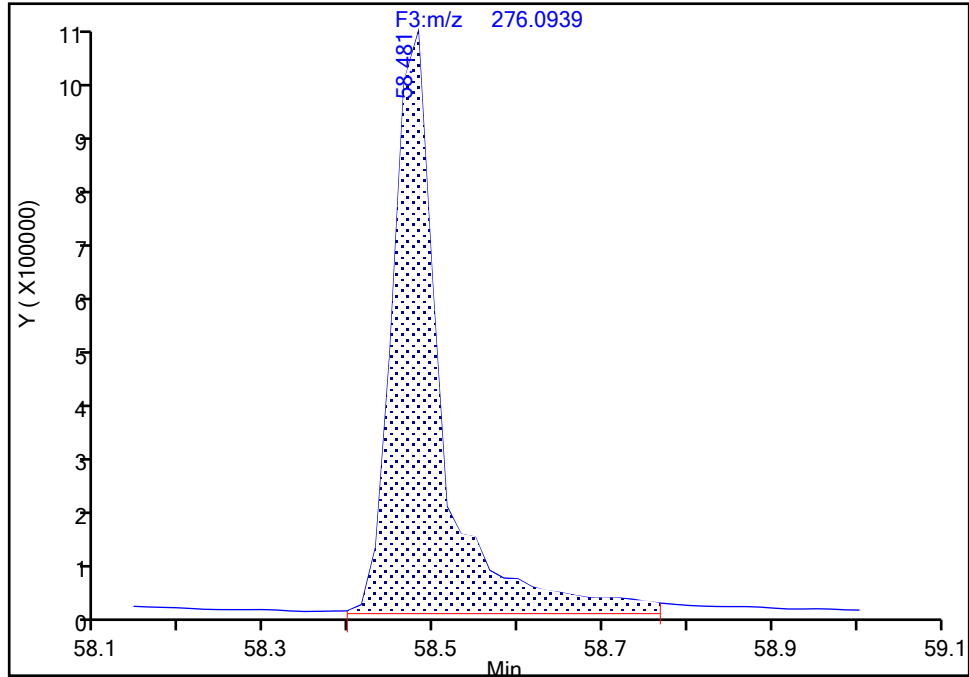
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Injection Date: 25-Jun-2024 02:53:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-6-D Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

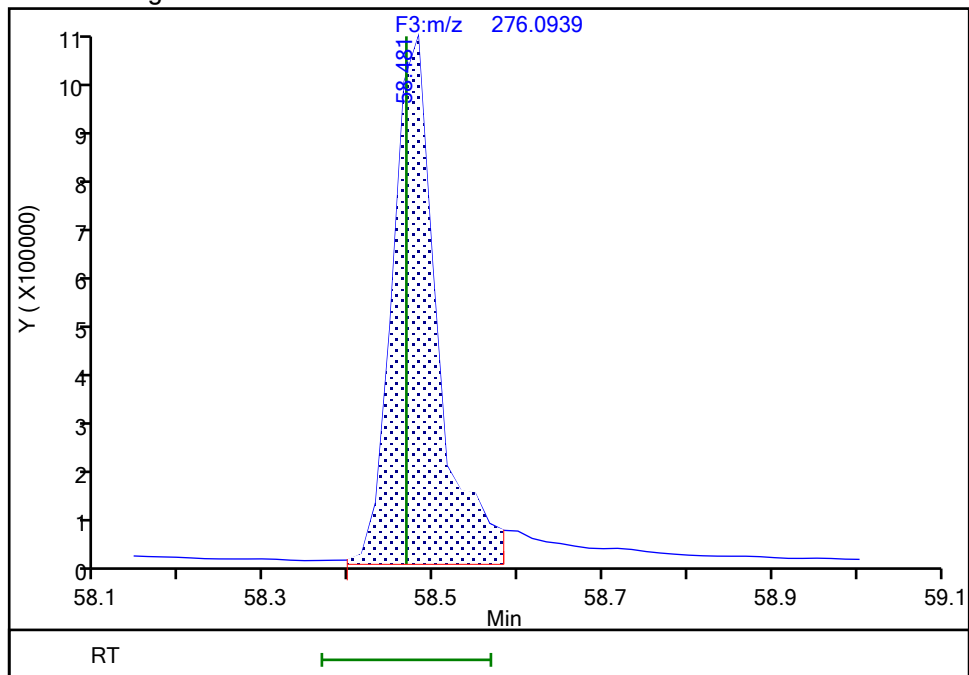
RT: 58.48
Area: 4337166
Amount: 42.883482
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 3949807
Amount: 39.053492
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:30:48 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

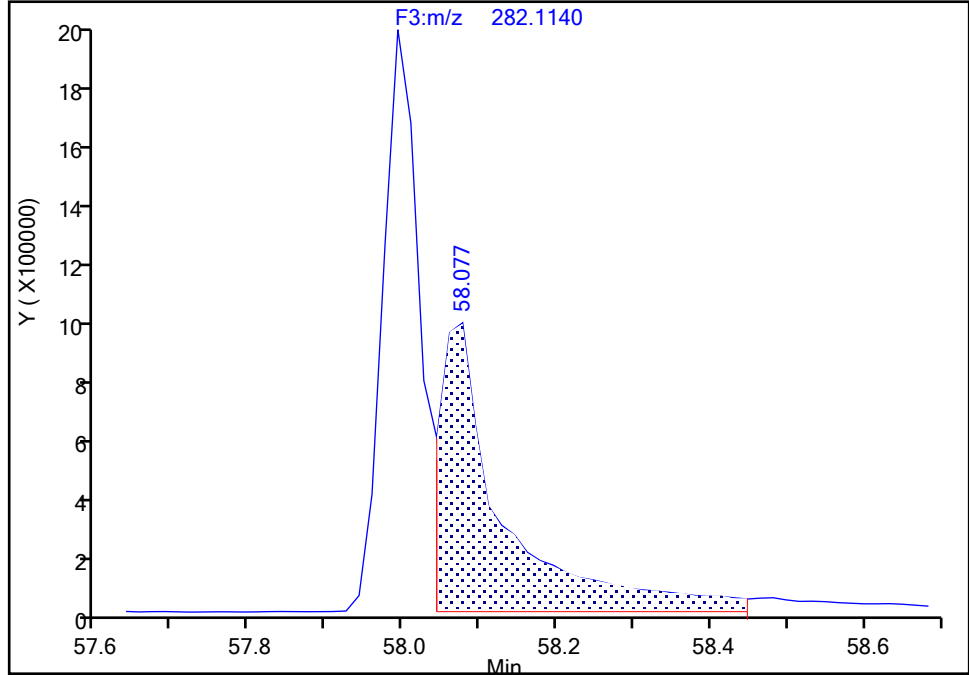
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Injection Date: 25-Jun-2024 02:53:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-6-D Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

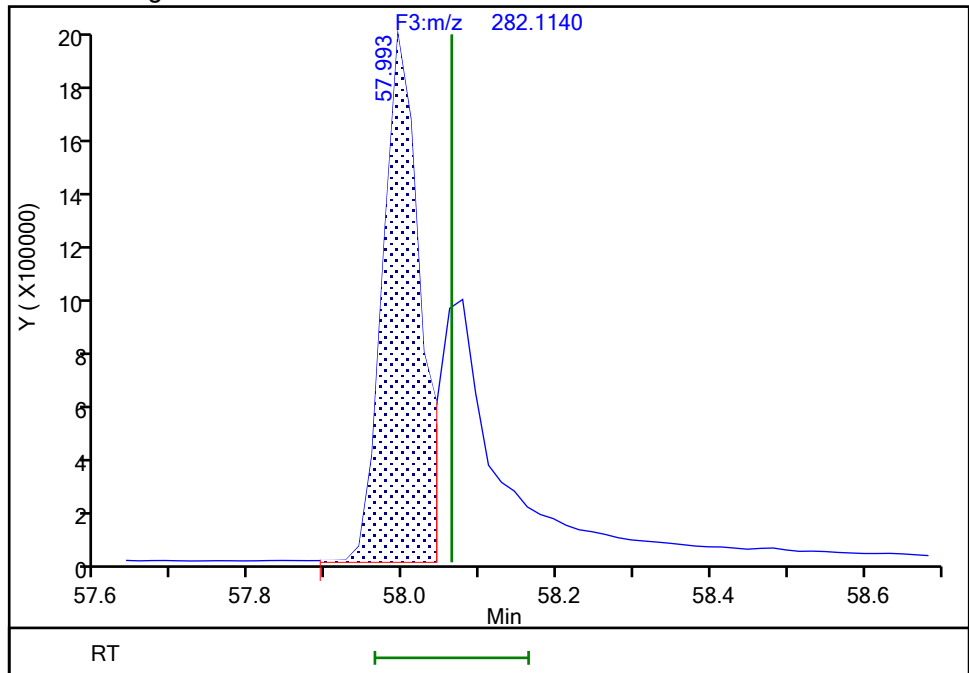
RT: 58.08
Area: 5454953
Amount: 63.605474
Amount Units: pg/ul

Processing Integration Results



RT: 57.99
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Amount: 74.854971
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:30:05 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

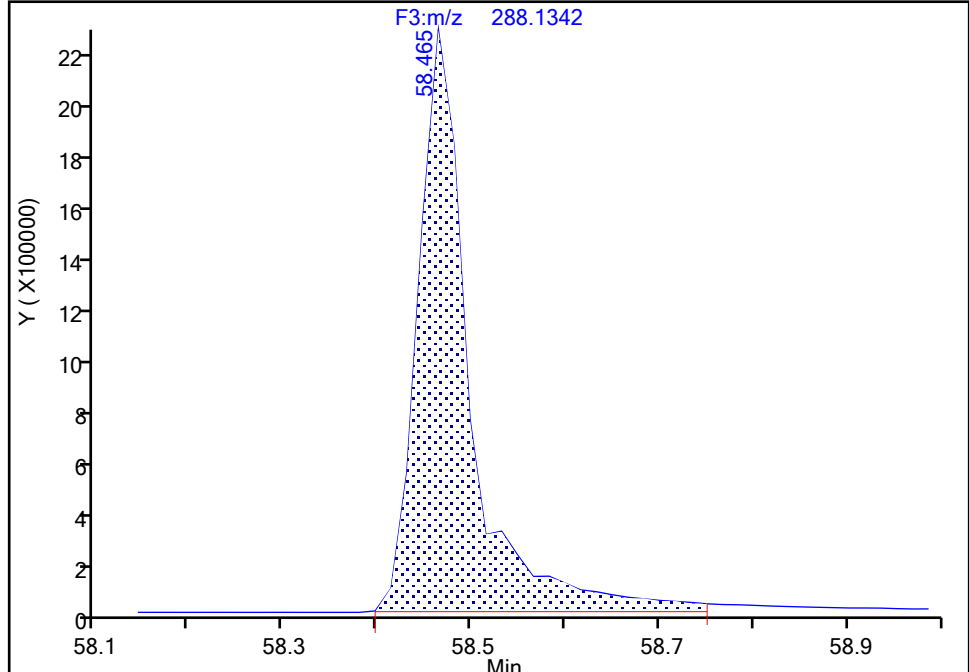
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Injection Date: 25-Jun-2024 02:53:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-6-D Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

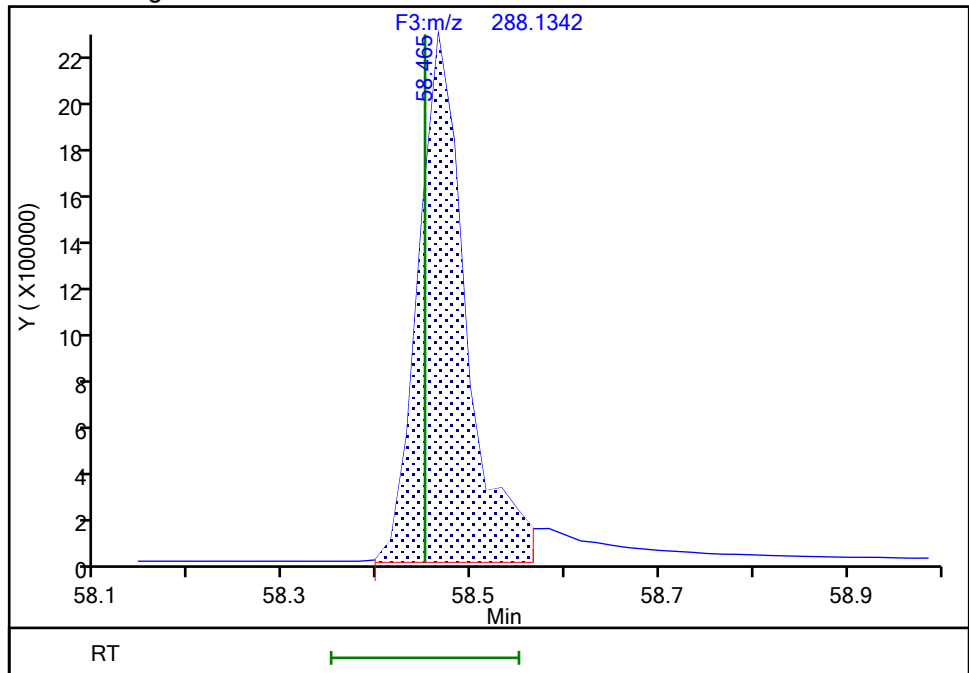
RT: 58.46
Area: 8611415
Amount: 80.481180
Amount Units: pg/ul

Processing Integration Results



RT: 58.46
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Amount: 73.629759
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:30:44 -04:00:00 (UTC)

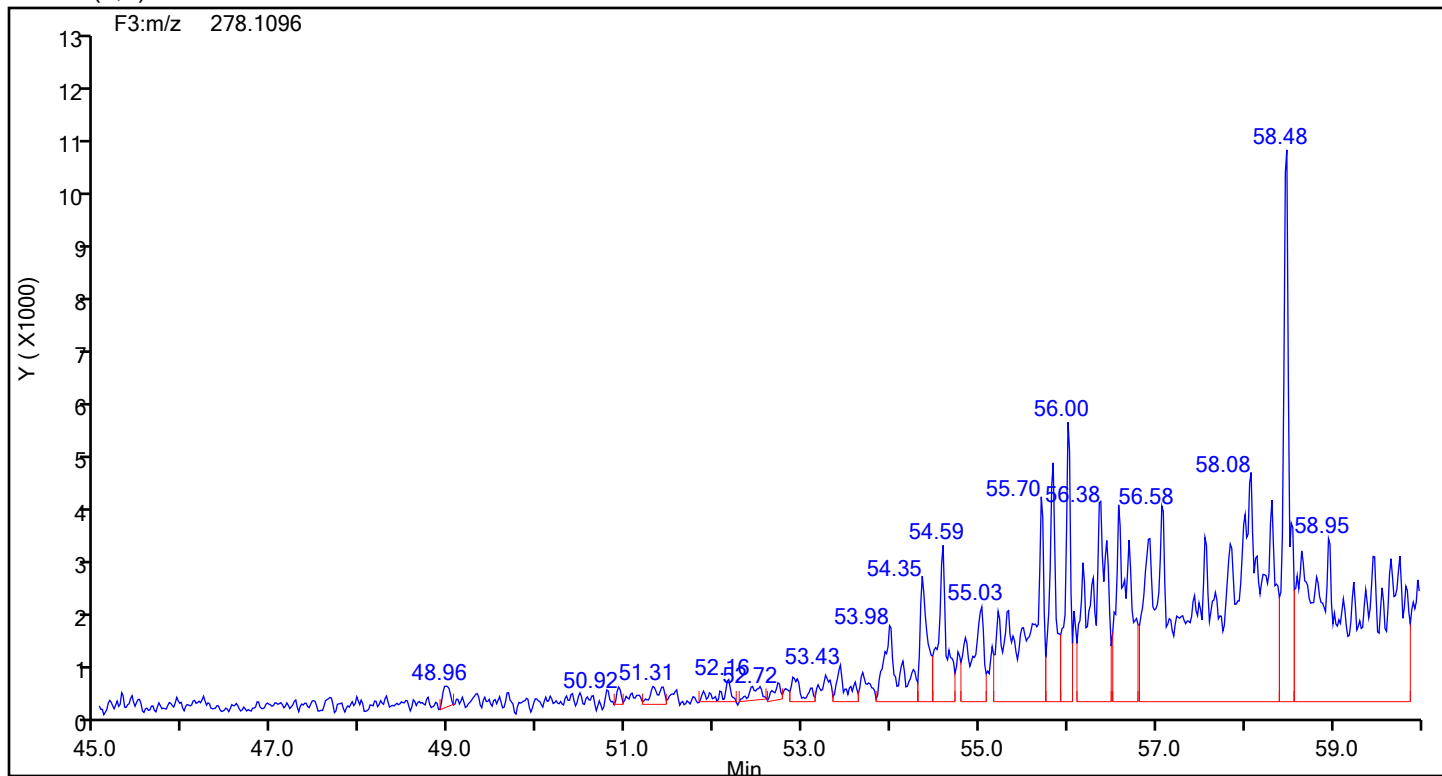
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

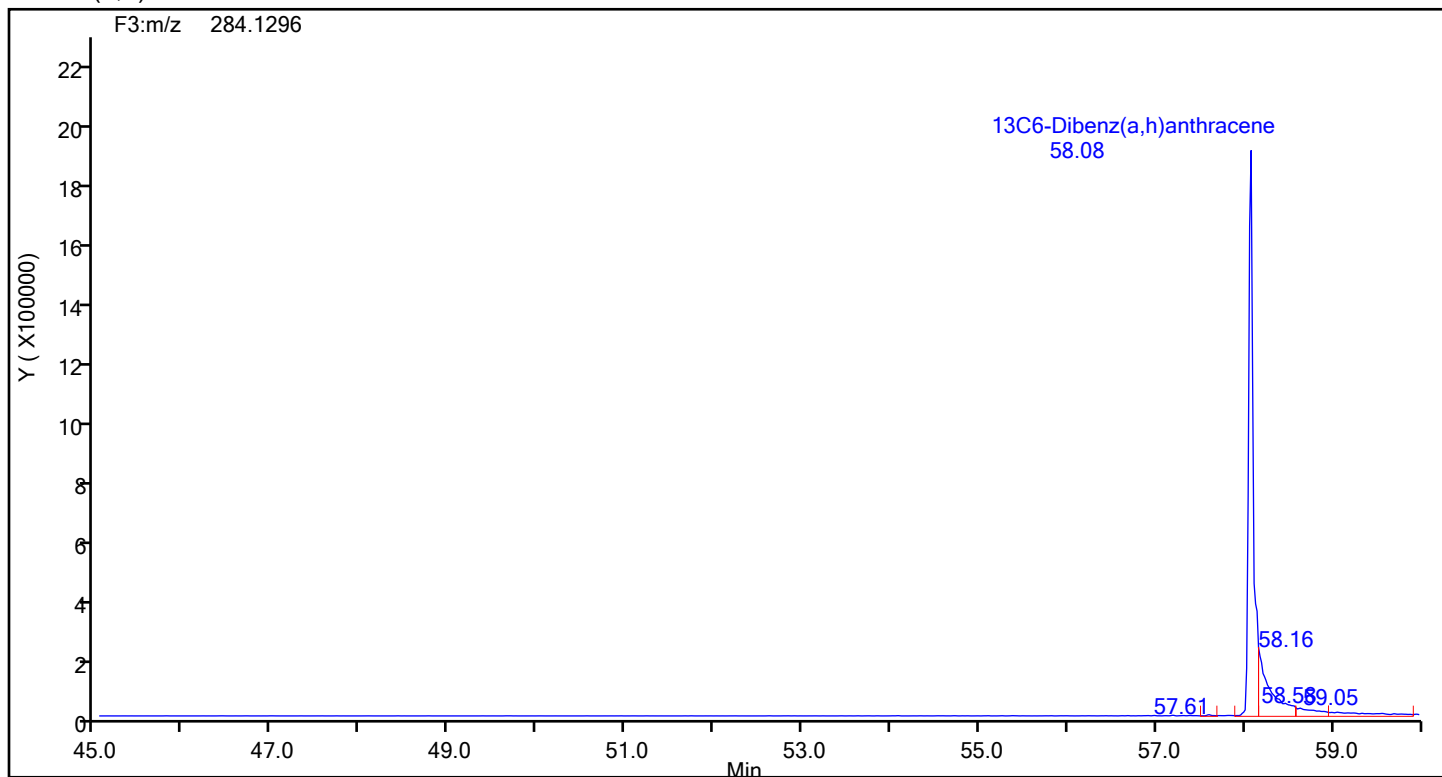
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Injection Date: 25-Jun-2024 02:53:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 88048 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

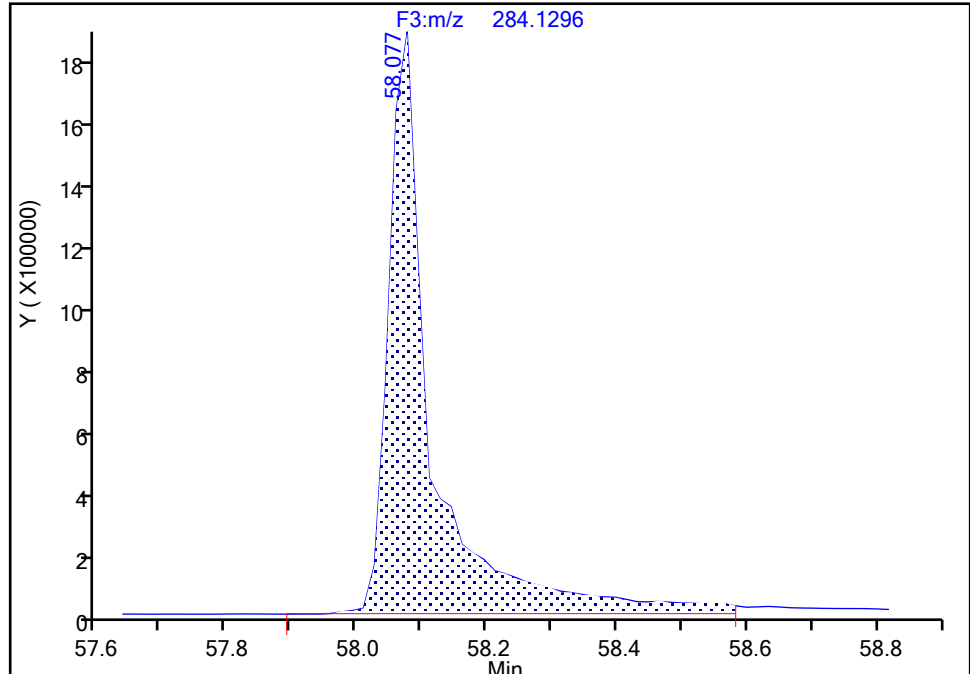
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Injection Date: 25-Jun-2024 02:53:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-6-D Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

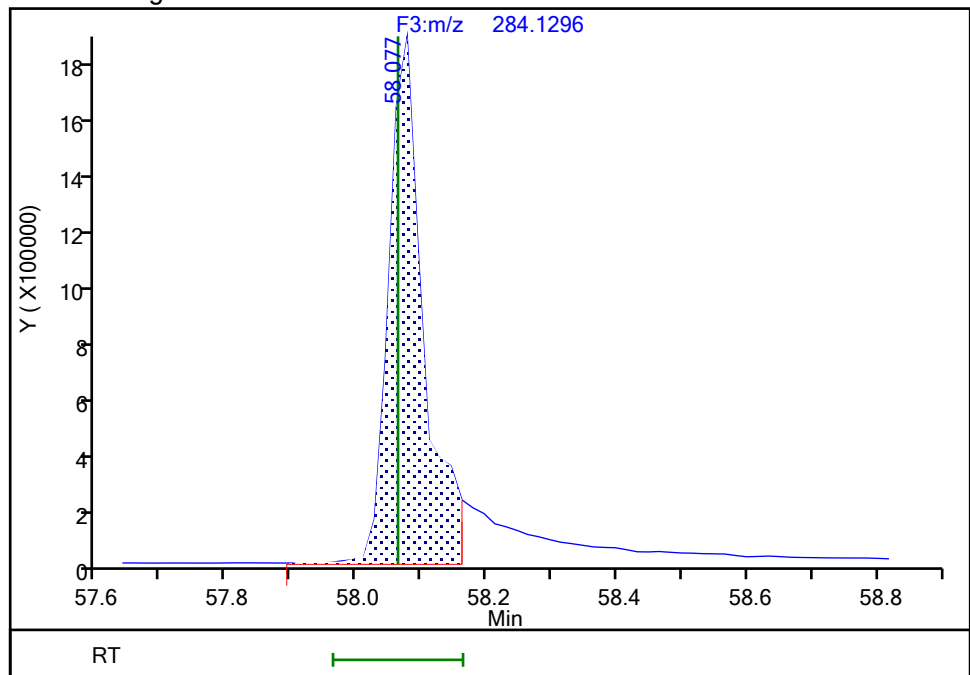
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Area: 8949696
Amount: 101.0491
Amount Units: pg/ul

Processing Integration Results



RT: 58.08
Area: 7092592
Amount: 80.080947
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:30:20 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-6-d.d
Lims ID: 140-36689-A-6-D
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Sample Type: Client
Inject. Date: 25-Jun-2024 02:53:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033236-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 25-Jun-2024 11:33:39 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: F9EE

Date: 25-Jun-2024 11:30:53

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	8.74	87.38
13C6-Benzo(c)fluorene	66.7	56.8	85.19
13C12-Benzo(j)fluoranthene	66.7	54.0	81.05

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 7</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-7-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/10/2024 13:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/25/2024 03:58</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88048</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	189	B	75.0	75.0	0.642
91-57-6	2-Methylnaphthalene	134	B	75.0	75.0	0.0925
208-96-8	Acenaphthylene	14.8	B	3.00	3.00	0.273
83-32-9	Acenaphthene	49.0	B	30.0	30.0	0.181
86-73-7	Fluorene	130	B	30.0	30.0	0.315
85-01-8	Phenanthrene	435	B	6.00	6.00	0.246
120-12-7	Anthracene	56.4	B	30.0	30.0	0.214
206-44-0	Fluoranthene	103	B	6.00	6.00	0.125
129-00-0	Pyrene	88.2	B	6.00	6.00	0.140
56-55-3	Benzo[a]anthracene	4.40	J B	6.00	6.00	0.0436
218-01-9	Chrysene	19.9	B	6.00	6.00	0.0428
205-99-2	Benzo[b]fluoranthene	10.1	J B	30.0	30.0	0.0222
207-08-9	Benzo[k]fluoranthene	2.72	J B	6.00	6.00	0.0206
192-97-2	Benzo[e]pyrene	18.8	B	6.00	6.00	0.0205
50-32-8	Benzo[a]pyrene	3.78	B	3.00	3.00	0.0204
198-55-0	Perylene	1.29	J B	3.00	3.00	0.0192
193-39-5	Indeno[1,2,3-cd]pyrene	7.80	B	3.00	3.00	0.0226
53-70-3	Dibenz(a,h)anthracene	0.241	J B	6.00	6.00	0.00999
191-24-2	Benzo[g,h,i]perylene	38.6	B	6.00	6.00	0.0175

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 7</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-7-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/10/2024 13:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/25/2024 03:58</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88048</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	50		20-130
STL03357	13C6-2-Methylnaphthalene	58		20-130
189811-56-1	13C6-Acenaphthylene	73		20-130
189811-57-2	13C6-Acenaphthene	73		20-130
STL00616	13C6-Fluorene	87		20-130
1397194-60-3	13C6-Fluoranthrene	80		20-130
1397214-90-2	13C3-Pyrene	71		20-130
917378-11-1	13C6-Benzo (a) anthracene	67		20-130
1397177-72-8	13C6-Chrysene	66		20-130
STL03358	13C6-Benzo (b) fluoranthene	89		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	91		20-130
STL03382	13C4-Benzo (e) pyrene	77		20-130
STL03359	13C4-Benzo (a) pyrene	82		20-130
1520-96-3	Perylene-d12	78		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	93		20-130
STL03360	13C6-Dibenz (a,h) anthracene	91		20-130
350820-11-0	13C12-Benzo (ghi) perylene	84		20-130
189811-60-7	13C6-Anthracene	108		20-130
1189955-53-0	13C6-Phenanthrene	92		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
 Lims ID: 140-36689-A-7-D
 Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
 Sample Type: Client
 Inject. Date: 25-Jun-2024 03:58:00 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033236-008
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 26-Jun-2024 02:52:31 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1677

First Level Reviewer: F9EE

Date: 25-Jun-2024 11:33:39

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:31	6445108		3.3746	50.2	50.2	0.008226	0.008226	50.21	
Naphthalene	11:31	10451023		1.2893	125.8	125.8	0.4279	0.4279		
D 13C6-2-Methylnaphthalene	13:51	3545919		1.6031	58.1	58.1	0.004190	0.004190	58.15	
2-Methylnaphthalene	13:51	4039305		1.2786	89.1	89.1	0.0617	0.0617		
D 13C6-Acenaphthylene	16:43	4609552		1.6520	73.4	73.4	0.009802	0.009802	73.35	
Acenaphthylene	16:44	631002		2.3661	9.863	9.863	0.1819	0.1819		
* Acenaphthene-d10	17:18	1901960		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:25	2703985		0.9792	72.6	72.6	0.0141	0.0141	72.60	
Acenaphthene	17:26	1120426		1.2697	32.6	32.6	0.1208	0.1208		
Fluorene	19:43	3202942		1.2532	86.7	86.7	0.2098	0.2098		
D 13C6-Fluorene	19:43	2948410		0.8898	87.1	87.1	0.0344	0.0344	87.11	
D 13C6-Phenanthrene	25:06	5738852		0.5724	92.1	92.1	0.0106	0.0106	92.09	
Phenanthrene	25:06	18373773		1.1044	289.9	289.9	0.1641	0.1641		
\$ Anthracin-d10	25:19	264634		0.4257	5.710	5.710	0.008451	0.008451	57.10	a
D 13C6-Anthracene	25:26	5293955		0.4523	107.5	107.5	0.0135	0.0135	108	
Anthracene	25:26	2704250		1.3586	37.6	37.6	0.1428	0.1428		
D 13C6-Fluoranthrene	33:51	10397337		1.1994	79.6	79.6	0.0281	0.0281	79.63	
Fluoranthene	33:52	8203954		1.1513	68.5	68.5	0.0832	0.0832		
* Pyrene-d10	35:24	5443459		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:32	10469859		1.3512	71.2	71.2	0.0176	0.0176	71.17	
Pyrene	35:33	6559021		1.0652	58.8	58.8	0.0934	0.0934		
\$ 13C6-Benzo(c)fluorene	39:15	3554506		0.5136	63.6	63.6	0.0135	0.0135	95.36	
D 13C6-Benzo(a)anthracene	46:04	8587911		1.5189	66.9	66.9	0.0136	0.0136	66.89	
Benzo[a]anthracene	46:05	245144		0.9739	2.931	2.931	0.0290	0.0290		
D 13C6-Chrysene	46:21	9043556		1.6287	65.7	65.7	0.0127	0.0127	65.69	
Chrysene	46:21	1176227		0.9815	13.3	13.3	0.0285	0.0285		
D 13C6-Benzo(b)fluoranthene	54:38	11029945		1.4621	89.3	89.3	0.007361	0.007361	89.25	
Benzo[b]fluoranthene	54:38	833446		1.1249	6.717	6.717	0.0148	0.0148		
\$ 13C12-Benzo(j)fluoranthene	54:40	6829877		1.3558	59.6	59.6	0.0193	0.0193	89.40	
D 13C6-Benzo(k)fluoranthene	54:45	13414015		1.7507	90.7	90.7	0.006147	0.006147	90.65	
Benzo[k]fluoranthene	54:45	274438		1.1271	1.815	1.815	0.0137	0.0137		
* Benzo(e)pyrene-d12	55:29	4226184		5.7E+04	50.0	50.0				
D 13C4-Benzo(e)pyrene	55:34	10635120		1.6368	76.9	76.9	0.0159	0.0159	76.87	
Benzo[e]pyrene	55:34	1337151		1.0013	12.6	12.6	0.0136	0.0136		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[a]pyrene	55:42	303153		1.1130	2.522	2.522	0.0136	0.0136		
D 13C4-Benzo(a)pyrene	55:42	10798911		1.5508	82.4	82.4	0.0168	0.0168	82.39	
D Perylene-d12	55:52	7827848		1.1917	77.7	77.7	0.0211	0.0211	77.71	
Perylene	55:52	96523		1.4307	0.8619	0.8619	0.0128	0.0128		Ma
D 13C6-Indeno(1,2,3-cd)pyrene	58:00	8033448		1.0218	93.0	93.0	0.0152	0.0152	93.01	M
Indeno[1,2,3-cd]pyrene	58:00	469947		1.1249	5.200	5.200	0.0151	0.0151		M
D 13C6-Dibenz(a,h)anthracene	58:05	8107767		1.0553	90.9	90.9	0.008172	0.008172	90.90	M
Dibenz(a,h)anthracene	58:05	14731		1.1314	0.1606	0.1606	0.006658	0.006658		M
D 13C12-Benzo(ghi)perylene	58:29	9066338		1.2749	84.1	84.1	0.005367	0.005367	84.14	M
Benzo[g,h,i]perylene	58:29	2996360		1.2838	25.7	25.7	0.0117	0.0117		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Lims ID: 140-36689-A-7-D
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Sample Type: Client
Inject. Date: 25-Jun-2024 03:58:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033236-008
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 26-Jun-2024 02:52:31 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1677

First Level Reviewer: F9EE

Date: 25-Jun-2024 11:33:39

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:31	11:28	0	0.666	6445108	2232794	149	372	14985		
Naphthalene											
128.0626	11:31	11:28	-1	1.000	10451023	3596096	4927	12317	730		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:50	0	0.800	3545919	1616341	36	90	44898		
2-Methylnaphthalene											
142.0783	13:51	13:51	-1	1.000	4039305	1892293	510	1275	3710		
13C6-Acenaphthylene											
158.0828	16:43	16:43	-1	0.966	4609552	1674317	87	217	19245		
Acenaphthylene											
152.0626	16:44	16:44	0	1.000	631002	205765	1624	4060	127		
Acenaphthene-d10											
164.1404	17:18	17:18	0		1901960	670022	71	177	9437		
13C6-Acenaphthene											
160.0984	17:25	17:25	-1	1.007	2703985	943253	74	185	12747		
Acenaphthene											
154.0783	17:26	17:25	0	1.001	1120426	369790	579	1447	639		
Fluorene											
166.0783	19:43	19:42	-1	1.000	3202942	959306	961	2402	998		
13C6-Fluorene											
172.0984	19:43	19:43	-1	1.139	2948410	913456	164	410	5570		
13C6-Phenanthrene											
184.0984	25:06	25:06	-1	0.709	5738852	1346253	51	127	26397		
Phenanthrene											
178.0783	25:06	25:06	-1	1.000	18373773	4268969	976	2440	4374		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											a
188.1410	25:19	25:19	-1	0.715	264634	59055	30	75	1969		a
13C6-Anthracene											
184.0984	25:26	25:25	0	0.718	5293955	1257258	51	127	24652		E
Anthracene											
178.0783	25:26	25:27	-1	1.000	2704250	598922	976	2440	614		
13C6-Fluoranthrene											
208.0984	33:51	33:50	0	0.956	10397337	2036213	281	702	7246		
Fluoranthene											
202.0783	33:52	33:52	0	1.000	8203954	1603007	780	1950	2055		
Pyrene-d10											
212.1404	35:24	35:24	0		5443459	1042338	101	252	10320		
13C3-Pyrene											
205.0883	35:32	35:32	-1	1.004	10469859	1959088	199	497	9845		
Pyrene											
202.0783	35:33	35:32	0	1.000	6559021	1233766	780	1950	1582		
13C6-Benzo(c)fluorene											
222.1134	39:15	39:16	0	0.707	3554506	666149	58	145	11485		
13C6-Benzo(a)anthracene											
234.1140	46:04	46:03	0	1.301	8587911	1456630	232	580	6279		
Benzo[a]anthracene											
228.0939	46:05	46:05	1	1.000	245144	45529	165	412	276		
13C6-Chrysene											
234.1140	46:21	46:19	1	1.309	9043556	1472884	232	580	6349		
Chrysene											
228.0939	46:21	46:21	1	1.000	1176227	150198	165	412	910		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:38	1	0.985	11029945	2925302	121	302	24176		
Benzo[b]fluoranthene											
252.0939	54:38	54:39	1	1.000	833446	171557	195	487	880		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:41	1	0.985	6829877	1679814	294	735	5714		
13C6-Benzo(k)fluoranthene											
258.1140	54:45	54:45	1	0.987	13414015	3149172	121	302	26026		
Benzo[k]fluoranthene											
252.0939	54:45	54:46	1	1.000	274438	53032	195	487	272		
Benzo(e)pyrene-d12											
264.1692	55:29	55:28	1		4226184	1403057	282	705	4975		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:34	1	1.002	10635120	3564143	293	732	12164		
Benzo[e]pyrene											
252.0939	55:34	55:34	1	1.000	1337151	445628	195	487	2285		
Benzo[a]pyrene											
252.0939	55:42	55:38	1	1.000	303153	63768	195	487	327		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:42	55:42	1	1.004	10798911	3219486	293	732	10988		
Perylene-d12											
264.1692	55:52	55:52	1	1.007	7827848	2663697	282	705	9446		
Perylene											
252.0939	55:52	55:52	-3	1.000	96523	12043	195	487	62		Ma
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:00	58:00	-4	1.046	8033448	2356352	175	437	13465		M
Indeno[1,2,3-cd]pyrene											
276.0939	58:00	58:00	-4	1.000	469947	134628	160	400	841		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:05	58:04	1	1.047	8107767	2084291	97	242	21488		M
Dibenz(a,h)anthracene											
278.1096	58:05	58:04	1	1.000	14731	4327	63	157	69		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:28	1	1.054	9066338	2665961	77	192	34623		M
Benzo[g,h,i]perylene											
276.0939	58:29	58:28	0	1.000	2996360	830224	160	400	5189		M

QC Flag Legend

Processing Flags

Review Flags

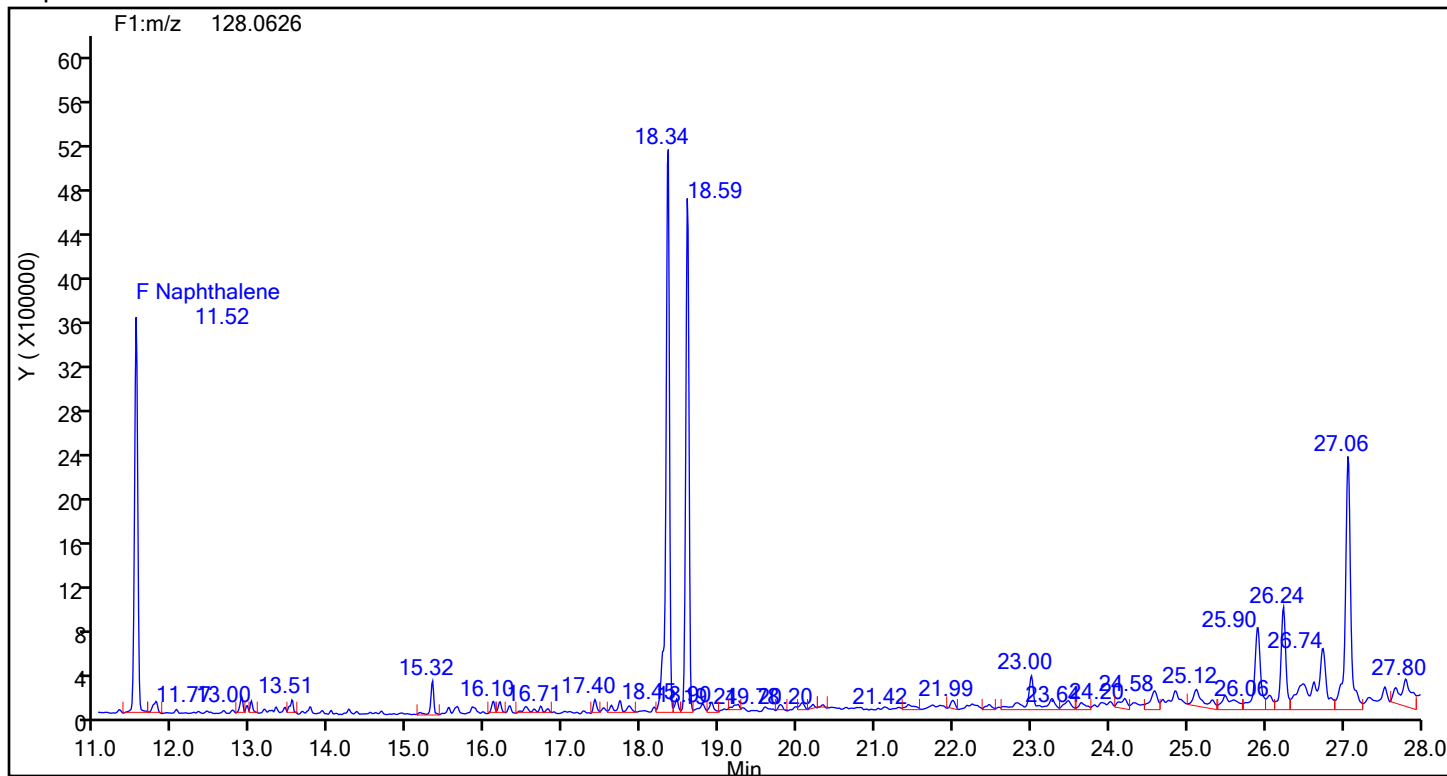
M - Manually Integrated

a - User Assigned ID

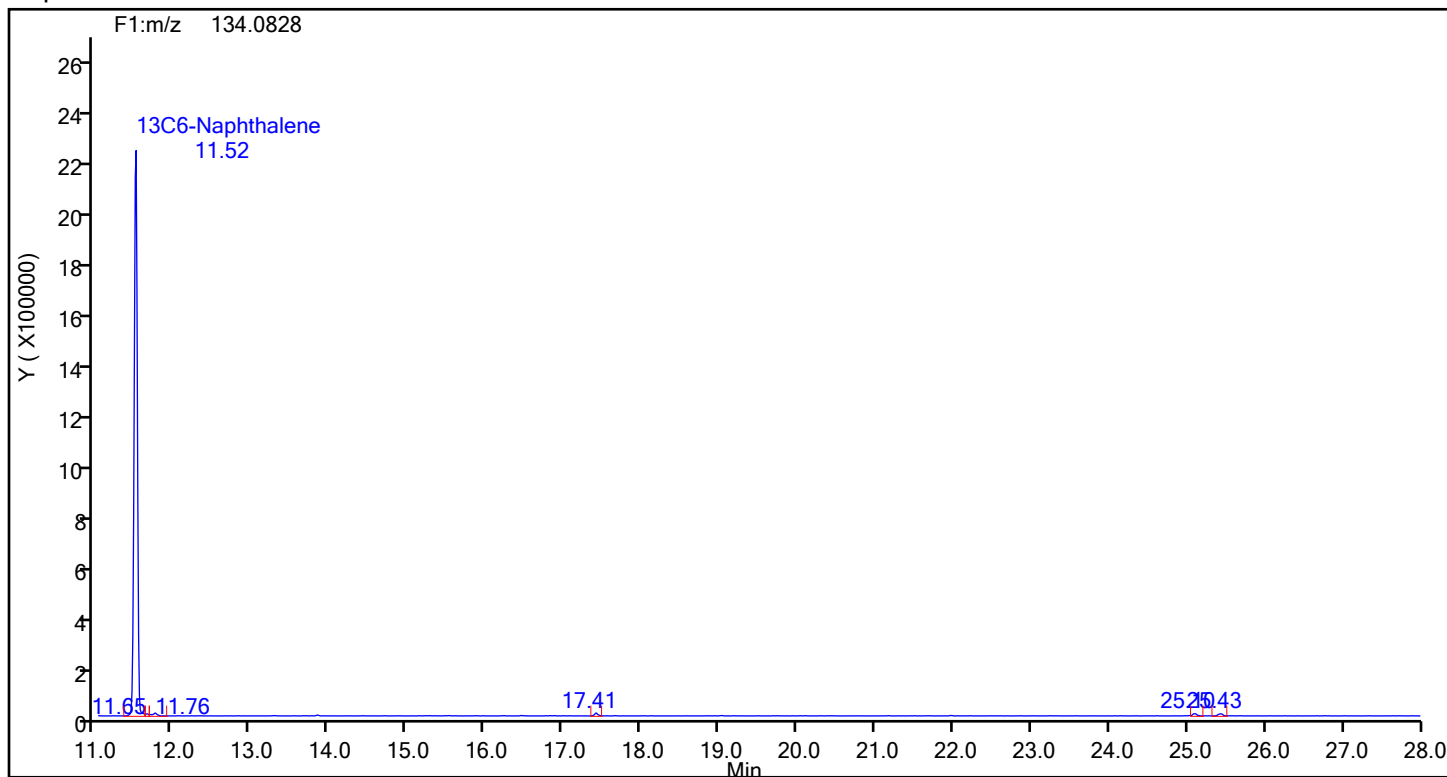
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



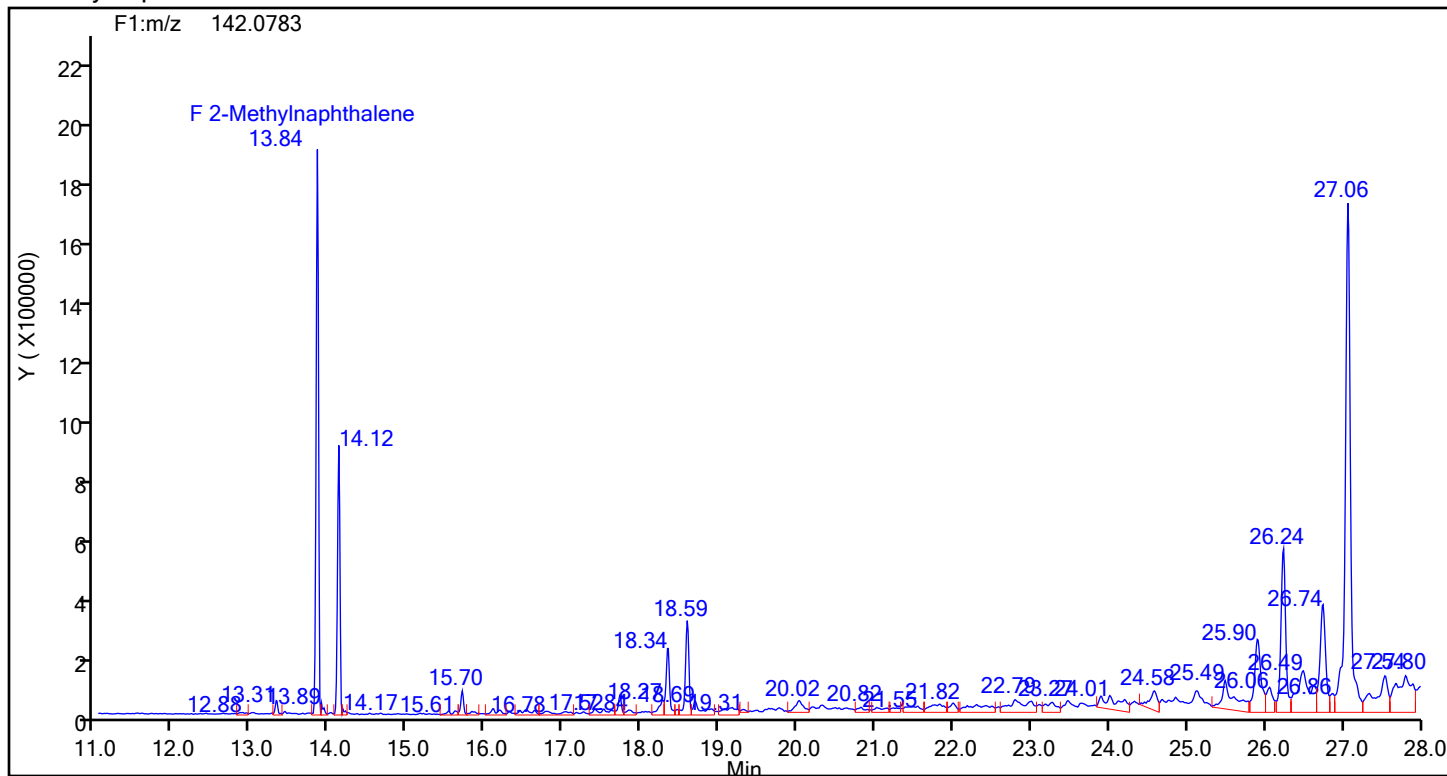
Naphthalene Standards



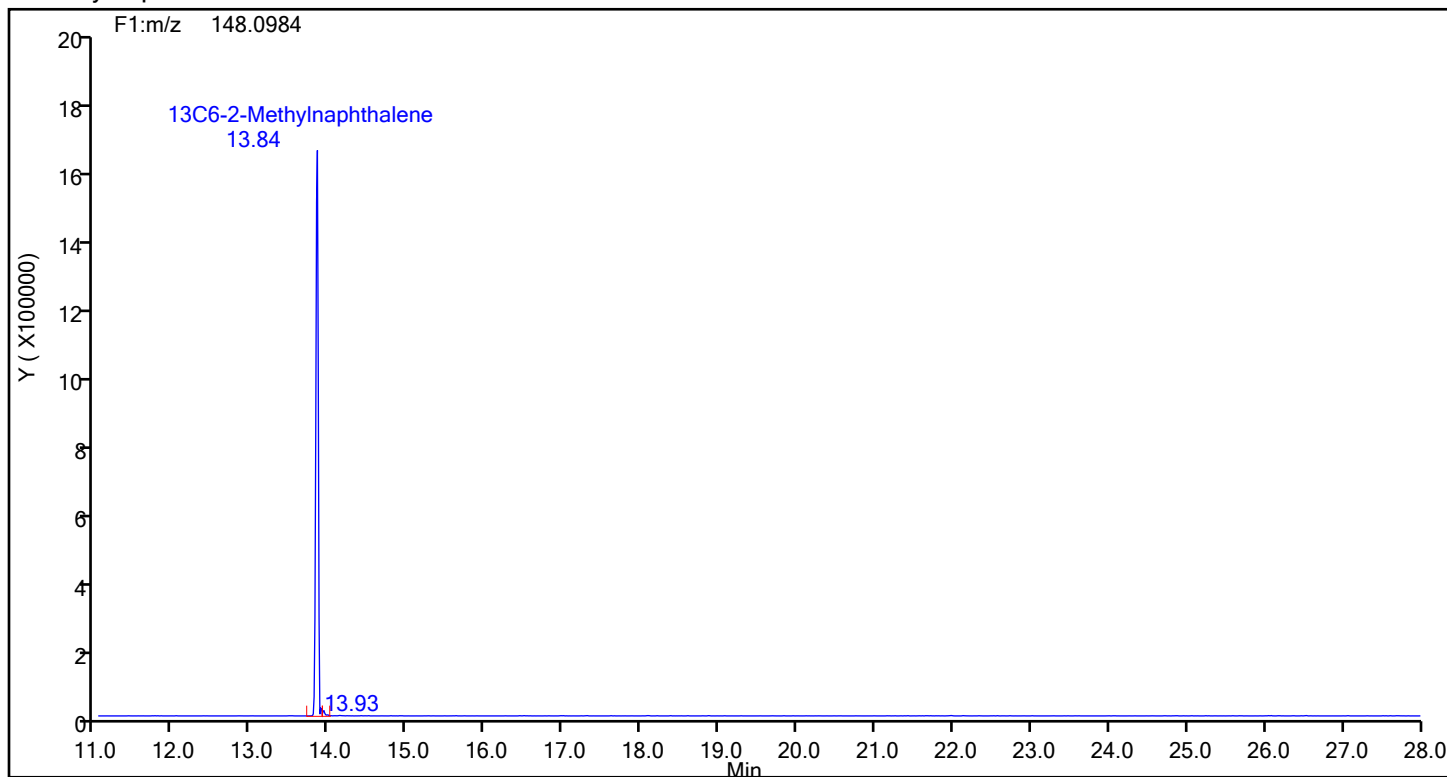
Eurofins Knoxville

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Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



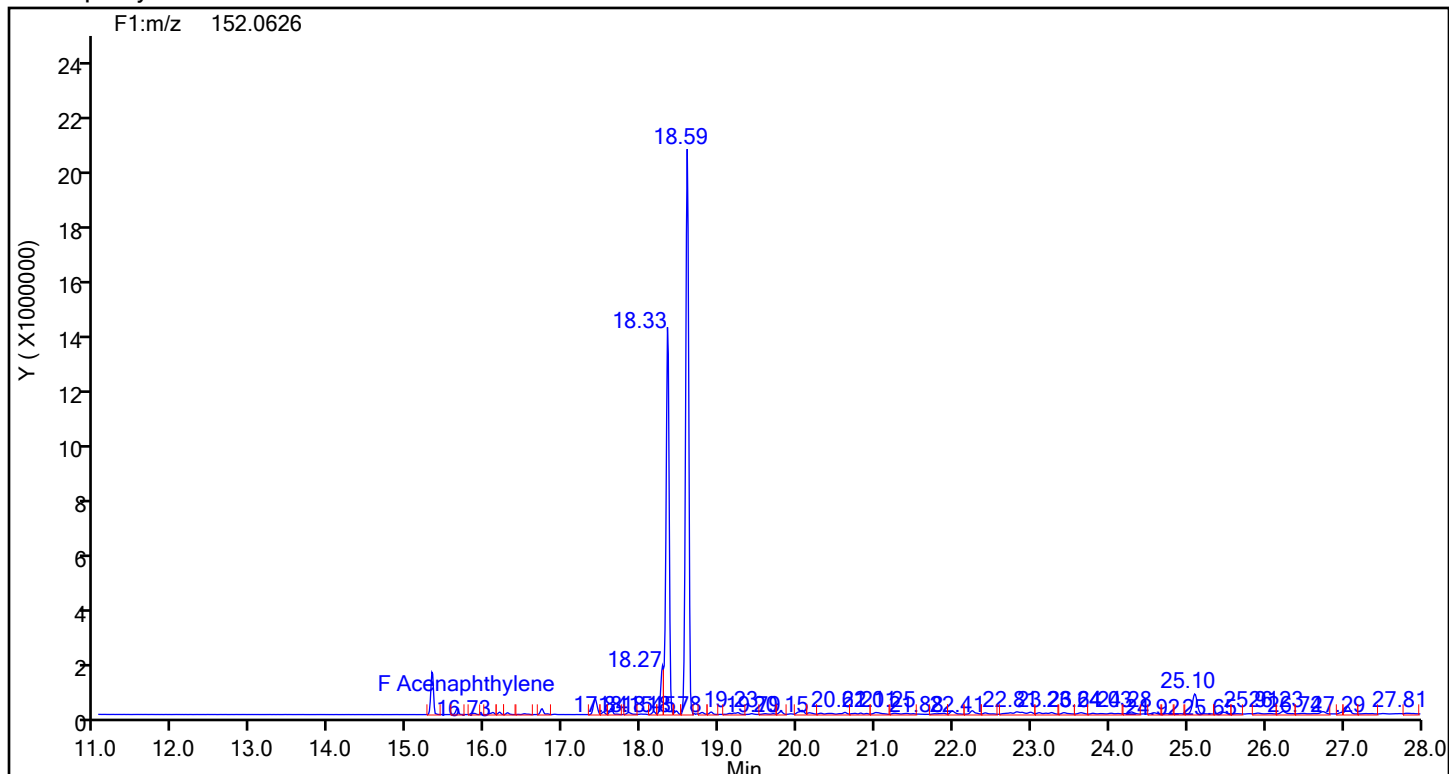
2-Methylnaphthalene Standards



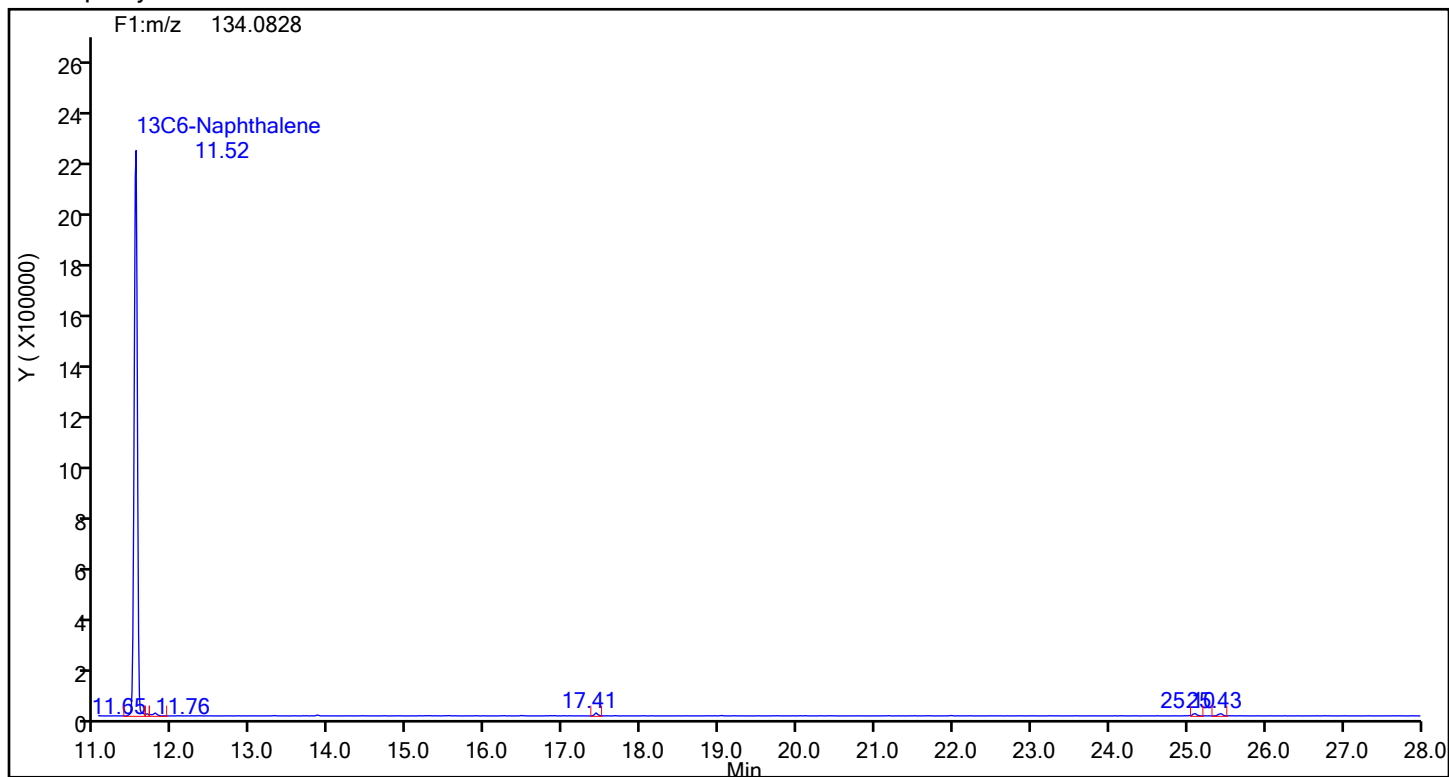
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



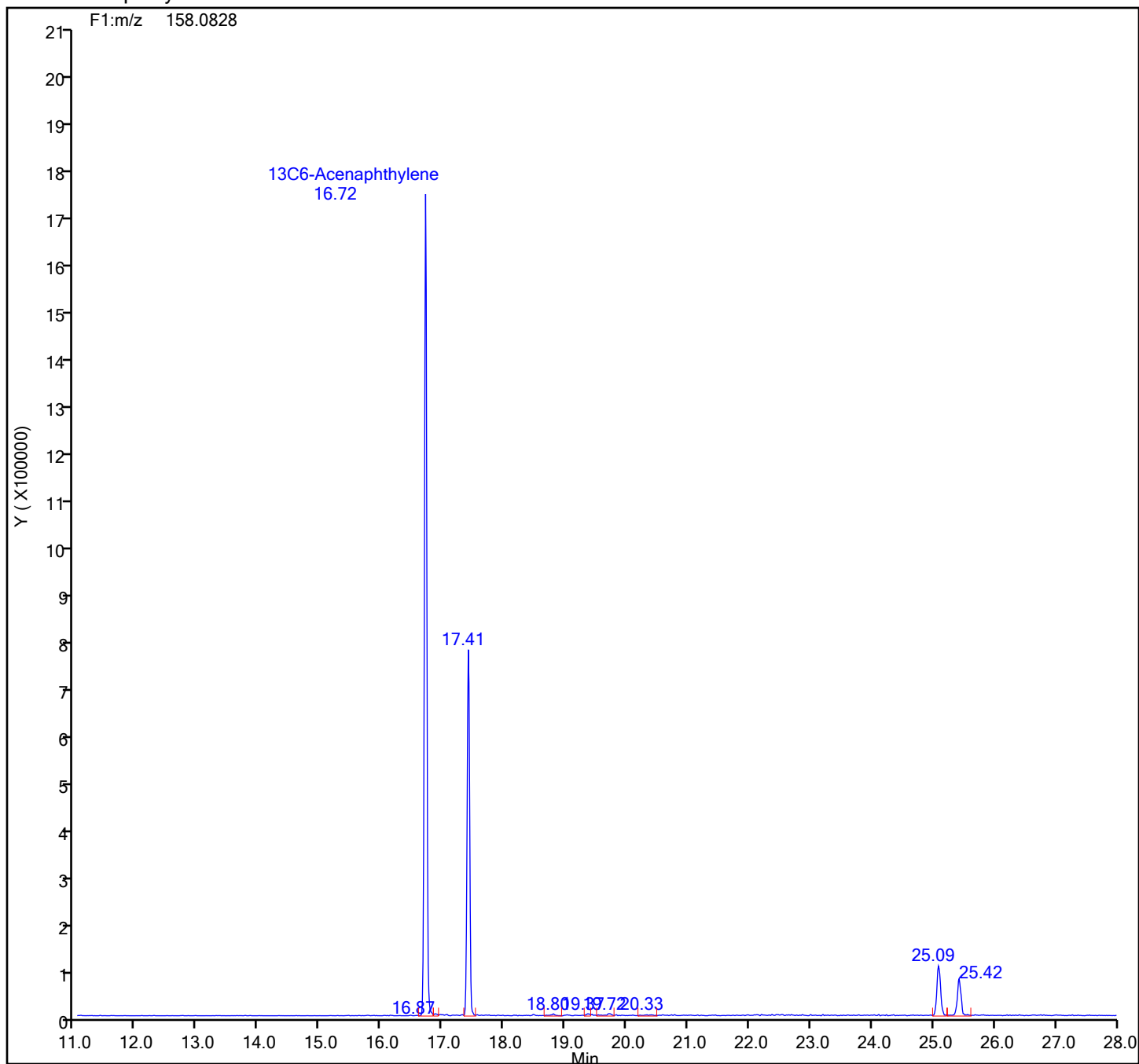
Acenaphthylene Standards



Eurofins Knoxville

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Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

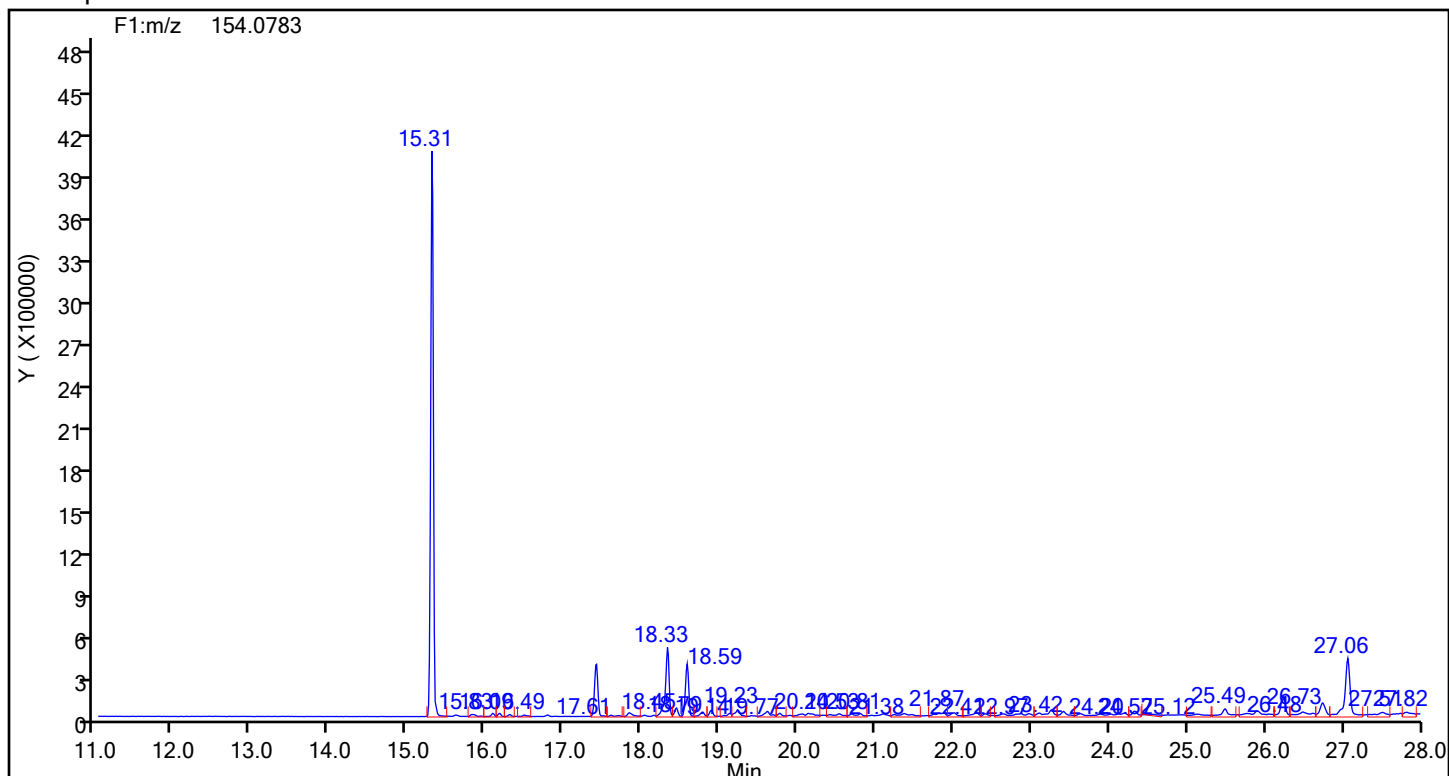
13C6-Acenaphthylene Standards



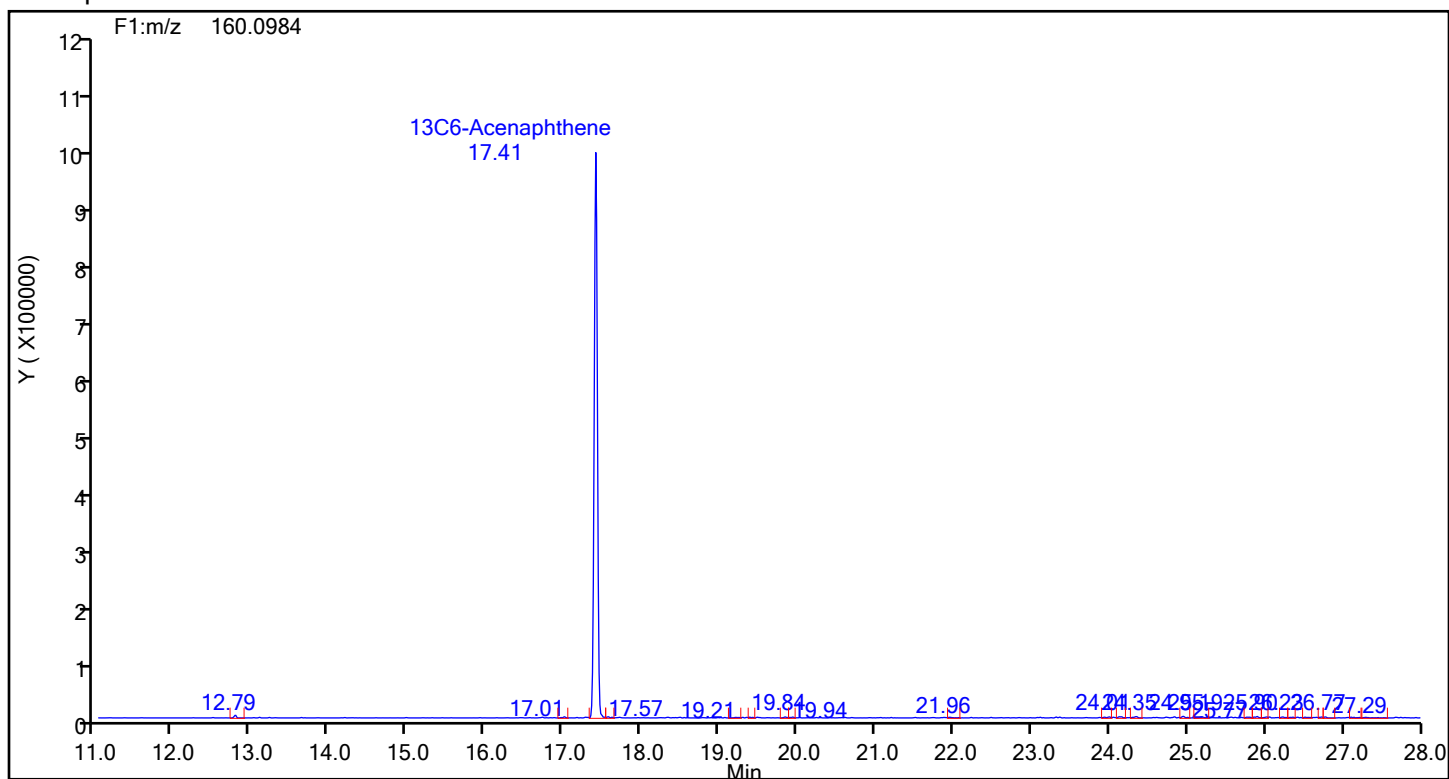
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



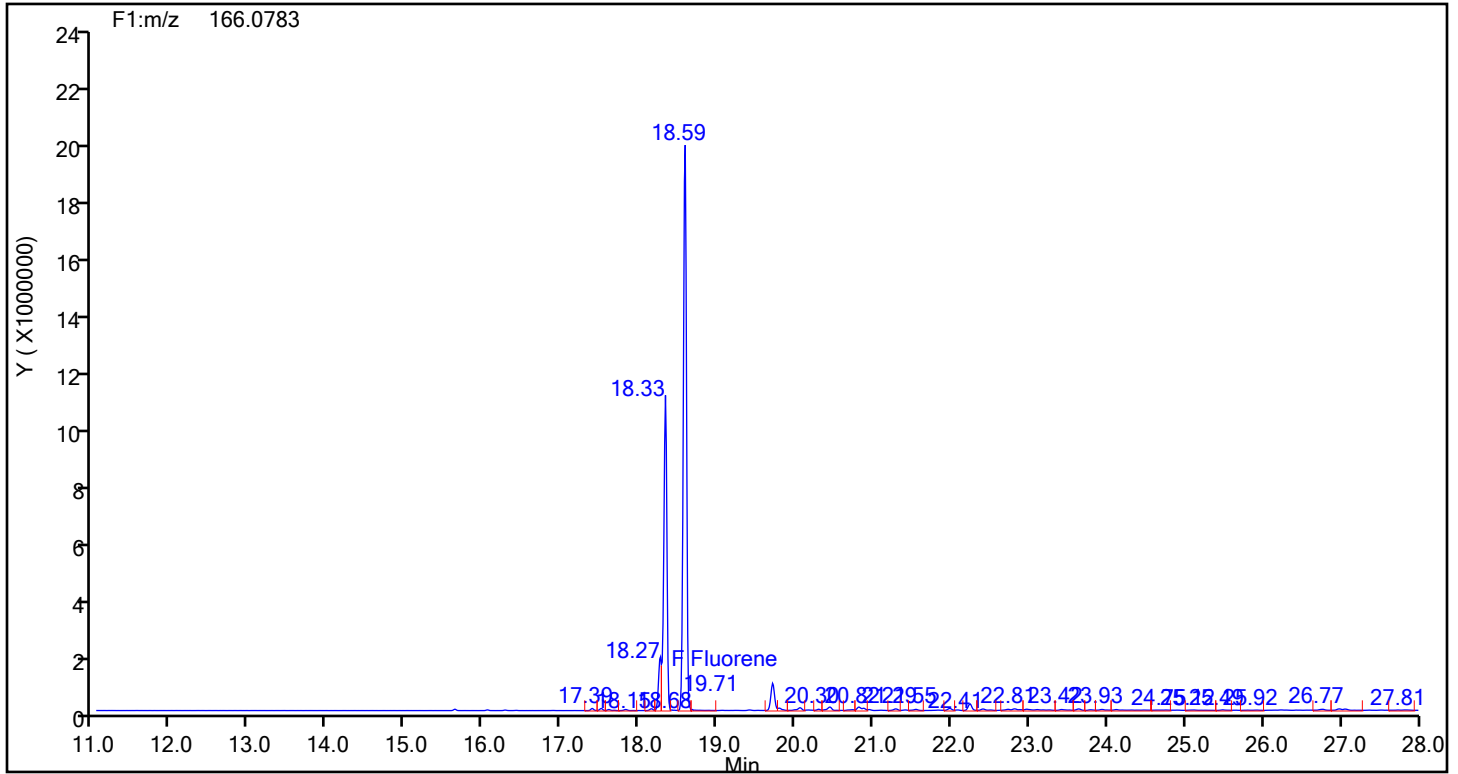
Acenaphthene Standards



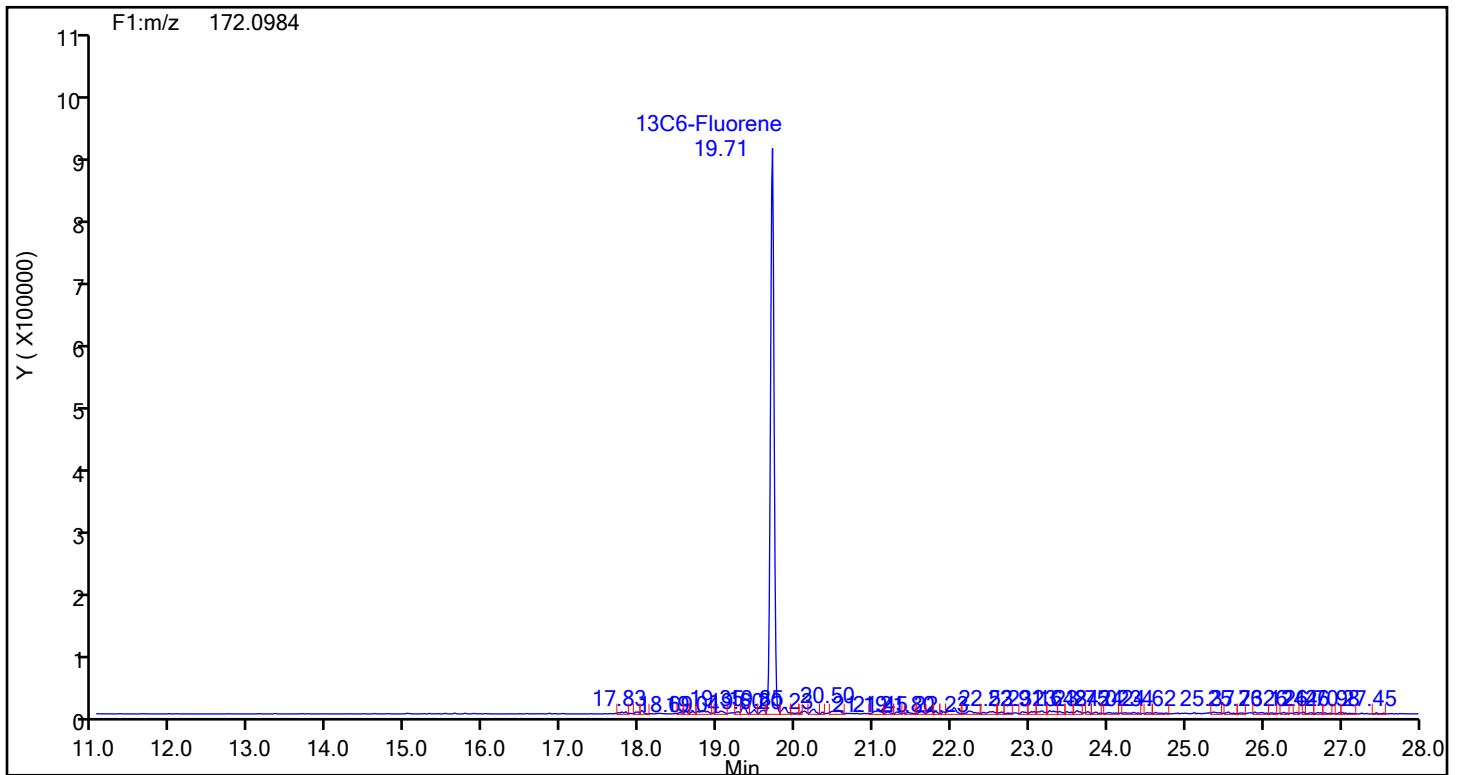
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

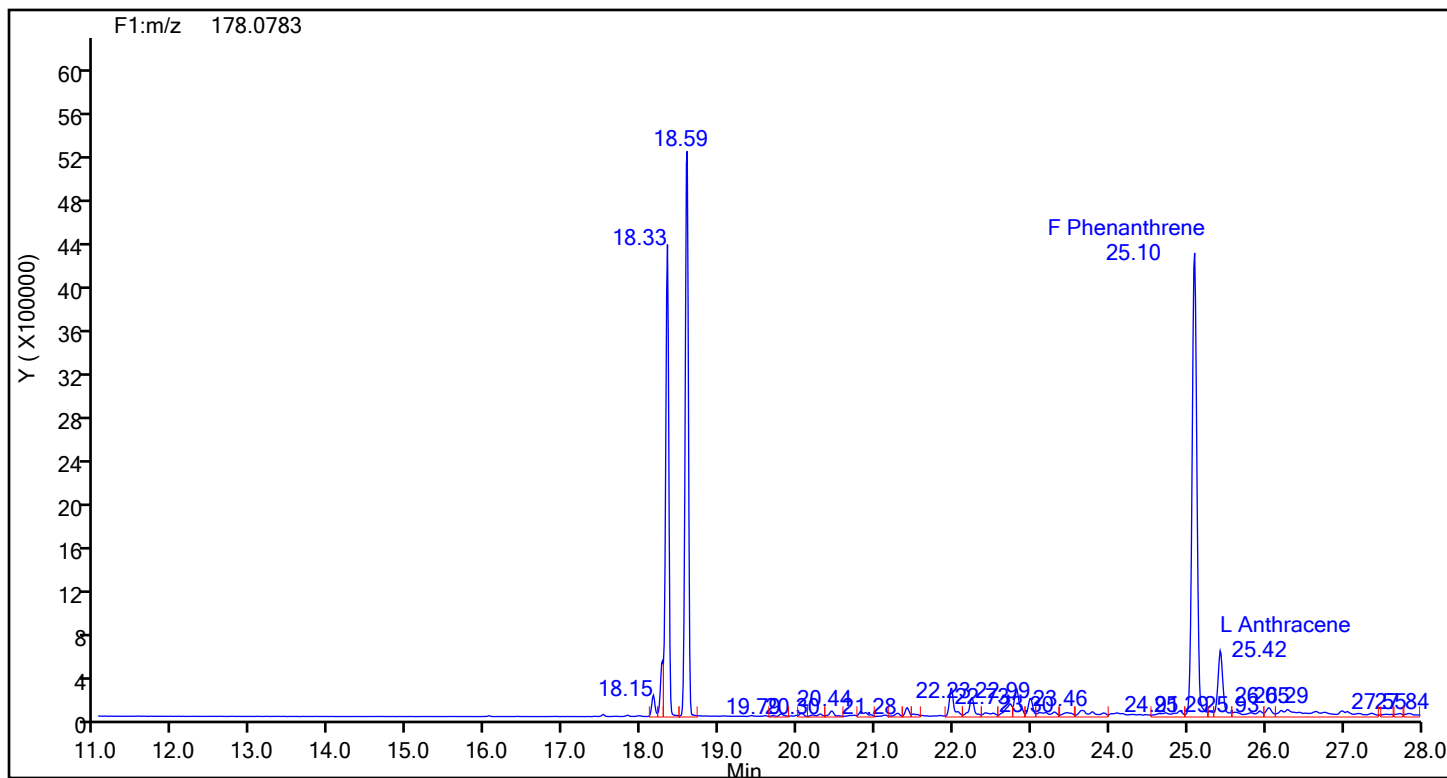


Fluorene Standards

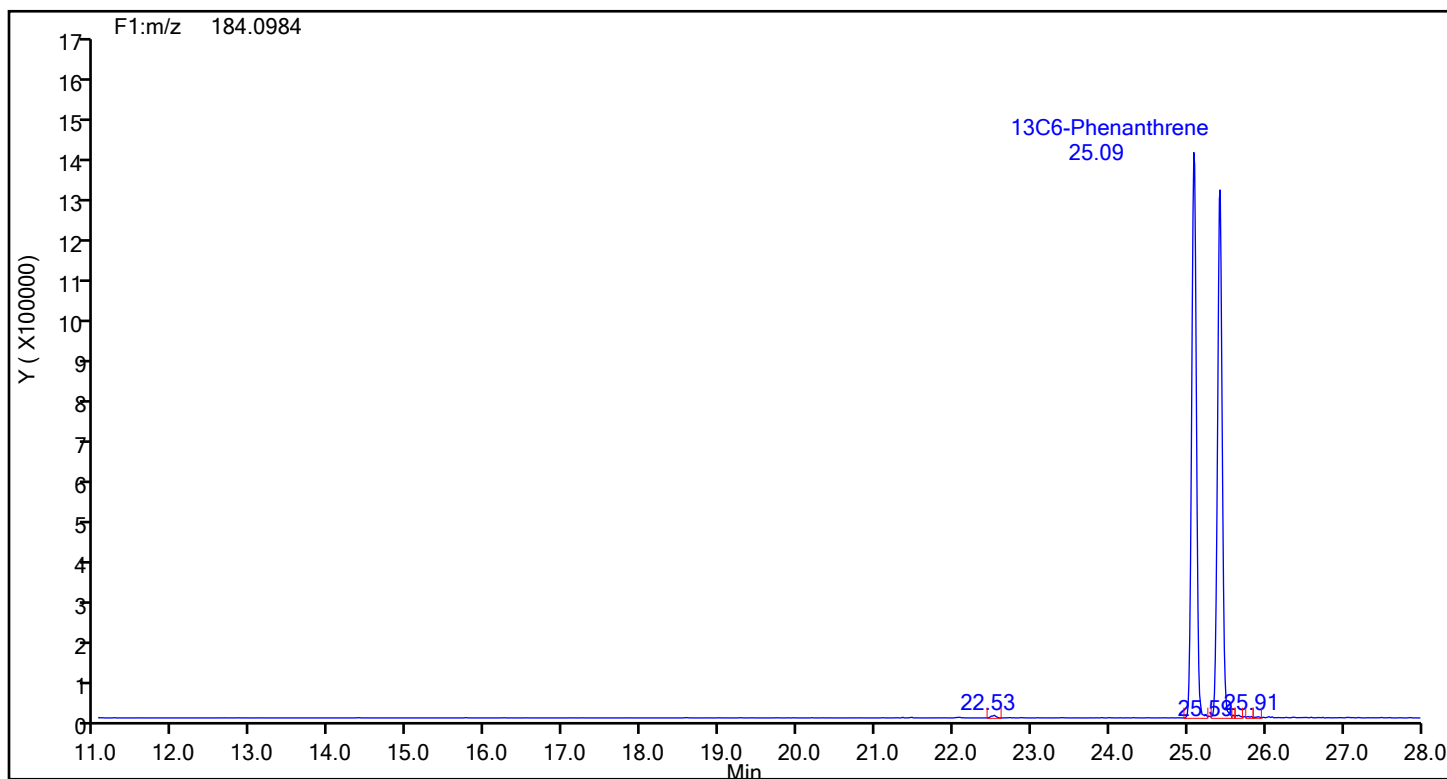


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene

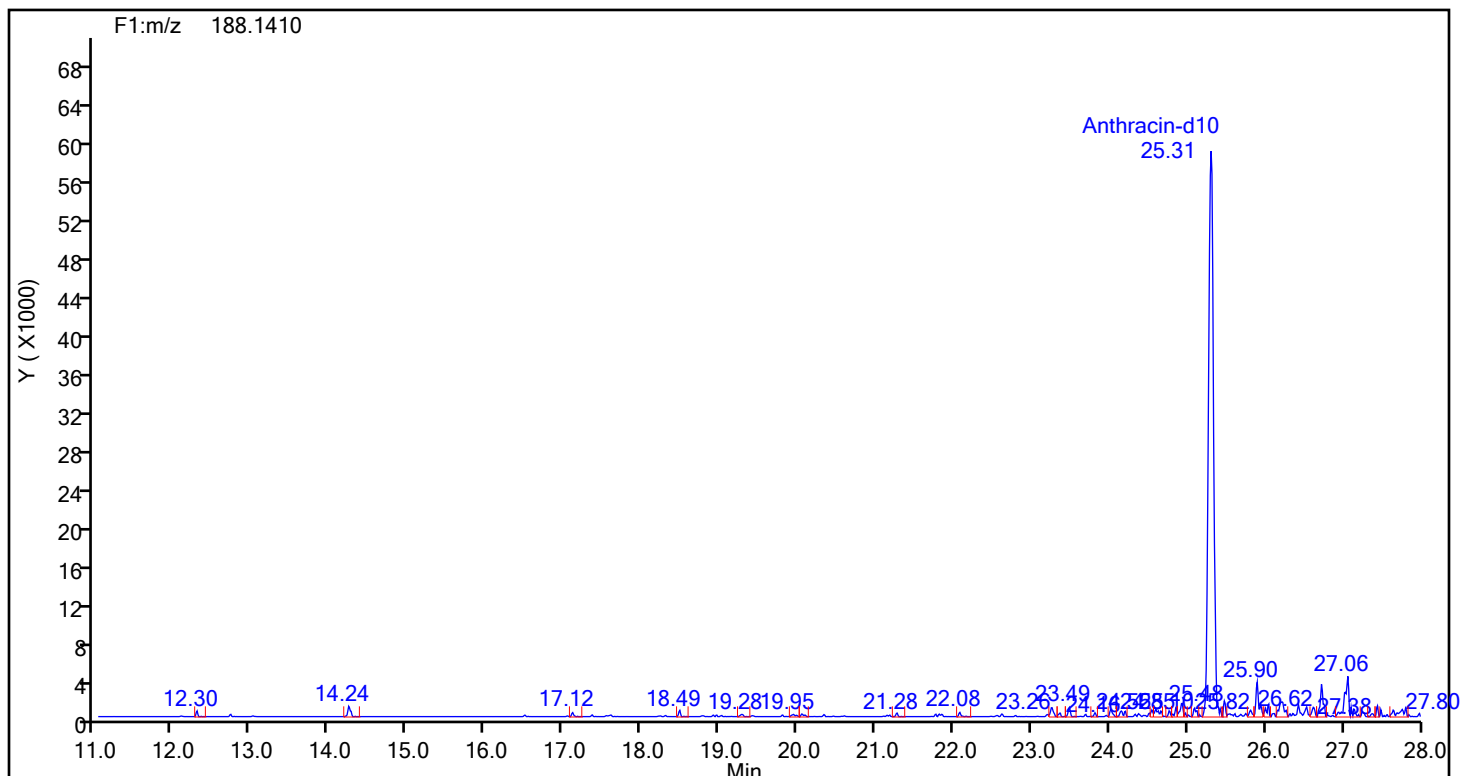


Phenanthrene Standards

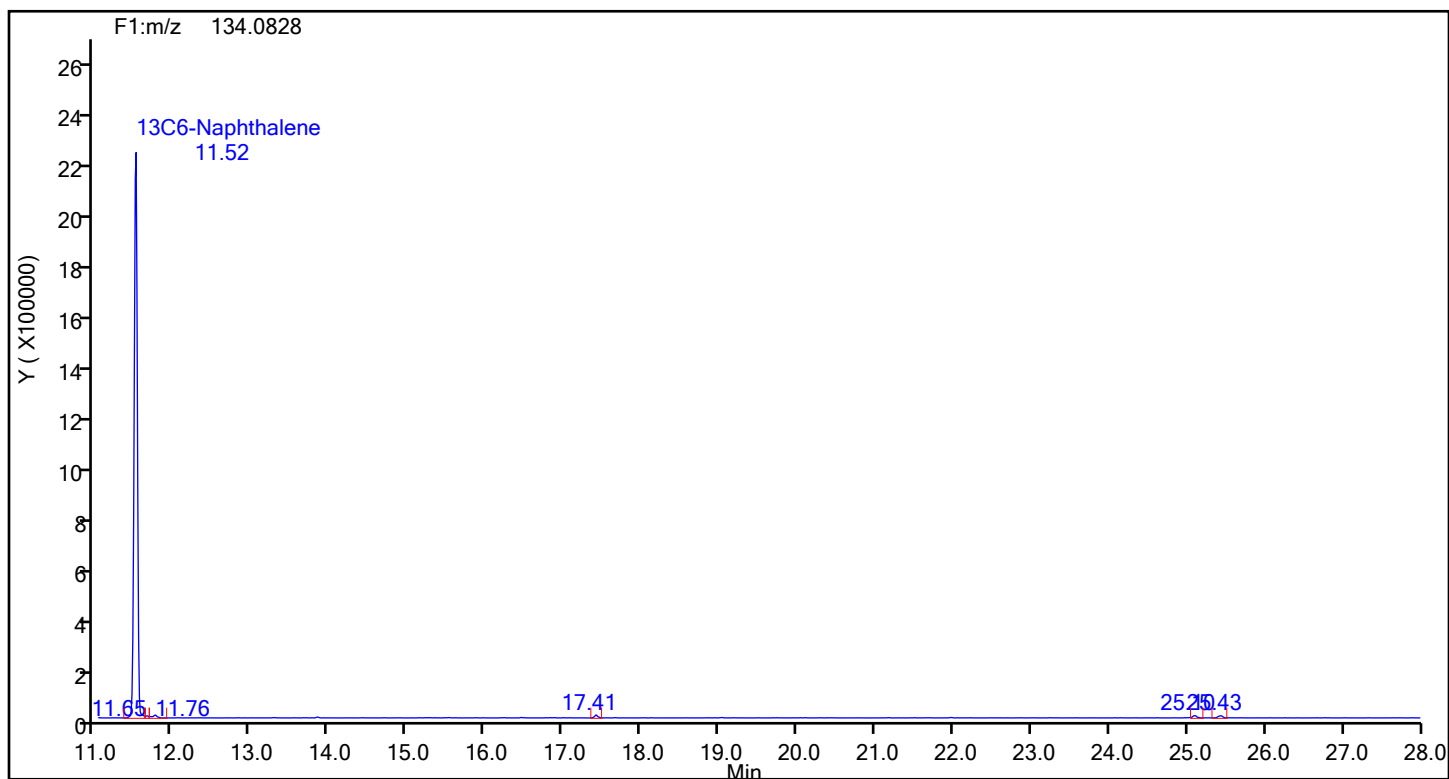


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

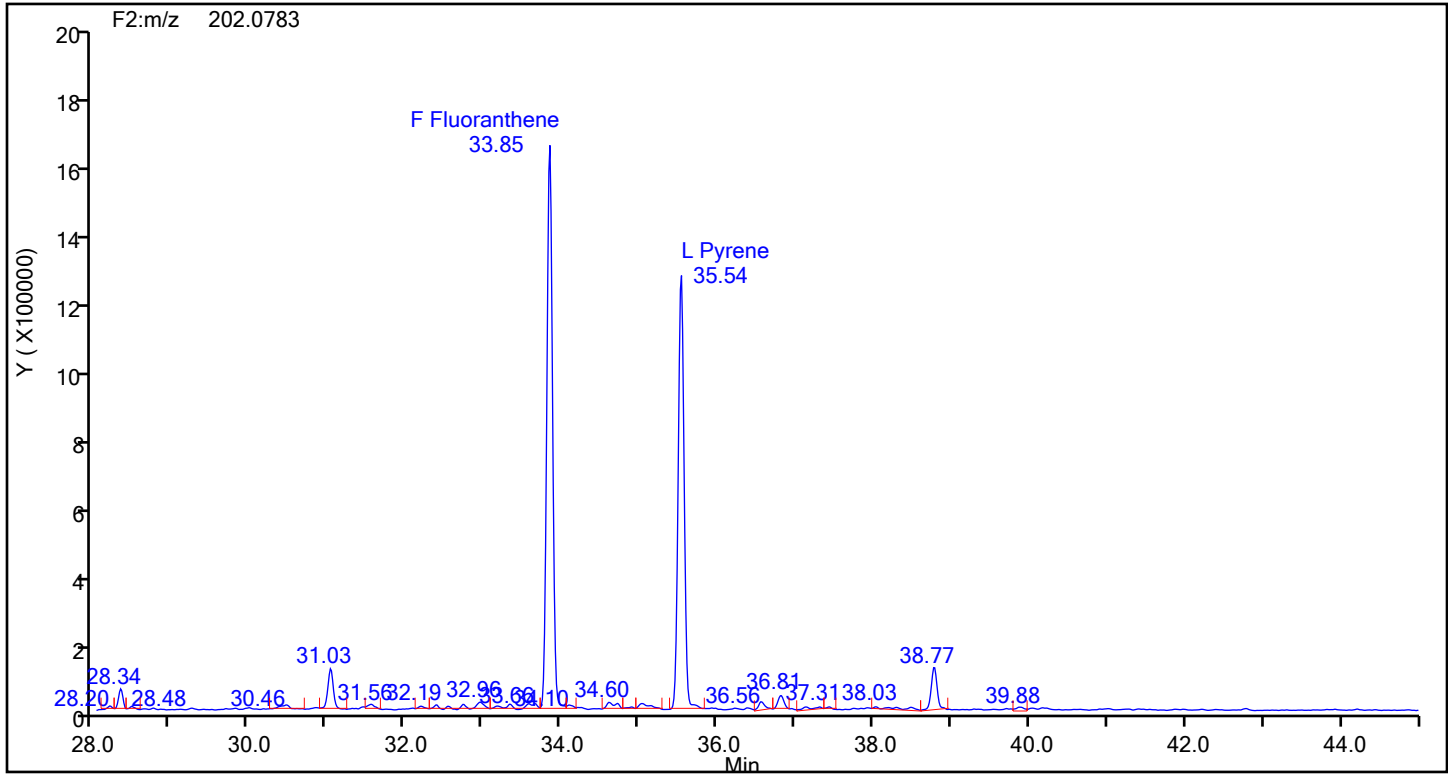


Anthracin-d10 Standards

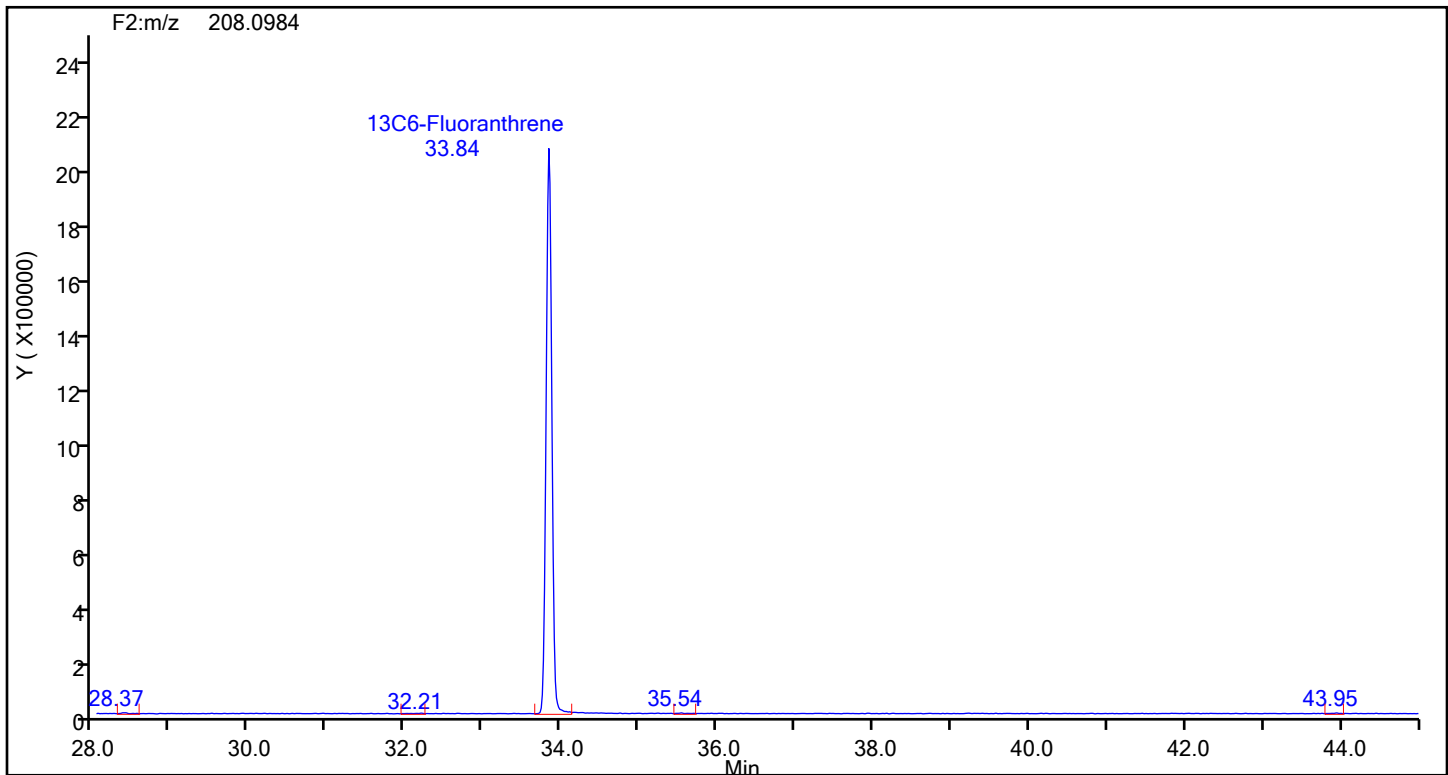


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



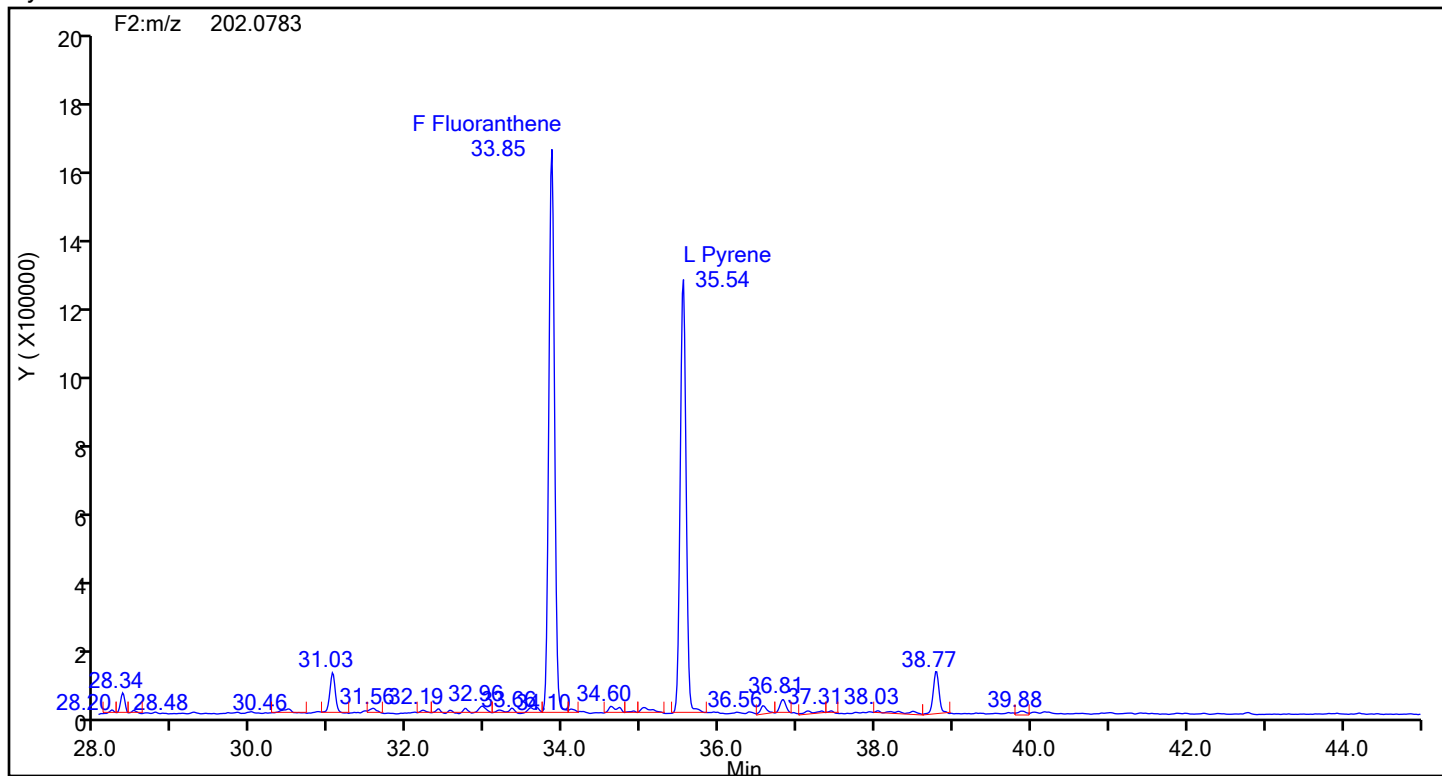
Fluoranthene Standards



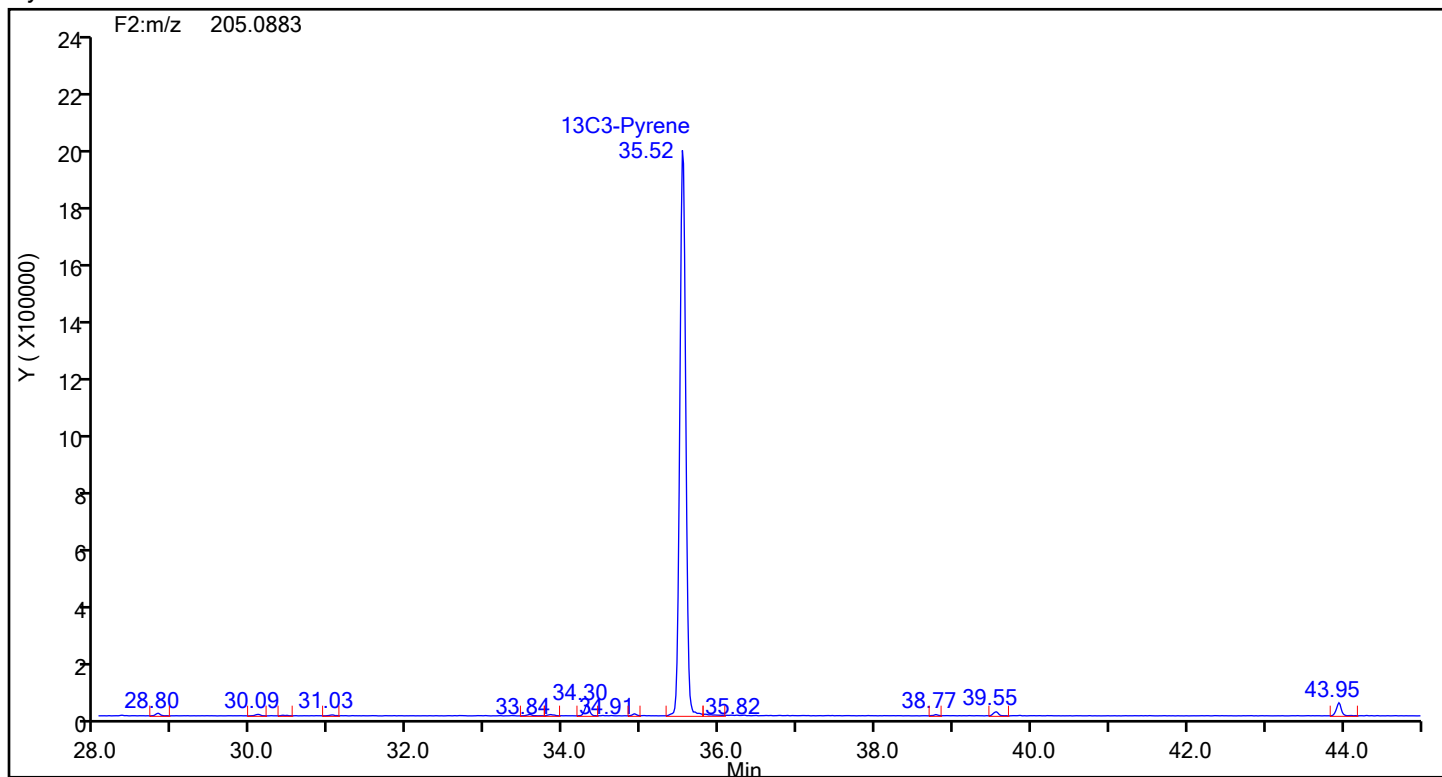
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



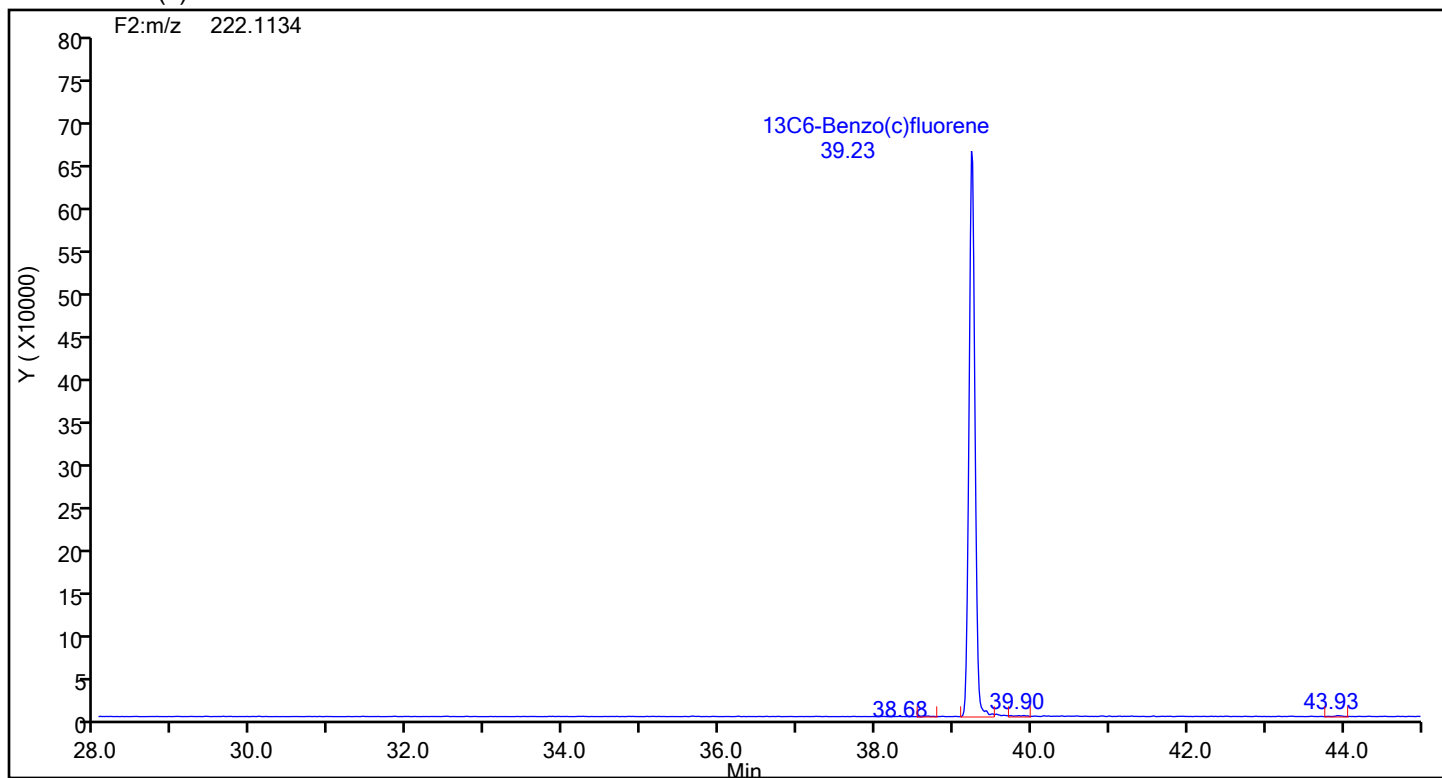
Pyrene Standards



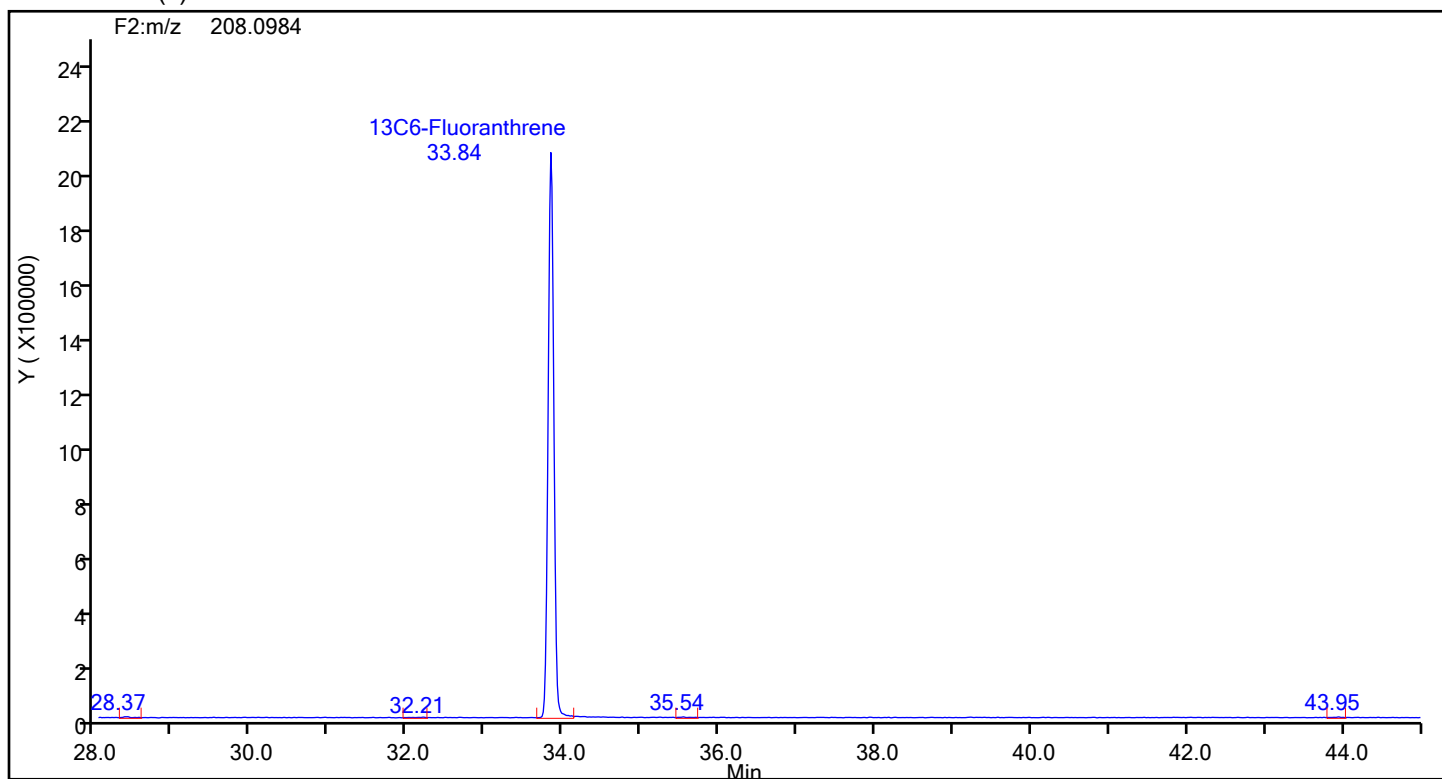
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



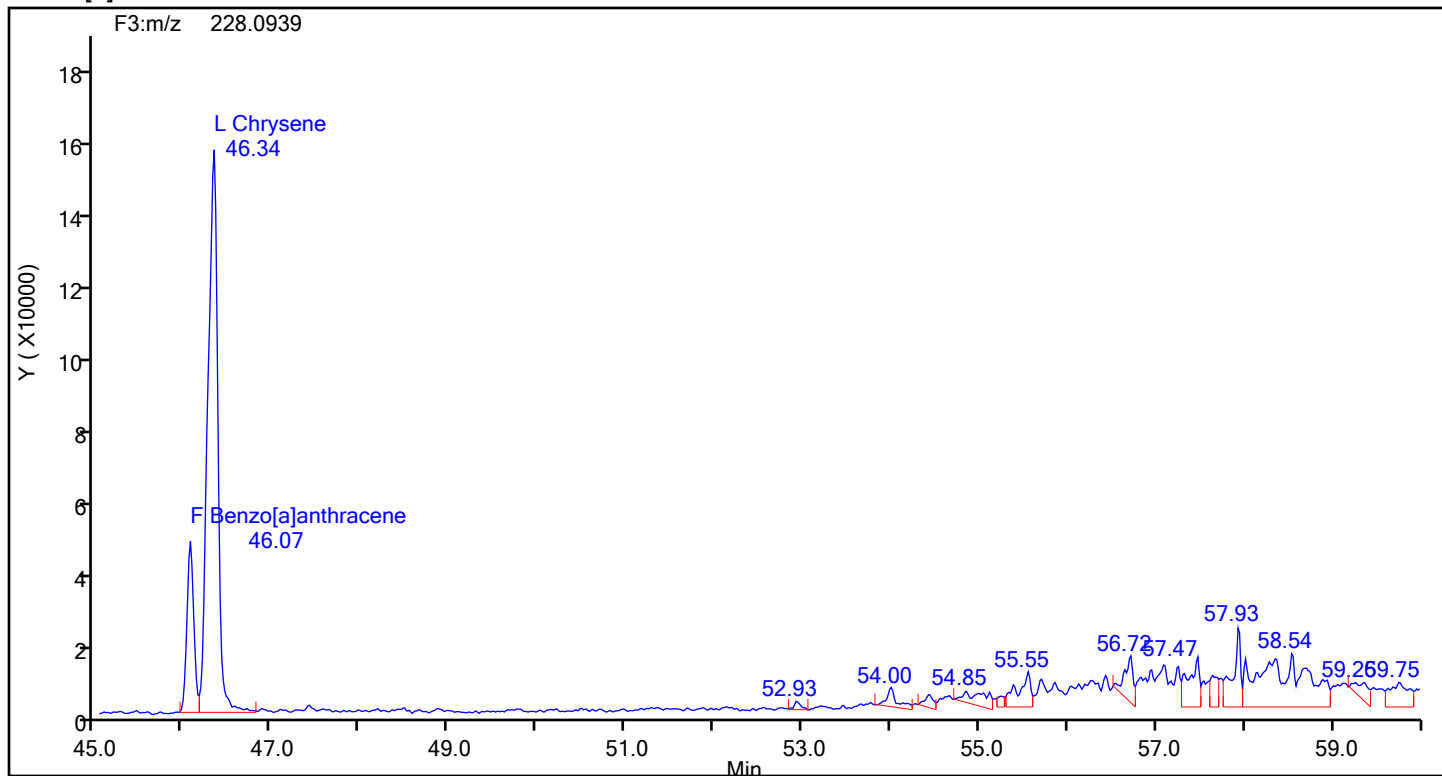
13C6-Benzo(c)fluorene Standards



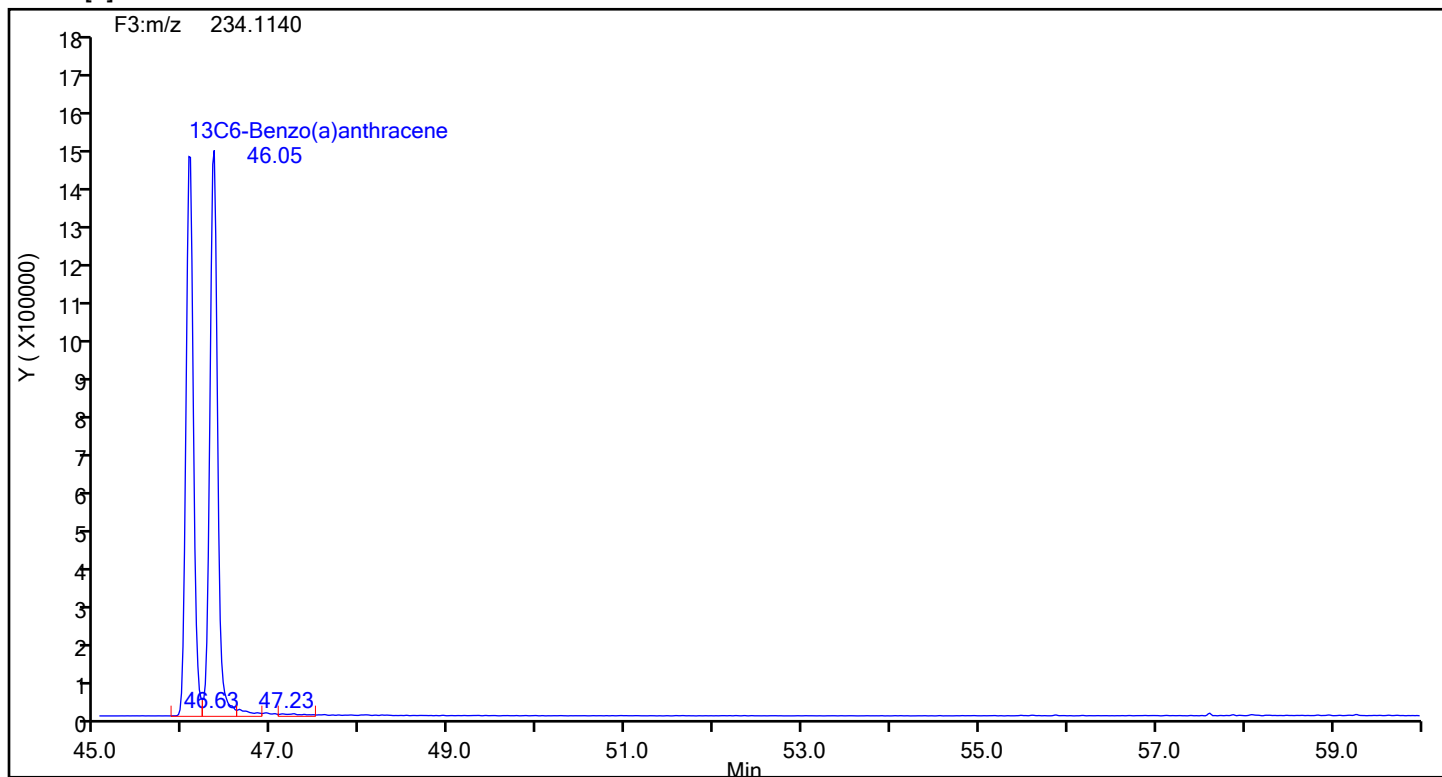
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



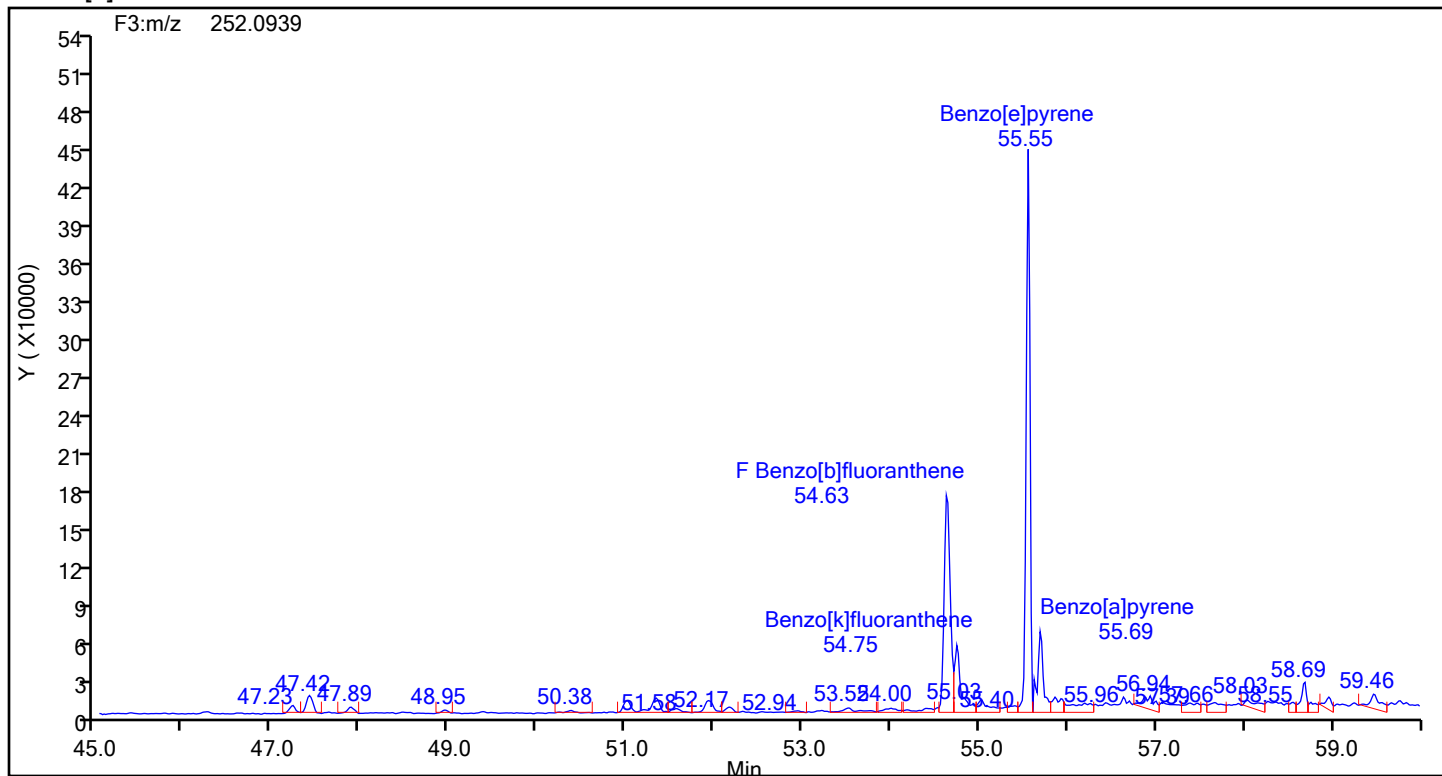
Benzo[a]anthracene Standards



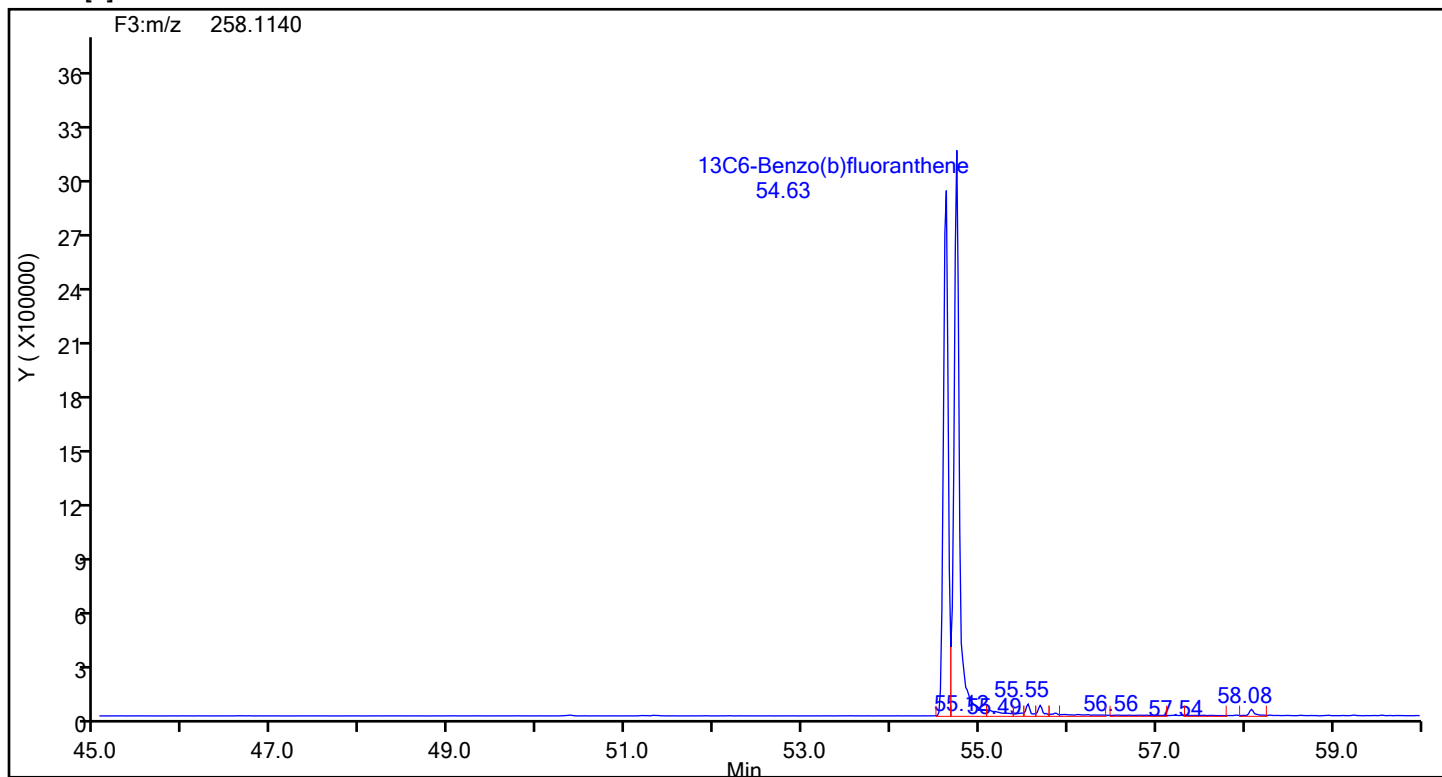
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d

Injection Date: 25-Jun-2024 03:58:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

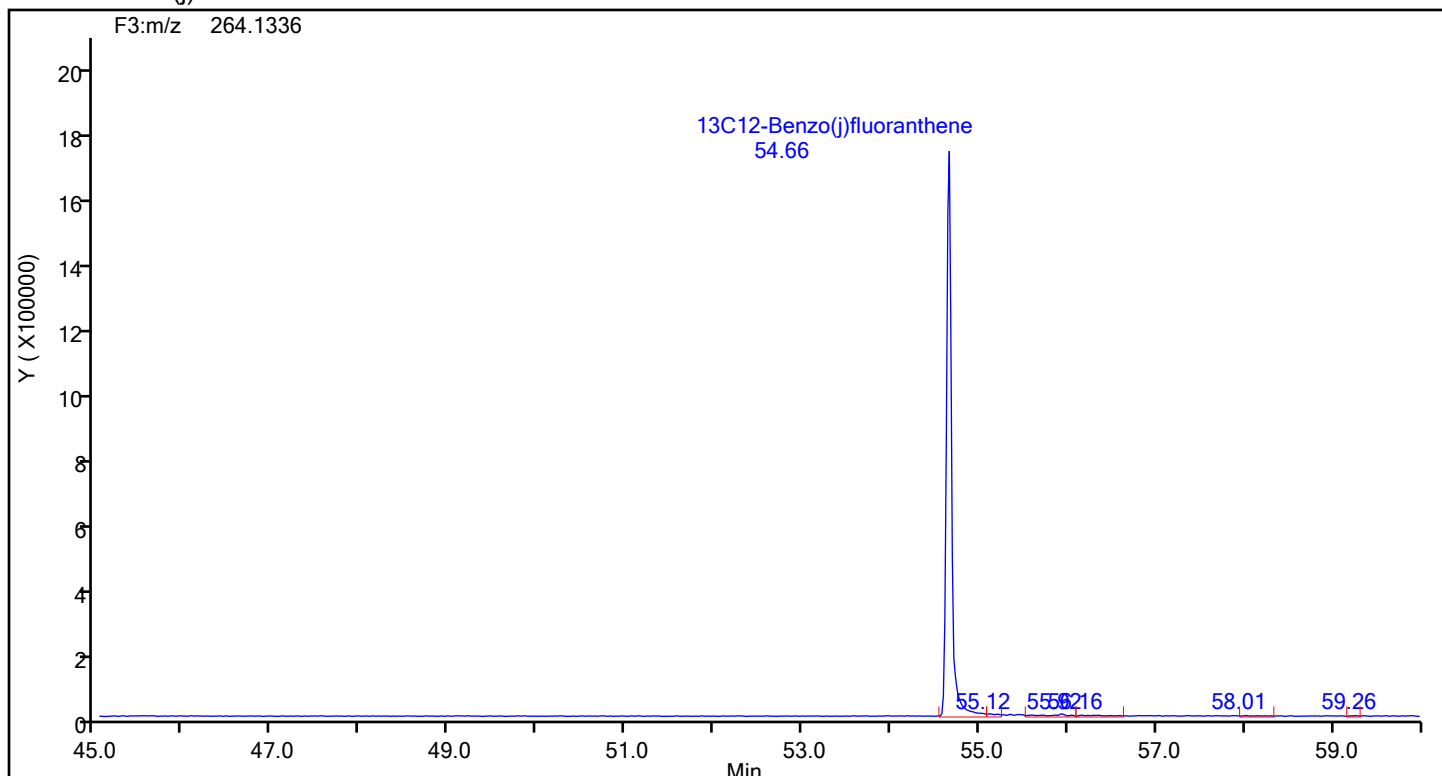
Worklist#: 88048

Sample Line#: 8

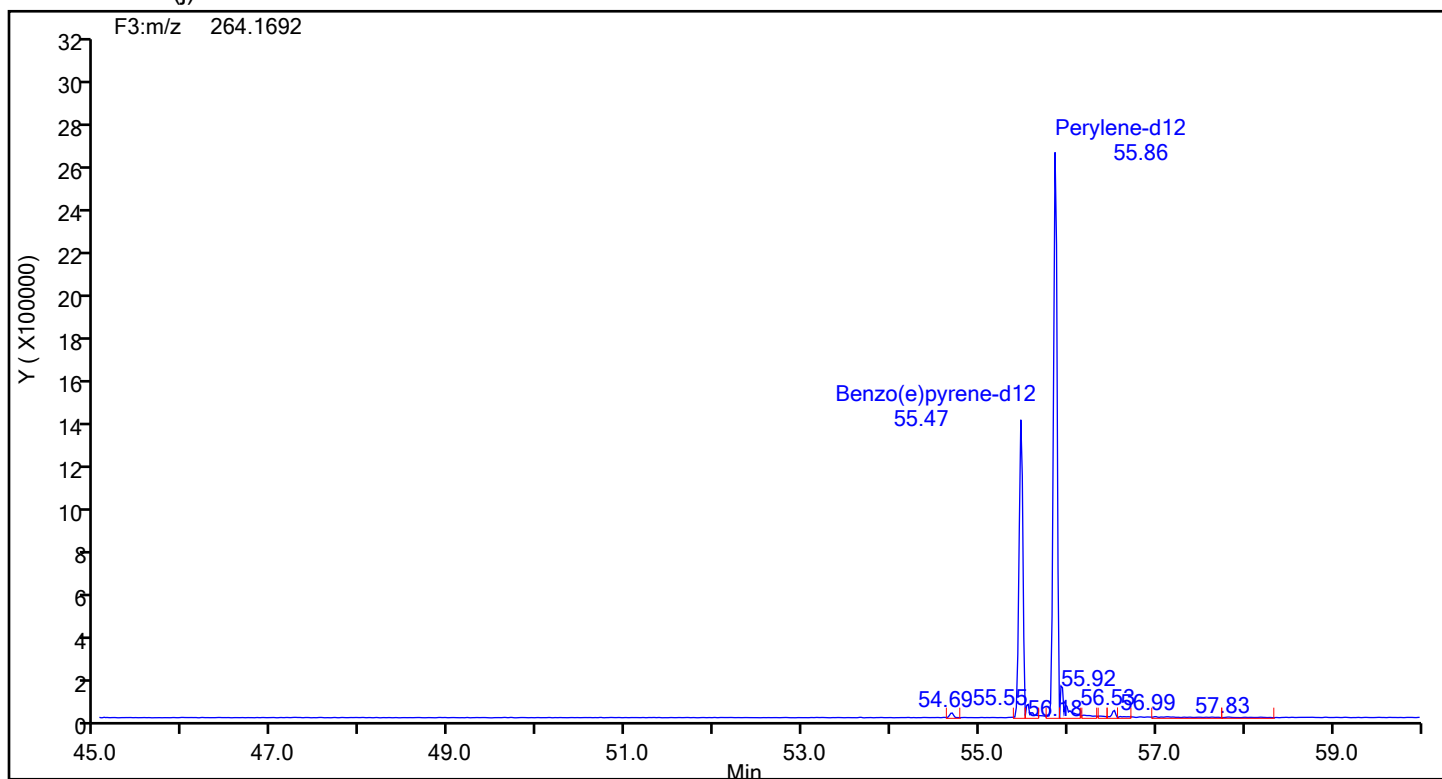
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



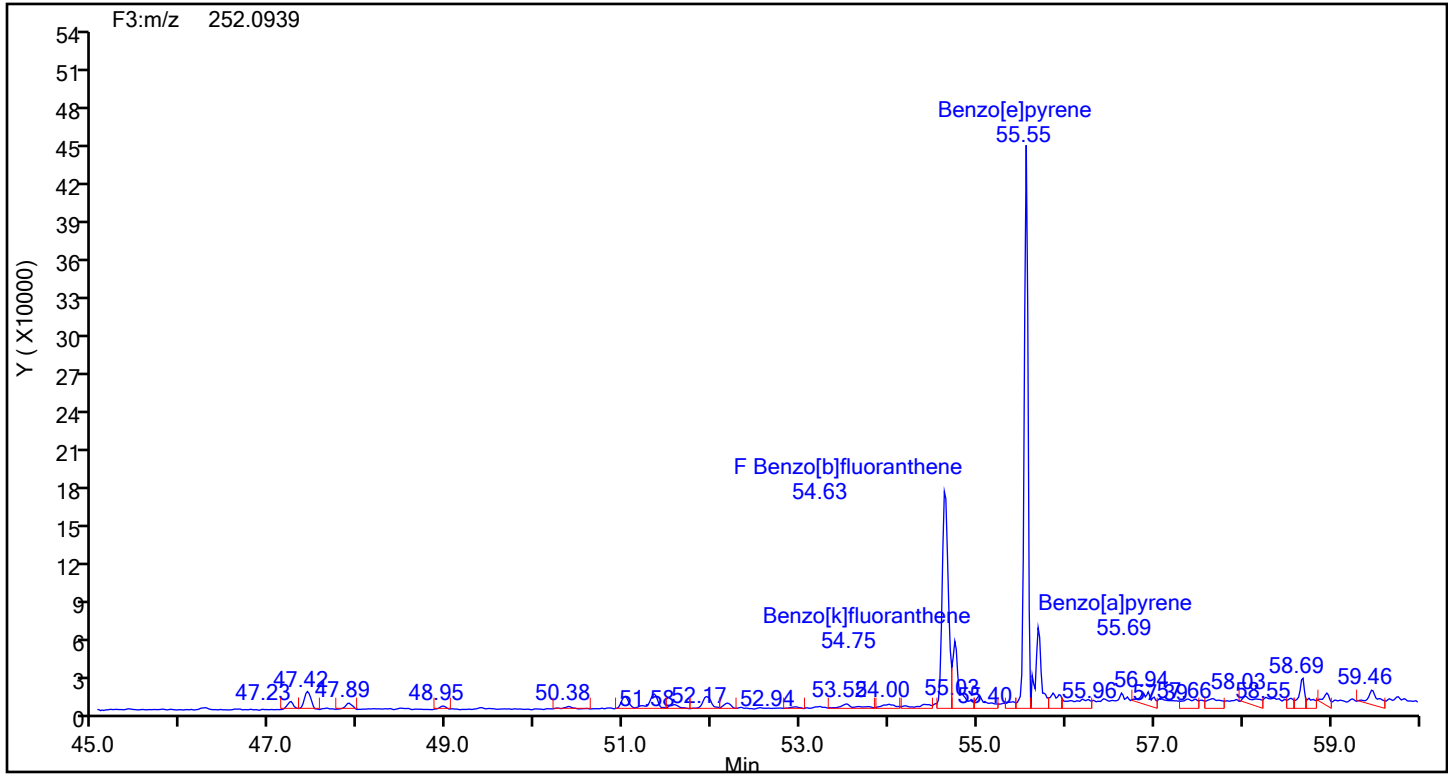
13C12-Benzo(j)fluoranthene Standards



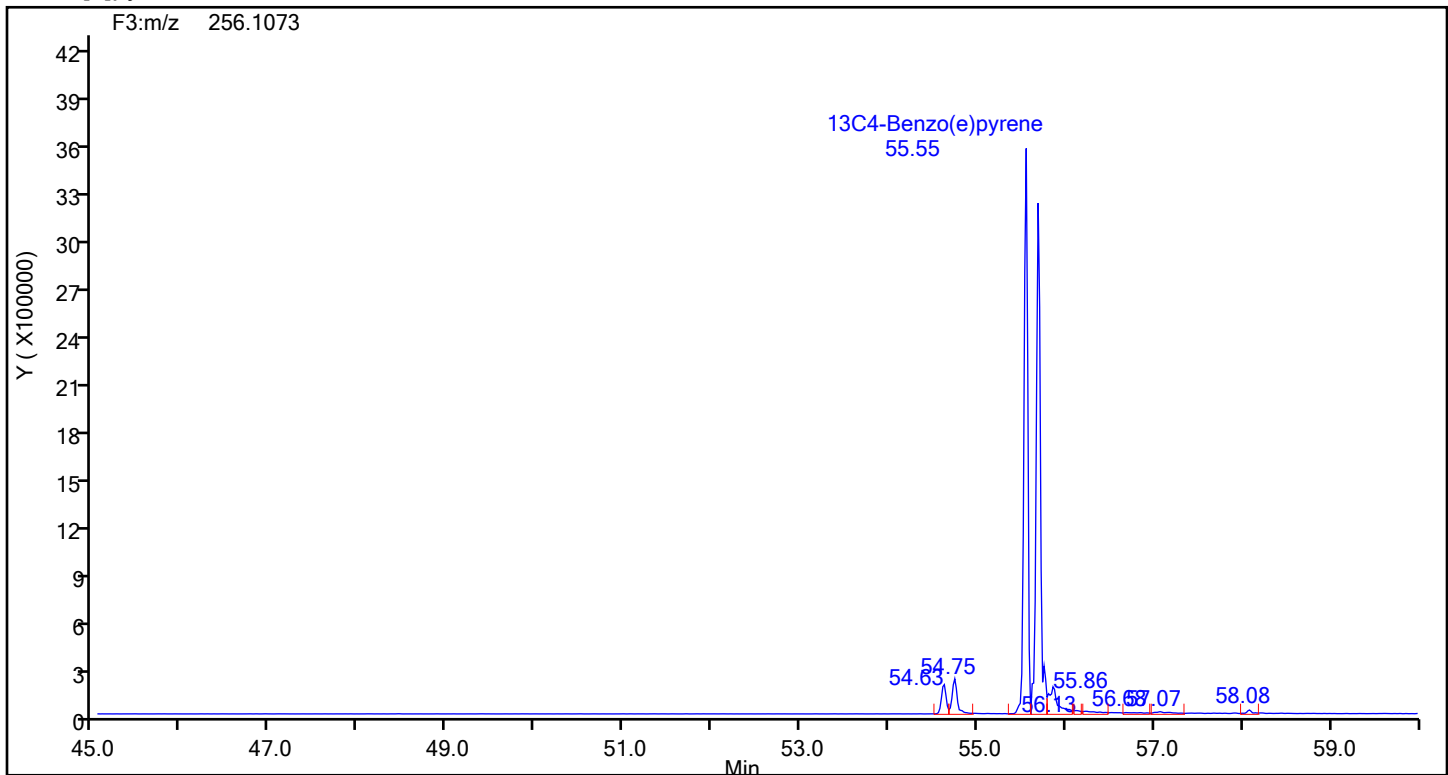
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene

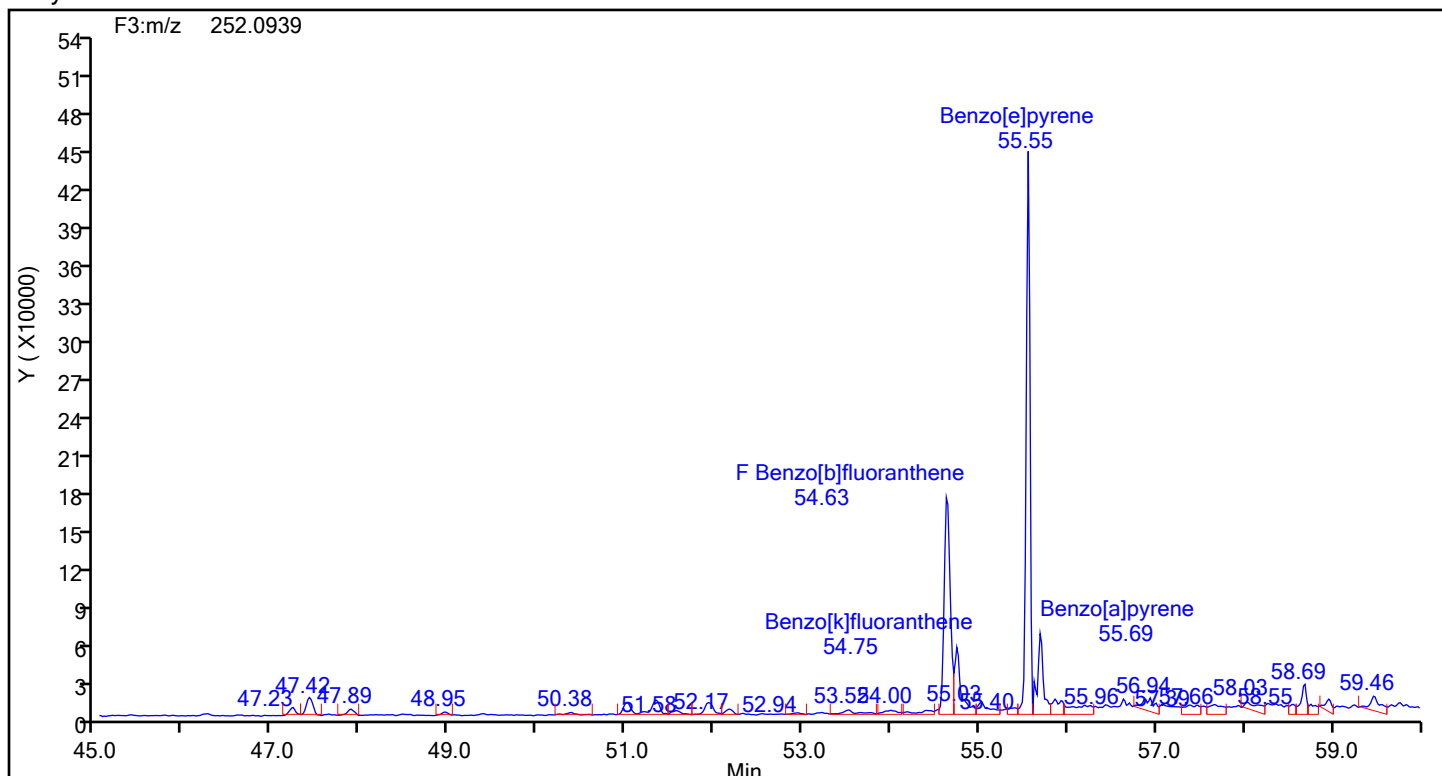


Benzo[e]pyrene Standards

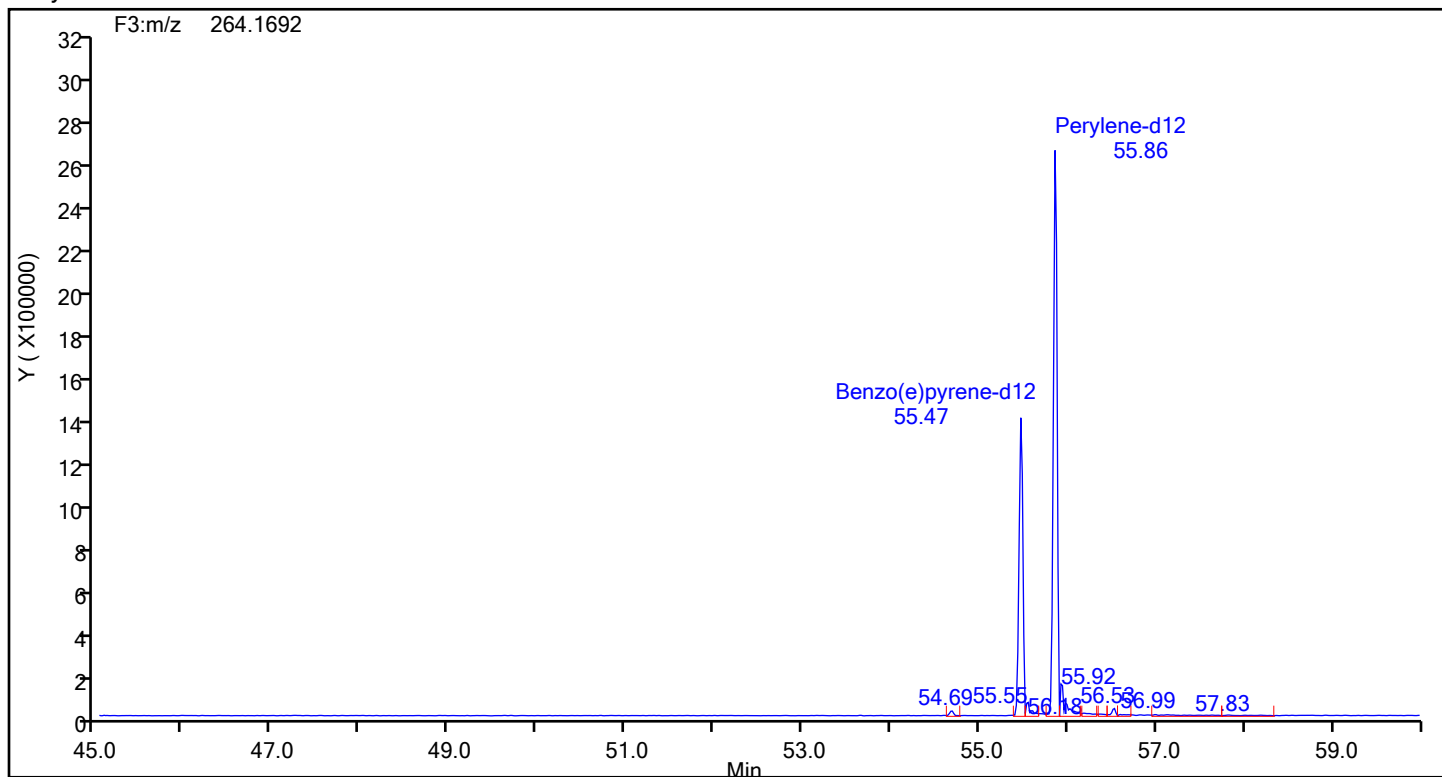


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 88048 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Perylene



Perylene Standards



Eurofins Knoxville

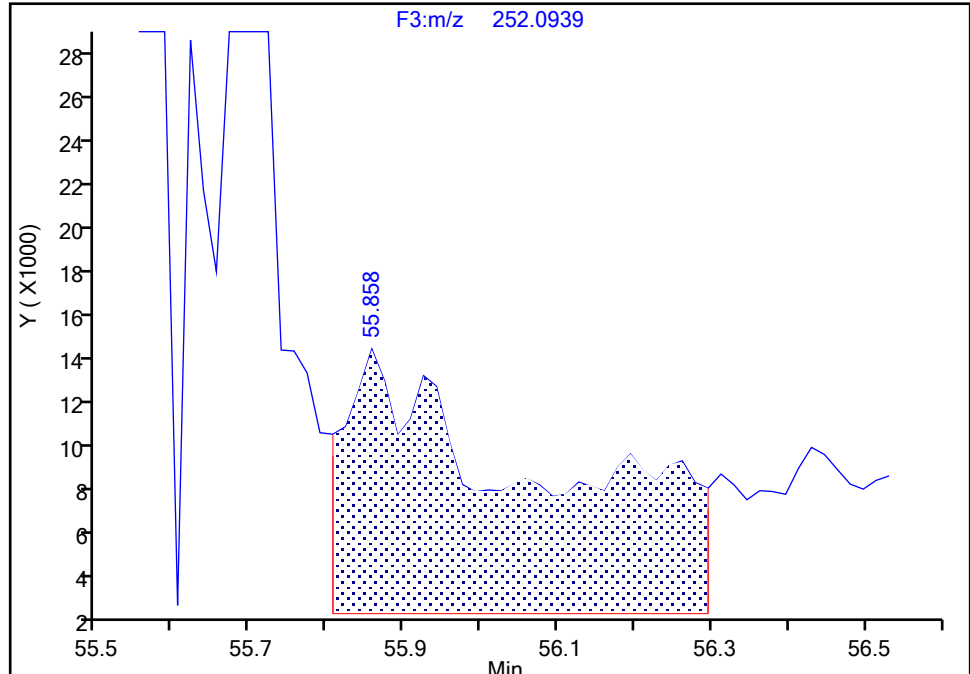
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-7-D Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

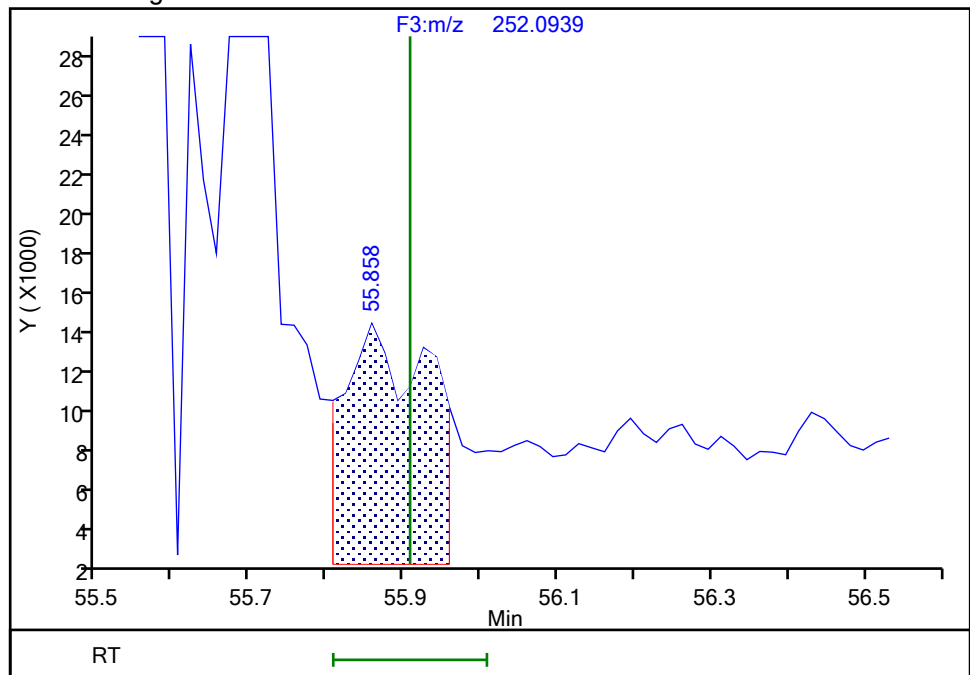
RT: 55.86
Area: 211488
Amount: 1.888439
Amount Units: pg/ul

Processing Integration Results



RT: 55.86
Area: 96523
Amount: 0.861883
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:32:37 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d

Injection Date: 25-Jun-2024 03:58:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

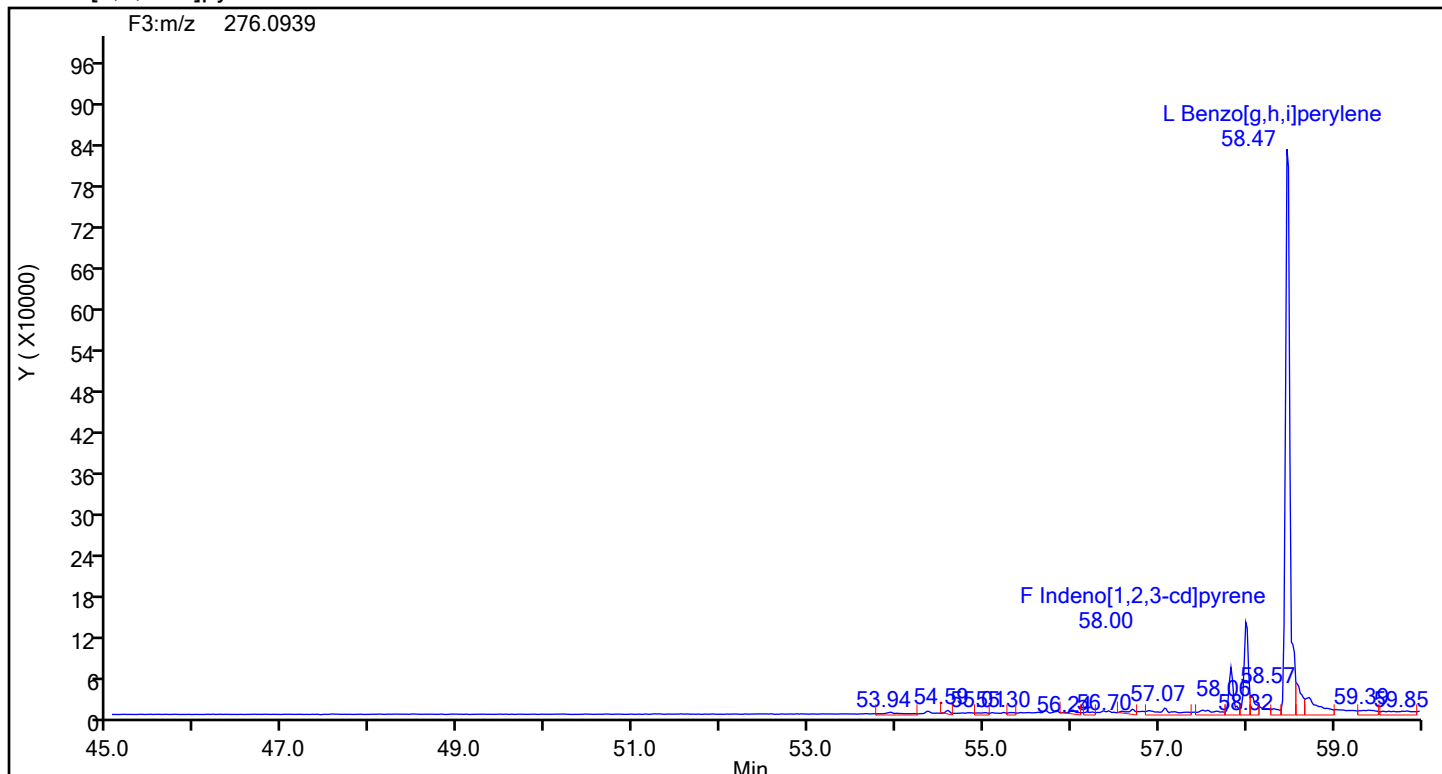
Worklist#: 88048

Sample Line#: 8

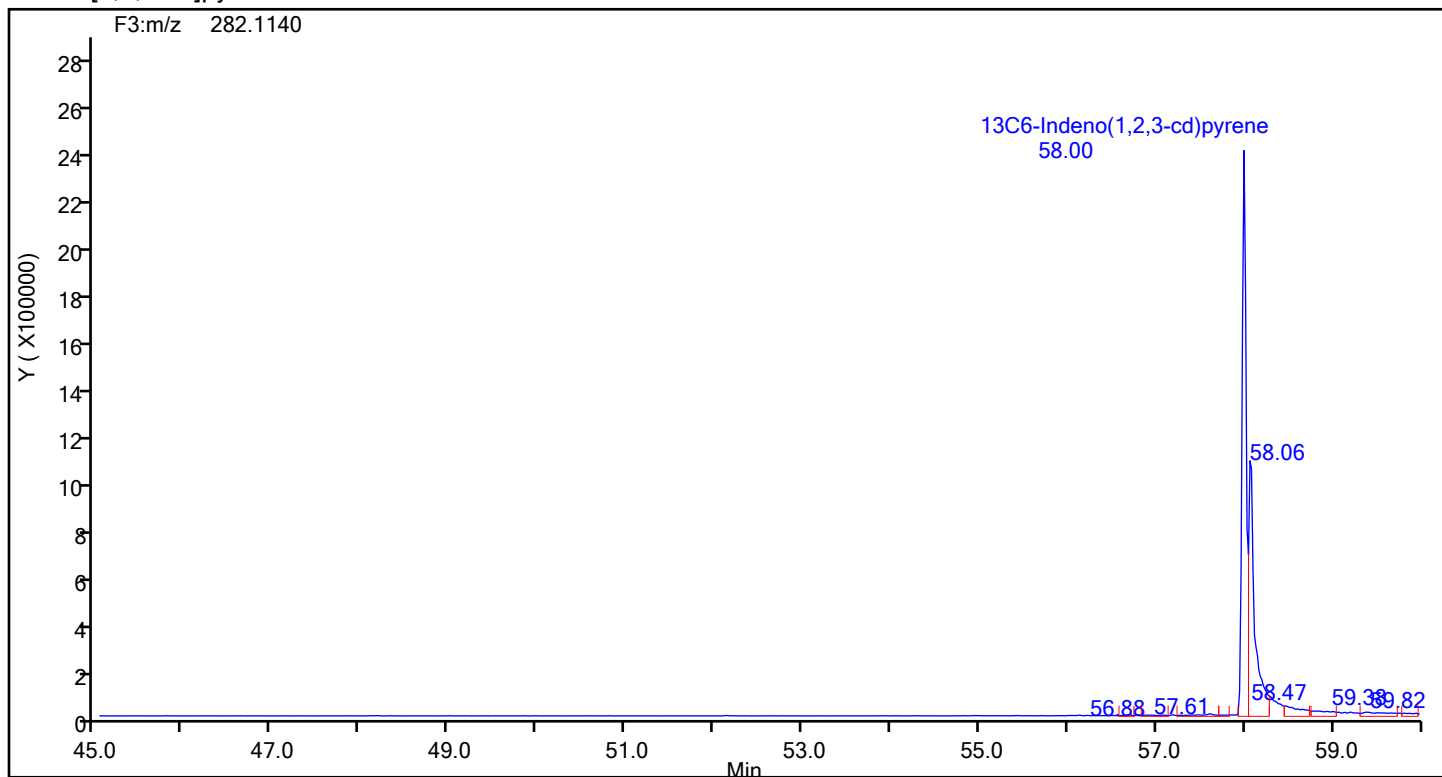
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

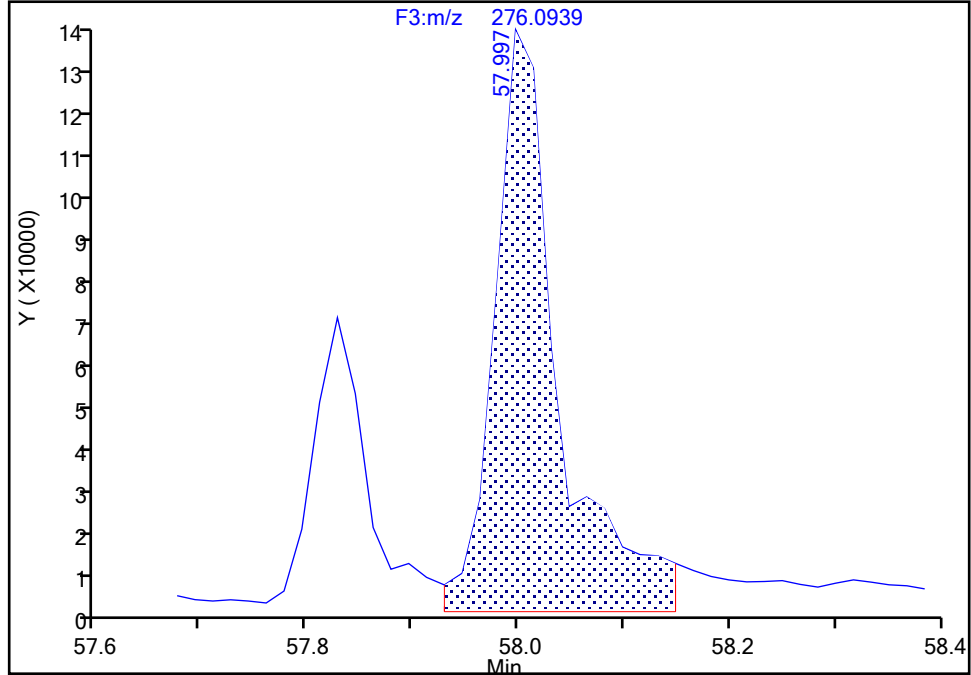
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-7-D Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

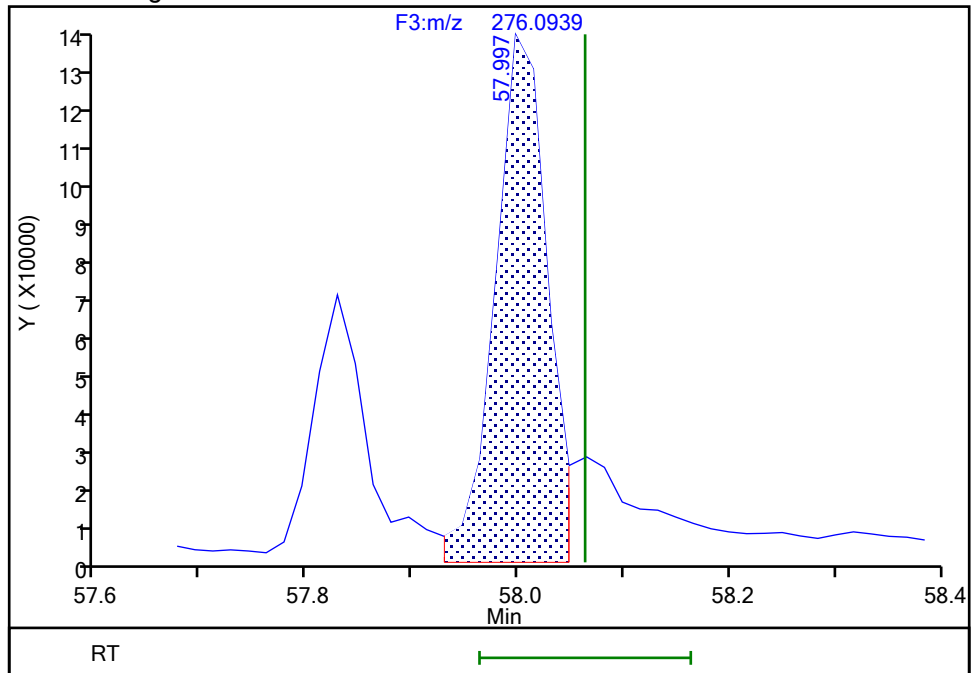
RT: 58.00
Area: 565657
Amount: 6.259228
Amount Units: pg/ul

Processing Integration Results



RT: 58.00
Area: 469947
Amount: 5.200158
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:33:05 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

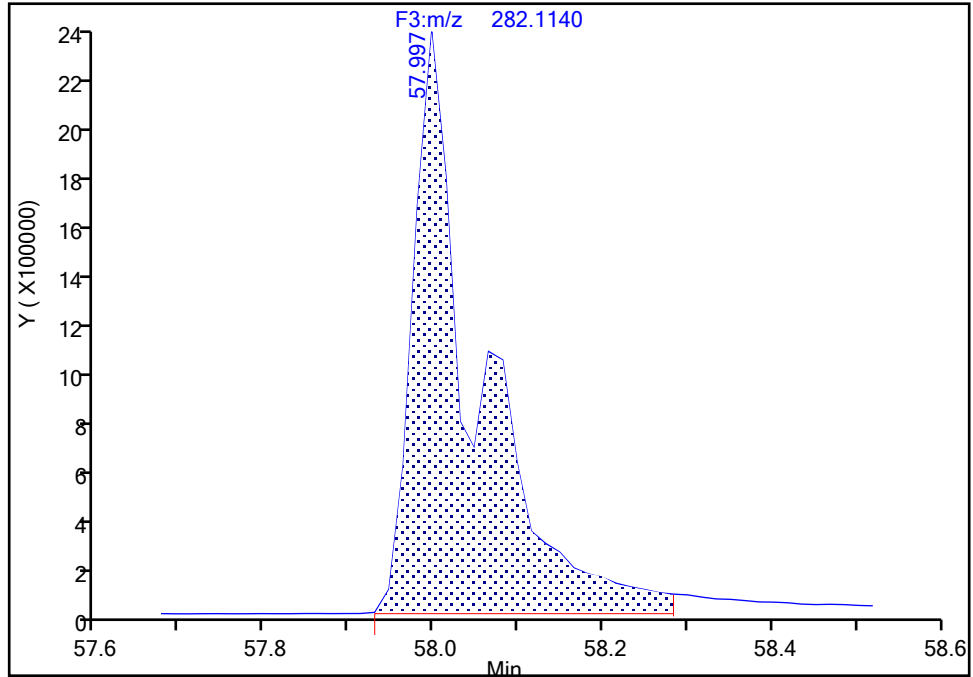
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-7-D Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

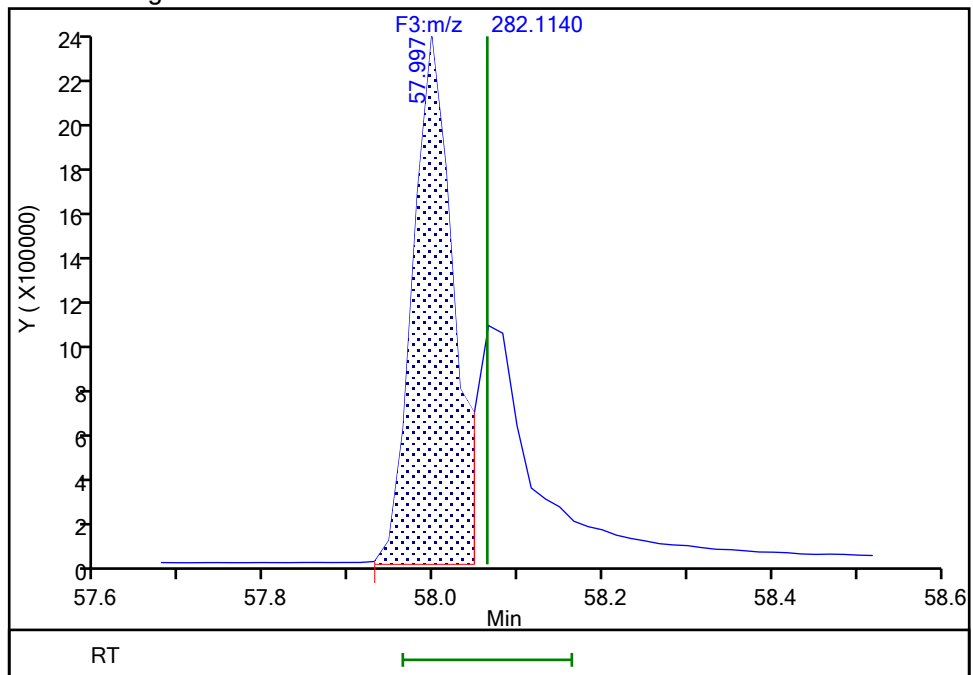
RT: 58.00
Area: 12628427
Amount: 146.2128
Amount Units: pg/ul

Processing Integration Results



RT: 58.00
Area: 8033448
Amount: 93.011785
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:32:58 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d

Injection Date: 25-Jun-2024 03:58:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

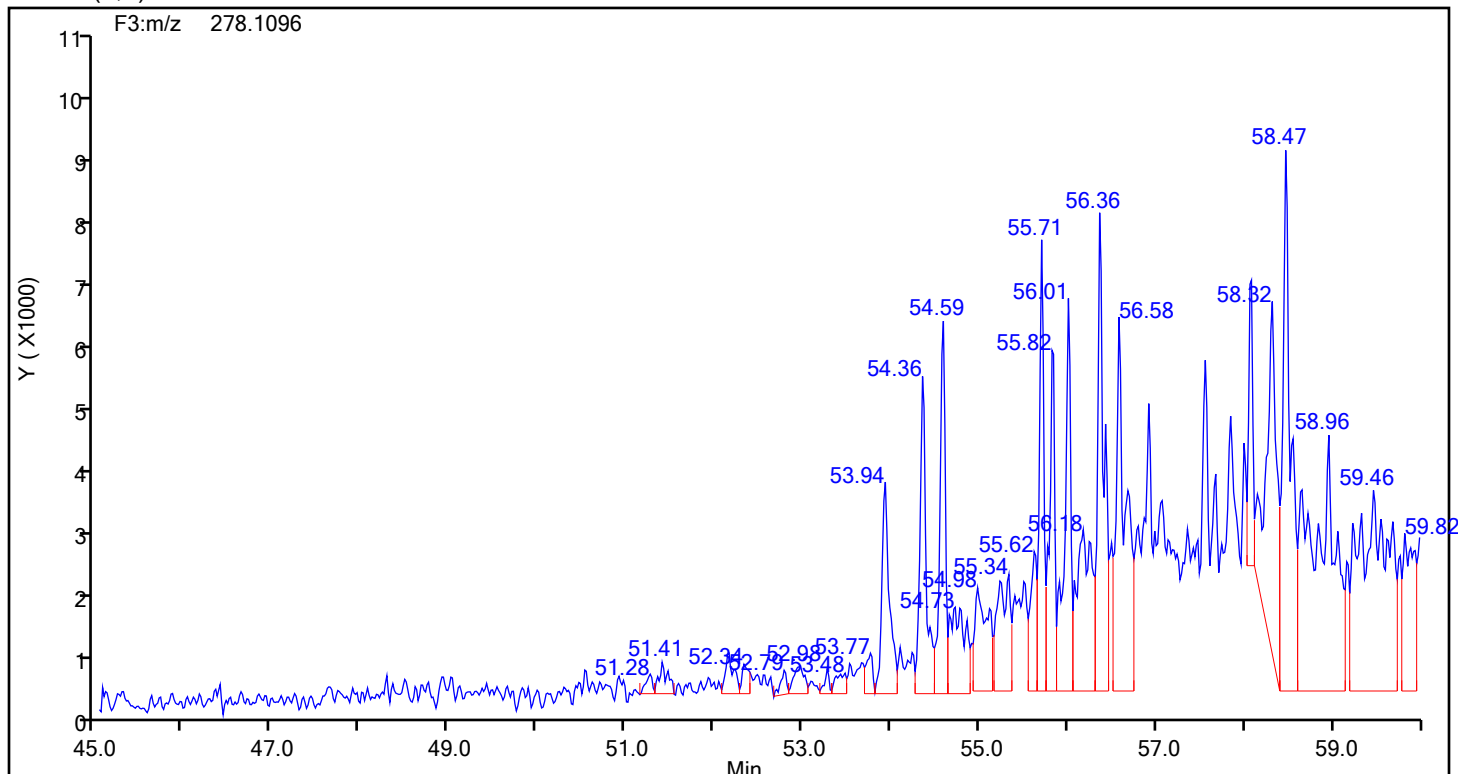
Worklist#: 88048

Sample Line#: 8

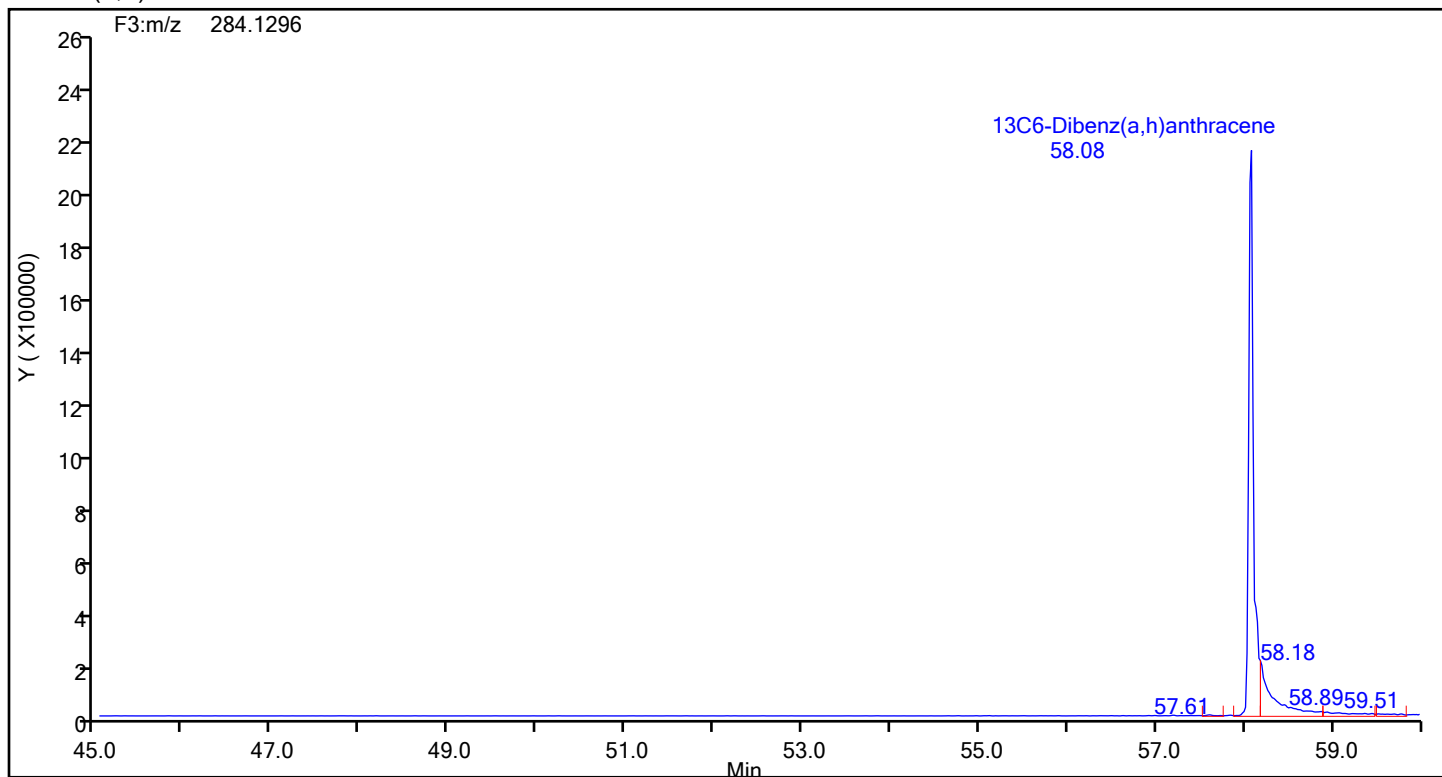
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

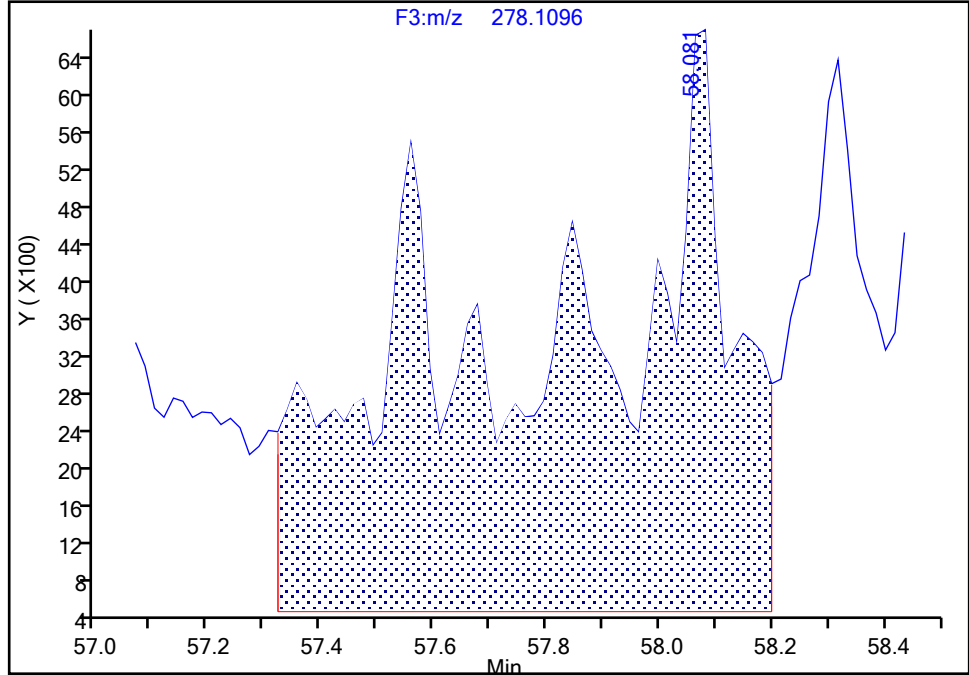
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-7-D Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

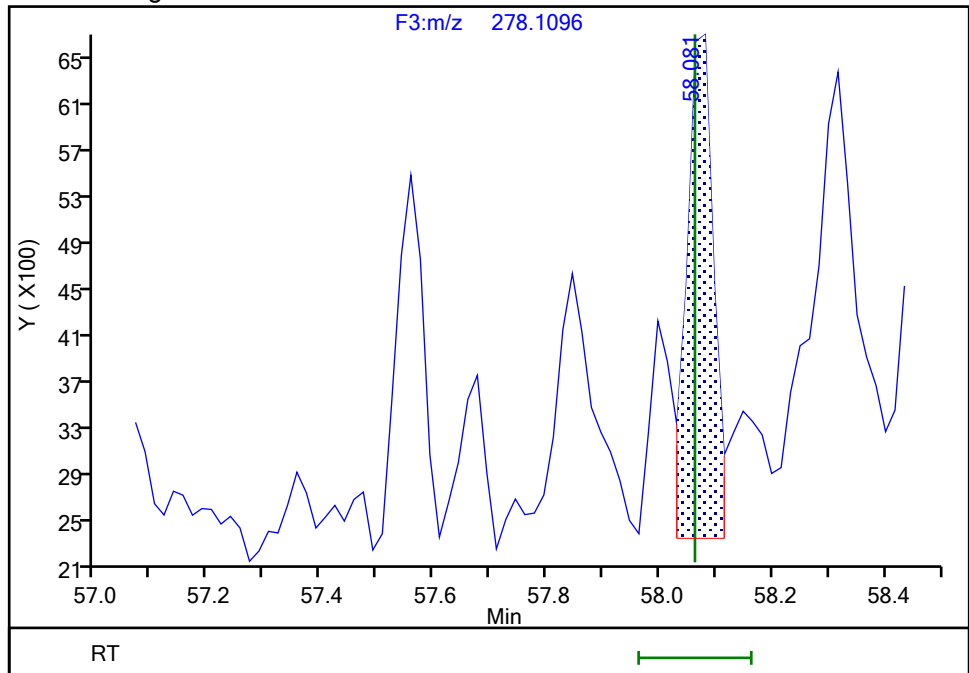
RT: 58.08
Area: 150471
Amount: 1.640384
Amount Units: pg/ul

Processing Integration Results



RT: 58.08
Area: 14731
Amount: 0.160592
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:33:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

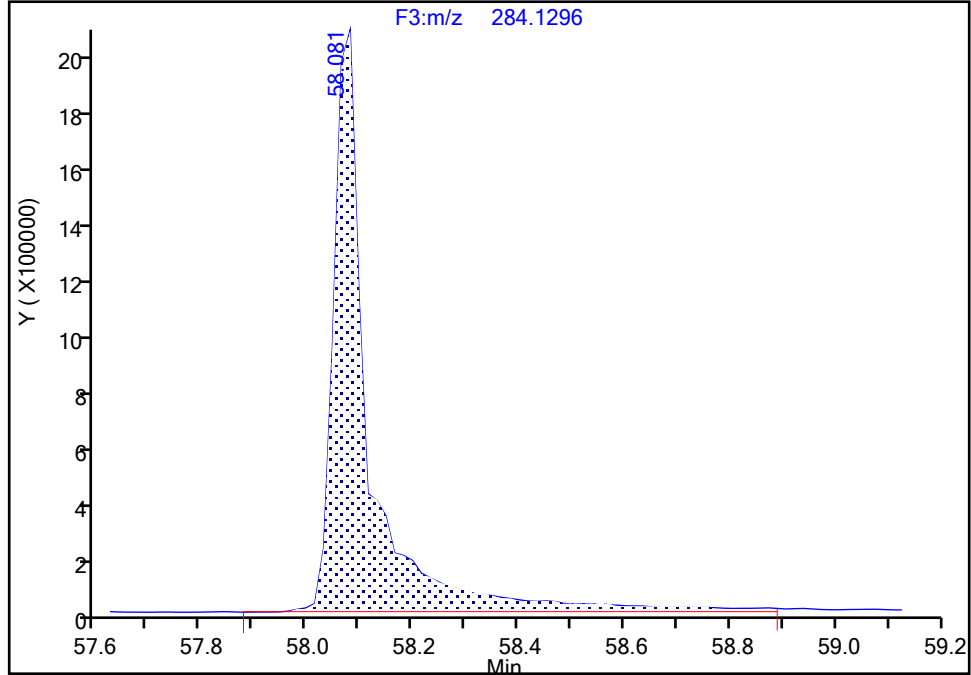
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-7-D Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

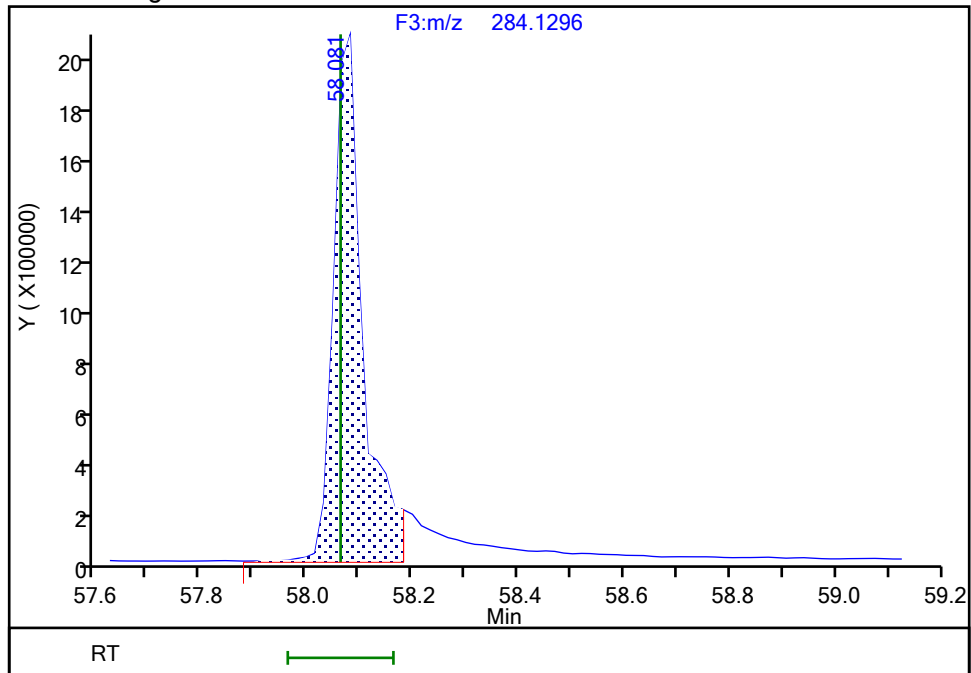
RT: 58.08
Area: 9943739
Amount: 111.4824
Amount Units: pg/ul

Processing Integration Results



RT: 58.08
Area: 8107767
Amount: 90.898768
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:33:09 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d

Injection Date: 25-Jun-2024 03:58:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

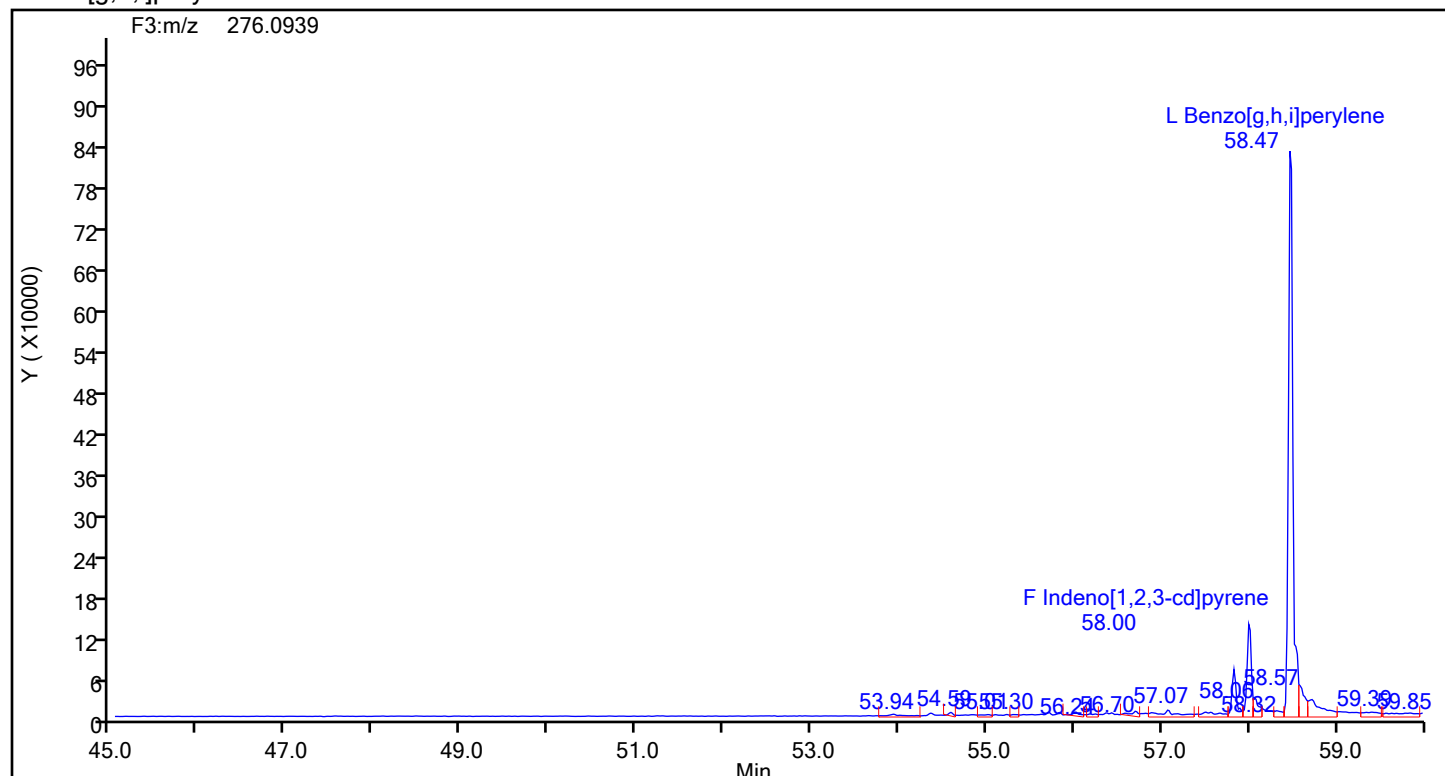
Worklist#: 88048

Sample Line#: 8

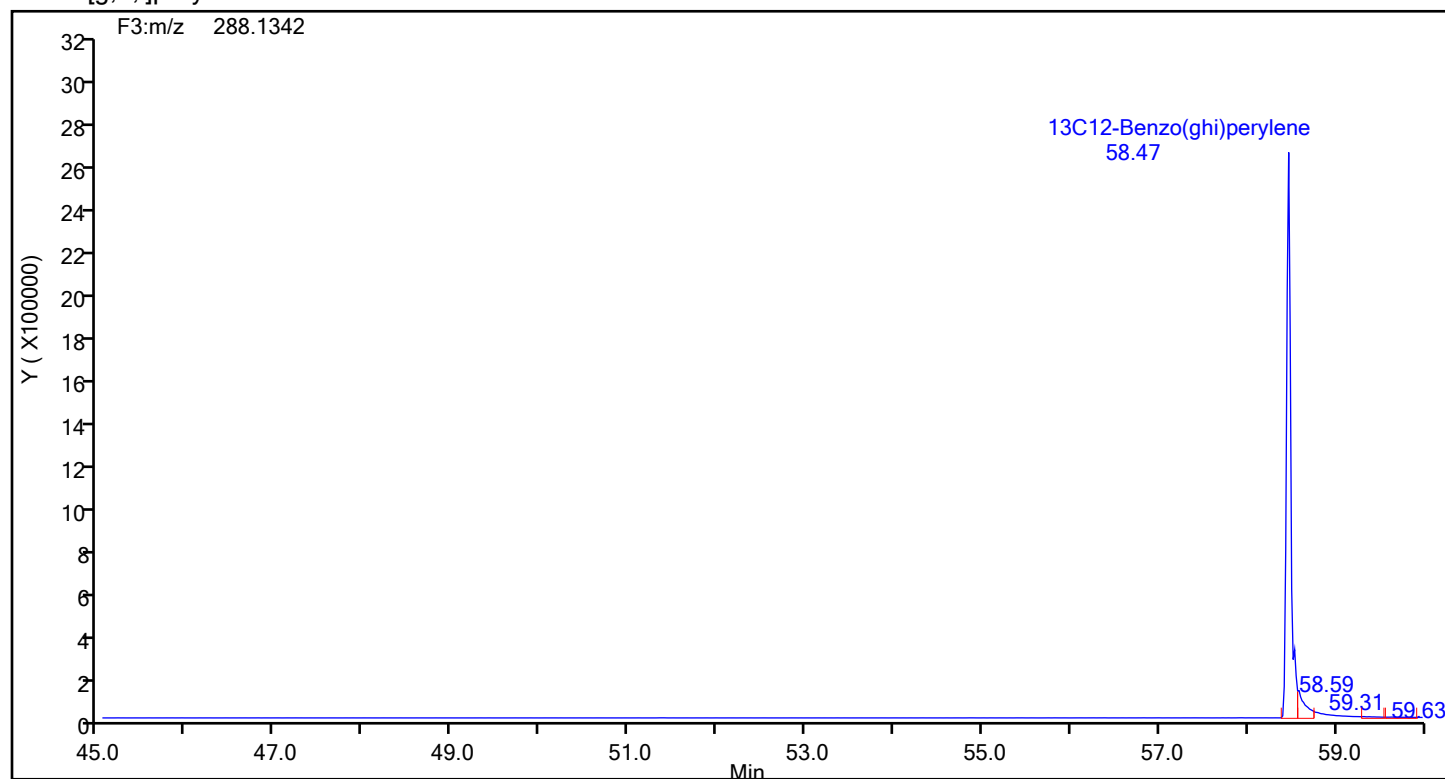
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



Eurofins Knoxville

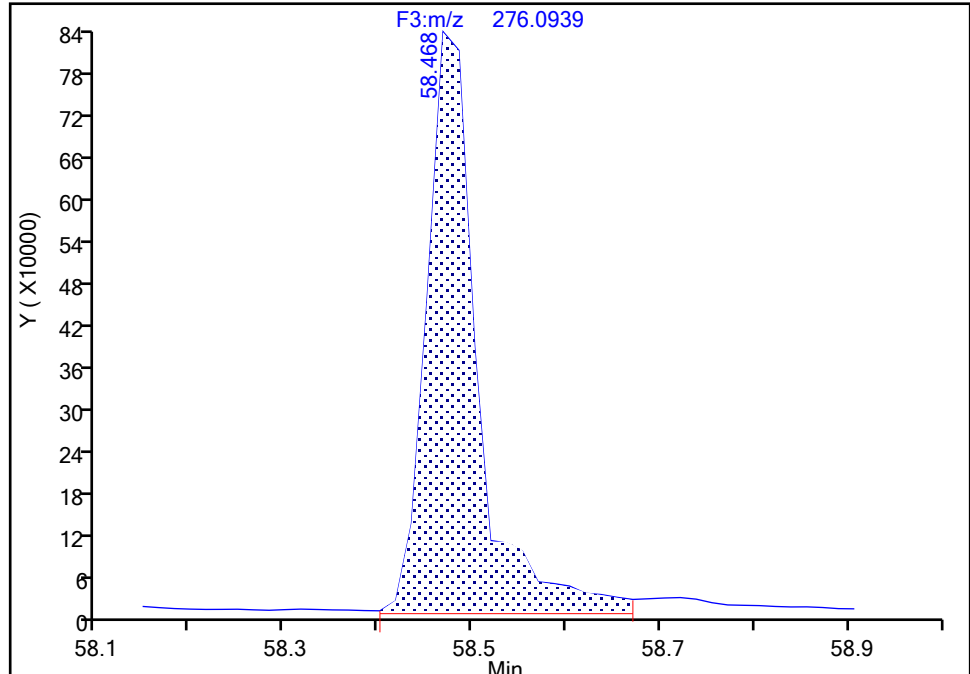
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-7-D Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

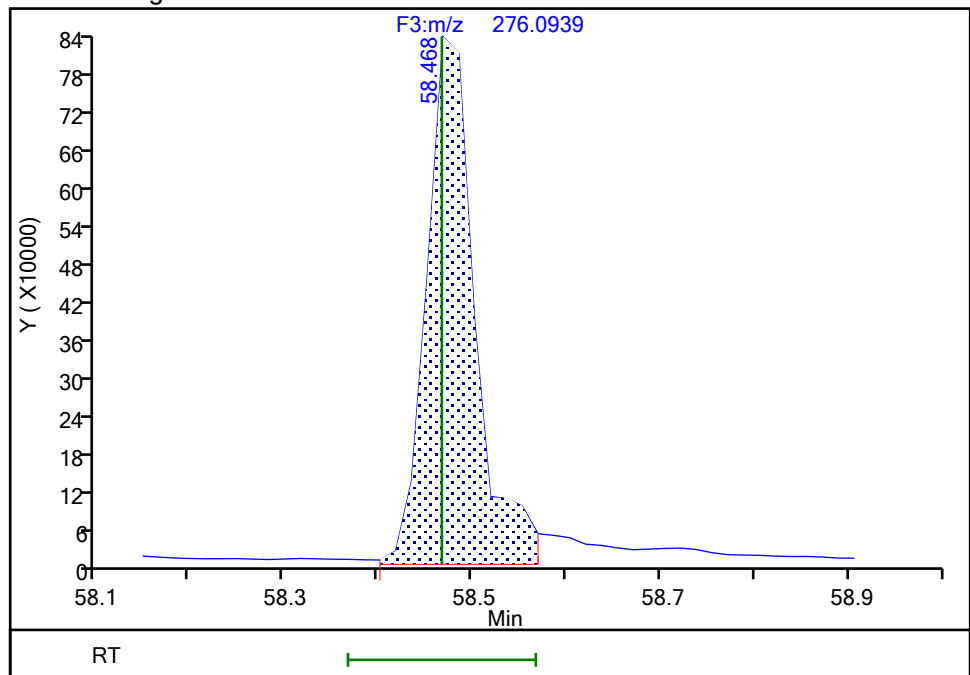
RT: 58.47
Area: 3175248
Amount: 27.281190
Amount Units: pg/ul

Processing Integration Results



RT: 58.47
Area: 2996360
Amount: 25.744214
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:33:36 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

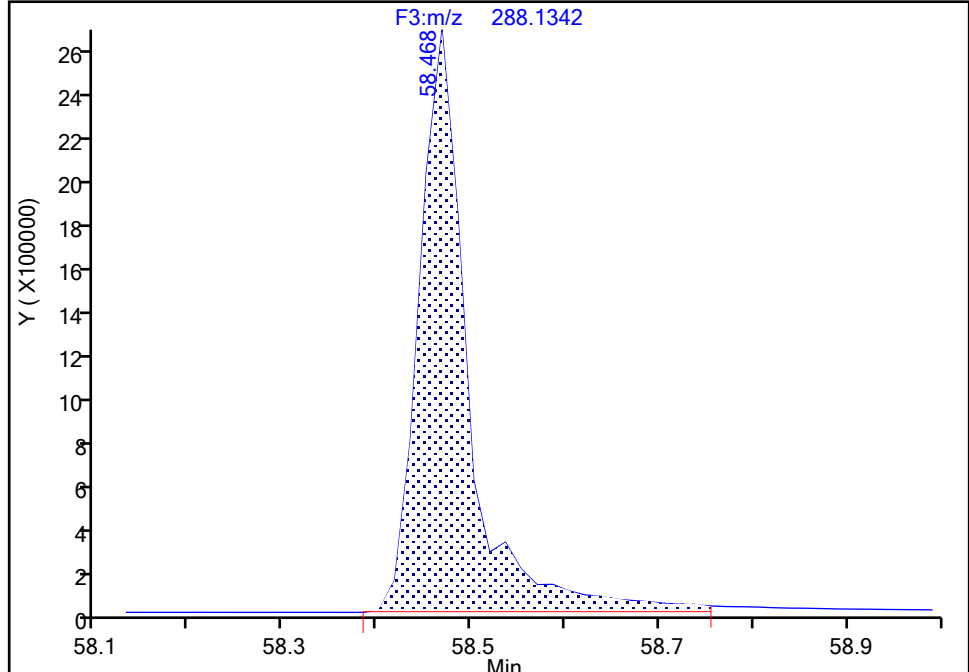
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Injection Date: 25-Jun-2024 03:58:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-7-D Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

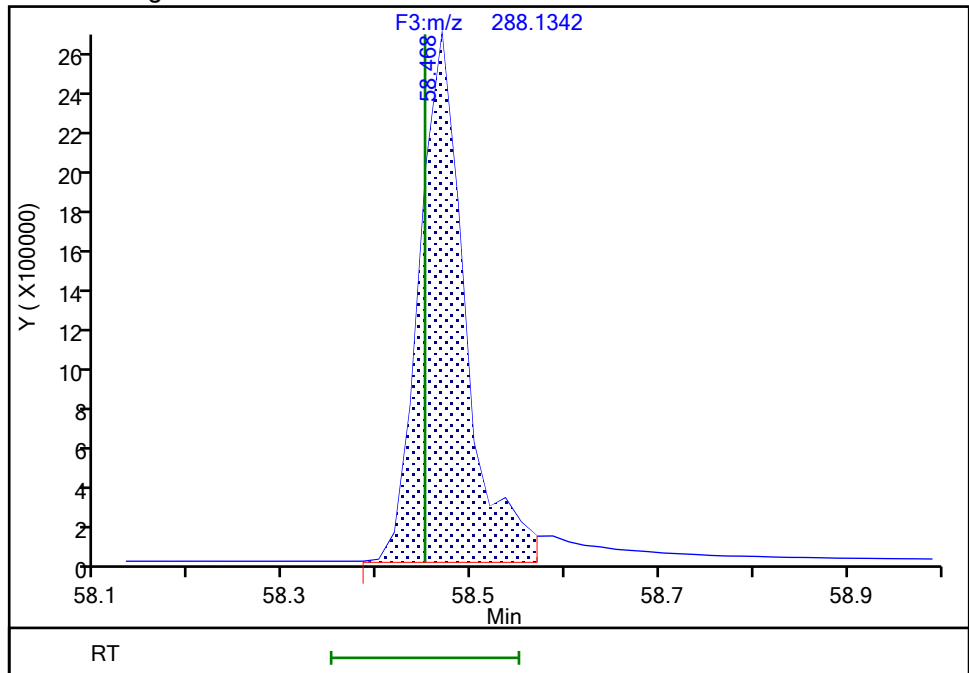
RT: 58.47
Area: 9748778
Amount: 90.469566
Amount Units: pg/ul

Processing Integration Results



RT: 58.47
Area: 9066338
Amount: 84.136460
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:33:31 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-7-d.d
Lims ID: 140-36689-A-7-D
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Sample Type: Client
Inject. Date: 25-Jun-2024 03:58:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033236-008
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 26-Jun-2024 02:52:31 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1677

First Level Reviewer: F9EE

Date: 25-Jun-2024 11:33:39

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	5.71	57.10
13C6-Benzo(c)fluorene	66.7	63.6	95.36
13C12-Benzo(j)fluoranthene	66.7	59.6	89.40

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN FB COMBINED</u>	Lab Sample ID: <u>140-36689-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-8-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/08/2024 13:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/25/2024 05:02</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88048</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	145	B	75.0	75.0	1.99
91-57-6	2-Methylnaphthalene	123	B	75.0	75.0	1.56
208-96-8	Acenaphthylene	14.7	B	3.00	3.00	1.04
83-32-9	Acenaphthene	68.9	B	30.0	30.0	1.63
86-73-7	Fluorene	136	B	30.0	30.0	1.32
85-01-8	Phenanthrene	341	B	6.00	6.00	1.58
120-12-7	Anthracene	47.7	B	30.0	30.0	1.61
206-44-0	Fluoranthene	31.8	B	6.00	6.00	0.593
129-00-0	Pyrene	27.4	B	6.00	6.00	0.629
56-55-3	Benzo[a]anthracene	ND		6.00	6.00	0.526
218-01-9	Chrysene	1.07	J B	6.00	6.00	0.522
205-99-2	Benzo[b]fluoranthene	ND		30.0	30.0	0.304
207-08-9	Benzo[k]fluoranthene	ND		6.00	6.00	0.259
192-97-2	Benzo[e]pyrene	ND		6.00	6.00	0.215
50-32-8	Benzo[a]pyrene	ND		3.00	3.00	0.238
198-55-0	Perylene	ND		3.00	3.00	0.197
193-39-5	Indeno[1,2,3-cd]pyrene	ND		3.00	3.00	0.244
53-70-3	Dibenz(a,h)anthracene	ND		6.00	6.00	0.168
191-24-2	Benzo[g,h,i]perylene	ND		6.00	6.00	0.202

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN FB COMBINED</u>	Lab Sample ID: <u>140-36689-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-8-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/08/2024 13:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/25/2024 05:02</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88048</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	53		20-130
STL03357	13C6-2-Methylnaphthalene	57		20-130
189811-56-1	13C6-Acenaphthylene	71		20-130
189811-57-2	13C6-Acenaphthene	67		20-130
STL00616	13C6-Fluorene	80		20-130
1397194-60-3	13C6-Fluoranthrene	91		20-130
1397214-90-2	13C3-Pyrene	88		20-130
917378-11-1	13C6-Benzo (a) anthracene	61		20-130
1397177-72-8	13C6-Chrysene	58		20-130
STL03358	13C6-Benzo (b) fluoranthene	75		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	86		20-130
STL03382	13C4-Benzo (e) pyrene	81		20-130
STL03359	13C4-Benzo (a) pyrene	91		20-130
1520-96-3	Perylene-d12	96		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	82		20-130
STL03360	13C6-Dibenz (a,h) anthracene	88		20-130
350820-11-0	13C12-Benzo (ghi) perylene	88		20-130
189811-60-7	13C6-Anthracene	109		20-130
1189955-53-0	13C6-Phenanthrene	95		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-8-d.d
Lims ID: 140-36689-A-8-D
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Sample Type: Client
Inject. Date: 25-Jun-2024 05:02:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033236-009
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 26-Jun-2024 02:52:50 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1677

First Level Reviewer: F9EE

Date: 25-Jun-2024 11:37:31

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:28	286973		3.3746	52.5	52.5	0.0662	0.0662	52.55	a
Naphthalene	11:28	358491		1.2893	96.9	96.9	1.324	1.324		a
D 13C6-2-Methylnaphthalene	13:50	147157		1.6031	56.7	56.7	0.0357	0.0357	56.72	
2-Methylnaphthalene	13:51	154776		1.2786	82.3	82.3	1.043	1.043		
D 13C6-Acenaphthylene	16:44	191088		1.6520	71.5	71.5	0.0716	0.0716	71.47	
Acenaphthylene	16:45	24576		2.3661	9.820	9.820	0.6946	0.6946		M
* Acenaphthene-d10	17:19	80921		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:26	105773		0.9792	66.7	66.7	0.0585	0.0585	66.75	
Acenaphthene	17:26	61687		1.2697	45.9	45.9	1.085	1.085		
Fluorene	19:44	130081		1.2532	90.5	90.5	0.8799	0.8799		
D 13C6-Fluorene	19:44	114654		0.8898	79.6	79.6	0.0686	0.0686	79.61	
D 13C6-Phenanthrene	25:08	196415		0.5724	95.0	95.0	0.0192	0.0192	94.98	
Phenanthrene	25:08	493138		1.1044	227.3	227.3	1.056	1.056		
\$ Anthracin-d10	25:20	18541		0.4257	12.1	12.1	0.0185	0.0185	121	a
D 13C6-Anthracene	25:27	177442		0.4523	108.6	108.6	0.0243	0.0243	109	
Anthracene	25:27	76691		1.3586	31.8	31.8	1.074	1.074		
D 13C6-Fluoranthrene	33:52	392876		1.1994	90.7	90.7	0.6845	0.6845	90.68	
Fluoranthene	33:53	96038		1.1513	21.2	21.2	0.3955	0.3955		
* Pyrene-d10	35:25	180624		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:34	430716		1.3512	88.2	88.2	0.2351	0.2351	88.24	
Pyrene	35:34	83848		1.0652	18.3	18.3	0.4192	0.4192		
\$ 13C6-Benzo(c)fluorene	39:17	135571		0.5136	73.1	73.1	0.1225	0.1225	110	
D 13C6-Benzo(a)anthracene	46:06	329749		1.5189	61.5	61.5	0.1601	0.1601	61.45	
Benzo[a]anthracene	46:04						0.3506	0.3506		
D 13C6-Chrysene	46:23	334398		1.6287	58.1	58.1	0.1493	0.1493	58.12	
Chrysene	46:22	2351		0.9815	0.7163	0.7163	0.3478	0.3478		
D 13C6-Benzo(b)fluoranthene	54:39	386421		1.4621	74.8	74.8	0.0534	0.0534	74.82	
Benzo[b]fluoranthene	54:37						0.2024	0.2024		
\$ 13C12-Benzo(j)fluoranthene	54:41	265207		1.3558	55.4	55.4	0.6165	0.6165	83.06	M
D 13C6-Benzo(k)fluoranthene	54:46	531045		1.7507	85.9	85.9	0.0446	0.0446	85.87	
Benzo[k]fluoranthene	54:44						0.1729	0.1729		
* Benzo(e)pyrene-d12	55:30	176629		5.7E+04	50.0	50.0				
D 13C4-Benzo(e)pyrene	55:34	468147		1.6368	81.0	81.0	0.0990	0.0990	80.96	
Benzo[e]pyrene	55:33						0.1432	0.1432		U

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[a]pyrene	55:41						0.1587	0.1587		
D 13C4-Benzo(a)pyrene	55:43	497506		1.5508	90.8	90.8	0.1045	0.1045	90.81	
D Perylene-d12	55:54	405367		1.1917	96.3	96.3	0.5738	0.5738	96.29	
Perylene	55:55						0.1315	0.1315		U
D 13C6-Indeno(1,2,3-cd)pyrene	58:02	294428		1.0218	81.6	81.6	0.2994	0.2994	81.56	a
Indeno[1,2,3-cd]pyrene	58:04						0.1630	0.1630		
D 13C6-Dibenz(a,h)anthracene	58:06	327796		1.0553	87.9	87.9	0.1267	0.1267	87.93	M
Dibenz(a,h)anthracene	58:04						0.1119	0.1119		U
D 13C12-Benzo(ghi)perylene	58:30	395457		1.2749	87.8	87.8	0.0517	0.0517	87.81	M
Benzo[g,h,i]perylene	58:29						0.1344	0.1344		U

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-8-d.d
Lims ID: 140-36689-A-8-D
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Sample Type: Client
Inject. Date: 25-Jun-2024 05:02:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033236-009
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 26-Jun-2024 02:52:50 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1677

First Level Reviewer: F9EE

Date: 25-Jun-2024 11:37:31

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											a
134.0828	11:28	11:28	-4	0.662	286973	92993	47	117	1979		a
Naphthalene											a
128.0626	11:28	11:28	-4	1.001	358491	112505	635	1587	177		a
13C6-2-Methylnaphthalene											
148.0984	13:50	13:50	-1	0.799	147157	60888	12	30	5074		
2-Methylnaphthalene											
142.0783	13:51	13:51	-1	1.001	154776	64154	325	812	197		
13C6-Acenaphthylene											
158.0828	16:44	16:43	0	0.966	191088	62594	25	62	2504		
Acenaphthylene											M
152.0626	16:45	16:44	1	1.000	24576	7684	215	537	36		M
Acenaphthene-d10											
164.1404	17:19	17:18	1		80921	26193	10	25	2619		
13C6-Acenaphthene											
160.0984	17:26	17:25	0	1.007	105773	32676	12	30	2723		
Acenaphthene											
154.0783	17:26	17:25	0	1.000	61687	19098	180	450	106		
Fluorene											
166.0783	19:44	19:42	1	1.000	130081	31069	155	387	200		
13C6-Fluorene											
172.0984	19:44	19:43	1	1.140	114654	35097	13	32	2700		
13C6-Phenanthrene											
184.0984	25:08	25:06	1	0.709	196415	43309	3	7	14436		
Phenanthrene											
178.0783	25:08	25:06	1	1.000	493138	103773	202	505	514		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											a
188.1410	25:20	25:20	1	0.715	18541	4448	2	5	2224		a
13C6-Anthracene											
184.0984	25:27	25:25	1	0.718	177442	34618	3	7	11539		E
Anthracene											
178.0783	25:27	25:27	1	1.000	76691	13316	202	505	66		
13C6-Fluoranthrene											
208.0984	33:52	33:50	2	0.956	392876	69610	209	522	333		
Fluoranthene											
202.0783	33:53	33:52	2	1.000	96038	17279	127	317	136		
Pyrene-d10											
212.1404	35:25	35:24	1		180624	31793	17	42	1870		
13C3-Pyrene											
205.0883	35:34	35:32	1	1.004	430716	70990	81	202	876		
Pyrene											
202.0783	35:34	35:32	1	1.000	83848	13952	127	317	110		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:16	2	0.708	135571	23106	16	40	1444		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:03	3	1.302	329749	48915	96	240	510		
Benzo[a]anthracene											
228.0939	46:05						67	167			
13C6-Chrysene											
234.1140	46:23	46:19	3	1.309	334398	48921	96	240	510		
Chrysene											
228.0939	46:22	46:21	2	1.000	2351	483	67	167	7		
13C6-Benzo(b)fluoranthene											
258.1140	54:39	54:38	2	0.985	386421	88699	31	77	2861		
Benzo[b]fluoranthene											
252.0939	54:39						81	202			
13C12-Benzo(j)fluoranthene											M
264.1336	54:41	54:41	2	0.985	265207	59062	330	825	179		M
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:45	2	0.987	531045	103631	31	77	3343		
Benzo[k]fluoranthene											
252.0939	54:46						81	202			
Benzo(e)pyrene-d12											
264.1692	55:30	55:28	3		176629	49353	270	675	183		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:34	2	1.001	468147	140846	64	160	2201		
Benzo[e]pyrene											U
252.0939	55:34						81	202			
Benzo[a]pyrene											
252.0939	55:38						81	202			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:42	3	1.004	497506	114374	64	160	1787		
Perylene-d12											
264.1692	55:54	55:52	3	1.007	405367	107376	270	675	398		
Perylene											U
252.0939	55:52						81	202			
13C6-Indeno(1,2,3-cd)pyrene											a
282.1140	58:02	58:00	-2	1.046	294428	81809	121	302	676		a
Indeno[1,2,3-cd]pyrene											
276.0939	58:00						60	150			
13C6-Dibenz(a,h)anthracene											M
284.1296	58:06	58:04	2	1.047	327796	68743	53	132	1297		M
Dibenz(a,h)anthracene											U
278.1096	58:04						35	87			
13C12-Benzo(ghi)perylene											M
288.1342	58:30	58:28	3	1.054	395457	86965	26	65	3345		M
Benzo[g,h,i]perylene											U
276.0939	58:28						60	150			

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

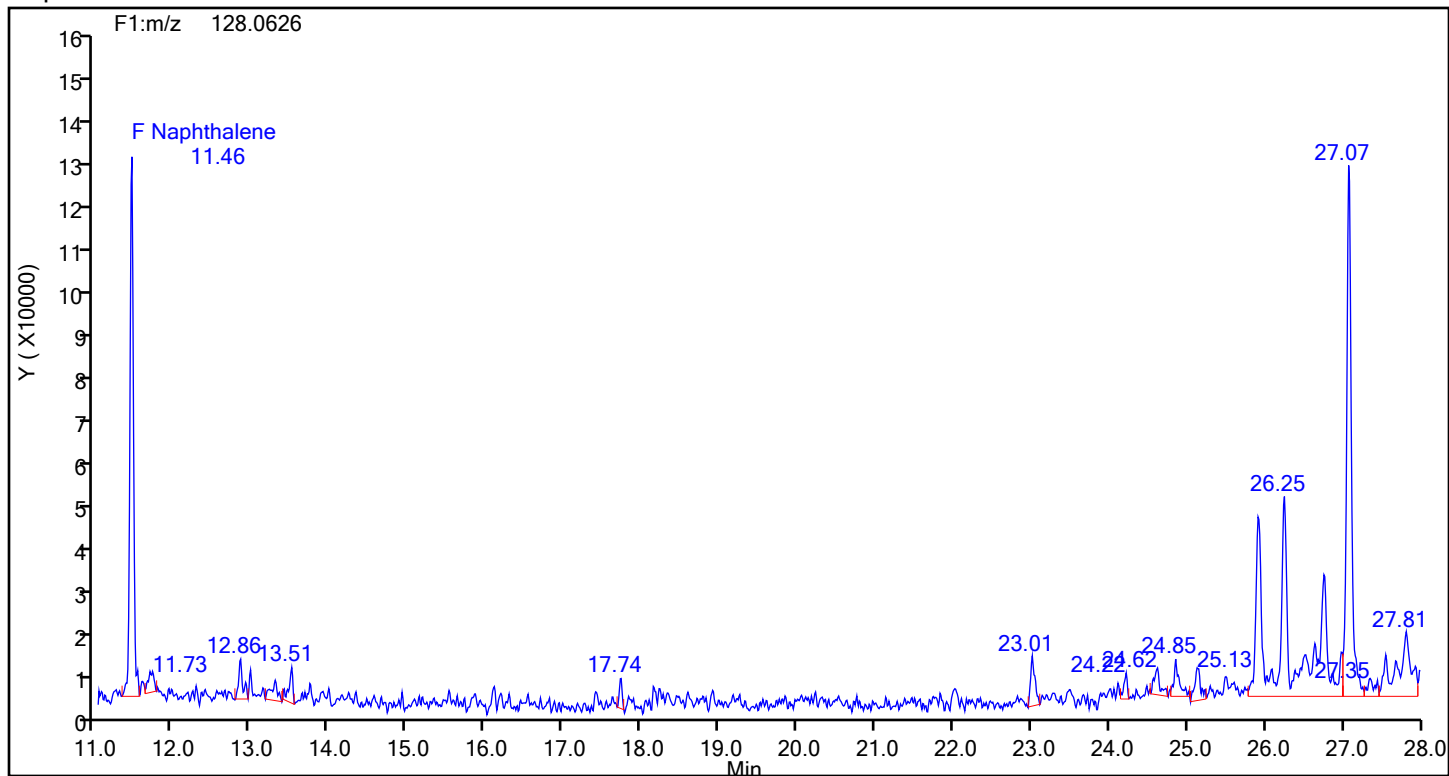
U - Marked Undetected

a - User Assigned ID

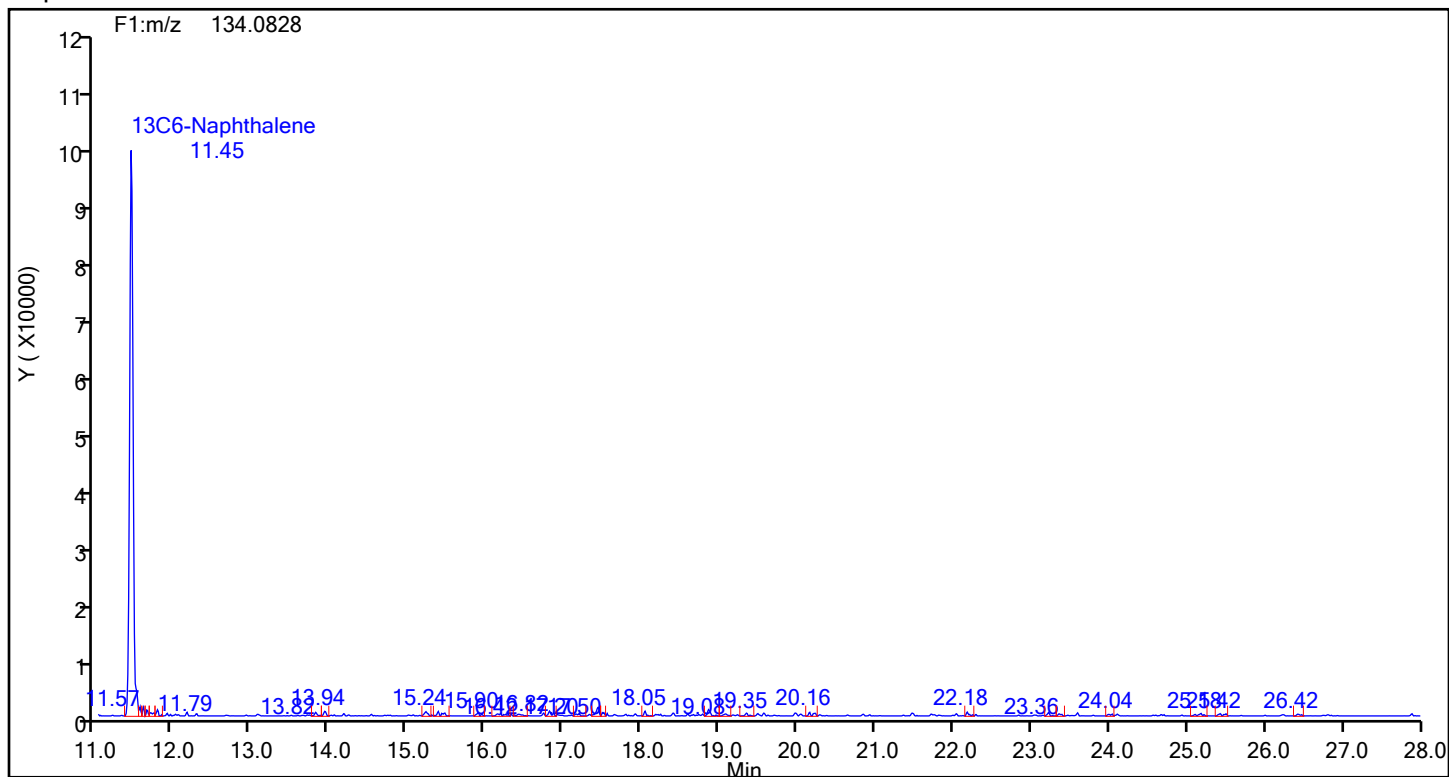
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-8-d.d
Injection Date: 25-Jun-2024 05:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

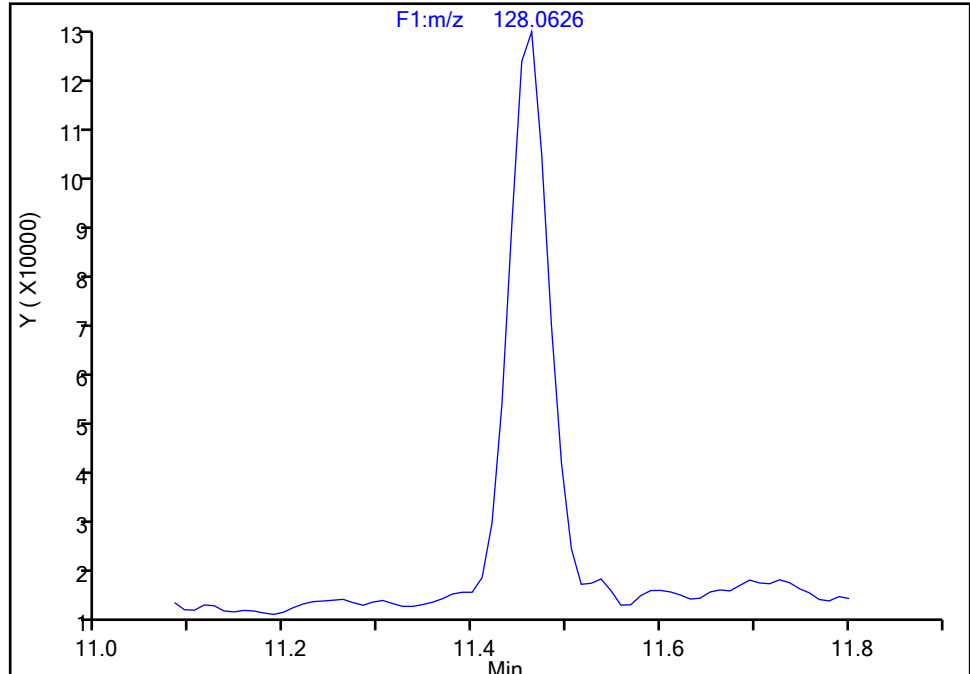
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-8-d.d
Injection Date: 25-Jun-2024 05:02:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-8-D Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Naphthalene, CAS: 91-20-3

Signal: 1

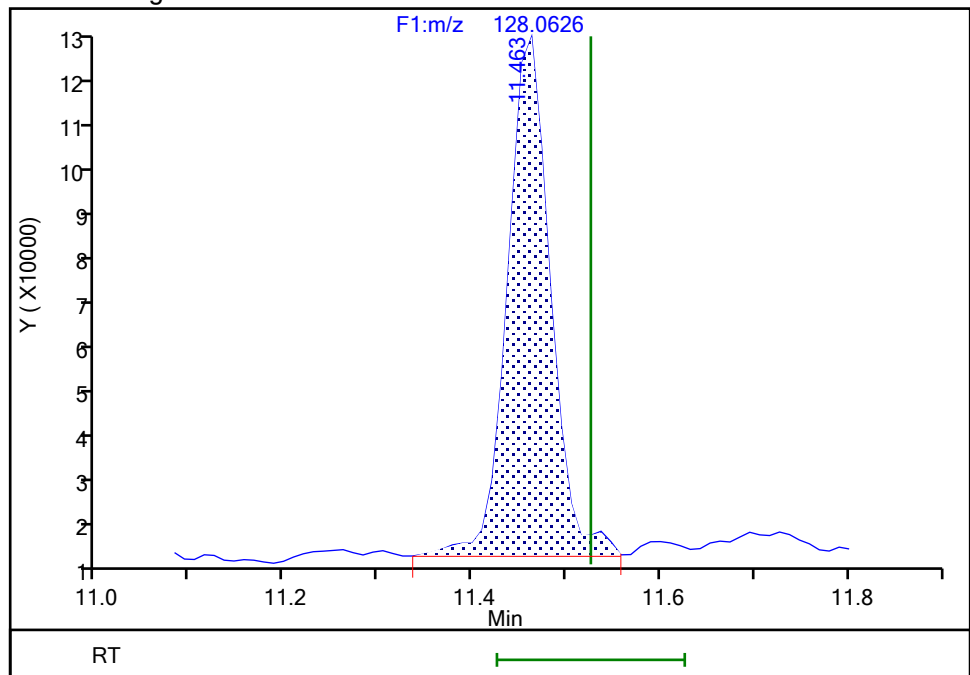
Not Detected
Expected RT: 11.53

Processing Integration Results



RT: 11.46
Area: 358491
Amount: 96.893975
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:34:10 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

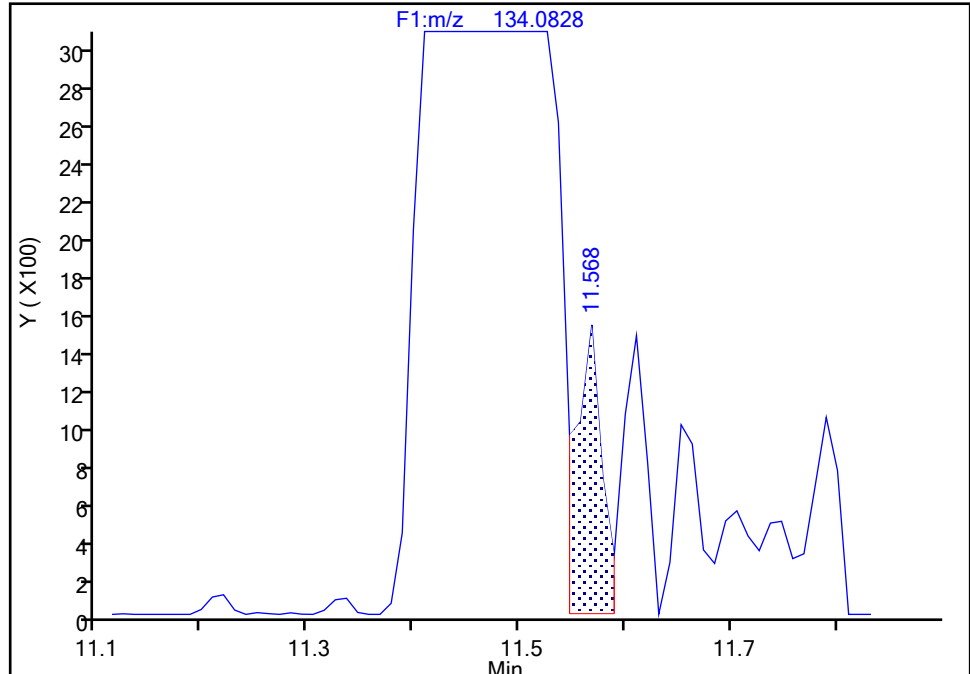
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Injection Date: 25-Jun-2024 05:02:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-8-D Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

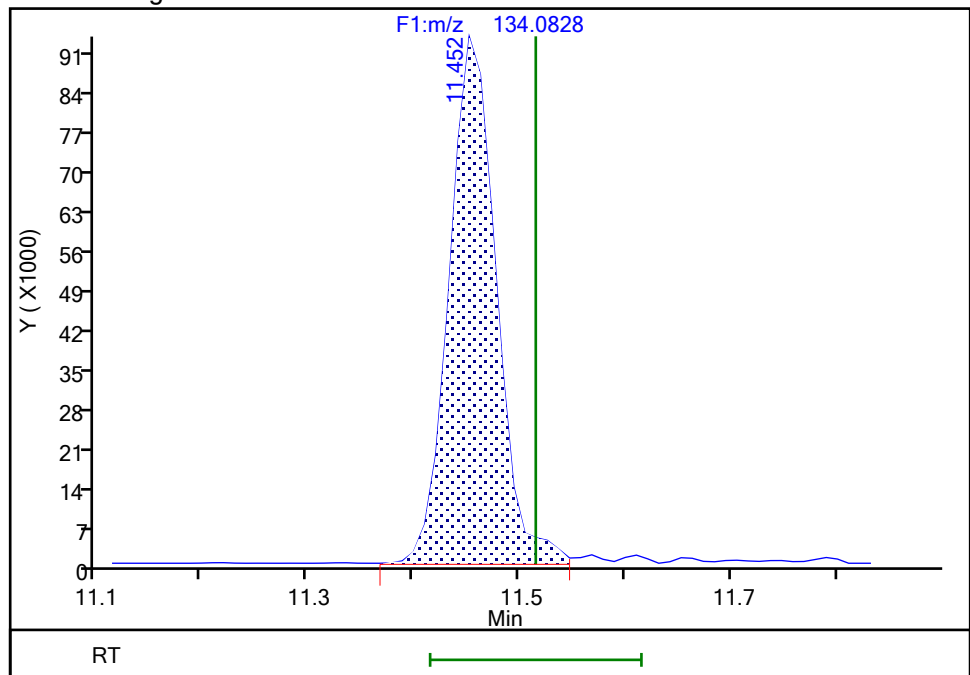
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Amount: 0.440175
Amount Units: pg/ul

Processing Integration Results



RT: 11.45
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Amount: 52.545037
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:34:34 -04:00:00 (UTC)

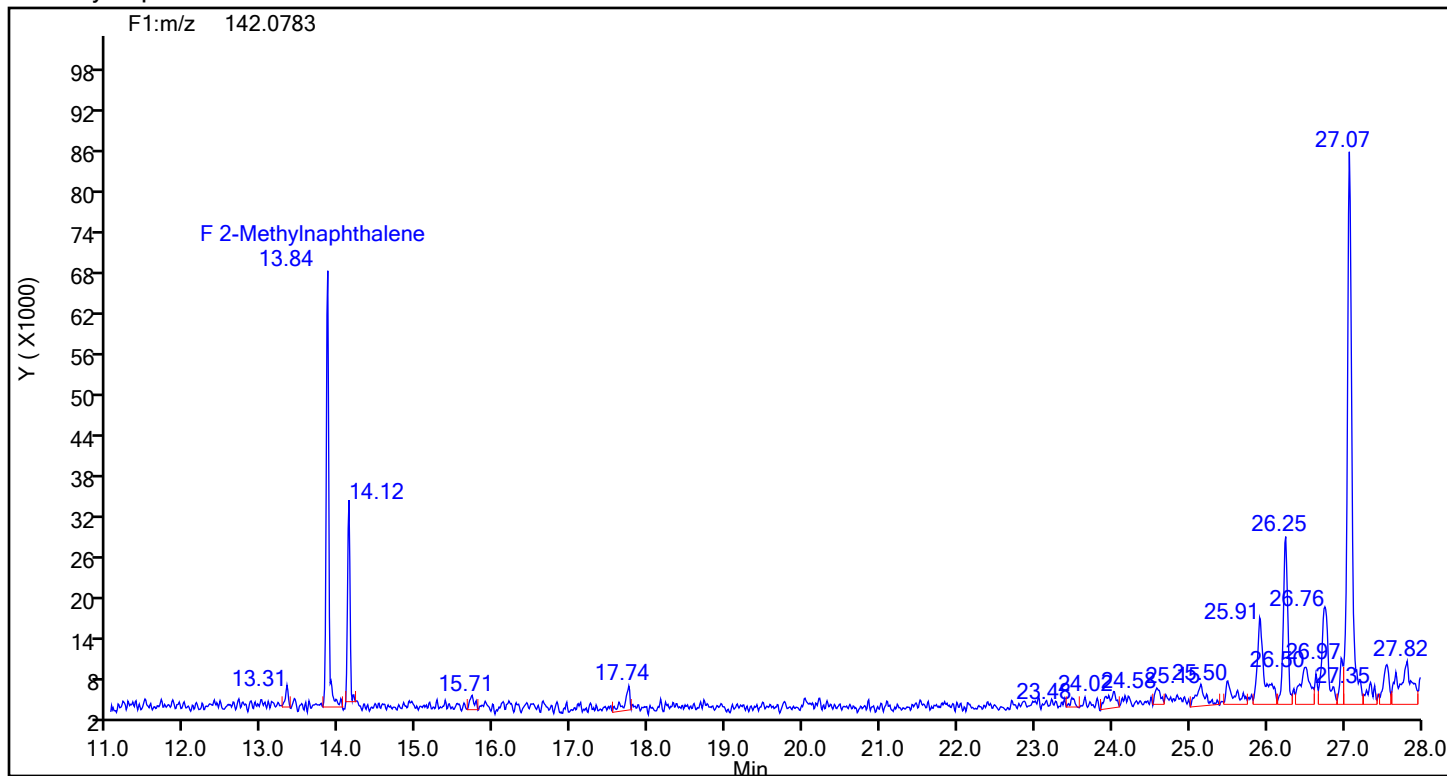
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

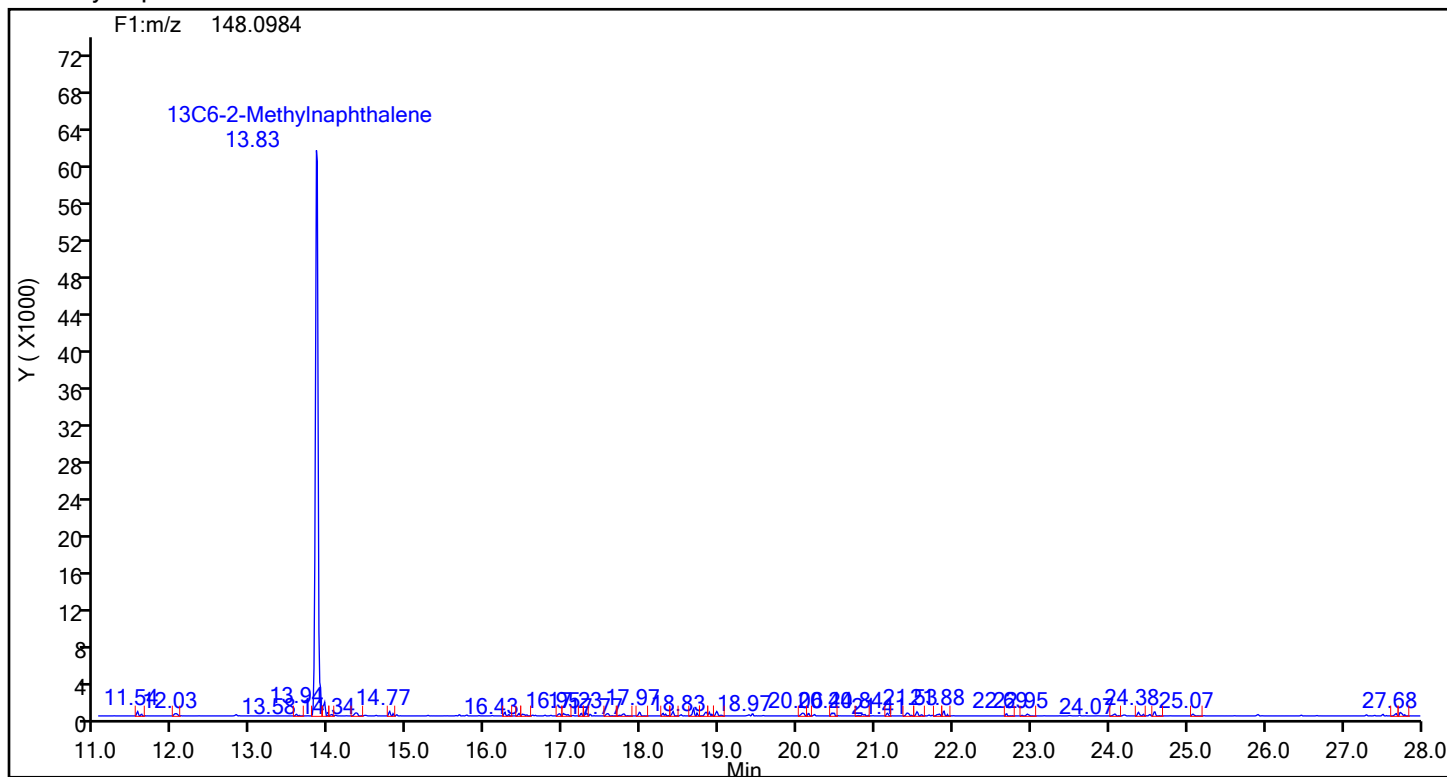
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



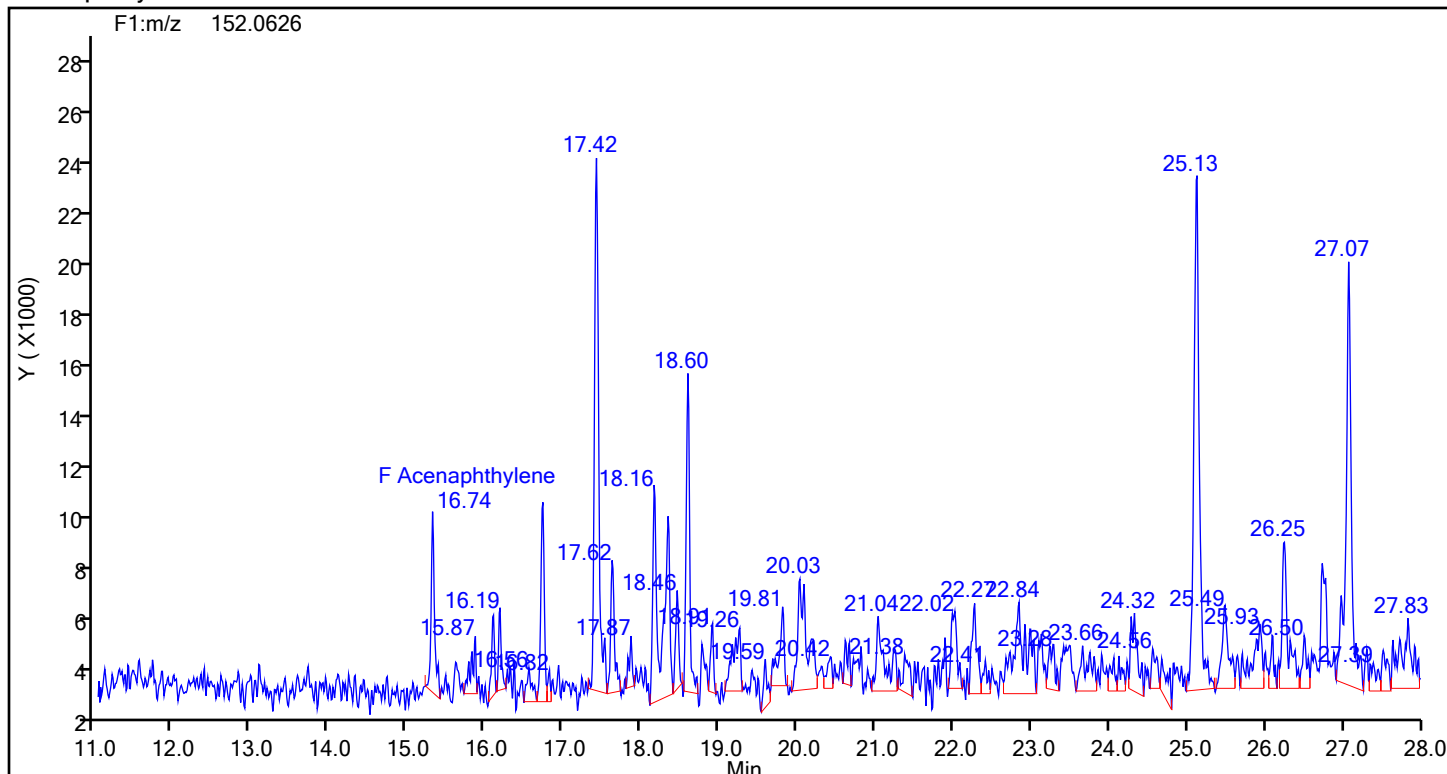
2-Methylnaphthalene Standards



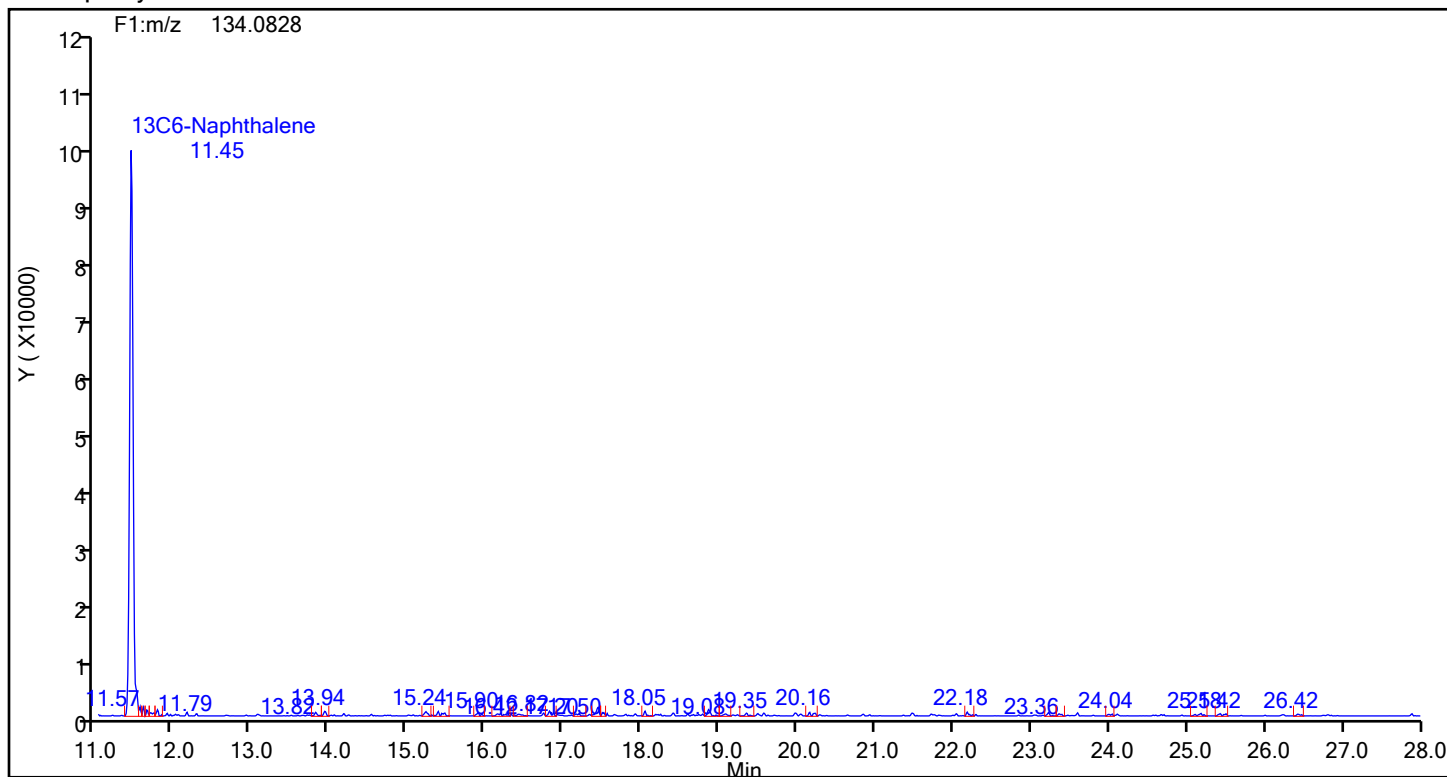
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

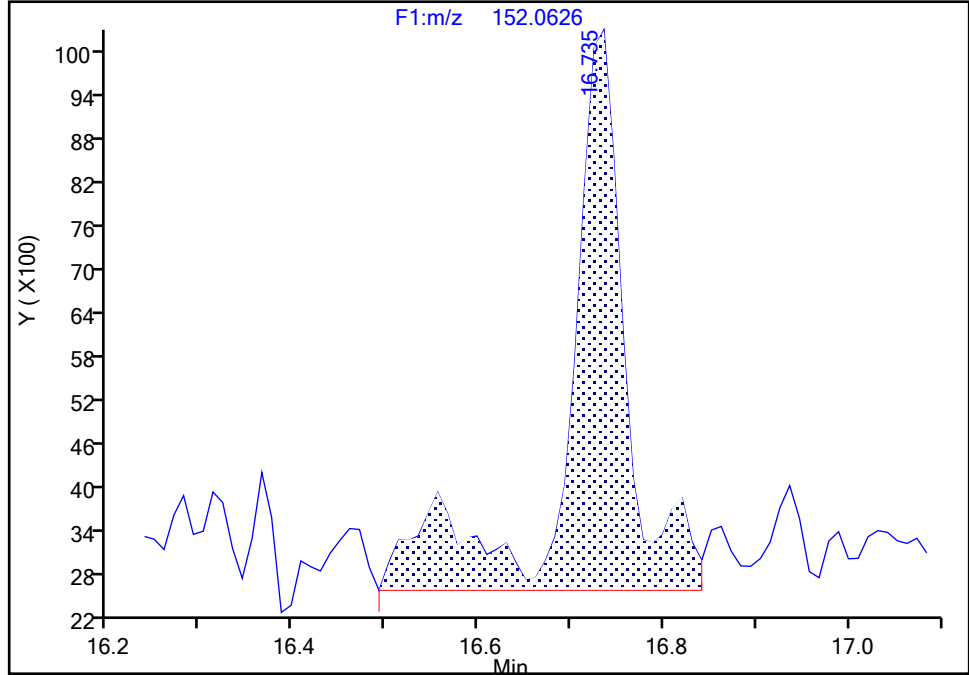
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Lims ID: 140-36689-A-8-D Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Acenaphthylene, CAS: 208-96-8

Signal: 1

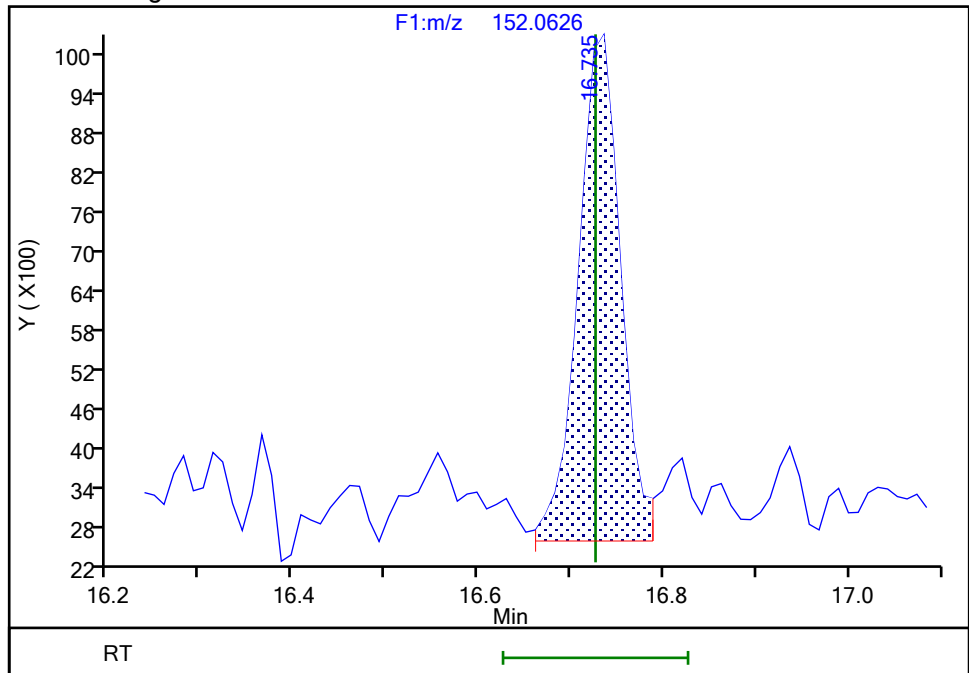
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Amount Units: pg/ul

Processing Integration Results



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Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:34:48 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

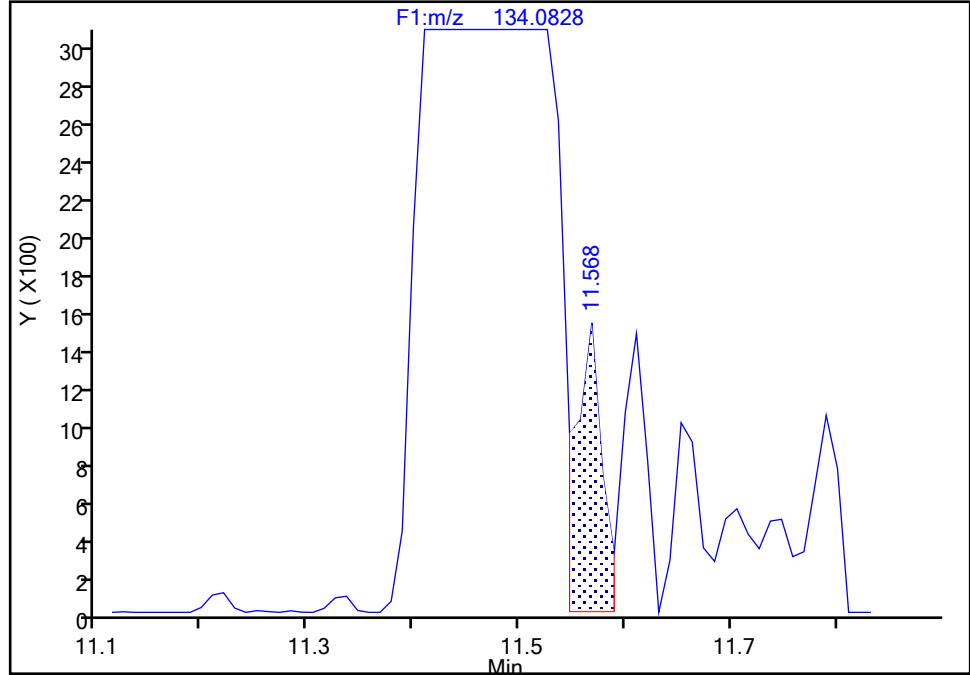
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Lims ID: 140-36689-A-8-D Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

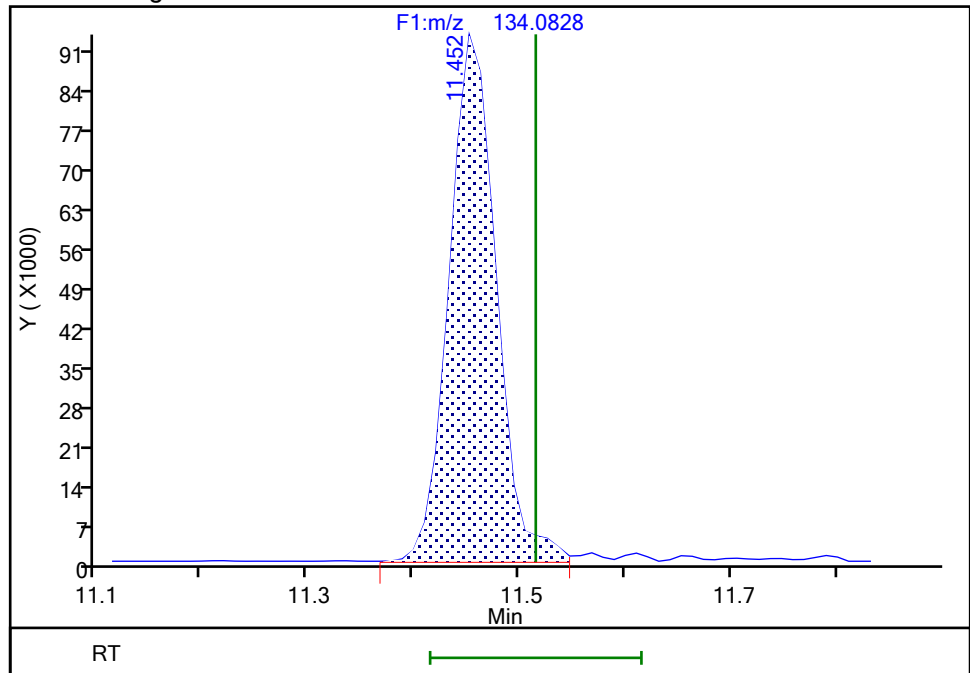
RT: 11.57
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Amount: 0.440175
Amount Units: pg/ul

Processing Integration Results



RT: 11.45
Area: 286973
Amount: 52.545037
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:34:34 -04:00:00 (UTC)

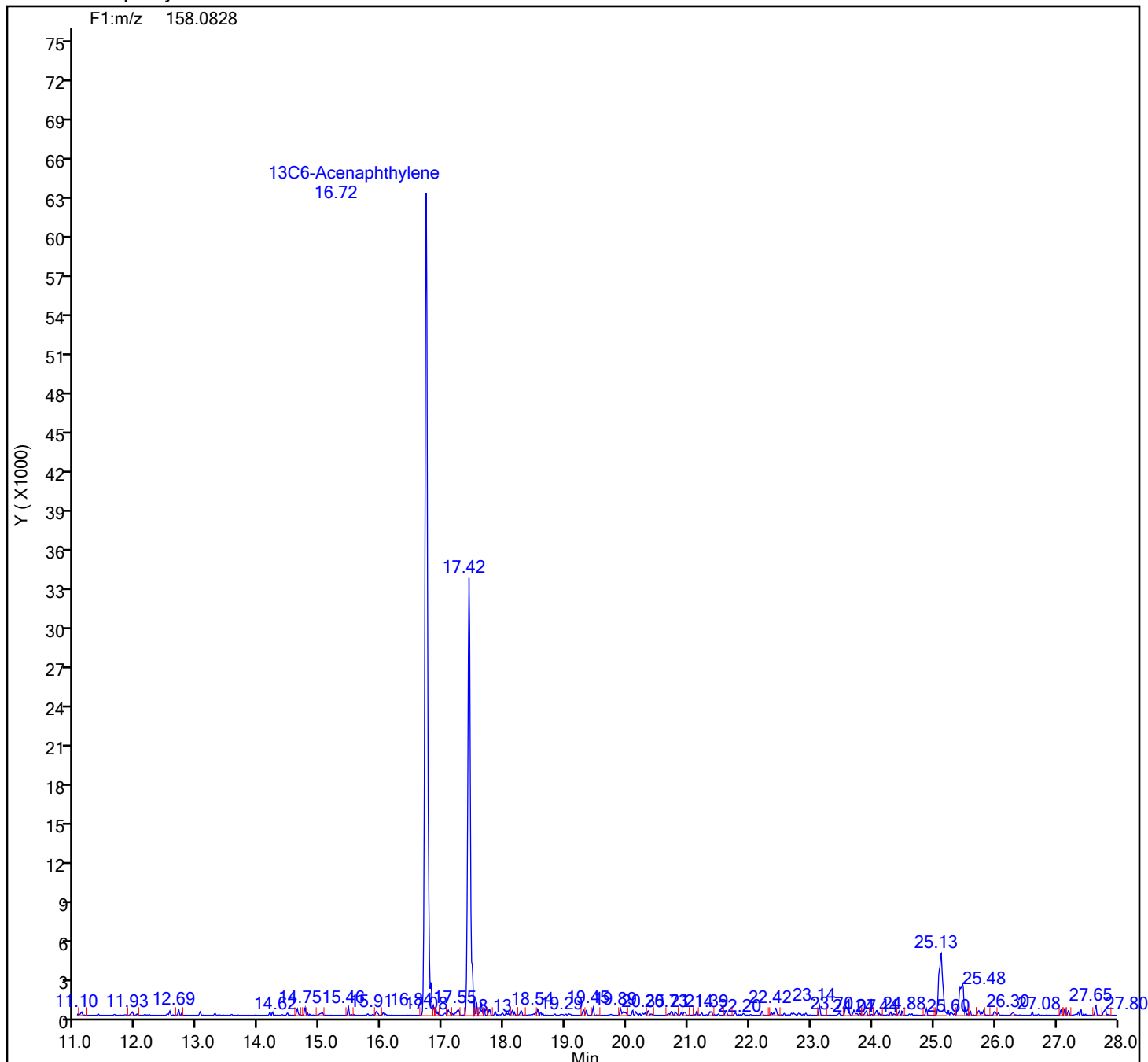
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
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Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

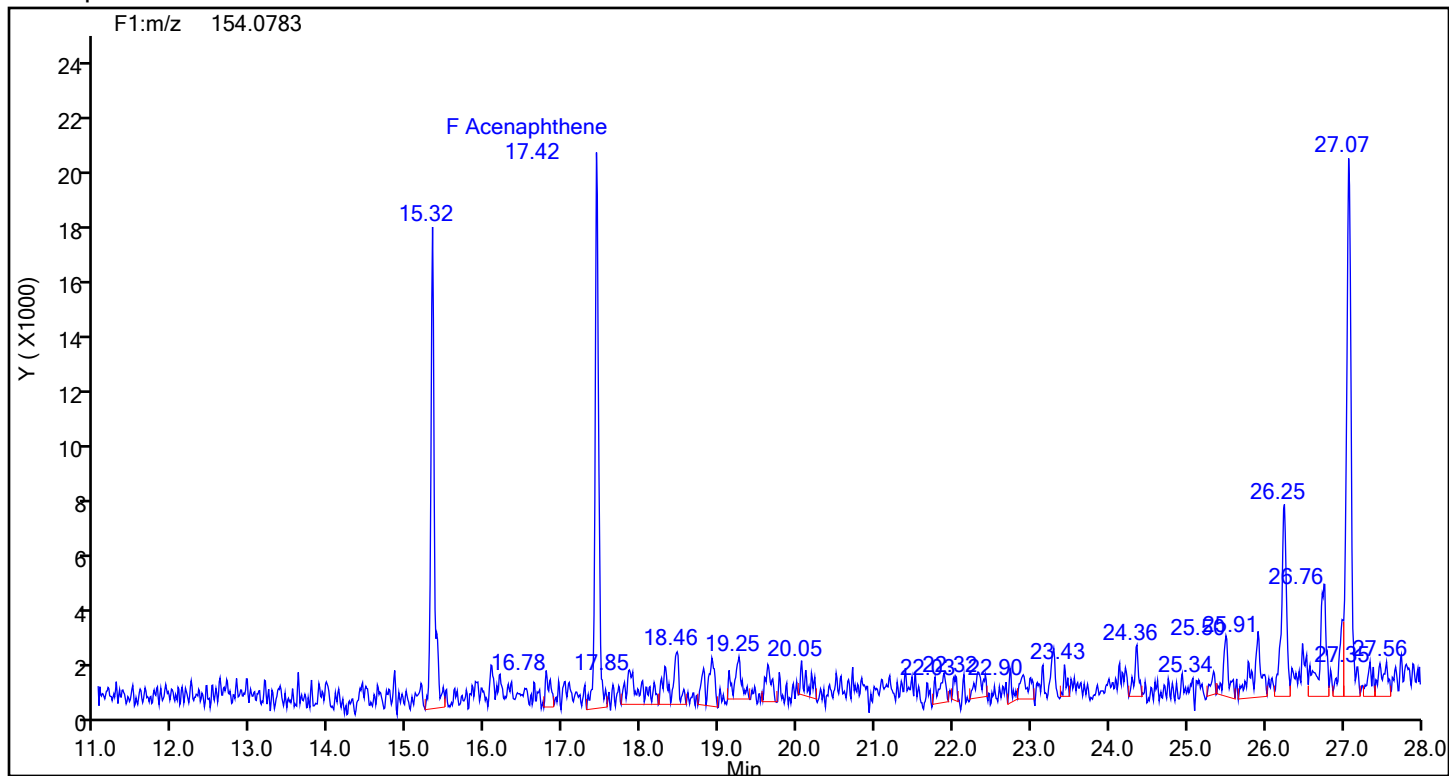
13C6-Acenaphthylene Standards



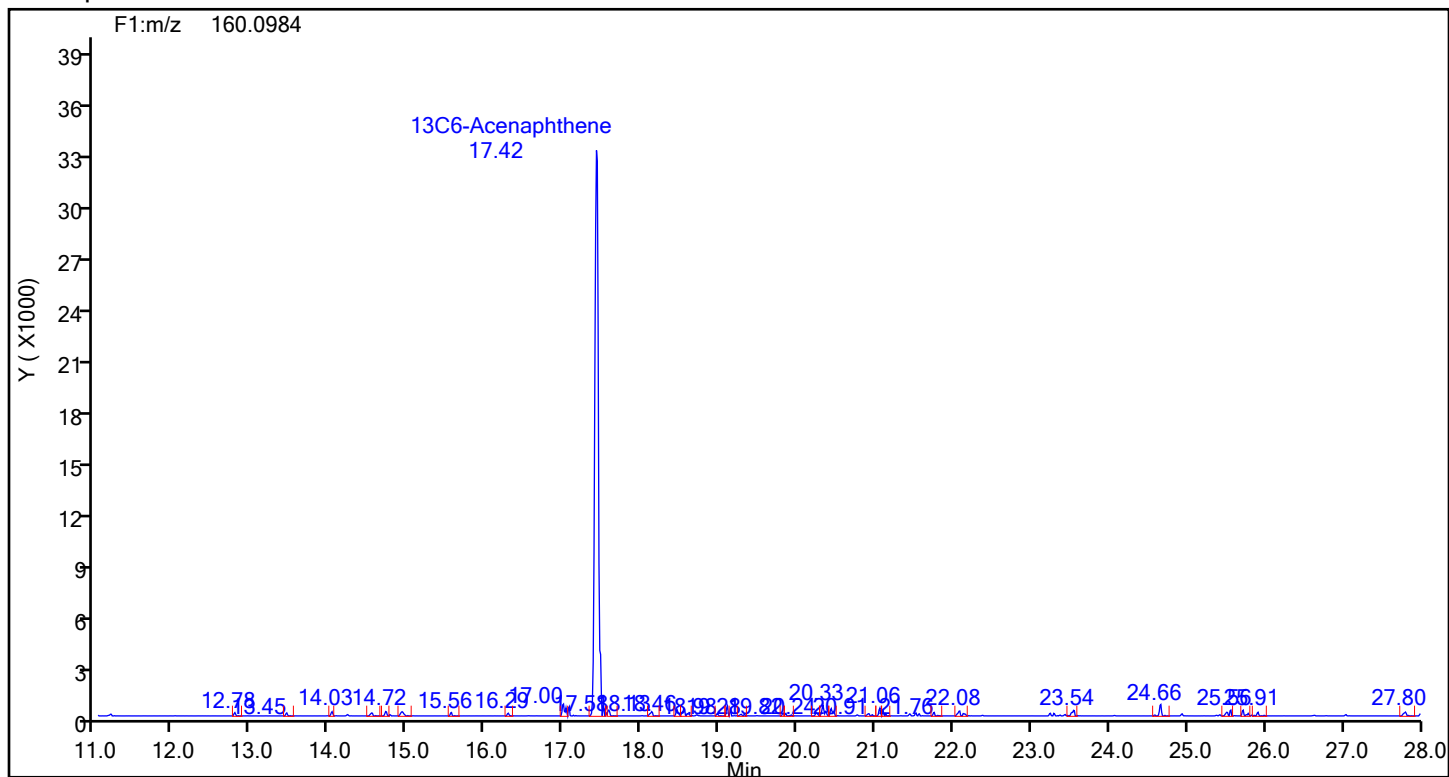
Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



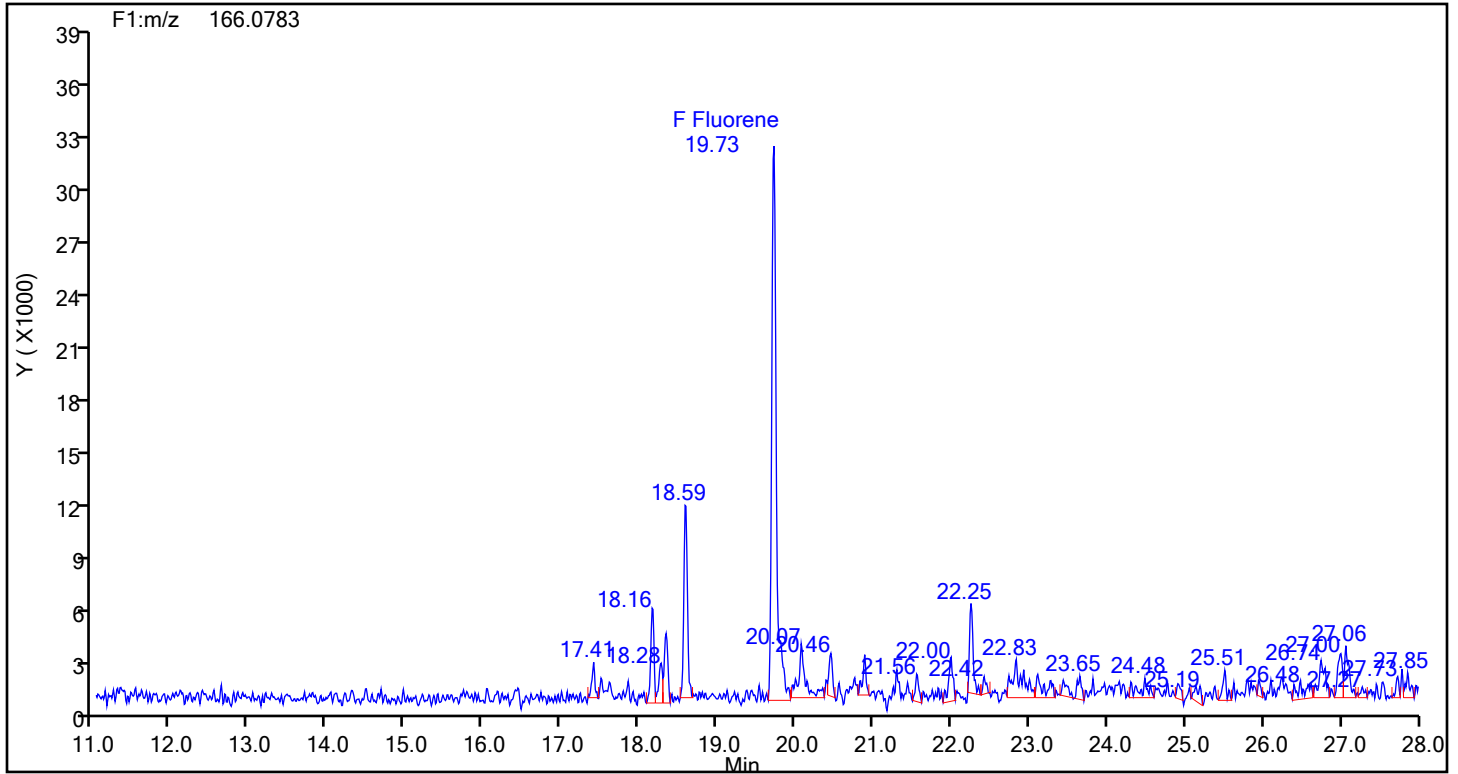
Acenaphthene Standards



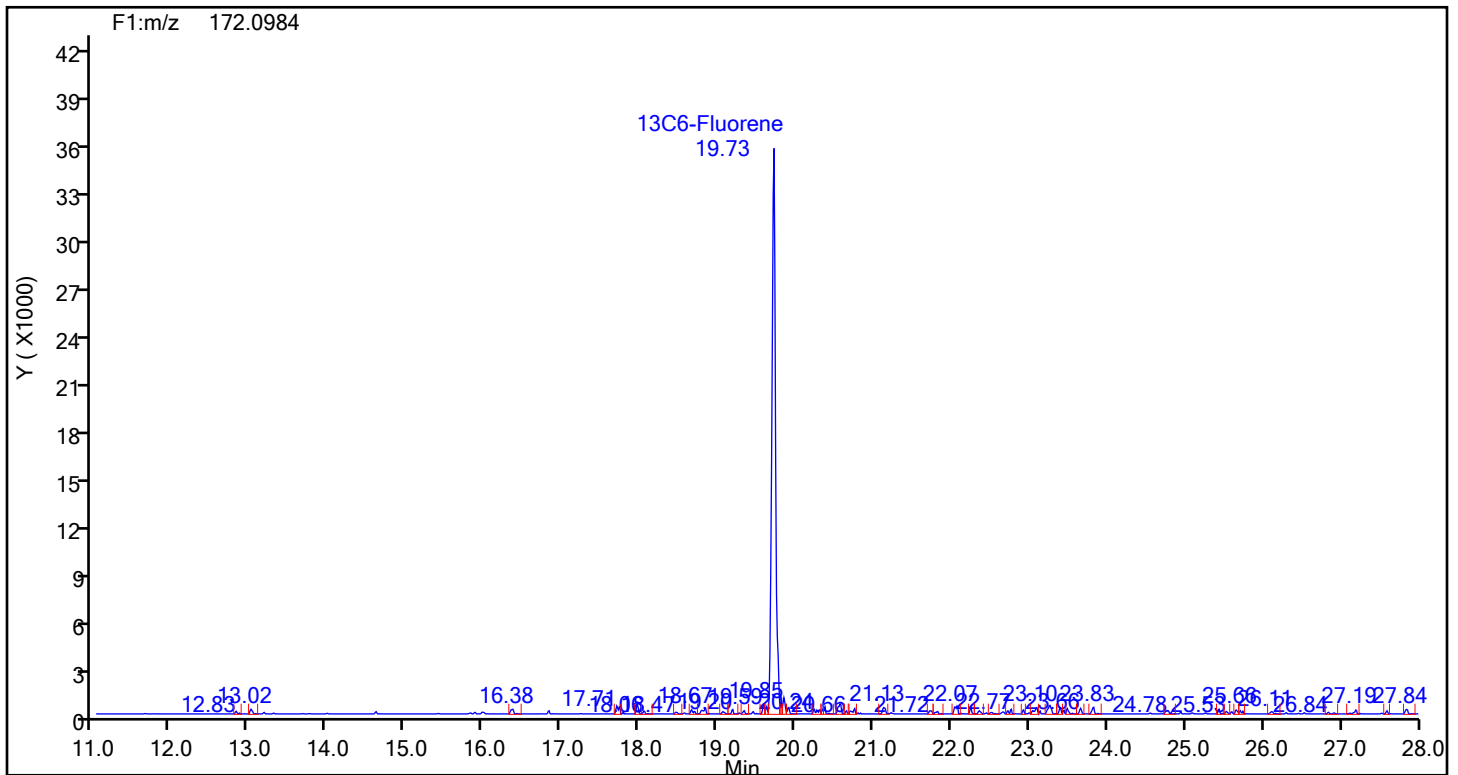
Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



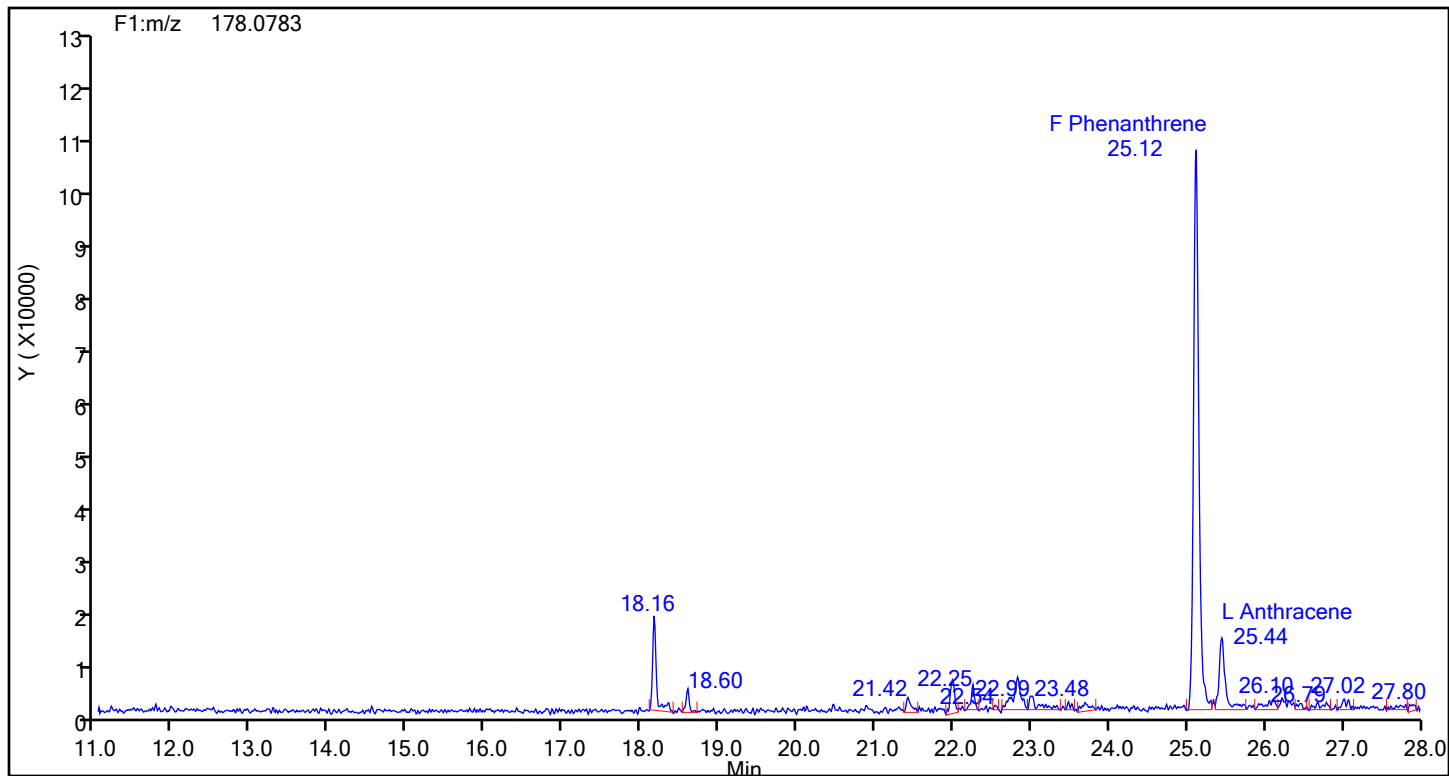
Fluorene Standards



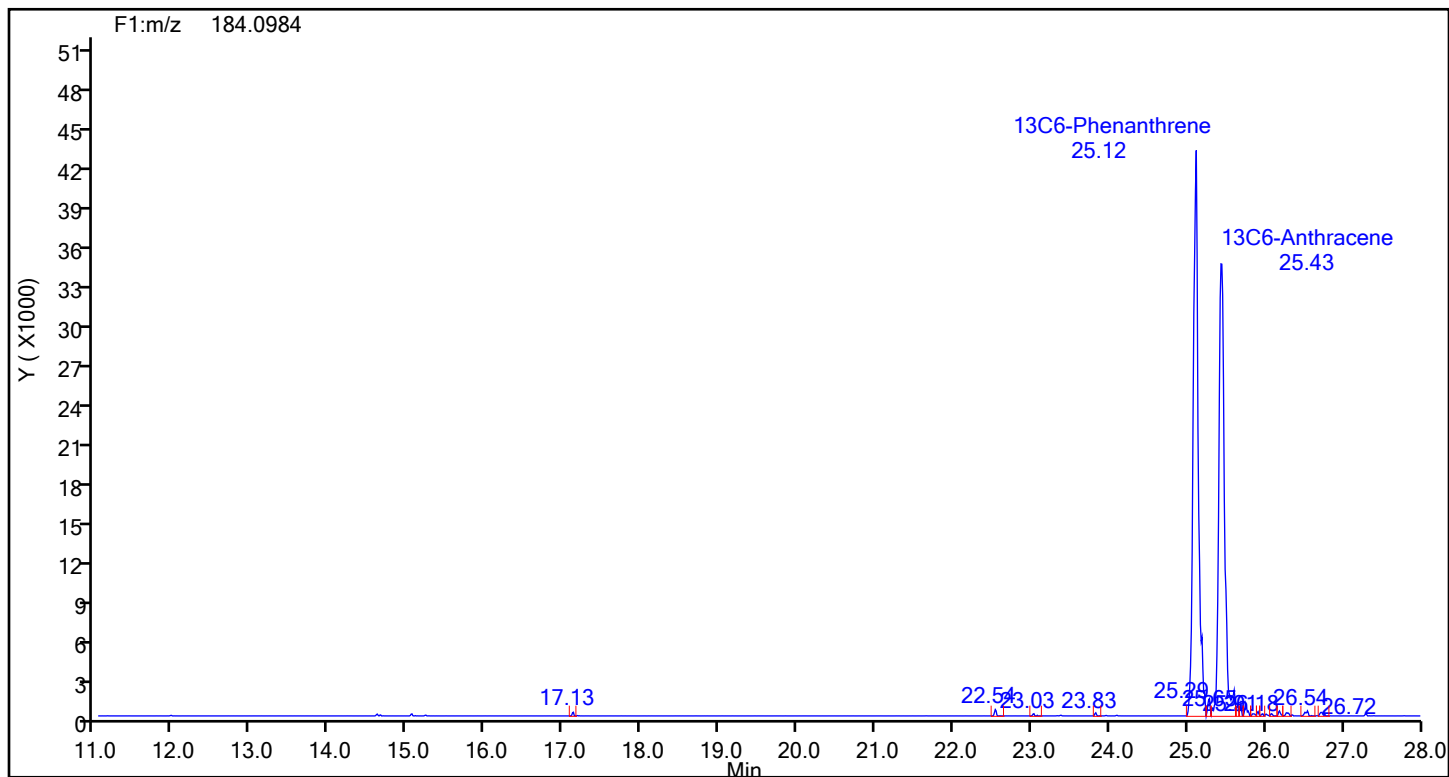
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

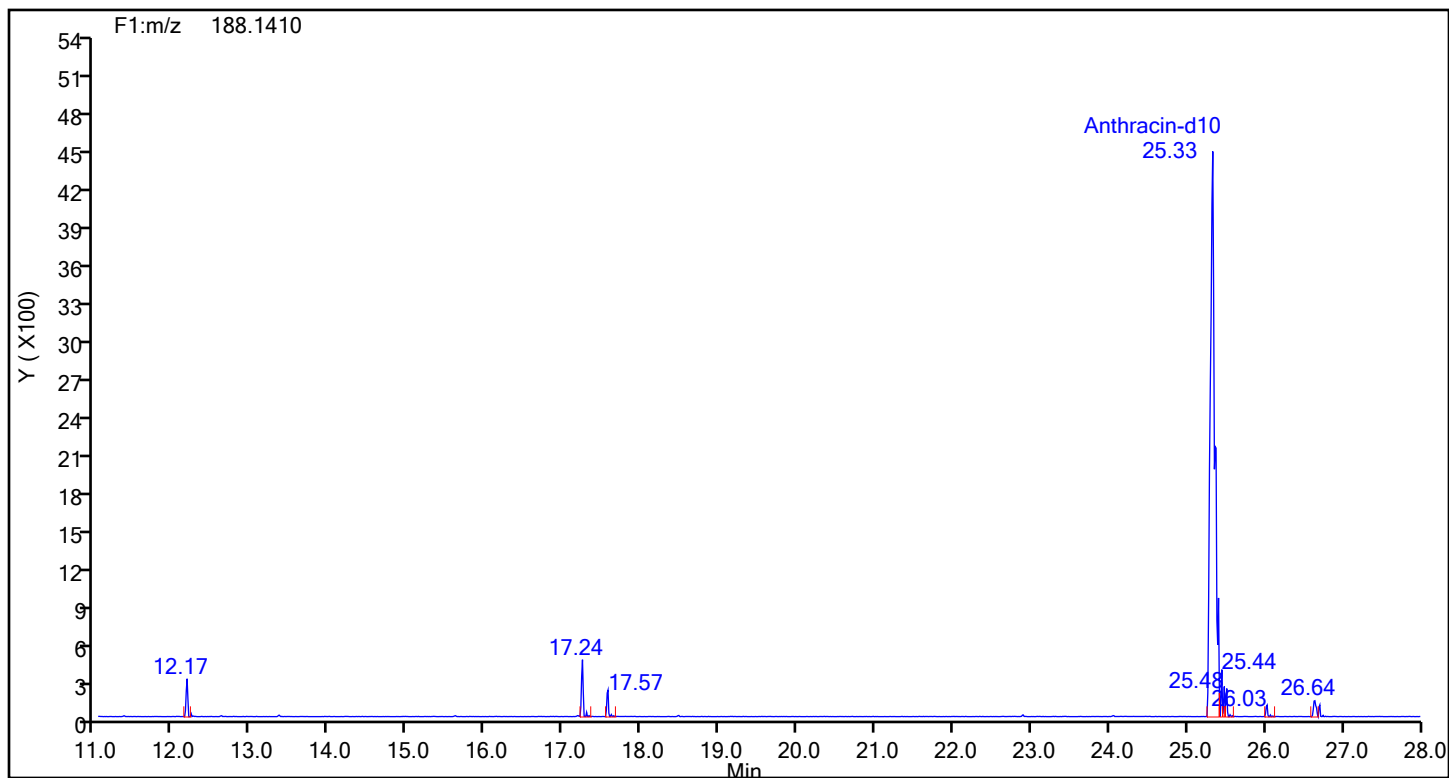


Phenanthrene Standards

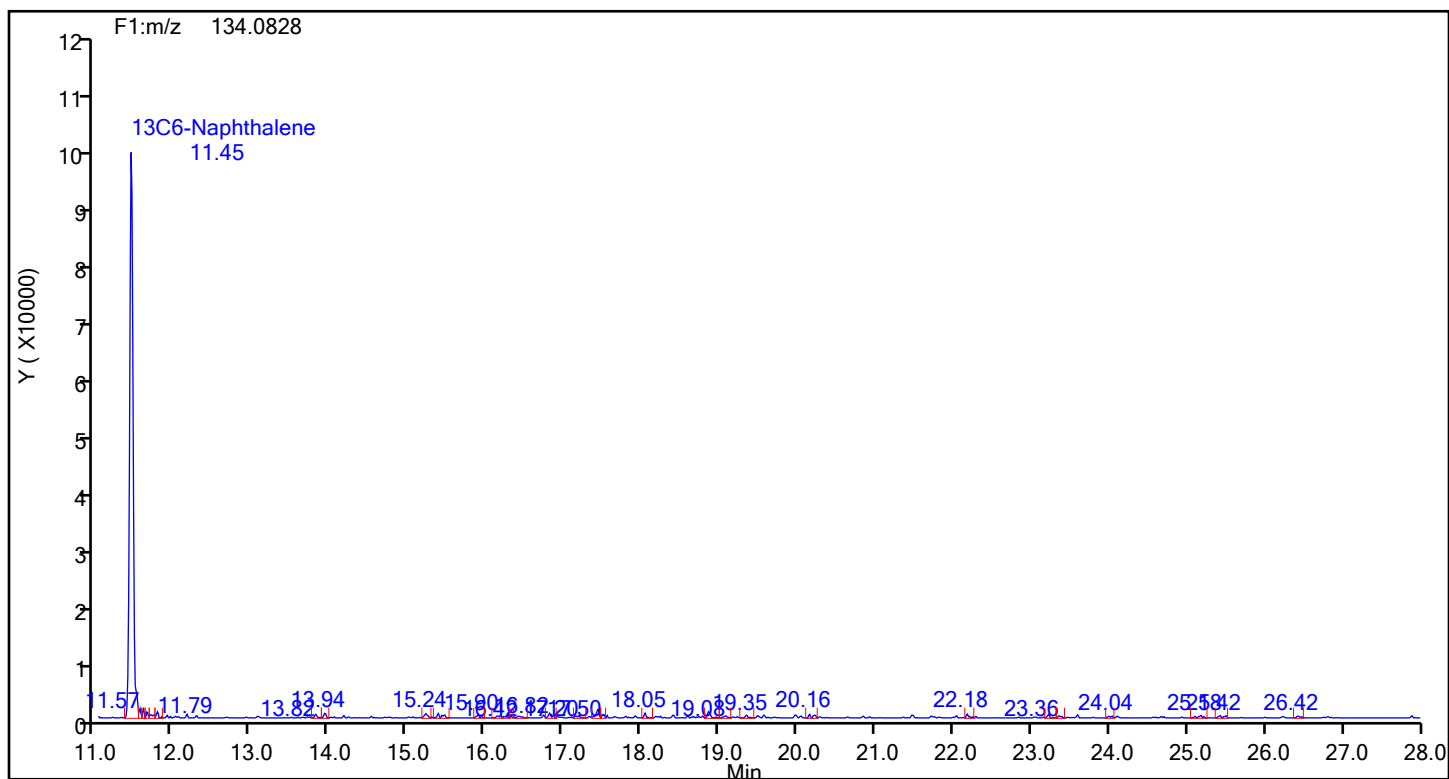


Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



Anthracin-d10 Standards



Eurofins Knoxville

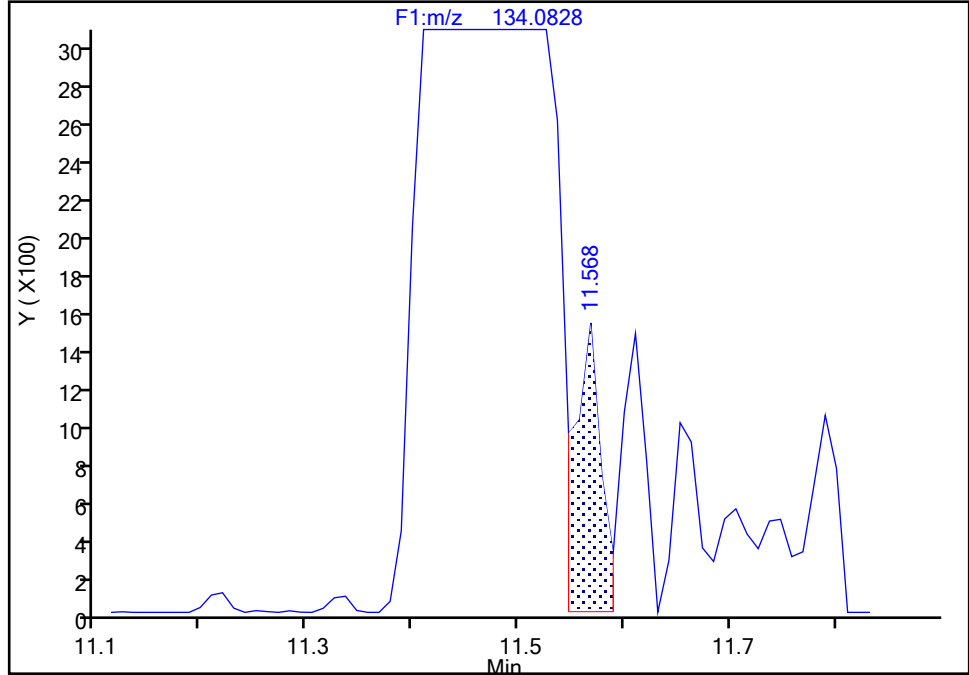
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Lims ID: 140-36689-A-8-D Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

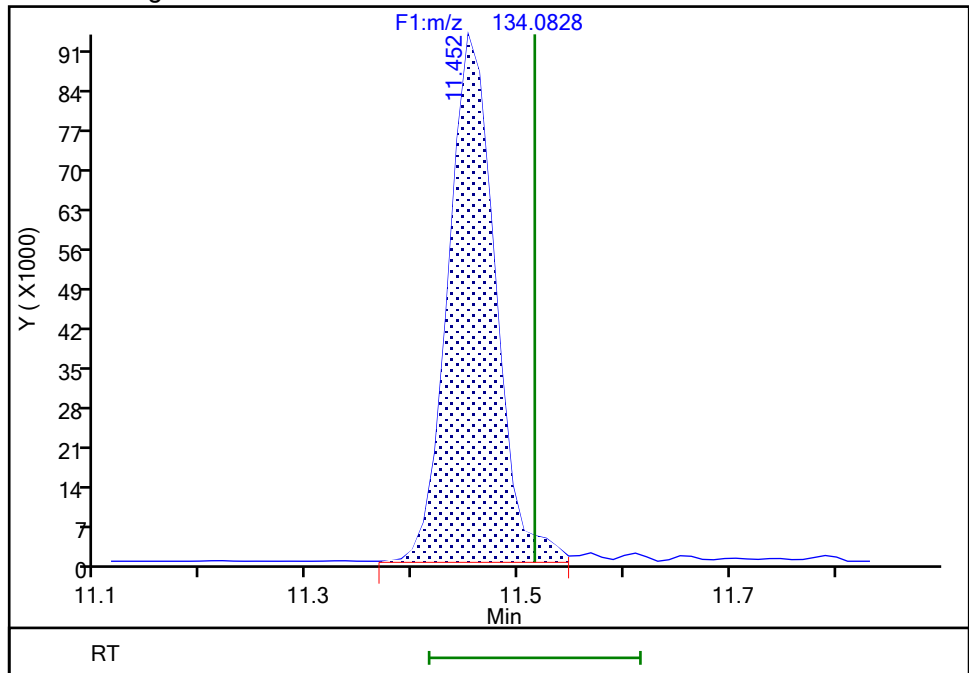
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Area: 2404
Amount: 0.440175
Amount Units: pg/ul

Processing Integration Results



RT: 11.45
Area: 286973
Amount: 52.545037
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:34:34 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-8-d.d

Injection Date: 25-Jun-2024 05:02:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

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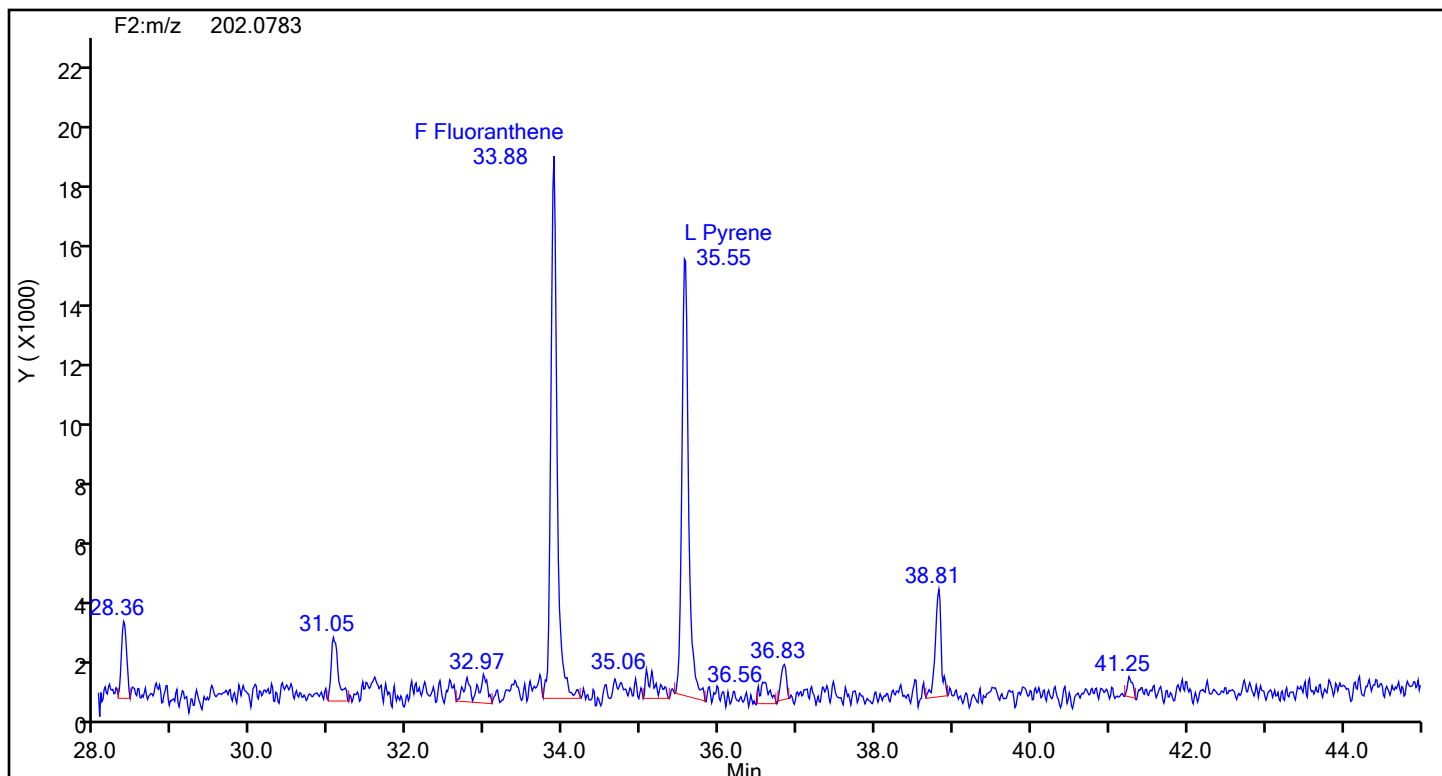
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Sample Line#: 9

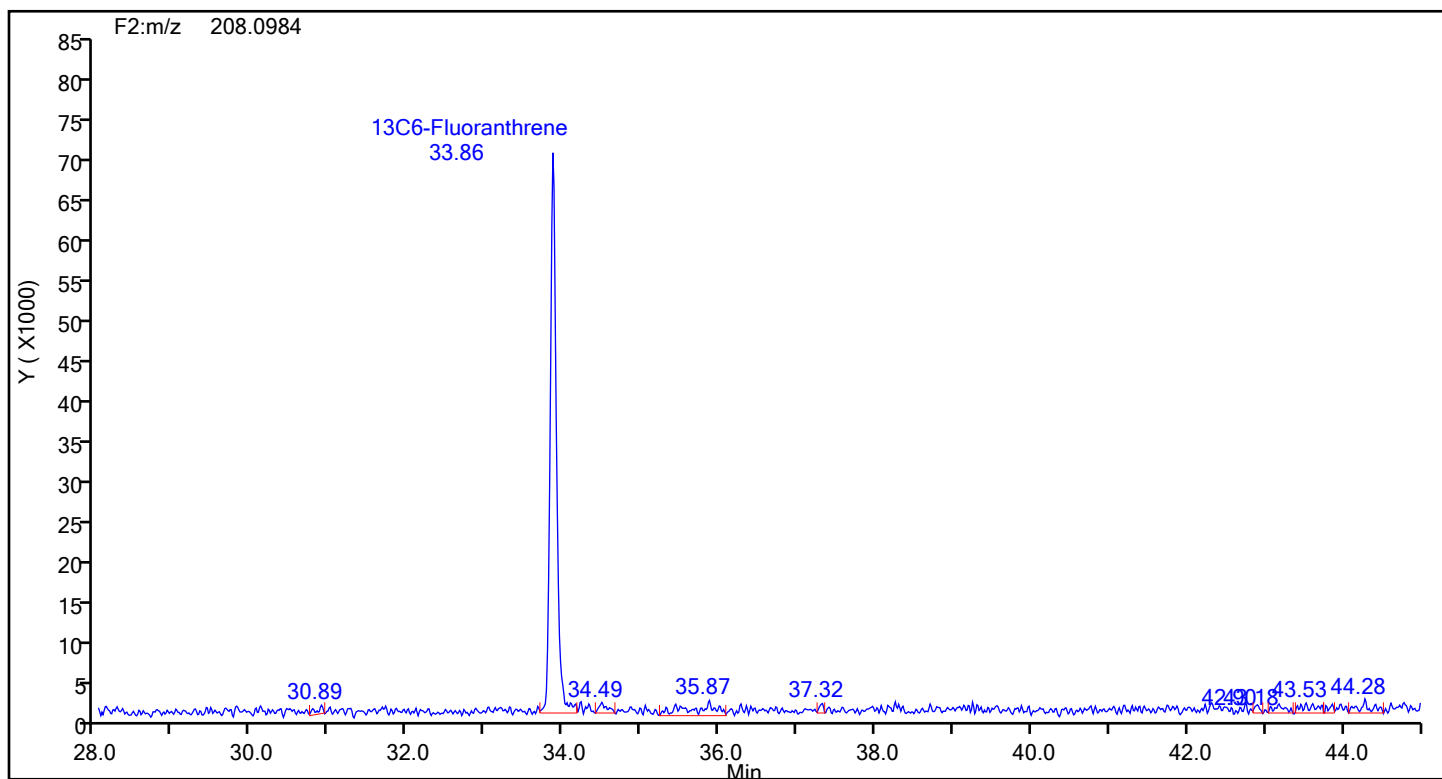
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Column Dia: 0.25 mm

Fluoranthene



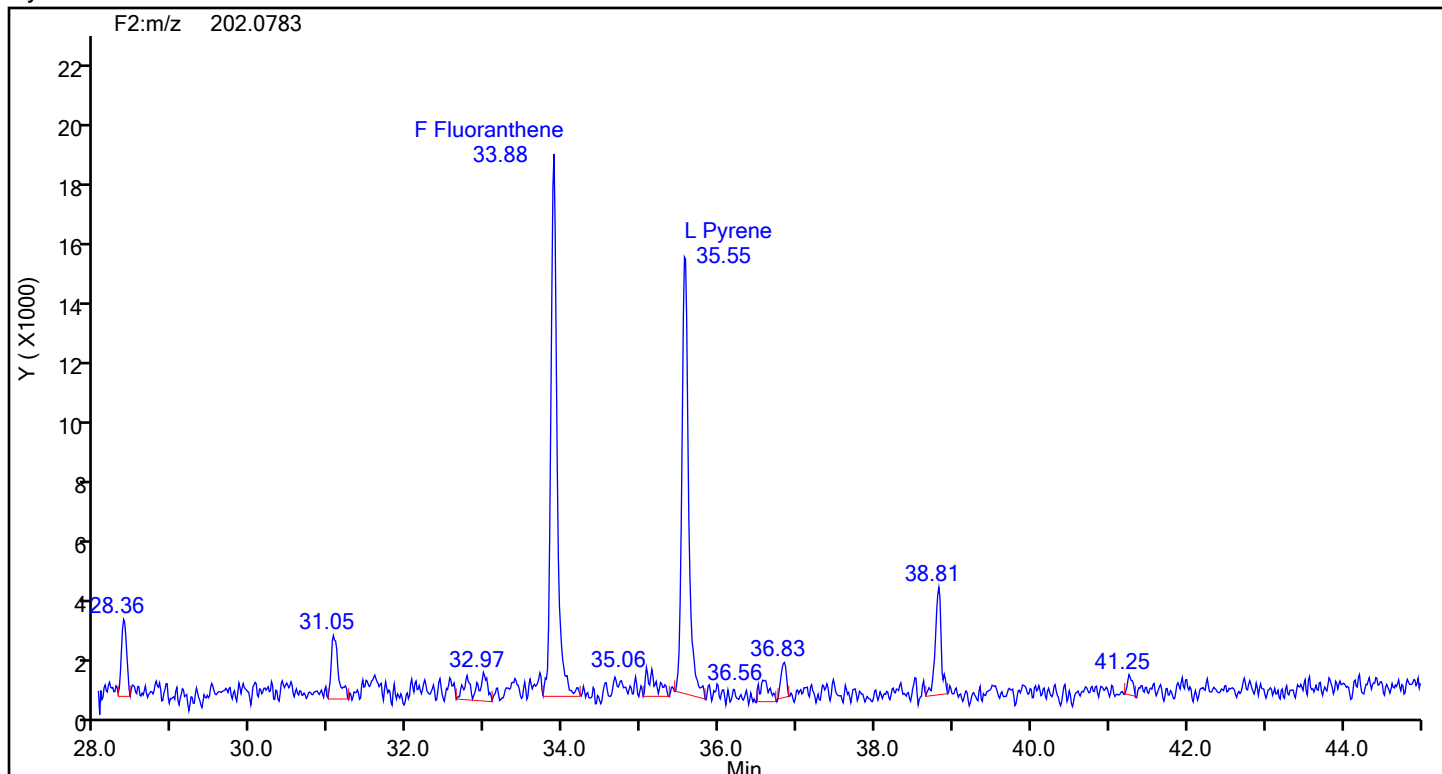
Fluoranthene Standards



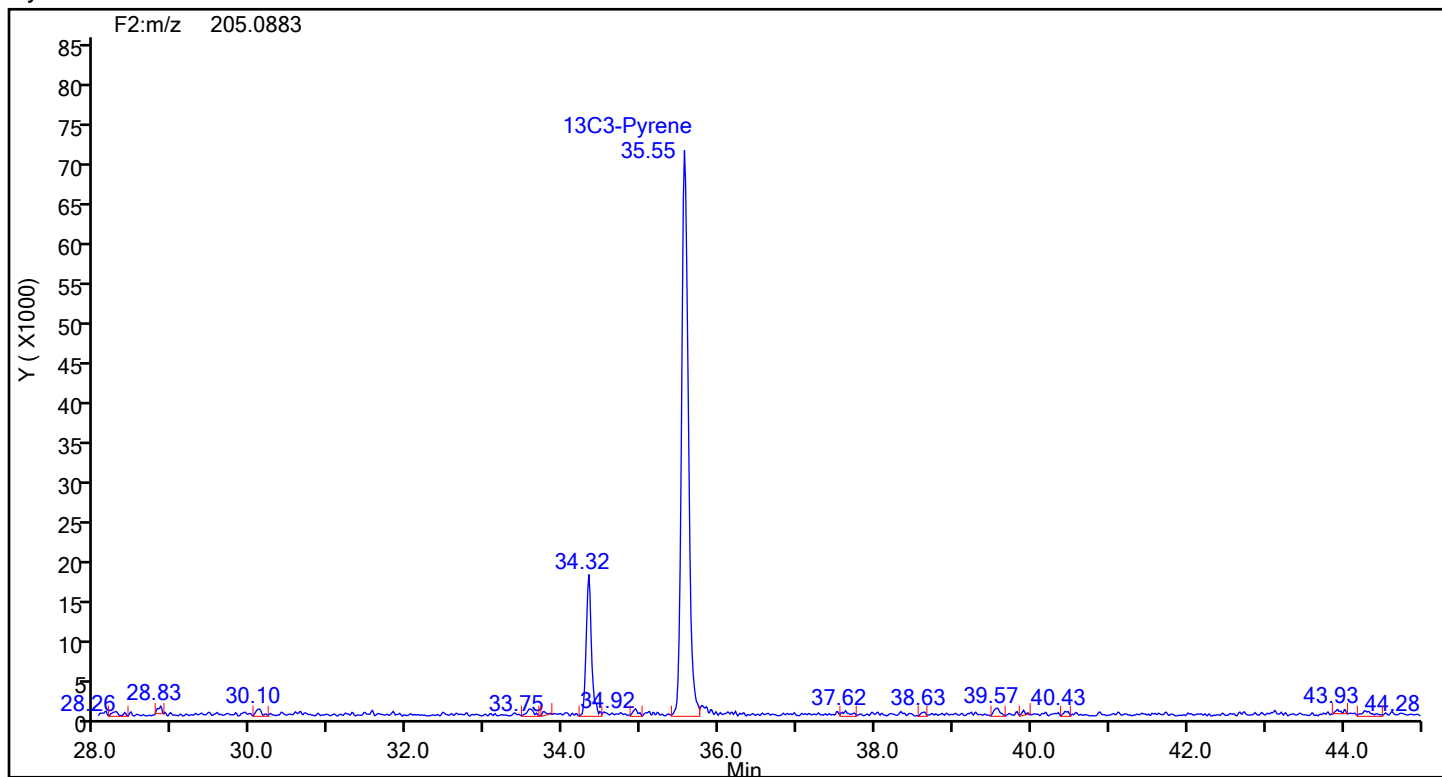
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



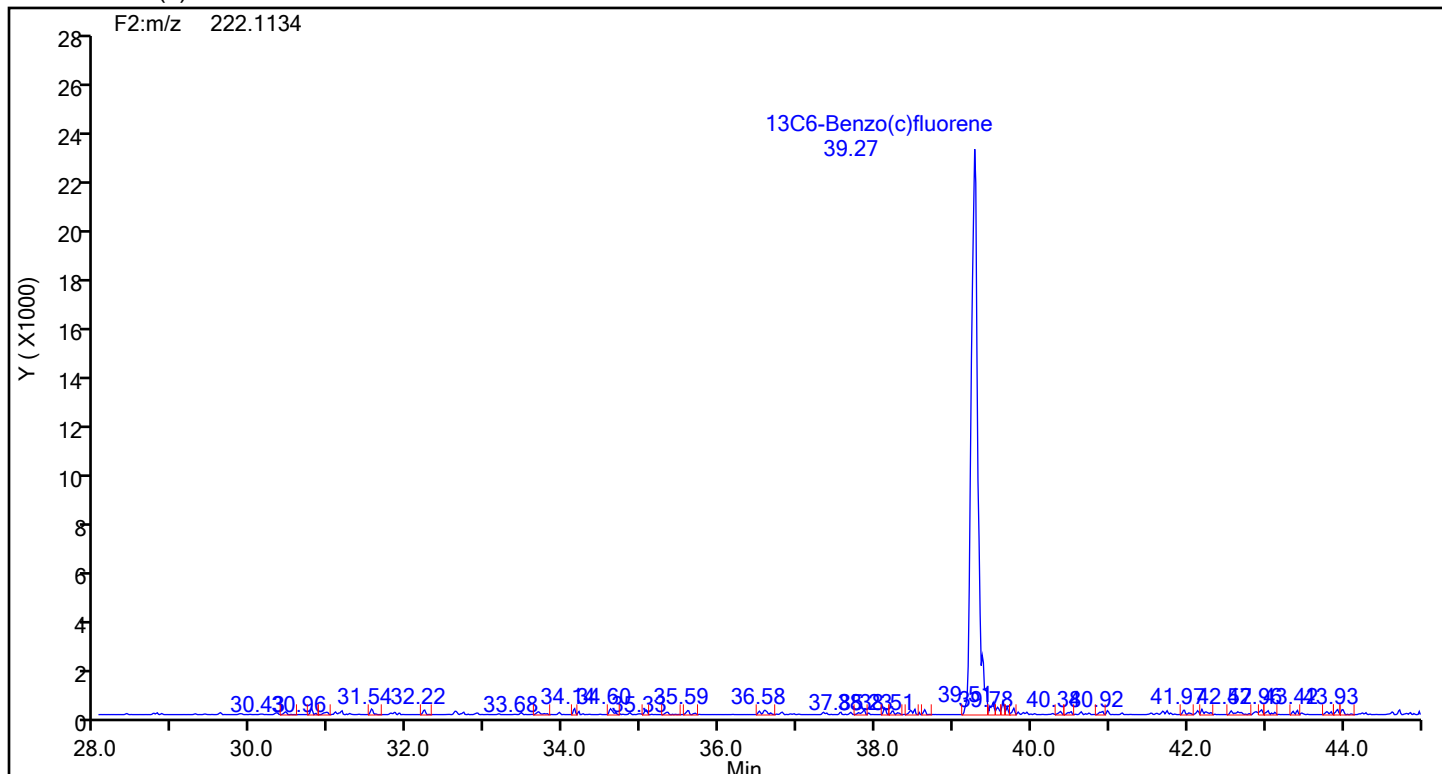
Pyrene Standards



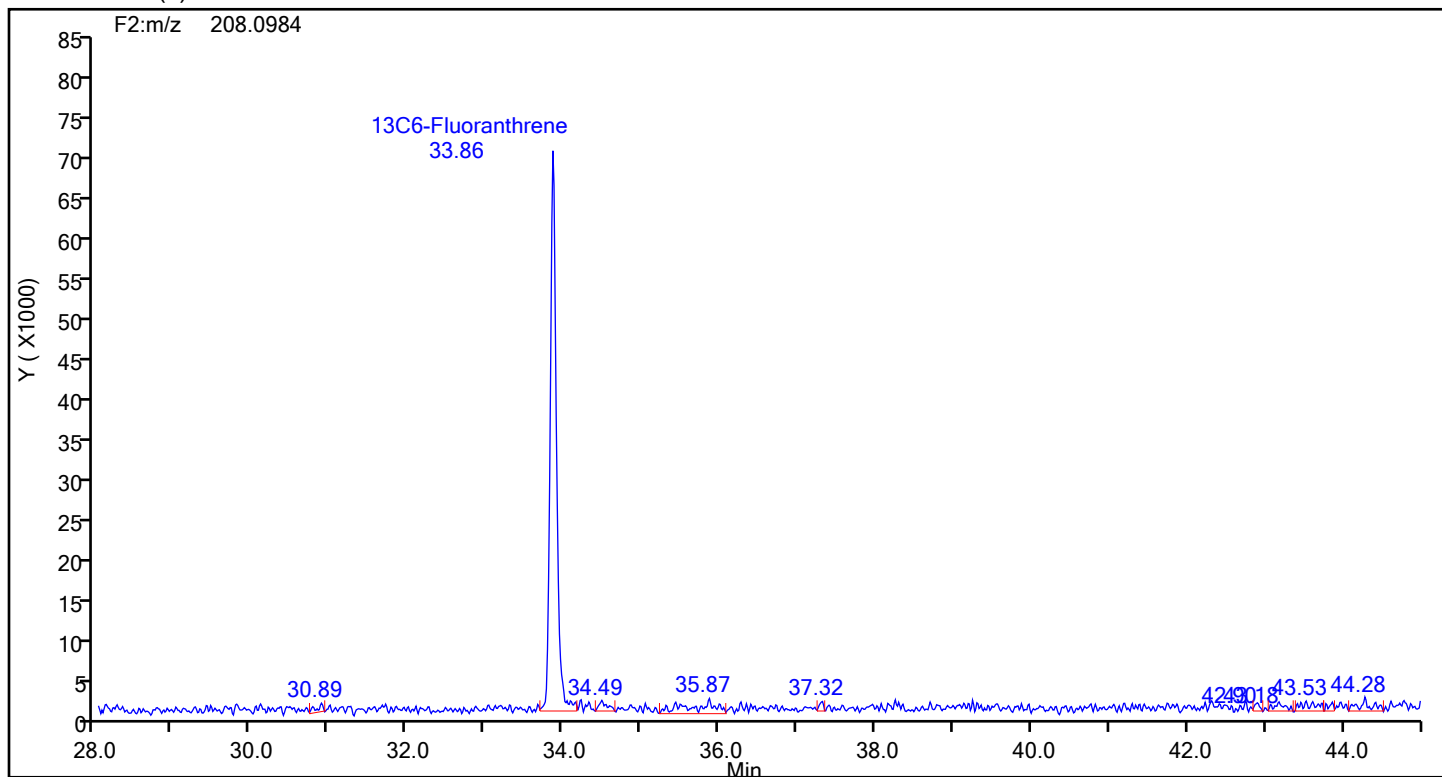
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



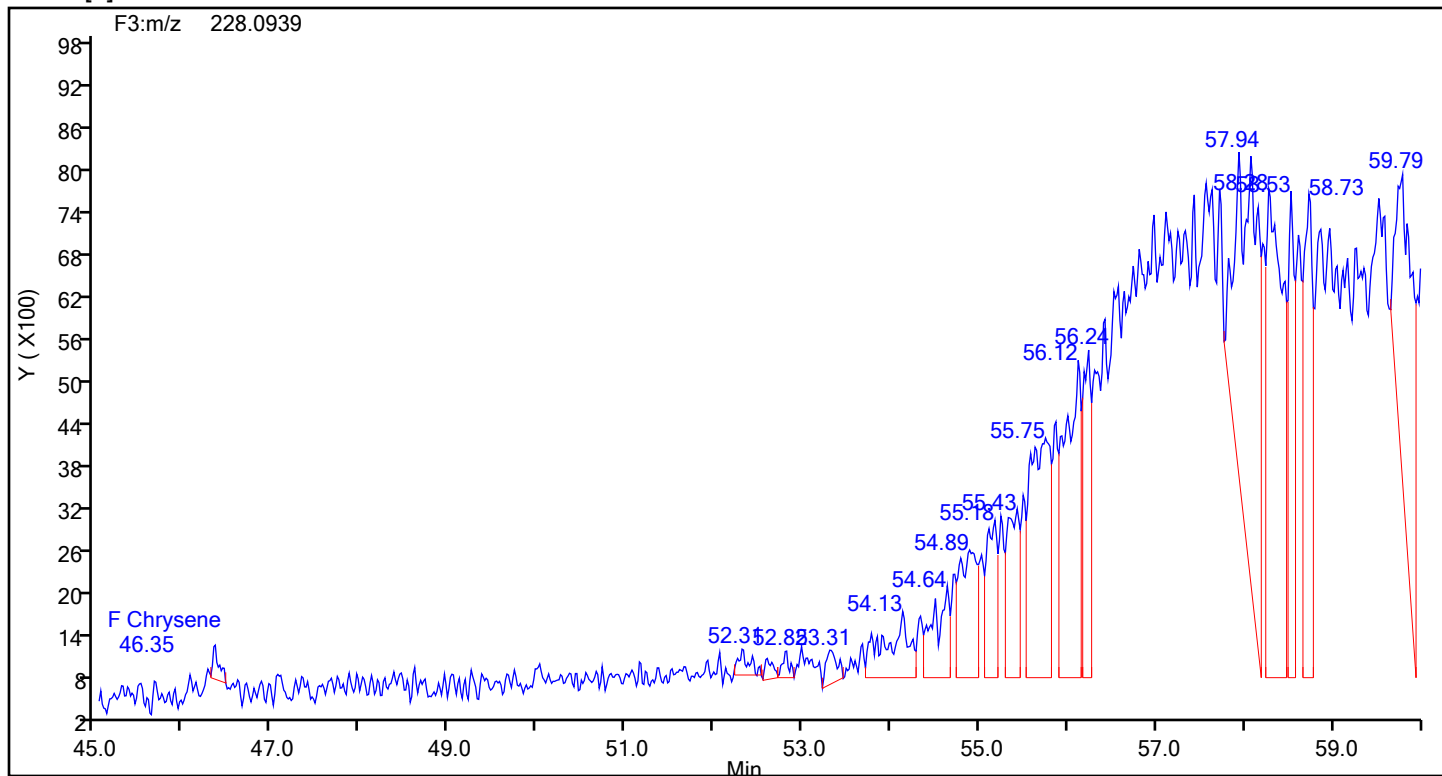
13C6-Benzo(c)fluorene Standards



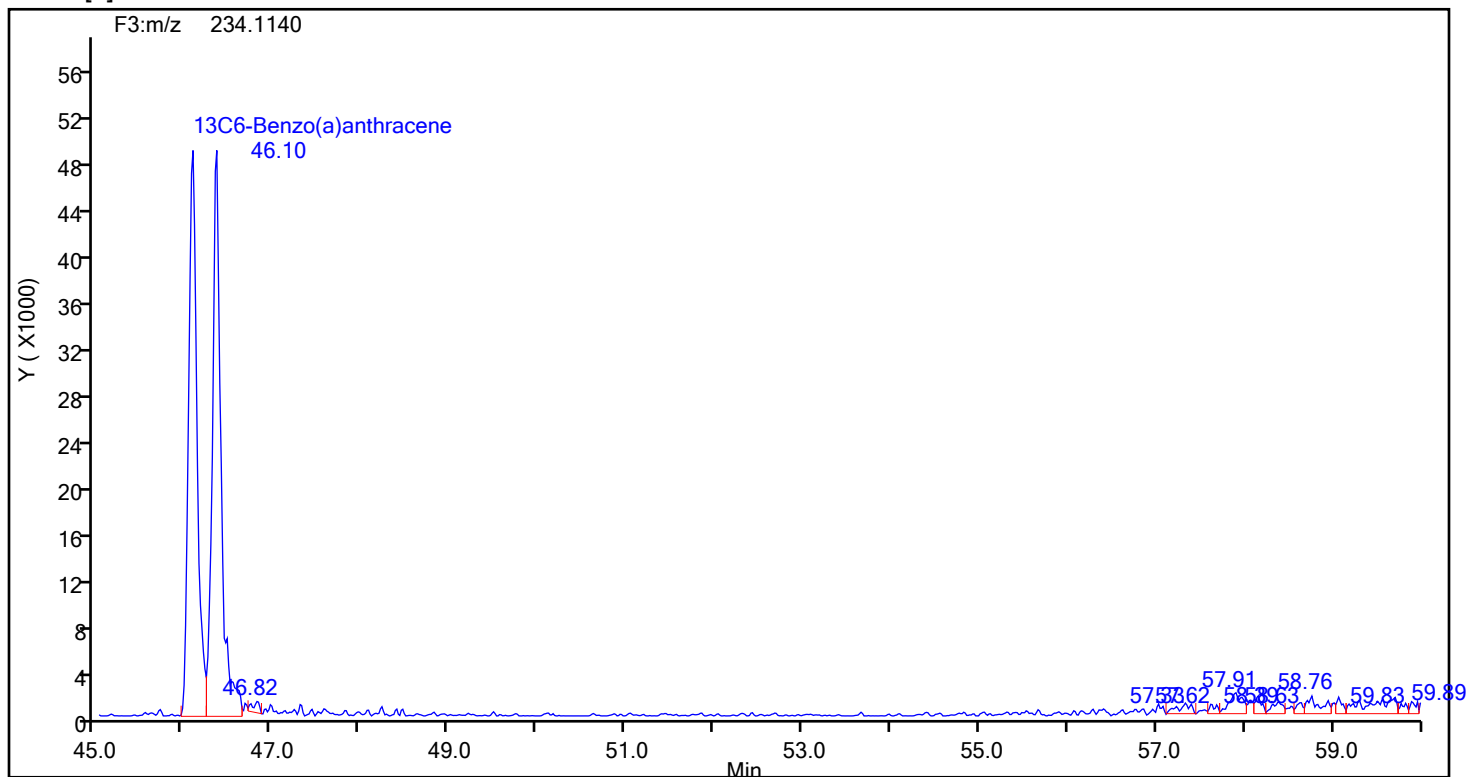
Eurofins Knoxville

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Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



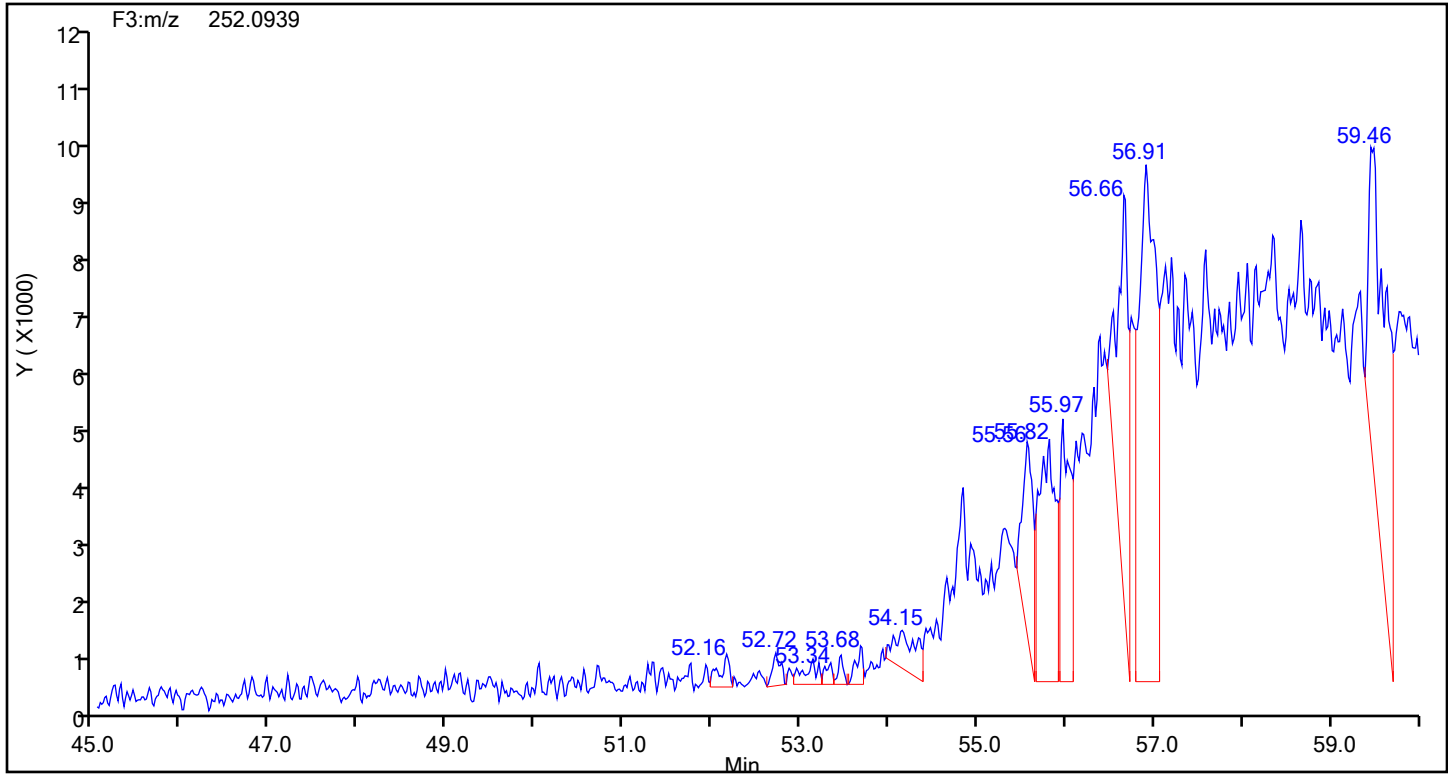
Benzo[a]anthracene Standards



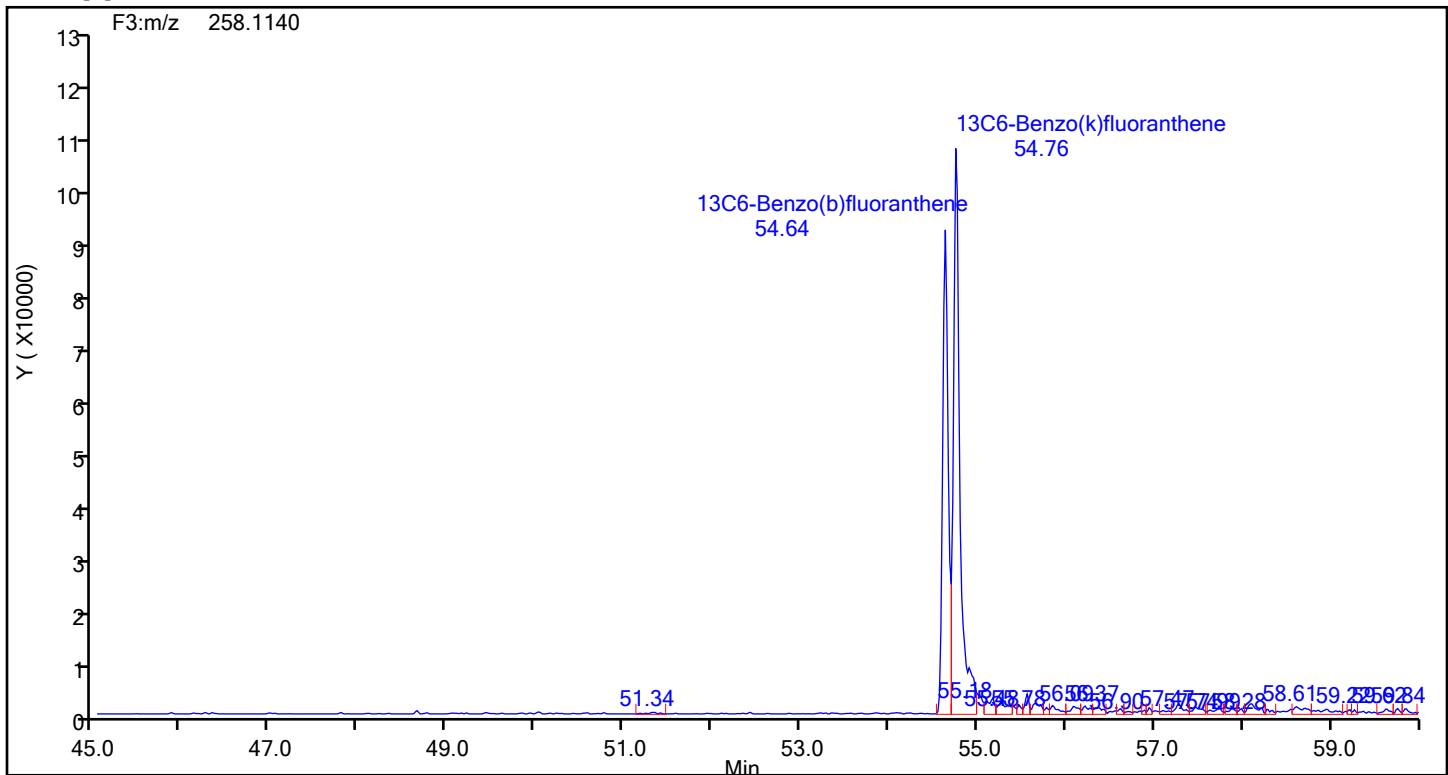
Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



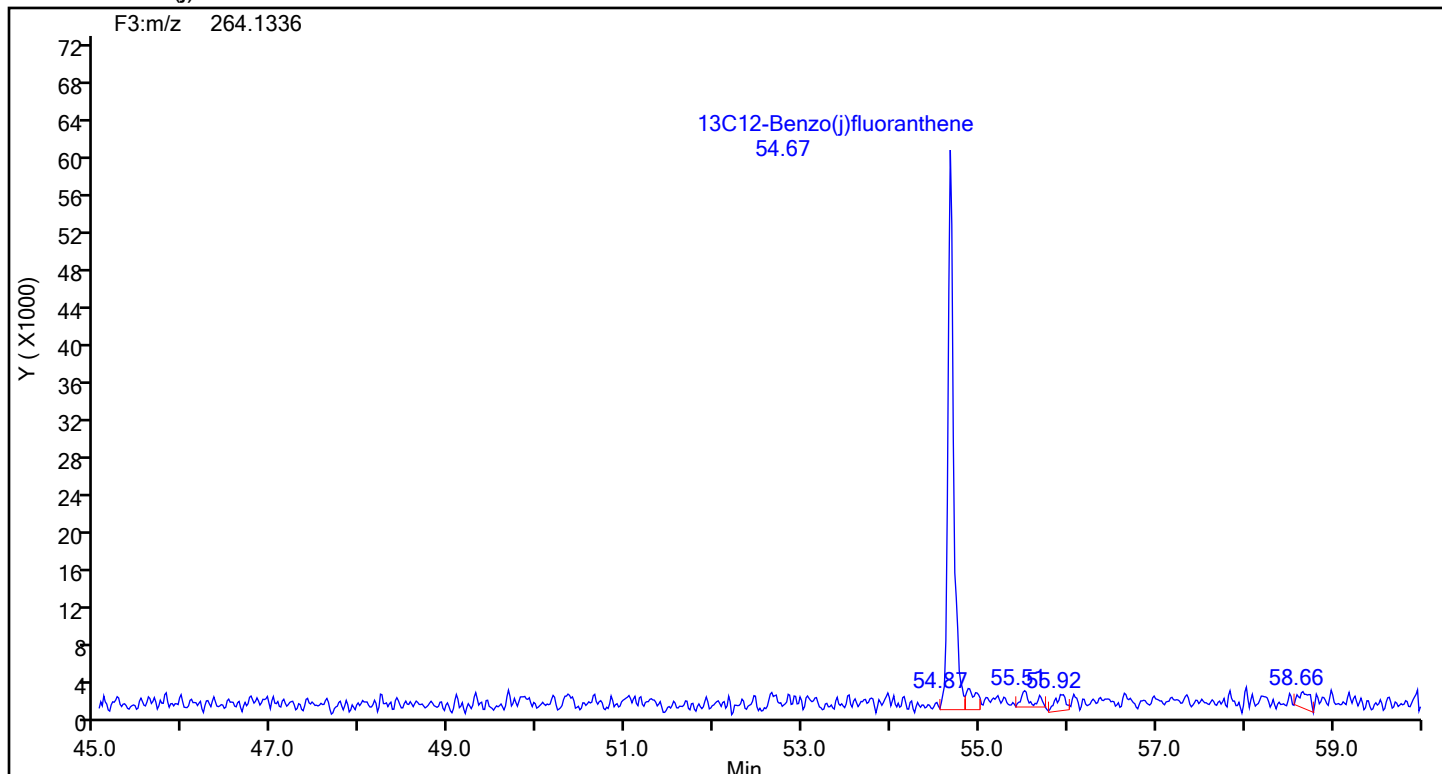
Benzo[b]fluoranthene Standards



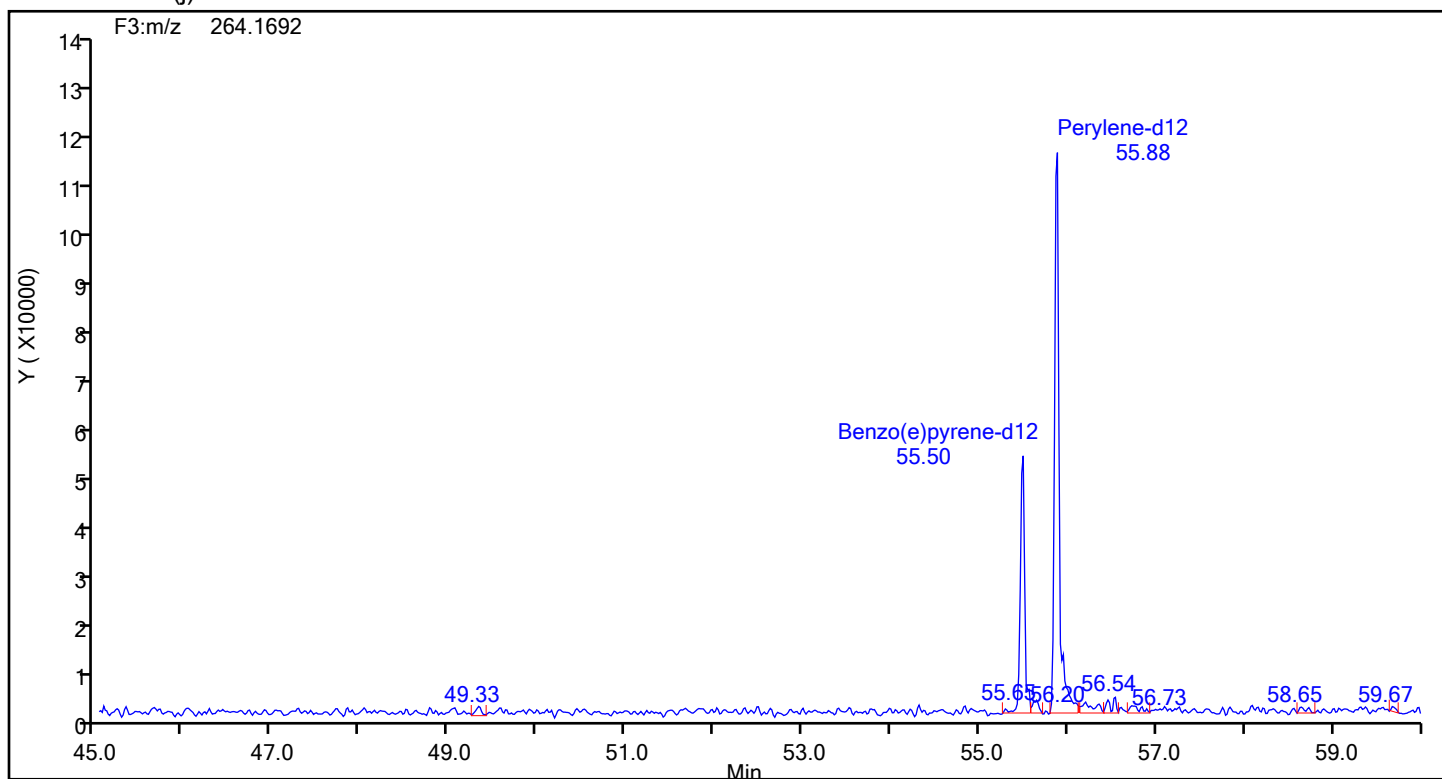
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



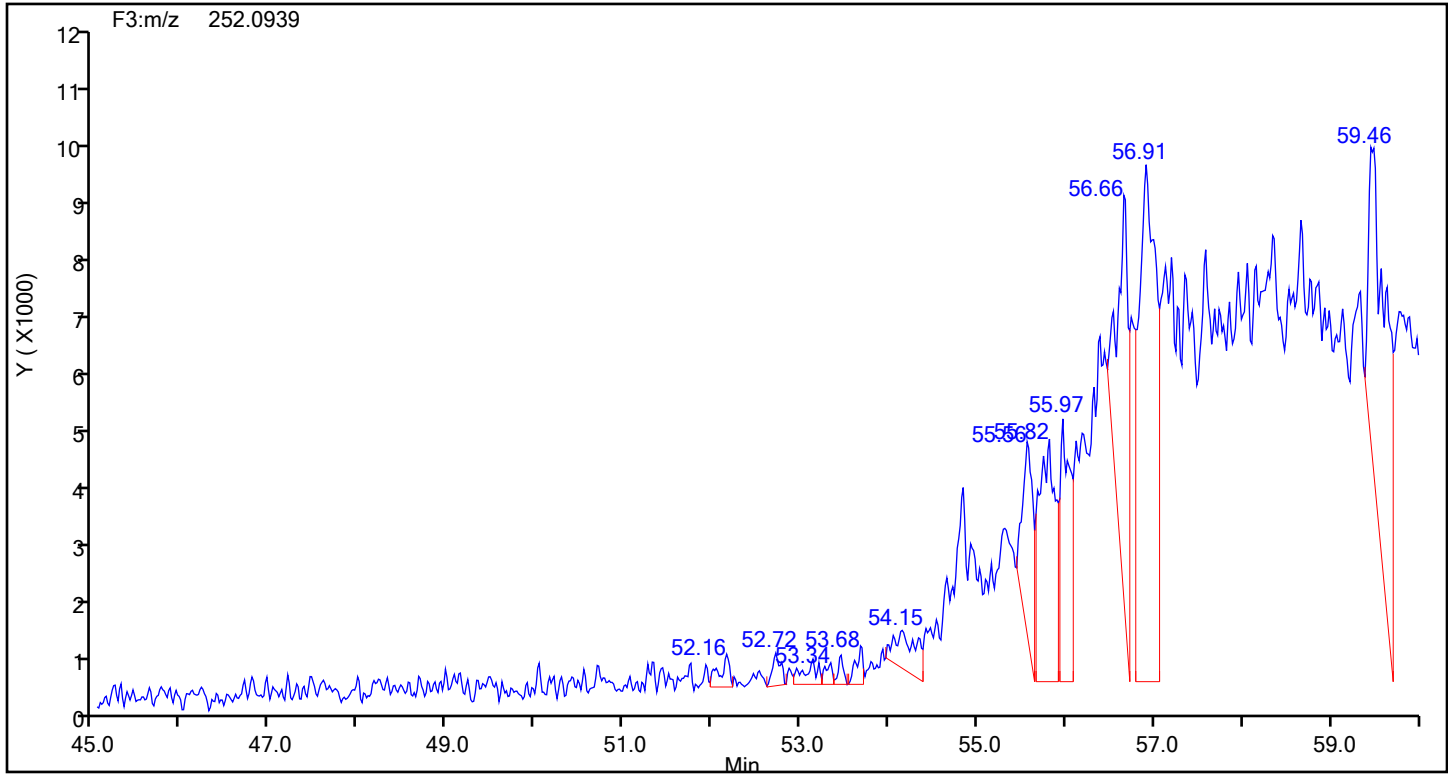
13C12-Benzo(j)fluoranthene Standards



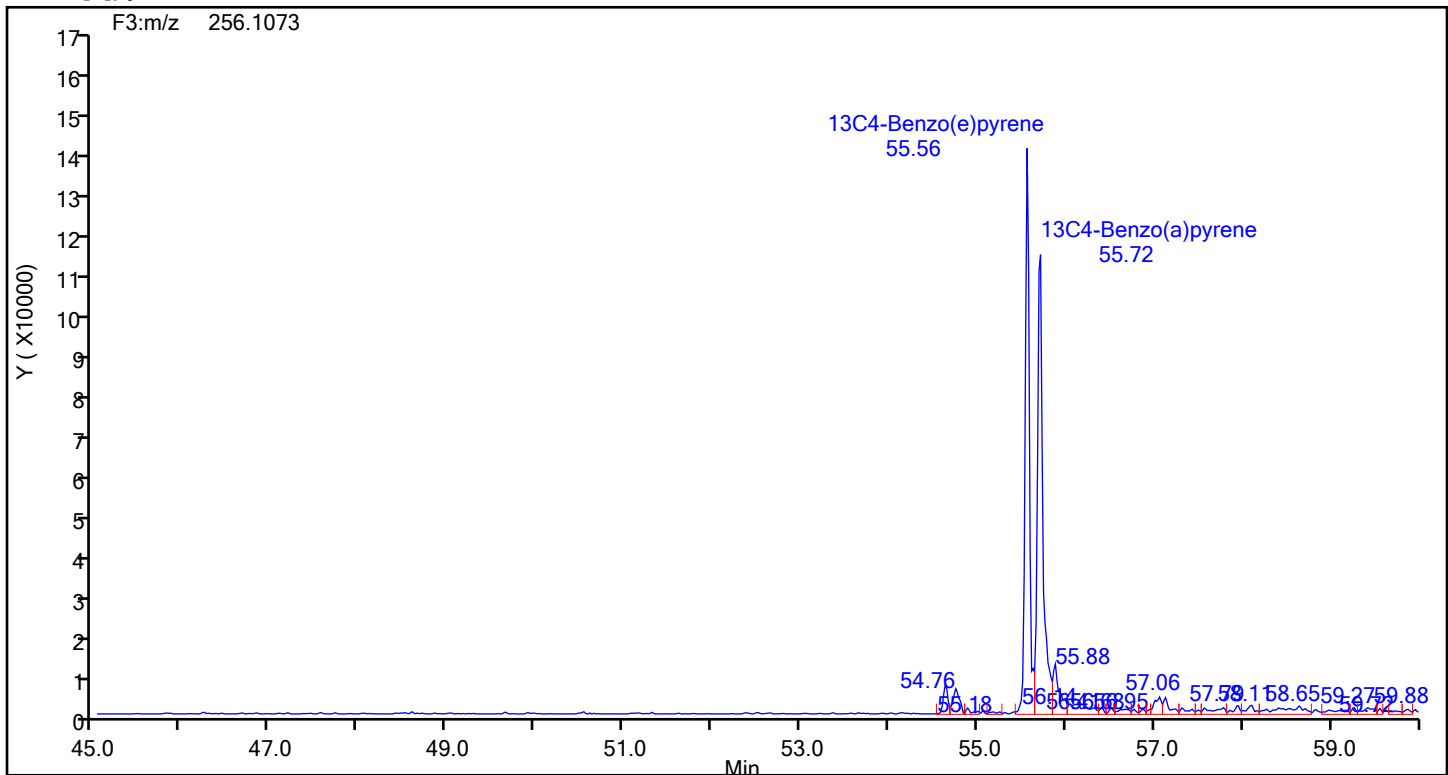
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



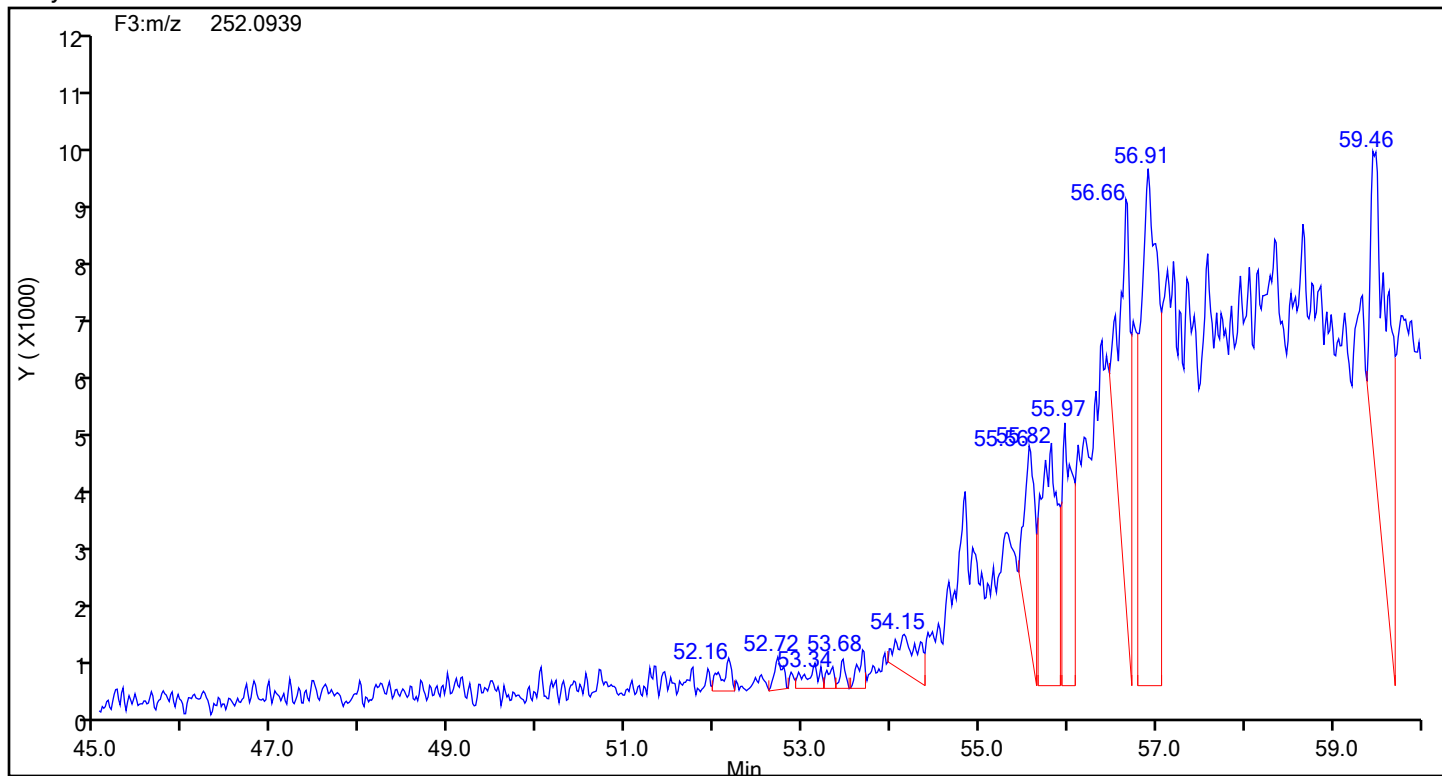
Benzo[e]pyrene Standards



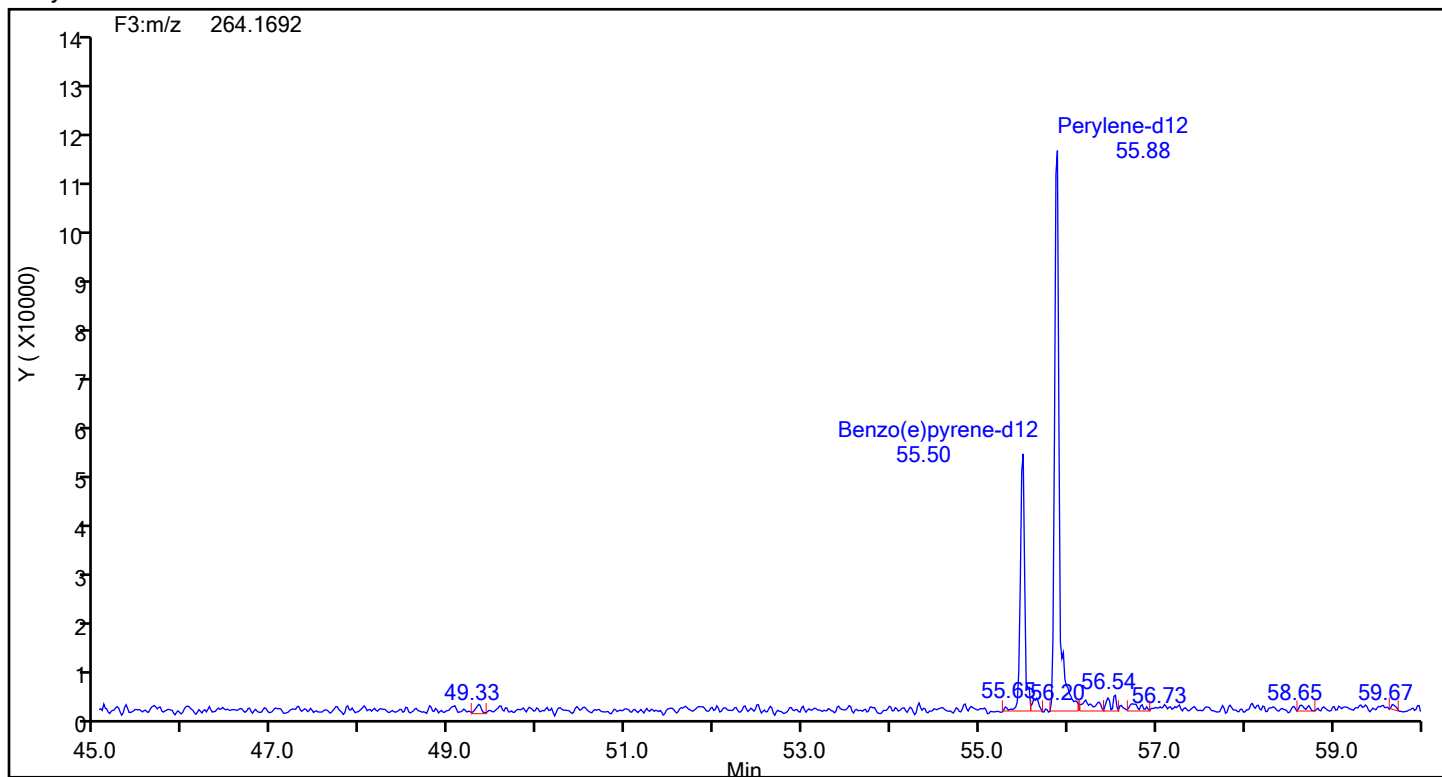
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-8-d.d
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-8-d.d

Injection Date: 25-Jun-2024 05:02:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN FB COMBINED

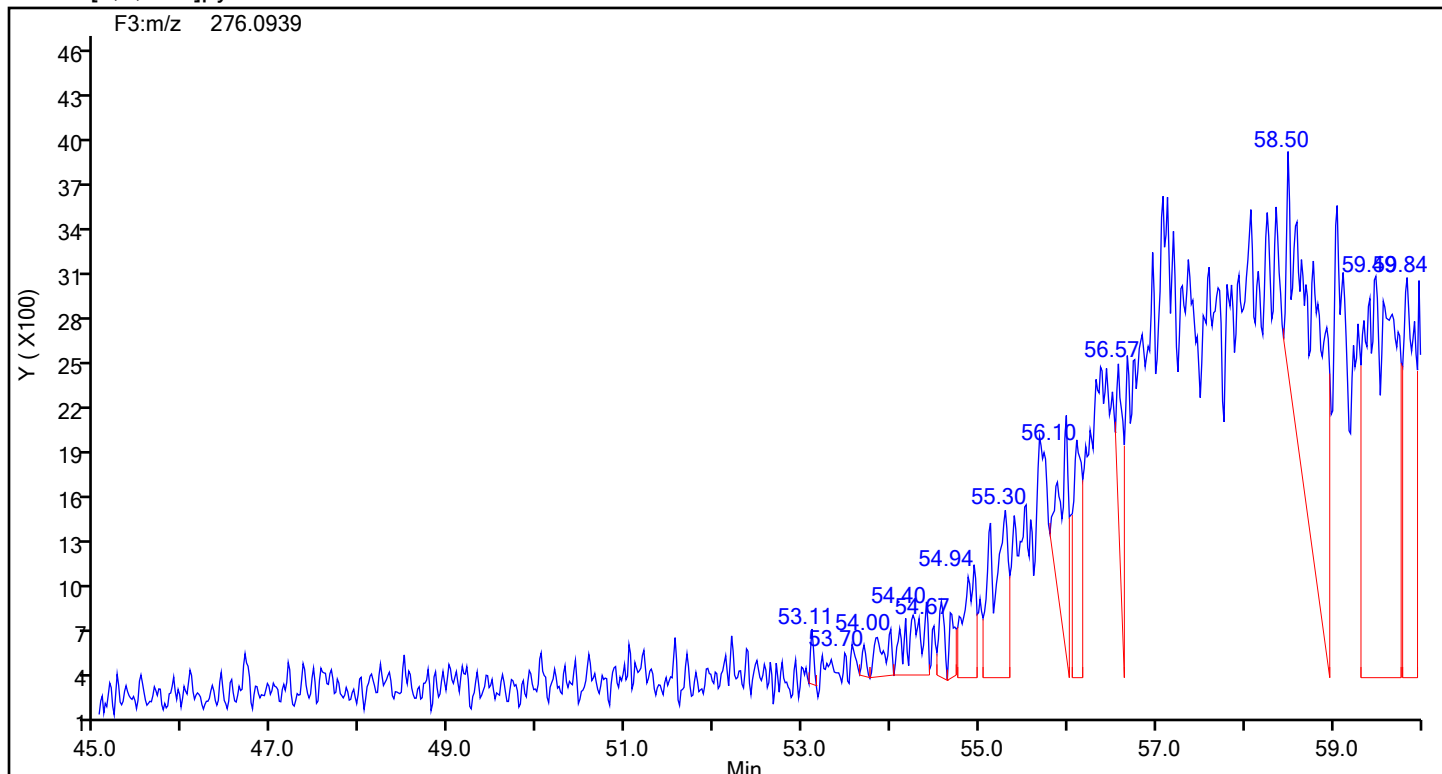
Worklist#: 88048

Sample Line#: 9

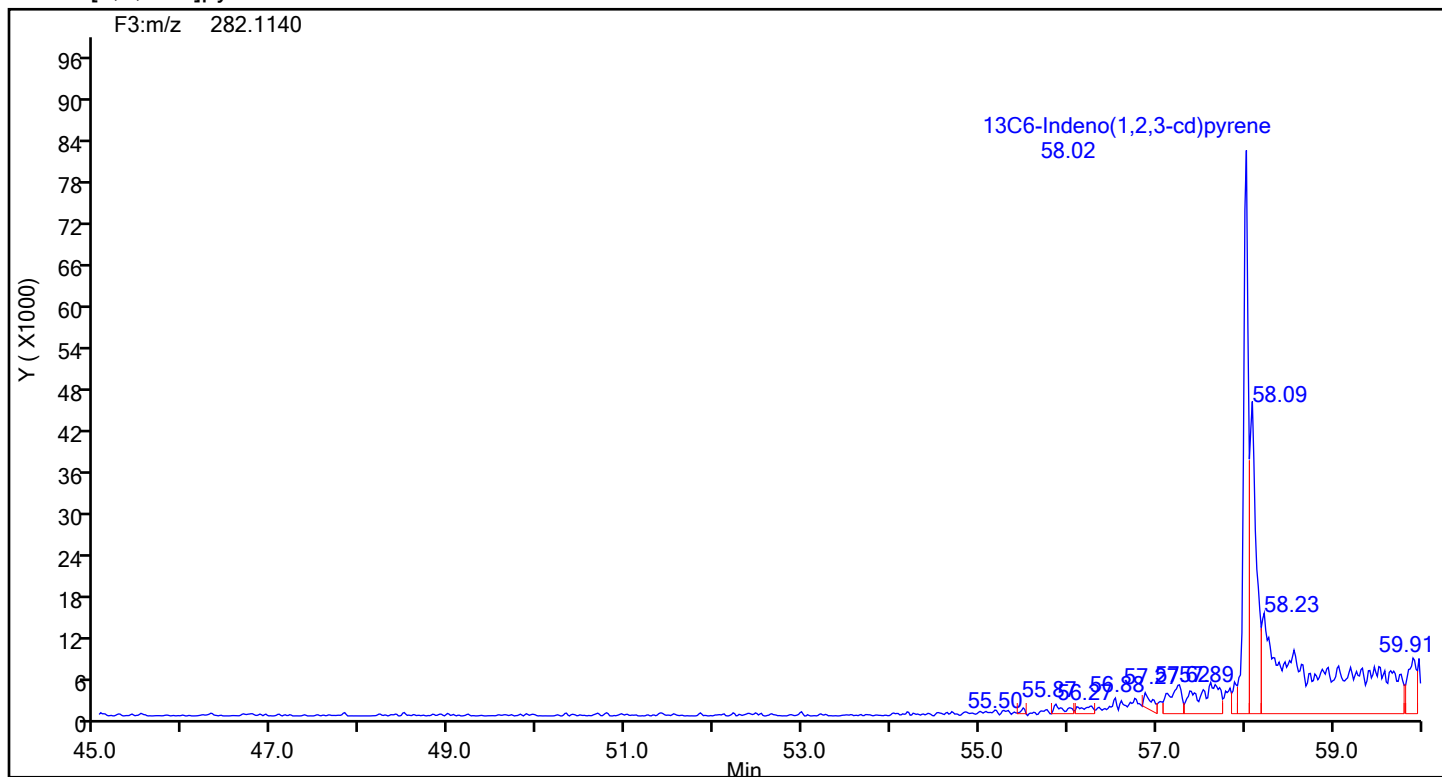
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

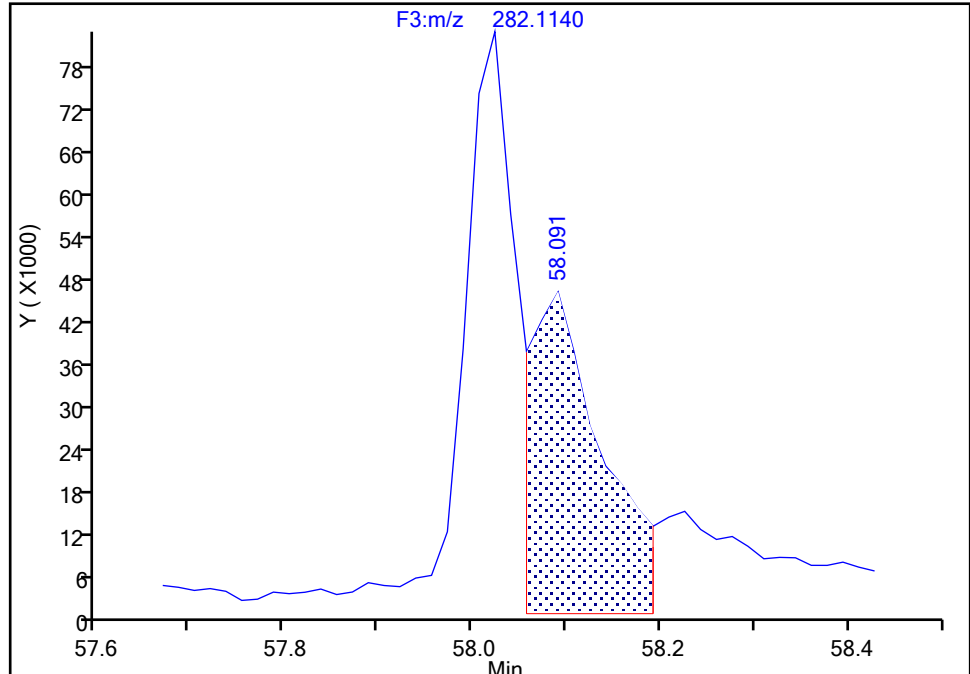
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Injection Date: 25-Jun-2024 05:02:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-8-D Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

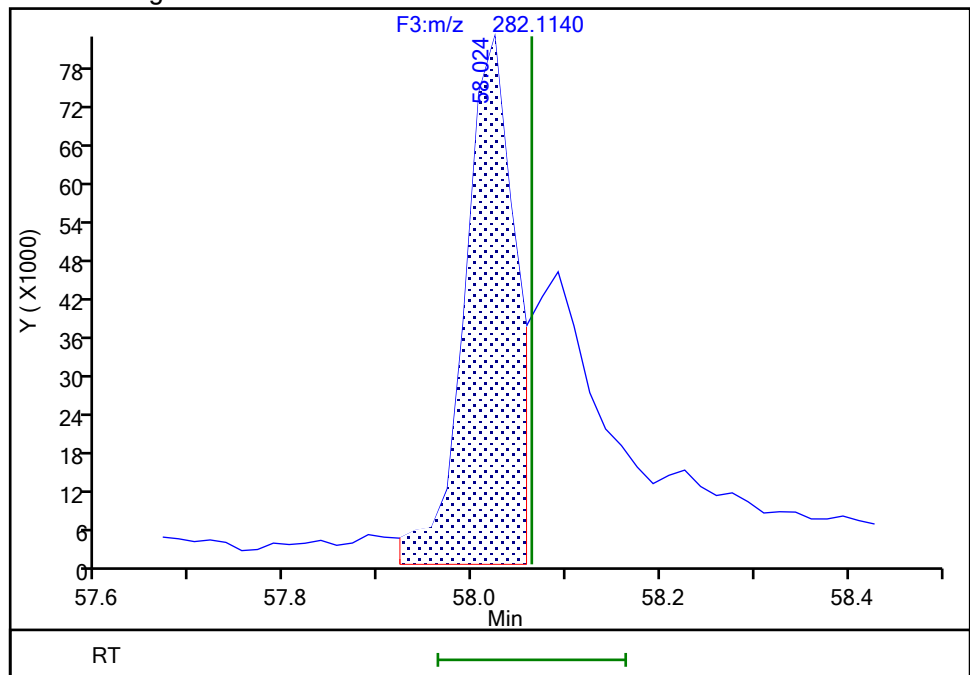
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Amount Units: pg/ul

Processing Integration Results



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Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:37:02 -04:00:00 (UTC)

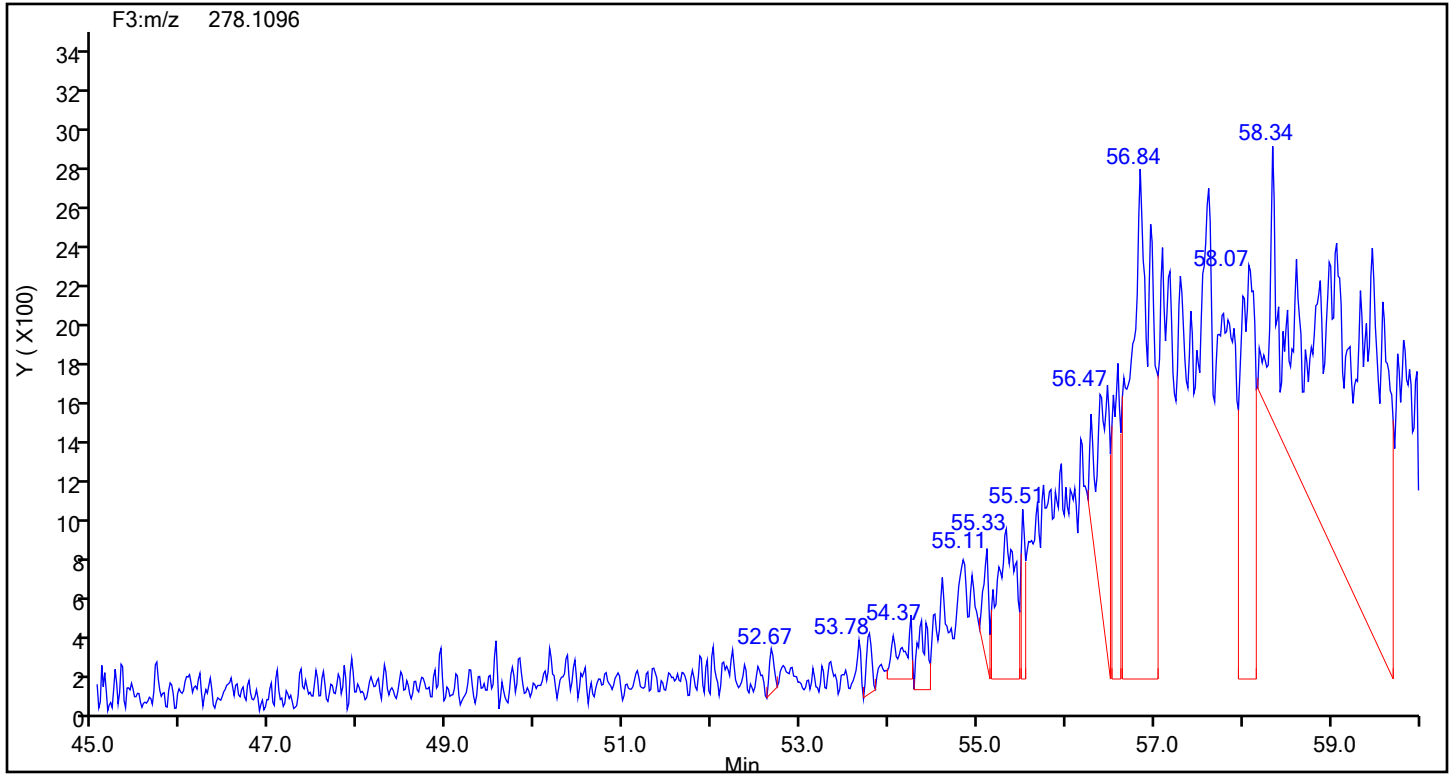
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

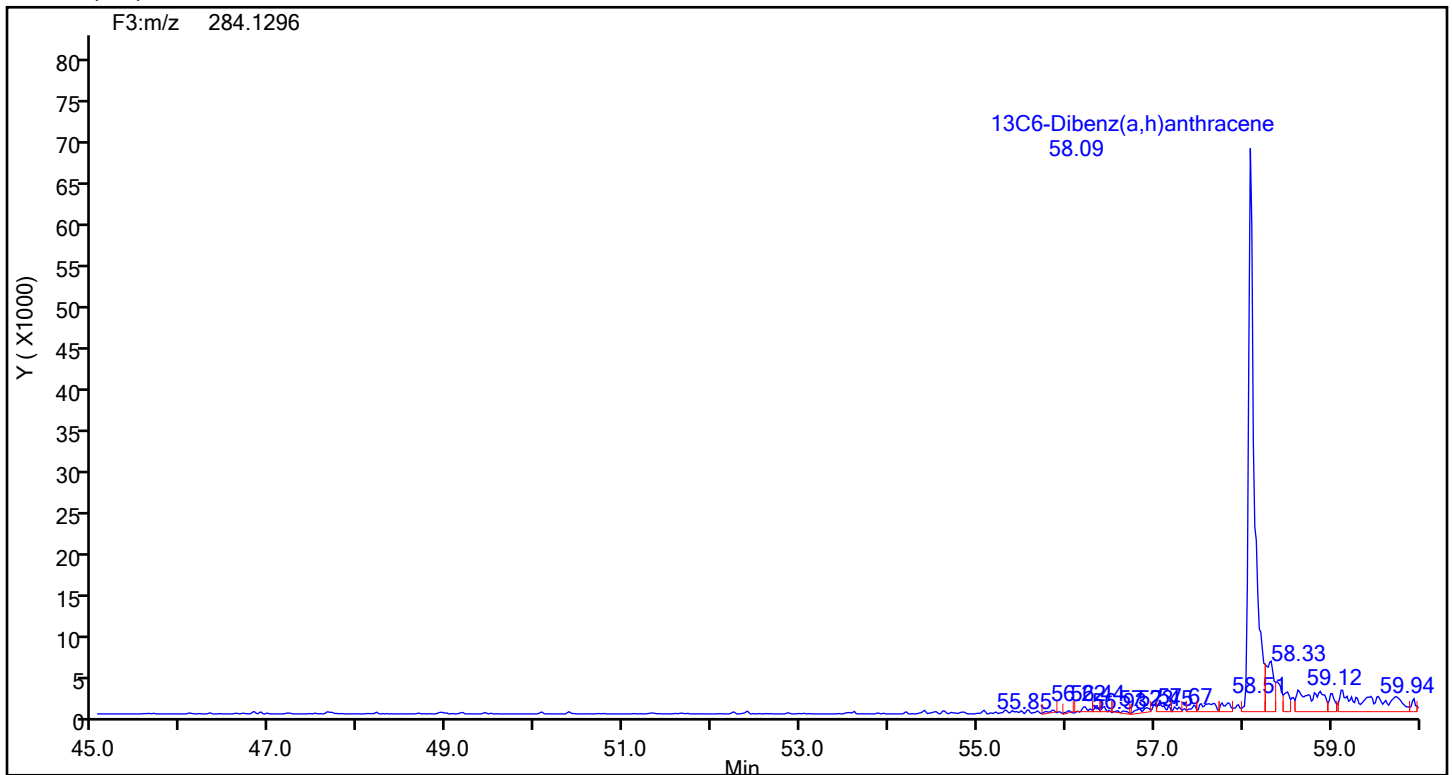
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-8-d.d
Injection Date: 25-Jun-2024 05:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 88048 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenzo(a,h)anthracene Standards



Eurofins Knoxville

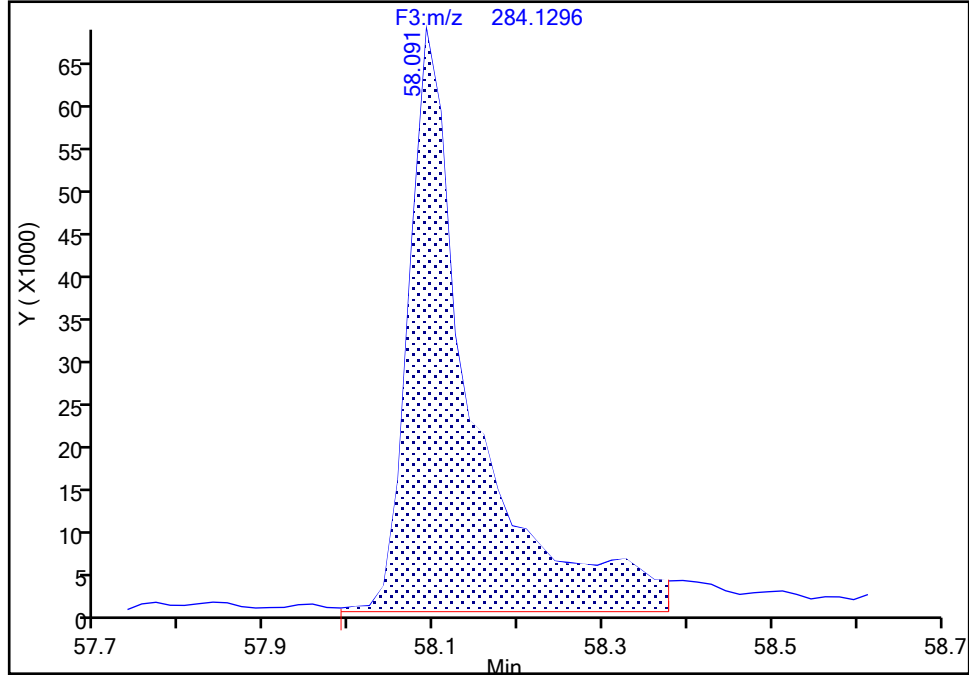
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-8-d.d
Injection Date: 25-Jun-2024 05:02:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-8-D Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

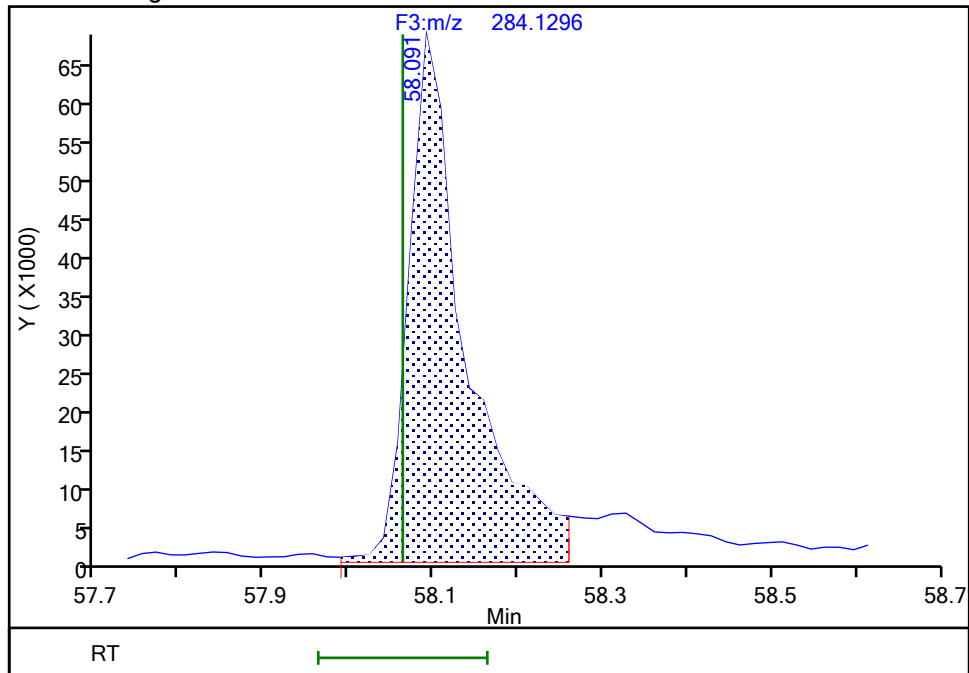
RT: 58.09
Area: 362157
Amount: 97.149375
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
Area: 327796
Amount: 87.931965
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:37:10 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-8-d.d

Injection Date: 25-Jun-2024 05:02:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23-NO.3 BOILER-RUN FB COMBINED

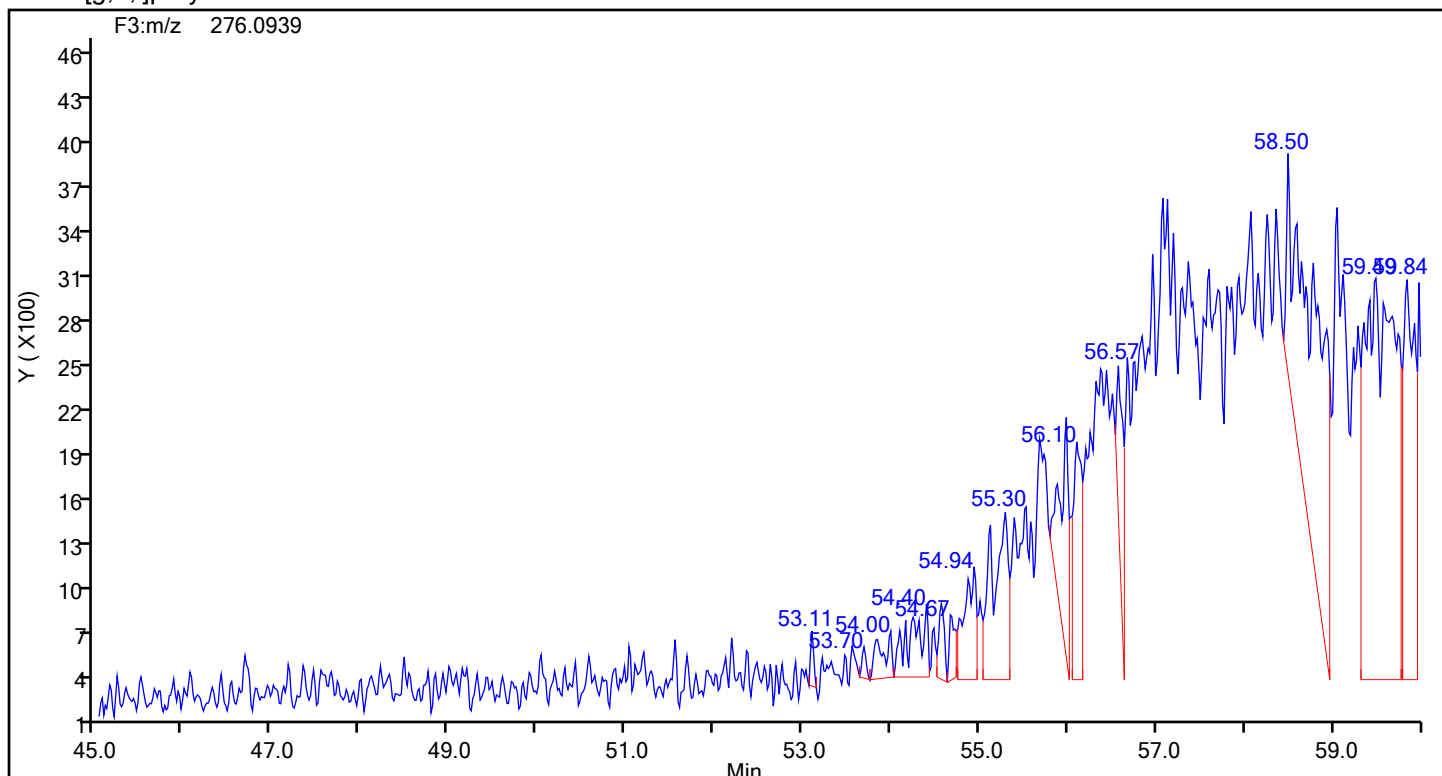
Worklist#: 88048

Sample Line#: 9

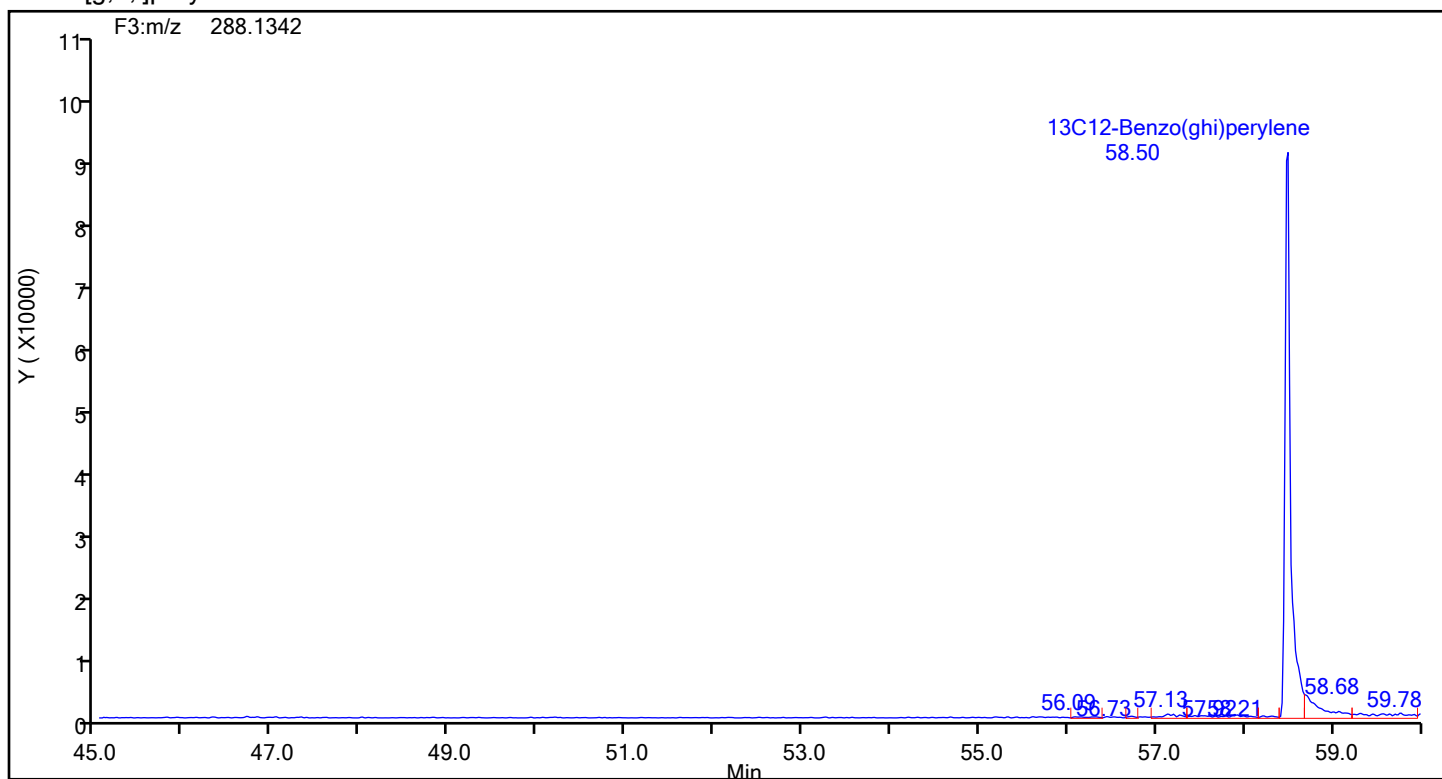
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



Eurofins Knoxville

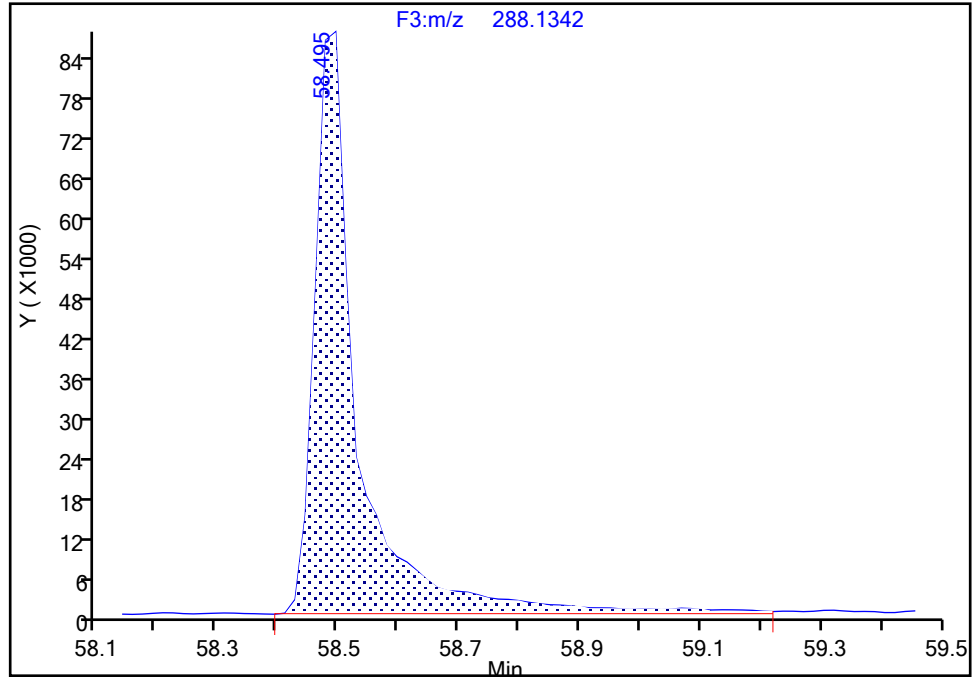
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-8-d.d
Injection Date: 25-Jun-2024 05:02:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-8-D Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

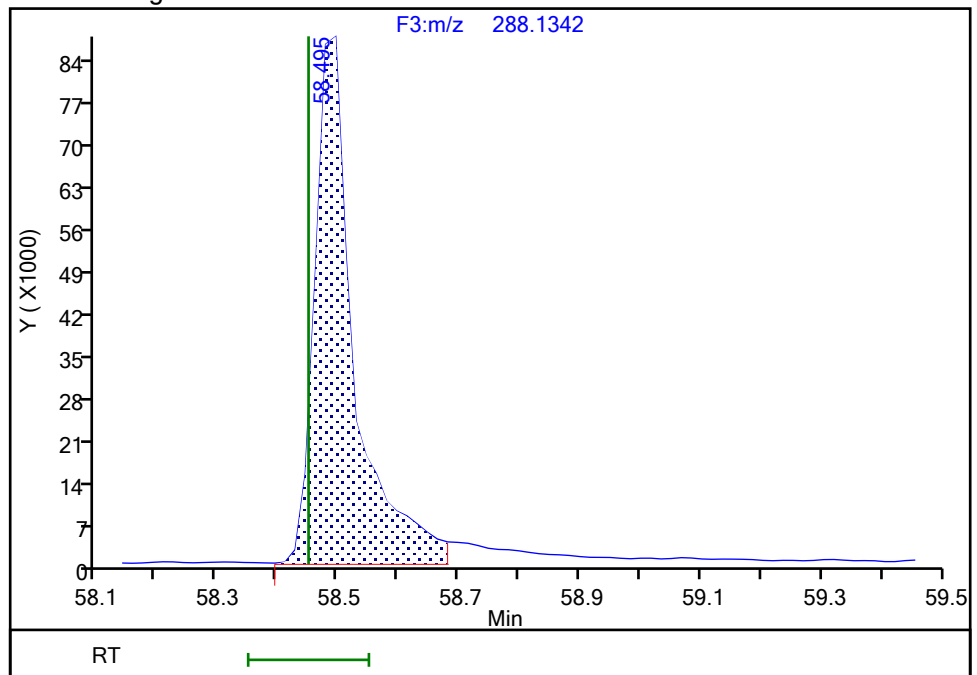
RT: 58.50
Area: 437229
Amount: 97.084004
Amount Units: pg/ul

Processing Integration Results



RT: 58.50
Area: 395457
Amount: 87.808789
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:37:18 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-8-d.d
Lims ID: 140-36689-A-8-D
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Sample Type: Client
Inject. Date: 25-Jun-2024 05:02:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033236-009
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 26-Jun-2024 02:52:50 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1677

First Level Reviewer: F9EE

Date: 25-Jun-2024 11:37:31

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	12.1	120.56
13C6-Benzo(c)fluorene	66.7	73.1	109.61
13C12-Benzo(j)fluoranthene	66.7	55.4	83.06

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 MEDIA CHECK A-2171</u> <u>FILTER, A-2170 XAD</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-14-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/07/2024 00:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/25/2024 06:06</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88048</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	55.8	J B	75.0	75.0	0.0569
91-57-6	2-Methylnaphthalene	20.3	J B	75.0	75.0	0.0438
208-96-8	Acenaphthylene	0.606	J B	3.00	3.00	0.0310
83-32-9	Acenaphthene	6.71	J B	30.0	30.0	0.0495
86-73-7	Fluorene	6.14	J B	30.0	30.0	0.0566
85-01-8	Phenanthrene	8.91	B	6.00	6.00	0.0695
120-12-7	Anthracene	ND		30.0	30.0	0.0664
206-44-0	Fluoranthene	2.33	J B	6.00	6.00	0.0233
129-00-0	Pyrene	3.45	J B	6.00	6.00	0.0229
56-55-3	Benzo[a]anthracene	ND		6.00	6.00	0.0198
218-01-9	Chrysene	0.892	J B	6.00	6.00	0.0189
205-99-2	Benzo[b]fluoranthene	0.335	J B	30.0	30.0	0.0102
207-08-9	Benzo[k]fluoranthene	0.161	J B	6.00	6.00	0.00966
192-97-2	Benzo[e]pyrene	0.816	J B	6.00	6.00	0.00889
50-32-8	Benzo[a]pyrene	0.312	J B	3.00	3.00	0.00897
198-55-0	Perylene	0.428	J B	3.00	3.00	0.00762
193-39-5	Indeno[1,2,3-cd]pyrene	0.229	J B	3.00	3.00	0.00790
53-70-3	Dibenz(a,h)anthracene	ND		6.00	6.00	0.00561
191-24-2	Benzo[g,h,i]perylene	0.189	J B	6.00	6.00	0.00653

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 MEDIA CHECK A-2171</u> <u>FILTER, A-2170 XAD</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-14-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/07/2024 00:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/25/2024 06:06</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88048</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	76		20-130
STL03357	13C6-2-Methylnaphthalene	83		20-130
189811-56-1	13C6-Acenaphthylene	98		20-130
189811-57-2	13C6-Acenaphthene	93		20-130
STL00616	13C6-Fluorene	98		20-130
1397194-60-3	13C6-Fluoranthrene	89		20-130
1397214-90-2	13C3-Pyrene	87		20-130
917378-11-1	13C6-Benzo (a) anthracene	65		20-130
1397177-72-8	13C6-Chrysene	66		20-130
STL03358	13C6-Benzo (b) fluoranthene	82		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	86		20-130
STL03382	13C4-Benzo (e) pyrene	81		20-130
STL03359	13C4-Benzo (a) pyrene	87		20-130
1520-96-3	Perylene-d12	95		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	93		20-130
STL03360	13C6-Dibenz (a,h) anthracene	95		20-130
350820-11-0	13C12-Benzo (ghi) perylene	95		20-130
189811-60-7	13C6-Anthracene	108		20-130
1189955-53-0	13C6-Phenanthrene	94		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-14-d.d
Lims ID: 140-36689-A-14-D
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Sample Type: Client
Inject. Date: 25-Jun-2024 06:06:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033236-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 25-Jun-2024 11:40:29 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: F9EE

Date: 25-Jun-2024 11:40:29

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:30	8925819		3.3746	75.5	75.5	0.007772	0.007772	75.50	
Naphthalene	11:31	4281761		1.2893	37.2	37.2	0.0379	0.0379		
D 13C6-2-Methylnaphthalene	13:51	4671139		1.6031	83.2	83.2	0.001049	0.001049	83.18	
2-Methylnaphthalene	13:52	807778		1.2786	13.5	13.5	0.0292	0.0292		
D 13C6-Acenaphthylene	16:44	5694731		1.6520	98.4	98.4	0.003053	0.003053	98.40	
Acenaphthylene	16:44	30627		2.3661	0.4037	0.4037	0.0206	0.0206		
* Acenaphthene-d10	17:19	1751604		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:26	3206259		0.9792	93.5	93.5	0.003005	0.003005	93.47	
Acenaphthene	17:26	182129		1.2697	4.474	4.474	0.0330	0.0330		
Fluorene	19:44	155827		1.2532	4.090	4.090	0.0378	0.0378		
D 13C6-Fluorene	19:44	3039929		0.8898	97.5	97.5	0.001889	0.001889	97.52	
D 13C6-Phenanthrene	25:06	4373341		0.5724	93.5	93.5	0.007254	0.007254	93.51	
Phenanthrene	25:06	287022		1.1044	5.942	5.942	0.0463	0.0463		
\$ Anthracin-d10	25:20						0.000787	0.000787		U
D 13C6-Anthracene	25:27	3994266		0.4523	108.1	108.1	0.009180	0.009180	108	
Anthracene	25:27						0.0443	0.0443		Ua
D 13C6-Fluoranthrene	33:52	8731000		1.1994	89.1	89.1	0.0265	0.0265	89.10	
Fluoranthene	33:52	156131		1.1513	1.553	1.553	0.0155	0.0155		
* Pyrene-d10	35:25	4084915		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:33	9631947		1.3512	87.3	87.3	0.0157	0.0157	87.25	
Pyrene	35:33	235689		1.0652	2.297	2.297	0.0152	0.0152		
\$ 13C6-Benzo(c)fluorene	39:14						0.005216	0.005216		
D 13C6-Benzo(a)anthracene	46:05	6927864		1.5189	64.9	64.9	0.0137	0.0137	64.94	
Benzo[a]anthracene	46:04						0.0132	0.0132		
D 13C6-Chrysene	46:21	7535374		1.6287	65.9	65.9	0.0127	0.0127	65.88	
Chrysene	46:21	43983		0.9815	0.5947	0.5947	0.0126	0.0126		
D 13C6-Benzo(b)fluoranthene	54:38	8396585		1.4621	81.8	81.8	0.001167	0.001167	81.77	
Benzo[b]fluoranthene	54:39	21095		1.1249	0.2233	0.2233	0.006794	0.006794		
\$ 13C12-Benzo(j)fluoranthene	54:39						0.0265	0.0265		U
D 13C6-Benzo(k)fluoranthene	54:45	10575186		1.7507	86.0	86.0	0.000975	0.000975	86.01	
Benzo[k]fluoranthene	54:46	12776		1.1271	0.1072	0.1072	0.006442	0.006442		
* Benzo(e)pyrene-d12	55:29	3511566		5.7E+04	50.0	50.0				
D 13C4-Benzo(e)pyrene	55:34	9296983		1.6368	80.9	80.9	0.0117	0.0117	80.87	
Benzo[e]pyrene	55:35	50654		1.0013	0.5442	0.5442	0.005926	0.005926		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[a]pyrene	55:43	21791		1.1130	0.2077	0.2077	0.005978	0.005978		
D 13C4-Benzo(a)pyrene	55:43	9424457		1.5508	86.5	86.5	0.0124	0.0124	86.53	
D Perylene-d12	55:53	7912086		1.1917	94.5	94.5	0.0275	0.0275	94.54	
Perylene	55:53	32293		1.4307	0.2853	0.2853	0.005078	0.005078		
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	6688975		1.0218	93.2	93.2	0.0109	0.0109	93.21	a
Indeno[1,2,3-cd]pyrene	58:01	11463		1.1249	0.1523	0.1523	0.005266	0.005266		M
D 13C6-Dibenz(a,h)anthracene	58:05	7027348		1.0553	94.8	94.8	0.005113	0.005113	94.82	M
Dibenz(a,h)anthracene	58:04						0.003742	0.003742		
D 13C12-Benzo(ghi)perylene	58:29	8489642		1.2749	94.8	94.8	0.003437	0.003437	94.82	M
Benzo[g,h,i]perylene	58:29	13740		1.2838	0.1261	0.1261	0.004354	0.004354		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-14-d.d
Lims ID: 140-36689-A-14-D
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Sample Type: Client
Inject. Date: 25-Jun-2024 06:06:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033236-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 25-Jun-2024 11:40:29 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: F9EE

Date: 25-Jun-2024 11:40:29

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:30	11:28	-1	0.664	8925819	3001308	125	312	24010		
Naphthalene											
128.0626	11:31	11:28	-1	1.001	4281761	1363903	587	1467	2324		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:50	0	0.800	4671139	2093982	8	20	261748		
2-Methylnaphthalene											
142.0783	13:52	13:51	0	1.001	807778	349602	313	782	1117		
13C6-Acenaphthylene											
158.0828	16:44	16:43	0	0.966	5694731	1915409	24	60	79809		
Acenaphthylene											
152.0626	16:44	16:45	0	1.000	30627	9043	212	530	43		
Acenaphthene-d10											
164.1404	17:19	17:18	1		1751604	594801	12	30	49567		
13C6-Acenaphthene											
160.0984	17:26	17:25	0	1.007	3206259	1085144	14	35	77510		
Acenaphthene											
154.0783	17:26	17:25	0	1.000	182129	60371	182	455	332		
Fluorene											
166.0783	19:44	19:42	0	1.000	155827	44171	157	392	281		
13C6-Fluorene											
172.0984	19:44	19:43	0	1.139	3039929	828335	8	20	103542		
13C6-Phenanthrene											
184.0984	25:06	25:06	0	0.709	4373341	1000424	25	62	40017		
Phenanthrene											
178.0783	25:06	25:06	0	1.000	287022	63941	205	512	312		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10	188.1410	25:20					2	5			U
13C6-Anthracene	184.0984	25:27	25:25	1	0.719	3994266	850744	25	62	34030	E
Anthracene	178.0783	25:27					205	512			Ua
13C6-Fluoranthrene	208.0984	33:52	33:50	1	0.956	8731000	1635536	190	475	8608	
Fluoranthene	202.0783	33:52	33:52	0	1.000	156131	28059	117	292	240	
Pyrene-d10	212.1404	35:25	35:24	0		4084915	746555	28	70	26663	
13C3-Pyrene	205.0883	35:33	35:32	0	1.004	9631947	1798498	127	317	14161	
Pyrene	202.0783	35:33	35:32	0	1.000	235689	40692	117	292	348	
13C6-Benzo(c)fluorene	222.1134	39:16					16	40			
13C6-Benzo(a)anthracene	234.1140	46:05	46:03	1	1.301	6927864	1180648	180	450	6559	
Benzo[a]anthracene	228.0939	46:05					61	152			
13C6-Chrysene	234.1140	46:21	46:19	1	1.309	7535374	1230590	180	450	6837	
Chrysene	228.0939	46:21	46:20	1	1.000	43983	7377	61	152	121	
13C6-Benzo(b)fluoranthene	258.1140	54:38	54:38	1	0.985	8396585	2289697	15	37	152647	
Benzo[b]fluoranthene	252.0939	54:39	54:39	2	1.000	21095	4533	70	175	65	
13C12-Benzo(j)fluoranthene	264.1336	54:41					312	780			U
13C6-Benzo(k)fluoranthene	258.1140	54:45	54:45	1	0.987	10575186	2410195	15	37	160680	
Benzo[k]fluoranthene	252.0939	54:46	54:46	2	1.000	12776	2323	70	175	33	
Benzo(e)pyrene-d12	264.1692	55:29	55:28	2		3511566	1084176	284	710	3818	
13C4-Benzo(e)pyrene	256.1073	55:34	55:34	1	1.001	9296983	2949498	167	417	17662	
Benzo[e]pyrene	252.0939	55:35	55:34	2	1.000	50654	15301	70	175	219	
Benzo[a]pyrene	252.0939	55:43	55:43	2	1.000	21791	3385	70	175	48	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:42	2	1.004	9424457	2630298	167	417	15750		
Perylene-d12											
264.1692	55:53	55:52	2	1.007	7912086	2408883	284	710	8482		
Perylene											
252.0939	55:53	55:58	-2	1.000	32293	6902	70	175	99		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:01	-3	1.046	6688975	2143725	97	242	22100		a
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:01	-3	1.000	11463	2954	51	127	58		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:05	58:05	1	1.047	7027348	1889656	47	117	40205		M
Dibenz(a,h)anthracene											
278.1096	58:05						32	80			
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:29	2	1.054	8489642	2272268	38	95	59797		M
Benzo[g,h,i]perylene											
276.0939	58:29	58:29	1	1.000	13740	3834	51	127	75		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

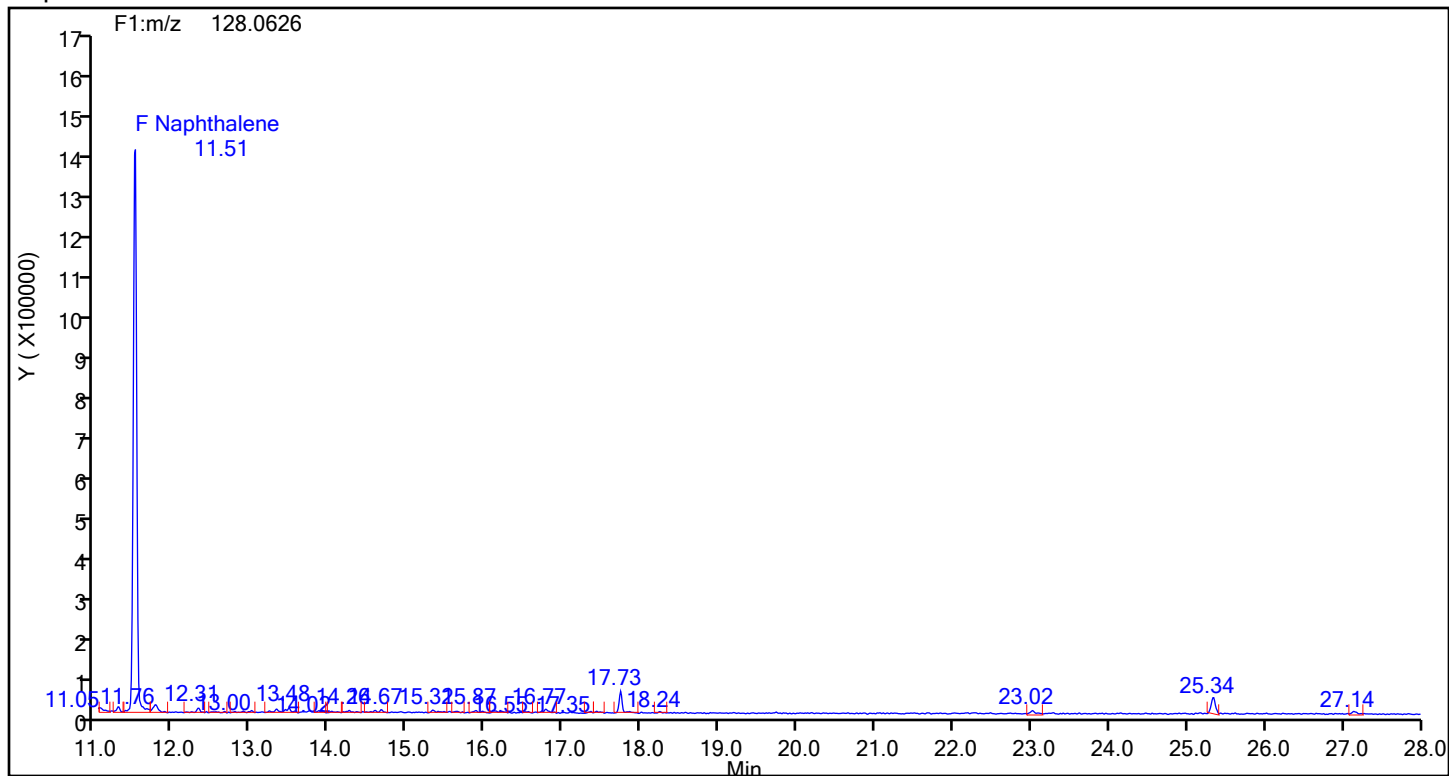
U - Marked Undetected

a - User Assigned ID

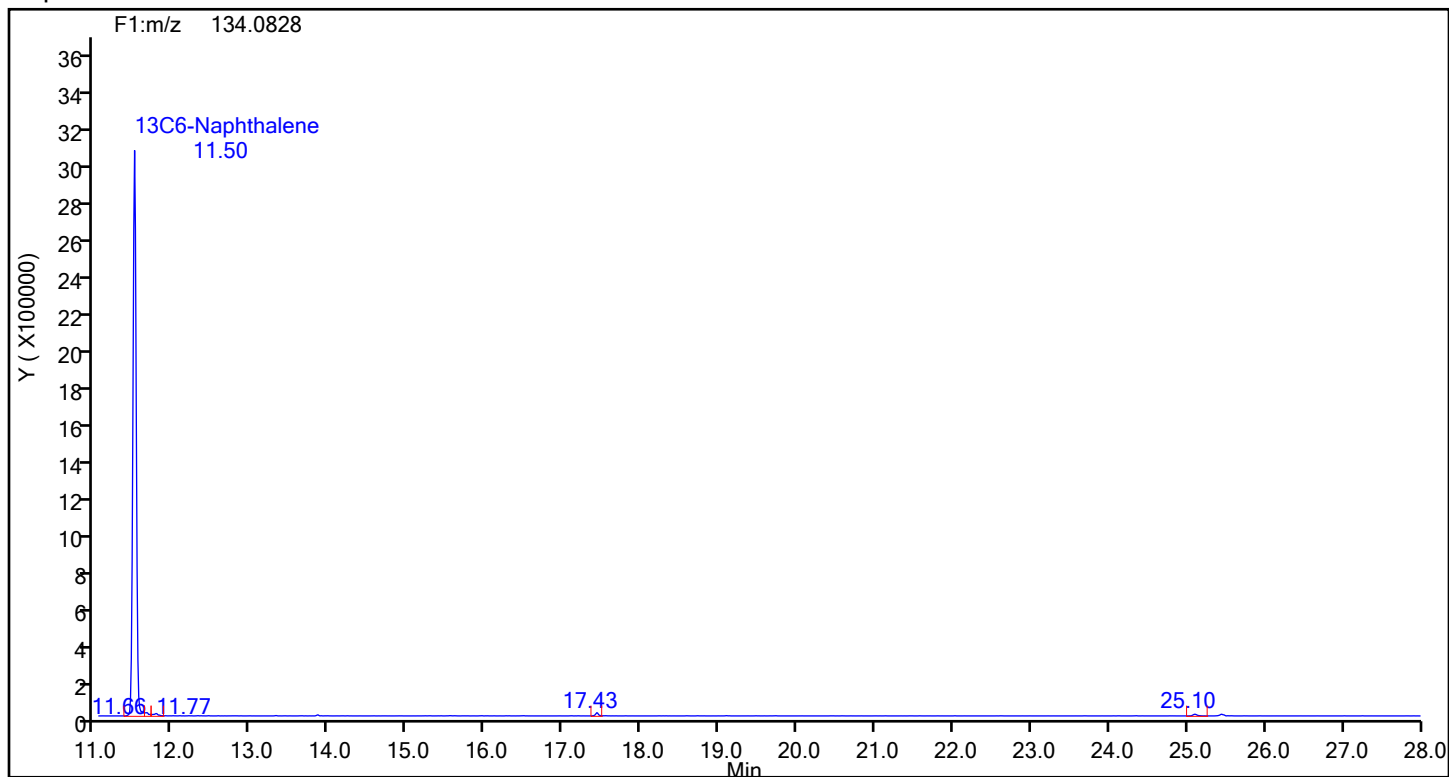
Eurofins Knoxville

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Injection Date: 25-Jun-2024 06:06:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 88048 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



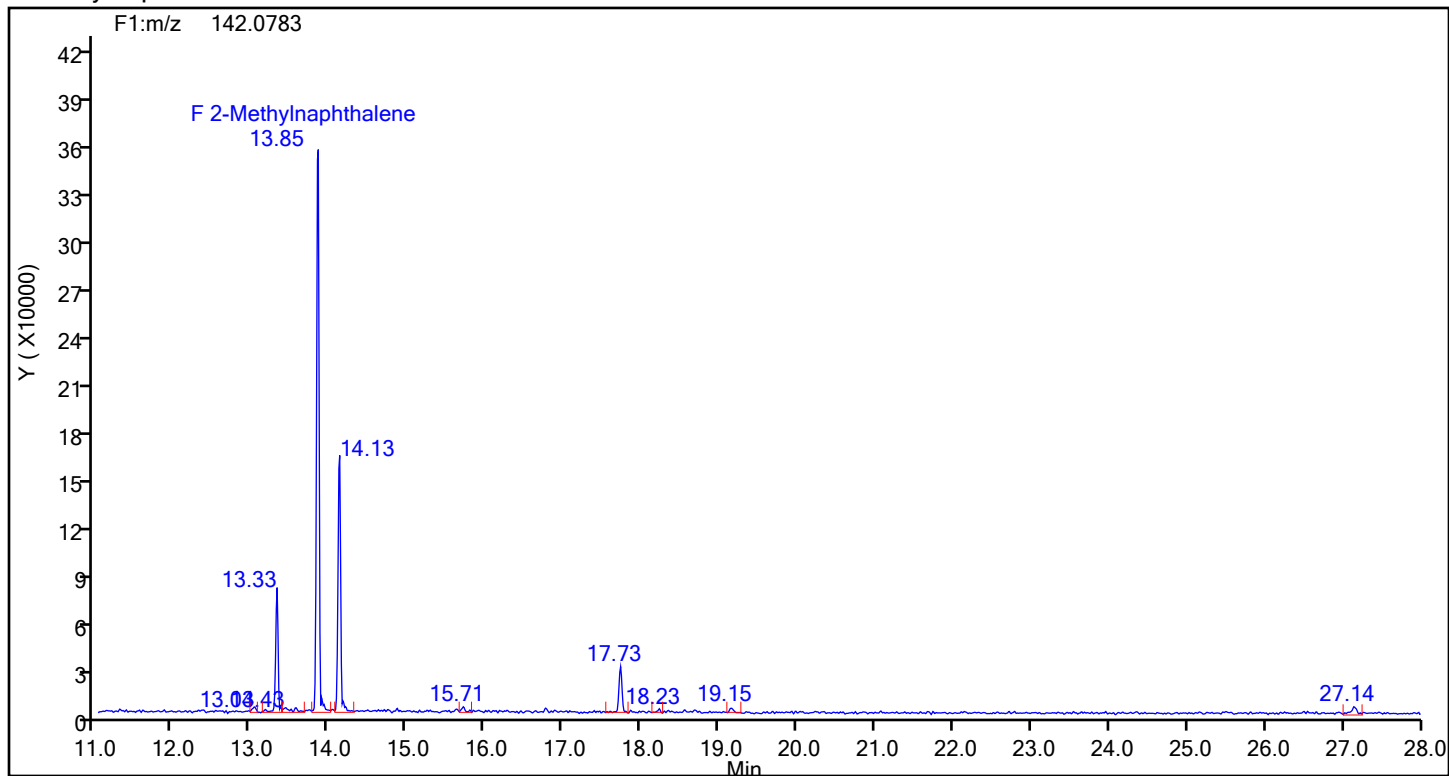
Naphthalene Standards



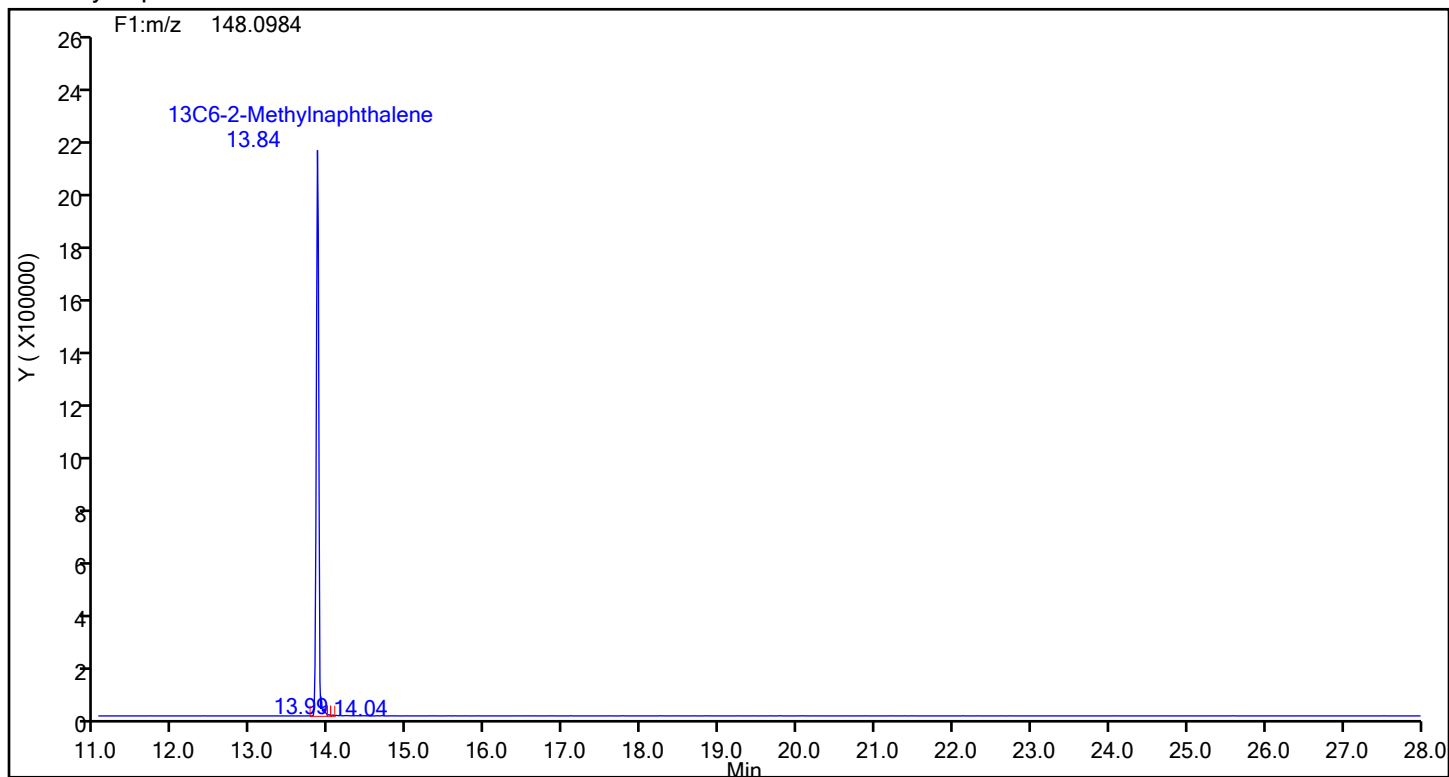
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 88048 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



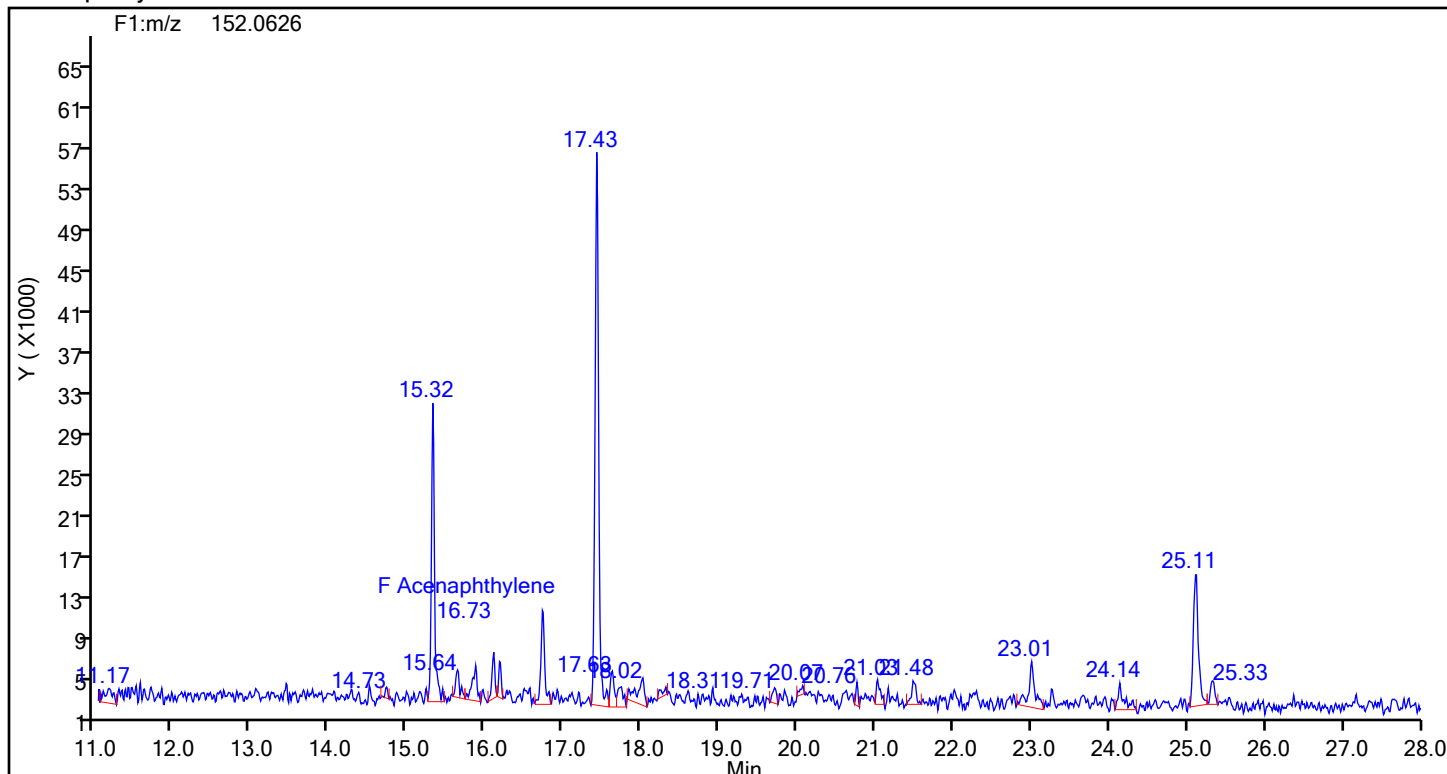
2-Methylnaphthalene Standards



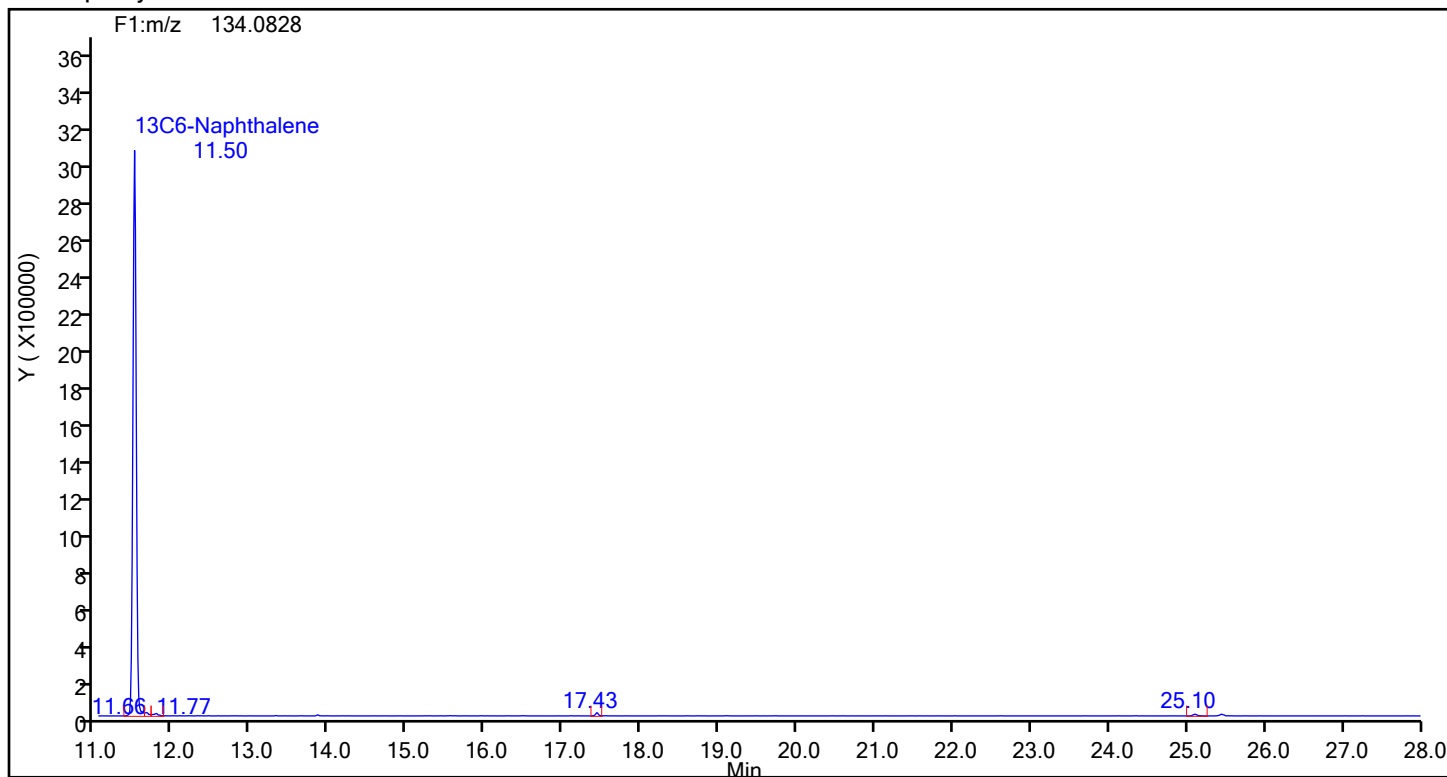
Eurofins Knoxville

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Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 88048 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



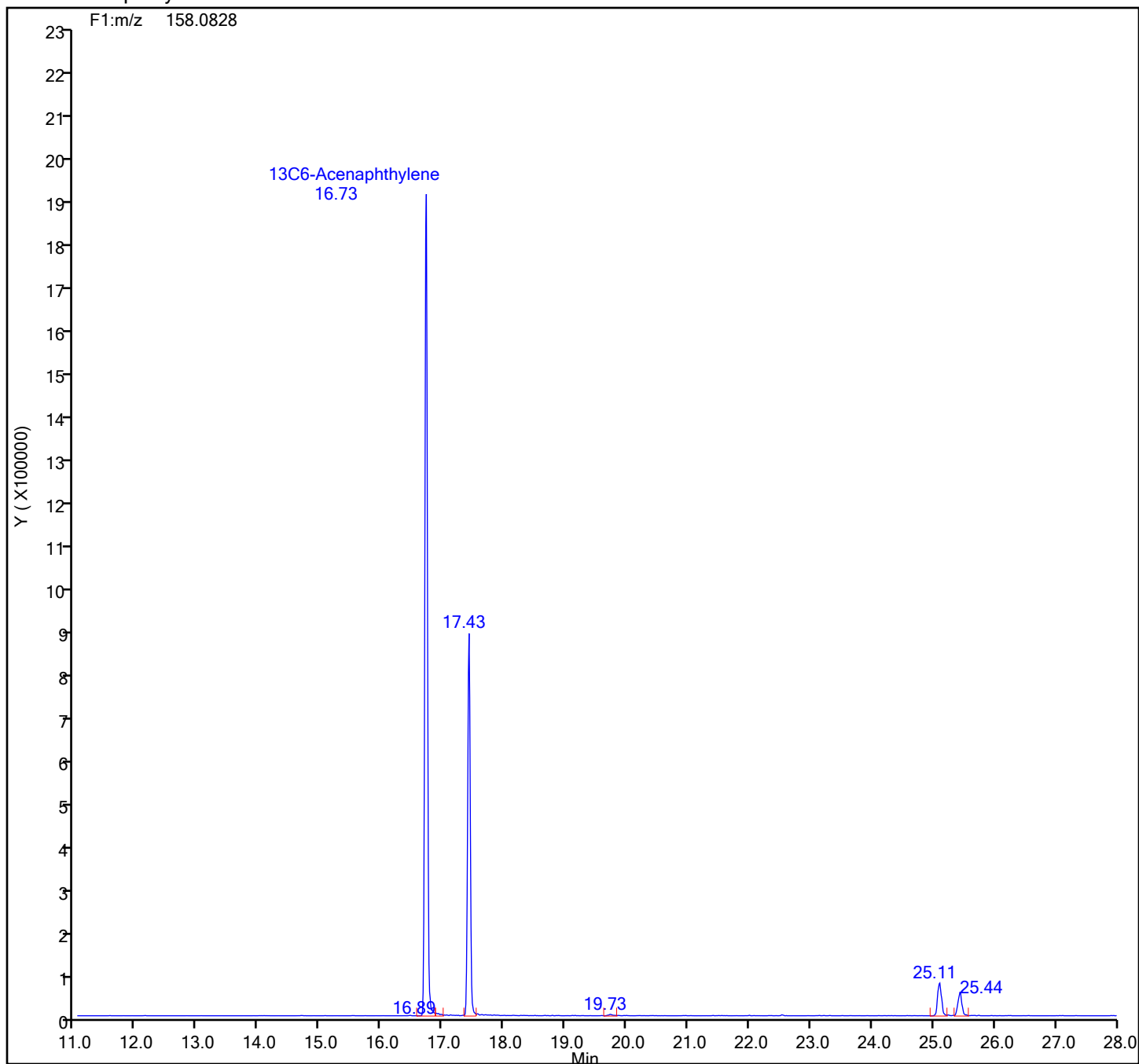
Acenaphthylene Standards



Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
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Worklist#: 88048 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

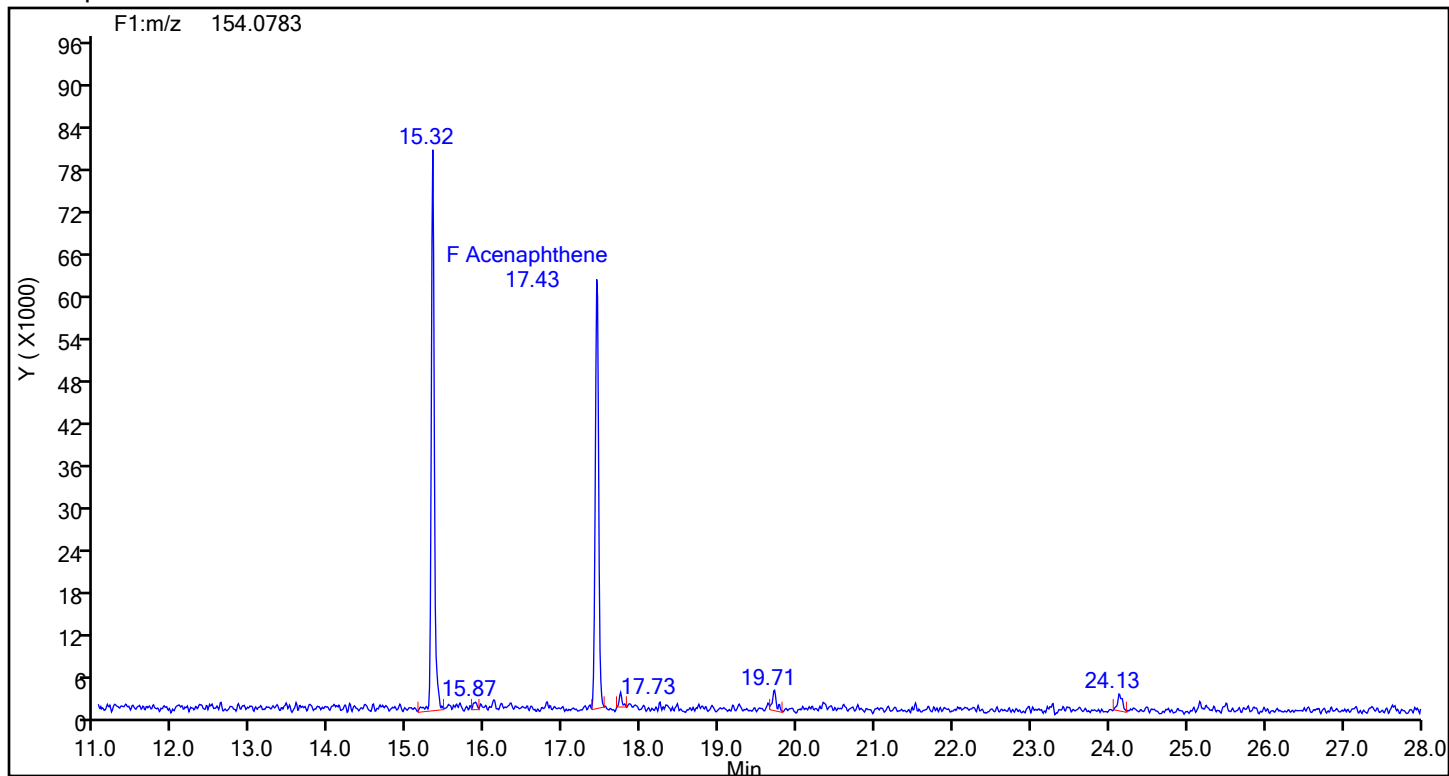
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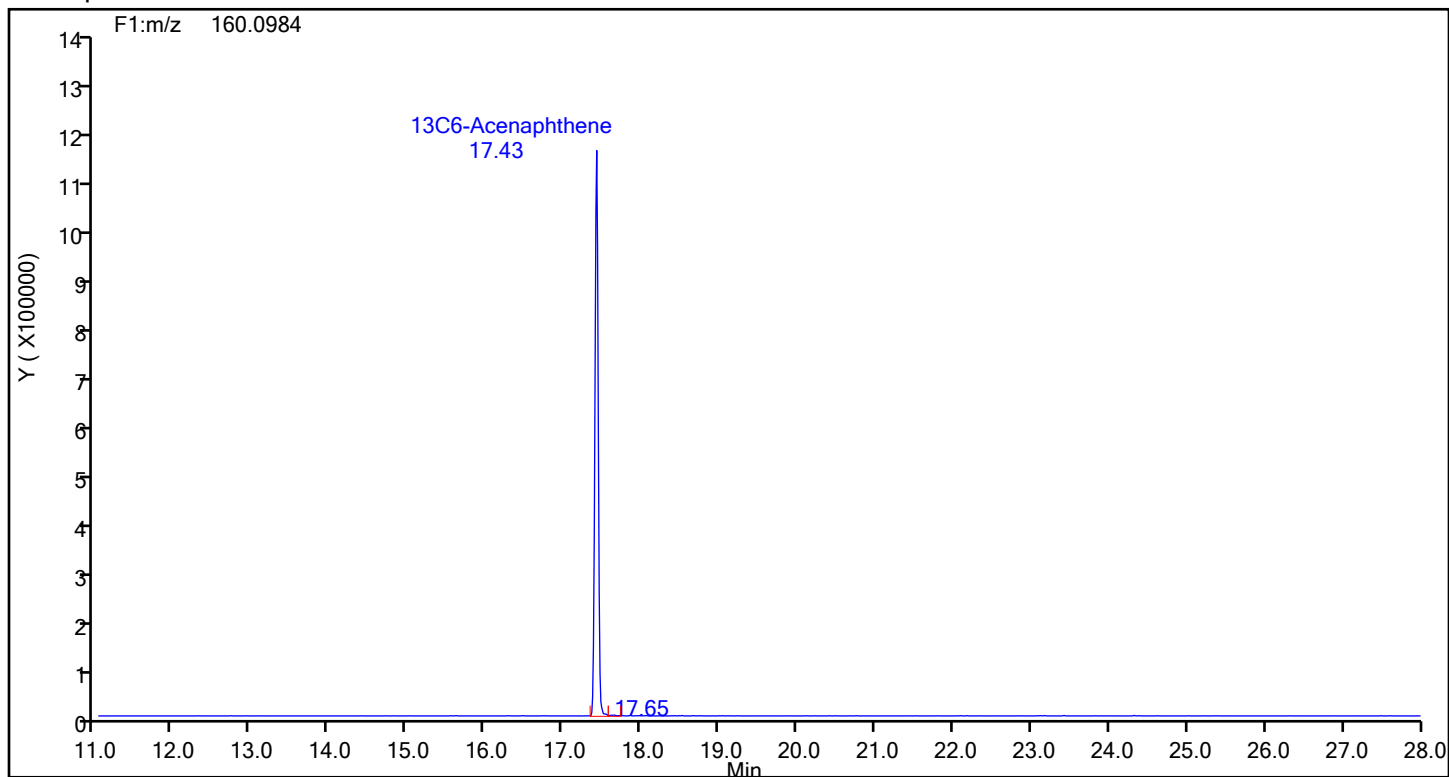
Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
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Acenaphthene



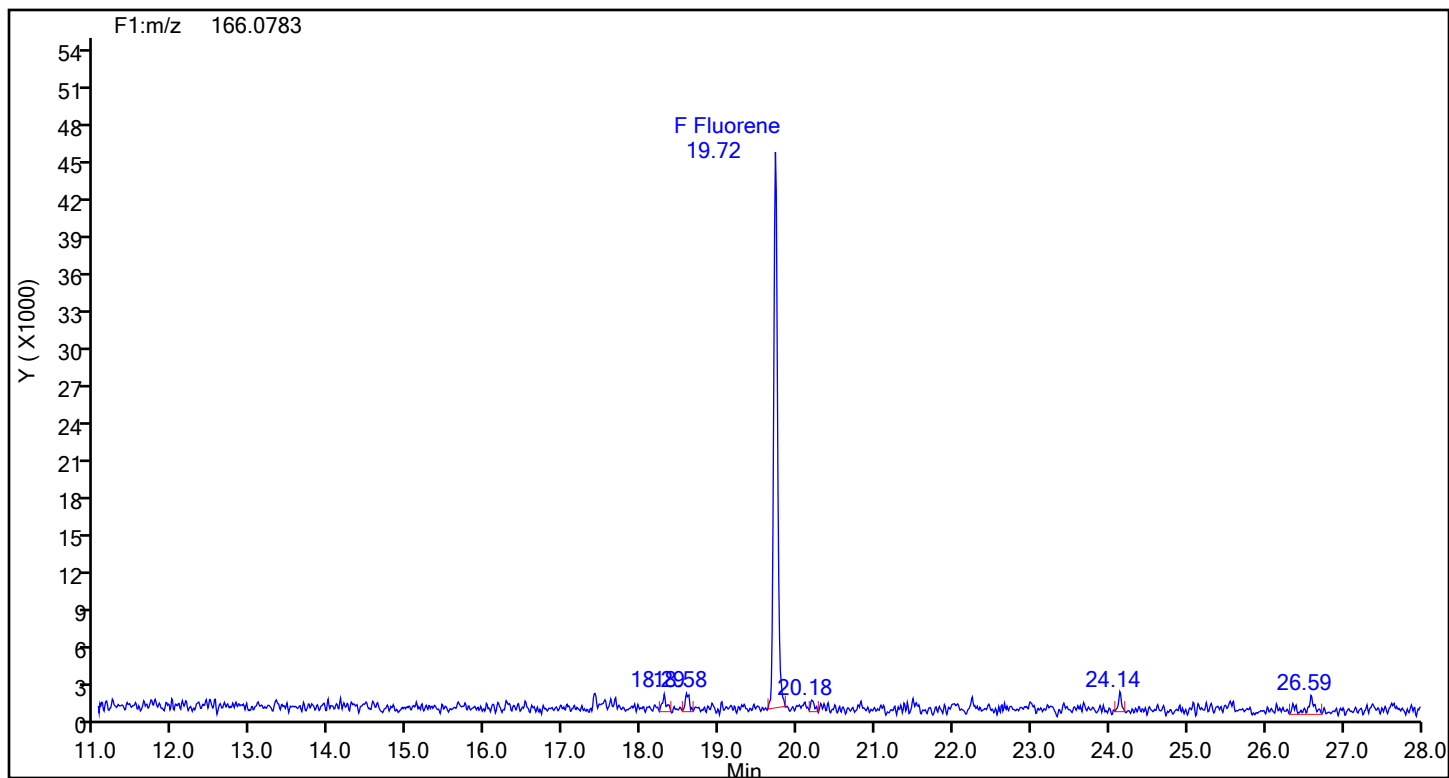
Acenaphthene Standards



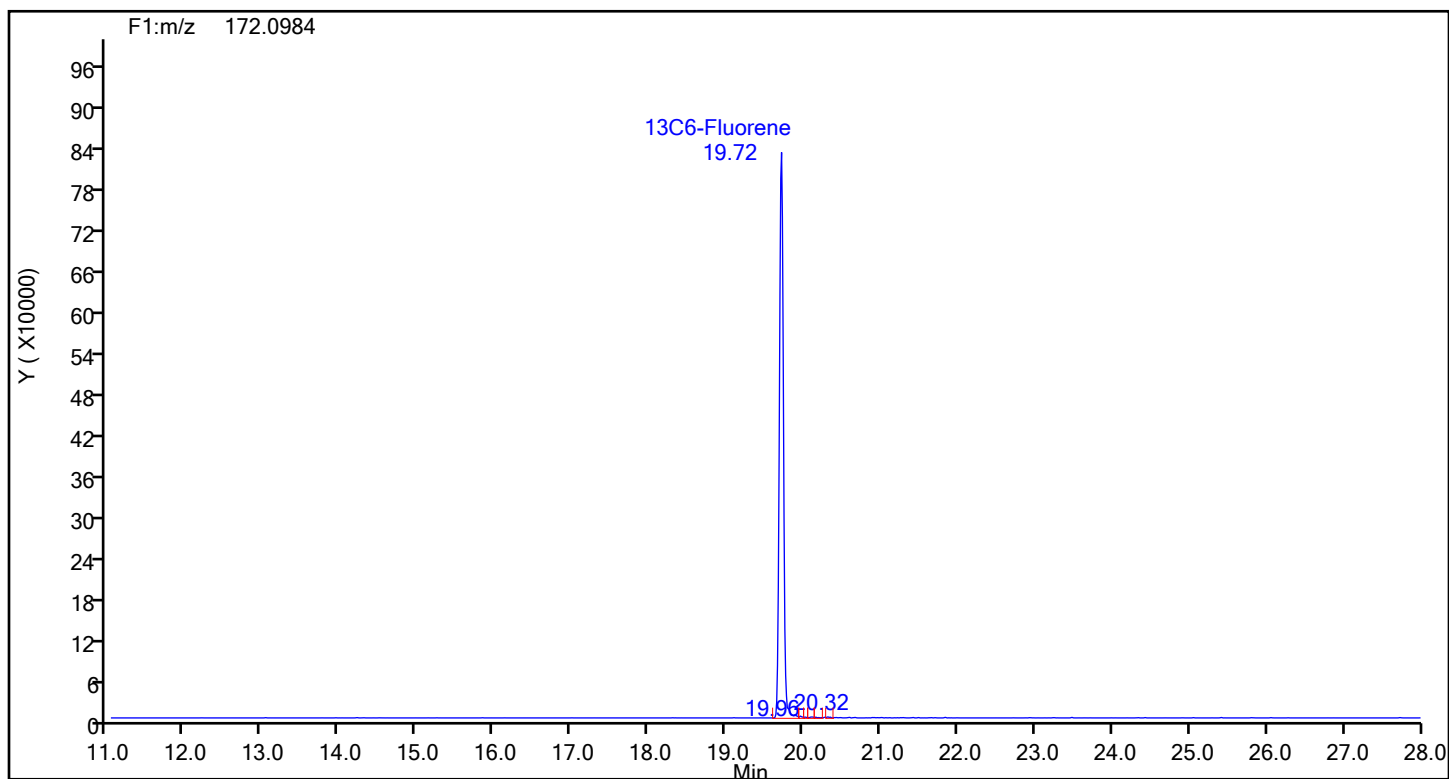
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Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



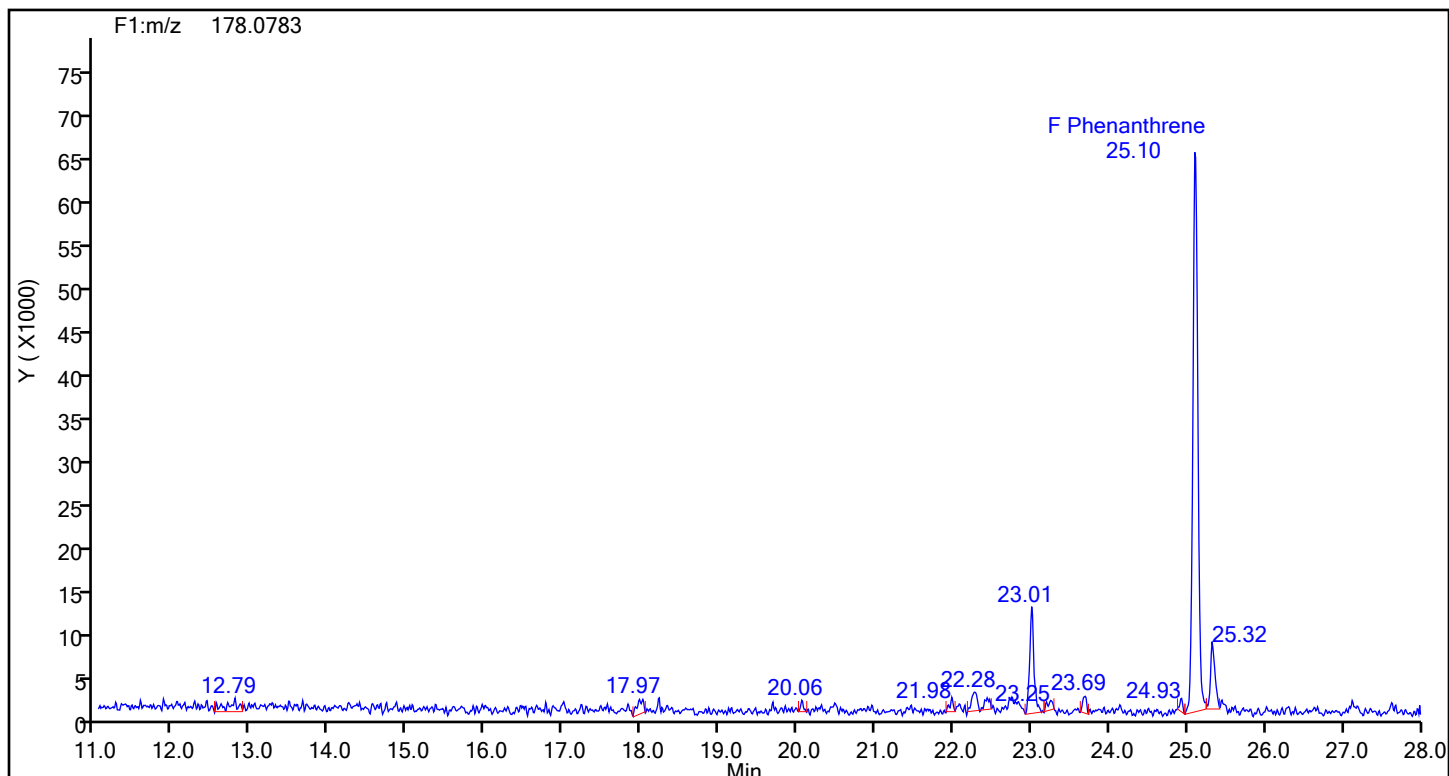
Fluorene Standards



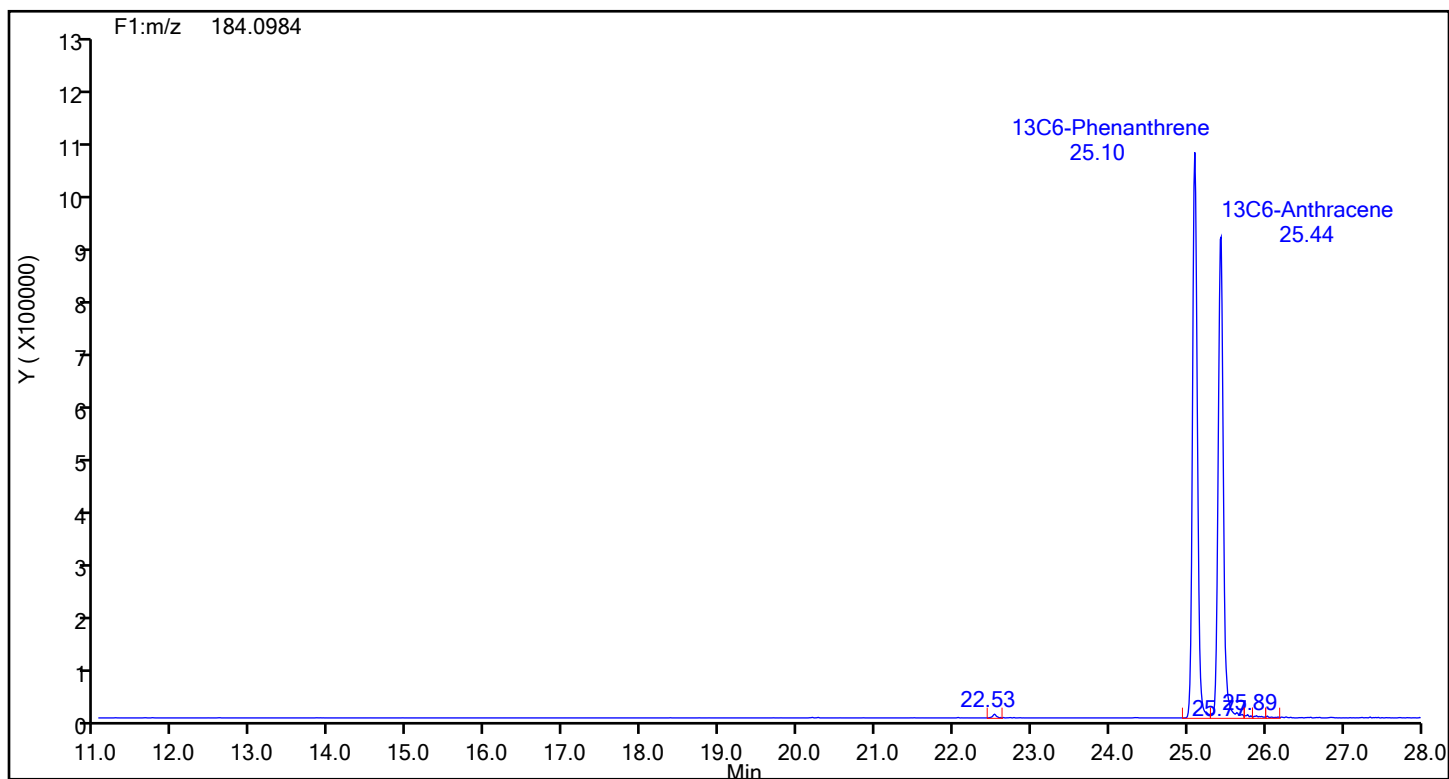
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Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 88048 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

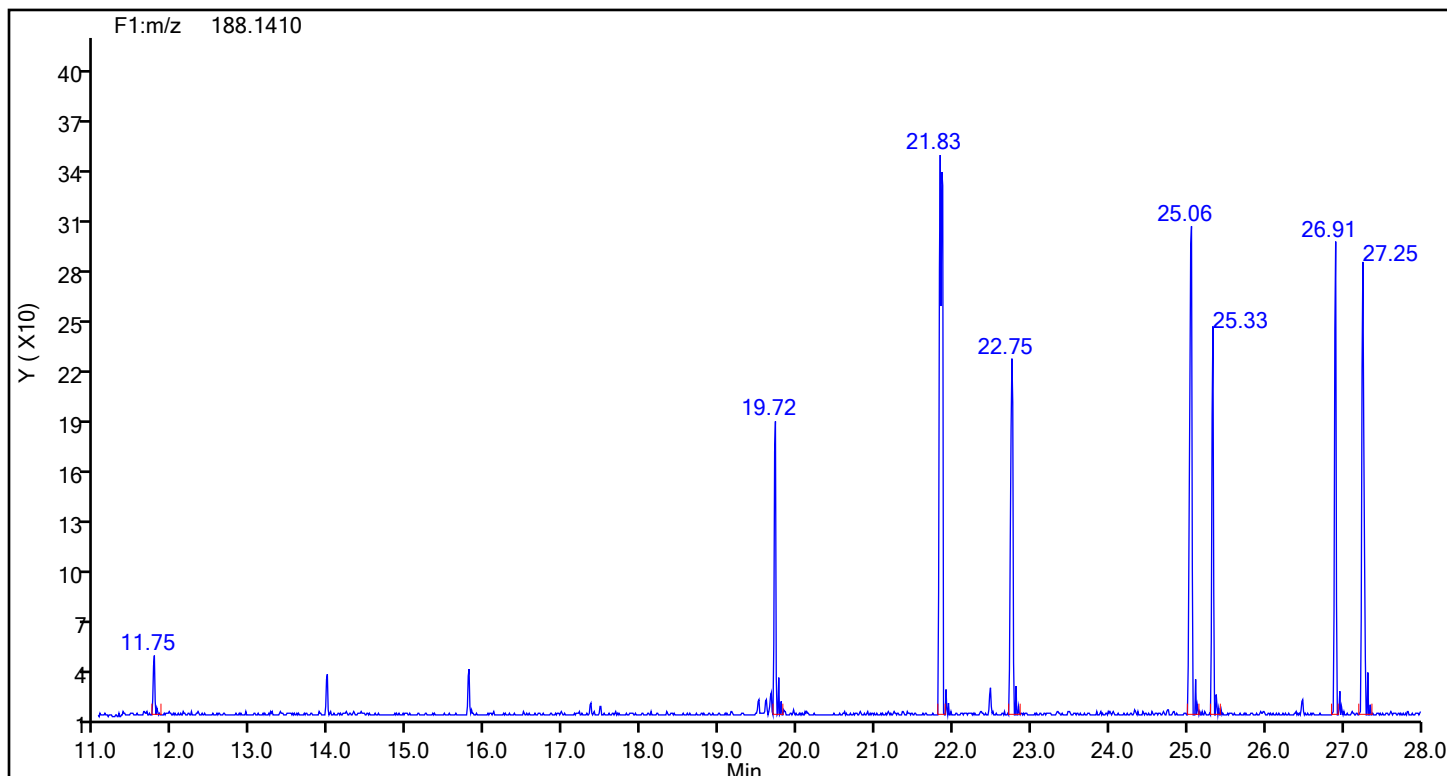


Phenanthrene Standards

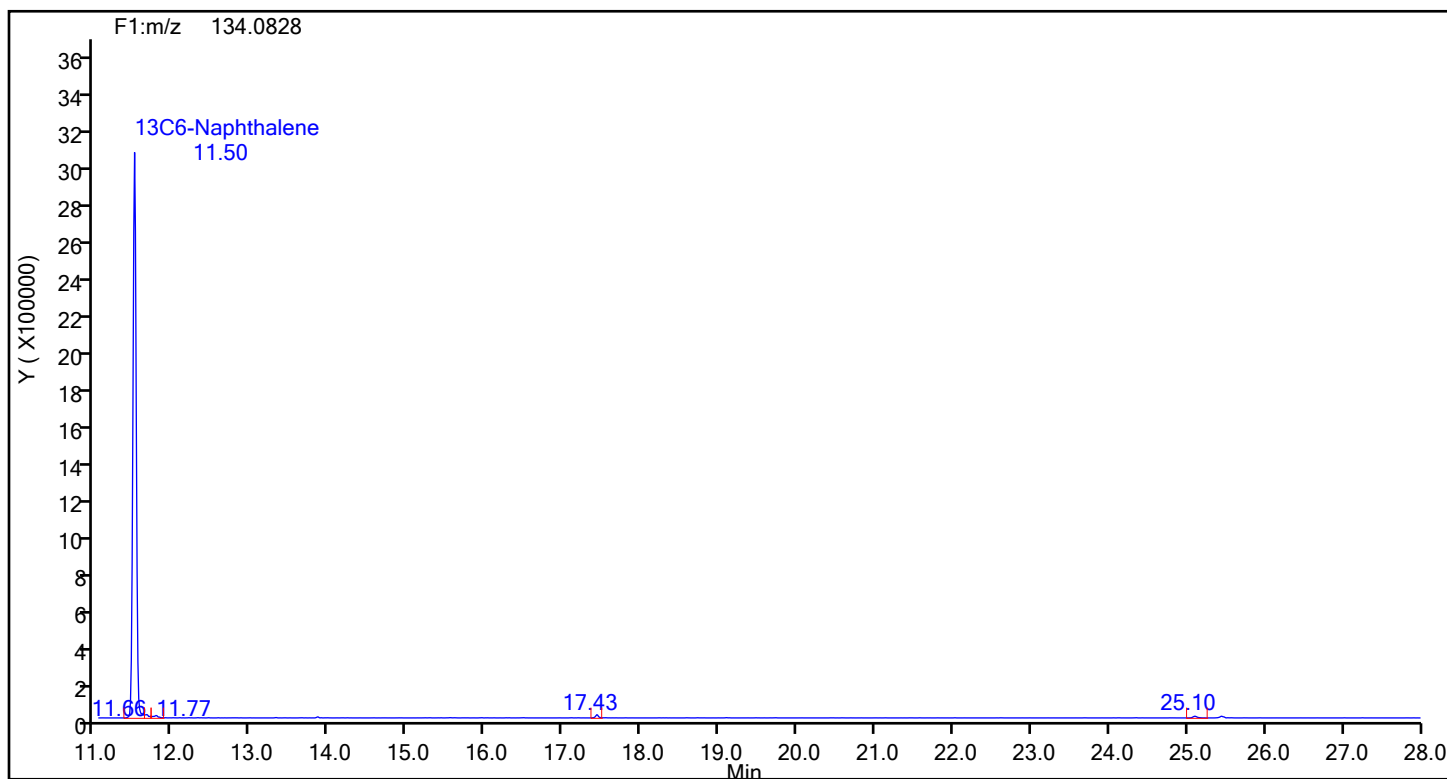


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Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 88048 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



Anthracin-d10 Standards



Eurofins Knoxville

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Injection Date: 25-Jun-2024 06:06:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

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Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

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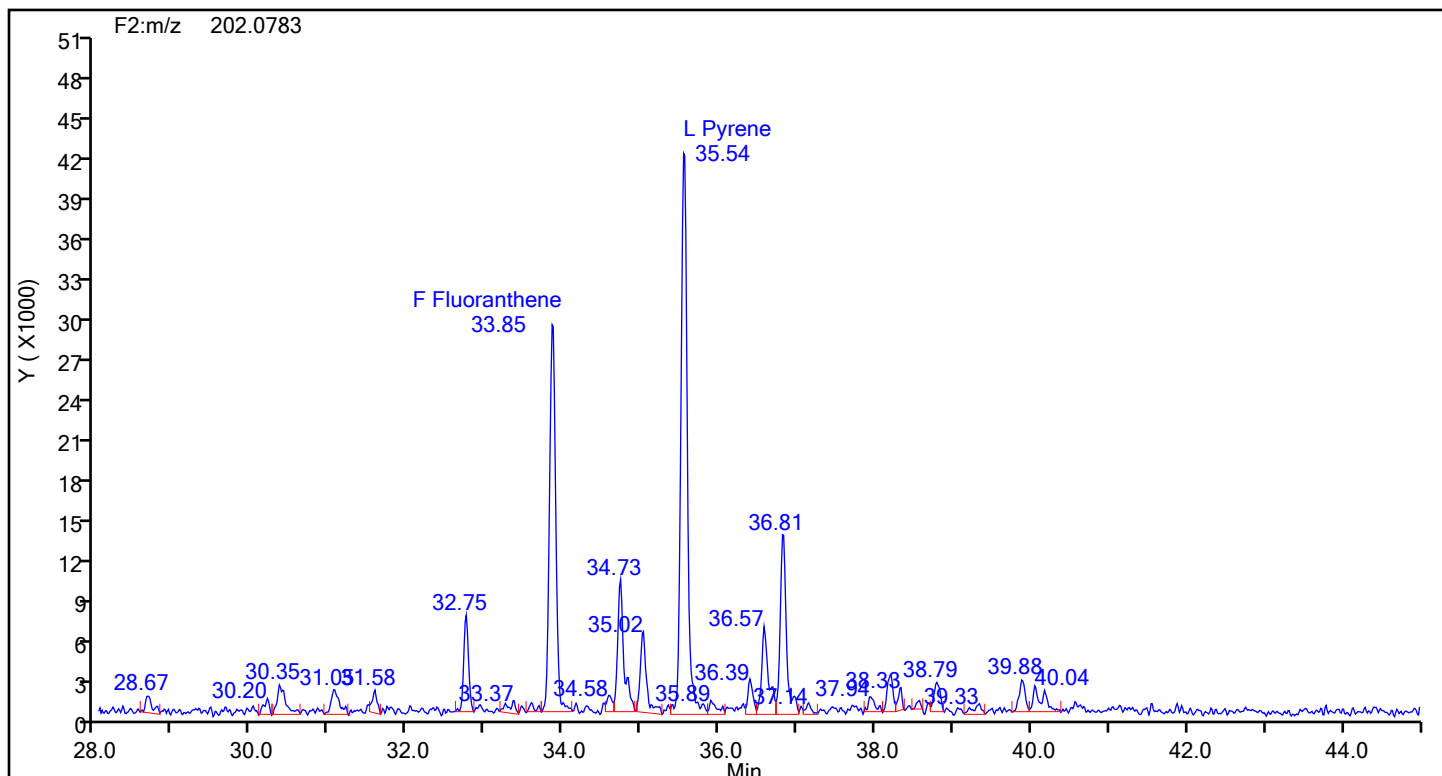
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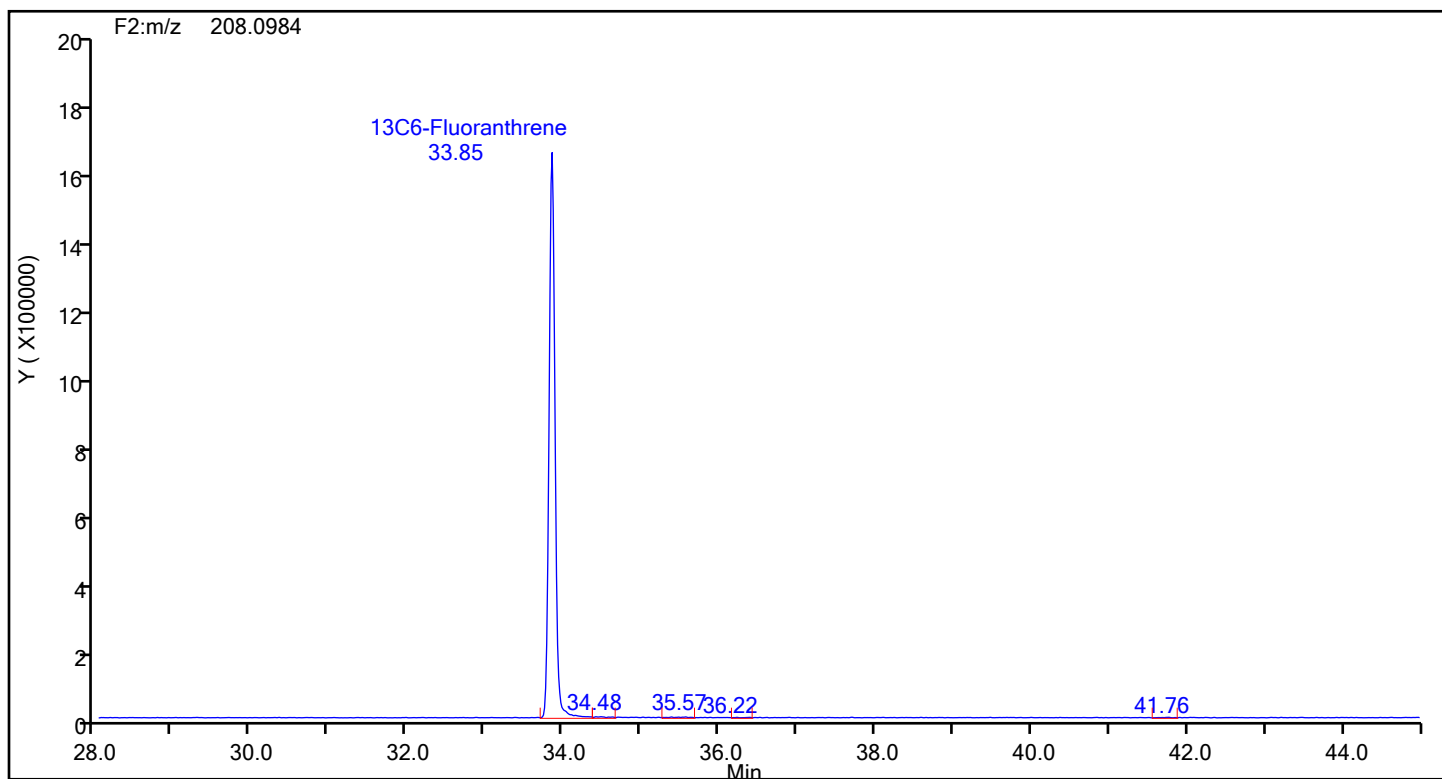
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Column Dia: 0.25 mm

Fluoranthene



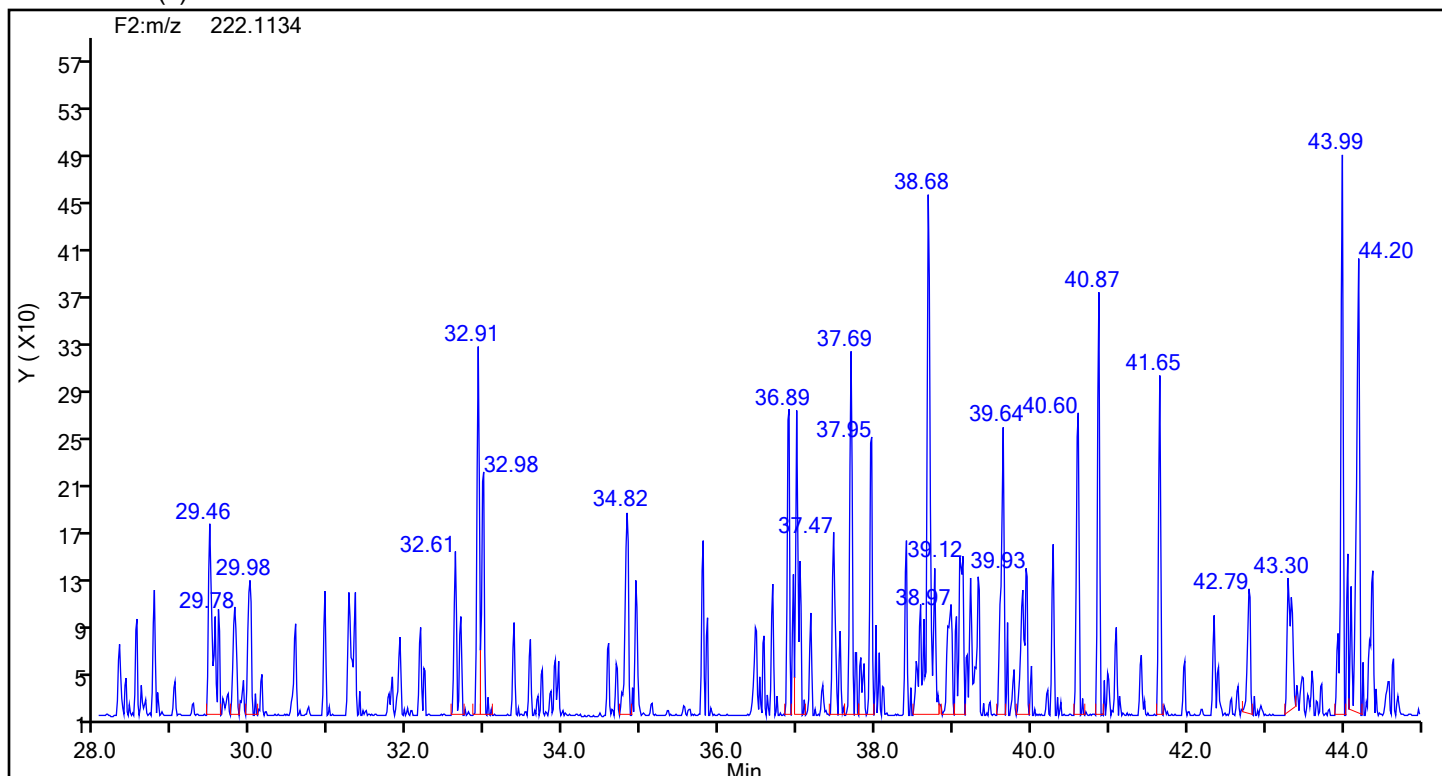
Fluoranthene Standards



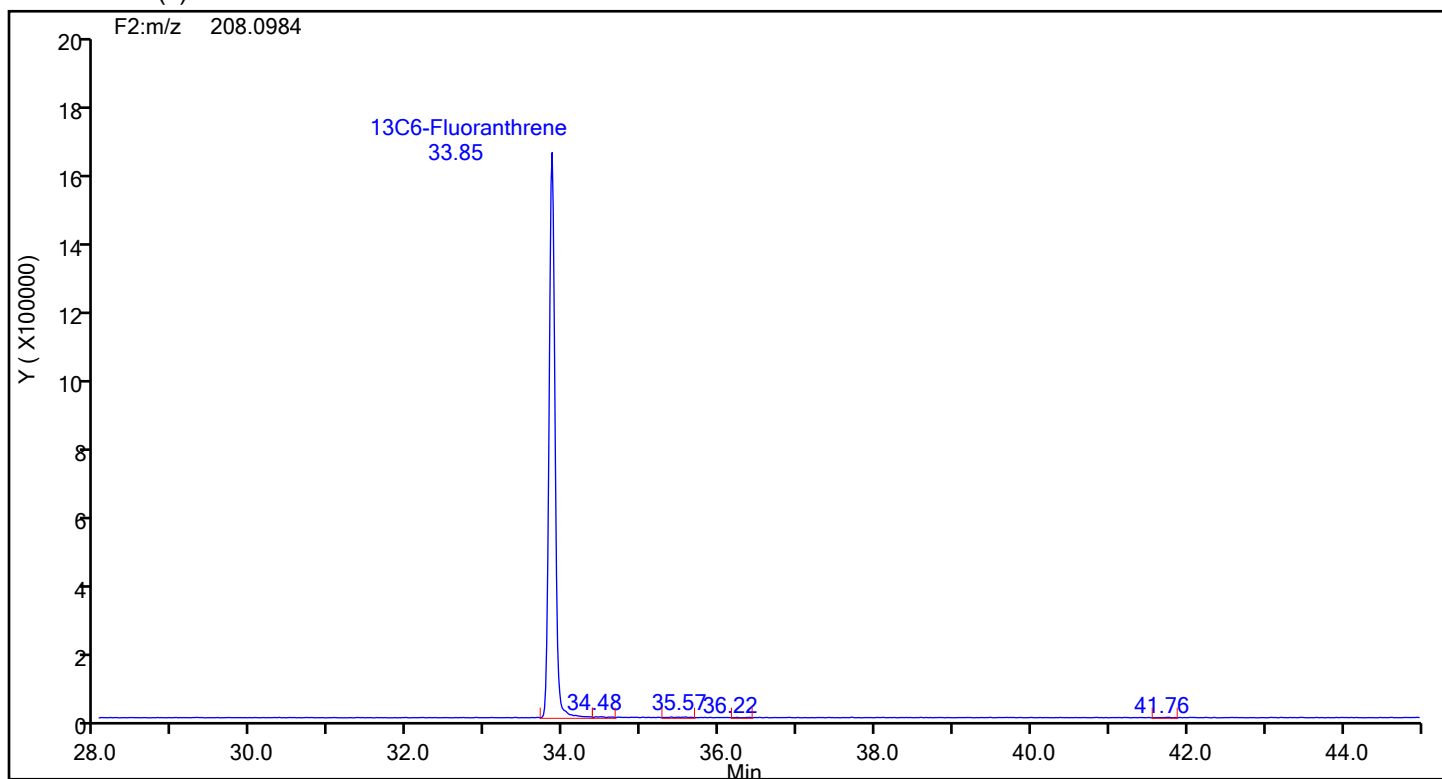
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
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Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



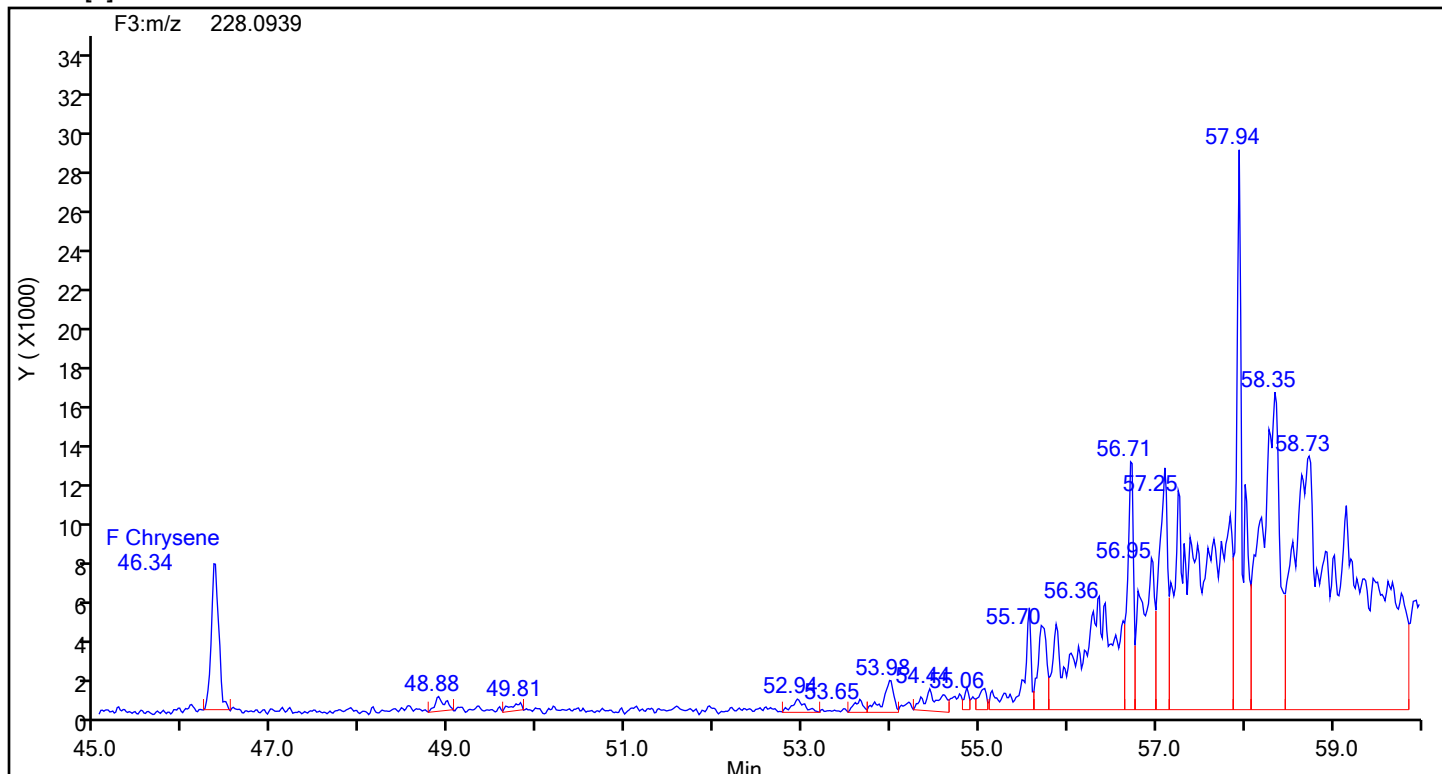
13C6-Benzo(c)fluorene Standards



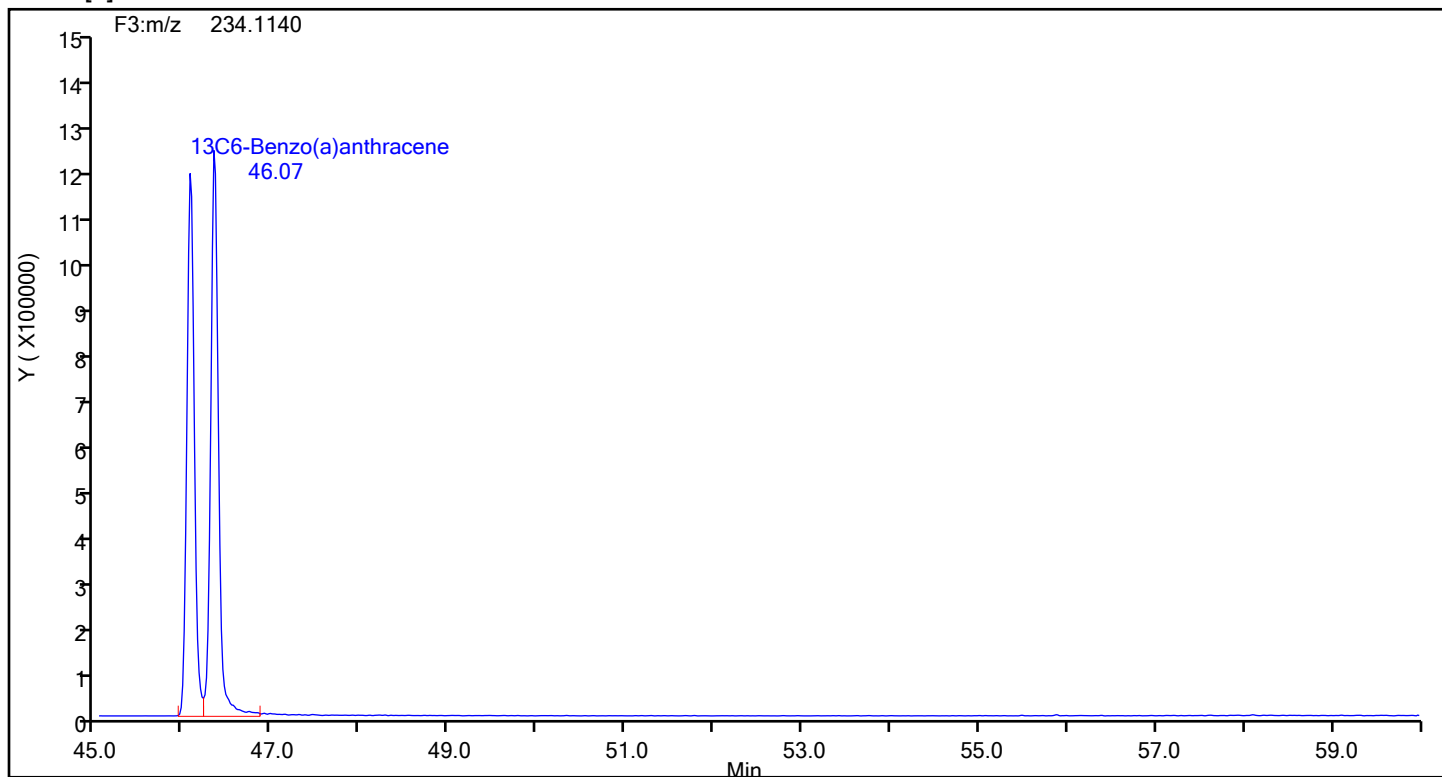
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Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 88048 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



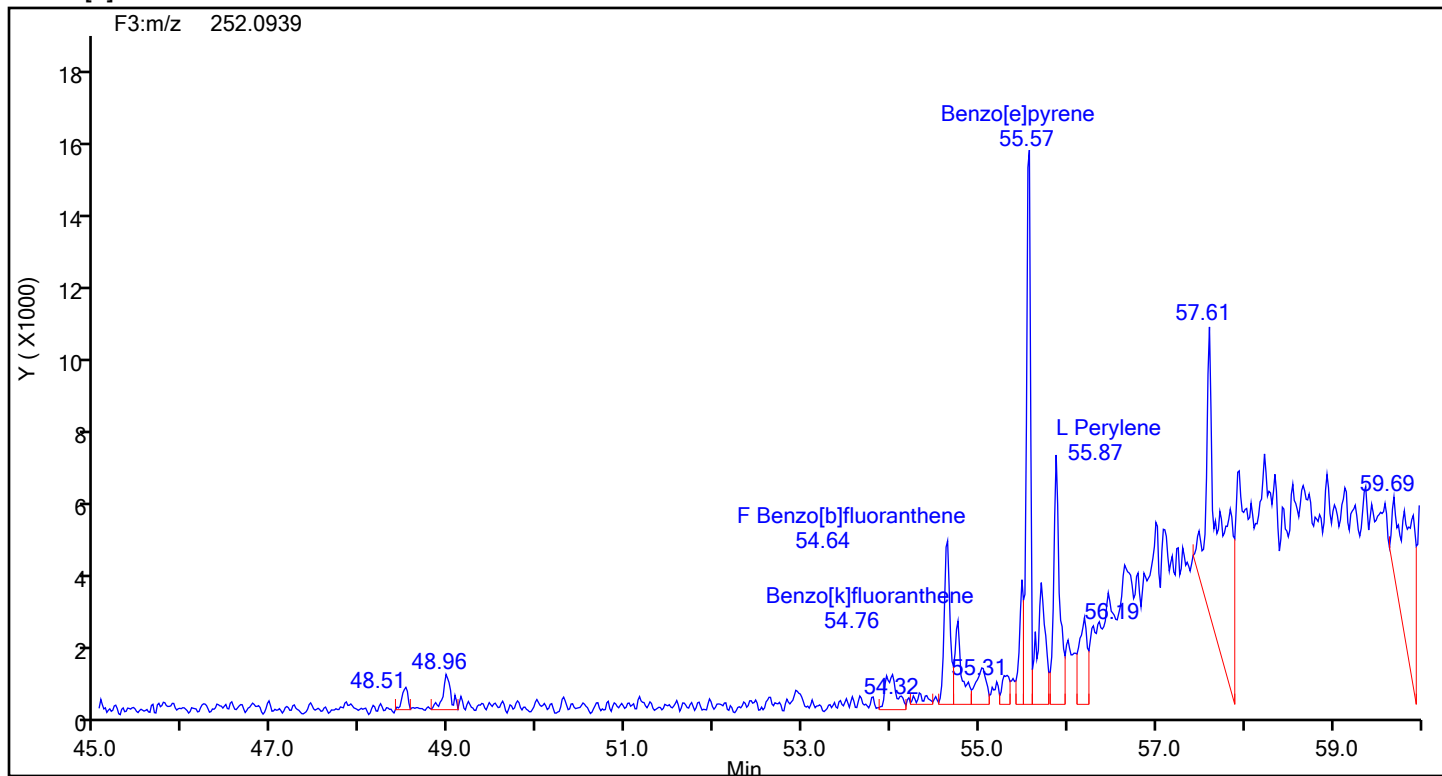
Benzo[a]anthracene Standards



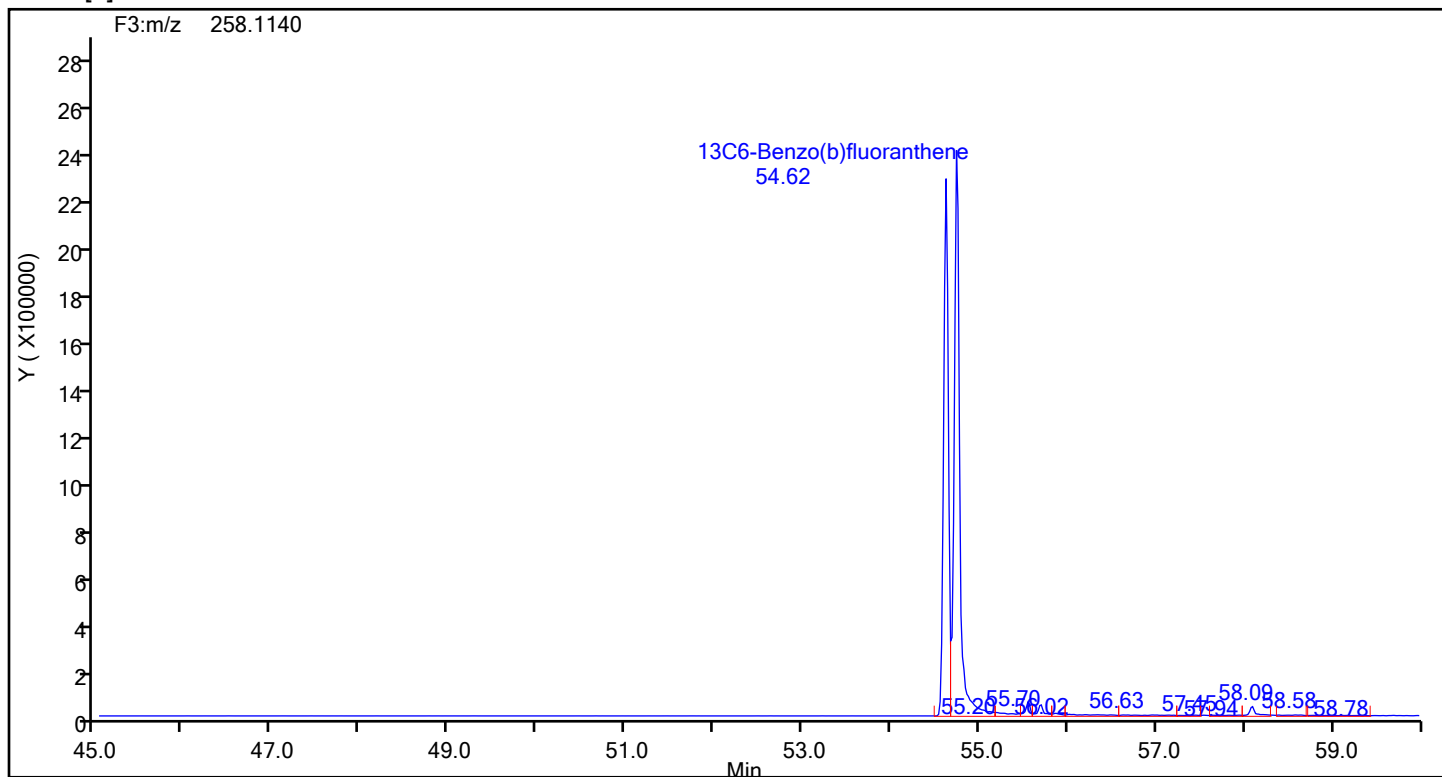
Eurofins Knoxville

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Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 88048 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-14-d.d

Injection Date: 25-Jun-2024 06:06:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED

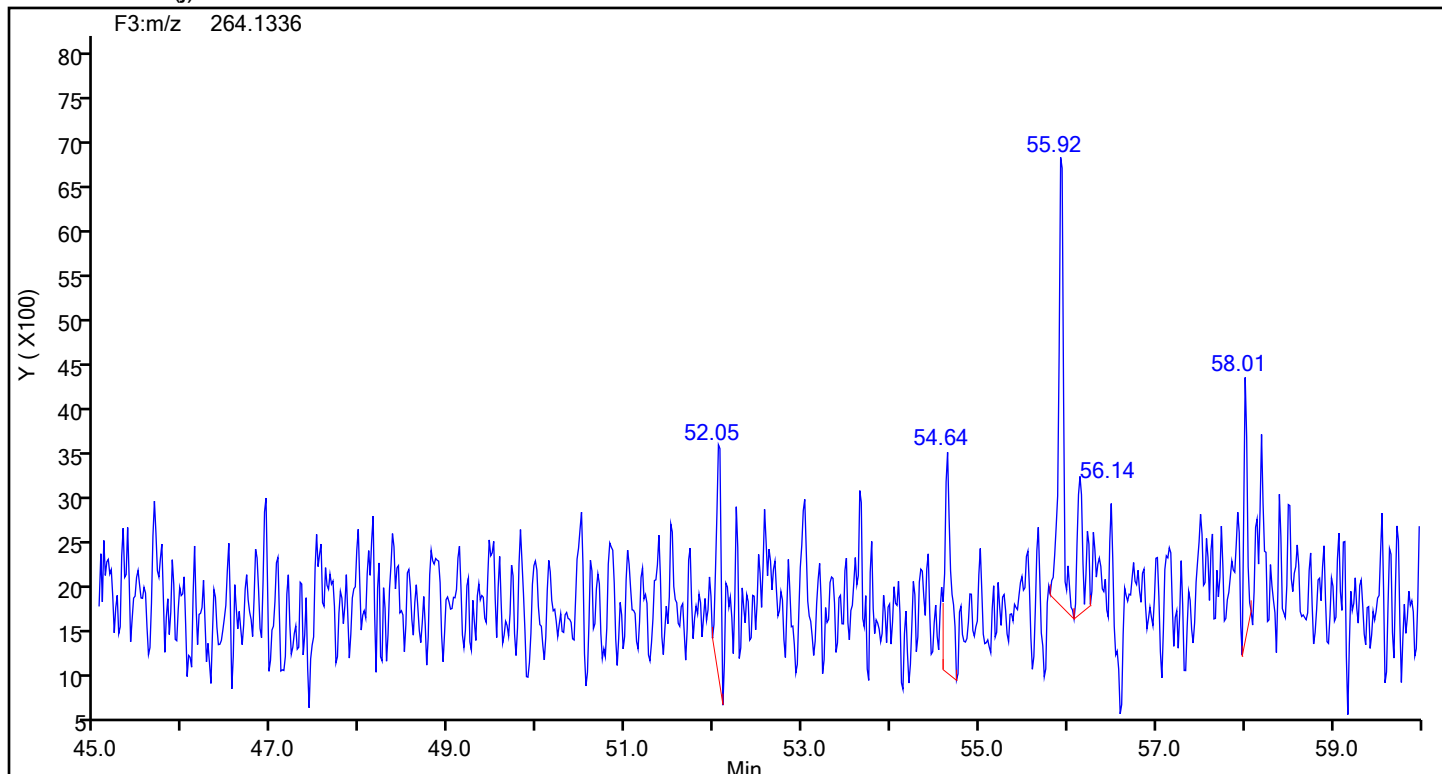
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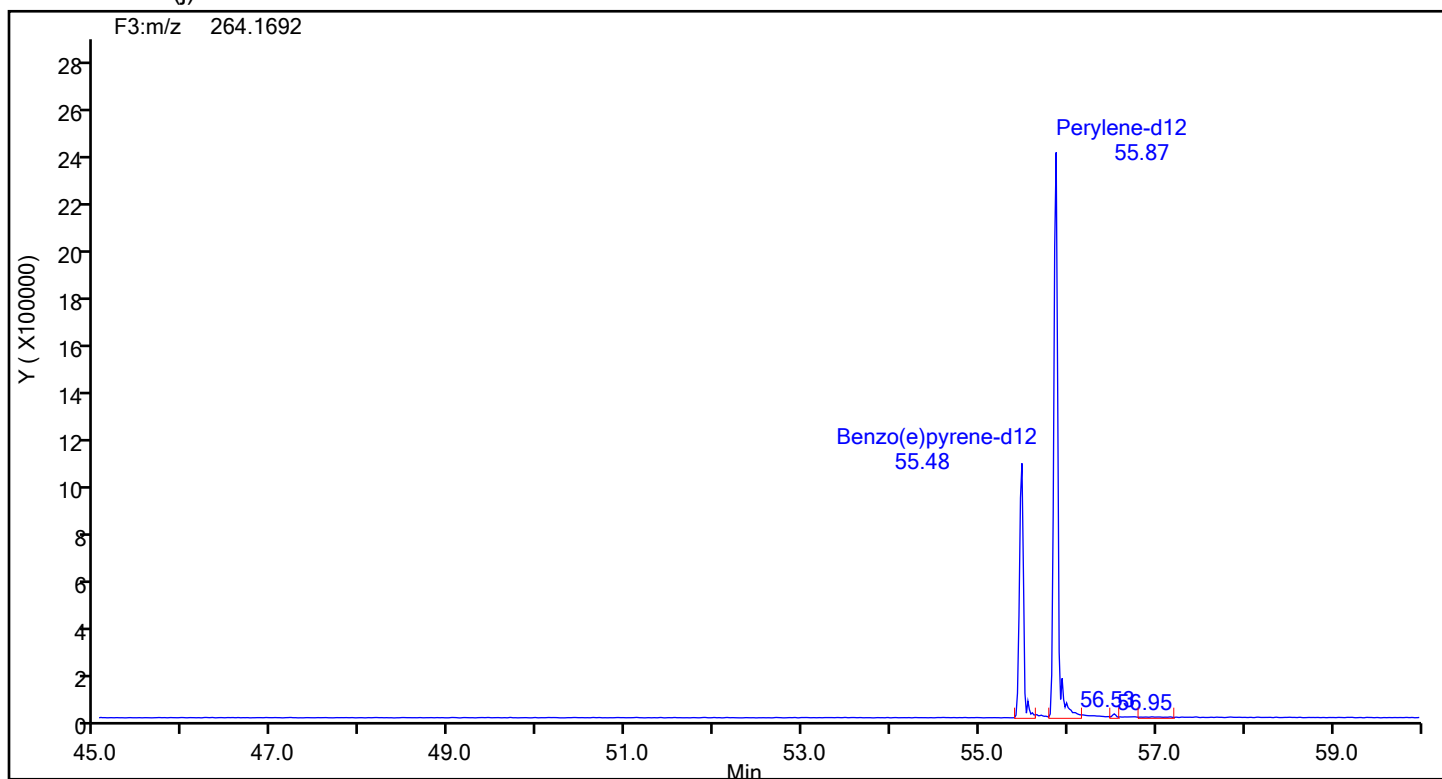
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



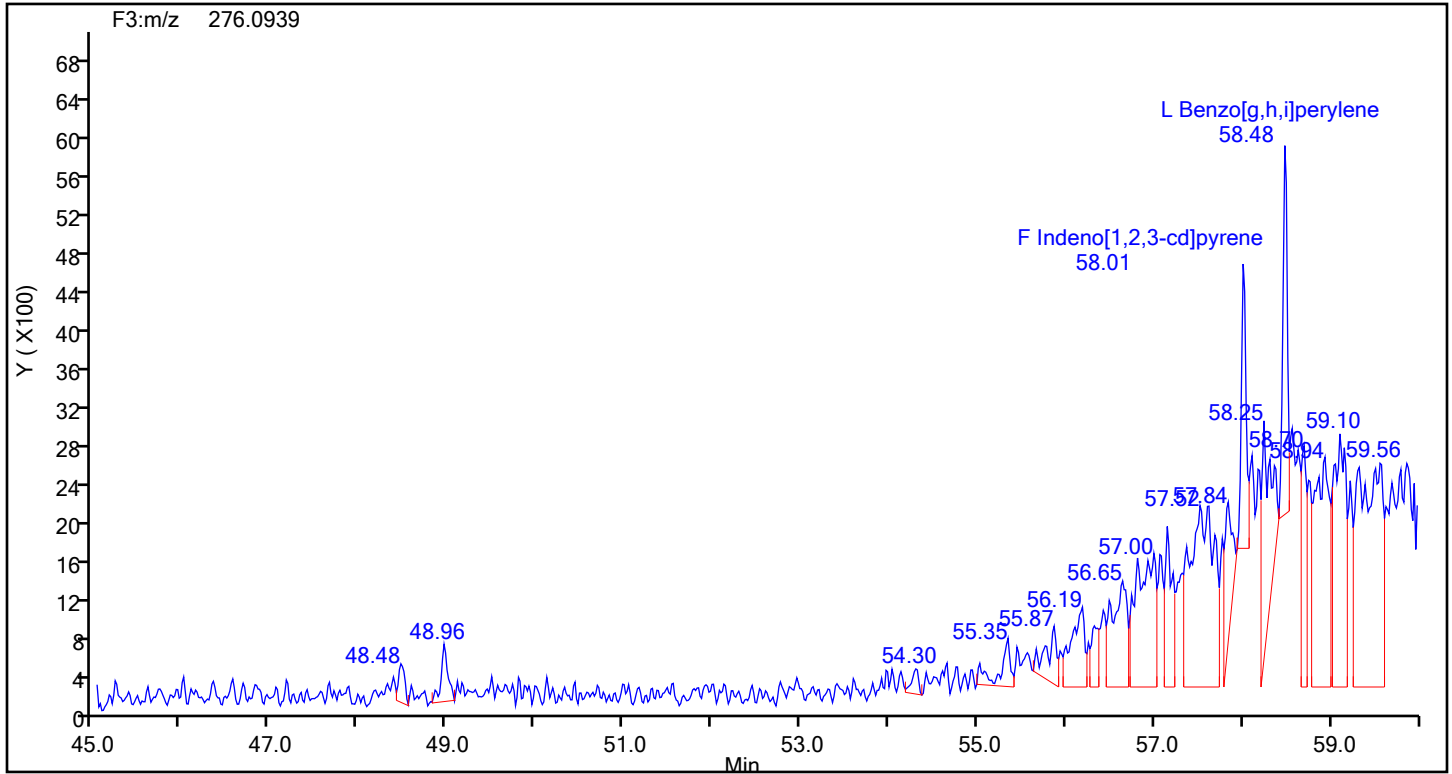
13C12-Benzo(j)fluoranthene Standards



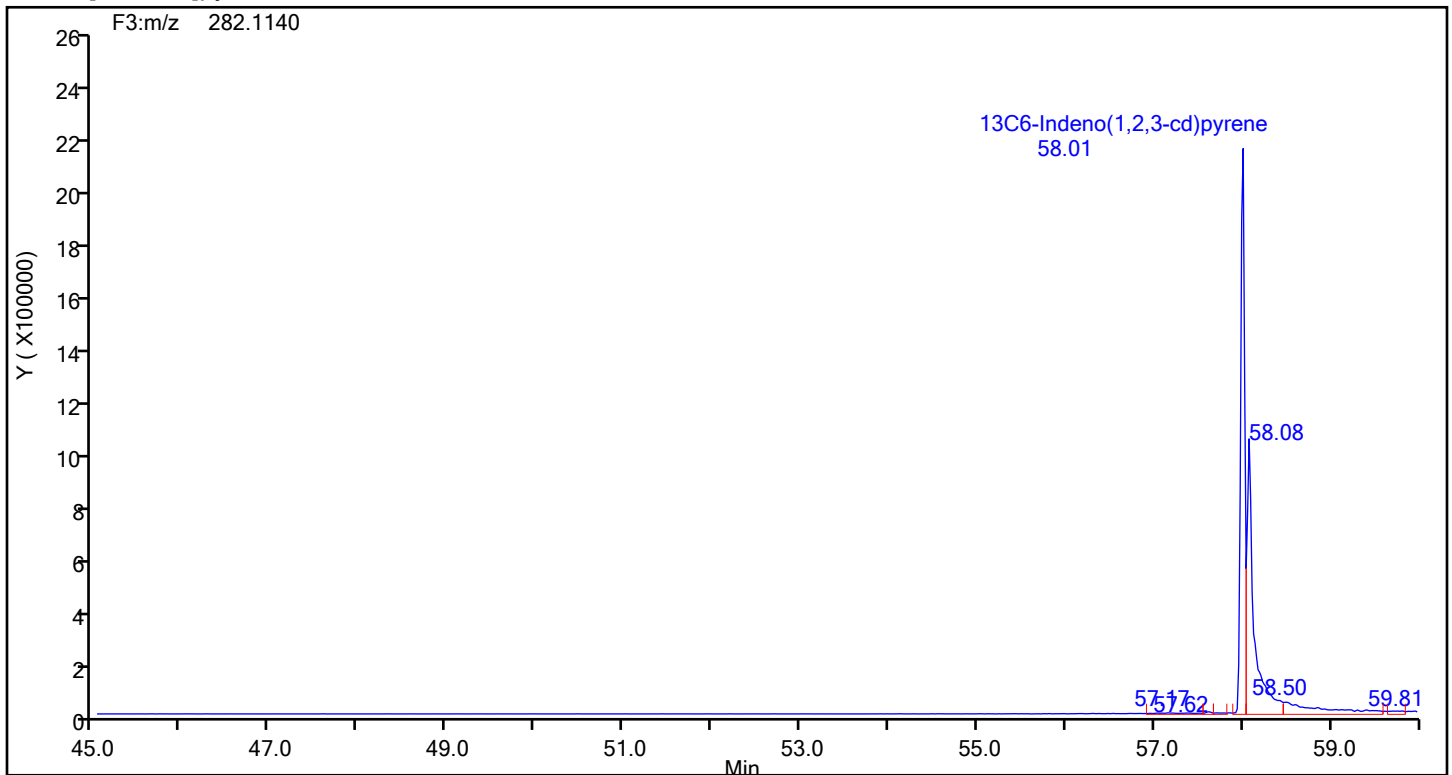
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
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Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 88048 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

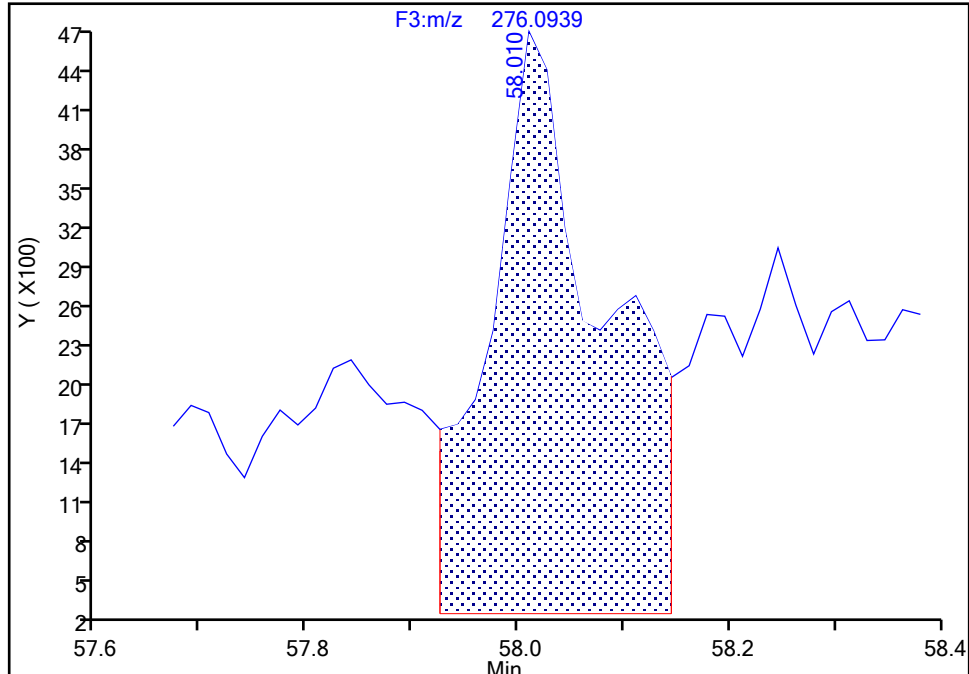
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Lims ID: 140-36689-A-14-D Lab Sample ID: 140-36689-14
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

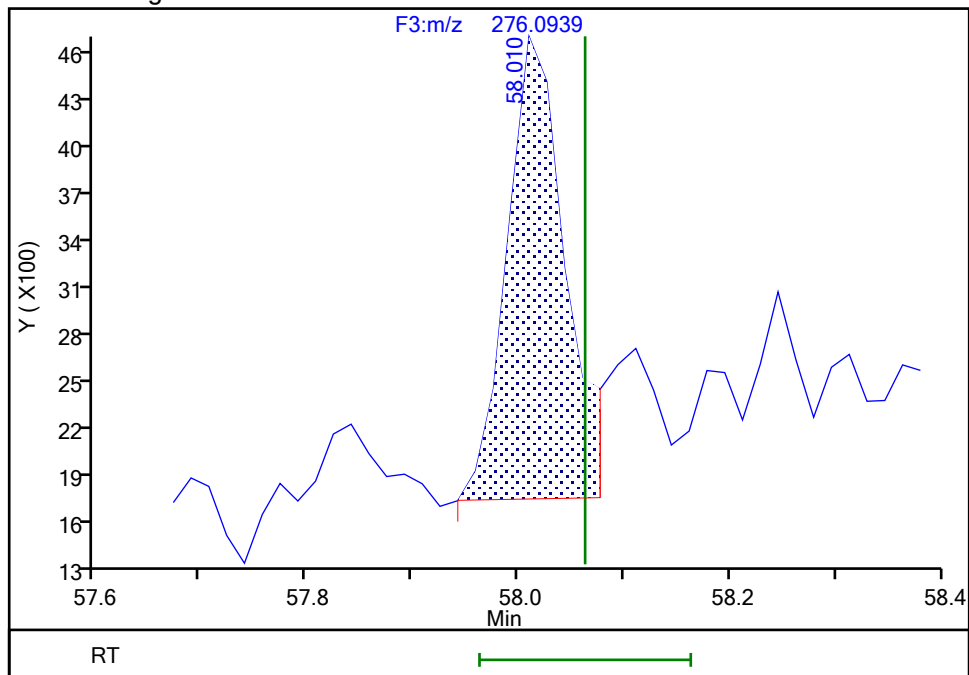
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Amount Units: pg/ul

Processing Integration Results



RT: 58.01
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Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:39:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

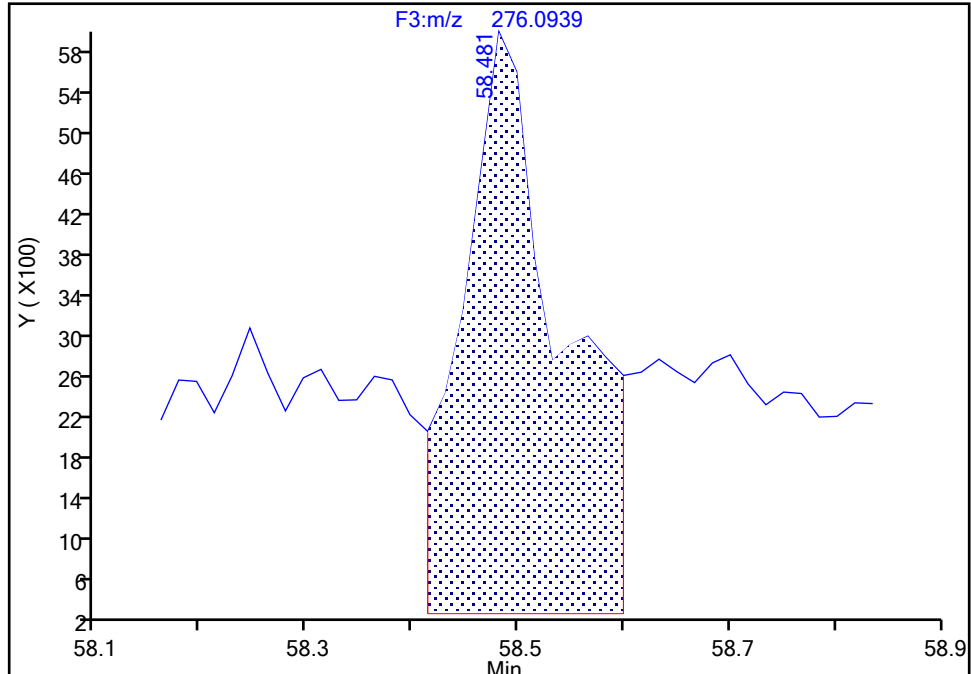
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Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
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Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

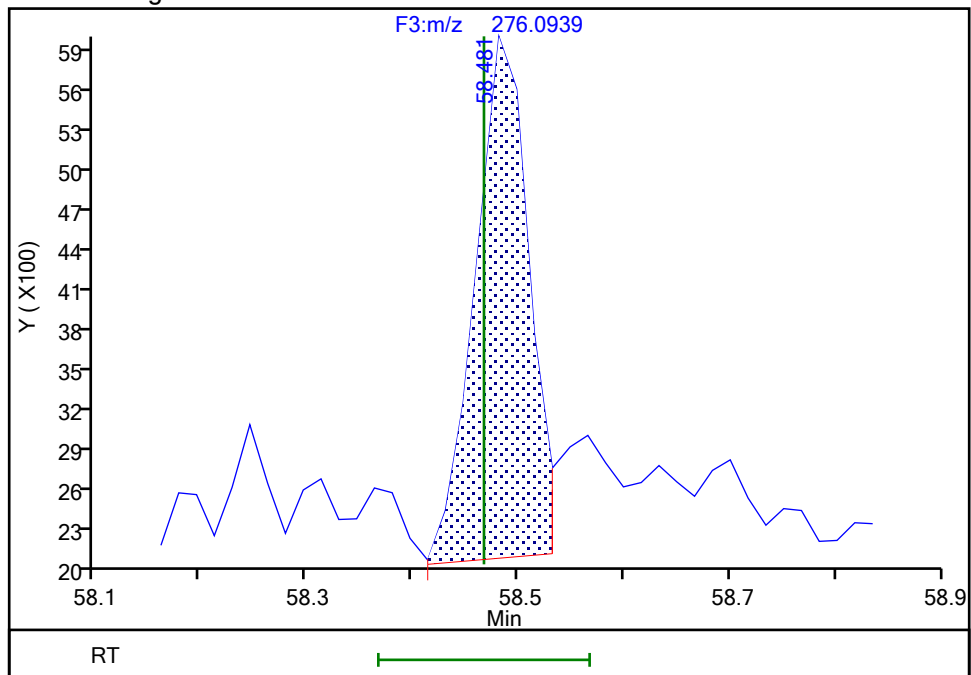
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Processing Integration Results



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Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:40:26 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

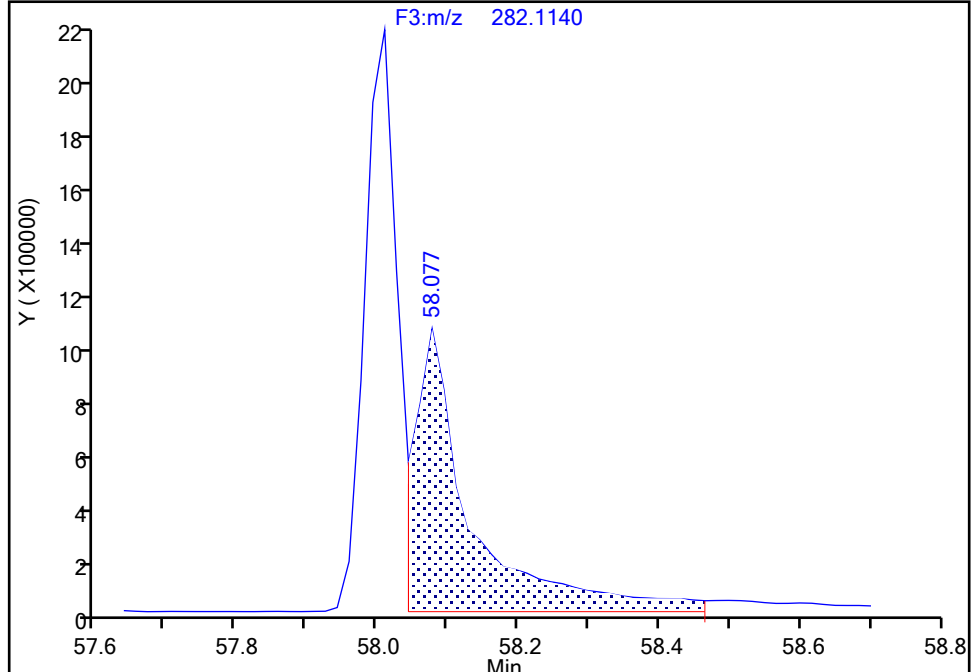
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Lims ID: 140-36689-A-14-D Lab Sample ID: 140-36689-14
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

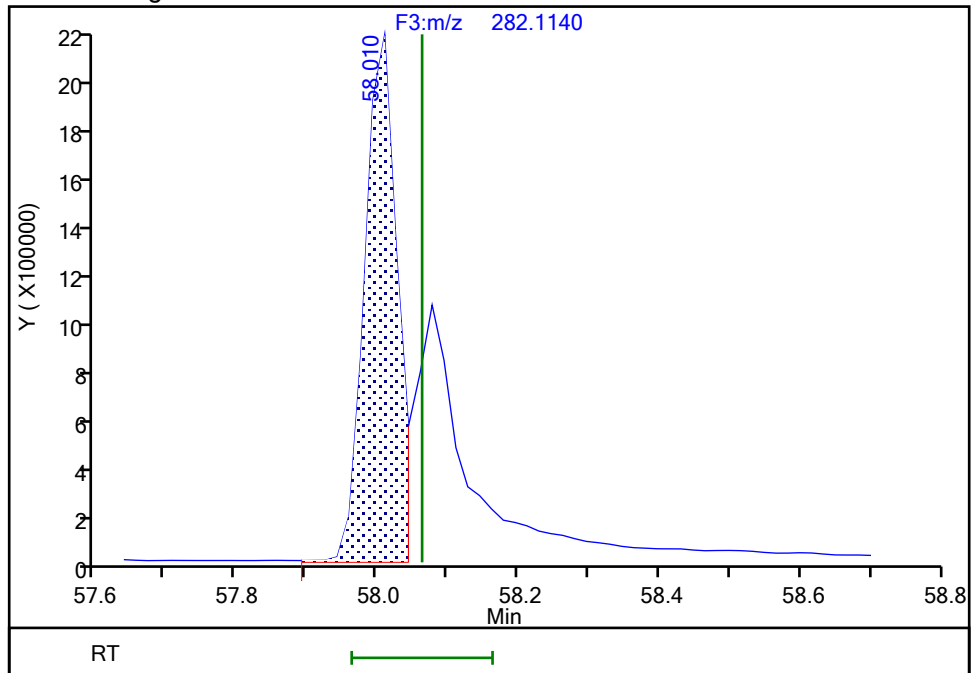
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Processing Integration Results



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Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:39:52 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

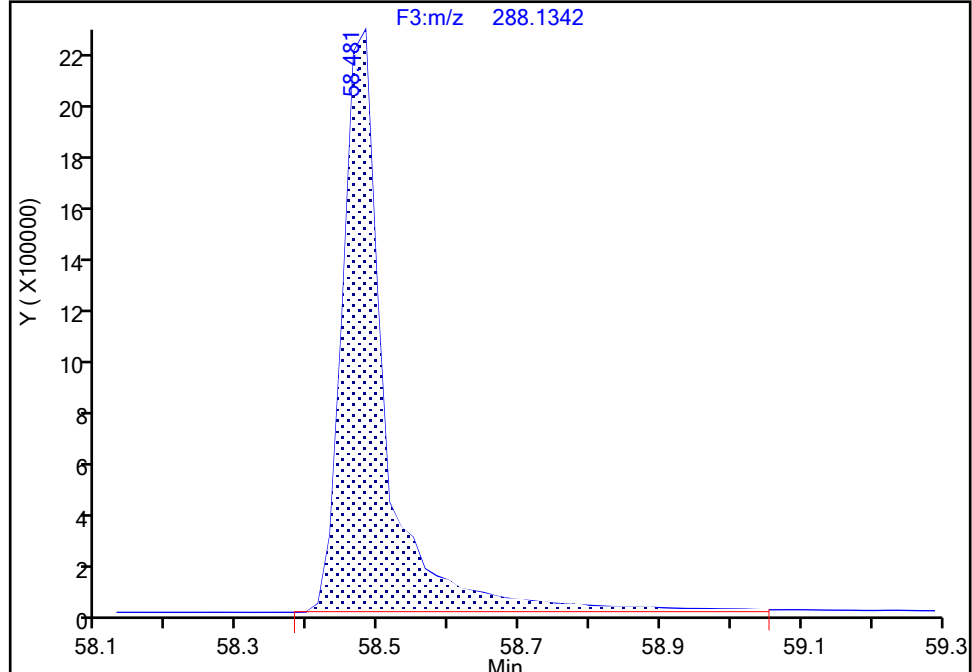
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Lims ID: 140-36689-A-14-D Lab Sample ID: 140-36689-14
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

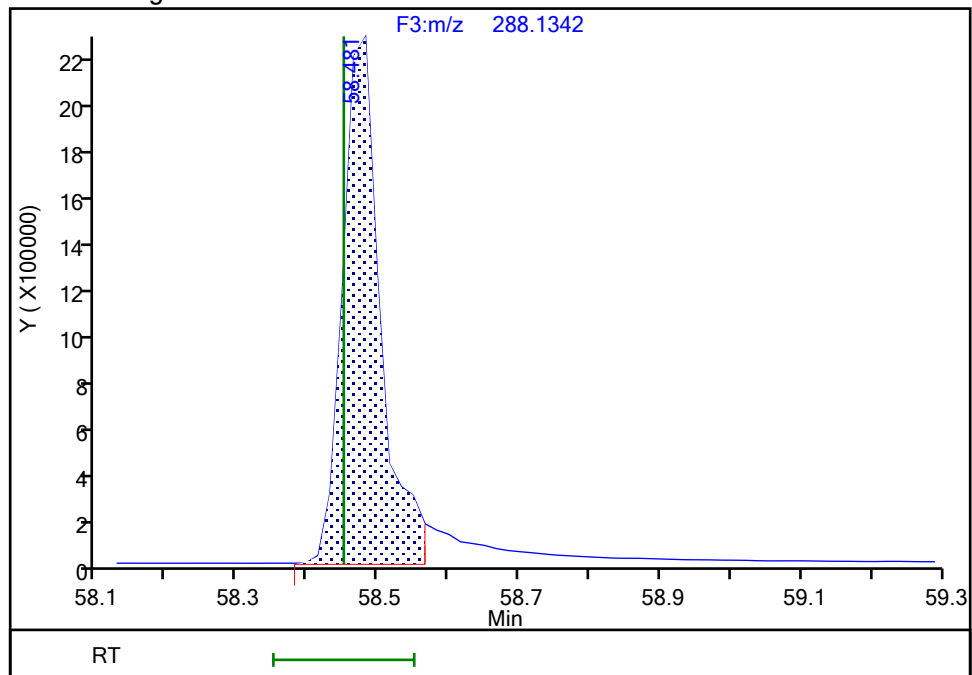
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Processing Integration Results



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Area: 8489642
Amount: 94.817668
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:40:12 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-14-d.d

Injection Date: 25-Jun-2024 06:06:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED

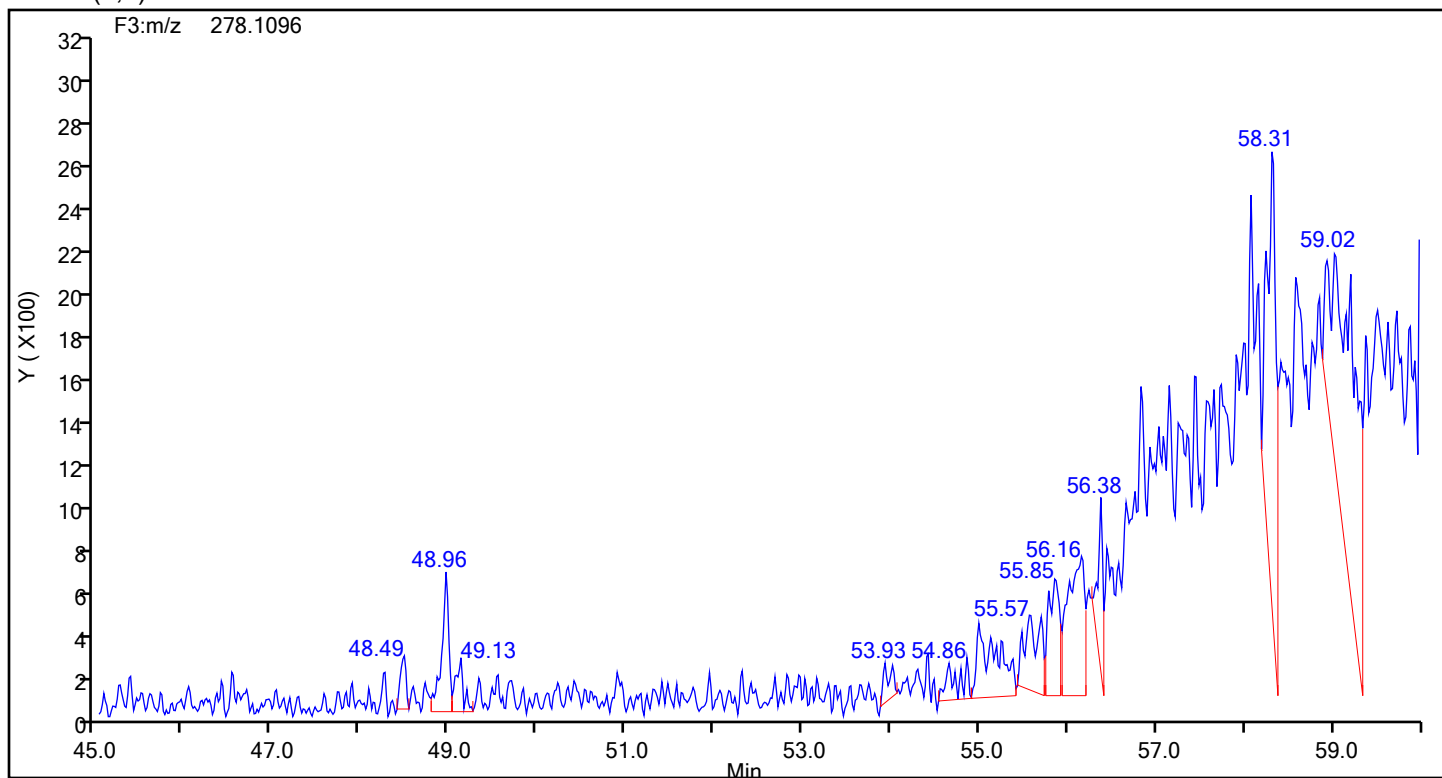
Worklist#: 88048

Sample Line#: 10

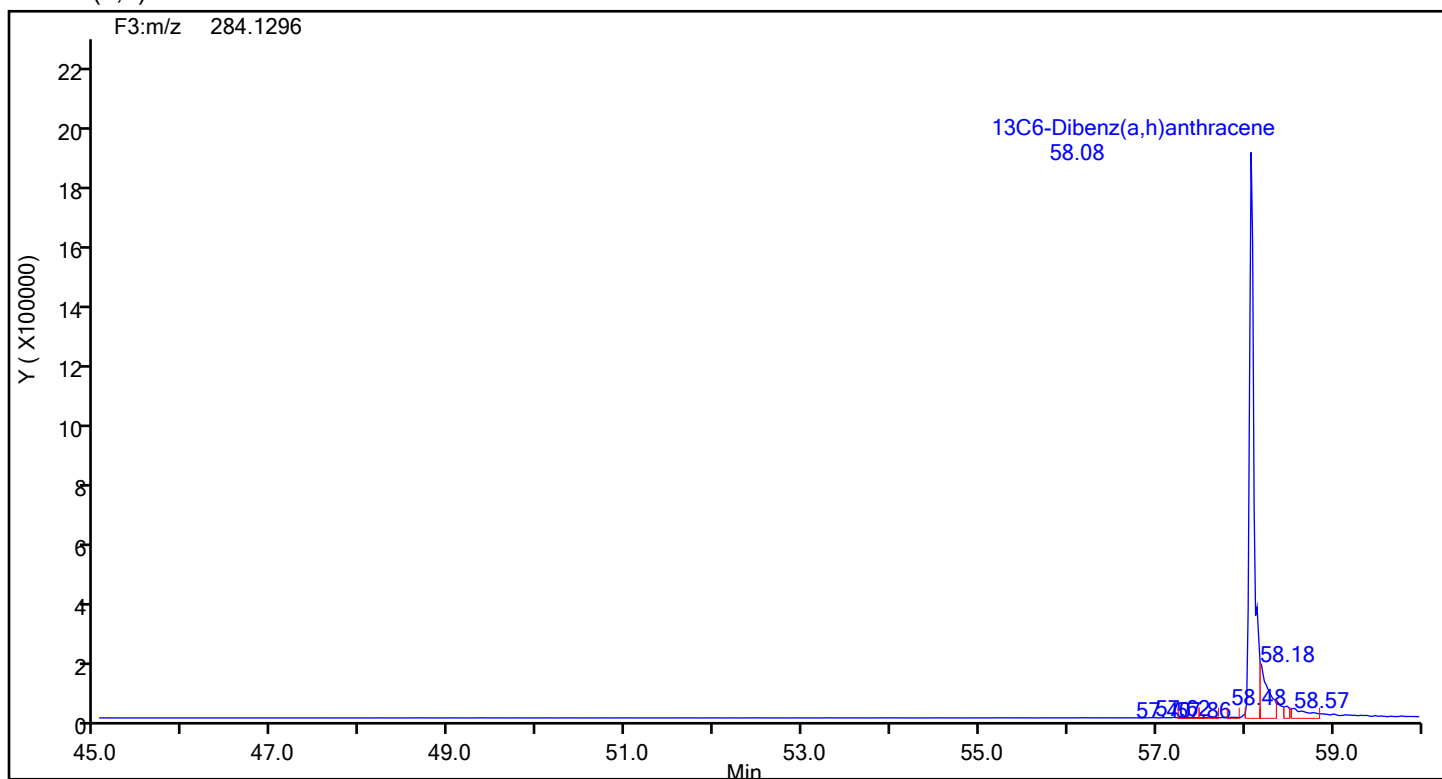
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

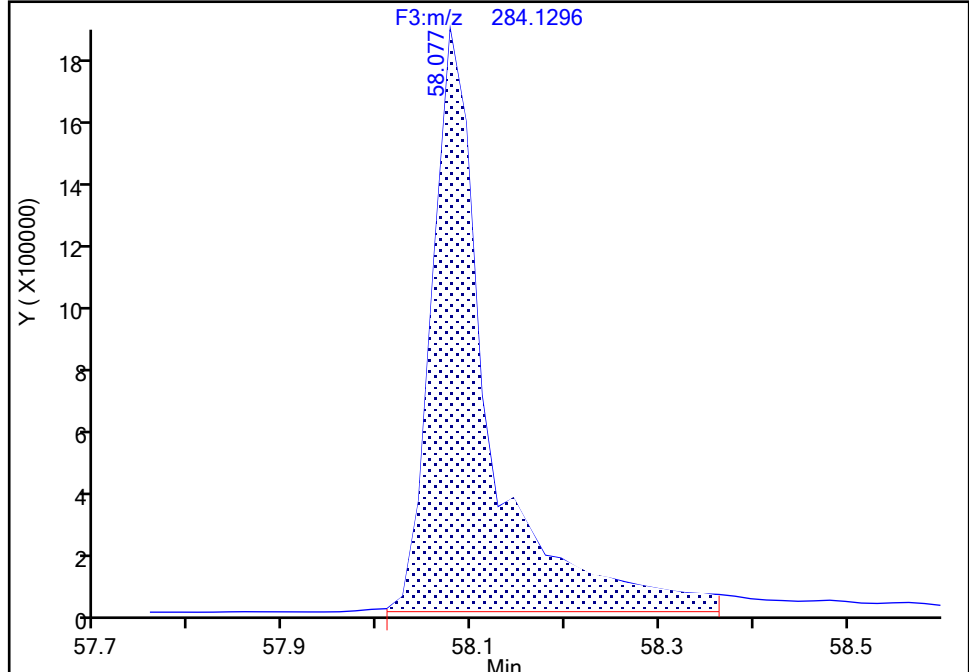
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\140-36689-a-14-d.d
Injection Date: 25-Jun-2024 06:06:00 Instrument ID: D3PAH
Lims ID: 140-36689-A-14-D Lab Sample ID: 140-36689-14
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: ST03360

Signal: 1

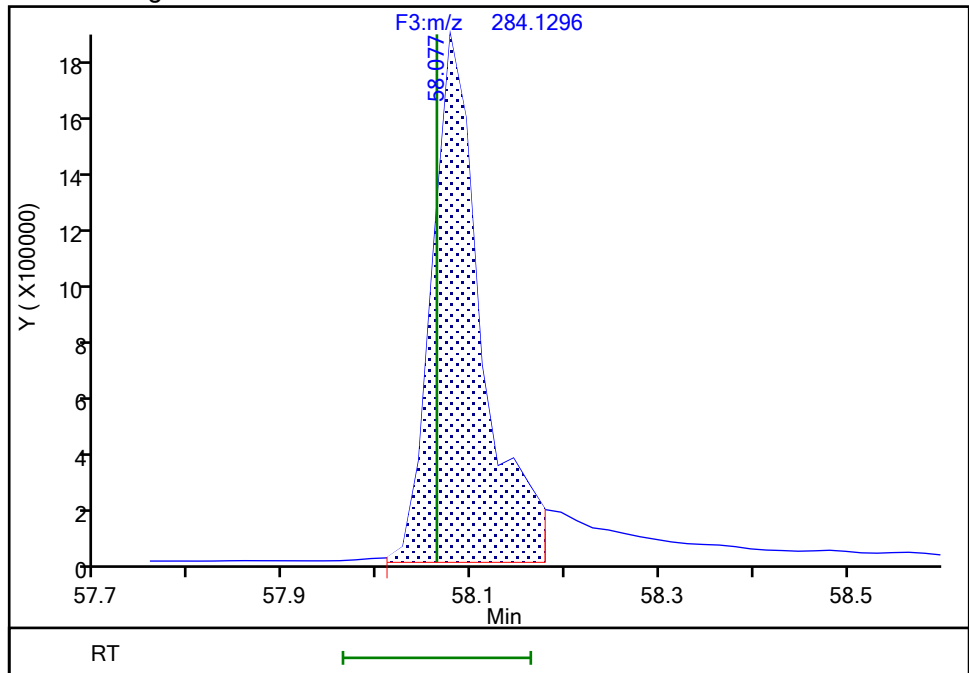
RT: 58.08
Area: 8072729
Amount: 108.9243
Amount Units: pg/ul

Processing Integration Results



RT: 58.08
Area: 7027348
Amount: 94.819086
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 11:40:06 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

FORM VI
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87843
SDG No.: _____
Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87843/1	d3240619ic1.d
Level 2	IC 140-87843/2	d3240619ic2.d
Level 3	IC 140-87843/3	d3240619ic3.d
Level 4	IC 140-87843/4	d3240619ic4.d
Level 5	IC 140-87843/5	d3240619ic5.d
Level 6	IC 140-87843/6	d3240619ic6.d
Level 7	IC 140-87843/7	d3240619ic7.d
Level 8	IC 140-87843/8	d3240619ic8.d
Level 9	IC 140-87843/9	d3240619ic9.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Naphthalene	+++++ 1.2740	+++++ 1.1977	+++++ 1.2441	+++++ 1.3662	1.3643	AveI D		1.289 3				5.8		10.0			
2-Methylnaphthalene	+++++ 1.2688	+++++ 1.1855	+++++ 1.2246	+++++ 1.3502	1.3638	AveI D		1.278 6				6.1		10.0			
Acenaphthylene	2.6784 2.2429	2.3828 2.2569	2.2653 2.3046	2.2666 2.5987	2.2990	AveI D		2.366 1				6.8		10.0			
Acenaphthene	+++++ 1.2653	+++++ 1.1998	+++++ 1.1988	1.3821 1.2845	1.2877	AveI D		1.269 7				5.4		10.0			
Fluorene	+++++ 1.2315	+++++ 1.2055	+++++ 1.1992	1.3195 1.2909	1.2723	AveI D		1.253 2				3.9		10.0			
Phenanthrene	+++++ 1.0972	+++++ 1.0506	+++++ 1.0450	1.1979 1.1153	1.1206	AveI D		1.104 4				5.1		10.0			
Anthracene	+++++ 1.3426	1.5578 1.3143	1.3186 1.2821	1.3527 1.3891	1.3116	AveI D		1.358 6				6.4		10.0			
Fluoranthene	+++++ 1.1051	+++++ 1.0896	1.2143 1.1192	1.1513 1.2379	1.1420	AveI D		1.151 3				4.8		10.0			
Pyrene	+++++ 1.0283	+++++ 0.9988	1.1693 1.0231	1.0690 1.1151	1.0527	AveI D		1.065 2				5.6		10.0			
Benzo[a]anthracene	1.0378 0.9499	1.0605 0.9201	0.9423 0.9245	0.9658 1.0128	0.9510	AveI D		0.973 9				5.2		10.0			
Chrysene	+++++ 0.9465	+++++ 0.9264	1.1064 0.9360	0.9877 1.0045	0.9627	AveI D		0.981 5				6.3		10.0			
Benzo[b]fluoranthene	+++++ 1.0793	+++++ 1.0465	+++++ 1.0882	1.1713 1.2553	1.1089	AveI D		1.124 9				6.8		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87843
SDG No.: _____
Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.2472 1.0508	1.3438 1.0426	1.0689 1.0745	1.1243 1.1190	1.0725	AveI n		1.127 1				9.1		10.0			
Benzo[e]pyrene	++++ 0.9413	++++ 0.9383	1.0083 0.9695	1.0829 1.0972	0.9714	AveI n		1.001 3				6.5		10.0			
Benzo[a]pyrene	1.2413 1.0507	1.2097 1.0601	1.1008 1.0871	1.1041 1.0970	1.0663	AveI n		1.113 0				6.0		10.0			
Perylene	++++ 1.3430	1.6018 1.4021	1.4662 1.4991	1.3101 ++++	1.3924	AveI n		1.430 7				7.0		10.0			
Indeno[1,2,3-cd]pyrene	++++ 1.1372	1.2057 0.9694	1.0985 1.0491	1.0578 1.3169	1.1649	AveI n		1.124 9				9.5		10.0			
Dibenz(a,h)anthracene	1.3561 1.0868	1.2167 1.0261	1.1041 1.0857	1.1015 1.1719	1.0336	AveI n		1.131 4				9.2		10.0			
Benzo[g,h,i]perylene	1.5167 1.1661	1.4345 1.1407	1.2918 1.2066	1.2677 1.3356	1.1941	AveI n		1.283 8				9.9		10.0			
13C6-Naphthalene	3.5973 2.9472	3.4322 3.3920	3.4274 3.3947	3.3734 3.2062	3.6005	Ave		3.374 6				5.9		20.0			
13C6-2-Methylnaphthalene	1.6583 1.5528	1.6409 1.6170	1.5405 1.6352	1.5807 1.5809	1.6213	Ave		1.603 1				2.6		20.0			
13C6-Acenaphthylene	1.6044 1.6538	1.6081 1.6587	1.6082 1.7178	1.6578 1.7056	1.6537	Ave		1.652 0				2.5		20.0			
13C6-Acenaphthene	0.9572 0.9760	0.9381 0.9858	0.9763 1.0256	0.9788 1.0118	0.9629	Ave		0.979 2				2.7		20.0			
13C6-Fluorene	0.8310 0.8771	0.8561 0.9159	0.8654 0.9652	0.8922 0.9362	0.8695	Ave		0.889 8				4.7		20.0			
13C6-Phenanthrene	0.5246 0.5425	0.5288 0.6157	0.5428 0.5975	0.5717 0.6555	0.5727	Ave		0.572 4				7.7		20.0			
13C6-Anthracene	0.4234 0.4320	0.4124 0.4654	0.4314 0.4797	0.4639 0.5202	0.4426	Ave		0.452 3				7.4		20.0			
13C6-Fluoranthrene	1.1421 1.1826	1.1184 1.2233	1.1546 1.2863	1.1716 1.3210	1.1945	Ave		1.199 4				5.6		20.0			
13C3-Pyrene	1.2796 1.3316	1.2672 1.3725	1.2929 1.4321	1.3132 1.5463	1.3256	Ave		1.351 2				6.6		20.0			
13C6-Benzo(a)anthracene	1.5027 1.4059	1.5257 1.4631	1.5230 1.5491	1.5373 1.7000	1.4635	Ave		1.518 9				5.4		20.0			
13C6-Chrysene	1.5556 1.5154	1.6290 1.6008	1.5920 1.6940	1.6297 1.8610	1.5809	Ave		1.628 7				6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87843

SDG No.: _____

Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
13C6-Benzo(b)fluoranthene	1.3920 1.3858	1.3914 1.4856	1.3818 1.5115	1.4420 1.7208	1.4477	Ave		1.462 1				7.4		20.0			
13C6-Benzo(k)fluoranthene	1.6120 1.6283	1.6254 1.7447	1.6680 1.8711	1.6736 2.2366	1.6964	Ave		1.750 7				11.4		20.0			
13C4-Benzo(e)pyrene	1.5550 1.5552	1.5654 1.5995	1.5939 1.6980	1.6231 1.9720	1.5695	Ave		1.636 8				8.2		20.0			
13C4-Benzo(a)pyrene	1.4368 1.4481	1.4655 1.5126	1.4658 1.6321	1.5002 2.0077	1.4884	Ave		1.550 8				11.7		20.0			
Perylene-d12	1.1189 1.1713	1.1558 1.2079	1.1423 1.2224	1.2123 1.3085	1.1859	Ave		1.191 7				4.7		20.0			
13C6-Indeno(1,2,3-cd)pyrene	0.9703 0.8971	1.0776 1.0949	0.9397 1.0881	1.0292 1.1905	0.9092	Ave		1.021 8				9.7		20.0			
13C6-Dibenz(a,h)anthracene	1.0039 0.9605	1.0767 1.0536	0.9694 1.1147	0.9954 1.3084	1.0148	Ave		1.055 3				10.2		20.0			
13C12-Benzo(ghi)perylene	1.1709 1.2067	1.2991 1.3022	1.1834 1.3399	1.2085 1.5312	1.2320	Ave		1.274 9				8.8		20.0			
Anthracene-d10	0.4088 0.4160	0.4109 0.4400	0.4037 0.4414	0.4246 0.4596	0.4264	Ave		0.425 7				4.3					
13C6-Benzo(c)fluorene	0.5442 0.5354	0.5341 0.5157	0.5189 0.5105	0.4536 0.5004	0.5094	Ave		0.513 6				5.2					
13C12-Benzo(j)fluoranthene	1.2934 1.2806	1.3065 1.3672	1.2863 1.4328	1.2939 1.6483	1.2936	Ave		1.355 8				8.9					

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87843

SDG No.: _____

Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87843/1	d3240619ic1.d
Level 2	IC 140-87843/2	d3240619ic2.d
Level 3	IC 140-87843/3	d3240619ic3.d
Level 4	IC 140-87843/4	d3240619ic4.d
Level 5	IC 140-87843/5	d3240619ic5.d
Level 6	IC 140-87843/6	d3240619ic6.d
Level 7	IC 140-87843/7	d3240619ic7.d
Level 8	IC 140-87843/8	d3240619ic8.d
Level 9	IC 140-87843/9	d3240619ic9.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Naphthalene		AveID	++++ 11077976	++++ 29145441	++++ 66534766	++++ 201858027	7473056	++++ 80.0	++++ 200	++++ 400	++++ 1000	50.0
2-Methylnaphthalene		AveID	++++ 5812992	++++ 13752752	++++ 31544481	++++ 98360151	3363658	++++ 80.0	++++ 200	++++ 400	++++ 1000	50.0
Acenaphthylene		AveID	70974 6459116	133174 15960871	269411 37234784	1541031 121166606	3367785	1.00 80.0	2.00 200	4.00 400	20.0 1000	50.0
Acenaphthene		AveID	++++ 3643698	++++ 8485152	++++ 19367968	939646 59890100	1886298	++++ 80.0	++++ 200	++++ 400	20.0 1000	50.0
Fluorene		AveID	++++ 3186786	++++ 7921341	++++ 18232964	817773 55690348	1683007	++++ 80.0	++++ 200	++++ 400	20.0 1000	50.0
Phenanthrene		AveID	++++ 3681835	++++ 10408886	++++ 23294554	1073406 72771385	2244288	++++ 80.0	++++ 200	++++ 400	20.0 1000	50.0
Anthracene		AveID	++++ 3587223	91204 9842331	160718 22947314	983685 71918449	2030307	++++ 80.0	2.00 200	4.00 400	20.0 1000	50.0
Fluoranthene		AveID	++++ 8083123	++++ 21447849	396095 53709863	2114329 162763939	4770414	++++ 80.0	++++ 200	4.00 400	20.0 1000	50.0
Pyrene		AveID	++++ 8469657	++++ 22057676	427111 54662936	2200520 171639473	4880169	++++ 80.0	++++ 200	4.00 400	20.0 1000	50.0
Benzo[a]anthracene		AveID	78927 6207787	162720 15614632	282836 39547814	1488098 124165534	3701131	1.00 80.0	2.00 200	4.00 400	20.0 1000	50.0
Chrysene		AveID	++++ 6667789	++++ 17201644	347139 43785996	1613361 134817195	4046826	++++ 80.0	++++ 200	4.00 400	20.0 1000	50.0
Benzo[b]fluoranthene		AveID	++++ 6952921	++++ 18032275	++++ 45422181	1692873 155779264	4268765	++++ 80.0	++++ 200	++++ 400	20.0 1000	50.0
Benzo[k]fluoranthene		AveID	101746 7954022	219658 21097665	351417 55519685	1885945 180500584	4838139	1.00 80.0	2.00 200	4.00 400	20.0 1000	50.0
Benzo[e]pyrene		AveID	++++ 6804856	++++ 17407219	316746 45463447	1761621 156044174	4054021	++++ 80.0	++++ 200	4.00 400	20.0 1000	50.0
Benzo[a]pyrene		AveID	90261	178284	318019	1660260	4220425	1.00	2.00	4.00	20.0	50.0

FORM VI
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

Analy Batch No.: 87843

SDG No.: _____

Instrument ID: D3PAH

GC Column: Rxi-5SilMS ID: 0.25(mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34

Calibration End Date: 06/20/2024 01:09

Calibration ID: 5149

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
			7072659	18599410	48994654	158831908		80.0	200	400	1000	
Perylene		AveID	+++++	186178	330090	1591843	4390716	+++++	2.00	4.00	20.0	50.0
			7312149	19642615	50605936	+++++		80.0	200	400	+++++	
Indeno[1,2,3-cd]pyrene		AveID	+++++	130664	203445	1091218	2816296	+++++	2.00	4.00	20.0	50.0
			4742305	12310533	31522628	113067905		80.0	200	400	1000	
Dibenz(a,h)anthracene		AveID	68899	131743	210948	1098846	2789079	1.00	2.00	4.00	20.0	50.0
			4852505	12538607	33420949	110582572		80.0	200	400	1000	
Benzo[g,h,i]perylene		AveID	89871	187407	301308	1535539	3911770	1.00	2.00	4.00	20.0	50.0
			6540833	17229589	44647127	147488032		80.0	200	400	1000	
13C6-Naphthalene	ANT	Ave	9958539	10224350	10437430	11716317	10955076	100	100	100	100	100
			10869499	12167731	13369772	14774767		100	100	100	100	
13C6-2-Methylnaphthalene	ANT	Ave	4590652	4888063	4691404	5490022	4932932	100	100	100	100	100
			5726757	5800321	6439882	7285064		100	100	100	100	
13C6-Acenaphthylene	ANT	Ave	4441490	4790245	4897592	5757839	5031692	100	100	100	100	100
			6099396	5949897	6765535	7859583		100	100	100	100	
13C6-Acenaphthene	ANT	Ave	2649873	2794458	2973262	3399456	2929756	100	100	100	100	100
			3599722	3536065	4039150	4662594		100	100	100	100	
13C6-Fluorene	ANT	Ave	2300375	2550369	2635457	3098767	2645576	100	100	100	100	100
			3234715	3285389	3801144	4314043		100	100	100	100	
13C6-Phenanthrene	PYR	Ave	3481612	3753474	3834191	4480403	4005566	100	100	100	100	100
			4194540	4953590	5572957	6524734		100	100	100	100	
13C6-Anthracene	PYR	Ave	2810000	2927417	3047129	3635963	3095933	100	100	100	100	100
			3339808	3744430	4474470	5177443		100	100	100	100	
13C6-Fluoranthrene	PYR	Ave	7580251	7938309	8154780	9182667	8354538	100	100	100	100	100
			9143194	9842103	11997910	13148739		100	100	100	100	
13C3-Pyrene	PYR	Ave	8492459	8994056	9131545	10292274	9271369	100	100	100	100	100
			10295818	11042272	13356986	15391681		100	100	100	100	
13C6-Benzo(a)anthracene	BePdl 2	Ave	7605148	7671524	7504068	7704055	7783391	100	100	100	100	100
			8168778	8485215	10694535	12260100		100	100	100	100	
13C6-Chrysene	BePdl 2	Ave	7872763	8190879	7844204	8166961	8407429	100	100	100	100	100
			8805464	9283915	11695295	13421719		100	100	100	100	
13C6-Benzo(b)fluoranthene	BePdl 2	Ave	7044571	6995957	6808556	7226370	7699352	100	100	100	100	100
			8052237	8615715	10435051	12410189		100	100	100	100	
13C6-Benzo(k)fluoranthene	BePdl 2	Ave	8157925	8172987	8218810	8387092	9021801	100	100	100	100	100
			9461461	10118186	12917530	16130058		100	100	100	100	
13C4-Benzo(e)pyrene	BePdl 2	Ave	7869617	7870944	7853527	8133857	8346864	100	100	100	100	100
			9036295	9276322	11723054	14222064		100	100	100	100	

FORM VI
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87843

SDG No.: _____

Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
13C4-Benzo(a)pyrene	BePd1 2	Ave	7271246	7368833	7222186	7518310	7915726	100	100	100	100	100
			8413993	8772202	11267474	14479273		100	100	100	100	
Perylene-d12	BePd1 2	Ave	5662636	5811383	5628212	6075448	6306802	100	100	100	100	100
			6805855	7004851	8439141	9436646		100	100	100	100	
13C6-Indeno(1,2,3-cd)pyrene	BePd1 2	Ave	4910654	5418391	4630053	5157889	4835402	100	100	100	100	100
			5212706	6349503	7511958	8585756		100	100	100	100	
13C6-Dibenz(a,h)anthracene	BePd1 2	Ave	5080699	5414078	4776504	4988169	5397040	100	100	100	100	100
			5580937	6110020	7695778	9436274		100	100	100	100	
13C12-Benzo(ghi)perylene	BePd1 2	Ave	5925593	6532018	5830946	6056294	6552075	100	100	100	100	100
			7011632	7551974	9250572	11042946		100	100	100	100	
Anthracene-d10	PYR	Ave	2713232	2916395	2851175	3328133	2982348	100	100	100	100	100
			3216411	3540252	4116582	4574361		100	100	100	100	
13C6-Benzo(c)fluorene	PYR	Ave	3611915	3790719	3665129	3555493	3562609	100	100	100	100	100
			4139575	4148931	4761886	4981238		100	100	100	100	
13C12-Benzo(j)fluoranthene	BePd1 2	Ave	6545559	6569551	6337903	6484034	6879595	100	100	100	100	100
			7440700	7928880	9891565	11887745		100	100	100	100	

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution

Resolution Check Report (DFS SN: 3439)

Date: 19 Jun 2024 16:18
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

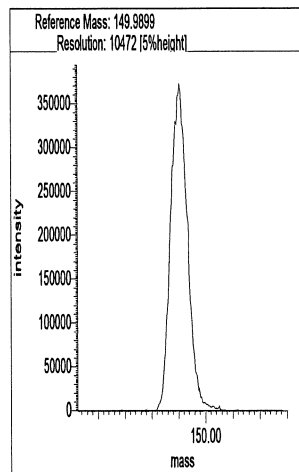
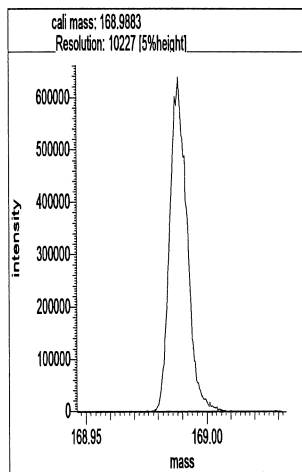
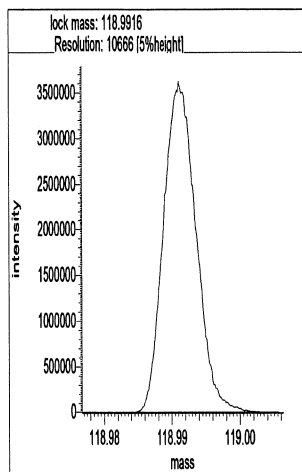
- d3240619 r16

Segment 1

Lock mass 118.9916 [m/z] Resolution: 10666 [5%height]

Cali. mass 168.9883 [m/z] Resolution: 10227 [5%height]

Ref. mass 149.9899 [m/z] Resolution: 10472 [5%height]

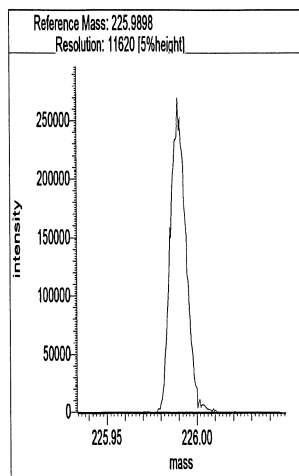
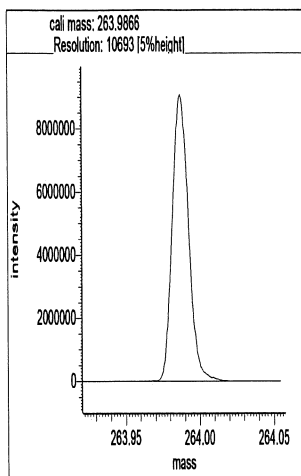
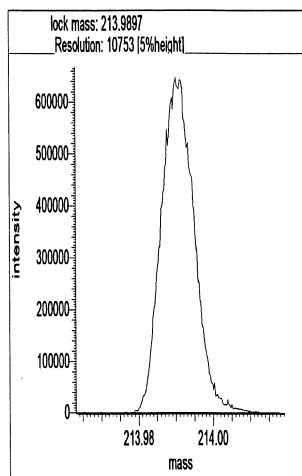


Segment 2

Lock mass 213.9897 [m/z] Resolution: 10753 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 10693 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 11620 [5%height]

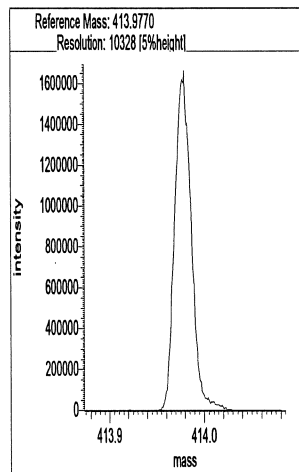
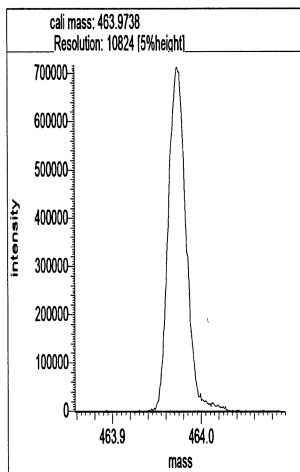
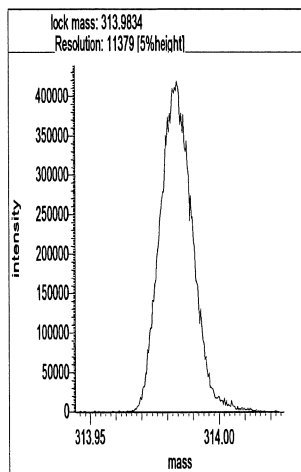


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11379 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 10824 [5%height]

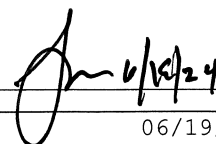
Ref. mass 413.9770 [m/z] Resolution: 10328 [5%height]



Reports

16:26:06: Peak matching procedure started
16:26:07:
16:26:07: Reference mass: 263.98656
16:26:08: Sample mass: 414.0
16:26:08:
16:26:09: Finding reference mass
16:26:10: Finding sample mass
16:26:10:
16:26:16: [1] 413.9781 amu, mean: 413.9781 SD: 0.36 mmu or: 0.88 ppm
16:26:19: [2] 413.9776 amu, mean: 413.9778 SD: 0.30 mmu or: 0.74 ppm
16:26:22: [3] 413.9776 amu, mean: 413.9777 SD: 0.34 mmu or: 0.83 ppm
16:26:25: [4] 413.9773 amu, mean: 413.9776 SD: 0.34 mmu or: 0.83 ppm
16:26:29: [5] 413.9772 amu, mean: 413.9775 SD: 0.43 mmu or: 1.04 ppm
16:26:32: [6] 413.9768 amu, mean: 413.9774 SD: 0.42 mmu or: 1.02 ppm
16:26:35: [7] 413.9770 amu, mean: 413.9774 SD: 0.39 mmu or: 0.95 ppm
16:26:38: [8] 413.9773 amu, mean: 413.9774 SD: 0.37 mmu or: 0.89 ppm
16:26:41: [9] 413.9774 amu, mean: 413.9774 SD: 0.38 mmu or: 0.91 ppm
16:26:44: [10] 413.9778 amu, mean: 413.9774 SD: 0.38 mmu or: 0.92 ppm
16:26:47: [11] 413.9778 amu, mean: 413.9775
16:26:48:
16:26:48: Stop requested. Please wait for procedure to finish.
16:26:48:
16:26:51:
16:26:51: Peakmatching stopped

Signature



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 19-Jun-2024 16:34:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-001
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:31 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:51:31

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	9958539		3.3746	106.6	106.6	0.007294	0.007294	107	
Naphthalene	11:33	1255702		1.2893	9.780	9.780	0.0236	0.0236	978	
D 13C6-2-Methylnaphthalene	13:51	4590652		1.6031	103.4	103.4	0.002417	0.002417	103	
2-Methylnaphthalene	13:52	512954		1.2786	8.739	8.739	0.0243	0.0243	874	
D 13C6-Acenaphthylene	16:44	4441490		1.6520	97.1	97.1	0.000761	0.000761	97.12	
Acenaphthylene	16:44	70974		2.3661	1.132	1.132	0.0240	0.0240	113	
* Acenaphthene-d10	17:19	2768301		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	2649873		0.9792	97.8	97.8	0.002139	0.002139	97.76	
Acenaphthene	17:27	149559		1.2697	4.445	4.445	0.0292	0.0292	445	
D 13C6-Fluorene	19:44	2300375		0.8898	93.4	93.4	0.001766	0.001766	93.38	
Fluorene	19:44	86461		1.2532	2.999	2.999	0.0396	0.0396	300	
D 13C6-Phenanthrene	25:08	3481612		0.5724	91.6	91.6	0.000997	0.000997	91.64	
Phenanthrene	25:08	126498		1.1044	3.290	3.290	0.0485	0.0485	329	
\$ Anthracin-d10	25:20	2713232		0.4257	96.0	96.0	0.000957	0.000957	96.03	
D 13C6-Anthracene	25:27	2810000		0.4523	93.6	93.6	0.001262	0.001262	93.60	
Anthracene	25:27	49456		1.3586	1.295	1.295	0.0498	0.0498	130	
D 13C6-Fluoranthrene	33:52	7580251		1.1994	95.2	95.2	0.0302	0.0302	95.23	
Fluoranthene	33:53	126601		1.1513	1.451	1.451	0.0173	0.0173	145	
* Pyrene-d10	35:26	6636938		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	8492459		1.3512	94.7	94.7	0.0178	0.0178	94.70	
Pyrene	35:35	136948		1.0652	1.514	1.514	0.0174	0.0174	151	
\$ 13C6-Benzo(c)fluorene	39:16	3611915		0.5136	106.0	106.0	0.005079	0.005079	106	
D 13C6-Benzo(a)anthracene	46:06	7605148		1.5189	98.9	98.9	0.0172	0.0172	98.93	
Benzo[a]anthracene	46:07	78927		0.9739	1.066	1.066	0.0161	0.0161	107	
D 13C6-Chrysene	46:22	7872763		1.6287	95.5	95.5	0.0160	0.0160	95.51	
Chrysene	46:23	121048		0.9815	1.567	1.567	0.0160	0.0160	157	
D 13C6-Benzo(b)fluoranthene	54:38	7044571		1.4621	95.2	95.2	0.001282	0.001282	95.21	
Benzo[b]fluoranthene	54:38	156279		1.1249	1.972	1.972	0.0112	0.0112	197	
\$ 13C12-Benzo(j)fluoranthene	54:40	6545559		1.3558	95.4	95.4	0.0165	0.0165	95.39	
D 13C6-Benzo(k)fluoranthene	54:46	8157925		1.7507	92.1	92.1	0.001071	0.001071	92.08	
Benzo[k]fluoranthene	54:46	101746		1.1271	1.107	1.107	0.0102	0.0102	111	
* Benzo(e)pyrene-d12	55:29	5060836		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:34	7869617		1.6368	95.0	95.0	0.0117	0.0117	95.00	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:34	98939		1.0013	1.256	1.256	0.009239	0.009239	126	
Benzo[a]pyrene	55:42	90261		1.1130	1.115	1.115	0.009497	0.009497	112	
D 13C4-Benzo(a)pyrene	55:42	7271246		1.5508	92.6	92.6	0.0124	0.0124	92.65	
D Perylene-d12	55:52	5662636		1.1917	93.9	93.9	0.0173	0.0173	93.89	
Perylene	55:56	105365		1.4307	1.301	1.301	0.008225	0.008225	130	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	4910654		1.0218	95.0	95.0	0.0109	0.0109	94.96	
Indeno[1,2,3-cd]pyrene	58:01	64723		1.1249	1.172	1.172	0.008757	0.008757	117	
D 13C6-Dibenz(a,h)anthracene	58:06	5080699		1.0553	95.1	95.1	0.005829	0.005829	95.13	M
Dibenz(a,h)anthracene	58:06	68899		1.1314	1.199	1.199	0.007519	0.007519	120	
D 13C12-Benzo(ghi)perylene	58:29	5925593		1.2749	91.8	91.8	0.005514	0.005514	91.84	M
Benzo[g,h,i]perylene	58:30	89871		1.2838	1.181	1.181	0.007007	0.007007	118	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS1_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
 Lims ID: IC L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 19-Jun-2024 16:34:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-001
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
 Limit Group: HR - HRPAAH ICAL
 Last Update: 20-Jun-2024 09:51:31 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:51:31

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:33	-1	0.666	9958539	3339076	94	235	35522		
Naphthalene											
128.0626	11:33	11:34	-1	1.001	1255702	387907	406	1015	955		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:52	-1	0.800	4590652	2078419	15	37	138561		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.001	512954	235496	259	647	909		
13C6-Acenaphthylene											
158.0828	16:44	16:45	-1	0.966	4441490	1551969	5	12	310394		
Acenaphthylene											
152.0626	16:44	16:45	-1	1.000	70974	22149	214	535	104		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		2768301	954801	2	5	477401		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	2649873	942829	8	20	117854		
Acenaphthene											
154.0783	17:27	17:27	-1	1.001	149559	50602	140	350	361		
13C6-Fluorene											
172.0984	19:44	19:45	-1	1.139	2300375	659741	6	15	109957		
Fluorene											
166.0783	19:44	19:45	0	1.001	86461	24882	131	327	190		
13C6-Phenanthrene											
184.0984	25:08	25:08	-1	0.709	3481612	802292	3	7	267431		
Phenanthrene											
178.0783	25:08	25:08	-1	1.000	126498	30521	172	430	177		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	2713232	626252	2	5	313126		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	2810000	635348	3	7	211783		
Anthracene											
178.0783	25:27	25:28	-1	1.000	49456	8992	172	430	52		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-1	0.956	7580251	1465845	178	445	8235		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	126601	24370	117	292	208		
Pyrene-d10											
212.1404	35:26	35:27	-1		6636938	1226668	11	27	111515		
13C3-Pyrene											
205.0883	35:34	35:35	-1	1.004	8492459	1575711	118	295	13353		
Pyrene											
202.0783	35:35	35:35	-1	1.000	136948	24652	117	292	211		
13C6-Benzo(c)fluorene											
222.1134	39:16	39:18	-1	0.708	3611915	673373	13	32	51798		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:07	-1	1.301	7605148	1311407	178	445	7367		
Benzo[a]anthracene											
228.0939	46:07	46:07	0	1.000	78927	13628	82	205	166		
13C6-Chrysene											
234.1140	46:22	46:24	-1	1.309	7872763	1307149	178	445	7344		
Chrysene											
228.0939	46:23	46:25	-1	1.000	121048	21156	82	205	258		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-1	0.985	7044571	1868122	13	32	143702		
Benzo[b]fluoranthene											
252.0939	54:38	54:40	-1	1.000	156279	41853	94	235	445		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-1	0.985	6545559	1666162	153	382	10890		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	8157925	2035926	13	32	156610		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	101746	26976	94	235	287		
Benzo(e)pyrene-d12											
264.1692	55:29	55:30	-1		5060836	1707083	141	352	12107		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:35	-1	1.002	7869617	2540474	131	327	19393		
Benzo[e]pyrene											
252.0939	55:34	55:35	-1	1.000	98939	32907	94	235	350		
Benzo[a]pyrene											
252.0939	55:42	55:44	-1	1.000	90261	27237	94	235	290		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:42	55:44	-1	1.004	7271246	2223191	131	327	16971		
Perylene-d12											
264.1692	55:52	55:54	-1	1.007	5662636	1997049	141	352	14163		
Perylene											
252.0939	55:56	55:58	-1	1.001	105365	30703	94	235	327		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	4910654	1542898	76	190	20301		
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	64723	19980	61	152	328		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	-1	1.047	5080699	1316523	42	105	31346		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	68899	18096	45	112	402		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	5925593	1689760	48	120	35203		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-1	1.000	89871	23753	61	152	389		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS1_00002

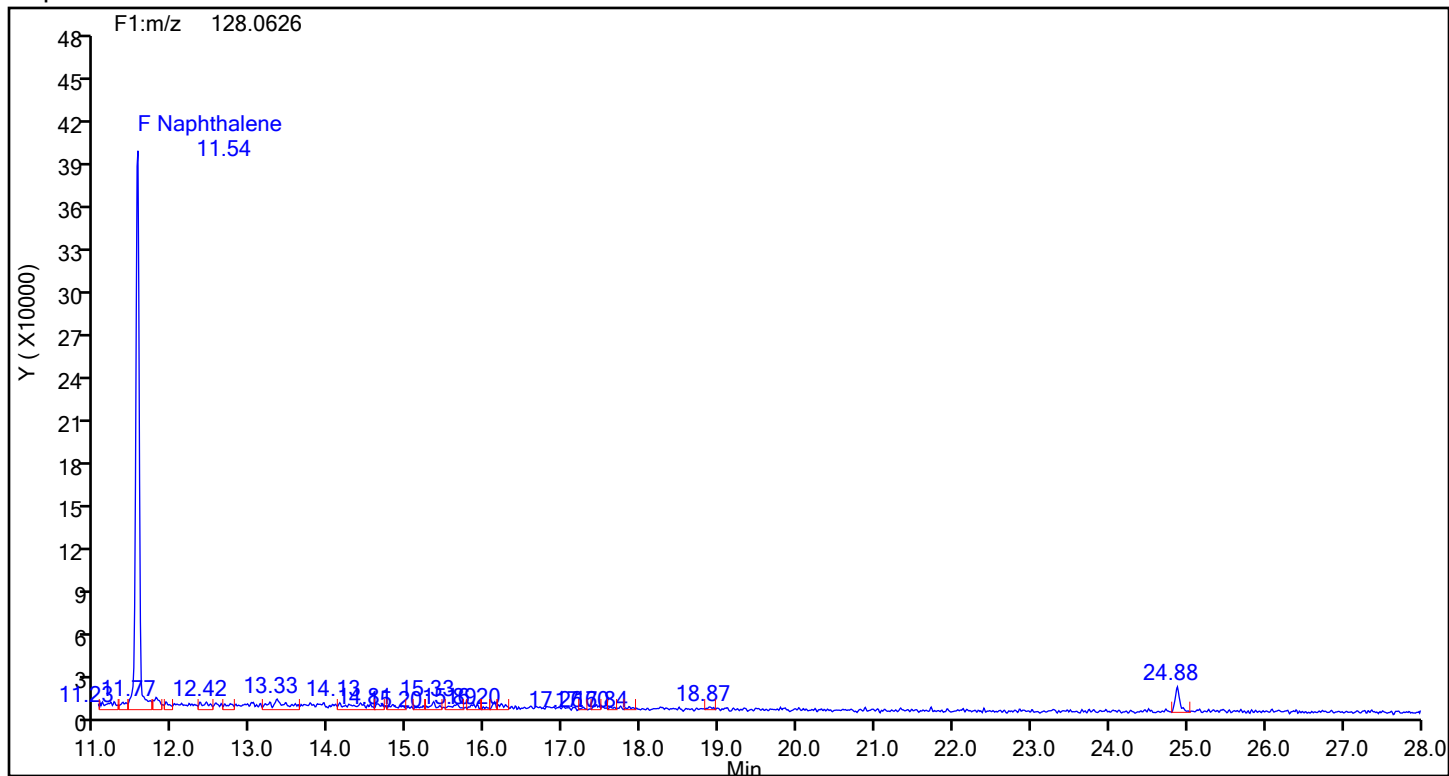
Amount Added: 20.00

Units: uL

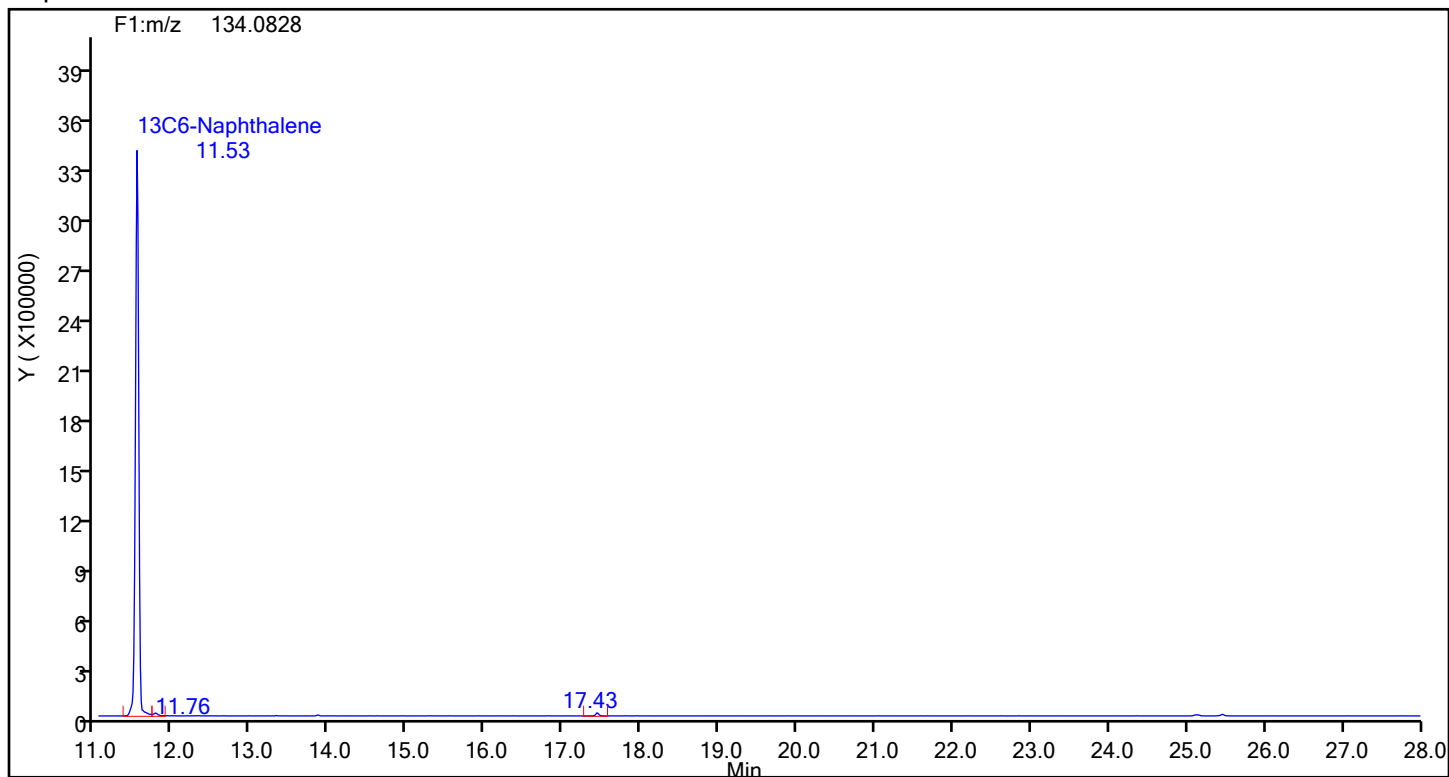
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



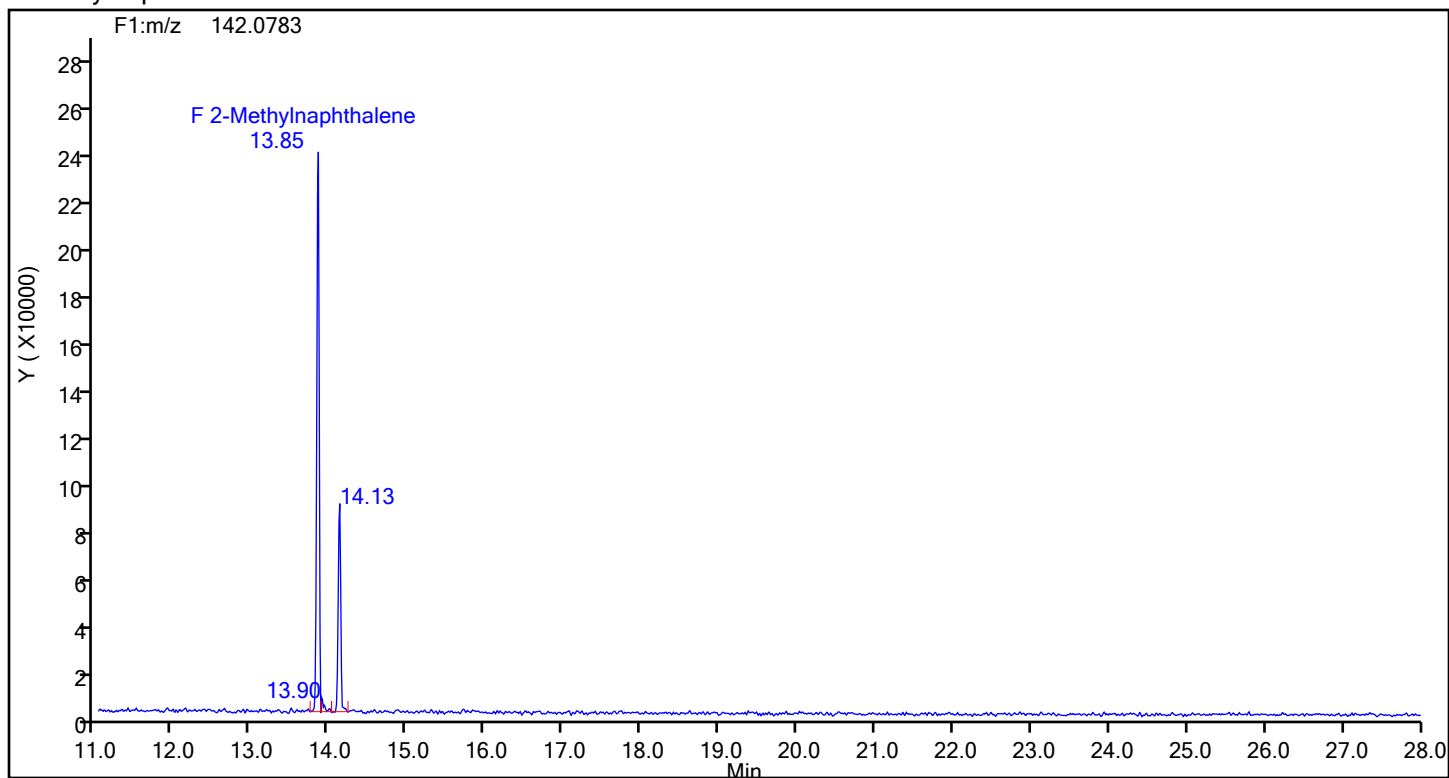
Naphthalene Standards



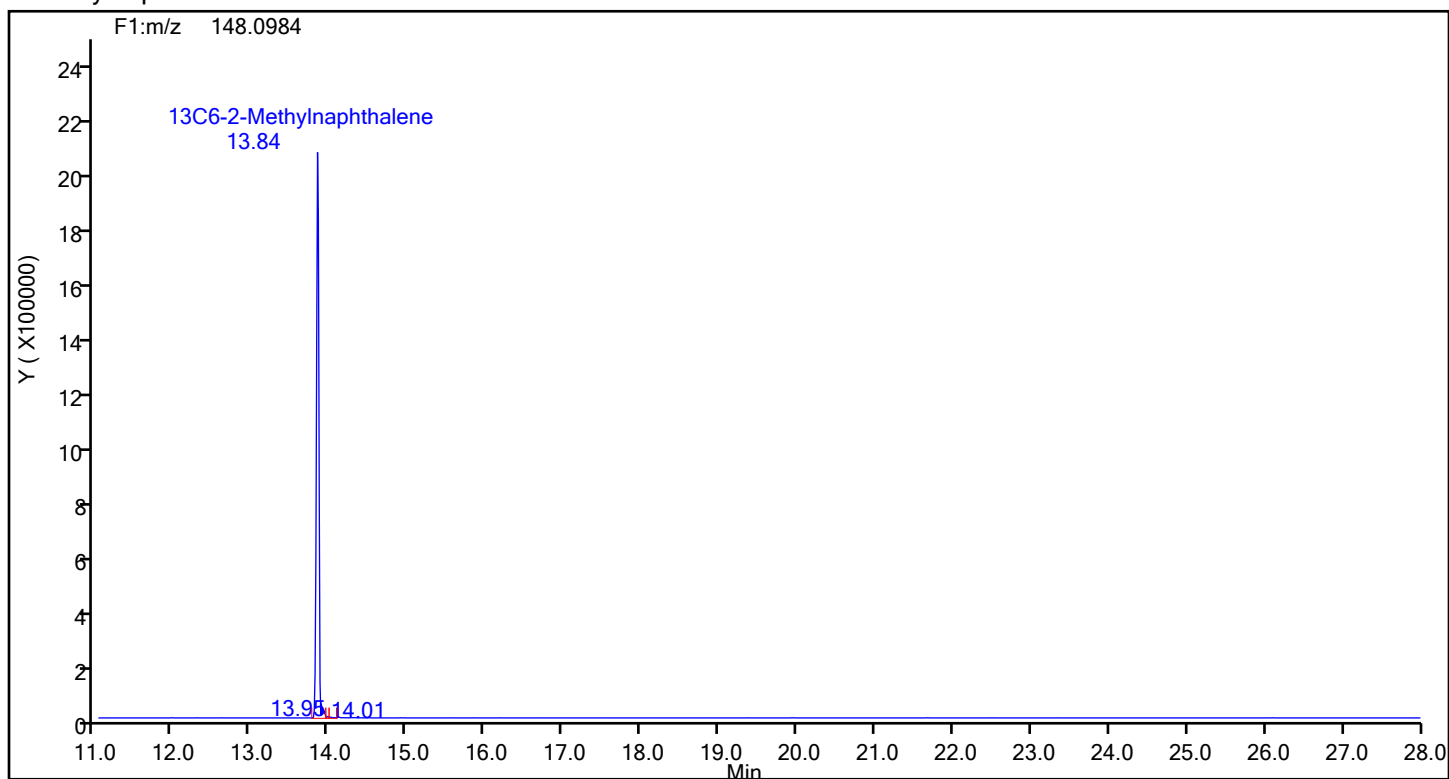
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



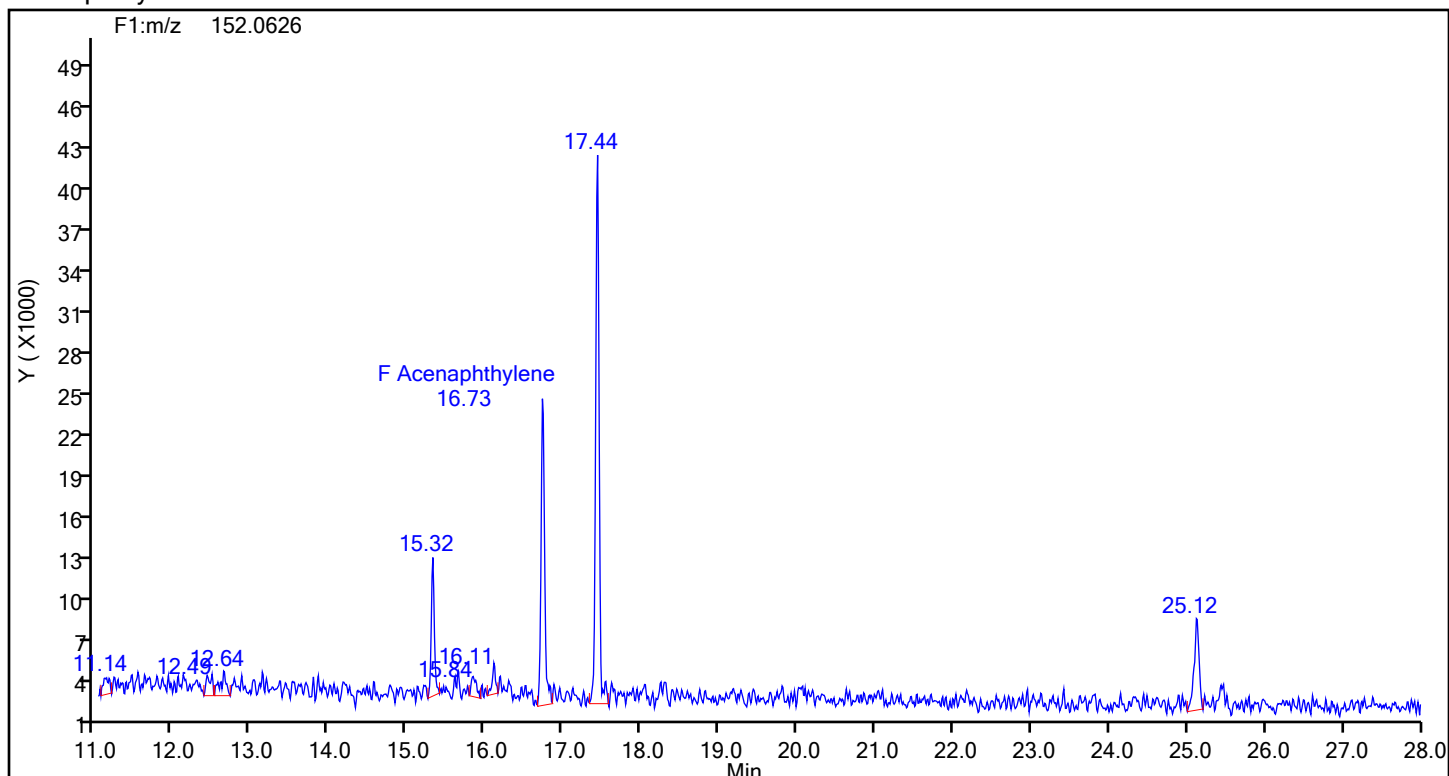
2-Methylnaphthalene Standards



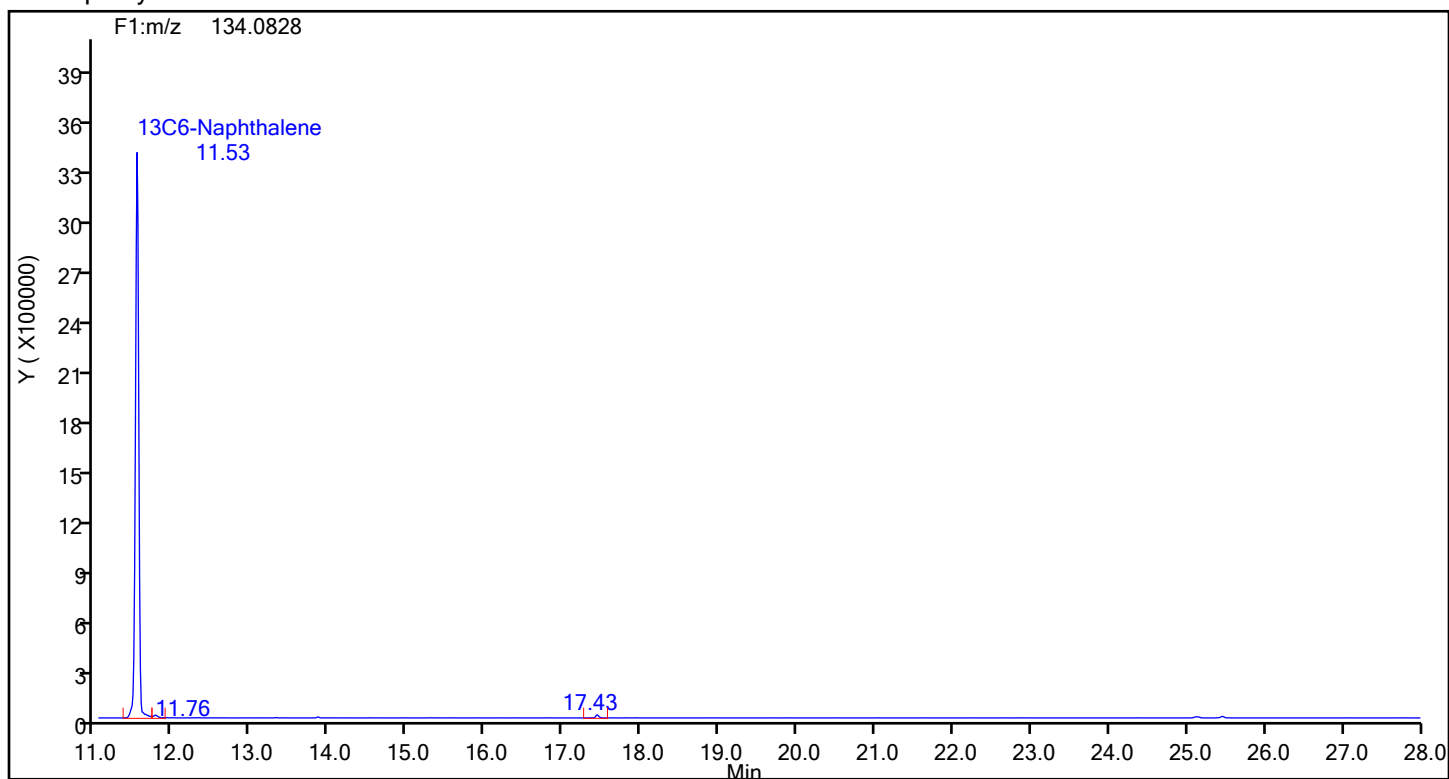
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



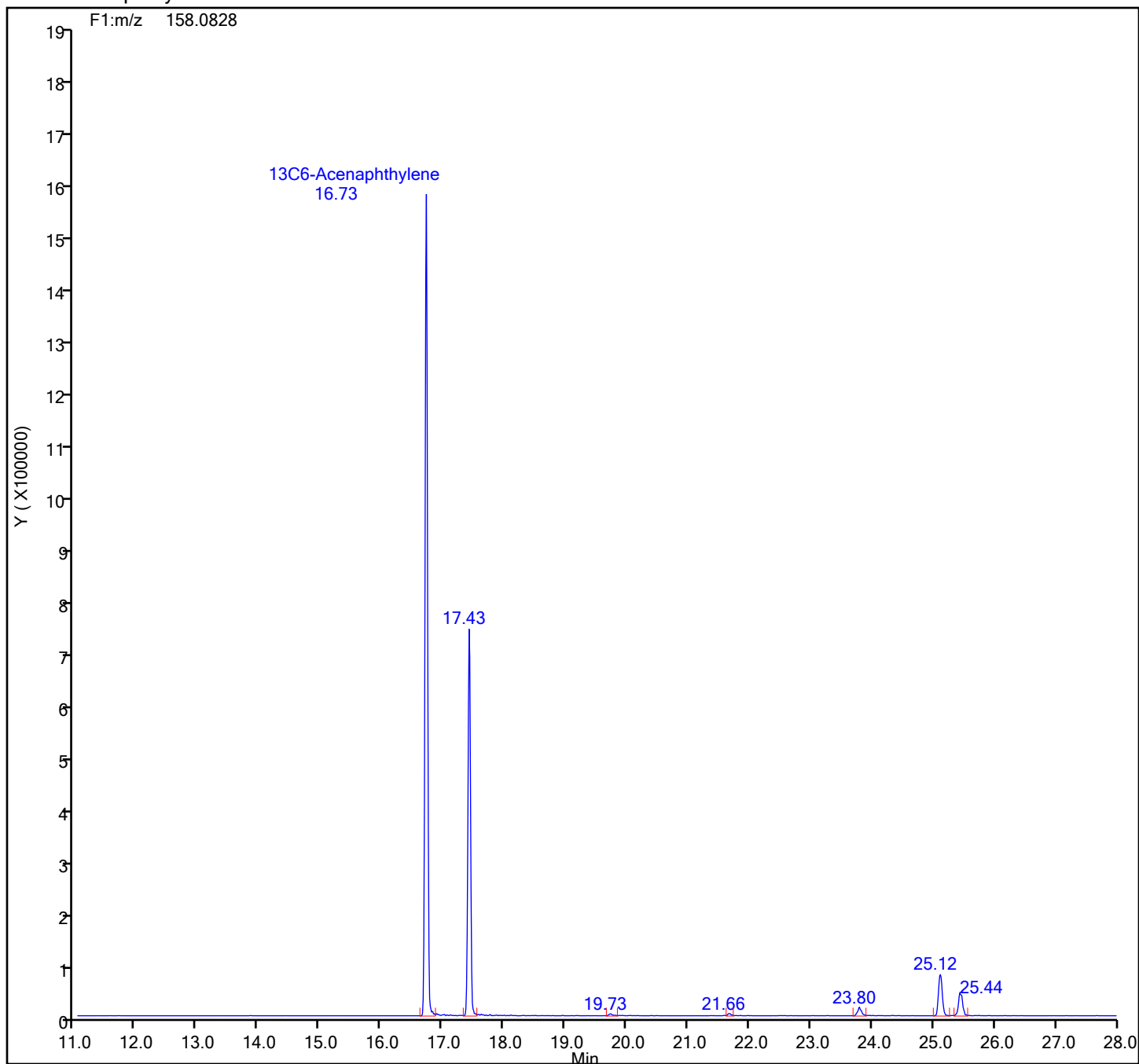
Acenaphthylene Standards



Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

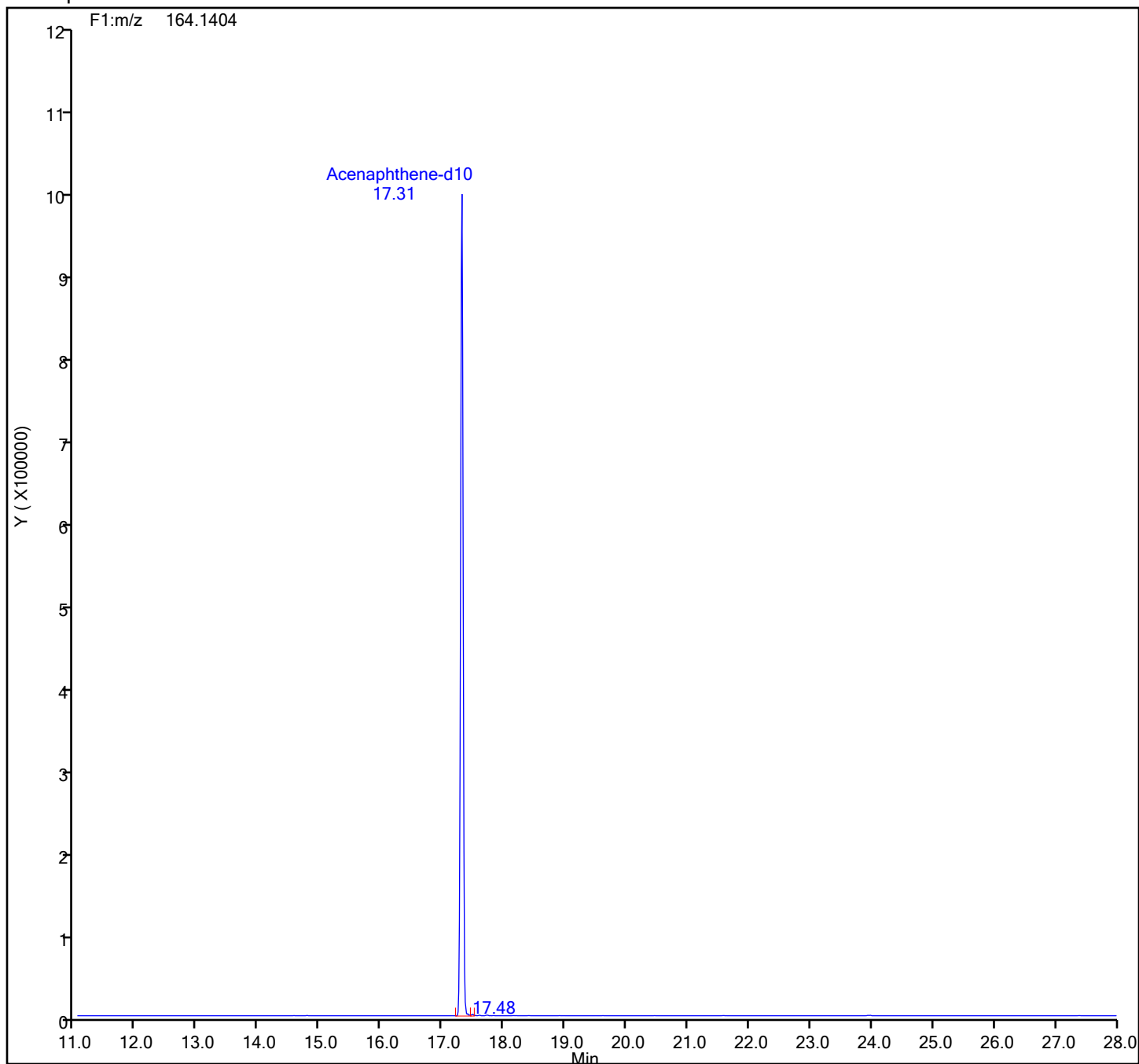
13C6-Acenaphthylene Standards



Eurofins Knoxville

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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

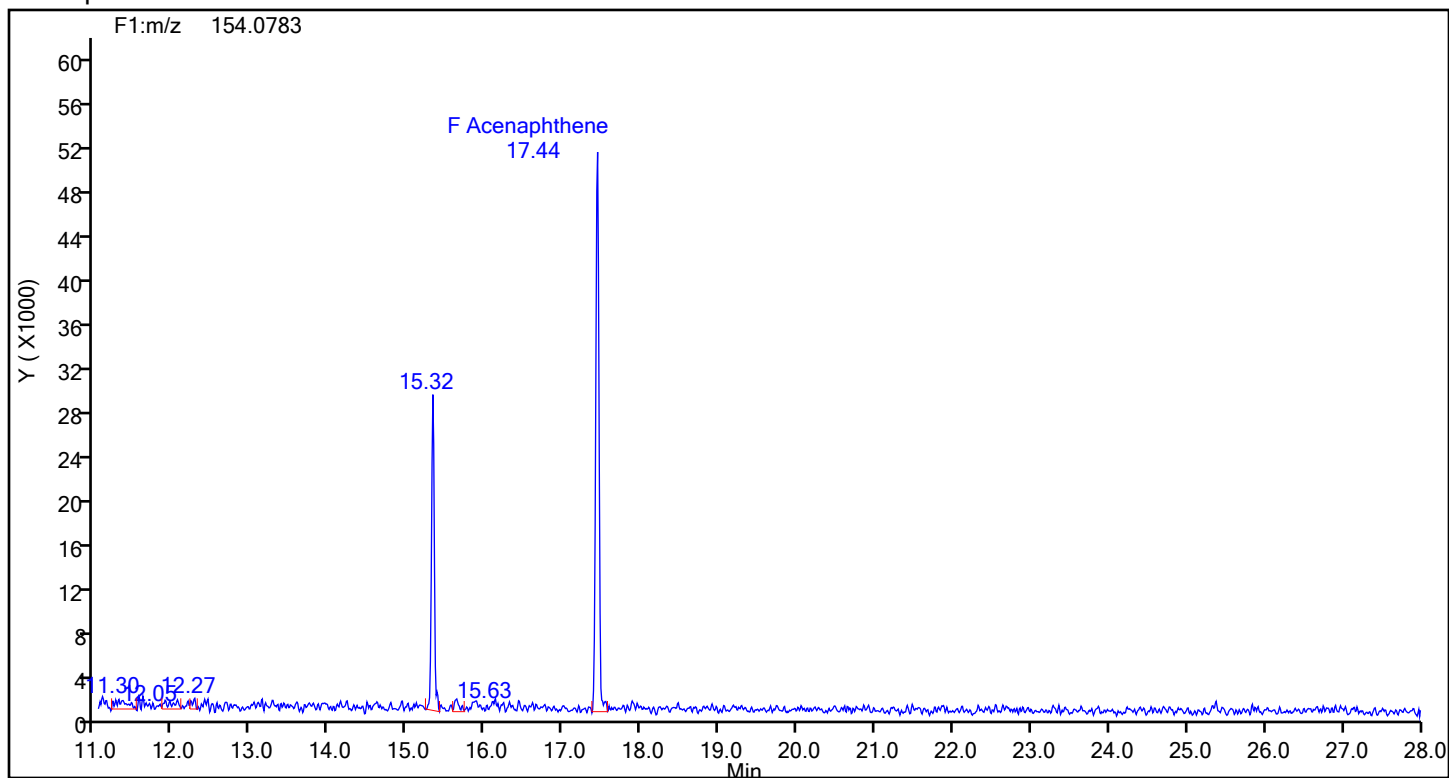
Acenaphthene-d10 Standards



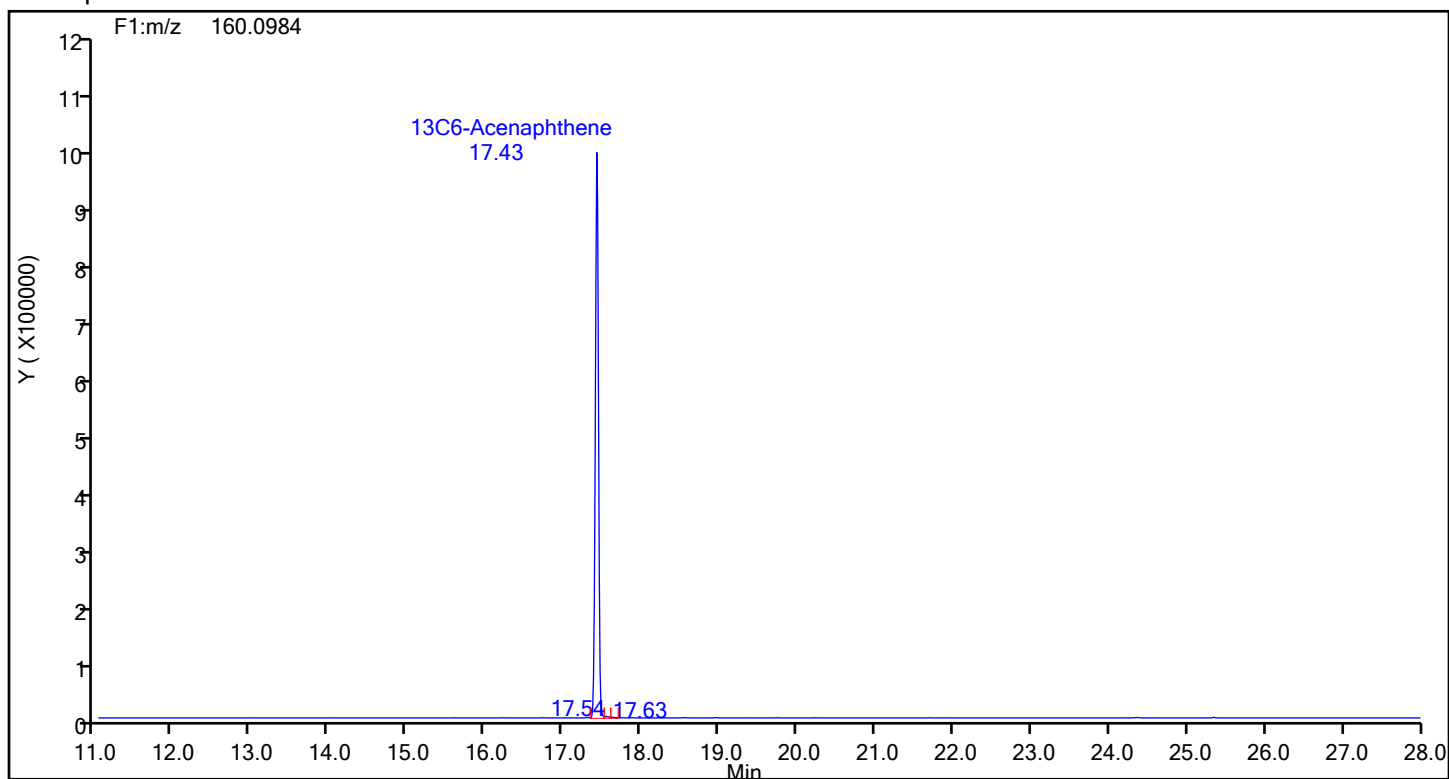
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



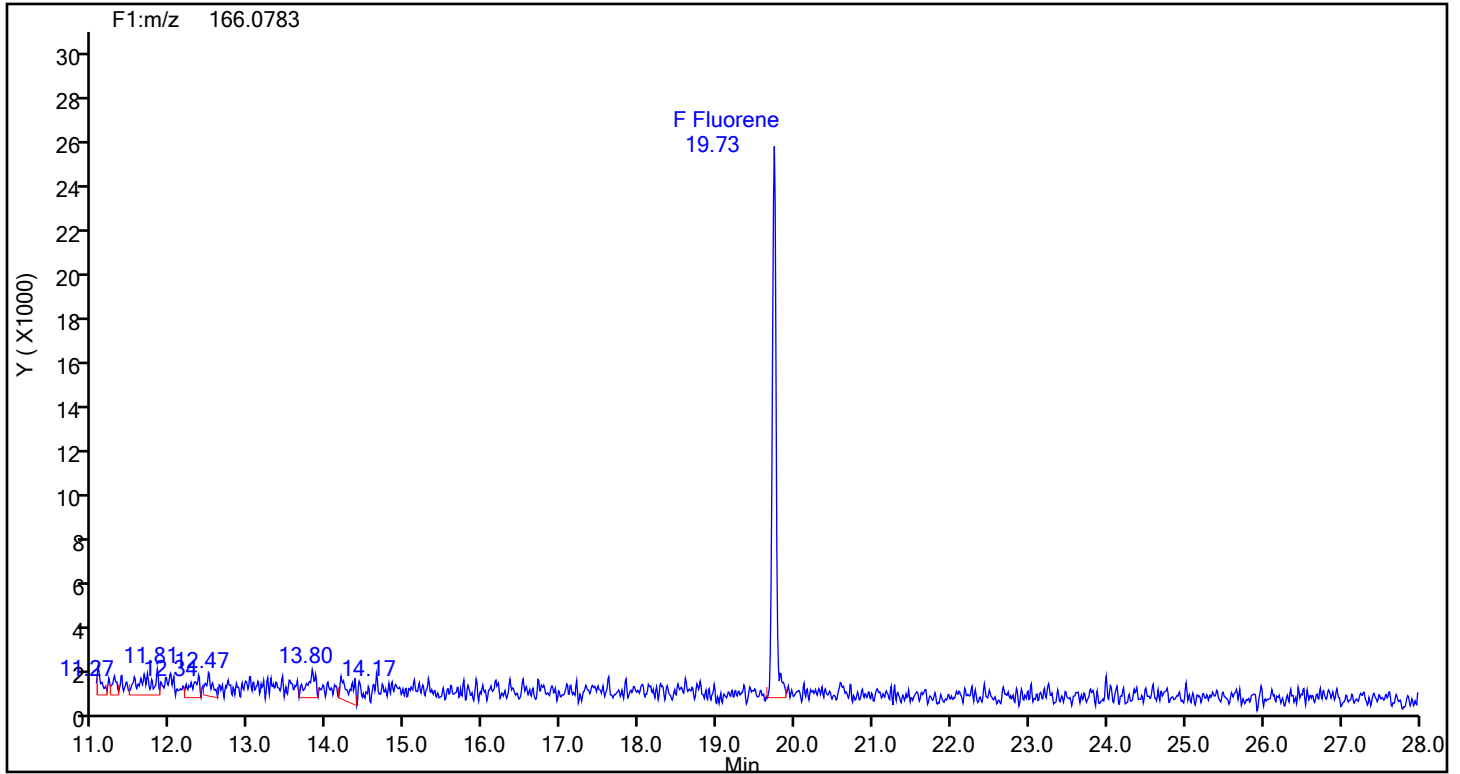
Acenaphthene Standards



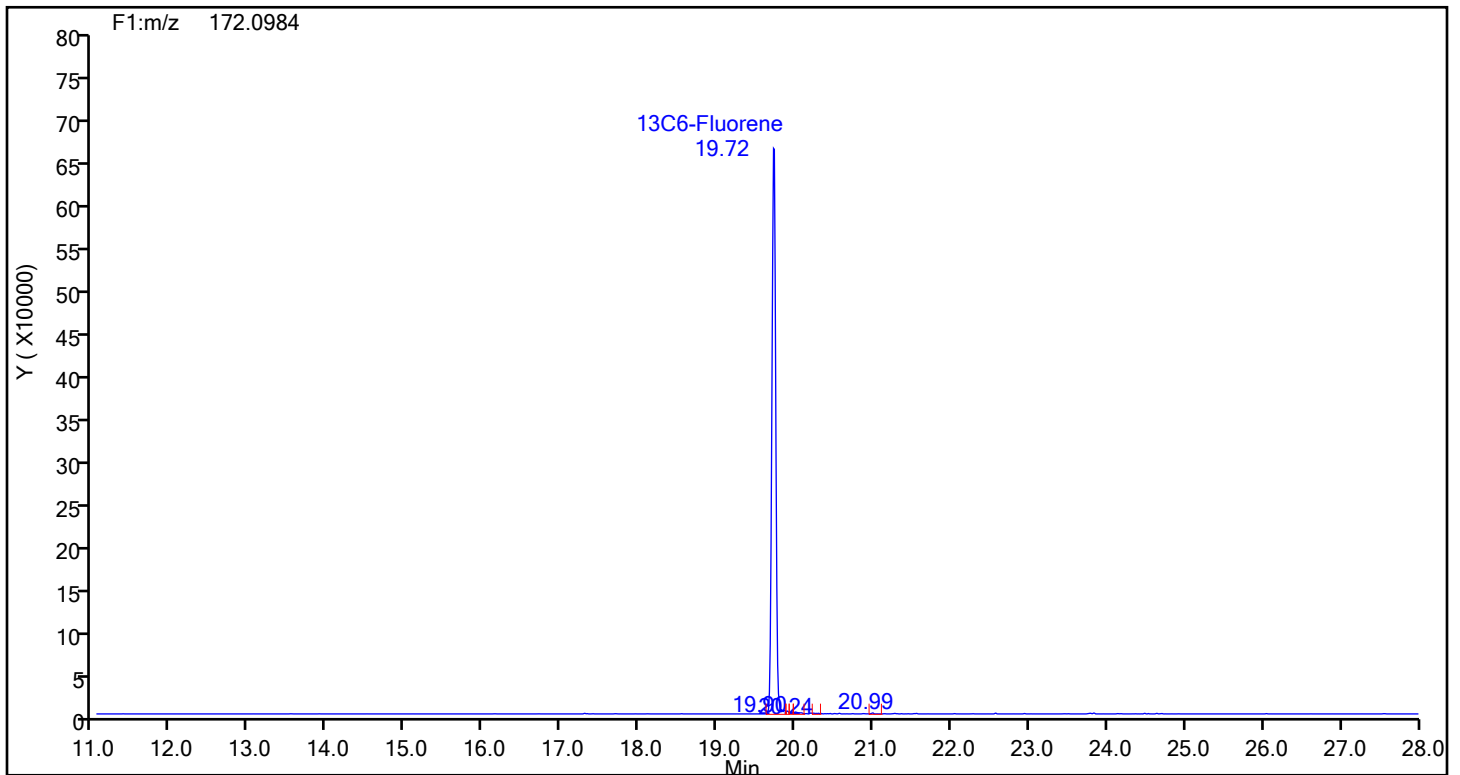
Eurofins Knoxville

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Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

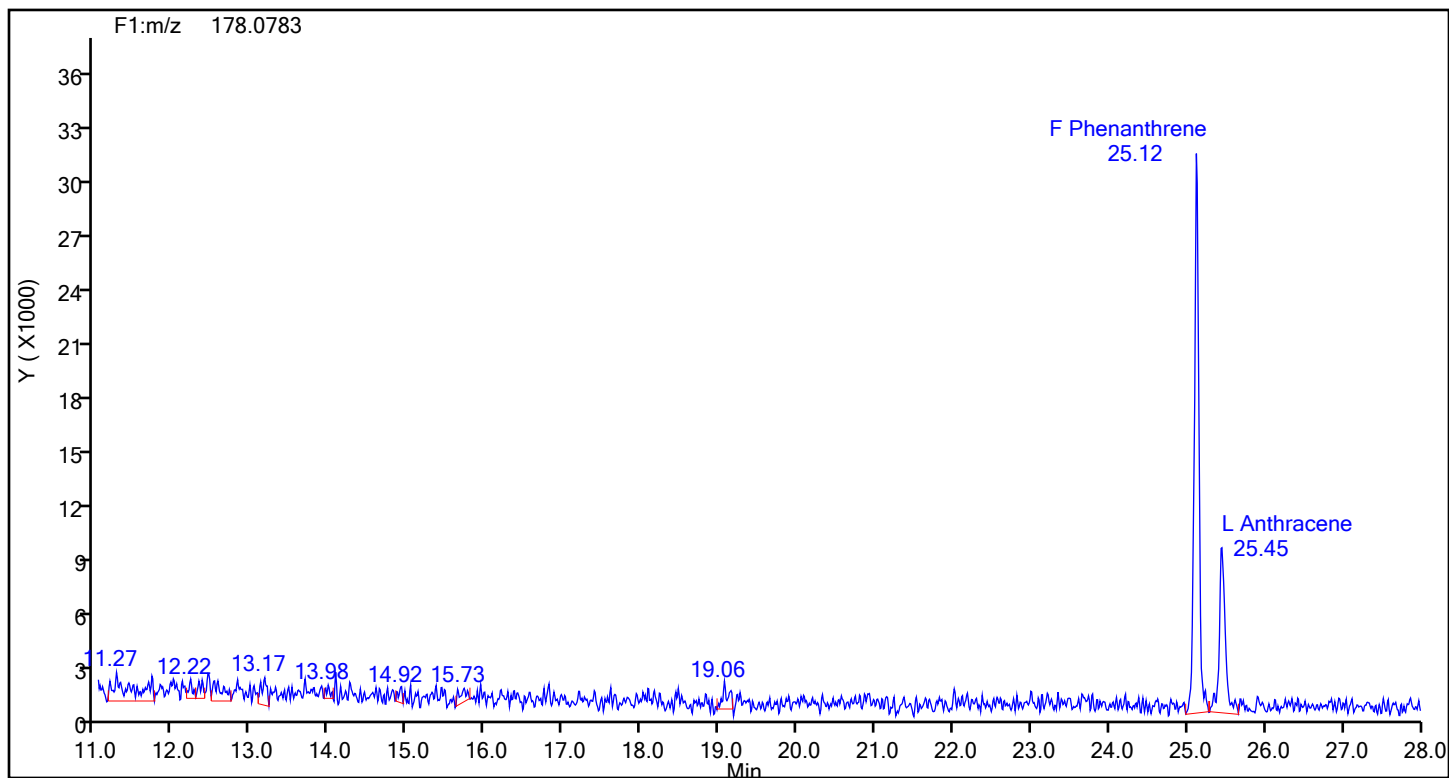


Fluorene Standards

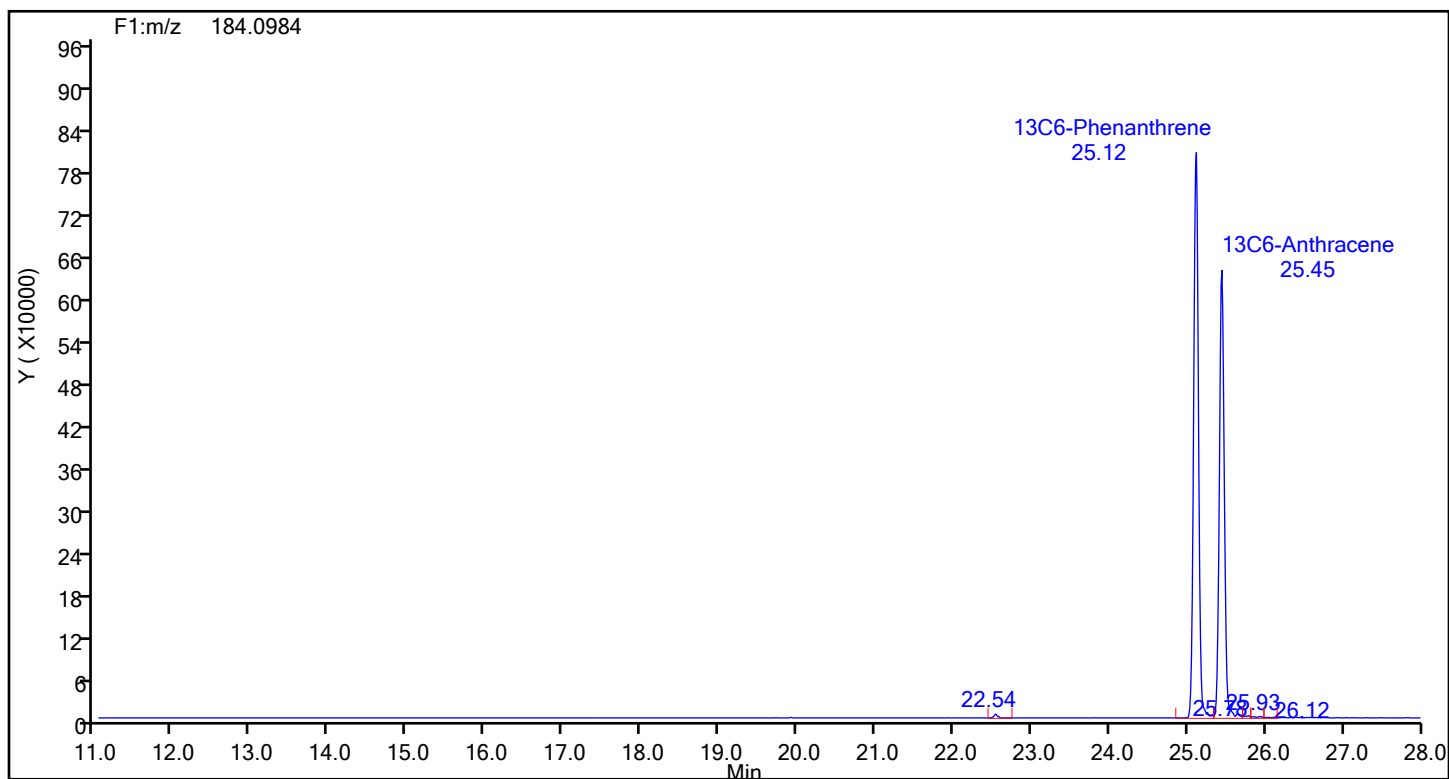


Eurofins Knoxville

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Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene

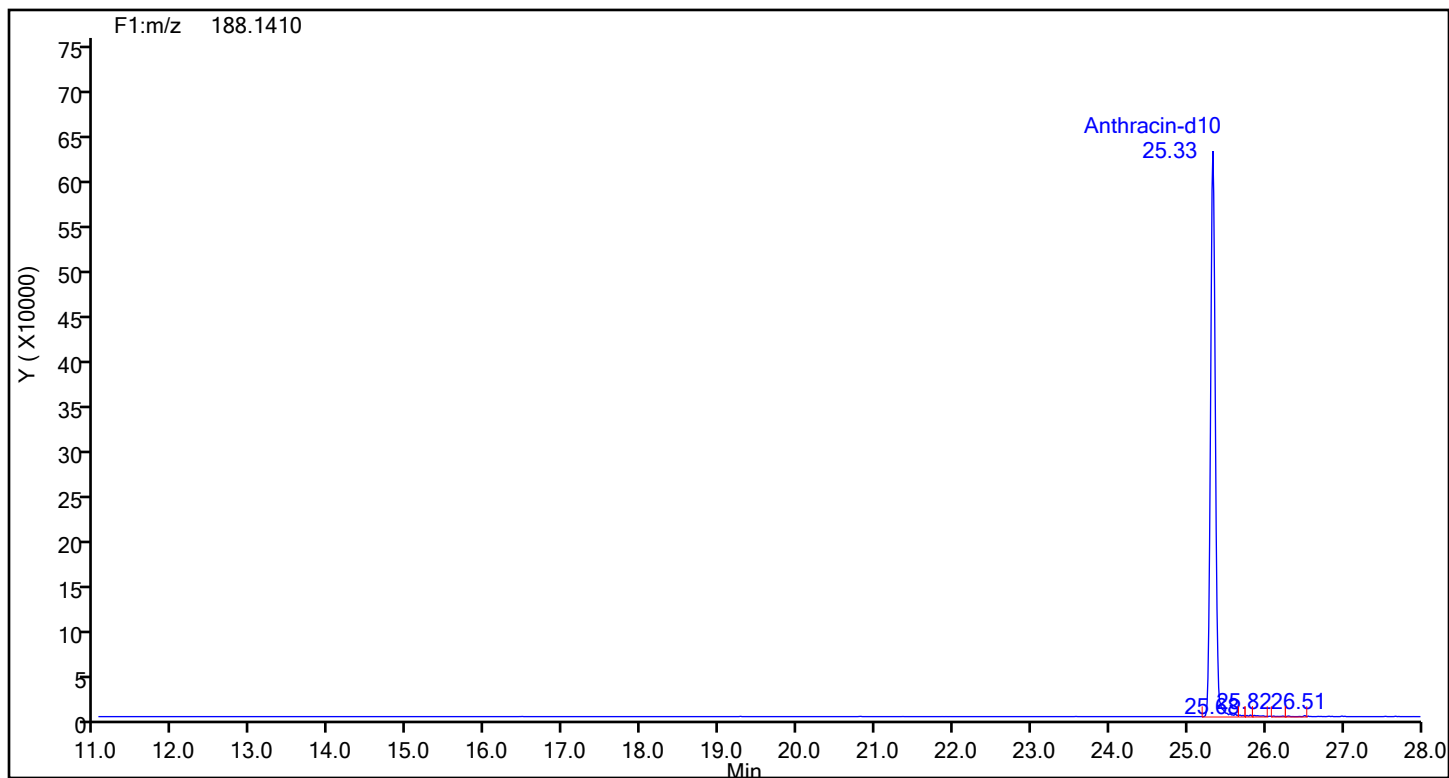


Phenanthrene Standards

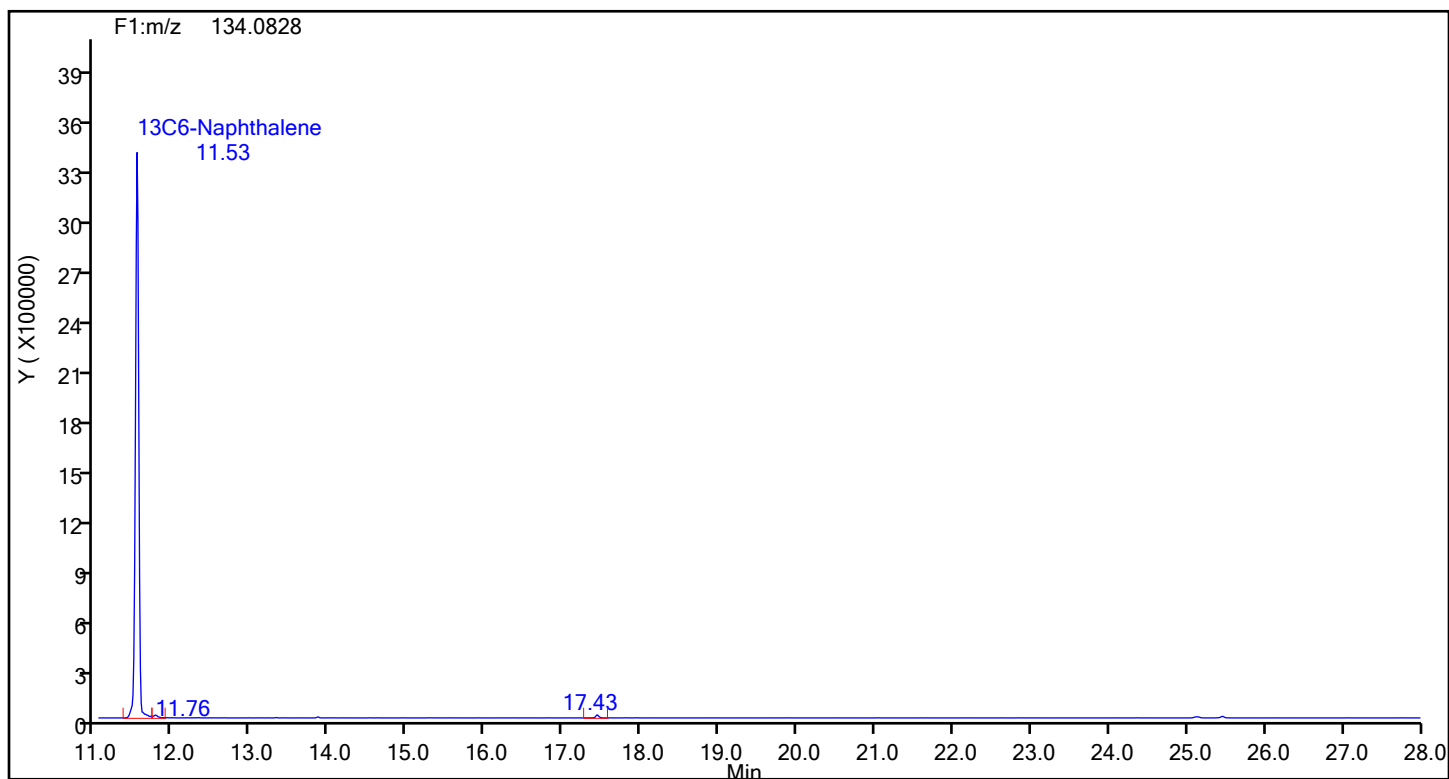


Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

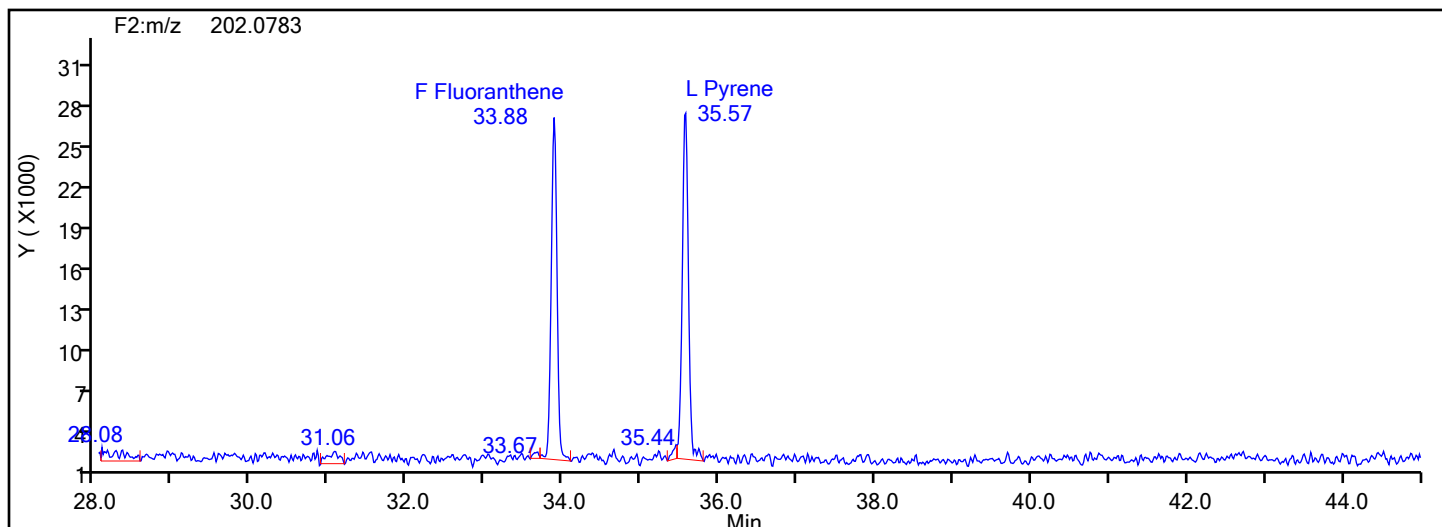


Anthracin-d10 Standards

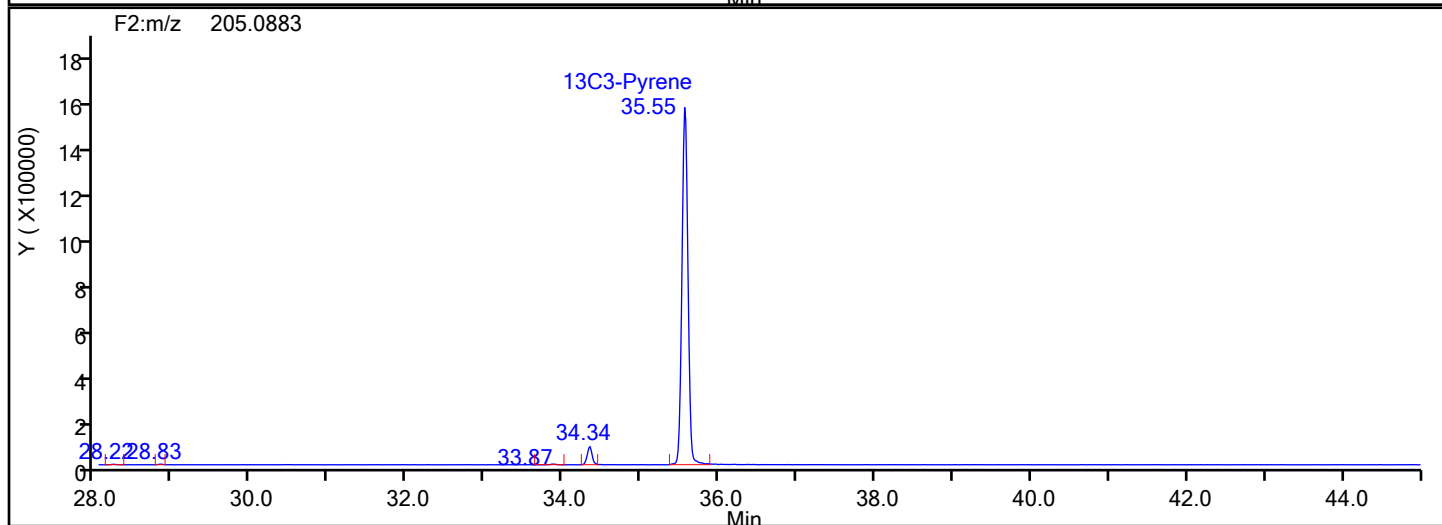
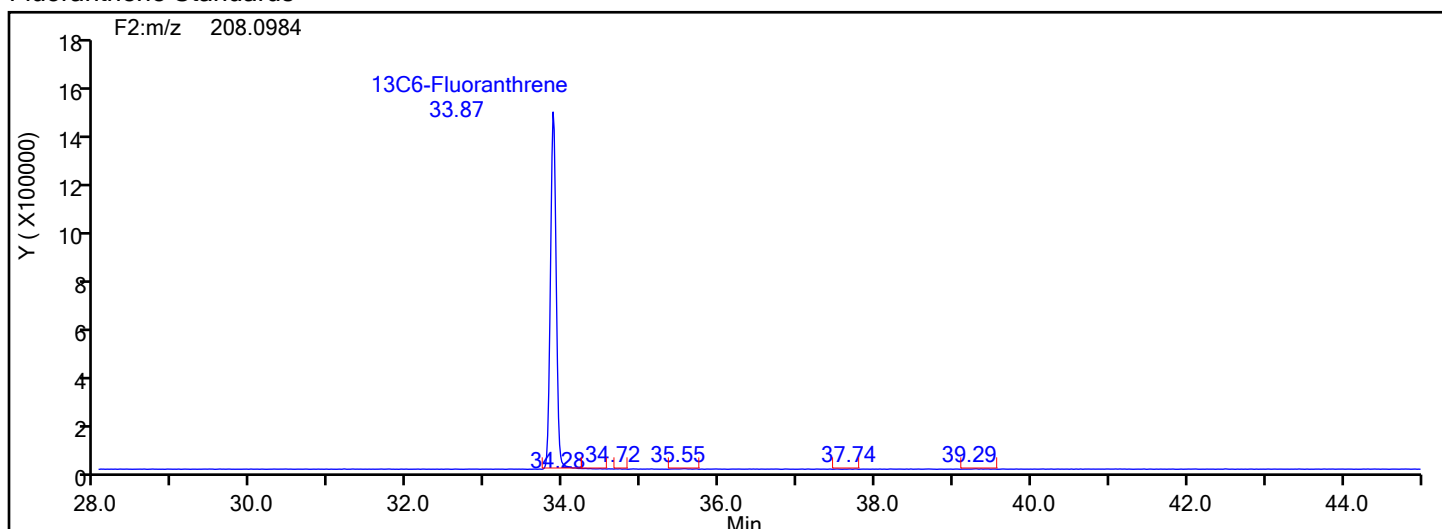


Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



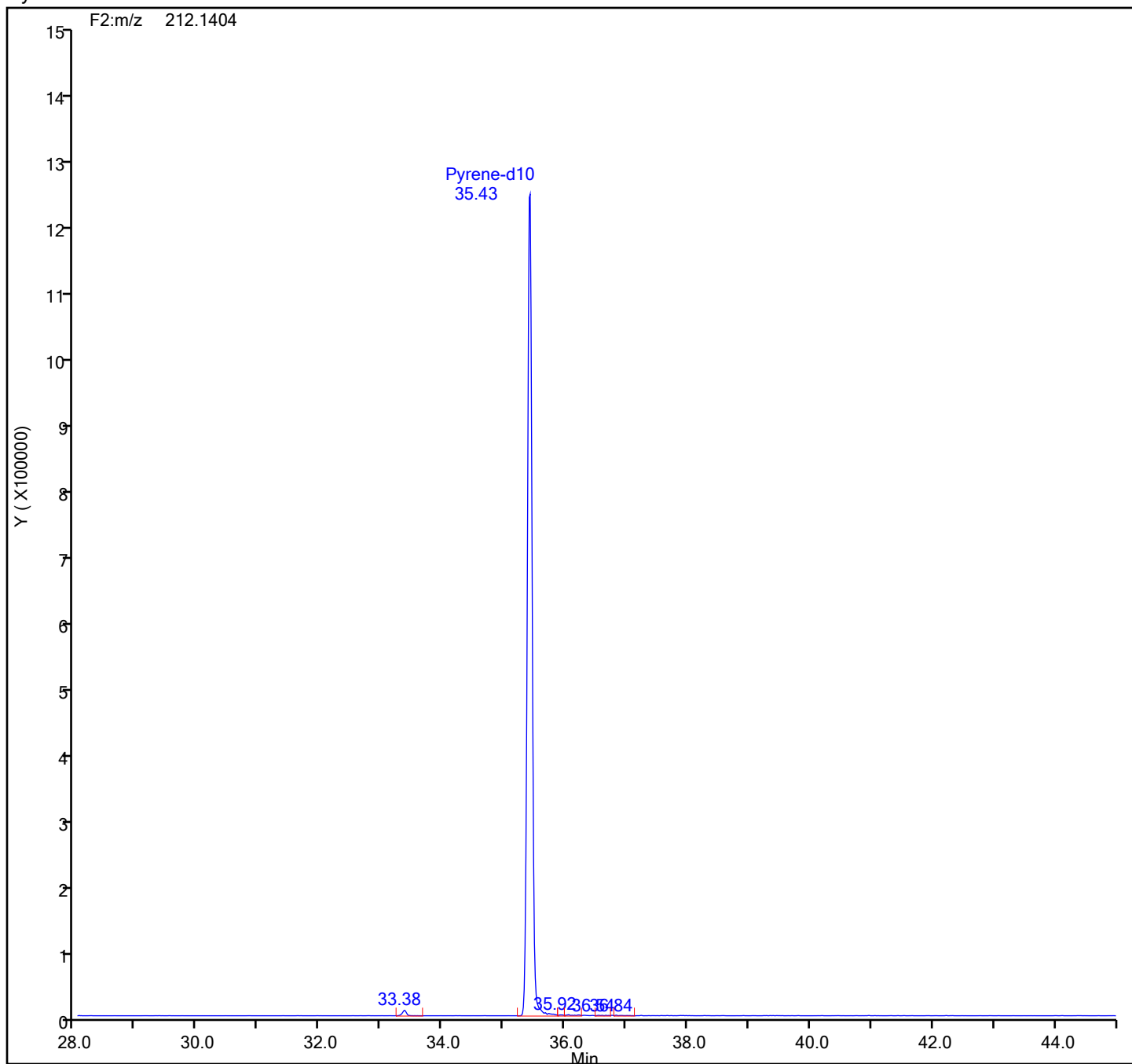
Fluoranthene Standards



Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

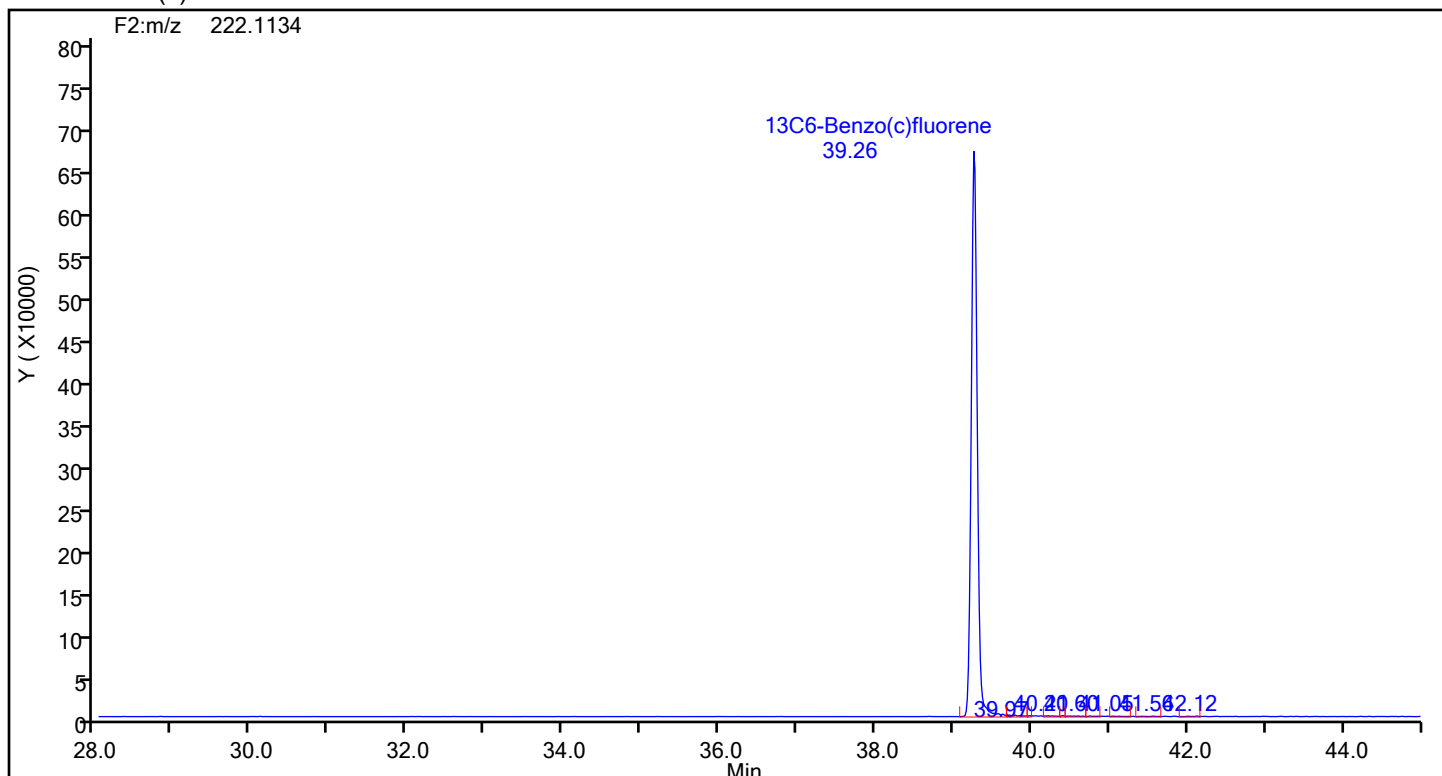
Pyrene-d10 Standards



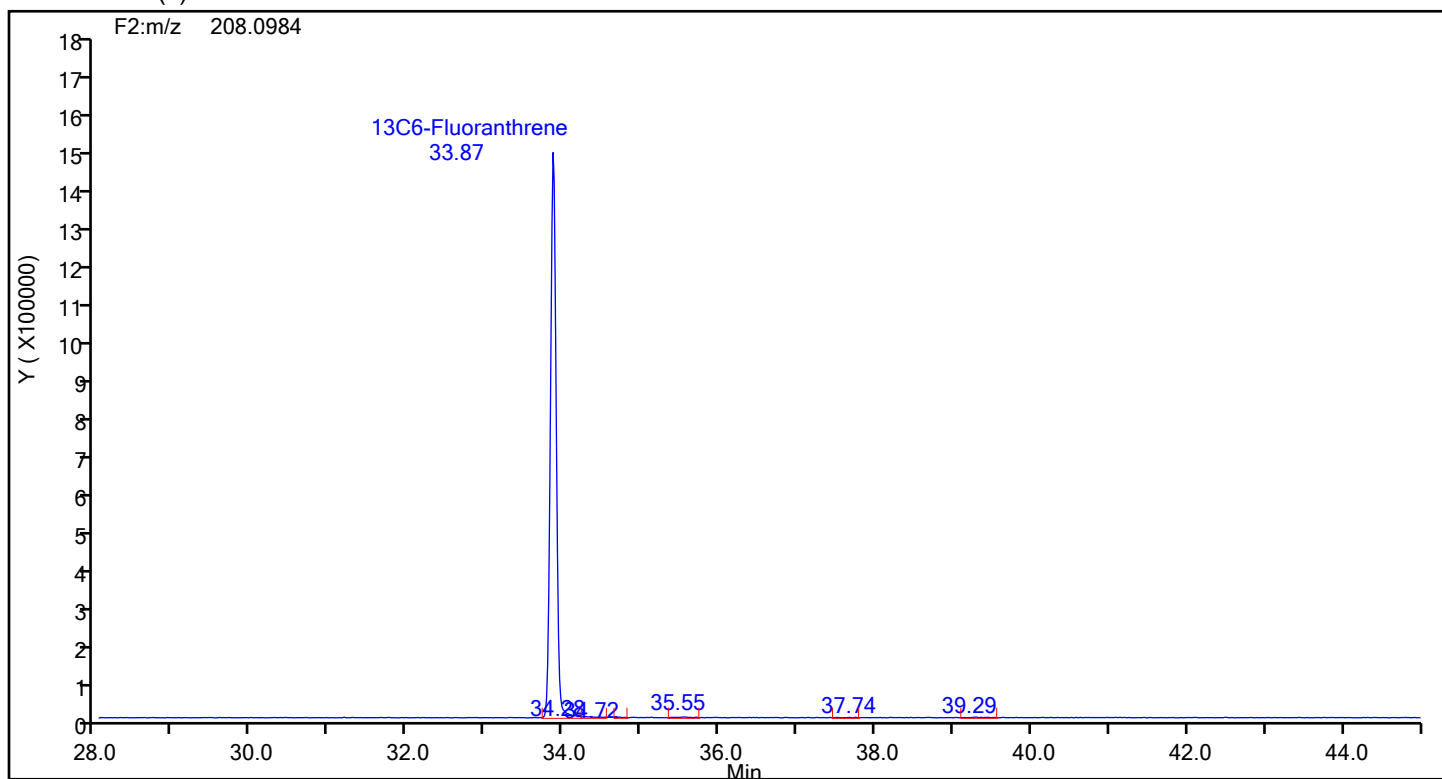
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



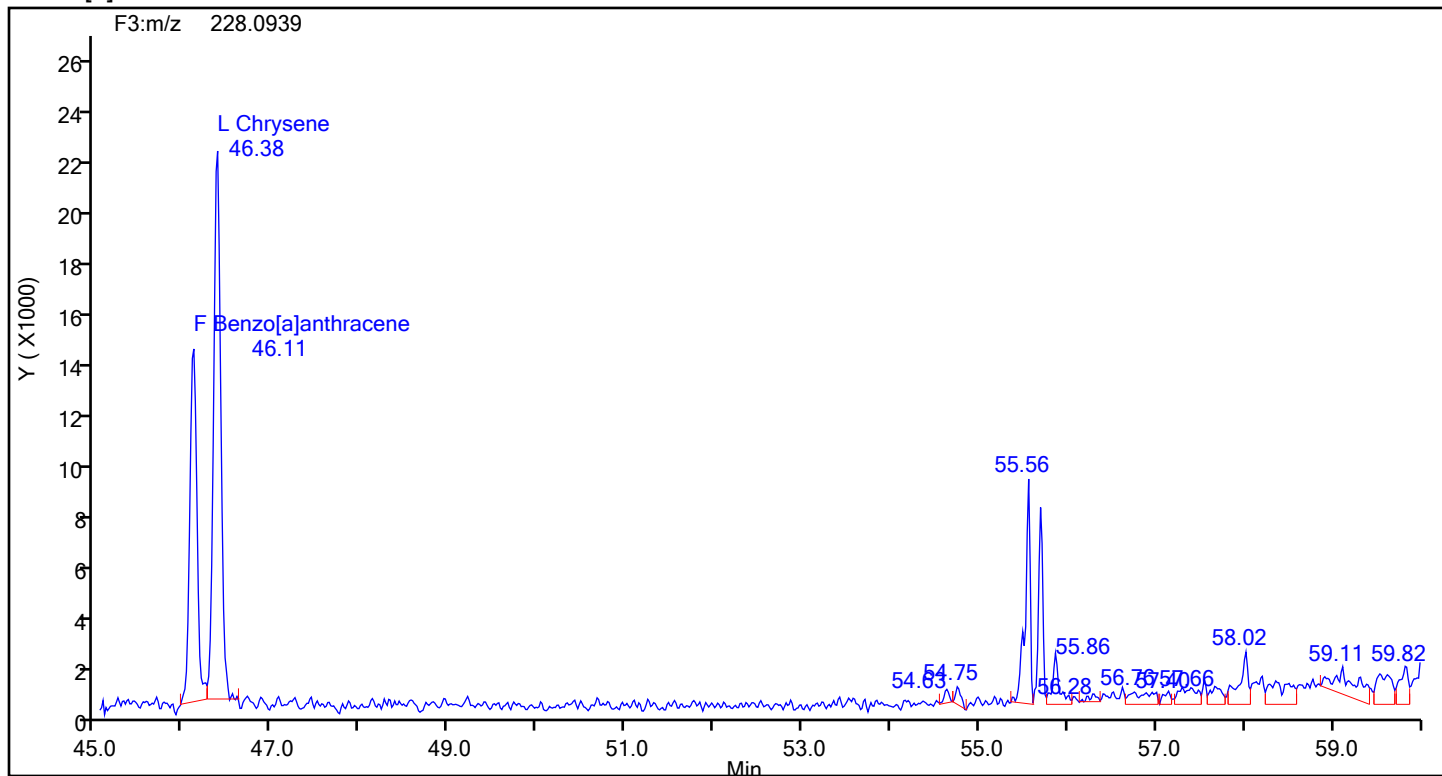
13C6-Benzo(c)fluorene Standards



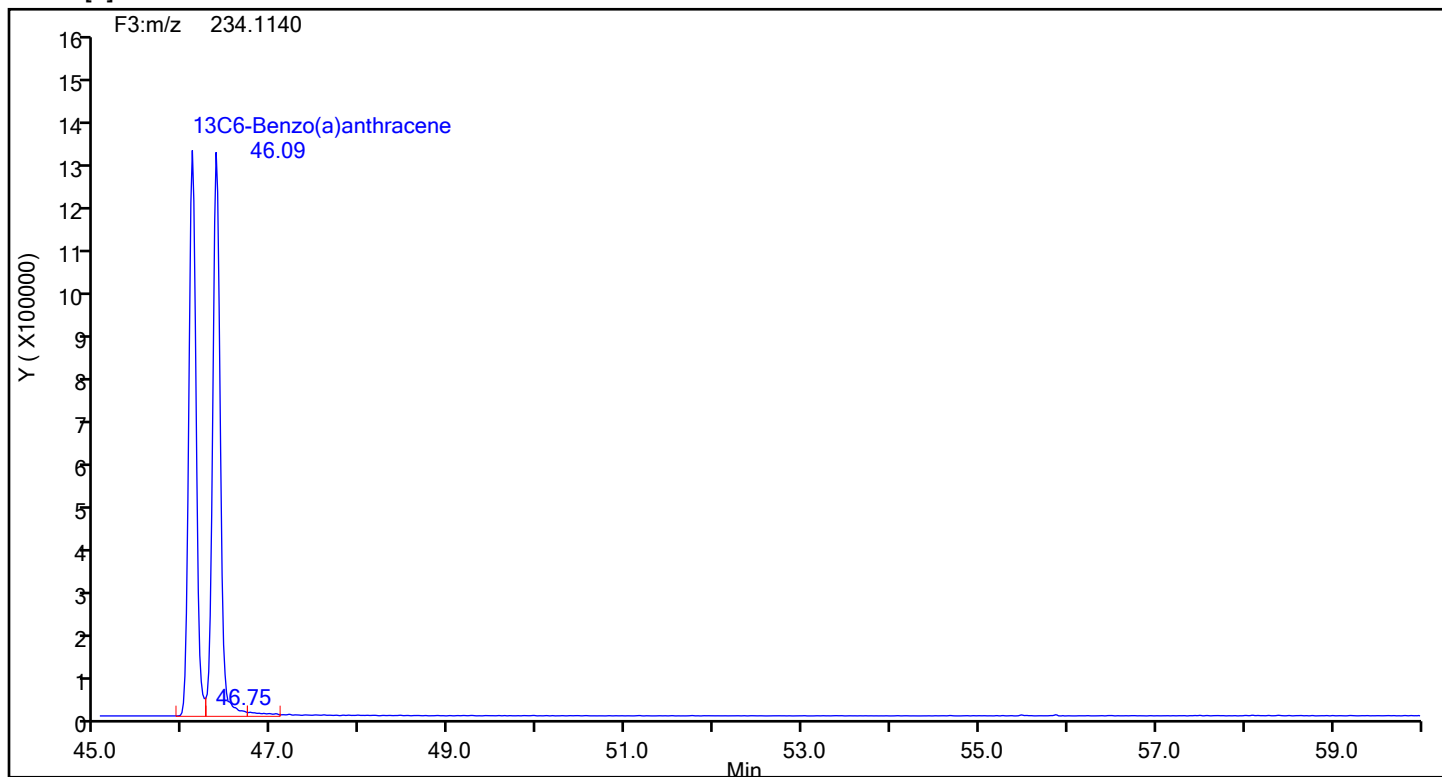
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



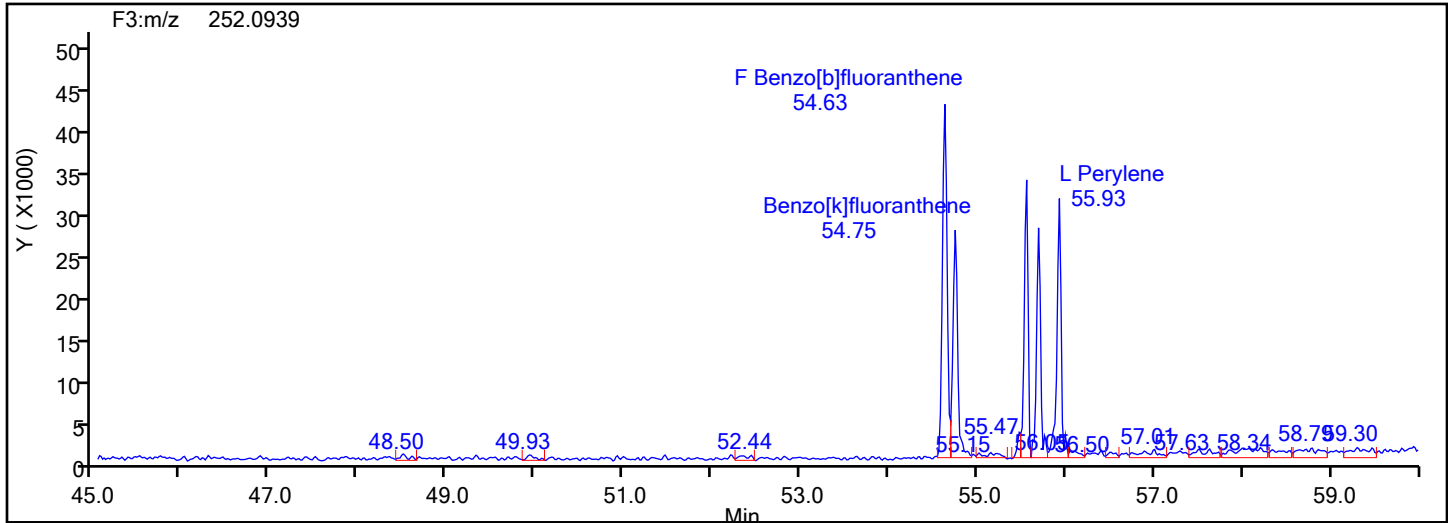
Benzo[a]anthracene Standards



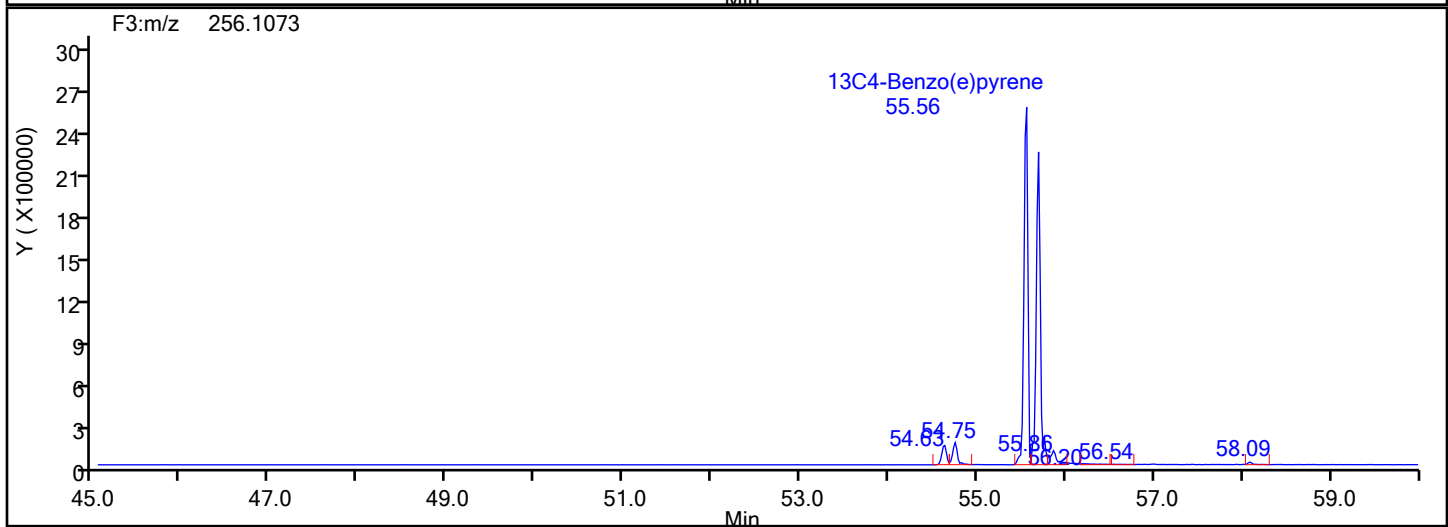
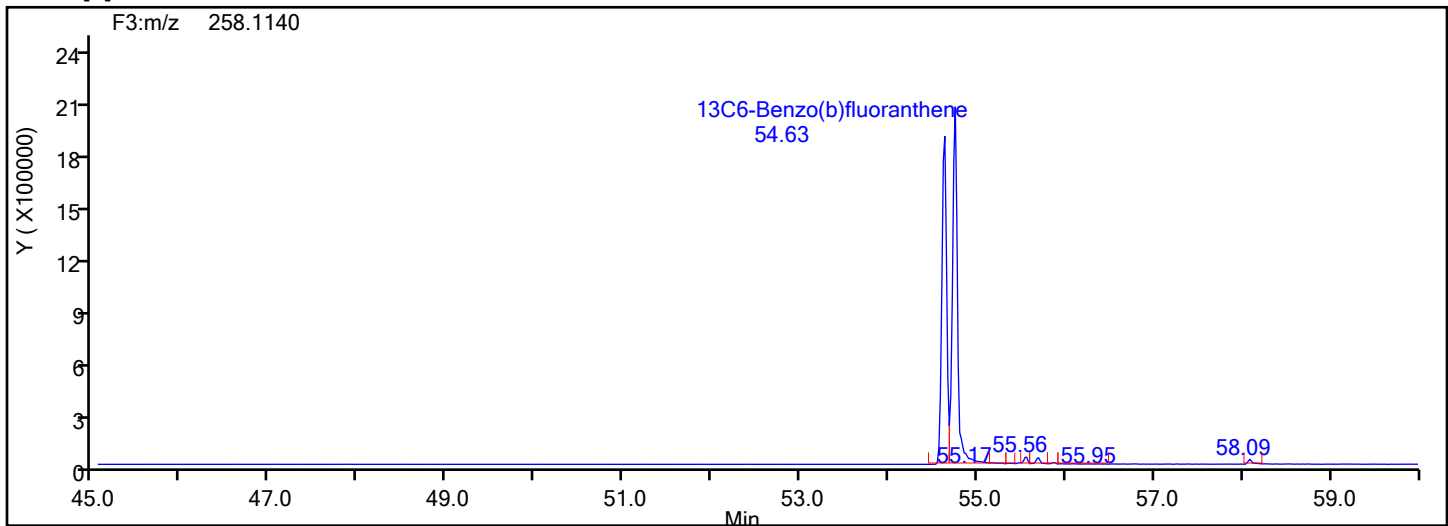
Eurofins Knoxville

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Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



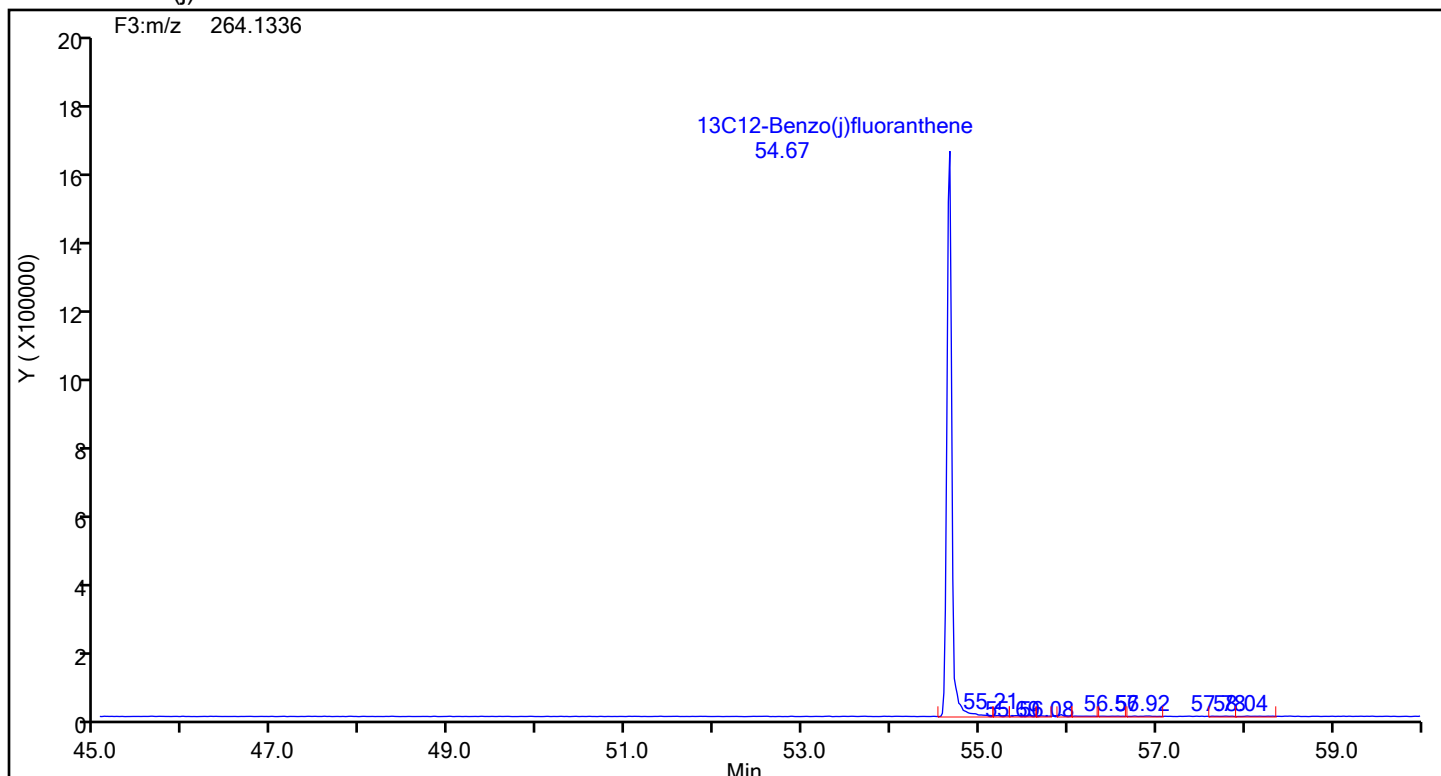
Benzo[b]fluoranthene Standards



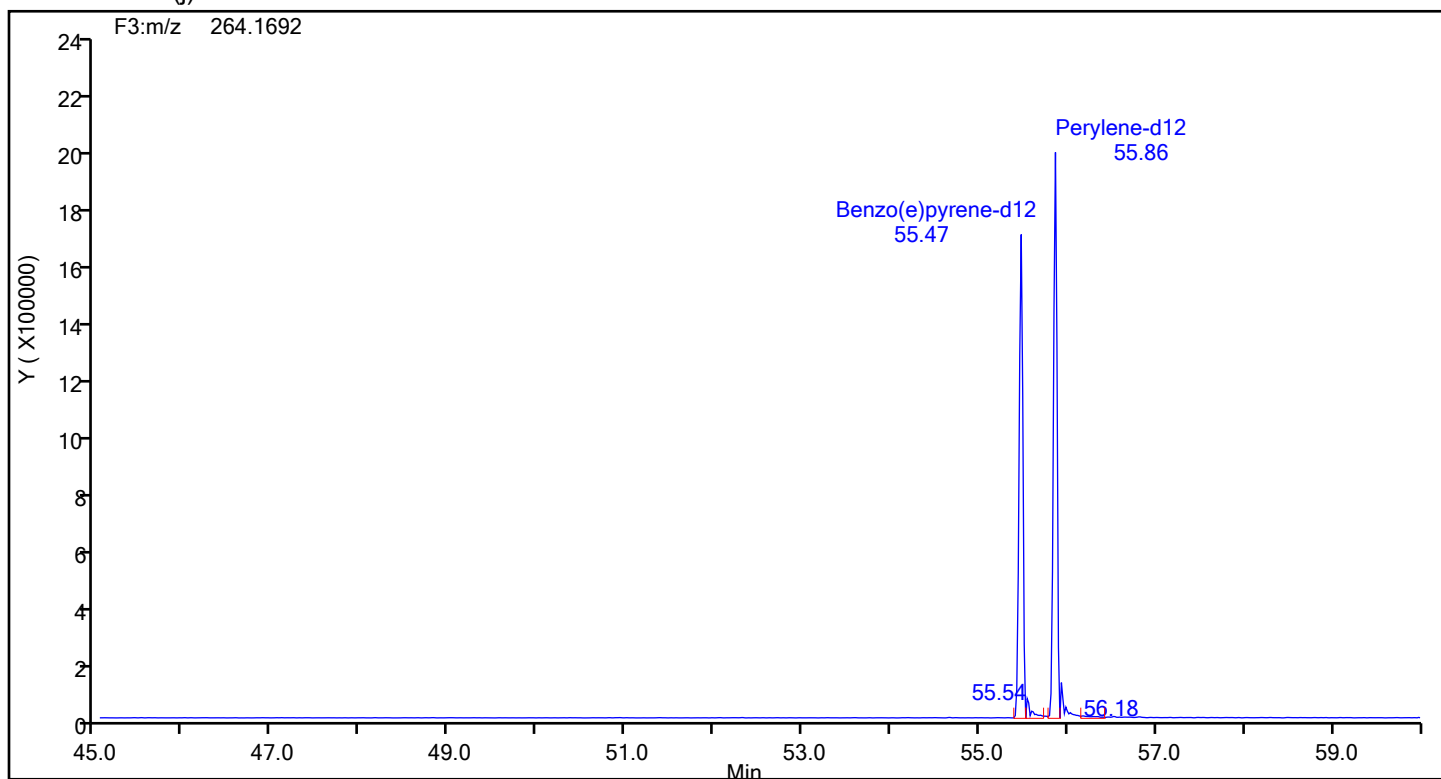
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



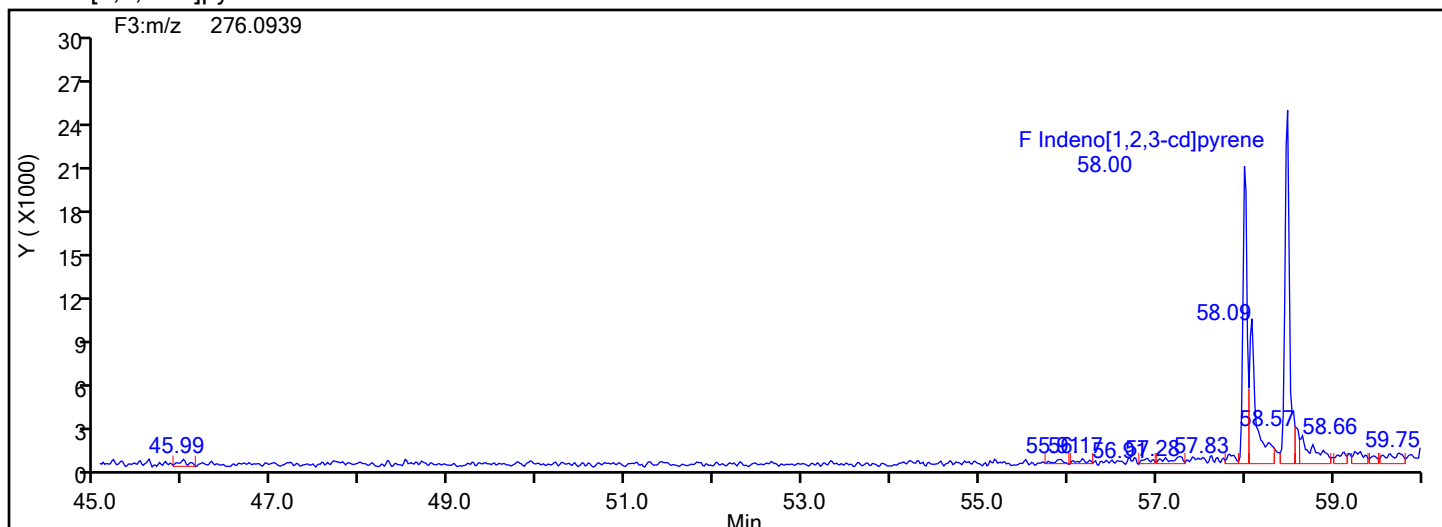
13C12-Benzo(j)fluoranthene Standards



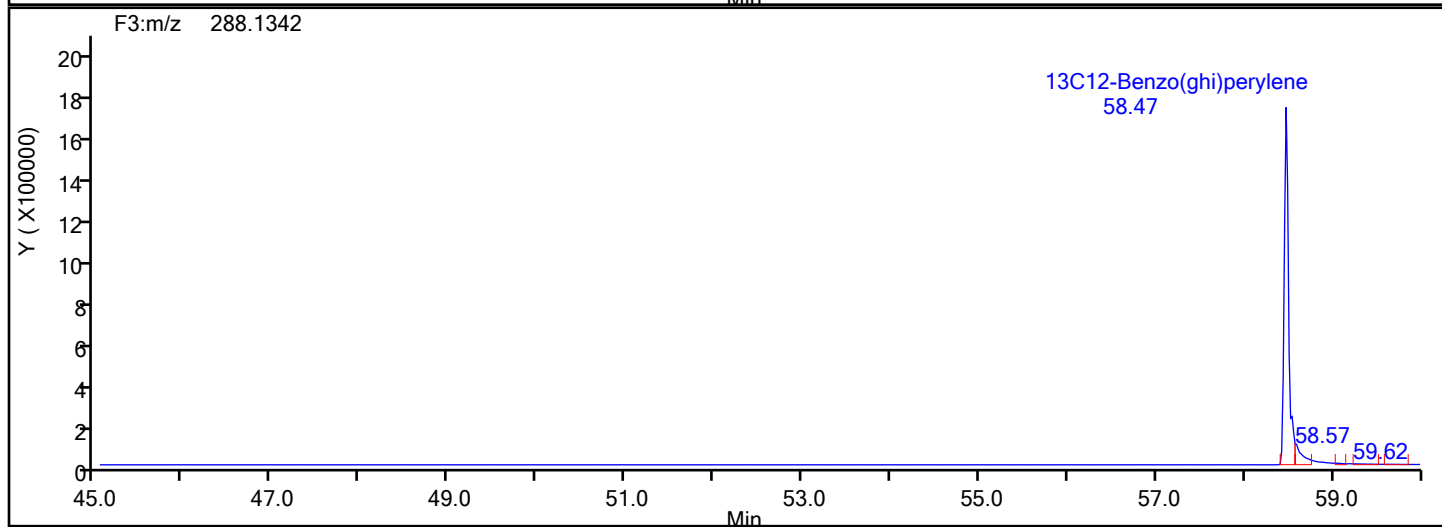
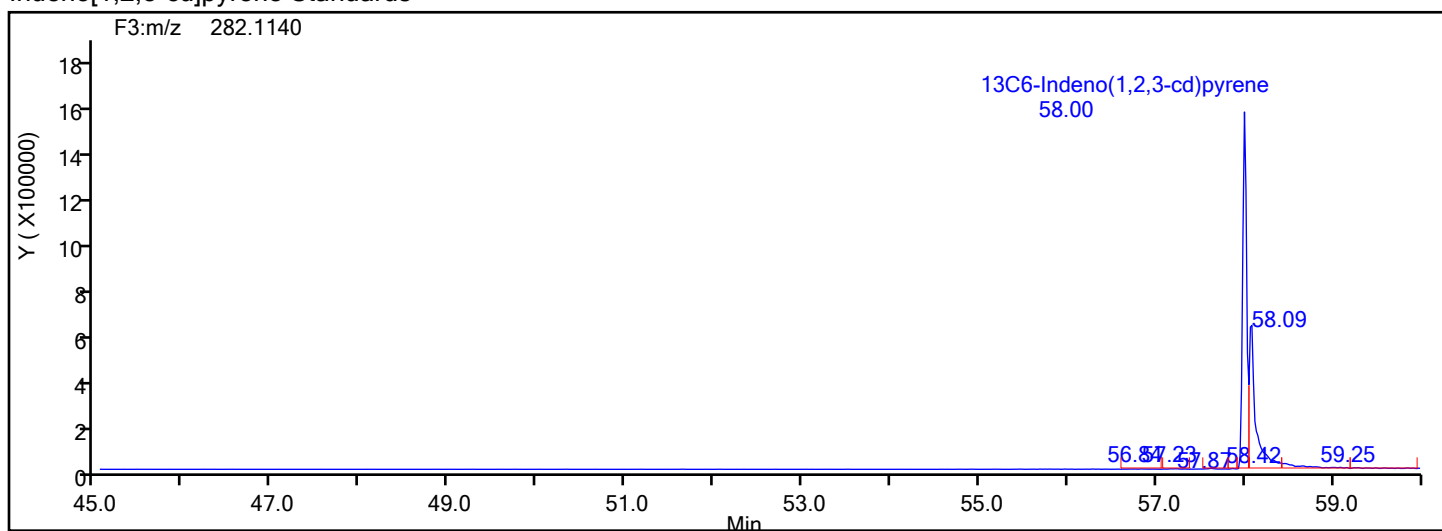
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

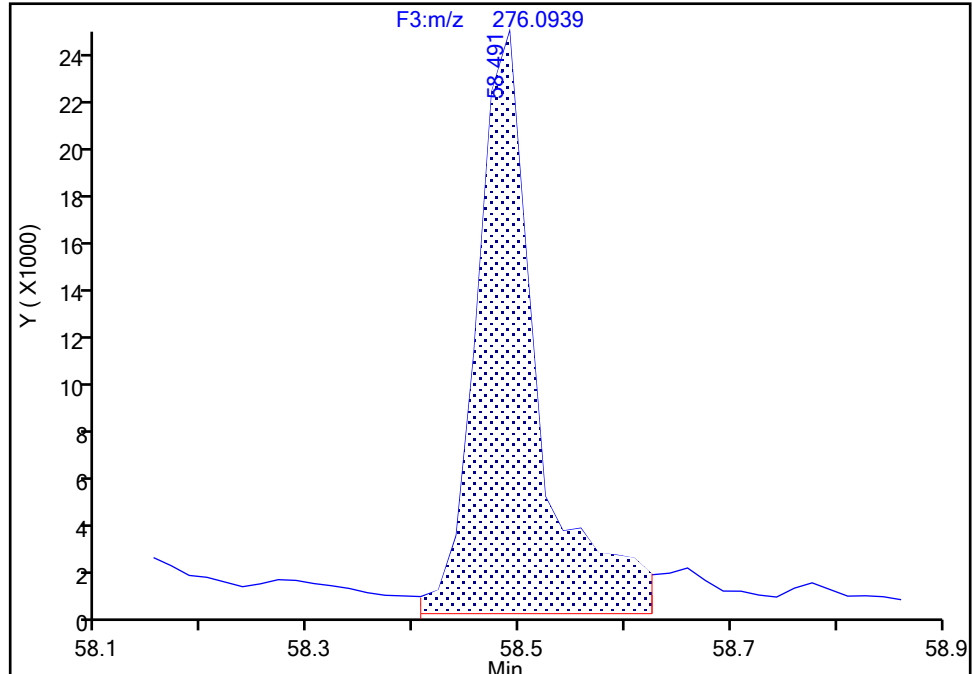
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Injection Date: 19-Jun-2024 16:34:00 Instrument ID: D3PAH
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

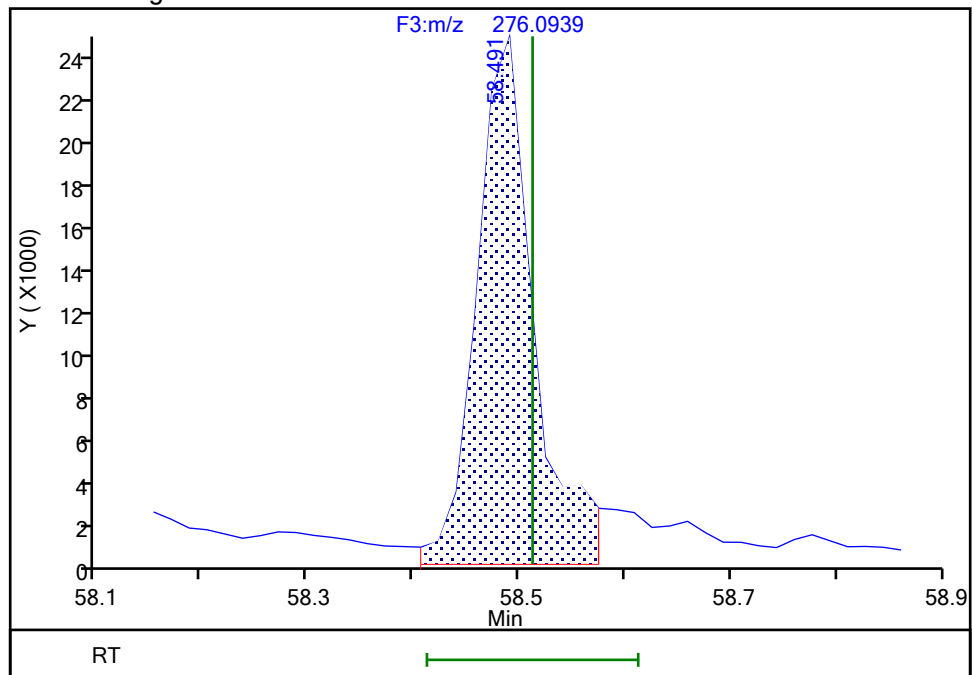
RT: 58.49
Area: 95023
Amount: 1.000000
Amount Units: pg/ul

Processing Integration Results



RT: 58.49
Area: 89871
Amount: 1.181423
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:14:20 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

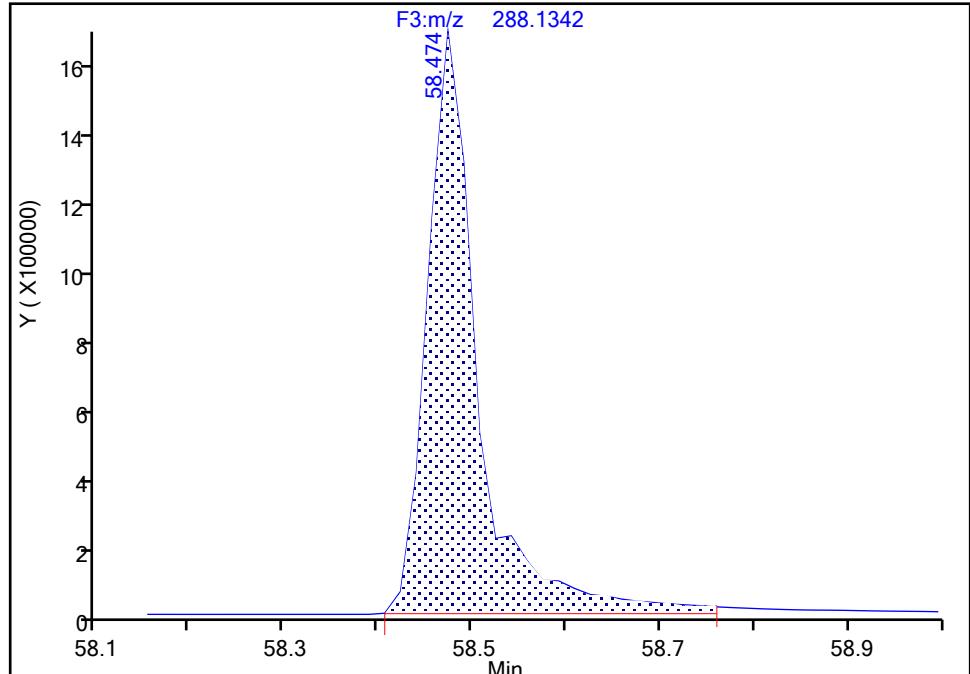
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Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

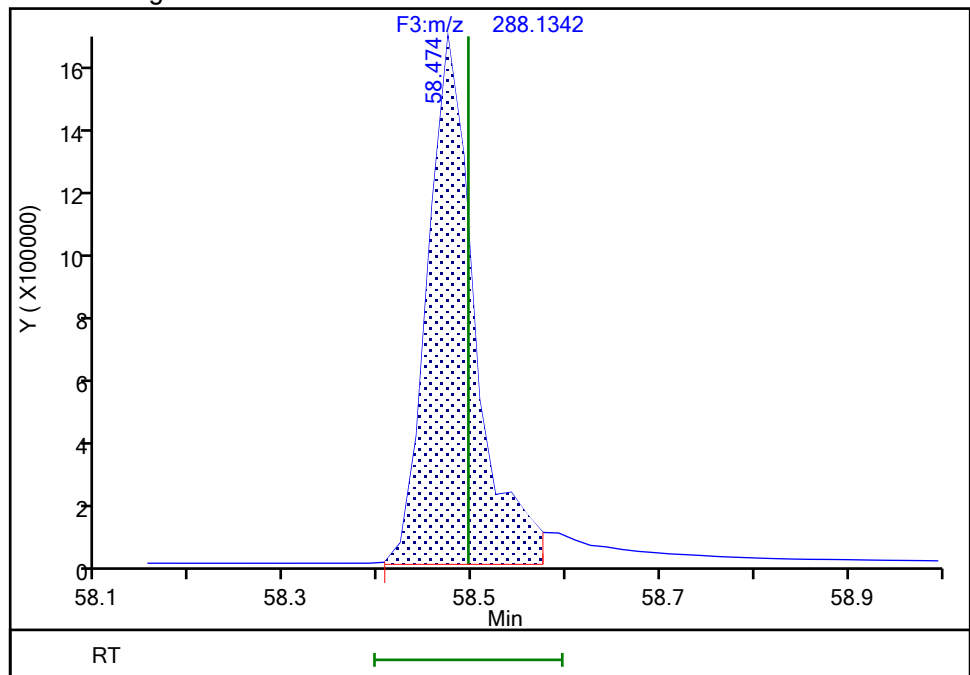
RT: 58.47
Area: 6416165
Amount: 100.0000
Amount Units: pg/ul

Processing Integration Results



RT: 58.47
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Amount: 91.841777
Amount Units: pg/ul

Manual Integration Results



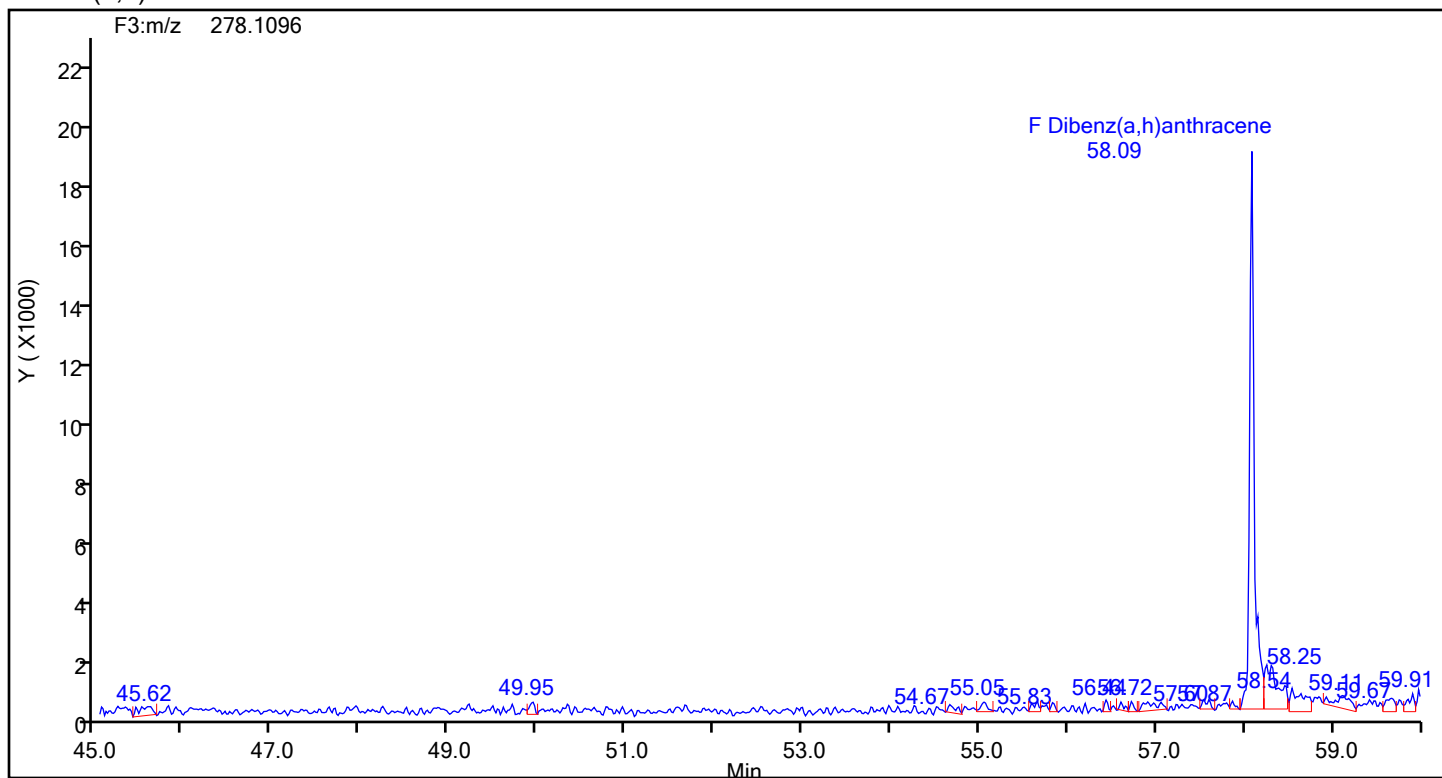
Reviewer: F9EE, 19-Jun-2024 18:14:36 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

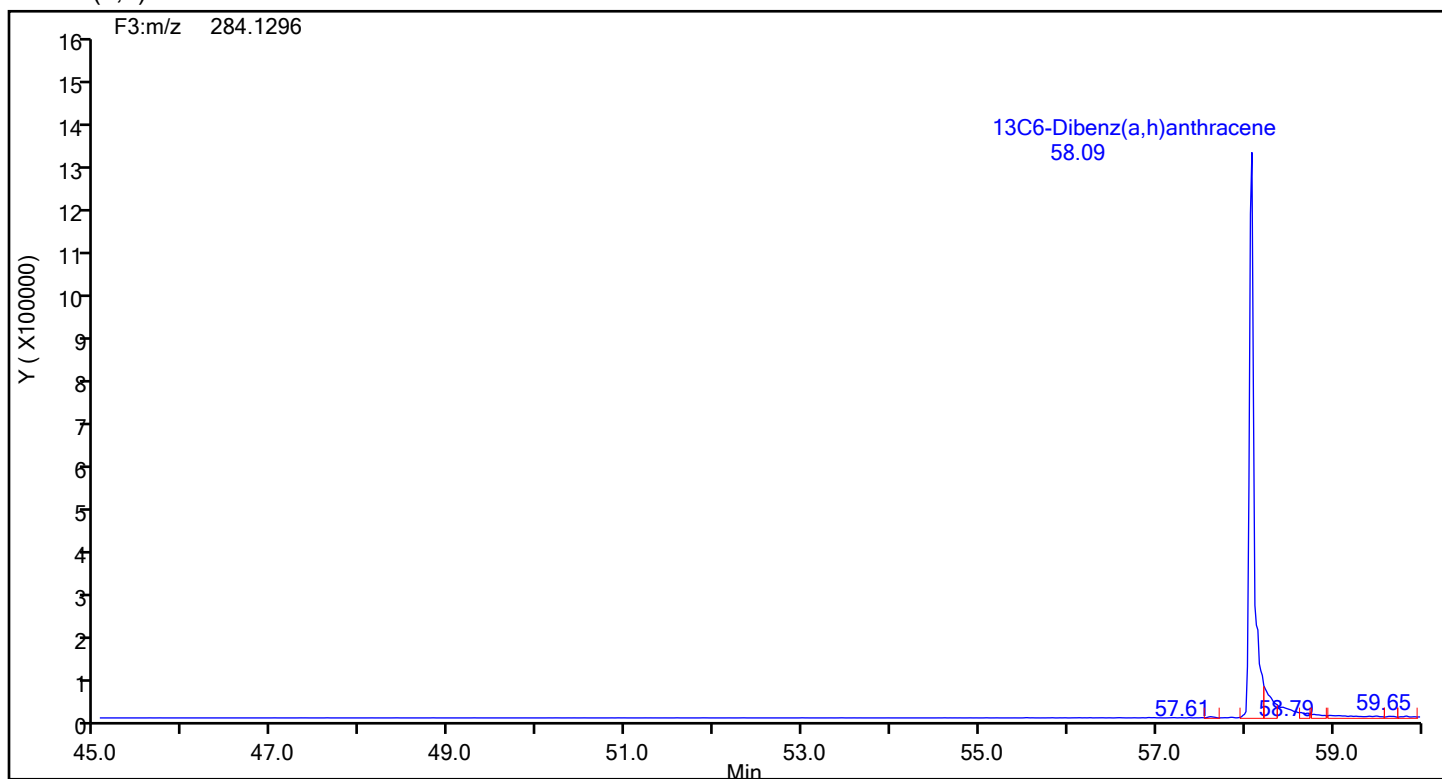
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

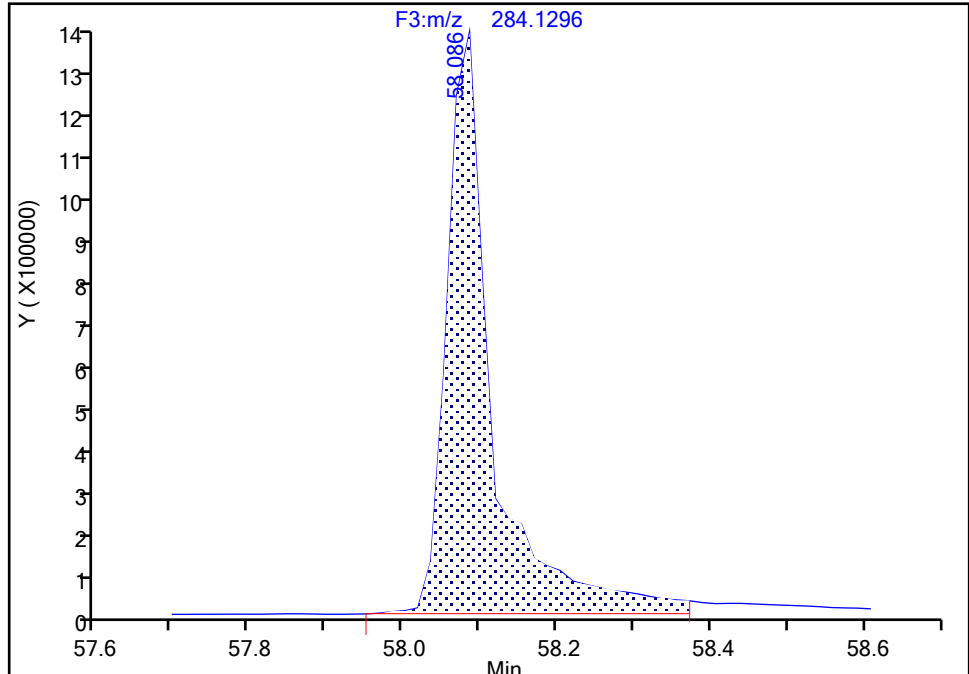
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Injection Date: 19-Jun-2024 16:34:00 Instrument ID: D3PAH
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

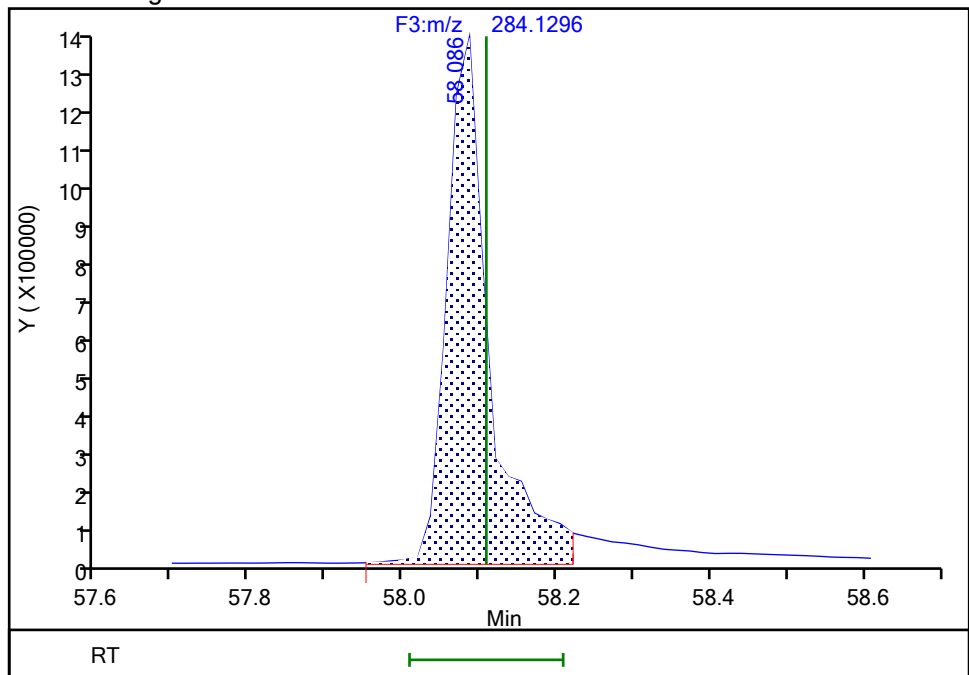
RT: 58.09
Area: 5487366
Amount: 100.0000
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
Area: 5080699
Amount: 95.134127
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:15:49 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Jun-2024 17:38:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-002
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:35 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last Ical File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 19-Jun-2024 18:50:35

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	10224350		3.3746	101.7	101.7	0.003634	0.003634	102	
Naphthalene	11:33	1289701		1.2893	9.784	9.784	0.0238	0.0238	489	
D 13C6-2-Methylnaphthalene	13:52	4888063		1.6031	102.4	102.4	0.000734	0.000734	102	
2-Methylnaphthalene	13:53	566769		1.2786	9.069	9.069	0.0258	0.0258	453	
D 13C6-Acenaphthylene	16:45	4790245		1.6520	97.3	97.3	0.002078	0.002078	97.34	
Acenaphthylene	16:45	133174		2.3661	2.014	2.014	0.0260	0.0260	101	
* Acenaphthene-d10	17:20	2978908		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:27	2794458		0.9792	95.8	95.8	0.002705	0.002705	95.80	
Acenaphthene	17:27	191300		1.2697	5.392	5.392	0.0282	0.0282	270	
D 13C6-Fluorene	19:45	2550369		0.8898	96.2	96.2	0.000551	0.000551	96.21	
Fluorene	19:45	116608		1.2532	3.649	3.649	0.0384	0.0384	182	
D 13C6-Phenanthrene	25:08	3753474		0.5724	92.4	92.4	0.001945	0.001945	92.38	
Phenanthrene	25:08	212656		1.1044	5.130	5.130	0.0373	0.0373	256	
\$ Anthracin-d10	25:21	2916395		0.4257	96.5	96.5	0.001743	0.001743	96.52	
D 13C6-Anthracene	25:28	2927417		0.4523	91.2	91.2	0.002461	0.002461	91.18	
Anthracene	25:28	91204		1.3586	2.293	2.293	0.0413	0.0413	115	
D 13C6-Fluoranthrene	33:53	7938309		1.1994	93.2	93.2	0.0223	0.0223	93.25	
Fluoranthene	33:54	290190		1.1513	3.175	3.175	0.0156	0.0156	159	
* Pyrene-d10	35:27	7097800		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:35	8994056		1.3512	93.8	93.8	0.0147	0.0147	93.78	
Pyrene	35:35	274746		1.0652	2.868	2.868	0.0156	0.0156	143	
\$ 13C6-Benzo(c)fluorene	39:18	3790719		0.5136	104.0	104.0	0.003612	0.003612	104	
D 13C6-Benzo(a)anthracene	46:08	7671524		1.5189	100.4	100.4	0.0158	0.0158	100	
Benzo[a]anthracene	46:08	162720		0.9739	2.178	2.178	0.0170	0.0170	109	
D 13C6-Chrysene	46:24	8190879		1.6287	100.0	100.0	0.0147	0.0147	100	
Chrysene	46:24	225899		0.9815	2.810	2.810	0.0162	0.0162	141	
D 13C6-Benzo(b)fluoranthene	54:40	6995957		1.4621	95.2	95.2	0.000890	0.000890	95.16	
Benzo[b]fluoranthene	54:40	246308		1.1249	3.130	3.130	0.0109	0.0109	156	
\$ 13C12-Benzo(j)fluoranthene	54:42	6569551		1.3558	96.4	96.4	0.0171	0.0171	96.36	
D 13C6-Benzo(k)fluoranthene	54:47	8172987		1.7507	92.8	92.8	0.000743	0.000743	92.85	
Benzo[k]fluoranthene	54:47	219658		1.1271	2.385	2.385	0.009644	0.009644	119	
* Benzo(e)pyrene-d12	55:30	5028172		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:35	7870944		1.6368	95.6	95.6	0.0115	0.0115	95.63	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	196775		1.0013	2.497	2.497	0.008899	0.008899	125	
Benzo[a]pyrene	55:44	178284		1.1130	2.174	2.174	0.009155	0.009155	109	
D 13C4-Benzo(a)pyrene	55:44	7368833		1.5508	94.5	94.5	0.0121	0.0121	94.50	
D Perylene-d12	55:54	5811383		1.1917	97.0	97.0	0.0176	0.0176	96.99	
Perylene	55:58	186178		1.4307	2.239	2.239	0.007678	0.007678	112	
D 13C6-Indeno(1,2,3-cd)pyrene	58:02	5418391		1.0218	105.5	105.5	0.0114	0.0114	105	M
Indeno[1,2,3-cd]pyrene	58:02	130664		1.1249	2.144	2.144	0.008694	0.008694	107	
D 13C6-Dibenz(a,h)anthracene	58:07	5414078		1.0553	102.0	102.0	0.005158	0.005158	102	M
Dibenz(a,h)anthracene	58:07	131743		1.1314	2.151	2.151	0.007222	0.007222	108	
D 13C12-Benzo(ghi)perylene	58:30	6532018		1.2749	101.9	101.9	0.005893	0.005893	102	M
Benzo[g,h,i]perylene	58:31	187407		1.2838	2.235	2.235	0.006936	0.006936	112	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS2_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Jun-2024 17:38:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-002
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:35 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 19-Jun-2024 18:50:35

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	0	0.667	10224350	3453826	50	125	69077		
Naphthalene											
128.0626	11:33	11:34	-1	1.000	1289701	411395	425	1062	968		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	0	0.800	4888063	2246421	5	12	449284		
2-Methylnaphthalene											
142.0783	13:53	13:53	0	1.001	566769	245185	296	740	828		
13C6-Acenaphthylene											
158.0828	16:45	16:45	0	0.967	4790245	1639631	14	35	117117		
Acenaphthylene											
152.0626	16:45	16:45	0	1.000	133174	47551	238	595	200		
Acenaphthene-d10											
164.1404	17:20	17:20	-1		2978908	1019441	1	2	1019441		
13C6-Acenaphthene											
160.0984	17:27	17:27	0	1.007	2794458	967942	11	27	87995		
Acenaphthene											
154.0783	17:27	17:27	0	1.000	191300	60528	139	347	435		
13C6-Fluorene											
172.0984	19:45	19:45	0	1.140	2550369	737805	2	5	368903		
Fluorene											
166.0783	19:45	19:45	0	1.000	116608	34760	142	355	245		
13C6-Phenanthrene											
184.0984	25:08	25:08	0	0.709	3753474	874310	6	15	145718		
Phenanthrene											
178.0783	25:08	25:08	0	1.000	212656	49863	144	360	346		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:21	25:21	0	0.715	2916395	679015	4	10	169754		
13C6-Anthracene											
184.0984	25:28	25:28	0	0.718	2927417	641240	6	15	106873		
Anthracene											
178.0783	25:28	25:28	0	1.000	91204	20584	144	360	143		
13C6-Fluoranthrene											
208.0984	33:53	33:54	-1	0.956	7938309	1512092	144	360	10501		
Fluoranthene											
202.0783	33:54	33:54	0	1.000	290190	55341	109	272	508		
Pyrene-d10											
212.1404	35:27	35:27	0		7097800	1347492	10	25	134749		
13C3-Pyrene											
205.0883	35:35	35:35	0	1.004	8994056	1637719	107	267	15306		
Pyrene											
202.0783	35:35	35:35	0	1.000	274746	51021	109	272	468		
13C6-Benzo(c)fluorene											
222.1134	39:18	39:18	0	0.708	3790719	700534	10	25	70053		
13C6-Benzo(a)anthracene											
234.1140	46:08	46:07	0	1.301	7671524	1301970	162	405	8037		
Benzo[a]anthracene											
228.0939	46:08	46:07	0	1.000	162720	26859	86	215	312		
13C6-Chrysene											
234.1140	46:24	46:24	0	1.309	8190879	1355570	162	405	8368		
Chrysene											
228.0939	46:24	46:25	-1	1.000	225899	38492	86	215	448		
13C6-Benzo(b)fluoranthene											
258.1140	54:40	54:40	0	0.985	6995957	1815225	9	22	201692		
Benzo[b]fluoranthene											
252.0939	54:40	54:40	0	1.000	246308	66968	89	222	752		
13C12-Benzo(j)fluoranthene											
264.1336	54:42	54:42	0	0.985	6569551	1634529	157	392	10411		
13C6-Benzo(k)fluoranthene											
258.1140	54:47	54:47	0	0.987	8172987	2042470	9	22	226941		
Benzo[k]fluoranthene											
252.0939	54:47	54:47	0	1.000	219658	52976	89	222	595		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	0		5028172	1690356	142	355	11904		
13C4-Benzo(e)pyrene											
256.1073	55:35	55:35	0	1.002	7870944	2491423	127	317	19618		
Benzo[e]pyrene											
252.0939	55:35	55:35	0	1.000	196775	66245	89	222	744		
Benzo[a]pyrene											
252.0939	55:44	55:44	0	1.000	178284	53714	89	222	604		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:44	55:44	0	1.004	7368833	2178757	127	317	17156		
Perylene-d12											
264.1692	55:54	55:54	0	1.007	5811383	2020986	142	355	14232		
Perylene											
252.0939	55:58	55:58	0	1.001	186178	59542	89	222	669		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:02	58:02	0	1.046	5418391	1635908	79	197	20708		M
Indeno[1,2,3-cd]pyrene											
276.0939	58:02	58:03	-1	1.000	130664	41002	64	160	641		
13C6-Dibenz(a,h)anthracene											
284.1296	58:07	58:07	0	1.047	5414078	1370824	37	92	37049		M
Dibenz(a,h)anthracene											
278.1096	58:07	58:07	0	1.000	131743	34780	45	112	773		
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	6532018	1796950	51	127	35234		M
Benzo[g,h,i]perylene											
276.0939	58:31	58:31	0	1.000	187407	47113	64	160	736		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS2_00002

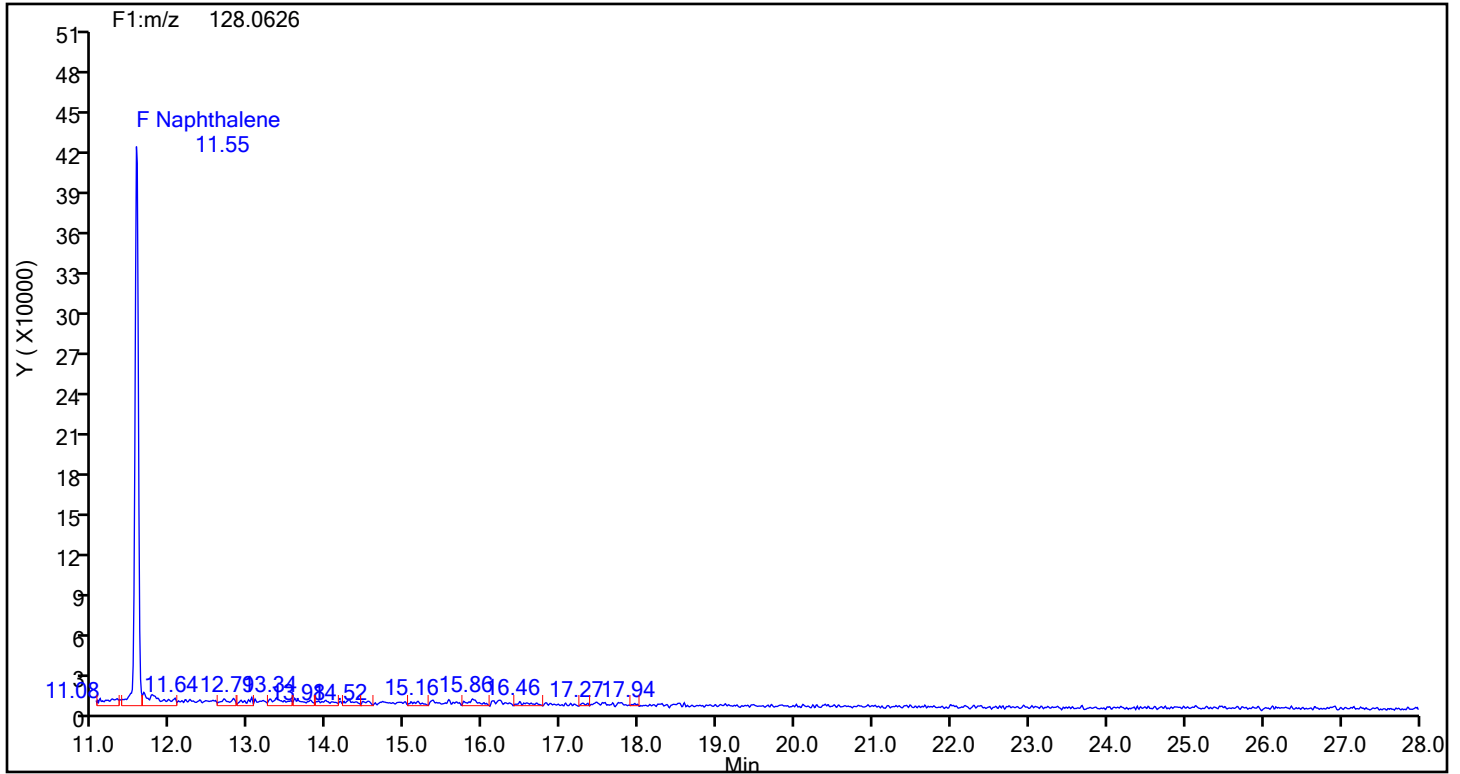
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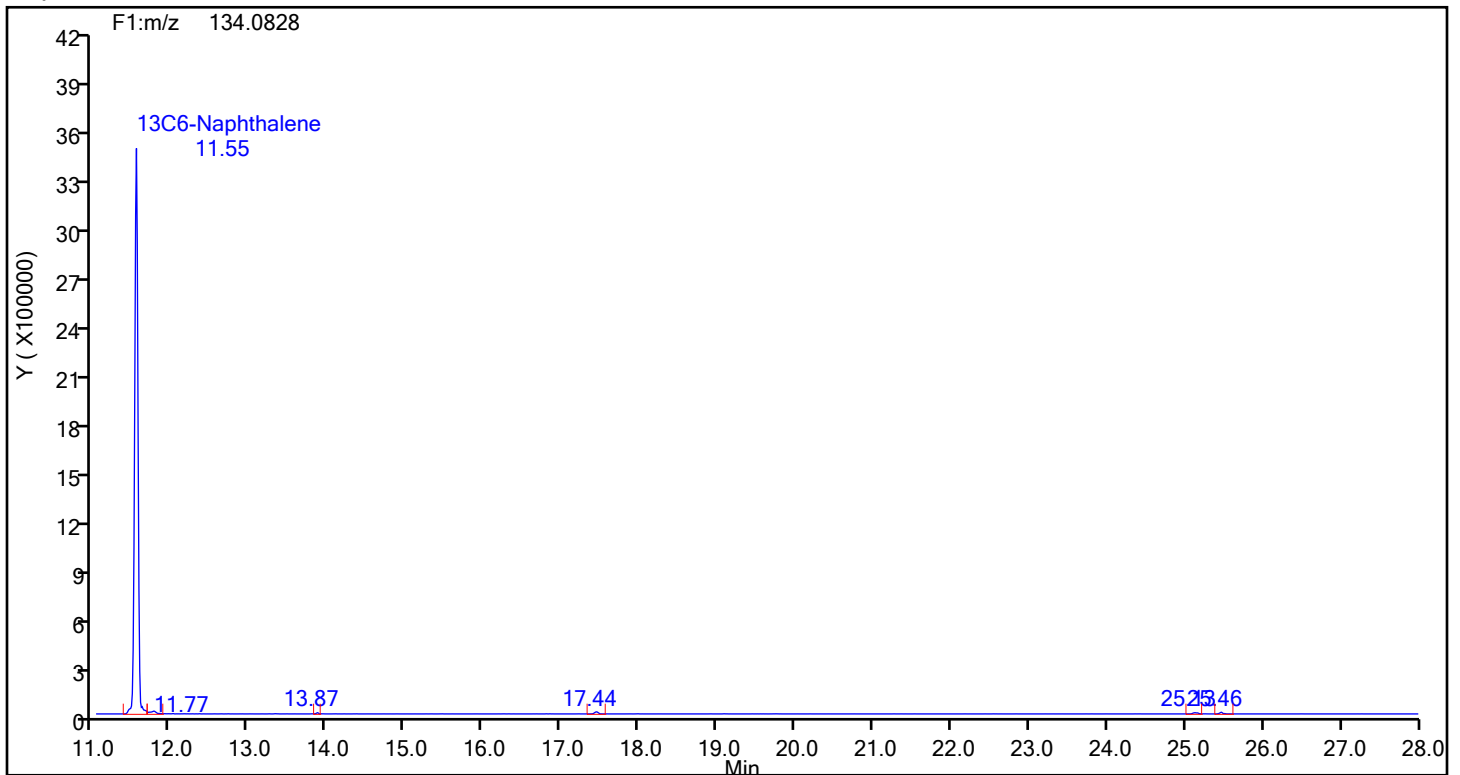
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 2
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



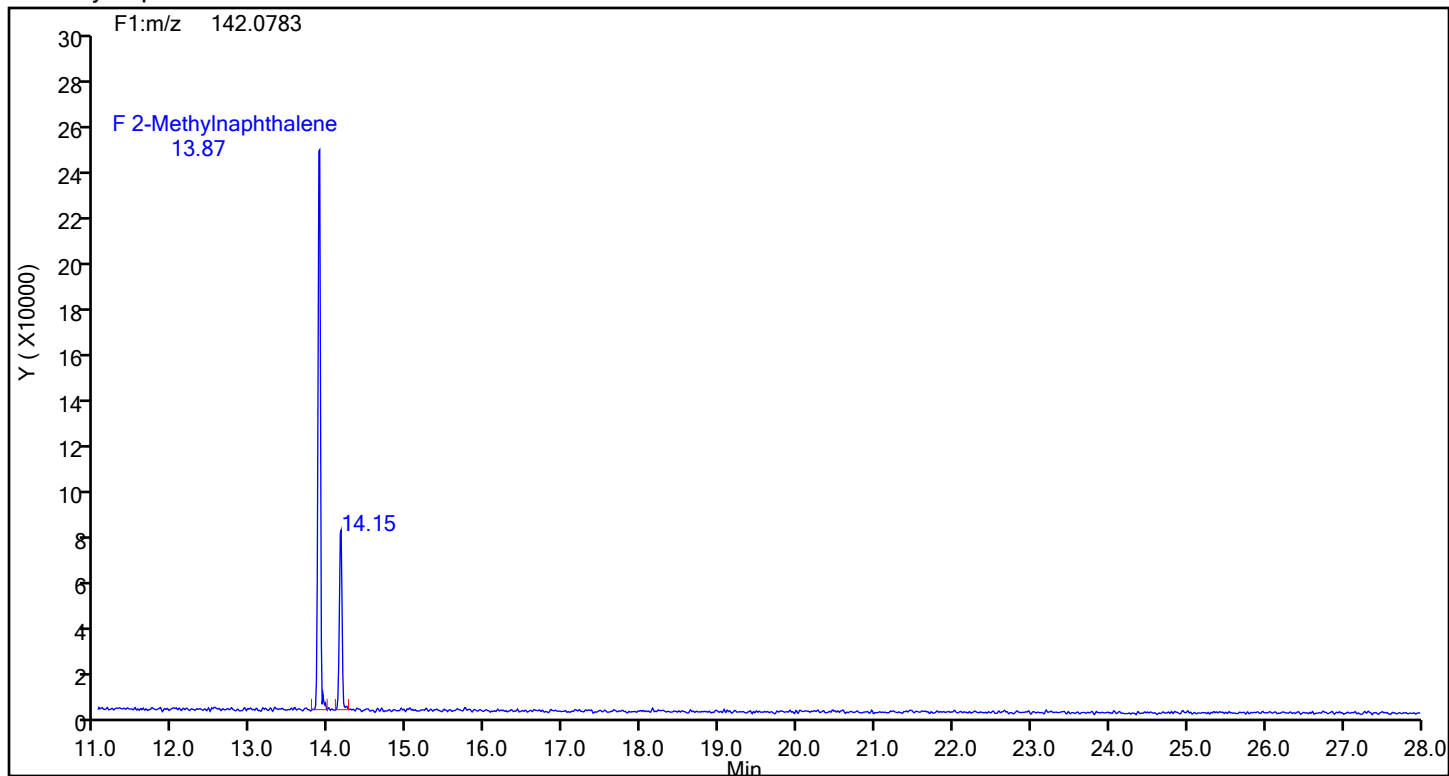
Naphthalene Standards



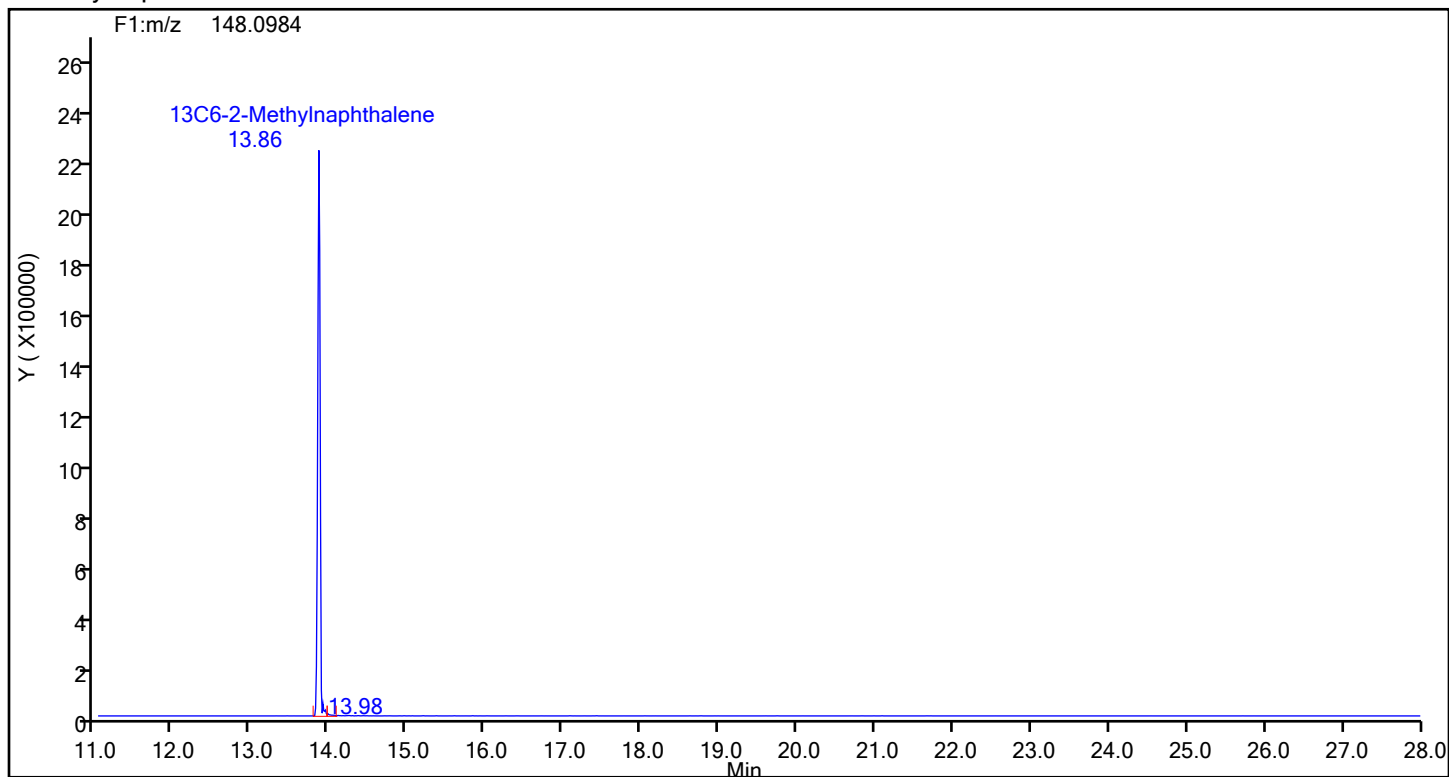
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



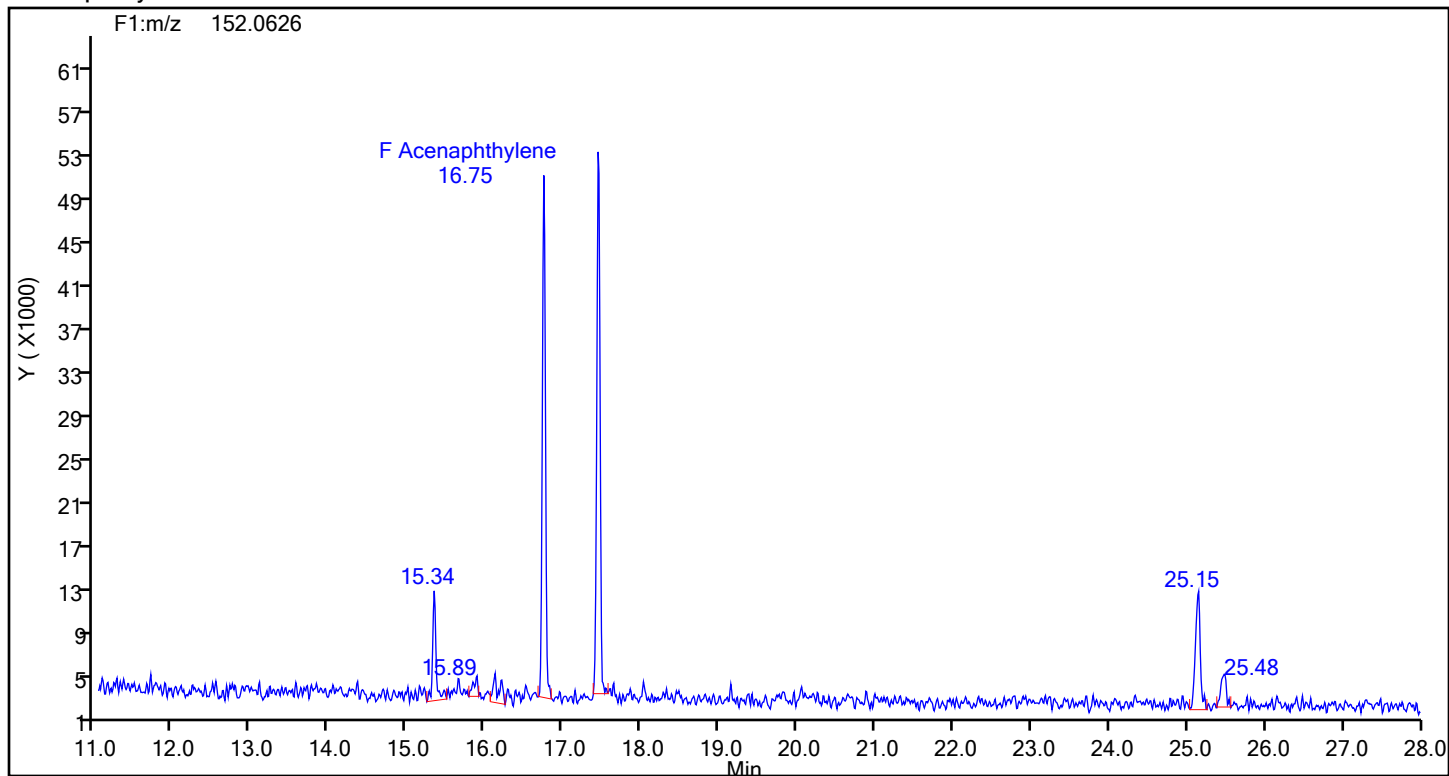
2-Methylnaphthalene Standards



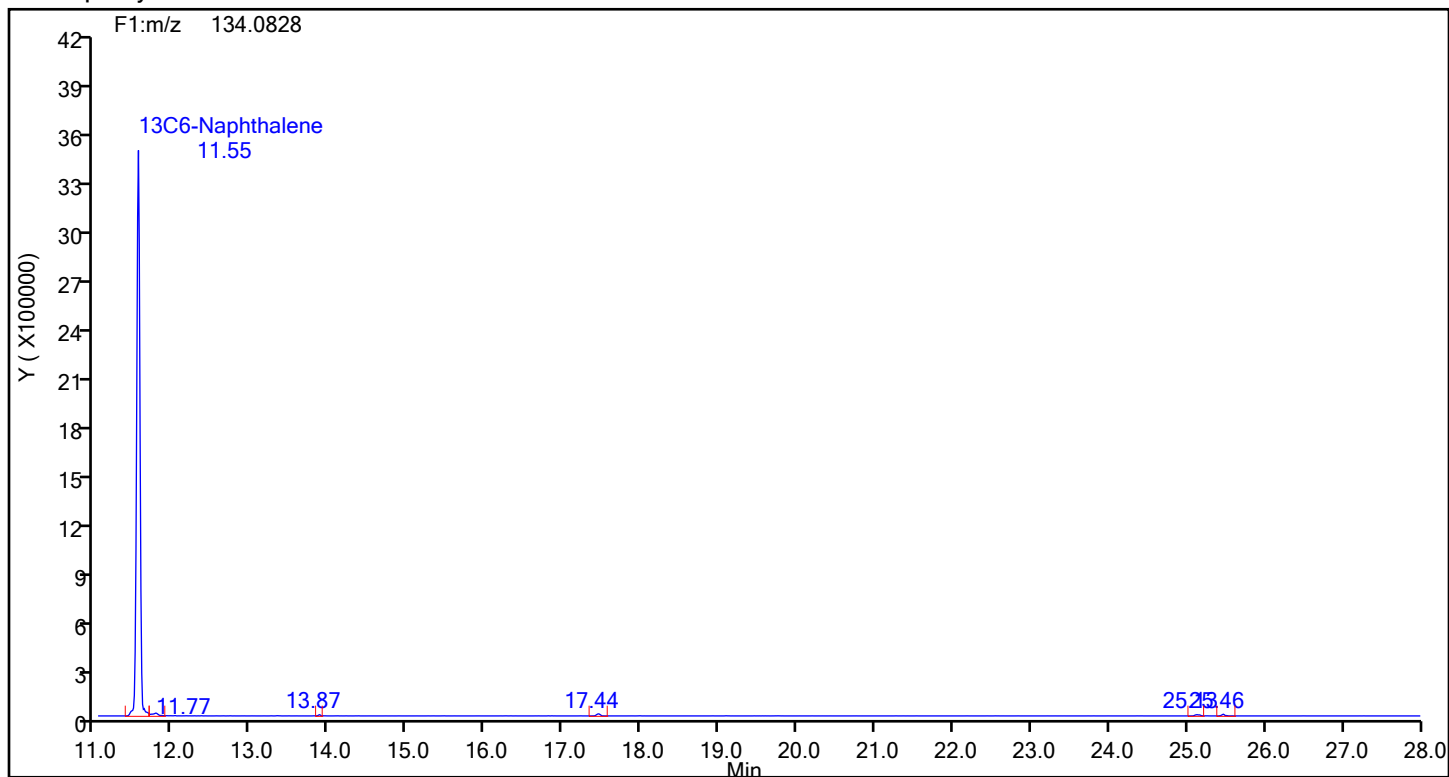
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Client ID:
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Acenaphthylene



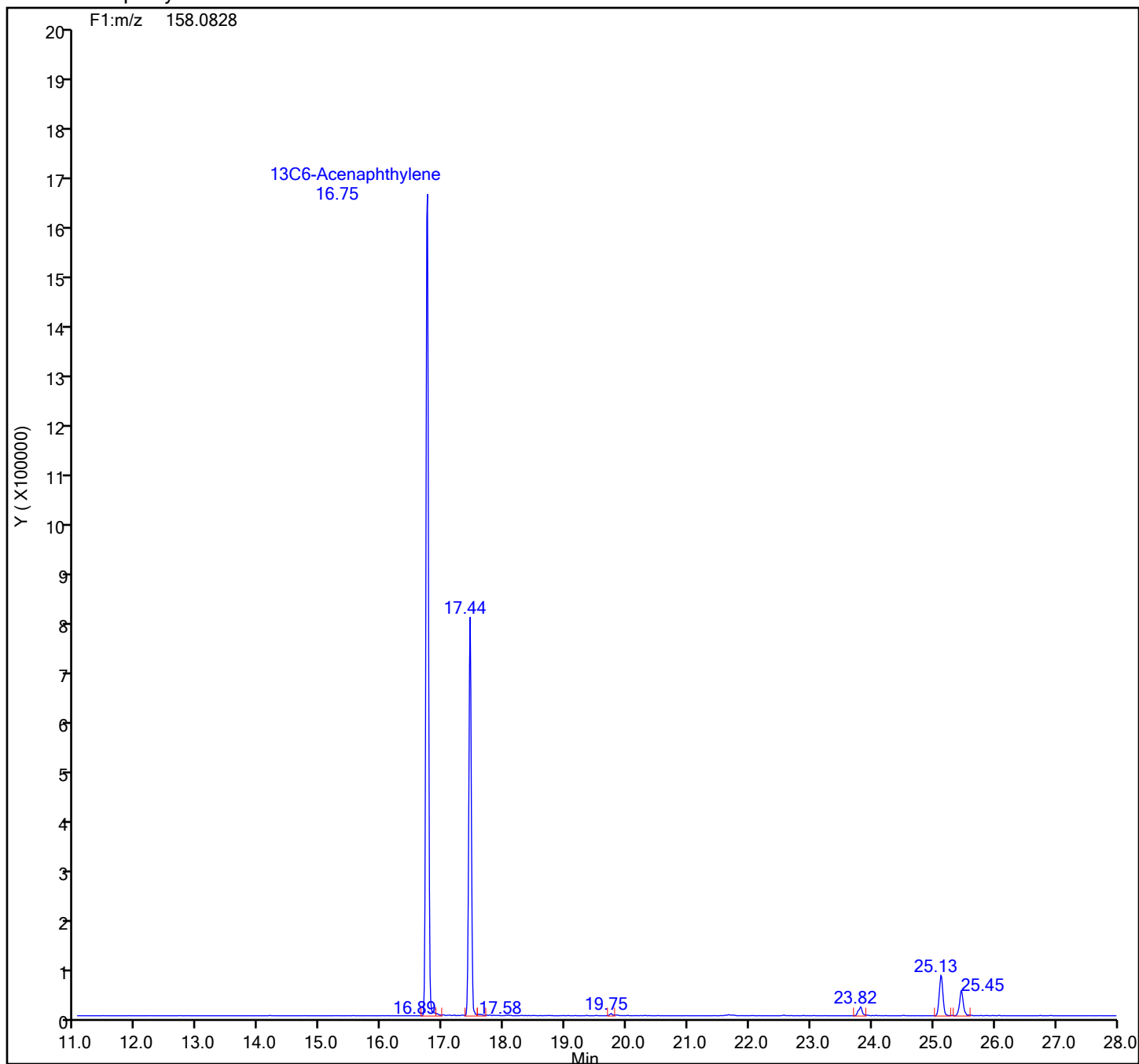
Acenaphthylene Standards



Eurofins Knoxville

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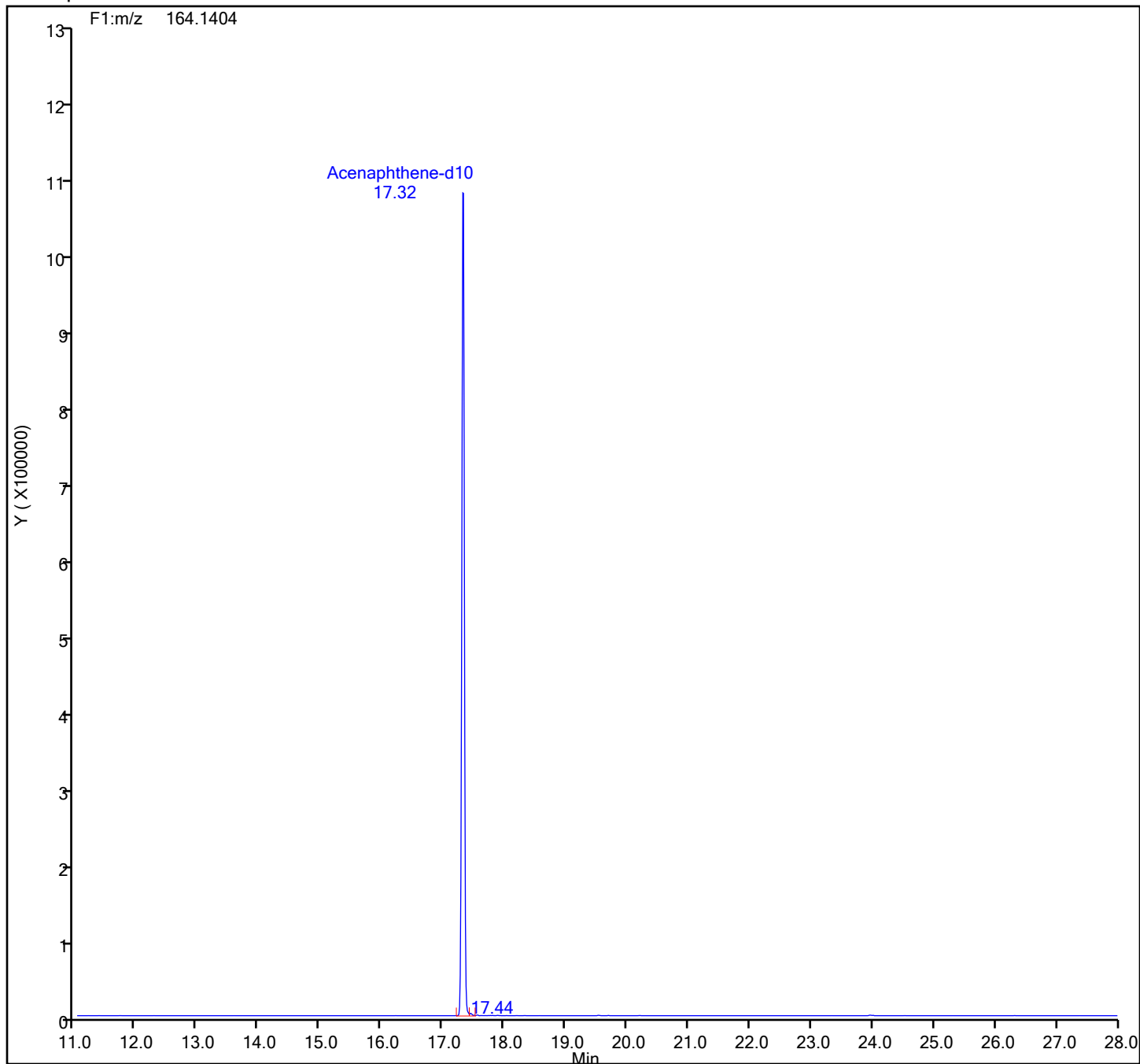
13C6-Acenaphthylene Standards



Eurofins Knoxville

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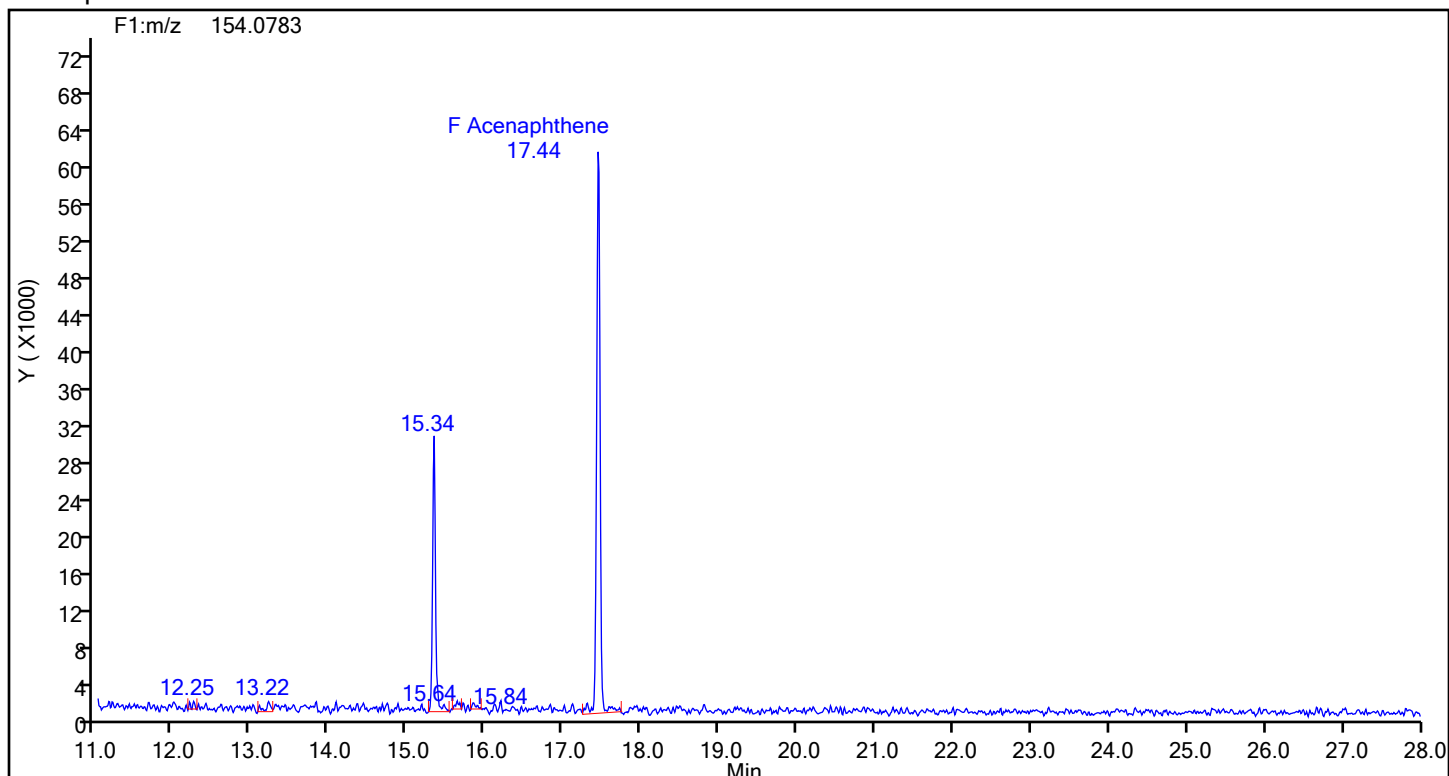
Acenaphthene-d10 Standards



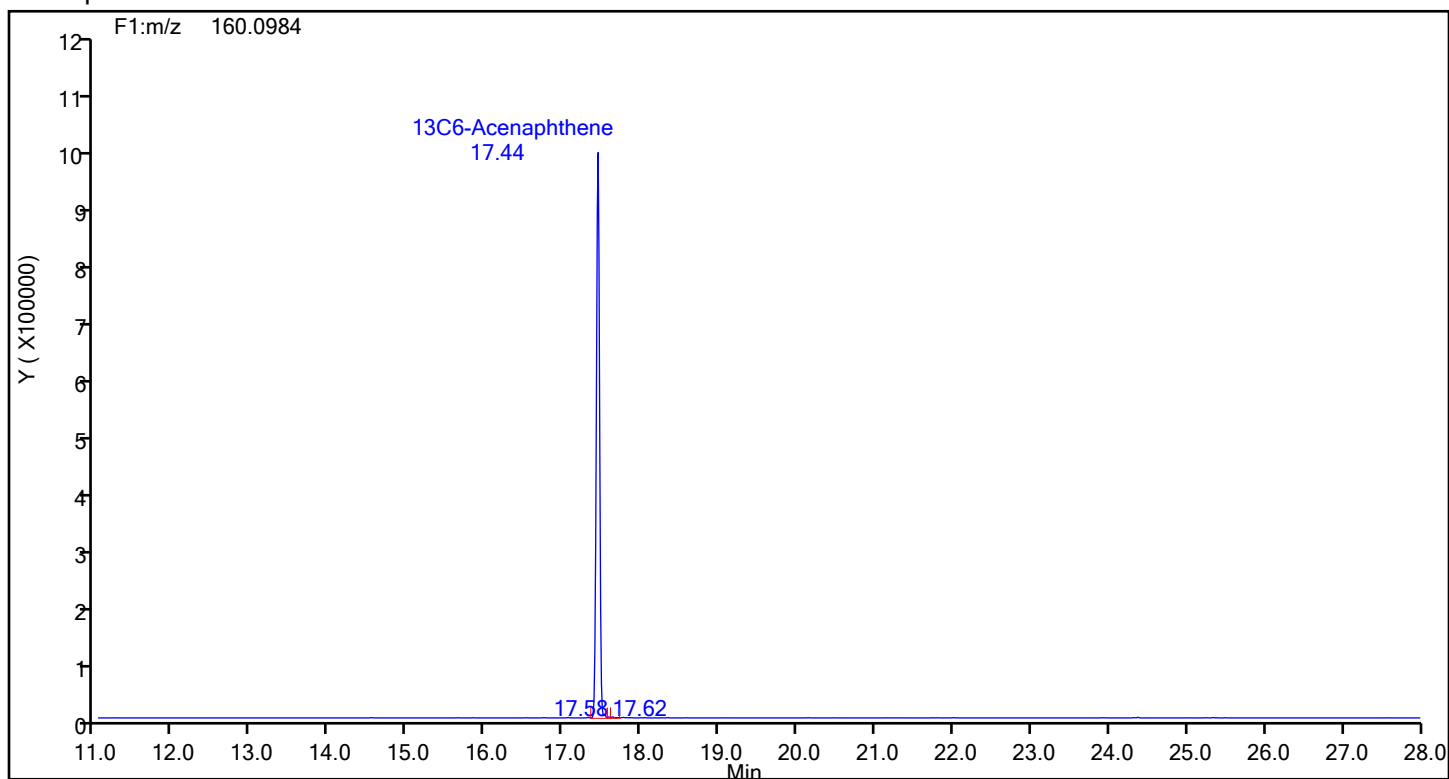
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Acenaphthene



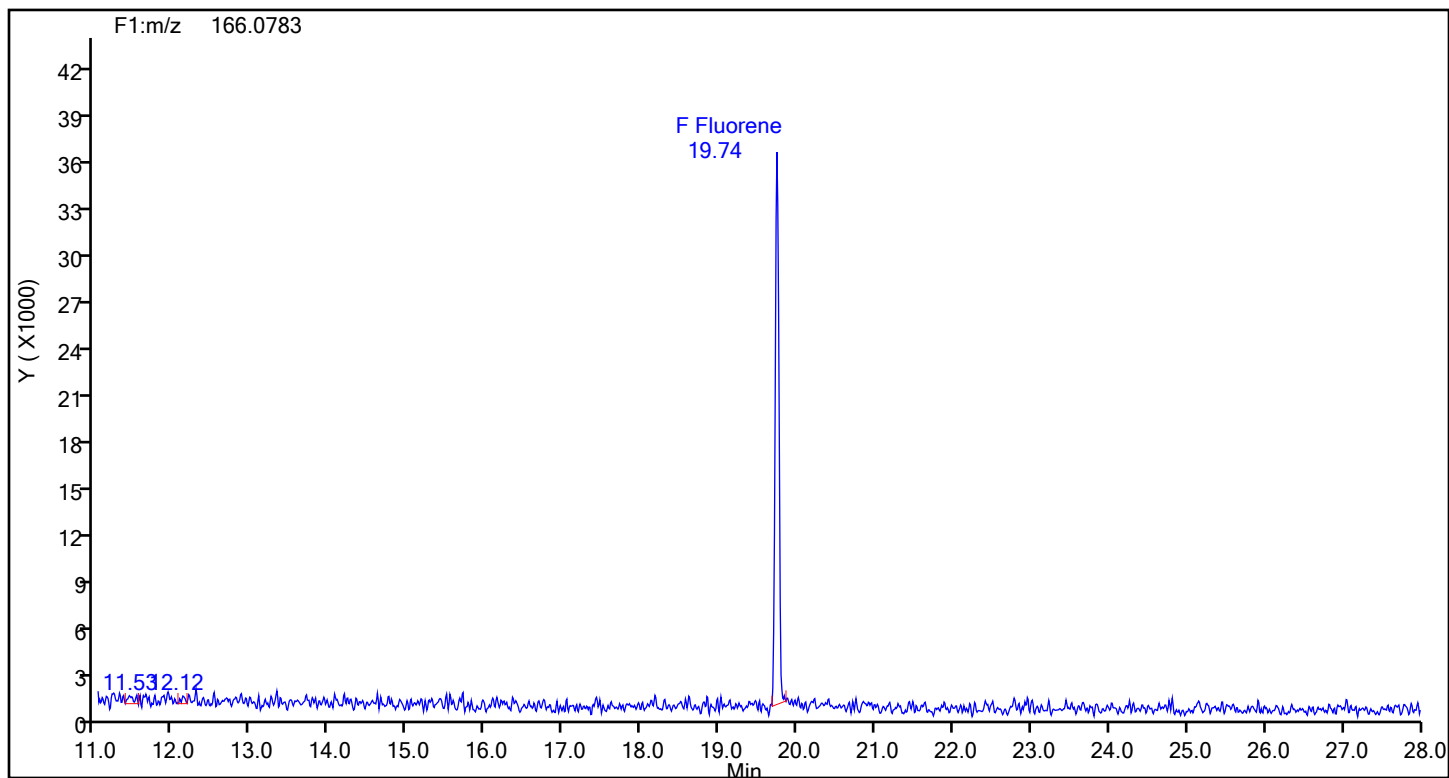
Acenaphthene Standards



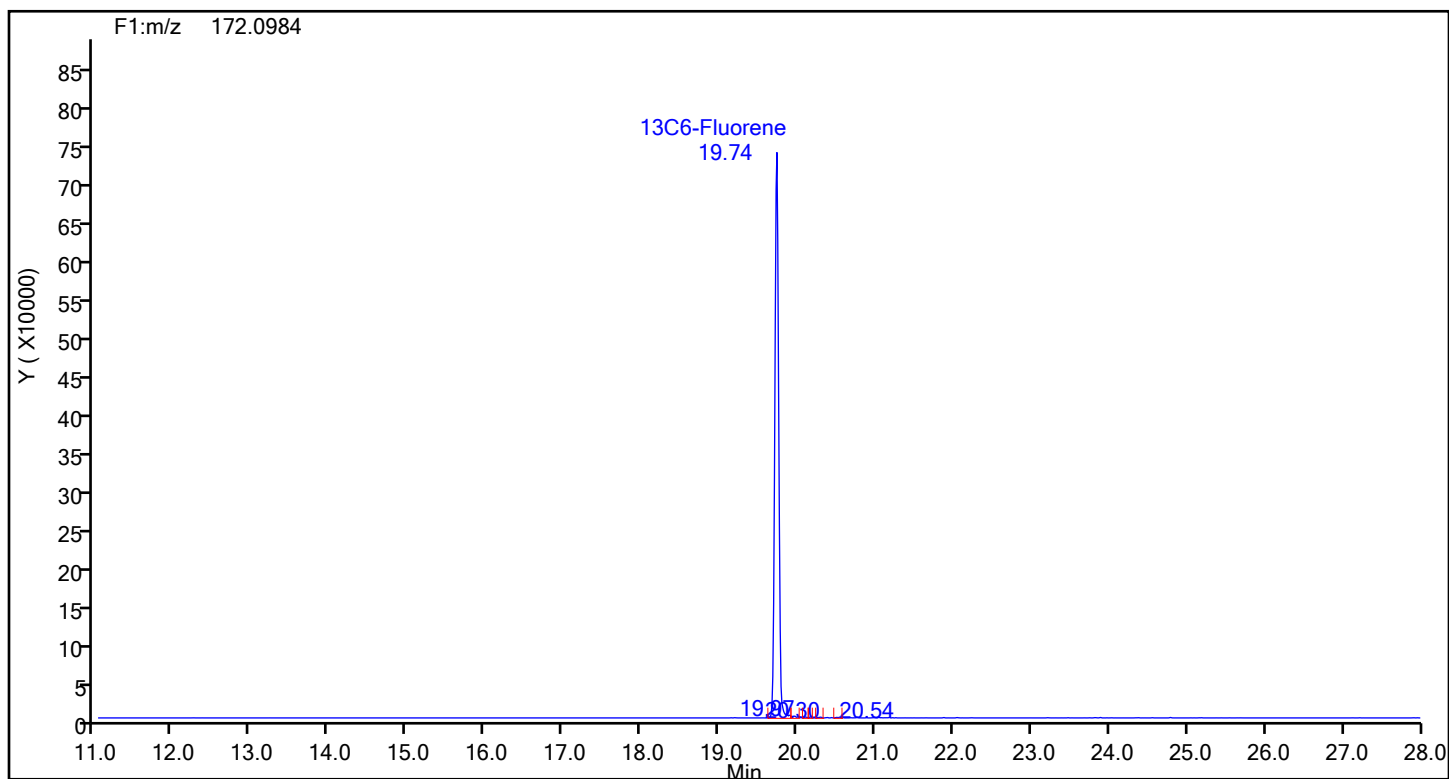
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Fluorene

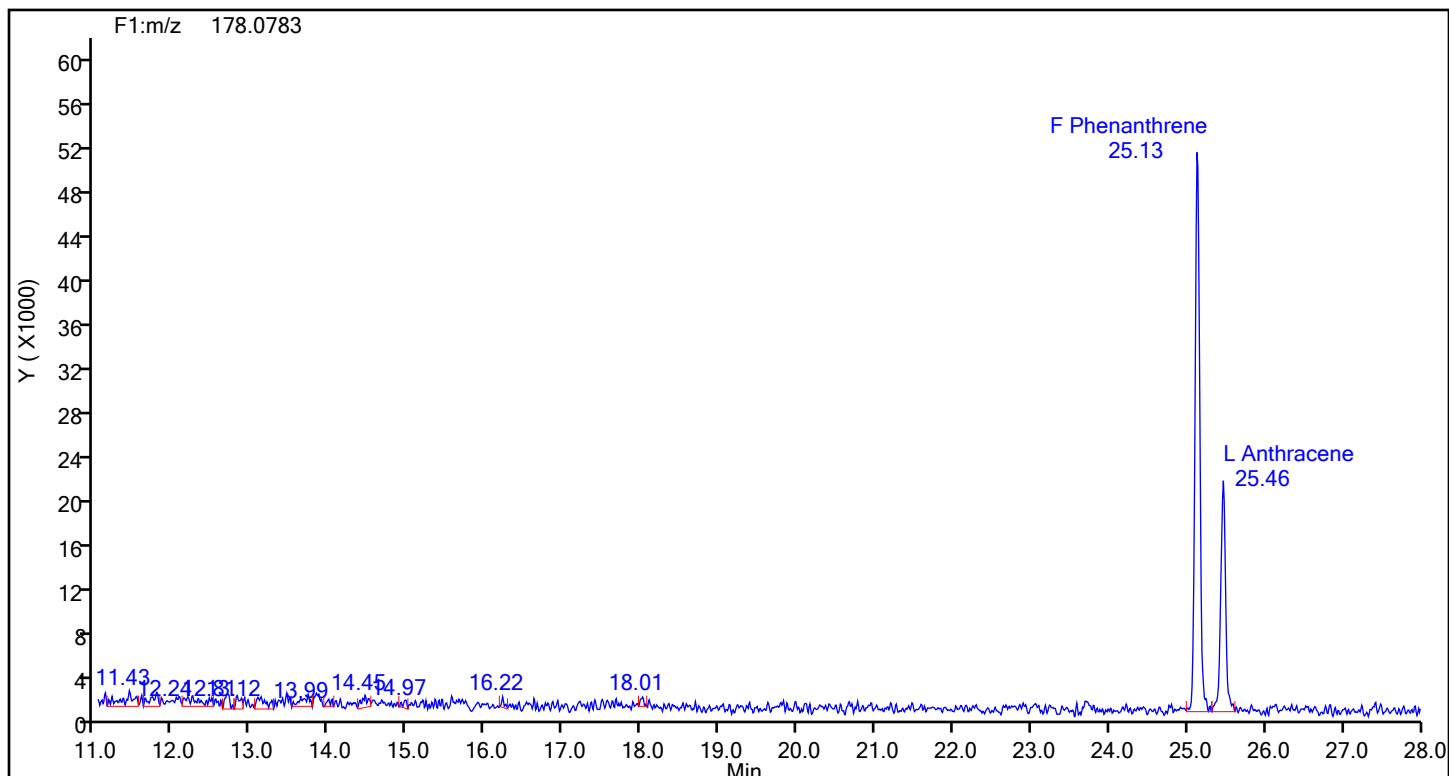


Fluorene Standards

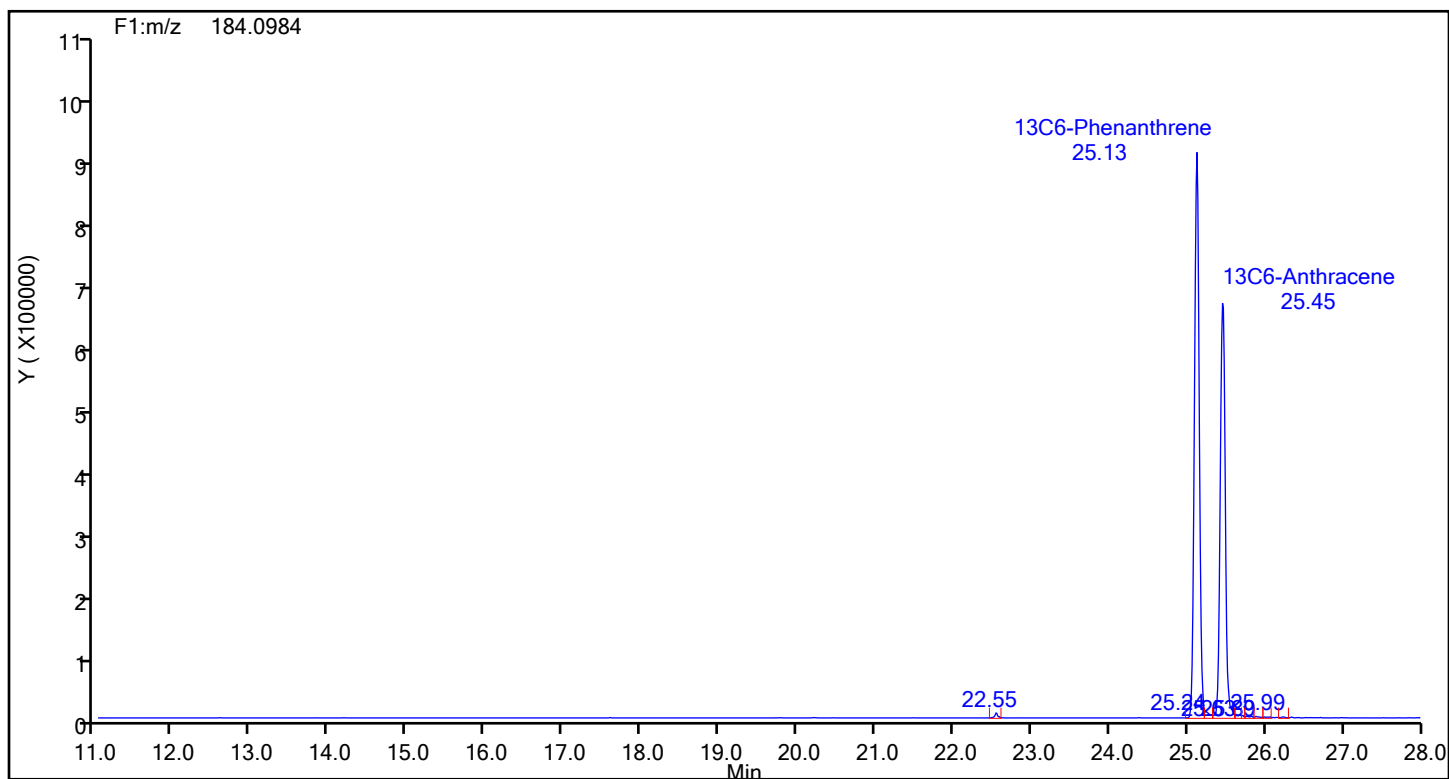


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Phenanthrene

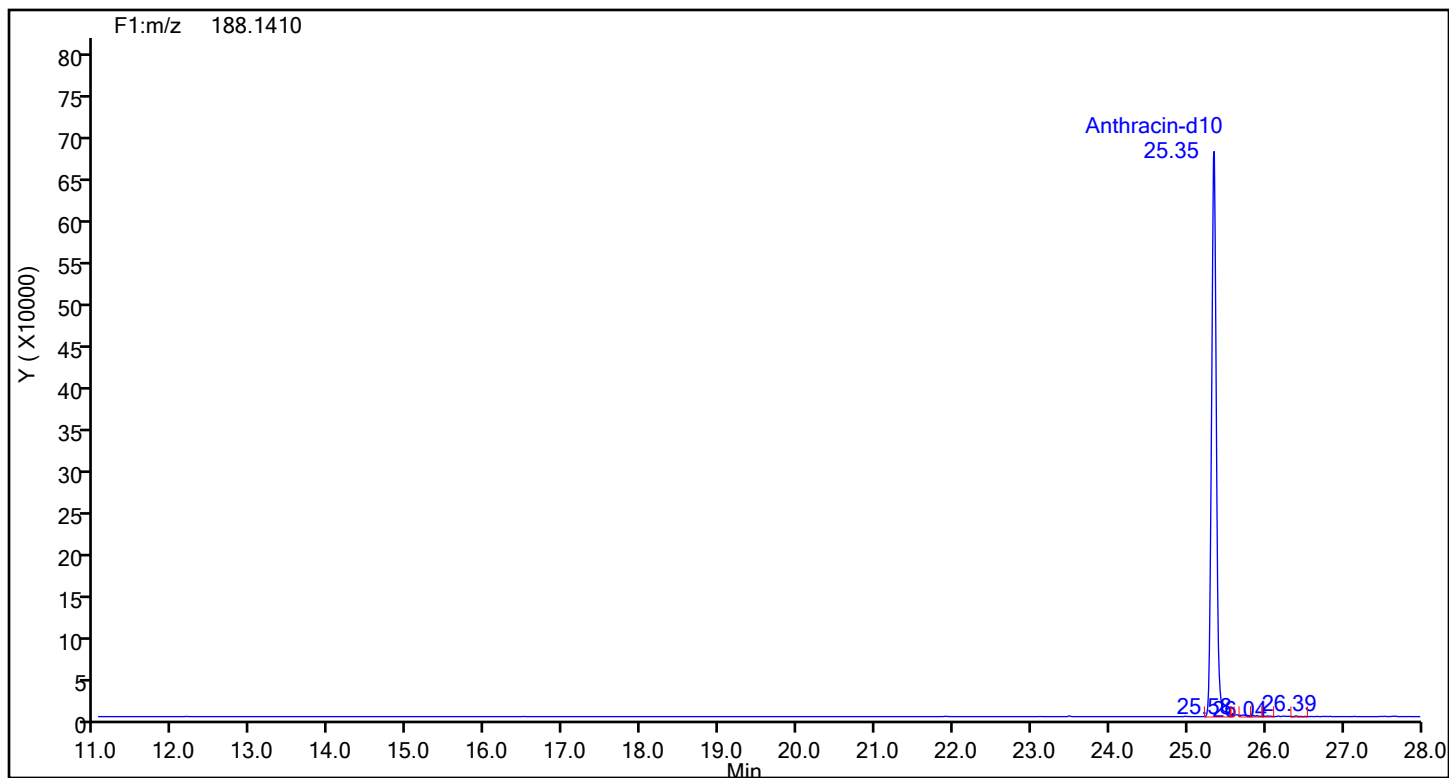


Phenanthrene Standards

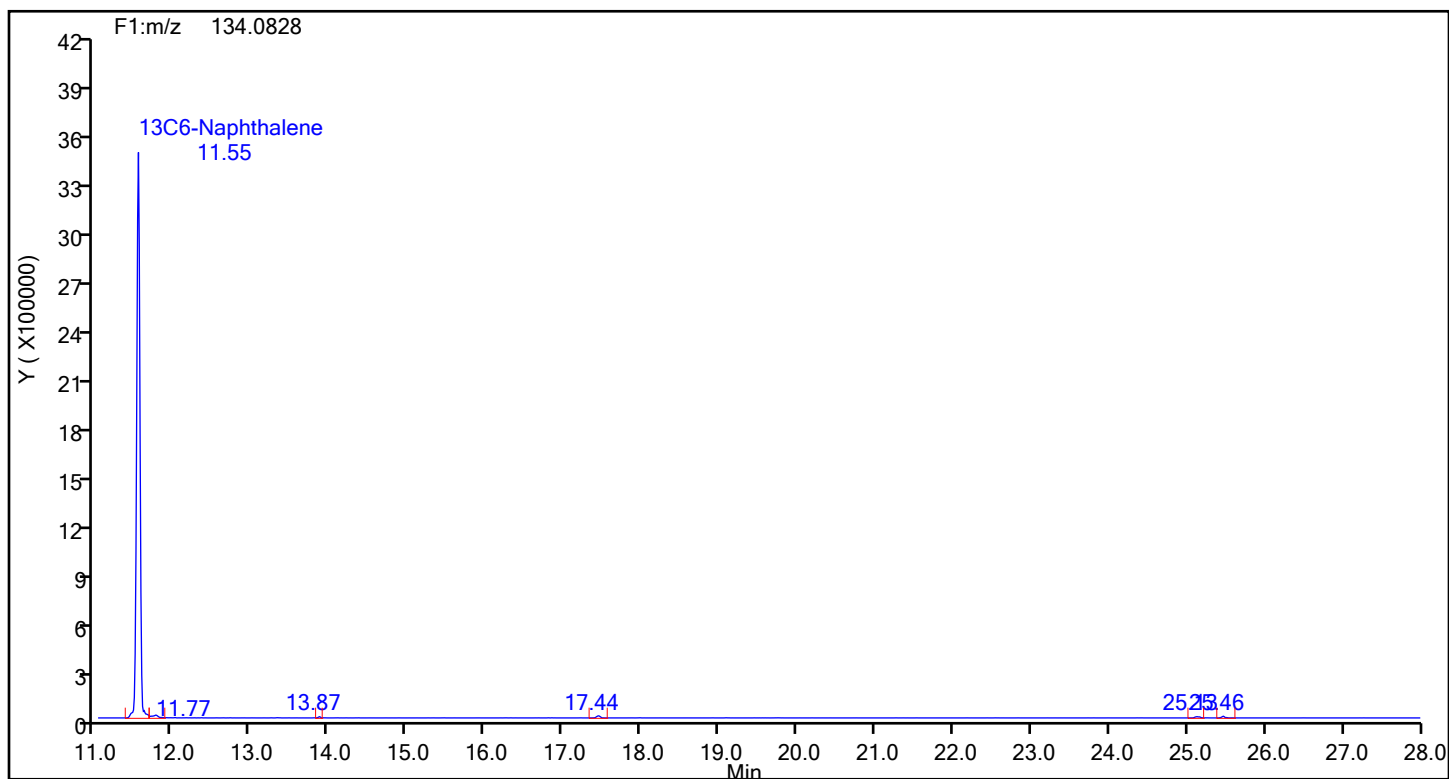


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Anthracin-d10

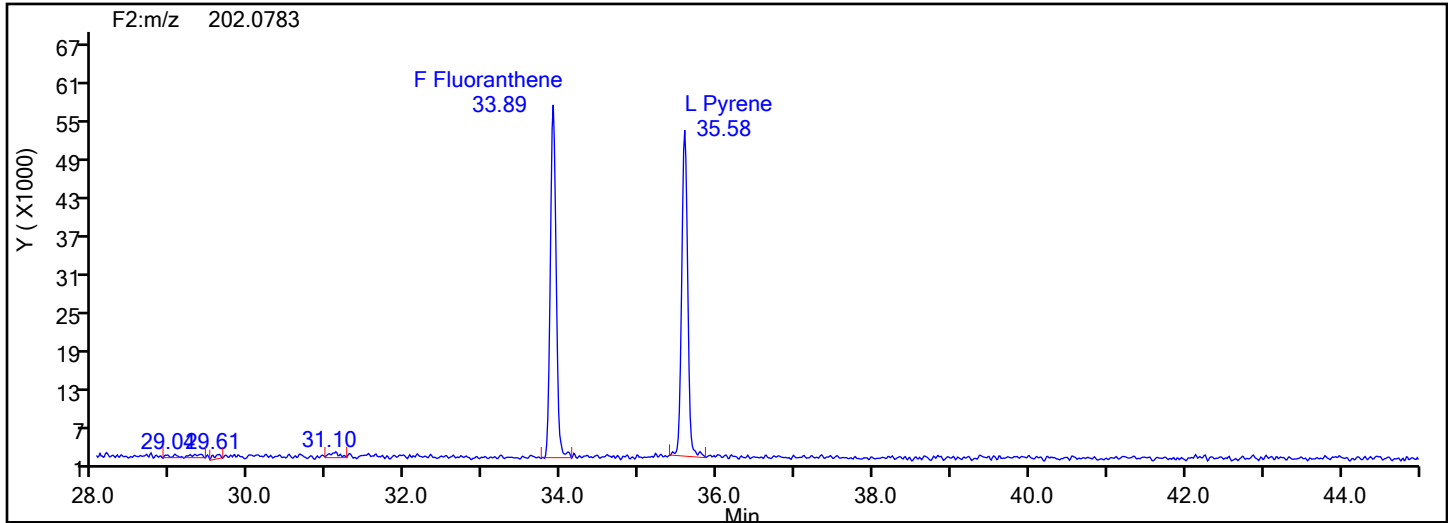


Anthracin-d10 Standards

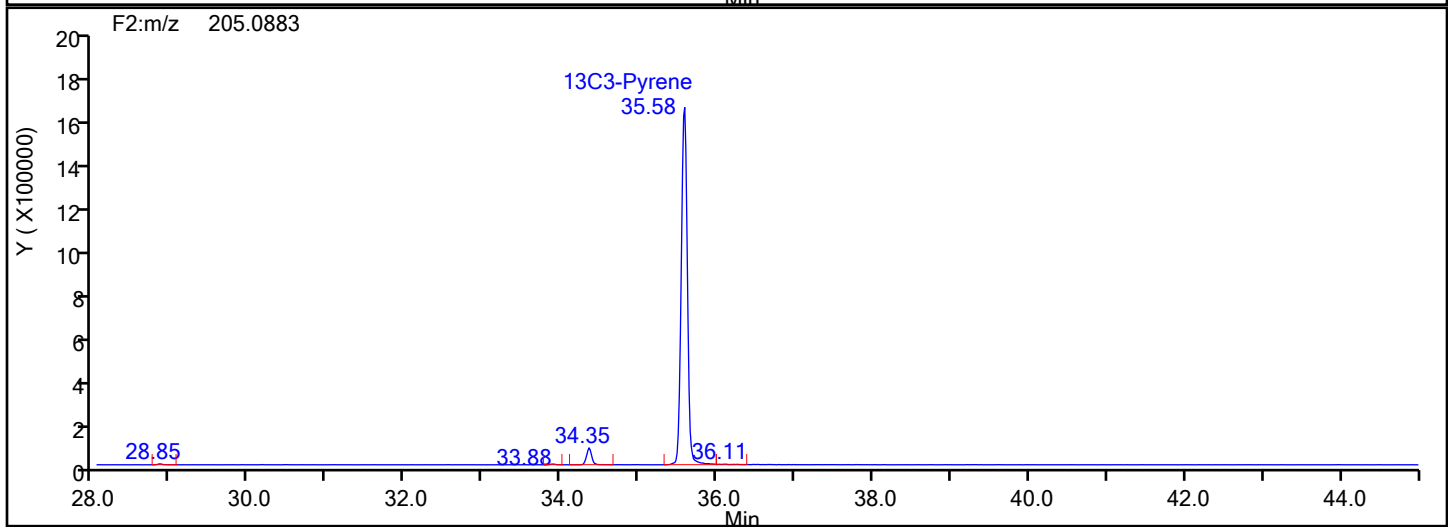
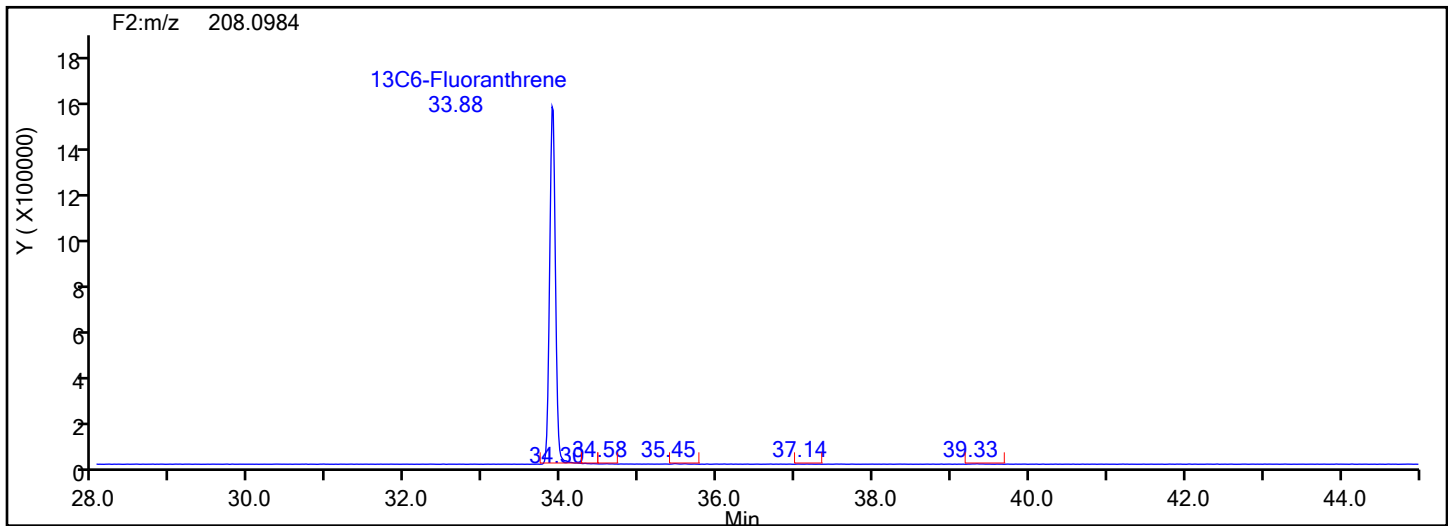


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Fluoranthene



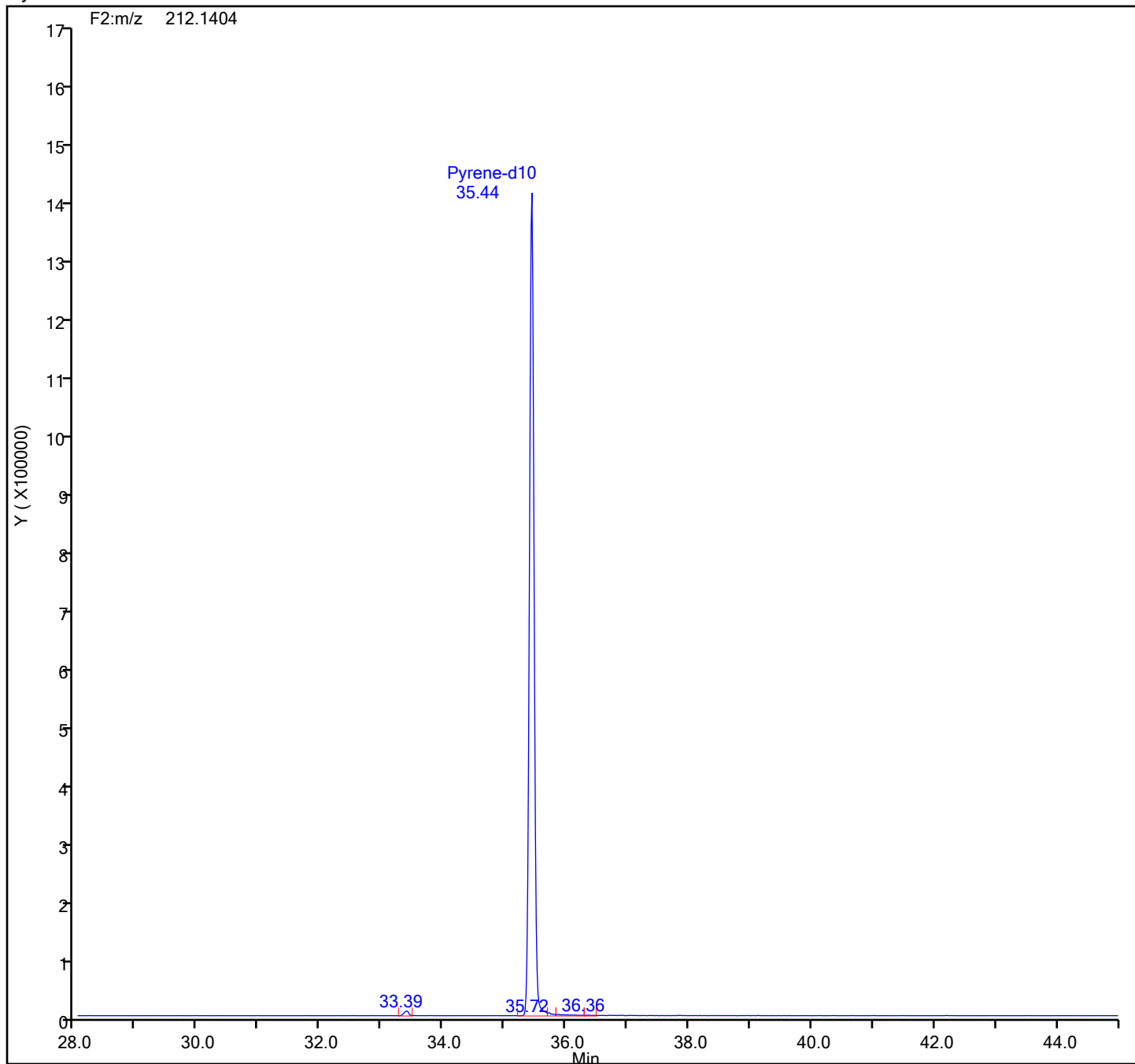
Fluoranthene Standards



Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

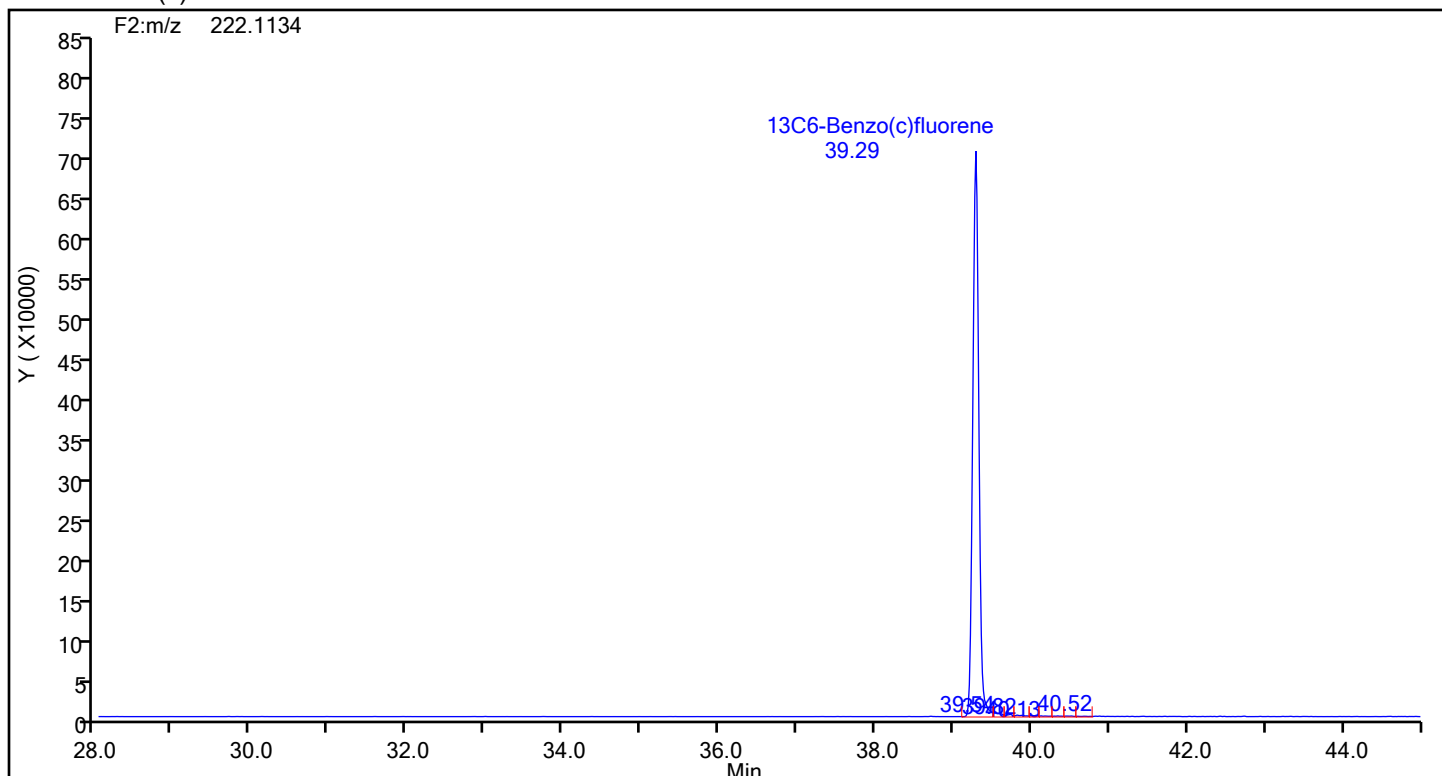
Pyrene-d10 Standards



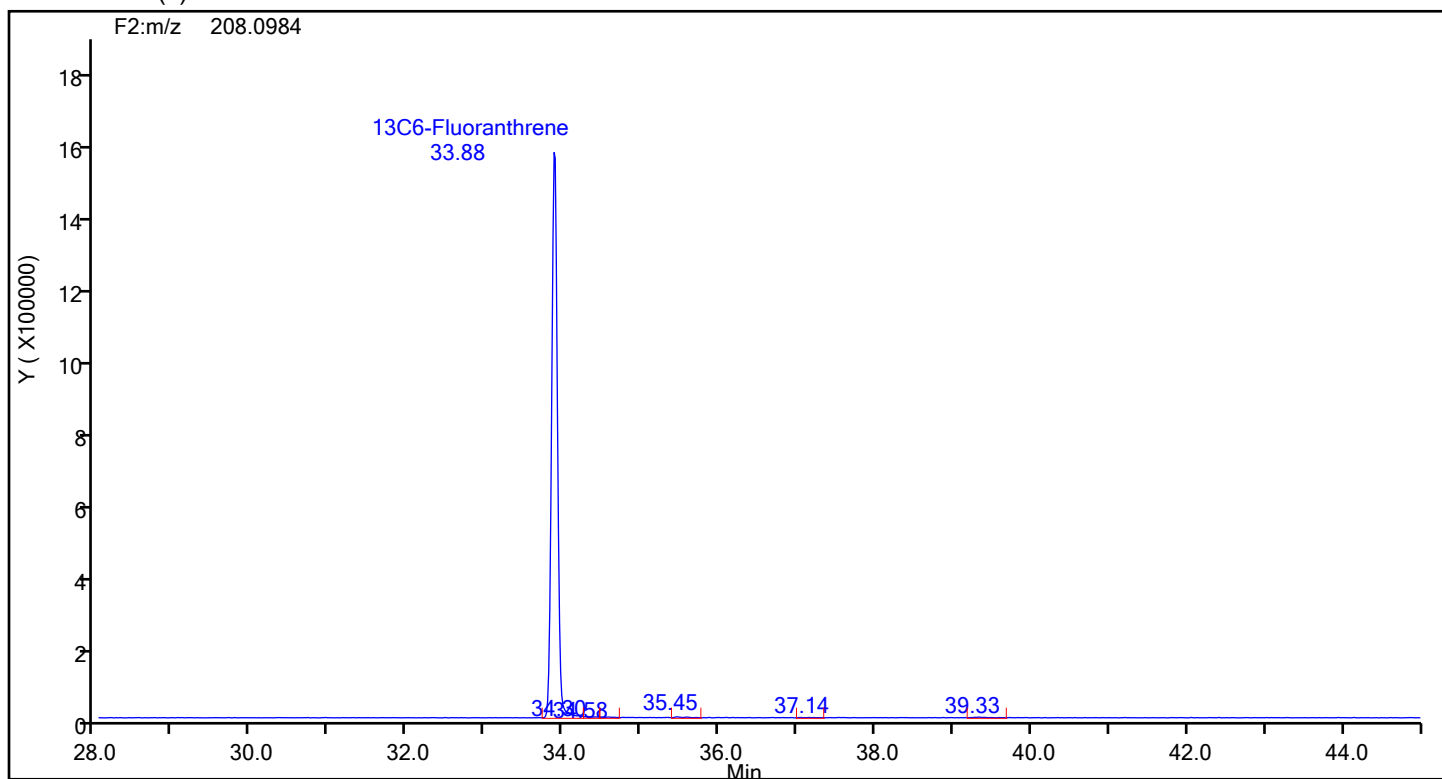
Eurofins Knoxville

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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



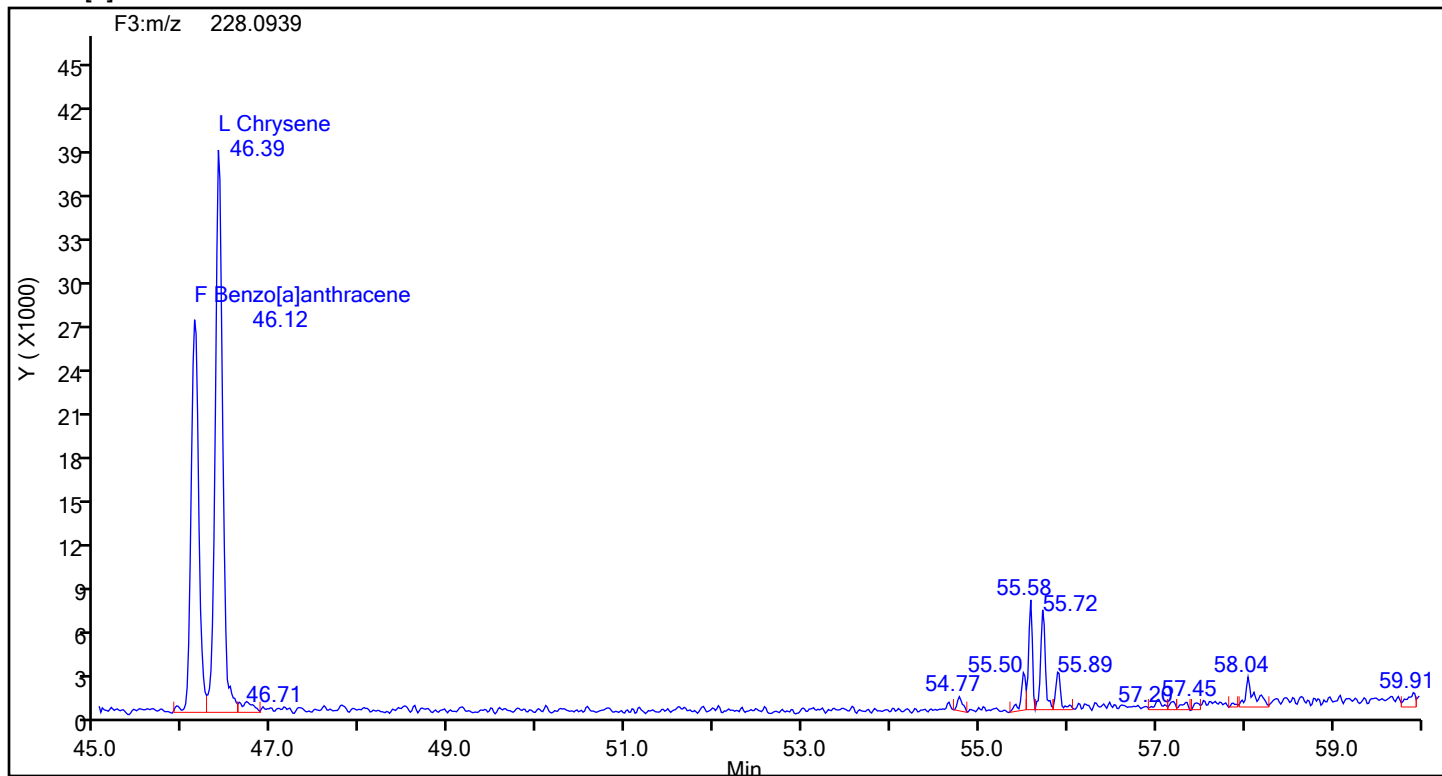
13C6-Benzo(c)fluorene Standards



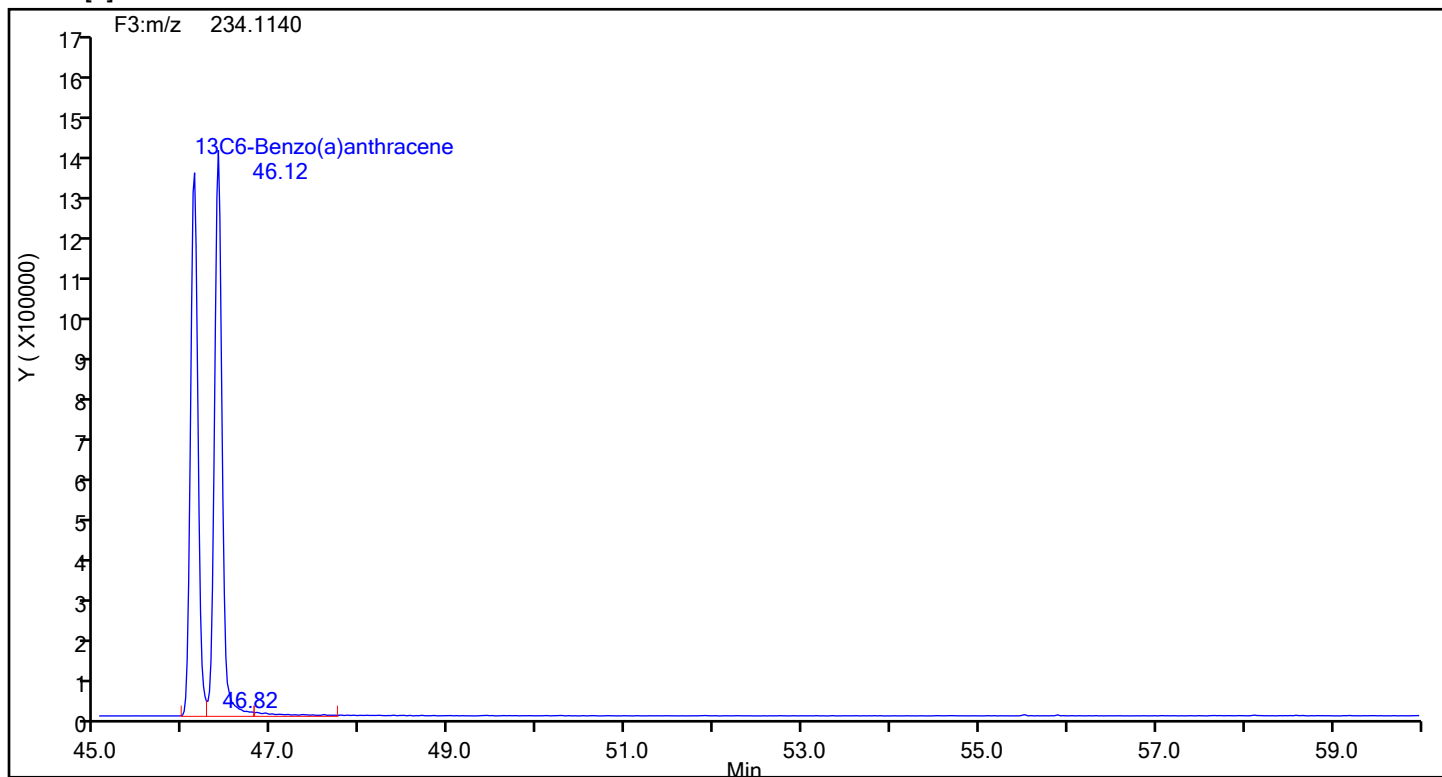
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



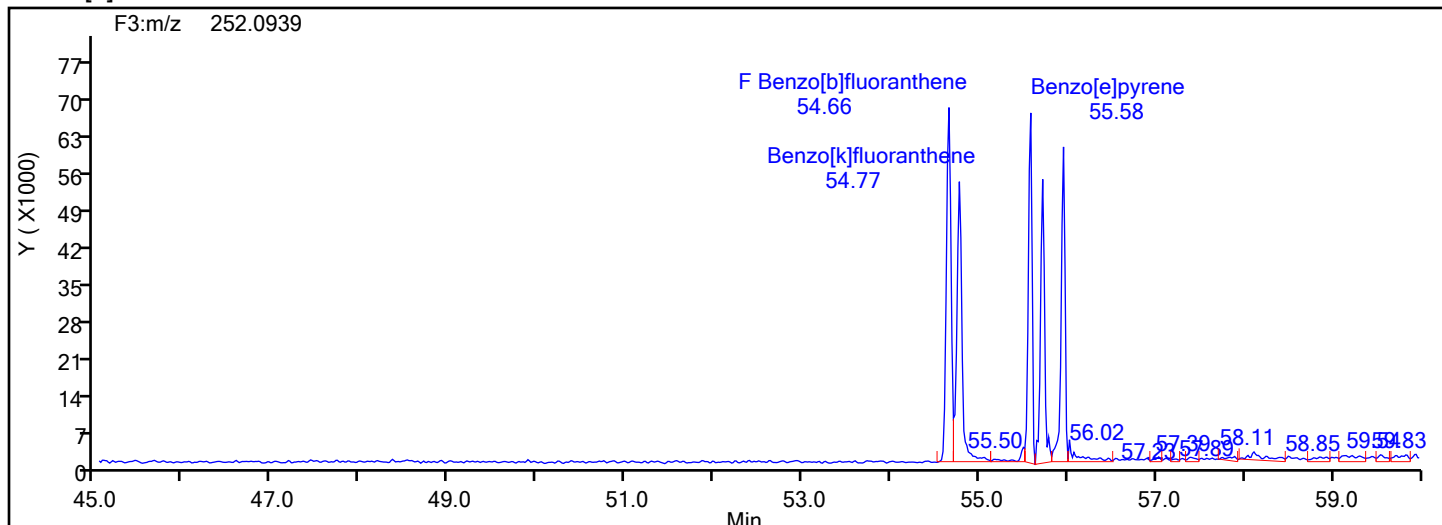
Benzo[a]anthracene Standards



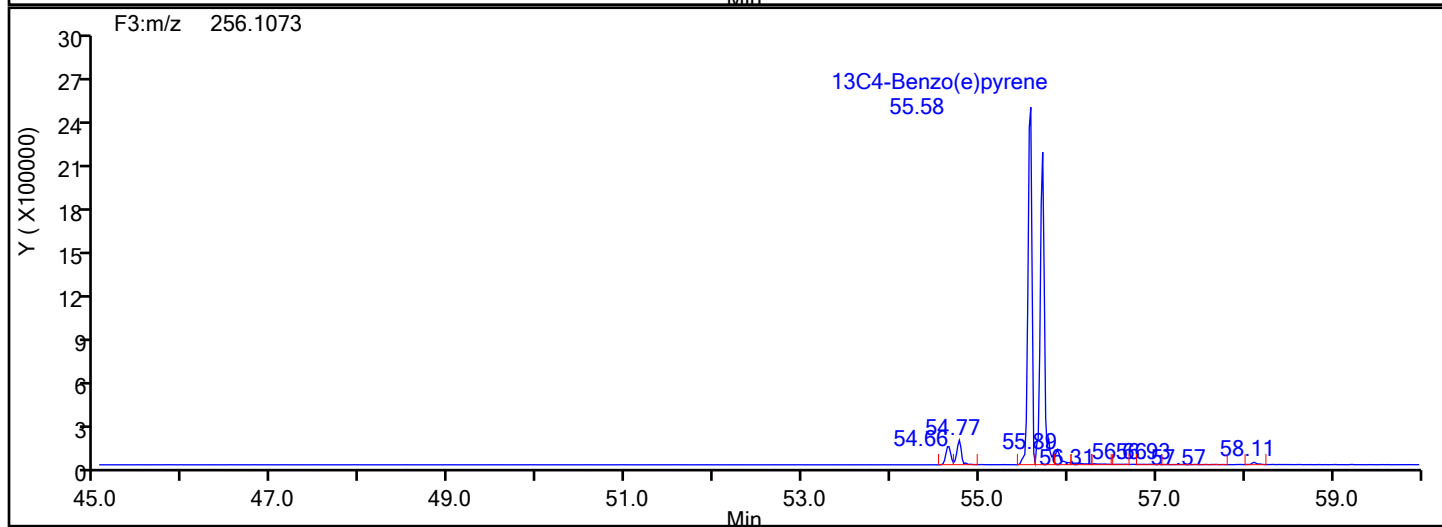
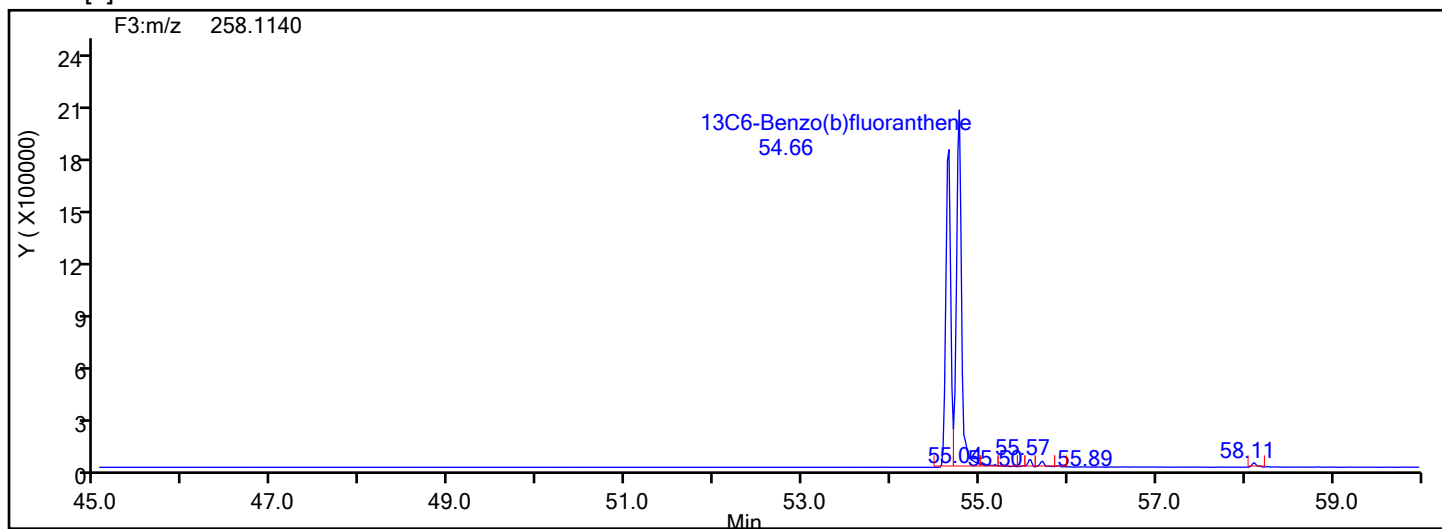
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 2
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



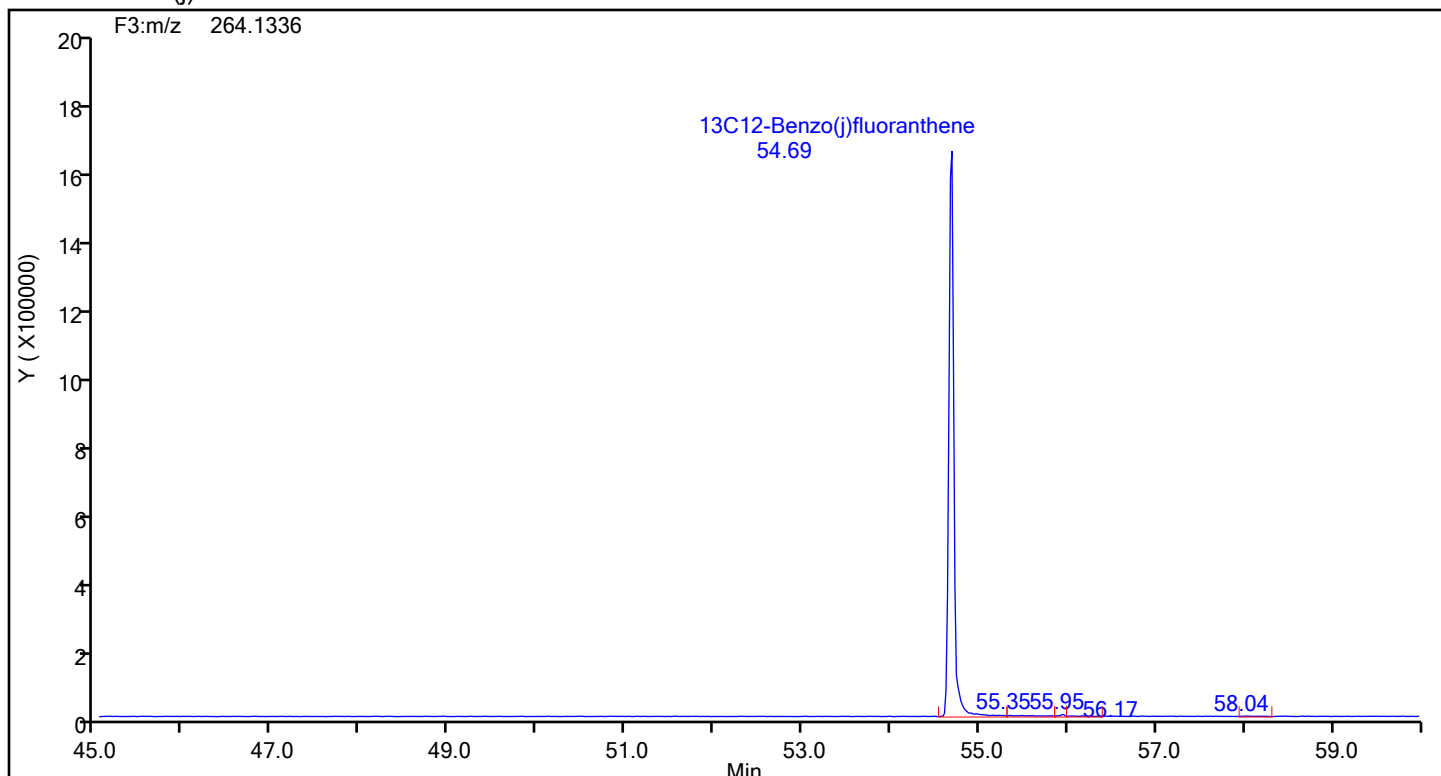
Benzo[b]fluoranthene Standards



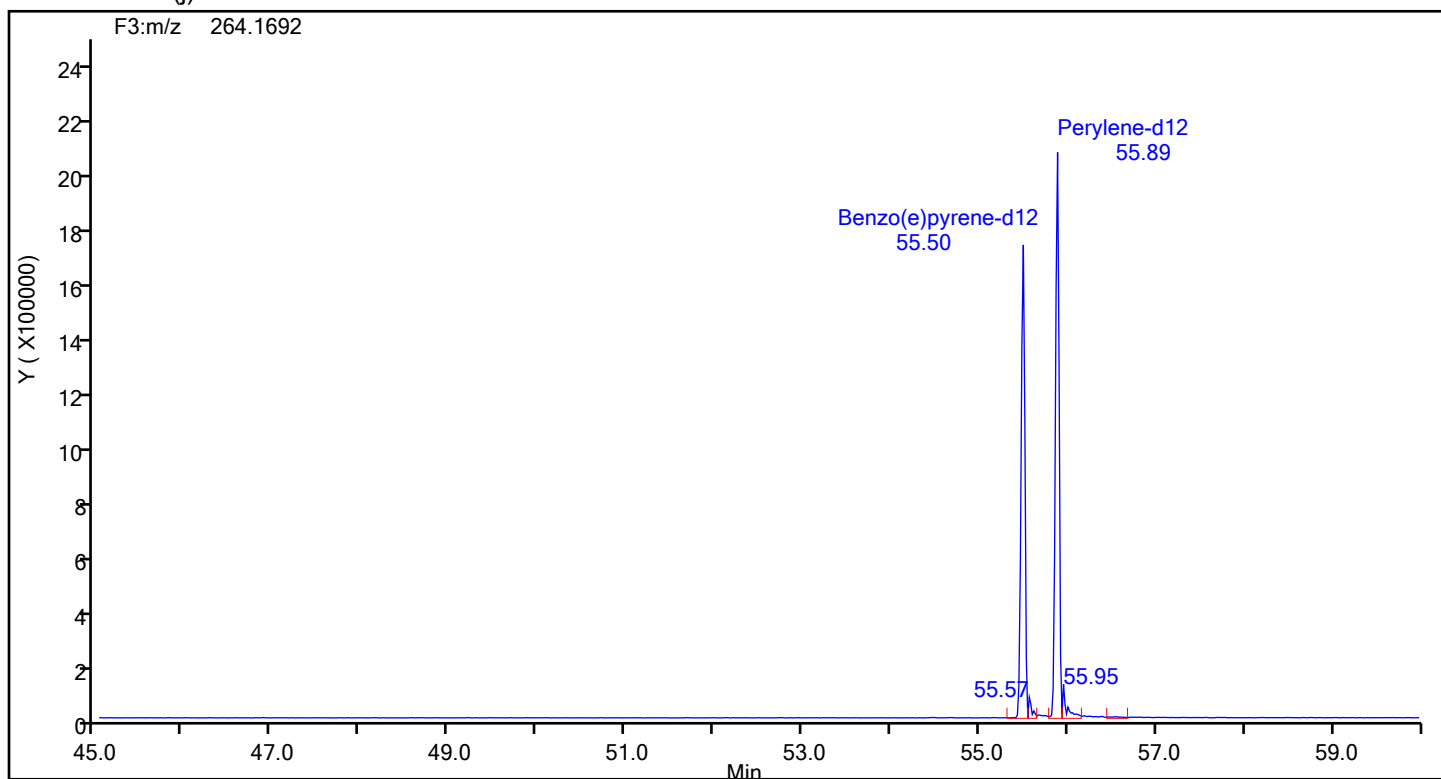
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 2
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



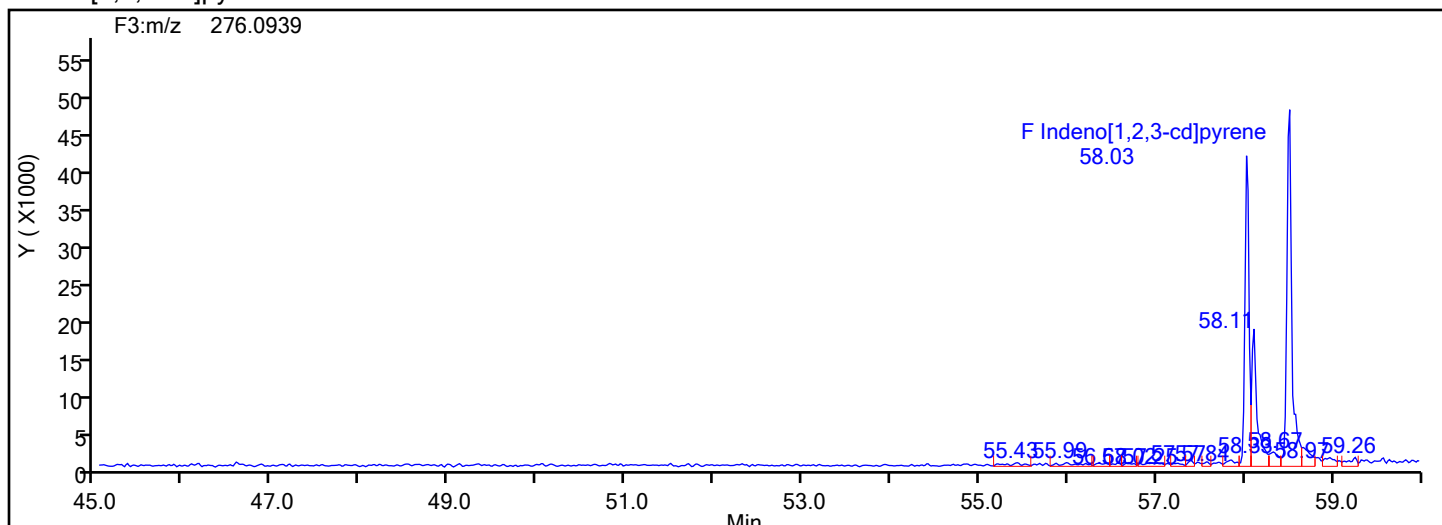
13C12-Benzo(j)fluoranthene Standards



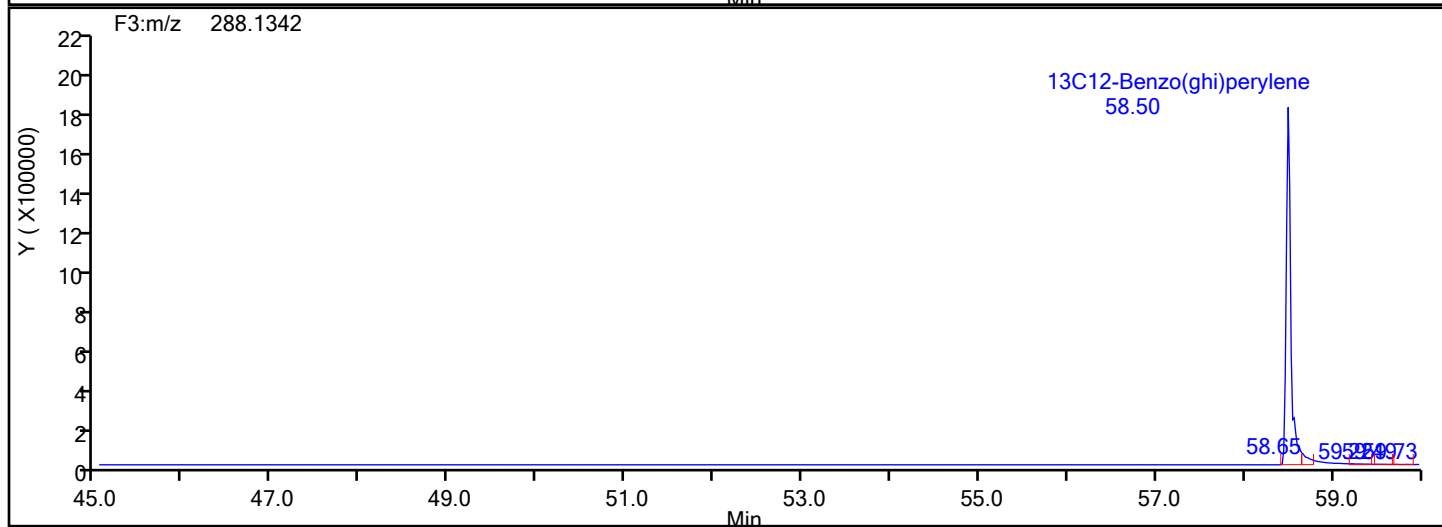
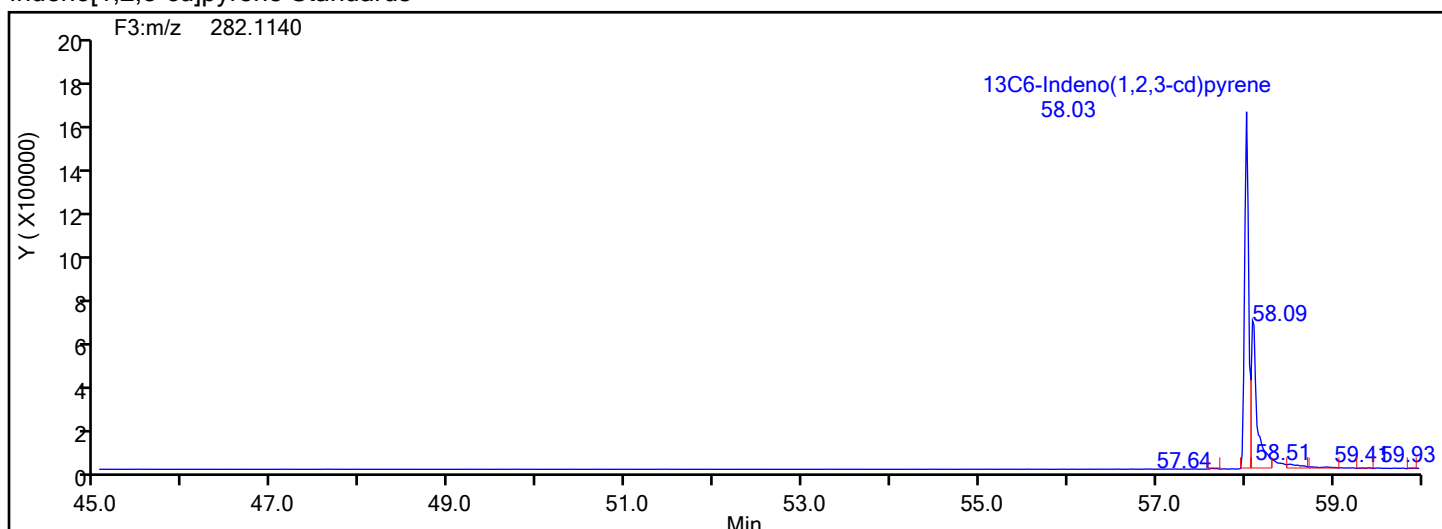
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 2
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

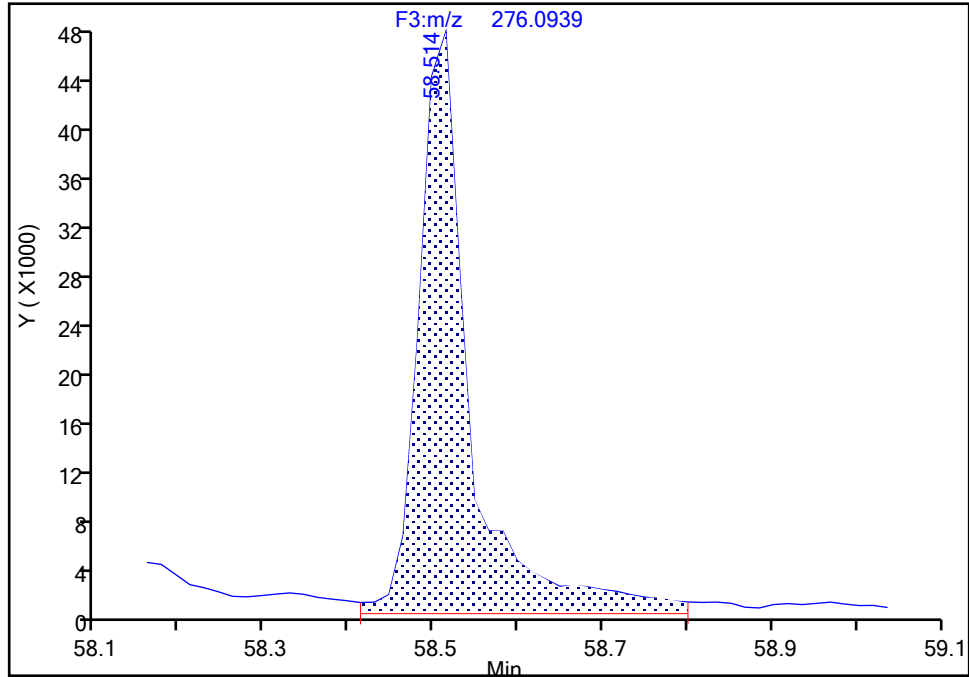
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d
Injection Date: 19-Jun-2024 17:38:00 Instrument ID: D3PAH
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

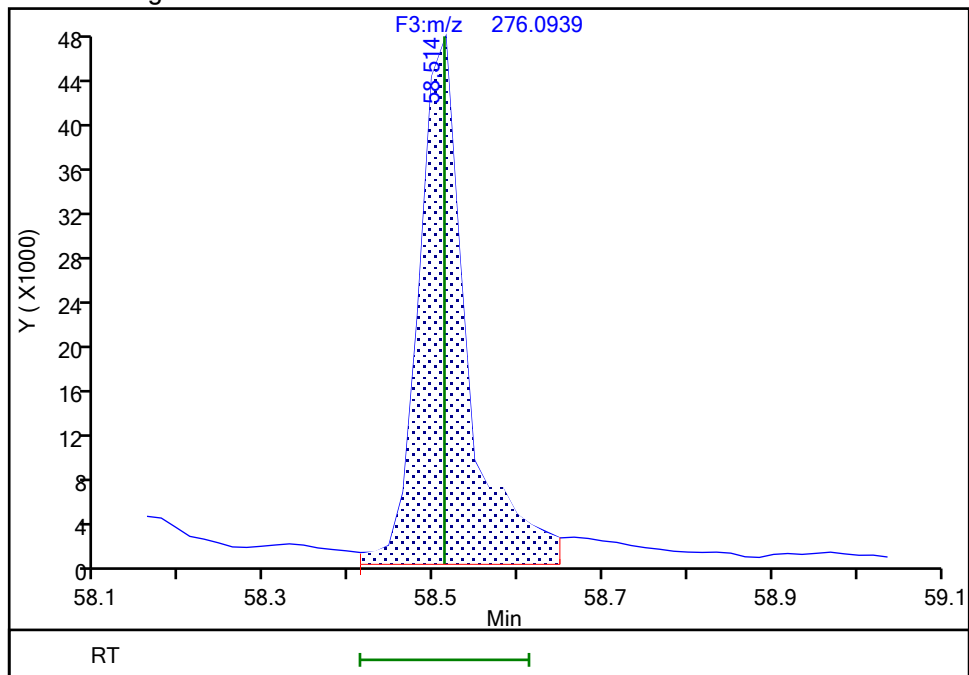
RT: 58.51
Area: 201482
Amount: 2.016742
Amount Units: pg/ul

Processing Integration Results



RT: 58.51
Area: 187407
Amount: 2.234889
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:49:22 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

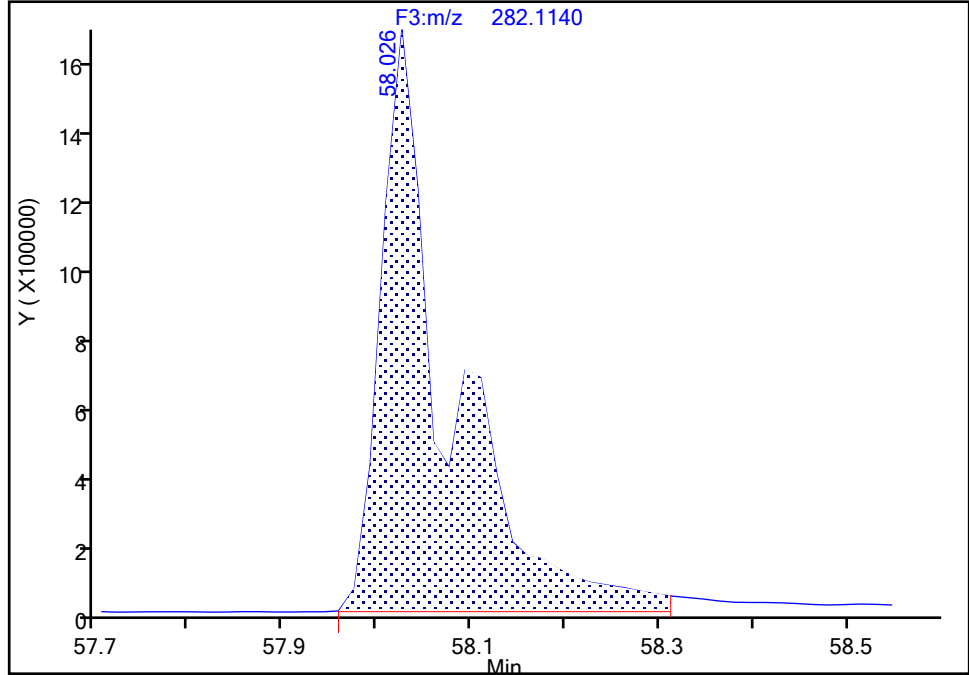
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d
Injection Date: 19-Jun-2024 17:38:00 Instrument ID: D3PAH
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

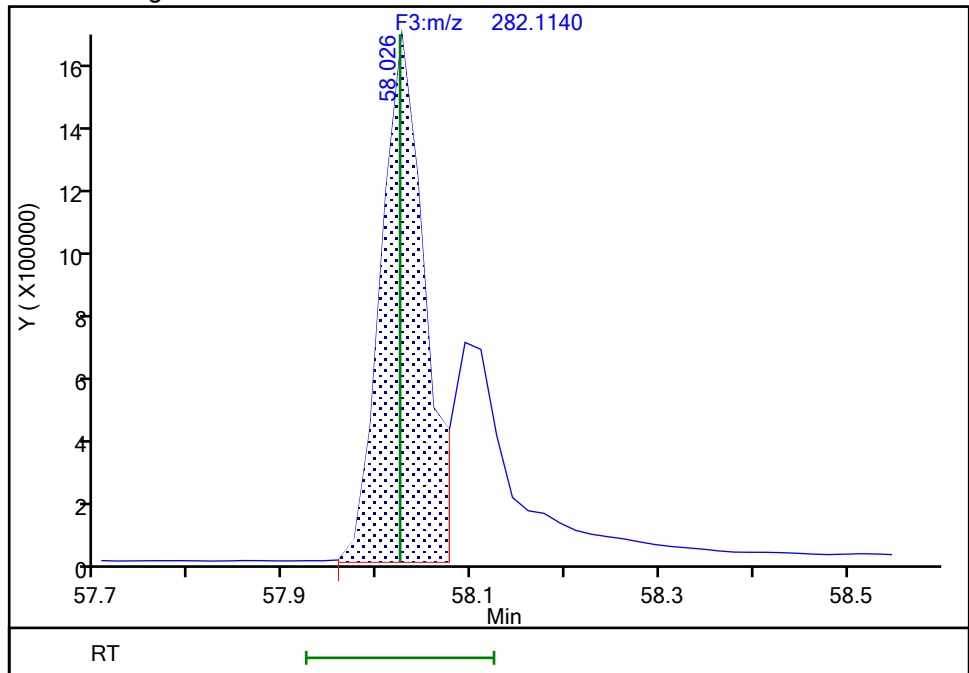
RT: 58.03
Area: 8252283
Amount: 125.6893
Amount Units: pg/ul

Processing Integration Results



RT: 58.03
Area: 5418391
Amount: 105.4568
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:48:52 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

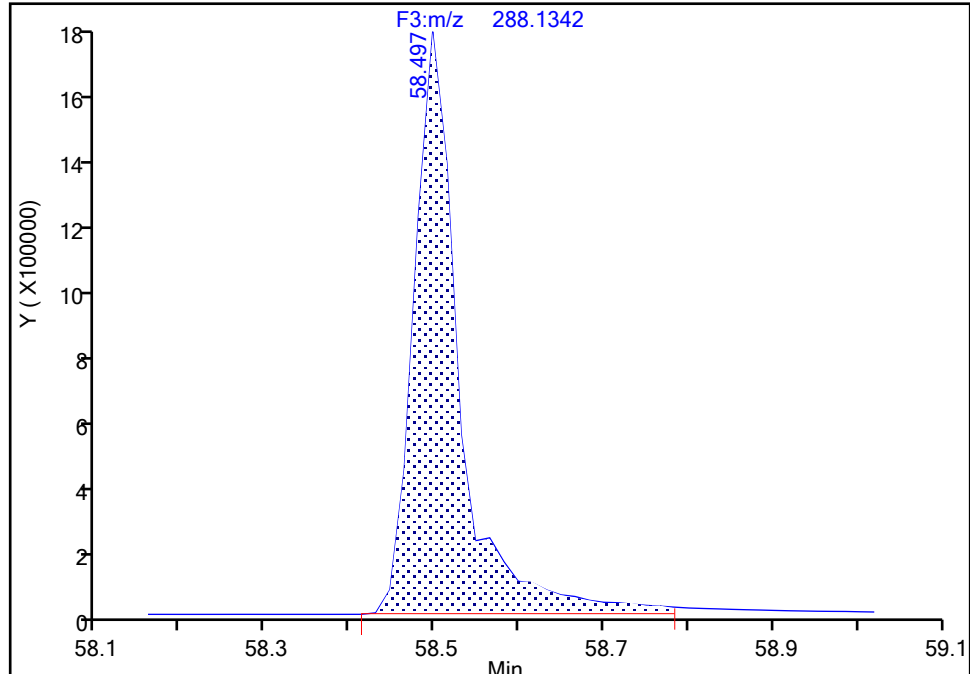
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic2.d
Injection Date: 19-Jun-2024 17:38:00 Instrument ID: D3PAH
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

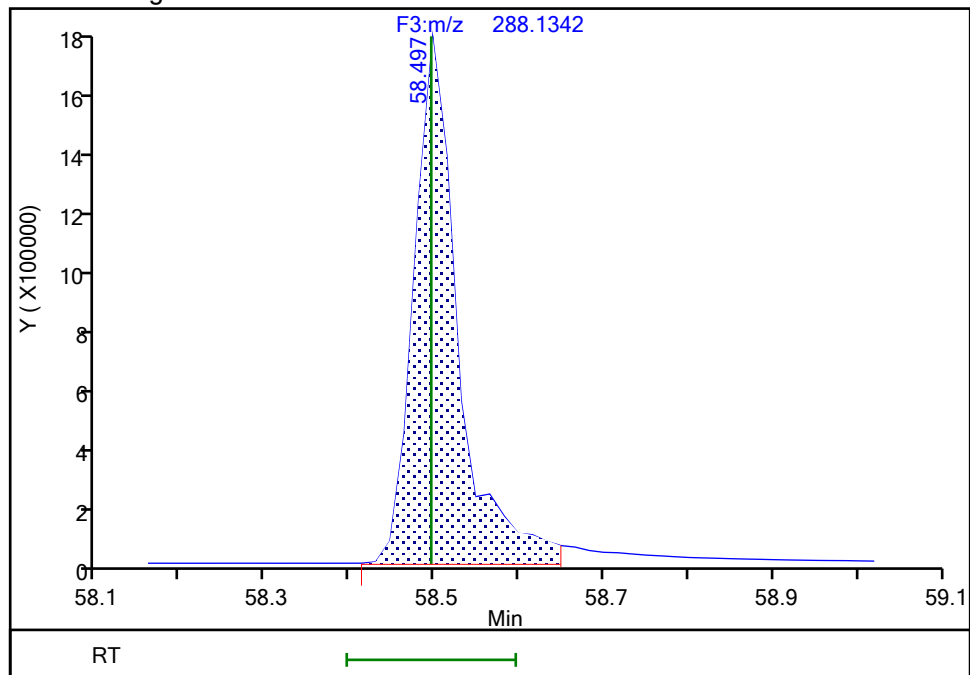
RT: 58.50
Area: 6807660
Amount: 107.2494
Amount Units: pg/ul

Processing Integration Results



RT: 58.50
Area: 6532018
Amount: 101.8985
Amount Units: pg/ul

Manual Integration Results



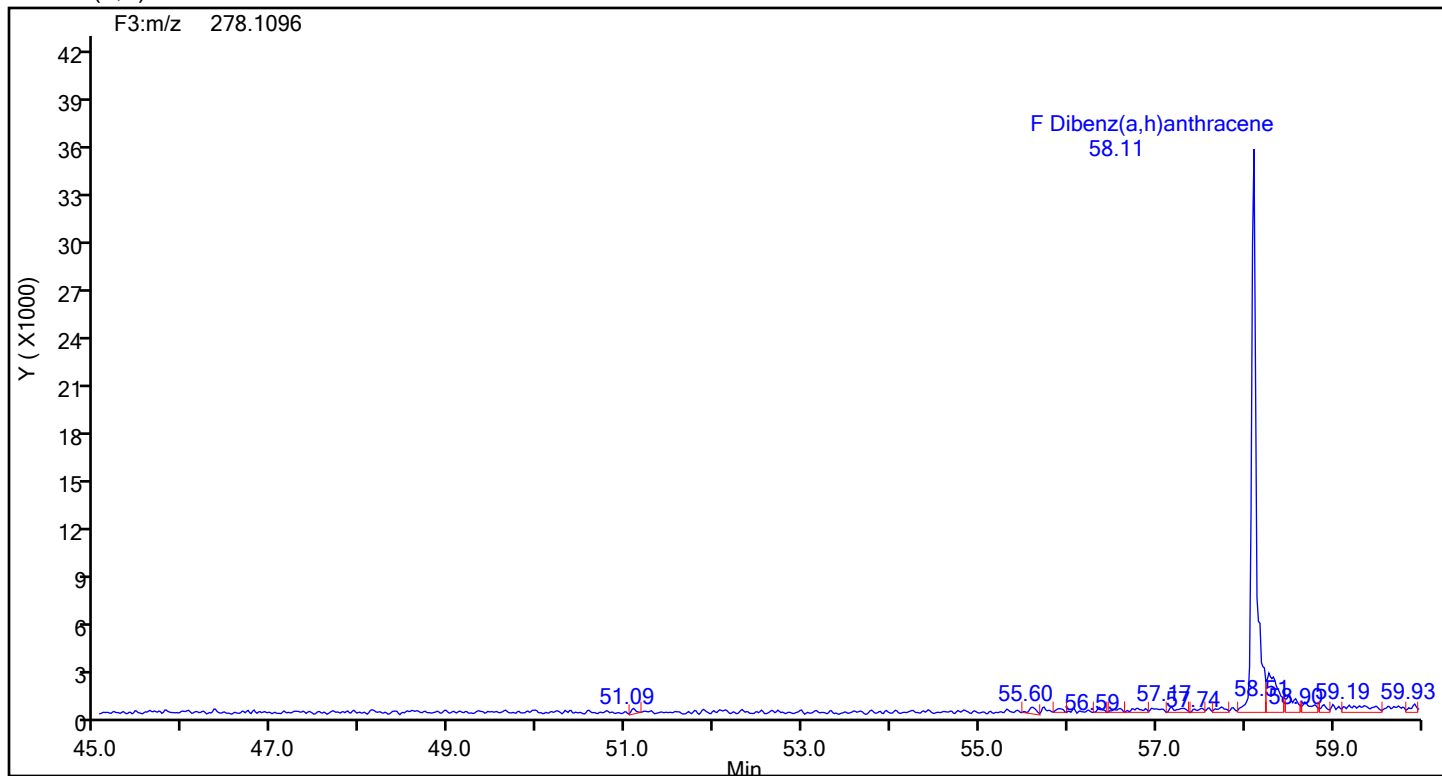
Reviewer: F9EE, 19-Jun-2024 18:49:16 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

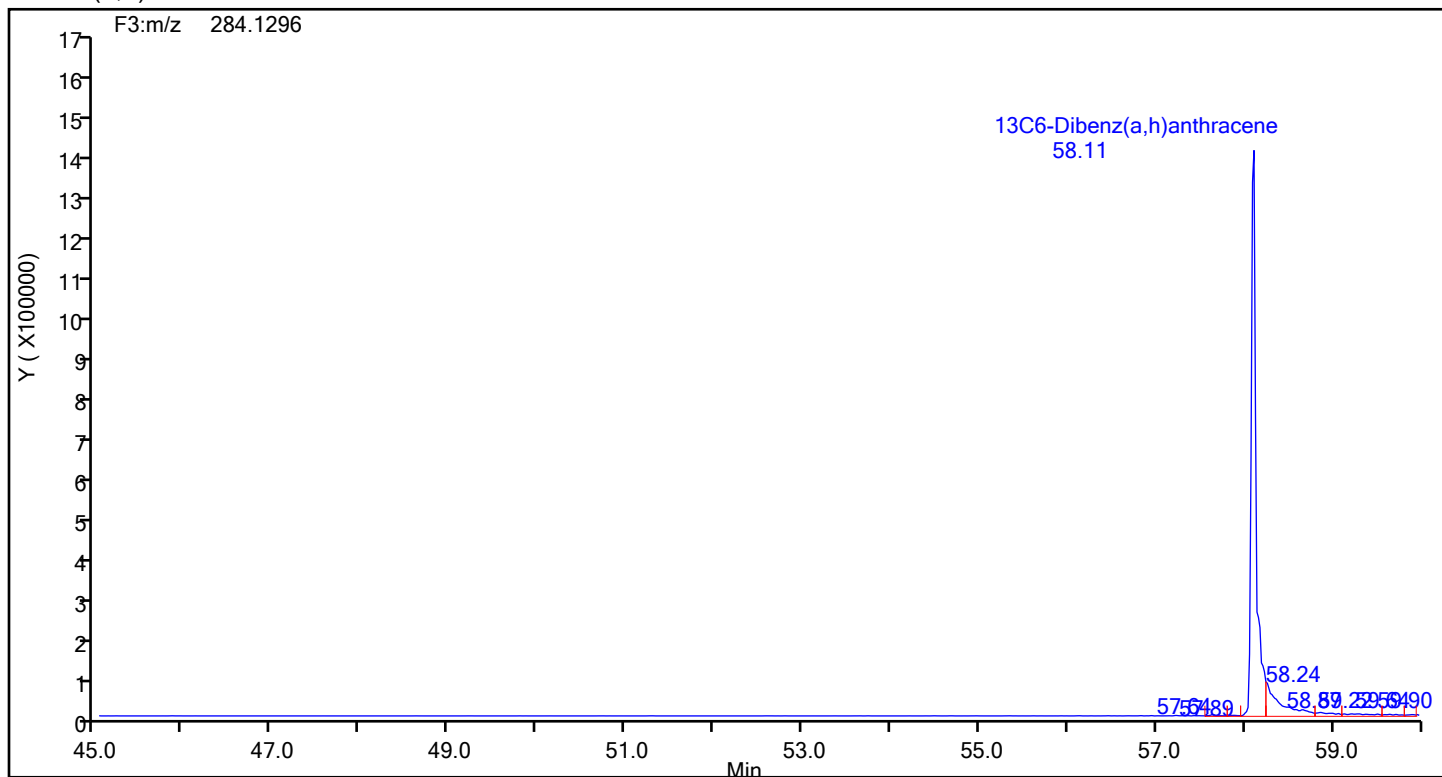
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 2
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

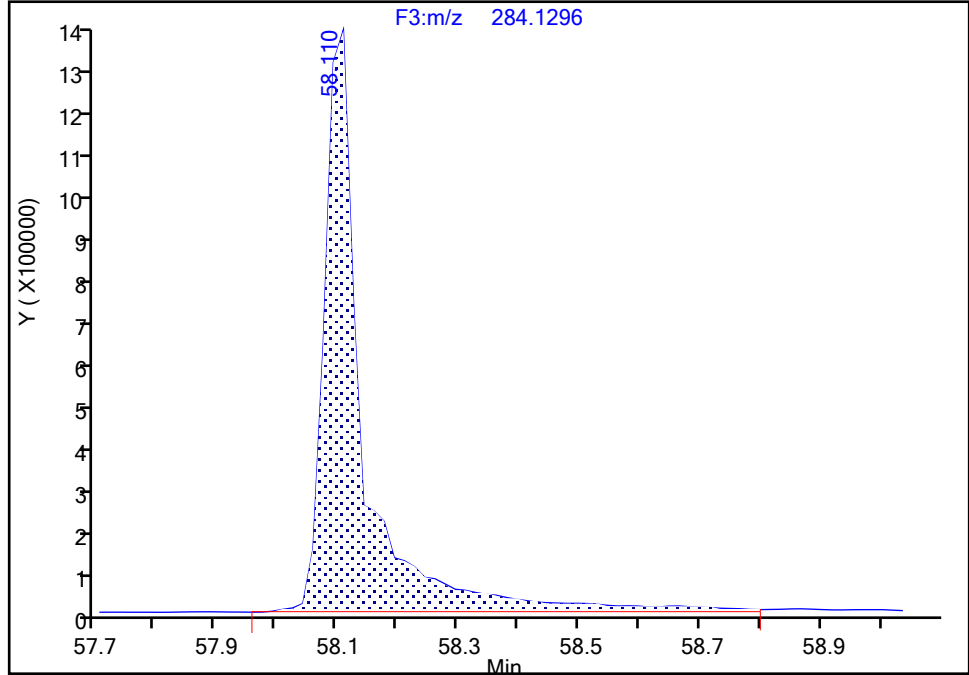
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic2.d
Injection Date: 19-Jun-2024 17:38:00 Instrument ID: D3PAH
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

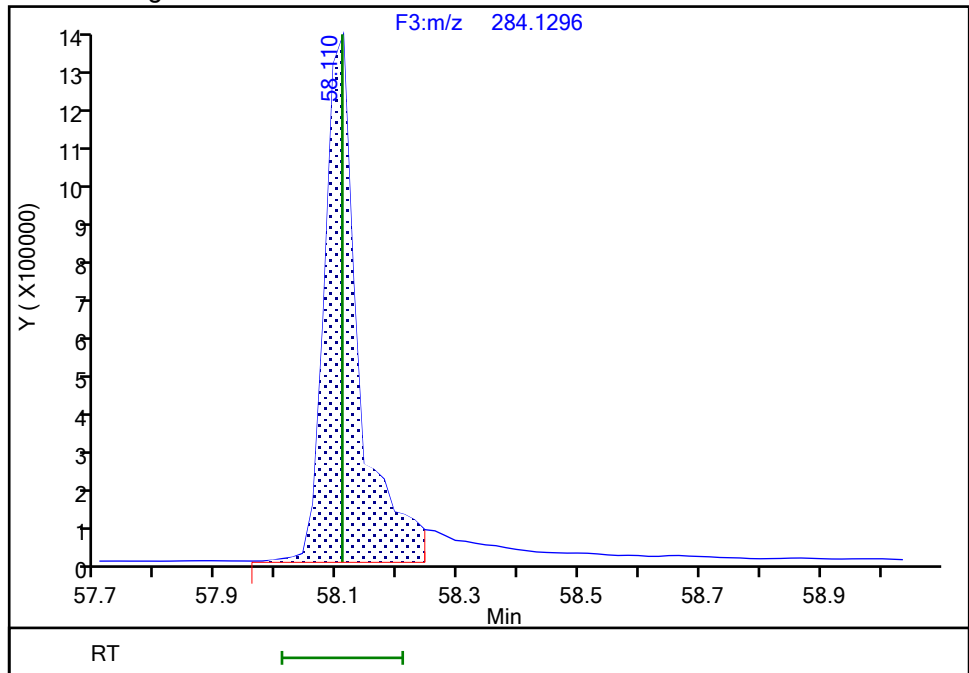
RT: 58.11
Area: 6236111
Amount: 110.5300
Amount Units: pg/ul

Processing Integration Results



RT: 58.11
Area: 5414078
Amount: 102.0351
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:49:02 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 19-Jun-2024 18:42:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-003
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jun-2024 09:51:39 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:35:17

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	10437430		3.3746	101.6	101.6	0.006795	0.006795	102	
Naphthalene	11:34	1556415		1.2893	11.6	11.6	0.0248	0.0248	289	
D 13C6-2-Methylnaphthalene	13:52	4691404		1.6031	96.1	96.1	0.000298	0.000298	96.10	
2-Methylnaphthalene	13:53	659861		1.2786	11.0	11.0	0.0262	0.0262	275	
D 13C6-Acenaphthylene	16:45	4897592		1.6520	97.4	97.4	0.000405	0.000405	97.35	
Acenaphthylene	16:45	269411		2.3661	3.830	3.830	0.0191	0.0191	95.74	
* Acenaphthene-d10	17:20	3045309		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:27	2973262		0.9792	99.7	99.7	0.002634	0.002634	99.71	
Acenaphthene	17:27	257797		1.2697	6.829	6.829	0.0271	0.0271	171	
D 13C6-Fluorene	19:45	2635457		0.8898	97.3	97.3	0.000537	0.000537	97.26	
Fluorene	19:45	181920		1.2532	5.508	5.508	0.0246	0.0246	138	
D 13C6-Phenanthrene	25:08	3834191		0.5724	94.8	94.8	0.004649	0.004649	94.83	
Phenanthrene	25:08	238313		1.1044	5.628	5.628	0.0353	0.0353	141	
\$ Anthracin-d10	25:21	2851175		0.4257	94.8	94.8	0.000357	0.000357	94.82	
D 13C6-Anthracene	25:28	3047129		0.4523	95.4	95.4	0.005883	0.005883	95.37	
Anthracene	25:28	160718		1.3586	3.882	3.882	0.0379	0.0379	97.06	
D 13C6-Fluoranthrene	33:54	8154780		1.1994	96.3	96.3	0.0216	0.0216	96.26	
Fluoranthrene	33:54	396095		1.1513	4.219	4.219	0.0179	0.0179	105	
* Pyrene-d10	35:27	7063080		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:35	9131545		1.3512	95.7	95.7	0.0146	0.0146	95.68	
Pyrene	35:35	427111		1.0652	4.391	4.391	0.0176	0.0176	110	
\$ 13C6-Benzo(c)fluorene	39:18	3665129		0.5136	101.0	101.0	0.005478	0.005478	101	
D 13C6-Benzo(a)anthracene	46:07	7504068		1.5189	100.3	100.3	0.0152	0.0152	100	
Benzo[a]anthracene	46:07	282836		0.9739	3.870	3.870	0.0144	0.0144	96.76	
D 13C6-Chrysene	46:24	7844204		1.6287	97.7	97.7	0.0142	0.0142	97.75	
Chrysene	46:25	347139		0.9815	4.509	4.509	0.0145	0.0145	113	
D 13C6-Benzo(b)fluoranthene	54:40	6808556		1.4621	94.5	94.5	0.001125	0.001125	94.51	
Benzo[b]fluoranthene	54:40	379738		1.1249	4.958	4.958	0.008828	0.008828	124	
\$ 13C12-Benzo(j)fluoranthene	54:42	6337903		1.3558	94.9	94.9	0.0173	0.0173	94.87	
D 13C6-Benzo(k)fluoranthene	54:47	8218810		1.7507	95.3	95.3	0.000940	0.000940	95.28	
Benzo[k]fluoranthene	54:47	351417		1.1271	3.794	3.794	0.007793	0.007793	94.84	
* Benzo(e)pyrene-d12	55:30	4927202		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:35	7853527		1.6368	97.4	97.4	0.0105	0.0105	97.38	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	316746		1.0013	4.028	4.028	0.006974	0.006974	101	
Benzo[a]pyrene	55:44	318019		1.1130	3.956	3.956	0.007428	0.007428	98.90	
D 13C4-Benzo(a)pyrene	55:44	7222186		1.5508	94.5	94.5	0.0111	0.0111	94.52	
D Perylene-d12	55:54	5628212		1.1917	95.9	95.9	0.0162	0.0162	95.85	
Perylene	55:58	330090		1.4307	4.099	4.099	0.006406	0.006406	102	
D 13C6-Indeno(1,2,3-cd)pyrene	58:02	4630053		1.0218	92.0	92.0	0.009539	0.009539	91.96	
Indeno[1,2,3-cd]pyrene	58:03	203445		1.1249	3.906	3.906	0.009054	0.009054	97.65	
D 13C6-Dibenz(a,h)anthracene	58:07	4776504		1.0553	91.9	91.9	0.005196	0.005196	91.86	M
Dibenz(a,h)anthracene	58:07	210948		1.1314	3.904	3.904	0.007161	0.007161	97.59	M
D 13C12-Benzo(ghi)perylene	58:30	5830946		1.2749	92.8	92.8	0.003106	0.003106	92.83	M
Benzo[g,h,i]perylene	58:31	301308		1.2838	4.025	4.025	0.007142	0.007142	101	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS3_00003

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 19-Jun-2024 18:42:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-003
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:39 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:35:17

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	0	0.666	10437430	3484116	96	240	36293		
Naphthalene											
128.0626	11:34	11:34	0	1.001	1556415	509599	446	1115	1143		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	0	0.800	4691404	2108259	2	5	1054130		
2-Methylnaphthalene											
142.0783	13:53	13:53	0	1.001	659861	294187	283	707	1040		
13C6-Acenaphthylene											
158.0828	16:45	16:45	0	0.966	4897592	1726905	3	7	575635		
Acenaphthylene											
152.0626	16:45	16:45	0	1.000	269411	95497	187	467	511		
Acenaphthene-d10											
164.1404	17:20	17:20	0		3045309	1046726	6	15	174454		
13C6-Acenaphthene											
160.0984	17:27	17:27	0	1.007	2973262	1032608	11	27	93873		
Acenaphthene											
154.0783	17:27	17:27	0	1.000	257797	90217	142	355	635		
13C6-Fluorene											
172.0984	19:45	19:45	0	1.139	2635457	796176	2	5	398088		
Fluorene											
166.0783	19:45	19:45	0	1.000	181920	53149	98	245	542		
13C6-Phenanthrene											
184.0984	25:08	25:08	0	0.709	3834191	902063	14	35	64433		
Phenanthrene											
178.0783	25:08	25:08	0	1.000	238313	57984	141	352	411		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:21	25:21	0	0.715	2851175	640515	1	2	640515		
13C6-Anthracene											
184.0984	25:28	25:28	0	0.718	3047129	683124	14	35	48795		
Anthracene											
178.0783	25:28	25:28	0	1.000	160718	37402	141	352	265		
13C6-Fluoranthrene											
208.0984	33:54	33:54	0	0.956	8154780	1562778	136	340	11491		
Fluoranthene											
202.0783	33:54	33:54	0	1.000	396095	78237	129	322	606		
Pyrene-d10											
212.1404	35:27	35:27	0		7063080	1315153	50	125	26303		
13C3-Pyrene											
205.0883	35:35	35:35	0	1.004	9131545	1718572	104	260	16525		
Pyrene											
202.0783	35:35	35:35	0	1.000	427111	79383	129	322	615		
13C6-Benzo(c)fluorene											
222.1134	39:18	39:18	0	0.708	3665129	673027	15	37	44868		
13C6-Benzo(a)anthracene											
234.1140	46:07	46:07	0	1.301	7504068	1334701	152	380	8781		
Benzo[a]anthracene											
228.0939	46:07	46:07	0	1.000	282836	50962	75	187	679		
13C6-Chrysene											
234.1140	46:24	46:24	0	1.309	7844204	1313857	152	380	8644		
Chrysene											
228.0939	46:25	46:25	0	1.000	347139	58344	75	187	778		
13C6-Benzo(b)fluoranthene											
258.1140	54:40	54:40	0	0.985	6808556	1812534	11	27	164776		
Benzo[b]fluoranthene											
252.0939	54:40	54:40	0	1.000	379738	101987	72	180	1416		
13C12-Benzo(j)fluoranthene											
264.1336	54:42	54:42	0	0.985	6337903	1650721	154	385	10719		
13C6-Benzo(k)fluoranthene											
258.1140	54:47	54:47	0	0.987	8218810	2049415	11	27	186311		
Benzo[k]fluoranthene											
252.0939	54:47	54:47	0	1.000	351417	91356	72	180	1269		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	0		4927202	1641398	127	317	12924		
13C4-Benzo(e)pyrene											
256.1073	55:35	55:35	0	1.002	7853527	2577674	113	282	22811		
Benzo[e]pyrene											
252.0939	55:35	55:35	0	1.000	316746	107782	72	180	1497		
Benzo[a]pyrene											
252.0939	55:44	55:44	0	1.000	318019	97222	72	180	1350		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:44	55:44	0	1.004	7222186	2177246	113	282	19268		
Perylene-d12											
264.1692	55:54	55:54	0	1.007	5628212	1964028	127	317	15465		
Perylene											
252.0939	55:58	55:58	0	1.001	330090	107390	72	180	1492		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:02	58:02	0	1.046	4630053	1423655	64	160	22245		
Indeno[1,2,3-cd]pyrene											
276.0939	58:03	58:03	0	1.000	203445	66835	58	145	1152		
13C6-Dibenz(a,h)anthracene											
284.1296	58:07	58:07	0	1.047	4776504	1357735	36	90	37715		M
Dibenz(a,h)anthracene											
278.1096	58:07	58:07	0	1.000	210948	59990	44	110	1363		M
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	5830946	1581495	26	65	60827		M
Benzo[g,h,i]perylene											
276.0939	58:31	58:31	0	1.000	301308	83672	58	145	1443		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS3_00003

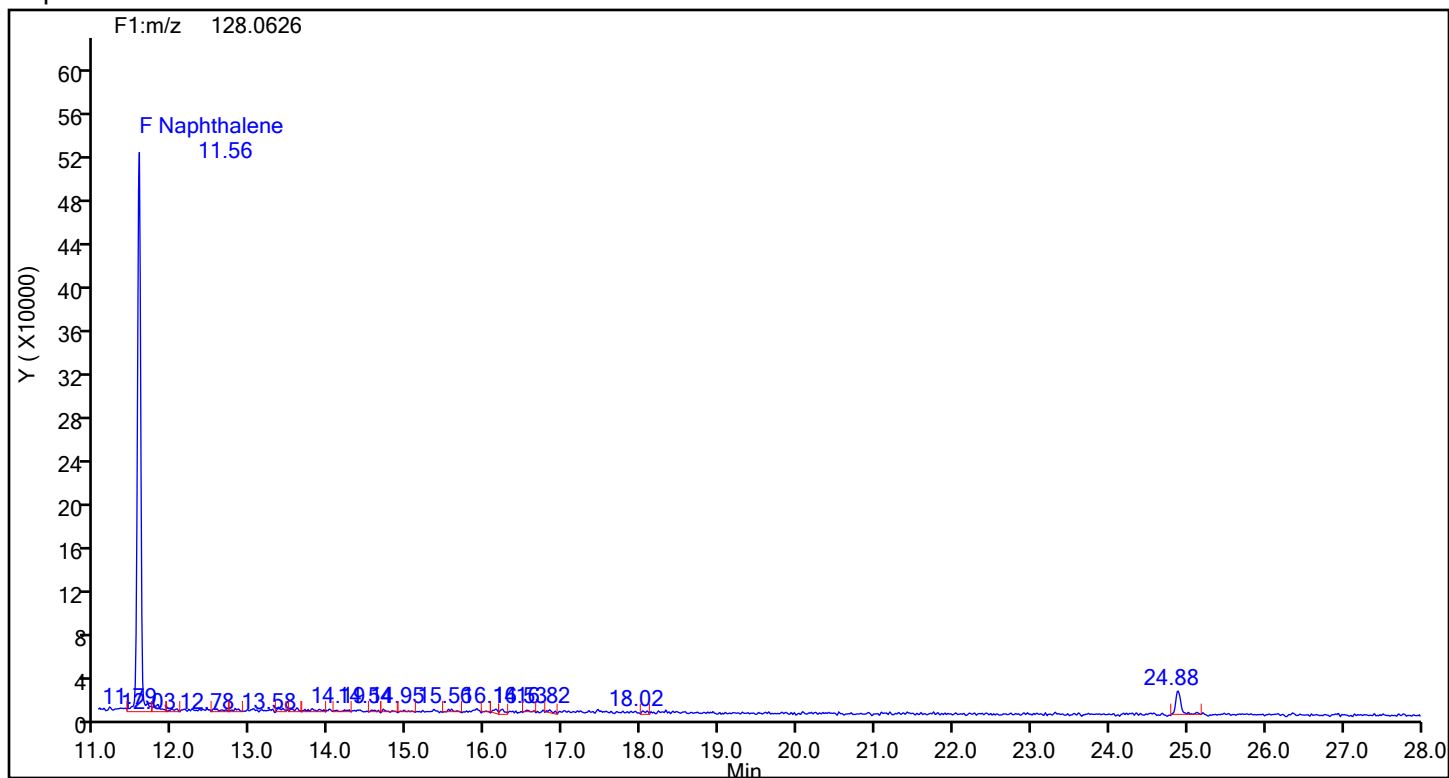
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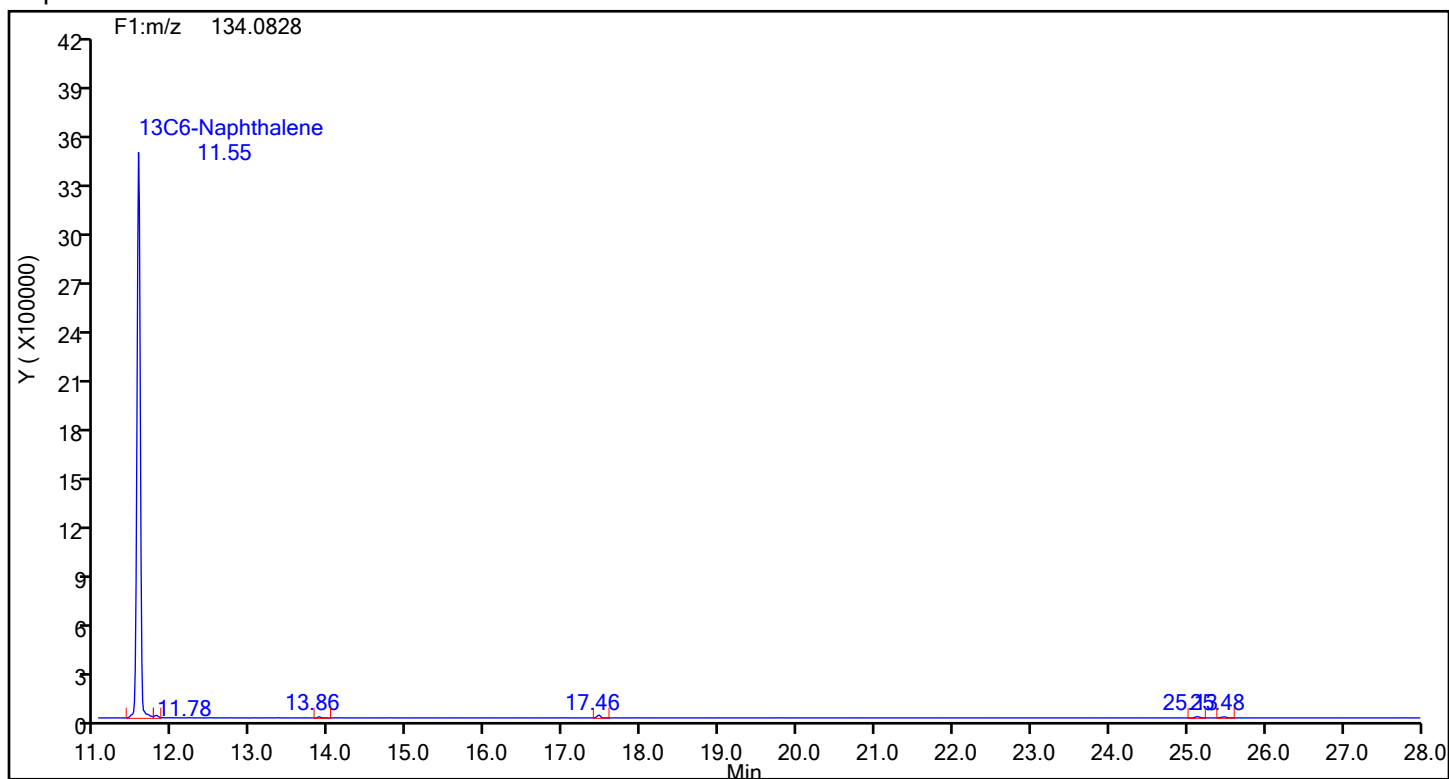
Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



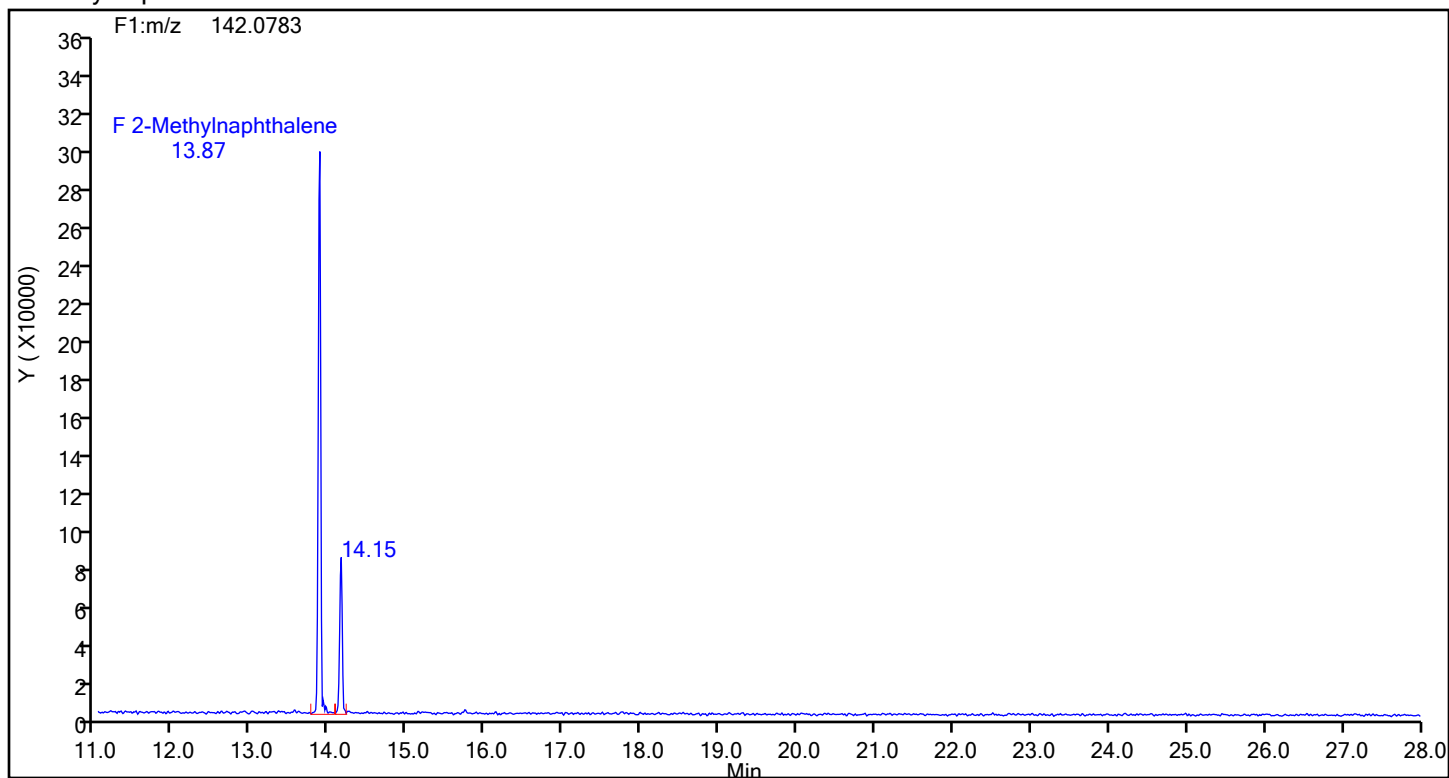
Naphthalene Standards



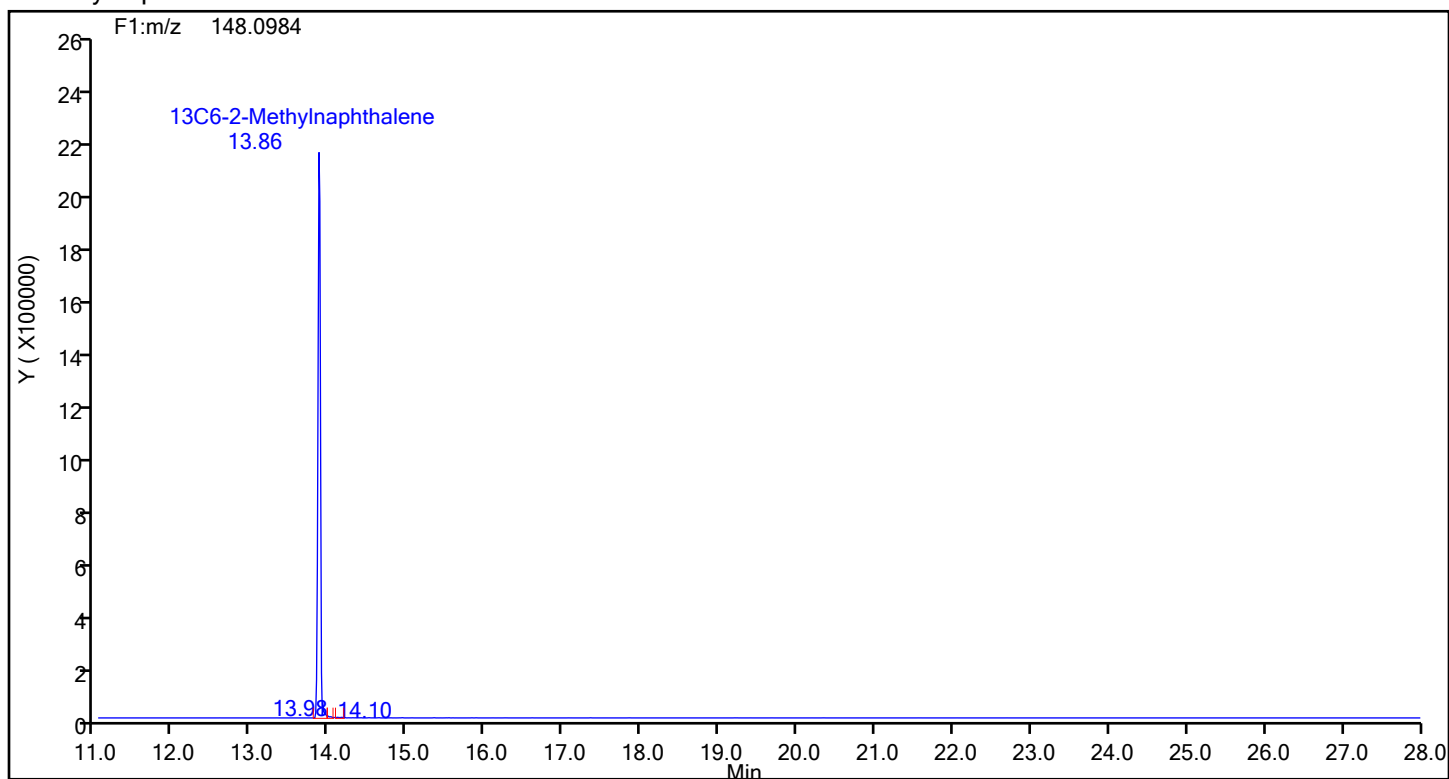
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



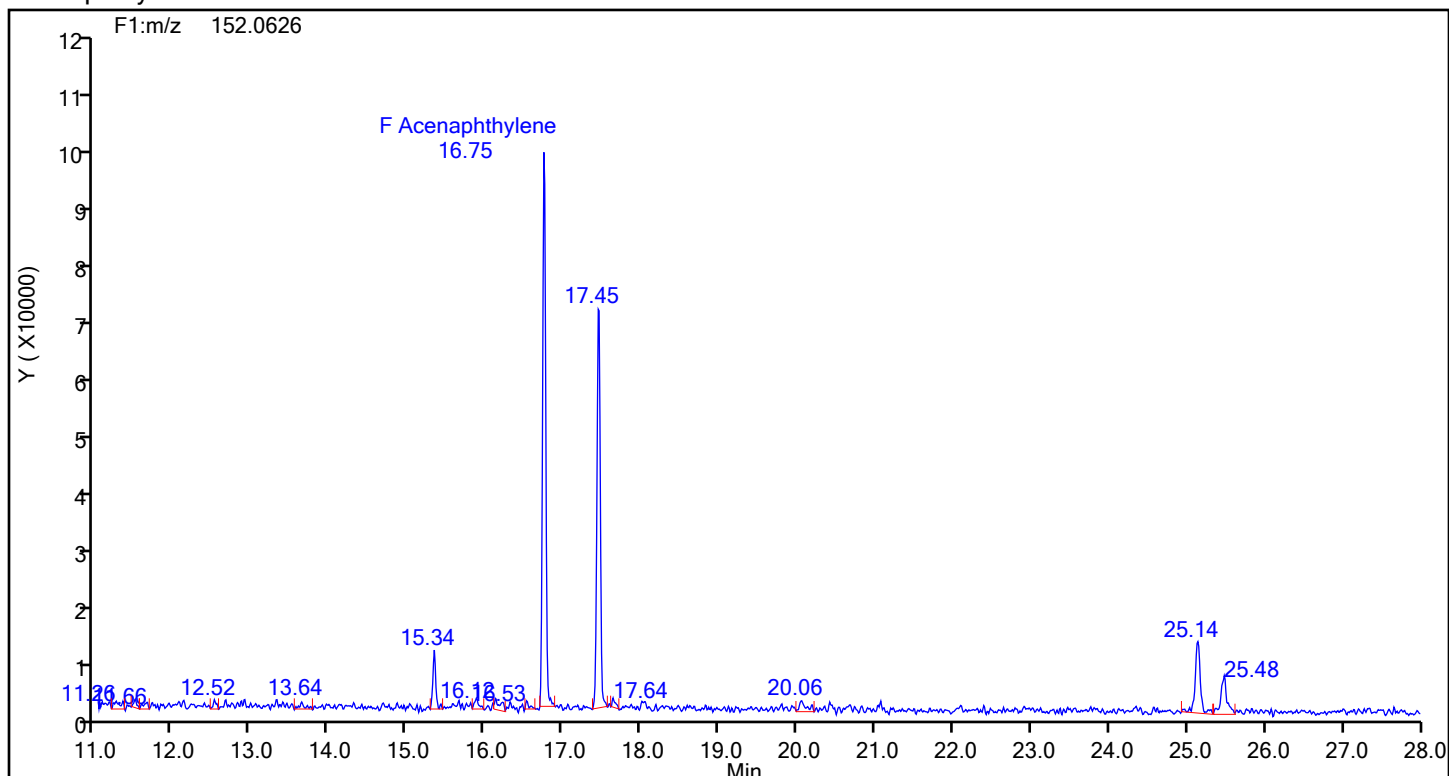
2-Methylnaphthalene Standards



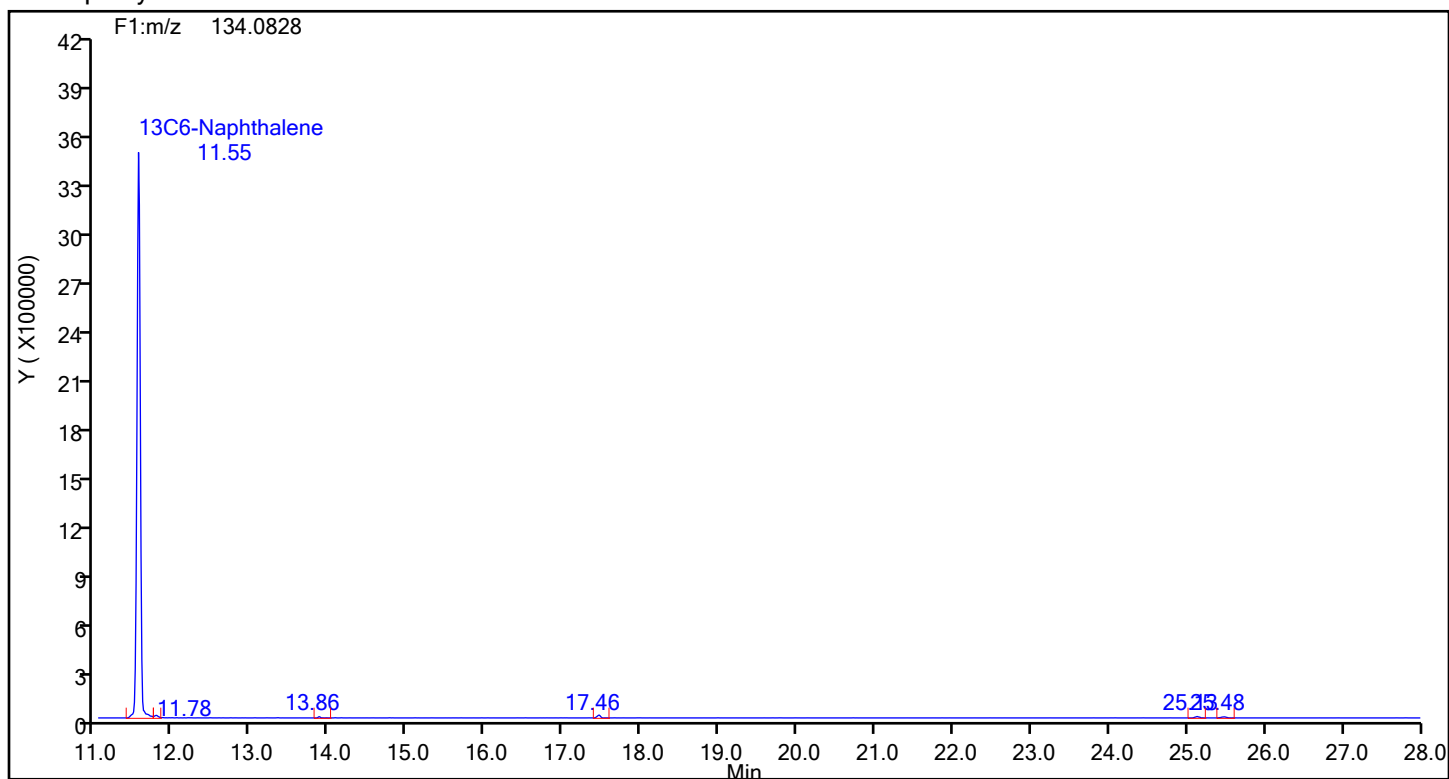
Eurofins Knoxville

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Acenaphthylene



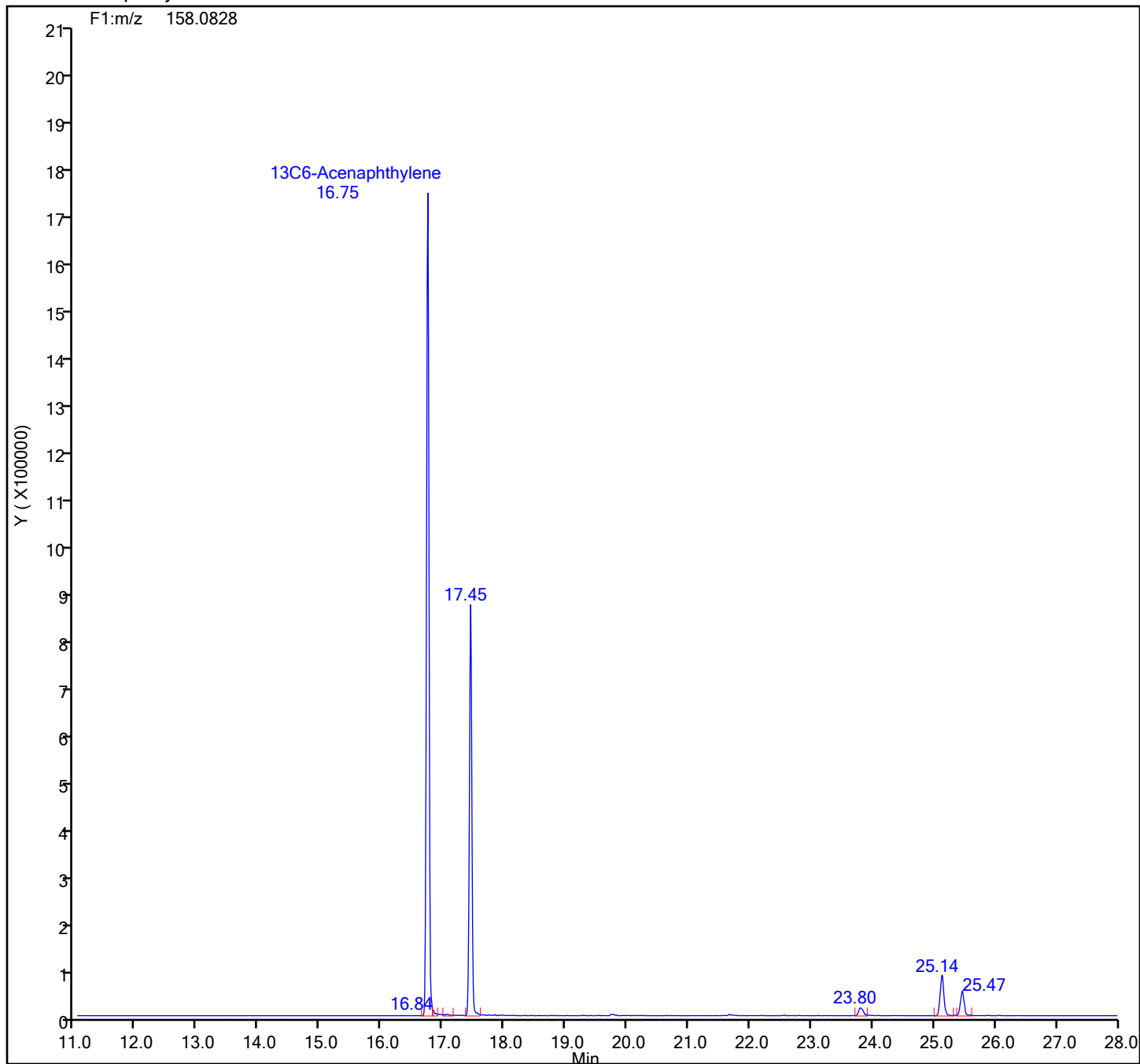
Acenaphthylene Standards



Eurofins Knoxville

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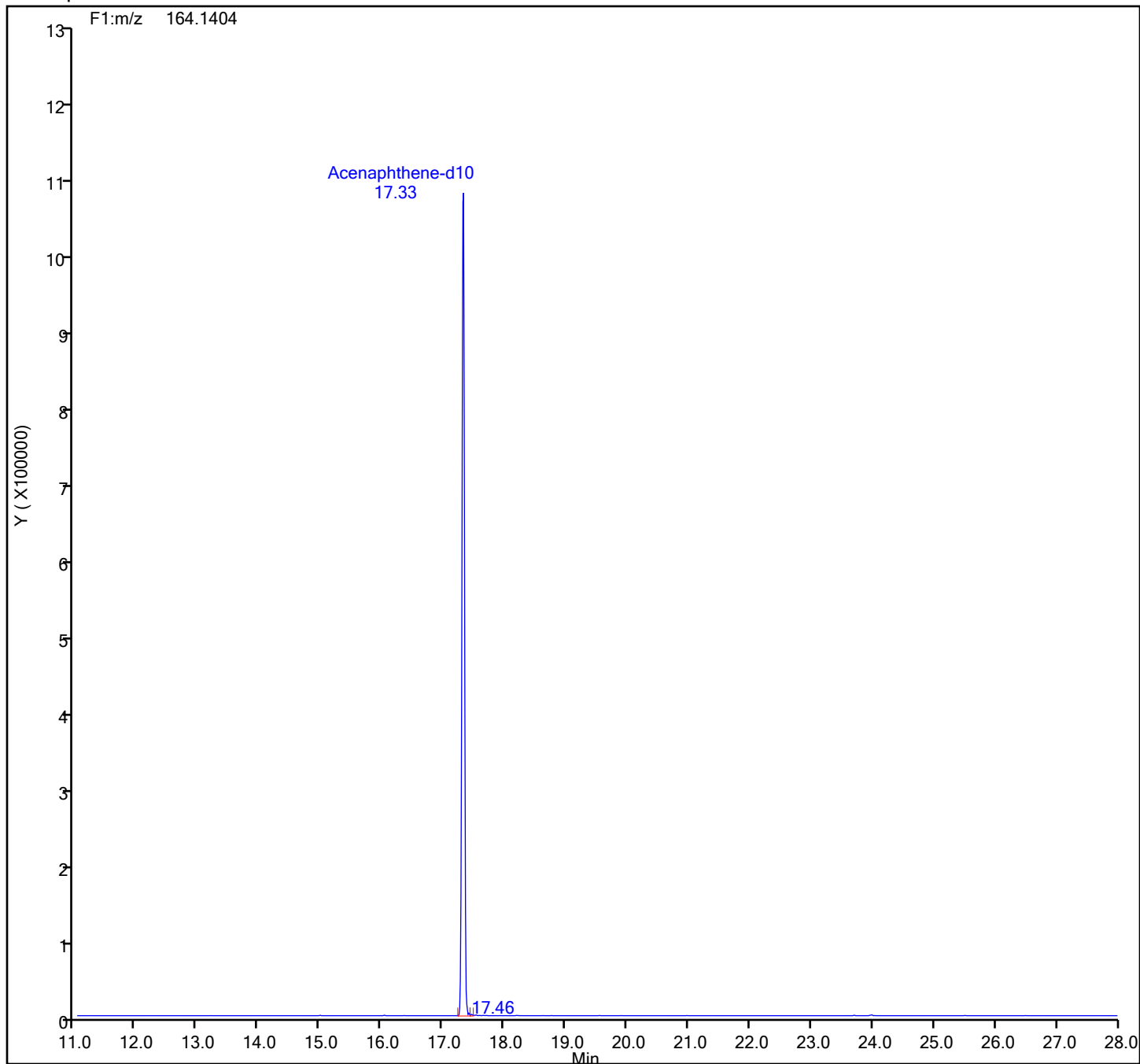
13C6-Acenaphthylene Standards



Eurofins Knoxville

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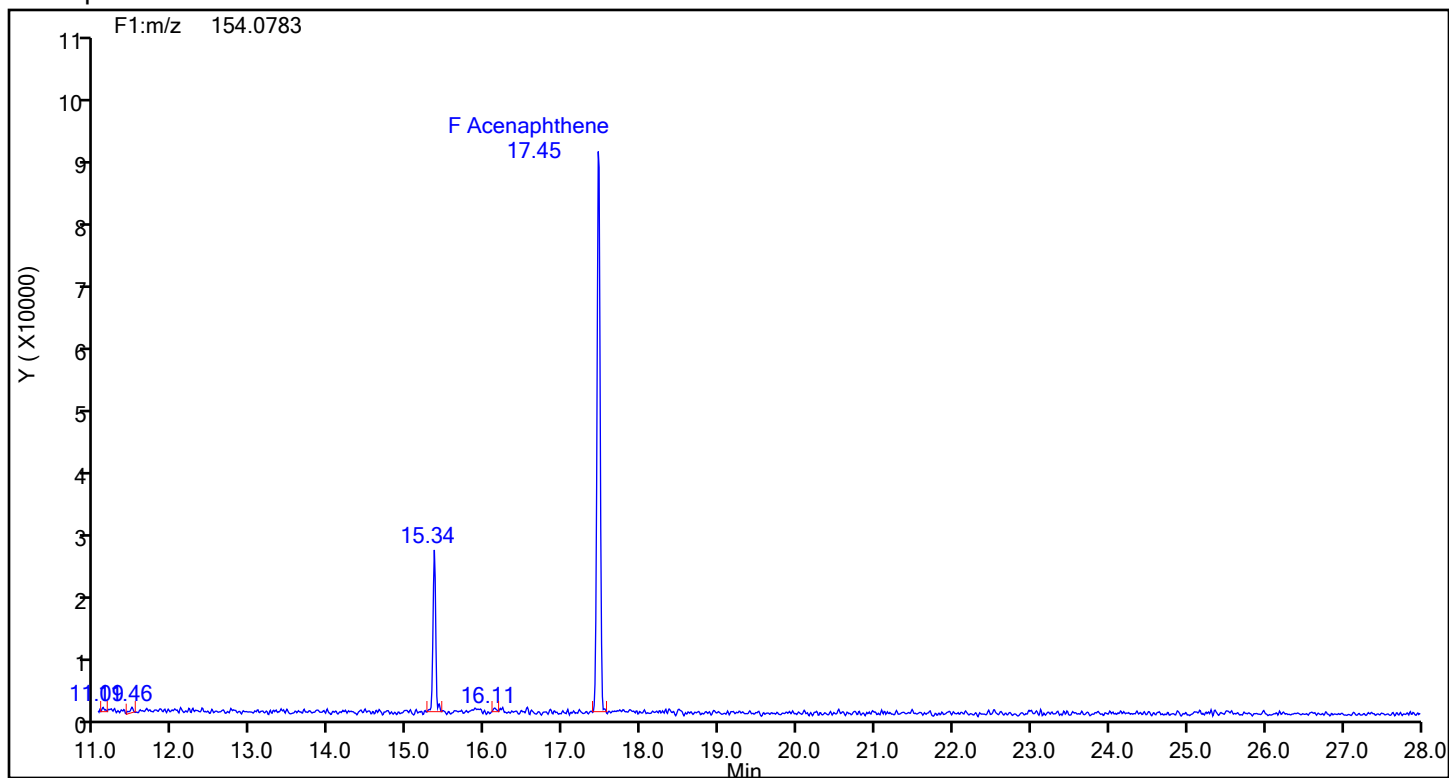
Acenaphthene-d10 Standards



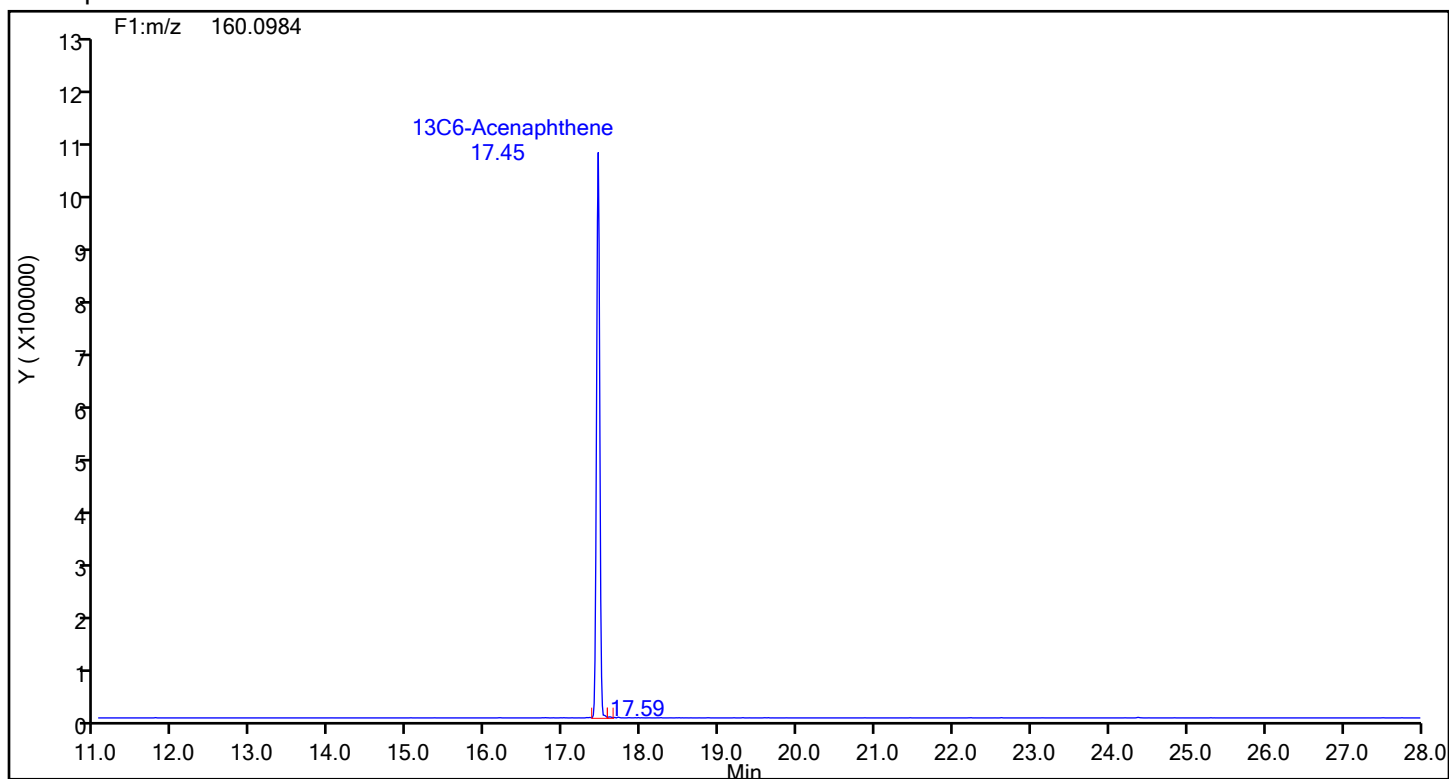
Eurofins Knoxville

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Acenaphthene



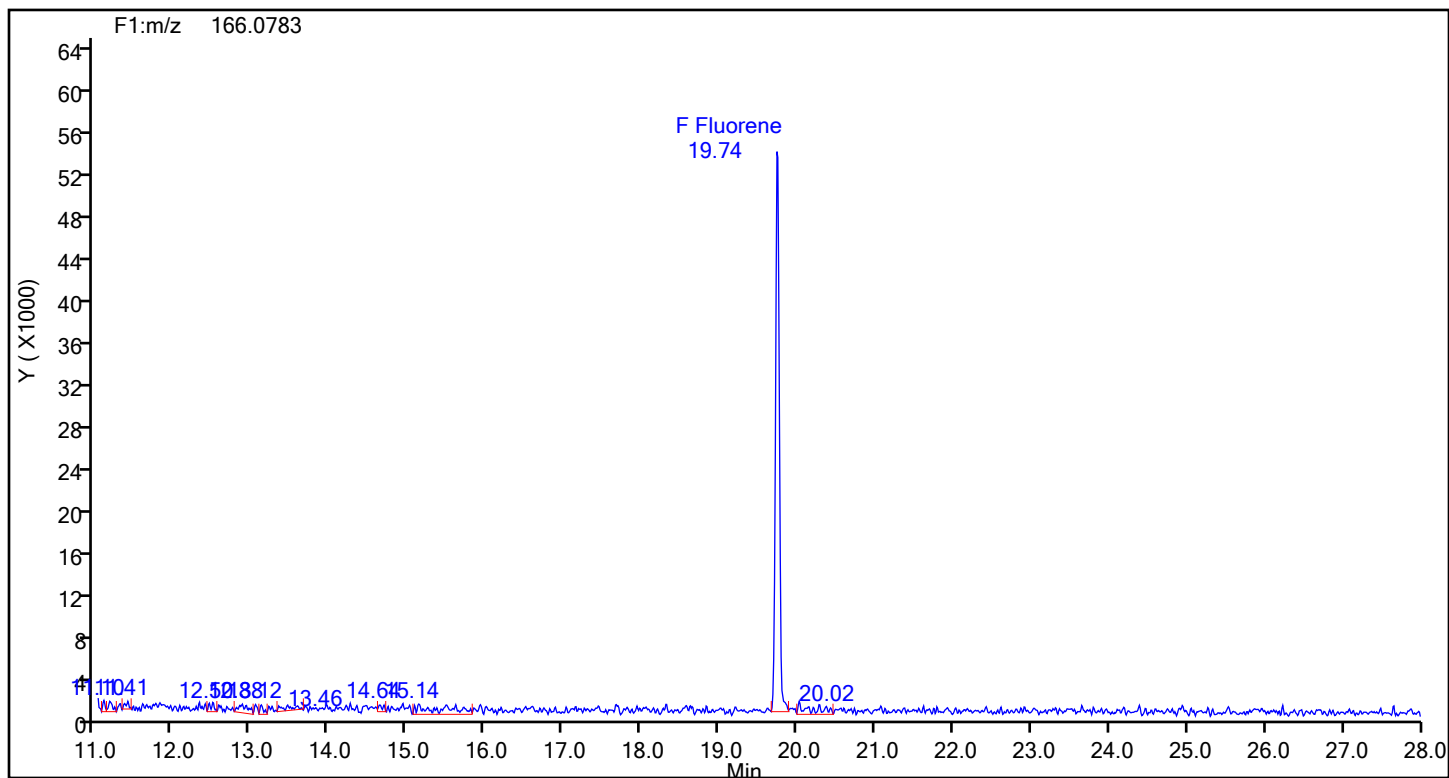
Acenaphthene Standards



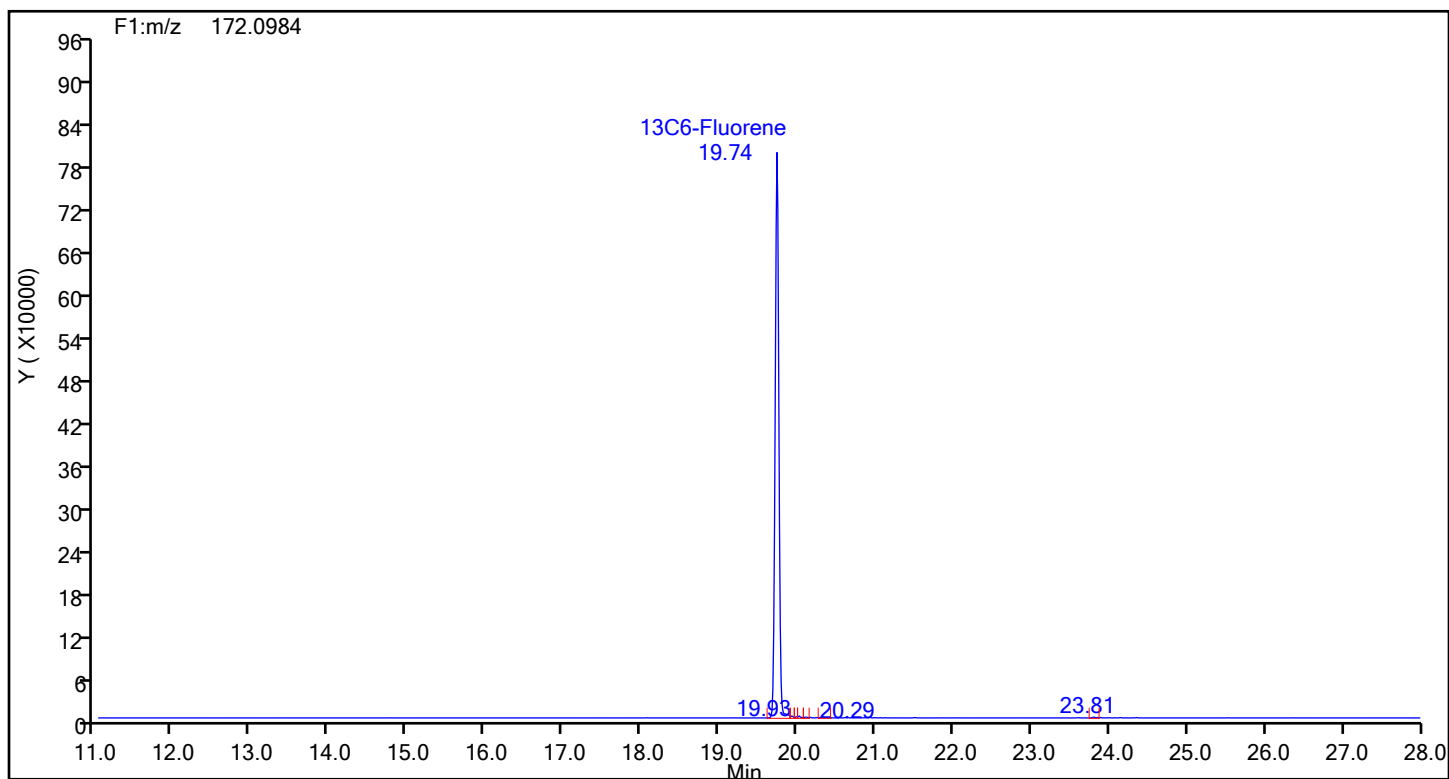
Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

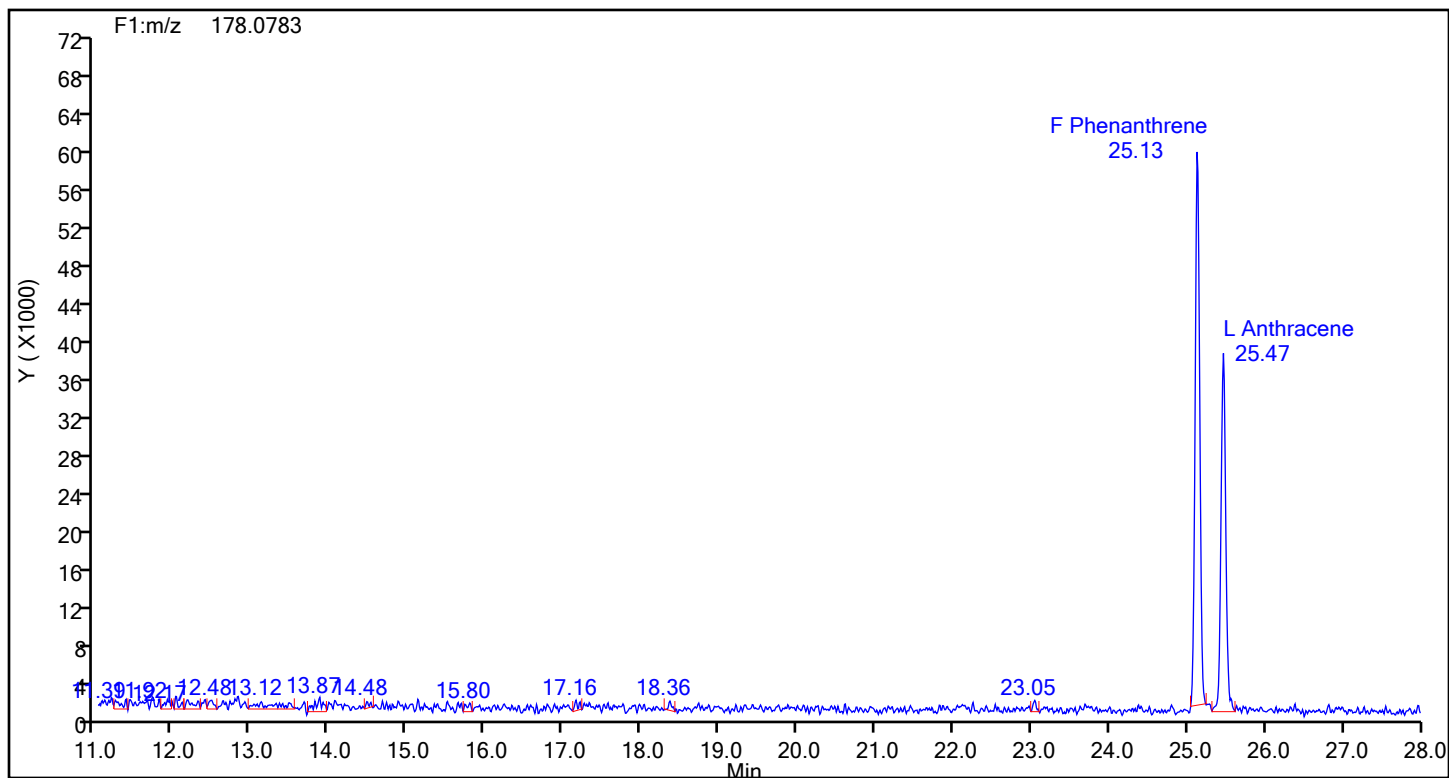


Fluorene Standards

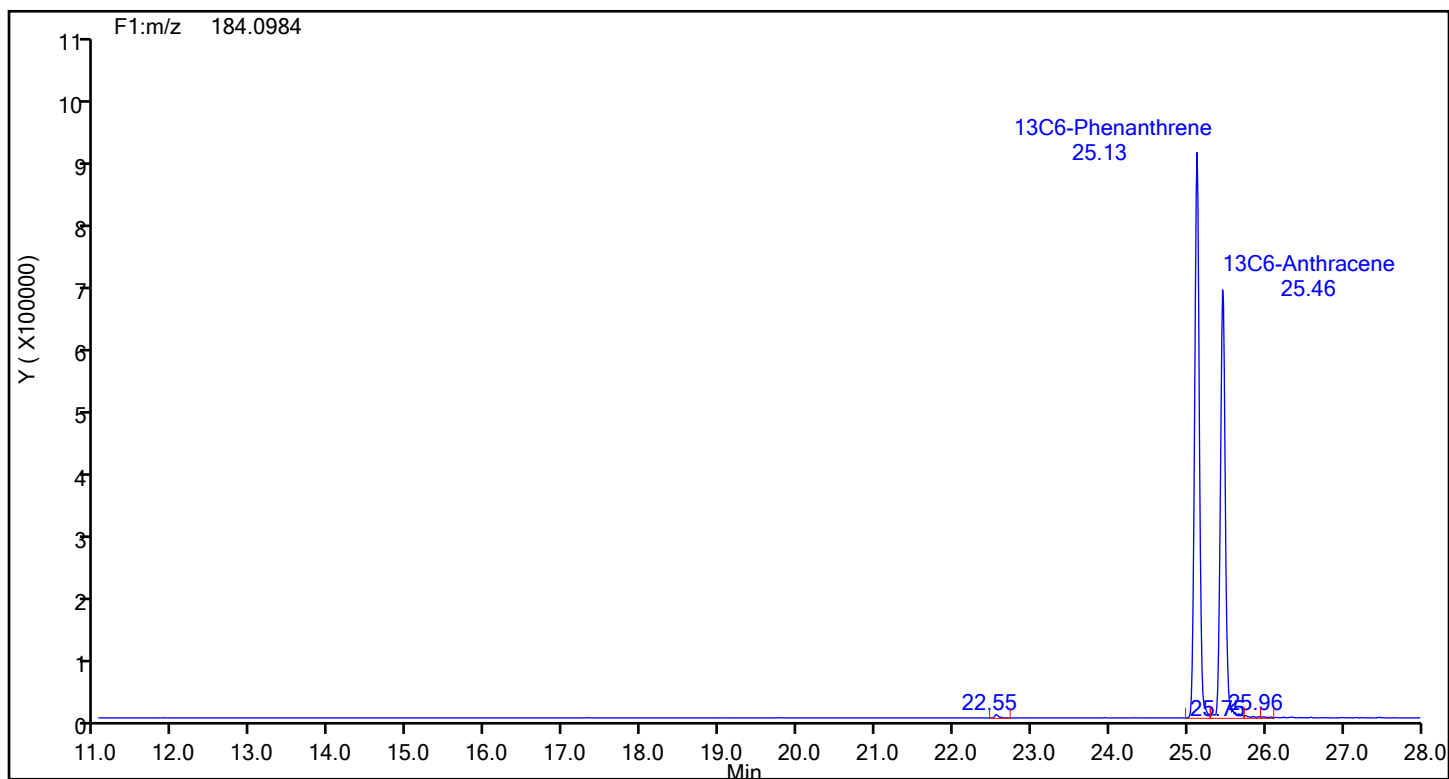


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Phenanthrene

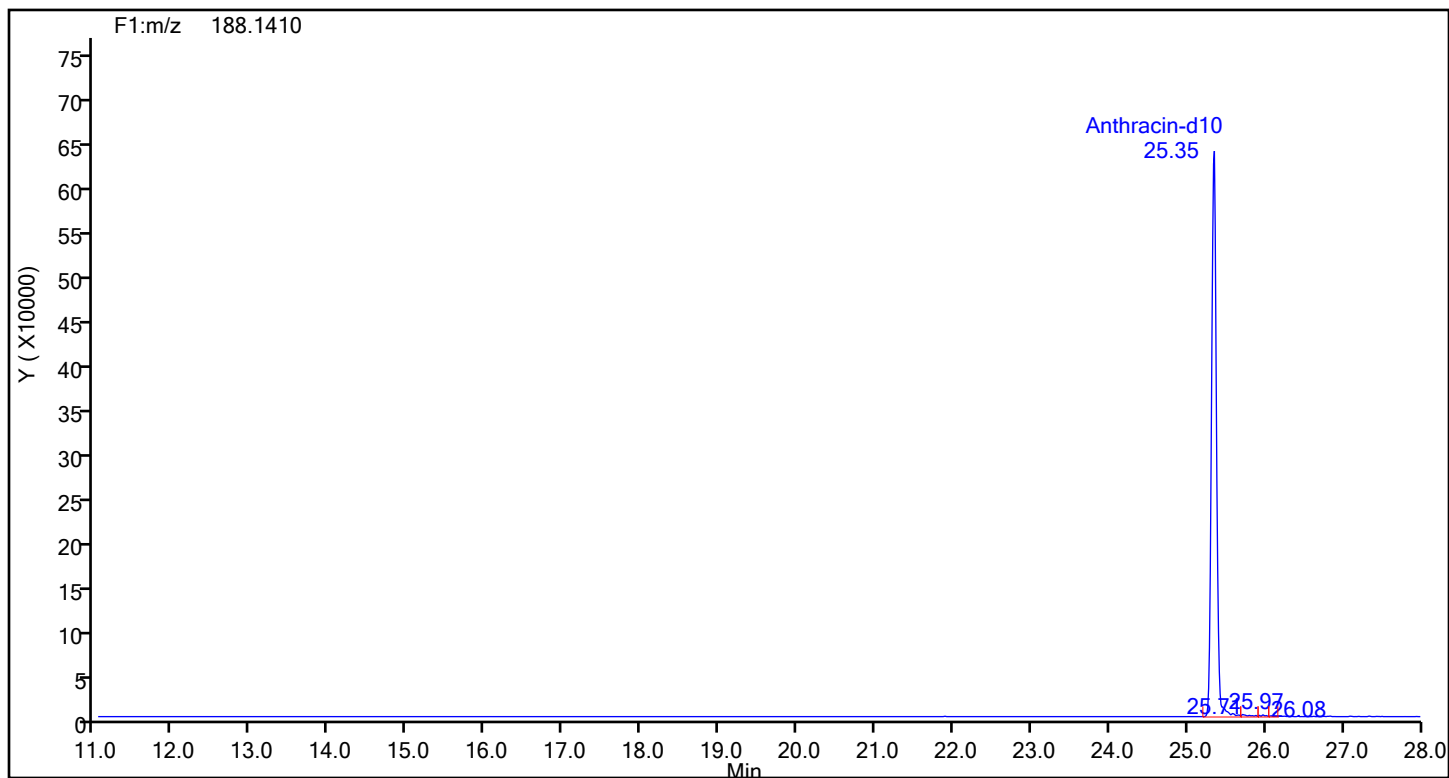


Phenanthrene Standards

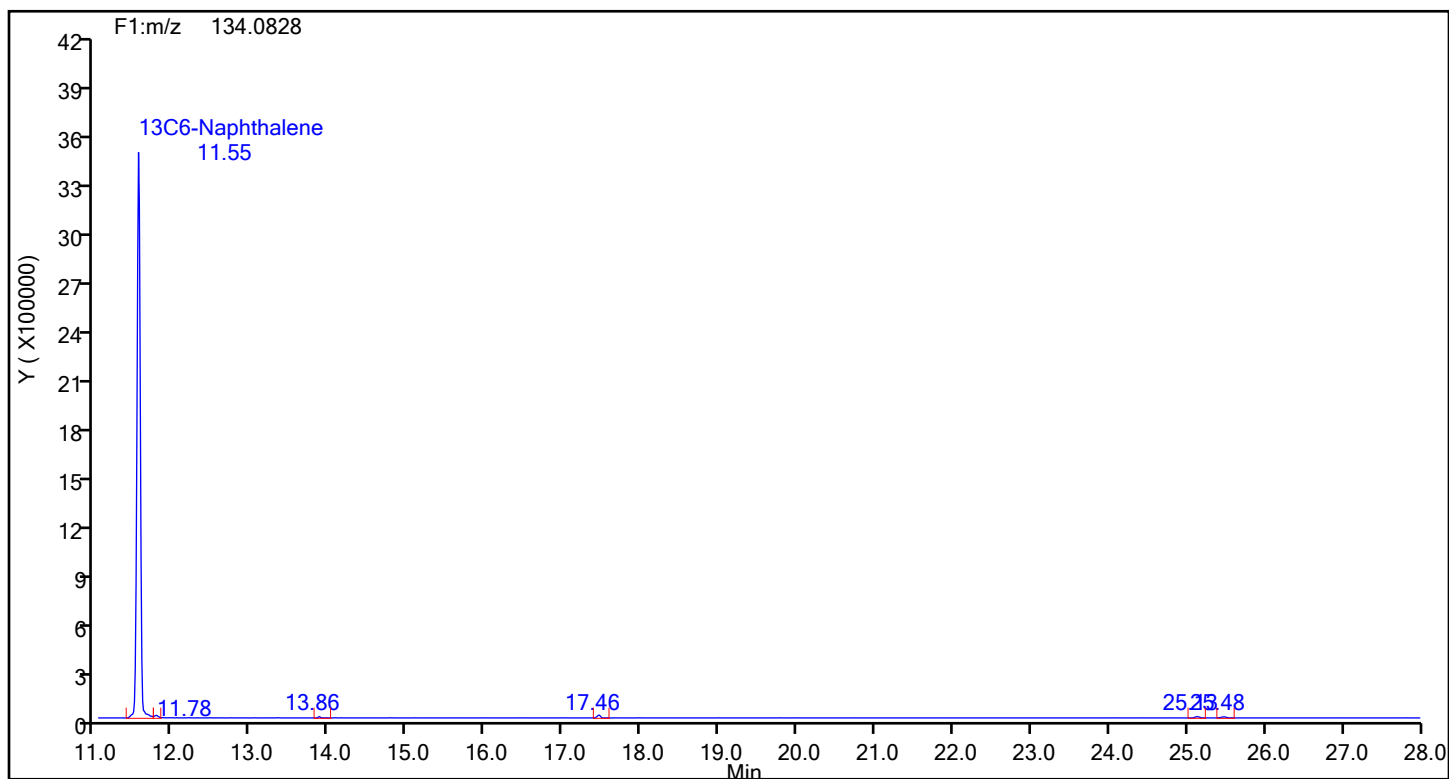


Eurofins Knoxville

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Anthracin-d10

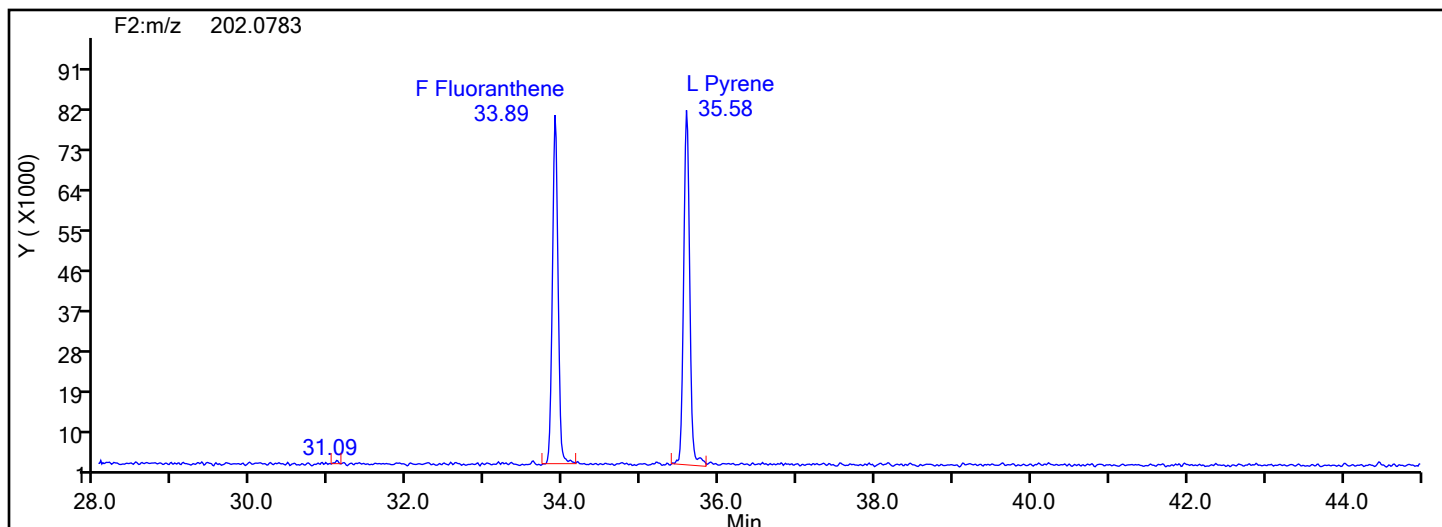


Anthracin-d10 Standards

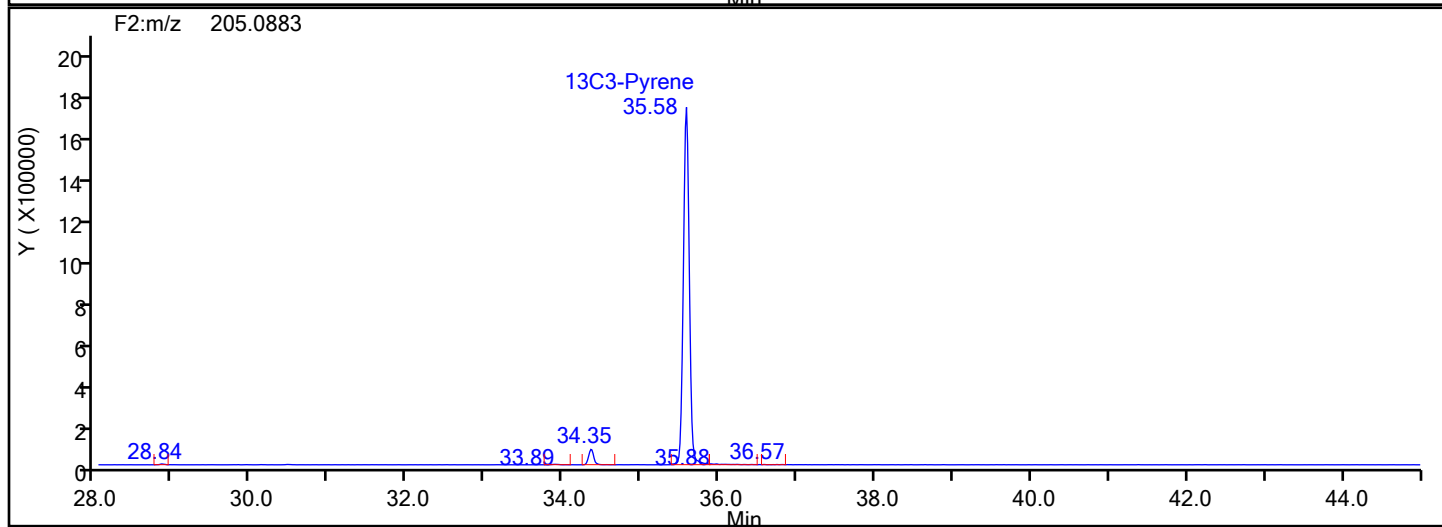
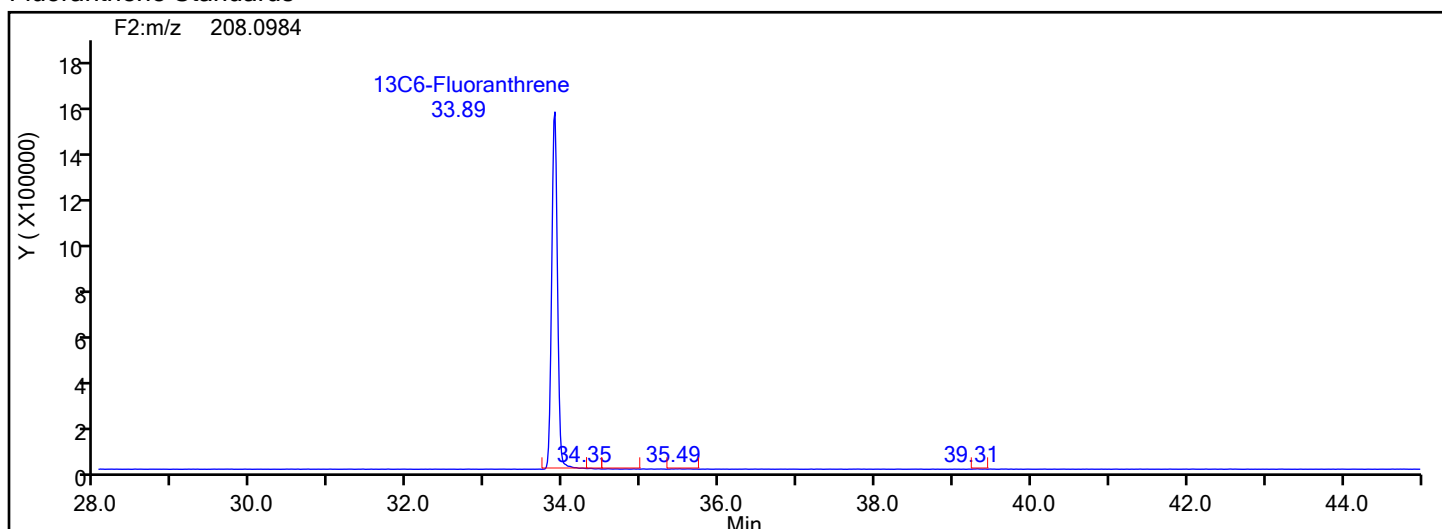


Eurofins Knoxville

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Fluoranthene



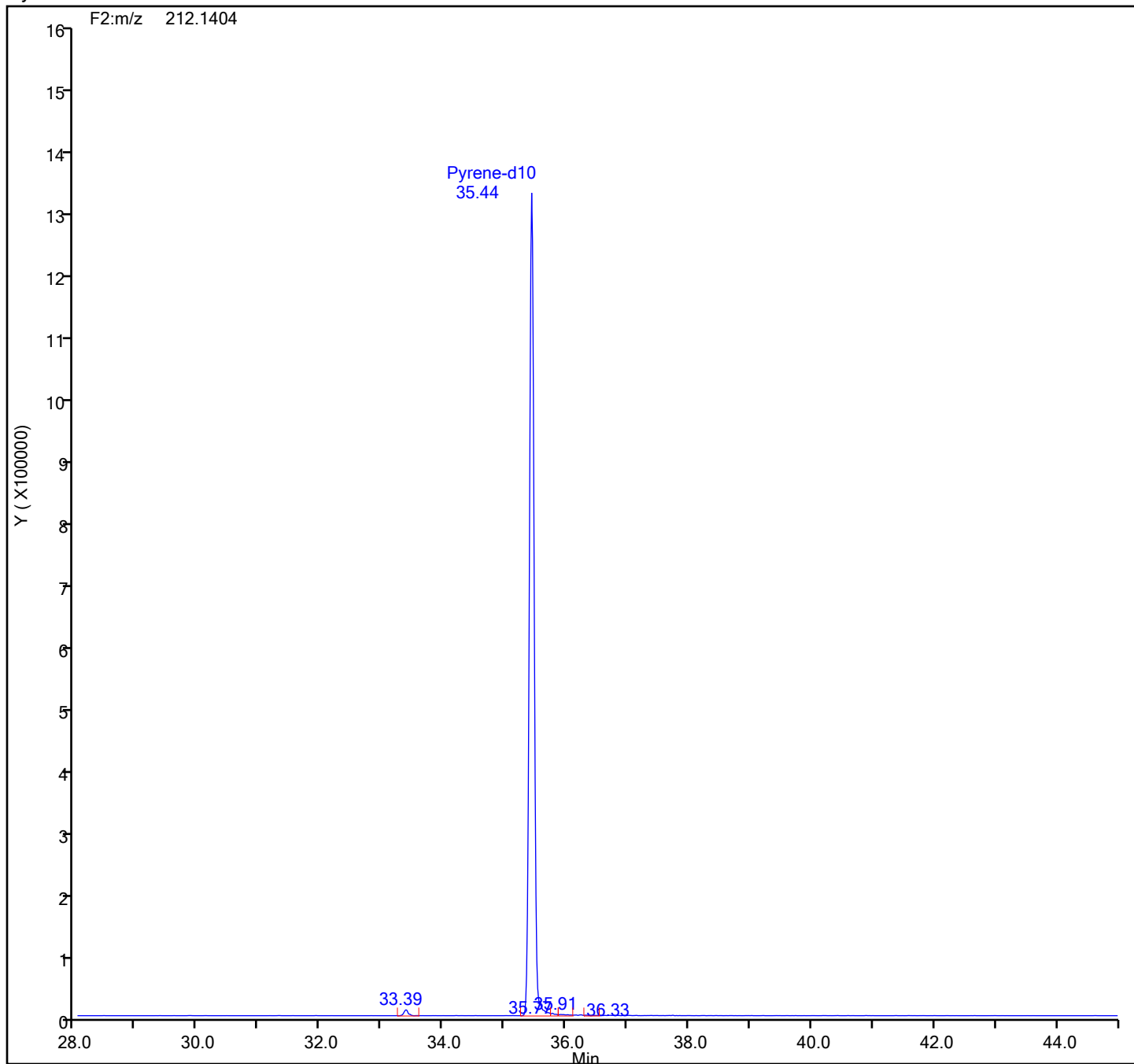
Fluoranthene Standards



Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

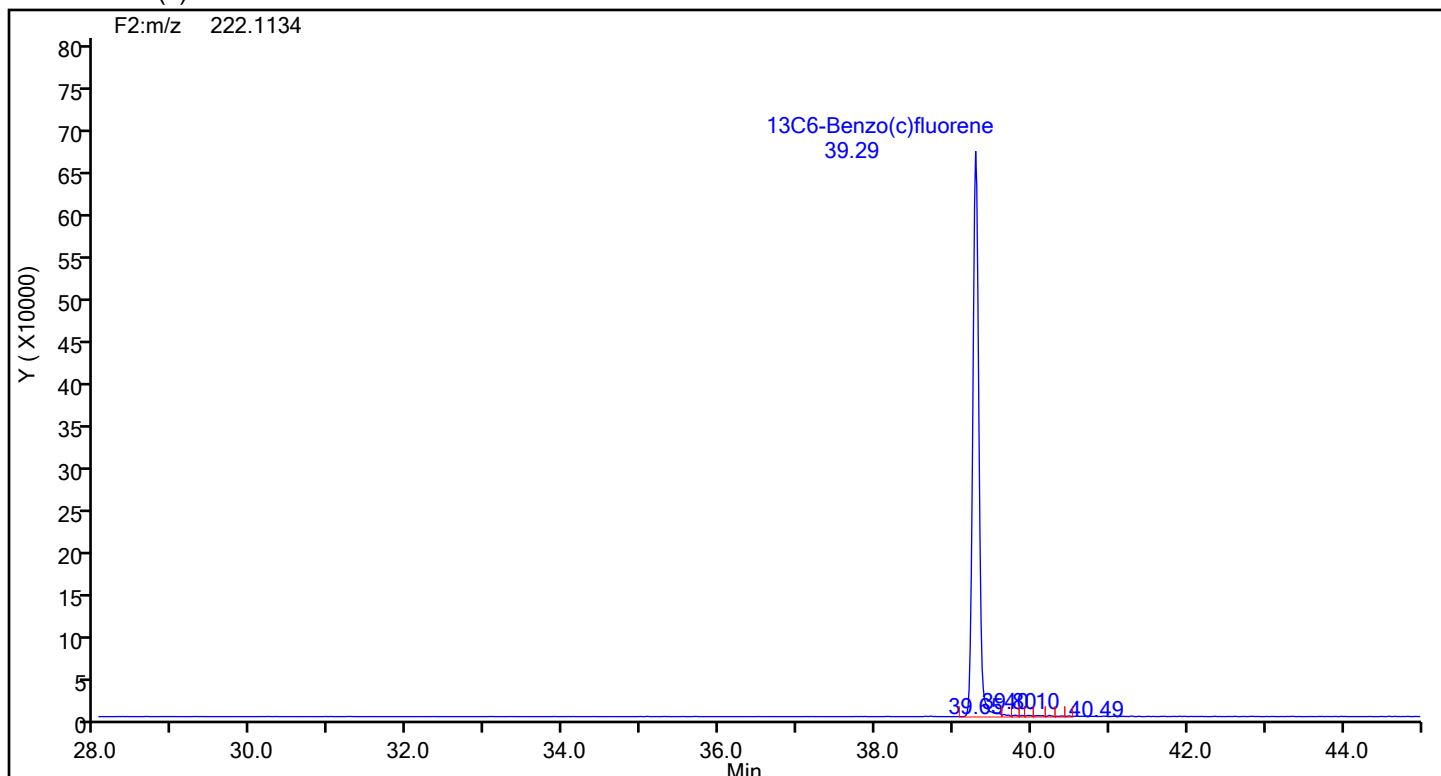
Pyrene-d10 Standards



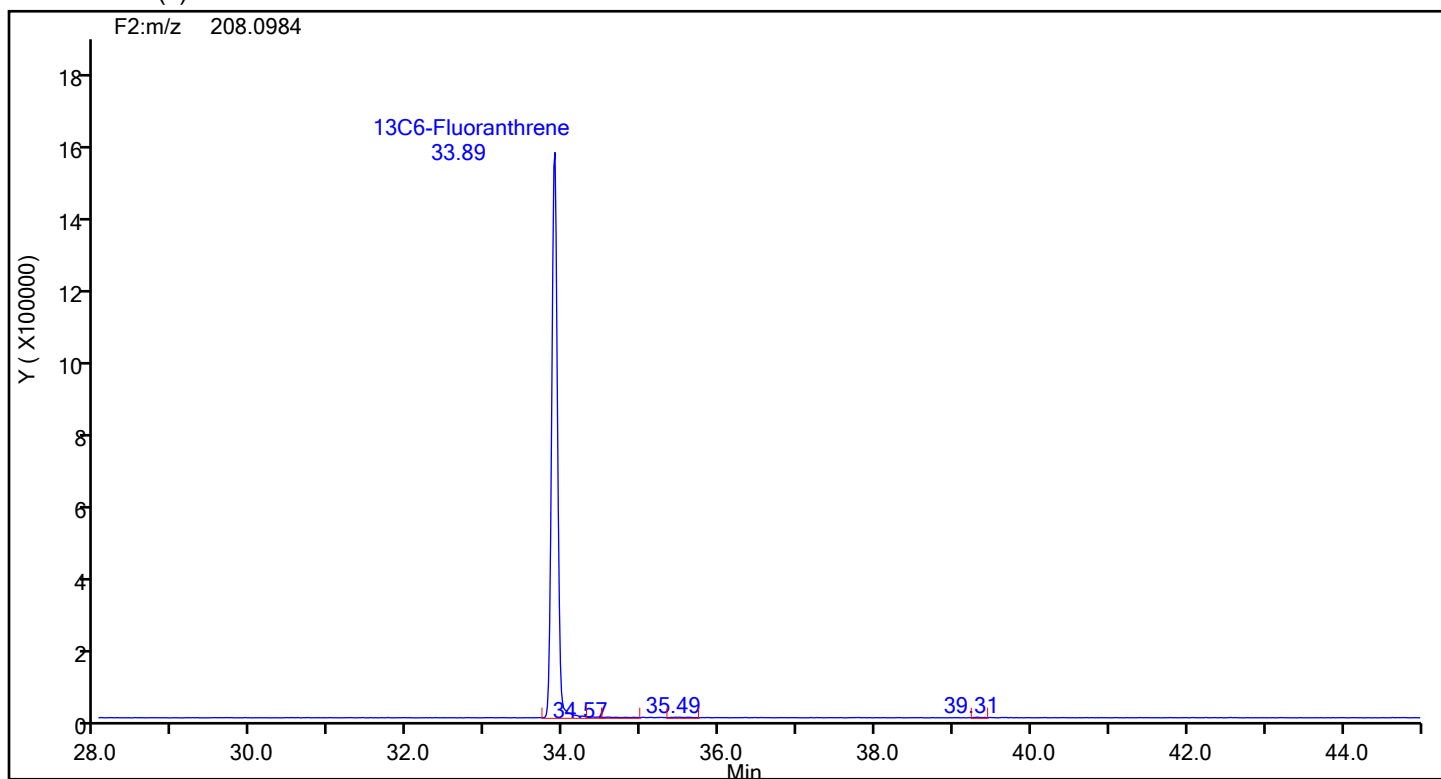
Eurofins Knoxville

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13C6-Benzo(c)fluorene



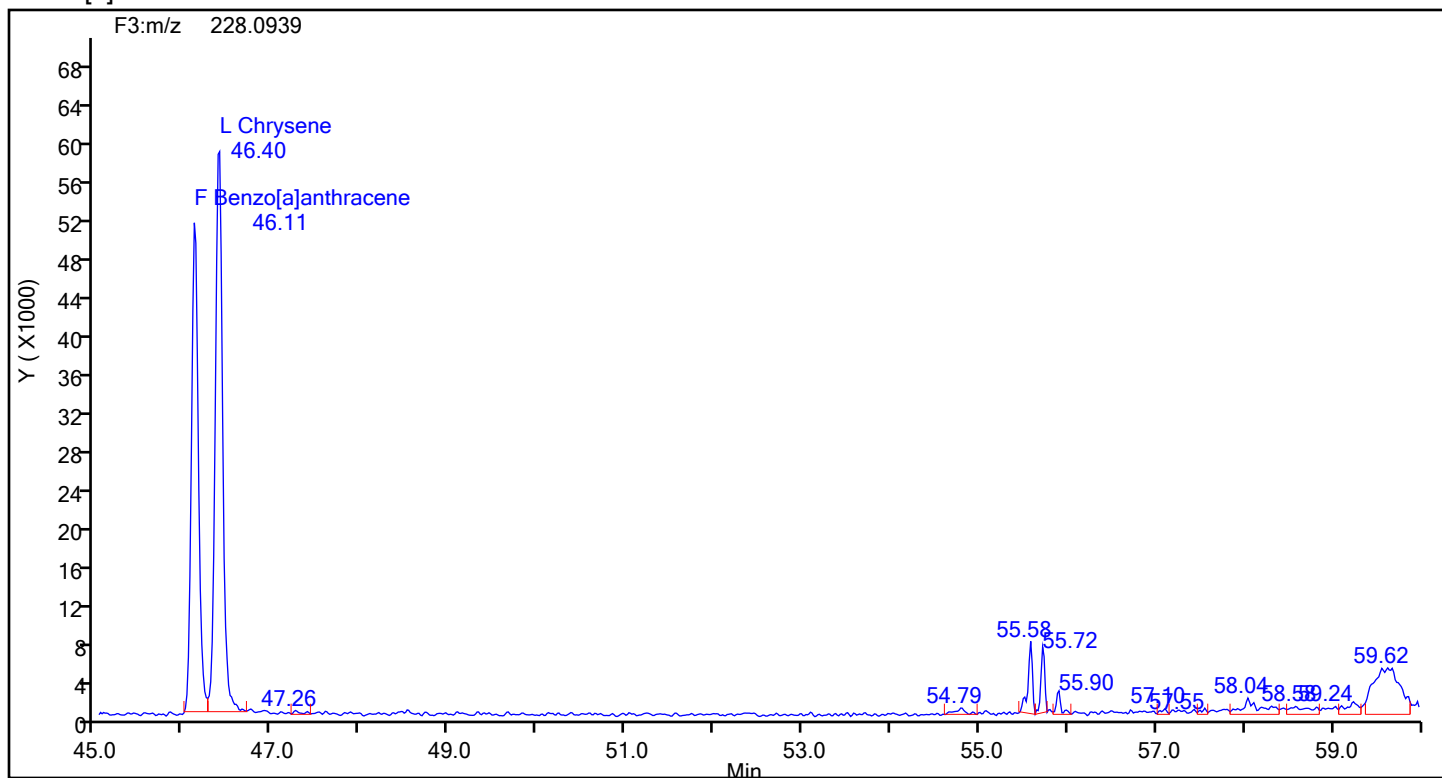
13C6-Benzo(c)fluorene Standards



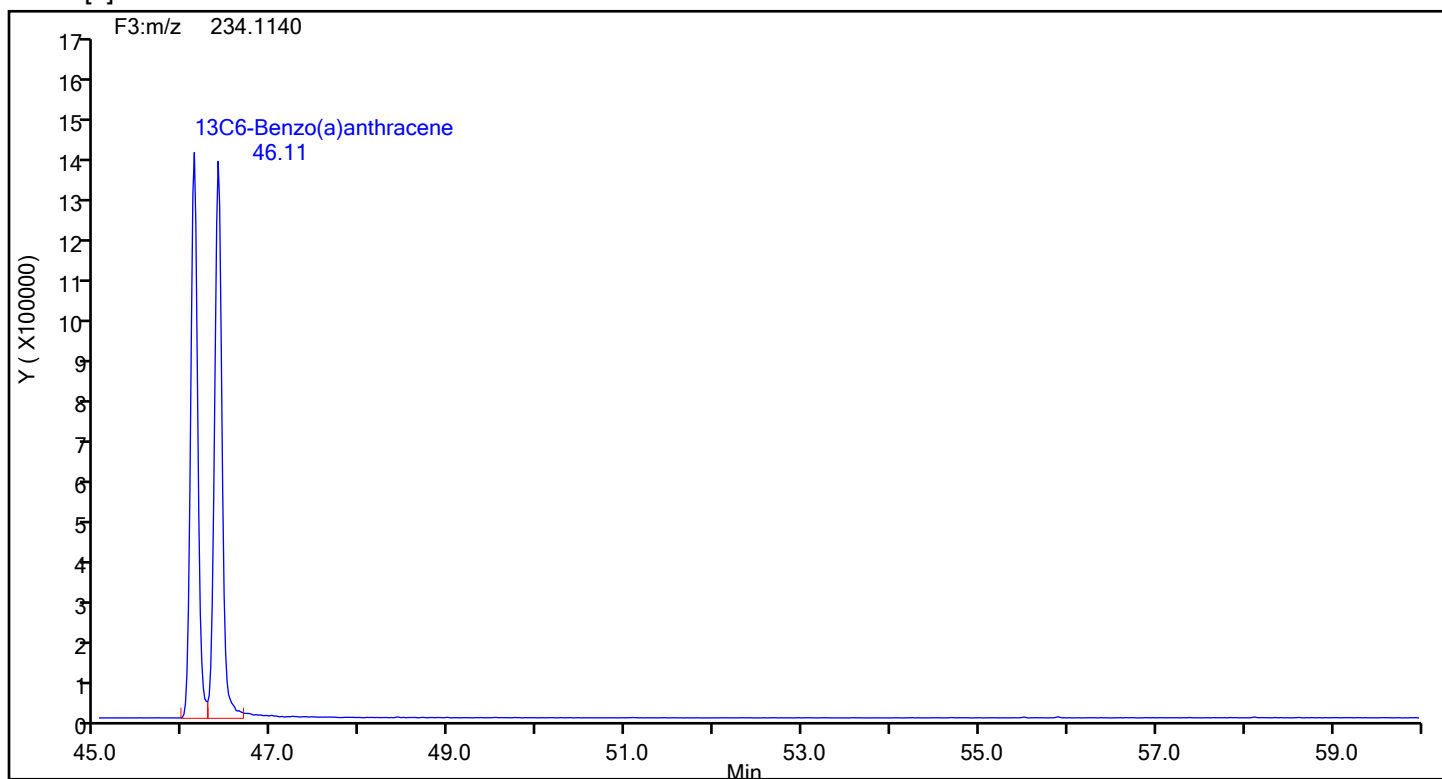
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



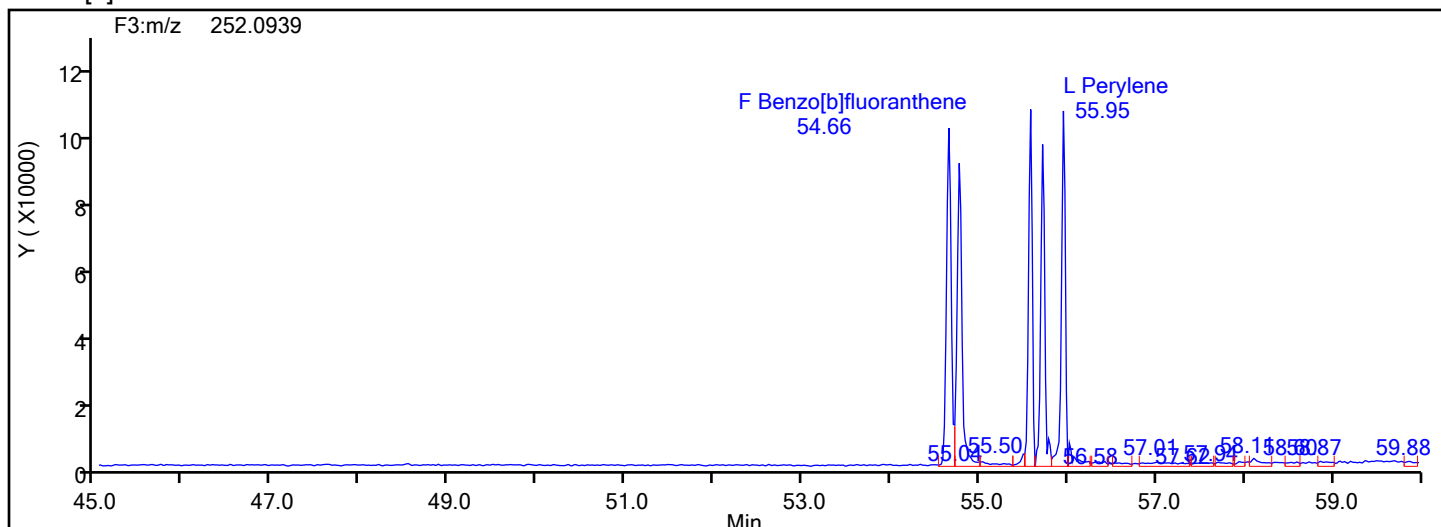
Benzo[a]anthracene Standards



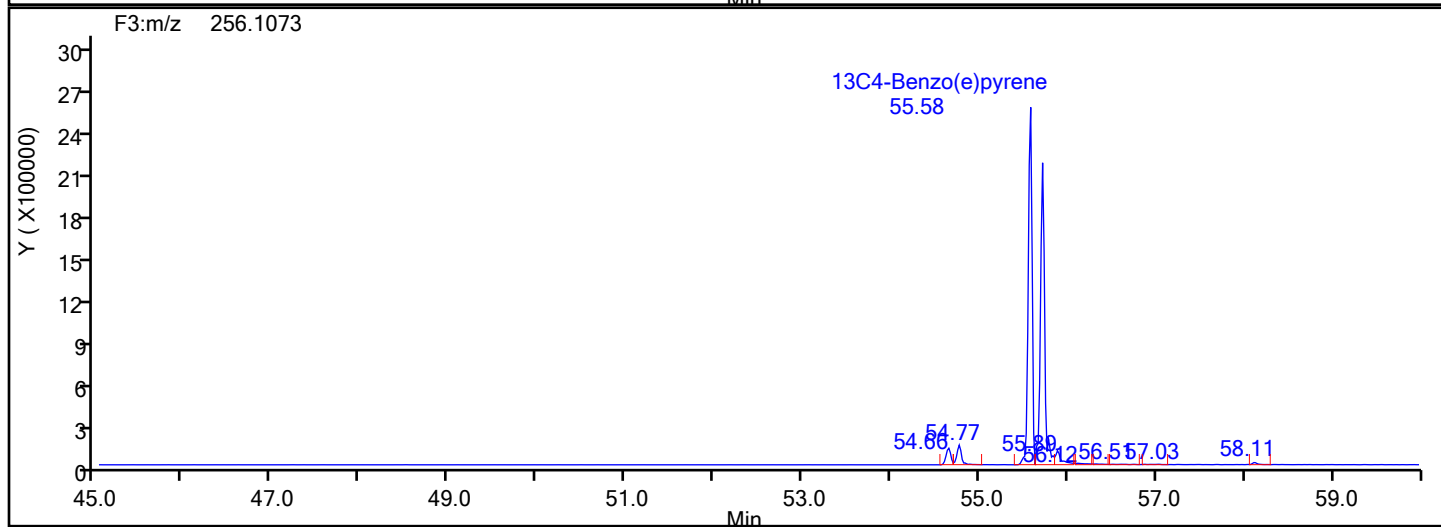
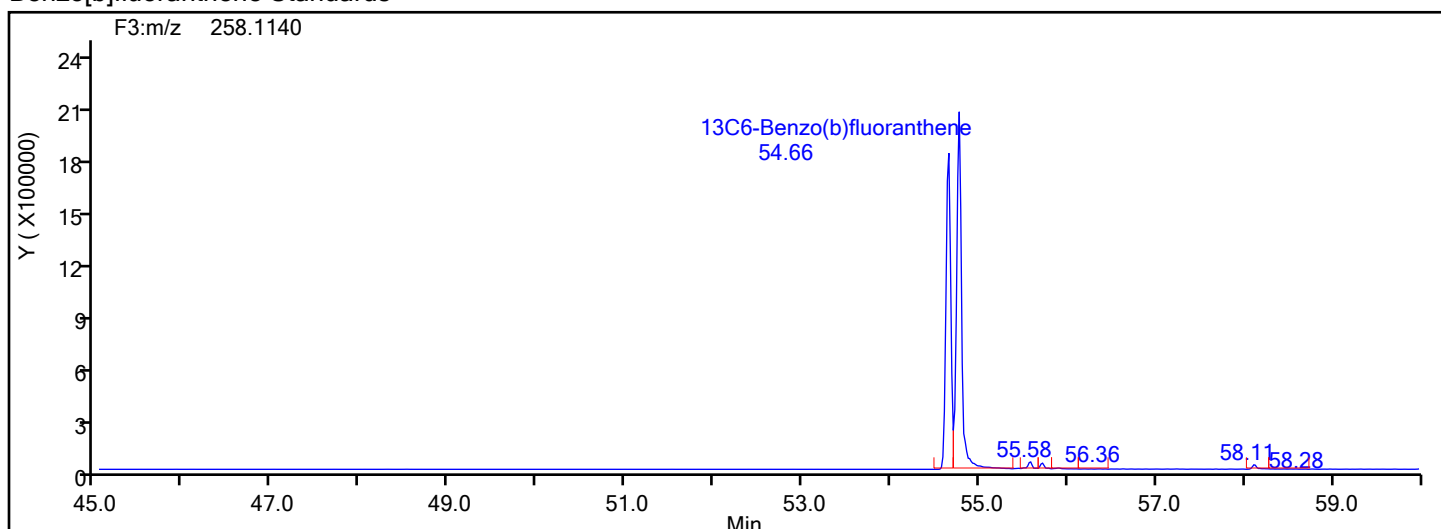
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



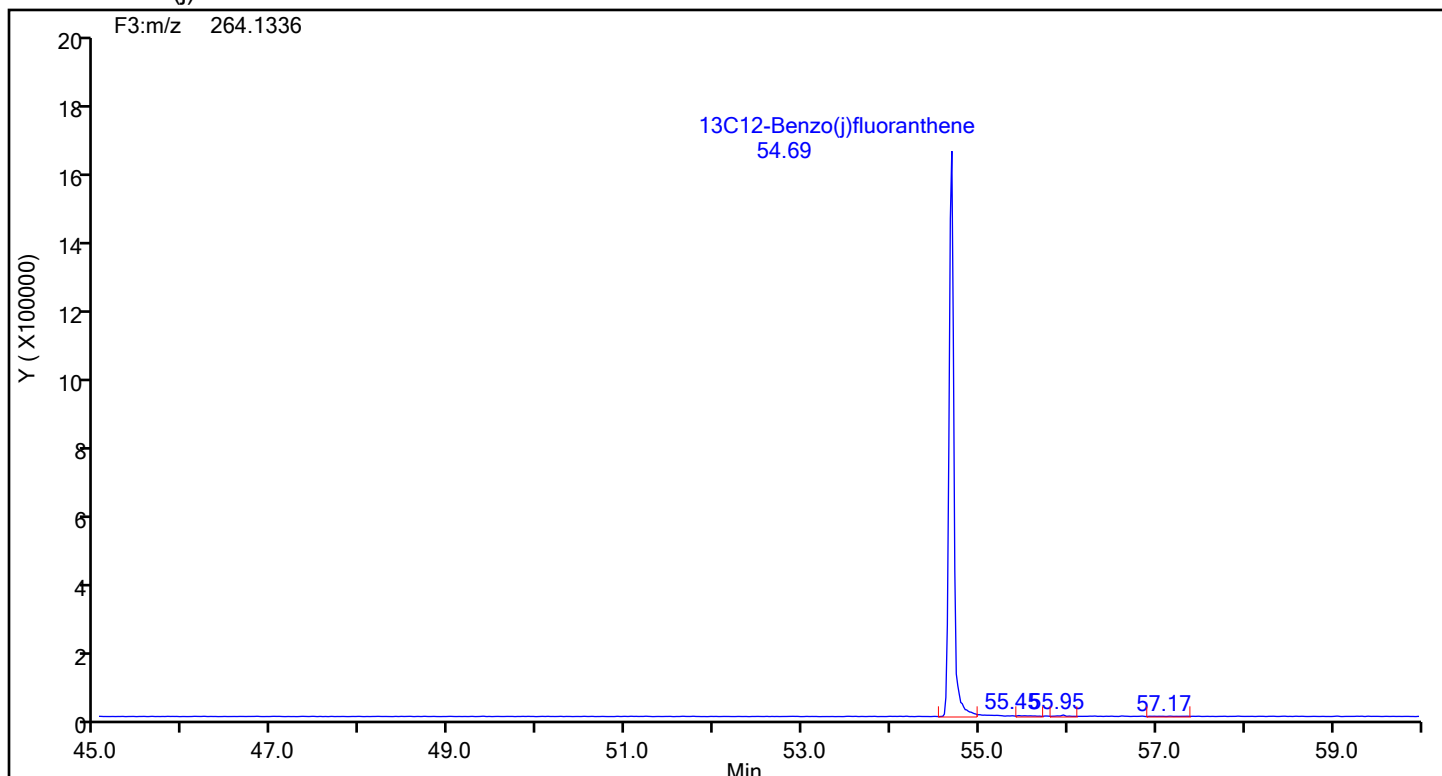
Benzo[b]fluoranthene Standards



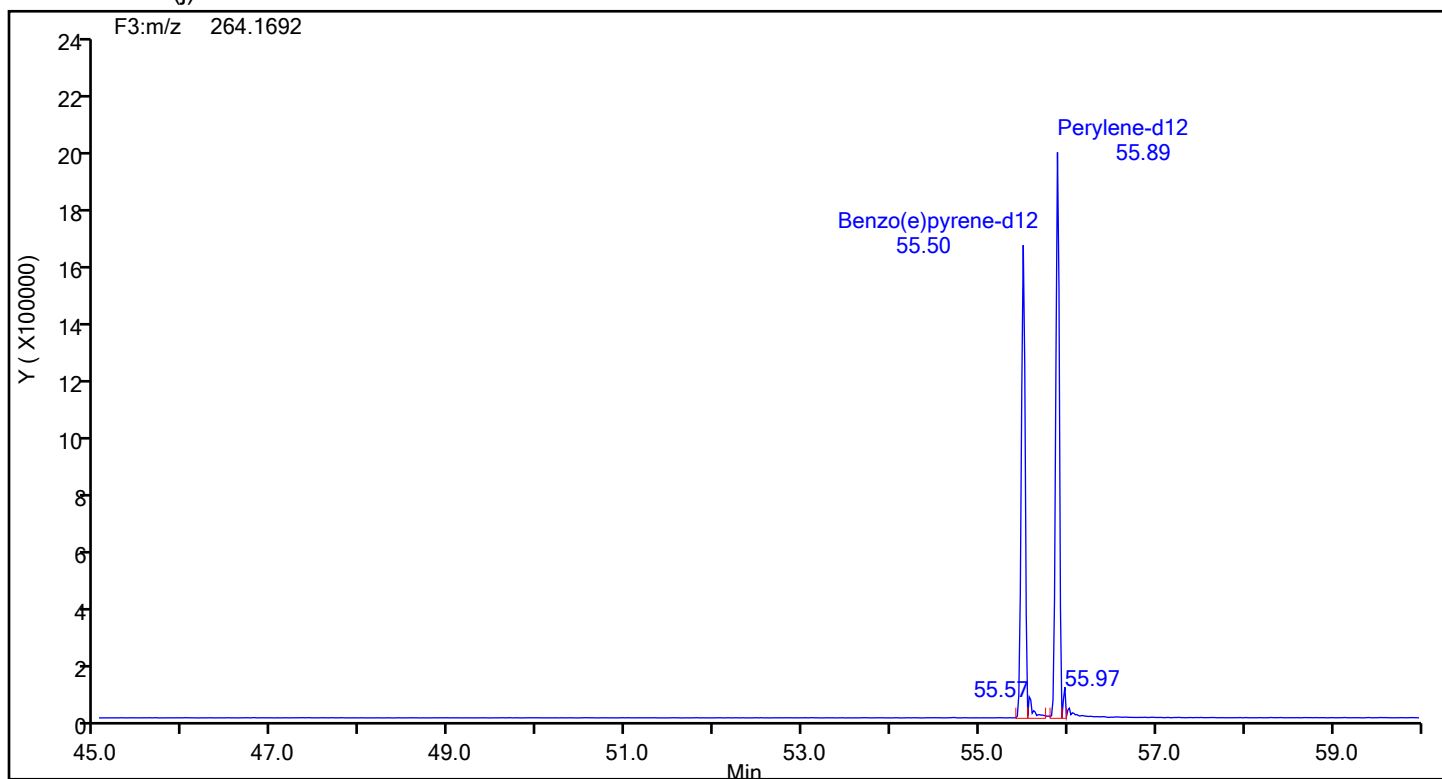
Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



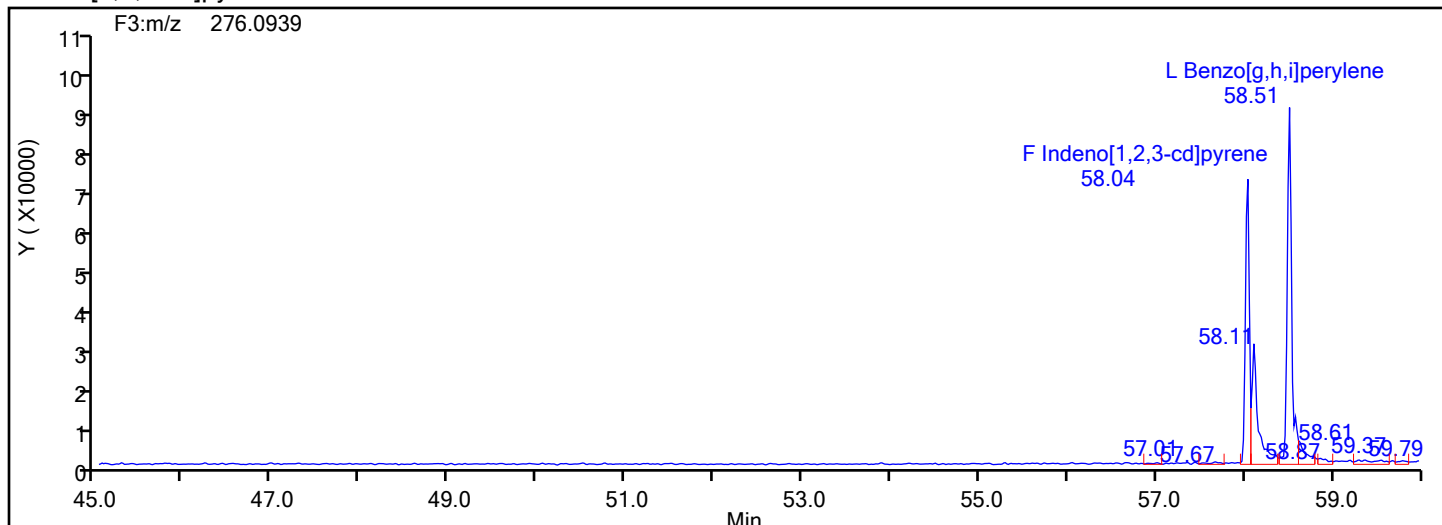
13C12-Benzo(j)fluoranthene Standards



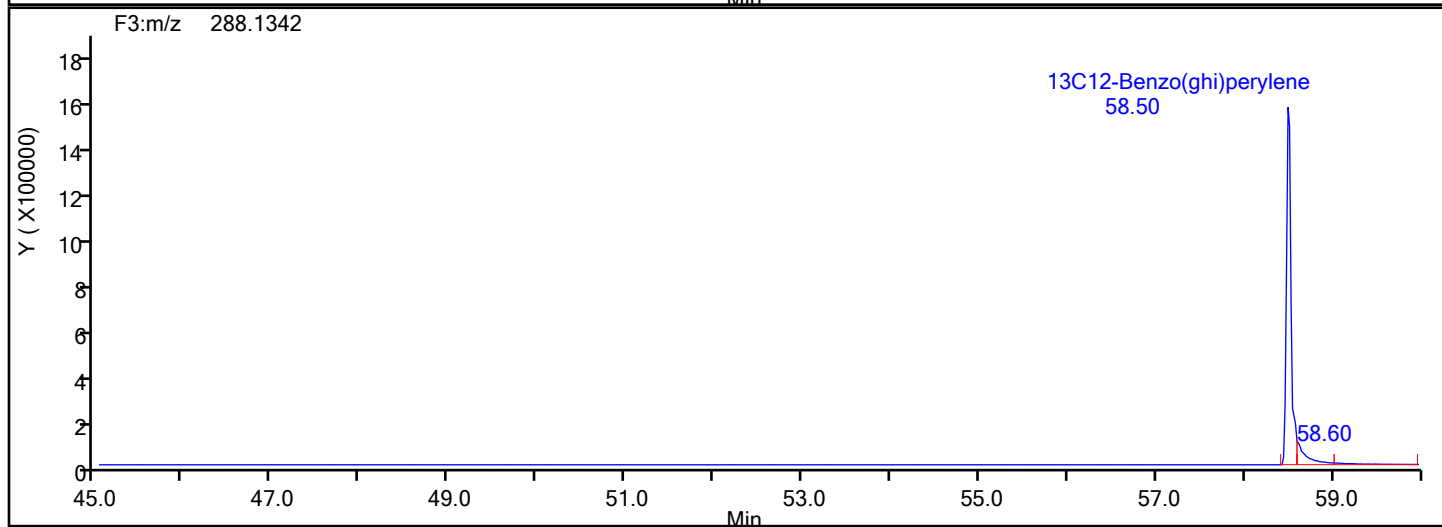
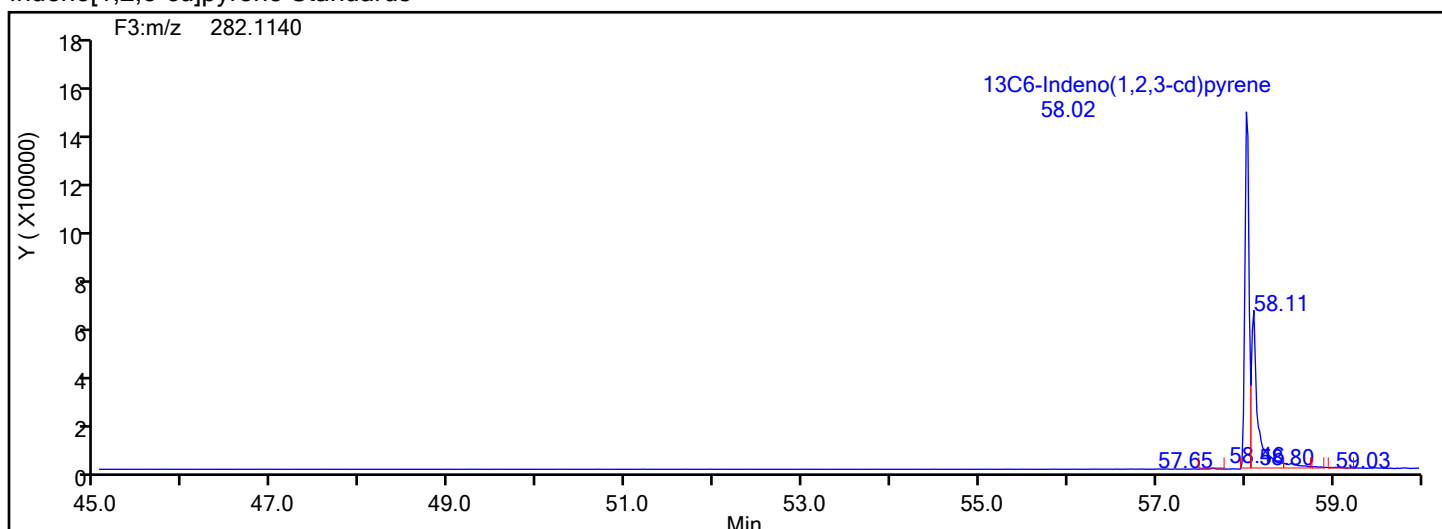
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Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

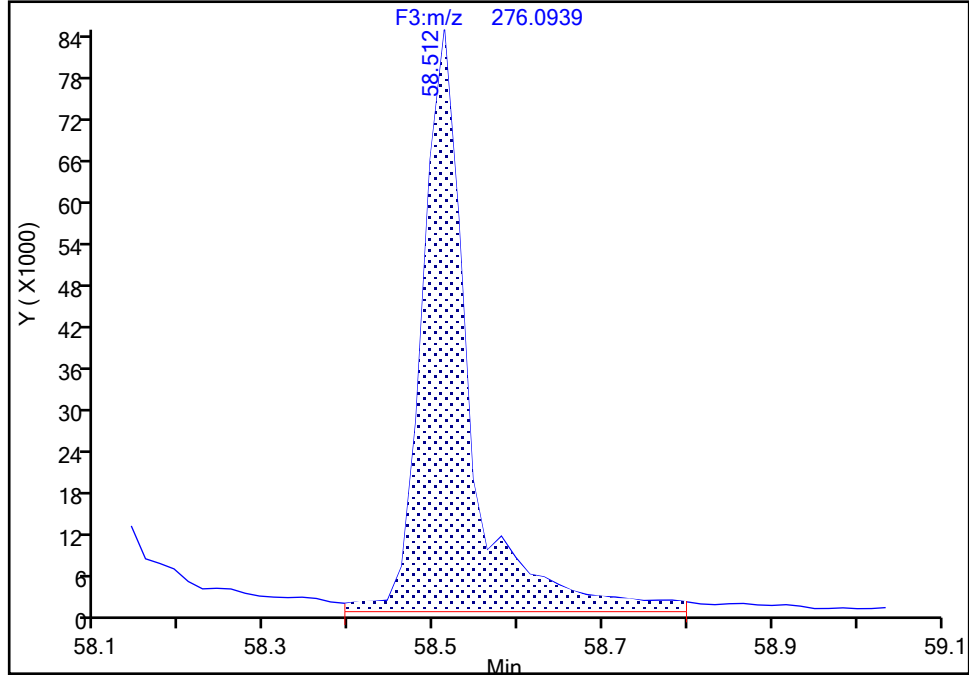
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Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

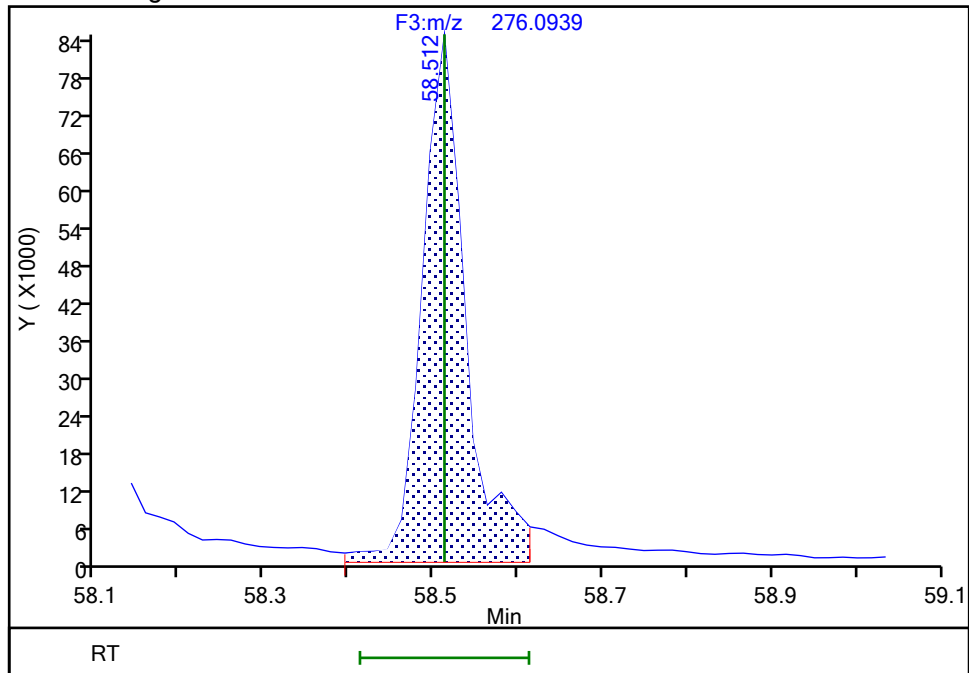
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Amount: 4.272168
Amount Units: pg/ul

Processing Integration Results



RT: 58.51
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Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:12 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

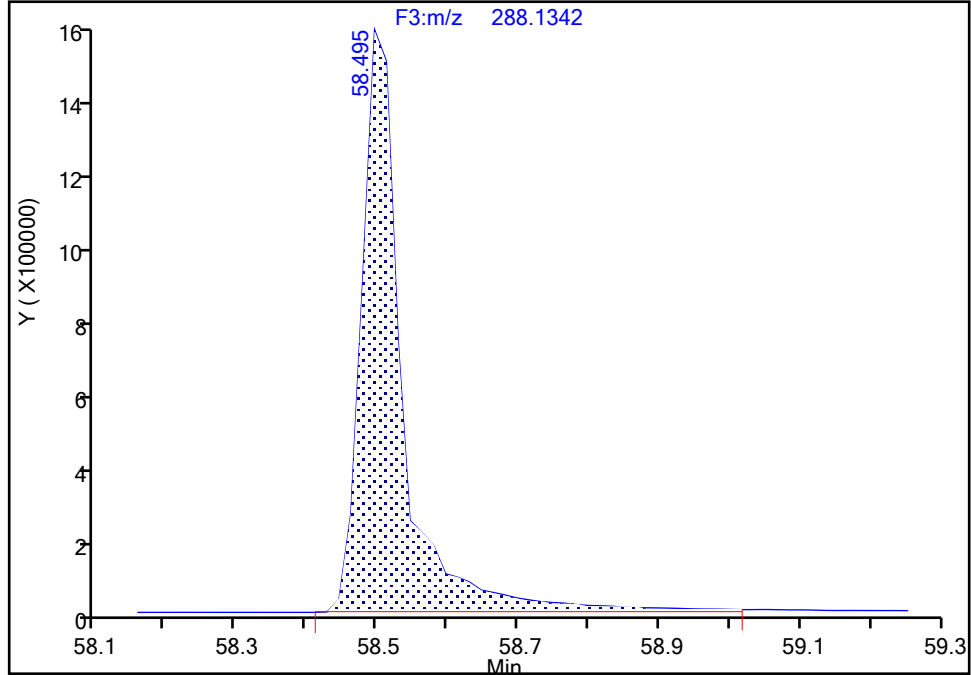
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Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

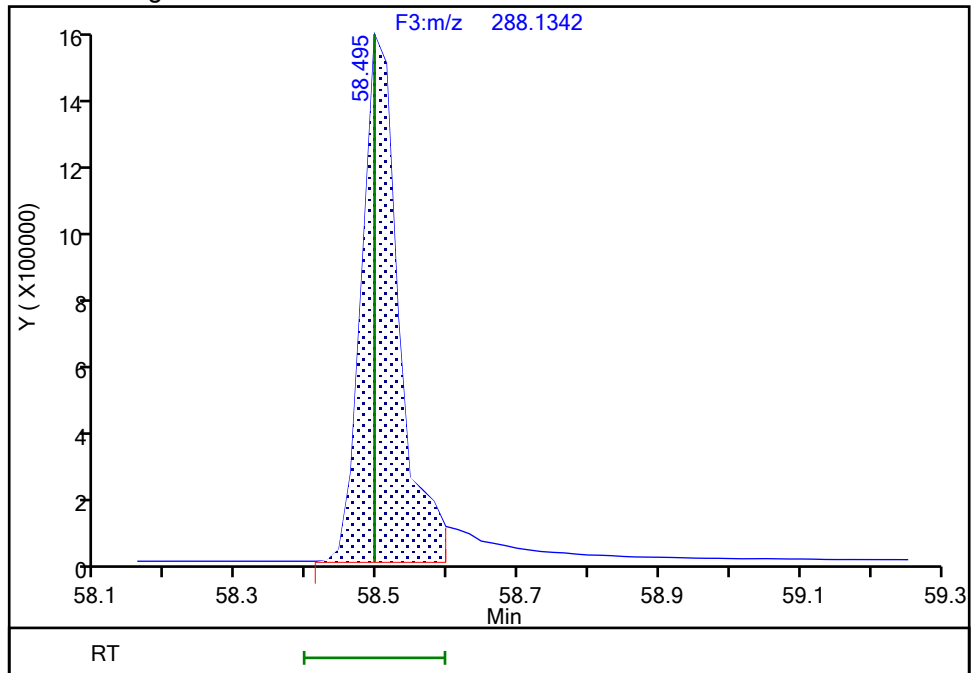
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Processing Integration Results



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Manual Integration Results



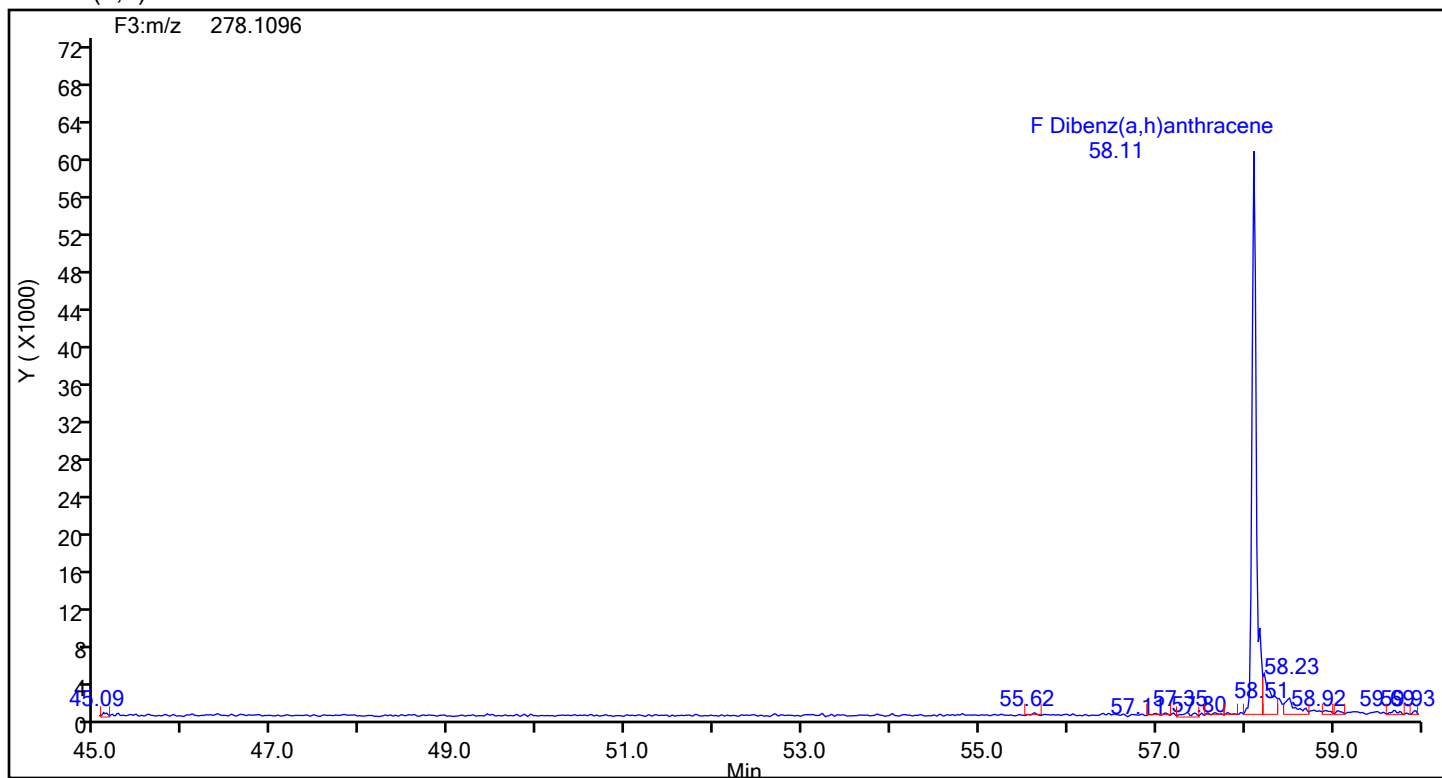
Reviewer: F9EE, 20-Jun-2024 09:35:05 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

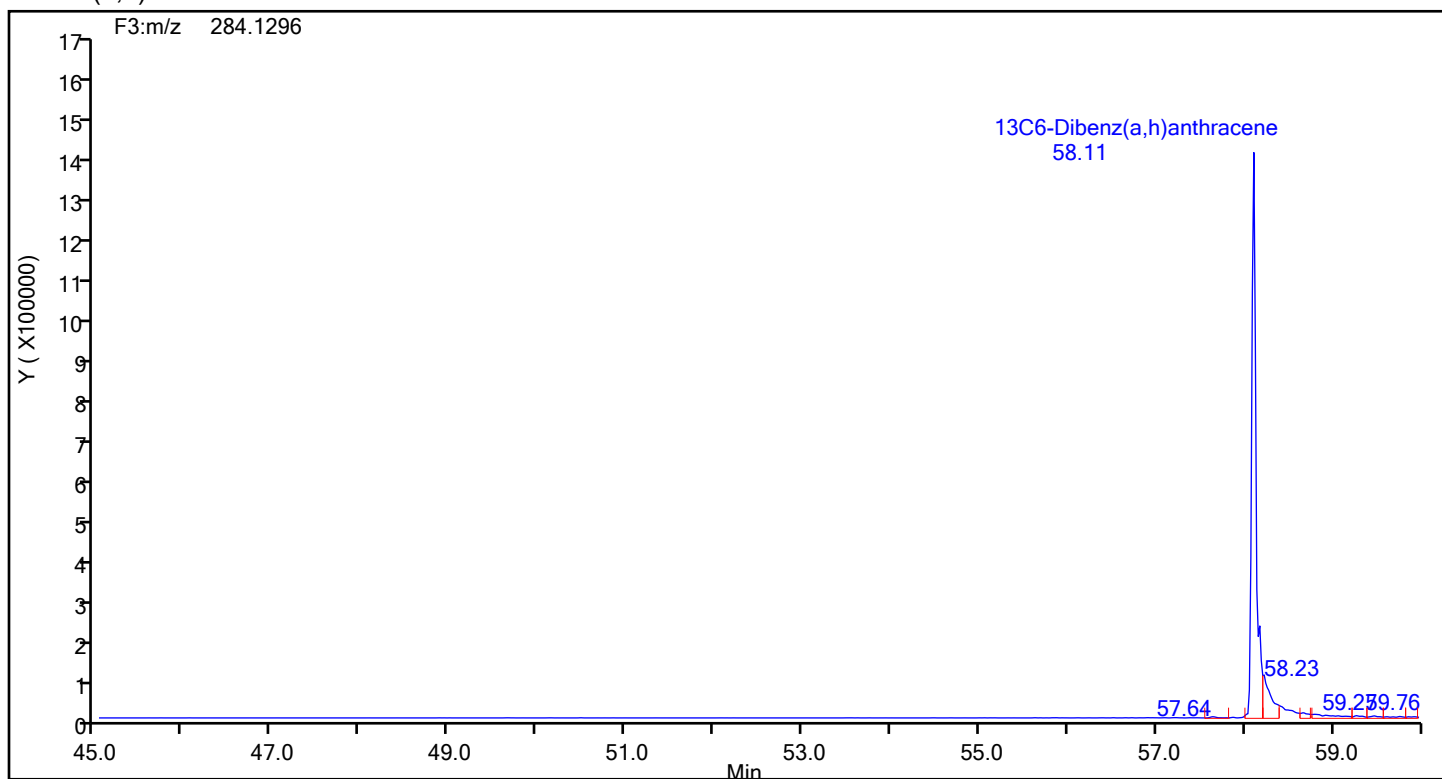
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

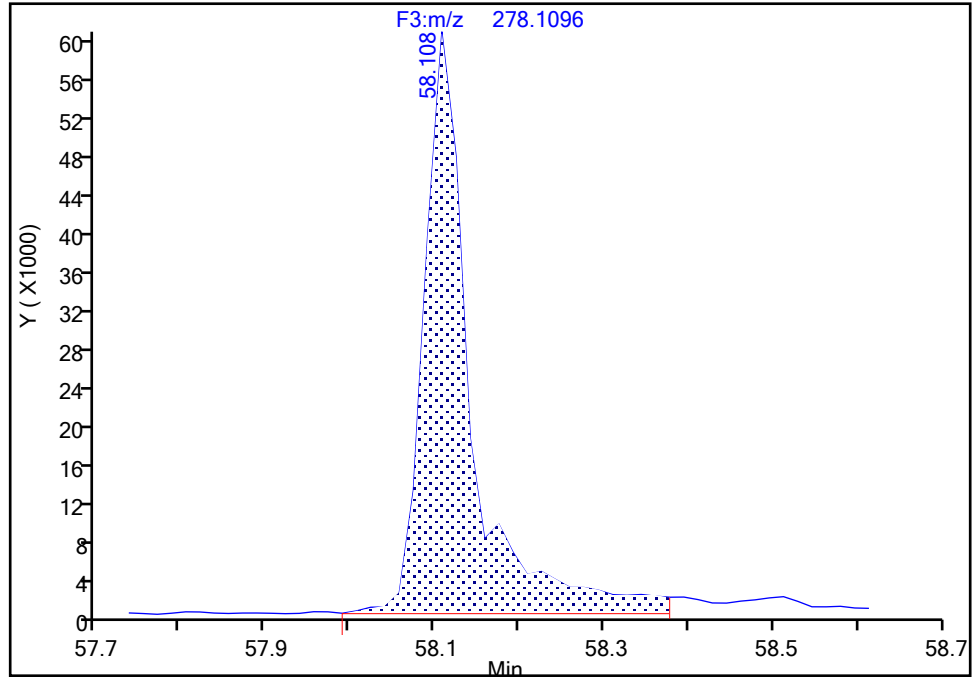
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Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

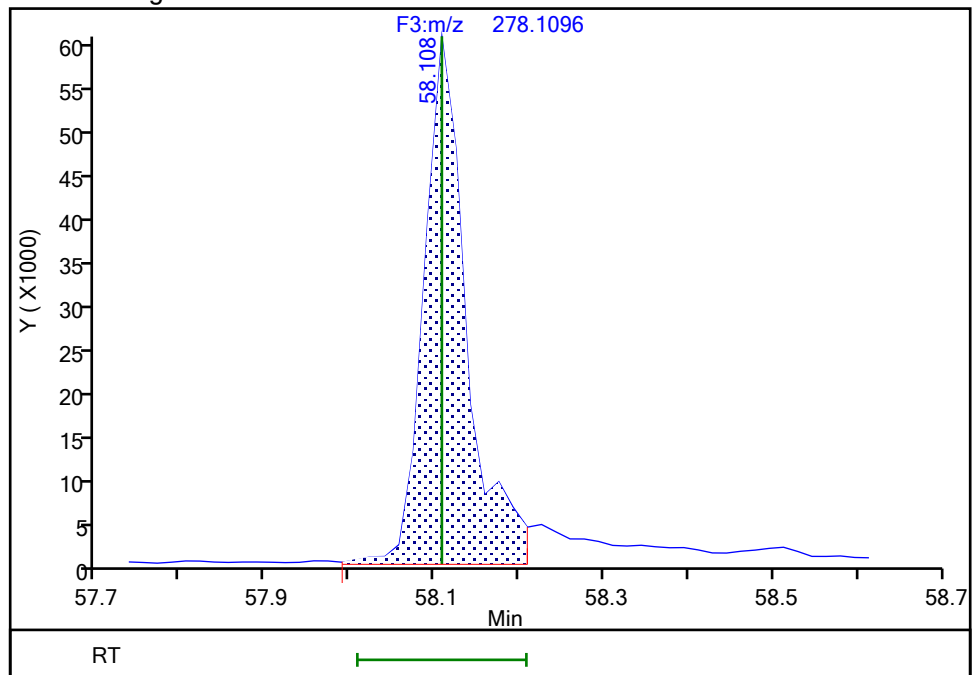
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Amount: 4.385611
Amount Units: pg/ul

Processing Integration Results



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Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:34:57 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

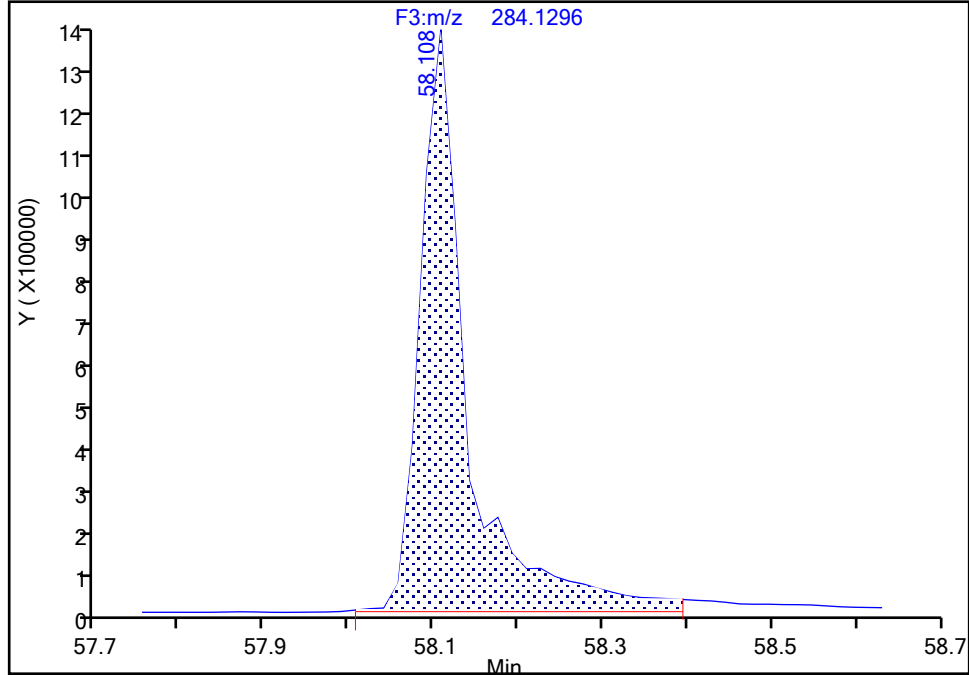
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Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
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Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: ST03360

Signal: 1

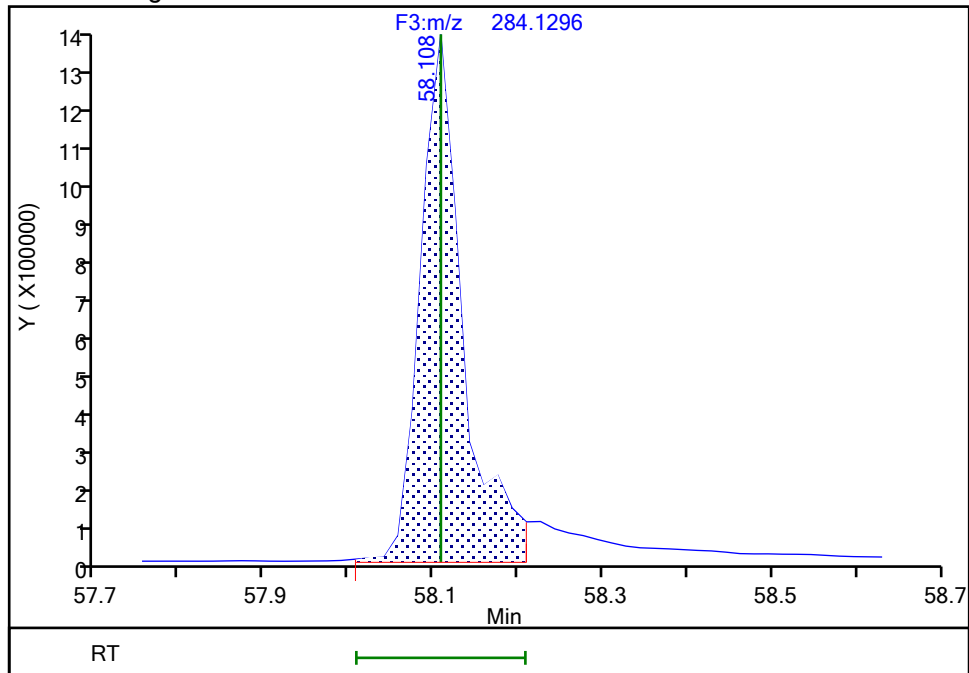
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Processing Integration Results



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Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:34:51 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
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 Sample Type: IC Calib Level: 4
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 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-004
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 20-Jun-2024 09:51:43 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:36:08

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	11716317		3.3746	100.0	100.0	0.006040	0.006040	99.97	
Naphthalene	11:33	3903394		1.2893	25.8	25.8	0.0222	0.0222	129	
D 13C6-2-Methylnaphthalene	13:52	5490022		1.6031	98.6	98.6	0.000763	0.000763	98.61	
2-Methylnaphthalene	13:52	1847737		1.2786	26.3	26.3	0.0199	0.0199	132	
D 13C6-Acenaphthylene	16:44	5757839		1.6520	100.4	100.4	0.001086	0.001086	100	
Acenaphthylene	16:45	1541031		2.3661	19.2	19.2	0.0221	0.0221	95.79	
* Acenaphthene-d10	17:19	3473120		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	3399456		0.9792	100.0	100.0	0.000999	0.000999	99.96	
Acenaphthene	17:26	939646		1.2697	21.8	21.8	0.0280	0.0280	109	
D 13C6-Fluorene	19:43	3098767		0.8898	100.3	100.3	0.000641	0.000641	100	
Fluorene	19:44	817773		1.2532	21.1	21.1	0.0292	0.0292	105	
D 13C6-Phenanthrene	25:07	4480403		0.5724	99.9	99.9	0.004188	0.004188	99.87	
Phenanthrene	25:07	1073406		1.1044	21.7	21.7	0.0394	0.0394	108	
\$ Anthracin-d10	25:20	3328133		0.4257	99.7	99.7	0.001931	0.001931	99.75	
D 13C6-Anthracene	25:27	3635963		0.4523	102.6	102.6	0.005300	0.005300	103	
Anthracene	25:27	983685		1.3586	19.9	19.9	0.0415	0.0415	99.57	
D 13C6-Fluoranthrene	33:52	9182667		1.1994	97.7	97.7	0.0211	0.0211	97.68	
Fluoranthrene	33:53	2114329		1.1513	20.0	20.0	0.0150	0.0150	100	
* Pyrene-d10	35:26	7837595		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	10292274		1.3512	97.2	97.2	0.0133	0.0133	97.19	
Pyrene	35:34	2200520		1.0652	20.1	20.1	0.0153	0.0153	100	
\$ 13C6-Benzo(c)fluorene	39:17	3555493		0.5136	88.3	88.3	0.003601	0.003601	88.33	
D 13C6-Benzo(a)anthracene	46:07	7704055		1.5189	101.2	101.2	0.0149	0.0149	101	
Benzo[a]anthracene	46:07	1488098		0.9739	19.8	19.8	0.0175	0.0175	99.17	
D 13C6-Chrysene	46:23	8166961		1.6287	100.1	100.1	0.0139	0.0139	100	
Chrysene	46:23	1613361		0.9815	20.1	20.1	0.0169	0.0169	101	
D 13C6-Benzo(b)fluoranthene	54:38	7226370		1.4621	98.6	98.6	0.000823	0.000823	98.63	
Benzo[b]fluoranthene	54:39	1692873		1.1249	20.8	20.8	0.009602	0.009602	104	
\$ 13C12-Benzo(j)fluoranthene	54:40	6484034		1.3558	95.4	95.4	0.0171	0.0171	95.43	
D 13C6-Benzo(k)fluoranthene	54:46	8387092		1.7507	95.6	95.6	0.000687	0.000687	95.60	
Benzo[k]fluoranthene	54:46	1885945		1.1271	20.0	20.0	0.008676	0.008676	99.75	
* Benzo(e)pyrene-d12	55:30	5011388		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:34	8133857		1.6368	99.2	99.2	0.0104	0.0104	99.16	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	1761621		1.0013	21.6	21.6	0.007898	0.007898	108	
Benzo[a]pyrene	55:43	1660260		1.1130	19.8	19.8	0.008299	0.008299	99.20	
D 13C4-Benzo(a)pyrene	55:43	7518310		1.5508	96.7	96.7	0.0109	0.0109	96.74	
D Perylene-d12	55:53	6075448		1.1917	101.7	101.7	0.0177	0.0177	102	
Perylene	55:57	1591843		1.4307	18.3	18.3	0.007063	0.007063	91.57	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	5157889		1.0218	100.7	100.7	0.008657	0.008657	101	M
Indeno[1,2,3-cd]pyrene	58:01	1091218		1.1249	18.8	18.8	0.008244	0.008244	94.03	
D 13C6-Dibenz(a,h)anthracene	58:06	4988169		1.0553	94.3	94.3	0.005702	0.005702	94.32	M
Dibenz(a,h)anthracene	58:06	1098846		1.1314	19.5	19.5	0.006864	0.006864	97.36	M
D 13C12-Benzo(ghi)perylene	58:29	6056294		1.2749	94.8	94.8	0.005995	0.005995	94.79	M
Benzo[g,h,i]perylene	58:30	1535539		1.2838	19.8	19.8	0.006558	0.006558	98.75	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS4_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

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Sample Type: IC Calib Level: 4
Inject. Date: 19-Jun-2024 19:47:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-004
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:43 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:36:08

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	-1	0.667	11716317	3897082	100	250	38971		
Naphthalene											
128.0626	11:33	11:34	-1	1.000	3903394	1298165	446	1115	2911		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	-1	0.800	5490022	2599116	6	15	433186		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.000	1847737	852094	265	662	3215		
13C6-Acenaphthylene											
158.0828	16:44	16:45	-1	0.966	5757839	1994063	9	22	221563		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	1541031	557482	237	592	2352		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3473120	1226490	4	10	306623		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	3399456	1131211	5	12	226242		
Acenaphthene											
154.0783	17:26	17:27	-1	1.000	939646	325892	161	402	2024		
13C6-Fluorene											
172.0984	19:43	19:45	-1	1.139	3098767	929479	3	7	309826		
Fluorene											
166.0783	19:44	19:45	-1	1.001	817773	239404	136	340	1760		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	4480403	1051309	14	35	75094		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	1073406	263170	183	457	1438		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	3328133	764636	5	12	152927		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	3635963	811406	14	35	57958		
Anthracene											
178.0783	25:27	25:28	-1	1.000	983685	214397	183	457	1172		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	9182667	1761346	148	370	11901		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	2114329	408256	122	305	3346		
Pyrene-d10											
212.1404	35:26	35:27	-1		7837595	1459989	43	107	33953		
13C3-Pyrene											
205.0883	35:34	35:35	-1	1.004	10292274	1869308	105	262	17803		
Pyrene											
202.0783	35:34	35:35	-1	1.000	2200520	415144	122	305	3403		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:18	-1	0.708	3555493	652637	11	27	59331		
13C6-Benzo(a)anthracene											
234.1140	46:07	46:07	-1	1.301	7704055	1333038	150	375	8887		
Benzo[a]anthracene											
228.0939	46:07	46:07	-1	1.000	1488098	266418	91	227	2928		
13C6-Chrysene											
234.1140	46:23	46:24	-1	1.309	8166961	1365798	150	375	9105		
Chrysene											
228.0939	46:23	46:25	-2	1.000	1613361	277356	91	227	3048		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	7226370	1851591	8	20	231449		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	1692873	471919	80	200	5899		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	6484034	1591075	154	385	10332		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	8387092	2045378	8	20	255672		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	1885945	472393	80	200	5905		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	-1		5011388	1661772	140	350	11870		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:35	-2	1.001	8133857	2529058	113	282	22381		
Benzo[e]pyrene											
252.0939	55:35	55:35	-1	1.000	1761621	581240	80	200	7266		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	1660260	495412	80	200	6193		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	7518310	2165173	113	282	19161		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	6075448	1979131	140	350	14137		
Perylene											
252.0939	55:57	55:58	-1	1.001	1591843	541841	80	200	6773		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	5157889	1584980	59	147	26864		M
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	1091218	342666	59	147	5808		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	-1	1.047	4988169	1377812	40	100	34445		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	1098846	313712	43	107	7296		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	6056294	1746025	51	127	34236		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-1	1.000	1535539	424373	59	147	7193		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS4_00002

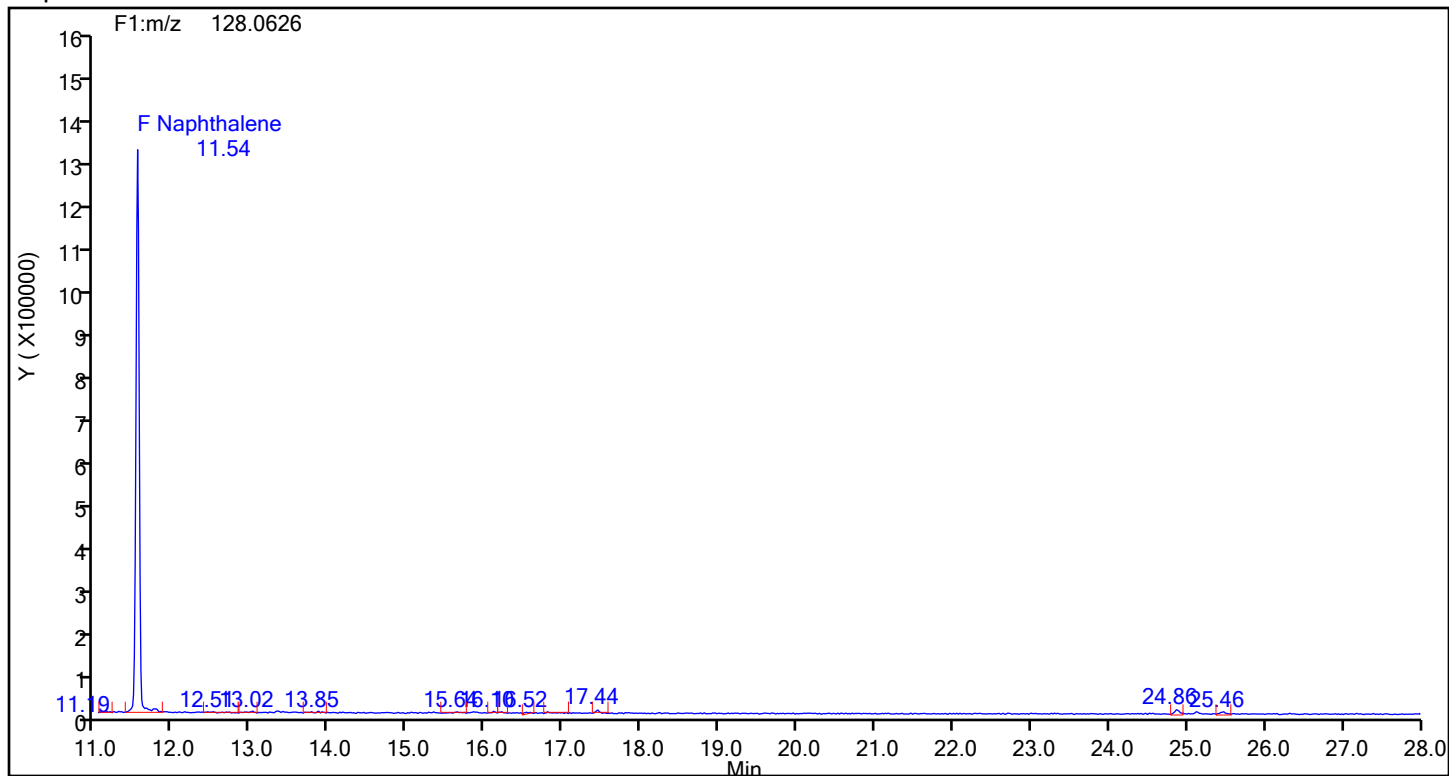
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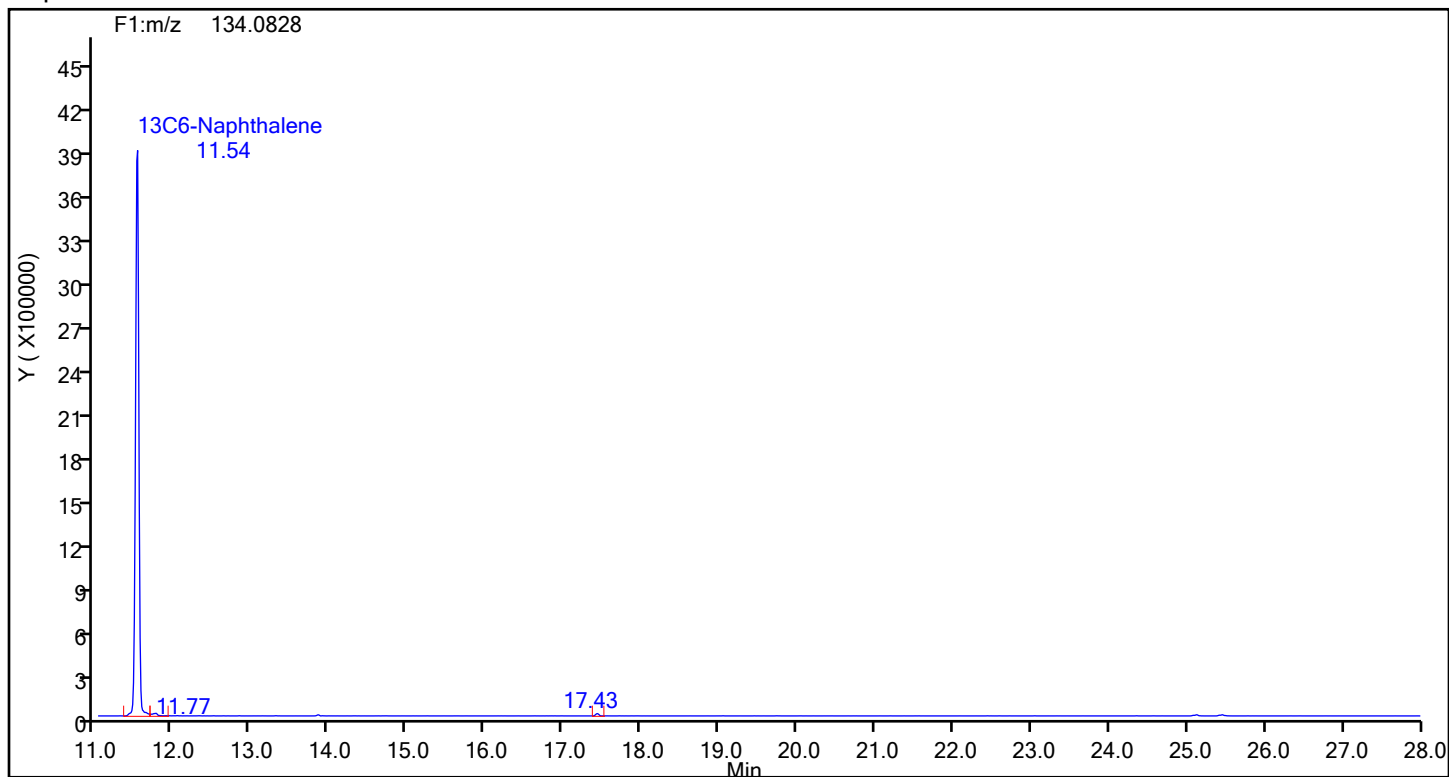
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



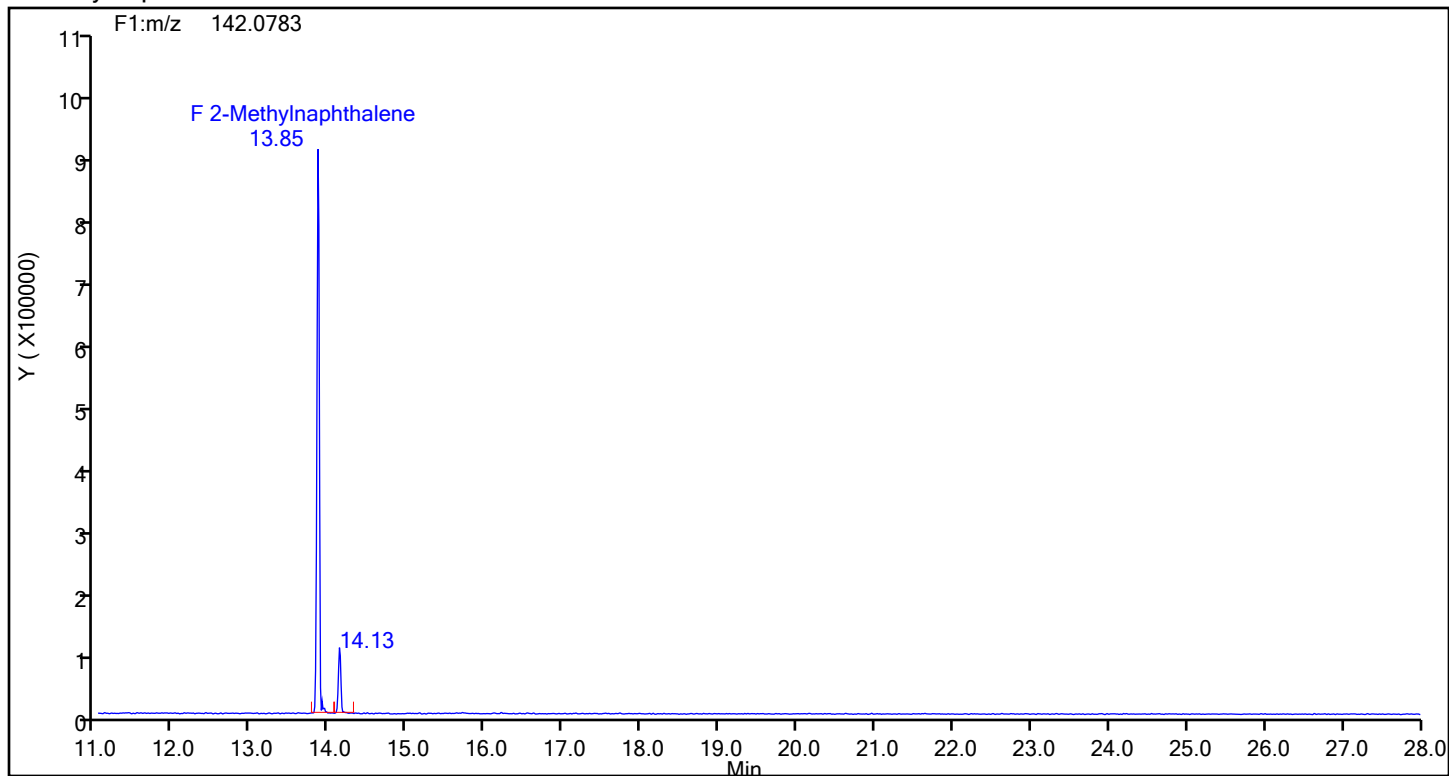
Naphthalene Standards



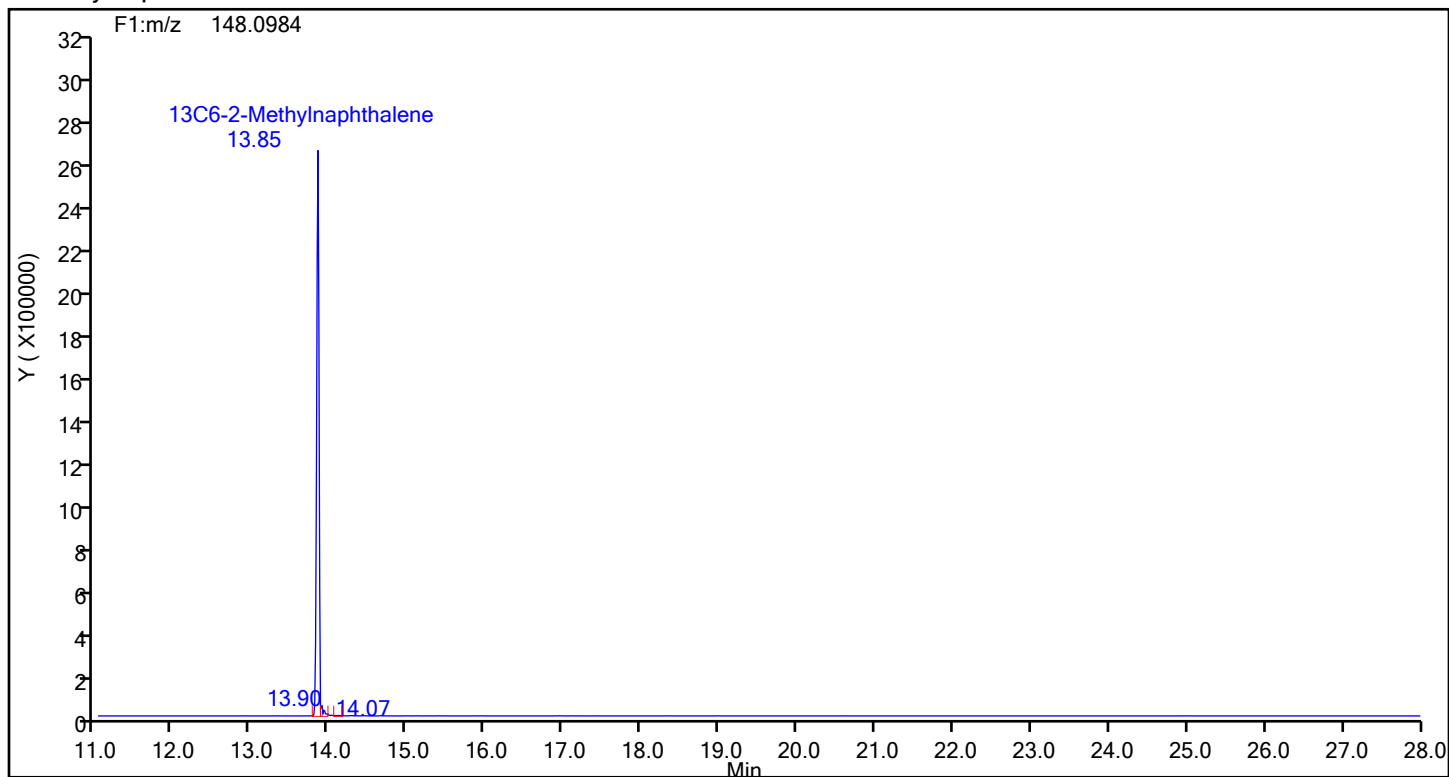
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



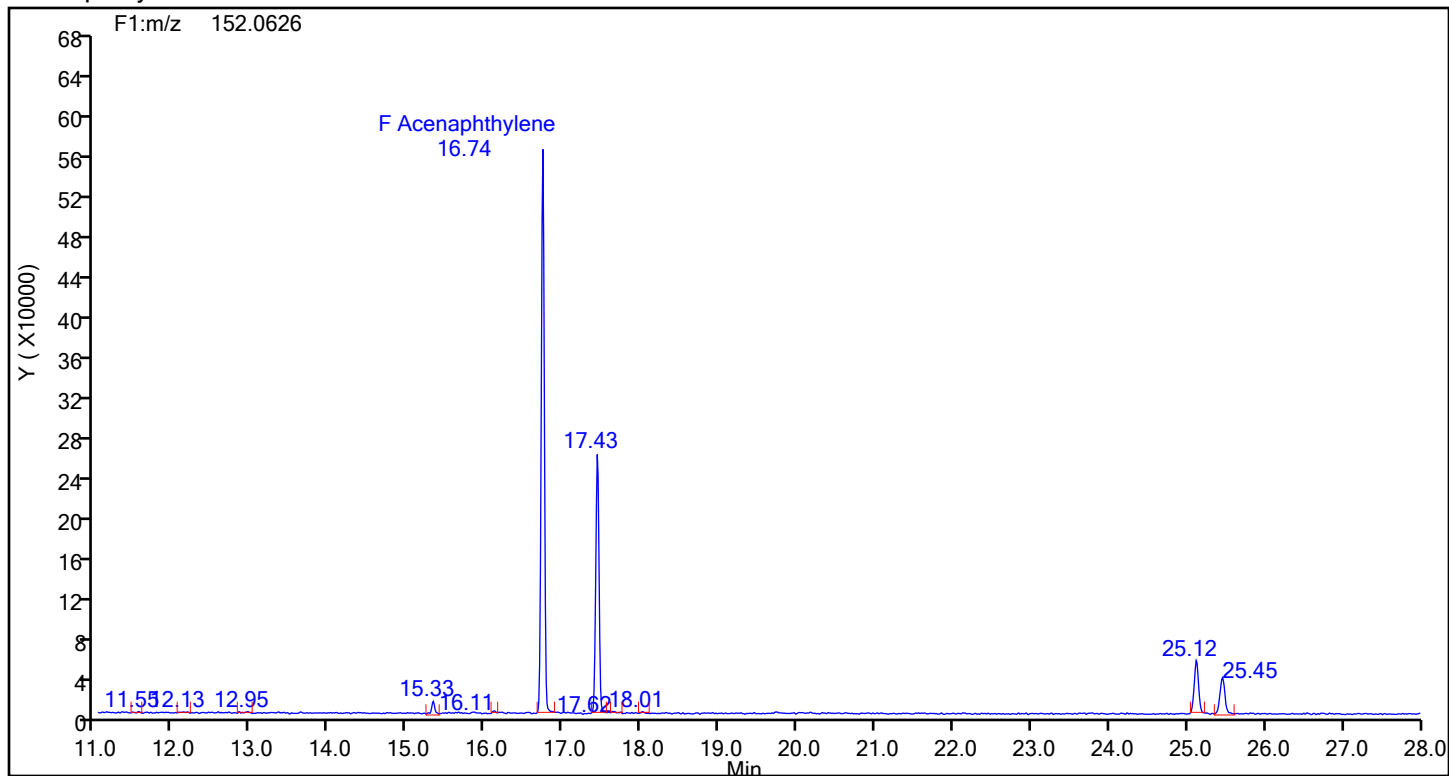
2-Methylnaphthalene Standards



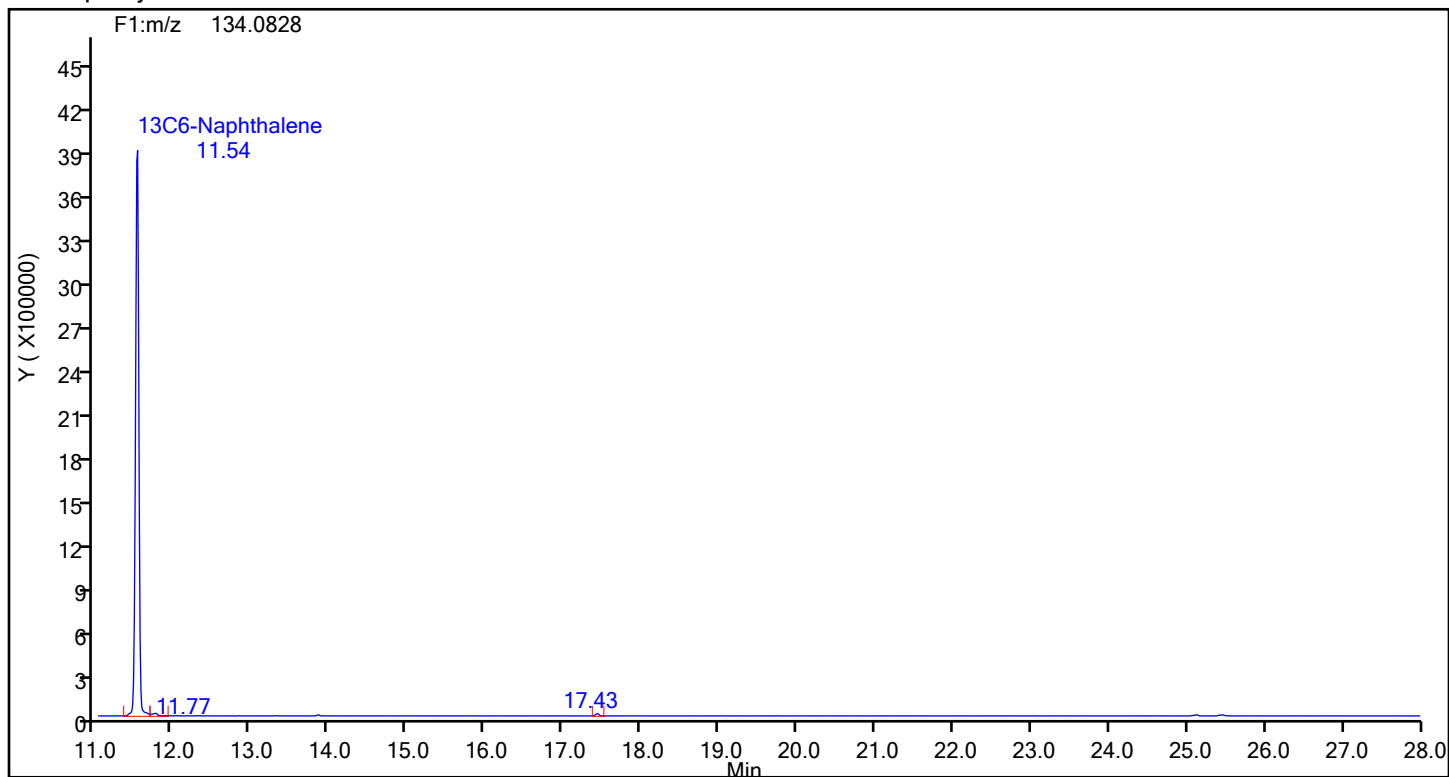
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene

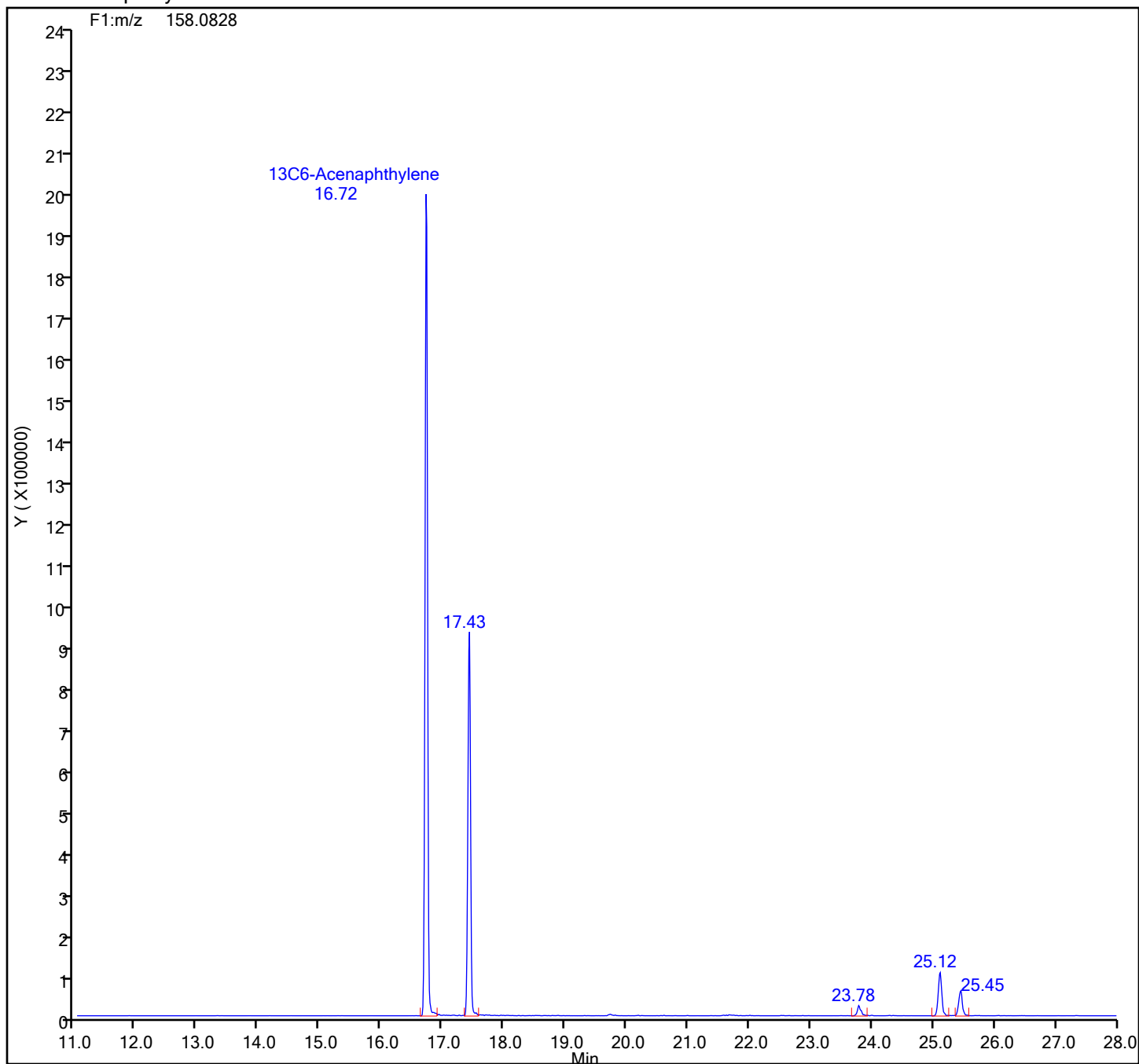


Acenaphthylene Standards



Eurofins Knoxville

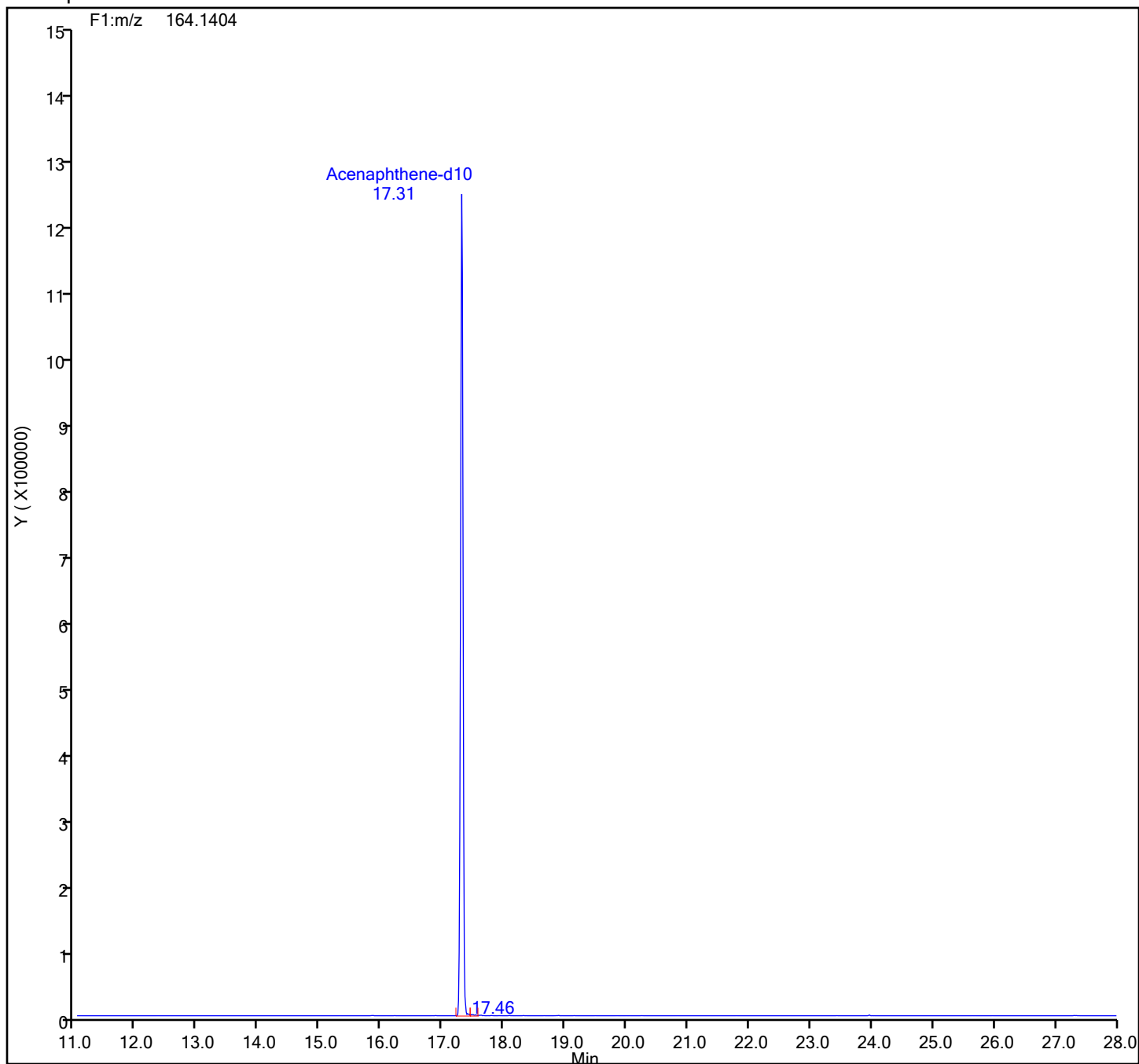
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Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C6-Acenaphthylene Standards



Eurofins Knoxville

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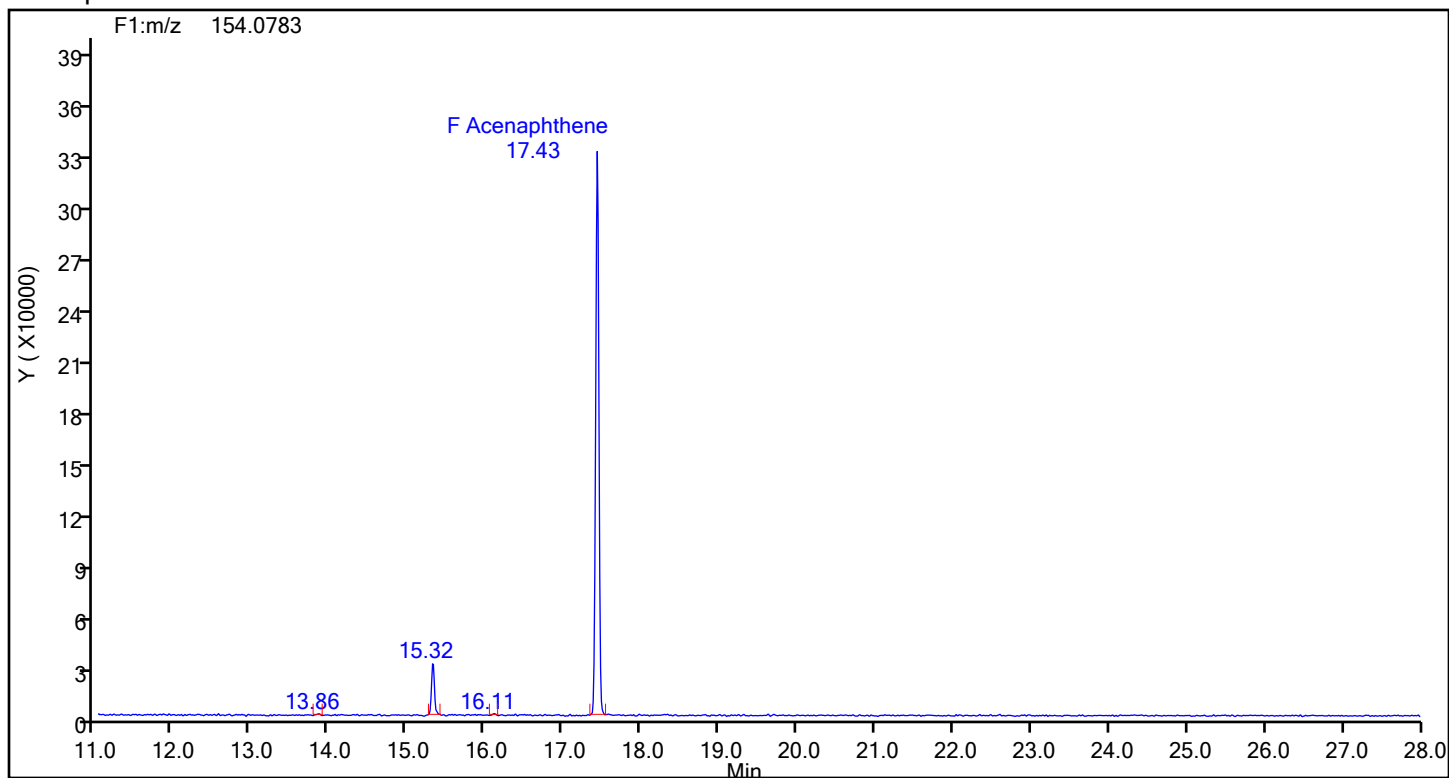
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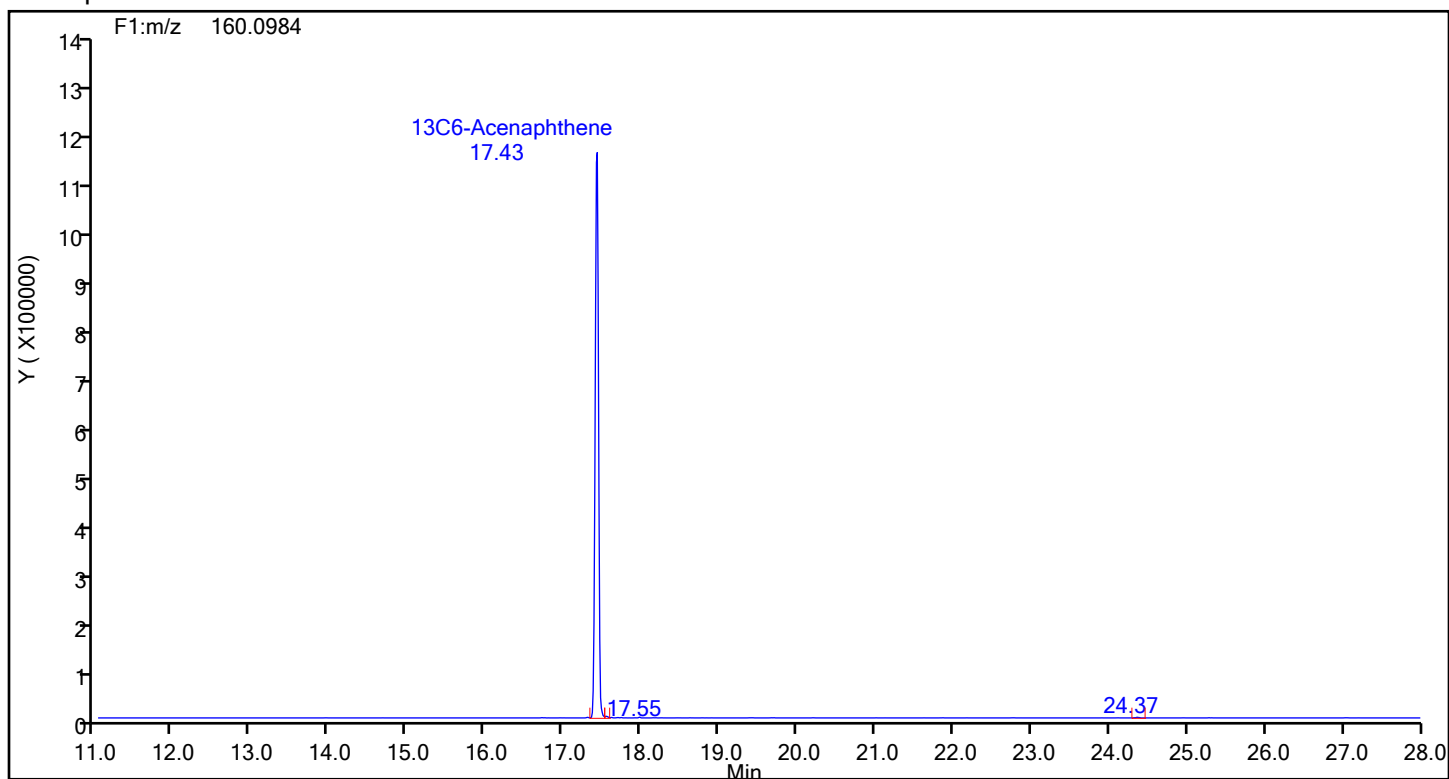
Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



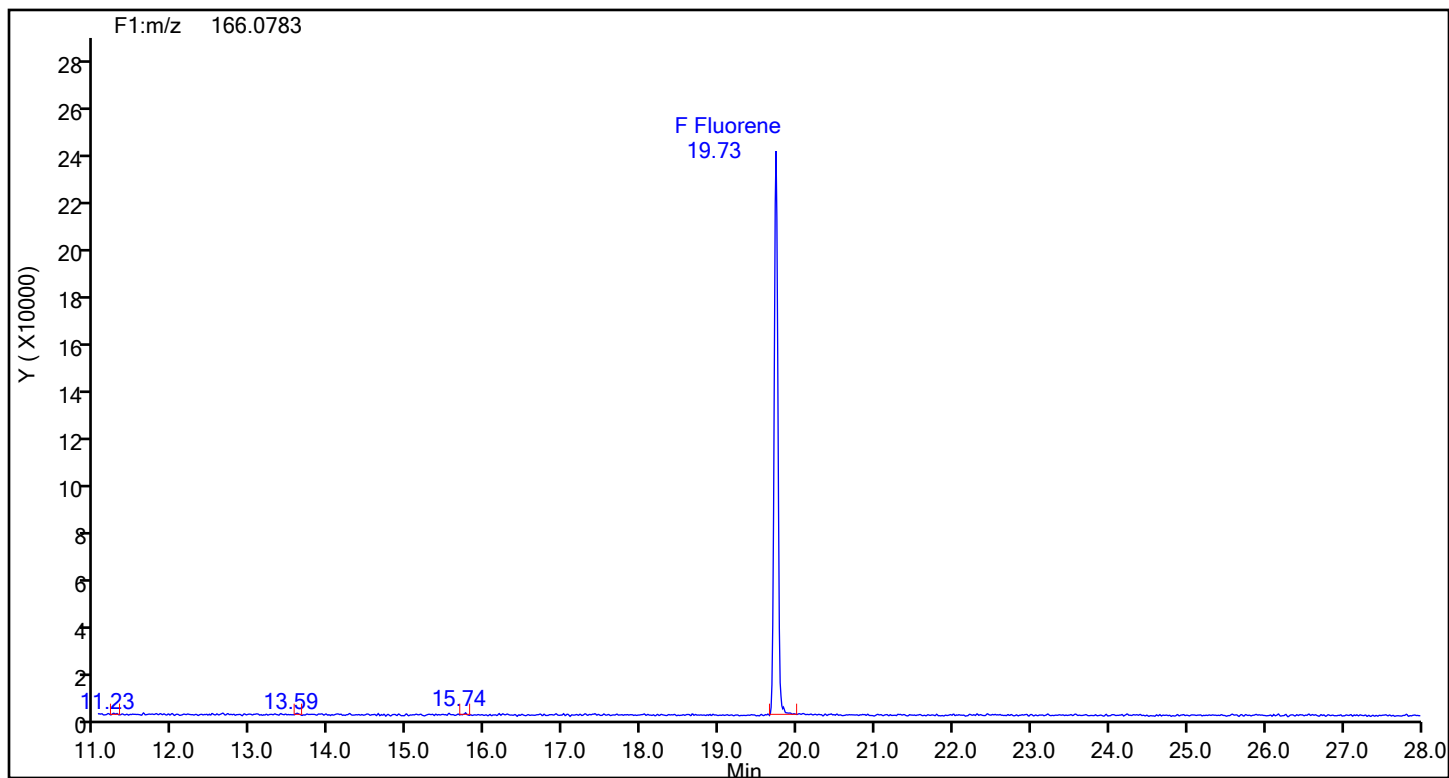
Acenaphthene Standards



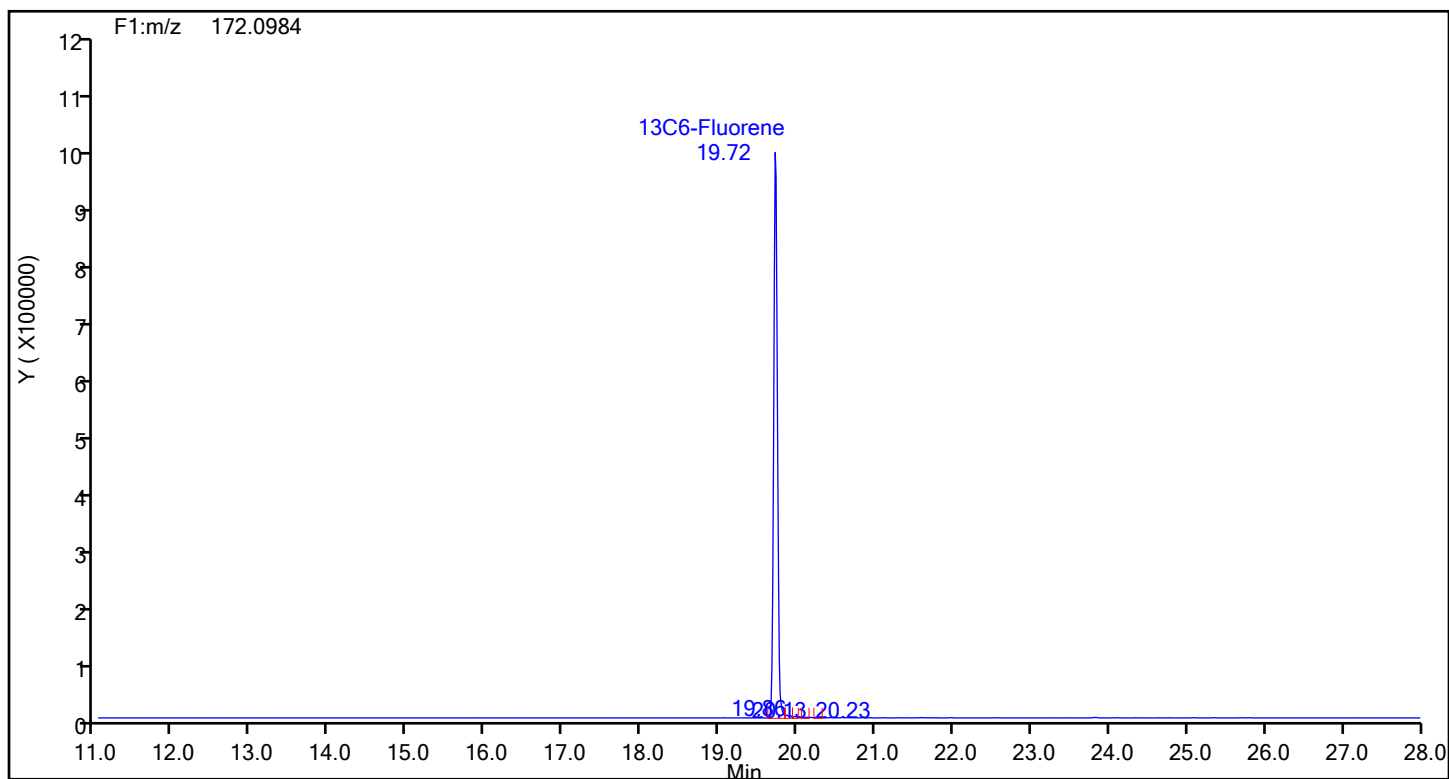
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Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

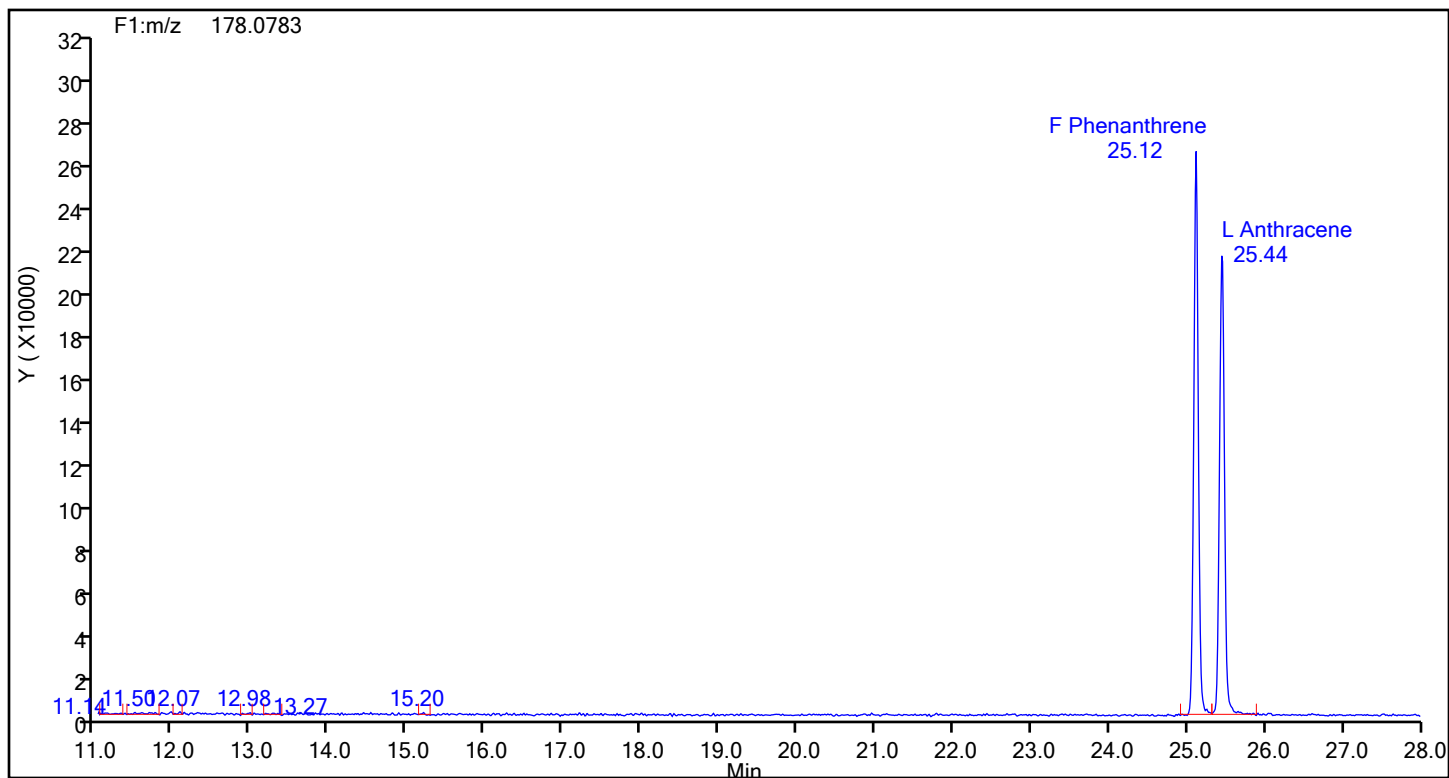


Fluorene Standards

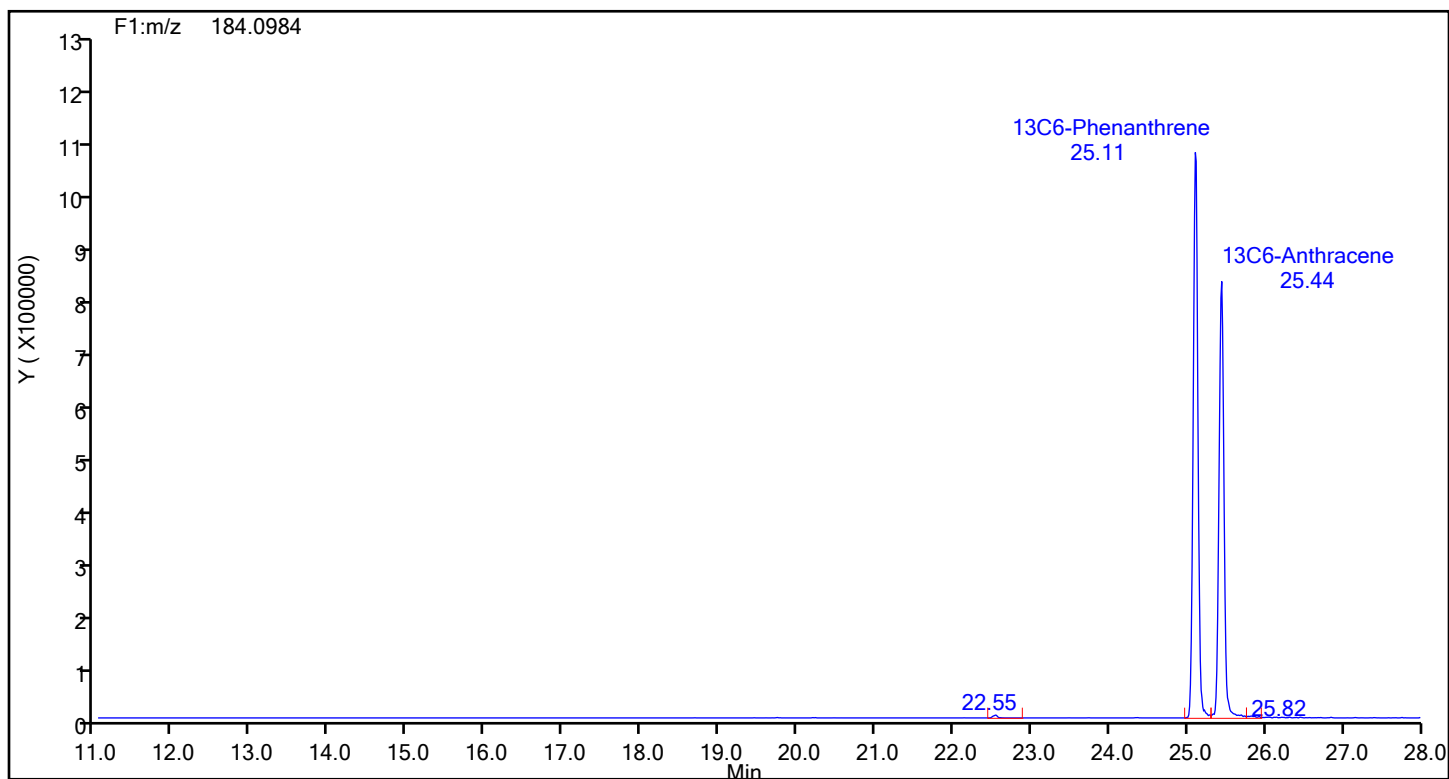


Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene

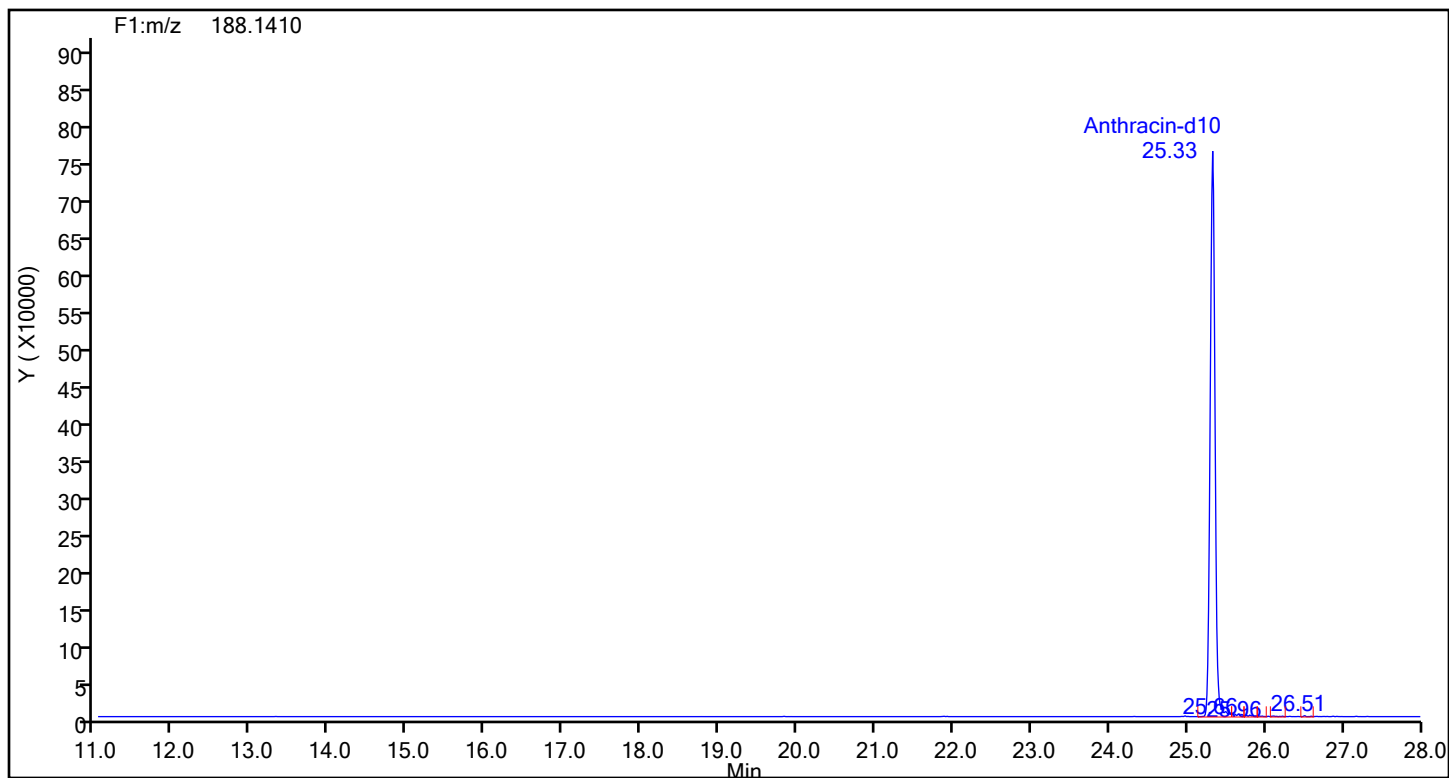


Phenanthrene Standards

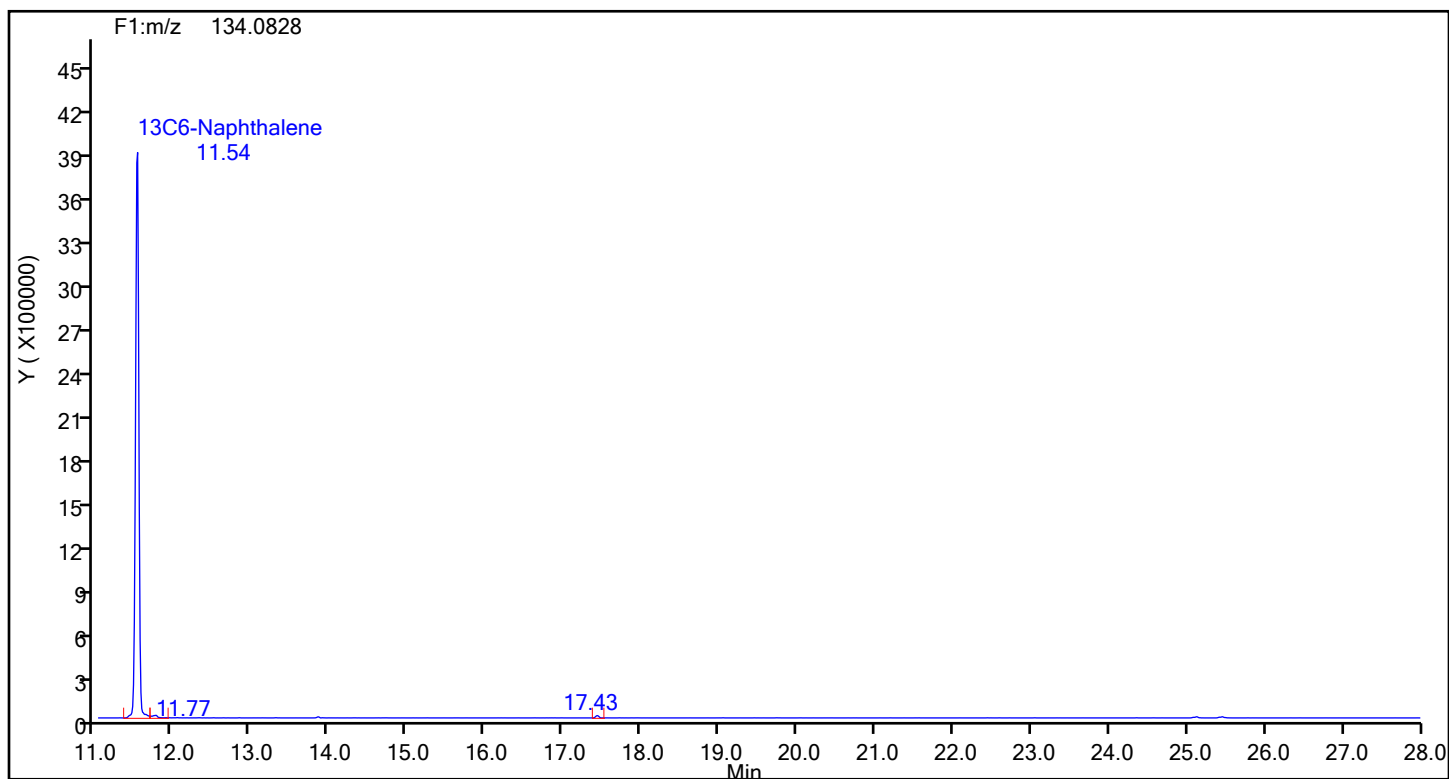


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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Anthracin-d10

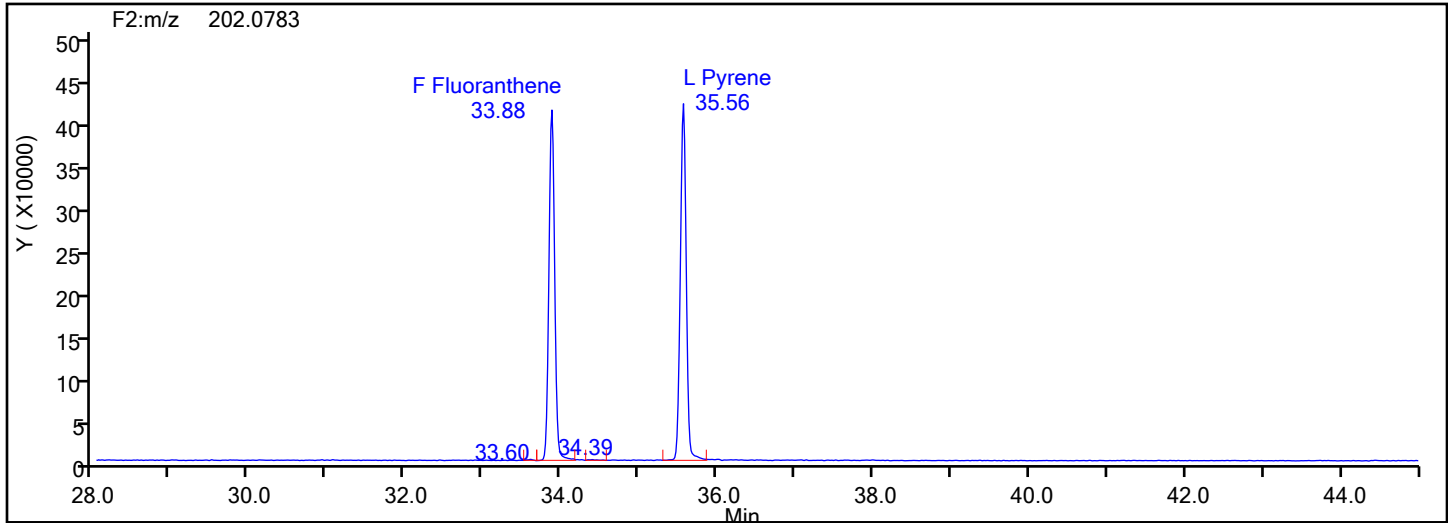


Anthracin-d10 Standards

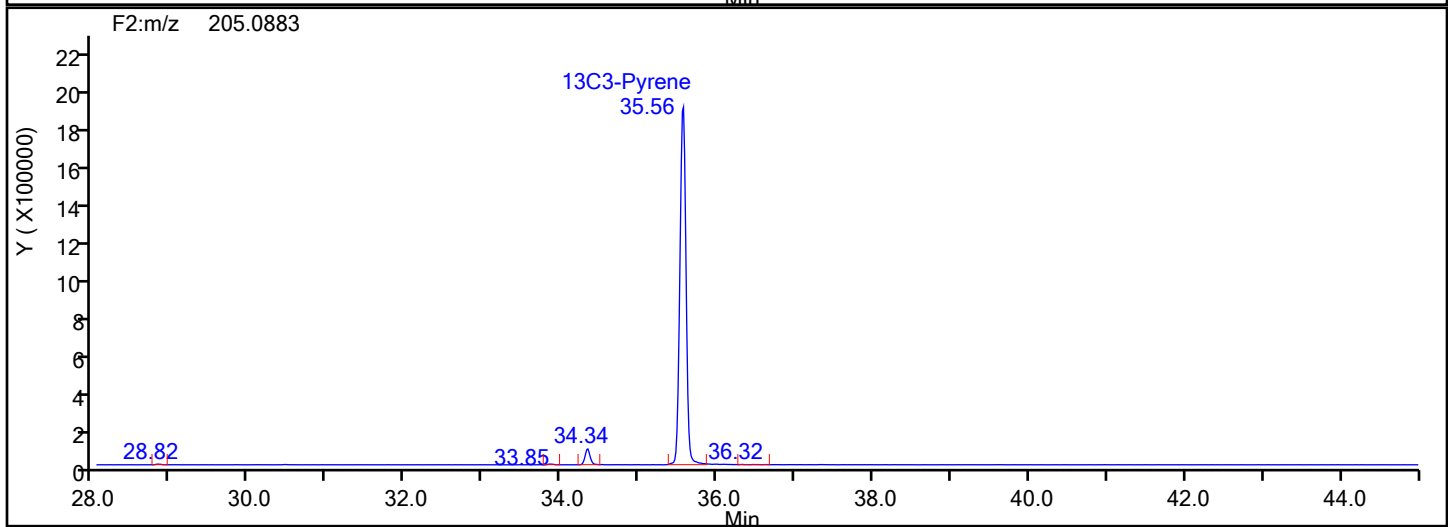
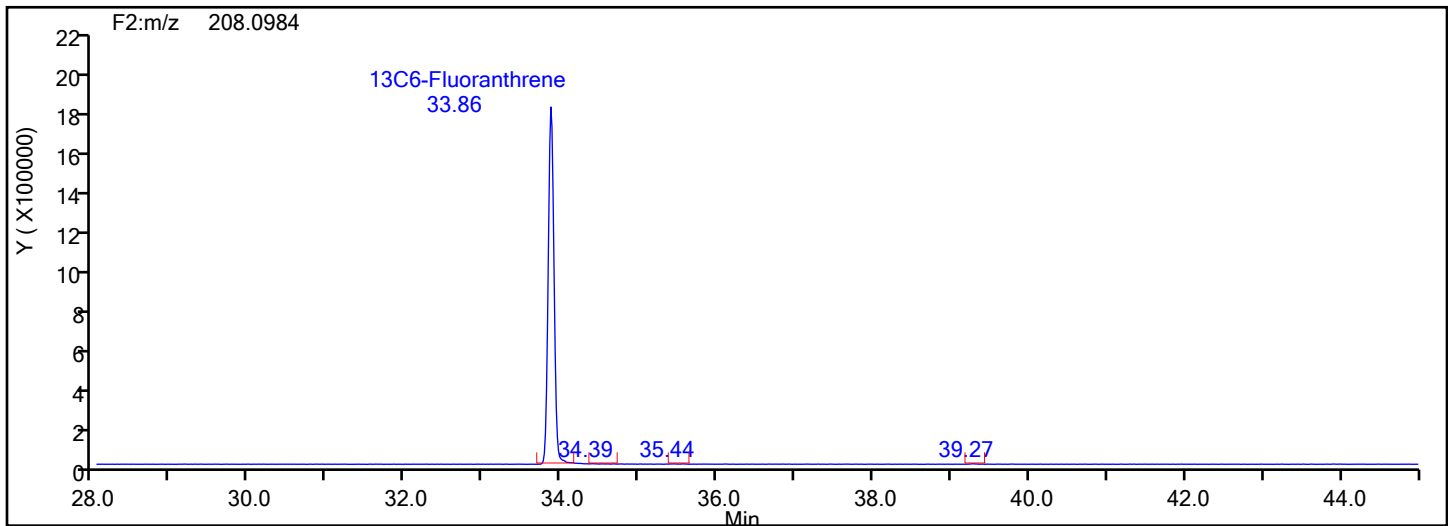


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



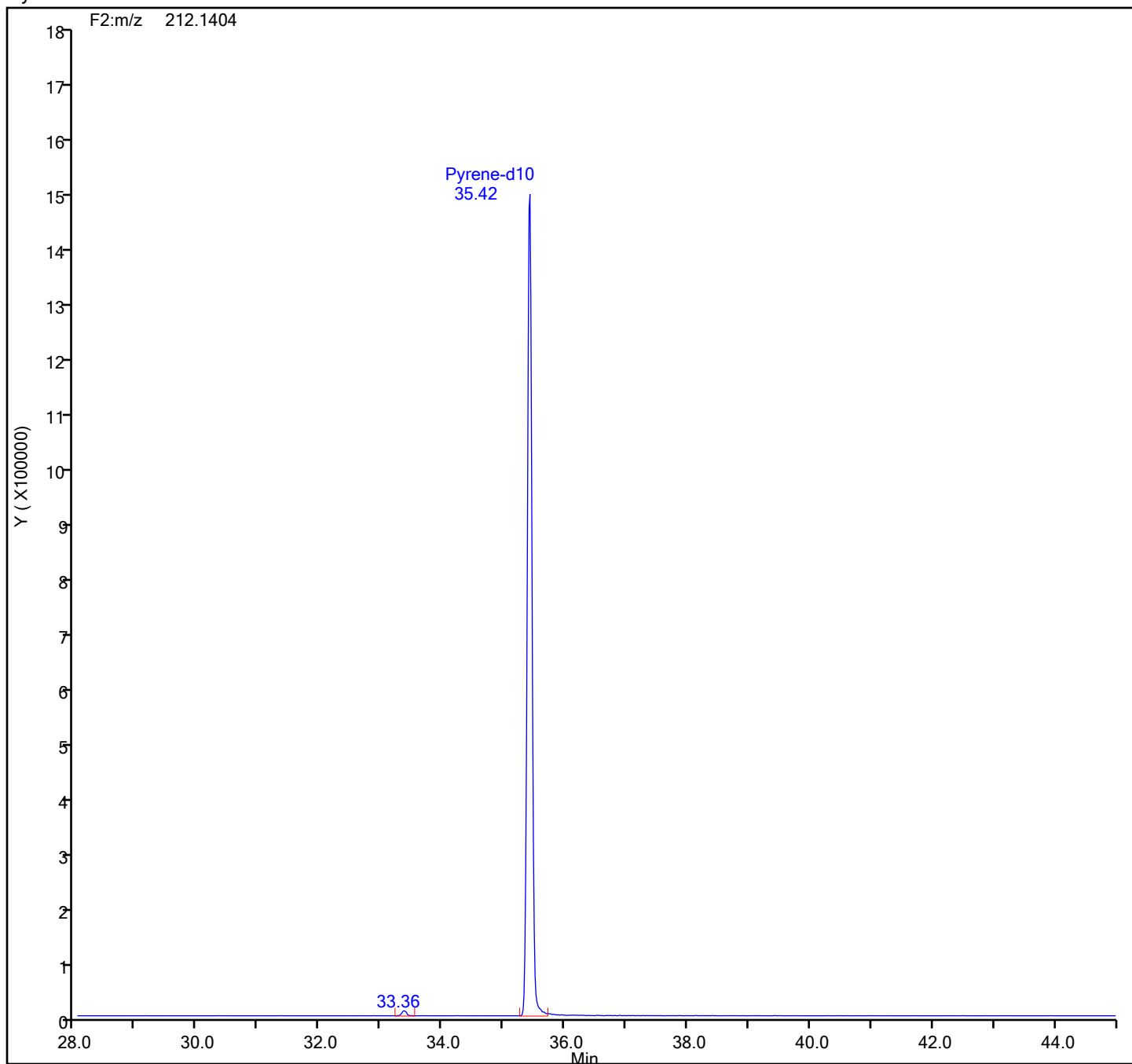
Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

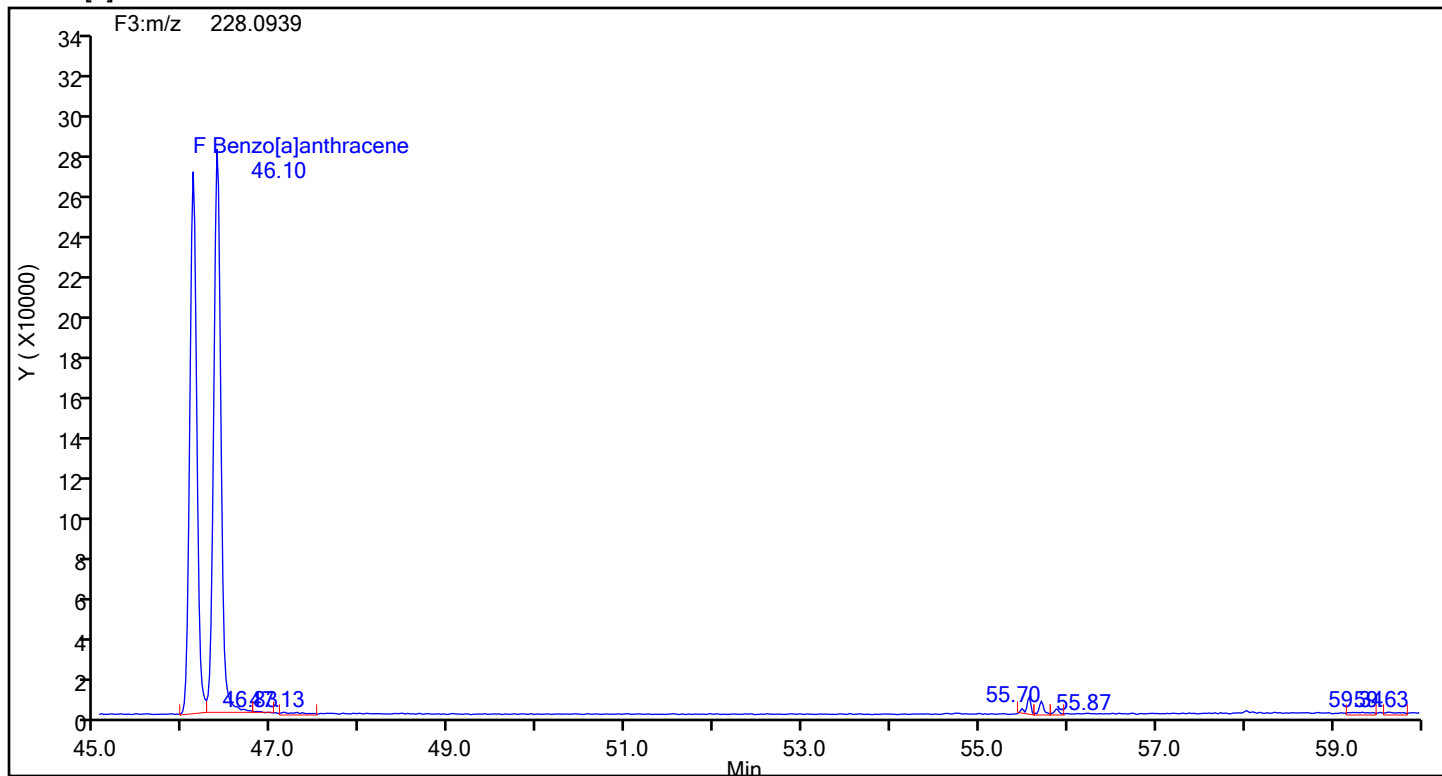
Pyrene-d10 Standards



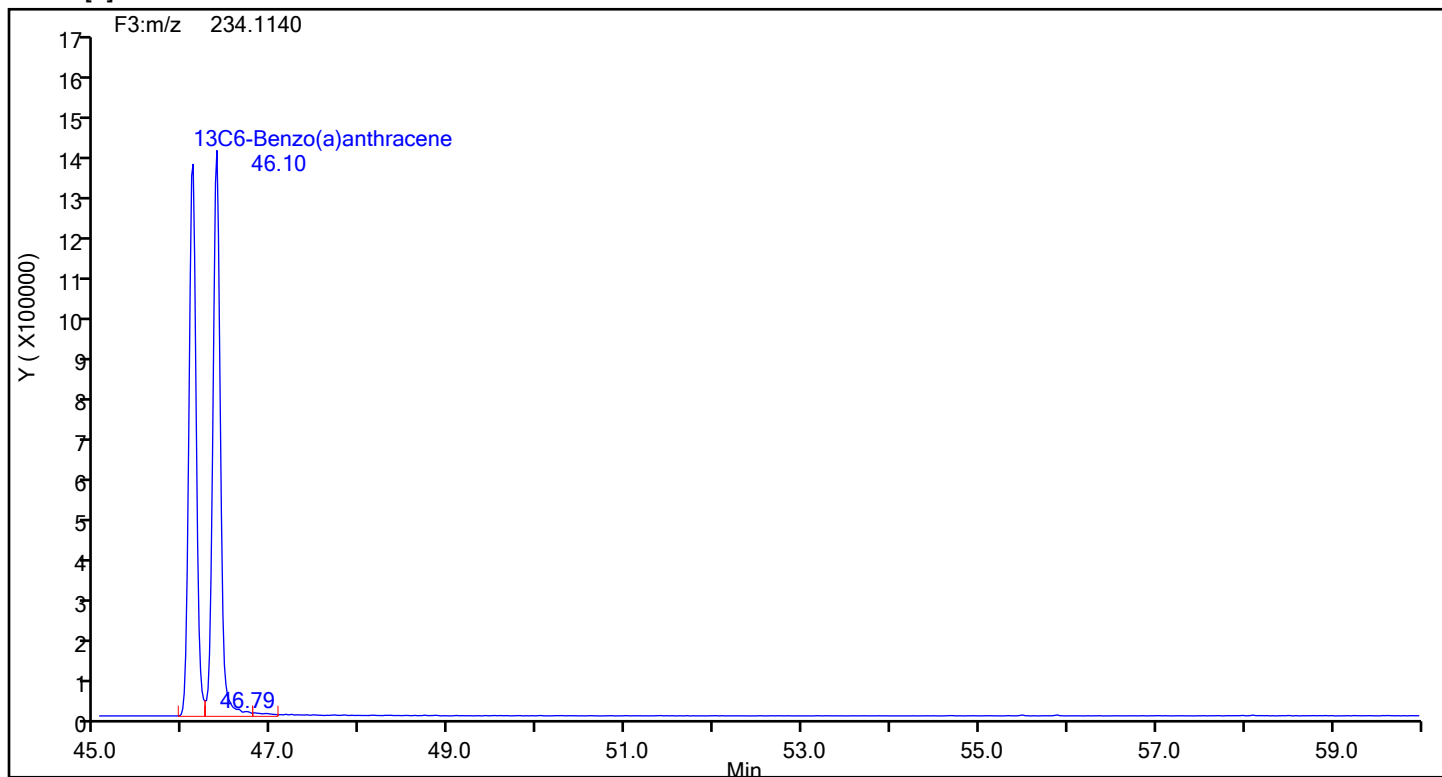
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



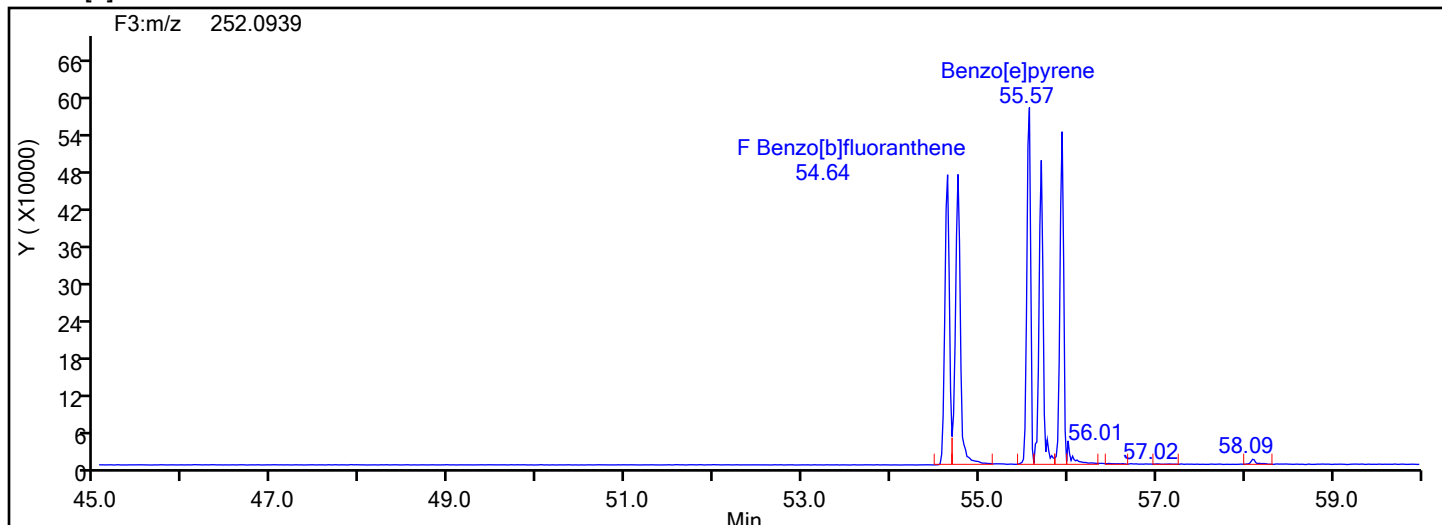
Benzo[a]anthracene Standards



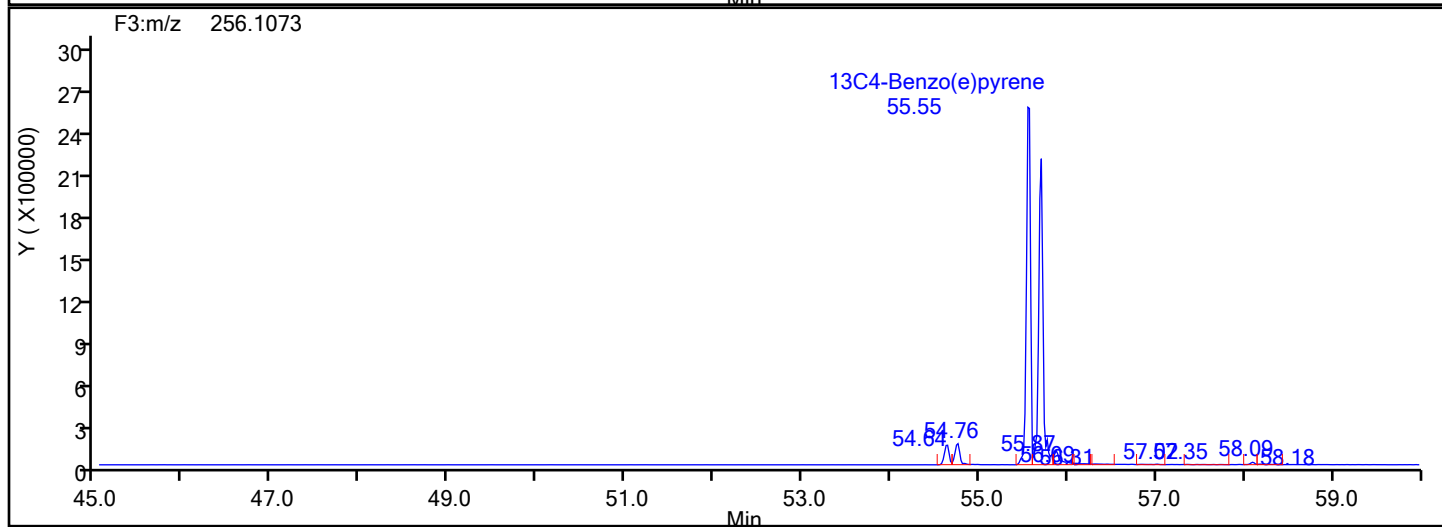
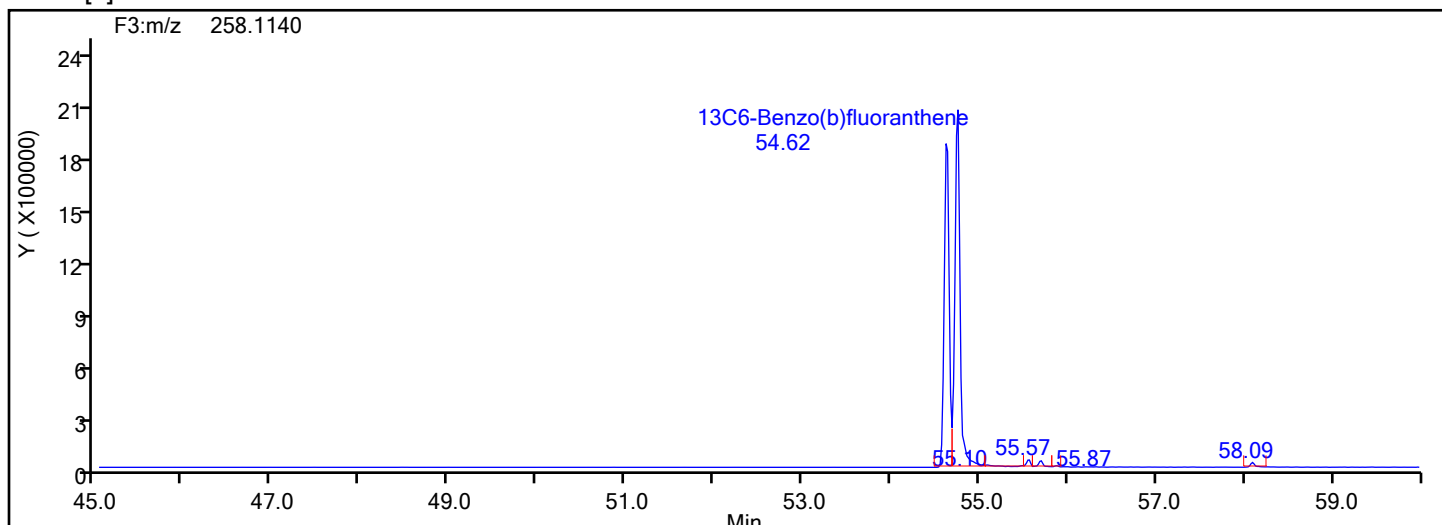
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



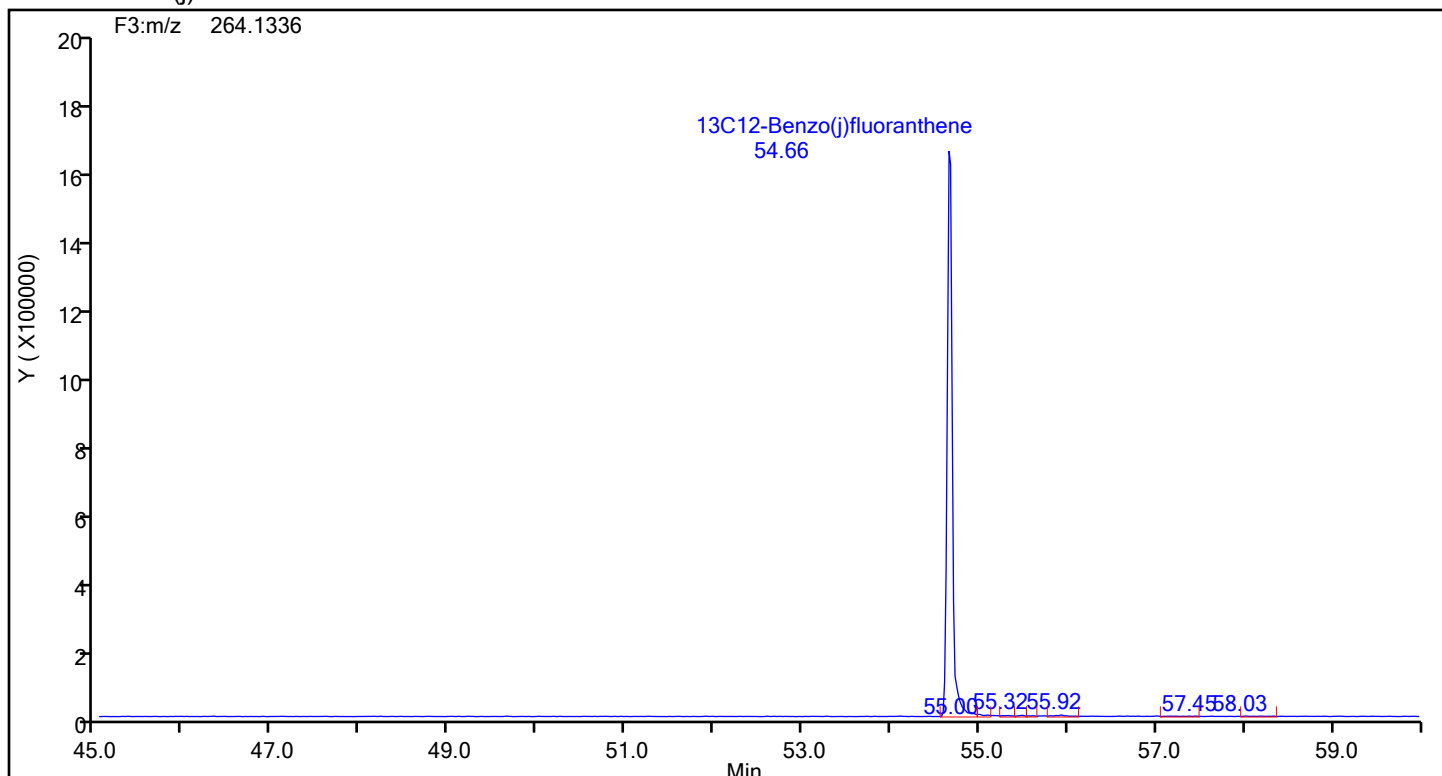
Benzo[b]fluoranthene Standards



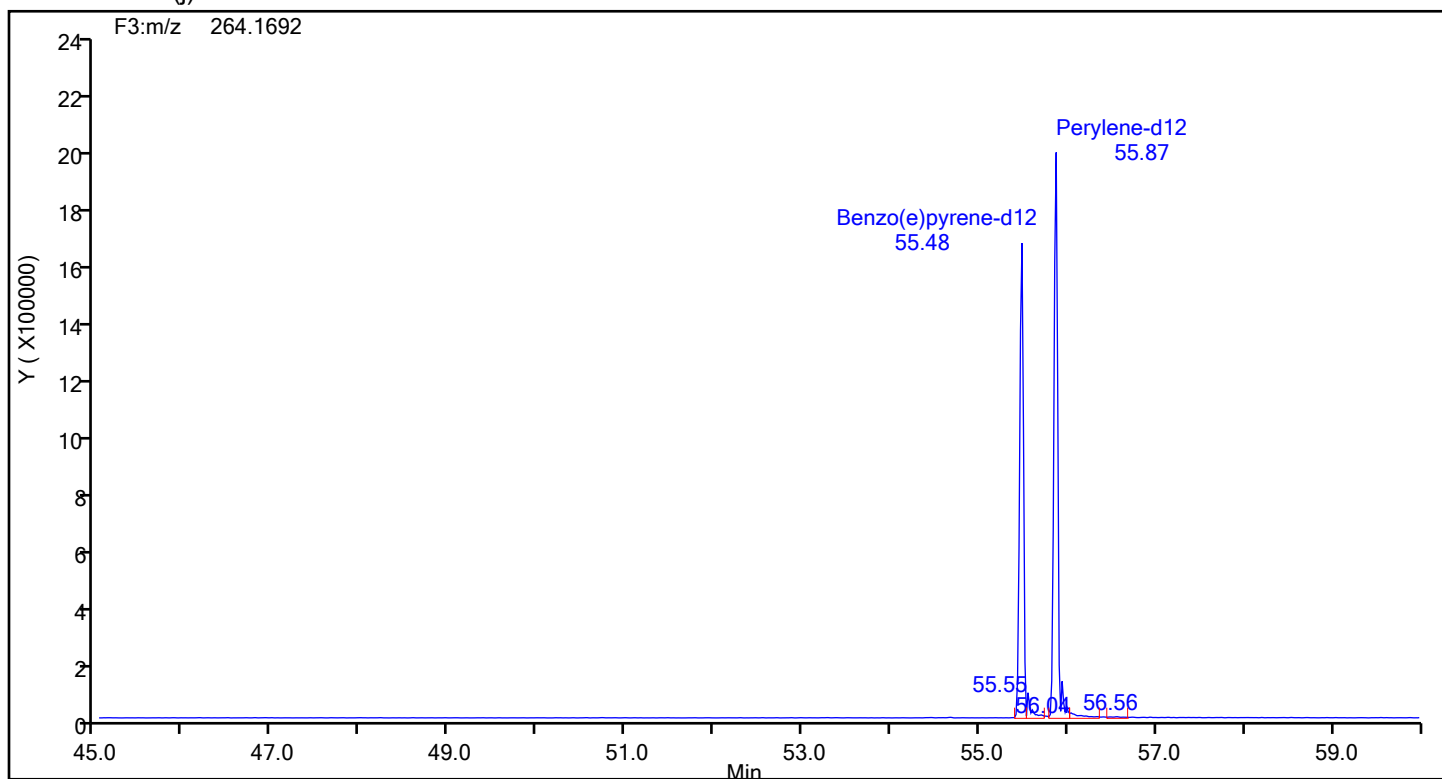
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



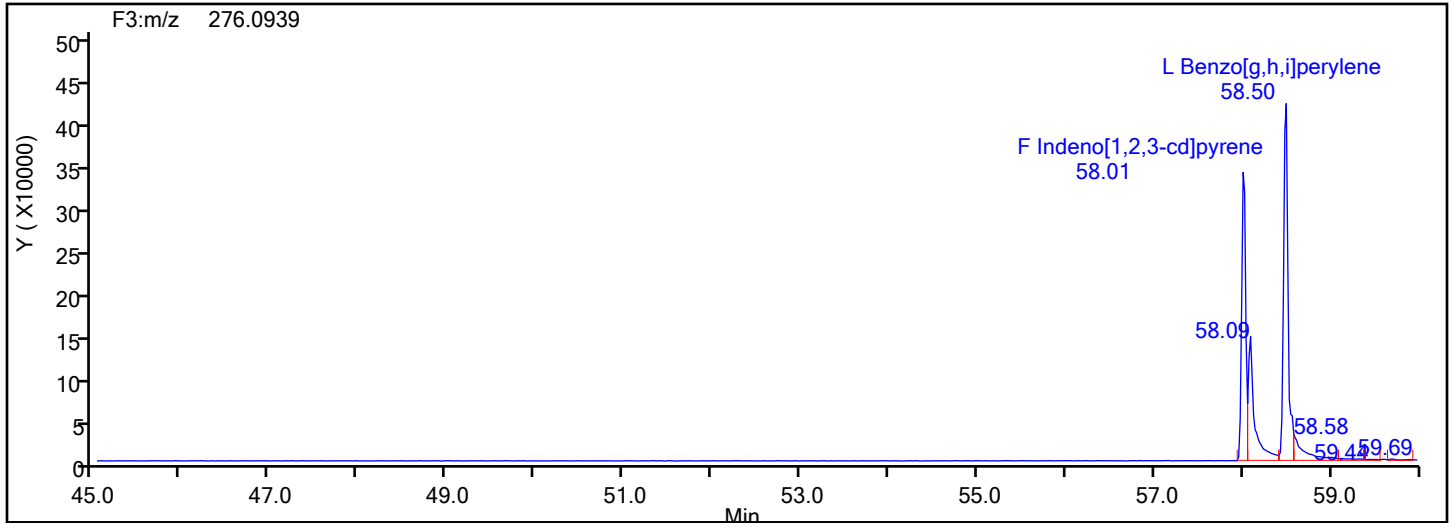
13C12-Benzo(j)fluoranthene Standards



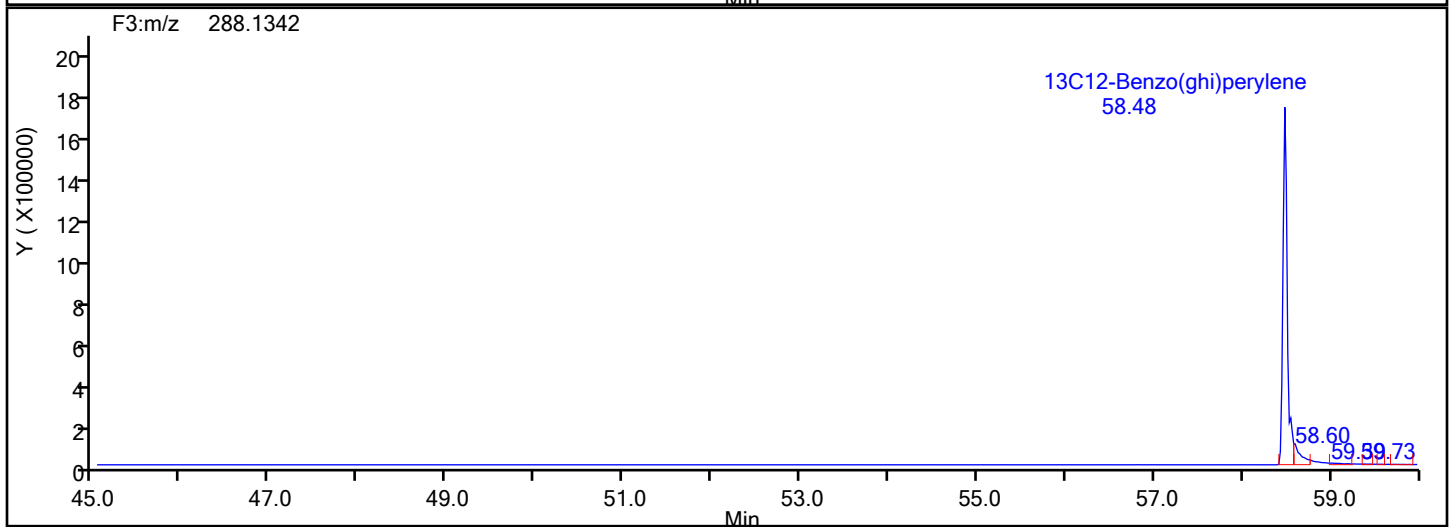
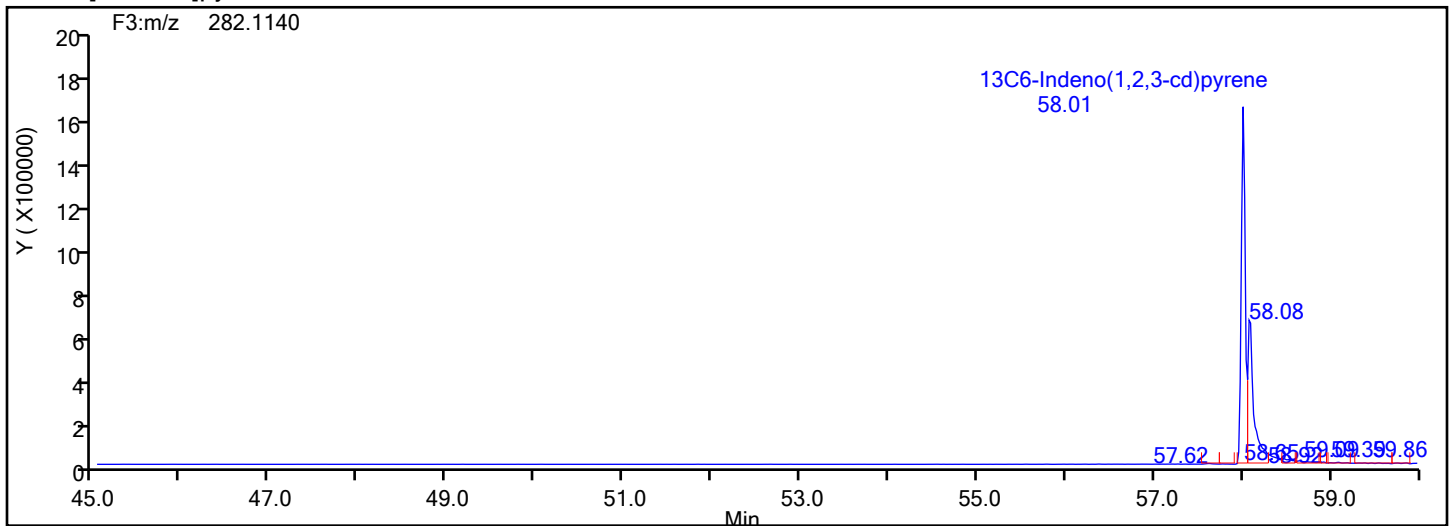
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

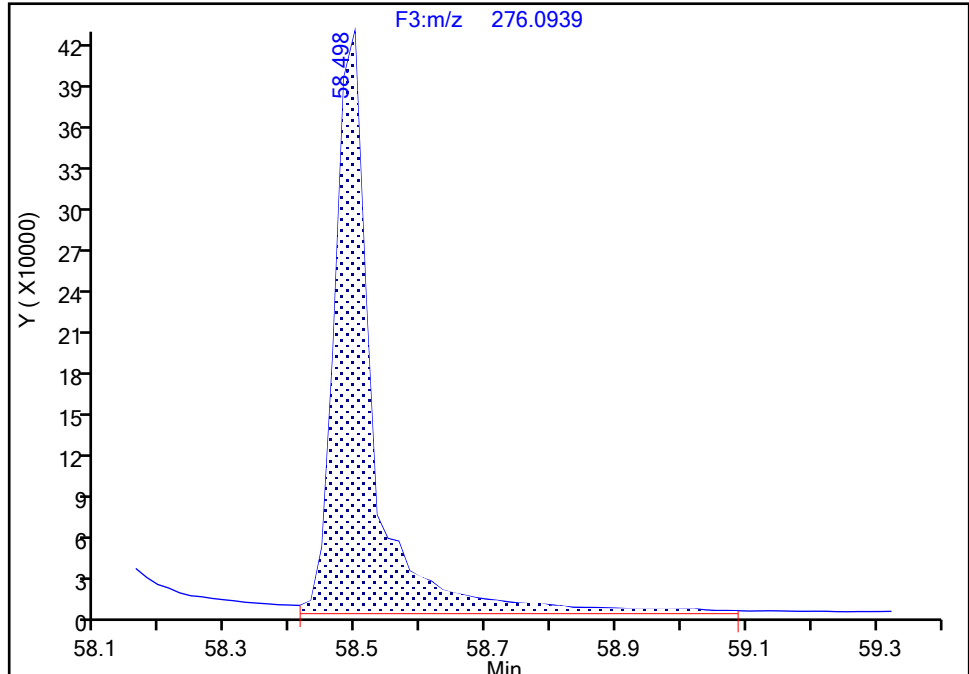
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

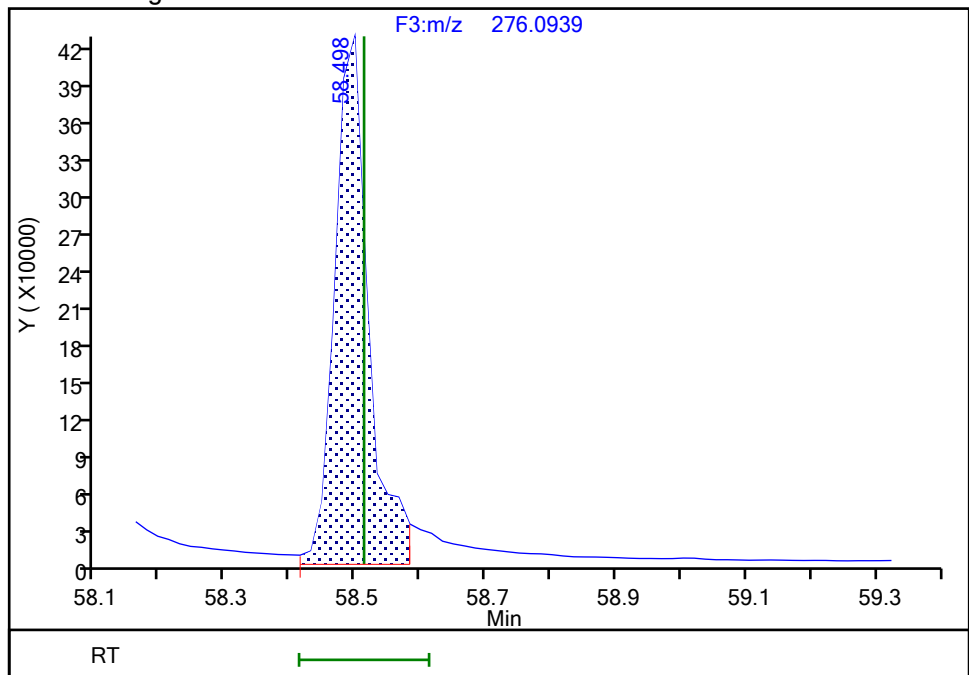
RT: 58.50
Area: 1774253
Amount: 22.249831
Amount Units: pg/ul

Processing Integration Results



RT: 58.50
Area: 1535539
Amount: 19.750198
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:04 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

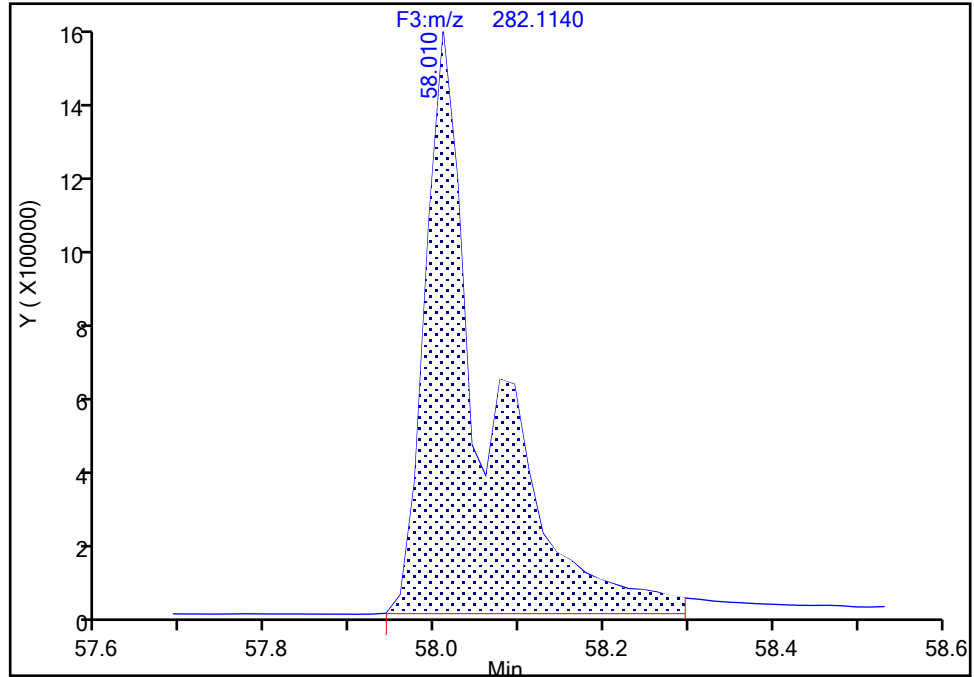
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

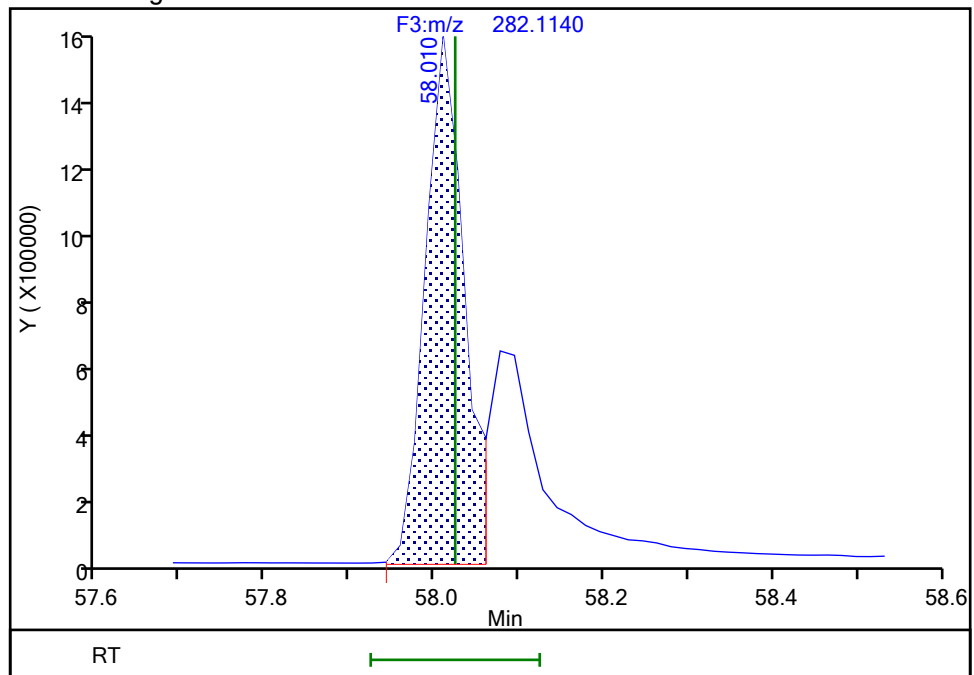
RT: 58.01
Area: 7944490
Amount: 138.0523
Amount Units: pg/ul

Processing Integration Results



RT: 58.01
Area: 5157889
Amount: 100.7229
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

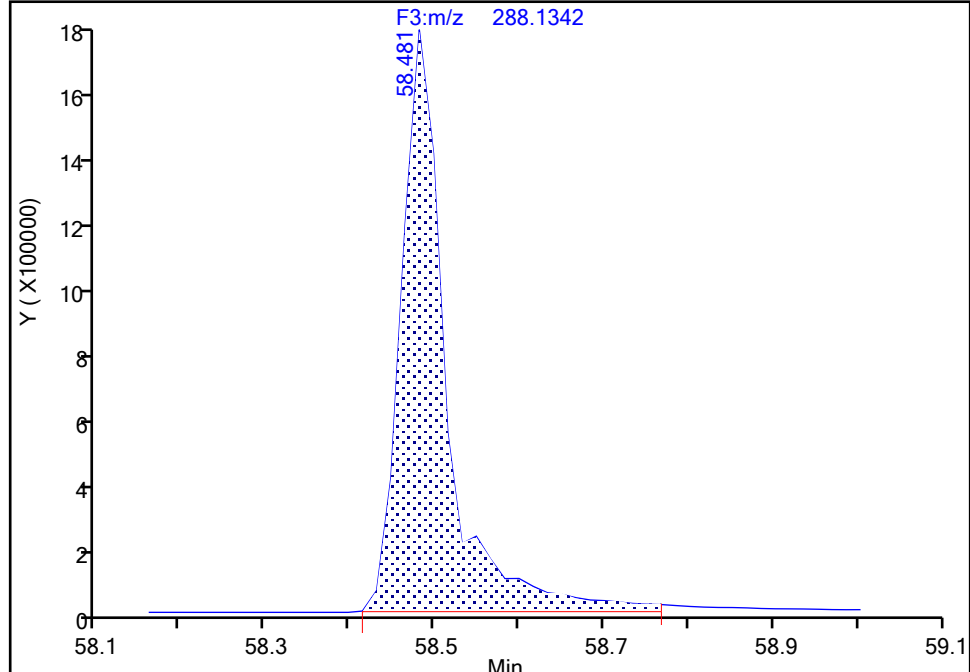
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

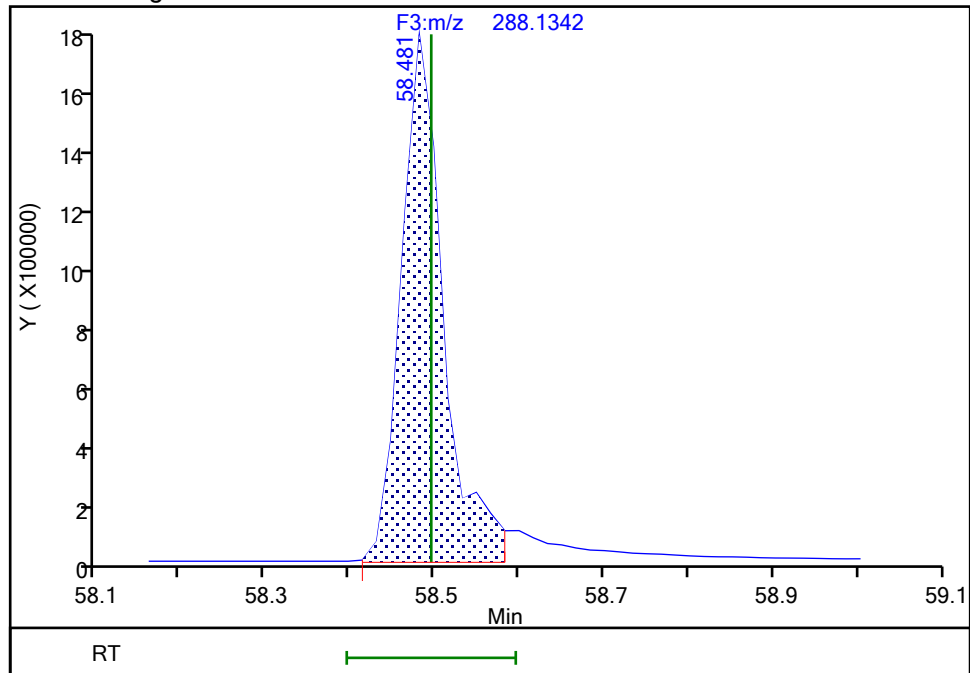
RT: 58.48
Area: 6560124
Amount: 98.048209
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 6056294
Amount: 94.793737
Amount Units: pg/ul

Manual Integration Results



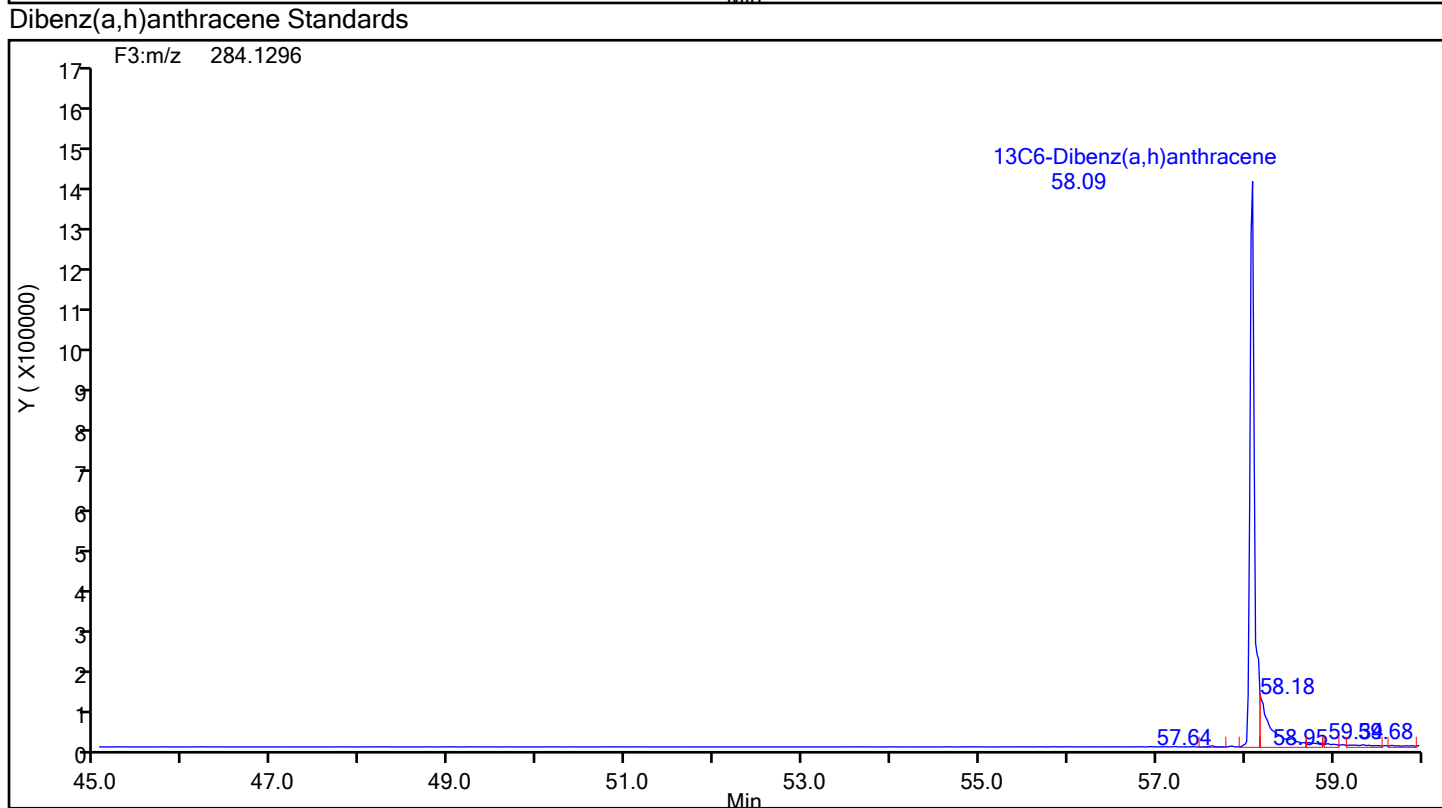
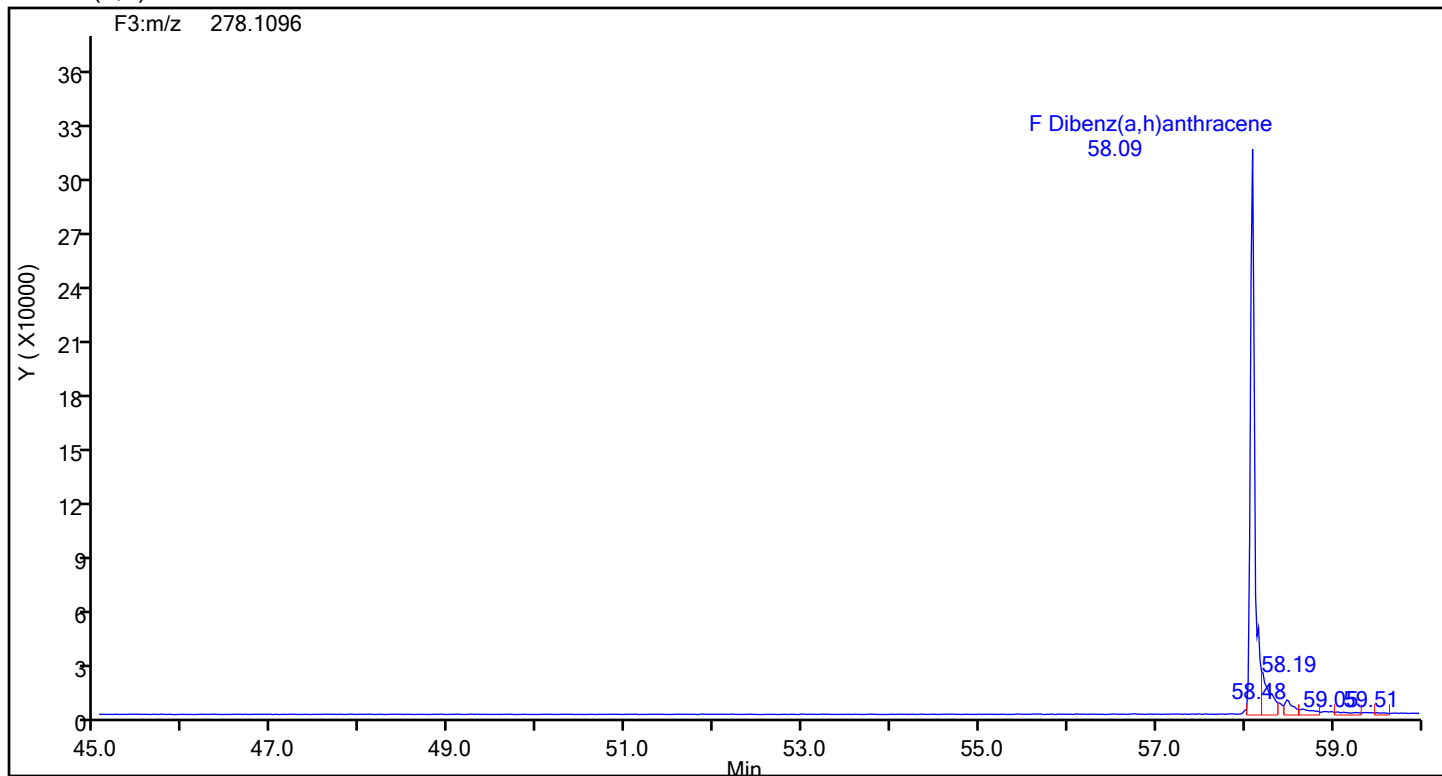
Reviewer: F9EE, 20-Jun-2024 09:35:58 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Dibenz(a,h)anthracene



Eurofins Knoxville

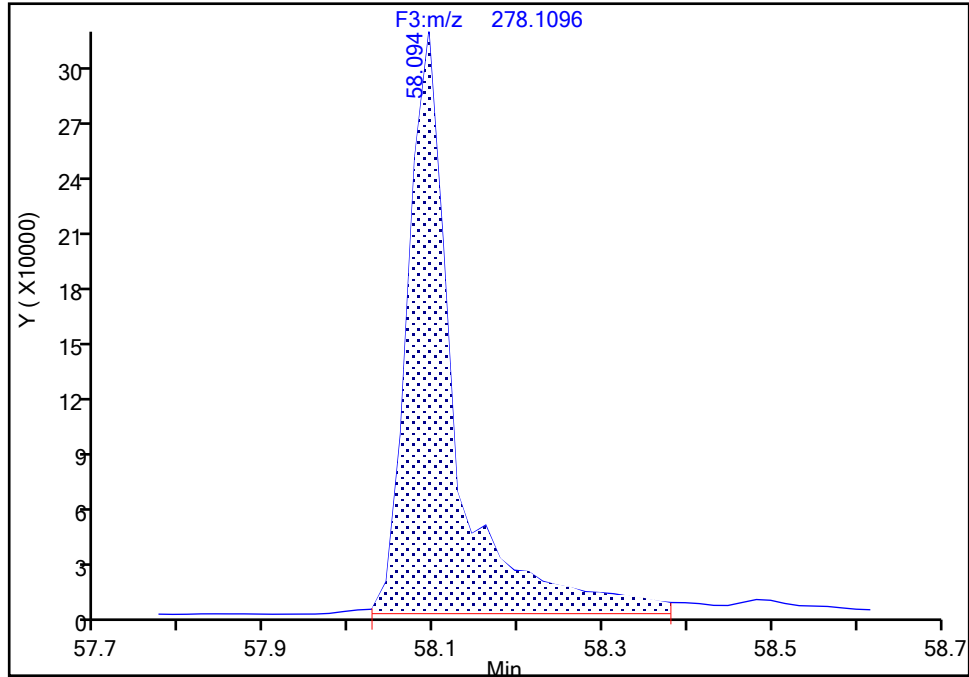
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

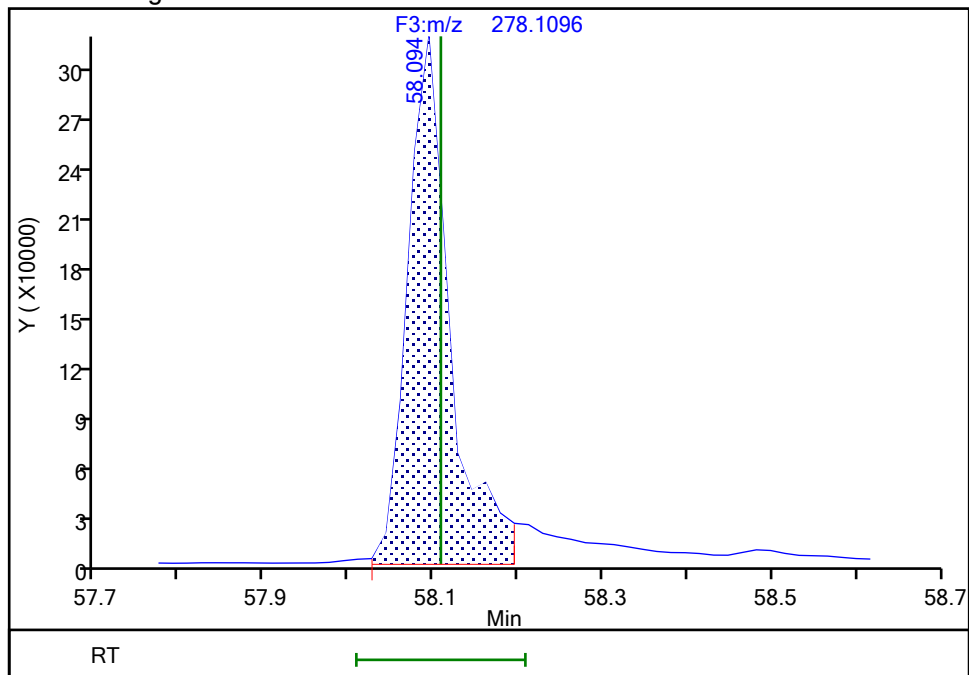
RT: 58.09
Area: 1232103
Amount: 21.755514
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
Area: 1098846
Amount: 19.471060
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:50 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

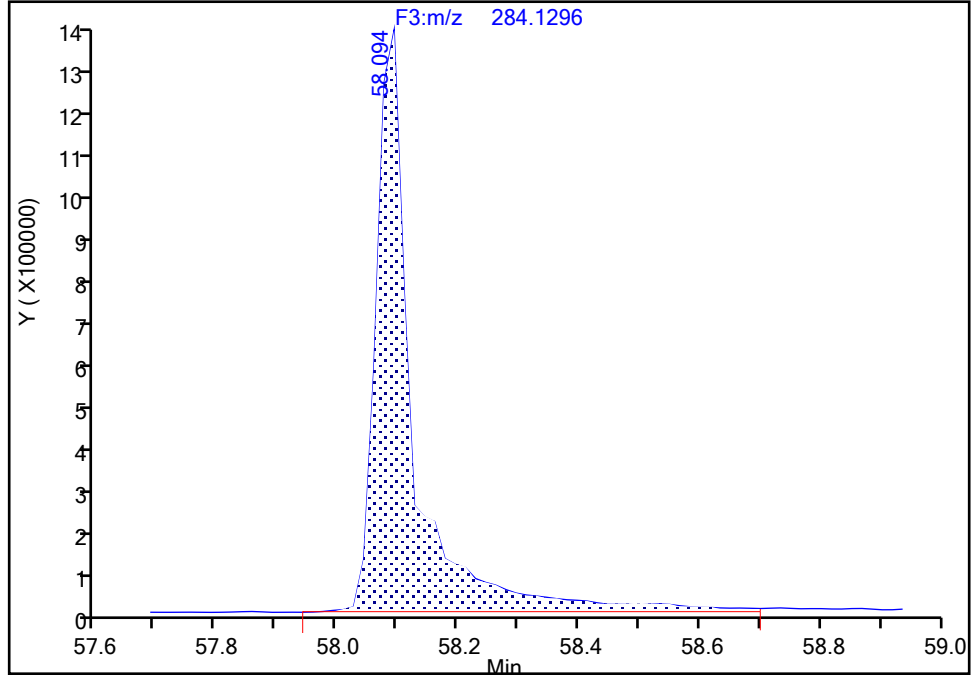
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

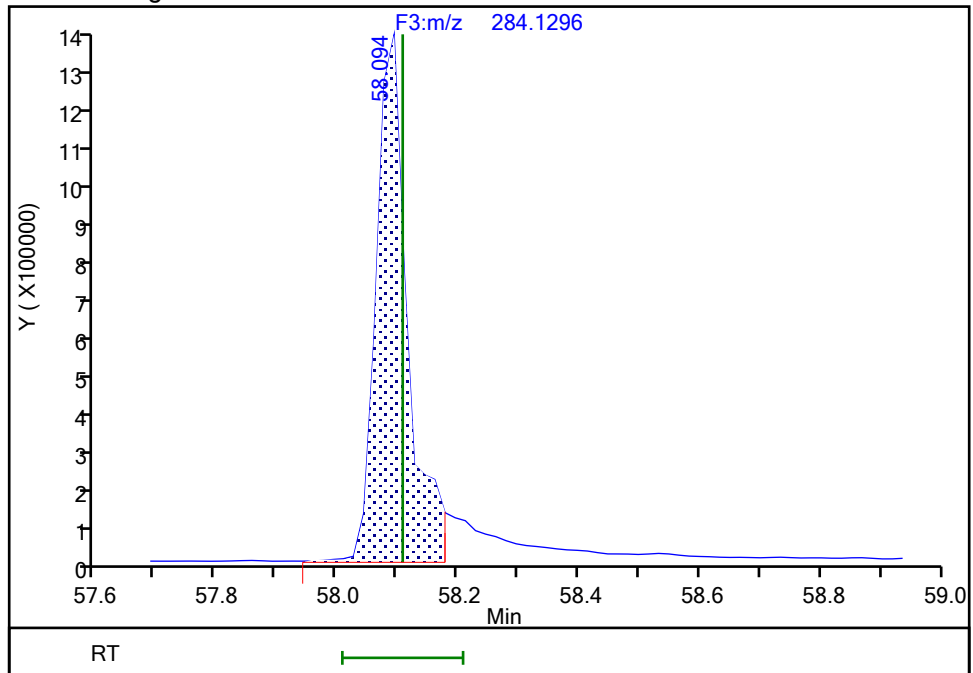
RT: 58.09
Area: 6017320
Amount: 102.2732
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
Area: 4988169
Amount: 94.323143
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:42 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d
 Lims ID: IC L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 19-Jun-2024 20:51:00 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-005
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 20-Jun-2024 09:51:46 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:36:48

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	10955076		3.3746	106.7	106.7	0.005904	0.005904	107	
Naphthalene	11:33	7473056		1.2893	52.9	52.9	0.0245	0.0245	106	
D 13C6-2-Methylnaphthalene	13:52	4932932		1.6031	101.1	101.1	0.001290	0.001290	101	
2-Methylnaphthalene	13:52	3363658		1.2786	53.3	53.3	0.0222	0.0222	107	
D 13C6-Acenaphthylene	16:44	5031692		1.6520	100.1	100.1	0.000683	0.000683	100	
Acenaphthylene	16:45	3367785		2.3661	48.6	48.6	0.0245	0.0245	97.16	
* Acenaphthene-d10	17:19	3042646		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	2929756		0.9792	98.3	98.3	0.001632	0.001632	98.34	
Acenaphthene	17:26	1886298		1.2697	50.7	50.7	0.0296	0.0296	101	
D 13C6-Fluorene	19:43	2645576		0.8898	97.7	97.7	0.000211	0.000211	97.71	
Fluorene	19:44	1683007		1.2532	50.8	50.8	0.0362	0.0362	102	
D 13C6-Phenanthrene	25:07	4005566		0.5724	100.0	100.0	0.003590	0.003590	100	
Phenanthrene	25:07	2244288		1.1044	50.7	50.7	0.0388	0.0388	101	
\$ Anthracin-d10	25:20	2982348		0.4257	100.2	100.2	0.001252	0.001252	100	
D 13C6-Anthracene	25:26	3095933		0.4523	97.9	97.9	0.004543	0.004543	97.86	
Anthracene	25:27	2030307		1.3586	48.3	48.3	0.0433	0.0433	96.54	
D 13C6-Fluoranthrene	33:52	8354538		1.1994	99.6	99.6	0.0211	0.0211	99.59	
Fluoranthene	33:53	4770414		1.1513	49.6	49.6	0.0165	0.0165	99.19	
* Pyrene-d10	35:25	6994144		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	9271369		1.3512	98.1	98.1	0.0130	0.0130	98.10	
Pyrene	35:34	4880169		1.0652	49.4	49.4	0.0164	0.0164	98.83	
\$ 13C6-Benzo(c)fluorene	39:16	3562609		0.5136	99.2	99.2	0.002964	0.002964	99.18	
D 13C6-Benzo(a)anthracene	46:06	7783391		1.5189	96.4	96.4	0.0149	0.0149	96.35	
Benzo[a]anthracene	46:06	3701131		0.9739	48.8	48.8	0.0259	0.0259	97.66	
D 13C6-Chrysene	46:23	8407429		1.6287	97.1	97.1	0.0139	0.0139	97.06	
Chrysene	46:23	4046826		0.9815	49.0	49.0	0.0248	0.0248	98.09	
D 13C6-Benzo(b)fluoranthene	54:38	7699352		1.4621	99.0	99.0	0.000971	0.000971	99.02	
Benzo[b]fluoranthene	54:39	4268765		1.1249	49.3	49.3	0.008037	0.008037	98.57	
\$ 13C12-Benzo(j)fluoranthene	54:40	6879595		1.3558	95.4	95.4	0.0142	0.0142	95.41	
D 13C6-Benzo(k)fluoranthene	54:46	9021801		1.7507	96.9	96.9	0.000811	0.000811	96.90	
Benzo[k]fluoranthene	54:46	4838139		1.1271	47.6	47.6	0.007450	0.007450	95.16	
* Benzo(e)pyrene-d12	55:29	5318283		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:33	8346864		1.6368	95.9	95.9	0.0109	0.0109	95.88	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:34	4054021		1.0013	48.5	48.5	0.006790	0.006790	97.02	
Benzo[a]pyrene	55:43	4220425		1.1130	47.9	47.9	0.006988	0.006988	95.80	
D 13C4-Benzo(a)pyrene	55:43	7915726		1.5508	96.0	96.0	0.0115	0.0115	95.98	
D Perylene-d12	55:53	6306802		1.1917	99.5	99.5	0.0156	0.0156	99.51	
Perylene	55:57	4390716		1.4307	48.7	48.7	0.006162	0.006162	97.32	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	4835402		1.0218	89.0	89.0	0.009555	0.009555	88.98	
Indeno[1,2,3-cd]pyrene	58:01	2816296		1.1249	51.8	51.8	0.007698	0.007698	104	
D 13C6-Dibenz(a,h)anthracene	58:06	5397040		1.0553	96.2	96.2	0.004680	0.004680	96.17	M
Dibenz(a,h)anthracene	58:06	2789079		1.1314	45.7	45.7	0.006309	0.006309	91.35	M
D 13C12-Benzo(ghi)perylene	58:29	6552075		1.2749	96.6	96.6	0.005655	0.005655	96.64	M
Benzo[g,h,i]perylene	58:30	3911770		1.2838	46.5	46.5	0.006063	0.006063	93.01	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS4a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 19-Jun-2024 20:51:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-005
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:46 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:36:48

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:33	-1	0.666	10955076	3690318	85	212	43416		
Naphthalene											
128.0626	11:33	11:34	-1	1.001	7473056	2421498	467	1167	5185		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	-1	0.800	4932932	2219700	9	22	246633		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.000	3363658	1603367	252	630	6363		
13C6-Acenaphthylene											
158.0828	16:44	16:45	-1	0.966	5031692	1788464	5	12	357693		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	3367785	1171577	235	587	4985		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3042646	1064056	1	2	1064056		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	2929756	1010685	7	17	144384		
Acenaphthene											
154.0783	17:26	17:27	-1	1.001	1886298	641803	152	380	4222		
13C6-Fluorene											
172.0984	19:43	19:45	-1	1.139	2645576	771302	1	2	771302		
Fluorene											
166.0783	19:44	19:45	-1	1.001	1683007	495116	140	350	3537		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	4005566	933714	11	27	84883		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	2244288	517487	160	400	3234		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	2982348	664576	3	7	221525		
13C6-Anthracene											
184.0984	25:26	25:28	-1	0.718	3095933	679951	11	27	61814		
Anthracene											
178.0783	25:27	25:28	-1	1.000	2030307	457999	160	400	2862		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	8354538	1617360	133	332	12161		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	4770414	908731	123	307	7388		
Pyrene-d10											
212.1404	35:25	35:27	-2		6994144	1313834	42	105	31282		
13C3-Pyrene											
205.0883	35:34	35:35	-2	1.004	9271369	1754432	92	230	19070		
Pyrene											
202.0783	35:34	35:35	-2	1.000	4880169	909669	123	307	7396		
13C6-Benzo(c)fluorene											
222.1134	39:16	39:18	-2	0.708	3562609	636801	8	20	79600		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:07	-1	1.302	7783391	1336753	160	400	8355		
Benzo[a]anthracene											
228.0939	46:06	46:07	-1	1.000	3701131	660493	135	337	4893		
13C6-Chrysene											
234.1140	46:23	46:24	-1	1.309	8407429	1384733	160	400	8655		
Chrysene											
228.0939	46:23	46:25	-2	1.000	4046826	679022	135	337	5030		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	7699352	1991062	10	25	199106		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	4268765	1153146	72	180	16016		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	6879595	1746396	136	340	12841		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	9021801	2143610	10	25	214361		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	4838139	1188451	72	180	16506		
Benzo(e)pyrene-d12											
264.1692	55:29	55:30	-1		5318283	1761536	131	327	13447		
13C4-Benzo(e)pyrene											
256.1073	55:33	55:35	-2	1.001	8346864	2647431	126	315	21011		
Benzo[e]pyrene											
252.0939	55:34	55:35	-1	1.000	4054021	1299546	72	180	18049		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	4220425	1260424	72	180	17506		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	7915726	2314097	126	315	18366		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	6306802	2041734	131	327	15586		
Perylene											
252.0939	55:57	55:58	-1	1.001	4390716	1415669	72	180	19662		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	4835402	1674298	69	172	24265		
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	2816296	896117	58	145	15450		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	-1	1.047	5397040	1400928	35	87	40027		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	2789079	785976	40	100	19649		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	6552075	1862971	51	127	36529		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-1	1.000	3911770	1026772	58	145	17703		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS4a_00002

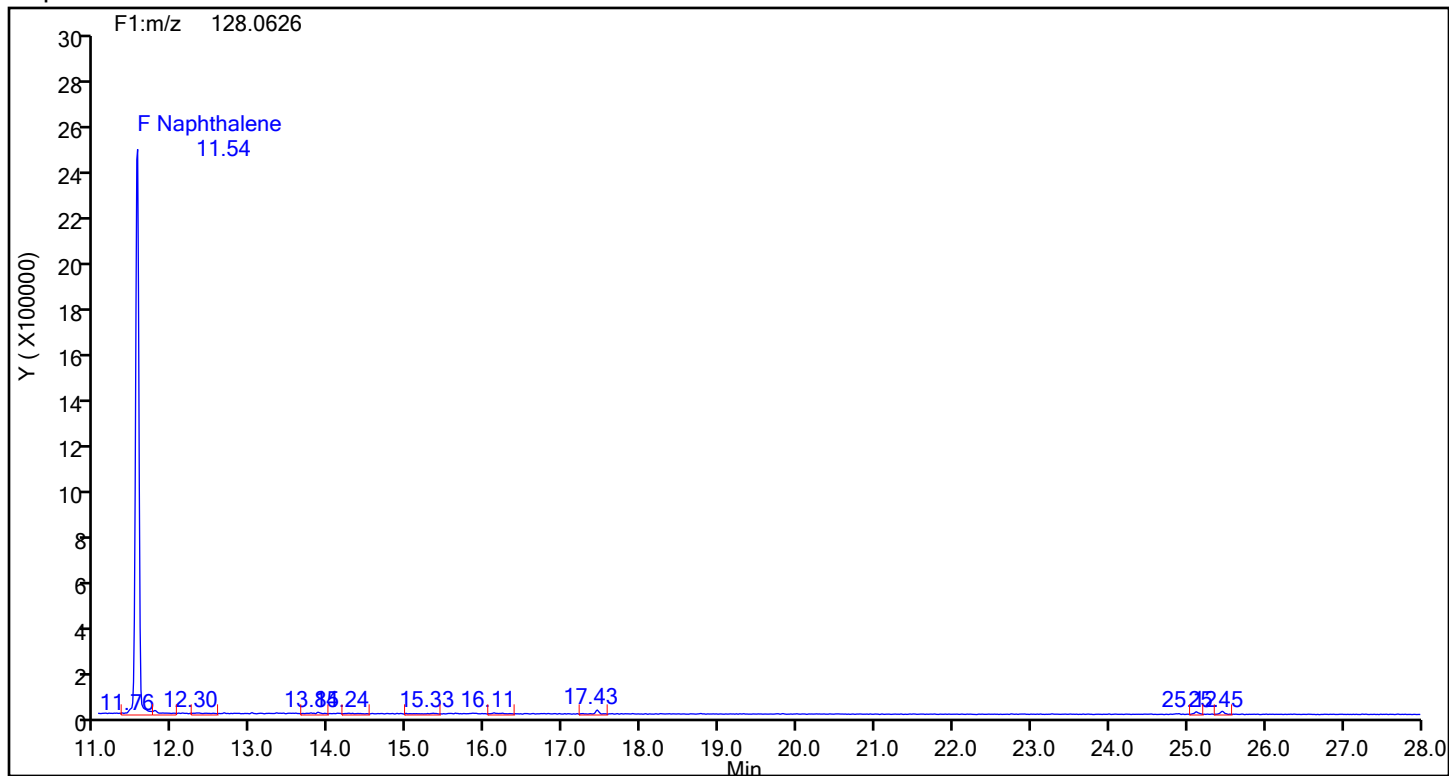
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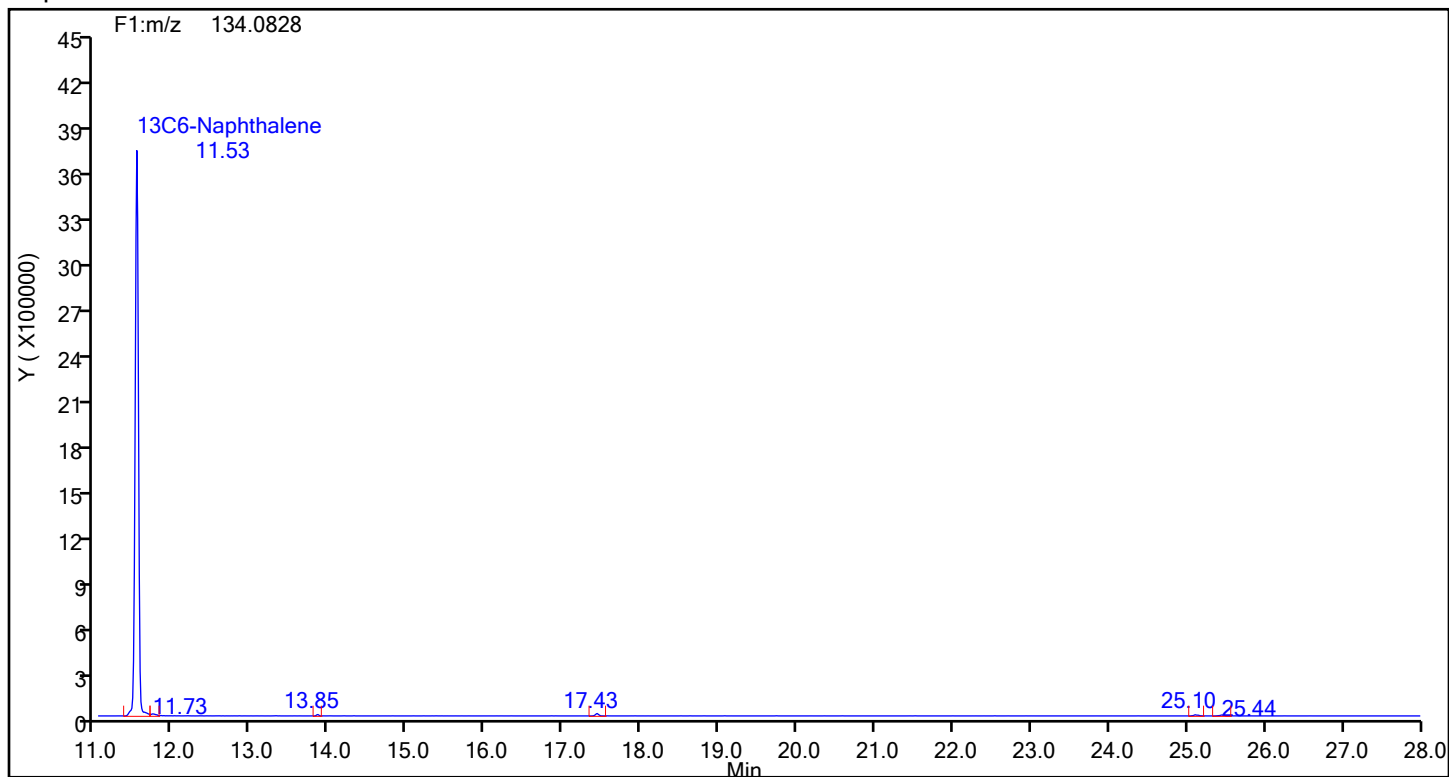
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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



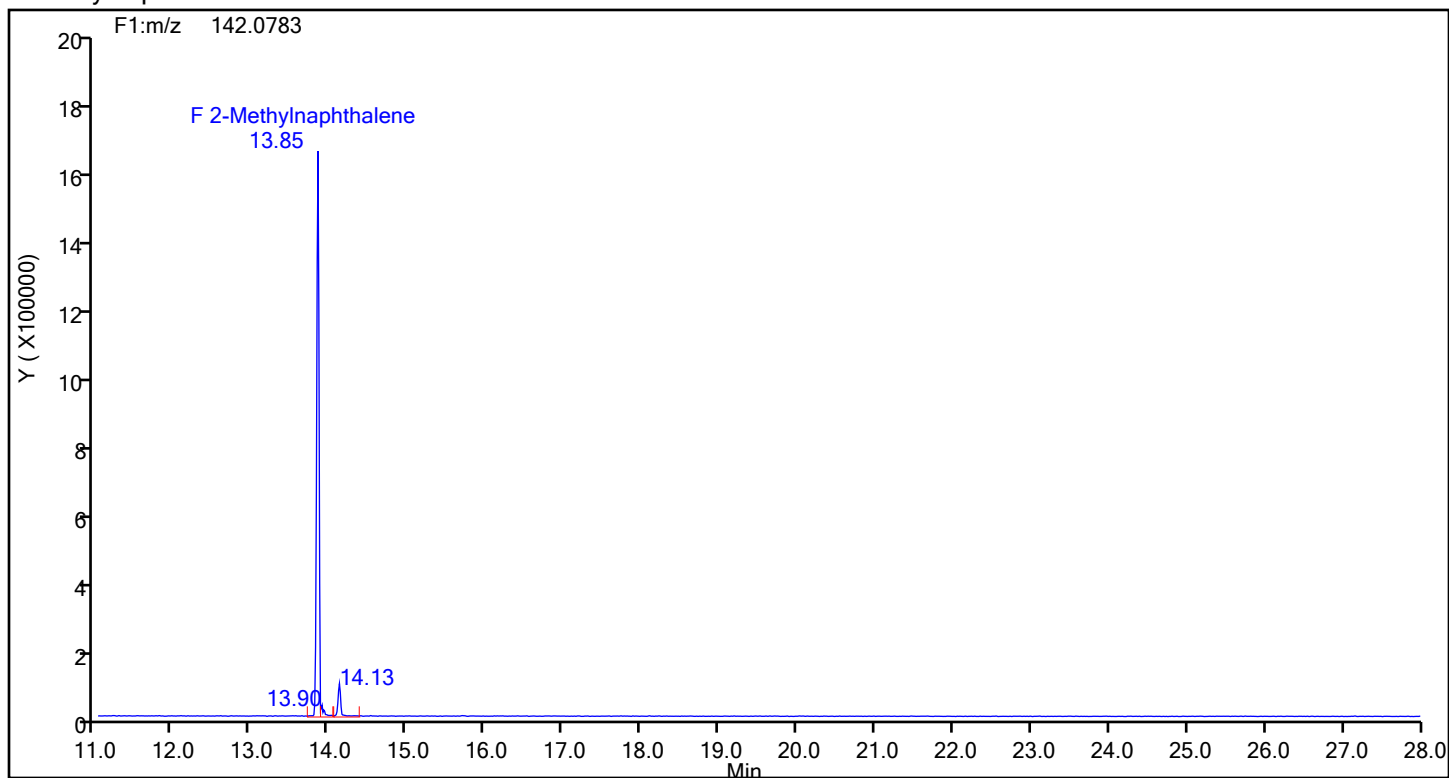
Naphthalene Standards



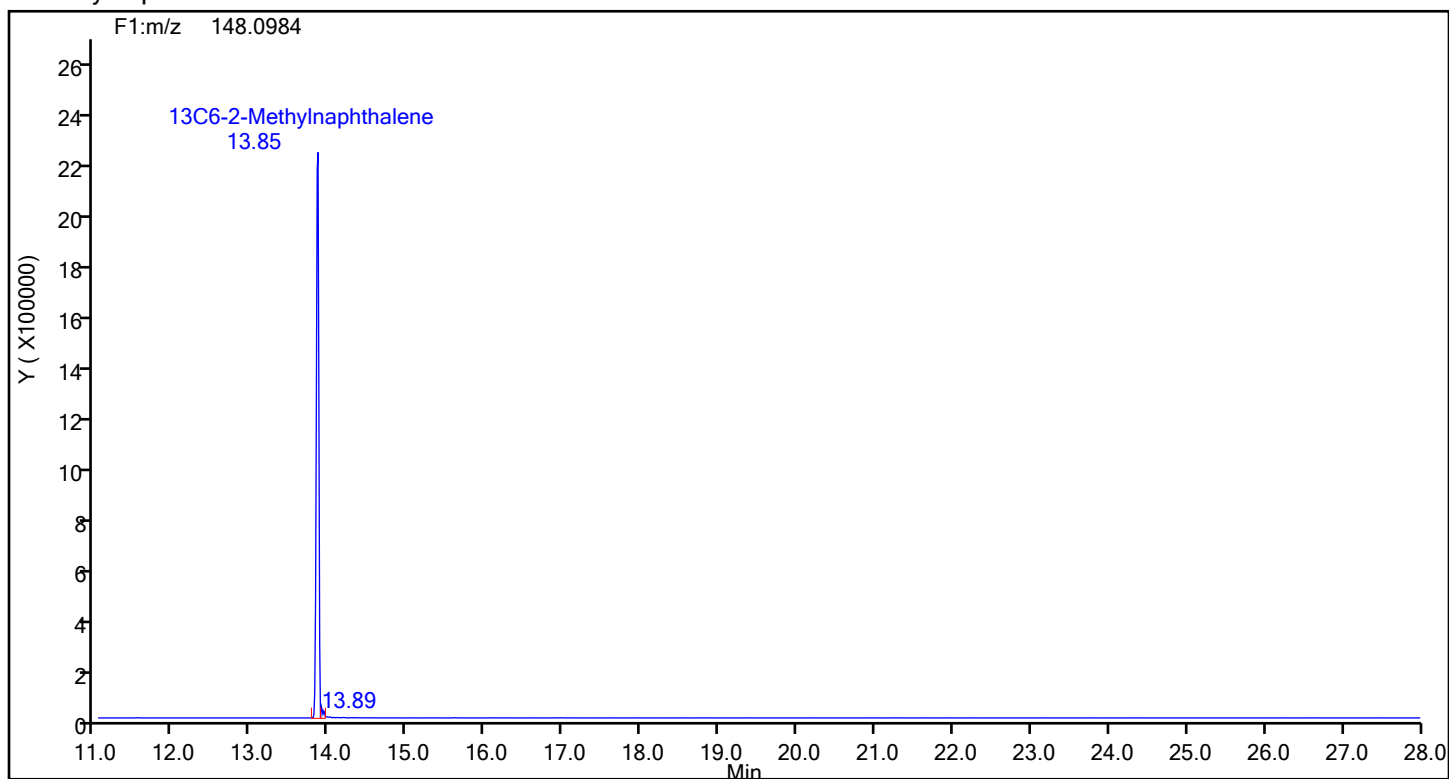
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



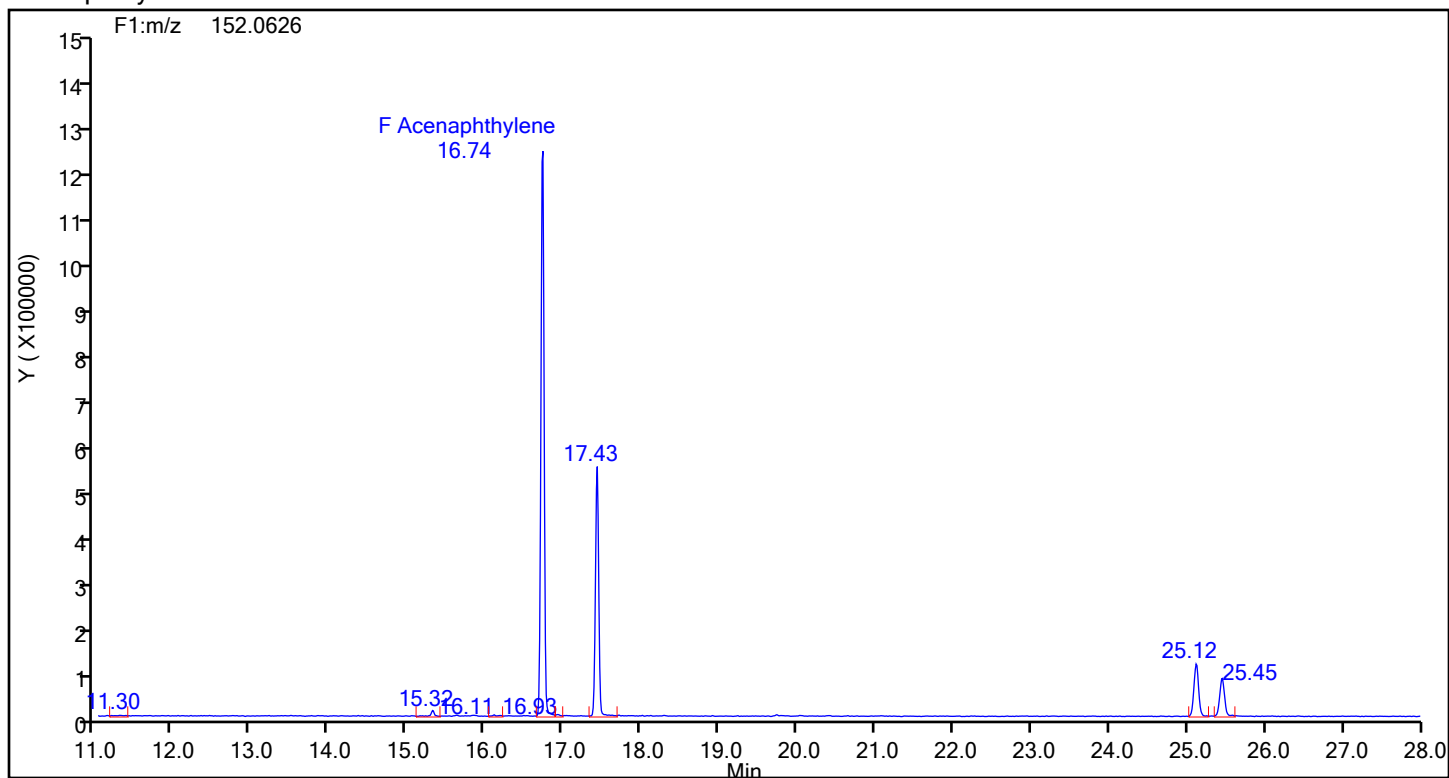
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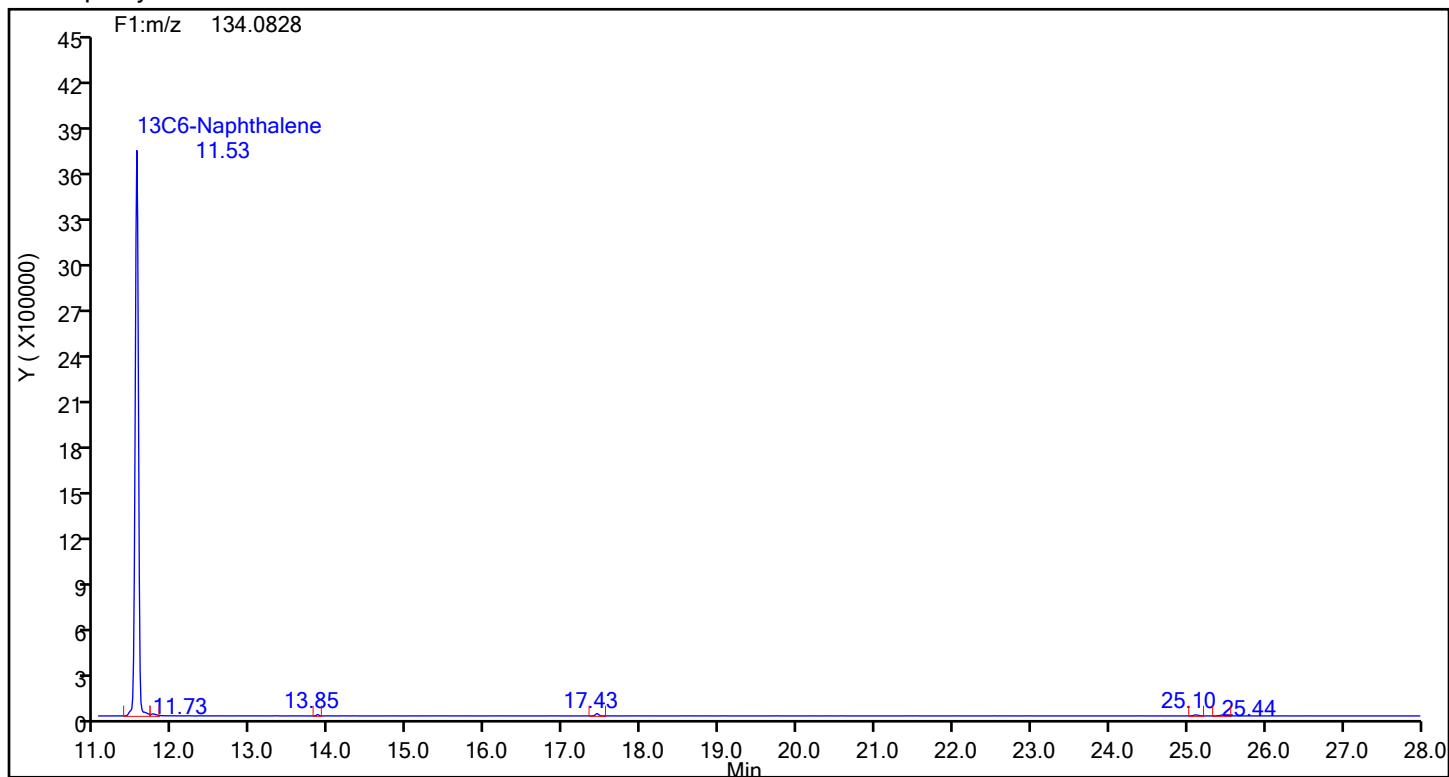
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene

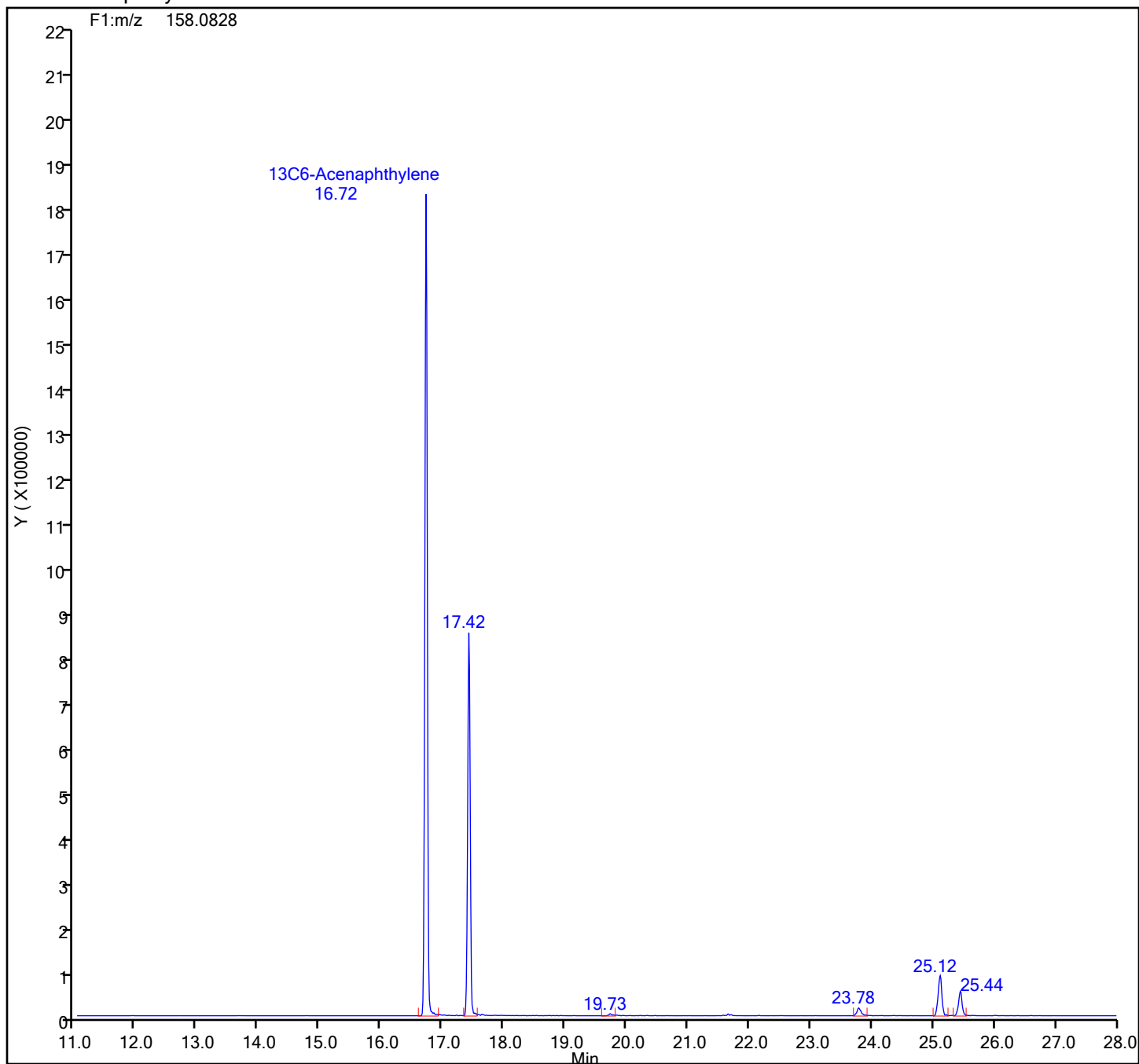


Acenaphthylene Standards



Eurofins Knoxville

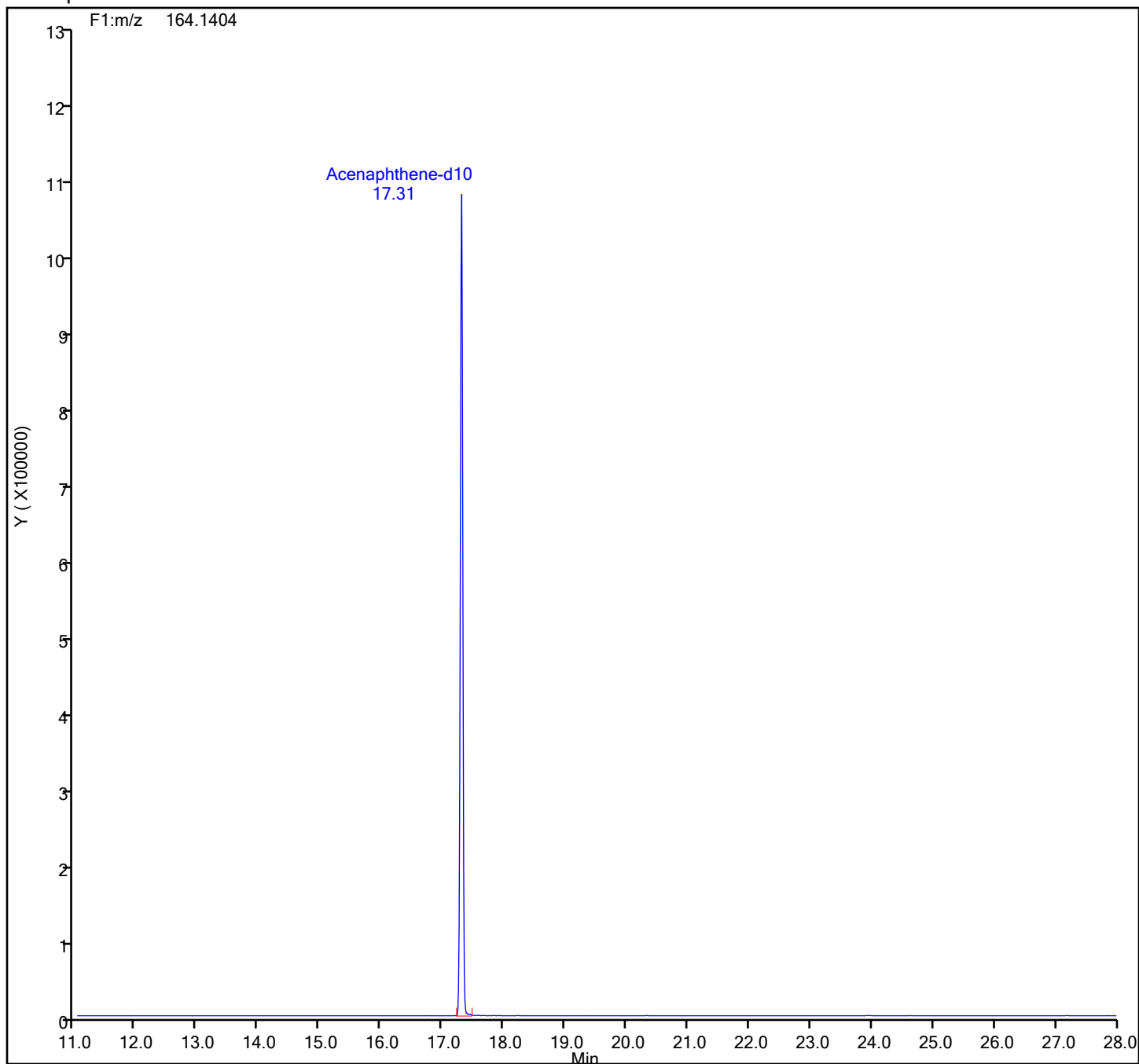
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13C6-Acenaphthylene Standards



Eurofins Knoxville

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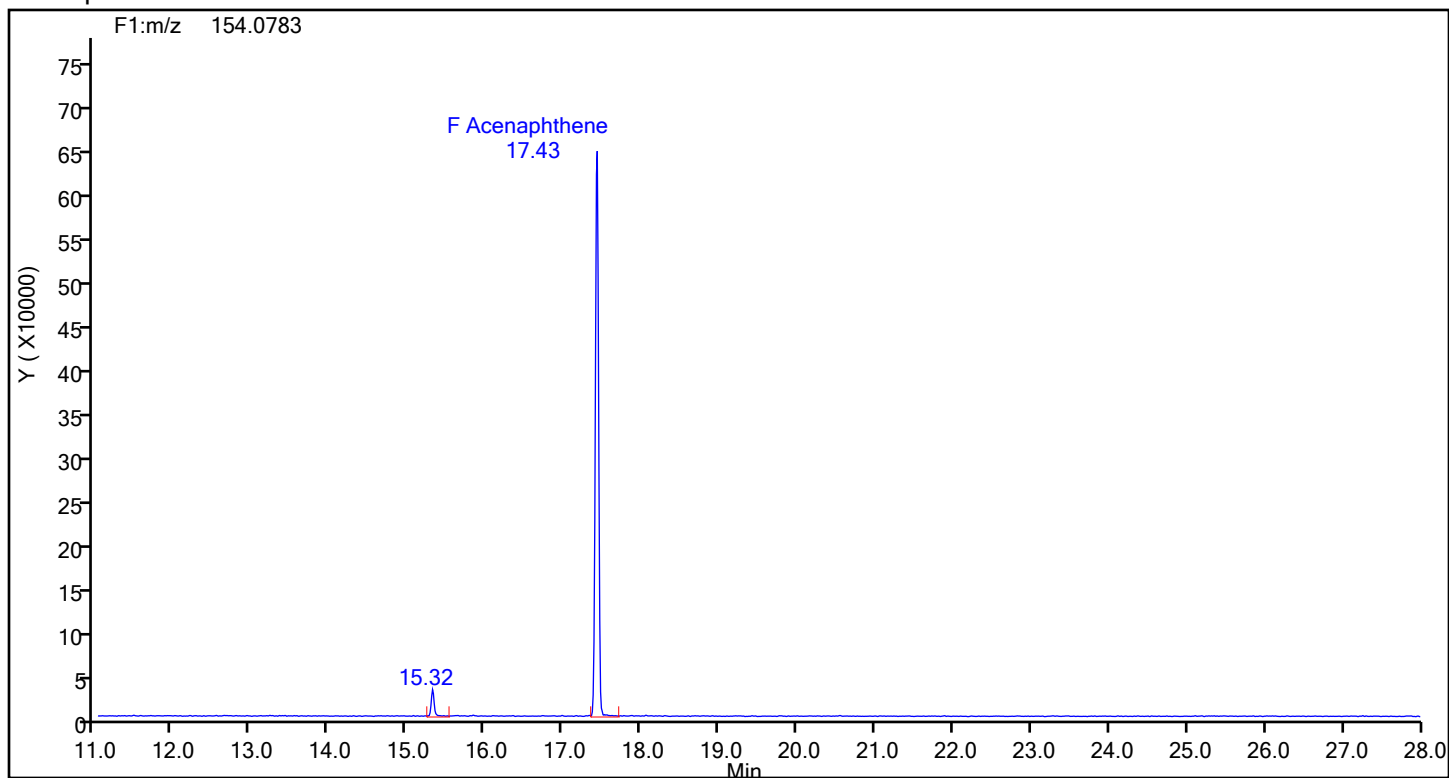
Acenaphthene-d10 Standards



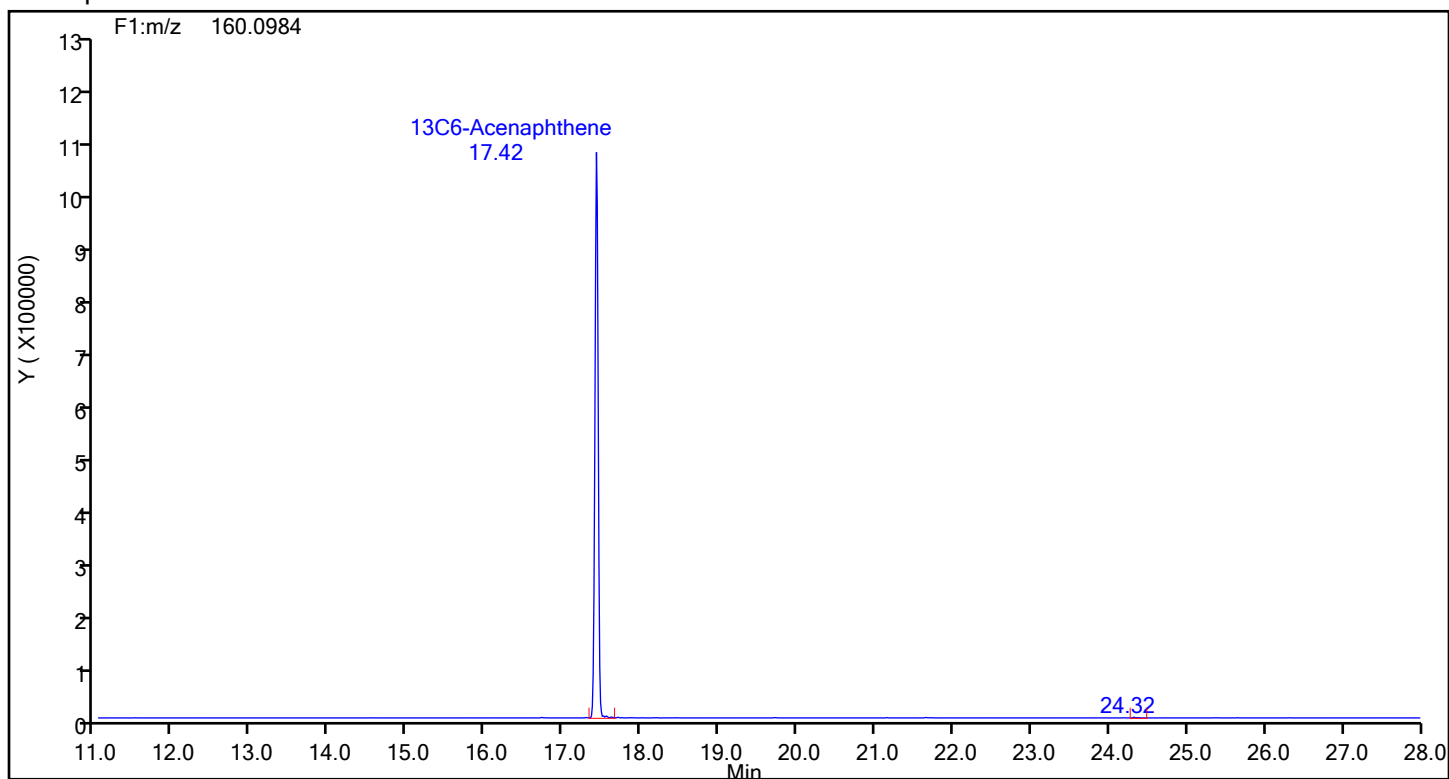
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Acenaphthene



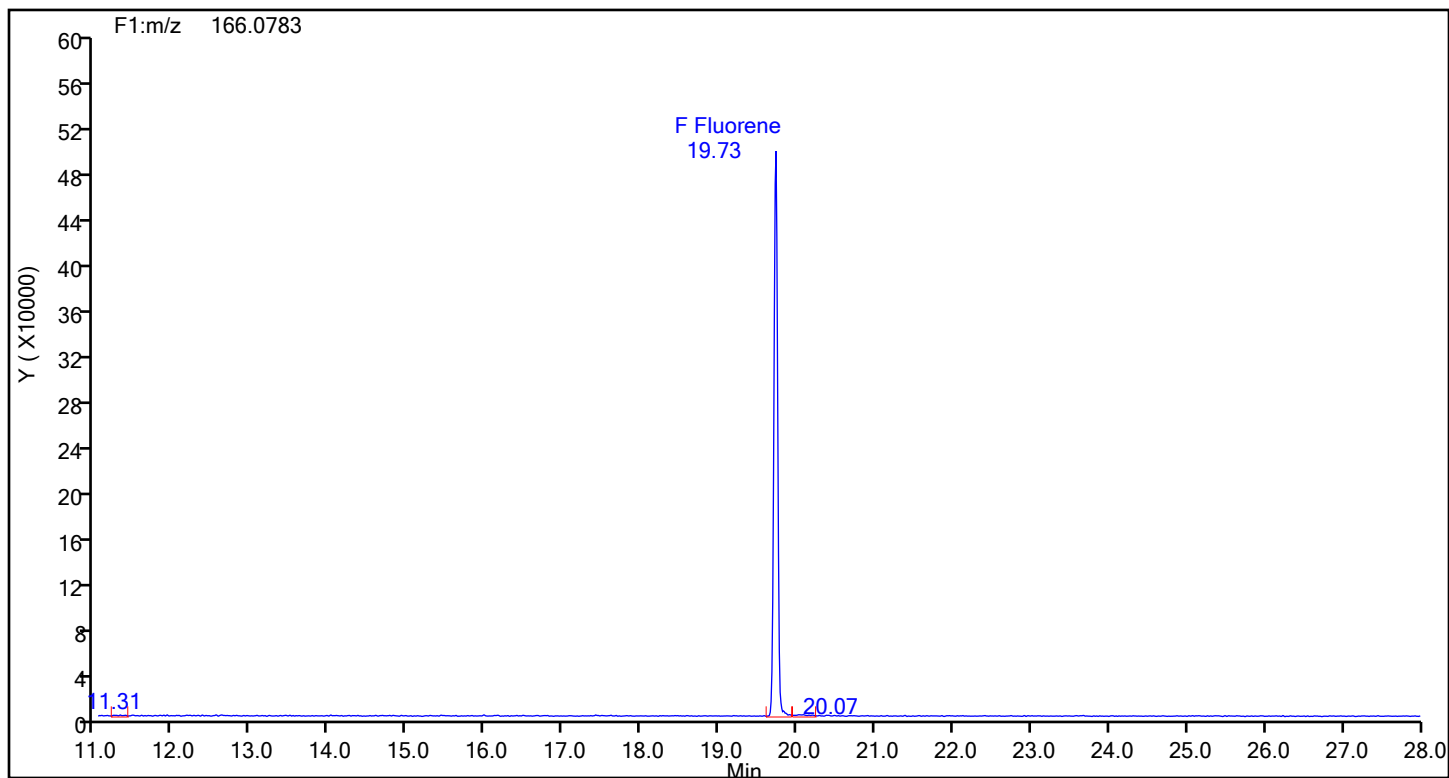
Acenaphthene Standards



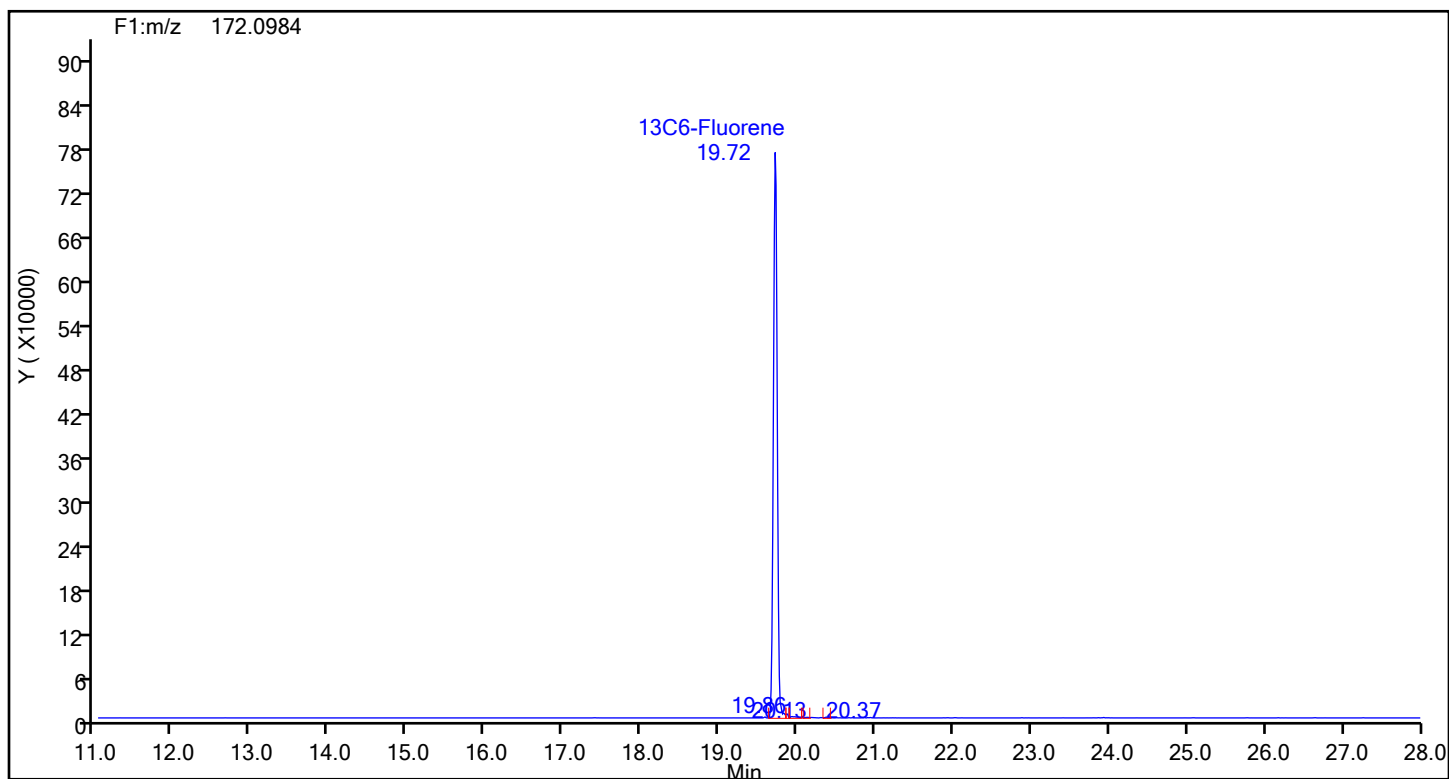
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Fluorene

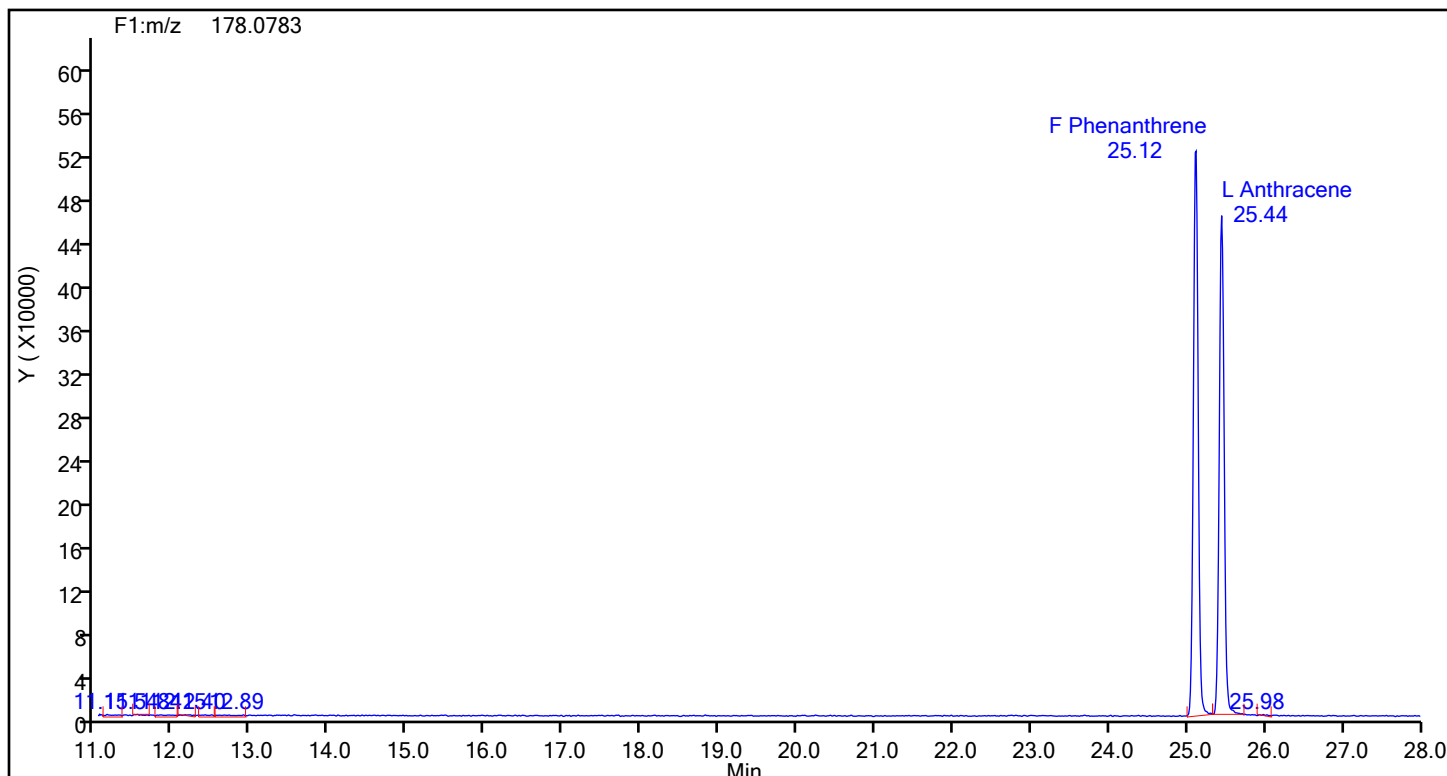


Fluorene Standards

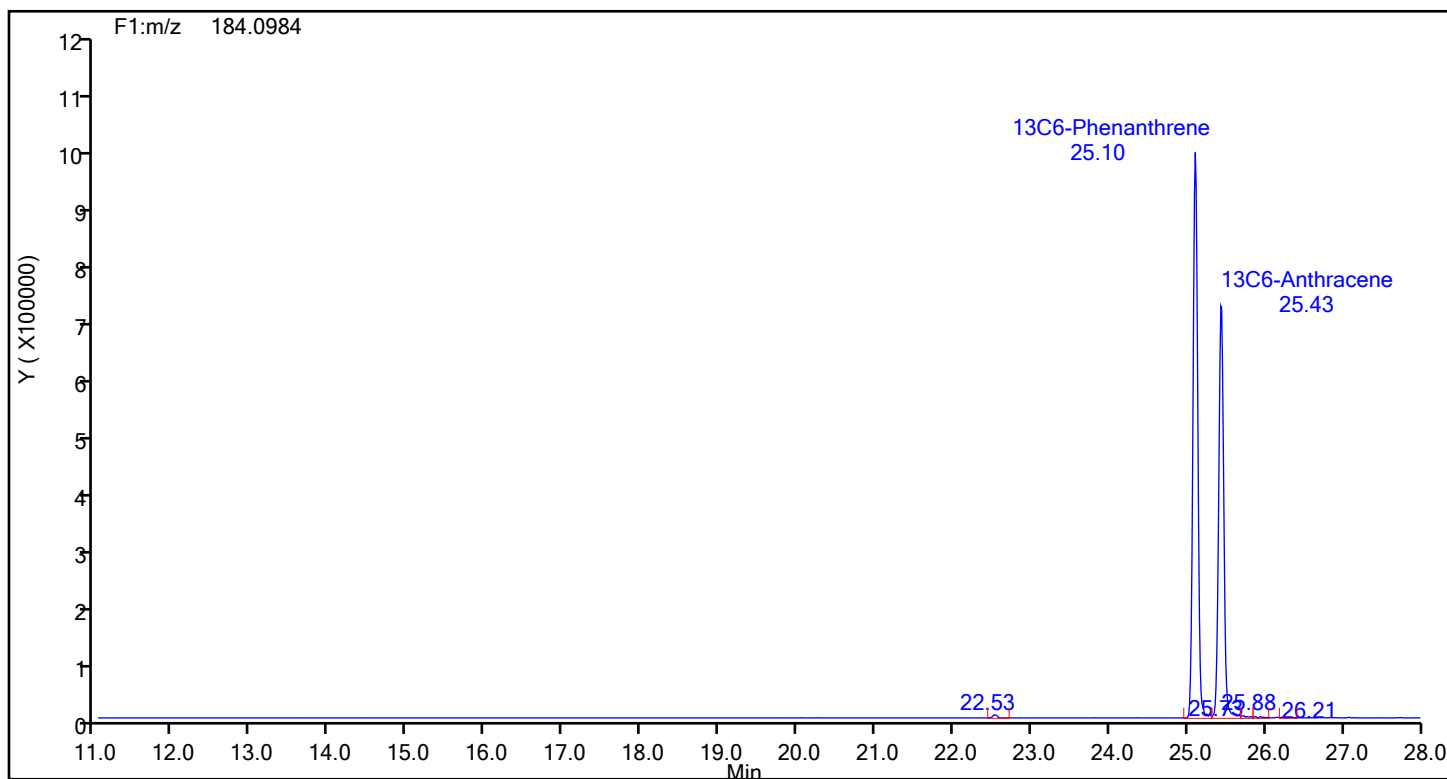


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Phenanthrene

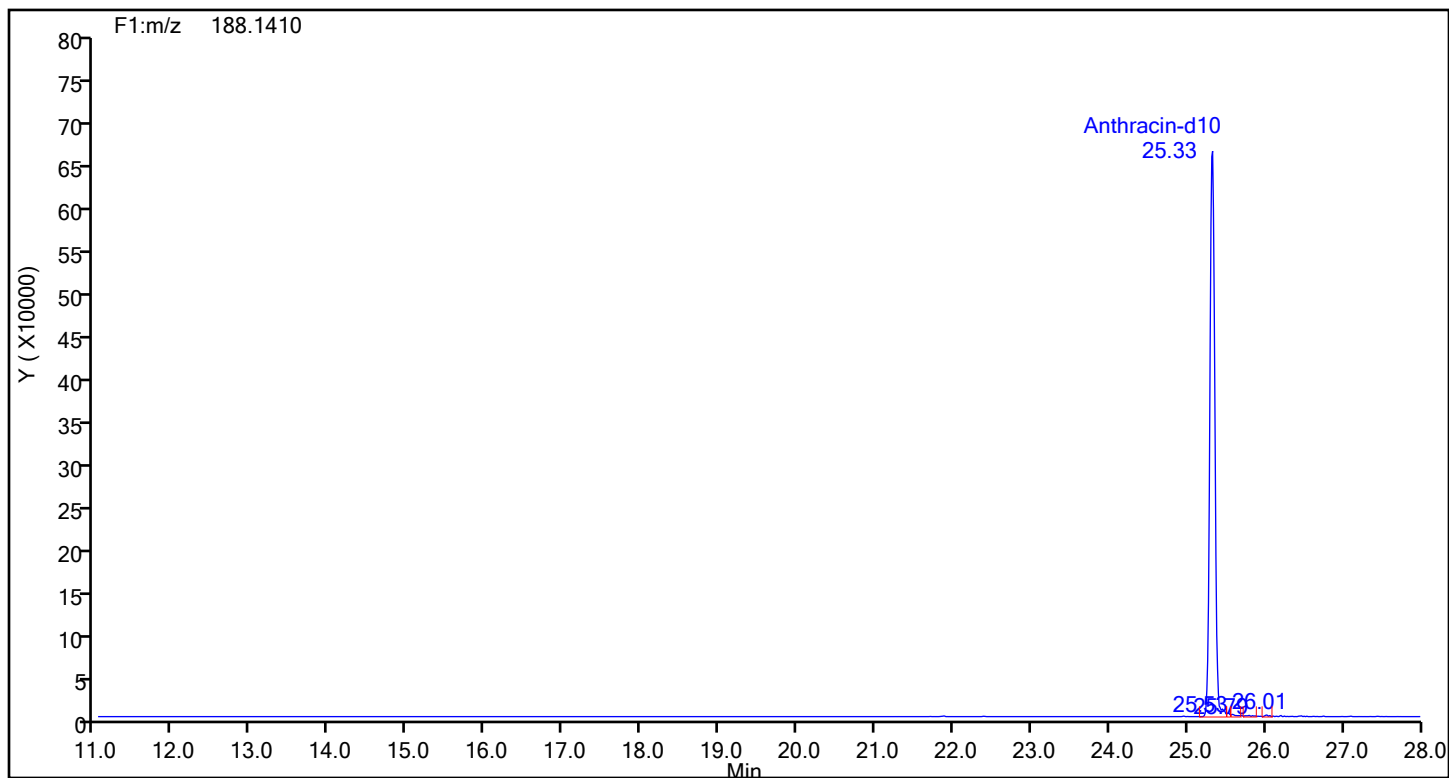


Phenanthrene Standards

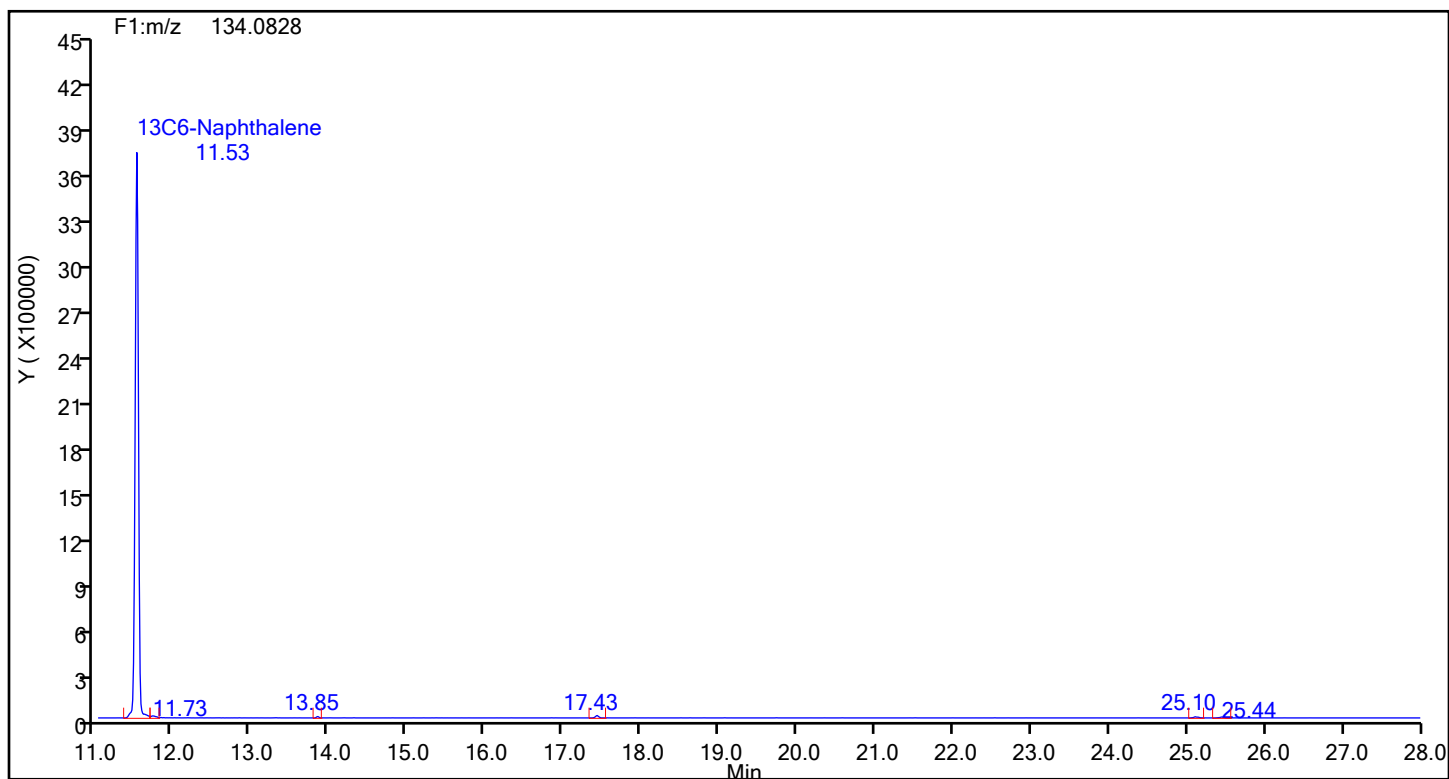


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Anthracin-d10

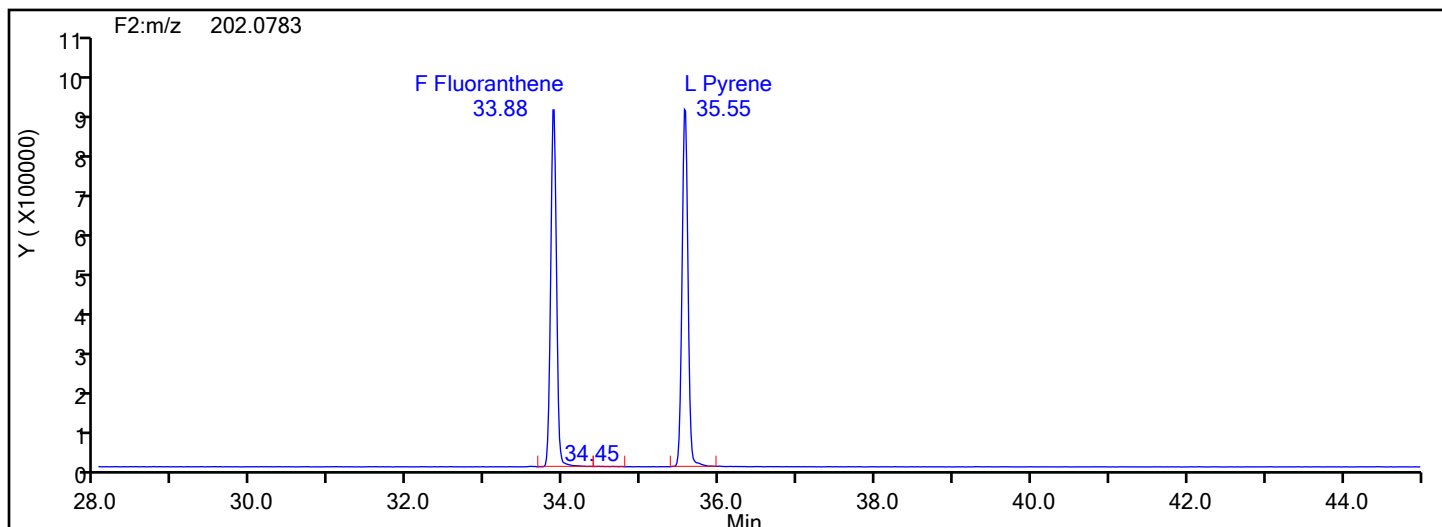


Anthracin-d10 Standards

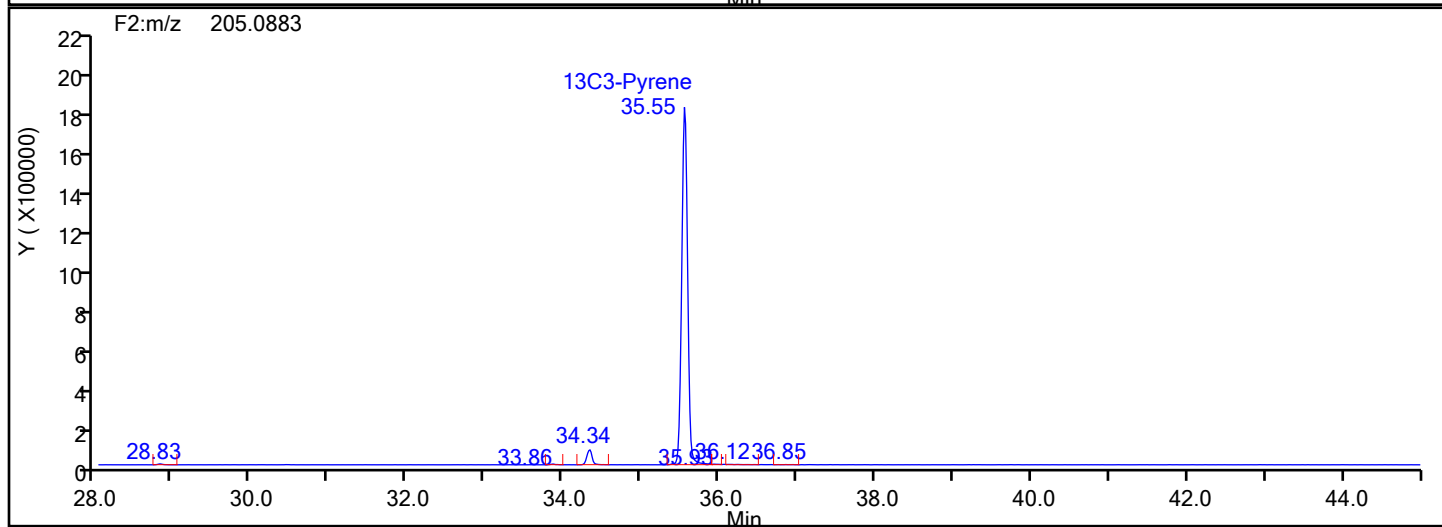
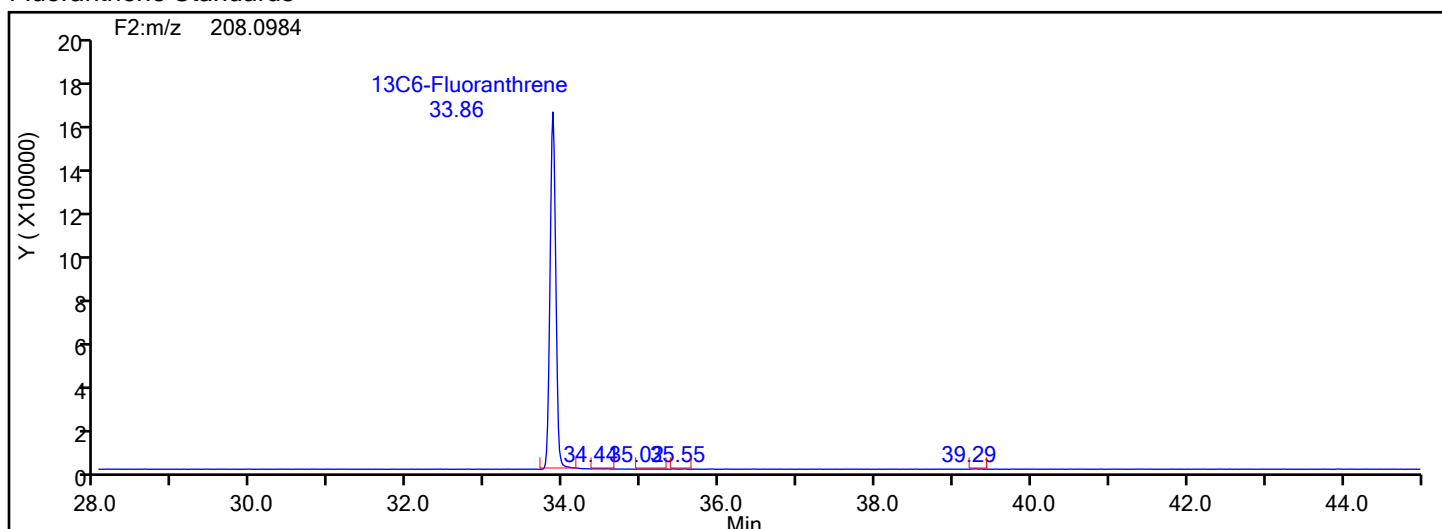


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Fluoranthene



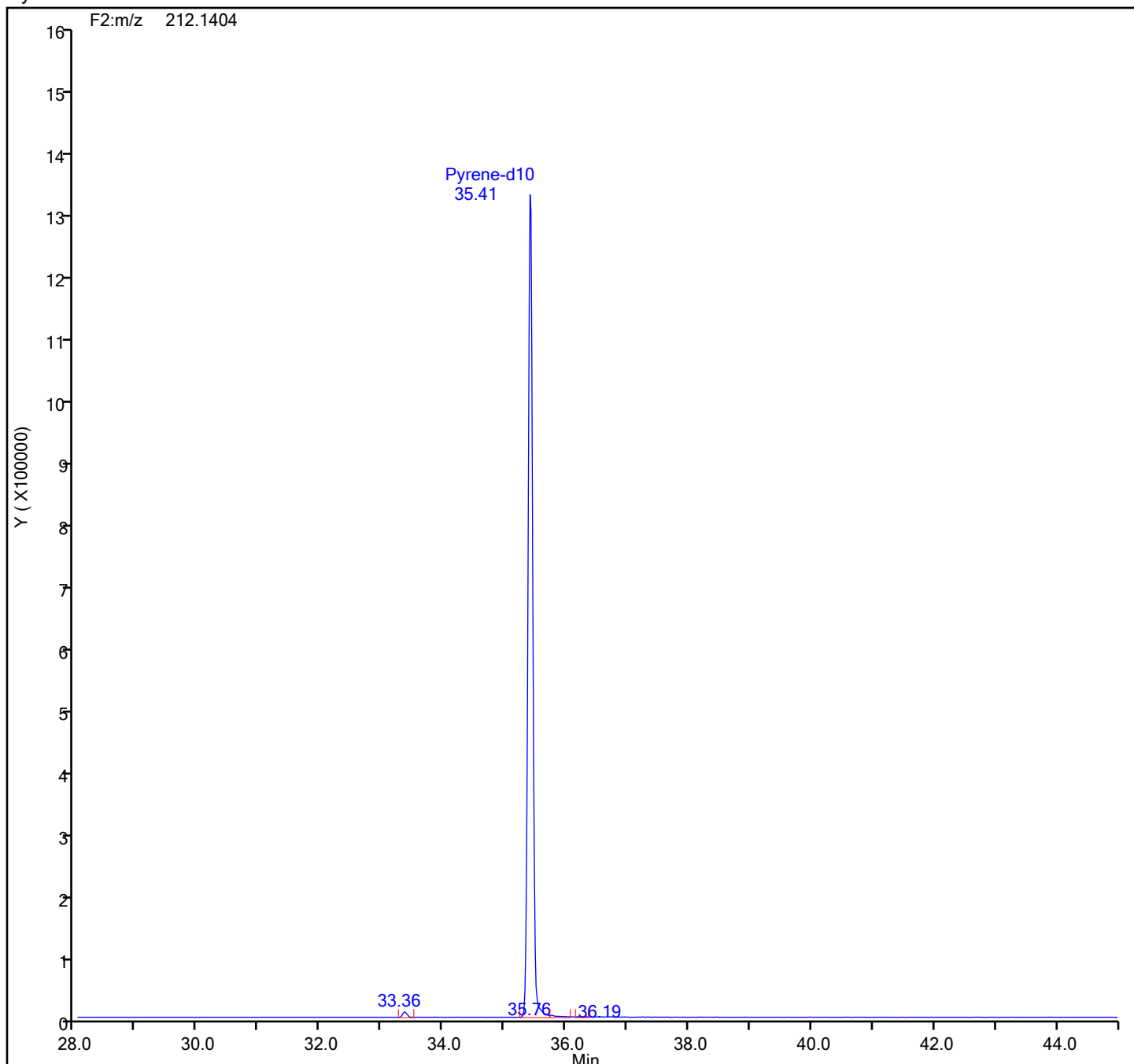
Fluoranthene Standards



Eurofins Knoxville

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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

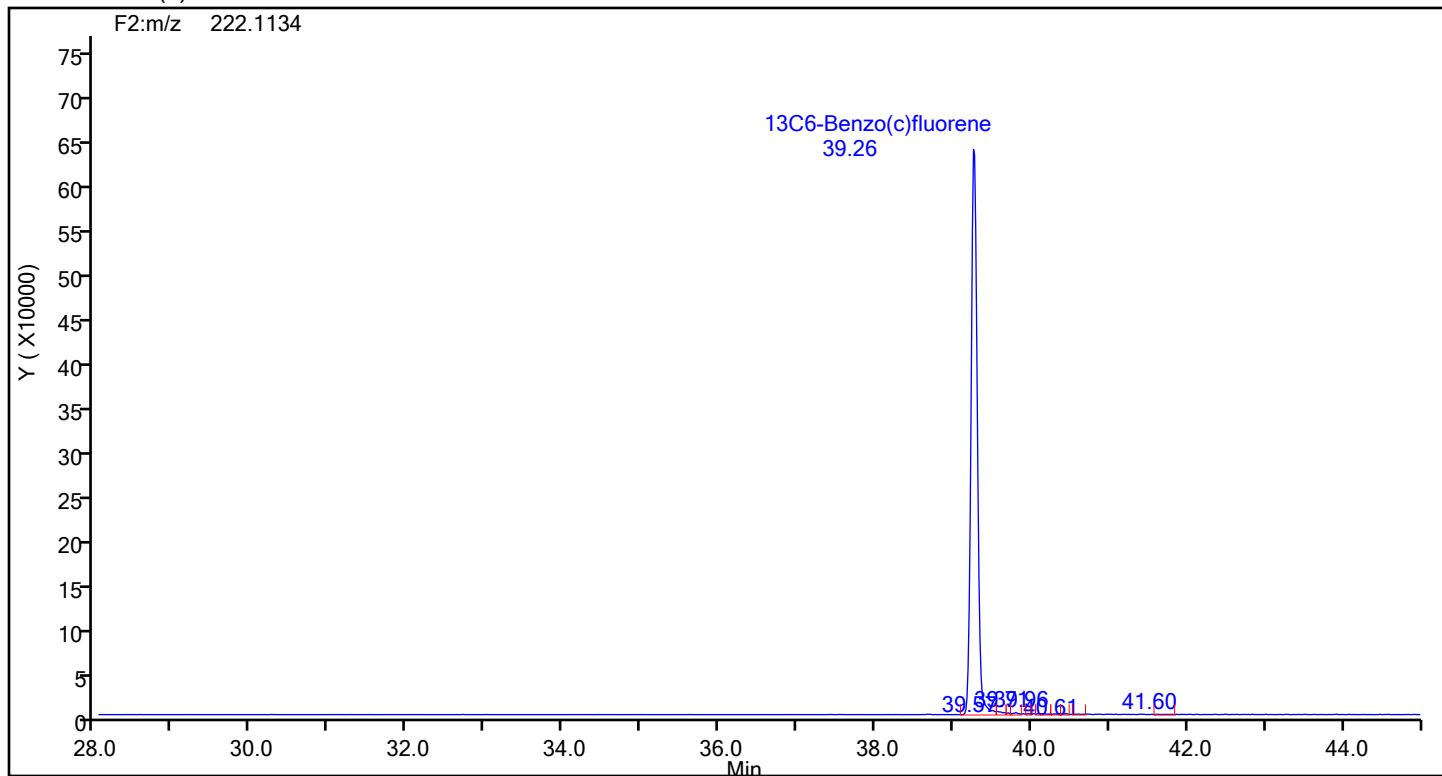
Pyrene-d10 Standards



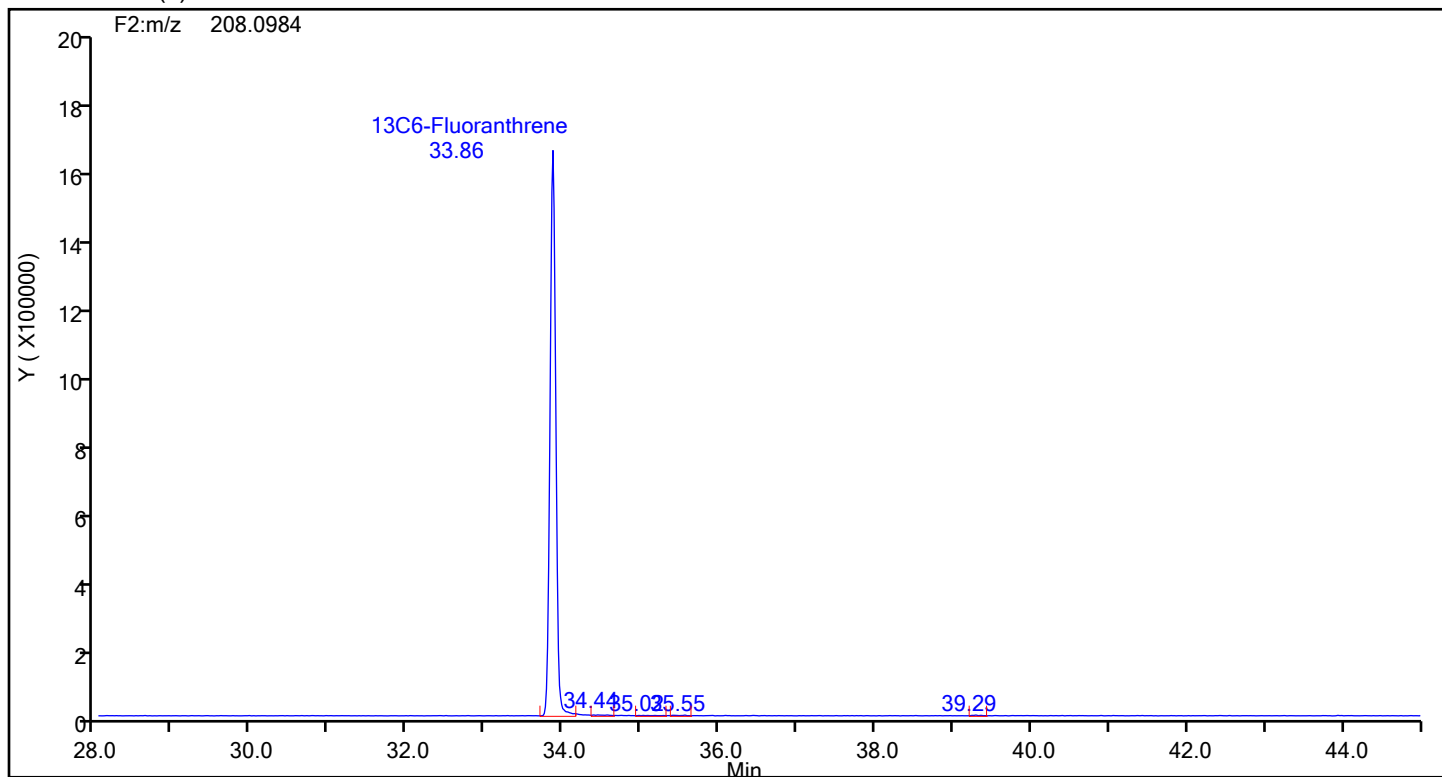
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



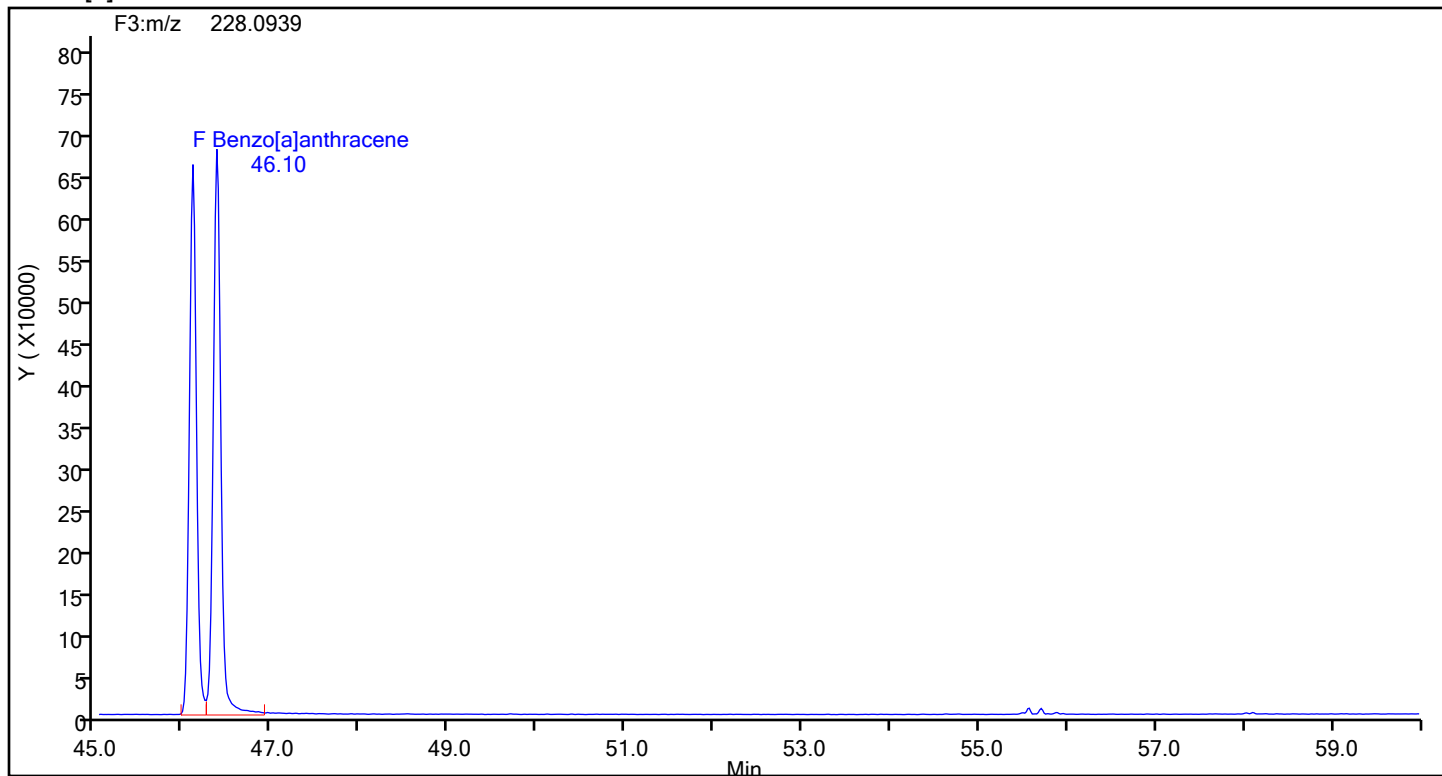
13C6-Benzo(c)fluorene Standards



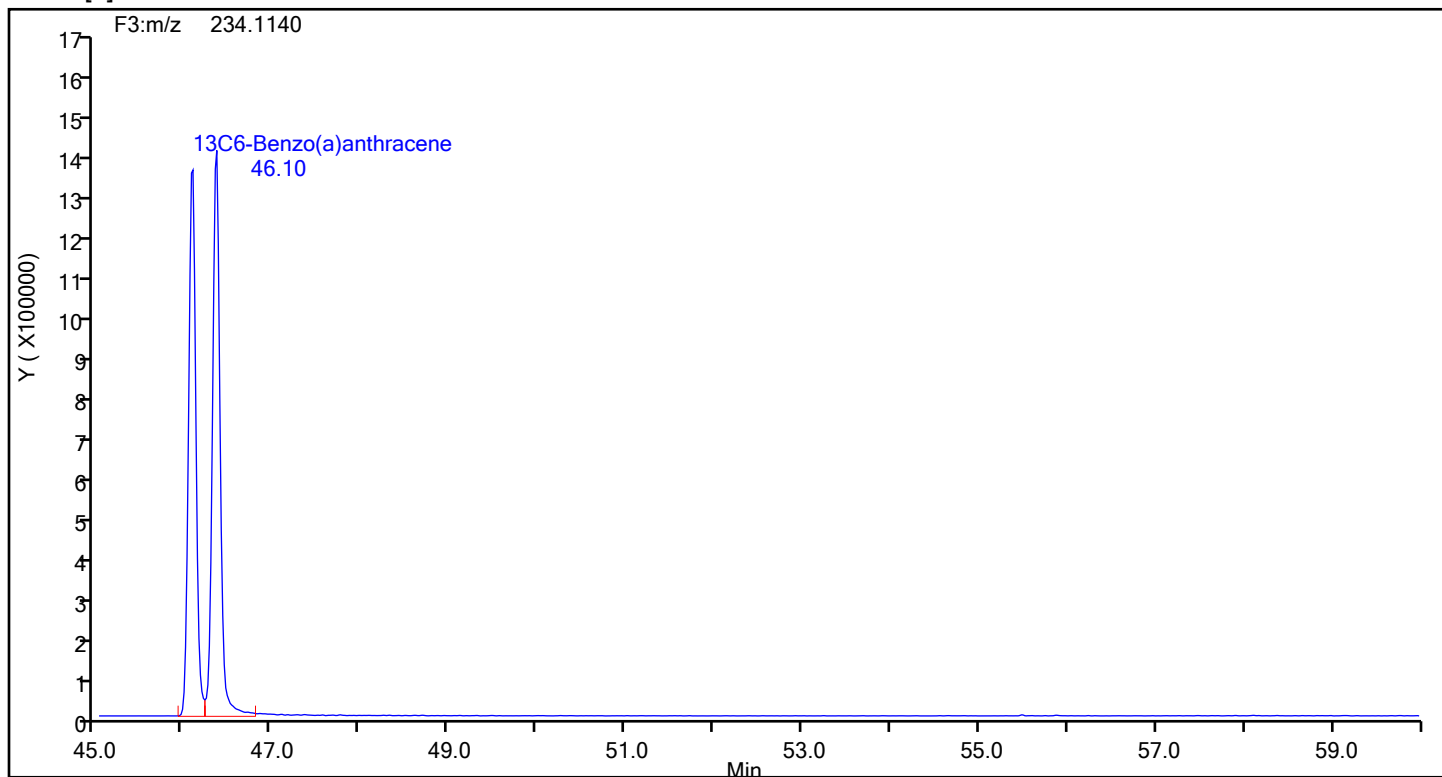
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Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



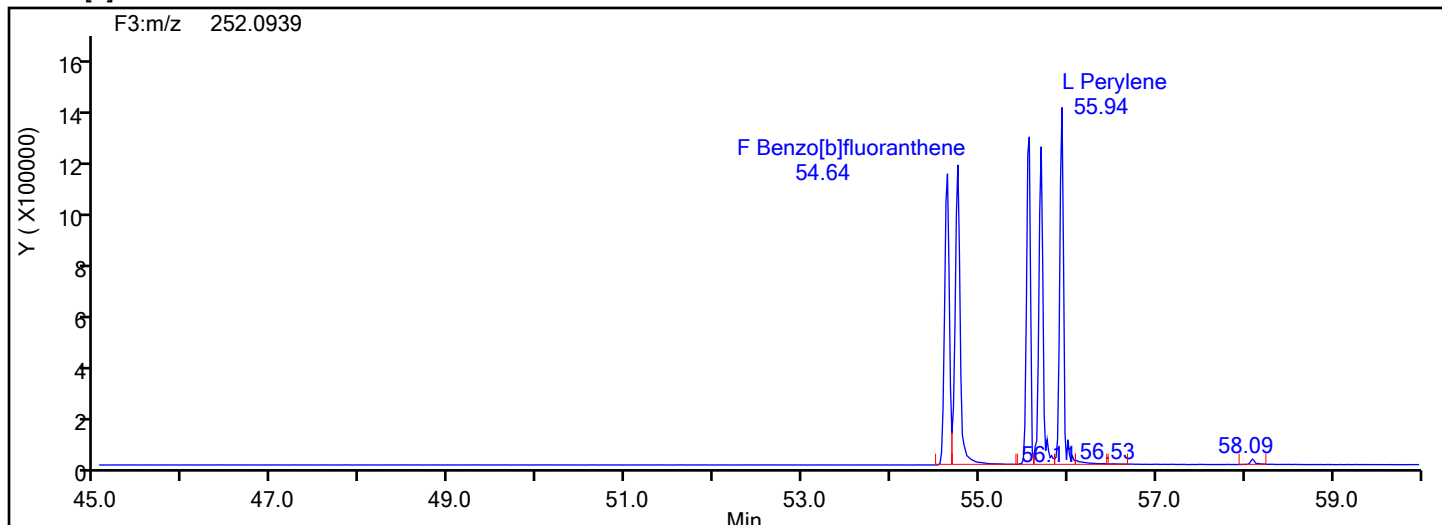
Benzo[a]anthracene Standards



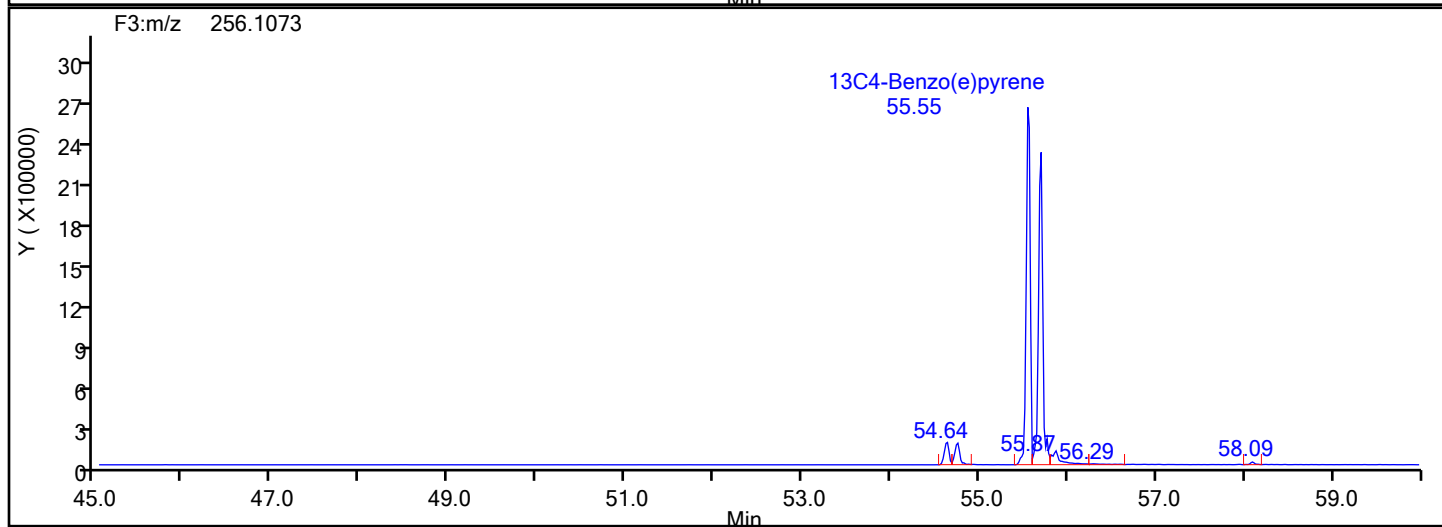
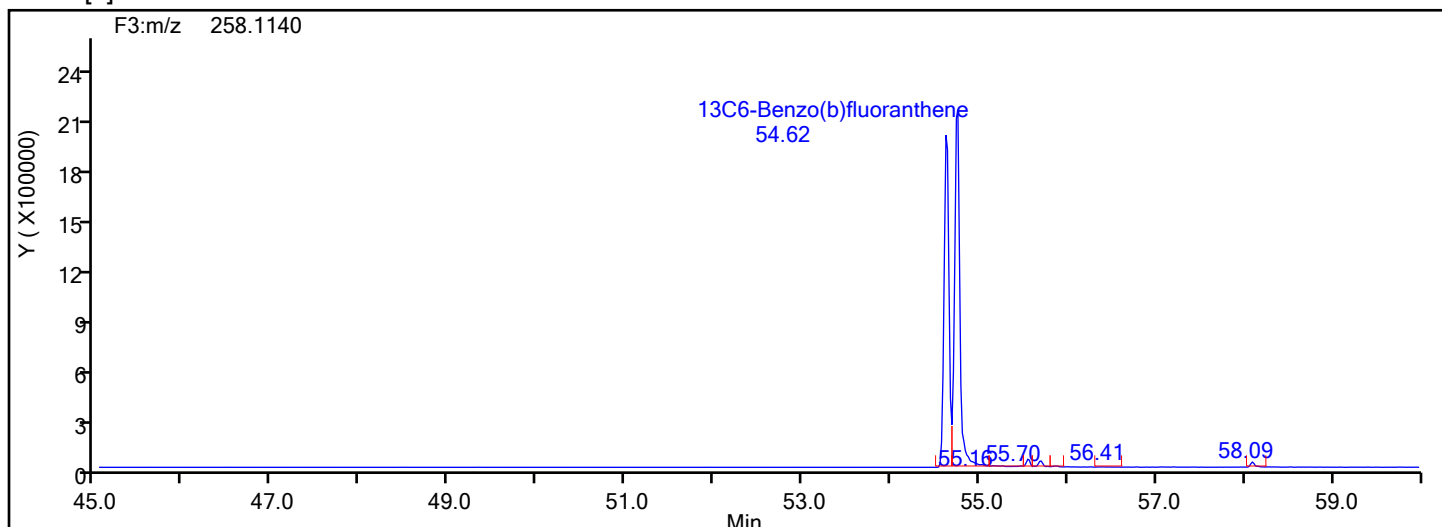
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



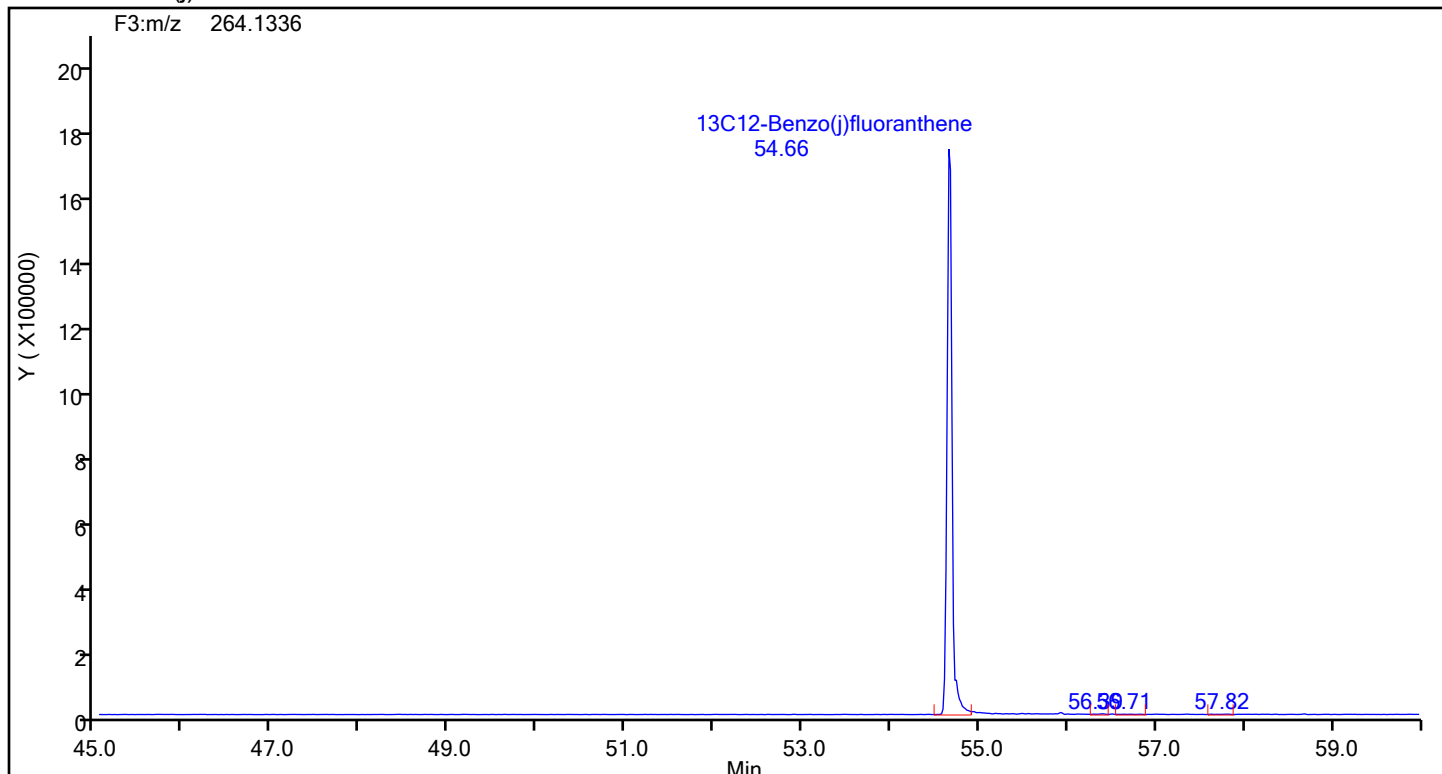
Benzo[b]fluoranthene Standards



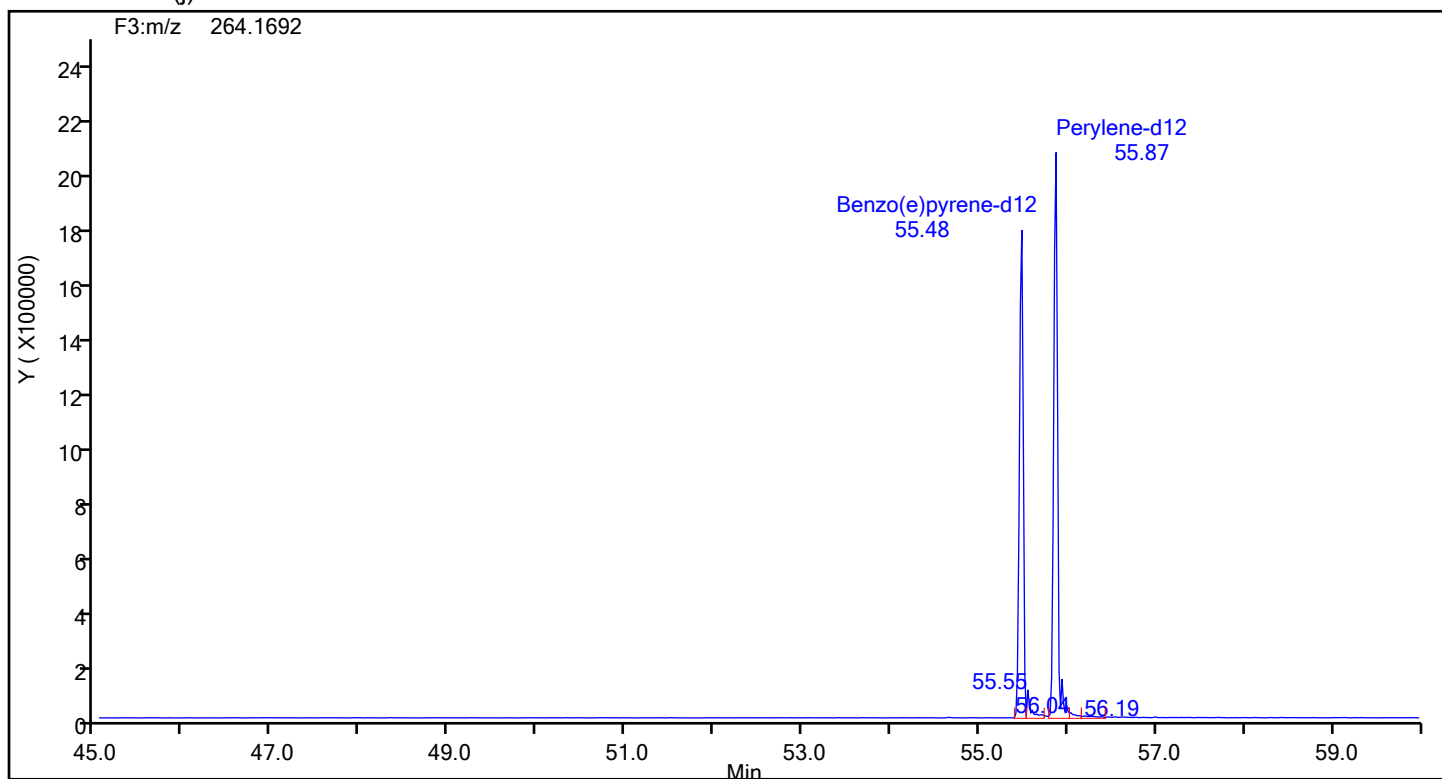
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



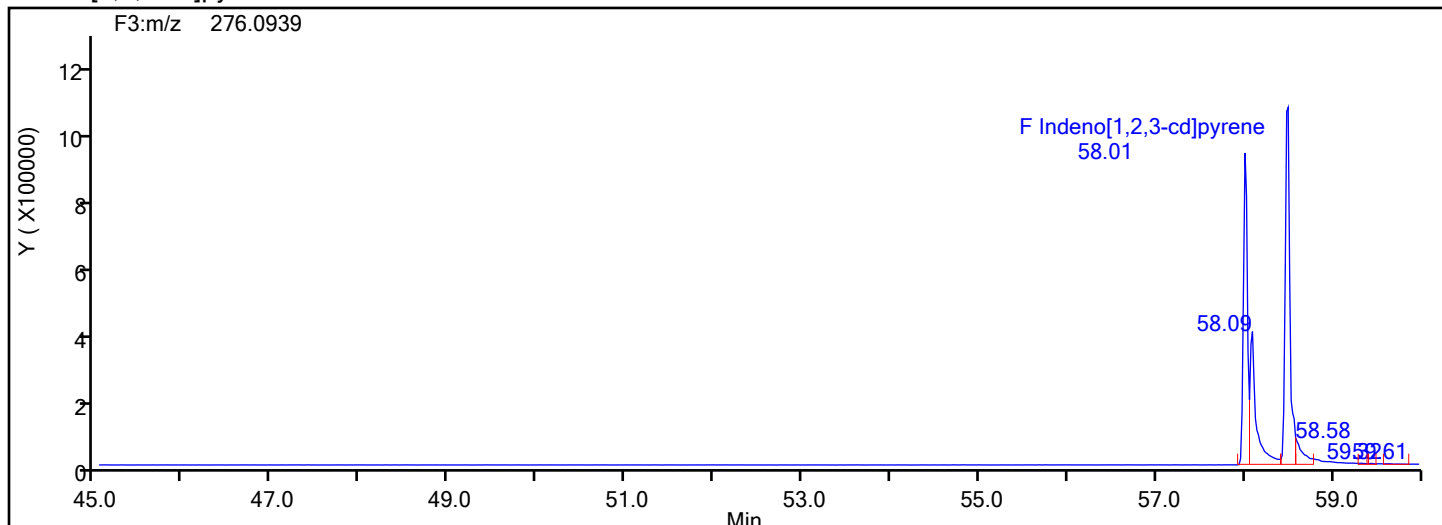
13C12-Benzo(j)fluoranthene Standards



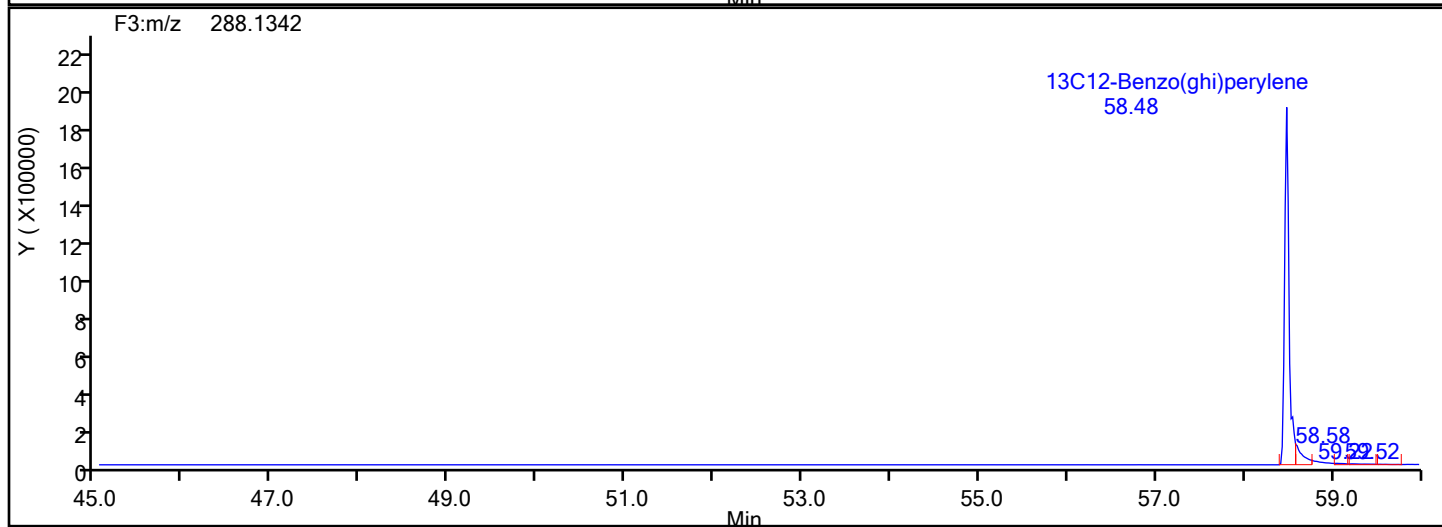
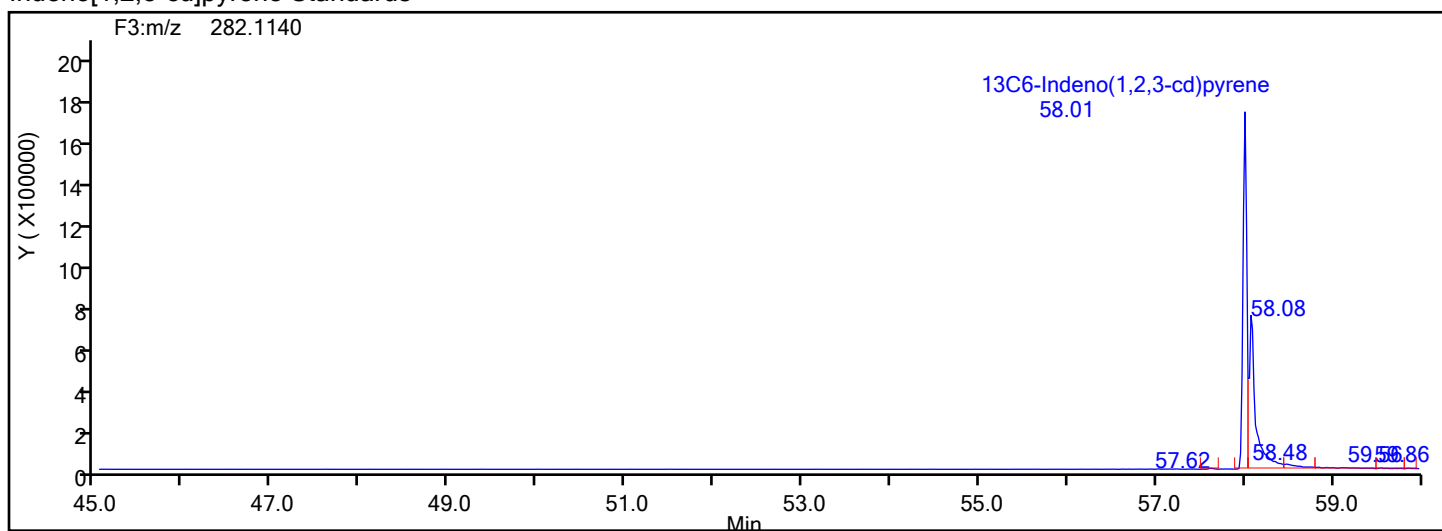
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Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

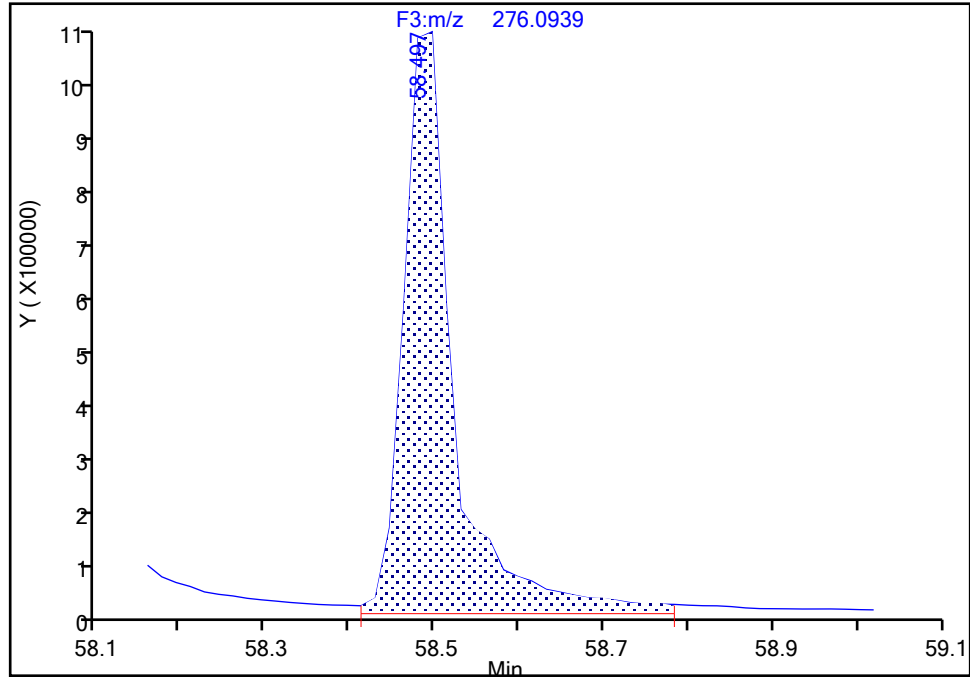
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Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

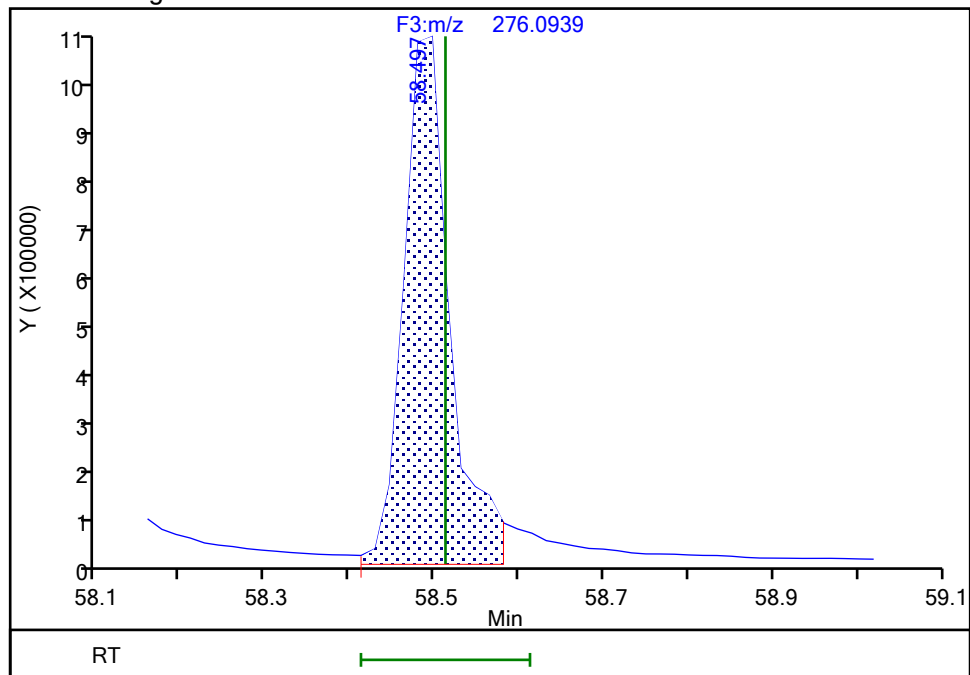
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Amount: 50.251920
Amount Units: pg/ul

Processing Integration Results



RT: 58.50
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Amount: 46.506324
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:45 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

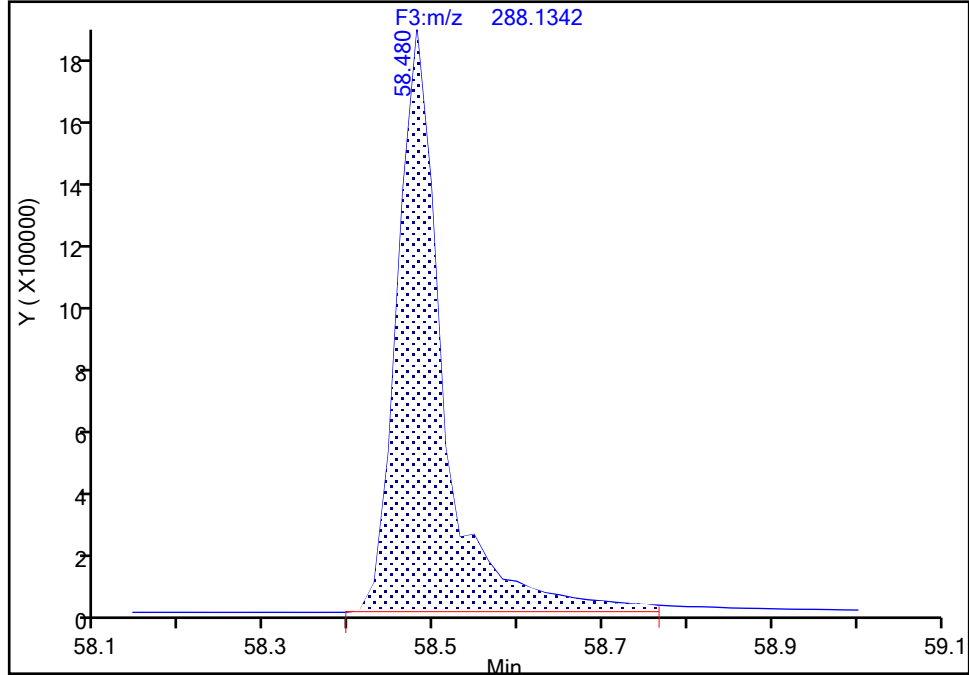
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Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

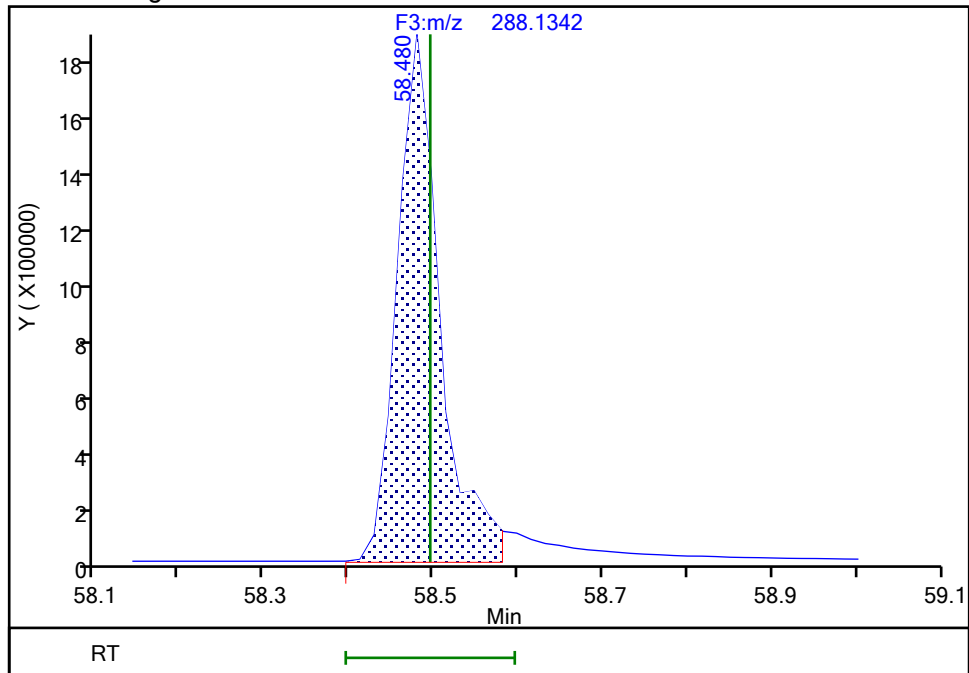
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Processing Integration Results



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Amount Units: pg/ul

Manual Integration Results



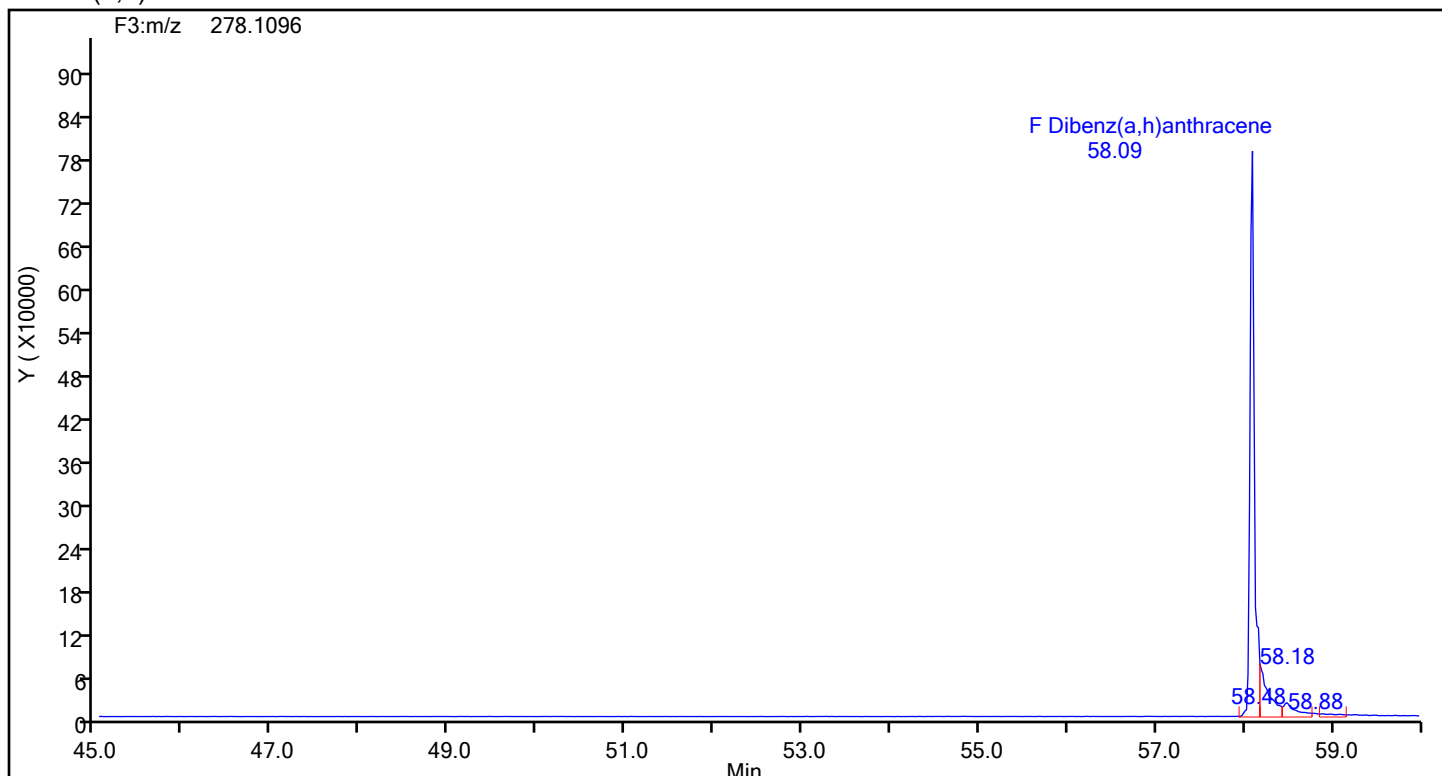
Reviewer: F9EE, 20-Jun-2024 09:36:40 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

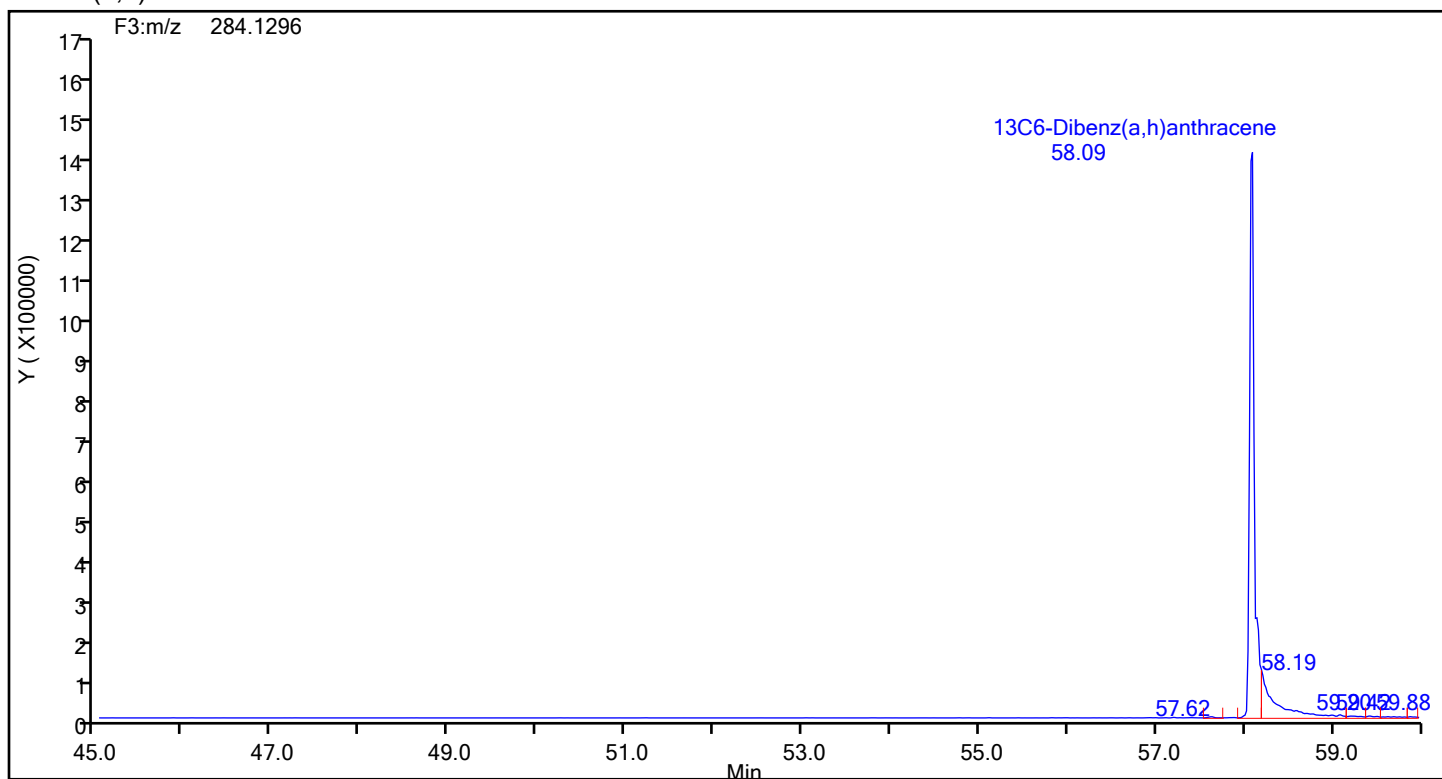
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d
Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

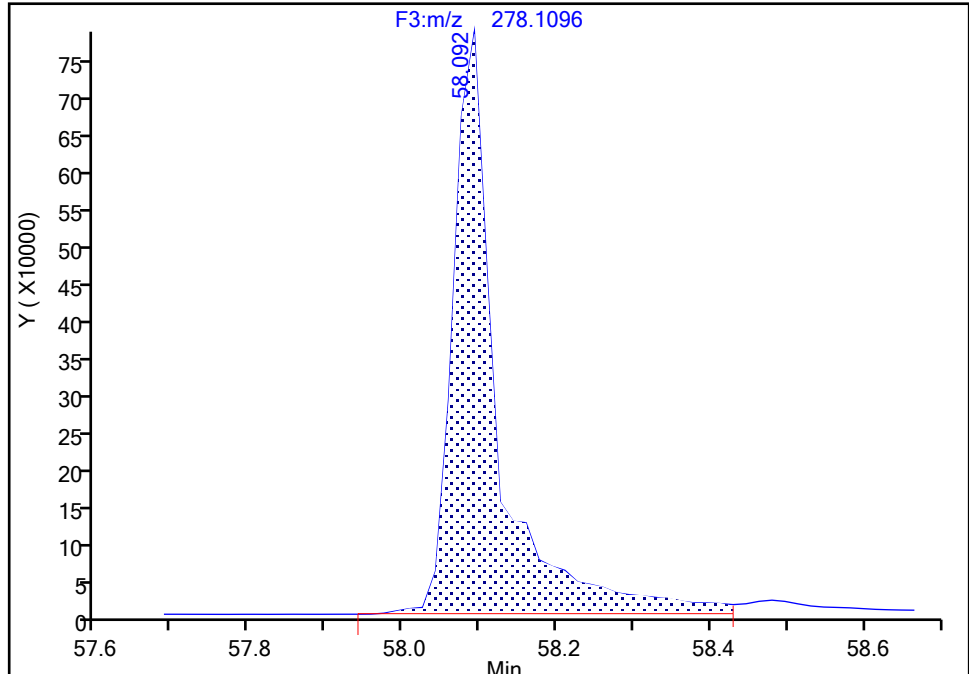
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d
Injection Date: 19-Jun-2024 20:51:00 Instrument ID: D3PAH
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

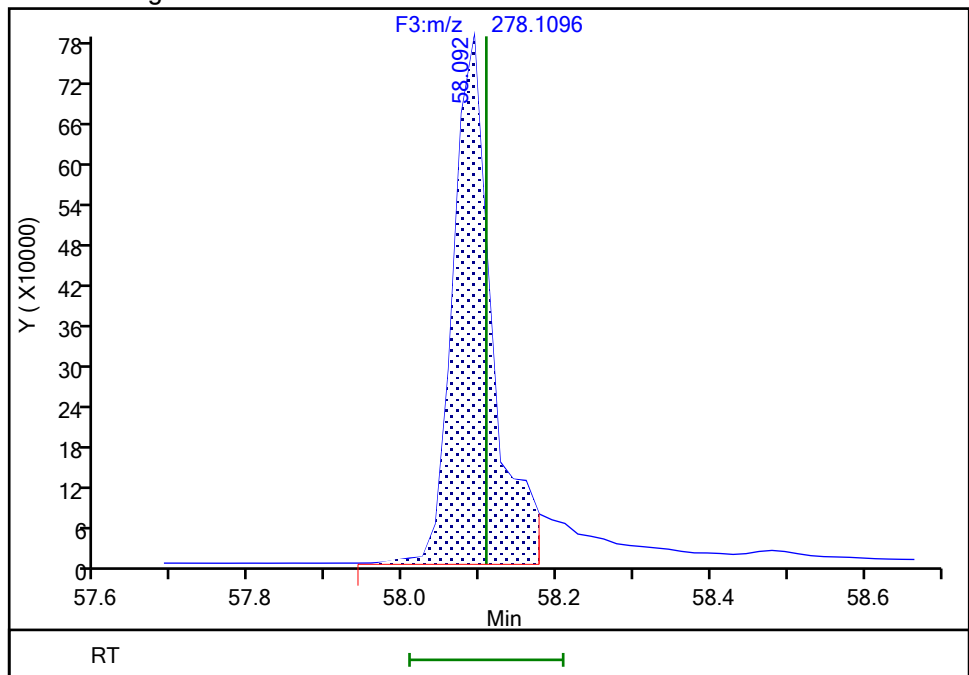
RT: 58.09
Area: 3230801
Amount: 52.313774
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
Area: 2789079
Amount: 45.677161
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:32 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

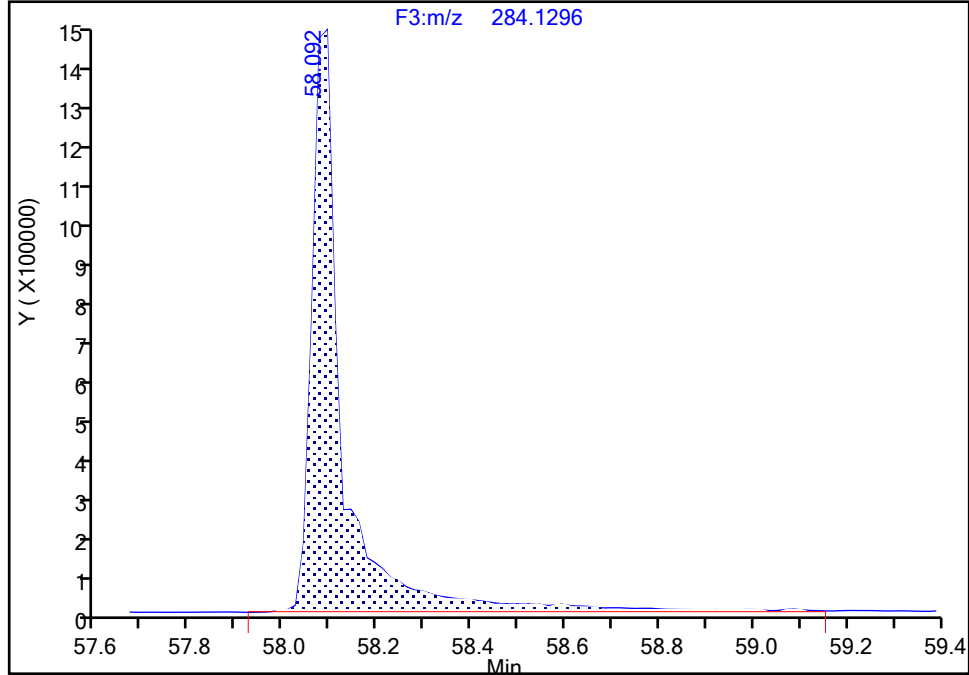
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d
Injection Date: 19-Jun-2024 20:51:00 Instrument ID: D3PAH
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

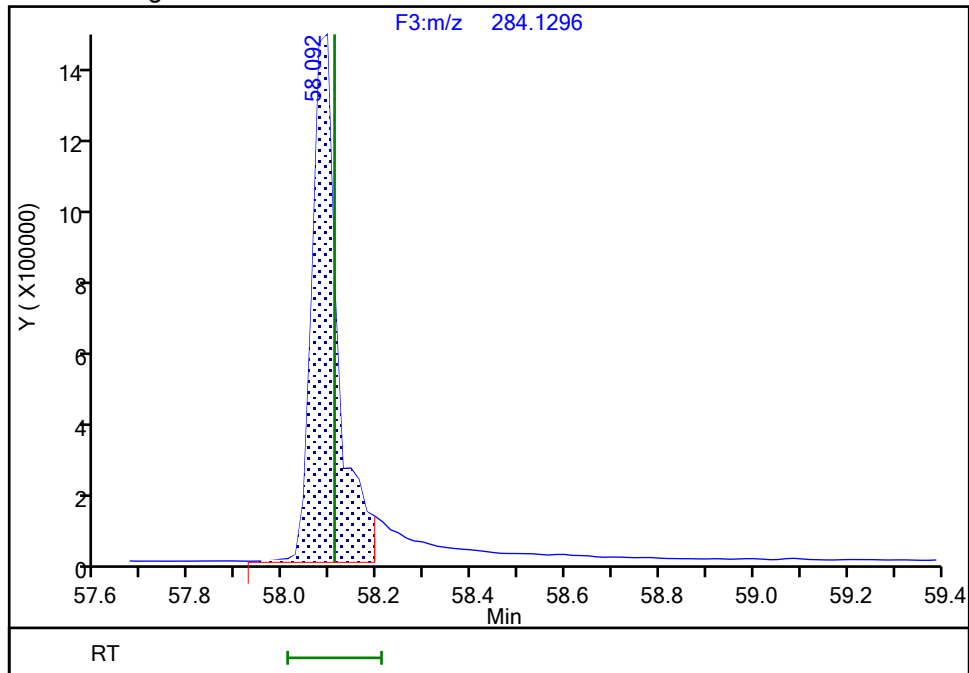
RT: 58.09
Area: 6571225
Amount: 107.3286
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
Area: 5397040
Amount: 96.16507
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:25 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
 Lims ID: IC L6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 19-Jun-2024 21:56:00 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-006
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 20-Jun-2024 09:51:50 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:37:45

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	10869499		3.3746	87.3	87.3	0.005990	0.005990	87.34	
Naphthalene	11:33	11077976		1.2893	79.1	79.1	0.0246	0.0246	98.81	
D 13C6-2-Methylnaphthalene	13:52	5726757		1.6031	96.9	96.9	0.000714	0.000714	96.86	
2-Methylnaphthalene	13:52	5812992		1.2786	79.4	79.4	0.0188	0.0188	99.24	
D 13C6-Acenaphthylene	16:44	6099396		1.6520	100.1	100.1	0.000554	0.000554	100	
Acenaphthylene	16:45	6459116		2.3661	75.8	75.8	0.0194	0.0194	94.79	
* Acenaphthene-d10	17:19	3688074		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	3599722		0.9792	99.7	99.7	0.001168	0.001168	99.68	
Acenaphthene	17:27	3643698		1.2697	79.7	79.7	0.0244	0.0244	99.65	
D 13C6-Fluorene	19:44	3234715		0.8898	98.6	98.6	0.000429	0.000429	98.57	
Fluorene	19:44	3186786		1.2532	78.6	78.6	0.0301	0.0301	98.27	
D 13C6-Phenanthrene	25:07	4194540		0.5724	94.8	94.8	0.004224	0.004224	94.77	
Phenanthrene	25:07	3681835		1.1044	79.5	79.5	0.0392	0.0392	99.35	
\$ Anthracin-d10	25:20	3216411		0.4257	97.7	97.7	0.002434	0.002434	97.72	
D 13C6-Anthracene	25:27	3339808		0.4523	95.5	95.5	0.005346	0.005346	95.49	
Anthracene	25:27	3587223		1.3586	79.1	79.1	0.0421	0.0421	98.82	
D 13C6-Fluoranthrene	33:52	9143194		1.1994	98.6	98.6	0.0194	0.0194	98.60	
Fluoranthrene	33:53	8083123		1.1513	76.8	76.8	0.0136	0.0136	95.98	
* Pyrene-d10	35:25	7731706		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	10295818		1.3512	98.6	98.6	0.0129	0.0129	98.55	
Pyrene	35:34	8469657		1.0652	77.2	77.2	0.0135	0.0135	96.53	
\$ 13C6-Benzo(c)fluorene	39:17	4139575		0.5136	104.2	104.2	0.002960	0.002960	104	
D 13C6-Benzo(a)anthracene	46:06	8168778		1.5189	92.6	92.6	0.0133	0.0133	92.56	
Benzo[a]anthracene	46:07	6207787		0.9739	78.0	78.0	0.0268	0.0268	97.54	
D 13C6-Chrysene	46:23	8805464		1.6287	93.0	93.0	0.0124	0.0124	93.04	
Chrysene	46:23	6667789		0.9815	77.2	77.2	0.0263	0.0263	96.44	
D 13C6-Benzo(b)fluoranthene	54:38	8052237		1.4621	94.8	94.8	0.000932	0.000932	94.78	
Benzo[b]fluoranthene	54:39	6952921		1.1249	76.8	76.8	0.007696	0.007696	95.95	
\$ 13C12-Benzo(j)fluoranthene	54:40	7440700		1.3558	94.4	94.4	0.0141	0.0141	94.45	
D 13C6-Benzo(k)fluoranthene	54:46	9461461		1.7507	93.0	93.0	0.000778	0.000778	93.01	
Benzo[k]fluoranthene	54:46	7954022		1.1271	74.6	74.6	0.007085	0.007085	93.24	
* Benzo(e)pyrene-d12	55:30	5810473		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:34	9036295		1.6368	95.0	95.0	0.0133	0.0133	95.01	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	6804856		1.0013	75.2	75.2	0.006475	0.006475	94.01	
Benzo[a]pyrene	55:43	7072659		1.1130	75.5	75.5	0.006815	0.006815	94.40	
D 13C4-Benzo(a)pyrene	55:43	8413993		1.5508	93.4	93.4	0.0141	0.0141	93.38	
D Perylene-d12	55:53	6805855		1.1917	98.3	98.3	0.0152	0.0152	98.29	
Perylene	55:57	7312149		1.4307	75.1	75.1	0.005707	0.005707	93.87	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	5212706		1.0218	87.8	87.8	0.009707	0.009707	87.79	
Indeno[1,2,3-cd]pyrene	58:01	4742305		1.1249	80.9	80.9	0.007218	0.007218	101	
D 13C6-Dibenz(a,h)anthracene	58:05	5580937		1.0553	91.0	91.0	0.005784	0.005784	91.02	M
Dibenz(a,h)anthracene	58:06	4852505		1.1314	76.9	76.9	0.006054	0.006054	96.06	M
D 13C12-Benzo(ghi)perylene	58:30	7011632		1.2749	94.7	94.7	0.005558	0.005558	94.65	M
Benzo[g,h,i]perylene	58:30	6540833		1.2838	72.7	72.7	0.005631	0.005631	90.83	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS5_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
 Lims ID: IC L6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 19-Jun-2024 21:56:00 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-006
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
 Limit Group: HR - HRPAAH ICAL
 Last Update: 20-Jun-2024 09:51:50 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:37:45

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:33	-1	0.666	10869499	3625973	106	265	34207		
Naphthalene											
128.0626	11:33	11:34	-1	1.001	11077976	3692357	461	1152	8009		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	-1	0.800	5726757	2589286	6	15	431548		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.000	5812992	2698054	249	622	10836		
13C6-Acenaphthylene											
158.0828	16:44	16:45	-1	0.966	6099396	2156421	5	12	431284		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	6459116	2248213	232	580	9691		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3688074	1311036	1	2	1311036		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	3599722	1263507	6	15	210585		
Acenaphthene											
154.0783	17:27	17:27	-1	1.001	3643698	1278130	157	392	8141		
13C6-Fluorene											
172.0984	19:44	19:45	-1	1.139	3234715	932326	2	5	466163		
Fluorene											
166.0783	19:44	19:45	-1	1.001	3186786	933950	141	352	6624		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	4194540	970097	14	35	69293		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	3681835	848869	168	420	5053		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	3216411	735648	6	15	122608		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	3339808	735076	14	35	52505		
Anthracene											
178.0783	25:27	25:28	-1	1.000	3587223	812516	168	420	4836		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	9143194	1757365	135	337	13018		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	8083123	1556738	110	275	14152		
Pyrene-d10											
212.1404	35:25	35:27	-2		7731706	1447359	45	112	32164		
13C3-Pyrene											
205.0883	35:34	35:35	-2	1.004	10295818	1911929	101	252	18930		
Pyrene											
202.0783	35:34	35:35	-1	1.000	8469657	1575706	110	275	14325		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:18	-1	0.708	4139575	754812	9	22	83868		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:07	-2	1.301	8168778	1438631	149	372	9655		
Benzo[a]anthracene											
228.0939	46:07	46:07	-1	1.000	6207787	1112833	150	375	7419		
13C6-Chrysene											
234.1140	46:23	46:24	-1	1.310	8805464	1454322	149	372	9761		
Chrysene											
228.0939	46:23	46:25	-2	1.000	6667789	1145408	150	375	7636		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	8052237	2102138	10	25	210214		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	6952921	1836809	73	182	25162		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	7440700	1837451	140	350	13125		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	9461461	2279319	10	25	227932		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	7954022	1948646	73	182	26694		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	-1		5810473	1834824	133	332	13796		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:35	-2	1.001	9036295	2807461	160	400	17547		
Benzo[e]pyrene											
252.0939	55:35	55:35	-1	1.000	6804856	2213216	73	182	30318		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	7072659	2089671	73	182	28626		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	8413993	2399289	160	400	14996		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	6805855	2229131	133	332	16760		
Perylene											
252.0939	55:57	55:58	-1	1.001	7312149	2342635	73	182	32091		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	5212706	1785870	73	182	24464		
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	4742305	1516411	58	145	26145		
13C6-Dibenz(a,h)anthracene											
284.1296	58:05	58:07	-2	1.047	5580937	1489164	45	112	33093		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	4852505	1323479	41	102	32280		M
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	-1	1.054	7011632	2005951	52	130	38576		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-2	1.000	6540833	1743896	58	145	30067		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS5_00002

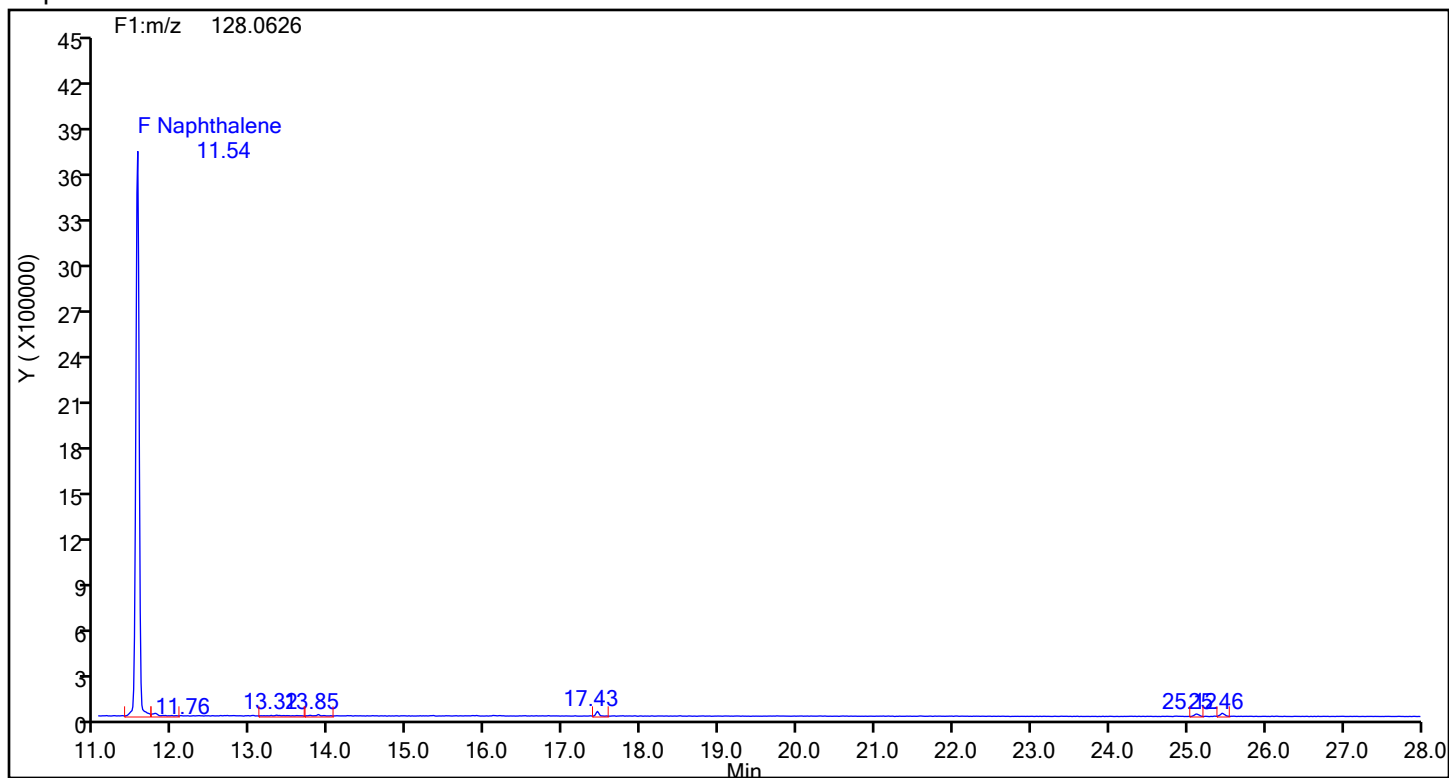
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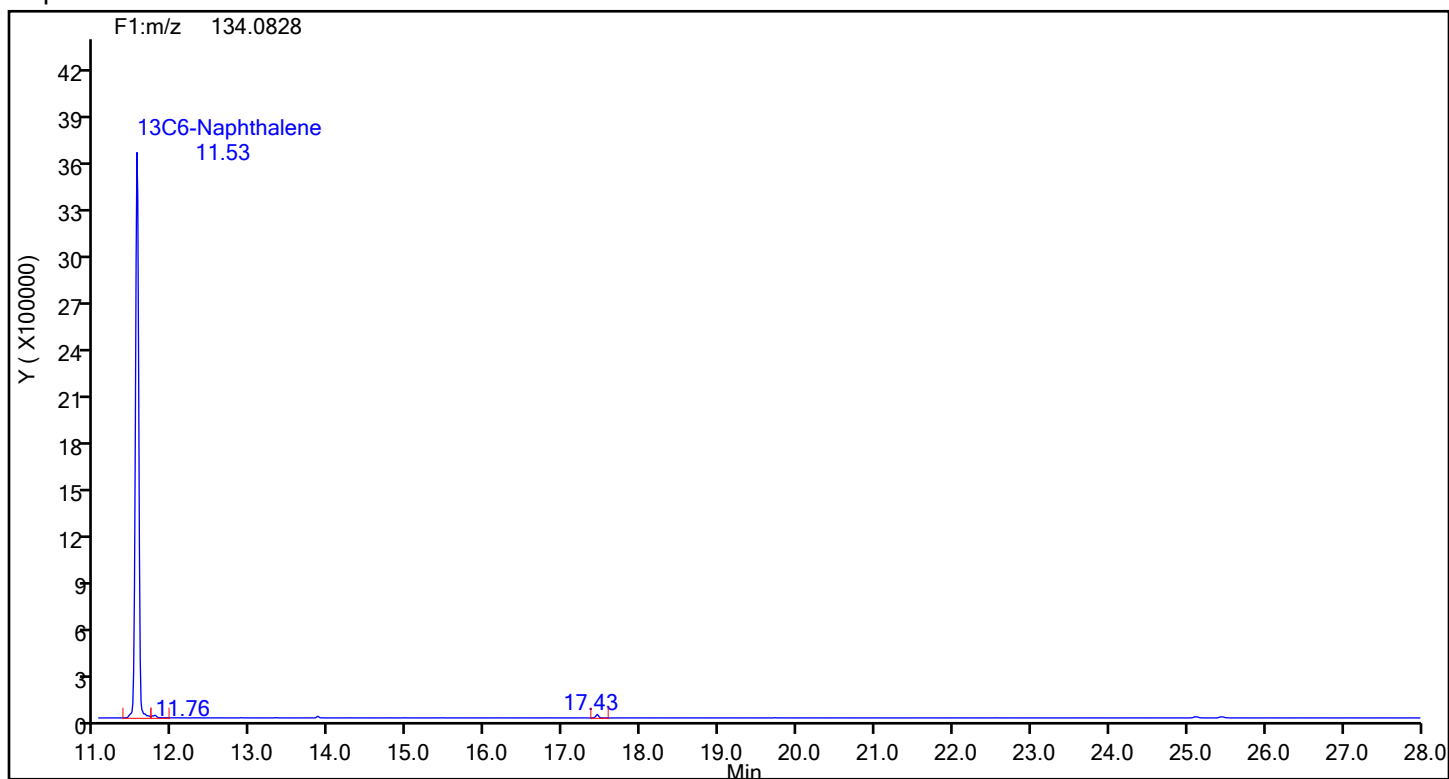
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



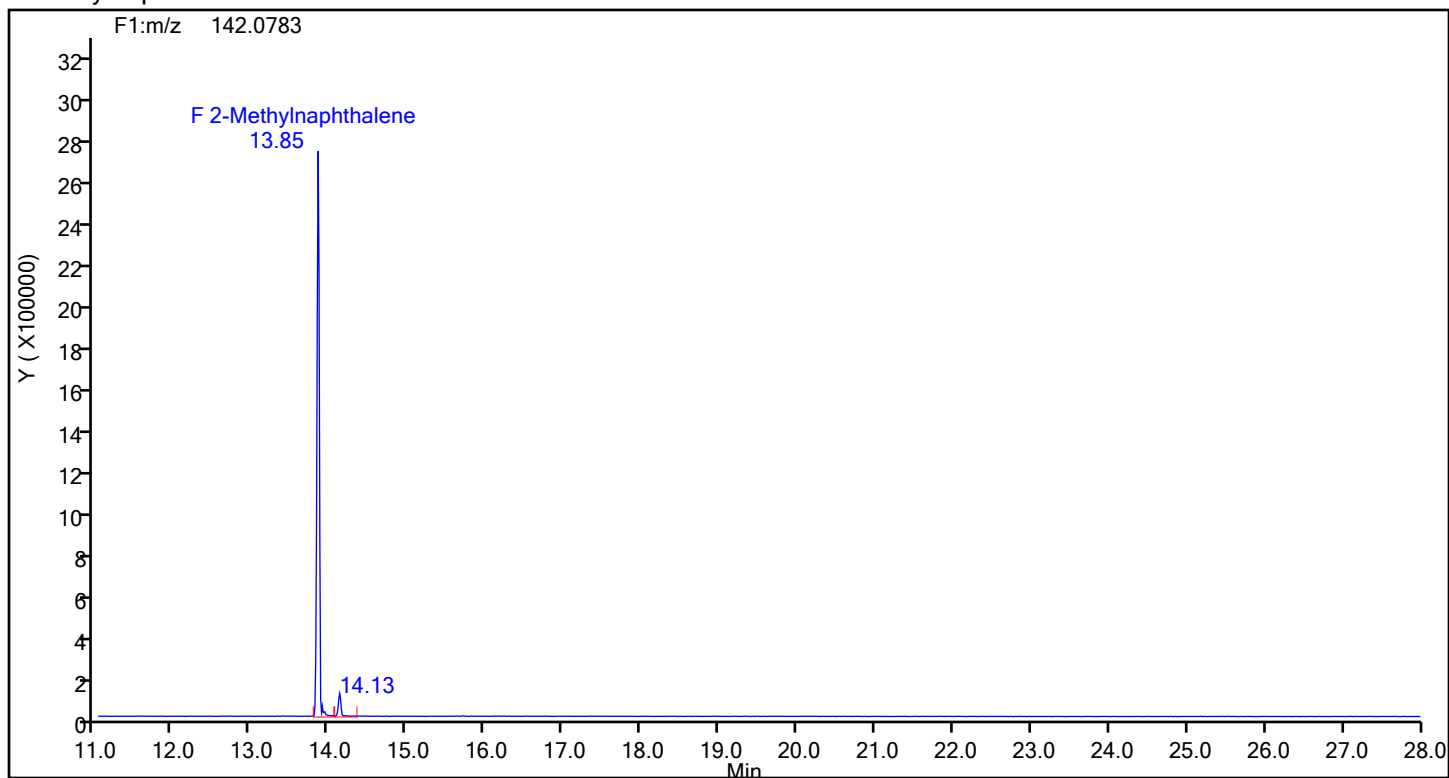
Naphthalene Standards



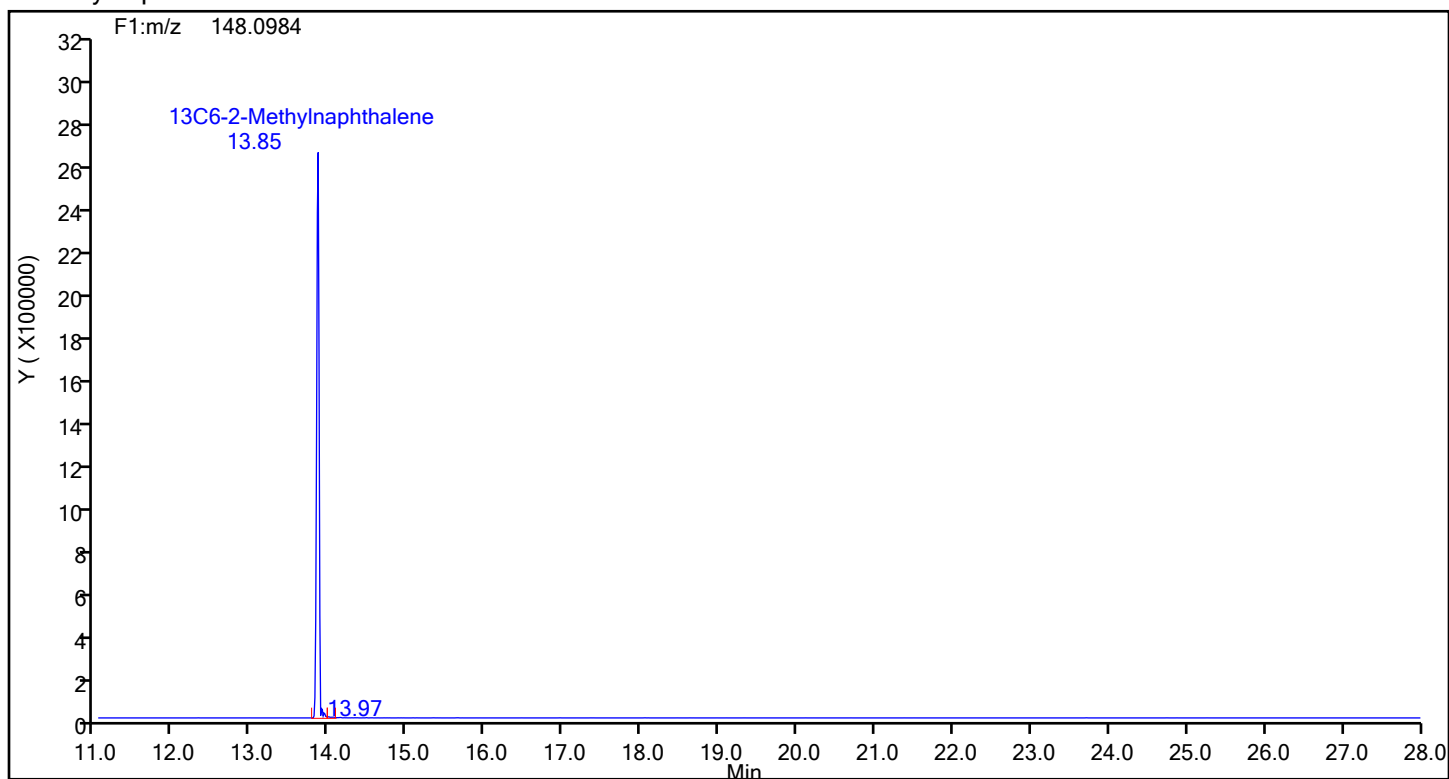
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



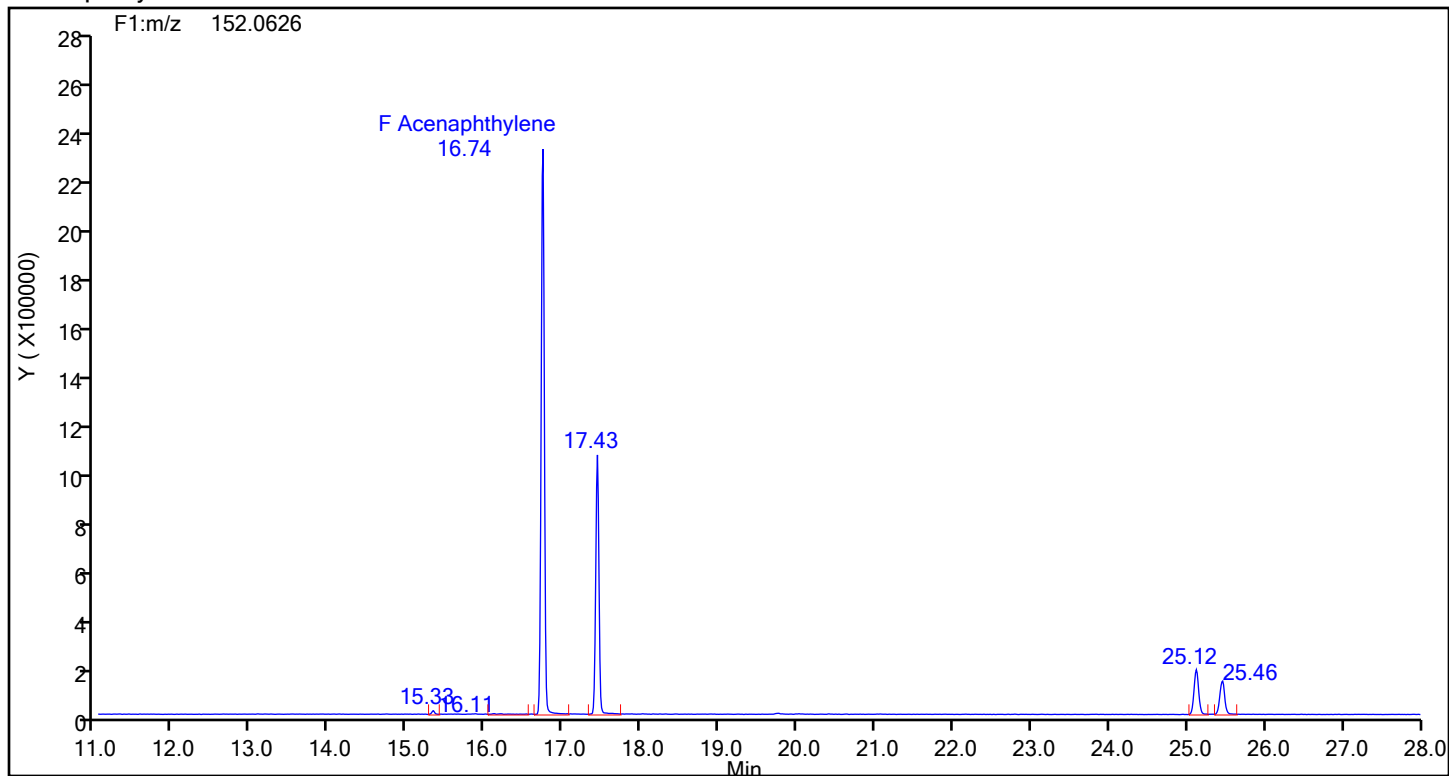
2-Methylnaphthalene Standards



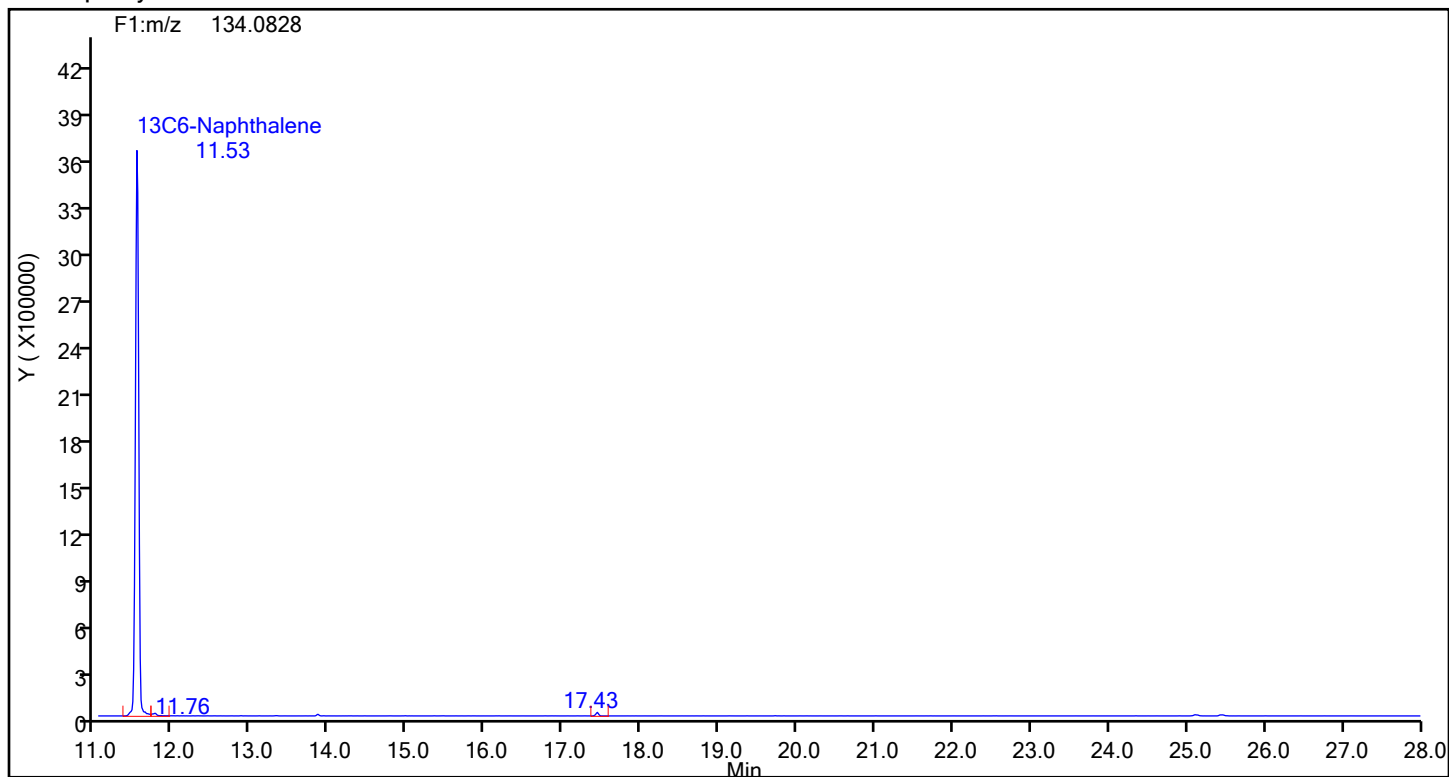
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene

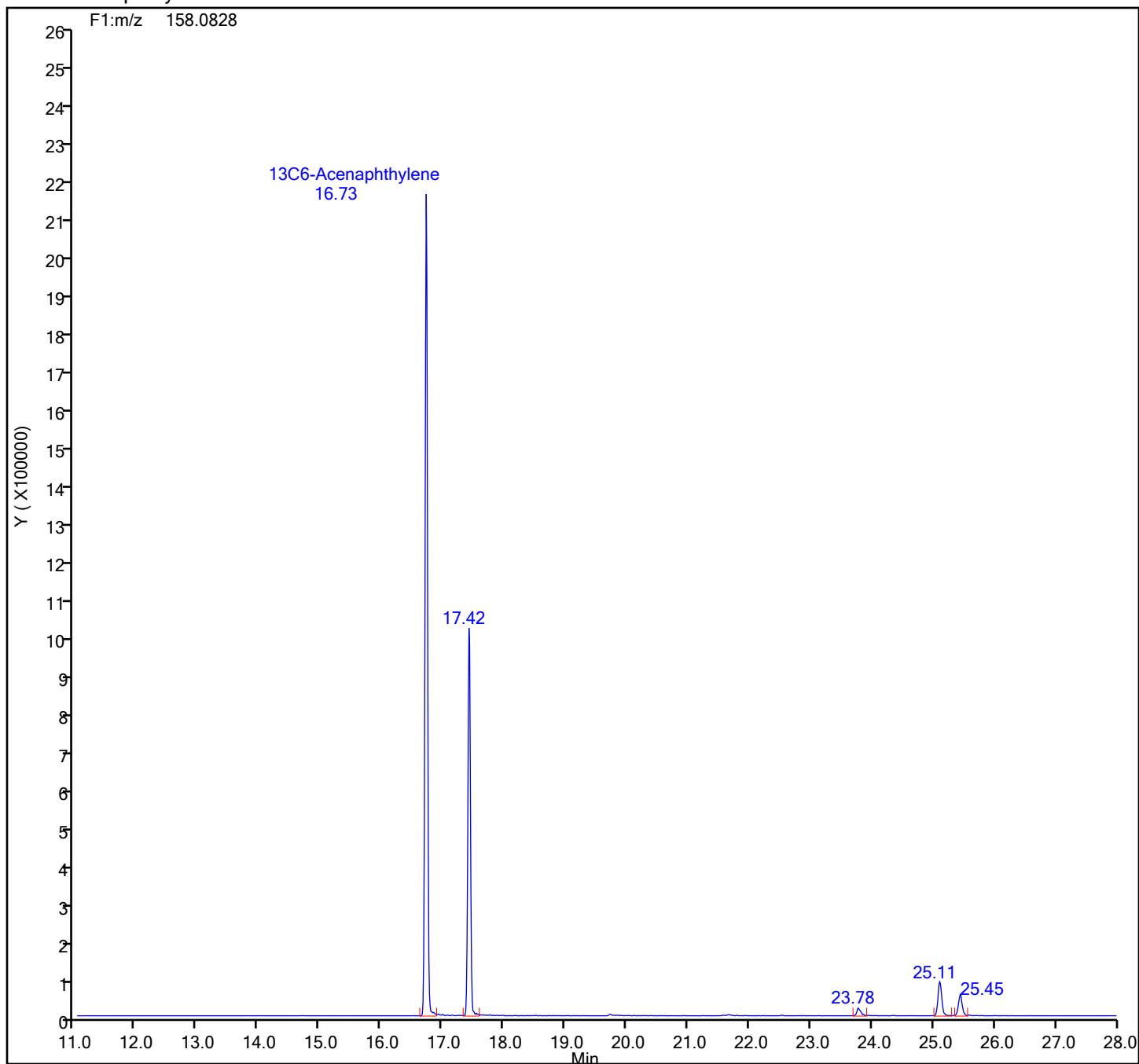


Acenaphthylene Standards



Eurofins Knoxville

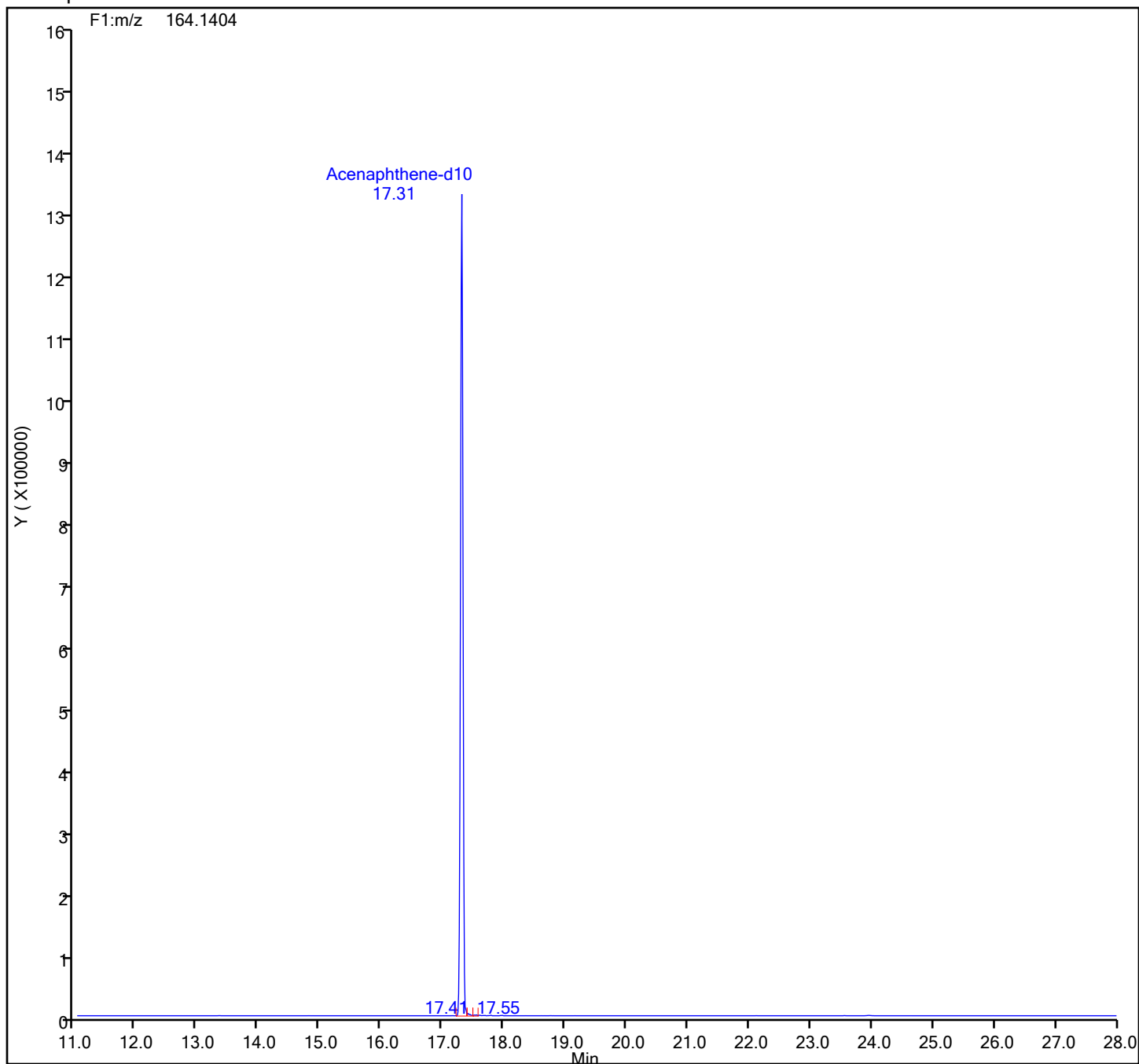
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Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C6-Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

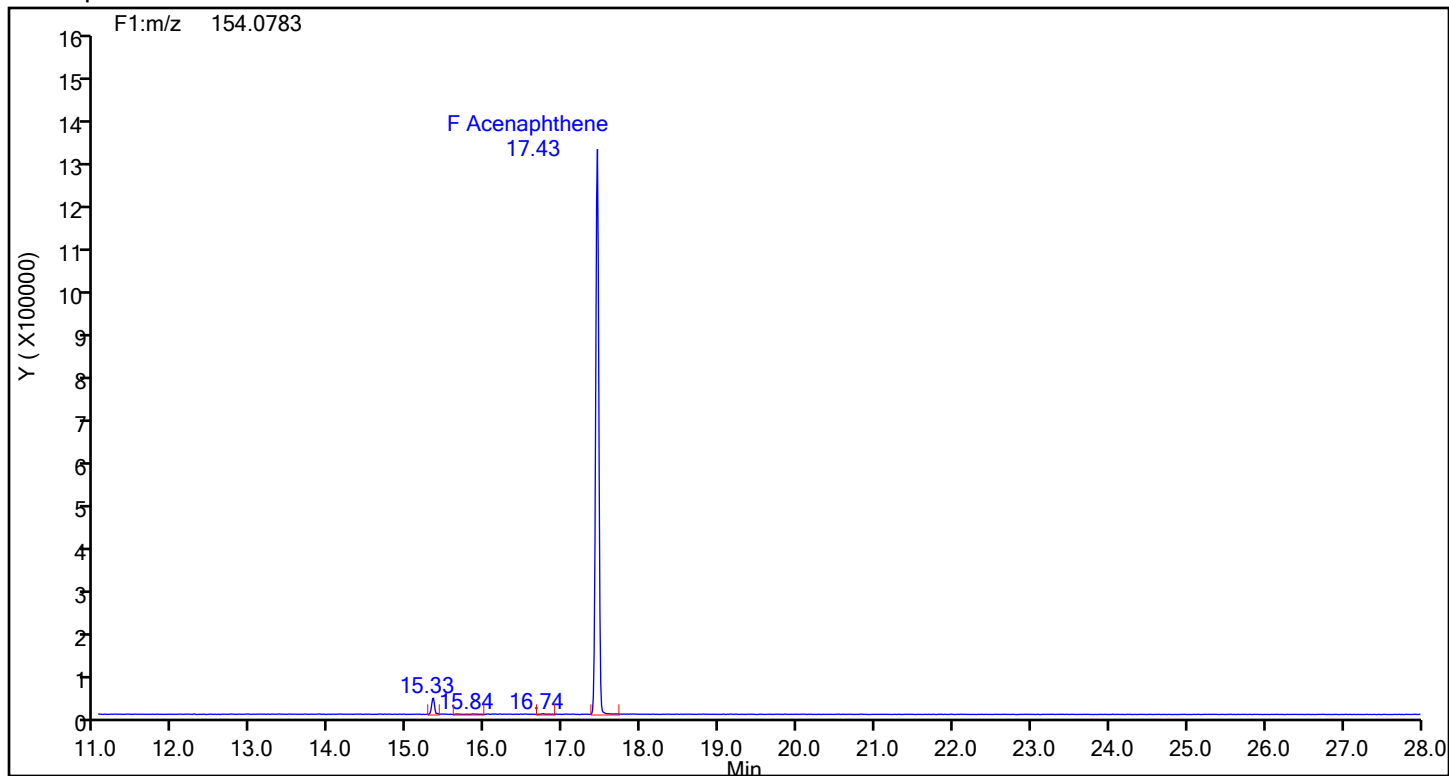
Acenaphthene-d10 Standards



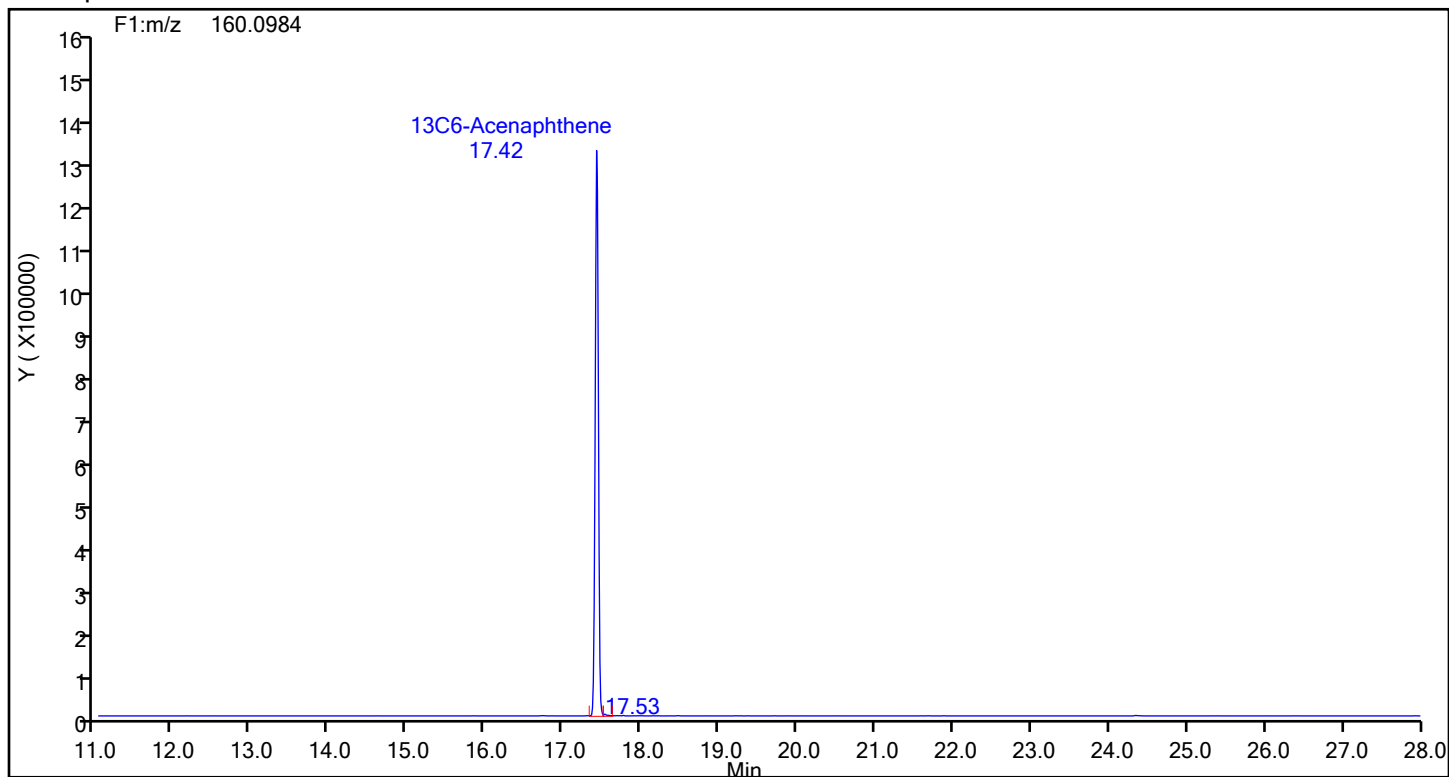
Eurofins Knoxville

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Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



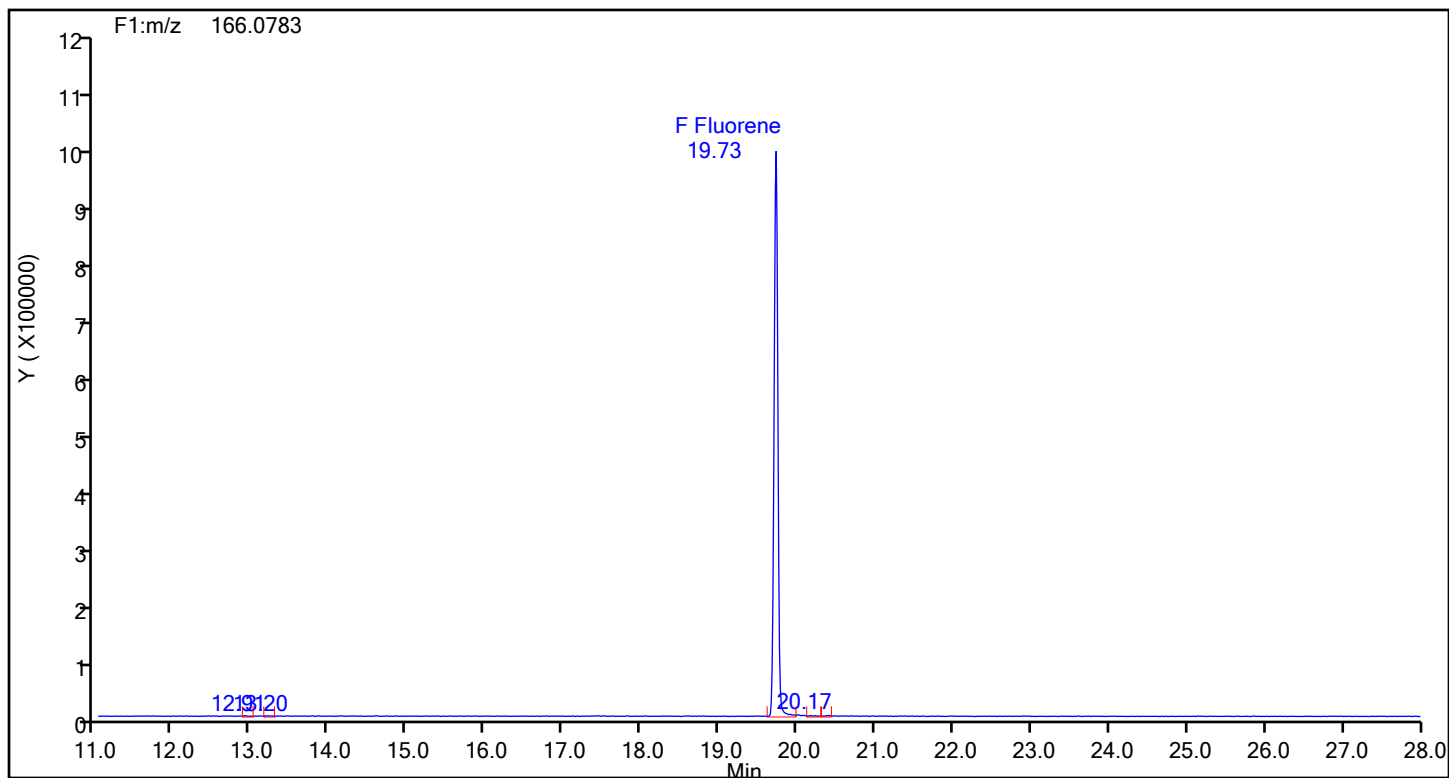
Acenaphthene Standards



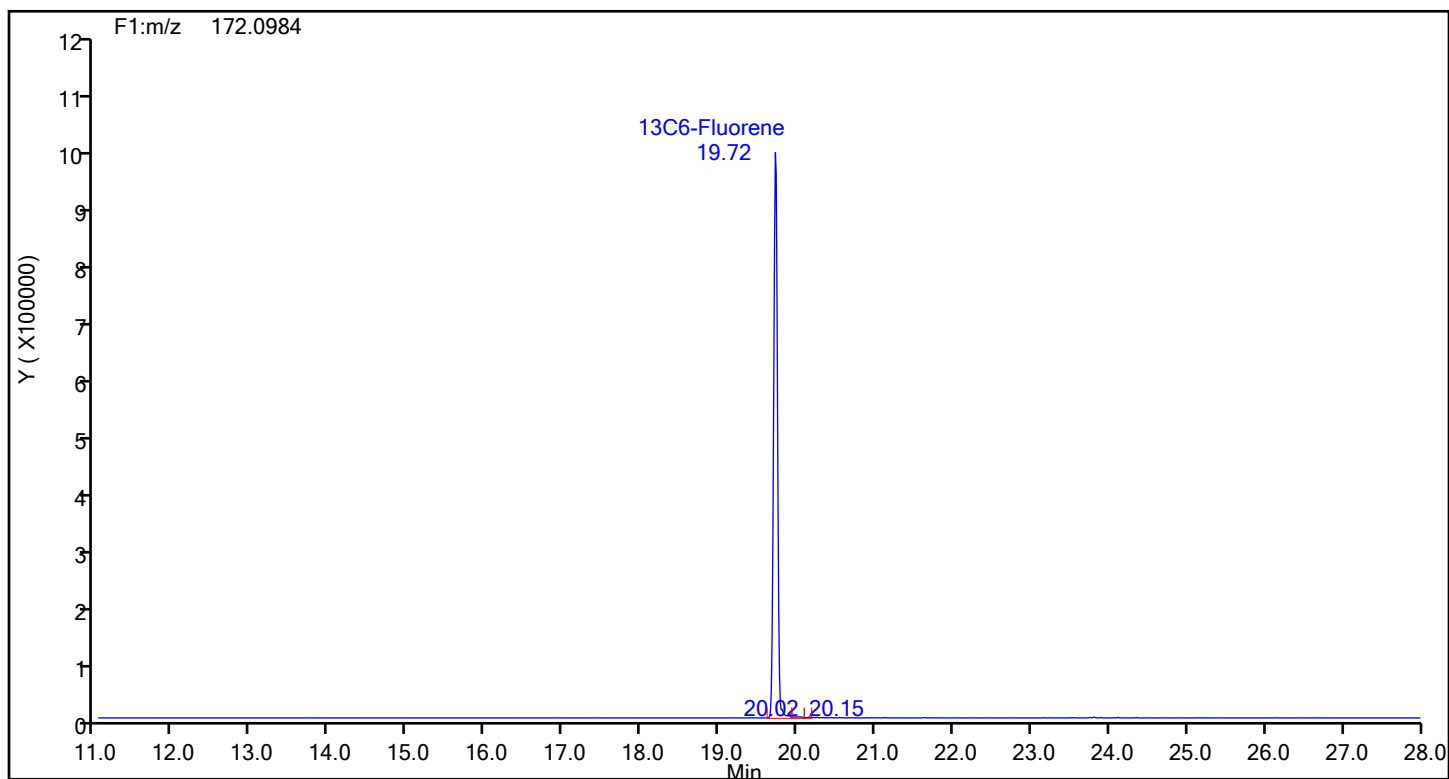
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

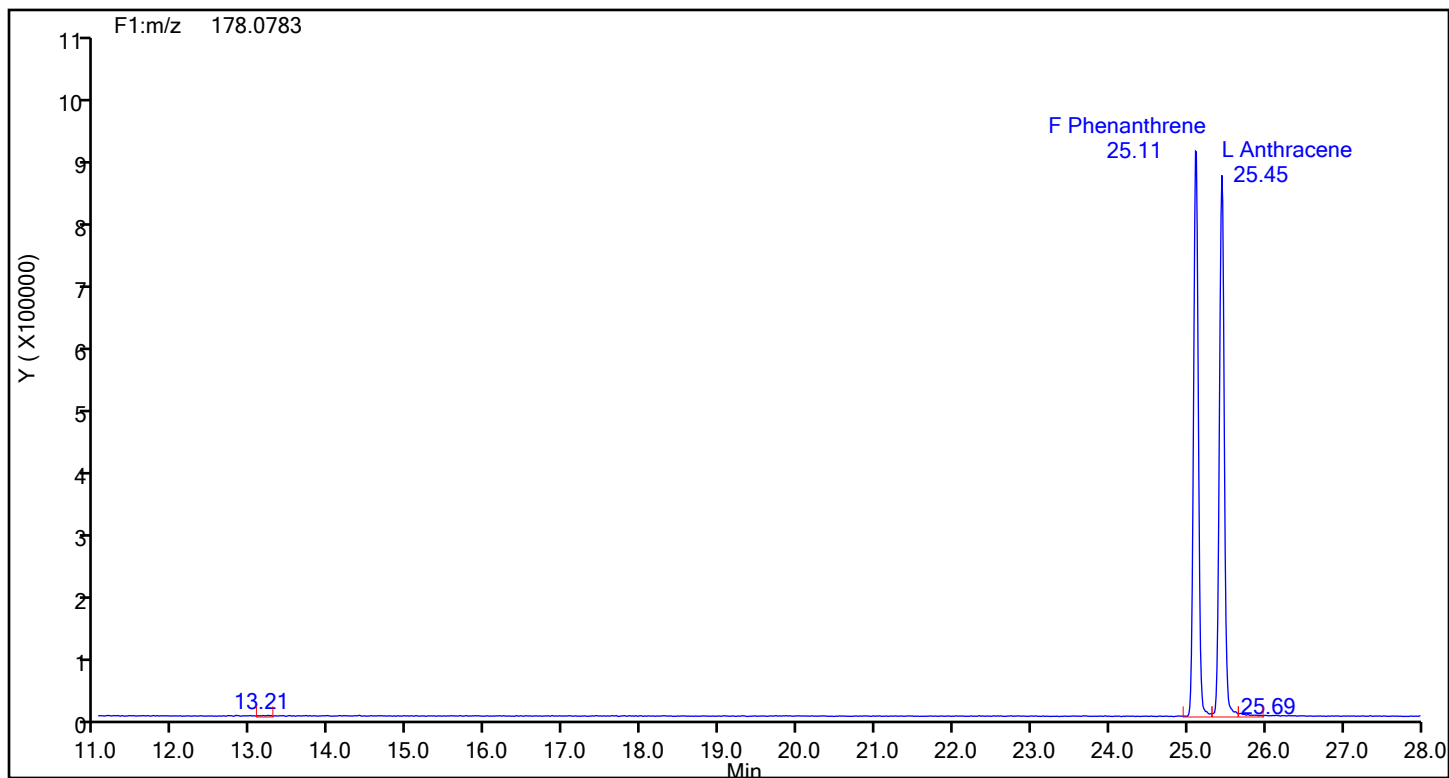


Fluorene Standards

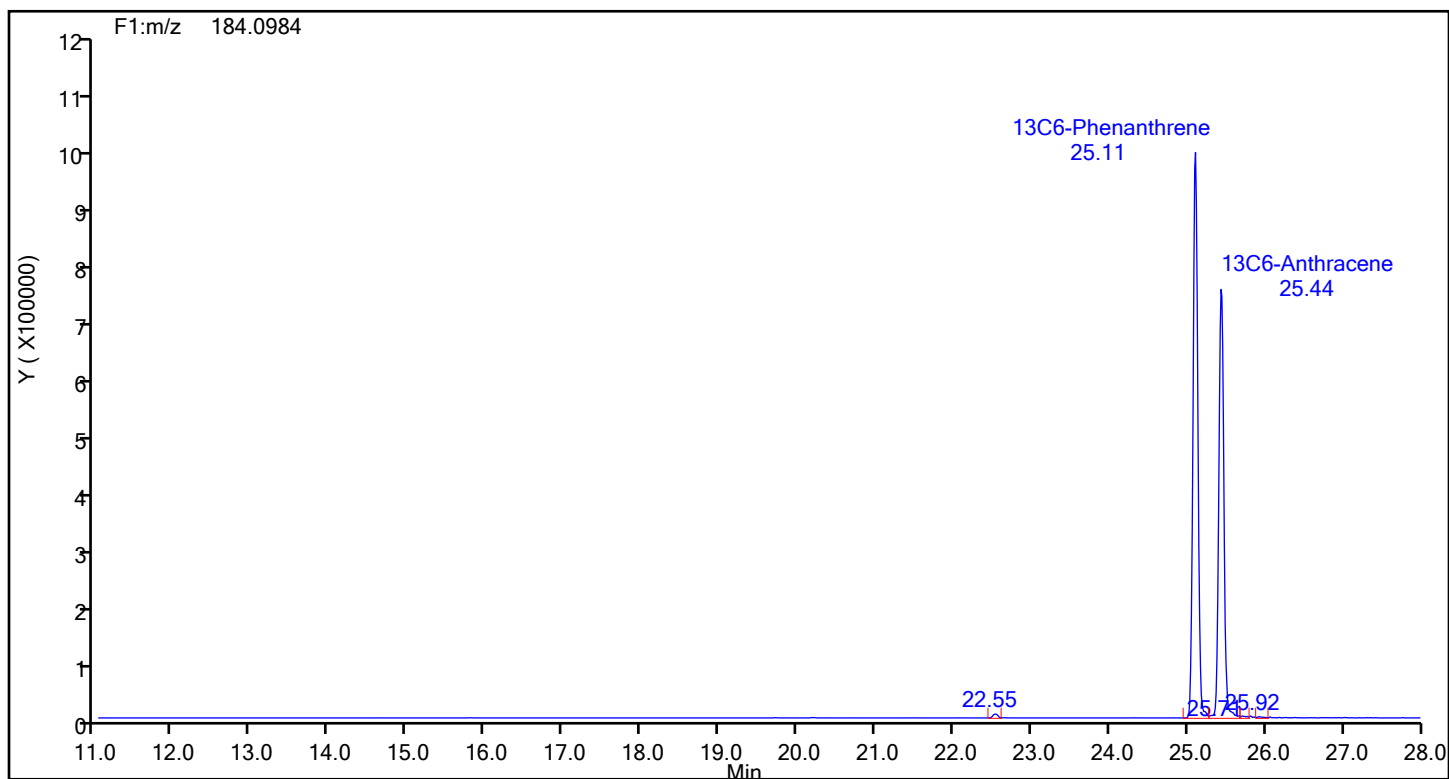


Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene

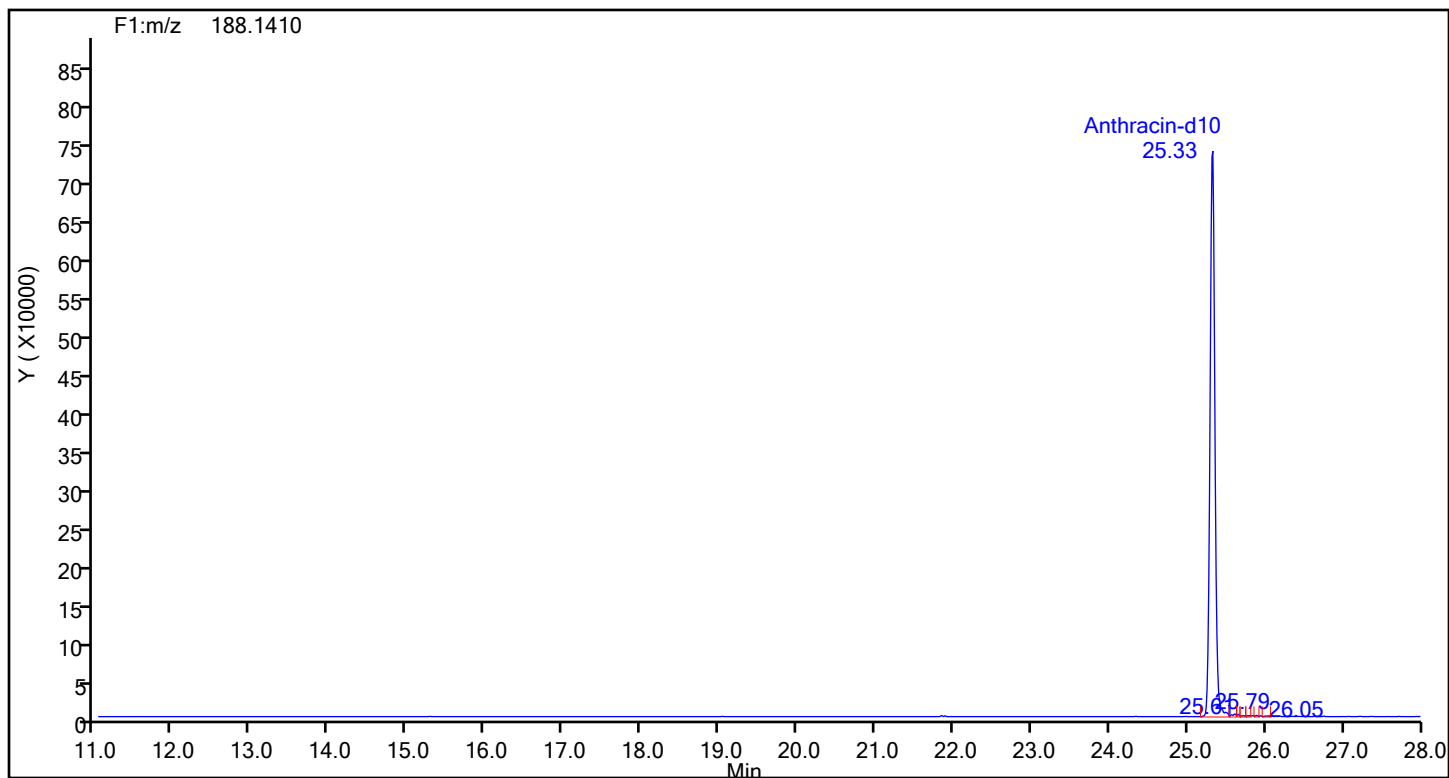


Phenanthrene Standards

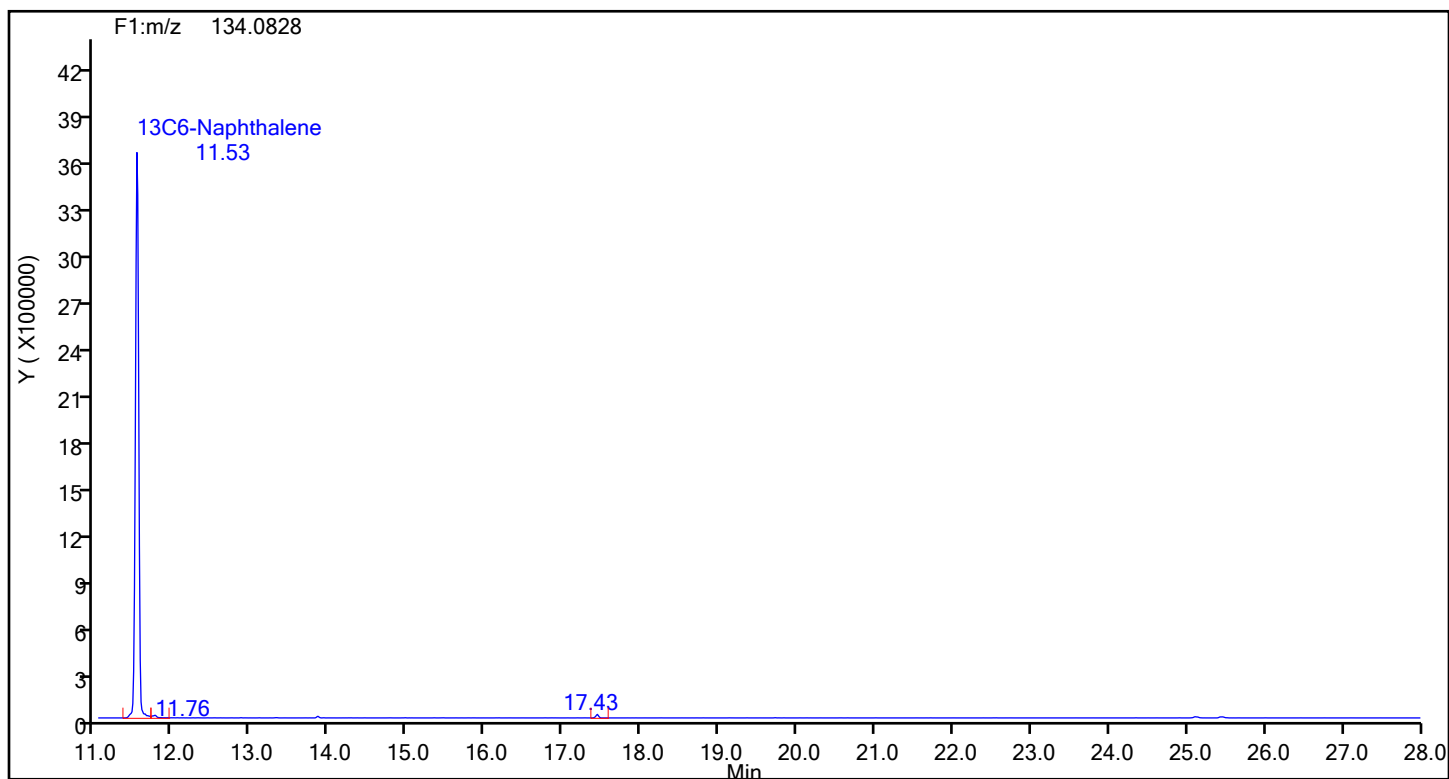


Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

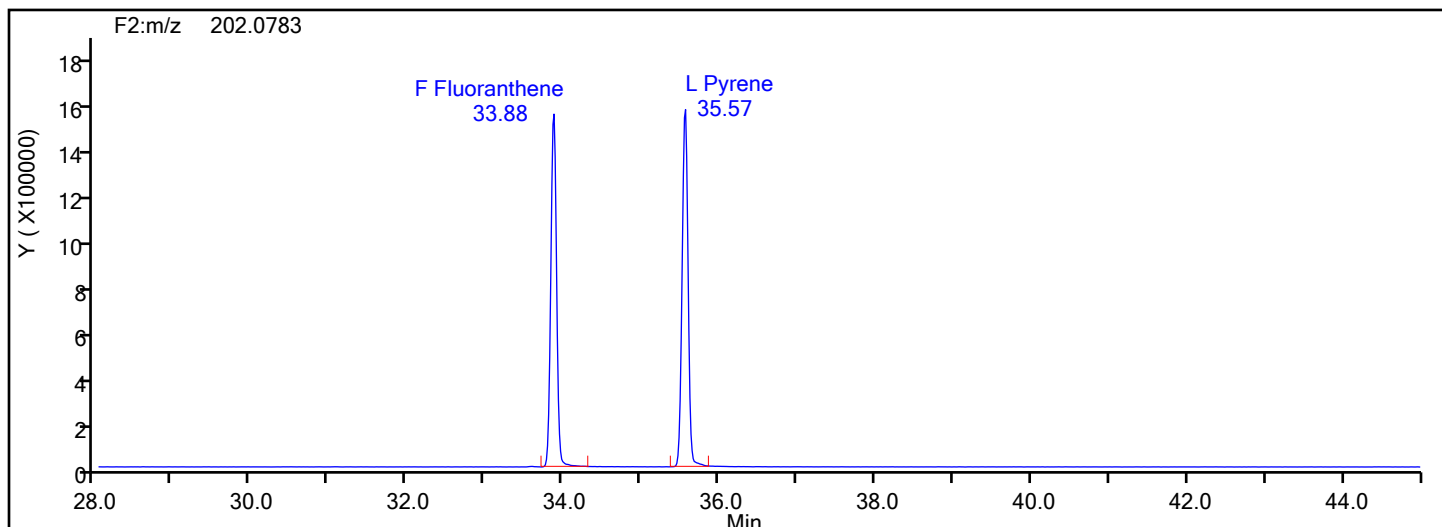


Anthracin-d10 Standards

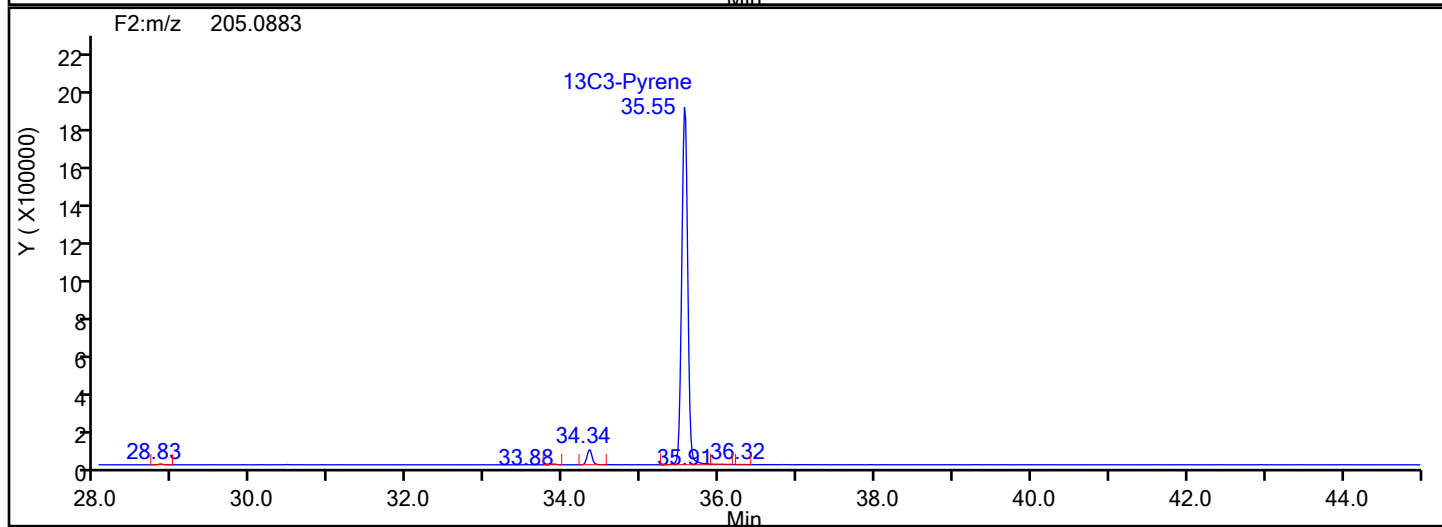
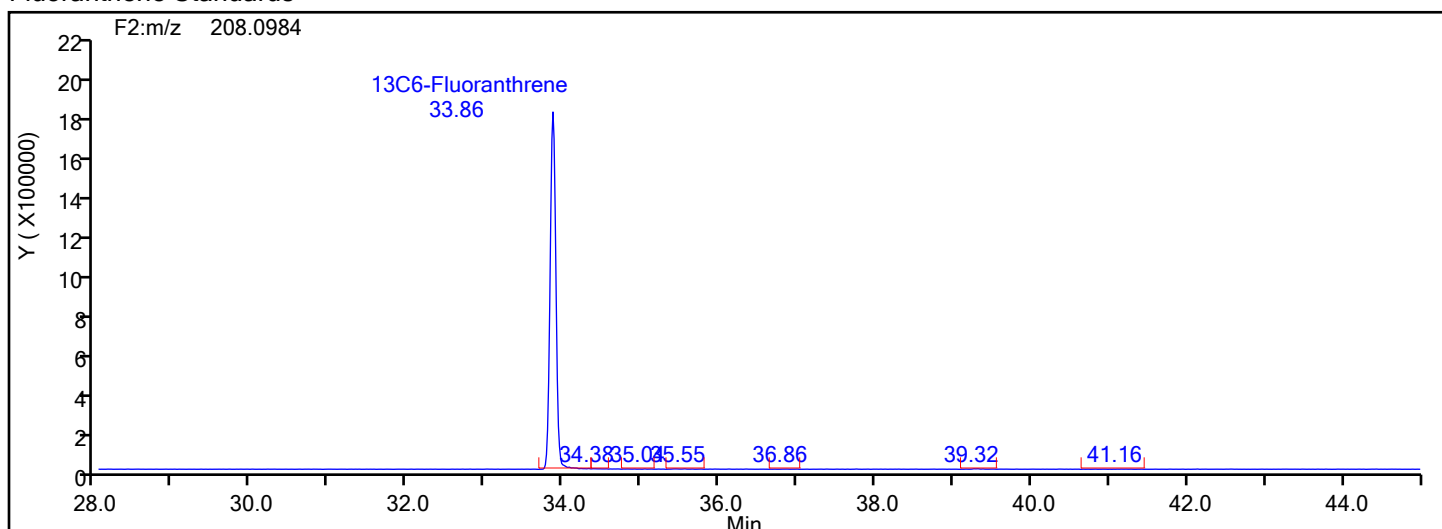


Eurofins Knoxville

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Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



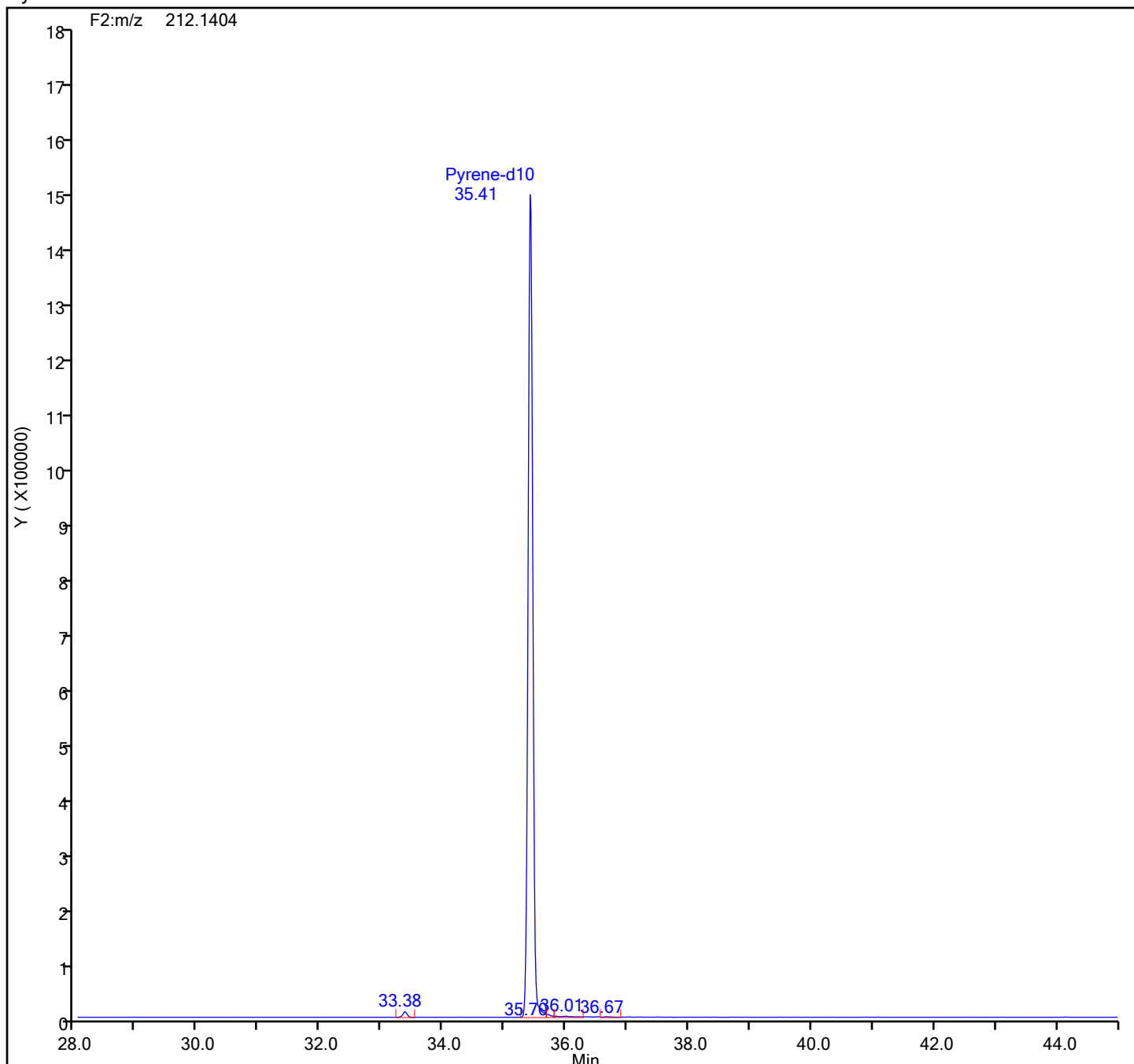
Fluoranthene Standards



Eurofins Knoxville

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Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

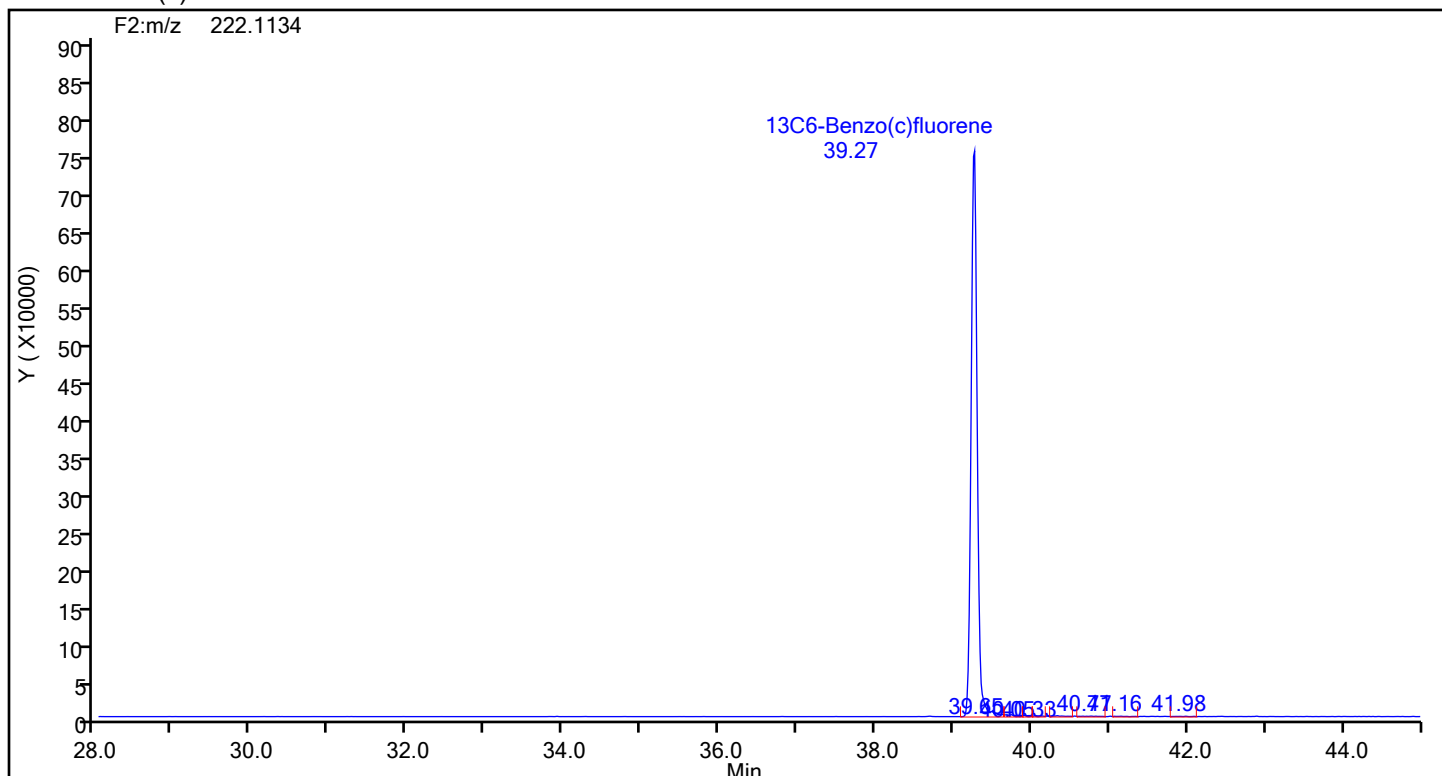
Pyrene-d10 Standards



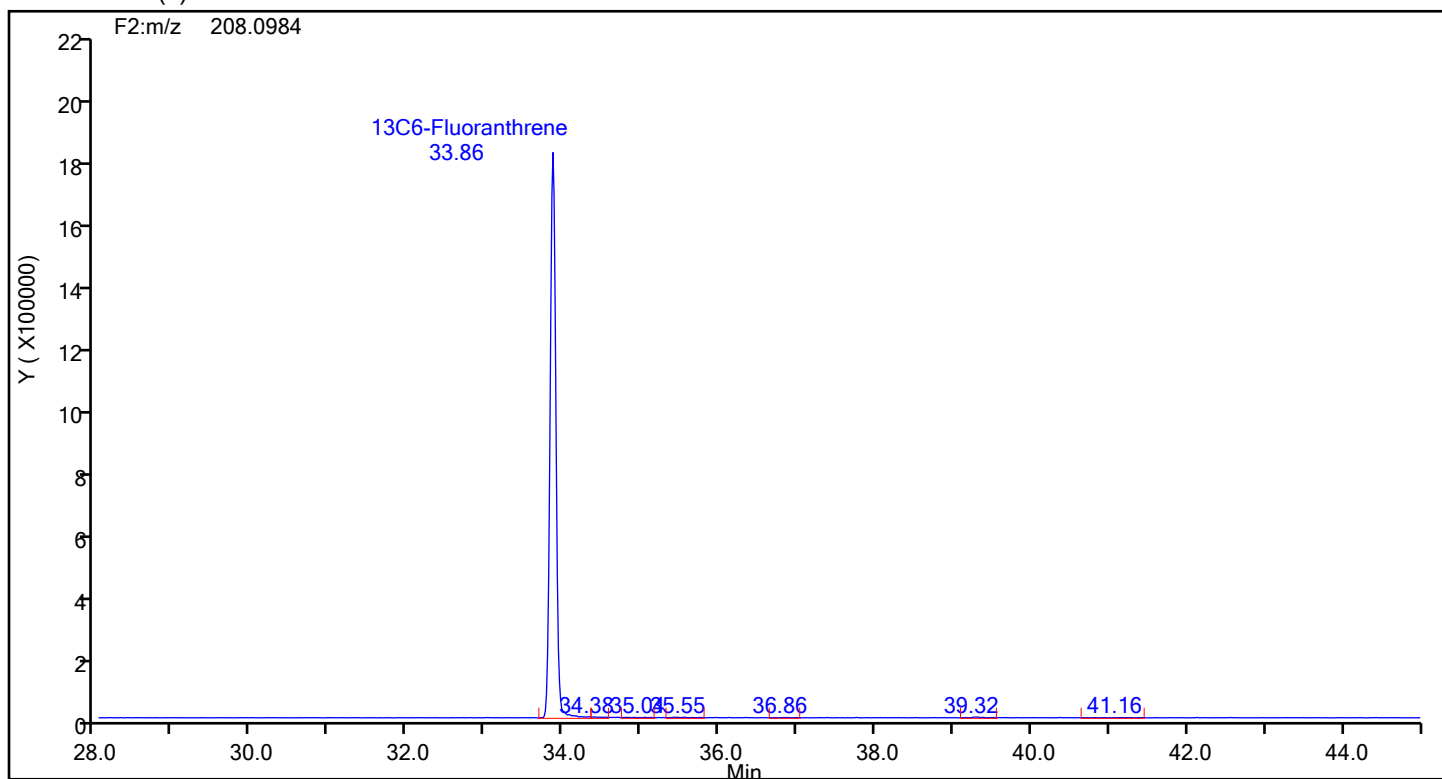
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



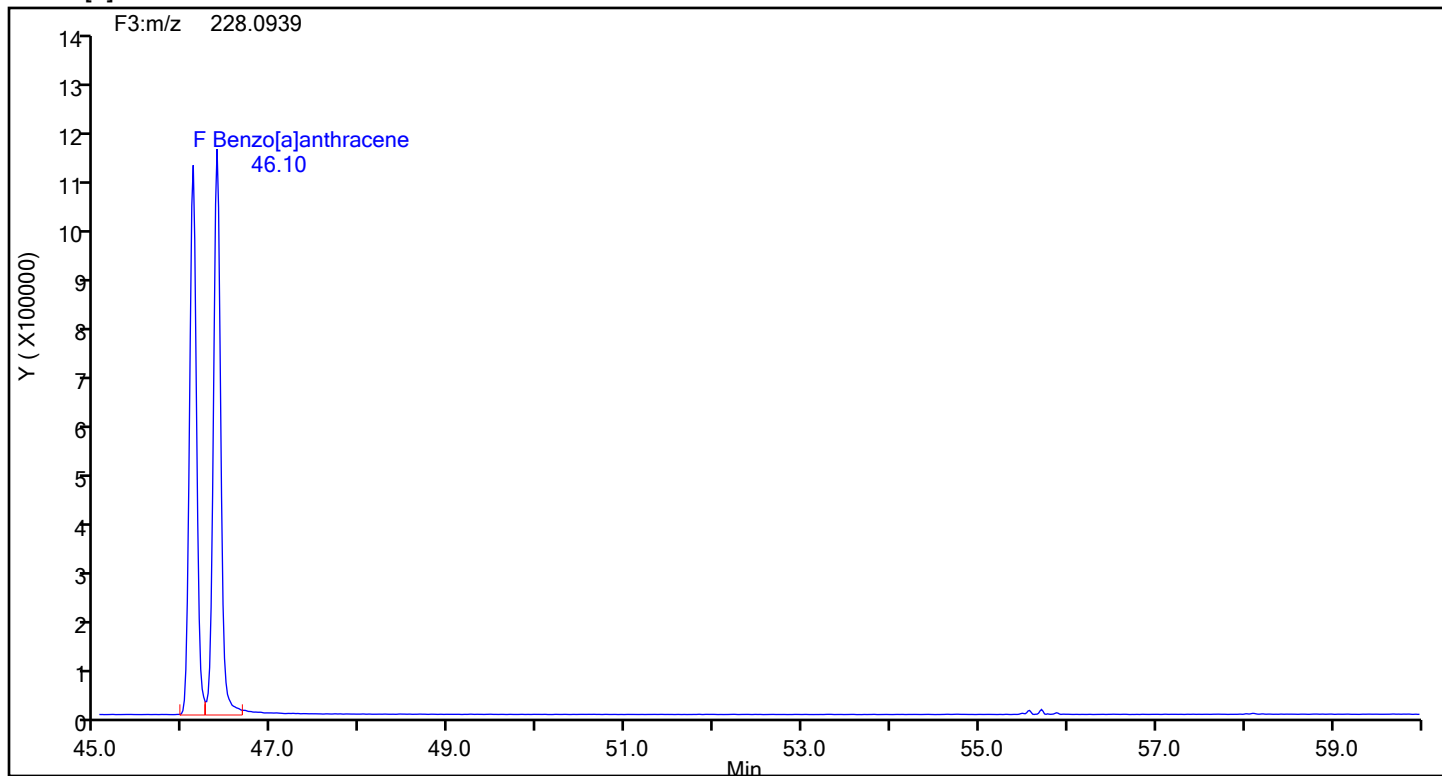
13C6-Benzo(c)fluorene Standards



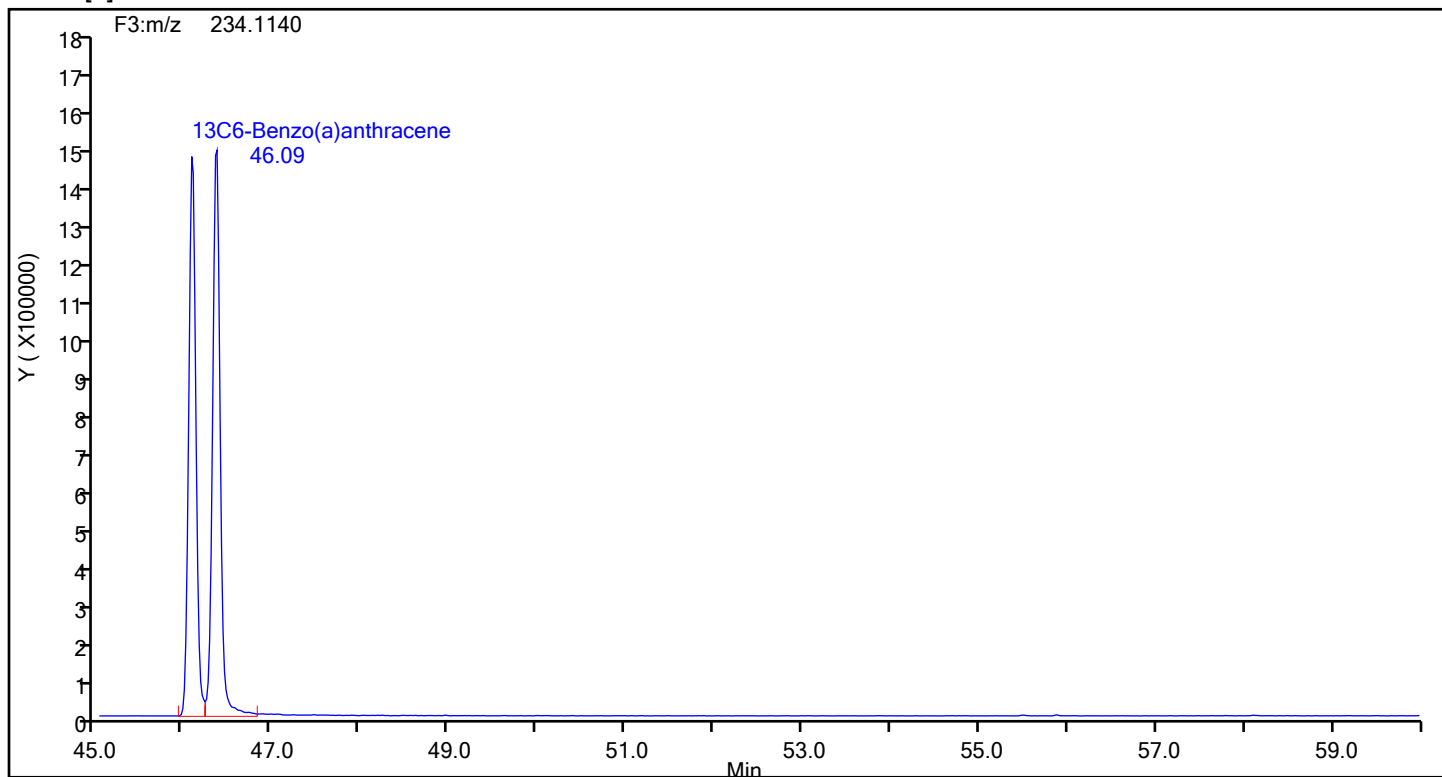
Eurofins Knoxville

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Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



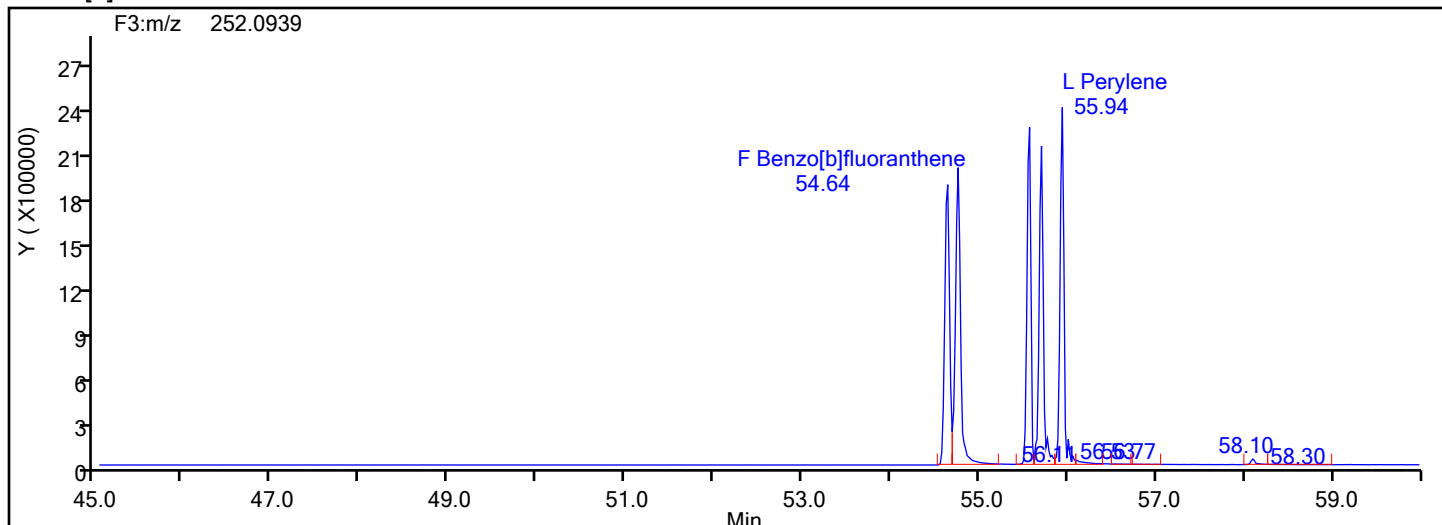
Benzo[a]anthracene Standards



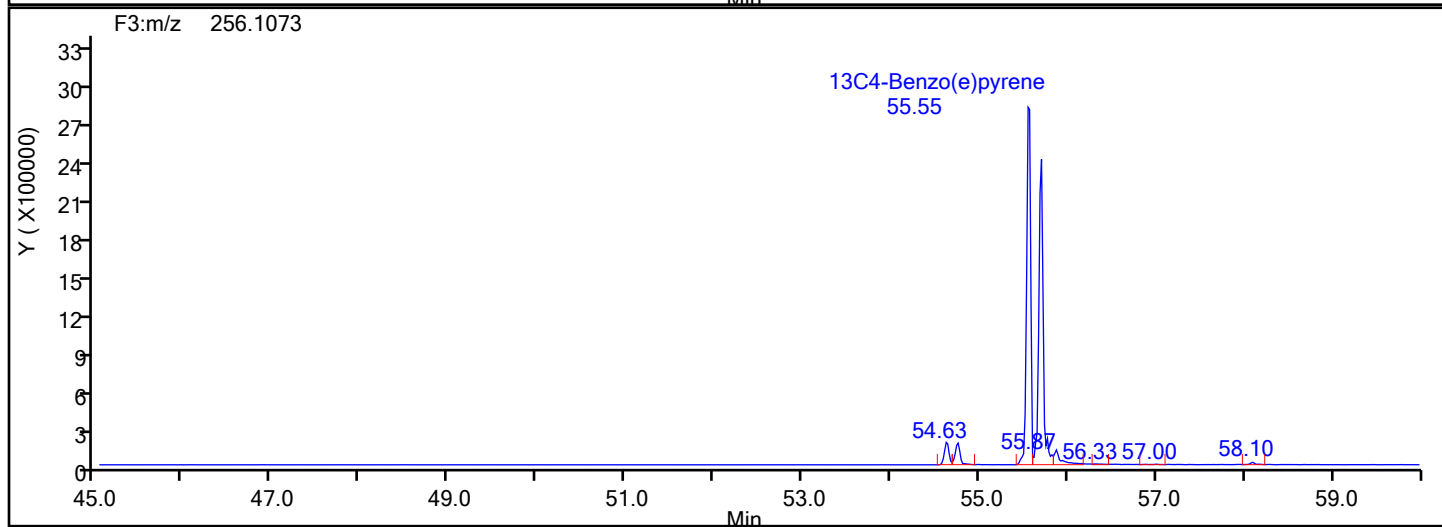
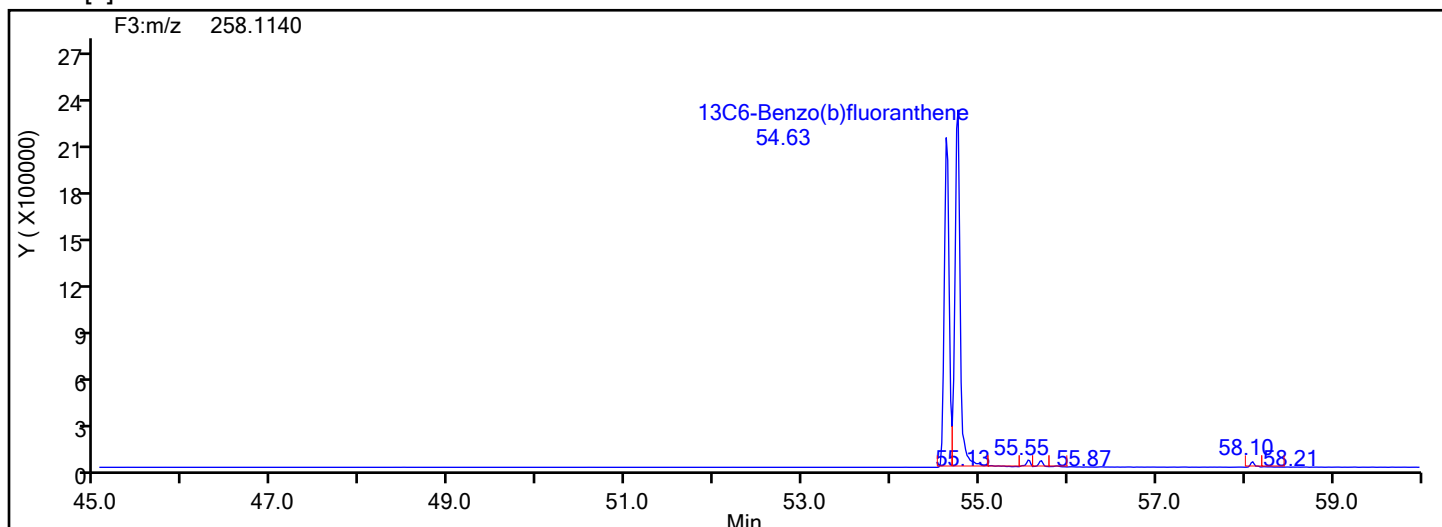
Eurofins Knoxville

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Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



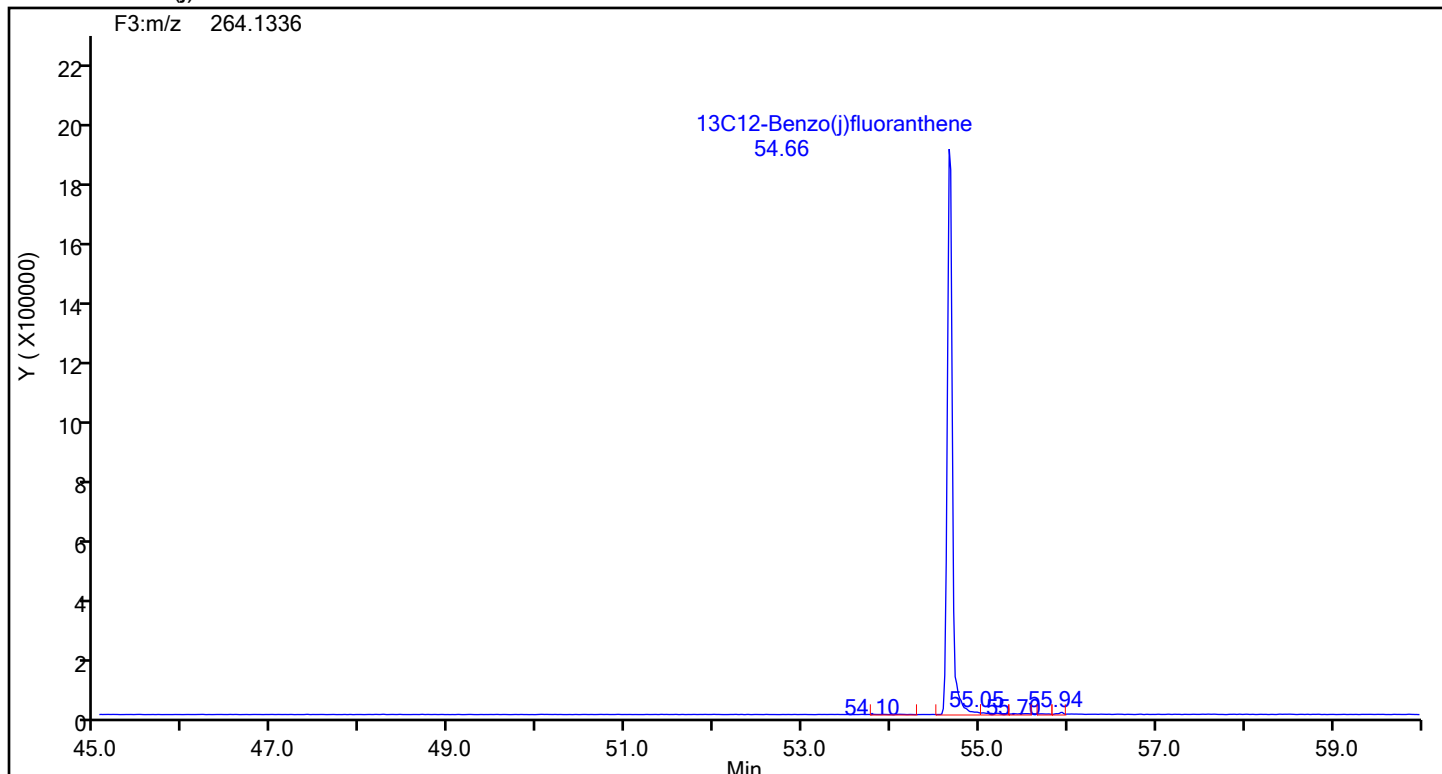
Benzo[b]fluoranthene Standards



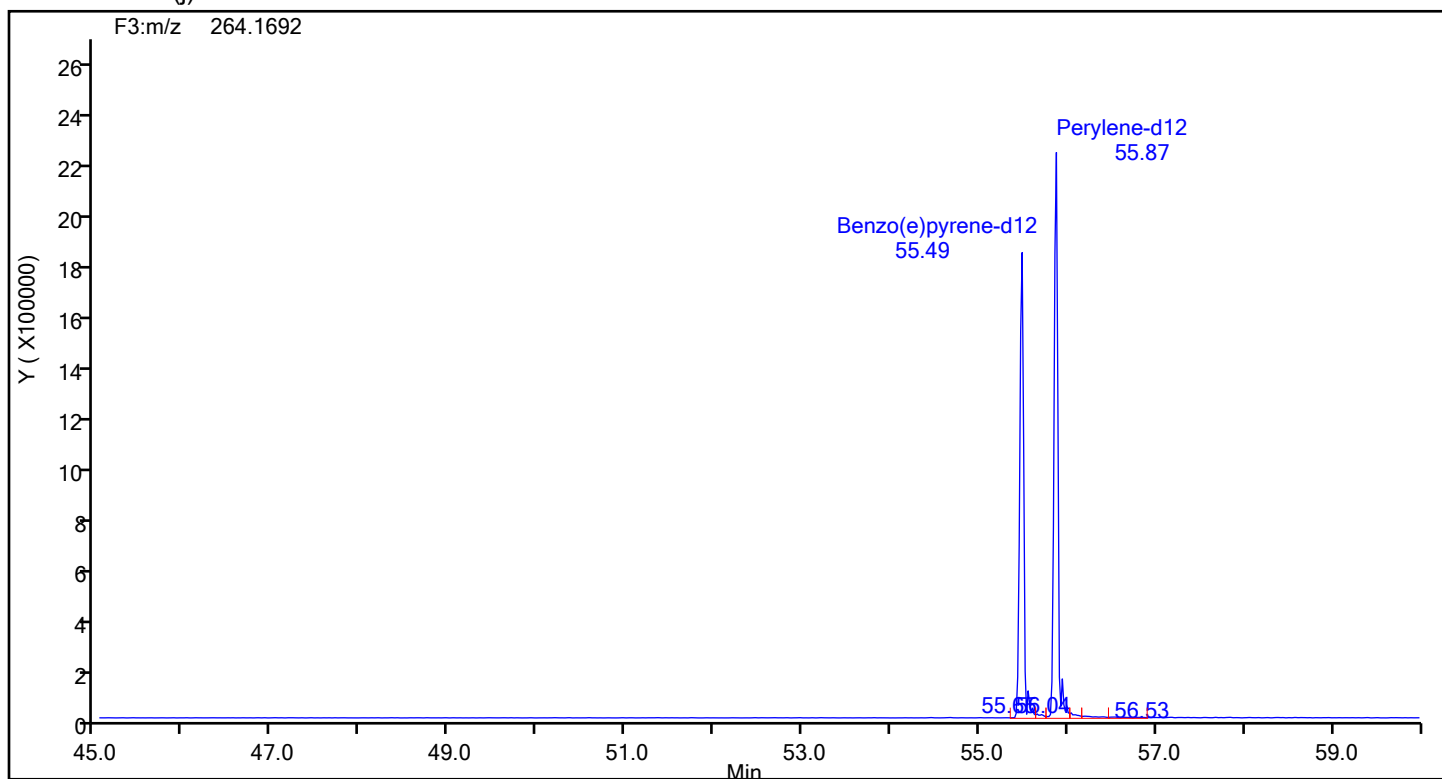
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



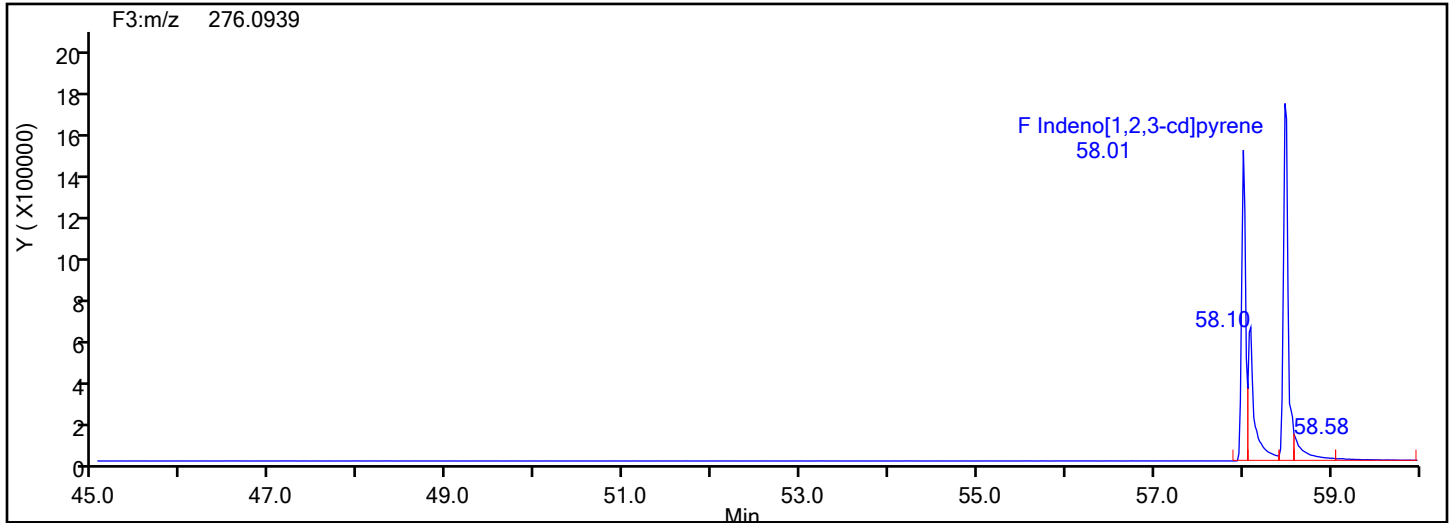
13C12-Benzo(j)fluoranthene Standards



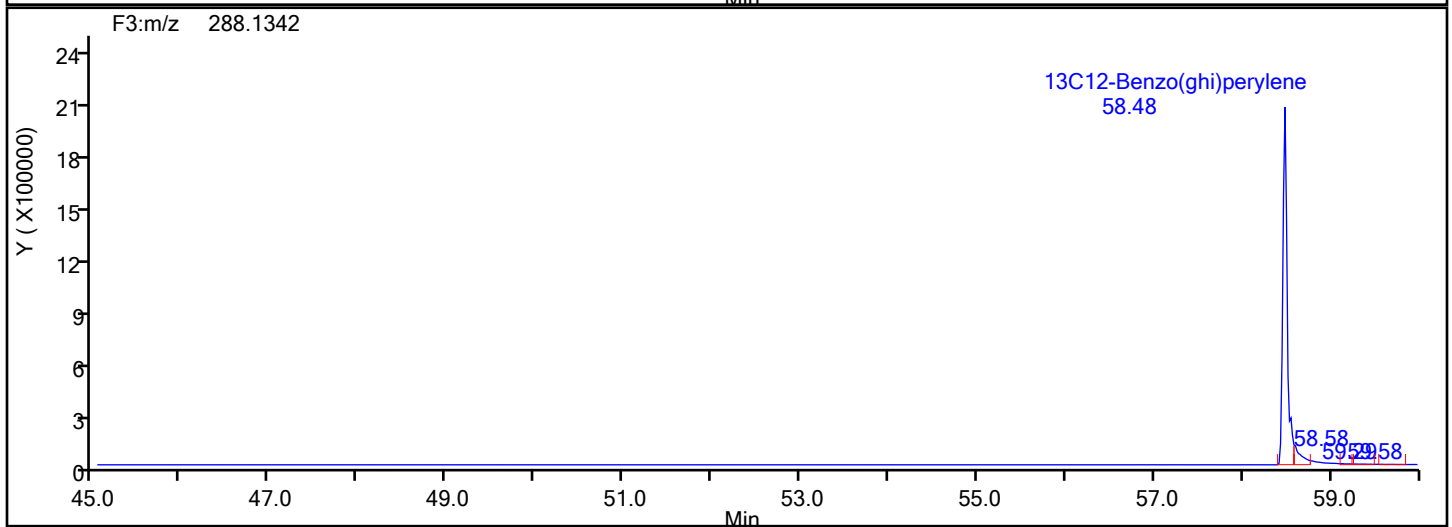
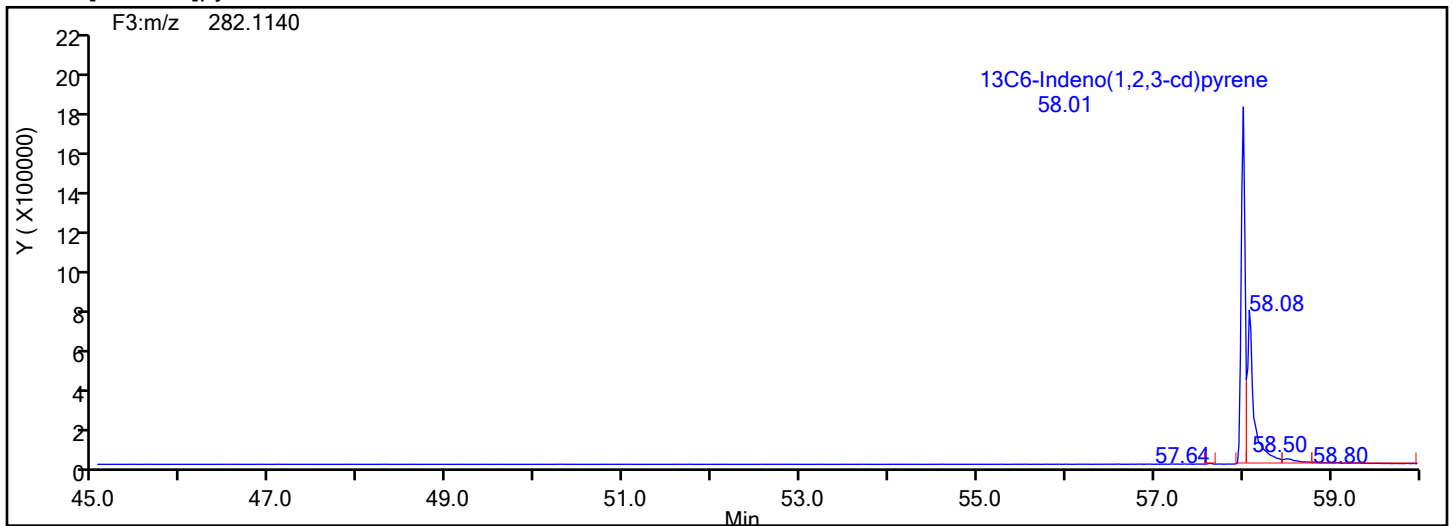
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

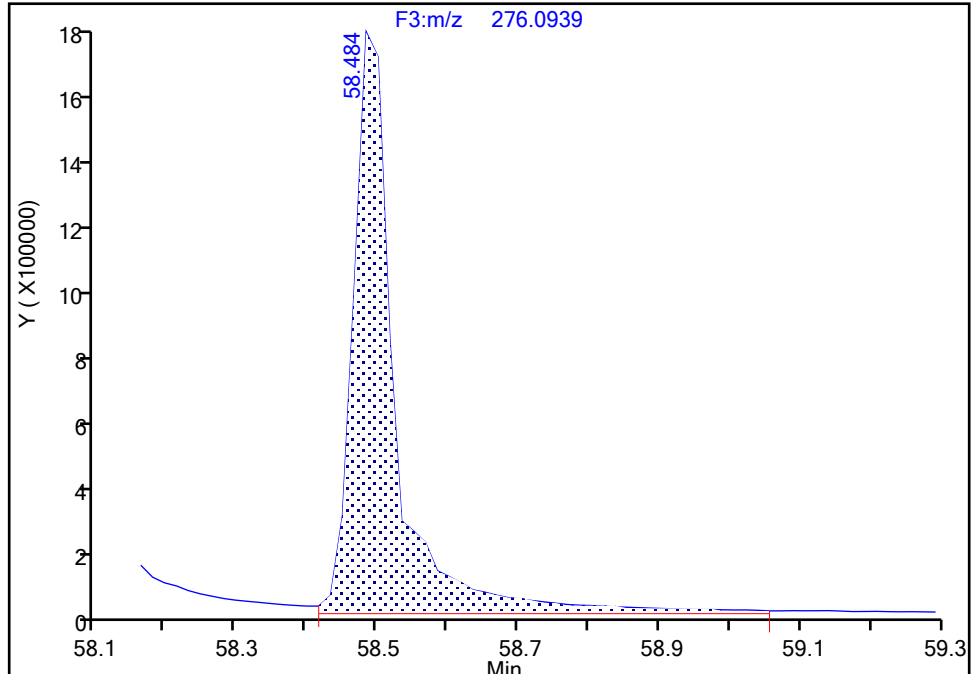
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Injection Date: 19-Jun-2024 21:56:00 Instrument ID: D3PAH
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

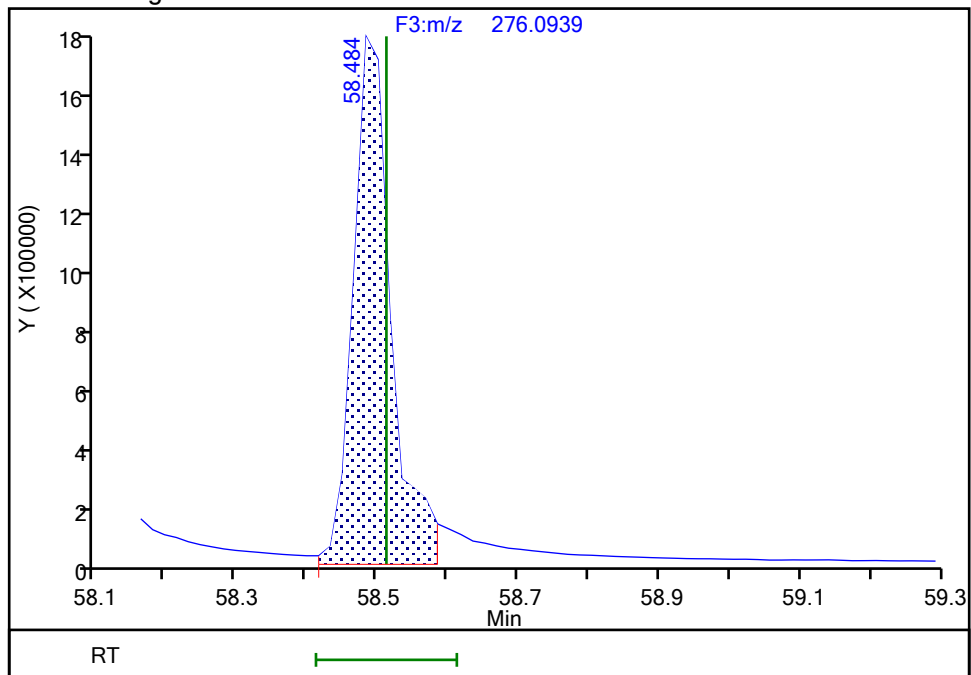
RT: 58.48
Area: 7480538
Amount: 81.865828
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 6540833
Amount: 72.666042
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:40 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

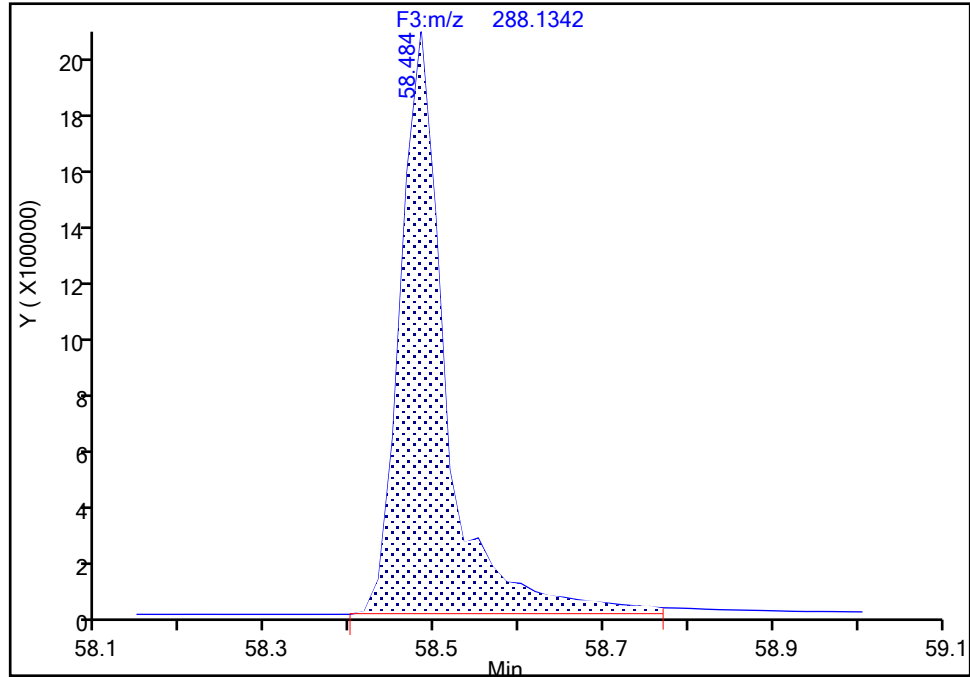
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Injection Date: 19-Jun-2024 21:56:00 Instrument ID: D3PAH
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

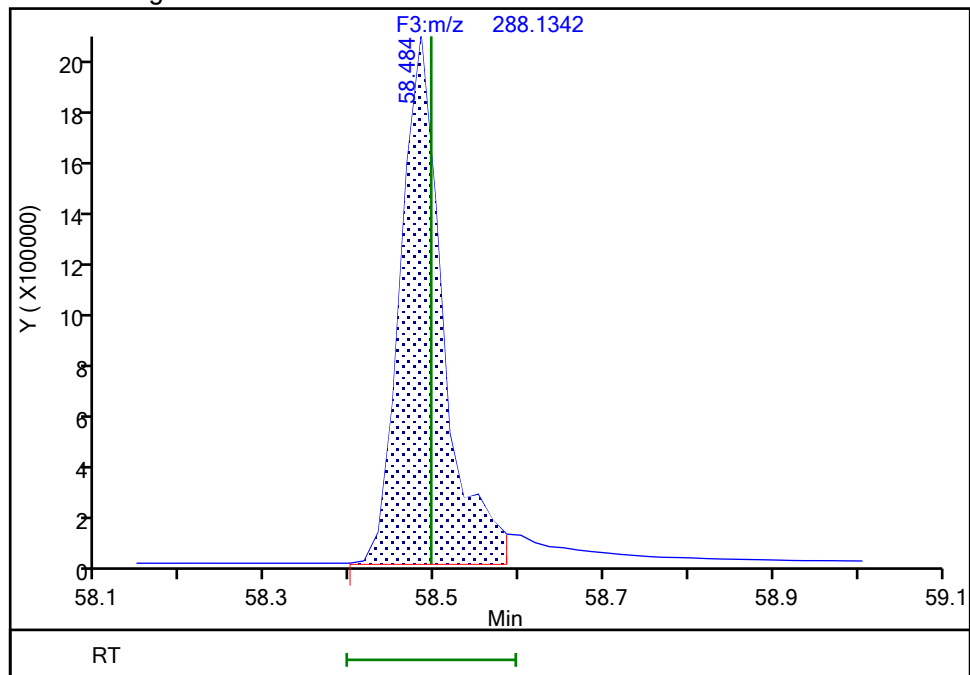
RT: 58.48
Area: 7561145
Amount: 99.107109
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
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Amount: 94.653865
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:17 -04:00:00 (UTC)

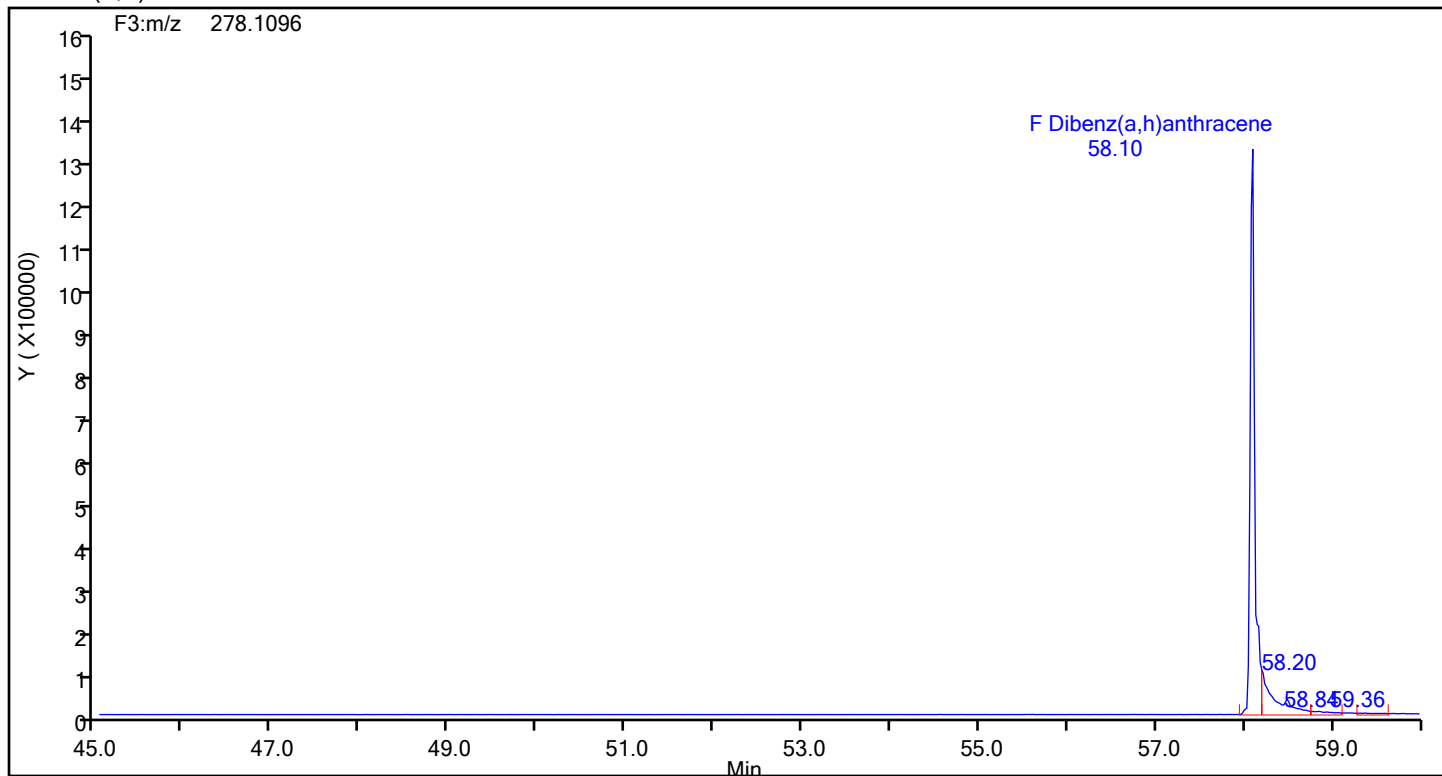
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

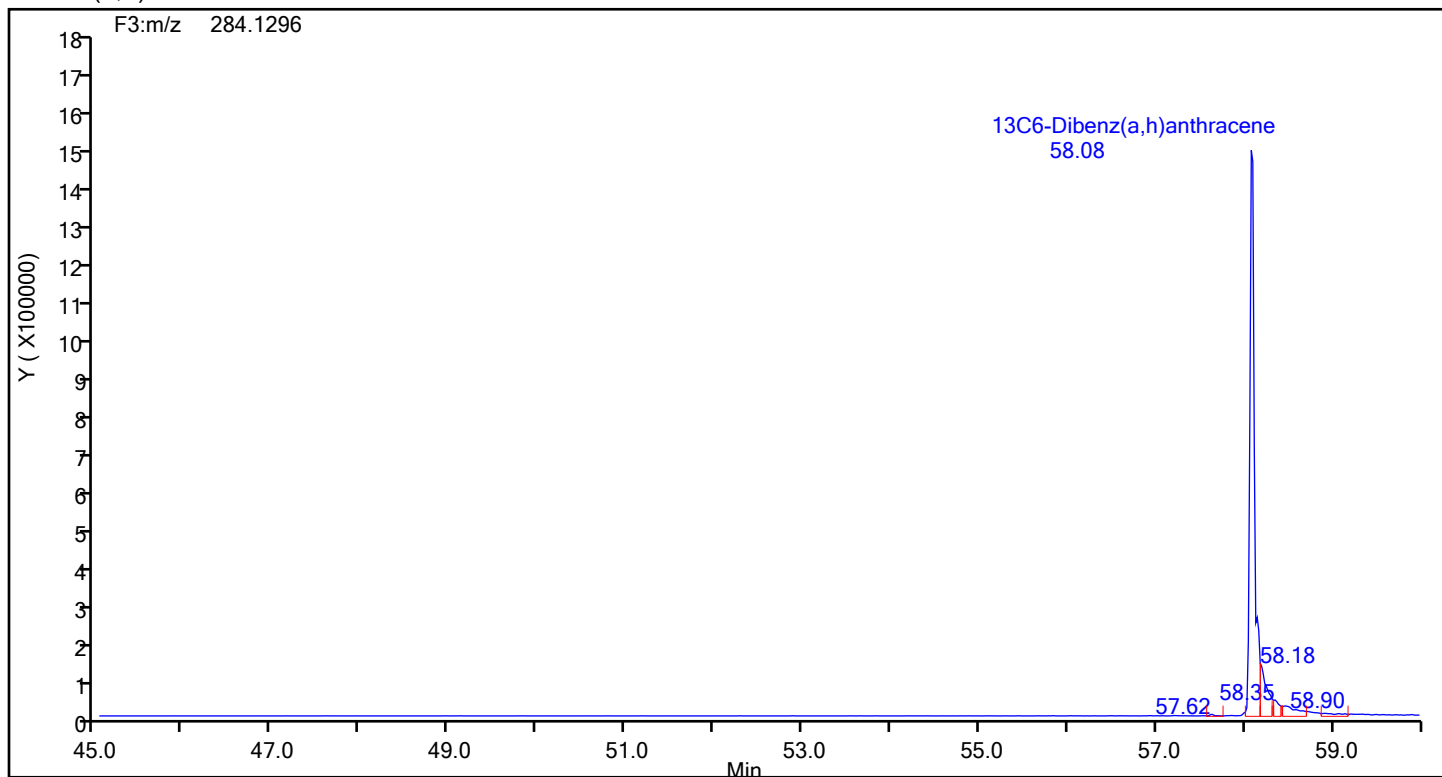
Eurofins Knoxville

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Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

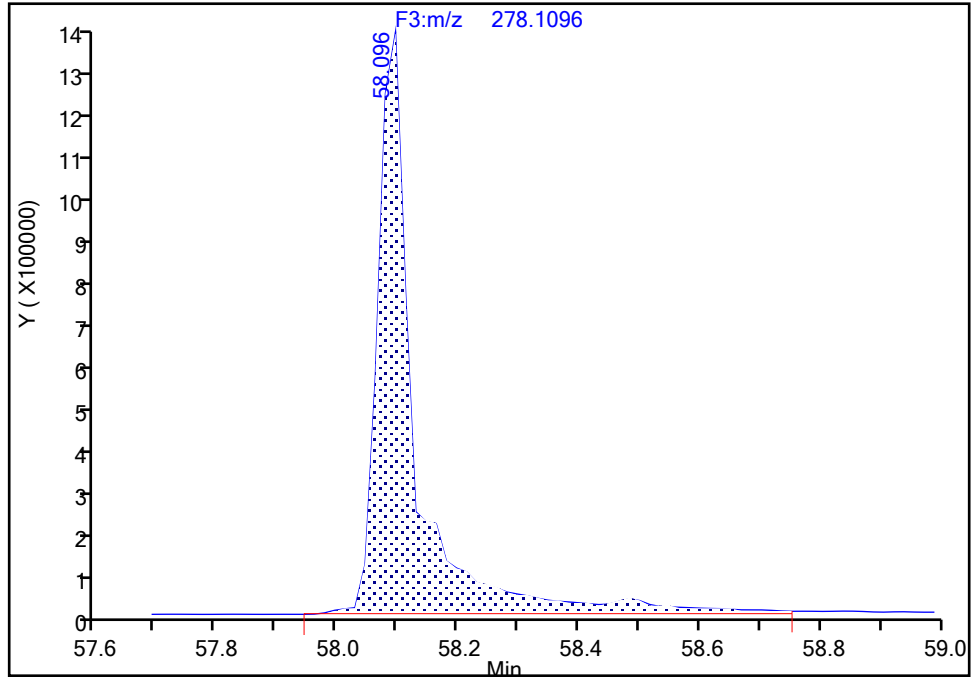
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Injection Date: 19-Jun-2024 21:56:00 Instrument ID: D3PAH
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

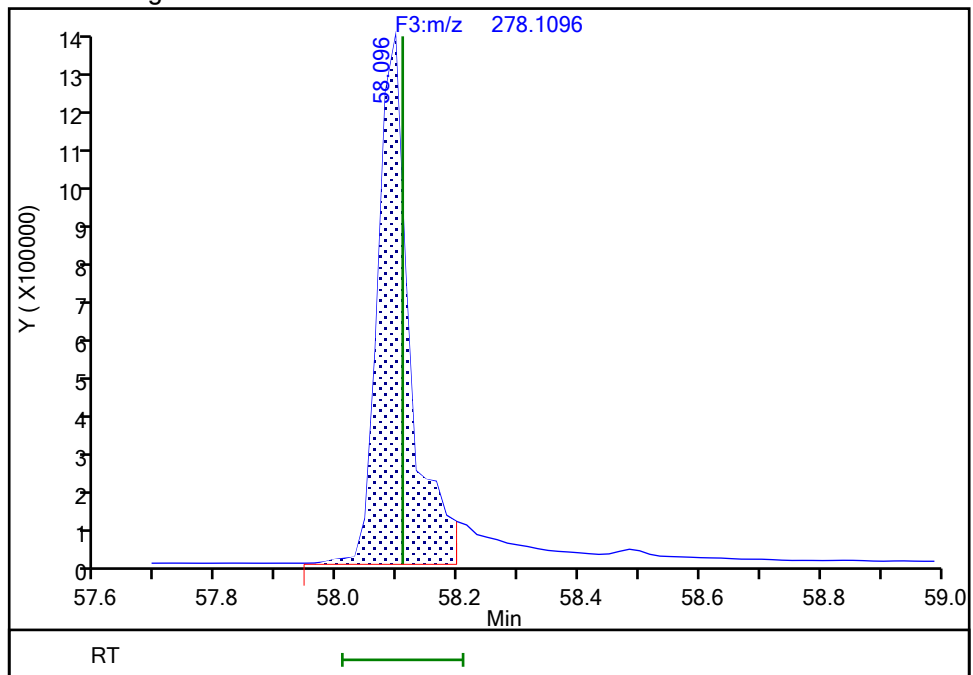
RT: 58.10
Area: 5801087
Amount: 91.156405
Amount Units: pg/ul

Processing Integration Results



RT: 58.10
Area: 4852505
Amount: 76.851579
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:09 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

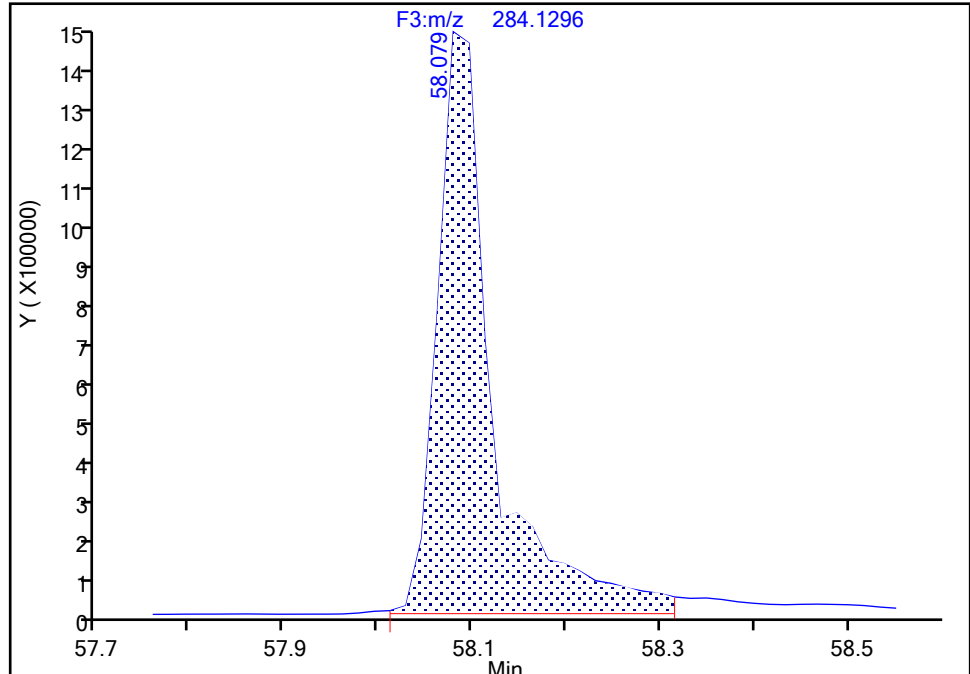
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Injection Date: 19-Jun-2024 21:56:00 Instrument ID: D3PAH
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

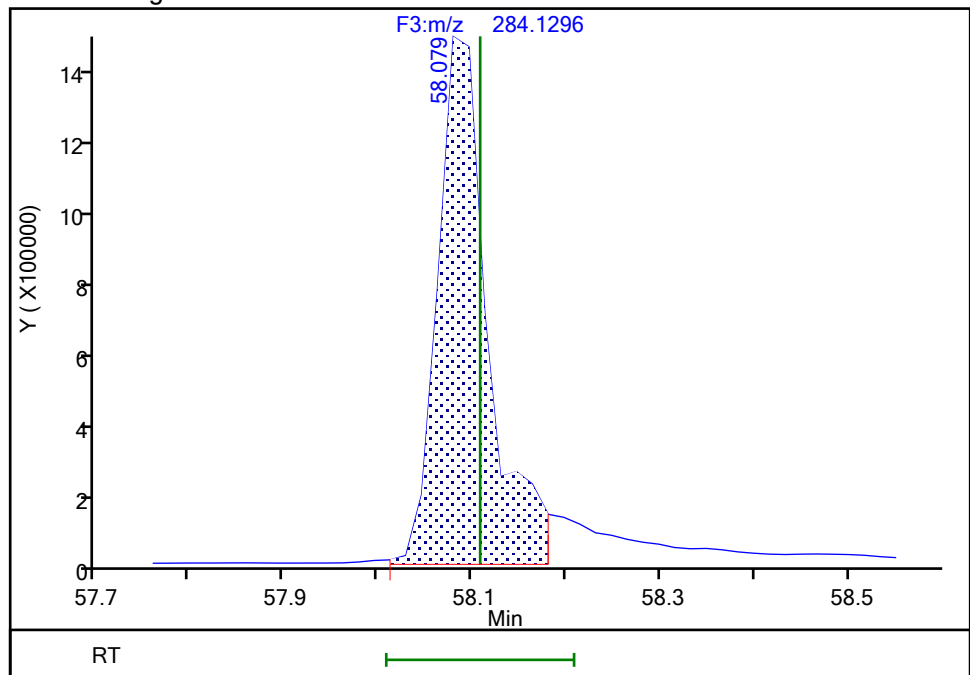
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Amount: 94.535163
Amount Units: pg/ul

Processing Integration Results



RT: 58.08
Area: 5580937
Amount: 91.018729
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 19-Jun-2024 23:00:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jun-2024 09:51:55 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:34:06

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	12167731		3.3746	100.5	100.5	0.005992	0.005992	101	
Naphthalene	11:33	29145441		1.2893	185.8	185.8	0.0302	0.0302	92.89	
D 13C6-2-Methylnaphthalene	13:51	5800321		1.6031	100.9	100.9	0.000868	0.000868	101	
2-Methylnaphthalene	13:52	13752752		1.2786	185.4	185.4	0.0170	0.0170	92.72	
D 13C6-Acenaphthylene	16:45	5949897		1.6520	100.4	100.4	0.001338	0.001338	100	
Acenaphthylene	16:45	15960871		2.3661	190.8	190.8	0.0260	0.0260	95.38	
* Acenaphthene-d10	17:19	3587138		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	3536065		0.9792	100.7	100.7	0.001672	0.001672	101	
Acenaphthene	17:26	8485152		1.2697	189.0	189.0	0.0254	0.0254	94.50	
D 13C6-Fluorene	19:44	3285389		0.8898	102.9	102.9	0.000460	0.000460	103	
Fluorene	19:44	7921341		1.2532	192.4	192.4	0.0279	0.0279	96.20	
D 13C6-Phenanthrene	25:07	4953590		0.5724	107.6	107.6	0.004222	0.004222	108	
Phenanthrene	25:07	10408886		1.1044	190.3	190.3	0.0318	0.0318	95.13	
\$ Anthracin-d10	25:20	3540252		0.4257	103.4	103.4	0.001074	0.001074	103	
D 13C6-Anthracene	25:27	3744430		0.4523	102.9	102.9	0.005343	0.005343	103	
Anthracene	25:27	9842331		1.3586	193.5	193.5	0.0340	0.0340	96.74	
D 13C6-Fluoranthrene	33:52	9842103		1.1994	102.0	102.0	0.0188	0.0188	102	
Fluoranthene	33:53	21447849		1.1513	189.3	189.3	0.0142	0.0142	94.64	
* Pyrene-d10	35:25	8045261		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	11042272		1.3512	101.6	101.6	0.0128	0.0128	102	
Pyrene	35:34	22057676		1.0652	187.5	187.5	0.0142	0.0142	93.76	
\$ 13C6-Benzo(c)fluorene	39:17	4148931		0.5136	100.4	100.4	0.003816	0.003816	100	
D 13C6-Benzo(a)anthracene	46:06	8485215		1.5189	96.3	96.3	0.0132	0.0132	96.33	
Benzo[a]anthracene	46:07	15614632		0.9739	189.0	189.0	0.0283	0.0283	94.48	
D 13C6-Chrysene	46:22	9283915		1.6287	98.3	98.3	0.0123	0.0123	98.29	
Chrysene	46:23	17201644		0.9815	188.8	188.8	0.0268	0.0268	94.39	
D 13C6-Benzo(b)fluoranthene	54:38	8615715		1.4621	101.6	101.6	0.001318	0.001318	102	
Benzo[b]fluoranthene	54:39	18032275		1.1249	186.1	186.1	0.006779	0.006779	93.03	
\$ 13C12-Benzo(j)fluoranthene	54:40	7928880		1.3558	100.8	100.8	0.0149	0.0149	101	
D 13C6-Benzo(k)fluoranthene	54:46	10118186		1.7507	99.7	99.7	0.001101	0.001101	99.66	
Benzo[k]fluoranthene	54:46	21097665		1.1271	185.0	185.0	0.006303	0.006303	92.50	
* Benzo(e)pyrene-d12	55:30	5799368		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:34	9276322		1.6368	97.7	97.7	0.009757	0.009757	97.72	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	17407219		1.0013	187.4	187.4	0.005897	0.005897	93.71	
Benzo[a]pyrene	55:43	18599410		1.1130	190.5	190.5	0.005858	0.005858	95.25	
D 13C4-Benzo(a)pyrene	55:43	8772202		1.5508	97.5	97.5	0.0103	0.0103	97.54	
D Perylene-d12	55:53	7004851		1.1917	101.4	101.4	0.0158	0.0158	101	
Perylene	55:57	19642615		1.4307	196.0	196.0	0.005442	0.005442	98.00	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	6349503		1.0218	107.1	107.1	0.009809	0.009809	107	M
Indeno[1,2,3-cd]pyrene	58:01	12310533		1.1249	172.3	172.3	0.006392	0.006392	86.17	
D 13C6-Dibenz(a,h)anthracene	58:06	6110020		1.0553	99.8	99.8	0.005219	0.005219	99.84	M
Dibenz(a,h)anthracene	58:06	12538607		1.1314	181.4	181.4	0.005625	0.005625	90.69	M
D 13C12-Benzo(ghi)perylene	58:30	7551974		1.2749	102.1	102.1	0.005184	0.005184	102	M
Benzo[g,h,i]perylene	58:31	17229589		1.2838	177.7	177.7	0.004988	0.004988	88.86	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS5a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

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 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 19-Jun-2024 23:00:00 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-007
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
 Limit Group: HR - HRPAAH ICAL
 Last Update: 20-Jun-2024 09:51:55 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:34:06

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	-1	0.666	12167731	4165041	99	247	42071		
Naphthalene											
128.0626	11:33	11:34	-1	1.000	29145441	9997251	649	1622	15404		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:52	-1	0.800	5800321	2698809	7	17	385544		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.001	13752752	6450856	235	587	27450		
13C6-Acenaphthylene											
158.0828	16:45	16:45	-1	0.966	5949897	2135616	11	27	194147		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	15960871	5725962	305	762	18774		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3587138	1221597	2	5	610799		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	3536065	1238157	8	20	154770		
Acenaphthene											
154.0783	17:26	17:27	-1	1.000	8485152	2885513	160	400	18034		
13C6-Fluorene											
172.0984	19:44	19:45	-1	1.139	3285389	978999	2	5	489500		
Fluorene											
166.0783	19:44	19:45	-1	1.000	7921341	2350494	137	342	17157		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	4953590	1157531	15	37	77169		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	10408886	2455362	163	407	15064		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	3540252	830170	3	7	276723		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	3744430	880289	15	37	58686		
Anthracene											
178.0783	25:27	25:28	-1	1.000	9842331	2230606	163	407	13685		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	9842103	1935757	138	345	14027		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	21447849	4259881	127	317	33542		
Pyrene-d10											
212.1404	35:25	35:27	-1		8045261	1530843	49	122	31242		
13C3-Pyrene											
205.0883	35:34	35:35	-1	1.004	11042272	2101643	106	265	19827		
Pyrene											
202.0783	35:34	35:35	-1	1.000	22057676	4203969	127	317	33102		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:18	-1	0.708	4148931	752708	12	30	62726		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:07	-2	1.301	8485215	1511187	146	365	10351		
Benzo[a]anthracene											
228.0939	46:07	46:07	-1	1.000	15614632	2786413	167	417	16685		
13C6-Chrysene											
234.1140	46:22	46:24	-2	1.309	9283915	1587692	146	365	10875		
Chrysene											
228.0939	46:23	46:25	-2	1.000	17201644	2935186	167	417	17576		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	8615715	2255354	14	35	161097		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	18032275	4894763	69	172	70939		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	7928880	2019955	147	367	13741		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	10118186	2421215	14	35	172944		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	21097665	5269334	69	172	76367		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	-1		5799368	1815765	137	342	13254		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:35	-2	1.001	9276322	2912882	116	290	25111		
Benzo[e]pyrene											
252.0939	55:35	55:35	-1	1.000	17407219	5763329	69	172	83527		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	18599410	5665848	69	172	82114		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	8772202	2638078	116	290	22742		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	7004851	2209250	137	342	16126		
Perylene											
252.0939	55:57	55:58	-1	1.001	19642615	6384987	69	172	92536		
13C6-Indeno(1,2,3-cd)pyrene											M
282.1140	58:01	58:02	0	1.046	6349503	1946937	73	182	26670		M
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-1	1.000	12310533	3867925	56	140	69070		
13C6-Dibenz(a,h)anthracene											M
284.1296	58:06	58:07	0	1.047	6110020	1681244	40	100	42031		M
Dibenz(a,h)anthracene											M
278.1096	58:06	58:07	0	1.000	12538607	3613228	43	107	84029		M
13C12-Benzo(ghi)perylene											M
288.1342	58:30	58:30	0	1.054	7551974	2186484	48	120	45552		M
Benzo[g,h,i]perylene											M
276.0939	58:31	58:31	0	1.000	17229589	4719941	56	140	84285		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS5a_00002

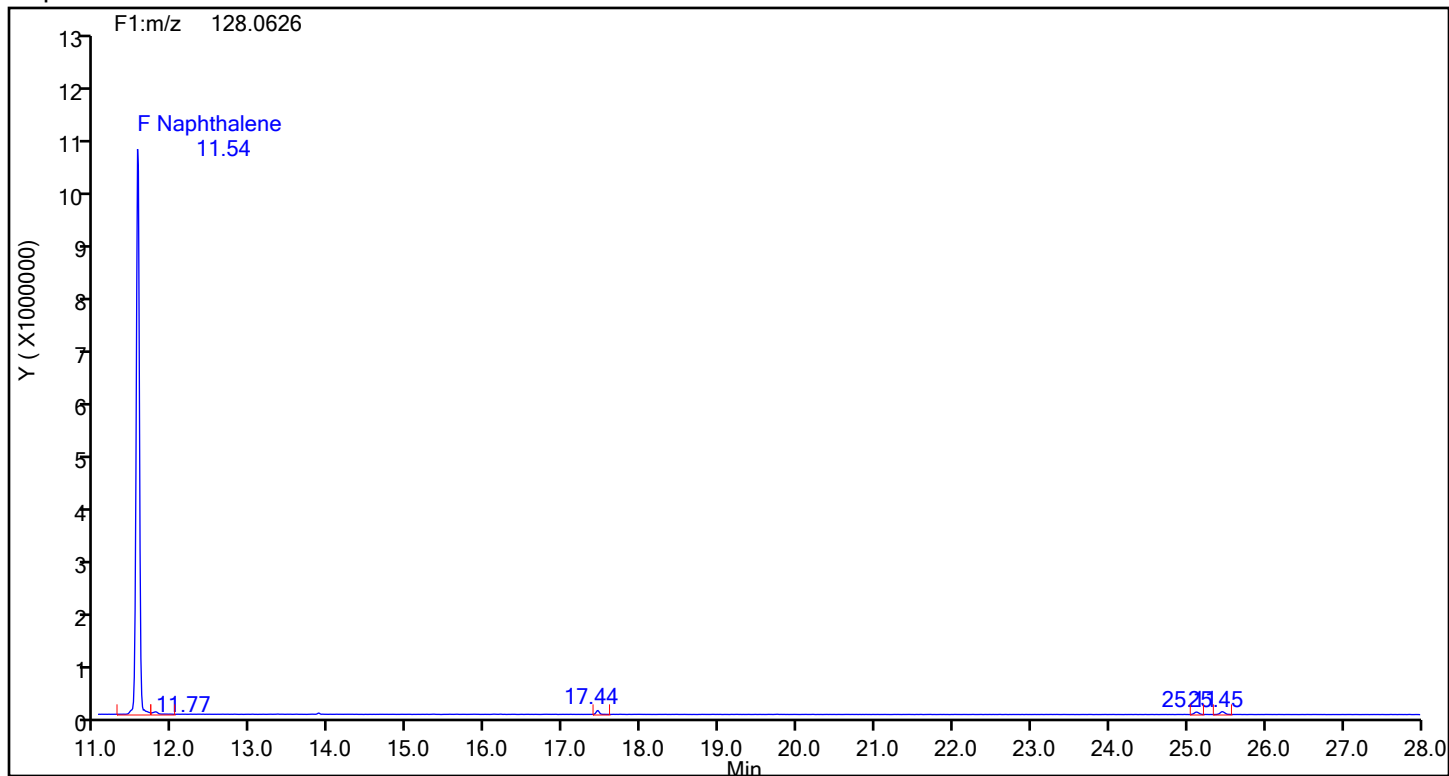
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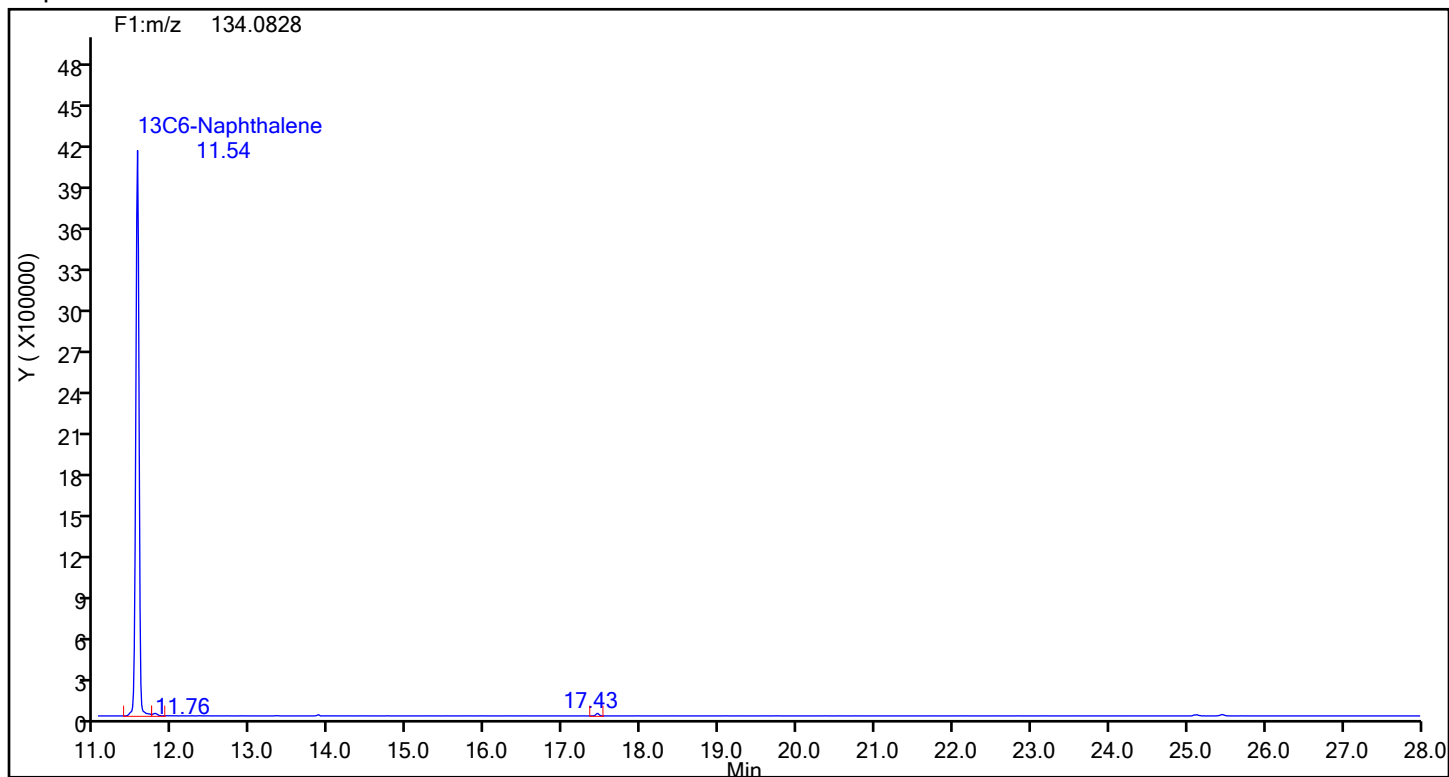
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Client ID:
Worklist#: 87843 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



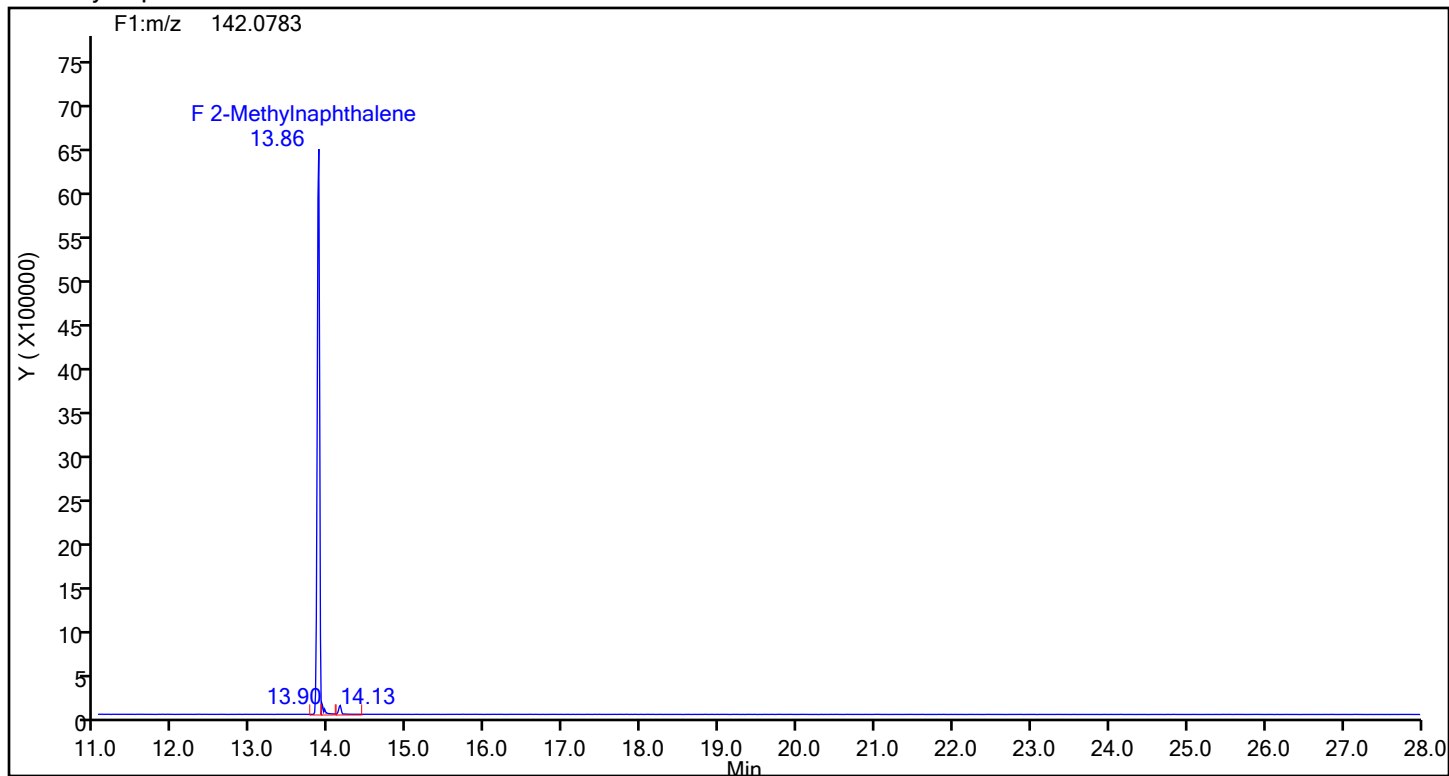
Naphthalene Standards



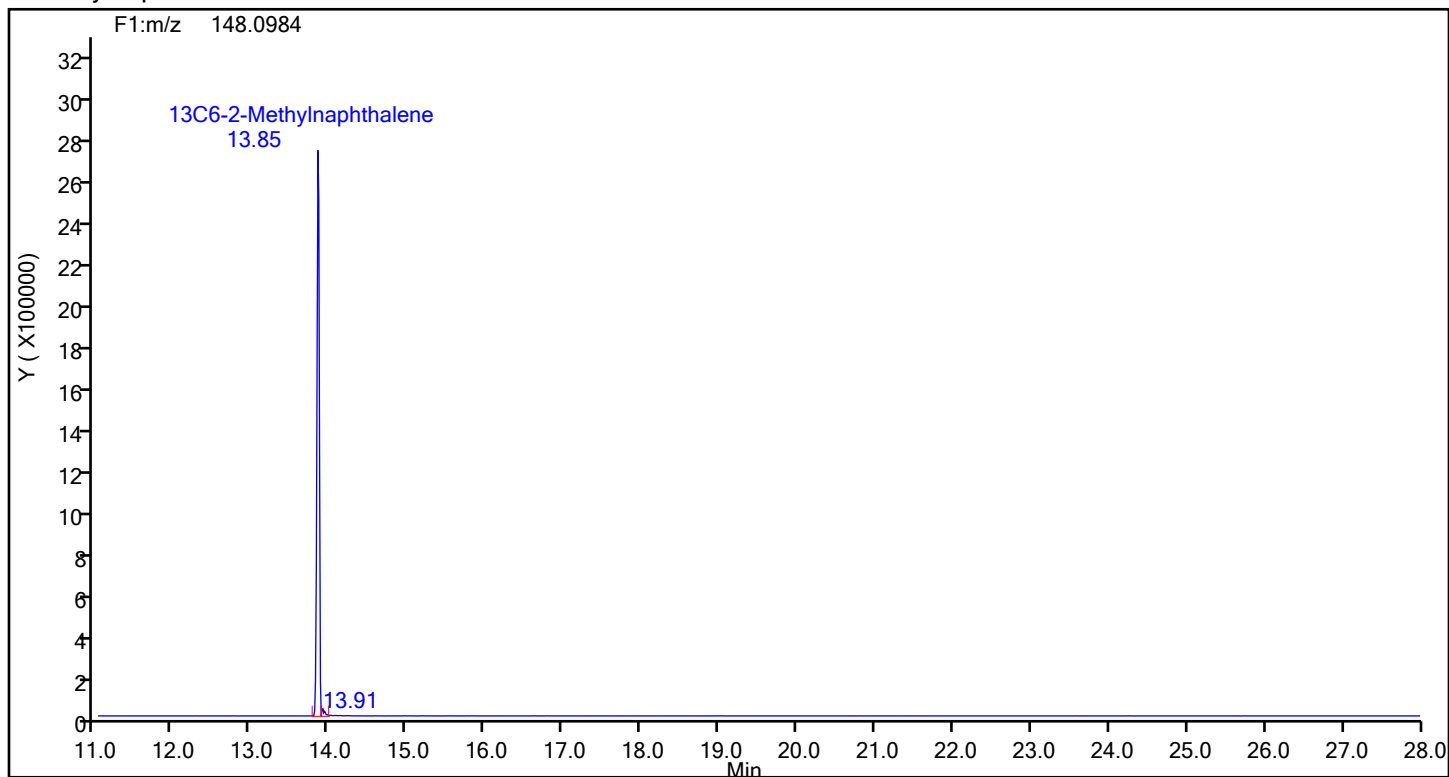
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



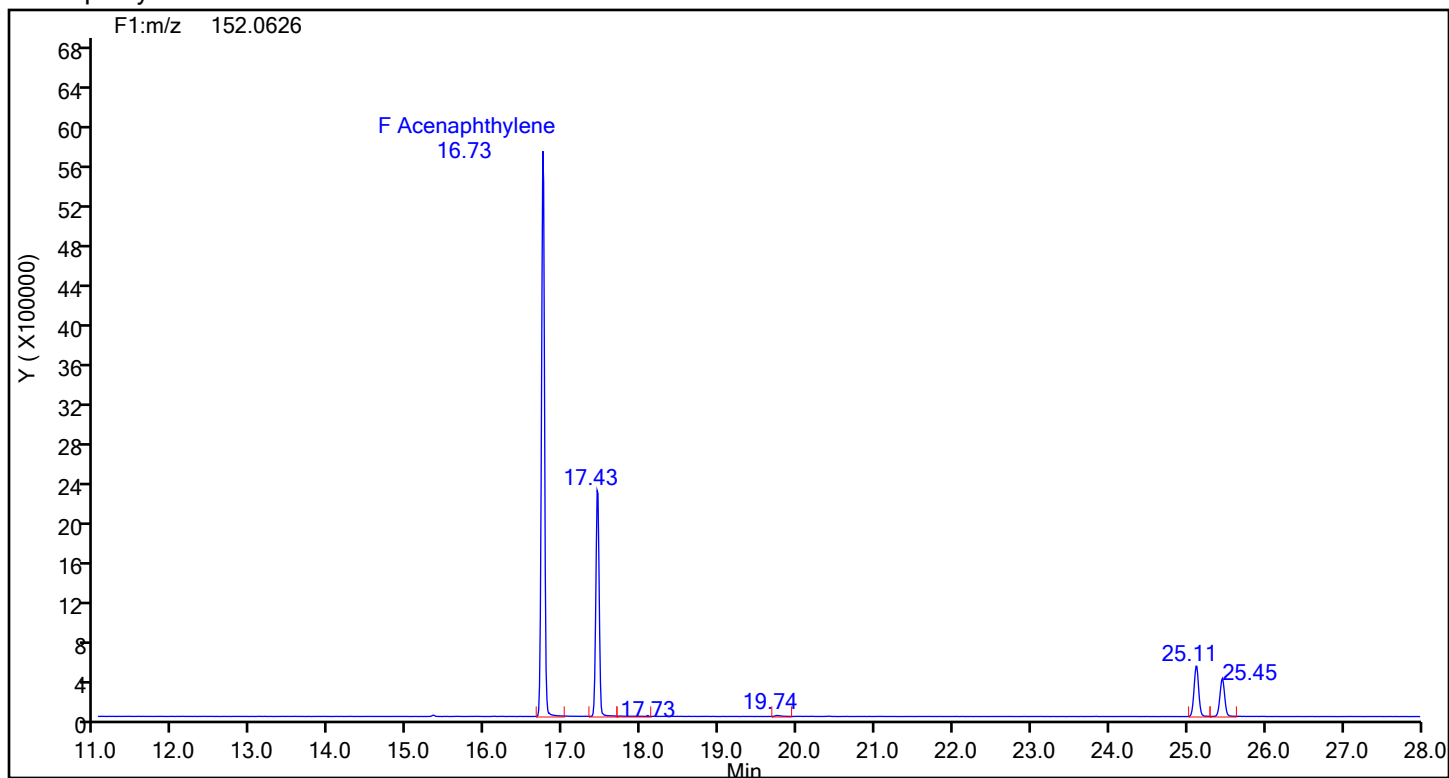
2-Methylnaphthalene Standards



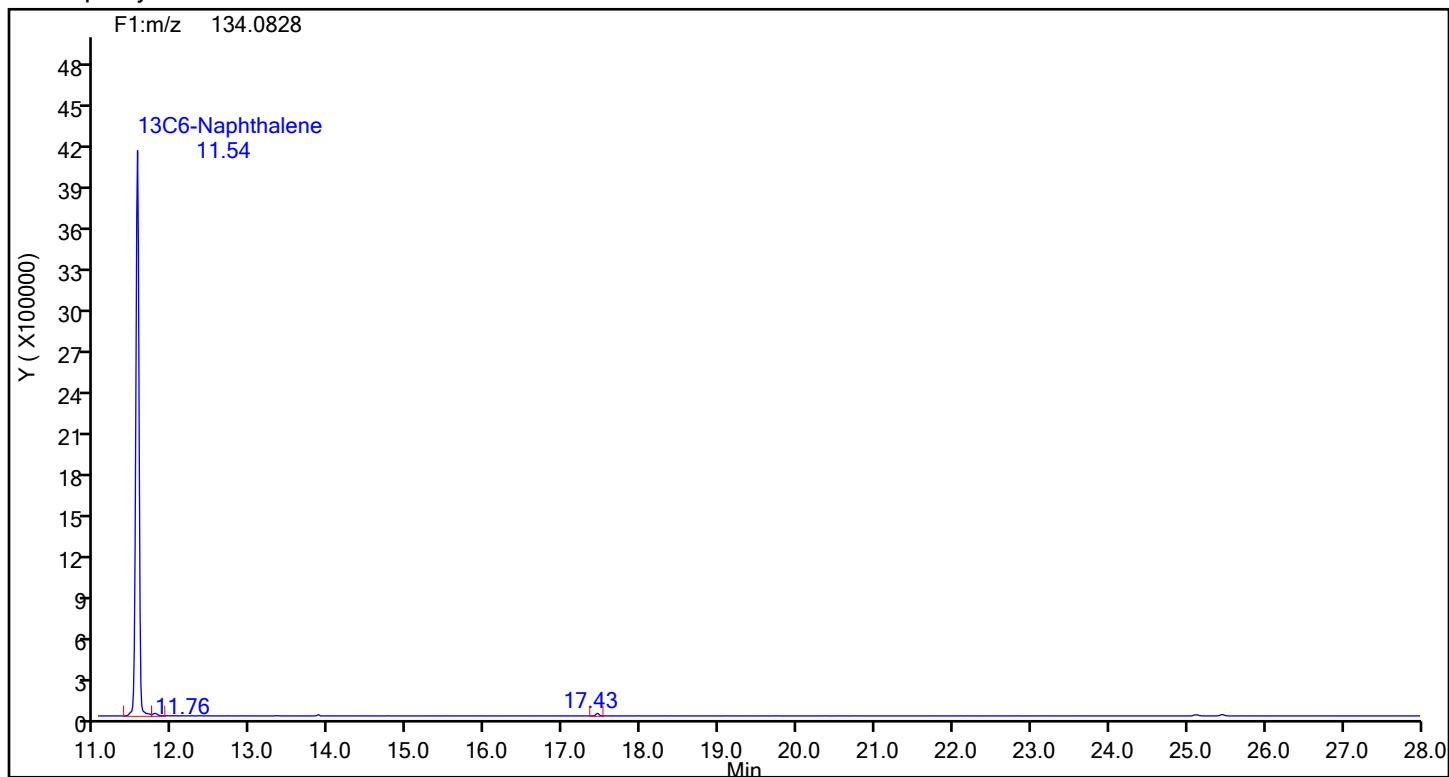
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Acenaphthylene



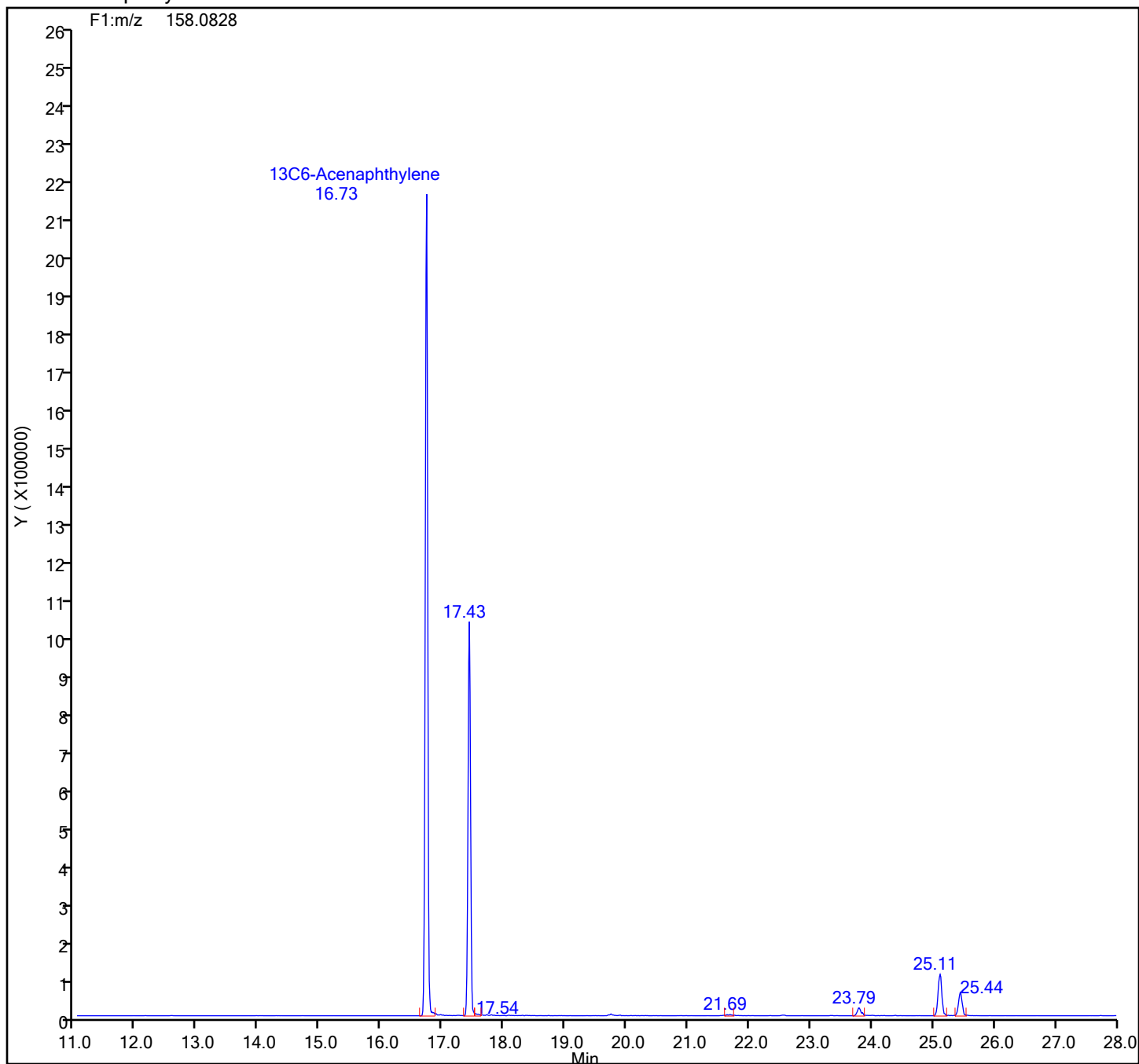
Acenaphthylene Standards



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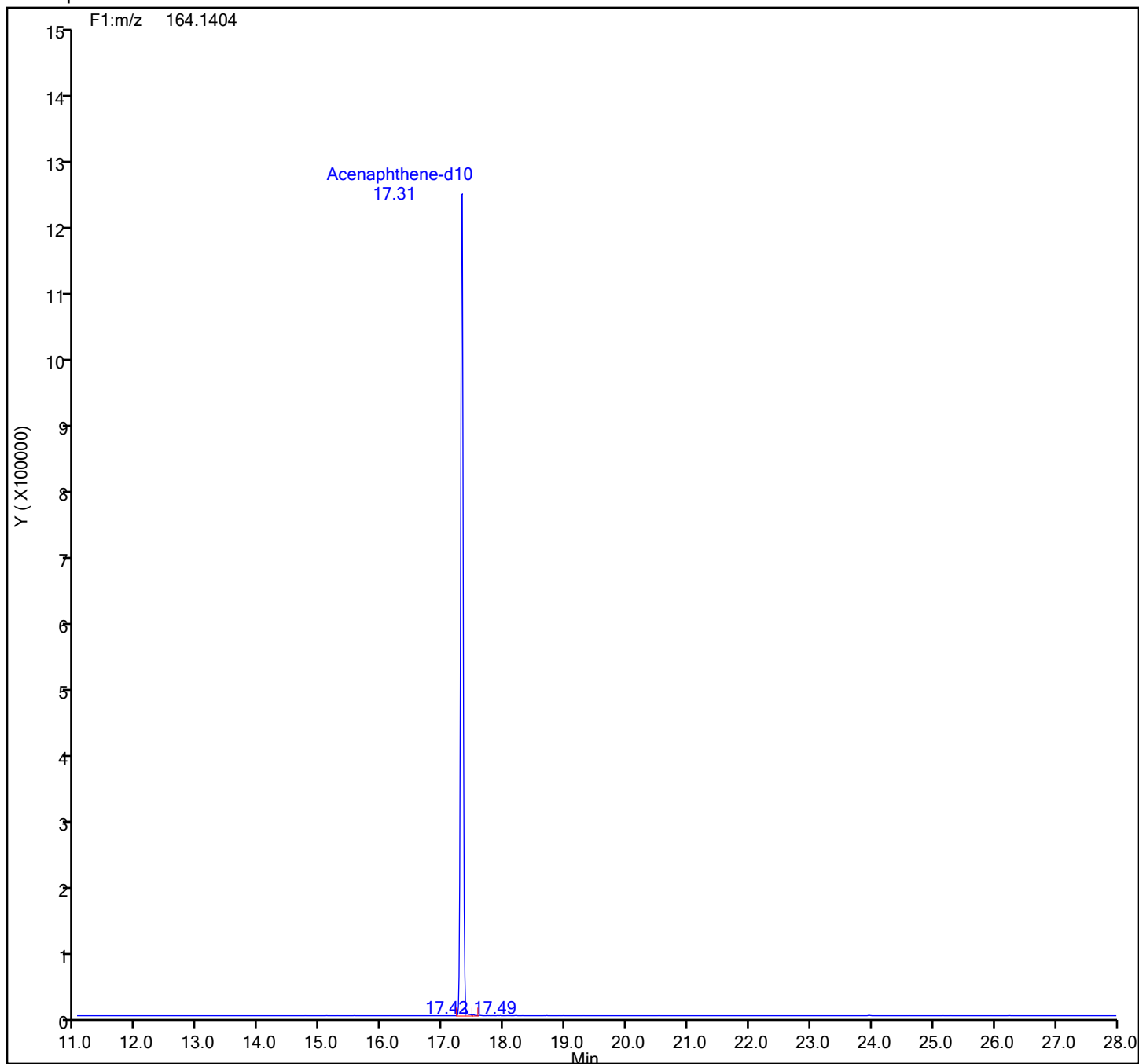
13C6-Acenaphthylene Standards



Eurofins Knoxville

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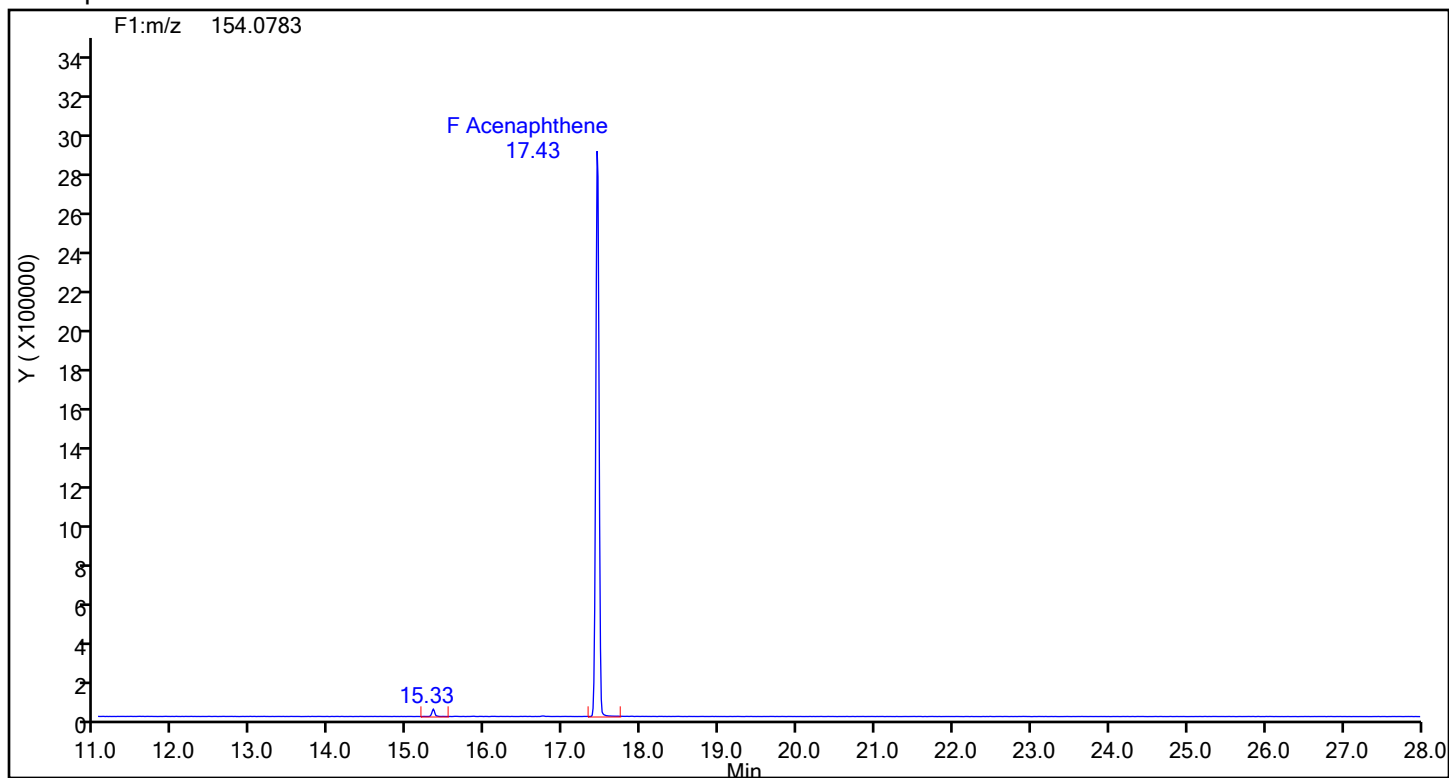
Acenaphthene-d10 Standards



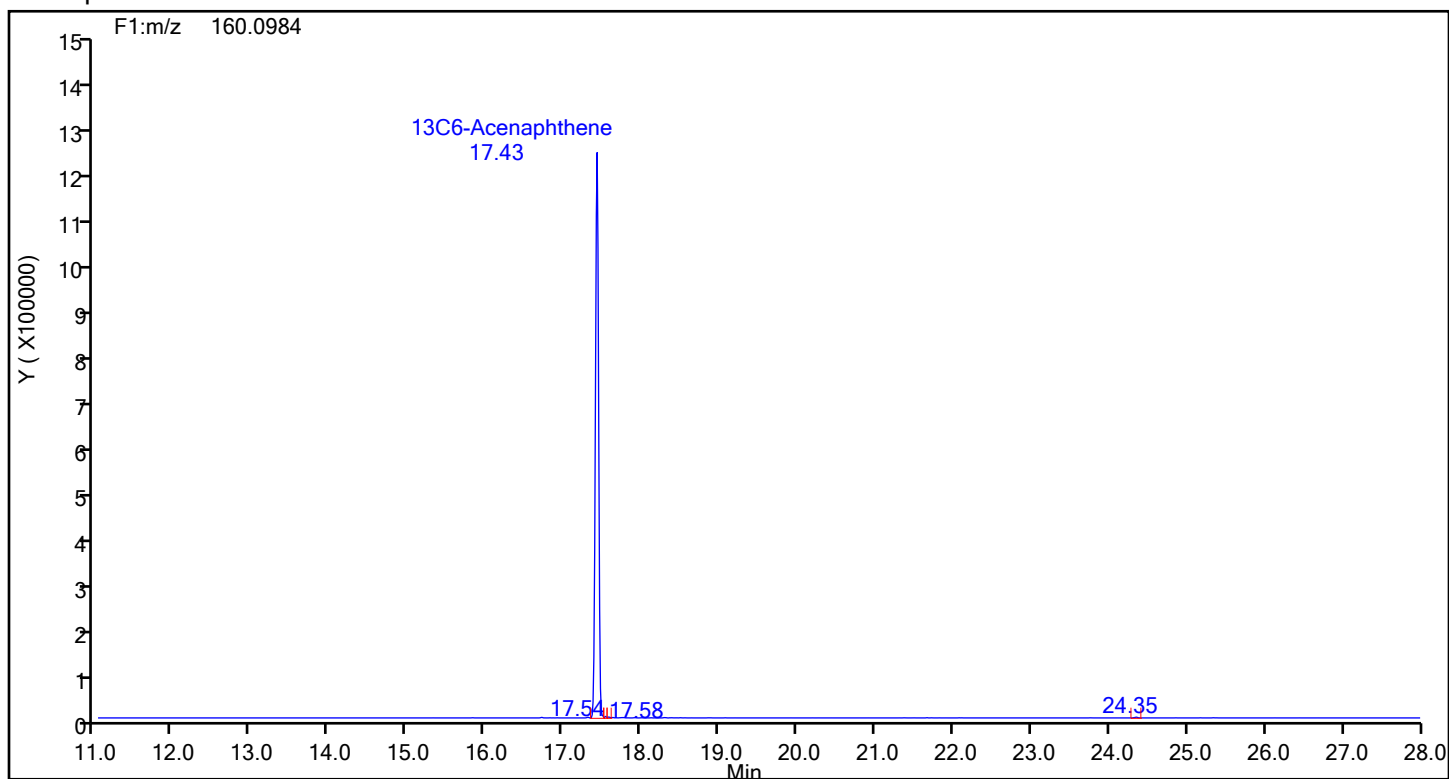
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Acenaphthene



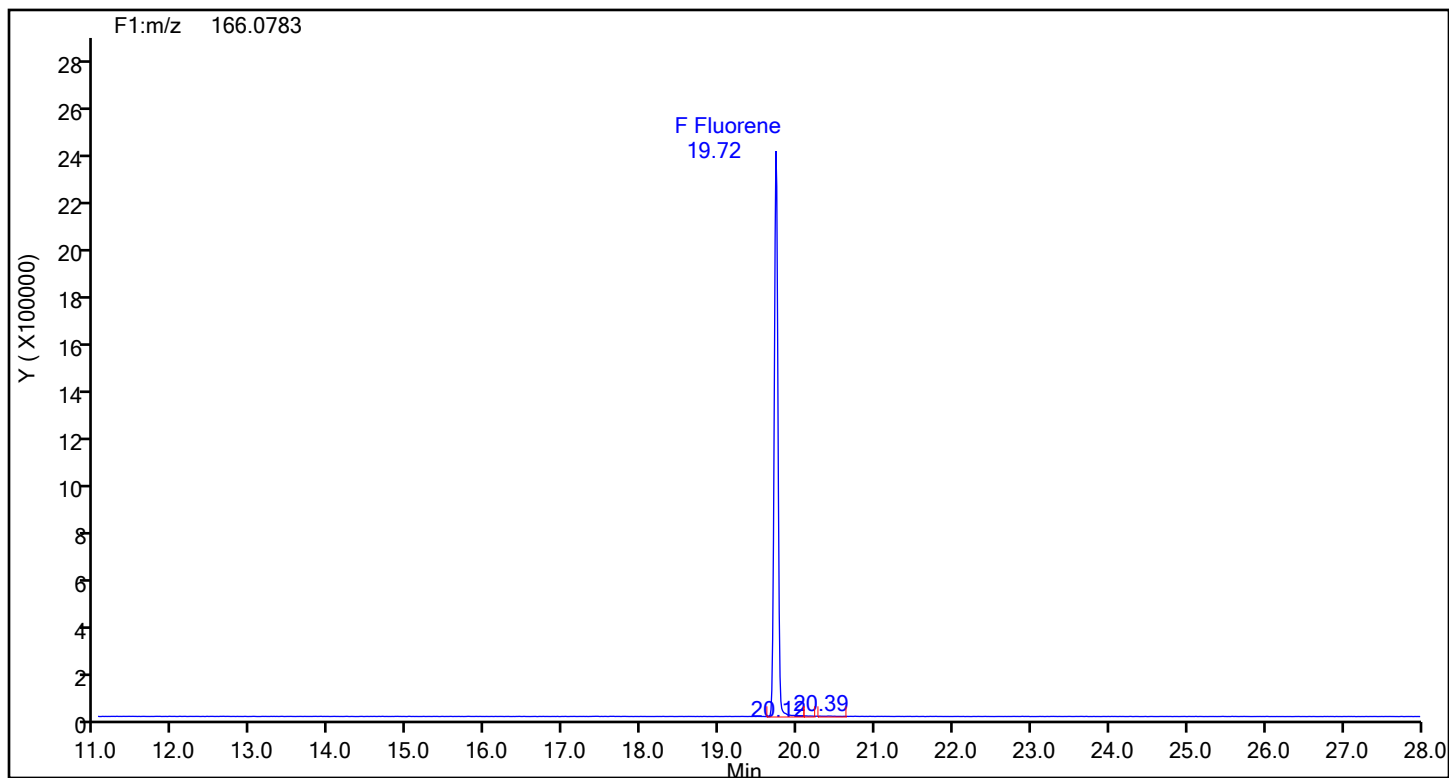
Acenaphthene Standards



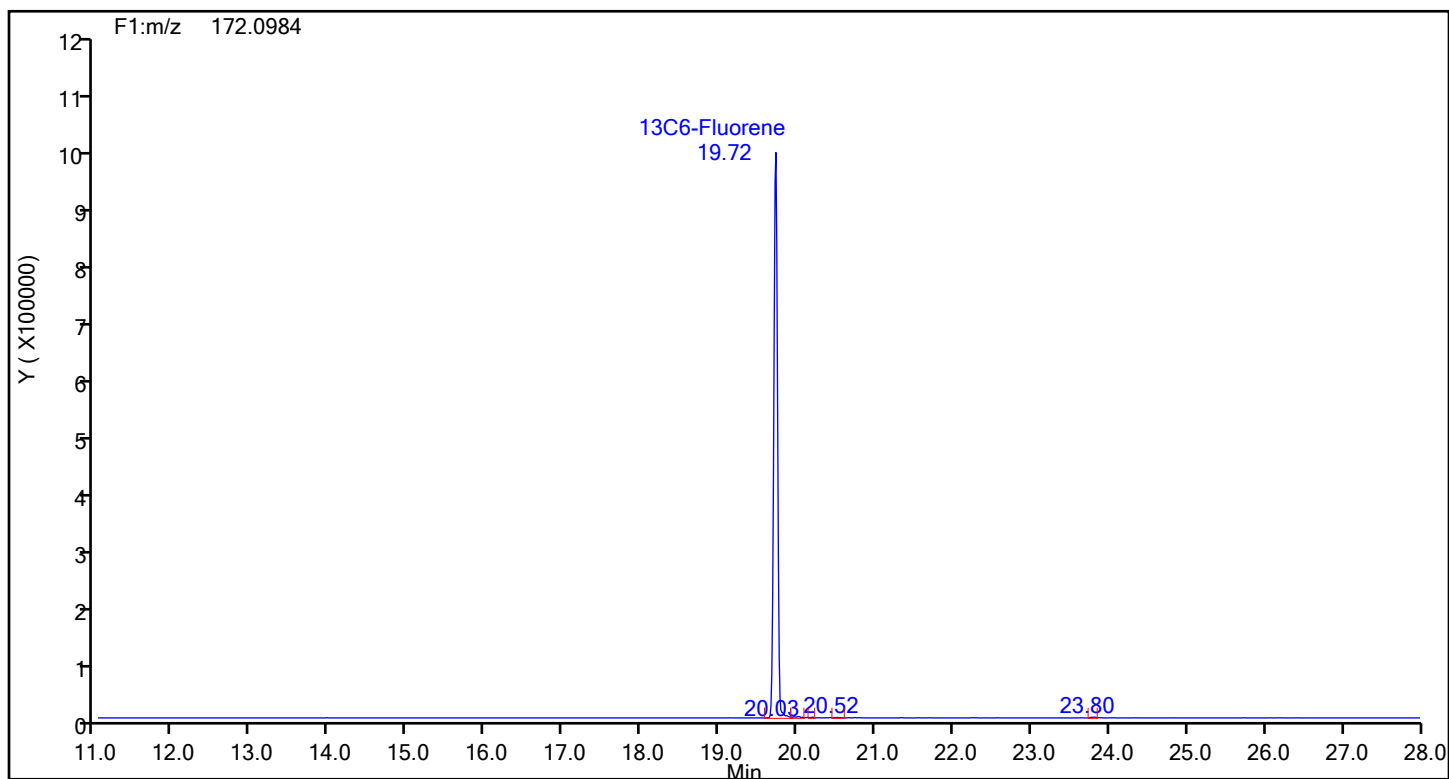
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Fluorene

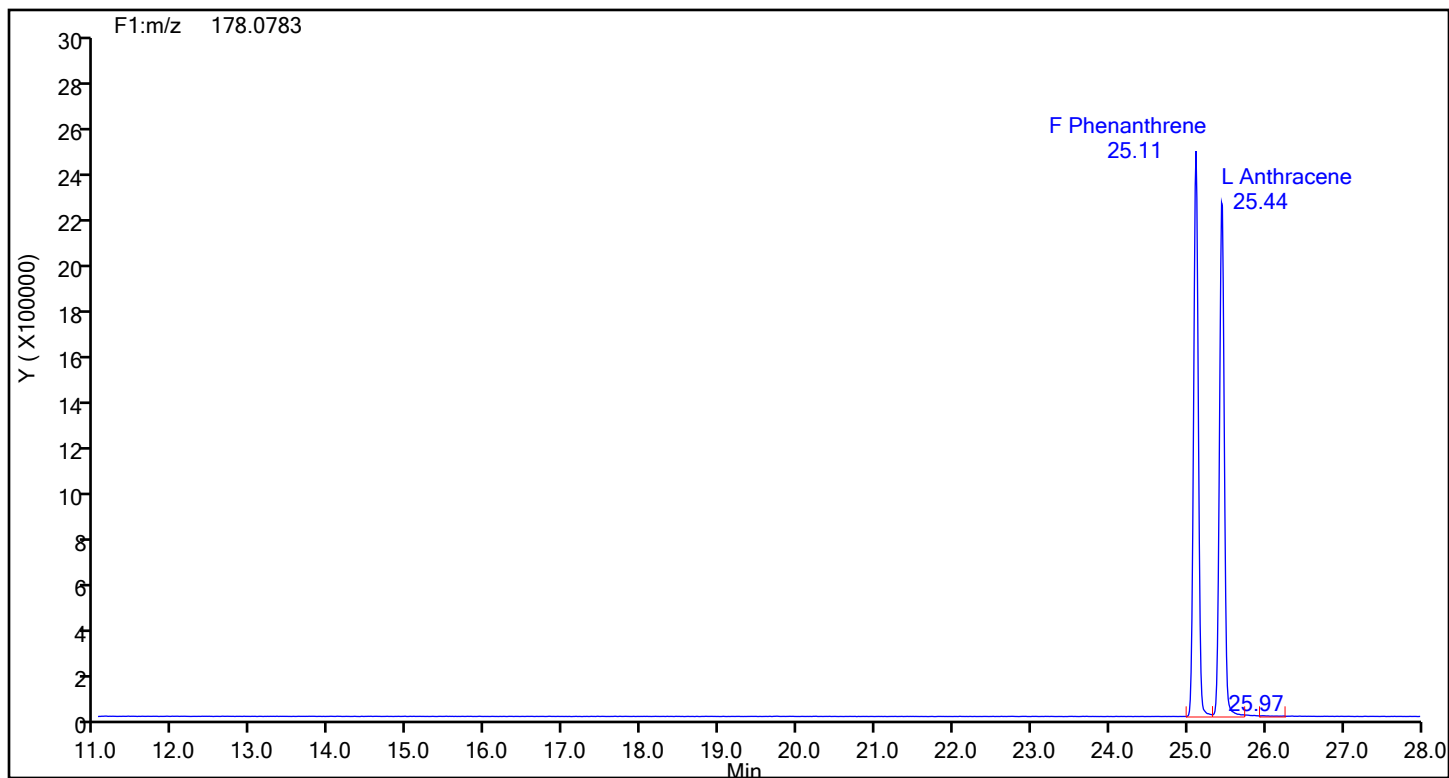


Fluorene Standards

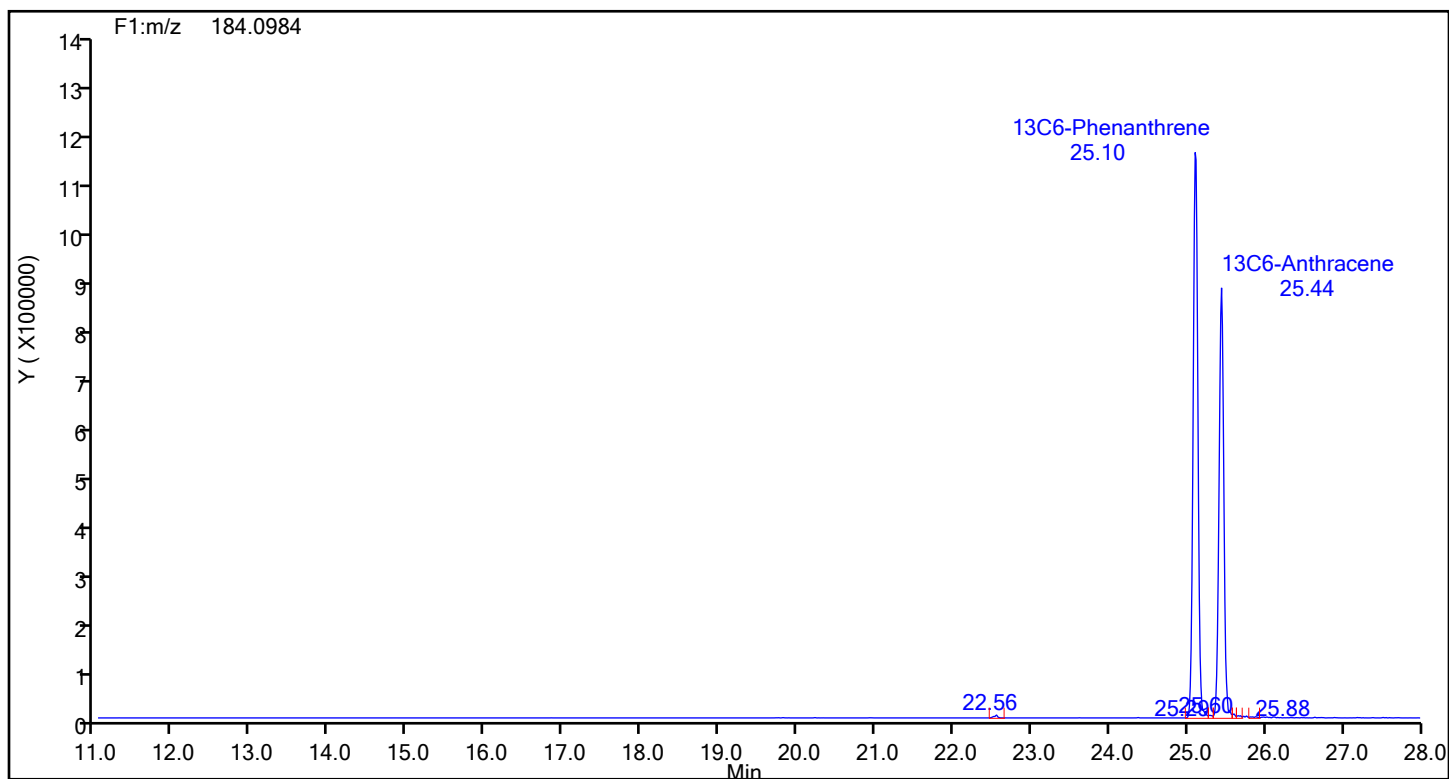


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Phenanthrene

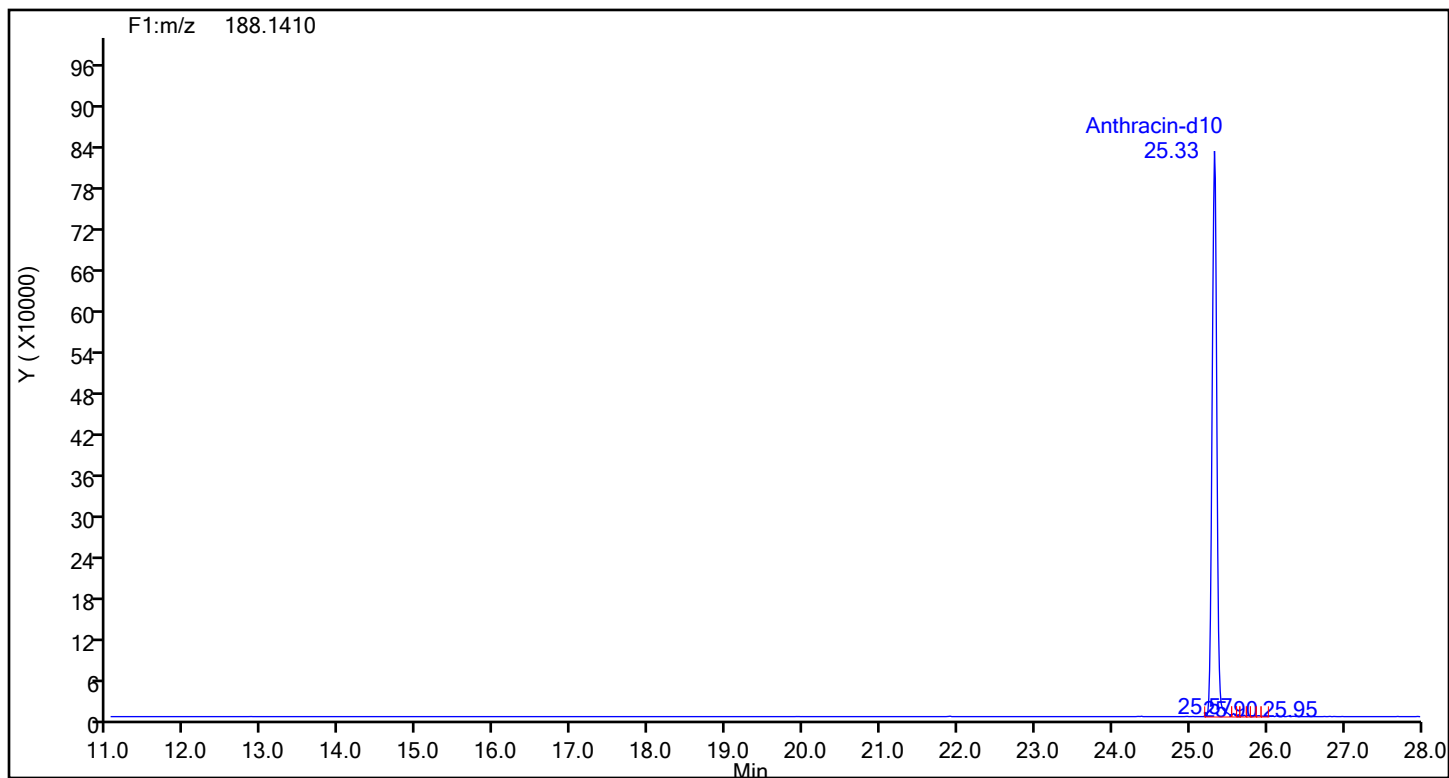


Phenanthrene Standards

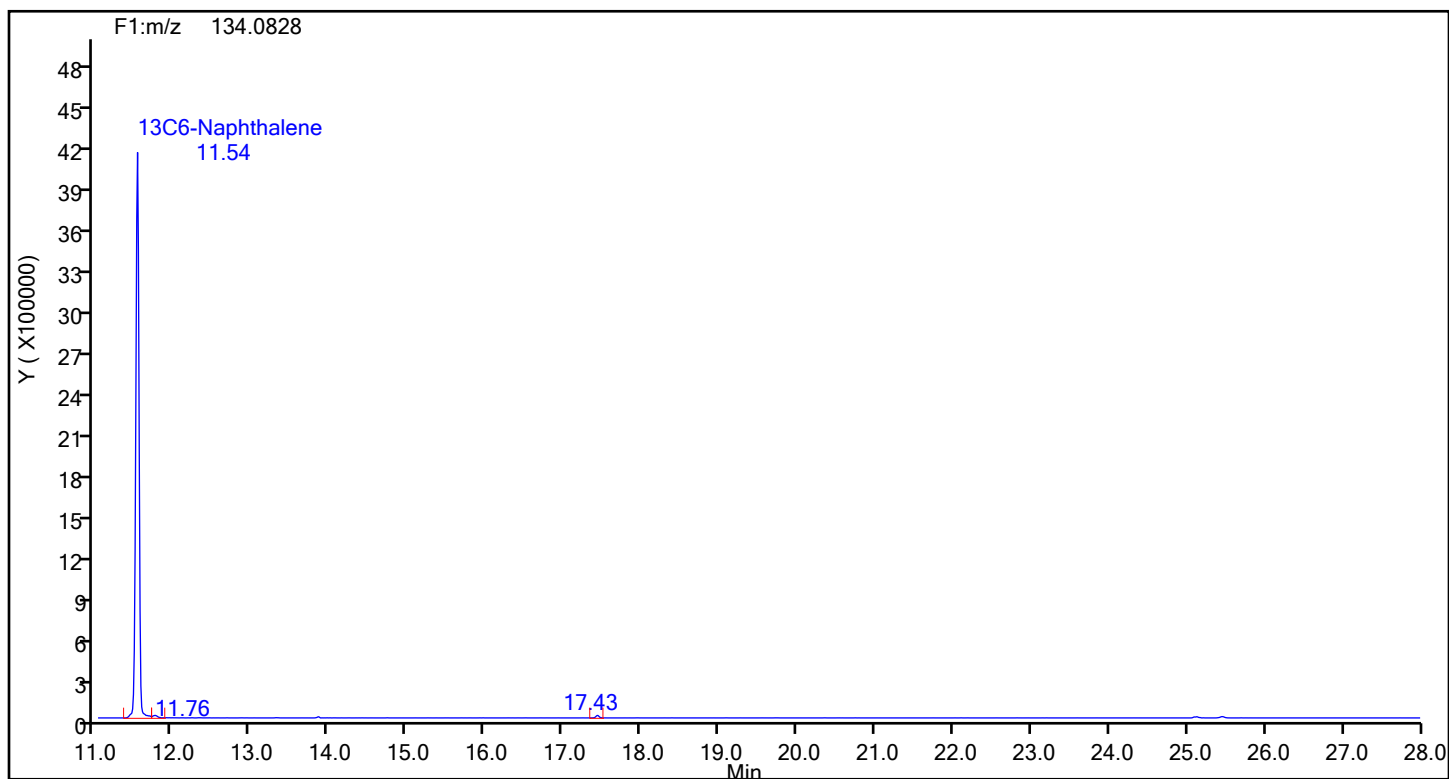


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Anthracin-d10

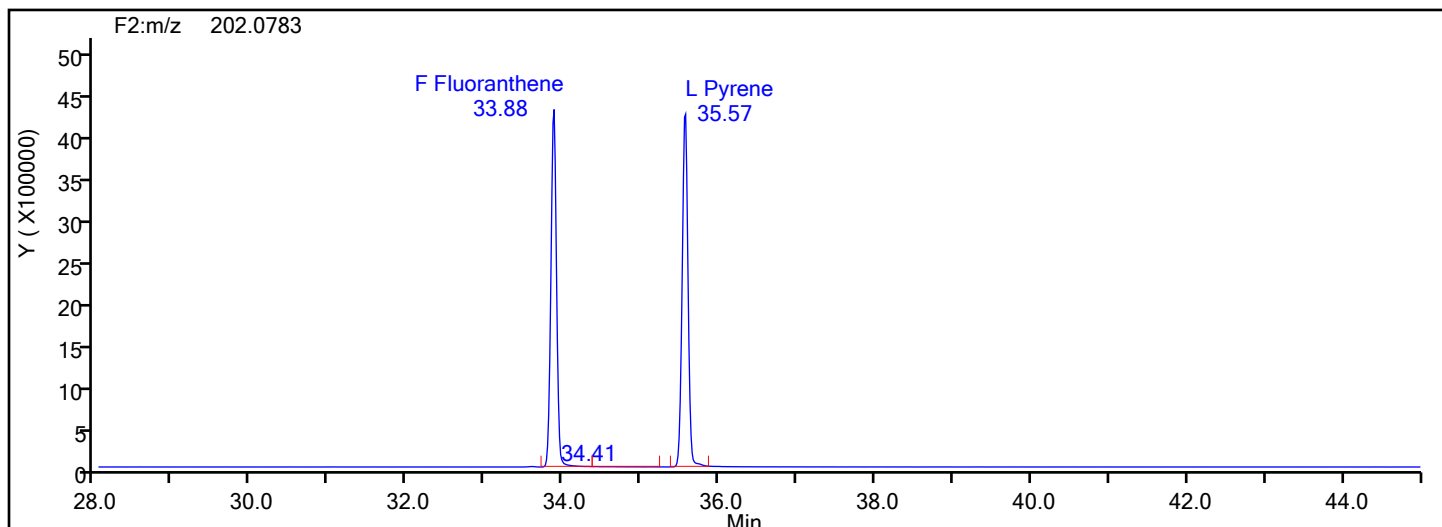


Anthracin-d10 Standards

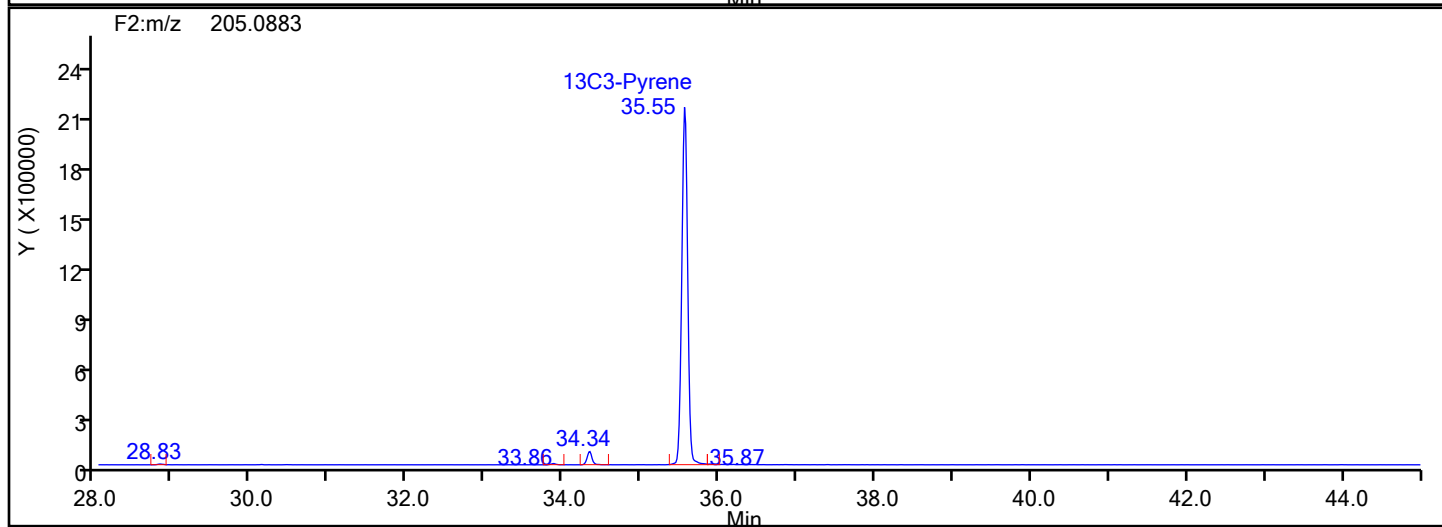
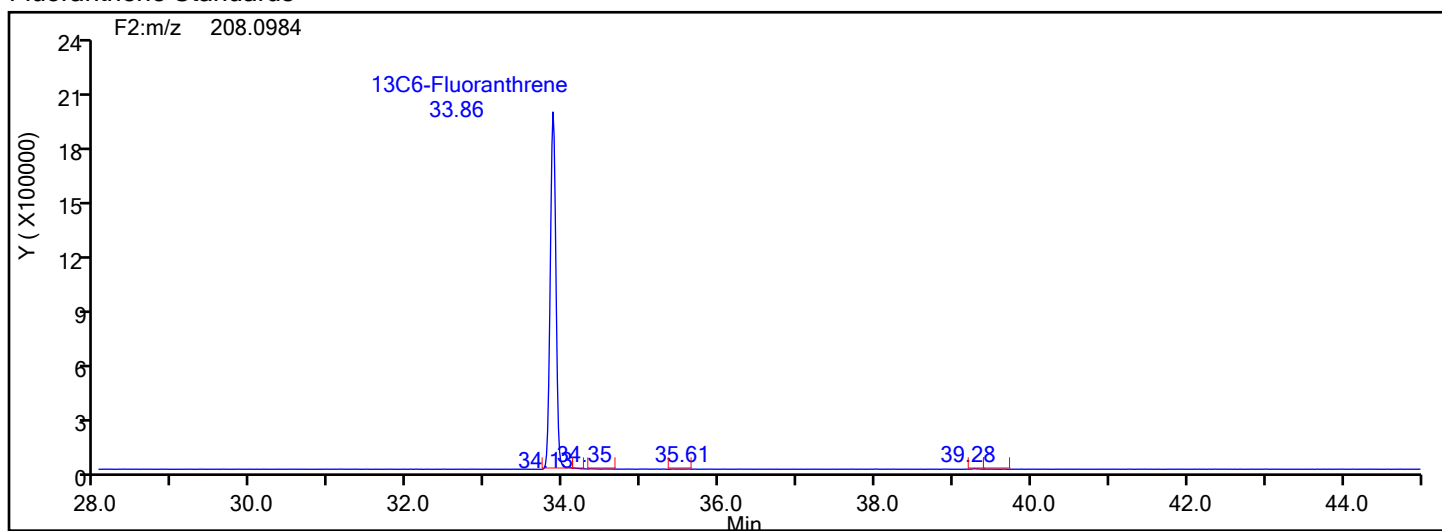


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Fluoranthene



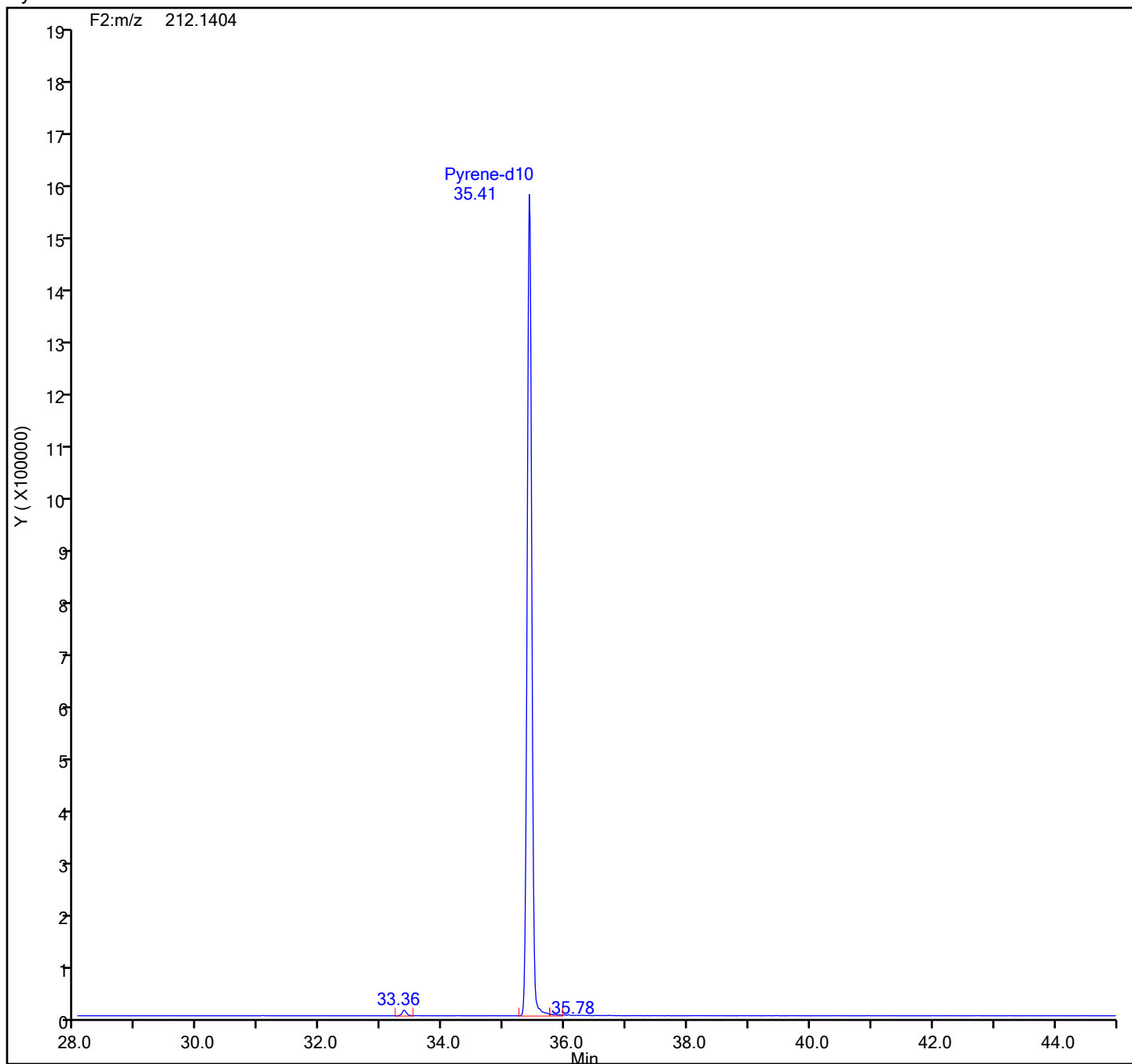
Fluoranthene Standards



Eurofins Knoxville

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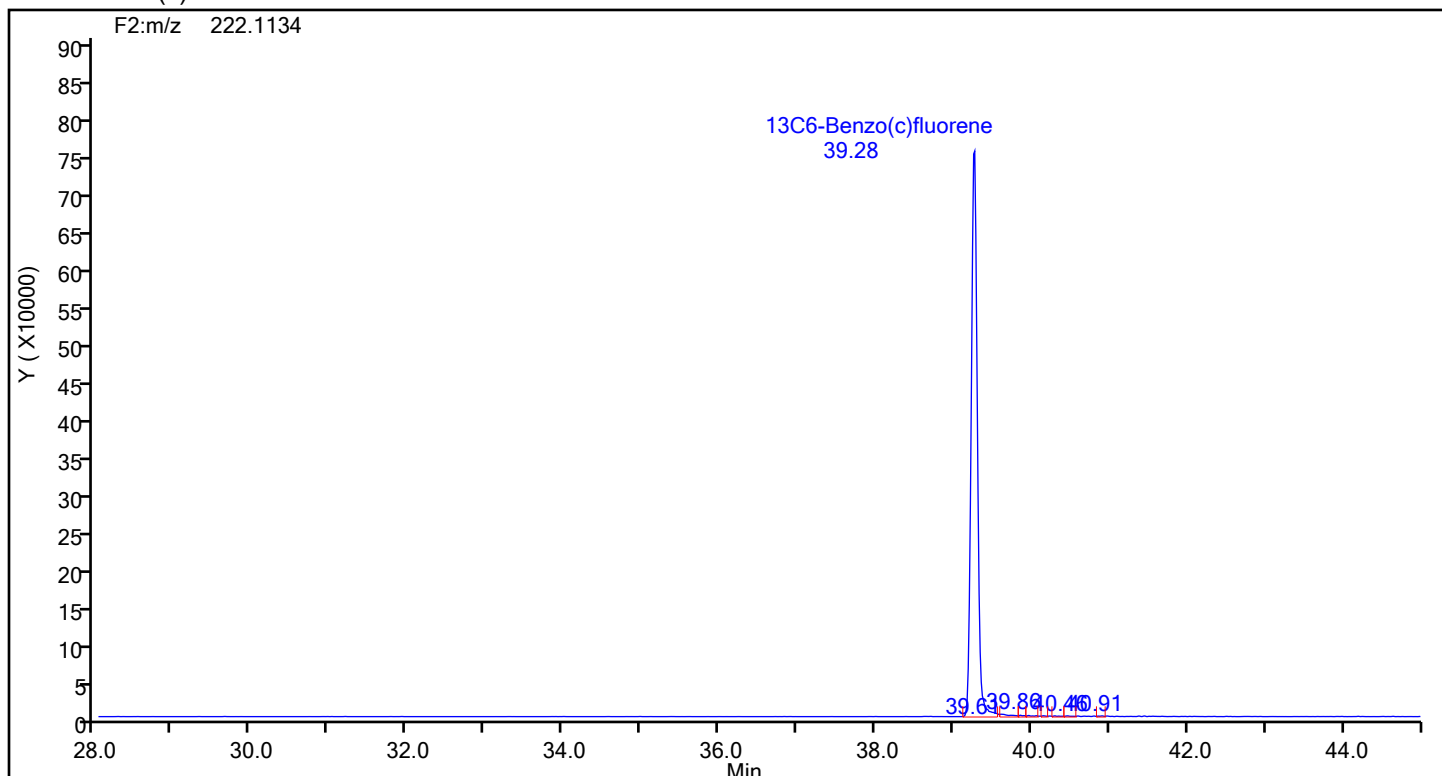
Pyrene-d10 Standards



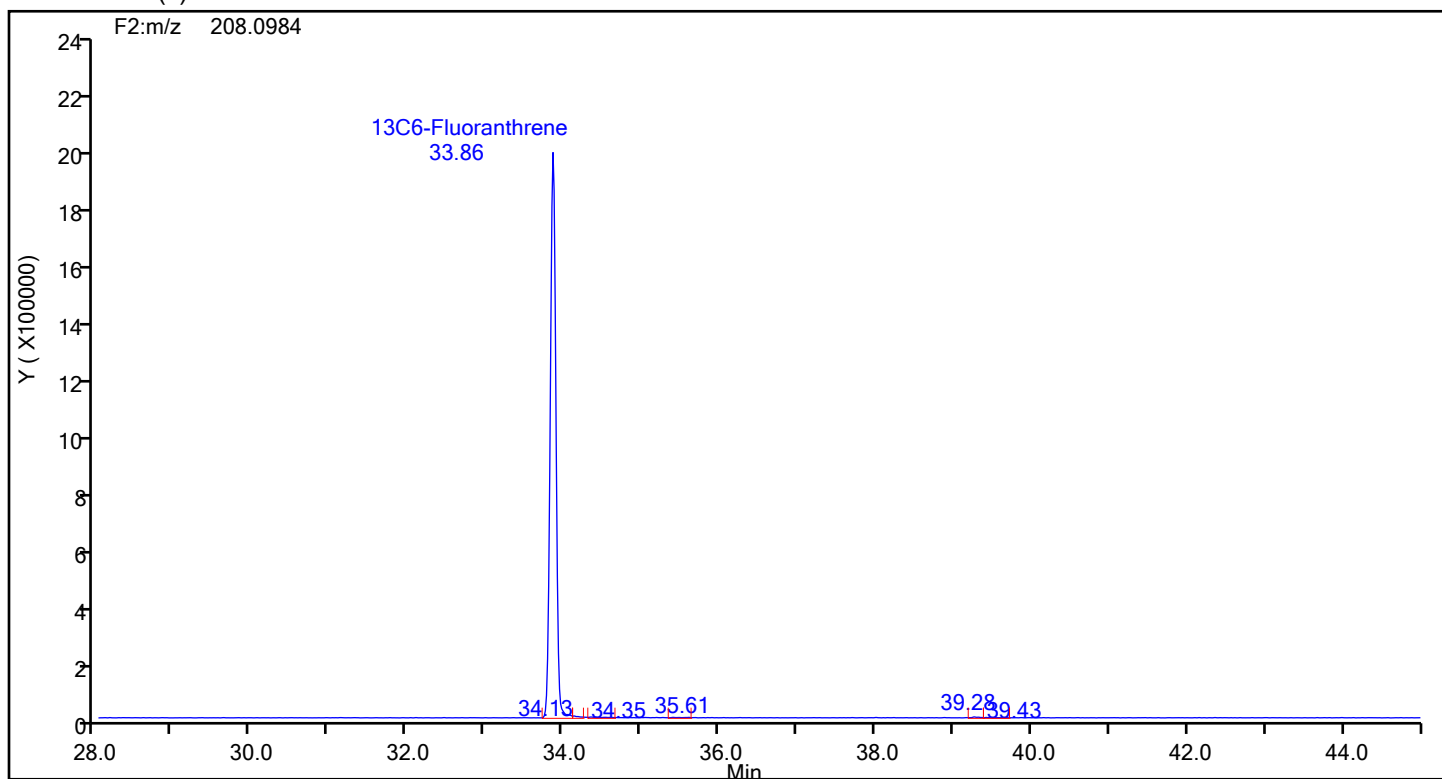
Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



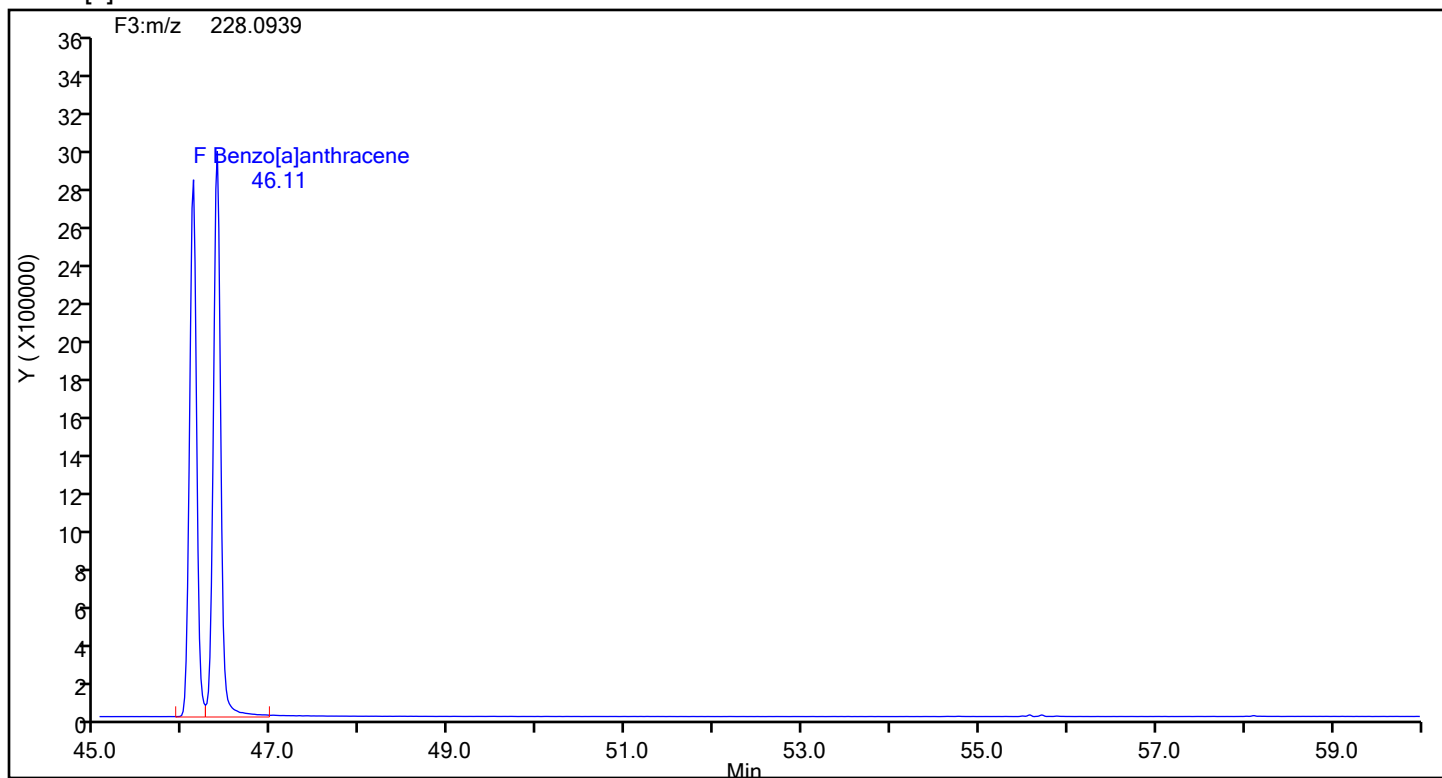
13C6-Benzo(c)fluorene Standards



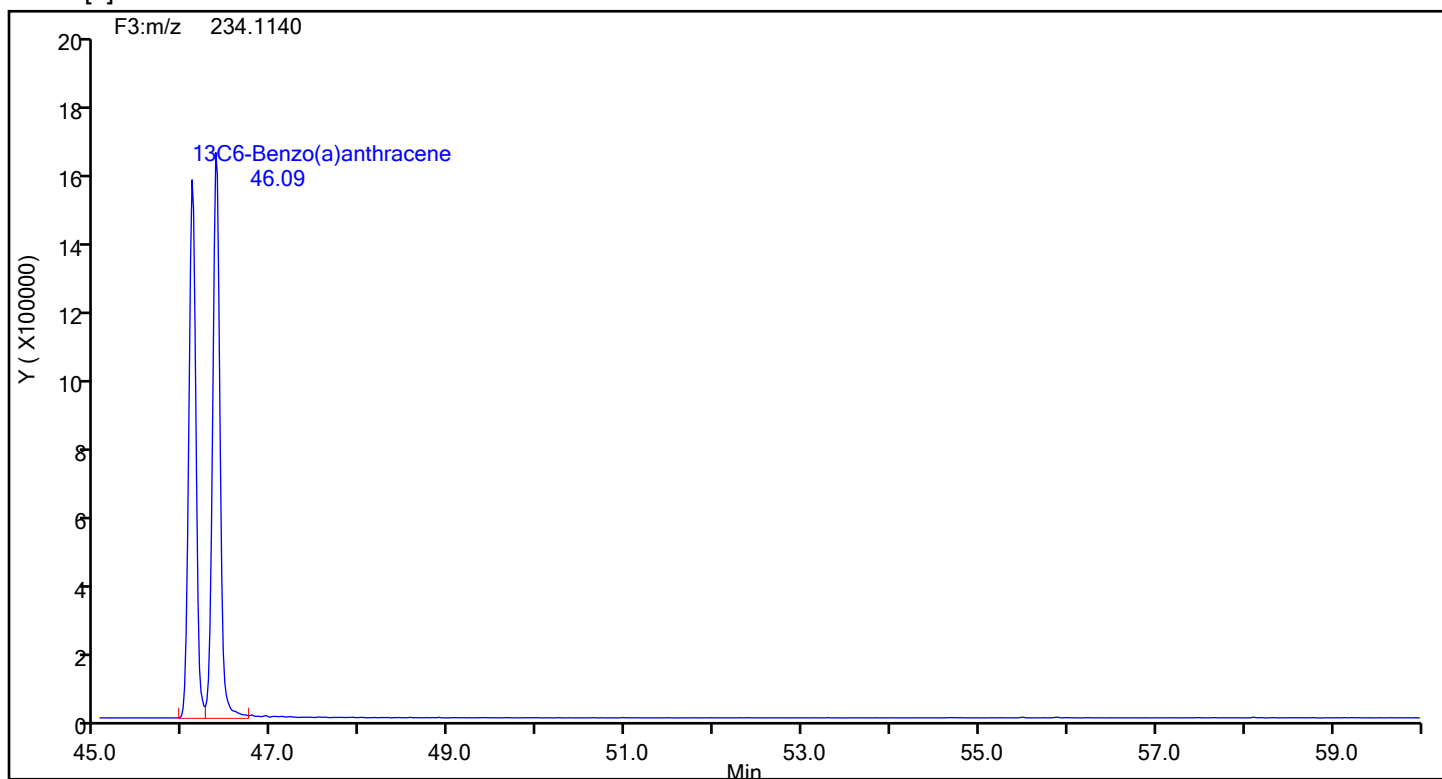
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



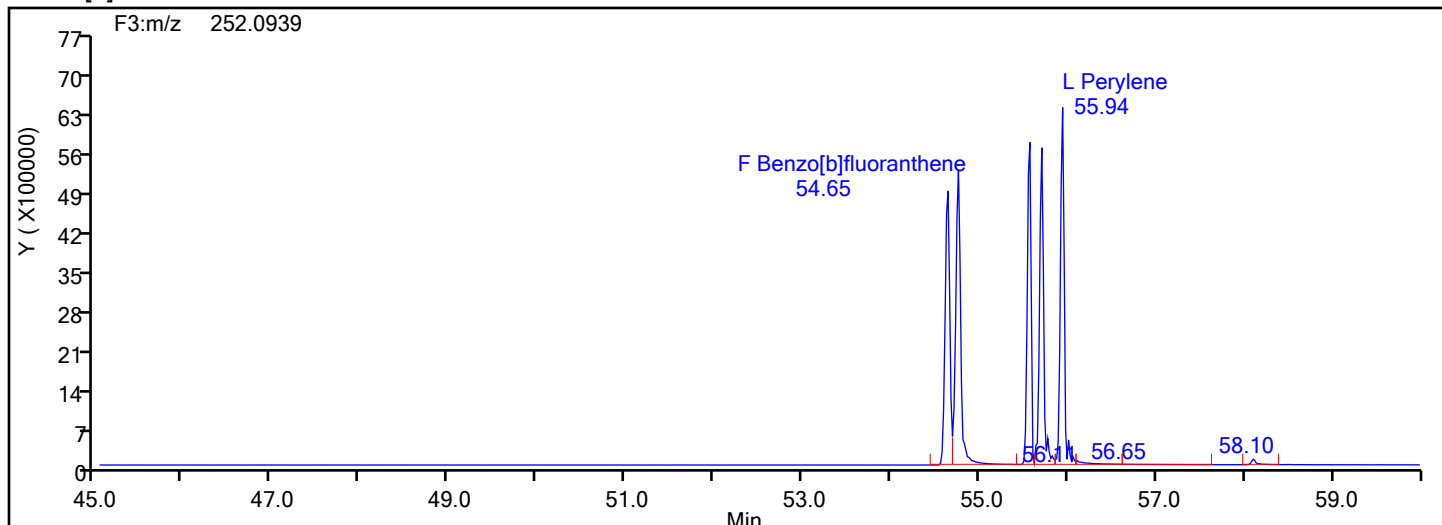
Benzo[a]anthracene Standards



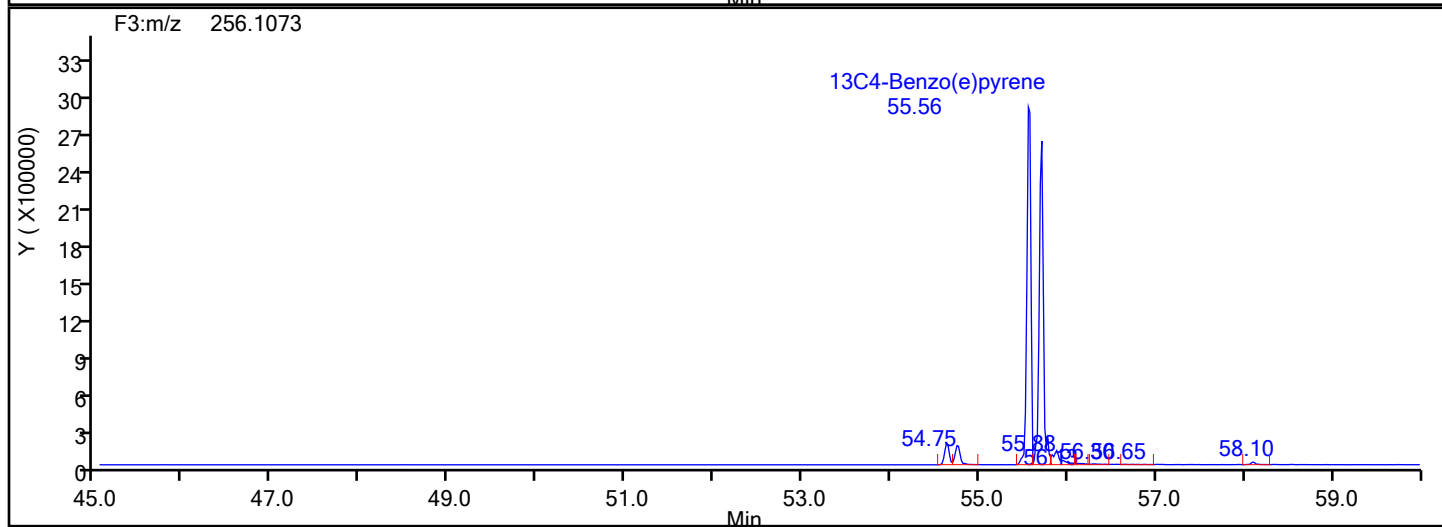
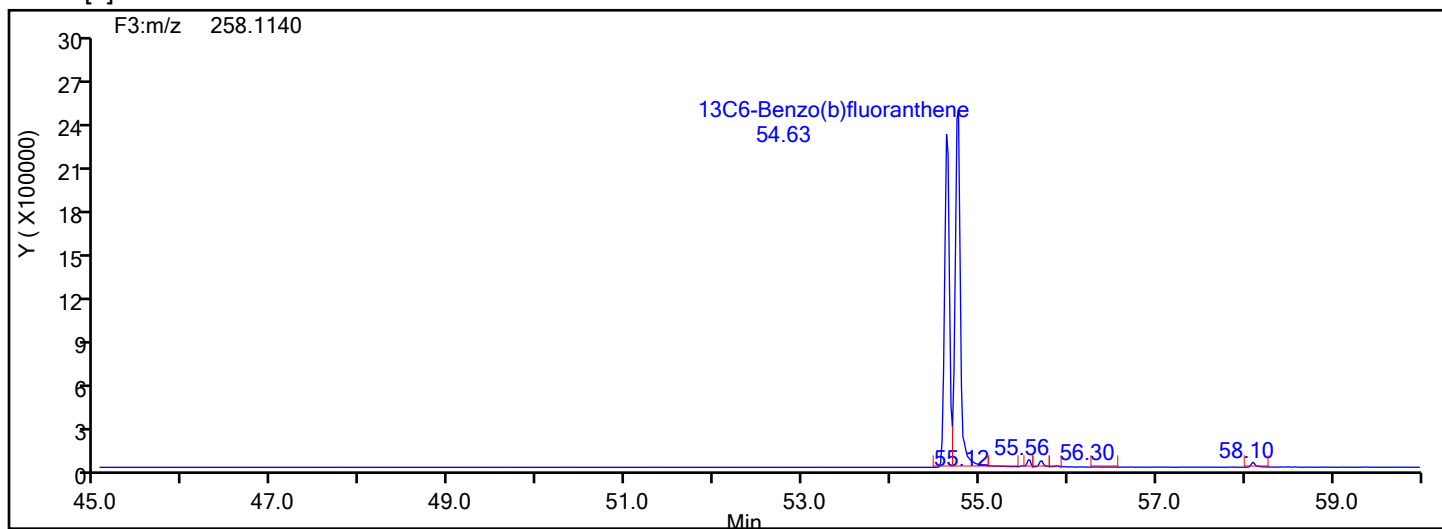
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



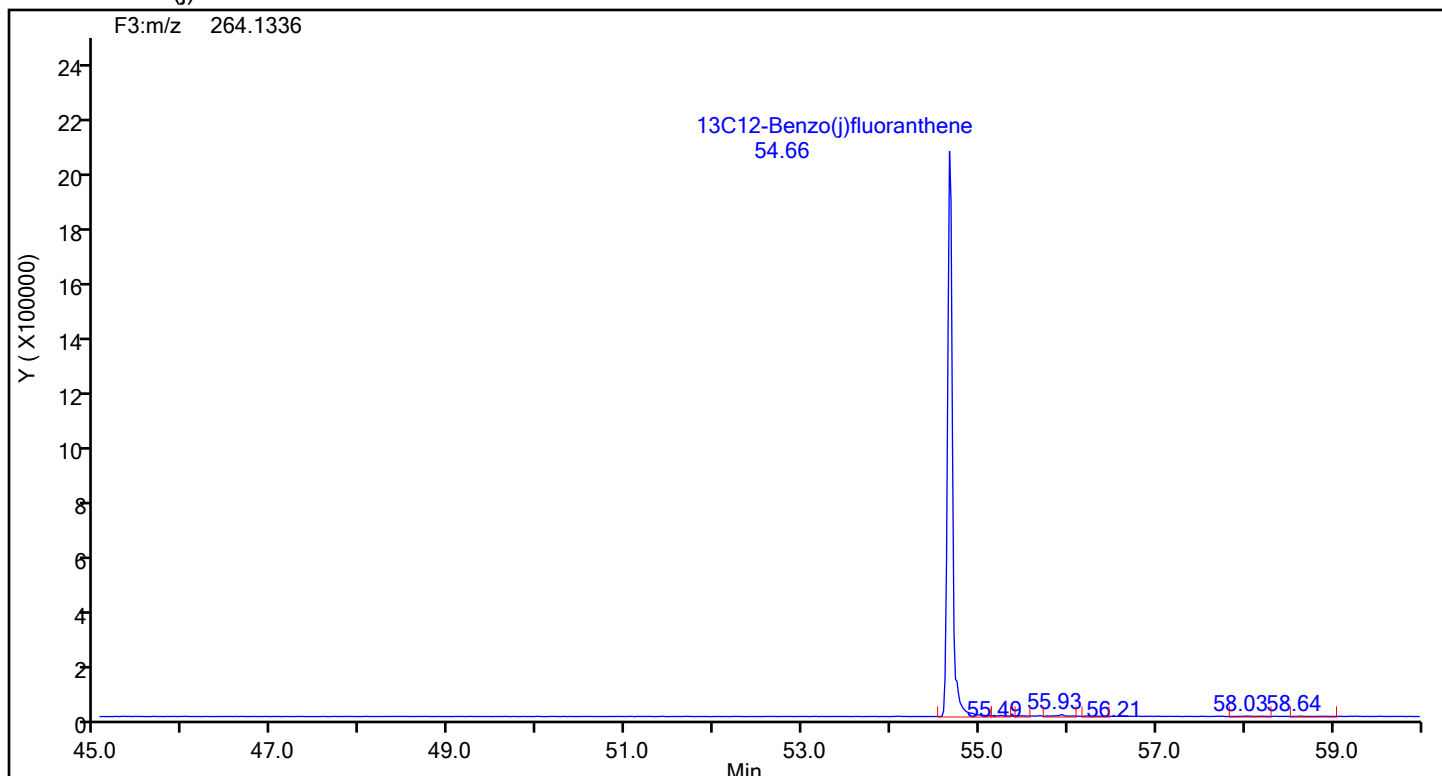
Benzo[b]fluoranthene Standards



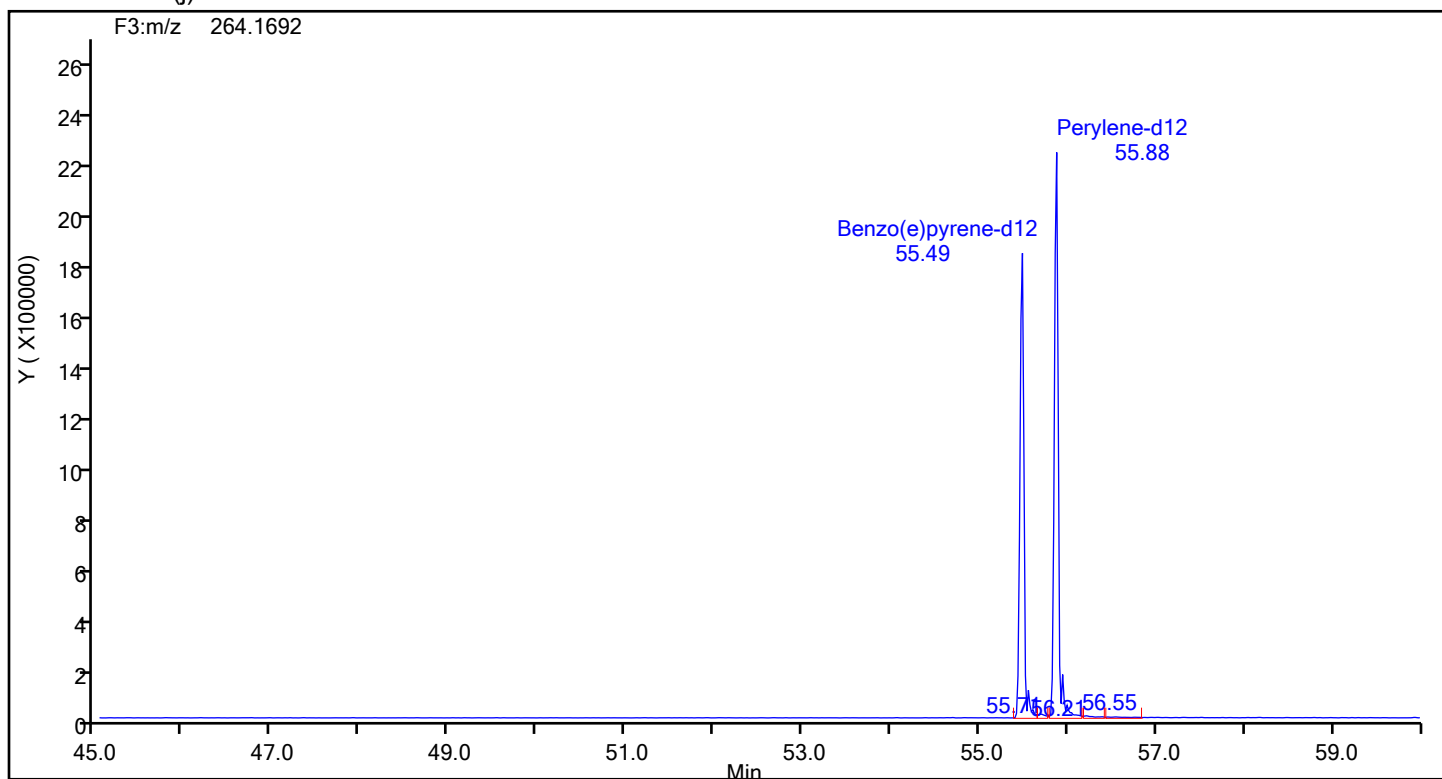
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



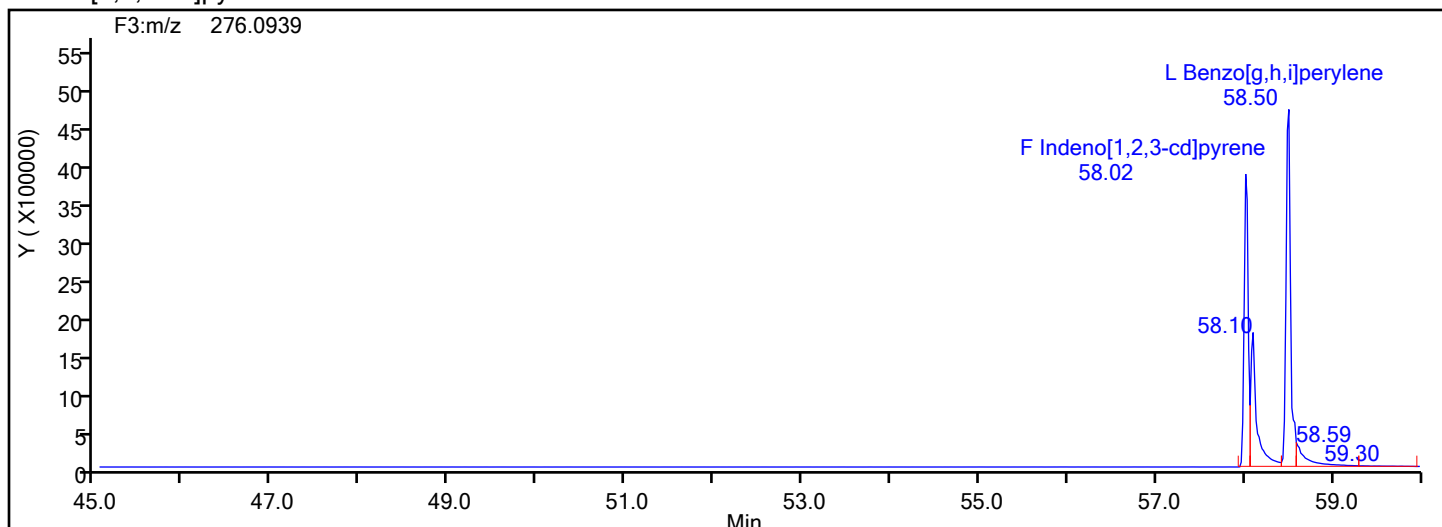
13C12-Benzo(j)fluoranthene Standards



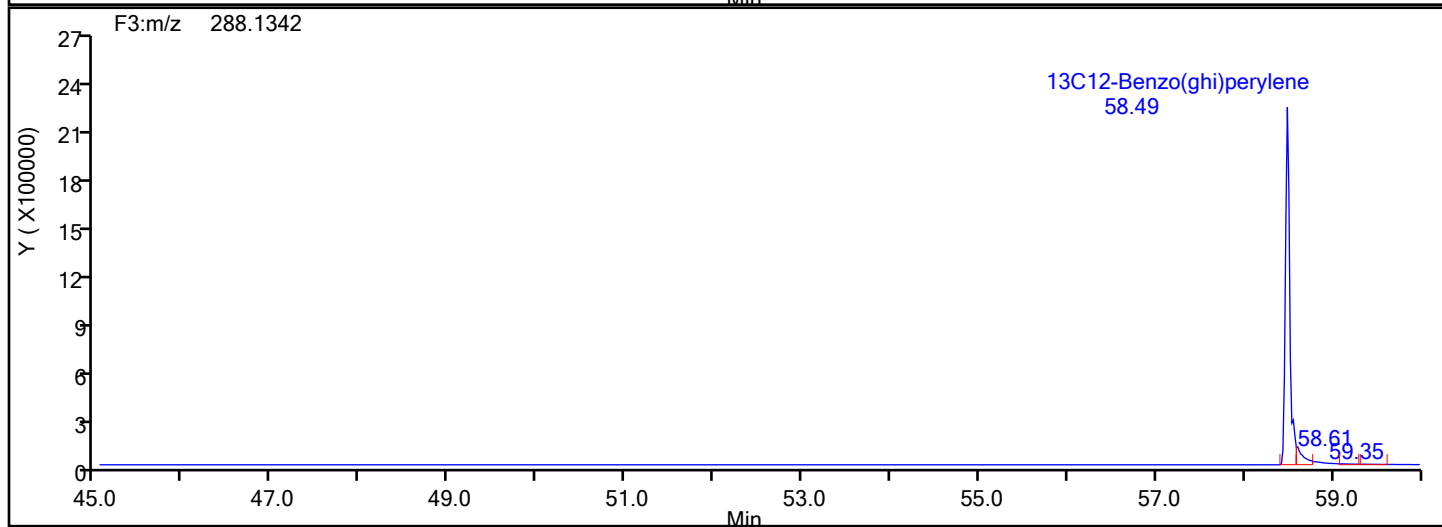
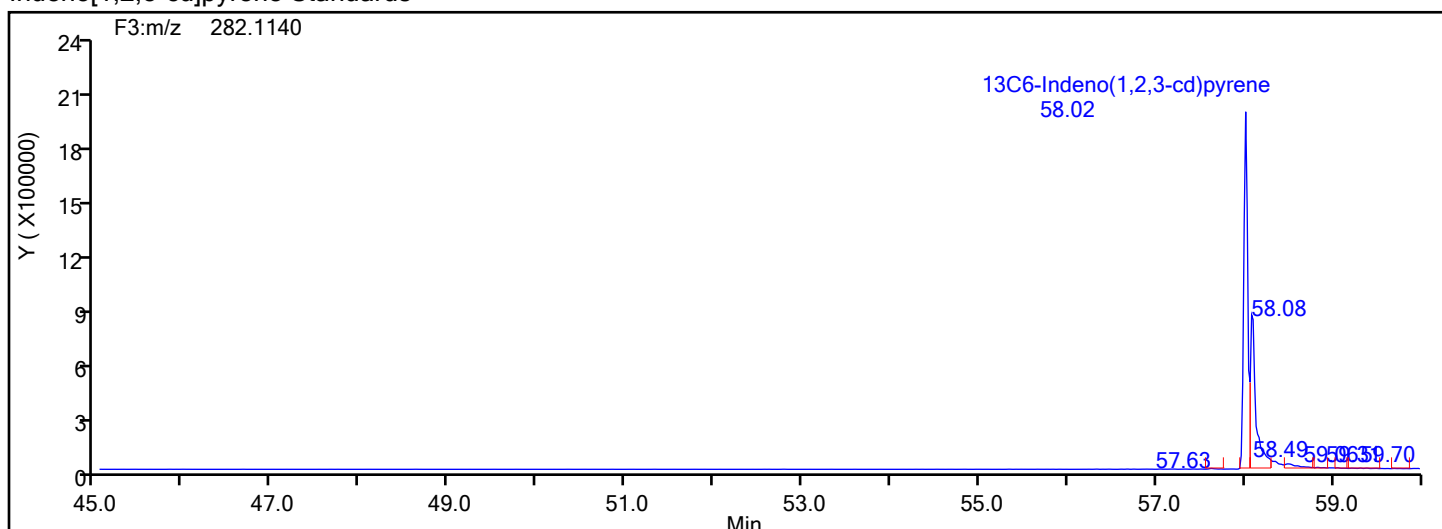
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

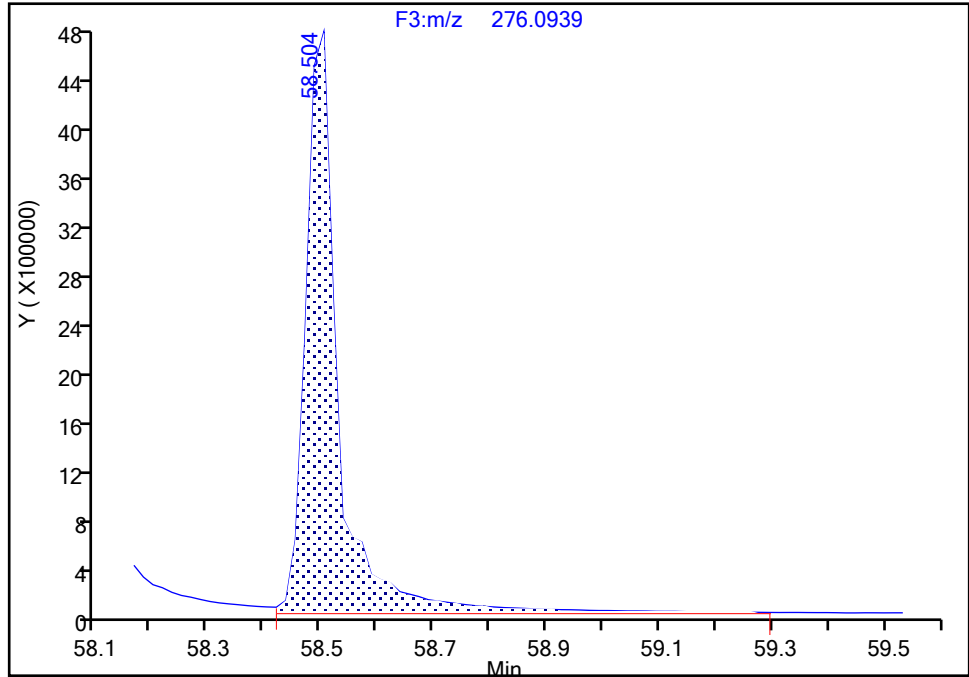
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d
Injection Date: 19-Jun-2024 23:00:00 Instrument ID: D3PAH
Lims ID: IC L7
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

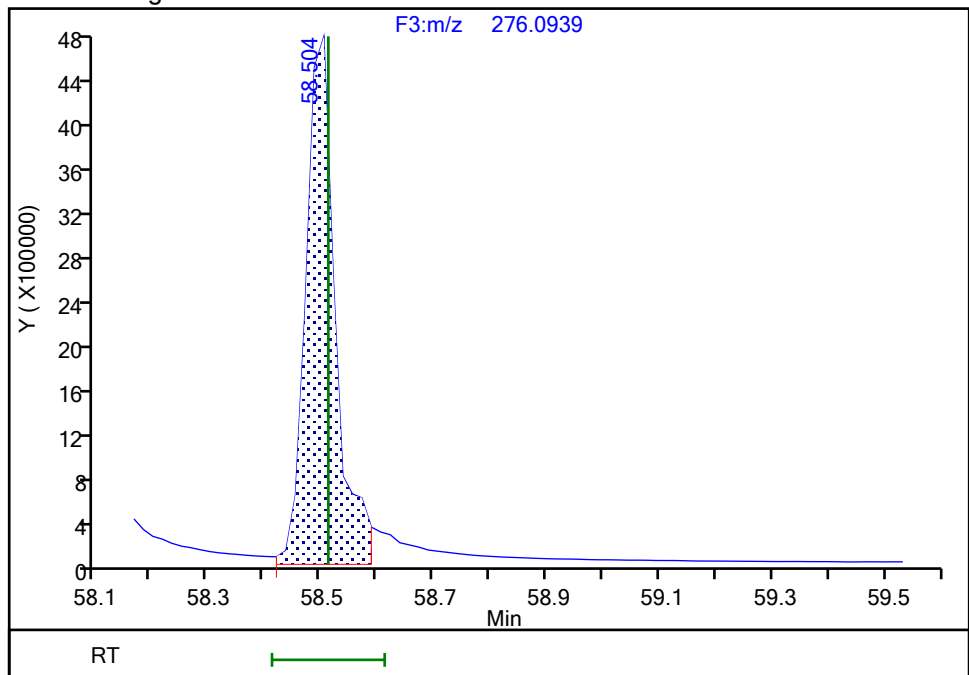
RT: 58.50
Area: 19808797
Amount: 202.6337
Amount Units: pg/ul

Processing Integration Results



RT: 58.50
Area: 17229589
Amount: 177.7182
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:32 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

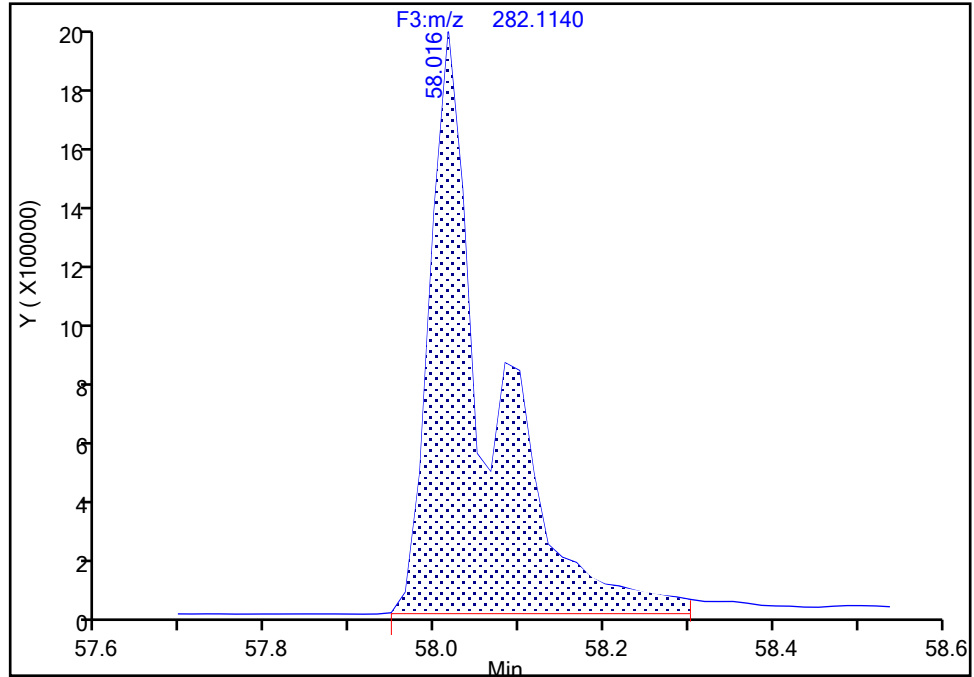
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic7.d
Injection Date: 19-Jun-2024 23:00:00 Instrument ID: D3PAH
Lims ID: IC L7
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

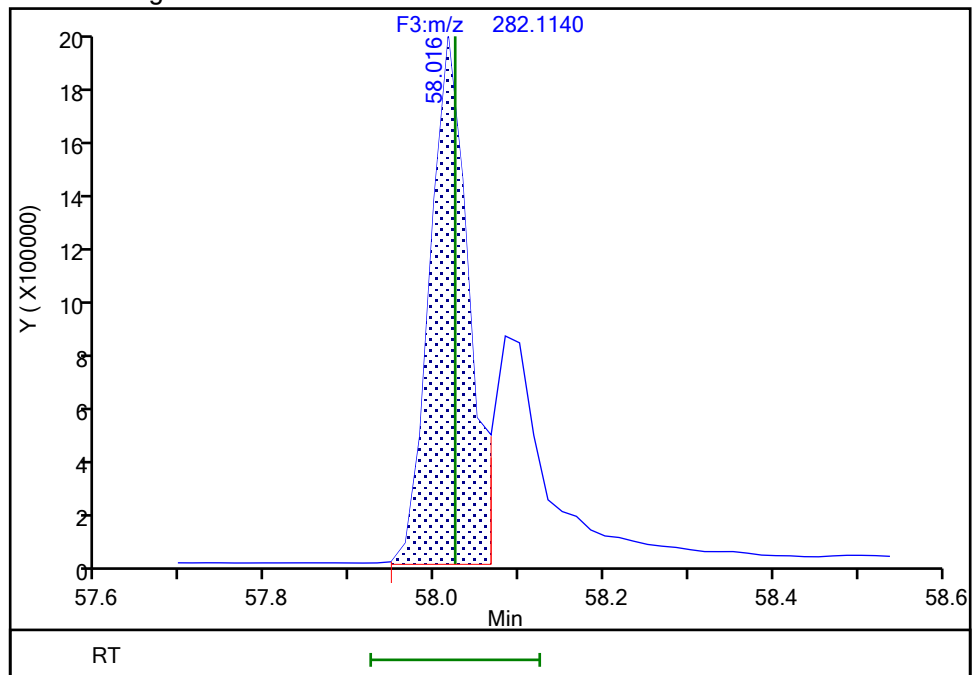
RT: 58.02
Area: 9726157
Amount: 154.3529
Amount Units: pg/ul

Processing Integration Results



RT: 58.02
Area: 6349503
Amount: 107.1454
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:58 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

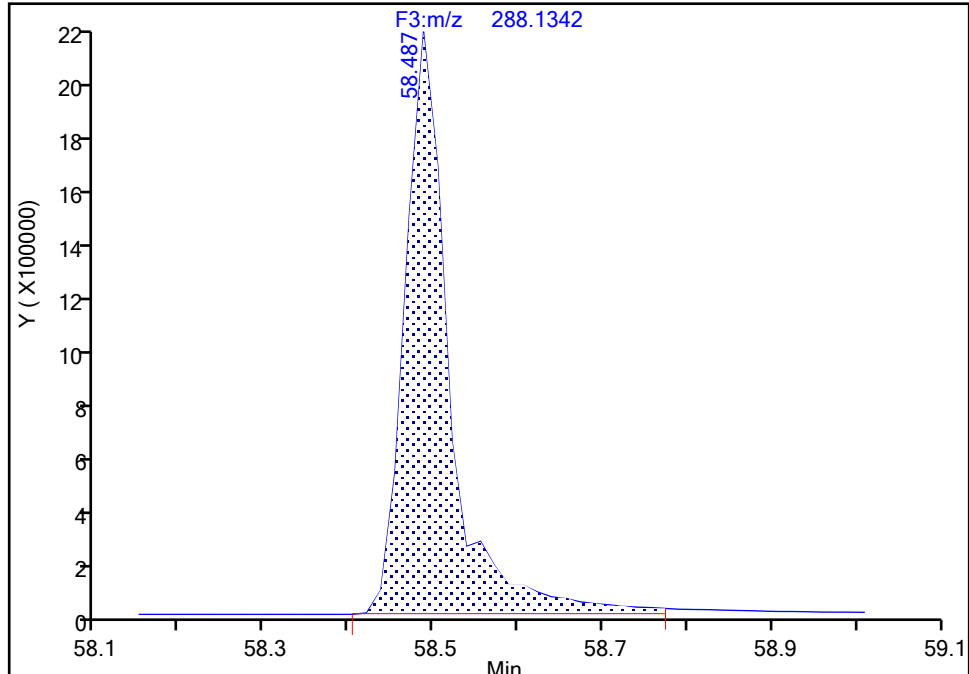
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic7.d
Injection Date: 19-Jun-2024 23:00:00 Instrument ID: D3PAH
Lims ID: IC L7
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

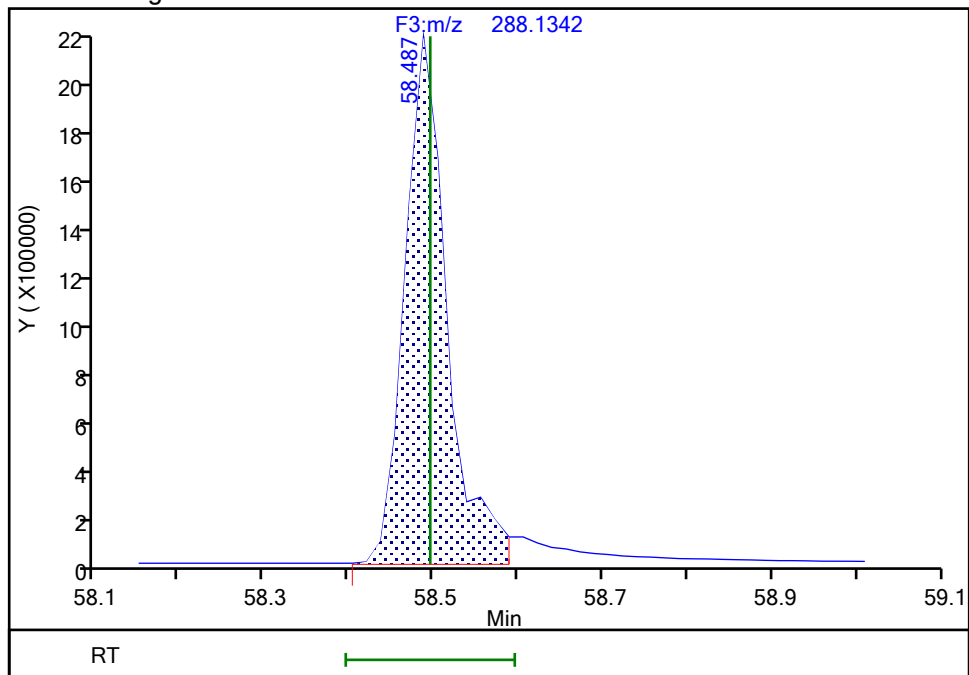
RT: 58.49
Area: 8100389
Amount: 107.2367
Amount Units: pg/ul

Processing Integration Results



RT: 58.49
Area: 7551974
Amount: 102.1435
Amount Units: pg/ul

Manual Integration Results



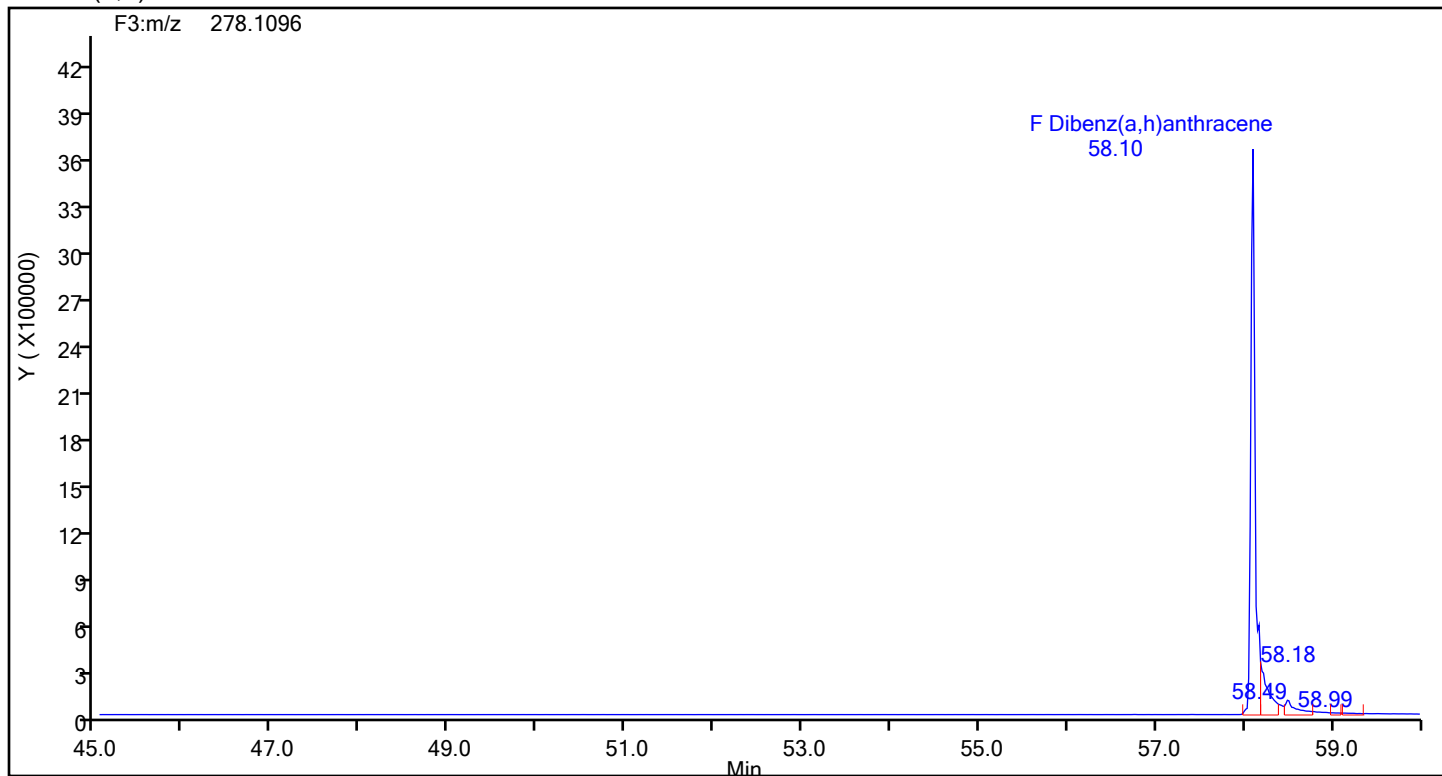
Reviewer: F9EE, 20-Jun-2024 09:38:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

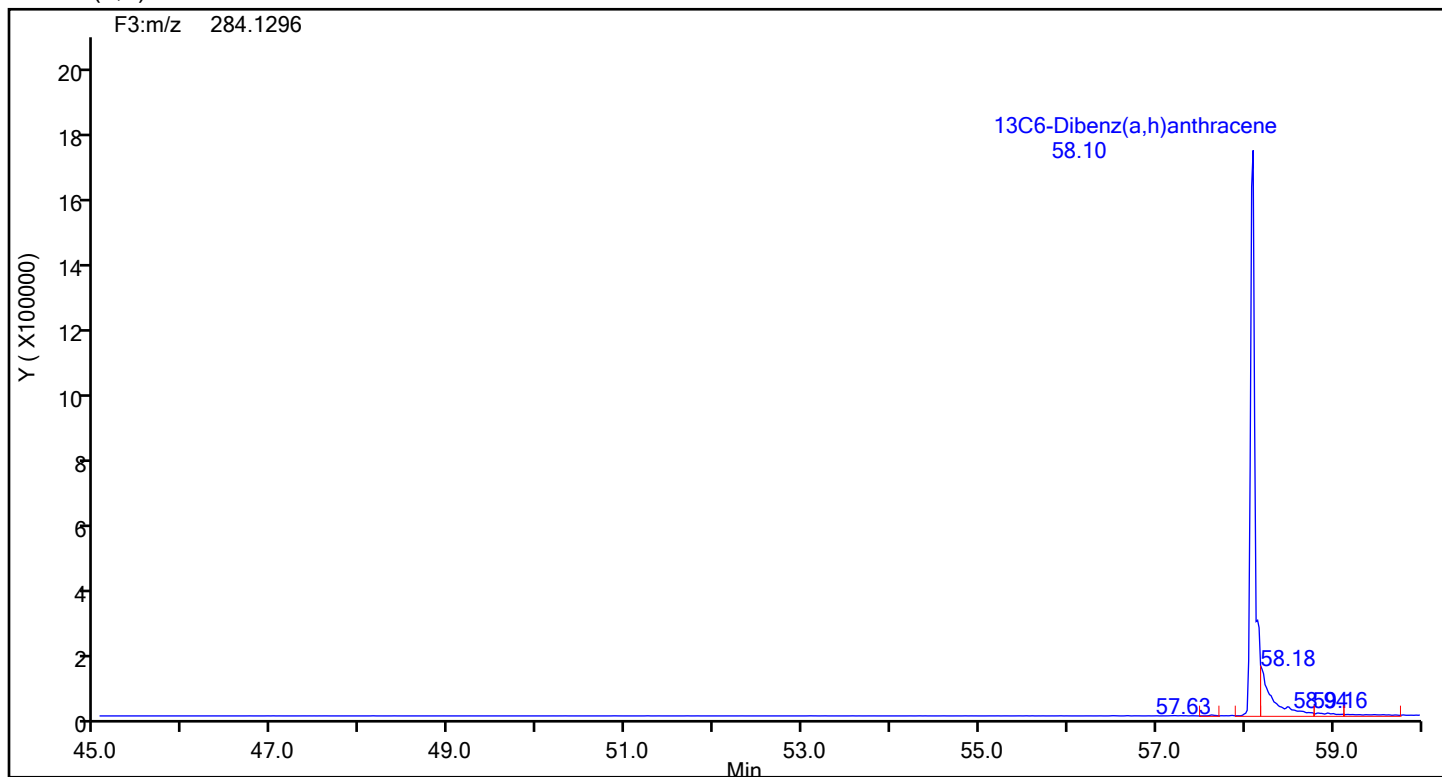
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Dibenz(a,h)anthracene



Dibenzo(a,h)anthracene Standards



Eurofins Knoxville

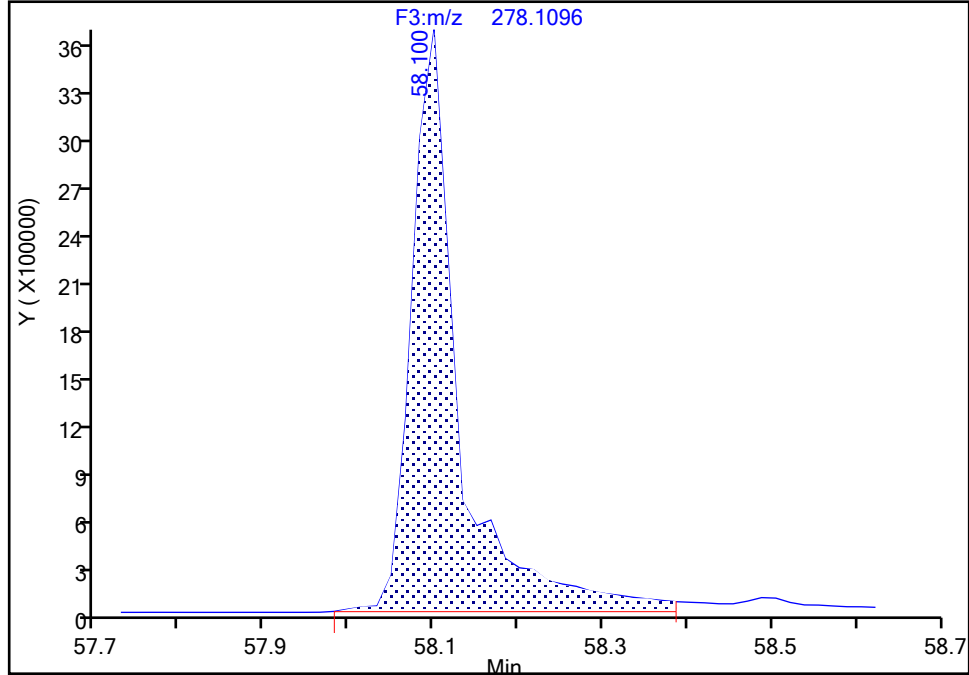
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d
Injection Date: 19-Jun-2024 23:00:00 Instrument ID: D3PAH
Lims ID: IC L7
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

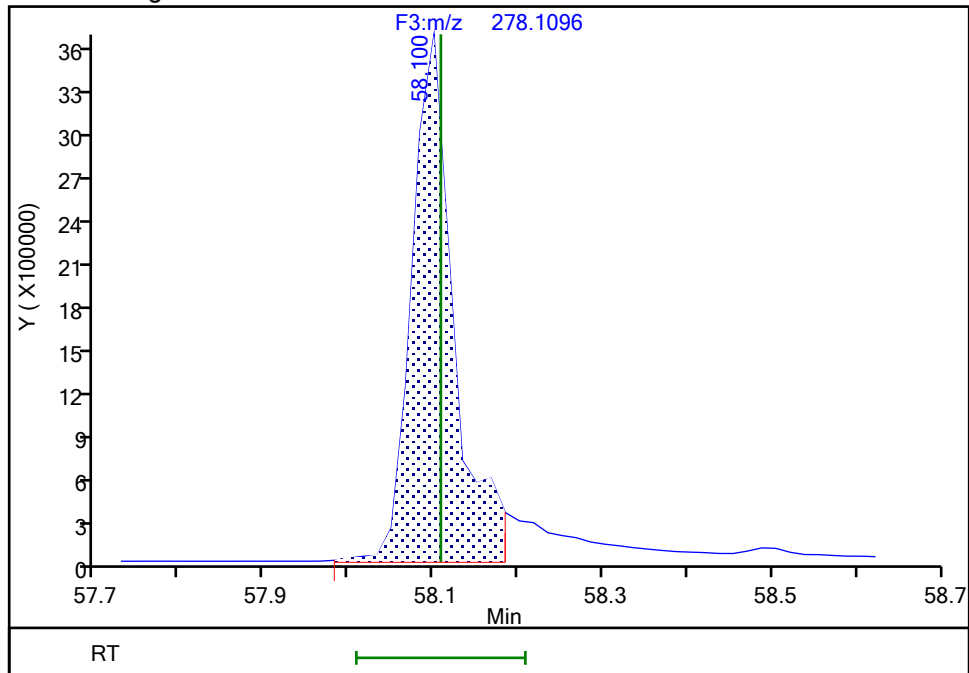
RT: 58.10
Area: 14258856
Amount: 204.9671
Amount Units: pg/ul

Processing Integration Results



RT: 58.10
Area: 12538607
Amount: 181.3847
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:20 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

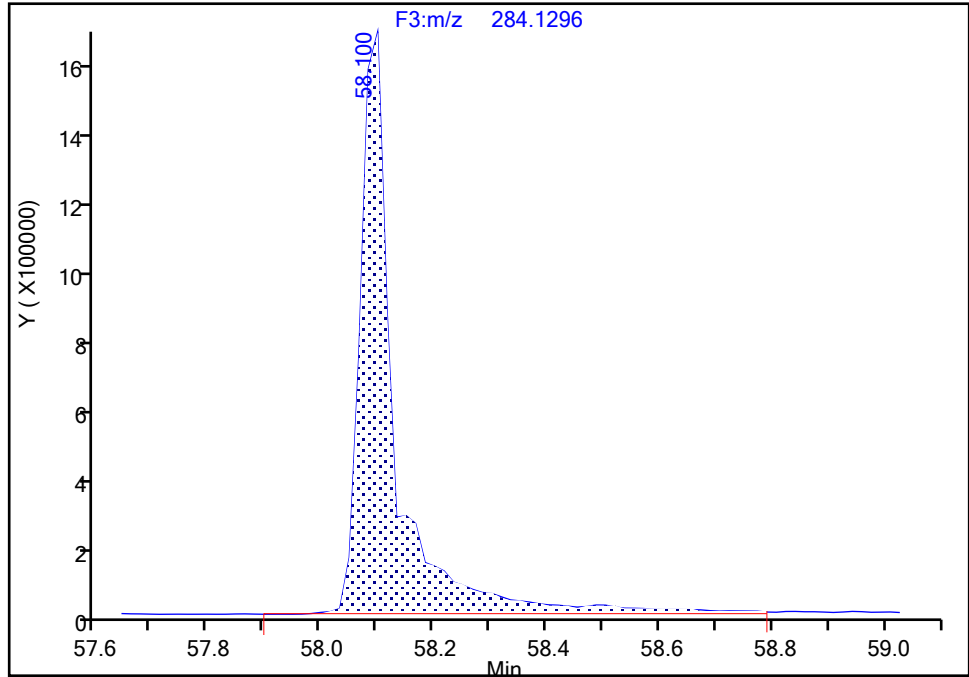
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\3240619ic7.d
Injection Date: 19-Jun-2024 23:00:00 Instrument ID: D3PAH
Lims ID: IC L7
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

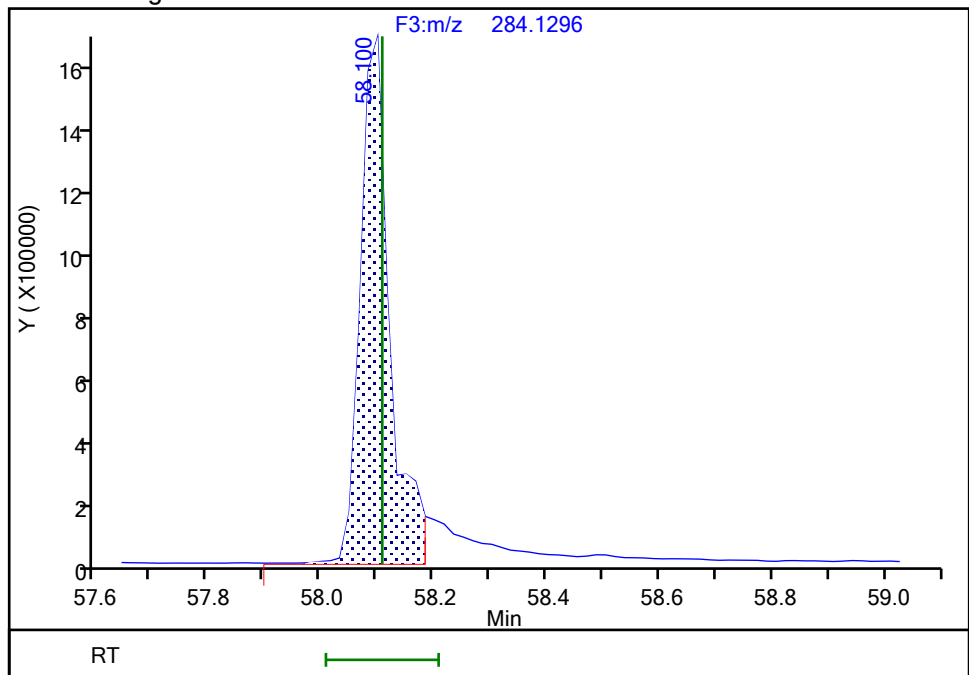
RT: 58.10
Area: 7350678
Amount: 113.6700
Amount Units: pg/ul

Processing Integration Results



RT: 58.10
Area: 6110020
Amount: 99.838282
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:14 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
 Lims ID: IC L8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 20-Jun-2024 00:04:00 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-008
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 20-Jun-2024 09:51:58 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:39:08

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	13369772		3.3746	100.6	100.6	0.005893	0.005893	101	
Naphthalene	11:33	66534766		1.2893	386.0	386.0	0.0323	0.0323	96.50	
D 13C6-2-Methylnaphthalene	13:51	6439882		1.6031	102.0	102.0	0.000322	0.000322	102	
2-Methylnaphthalene	13:52	31544481		1.2786	383.1	383.1	0.0162	0.0162	95.78	
D 13C6-Acenaphthylene	16:45	6765535		1.6520	104.0	104.0	0.000535	0.000535	104	
Acenaphthylene	16:45	37234784		2.3661	389.6	389.6	0.0219	0.0219	97.40	
* Acenaphthene-d10	17:19	3938389		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	4039150		0.9792	104.7	104.7	0.001504	0.001504	105	
Acenaphthene	17:26	19367968		1.2697	377.7	377.7	0.0244	0.0244	94.42	
D 13C6-Fluorene	19:44	3801144		0.8898	108.5	108.5	0.000579	0.000579	108	
Fluorene	19:44	18232964		1.2532	382.8	382.8	0.0243	0.0243	95.69	
D 13C6-Phenanthrene	25:07	5572957		0.5724	104.4	104.4	0.004506	0.004506	104	
Phenanthrene	25:07	23294554		1.1044	378.5	378.5	0.0285	0.0285	94.62	
\$ Anthracin-d10	25:20	4116582		0.4257	103.7	103.7	0.001346	0.001346	104	
D 13C6-Anthracene	25:27	4474470		0.4523	106.1	106.1	0.005702	0.005702	106	
Anthracene	25:27	22947314		1.3586	377.5	377.5	0.0298	0.0298	94.37	
D 13C6-Fluoranthrene	33:52	11997910		1.1994	107.3	107.3	0.0154	0.0154	107	
Fluoranthrene	33:53	53709863		1.1513	388.8	388.8	0.0151	0.0151	97.21	
* Pyrene-d10	35:25	9327125		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	13356986		1.3512	106.0	106.0	0.0107	0.0107	106	
Pyrene	35:34	54662936		1.0652	384.2	384.2	0.0155	0.0155	96.05	
\$ 13C6-Benzo(c)fluorene	39:17	4761886		0.5136	99.4	99.4	0.002790	0.002790	99.41	
D 13C6-Benzo(a)anthracene	46:07	10694535		1.5189	102.0	102.0	0.0121	0.0121	102	
Benzo[a]anthracene	46:07	39547814		0.9739	379.7	379.7	0.0317	0.0317	94.93	
D 13C6-Chrysene	46:23	11695295		1.6287	104.0	104.0	0.0113	0.0113	104	
Chrysene	46:23	43785996		0.9815	381.5	381.5	0.0300	0.0300	95.37	
D 13C6-Benzo(b)fluoranthene	54:39	10435051		1.4621	103.4	103.4	0.000791	0.000791	103	
Benzo[b]fluoranthene	54:39	45422181		1.1249	387.0	387.0	0.005821	0.005821	96.74	
\$ 13C12-Benzo(j)fluoranthene	54:41	9891565		1.3558	105.7	105.7	0.0120	0.0120	106	
D 13C6-Benzo(k)fluoranthene	54:46	12917530		1.7507	106.9	106.9	0.000661	0.000661	107	
Benzo[k]fluoranthene	54:46	55519685		1.1271	381.3	381.3	0.005000	0.005000	95.33	
* Benzo(e)pyrene-d12	55:30	6903874		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:35	11723054		1.6368	103.7	103.7	0.0104	0.0104	104	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	45463447		1.0013	387.3	387.3	0.004696	0.004696	96.83	
Benzo[a]pyrene	55:43	48994654		1.1130	390.7	390.7	0.004751	0.004751	97.67	
D 13C4-Benzo(a)pyrene	55:43	11267474		1.5508	105.2	105.2	0.0109	0.0109	105	
D Perylene-d12	55:53	8439141		1.1917	102.6	102.6	0.0125	0.0125	103	
Perylene	55:57	50605936		1.4307	419.1	419.1	0.004749	0.004749	105	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	7511958		1.0218	106.5	106.5	0.007788	0.007788	106	
Indeno[1,2,3-cd]pyrene	58:02	31522628		1.1249	373.0	373.0	0.006078	0.006078	93.26	
D 13C6-Dibenz(a,h)anthracene	58:06	7695778		1.0553	105.6	105.6	0.004384	0.004384	106	M
Dibenz(a,h)anthracene	58:06	33420949		1.1314	383.8	383.8	0.005059	0.005059	95.96	M
D 13C12-Benzo(ghi)perylene	58:29	9250572		1.2749	105.1	105.1	0.002903	0.002903	105	M
Benzo[g,h,i]perylene	58:30	44647127		1.2838	376.0	376.0	0.004798	0.004798	93.99	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS6_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
 Lims ID: IC L8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 20-Jun-2024 00:04:00 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-008
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
 Limit Group: HR - HRPAAH ICAL
 Last Update: 20-Jun-2024 09:51:58 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:39:08

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	-1	0.667	13369772	4560382	108	270	42226		
Naphthalene											
128.0626	11:33	11:34	-1	1.000	66534766	23571526	761	1902	30974		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:52	-1	0.800	6439882	3011483	3	7	1003828		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.001	31544481	14565701	250	625	58263		
13C6-Acenaphthylene											
158.0828	16:45	16:45	-1	0.967	6765535	2390392	5	12	478078		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	37234784	13823003	297	742	46542		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3938389	1357794	4	10	339449		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	4039150	1433544	8	20	179193		
Acenaphthene											
154.0783	17:26	17:27	-1	1.000	19367968	7000107	178	445	39326		
13C6-Fluorene											
172.0984	19:44	19:45	-1	1.140	3801144	1141649	3	7	380550		
Fluorene											
166.0783	19:44	19:45	-1	1.000	18232964	5731294	139	347	41232		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	5572957	1302616	18	45	72368		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	23294554	5710557	164	410	34820		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	4116582	938915	4	10	234729		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	4474470	1011656	18	45	56203		
Anthracene											
178.0783	25:27	25:28	-1	1.000	22947314	5311986	164	410	32390		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	11997910	2409519	129	322	18678		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	53709863	11141942	168	420	66321		
Pyrene-d10											
212.1404	35:25	35:27	-2		9327125	1744548	56	140	31153		
13C3-Pyrene											
205.0883	35:34	35:35	-2	1.004	13356986	2550188	101	252	25249		
Pyrene											
202.0783	35:34	35:35	-1	1.000	54662936	10863334	168	420	64663		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:18	-1	0.708	4761886	868339	10	25	86834		
13C6-Benzo(a)anthracene											
234.1140	46:07	46:07	-1	1.302	10694535	1918789	159	397	12068		
Benzo[a]anthracene											
228.0939	46:07	46:07	-1	1.000	39547814	7546280	237	592	31841		
13C6-Chrysene											
234.1140	46:23	46:24	-1	1.309	11695295	2008932	159	397	12635		
Chrysene											
228.0939	46:23	46:25	-2	1.000	43785996	7992089	237	592	33722		
13C6-Benzo(b)fluoranthene											
258.1140	54:39	54:40	-1	0.985	10435051	2825469	10	25	282547		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	45422181	13034981	74	185	176148		
13C12-Benzo(j)fluoranthene											
264.1336	54:41	54:42	-1	0.985	9891565	2522237	141	352	17888		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	12917530	3282519	10	25	328252		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	55519685	14325989	74	185	193595		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	-1		6903874	2161428	129	322	16755		
13C4-Benzo(e)pyrene											
256.1073	55:35	55:35	-1	1.002	11723054	3934689	147	367	26767		
Benzo[e]pyrene											
252.0939	55:35	55:35	-1	1.000	45463447	15904191	74	185	214922		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	48994654	15258523	74	185	206196		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	11267474	3498798	147	367	23801		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	8439141	2723157	129	322	21110		
Perylene											
252.0939	55:57	55:58	-1	1.001	50605936	17778838	74	185	240255		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	7511958	2369138	69	172	34335		
Indeno[1,2,3-cd]pyrene											
276.0939	58:02	58:03	-1	1.000	31522628	10138502	65	162	155977		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	-1	1.047	7695778	2218739	40	100	55468		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	33420949	9833780	51	127	192819		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	9250572	2630111	32	80	82191		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-1	1.000	44647127	13129350	65	162	201990		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS6_00002

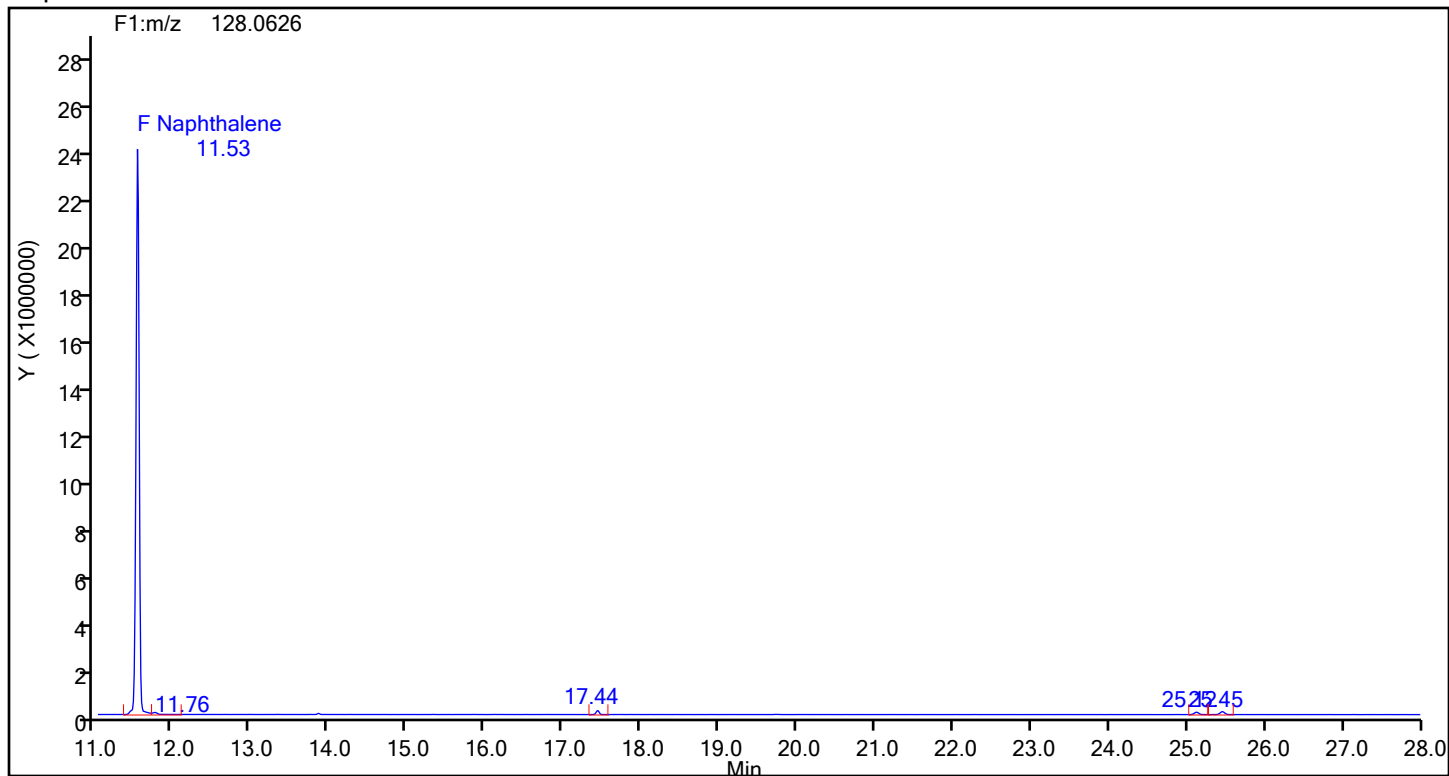
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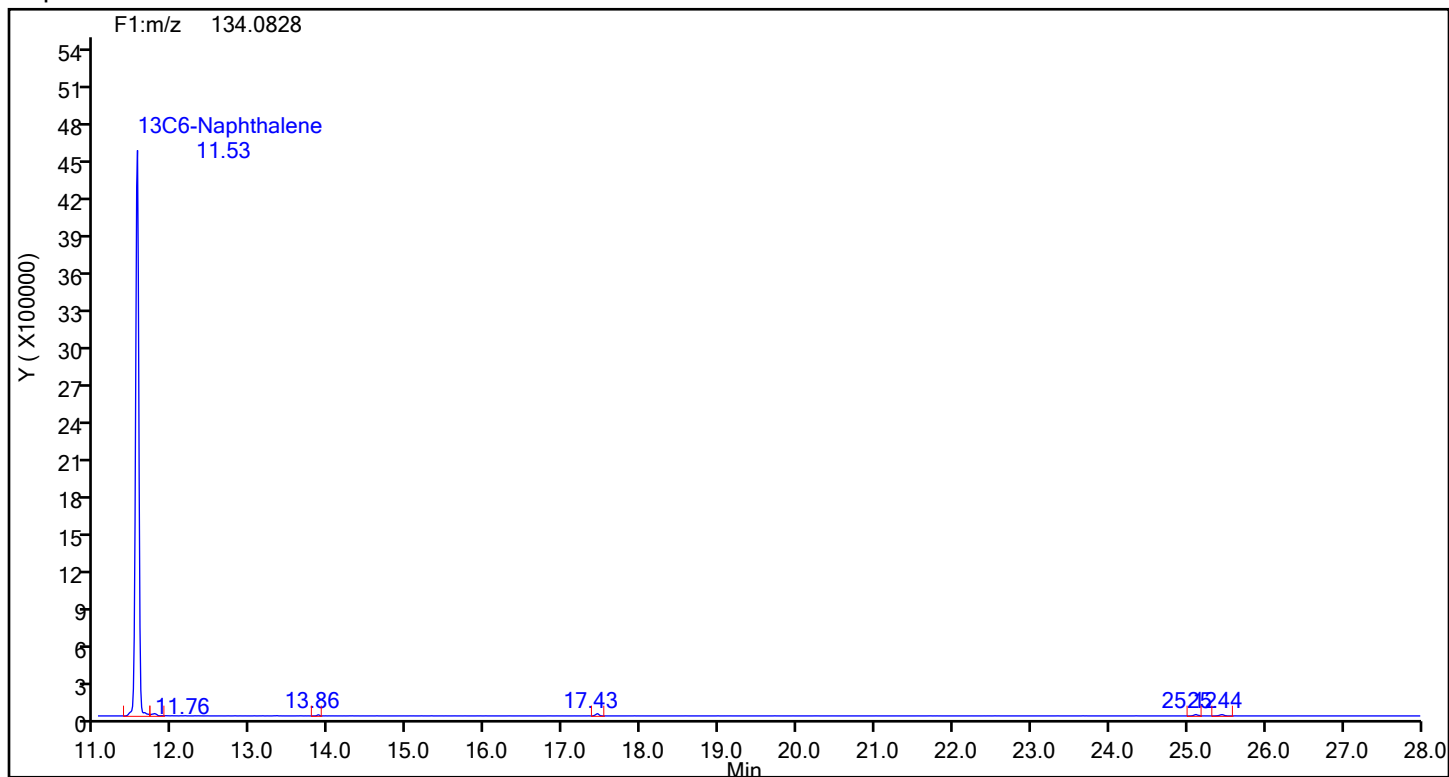
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



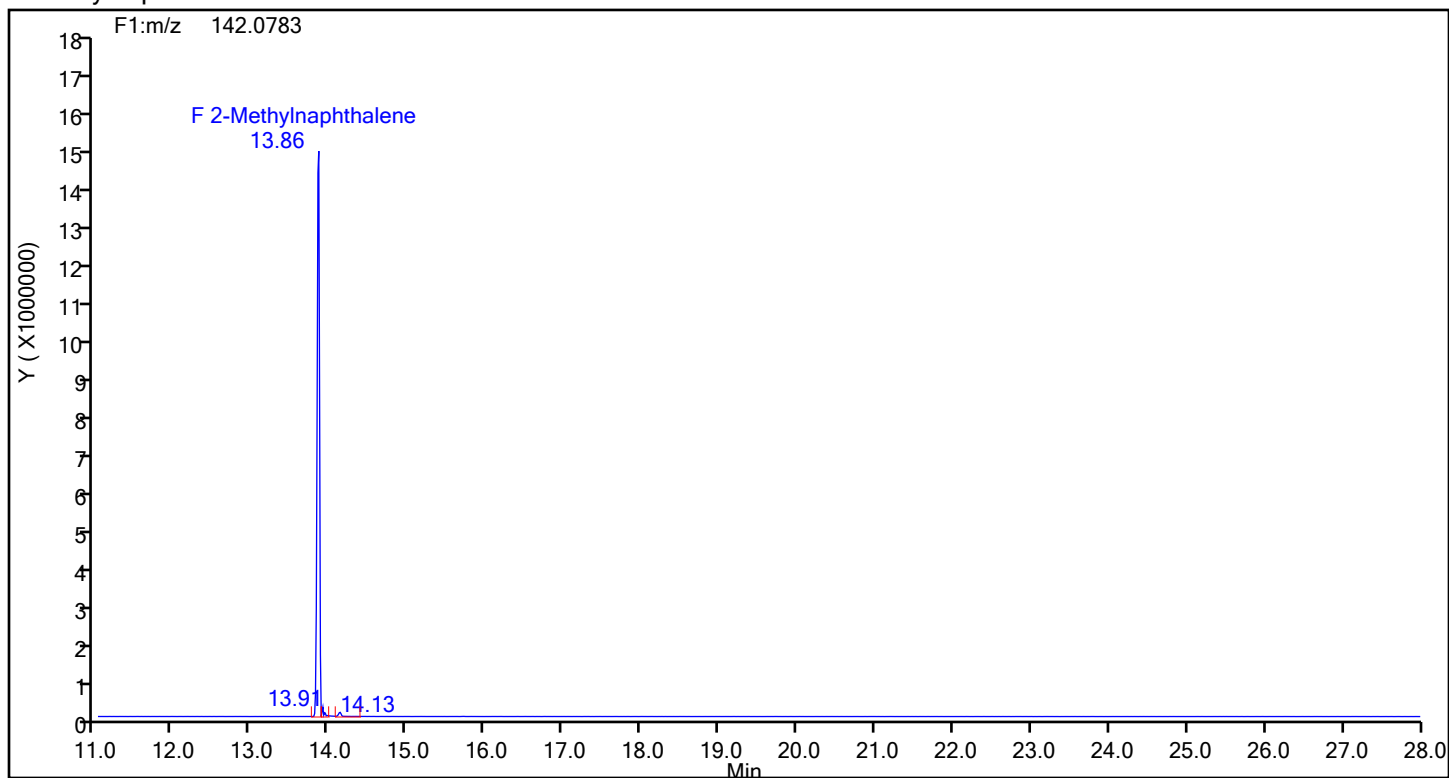
Naphthalene Standards



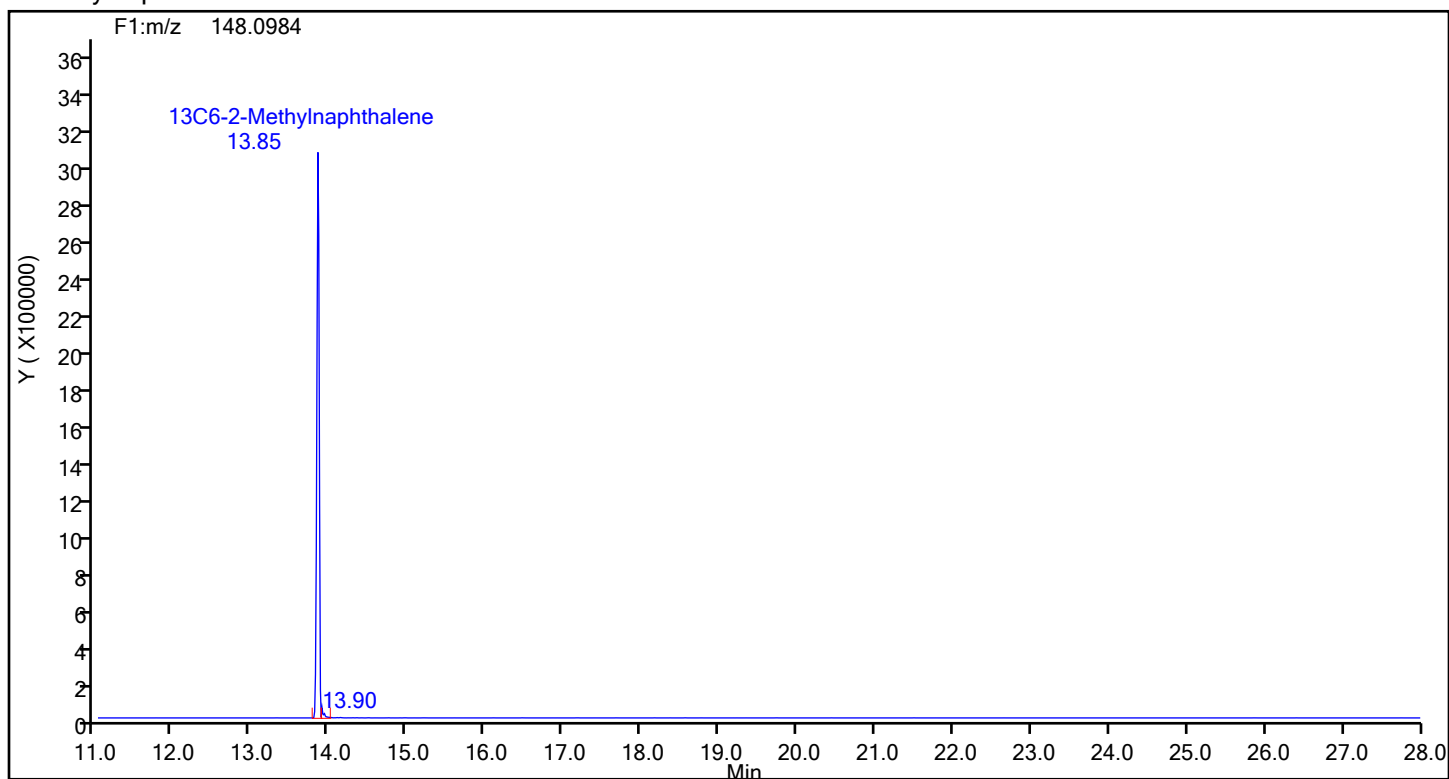
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



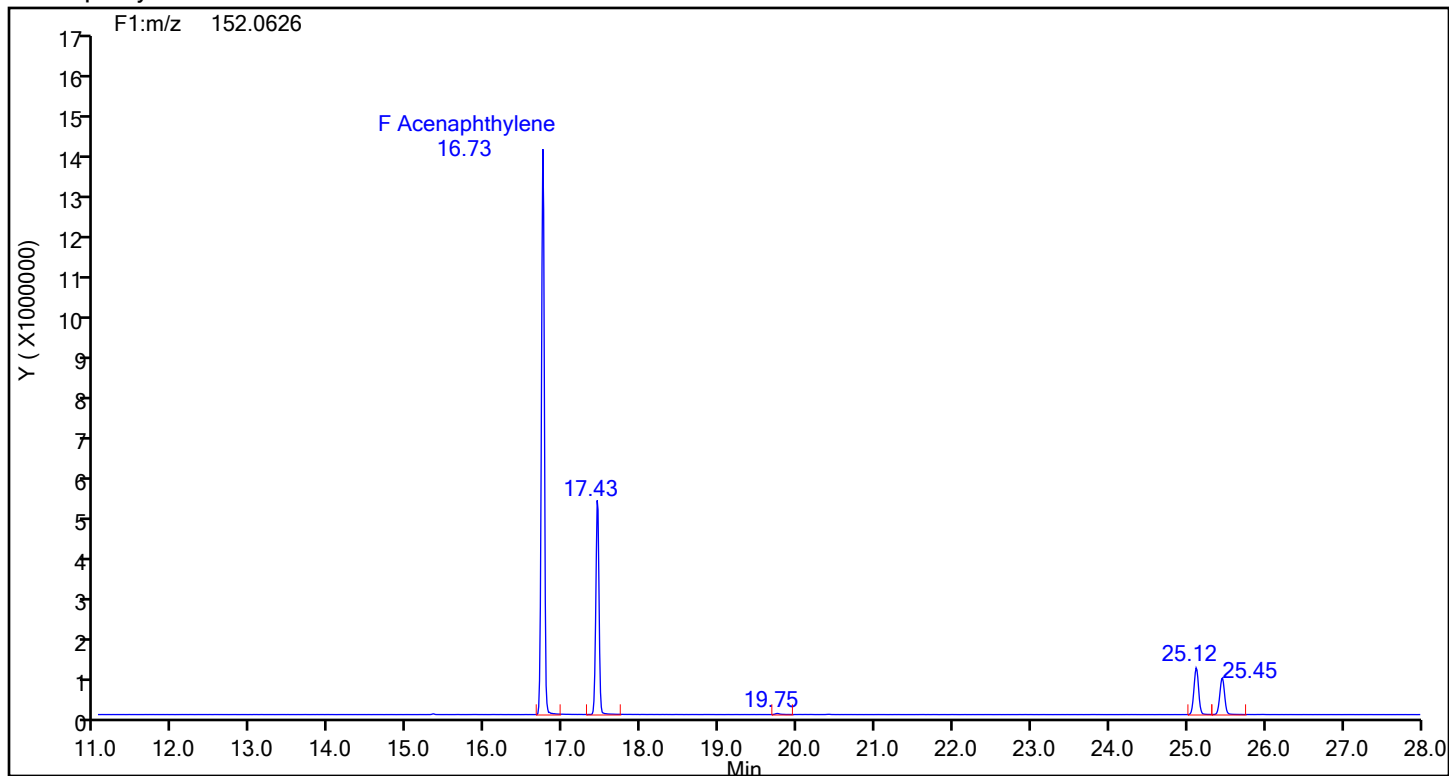
2-Methylnaphthalene Standards



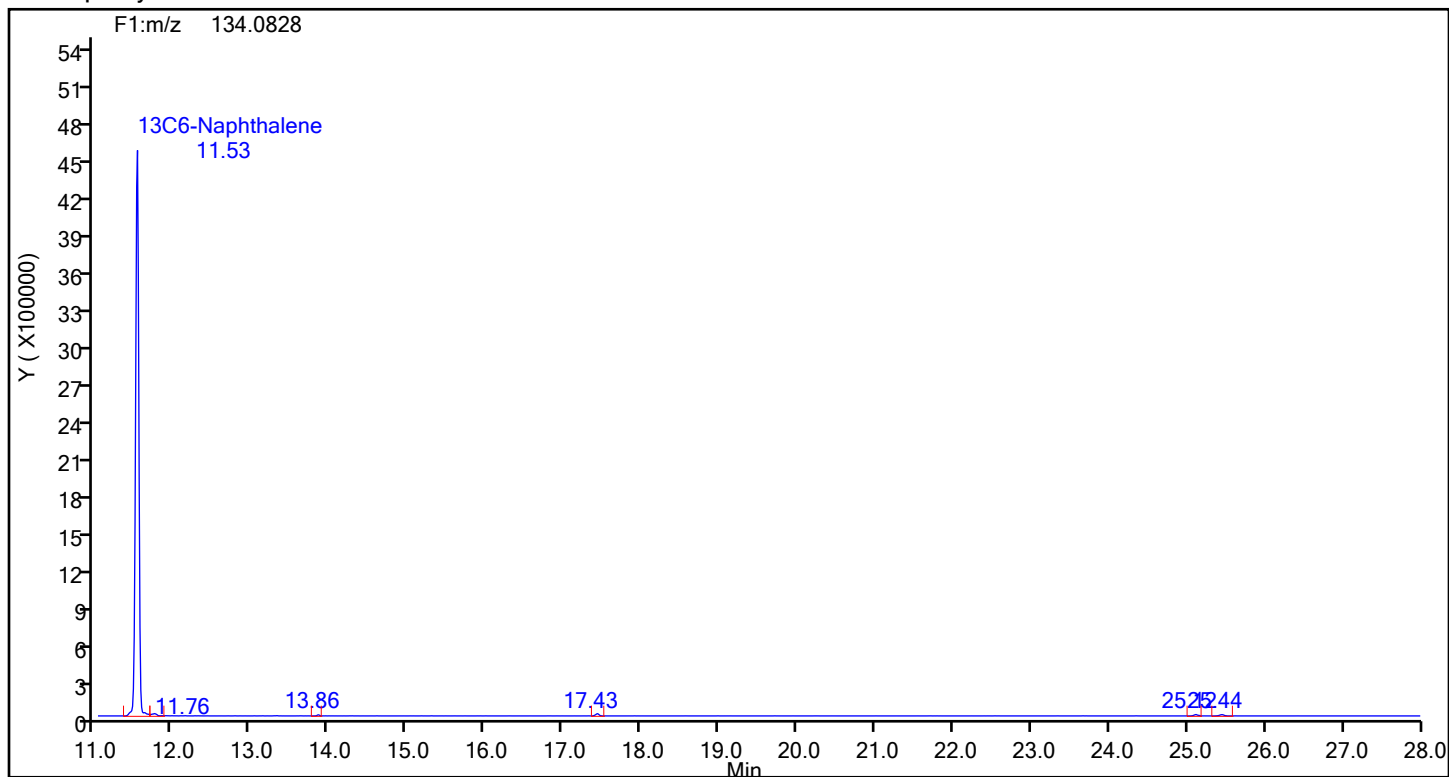
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene

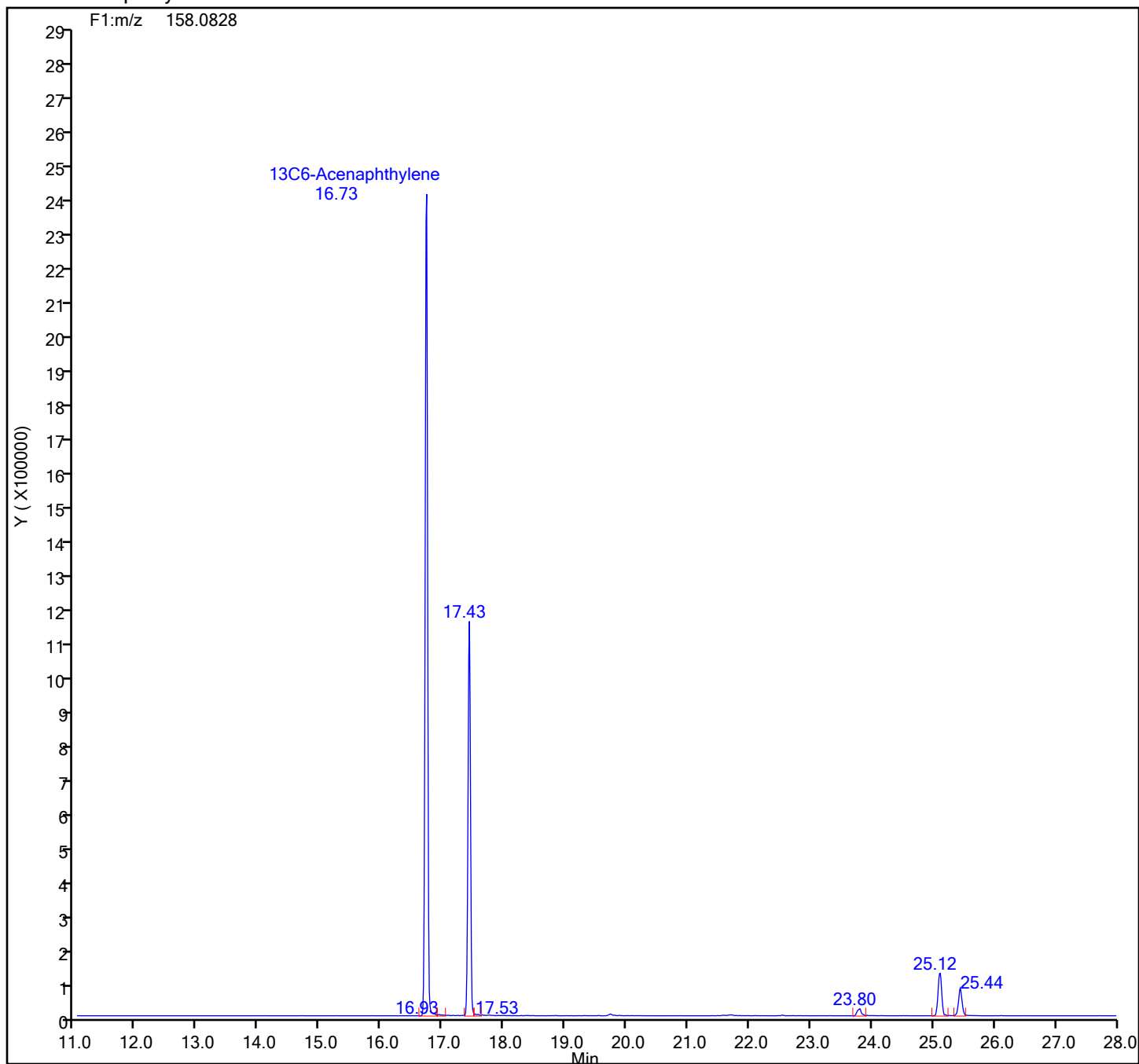


Acenaphthylene Standards



Eurofins Knoxville

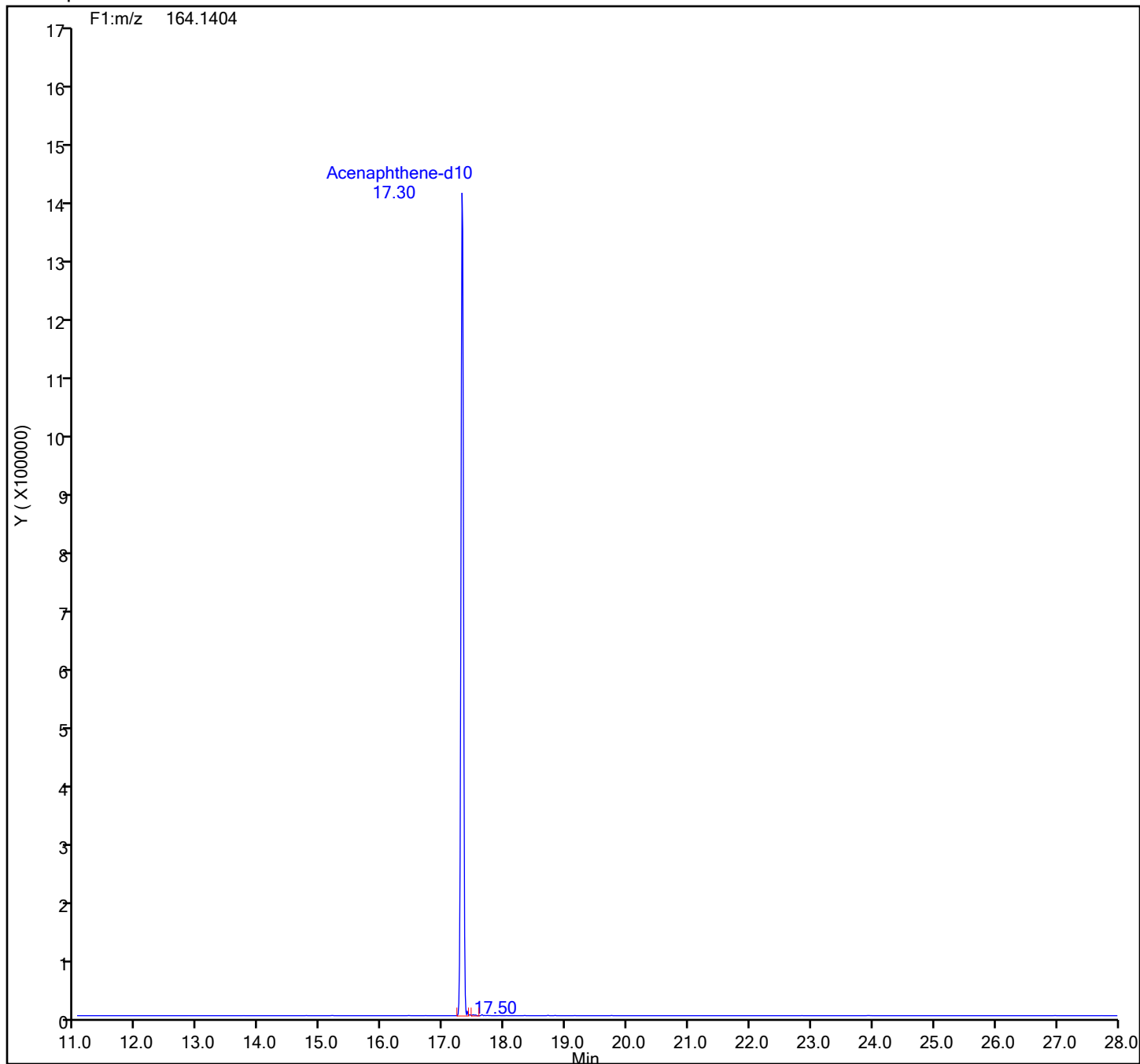
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13C6-Acenaphthylene Standards



Eurofins Knoxville

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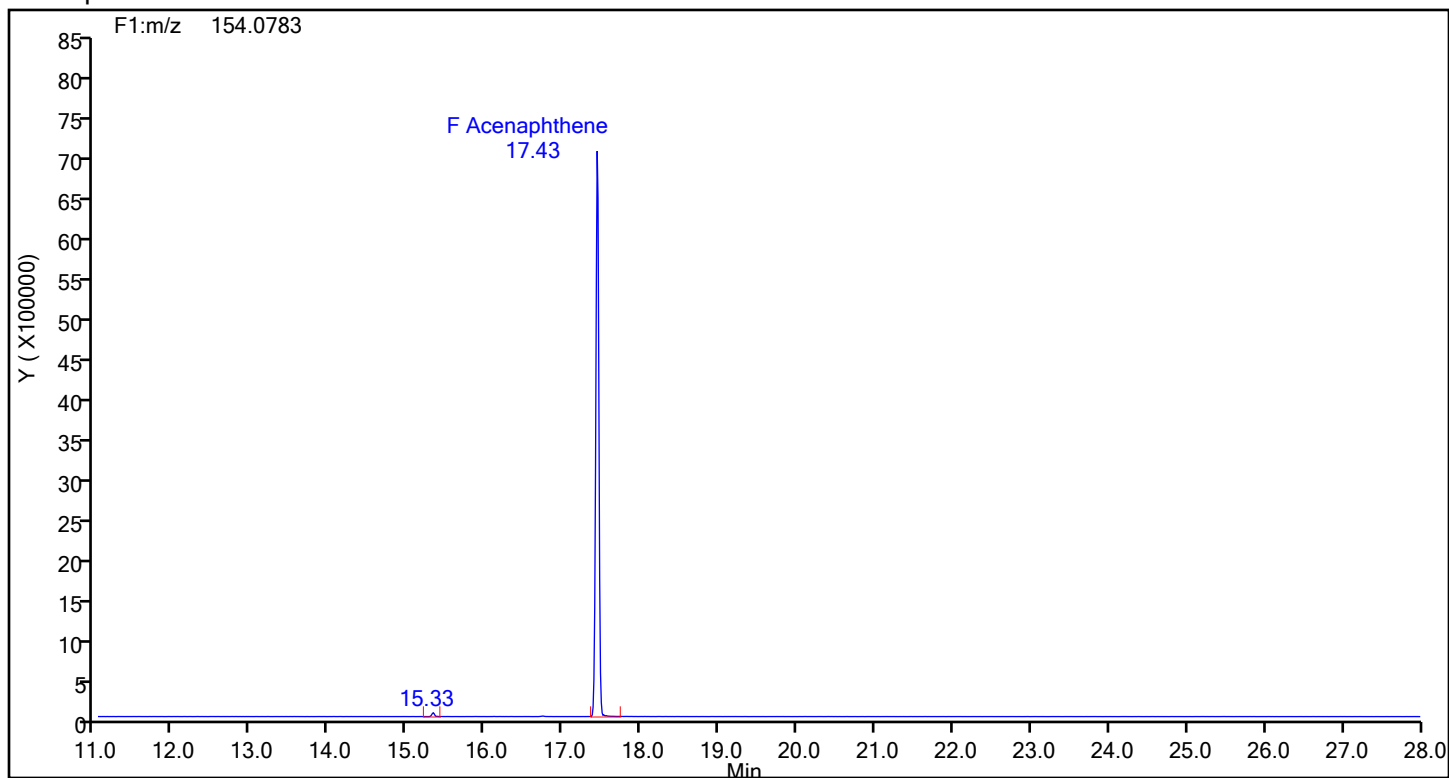
Acenaphthene-d10 Standards



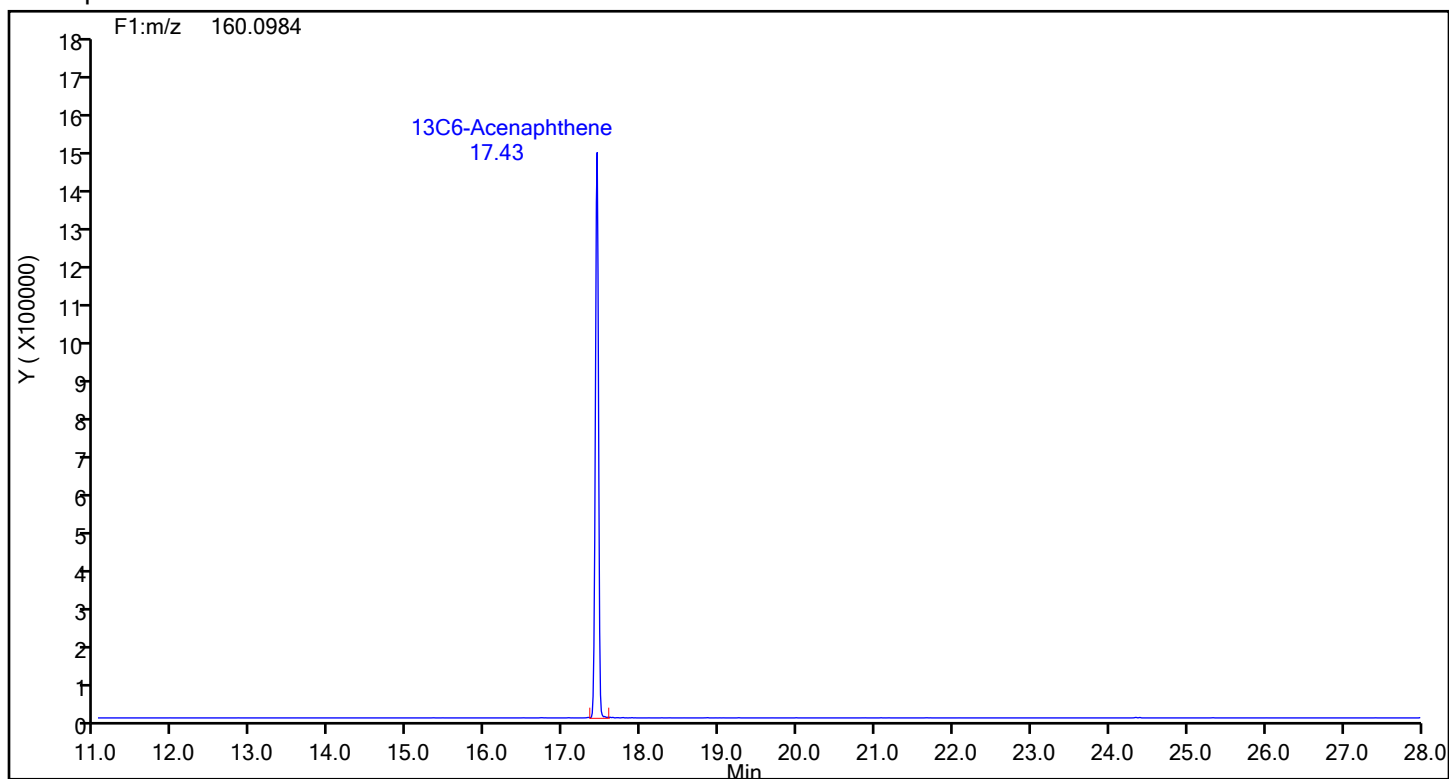
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Acenaphthene



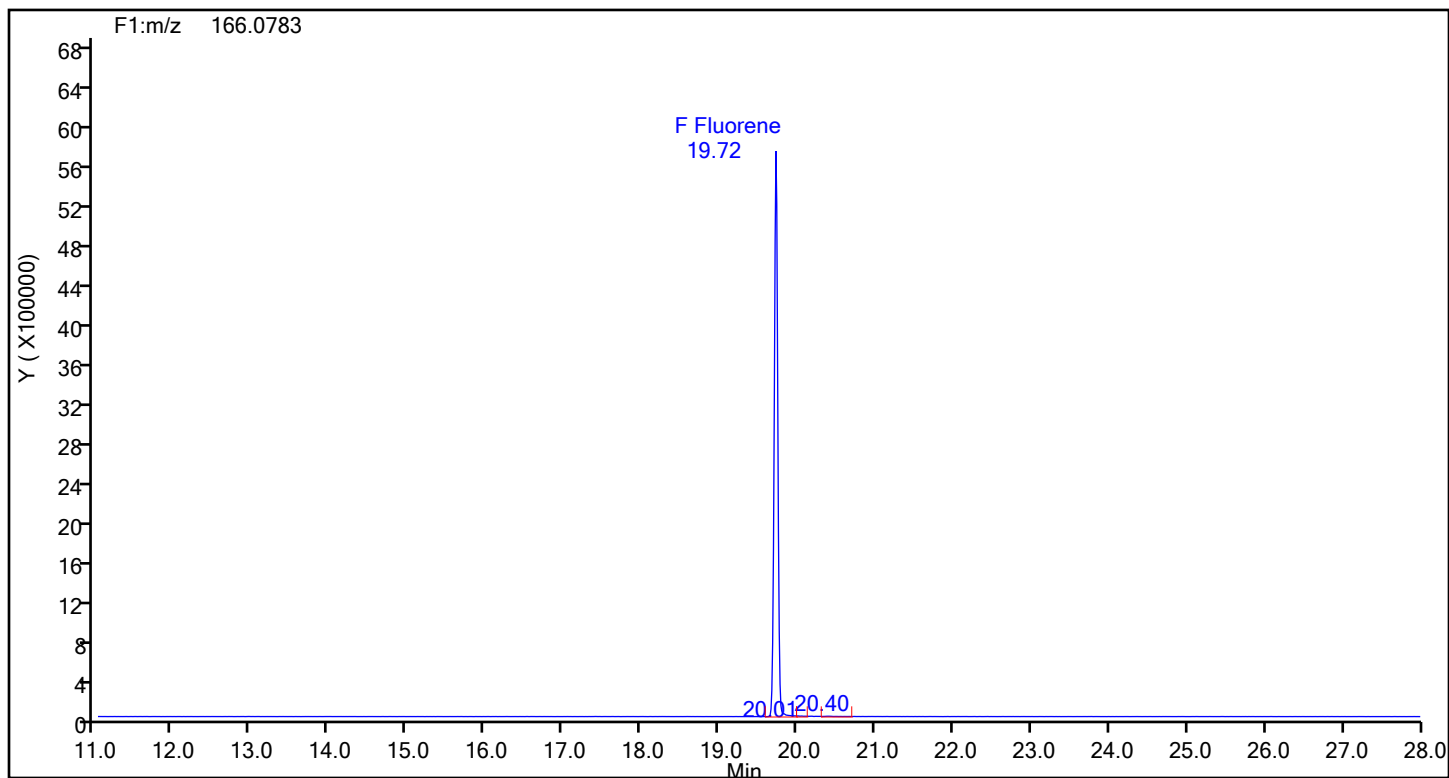
Acenaphthene Standards



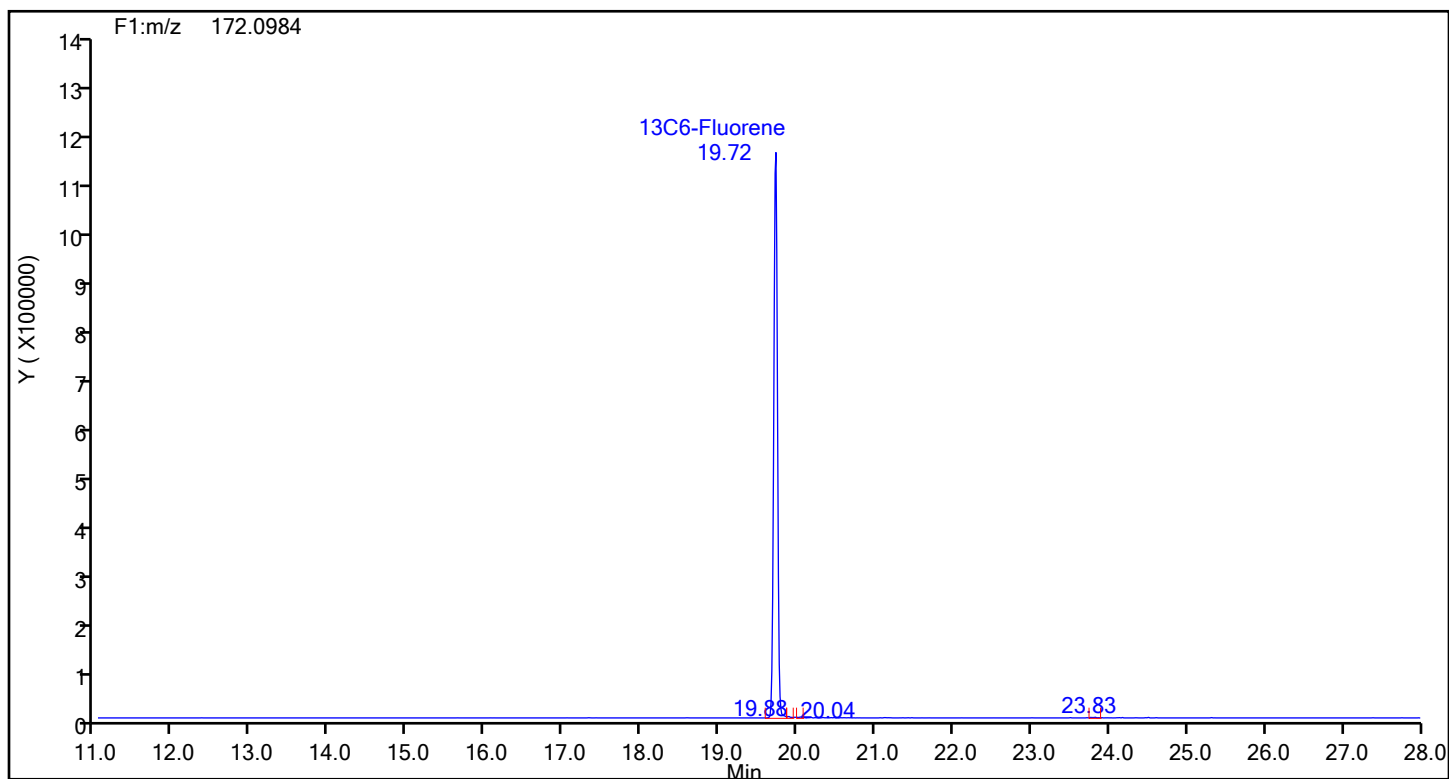
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

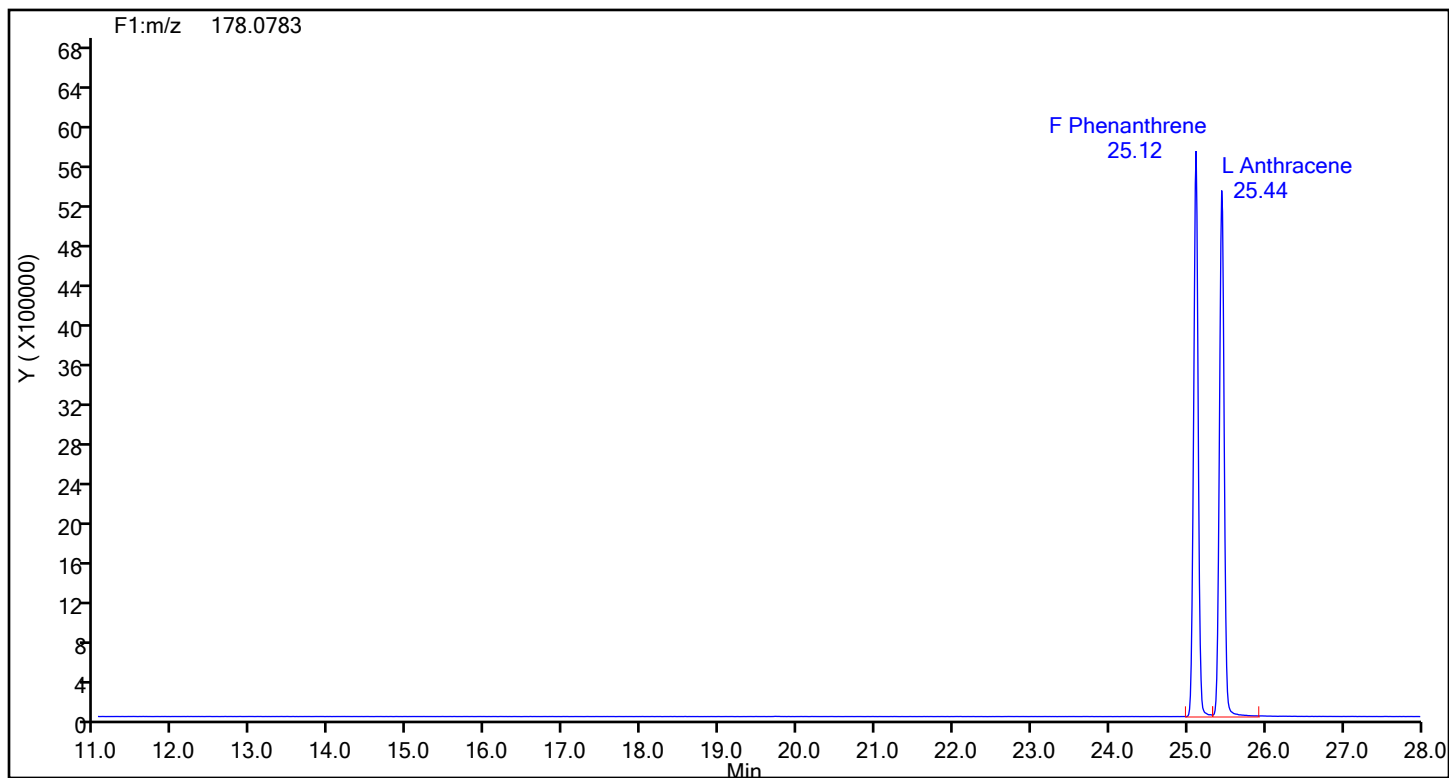


Fluorene Standards

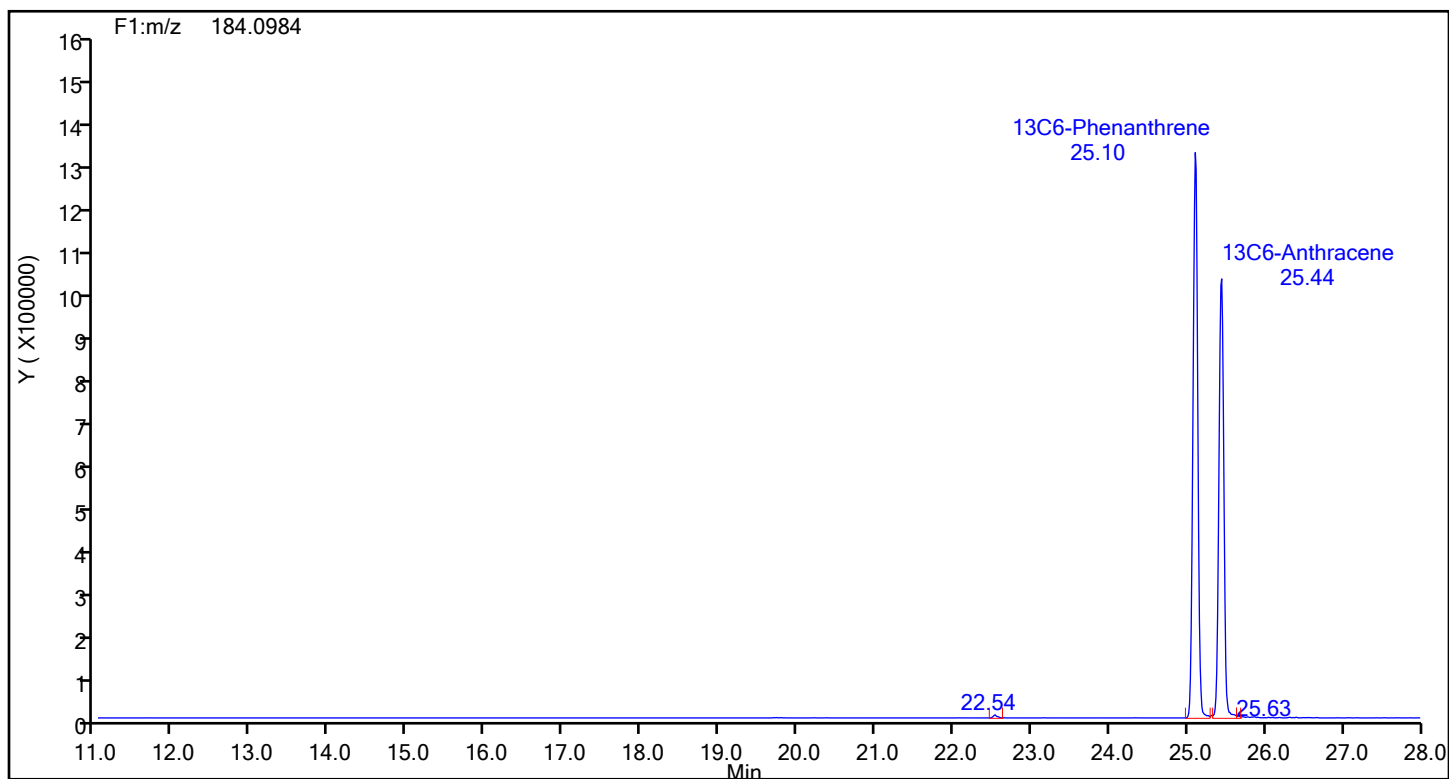


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Phenanthrene

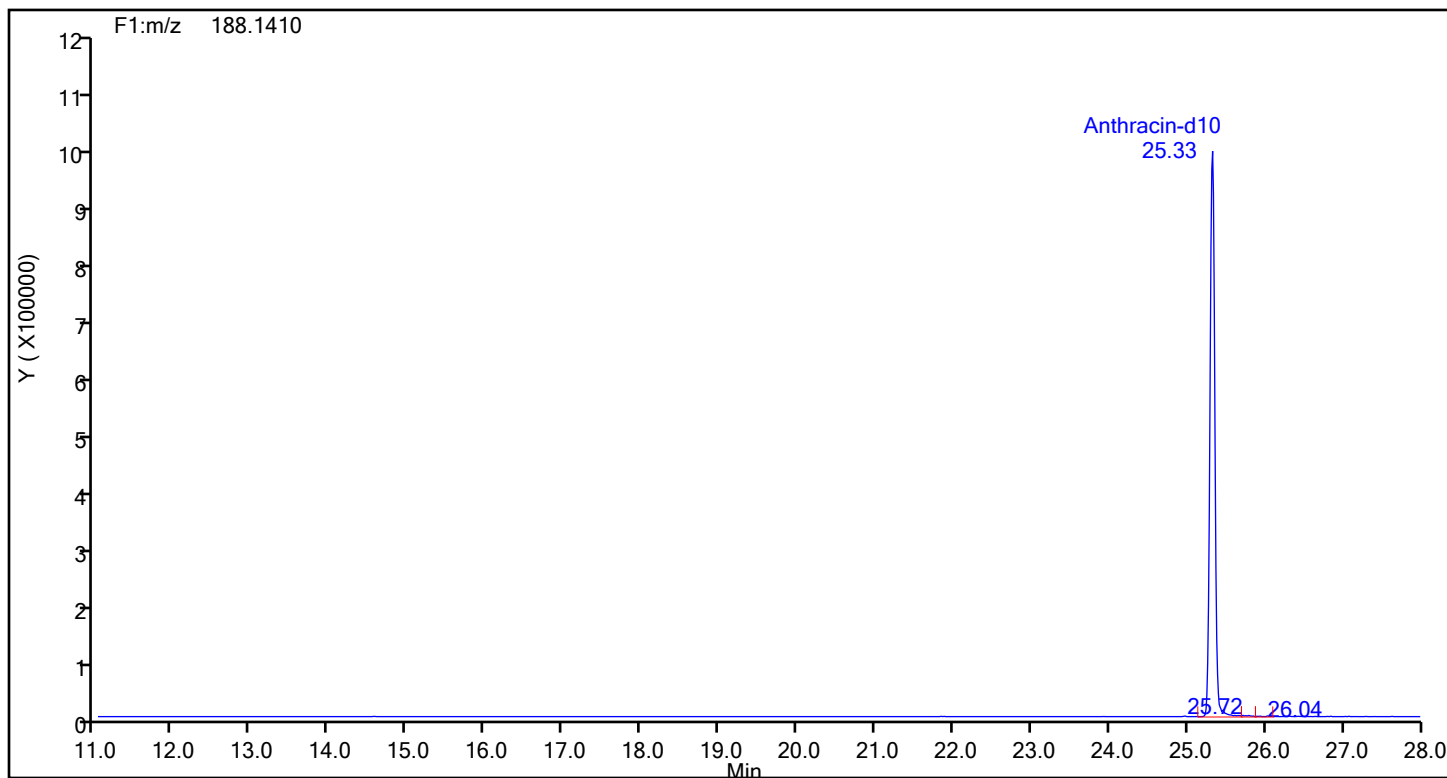


Phenanthrene Standards

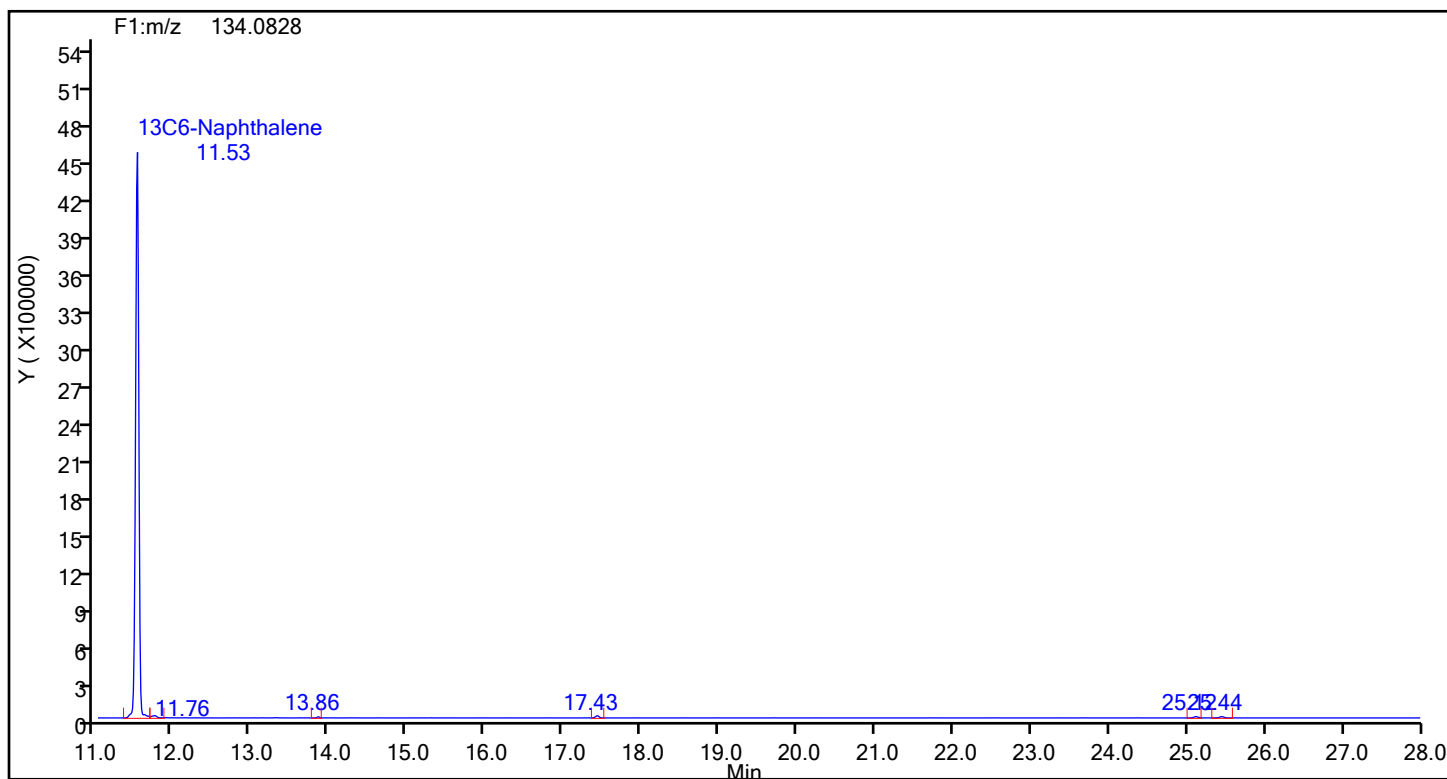


Eurofins Knoxville

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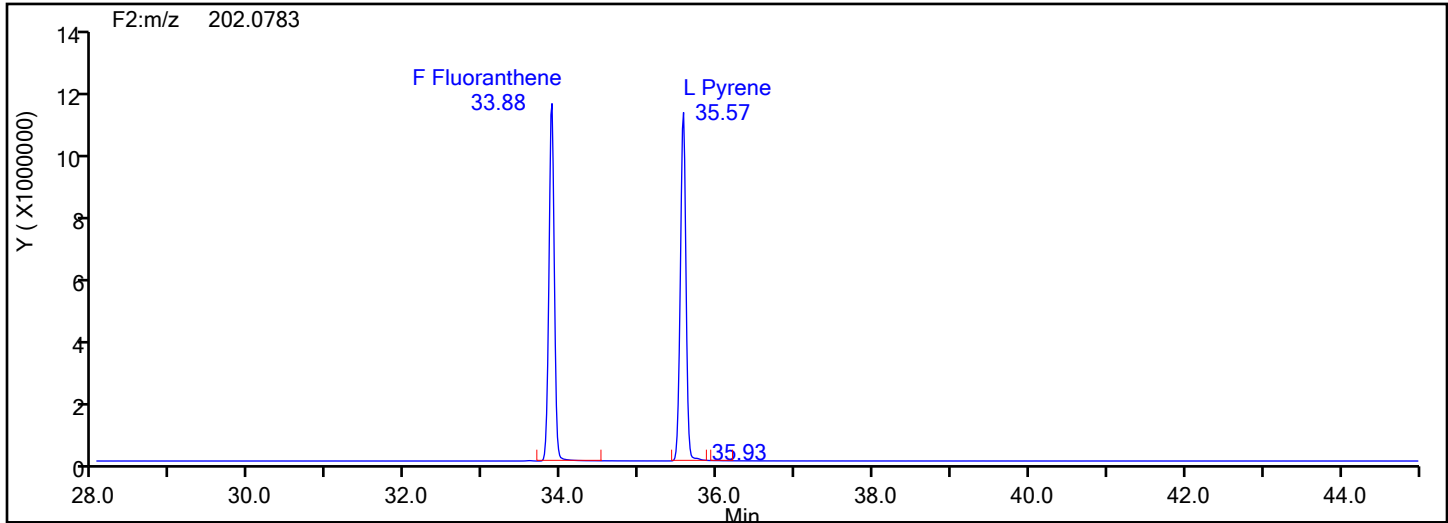


Anthracin-d10 Standards

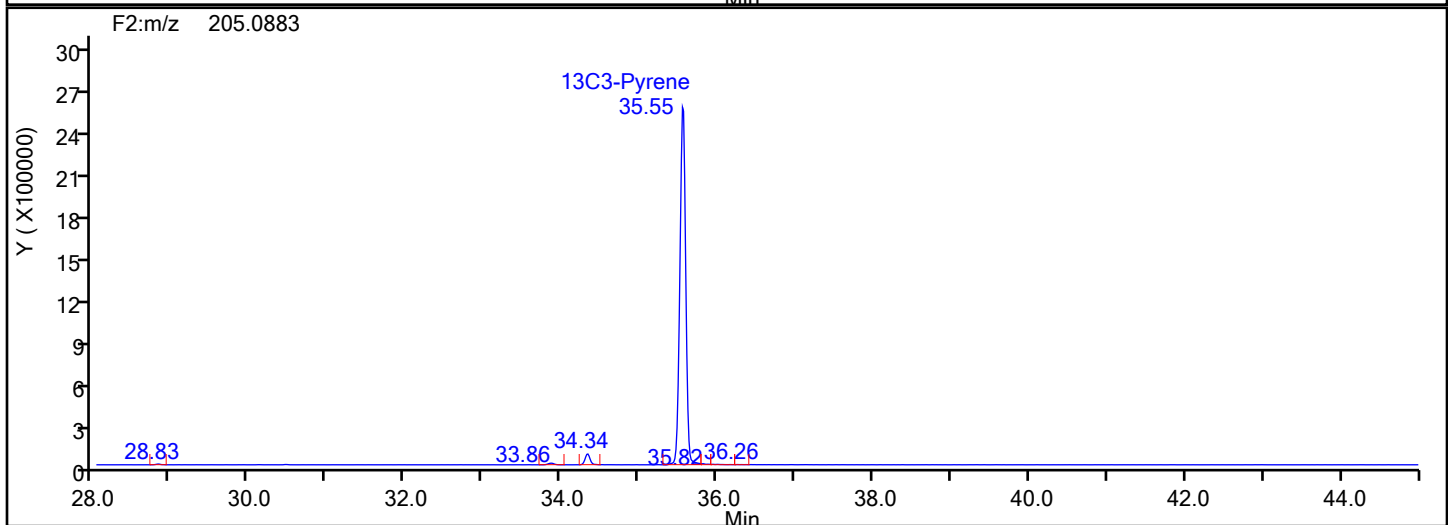
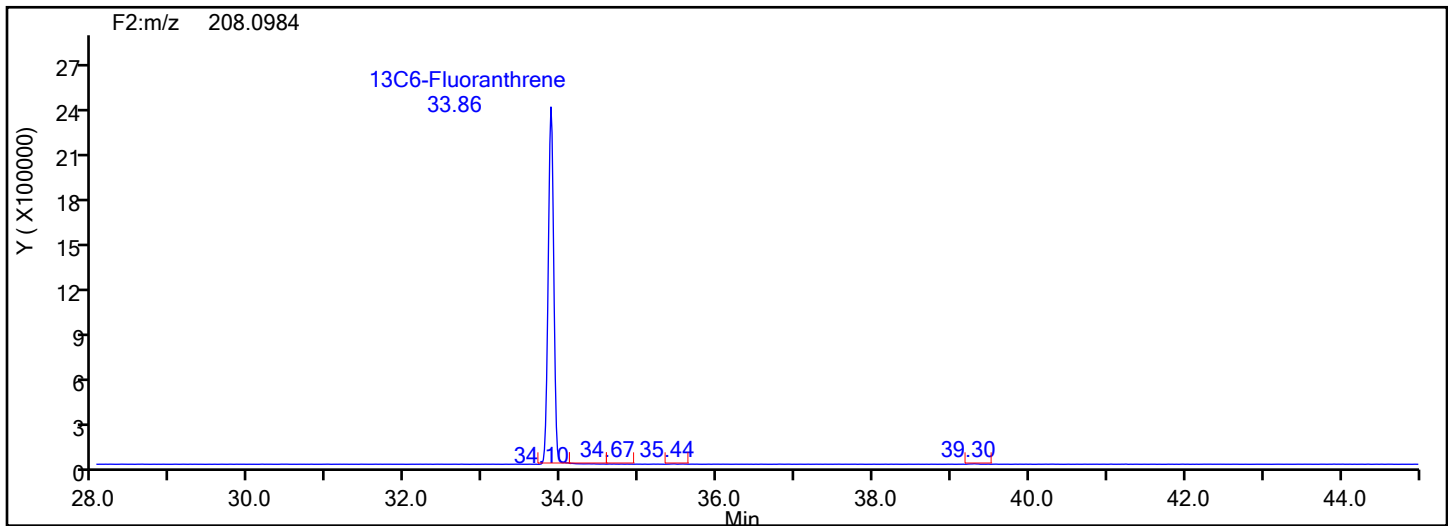


Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Fluoranthene



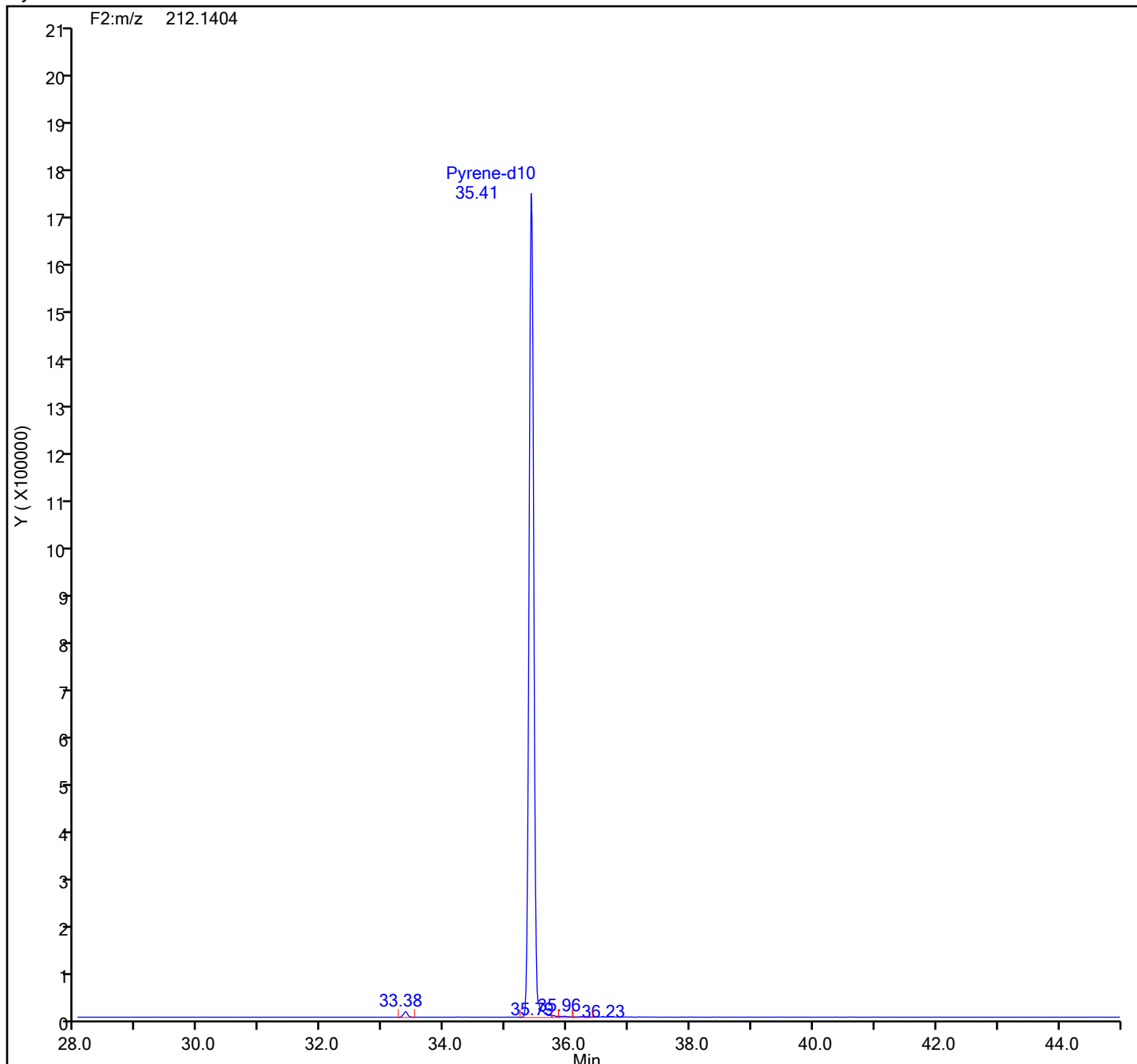
Fluoranthene Standards



Eurofins Knoxville

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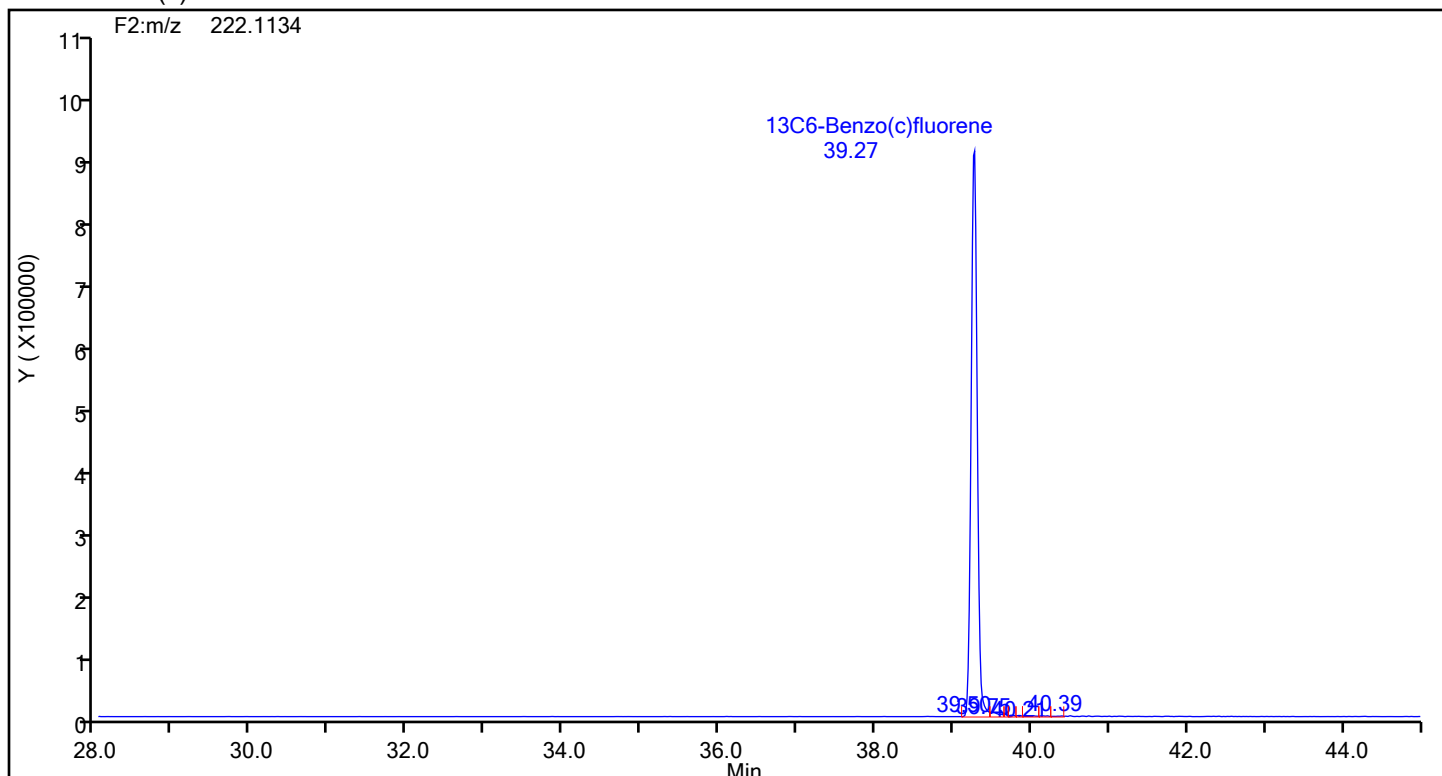
Pyrene-d10 Standards



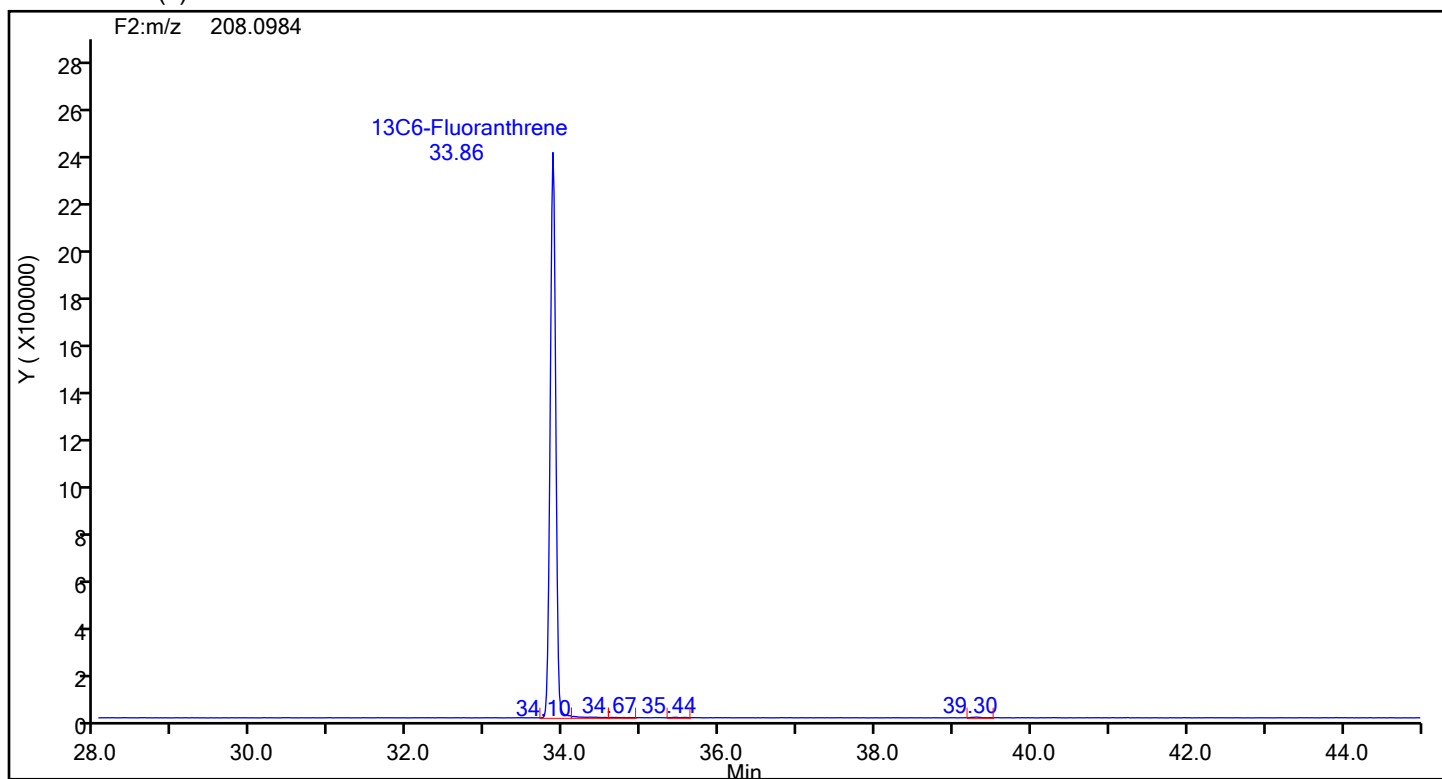
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



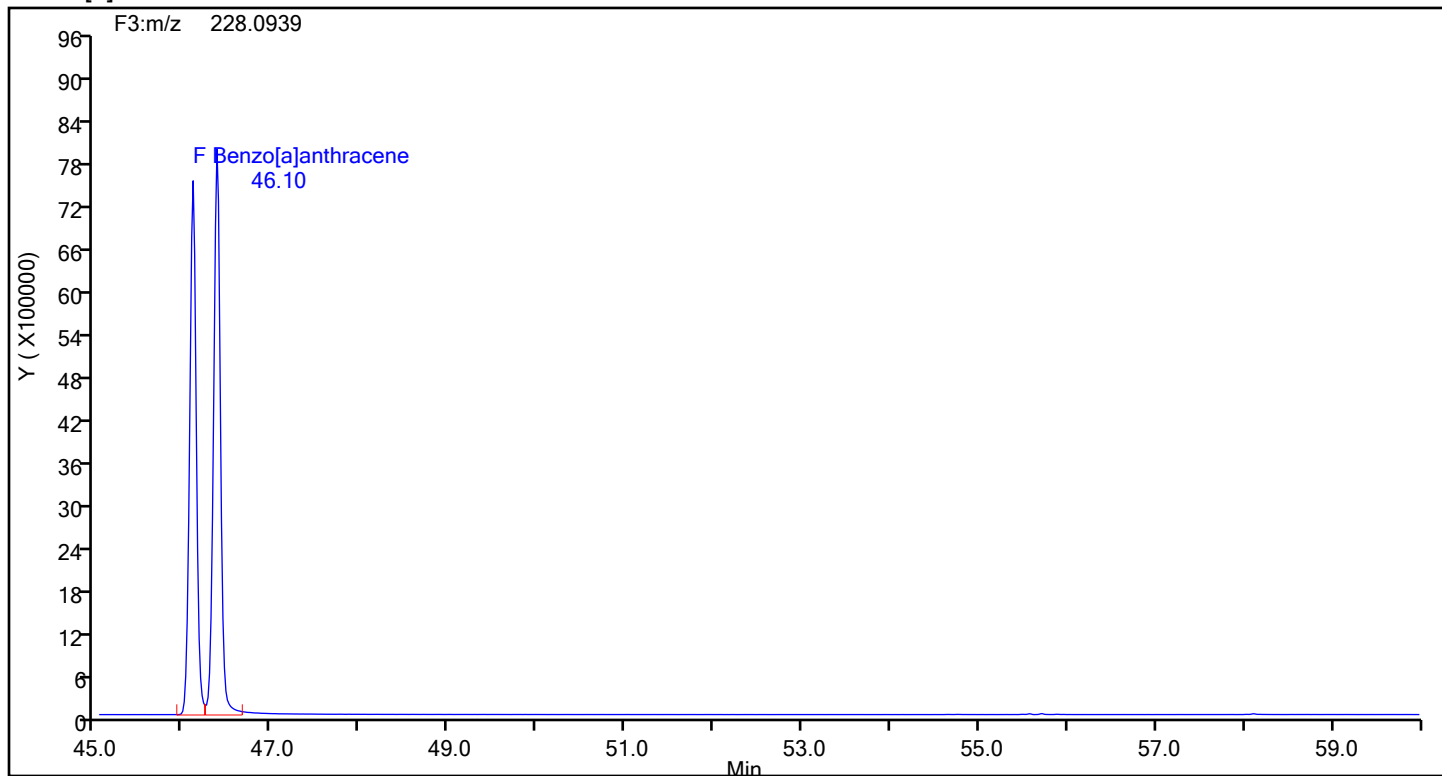
13C6-Benzo(c)fluorene Standards



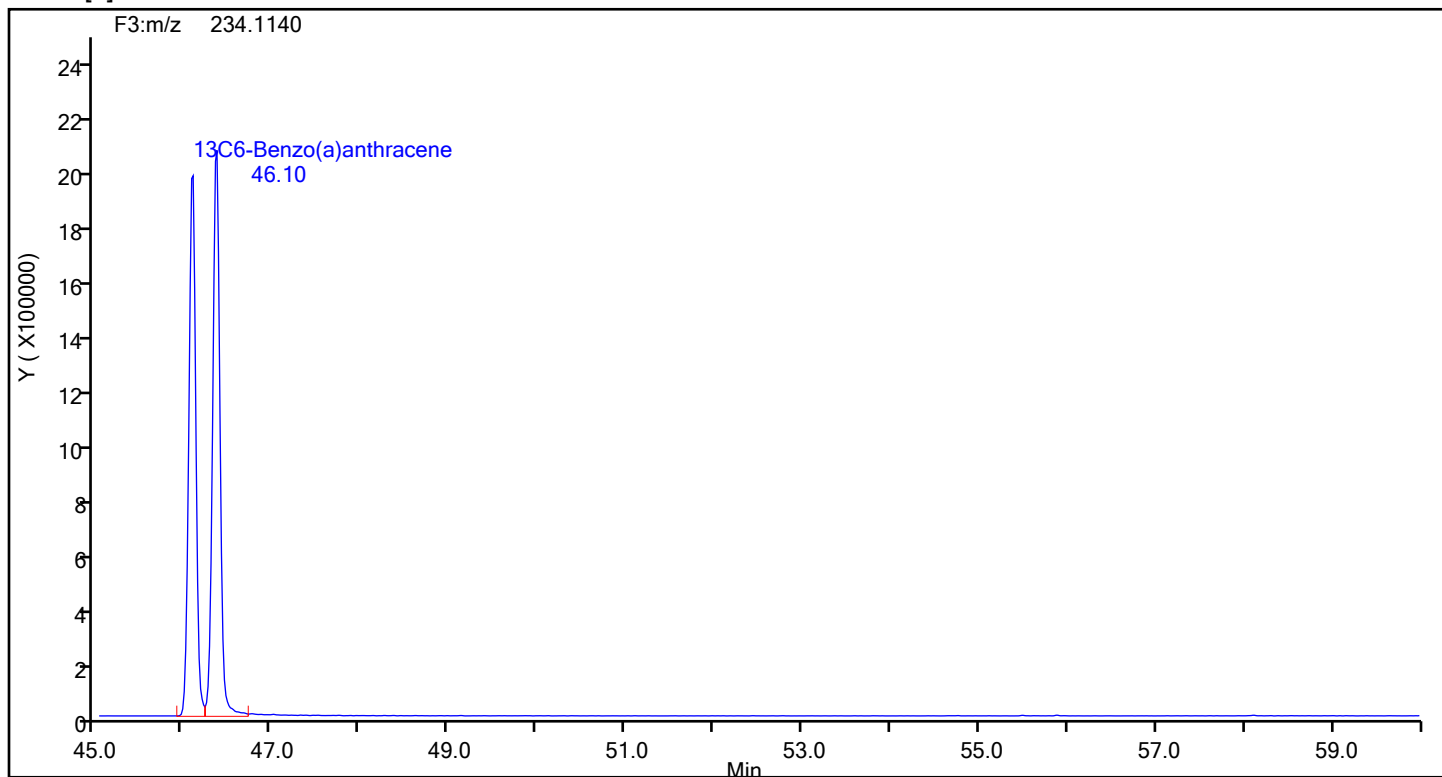
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



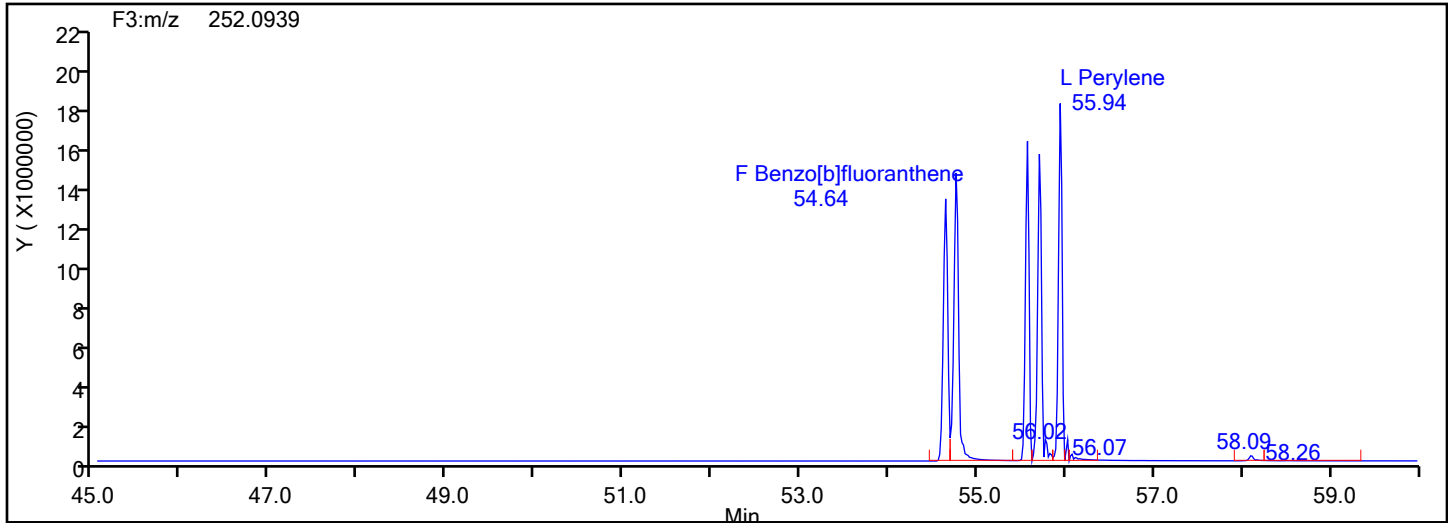
Benzo[a]anthracene Standards



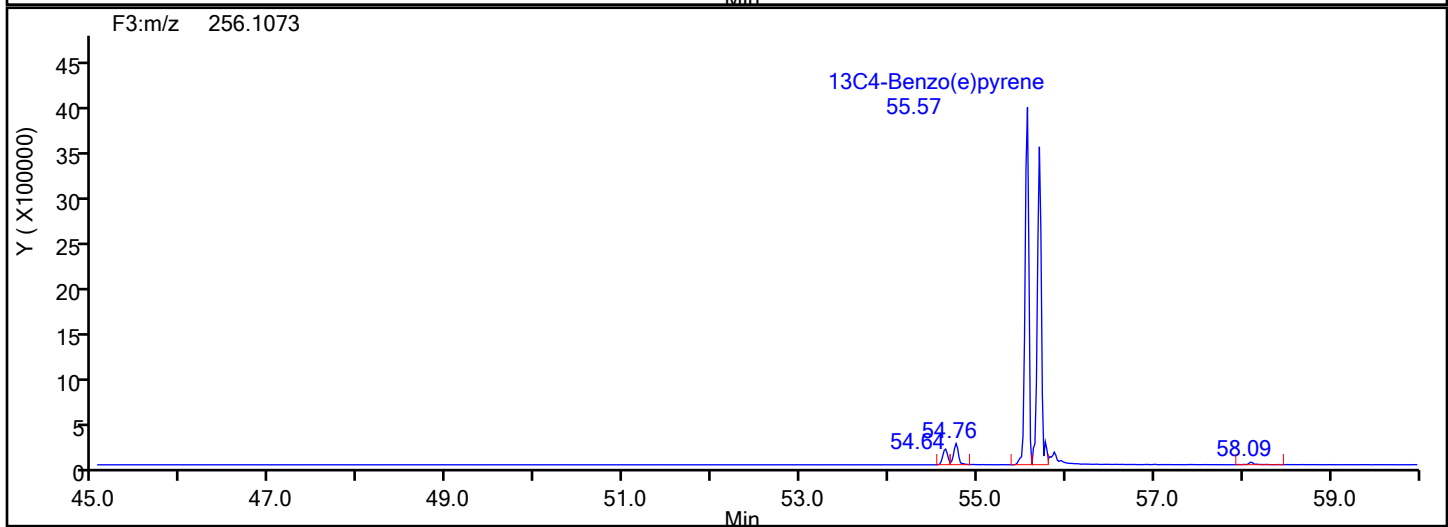
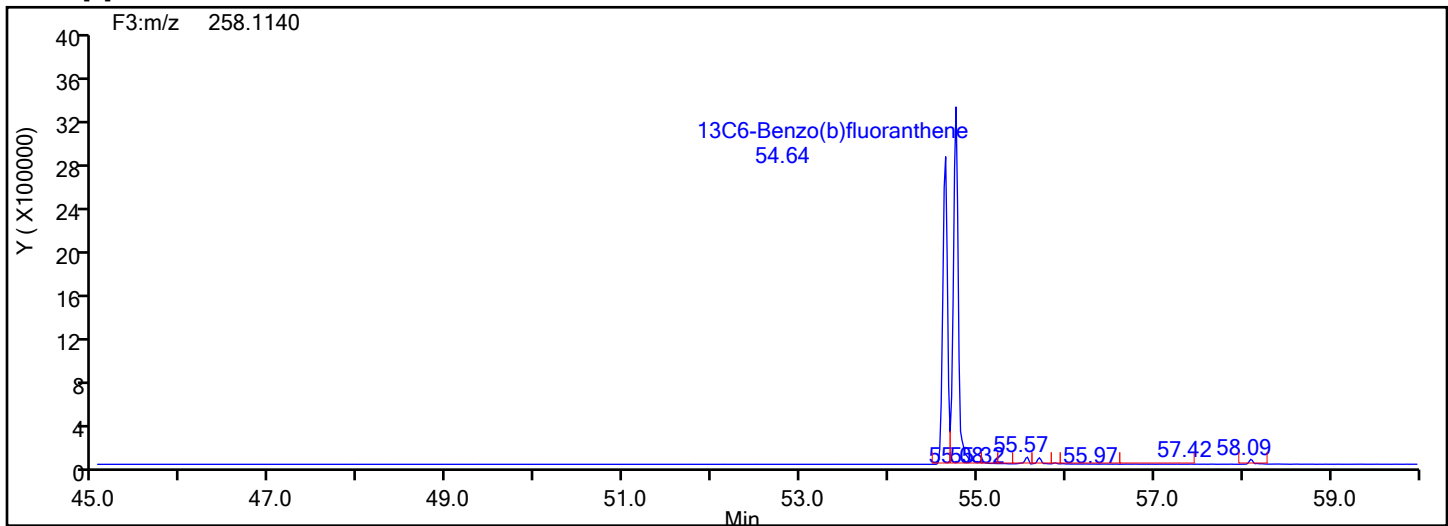
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



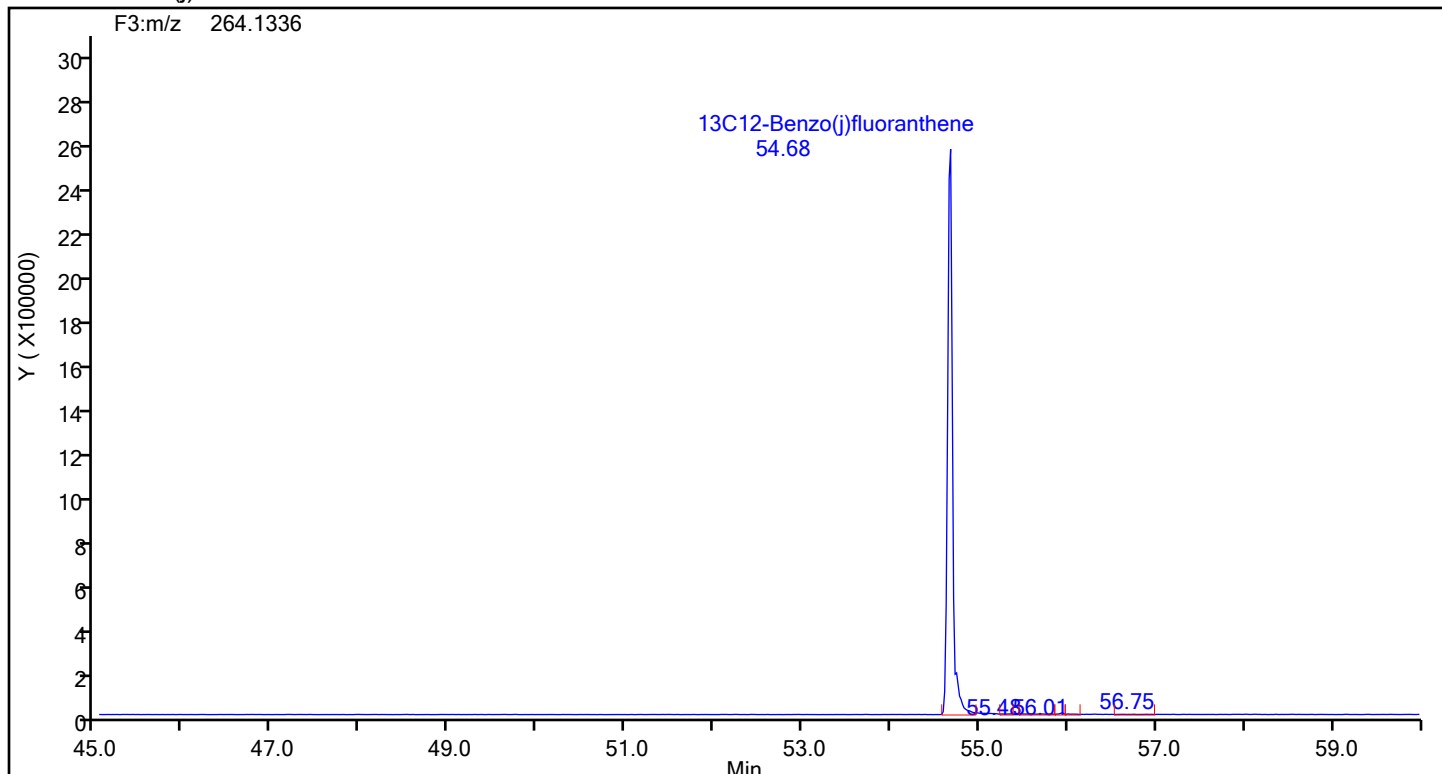
Benzo[b]fluoranthene Standards



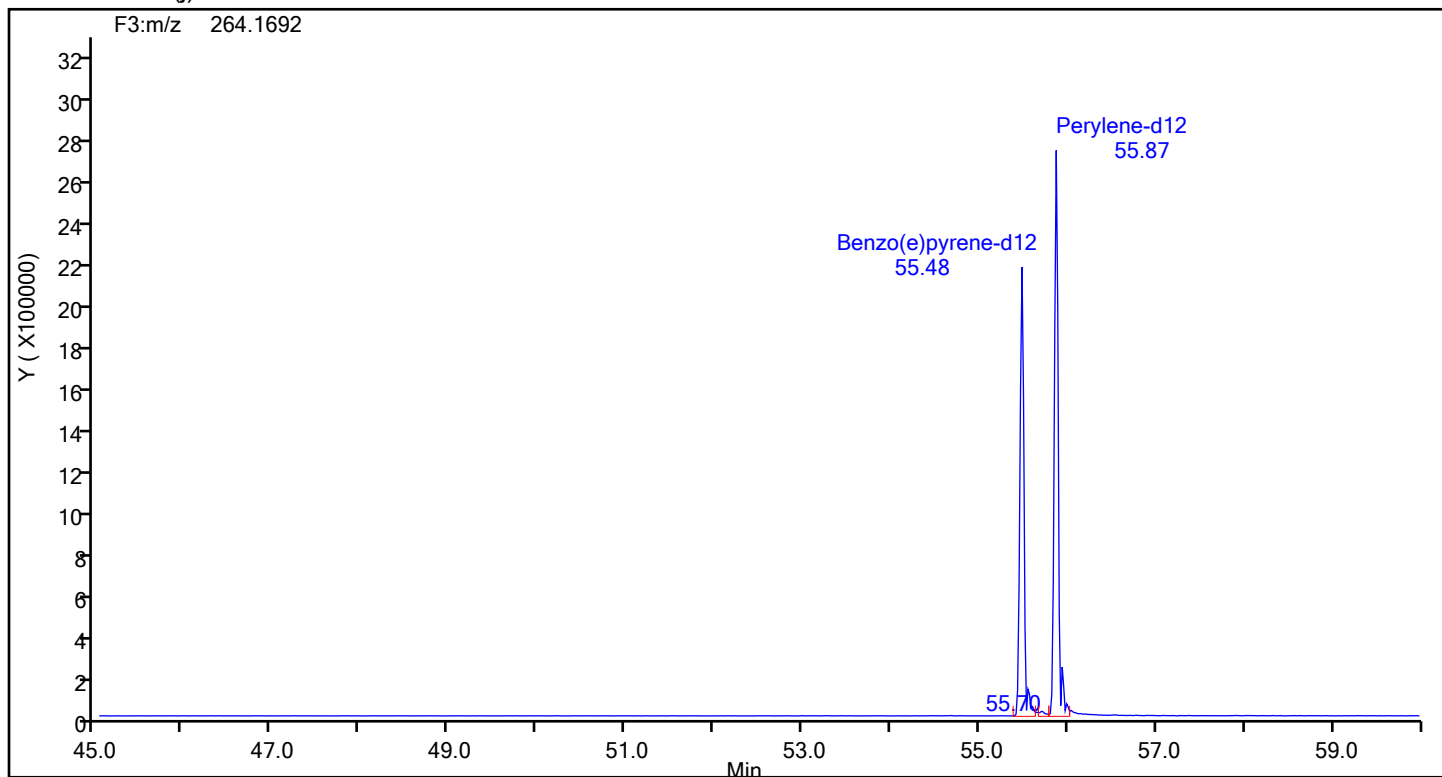
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



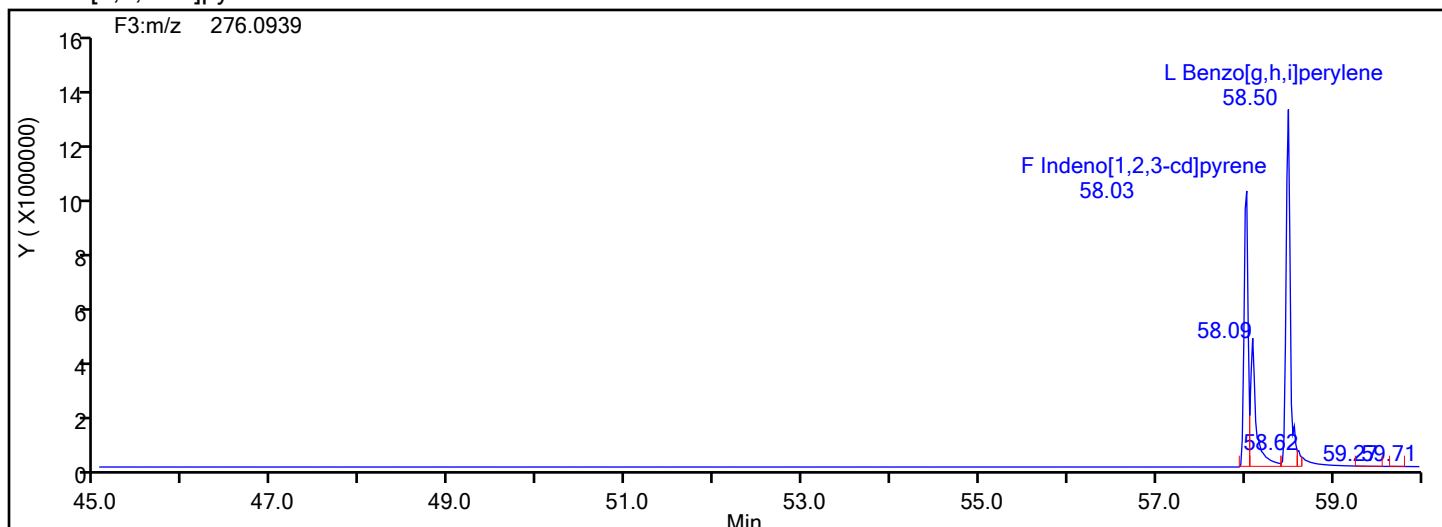
13C12-Benzo(j)fluoranthene Standards



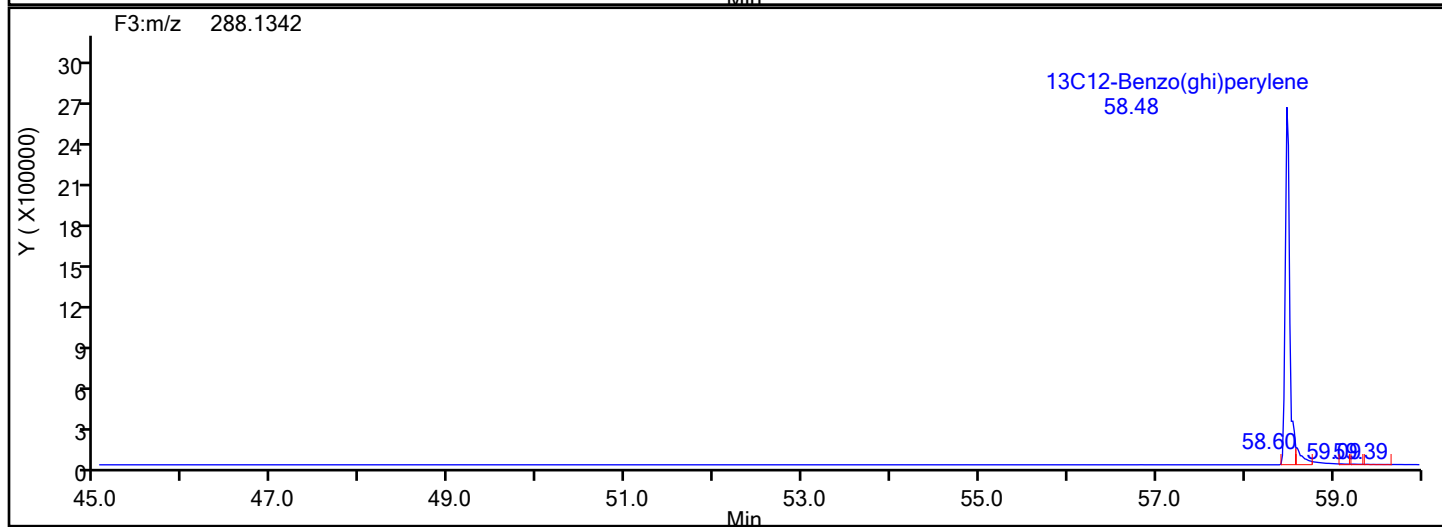
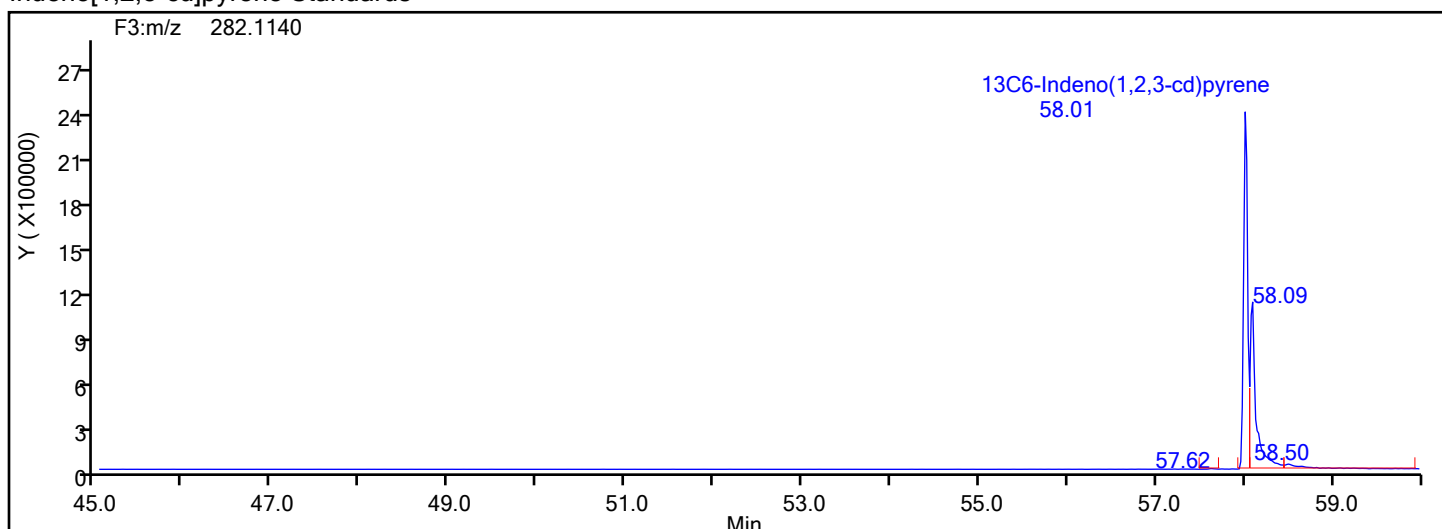
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Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

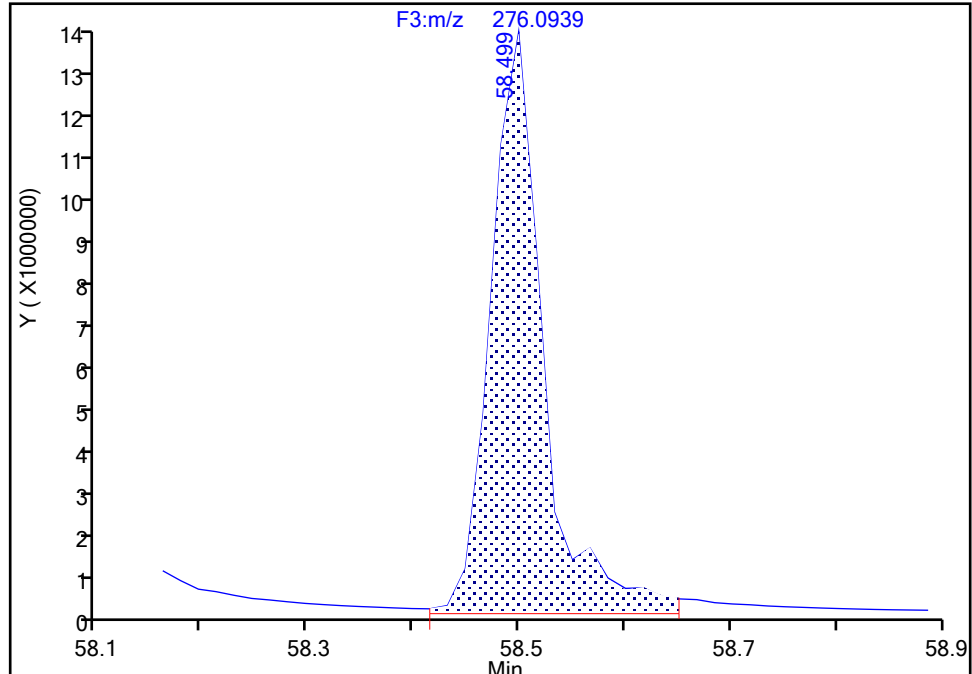
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Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

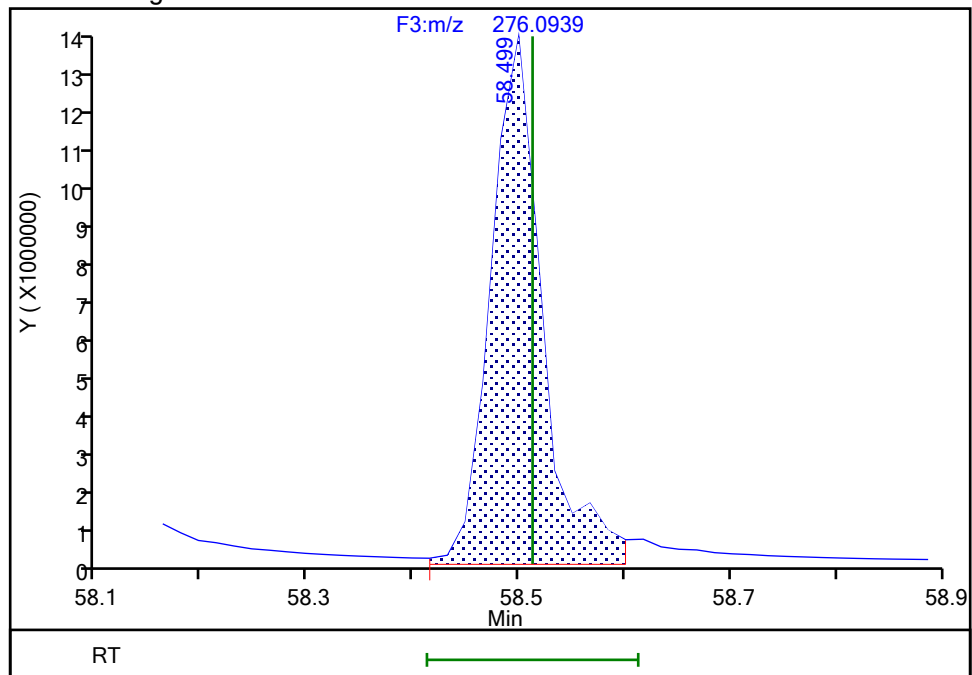
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Amount: 385.7539
Amount Units: pg/ul

Processing Integration Results



RT: 58.50
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Amount: 375.9607
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Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:06 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

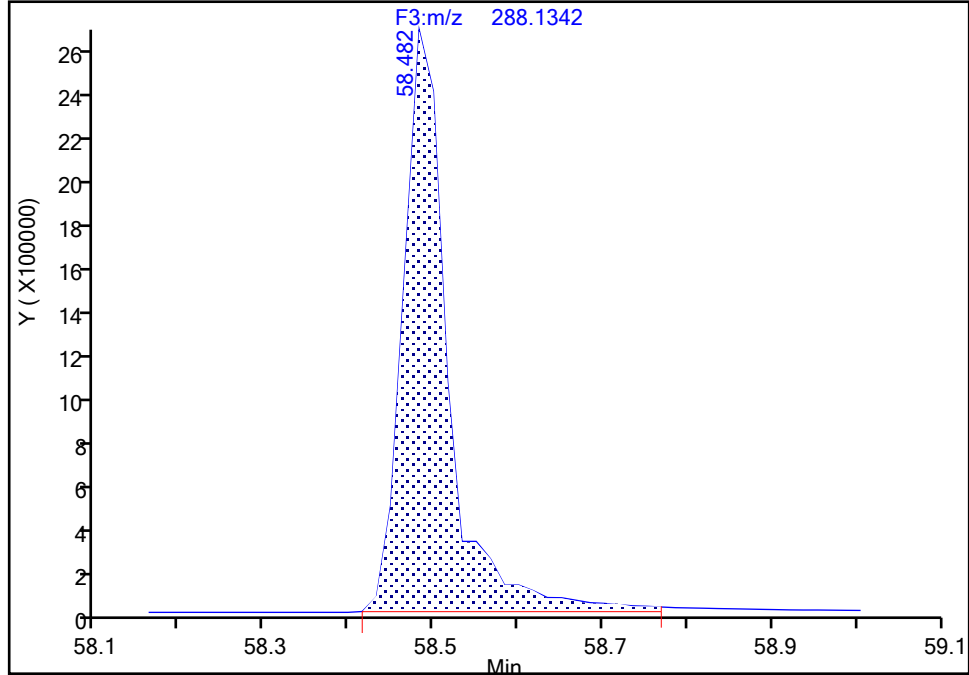
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Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

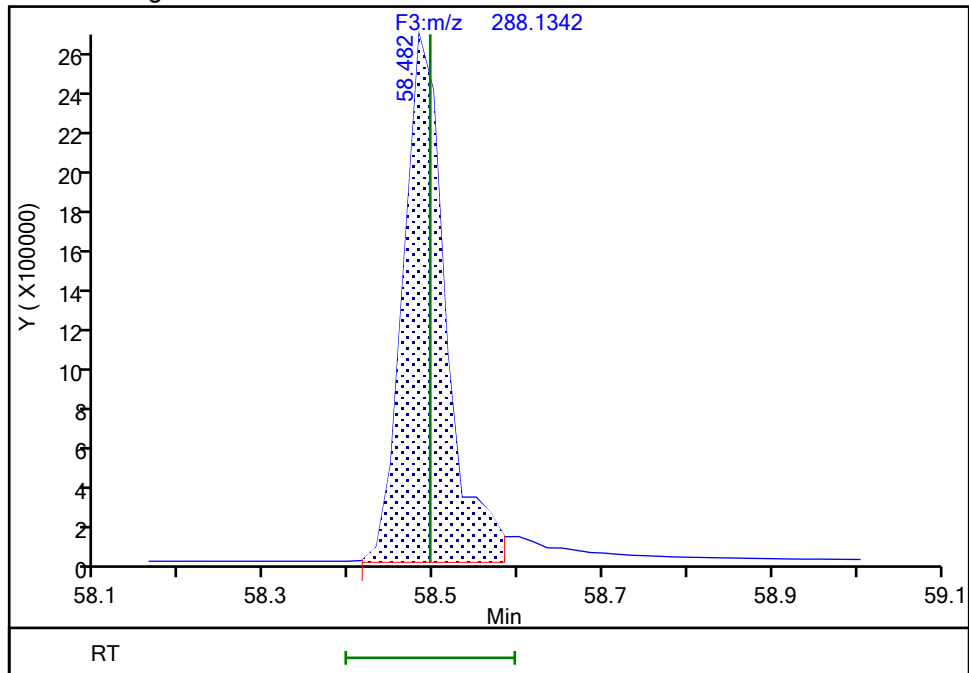
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Processing Integration Results



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Manual Integration Results



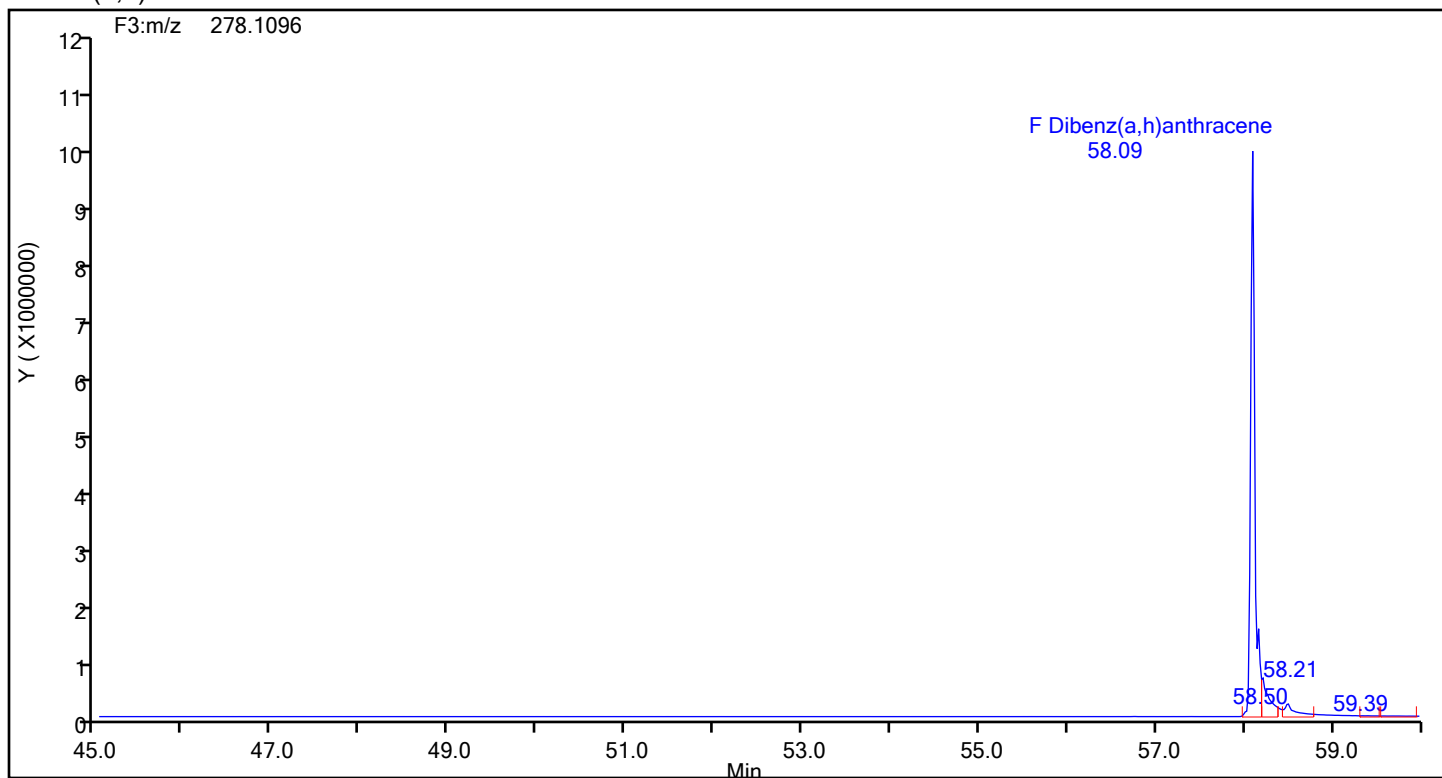
Reviewer: F9EE, 20-Jun-2024 09:39:00 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

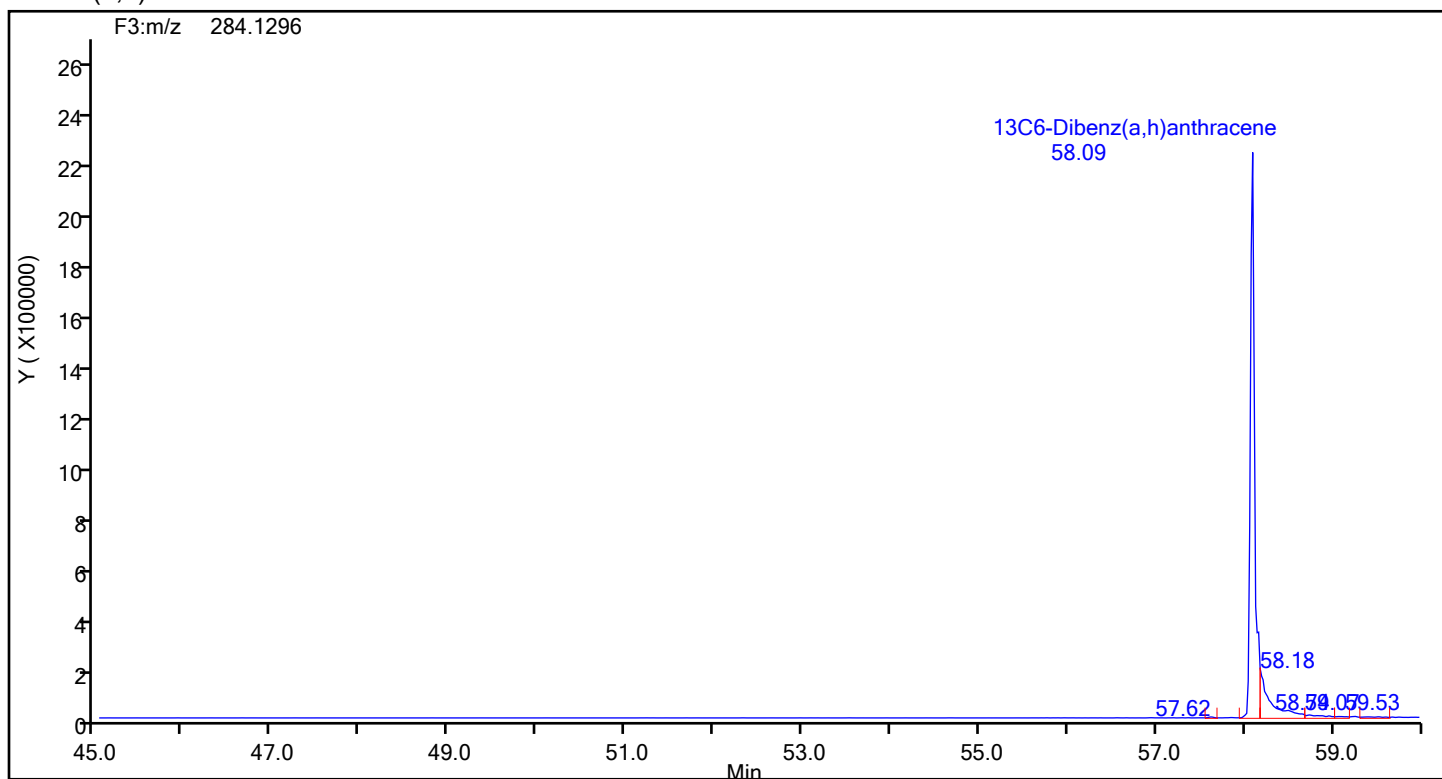
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

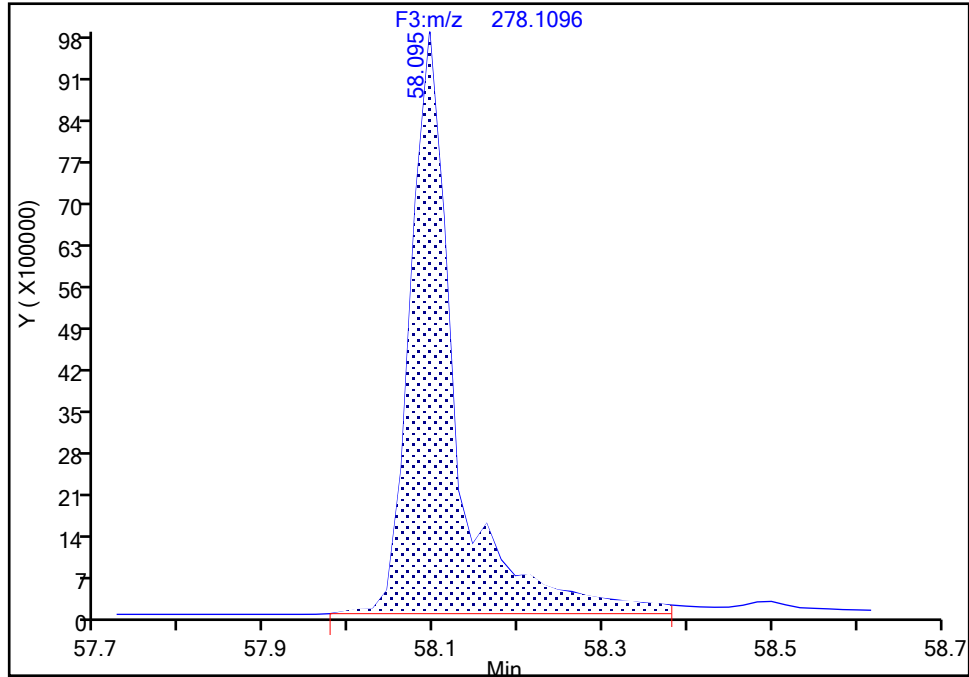
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Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

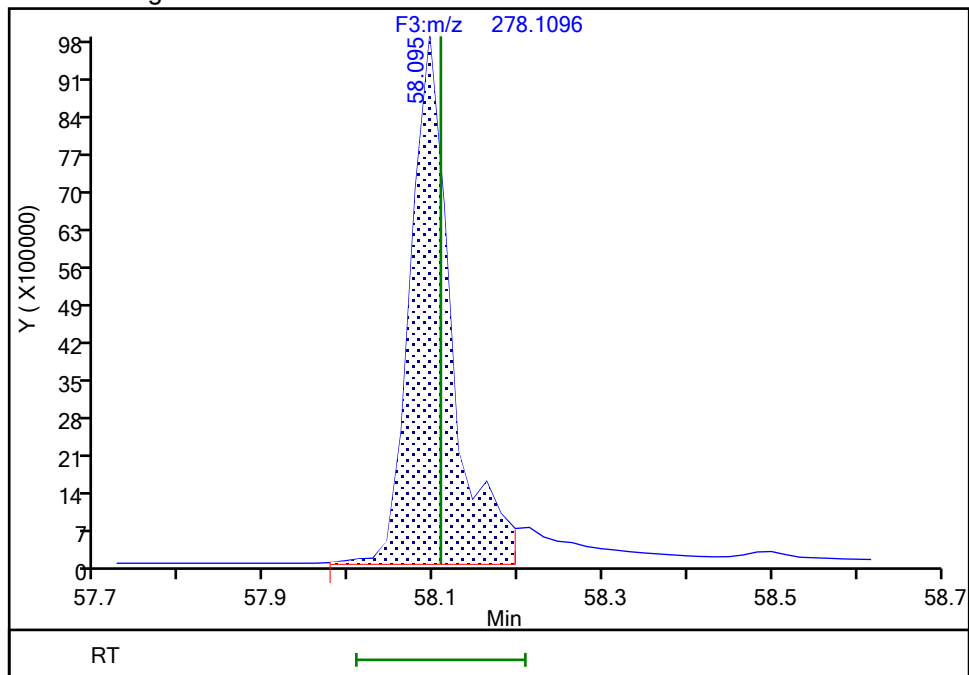
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Processing Integration Results



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Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:52 -04:00:00 (UTC)

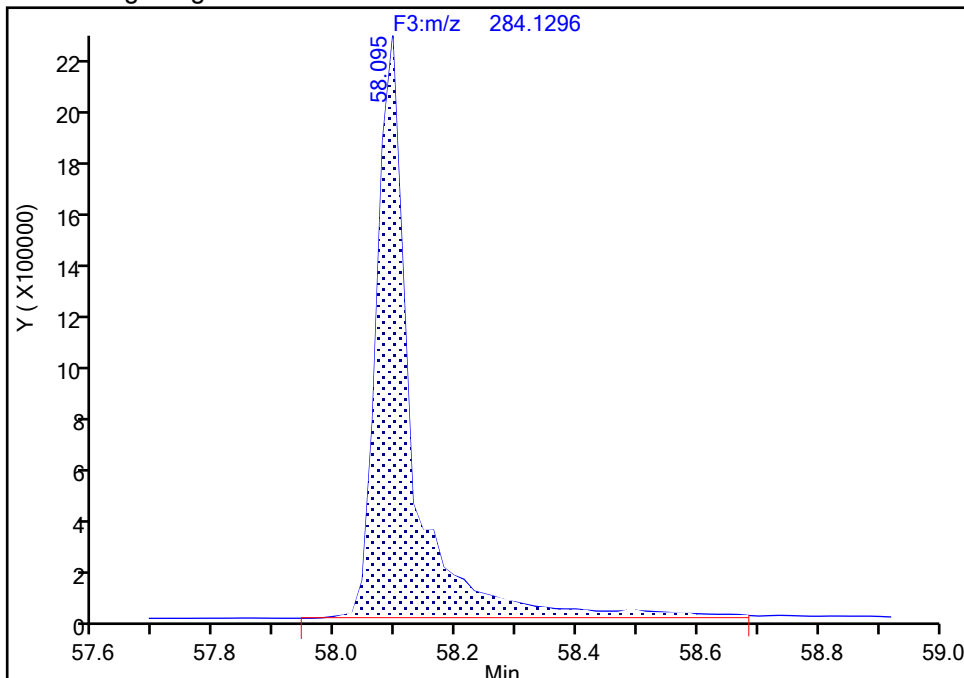
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

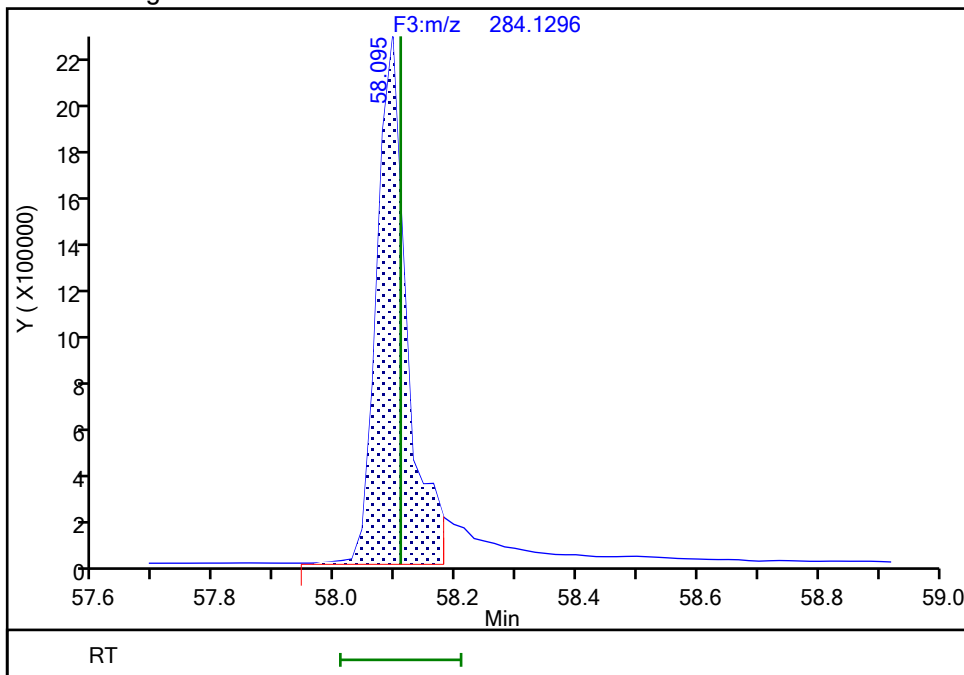
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Lims ID:	IC L8			
Client ID:				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	World
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICA	
Column:	Restek-5Sil MS 25um (0.25 mm)	Detector	F3(44.04 :59.98	

Signal: 1

Processing Integration Results



Manual Integration Results



Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
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Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 20-Jun-2024 01:09:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-009
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
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Limit Group: HR - HRPAL ICAL
Last Update: 20-Jun-2024 09:52:02 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:47:32

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	14774767		3.3746	95.0	95.0	0.005180	0.005180	95.01	
Naphthalene	11:32	201858027		1.2893	1059.7	1059.7	0.0781	0.0781	106	
D 13C6-2-Methylnaphthalene	13:51	7285064		1.6031	98.6	98.6	0.000456	0.000456	98.62	
2-Methylnaphthalene	13:51	98360151		1.2786	1056.0	1056.0	0.0146	0.0146	106	
D 13C6-Acenaphthylene	16:43	7859583		1.6520	103.2	103.2	0.001106	0.001106	103	
Acenaphthylene	16:44	121166606		2.3661	1098.3	1098.3	0.0245	0.0245	110	
* Acenaphthene-d10	17:18	4608161		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:25	4662594		0.9792	103.3	103.3	0.000933	0.000933	103	
Acenaphthene	17:26	59890100		1.2697	1011.7	1011.7	0.0255	0.0255	101	
D 13C6-Fluorene	19:43	4314043		0.8898	105.2	105.2	0.000342	0.000342	105	
Fluorene	19:43	55690348		1.2532	1030.1	1030.1	0.0231	0.0231	103	
D 13C6-Phenanthrene	25:06	6524734		0.5724	114.5	114.5	0.000939	0.000939	115	
Phenanthrene	25:06	72771385		1.1044	1009.8	1009.8	0.0255	0.0255	101	
\$ Anthracin-d10	25:19	4574361		0.4257	108.0	108.0	0.001262	0.001262	108	
D 13C6-Anthracene	25:26	5177443		0.4523	115.0	115.0	0.001188	0.001188	115	
Anthracene	25:26	71918449		1.3586	1022.4	1022.4	0.0260	0.0260	102	
D 13C6-Fluoranthrene	33:51	13148739		1.1994	110.1	110.1	0.0166	0.0166	110	
Fluoranthene	33:52	162763939		1.1513	1075.2	1075.2	0.0208	0.0208	108	
* Pyrene-d10	35:24	9953605		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:33	15391681		1.3512	114.4	114.4	0.009623	0.009623	114	
Pyrene	35:33	171639473		1.0652	1046.9	1046.9	0.0202	0.0202	105	
\$ 13C6-Benzo(c)fluorene	39:15	4981238		0.5136	97.4	97.4	0.002825	0.002825	97.44	
D 13C6-Benzo(a)anthracene	46:05	12260100		1.5189	111.9	111.9	0.0105	0.0105	112	
Benzo[a]anthracene	46:05	124165534		0.9739	1039.9	1039.9	0.0444	0.0444	104	
D 13C6-Chrysene	46:21	13421719		1.6287	114.3	114.3	0.009785	0.009785	114	
Chrysene	46:21	134817195		0.9815	1023.5	1023.5	0.0409	0.0409	102	
D 13C6-Benzo(b)fluoranthene	54:38	12410189		1.4621	117.7	117.7	0.000950	0.000950	118	
Benzo[b]fluoranthene	54:38	155779264		1.1249	1115.9	1115.9	0.005269	0.005269	112	
\$ 13C12-Benzo(j)fluoranthene	54:40	11887745		1.3558	121.6	121.6	0.0121	0.0121	122	
D 13C6-Benzo(k)fluoranthene	54:45	16130058		1.7507	127.8	127.8	0.000794	0.000794	128	
Benzo[k]fluoranthene	54:46	180500584		1.1271	992.9	992.9	0.004443	0.004443	99.29	
* Benzo(e)pyrene-d12	55:28	7211924		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:33	14222064		1.6368	120.5	120.5	0.009604	0.009604	120	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:33	156044174		1.0013	1095.8	1095.8	0.004323	0.004323	110	
Benzo[a]pyrene	55:42	158831908		1.1130	985.6	985.6	0.004552	0.004552	98.56	
D 13C4-Benzo(a)pyrene	55:41	14479273		1.5508	129.5	129.5	0.0101	0.0101	129	
D Perylene-d12	55:52	9436646		1.1917	109.8	109.8	0.0128	0.0128	110	
Perylene	55:57	179211720		1.4307	1327.4	1327.4	0.005164	0.005164	133	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	8585756		1.0218	116.5	116.5	0.007947	0.007947	117	
Indeno[1,2,3-cd]pyrene	58:01	113067905		1.1249	1170.7	1170.7	0.006481	0.006481	117	M
D 13C6-Dibenz(a,h)anthracene	58:05	9436274		1.0553	124.0	124.0	0.005350	0.005350	124	M
Dibenz(a,h)anthracene	58:05	110582572		1.1314	1035.8	1035.8	0.005350	0.005350	104	M
D 13C12-Benzo(ghi)perylene	58:29	11042946		1.2749	120.1	120.1	0.003985	0.003985	120	M
Benzo[g,h,i]perylene	58:29	147488032		1.2838	1040.4	1040.4	0.004891	0.004891	104	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS7_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

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Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-009
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Sublist: chrom-EPA_23__PAH*sub1
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Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:52:02 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:47:32

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:33	-1	0.666	14774767	5075353	115	287	44134		
Naphthalene											
128.0626	11:32	11:34	-2	1.000	201858027	75720333	2044	5110	37045		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:52	-1	0.800	7285064	3487207	5	12	697441		
2-Methylnaphthalene											
142.0783	13:51	13:53	-2	1.000	98360151	48803300	260	650	187705		
13C6-Acenaphthylene											
158.0828	16:43	16:45	-2	0.966	7859583	2853768	12	30	237814		
Acenaphthylene											
152.0626	16:44	16:45	-1	1.000	121166606	45941648	377	942	121861		
Acenaphthene-d10											
164.1404	17:18	17:20	-2		4608161	1641835	1	2	1641835		
13C6-Acenaphthene											
160.0984	17:25	17:27	-2	1.007	4662594	1626235	6	15	271039		
Acenaphthene											
154.0783	17:26	17:27	-1	1.001	59890100	22203742	211	527	105231		
13C6-Fluorene											
172.0984	19:43	19:45	-2	1.139	4314043	1349147	2	5	674574		
Fluorene											
166.0783	19:43	19:45	-1	1.001	55690348	17483856	156	390	112076		
13C6-Phenanthrene											
184.0984	25:06	25:08	-2	0.709	6524734	1529385	4	10	382346		
Phenanthrene											
178.0783	25:06	25:08	-2	1.000	72771385	18115584	172	430	105323		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:19	25:21	-3	0.715	4574361	1065461	4	10	266365		
13C6-Anthracene											
184.0984	25:26	25:28	-2	0.718	5177443	1219654	4	10	304914		
Anthracene											
178.0783	25:26	25:28	-2	1.000	71918449	17498624	172	430	101736		
13C6-Fluoranthrene											
208.0984	33:51	33:54	-3	0.956	13148739	2677473	148	370	18091		
Fluoranthene											
202.0783	33:52	33:54	-2	1.000	162763939	35373186	256	640	138177		
Pyrene-d10											
212.1404	35:24	35:27	-3		9953605	1861110	59	147	31544		
13C3-Pyrene											
205.0883	35:33	35:35	-2	1.004	15391681	2978975	97	242	30711		
Pyrene											
202.0783	35:33	35:35	-2	1.000	171639473	35747469	256	640	139639		
13C6-Benzo(c)fluorene											
222.1134	39:15	39:18	-3	0.708	4981238	919788	11	27	83617		
13C6-Benzo(a)anthracene											
234.1140	46:05	46:07	-2	1.302	12260100	2255206	147	367	15342		
Benzo[a]anthracene											
228.0939	46:05	46:07	-2	1.000	124165534	23766409	390	975	60940		
13C6-Chrysene											
234.1140	46:21	46:24	-2	1.310	13421719	2427915	147	367	16516		
Chrysene											
228.0939	46:21	46:25	-3	1.000	134817195	25201289	390	975	64619		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	12410189	3576558	13	32	275120		
Benzo[b]fluoranthene											
252.0939	54:38	54:40	-2	1.000	155779264	44191411	85	212	519899		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	11887745	3118662	151	377	20653		
13C6-Benzo(k)fluoranthene											
258.1140	54:45	54:47	-2	0.987	16130058	4233691	13	32	325669		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	180500584	50269875	85	212	591410		
Benzo(e)pyrene-d12											
264.1692	55:28	55:30	-2		7211924	2302707	141	352	16331		
13C4-Benzo(e)pyrene											
256.1073	55:33	55:35	-2	1.002	14222064	4897285	145	362	33774		
Benzo[e]pyrene											
252.0939	55:33	55:35	-2	1.000	156044174	54451536	85	212	640606		
Benzo[a]pyrene											
252.0939	55:42	55:44	-1	1.000	158831908	53036103	85	212	623954		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:41	55:44	-2	1.004	14479273	4184053	145	362	28856		
Perylene-d12											
264.1692	55:52	55:54	-2	1.007	9436646	2869477	141	352	20351		
Perylene											
252.0939	55:57	55:58	-1	1.002	179211720	59244250	85	212	696991		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	8585756	2880154	75	187	38402		
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	113067905	36563722	84	210	435282		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:05	58:07	-2	1.047	9436274	2676473	52	130	51471		M
Dibenz(a,h)anthracene											
278.1096	58:05	58:07	-2	1.000	110582572	31259898	65	162	480922		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	11042946	3344331	47	117	71156		M
Benzo[g,h,i]perylene											
276.0939	58:29	58:31	-2	1.000	147488032	46166538	84	210	549602		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS7_00002

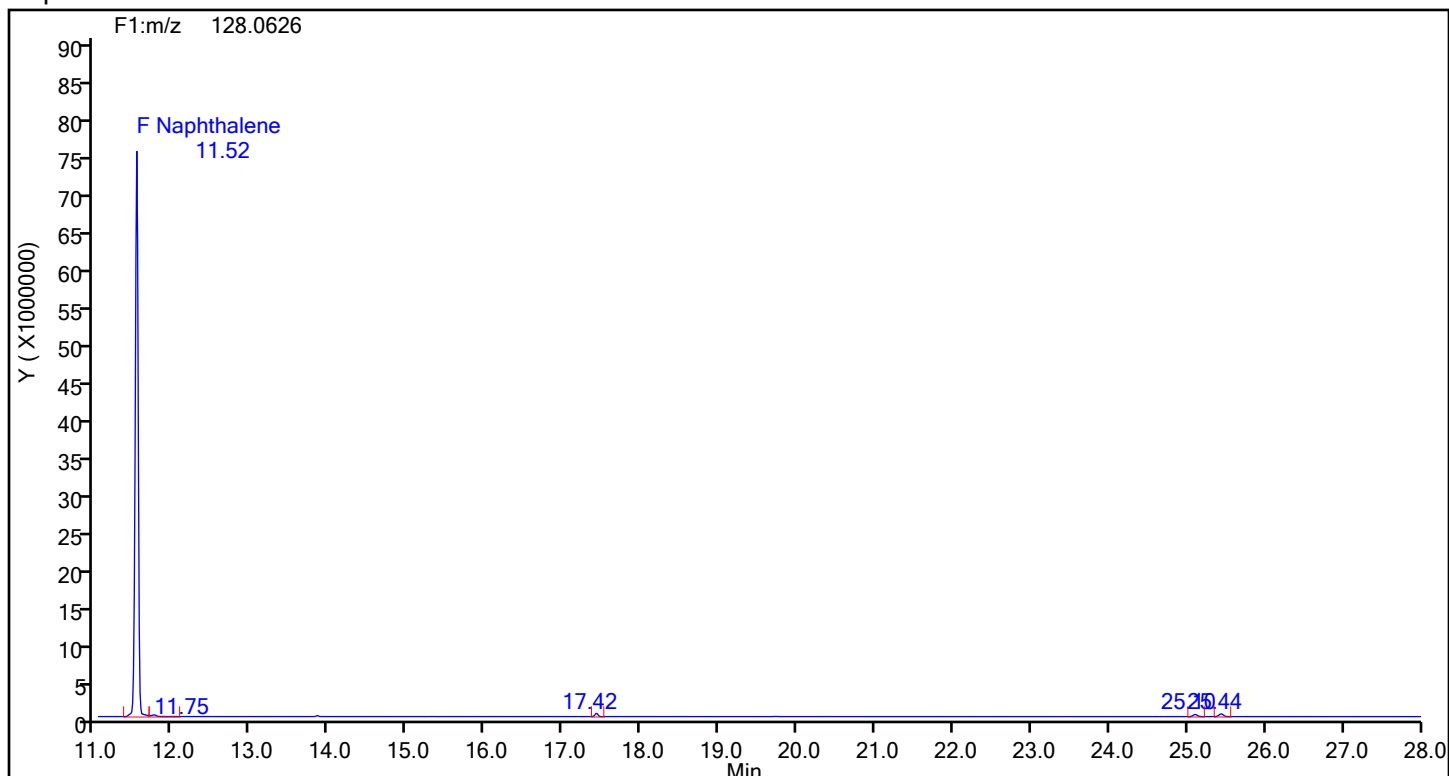
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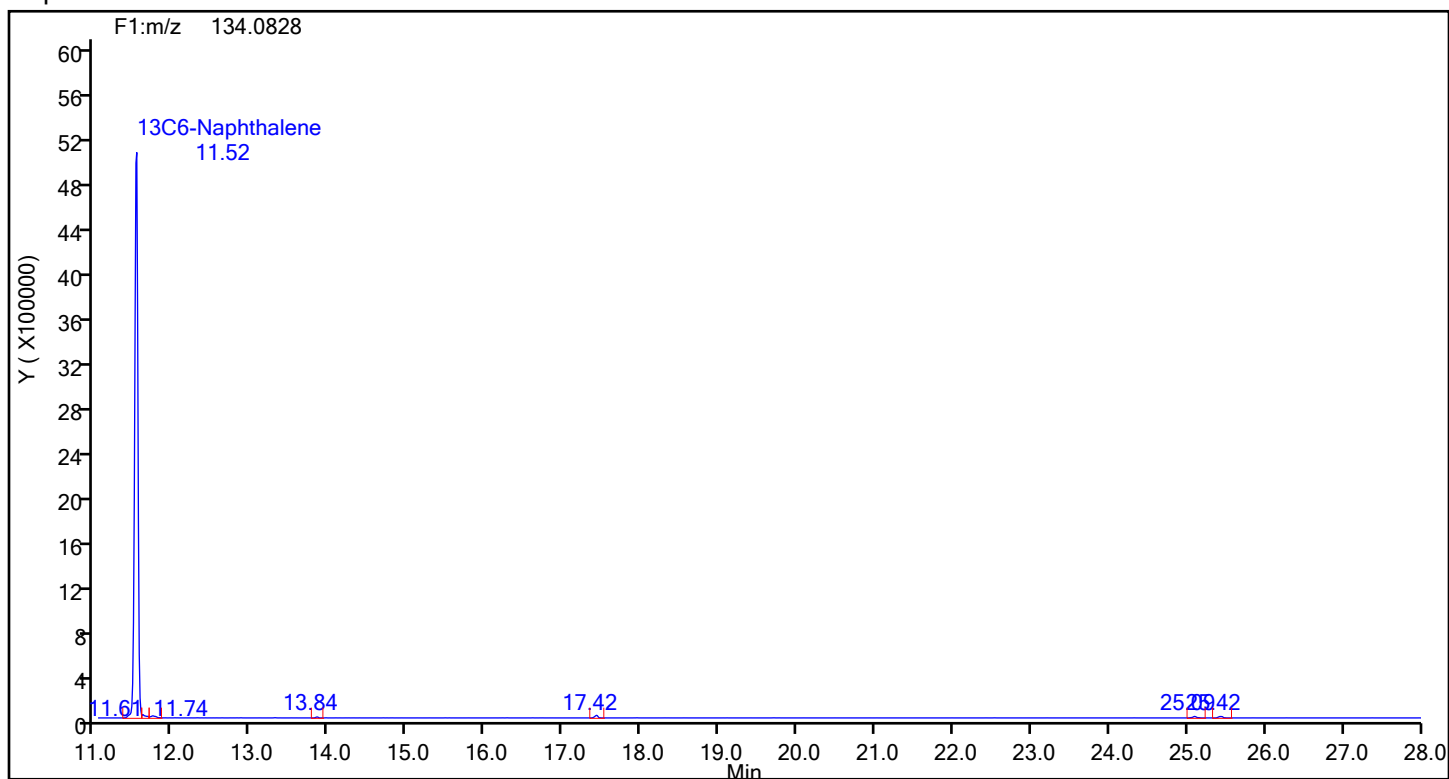
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



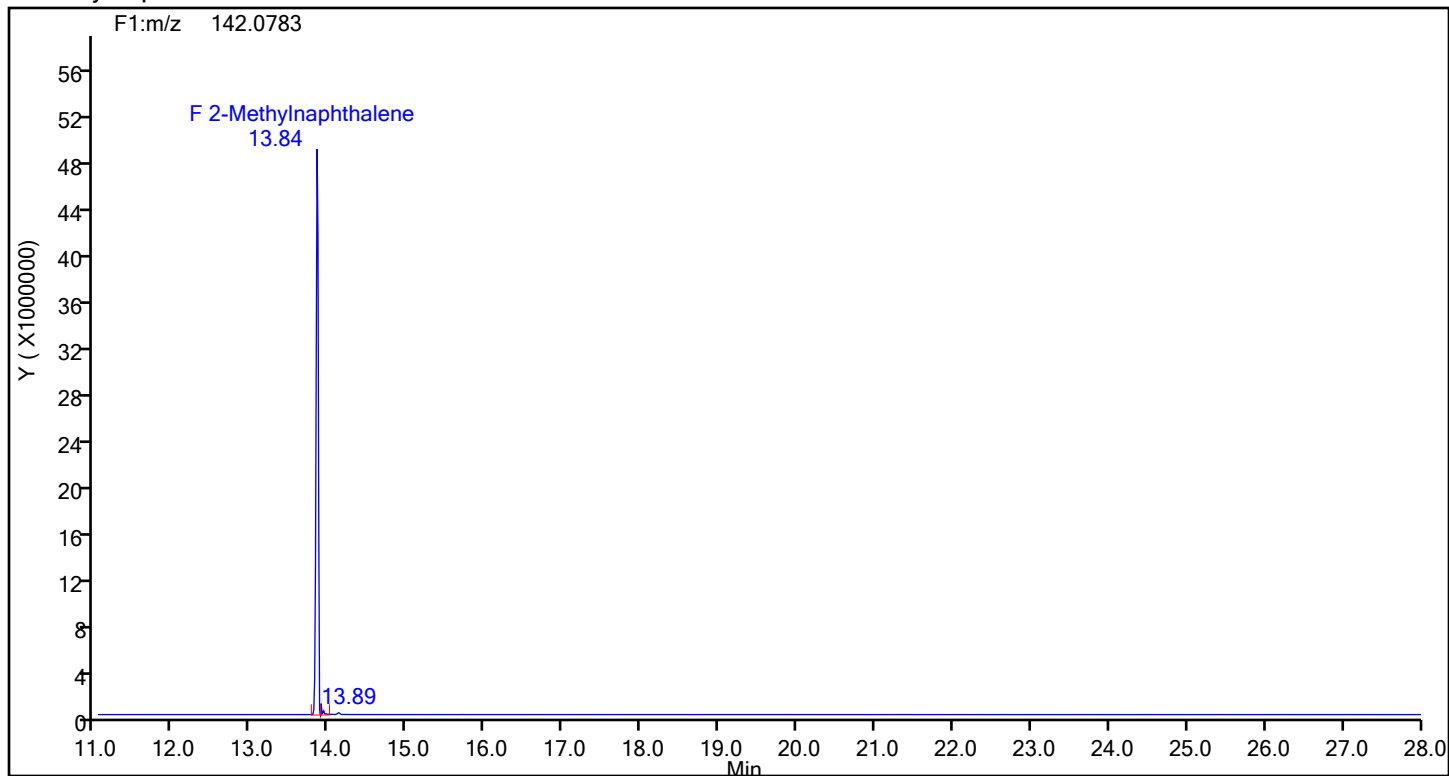
Naphthalene Standards



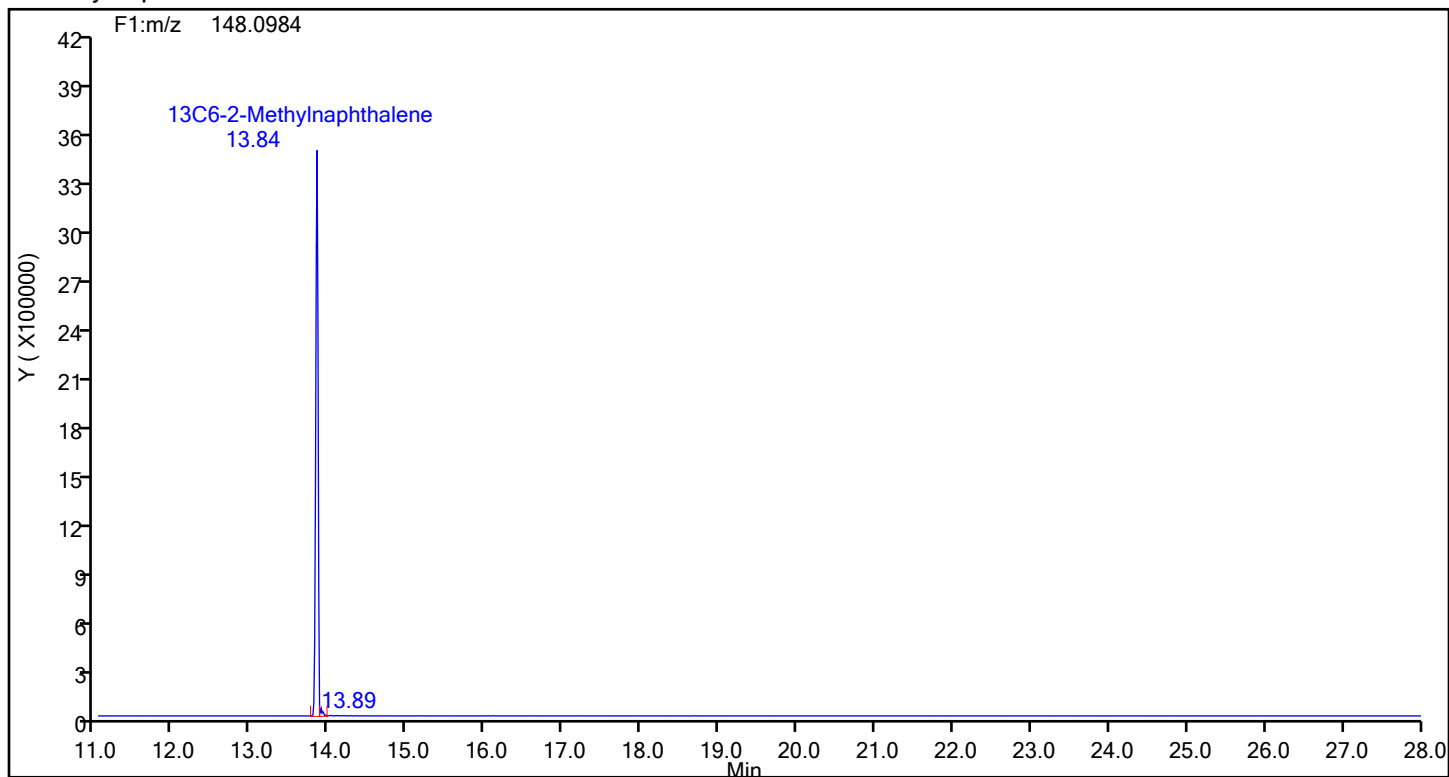
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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



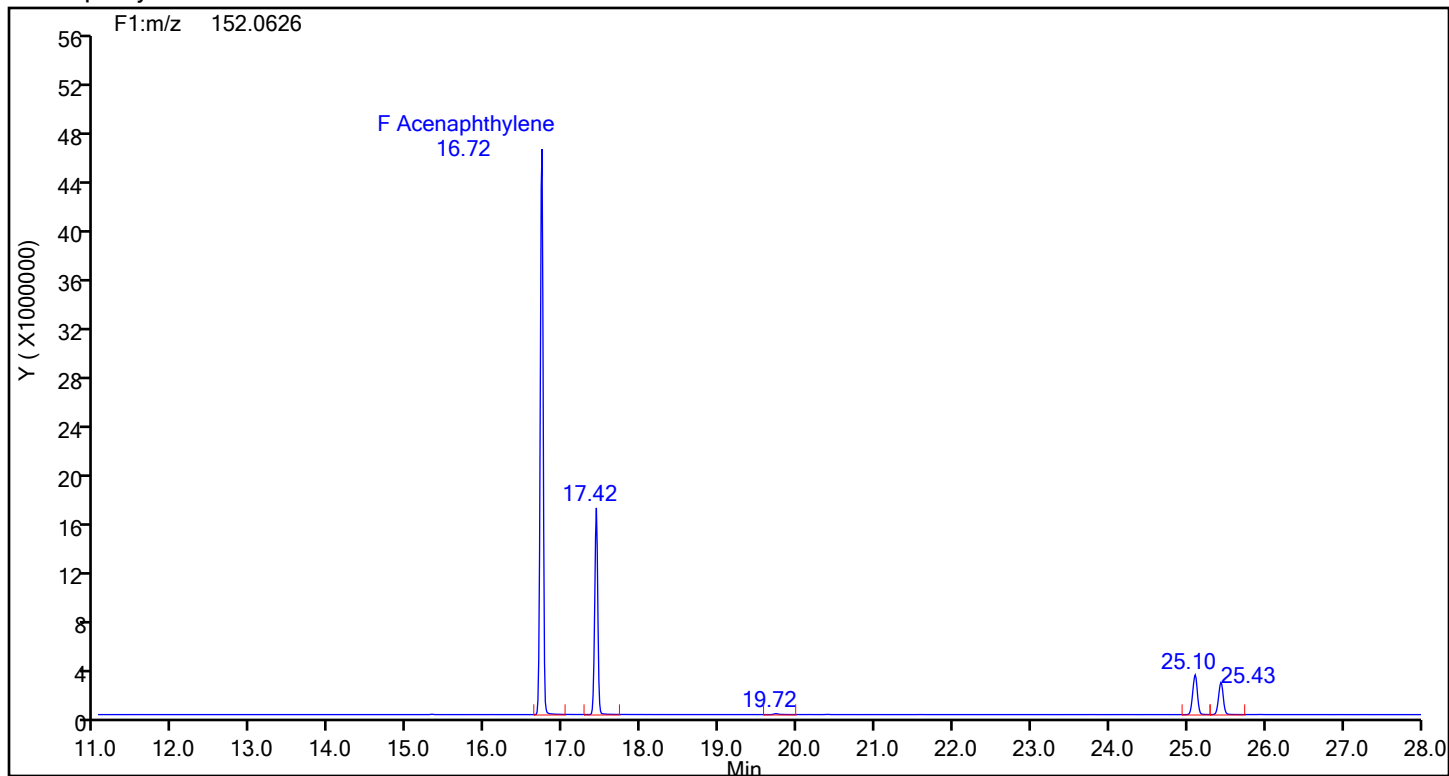
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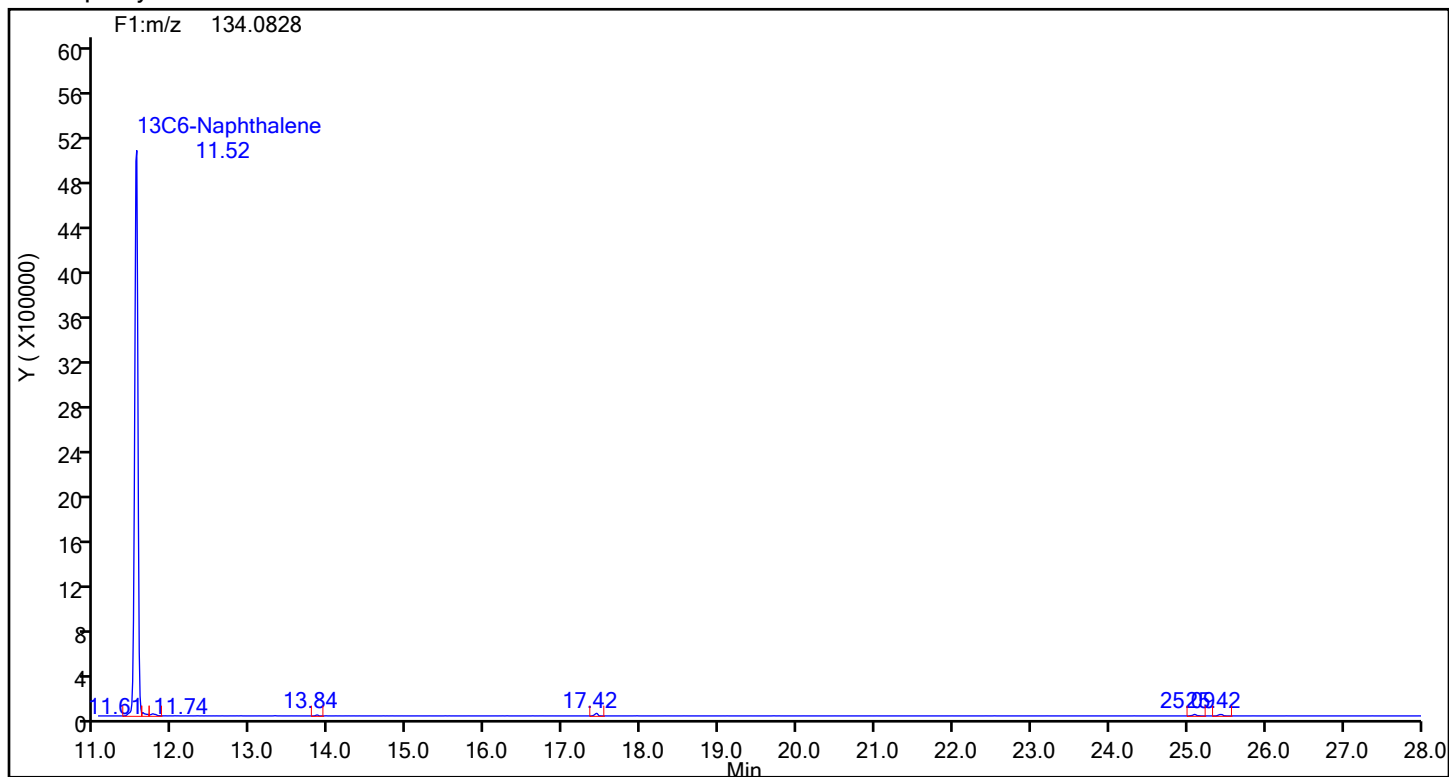
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene

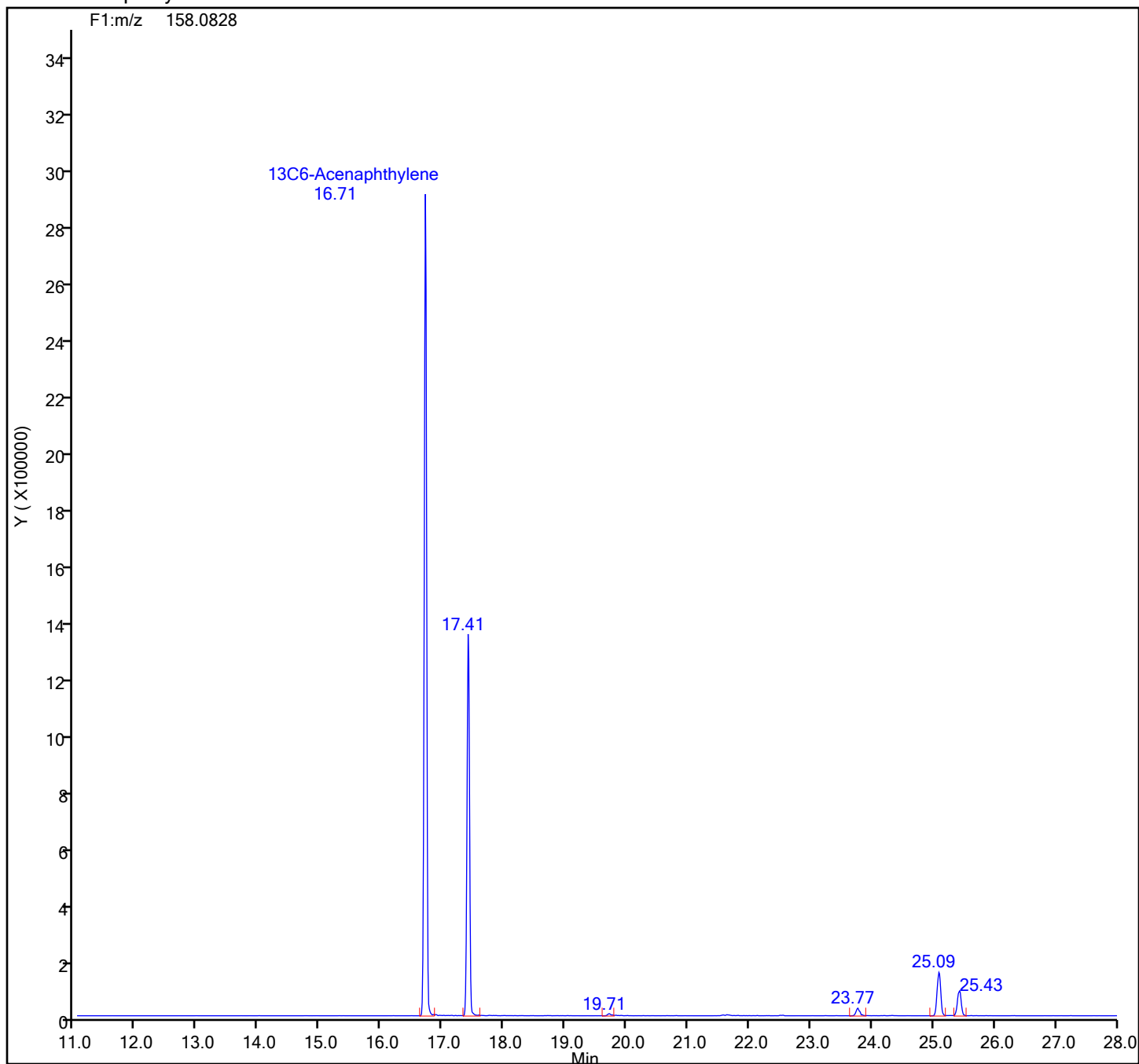


Acenaphthylene Standards



Eurofins Knoxville

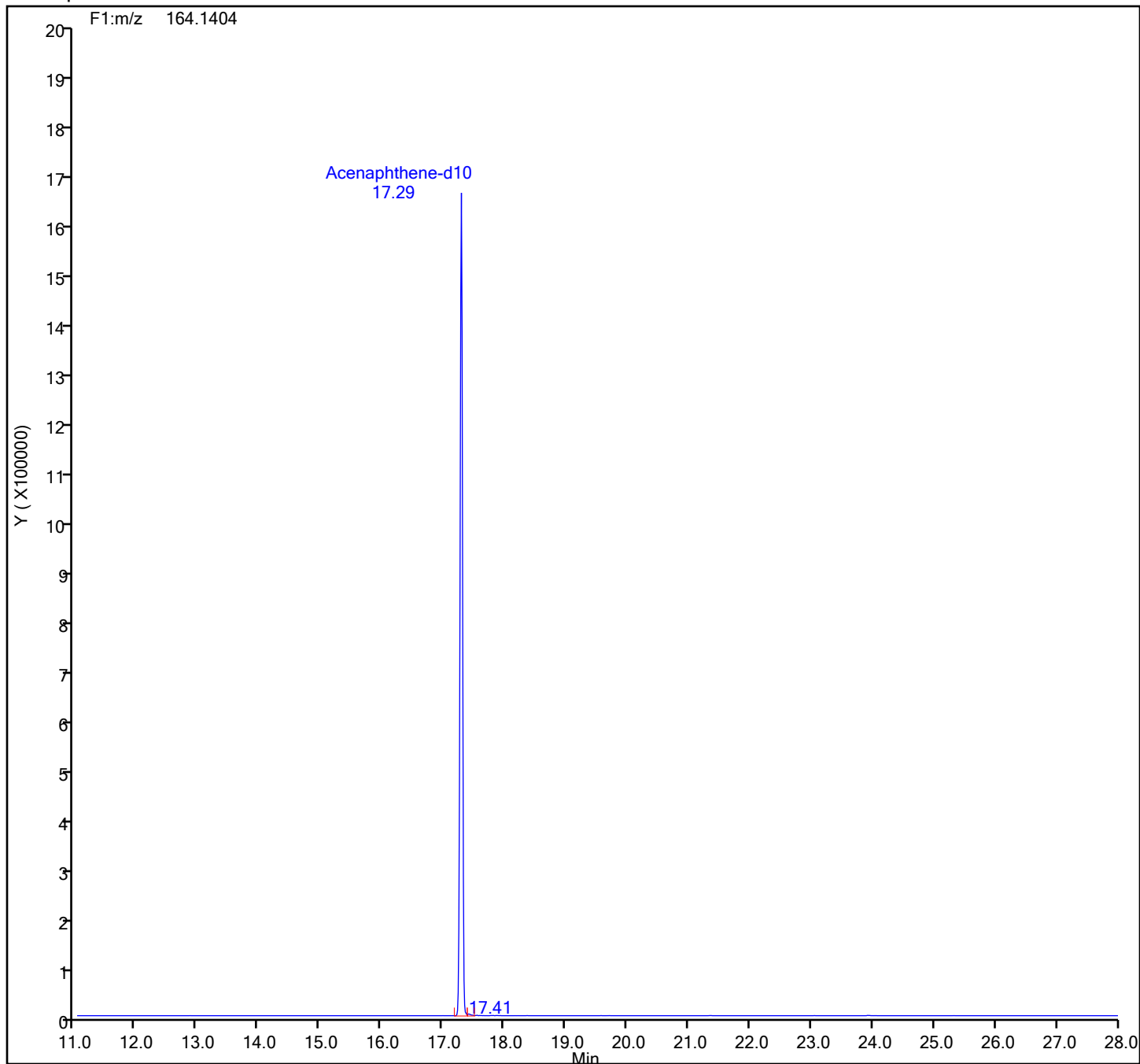
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C6-Acenaphthylene Standards



Eurofins Knoxville

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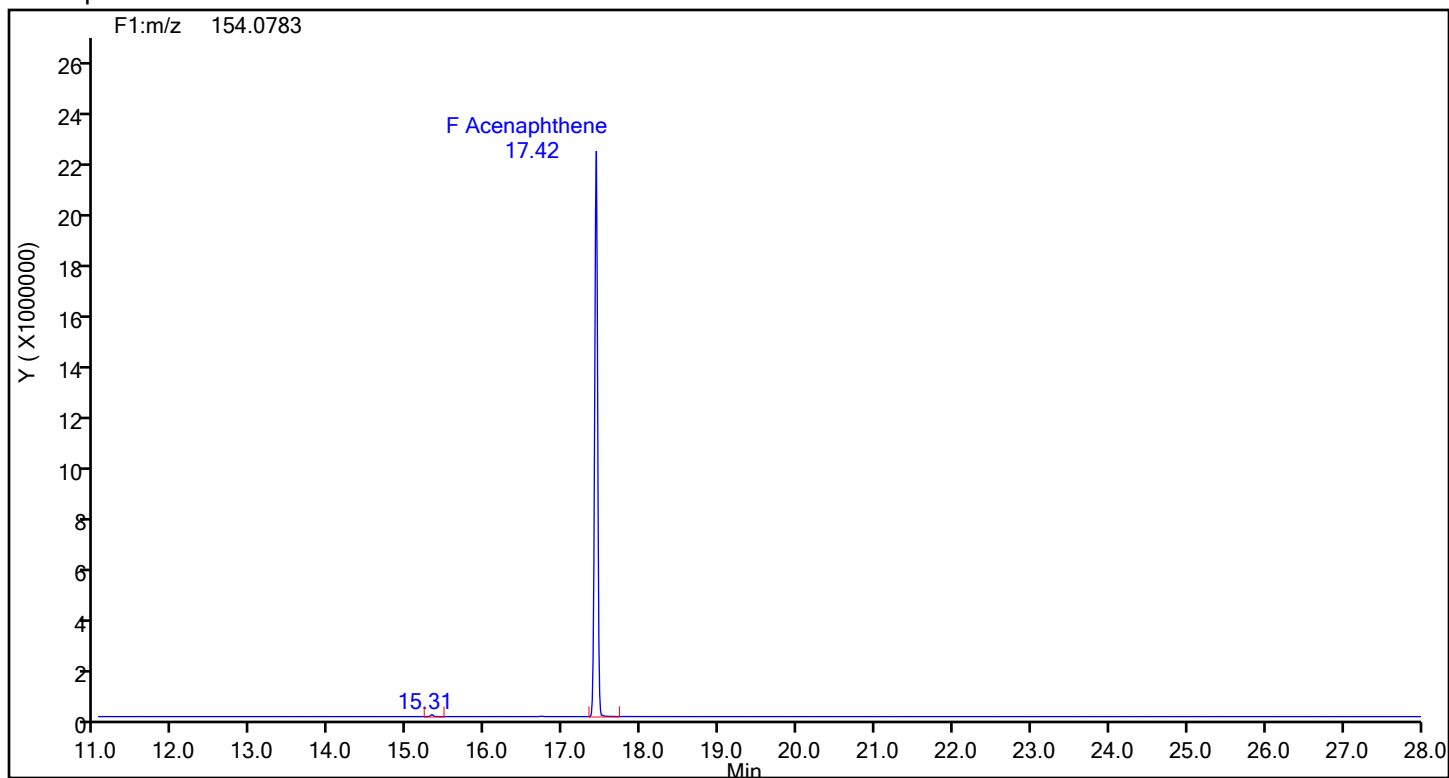
Acenaphthene-d10 Standards



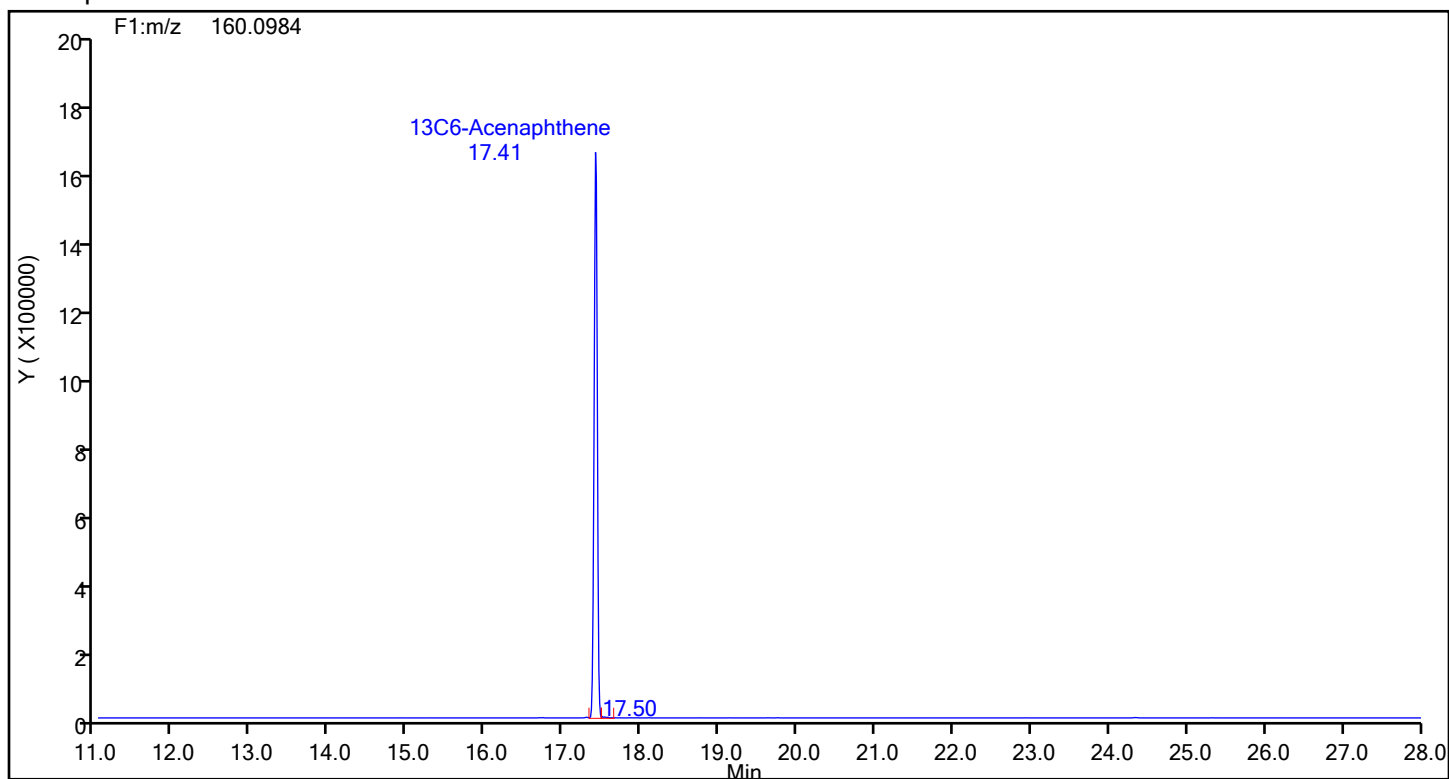
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Acenaphthene



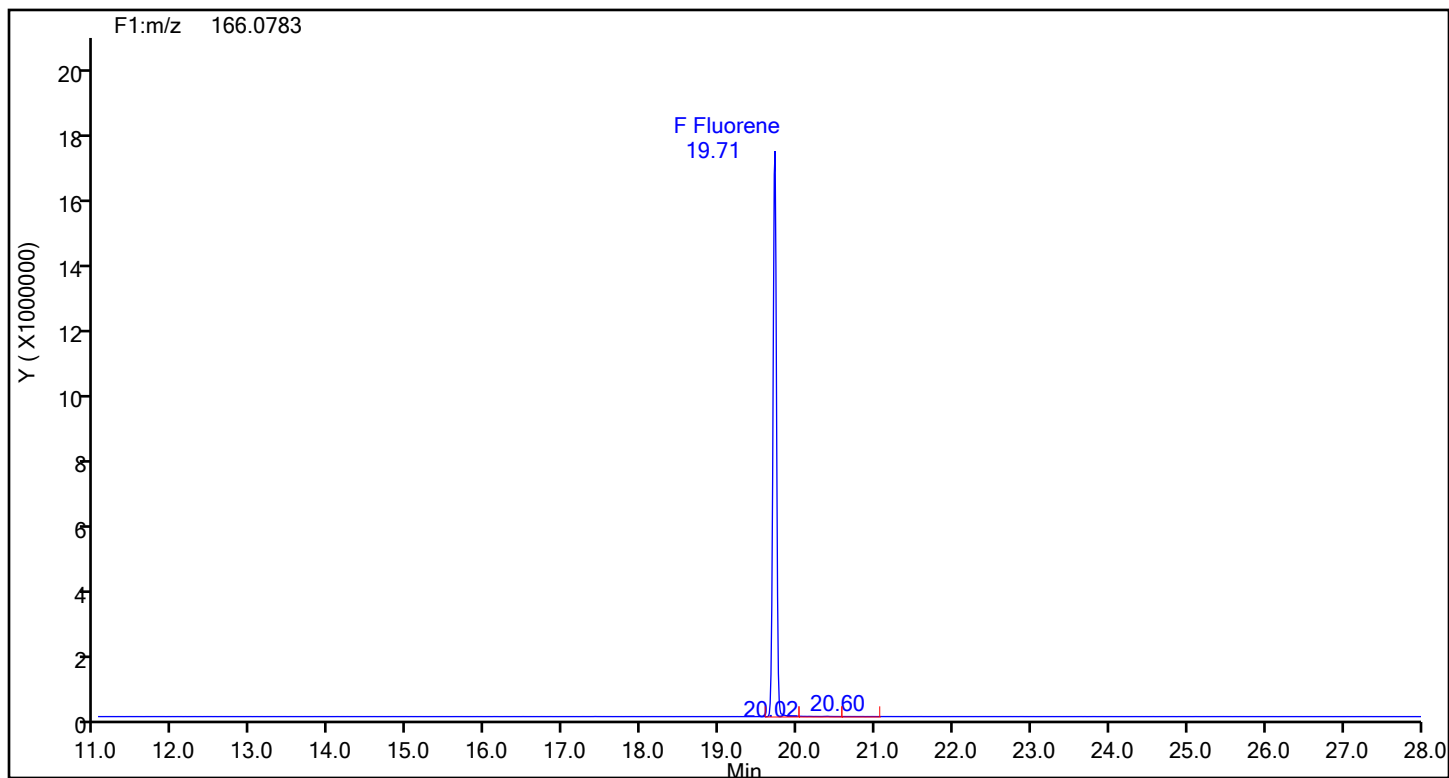
Acenaphthene Standards



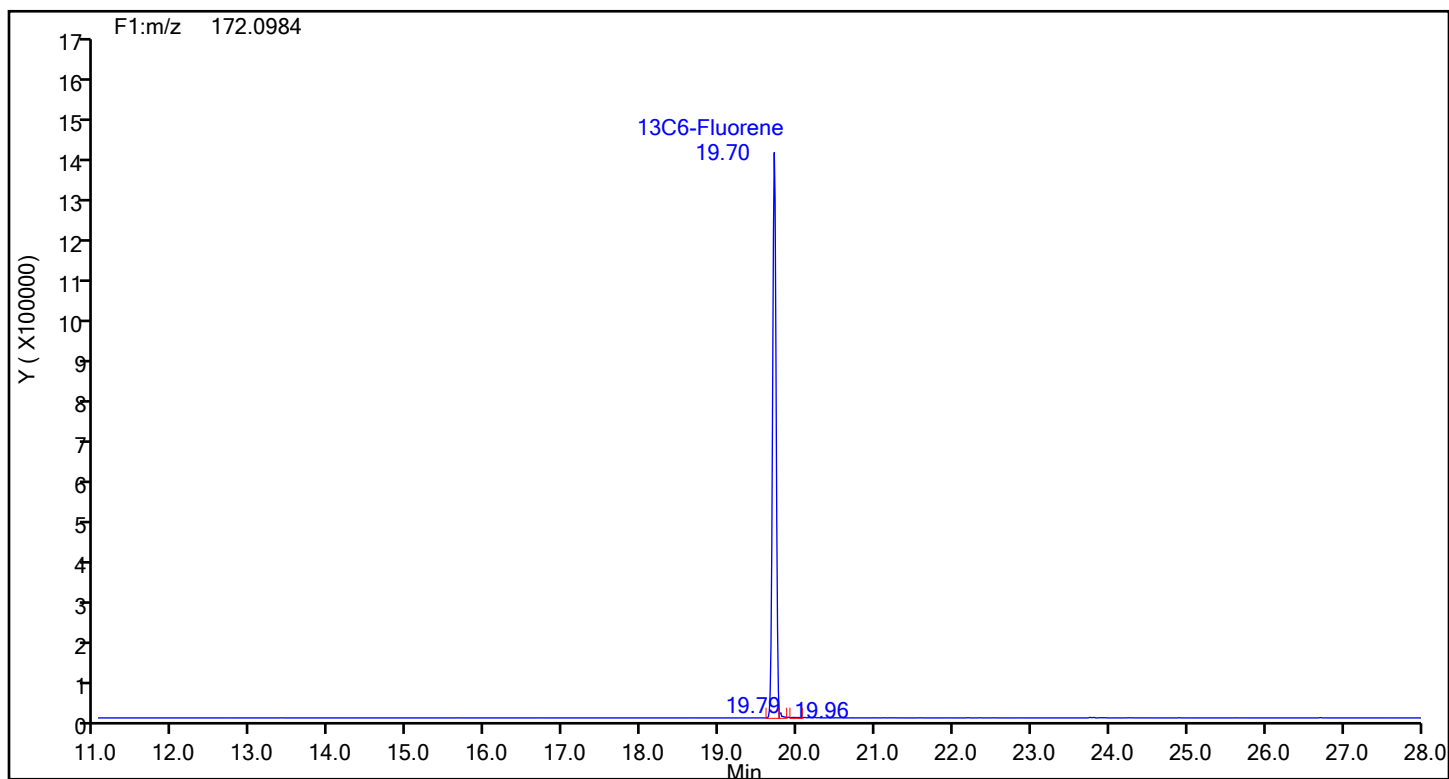
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



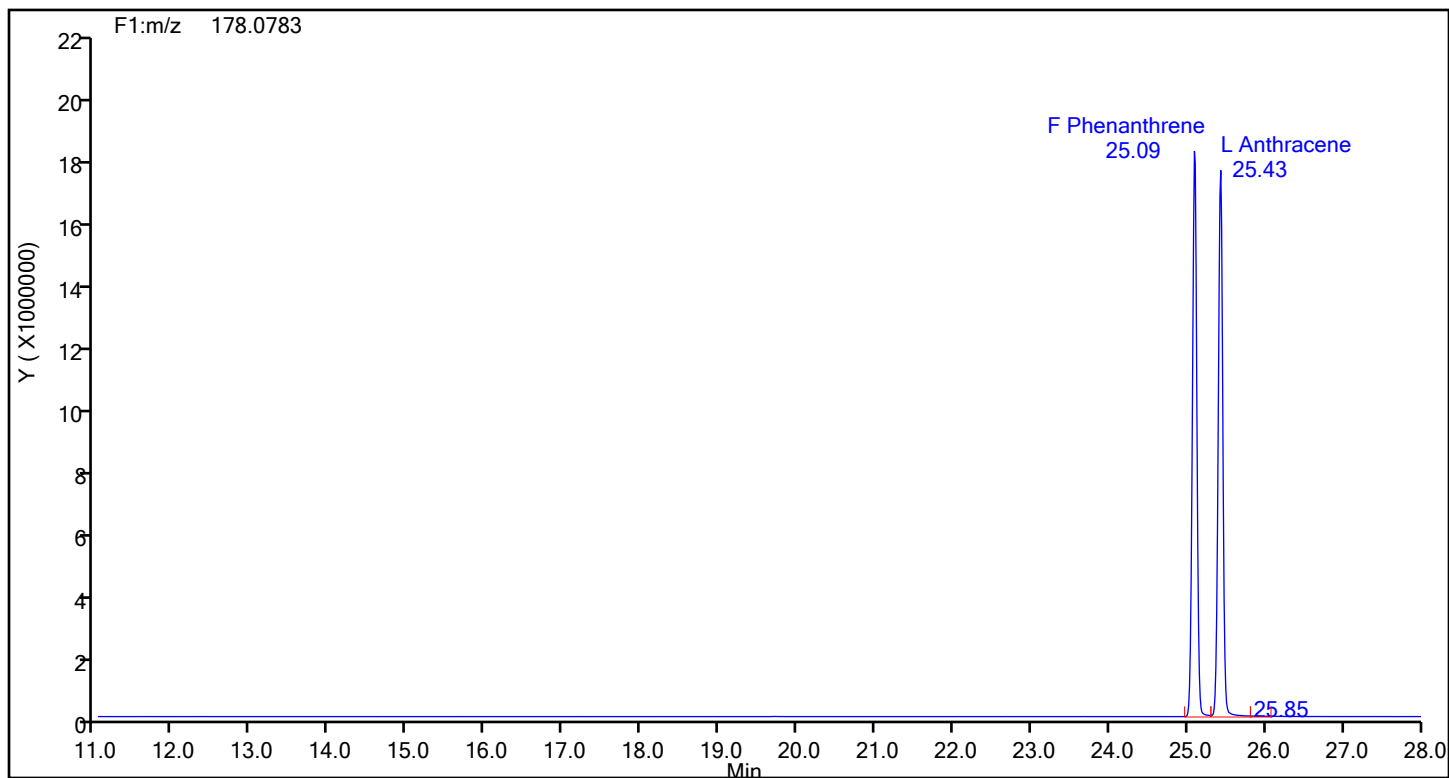
Fluorene Standards



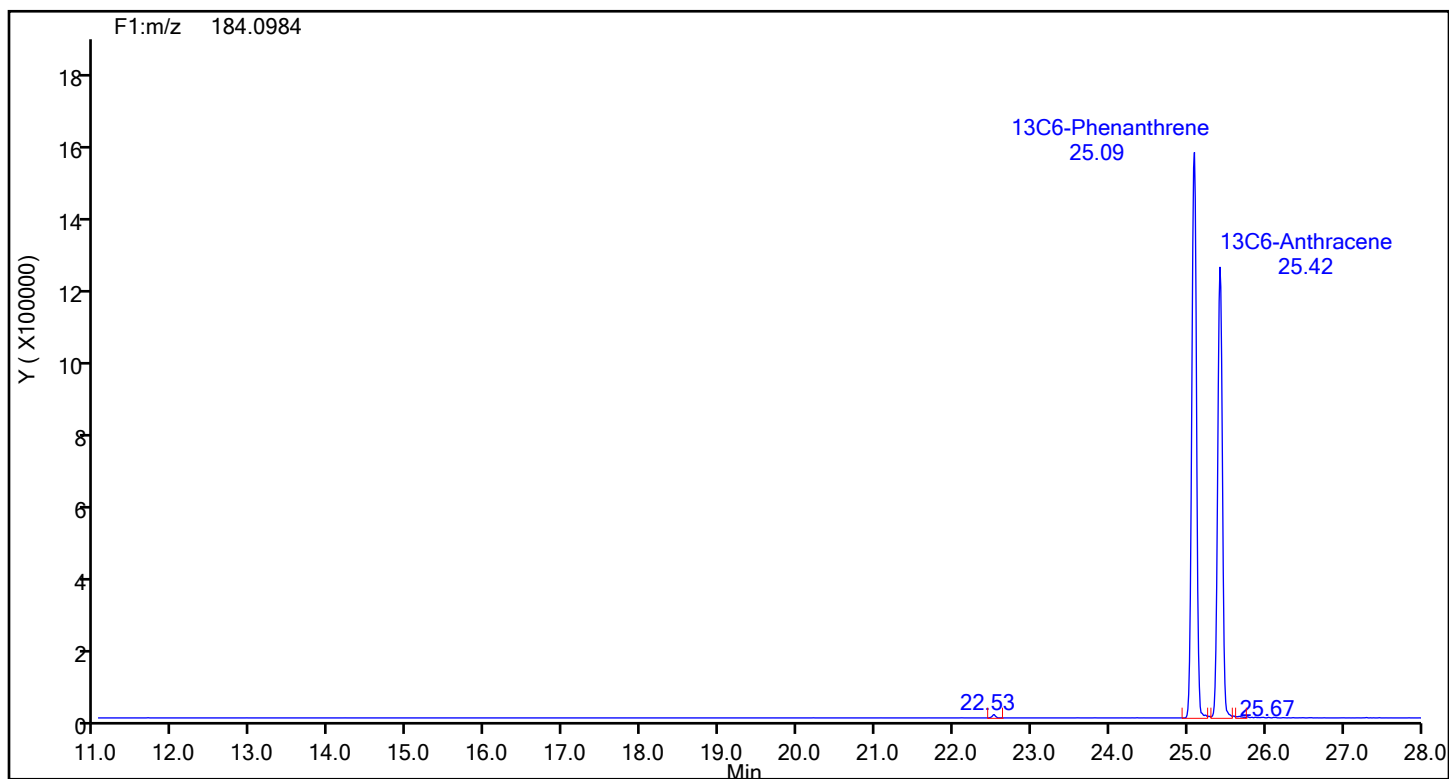
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

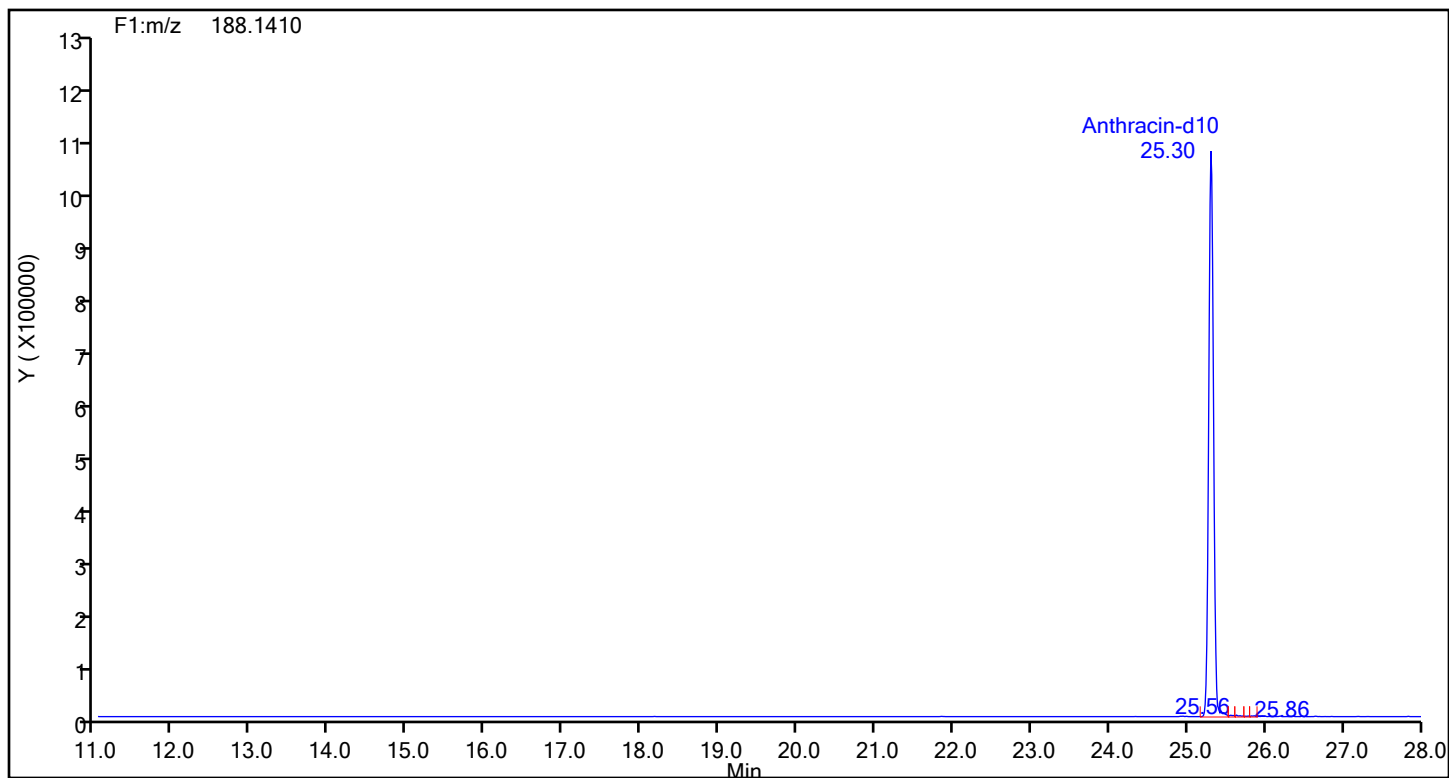


Phenanthrene Standards

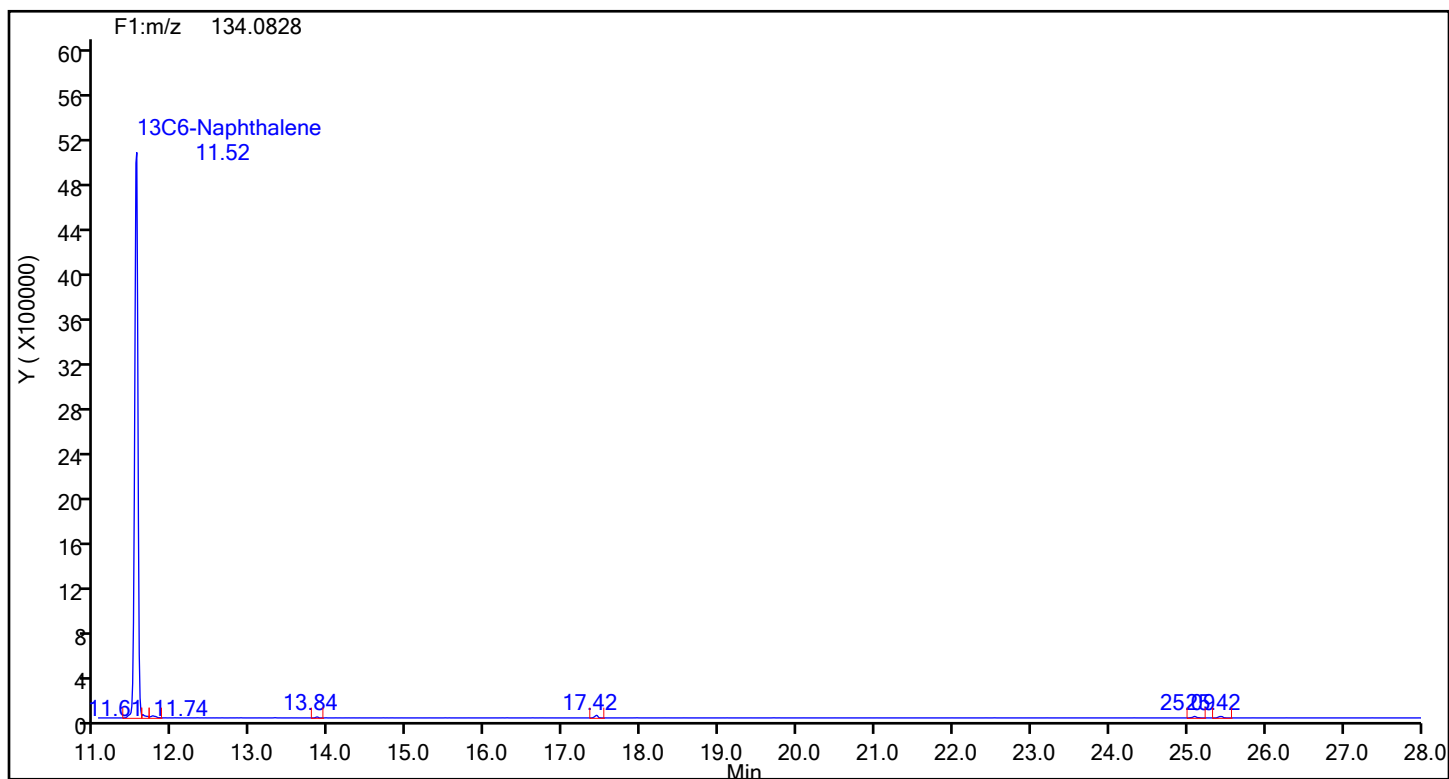


Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

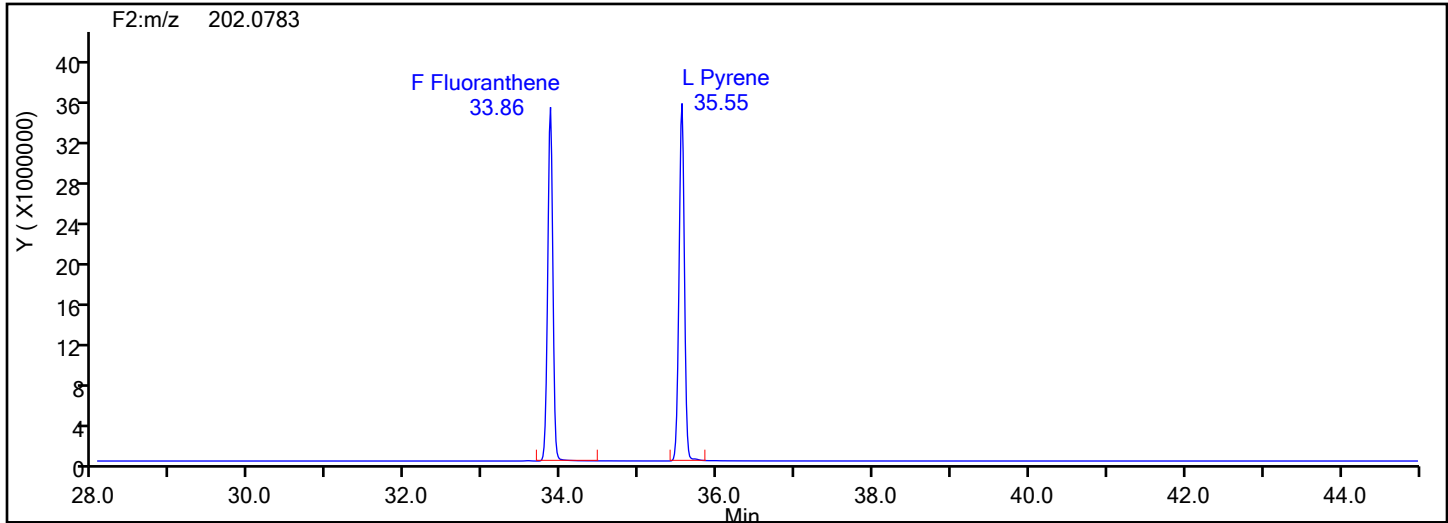


Anthracin-d10 Standards

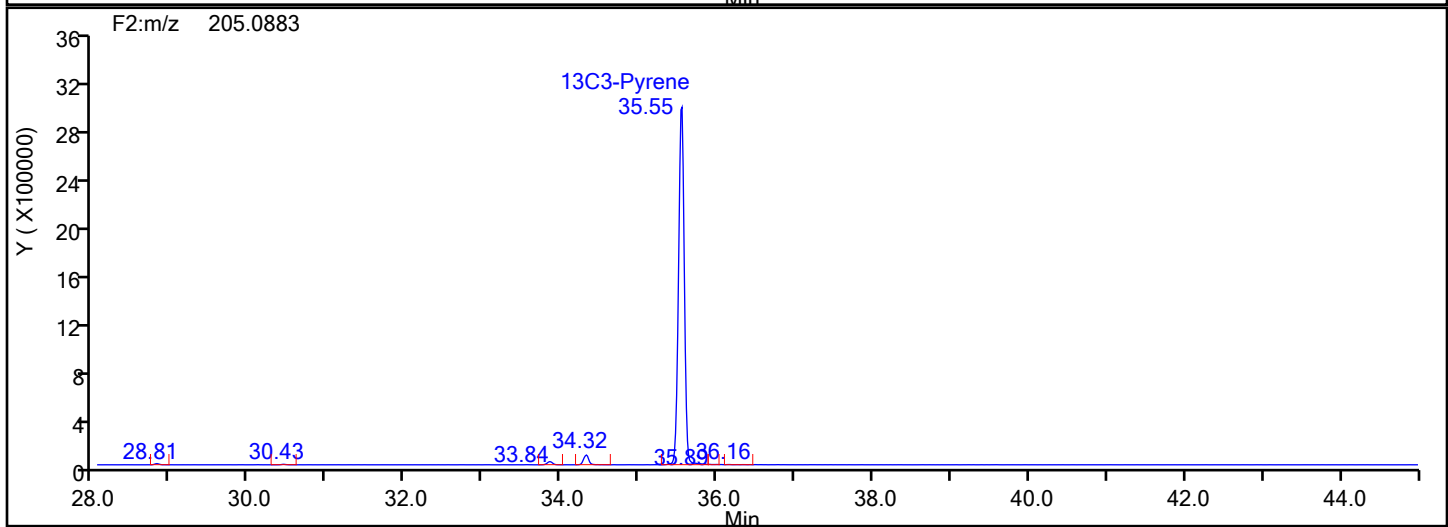
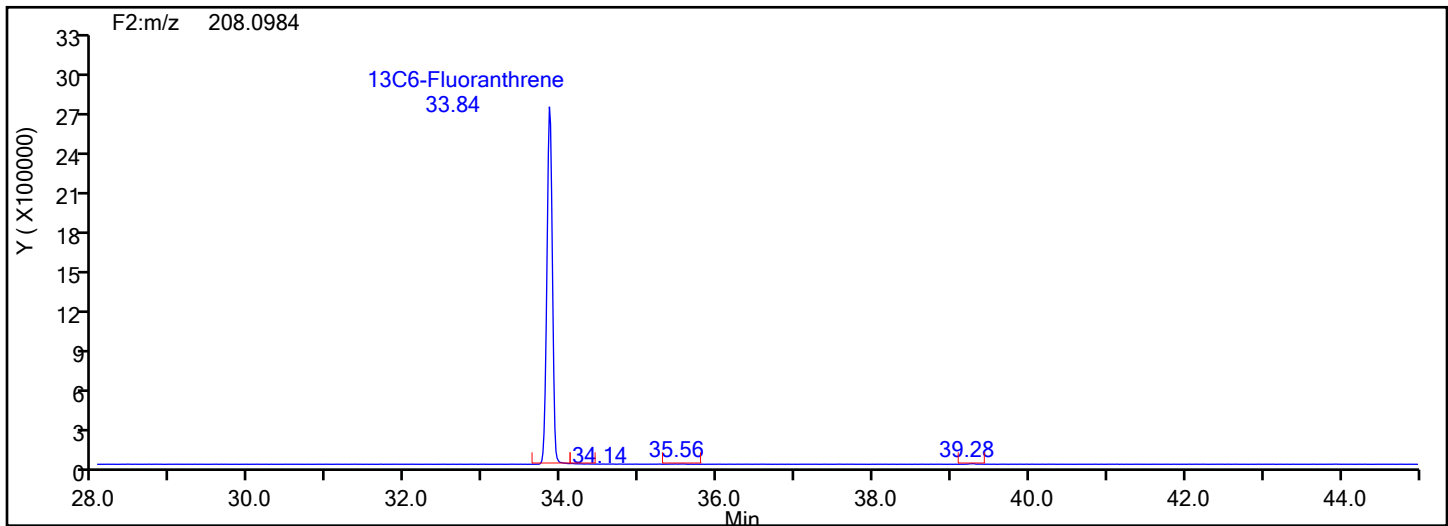


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



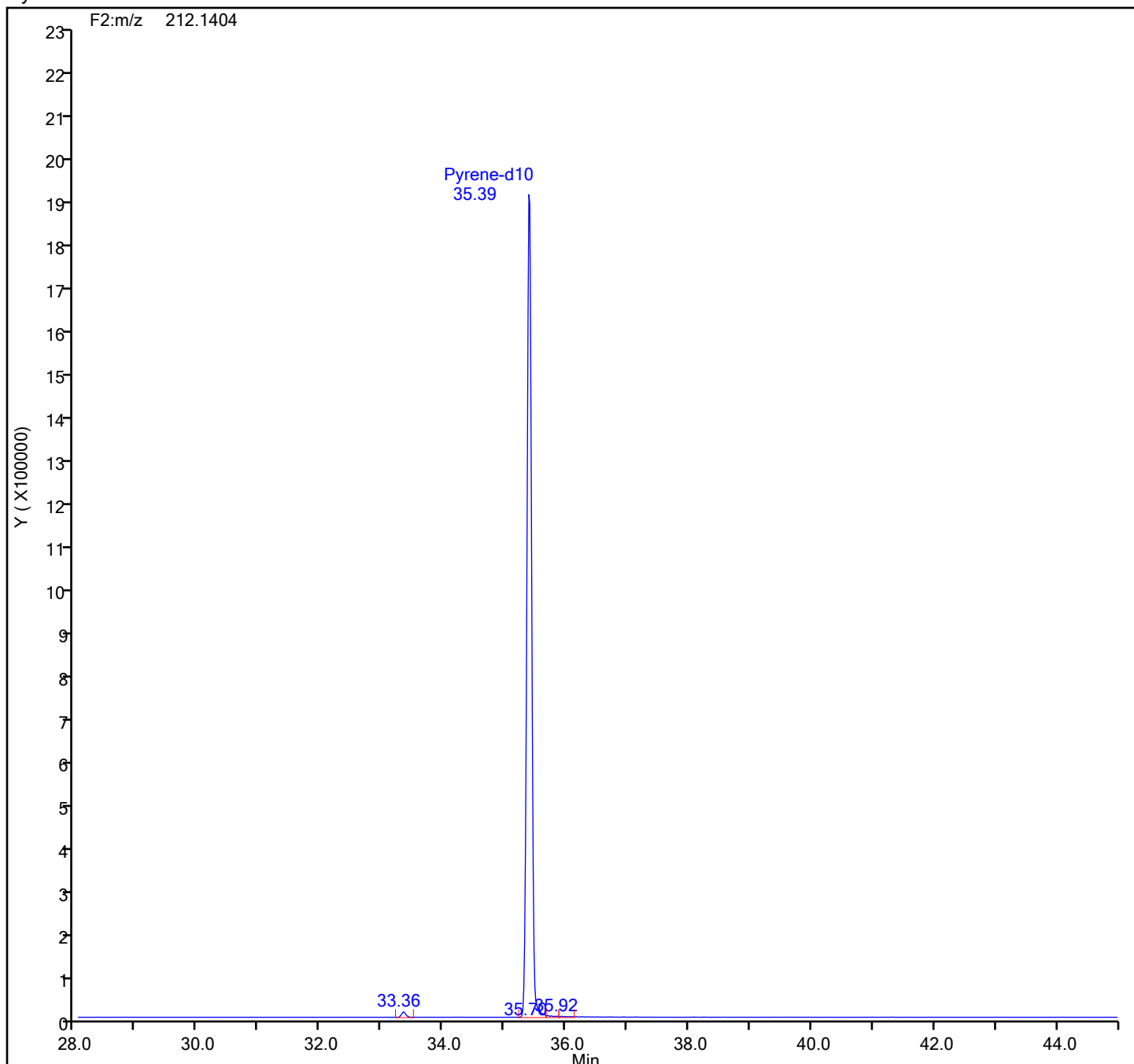
Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

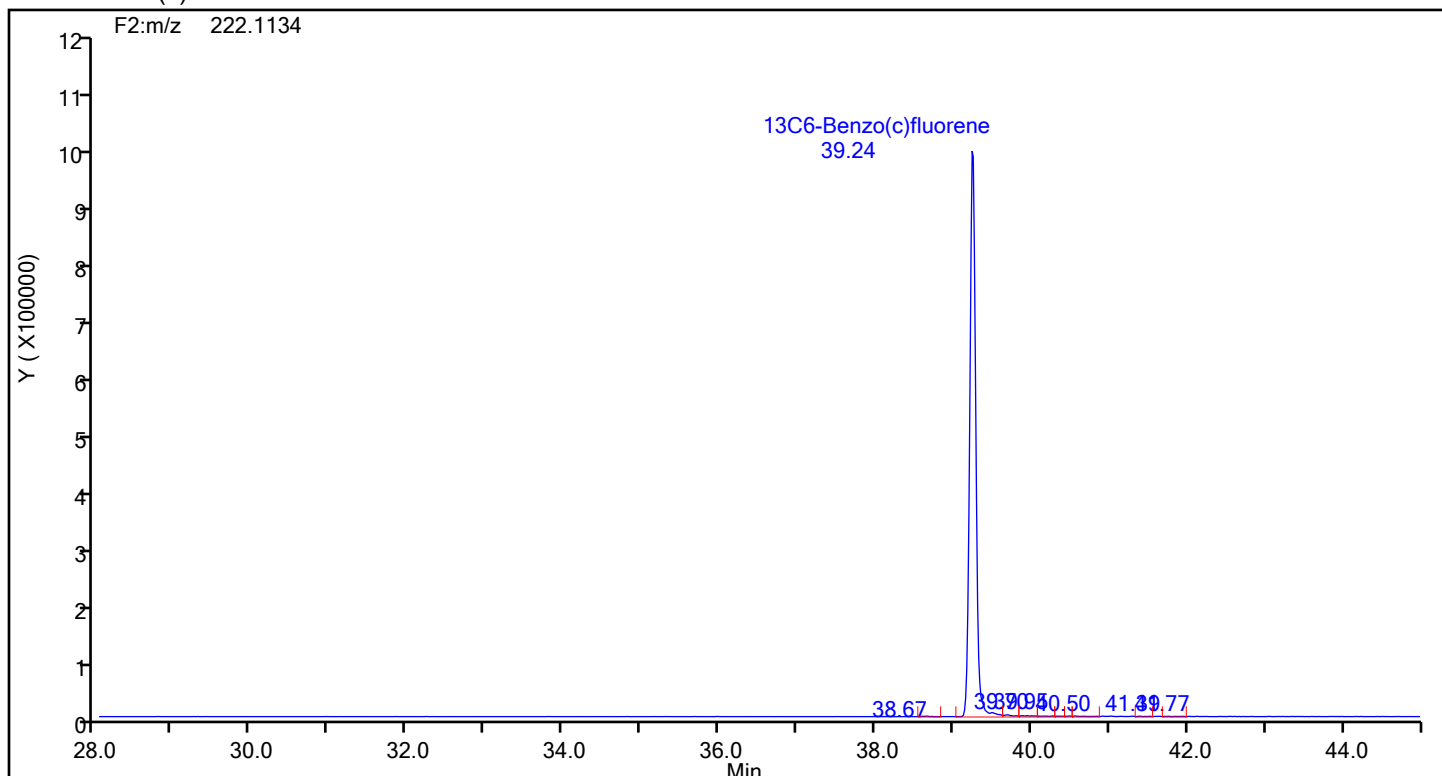
Pyrene-d10 Standards



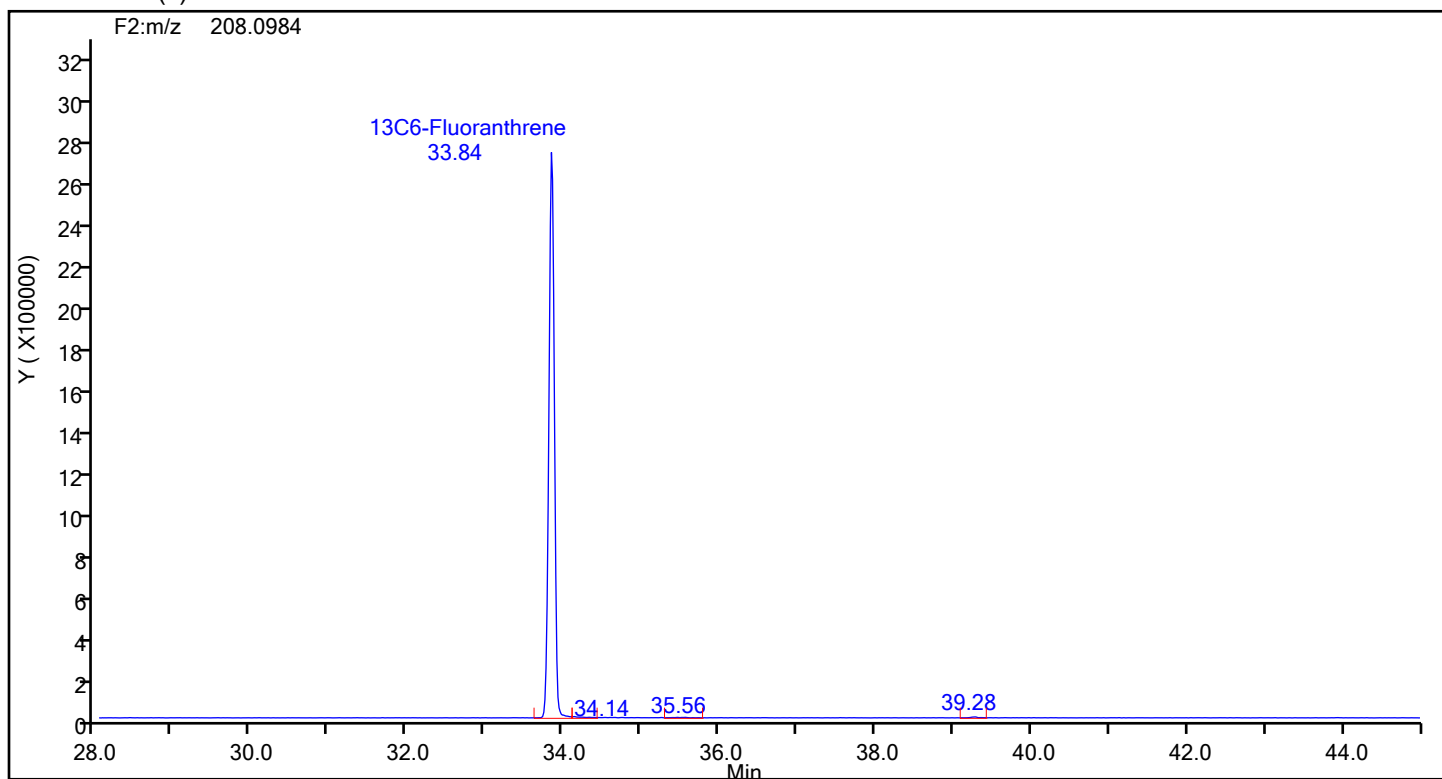
Eurofins Knoxville

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Injection Date: 20-Jun-2024 01:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



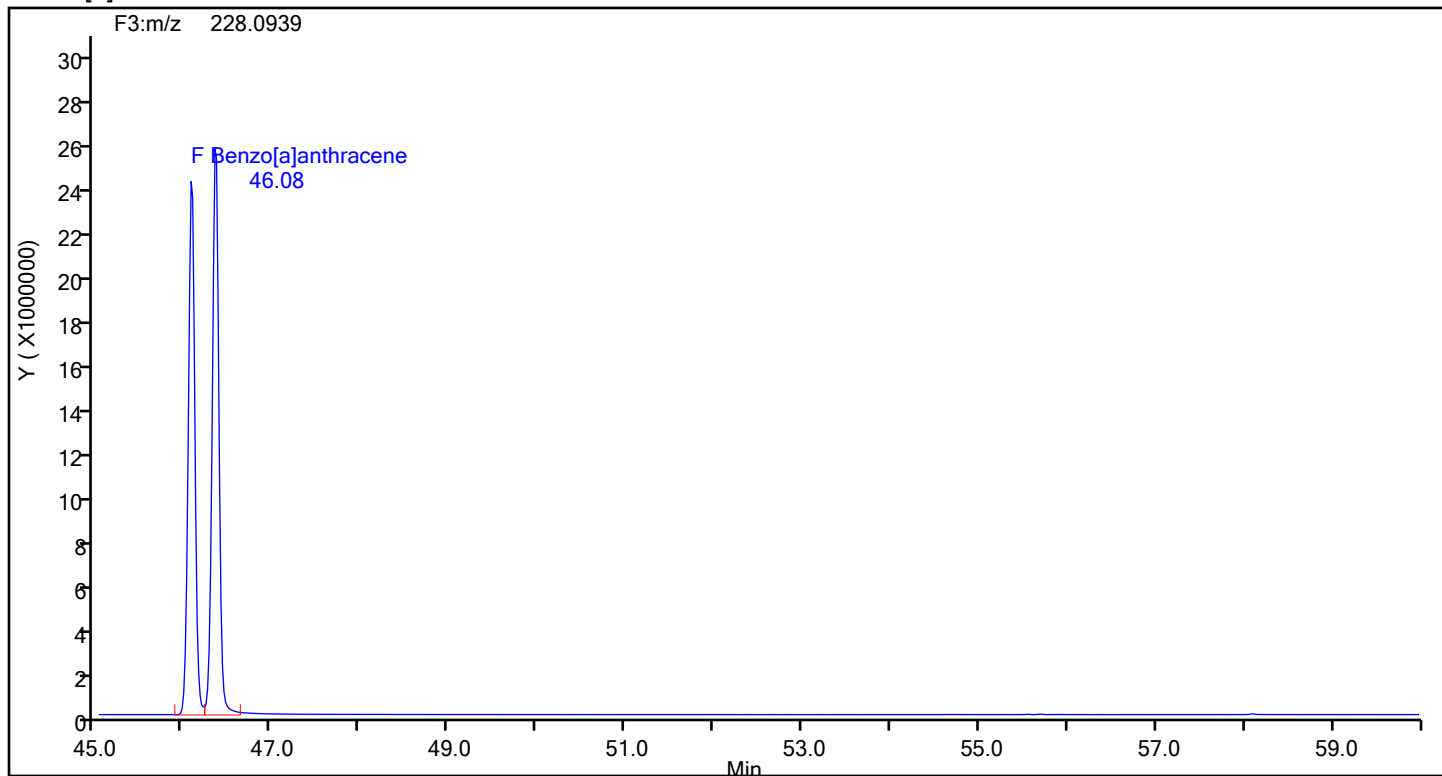
13C6-Benzo(c)fluorene Standards



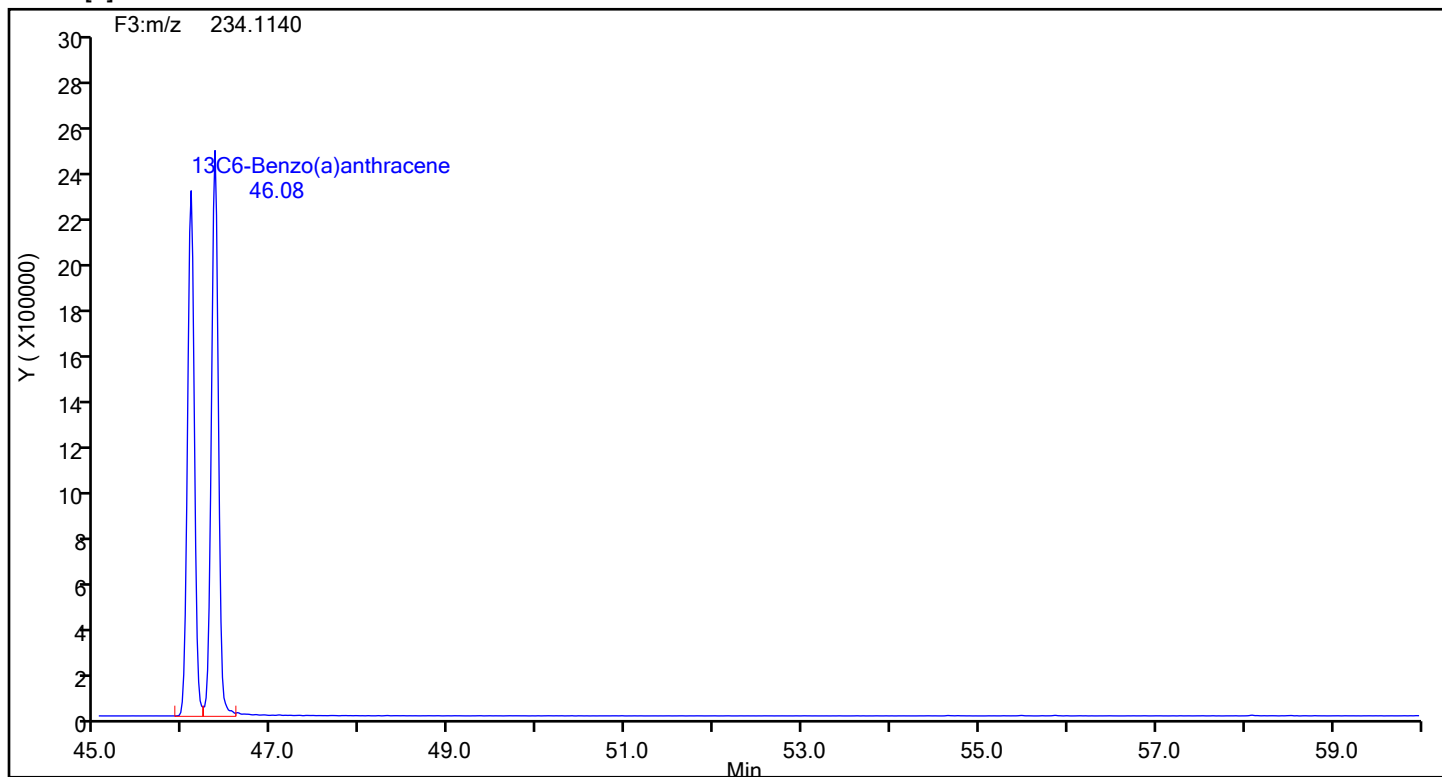
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



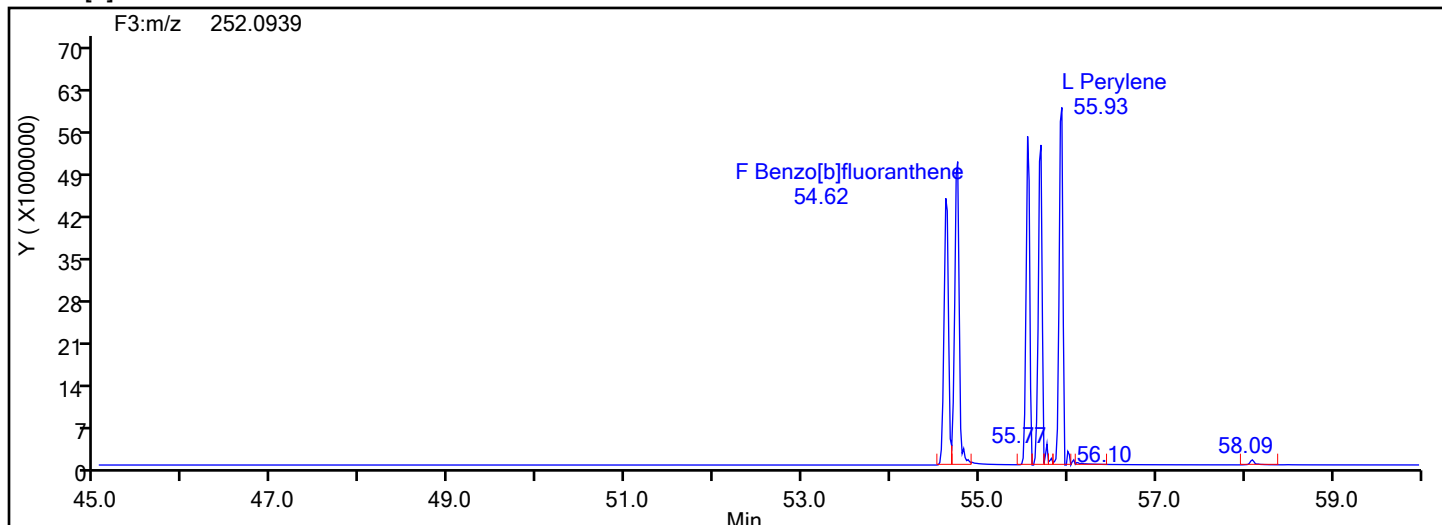
Benzo[a]anthracene Standards



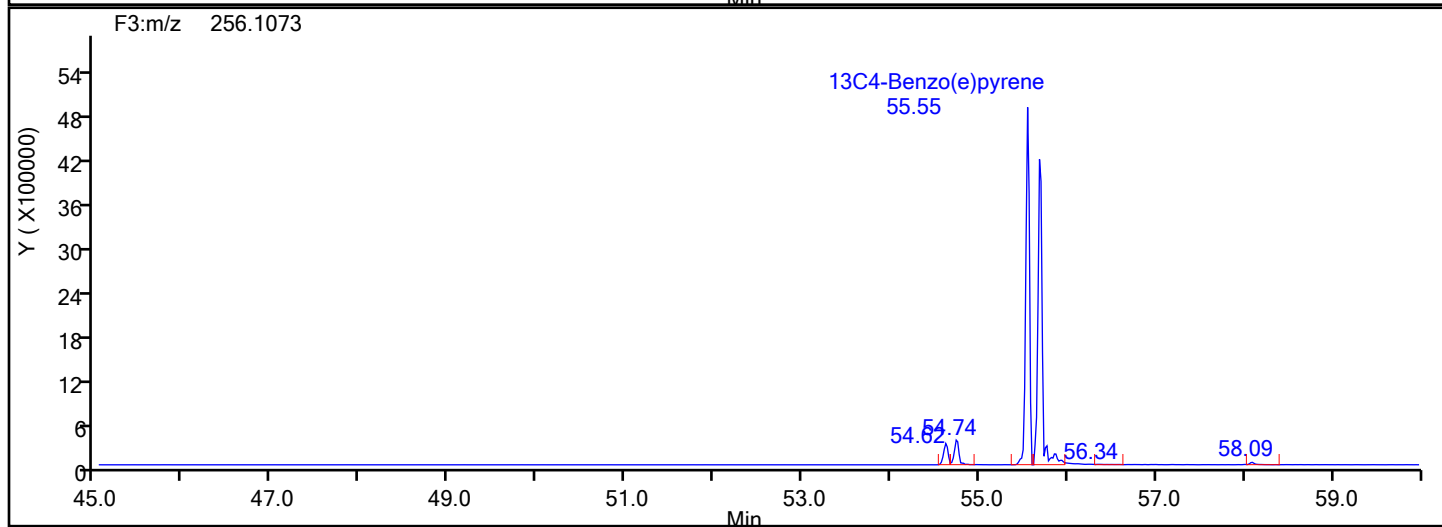
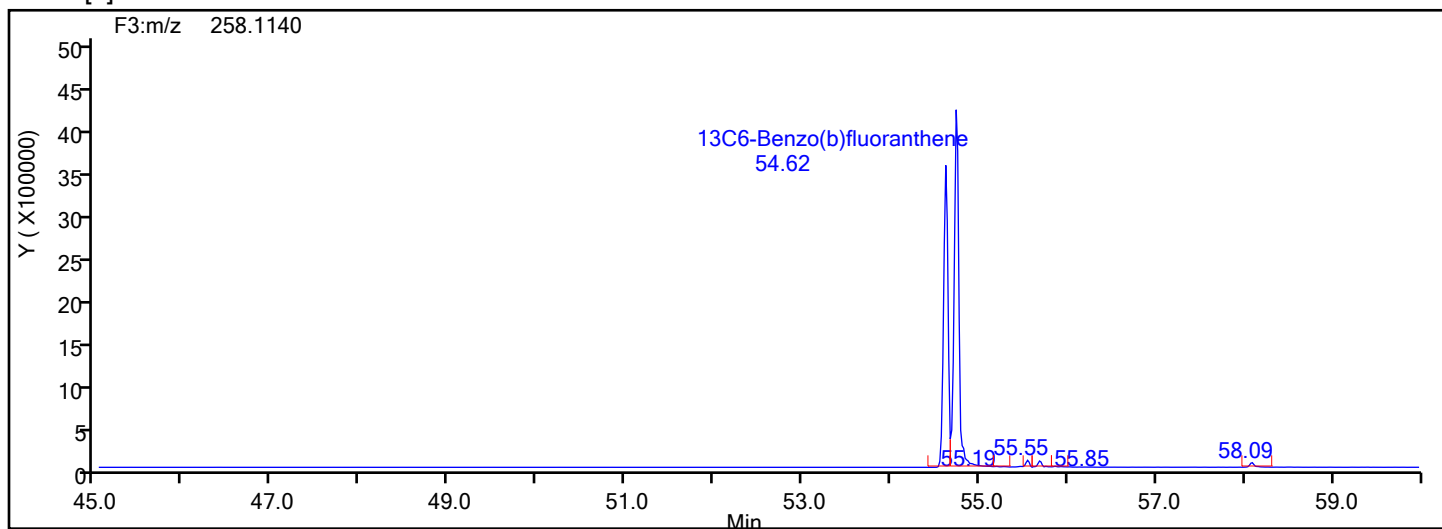
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



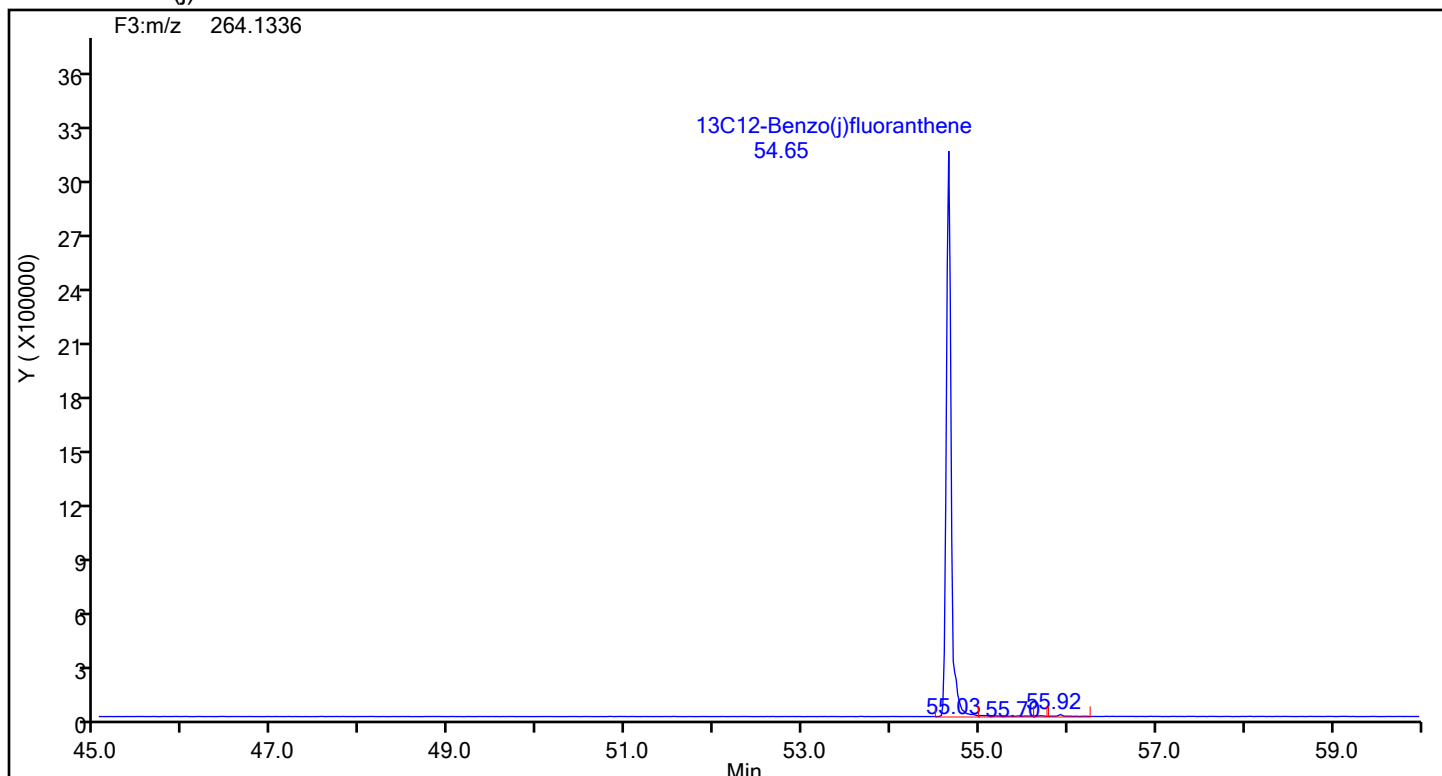
Benzo[b]fluoranthene Standards



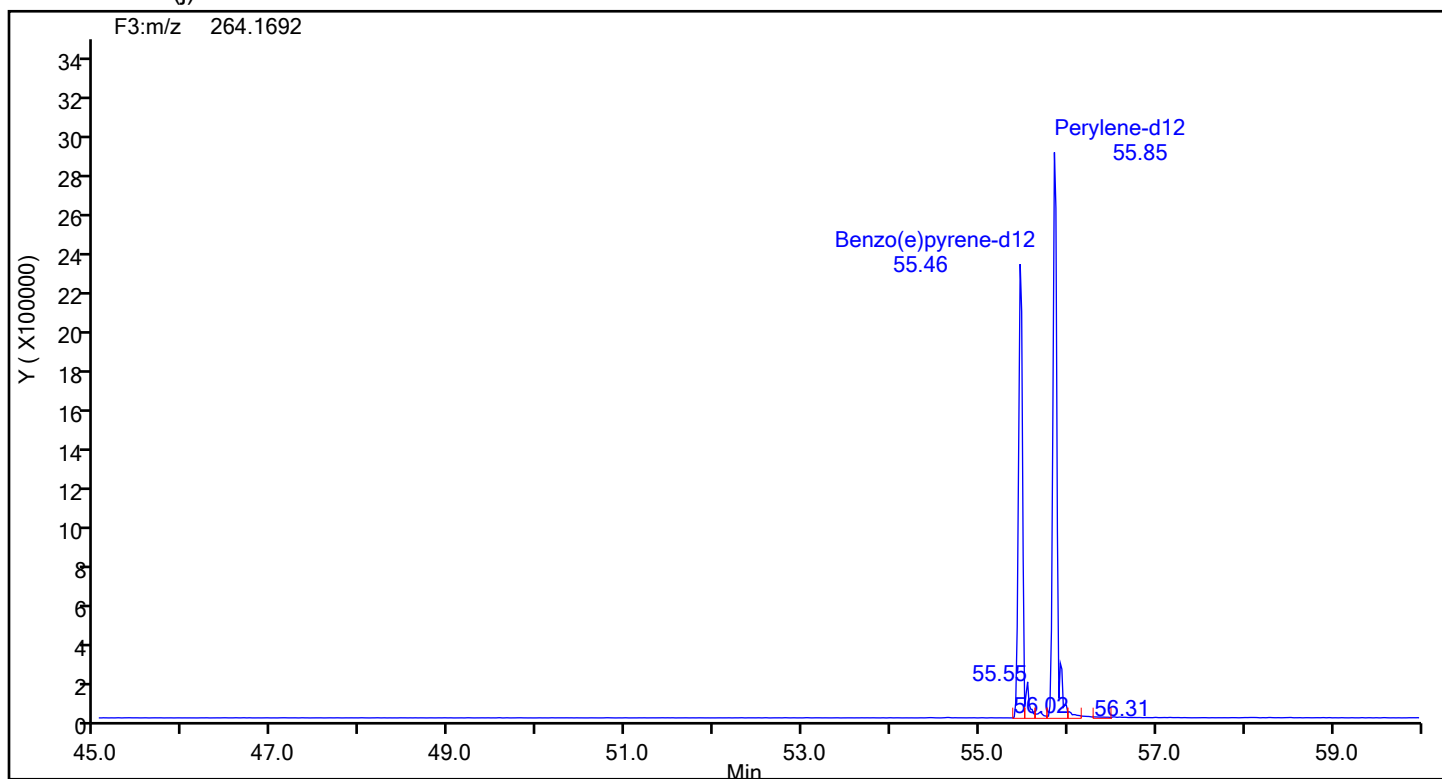
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



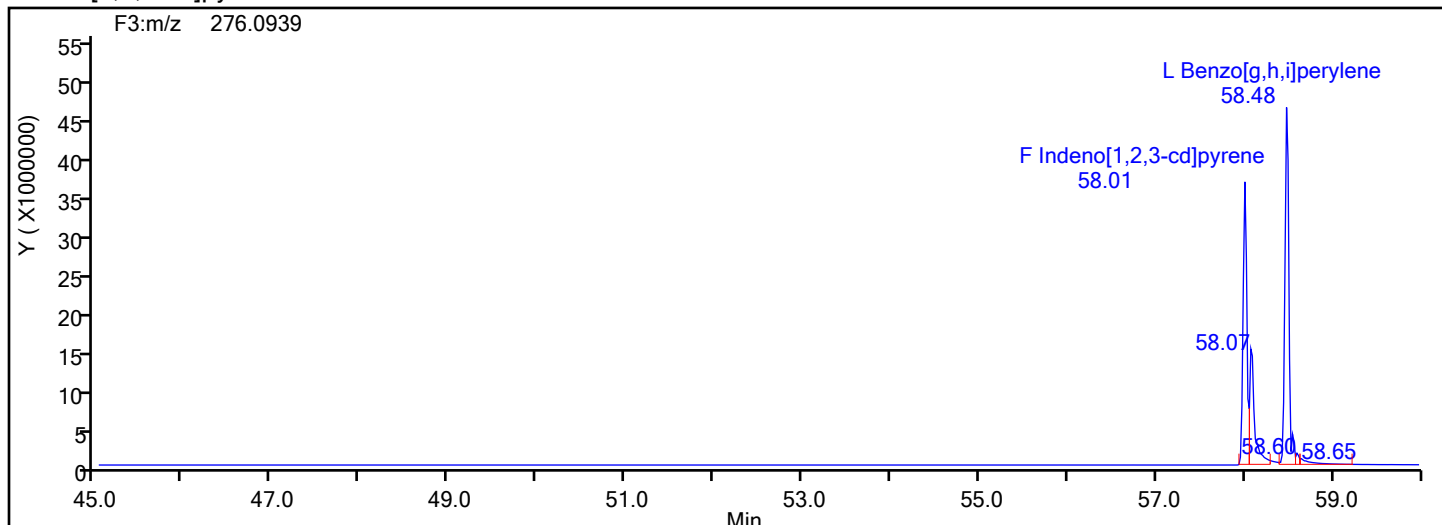
13C12-Benzo(j)fluoranthene Standards



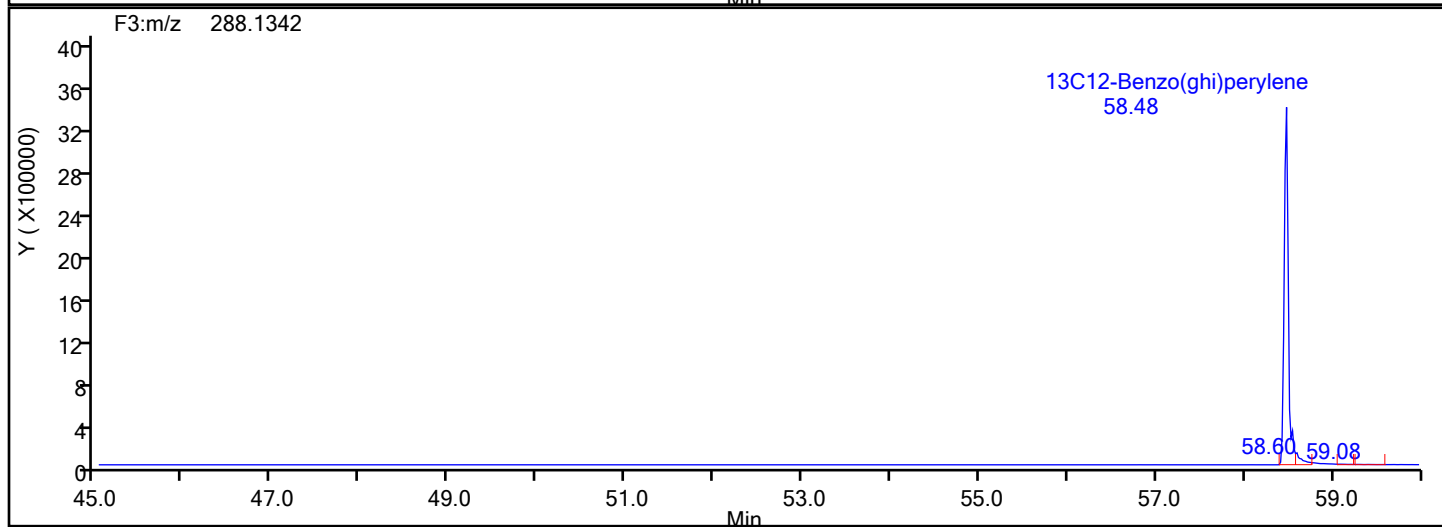
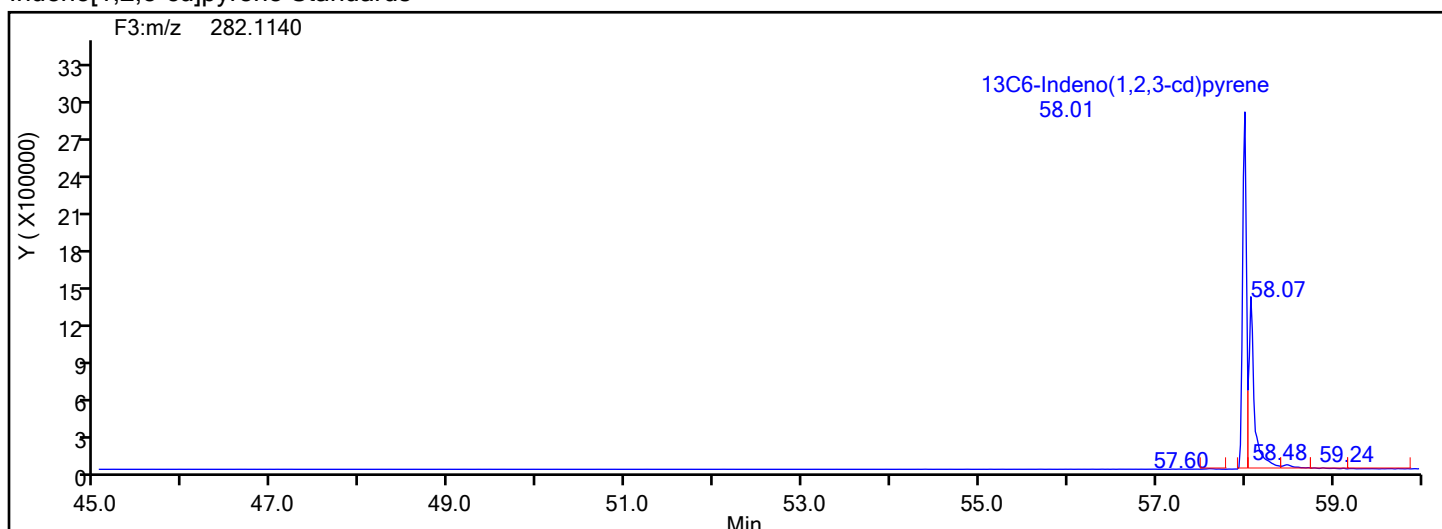
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d

Injection Date: 20-Jun-2024 01:09:00

Instrument ID: D3PAH

Lims ID: IC L9

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Column: Restek-5Sil MS 25um (0.25 mm)

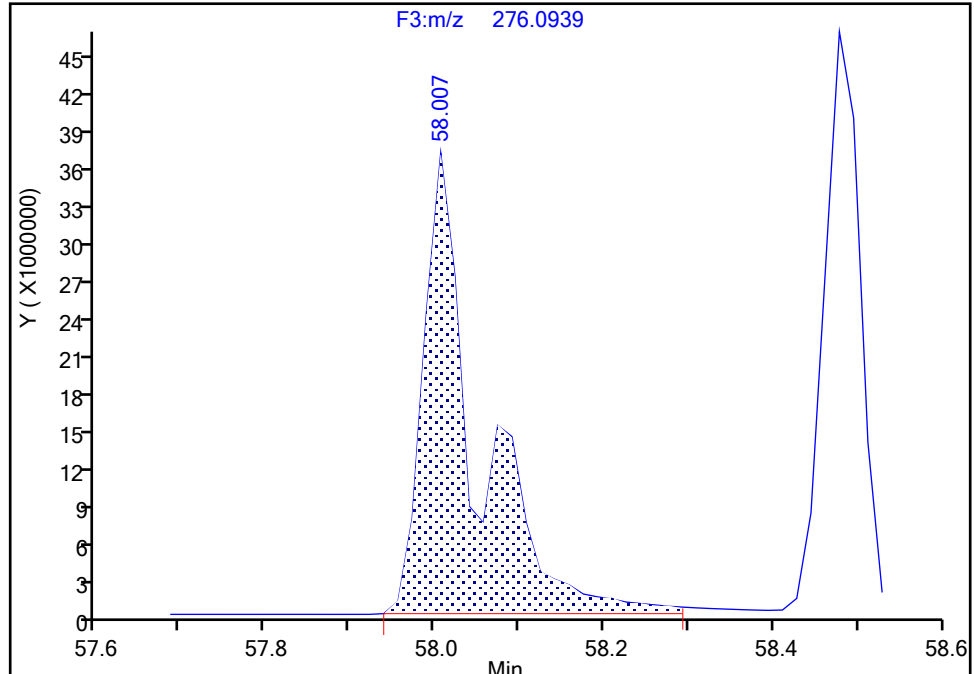
Detector F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

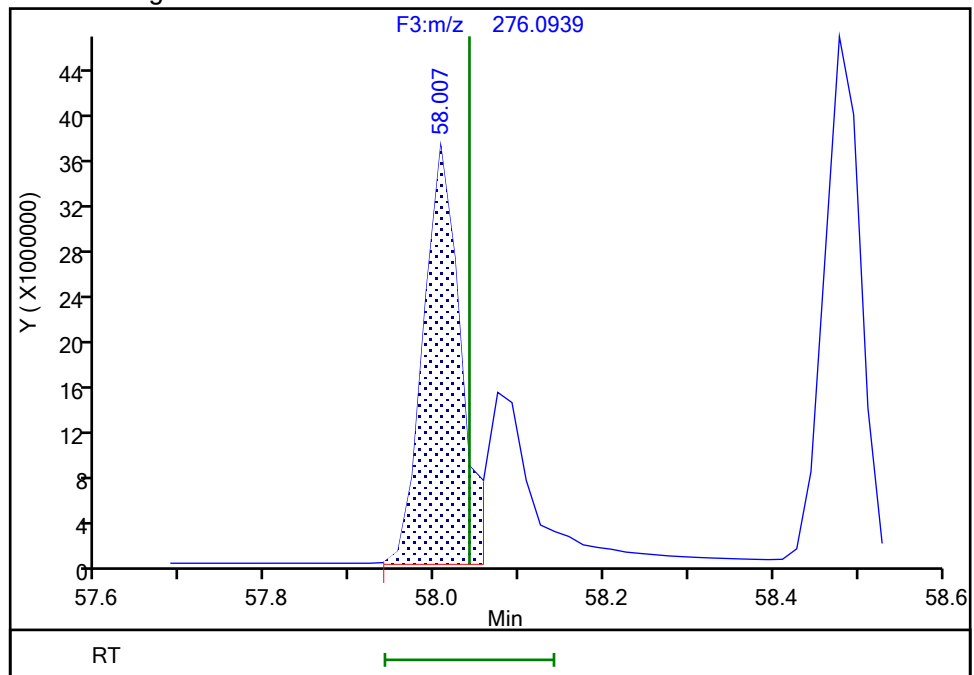
RT: 58.01
Area: 166292178
Amount: 1593.7458
Amount Units: pg/ul

Processing Integration Results



RT: 58.01
Area: 113067905
Amount: 1170.6590
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:19 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

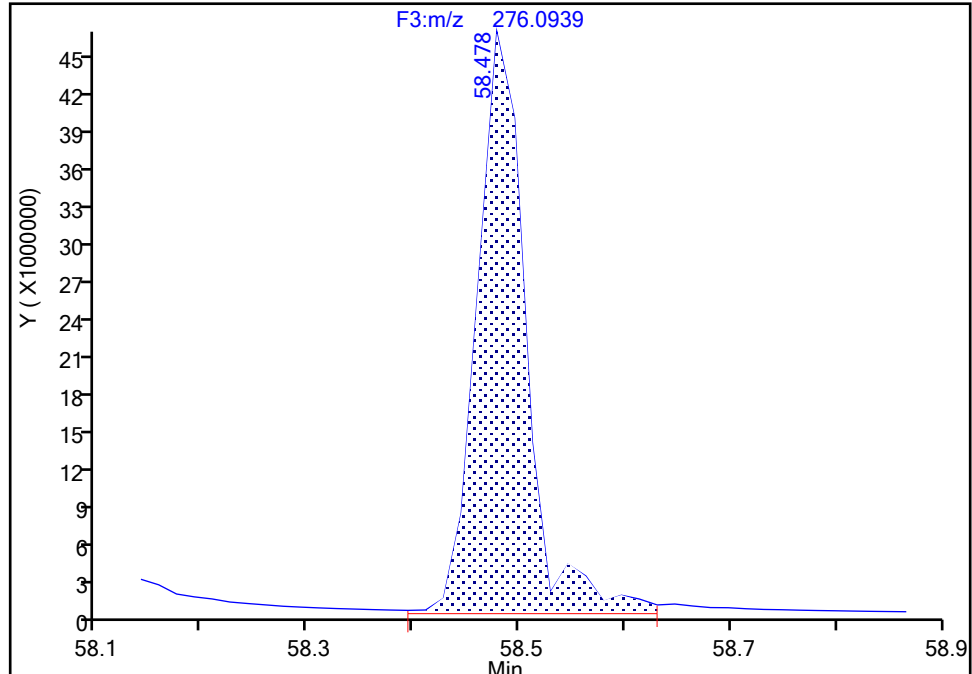
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Injection Date: 20-Jun-2024 01:09:00 Instrument ID: D3PAH
Lims ID: IC L9
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

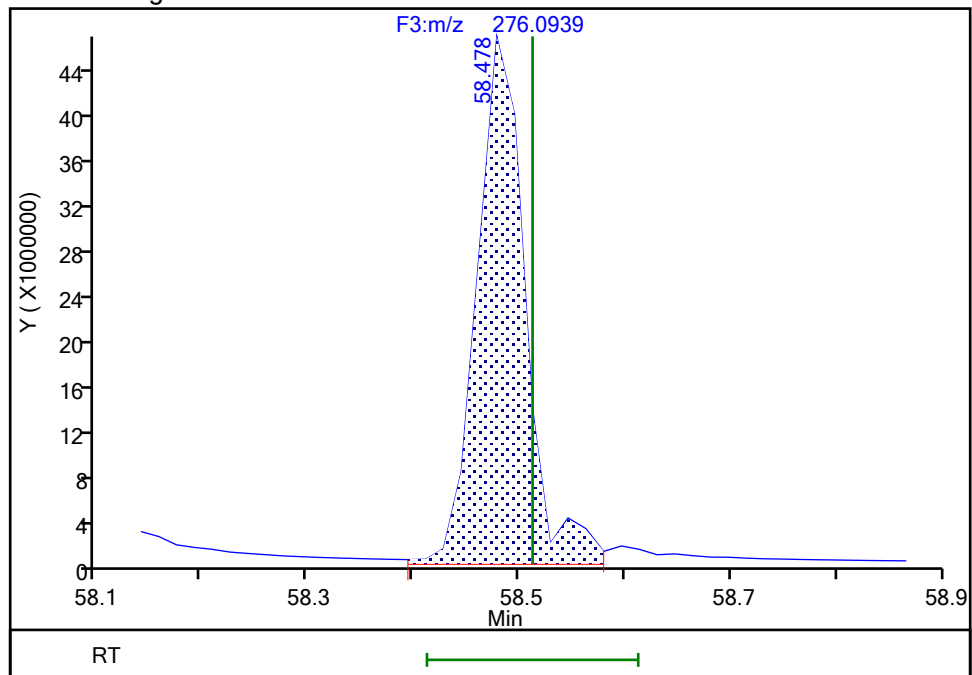
RT: 58.48
Area: 150426172
Amount: 1058.6613
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 147488032
Amount: 1040.3738
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:48 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

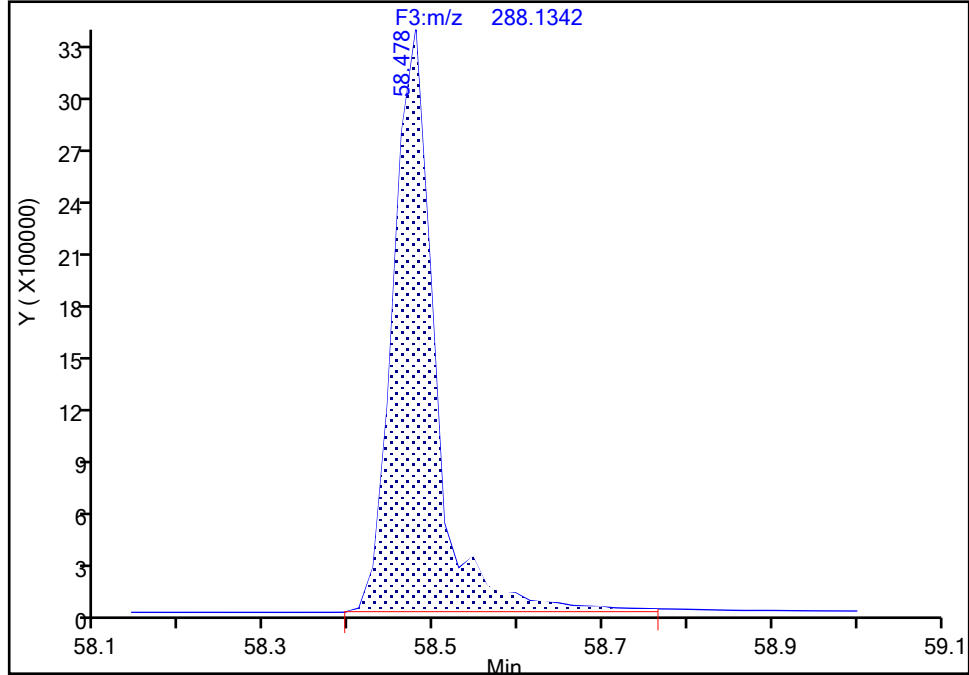
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Instrument ID: D3PAH
Lims ID: IC L9
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

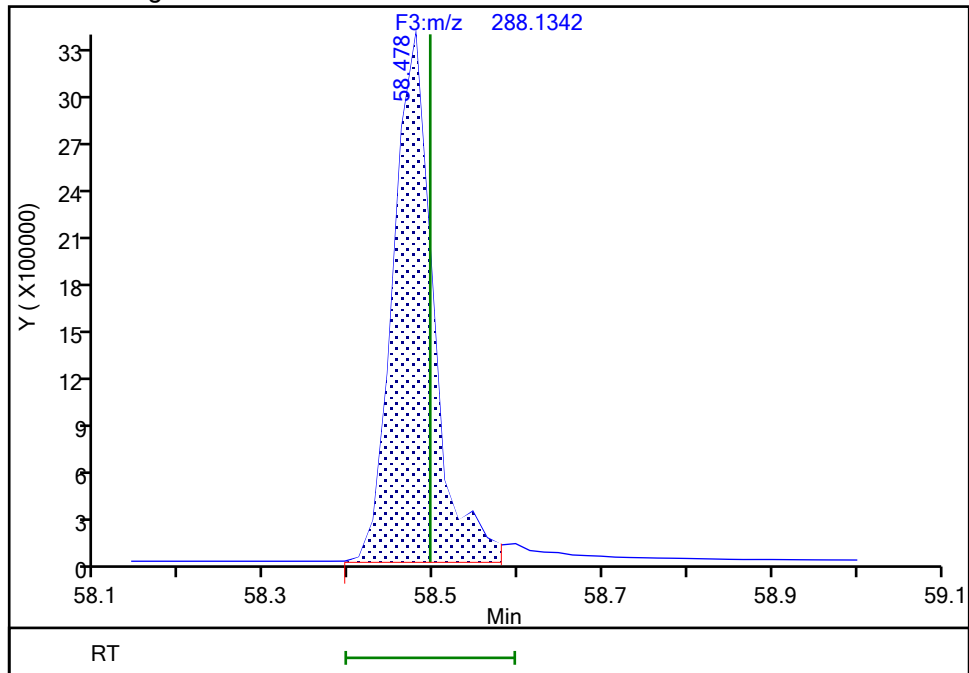
RT: 58.48
Area: 11522655
Amount: 124.6011
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 11042946
Amount: 120.1060
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:41 -04:00:00 (UTC)

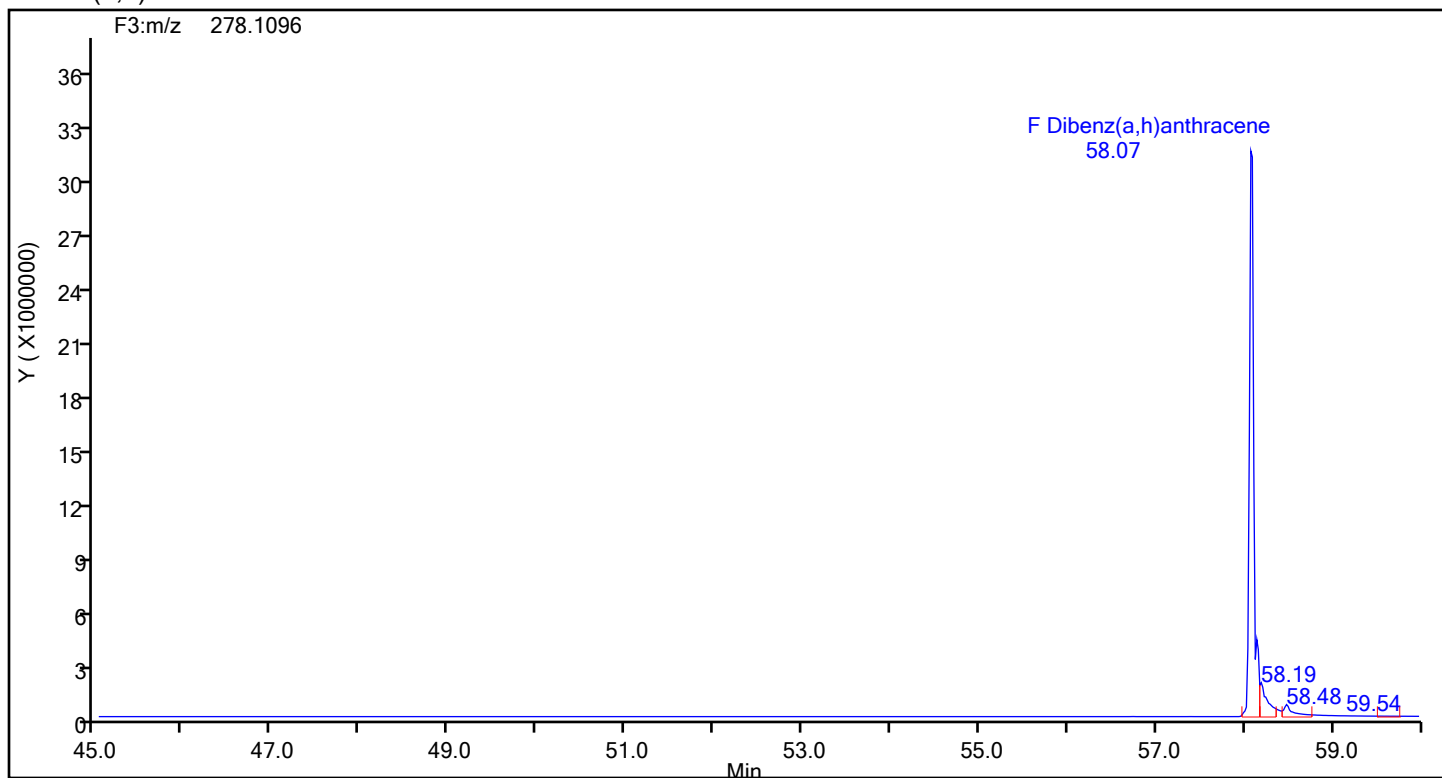
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

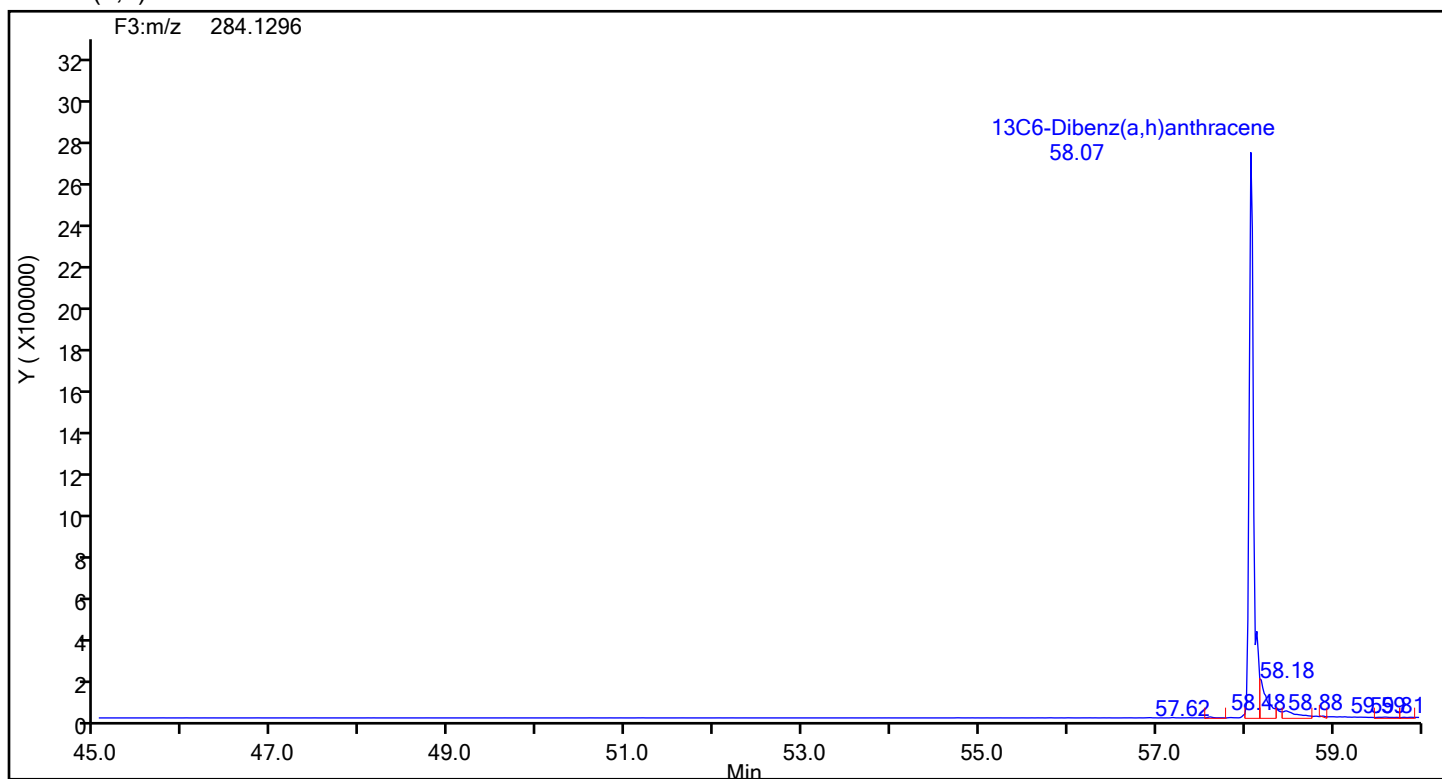
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

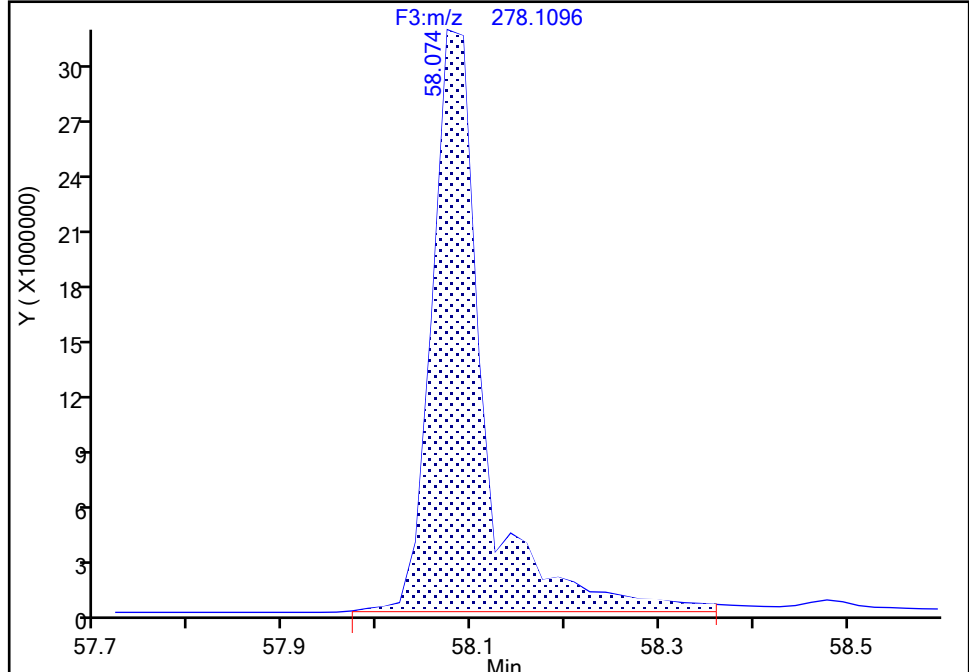
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Injection Date: 20-Jun-2024 01:09:00 Instrument ID: D3PAH
Lims ID: IC L9
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

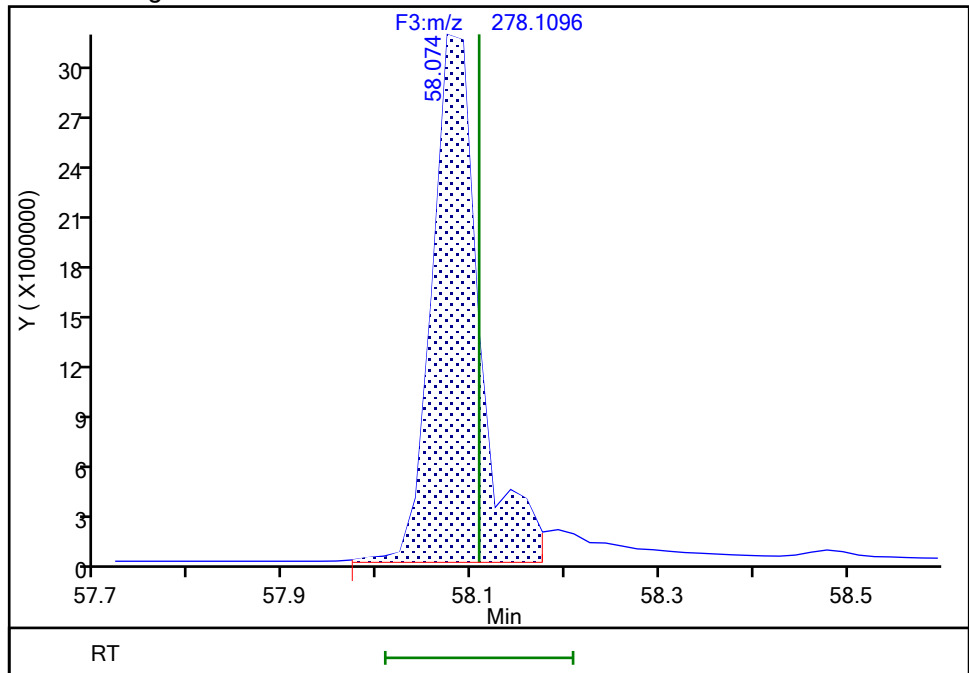
RT: 58.07
Area: 120391306
Amount: 1116.2911
Amount Units: pg/ul

Processing Integration Results



RT: 58.07
Area: 110582572
Amount: 1035.8099
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:35 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

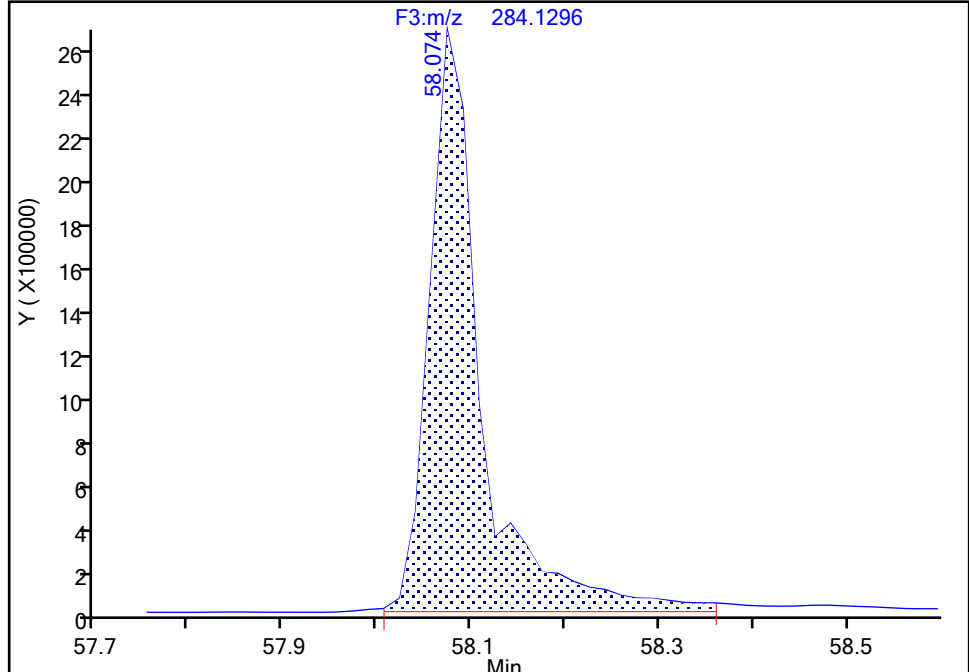
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Injection Date: 20-Jun-2024 01:09:00 Instrument ID: D3PAH
Lims ID: IC L9
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

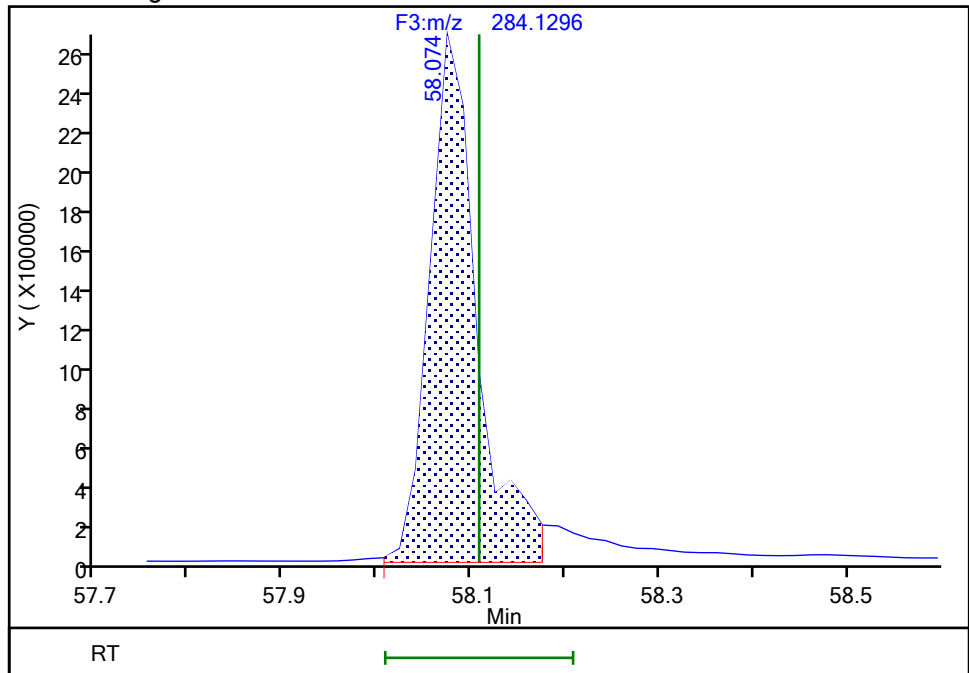
RT: 58.07
Area: 10350790
Amount: 134.2139
Amount Units: pg/ul

Processing Integration Results



RT: 58.07
Area: 9436274
Amount: 123.9894
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Calibration

/ 13C12-Benzo(j)fluoranthene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

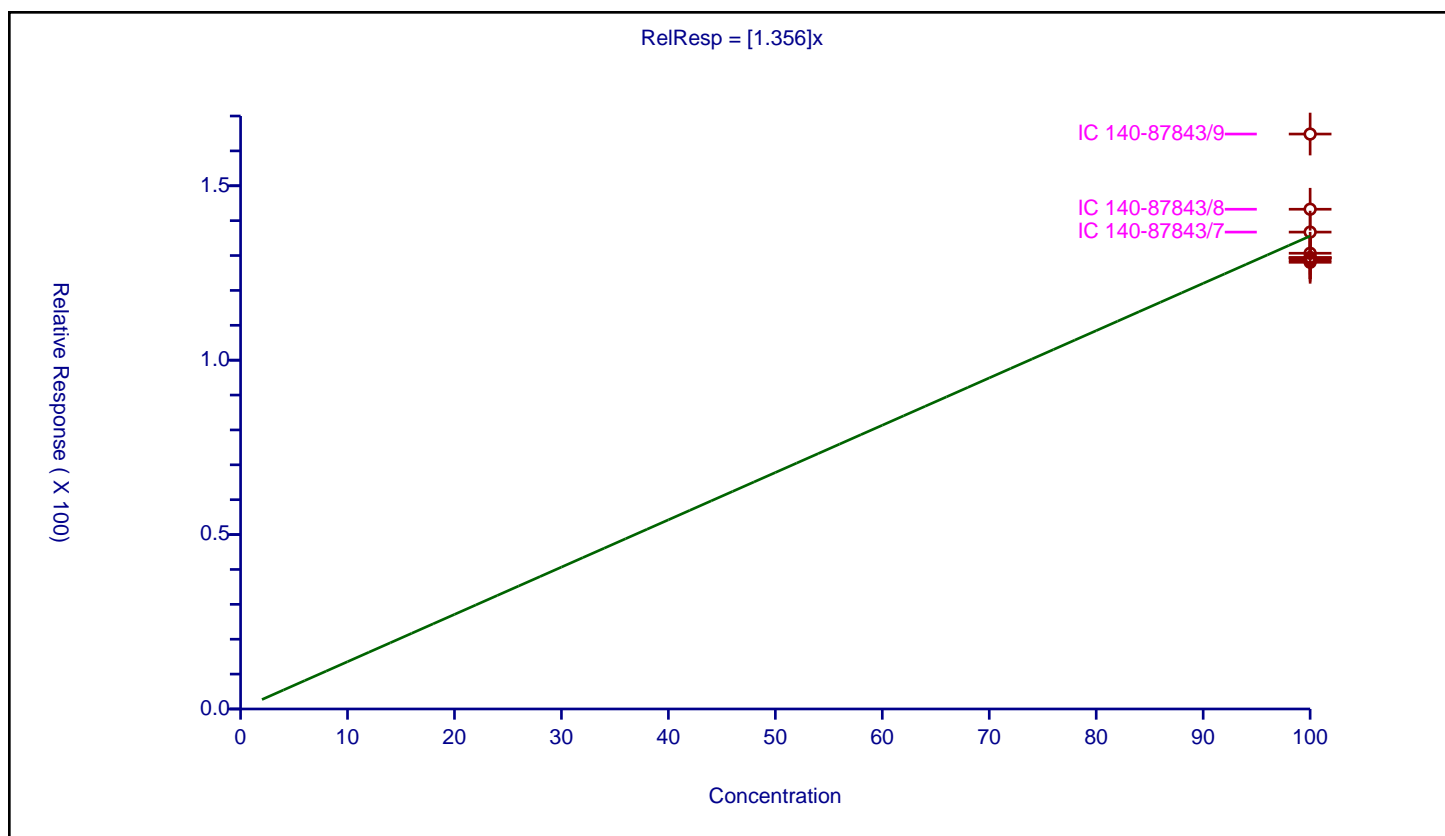
Curve Coefficients

Intercept: 0
 Slope: 1.356

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	100.0	129.337505	100.0	5060836.0	1.293375	Y
2	IC 140-87843/2	100.0	130.654858	100.0	5028172.0	1.306549	Y
3	IC 140-87843/3	100.0	128.630874	100.0	4927202.0	1.286309	Y
4	IC 140-87843/4	100.0	129.38599	100.0	5011388.0	1.29386	Y
5	IC 140-87843/5	100.0	129.357445	100.0	5318283.0	1.293574	Y
6	IC 140-87843/6	100.0	128.0567	100.0	5810473.0	1.280567	Y
7	IC 140-87843/7	100.0	136.719725	100.0	5799368.0	1.367197	Y
8	IC 140-87843/8	100.0	143.275573	100.0	6903874.0	1.432756	Y
9	IC 140-87843/9	100.0	164.834585	100.0	7211924.0	1.648346	Y



Calibration

/ 13C6-Benzo(c)fluorene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

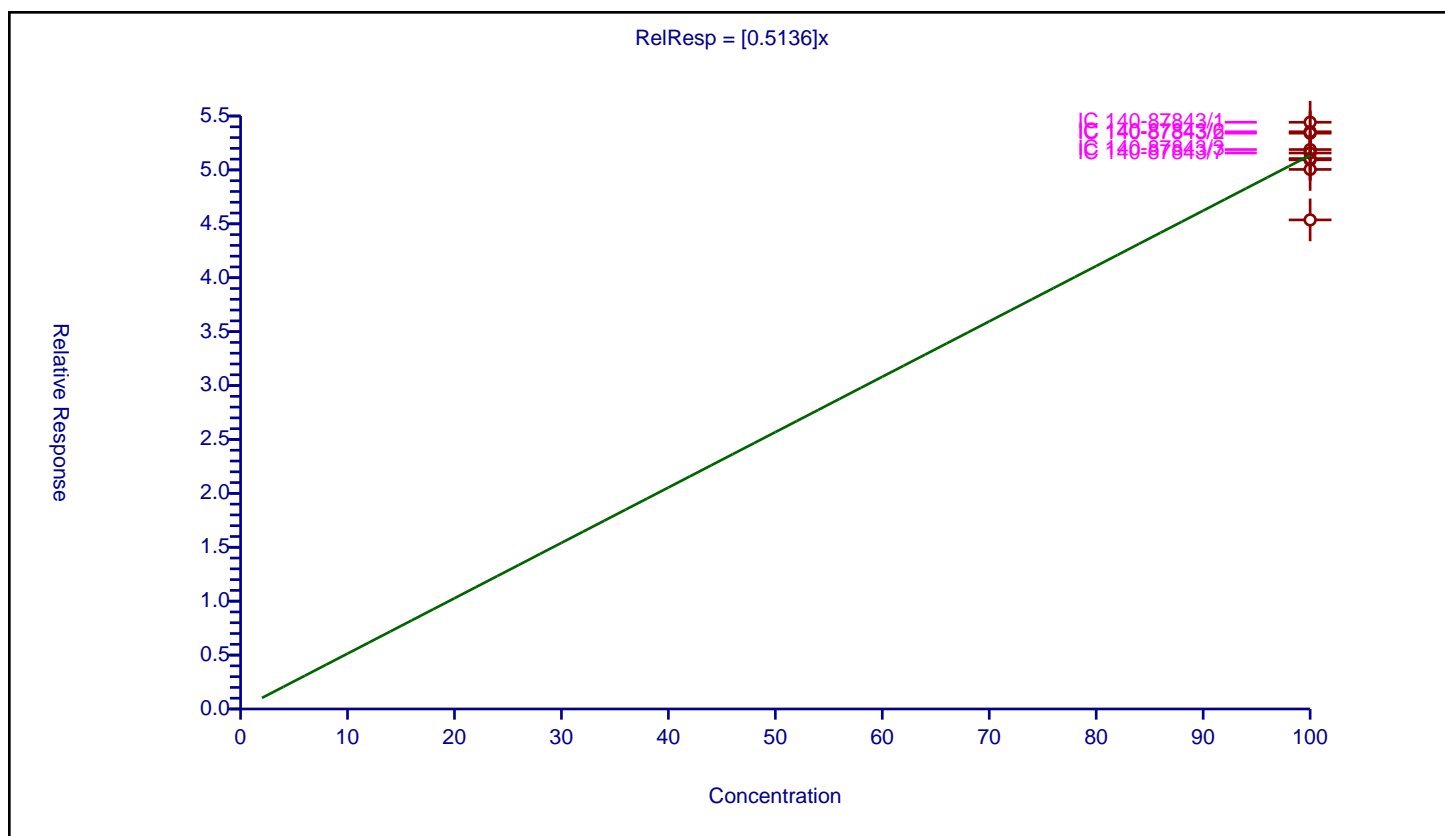
Curve Coefficients

Intercept: 0
Slope: 0.5136

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	100.0	54.421406	100.0	6636938.0	0.544214	Y
2	IC 140-87843/2	100.0	53.406957	100.0	7097800.0	0.53407	Y
3	IC 140-87843/3	100.0	51.89137	100.0	7063080.0	0.518914	Y
4	IC 140-87843/4	100.0	45.364592	100.0	7837595.0	0.453646	Y
5	IC 140-87843/5	100.0	50.937027	100.0	6994144.0	0.50937	Y
6	IC 140-87843/6	100.0	53.540254	100.0	7731706.0	0.535403	Y
7	IC 140-87843/7	100.0	51.569874	100.0	8045261.0	0.515699	Y
8	IC 140-87843/8	100.0	51.054167	100.0	9327125.0	0.510542	Y
9	IC 140-87843/9	100.0	50.044562	100.0	9953605.0	0.500446	Y



Calibration

/ 2-Methylnaphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

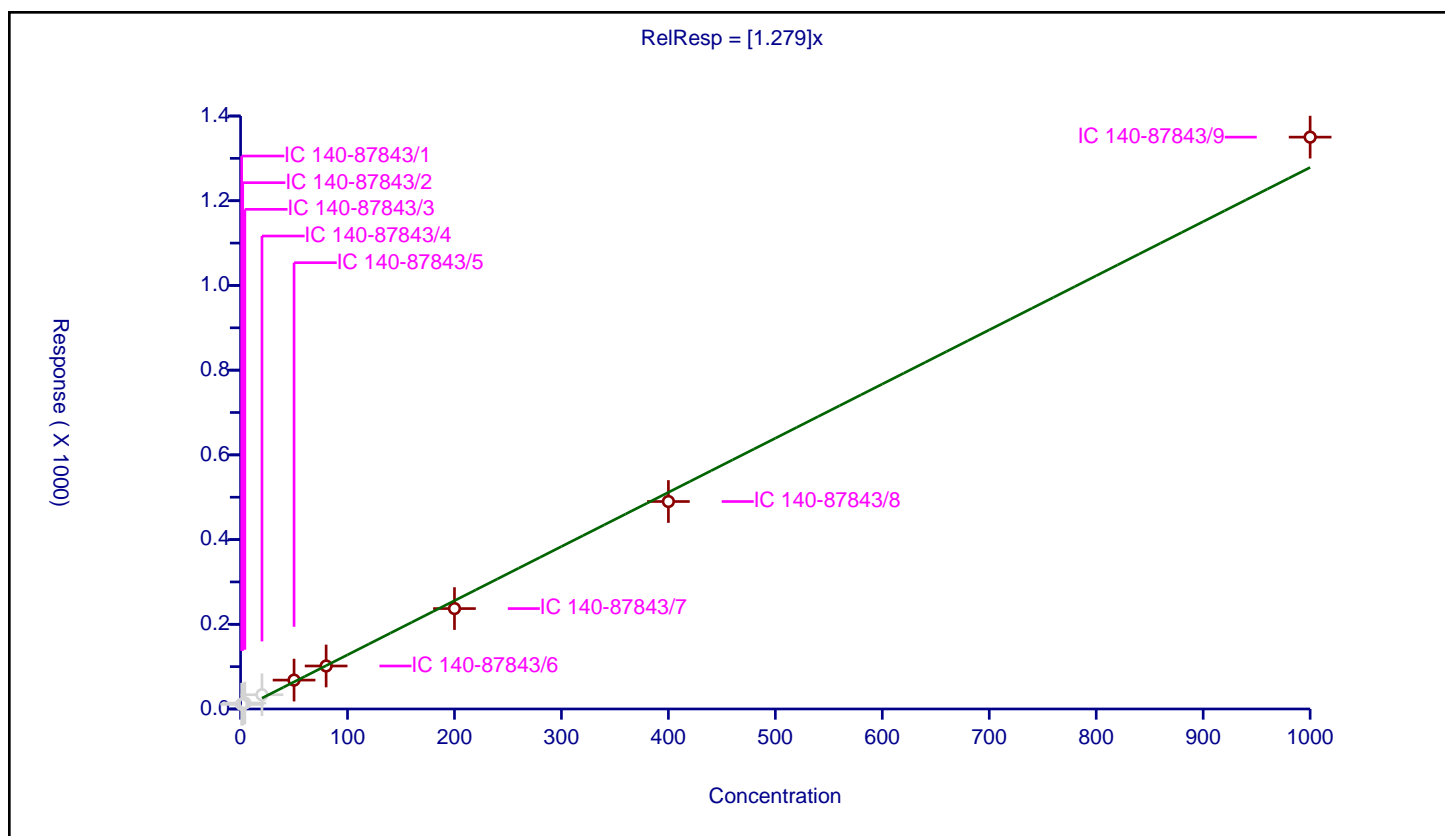
Curve Coefficients

Intercept: 0
Slope: 1.279

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	11.173881	100.0	4590652.0	11.173881	N
2	IC 140-87843/2	2.0	11.594961	100.0	4888063.0	5.797481	N
3	IC 140-87843/3	4.0	14.06532	100.0	4691404.0	3.51633	N
4	IC 140-87843/4	20.0	33.656277	100.0	5490022.0	1.682814	N
5	IC 140-87843/5	50.0	68.187804	100.0	4932932.0	1.363756	Y
6	IC 140-87843/6	80.0	101.505826	100.0	5726757.0	1.268823	Y
7	IC 140-87843/7	200.0	237.103291	100.0	5800321.0	1.185516	Y
8	IC 140-87843/8	400.0	489.830109	100.0	6439882.0	1.224575	Y
9	IC 140-87843/9	1000.0	1350.161797	100.0	7285064.0	1.350162	Y



Calibration

/ Acenaphthene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

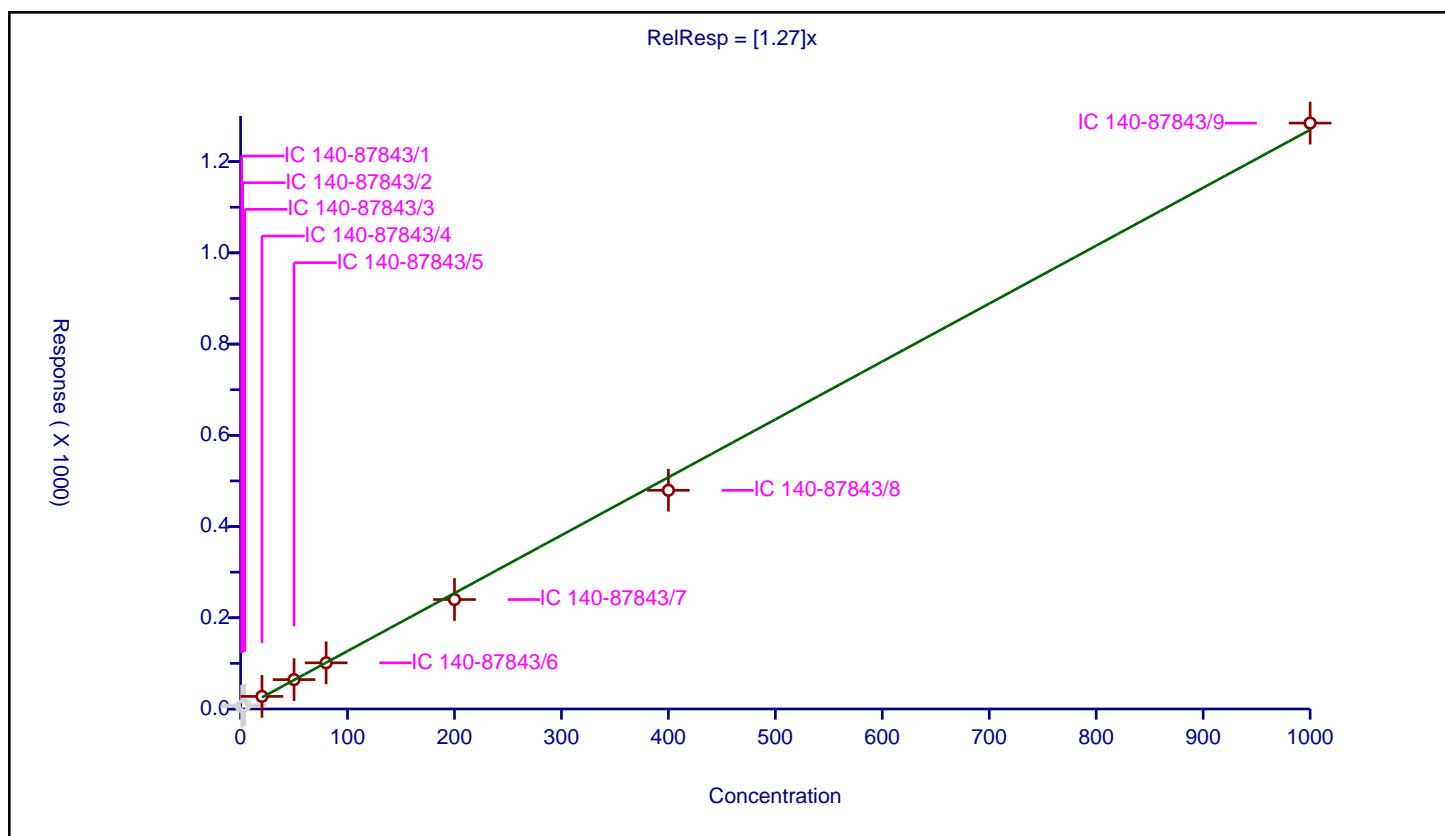
Curve Coefficients

Intercept: 0
Slope: 1.27

Error Coefficients

Relative Standard Deviation: 5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	5.644006	100.0	2649873.0	5.644006	N
2	IC 140-87843/2	2.0	6.845692	100.0	2794458.0	3.422846	N
3	IC 140-87843/3	4.0	8.670511	100.0	2973262.0	2.167628	N
4	IC 140-87843/4	20.0	27.64107	100.0	3399456.0	1.382053	Y
5	IC 140-87843/5	50.0	64.384133	100.0	2929756.0	1.287683	Y
6	IC 140-87843/6	80.0	101.22165	100.0	3599722.0	1.265271	Y
7	IC 140-87843/7	200.0	239.960295	100.0	3536065.0	1.199801	Y
8	IC 140-87843/8	400.0	479.506035	100.0	4039150.0	1.198765	Y
9	IC 140-87843/9	1000.0	1284.48027	100.0	4662594.0	1.28448	Y



Calibration

/ Acenaphthylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

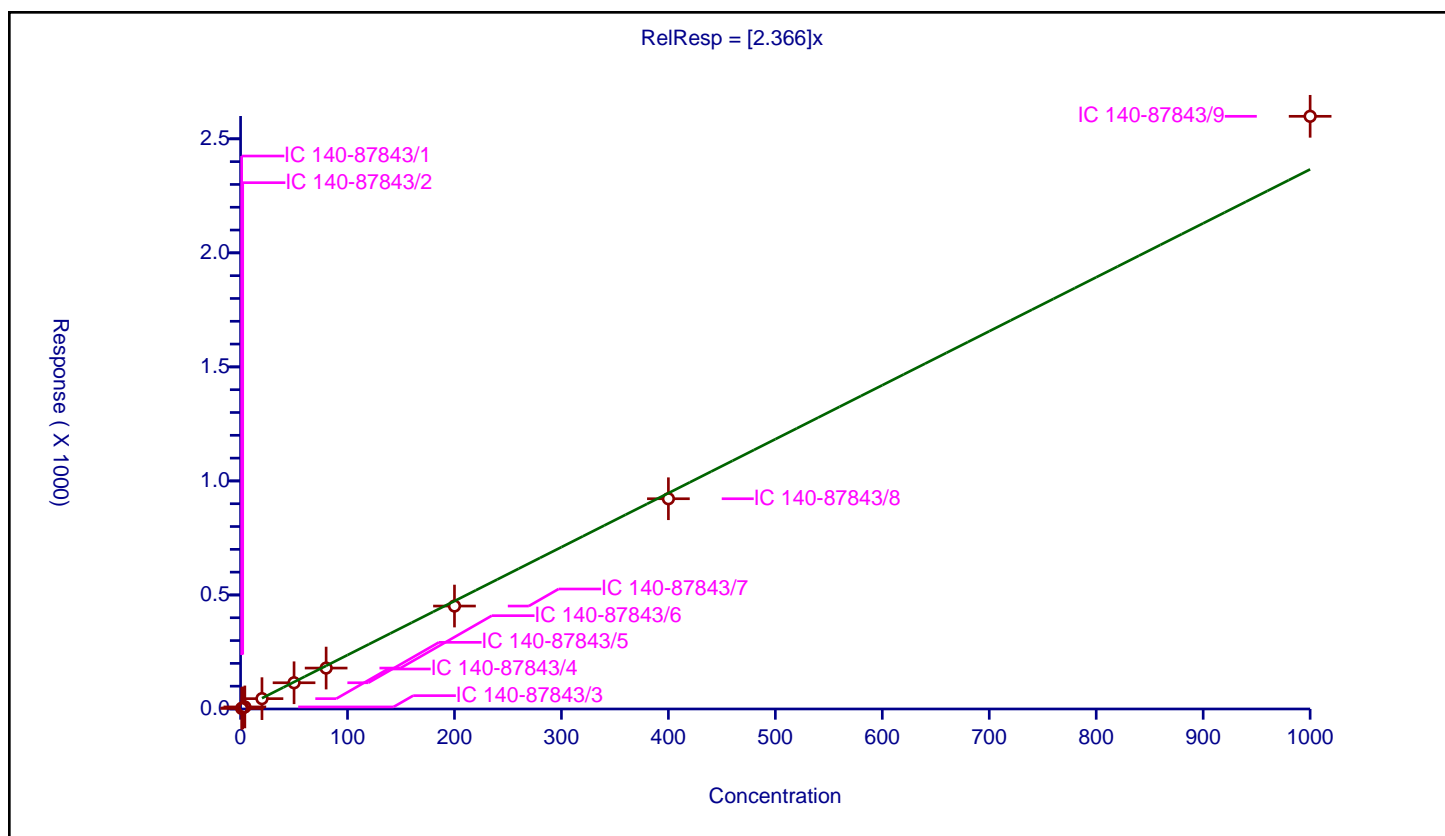
Curve Coefficients

Intercept: 0
Slope: 2.366

Error Coefficients

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	2.678393	100.0	2649873.0	2.678393	Y
2	IC 140-87843/2	2.0	4.765647	100.0	2794458.0	2.382823	Y
3	IC 140-87843/3	4.0	9.061125	100.0	2973262.0	2.265281	Y
4	IC 140-87843/4	20.0	45.331694	100.0	3399456.0	2.266585	Y
5	IC 140-87843/5	50.0	114.95104	100.0	2929756.0	2.299021	Y
6	IC 140-87843/6	80.0	179.433745	100.0	3599722.0	2.242922	Y
7	IC 140-87843/7	200.0	451.373801	100.0	3536065.0	2.256869	Y
8	IC 140-87843/8	400.0	921.847022	100.0	4039150.0	2.304618	Y
9	IC 140-87843/9	1000.0	2598.69519	100.0	4662594.0	2.598695	Y



Calibration

/ Anthracene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

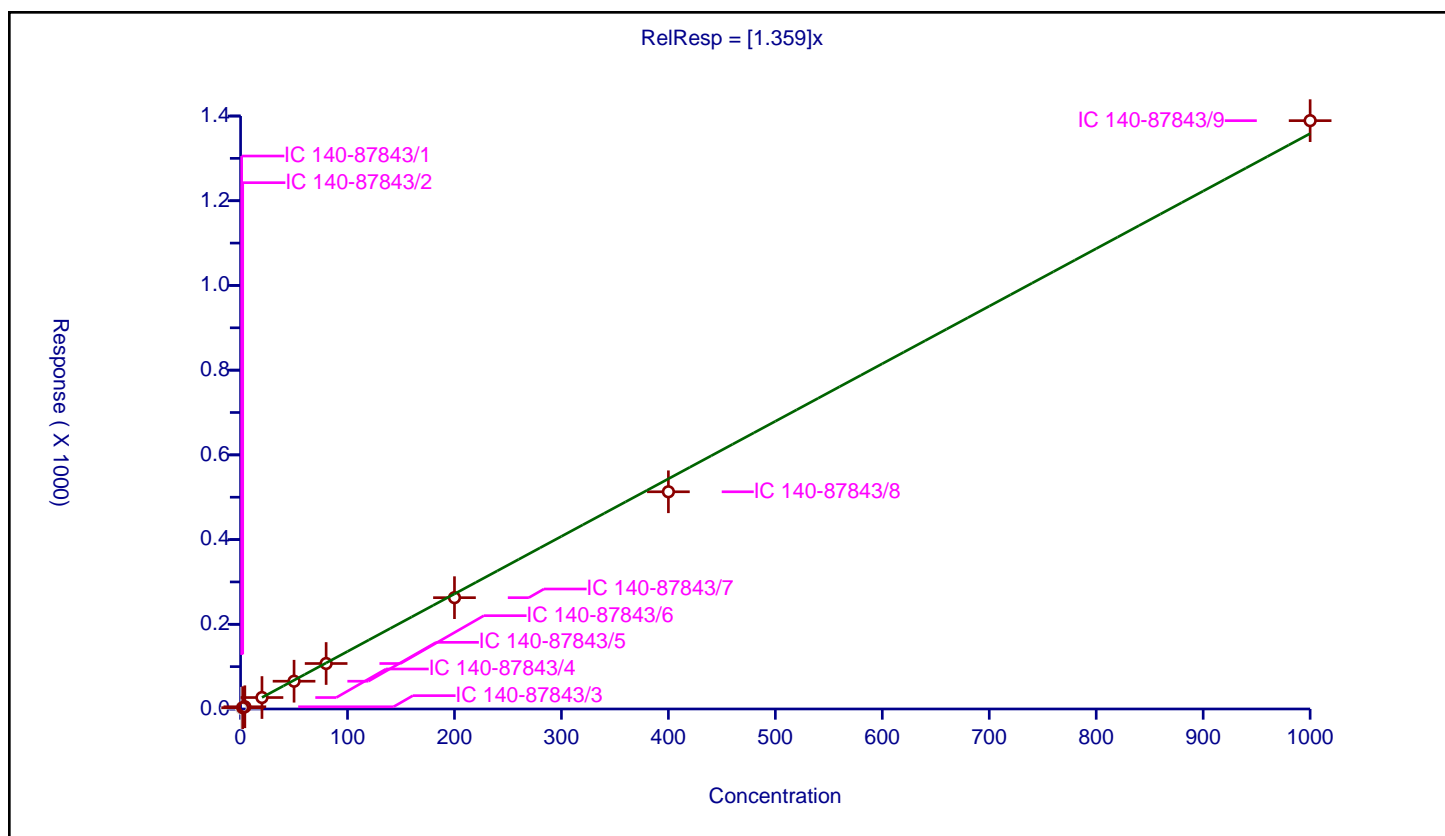
Curve Coefficients

Intercept: 0
Slope: 1.359

Error Coefficients

Relative Standard Deviation: 6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.76	100.0	2810000.0	1.76	N
2	IC 140-87843/2	2.0	3.115511	100.0	2927417.0	1.557756	Y
3	IC 140-87843/3	4.0	5.274407	100.0	3047129.0	1.318602	Y
4	IC 140-87843/4	20.0	27.054318	100.0	3635963.0	1.352716	Y
5	IC 140-87843/5	50.0	65.579811	100.0	3095933.0	1.311596	Y
6	IC 140-87843/6	80.0	107.408061	100.0	3339808.0	1.342601	Y
7	IC 140-87843/7	200.0	262.852584	100.0	3744430.0	1.314263	Y
8	IC 140-87843/8	400.0	512.849879	100.0	4474470.0	1.282125	Y
9	IC 140-87843/9	1000.0	1389.072733	100.0	5177443.0	1.389073	Y



Calibration

/ Anthracin-d10

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

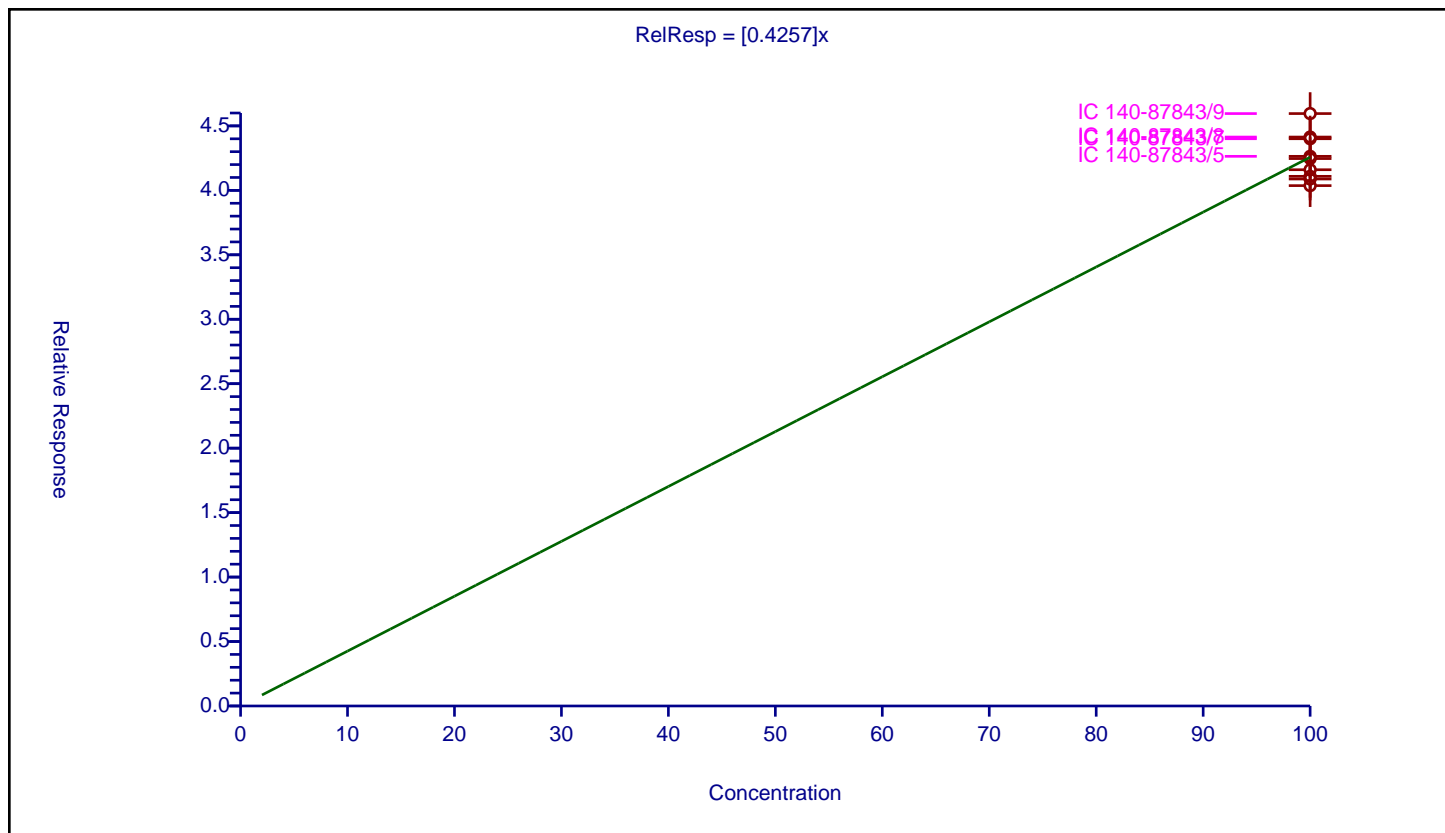
Curve Coefficients

Intercept: 0
Slope: 0.4257

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	100.0	40.88078	100.0	6636938.0	0.408808	Y
2	IC 140-87843/2	100.0	41.088718	100.0	7097800.0	0.410887	Y
3	IC 140-87843/3	100.0	40.367304	100.0	7063080.0	0.403673	Y
4	IC 140-87843/4	100.0	42.463702	100.0	7837595.0	0.424637	Y
5	IC 140-87843/5	100.0	42.640643	100.0	6994144.0	0.426406	Y
6	IC 140-87843/6	100.0	41.600276	100.0	7731706.0	0.416003	Y
7	IC 140-87843/7	100.0	44.004191	100.0	8045261.0	0.440042	Y
8	IC 140-87843/8	100.0	44.135594	100.0	9327125.0	0.441356	Y
9	IC 140-87843/9	100.0	45.956827	100.0	9953605.0	0.459568	Y



Calibration

/ Benzo[a]anthracene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

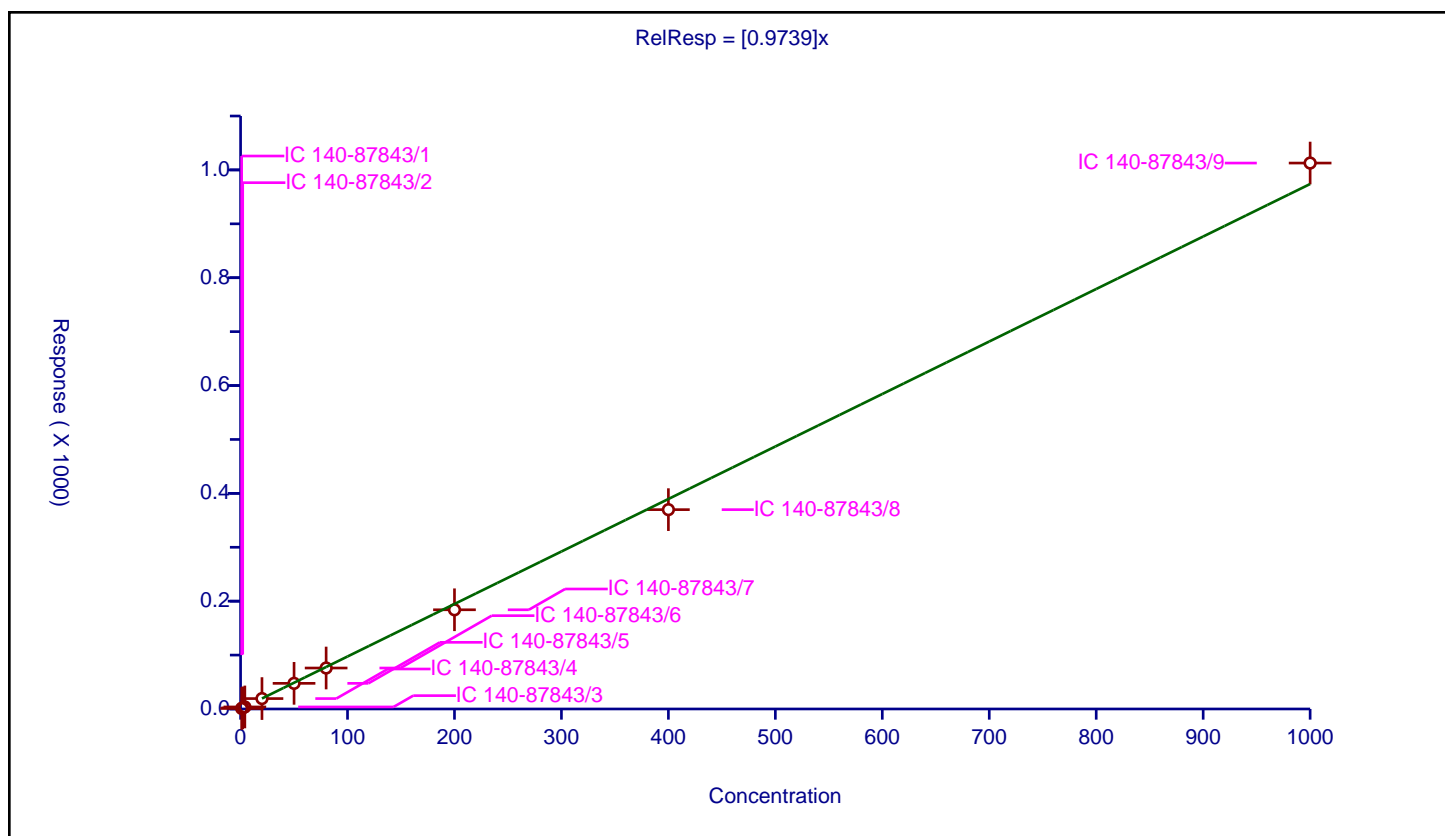
Curve Coefficients

Intercept: 0
Slope: 0.9739

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.03781	100.0	7605148.0	1.03781	Y
2	IC 140-87843/2	2.0	2.121091	100.0	7671524.0	1.060545	Y
3	IC 140-87843/3	4.0	3.769102	100.0	7504068.0	0.942276	Y
4	IC 140-87843/4	20.0	19.315776	100.0	7704055.0	0.965789	Y
5	IC 140-87843/5	50.0	47.551652	100.0	7783391.0	0.951033	Y
6	IC 140-87843/6	80.0	75.994072	100.0	8168778.0	0.949926	Y
7	IC 140-87843/7	200.0	184.021642	100.0	8485215.0	0.920108	Y
8	IC 140-87843/8	400.0	369.79461	100.0	10694535.0	0.924487	Y
9	IC 140-87843/9	1000.0	1012.761185	100.0	12260100.0	1.012761	Y



Calibration

/ Benzo[a]pyrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

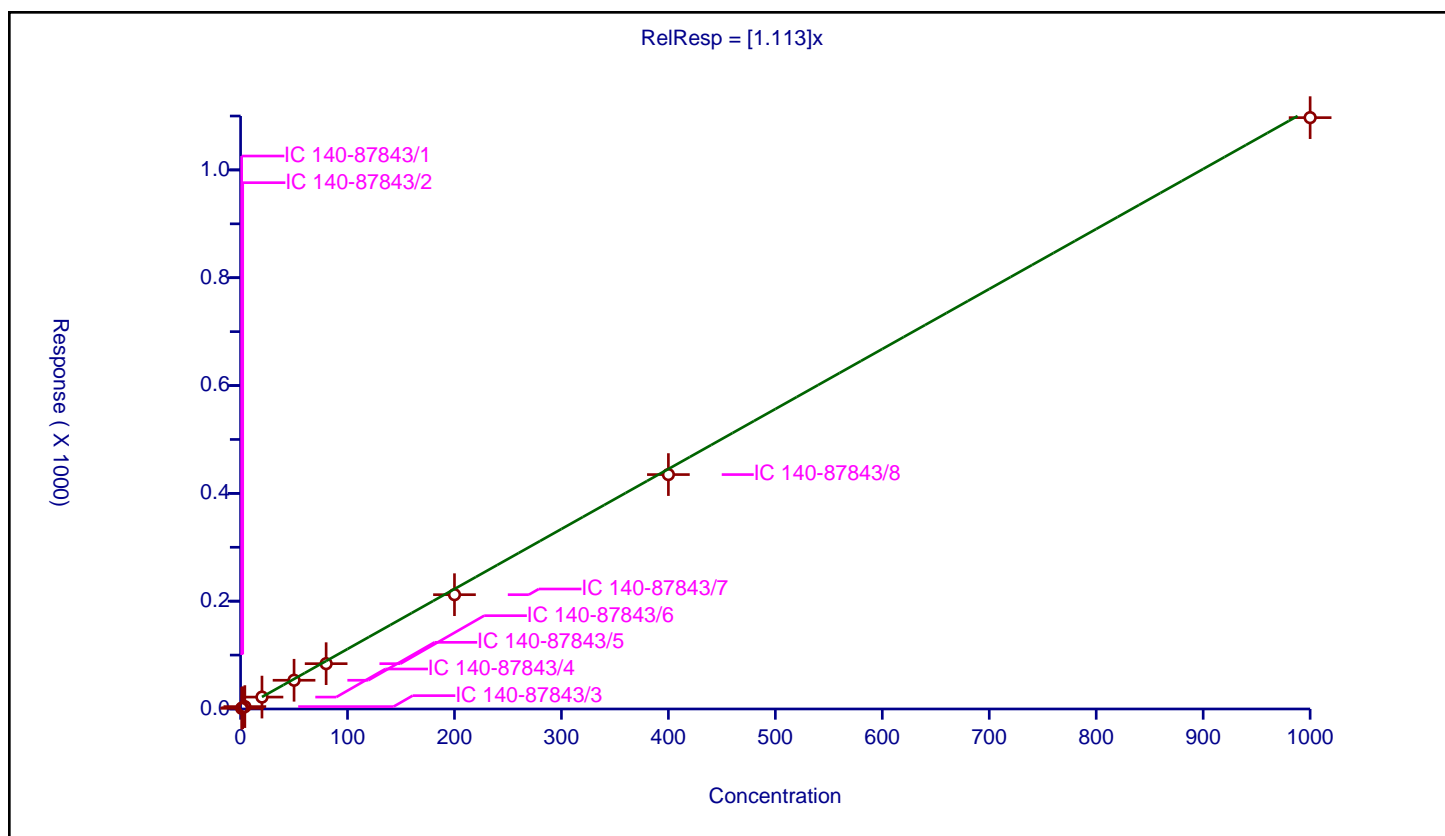
Curve Coefficients

Intercept: 0
Slope: 1.113

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.241342	100.0	7271246.0	1.241342	Y
2	IC 140-87843/2	2.0	2.419433	100.0	7368833.0	1.209717	Y
3	IC 140-87843/3	4.0	4.403362	100.0	7222186.0	1.100841	Y
4	IC 140-87843/4	20.0	22.082888	100.0	7518310.0	1.104144	Y
5	IC 140-87843/5	50.0	53.316967	100.0	7915726.0	1.066339	Y
6	IC 140-87843/6	80.0	84.058294	100.0	8413993.0	1.050729	Y
7	IC 140-87843/7	200.0	212.026695	100.0	8772202.0	1.060133	Y
8	IC 140-87843/8	400.0	434.832634	100.0	11267474.0	1.087082	Y
9	IC 140-87843/9	1000.0	1096.960517	100.0	14479273.0	1.096961	Y



Calibration

/ Benzo[b]fluoranthene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

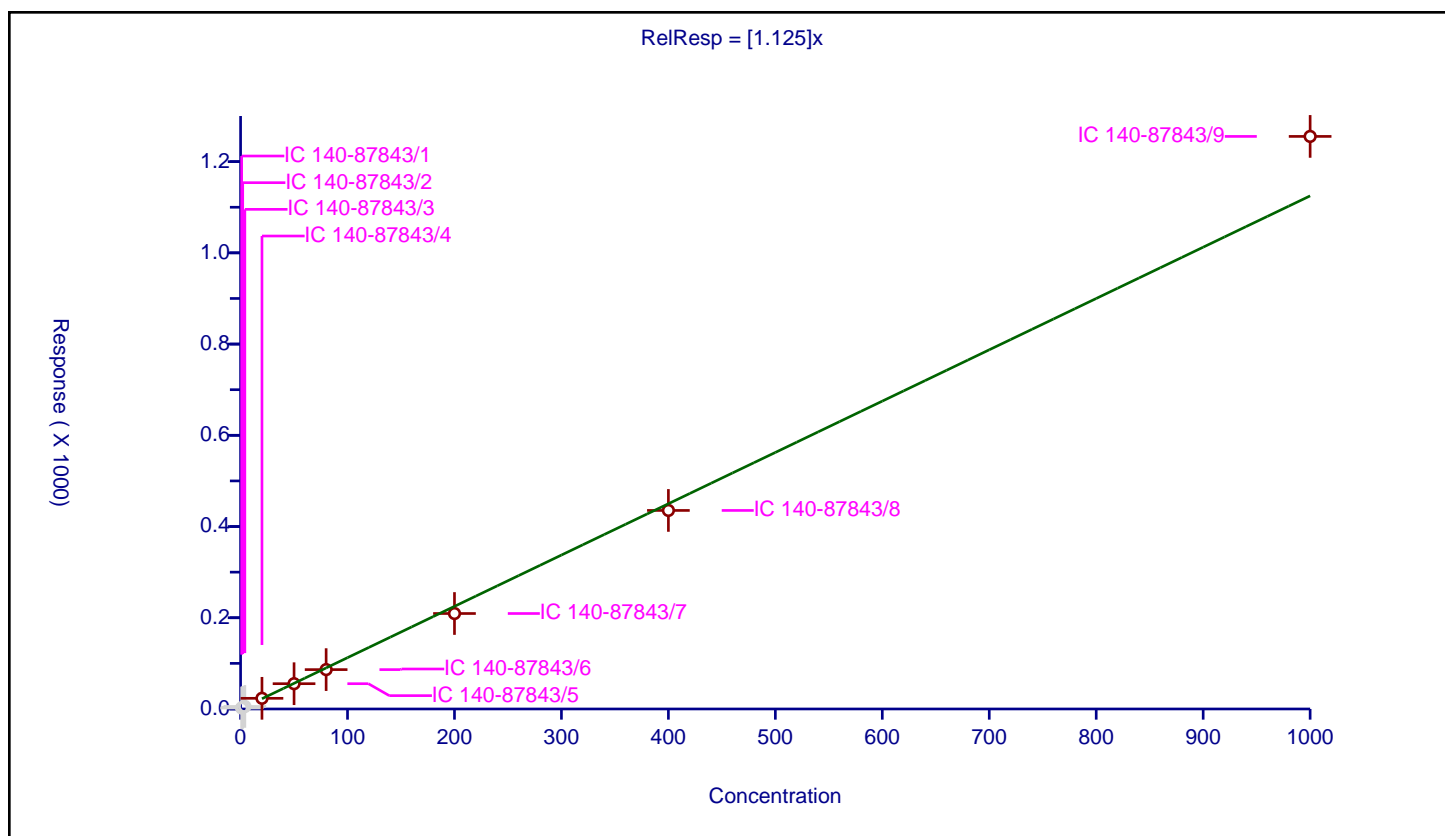
Curve Coefficients

Intercept: 0
Slope: 1.125

Error Coefficients

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	2.218432	100.0	7044571.0	2.218432	N
2	IC 140-87843/2	2.0	3.520719	100.0	6995957.0	1.76036	N
3	IC 140-87843/3	4.0	5.577365	100.0	6808556.0	1.394341	N
4	IC 140-87843/4	20.0	23.426326	100.0	7226370.0	1.171316	Y
5	IC 140-87843/5	50.0	55.443172	100.0	7699352.0	1.108863	Y
6	IC 140-87843/6	80.0	86.347694	100.0	8052237.0	1.079346	Y
7	IC 140-87843/7	200.0	209.295166	100.0	8615715.0	1.046476	Y
8	IC 140-87843/8	400.0	435.284705	100.0	10435051.0	1.088212	Y
9	IC 140-87843/9	1000.0	1255.252954	100.0	12410189.0	1.255253	Y



Calibration

/ Benzo[e]pyrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

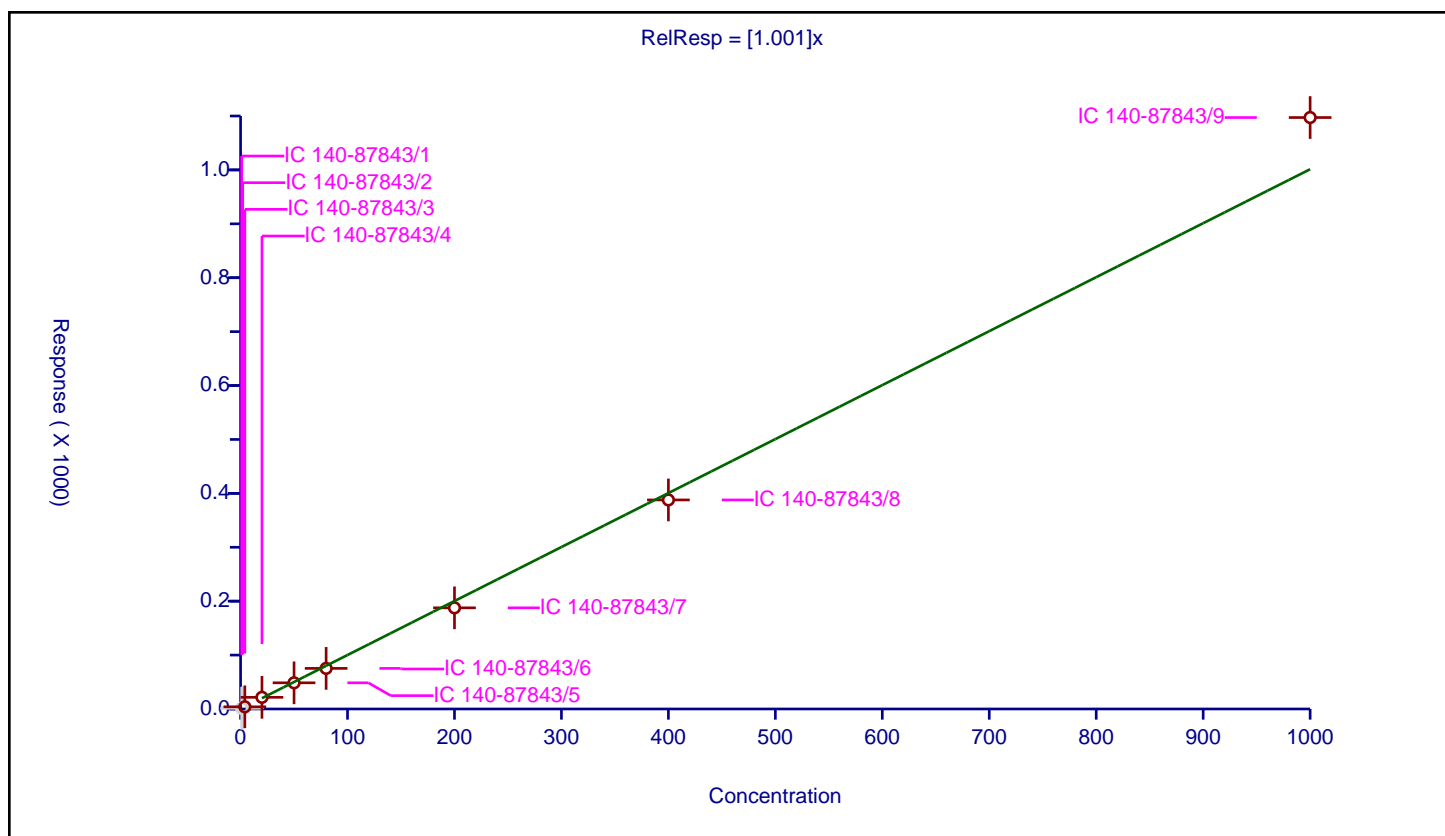
Curve Coefficients

Intercept: 0
Slope: 1.001

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.257228	100.0	7869617.0	1.257228	N
2	IC 140-87843/2	2.0	2.500018	100.0	7870944.0	1.250009	N
3	IC 140-87843/3	4.0	4.033169	100.0	7853527.0	1.008292	Y
4	IC 140-87843/4	20.0	21.65788	100.0	8133857.0	1.082894	Y
5	IC 140-87843/5	50.0	48.569391	100.0	8346864.0	0.971388	Y
6	IC 140-87843/6	80.0	75.305819	100.0	9036295.0	0.941323	Y
7	IC 140-87843/7	200.0	187.652164	100.0	9276322.0	0.938261	Y
8	IC 140-87843/8	400.0	387.812314	100.0	11723054.0	0.969531	Y
9	IC 140-87843/9	1000.0	1097.197805	100.0	14222064.0	1.097198	Y



Calibration

/ Benzo[g,h,i]perylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

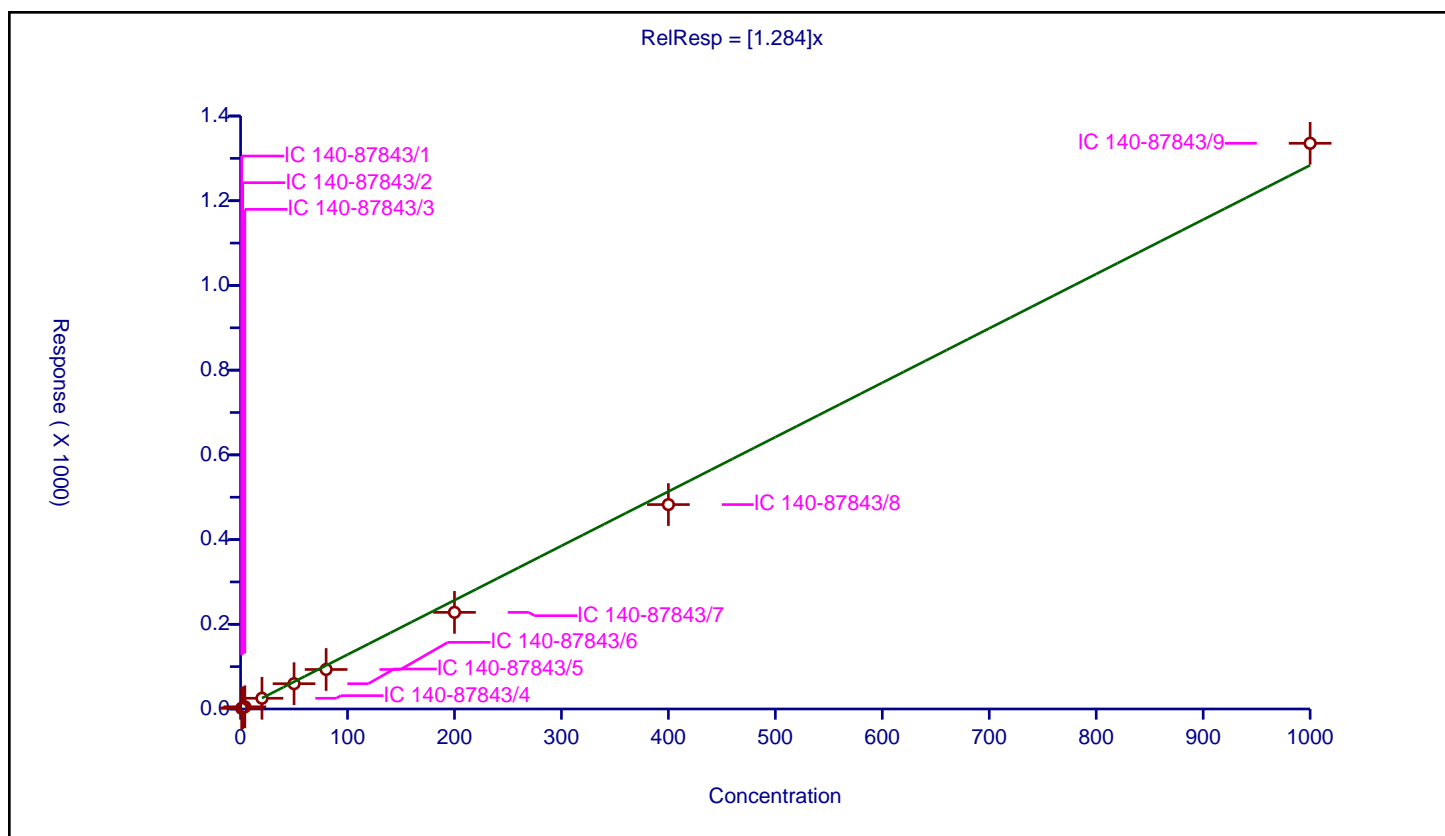
Curve Coefficients

Intercept: 0
Slope: 1.284

Error Coefficients

Relative Standard Deviation: 9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.516658	100.0	5925593.0	1.516658	Y
2	IC 140-87843/2	2.0	2.869052	100.0	6532018.0	1.434526	Y
3	IC 140-87843/3	4.0	5.167395	100.0	5830946.0	1.291849	Y
4	IC 140-87843/4	20.0	25.354433	100.0	6056294.0	1.267722	Y
5	IC 140-87843/5	50.0	59.702766	100.0	6552075.0	1.194055	Y
6	IC 140-87843/6	80.0	93.285458	100.0	7011632.0	1.166068	Y
7	IC 140-87843/7	200.0	228.146826	100.0	7551974.0	1.140734	Y
8	IC 140-87843/8	400.0	482.641798	100.0	9250572.0	1.206604	Y
9	IC 140-87843/9	1000.0	1335.585921	100.0	11042946.0	1.335586	Y



Calibration

/ Benzo[k]fluoranthene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

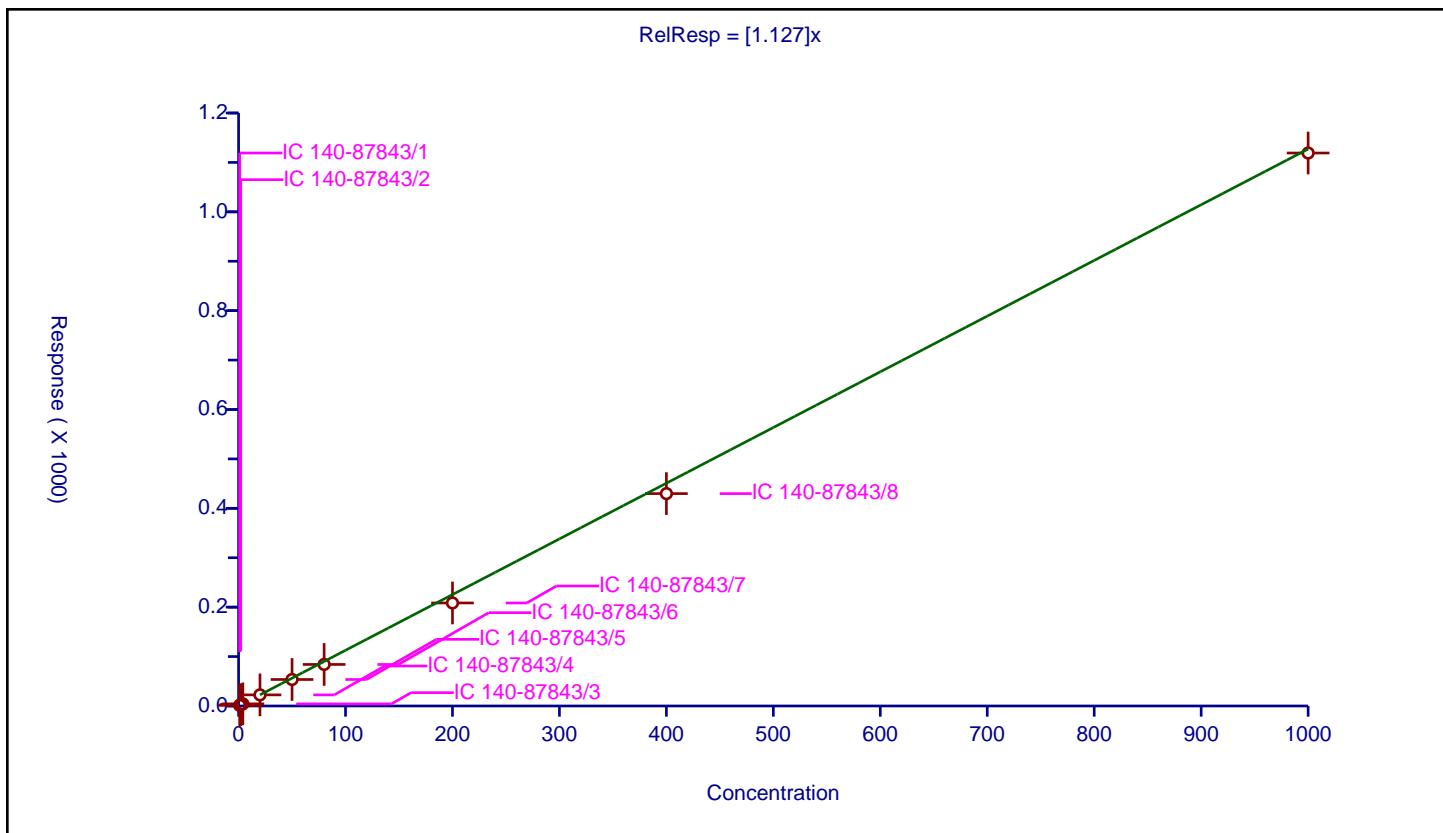
Curve Coefficients

Intercept: 0
 Slope: 1.127

Error Coefficients

Relative Standard Deviation: 9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.247204	100.0	8157925.0	1.247204	Y
2	IC 140-87843/2	2.0	2.68761	100.0	8172987.0	1.343805	Y
3	IC 140-87843/3	4.0	4.275765	100.0	8218810.0	1.068941	Y
4	IC 140-87843/4	20.0	22.48628	100.0	8387092.0	1.124314	Y
5	IC 140-87843/5	50.0	53.627197	100.0	9021801.0	1.072544	Y
6	IC 140-87843/6	80.0	84.067587	100.0	9461461.0	1.050845	Y
7	IC 140-87843/7	200.0	208.512326	100.0	10118186.0	1.042562	Y
8	IC 140-87843/8	400.0	429.801092	100.0	12917530.0	1.074503	Y
9	IC 140-87843/9	1000.0	1119.032455	100.0	16130058.0	1.119032	Y



Calibration

/ Chrysene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

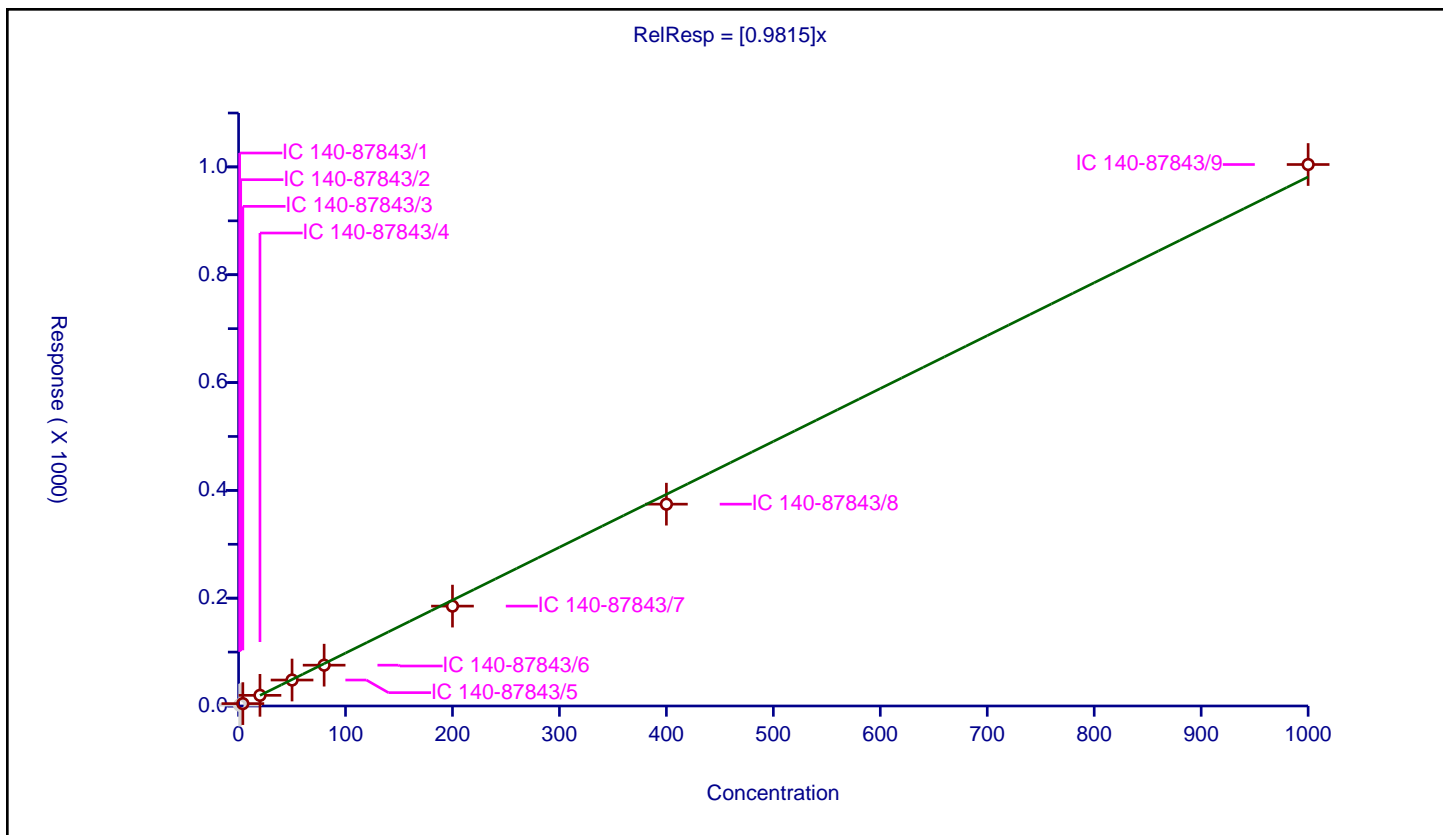
Curve Coefficients

Intercept: 0
Slope: 0.9815

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.537554	100.0	7872763.0	1.537554	N
2	IC 140-87843/2	2.0	2.757934	100.0	8190879.0	1.378967	N
3	IC 140-87843/3	4.0	4.42542	100.0	7844204.0	1.106355	Y
4	IC 140-87843/4	20.0	19.754729	100.0	8166961.0	0.987736	Y
5	IC 140-87843/5	50.0	48.13393	100.0	8407429.0	0.962679	Y
6	IC 140-87843/6	80.0	75.723312	100.0	8805464.0	0.946541	Y
7	IC 140-87843/7	200.0	185.284376	100.0	9283915.0	0.926422	Y
8	IC 140-87843/8	400.0	374.389838	100.0	11695295.0	0.935975	Y
9	IC 140-87843/9	1000.0	1004.470404	100.0	13421719.0	1.00447	Y



Calibration

/ Dibenz(a,h)anthracene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

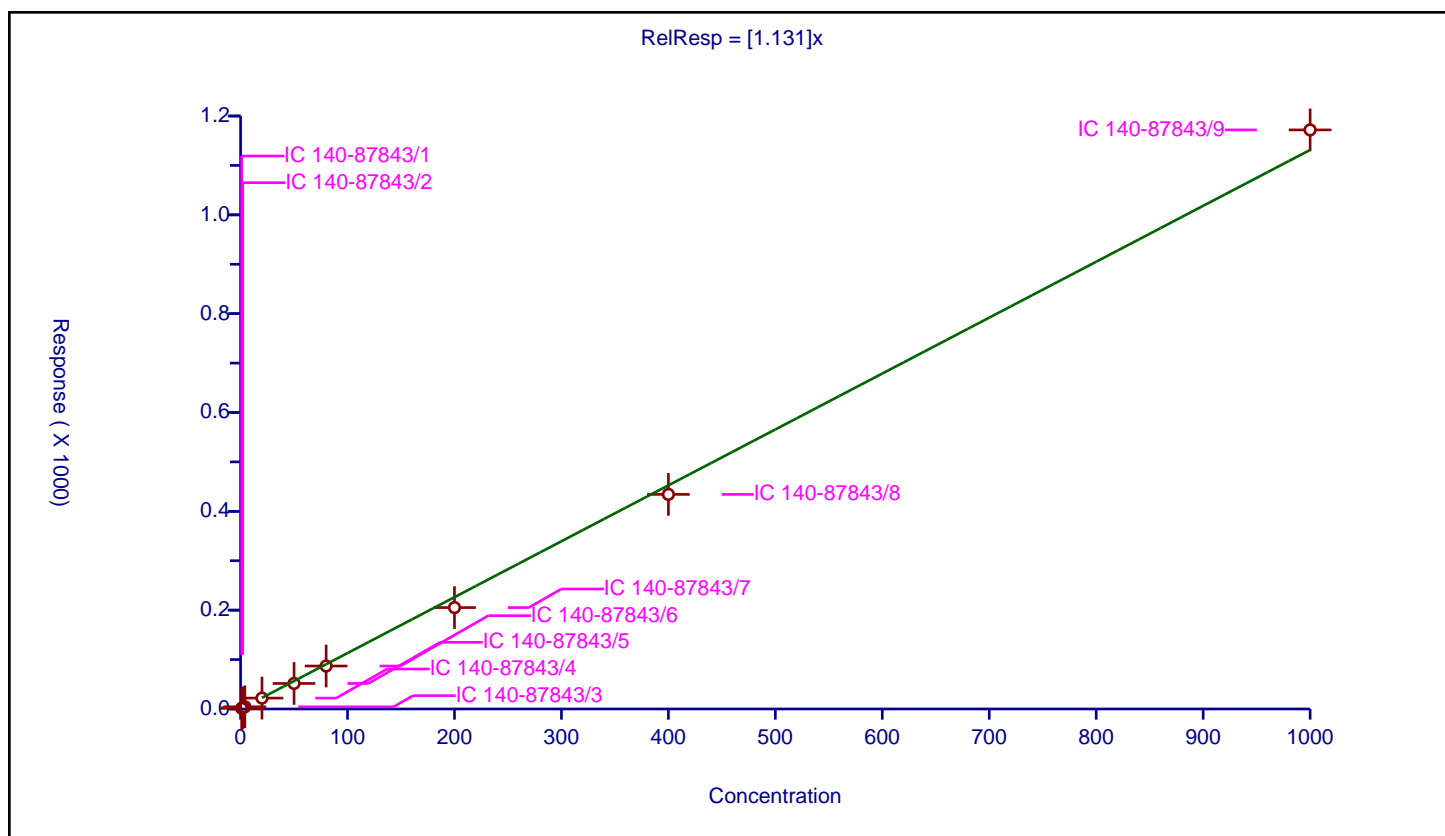
Curve Coefficients

Intercept: 0
Slope: 1.131

Error Coefficients

Relative Standard Deviation: 9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.356093	100.0	5080699.0	1.356093	Y
2	IC 140-87843/2	2.0	2.433341	100.0	5414078.0	1.216671	Y
3	IC 140-87843/3	4.0	4.416368	100.0	4776504.0	1.104092	Y
4	IC 140-87843/4	20.0	22.029045	100.0	4988169.0	1.101452	Y
5	IC 140-87843/5	50.0	51.677938	100.0	5397040.0	1.033559	Y
6	IC 140-87843/6	80.0	86.947855	100.0	5580937.0	1.086848	Y
7	IC 140-87843/7	200.0	205.213845	100.0	6110020.0	1.026069	Y
8	IC 140-87843/8	400.0	434.276418	100.0	7695778.0	1.085691	Y
9	IC 140-87843/9	1000.0	1171.888099	100.0	9436274.0	1.171888	Y



Calibration

/ Fluoranthene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

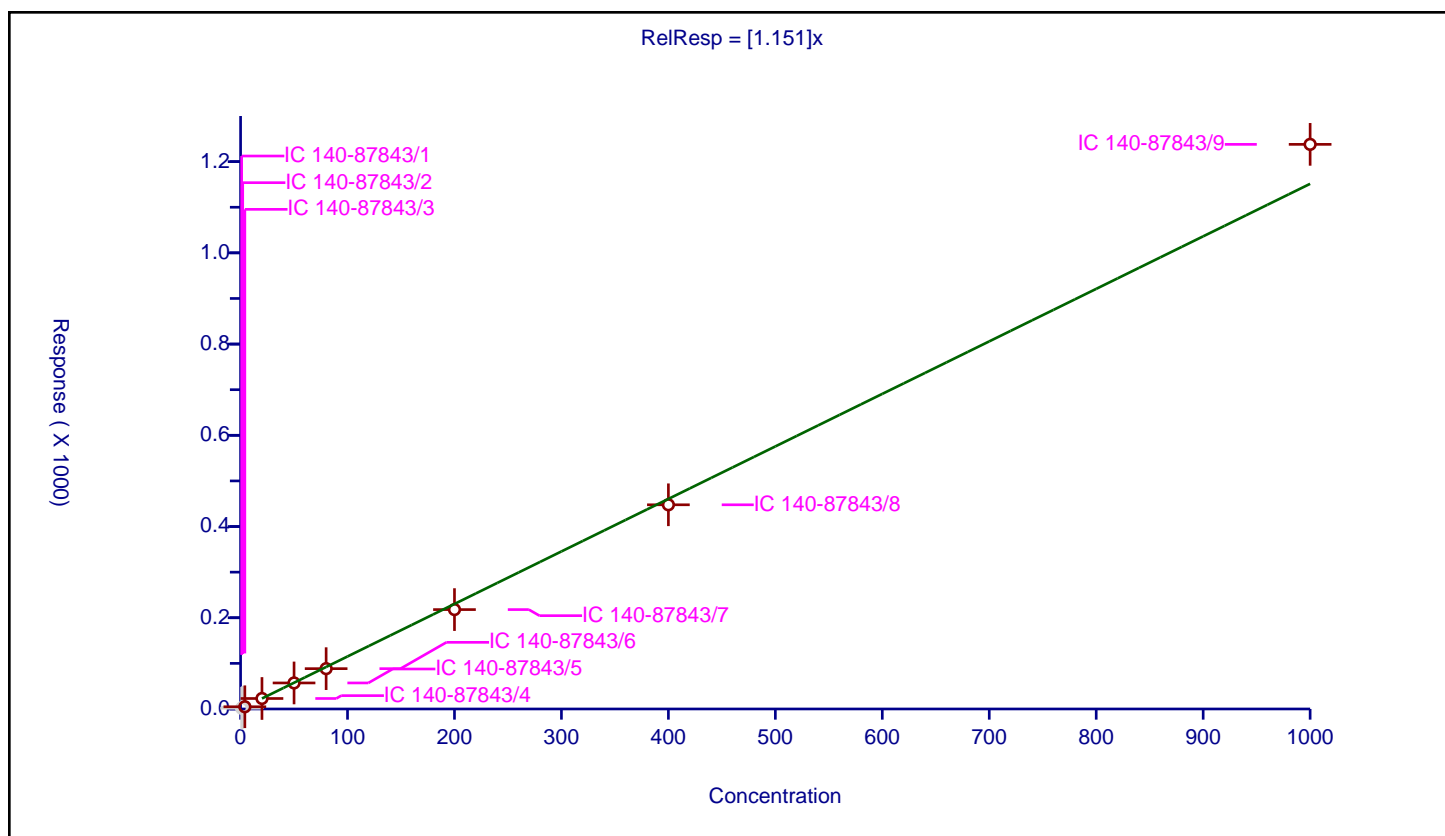
Curve Coefficients

Intercept: 0
Slope: 1.151

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.670143	100.0	7580251.0	1.670143	N
2	IC 140-87843/2	2.0	3.655564	100.0	7938309.0	1.827782	N
3	IC 140-87843/3	4.0	4.857213	100.0	8154780.0	1.214303	Y
4	IC 140-87843/4	20.0	23.025217	100.0	9182667.0	1.151261	Y
5	IC 140-87843/5	50.0	57.099674	100.0	8354538.0	1.141993	Y
6	IC 140-87843/6	80.0	88.405901	100.0	9143194.0	1.105074	Y
7	IC 140-87843/7	200.0	217.919372	100.0	9842103.0	1.089597	Y
8	IC 140-87843/8	400.0	447.660159	100.0	11997910.0	1.11915	Y
9	IC 140-87843/9	1000.0	1237.867289	100.0	13148739.0	1.237867	Y



Calibration

/ Fluorene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

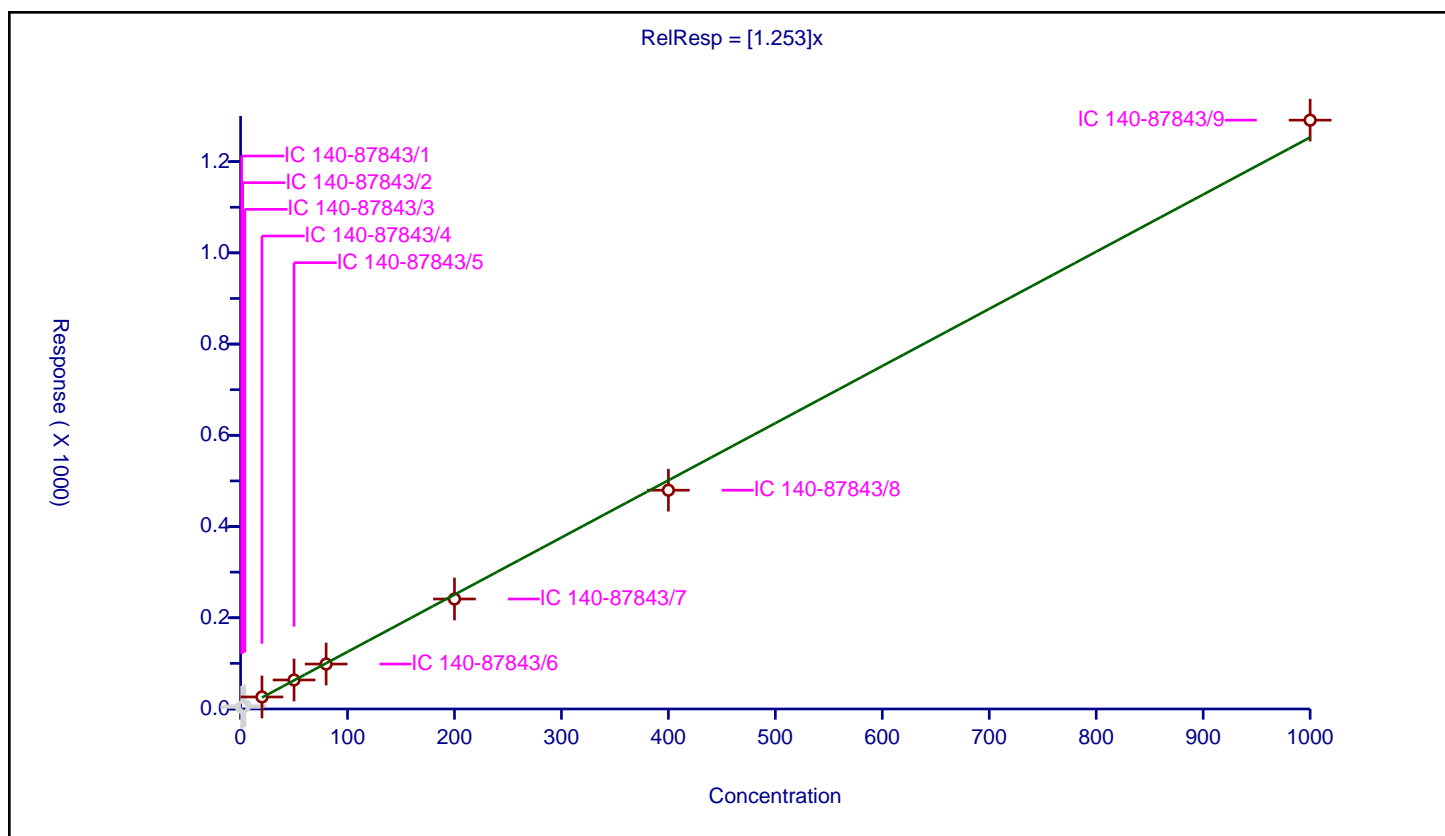
Curve Coefficients

Intercept: 0
 Slope: 1.253

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	3.758561	100.0	2300375.0	3.758561	N
2	IC 140-87843/2	2.0	4.572201	100.0	2550369.0	2.286101	N
3	IC 140-87843/3	4.0	6.902788	100.0	2635457.0	1.725697	N
4	IC 140-87843/4	20.0	26.390271	100.0	3098767.0	1.319514	Y
5	IC 140-87843/5	50.0	63.615901	100.0	2645576.0	1.272318	Y
6	IC 140-87843/6	80.0	98.518293	100.0	3234715.0	1.231479	Y
7	IC 140-87843/7	200.0	241.108161	100.0	3285389.0	1.205541	Y
8	IC 140-87843/8	400.0	479.670436	100.0	3801144.0	1.199176	Y
9	IC 140-87843/9	1000.0	1290.908505	100.0	4314043.0	1.290909	Y



Calibration

/ Indeno[1,2,3-cd]pyrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

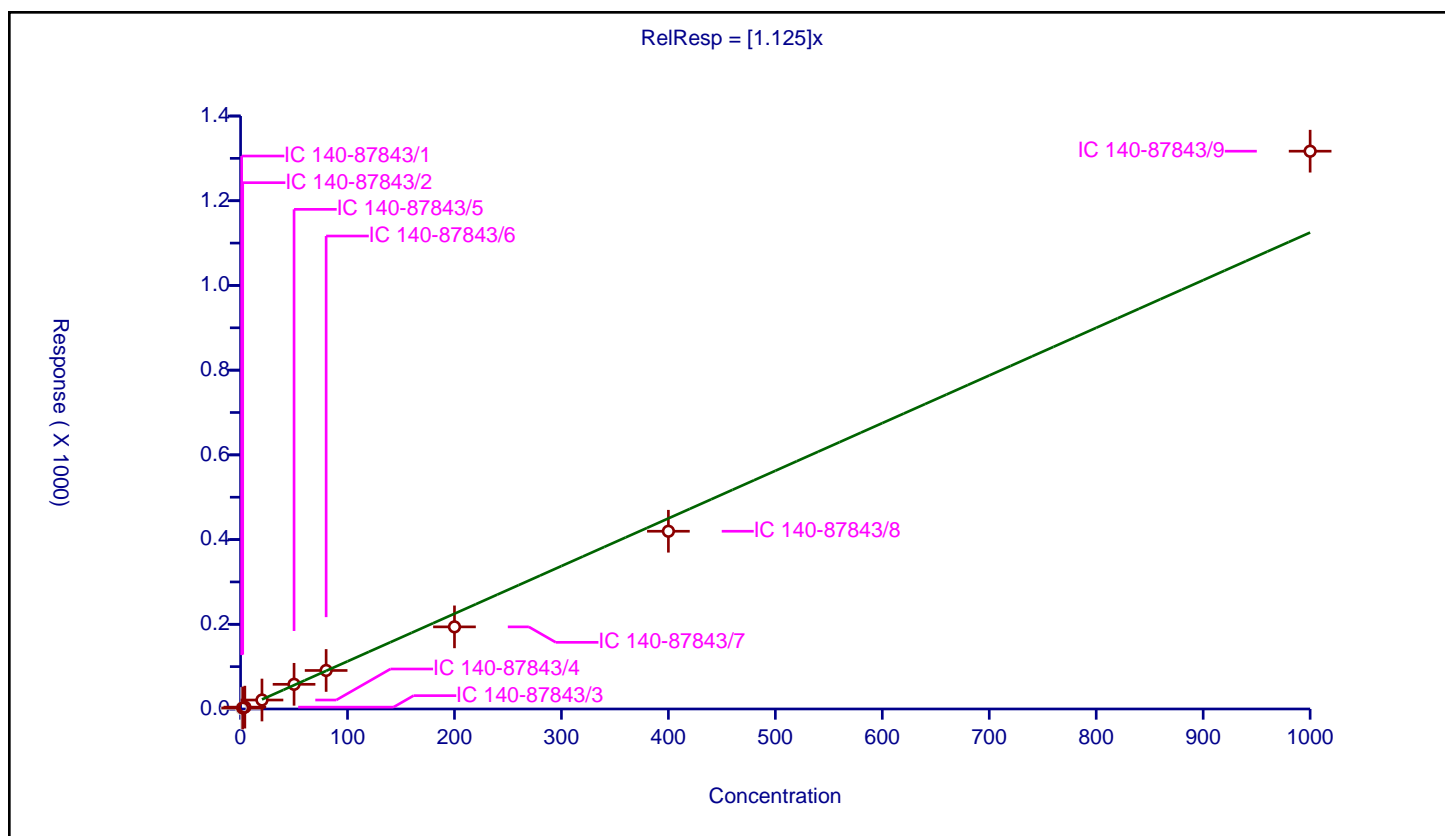
Curve Coefficients

Intercept: 0
Slope: 1.125

Error Coefficients

Relative Standard Deviation: 9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.318012	100.0	4910654.0	1.318012	N
2	IC 140-87843/2	2.0	2.411491	100.0	5418391.0	1.205745	Y
3	IC 140-87843/3	4.0	4.39401	100.0	4630053.0	1.098503	Y
4	IC 140-87843/4	20.0	21.156291	100.0	5157889.0	1.057815	Y
5	IC 140-87843/5	50.0	58.243265	100.0	4835402.0	1.164865	Y
6	IC 140-87843/6	80.0	90.975877	100.0	5212706.0	1.137198	Y
7	IC 140-87843/7	200.0	193.881836	100.0	6349503.0	0.969409	Y
8	IC 140-87843/8	400.0	419.632644	100.0	7511958.0	1.049082	Y
9	IC 140-87843/9	1000.0	1316.924276	100.0	8585756.0	1.316924	Y



Calibration

/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

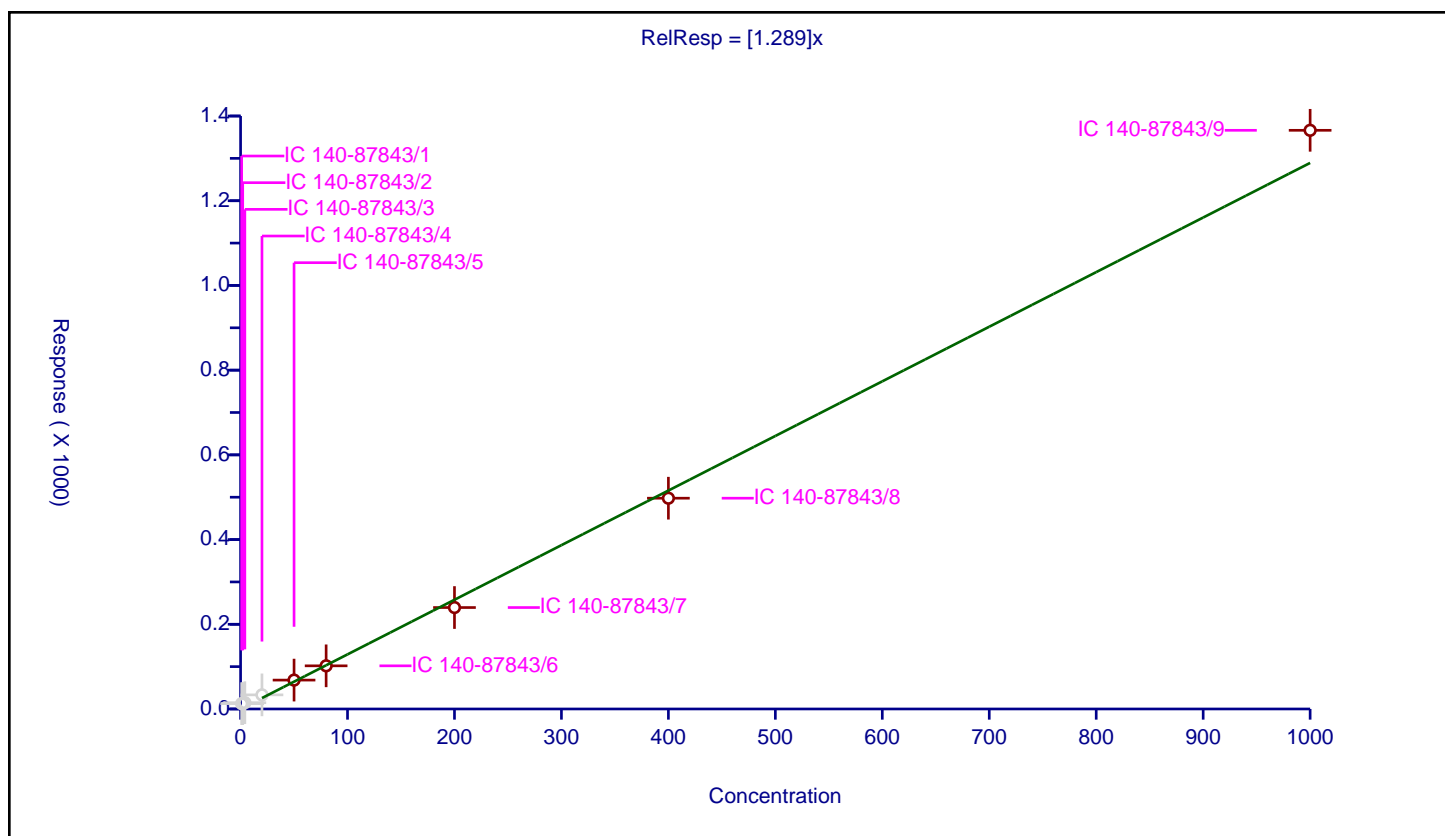
Curve Coefficients

Intercept: 0
Slope: 1.289

Error Coefficients

Relative Standard Deviation: 5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	12.609299	100.0	9958539.0	12.609299	N
2	IC 140-87843/2	2.0	12.614015	100.0	10224350.0	6.307007	N
3	IC 140-87843/3	4.0	14.91186	100.0	10437430.0	3.727965	N
4	IC 140-87843/4	20.0	33.315879	100.0	11716317.0	1.665794	N
5	IC 140-87843/5	50.0	68.215465	100.0	10955076.0	1.364309	Y
6	IC 140-87843/6	80.0	101.918	100.0	10869499.0	1.273975	Y
7	IC 140-87843/7	200.0	239.530616	100.0	12167731.0	1.197653	Y
8	IC 140-87843/8	400.0	497.650715	100.0	13369772.0	1.244127	Y
9	IC 140-87843/9	1000.0	1366.234926	100.0	14774767.0	1.366235	Y



Calibration

/ Perylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

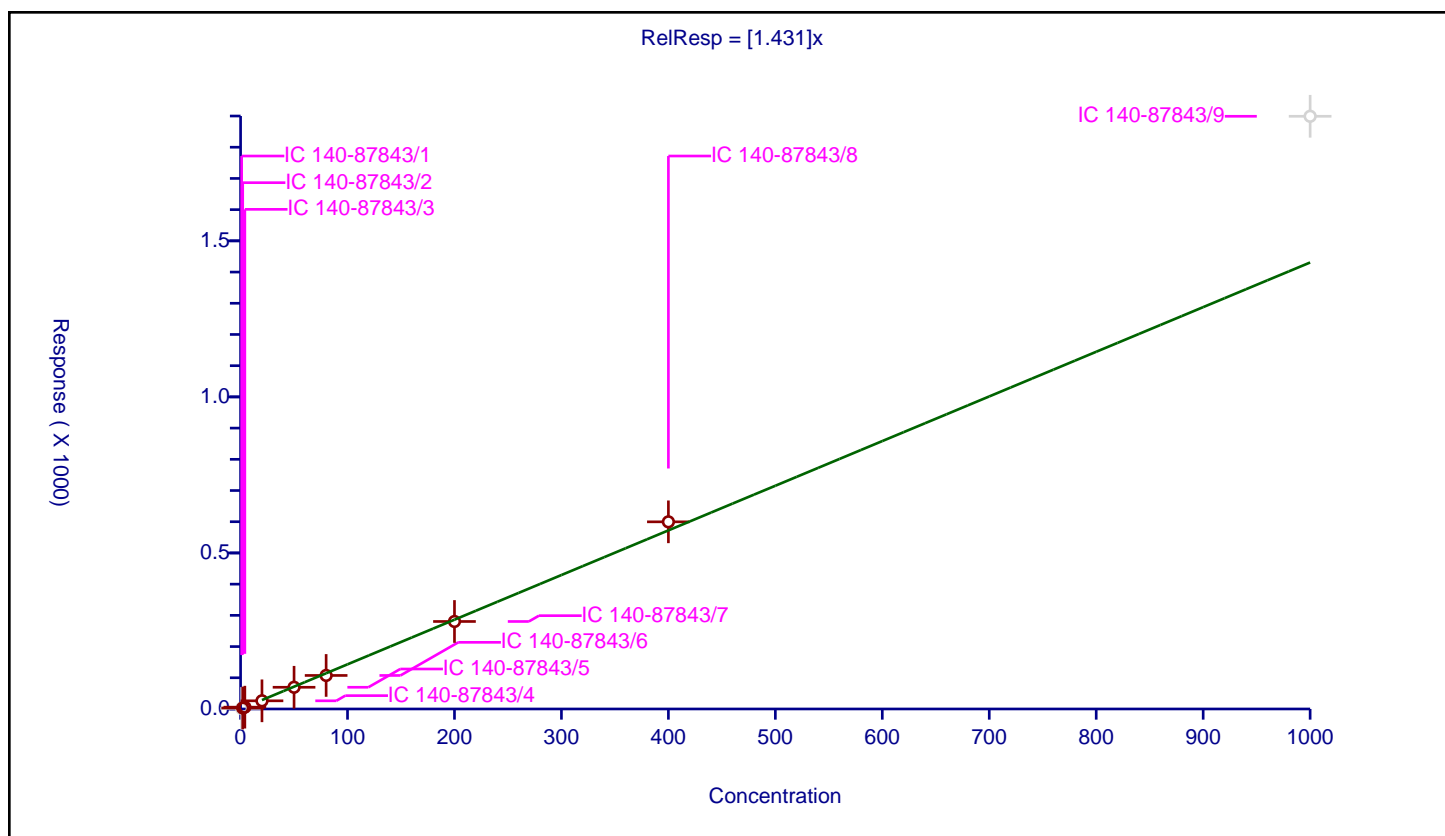
Curve Coefficients

Intercept: 0
Slope: 1.431

Error Coefficients

Relative Standard Deviation: 7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.860706	100.0	5662636.0	1.860706	N
2	IC 140-87843/2	2.0	3.203678	100.0	5811383.0	1.601839	Y
3	IC 140-87843/3	4.0	5.864918	100.0	5628212.0	1.466229	Y
4	IC 140-87843/4	20.0	26.201245	100.0	6075448.0	1.310062	Y
5	IC 140-87843/5	50.0	69.618739	100.0	6306802.0	1.392375	Y
6	IC 140-87843/6	80.0	107.439095	100.0	6805855.0	1.342989	Y
7	IC 140-87843/7	200.0	280.414458	100.0	7004851.0	1.402072	Y
8	IC 140-87843/8	400.0	599.65743	100.0	8439141.0	1.499144	Y
9	IC 140-87843/9	1000.0	1899.103982	100.0	9436646.0	1.899104	N



Calibration

/ Phenanthrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

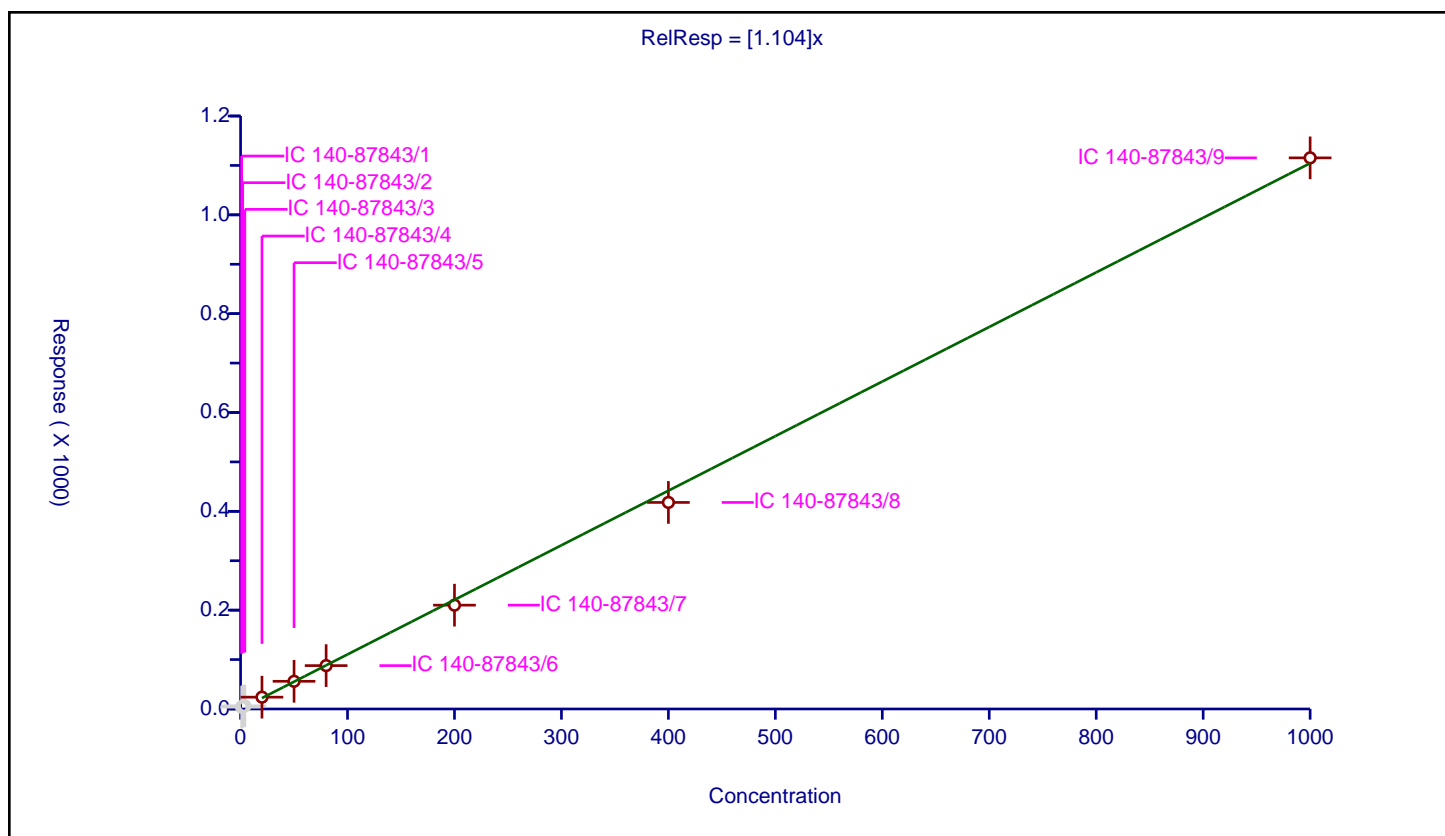
Curve Coefficients

Intercept: 0
Slope: 1.104

Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	3.633317	100.0	3481612.0	3.633317	N
2	IC 140-87843/2	2.0	5.665578	100.0	3753474.0	2.832789	N
3	IC 140-87843/3	4.0	6.21547	100.0	3834191.0	1.553868	N
4	IC 140-87843/4	20.0	23.9578	100.0	4480403.0	1.19789	Y
5	IC 140-87843/5	50.0	56.029235	100.0	4005566.0	1.120585	Y
6	IC 140-87843/6	80.0	87.776848	100.0	4194540.0	1.097211	Y
7	IC 140-87843/7	200.0	210.128129	100.0	4953590.0	1.050641	Y
8	IC 140-87843/8	400.0	417.99271	100.0	5572957.0	1.044982	Y
9	IC 140-87843/9	1000.0	1115.315735	100.0	6524734.0	1.115316	Y



Calibration

/ Pyrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

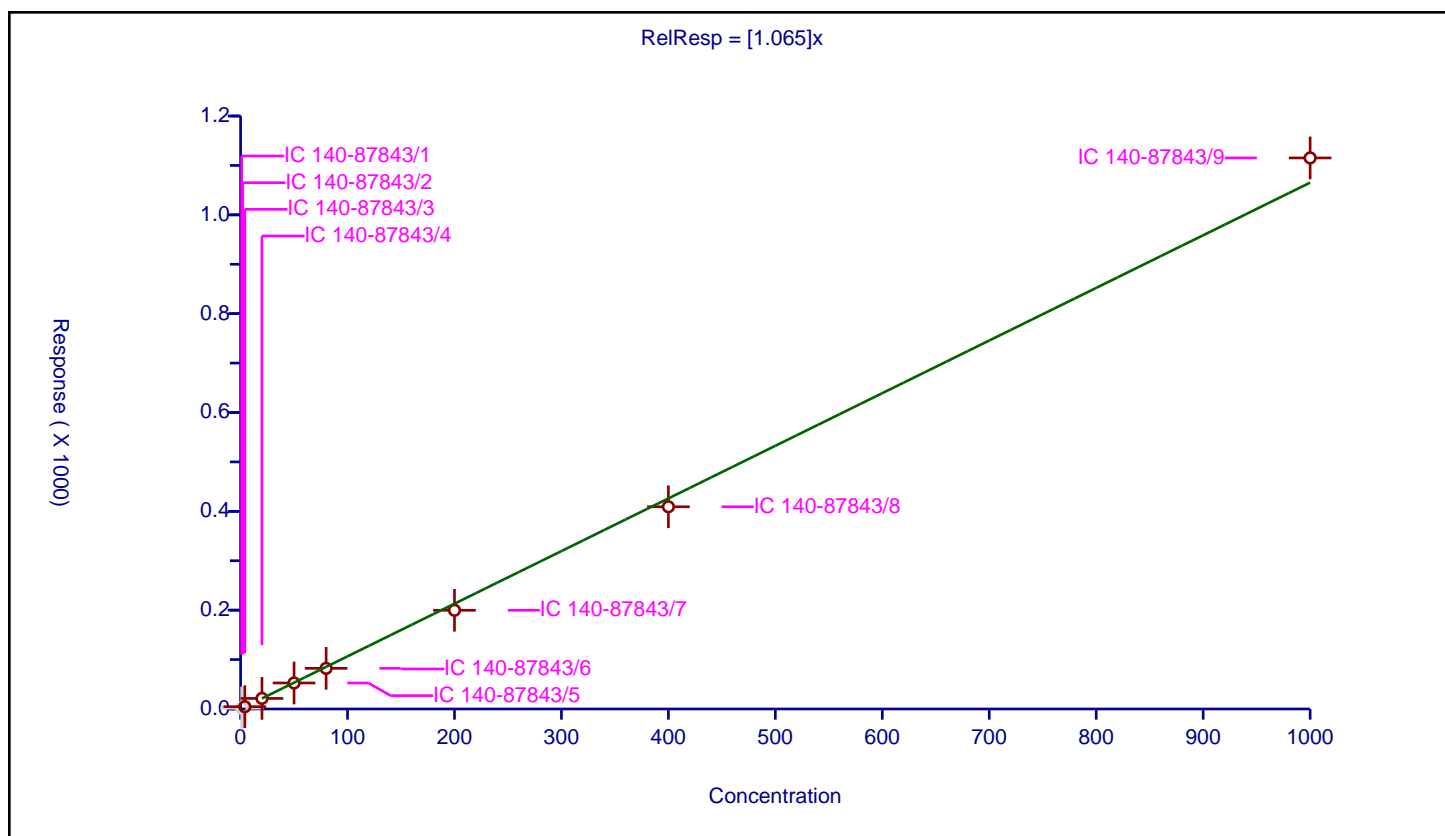
Curve Coefficients

Intercept: 0
Slope: 1.065

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.612584	100.0	8492459.0	1.612584	N
2	IC 140-87843/2	2.0	3.054751	100.0	8994056.0	1.527375	N
3	IC 140-87843/3	4.0	4.677314	100.0	9131545.0	1.169328	Y
4	IC 140-87843/4	20.0	21.380309	100.0	10292274.0	1.069015	Y
5	IC 140-87843/5	50.0	52.636984	100.0	9271369.0	1.05274	Y
6	IC 140-87843/6	80.0	82.26308	100.0	10295818.0	1.028289	Y
7	IC 140-87843/7	200.0	199.756681	100.0	11042272.0	0.998783	Y
8	IC 140-87843/8	400.0	409.246038	100.0	13356986.0	1.023115	Y
9	IC 140-87843/9	1000.0	1115.144428	100.0	15391681.0	1.115144	Y



FORM VII
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Lab Sample ID: ICV 140-87843/10 Calibration Date: 06/20/2024 02:46
 Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34
 GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09
 Lab File ID: d3240619icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C6-Naphthalene	Ave	3.375	3.132		92.8	100	-7.2	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.509		94.1	100	-5.9	30.0
13C6-Acenaphthylene	Ave	1.652	1.696		103	100	2.6	30.0
13C6-Acenaphthene	Ave	0.9792	0.9779		99.9	100	-0.1	30.0
13C6-Fluorene	Ave	0.8898	0.7920		89.0	100	-11.0	30.0
13C6-Phenanthrene	Ave	0.5724	0.6236		109	100	8.9	30.0
13C6-Anthracene	Ave	0.4523	0.4905		108	100	8.4	30.0
13C6-Fluoranthrene	Ave	1.199	1.318		110	100	9.9	30.0
13C3-Pyrene	Ave	1.351	1.457		108	100	7.9	30.0
13C6-Benzo (a) anthracene	Ave	1.519	1.656		109	100	9.0	30.0
13C6-Chrysene	Ave	1.629	1.770		109	100	8.7	30.0
13C6-Benzo (b) fluoranthene	Ave	1.462	1.616		111	100	10.5	30.0
13C6-Benzo (k) fluoranthene	Ave	1.751	1.936		111	100	10.6	30.0
13C4-Benzo (e) pyrene	Ave	1.637	1.838		112	100	12.3	30.0
13C4-Benzo (a) pyrene	Ave	1.551	1.689		109	100	8.9	30.0
Perylene-d12	Ave	1.192	1.234		104	100	3.5	30.0
13C6-Indeno (1,2,3-cd) pyrene	Ave	1.022	1.167		114	100	14.2	30.0
13C6-Dibenz (a,h) anthracene	Ave	1.055	1.350		128	100	27.9	30.0
13C12-Benzo (ghi) perylene	Ave	1.275	1.497		117	100	17.4	30.0

FORM VII
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Lab Sample ID: ICV 140-87843/10 Calibration Date: 06/20/2024 02:46
 Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34
 GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09
 Lab File ID: d3240619icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
Naphthalene	AveID	1.289	1.282		497	500	99	70-130
2-Methylnaphthalene	AveID	1.279	1.258		492	500	98	70-130
Acenaphthylene	AveID	2.366	2.441		516	500	103	70-130
Acenaphthene	AveID	1.270	1.246		491	500	98	70-130
Fluorene	AveID	1.253	1.254		500	500	100	70-130
Phenanthrene	AveID	1.104	1.110		503	500	101	70-130
Anthracene	AveID	1.359	1.325		488	500	98	70-130
Fluoranthene	AveID	1.151	1.174		510	500	102	70-130
Pyrene	AveID	1.065	1.115		524	500	105	70-130
Benzo[a]anthracene	AveID	0.9739	0.9740		500	500	100	70-130
Chrysene	AveID	0.9815	1.015		517	500	103	70-130
Benzo[b]fluoranthene	AveID	1.125	1.167		519	500	104	70-130
Benzo[k]fluoranthene	AveID	1.127	1.146		508	500	102	70-130
Benzo[e]pyrene	AveID	1.001	1.252		625	500	125	70-130
Benzo[a]pyrene	AveID	1.113	1.208		543	500	109	70-130
Perylene	AveID	1.431	1.620		566	500	113	70-130
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.094		486	500	97	70-130
Dibenz(a,h)anthracene	AveID	1.131	1.121		495	500	99	70-130
Benzo[g,h,i]perylene	AveID	1.284	1.262		491	500	98	70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 20-Jun-2024 02:46:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist:
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 25-Jun-2024 14:12:41 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1632

First Level Reviewer: TT6I

Date: 25-Jun-2024 14:12:41

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:41	13477442		3.3746	92.8	92.8	0.005803	0.005803	92.80	a
Naphthalene	11:41	86402026		1.2893	497.3	497.3	0.0680	0.0680	99.45	a
D 13C6-2-Methylnaphthalene	13:55	6493524		1.6031	94.1	94.1	0.001416	0.001416	94.12	
2-Methylnaphthalene	13:55	40858535		1.2786	492.1	492.1	0.0277	0.0277	98.43	
D 13C6-Acenaphthylene	16:47	7297545		1.6520	102.6	102.6	0.002237	0.002237	103	
Acenaphthylene	16:47	51372833		2.3661	515.9	515.9	0.0307	0.0307	103	
* Acenaphthene-d10	17:21	4303576		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:28	4208528		0.9792	99.9	99.9	0.002649	0.002649	99.87	
Acenaphthene	17:28	26212060		1.2697	490.5	490.5	0.0440	0.0440	98.11	
Fluorene	19:45	21363714		1.2532	500.2	500.2	0.0507	0.0507	100	
D 13C6-Fluorene	19:45	3408512		0.8898	89.0	89.0	0.001603	0.001603	89.01	
D 13C6-Phenanthrene	25:08	5503772		0.5724	108.9	108.9	0.006954	0.006954	109	
Phenanthrene	25:08	30546294		1.1044	502.5	502.5	0.0480	0.0480	101	
D 13C6-Anthracene	25:28	4329635		0.4523	108.4	108.4	0.008801	0.008801	108	
Anthracene	25:29	28688367		1.3586	487.7	487.7	0.0511	0.0511	97.54	
D 13C6-Fluoranthrene	33:53	11635330		1.1994	109.9	109.9	0.0283	0.0283	110	
Fluoranthene	33:54	68280213		1.1513	509.7	509.7	0.0239	0.0239	102	
* Pyrene-d10	35:26	8826302		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	12863803		1.3512	107.9	107.9	0.0150	0.0150	108	
Pyrene	35:35	71732321		1.0652	523.5	523.5	0.0246	0.0246	105	
D 13C6-Benzo(a)anthracene	46:07	11144764		1.5189	109.0	109.0	0.0119	0.0119	109	
Benzo[a]anthracene	46:08	54276958		0.9739	500.1	500.1	0.0462	0.0462	100	
D 13C6-Chrysene	46:24	11912007		1.6287	108.7	108.7	0.0111	0.0111	109	
Chrysene	46:24	60434818		0.9815	516.9	516.9	0.0455	0.0455	103	
D 13C6-Benzo(b)fluoranthene	54:40	10876736		1.4621	110.5	110.5	0.001204	0.001204	111	
Benzo[b]fluoranthene	54:40	63447136		1.1249	518.6	518.6	0.007804	0.007804	104	
D 13C6-Benzo(k)fluoranthene	54:47	13027765		1.7507	110.6	110.6	0.001005	0.001005	111	
Benzo[k]fluoranthene	54:47	74650027		1.1271	508.4	508.4	0.006593	0.006593	102	
* Benzo(e)pyrene-d12	55:31	6729891		5.7E+04	100.0	100.0				
Benzo[e]pyrene	55:36	77451657		1.0013	625.2	625.2	0.006018	0.006018	125	
D 13C4-Benzo(e)pyrene	55:36	12371926		1.6368	112.3	112.3	0.009057	0.009057	112	
Benzo[a]pyrene	55:44	68663102		1.1130	542.7	542.7	0.005983	0.005983	109	
D 13C4-Benzo(a)pyrene	55:44	11367582		1.5508	108.9	108.9	0.009560	0.009560	109	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D Perylene-d12	55:54	8303002		1.1917	103.5	103.5	0.0118	0.0118	104	
Perylene	55:58	67252708		1.4307	566.2	566.2	0.006120	0.006120	113	E
D 13C6-Indeno(1,2,3-cd)pyrene	58:02	7856573		1.0218	114.2	114.2	0.0102	0.0102	114	
Indeno[1,2,3-cd]pyrene	58:03	42975857		1.1249	486.3	486.3	0.0191	0.0191	97.25	
D 13C6-Dibenz(a,h)anthracene	58:07	9084543		1.0553	127.9	127.9	0.005211	0.005211	128	
Dibenz(a,h)anthracene	58:07	50916184		1.1314	495.4	495.4	0.009530	0.009530	99.08	
D 13C12-Benzo(ghi)perylene	58:30	10075910		1.2749	117.4	117.4	0.002070	0.002070	117	
Benzo[g,h,i]perylene	58:32	63565210		1.2838	491.4	491.4	0.0150	0.0150	98.28	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

a - User Assigned ID

Reagents:

61HRPAHICVW_00003

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 20-Jun-2024 02:46:00 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-010
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist:
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
 Limit Group: HR - HRPAAH ICAL
 Last Update: 25-Jun-2024 14:12:41 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1632

First Level Reviewer: TT6I

Date: 25-Jun-2024 14:12:41

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											a
134.0828	11:41	11:33	8	0.673	13477442	4456210	121	302	36828		a
Naphthalene											a
128.0626	11:41	11:34	7	1.000	86402026	29321886	1563	3907	18760		a
13C6-2-Methylnaphthalene											
148.0984	13:55	13:52	2	0.802	6493524	3094767	14	35	221055		
2-Methylnaphthalene											
142.0783	13:55	13:53	2	1.000	40858535	18807631	438	1095	42940		
13C6-Acenaphthylene											
158.0828	16:47	16:45	1	0.967	7297545	2605022	23	57	113262		E
Acenaphthylene											
152.0626	16:47	16:45	1	1.000	51372833	19549495	422	1055	46326		
Acenaphthene-d10											
164.1404	17:21	17:20	1		4303576	1542160	3	7	514053		
13C6-Acenaphthene											
160.0984	17:28	17:27	1	1.007	4208528	1451106	16	40	90694		
Acenaphthene											
154.0783	17:28	17:27	1	1.001	26212060	9398913	324	810	29009		
Fluorene											
166.0783	19:45	19:45	1	1.001	21363714	6510687	261	652	24945		
13C6-Fluorene											
172.0984	19:45	19:45	0	1.138	3408512	1026745	9	22	114083		
13C6-Phenanthrene											
184.0984	25:08	25:08	0	0.709	5503772	1348647	27	67	49950		E
Phenanthrene											
178.0783	25:08	25:08	0	1.000	30546294	7653415	286	715	26760		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Anthracene											
184.0984	25:28	25:28	0	0.719	4329635	1030424	27	67	38164		E
Anthracene											
178.0783	25:29	25:28	0	1.000	28688367	6777672	286	715	23698		
13C6-Fluoranthrene											
208.0984	33:53	33:54	-1	0.956	11635330	2307627	229	572	10077		E
Fluoranthene											
202.0783	33:54	33:54	0	1.000	68280213	14184641	254	635	55845		
Pyrene-d10											
212.1404	35:26	35:27	-1		8826302	1683039	63	157	26715		
13C3-Pyrene											
205.0883	35:34	35:35	-1	1.004	12863803	2422989	136	340	17816		E
Pyrene											
202.0783	35:35	35:35	0	1.000	71732321	14442359	254	635	56860		
13C6-Benzo(a)anthracene											
234.1140	46:07	46:07	-1	1.301	11144764	1990149	164	410	12135		E
Benzo[a]anthracene											
228.0939	46:08	46:07	0	1.000	54276958	10164420	358	895	28392		
13C6-Chrysene											
234.1140	46:24	46:24	0	1.309	11912007	2004525	164	410	12223		E
Chrysene											
228.0939	46:24	46:25	-1	1.000	60434818	10772676	358	895	30091		
13C6-Benzo(b)fluoranthene											
258.1140	54:40	54:40	0	0.985	10876736	2927555	16	40	182972		E
Benzo[b]fluoranthene											
252.0939	54:40	54:40	0	1.000	63447136	18656368	103	257	181130		
13C6-Benzo(k)fluoranthene											
258.1140	54:47	54:47	0	0.987	13027765	3458659	16	40	216166		E
Benzo[k]fluoranthene											
252.0939	54:47	54:47	0	1.000	74650027	20444016	103	257	198486		
Benzo(e)pyrene-d12											
264.1692	55:31	55:30	0		6729891	2273085	128	320	17758		
Benzo[e]pyrene											
252.0939	55:36	55:35	0	1.000	77451657	27919087	103	257	271059		
13C4-Benzo(e)pyrene											
256.1073	55:36	55:35	0	1.002	12371926	4265039	135	337	31593		E
Benzo[a]pyrene											
252.0939	55:44	55:44	0	1.000	68663102	23912192	103	257	232157		
13C4-Benzo(a)pyrene											
256.1073	55:44	55:44	0	1.004	11367582	3859166	135	337	28586		E
Perylene-d12											
264.1692	55:54	55:54	0	1.007	8303002	2935404	128	320	22933		E
Perylene											
252.0939	55:58	55:58	0	1.001	67252708	23209487	103	257	225335		E
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:02	58:02	0	1.046	7856573	2415385	95	237	25425		E

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Indeno[1,2,3-cd]pyrene											
276.0939	58:03	58:03	0	1.000	42975857	14664868	208	520	70504		
13C6-Dibenz(a,h)anthracene											
284.1296	58:07	58:07	0	1.047	9084543	2430000	50	125	48600		E
Dibenz(a,h)anthracene											
278.1096	58:07	58:07	0	1.000	50916184	14059570	105	262	133901		
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	10075910	2706985	24	60	112791		E
Benzo[g,h,i]perylene											
276.0939	58:32	58:31	0	1.000	63565210	19420580	208	520	93368		

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

a - User Assigned ID

Reagents:

61HRPAHICVW_00003

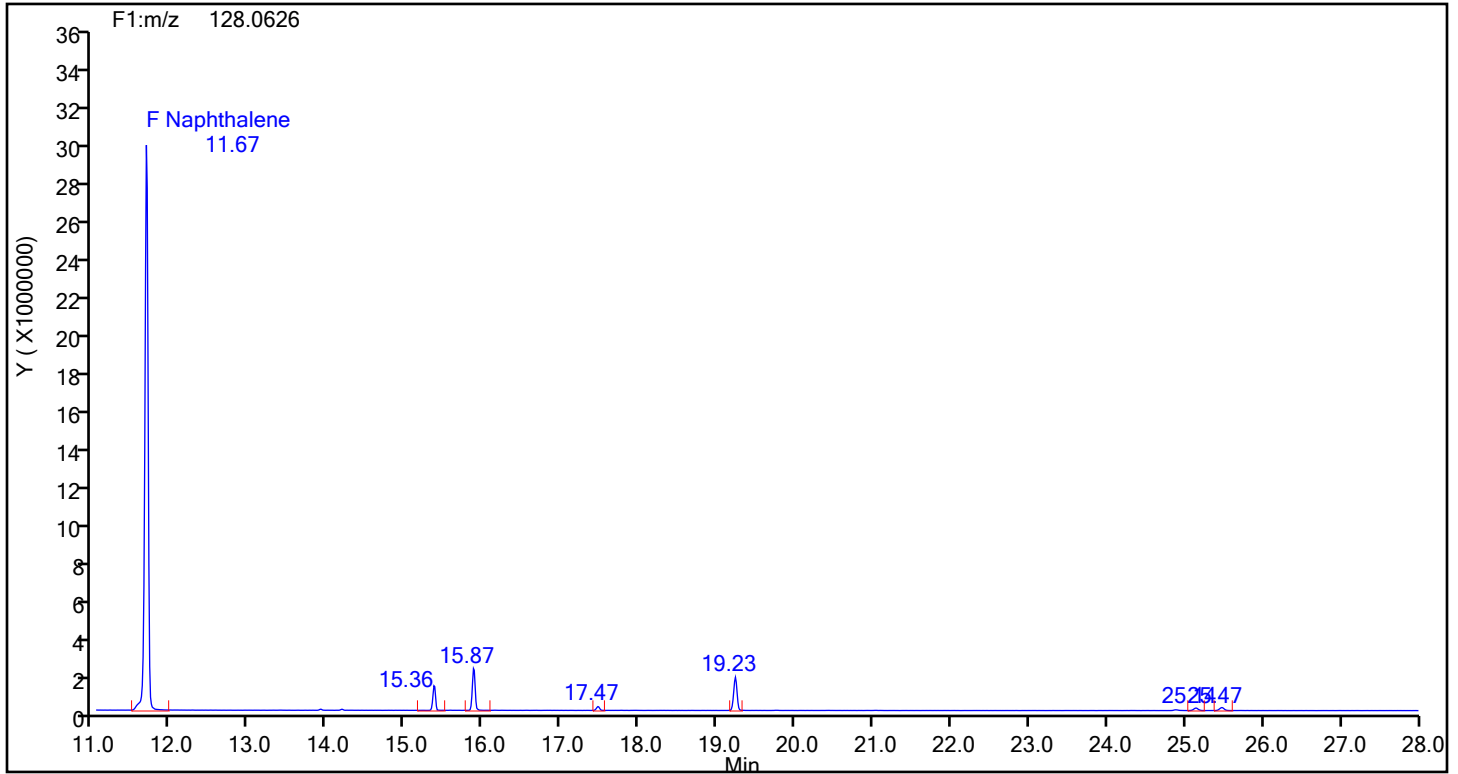
Amount Added: 20.00

Units: uL

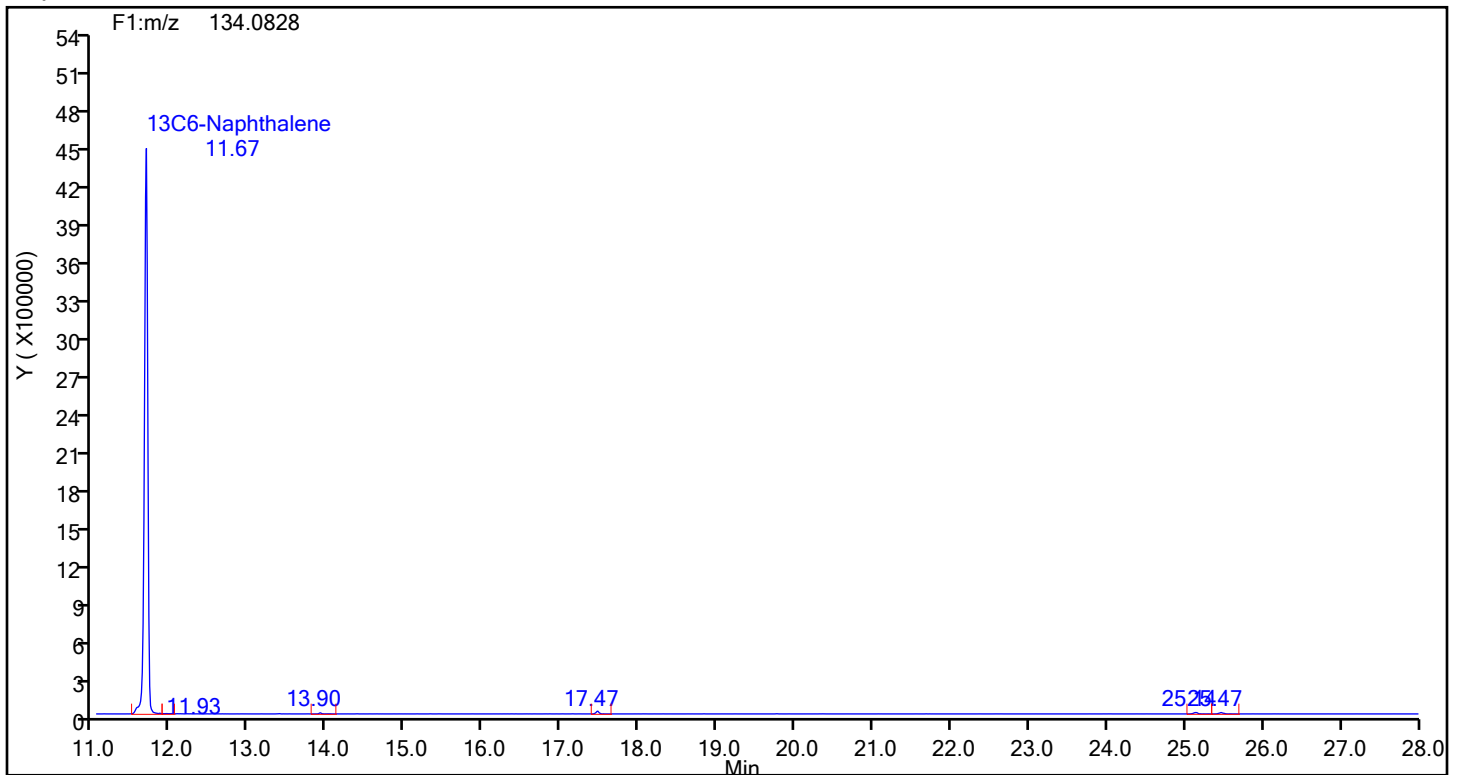
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

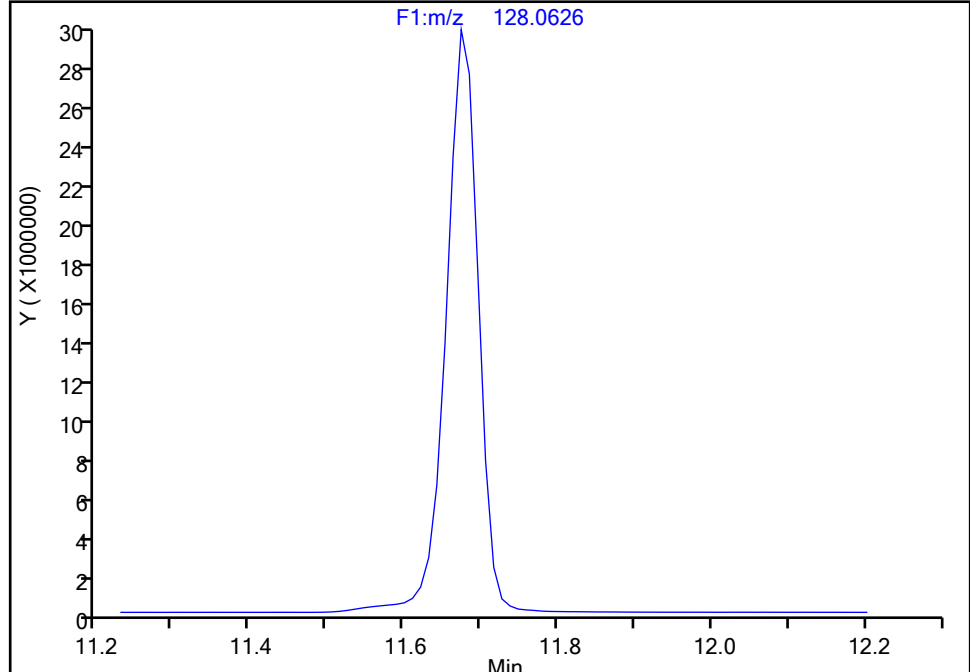
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Injection Date: 20-Jun-2024 02:46:00 Instrument ID: D3PAH
Lims ID: ICV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Naphthalene, CAS: 91-20-3

Signal: 1

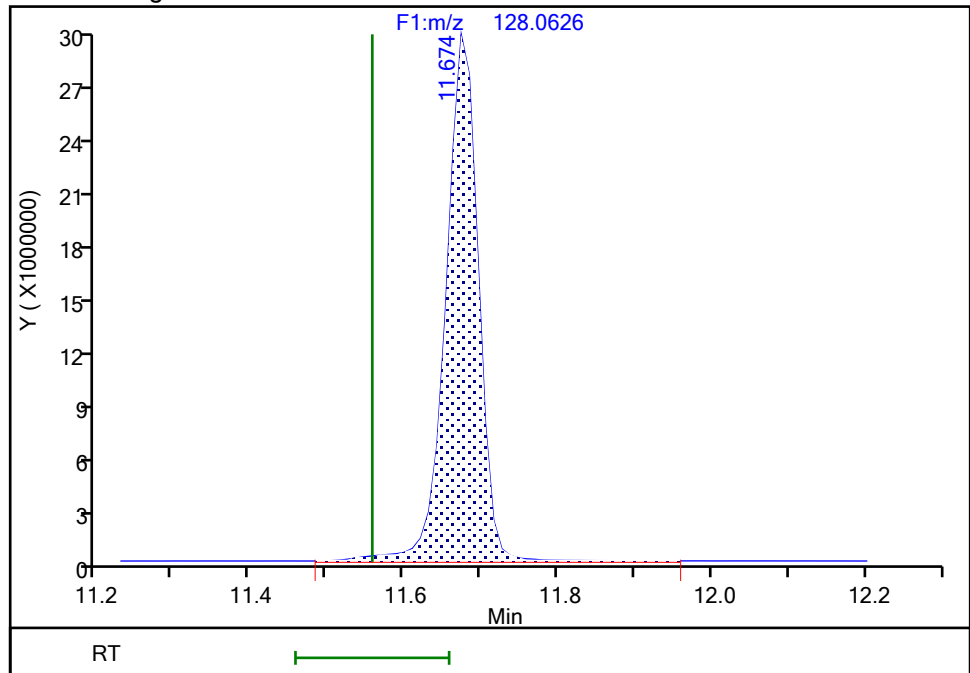
Not Detected
Expected RT: 11.56

Processing Integration Results



RT: 11.67
Area: 86402026
Amount: 497.2514
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:48:43 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

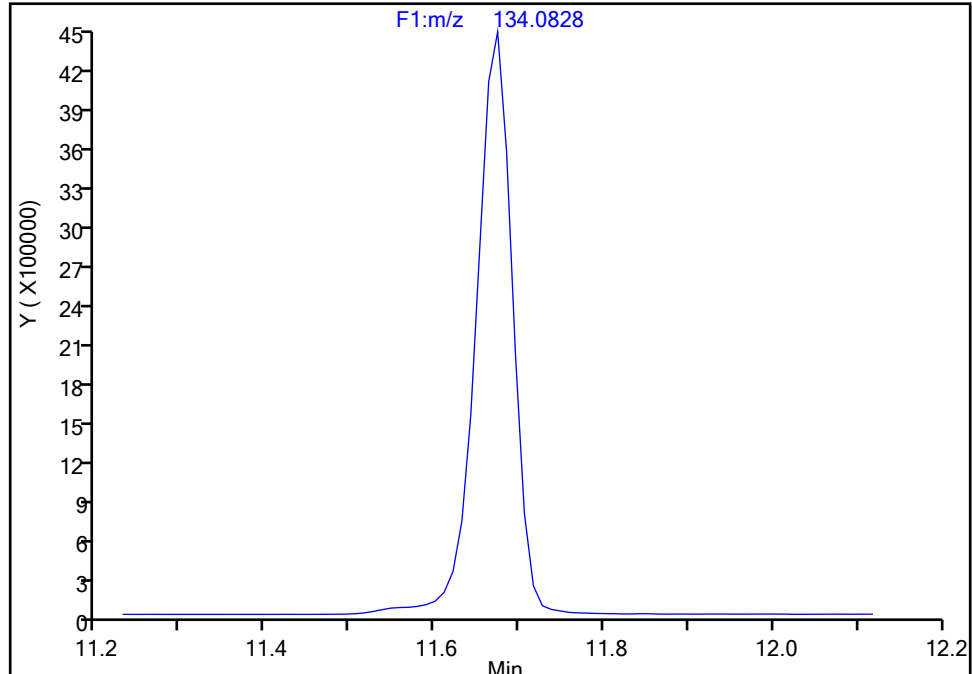
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Lims ID: ICV
Client ID:
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Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
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13C6-Naphthalene, CAS: STL02217

Signal: 1

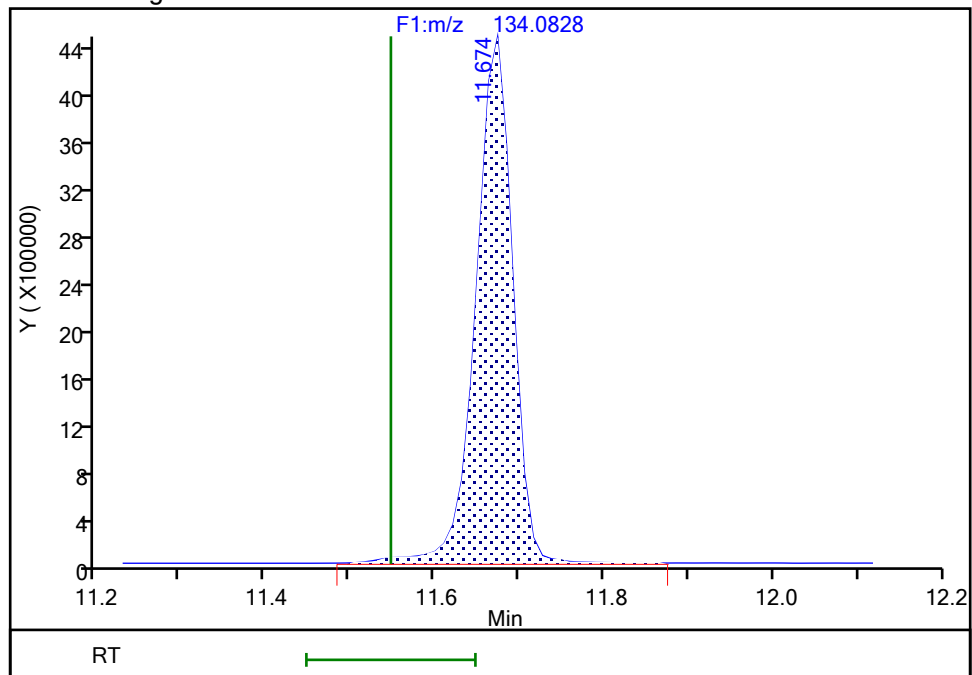
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Expected RT: 11.55

Processing Integration Results



RT: 11.67
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Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:48:39 -04:00:00 (UTC)

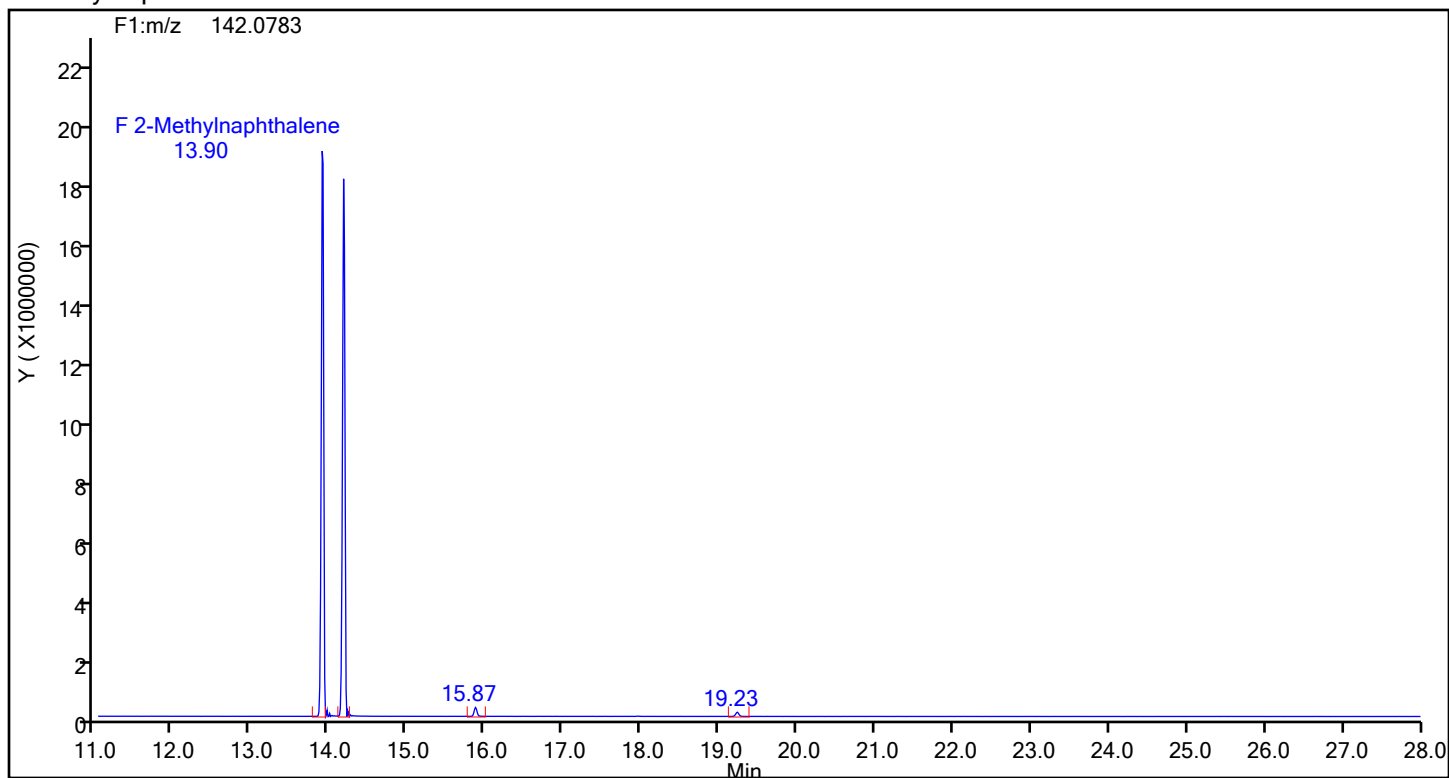
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Audit Reason: Incomplete Integration

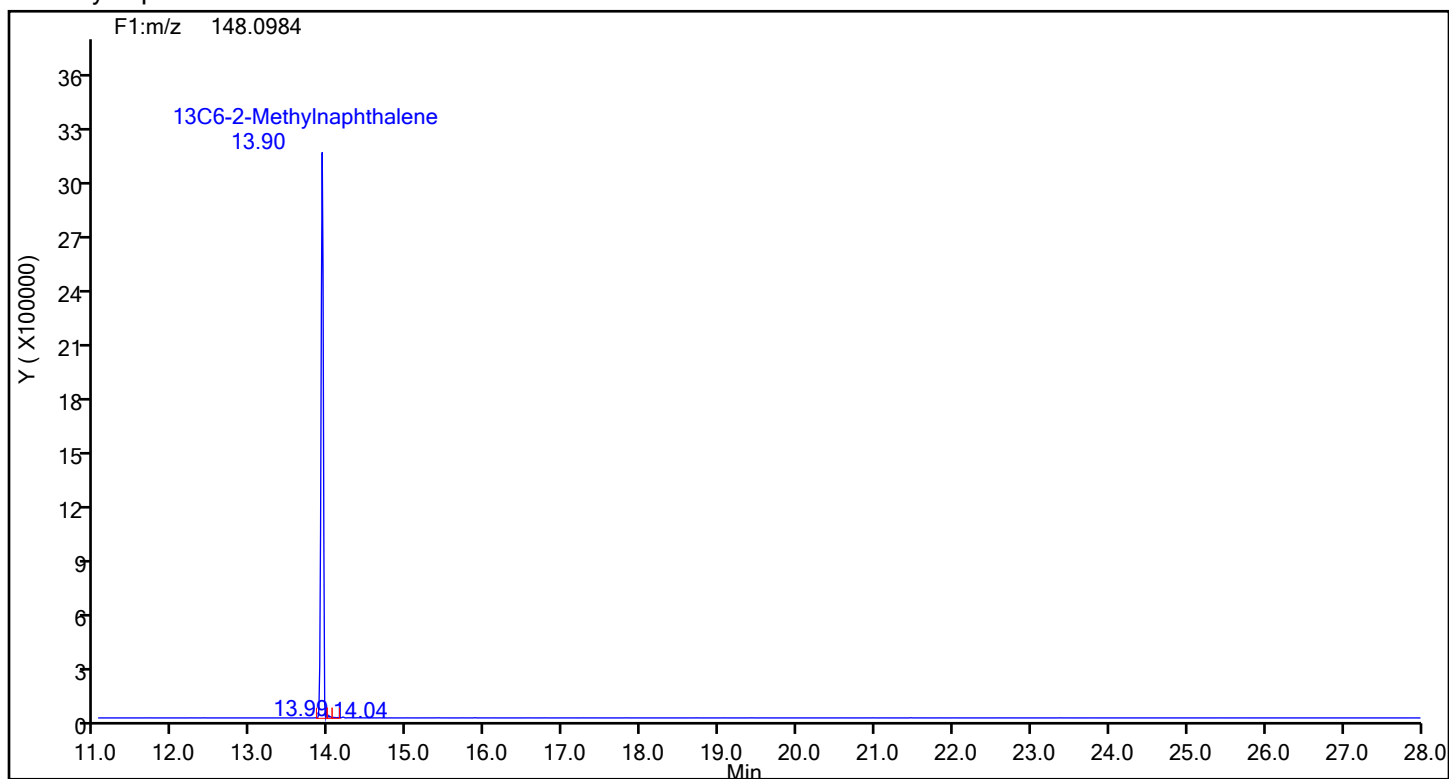
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



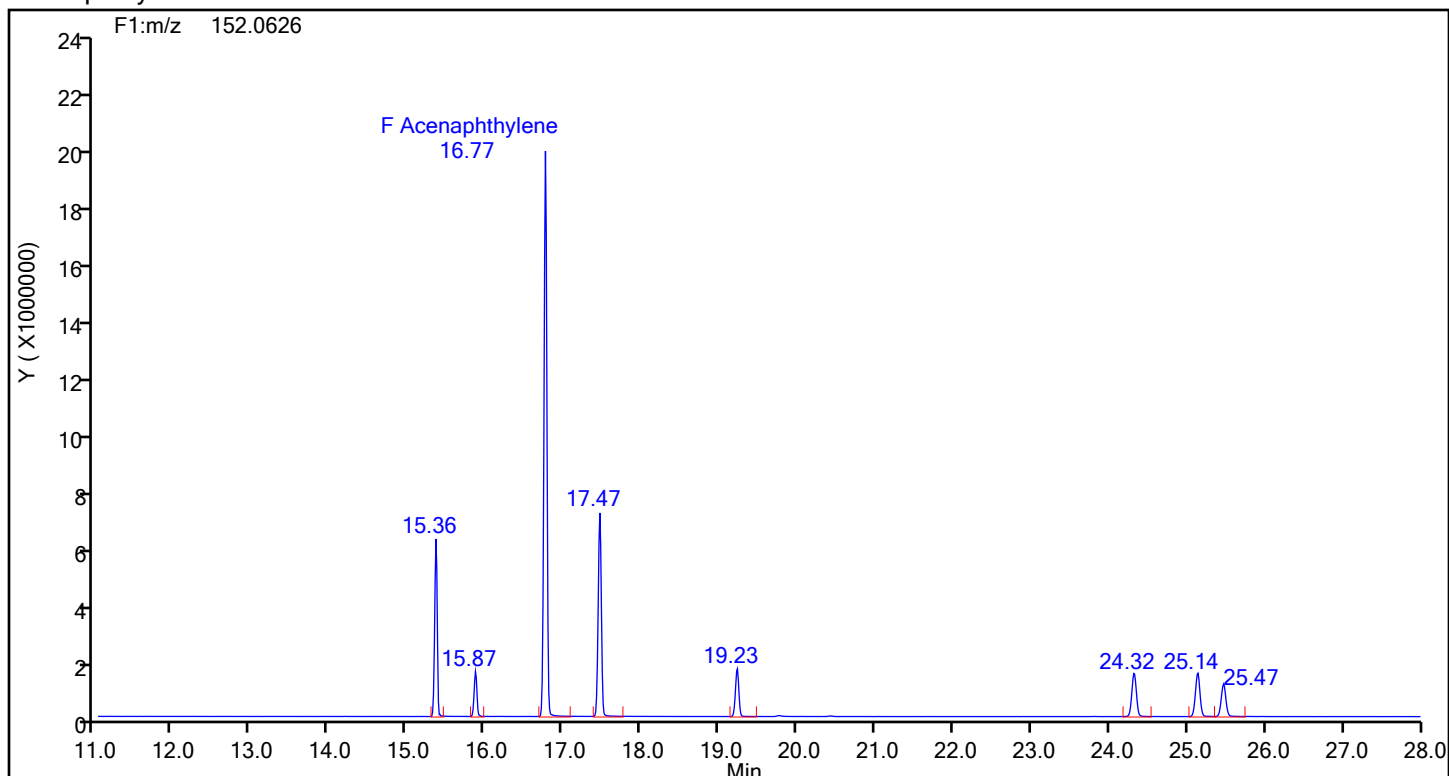
2-Methylnaphthalene Standards



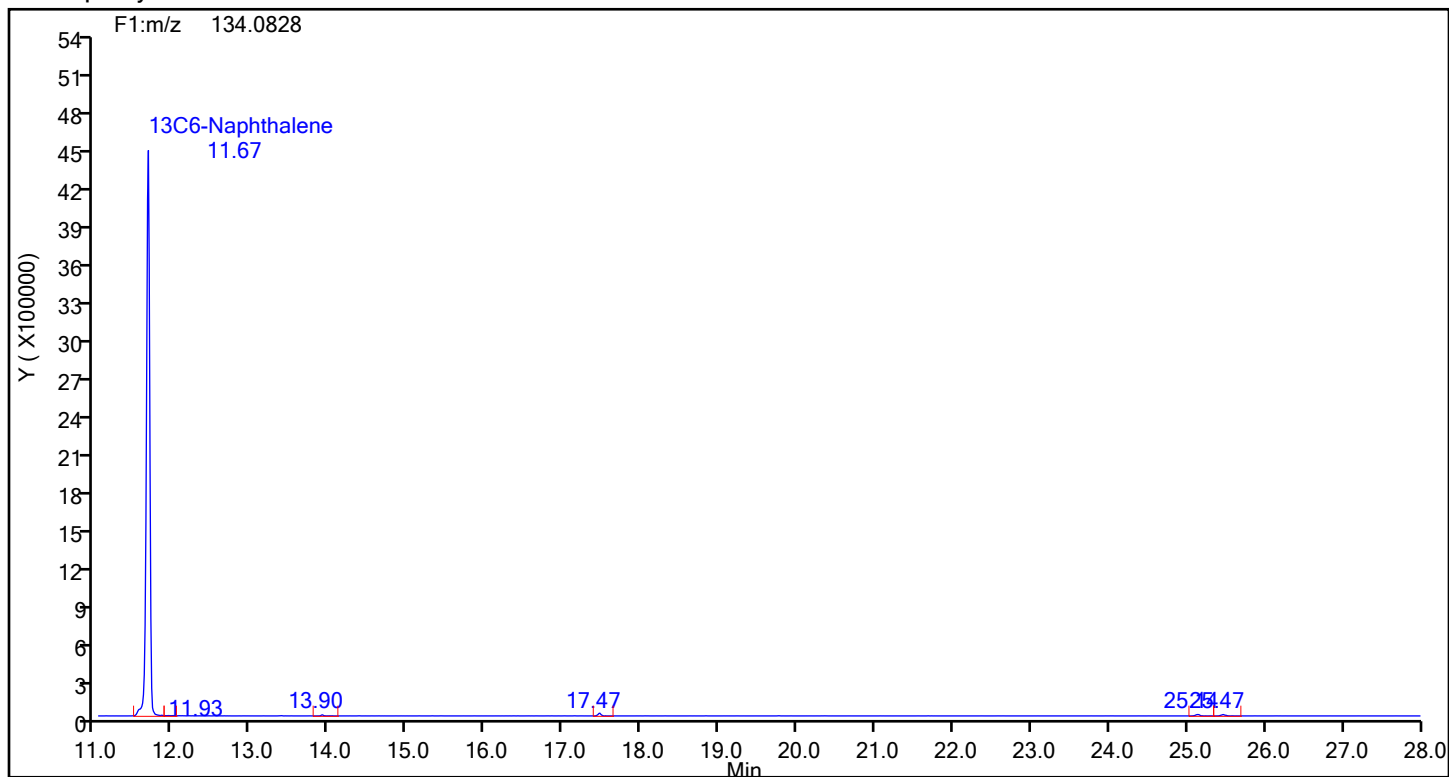
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

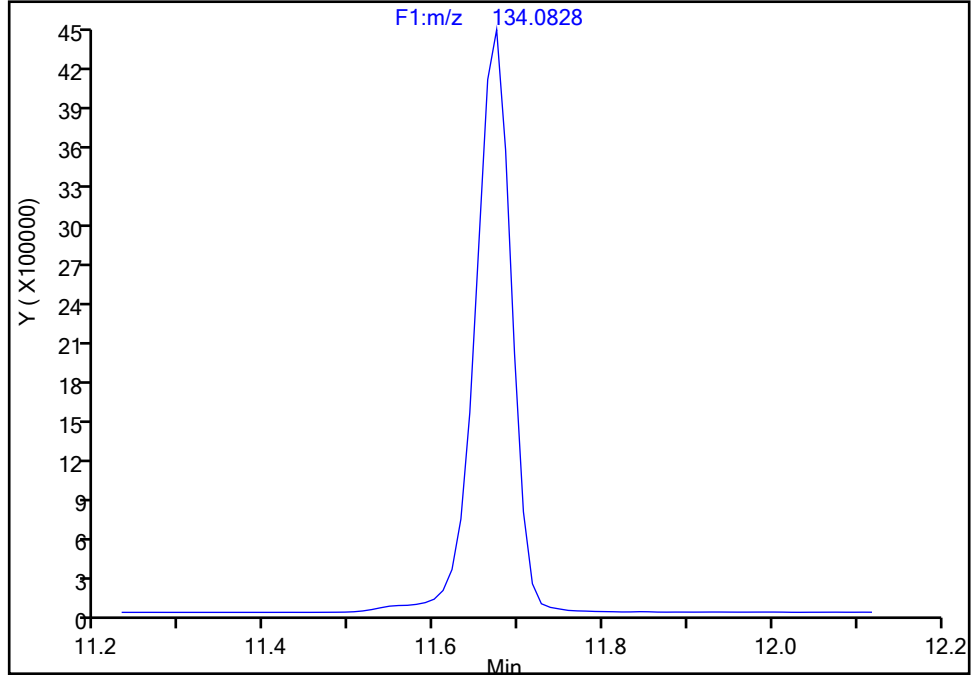
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Lims ID: ICV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

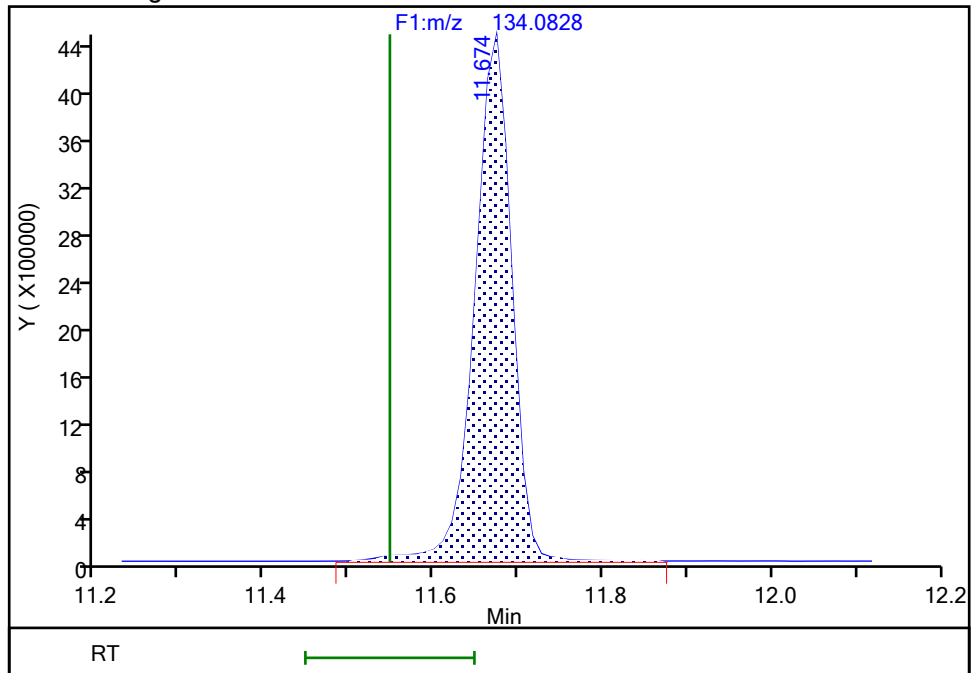
Not Detected
Expected RT: 11.55

Processing Integration Results



RT: 11.67
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Amount: 92.802548
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:48:39 -04:00:00 (UTC)

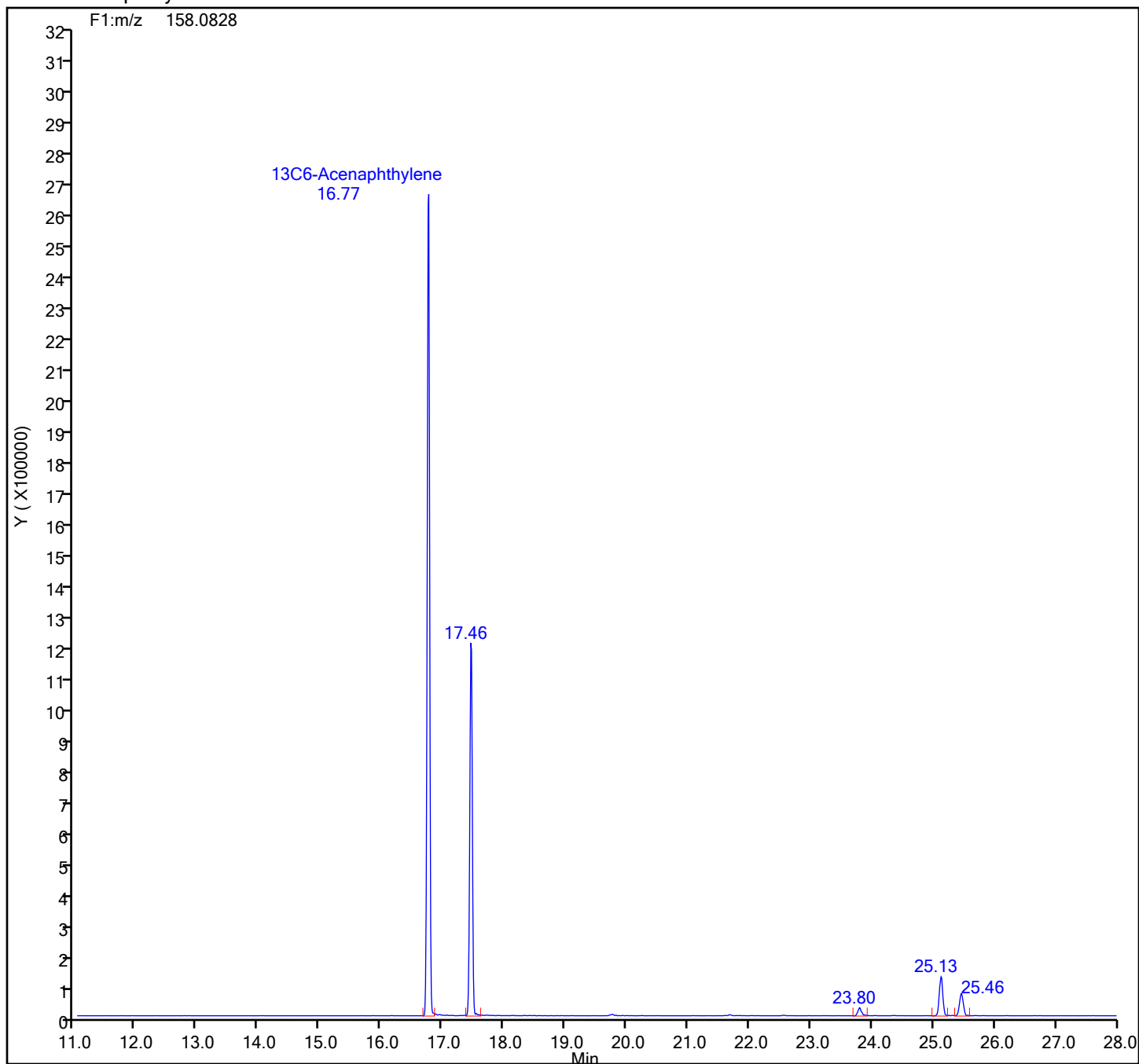
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

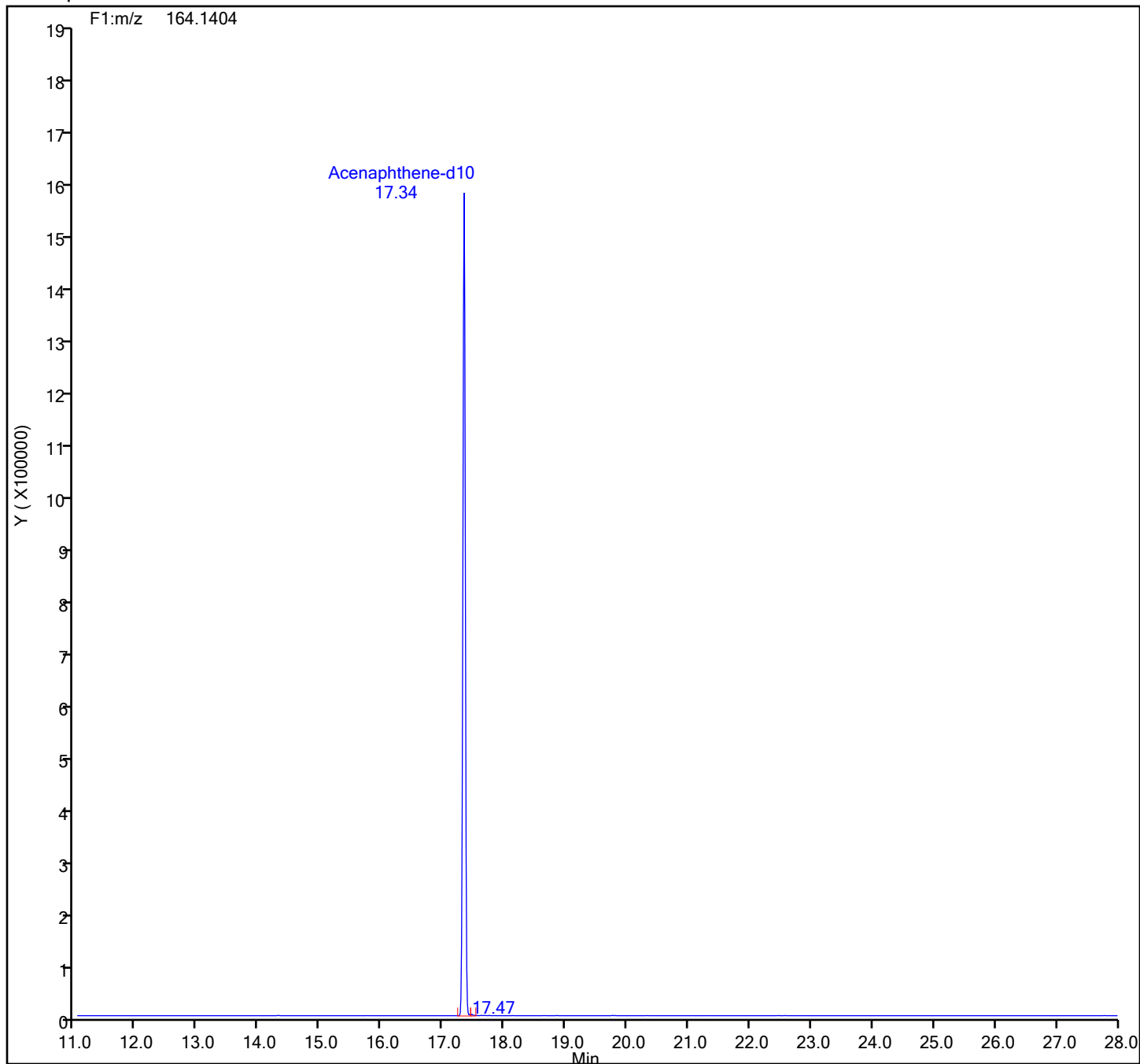
13C6-Acenaphthylene Standards



Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

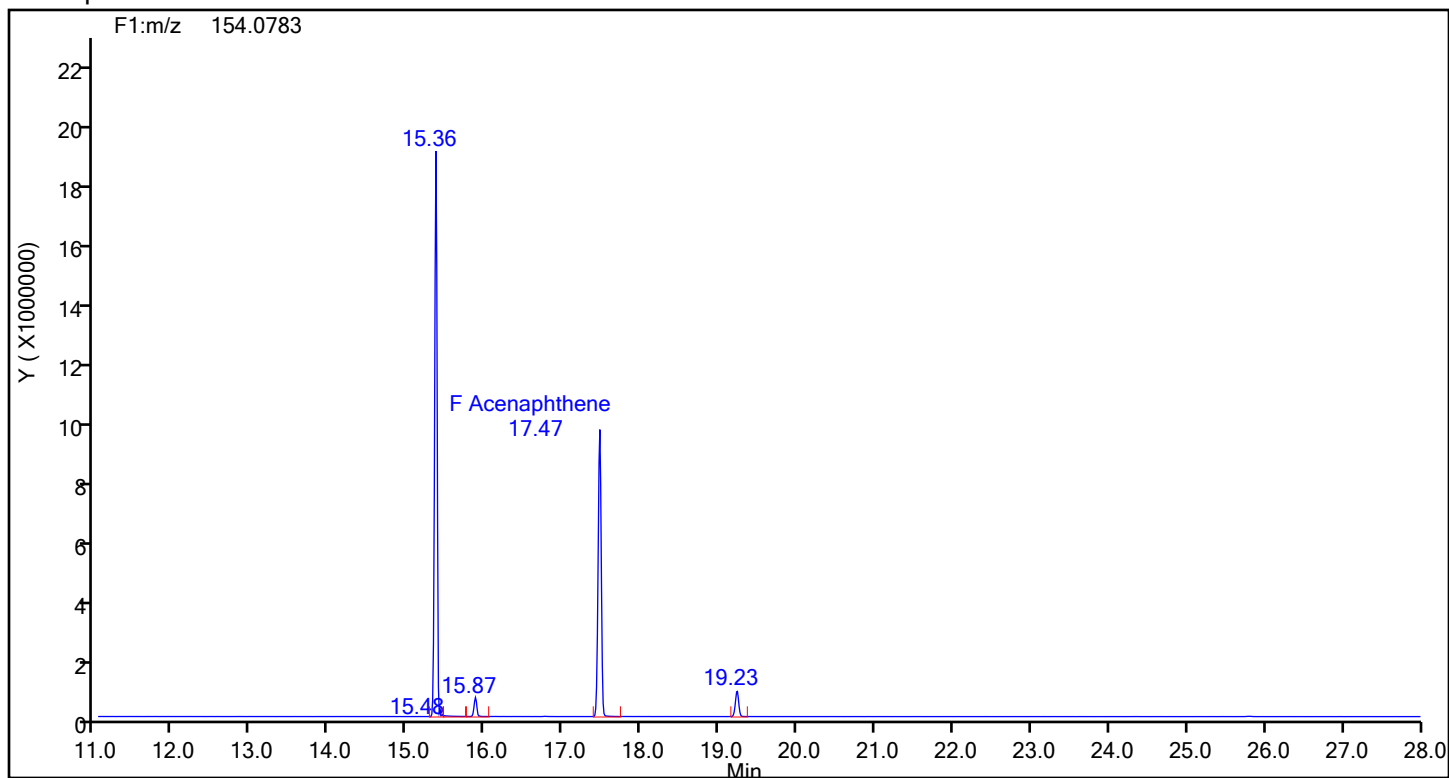
Acenaphthene-d10 Standards



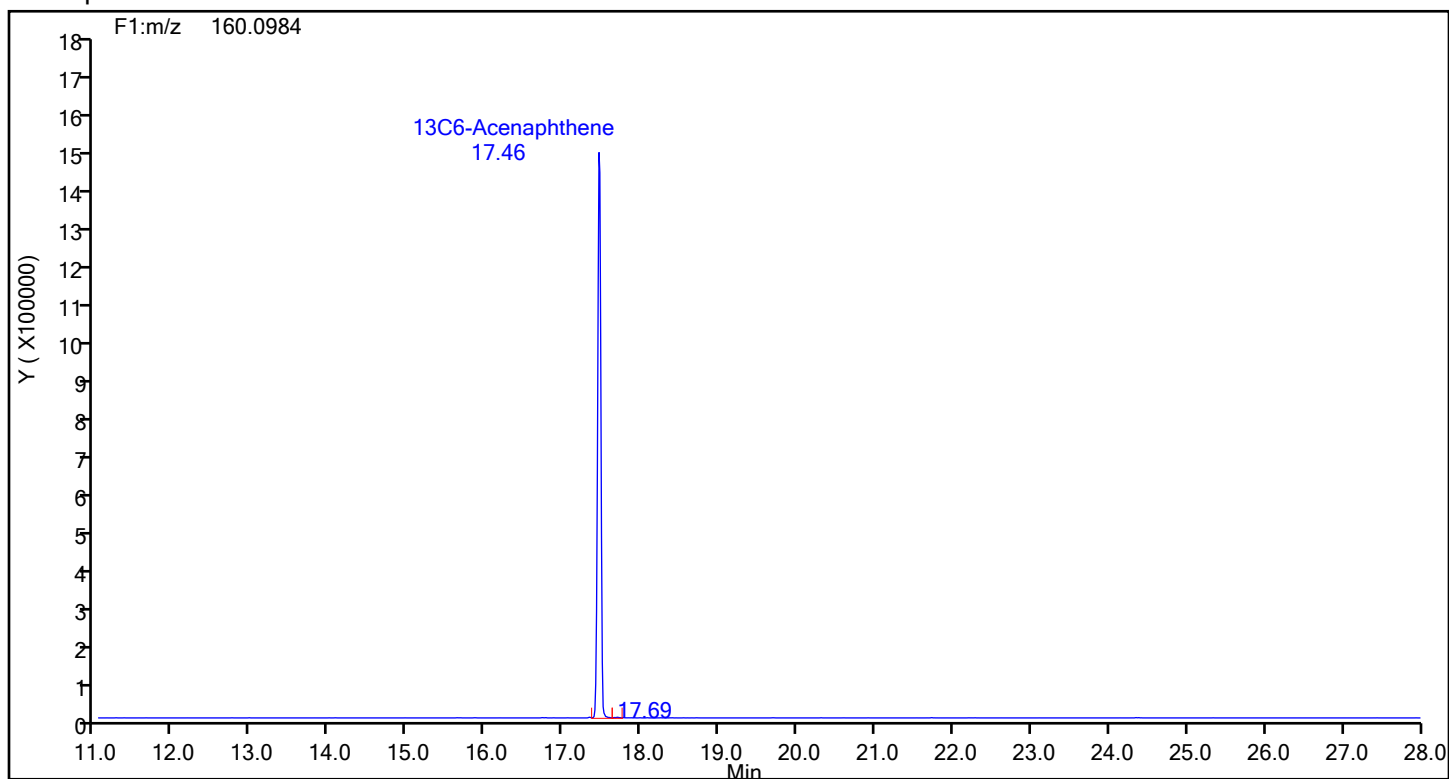
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



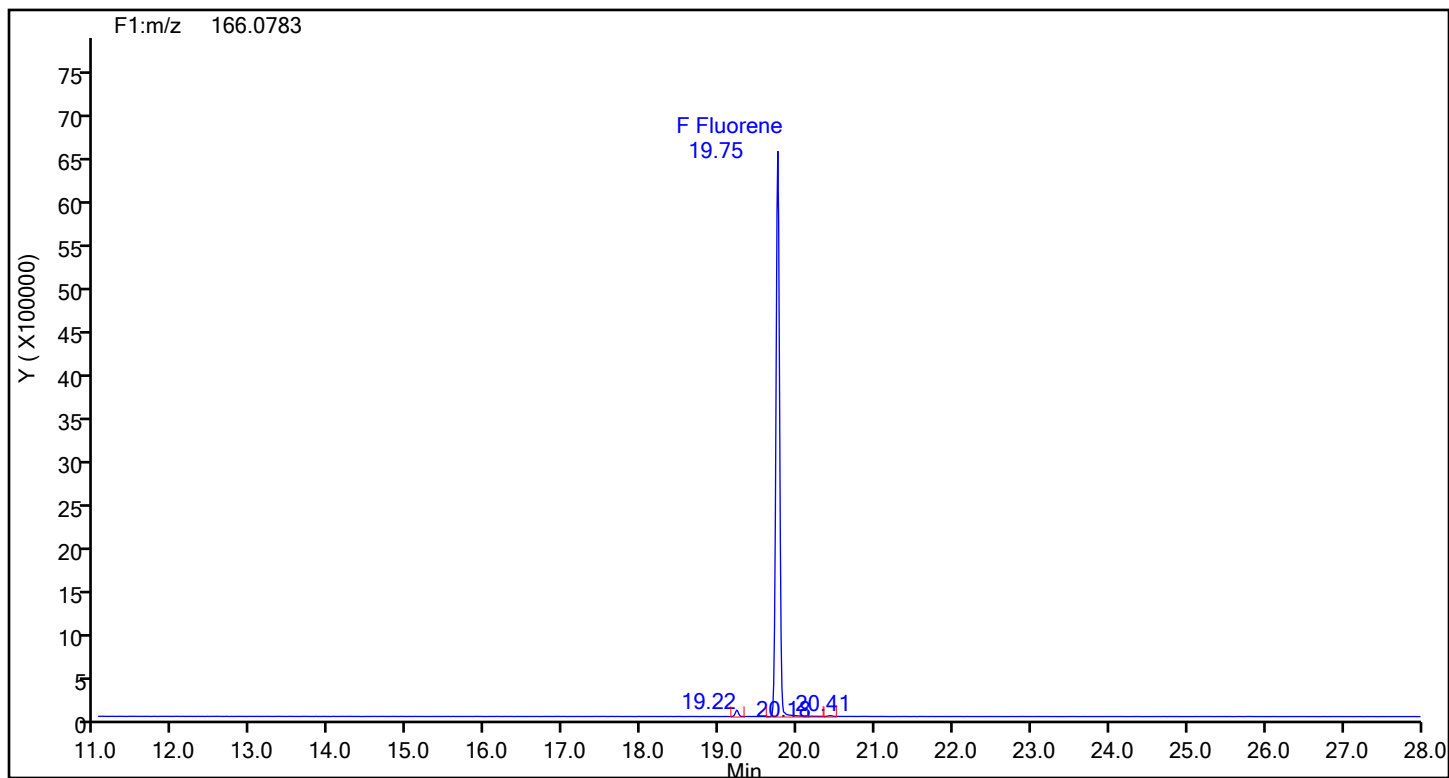
Acenaphthene Standards



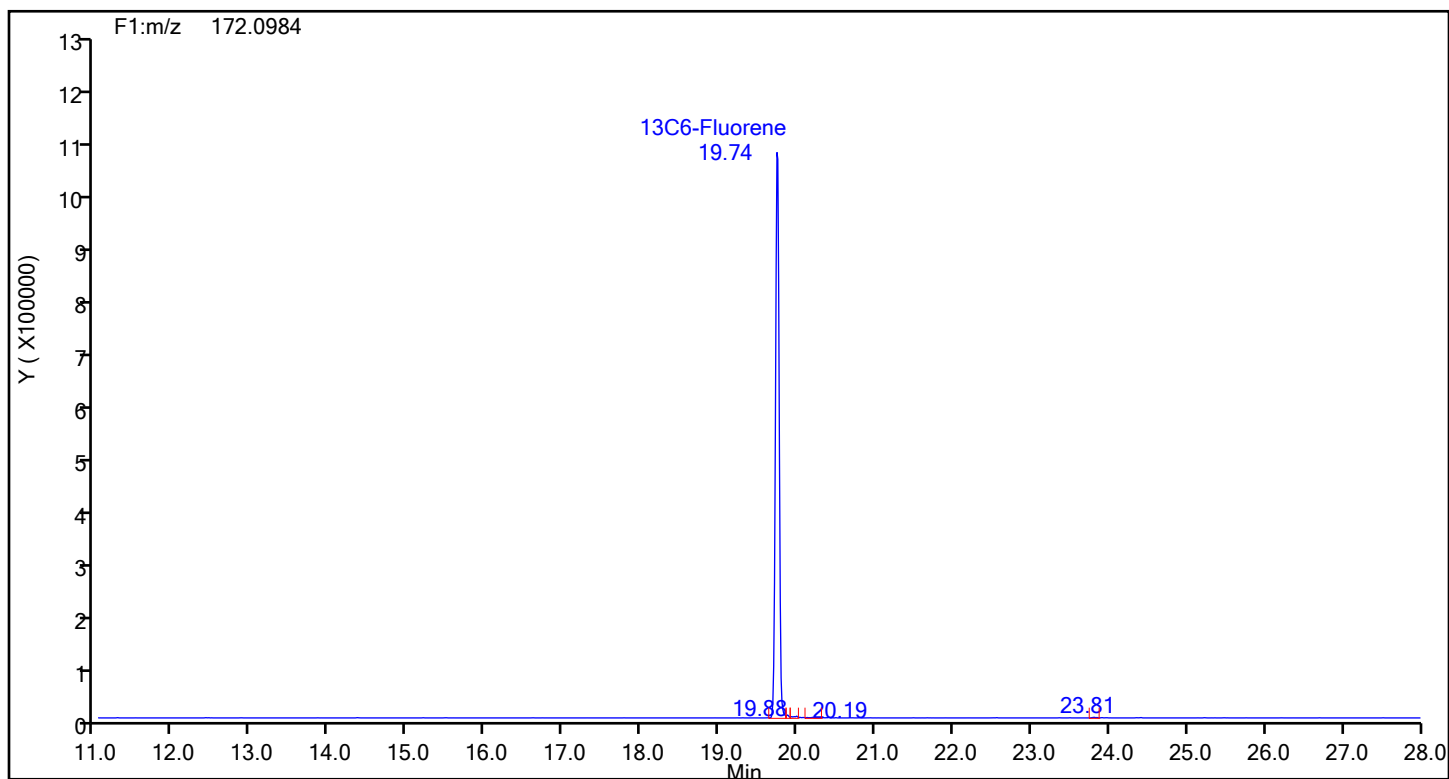
Eurofins Knoxville

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Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

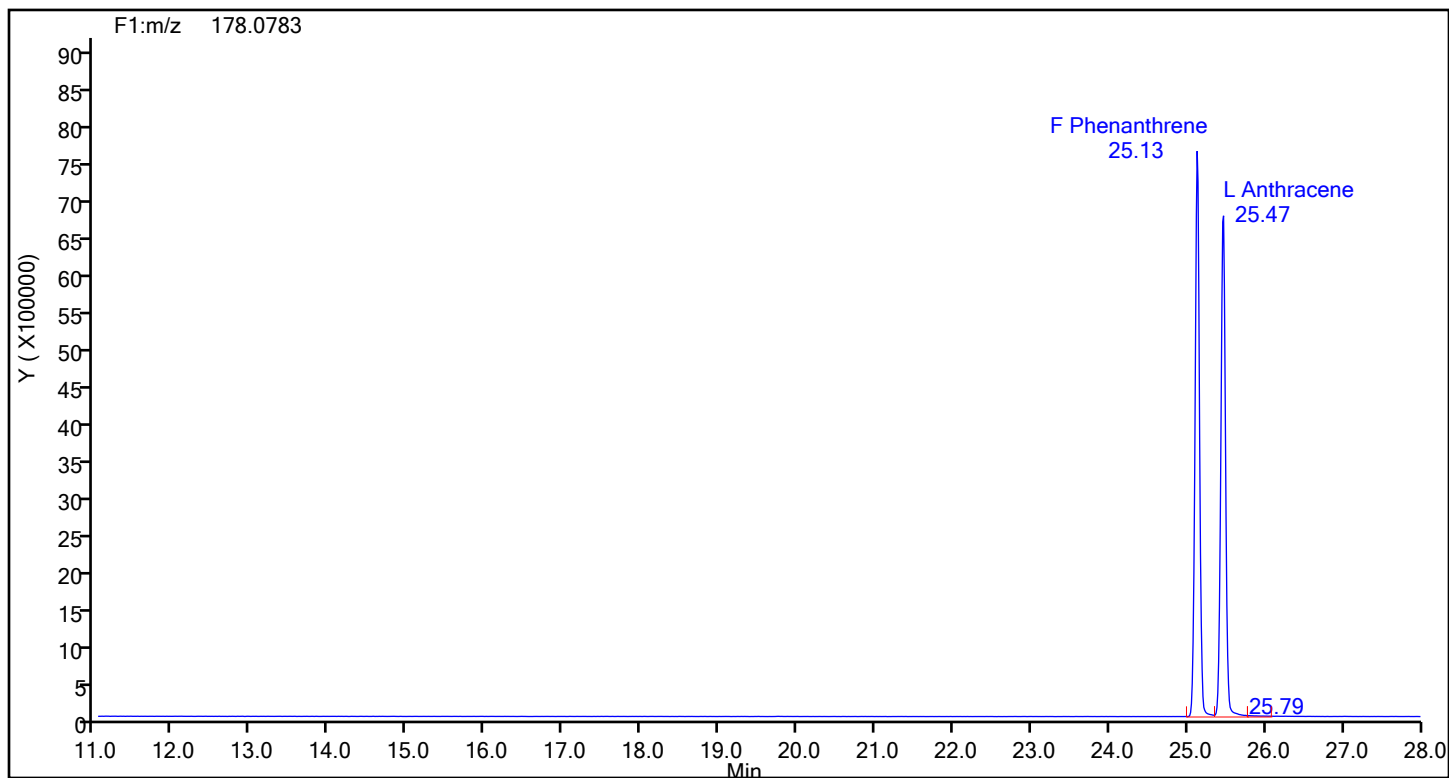


Fluorene Standards

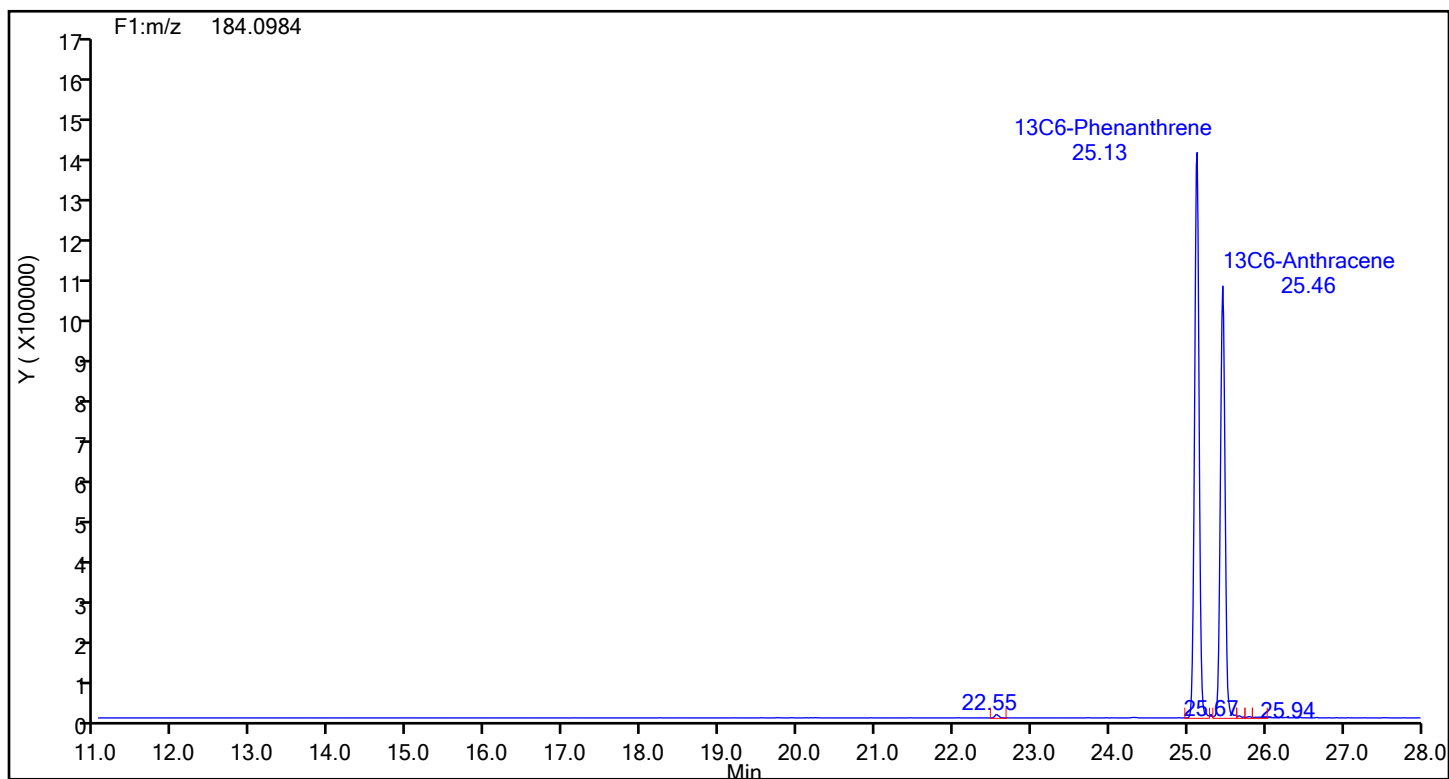


Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene

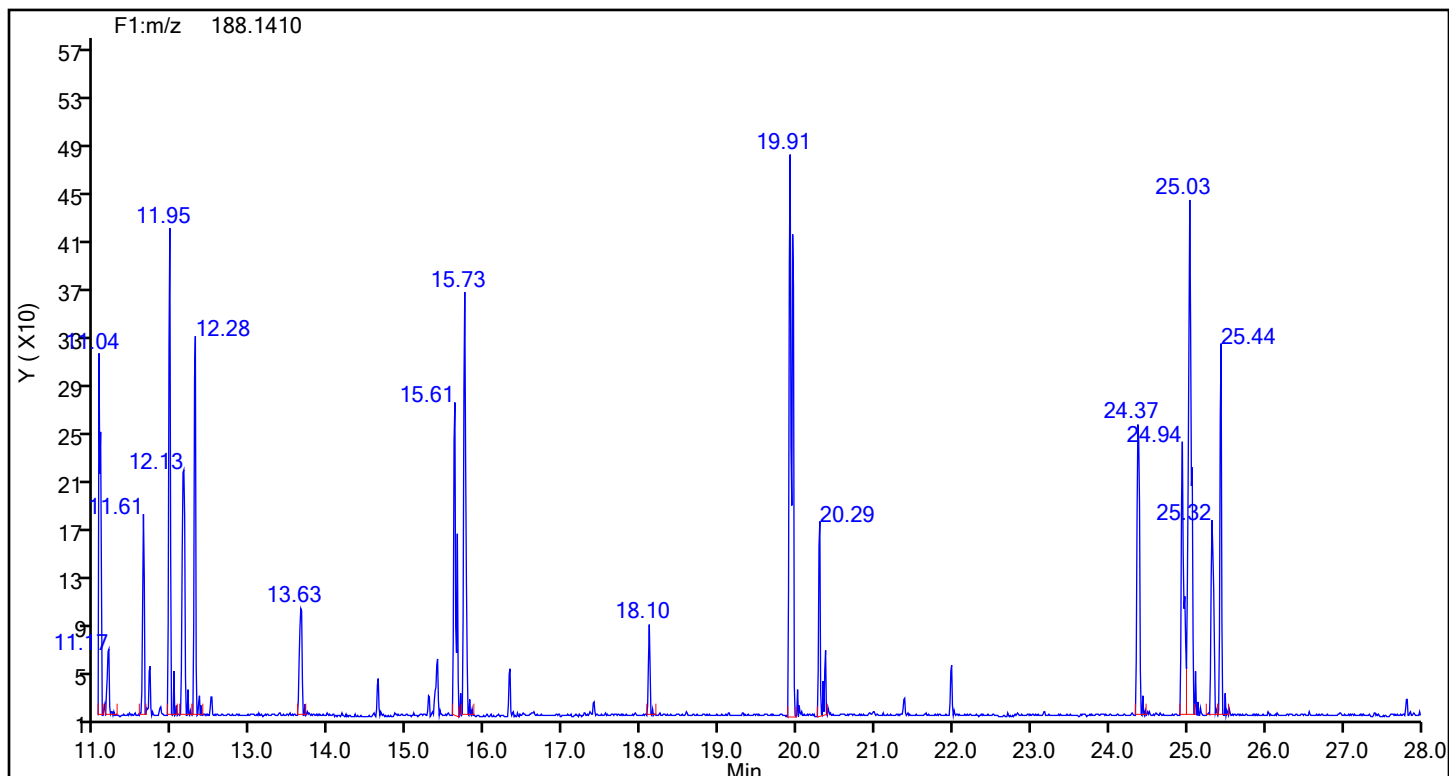


Phenanthrene Standards

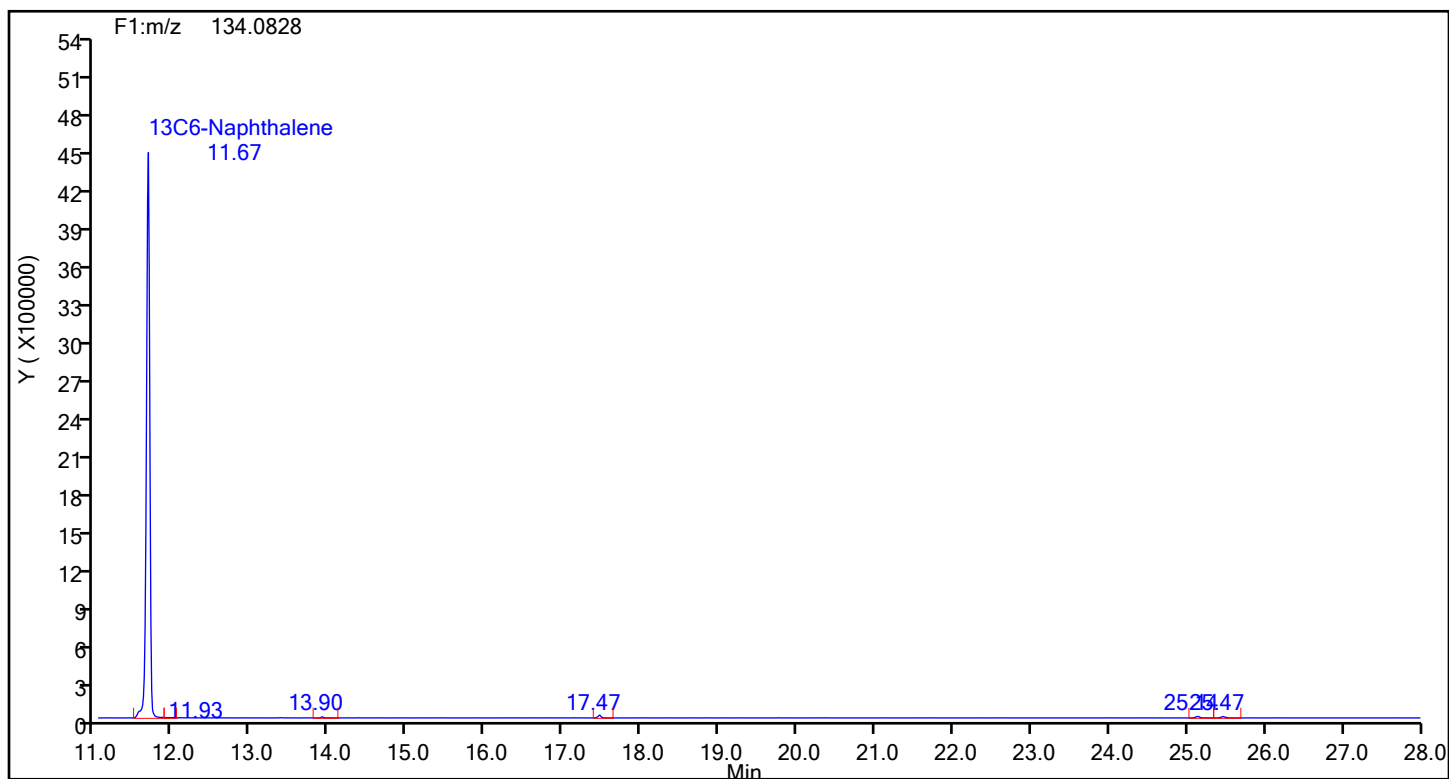


Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



Anthracin-d10 Standards



Eurofins Knoxville

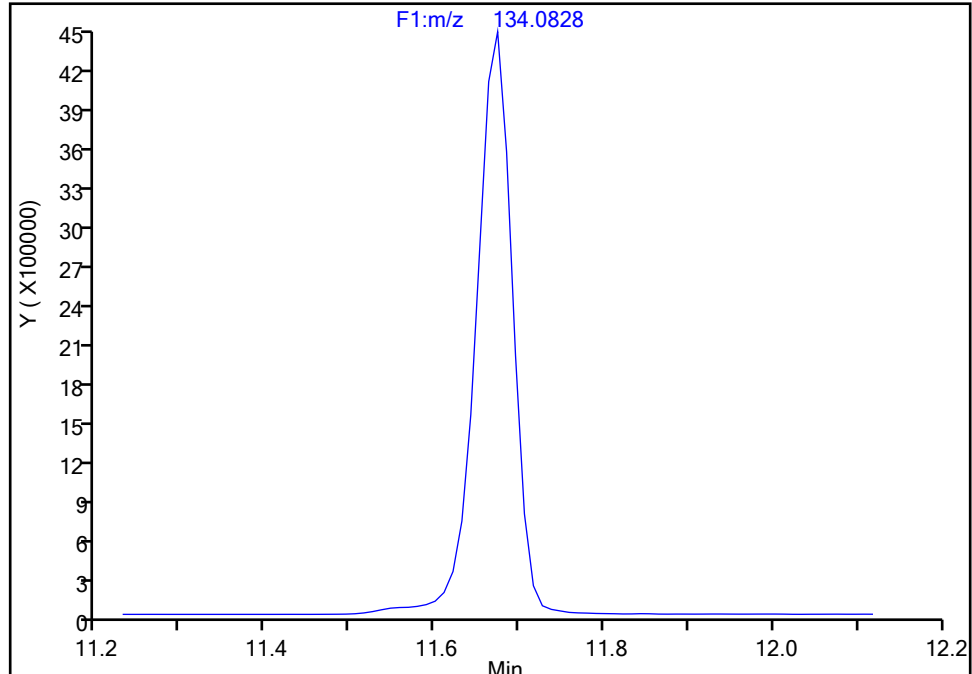
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Lims ID: ICV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

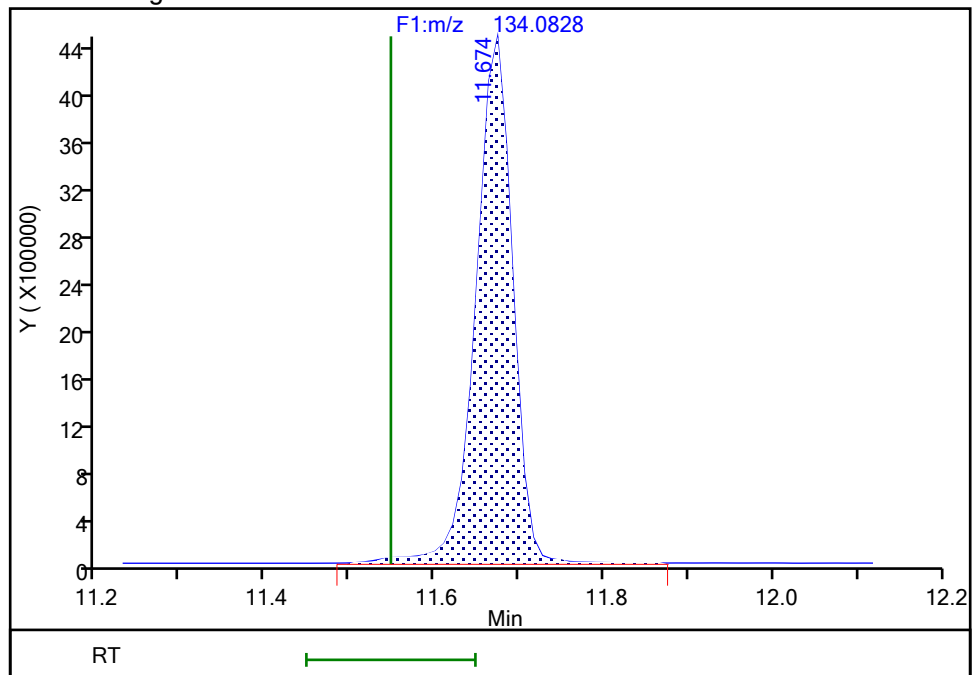
Not Detected
Expected RT: 11.55

Processing Integration Results



RT: 11.67
Area: 13477442
Amount: 92.802548
Amount Units: pg/ul

Manual Integration Results



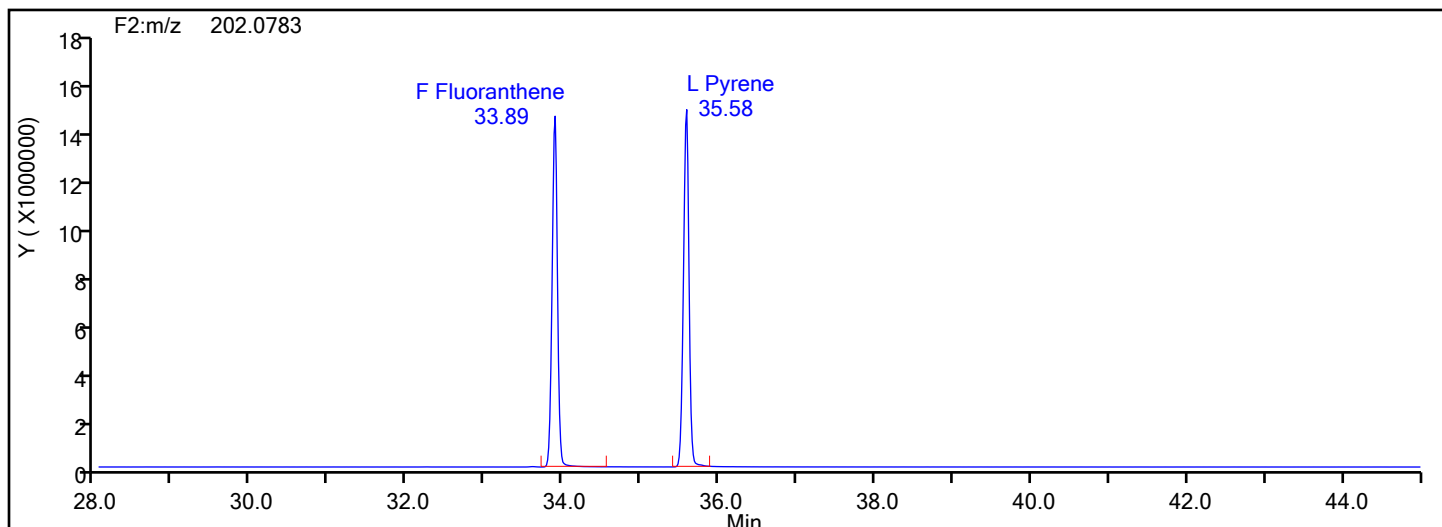
Reviewer: F9EE, 20-Jun-2024 09:48:39 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

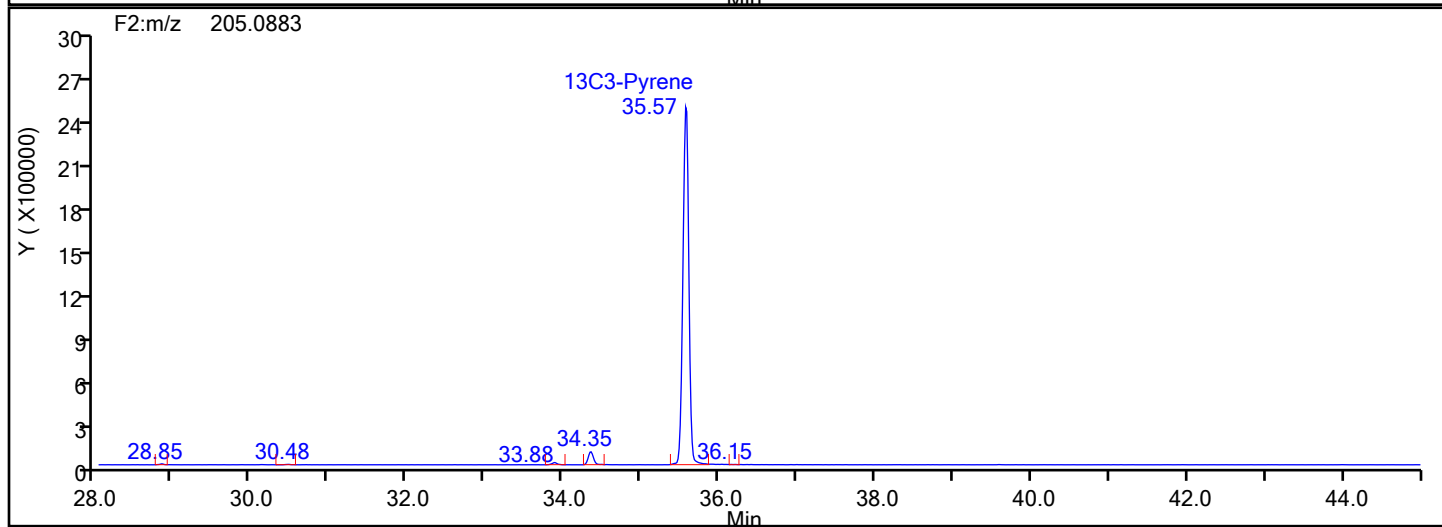
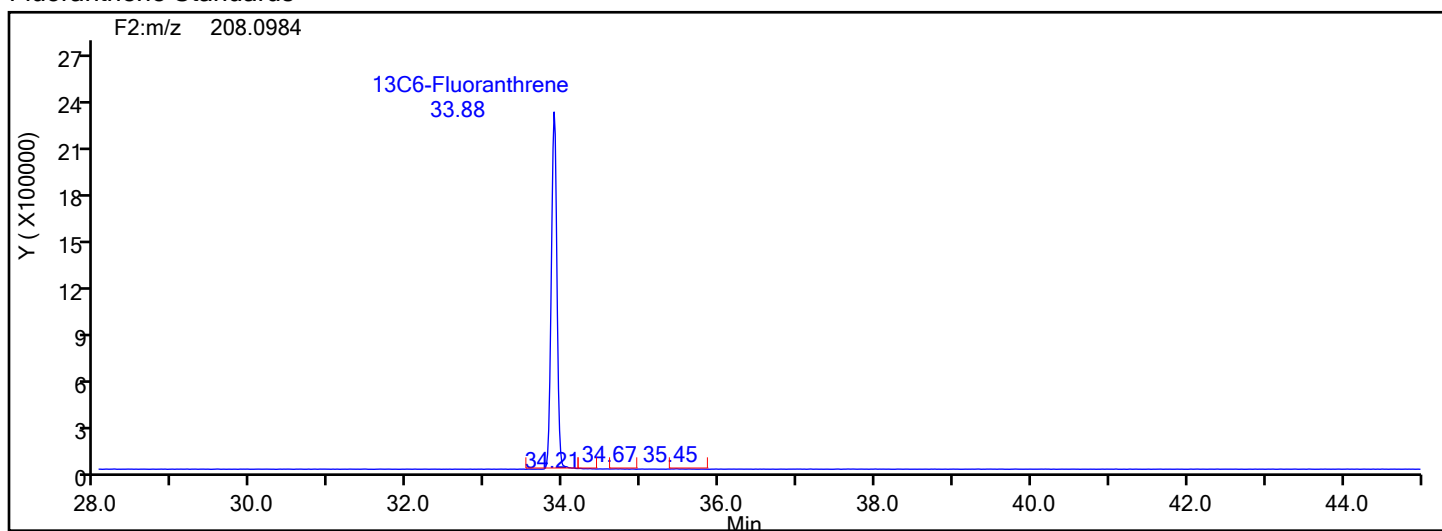
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



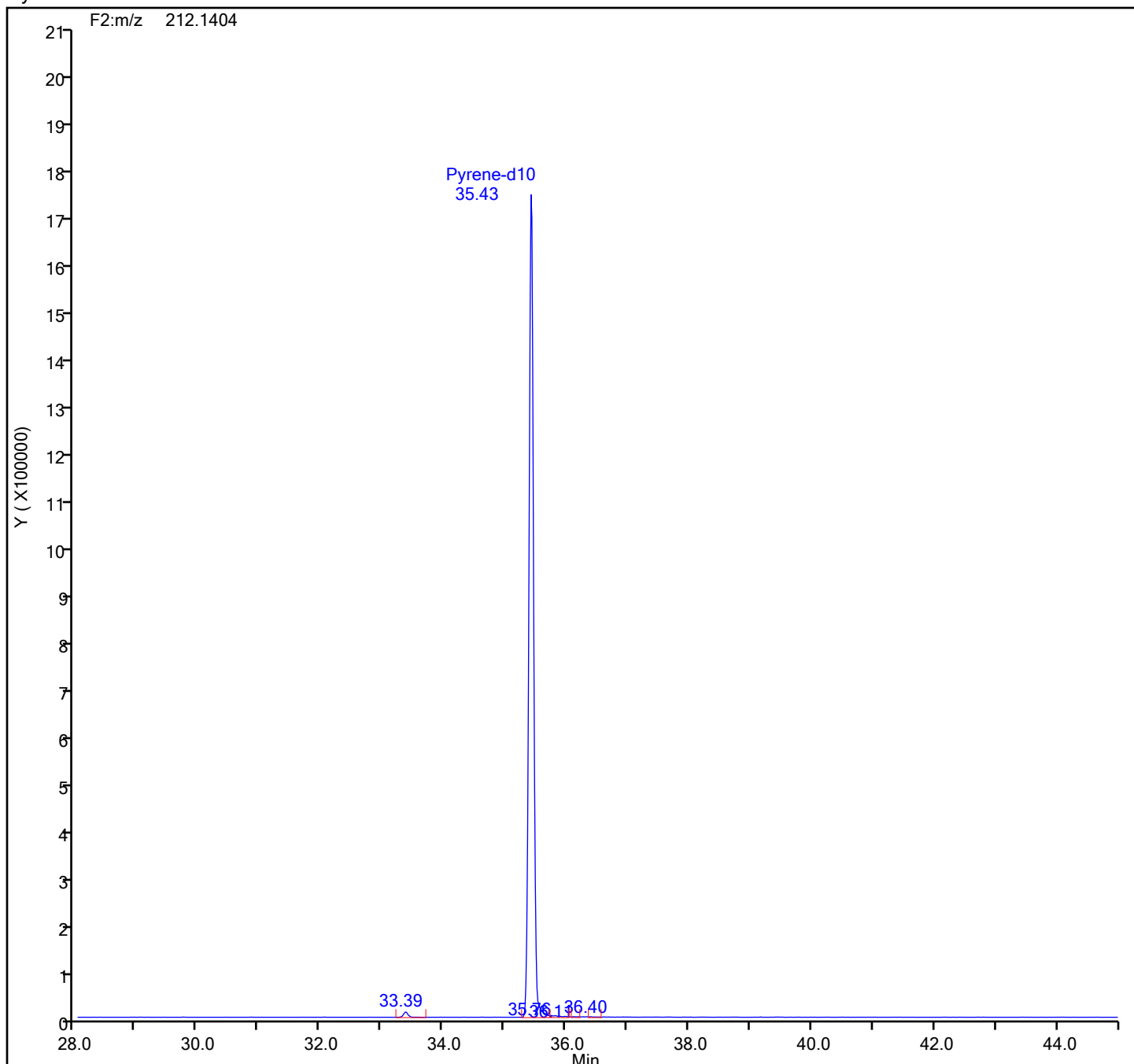
Fluoranthene Standards



Eurofins Knoxville

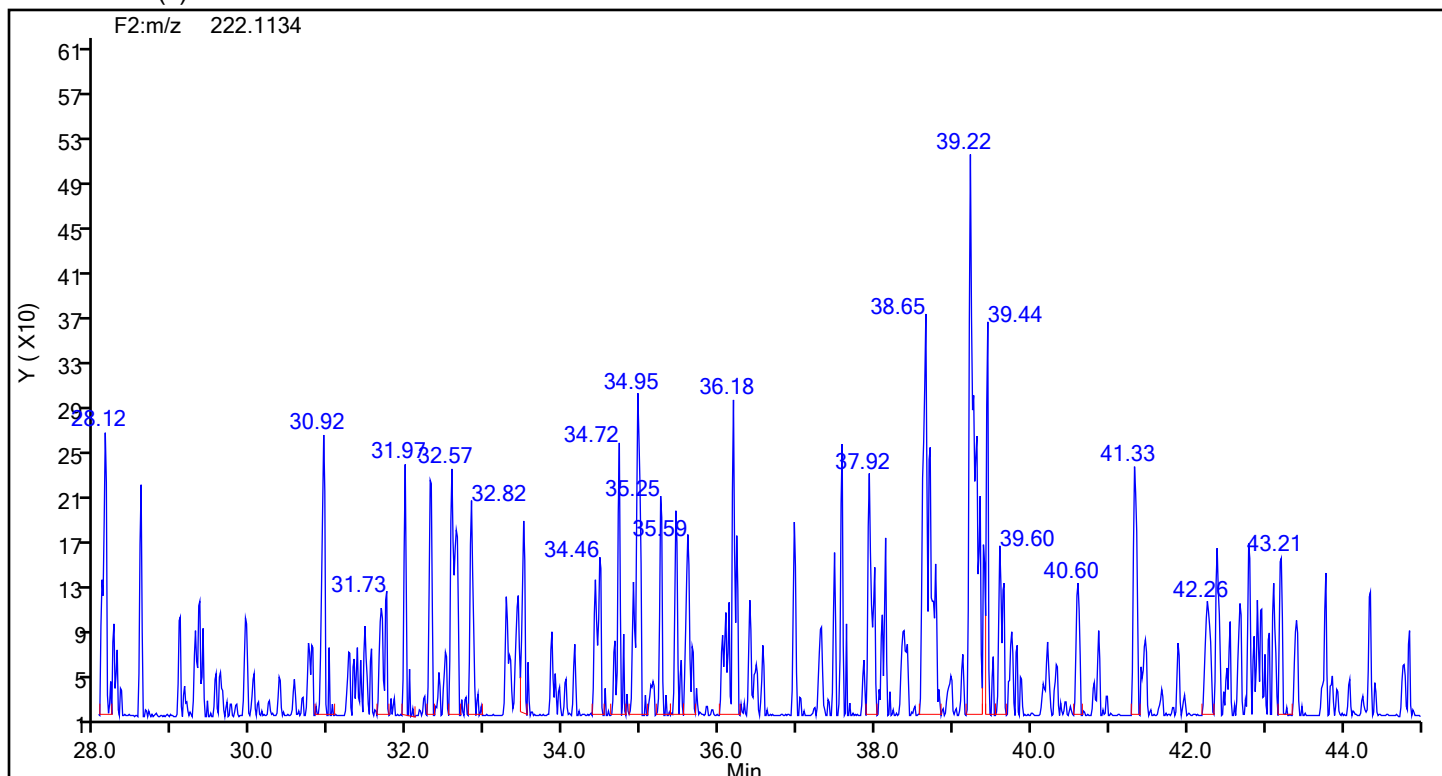
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene-d10 Standards

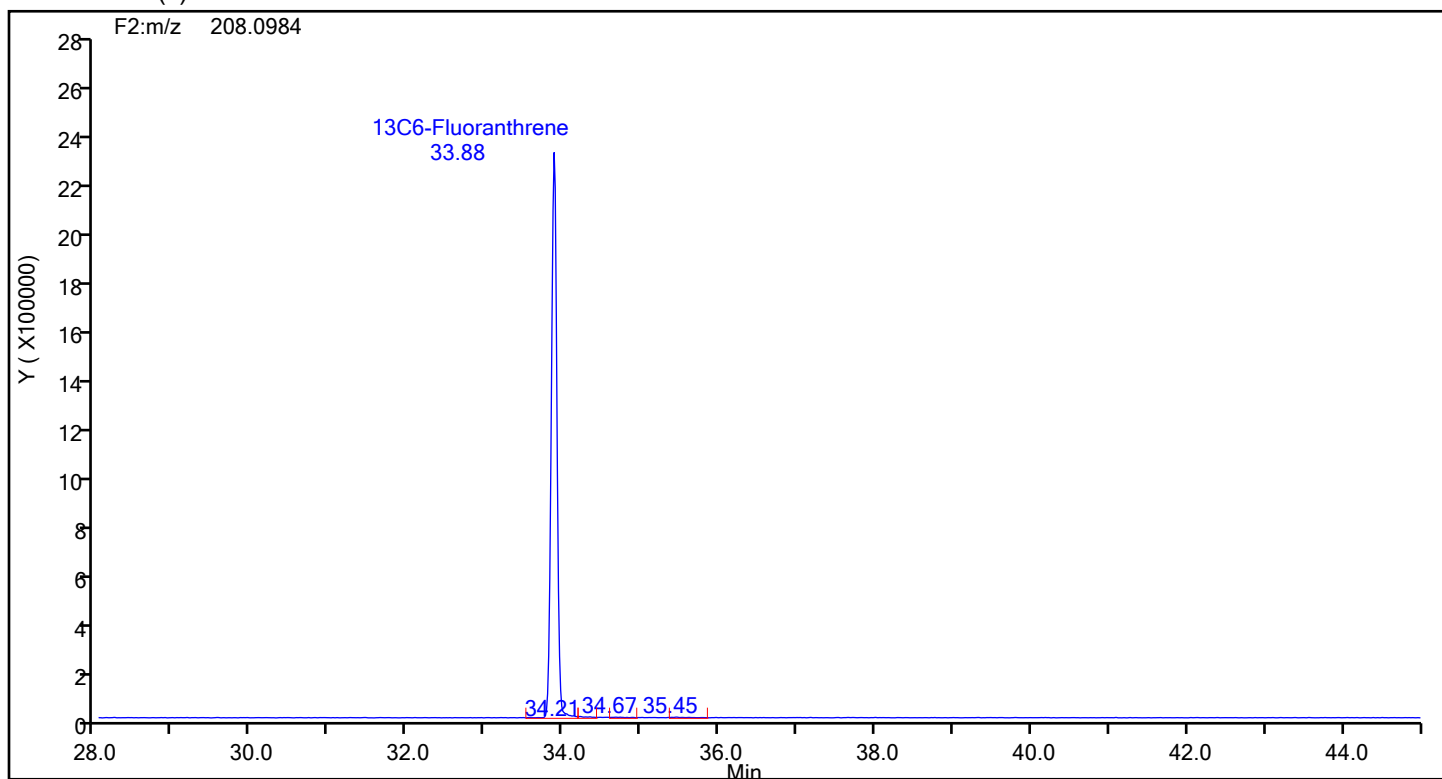


Eurofins Knoxville

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Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C6-Benzo(c)fluorene



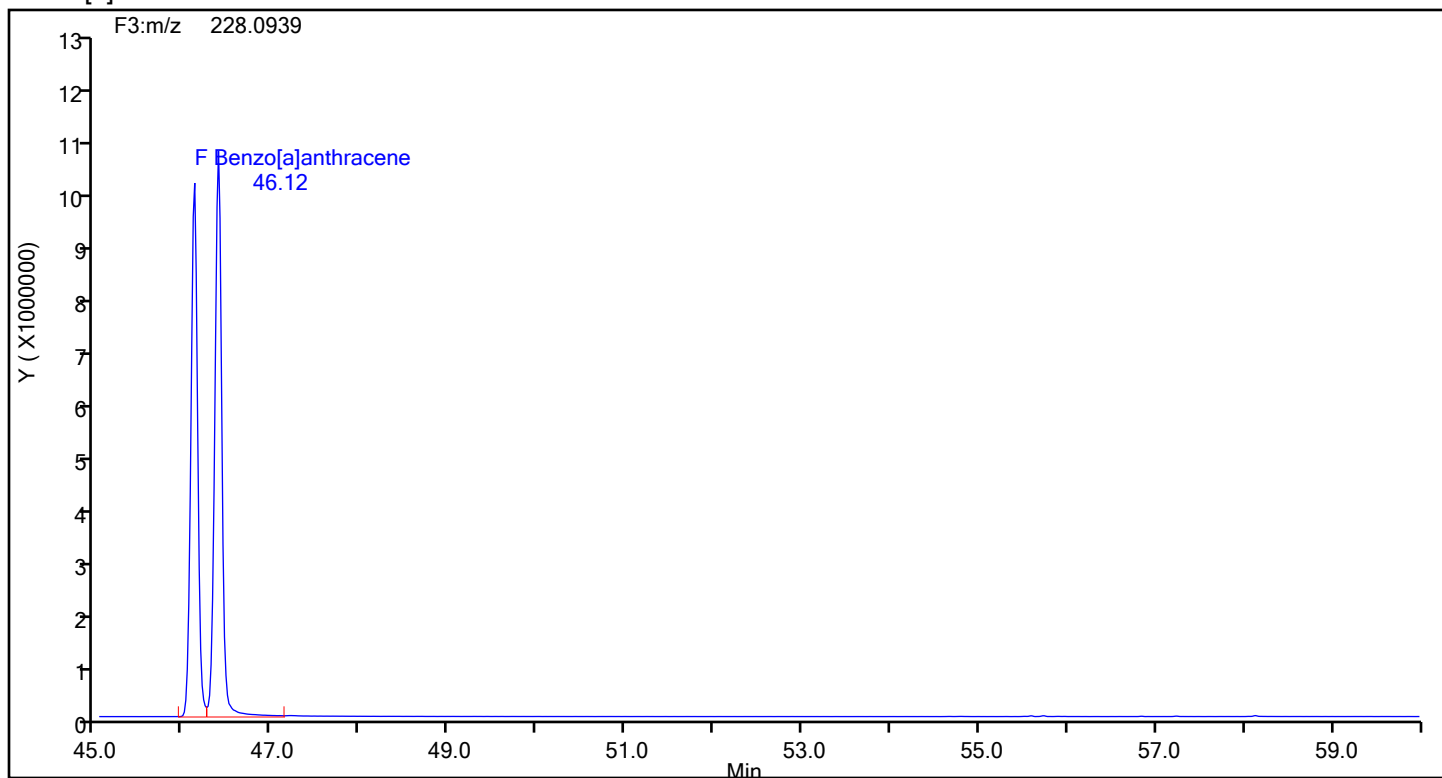
13C6-Benzo(c)fluorene Standards



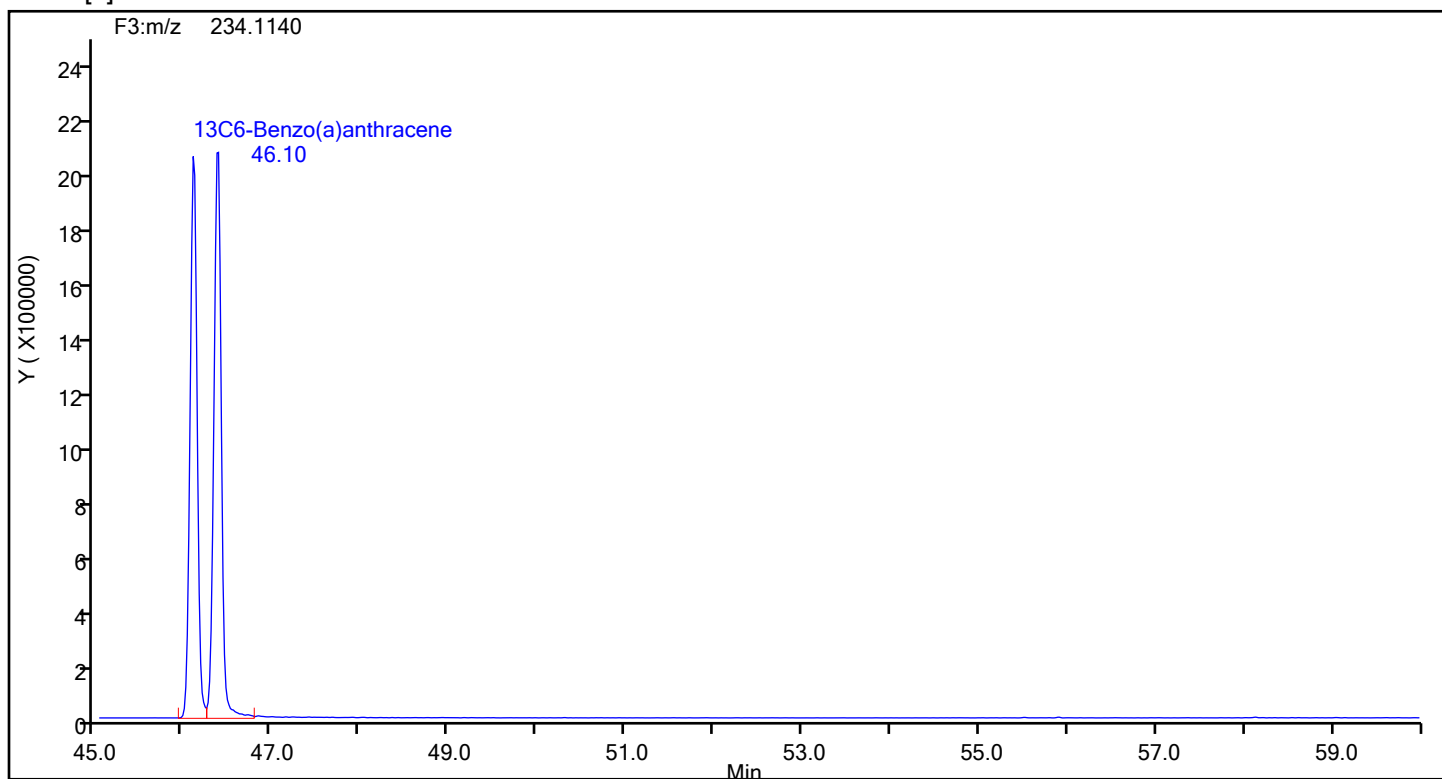
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



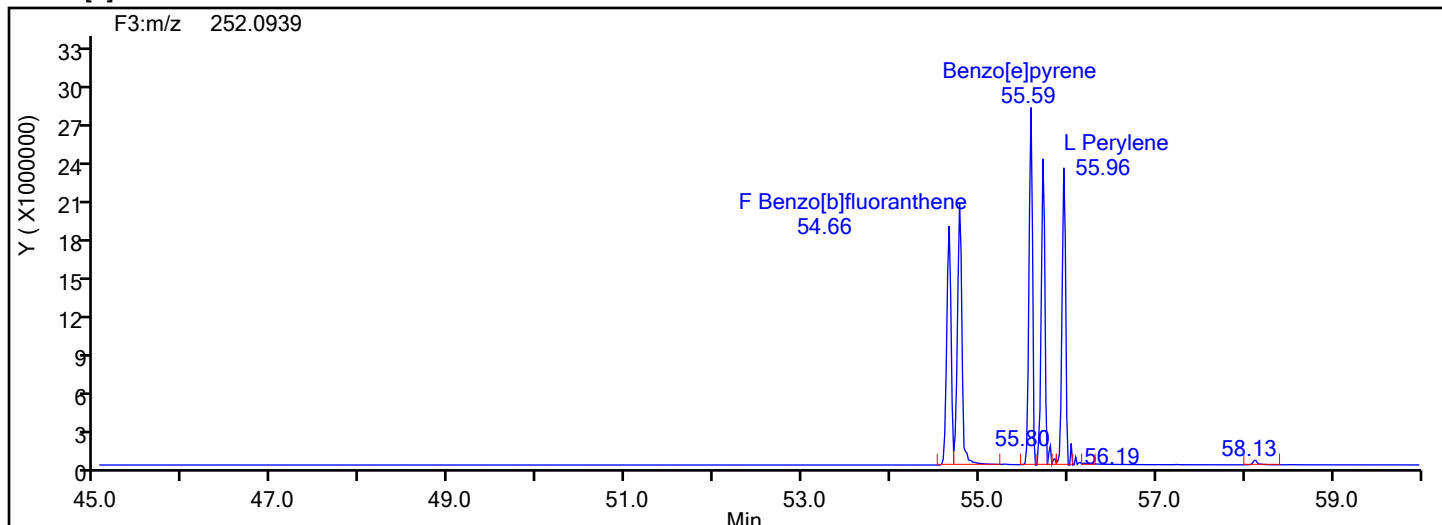
Benzo[a]anthracene Standards



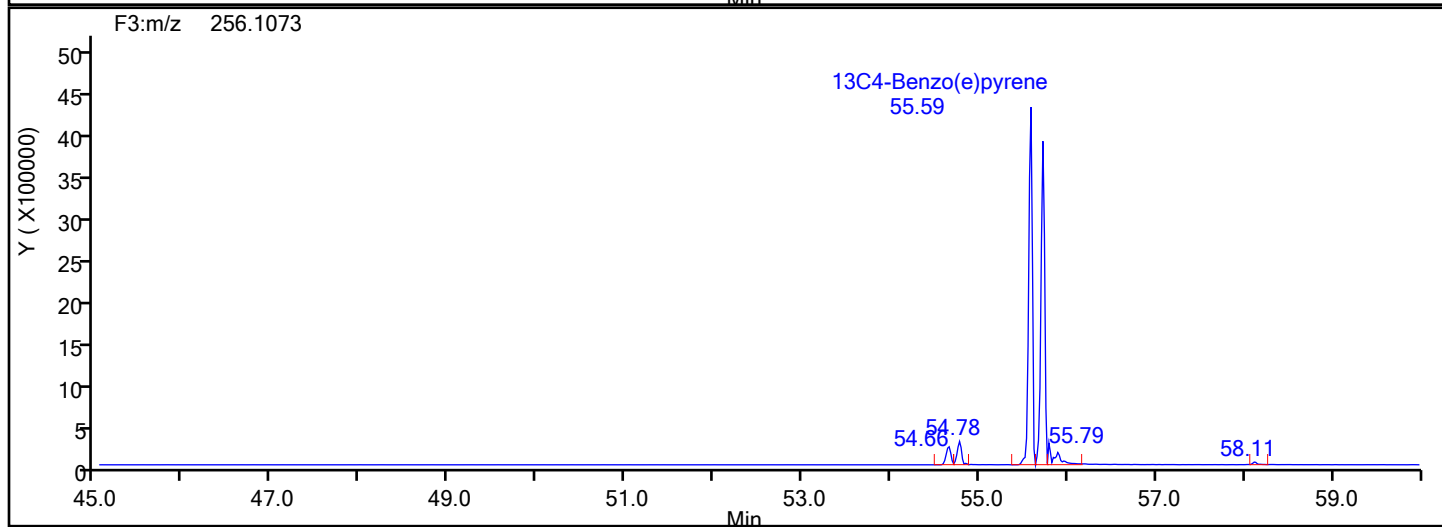
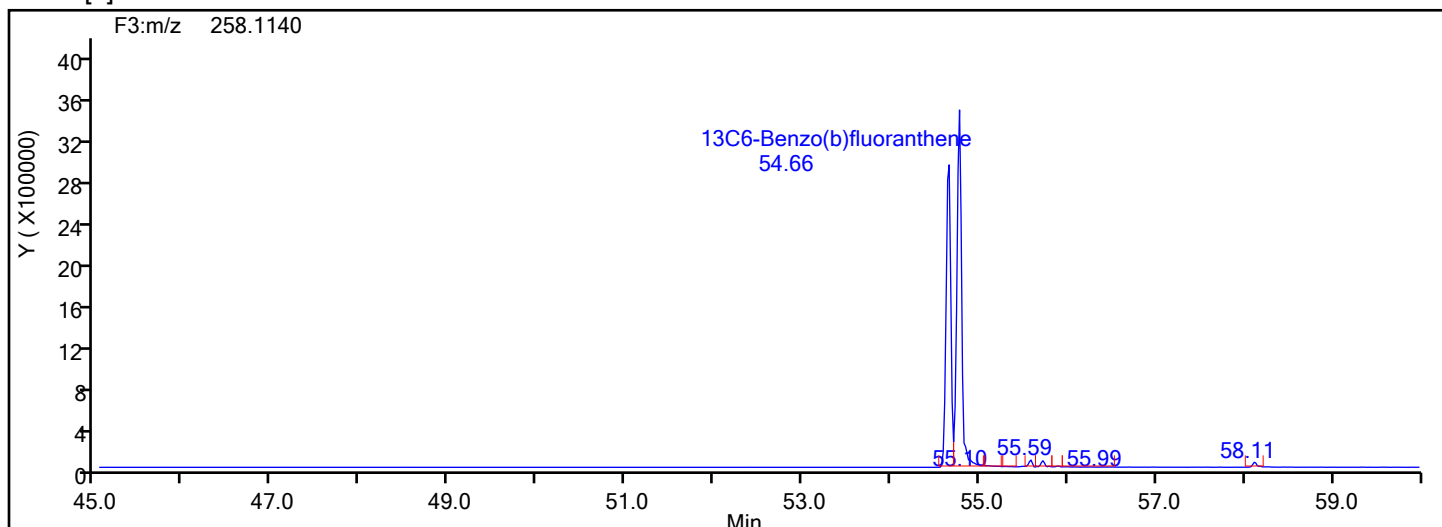
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Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene

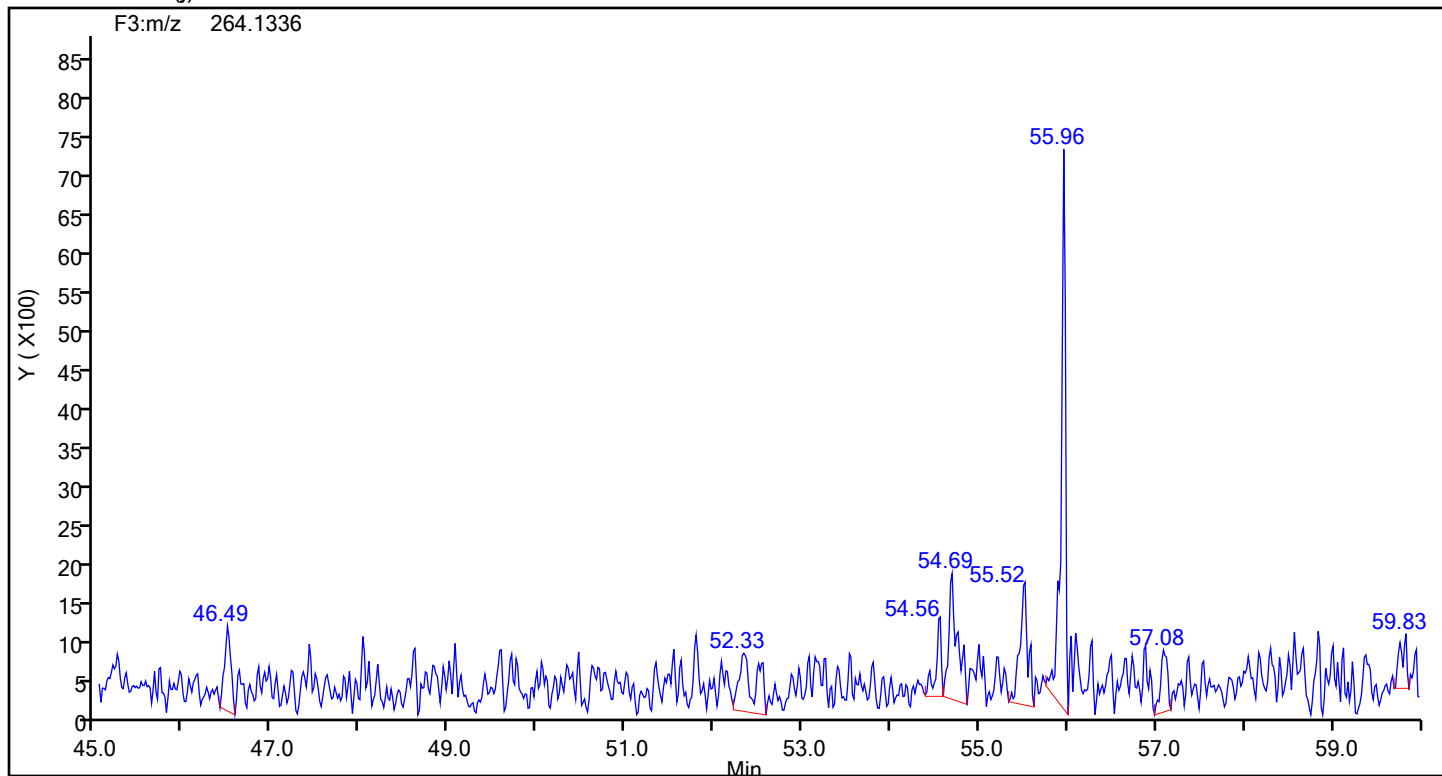


Benzo[b]fluoranthene Standards

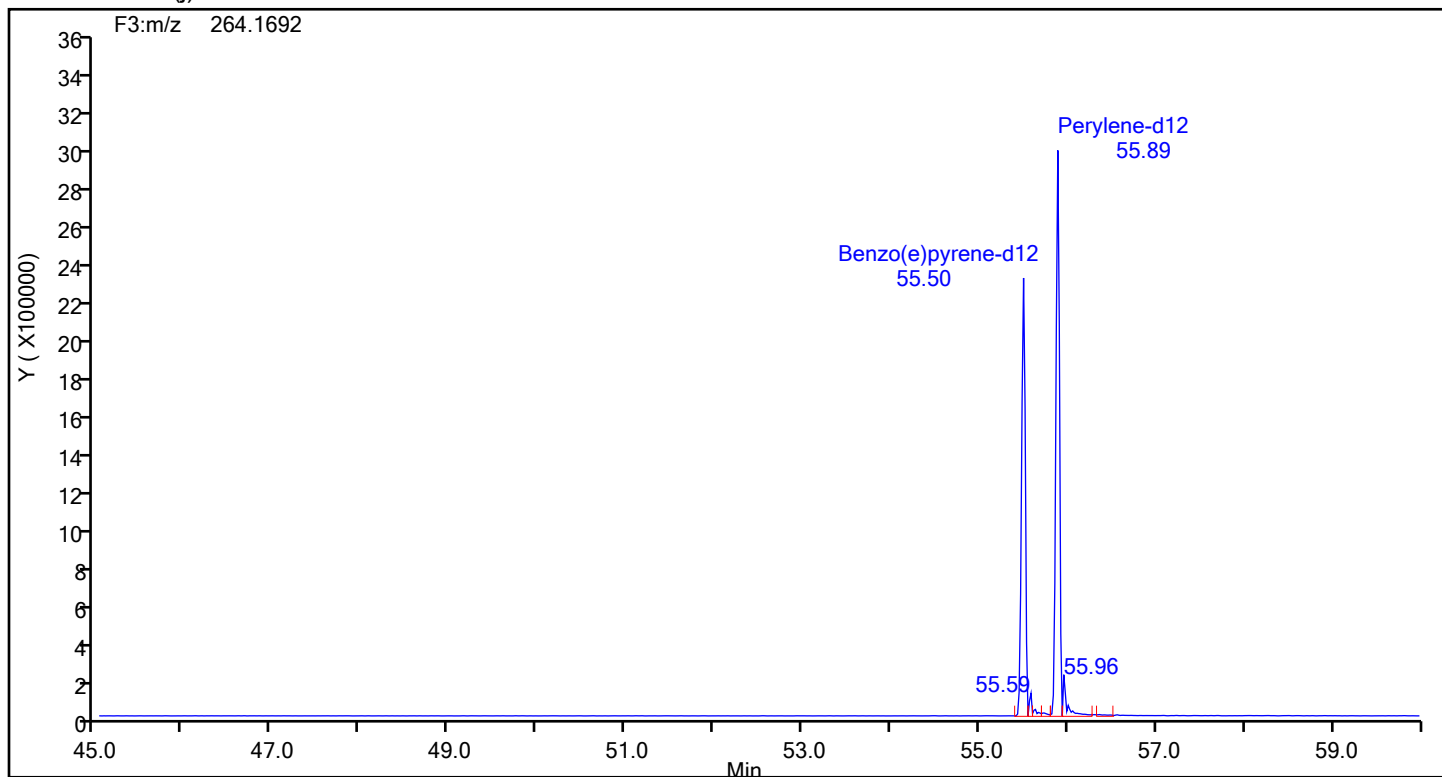


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Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C12-Benzo(j)fluoranthene



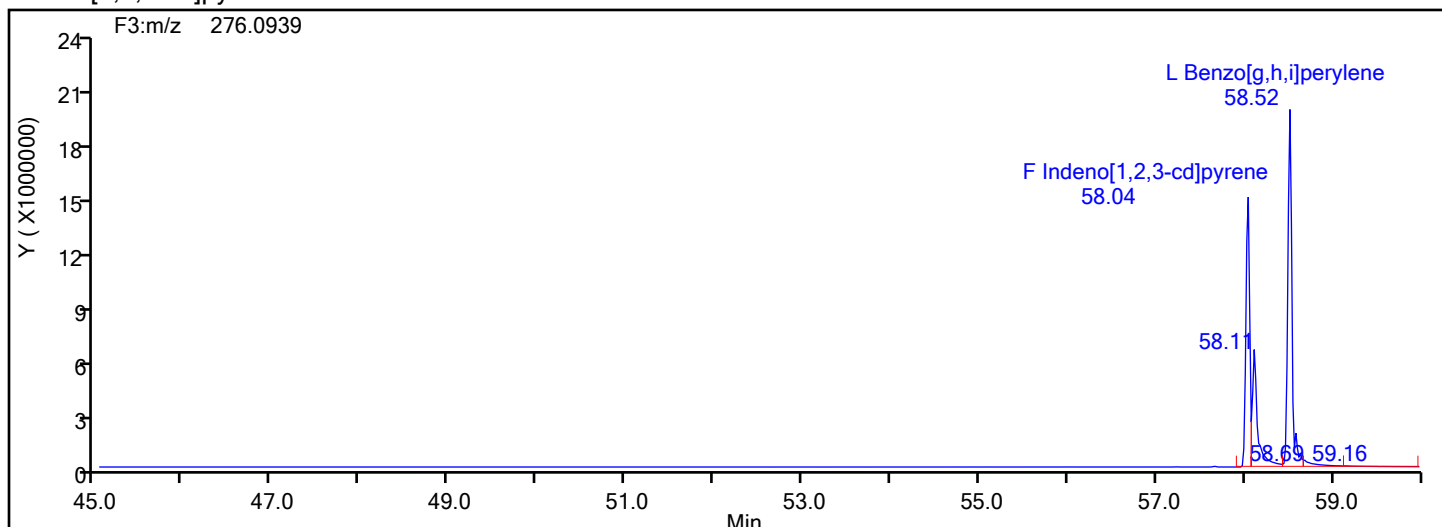
13C12-Benzo(j)fluoranthene Standards



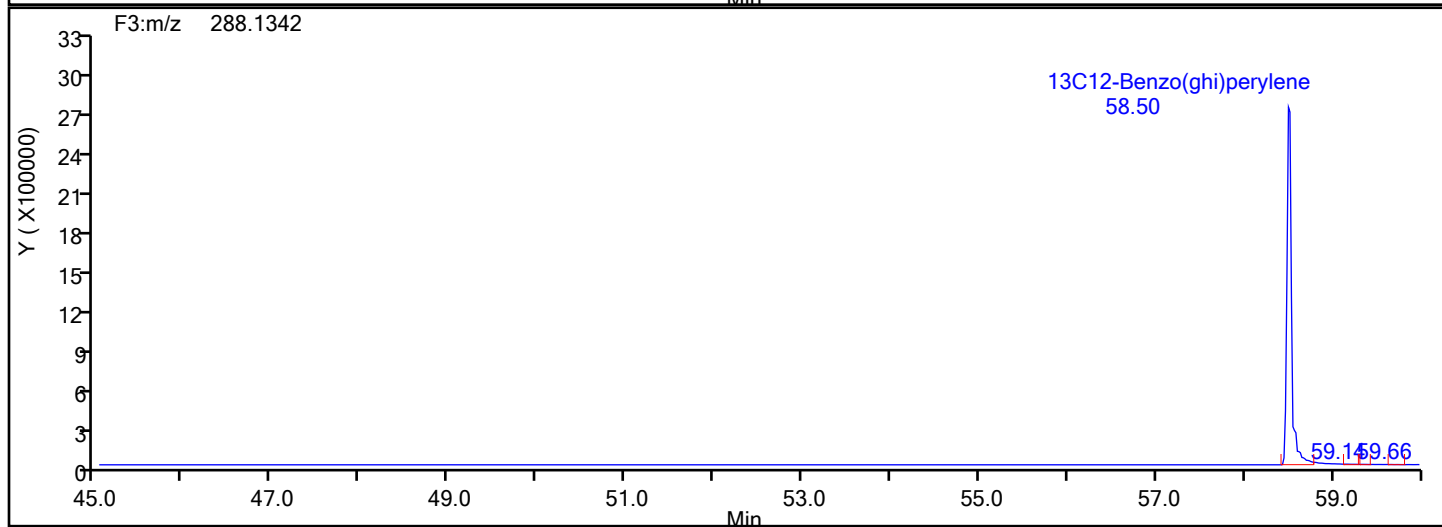
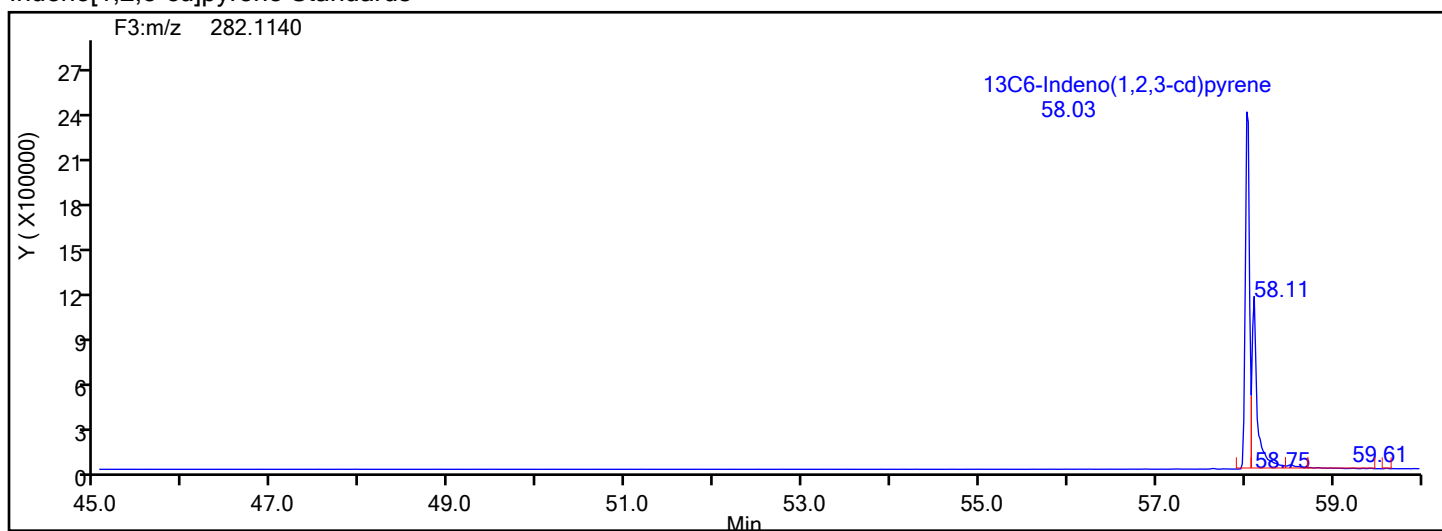
Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



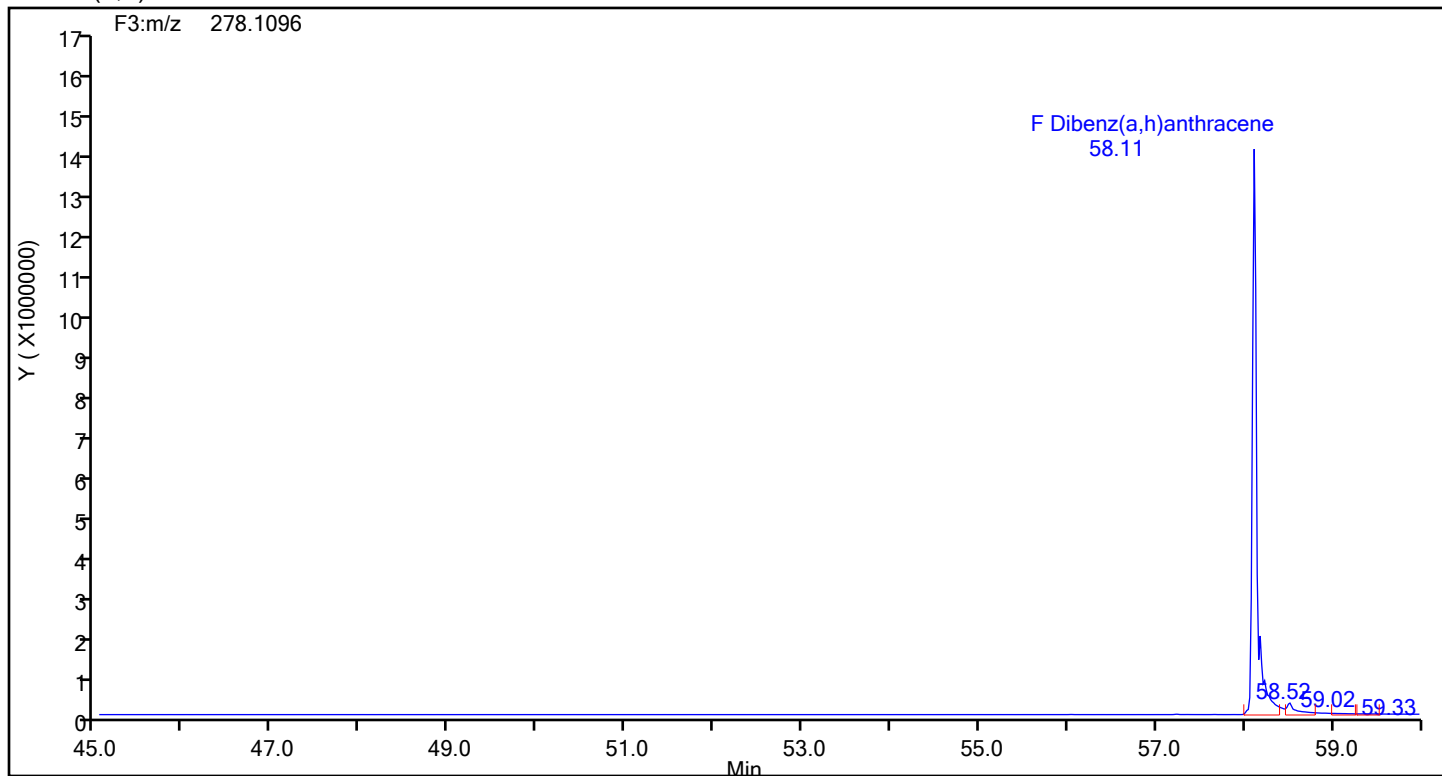
Indeno[1,2,3-cd]pyrene Standards



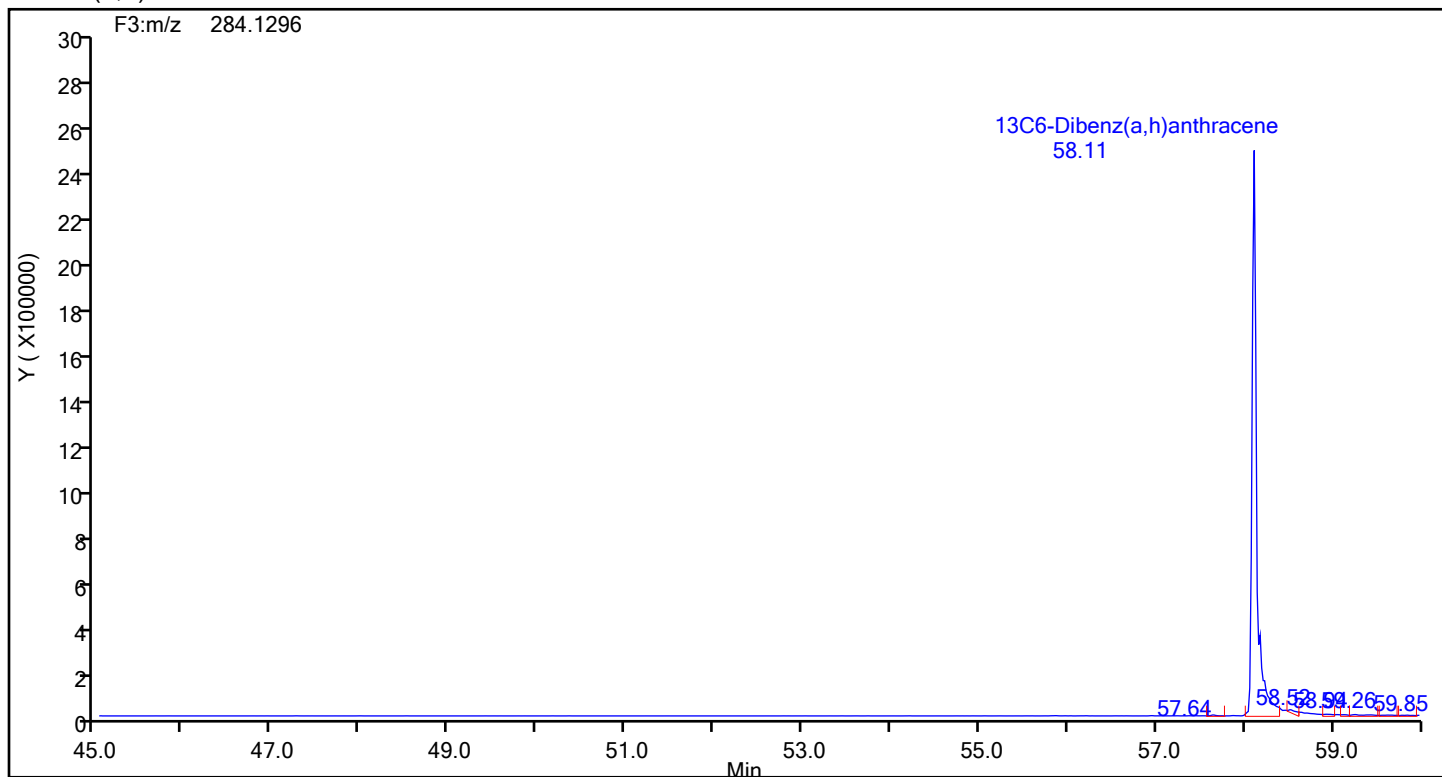
Eurofins Knoxville

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Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



FORM VII
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: CCV 140-87921/1 Calibration Date: 06/21/2024 00:53

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240621c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.240		192	200	-3.8	25.0
2-Methylnaphthalene	AveID	1.279	1.191		186	200	-6.8	25.0
Acenaphthylene	AveID	2.366	2.234		189	200	-5.6	25.0
Acenaphthene	AveID	1.270	1.177		185	200	-7.3	25.0
Fluorene	AveID	1.253	1.217		194	200	-2.9	25.0
Phenanthrene	AveID	1.104	1.001		181	200	-9.3	25.0
Anthracene	AveID	1.359	1.239		182	200	-8.8	25.0
Fluoranthene	AveID	1.151	1.087		189	200	-5.6	25.0
Pyrene	AveID	1.065	1.001		188	200	-6.1	25.0
Benzo[a]anthracene	AveID	0.9739	1.002		206	200	2.9	25.0
Chrysene	AveID	0.9815	1.007		205	200	2.6	25.0
Benzo[b]fluoranthene	AveID	1.125	1.105		196	200	-1.8	25.0
Benzo[k]fluoranthene	AveID	1.127	1.050		186	200	-6.9	25.0
Benzo[e]pyrene	AveID	1.001	0.9539		191	200	-4.7	25.0
Benzo[a]pyrene	AveID	1.113	1.077		194	200	-3.2	25.0
Perylene	AveID	1.431	1.461		204	200	2.1	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.139		203	200	1.3	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.089		193	200	-3.8	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.208		188	200	-5.9	25.0
13C6-Naphthalene	Ave	3.375	2.853		84.6	100	-15.4	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.380		86.1	100	-13.9	30.0
13C6-Acenaphthylene	Ave	1.652	1.579		95.6	100	-4.4	30.0
13C6-Acenaphthene	Ave	0.9792	0.8967		91.6	100	-8.4	30.0
13C6-Fluorene	Ave	0.8898	0.9748		110	100	9.6	30.0
13C6-Phenanthrene	Ave	0.5724	0.6025		105	100	5.2	30.0
13C6-Anthracene	Ave	0.4523	0.4620		102	100	2.1	30.0
13C6-Fluoranthrene	Ave	1.199	1.175		98.0	100	-2.0	30.0
13C3-Pyrene	Ave	1.351	1.308		96.8	100	-3.2	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.432		94.3	100	-5.7	30.0
13C6-Chrysene	Ave	1.629	1.410		86.6	100	-13.4	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.530		105	100	4.6	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.714		97.9	100	-2.1	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.588		97.0	100	-3.0	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.499		96.7	100	-3.3	30.0
Perylene-d12	Ave	1.192	1.206		101	100	1.2	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.320		129	100	29.1	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.334		126	100	26.4	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.399		110	100	9.7	30.0

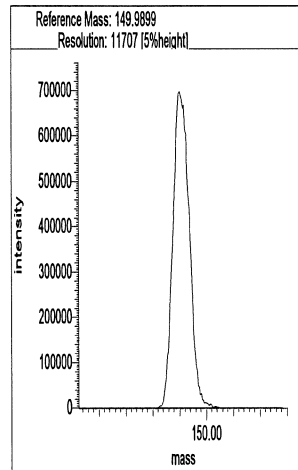
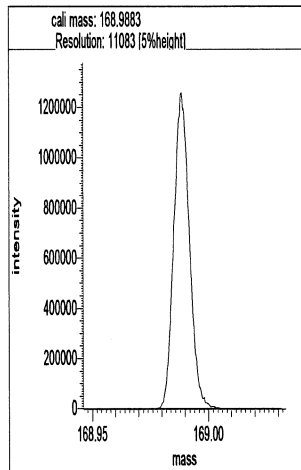
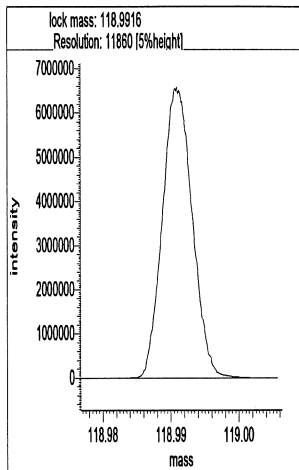
Resolution Check Report (DFS SN: 3439)

Date: 21 Jun 2024 00:43
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

-d3240621r1

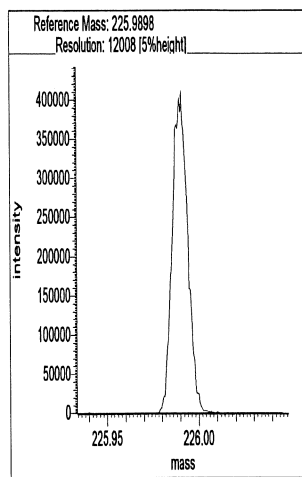
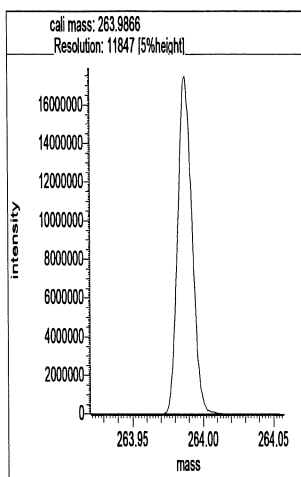
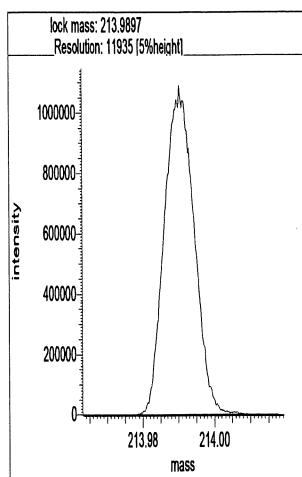
Segment 1

Lock mass 118.9916 [m/z] Resolution: 11860 [5%height]
Cali. mass 168.9883 [m/z] Resolution: 11083 [5%height]
Ref. mass 149.9899 [m/z] Resolution: 11707 [5%height]



Segment 2

Lock mass 213.9897 [m/z] Resolution: 11935 [5%height]
Cali. mass 263.9866 [m/z] Resolution: 11847 [5%height]
Ref. mass 225.9898 [m/z] Resolution: 12008 [5%height]

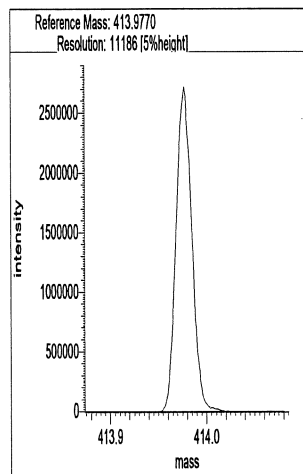
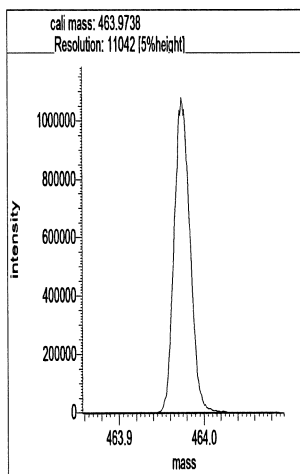
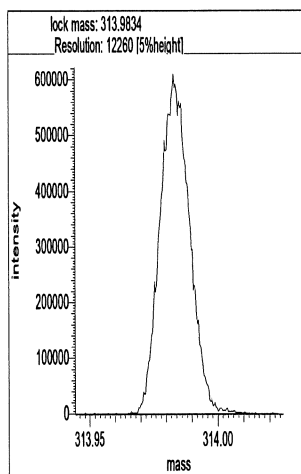


Segment 3

Lock mass 313.9834 [m/z] Resolution: 12260 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 11042 [5%height]

Ref. mass 413.9770 [m/z] Resolution: 11186 [5%height]



Reports

00:50:21: Peak matching procedure started
00:50:22:
00:50:22: Reference mass: 118.99147
00:50:23: Sample mass: 169.0
00:50:23:
00:50:24: Finding reference mass
00:50:25: Finding sample mass
00:50:25:
00:50:31: [1] 168.9886 amu, mean: 168.9886
00:50:34: [2] 168.9886 amu, mean: 168.9886 SD: 0.04 mmu or: 0.26 ppm
00:50:37: [3] 168.9886 amu, mean: 168.9886 SD: 0.03 mmu or: 0.19 ppm
00:50:40: [4] 168.9884 amu, mean: 168.9885 SD: 0.12 mmu or: 0.69 ppm
00:50:43: [5] 168.9883 amu, mean: 168.9885 SD: 0.15 mmu or: 0.86 ppm
00:50:46: [6] 168.9883 amu, mean: 168.9884 SD: 0.16 mmu or: 0.94 ppm
00:50:50: [7] 168.9882 amu, mean: 168.9884 SD: 0.18 mmu or: 1.07 ppm
00:50:53: [8] 168.9881 amu, mean: 168.9884 SD: 0.20 mmu or: 1.20 ppm
00:50:56: [9] 168.9882 amu, mean: 168.9883 SD: 0.20 mmu or: 1.17 ppm
00:50:59: [10] 168.9881 amu, mean: 168.9883 SD: 0.20 mmu or: 1.20 ppm
00:51:02: [11] 168.9882 amu, mean: 168.9883 SD: 0.20 mmu or: 1.16 ppm
00:51:03:
00:51:03: Stop requested. Please wait for procedure to finish.
00:51:03:
00:51:05:
00:51:06: Peakmatching stopped

Signature

Lk 6-21-24

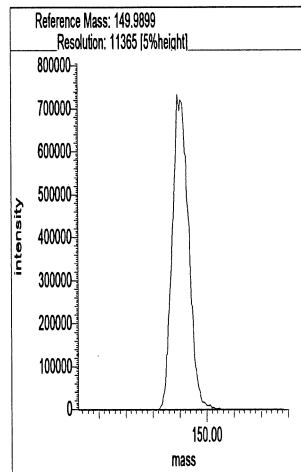
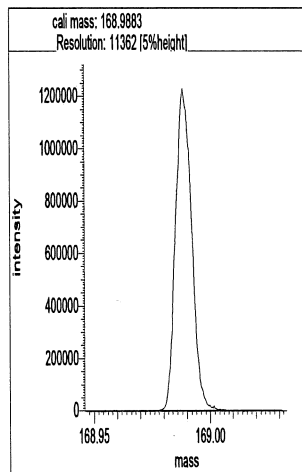
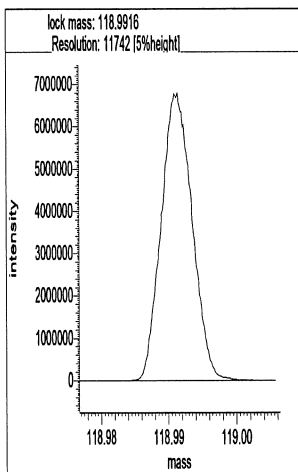
Resolution Check Report (DFS SN: 3439)

Date: 21 Jun 2024 11:35
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

-d3240621r2

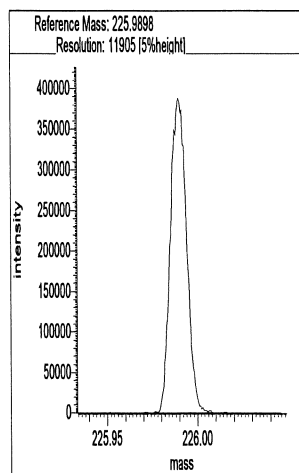
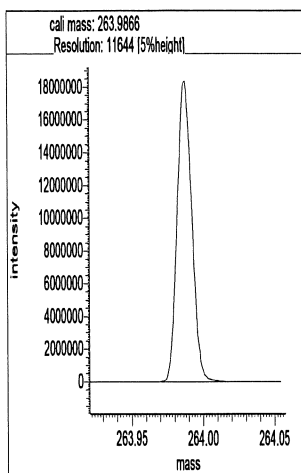
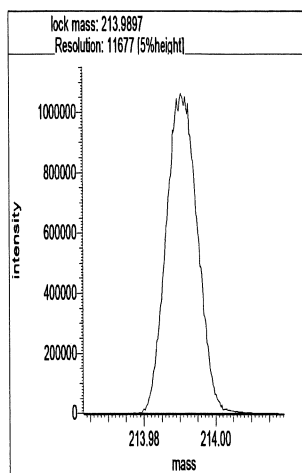
Segment 1

Lock mass 118.9916 [m/z] Resolution: 11742 [5%height]
Cali. mass 168.9883 [m/z] Resolution: 11362 [5%height]
Ref. mass 149.9899 [m/z] Resolution: 11365 [5%height]



Segment 2

Lock mass 213.9897 [m/z] Resolution: 11677 [5%height]
Cali. mass 263.9866 [m/z] Resolution: 11644 [5%height]
Ref. mass 225.9898 [m/z] Resolution: 11905 [5%height]

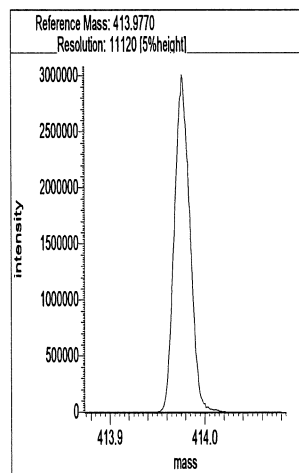
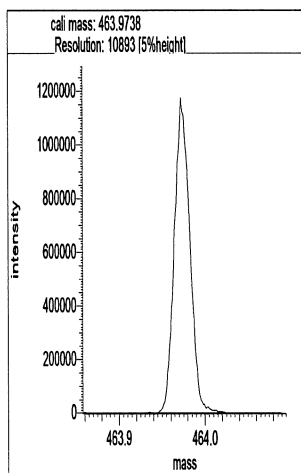
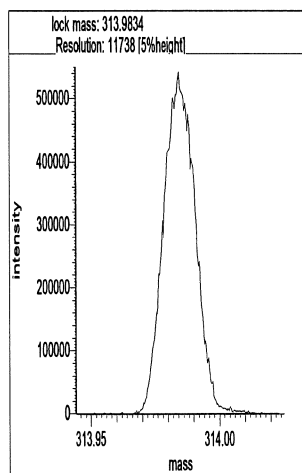


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11738 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 10893 [5%height]

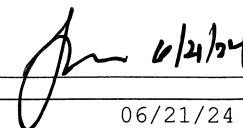
Ref. mass 413.9770 [m/z] Resolution: 11120 [5%height]



Reports

11:44:15: Peak matching procedure started
11:44:16:
11:44:16: Reference mass: 263.98656
11:44:17: Sample mass: 414.0
11:44:17:
11:44:18: Finding reference mass
11:44:19: Finding sample mass
11:44:19:
11:44:25: [1] 413.9779 amu, mean: 413.9779
11:44:28: [2] 413.9774 amu, mean: 413.9777 SD: 0.34 mmu or: 0.82 ppm
11:44:31: [3] 413.9775 amu, mean: 413.9776 SD: 0.26 mmu or: 0.62 ppm
11:44:34: [4] 413.9774 amu, mean: 413.9776 SD: 0.24 mmu or: 0.57 ppm
11:44:37: [5] 413.9771 amu, mean: 413.9775 SD: 0.28 mmu or: 0.68 ppm
11:44:41: [6] 413.9766 amu, mean: 413.9773 SD: 0.44 mmu or: 1.05 ppm
11:44:44: [7] 413.9761 amu, mean: 413.9771 SD: 0.60 mmu or: 1.46 ppm
11:44:47: [8] 413.9760 amu, mean: 413.9770 SD: 0.70 mmu or: 1.68 ppm
11:44:50: [9] 413.9759 amu, mean: 413.9769 SD: 0.75 mmu or: 1.81 ppm
11:44:53: [10] 413.9763 amu, mean: 413.9768 SD: 0.73 mmu or: 1.76 ppm
11:44:56: [11] 413.9756 amu, mean: 413.9767 SD: 0.78 mmu or: 1.89 ppm
11:44:57:
11:44:57: Stop requested. Please wait for procedure to finish.
11:44:57:
11:44:59:
11:45:00: Peakmatching stopped

Signature _____

Handwritten signature in black ink, appearing to be 'Jm' followed by the date '6/21/24'.

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\d3240621c1a.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Jun-2024 00:53:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033201-001
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 21-Jun-2024 02:06:22 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1679

First Level Reviewer: V4XA

Date: 21-Jun-2024 02:06:22

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	14338944		3.3746	84.6	84.6	0.0139	0.0139	84.55	
Naphthalene	11:34	35565587		1.2893	192.4	192.4	0.0359	0.0359	96.19	
D 13C6-2-Methylnaphthalene	13:53	6933125		1.6031	86.1	86.1	0.008938	0.008938	86.06	
2-Methylnaphthalene	13:53	16517933		1.2786	186.3	186.3	0.0205	0.0205	93.17	
D 13C6-Acenaphthylene	16:45	7934658		1.6520	95.6	95.6	0.0175	0.0175	95.57	
Acenaphthylene	16:45	20137527		2.3661	188.9	188.9	0.0278	0.0278	94.43	
* Acenaphthene-d10	17:20	5025513		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:27	4506264		0.9792	91.6	91.6	0.0229	0.0229	91.58	
Acenaphthene	17:28	10603891		1.2697	185.3	185.3	0.0259	0.0259	92.67	
Fluorene	19:45	11927956		1.2532	194.3	194.3	0.0250	0.0250	97.15	
D 13C6-Fluorene	19:45	4898993		0.8898	109.6	109.6	0.0229	0.0229	110	
D 13C6-Phenanthrene	25:07	7389981		0.5724	105.2	105.2	0.0149	0.0149	105	
Phenanthrene	25:08	14800812		1.1044	181.3	181.3	0.0303	0.0303	90.67	
\$ Anthracin-d10	25:21	5530242		0.4257	105.9	105.9	0.005087	0.005087	106	
D 13C6-Anthracene	25:28	5666509		0.4523	102.1	102.1	0.0189	0.0189	102	
Anthracene	25:28	14038821		1.3586	182.4	182.4	0.0313	0.0313	91.18	
D 13C6-Fluoranthrene	33:52	14416655		1.1994	98.0	98.0	0.0130	0.0130	98.00	
Fluoranthene	33:53	31339104		1.1513	188.8	188.8	0.0137	0.0137	94.41	
* Pyrene-d10	35:26	12265939		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	16045878		1.3512	96.8	96.8	0.0159	0.0159	96.81	
Pyrene	35:34	32114159		1.0652	187.9	187.9	0.0137	0.0137	93.94	
\$ 13C6-Benzo(c)fluorene	39:16	7486175		0.5136	118.8	118.8	0.0153	0.0153	119	
D 13C6-Benzo(a)anthracene	46:06	18064737		1.5189	94.3	94.3	0.0136	0.0136	94.30	
Benzo[a]anthracene	46:06	36213601		0.9739	205.8	205.8	0.0392	0.0392	103	
D 13C6-Chrysene	46:22	17783945		1.6287	86.6	86.6	0.0127	0.0127	86.58	
Chrysene	46:22	35820717		0.9815	205.2	205.2	0.0408	0.0408	103	
D 13C6-Benzo(b)fluoranthene	54:38	19294785		1.4621	104.6	104.6	0.005424	0.005424	105	
Benzo[b]fluoranthene	54:39	42625909		1.1249	196.4	196.4	0.005654	0.005654	98.19	
\$ 13C12-Benzo(j)fluoranthene	54:40	16735277		1.3558	97.9	97.9	0.0111	0.0111	97.87	
D 13C6-Benzo(k)fluoranthene	54:46	21612344		1.7507	97.9	97.9	0.004529	0.004529	97.89	
Benzo[k]fluoranthene	54:46	45365734		1.1271	186.2	186.2	0.005280	0.005280	93.12	
* Benzo(e)pyrene-d12	55:30	12611636		5.7E+04	100.0	100.0				M
D 13C4-Benzo(e)pyrene	55:34	20029641		1.6368	97.0	97.0	0.0113	0.0113	97.03	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	38211682		1.0013	190.5	190.5	0.005330	0.005330	95.27	
Benzo[a]pyrene	55:43	40730140		1.1130	193.6	193.6	0.004787	0.004787	96.79	
D 13C4-Benzo(a)pyrene	55:43	18903795		1.5508	96.7	96.7	0.0119	0.0119	96.65	
D Perylene-d12	55:53	15209810		1.1917	101.2	101.2	0.0120	0.0120	101	
Perylene	55:57	44443667		1.4307	204.2	204.2	0.004444	0.004444	102	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	16642661		1.0218	129.1	129.1	0.0111	0.0111	129	
Indeno[1,2,3-cd]pyrene	58:01	37913606		1.1249	202.5	202.5	0.004892	0.004892	101	
D 13C6-Dibenz(a,h)anthracene	58:05	16823035		1.0553	126.4	126.4	0.009699	0.009699	126	
Dibenz(a,h)anthracene	58:06	36631323		1.1314	192.5	192.5	0.004107	0.004107	96.23	
D 13C12-Benzo(ghi)perylene	58:30	17640877		1.2749	109.7	109.7	0.003913	0.003913	110	
Benzo[g,h,i]perylene	58:30	42633666		1.2838	188.3	188.3	0.004116	0.004116	94.13	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS5a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\d3240621c1a.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Jun-2024 00:53:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033201-001
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 21-Jun-2024 02:06:22 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1679

First Level Reviewer: V4XA

Date: 21-Jun-2024 02:06:22

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	0	0.666	14338944	4925369	327	817	15062		
Naphthalene											
128.0626	11:34	11:34	0	1.001	35565587	12117761	913	2282	13272		
13C6-2-Methylnaphthalene											
148.0984	13:53	13:53	0	0.801	6933125	3119609	100	250	31196		
2-Methylnaphthalene											
142.0783	13:53	13:53	0	1.000	16517933	7946292	327	817	24301		
13C6-Acenaphthylene											
158.0828	16:45	16:45	0	0.966	7934658	2824462	202	505	13982		
Acenaphthylene											
152.0626	16:45	16:45	0	1.000	20137527	7166475	421	1052	17023		
Acenaphthene-d10											
164.1404	17:20	17:20	0		5025513	1744797	62	155	28142		
13C6-Acenaphthene											
160.0984	17:27	17:27	0	1.007	4506264	1602007	157	392	10204		
Acenaphthene											
154.0783	17:28	17:28	0	1.001	10603891	3667111	211	527	17380		
Fluorene											
166.0783	19:45	19:45	0	1.000	11927956	3569233	186	465	19189		
13C6-Fluorene											
172.0984	19:45	19:45	0	1.139	4898993	1482118	142	355	10437		E
13C6-Phenanthrene											
184.0984	25:07	25:07	0	0.709	7389981	1739849	79	197	22023		E
Phenanthrene											
178.0783	25:08	25:08	0	1.000	14800812	3530934	233	582	15154		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:21	25:21	0	0.715	5530242	1336691	20	50	66835		
13C6-Anthracene											
184.0984	25:28	25:28	0	0.718	5666509	1368122	79	197	17318		E
Anthracene											
178.0783	25:28	25:28	0	1.000	14038821	3334495	233	582	14311		
13C6-Fluoranthrene											
208.0984	33:52	33:52	0	0.956	14416655	2862527	144	360	19879		
Fluoranthene											
202.0783	33:53	33:53	0	1.000	31339104	6537478	180	450	36319		
Pyrene-d10											
212.1404	35:26	35:26	0		12265939	2308889	58	145	39808		
13C3-Pyrene											
205.0883	35:34	35:34	0	1.004	16045878	3073131	199	497	15443		
Pyrene											
202.0783	35:34	35:34	0	1.000	32114159	6424831	180	450	35694		
13C6-Benzo(c)fluorene											
222.1134	39:16	39:16	0	0.708	7486175	1434334	73	182	19648		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:06	0	1.301	18064737	3341917	351	877	9521		
Benzo[a]anthracene											
228.0939	46:06	46:06	0	1.000	36213601	6729449	511	1277	13169		
13C6-Chrysene											
234.1140	46:22	46:22	0	1.309	17783945	3188321	351	877	9084		
Chrysene											
228.0939	46:22	46:22	0	1.000	35820717	6382381	511	1277	12490		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:38	0	0.985	19294785	5423916	135	337	40177		E
Benzo[b]fluoranthene											
252.0939	54:39	54:39	0	1.000	42625909	12013649	138	345	87055		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:40	0	0.985	16735277	4554740	257	642	17723		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:46	0	0.987	21612344	5797080	135	337	42941		
Benzo[k]fluoranthene											
252.0939	54:46	54:46	0	1.000	45365734	13130065	138	345	95145		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	0		12611636	4249869	244	610	17418		M M
13C4-Benzo(e)pyrene											
256.1073	55:34	55:34	0	1.001	20029641	6464486	314	785	20588		
Benzo[e]pyrene											
252.0939	55:35	55:35	0	1.000	38211682	13051849	138	345	94579		
Benzo[a]pyrene											
252.0939	55:43	55:43	0	1.000	40730140	14432512	138	345	104583		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:43	0	1.004	18903795	6475084	314	785	20621		
Perylene-d12											
264.1692	55:53	55:53	0	1.007	15209810	5426246	244	610	22239		E
Perylene											
252.0939	55:57	55:57	0	1.001	44443667	16079405	138	345	116517		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:01	0	1.046	16642661	5996467	192	480	31232		E
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:01	0	1.000	37913606	13224970	132	330	100189		
13C6-Dibenz(a,h)anthracene											
284.1296	58:05	58:05	0	1.047	16823035	5638948	174	435	32408		E
Dibenz(a,h)anthracene											
278.1096	58:06	58:06	0	1.000	36631323	12684808	105	262	120808		
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	17640877	6244650	85	212	73466		E
Benzo[g,h,i]perylene											
276.0939	58:30	58:30	0	1.000	42633666	14771140	132	330	111903		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS5a_00002

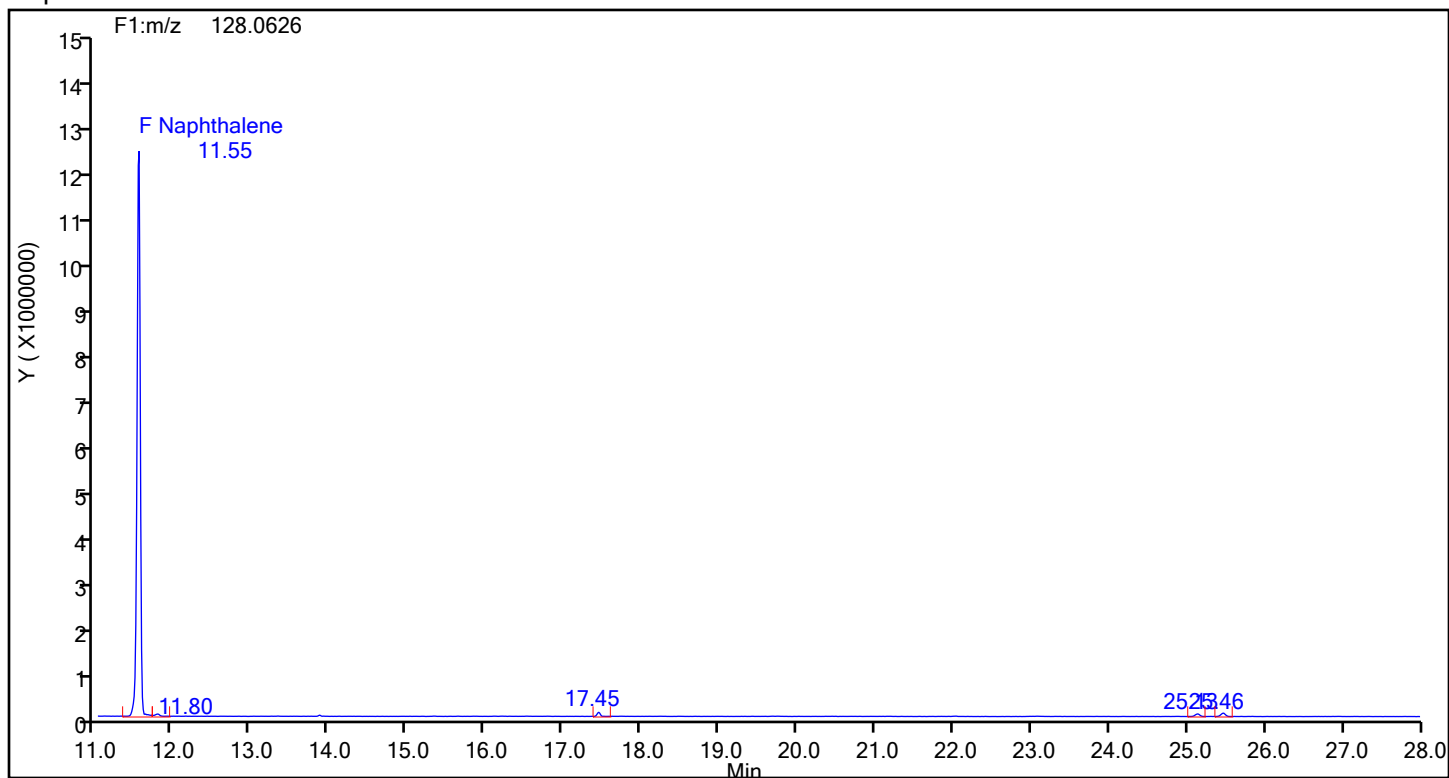
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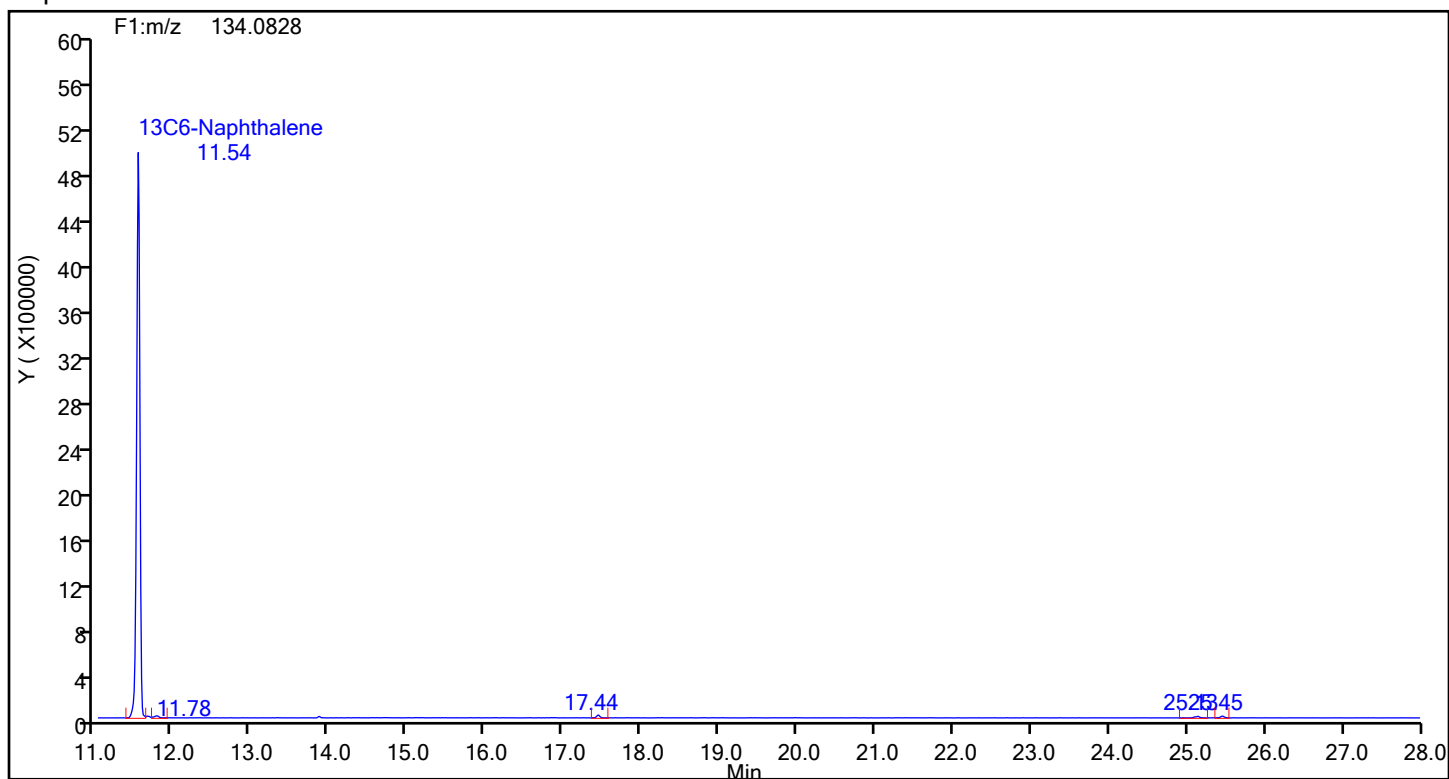
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



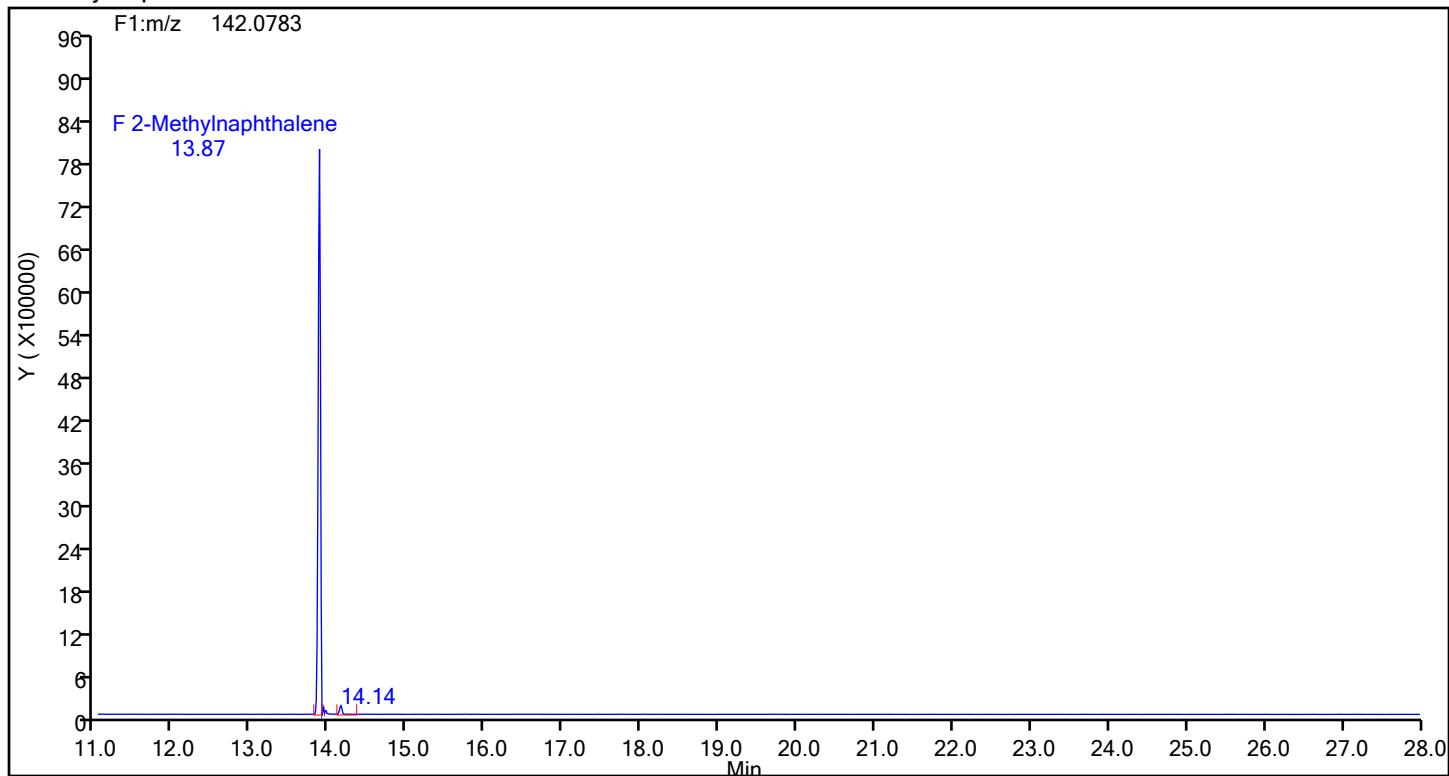
Naphthalene Standards



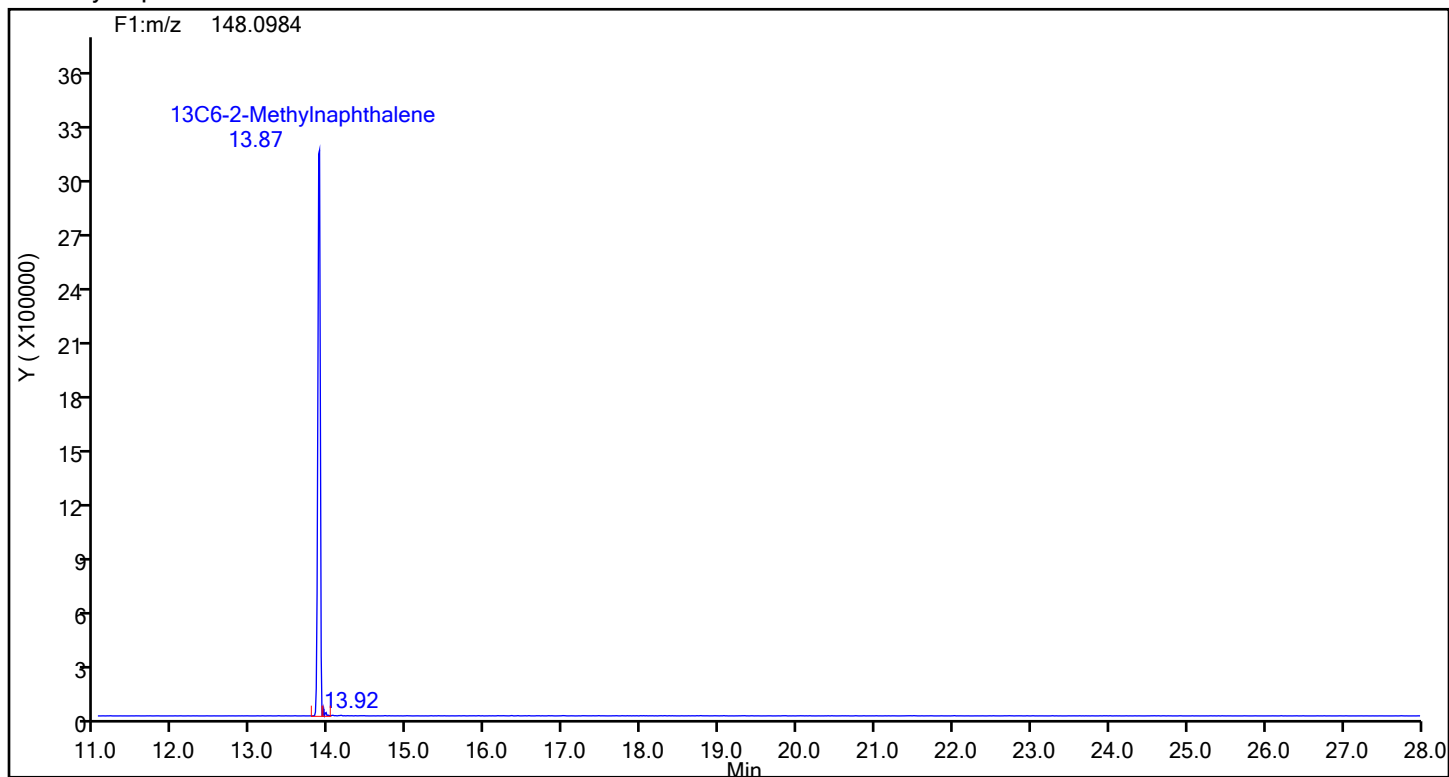
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Client ID:
Worklist#: 87921 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



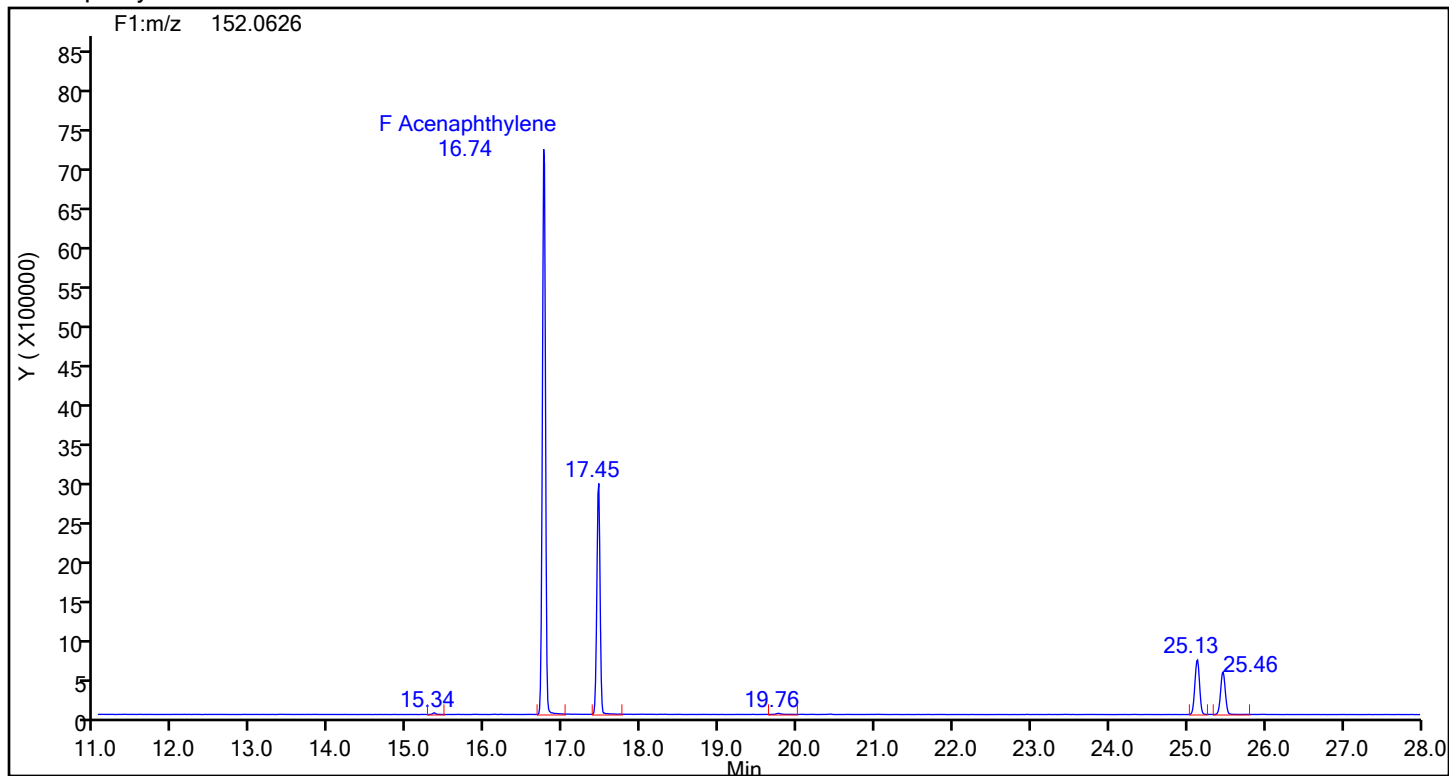
2-Methylnaphthalene Standards



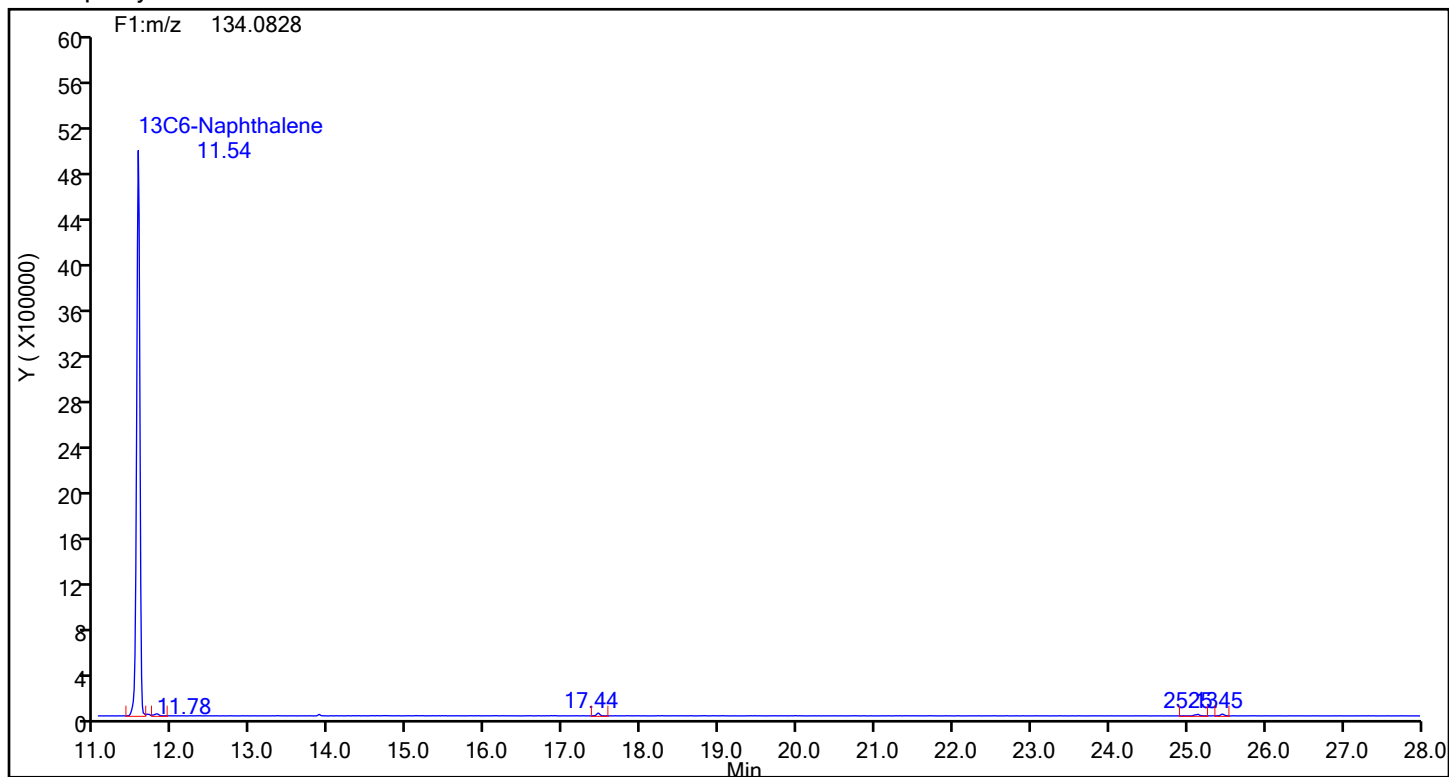
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



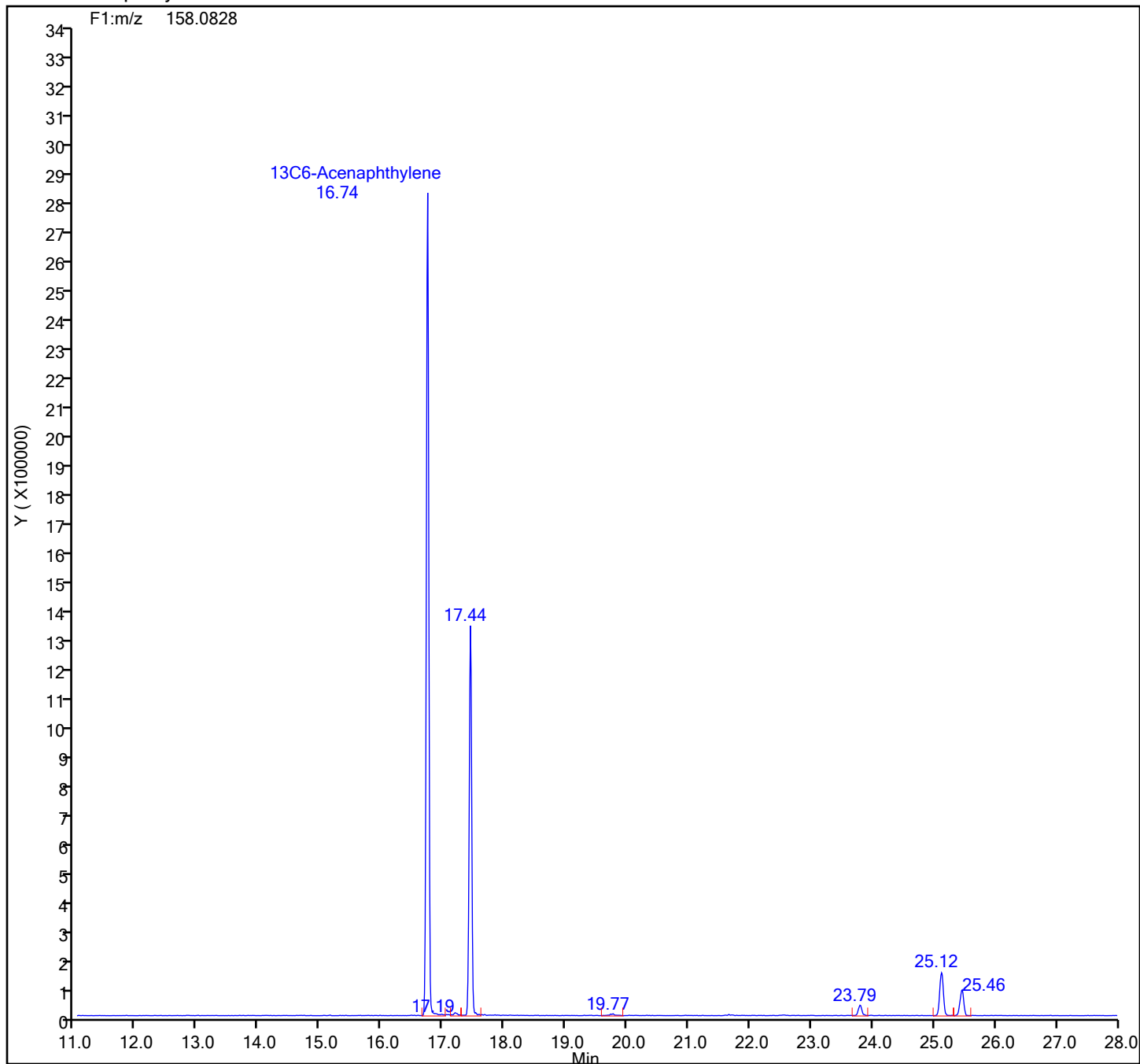
Acenaphthylene Standards



Eurofins Knoxville

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Client ID:
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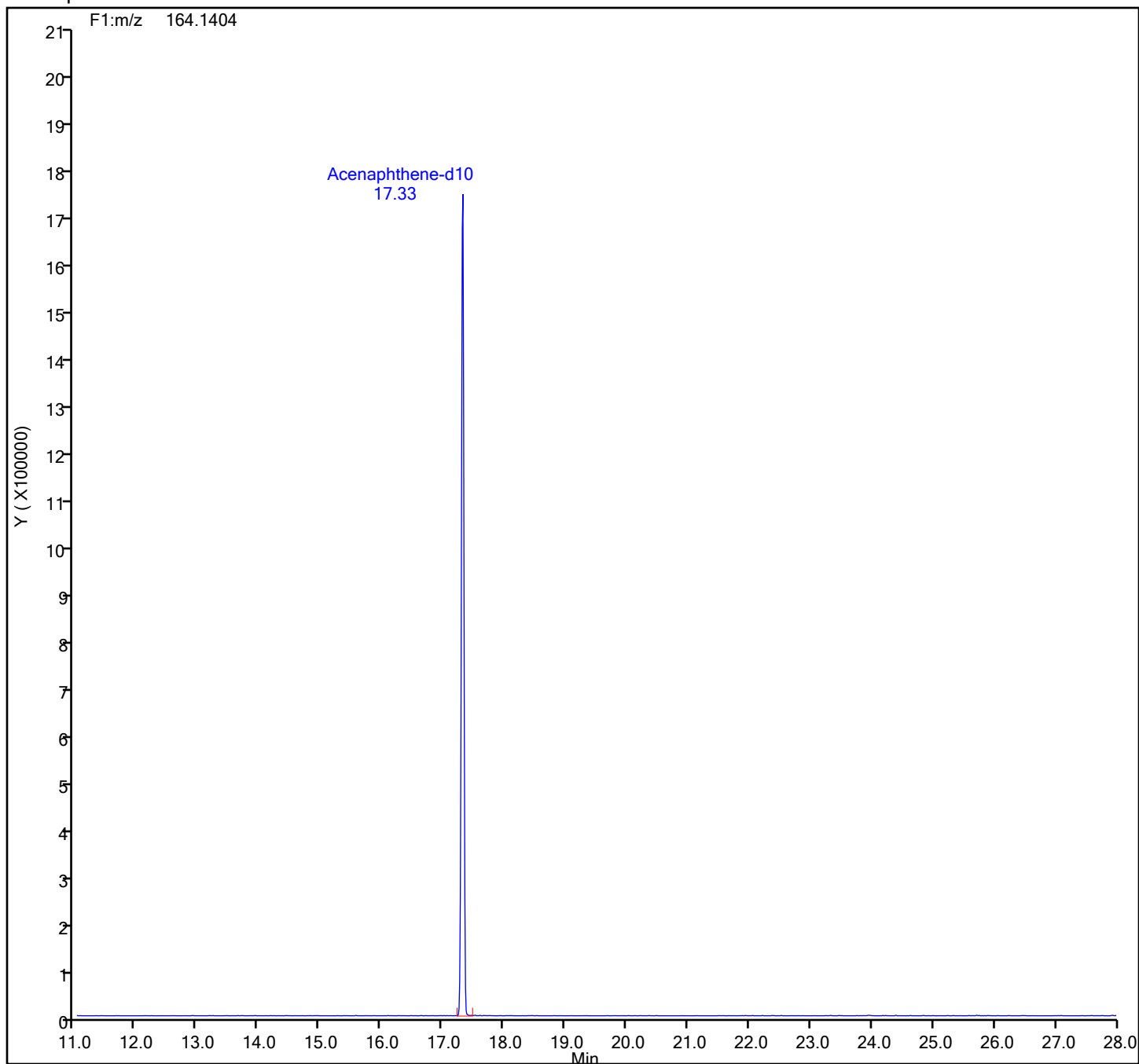
13C6-Acenaphthylene Standards



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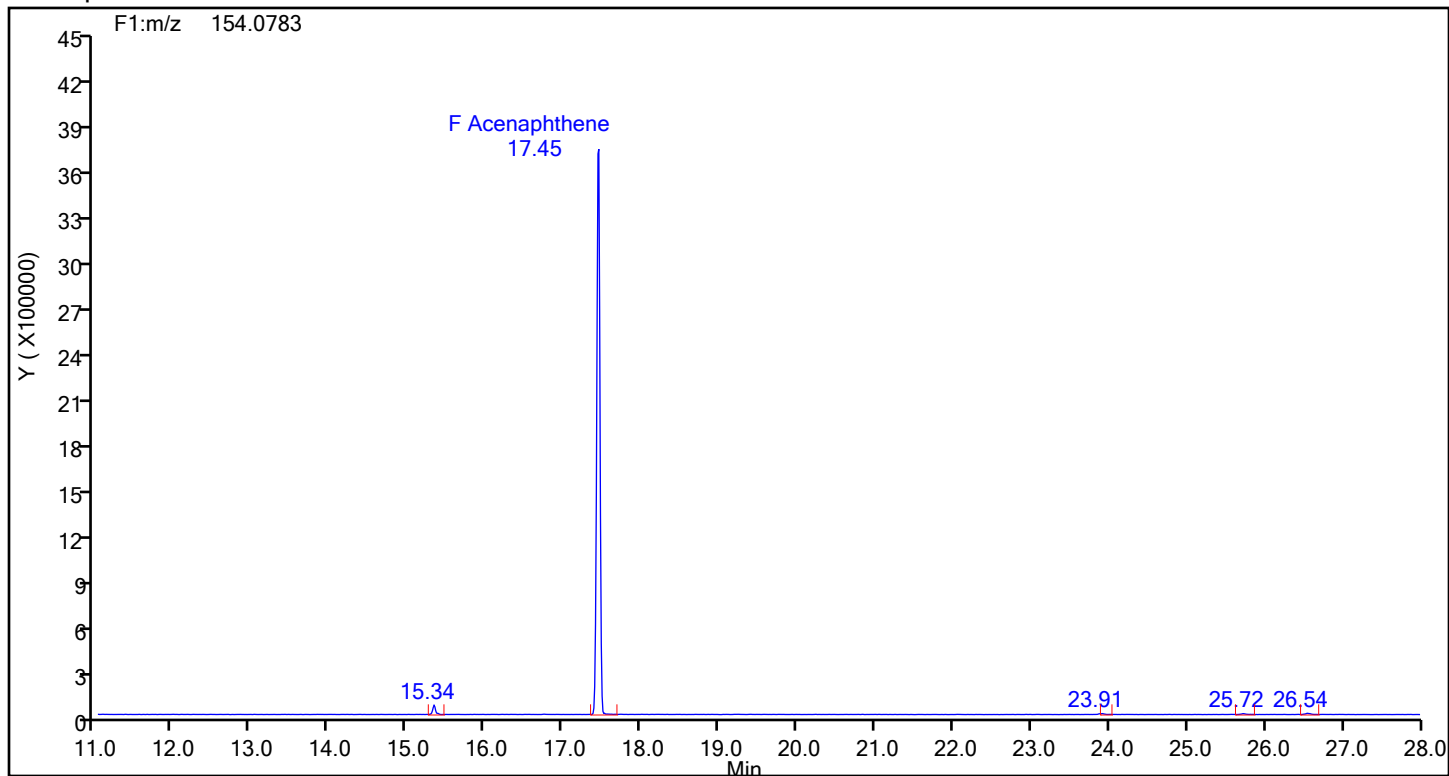
Acenaphthene-d10 Standards



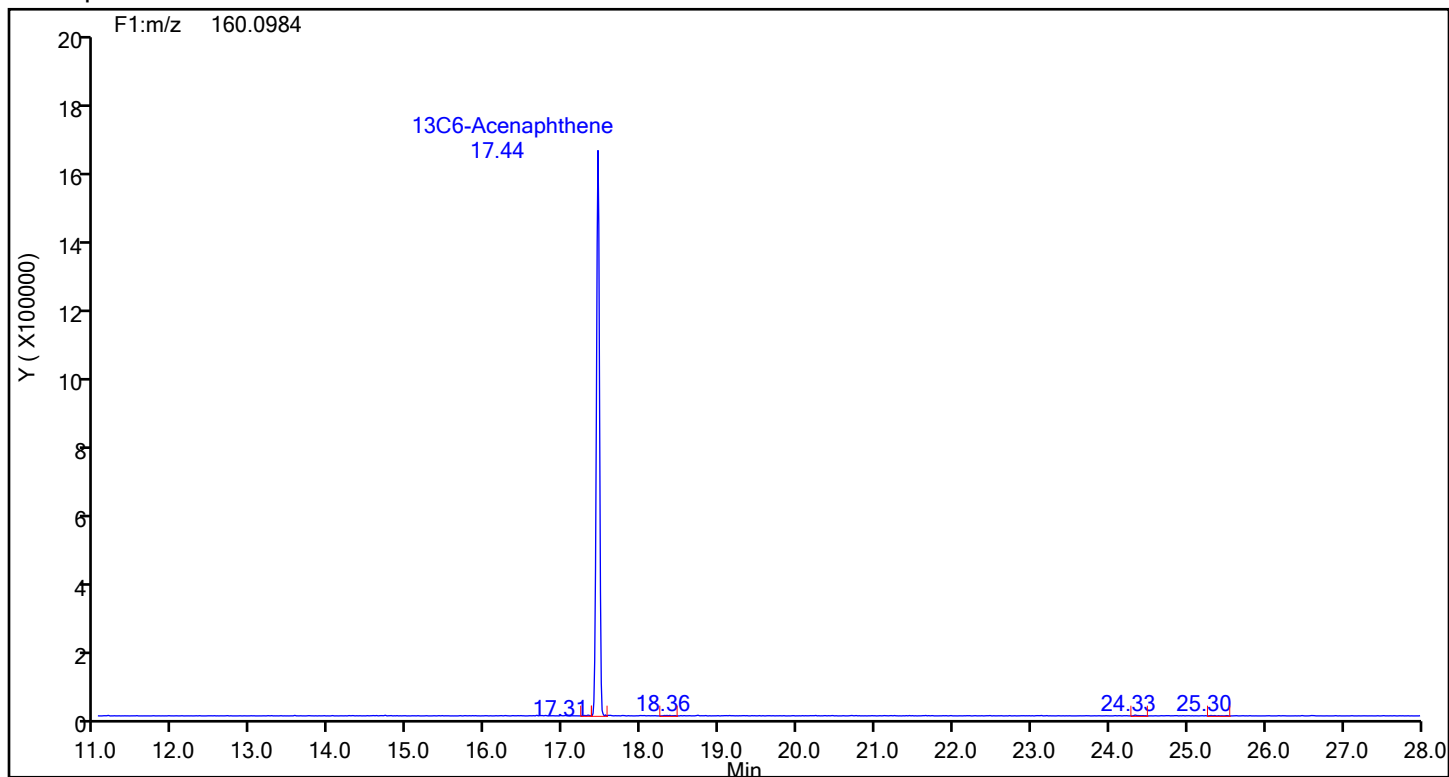
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Acenaphthene



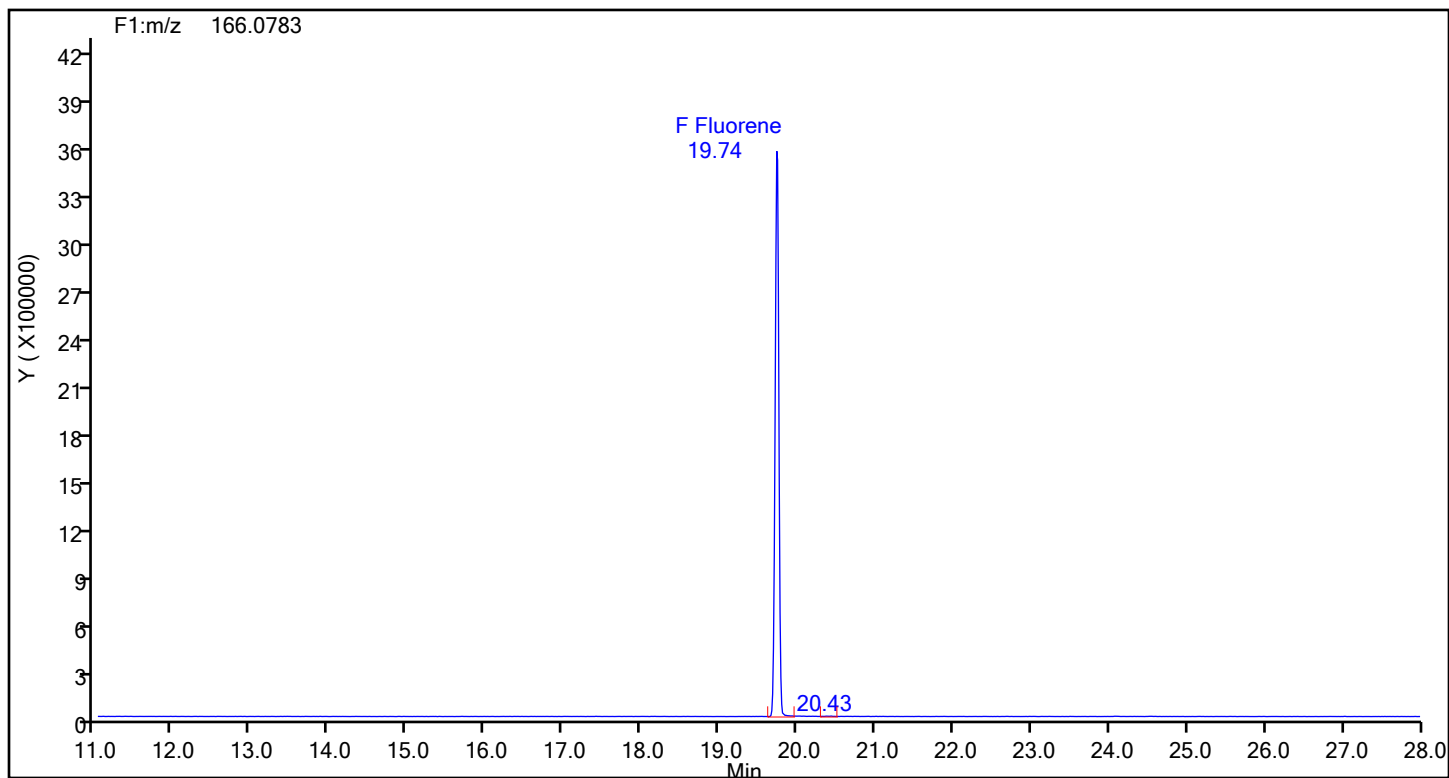
Acenaphthene Standards



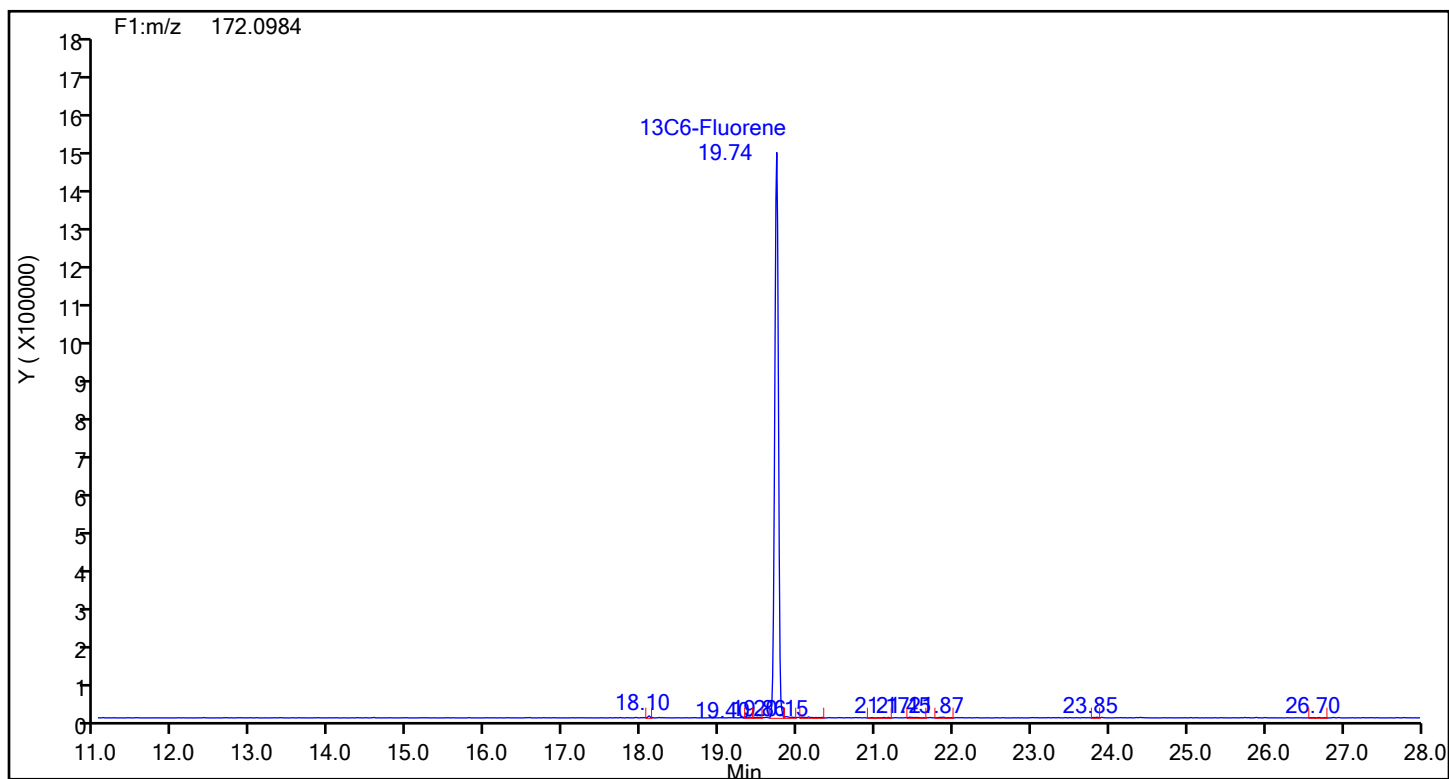
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

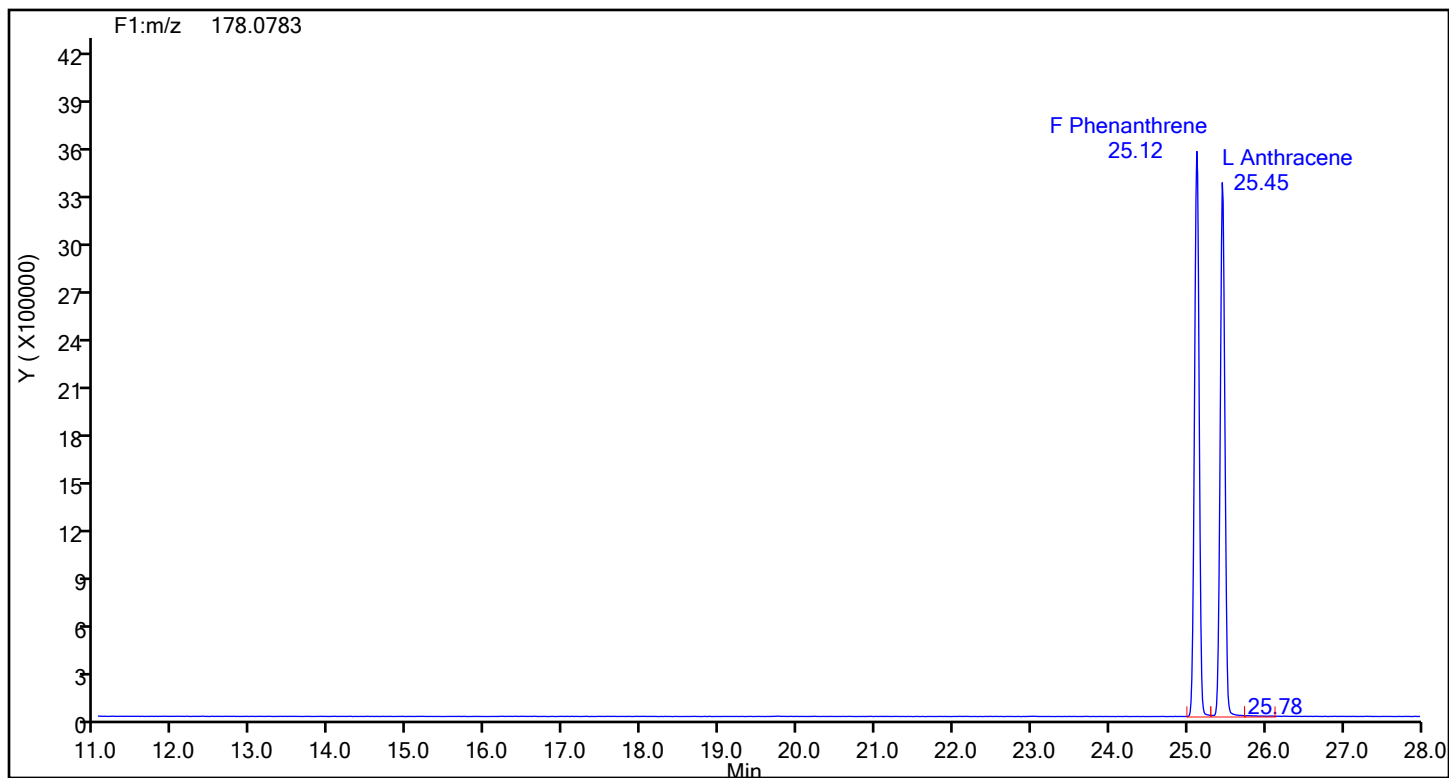


Fluorene Standards

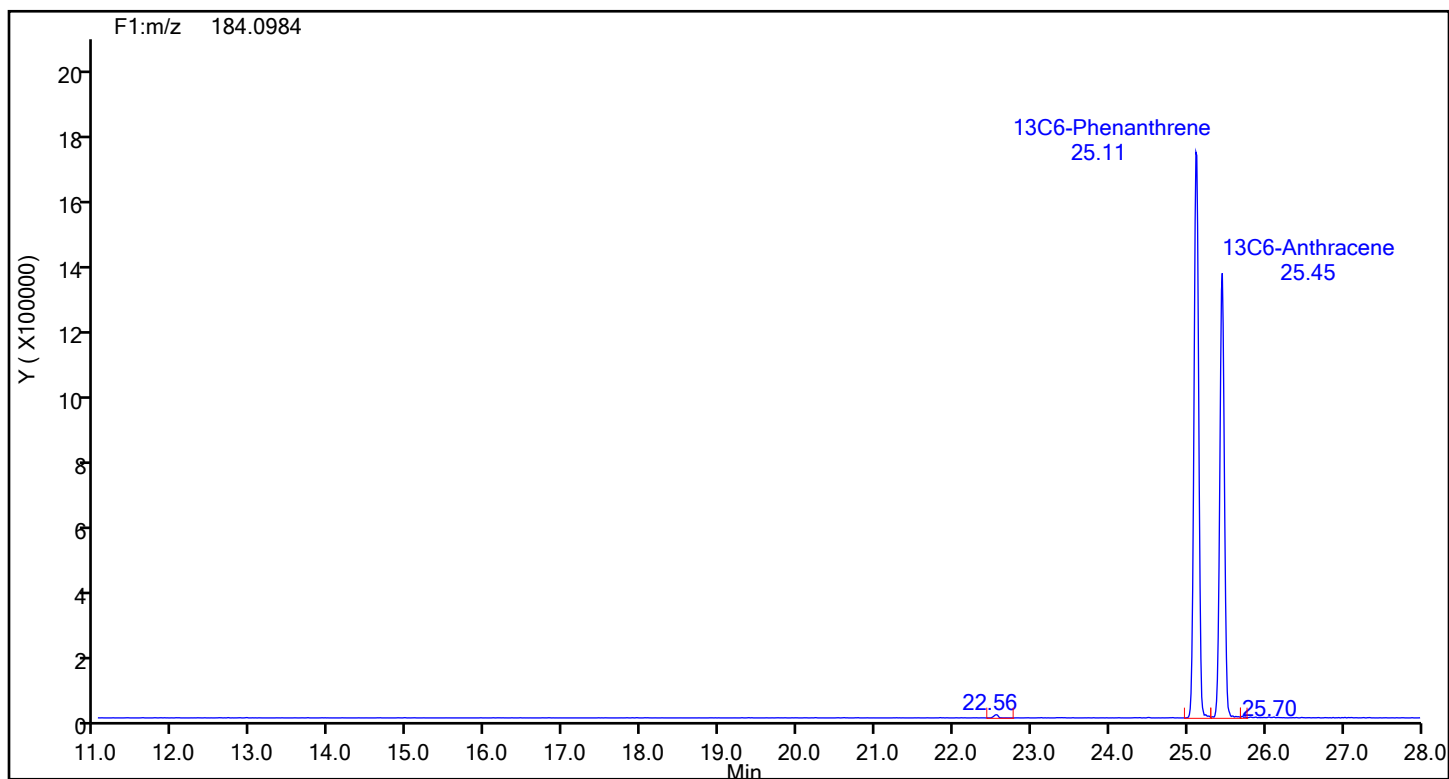


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Phenanthrene

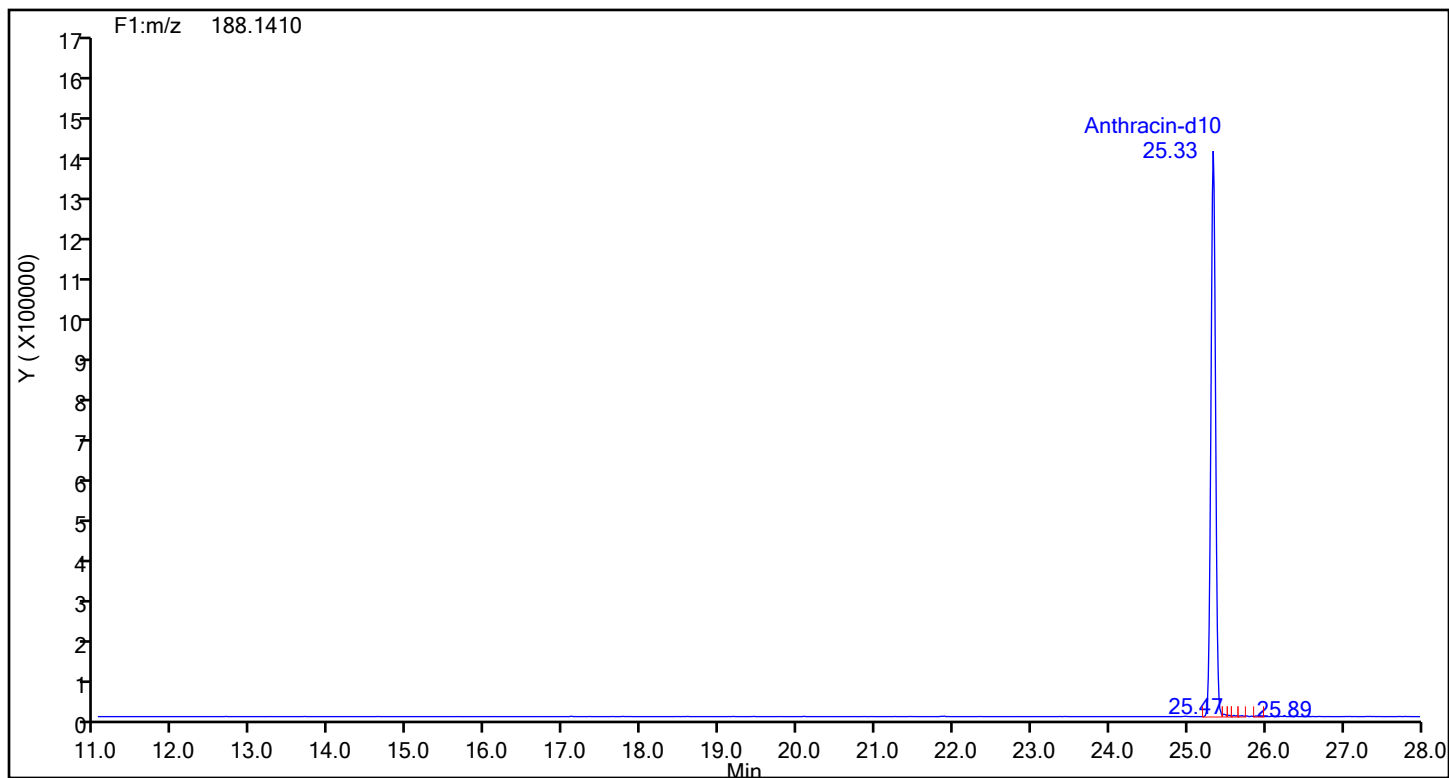


Phenanthrene Standards

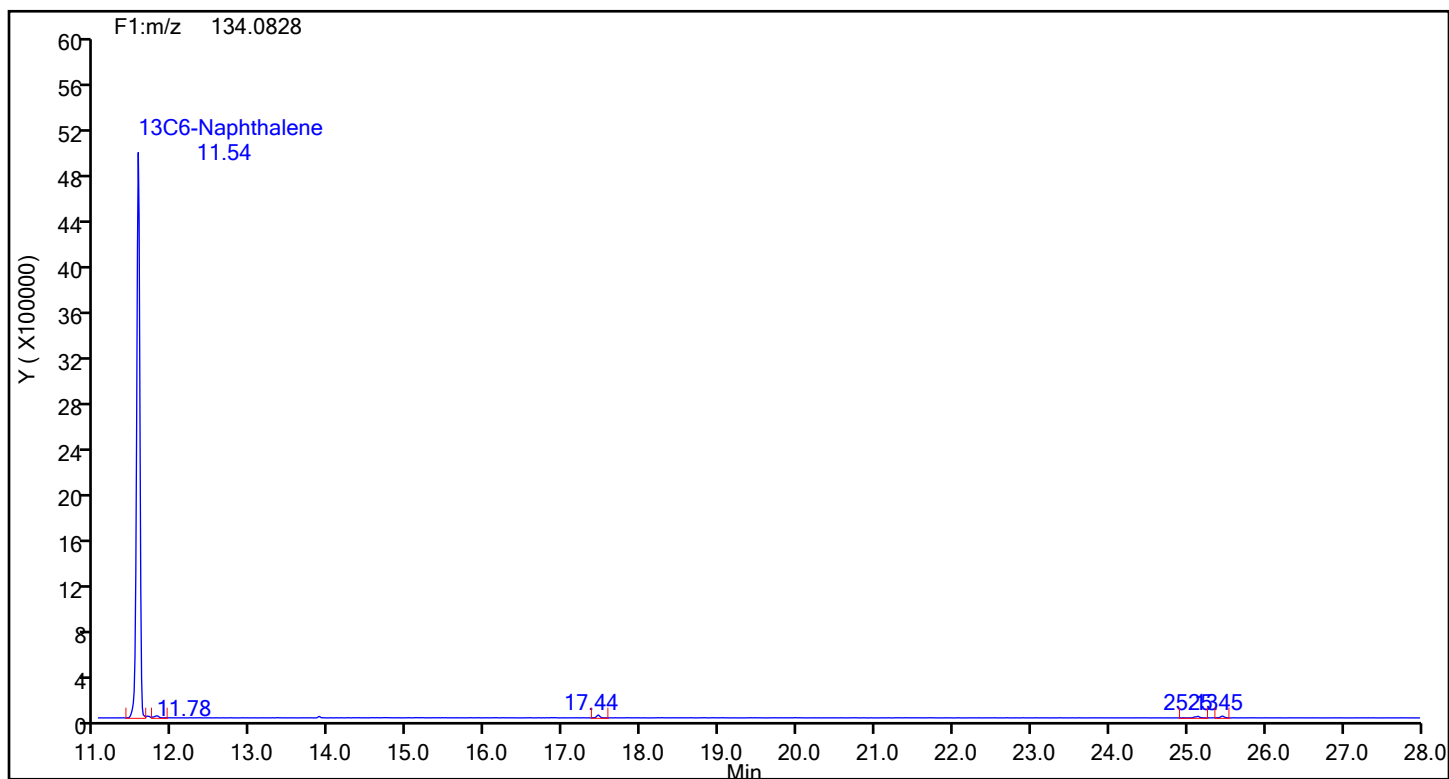


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Anthracin-d10

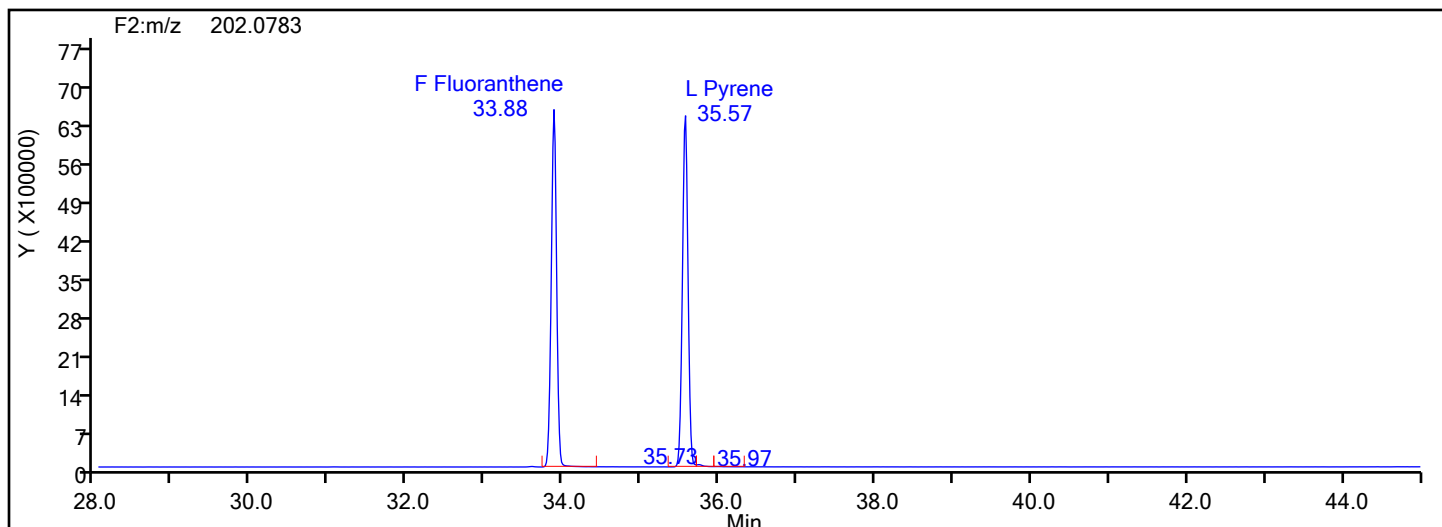


Anthracin-d10 Standards

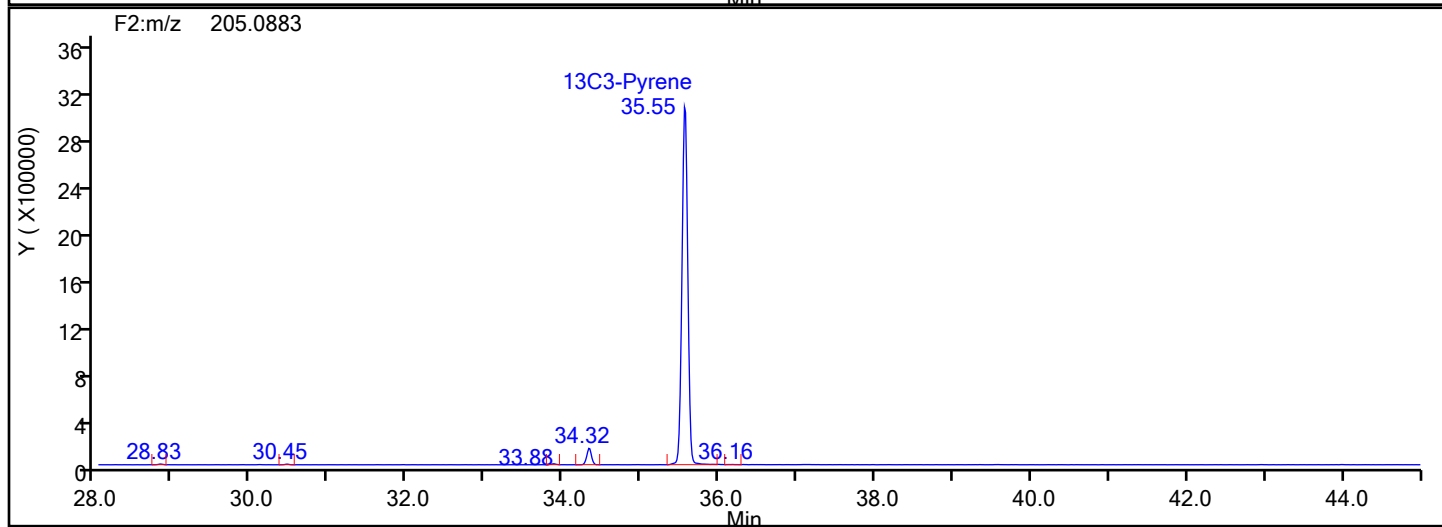
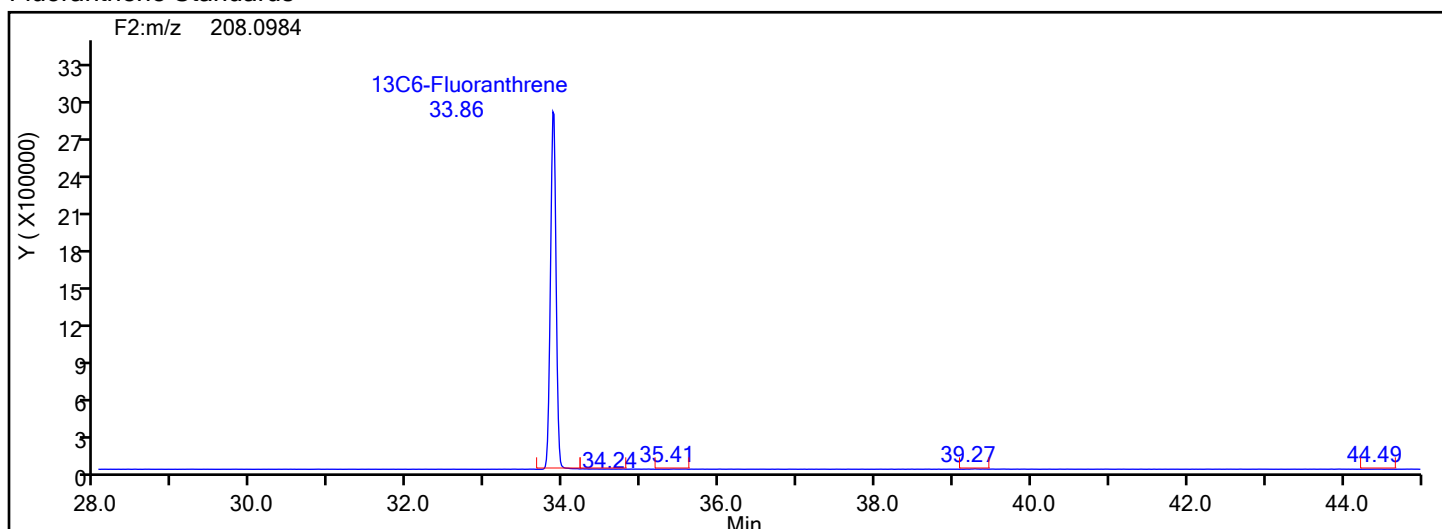


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Fluoranthene



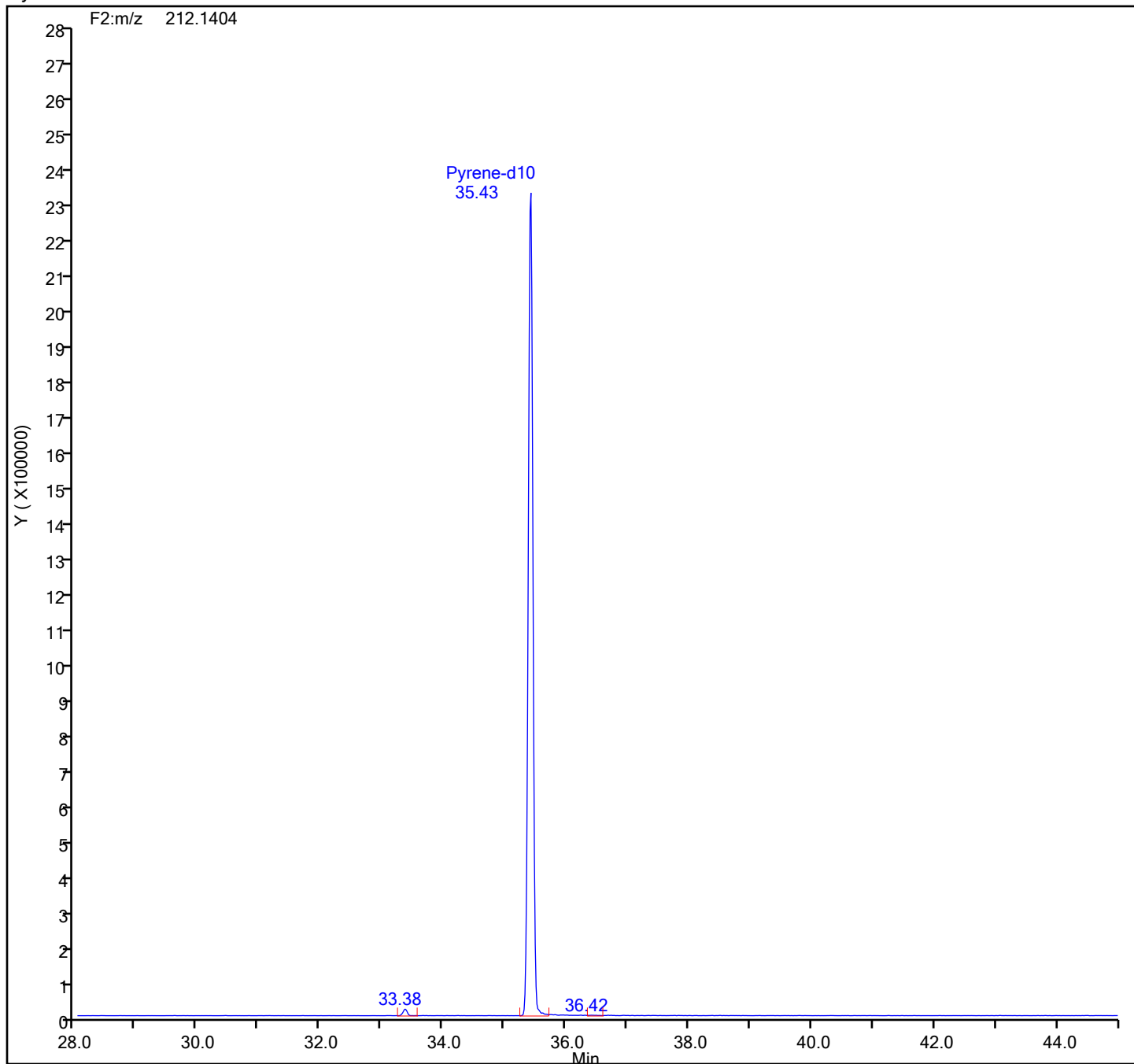
Fluoranthene Standards



Eurofins Knoxville

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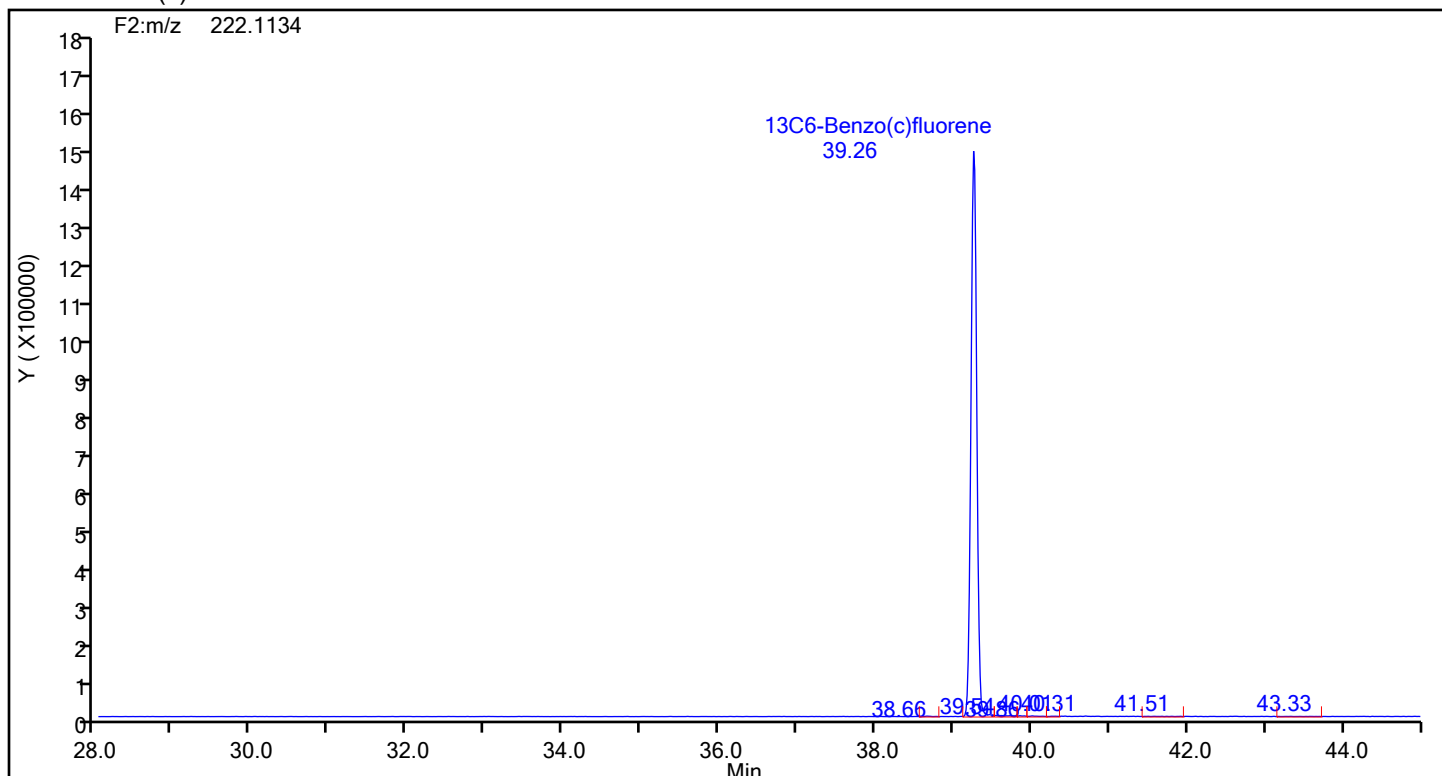
Pyrene-d10 Standards



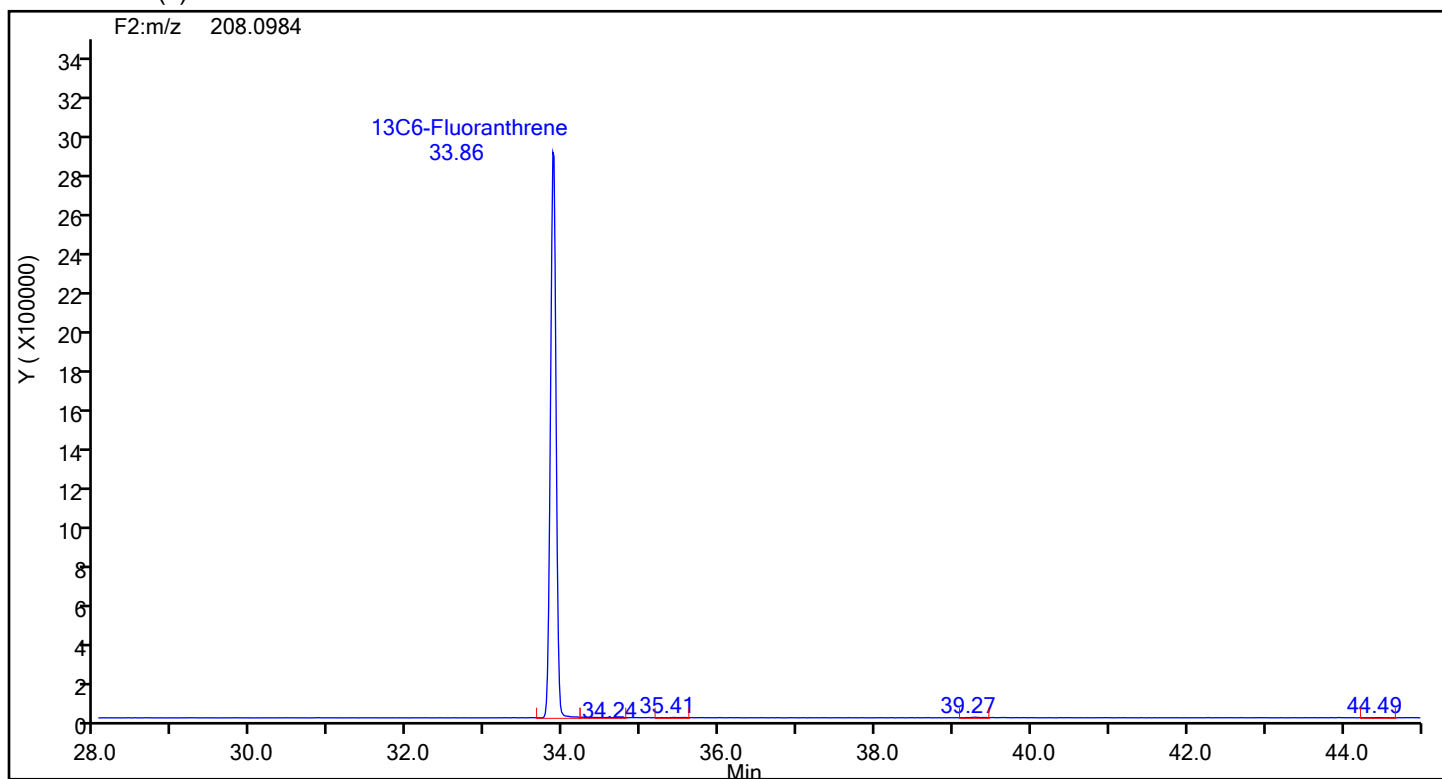
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



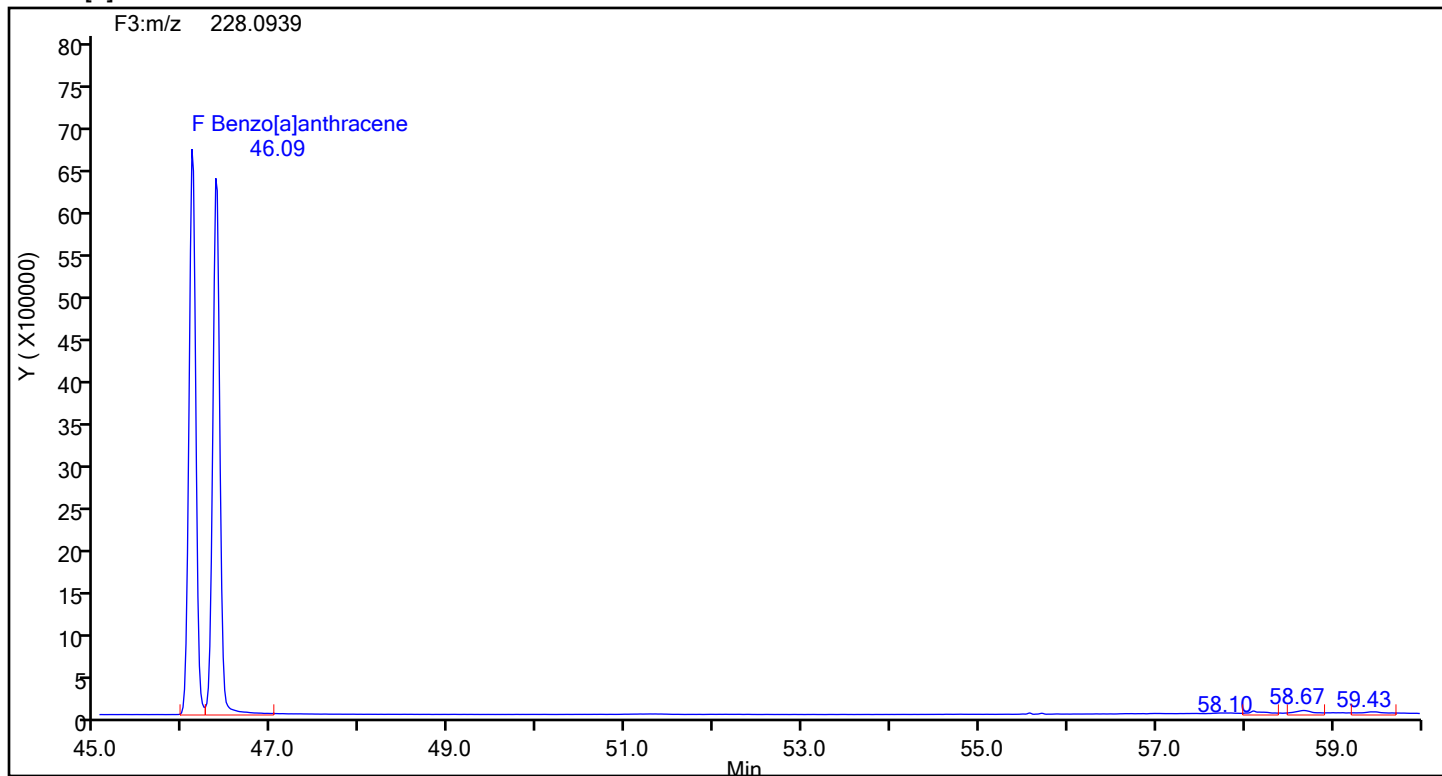
13C6-Benzo(c)fluorene Standards



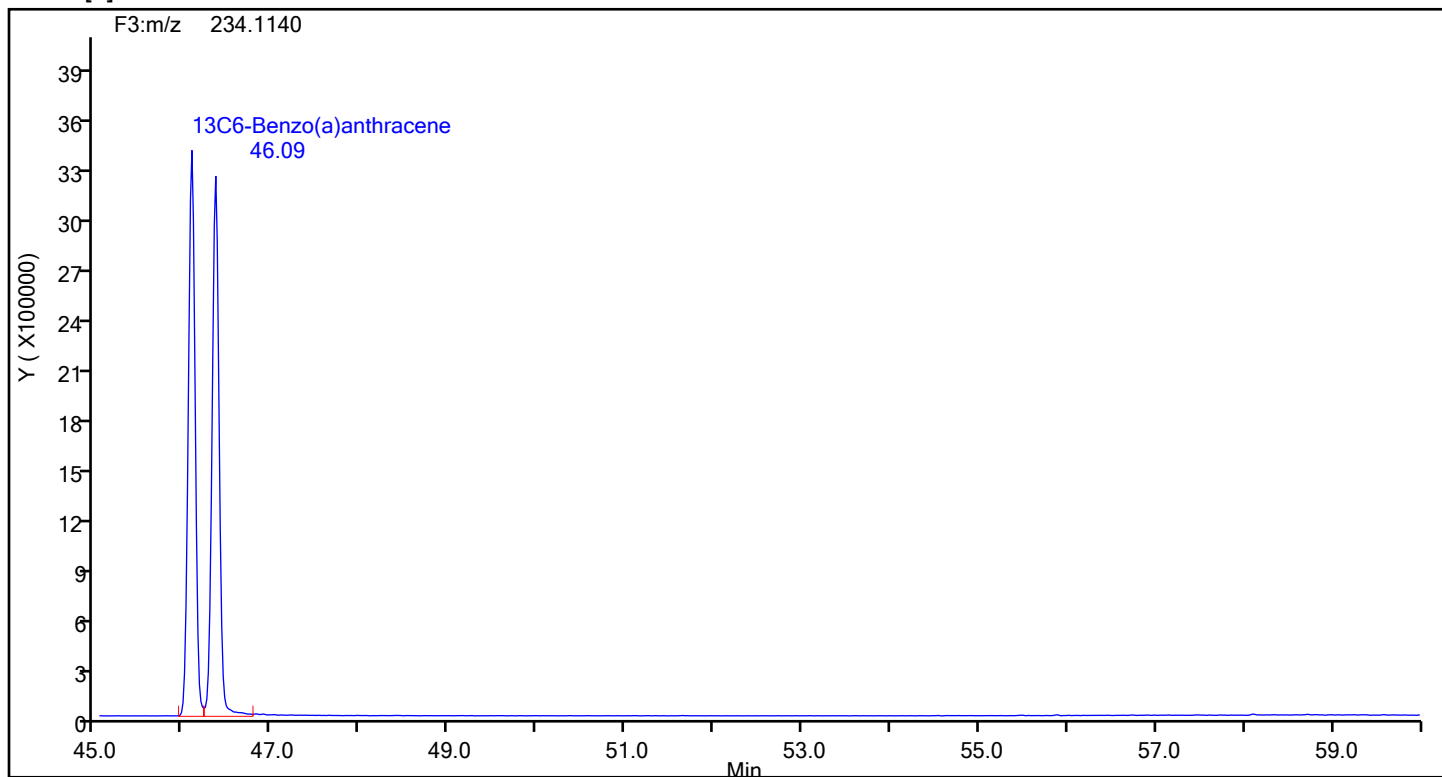
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



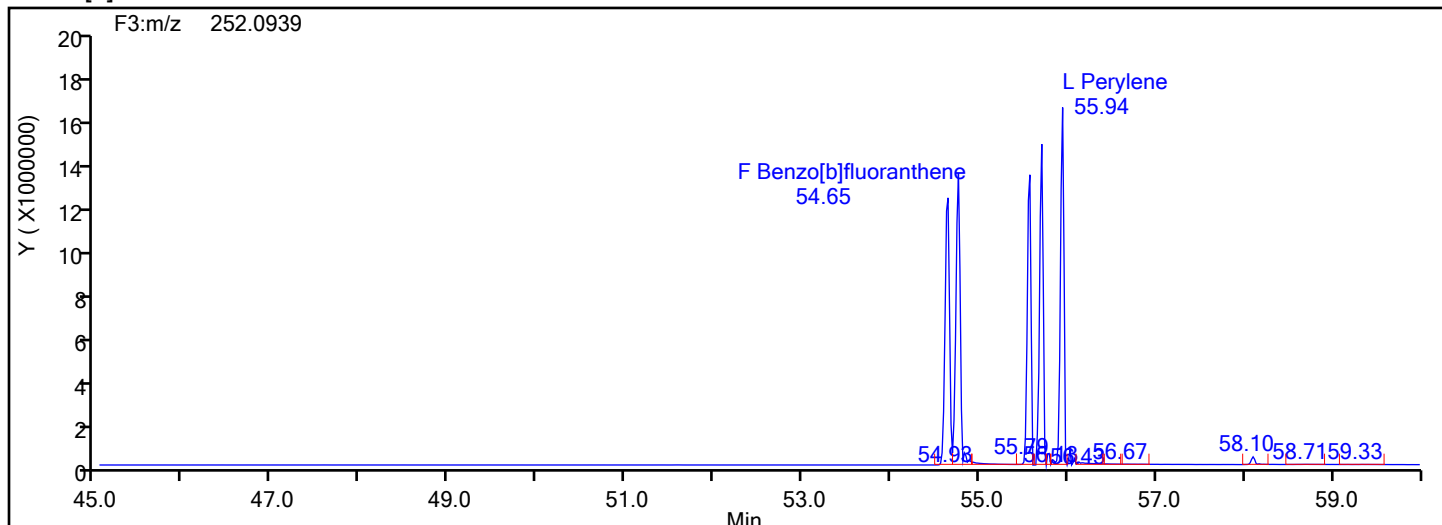
Benzo[a]anthracene Standards



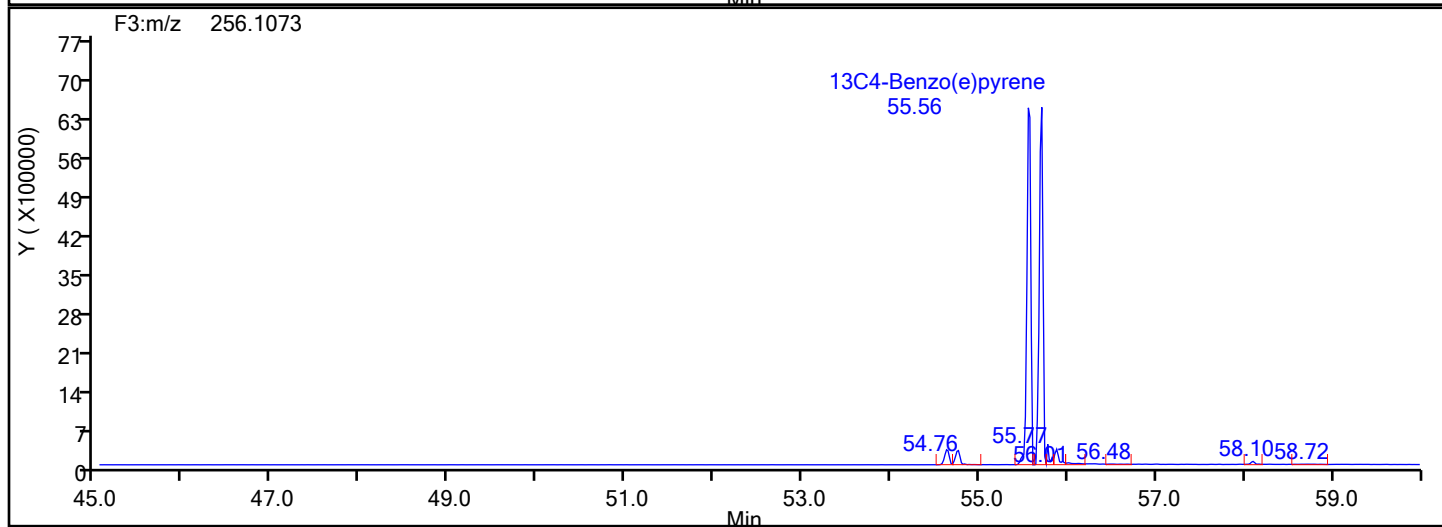
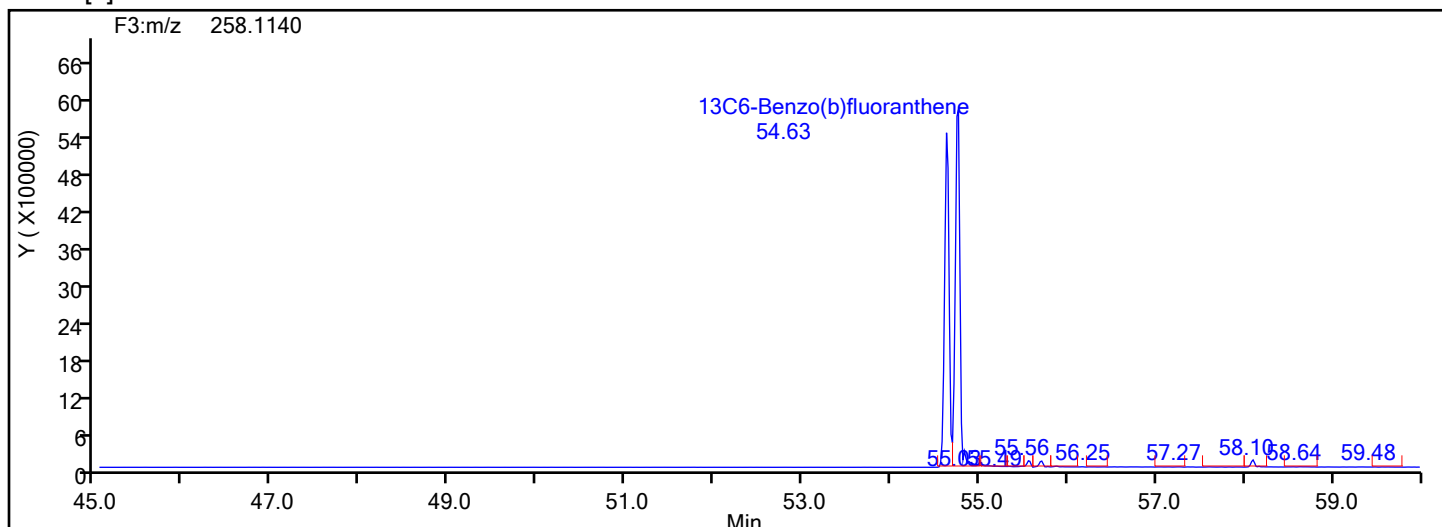
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

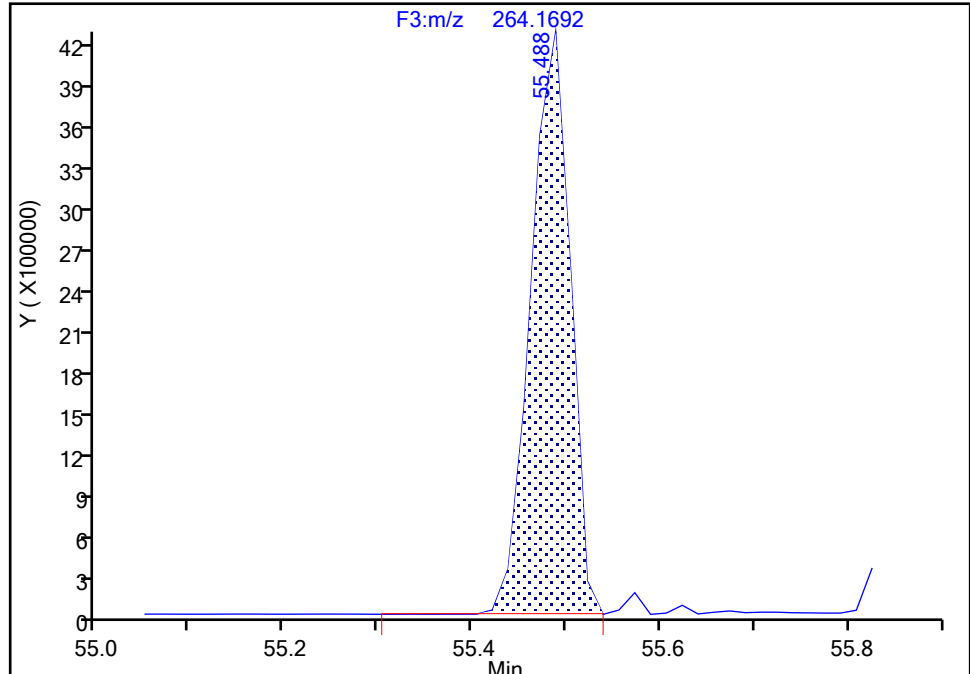
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Benzo(e)pyrene-d12, CAS: STL01910

Signal: 1

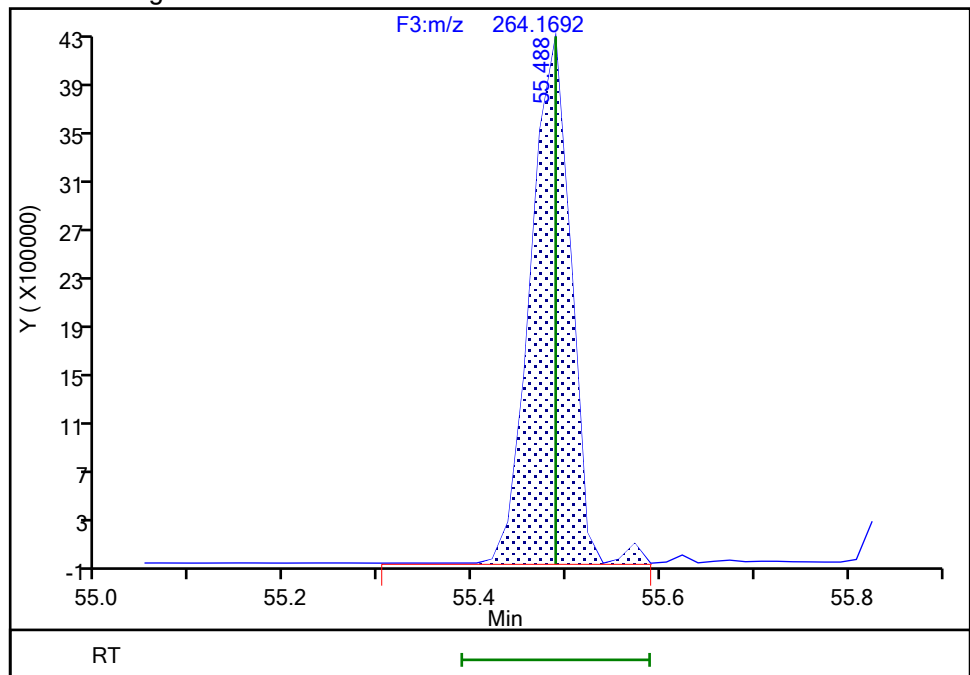
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Processing Integration Results



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Manual Integration Results



Reviewer: V4XA, 21-Jun-2024 02:05:12 -04:00:00 (UTC)

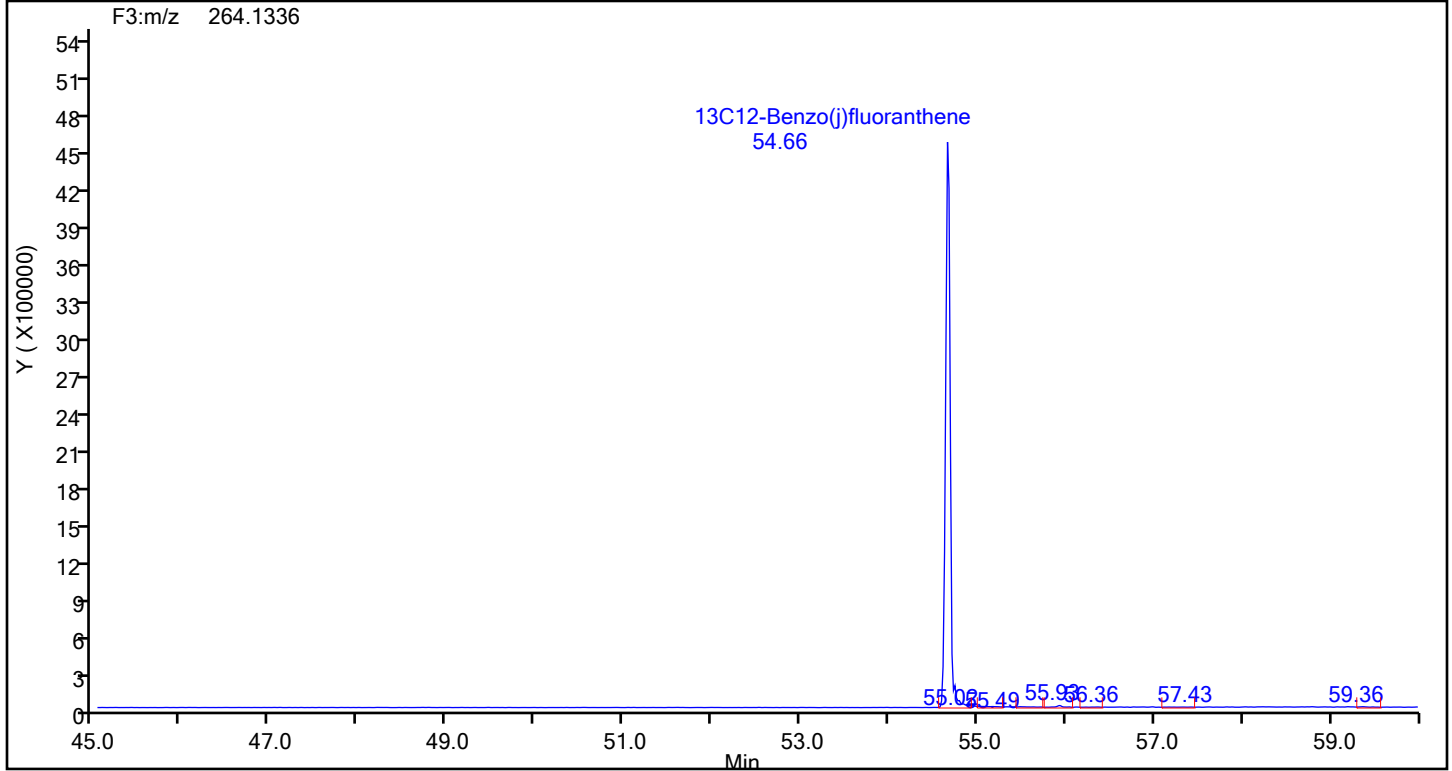
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Audit Reason: Baseline

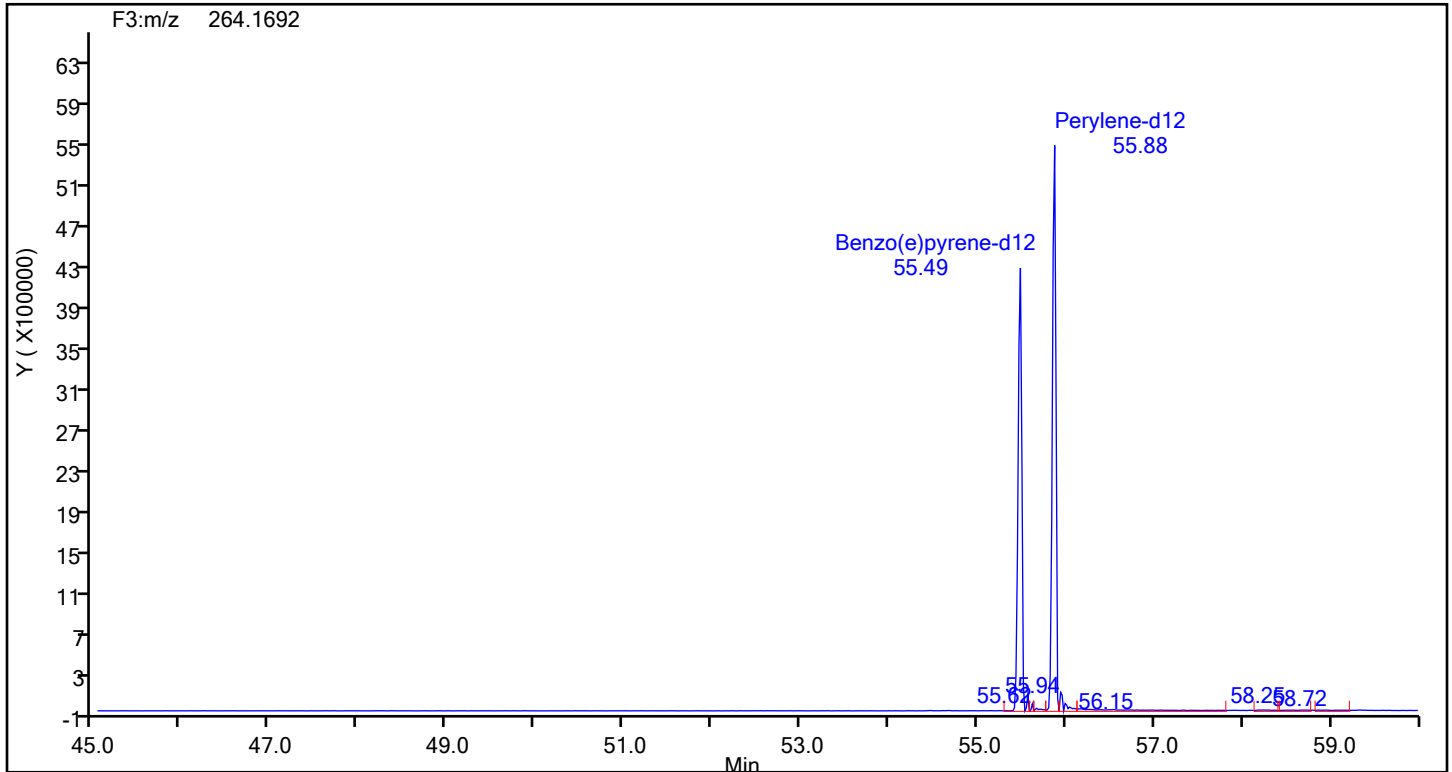
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Worklist#: 87921 Sample Line#: 1
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13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

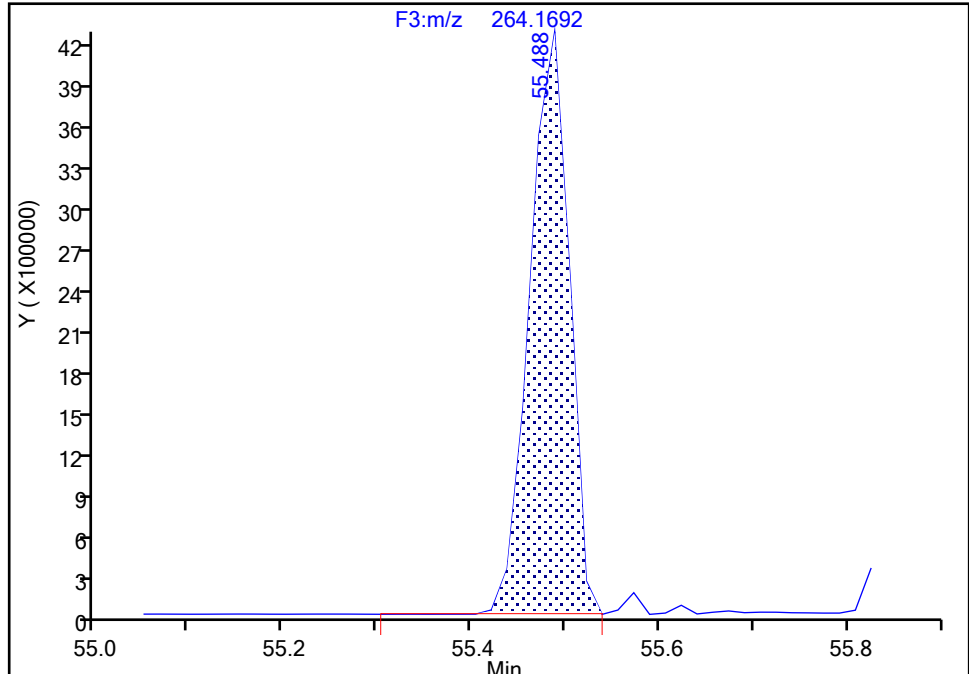
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Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo(e)pyrene-d12, CAS: STL01910

Signal: 1

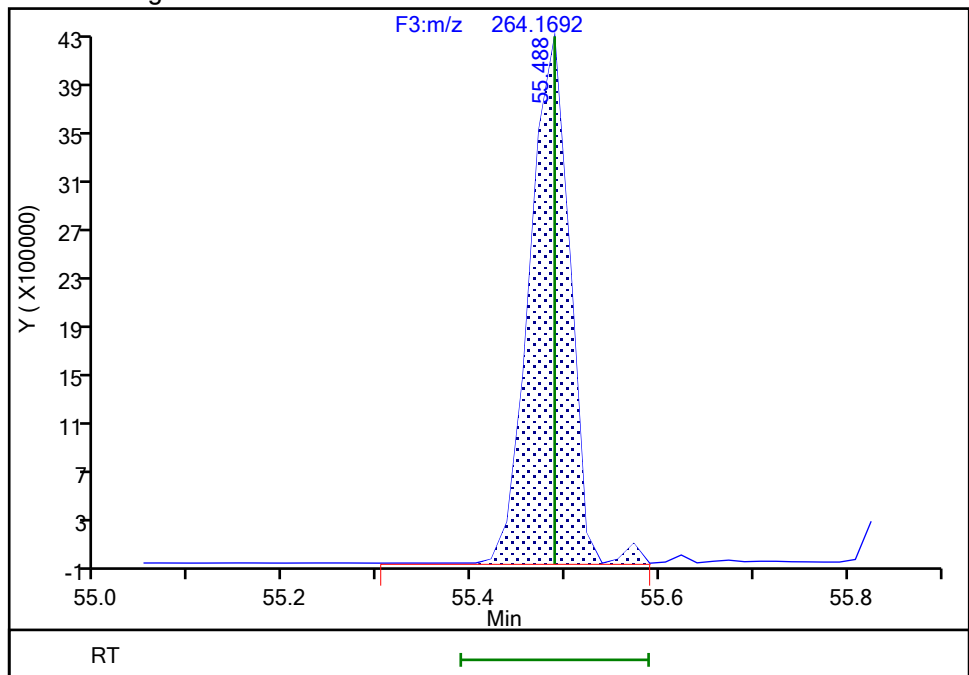
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Processing Integration Results



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Manual Integration Results



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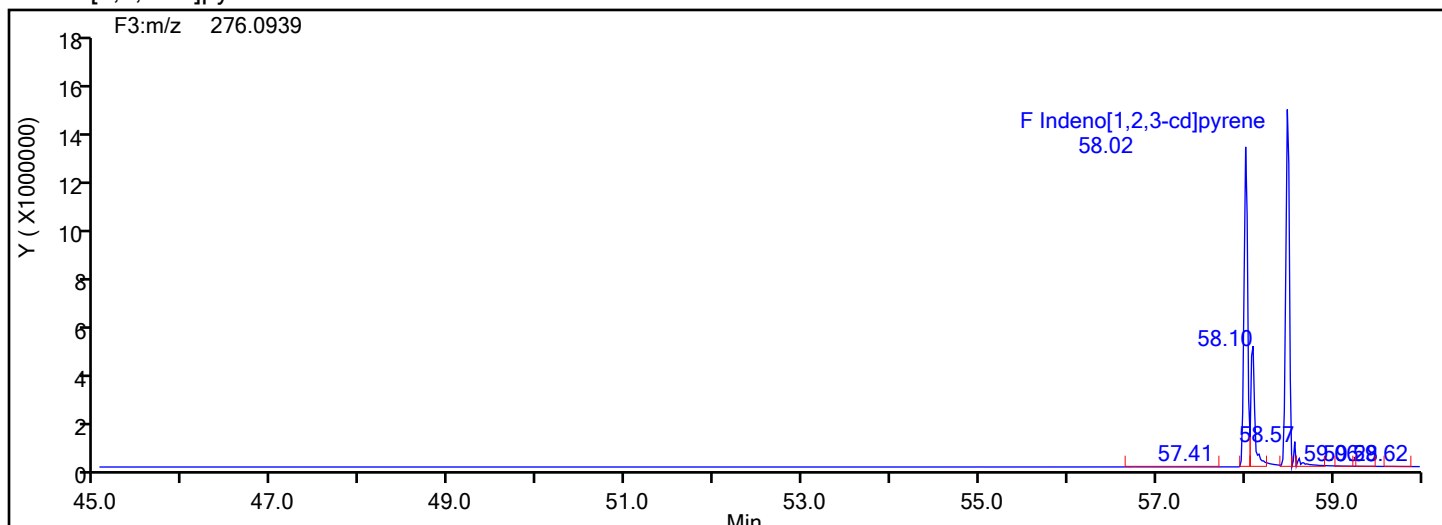
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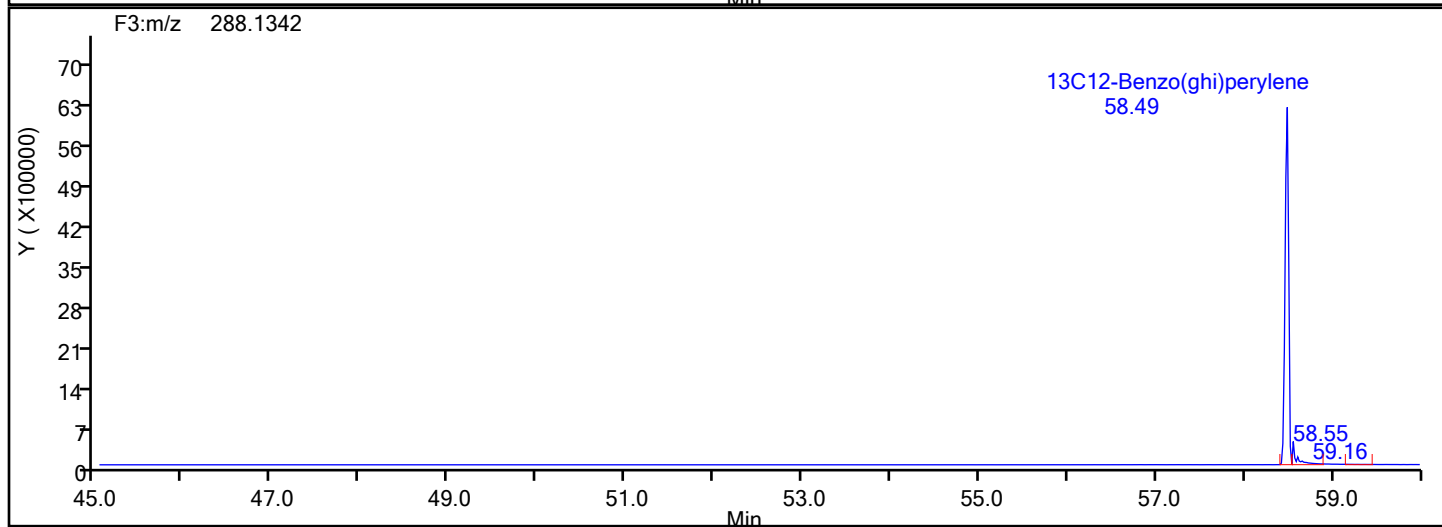
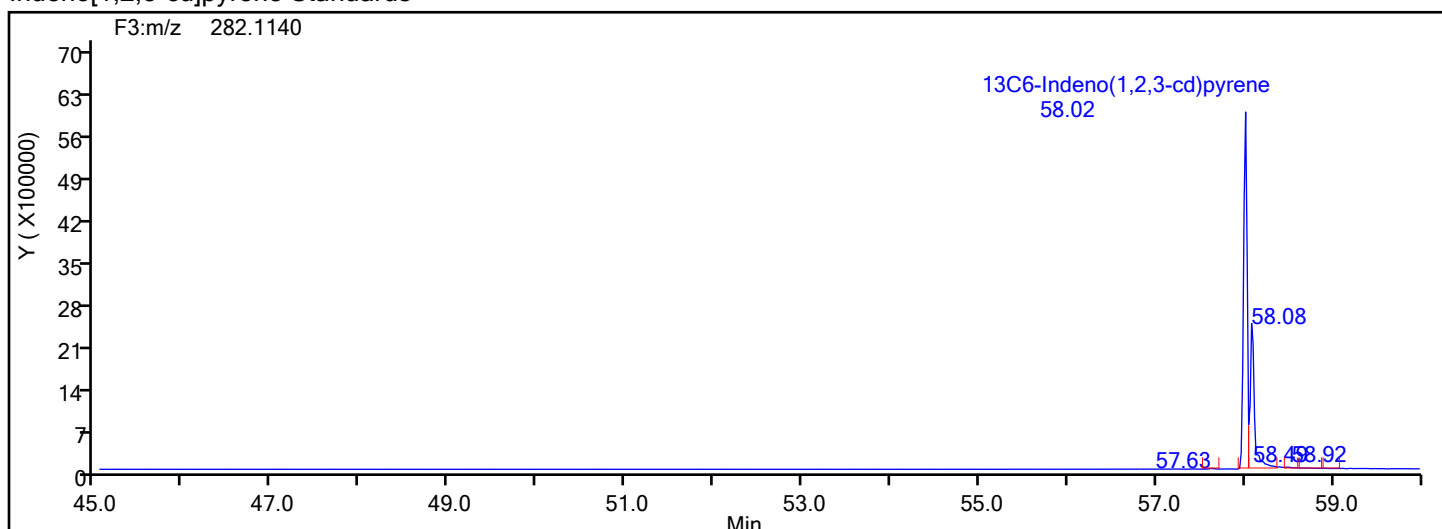
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Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
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Worklist#: 87921 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



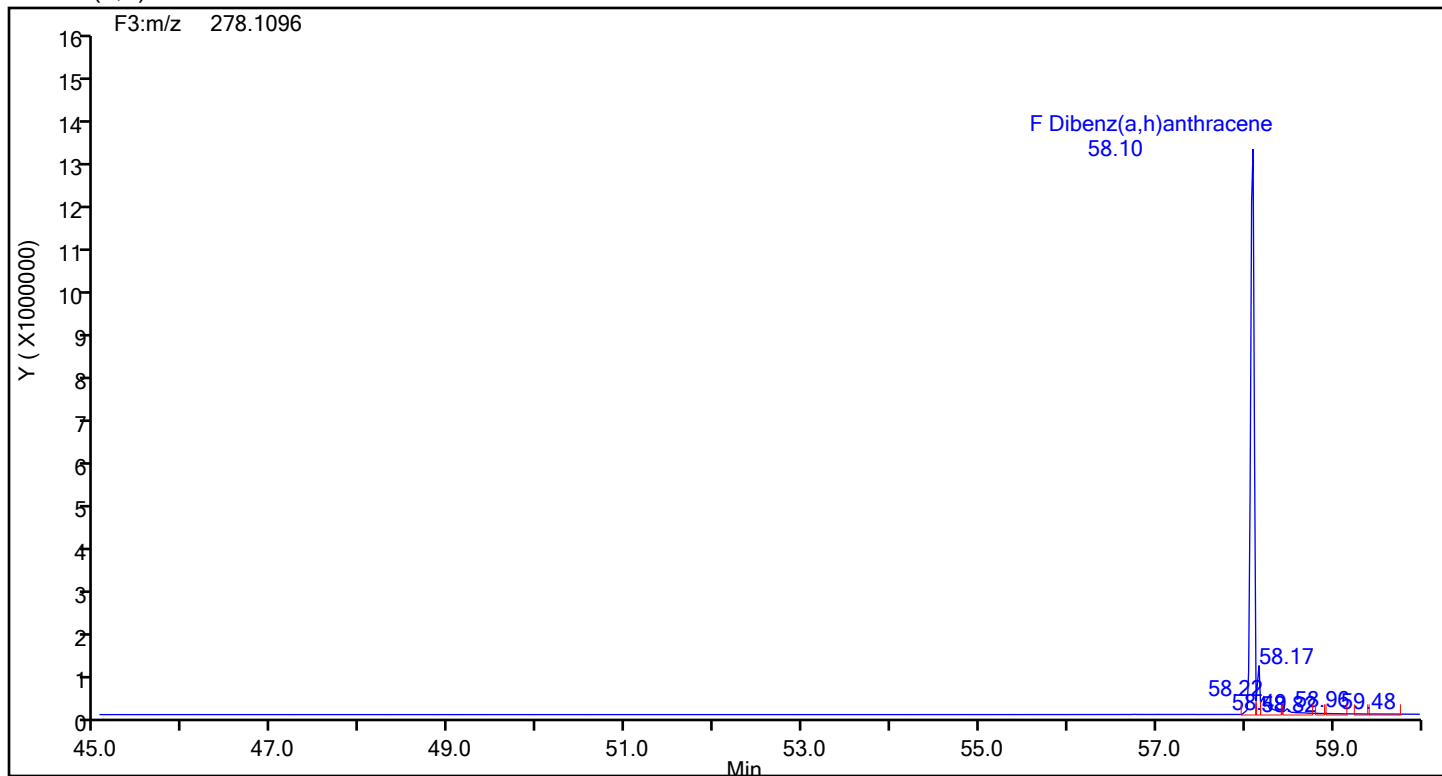
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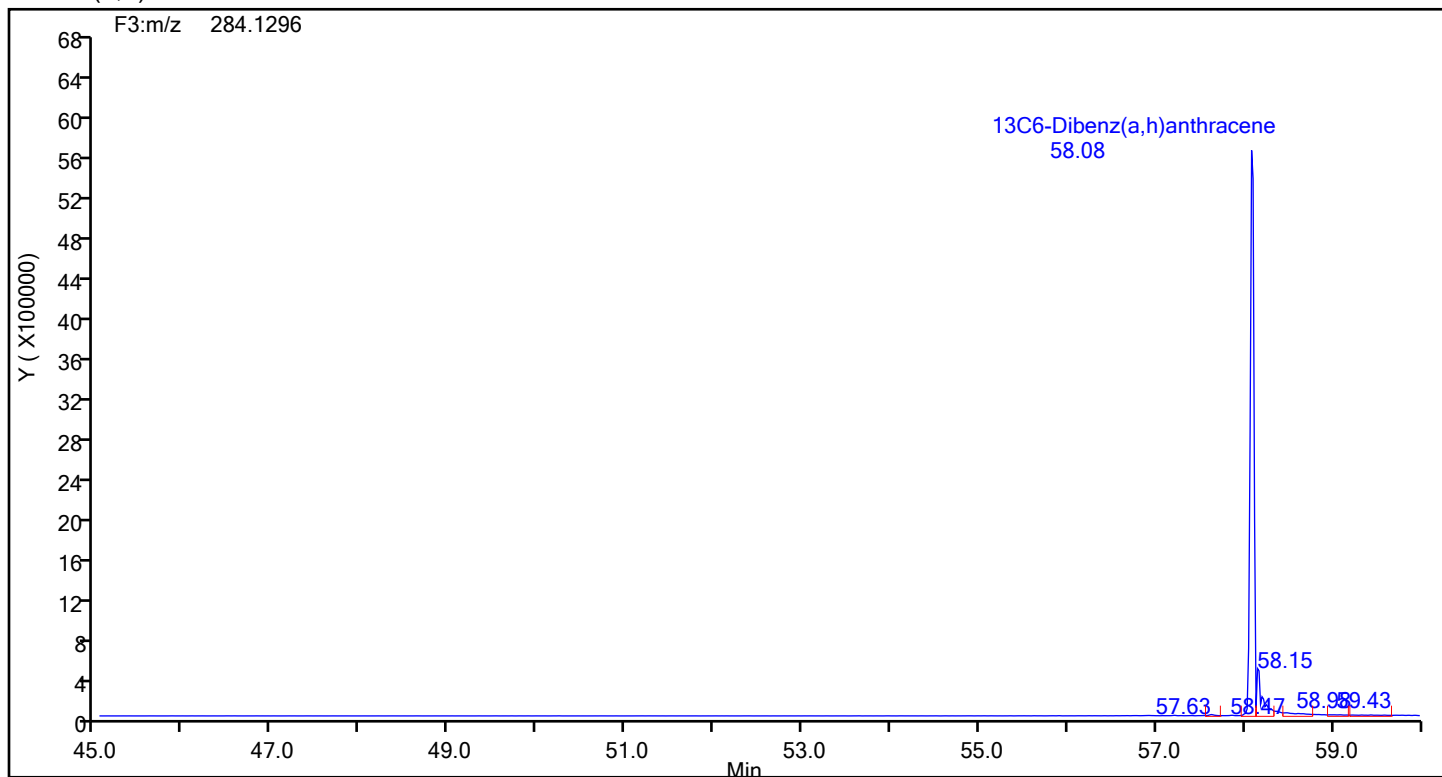
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



FORM VII
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: CCV 140-87947/1 Calibration Date: 06/21/2024 16:12

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240621c1c_20240621160938.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.154		179	200	-10.5	25.0
2-Methylnaphthalene	AveID	1.279	1.162		182	200	-9.1	25.0
Acenaphthylene	AveID	2.366	2.144		181	200	-9.4	25.0
Acenaphthene	AveID	1.270	1.130		178	200	-11.0	25.0
Fluorene	AveID	1.253	1.205		192	200	-3.8	25.0
Phenanthrene	AveID	1.104	1.016		184	200	-8.0	25.0
Anthracene	AveID	1.359	1.237		182	200	-8.9	25.0
Fluoranthene	AveID	1.151	1.071		186	200	-7.0	25.0
Pyrene	AveID	1.065	1.000		188	200	-6.2	25.0
Benzo[a]anthracene	AveID	0.9739	0.9769		201	200	0.3	25.0
Chrysene	AveID	0.9815	0.9853		201	200	0.4	25.0
Benzo[b]fluoranthene	AveID	1.125	1.098		195	200	-2.4	25.0
Benzo[k]fluoranthene	AveID	1.127	1.014		180	200	-10.1	25.0
Benzo[e]pyrene	AveID	1.001	0.9388		188	200	-6.2	25.0
Benzo[a]pyrene	AveID	1.113	1.119		201	200	0.5	25.0
Perylene	AveID	1.431	1.443		202	200	0.9	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.064		189	200	-5.4	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.074		190	200	-5.0	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.222		190	200	-4.8	25.0
13C6-Naphthalene	Ave	3.375	2.664		78.9	100	-21.1	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.418		88.5	100	-11.5	30.0
13C6-Acenaphthylene	Ave	1.652	1.698		103	100	2.8	30.0
13C6-Acenaphthene	Ave	0.9792	0.9861		101	100	0.7	30.0
13C6-Fluorene	Ave	0.8898	0.9037		102	100	1.6	30.0
13C6-Phenanthrene	Ave	0.5724	0.6452		113	100	12.7	30.0
13C6-Anthracene	Ave	0.4523	0.5225		116	100	15.5	30.0
13C6-Fluoranthrene	Ave	1.199	1.188		99.0	100	-1.0	30.0
13C3-Pyrene	Ave	1.351	1.292		95.6	100	-4.4	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.506		99.2	100	-0.8	30.0
13C6-Chrysene	Ave	1.629	1.508		92.6	100	-7.4	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.488		102	100	1.8	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.702		97.2	100	-2.8	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.567		95.7	100	-4.3	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.460		94.1	100	-5.9	30.0
Perylene-d12	Ave	1.192	1.205		101	100	1.1	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.228		120	100	20.2	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.187		113	100	12.5	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.270		99.6	100	-0.4	30.0

Resolution Check Report (DFS SN: 3439)

Date: 21 Jun 2024 15:08
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

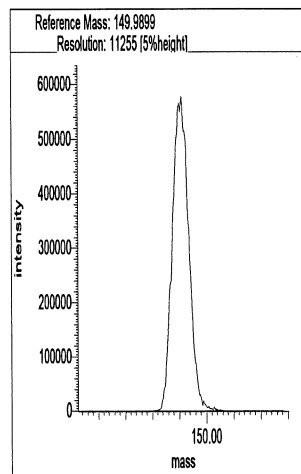
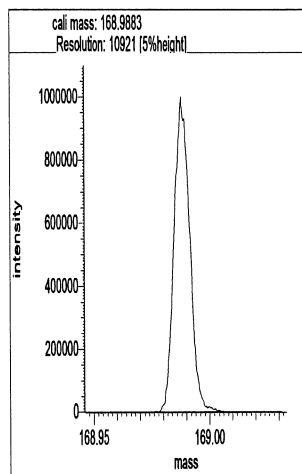
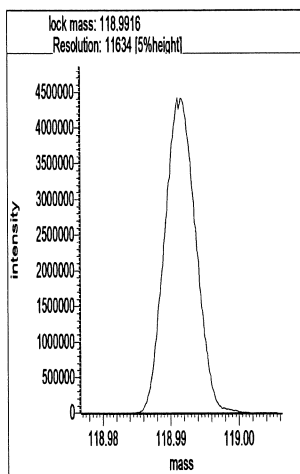
-d3240621r3

Segment 1

Lock mass 118.9916 [m/z] Resolution: 11634 [5%height]

Cali. mass 168.9883 [m/z] Resolution: 10921 [5%height]

Ref. mass 149.9899 [m/z] Resolution: 11255 [5%height]

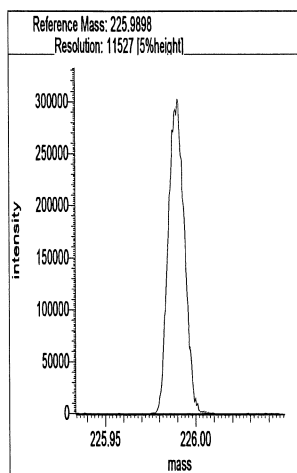
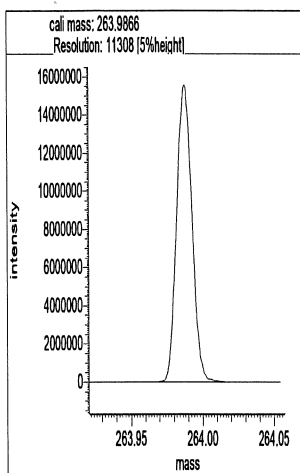
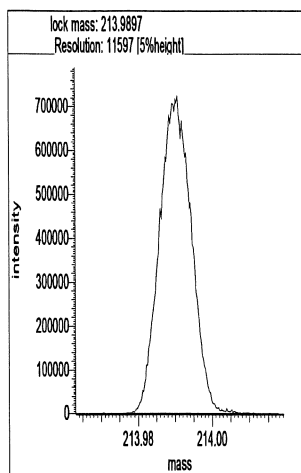


Segment 2

Lock mass 213.9897 [m/z] Resolution: 11597 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 11308 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 11527 [5%height]

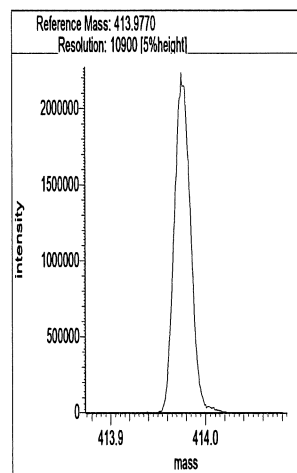
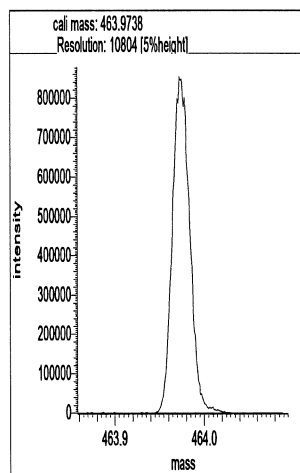
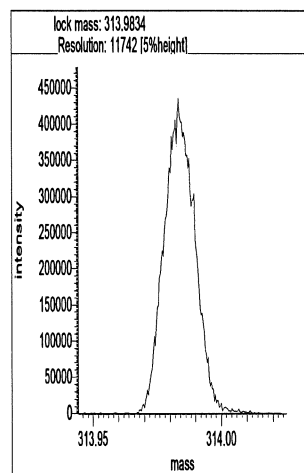


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11742 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 10804 [5%height]

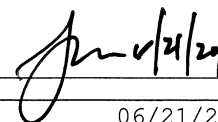
Ref. mass 413.9770 [m/z] Resolution: 10900 [5%height]



Reports

15:50:46: Peak matching procedure started
15:50:47:
15:50:47: Reference mass: 263.98656
15:50:48: Sample mass: 414.0
15:50:48:
15:50:49: Finding reference mass
15:50:50: Finding sample mass
15:50:50:
15:50:56: [1] 413.9769 amu, mean: 413.9769
15:50:59: [2] 413.9761 amu, mean: 413.9765 SD: 0.59 mmu or: 1.42 ppm
15:51:02: [3] 413.9768 amu, mean: 413.9766 SD: 0.45 mmu or: 1.09 ppm
15:51:05: [4] 413.9770 amu, mean: 413.9767 SD: 0.41 mmu or: 0.98 ppm
15:51:08: [5] 413.9764 amu, mean: 413.9766 SD: 0.38 mmu or: 0.91 ppm
15:51:12: [6] 413.9758 amu, mean: 413.9765 SD: 0.49 mmu or: 1.18 ppm
15:51:15: [7] 413.9761 amu, mean: 413.9764 SD: 0.47 mmu or: 1.12 ppm
15:51:18: [8] 413.9760 amu, mean: 413.9764 SD: 0.45 mmu or: 1.10 ppm
15:51:21: [9] 413.9761 amu, mean: 413.9764 SD: 0.43 mmu or: 1.05 ppm
15:51:25: [10] 413.9763 amu, mean: 413.9764 SD: 0.41 mmu or: 0.99 ppm
15:51:27: [11] 413.9765 amu, mean: 413.9764 SD: 0.39 mmu or: 0.94 ppm
15:51:28:
15:51:28: Stop requested. Please wait for procedure to finish.
15:51:28:
15:51:31:
15:51:31: Peakmatching stopped

Signature



Resolution Check Report (DFS SN: 3439)

Date: 22 Jun 2024 01:40
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

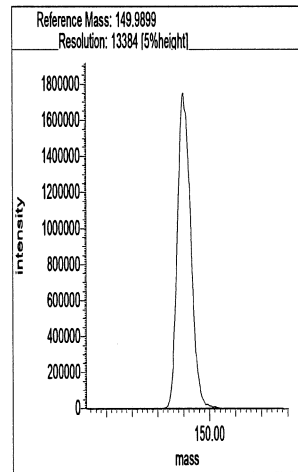
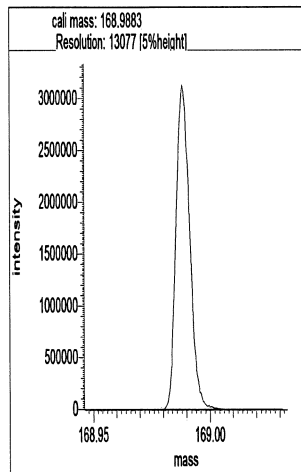
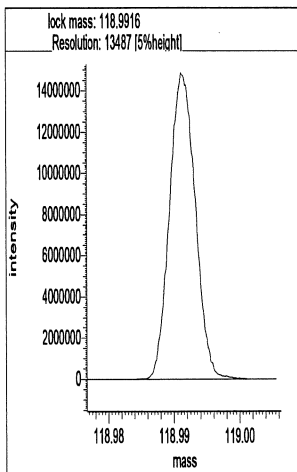
-d3240622r5

Segment 1

Lock mass 118.9916 [m/z] Resolution: 13487 [5%height]

Cali. mass 168.9883 [m/z] Resolution: 13077 [5%height]

Ref. mass 149.9899 [m/z] Resolution: 13384 [5%height]

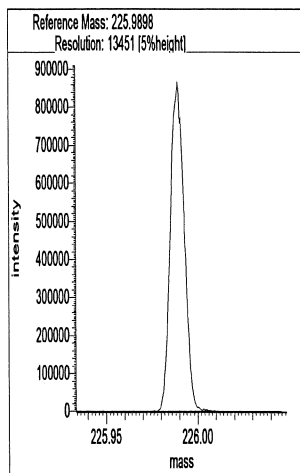
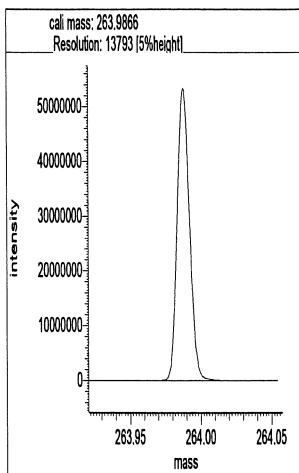
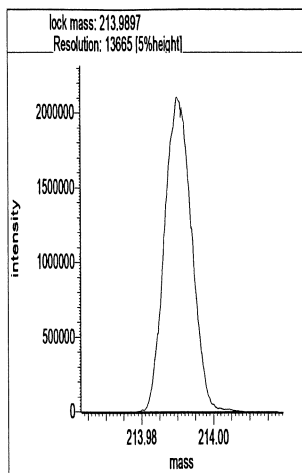


Segment 2

Lock mass 213.9897 [m/z] Resolution: 13665 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 13793 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 13451 [5%height]

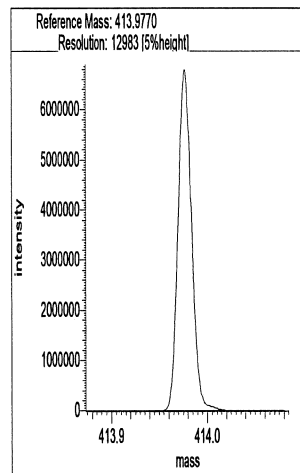
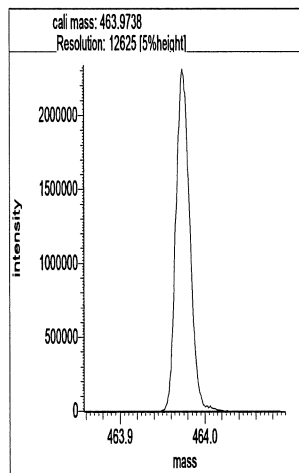
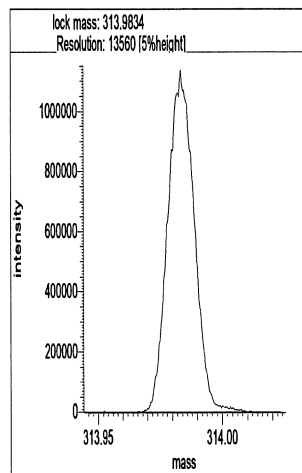


Segment 3

Lock mass 313.9834 [m/z] Resolution: 13560 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 12625 [5%height]

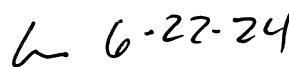
Ref. mass 413.9770 [m/z] Resolution: 12983 [5%height]



Reports

01:47:41: Peak matching procedure started
01:47:42:
01:47:42: Reference mass: 263.98656
01:47:43: Sample mass: 414.0
01:47:43:
01:47:44: Finding reference mass
01:47:45: Finding sample mass
01:47:45:
01:47:51: [1] 413.9781 amu, mean: 413.9781
01:47:54: [2] 413.9779 amu, mean: 413.9780 SD: 0.15 mmu or: 0.37 ppm
01:47:57: [3] 413.9775 amu, mean: 413.9778 SD: 0.32 mmu or: 0.77 ppm
01:48:00: [4] 413.9773 amu, mean: 413.9777 SD: 0.36 mmu or: 0.88 ppm
01:48:04: [5] 413.9766 amu, mean: 413.9775 SD: 0.56 mmu or: 1.36 ppm
01:48:07: [6] 413.9767 amu, mean: 413.9773 SD: 0.59 mmu or: 1.43 ppm
01:48:10: [7] 413.9763 amu, mean: 413.9772 SD: 0.67 mmu or: 1.62 ppm
01:48:13: [8] 413.9763 amu, mean: 413.9771 SD: 0.69 mmu or: 1.67 ppm
01:48:16: [9] 413.9763 amu, mean: 413.9770 SD: 0.70 mmu or: 1.68 ppm
01:48:19: [10] 413.9765 amu, mean: 413.9770 SD: 0.67 mmu or: 1.63 ppm
01:48:22: [11] 413.9767 amu, mean: 413.9769 SD: 0.64 mmu or: 1.56 ppm
01:48:23:
01:48:23: Stop requested. Please wait for procedure to finish.
01:48:23:
01:48:26:
01:48:26: Peakmatching stopped

Signature

6-22-24

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Jun-2024 16:12:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033215-001
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 21-Jun-2024 17:26:11 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1637

First Level Reviewer: F9EE

Date: 21-Jun-2024 17:25:39

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	17246545		3.3746	78.9	78.9	0.007754	0.007754	78.94	
Naphthalene	11:33	39816074		1.2893	179.1	179.1	0.0207	0.0207	89.53	
D 13C6-2-Methylnaphthalene	13:52	9181235		1.6031	88.5	88.5	0.002288	0.002288	88.46	
2-Methylnaphthalene	13:52	21336290		1.2786	181.8	181.8	0.0128	0.0128	90.88	
D 13C6-Acenaphthylene	16:44	10997001		1.6520	102.8	102.8	0.003926	0.003926	103	
Acenaphthylene	16:45	27373893		2.3661	181.2	181.2	0.0155	0.0155	90.60	
* Acenaphthene-d10	17:19	6474545		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	6384513		0.9792	100.7	100.7	0.005710	0.005710	101	
Acenaphthene	17:27	14427172		1.2697	178.0	178.0	0.0173	0.0173	88.99	
D 13C6-Fluorene	19:43	5850841		0.8898	101.6	101.6	0.003116	0.003116	102	
Fluorene	19:44	14101294		1.2532	192.3	192.3	0.0204	0.0204	96.16	
D 13C6-Phenanthrene	25:06	9790306		0.5724	112.7	112.7	0.003790	0.003790	113	
Phenanthrene	25:07	19890225		1.1044	184.0	184.0	0.0202	0.0202	91.98	
\$ Anthracin-d10	25:19	7569455		0.4257	117.2	117.2	0.002352	0.002352	117	
D 13C6-Anthracene	25:26	7927745		0.4523	115.5	115.5	0.004796	0.004796	116	
Anthracene	25:27	19616128		1.3586	182.1	182.1	0.0206	0.0206	91.06	
D 13C6-Fluoranthrene	33:52	18022787		1.1994	99.0	99.0	0.0113	0.0113	99.03	
Fluoranthene	33:52	38587879		1.1513	186.0	186.0	0.009068	0.009068	92.98	
* Pyrene-d10	35:25	15173891		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:33	19604844		1.3512	95.6	95.6	0.0110	0.0110	95.62	
Pyrene	35:33	39197170		1.0652	187.7	187.7	0.009126	0.009126	93.85	
\$ 13C6-Benzo(c)fluorene	39:15	9135435		0.5136	117.2	117.2	0.006174	0.006174	117	
D 13C6-Benzo(a)anthracene	46:05	17533857		1.5189	99.2	99.2	0.008594	0.008594	99.17	
Benzo[a]anthracene	46:06	34257011		0.9739	200.6	200.6	0.0179	0.0179	100	
D 13C6-Chrysene	46:21	17554564		1.6287	92.6	92.6	0.008015	0.008015	92.60	
Chrysene	46:22	34594303		0.9815	200.8	200.8	0.0178	0.0178	100	
D 13C6-Benzo(b)fluoranthene	54:38	17316018		1.4621	101.8	101.8	0.001982	0.001982	102	
Benzo[b]fluoranthene	54:38	38029165		1.1249	195.2	195.2	0.003525	0.003525	97.62	
\$ 13C12-Benzo(j)fluoranthene	54:40	15477294		1.3558	98.1	98.1	0.008889	0.008889	98.07	
D 13C6-Benzo(k)fluoranthene	54:45	19806851		1.7507	97.2	97.2	0.001655	0.001655	97.20	
Benzo[k]fluoranthene	54:45	40154294		1.1271	179.9	179.9	0.003224	0.003224	89.94	
* Benzo(e)pyrene-d12	55:30	11639642		5.7E+04	100.0	100.0				
Benzo[e]pyrene	55:34	34242660		1.0013	187.5	187.5	0.003269	0.003269	93.76	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(e)pyrene	55:34	18238066		1.6368	95.7	95.7	0.0118	0.0118	95.73	
D 13C4-Benzo(a)pyrene	55:43	16988183		1.5508	94.1	94.1	0.0125	0.0125	94.11	
Benzo[a]pyrene	55:43	38009401		1.1130	201.0	201.0	0.003224	0.003224	101	
D Perylene-d12	55:53	14030094		1.1917	101.1	101.1	0.009204	0.009204	101	
Perylene	55:57	40496948		1.4307	201.8	201.8	0.002849	0.002849	101	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	14297223		1.0218	120.2	120.2	0.006891	0.006891	120	
Indeno[1,2,3-cd]pyrene	58:01	30419238		1.1249	189.1	189.1	0.003236	0.003236	94.57	
D 13C6-Dibenz(a,h)anthracene	58:05	13812892		1.0553	112.5	112.5	0.005313	0.005313	112	Ma
Dibenz(a,h)anthracene	58:05	29680183		1.1314	189.9	189.9	0.002557	0.002557	94.96	M
D 13C12-Benzo(ghi)perylene	58:29	14777329		1.2749	99.6	99.6	0.003123	0.003123	99.58	
Benzo[g,h,i]perylene	58:29	36108138		1.2838	190.3	190.3	0.002866	0.002866	95.17	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61HRPAHCS5a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Jun-2024 16:12:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033215-001
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 21-Jun-2024 17:26:11 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1637

First Level Reviewer: F9EE

Date: 21-Jun-2024 17:25:39

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:32	0	0.666	17246545	5764169	234	585	24633		
Naphthalene											
128.0626	11:33	11:33	0	1.001	39816074	13911959	615	1537	22621		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	0	0.800	9181235	4416749	33	82	133841		
2-Methylnaphthalene											
142.0783	13:52	13:52	0	1.000	21336290	10004883	290	725	34500		
13C6-Acenaphthylene											
158.0828	16:44	16:44	0	0.966	10997001	3977934	58	145	68585		E
Acenaphthylene											
152.0626	16:45	16:45	0	1.000	27373893	9951081	331	827	30064		
Acenaphthene-d10											
164.1404	17:19	17:19	0		6474545	2235717	43	107	51993		
13C6-Acenaphthene											
160.0984	17:26	17:26	0	1.007	6384513	2258119	50	125	45162		E
Acenaphthene											
154.0783	17:27	17:27	0	1.001	14427172	5069900	198	495	25606		
13C6-Fluorene											
172.0984	19:43	19:43	0	1.139	5850841	1717380	25	62	68695		E
Fluorene											
166.0783	19:44	19:44	0	1.001	14101294	4275396	176	440	24292		
13C6-Phenanthrene											
184.0984	25:06	25:06	0	0.709	9790306	2356426	26	65	90632		E
Phenanthrene											
178.0783	25:07	25:07	0	1.000	19890225	4838683	210	525	23041		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:19	25:19	0	0.715	7569455	1763665	12	30	146972		
13C6-Anthracene											
184.0984	25:26	25:26	0	0.718	7927745	1872418	26	65	72016		E
Anthracene											
178.0783	25:27	25:27	0	1.000	19616128	4654846	210	525	22166		
13C6-Fluoranthrene											
208.0984	33:52	33:52	0	0.956	18022787	3639957	163	407	22331		
Fluoranthene											
202.0783	33:52	33:52	0	1.000	38587879	7928776	152	380	52163		
Pyrene-d10											
212.1404	35:25	35:25	0		15173891	2996090	27	67	110966		
13C3-Pyrene											
205.0883	35:33	35:33	0	1.004	19604844	3908986	178	445	21961		
Pyrene											
202.0783	35:33	35:33	0	1.000	39197170	7982469	152	380	52516		
13C6-Benzo(c)fluorene											
222.1134	39:15	39:15	0	0.707	9135435	1742117	38	95	45845		
13C6-Benzo(a)anthracene											
234.1140	46:05	46:05	0	1.301	17533857	3253378	193	482	16857		
Benzo[a]anthracene											
228.0939	46:06	46:06	0	1.000	34257011	6346243	227	567	27957		
13C6-Chrysene											
234.1140	46:21	46:21	0	1.309	17554564	3245831	193	482	16818		
Chrysene											
228.0939	46:22	46:22	0	1.000	34594303	6346645	227	567	27959		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:38	0	0.985	17316018	5043268	43	107	117285		E
Benzo[b]fluoranthene											
252.0939	54:38	54:38	0	1.000	38029165	10961089	80	200	137014		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:40	0	0.985	15477294	4222133	178	445	23720		
13C6-Benzo(k)fluoranthene											
258.1140	54:45	54:45	0	0.987	19806851	5503529	43	107	127989		
Benzo[k]fluoranthene											
252.0939	54:45	54:45	0	1.000	40154294	10926529	80	200	136582		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	0		11639642	3692349	162	405	22792		
Benzo[e]pyrene											
252.0939	55:34	55:34	0	1.000	34242660	11211924	80	200	140149		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:34	0	1.001	18238066	6111032	286	715	21367		
13C4-Benzo(a)pyrene											
256.1073	55:43	55:43	0	1.004	16988183	5573084	286	715	19486		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:43	55:43	0	1.000	38009401	12511324	80	200	156392		
Perylene-d12											
264.1692	55:53	55:53	0	1.007	14030094	4907359	162	405	30292		E
Perylene											
252.0939	55:57	55:57	0	1.001	40496948	14234331	80	200	177929		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:01	0	1.046	14297223	4807595	104	260	46227		E
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:01	0	1.000	30419238	11032099	70	175	157601		
13C6-Dibenz(a,h)anthracene											
284.1296	58:05	58:05	0	1.047	13812892	4665808	83	207	56215		Ma
Dibenz(a,h)anthracene											
278.1096	58:05	58:05	0	1.000	29680183	9892831	54	135	183201		EM
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:29	0	1.054	14777329	4755595	59	147	80603		M
Benzo[g,h,i]perylene											
276.0939	58:29	58:29	0	1.000	36108138	12502307	70	175	178604		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61HRPAHCS5a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d

Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

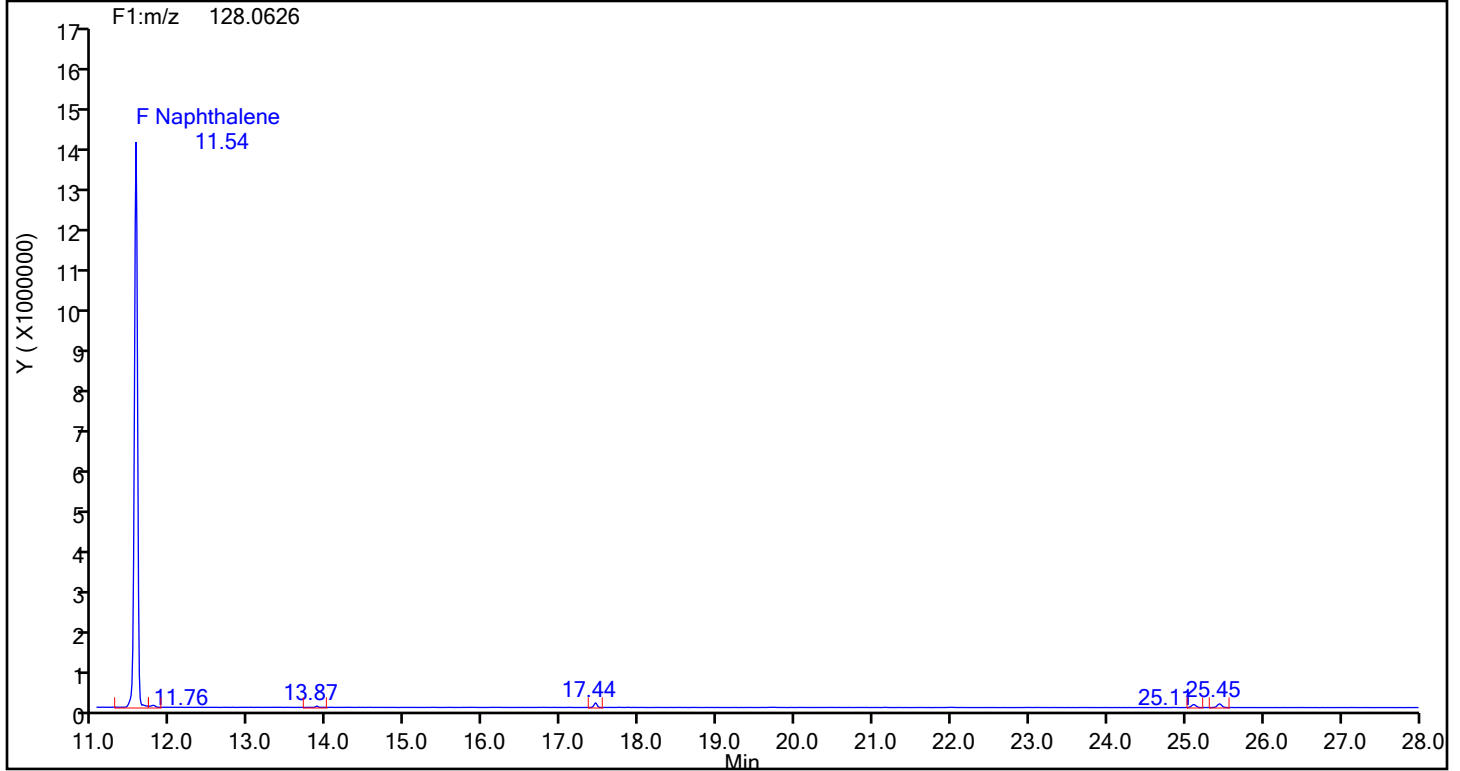
Worklist#: 87947

Sample Line#: 1

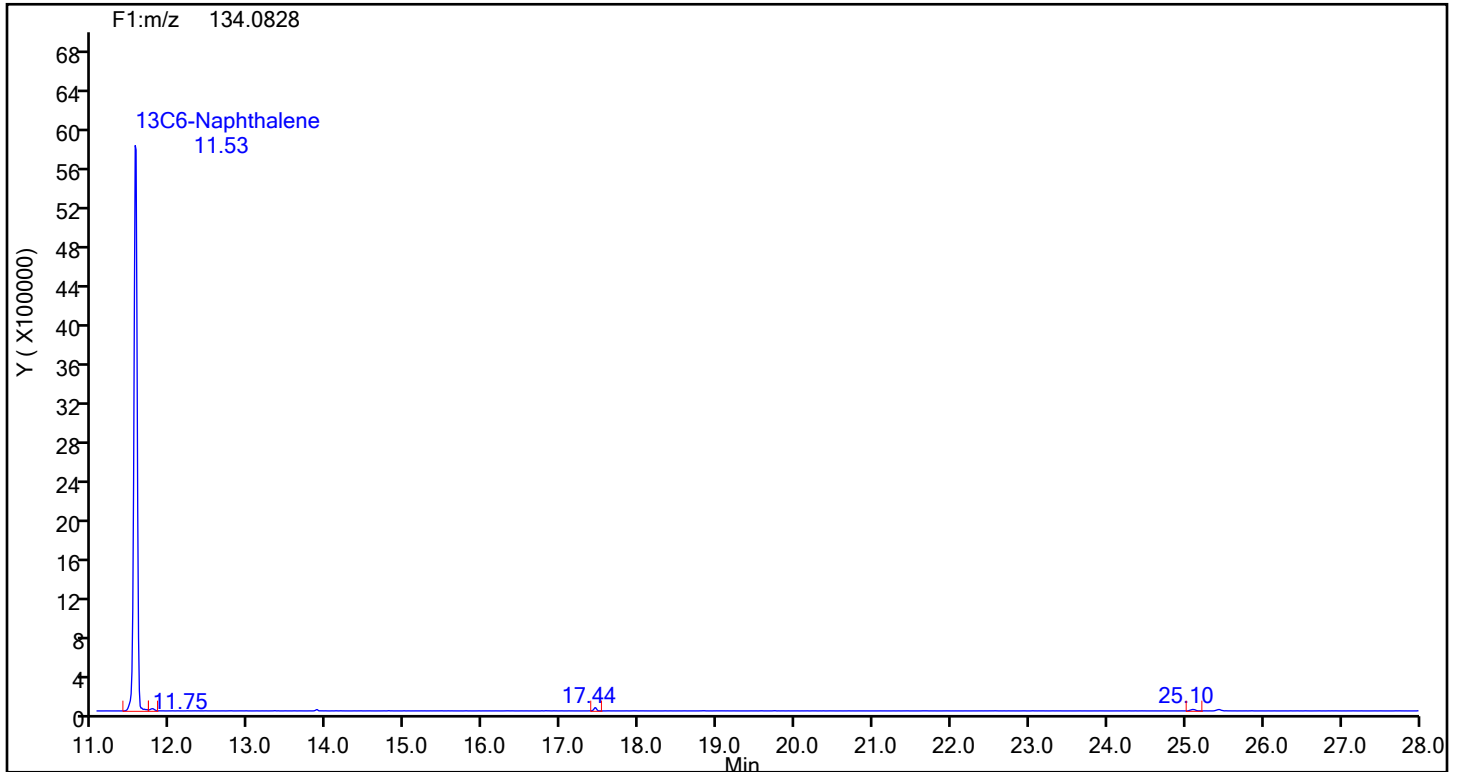
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d

Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

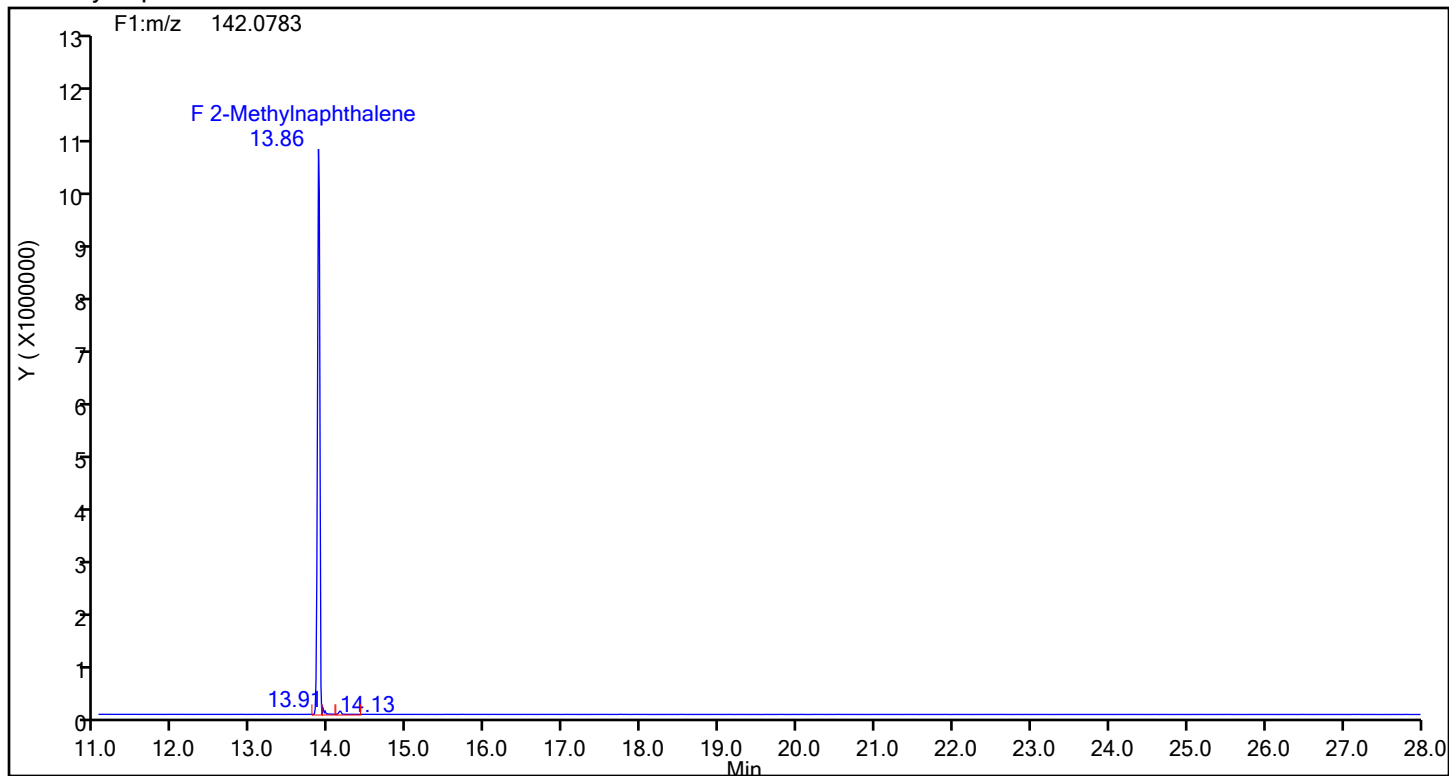
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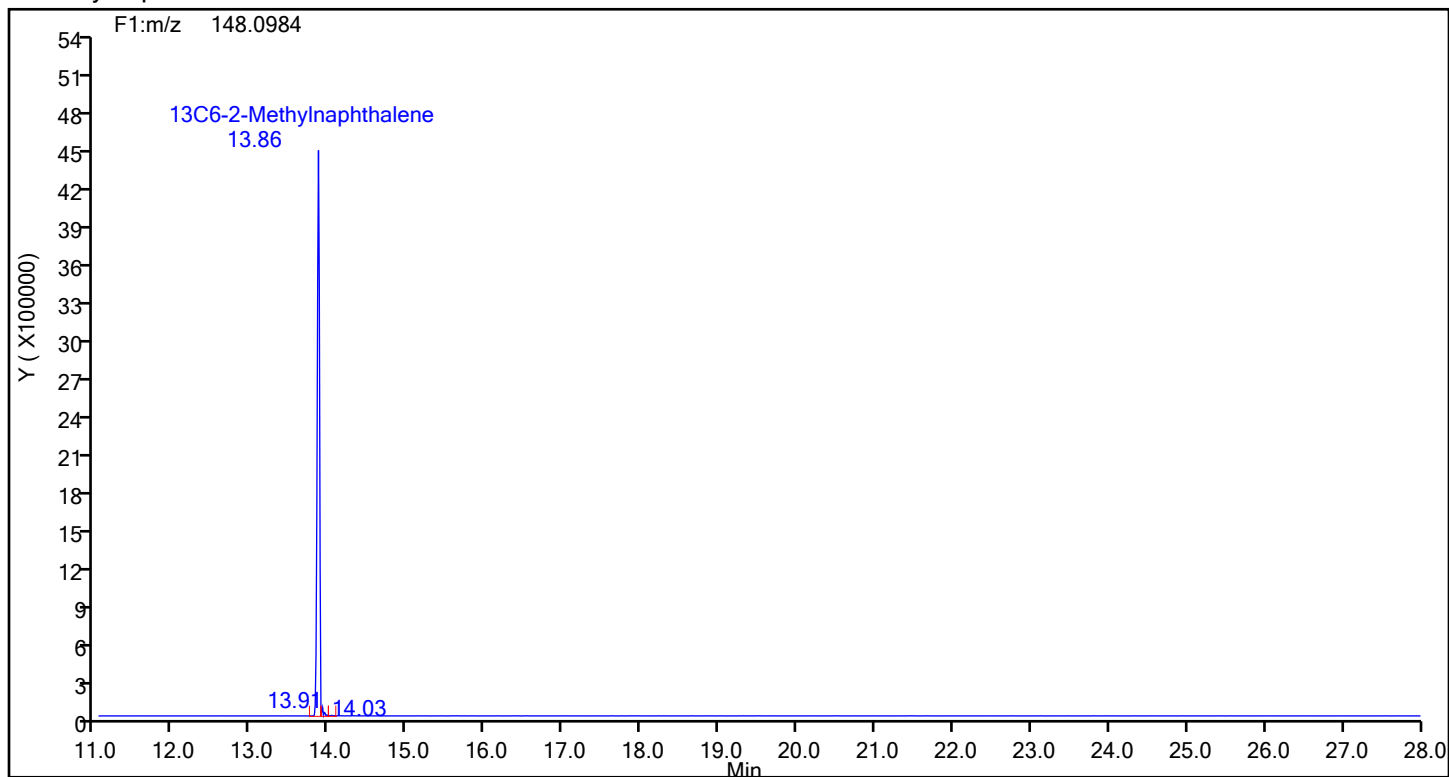
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

2-Methylnaphthalene



2-Methylnaphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d

Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

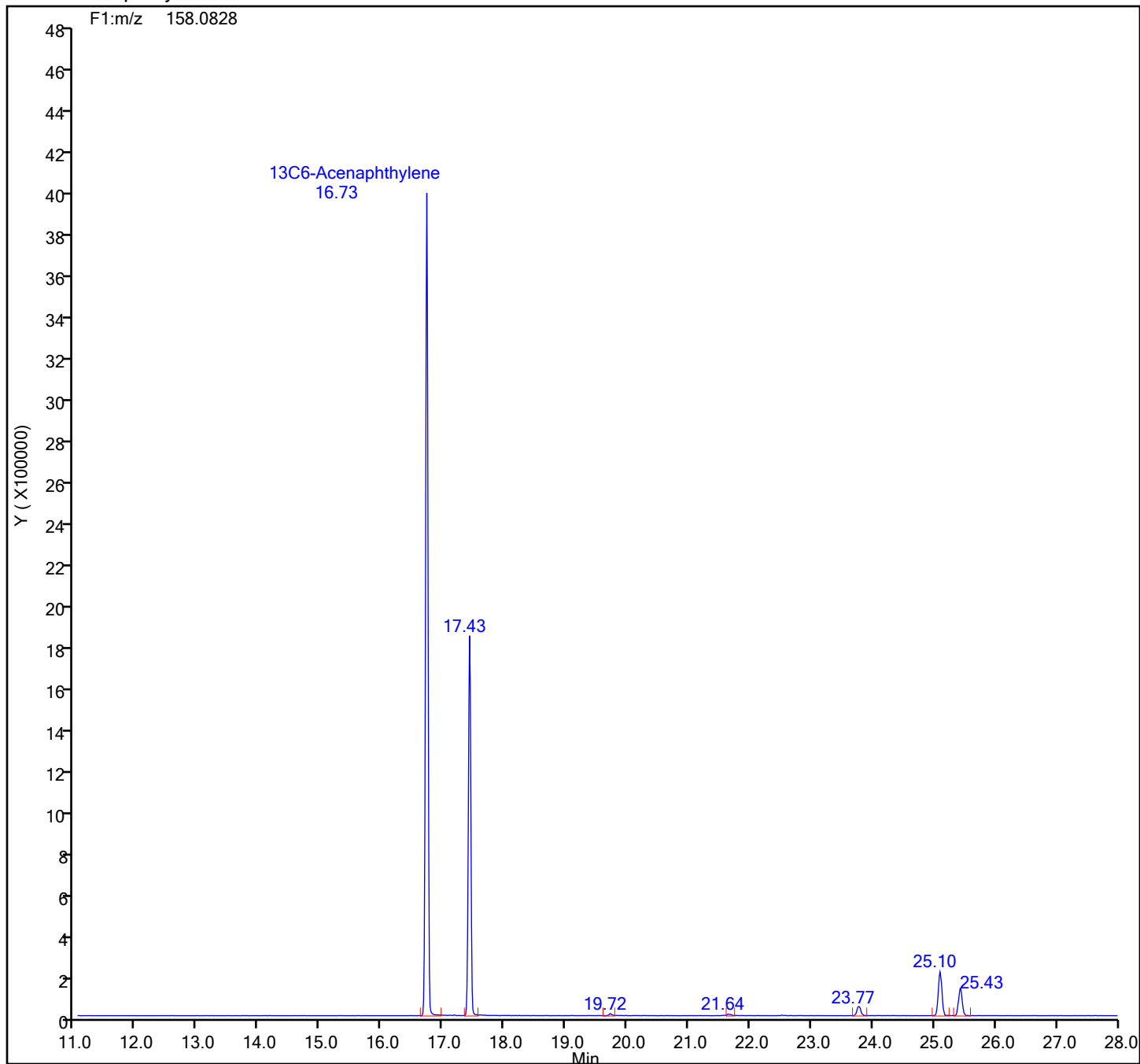
Worklist#: 87947

Sample Line#: 1

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Acenaphthylene Standards



Eurofins Knoxville

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Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

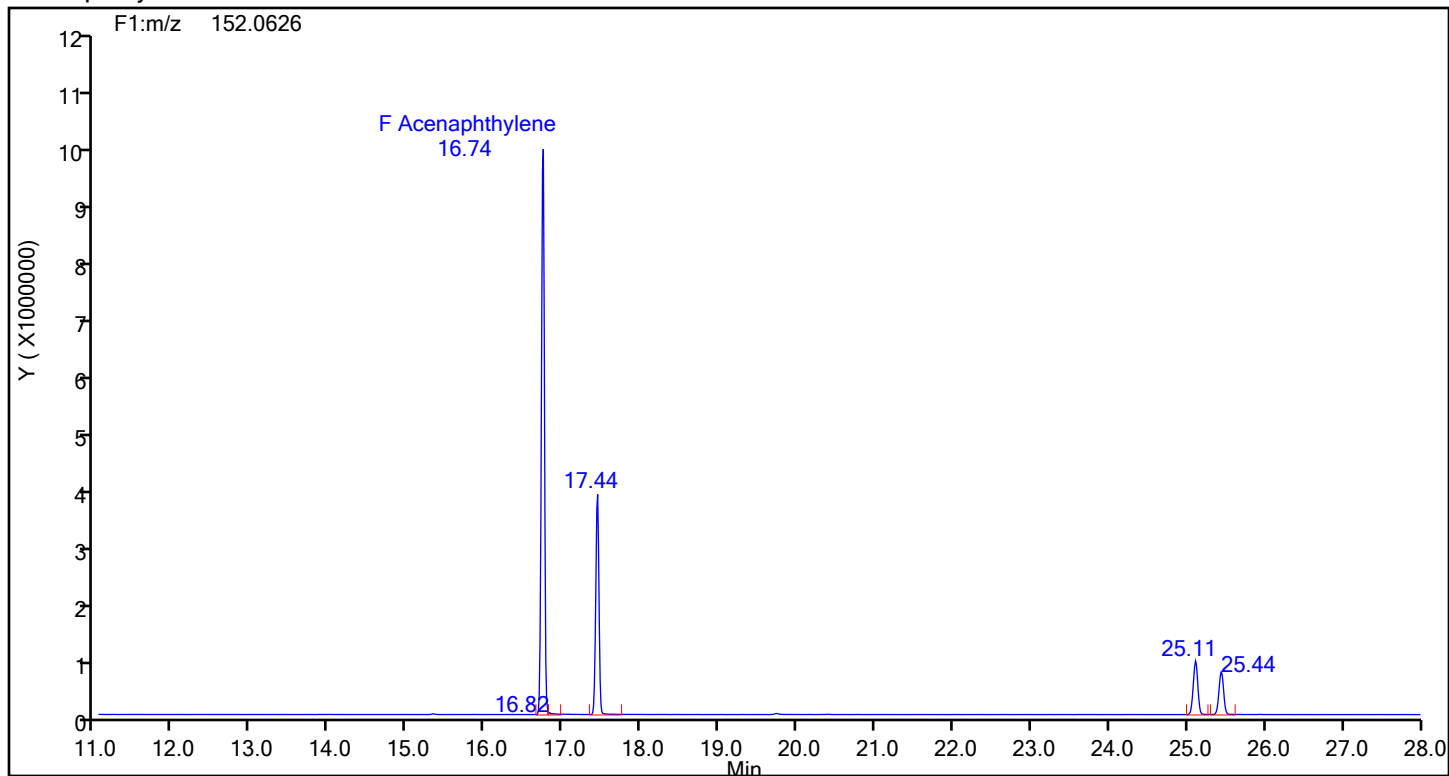
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Sample Line#: 1

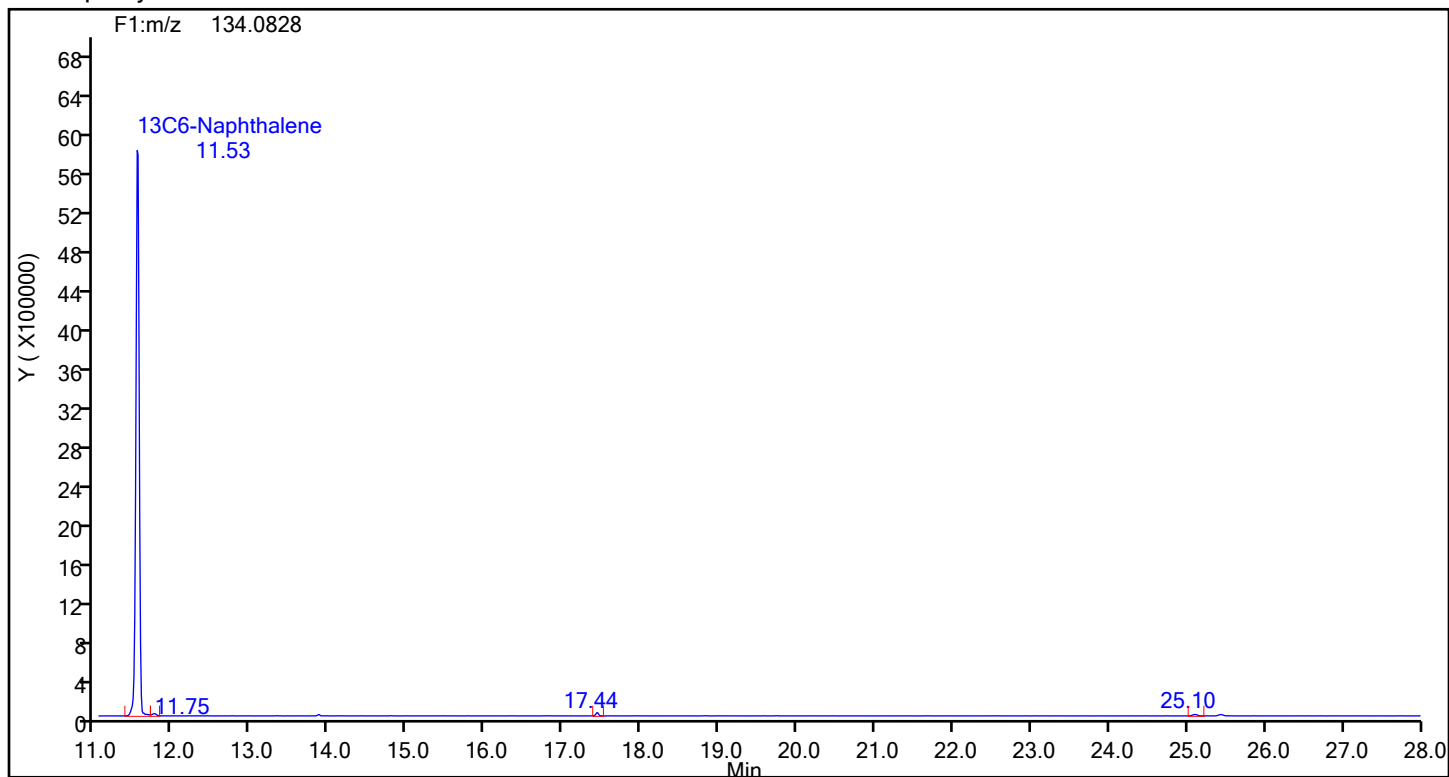
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Acenaphthylene



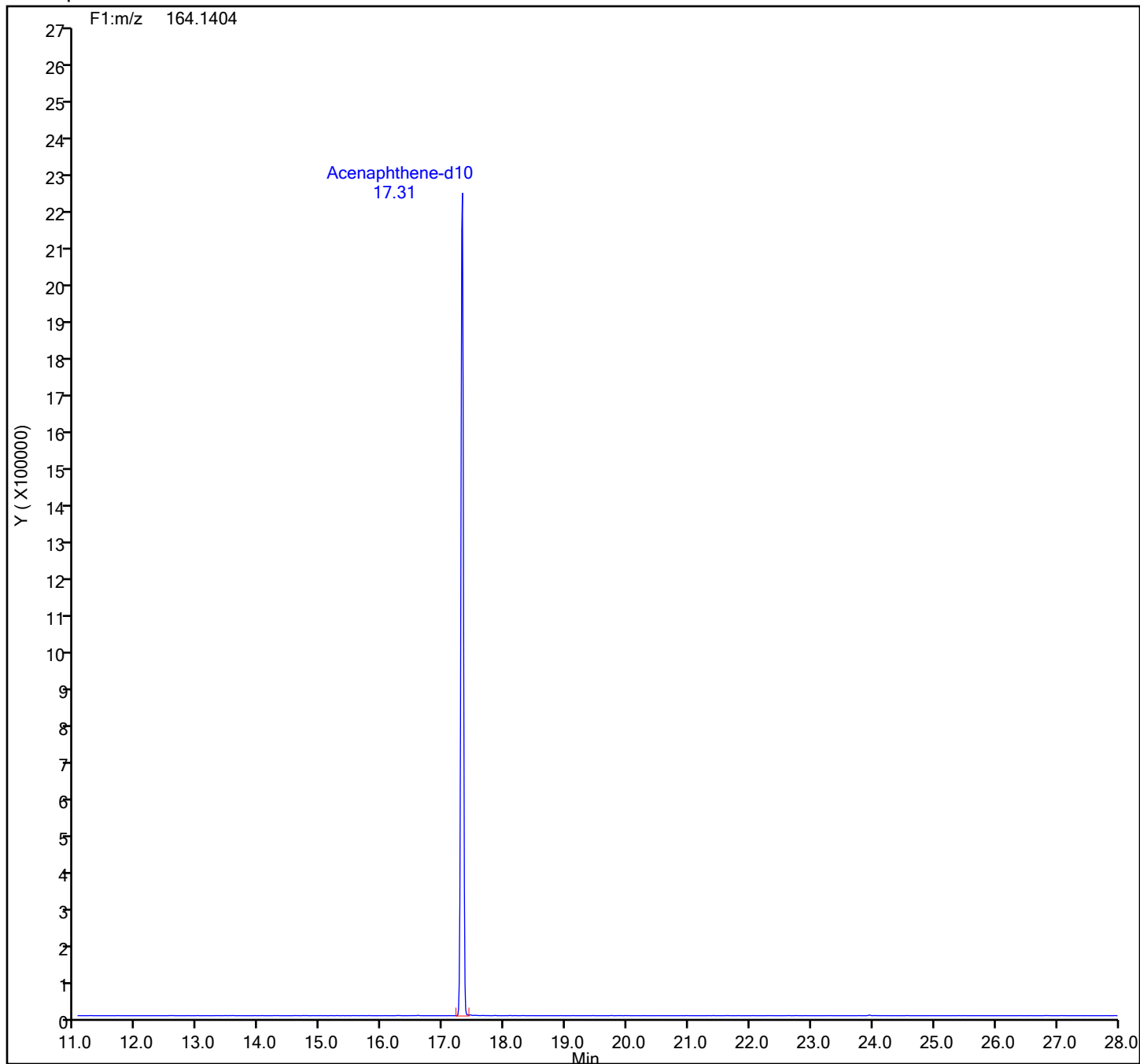
Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d
Injection Date: 21-Jun-2024 16:12:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87947 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene-d10 Standards



Eurofins Knoxville

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Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

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Limit Group: HR - HRPAAH ICAL

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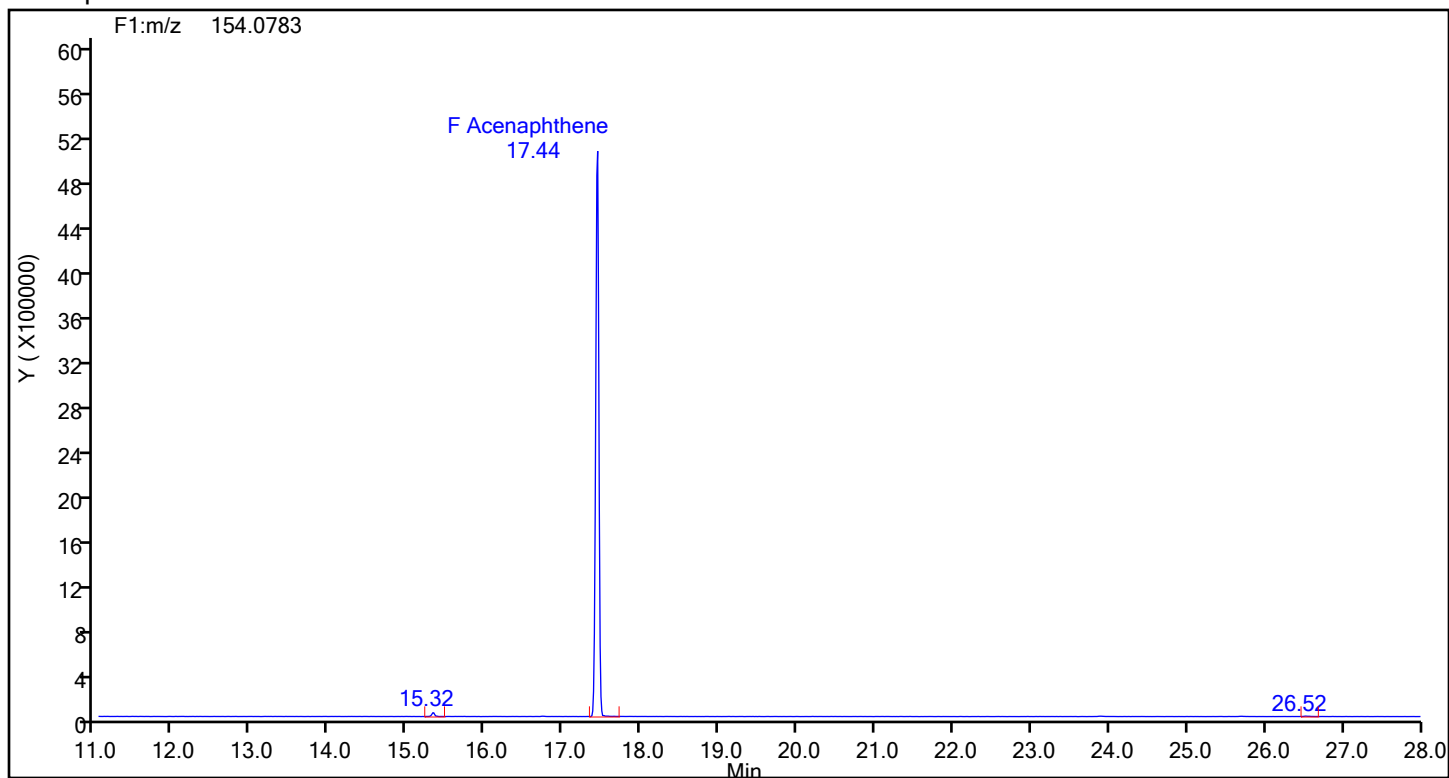
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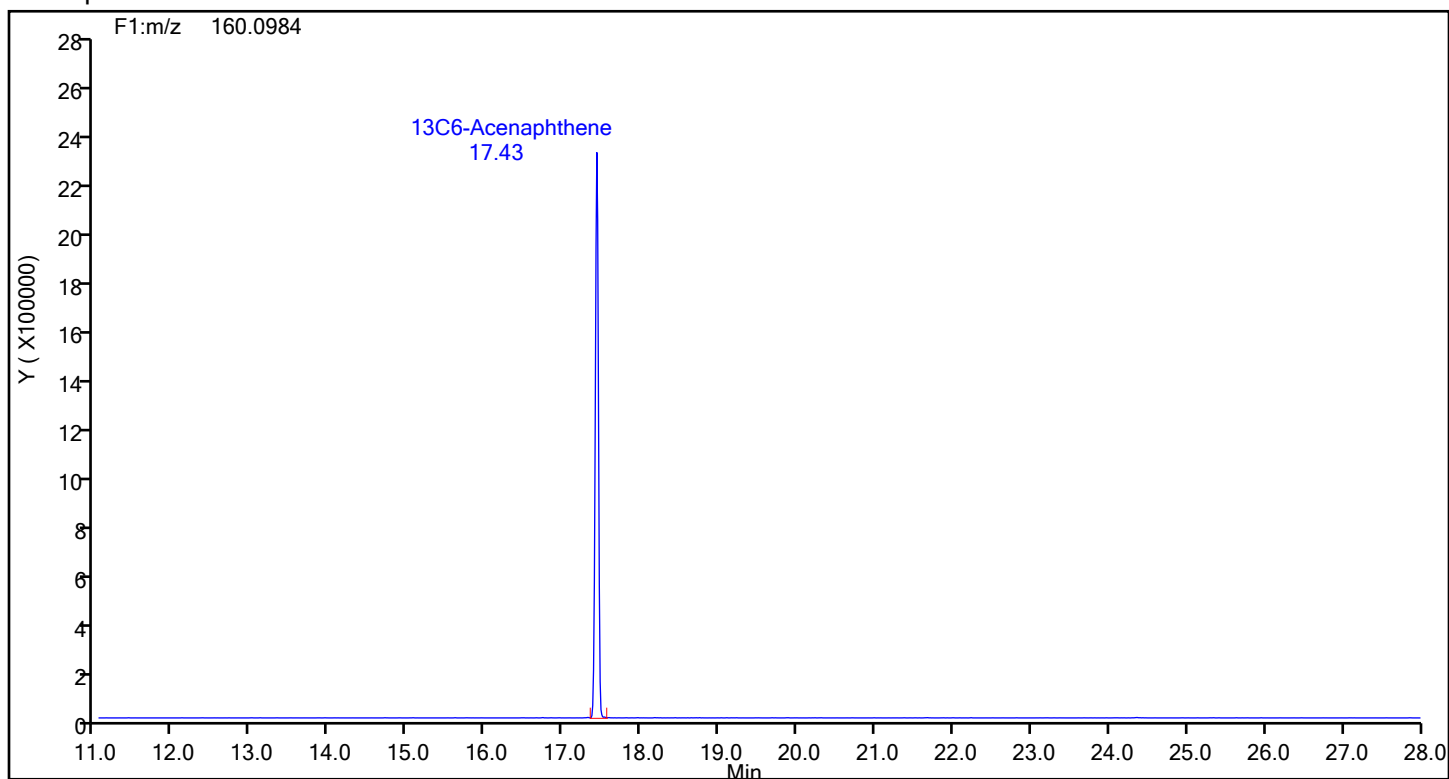
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Acenaphthene



Acenaphthene Standards



Eurofins Knoxville

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Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

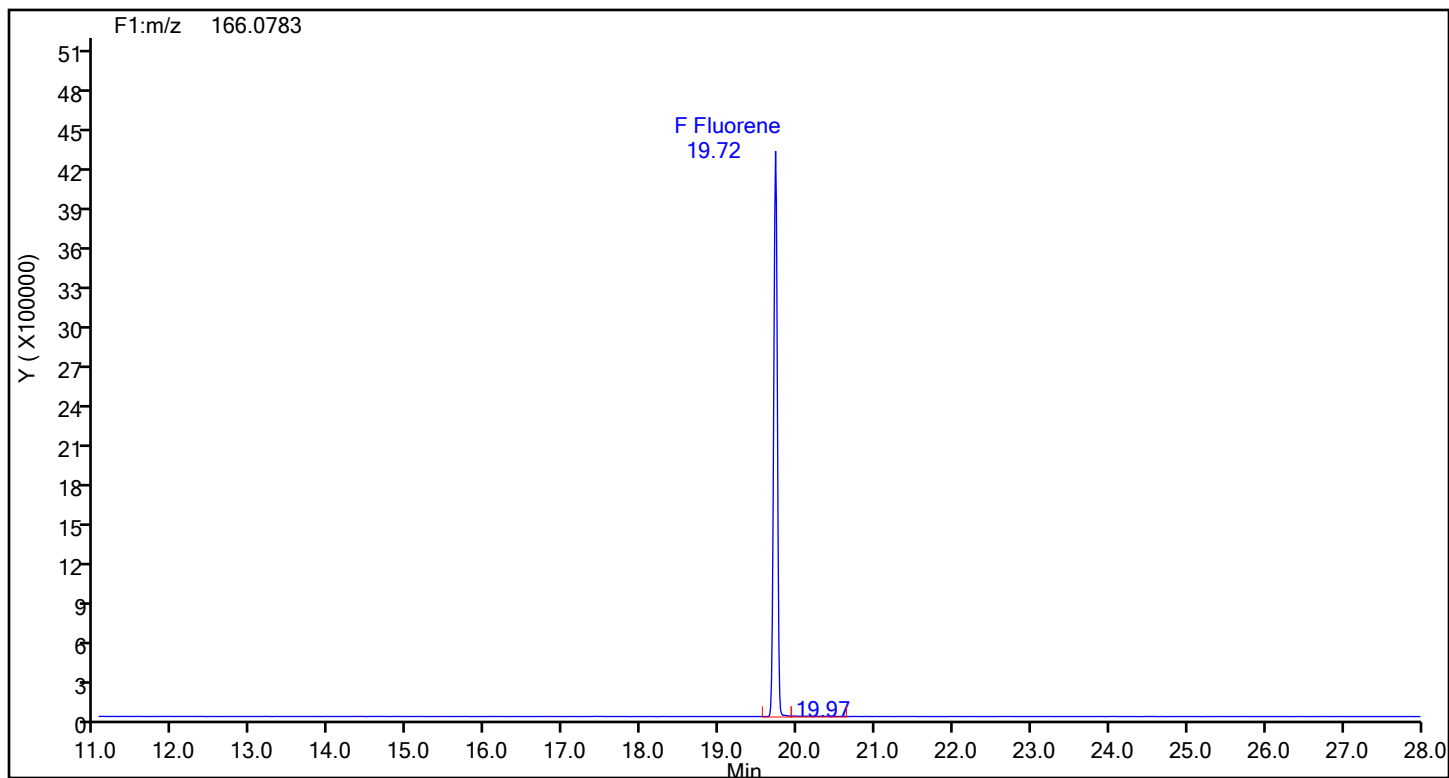
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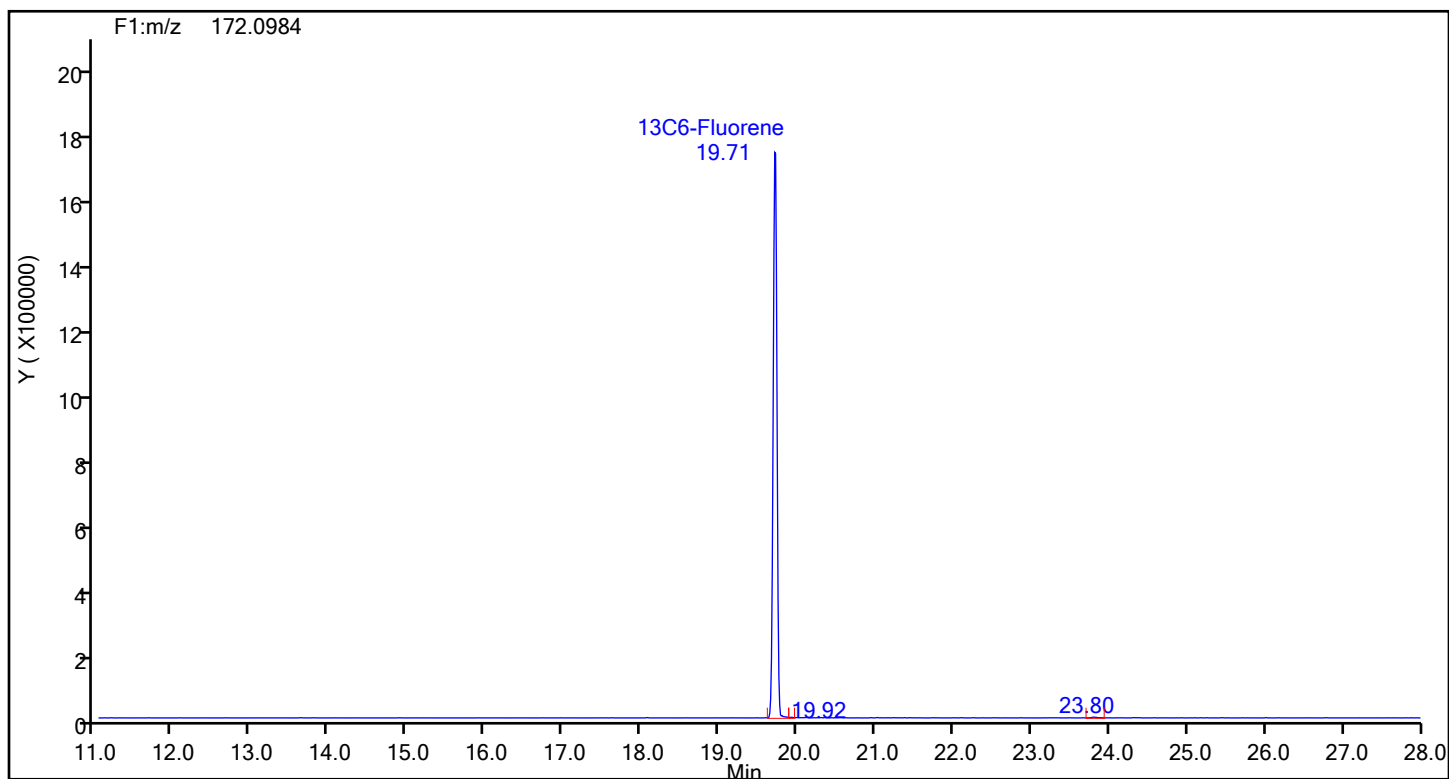
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Fluorene

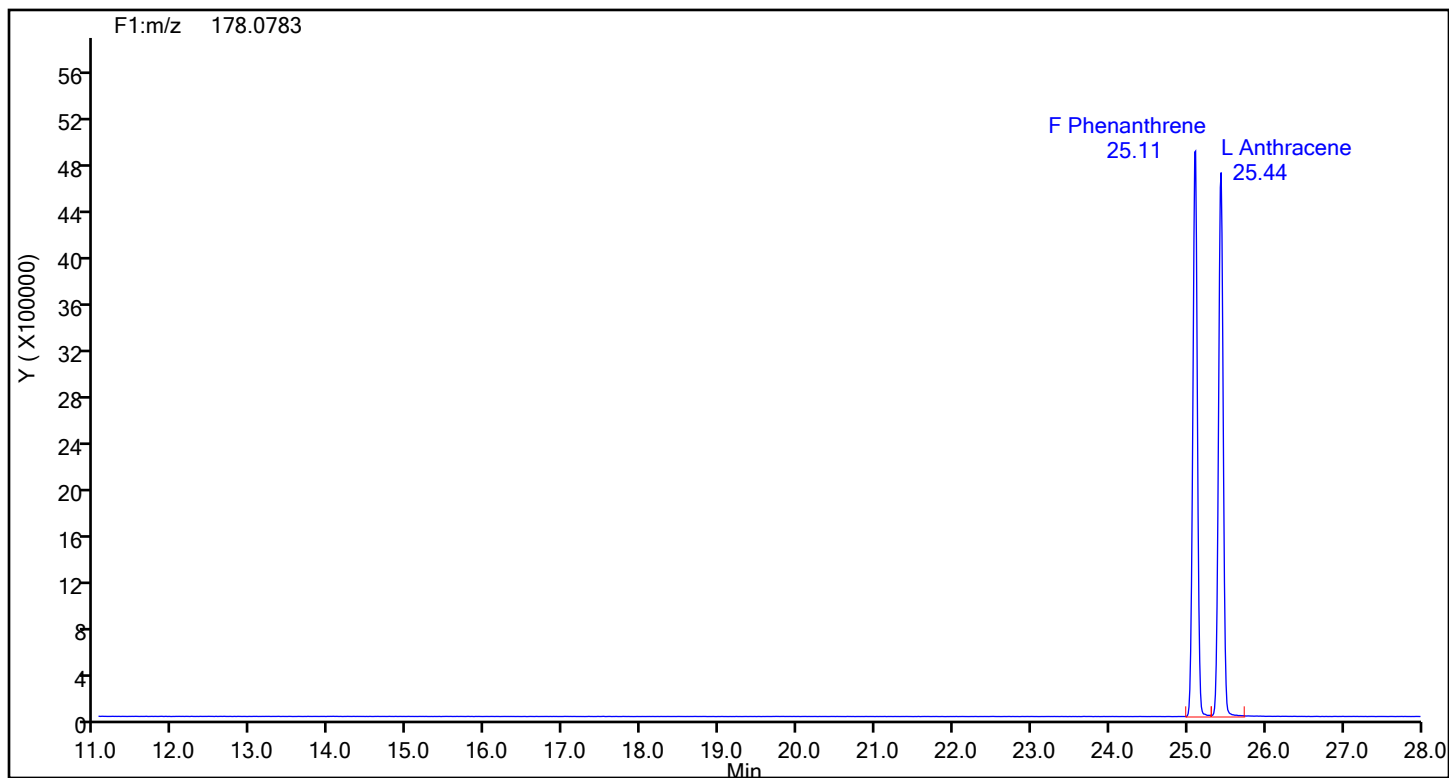


Fluorene Standards

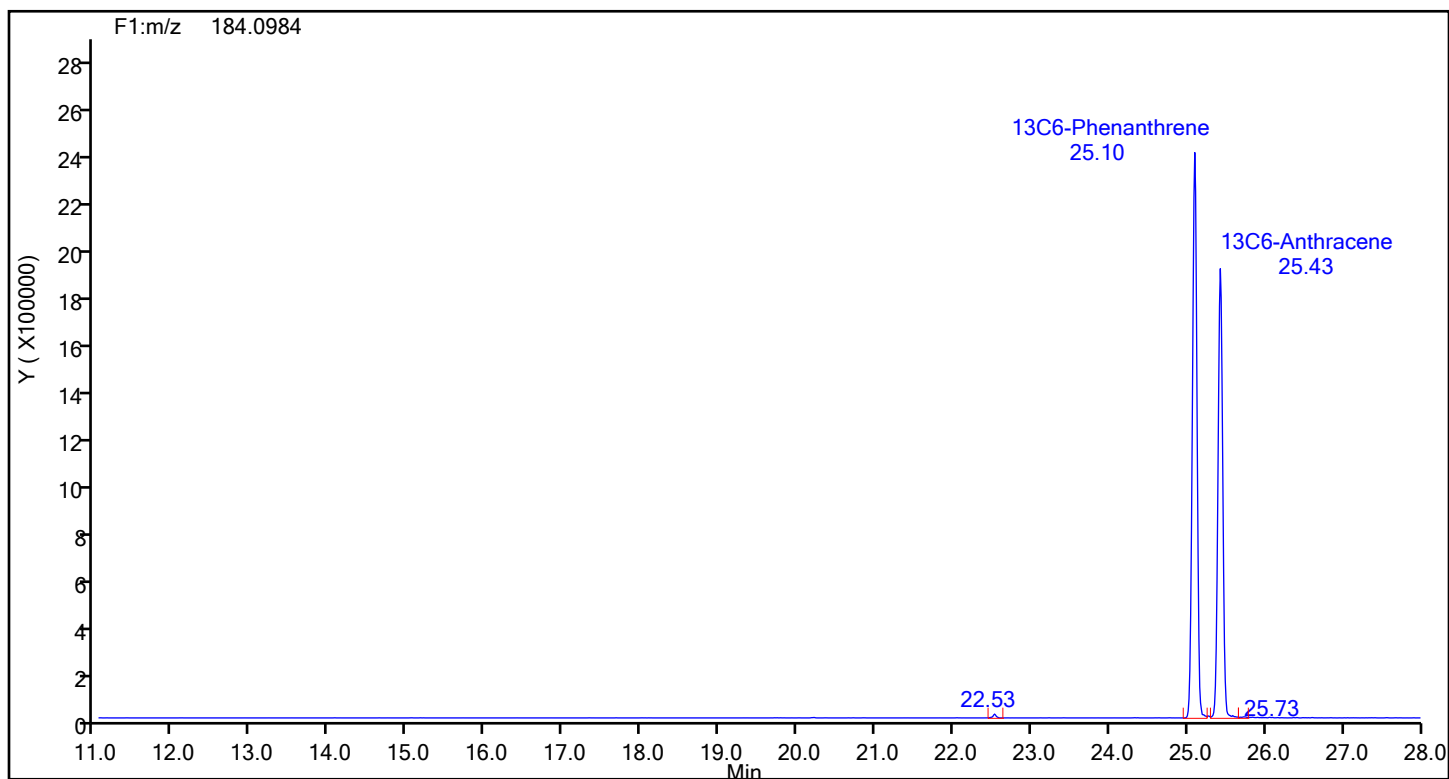


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d
Injection Date: 21-Jun-2024 16:12:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87947 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene



Phenanthrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d

Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

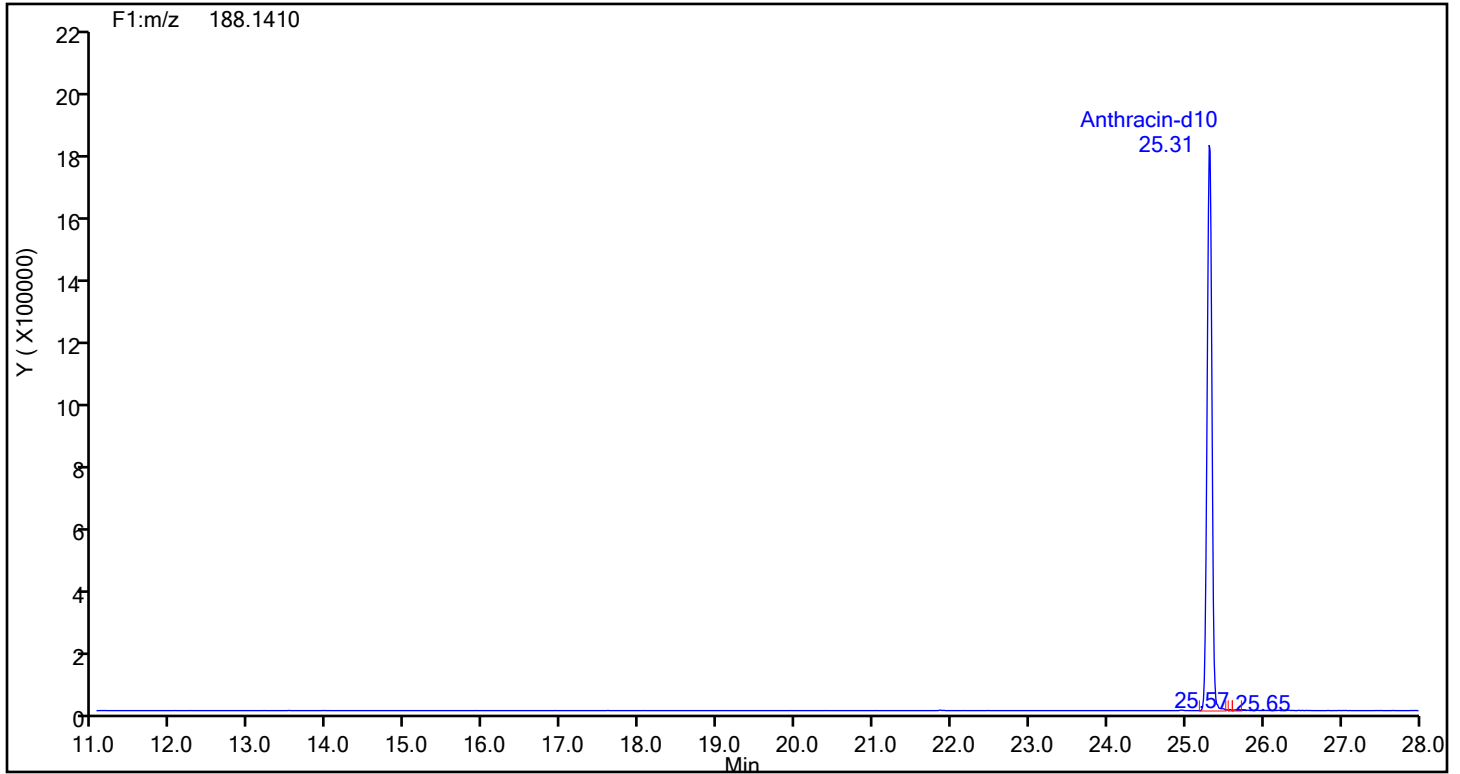
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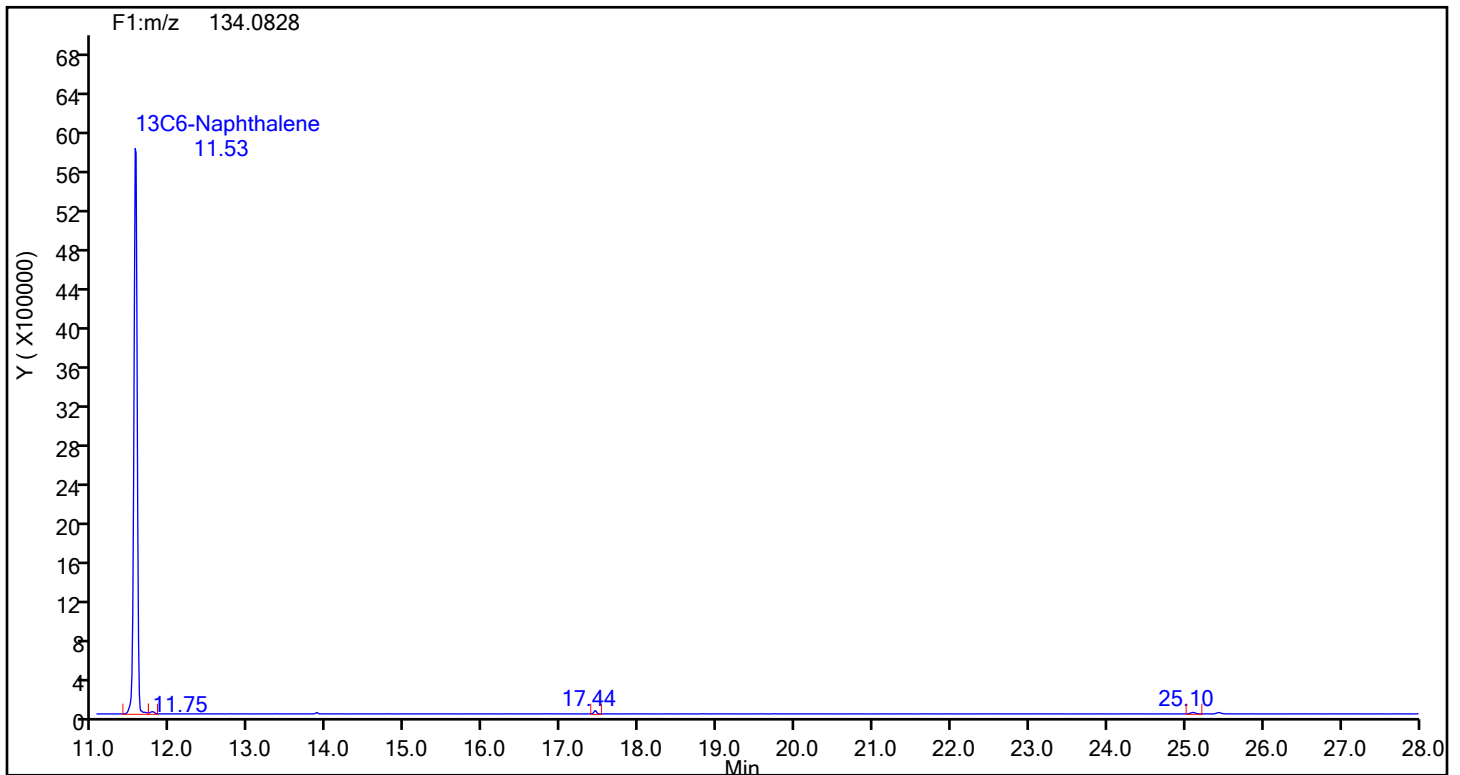
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Anthracin-d10



Anthracin-d10 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d

Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

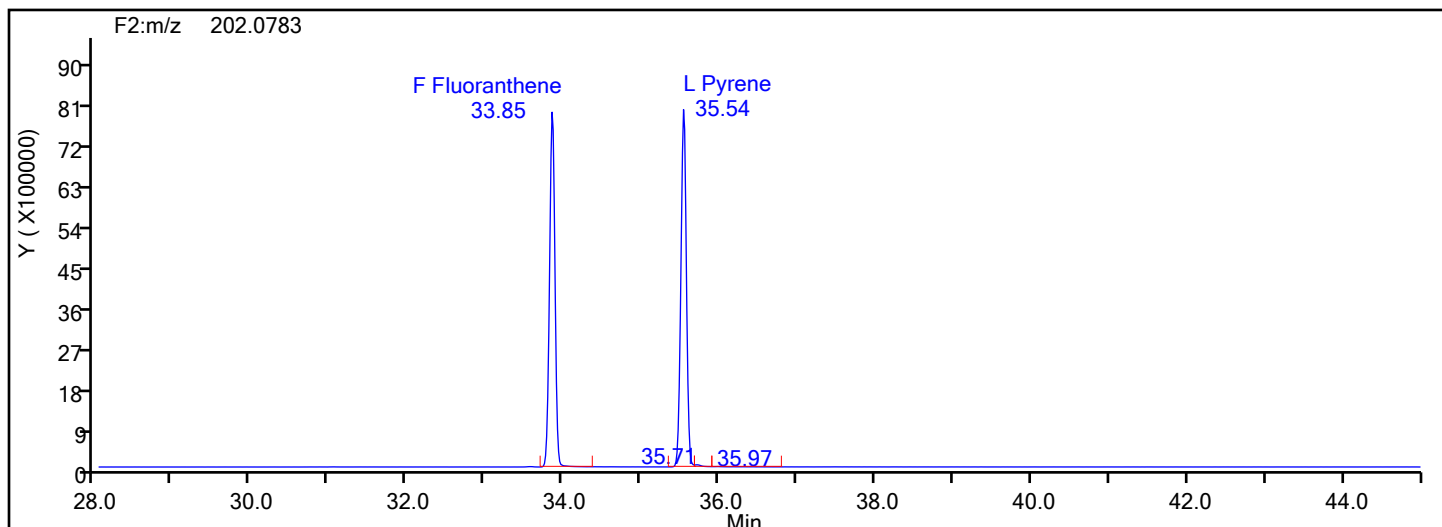
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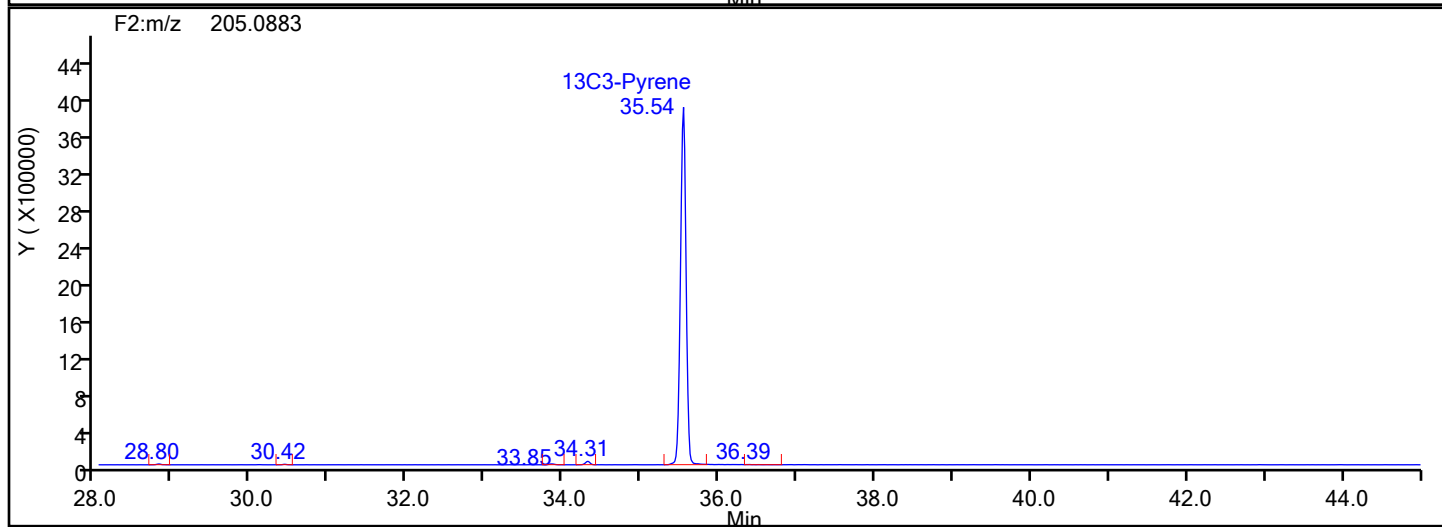
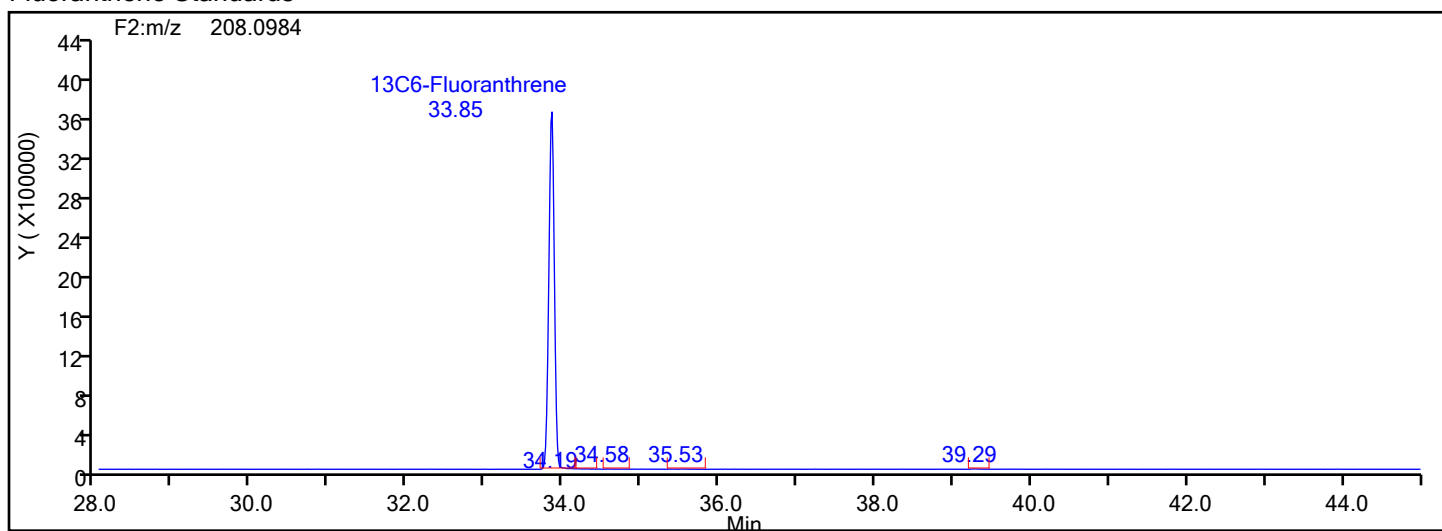
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Fluoranthene



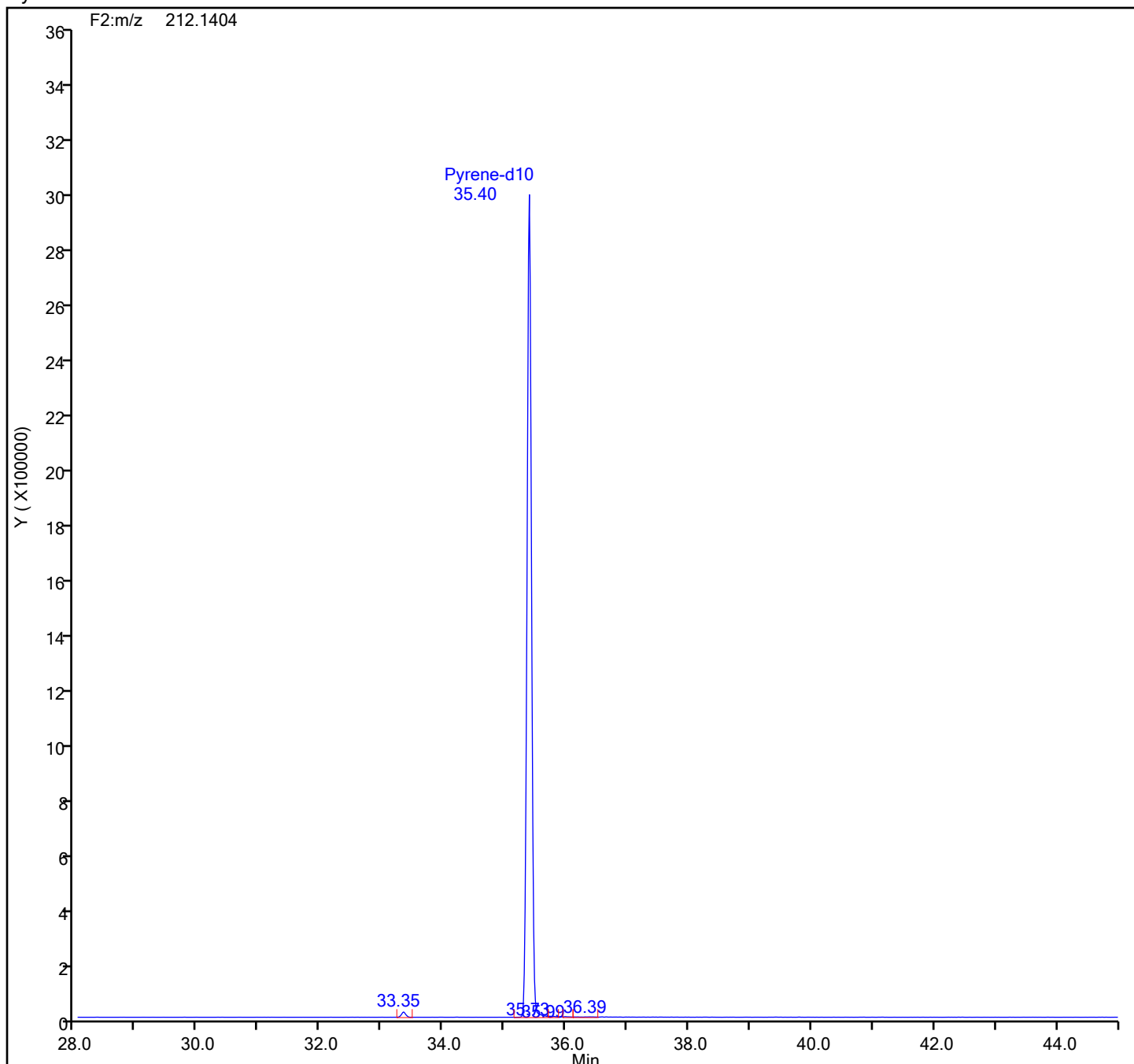
Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d
Injection Date: 21-Jun-2024 16:12:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87947 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene-d10 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d

Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

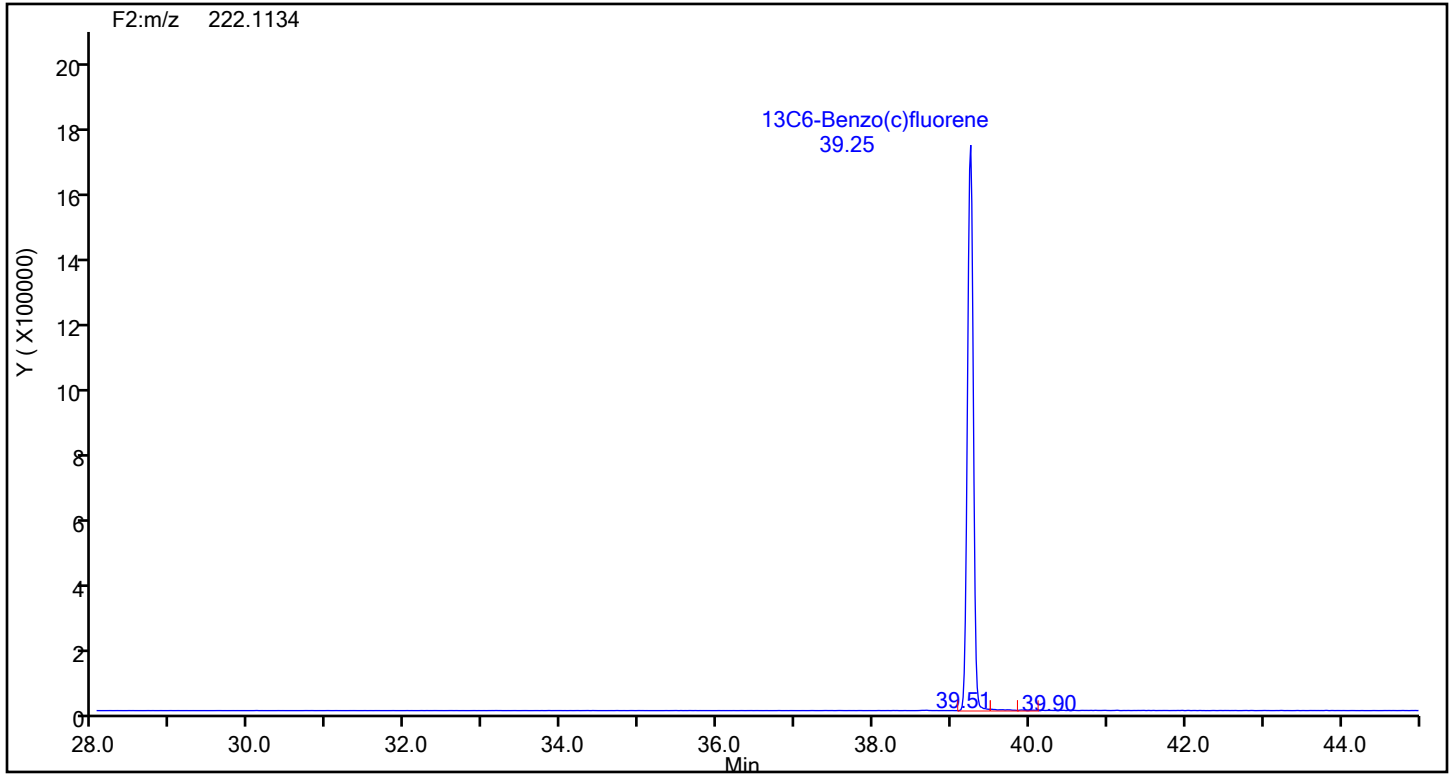
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Sample Line#: 1

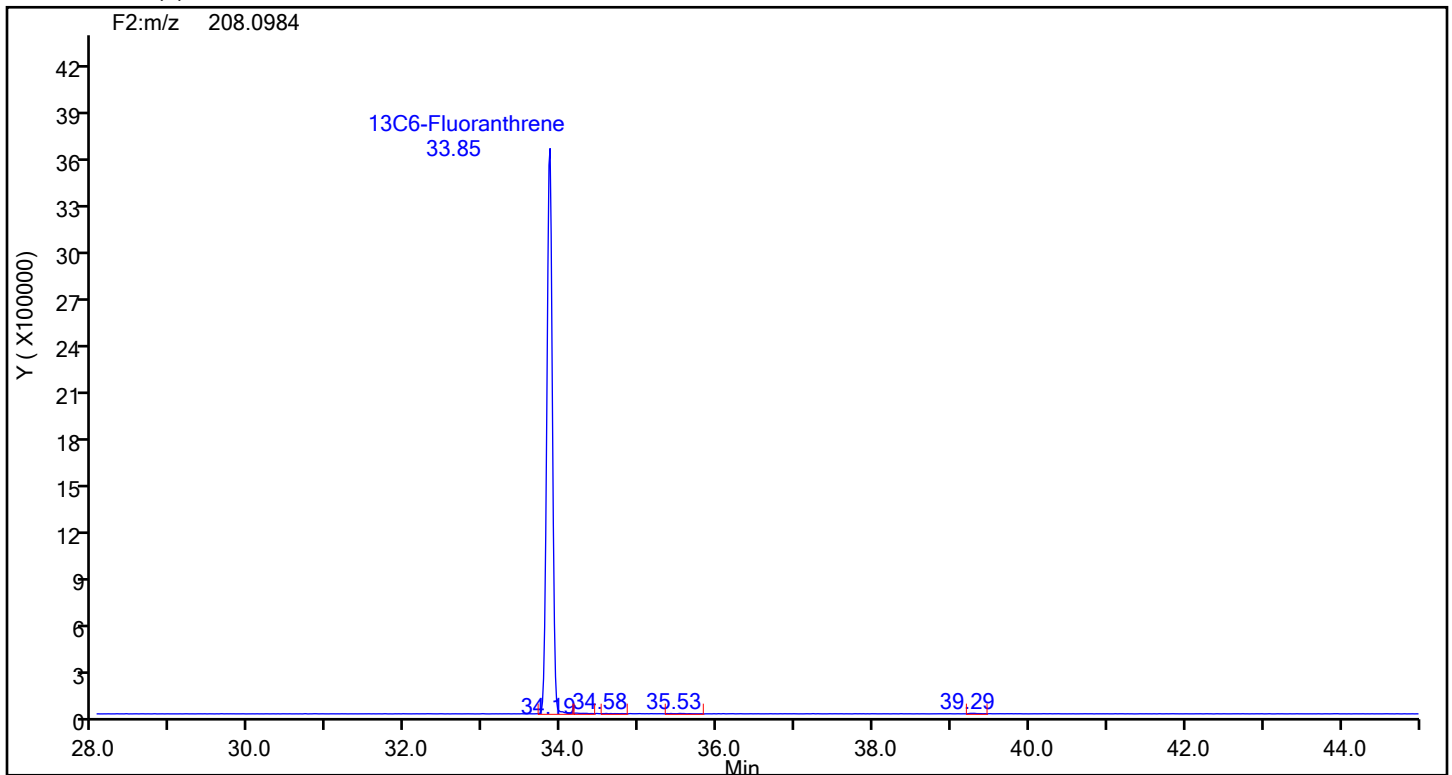
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



13C6-Benzo(c)fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d

Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

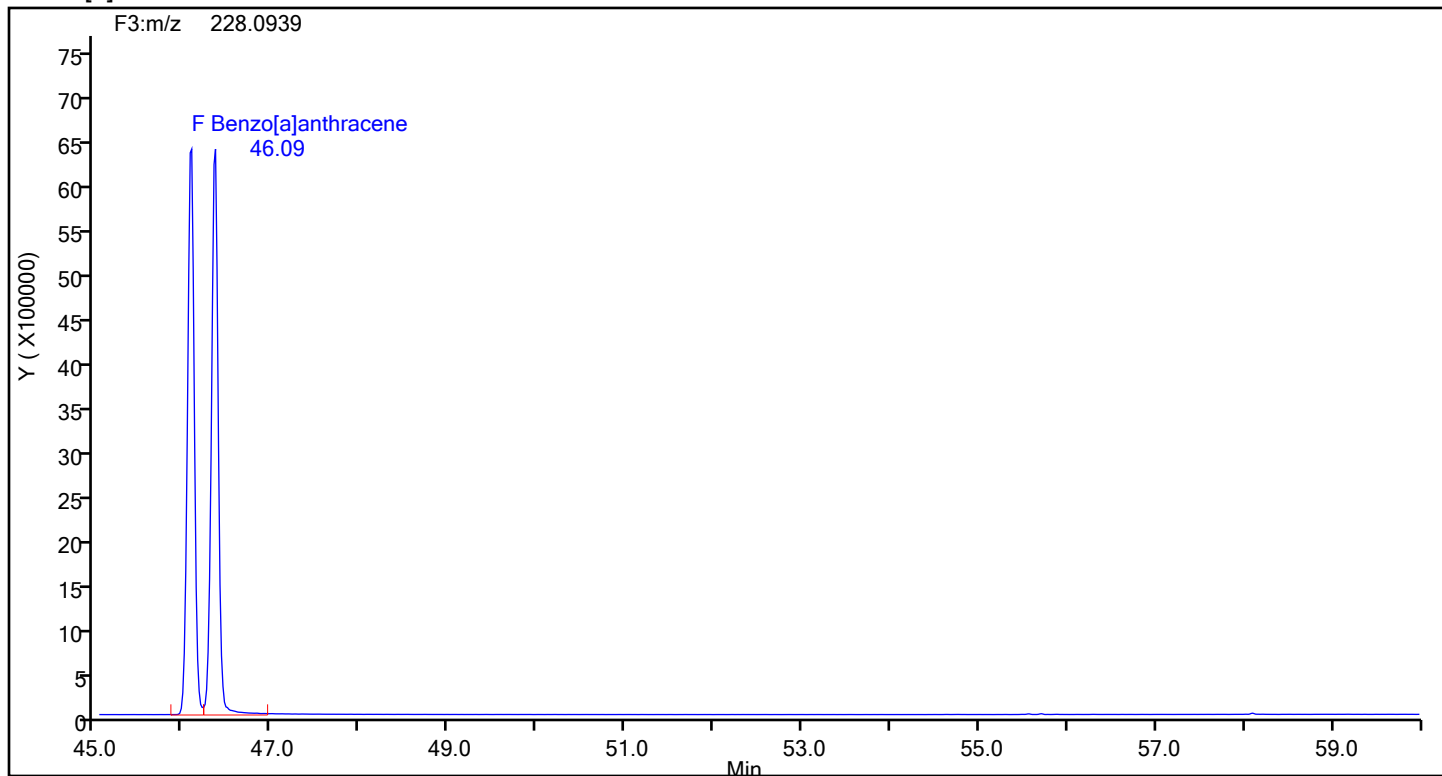
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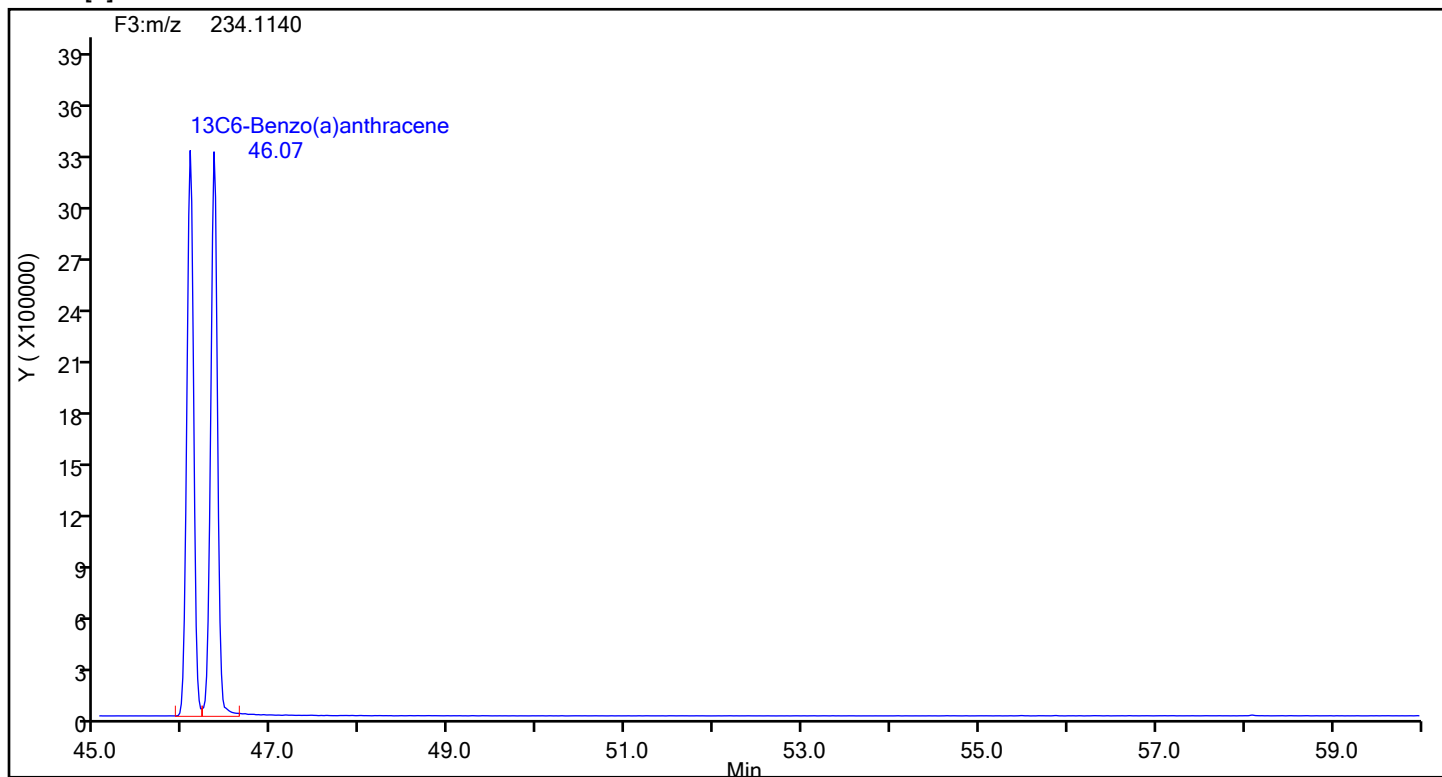
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d

Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

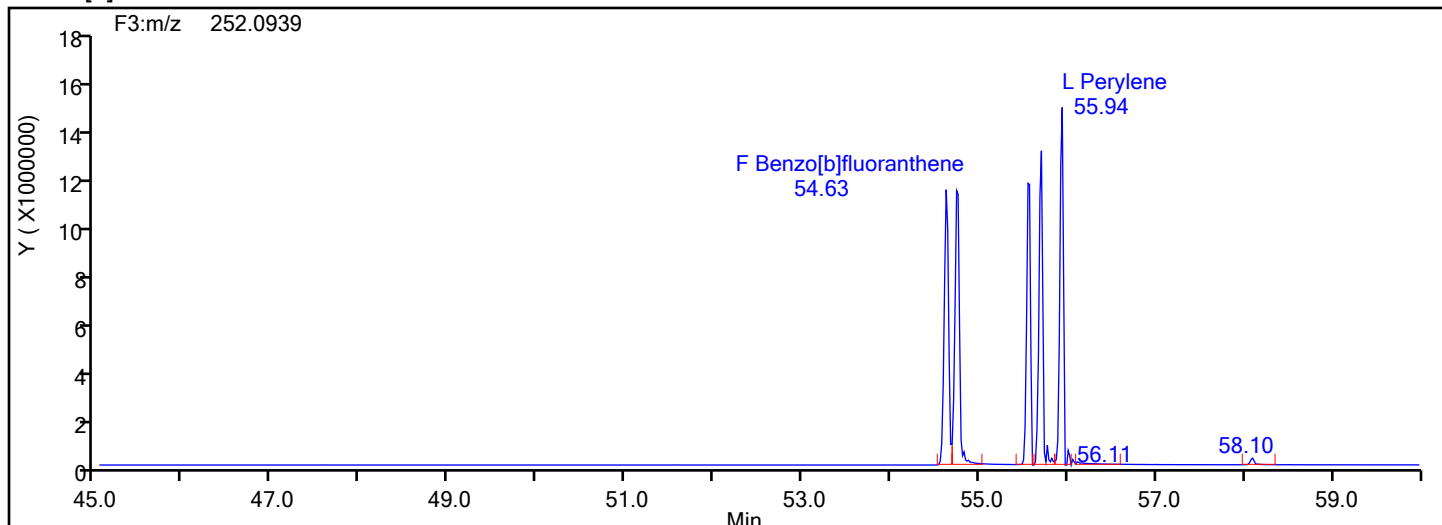
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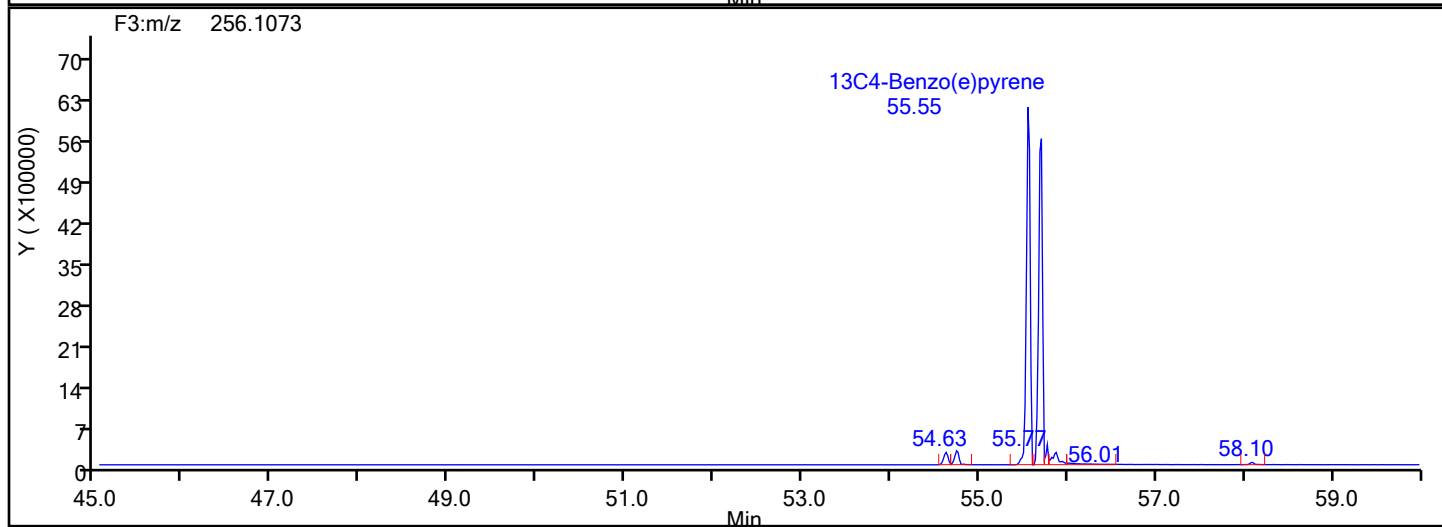
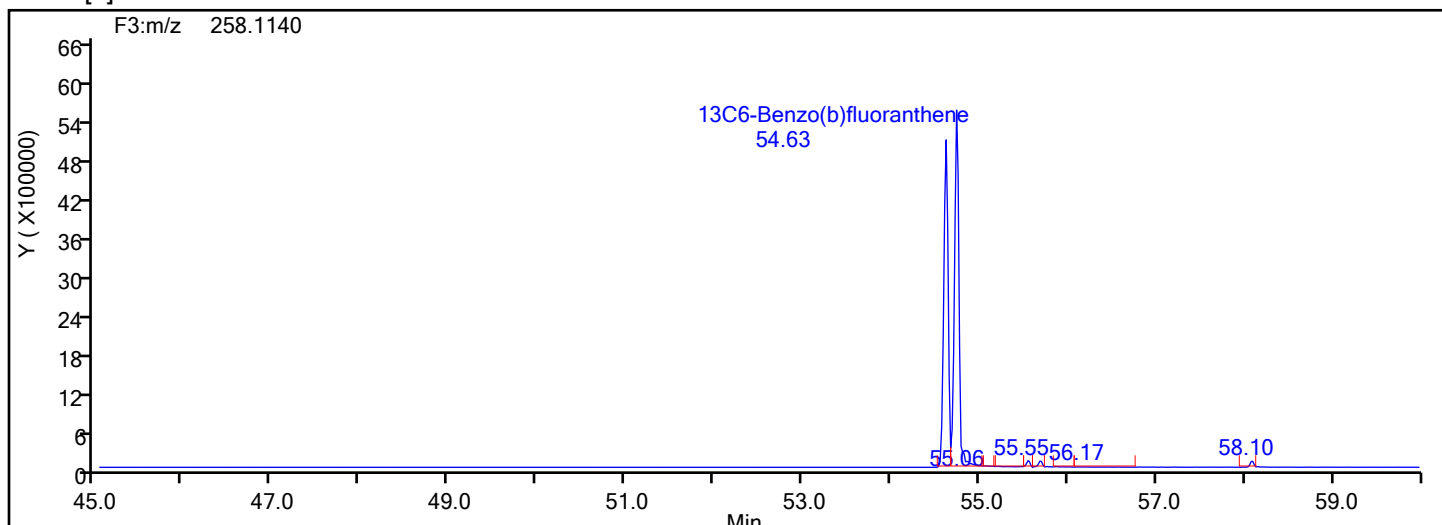
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d

Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

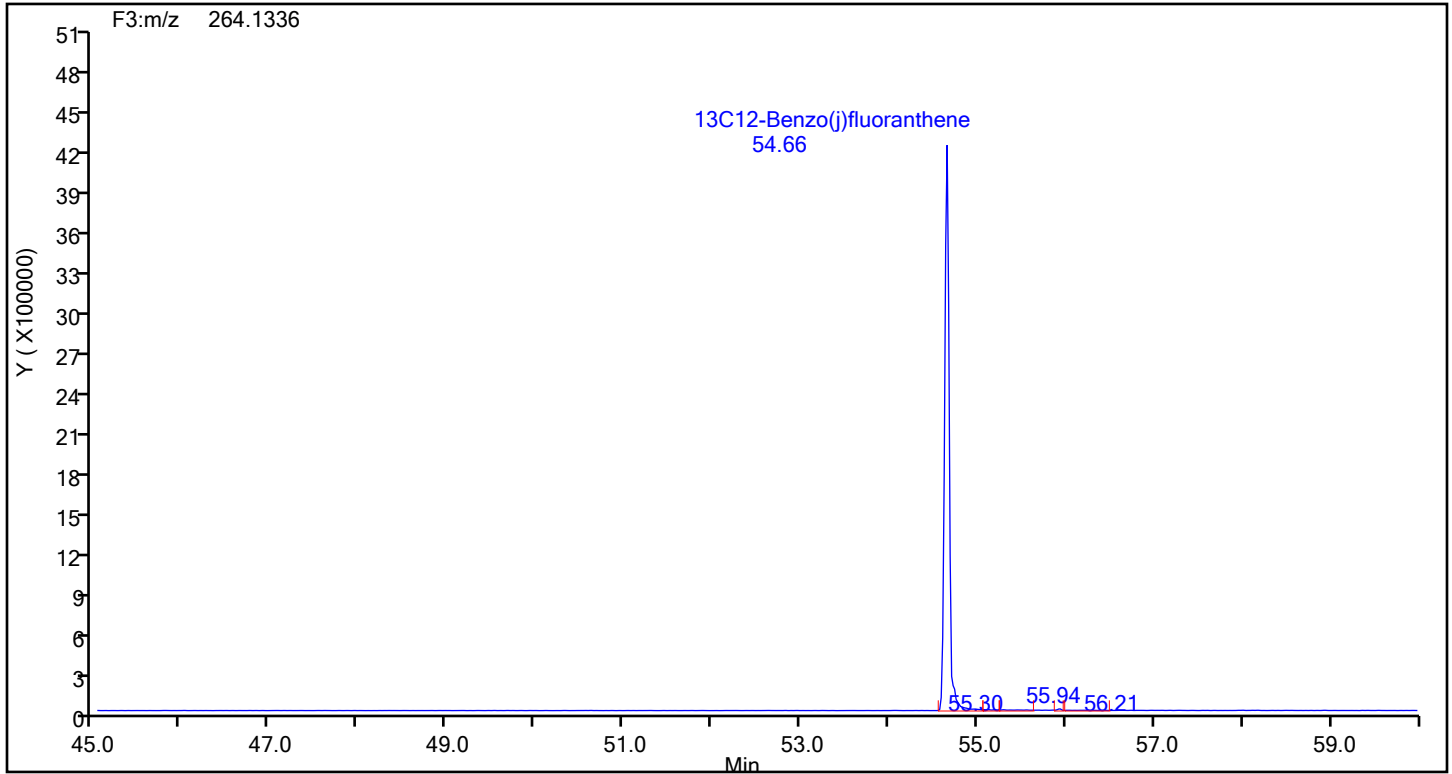
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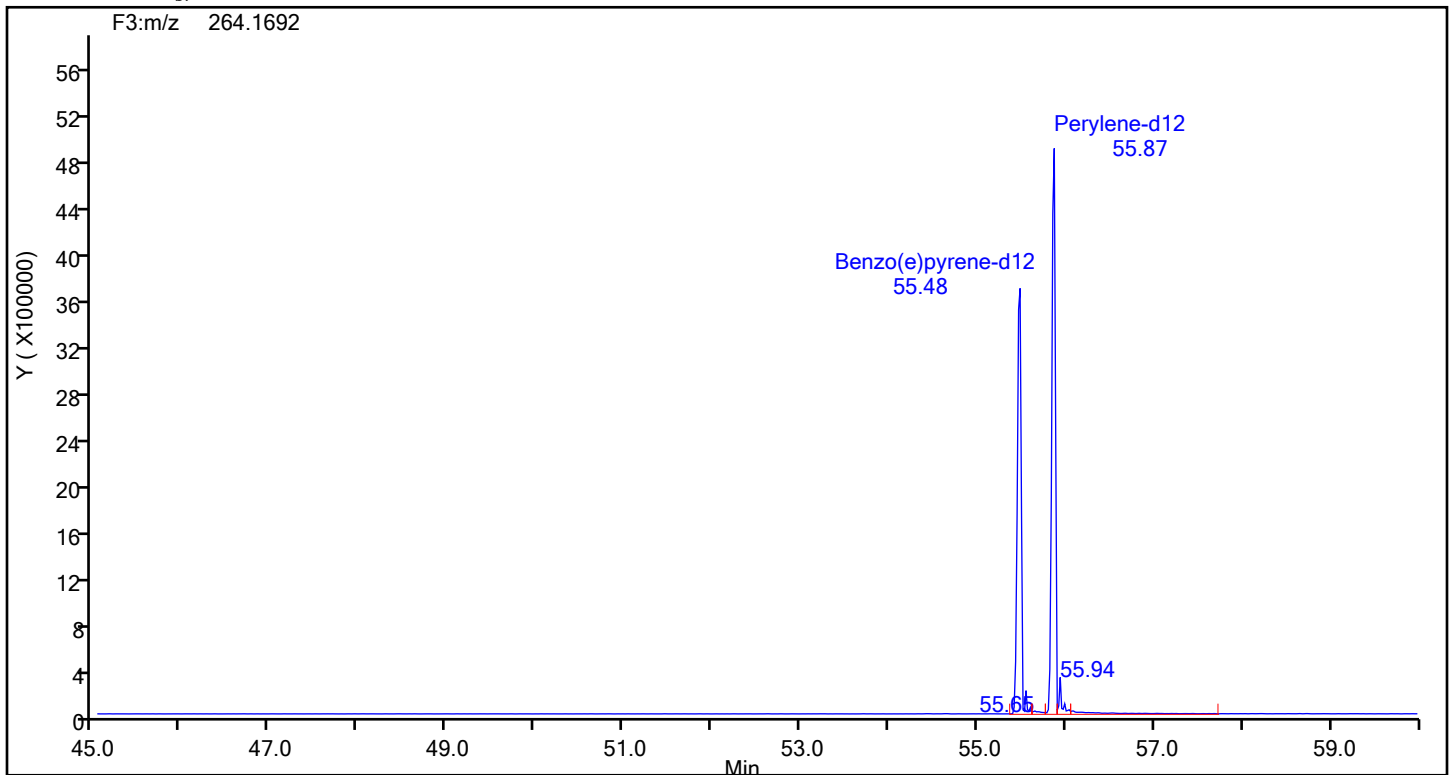
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d

Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

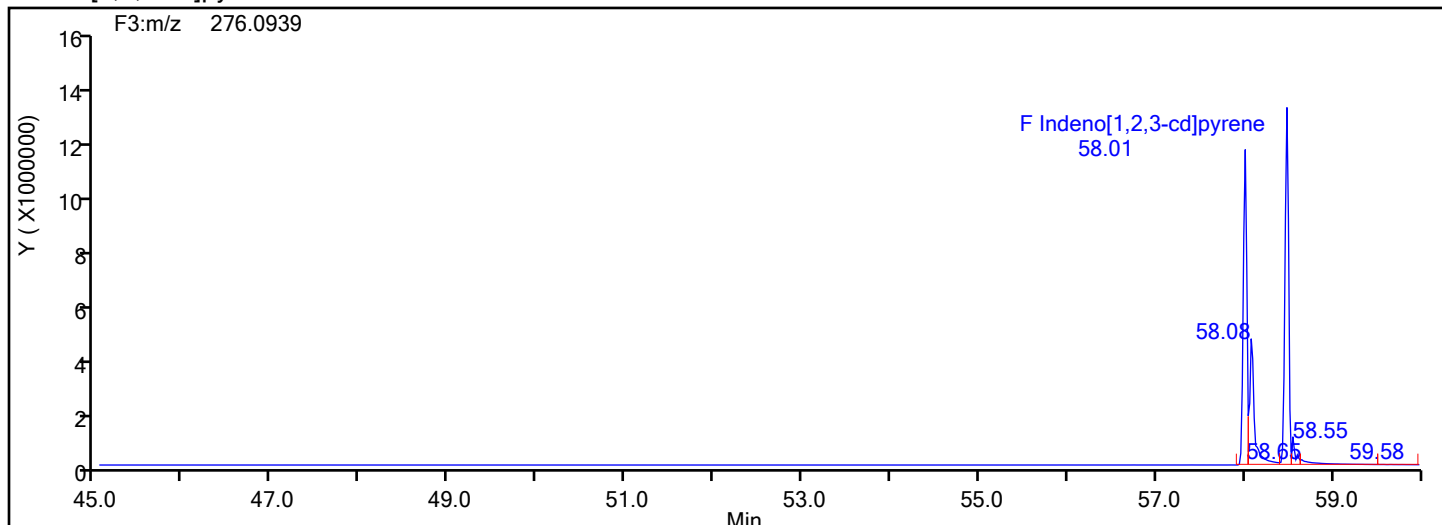
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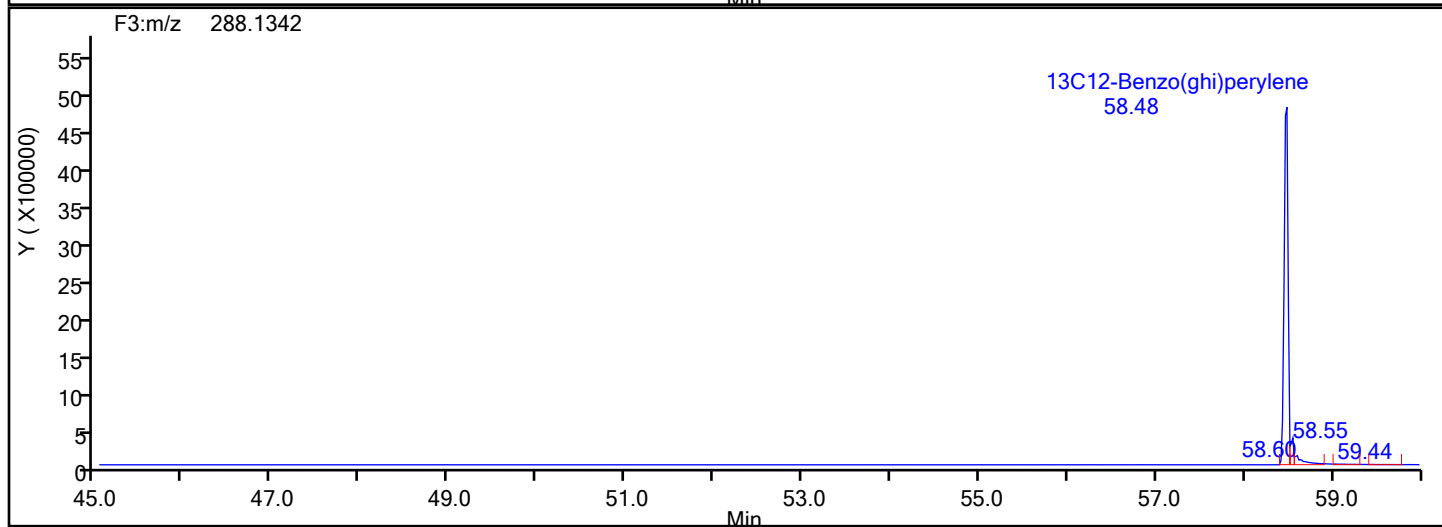
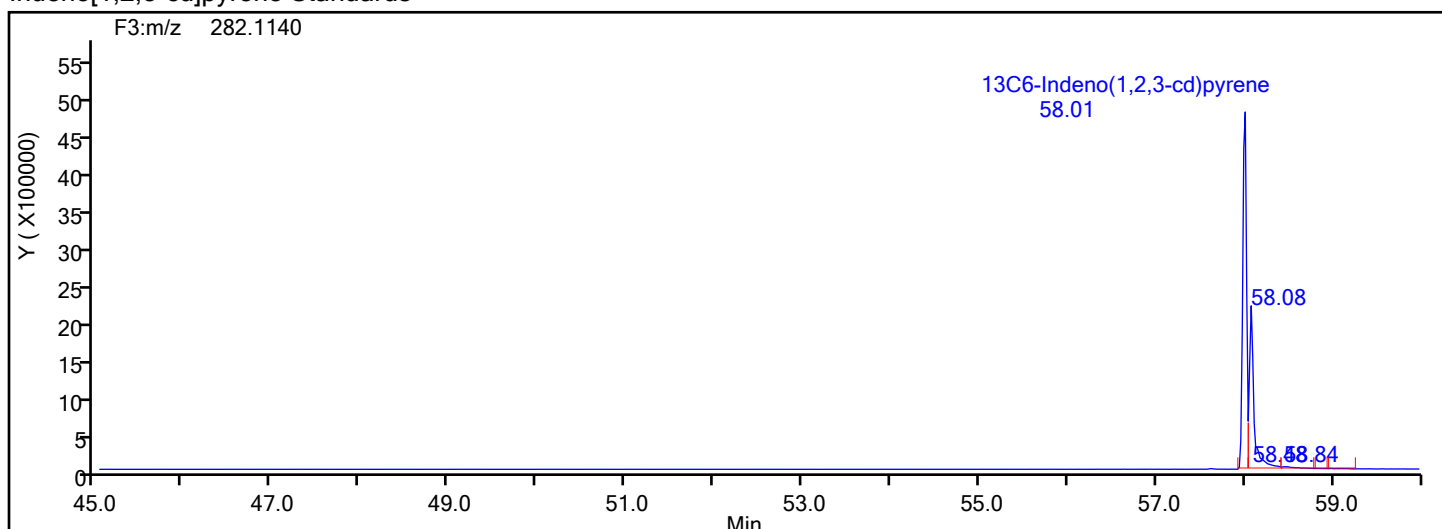
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

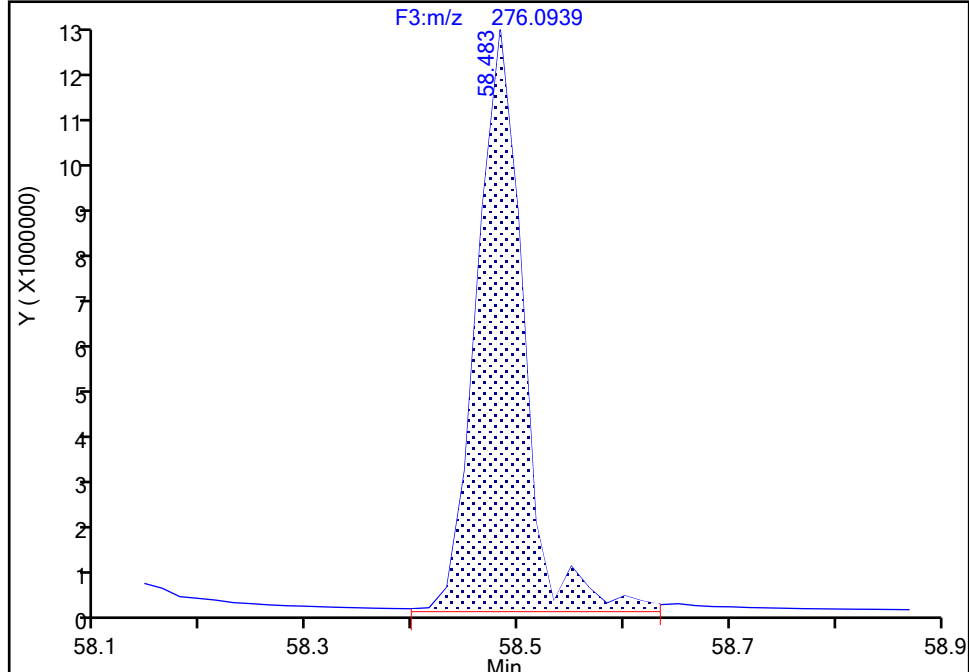
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d
Injection Date: 21-Jun-2024 16:12:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

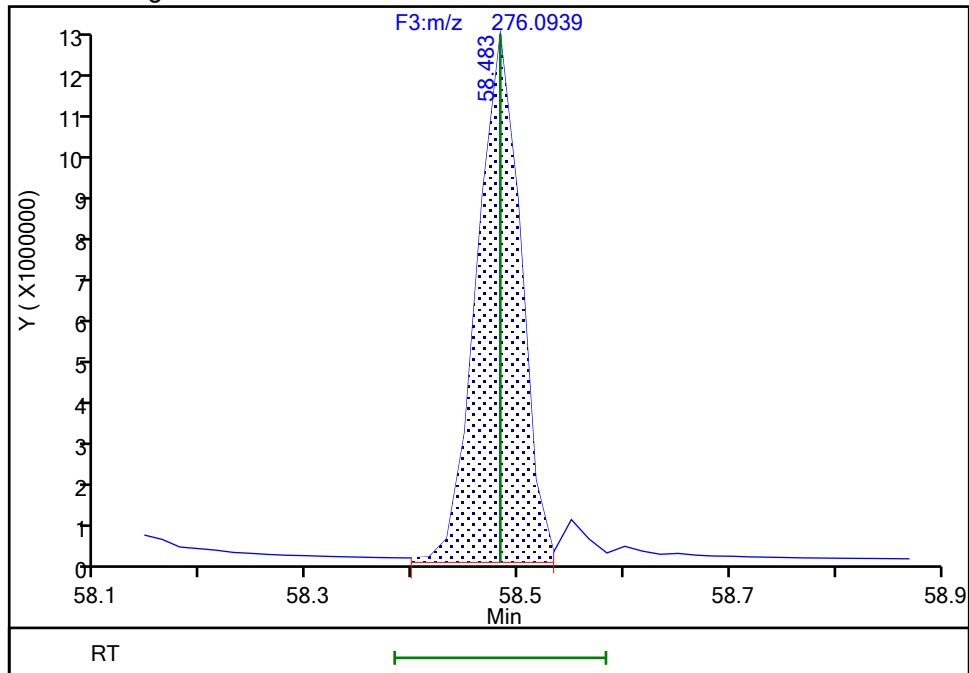
RT: 58.48
Area: 38489447
Amount: 202.8912
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 36108138
Amount: 190.3385
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 17:25:31 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d

Injection Date: 21-Jun-2024 16:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

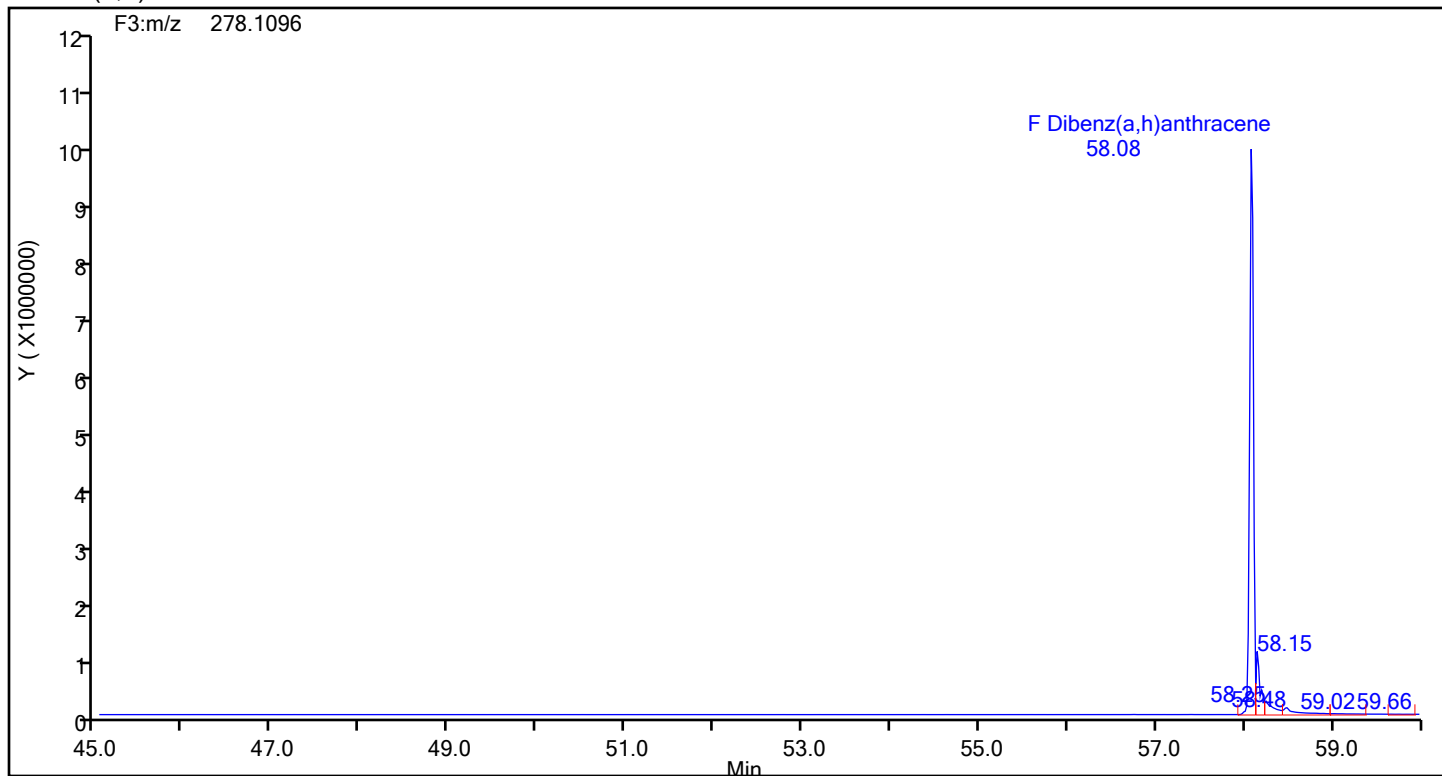
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Sample Line#: 1

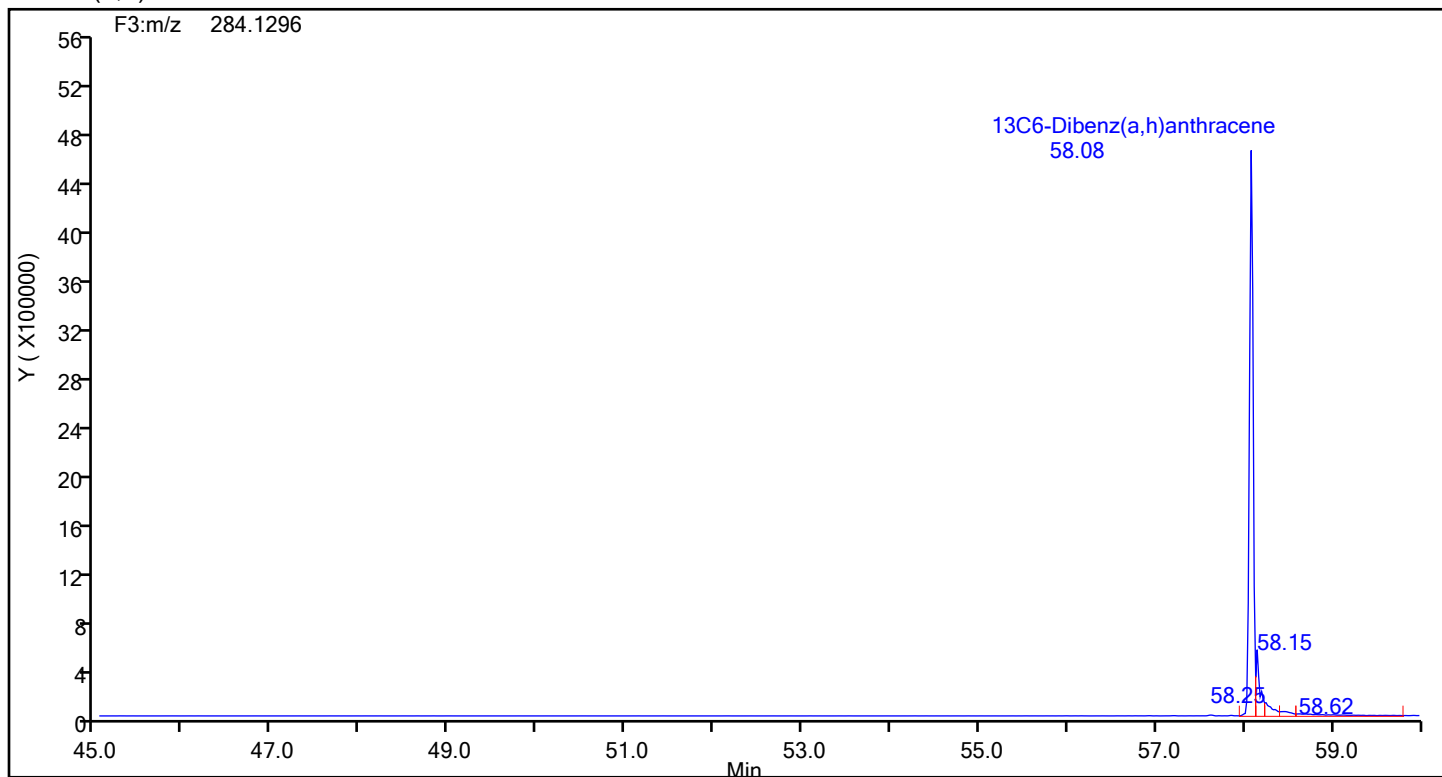
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

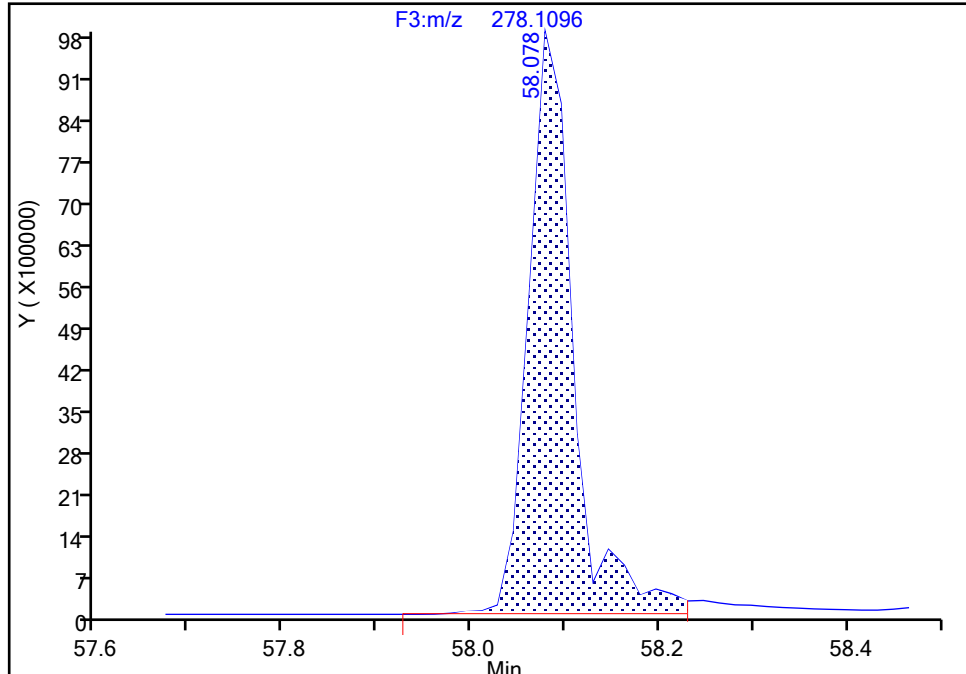
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d
Injection Date: 21-Jun-2024 16:12:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

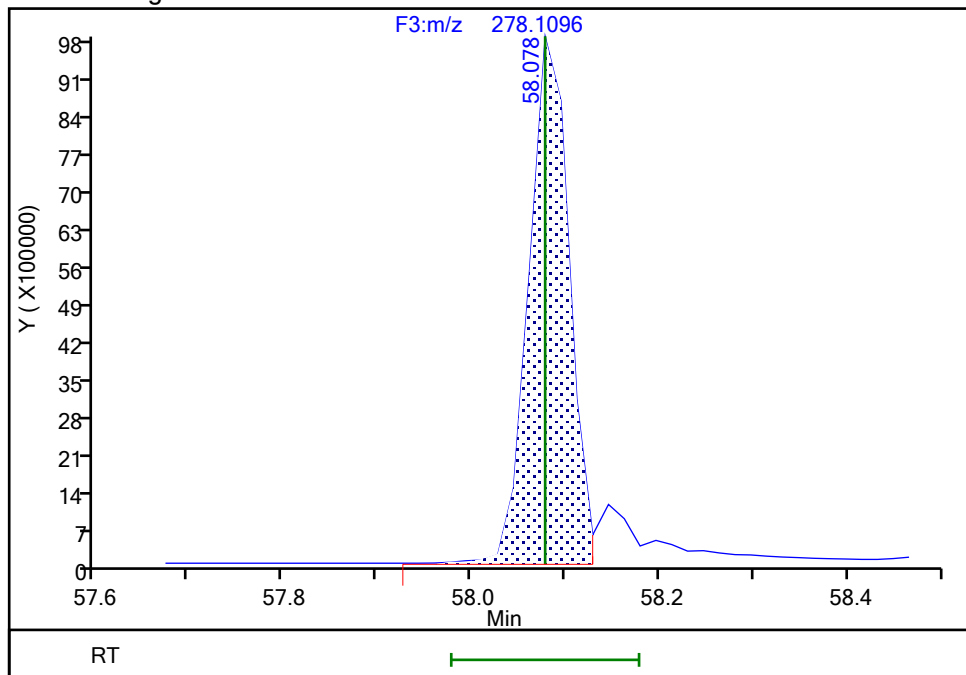
RT: 58.08
Area: 32893149
Amount: 210.4819
Amount Units: pg/ul

Processing Integration Results



RT: 58.08
Area: 29680183
Amount: 189.9223
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 17:25:20 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

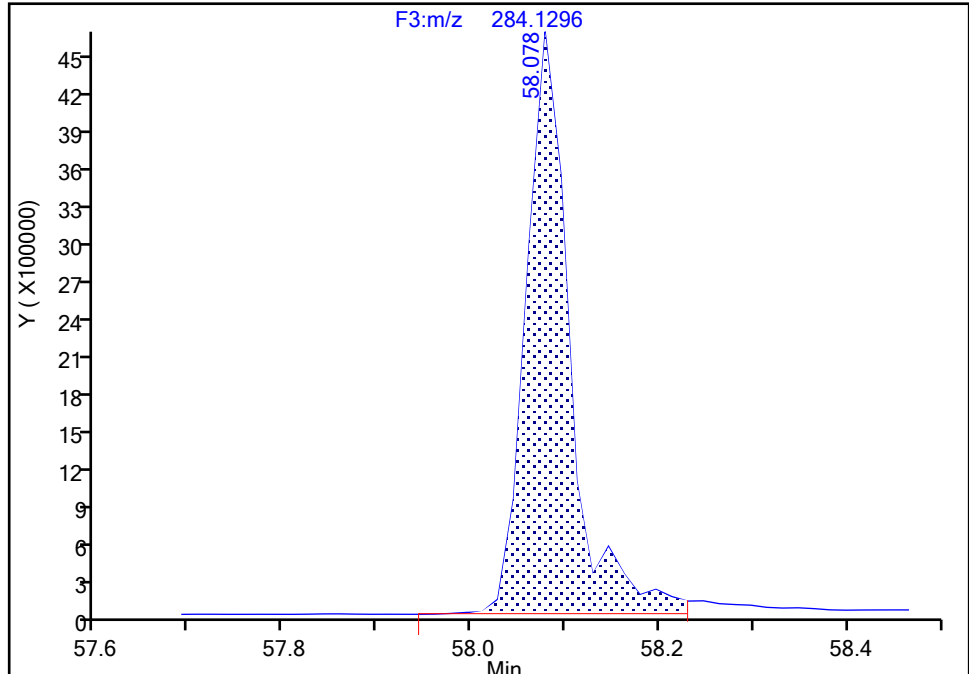
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240621-33215.b\d3240621c1c_20240621160938.d
Injection Date: 21-Jun-2024 16:12:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

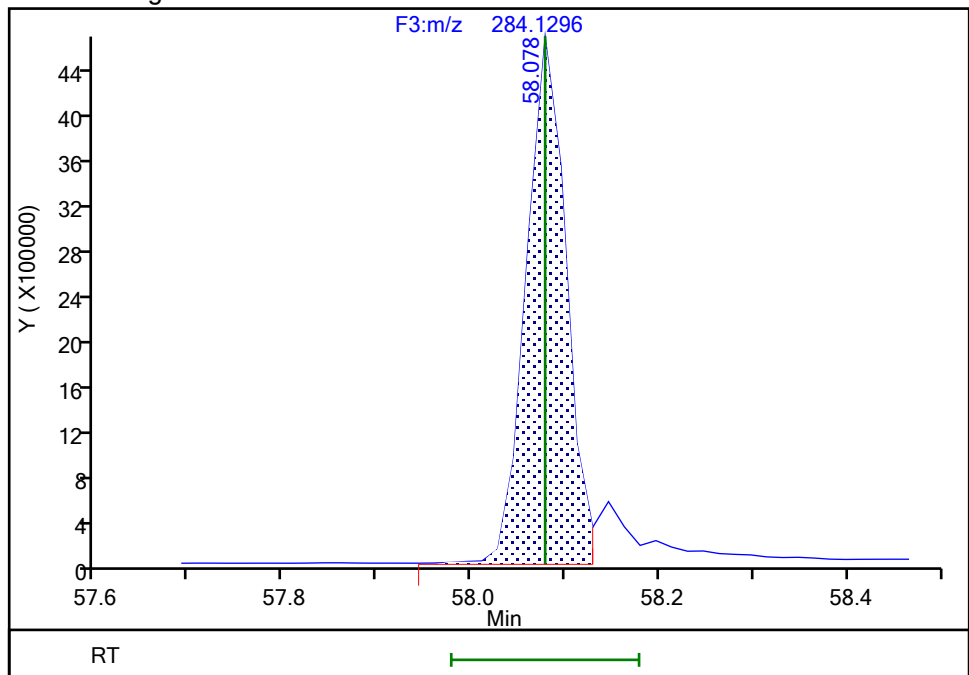
RT: 58.08
Area: 15254374
Amount: 124.1909
Amount Units: pg/ul

Processing Integration Results



RT: 58.08
Area: 13812892
Amount: 112.4554
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 17:25:11 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Incomplete Integration

FORM VII
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: CCV 140-88048/1 Calibration Date: 06/24/2024 22:40

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240624c1c.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.176		183	200	-8.8	25.0
2-Methylnaphthalene	AveID	1.279	1.177		184	200	-7.9	25.0
Acenaphthylene	AveID	2.366	2.116		179	200	-10.6	25.0
Acenaphthene	AveID	1.270	1.170		184	200	-7.9	25.0
Fluorene	AveID	1.253	1.237		197	200	-1.3	25.0
Phenanthrene	AveID	1.104	1.021		185	200	-7.6	25.0
Anthracene	AveID	1.359	1.218		179	200	-10.4	25.0
Fluoranthene	AveID	1.151	1.064		185	200	-7.6	25.0
Pyrene	AveID	1.065	0.9869		185	200	-7.3	25.0
Benzo[a]anthracene	AveID	0.9739	0.9229		190	200	-5.2	25.0
Chrysene	AveID	0.9815	0.9203		188	200	-6.2	25.0
Benzo[b]fluoranthene	AveID	1.125	1.051		187	200	-6.5	25.0
Benzo[k]fluoranthene	AveID	1.127	1.048		186	200	-7.0	25.0
Benzo[e]pyrene	AveID	1.001	0.9284		185	200	-7.3	25.0
Benzo[a]pyrene	AveID	1.113	0.9866		177	200	-11.4	25.0
Perylene	AveID	1.431	1.425		199	200	-0.4	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.025		181	200	-9.4	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.034		184	200	-8.1	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.179		184	200	-8.2	25.0
13C6-Naphthalene	Ave	3.375	2.949		87.4	100	-12.6	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.376		85.9	100	-14.1	30.0
13C6-Acenaphthylene	Ave	1.652	1.542		93.3	100	-6.7	30.0
13C6-Acenaphthene	Ave	0.9792	0.9518		97.2	100	-2.8	30.0
13C6-Fluorene	Ave	0.8898	0.8959		101	100	0.7	30.0
13C6-Phenanthrene	Ave	0.5724	0.6205		108	100	8.4	30.0
13C6-Anthracene	Ave	0.4523	0.5019		111	100	10.9	30.0
13C6-Fluoranthrene	Ave	1.199	1.161		96.8	100	-3.2	30.0
13C3-Pyrene	Ave	1.351	1.330		98.4	100	-1.6	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.485		97.8	100	-2.2	30.0
13C6-Chrysene	Ave	1.629	1.578		96.9	100	-3.1	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.542		106	100	5.5	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.809		103	100	3.4	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.695		104	100	3.5	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.584		102	100	2.2	30.0
Perylene-d12	Ave	1.192	1.183		99.2	100	-0.8	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.152		109	100	9.1	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	0.8215		80.4	100	-19.6	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.527		120	100	19.8	30.0

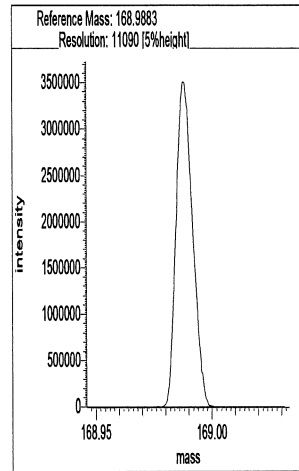
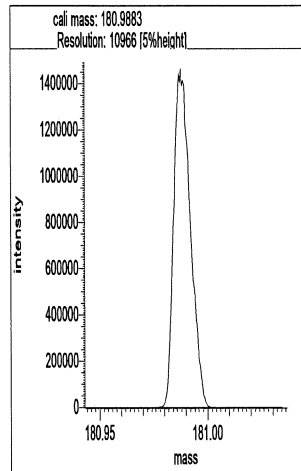
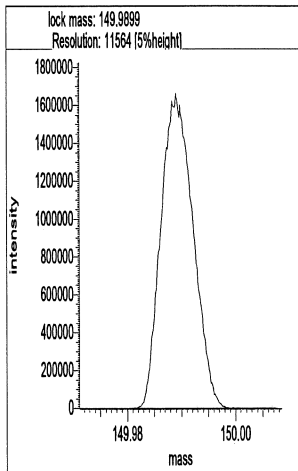
Resolution Check Report (DFS SN: 3439)

Date: 24 Jun 2024 22:29
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

-d3240624r4

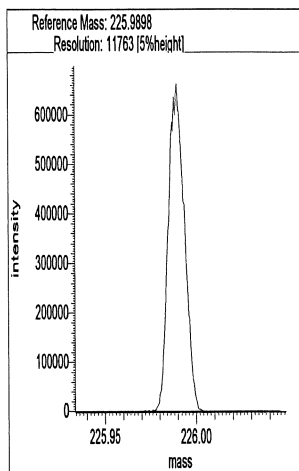
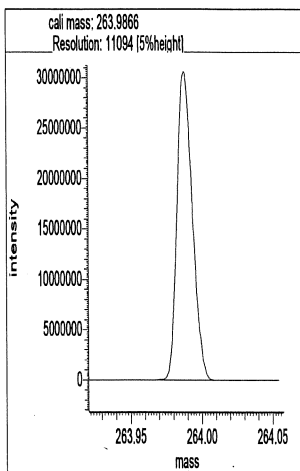
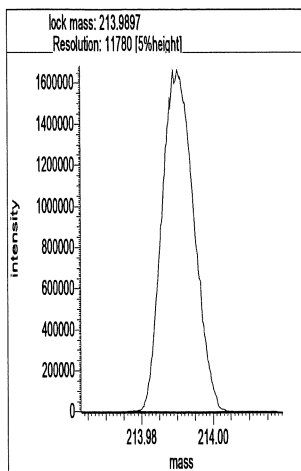
Segment 1

Lock mass 149.9899 [m/z] Resolution: 11564 [5%height]
Cali. mass 180.9883 [m/z] Resolution: 10966 [5%height]
Ref. mass 168.9883 [m/z] Resolution: 11090 [5%height]



Segment 2

Lock mass 213.9897 [m/z] Resolution: 11780 [5%height]
Cali. mass 263.9866 [m/z] Resolution: 11094 [5%height]
Ref. mass 225.9898 [m/z] Resolution: 11763 [5%height]

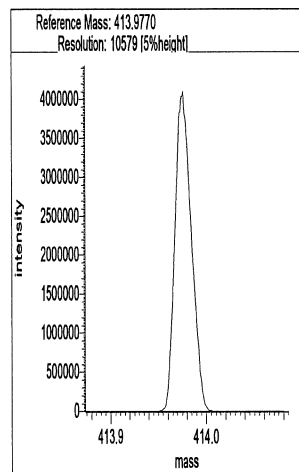
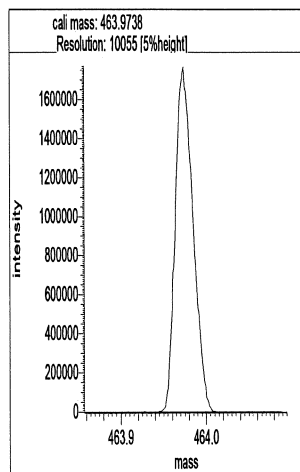
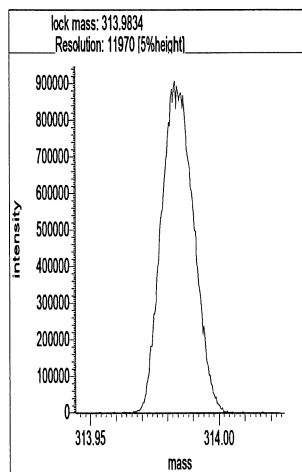


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11970 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 10055 [5%height]

Ref. mass 413.9770 [m/z] Resolution: 10579 [5%height]



Reports

22:37:01: Peak matching procedure started
22:37:01:
22:37:02: Reference mass: 263.98656
22:37:02: Sample mass: 414.0
22:37:03:
22:37:03: Finding reference mass
22:37:04: Finding sample mass
22:37:05:
22:37:10: [1] 413.9572 amu, mean: 413.9572
22:37:13: [2] 413.9570 amu, mean: 413.9571 SD: 0.15 mmu or: 0.35 ppm
22:37:17: [3] 413.9573 amu, mean: 413.9572 SD: 0.13 mmu or: 0.32 ppm
22:37:20: [4] 413.9571 amu, mean: 413.9572 SD: 0.11 mmu or: 0.27 ppm
22:37:23: [5] 413.9573 amu, mean: 413.9572 SD: 0.13 mmu or: 0.31 ppm
22:37:26: [6] 413.9569 amu, mean: 413.9572 SD: 0.16 mmu or: 0.38 ppm
22:37:29: [7] 413.9568 amu, mean: 413.9571 SD: 0.20 mmu or: 0.49 ppm
22:37:32: [8] 413.9565 amu, mean: 413.9570 SD: 0.29 mmu or: 0.71 ppm
22:37:35: [9] 413.9564 amu, mean: 413.9570 SD: 0.34 mmu or: 0.82 ppm
22:37:39: [10] 413.9552 amu, mean: 413.9568 SD: 0.63 mmu or: 1.53 ppm
22:37:42: [11] 413.9559 amu, mean: 413.9567 SD: 0.65 mmu or: 1.58 ppm
22:37:42:
22:37:42: Stop requested. Please wait for procedure to finish.
22:37:42:
22:37:45:
22:37:45: Peakmatching stopped

Signature

 6-24-24

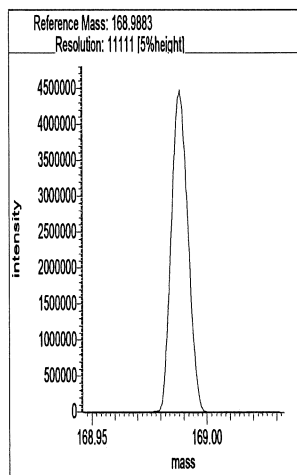
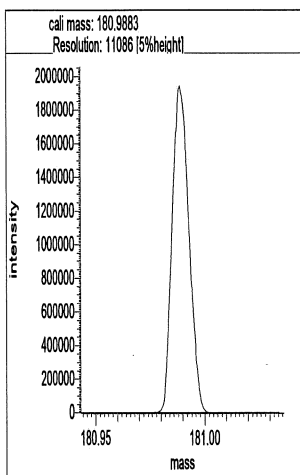
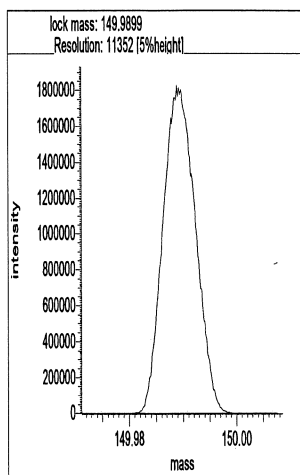
Resolution Check Report (DFS SN: 3439)

Date: 25 Jun 2024 09:21
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

Segment 1

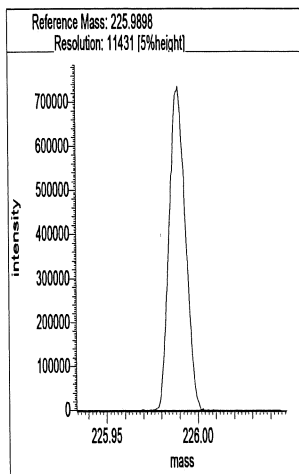
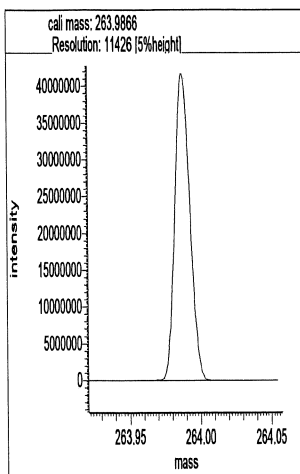
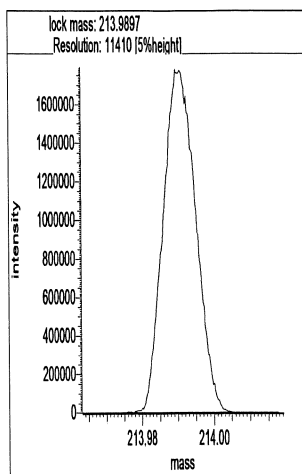
Lock mass 149.9899 [m/z] Resolution: 11352 [5%height]
Cali. mass 180.9883 [m/z] Resolution: 11086 [5%height]
Ref. mass 168.9883 [m/z] Resolution: 11111 [5%height]

-d 3240625r1



Segment 2

Lock mass 213.9897 [m/z] Resolution: 11410 [5%height]
Cali. mass 263.9866 [m/z] Resolution: 11426 [5%height]
Ref. mass 225.9898 [m/z] Resolution: 11431 [5%height]

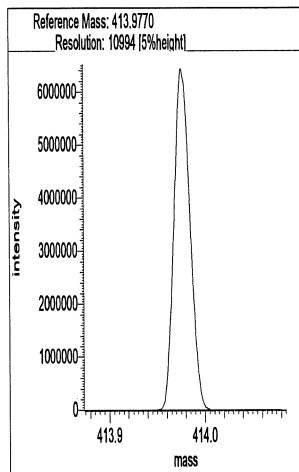
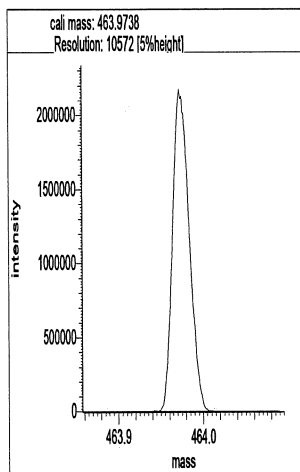
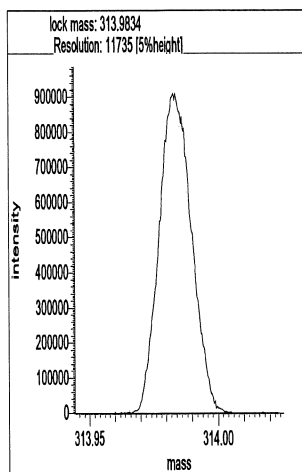


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11735 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 10572 [5%height]

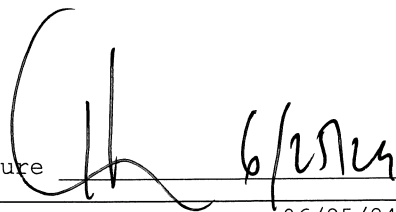
Ref. mass 413.9770 [m/z] Resolution: 10994 [5%height]



Reports

09:29:05: Peak matching procedure started
09:29:06:
09:29:06: Reference mass: 263.98656
09:29:07: Sample mass: 414.0
09:29:07:
09:29:08: Finding reference mass
09:29:09: Finding sample mass
09:29:09:
09:29:15: [1] 413.9612 amu, mean: 413.9612 SD: 0.16 mmu or: 0.38 ppm
09:29:18: [2] 413.9615 amu, mean: 413.9614 SD: 0.32 mmu or: 0.77 ppm
09:29:21: [3] 413.9619 amu, mean: 413.9615 SD: 0.31 mmu or: 0.76 ppm
09:29:25: [4] 413.9619 amu, mean: 413.9616 SD: 0.27 mmu or: 0.66 ppm
09:29:28: [5] 413.9615 amu, mean: 413.9616 SD: 0.30 mmu or: 0.72 ppm
09:29:31: [6] 413.9612 amu, mean: 413.9615 SD: 0.28 mmu or: 0.69 ppm
09:29:34: [7] 413.9613 amu, mean: 413.9615 SD: 0.41 mmu or: 1.00 ppm
09:29:37: [8] 413.9606 amu, mean: 413.9614 SD: 0.48 mmu or: 1.16 ppm
09:29:40: [9] 413.9605 amu, mean: 413.9613 SD: 0.53 mmu or: 1.27 ppm
09:29:43: [10] 413.9604 amu, mean: 413.9612 SD: 0.54 mmu or: 1.30 ppm
09:29:47: [11] 413.9605 amu, mean: 413.9611
09:29:47:
09:29:47: Stop requested. Please wait for procedure to finish.
09:29:47:
09:29:50:
09:29:50: Peakmatching stopped

Signature



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 24-Jun-2024 22:40:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033236-001
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 25-Jun-2024 00:03:25 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1675

First Level Reviewer: V4XA

Date: 25-Jun-2024 00:03:25

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:31	10783862		3.3746	87.4	87.4	0.0132	0.0132	87.39	
Naphthalene	11:32	25371731		1.2893	182.5	182.5	0.0341	0.0341	91.24	
D 13C6-2-Methylnaphthalene	13:51	5033585		1.6031	85.9	85.9	0.004987	0.004987	85.86	
2-Methylnaphthalene	13:52	11848906		1.2786	184.1	184.1	0.0174	0.0174	92.06	
D 13C6-Acenaphthylene	16:44	5638065		1.6520	93.3	93.3	0.007212	0.007212	93.32	
Acenaphthylene	16:44	14728088		2.3661	178.8	178.8	0.0211	0.0211	89.42	
* Acenaphthene-d10	17:18	3656945		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	3480682		0.9792	97.2	97.2	0.009606	0.009606	97.20	
Acenaphthene	17:26	8141325		1.2697	184.2	184.2	0.0249	0.0249	92.11	
Fluorene	19:43	8103668		1.2532	197.4	197.4	0.0256	0.0256	98.68	
D 13C6-Fluorene	19:43	3276431		0.8898	100.7	100.7	0.005285	0.005285	101	
D 13C6-Phenanthrene	25:06	5214686		0.5724	108.4	108.4	0.005680	0.005680	108	
Phenanthrene	25:07	10645073		1.1044	184.8	184.8	0.0283	0.0283	92.42	
\$ Anthracin-d10	25:20	3957375		0.4257	110.6	110.6	0.001469	0.001469	111	
D 13C6-Anthracene	25:26	4217534		0.4523	110.9	110.9	0.007188	0.007188	111	
Anthracene	25:27	10269967		1.3586	179.2	179.2	0.0299	0.0299	89.62	
D 13C6-Fluoranthrene	33:51	9755141		1.1994	96.8	96.8	0.0181	0.0181	96.78	
Fluoranthrene	33:52	20765603		1.1513	184.9	184.9	0.0137	0.0137	92.45	
* Pyrene-d10	35:24	8403952		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:33	11178219		1.3512	98.4	98.4	0.0155	0.0155	98.44	
Pyrene	35:33	22063956		1.0652	185.3	185.3	0.0135	0.0135	92.65	
\$ 13C6-Benzo(c)fluorene	39:14	4579146		0.5136	106.1	106.1	0.007548	0.007548	106	
D 13C6-Benzo(a)anthracene	46:04	8935247		1.5189	97.8	97.8	0.0144	0.0144	97.79	
Benzo[a]anthracene	46:04	16492305		0.9739	189.5	189.5	0.0267	0.0267	94.77	
D 13C6-Chrysene	46:20	9489911		1.6287	96.9	96.9	0.0134	0.0134	96.86	
Chrysene	46:20	17466702		0.9815	187.5	187.5	0.0259	0.0259	93.77	
D 13C6-Benzo(b)fluoranthene	54:37	9276564		1.4621	105.5	105.5	0.002419	0.002419	105	a
Benzo[b]fluoranthene	54:37	19506322		1.1249	186.9	186.9	0.005078	0.005078	93.46	a
\$ 13C12-Benzo(j)fluoranthene	54:39	8225683		1.3558	100.9	100.9	0.0326	0.0326	101	
D 13C6-Benzo(k)fluoranthene	54:44	10885101		1.7507	103.4	103.4	0.002020	0.002020	103	
Benzo[k]fluoranthene	54:44	22814155		1.1271	186.0	186.0	0.004717	0.004717	92.98	
* Benzo(e)pyrene-d12	55:28	6015680		5.7E+04	100.0	100.0				a
D 13C4-Benzo(e)pyrene	55:33	10194491		1.6368	103.5	103.5	0.0119	0.0119	104	a

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:33	18929406		1.0013	185.4	185.4	0.004250	0.004250	92.72	a
Benzo[a]pyrene	55:41	18807499		1.1130	177.3	177.3	0.004501	0.004501	88.64	a
D 13C4-Benzo(a)pyrene	55:41	9531212		1.5508	102.2	102.2	0.0125	0.0125	102	a
D Perylene-d12	55:51	7114476		1.1917	99.2	99.2	0.0312	0.0312	99.24	a
Perylene	55:55	20282878		1.4307	199.3	199.3	0.004326	0.004326	99.64	a
D 13C6-Indeno(1,2,3-cd)pyrene	58:04	4941833		1.0218	80.4	80.4	0.009000	0.009000	80.39	
Indeno[1,2,3-cd]pyrene	58:04	10218077		1.1249	183.8	183.8	0.009714	0.009714	91.90	
D 13C6-Dibenz(a,h)anthracene	58:04	6927965		1.0553	109.1	109.1	0.005986	0.005986	109	M
Dibenz(a,h)anthracene	58:04	14199192		1.1314	181.2	181.2	0.003778	0.003778	90.58	M
D 13C12-Benzo(ghi)perylene	58:28	9183957		1.2749	119.8	119.8	0.006342	0.006342	120	
Benzo[g,h,i]perylene	58:29	21648458		1.2838	183.6	183.6	0.003627	0.003627	91.81	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61HRPAHCS5a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 24-Jun-2024 22:40:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033236-001
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 25-Jun-2024 00:03:25 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1675

First Level Reviewer: V4XA

Date: 25-Jun-2024 00:03:25

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:31	11:31	0	0.666	10783862	3583309	227	567	15786		
Naphthalene											
128.0626	11:32	11:32	0	1.001	25371731	8643886	631	1577	13699		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:51	0	0.800	5033585	2268090	41	102	55319		
2-Methylnaphthalene											
142.0783	13:52	13:52	0	1.001	11848906	5400653	202	505	26736		
13C6-Acenaphthylene											
158.0828	16:44	16:44	0	0.967	5638065	1968335	61	152	32268		
Acenaphthylene											
152.0626	16:44	16:44	0	1.000	14728088	5163850	244	610	21163		
Acenaphthene-d10											
164.1404	17:18	17:18	0		3656945	1275789	31	77	41154		
13C6-Acenaphthene											
160.0984	17:26	17:26	0	1.007	3480682	1223665	48	120	25493		
Acenaphthene											
154.0783	17:26	17:26	0	1.000	8141325	2812696	155	387	18146		
Fluorene											
166.0783	19:43	19:43	0	1.000	8103668	2487312	130	325	19133		
13C6-Fluorene											
172.0984	19:43	19:43	0	1.140	3276431	1011915	24	60	42163		E
13C6-Phenanthrene											
184.0984	25:06	25:06	0	0.709	5214686	1271839	21	52	60564		E
Phenanthrene											
178.0783	25:07	25:07	0	1.000	10645073	2545331	159	397	16008		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:20	0	0.715	3957375	931730	4	10	232933		
13C6-Anthracene											
184.0984	25:26	25:26	0	0.718	4217534	977201	21	52	46533		E
Anthracene											
178.0783	25:27	25:27	0	1.000	10269967	2392420	159	397	15047		
13C6-Fluoranthrene											
208.0984	33:51	33:51	0	0.956	9755141	1936025	139	347	13928		
Fluoranthene											
202.0783	33:52	33:52	0	1.000	20765603	4291511	122	305	35176		
Pyrene-d10											
212.1404	35:24	35:24	0		8403952	1599370	66	165	24233		
13C3-Pyrene											
205.0883	35:33	35:33	0	1.004	11178219	2122458	134	335	15839		
Pyrene											
202.0783	35:33	35:33	0	1.000	22063956	4318227	122	305	35395		
13C6-Benzo(c)fluorene											
222.1134	39:14	39:14	0	0.708	4579146	874869	25	62	34995		
13C6-Benzo(a)anthracene											
234.1140	46:04	46:04	0	1.301	8935247	1635084	173	432	9451		
Benzo[a]anthracene											
228.0939	46:04	46:04	0	1.000	16492305	2935649	170	425	17269		
13C6-Chrysene											
234.1140	46:20	46:20	0	1.309	9489911	1674279	173	432	9678		
Chrysene											
228.0939	46:20	46:20	0	1.000	17466702	3020311	170	425	17767		
13C6-Benzo(b)fluoranthene											a
258.1140	54:37	54:37	0	0.985	9276564	2573270	28	70	91903		Ea
Benzo[b]fluoranthene											a
252.0939	54:37	54:37	0	1.000	19506322	5688431	59	147	96414		a
13C12-Benzo(j)fluoranthene											
264.1336	54:39	54:39	0	0.985	8225683	2064544	350	875	5899		
13C6-Benzo(k)fluoranthene											
258.1140	54:44	54:44	0	0.987	10885101	2765150	28	70	98755		E
Benzo[k]fluoranthene											
252.0939	54:44	54:44	0	1.000	22814155	5706092	59	147	96713		
Benzo(e)pyrene-d12											a
264.1692	55:28	55:28	0		6015680	1978942	294	735	6731		a
13C4-Benzo(e)pyrene											a
256.1073	55:33	55:33	0	1.002	10194491	3454153	154	385	22430		Ea
Benzo[e]pyrene											a
252.0939	55:33	55:33	0	1.000	18929406	6530864	59	147	110693		a
Benzo[a]pyrene											a
252.0939	55:41	55:41	0	1.000	18807499	5947516	59	147	100805		a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											a
256.1073	55:41	55:41	0	1.004	9531212	2934251	154	385	19054		Ea
Perylene-d12											a
264.1692	55:51	55:51	0	1.007	7114476	2374948	294	735	8078		a
Perylene											a
252.0939	55:55	55:55	0	1.001	20282878	6641425	59	147	112567		a
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:04	58:04	0	1.047	4941833	1098126	73	182	15043		
Indeno[1,2,3-cd]pyrene											
276.0939	58:04	58:04	0	1.000	10218077	2350346	48	120	48966		
13C6-Dibenz(a,h)anthracene											M
284.1296	58:04	58:04	0	1.047	6927965	2222829	50	125	44457		EM
Dibenz(a,h)anthracene											M
278.1096	58:04	58:04	0	1.000	14199192	4604727	38	95	121177		M
13C12-Benzo(ghi)perylene											
288.1342	58:28	58:28	0	1.054	9183957	2577511	64	160	40274		E
Benzo[g,h,i]perylene											
276.0939	58:29	58:29	0	1.000	21648458	5915559	48	120	123241		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61HRPAHCS5a_00002

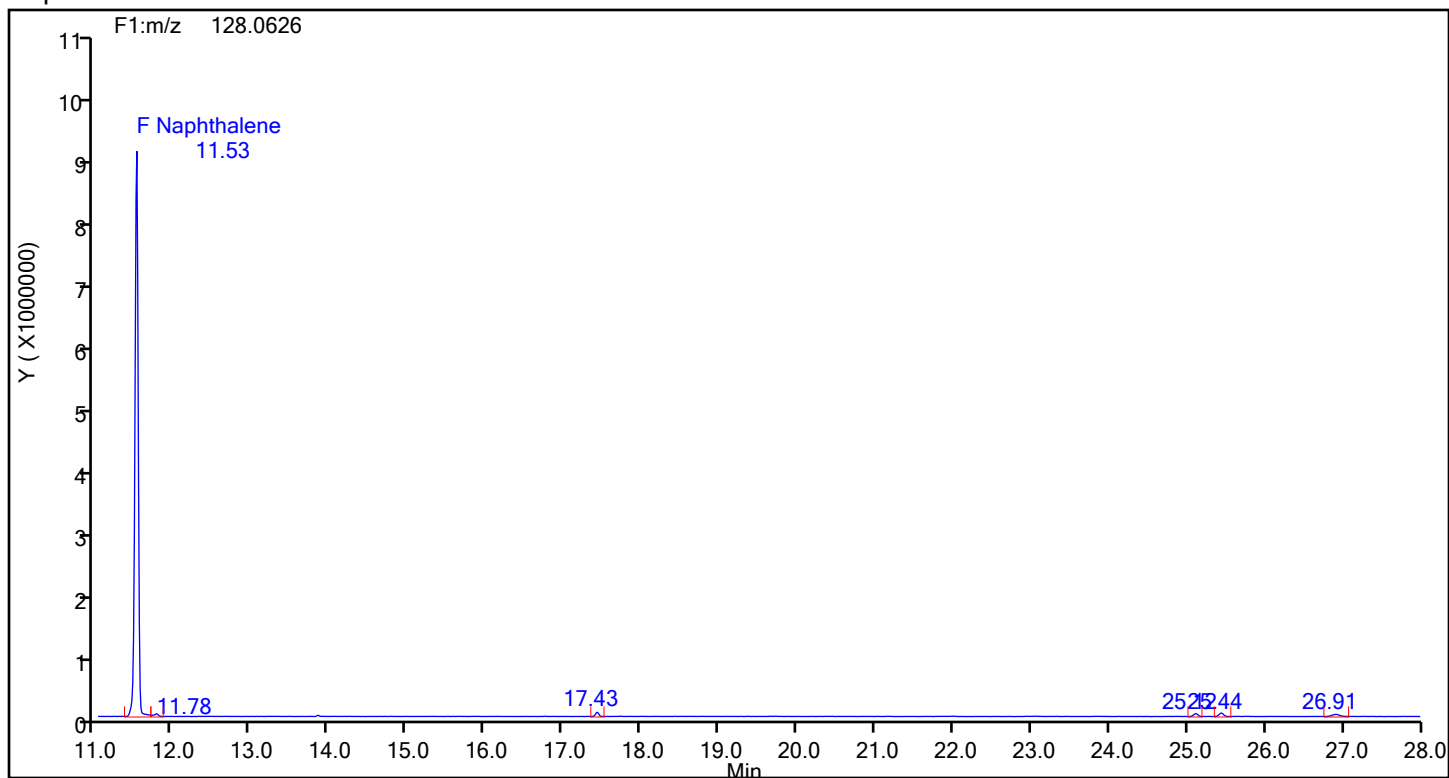
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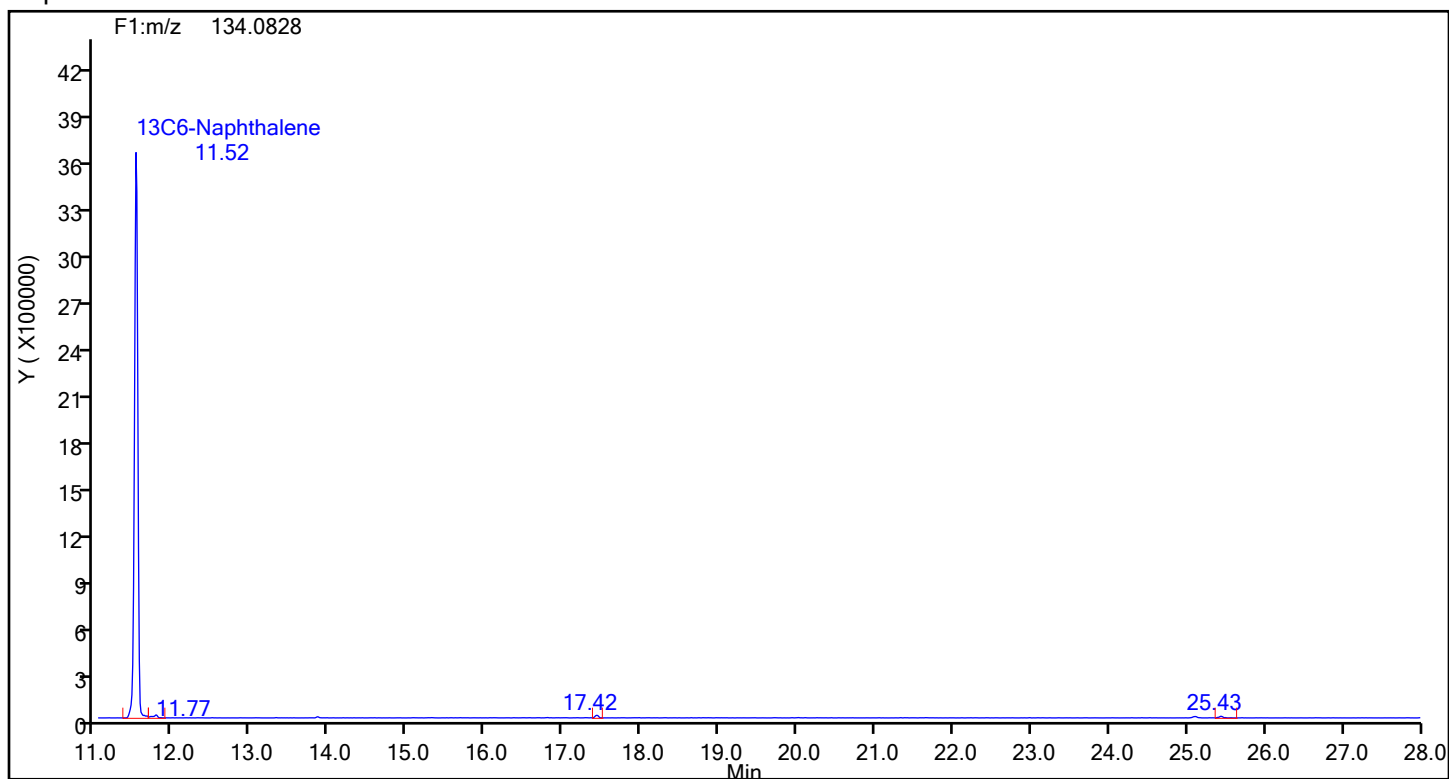
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88048 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



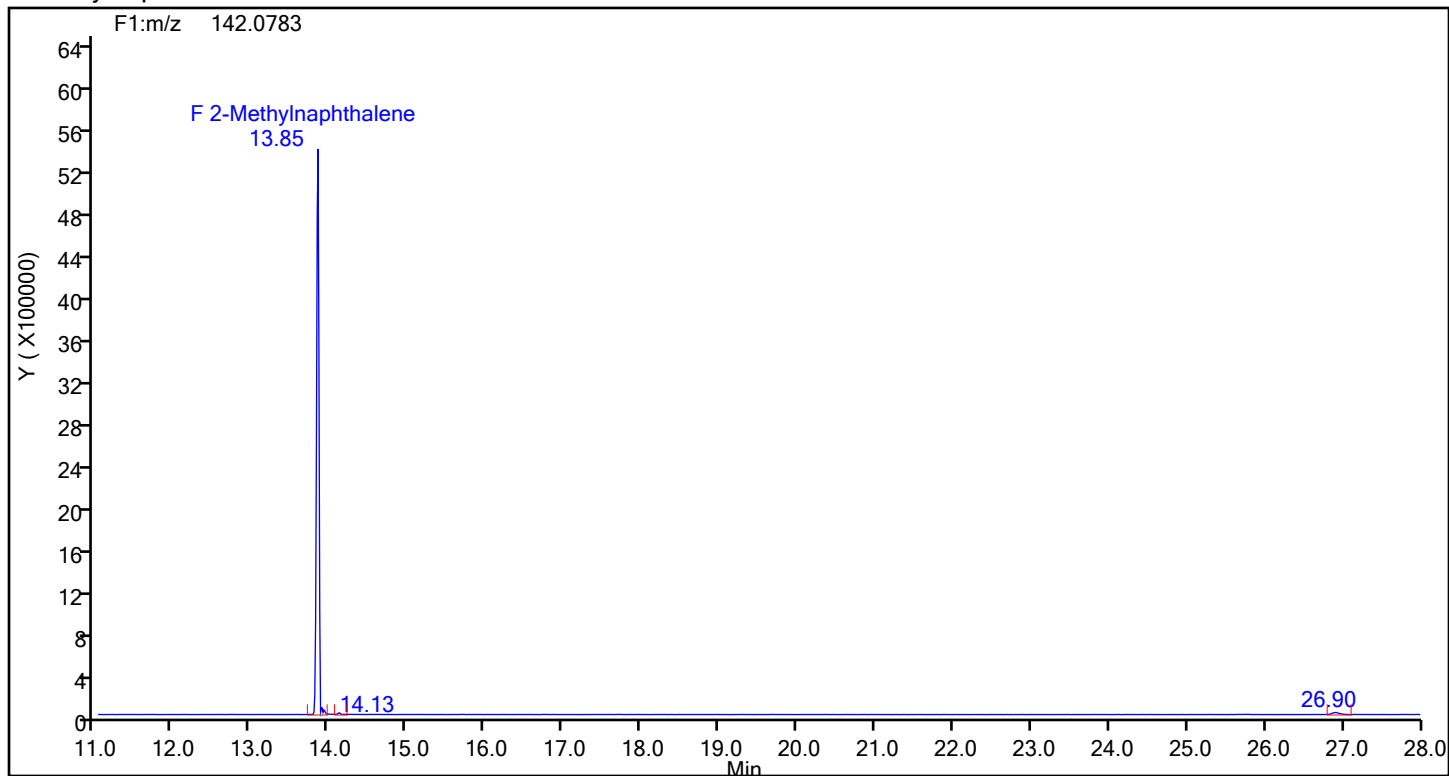
Naphthalene Standards



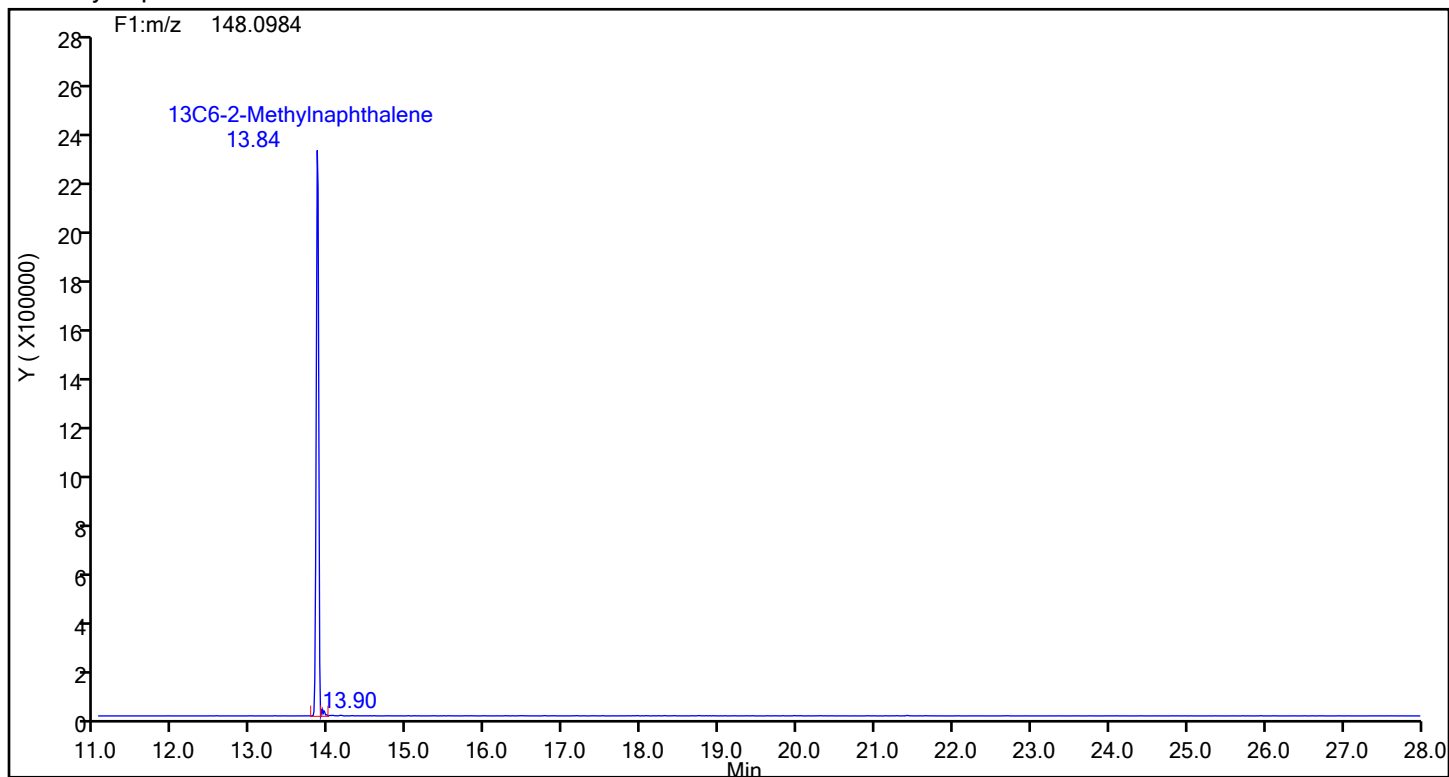
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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88048 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



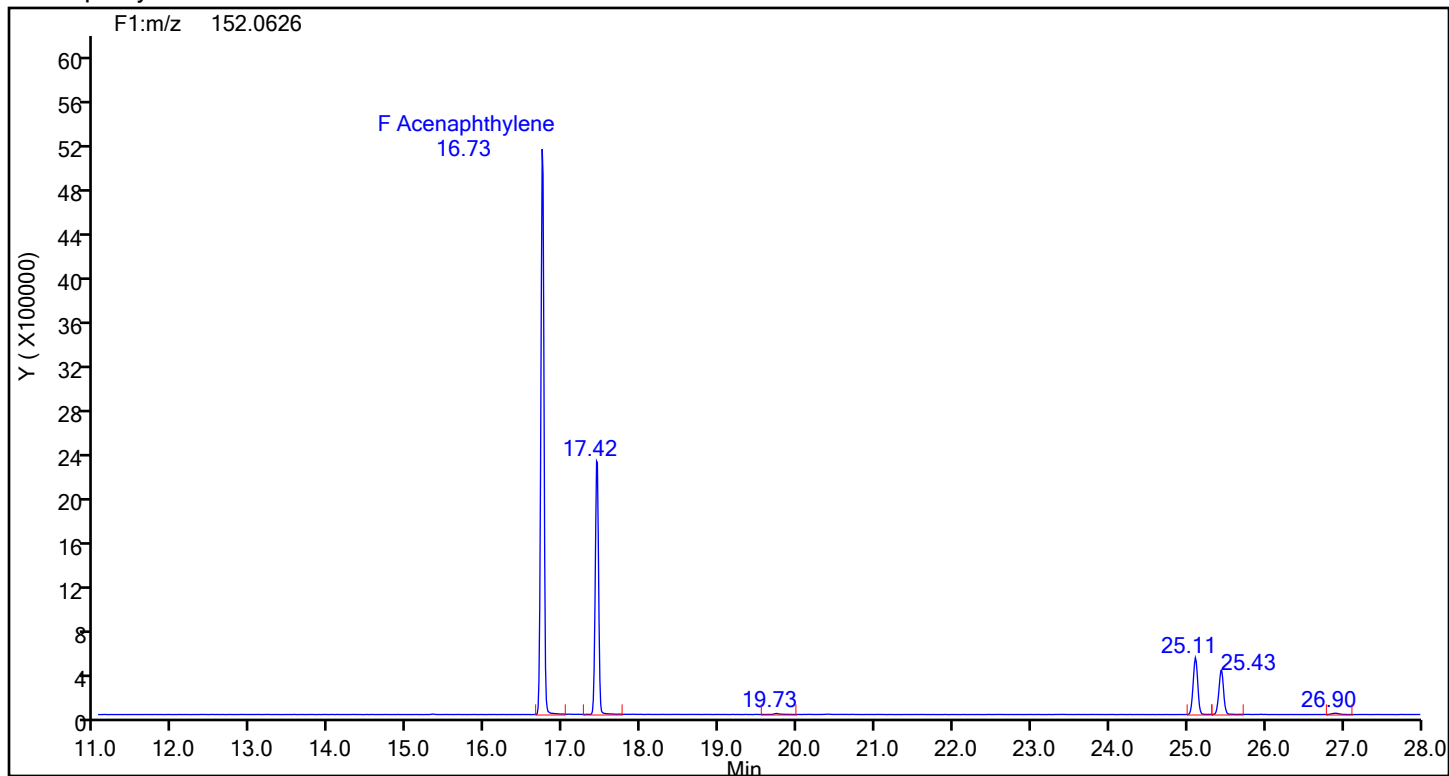
2-Methylnaphthalene Standards



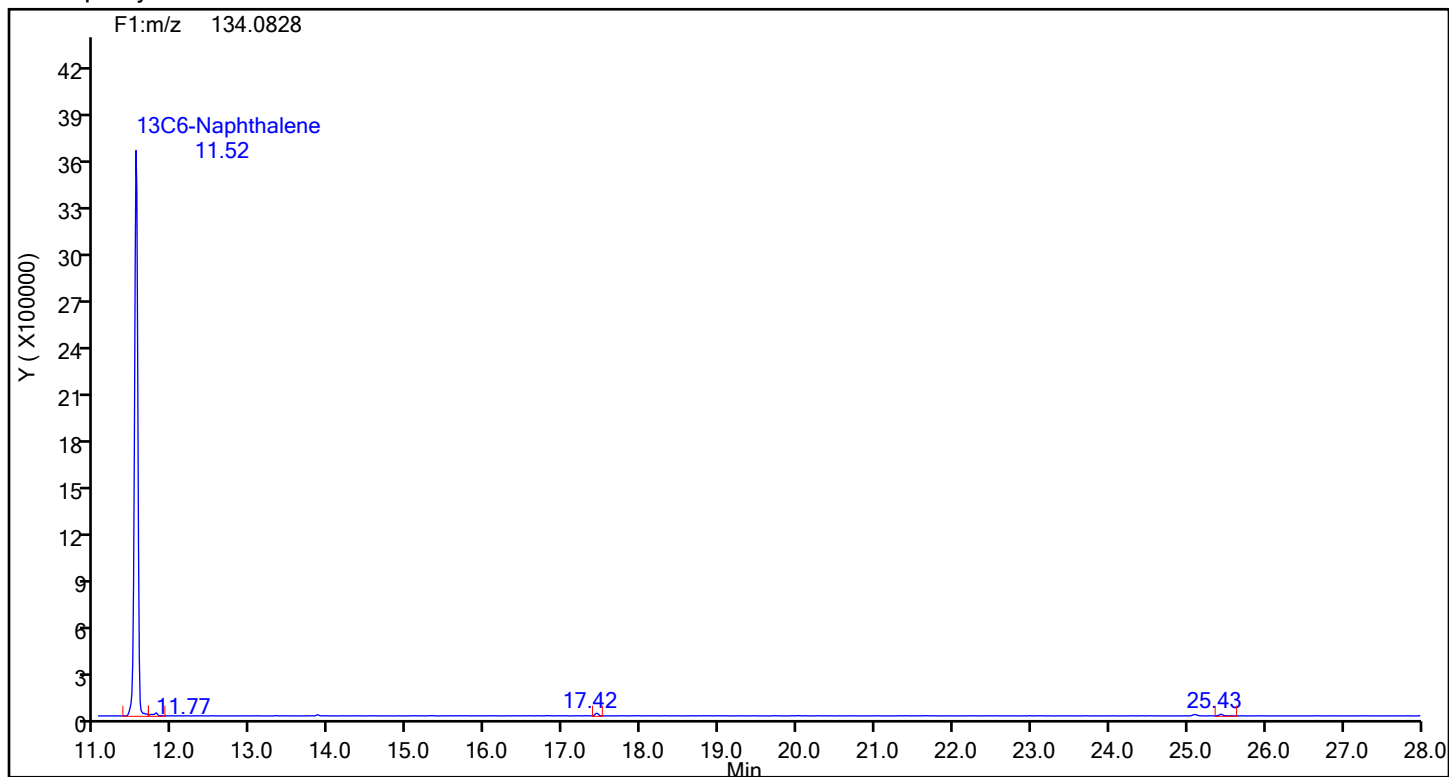
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Client ID:
Worklist#: 88048 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



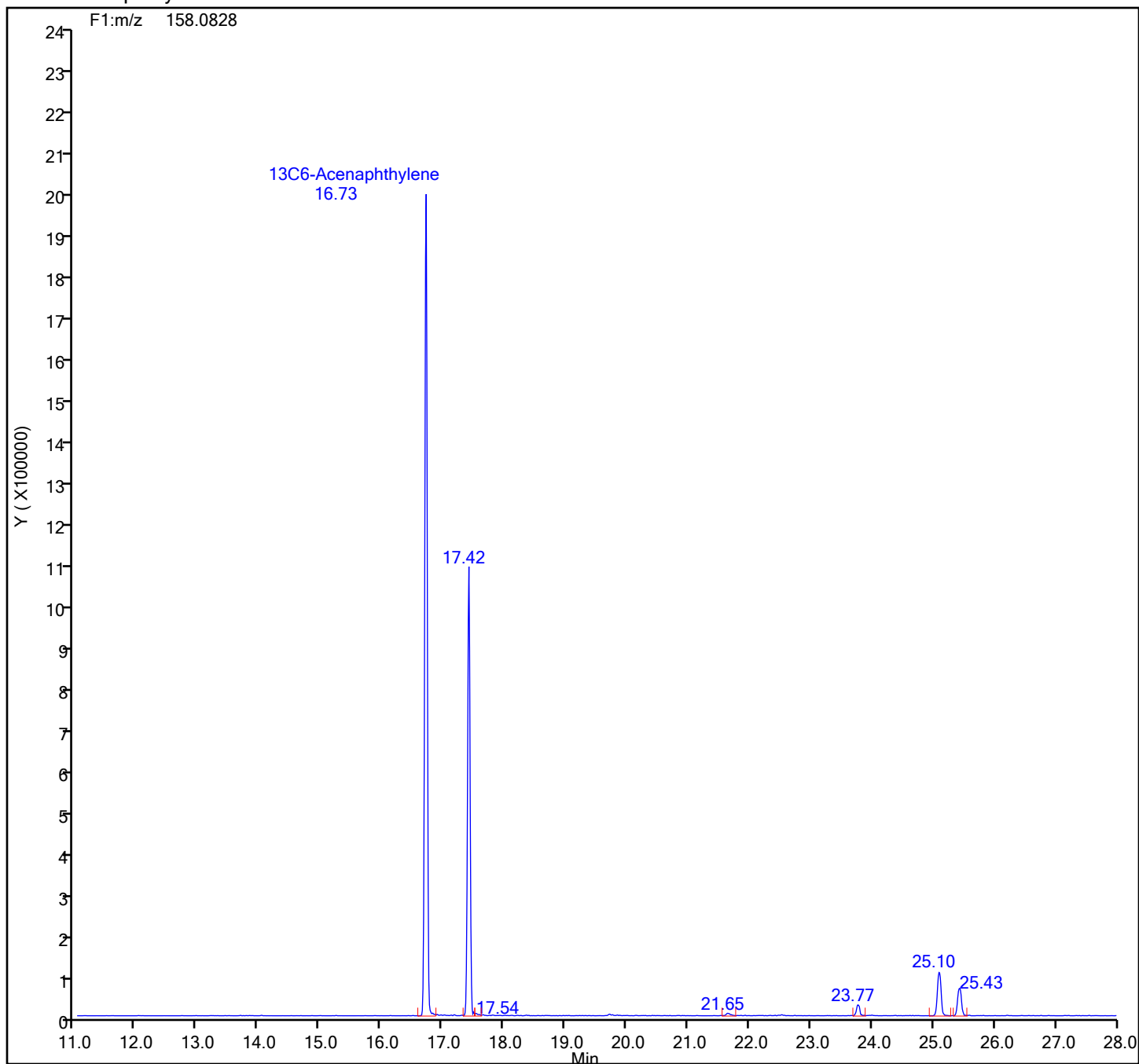
Acenaphthylene Standards



Eurofins Knoxville

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Client ID:
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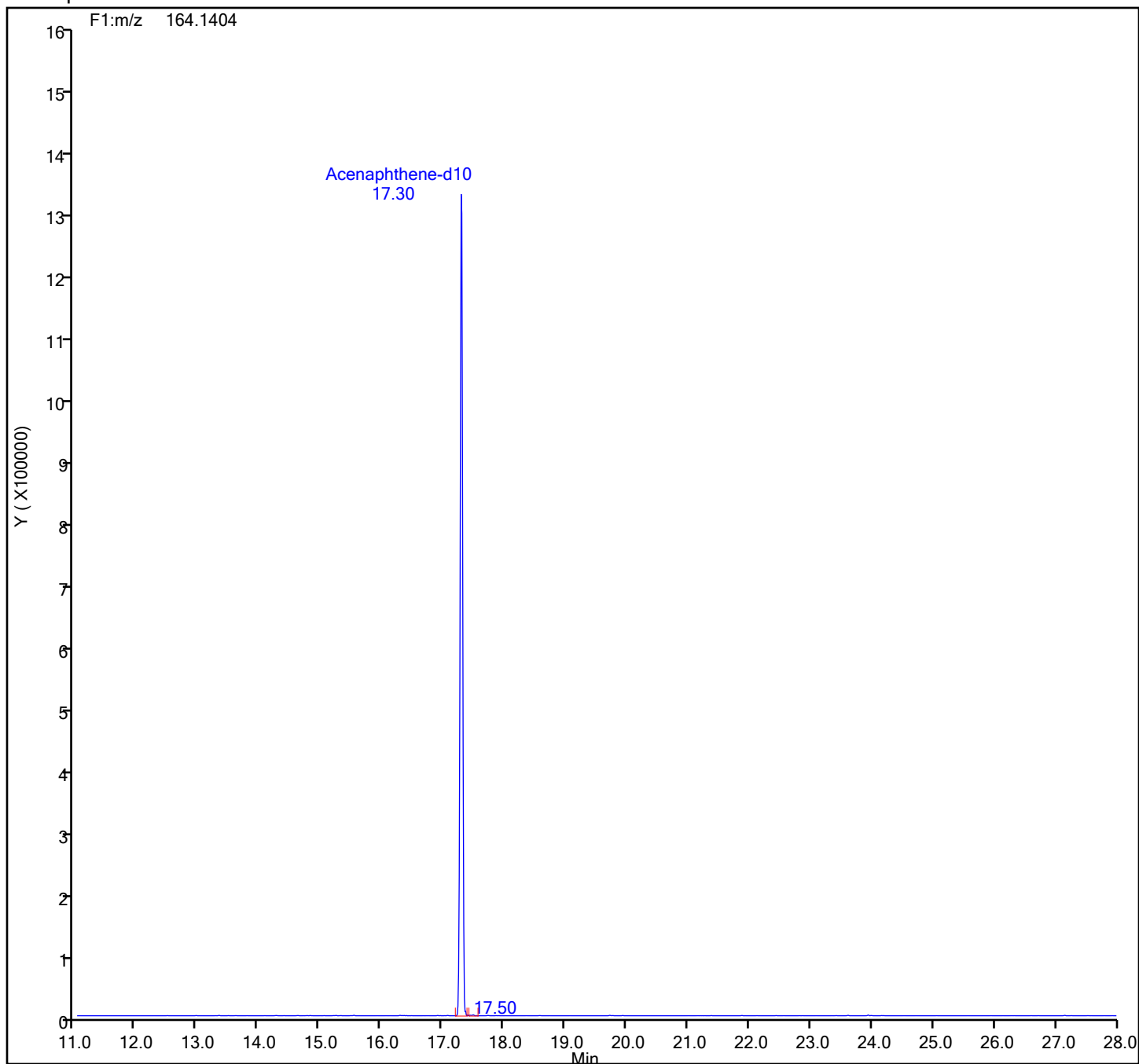
13C6-Acenaphthylene Standards



Eurofins Knoxville

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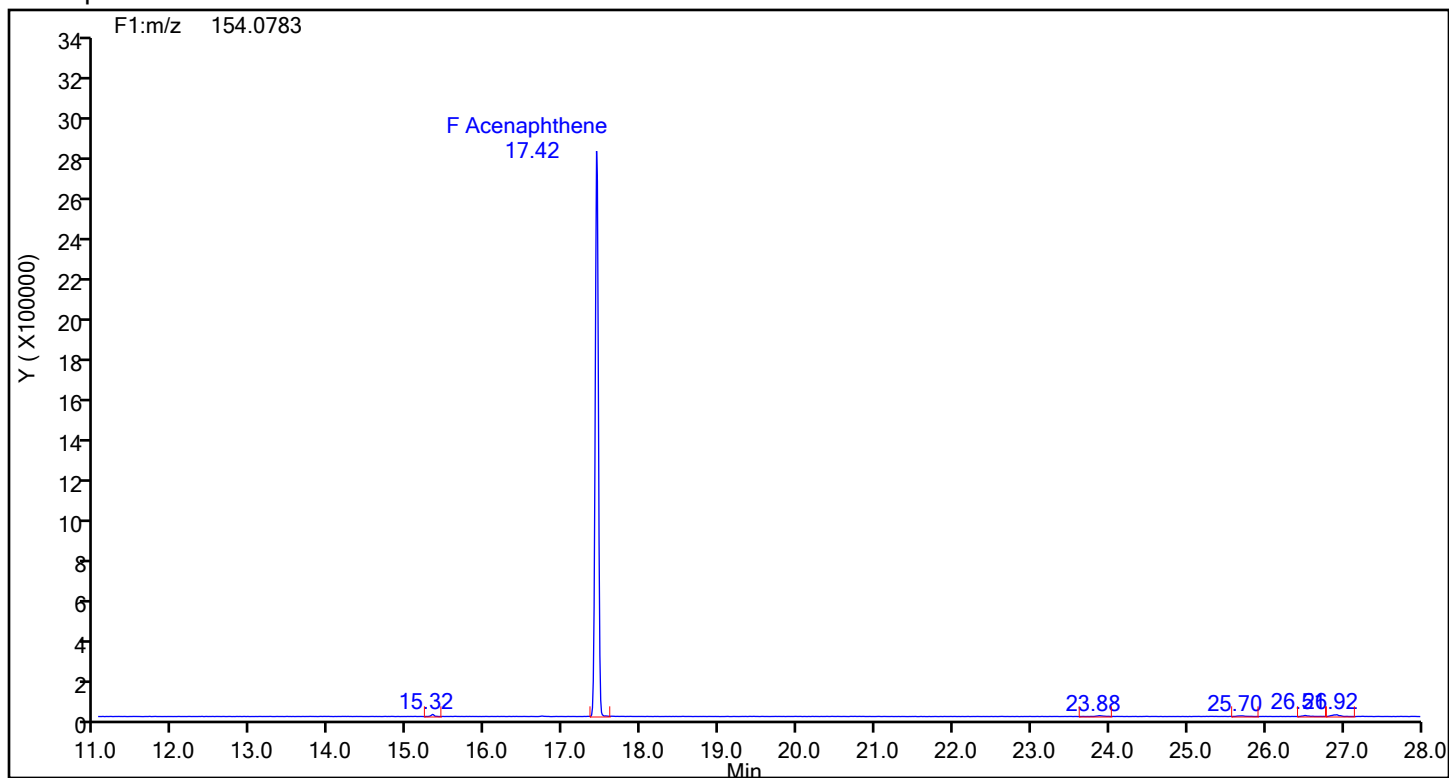
Acenaphthene-d10 Standards



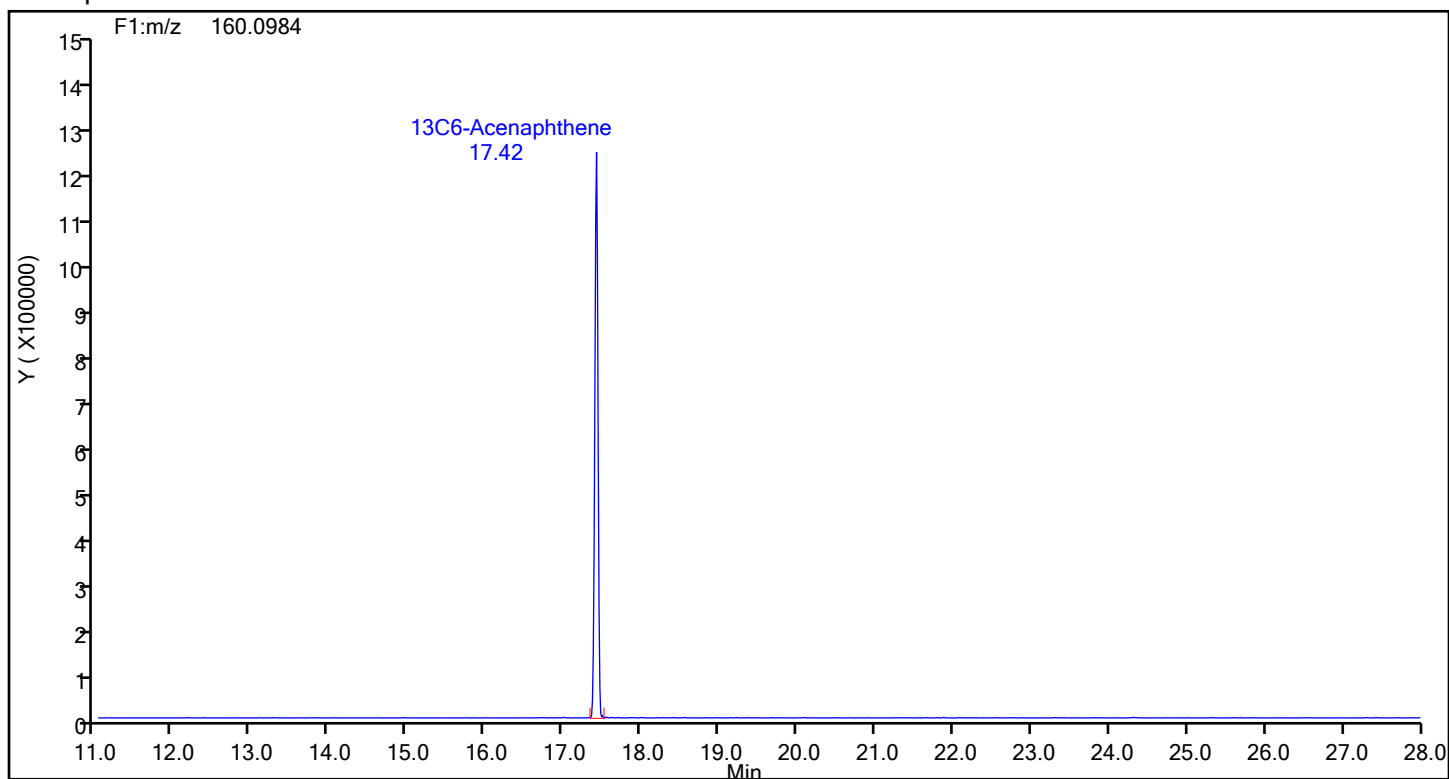
Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



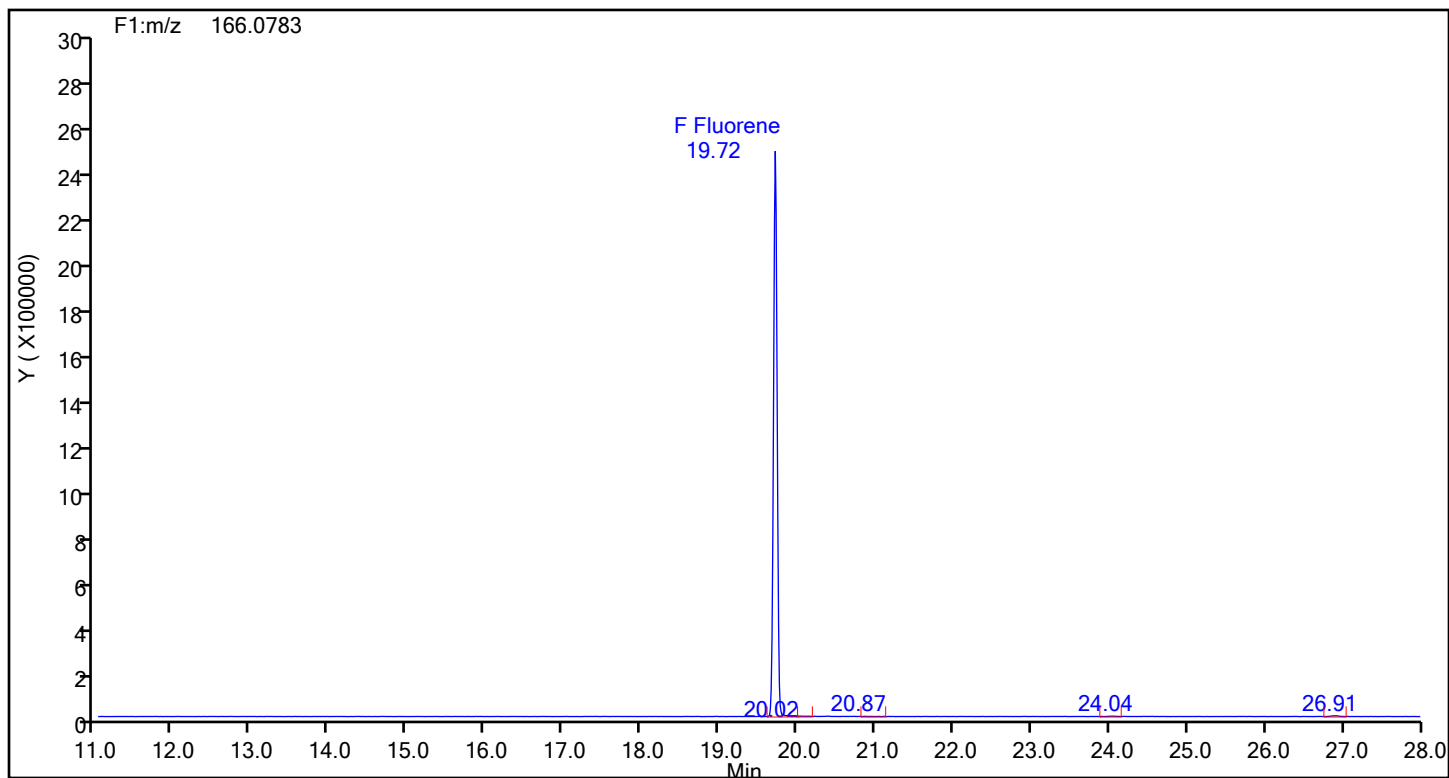
Acenaphthene Standards



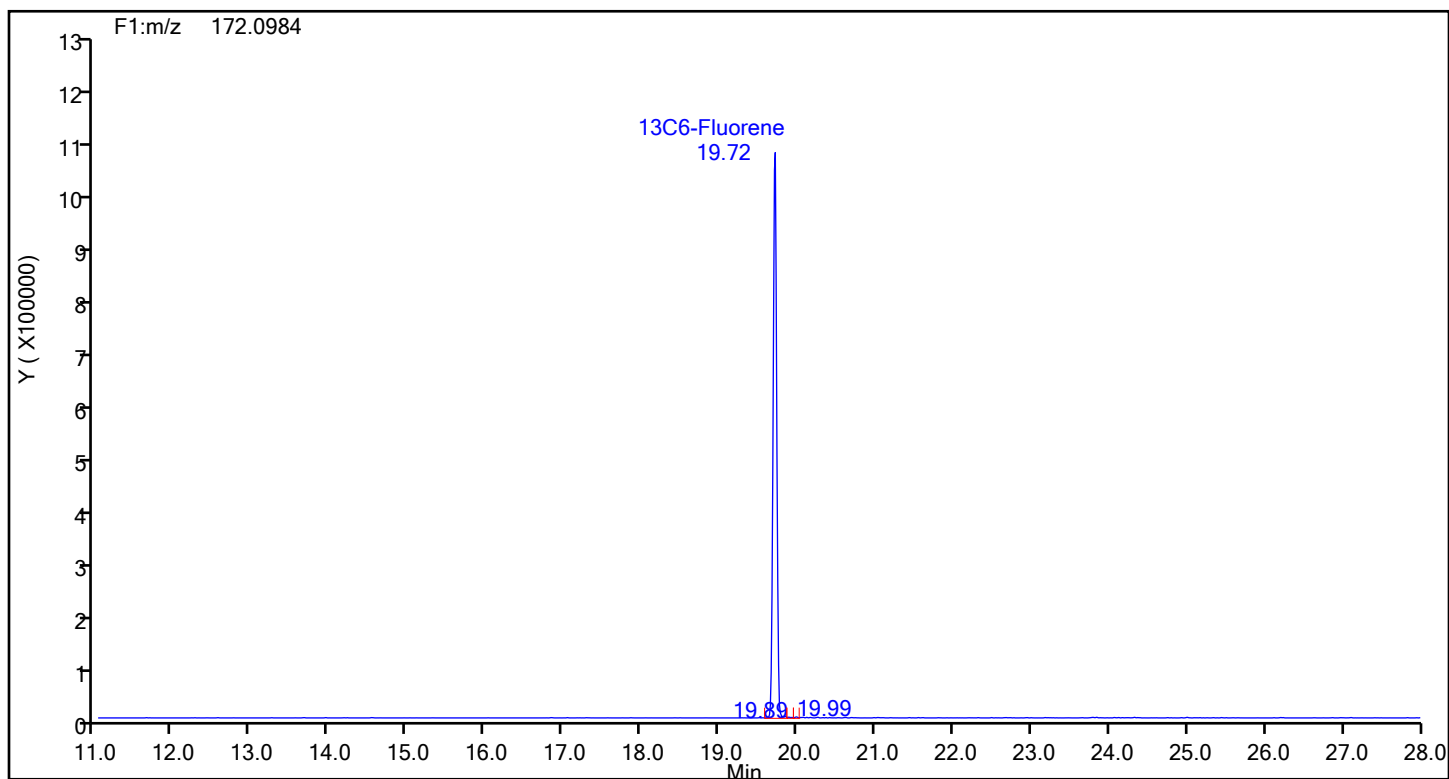
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Fluorene

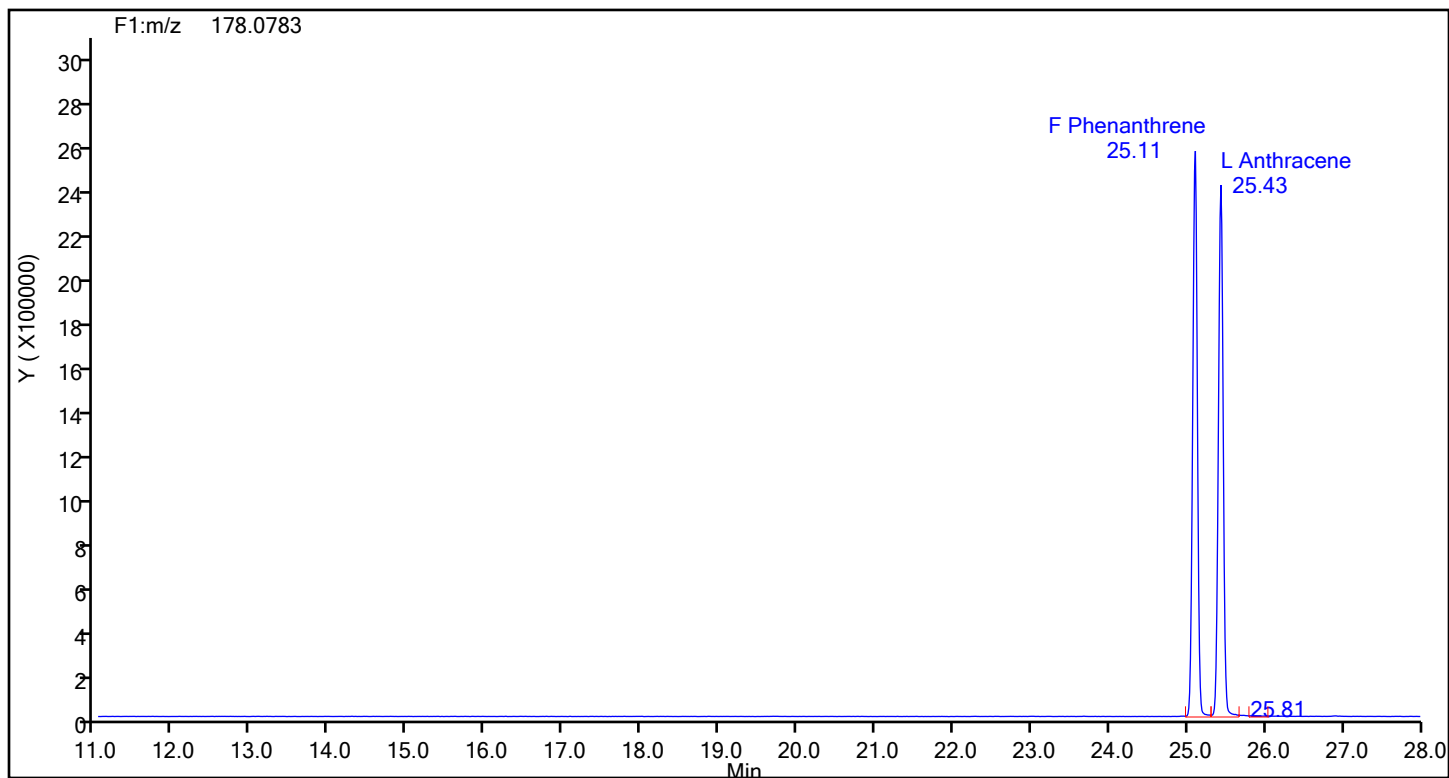


Fluorene Standards

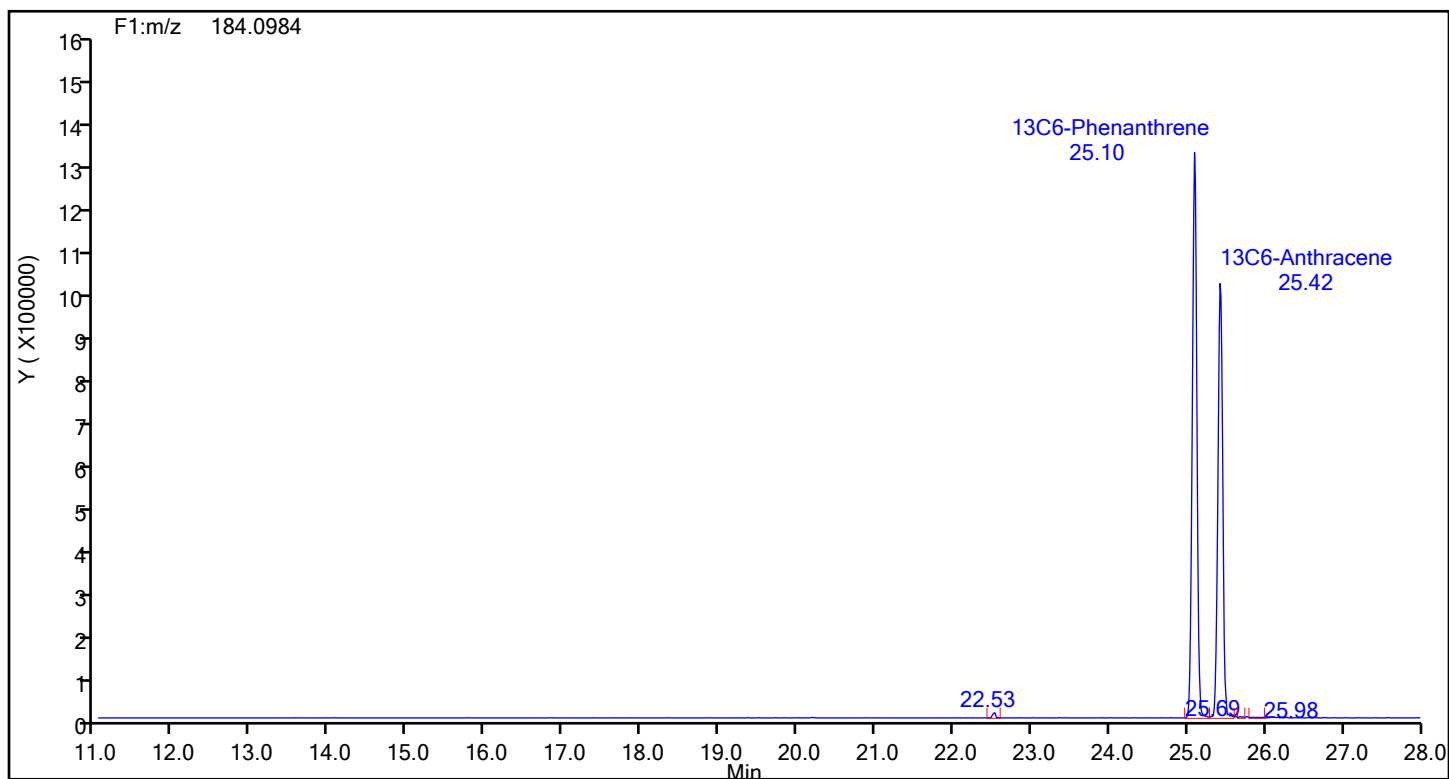


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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Phenanthrene

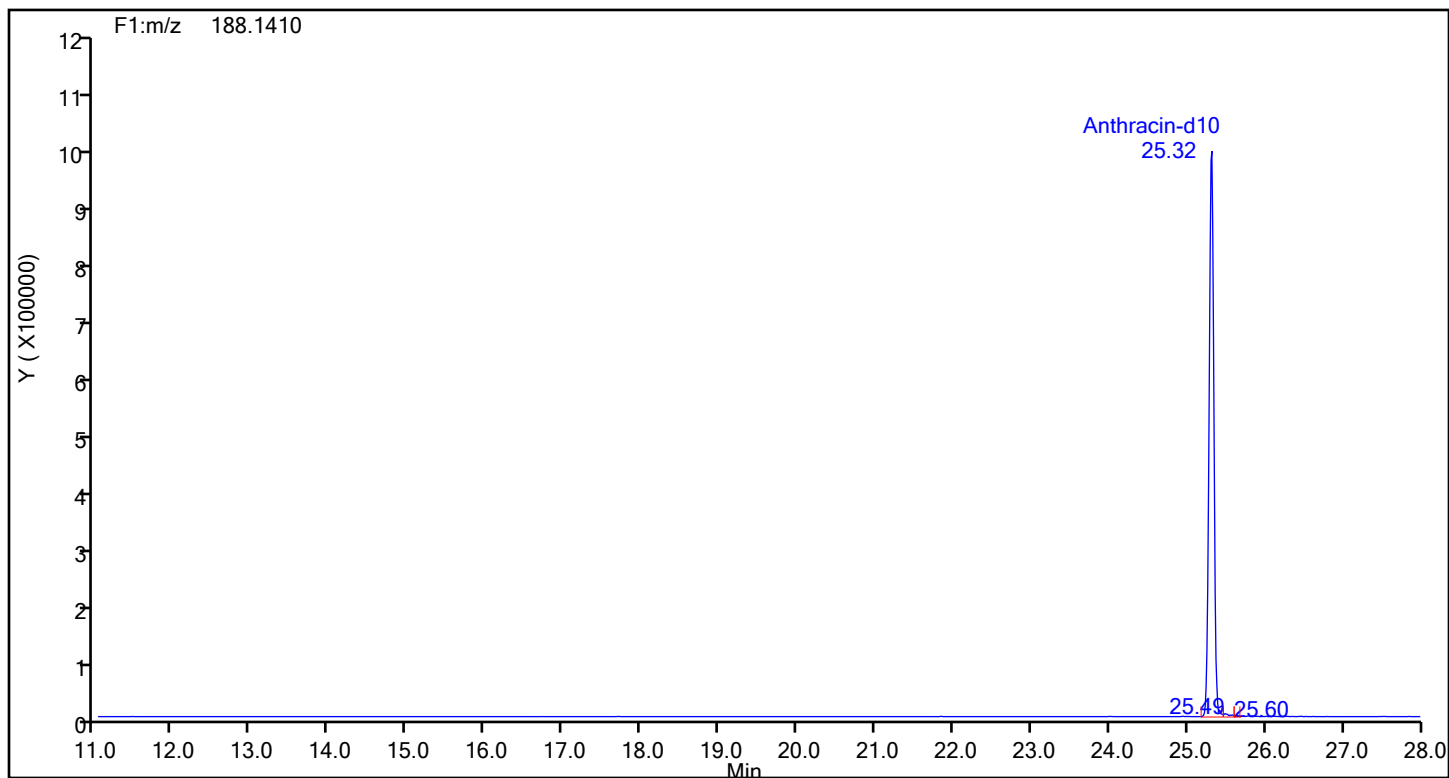


Phenanthrene Standards

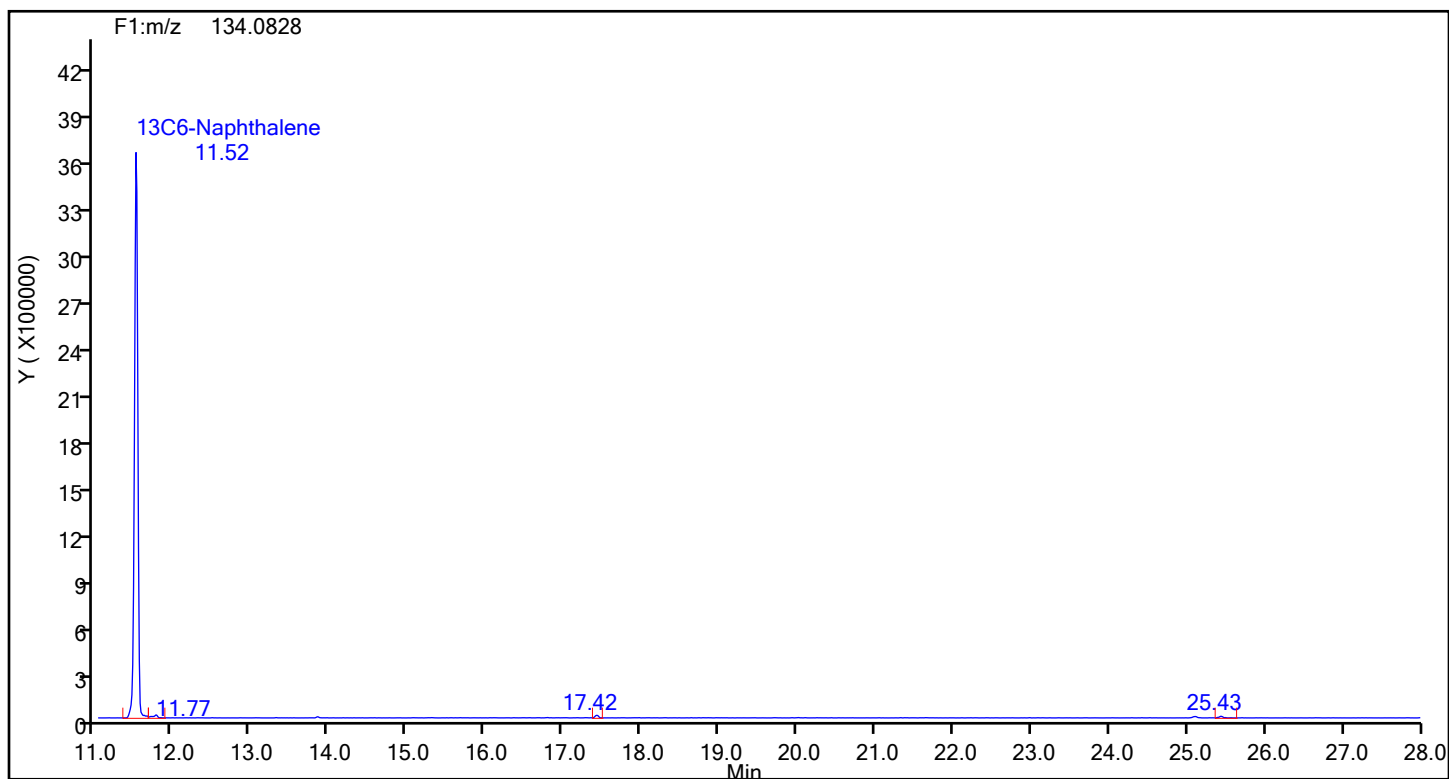


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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88048 Sample Line#: 1
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Anthracin-d10

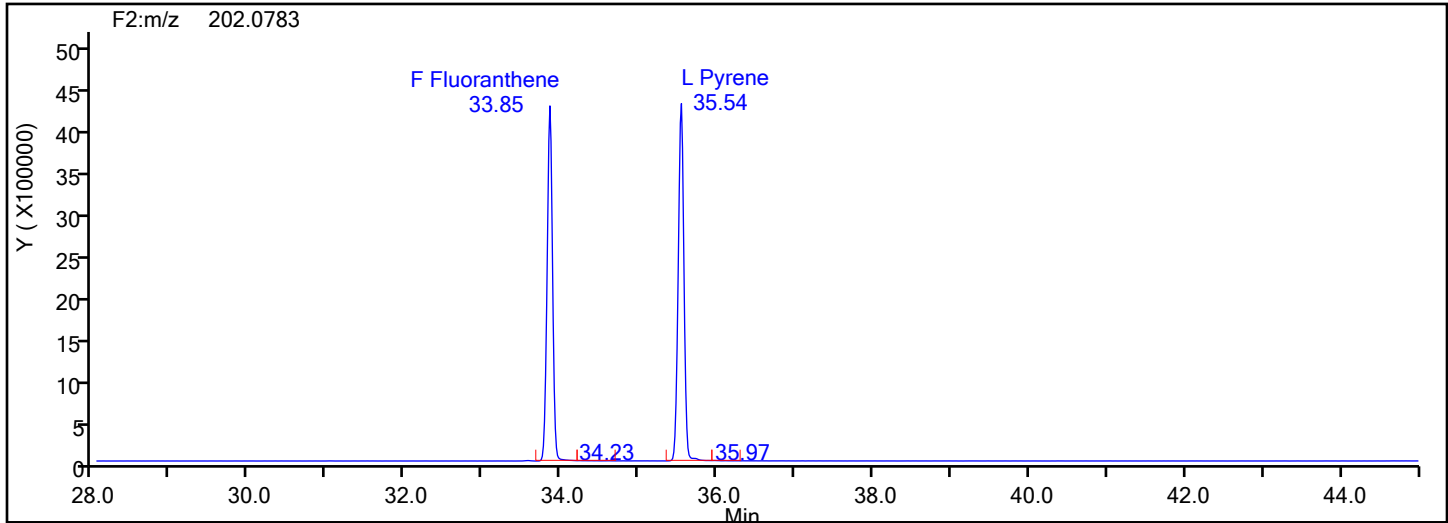


Anthracin-d10 Standards

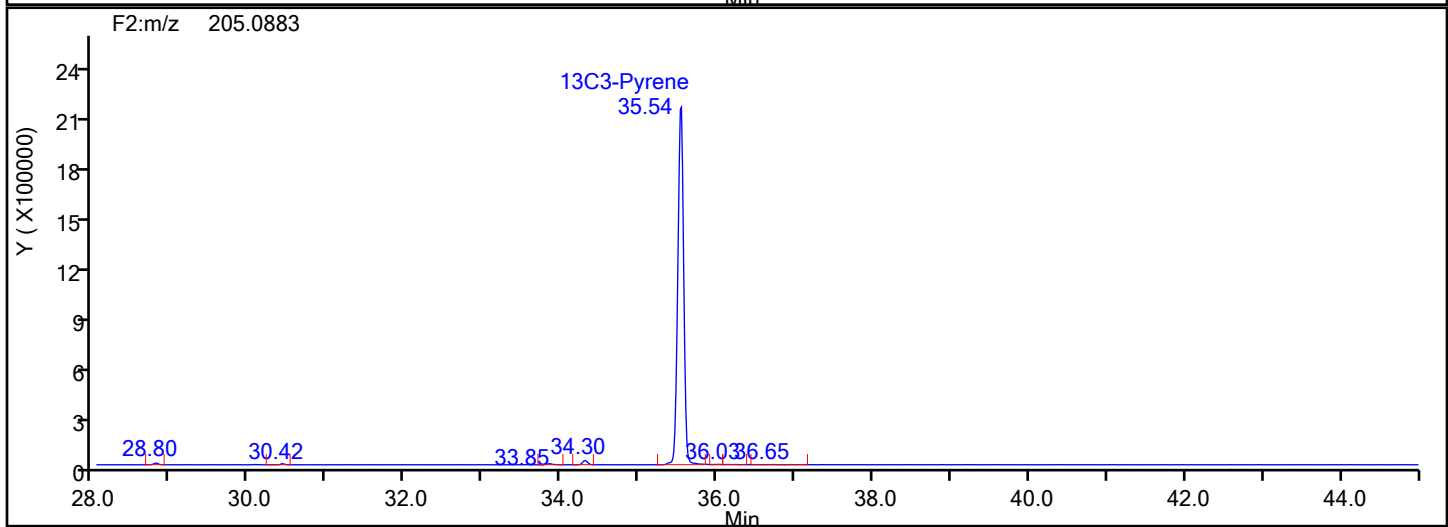
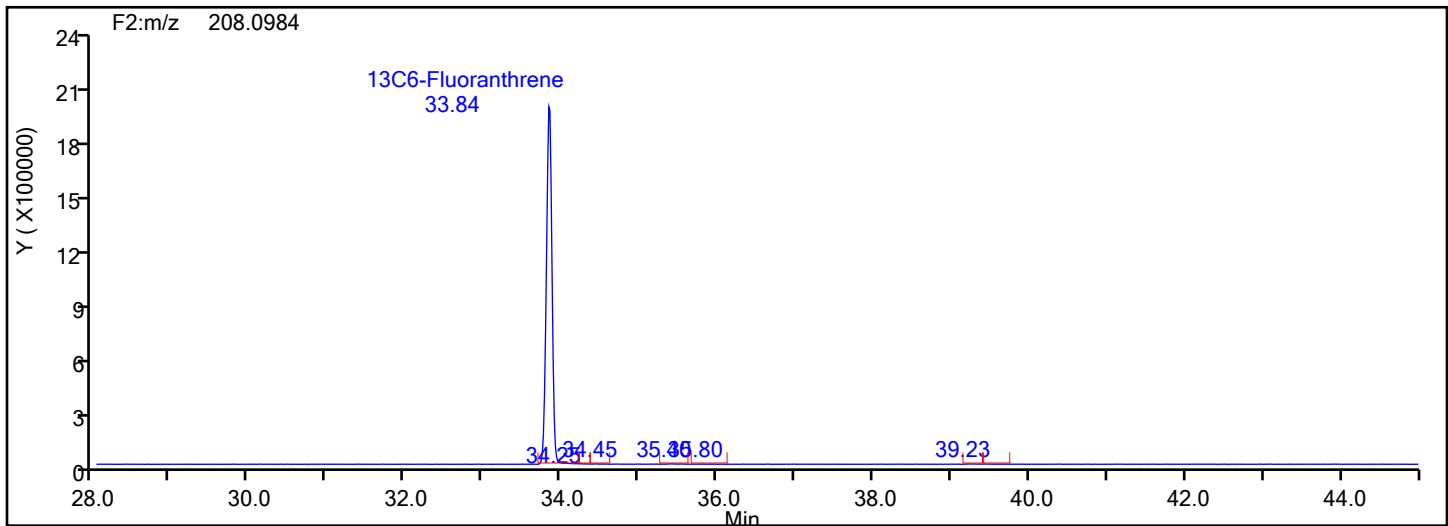


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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



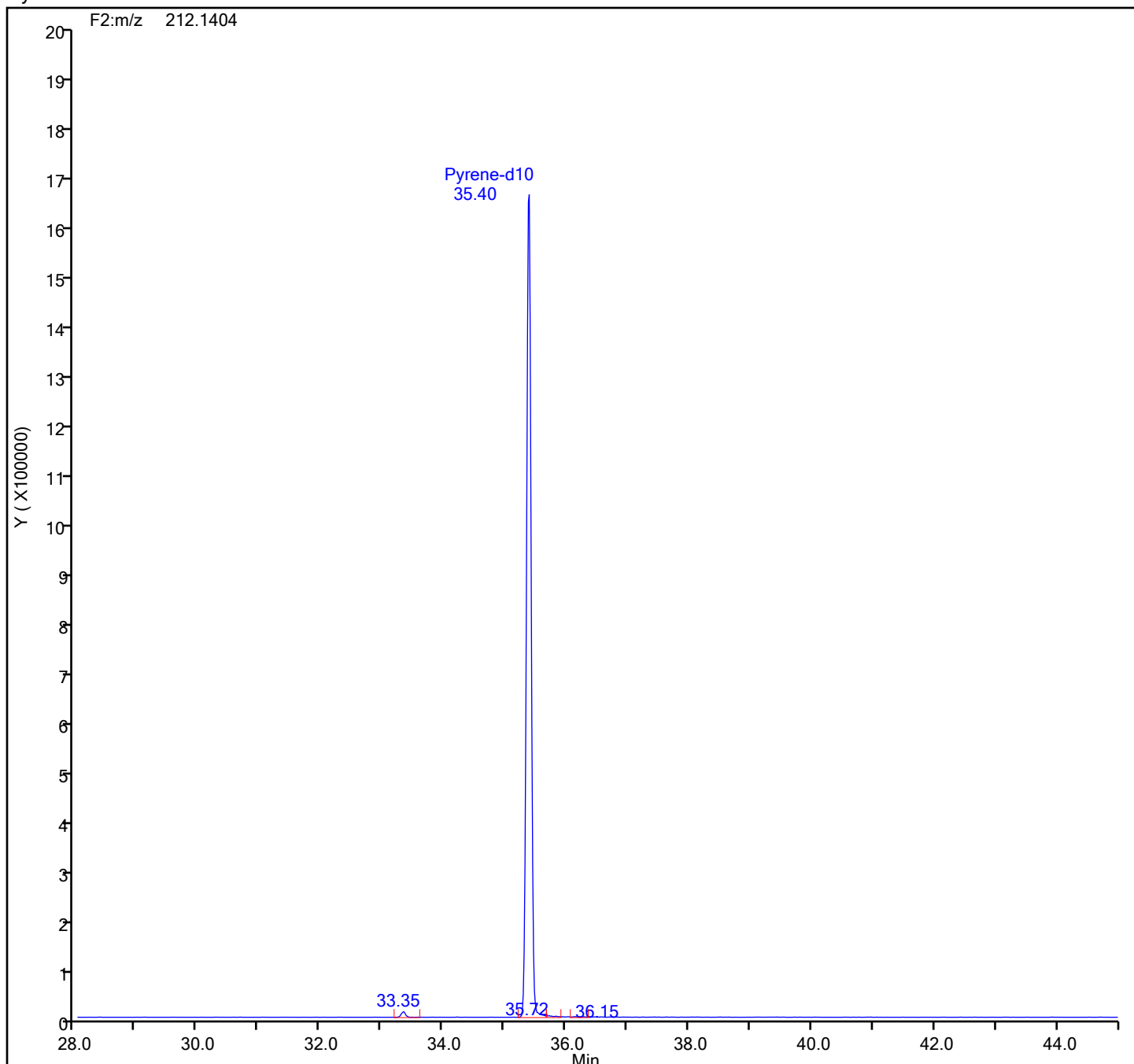
Fluoranthene Standards



Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

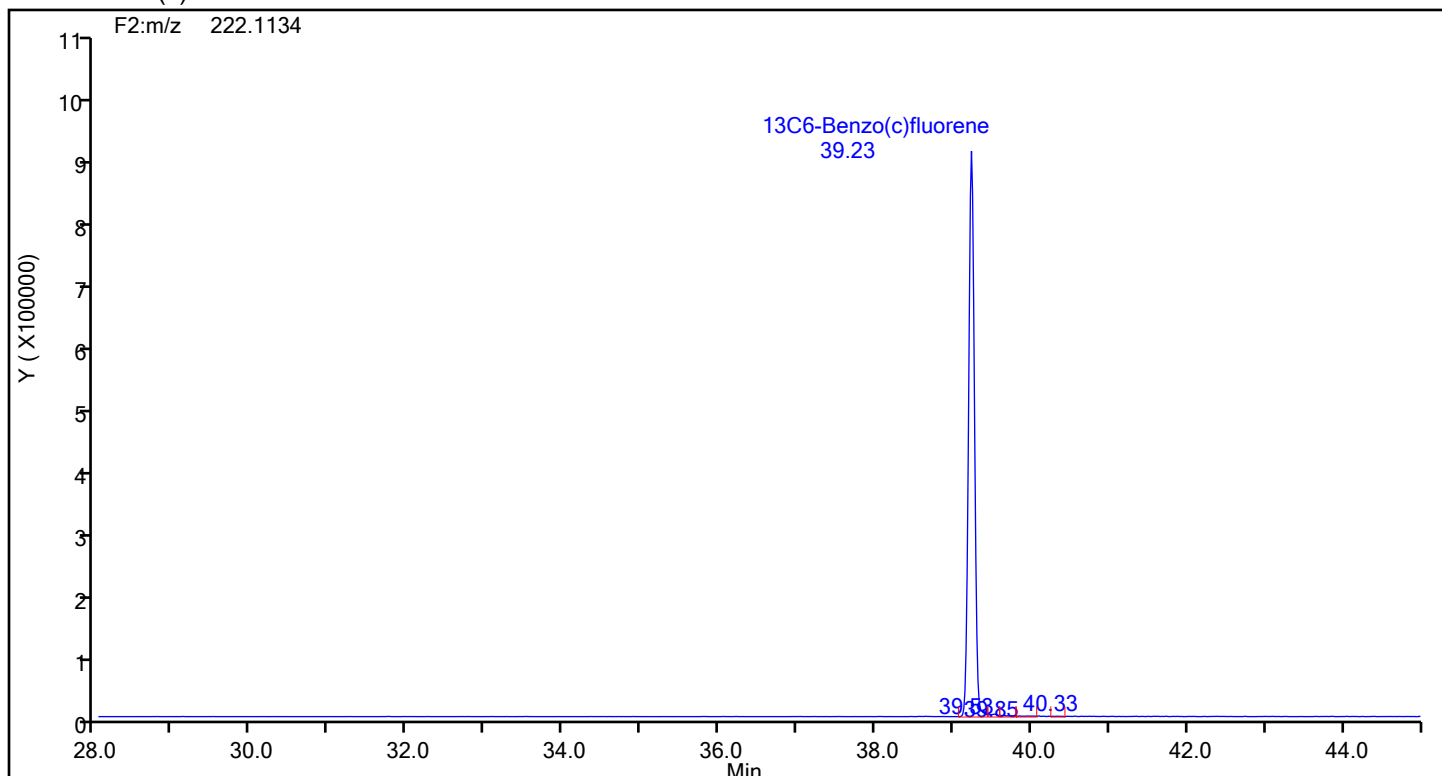
Pyrene-d10 Standards



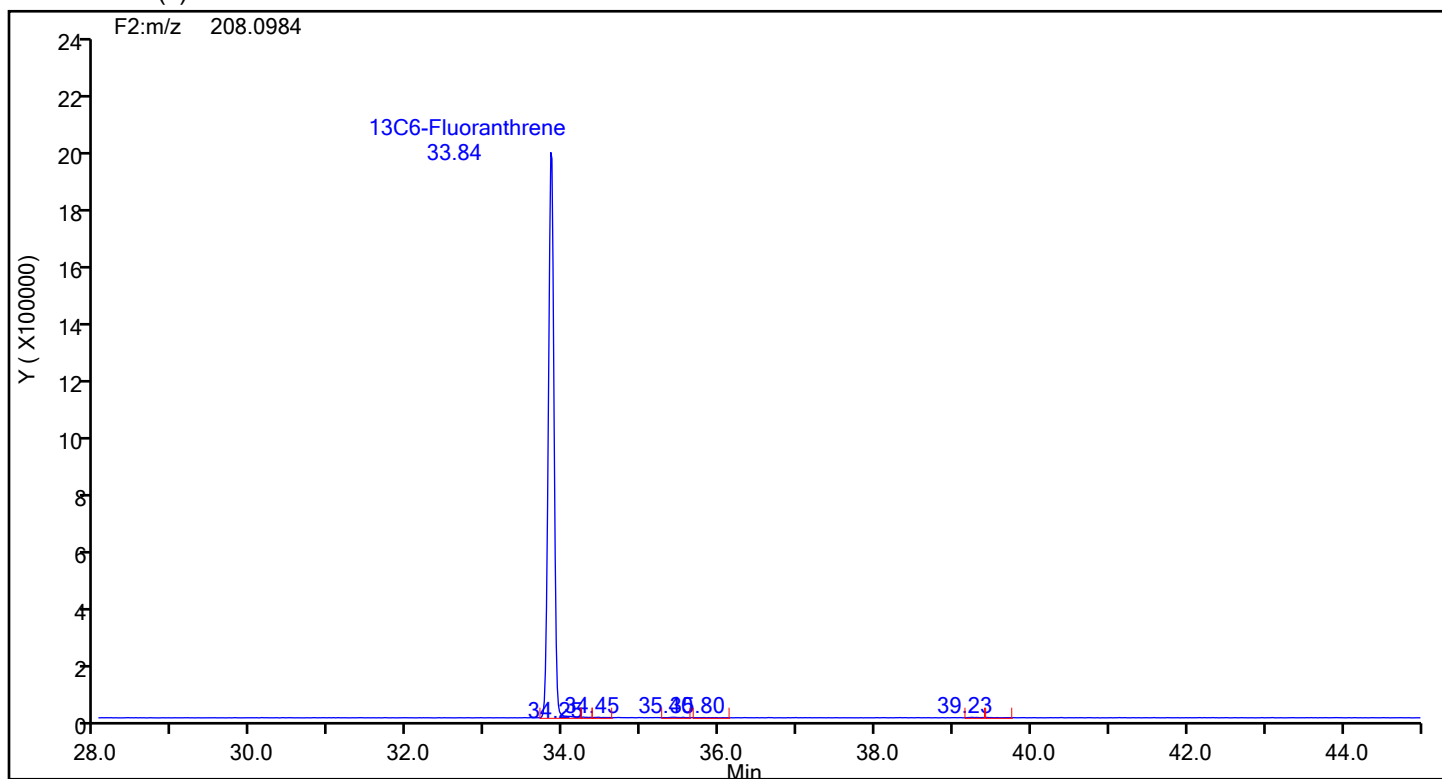
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



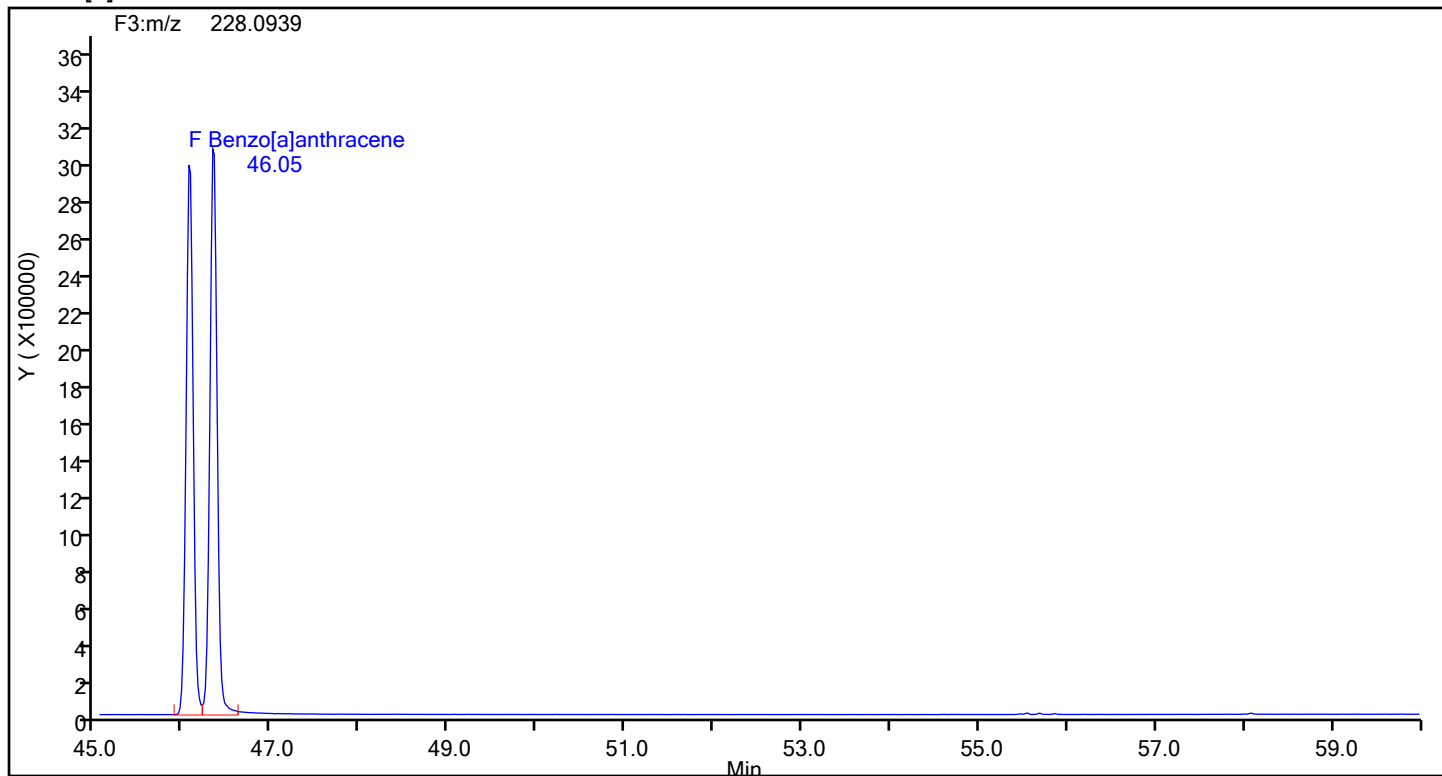
13C6-Benzo(c)fluorene Standards



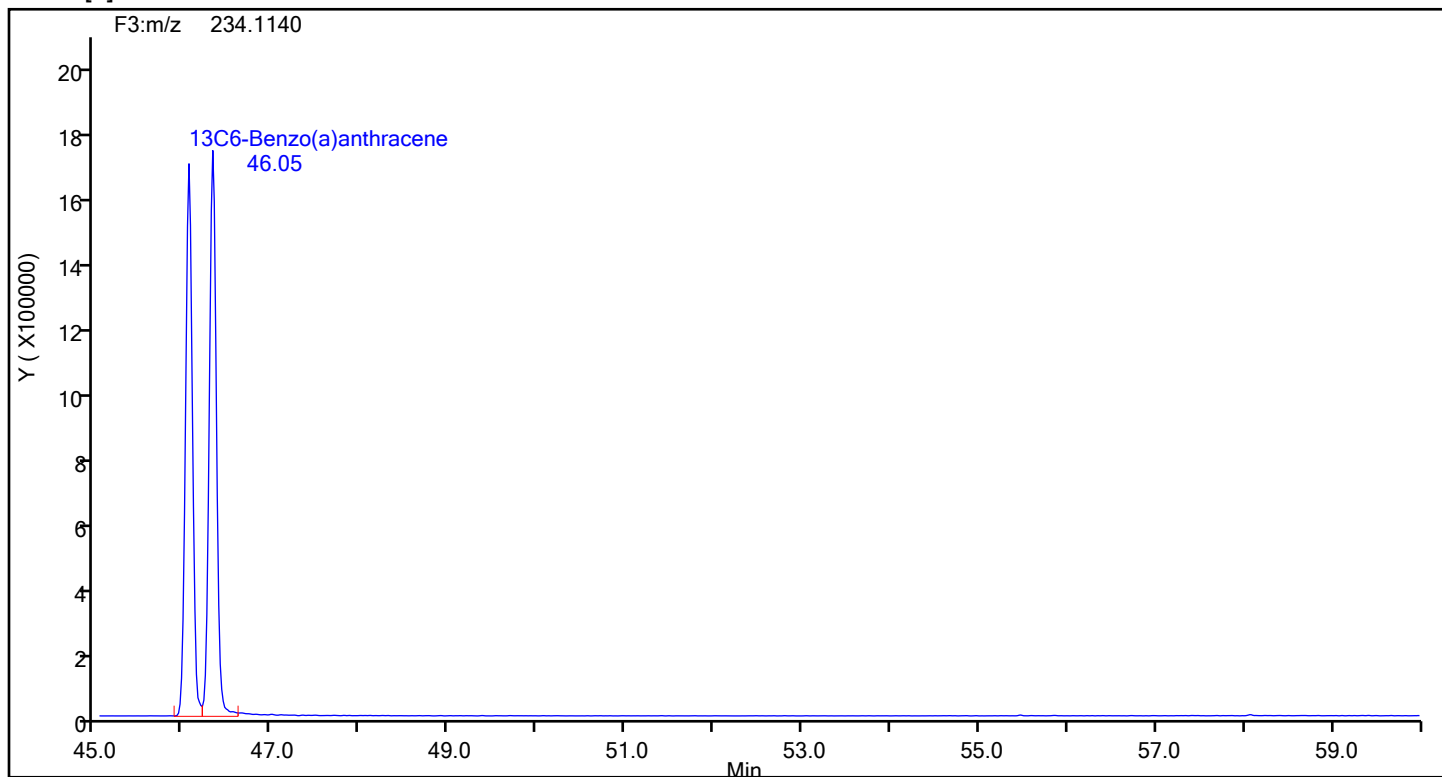
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88048 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



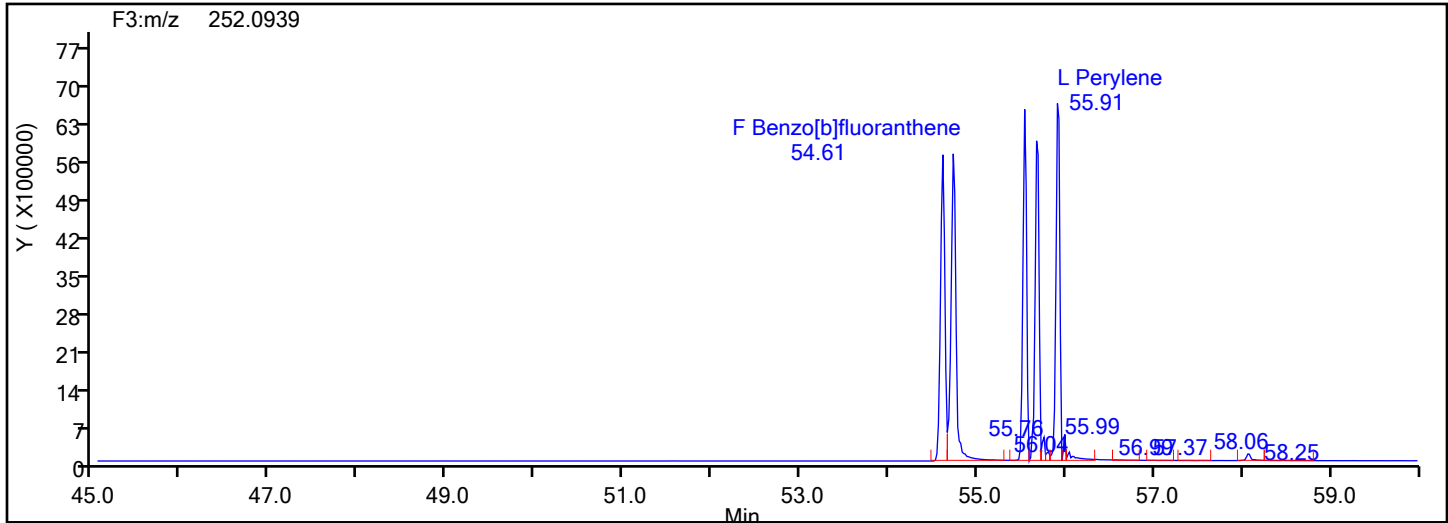
Benzo[a]anthracene Standards



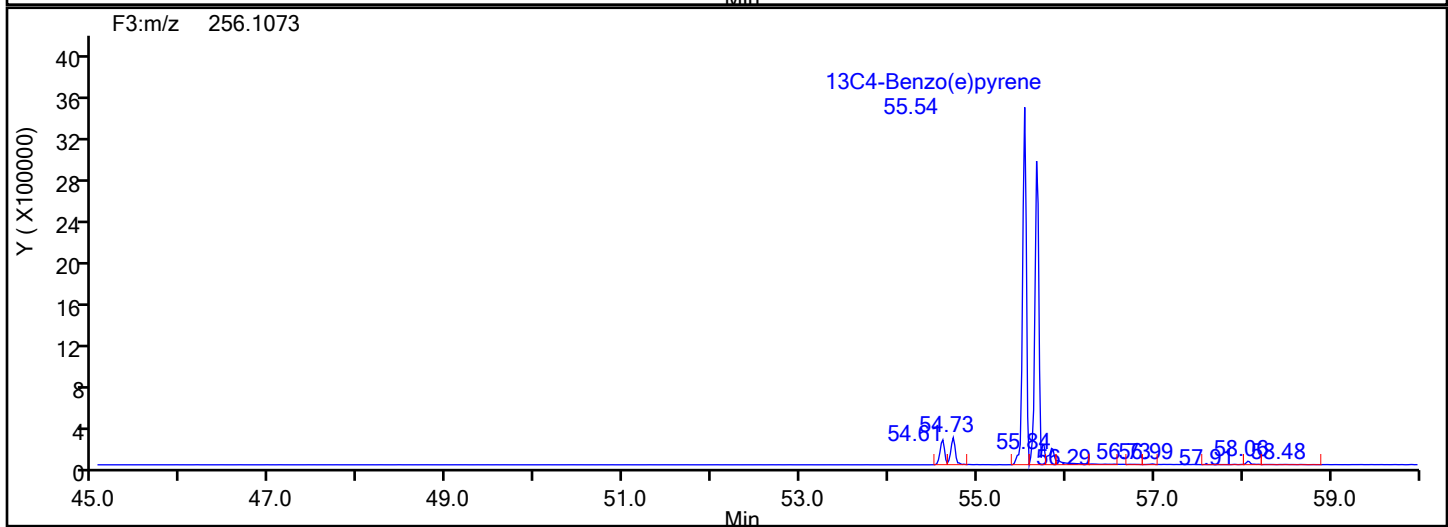
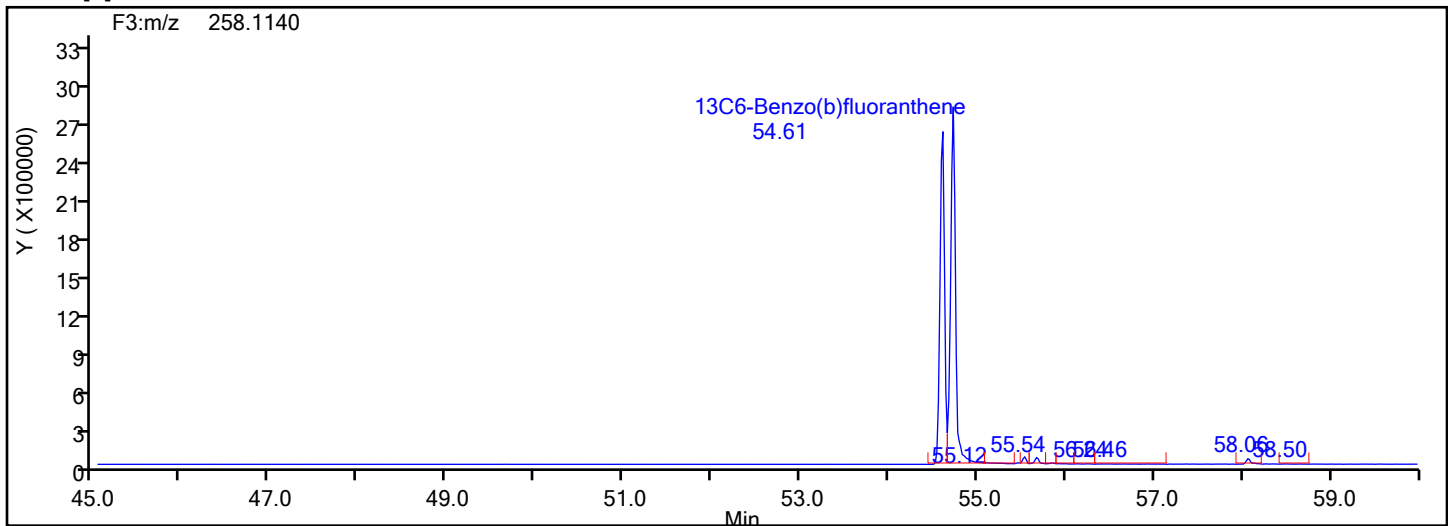
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88048 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

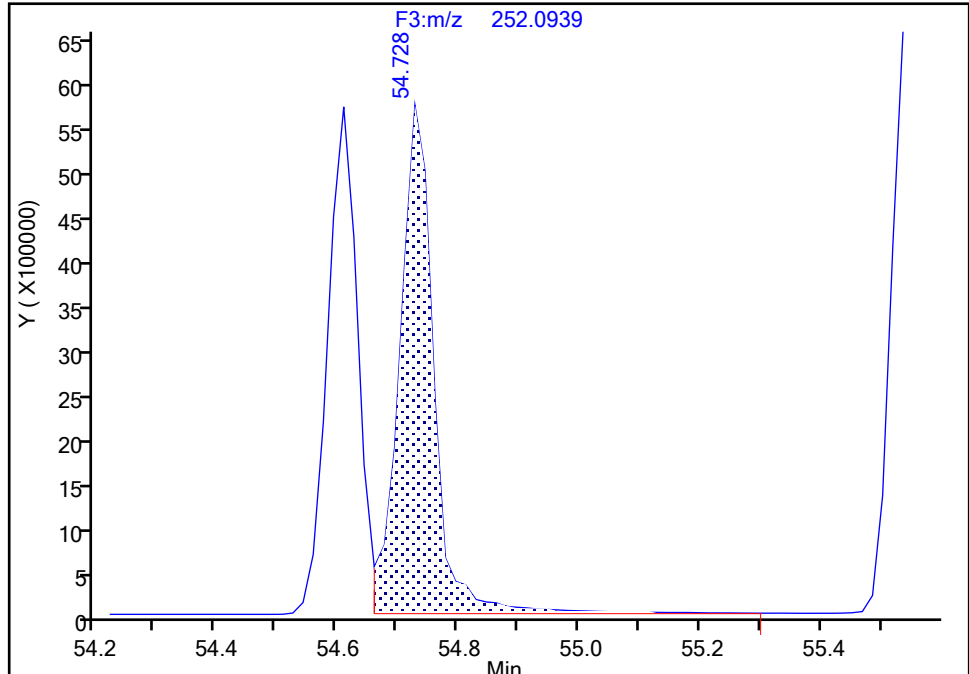
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Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

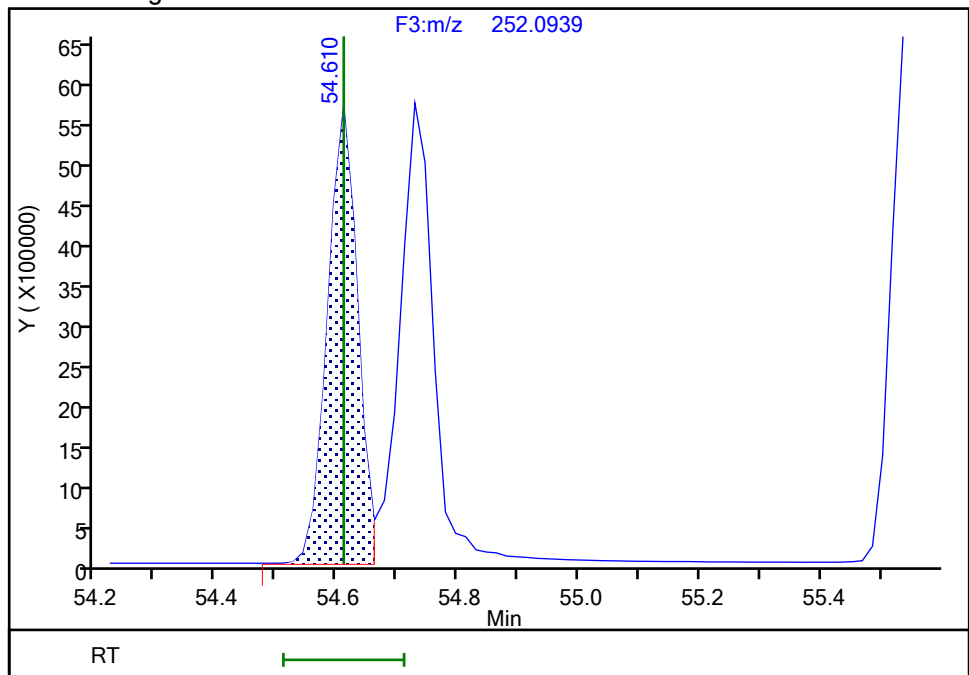
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Area: 22814155
Amount: 218.6246
Amount Units: pg/ul

Processing Integration Results



RT: 54.61
Area: 19506322
Amount: 186.9261
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 24-Jun-2024 23:47:00 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

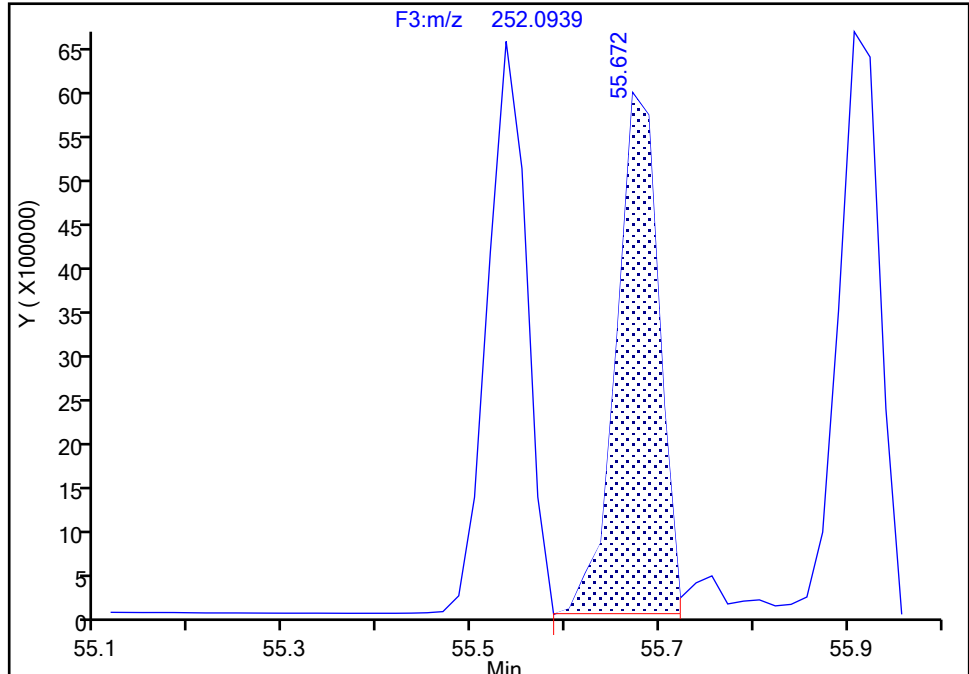
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Injection Date: 24-Jun-2024 22:40:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[e]pyrene, CAS: 192-97-2

Signal: 1

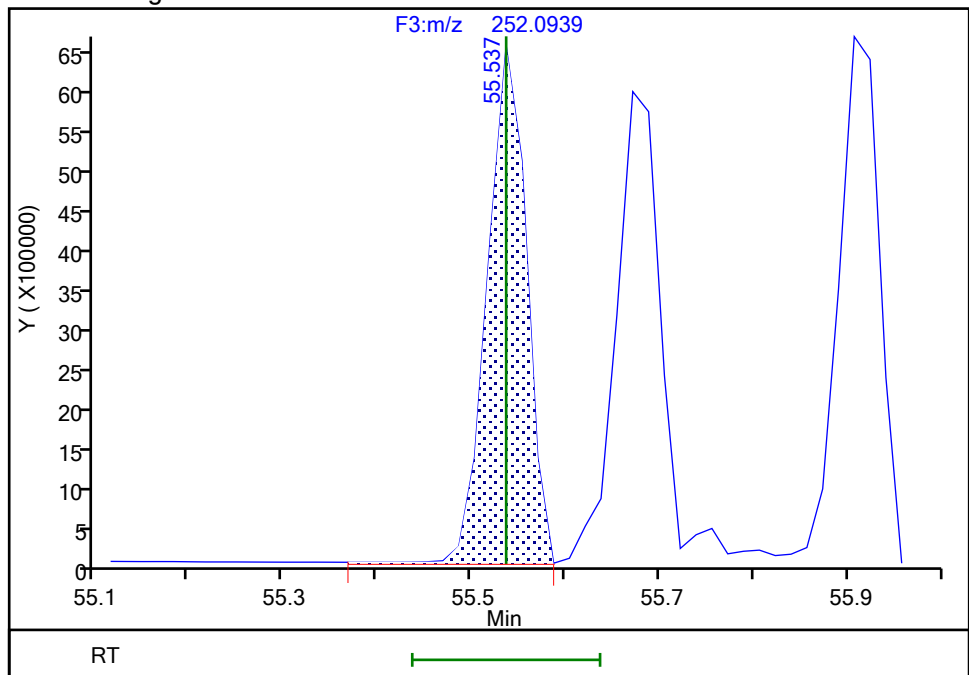
RT: 55.67
Area: 18807499
Amount: 197.0752
Amount Units: pg/ul

Processing Integration Results



RT: 55.54
Area: 18929406
Amount: 185.4473
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 24-Jun-2024 23:50:30 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

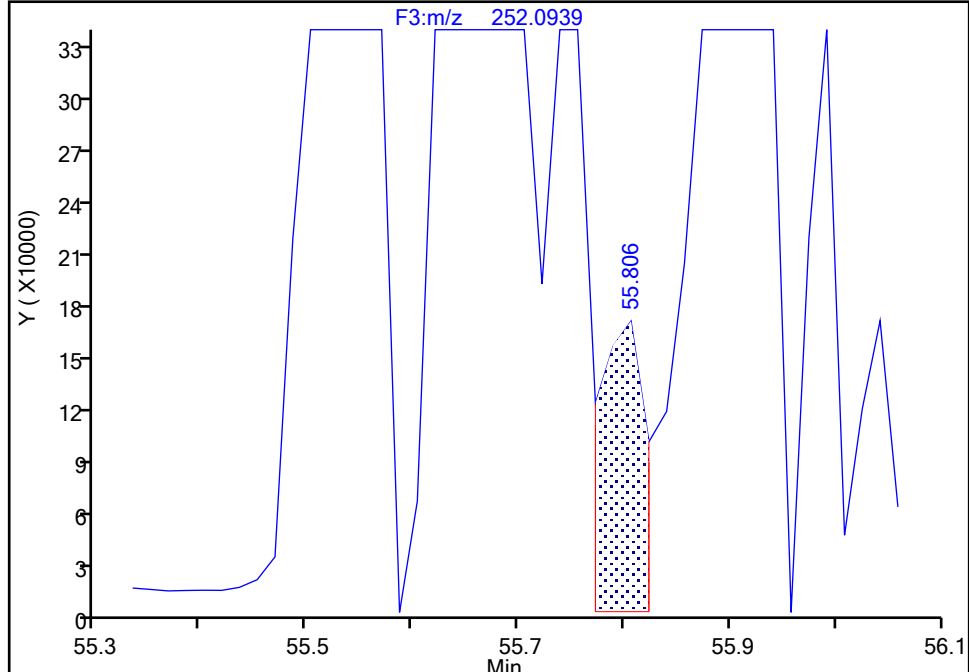
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Injection Date: 24-Jun-2024 22:40:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

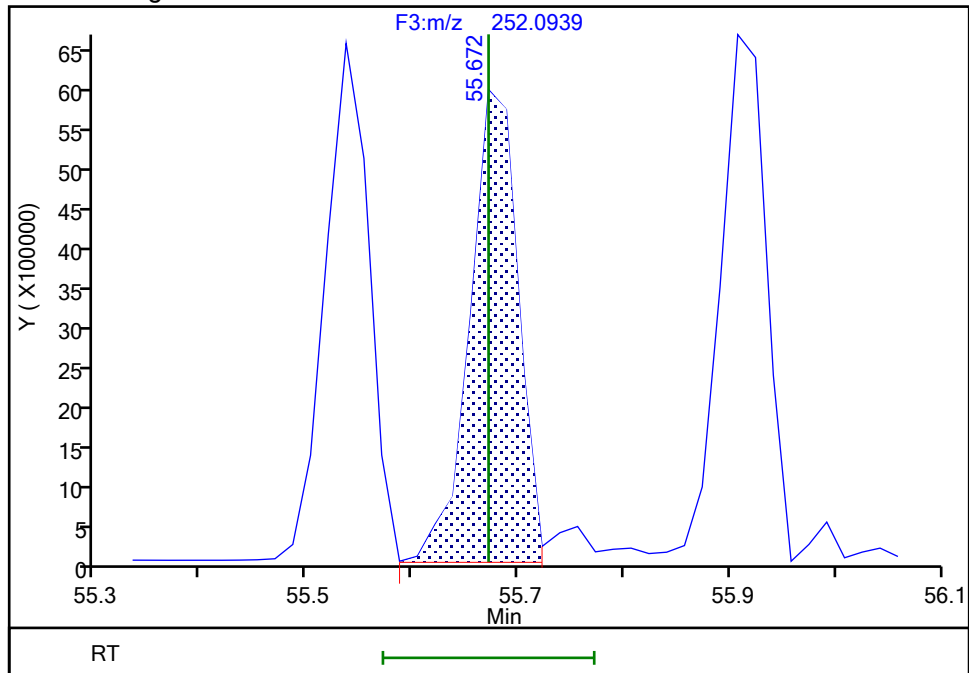
RT: 55.81
Area: 428953
Amount: 54.015737
Amount Units: pg/ul

Processing Integration Results



RT: 55.67
Area: 18807499
Amount: 177.2864
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 24-Jun-2024 23:50:11 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

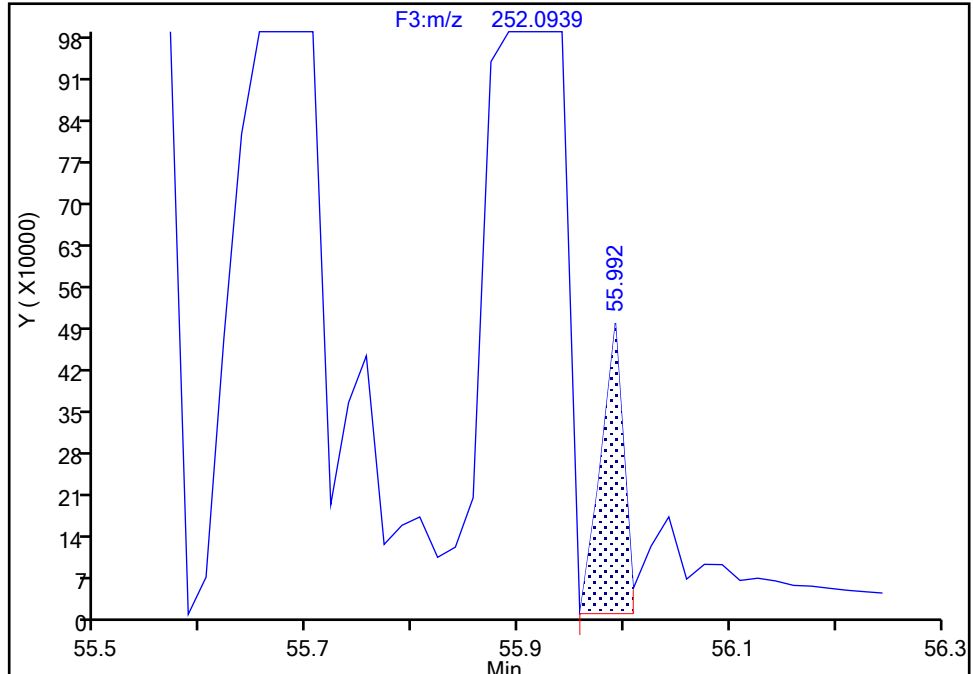
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Injection Date: 24-Jun-2024 22:40:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

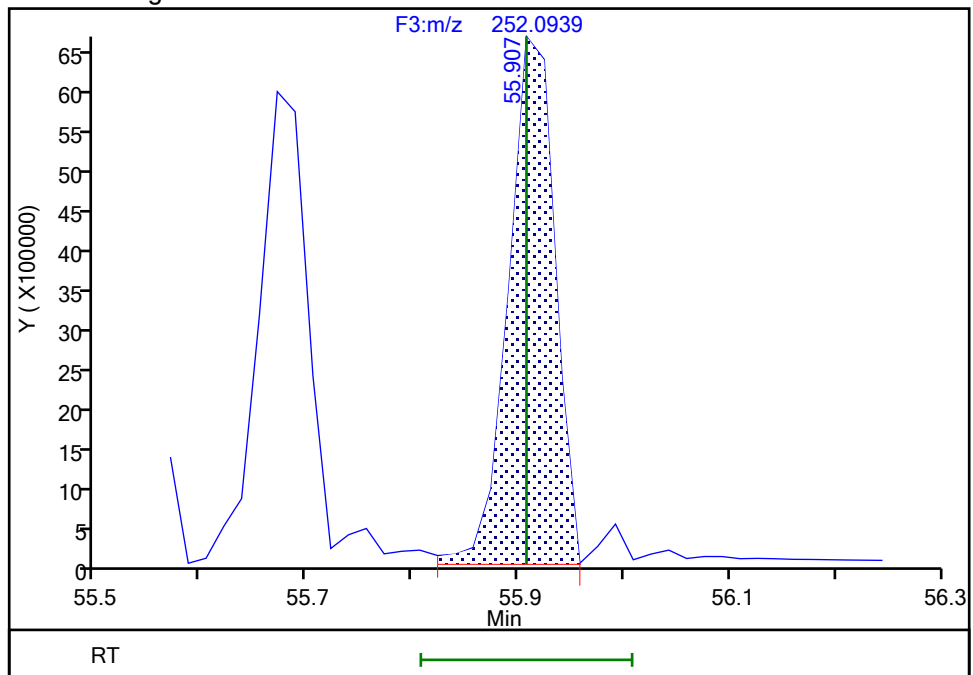
RT: 55.99
Area: 736614
Amount: 76.064528
Amount Units: pg/ul

Processing Integration Results



RT: 55.91
Area: 20282878
Amount: 199.2720
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 24-Jun-2024 23:50:59 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

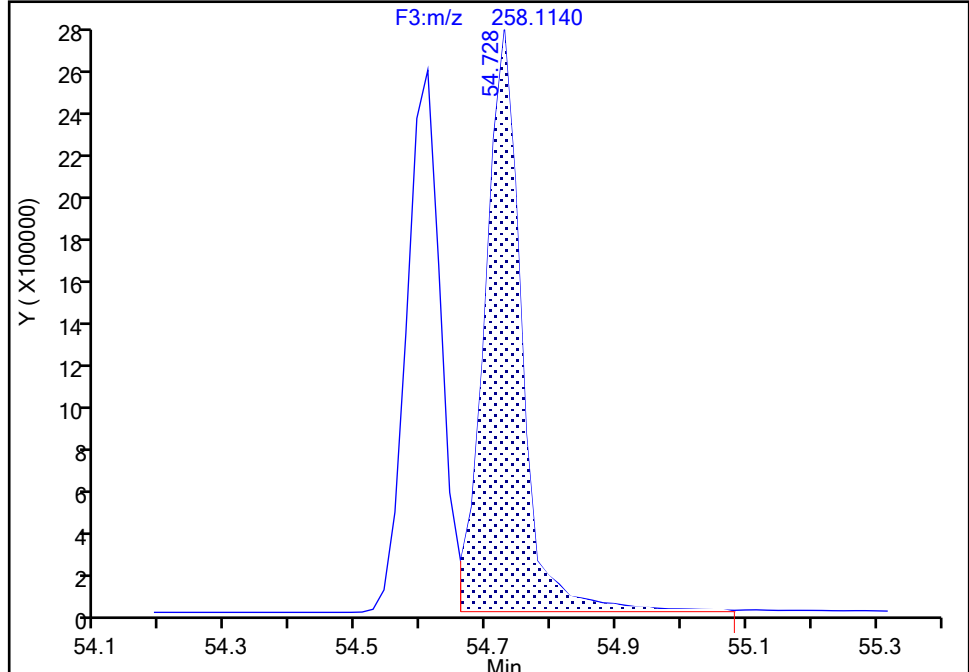
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Injection Date: 24-Jun-2024 22:40:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Benzo(b)fluoranthene, CAS: STL03358

Signal: 1

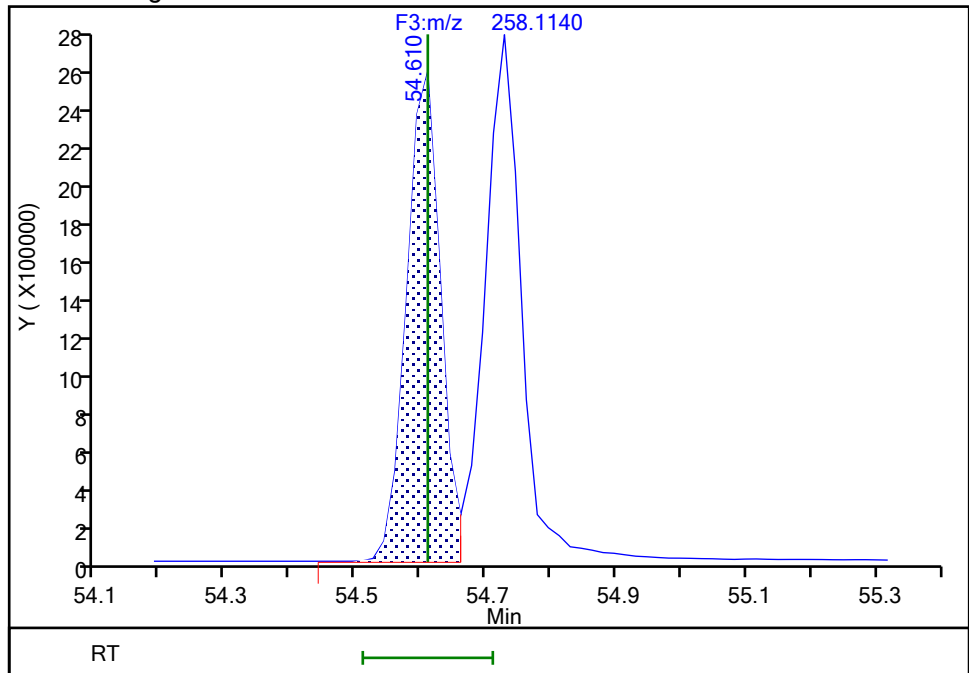
RT: 54.73
Area: 10885101
Amount: 1941.9694
Amount Units: pg/ul

Processing Integration Results



RT: 54.61
Area: 9276564
Amount: 105.4717
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 24-Jun-2024 23:46:53 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

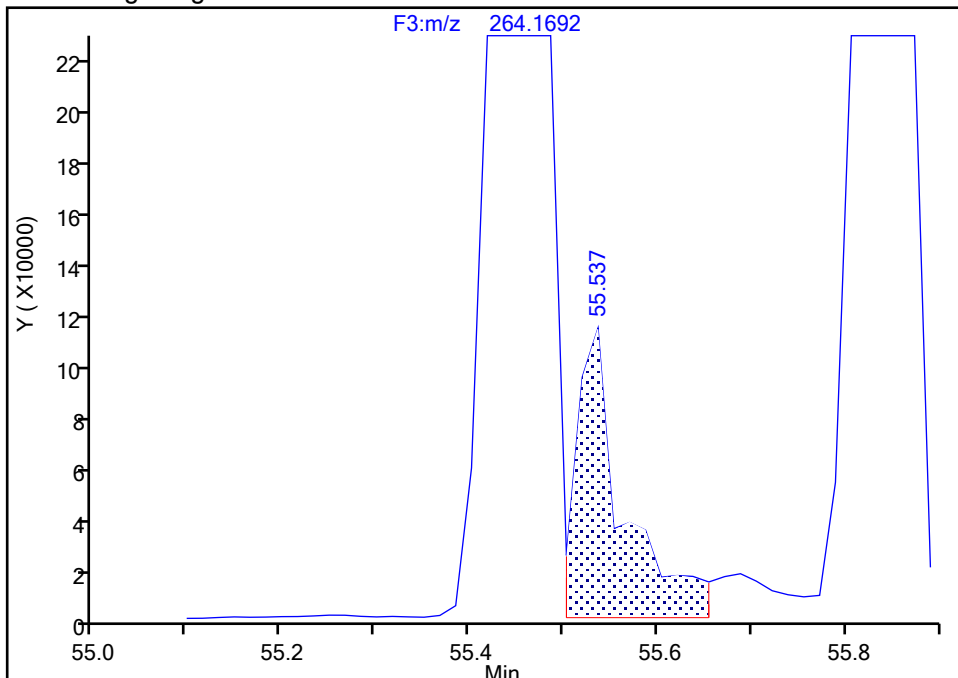
Audit Reason: Split Peak

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d		
Injection Date:	24-Jun-2024 22:40:00	Instrument ID:	D3PAH
Lims ID:	CCV		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0 Work
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICA
Column:	Restek-5Sil MS 25um (0.25 mm)	Detector	F3(44.04 :59.98)

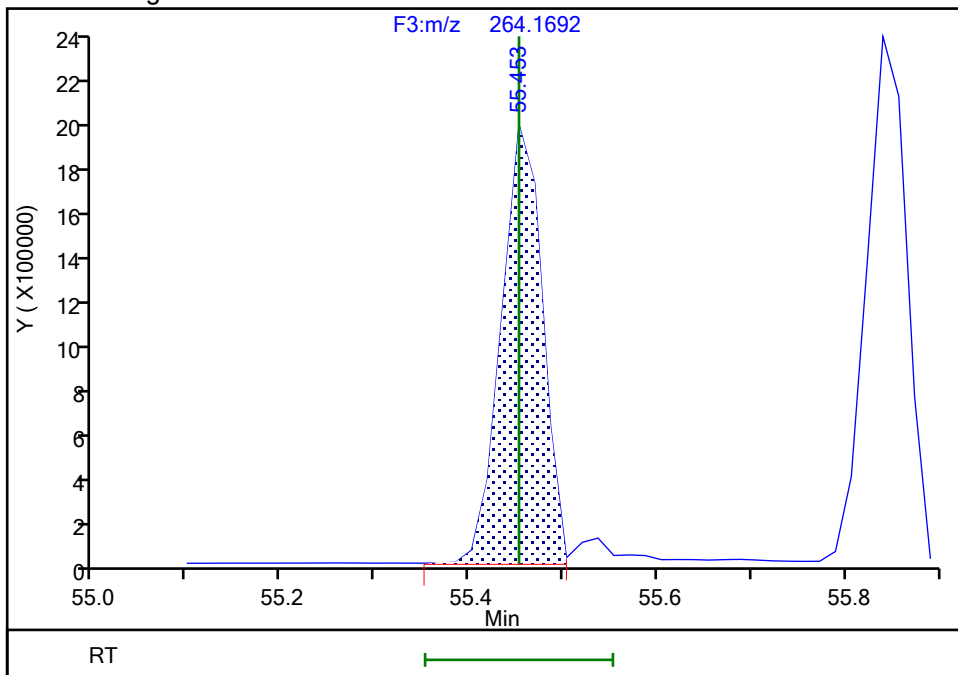
ALS Bottle#:	0	Worklist Smp#:	1
Dil. Factor:	1.0000		
Limit Group:	HR - HRPAAH ICAL		
Detector	F3(44.04 :59.98)		

Signal: 1

Processing Integration Results



Manual Integration Results



Audit Reason: Split Peak

Eurofins Knoxville

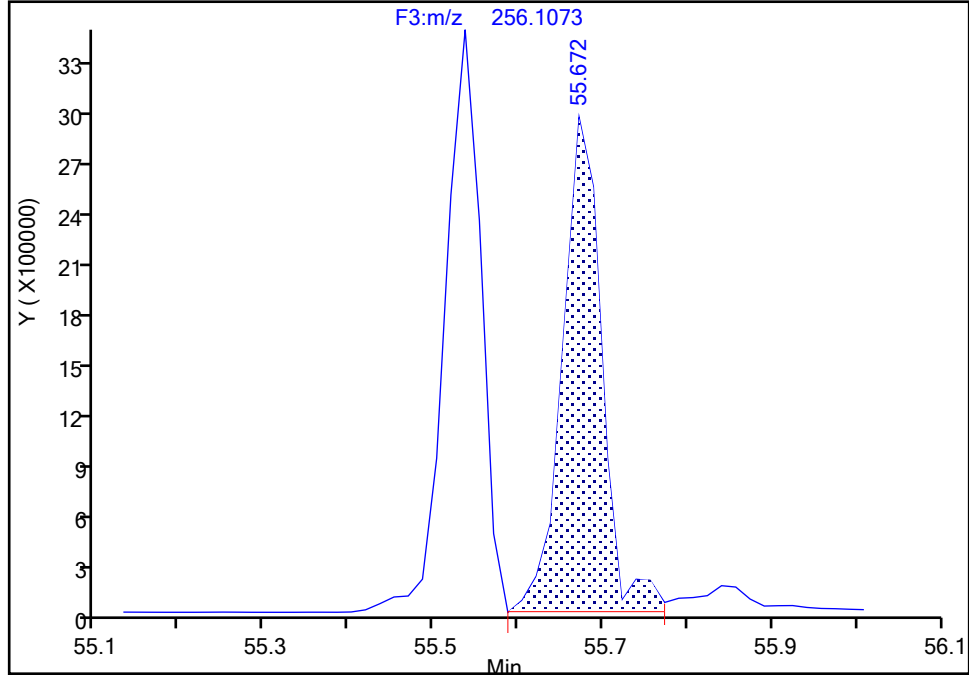
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Injection Date: 24-Jun-2024 22:40:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C4-Benzo(e)pyrene, CAS: STL03382

Signal: 1

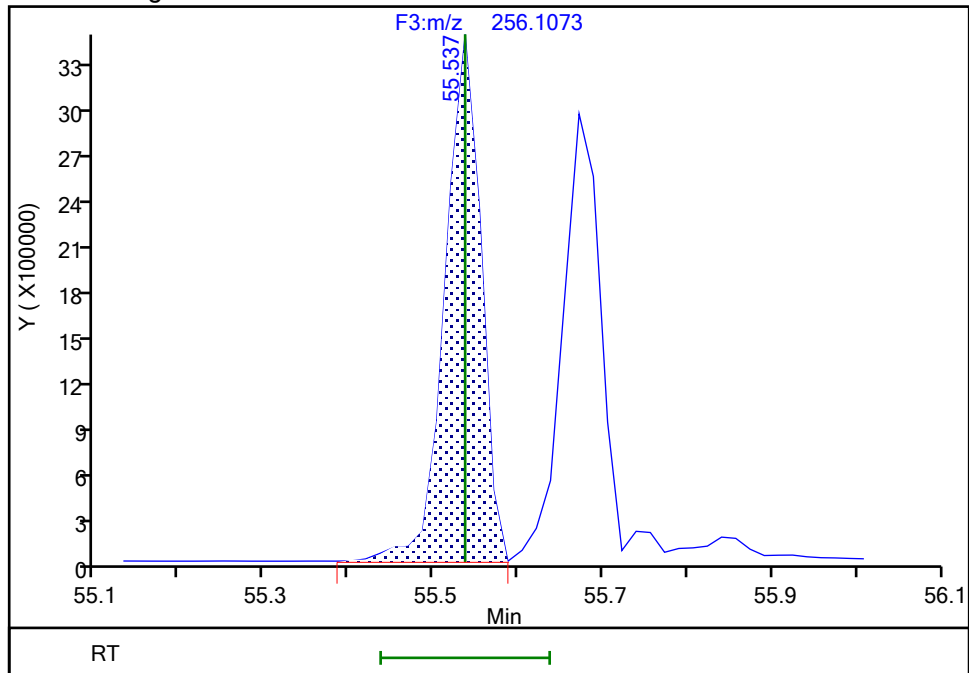
RT: 55.67
Area: 9531212
Amount: 96.795687
Amount Units: pg/ul

Processing Integration Results



RT: 55.54
Area: 10194491
Amount: 103.5317
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 24-Jun-2024 23:50:33 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

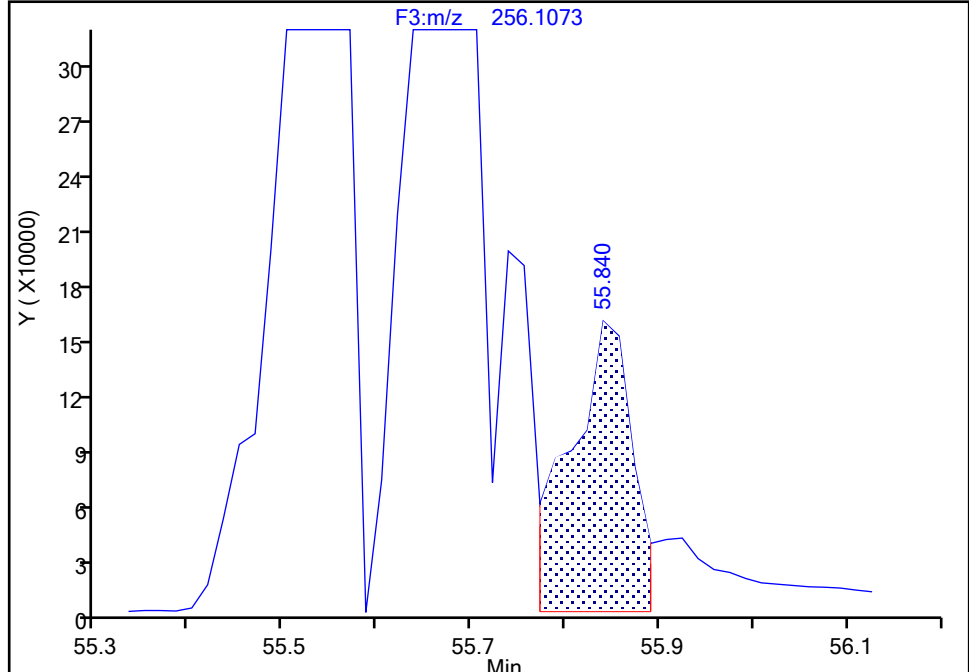
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Injection Date: 24-Jun-2024 22:40:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C4-Benzo(a)pyrene, CAS: STL03359

Signal: 1

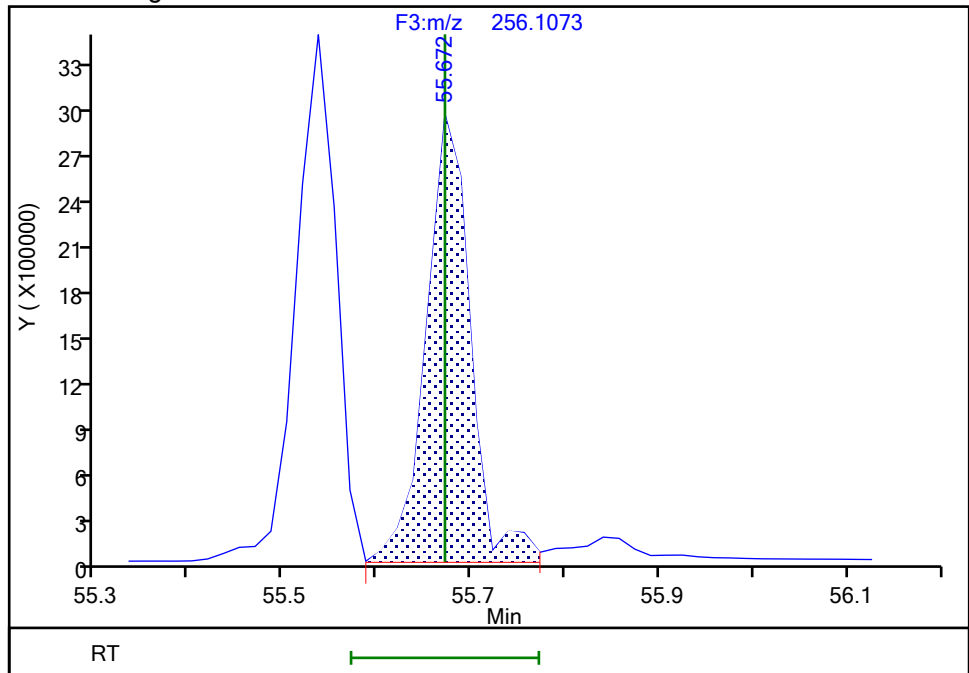
RT: 55.84
Area: 713480
Amount: 7.647926
Amount Units: pg/ul

Processing Integration Results



RT: 55.67
Area: 9531212
Amount: 102.1669
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 24-Jun-2024 23:50:19 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

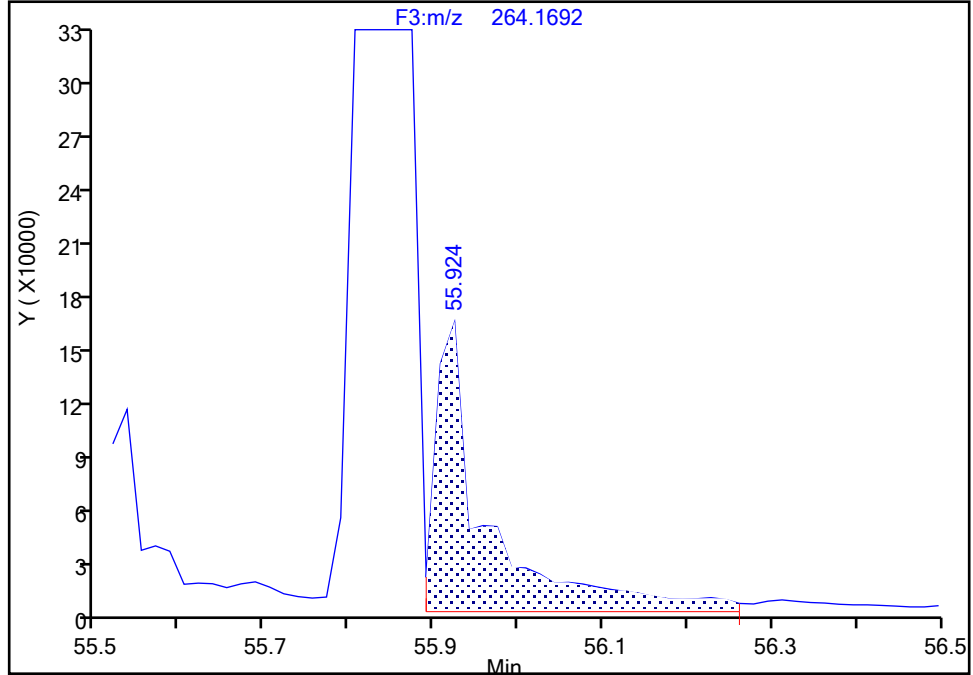
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Injection Date: 24-Jun-2024 22:40:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene-d12, CAS: 1520-96-3

Signal: 1

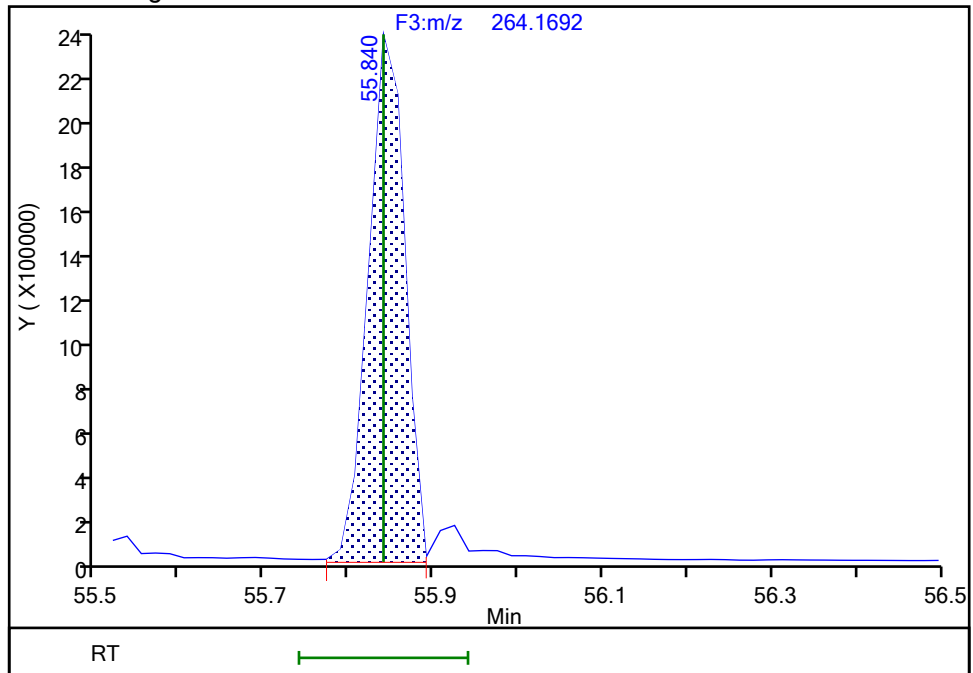
RT: 55.92
Area: 676889
Amount: 9.442145
Amount Units: pg/ul

Processing Integration Results



RT: 55.84
Area: 7114476
Amount: 99.242137
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 24-Jun-2024 23:50:53 -04:00:00 (UTC)

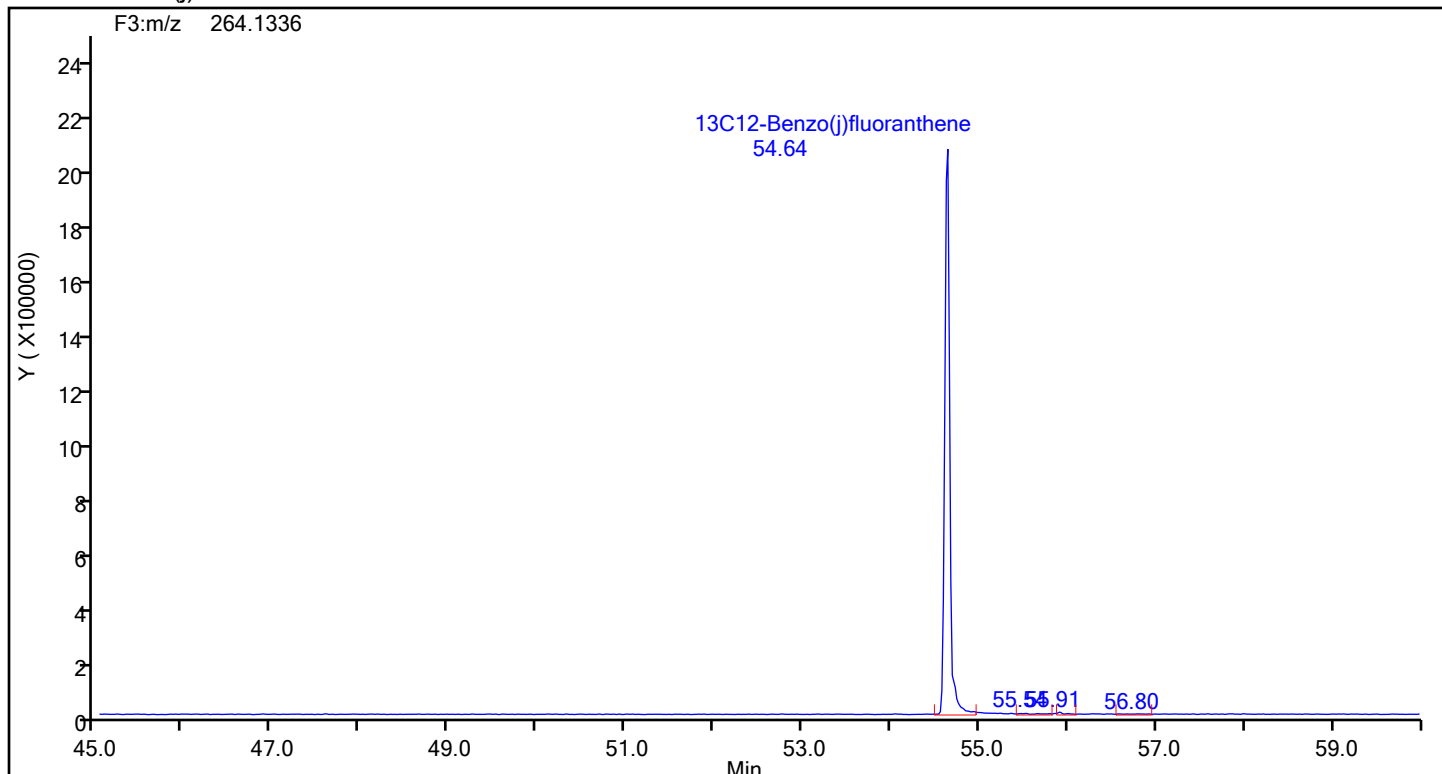
Audit Action: Assigned Compound ID

Audit Reason: Split Peak

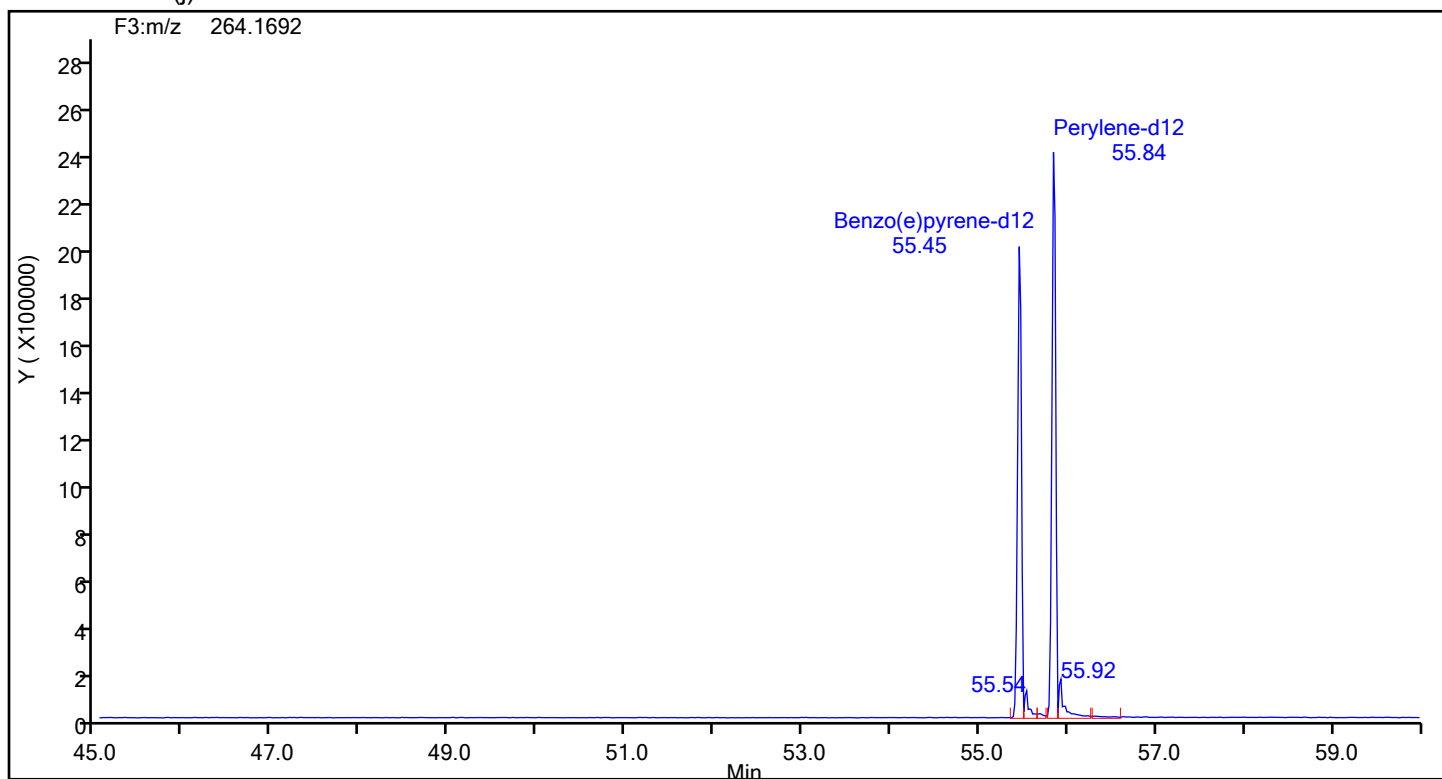
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Injection Date: 24-Jun-2024 22:40:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88048 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards

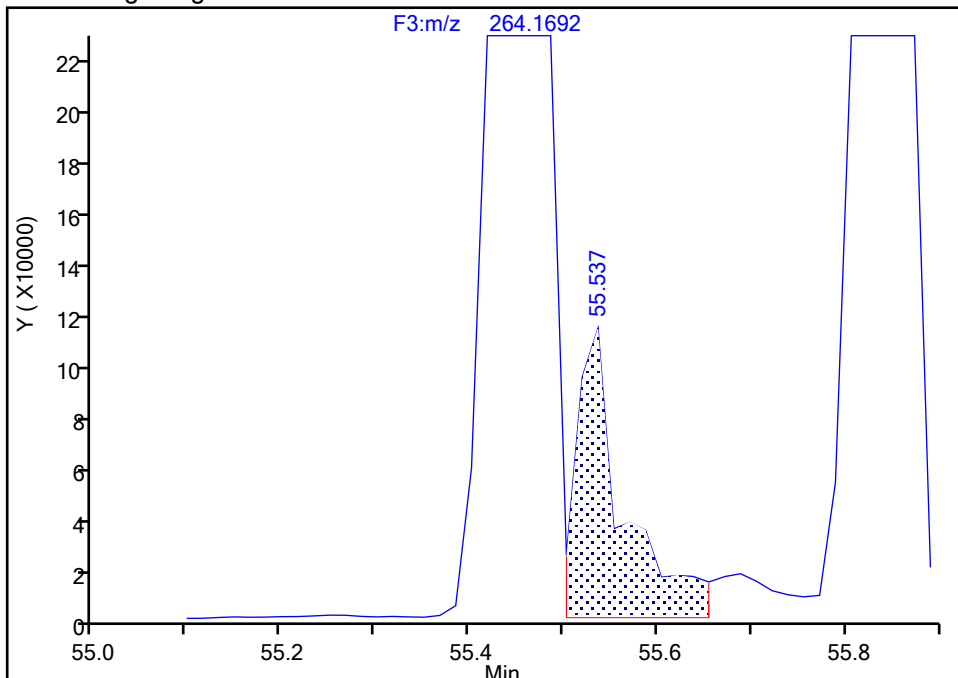


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Injection Date:	24-Jun-2024 22:40:00	Instrument ID:	D3PAH
Lims ID:	CCV		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0 Work
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICA
Column:	Restek-5Sil MS 25um (0.25 mm)	Detector	F3(44.04 :59.98)

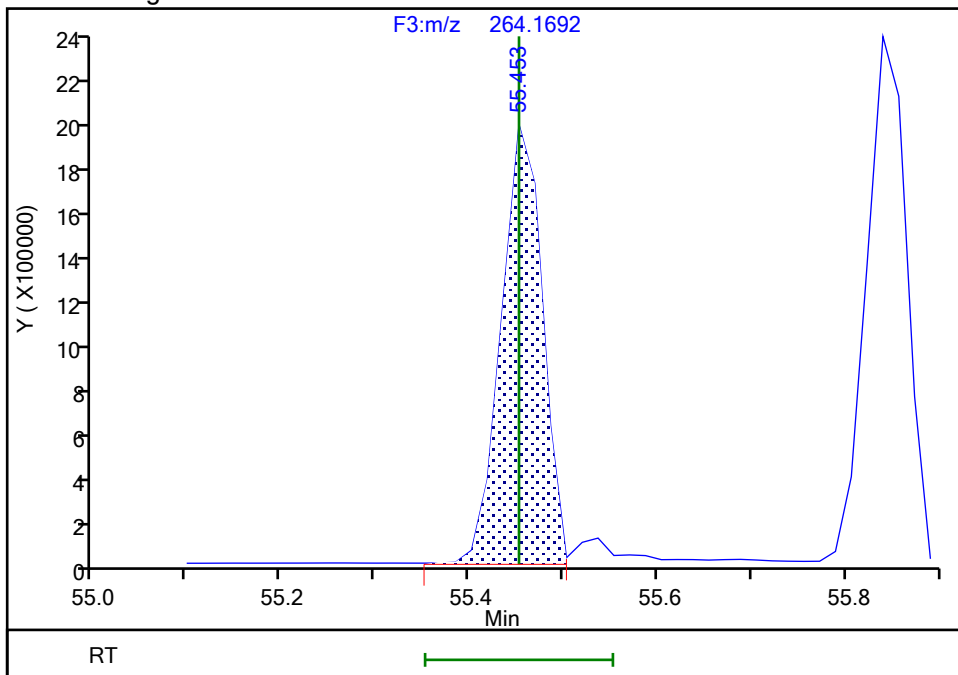
ALS Bottle#:	0	Worklist Smp#:	1
Dil. Factor:	1.0000		
Limit Group:	HR - HRPAAH ICAL		
Detector	F3(44.04 :59.98)		

Signal: 1

Processing Integration Results



Manual Integration Results



Audit Reason: Split Peak

Eurofins Knoxville

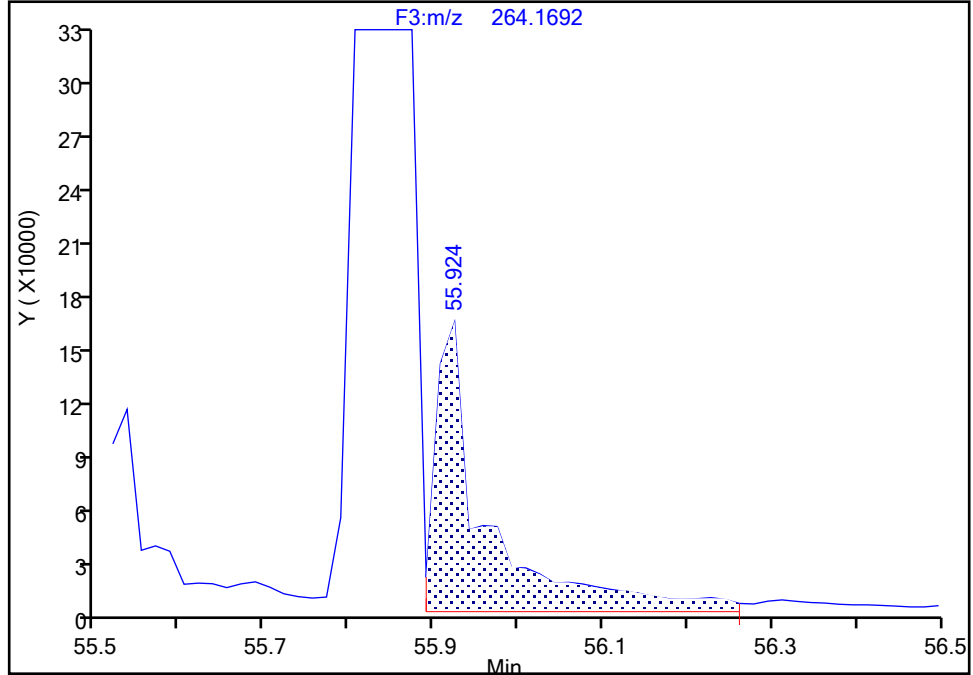
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Injection Date: 24-Jun-2024 22:40:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene-d12, CAS: 1520-96-3

Signal: 1

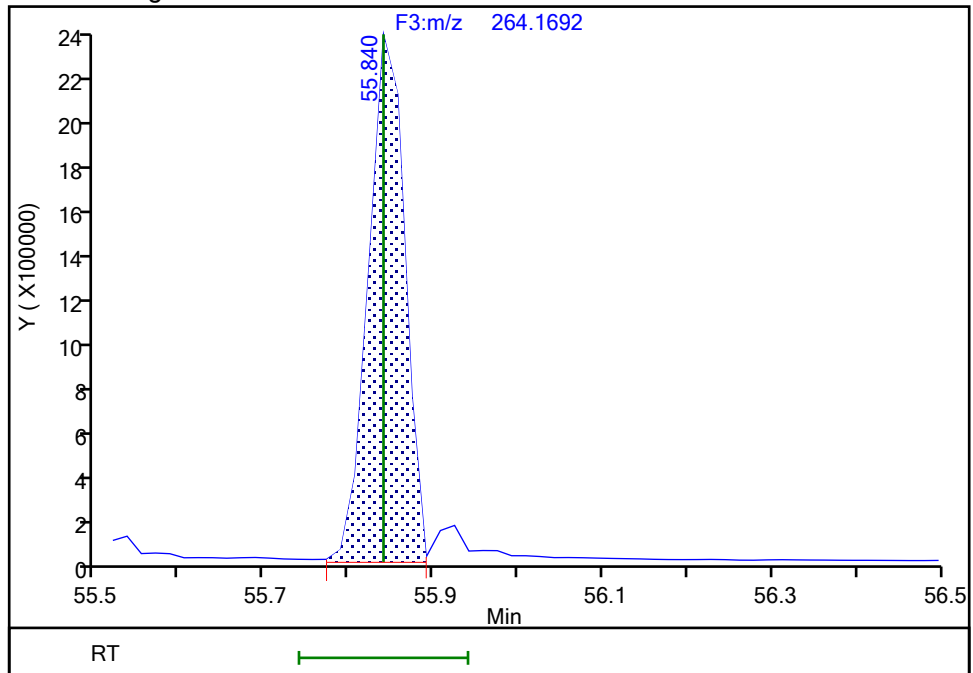
RT: 55.92
Area: 676889
Amount: 9.442145
Amount Units: pg/ul

Processing Integration Results



RT: 55.84
Area: 7114476
Amount: 99.242137
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 24-Jun-2024 23:50:53 -04:00:00 (UTC)

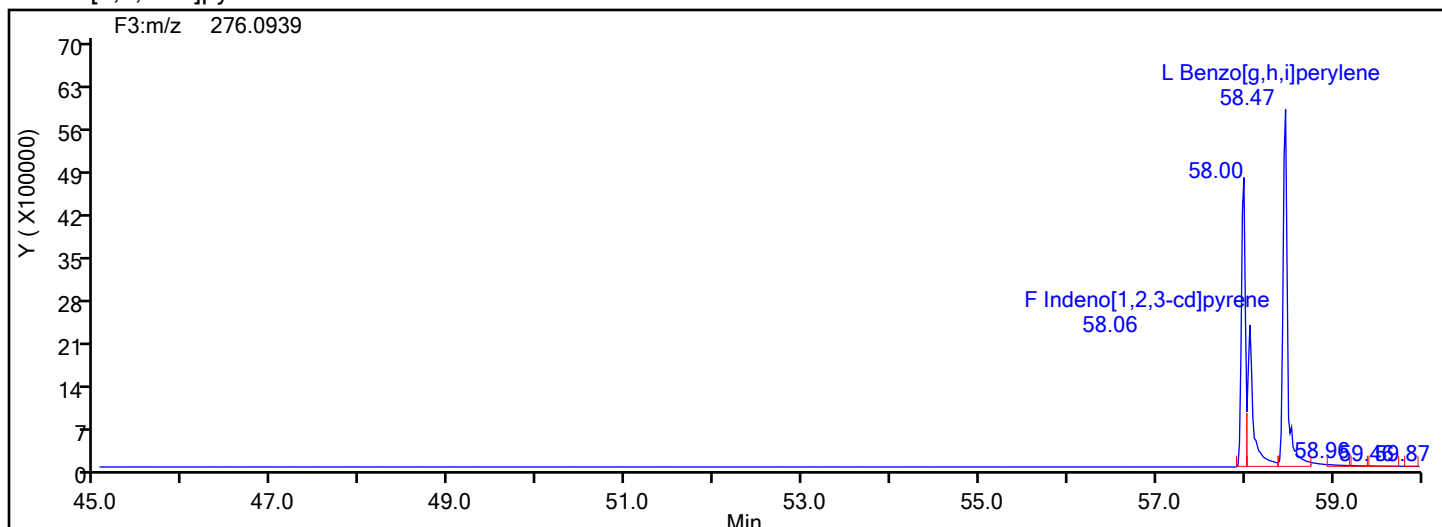
Audit Action: Assigned Compound ID

Audit Reason: Split Peak

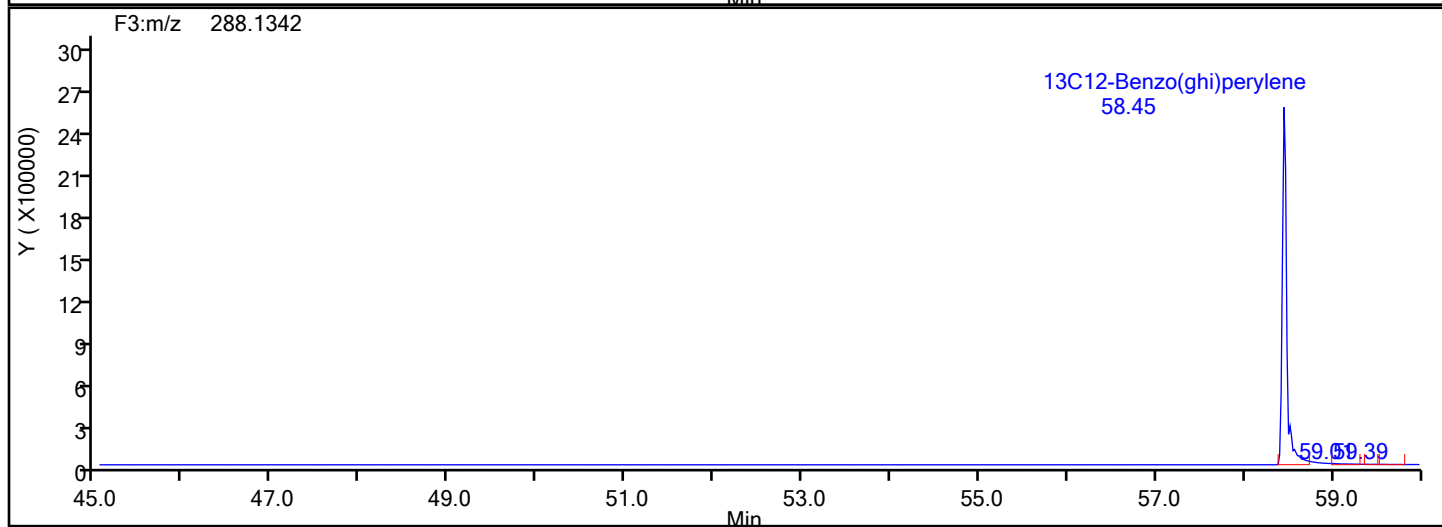
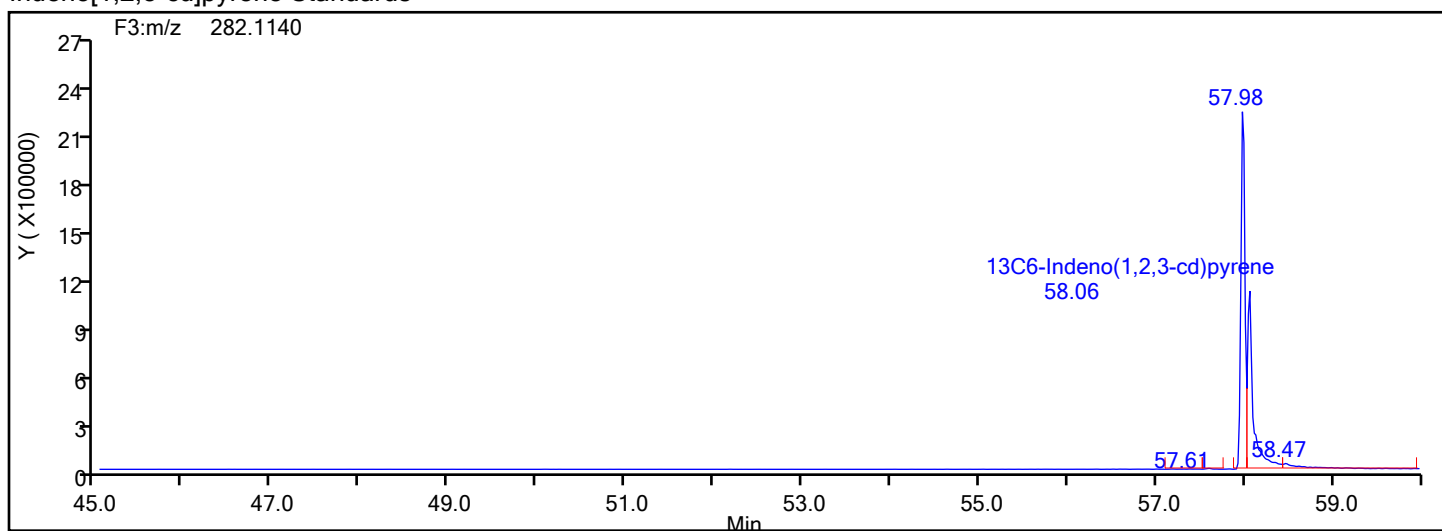
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Injection Date: 24-Jun-2024 22:40:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88048 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



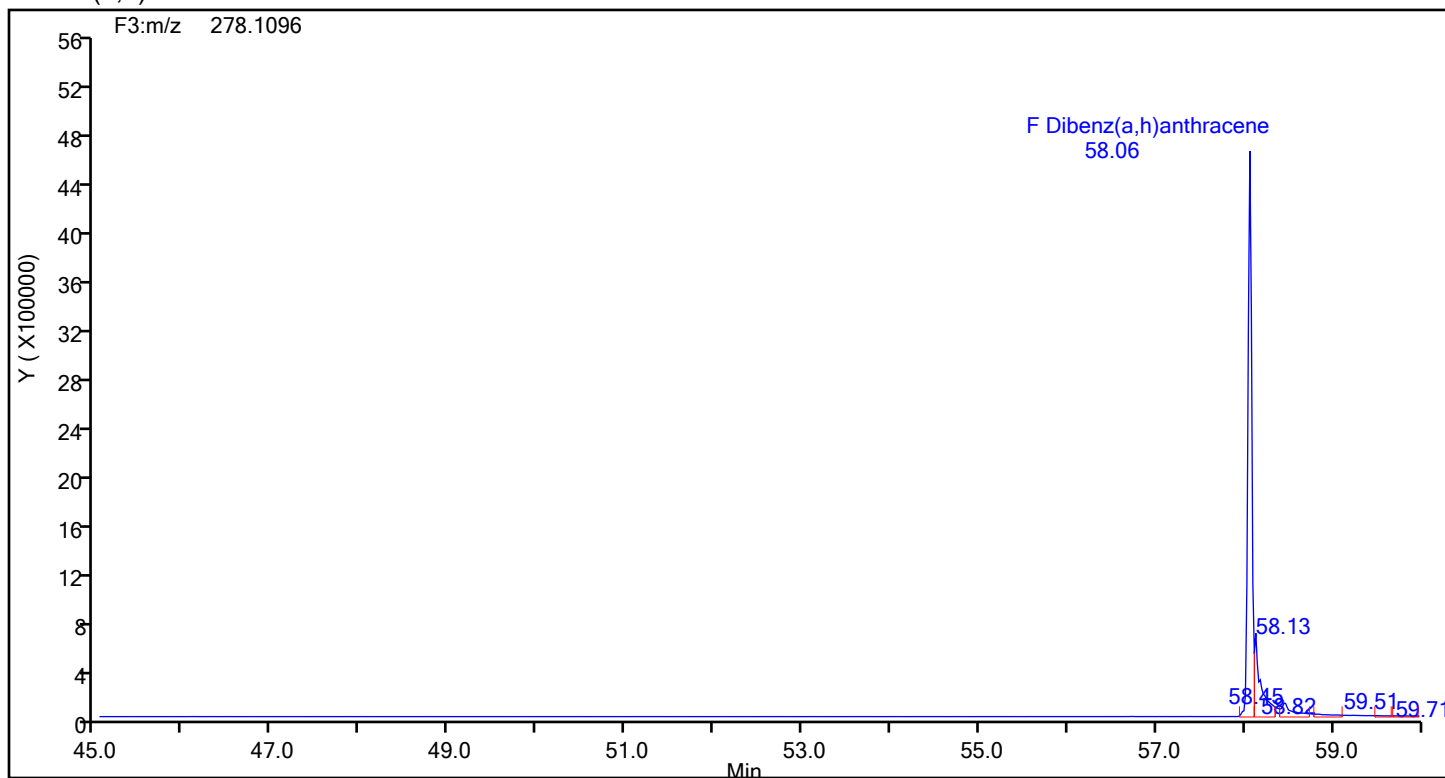
Indeno[1,2,3-cd]pyrene Standards



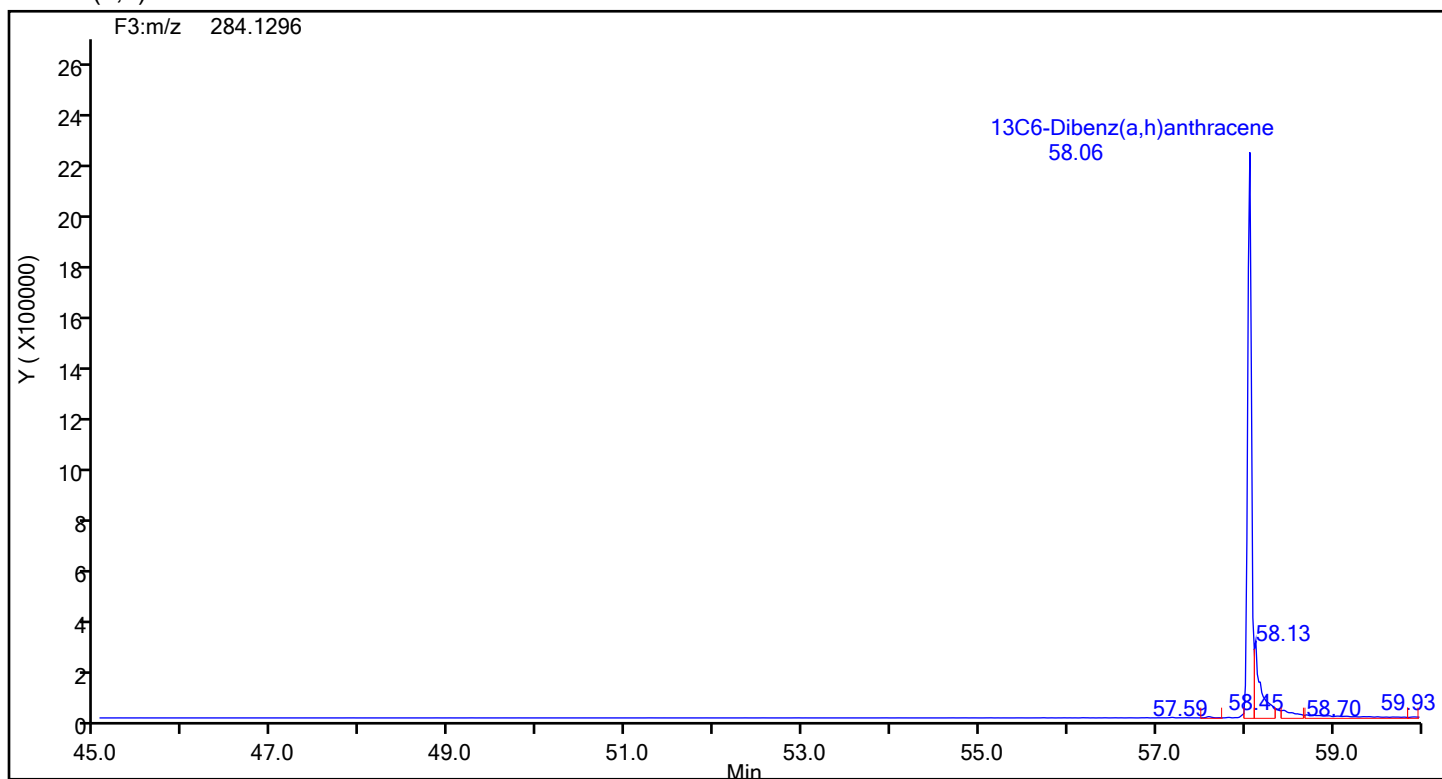
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Injection Date: 24-Jun-2024 22:40:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88048 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

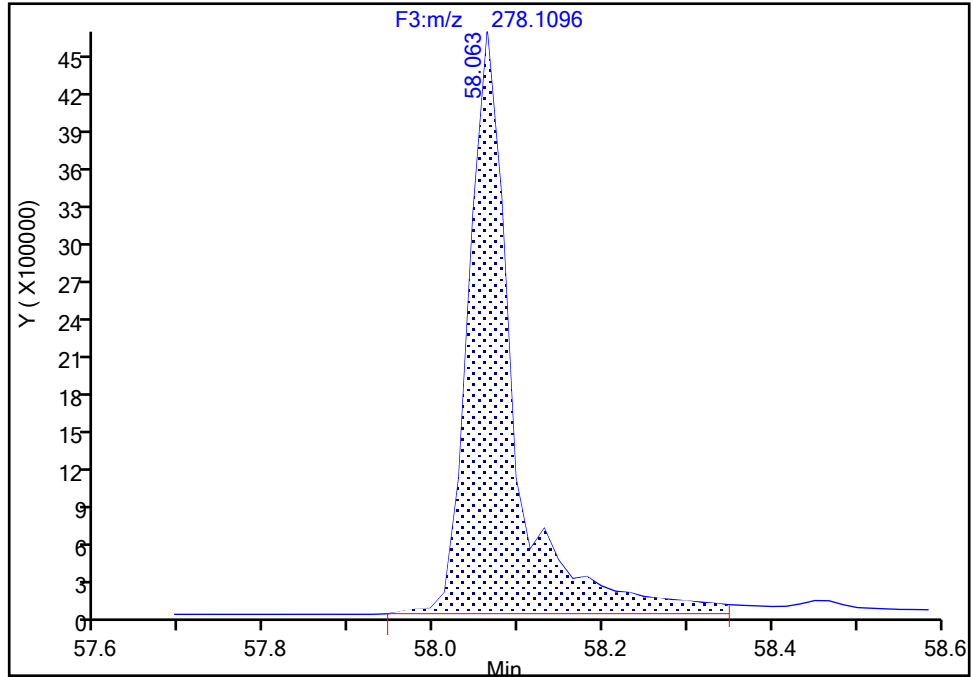
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Injection Date: 24-Jun-2024 22:40:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

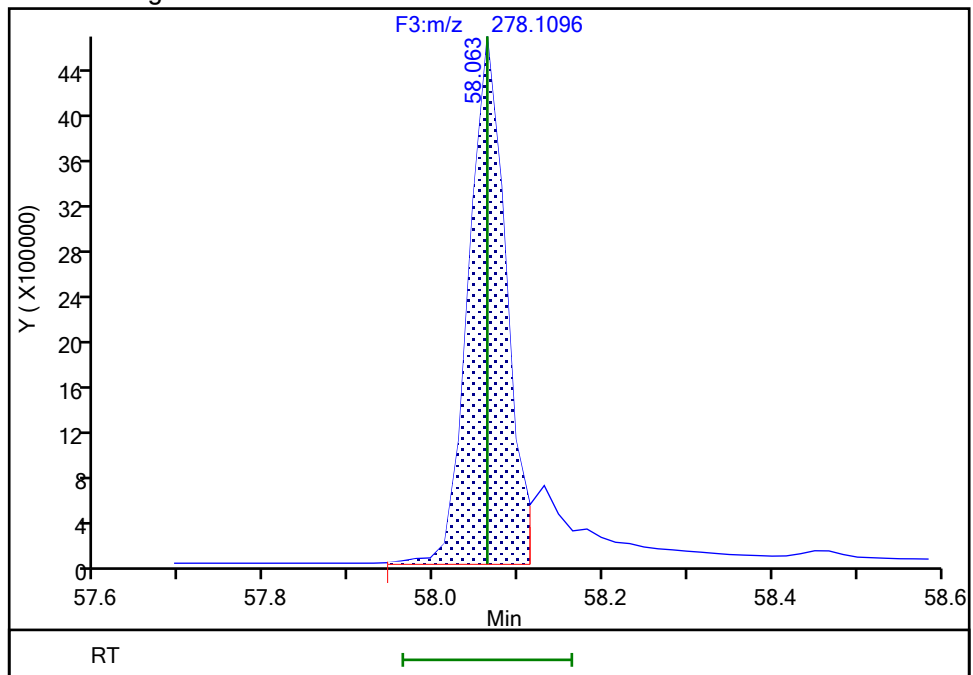
RT: 58.06
Area: 17203232
Amount: 219.4817
Amount Units: pg/ul

Processing Integration Results



RT: 58.06
Area: 14199192
Amount: 181.1556
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 24-Jun-2024 23:51:47 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

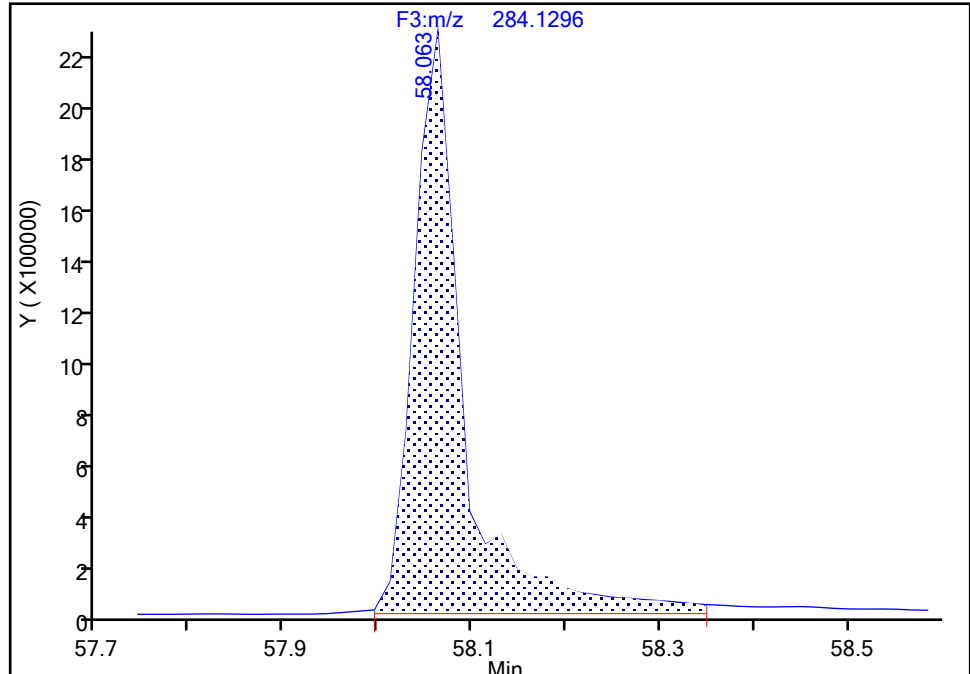
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240624-33236.b\d3240624c1c.d
Injection Date: 24-Jun-2024 22:40:00 Instrument ID: D3PAH
Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

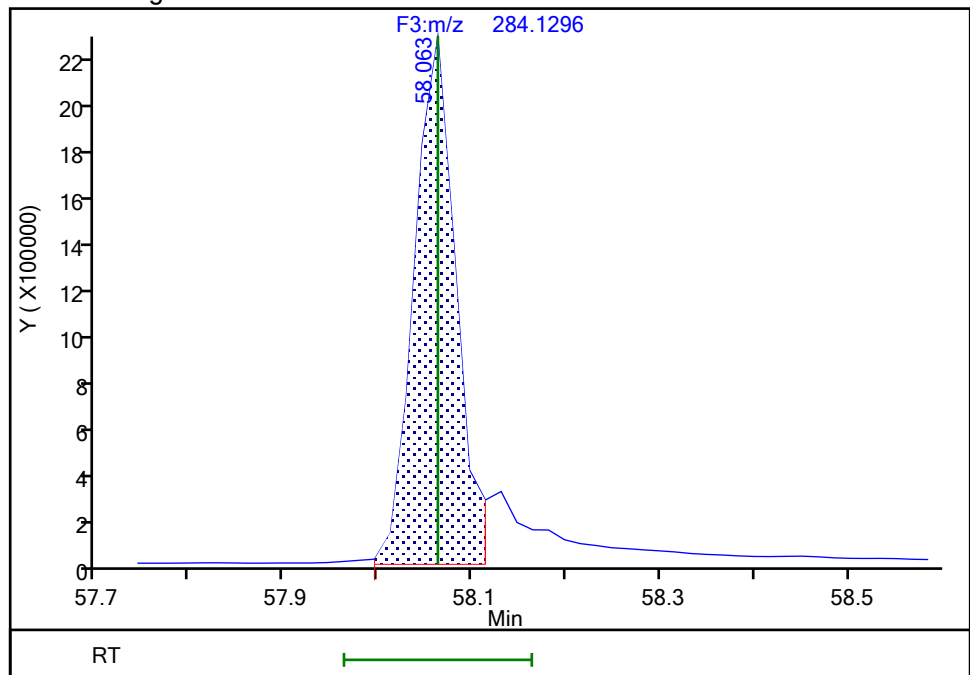
RT: 58.06
Area: 8284351
Amount: 130.4995
Amount Units: pg/ul

Processing Integration Results



RT: 58.06
Area: 6927965
Amount: 109.1330
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 24-Jun-2024 23:51:38 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: CCV 140-88079/1 Calibration Date: 06/25/2024 11:07

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240625c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.199		186	200	-7.0	25.0
2-Methylnaphthalene	AveID	1.279	1.178		184	200	-7.8	25.0
Acenaphthylene	AveID	2.366	2.197		186	200	-7.1	25.0
Acenaphthene	AveID	1.270	1.162		183	200	-8.5	25.0
Fluorene	AveID	1.253	1.178		188	200	-6.0	25.0
Phenanthrene	AveID	1.104	1.017		184	200	-7.9	25.0
Anthracene	AveID	1.359	1.238		182	200	-8.9	25.0
Fluoranthene	AveID	1.151	1.098		191	200	-4.6	25.0
Pyrene	AveID	1.065	1.011		190	200	-5.1	25.0
Benzo[a]anthracene	AveID	0.9739	0.9208		189	200	-5.4	25.0
Chrysene	AveID	0.9815	0.9448		193	200	-3.7	25.0
Benzo[b]fluoranthene	AveID	1.125	1.052		187	200	-6.5	25.0
Benzo[k]fluoranthene	AveID	1.127	1.026		182	200	-8.9	25.0
Benzo[e]pyrene	AveID	1.001	0.9356		187	200	-6.6	25.0
Benzo[a]pyrene	AveID	1.113	1.045		188	200	-6.1	25.0
Perylene	AveID	1.431	1.322		185	200	-7.6	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.153		205	200	2.5	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.045		185	200	-7.6	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.101		172	200	-14.3	25.0
13C6-Naphthalene	Ave	3.375	3.033		89.9	100	-10.1	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.374		85.7	100	-14.3	30.0
13C6-Acenaphthylene	Ave	1.652	1.603		97.1	100	-2.9	30.0
13C6-Acenaphthene	Ave	0.9792	0.9802		100	100	0.1	30.0
13C6-Fluorene	Ave	0.8898	0.9053		102	100	1.7	30.0
13C6-Phenanthrene	Ave	0.5724	0.6616		116	100	15.6	30.0
13C6-Anthracene	Ave	0.4523	0.5206		115	100	15.1	30.0
13C6-Fluoranthrene	Ave	1.199	1.202		100	100	0.2	30.0
13C3-Pyrene	Ave	1.351	1.358		101	100	0.5	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.447		95.2	100	-4.8	30.0
13C6-Chrysene	Ave	1.629	1.578		96.9	100	-3.1	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.544		106	100	5.6	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.803		103	100	3.0	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.595		97.4	100	-2.6	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.538		99.2	100	-0.8	30.0
Perylene-d12	Ave	1.192	1.212		102	100	1.7	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.121		110	100	9.7	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.356		129	100	28.5	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.530		120	100	20.0	30.0

Resolution Check Report (DFS SN: 3439)

Date: 25 Jun 2024 10:26
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

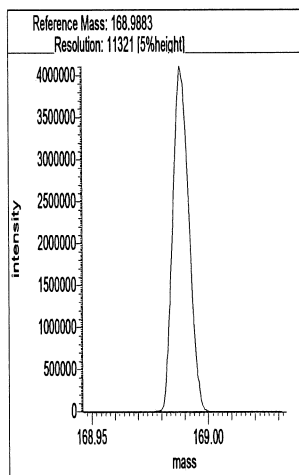
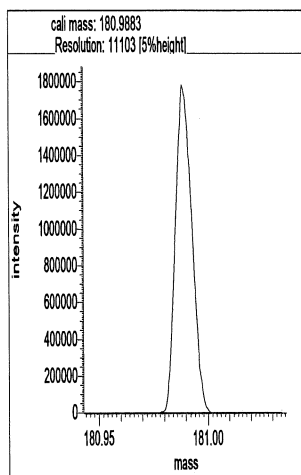
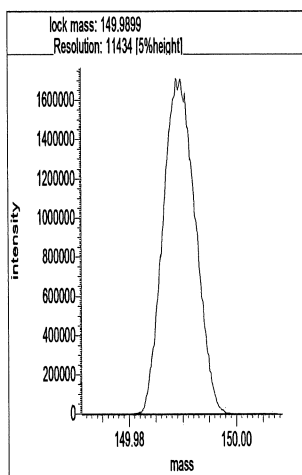
d3240625r2

Segment 1

Lock mass 149.9899 [m/z] Resolution: 11434 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 11103 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 11321 [5%height]

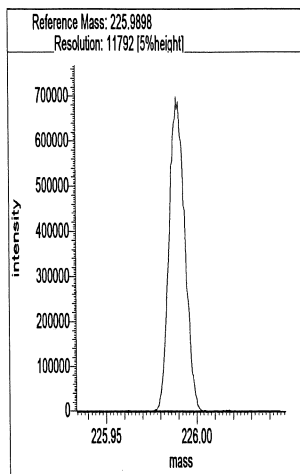
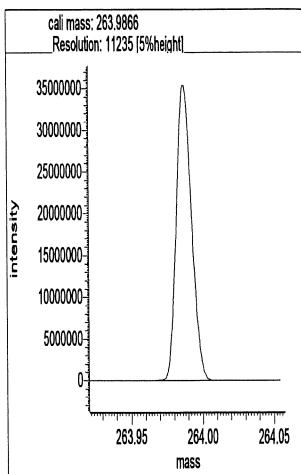
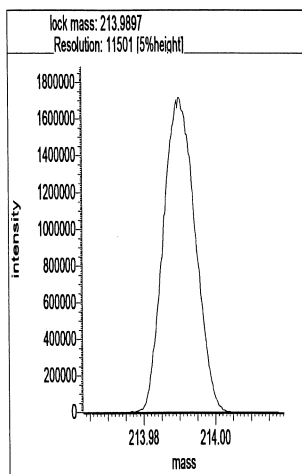


Segment 2

Lock mass 213.9897 [m/z] Resolution: 11501 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 11235 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 11792 [5%height]

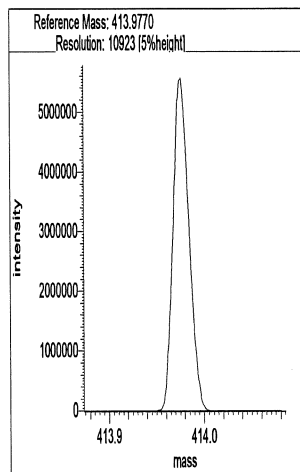
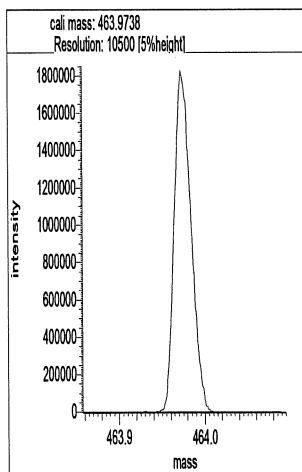
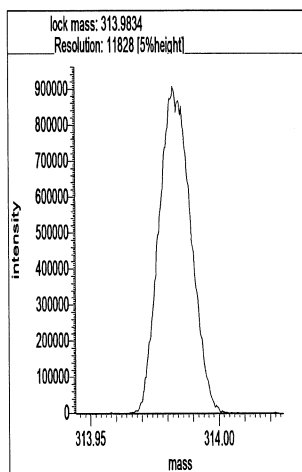


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11828 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 10500 [5%height]

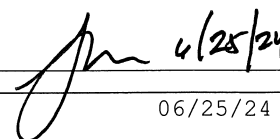
Ref. mass 413.9770 [m/z] Resolution: 10923 [5%height]



Reports

11:02:43: Peak matching procedure started
11:02:44:
11:02:44: Reference mass: 263.98656
11:02:45: Sample mass: 414.0
11:02:45:
11:02:46: Finding reference mass
11:02:47: Finding sample mass
11:02:47:
11:02:53: [1] 413.9604 amu, mean: 413.9604
11:02:56: [2] 413.9604 amu, mean: 413.9604 SD: 0.01 mmu or: 0.03 ppm
11:02:59: [3] 413.9600 amu, mean: 413.9603 SD: 0.22 mmu or: 0.52 ppm
11:03:02: [4] 413.9601 amu, mean: 413.9602 SD: 0.20 mmu or: 0.47 ppm
11:03:06: [5] 413.9595 amu, mean: 413.9601 SD: 0.38 mmu or: 0.91 ppm
11:03:09: [6] 413.9589 amu, mean: 413.9599 SD: 0.58 mmu or: 1.40 ppm
11:03:12: [7] 413.9591 amu, mean: 413.9598 SD: 0.60 mmu or: 1.46 ppm
11:03:15: [8] 413.9586 amu, mean: 413.9596 SD: 0.69 mmu or: 1.67 ppm
11:03:18: [9] 413.9588 amu, mean: 413.9595 SD: 0.71 mmu or: 1.71 ppm
11:03:21: [10] 413.9588 amu, mean: 413.9595 SD: 0.70 mmu or: 1.70 ppm
11:03:24: [11] 413.9591 amu, mean: 413.9594 SD: 0.68 mmu or: 1.64 ppm
11:03:25:
11:03:25: Stop requested. Please wait for procedure to finish.
11:03:25:
11:03:28:

Signature

Handwritten signature in black ink, appearing to be 'Jm' followed by the date '6/25/24'.

Resolution Check Report (DFS SN: 3439)

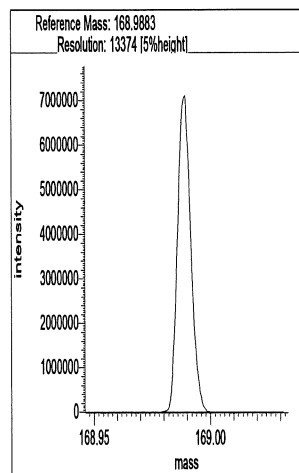
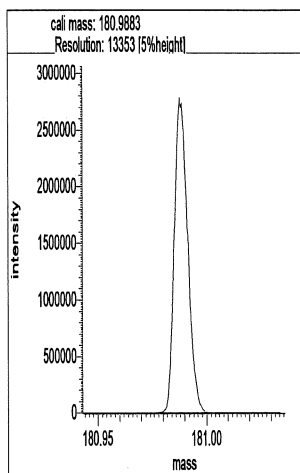
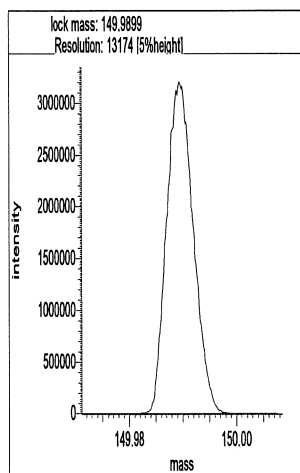
Date: 25 Jun 2024 21:26
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

Segment 1

Lock mass 149.9899 [m/z] Resolution: 13174 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 13353 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 13374 [5%height]



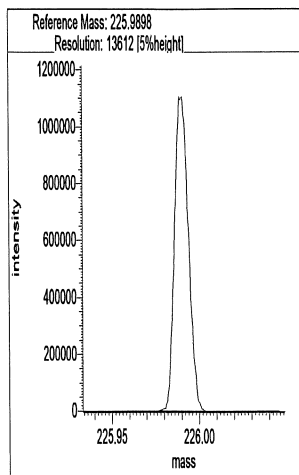
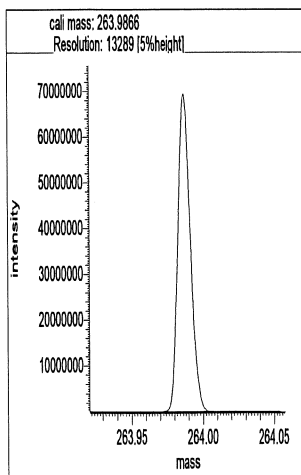
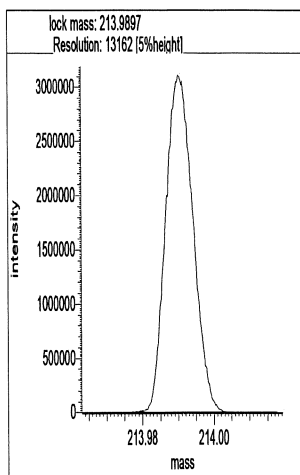
Segment 2

Lock mass 213.9897 [m/z] Resolution: 13162 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 13289 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 13612 [5%height]

d3240625r4

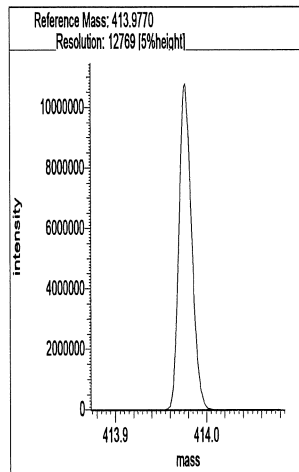
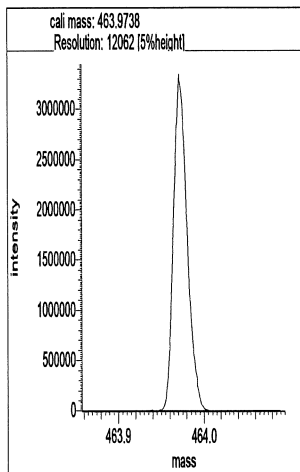
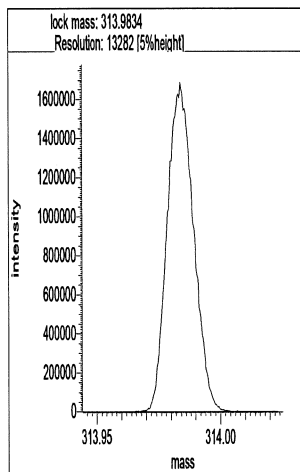


Segment 3

Lock mass 313.9834 [m/z] Resolution: 13282 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 12062 [5%height]

Ref. mass 413.9770 [m/z] Resolution: 12769 [5%height]



Reports

21:33:33: Peak matching procedure started
21:33:33:
21:33:34: Reference mass: 263.98656
21:33:34: Sample mass: 414.0
21:33:35:
21:33:35: Finding reference mass
21:33:36: Finding sample mass
21:33:37:
21:33:42: [1] 413.9807 amu, mean: 413.9807 SD: 0.01 mmu or: 0.03 ppm
21:33:46: [2] 413.9807 amu, mean: 413.9807 SD: 0.05 mmu or: 0.12 ppm
21:33:49: [3] 413.9806 amu, mean: 413.9807 SD: 0.08 mmu or: 0.20 ppm
21:33:52: [4] 413.9805 amu, mean: 413.9806 SD: 0.24 mmu or: 0.58 ppm
21:33:55: [5] 413.9801 amu, mean: 413.9805 SD: 0.23 mmu or: 0.55 ppm
21:33:58: [6] 413.9803 amu, mean: 413.9805 SD: 0.24 mmu or: 0.58 ppm
21:34:01: [7] 413.9808 amu, mean: 413.9805 SD: 0.22 mmu or: 0.54 ppm
21:34:04: [8] 413.9805 amu, mean: 413.9805 SD: 0.29 mmu or: 0.69 ppm
21:34:07: [9] 413.9811 amu, mean: 413.9806 SD: 0.30 mmu or: 0.74 ppm
21:34:11: [10] 413.9810 amu, mean: 413.9807 SD: 0.33 mmu or: 0.80 ppm
21:34:14: [11] 413.9812 amu, mean: 413.9807
21:34:14: Stop requested. Please wait for procedure to finish.
21:34:14:
21:34:17:
21:34:17: Peakmatching stopped

Signature

mmp 6/25/24

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\d3240625c1a.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2024 11:07:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 25-Jun-2024 12:15:02 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: F9EE

Date: 25-Jun-2024 12:14:19

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	14931777		3.3746	89.9	89.9	0.005958	0.005958	89.88	
Naphthalene	11:34	35815178		1.2893	186.0	186.0	0.0265	0.0265	93.02	
D 13C6-2-Methylnaphthalene	13:52	6764618		1.6031	85.7	85.7	0.000614	0.000614	85.72	
2-Methylnaphthalene	13:53	15941602		1.2786	184.3	184.3	0.0155	0.0155	92.16	
D 13C6-Acenaphthylene	16:45	7893317		1.6520	97.1	97.1	0.001754	0.001754	97.06	
Acenaphthylene	16:45	21207157		2.3661	185.7	185.7	0.0148	0.0148	92.87	
* Acenaphthene-d10	17:20	4922932		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:27	4825348		0.9792	100.1	100.1	0.002959	0.002959	100	
Acenaphthene	17:27	11212479		1.2697	183.0	183.0	0.0171	0.0171	91.51	
D 13C6-Fluorene	19:44	4456619		0.8898	101.7	101.7	0.000781	0.000781	102	
Fluorene	19:45	10503012		1.2532	188.1	188.1	0.0178	0.0178	94.03	
D 13C6-Phenanthrene	25:08	7112289		0.5724	115.6	115.6	0.001847	0.001847	116	
Phenanthrene	25:08	14461971		1.1044	184.1	184.1	0.0199	0.0199	92.05	
\$ Anthracin-d10	25:20	5109104		0.4257	111.6	111.6	0.001129	0.001129	112	
D 13C6-Anthracene	25:27	5596905		0.4523	115.1	115.1	0.002337	0.002337	115	
Anthracene	25:27	13856681		1.3586	182.2	182.2	0.0214	0.0214	91.12	
D 13C6-Fluoranthrene	33:52	12919779		1.1994	100.2	100.2	0.0208	0.0208	100	
Fluoranthene	33:53	28378791		1.1513	190.8	190.8	0.0106	0.0106	95.39	
* Pyrene-d10	35:25	10750372		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	14604103		1.3512	100.5	100.5	0.0109	0.0109	101	
Pyrene	35:34	29538090		1.0652	189.9	189.9	0.0105	0.0105	94.94	
\$ 13C6-Benzo(c)fluorene	39:16	5415103		0.5136	98.1	98.1	0.003462	0.003462	98.08	
D 13C6-Benzo(a)anthracene	46:06	10479704		1.5189	95.2	95.2	0.0116	0.0116	95.24	
Benzo[a]anthracene	46:06	19300324		0.9739	189.1	189.1	0.0210	0.0210	94.56	
D 13C6-Chrysene	46:22	11431216		1.6287	96.9	96.9	0.0108	0.0108	96.88	
Chrysene	46:22	21599692		0.9815	192.5	192.5	0.0199	0.0199	96.26	
D 13C6-Benzo(b)fluoranthene	54:38	11187708		1.4621	105.6	105.6	0.000957	0.000957	106	
Benzo[b]fluoranthene	54:39	23528252		1.1249	187.0	187.0	0.003932	0.003932	93.48	
\$ 13C12-Benzo(j)fluoranthene	54:40	9841062		1.3558	100.2	100.2	0.0243	0.0243	100	
D 13C6-Benzo(k)fluoranthene	54:46	13065237		1.7507	103.0	103.0	0.000799	0.000799	103	
Benzo[k]fluoranthene	54:46	26821087		1.1271	182.1	182.1	0.003647	0.003647	91.07	
* Benzo(e)pyrene-d12	55:30	7244561		5.7E+04	100.0	100.0				
Benzo[e]pyrene	55:35	21614421		1.0013	186.9	186.9	0.003620	0.003620	93.44	
D 13C4-Benzo(e)pyrene	55:35	11551633		1.6368	97.4	97.4	0.009617	0.009617	97.41	

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\d3240625c1a.d

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[a]pyrene	55:43	23287510		1.1130	187.7	187.7	0.003471	0.003471	93.87	
D 13C4-Benzo(a)pyrene	55:43	11144179		1.5508	99.2	99.2	0.0102	0.0102	99.19	
D Perylene-d12	55:53	8778364		1.1917	101.7	101.7	0.0259	0.0259	102	
Perylene	55:57	23214614		1.4307	184.8	184.8	0.003233	0.003233	92.42	
Indeno[1,2,3-cd]pyrene	58:01	18719878		1.1249	205.0	205.0	0.003651	0.003651	102	M
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	8119178		1.0218	109.7	109.7	0.009414	0.009414	110	a
D 13C6-Dibenz(a,h)anthracene	58:05	9825745		1.0553	128.5	128.5	0.004227	0.004227	129	
Dibenz(a,h)anthracene	58:06	20539866		1.1314	184.8	184.8	0.002820	0.002820	92.38	
D 13C12-Benzo(ghi)perylene	58:30	11082432		1.2749	120.0	120.0	0.004973	0.004973	120	
Benzo[g,h,i]perylene	58:30	24394198		1.2838	171.5	171.5	0.002803	0.002803	85.73	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61HRPAHCS5a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\d3240625c1a.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2024 11:07:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240625-33250.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 25-Jun-2024 12:15:02 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: F9EE

Date: 25-Jun-2024 12:14:19

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	0	0.666	14931777	4974177	139	347	35785		
Naphthalene											
128.0626	11:34	11:34	0	1.001	35815178	12442576	680	1700	18298		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	0	0.800	6764618	3111618	7	17	444517		
2-Methylnaphthalene											
142.0783	13:53	13:53	0	1.001	15941602	7434171	246	615	30220		
13C6-Acenaphthylene											
158.0828	16:45	16:45	0	0.967	7893317	2775844	20	50	138792		
Acenaphthylene											
152.0626	16:45	16:45	0	1.000	21207157	7675836	229	572	33519		
Acenaphthene-d10											
164.1404	17:20	17:20	0		4922932	1725785	7	17	246541		
13C6-Acenaphthene											
160.0984	17:27	17:27	0	1.007	4825348	1633023	20	50	81651		E
Acenaphthene											
154.0783	17:27	17:27	0	1.000	11212479	3856181	142	355	27156		
13C6-Fluorene											
172.0984	19:44	19:44	0	1.139	4456619	1305721	5	12	261144		E
Fluorene											
166.0783	19:45	19:45	0	1.001	10503012	3097090	117	292	26471		
13C6-Phenanthrene											
184.0984	25:08	25:08	0	0.709	7112289	1690963	9	22	187885		E
Phenanthrene											
178.0783	25:08	25:08	0	1.000	14461971	3431821	149	372	23032		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:20	0	0.715	5109104	1176021	4	10	294005		
13C6-Anthracene											
184.0984	25:27	25:27	0	0.719	5596905	1282337	9	22	142482		E
Anthracene											
178.0783	25:27	25:27	0	1.000	13856681	3032774	149	372	20354		
13C6-Fluoranthrene											
208.0984	33:52	33:52	0	0.956	12919779	2534049	208	520	12183		E
Fluoranthene											
202.0783	33:53	33:53	0	1.000	28378791	5629925	124	310	45403		
Pyrene-d10											
212.1404	35:25	35:25	0		10750372	2080818	62	155	33562		
13C3-Pyrene											
205.0883	35:34	35:34	0	1.004	14604103	2776881	123	307	22576		E
Pyrene											
202.0783	35:34	35:34	0	1.000	29538090	5669520	124	310	45722		
13C6-Benzo(c)fluorene											
222.1134	39:16	39:16	0	0.708	5415103	997849	15	37	66523		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:06	0	1.301	10479704	1885920	161	402	11714		
Benzo[a]anthracene											
228.0939	46:06	46:06	0	1.000	19300324	3503893	154	385	22753		
13C6-Chrysene											
234.1140	46:22	46:22	0	1.309	11431216	1968091	161	402	12224		
Chrysene											
228.0939	46:22	46:22	0	1.000	21599692	3688775	154	385	23953		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:38	0	0.985	11187708	2984327	13	32	229564		E
Benzo[b]fluoranthene											
252.0939	54:39	54:39	0	1.000	23528252	6402204	53	132	120796		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:40	0	0.985	9841062	2518757	301	752	8368		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:46	0	0.987	13065237	3211314	13	32	247024		E
Benzo[k]fluoranthene											
252.0939	54:46	54:46	0	1.000	26821087	7088131	53	132	133738		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	0		7244561	2286883	282	705	8110		
Benzo[e]pyrene											
252.0939	55:35	55:35	0	1.000	21614421	7289538	53	132	137539		
13C4-Benzo(e)pyrene											
256.1073	55:35	55:35	0	1.002	11551633	3642120	144	360	25293		
Benzo[a]pyrene											
252.0939	55:43	55:43	0	1.000	23287510	7220694	53	132	136240		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:43	0	1.004	11144179	3416371	144	360	23725		
Perylene-d12											
264.1692	55:53	55:53	0	1.007	8778364	2854018	282	705	10121		E
Perylene											
252.0939	55:57	55:57	0	1.001	23214614	8169761	53	132	154146		
Indeno[1,2,3-cd]pyrene											M
276.0939	58:01	58:01	0	1.000	18719878	5875967	45	112	130577		M
13C6-Indeno(1,2,3-cd)pyrene											a
282.1140	58:01	58:01	0	1.046	8119178	2726754	88	220	30986		Ea
13C6-Dibenz(a,h)anthracene											
284.1296	58:05	58:05	0	1.047	9825745	2570511	41	102	62695		E
Dibenz(a,h)anthracene											
278.1096	58:06	58:06	0	1.000	20539866	5105707	33	82	154718		
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	11082432	3112896	58	145	53671		E
Benzo[g,h,i]perylene											
276.0939	58:30	58:30	0	1.000	24394198	7137413	45	112	158609		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61HRPAHCS5a_00002

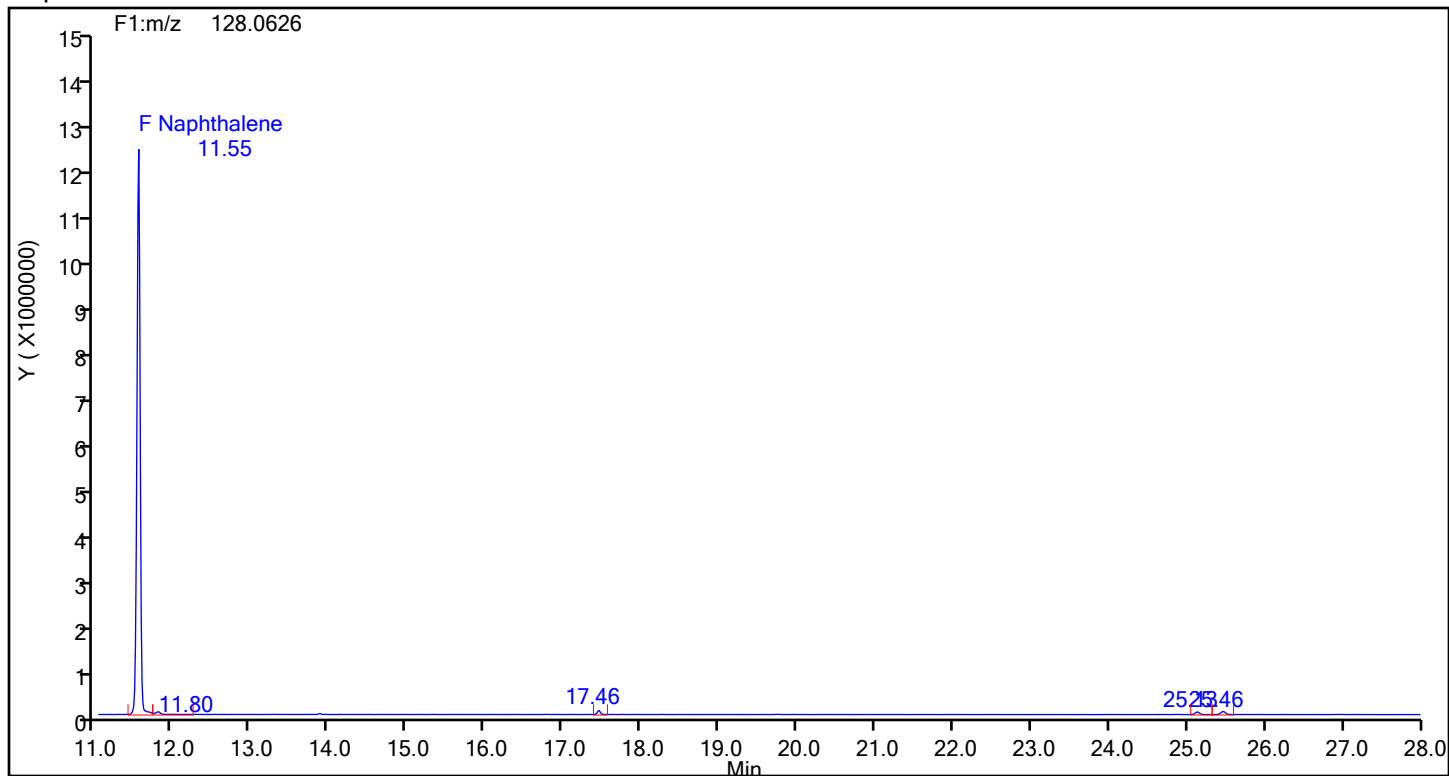
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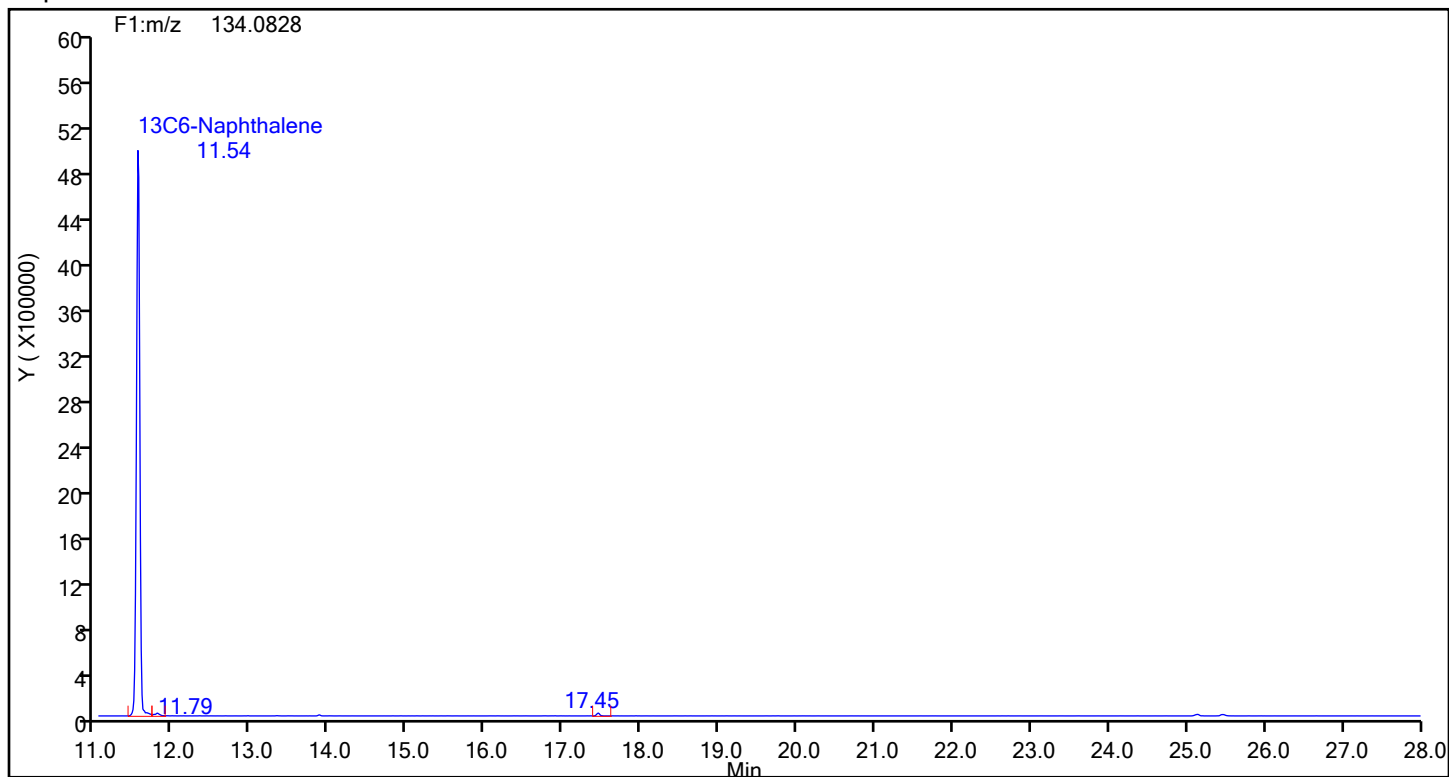
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88079 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



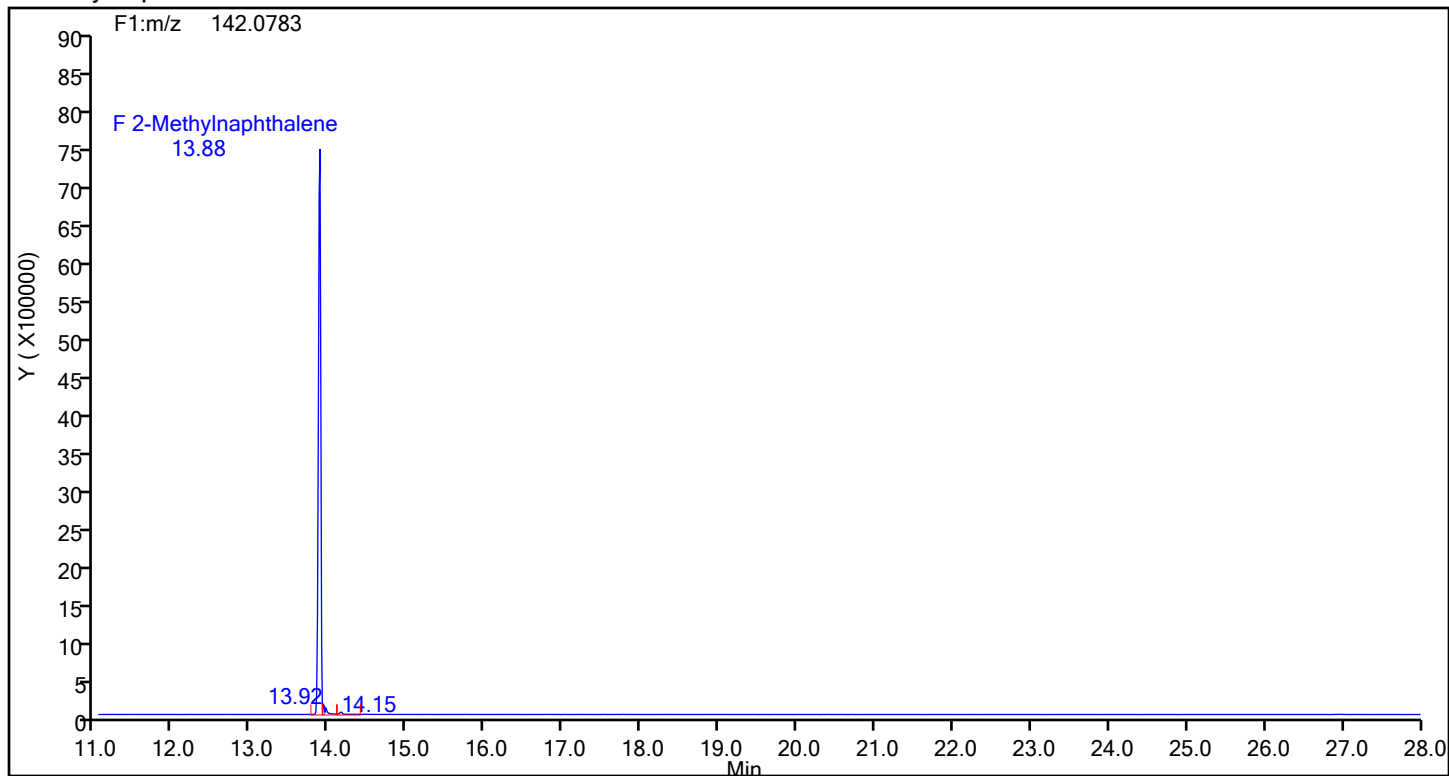
Naphthalene Standards



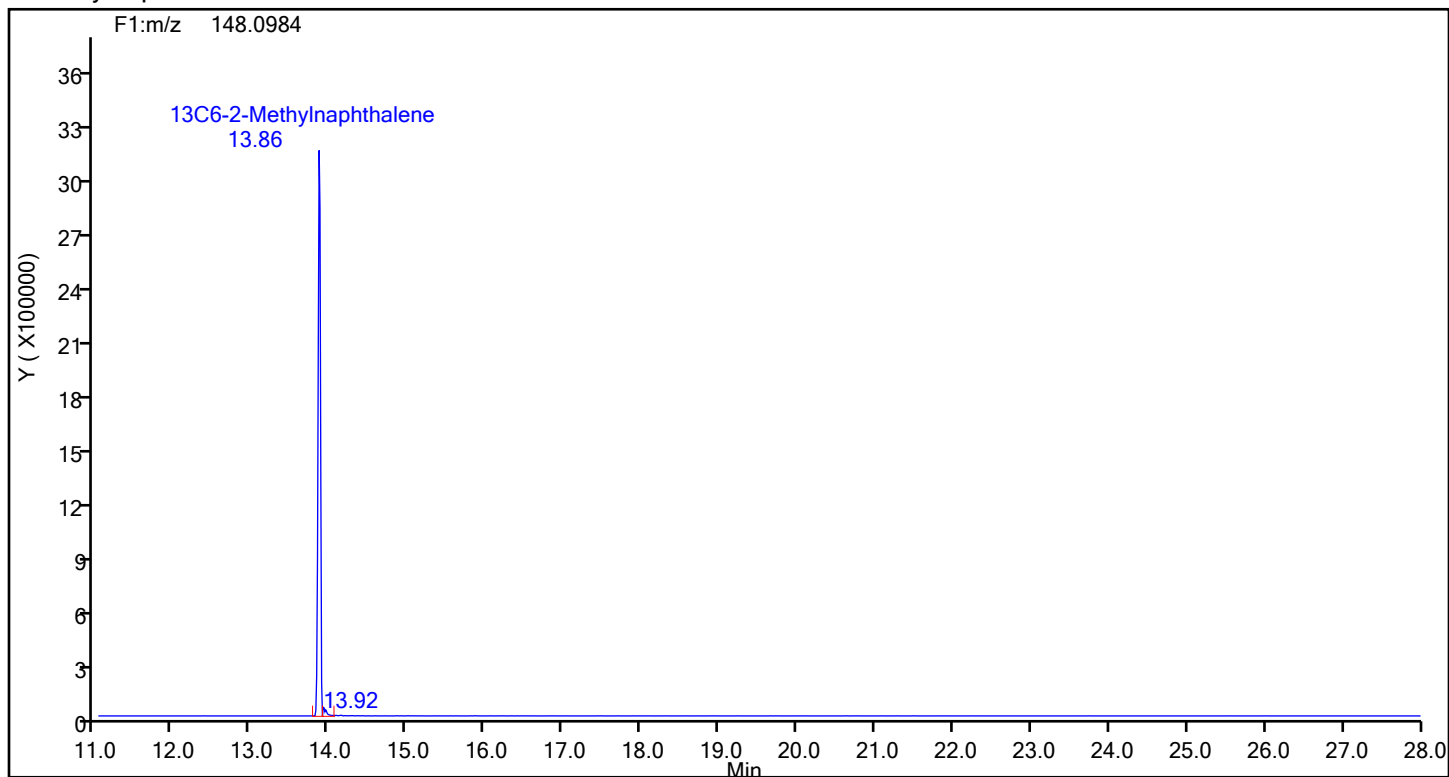
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



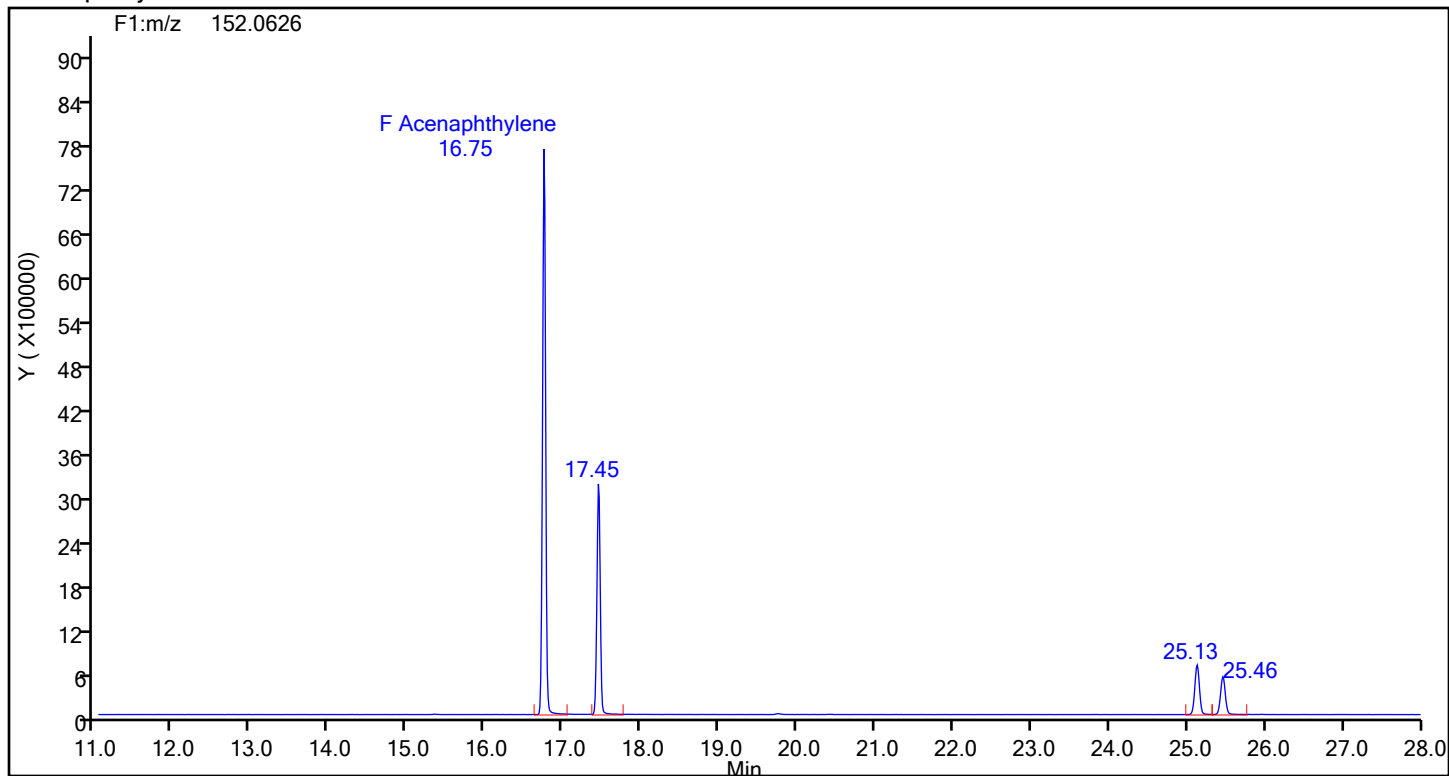
2-Methylnaphthalene Standards



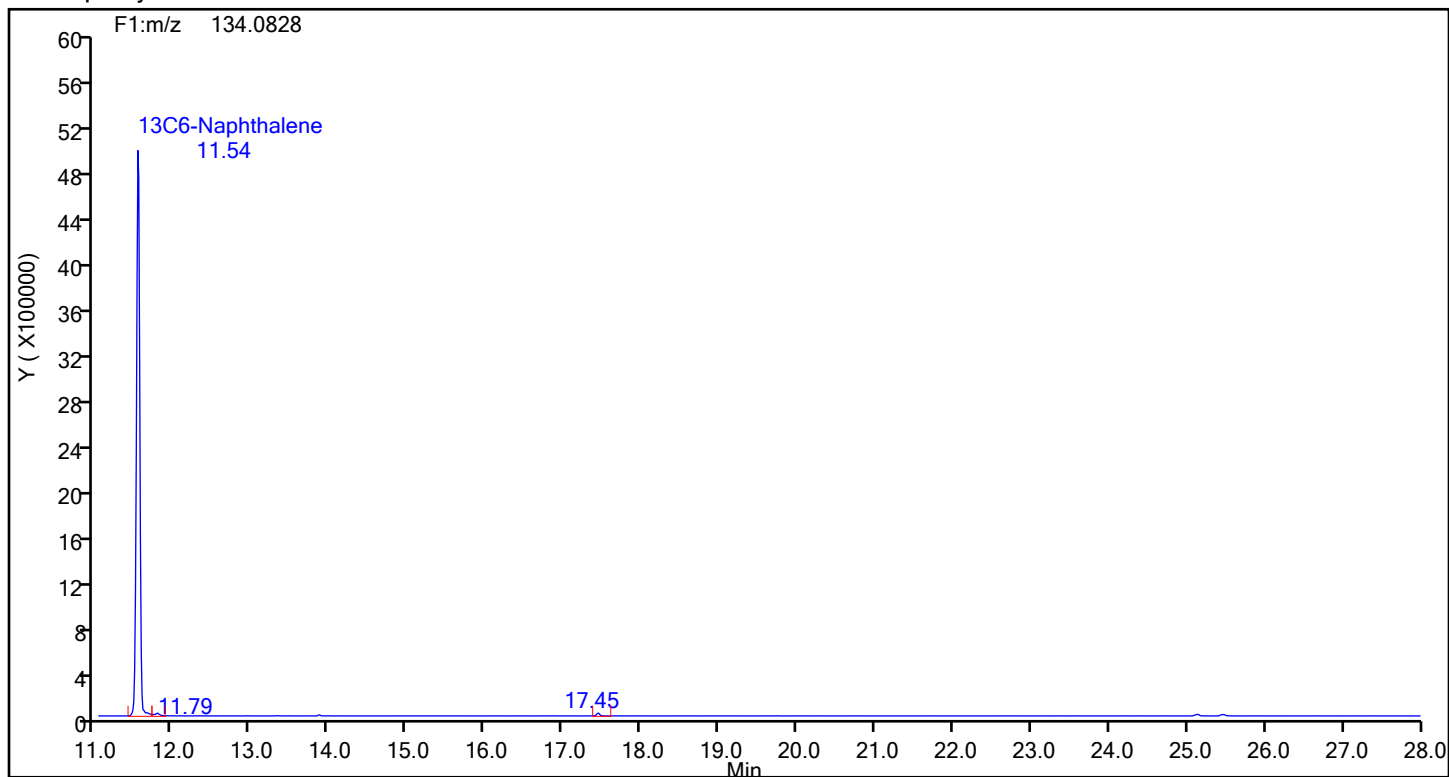
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Acenaphthylene



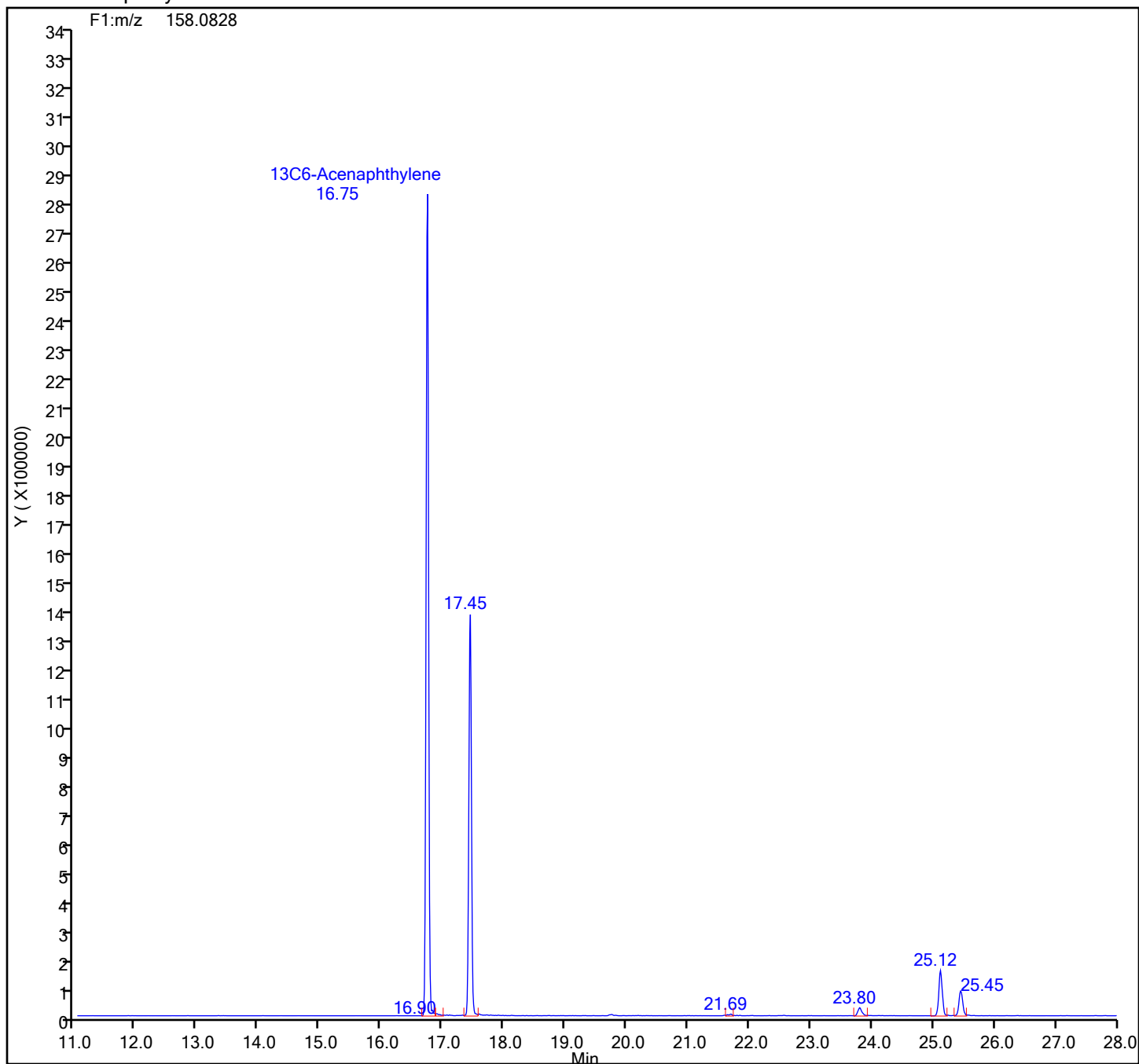
Acenaphthylene Standards



Eurofins Knoxville

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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

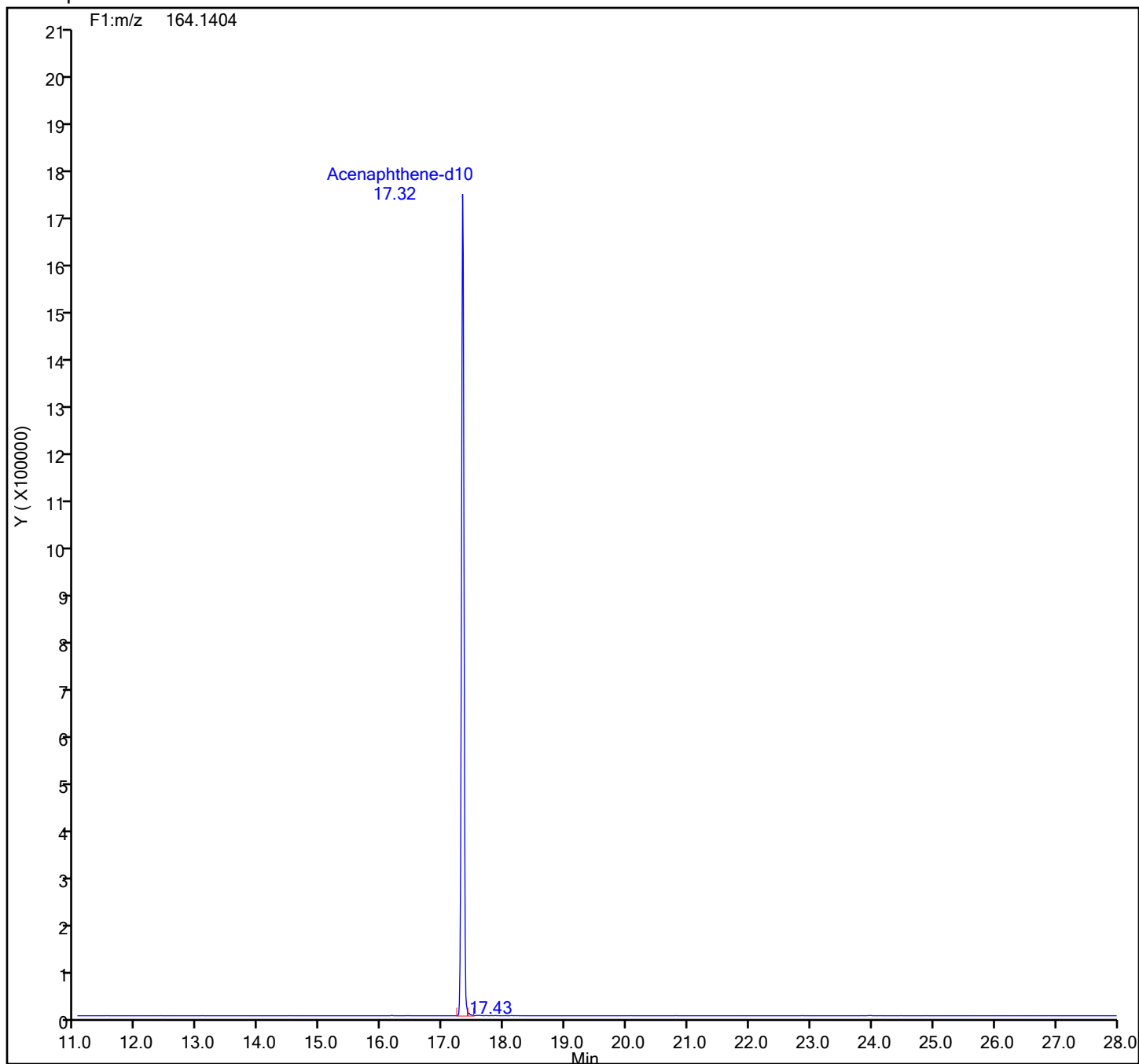
13C6-Acenaphthylene Standards



Eurofins Knoxville

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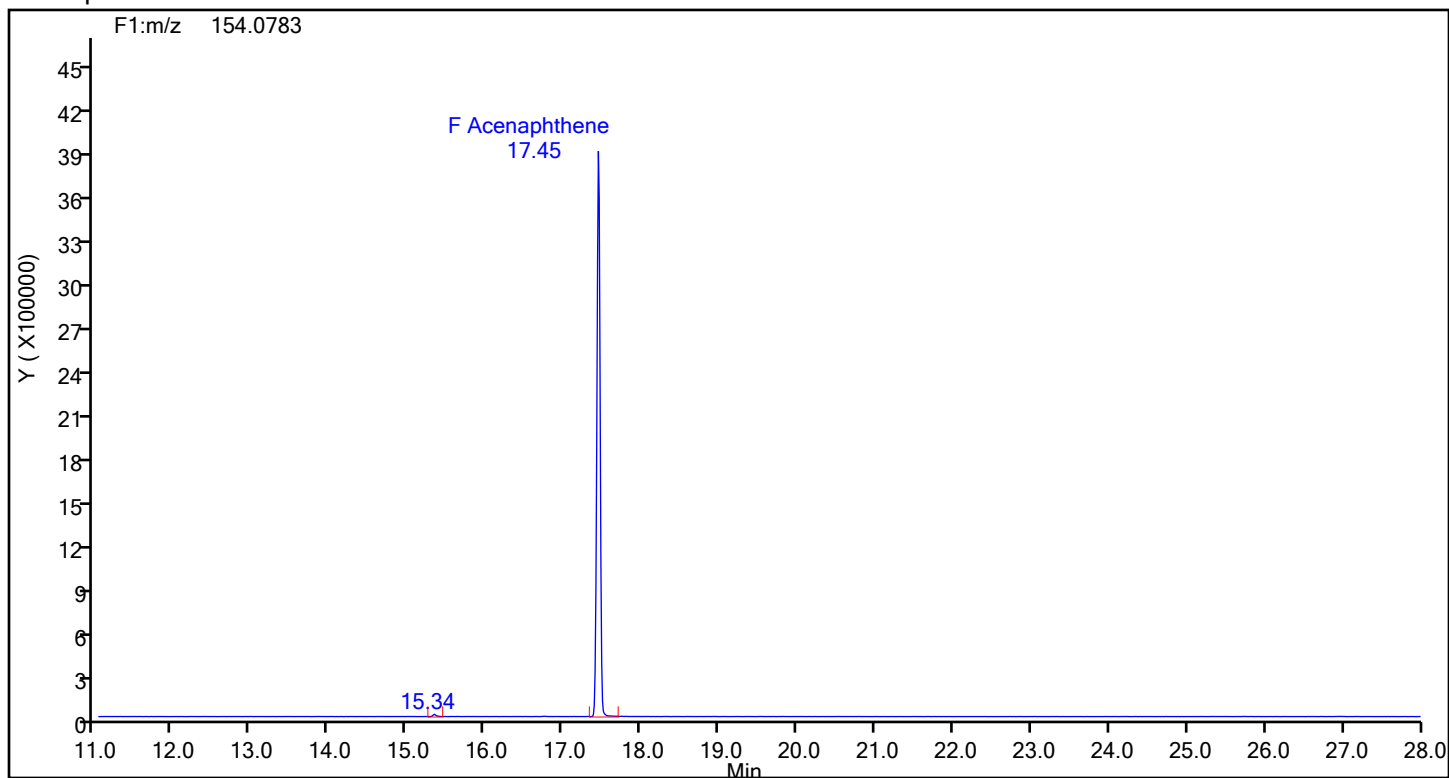
Acenaphthene-d10 Standards



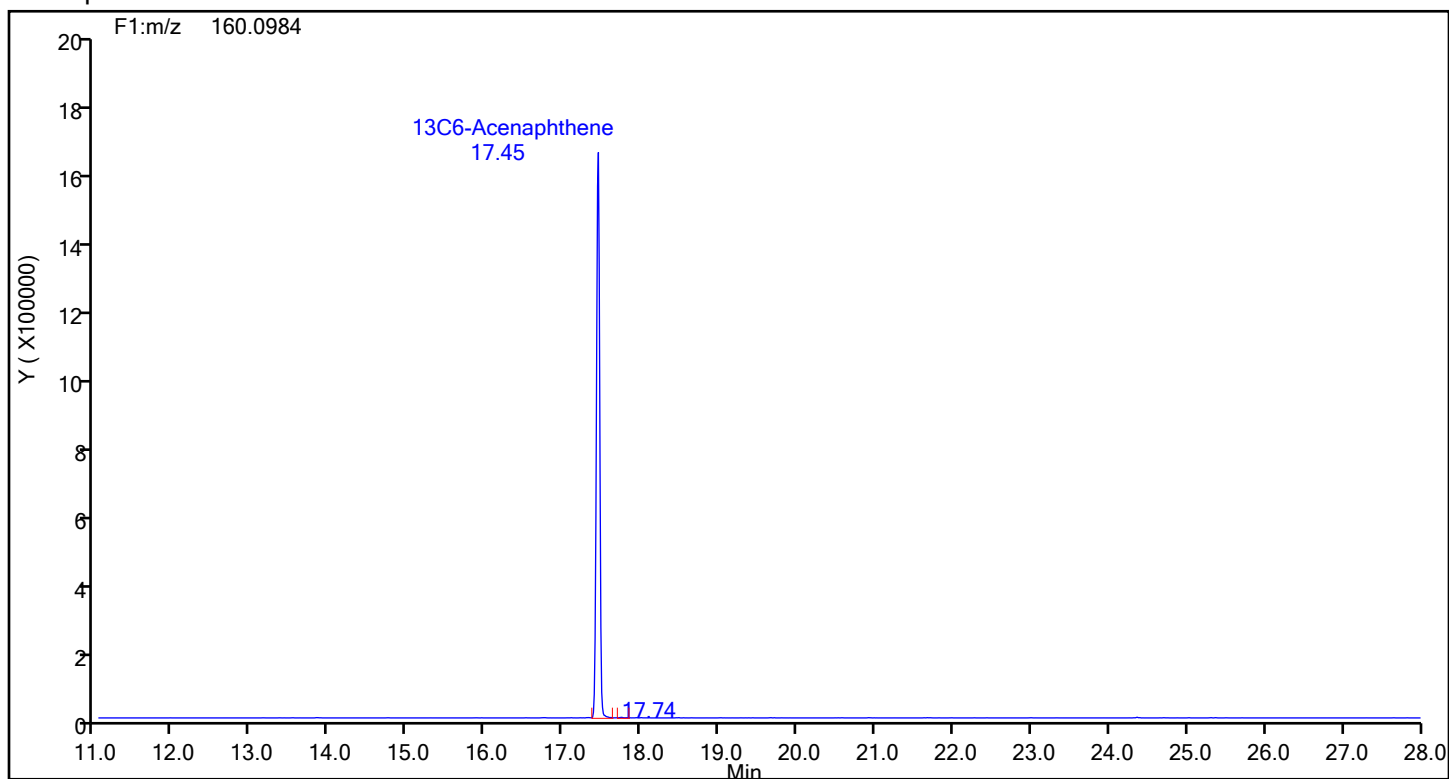
Eurofins Knoxville

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Acenaphthene



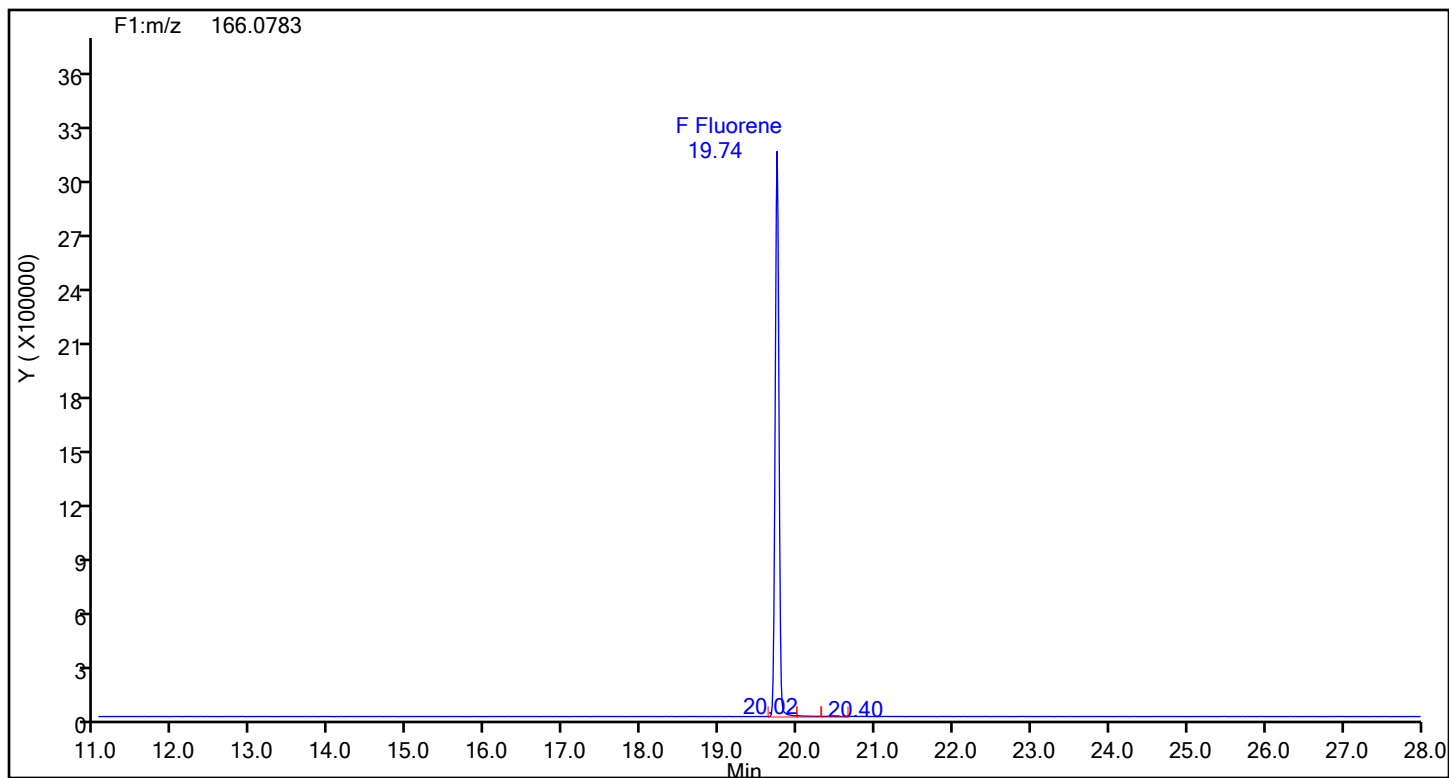
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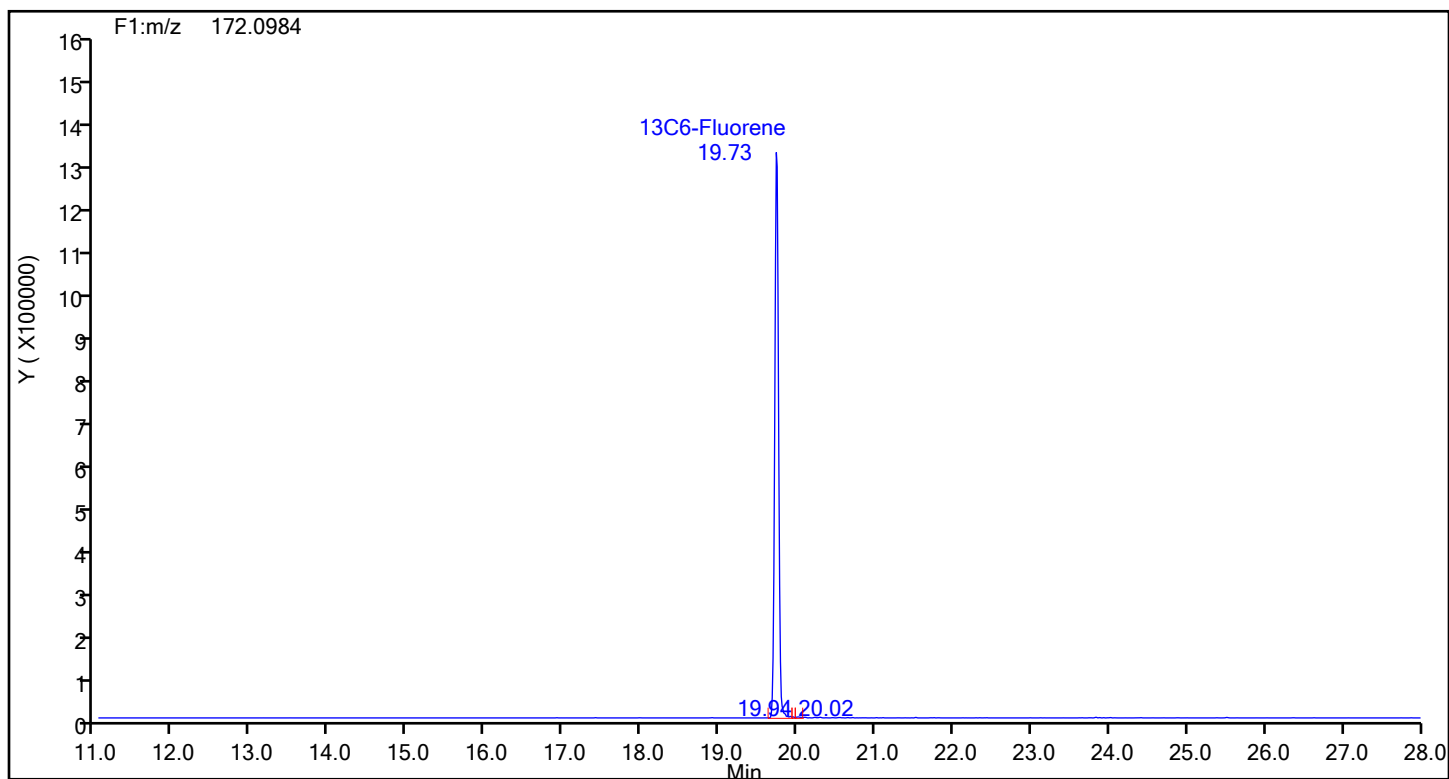
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



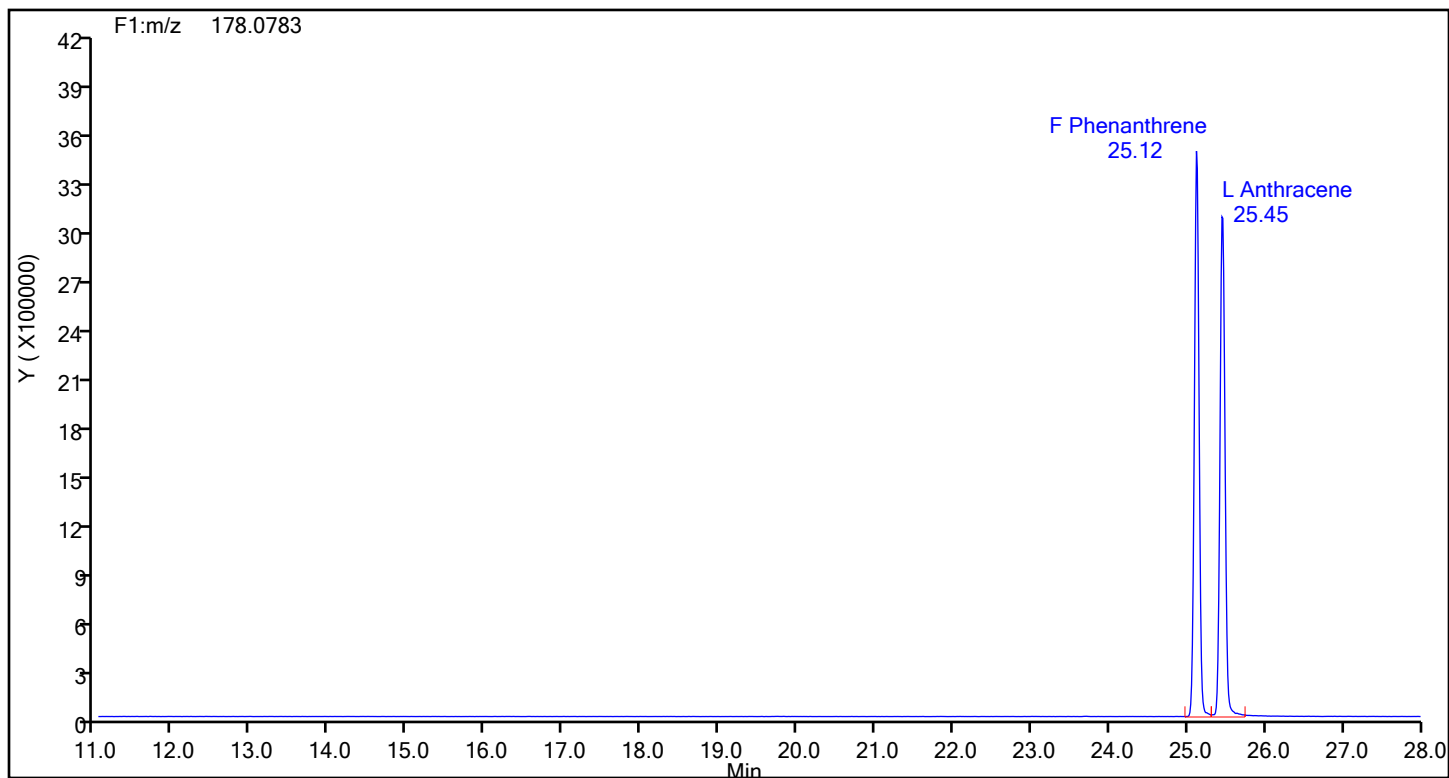
Fluorene Standards



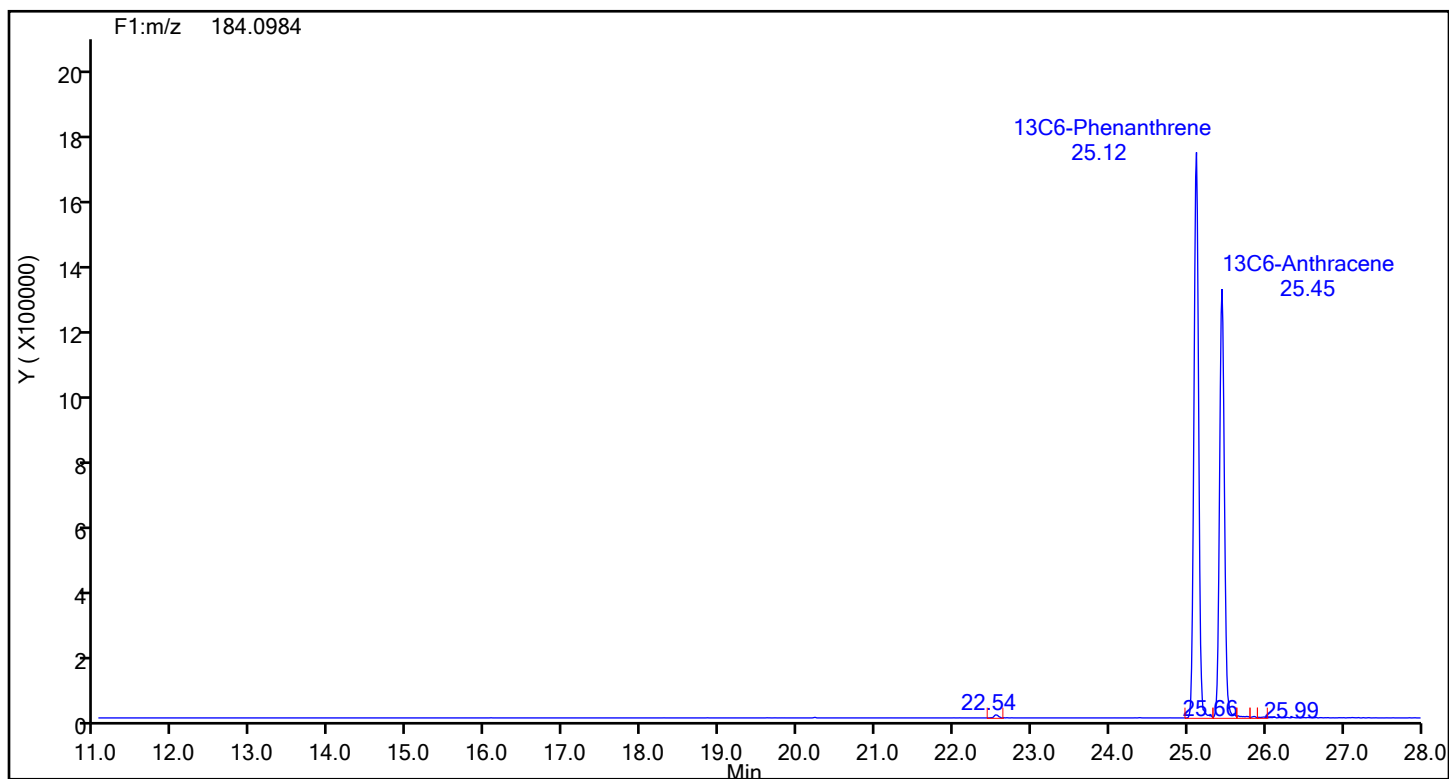
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

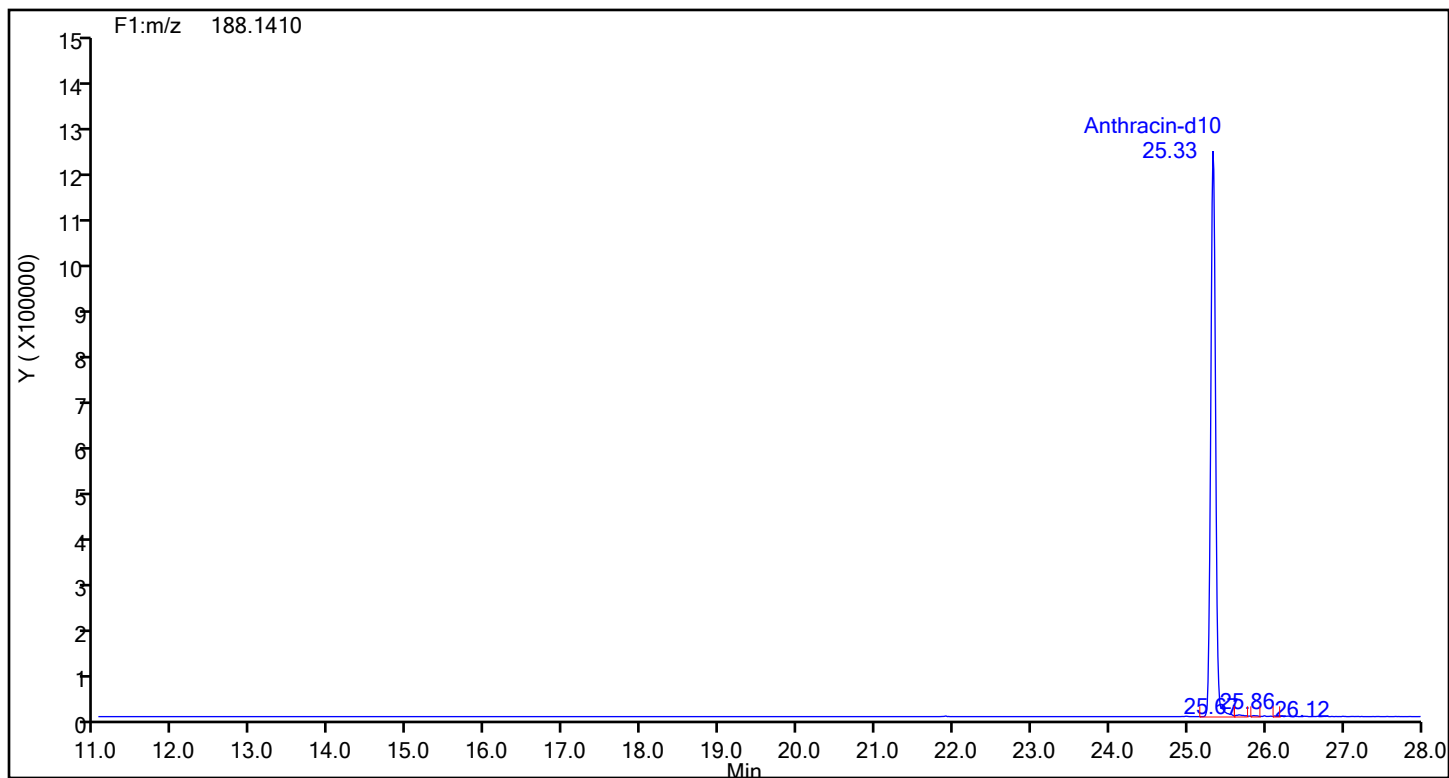


Phenanthrene Standards

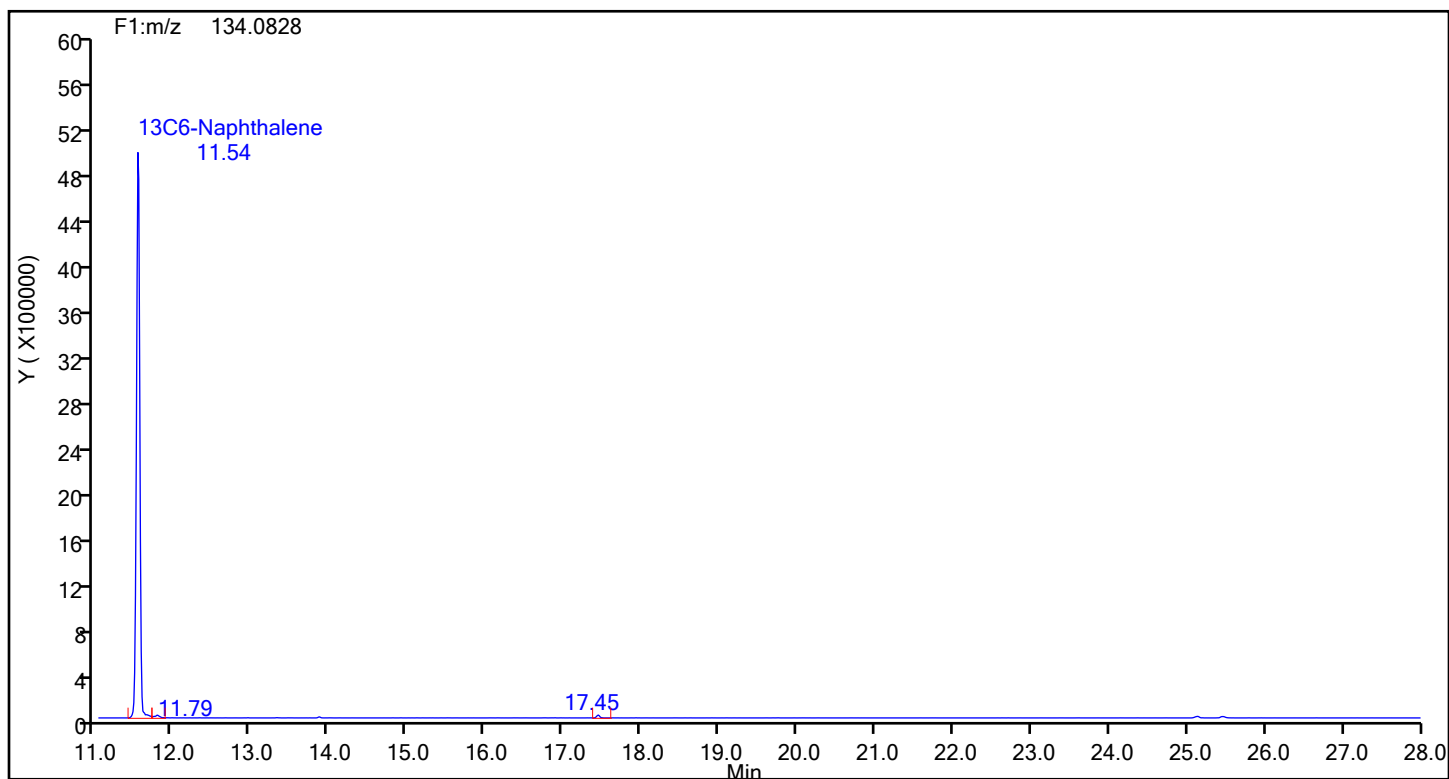


Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Anthracin-d10

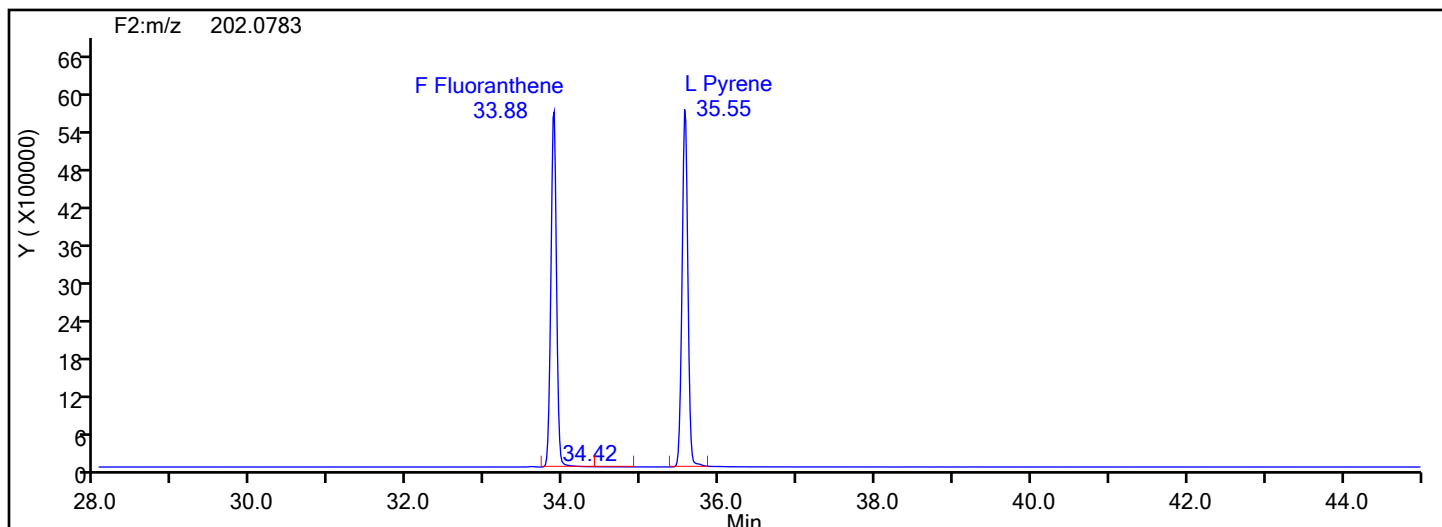


Anthracin-d10 Standards

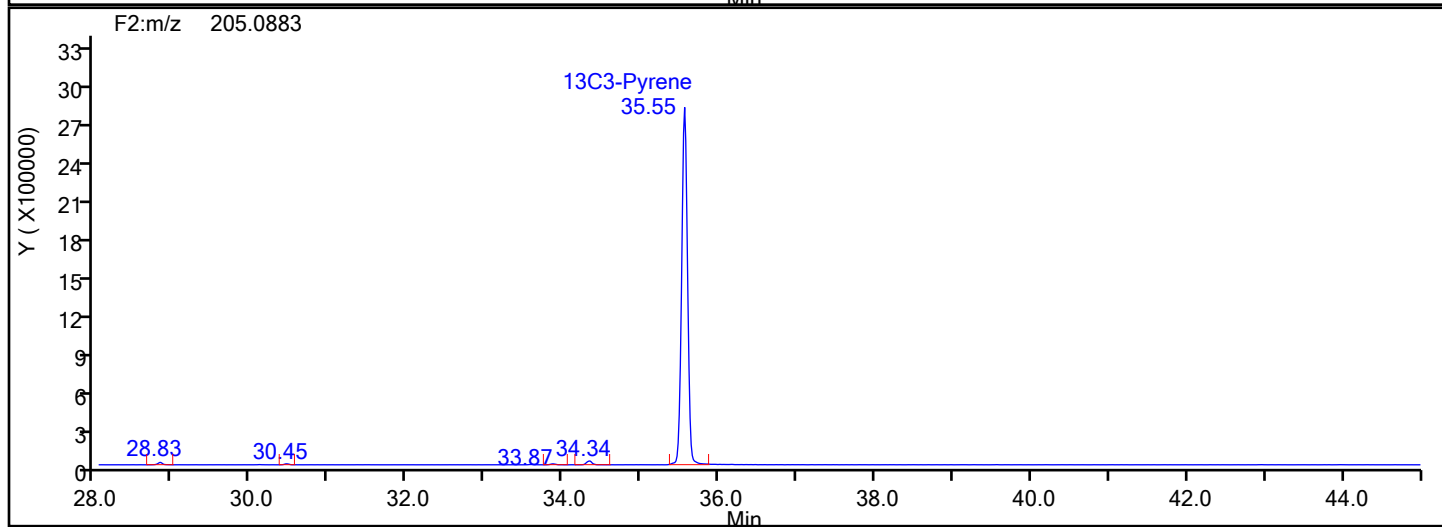
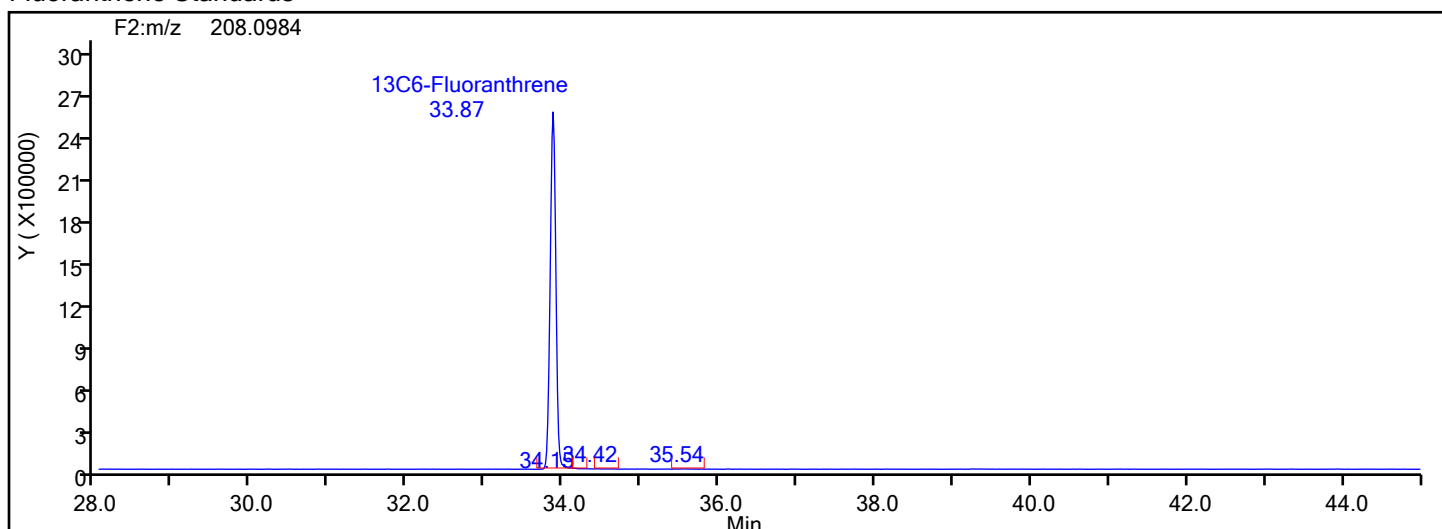


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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



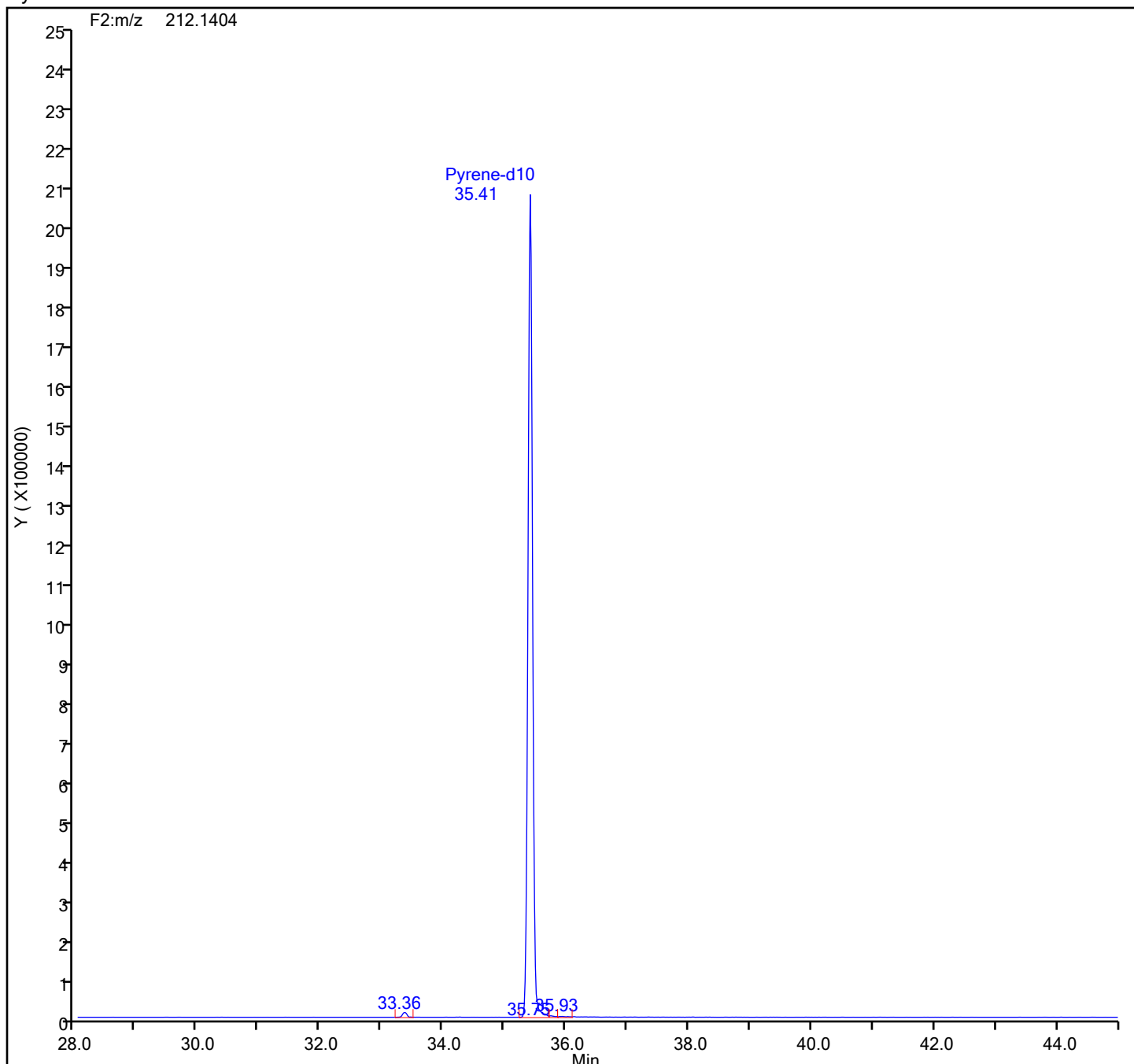
Fluoranthene Standards



Eurofins Knoxville

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Client ID:
Worklist#: 88079 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

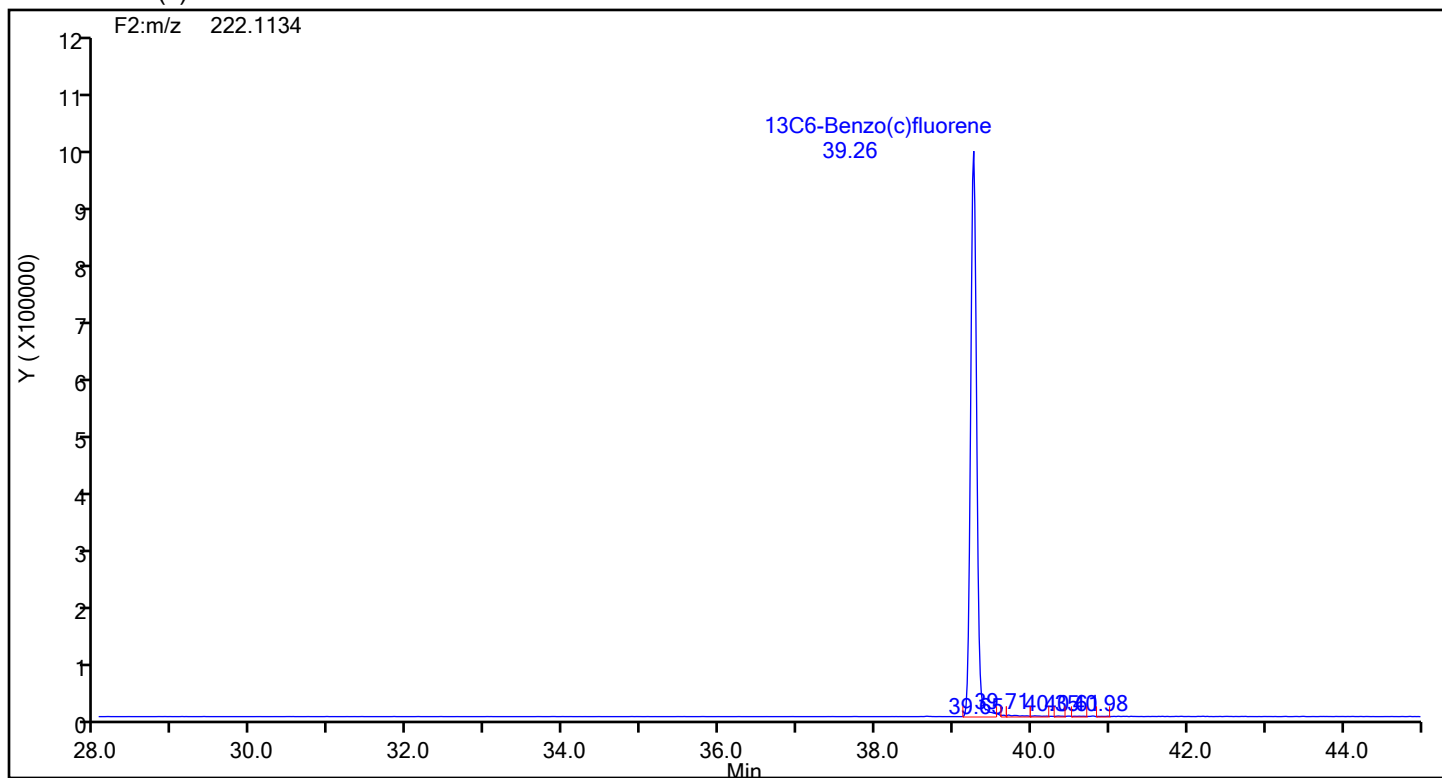
Pyrene-d10 Standards



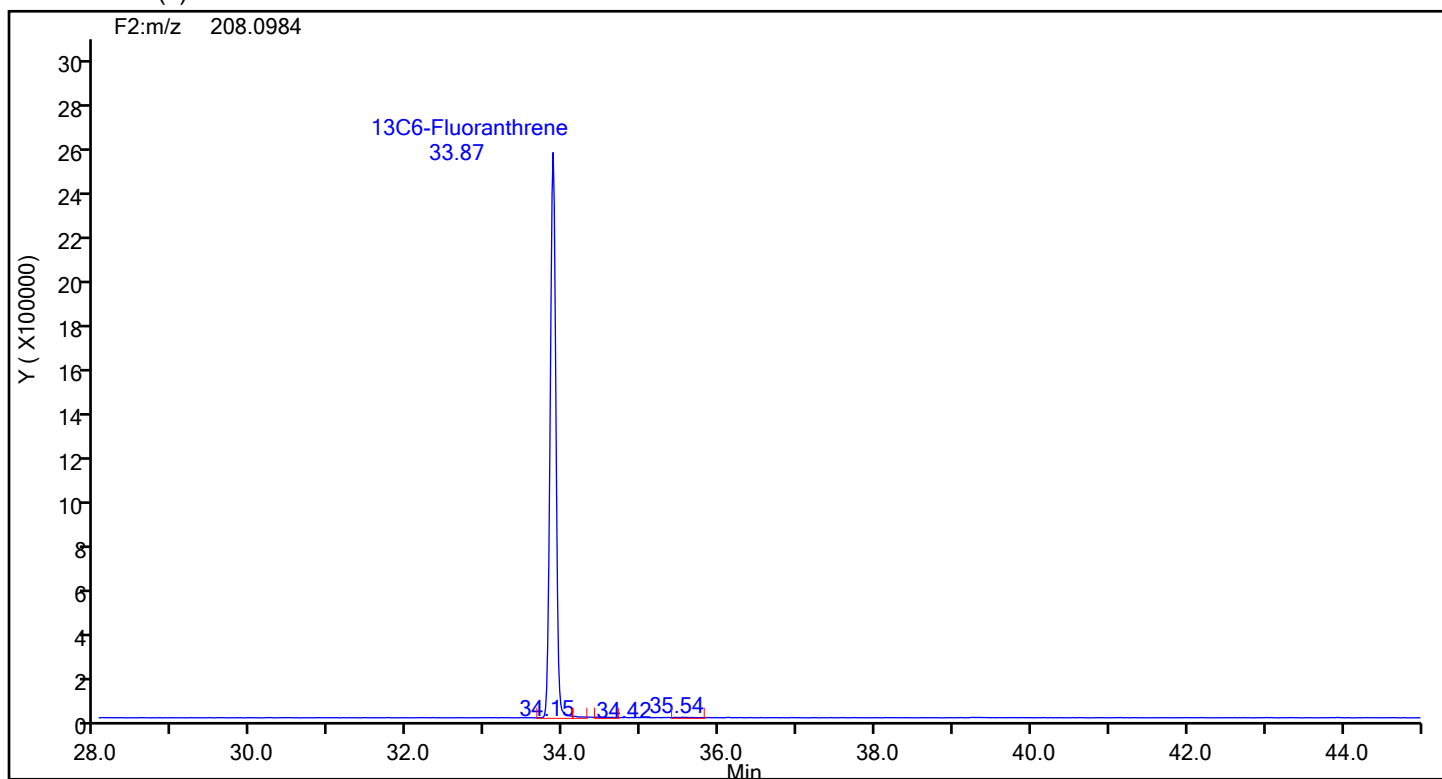
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Worklist#: 88079 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



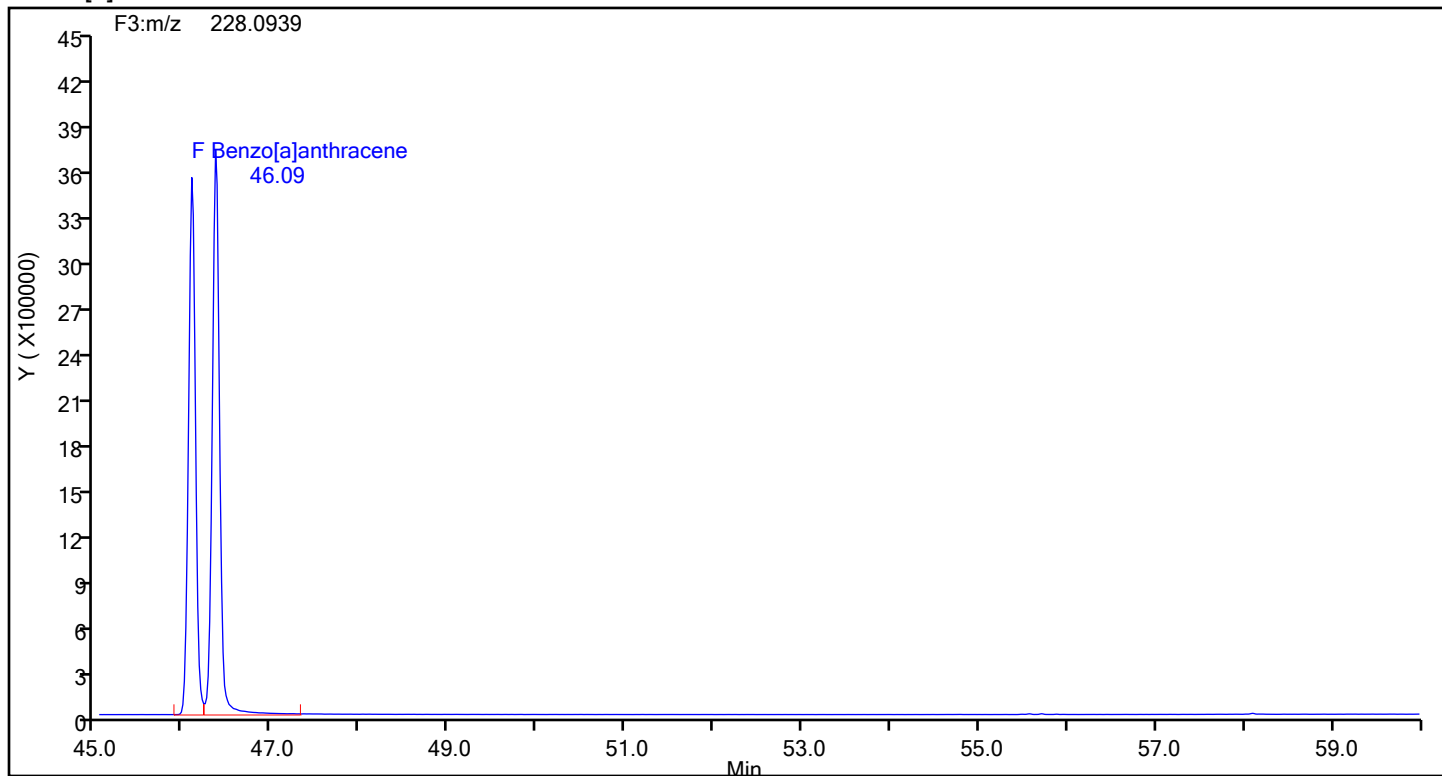
13C6-Benzo(c)fluorene Standards



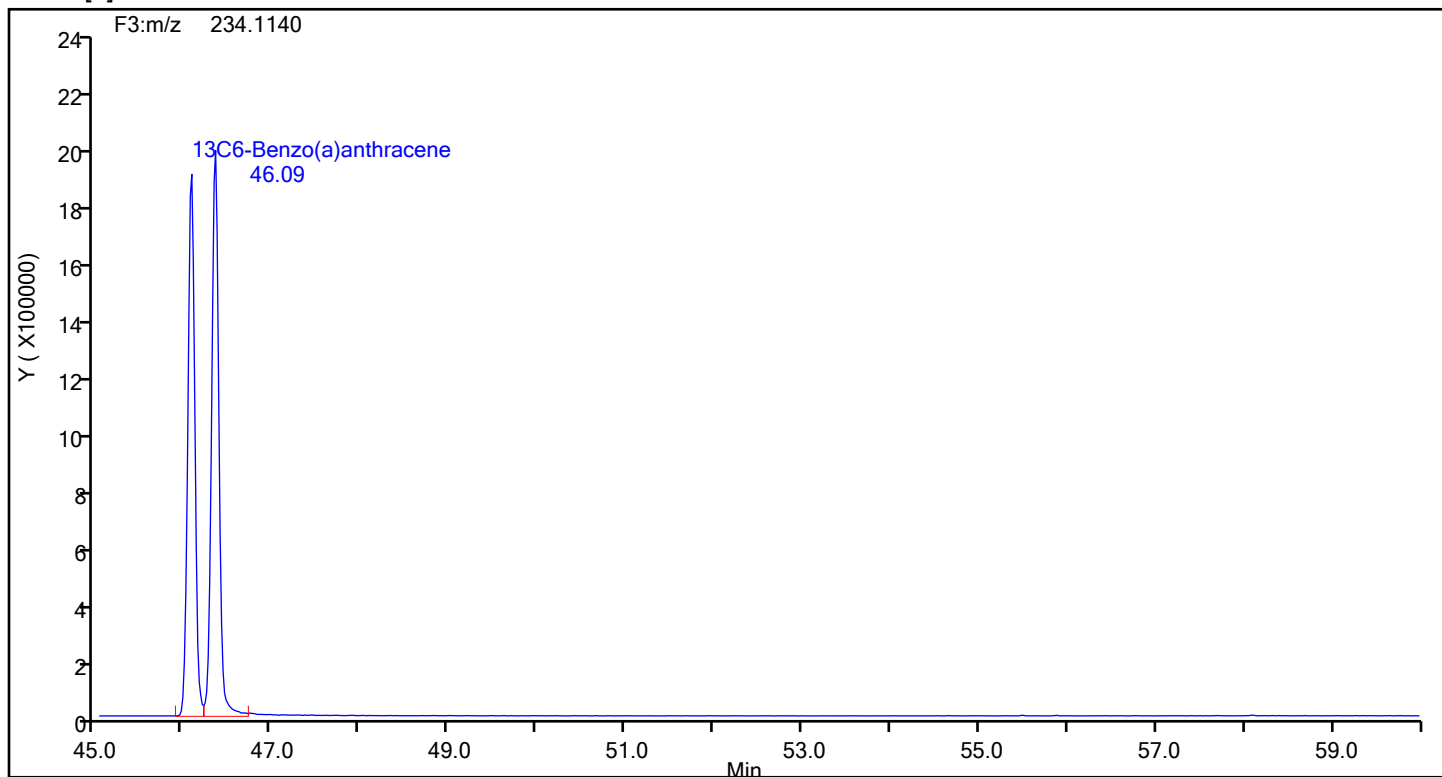
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



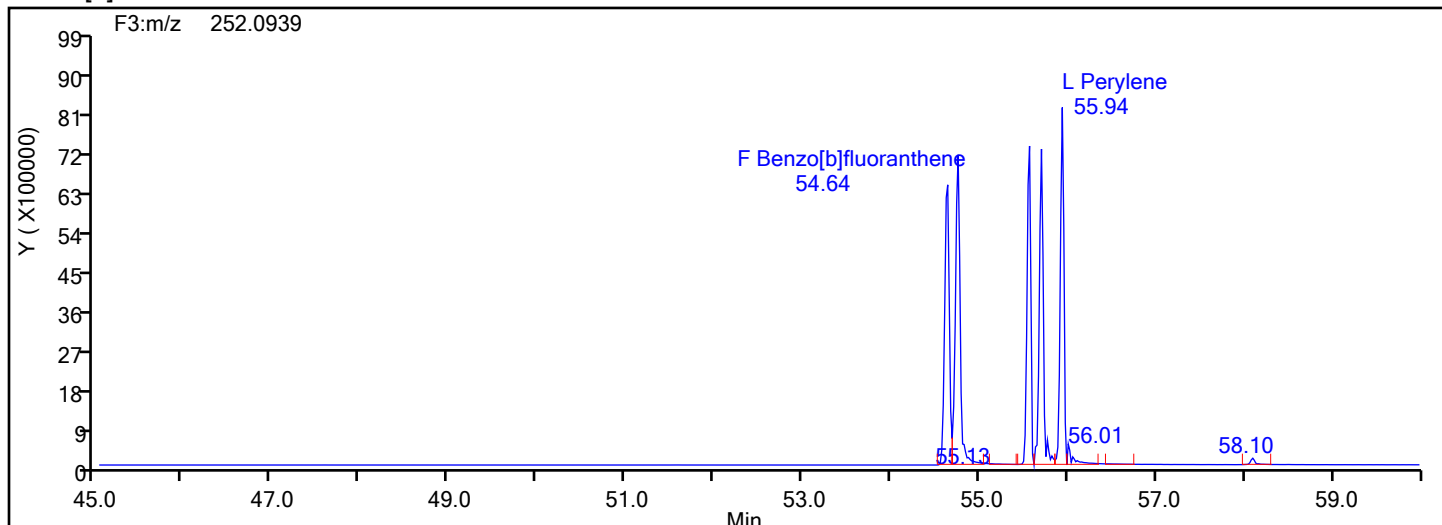
Benzo[a]anthracene Standards



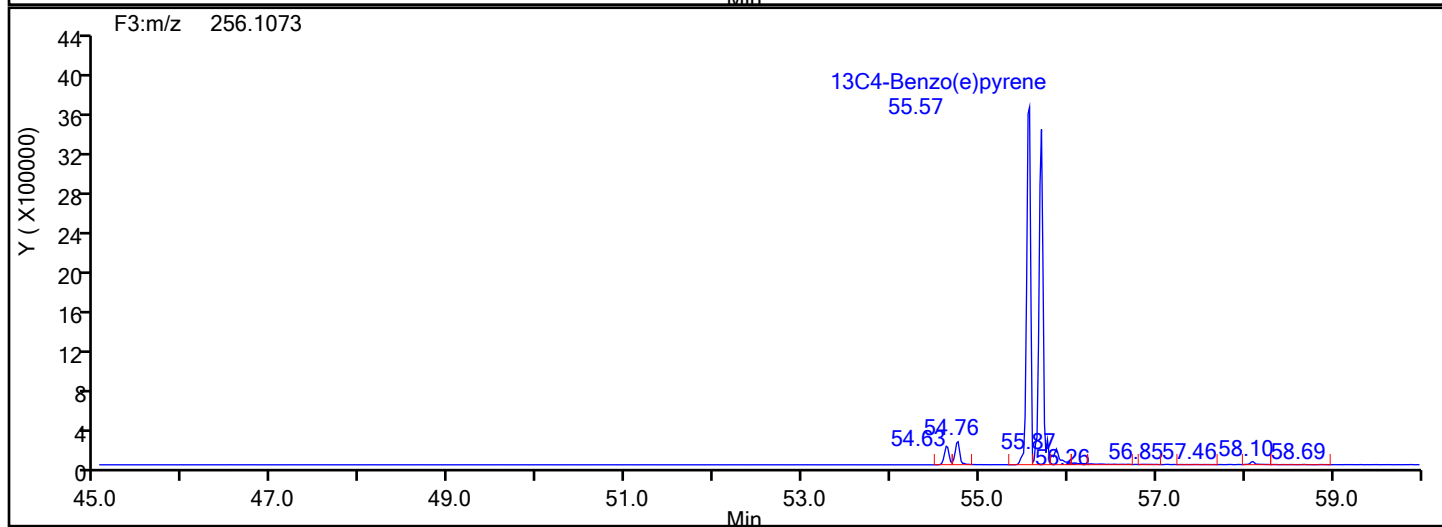
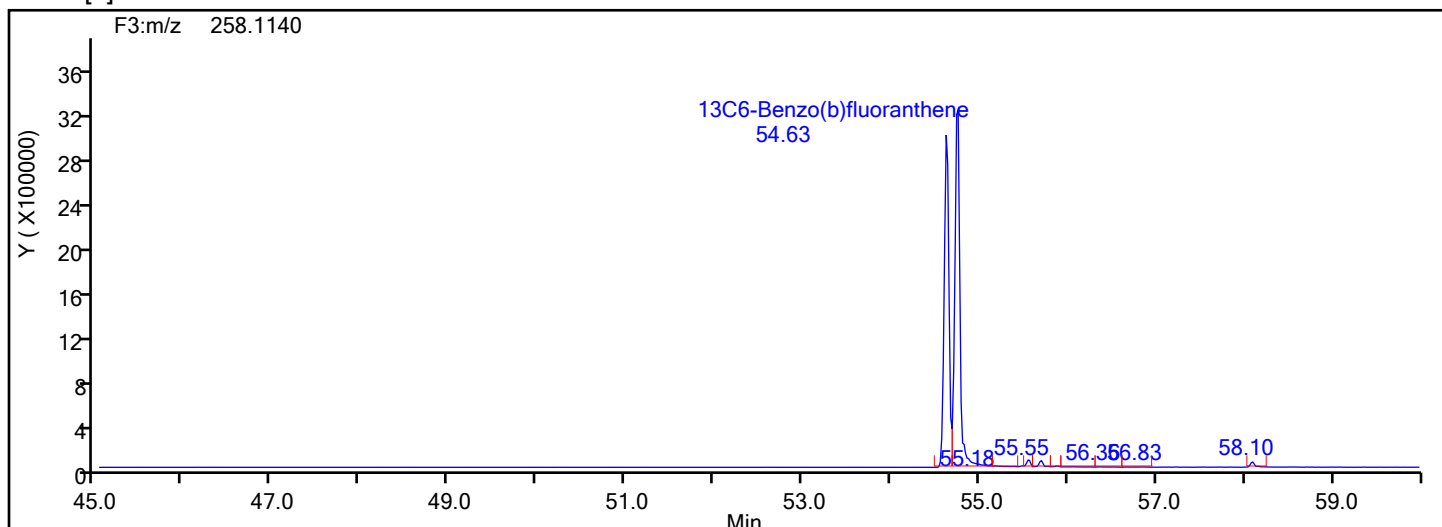
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88079 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



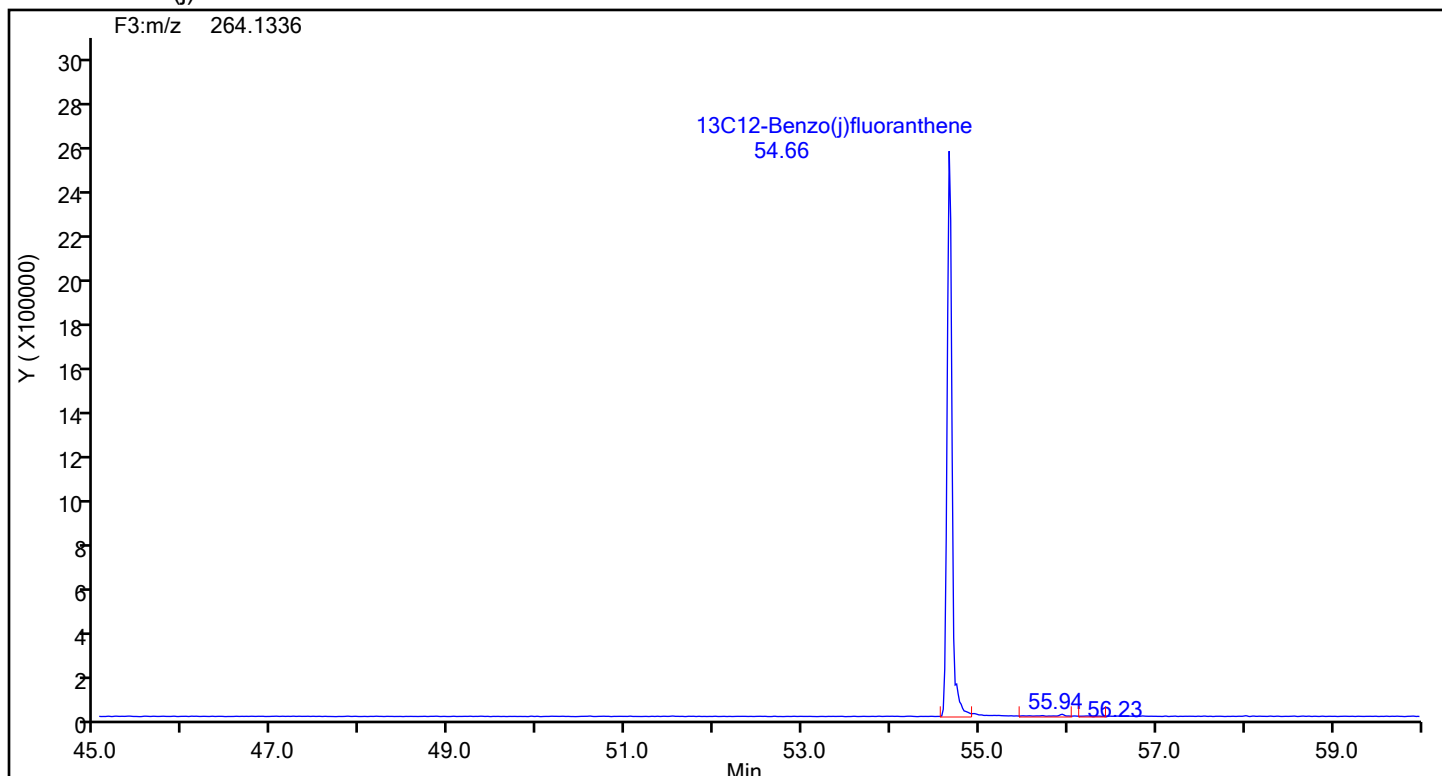
Benzo[b]fluoranthene Standards



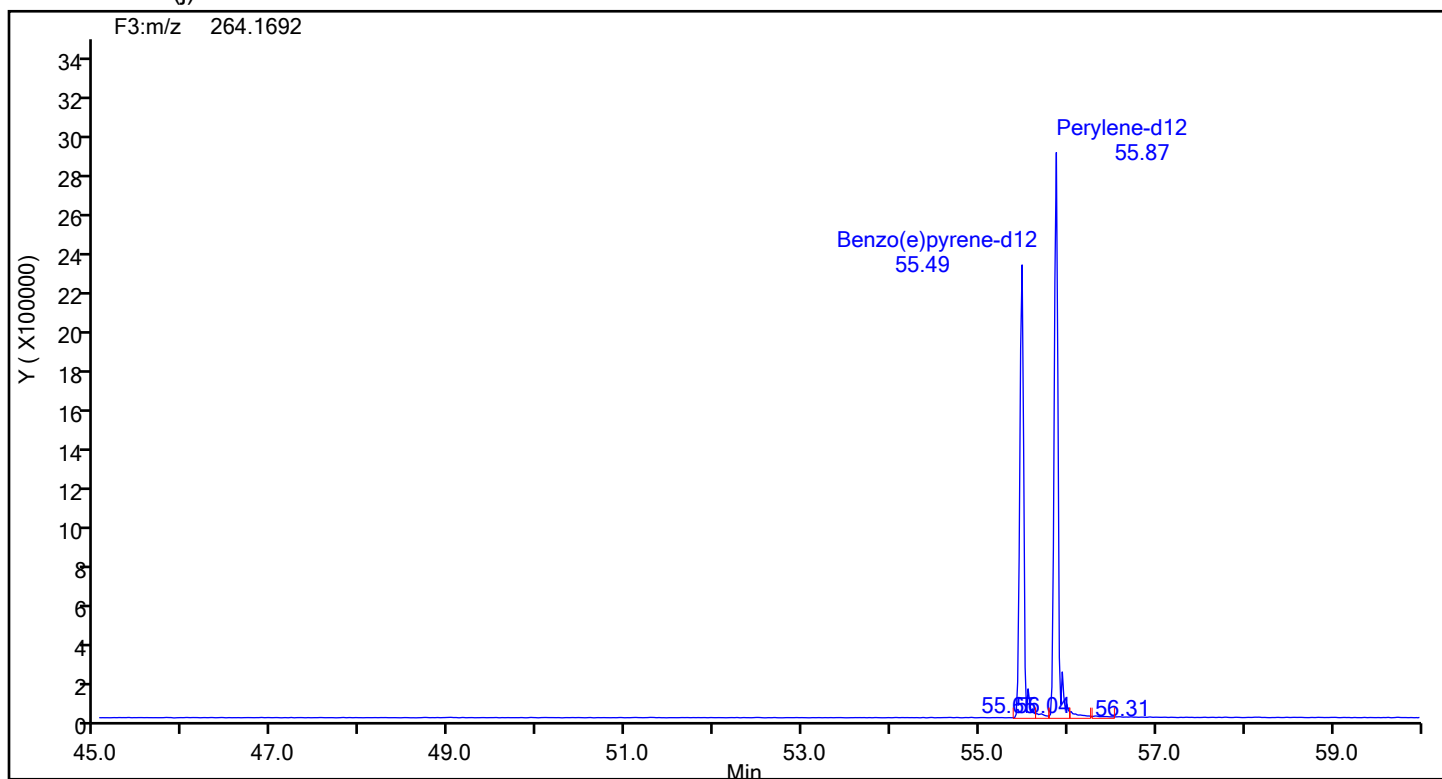
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Worklist#: 88079 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



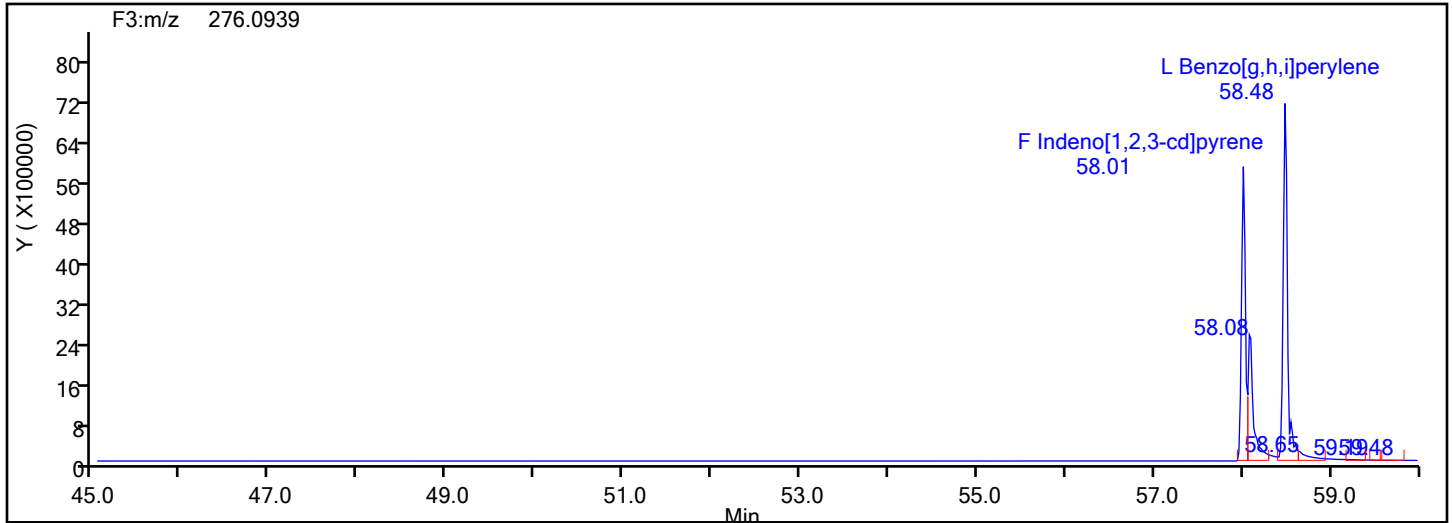
13C12-Benzo(j)fluoranthene Standards



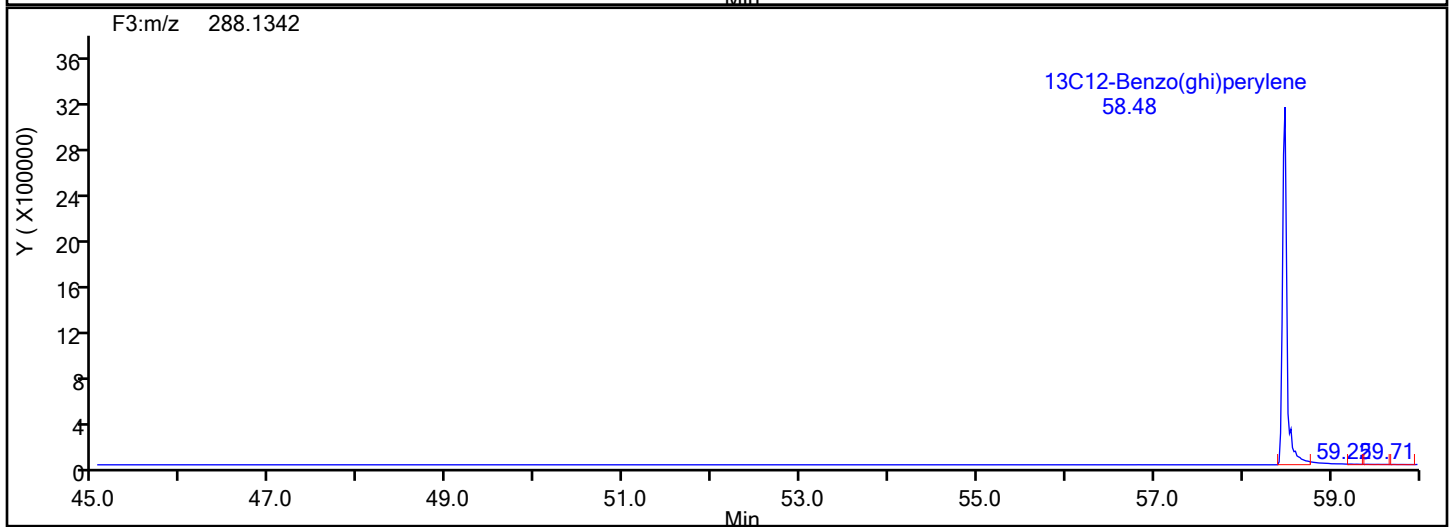
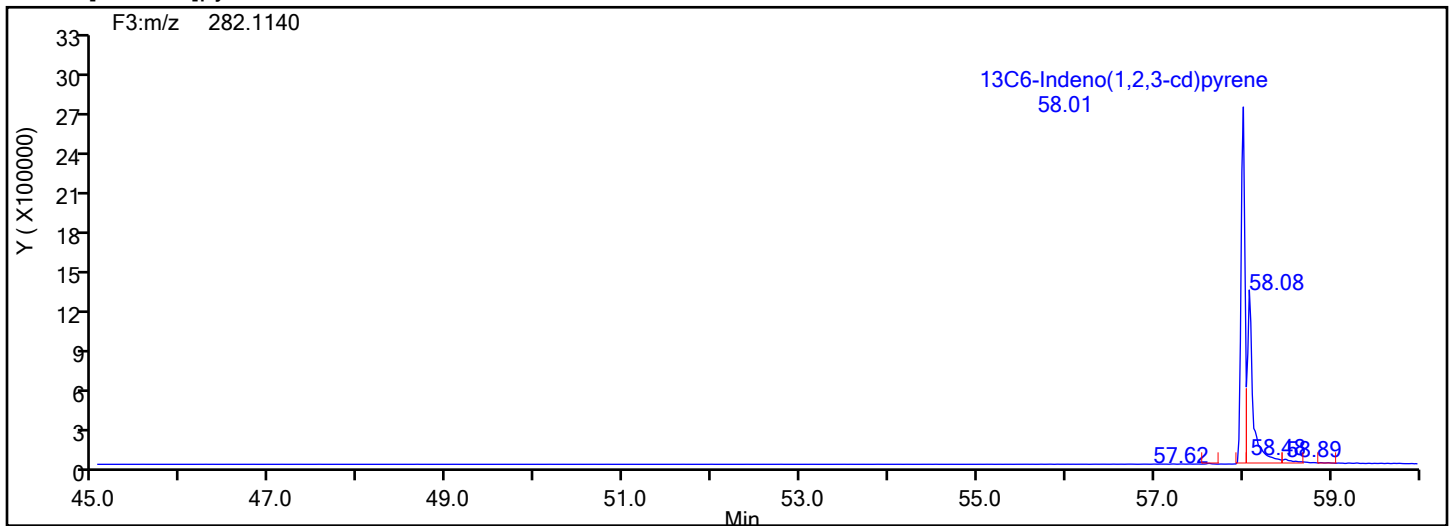
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Client ID:
Worklist#: 88079 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

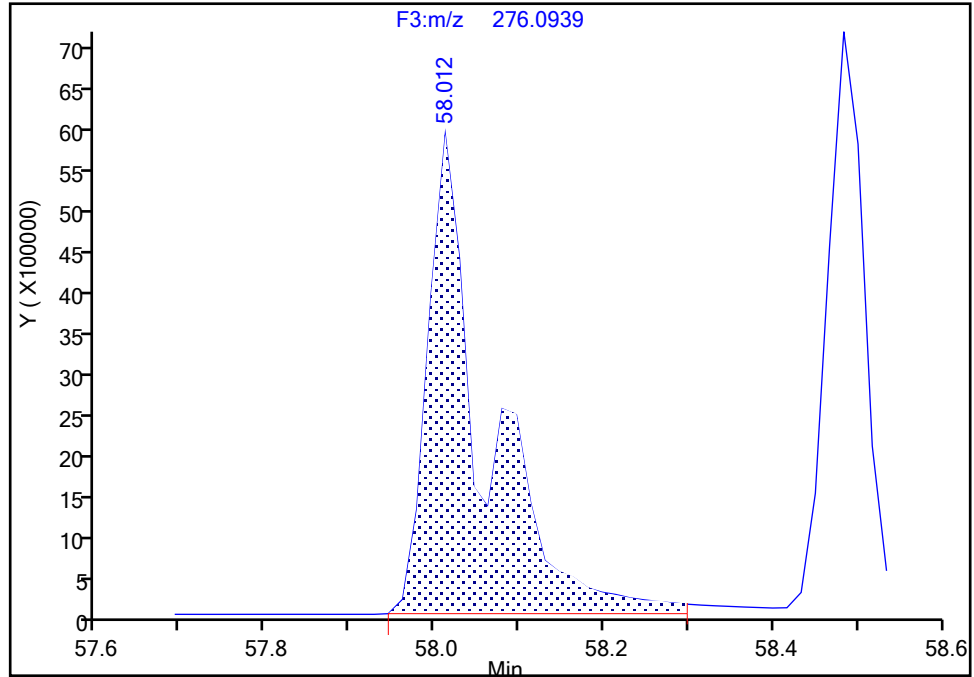
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Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

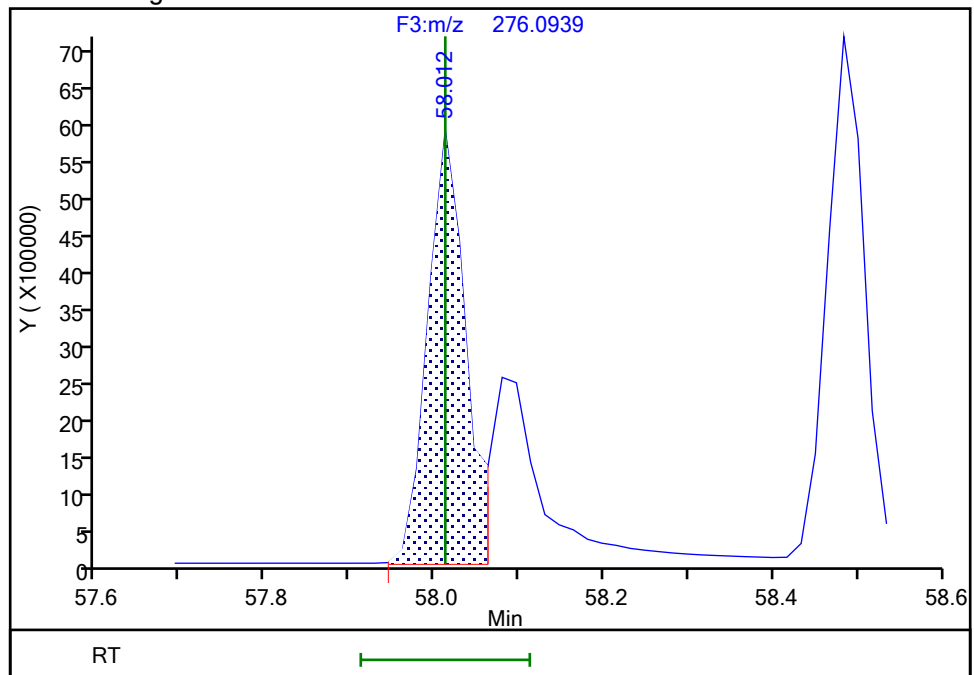
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Amount: 416.8034
Amount Units: pg/ul

Processing Integration Results



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Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 12:14:00 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

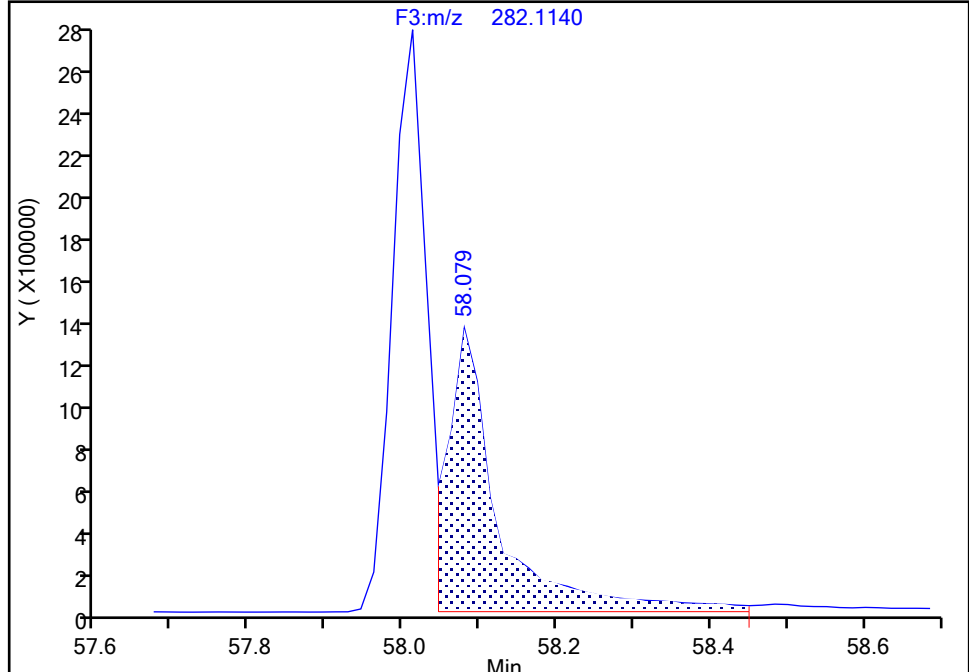
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Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

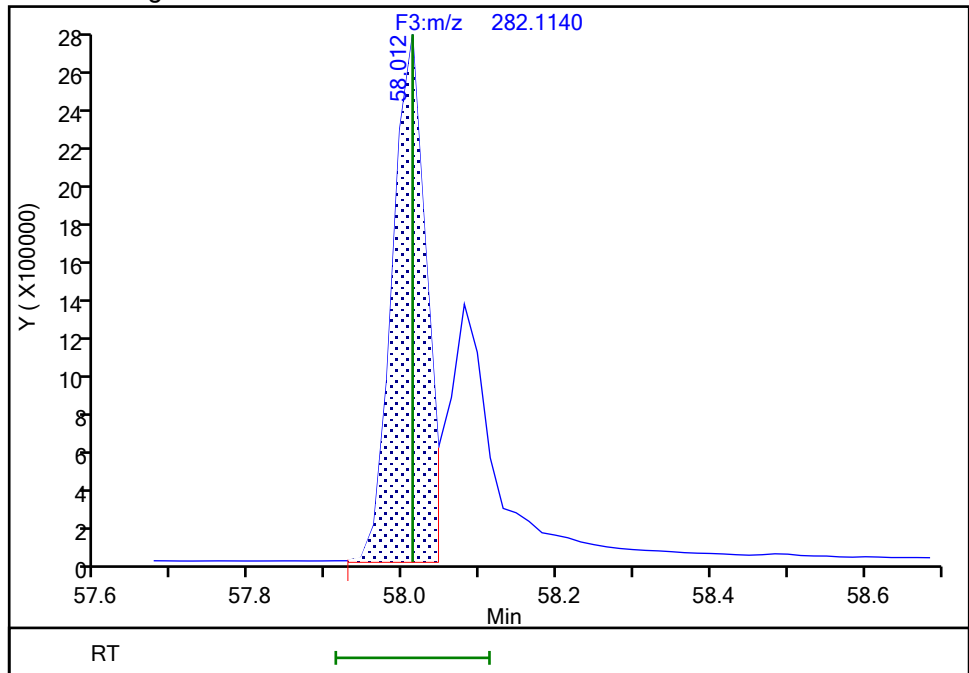
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Processing Integration Results



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Manual Integration Results



Reviewer: F9EE, 25-Jun-2024 12:14:15 -04:00:00 (UTC)

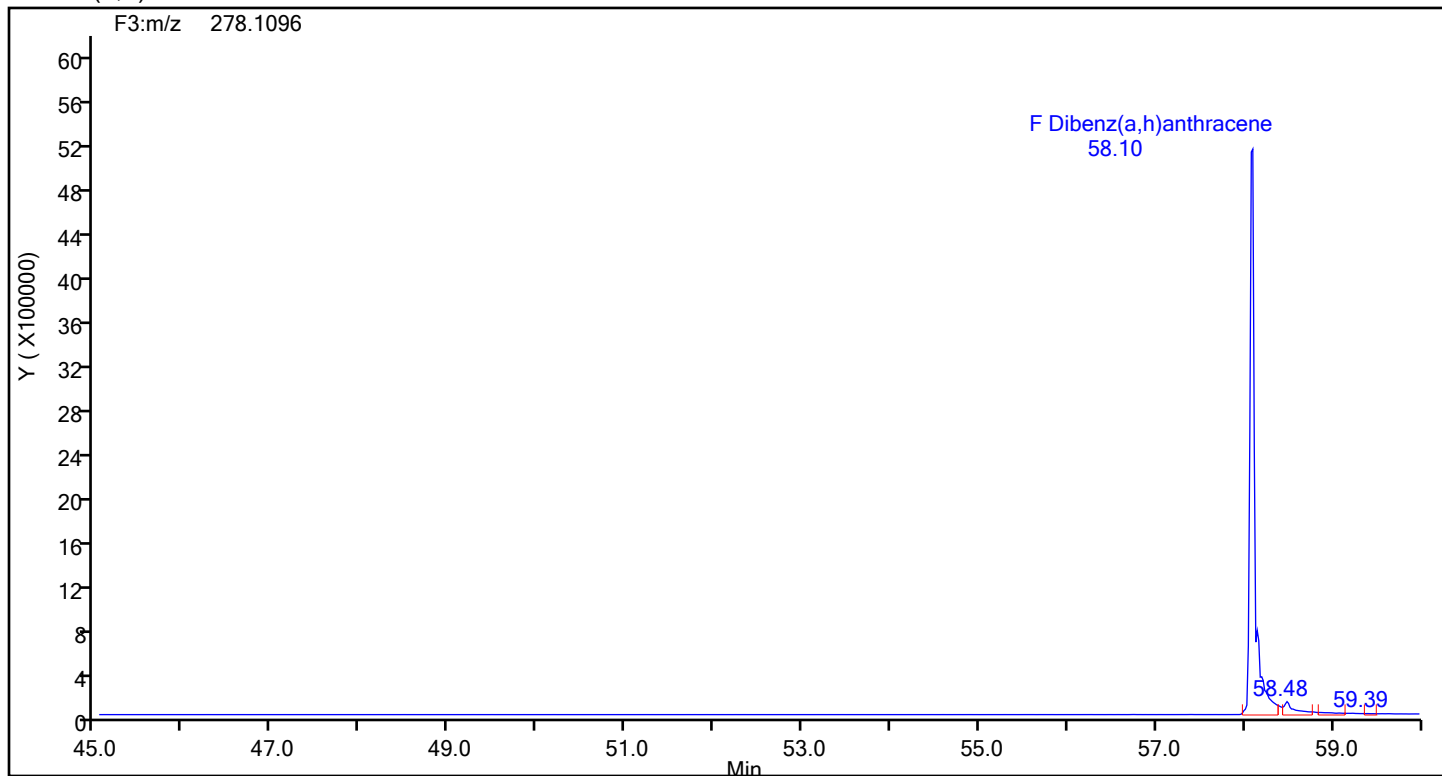
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

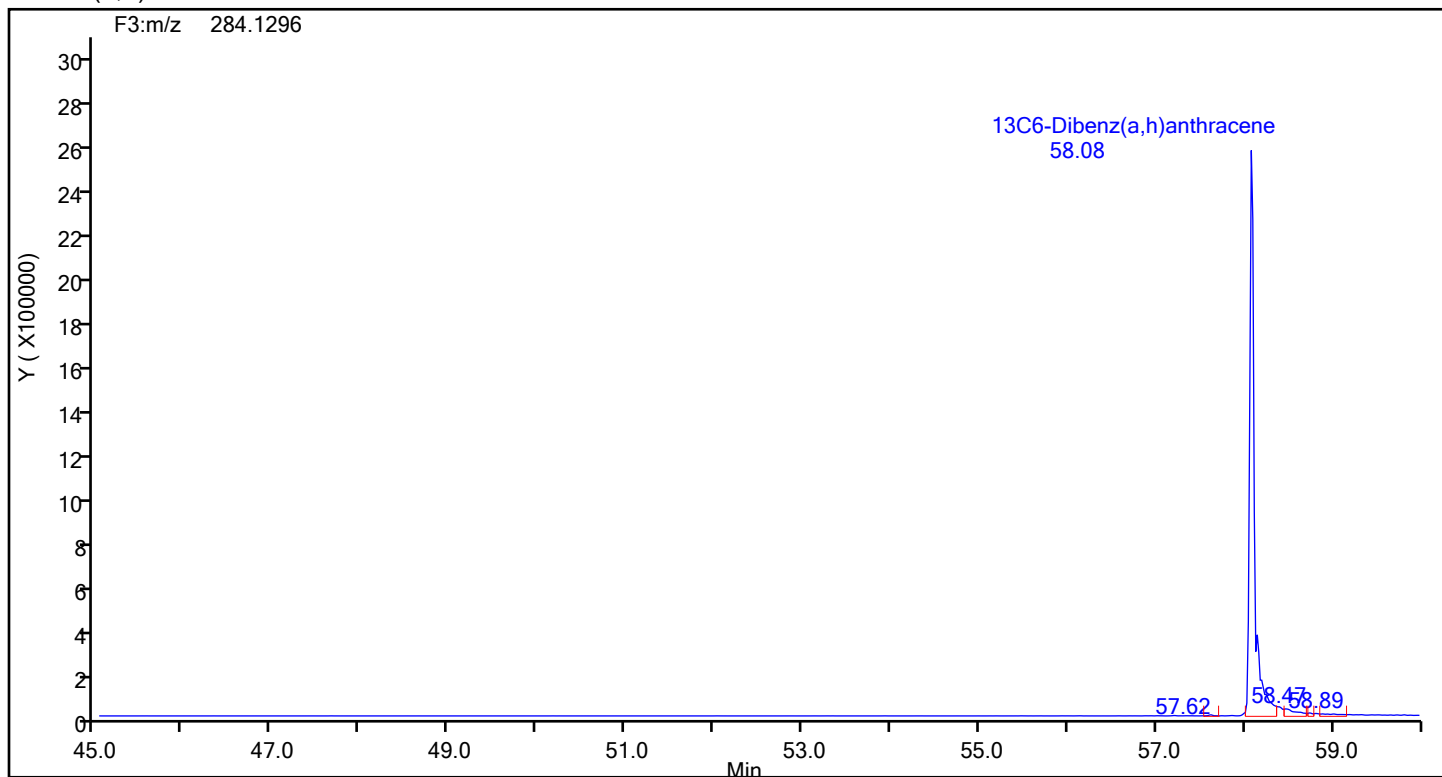
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88079 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 140-87205/17-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>mb140-8720517-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/21/2024 06:10</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87921</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	58.27	J	75.0	75.0	0.0697
91-57-6	2-Methylnaphthalene	40.06	J	75.0	75.0	0.0439
208-96-8	Acenaphthylene	0.5214	J	3.00	3.00	0.0366
83-32-9	Acenaphthene	16.06	J	30.0	30.0	0.0594
86-73-7	Fluorene	12.52	J	30.0	30.0	0.0561
85-01-8	Phenanthrene	16.87		6.00	6.00	0.0694
120-12-7	Anthracene	0.2451	J	30.0	30.0	0.0714
206-44-0	Fluoranthene	3.728	J	6.00	6.00	0.0249
129-00-0	Pyrene	3.792	J	6.00	6.00	0.0247
56-55-3	Benzo[a]anthracene	0.08168	J	6.00	6.00	0.0207
218-01-9	Chrysene	1.145	J	6.00	6.00	0.0199
205-99-2	Benzo[b]fluoranthene	0.2680	J	30.0	30.0	0.00958
207-08-9	Benzo[k]fluoranthene	0.1462	J	6.00	6.00	0.00920
192-97-2	Benzo[e]pyrene	0.7434	J	6.00	6.00	0.00836
50-32-8	Benzo[a]pyrene	0.1809	J	3.00	3.00	0.00894
198-55-0	Perylene	0.2210	J	3.00	3.00	0.00773
193-39-5	Indeno[1,2,3-cd]pyrene	0.1703	J	3.00	3.00	0.00713
53-70-3	Dibenz(a,h)anthracene	0.1031	J	6.00	6.00	0.00571
191-24-2	Benzo[g,h,i]perylene	0.2787	J	6.00	6.00	0.00590

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 140-87205/17-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>mb140-8720517-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/21/2024 06:10</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87921</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	74		20-130
STL03357	13C6-2-Methylnaphthalene	77		20-130
189811-56-1	13C6-Acenaphthylene	89		20-130
189811-57-2	13C6-Acenaphthene	89		20-130
STL00616	13C6-Fluorene	96		20-130
1397194-60-3	13C6-Fluoranthrene	87		20-130
1397214-90-2	13C3-Pyrene	86		20-130
917378-11-1	13C6-Benzo (a) anthracene	72		20-130
1397177-72-8	13C6-Chrysene	72		20-130
STL03358	13C6-Benzo (b) fluoranthene	83		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	81		20-130
STL03382	13C4-Benzo (e) pyrene	81		20-130
STL03359	13C4-Benzo (a) pyrene	81		20-130
1520-96-3	Perylene-d12	85		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	89		20-130
STL03360	13C6-Dibenz (a,h) anthracene	90		20-130
350820-11-0	13C12-Benzo (ghi) perylene	88		20-130
189811-60-7	13C6-Anthracene	100		20-130
1189955-53-0	13C6-Phenanthrene	98		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d
Lims ID: MB 140-87205/17-B
Client ID:
Sample Type: MB
Inject. Date: 21-Jun-2024 06:10:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033201-008
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 25-Jun-2024 02:23:50 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1675

First Level Reviewer: F9EE

Date: 21-Jun-2024 15:18:21

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:29	8293073		3.3746	74.5	74.5	0.009194	0.009194	74.49	
Naphthalene	11:30	4153336		1.2893	38.8	38.8	0.0464	0.0464		
D 13C6-2-Methylnaphthalene	13:50	4078159		1.6031	77.1	77.1	0.004028	0.004028	77.11	
2-Methylnaphthalene	13:50	1392521		1.2786	26.7	26.7	0.0292	0.0292		
D 13C6-Acenaphthylene	16:43	4855612		1.6520	89.1	89.1	0.007969	0.007969	89.09	
Acenaphthylene	16:43	23628		2.3661	0.3476	0.3476	0.0244	0.0244		
* Acenaphthene-d10	17:18	1649578		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:25	2872776		0.9792	88.9	88.9	0.007879	0.007879	88.93	
Acenaphthene	17:25	390497		1.2697	10.7	10.7	0.0396	0.0396		
Fluorene	19:43	294480		1.2532	8.346	8.346	0.0374	0.0374		
D 13C6-Fluorene	19:42	2815573		0.8898	95.9	95.9	0.008010	0.008010	95.91	
D 13C6-Phenanthrene	25:05	4188344		0.5724	98.1	98.1	0.008346	0.008346	98.13	
Phenanthrene	25:06	520366		1.1044	11.2	11.2	0.0463	0.0463		
\$ Anthracin-d10	25:21						0.001173	0.001173		
D 13C6-Anthracene	25:25	3371691		0.4523	100.0	100.0	0.0106	0.0106	99.97	
Anthracene	25:26	7485		1.3586	0.1634	0.1634	0.0476	0.0476		
D 13C6-Fluoranthrene	33:51	7816799		1.1994	87.4	87.4	0.0183	0.0183	87.41	
Fluoranthene	33:51	223685		1.1513	2.485	2.485	0.0166	0.0166		
* Pyrene-d10	35:24	3728063		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:32	8700342		1.3512	86.4	86.4	0.0142	0.0142	86.36	
Pyrene	35:32	234274		1.0652	2.528	2.528	0.0165	0.0165		
\$ 13C6-Benzo(c)fluorene	39:16						0.007914	0.007914		
D 13C6-Benzo(a)anthracene	46:04	8105335		1.5189	71.6	71.6	0.0135	0.0135	71.56	
Benzo[a]anthracene	46:06	4298		0.9739	0.0545	0.0545	0.0138	0.0138		
D 13C6-Chrysene	46:20	8689310		1.6287	71.5	71.5	0.0126	0.0126	71.54	
Chrysene	46:21	65125		0.9815	0.7636	0.7636	0.0133	0.0133		
D 13C6-Benzo(b)fluoranthene	54:37	9049913		1.4621	83.0	83.0	0.002330	0.002330	83.01	
Benzo[b]fluoranthene	54:37	18189		1.1249	0.1787	0.1787	0.006385	0.006385		
\$ 13C12-Benzo(j)fluoranthene	54:40						0.0162	0.0162		U
D 13C6-Benzo(k)fluoranthene	54:44	10541843		1.7507	80.8	80.8	0.001946	0.001946	80.75	
Benzo[k]fluoranthene	54:44	11582		1.1271	0.0975	0.0975	0.006136	0.006136		
* Benzo(e)pyrene-d12	55:29	3728489		5.7E+04	50.0	50.0				
D 13C4-Benzo(e)pyrene	55:33	9913246		1.6368	81.2	81.2	0.0131	0.0131	81.22	
Benzo[e]pyrene	55:33	49192		1.0013	0.4956	0.4956	0.005571	0.005571		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[a]pyrene	55:42	12549		1.1130	0.1206	0.1206	0.005959	0.005959		
D 13C4-Benzo(a)pyrene	55:42	9347544		1.5508	80.8	80.8	0.0138	0.0138	80.83	
D Perylene-d12	55:52	7555768		1.1917	85.0	85.0	0.0181	0.0181	85.03	
Perylene	55:52	15930		1.4307	0.1474	0.1474	0.005155	0.005155		M
D 13C6-Indeno(1,2,3-cd)pyrene	58:00	6755870		1.0218	88.7	88.7	0.009828	0.009828	88.66	
Indeno[1,2,3-cd]pyrene	58:00	8631		1.1249	0.1136	0.1136	0.004756	0.004756		M
D 13C6-Dibenz(a,h)anthracene	58:04	7093861		1.0553	90.1	90.1	0.006373	0.006373	90.15	M
Dibenz(a,h)anthracene	58:05	5518		1.1314	0.0688	0.0688	0.003805	0.003805		M
D 13C12-Benzo(ghi)perylene	58:28	8381074		1.2749	88.2	88.2	0.005552	0.005552	88.16	M
Benzo[g,h,i]perylene	58:28	19991		1.2838	0.1858	0.1858	0.003930	0.003930		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d
Lims ID: MB 140-87205/17-B
Client ID:
Sample Type: MB
Inject. Date: 21-Jun-2024 06:10:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033201-008
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 25-Jun-2024 02:23:50 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1675

First Level Reviewer: F9EE

Date: 21-Jun-2024 15:18:21

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:29	11:38	-4	0.664	8293073	2747581	148	370	18565		
Naphthalene											
128.0626	11:30	11:28	-4	1.001	4153336	1396063	658	1645	2122		
13C6-2-Methylnaphthalene											
148.0984	13:50	13:52	-2	0.800	4078159	1877161	31	77	60554		
2-Methylnaphthalene											
142.0783	13:50	13:52	-2	1.000	1392521	642674	281	702	2287		
13C6-Acenaphthylene											
158.0828	16:43	16:44	-3	0.966	4855612	1645183	63	157	26114		
Acenaphthylene											
152.0626	16:43	16:45	-2	1.000	23628	6711	225	562	30		
Acenaphthene-d10											
164.1404	17:18	17:20	-2		1649578	596287	22	55	27104		
13C6-Acenaphthene											
160.0984	17:25	17:26	-2	1.007	2872776	974498	37	92	26338		
Acenaphthene											
154.0783	17:25	17:27	-2	1.000	390497	140766	196	490	718		
Fluorene											
166.0783	19:43	19:43	-2	1.001	294480	85136	157	392	542		
13C6-Fluorene											
172.0984	19:42	19:43	-2	1.139	2815573	835714	34	85	24580		
13C6-Phenanthrene											
184.0984	25:05	25:15	-2	0.709	4188344	978707	27	67	36248		
Phenanthrene											
178.0783	25:06	25:08	-2	1.000	520366	126603	200	500	633		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10	188.1410	25:19					3	7			
13C6-Anthracene	184.0984	25:25	25:27	-2	0.718	3371691	772845	27	67	28624	
Anthracene	178.0783	25:26	25:28	-2	1.000	7485	1639	200	500	8	
13C6-Fluoranthrene	208.0984	33:51	33:52	-2	0.956	7816799	1490266	123	307	12116	
Fluoranthene	202.0783	33:51	33:52	-2	1.000	223685	42323	114	285	371	
Pyrene-d10	212.1404	35:24	35:26	-2		3728063	701184	33	82	21248	
13C3-Pyrene	205.0883	35:32	35:33	-2	1.004	8700342	1622578	108	270	15024	
Pyrene	202.0783	35:32	35:34	-2	1.000	234274	45027	114	285	395	
13C6-Benzo(c)fluorene	222.1134	39:15					23	57			
13C6-Benzo(a)anthracene	234.1140	46:04	46:05	-2	1.301	8105335	1430607	186	465	7691	
Benzo[a]anthracene	228.0939	46:06	46:05	0	1.001	4298	634	77	192	8	
13C6-Chrysene	234.1140	46:20	46:21	-2	1.309	8689310	1475020	186	465	7930	
Chrysene	228.0939	46:21	46:22	-1	1.000	65125	10415	77	192	135	
13C6-Benzo(b)fluoranthene	258.1140	54:37	54:38	-1	0.985	9049913	2533936	31	77	81740	
Benzo[b]fluoranthene	252.0939	54:37	54:39	-2	1.000	18189	4557	73	182	62	
13C12-Benzo(j)fluoranthene	264.1336	54:39					198	495			U
13C6-Benzo(k)fluoranthene	258.1140	54:44	54:46	-2	0.987	10541843	2631797	31	77	84897	
Benzo[k]fluoranthene	252.0939	54:44	54:46	-2	1.000	11582	3027	73	182	41	
Benzo(e)pyrene-d12	264.1692	55:29	55:30	-1		3728489	1130144	195	487	5796	
13C4-Benzo(e)pyrene	256.1073	55:33	55:34	-1	1.001	9913246	3262881	194	485	16819	
Benzo[e]pyrene	252.0939	55:33	55:35	-2	1.000	49192	15387	73	182	211	
Benzo[a]pyrene	252.0939	55:42	55:43	-1	1.000	12549	3175	73	182	43	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:42	55:43	-1	1.004	9347544	2743848	194	485	14144		
Perylene-d12											
264.1692	55:52	55:53	-1	1.007	7555768	2467706	195	487	12655		
Perylene											
252.0939	55:52	55:53	-5	1.000	15930	4411	73	182	60		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:00	58:01	-1	1.046	6755870	2280172	91	227	25057		
Indeno[1,2,3-cd]pyrene											
276.0939	58:00	58:00	-1	1.000	8631	2504	49	122	51		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:04	58:06	-1	1.047	7093861	1858272	61	152	30463		M
Dibenz(a,h)anthracene											
278.1096	58:05	58:06	-1	1.000	5518	1274	32	80	40		M
13C12-Benzo(ghi)perylene											
288.1342	58:28	58:30	-1	1.054	8381074	2418056	64	160	37782		M
Benzo[g,h,i]perylene											
276.0939	58:28	58:28	-1	1.000	19991	5674	49	122	116		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d

Injection Date: 21-Jun-2024 06:10:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

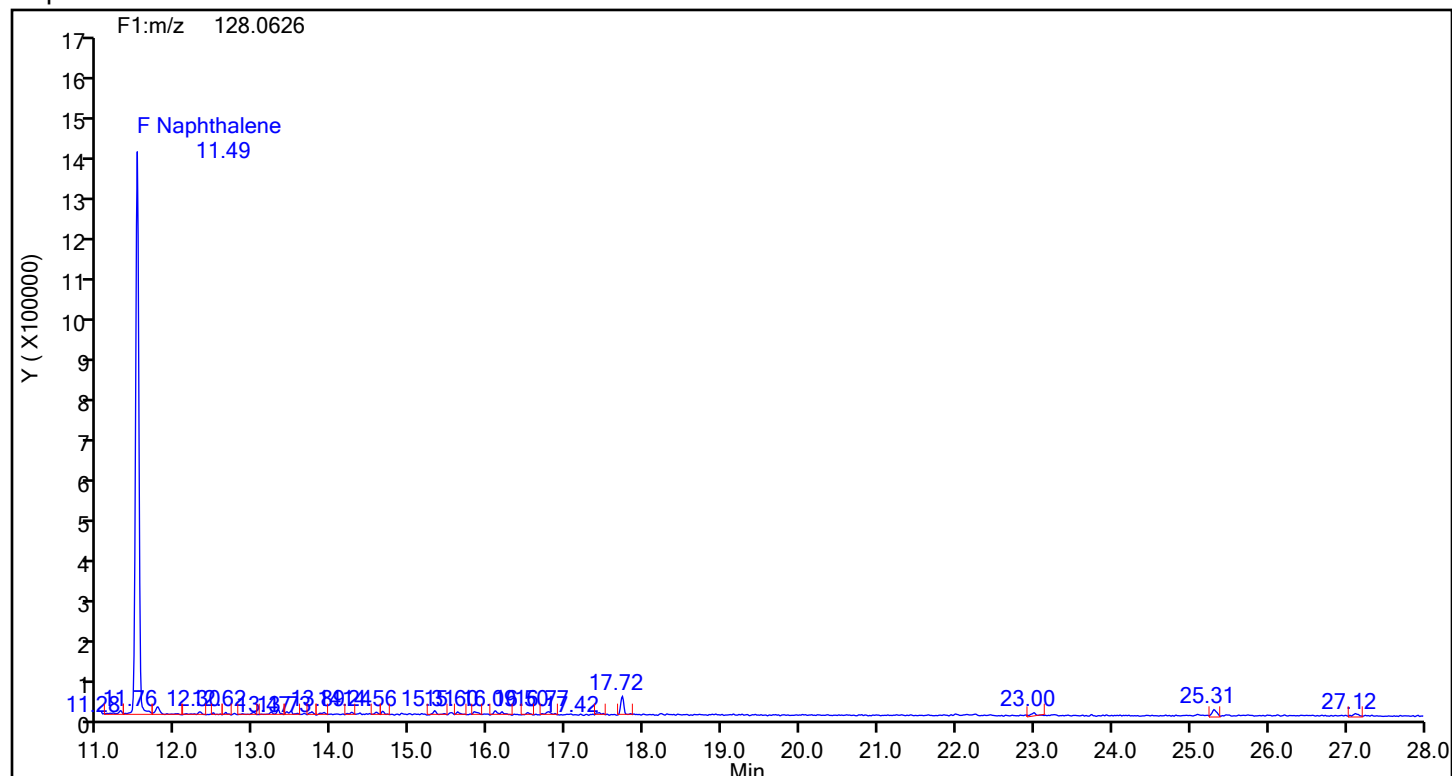
Worklist#: 87921

Sample Line#: 8

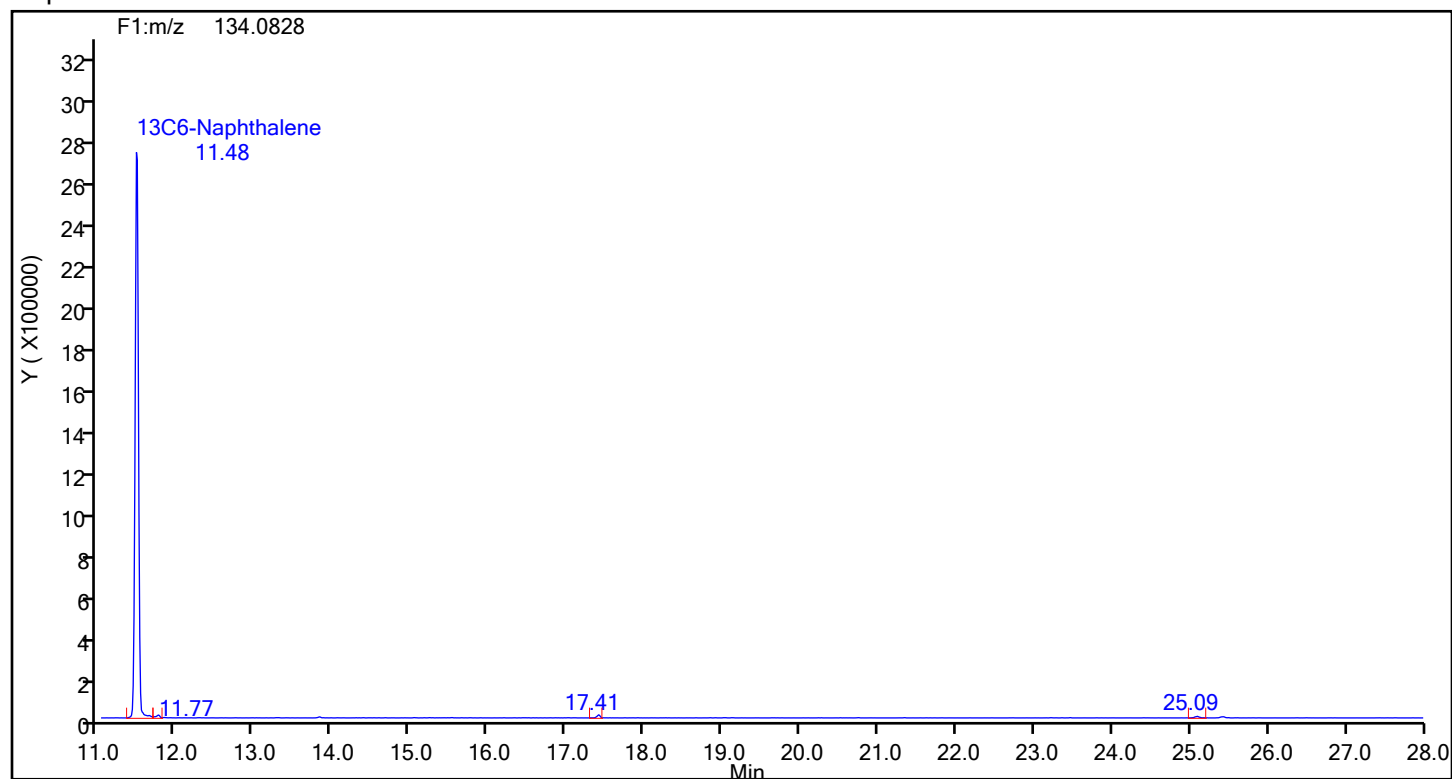
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d

Injection Date: 21-Jun-2024 06:10:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

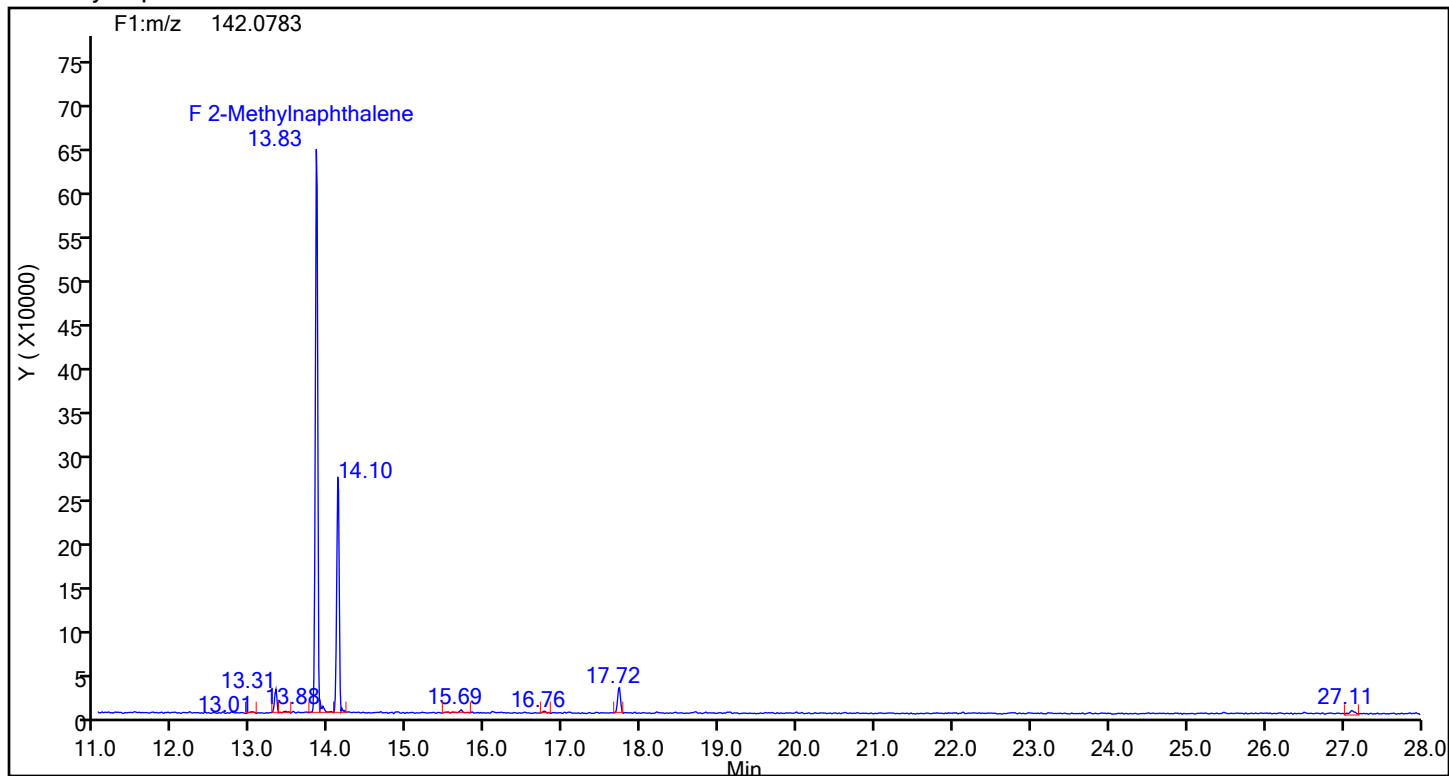
Worklist#: 87921

Sample Line#: 8

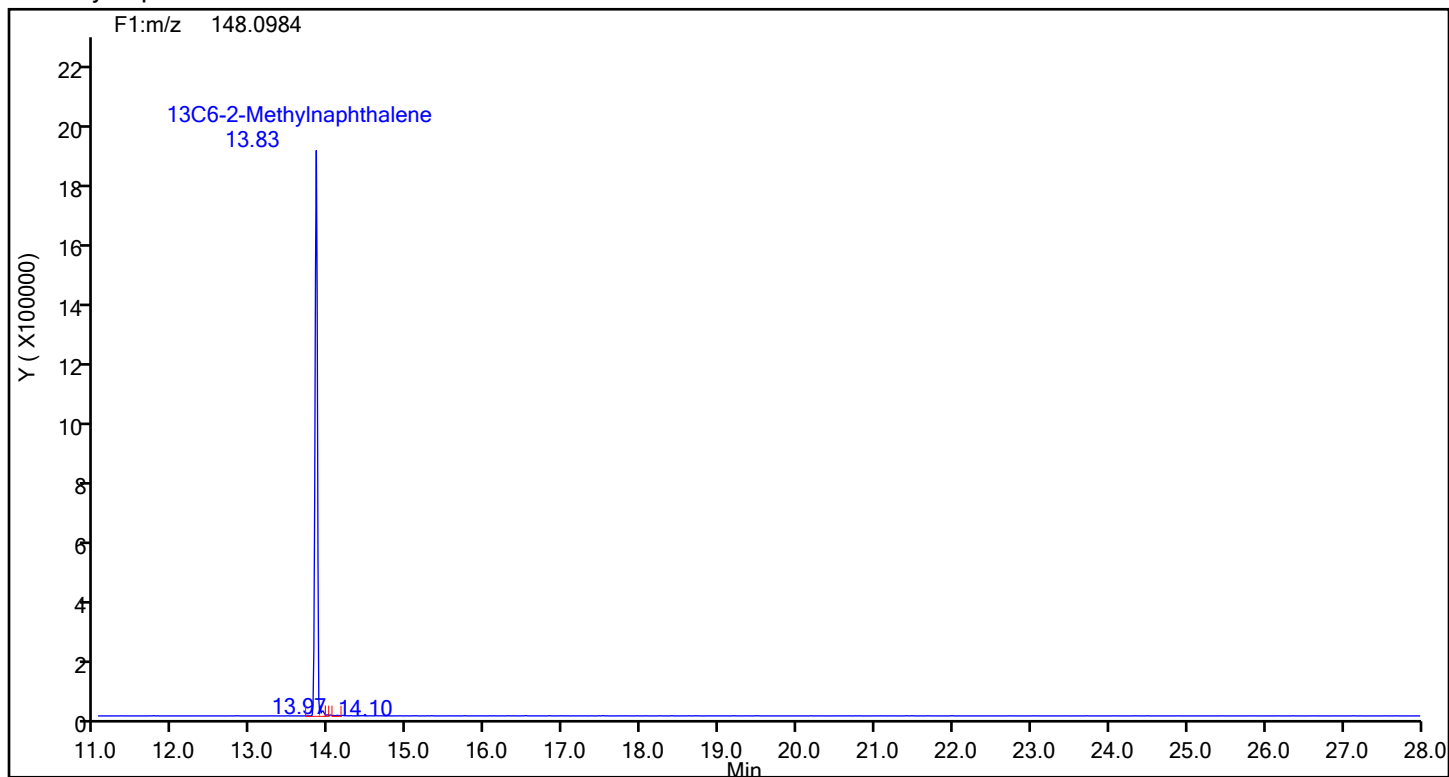
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

2-Methylnaphthalene



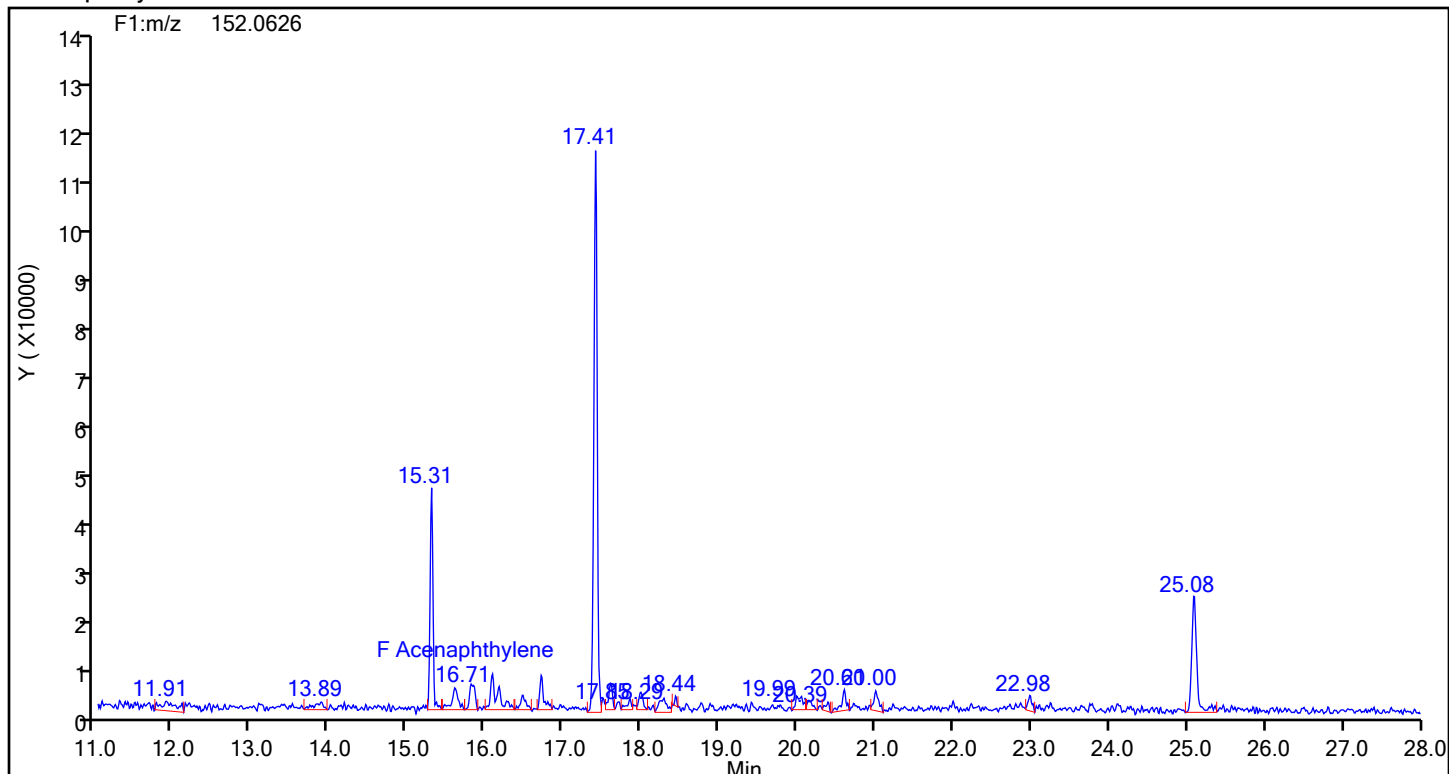
2-Methylnaphthalene Standards



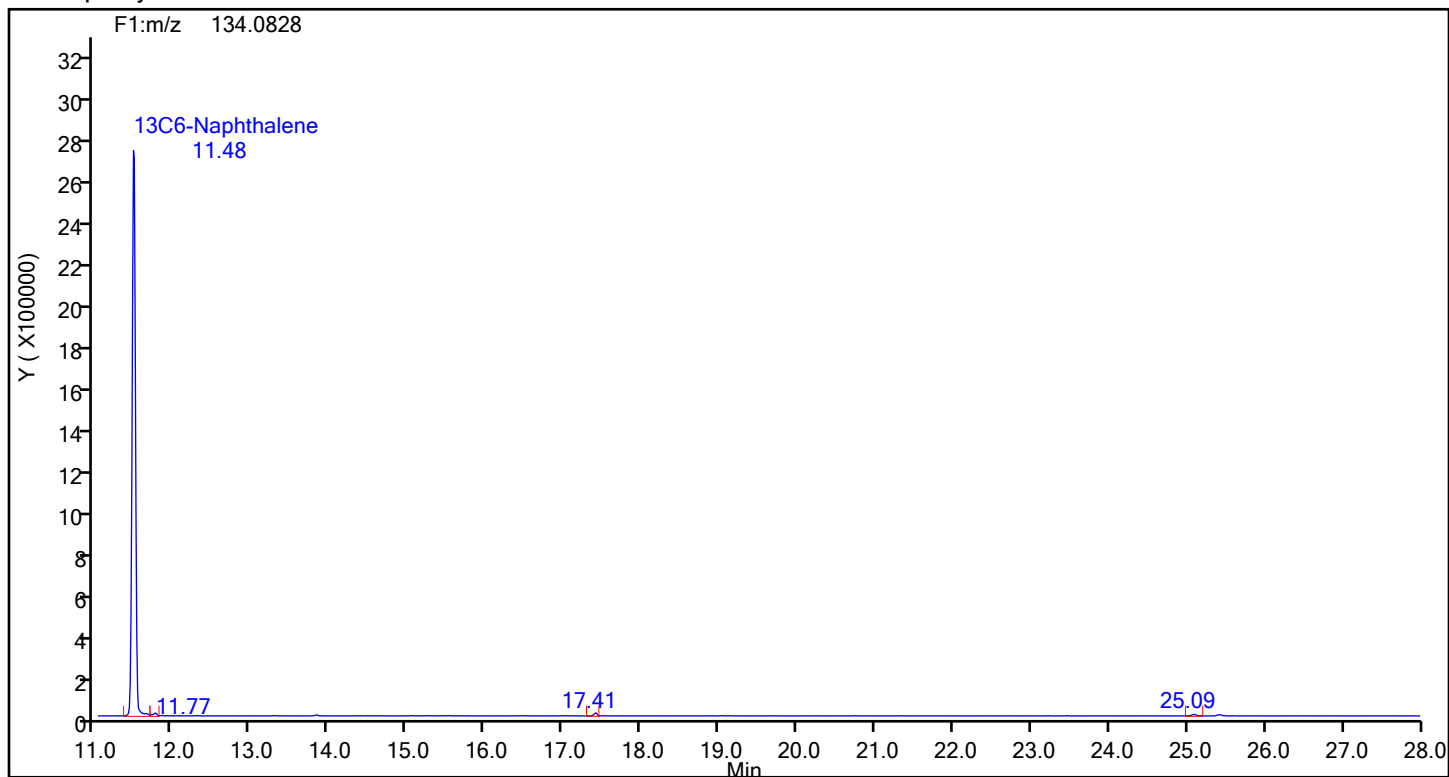
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d
Injection Date: 21-Jun-2024 06:10:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d

Injection Date: 21-Jun-2024 06:10:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

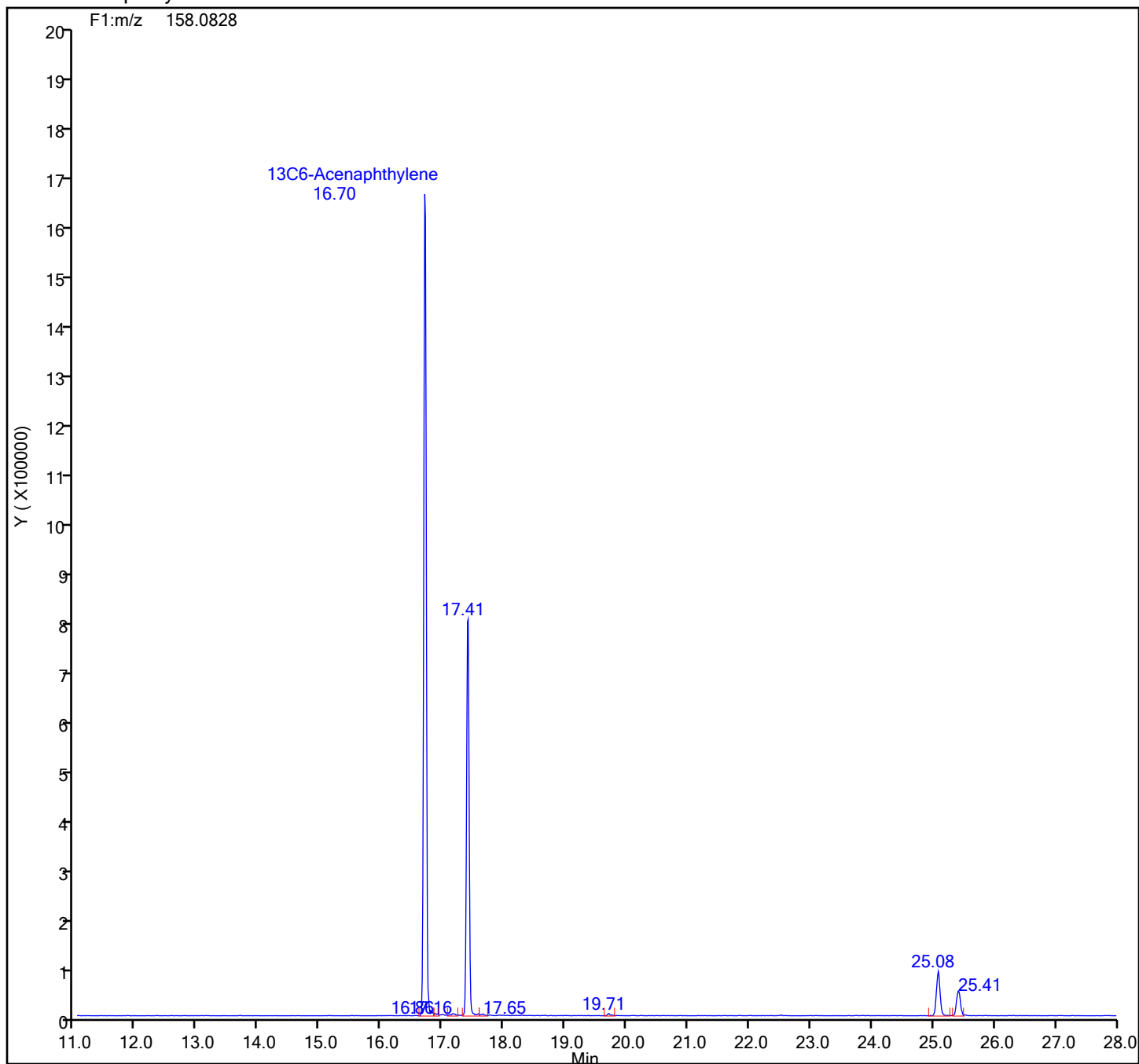
Worklist#: 87921

Sample Line#: 8

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

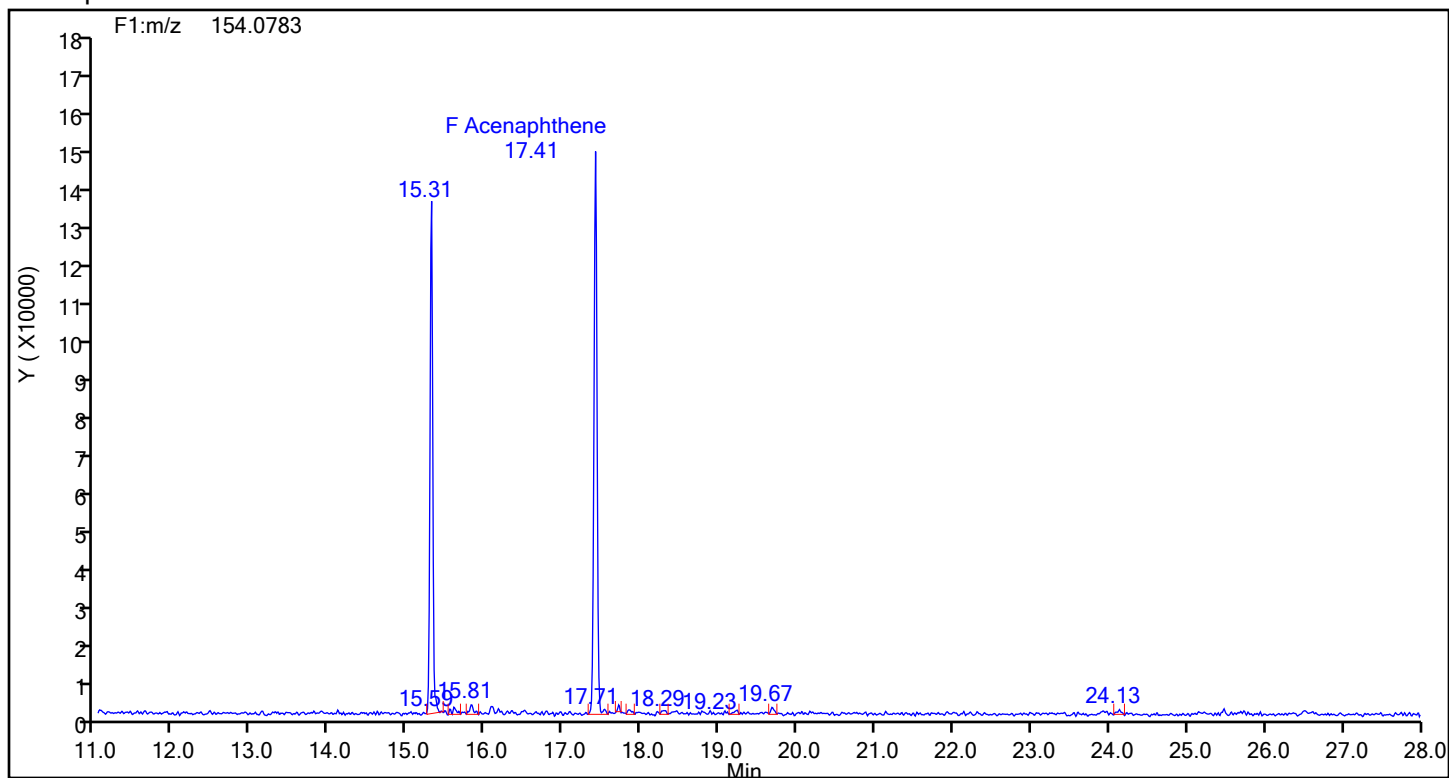
13C6-Acenaphthylene Standards



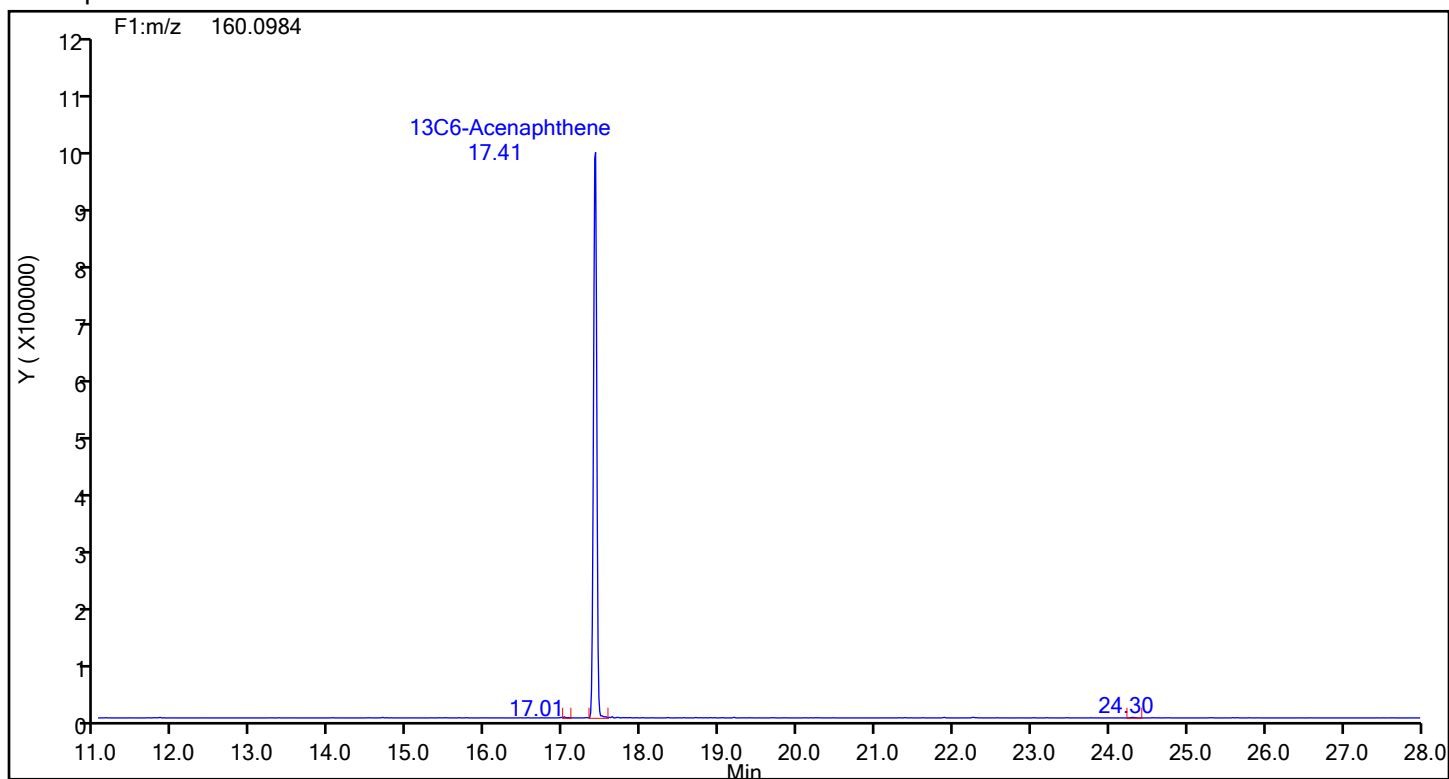
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d
Injection Date: 21-Jun-2024 06:10:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



Acenaphthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d

Injection Date: 21-Jun-2024 06:10:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

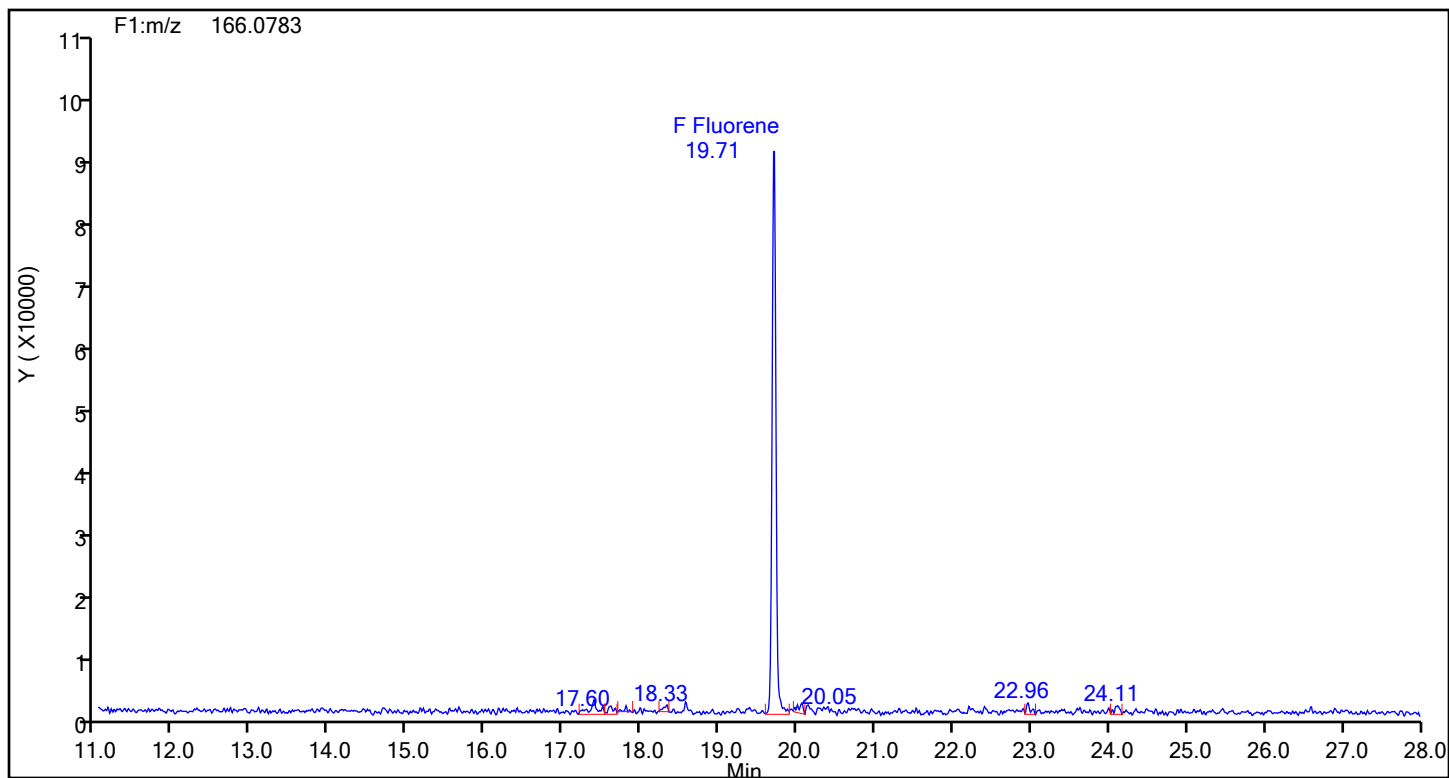
Worklist#: 87921

Sample Line#: 8

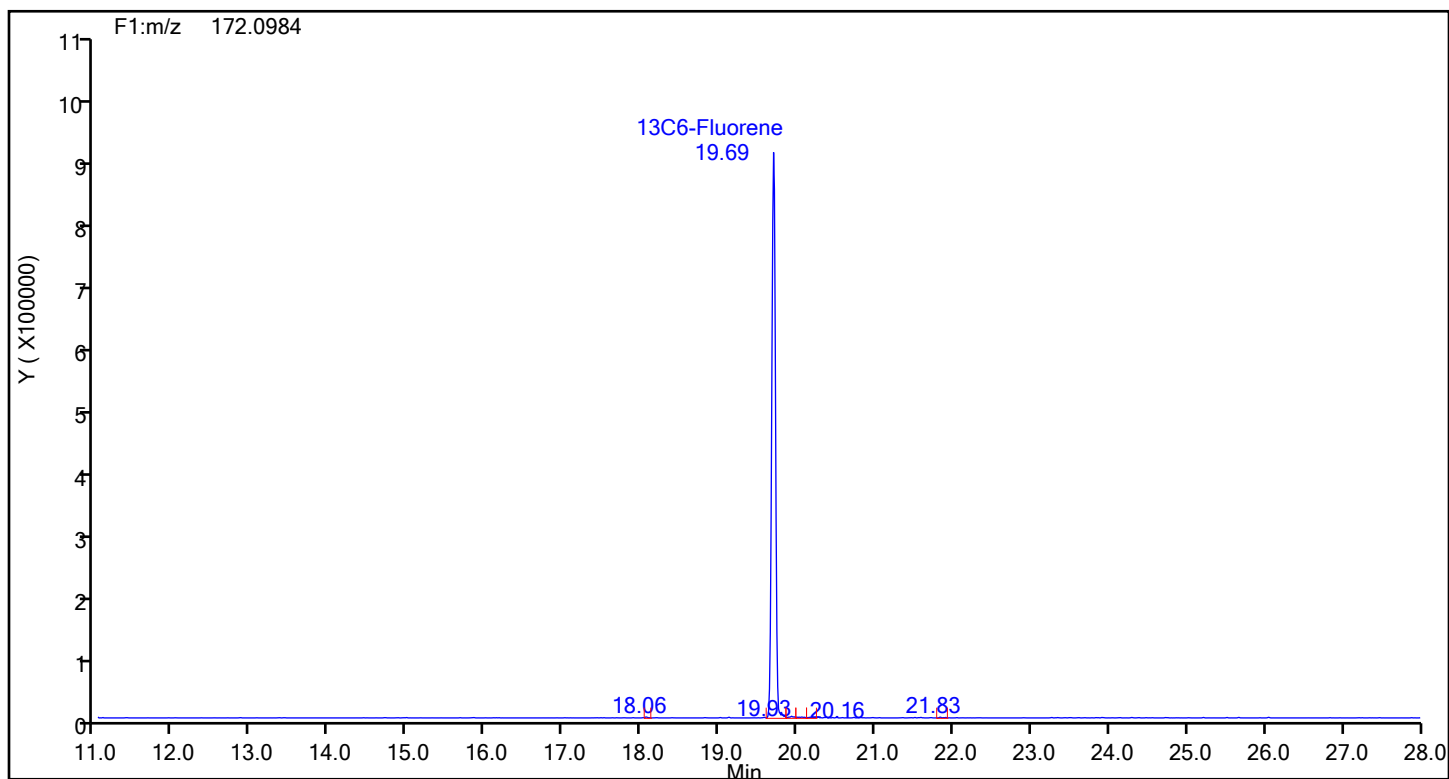
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Fluorene



Fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d

Injection Date: 21-Jun-2024 06:10:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

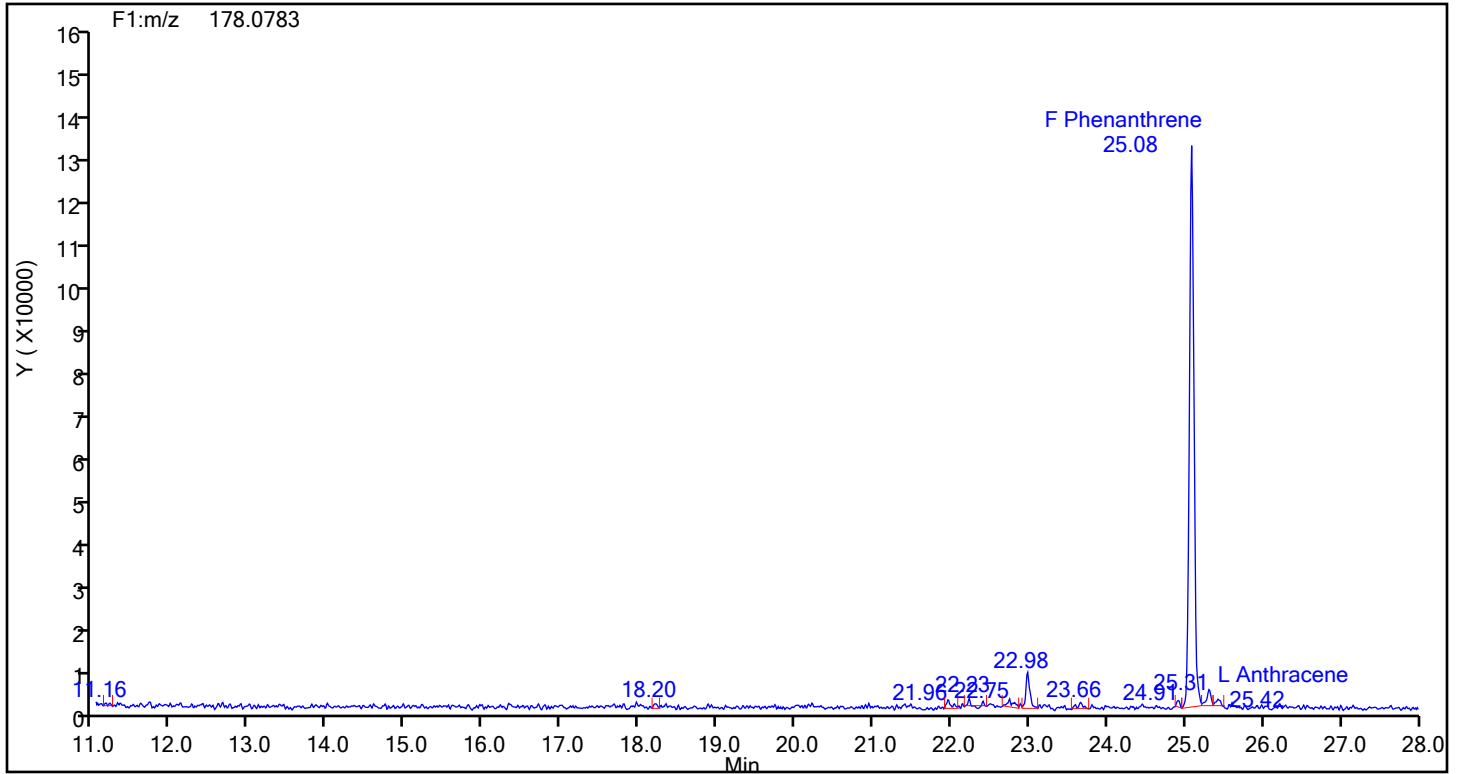
Worklist#: 87921

Sample Line#: 8

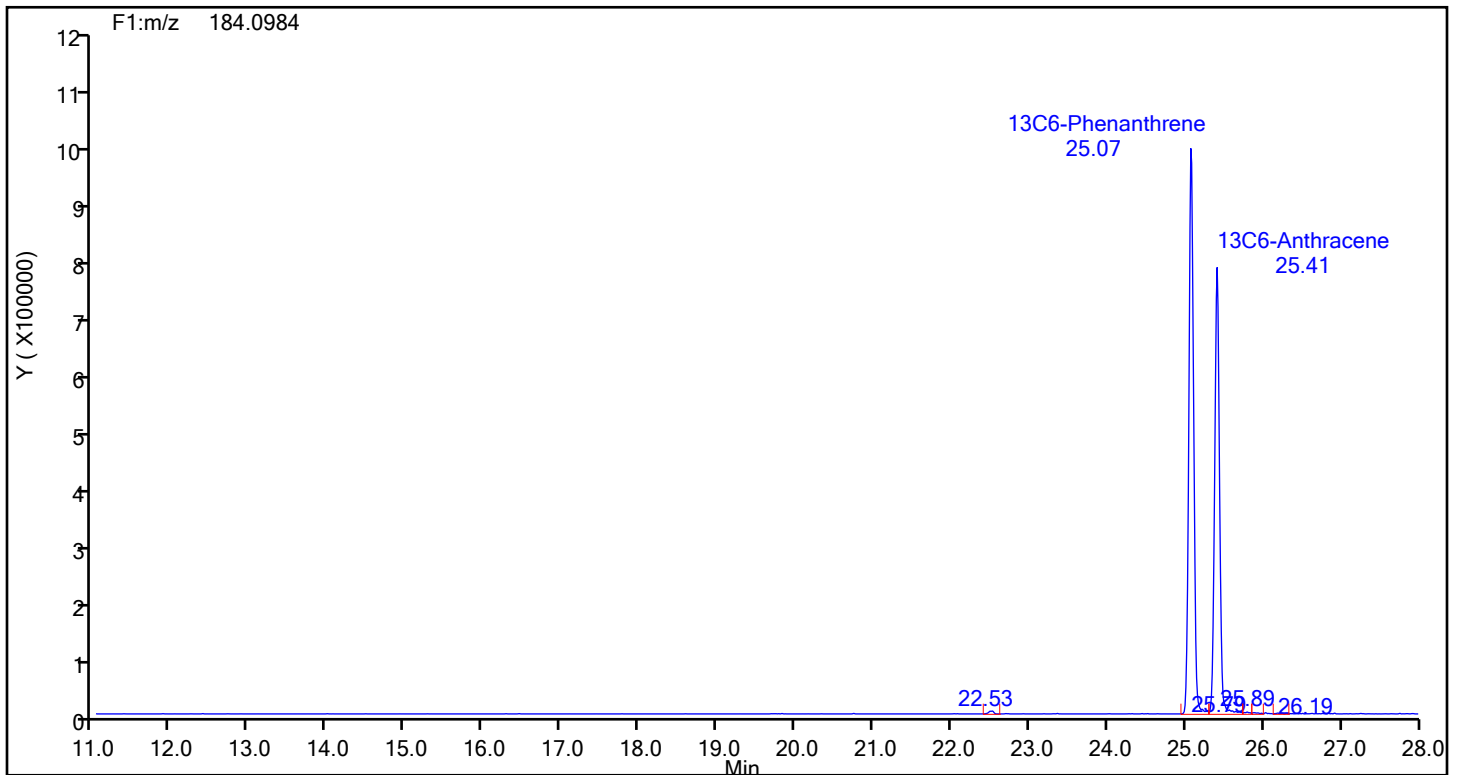
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Phenanthrene

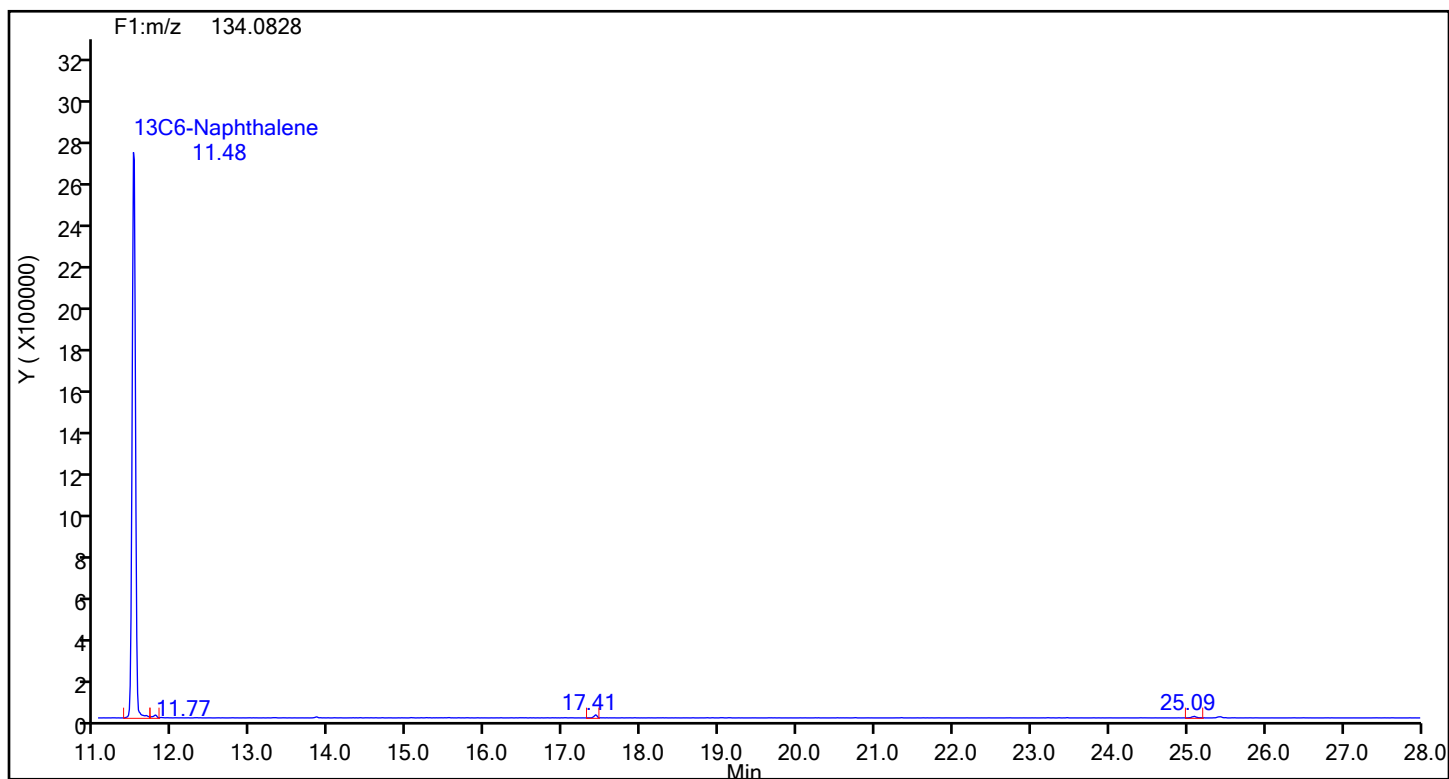
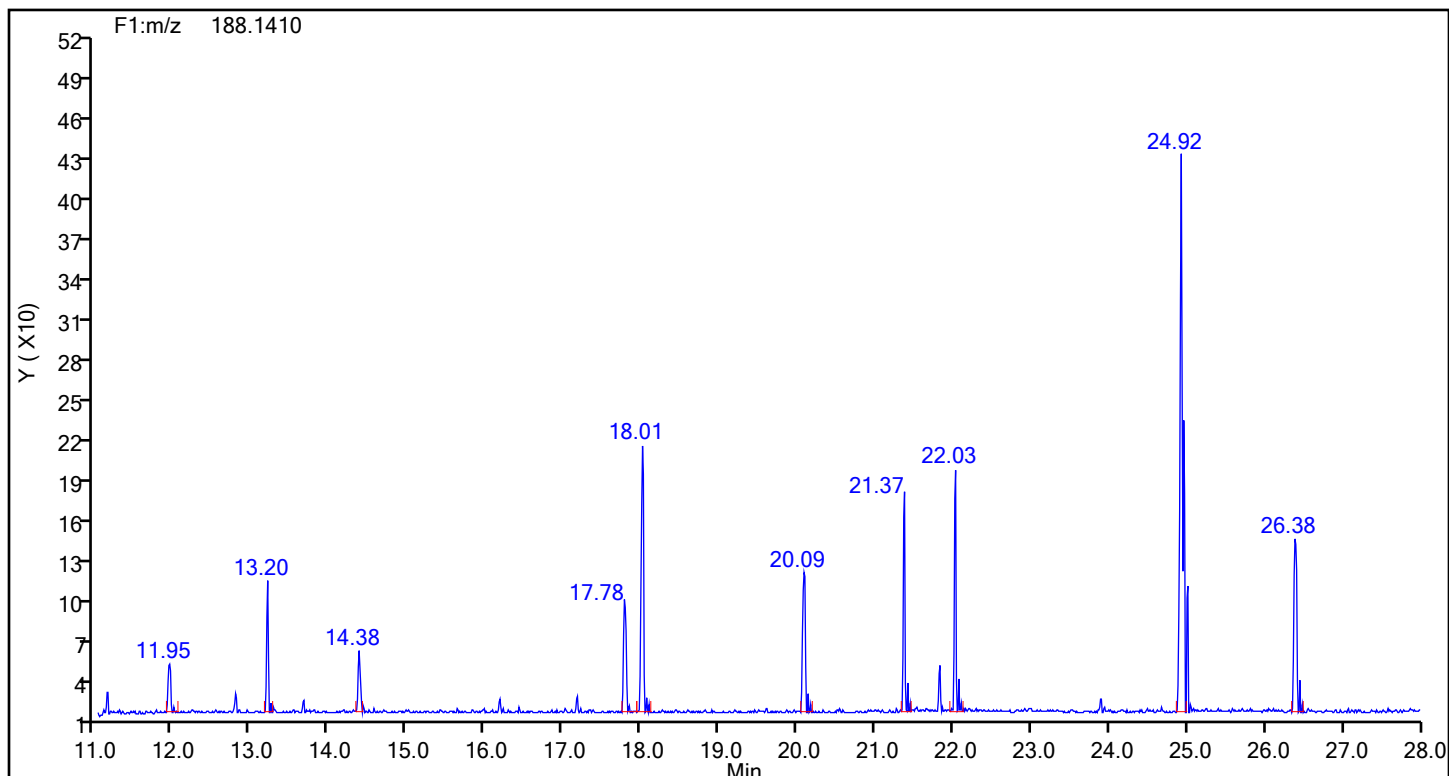


Phenanthrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d
Injection Date: 21-Jun-2024 06:10:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d

Injection Date: 21-Jun-2024 06:10:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

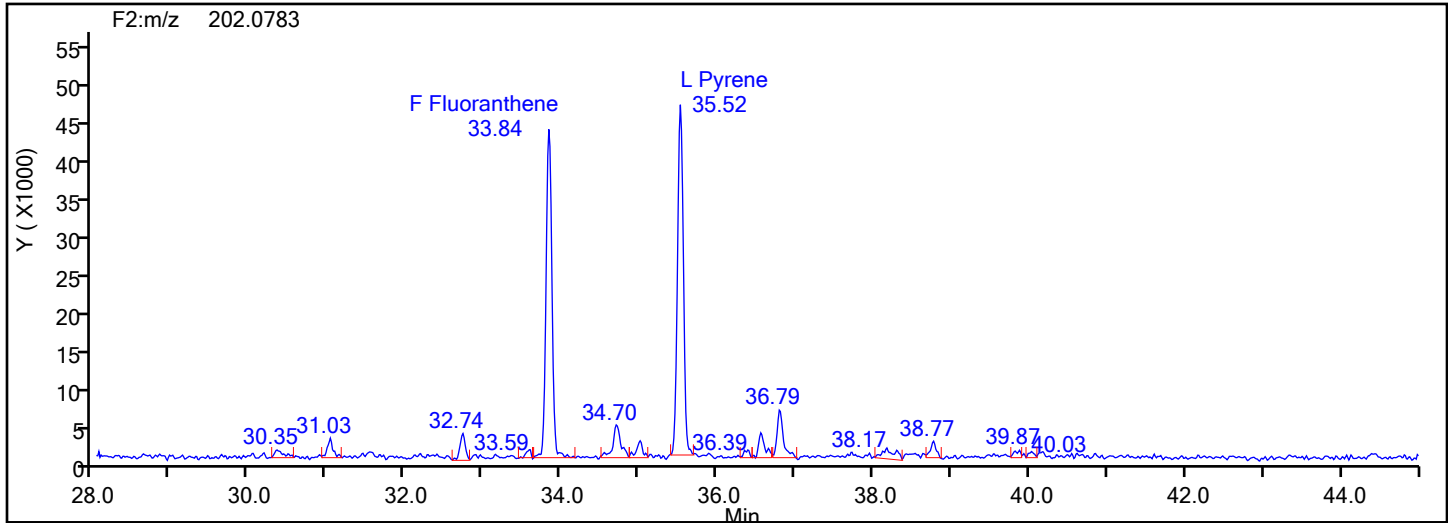
Worklist#: 87921

Sample Line#: 8

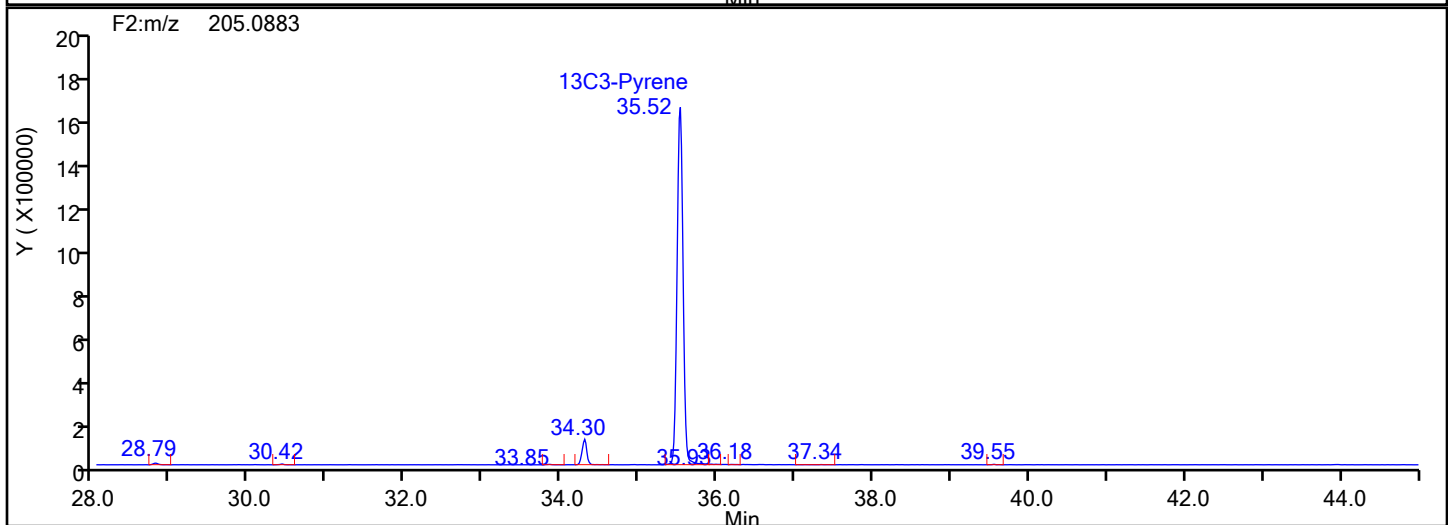
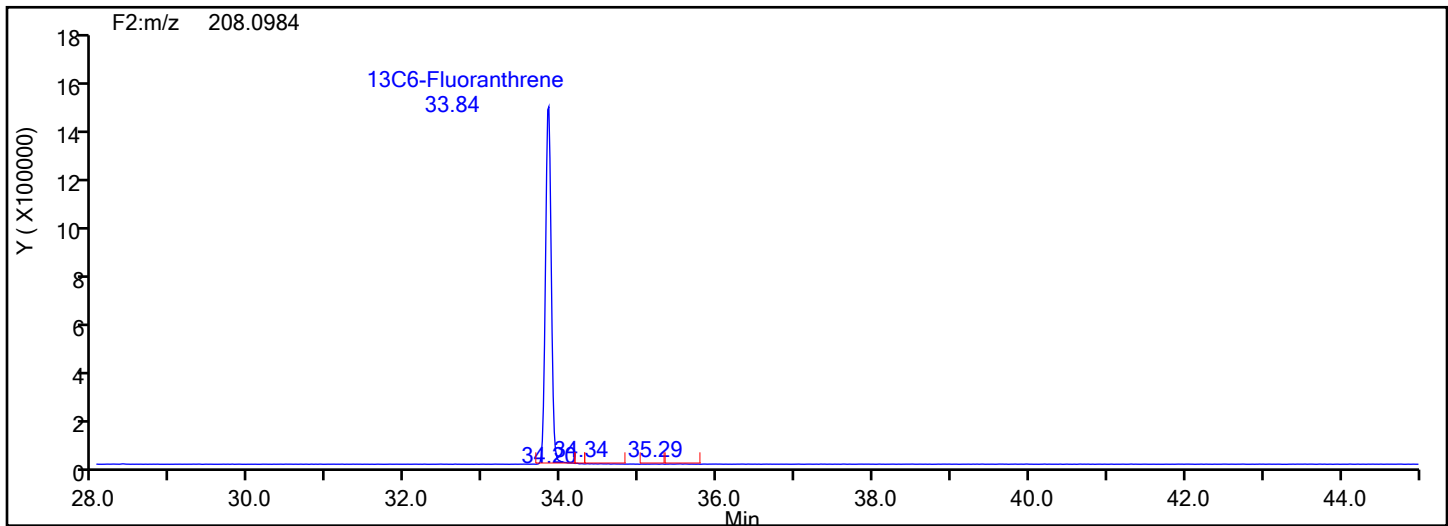
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Fluoranthene



Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d

Injection Date: 21-Jun-2024 06:10:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

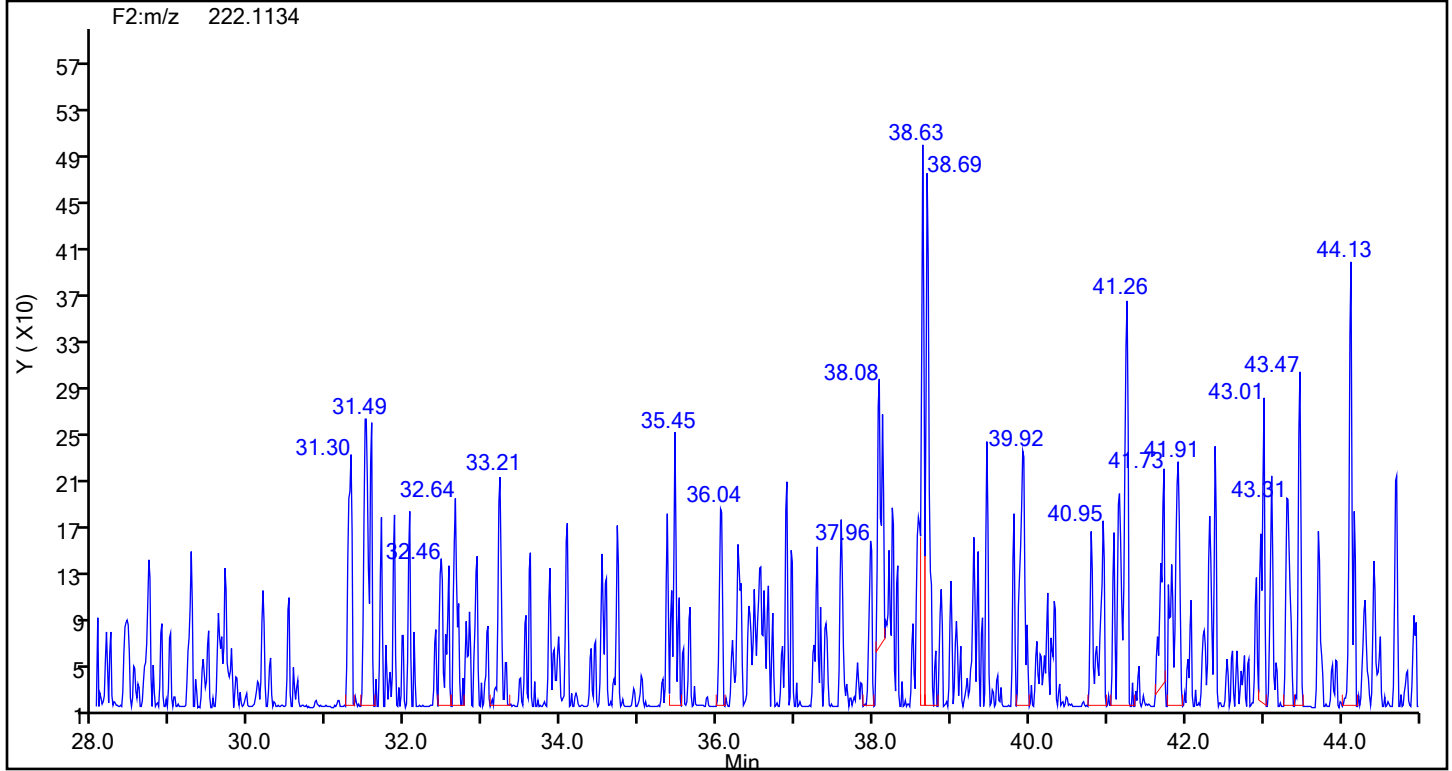
Worklist#: 87921

Sample Line#: 8

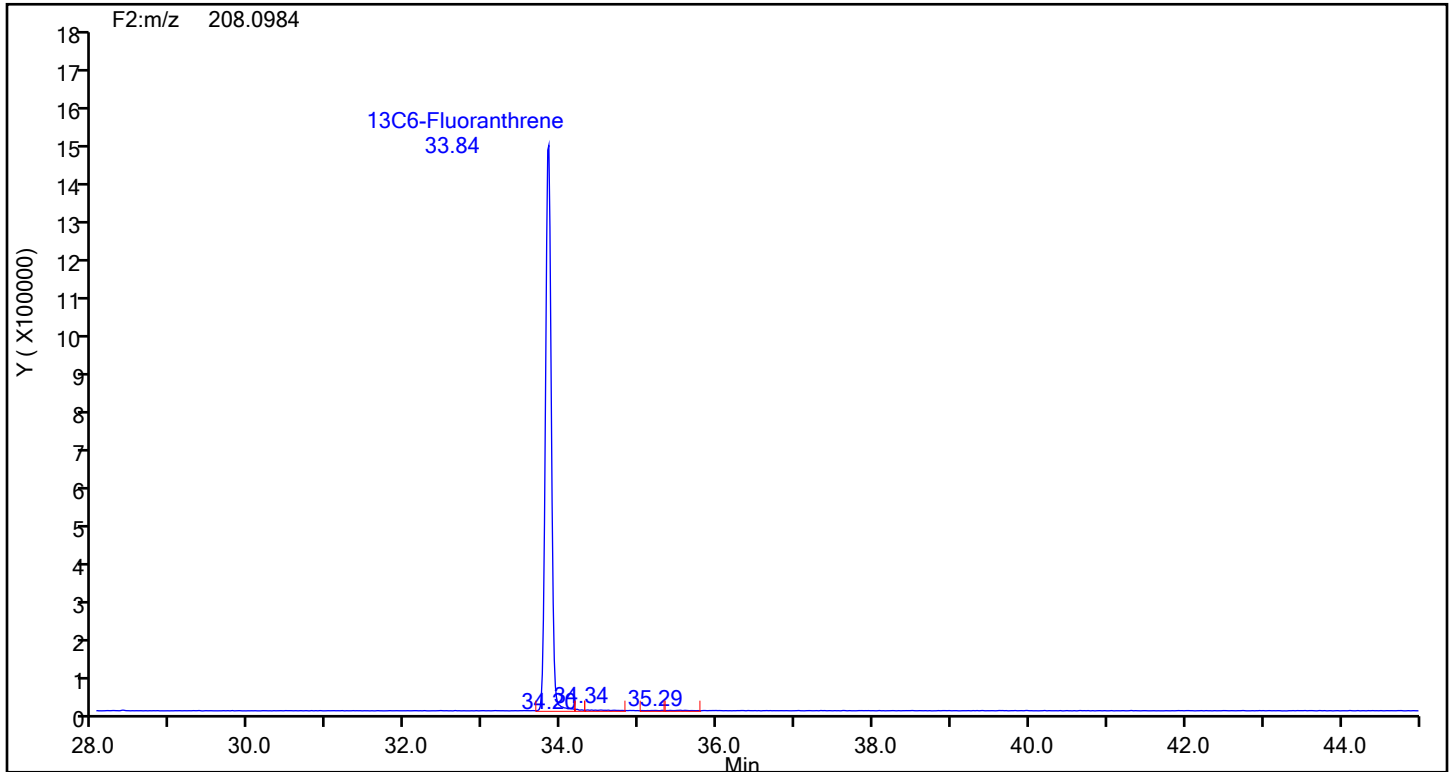
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



13C6-Benzo(c)fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d

Injection Date: 21-Jun-2024 06:10:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

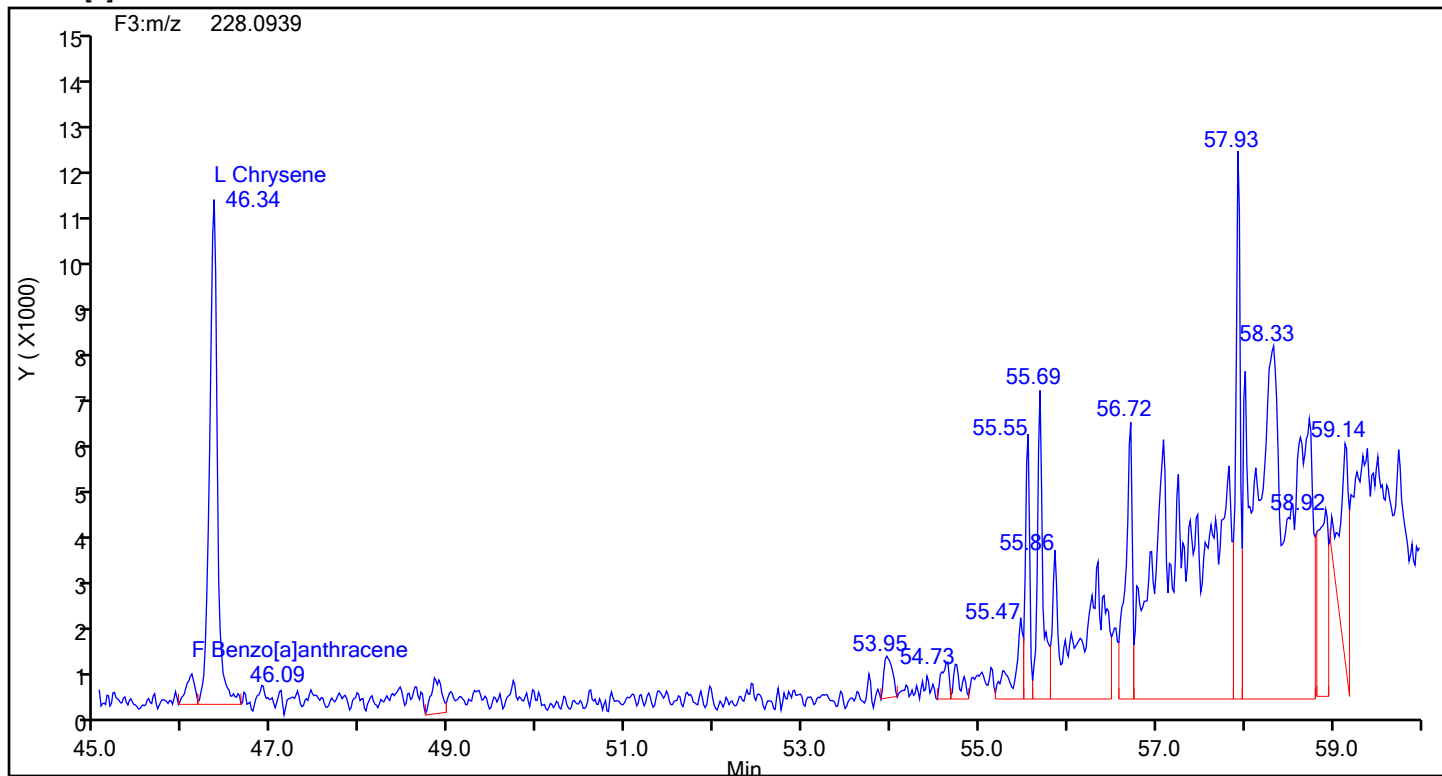
Worklist#: 87921

Sample Line#: 8

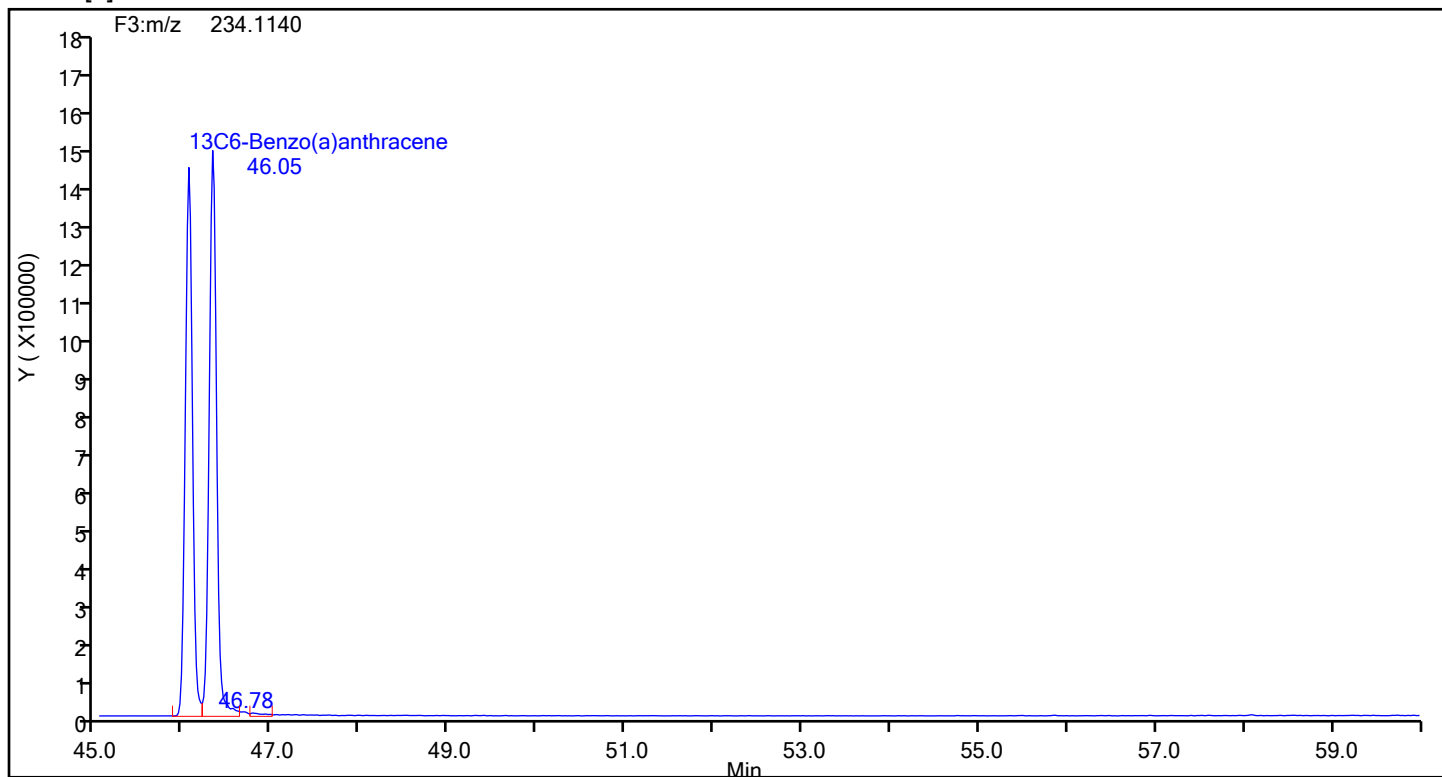
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d

Injection Date: 21-Jun-2024 06:10:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

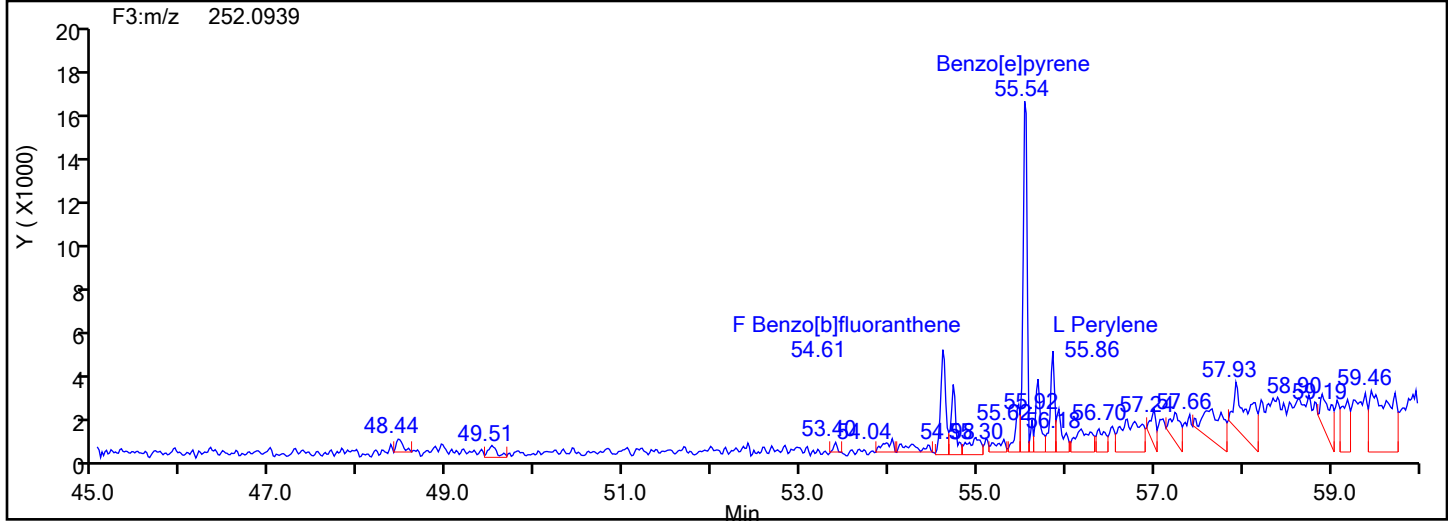
Worklist#: 87921

Sample Line#: 8

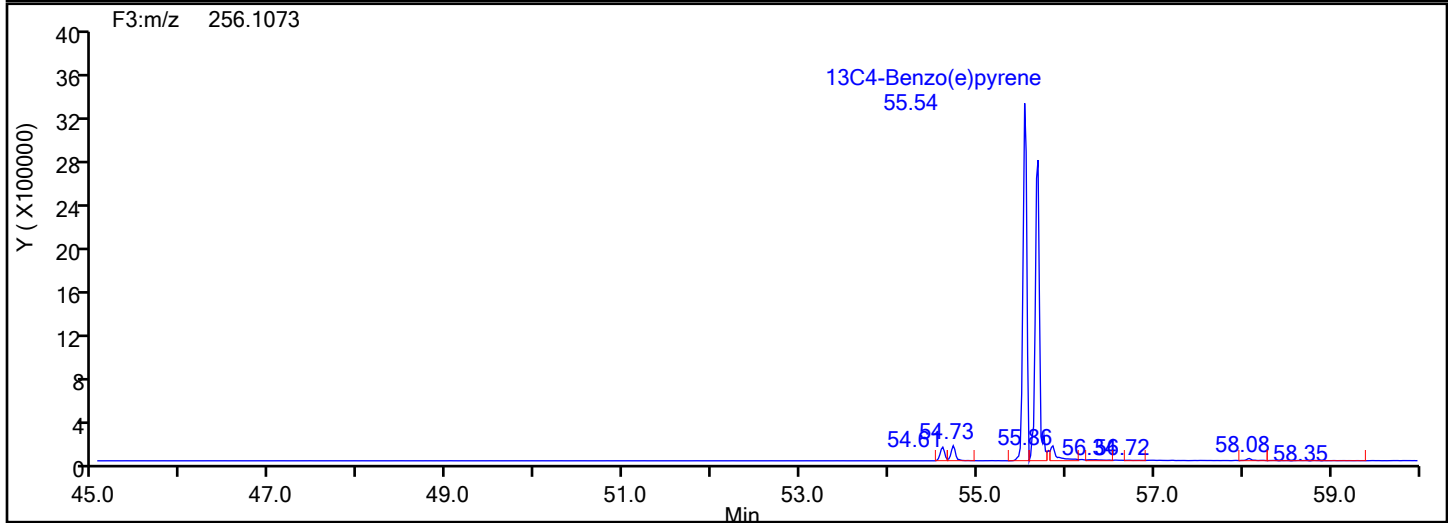
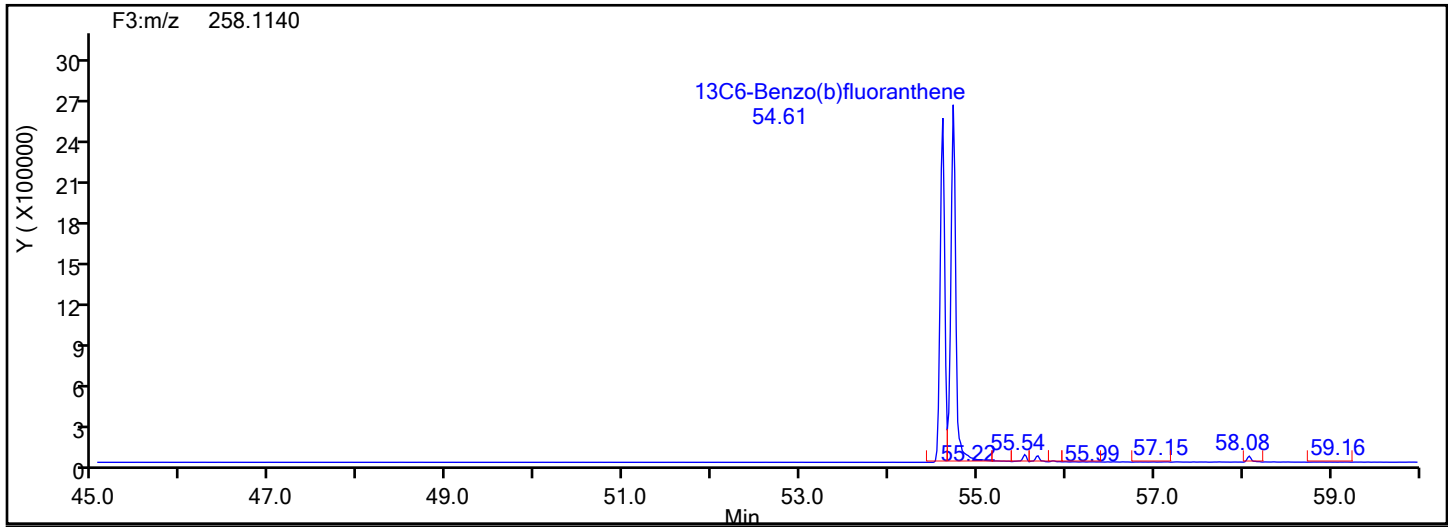
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

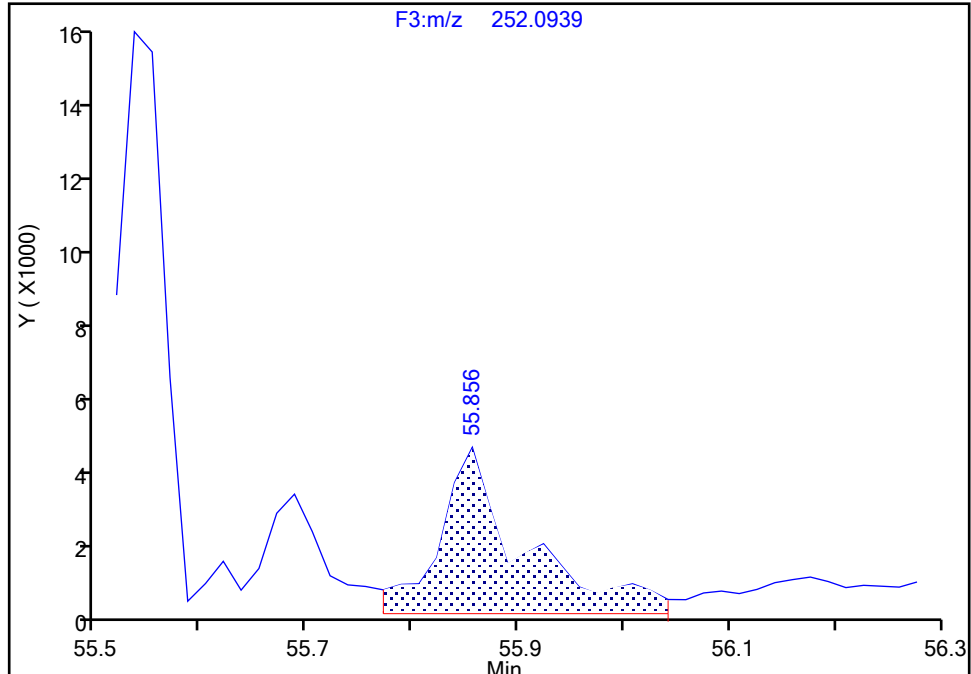
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d
Injection Date: 21-Jun-2024 06:10:00 Instrument ID: D3PAH
Lims ID: MB 140-87205/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

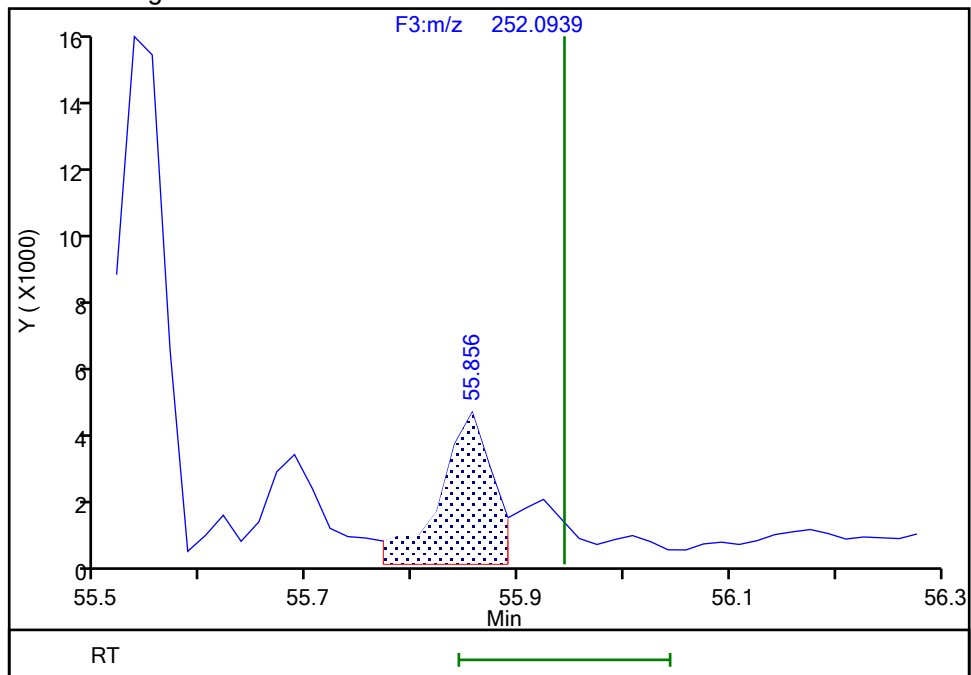
RT: 55.86
Area: 24062
Amount: 0.222594
Amount Units: pg/ul

Processing Integration Results



RT: 55.86
Area: 15930
Amount: 0.147366
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 15:17:28 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d

Injection Date: 21-Jun-2024 06:10:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

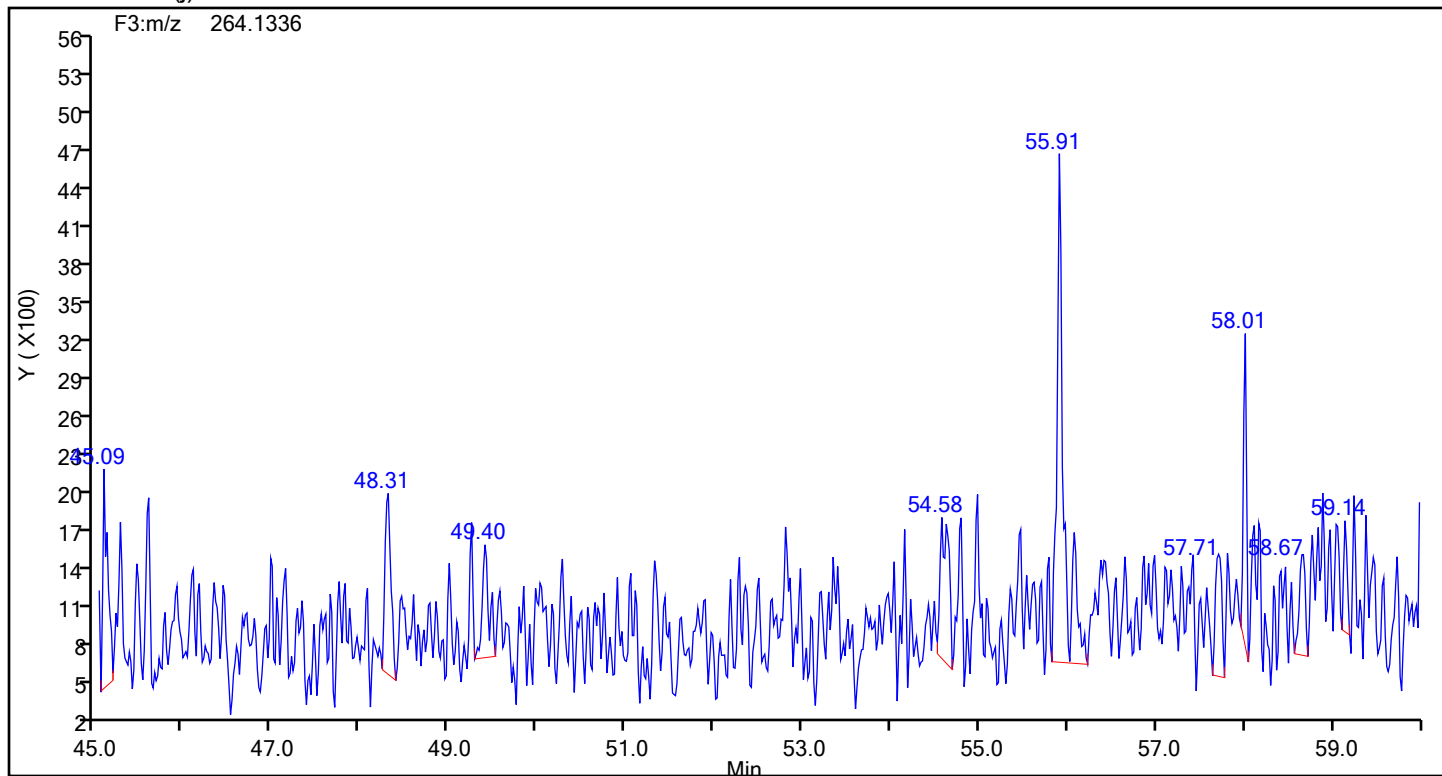
Worklist#: 87921

Sample Line#: 8

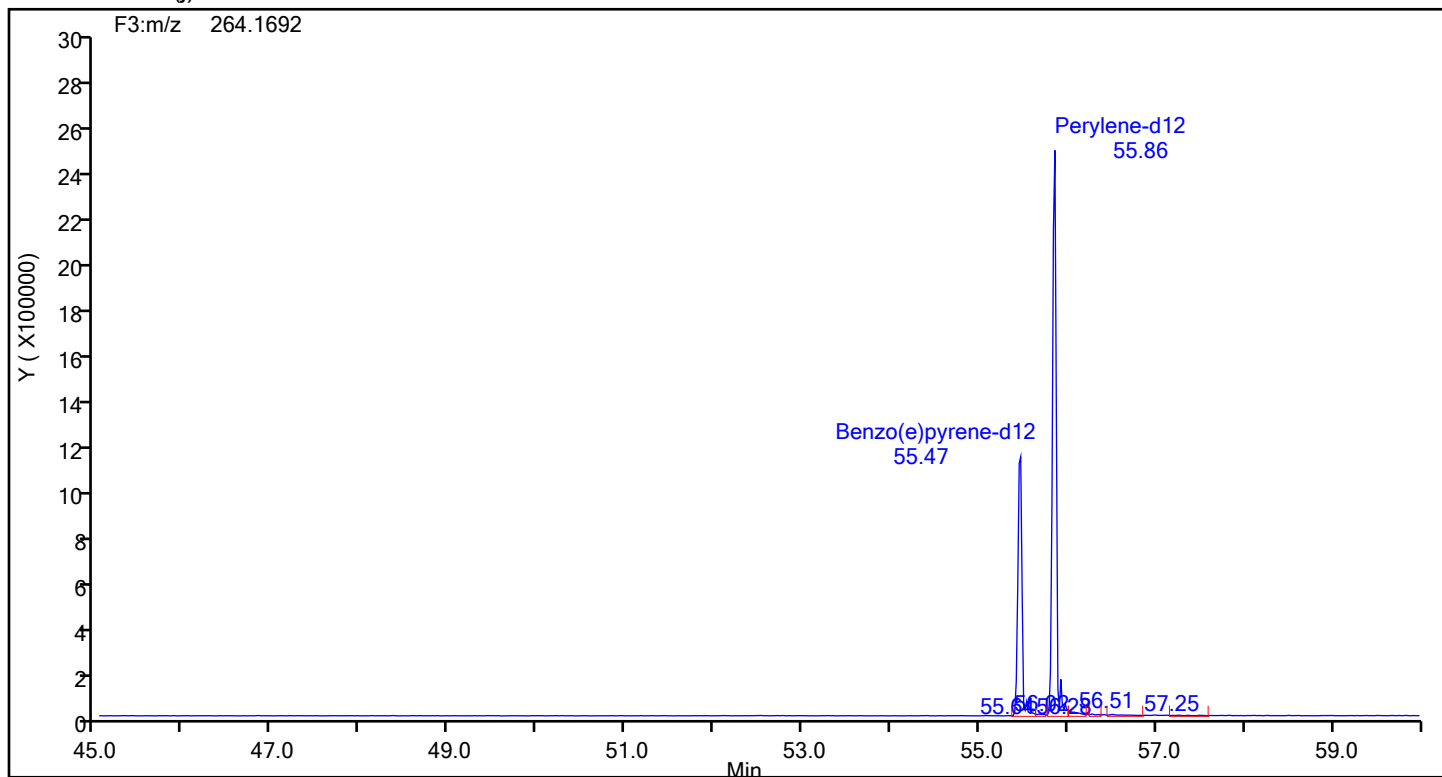
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d

Injection Date: 21-Jun-2024 06:10:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

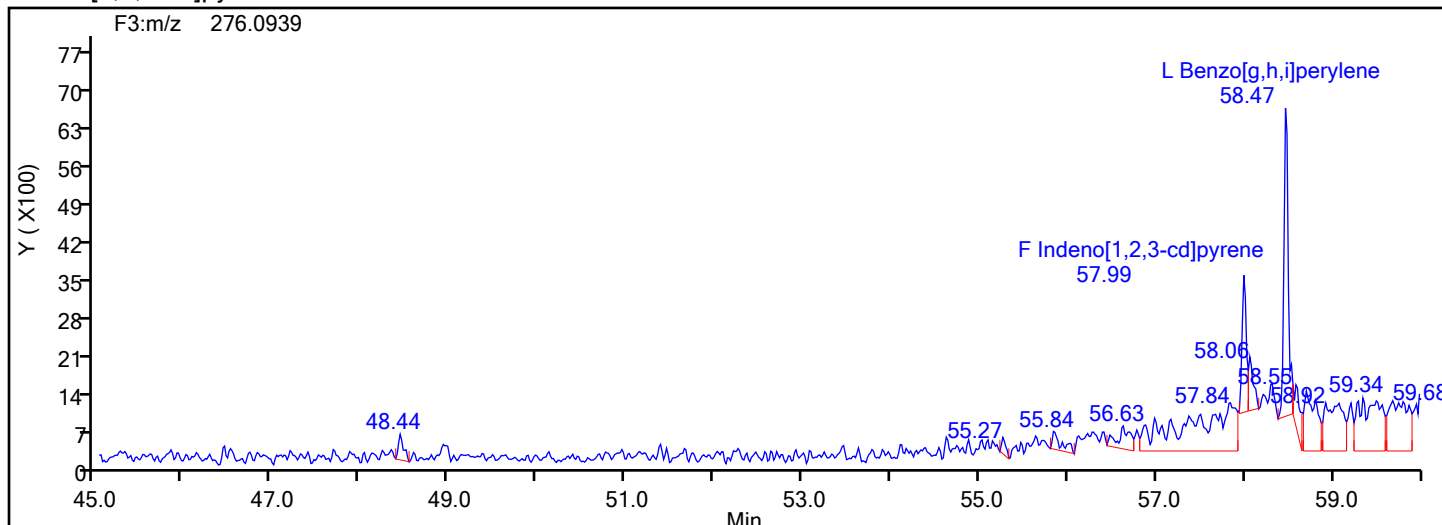
Worklist#: 87921

Sample Line#: 8

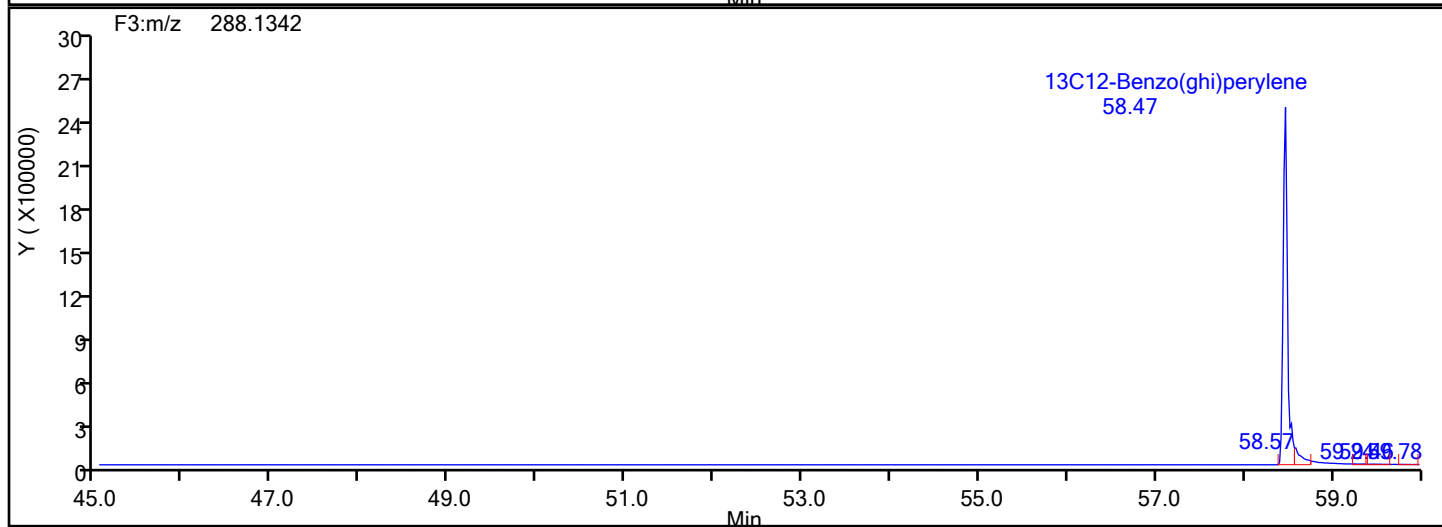
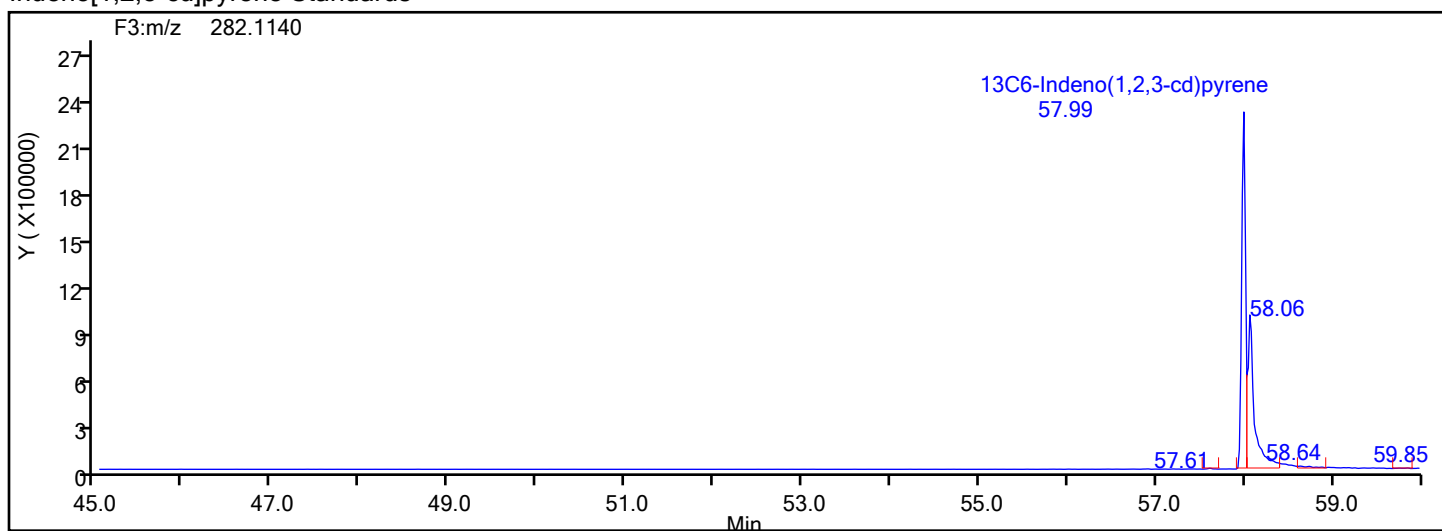
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

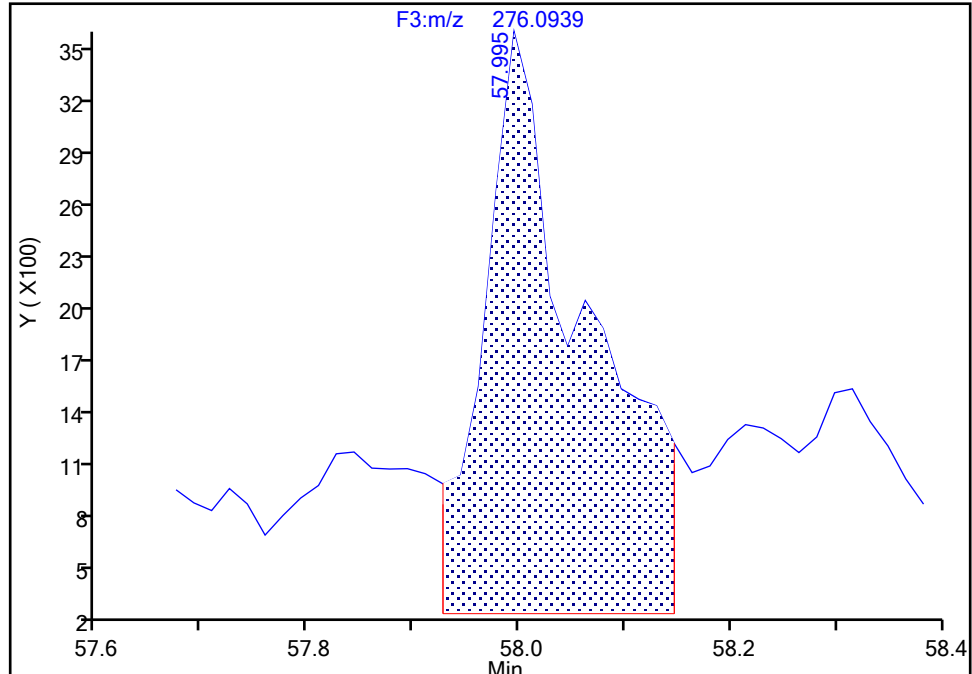
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d
Injection Date: 21-Jun-2024 06:10:00 Instrument ID: D3PAH
Lims ID: MB 140-87205/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

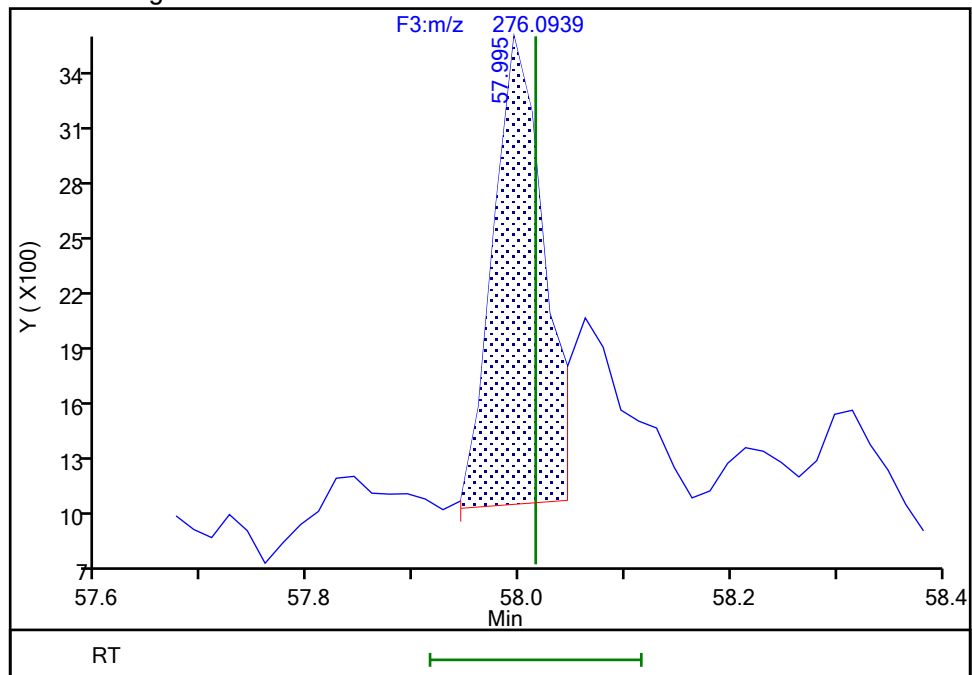
RT: 57.99
Area: 21857
Amount: 0.287593
Amount Units: pg/ul

Processing Integration Results



RT: 57.99
Area: 8631
Amount: 0.113566
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 25-Jun-2024 02:23:33 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

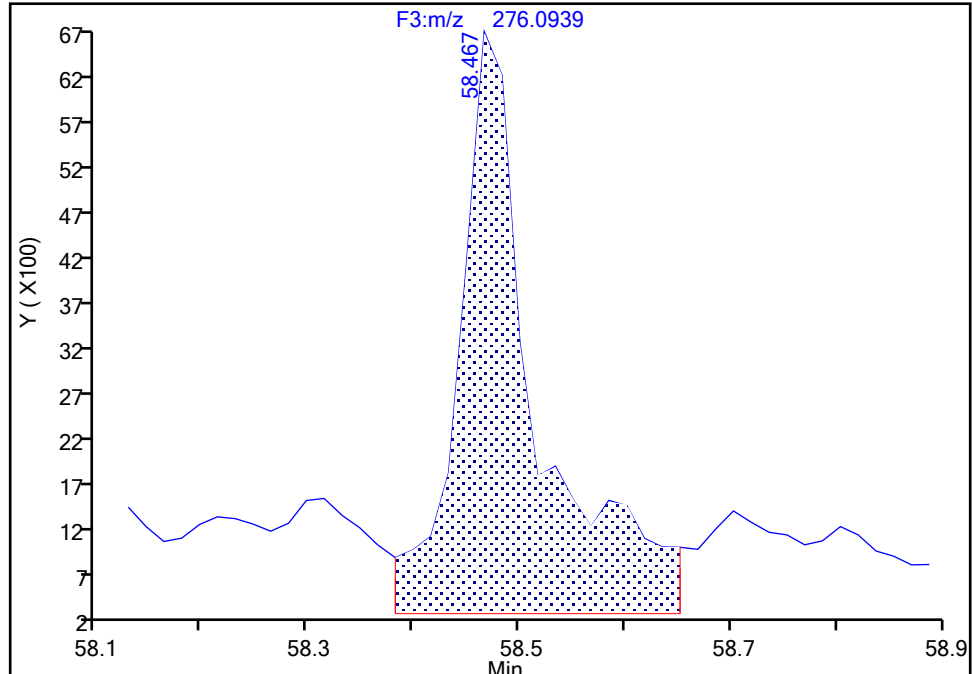
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d
Injection Date: 21-Jun-2024 06:10:00 Instrument ID: D3PAH
Lims ID: MB 140-87205/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

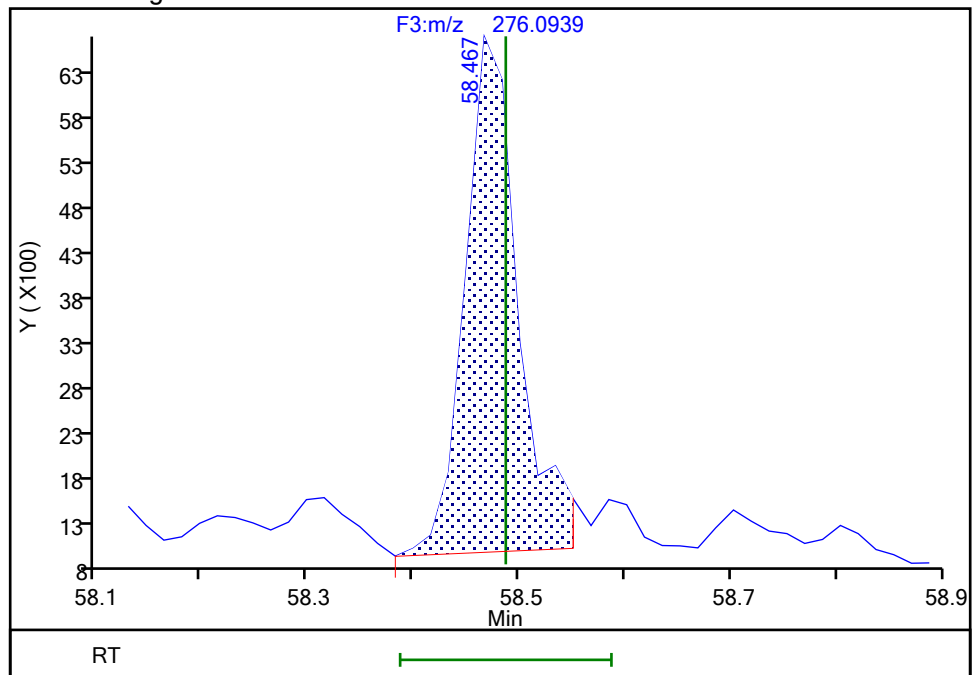
RT: 58.47
Area: 32369
Amount: 0.300848
Amount Units: pg/ul

Processing Integration Results



RT: 58.47
Area: 19991
Amount: 0.185803
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 25-Jun-2024 02:23:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

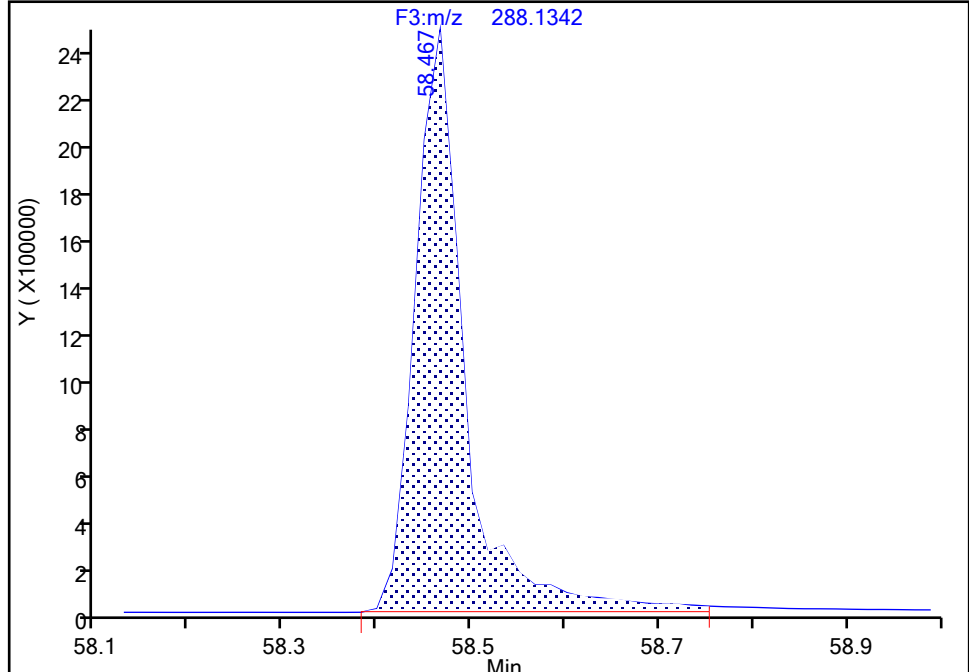
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d
Injection Date: 21-Jun-2024 06:10:00 Instrument ID: D3PAH
Lims ID: MB 140-87205/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

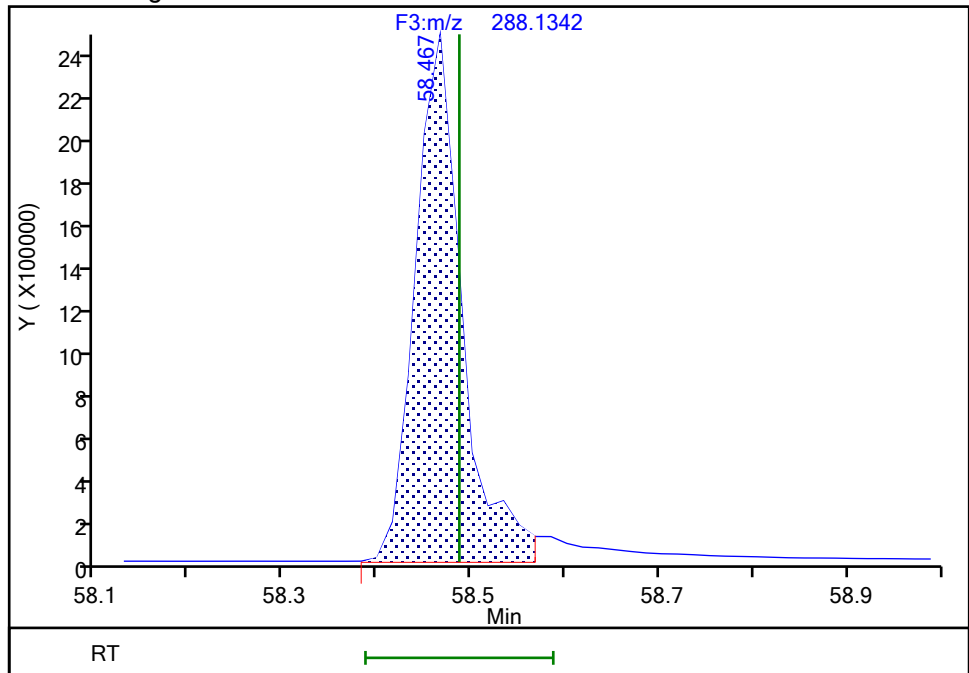
RT: 58.47
Area: 8957802
Amount: 94.225689
Amount Units: pg/ul

Processing Integration Results



RT: 58.47
Area: 8381074
Amount: 88.159179
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 15:18:12 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d

Injection Date: 21-Jun-2024 06:10:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

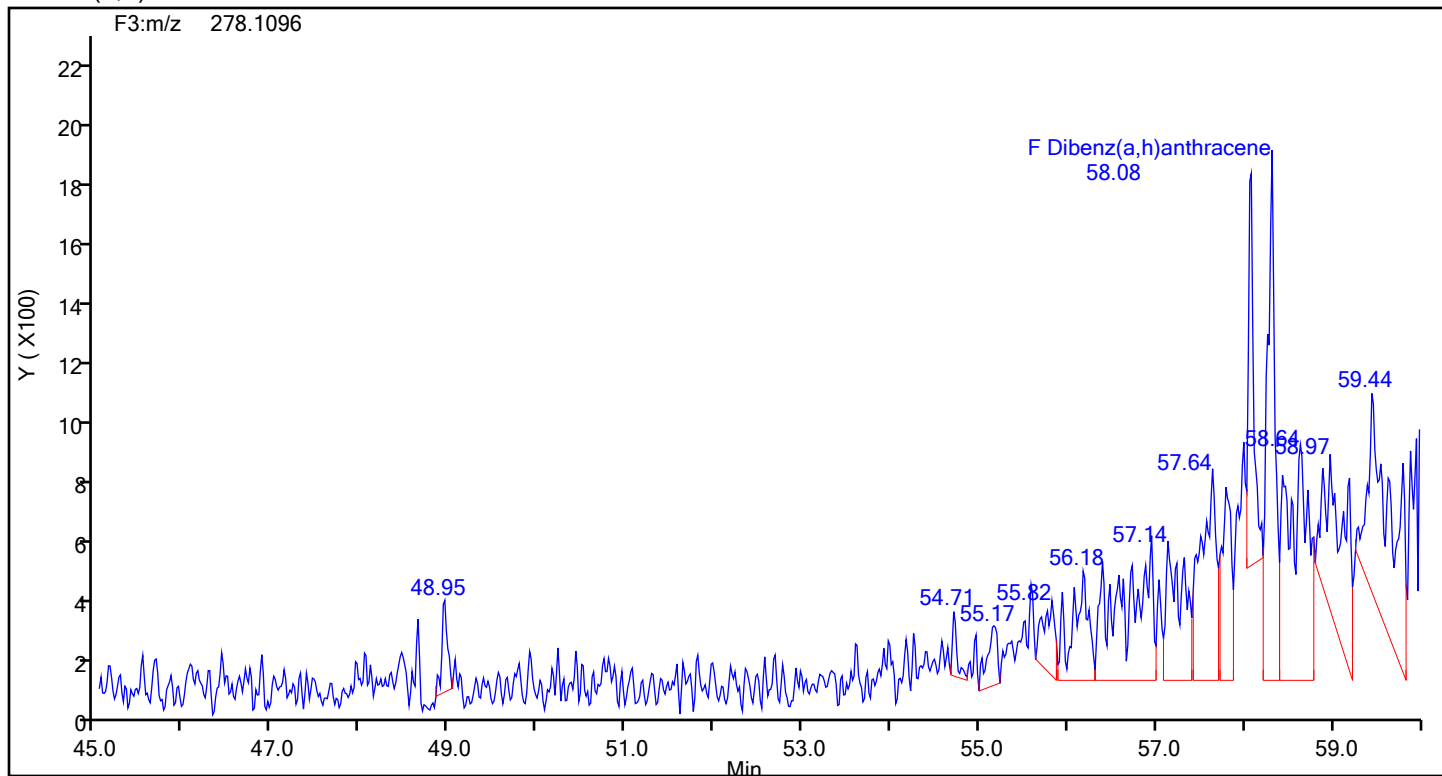
Worklist#: 87921

Sample Line#: 8

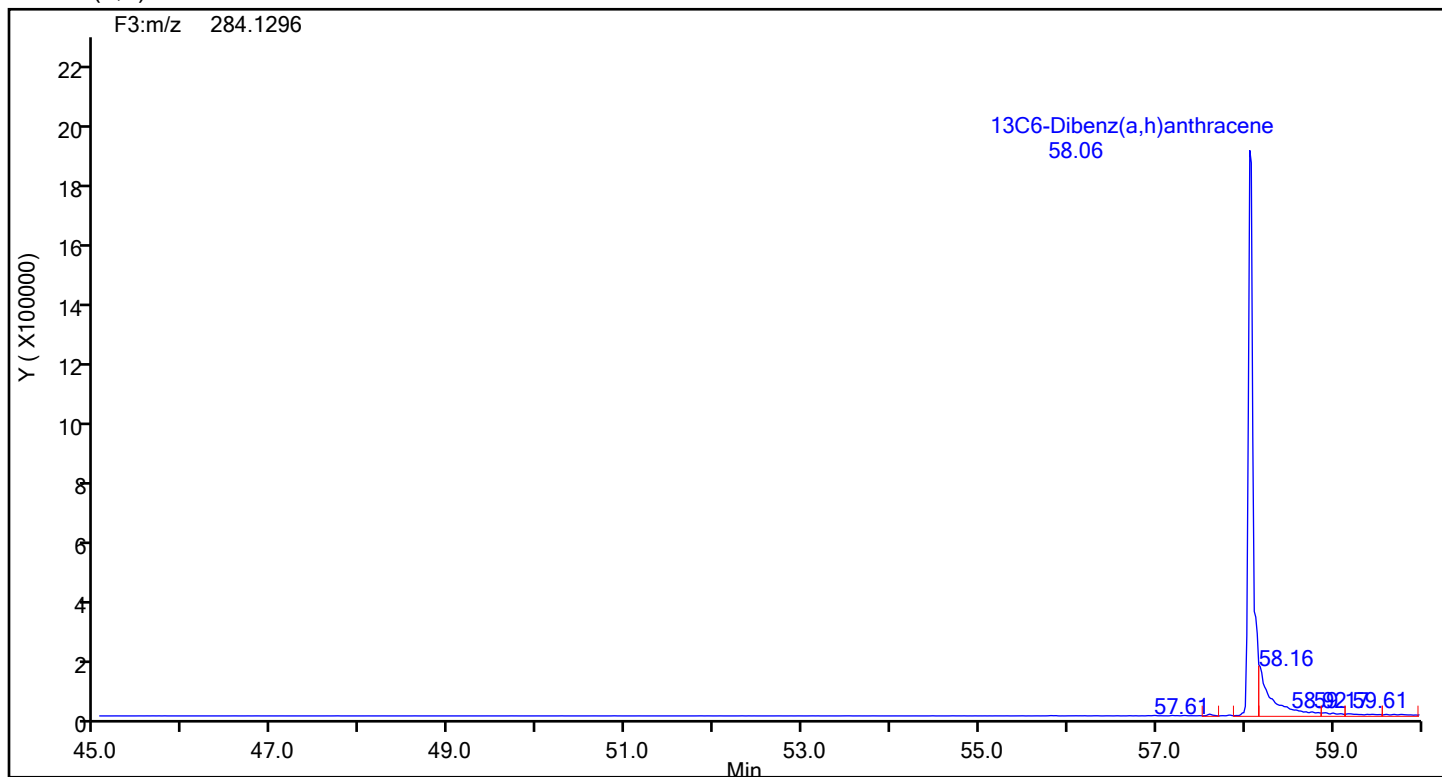
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

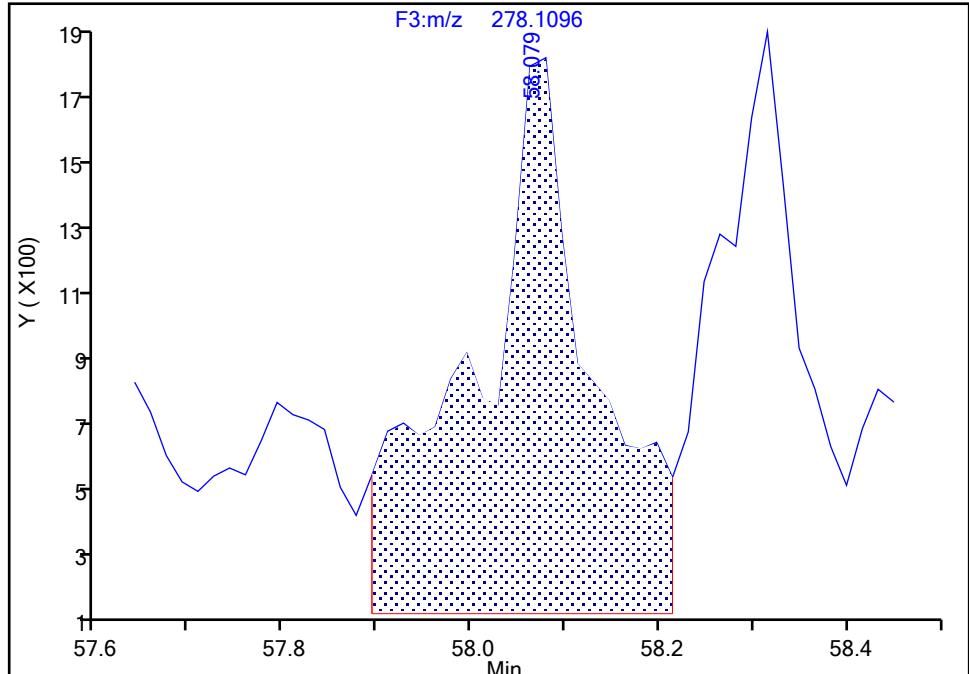
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d
Injection Date: 21-Jun-2024 06:10:00 Instrument ID: D3PAH
Lims ID: MB 140-87205/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

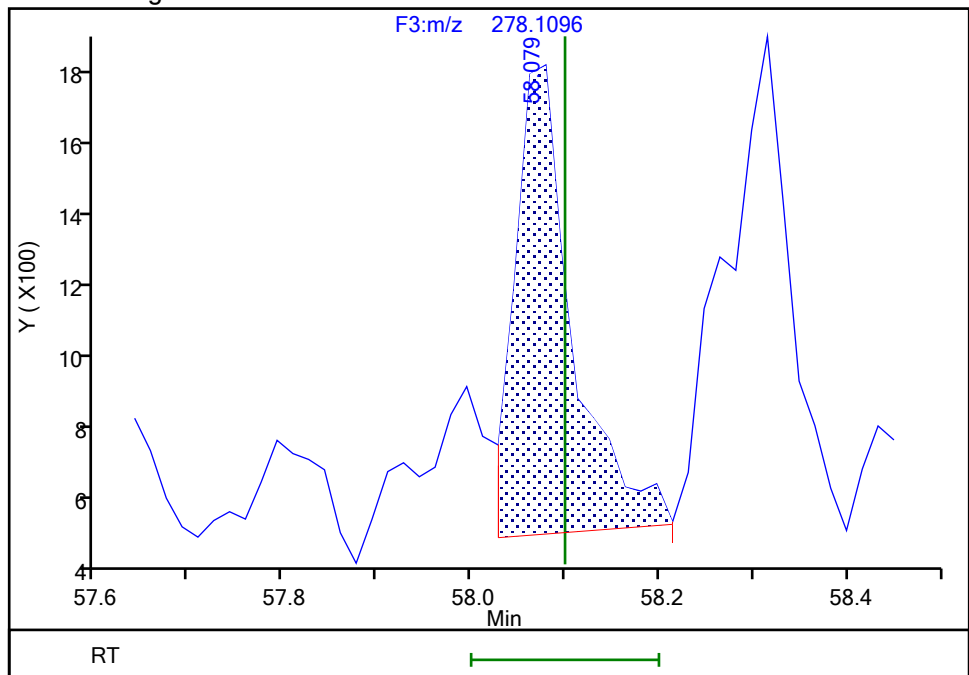
RT: 58.08
Area: 14478
Amount: 0.180393
Amount Units: pg/ul

Processing Integration Results



RT: 58.08
Area: 5518
Amount: 0.068753
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 15:18:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

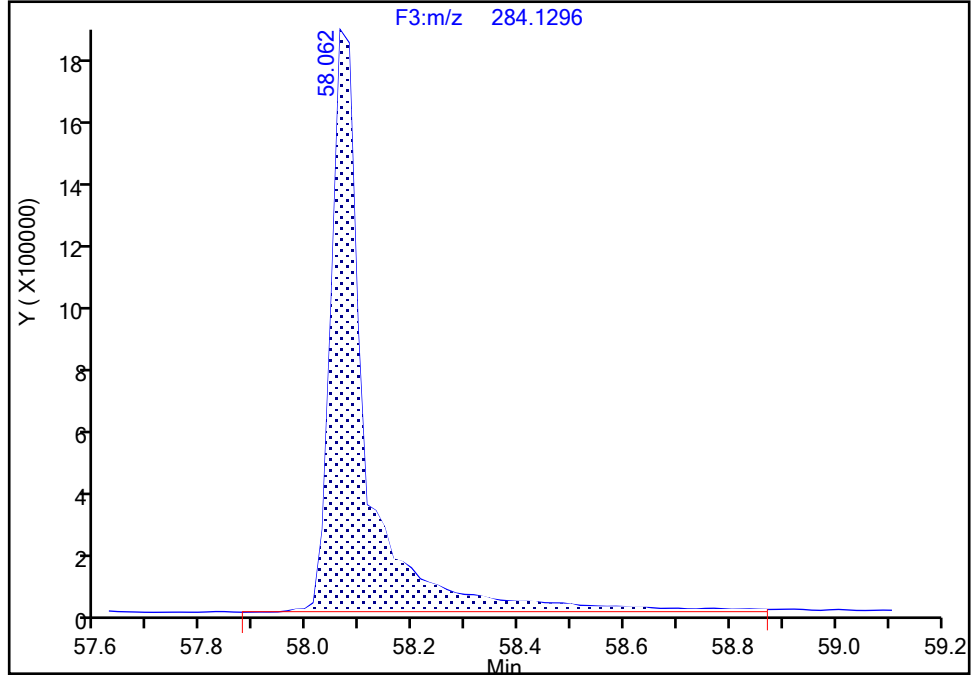
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\mb140-8720517-b.d
Injection Date: 21-Jun-2024 06:10:00 Instrument ID: D3PAH
Lims ID: MB 140-87205/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

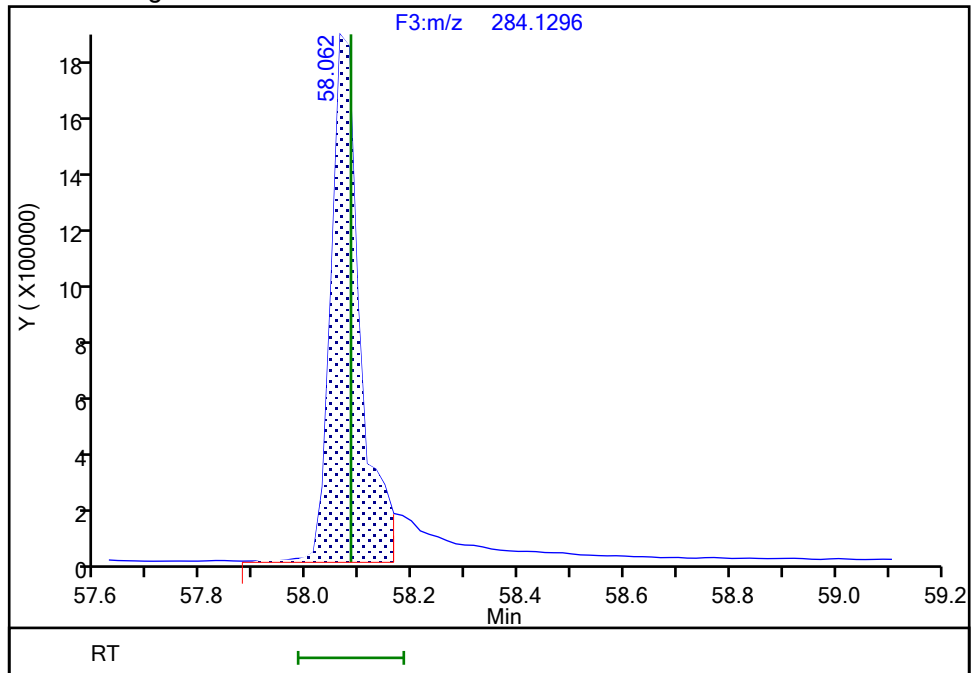
RT: 58.06
Area: 8655900
Amount: 109.9979
Amount Units: pg/ul

Processing Integration Results



RT: 58.06
Area: 7093861
Amount: 90.147761
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 15:17:48 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-87205/15-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcs140-8720515-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/21/2024 02:08</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87921</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	185.4		75.0	75.0	0.0787
91-57-6	2-Methylnaphthalene	167.9		75.0	75.0	0.0516
208-96-8	Acenaphthylene	119.0		3.00	3.00	0.0699
83-32-9	Acenaphthene	141.4		30.0	30.0	0.0684
86-73-7	Fluorene	147.0		30.0	30.0	0.0765
85-01-8	Phenanthrene	152.0		6.00	6.00	0.0828
120-12-7	Anthracene	116.5		30.0	30.0	0.0821
206-44-0	Fluoranthene	141.8		6.00	6.00	0.0292
129-00-0	Pyrene	143.4		6.00	6.00	0.0290
56-55-3	Benzo[a]anthracene	151.7		6.00	6.00	0.0764
218-01-9	Chrysene	153.2		6.00	6.00	0.0756
205-99-2	Benzo[b]fluoranthene	141.8		30.0	30.0	0.0102
207-08-9	Benzo[k]fluoranthene	142.5		6.00	6.00	0.00913
192-97-2	Benzo[e]pyrene	144.0		6.00	6.00	0.00819
50-32-8	Benzo[a]pyrene	121.4		3.00	3.00	0.00812
198-55-0	Perylene	133.1		3.00	3.00	0.00770
193-39-5	Indeno[1,2,3-cd]pyrene	139.2		3.00	3.00	0.00800
53-70-3	Dibenz(a,h)anthracene	139.3		6.00	6.00	0.00643
191-24-2	Benzo[g,h,i]perylene	134.7		6.00	6.00	0.00661

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-87205/15-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcs140-8720515-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/21/2024 02:08</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87921</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	83		20-130
STL03357	13C6-2-Methylnaphthalene	84		20-130
189811-56-1	13C6-Acenaphthylene	95		20-130
189811-57-2	13C6-Acenaphthene	91		20-130
STL00616	13C6-Fluorene	90		20-130
1397194-60-3	13C6-Fluoranthrene	88		20-130
1397214-90-2	13C3-Pyrene	87		20-130
917378-11-1	13C6-Benzo (a) anthracene	74		20-130
1397177-72-8	13C6-Chrysene	72		20-130
STL03358	13C6-Benzo (b) fluoranthene	87		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	83		20-130
STL03382	13C4-Benzo (e) pyrene	87		20-130
STL03359	13C4-Benzo (a) pyrene	88		20-130
1520-96-3	Perylene-d12	86		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	127		20-130
STL03360	13C6-Dibenz (a,h) anthracene	119		20-130
350820-11-0	13C12-Benzo (ghi) perylene	109		20-130
189811-60-7	13C6-Anthracene	98		20-130
1189955-53-0	13C6-Phenanthrene	91		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d
Lims ID: LCS 140-87205/15-B
Client ID:
Sample Type: LCS
Inject. Date: 21-Jun-2024 02:08:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033201-002
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 21-Jun-2024 15:14:34 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1637

First Level Reviewer: F9EE

Date: 21-Jun-2024 15:14:34

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	8621892		3.3746	82.7	82.7	0.0139	0.0139	82.73	
Naphthalene	11:32	13740363		1.2893	123.6	123.6	0.0525	0.0525	124	
D 13C6-2-Methylnaphthalene	13:52	4139929		1.6031	83.6	83.6	0.007586	0.007586	83.63	
2-Methylnaphthalene	13:52	5923204		1.2786	111.9	111.9	0.0344	0.0344	112	
D 13C6-Acenaphthylene	16:45	4841701		1.6520	94.9	94.9	0.0177	0.0177	94.90	
Acenaphthylene	16:45	5178869		2.3661	79.4	79.4	0.0466	0.0466	79.35	
* Acenaphthene-d10	17:20	1544104		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:27	2758282		0.9792	91.2	91.2	0.0212	0.0212	91.22	
Acenaphthene	17:27	3302123		1.2697	94.3	94.3	0.0456	0.0456	94.29	
Fluorene	19:45	3022181		1.2532	98.0	98.0	0.0510	0.0510	98.01	
D 13C6-Fluorene	19:44	2460695		0.8898	89.5	89.5	0.0215	0.0215	89.55	
D 13C6-Phenanthrene	25:08	4036724		0.5724	91.3	91.3	0.0152	0.0152	91.29	
Phenanthrene	25:08	4517656		1.1044	101.3	101.3	0.0552	0.0552	101	
D 13C6-Anthracene	25:27	3428861		0.4523	98.1	98.1	0.0192	0.0192	98.13	
Anthracene	25:28	3617161		1.3586	77.6	77.6	0.0547	0.0547	77.65	
D 13C6-Fluoranthrene	33:53	8169405		1.1994	88.2	88.2	0.0174	0.0174	88.17	
Fluoranthene	33:53	8890968		1.1513	94.5	94.5	0.0195	0.0195	94.53	
* Pyrene-d10	35:25	3862412		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:34	9115004		1.3512	87.3	87.3	0.0153	0.0153	87.33	
Pyrene	35:34	9283949		1.0652	95.6	95.6	0.0193	0.0193	95.62	
D 13C6-Benzo(a)anthracene	46:06	9099954		1.5189	73.6	73.6	0.0145	0.0145	73.57	
Benzo[a]anthracene	46:06	8962878		0.9739	101.1	101.1	0.0509	0.0509	101	
D 13C6-Chrysene	46:22	9569526		1.6287	72.2	72.2	0.0135	0.0135	72.15	
Chrysene	46:23	9595214		0.9815	102.2	102.2	0.0504	0.0504	102	
D 13C6-Benzo(b)fluoranthene	54:39	10313840		1.4621	86.6	86.6	0.004648	0.004648	86.63	
Benzo[b]fluoranthene	54:39	10964444		1.1249	94.5	94.5	0.006832	0.006832	94.50	
D 13C6-Benzo(k)fluoranthene	54:46	11794037		1.7507	82.7	82.7	0.003882	0.003882	82.73	
Benzo[k]fluoranthene	54:46	12624221		1.1271	95.0	95.0	0.006088	0.006088	94.97	
* Benzo(e)pyrene-d12	55:30	4071633		5.7E+04	50.0	50.0				
D 13C4-Benzo(e)pyrene	55:35	11607125		1.6368	87.1	87.1	0.0127	0.0127	87.08	
Benzo[e]pyrene	55:35	11156972		1.0013	96.0	96.0	0.005460	0.005460	96.00	
Benzo[a]pyrene	55:43	10021335		1.1130	81.0	81.0	0.005412	0.005412	80.97	
D 13C4-Benzo(a)pyrene	55:43	11120251		1.5508	88.1	88.1	0.0134	0.0134	88.06	
D Perylene-d12	55:53	8372864		1.1917	86.3	86.3	0.0162	0.0162	86.28	
Perylene	55:57	10631696		1.4307	88.8	88.8	0.005133	0.005133	88.75	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	10563516		1.0218	126.9	126.9	0.0108	0.0108	127	
Indeno[1,2,3-cd]pyrene	58:02	11026488		1.1249	92.8	92.8	0.005333	0.005333	92.79	
D 13C6-Dibenz(a,h)anthracene	58:06	10189549		1.0553	118.6	118.6	0.008954	0.008954	119	M
Dibenz(a,h)anthracene	58:06	10707692		1.1314	92.9	92.9	0.004285	0.004285	92.88	M
D 13C12-Benzo(ghi)perylene	58:30	11278071		1.2749	108.6	108.6	0.004703	0.004703	109	M
Benzo[g,h,i]perylene	58:31	13002459		1.2838	89.8	89.8	0.004408	0.004408	89.81	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d
Lims ID: LCS 140-87205/15-B
Client ID:
Sample Type: LCS
Inject. Date: 21-Jun-2024 02:08:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033201-002
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 21-Jun-2024 15:14:34 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1637

First Level Reviewer: F9EE

Date: 21-Jun-2024 15:14:34

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:32	-2	0.665	8621892	2853472	209	522	13653		
Naphthalene											
128.0626	11:32	11:31	-2	1.000	13740363	4580862	772	1930	5934		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	-1	0.800	4139929	1869674	54	135	34624		
2-Methylnaphthalene											
142.0783	13:52	13:52	0	1.001	5923204	2754901	329	822	8374		
13C6-Acenaphthylene											
158.0828	16:45	16:44	0	0.966	4841701	1734548	130	325	13343		
Acenaphthylene											
152.0626	16:45	16:45	0	1.000	5178869	1868621	419	1047	4460		
Acenaphthene-d10											
164.1404	17:20	17:20	0		1544104	555085	62	155	8953		
13C6-Acenaphthene											
160.0984	17:27	17:26	0	1.007	2758282	950098	92	230	10327		
Acenaphthene											
154.0783	17:27	17:27	0	1.001	3302123	1142534	220	550	5193		
Fluorene											
166.0783	19:45	19:43	0	1.001	3022181	920661	198	495	4650		
13C6-Fluorene											
172.0984	19:44	19:43	0	1.139	2460695	774667	85	212	9114		
13C6-Phenanthrene											
184.0984	25:08	25:07	0	0.709	4036724	976195	53	132	18419		
Phenanthrene											
178.0783	25:08	25:08	0	1.000	4517656	1065866	238	595	4478		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Anthracene											
184.0984	25:27	25:27	0	0.718	3428861	800108	53	132	15096		
Anthracene											
178.0783	25:28	25:27	0	1.000	3617161	857801	238	595	3604		
13C6-Fluoranthrene											
208.0984	33:53	33:52	0	0.956	8169405	1629063	127	317	12827		
Fluoranthene											
202.0783	33:53	33:52	0	1.000	8890968	1752777	146	365	12005		
Pyrene-d10											
212.1404	35:25	35:26	-1		3862412	760653	54	135	14086		
13C3-Pyrene											
205.0883	35:34	35:33	0	1.004	9115004	1774997	126	315	14087		
Pyrene											
202.0783	35:34	35:34	-1	1.000	9283949	1786083	146	365	12233		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:05	0	1.301	9099954	1663300	243	607	6845		
Benzo[a]anthracene											
228.0939	46:06	46:05	0	1.000	8962878	1600411	330	825	4850		
13C6-Chrysene											
234.1140	46:22	46:21	0	1.309	9569526	1668330	243	607	6866		
Chrysene											
228.0939	46:23	46:22	1	1.000	9595214	1650803	330	825	5002		
13C6-Benzo(b)fluoranthene											
258.1140	54:39	54:38	1	0.985	10313840	2797377	75	187	37298		
Benzo[b]fluoranthene											
252.0939	54:39	54:39	0	1.000	10964444	3170477	86	215	36866		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:46	0	0.987	11794037	3133392	75	187	41779		
Benzo[k]fluoranthene											
252.0939	54:46	54:45	0	1.000	12624221	3261317	86	215	37922		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	0		4071633	1375838	212	530	6490		
13C4-Benzo(e)pyrene											
256.1073	55:35	55:34	1	1.002	11607125	3932487	229	572	17172		
Benzo[e]pyrene											
252.0939	55:35	55:36	0	1.000	11156972	3850552	86	215	44774		
Benzo[a]pyrene											
252.0939	55:43	55:43	0	1.000	10021335	3324892	86	215	38662		
13C4-Benzo(a)pyrene											
256.1073	55:43	55:43	0	1.004	11120251	3568966	229	572	15585		
Perylene-d12											
264.1692	55:53	55:53	0	1.007	8372864	2927685	212	530	13810		
Perylene											
252.0939	55:57	55:57	0	1.001	10631696	3692434	86	215	42935		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:01	0	1.046	10563516	3416867	122	305	28007		E

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Indeno[1,2,3-cd]pyrene											
276.0939	58:02	58:01	1	1.000	11026488	3625042	82	205	44208		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:06	1	1.047	10189549	3341641	104	260	32131		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:06	0	1.000	10707692	3535497	65	162	54392		EM
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	11278071	3622892	66	165	54892		M
Benzo[g,h,i]perylene											
276.0939	58:31	58:31	1	1.000	13002459	4040003	82	205	49268		EM

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

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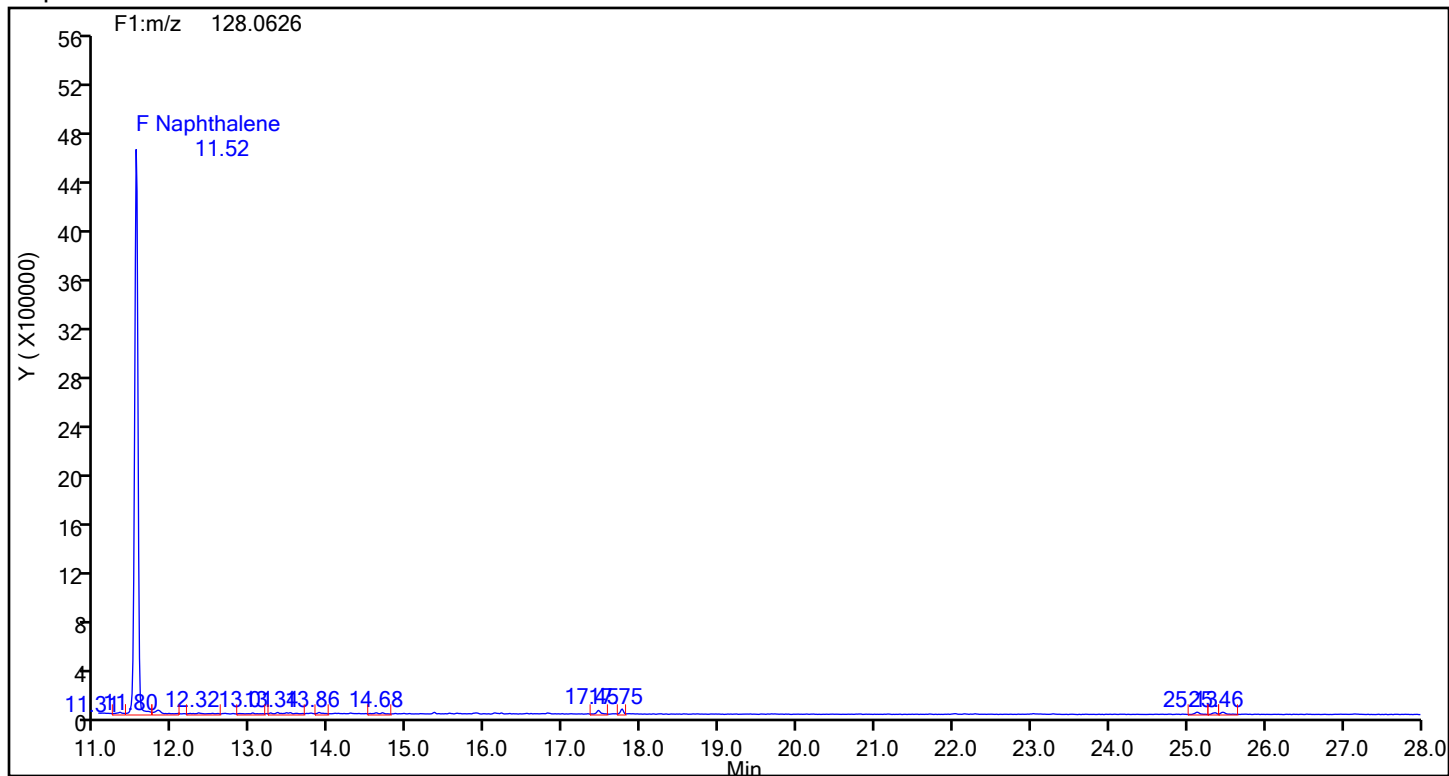
Worklist#: 87921

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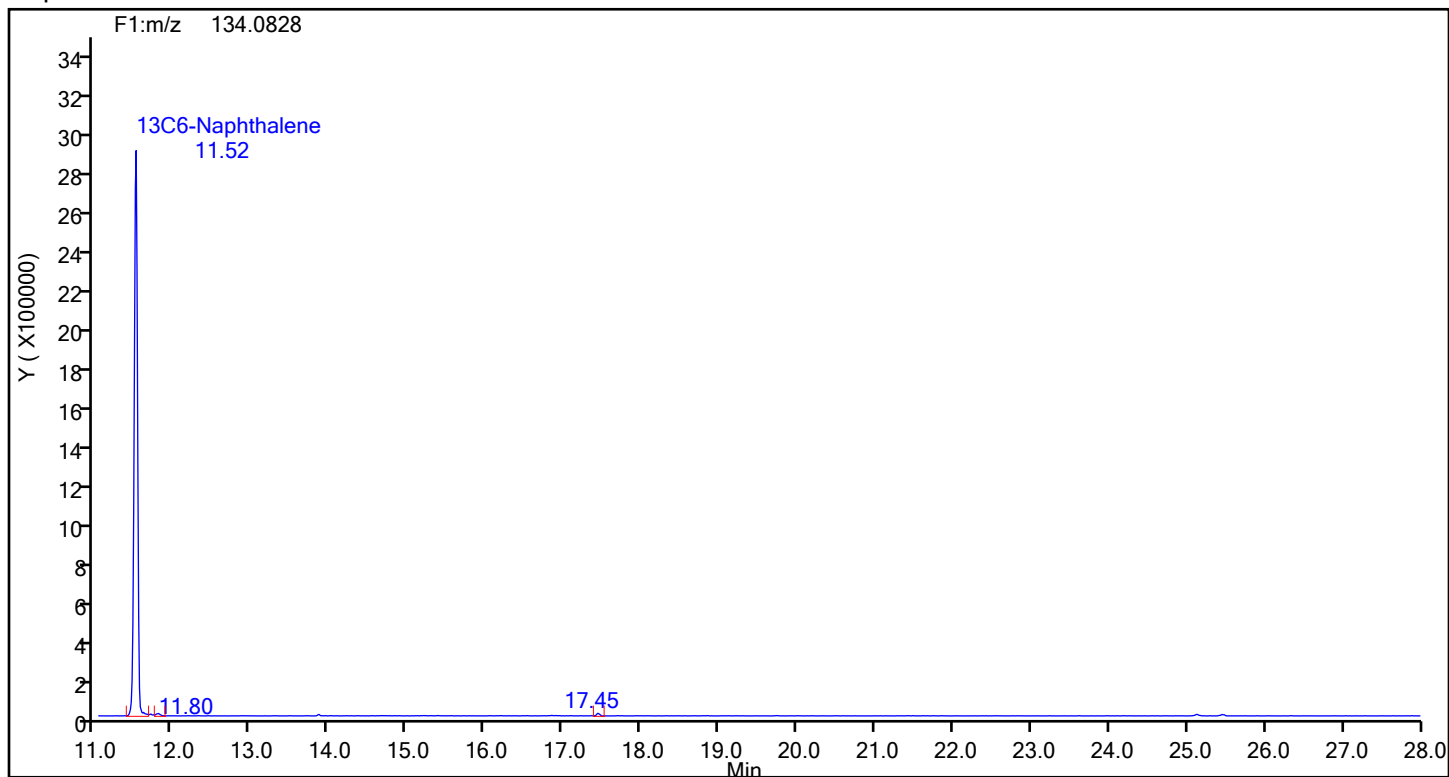
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Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

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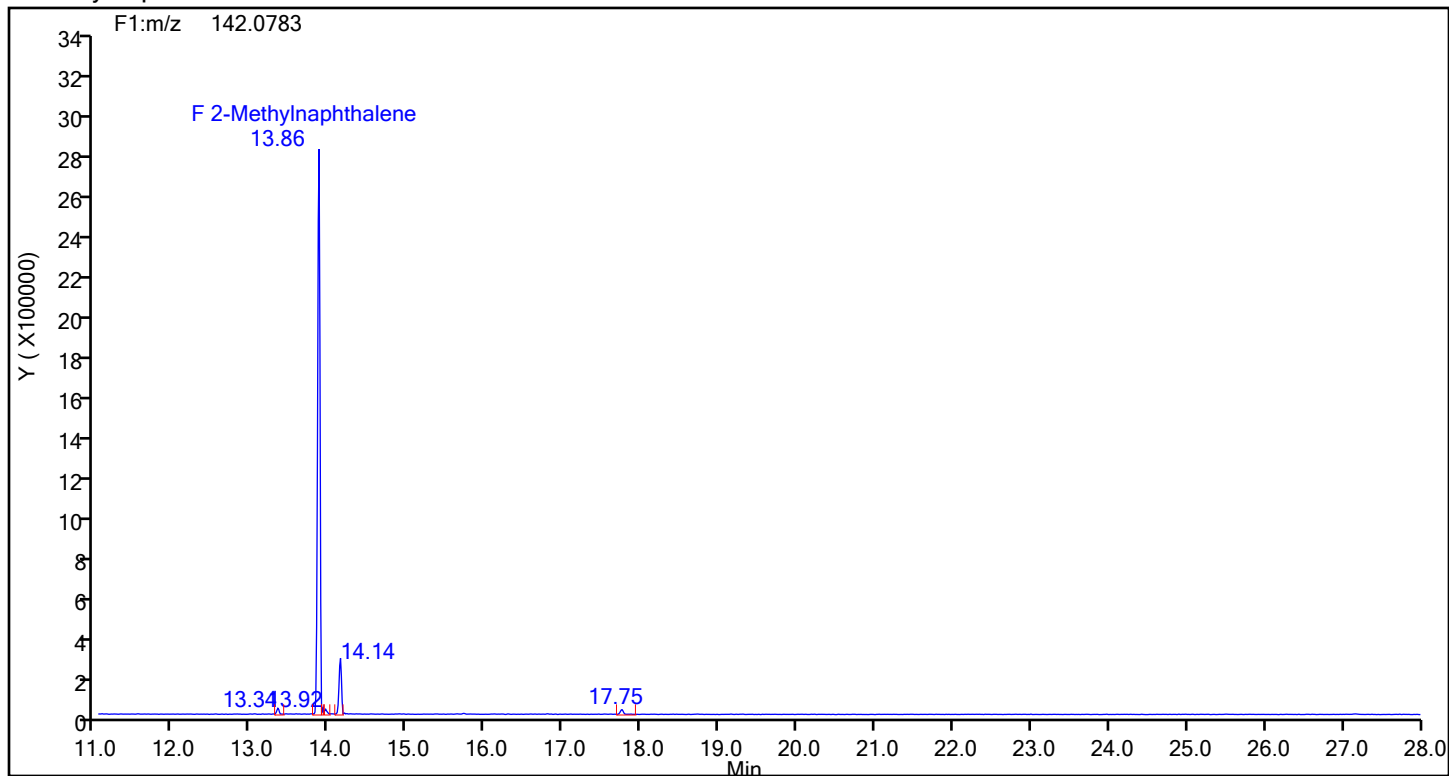
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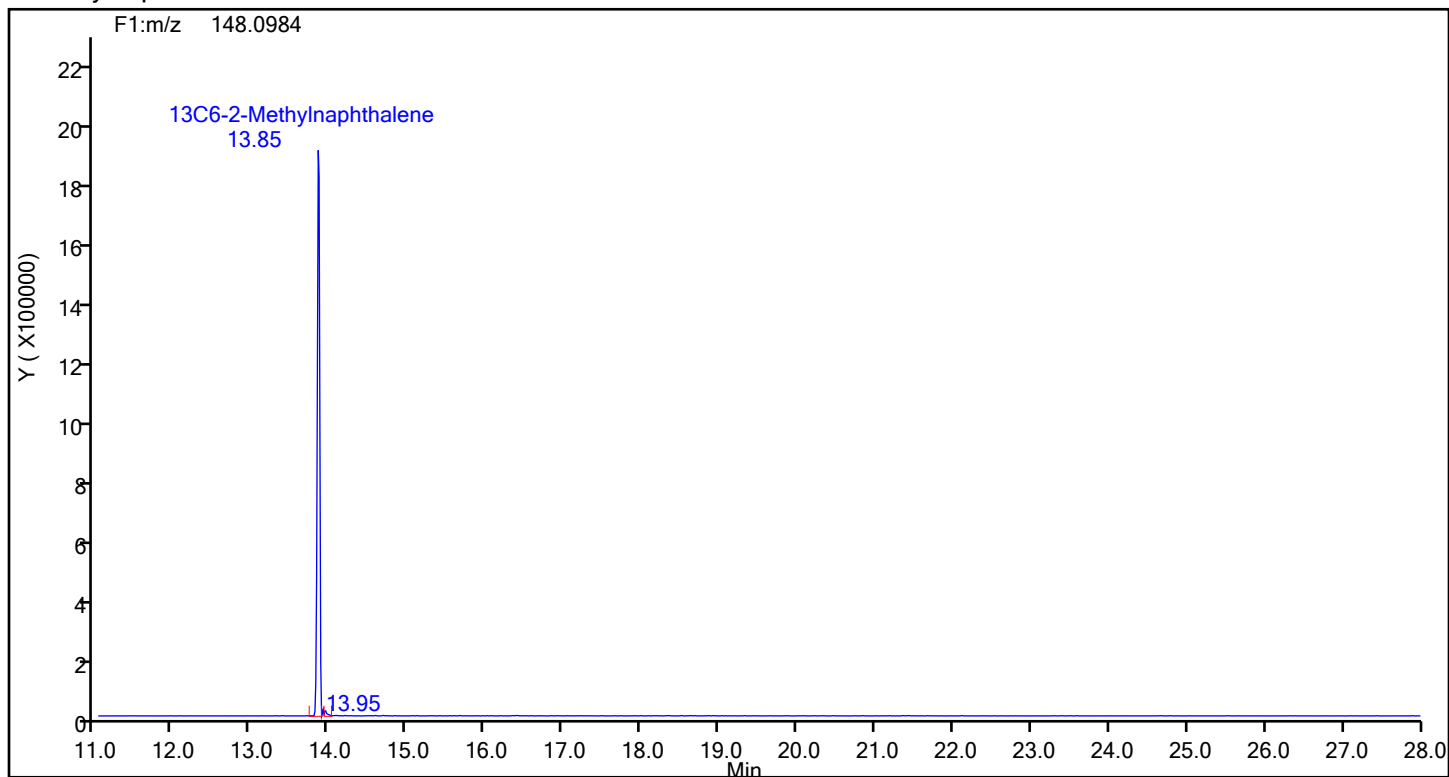
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Column Dia: 0.25 mm

2-Methylnaphthalene



2-Methylnaphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

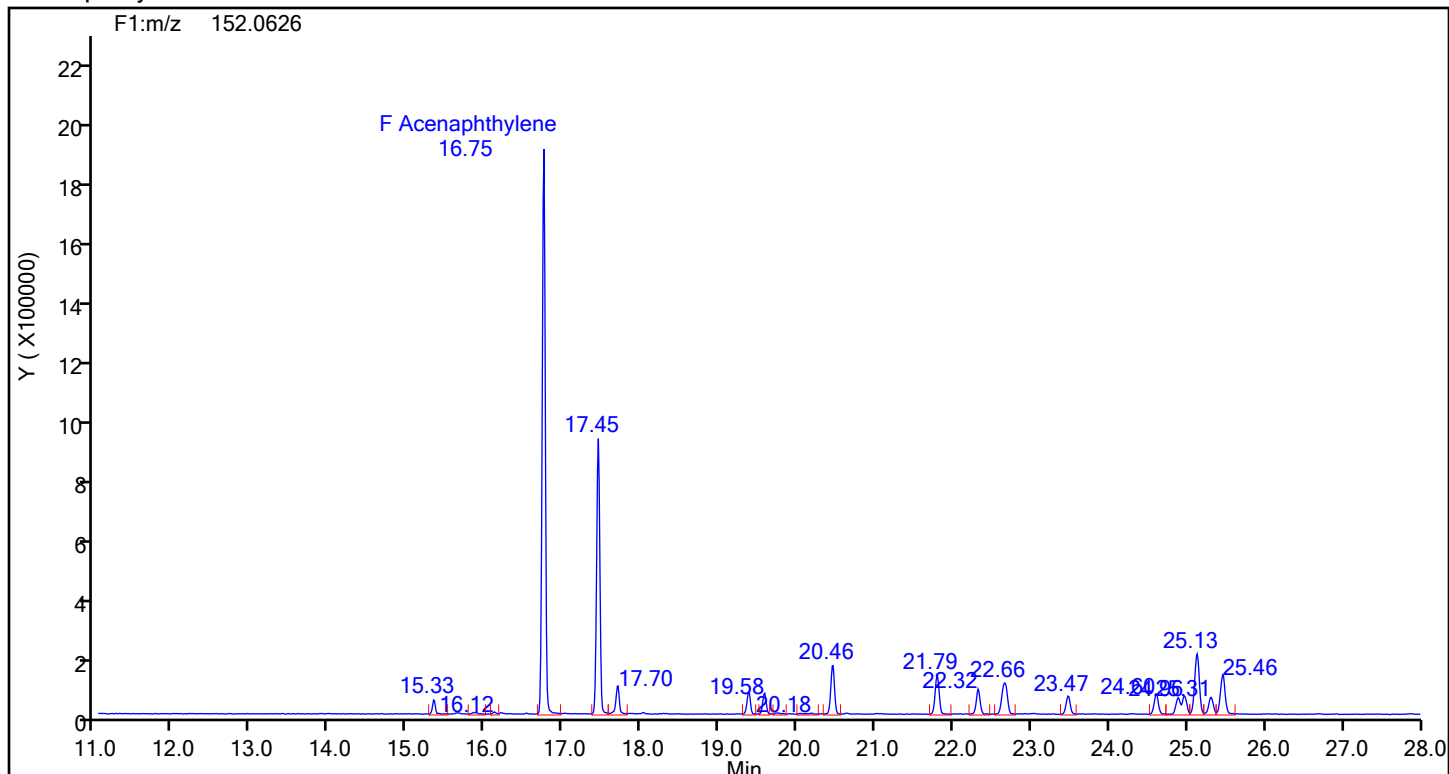
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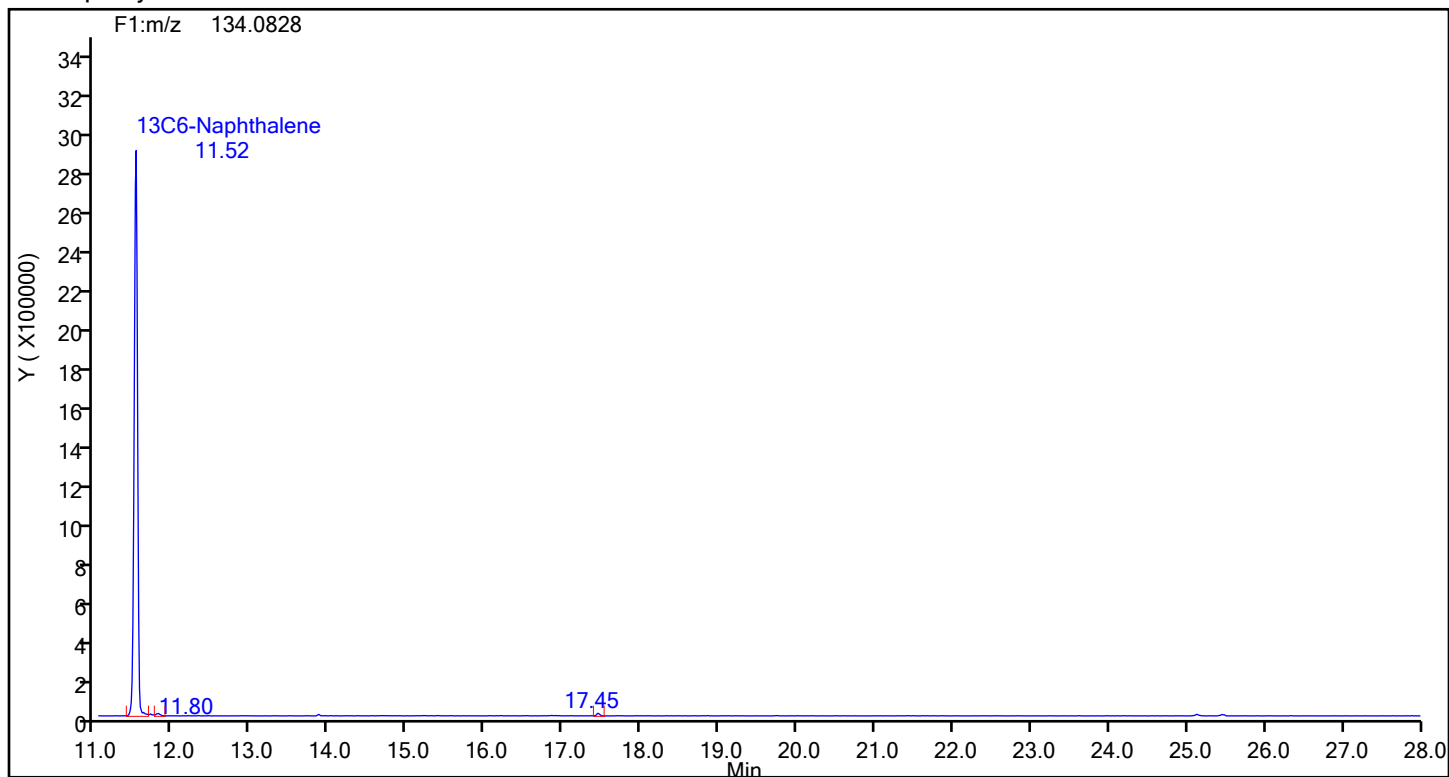
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

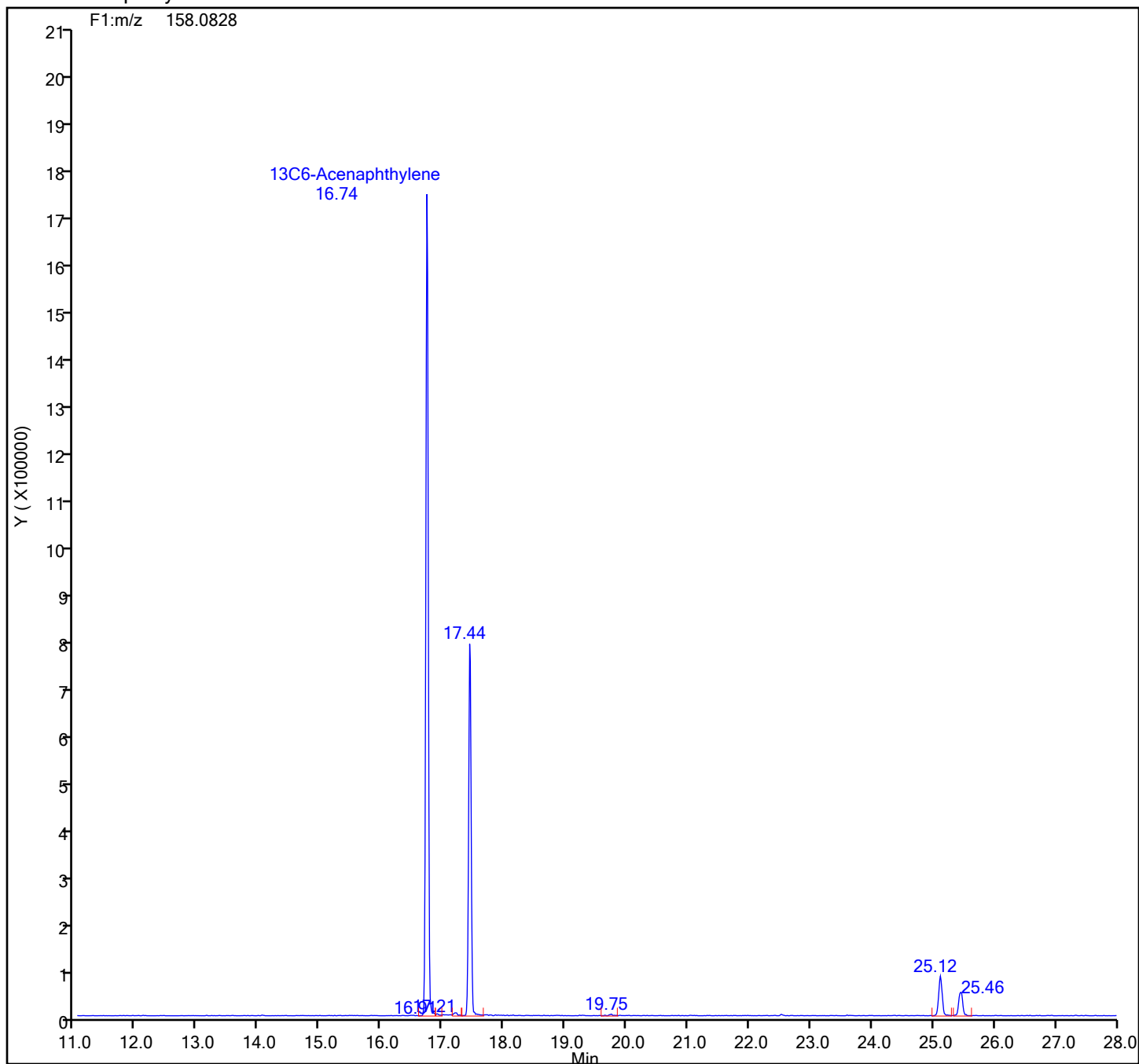
Worklist#: 87921

Sample Line#: 2

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Acenaphthylene Standards



Eurofins Knoxville

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Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

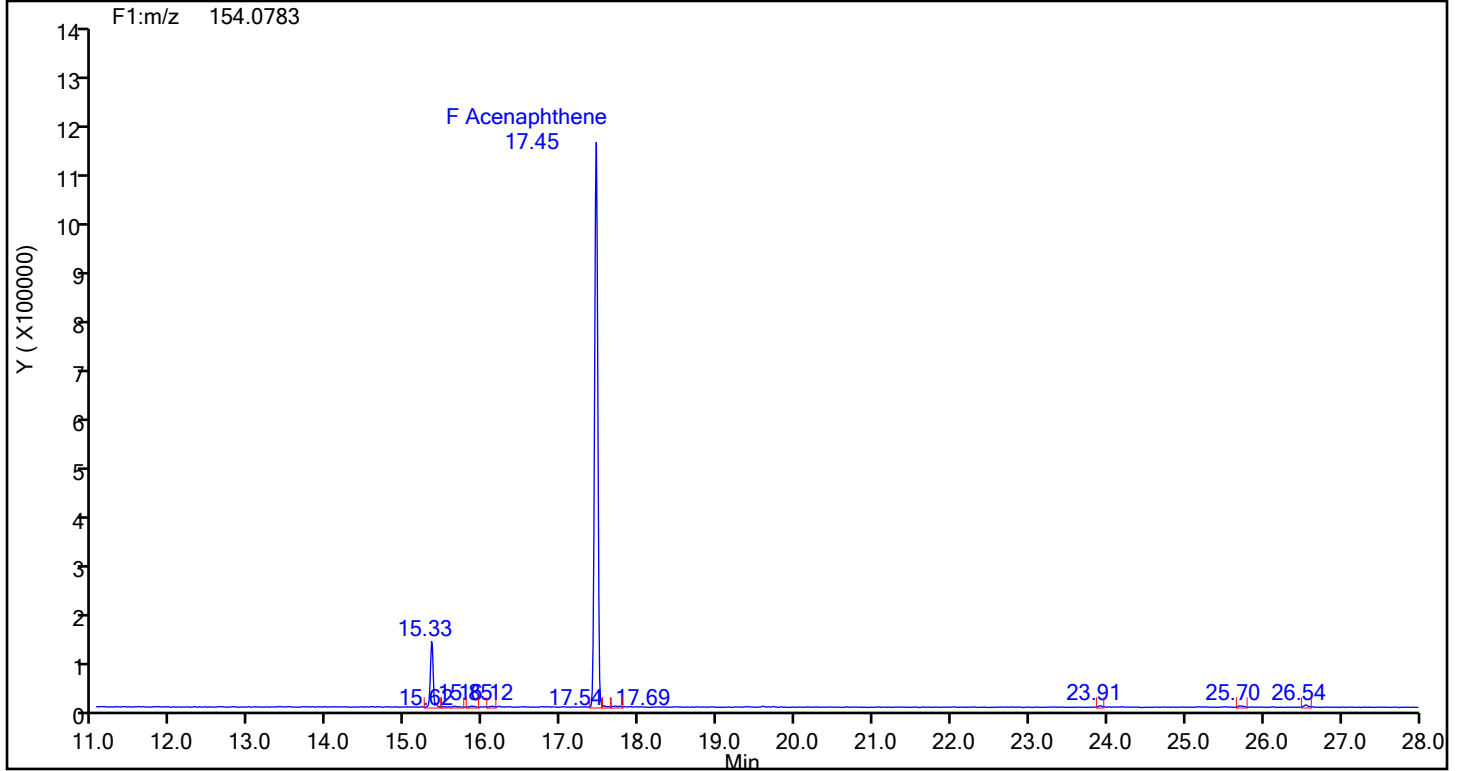
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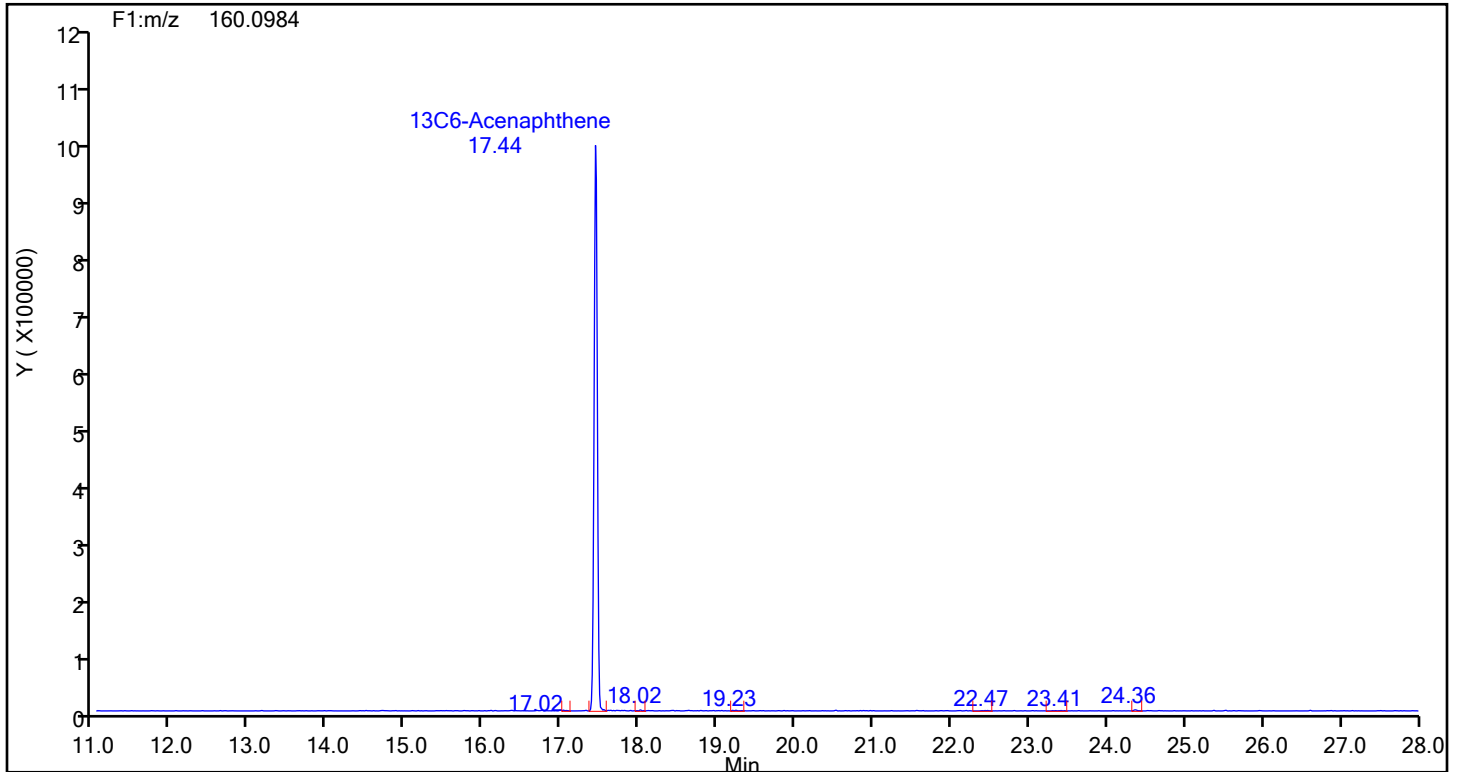
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Column Dia: 0.25 mm

Acenaphthene



Acenaphthene Standards



Eurofins Knoxville

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Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

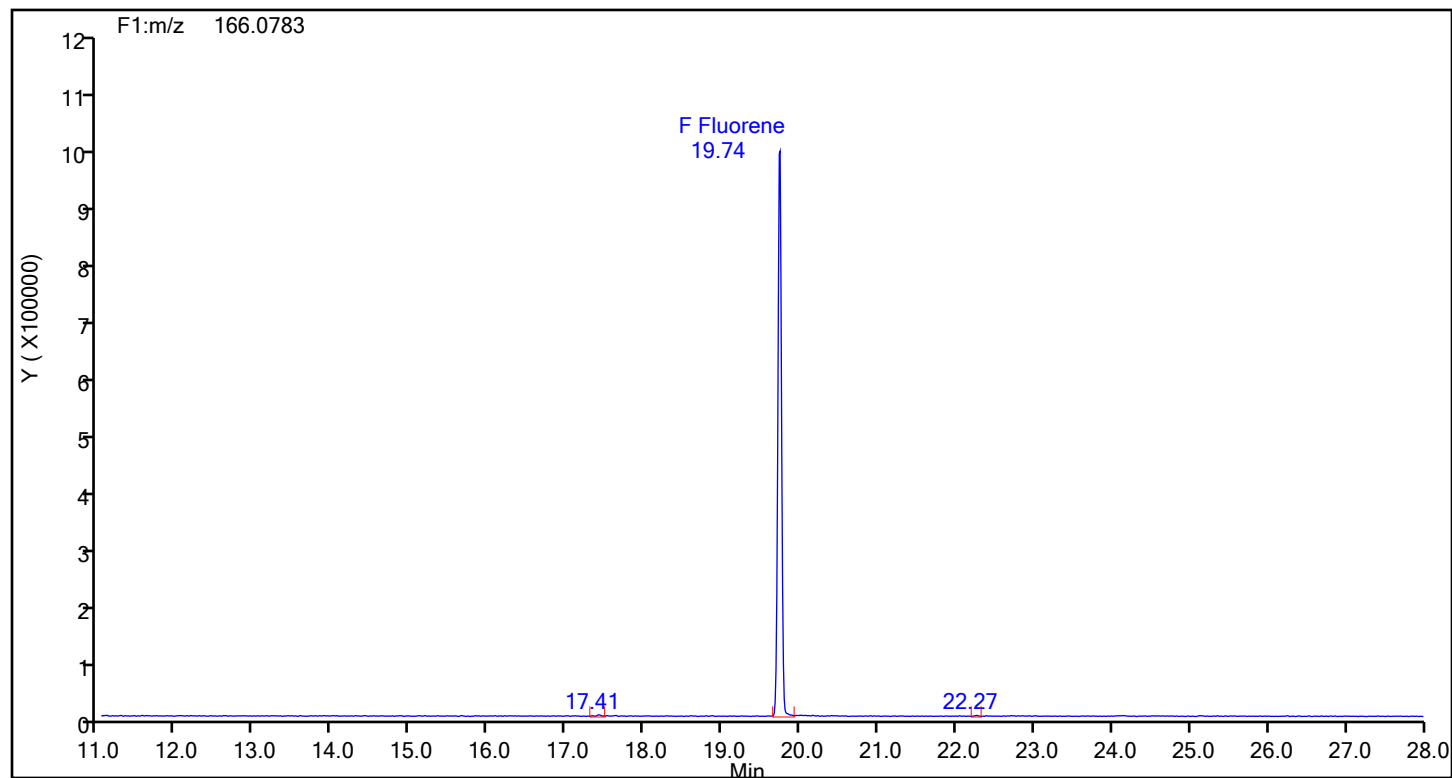
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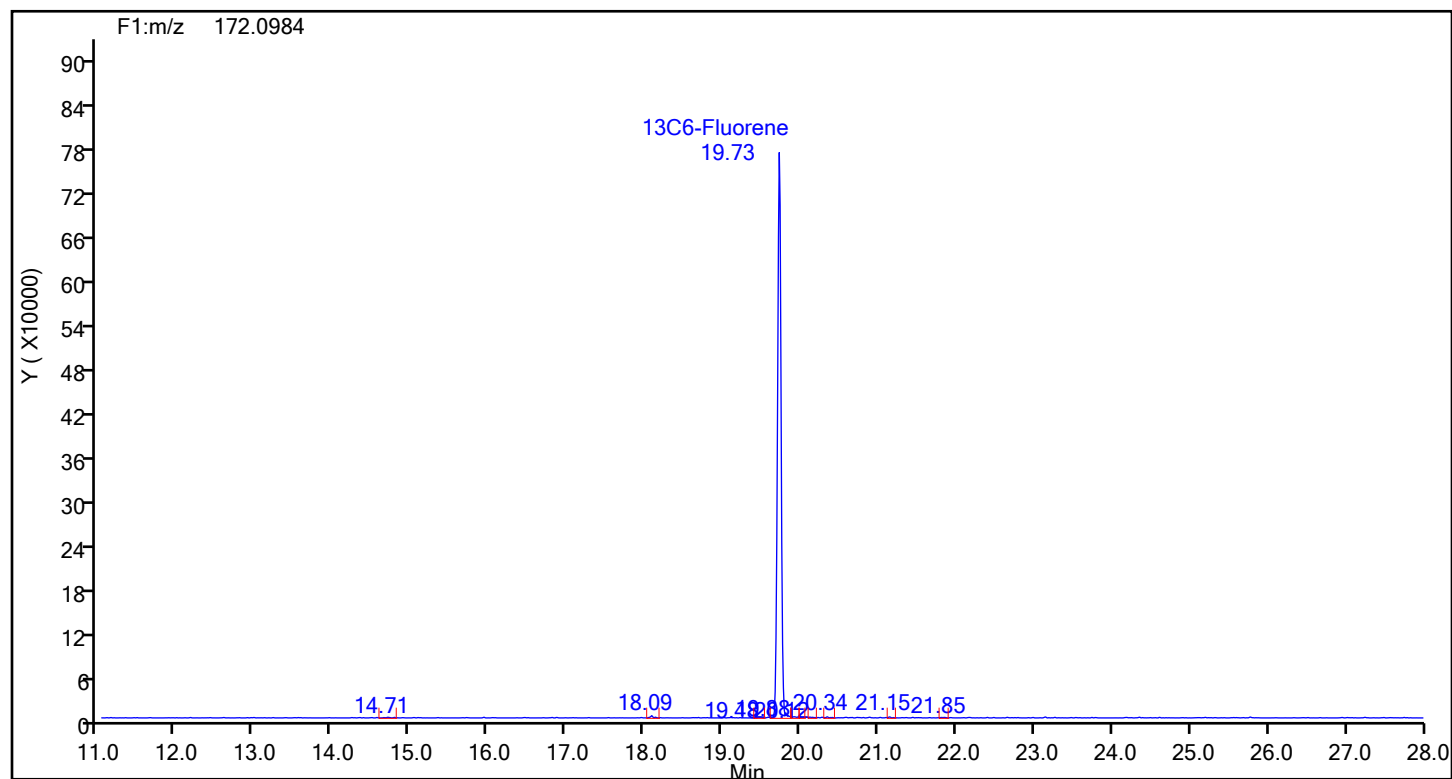
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Column Dia: 0.25 mm

Fluorene



Fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

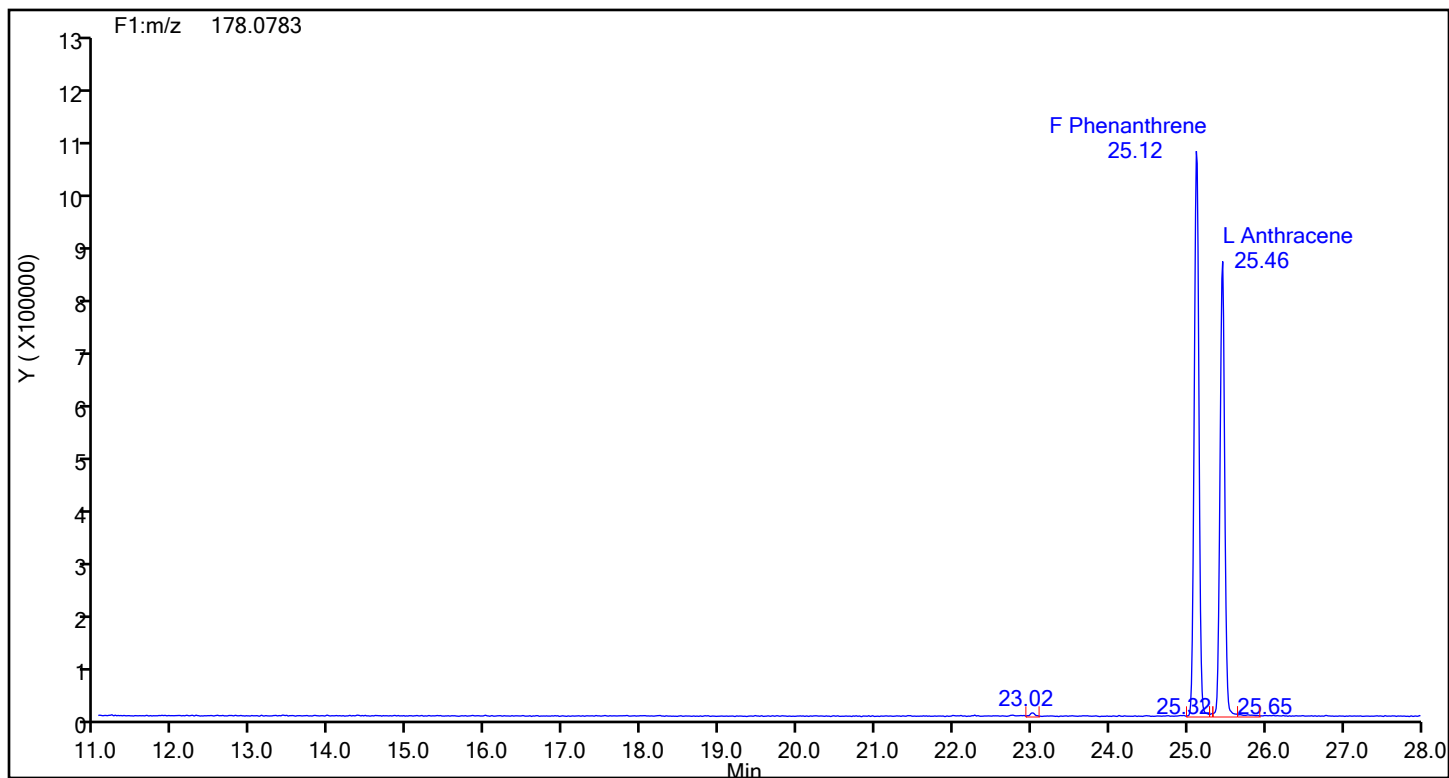
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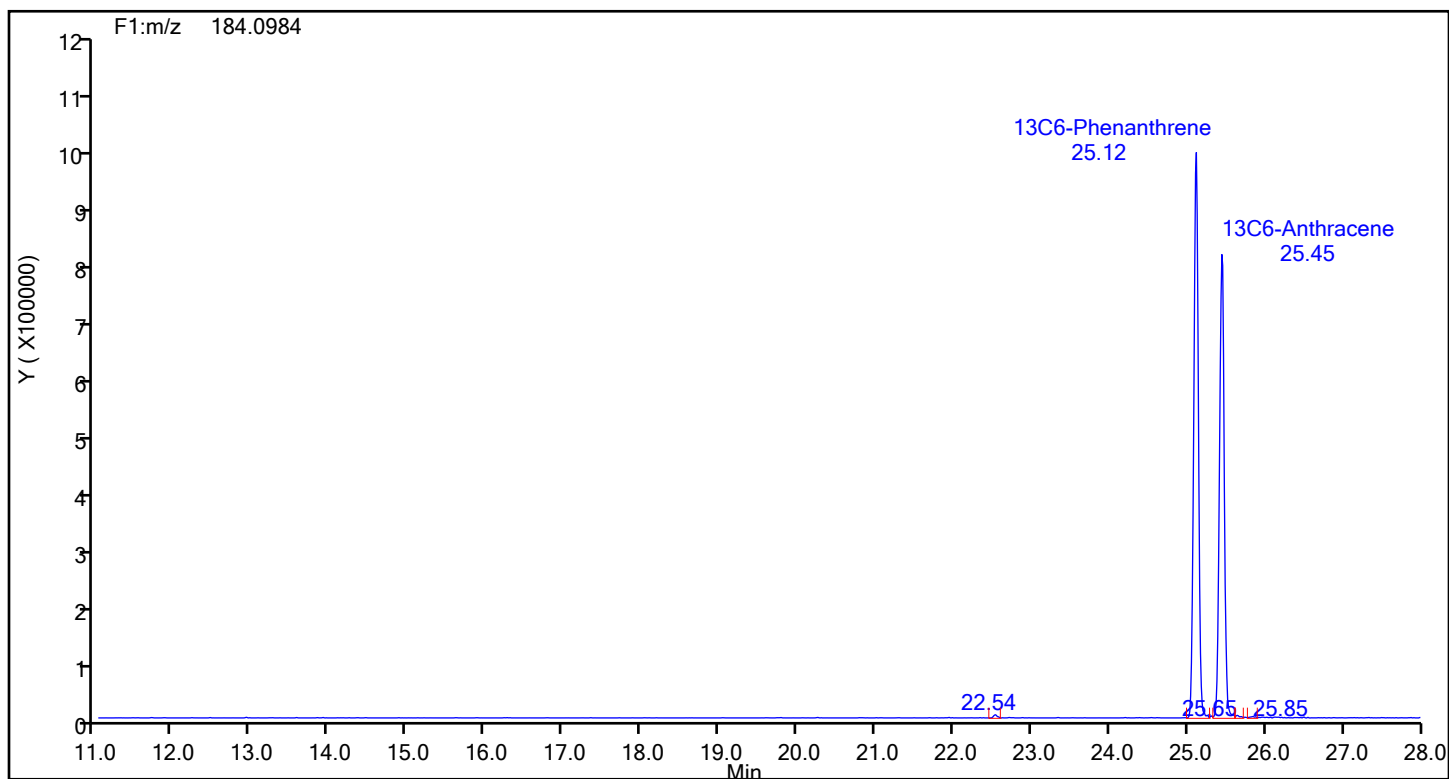
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Phenanthrene



Phenanthrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

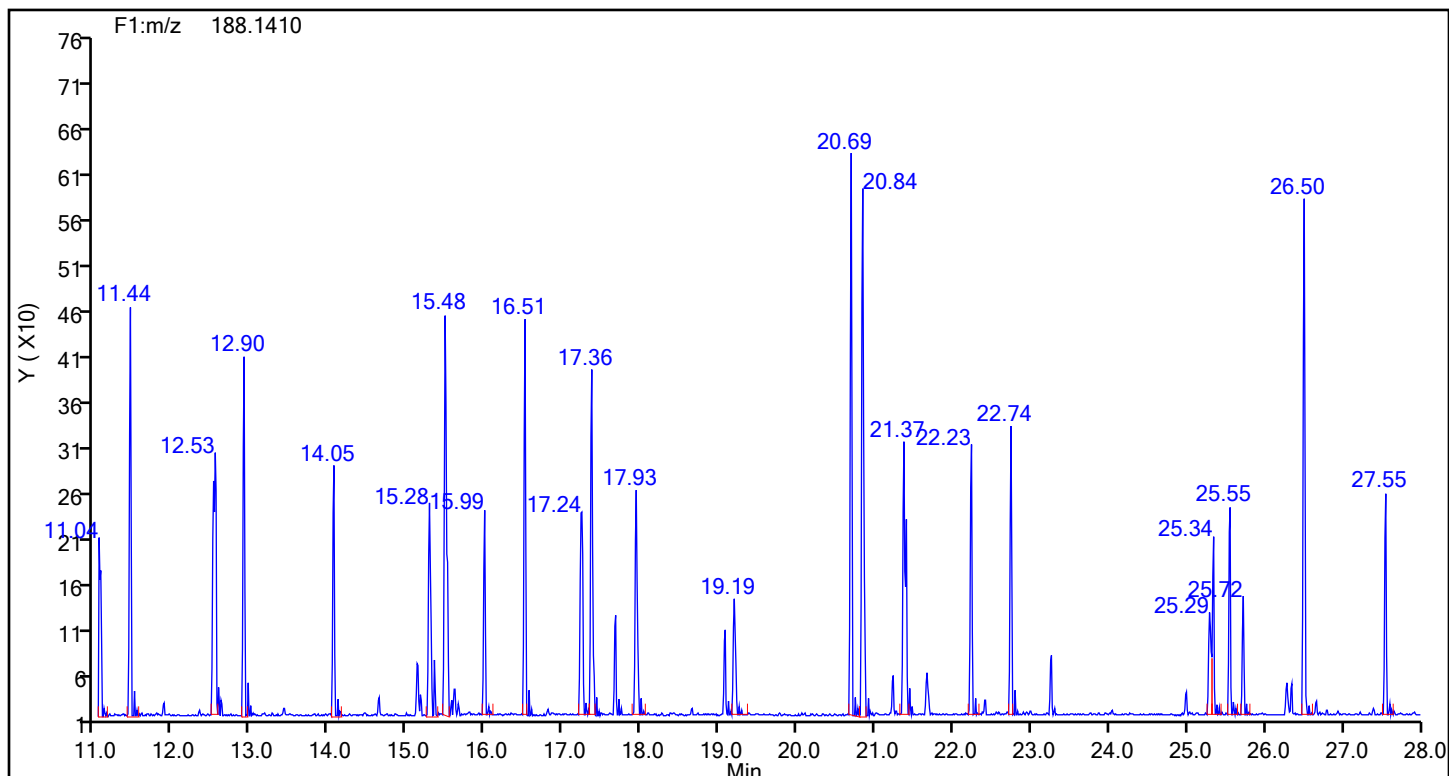
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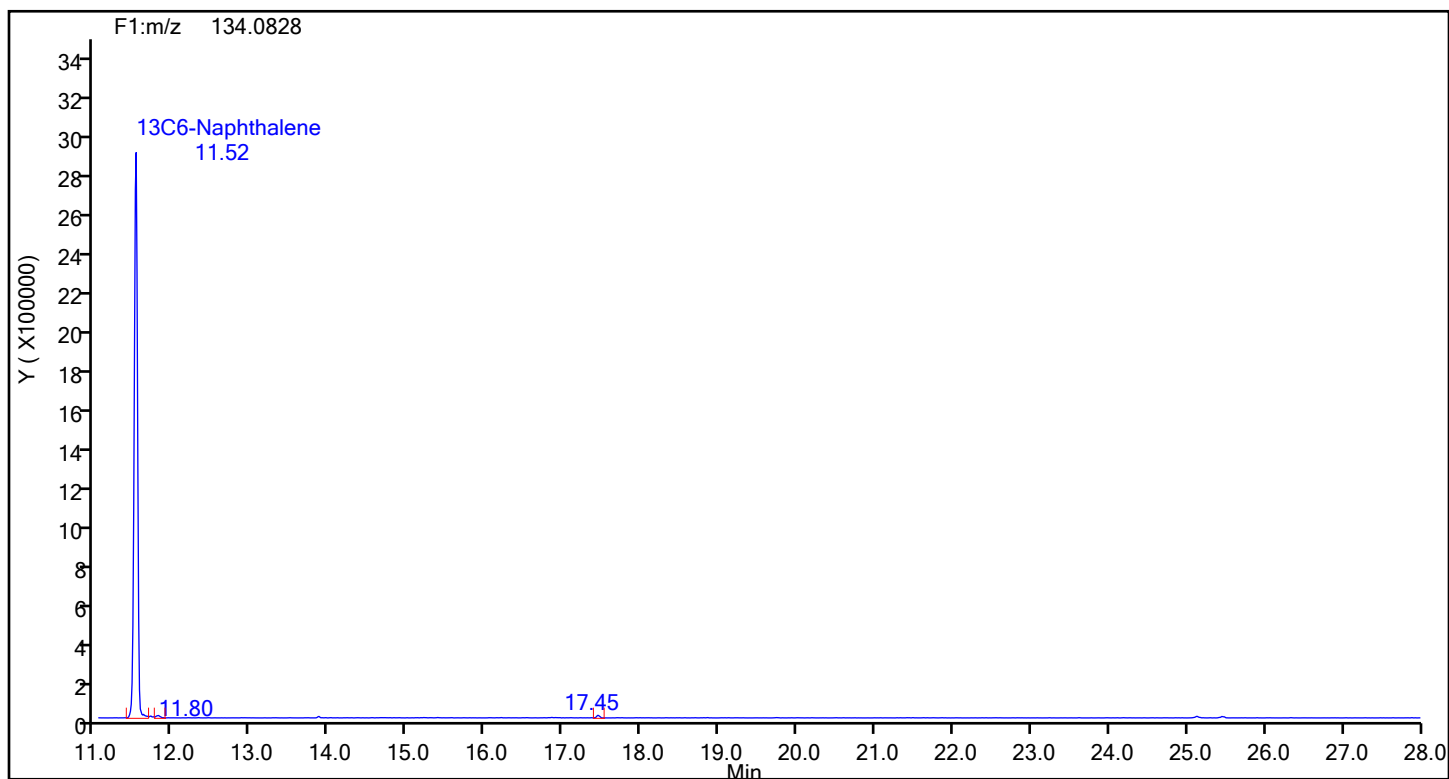
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Anthracin-d10



Anthracin-d10 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

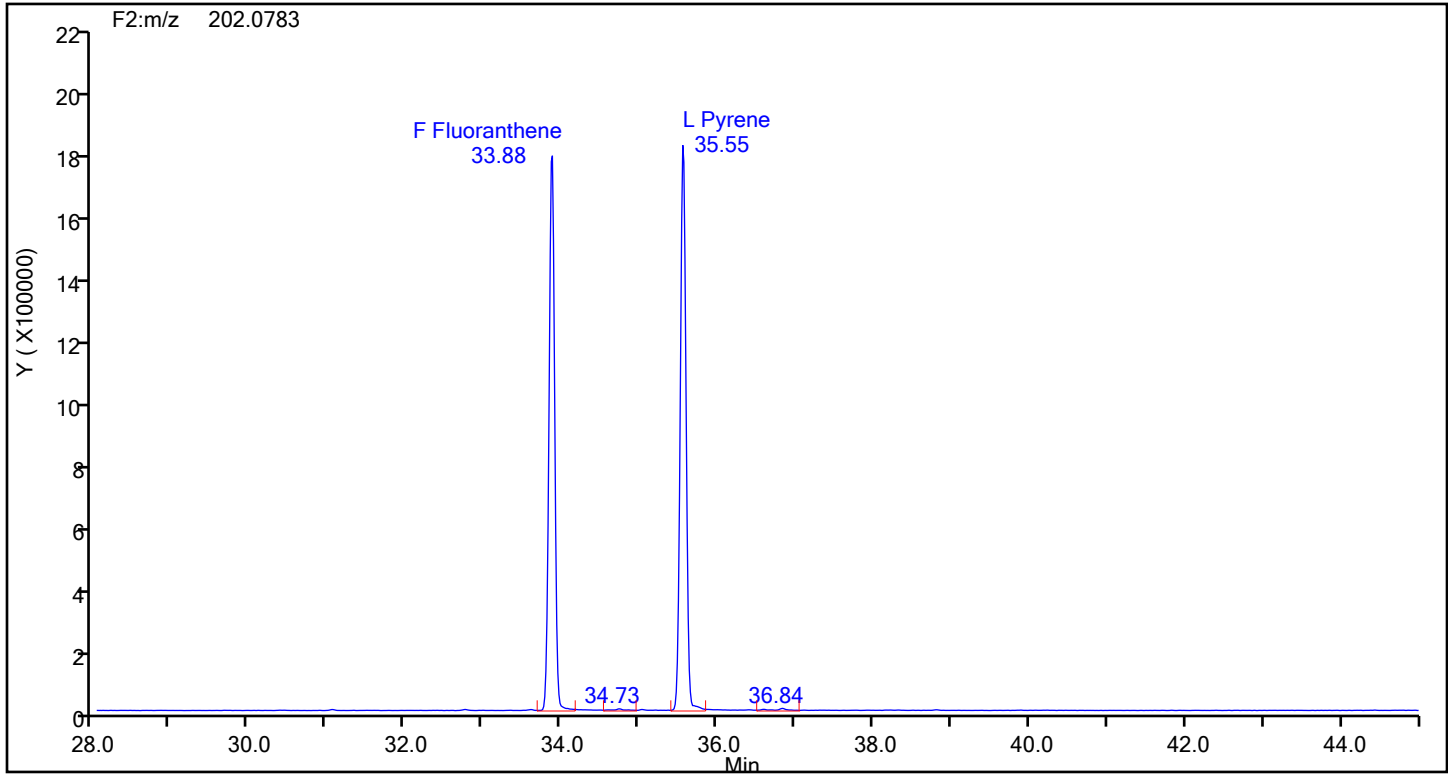
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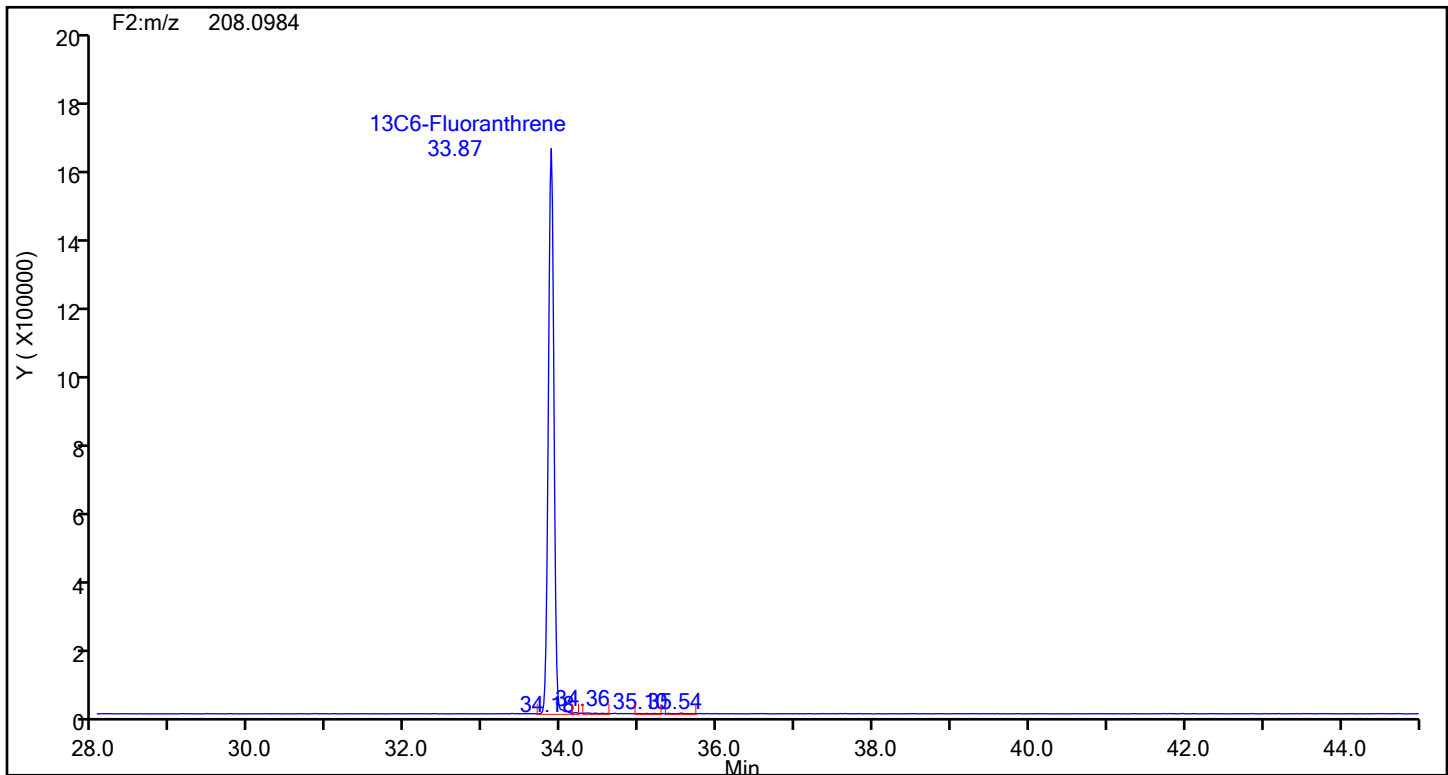
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Column Dia: 0.25 mm

Fluoranthene



Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

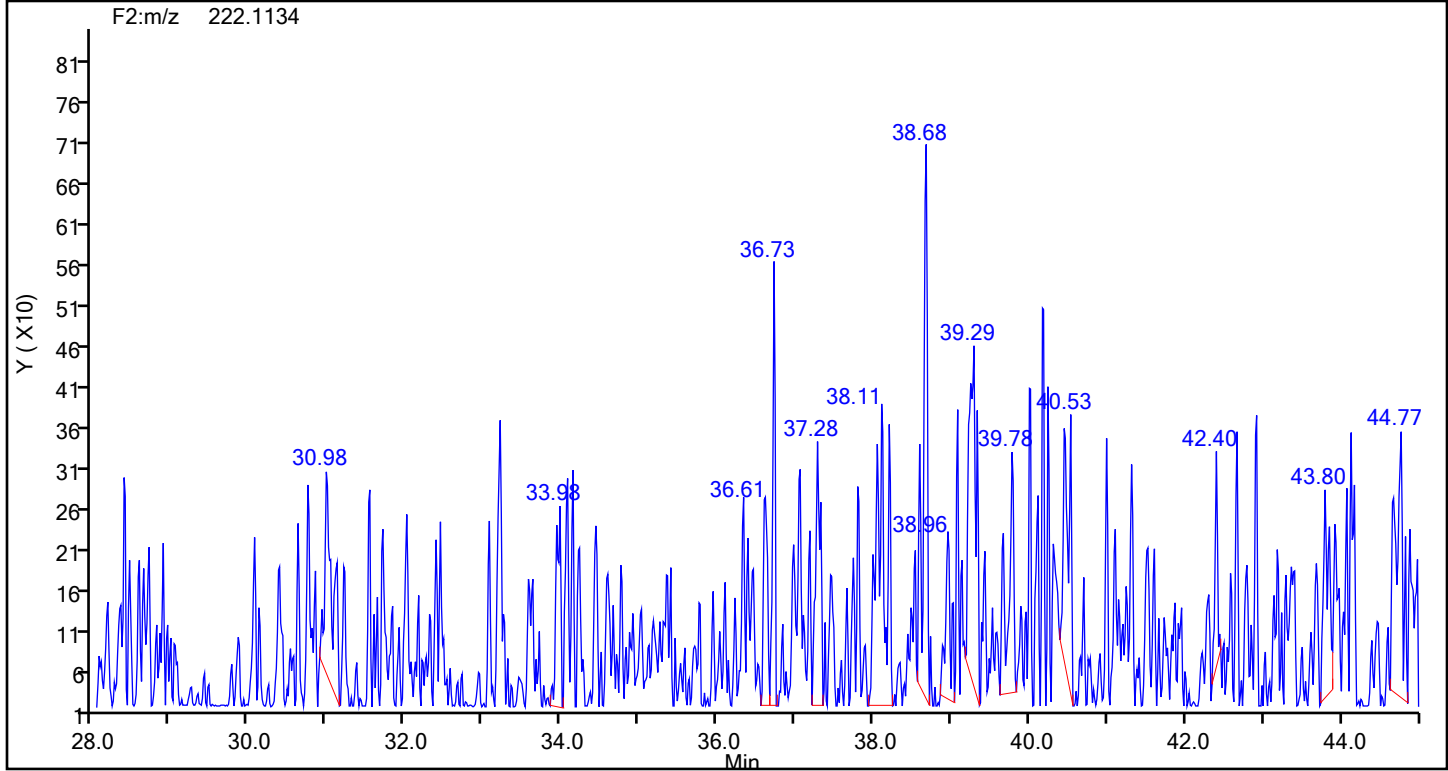
Worklist#: 87921

Sample Line#: 2

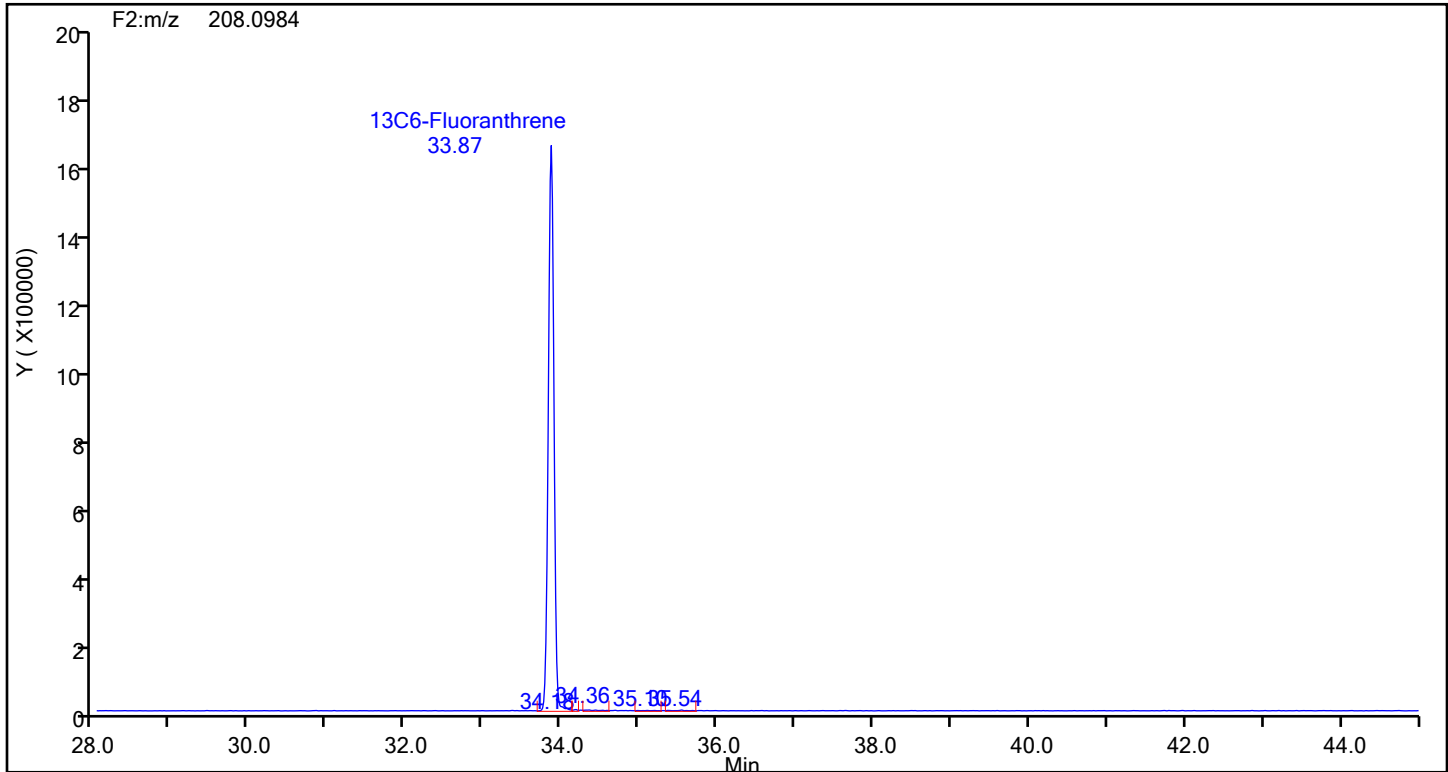
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



13C6-Benzo(c)fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

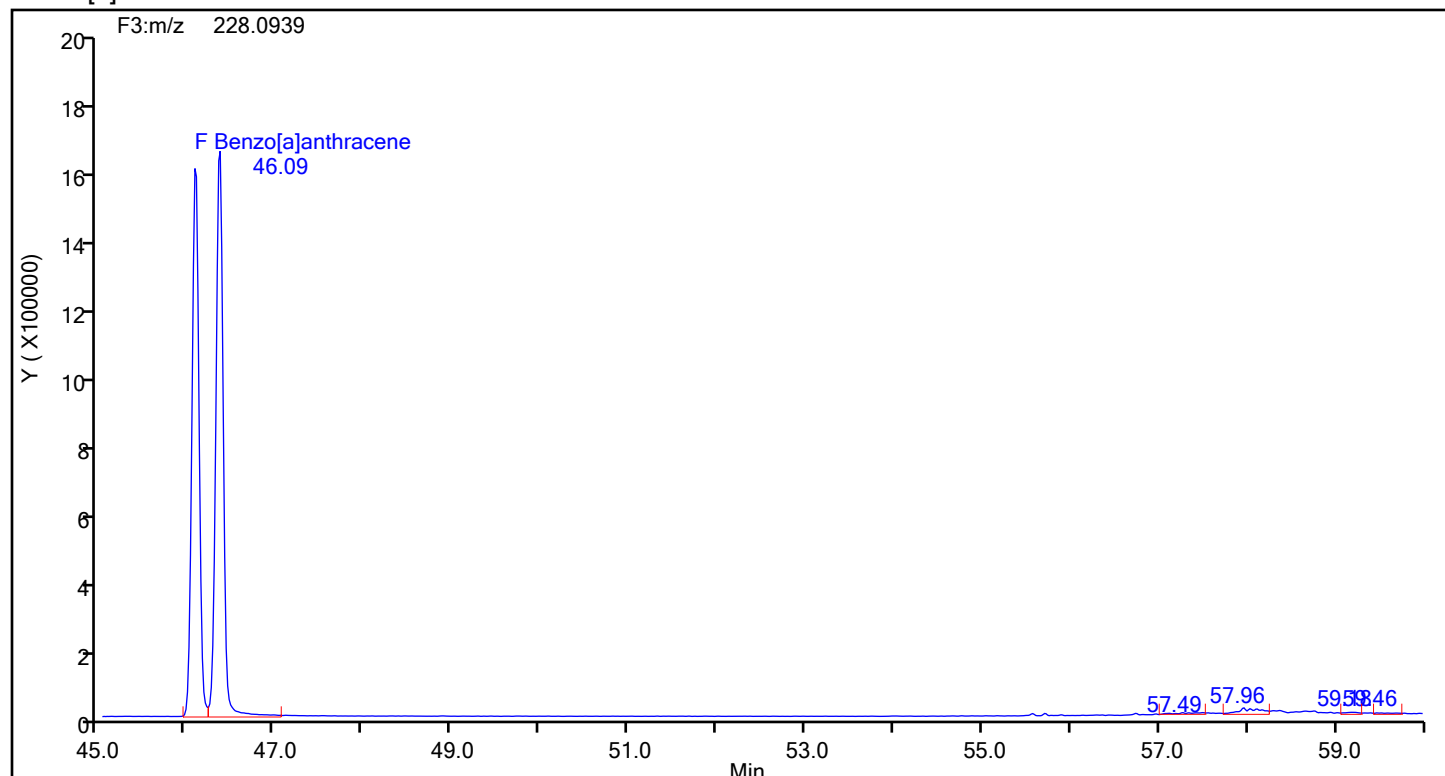
Worklist#: 87921

Sample Line#: 2

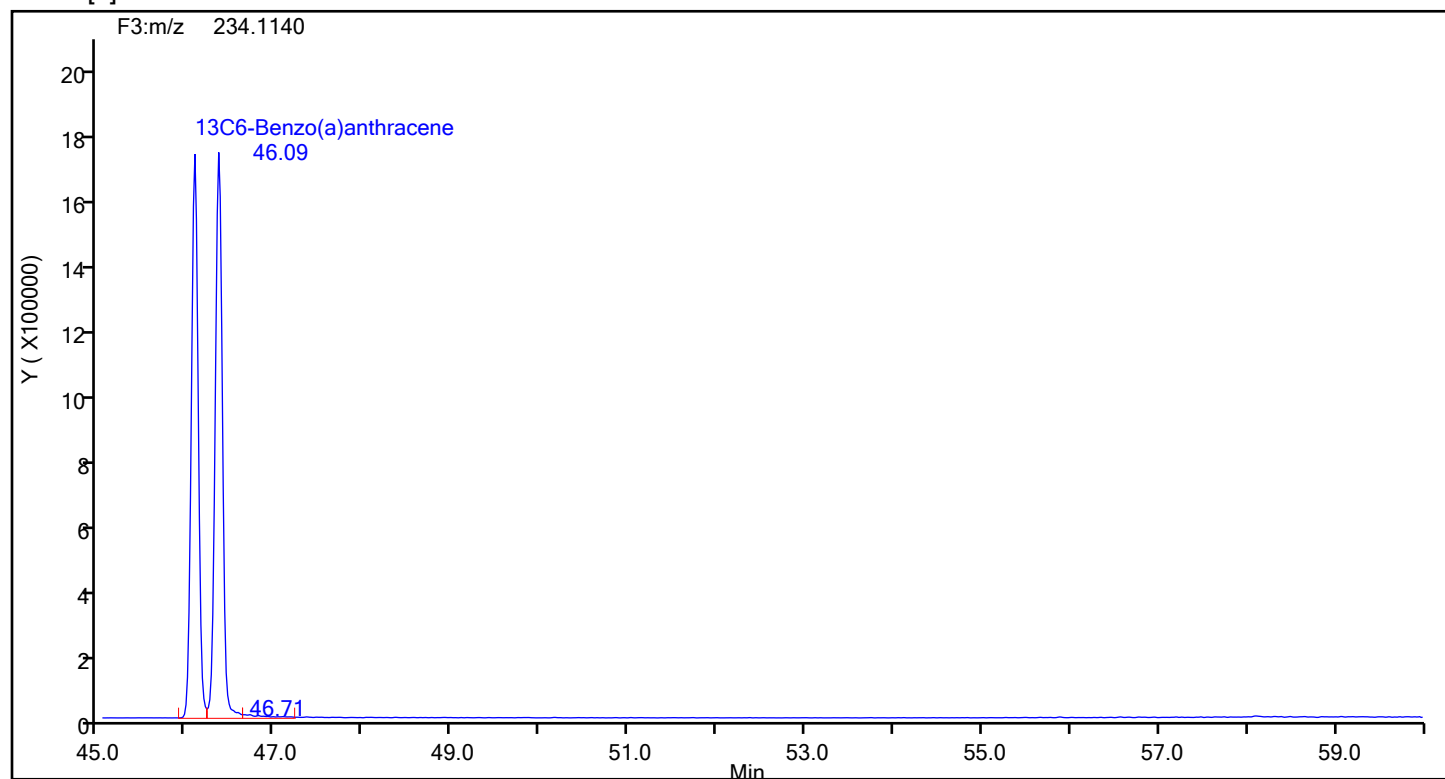
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

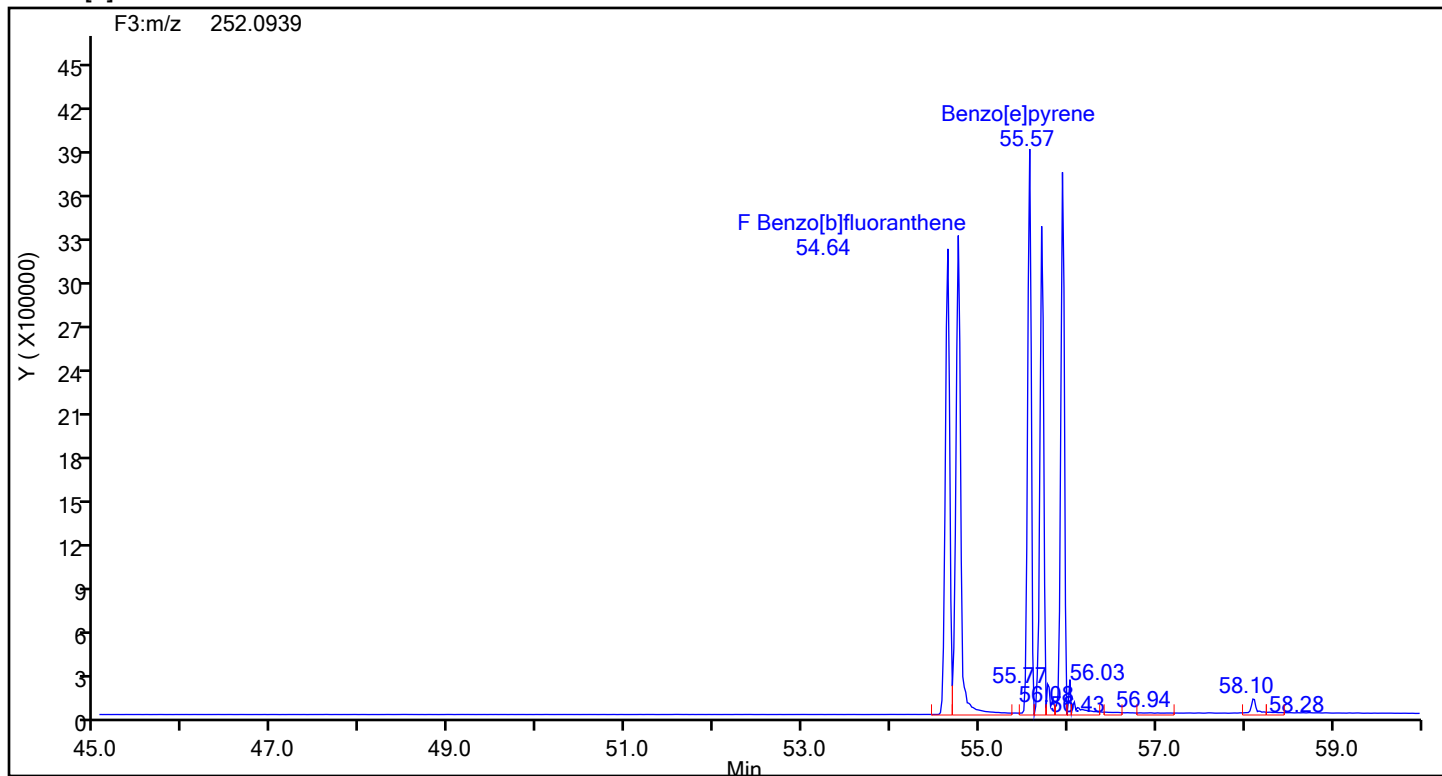
Worklist#: 87921

Sample Line#: 2

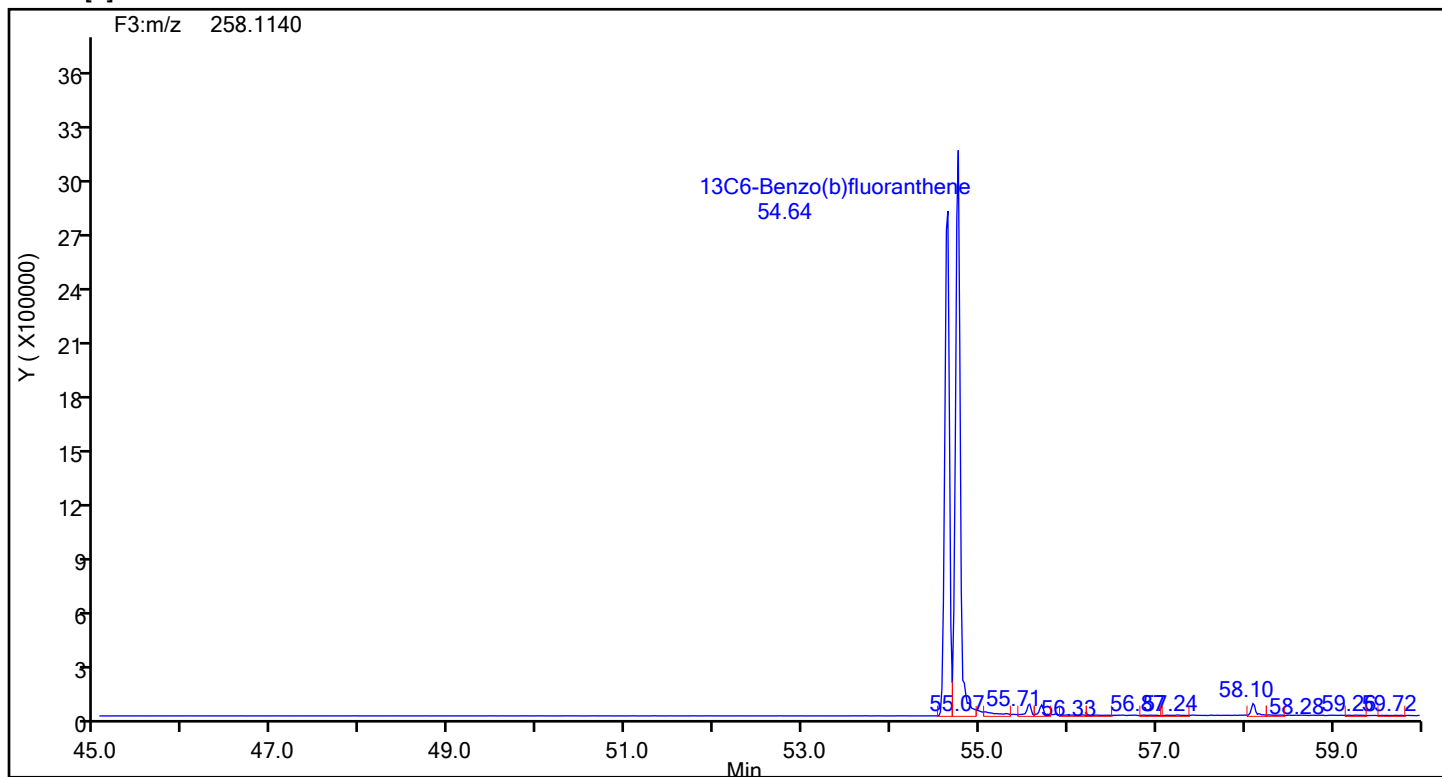
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

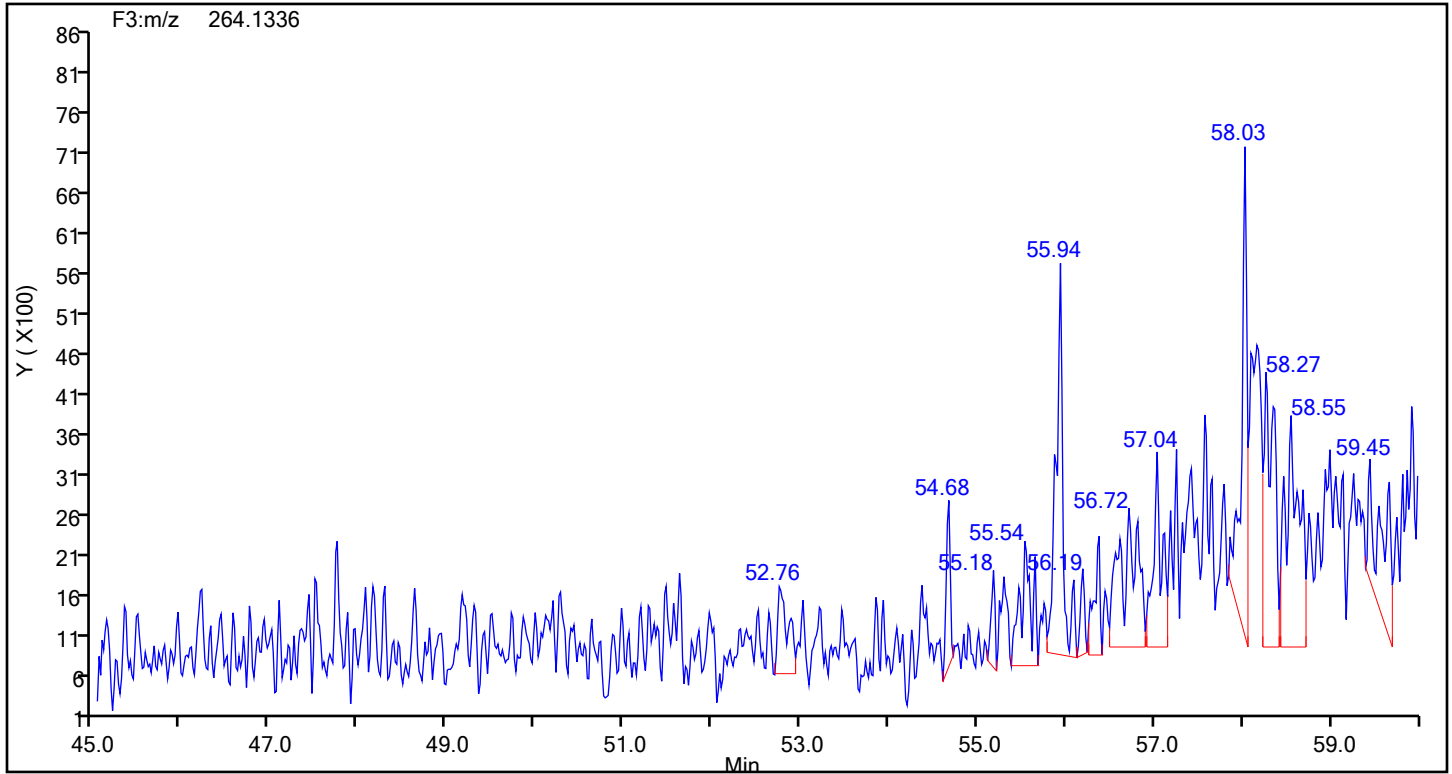
Worklist#: 87921

Sample Line#: 2

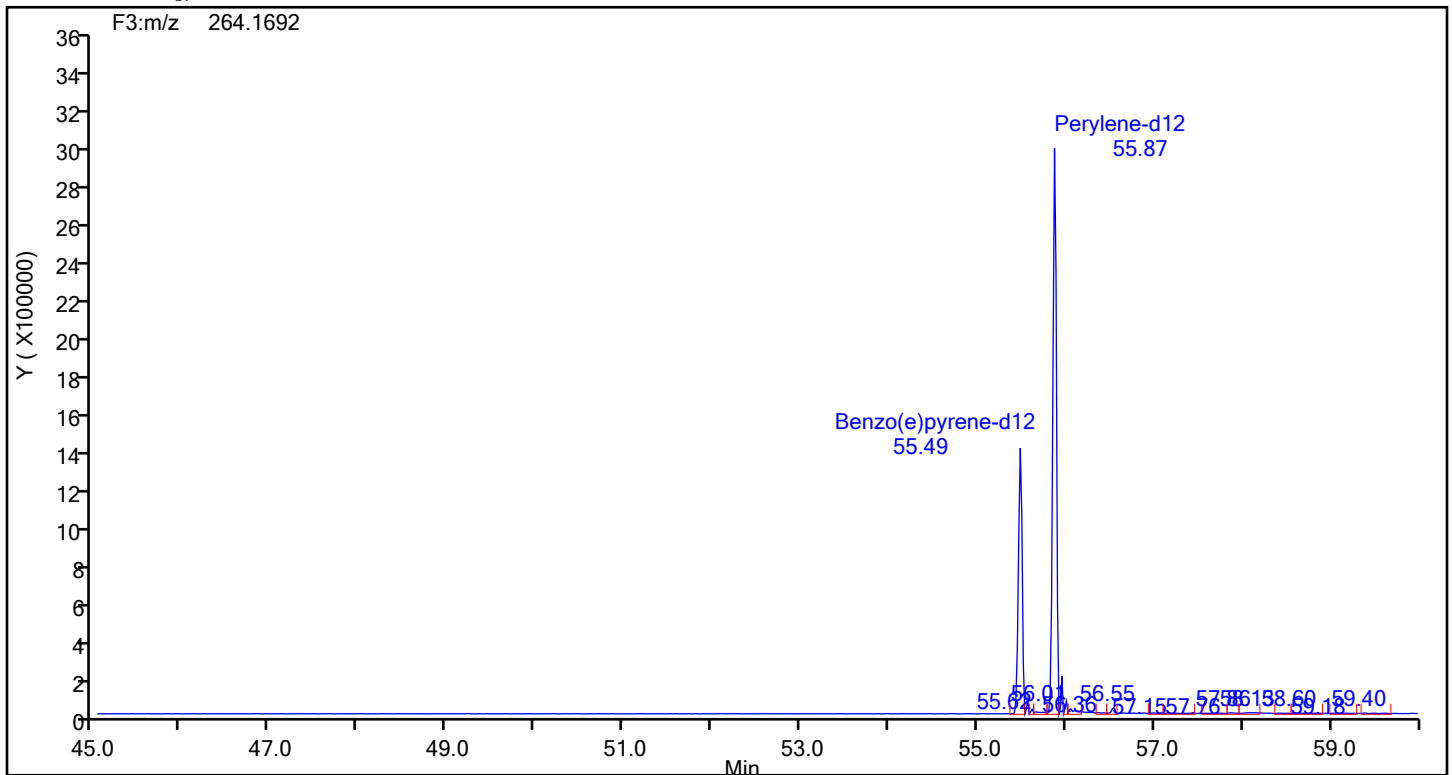
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRAH ICAL

Client ID:

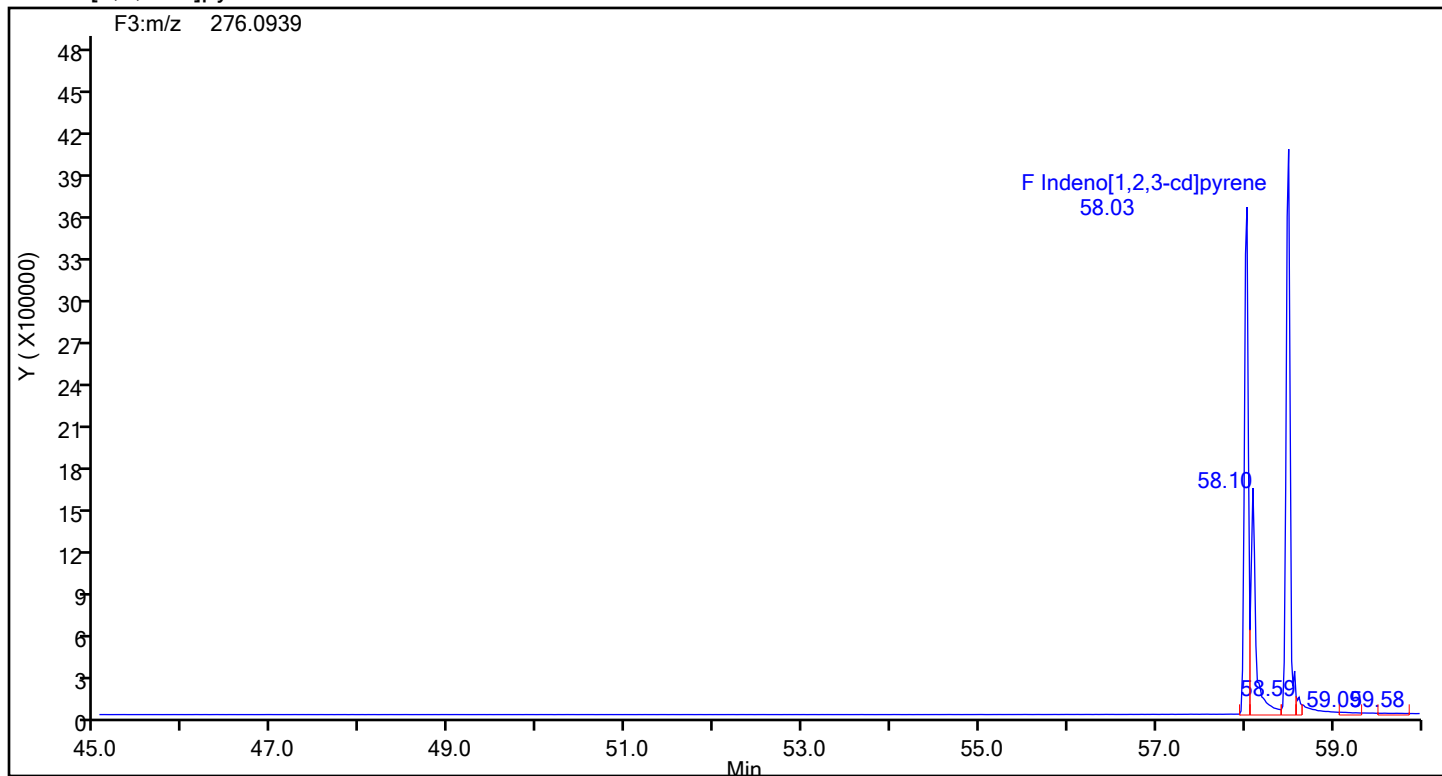
Worklist#: 87921

Sample Line#: 2

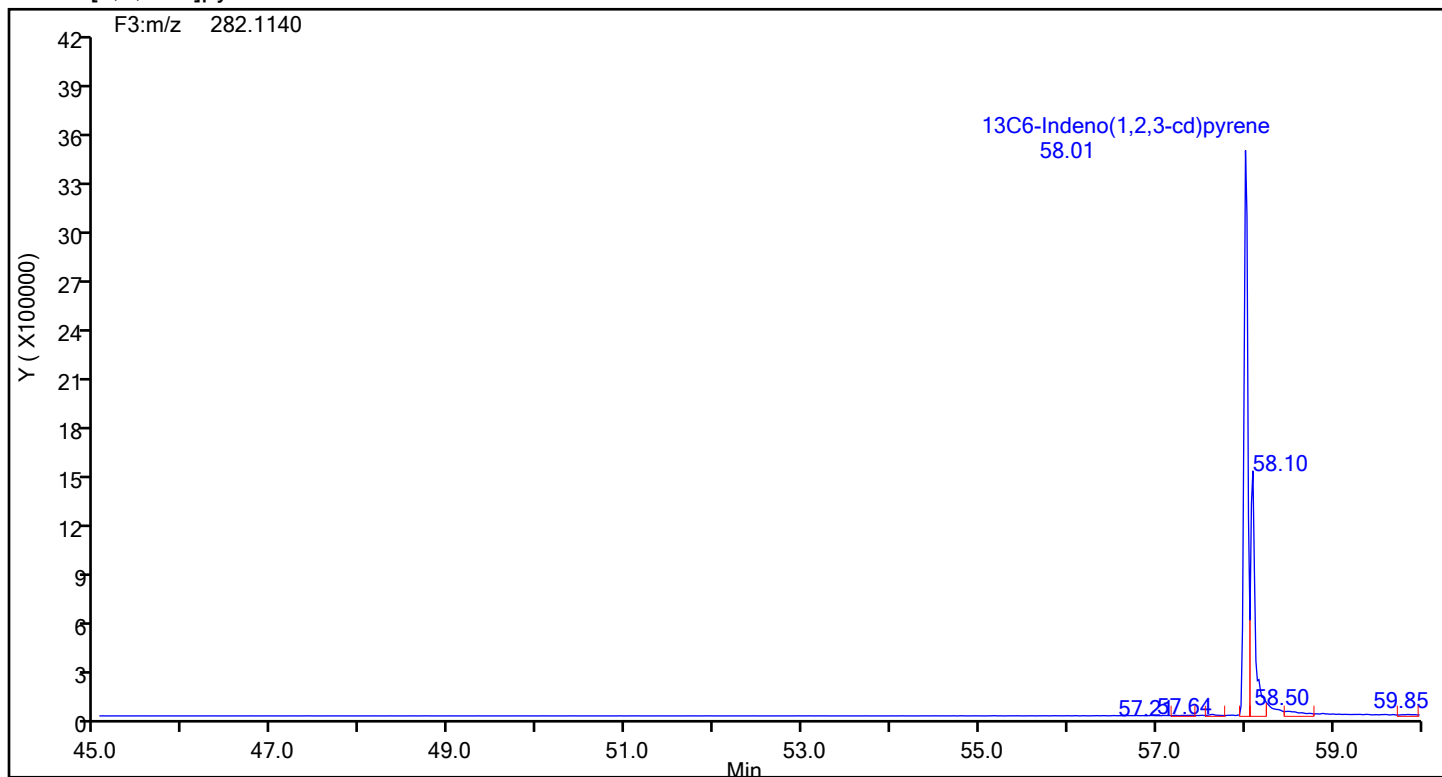
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

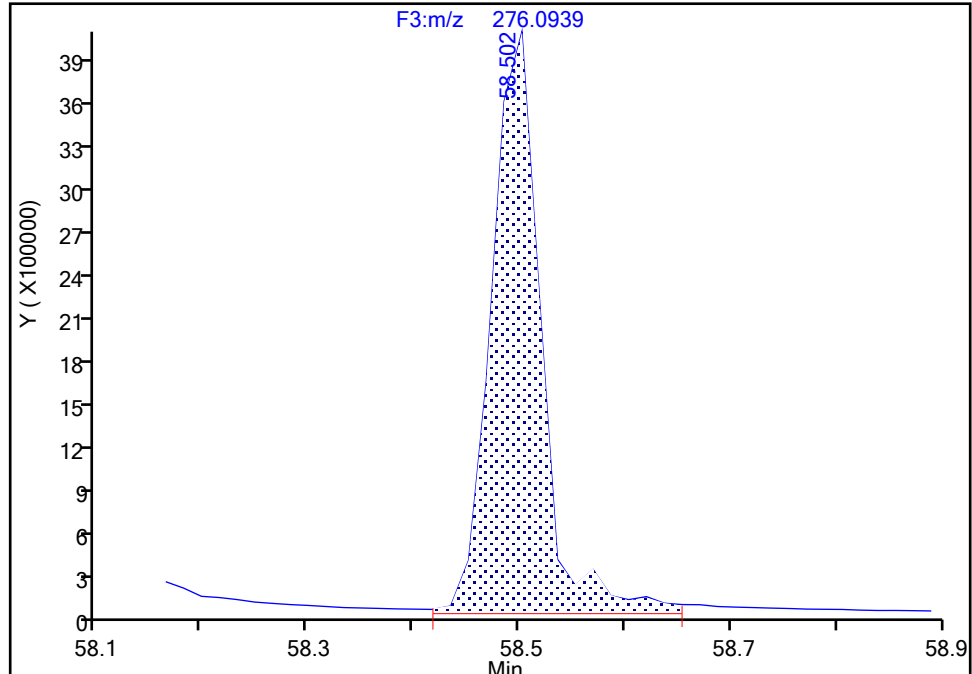
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d
Injection Date: 21-Jun-2024 02:08:00 Instrument ID: D3PAH
Lims ID: LCS 140-87205/15-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

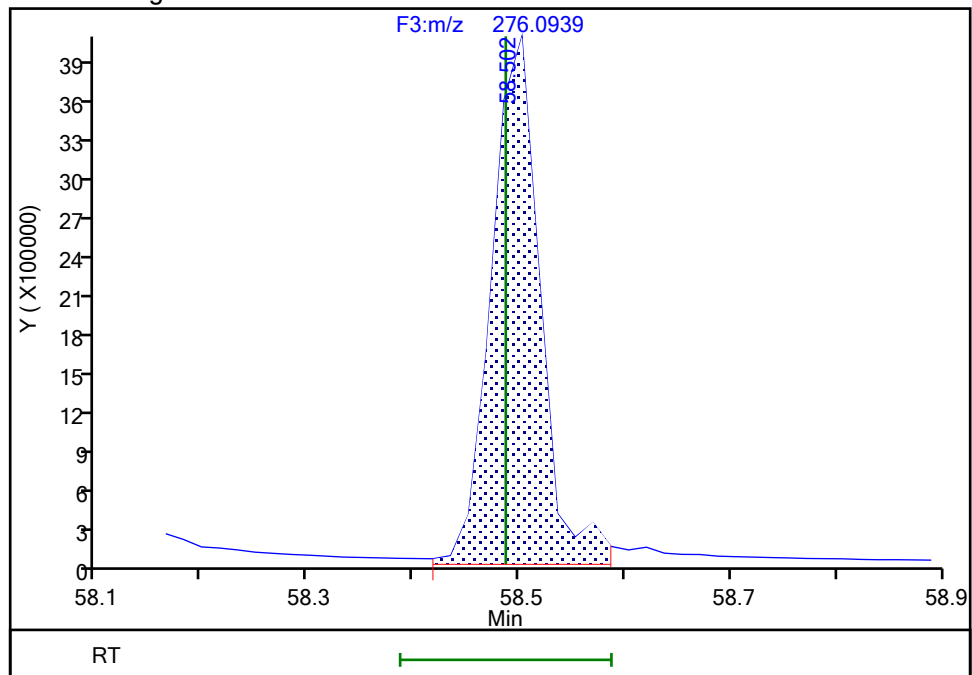
RT: 58.50
Area: 13336079
Amount: 92.110872
Amount Units: pg/ul

Processing Integration Results



RT: 58.50
Area: 13002459
Amount: 89.806594
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 15:14:31 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

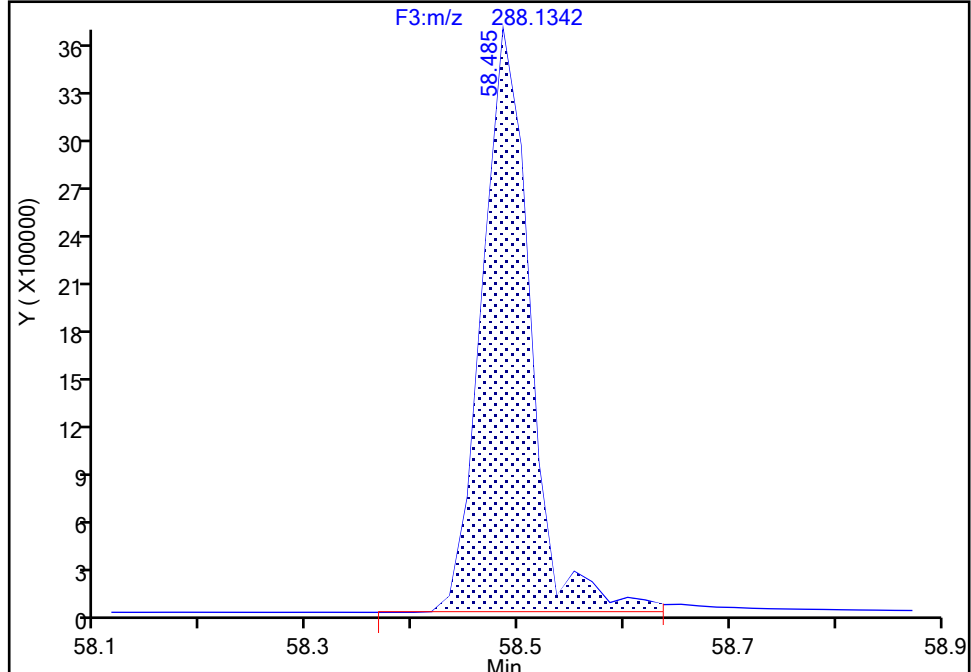
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d
Injection Date: 21-Jun-2024 02:08:00 Instrument ID: D3PAH
Lims ID: LCS 140-87205/15-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

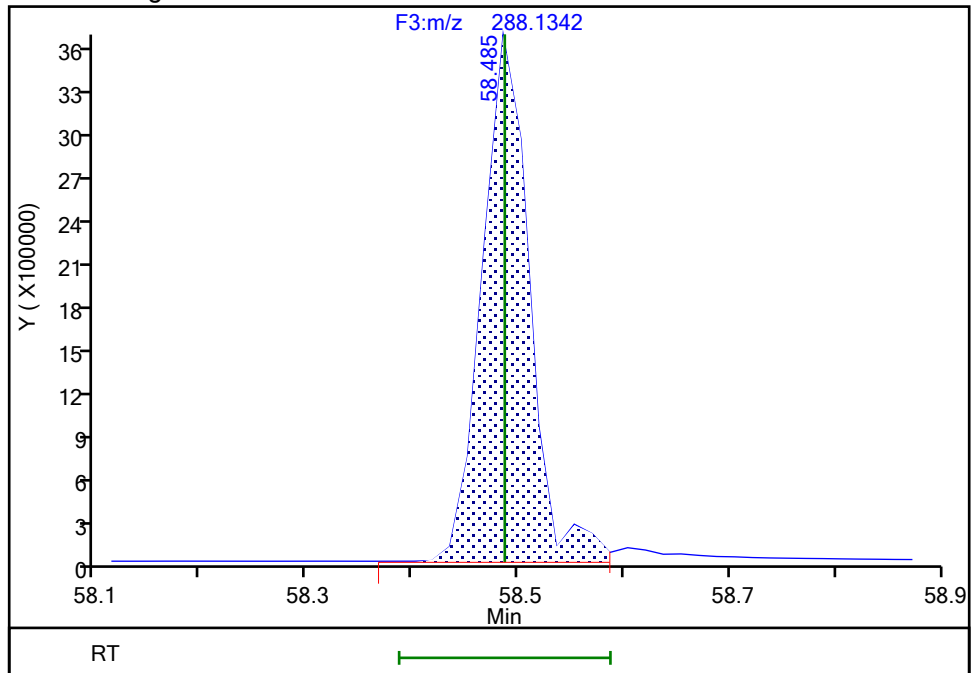
RT: 58.49
Area: 11483712
Amount: 110.6151
Amount Units: pg/ul

Processing Integration Results



RT: 58.49
Area: 11278071
Amount: 108.6343
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 15:14:24 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d

Injection Date: 21-Jun-2024 02:08:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

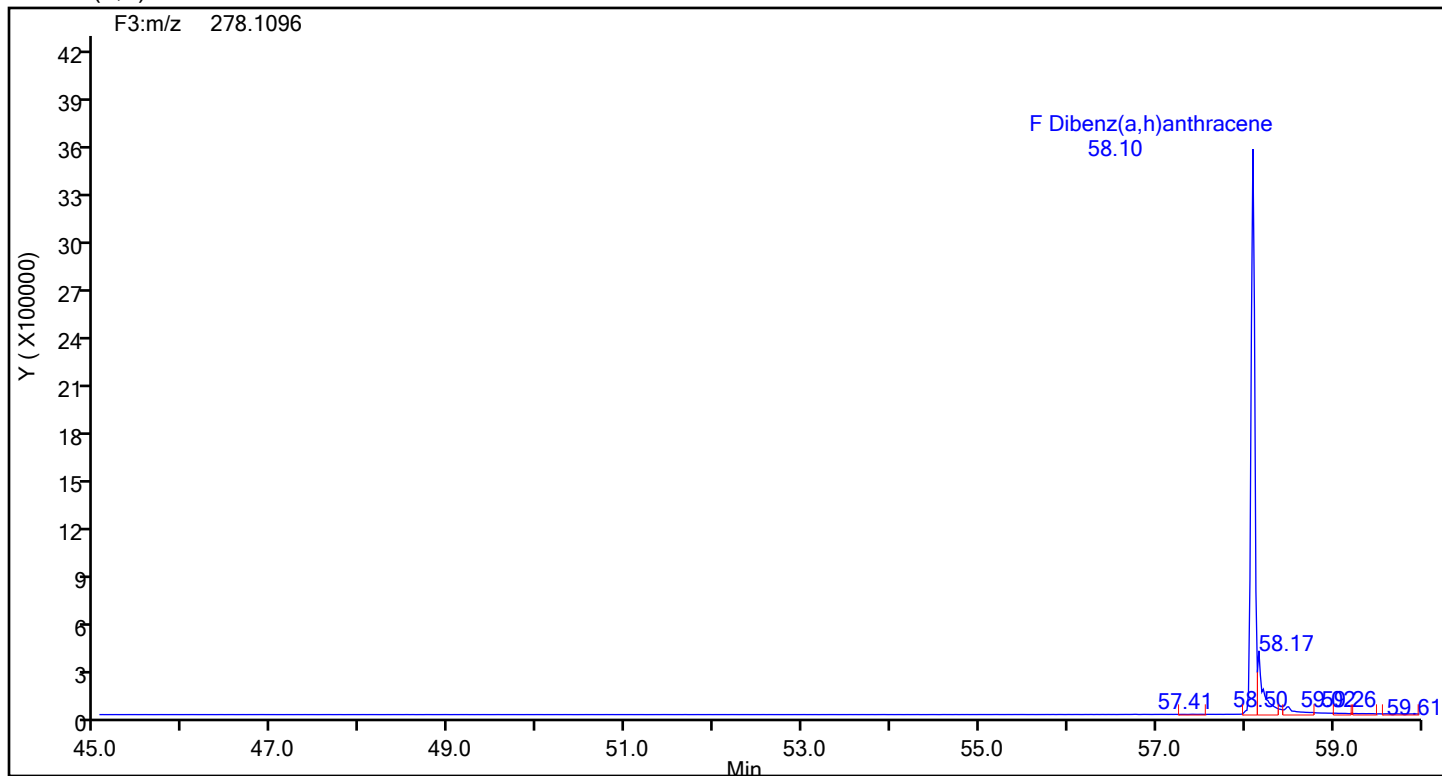
Worklist#: 87921

Sample Line#: 2

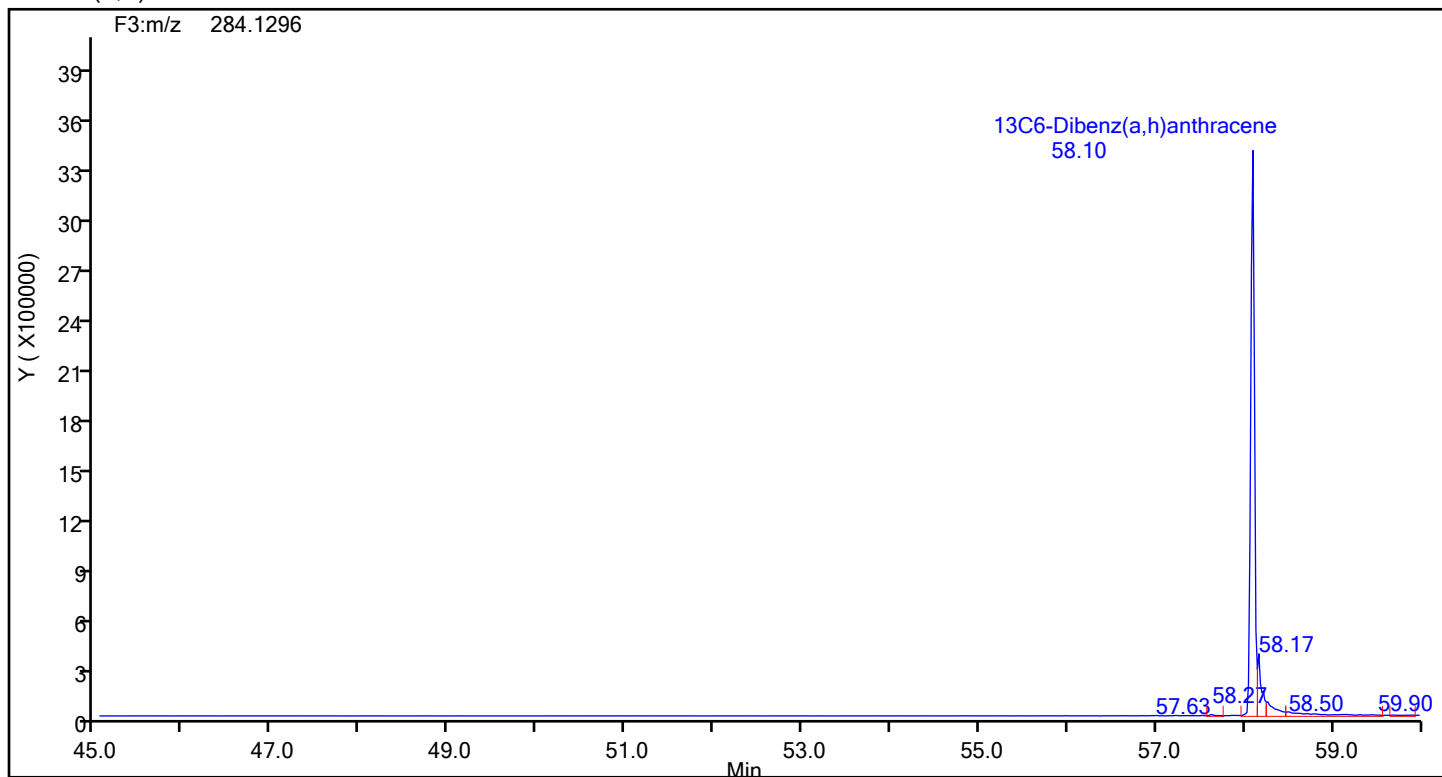
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

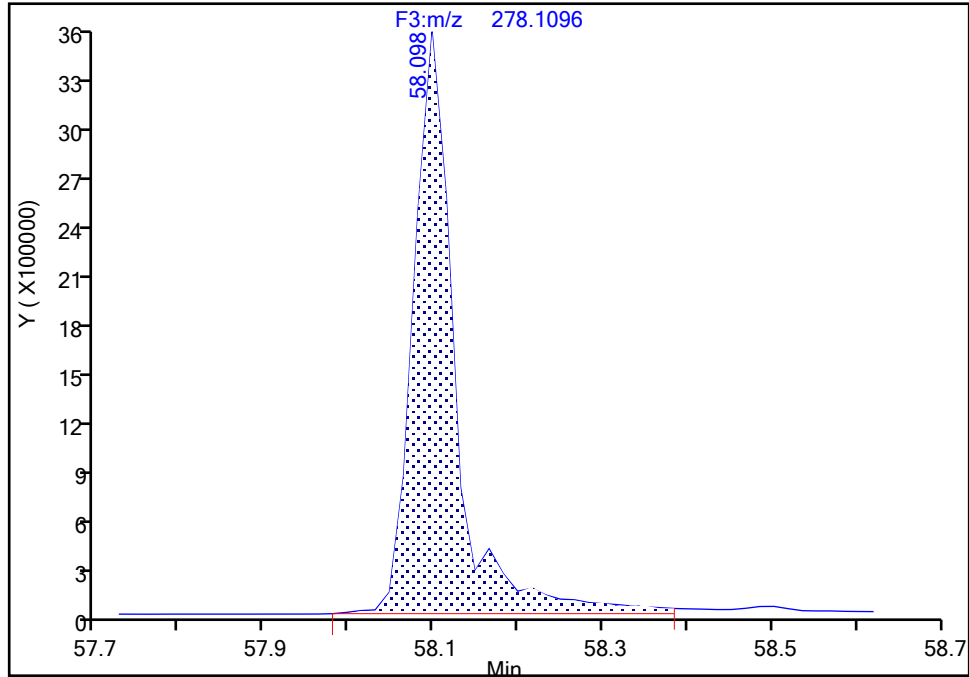
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d
Injection Date: 21-Jun-2024 02:08:00 Instrument ID: D3PAH
Lims ID: LCS 140-87205/15-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

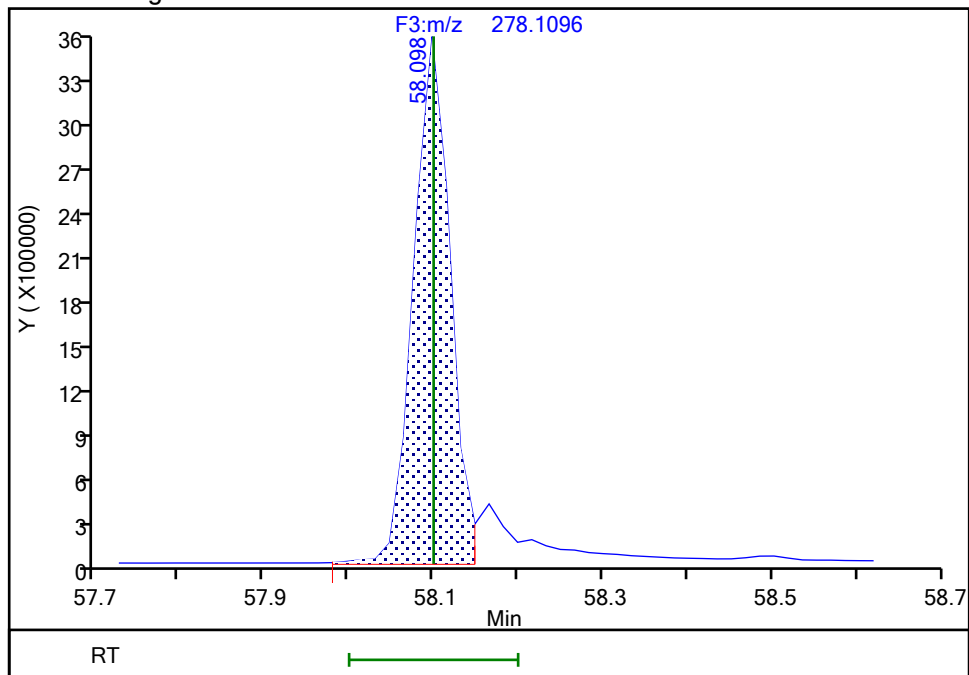
RT: 58.10
Area: 12311071
Amount: 106.7910
Amount Units: pg/ul

Processing Integration Results



RT: 58.10
Area: 10707692
Amount: 92.882700
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 15:14:19 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

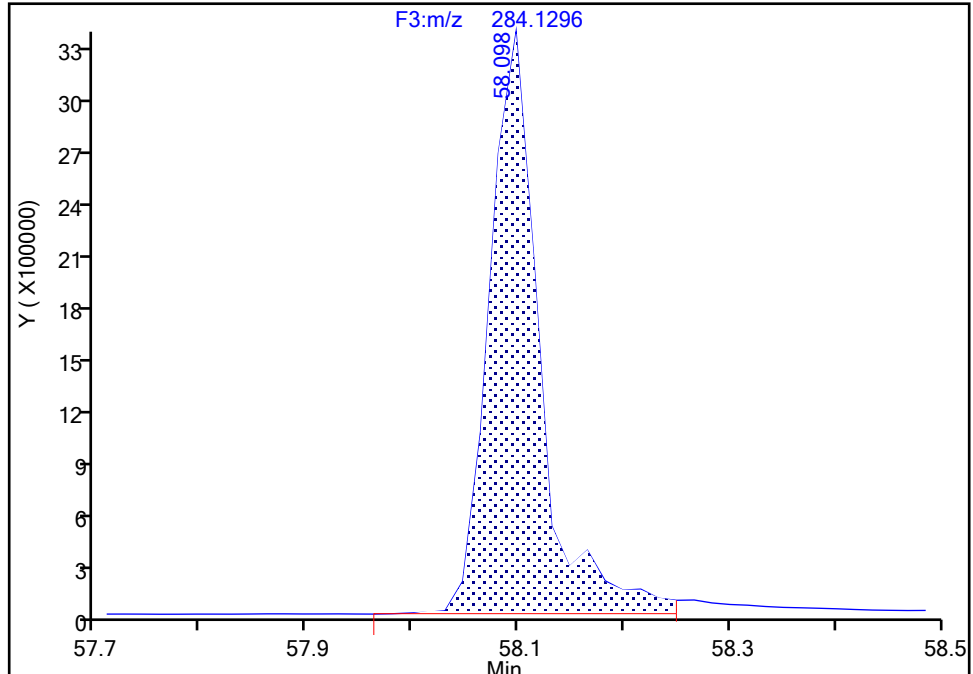
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcs140-8720515-b.d
Injection Date: 21-Jun-2024 02:08:00 Instrument ID: D3PAH
Lims ID: LCS 140-87205/15-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

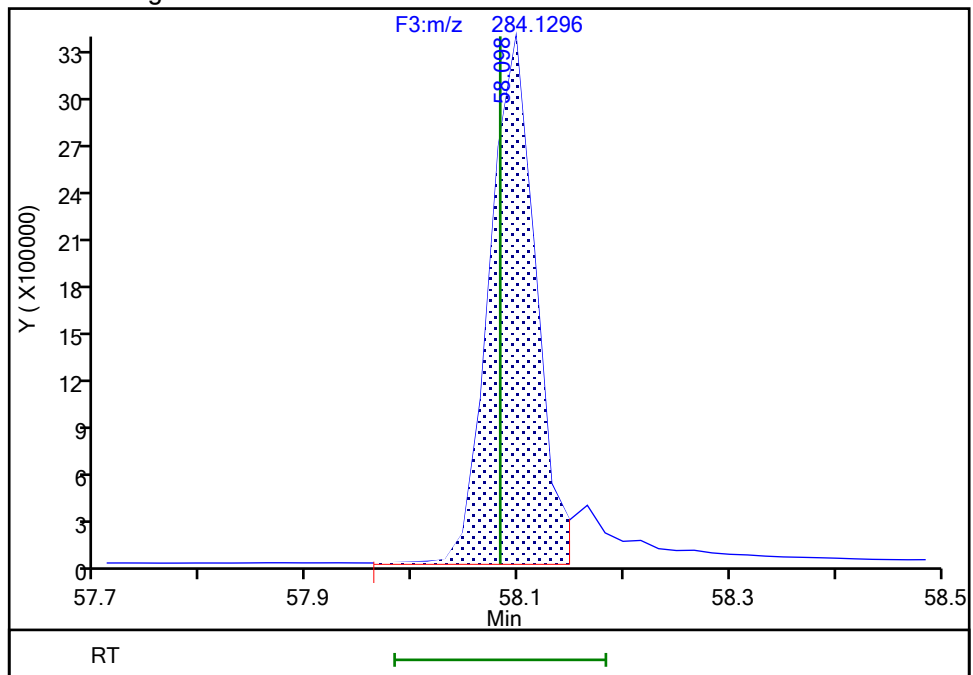
RT: 58.10
Area: 11173816
Amount: 130.0283
Amount Units: pg/ul

Processing Integration Results



RT: 58.10
Area: 10189549
Amount: 118.5745
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 15:14:13 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 140-87205/16-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcsd140-8720516-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/21/2024 03:12</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87921</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	192.8		75.0	75.0	0.0910
91-57-6	2-Methylnaphthalene	172.6		75.0	75.0	0.0592
208-96-8	Acenaphthylene	121.0		3.00	3.00	0.0614
83-32-9	Acenaphthene	147.9		30.0	30.0	0.0754
86-73-7	Fluorene	142.9		30.0	30.0	0.0690
85-01-8	Phenanthrene	152.3		6.00	6.00	0.0816
120-12-7	Anthracene	118.4		30.0	30.0	0.0848
206-44-0	Fluoranthene	139.6		6.00	6.00	0.0352
129-00-0	Pyrene	141.2		6.00	6.00	0.0356
56-55-3	Benzo[a]anthracene	148.8		6.00	6.00	0.0799
218-01-9	Chrysene	153.4		6.00	6.00	0.0766
205-99-2	Benzo[b]fluoranthene	139.7		30.0	30.0	0.0114
207-08-9	Benzo[k]fluoranthene	138.7		6.00	6.00	0.0106
192-97-2	Benzo[e]pyrene	144.7		6.00	6.00	0.00949
50-32-8	Benzo[a]pyrene	129.1		3.00	3.00	0.00957
198-55-0	Perylene	133.5		3.00	3.00	0.00891
193-39-5	Indeno[1,2,3-cd]pyrene	137.0		3.00	3.00	0.00765
53-70-3	Dibenz(a,h)anthracene	139.1		6.00	6.00	0.00668
191-24-2	Benzo[g,h,i]perylene	133.7		6.00	6.00	0.00603

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 140-87205/16-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcsd140-8720516-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:03</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/21/2024 03:12</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87921</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87205</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	70		20-130
STL03357	13C6-2-Methylnaphthalene	76		20-130
189811-56-1	13C6-Acenaphthylene	92		20-130
189811-57-2	13C6-Acenaphthene	87		20-130
STL00616	13C6-Fluorene	88		20-130
1397194-60-3	13C6-Fluoranthrene	86		20-130
1397214-90-2	13C3-Pyrene	85		20-130
917378-11-1	13C6-Benzo (a) anthracene	81		20-130
1397177-72-8	13C6-Chrysene	80		20-130
STL03358	13C6-Benzo (b) fluoranthene	91		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	85		20-130
STL03382	13C4-Benzo (e) pyrene	89		20-130
STL03359	13C4-Benzo (a) pyrene	88		20-130
1520-96-3	Perylene-d12	84		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	114		20-130
STL03360	13C6-Dibenz (a,h) anthracene	103		20-130
350820-11-0	13C12-Benzo (ghi) perylene	105		20-130
189811-60-7	13C6-Anthracene	88		20-130
1189955-53-0	13C6-Phenanthrene	85		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d
Lims ID: LCSD 140-87205/16-B
Client ID:
Sample Type: LCSD
Inject. Date: 21-Jun-2024 03:12:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033201-003
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 21-Jun-2024 15:15:35 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1637

First Level Reviewer: F9EE

Date: 21-Jun-2024 15:15:35

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:30	7491325		3.3746	70.4	70.4	0.0125	0.0125	70.38	
Naphthalene	11:30	12416470		1.2893	128.6	128.6	0.0607	0.0607	129	
D 13C6-2-Methylnaphthalene	13:50	3850410		1.6031	76.1	76.1	0.005721	0.005721	76.15	
2-Methylnaphthalene	13:50	5663420		1.2786	115.0	115.0	0.0395	0.0395	115	
D 13C6-Acenaphthylene	16:43	4777107		1.6520	91.7	91.7	0.0132	0.0132	91.67	
Acenaphthylene	16:43	5145325		2.3661	80.7	80.7	0.0409	0.0409	80.69	
* Acenaphthene-d10	17:18	1577180		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:25	2694930		0.9792	87.3	87.3	0.0179	0.0179	87.25	
Acenaphthene	17:25	3374465		1.2697	98.6	98.6	0.0503	0.0503	98.62	
Fluorene	19:43	2962881		1.2532	95.3	95.3	0.0460	0.0460	95.27	
D 13C6-Fluorene	19:42	2481616		0.8898	88.4	88.4	0.0138	0.0138	88.41	
D 13C6-Phenanthrene	25:06	3791099		0.5724	85.0	85.0	0.0122	0.0122	84.98	
Phenanthrene	25:06	4250621		1.1044	101.5	101.5	0.0544	0.0544	102	
D 13C6-Anthracene	25:25	3102337		0.4523	88.0	88.0	0.0154	0.0154	88.00	
Anthracene	25:26	3326178		1.3586	78.9	78.9	0.0565	0.0565	78.92	
D 13C6-Fluoranthrene	33:51	8075848		1.1994	86.4	86.4	0.0192	0.0192	86.40	
Fluoranthene	33:52	8653263		1.1513	93.1	93.1	0.0235	0.0235	93.07	
* Pyrene-d10	35:24	3896673		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:32	8932339		1.3512	84.8	84.8	0.0153	0.0153	84.82	
Pyrene	35:32	8959288		1.0652	94.2	94.2	0.0238	0.0238	94.16	
D 13C6-Benzo(a)anthracene	46:04	8669559		1.5189	80.7	80.7	0.0130	0.0130	80.68	
Benzo[a]anthracene	46:04	8372829		0.9739	99.2	99.2	0.0532	0.0532	99.17	
D 13C6-Chrysene	46:21	9231788		1.6287	80.1	80.1	0.0121	0.0121	80.12	
Chrysene	46:21	9268504		0.9815	102.3	102.3	0.0511	0.0511	102	
D 13C6-Benzo(b)fluoranthene	54:37	9363317		1.4621	90.5	90.5	0.003351	0.003351	90.52	
Benzo[b]fluoranthene	54:38	9808227		1.1249	93.1	93.1	0.007580	0.007580	93.12	
D 13C6-Benzo(k)fluoranthene	54:45	10524945		1.7507	85.0	85.0	0.002798	0.002798	84.98	
Benzo[k]fluoranthene	54:45	10971147		1.1271	92.5	92.5	0.007075	0.007075	92.49	
* Benzo(e)pyrene-d12	55:28	3537277		5.7E+04	50.0	50.0				
D 13C4-Benzo(e)pyrene	55:33	10294577		1.6368	88.9	88.9	0.0115	0.0115	88.90	
Benzo[e]pyrene	55:33	9946054		1.0013	96.5	96.5	0.006324	0.006324	96.49	
Benzo[a]pyrene	55:42	9228615		1.1130	86.1	86.1	0.006382	0.006382	86.08	
D 13C4-Benzo(a)pyrene	55:42	9632675		1.5508	87.8	87.8	0.0121	0.0121	87.80	
D Perylene-d12	55:52	7118496		1.1917	84.4	84.4	0.0178	0.0178	84.44	
Perylene	55:56	9063121		1.4307	89.0	89.0	0.005941	0.005941	88.99	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Indeno(1,2,3-cd)pyrene	58:00	8219060		1.0218	113.7	113.7	0.0102	0.0102	114	
Indeno[1,2,3-cd]pyrene	58:01	8446447		1.1249	91.4	91.4	0.005103	0.005103	91.35	
D 13C6-Dibenz(a,h)anthracene	58:05	7659566		1.0553	102.6	102.6	0.007936	0.007936	103	M
Dibenz(a,h)anthracene	58:05	8038716		1.1314	92.8	92.8	0.004451	0.004451	92.76	M
D 13C12-Benzo(ghi)perylene	58:28	9490551		1.2749	105.2	105.2	0.005156	0.005156	105	M
Benzo[g,h,i]perylene	58:29	10858479		1.2838	89.1	89.1	0.004017	0.004017	89.12	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d
Lims ID: LCSD 140-87205/16-B
Client ID:
Sample Type: LCSD
Inject. Date: 21-Jun-2024 03:12:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033201-003
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 21-Jun-2024 15:15:35 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1637

First Level Reviewer: F9EE

Date: 21-Jun-2024 15:15:35

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:30	11:32	-3	0.665	7491325	2460371	188	470	13087		
Naphthalene											
128.0626	11:30	11:31	-4	1.000	12416470	4226783	770	1925	5489		
13C6-2-Methylnaphthalene											
148.0984	13:50	13:52	-2	0.800	3850410	1778144	41	102	43369		
2-Methylnaphthalene											
142.0783	13:50	13:52	-2	1.000	5663420	2608424	359	897	7266		
13C6-Acenaphthylene											
158.0828	16:43	16:44	-2	0.966	4777107	1696212	97	242	17487		
Acenaphthylene											
152.0626	16:43	16:45	-2	1.000	5145325	1843413	344	860	5359		
Acenaphthene-d10											
164.1404	17:18	17:20	-2		1577180	556066	55	137	10110		
13C6-Acenaphthene											
160.0984	17:25	17:26	-2	1.007	2694930	887945	78	195	11384		
Acenaphthene											
154.0783	17:25	17:27	-2	1.001	3374465	1177726	227	567	5188		
Fluorene											
166.0783	19:43	19:43	-2	1.001	2962881	888132	179	447	4962		
13C6-Fluorene											
172.0984	19:42	19:43	-2	1.139	2481616	775185	55	137	14094		
13C6-Phenanthrene											
184.0984	25:06	25:07	-2	0.709	3791099	918719	42	105	21874		
Phenanthrene											
178.0783	25:06	25:08	-2	1.000	4250621	1030460	221	552	4663		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Anthracene											
184.0984	25:25	25:27	-2	0.718	3102337	718836	42	105	17115		
Anthracene											
178.0783	25:26	25:27	-2	1.000	3326178	777005	221	552	3516		
13C6-Fluoranthrene											
208.0984	33:51	33:52	-2	0.956	8075848	1610267	139	347	11585		
Fluoranthene											
202.0783	33:52	33:52	-2	1.000	8653263	1695286	174	435	9743		
Pyrene-d10											
212.1404	35:24	35:26	-3		3896673	752860	47	117	16018		
13C3-Pyrene											
205.0883	35:32	35:33	-2	1.004	8932339	1718518	125	312	13748		
Pyrene											
202.0783	35:32	35:34	-2	1.000	8959288	1690459	174	435	9715		
13C6-Benzo(a)anthracene											
234.1140	46:04	46:05	-1	1.302	8669559	1552402	188	470	8257		
Benzo[a]anthracene											
228.0939	46:04	46:05	-1	1.000	8372829	1534950	322	805	4767		
13C6-Chrysene											
234.1140	46:21	46:21	-1	1.309	9231788	1605648	188	470	8541		
Chrysene											
228.0939	46:21	46:22	-1	1.000	9268504	1596654	322	805	4959		
13C6-Benzo(b)fluoranthene											
258.1140	54:37	54:38	-1	0.985	9363317	2544759	47	117	54144		
Benzo[b]fluoranthene											
252.0939	54:38	54:39	-1	1.000	9808227	2685374	87	217	30866		
13C6-Benzo(k)fluoranthene											
258.1140	54:45	54:46	-1	0.987	10524945	2721261	47	117	57899		
Benzo[k]fluoranthene											
252.0939	54:45	54:45	-1	1.000	10971147	2878163	87	217	33082		
Benzo(e)pyrene-d12											
264.1692	55:28	55:30	-1		3537277	1194147	203	507	5882		
13C4-Benzo(e)pyrene											
256.1073	55:33	55:34	0	1.002	10294577	3427150	180	450	19040		
Benzo[e]pyrene											
252.0939	55:33	55:36	-1	1.000	9946054	3410052	87	217	39196		
Benzo[a]pyrene											
252.0939	55:42	55:43	-1	1.000	9228615	2880308	87	217	33107		
13C4-Benzo(a)pyrene											
256.1073	55:42	55:43	-1	1.004	9632675	3054848	180	450	16971		
Perylene-d12											
264.1692	55:52	55:53	-1	1.007	7118496	2553235	203	507	12578		
Perylene											
252.0939	55:56	55:57	-1	1.001	9063121	3169433	87	217	36430		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:00	58:01	-1	1.046	8219060	2613195	100	250	26132		E

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:01	0	1.000	8446447	2602044	60	150	43367		
13C6-Dibenz(a,h)anthracene											
284.1296	58:05	58:05	0	1.047	7659566	2382795	80	200	29785		M
Dibenz(a,h)anthracene											
278.1096	58:05	58:05	-1	1.000	8038716	2573201	48	120	53608		EM
13C12-Benzo(ghi)perylene											
288.1342	58:28	58:28	-1	1.054	9490551	2908981	63	157	46174		M
Benzo[g,h,i]perylene											
276.0939	58:29	58:29	0	1.000	10858479	3204548	60	150	53409		EM

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d

Injection Date: 21-Jun-2024 03:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

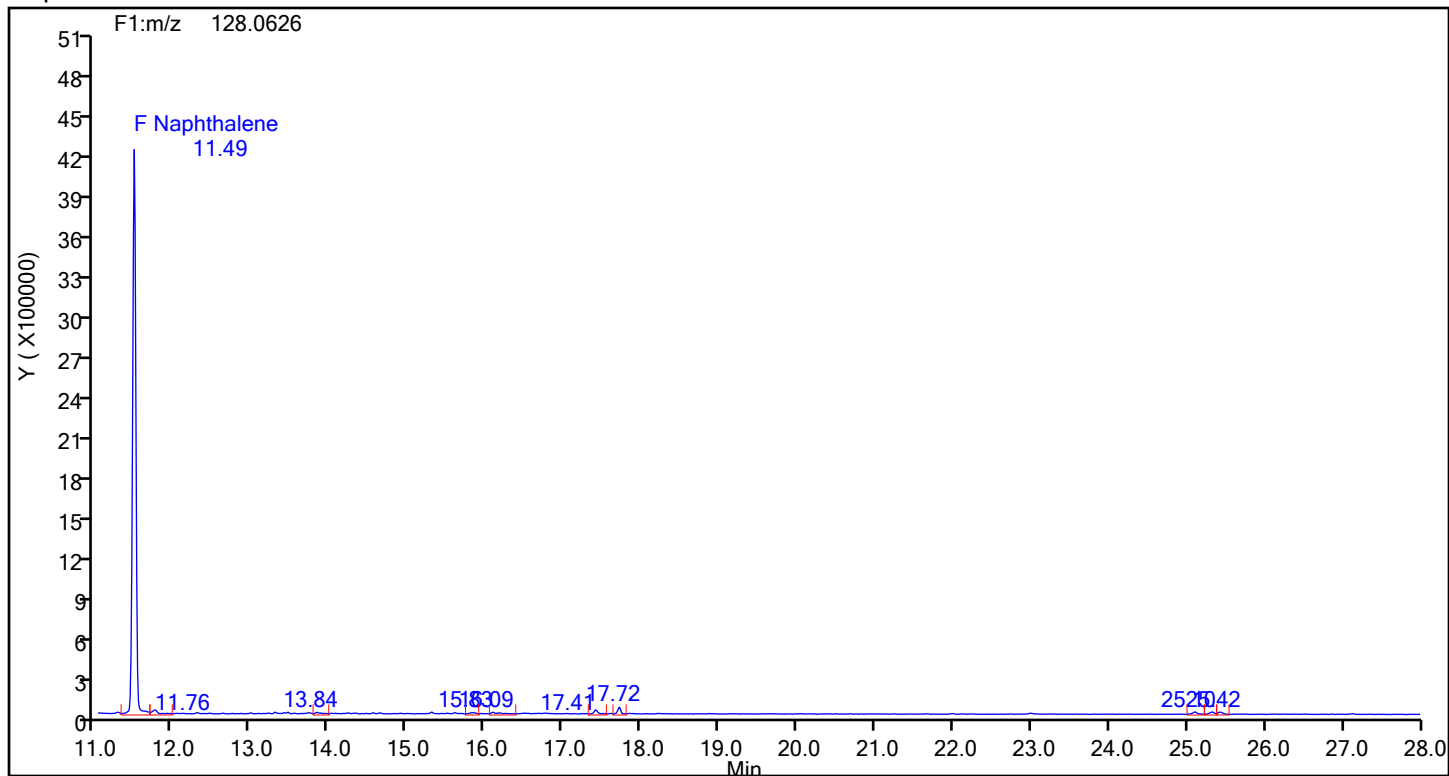
Worklist#: 87921

Sample Line#: 3

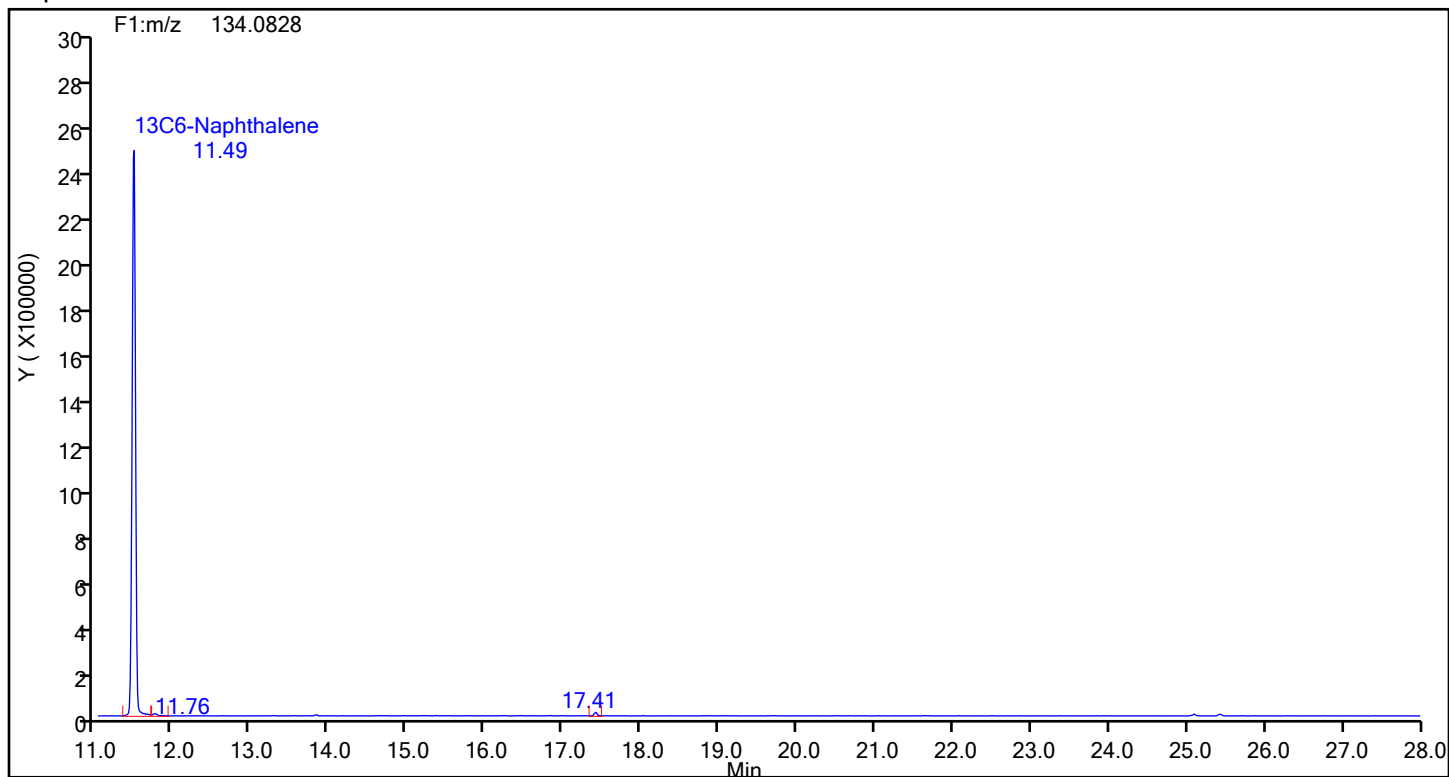
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d

Injection Date: 21-Jun-2024 03:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

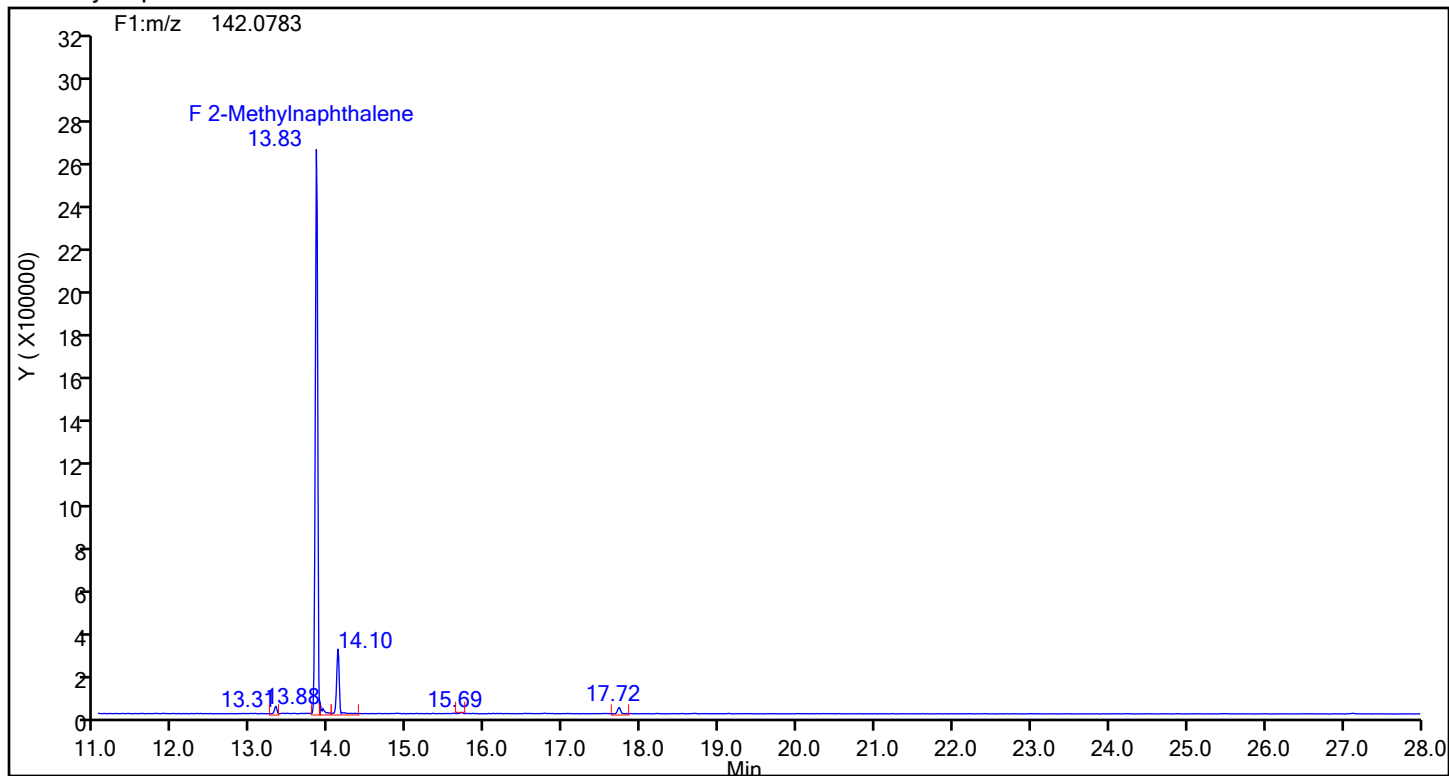
Worklist#: 87921

Sample Line#: 3

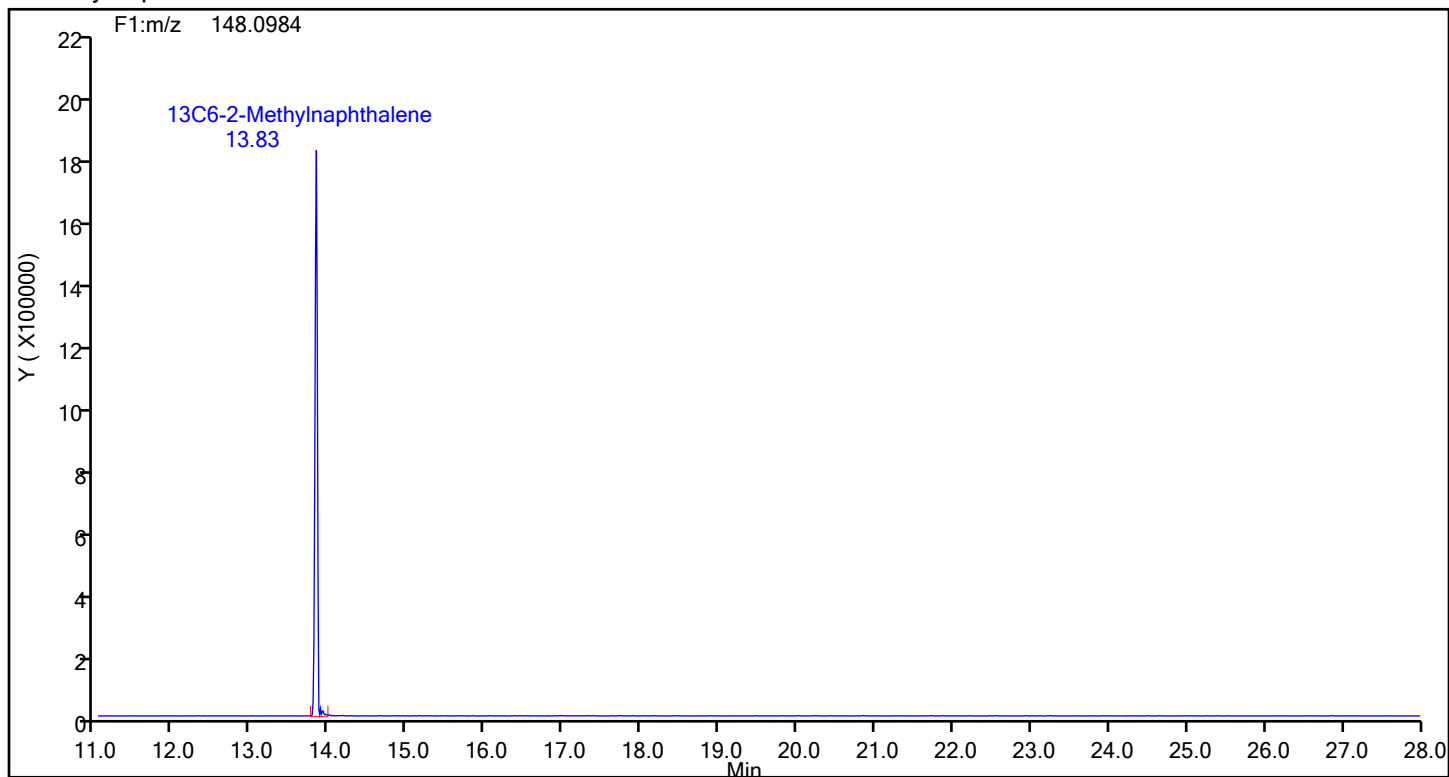
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

2-Methylnaphthalene



2-Methylnaphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d

Injection Date: 21-Jun-2024 03:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

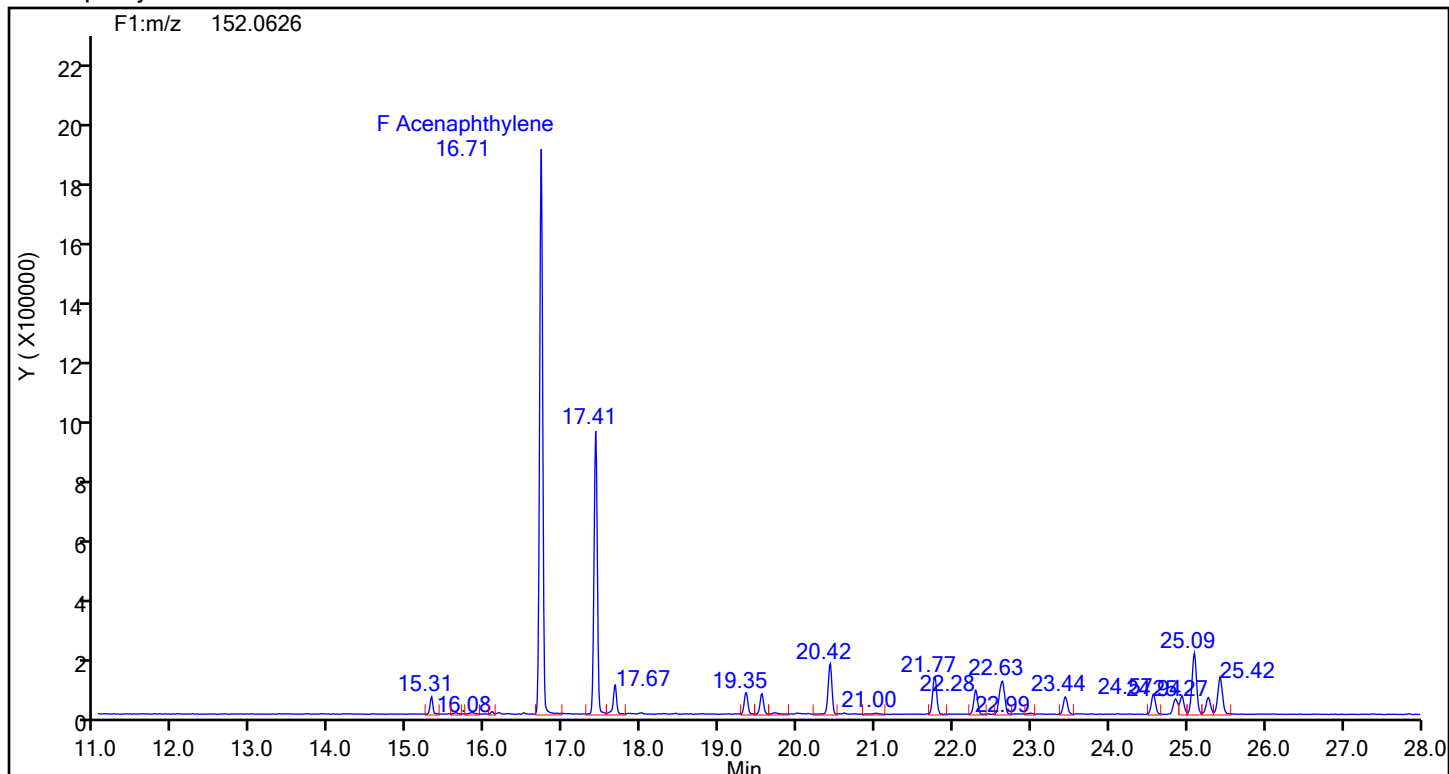
Worklist#: 87921

Sample Line#: 3

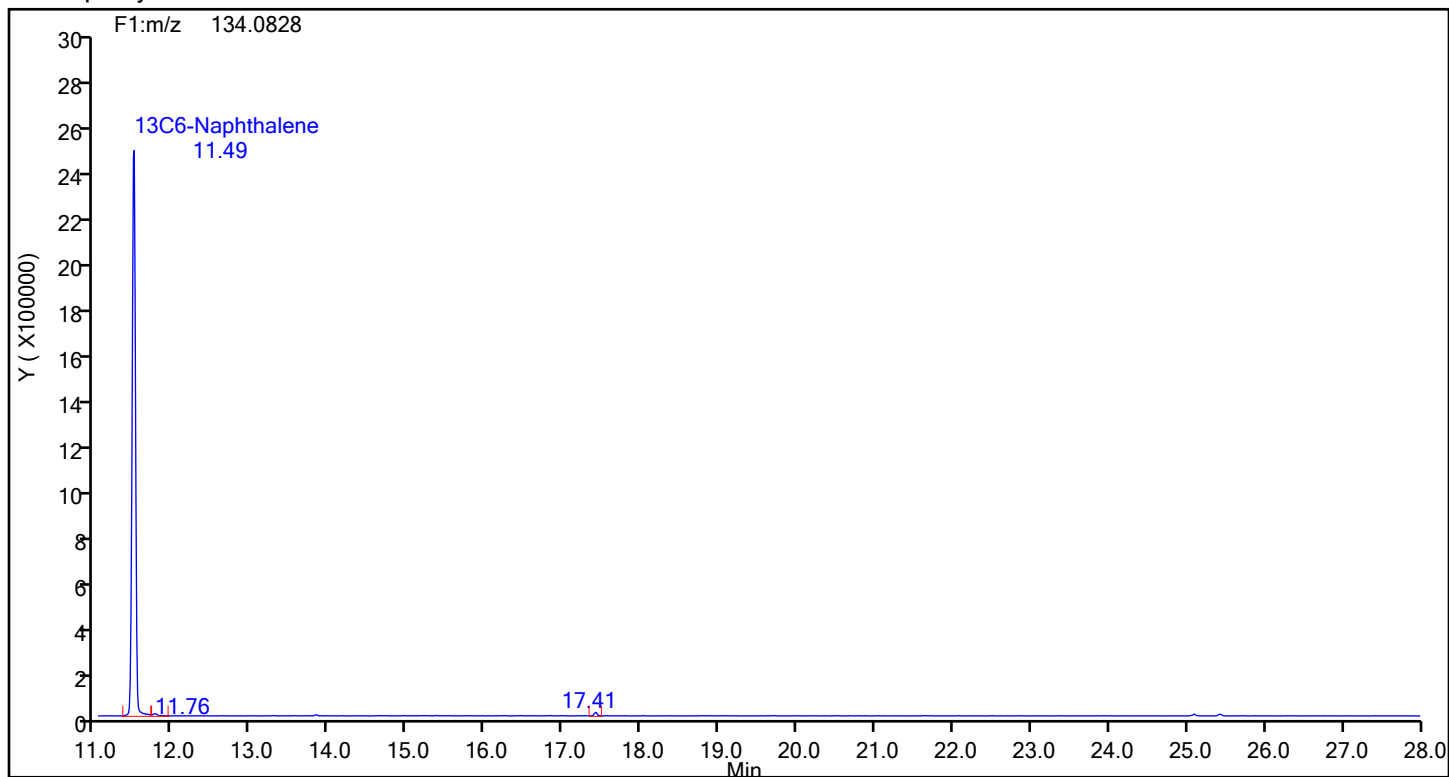
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d

Injection Date: 21-Jun-2024 03:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

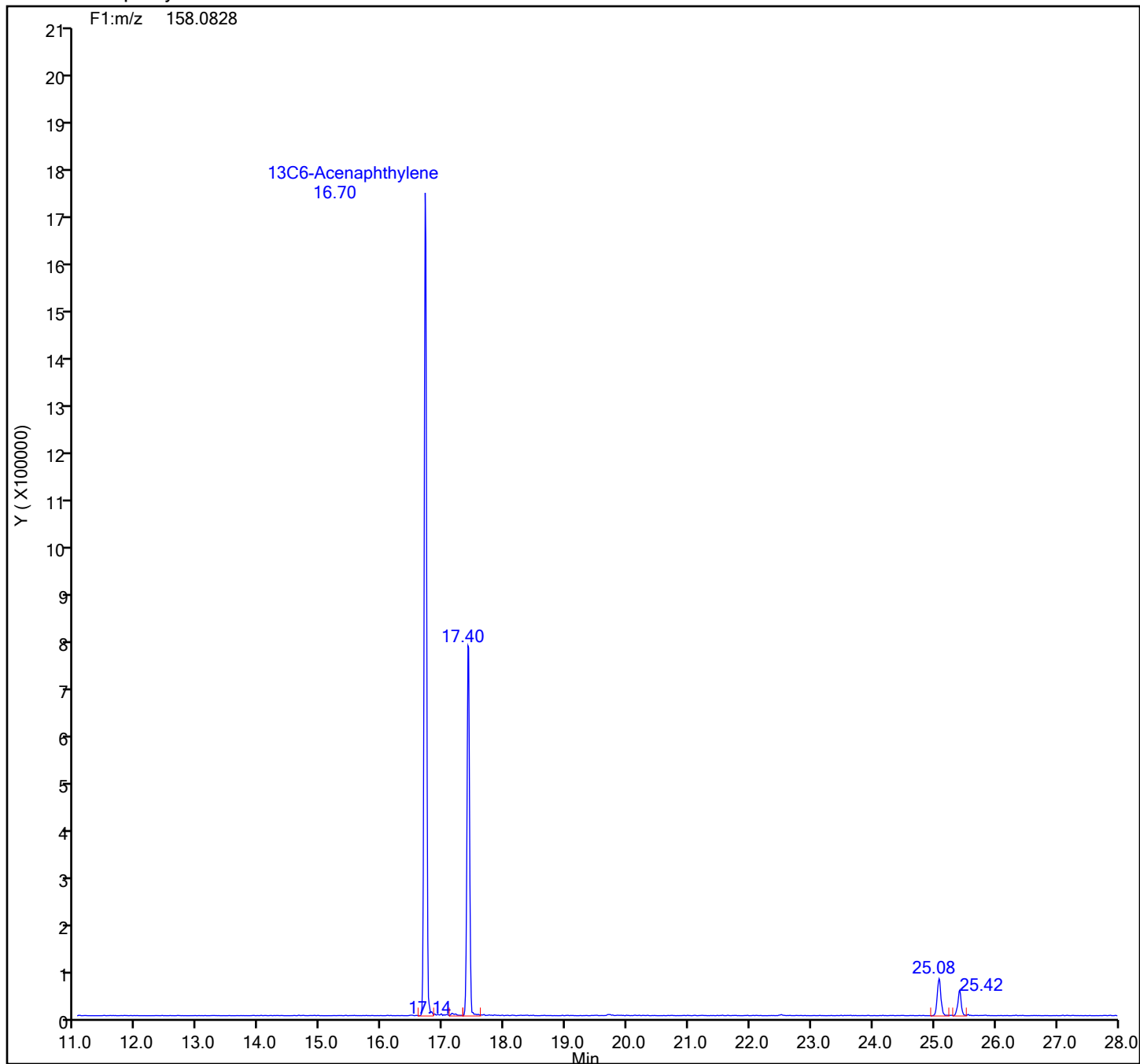
Worklist#: 87921

Sample Line#: 3

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d

Injection Date: 21-Jun-2024 03:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

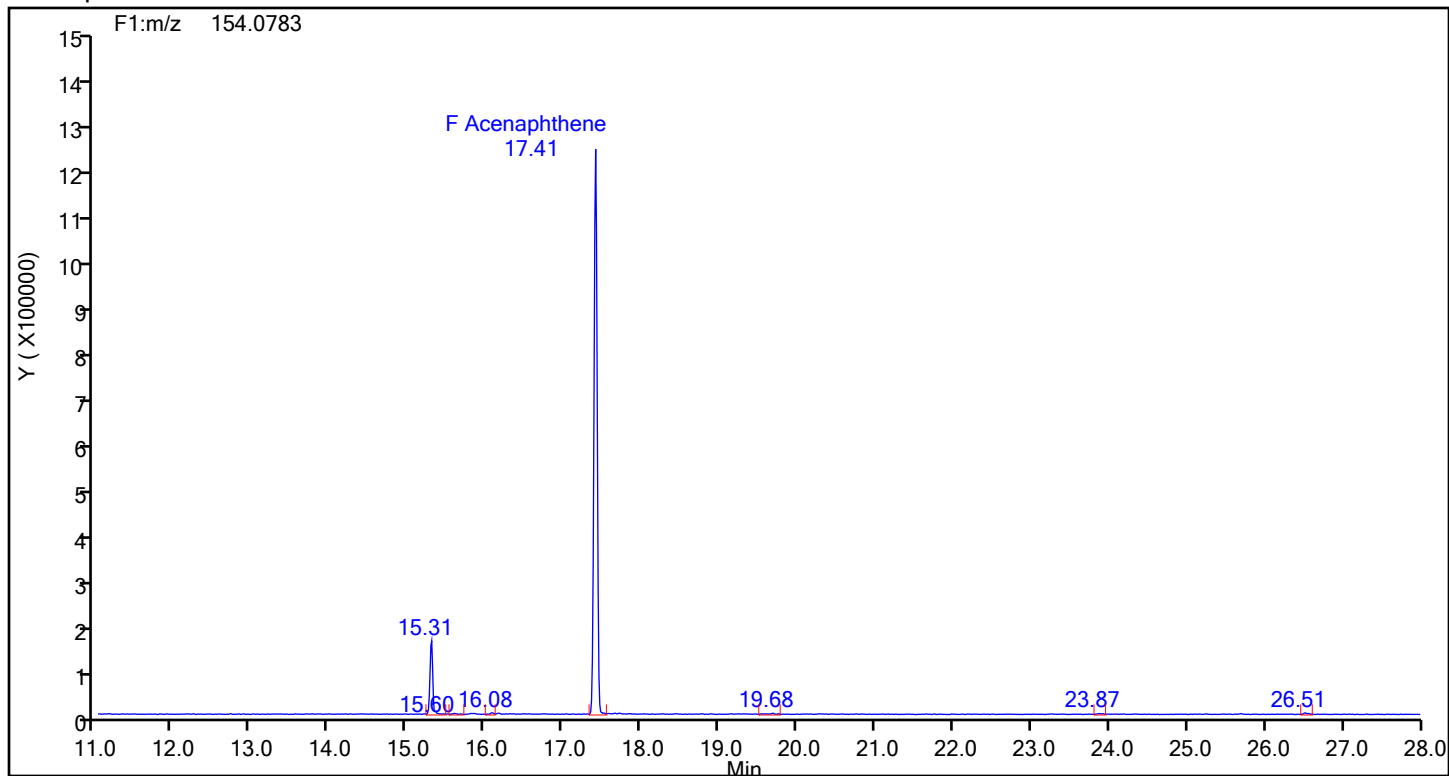
Worklist#: 87921

Sample Line#: 3

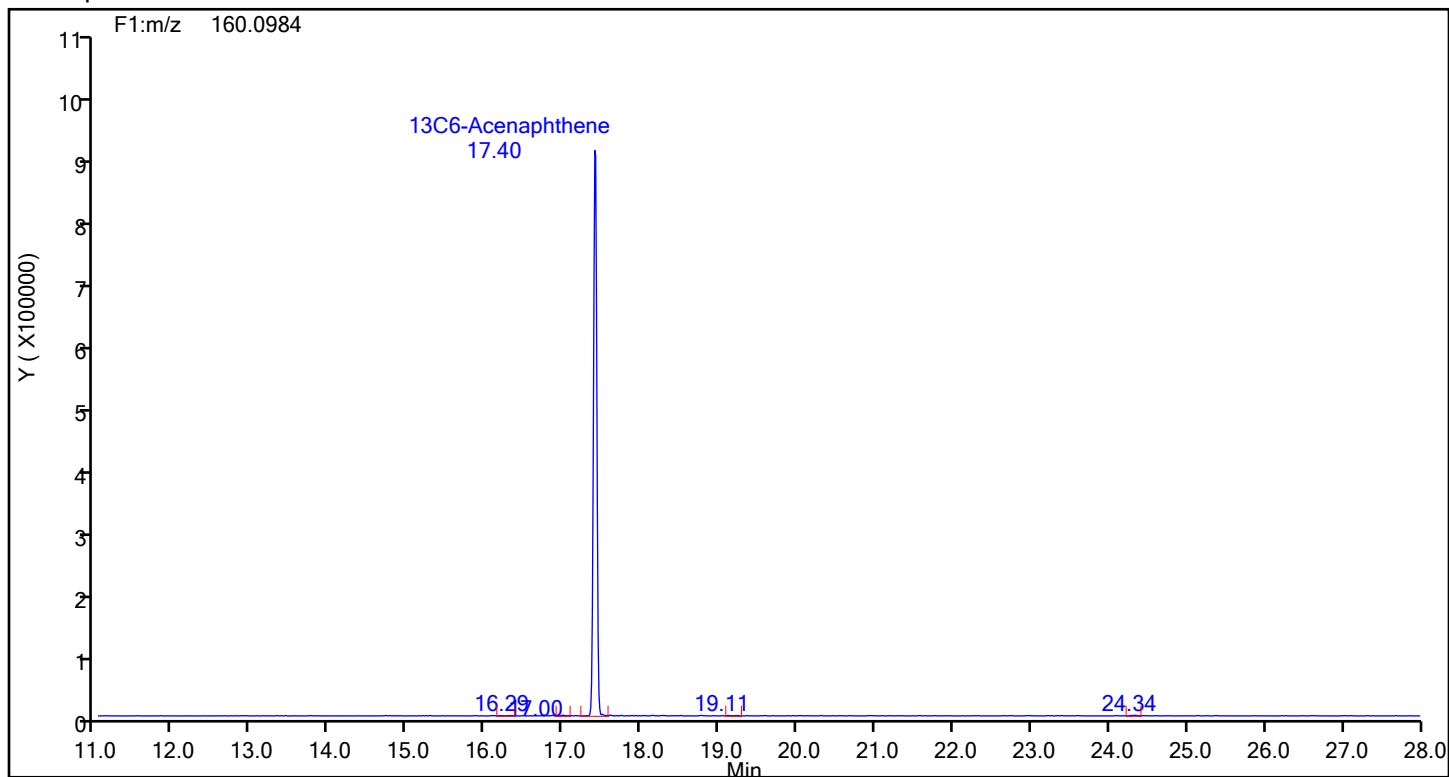
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Acenaphthene



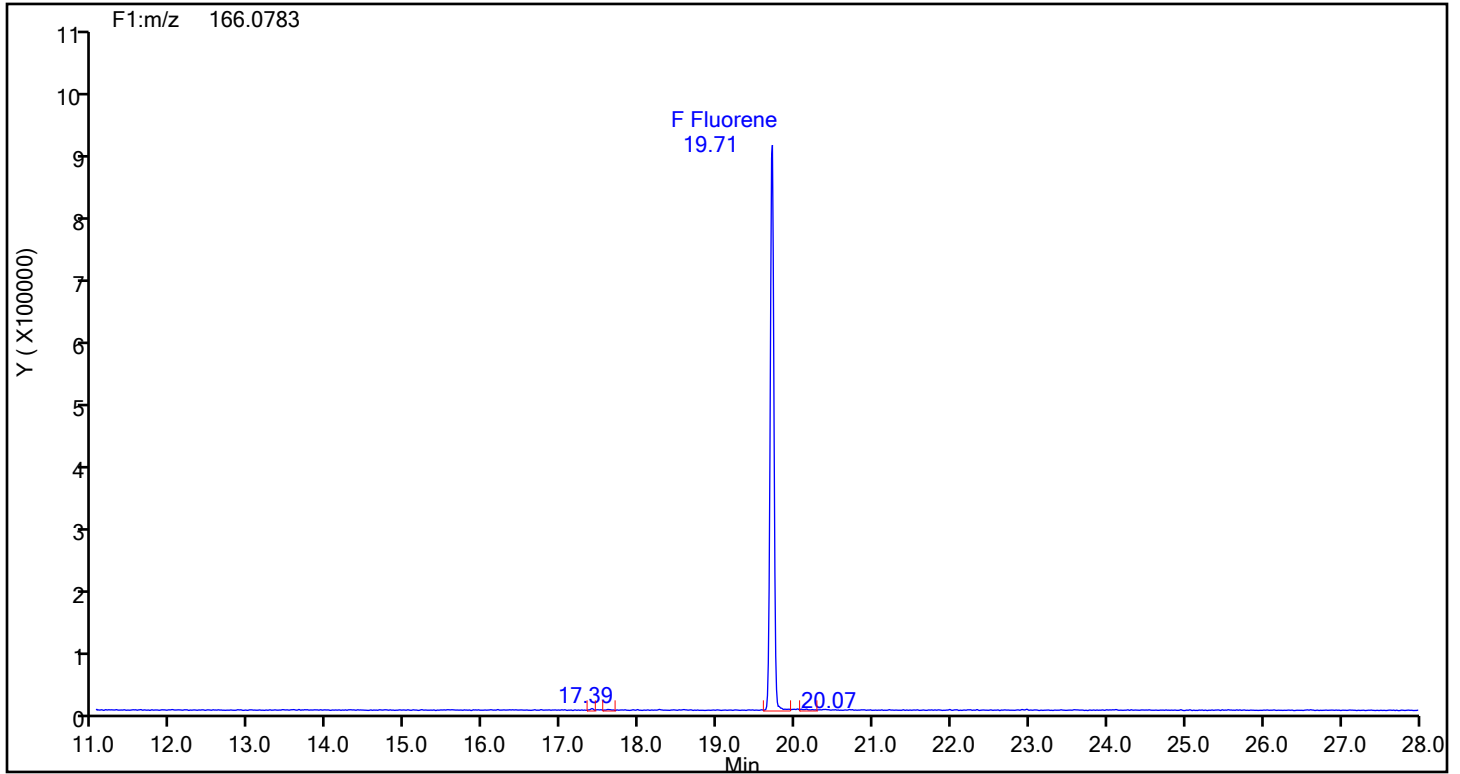
Acenaphthene Standards



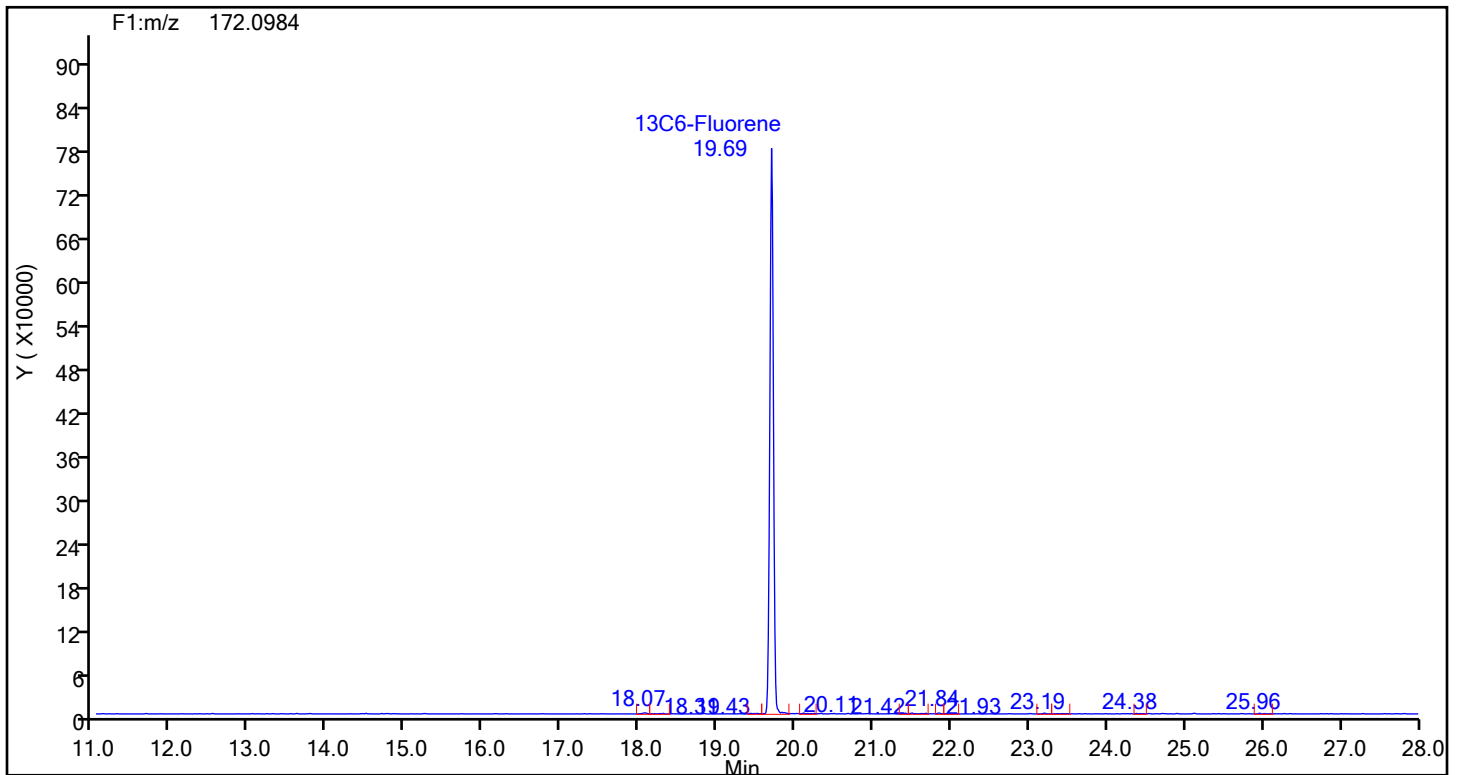
Eurofins Knoxville

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Injection Date: 21-Jun-2024 03:12:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



Fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d

Injection Date: 21-Jun-2024 03:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

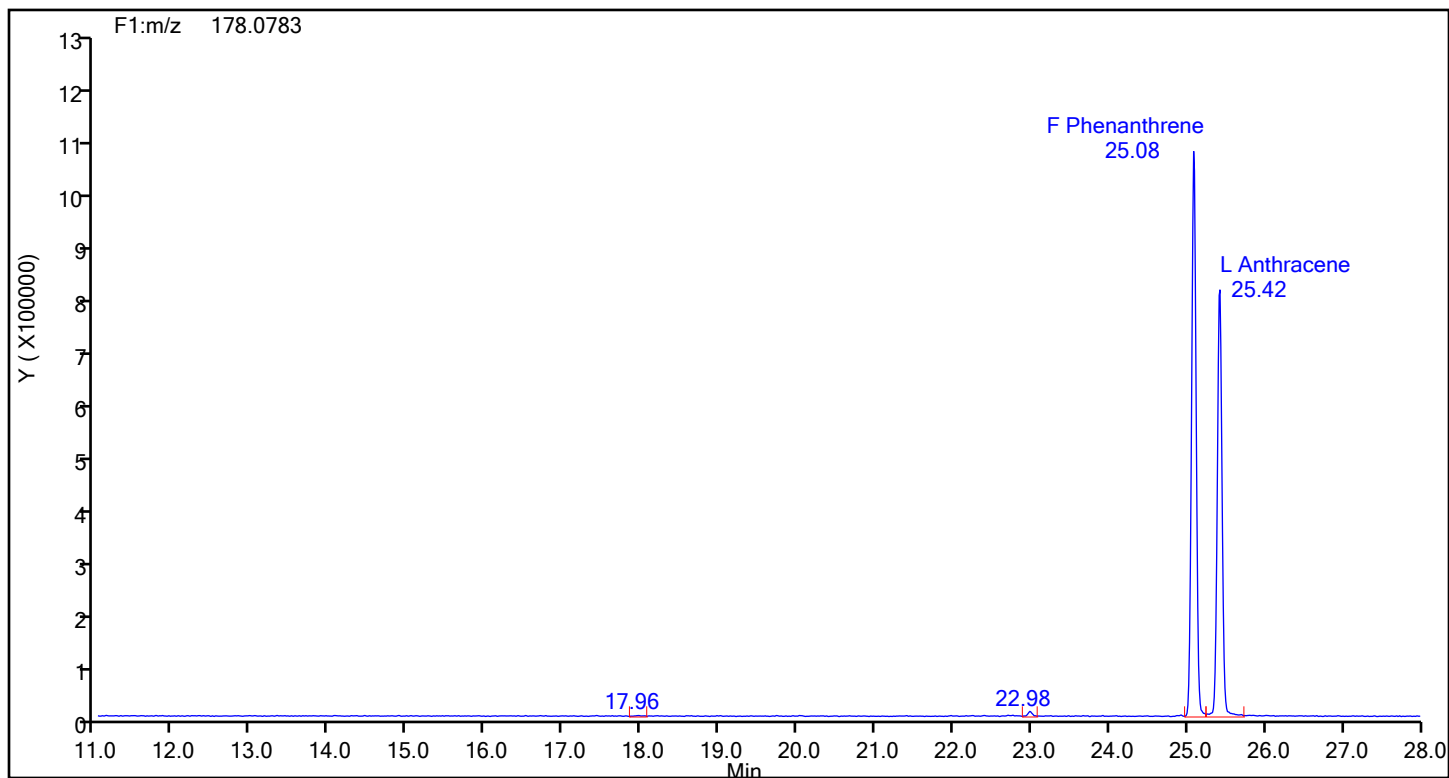
Worklist#: 87921

Sample Line#: 3

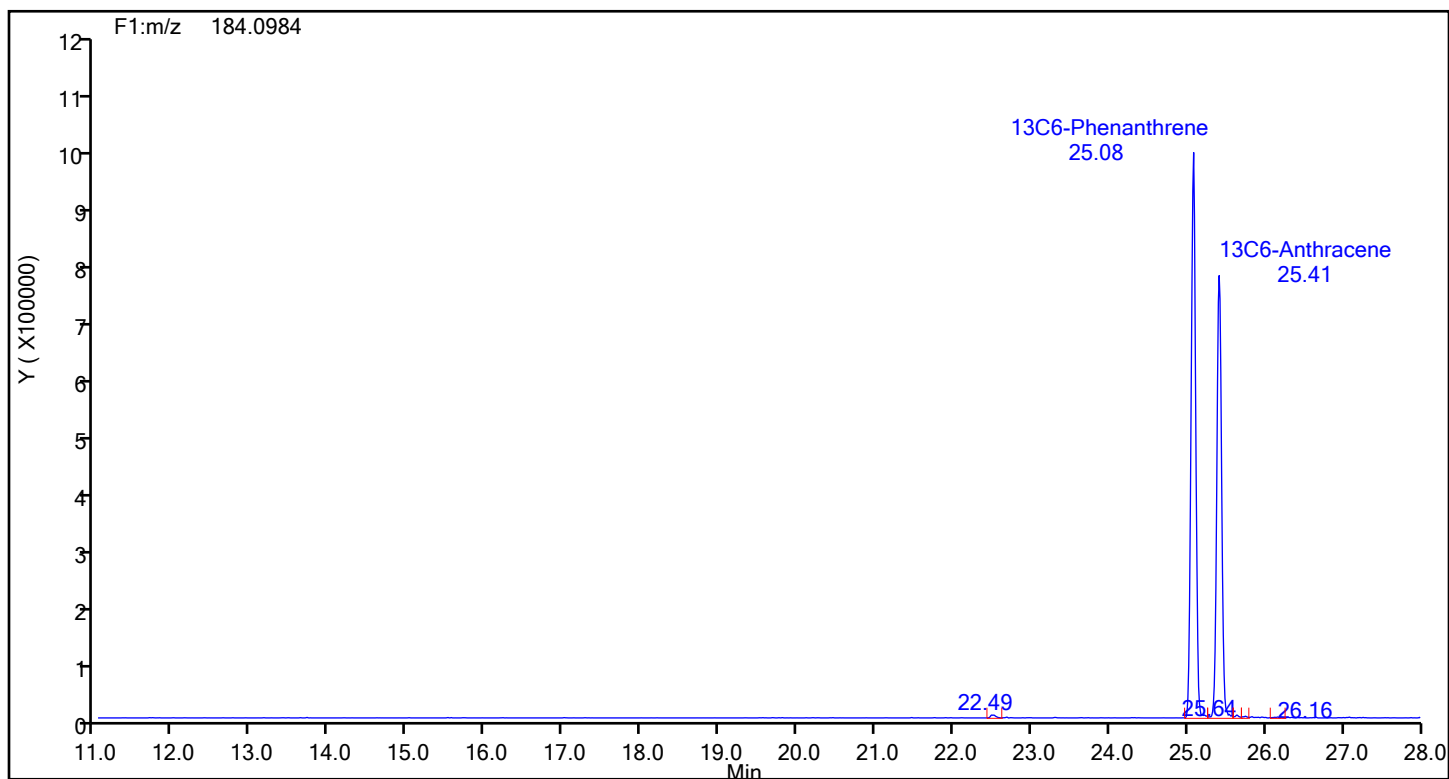
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Phenanthrene

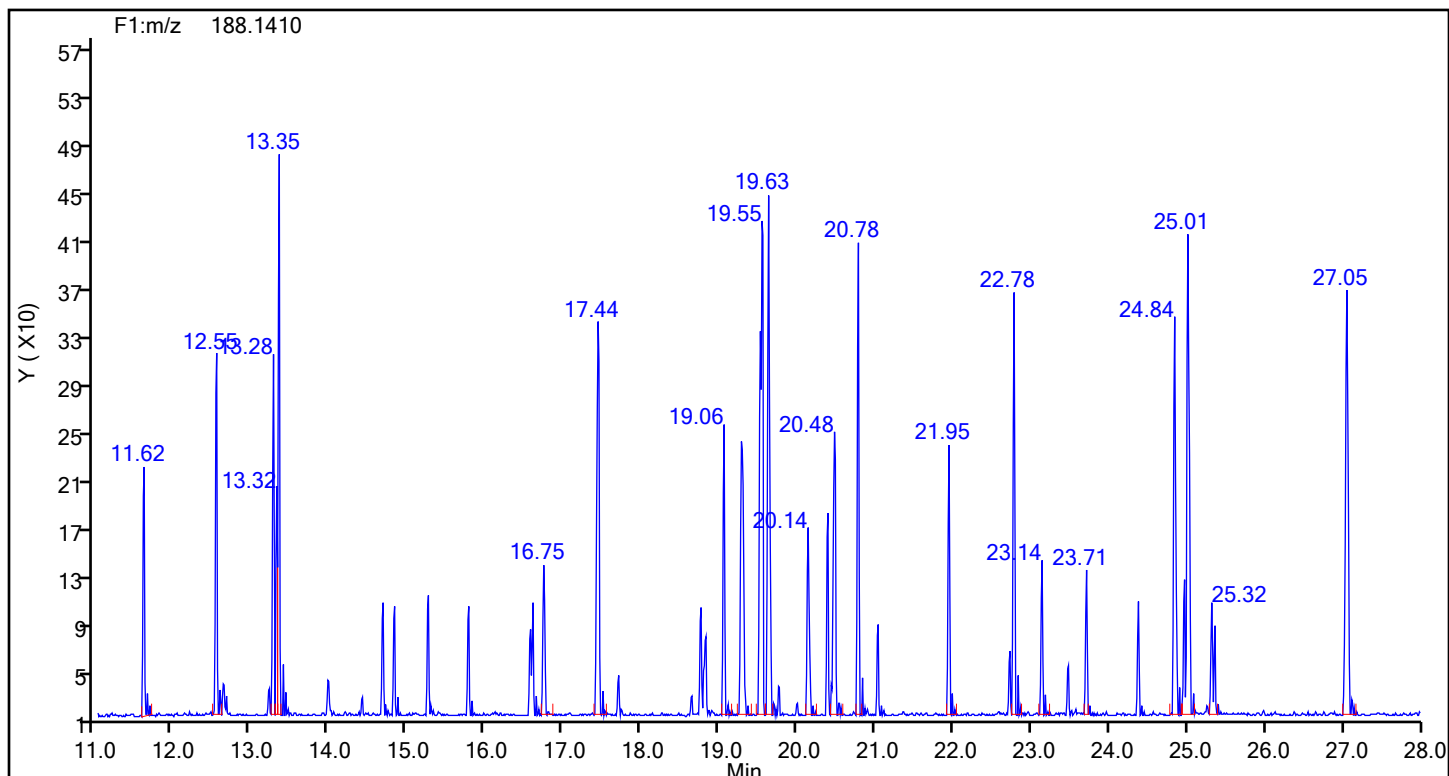


Phenanthrene Standards

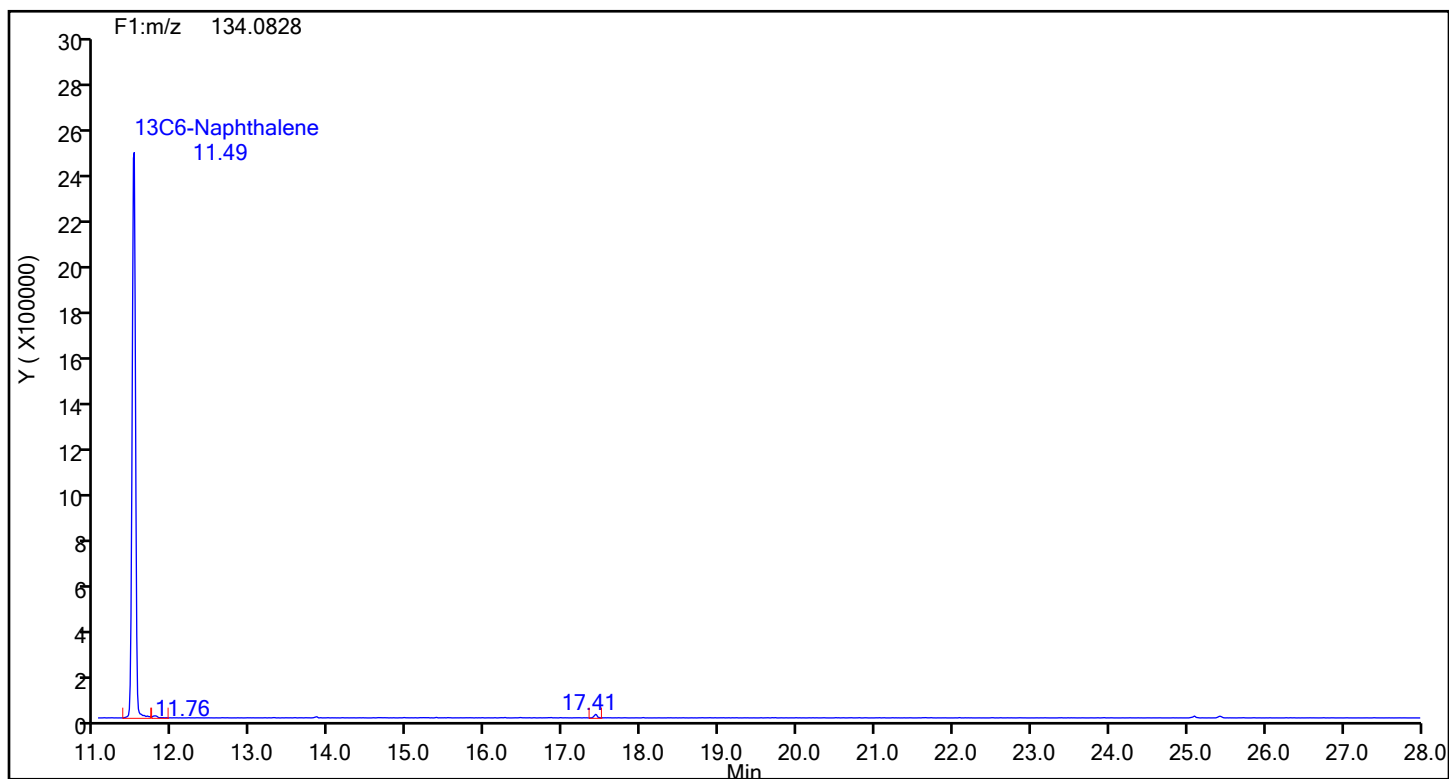


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d
Injection Date: 21-Jun-2024 03:12:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

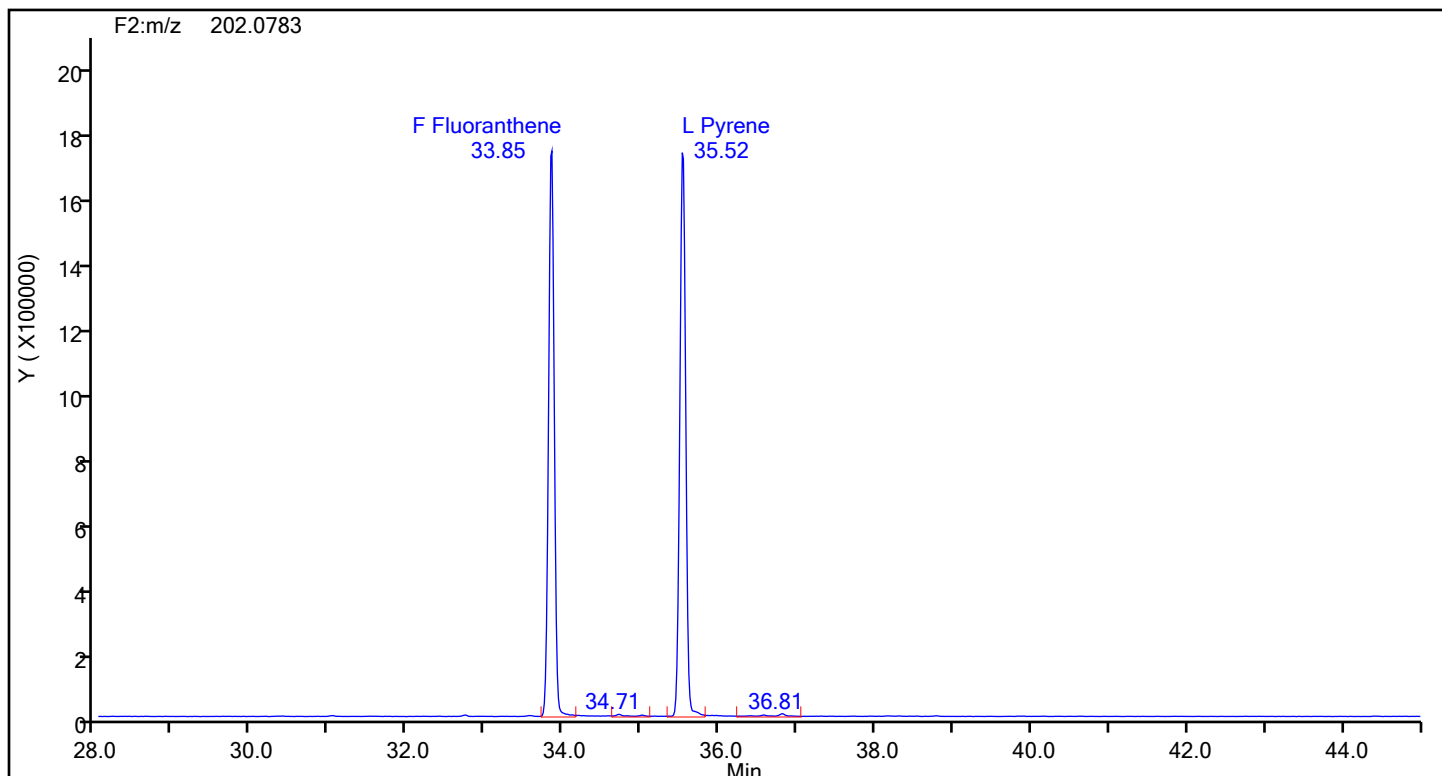


Anthracin-d10 Standards

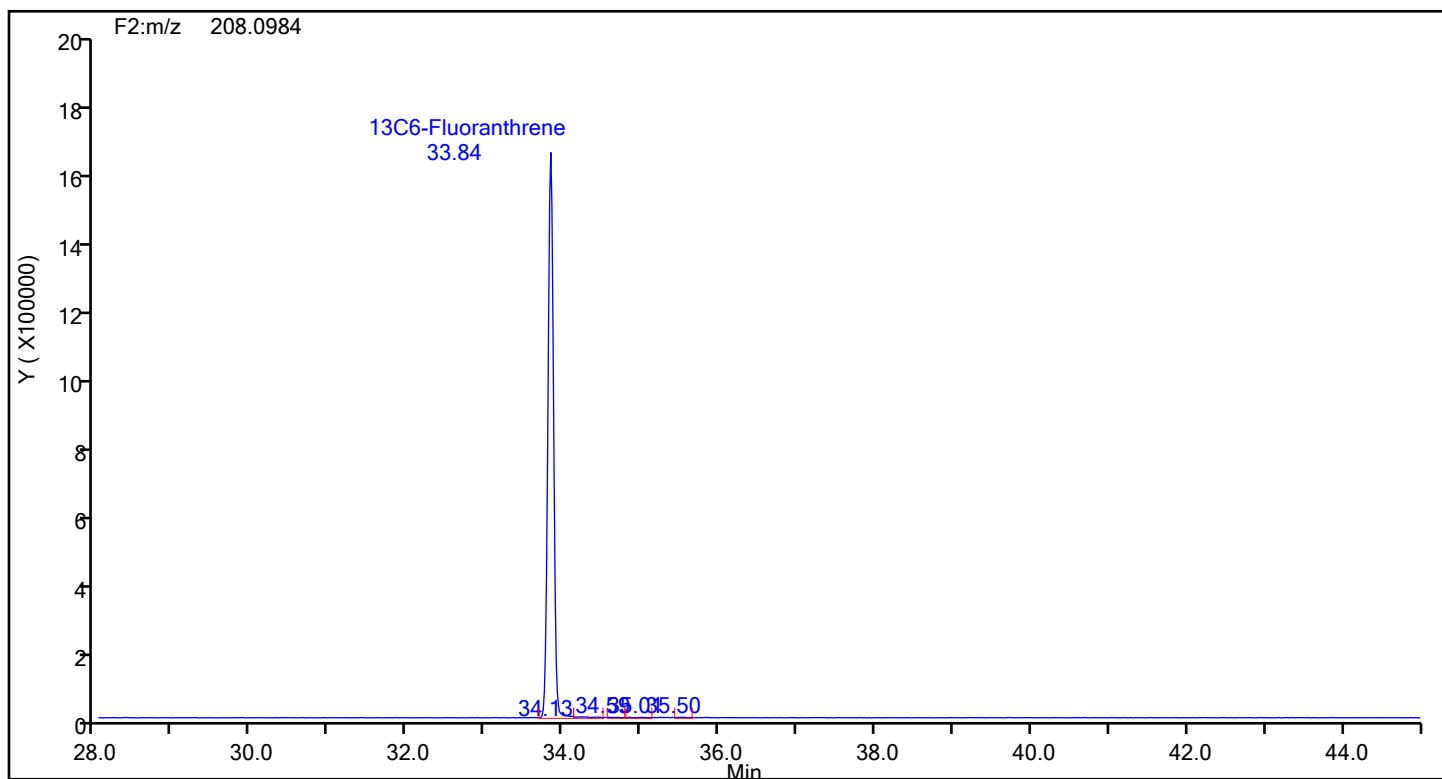


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d
Injection Date: 21-Jun-2024 03:12:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene

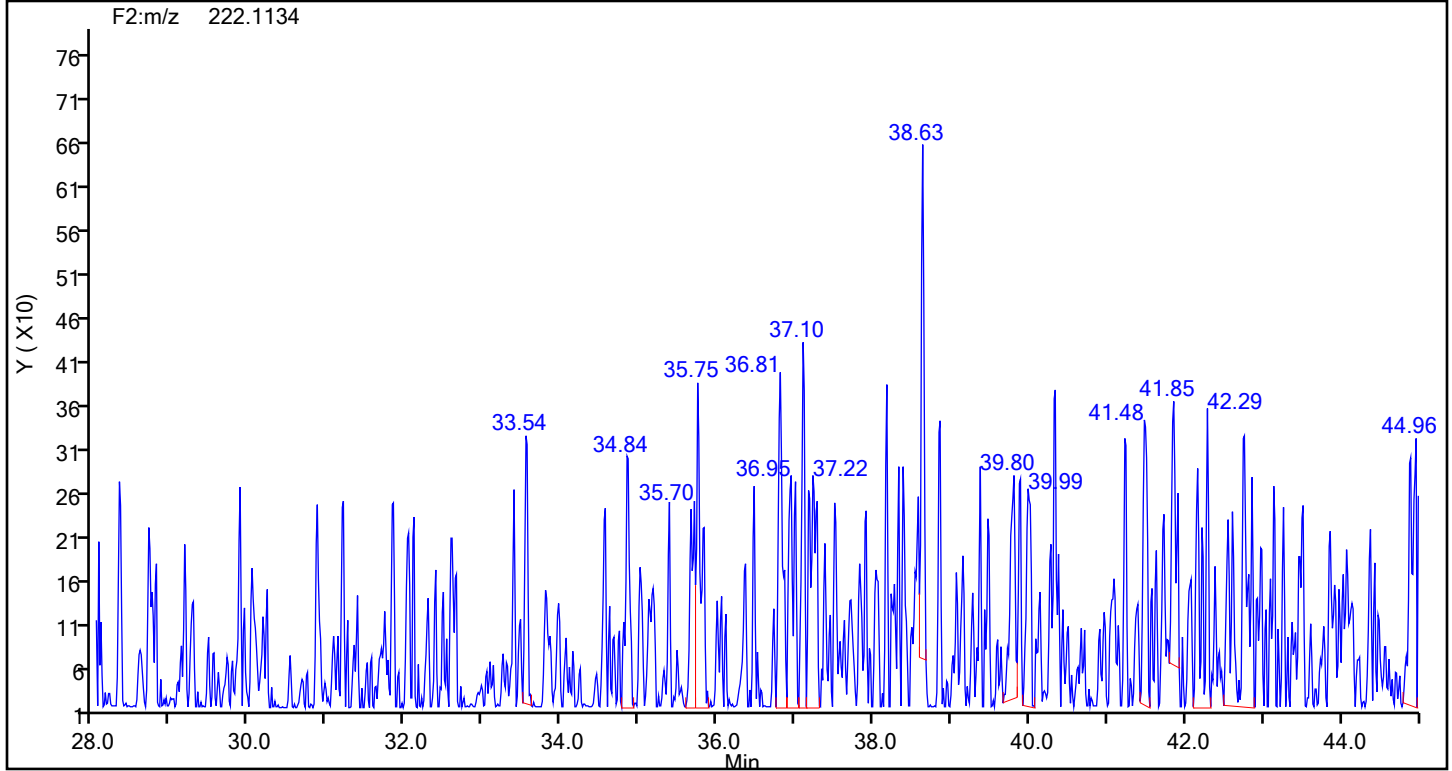


Fluoranthene Standards

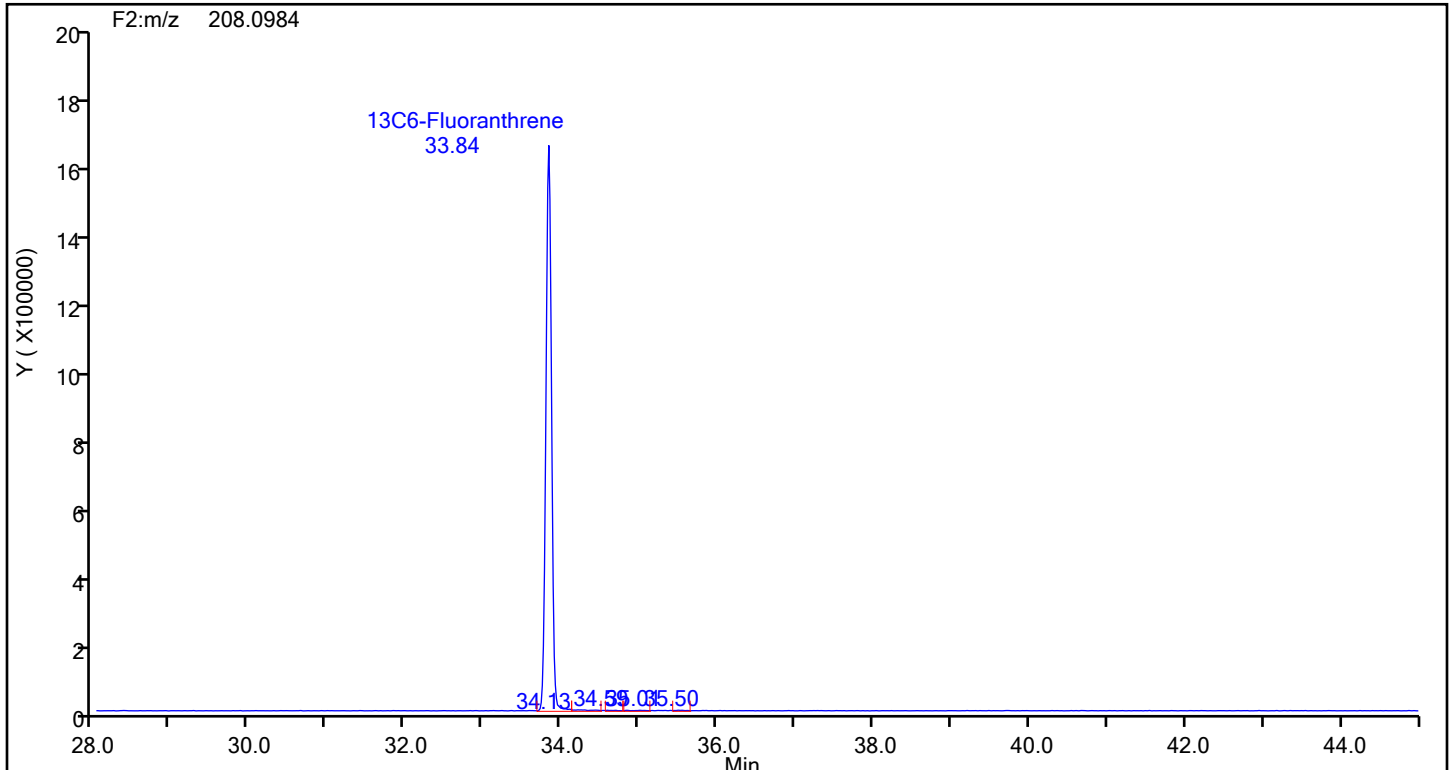


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d
Injection Date: 21-Jun-2024 03:12:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 87921 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C6-Benzo(c)fluorene



13C6-Benzo(c)fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d

Injection Date: 21-Jun-2024 03:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

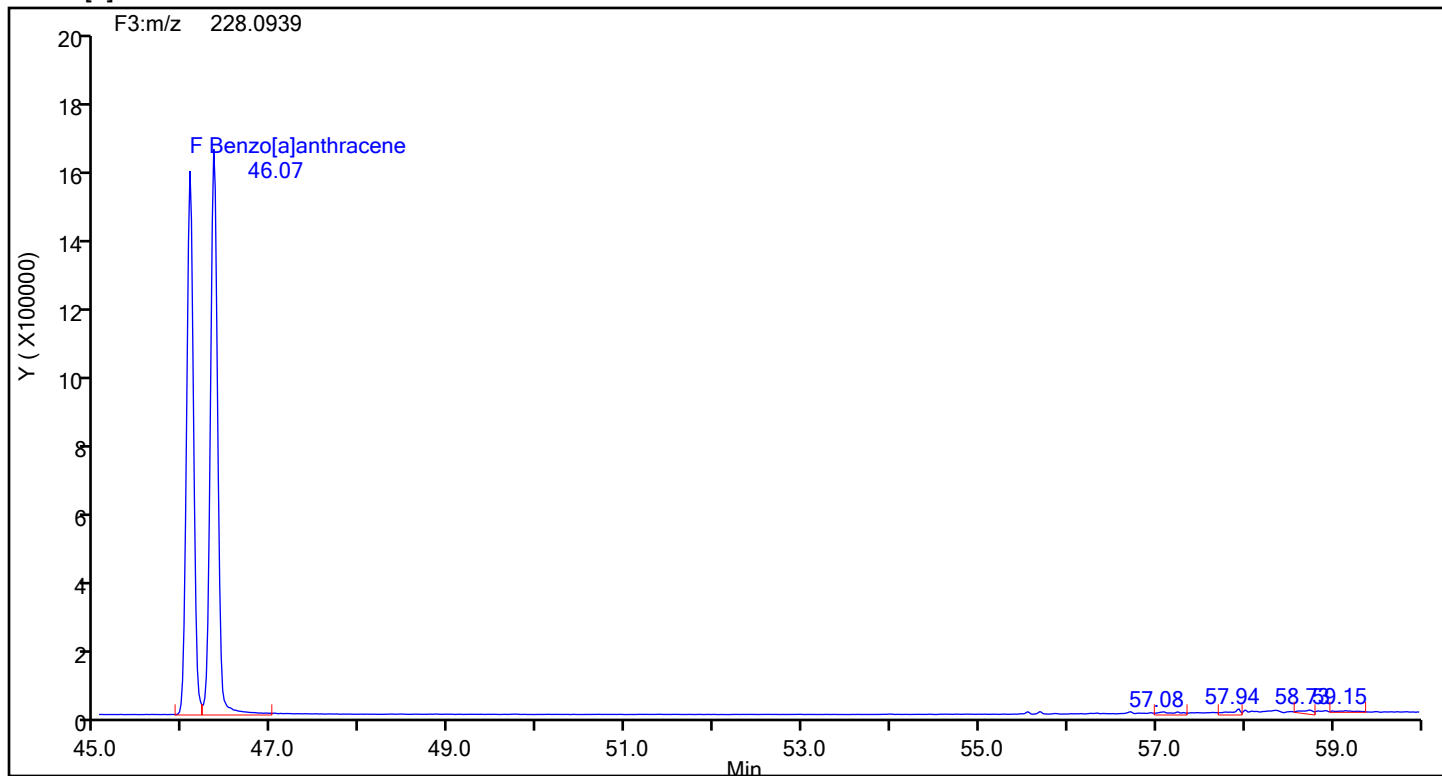
Worklist#: 87921

Sample Line#: 3

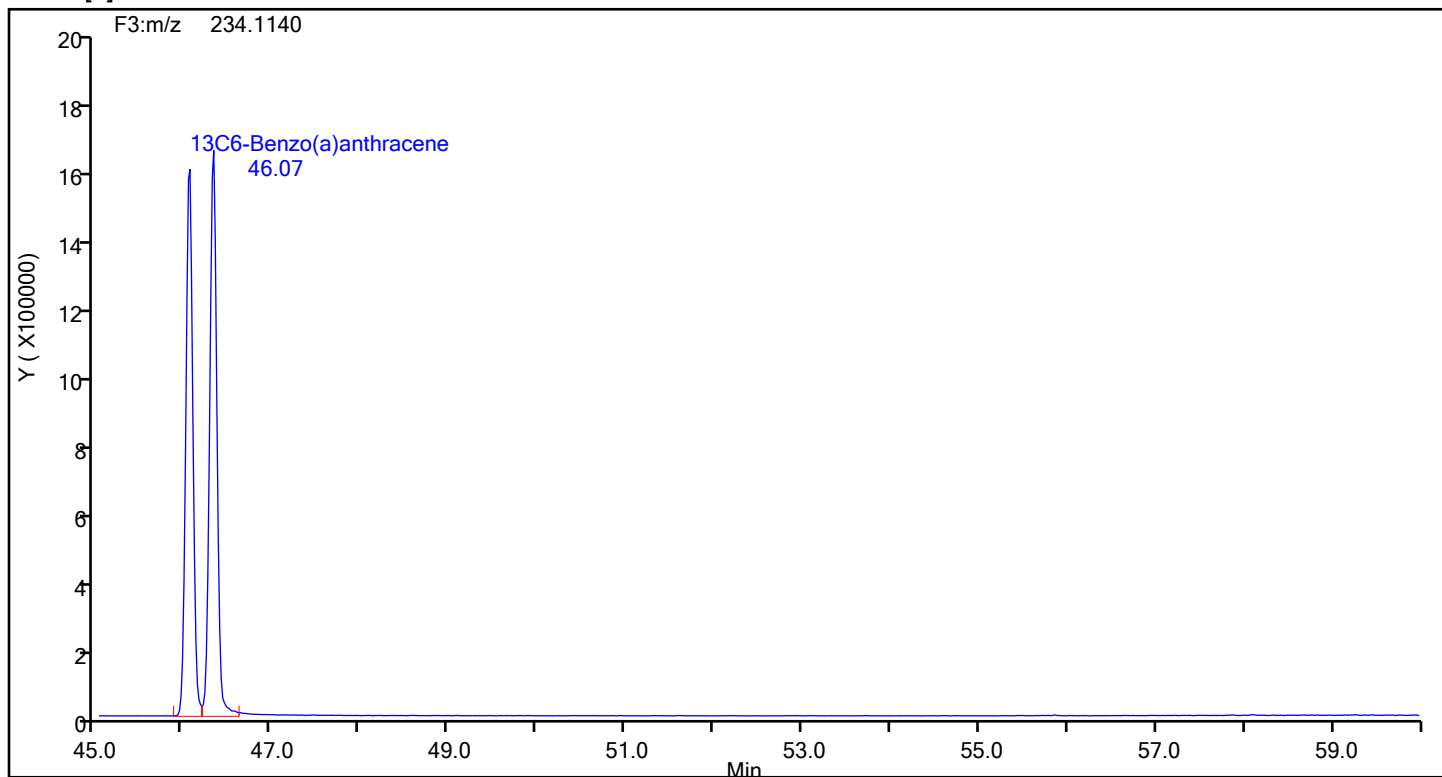
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[a]anthracene



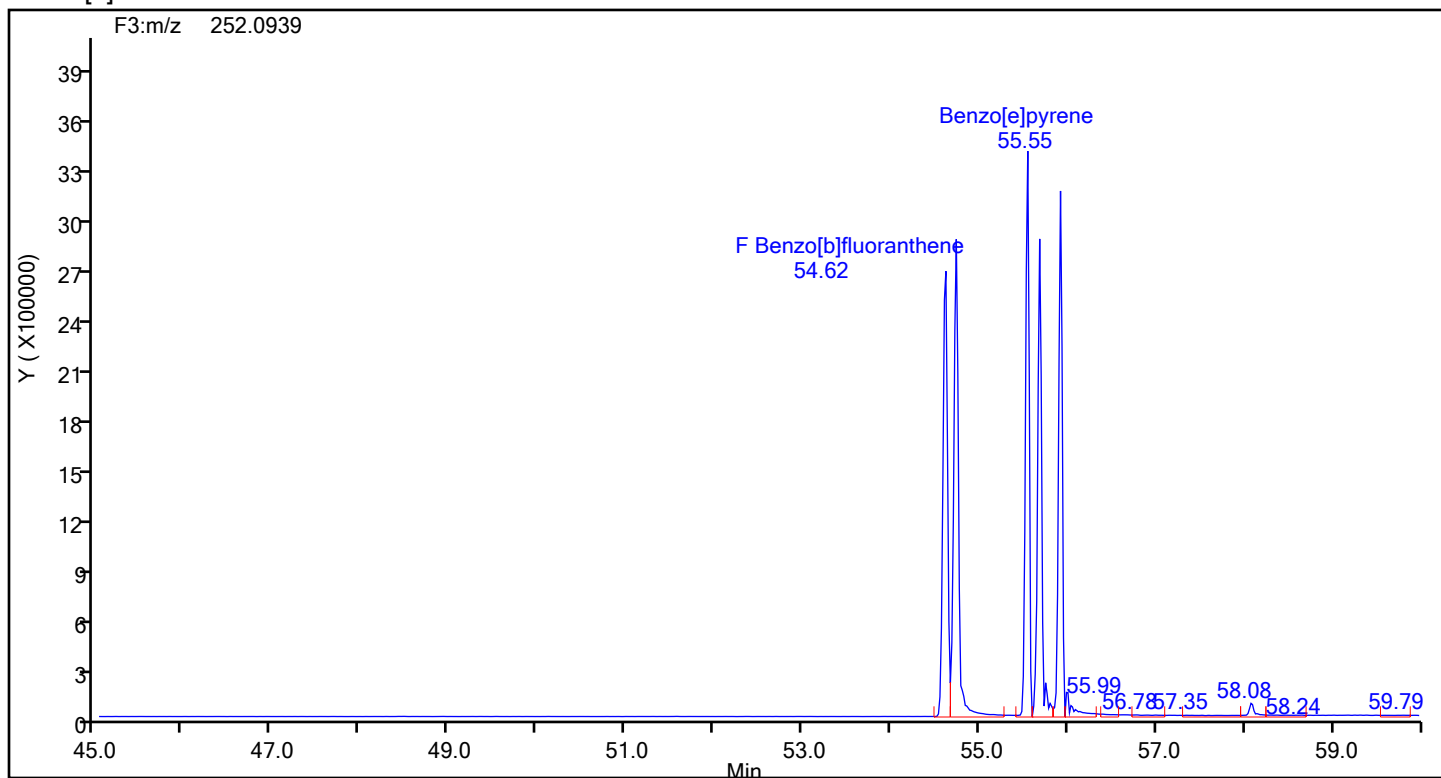
Benzo[a]anthracene Standards



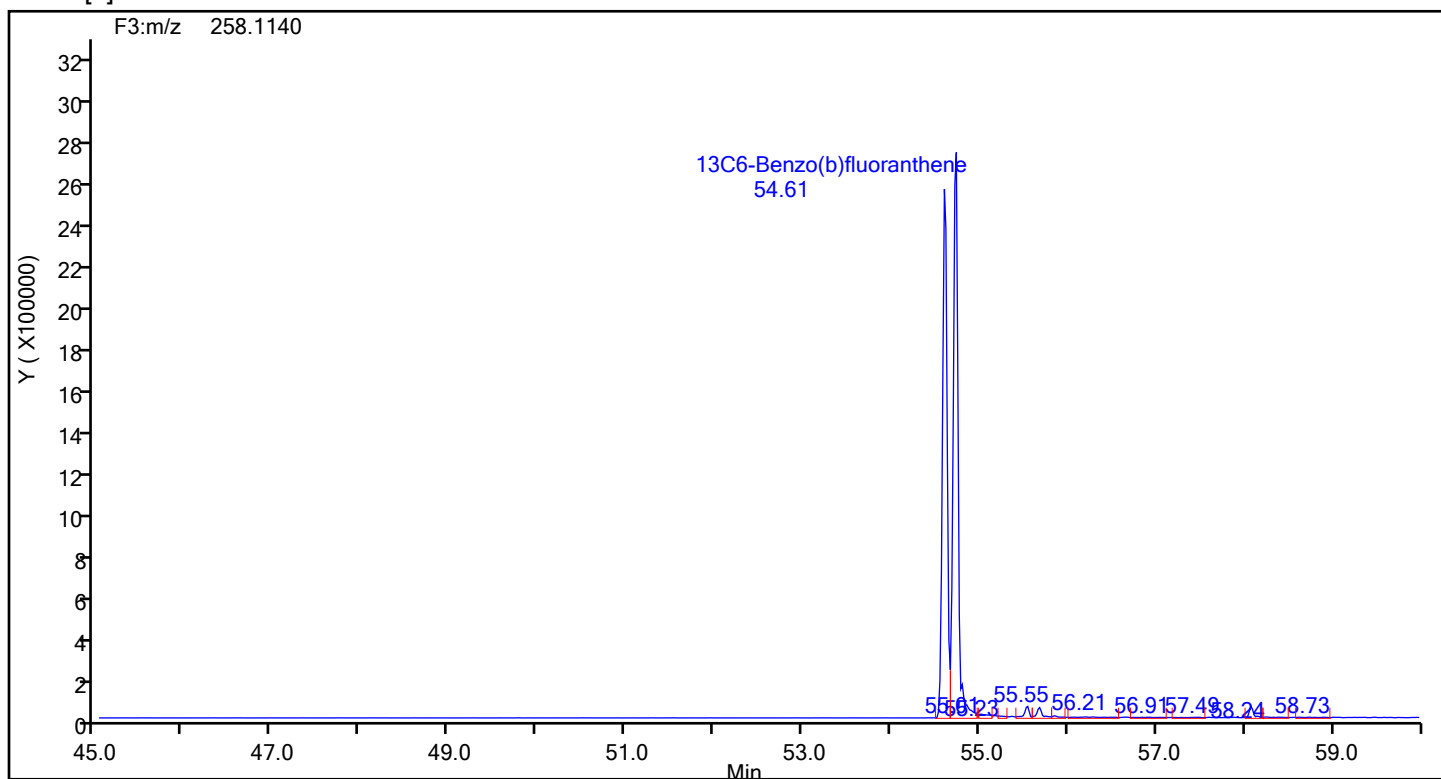
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d
Injection Date: 21-Jun-2024 03:12:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



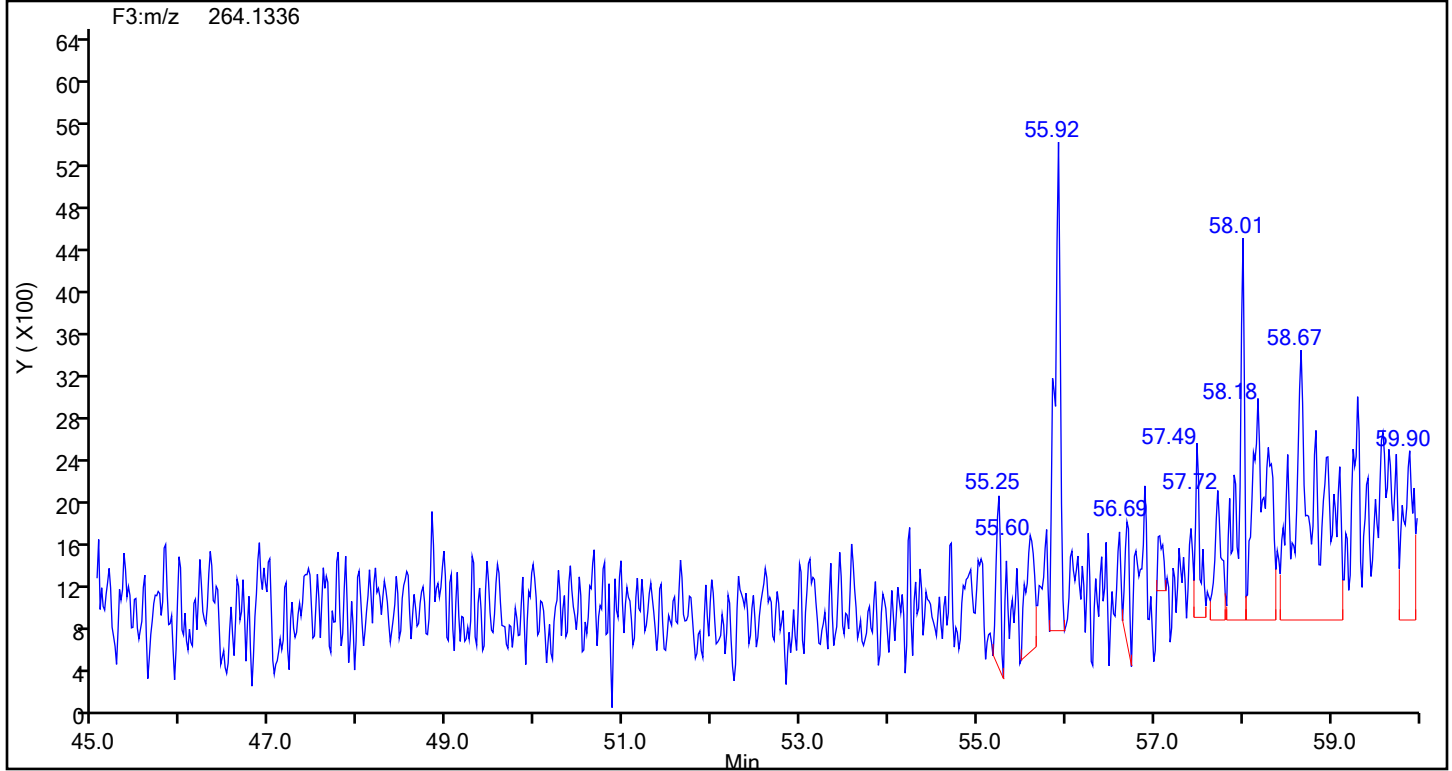
Benzo[b]fluoranthene Standards



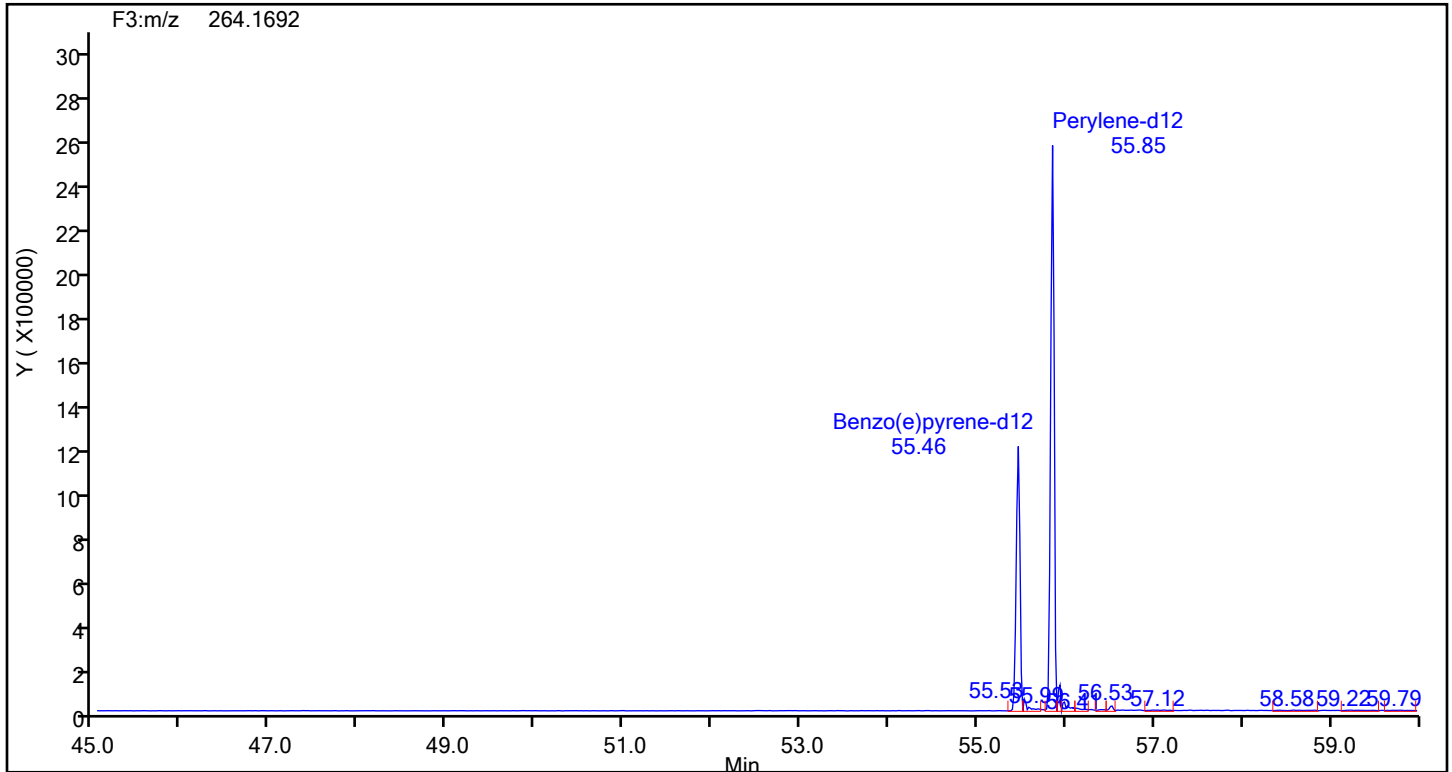
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d
Injection Date: 21-Jun-2024 03:12:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



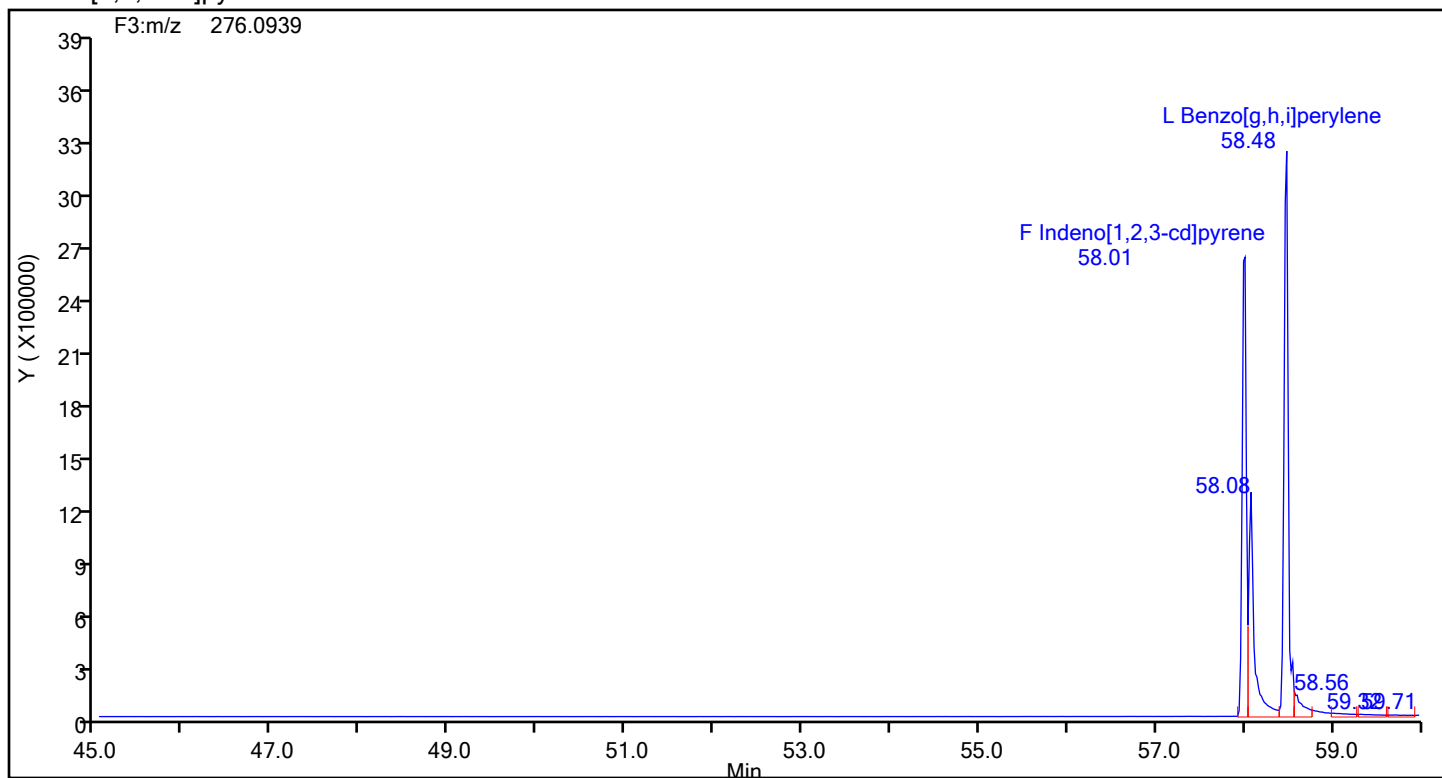
13C12-Benzo(j)fluoranthene Standards



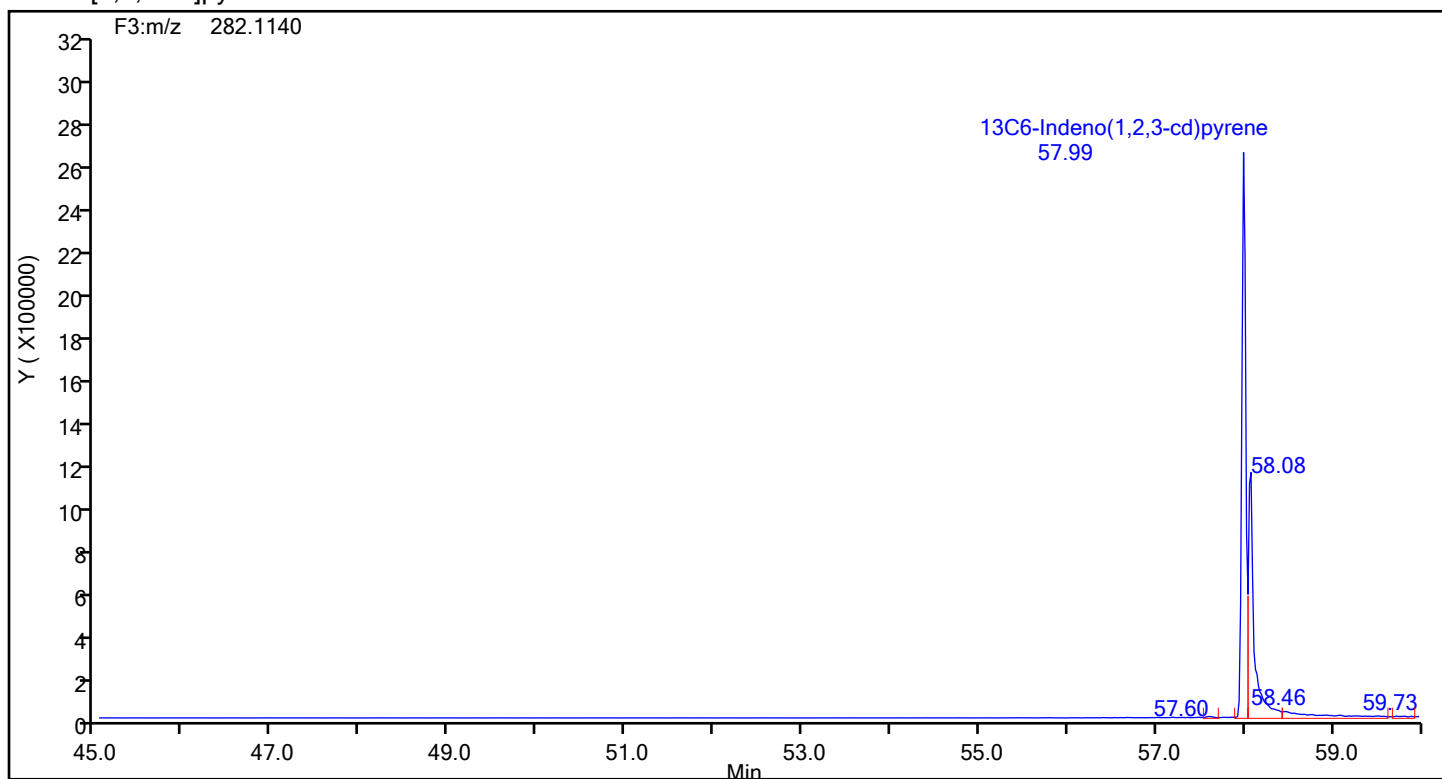
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d
Injection Date: 21-Jun-2024 03:12:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

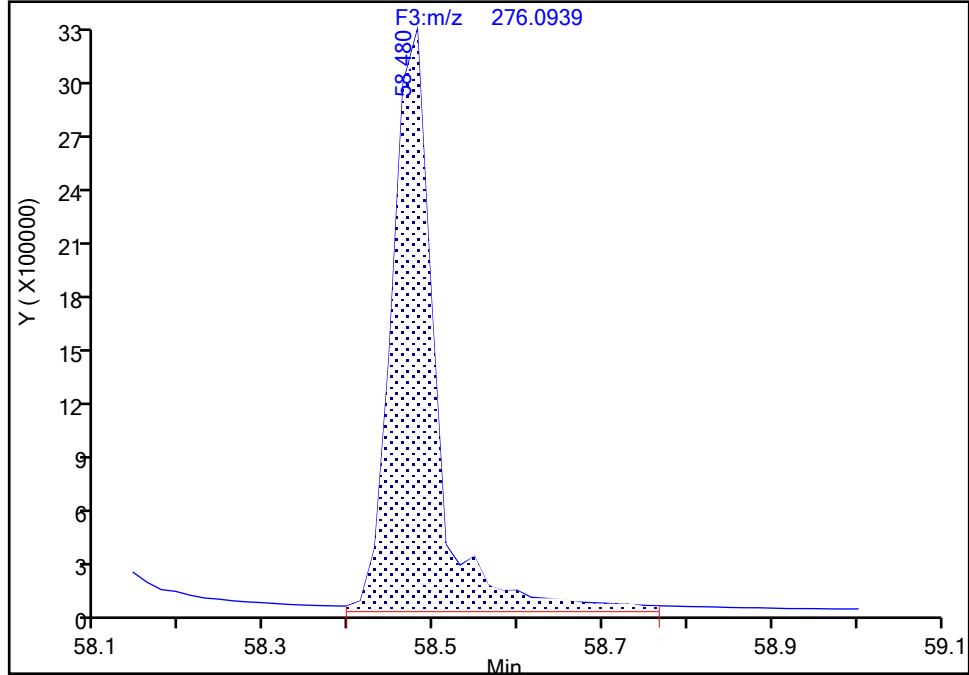
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Lims ID: LCSD 140-87205/16-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

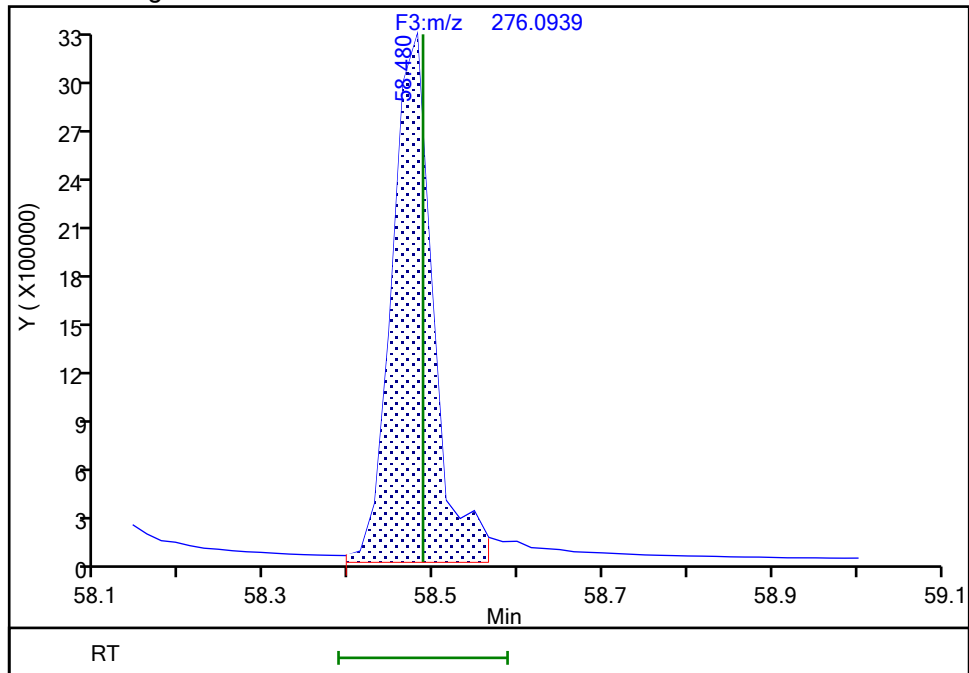
RT: 58.48
Area: 11631001
Amount: 95.464791
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 10858479
Amount: 89.124094
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 15:15:32 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

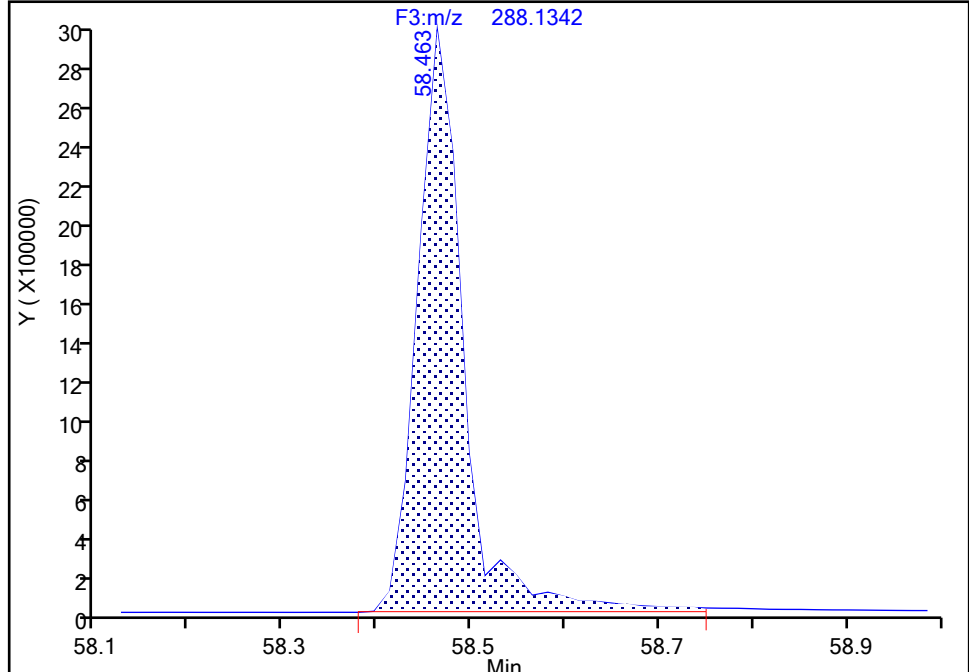
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d
Injection Date: 21-Jun-2024 03:12:00 Instrument ID: D3PAH
Lims ID: LCSD 140-87205/16-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

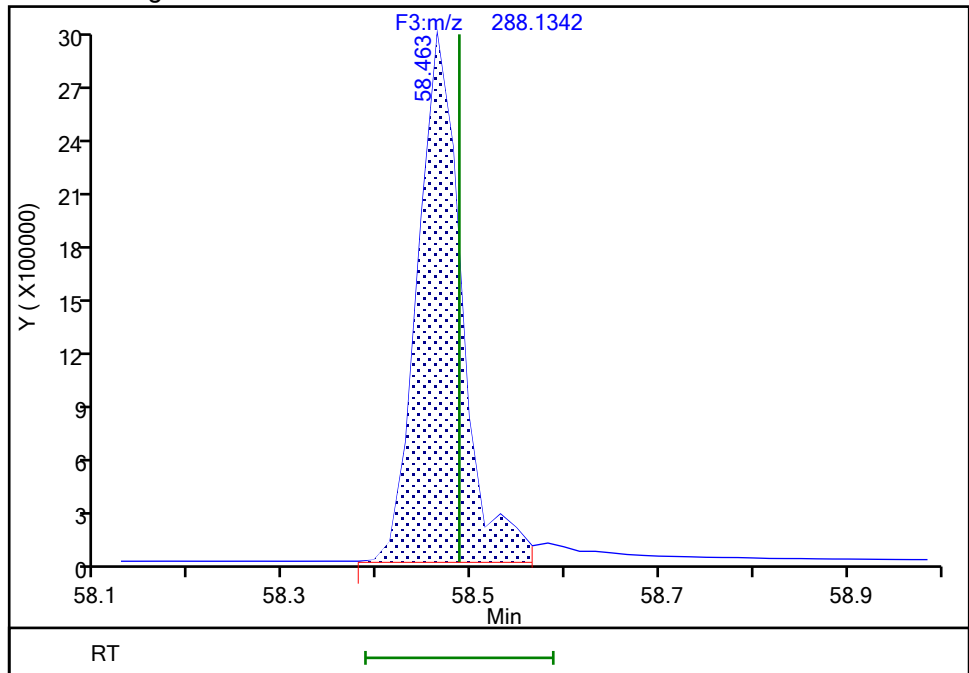
RT: 58.46
Area: 9989572
Amount: 110.7589
Amount Units: pg/ul

Processing Integration Results



RT: 58.46
Area: 9490551
Amount: 105.2260
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 15:15:27 -04:00:00 (UTC)

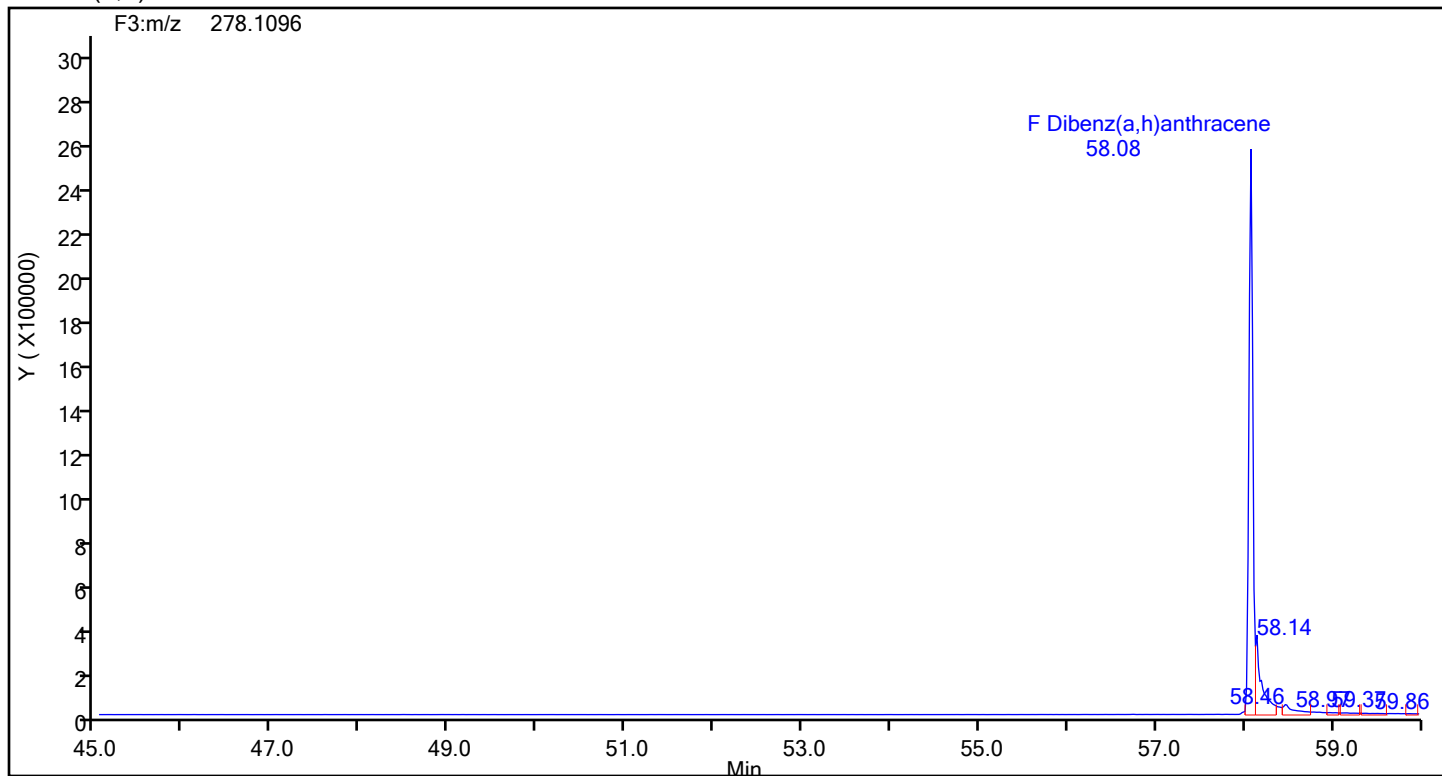
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

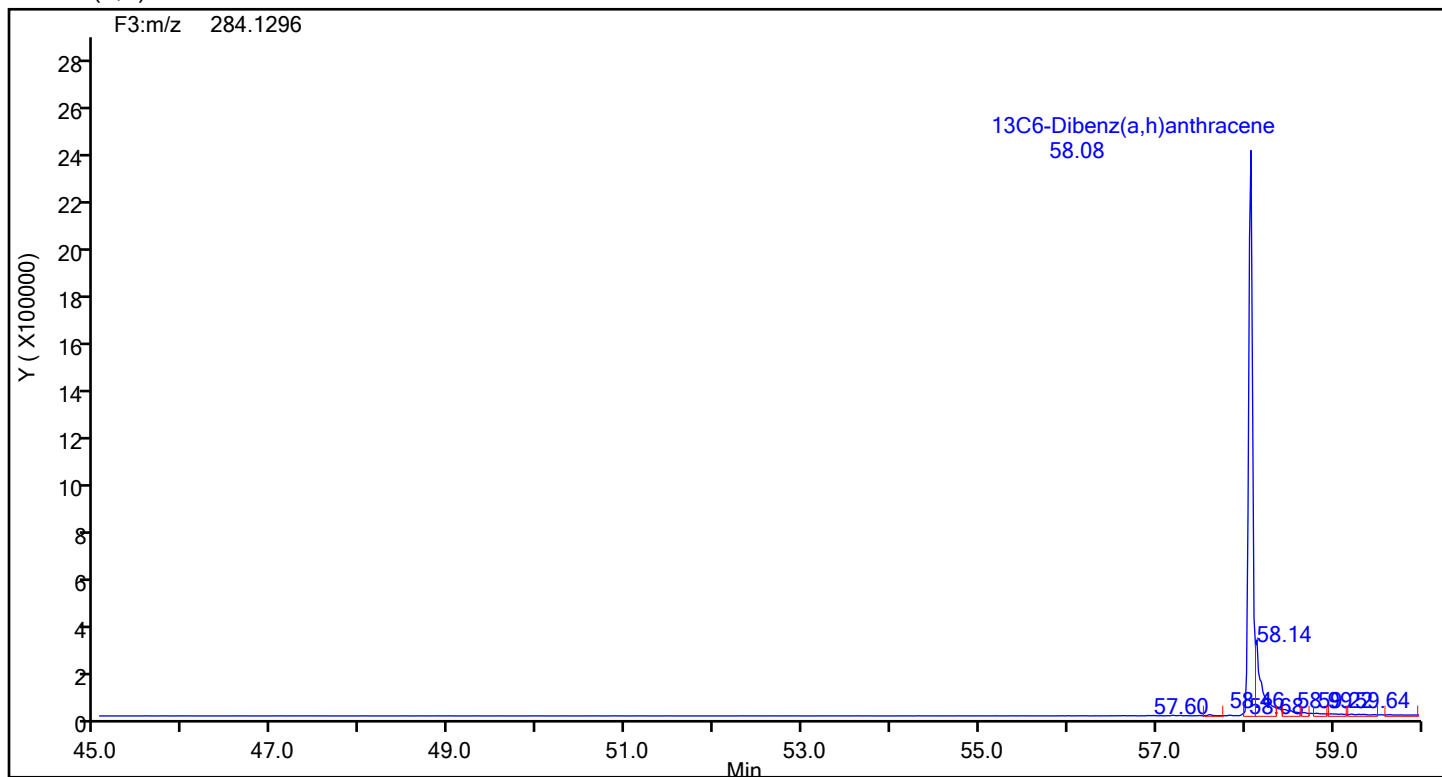
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d
Injection Date: 21-Jun-2024 03:12:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87921 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

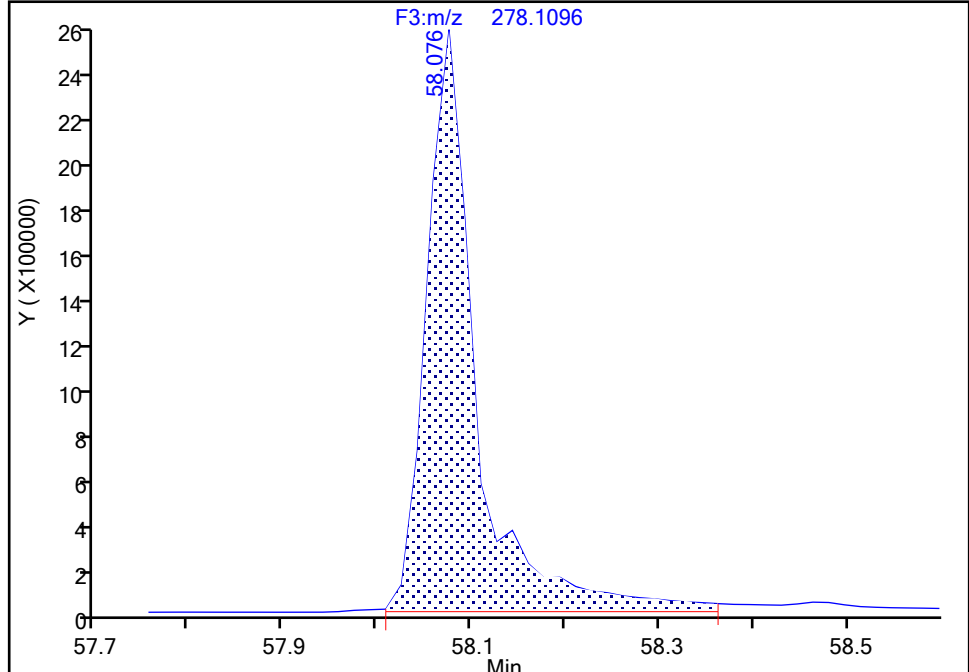
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d
Injection Date: 21-Jun-2024 03:12:00 Instrument ID: D3PAH
Lims ID: LCSD 140-87205/16-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

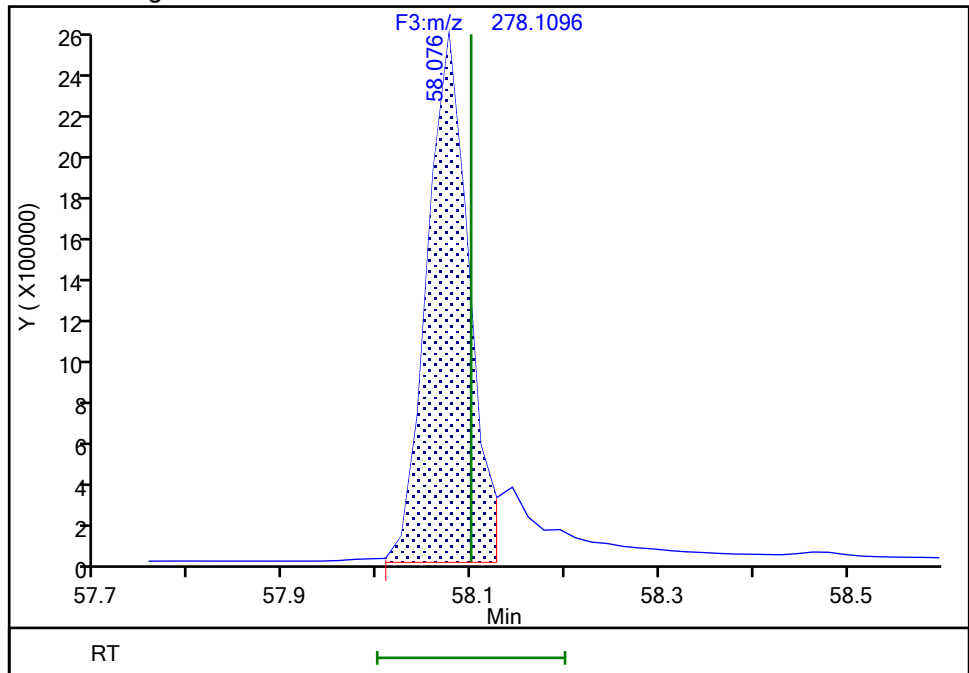
RT: 58.08
Area: 9588013
Amount: 110.6416
Amount Units: pg/ul

Processing Integration Results



RT: 58.08
Area: 8038716
Amount: 92.763355
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 15:15:20 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

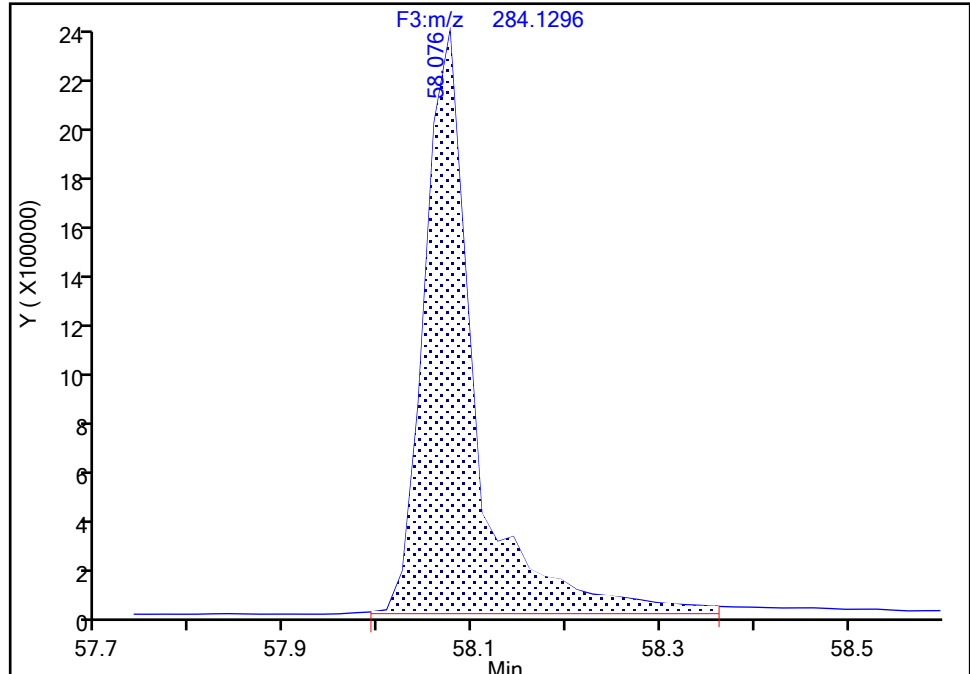
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240620-33201.b\lcsd140-8720516-b.d
Injection Date: 21-Jun-2024 03:12:00 Instrument ID: D3PAH
Lims ID: LCSD 140-87205/16-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

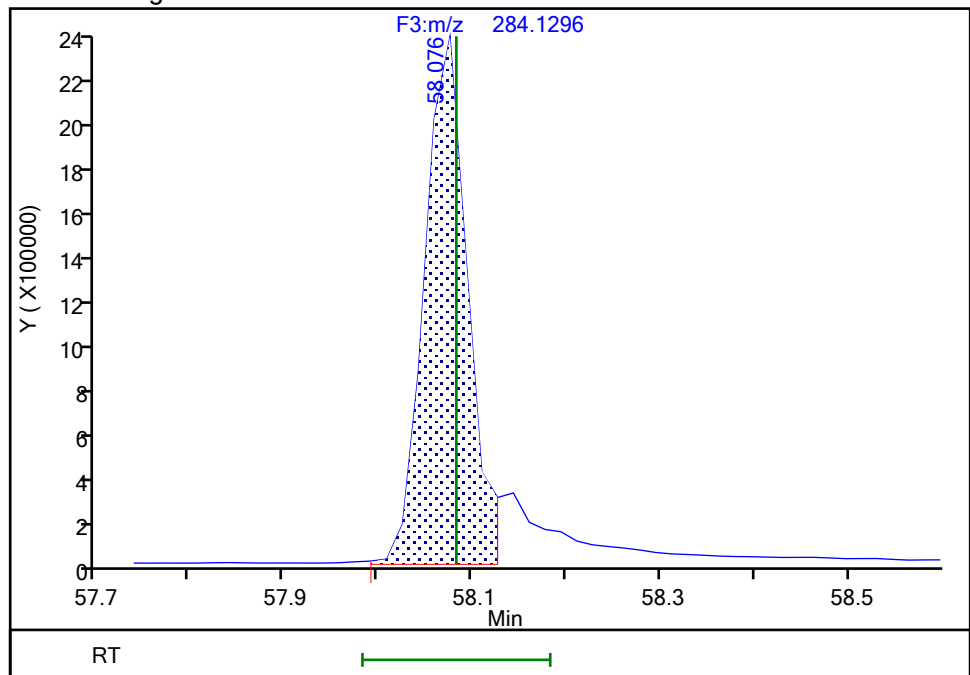
RT: 58.08
Area: 9041680
Amount: 121.1114
Amount Units: pg/ul

Processing Integration Results



RT: 58.08
Area: 7659566
Amount: 102.5983
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 21-Jun-2024 15:15:12 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D3PAH Start Date: 06/19/2024 16:34

Analysis Batch Number: 87843 End Date: 06/20/2024 02:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 140-87843/1		06/19/2024 16:34	1	d3240619ic1.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/2		06/19/2024 17:38	1	d3240619ic2.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/3		06/19/2024 18:42	1	d3240619ic3.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/4		06/19/2024 19:47	1	d3240619ic4.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/5		06/19/2024 20:51	1	d3240619ic5.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/6		06/19/2024 21:56	1	d3240619ic6.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/7		06/19/2024 23:00	1	d3240619ic7.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/8		06/20/2024 00:04	1	d3240619ic8.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/9		06/20/2024 01:09	1	d3240619ic9.d	Rxi-5SilMS 25 0.25 (mm)
ICV 140-87843/10		06/20/2024 02:46	1	d3240619icv.d	Rxi-5SilMS 25 0.25 (mm)

Eurofins TestAmerica Knoxville Initial Calibration Review Checklist

Method: 1699 by KNOX-ID-0019, Rev. 0

11RPAH

Instrument:	D3PAH		1699 Pesticide
Analysis Date:	4/20/24	TALS Batch / Event #	82843 / 5149
Mass Res Check Time:	11:18		/
Chrom WL#:	33168		/

Chrom Worklist/Peak Review	1 st	Comments/NCM#	2 nd
1.Re-read each limit group in the Chrom method.	✓		
2.Are the reagents & init./final vol. correct?	✓		/
3.First levels "unlock/clear" or "unlock/clear by sublist" as appropriate?	✓		/
4.Are the Cal Levels & groups correct in WL?	✓		/
5.Was the mass resolution documented at the beginning of the initial calibration?	✓		/
6.Was the instrument resolution 8,000 >10000 throughout the FC43?	✓		/
7.Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		/
8.Have the ICAL mixes 1-9 been analyzed using the installed column to assign method retention times and MID switch points?	✓		/
9.Are the calibration standard solutions at the concentrations specified in the SOP?	✓	x in development	/
10.At least 5 points used in the calibration (6 for quadratic)?			/
11.Does the lowest active point support the RL?	✗	NA in development	/
12.Was the absolute retention time for Methoxychlor greater than 39 minutes in the CSS standard?	NA		/
13.Were all standards injected within 12 hours of the time of the mass resolution check?	✓		/
14.Was the ICAL high point standard checked for saturation?	✓		/
15.Is the S/N for all labeled analytes $\geq 10:1$? Is the S/N for targets \geq the RL $\geq 6:1$? Is the S/N for targets $<$ RL $\geq 3:1$?	✓		/
16.Are the ion abundance ratios for all native and labeled compounds within the limits?	NA	single im	/
17.If manual integrations were performed, are they appropriate with proper reason given?	✓		/
18.Was the Endrin and 4,4'-DDT breakdown check analyzed after the ICAL and breakdown less than 20%?	NA		/

Chrom MLG Review	1 st	Comments/NCM#	2 nd
19.Are ICAL start/end dates/times correct on summary?	✓		/
20.Is the % RSD acceptable (within 55% 20%) for all labeled standards?	✓		/
21.Is the % RSD acceptable for all native analytes (within 20% calculated by IDAs, and within 25% 10% when not calculated by IDAs)?	✓		/
22.Is the readback for each point within criteria? ($\leq 30\%$ for all points $>$ RL, $\leq 50\%$ for points at RL and lower)	✓		/
23.Was an ICV analyzed and meet the limits according the SOP?	✓		/
24.Is low level standard at or below RL?	NA	x in development	/
25.Lock the Chrom method and upload ICAL & ICV.	✓		/

Continued on next page

Eurofins TestAmerica Knoxville Initial Calibration Review Checklist

Method: ~~1699~~ by ~~KNOX-ID-0019~~, Rev. 0

HRPAH

TALS MLG Review		1 st	Comments	2 nd
26. Graphics uploaded?		✓		✓
27. All points are in the most recent active calibration event #?		✓		✓
28. Verify the reagents have not expired.		✓		✓
29. Was the mass resolution check AND breakdown check scanned and attached?		✓		✓
30. If criteria not met, was a NCM generated?		NA		✓
31. After review in TALS, approve the calibration in TALS		✓		✓
32. Checklist scanned & attached properly?		-N/A-		✓
1 st Level	Date:	6/20/24	2 nd Level	Date: 6-20-24
Comments:		Comments:		

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D3PAH Start Date: 06/21/2024 00:53

Analysis Batch Number: 87921 End Date: 06/21/2024 10:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-87921/1		06/21/2024 00:53	1	d3240621c1a.d	Rxi-5SilMS 25 0.25 (mm)
LCS 140-87205/15-B		06/21/2024 02:08	1	lcs140-8720515-b.d	Rxi-5SilMS 25 0.25 (mm)
LCSD 140-87205/16-B		06/21/2024 03:12	1	lcsd140-8720516-b.d	Rxi-5SilMS 25 0.25 (mm)
MB 140-87205/17-B		06/21/2024 06:10	1	mb140-8720517-b.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/21/2024 07:14	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/21/2024 08:18	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/21/2024 09:23	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/21/2024 10:30	1		Rxi-5SilMS 25 0.25 (mm)

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist

Method 1699 by KNOX-ID-0019, Rev. 0

H-RPAH

Instrument:	D3PAH	Start mass Res:	00:43
Analysis Date:	6-21-24	End Mass Res:	11:35
Chrom WL #:	33201	CS3 File name:	d3240621c1a
TALS Batch #:	87921	Breakdown Std:	
ICAL Chrom WL #:	33168		
ICAL TALS Batch / Event #:	87843 / 5149		

CCV Chrom/Worklist Review	1 st	Comments/NCM #	2 nd
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	/		/
2. Were all standards & samples injected within the 12 hour clock?	/		/
3. Was the instrument resolution >8,000 ^{10,000} in the center of each m/z range for the FC43 masses as listed in the SOP.	/		/
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	/		/
5. Are the reagents used in the WL correct?	/		/
6. Were the MID switch points set to encompass the retention time of each MID group?	/		/
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	/		/
8. Manual integrations properly performed and correct reason given?	/		/
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	/		/
10. Is the S/N for all target and labeled analytes $\geq 10:1$?	/		/
11. Are the ion abundance ratios for all labeled and unlabeled analytes within the limits?	NA	single ion	/
12. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	/		/
13. Are RRTs of all unlabeled analytes within their respective RRT limits?	/		/
14. Are % D within $\pm 50\%$ for all labeled IDA's?	/		/
15. Are % D within $\pm 25\%$ for all natives?	/		/
16. Was the absolute retention time for Methoxychlor greater than 39 minutes in the CS6 standard?	NA		/
17. Was the Endrin and 4,4'-DDT breakdown check analyzed after the CCAL and breakdown less than 20%?	NA		/

Batch Chrom/TALS review	1 st	Comments/NCM #	2 nd
1. Were the prep factors and dilution factors verified?	/		/
2. Method blank or instrument blank analyzed before first sample in sequence?	/		/
3. Are all target analytes in the method blank < RL	NO	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt. 10x (NCM# _____) <input checked="" type="checkbox"/> MB-insuff samp (NCM# 56705)	/
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	/	<input type="checkbox"/> IDA - High (NCM# _____) <input type="checkbox"/> IDA - Low - S/N 10:1 (NCM# _____)	/
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	/	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	/
6. All runs - peaks ID'd correctly and false positives removed?	/		/
7. Manual integrations properly performed correctly and correct reason given?	/		/

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist

Method 1699 by KNOX-ID-0019, Rev. 0

H R P A H

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	/	<input type="checkbox"/> IDA – High (1) no effect (NCM# _____) Samples _____ Samples _____ _____ _____ <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____ _____ _____	<input type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# _____) Samples _____ Samples _____ _____ _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____ _____ _____	/
9. All sample and QC IDA, IS and surrogate ion ratios within QC limits?	NA	<input type="checkbox"/> Ion abundance ratio (s) outside limits (NCM# _____) single ion		/
10. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	/			/

Batch TALS Review	1st	Comments/NCM #	2nd
11. Graphics uploaded?	/		/
12. Sample special instructions verified?	/		/
13. Was the mass resolution checks AND the breakdown check attached to the appropriate CCV?	/		/
14. Was the correct ICAL used for quantitation? (Check ICAL event number in batch).	/		/
15. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	/	<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	/
16. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	NA	<input type="checkbox"/> (NCM# _____)	/
17. Are all positive within the upper calibration range?	/	<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM# _____)	/
18. Was a Post Dilution Spike technique used?	NA	<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	/
19. Suffixes assigned properly when needed (DL/RE)?	NA		/
20. Samples not reported set to "Acceptable" or "Rejected"	NA		/
21. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	/		/
22. Verify reagents have not expired.	/		/
23. Is the correct ICV from the ICAL linked?	/		/
24. Checklist scanned & attached properly?	/		/

1 st level: JMN by Lh	Date: 6-25-24	2 nd level: MAH by Lh	Date: 6-25-24
Comments:			

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D3PAH Start Date: 06/21/2024 16:12

Analysis Batch Number: 87947 End Date: 06/22/2024 04:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-87947/1		06/21/2024 16:12	1	d3240621c1c_20240621160938.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/21/2024 18:16	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/21/2024 19:20	1		Rxi-5SilMS 25 0.25 (mm)
140-36689-1	M23-NO.3 BOILER-RUN 1 COMBINED	06/21/2024 20:25	1	140-36689-a-1-d .d	Rxi-5SilMS 25 0.25 (mm)
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	06/21/2024 21:29	1	140-36689-a-2-d .d	Rxi-5SilMS 25 0.25 (mm)
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	06/21/2024 22:33	1	140-36689-a-3-d .d	Rxi-5SilMS 25 0.25 (mm)
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	06/21/2024 23:38	1	140-36689-a-4-d .d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/22/2024 01:55	1000		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/22/2024 03:00	1000		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/22/2024 04:04	1000		Rxi-5SilMS 25 0.25 (mm)

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist

Method ~~1699~~ by ~~KNOX-ID-0019~~, Rev. 0

H-RPA 4

Instrument:	D3PAH	Start mass Res:	15:08
Analysis Date:	6/21/24	End Mass Res:	1:40
Chrom WL #:	33215	CS3 File name:	d3240624.c1c
TALS Batch #:	67947	Breakdown Std:	
ICAL Chrom WL #:	33168		
ICAL TALS Batch / Event #:	87843 / 5149		

CCV Chrom/Worklist Review	1 st	Comments/NCM #	2 nd
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >8,000 ^{10,000} in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes $\geq 10:1$?	✓		✓
11. Are the ion abundance ratios for all labeled and unlabeled analytes within the limits?	NA	single ion	✓
12. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	✓		✓
13. Are RRTs of all unlabeled analytes within their respective RRT limits?	✓		✓
14. Are % D within $\pm 50\%$ for all labeled IDA's?	✓		✓
15. Are % D within $\pm 25\%$ for all natives?	✓		✓
16. Was the absolute retention time for Methoxychlor greater than 39 minutes in the CS6 standard?	NA		✓
17. Was the Endrin and 4,4'-DDT breakdown check analyzed after the CCAL and breakdown less than 20%?	NA		✓

Batch Chrom/TALS review	1 st	Comments/NCM #	2 nd
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	✓	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt.10x (NCM# _____) <input type="checkbox"/> MB-insuff samp (NCM# _____)	✓
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA - High (NCM# _____) <input type="checkbox"/> IDA - Low - S/N 10:1 (NCM# _____)	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist

Method 1699 by KNOX-ID-0019, Rev. 0

H R P A H

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	✓	<input type="checkbox"/> IDA – High (1) no effect (NCM# _____) Samples _____ Samples _____ _____ _____ <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____ _____ _____	<input type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# _____) Samples _____ Samples _____ _____ _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____ _____ _____	✓
9. All sample and QC IDA, IS and surrogate ion ratios within QC limits?	NA	<input type="checkbox"/> Ion abundance ratio (s) outside limits (NCM# _____) <i>single ion</i>		✓
10. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	✓			✓

Batch TALS Review	1st	Comments/NCM #	2nd
11. Graphics uploaded?	✓		✓
12. Sample special instructions verified?	✓		✓
13. Was the mass resolution checks AND the breakdown check attached to the appropriate CCV?	✓		✓
14. Was the correct ICAL used for quantitation? (Check ICAL event number in batch).	✓		✓
15. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	✓	<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	✓
16. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	NA	<input type="checkbox"/> (NCM# _____)	✓
17. Are all positive within the upper calibration range?	✓	<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM# _____)	✓
18. Was a Post Dilution Spike technique used?	NA	<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	✓
19. Suffixes assigned properly when needed (DL/RE)?	NA		✓
20. Samples not reported set to "Acceptable" or "Rejected"	NA		✓
21. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	✓		✓
22. Verify reagents have not expired.	✓		✓
23. Is the correct IGV from the ICAL linked?	✓		✓
24. Checklist scanned & attached properly?	✓		✓

1 st level: <i>[Signature]</i>	Date: 6/24/24	2 nd level: <i>MAC by L</i>	Date: 6/25/24
Comments:			

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D3PAH Start Date: 06/24/2024 22:40

Analysis Batch Number: 88048 End Date: 06/25/2024 08:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-88048/1		06/24/2024 22:40	1	d3240624c1c.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/25/2024 00:42	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/25/2024 01:49	1		Rxi-5SilMS 25 0.25 (mm)
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	06/25/2024 02:53	1	140-36689-a-6-d .d	Rxi-5SilMS 25 0.25 (mm)
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	06/25/2024 03:58	1	140-36689-a-7-d .d	Rxi-5SilMS 25 0.25 (mm)
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	06/25/2024 05:02	1	140-36689-a-8-d .d	Rxi-5SilMS 25 0.25 (mm)
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED	06/25/2024 06:06	1	140-36689-a-14- d.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/25/2024 07:11	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/25/2024 08:15	1		Rxi-5SilMS 25 0.25 (mm)

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist

Method ~~1699~~ by ~~KNOX-ID-0019~~, Rev. 0

HRPAH

Instrument:	D3PAH	Start mass Res:	22:29
Analysis Date:	6-24-24	End Mass Res:	0921
Chrom WL #:	33236	CS3 File name:	
TALS Batch #:	88048	Breakdown Std:	
ICAL Chrom WL #:	33168		
ICAL TALS Batch / Event #:	87843 / 5149		

CCV Chrom/Worklist Review	1 st	Comments/NCM #	2 nd
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >8,000 ^{10,000} in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes $\geq 10:1$?			✓
11. Are the ion abundance ratios for all labeled and unlabeled analytes within the limits?	NA	single ion	✓
12. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	✓		✓
13. Are RRTs of all unlabeled analytes within their respective RRT limits?	✓		✓
14. Are % D within $\pm 50\%$ for all labeled IDA's?	✓		✓
15. Are % D within $\pm 25\%$ for all natives?	✓		✓
16. Was the absolute retention time for Methoxychlor greater than 39 minutes in the CS6 standard?	XLA		✓
17. Was the Endrin and 4,4'-DDT breakdown check analyzed after the CCAL and breakdown less than 20%?	NA		✓

Batch Chrom/TALS review	1 st	Comments/NCM #	2 nd
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	NO	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt. 10x (NCM# _____) <input type="checkbox"/> MB-insuff samp (NCM# 56705)	✓
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA - High (NCM# _____) <input type="checkbox"/> IDA - Low - S/N 10:1 (NCM# _____)	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist

Method 1699 by KNOX-ID-0019, Rev. 0

HRPAH

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	✓	<input type="checkbox"/> IDA – High (1) no effect (NCM# _____) Samples _____ Samples _____ _____ _____ <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____ _____ _____	<input type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# _____) Samples _____ Samples _____ _____ _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____ _____ _____	✓
9. All sample and QC IDA, IS and surrogate ion ratios within QC limits?	NA	<input type="checkbox"/> Ion abundance ratio (s) outside limits (NCM# _____) single ion		NA
10. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	✓			✓

Batch TALS Review	1st	Comments/NCM #	2nd
11. Graphics uploaded?	✓		✓
12. Sample special instructions verified?	✓		✓
13. Was the mass resolution checks AND the breakdown check attached to the appropriate CCV?	✓		✓
14. Was the correct ICAL used for quantitation? (Check ICAL event number in batch).	✓		✓
15. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	✓	<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM# 140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	✓
16. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	NA	<input type="checkbox"/> (NCM# _____)	NA
17. Are all positive within the upper calibration range?	✓	<input type="checkbox"/> ICAL-Range Exceed; No Sat. (NCM# _____)	✓
18. Was a Post Dilution Spike technique used?	NA	<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	NA
19. Suffixes assigned properly when needed (DL/RE)?	NA		NA
20. Samples not reported set to "Acceptable" or "Rejected"	NA		NA
21. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	✓		✓
22. Verify reagents have not expired.	✓		✓
23. Is the correct ICV from the ICAL linked?	✓		✓
24. Checklist scanned & attached properly?	✓		✓

1st level: <i>[Signature]</i>	Date: 6/25/24	2nd level: MAC by LK	Date: 6-26-24
Comments: <i>[Signature]</i>			
		Low Surrogate Anthracene-d10 Ncm 56749, SD	

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D3PAH Start Date: 06/25/2024 11:07

Analysis Batch Number: 88079 End Date: 06/25/2024 19:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-88079/1		06/25/2024 11:07	1	d3240625c1a.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/25/2024 12:43	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/25/2024 13:48	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/25/2024 15:41	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/25/2024 16:45	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/25/2024 17:50	1		Rxi-5SilMS 25 0.25 (mm)
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	06/25/2024 18:54	1	140-36689-a-5-d a.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		06/25/2024 19:59	5		Rxi-5SilMS 25 0.25 (mm)

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist

Method 1699 by KNOX-ID-0019, Rev. 0

H2PA4

Instrument:	D3PA4	Start mass Res:	10:26
Analysis Date:	6/25/24	End Mass Res:	21:26
Chrom WL #:	33250	CS3 File name:	d3240625.pla
TALS Batch #:	88079	Breakdown Std:	
ICAL Chrom WL #:	33168		
ICAL TALS Batch / Event #:	87843 / 5149		

CCV Chrom/Worklist Review	1 st	Comments/NCM #	2 nd
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >8,000 in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes ≥ 10:1?	✓		✓
11. Are the ion abundance ratios for all labeled and unlabeled analytes within the limits?	NA	single im	✓
12. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	✓		✓
13. Are RRTs of all unlabeled analytes within their respective RRT limits?	✓		✓
14. Are % D within ± 50% for all labeled IDA's?	✓		✓
15. Are % D within ± 25% for all natives?	✓		✓
16. Was the absolute retention time for Methoxychlor greater than 39 minutes in the CS6 standard?	NA		✓
17. Was the Endrin and 4,4'-DDT breakdown check analyzed after the CCAL and breakdown less than 20%?	NA		✓

Batch Chrom/TALS review	1 st	Comments/NCM #	2 nd
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	✓N	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input checked="" type="checkbox"/> MB-Rpt. 10x (NCM# _____) <input checked="" type="checkbox"/> MB-insuff samp (NCM# Jdbs 140-34741, 36811)	✓
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA - High (NCM# _____) <input type="checkbox"/> IDA - Low - S/N 10:1 (NCM# _____)	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist

Method 1699 by KNOX-ID-0019, Rev. 0

H2PAH

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	✓	<input type="checkbox"/> IDA – High (1) no effect (NCM# _____) Samples Samples _____ _____ _____ <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples Samples _____ _____ _____	<input type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# _____) Samples Samples _____ _____ _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples Samples _____ _____ _____	✓
9. All sample and QC IDA, IS and surrogate ion ratios within QC limits?	NA	Ion abundance ratio (s) outside limits (NCM# _____)	single ion	✓
10. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	✓			✓

Batch TALS Review	1st	Comments/NCM #	2nd
11. Graphics uploaded?	✓		✓
12. Sample special instructions verified?	✓		✓
13. Was the mass resolution checks AND the breakdown check attached to the appropriate CCV?	✓		✓
14. Was the correct ICAL used for quantitation? (Check ICAL event number in batch).	✓		✓
15. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	✓	<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	✓
16. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	NA	<input type="checkbox"/> (NCM# _____)	✓
17. Are all positive within the upper calibration range?	✓	<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM# _____)	✓
18. Was a Post Dilution Spike technique used?	NA	<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	✓
19. Suffixes assigned properly when needed (DL/RE)?	✓		✓
20. Samples not reported set to "Acceptable" or "Rejected"	✓		✓
21. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	✓		✓
22. Verify reagents have not expired.	✓		✓
23. Is the correct ICV from the ICAL linked?	✓		✓
24. Checklist scanned & attached properly?			✓
1st level: mmp	Date 6/25/24	2nd level: ✓	Date 6.26.24
Comments:			
Anthrach d10 low NCM# 56744			

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Batch Number: 87205 Batch Start Date: 05/31/24 12:03 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 06/04/24 11:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	BotlFullWt	BotlEmptyWt	BotlVol	VolumeCollect	VolCondUsed	InitialAmount
140-36689-A-1	M23-NO.3 BOILER-RUN 1 COMBINED	Combined Prep, Split, 23	Air	T	1444.5 g	515.1 g	929.4 mL	929.4 mL	929.4 mL	1 Sample
140-36689-A-2	M23-NO.3 BOILER-RUN 2 COMBINED	Combined Prep, Split, 23	Air	T	1538.4 g	514.5 g	1023.9 mL	1023.9 mL	1023.9 mL	1 Sample
140-36689-A-3	M23-NO.3 BOILER-RUN 3 COMBINED	Combined Prep, Split, 23	Air	T	1469.3 g	521.2 g	948.1 mL	948.1 mL	948.1 mL	1 Sample
140-36689-A-4	M23-NO.3 BOILER-RUN 4 COMBINED	Combined Prep, Split, 23	Air	T	1408.0 g	523.1 g	884.9 mL	884.9 mL	884.9 mL	1 Sample
140-36689-A-5	M23-NO.3 BOILER-RUN 5 COMBINED	Combined Prep, Split, 23	Air	T	1434.6 g	521.3 g	913.3 mL	913.3 mL	913.3 mL	1 Sample
140-36689-A-6	M23-NO.3 BOILER-RUN 6 COMBINED	Combined Prep, Split, 23	Air	T	1442.5 g	521.2 g	921.3 mL	921.3 mL	921.3 mL	1 Sample
140-36689-A-7	M23-NO.3 BOILER-RUN 7 COMBINED	Combined Prep, Split, 23	Air	T	1860.5 g	797.4 g	1063.1 mL	1063.1 mL	1063.1 mL	1 Sample
140-36689-A-8	M23-NO.3 BOILER-RUN FB COMBINED	Combined Prep, Split, 23	Air	T	819.7 g	520.3 g	299.4 mL	299.4 mL	299.4 mL	1 Sample
140-36689-A-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED	Combined Prep, Split, 23	Air	T						1 Sample
LCS 140-87205/15		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample
LCSD 140-87205/16		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample
MB 140-87205/17		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	HRPAH_IDA_WK 00002	HRPAH_NAT_WK 00001	HRPAH_PEFR_WK 00001	HRPAH_PSAS_WK 00001	
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The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Batch Number: 87205 Batch Start Date: 05/31/24 12:03 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 06/04/24 11:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	HRPAH_IDA_WK 00002	HRPAH_NAT_WK 00001	HRPAH_PEFR_WK 00001	HRPAH_PSAS_WK 00001	
140-36689-A-1	M23-NO.3 BOILER-RUN 1 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36689-A-2	M23-NO.3 BOILER-RUN 2 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36689-A-3	M23-NO.3 BOILER-RUN 3 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36689-A-4	M23-NO.3 BOILER-RUN 4 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36689-A-5	M23-NO.3 BOILER-RUN 5 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36689-A-6	M23-NO.3 BOILER-RUN 6 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36689-A-7	M23-NO.3 BOILER-RUN 7 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36689-A-8	M23-NO.3 BOILER-RUN FB COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36689-A-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL				
LCS 140-87205/15		Combined Prep, Split, 23			30 mL	3 mL	3 mL			
LCSD 140-87205/16		Combined Prep, Split, 23			30 mL	3 mL	3 mL			
MB 140-87205/17		Combined Prep, Split, 23			30 mL	3 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Batch Number: 87205 Batch Start Date: 05/31/24 12:03 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 06/04/24 11:00

Batch Notes	
MeCL2 ID	241697
Sulfuric Acid ID	682487
Hexane ID	24C1862008
Analyst ID - TA Reagent Drop	ss
Analyst ID - IDA Reagent Drop	ss
Analyst ID - TA Reagent Drop Witness	dm
Analyst ID - IDA Reagent Drop Witness	dm
Analyst ID - Extraction	ss
Extraction 1 Start Time	15:50
First Extraction Start Date	06/03/2024
Extraction 1 End Time	08:15
First Extraction End Date	06/04/2024 08:15
Analyst ID - Concentration	ss
Concentration Date	06/04/2024

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Batch Number: 87336 Batch Start Date: 06/05/24 09:39 Batch Analyst: Armstrong, Catherine A

Batch Method: Split Batch End Date: 06/10/24 16:27

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	HRPAH_REC_WK 00001			
140-36689-A-1-A	M23-NO.3 BOILER-RUN 1 COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36689-A-2-A	M23-NO.3 BOILER-RUN 2 COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36689-A-3-A	M23-NO.3 BOILER-RUN 3 COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36689-A-4-A	M23-NO.3 BOILER-RUN 4 COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36689-A-5-A	M23-NO.3 BOILER-RUN 5 COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36689-A-6-A	M23-NO.3 BOILER-RUN 6 COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36689-A-7-A	M23-NO.3 BOILER-RUN 7 COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36689-A-8-A	M23-NO.3 BOILER-RUN FB COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36689-A-14-A	M23 MEDIA CHECK A-2171 FILTER, A-2170 XAD COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
LCS 140-87205/15-A		Split, 23			10 mL	500 uL	500 uL			
LCS 140-87205/16-A		Split, 23			10 mL	500 uL	500 uL			
MB 140-87205/17-A		Split, 23			10 mL	500 uL	500 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Batch Number: 87336 Batch Start Date: 06/05/24 09:39 Batch Analyst: Armstrong, Catherine A

Batch Method: Split Batch End Date: 06/10/24 16:27

Batch Notes	
Analyst ID - Concentration	caa
Silica Gel ID	691350
Na2SO4 ID	662413
Hexane ID	24C1862008
40% DCM:Hexane ID	679430
Analyst ID - IS Reagent Drop	caa
Analyst ID - IS Reagent Drop Witness	caa
Batch Comment	silica gel columns caa 6/6/24.

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Batch Number: 87843 Batch Start Date: 06/19/24 16:34 Batch Analyst: Nordquist, Jon M

Batch Method: 23 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	61HRPAHCS1 00002	61HRPAHCS2 00002	61HRPAHCS3 00003	61HRPAHCS4 00002	61HRPAHCS4a 00002	61HRPAHCS5 00002
IC 140-87843/1		23			20 uL					
IC 140-87843/2		23				20 uL				
IC 140-87843/3		23					20 uL			
IC 140-87843/4		23						20 uL		
IC 140-87843/5		23							20 uL	
IC 140-87843/6		23								20 uL
IC 140-87843/7		23								
IC 140-87843/8		23								
IC 140-87843/9		23								
ICV 140-87843/10		23								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	61HRPAHCS5a 00002	61HRPAHCS6 00002	61HRPAHCS7 00002	61HRPAHICVW 00003		
IC 140-87843/1		23								
IC 140-87843/2		23								
IC 140-87843/3		23								
IC 140-87843/4		23								
IC 140-87843/5		23								
IC 140-87843/6		23								
IC 140-87843/7		23			20 uL					
IC 140-87843/8		23				20 uL				
IC 140-87843/9		23					20 uL			
ICV 140-87843/10		23						20 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 23 Revised (PCBs)

Chlorinated Biphenyl Congeners
(Stationary Source) by HRGC/HRMS

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB1L #	PCB3L #	PCB4L #	PCB19L #	PCB15L #	PCB54L #	PCB28L #	PCB104L #
	LCS 140-87206/15-B	68	67	71	69	71	73	72	78
	LCSD 140-87206/16-B	74	71	76	70	75	74	73	79

PCB1L = PCB-1L
PCB3L = PCB-3L
PCB4L = PCB-4L
PCB19L = PCB-19L
PCB15L = PCB-15L
PCB54L = PCB-54L
PCB28L = PCB-28L
PCB104L = PCB-104L

QC LIMITS

15-145
15-145
15-145
15-145
15-145
15-145
15-145
15-145
40-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB37L #	PCB155L #	PCB81L #	PCB77L #	PCB111L #	PCB123L #	PCB118L #	PCB114L #
	LCS 140-87206/15-B	74	82	77	78	79	81	82	81
	LCSD 140-87206/16-B	78	82	78	82	79	82	84	84

PCB37L = PCB-37L
PCB155L = PCB-155L
PCB81L = PCB-81L
PCB77L = PCB-77L
PCB111L = PCB-111L
PCB123L = PCB-123L
PCB118L = PCB-118L
PCB114L = PCB-114L

QC LIMITS
15-145
40-145
40-145
40-145
40-145
40-145
40-145
40-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB188L #	PCB105L #	PCB178L #	PCB126L #	PCB202L #	PCB167L #	PCB156L #	PCB157L #
	LCS 140-87206/15-B	80	84	83	86	84	83	85	85 C15 6
	LCSD 140-87206/16-B	84	86	84	88	87	86	88	88 C15 6

	QC LIMITS
PCB188L = PCB-188L	40-145
PCB105L = PCB-105L	40-145
PCB178L = PCB-178L	40-145
PCB126L = PCB-126L	40-145
PCB202L = PCB-202L	40-145
PCB167L = PCB-167L	40-145
PCB156L = PCB-156L	40-145
PCB157L = PCB-157L	40-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB170L #	PCB169L #	PCB208L #	PCB189L #	PCB205L #	PCB206L #	PCB209L #
	LCS 140-87206/15-B	86	85	94	83	88	97	103
	LCSD 140-87206/16-B	92	90	96	87	91	98	106

	QC LIMITS
PCB170L = PCB-170L	40-145
PCB169L = PCB-169L	40-145
PCB208L = PCB-208L	40-145
PCB189L = PCB-189L	40-145
PCB205L = PCB-205L	40-145
PCB206L = PCB-206L	40-145
PCB209L = PCB-209L	40-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB1L #	PCB3L #	PCB4L #	PCB19L #	PCB15L #	PCB54L #	PCB28L #	PCB104L #
M23 MEDIA CHECK A-2171 FILTER, A-2170 XAD COMBINED	140-36689-14	66	66	70	65	71	71	68	70
	MB 140-87206/17-B	72	71	73	68	73	73	74	79

QC LIMITS

PCB1L = PCB-1L	20-145
PCB3L = PCB-3L	20-145
PCB4L = PCB-4L	20-145
PCB19L = PCB-19L	20-145
PCB15L = PCB-15L	20-145
PCB54L = PCB-54L	20-145
PCB28L = PCB-28L	20-130
PCB104L = PCB-104L	20-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB37L #	PCB155L #	PCB81L #	PCB77L #	PCB111L #	PCB123L #	PCB118L #	PCB114L #
M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED	140-36689-14	74	80	79	81	70	79	80	79
	MB 140-87206/17-B	76	85	80	83	82	83	84	83

	<u>QC LIMITS</u>
PCB37L = PCB-37L	20-145
PCB155L = PCB-155L	20-145
PCB81L = PCB-81L	20-145
PCB77L = PCB-77L	20-145
PCB111L = PCB-111L	20-130
PCB123L = PCB-123L	20-145
PCB118L = PCB-118L	20-145
PCB114L = PCB-114L	20-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB188L #	PCB105L #	PCB178L #	PCB126L #	PCB202L #	PCB167L #	PCB156L #	PCB157L #
M23 MEDIA CHECK A-2171 FILTER, A-2170 XAD COMBINED	140-36689-14	78	83	73	86	84	84	85	85 C15 6
	MB 140-87206/17-B	82	86	82	88	86	86	88	88 C15 6

QC LIMITS

PCB188L = PCB-188L	20-145
PCB105L = PCB-105L	20-145
PCB178L = PCB-178L	20-130
PCB126L = PCB-126L	20-145
PCB202L = PCB-202L	20-145
PCB167L = PCB-167L	20-145
PCB156L = PCB-156L	20-145
PCB157L = PCB-157L	20-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB170L #	PCB169L #	PCB208L #	PCB189L #	PCB205L #	PCB206L #	PCB209L #
M23 MEDIA CHECK A-2171 FILTER, A-2170 XAD COMBINED	140-36689-14	88	87	93	90	87	94	104
	MB 140-87206/17-B	90	92	95	86	90	100	107

	<u>QC LIMITS</u>
PCB170L = PCB-170L	20-145
PCB169L = PCB-169L	20-145
PCB208L = PCB-208L	20-145
PCB189L = PCB-189L	20-145
PCB205L = PCB-205L	20-145
PCB206L = PCB-206L	20-145
PCB209L = PCB-209L	20-145

Column to be used to flag recovery values

FORM II 23

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB1L #	PCB3L #	PCB4L #	PCB8L #	PCB19L #	PCB15L #	PCB54L #	PCB28L #
M23-NO.3 BOILER-RUN 1 COMBINED	140-36689-1	55	62	64	98 S	69	42 S	69 S	77
M23-NO.3 BOILER-RUN 2 COMBINED	140-36689-2	57 S	65	68	90 S	73 S	37 S	75	82
M23-NO.3 BOILER-RUN 3 COMBINED	140-36689-3	55 S	61	65	90 S	69 S	36 S	68	79
M23-NO.3 BOILER-RUN 4 COMBINED	140-36689-4	48	56	59	95 S	63 S	34 S	69	78
M23-NO.3 BOILER-RUN 5 COMBINED	140-36689-5	52	57	63	83 S	65 S	33 S	66 S	77
M23-NO.3 BOILER-RUN 6 COMBINED	140-36689-6	55	60	65	89 S	67	38 S	70 S	77
M23-NO.3 BOILER-RUN 7 COMBINED	140-36689-7	56	61	64	89 S	68	38 S	71 S	73
M23-NO.3 BOILER-RUN FB COMBINED	140-36689-8	49	53	57	87 S	57 S	32 S	66 S	69

QC LIMITS

PCB1L = PCB-1L	20-145
PCB3L = PCB-3L	20-145
PCB4L = PCB-4L	20-145
PCB8L = PCB-8L	70-130
PCB19L = PCB-19L	20-145
PCB15L = PCB-15L	20-145
PCB54L = PCB-54L	20-145
PCB28L = PCB-28L	20-130

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB104L #	PCB37L #	PCB95L #	PCB155L #	PCB79L #	PCB81L #	PCB77L #	PCB111L #
M23-NO.3 BOILER-RUN 1 COMBINED	140-36689-1	88	80	106	90	103	81	83	80
M23-NO.3 BOILER-RUN 2 COMBINED	140-36689-2	92	80	102	93	100	83	84	87
M23-NO.3 BOILER-RUN 3 COMBINED	140-36689-3	92	75	107	94	104	76	77	86
M23-NO.3 BOILER-RUN 4 COMBINED	140-36689-4	89	74	108	90	106	76	77	85
M23-NO.3 BOILER-RUN 5 COMBINED	140-36689-5	90	73	106	90	104	75	74	84
M23-NO.3 BOILER-RUN 6 COMBINED	140-36689-6	93	81	106	96	102	85	86	84
M23-NO.3 BOILER-RUN 7 COMBINED	140-36689-7	95	81	100	98	99	84	84	83
M23-NO.3 BOILER-RUN FB COMBINED	140-36689-8	86	73	104	89	100	74	76	77

QC LIMITS

PCB104L = PCB-104L	20-145
PCB37L = PCB-37L	20-145
PCB95L = PCB-95L	70-130
PCB155L = PCB-155L	20-145
PCB79L = PCB-79L	70-130
PCB81L = PCB-81L	20-145
PCB77L = PCB-77L	20-145
PCB111L = PCB-111L	20-130

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB123L #	PCB118L #	PCB114L #	PCB188L #	PCB105L #	PCB153L #	PCB178L #	PCB126L #
M23-NO.3 BOILER-RUN 1 COMBINED	140-36689-1	92	90	92	91	92	93	82	92
M23-NO.3 BOILER-RUN 2 COMBINED	140-36689-2	94	92	91	94	91	93	88	92
M23-NO.3 BOILER-RUN 3 COMBINED	140-36689-3	90	91	90	93	90	97	89	88
M23-NO.3 BOILER-RUN 4 COMBINED	140-36689-4	91	91	90	91	90	101	88	89
M23-NO.3 BOILER-RUN 5 COMBINED	140-36689-5	89	89	90	91	90	100	89	89
M23-NO.3 BOILER-RUN 6 COMBINED	140-36689-6	94	93	93	93	94	96	84	92
M23-NO.3 BOILER-RUN 7 COMBINED	140-36689-7	96	95	96	94	96	94	83	97
M23-NO.3 BOILER-RUN FB COMBINED	140-36689-8	88	86	87	87	88	92	78	87

QC LIMITS

PCB123L = PCB-123L	20-145
PCB118L = PCB-118L	20-145
PCB114L = PCB-114L	20-145
PCB188L = PCB-188L	20-145
PCB105L = PCB-105L	20-145
PCB153L = PCB-153L	70-130
PCB178L = PCB-178L	20-130
PCB126L = PCB-126L	20-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB202L #	PCB167L #	PCB156L #	PCB157L #	PCB170L #	PCB169L #	PCB208L #	PCB189L #
M23-NO.3 BOILER-RUN 1 COMBINED	140-36689-1	92	86	89	C 89 C15 6	92	87	98	90
M23-NO.3 BOILER-RUN 2 COMBINED	140-36689-2	91	86	87	C 87 C15 6	93	83	100	89
M23-NO.3 BOILER-RUN 3 COMBINED	140-36689-3	94	85	87	C 87 C15 6	92	83	101	85
M23-NO.3 BOILER-RUN 4 COMBINED	140-36689-4	91	85	86	C 86 C15 6	92	84	97	82
M23-NO.3 BOILER-RUN 5 COMBINED	140-36689-5	91	83	87	C 87 C15 6	89	85	99	85
M23-NO.3 BOILER-RUN 6 COMBINED	140-36689-6	94	92	92	C 92 C15 6	96	91	102	97
M23-NO.3 BOILER-RUN 7 COMBINED	140-36689-7	94	89	92	C 92 C15 6	96	91	103	97
M23-NO.3 BOILER-RUN FB COMBINED	140-36689-8	88	82	84	C 84 C15 6	89	86	93	87

QC LIMITS

PCB202L = PCB-202L	20-145
PCB167L = PCB-167L	20-145
PCB156L = PCB-156L	20-145
PCB157L = PCB-157L	20-145
PCB170L = PCB-170L	20-145
PCB169L = PCB-169L	20-145
PCB208L = PCB-208L	20-145
PCB189L = PCB-189L	20-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB205L #	PCB206L #	PCB209L #
M23-NO.3 BOILER-RUN 1 COMBINED	140-36689-1	89	96	105
M23-NO.3 BOILER-RUN 2 COMBINED	140-36689-2	90	100	108
M23-NO.3 BOILER-RUN 3 COMBINED	140-36689-3	89	99	110
M23-NO.3 BOILER-RUN 4 COMBINED	140-36689-4	89	99	110
M23-NO.3 BOILER-RUN 5 COMBINED	140-36689-5	89	99	110
M23-NO.3 BOILER-RUN 6 COMBINED	140-36689-6	93	98	108
M23-NO.3 BOILER-RUN 7 COMBINED	140-36689-7	93	99	109
M23-NO.3 BOILER-RUN FB COMBINED	140-36689-8	85	90	98

	<u>QC LIMITS</u>
PCB205L = PCB-205L	20-145
PCB206L = PCB-206L	20-145
PCB209L = PCB-209L	20-145

Column to be used to flag recovery values

FORM II 23

FORM III
HI-RES PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: lcs140-87206-15-b.d
 Lab ID: LCS 140-87206/15-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/Sample)	LCS CONCENTRATION (ng/Sample)	LCS % REC	QC LIMITS REC	#
PCB-77	15.0	14.11	94	60-135	
PCB-81	15.0	14.07	94	60-135	
PCB-105	15.0	14.09	94	60-135	
PCB-114	15.0	15.31	102	60-135	
PCB-118	15.0	13.95	93	60-135	
PCB-123	15.0	14.23	95	60-135	
PCB-126	15.0	17.32	115	60-135	
PCB-156	30.0	28.69	96	60-135	C
PCB-157	30.0	28.69	96	60-135	C156
PCB-167	15.0	15.15	101	60-135	
PCB-169	15.0	16.35	109	60-135	
PCB-189	15.0	15.62	104	60-135	
PCB-206	15.0	13.81	92	60-135	
PCB-209	15.0	13.62	91	60-135	
PCB-1L	30.0	20.51	68	15-145	
PCB-3L	30.0	20.03	67	15-145	
PCB-4L	30.0	21.38	71	15-145	
PCB-15L	30.0	21.21	71	15-145	
PCB-19L	30.0	20.77	69	15-145	
PCB-37L	30.0	22.31	74	15-145	
PCB-54L	30.0	22.02	73	15-145	
PCB-77L	30.0	23.47	78	40-145	
PCB-81L	30.0	23.14	77	40-145	
PCB-104L	30.0	23.33	78	40-145	
PCB-105L	30.0	25.11	84	40-145	
PCB-114L	30.0	24.41	81	40-145	
PCB-118L	30.0	24.54	82	40-145	
PCB-123L	30.0	24.35	81	40-145	
PCB-126L	30.0	25.66	86	40-145	
PCB-155L	30.0	24.49	82	40-145	
PCB-156L	60.0	50.81	85	40-145	C
PCB-157L	60.0	50.81	85	40-145	C156
PCB-167L	30.0	24.95	83	40-145	
PCB-169L	30.0	25.38	85	40-145	
PCB-170L	30.0	25.90	86	40-145	
PCB-188L	30.0	24.06	80	40-145	
PCB-189L	30.0	24.94	83	40-145	
PCB-202L	30.0	25.25	84	40-145	
PCB-205L	30.0	26.39	88	40-145	
PCB-206L	30.0	28.97	97	40-145	
PCB-208L	30.0	28.19	94	40-145	
PCB-209L	30.0	31.05	103	40-145	

Column to be used to flag recovery and RPD values

FORM III
HI-RES PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: lcsd140-87206-16-b.d
 Lab ID: LCSD 140-87206/16-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/Sample)	LCSD CONCENTRATION (ng/Sample)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-77	15.0	14.19	95	1	50	60-135	
PCB-81	15.0	14.21	95	1	50	60-135	
PCB-105	15.0	13.57	90	4	50	60-135	
PCB-114	15.0	14.79	99	3	50	60-135	
PCB-118	15.0	13.65	91	2	50	60-135	
PCB-123	15.0	14.51	97	2	50	60-135	
PCB-126	15.0	17.09	114	1	50	60-135	
PCB-156	30.0	28.65	96	0	50	60-135	C
PCB-157	30.0	28.65	96	0	50	60-135	C156
PCB-167	15.0	14.77	98	3	50	60-135	
PCB-169	15.0	16.20	108	1	50	60-135	
PCB-189	15.0	15.26	102	2	50	60-135	
PCB-206	15.0	14.10	94	2	50	60-135	
PCB-209	15.0	13.81	92	1	50	60-135	
PCB-1L	30.0	22.27	74			15-145	
PCB-3L	30.0	21.36	71			15-145	
PCB-4L	30.0	22.79	76			15-145	
PCB-15L	30.0	22.41	75			15-145	
PCB-19L	30.0	21.13	70			15-145	
PCB-37L	30.0	23.29	78			15-145	
PCB-54L	30.0	22.14	74			15-145	
PCB-77L	30.0	24.47	82			40-145	
PCB-81L	30.0	23.39	78			40-145	
PCB-104L	30.0	23.58	79			40-145	
PCB-105L	30.0	25.95	86			40-145	
PCB-114L	30.0	25.13	84			40-145	
PCB-118L	30.0	25.34	84			40-145	
PCB-123L	30.0	24.69	82			40-145	
PCB-126L	30.0	26.36	88			40-145	
PCB-155L	30.0	24.73	82			40-145	
PCB-156L	60.0	52.70	88			40-145	C
PCB-157L	60.0	52.70	88			40-145	C156
PCB-167L	30.0	25.81	86			40-145	
PCB-169L	30.0	26.92	90			40-145	
PCB-170L	30.0	27.54	92			40-145	
PCB-188L	30.0	25.26	84			40-145	
PCB-189L	30.0	25.97	87			40-145	
PCB-202L	30.0	26.08	87			40-145	
PCB-205L	30.0	27.24	91			40-145	
PCB-206L	30.0	29.40	98			40-145	
PCB-208L	30.0	28.69	96			40-145	
PCB-209L	30.0	31.82	106			40-145	

Column to be used to flag recovery and RPD values

FORM IV
HI-RES PCBS METHOD BLANK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Lab File ID: mb140-87206-17-b.d Lab Sample ID: MB 140-87206/17-B
 Matrix: Air Date Extracted: 05/31/2024 12:09
 Instrument ID: D2D Date Analyzed: 06/11/2024 15:03
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-87206/15-B	lcs140-87206-15-b.d	06/11/2024 11:16
	LCSD 140-87206/16-B	lcsd140-87206-16-b.d	06/11/2024 12:17
M23-NO.3 BOILER-RUN 1 COMBINED	140-36689-1	140-36689-a-1-c.d	06/11/2024 16:04
M23-NO.3 BOILER-RUN 2 COMBINED	140-36689-2	140-36689-a-2-c.d	06/11/2024 17:06
M23-NO.3 BOILER-RUN 3 COMBINED	140-36689-3	140-36689-a-3-c.d	06/11/2024 18:07
M23-NO.3 BOILER-RUN 4 COMBINED	140-36689-4	140-36689-a-4-c.d	06/11/2024 19:08
M23-NO.3 BOILER-RUN 5 COMBINED	140-36689-5	140-36689-a-5-c.d	06/11/2024 20:09
M23-NO.3 BOILER-RUN 6 COMBINED	140-36689-6	140-36689-a-6-c.d	06/12/2024 05:36
M23-NO.3 BOILER-RUN 7 COMBINED	140-36689-7	140-36689-a-7-c.d	06/12/2024 06:37
M23-NO.3 BOILER-RUN FB COMBINED	140-36689-8	140-36689-a-8-c.d	06/12/2024 07:39
M23 MEDIA CHECK A-2171 FILTER, A-2170 XAD COMBINED	140-36689-14	140-36689-a-14-c.d	06/12/2024 14:09

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 1</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-1-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/07/2024 14:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/11/2024 16:04</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.445	J S	0.600	0.132	0.0214
37680-65-2	PCB-18	ND	C	0.600	0.285	0.00432
7012-37-5	PCB-28	0.535	J C20 B	0.600	0.252	0.0128
41464-39-5	PCB-44	4.00	C	0.900	0.390	0.0232
35693-99-3	PCB-52	0.364		0.300	0.132	0.0245
32598-10-0	PCB-66	0.156	J q	0.300	0.120	0.0179
32598-13-3	PCB-77	0.120	J	0.300	0.126	0.0204
70362-50-4	PCB-81	ND		0.300	0.0960	0.0213
37680-73-2	PCB-101	0.149	J C90	0.900	0.390	0.00560
32598-14-4	PCB-105	0.0473	J	0.300	0.102	0.0103
74472-37-0	PCB-114	0.0224	J	0.300	0.165	0.0106
31508-00-6	PCB-118	0.0526	J q B	0.300	0.183	0.00963
65510-44-3	PCB-123	ND		0.300	0.171	0.0109
57465-28-8	PCB-126	ND		0.300	0.123	0.0114
38380-07-3	PCB-128	ND	C	0.600	0.204	0.00423
35065-28-2	PCB-138	0.0783	J q C129	1.20	0.510	0.00439
35065-27-1	PCB-153	0.0883	J C B	0.600	0.249	0.00380
38380-08-4	PCB-156	ND	C	0.600	0.255	0.00457
69782-90-7	PCB-157	ND	C156	0.600	0.255	0.00457
52663-72-6	PCB-167	ND		0.300	0.180	0.00310
32774-16-6	PCB-169	ND		0.300	0.123	0.00308
35065-30-6	PCB-170	0.00865	J q	0.300	0.132	0.000256
35065-29-3	PCB-180	0.0200	J C	0.600	0.204	0.000194
52663-68-0	PCB-187	0.0142	J q	0.300	0.126	0.000206
39635-31-9	PCB-189	ND		0.300	0.147	0.00284
52663-78-2	PCB-195	ND		0.300	0.159	0.00362
40186-72-9	PCB-206	ND		0.300	0.171	0.0388
2051-24-3	PCB-209	0.0199	J q B	0.300	0.138	0.00514

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 1</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-1-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/07/2024 14:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/11/2024 16:04</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	55		20-145
208263-77-8	PCB-3L	62		20-145
234432-86-1	PCB-4L	64		20-145
208263-67-6	PCB-15L	42	S	20-145
234432-87-2	PCB-19L	69		20-145
208263-79-0	PCB-37L	80		20-145
234432-88-3	PCB-54L	69	S	20-145
105600-23-5	PCB-77L	83		20-145
208461-24-9	PCB-81L	81		20-145
234432-89-4	PCB-104L	88		20-145
208263-62-1	PCB-105L	92		20-145
208263-63-2	PCB-114L	92		20-145
104130-40-7	PCB-118L	90		20-145
208263-64-3	PCB-123L	92		20-145
208263-65-4	PCB-126L	92		20-145
234432-90-7	PCB-155L	90		20-145
208263-68-7	PCB-156L	89	C	20-145
235416-30-5	PCB-157L	89	C156	20-145
208263-69-8	PCB-167L	86		20-145
208263-70-1	PCB-169L	87		20-145
160901-80-4	PCB-170L	92		20-145
234432-91-8	PCB-188L	91		20-145
208263-73-4	PCB-189L	90		20-145
105600-26-8	PCB-202L	92		20-145
234446-64-1	PCB-205L	89		20-145
208263-75-6	PCB-206L	96		20-145
234432-92-9	PCB-208L	98		20-145
105600-27-9	PCB-209L	105		20-145

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Client Sample ID: M23-NO.3 BOILER-RUN 1 Lab Sample ID: 140-36689-1
COMBINED
Matrix: Air Lab File ID: 140-36689-a-1-c.d
Analysis Method: 23 Date Collected: 05/07/2024 14:30
Extract. Method: Combined Prep Date Extracted: 05/31/2024 12:09
Sample wt/vol: 1(Sample) Date Analyzed: 06/11/2024 16:04
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 87502 Units: ng/Sample
Preparation Batch No.: 87206 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	77		20-130
235416-29-2	PCB-111L	80		20-130
232919-67-4	PCB-178L	82		20-130
STL01600	PCB-8L	98	S	70-130
STL01603	PCB-79L	103		70-130
STL01604	PCB-95L	106		70-130
STL01606	PCB-153L	93		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Lims ID: 140-36689-A-1-C
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 16:04:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-009
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 09:14:55 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 09:14:55

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					4.475	4.475	0.0397	0.0397		
D PCB-1L	11:33	5396402	3.09	1.6108	54.9	54.9	0.3963	0.3963	54.91	
D PCB-3L	13:42	5974323	3.12	1.5891	61.6	61.6	0.4017	0.4017	61.62	
PCB-1	11:34	87884	3.05	1.2191	1.336	1.336	0.0383	0.0383		M
PCB-2	13:32	103910	3.31	1.1805	1.548	1.548	0.0406	0.0406		
PCB-3	13:43	116042	3.30	1.2206	1.591	1.591	0.0402	0.0402		
S Total Dichlorobiphenyls					33.9	33.6	0.0825	0.0825		RQ
D PCB-4L	13:57	2515504	1.61	0.6475	63.7	63.7	0.1895	0.1895	63.67	
* PCB-9L	15:57	6101249	1.60		100.0	100.0				
\$ PCB-8L	16:50	1038427	1.61	1.2066	32.8	32.8	0.2204	0.2204	98.39	a
D PCB-15L	20:04	2732606	1.66	1.0789	41.5	41.5	0.1137	0.1137	41.51	a
PCB-4	13:58	13967	1.56	1.2818	0.5339	0.4332	0.0782	0.0782		RQ
PCB-10	14:10						0.0861	0.0861		
PCB-9	15:57	7715	1.56	1.4224	0.2270	0.2067	0.0796	0.0796		RQ
PCB-7	16:07	22620	1.56	1.4134	0.7470	0.6099	0.0801	0.0801		RQ
PCB-6	16:25	26603	1.56	1.5421	0.7590	0.6574	0.0734	0.0734		RQa
PCB-5	16:50						0.0845	0.0845		U
PCB-8	16:50	61804	1.41	1.5889	1.482	1.482	0.0713	0.0713		a
PCB-14	18:24						0.0807	0.0807		
PCB-11	19:27	1004641	1.62	1.2951	29.6	29.6	0.0874	0.0874		a
PCB-12	19:32						0.0848	0.0848		
PCB-13 (C12)	19:32						0.0848	0.0848		
PCB-15	20:04	22246	1.58	1.2903	0.6309	0.6309	0.1009	0.1009		a
S Total Trichlorobiphenyls					8.348	8.028	0.0345	0.0345		RQ
D PCB-19L	17:08	1575215	1.05	0.6285	68.7	68.7	0.6837	0.6837	68.69	
* PCB-32L	20:30	3648495	1.09		100.0	100.0				
* PCB-31L	22:40	11292907	1.06		100.0	100.0				
\$ PCB-28L	22:57	9082373	1.08	1.0494	76.6	76.6	0.1670	0.1670	76.64	
D PCB-37L	26:53	7860976	1.07	0.8749	79.6	79.6	0.2003	0.2003	79.56	
PCB-19	17:08	1974	1.04	1.2809	0.1408	0.0978	0.0199	0.0199		RQ
PCB-18	18:55						0.0144	0.0144		
PCB-30 (C18)	18:55						0.0144	0.0144		
PCB-17	19:21						0.0205	0.0205		
PCB-27	19:34	15427	1.08	1.8327	0.5344	0.5344	0.0139	0.0139		M

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:42						0.0152	0.0152		
PCB-16	19:52	580	1.04	1.1286	0.0775	0.0326	0.0225	0.0225		RQ
PCB-32	20:30	14881	1.04	1.8324	0.5636	0.5155	0.0139	0.0139		RQa
PCB-34	21:35						0.0442	0.0442		
PCB-23	21:43						0.0461	0.0461		
PCB-26	22:08	21361	1.04	1.1255	0.3295	0.2414	0.0443	0.0443		RQ
PCB-29 (C26)	22:08	21361	1.04	1.1255	0.3295	0.2414	0.0443	0.0443		RQ
PCB-25	22:23	29494	0.97	1.2728	0.2948	0.2948	0.0392	0.0392		a
PCB-31	22:40	141120	0.99	1.1532	1.557	1.557	0.0432	0.0432		a
PCB-20	22:57	164397	0.98	1.1718	1.785	1.785	0.0425	0.0425		
PCB-28 (C20)	22:57	164397	0.98	1.1718	1.785	1.785	0.0425	0.0425		
PCB-21	23:12	101756	0.90	1.0746	1.205	1.205	0.0464	0.0464		a
PCB-33 (C21)	23:12	101756	0.90	1.0746	1.205	1.205	0.0464	0.0464		a
PCB-22	23:34	54785	1.04	1.1932	0.6798	0.5841	0.0418	0.0418		RQ
PCB-36	25:06	8258	1.13	1.1071	0.0949	0.0949	0.0450	0.0450		M
PCB-39	25:25						0.0430	0.0430		
PCB-38	26:00						0.0460	0.0460		
PCB-35	26:30	61940	0.98	1.1297	0.6975	0.6975	0.0441	0.0441		
PCB-37	26:54	34979	1.20	1.1435	0.3891	0.3891	0.0436	0.0436		
S Total Tetrachlorobiphenyls					25.3	25.0	0.0684	0.0684		RQ
D PCB-54L	20:21	1396563	0.81	0.5562	68.8	68.8	0.0795	0.0795	68.82	a
* PCB-52L	24:44	5494346	0.80		100.0	100.0				
\$ PCB-79L	32:36	2002637	0.81	1.0018	34.4	34.4	0.2951	0.2951	103	
D PCB-81L	33:35	5571889	0.81	1.2470	81.3	81.3	0.2241	0.2241	81.33	
D PCB-77L	34:09	6039654	0.82	1.3212	83.2	83.2	0.2115	0.2115	83.20	
PCB-54	20:10						0.0105	0.0105		
PCB-50	22:24	7270	0.77	0.8578	0.2228	0.1460	0.0877	0.0877		RQM
PCB-53 (C50)	22:24	7270	0.77	0.8578	0.2228	0.1460	0.0877	0.0877		RQM
PCB-45	23:07	166075	0.85	0.8264	3.461	3.461	0.0910	0.0910		
PCB-51 (C45)	23:07	166075	0.85	0.8264	3.461	3.461	0.0910	0.0910		
PCB-46	23:18						0.1059	0.1059		
PCB-52	24:46	64818	0.79	0.9194	1.214	1.214	0.0818	0.0818		a
PCB-43	24:51						0.0728	0.0728		
PCB-73 (C43)	24:51						0.0728	0.0728		
PCB-49	25:15	39872	0.67	1.0685	0.6427	0.6427	0.0704	0.0704		a
PCB-69 (C49)	25:15	39872	0.67	1.0685	0.6427	0.6427	0.0704	0.0704		a
PCB-48	25:32	10227	0.77	0.8399	0.2315	0.2097	0.0896	0.0896		RQa
PCB-44	25:47	753802	0.82	0.9731	13.3	13.3	0.0773	0.0773		
PCB-47 (C44)	25:47	753802	0.82	0.9731	13.3	13.3	0.0773	0.0773		
PCB-65 (C44)	25:47	753802	0.82	0.9731	13.3	13.3	0.0773	0.0773		
PCB-59	26:01						0.0635	0.0635		
PCB-62 (C59)	26:01						0.0635	0.0635		
PCB-75 (C59)	26:01						0.0635	0.0635		
PCB-42	26:16	12173	0.77	0.8097	0.3147	0.2590	0.0929	0.0929		RQM
PCB-40	26:44	25204	0.76	0.8863	0.4898	0.4898	0.0849	0.0849		M
PCB-41 (C40)	26:44	25204	0.76	0.8863	0.4898	0.4898	0.0849	0.0849		M
PCB-71 (C40)	26:44	25204	0.76	0.8863	0.4898	0.4898	0.0849	0.0849		M
PCB-64	26:58	28311	0.65	1.1776	0.4141	0.4141	0.0639	0.0639		M
PCB-72	27:46						0.0687	0.0687		
PCB-68	28:04	173317	0.88	1.2533	2.382	2.382	0.0600	0.0600		
PCB-57	28:28						0.0695	0.0695		
PCB-58	28:42						0.0568	0.0568		
PCB-67	28:52						0.0529	0.0529		
PCB-63	29:08						0.0669	0.0669		
PCB-61	29:30	80701	0.80	1.2612	1.102	1.102	0.0596	0.0596		
PCB-70 (C61)	29:30	80701	0.80	1.2612	1.102	1.102	0.0596	0.0596		
PCB-74 (C61)	29:30	80701	0.80	1.2612	1.102	1.102	0.0596	0.0596		
PCB-76 (C61)	29:30	80701	0.80	1.2612	1.102	1.102	0.0596	0.0596		
PCB-66	29:48	38024	0.77	1.2583	0.5682	0.5205	0.0598	0.0598		RQ
PCB-55	29:58						0.0568	0.0568		
PCB-56	30:29	14472	0.77	1.2334	0.2412	0.2021	0.0610	0.0610		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:42	16715	0.67	1.1230	0.2564	0.2564	0.0670	0.0670		
PCB-80	31:05						0.0568	0.0568		
PCB-79	32:36						0.0523	0.0523		
PCB-78	33:09						0.0647	0.0647		
PCB-81	33:36						0.0710	0.0710		
PCB-77	34:11	26144	0.75	1.0836	0.3995	0.3995	0.0681	0.0681		
S Total Pentachlorobiphenyls					2.811	2.604	0.0243	0.0243		RQ
D PCB-104L	25:40	3978011	1.62	1.2161	87.8	87.8	0.0488	0.0488	87.78	
\$ PCB-95L	28:37	1011963	1.63	0.7218	35.2	35.2	0.0715	0.0715	106	
* PCB-101L	31:32	3726593	1.61		100.0	100.0				
\$ PCB-111L	34:12	4107468	1.59	1.3699	80.5	80.5	0.0433	0.0433	80.46	
D PCB-123L	36:09	5645772	1.58	0.9731	91.5	91.5	1.077	1.077	91.53	
D PCB-118L	36:28	5785530	1.60	1.0102	90.4	90.4	1.037	1.037	90.36	
D PCB-114L	37:00	5783863	1.57	0.9949	91.7	91.7	1.053	1.053	91.72	
D PCB-105L	37:39	5526202	1.59	0.9514	91.6	91.6	1.101	1.101	91.64	
* PCB-127L	39:07	6338284	1.60		100.0	100.0				
D PCB-126L	40:43	5480568	1.60	0.9439	91.6	91.6	1.110	1.110	91.61	
PCB-104	25:38						0.0177	0.0177		
PCB-96	26:01						0.0163	0.0163		
PCB-103	27:56						0.0204	0.0204		
PCB-94	28:10						0.0233	0.0233		
PCB-95	28:37	10615	1.55	0.8033	0.3845	0.3322	0.0222	0.0222		RQM
PCB-93	28:49						0.0211	0.0211		
PCB-100 (C93)	28:49						0.0211	0.0211		
PCB-98	29:00	668	1.55	0.8262	0.0526	0.0203	0.0216	0.0216		RQ
PCB-102 (C98)	29:00	668	1.55	0.8262	0.0526	0.0203	0.0216	0.0216		RQ
PCB-88	29:29	2943	1.55	0.8013	0.1086	0.0923	0.0222	0.0222		RQ
PCB-91 (C88)	29:29	2943	1.55	0.8013	0.1086	0.0923	0.0222	0.0222		RQ
PCB-84	29:43	4727	1.69	0.7299	0.1628	0.1628	0.0244	0.0244		
PCB-89	30:10						0.0228	0.0228		
PCB-121	30:34						0.0137	0.0137		
PCB-92	30:59	1881	1.55	0.8546	0.0813	0.0553	0.0208	0.0208		RQM
PCB-90	31:32	18912	1.67	0.9550	0.4978	0.4978	0.0187	0.0187		
PCB-101 (C90)	31:32	18912	1.67	0.9550	0.4978	0.4978	0.0187	0.0187		
PCB-113 (C90)	31:32	18912	1.67	0.9550	0.4978	0.4978	0.0187	0.0187		
PCB-83	32:08	11607	1.70	0.8385	0.3480	0.3480	0.0212	0.0212		M
PCB-99 (C83)	32:08	11607	1.70	0.8385	0.3480	0.3480	0.0212	0.0212		M
PCB-112	32:13						0.0126	0.0126		
PCB-86	32:43	10810	1.51	1.0473	0.2595	0.2595	0.0170	0.0170		M
PCB-87 (C86)	32:43	10810	1.51	1.0473	0.2595	0.2595	0.0170	0.0170		M
PCB-97 (C86)	32:43	10810	1.51	1.0473	0.2595	0.2595	0.0170	0.0170		M
PCB-109 (C86)	32:43	10810	1.51	1.0473	0.2595	0.2595	0.0170	0.0170		M
PCB-119 (C86)	32:43	10810	1.51	1.0473	0.2595	0.2595	0.0170	0.0170		M
PCB-125 (C86)	32:43	10810	1.51	1.0473	0.2595	0.2595	0.0170	0.0170		M
PCB-85	33:21	2820	1.55	1.0408	0.0923	0.0681	0.0171	0.0171		RQ
PCB-116 (C85)	33:21	2820	1.55	1.0408	0.0923	0.0681	0.0171	0.0171		RQ
PCB-117 (C85)	33:21	2820	1.55	1.0408	0.0923	0.0681	0.0171	0.0171		RQ
PCB-110	33:31	17049	1.55	1.1919	0.3937	0.3596	0.0149	0.0149		RQ
PCB-115 (C110)	33:31	17049	1.55	1.1919	0.3937	0.3596	0.0149	0.0149		RQ
PCB-82	33:49						0.0215	0.0215		
PCB-111	34:13						0.0147	0.0147		
PCB-120	34:43						0.0121	0.0121		U
PCB-108	35:49						0.0348	0.0348		
PCB-124 (C108)	35:49						0.0348	0.0348		
PCB-107	36:03						0.0328	0.0328		
PCB-123	36:10						0.0363	0.0363		
PCB-106	36:17						0.0366	0.0366		
PCB-118	36:29	12228	1.55	1.2055	0.1970	0.1753	0.0321	0.0321		RQ
PCB-122	36:50						0.0415	0.0415		
PCB-114	37:01	4680	1.47	1.0842	0.0746	0.0746	0.0354	0.0354		M

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:41	10360	1.52	1.1879	0.1578	0.1578	0.0345	0.0345		
PCB-127	39:09						0.0349	0.0349		
PCB-126	40:45						0.0381	0.0381		
S Total Hexachlorobiphenyls					1.431	1.261	0.0123	0.0123		RQ
D PCB-155L	31:18	3650380	1.28	1.0851	90.3	90.3	0.0519	0.0519	90.27	
\$ PCB-153L	38:21	1383832	1.27	0.9169	31.1	31.1	0.4511	0.4511	93.38	
* PCB-138L	39:35	4493110	1.26		100.0	100.0				
D PCB-167L	42:35	4861708	1.26	1.2572	86.1	86.1	0.2892	0.2892	86.06	
D PCB-156L	43:44	9689003	1.28	1.2106	178.1	178.1	0.3003	0.3003	89.06	
D PCB-157L (C156L)	43:44	9689003	1.28	1.2106	178.1	178.1	0.3003	0.3003	89.06	
D PCB-169L	46:58	4843122	1.26	1.2439	86.7	86.7	0.2923	0.2923	86.66	
PCB-155	31:19	1436	1.24	0.9444	0.0458	0.0417	0.005688	0.005688		RQ
PCB-152	31:30						0.005429	0.005429		
PCB-150	31:41	337	1.24	1.0132	0.0130	0.009111	0.005302	0.005302		RQ
PCB-136	32:04	922	1.24	1.0116	0.0381	0.0250	0.005310	0.005310		RQM
PCB-145	32:20						0.005547	0.005547		
PCB-148	33:50						0.007066	0.007066		
PCB-135	34:25	3219	1.24	0.7256	0.1369	0.1215	0.007404	0.007404		RQM
PCB-151 (C135)	34:25	3219	1.24	0.7256	0.1369	0.1215	0.007404	0.007404		RQM
PCB-154	34:41						0.006608	0.006608		
PCB-144	34:59						0.006841	0.006841		
PCB-147	35:22	12297	1.07	0.8950	0.2834	0.2834	0.0155	0.0155		
PCB-149 (C147)	35:22	12297	1.07	0.8950	0.2834	0.2834	0.0155	0.0155		
PCB-134	35:39						0.0174	0.0174		
PCB-143 (C134)	35:39						0.0174	0.0174		
PCB-139	35:57						0.0158	0.0158		
PCB-140 (C139)	35:57						0.0158	0.0158		
PCB-131	36:09						0.0185	0.0185		
PCB-142	36:18						0.0185	0.0185		
PCB-132	36:37	4779	1.24	0.7489	0.1468	0.1316	0.0185	0.0185		RQM
PCB-133	37:07						0.0171	0.0171		
PCB-165	37:31						0.0135	0.0135		
PCB-146	37:46						0.0144	0.0144		
PCB-161	37:54						0.0123	0.0123		
PCB-153	38:22	15607	1.16	1.0938	0.2943	0.2943	0.0127	0.0127		
PCB-168 (C153)	38:22	15607	1.16	1.0938	0.2943	0.2943	0.0127	0.0127		
PCB-141	38:34	2347	1.24	0.8755	0.0665	0.0553	0.0158	0.0158		RQ
PCB-130	38:57	819	1.24	0.7051	0.0437	0.0240	0.0197	0.0197		RQ
PCB-137	39:12						0.0179	0.0179		
PCB-164	39:19						0.0134	0.0134		
PCB-129	39:37	11972	1.24	0.9464	0.2929	0.2609	0.0146	0.0146		RQM
PCB-138 (C129)	39:37	11972	1.24	0.9464	0.2929	0.2609	0.0146	0.0146		RQM
PCB-160 (C129)	39:37	11972	1.24	0.9464	0.2929	0.2609	0.0146	0.0146		RQM
PCB-163 (C129)	39:37	11972	1.24	0.9464	0.2929	0.2609	0.0146	0.0146		RQM
PCB-158	39:59	203	1.24	1.3110	0.0379	0.003194	0.0106	0.0106		RQ
PCB-128	40:52	544	1.24	0.9829	0.0313	0.0114	0.0141	0.0141		RQ
PCB-166 (C128)	40:52	544	1.24	0.9829	0.0313	0.0114	0.0141	0.0141		RQ
PCB-159	41:51						0.0100	0.0100		
PCB-162	42:08						0.0110	0.0110		
PCB-167	42:37						0.0103	0.0103		
PCB-156	43:46						0.0152	0.0152		
PCB-157 (C156)	43:46						0.0152	0.0152		
PCB-169	46:59						0.0103	0.0103		
S Total Heptachlorobiphenyls					0.3528	0.2846	0.001114	0.001114		RQ
D PCB-188L	37:00	4188359	1.07	1.3133	91.2	91.2	0.0351	0.0351	91.19	
\$ PCB-178L	40:03	2950143	1.09	1.0313	81.8	81.8	0.0447	0.0447	81.79	
* PCB-180L	45:07	3497309	1.05		100.0	100.0				
D PCB-170L	46:23	2694728	1.07	0.8362	92.1	92.1	0.0551	0.0551	92.14	
D PCB-189L	49:28	6017914	1.04	1.4414	89.9	89.9	0.8675	0.8675	89.93	
PCB-188	37:01						0.000531	0.000531		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:23	749	1.05	1.4276	0.0233	0.0152	0.000529	0.000529		RQ
PCB-184	37:53						0.000553	0.000553		
PCB-176	38:14						0.000613	0.000613		
PCB-186	38:42						0.000513	0.000513		
PCB-178	40:03	165	1.05	0.8946	0.0191	0.005359	0.000845	0.000845		RQ
PCB-175	40:42						0.000793	0.000793		
PCB-187	40:57	1790	1.05	1.1018	0.0566	0.0472	0.000686	0.000686		RQM
PCB-182	41:11						0.000817	0.000817		
PCB-183	41:35	2596	1.19	0.9825	0.0768	0.0768	0.000769	0.000769		
PCB-185 (C183)	41:35	2596	1.19	0.9825	0.0768	0.0768	0.000769	0.000769		
PCB-174	41:48	1479	1.05	0.9642	0.0608	0.0446	0.000784	0.000784		RQ
PCB-177	42:16						0.000773	0.000773		
PCB-181	42:38						0.000795	0.000795		
PCB-171	42:52						0.000809	0.000809		
PCB-173 (C171)	42:52						0.000809	0.000809		
PCB-172	44:31						0.000887	0.000887		
PCB-192	44:46						0.000562	0.000562		
PCB-180	45:06	2677	1.14	1.1676	0.0666	0.0666	0.000647	0.000647		M
PCB-193 (C180)	45:06	2677	1.14	1.1676	0.0666	0.0666	0.000647	0.000647		M
PCB-191	45:30						0.000586	0.000586		
PCB-170	46:24	922	1.05	1.1865	0.0496	0.0288	0.000854	0.000854		RQ
PCB-190	46:56						0.000567	0.000567		
PCB-189	49:30						0.009473	0.009473		
S Total Octachlorobiphenyls					0.0347	0.0220	0.004367	0.004367		RQ
D PCB-202L	42:21	3143341	0.89	0.9818	91.5	91.5	0.0349	0.0349	91.54	
* PCB-194L	51:35	4642431	0.91		100.0	100.0				
D PCB-205L	52:03	4881429	0.89	1.1786	89.2	89.2	0.0882	0.0882	89.22	
PCB-202	42:23						0.001922	0.001922		
PCB-201	43:18						0.002041	0.002041		
PCB-204	43:58						0.001899	0.001899		
PCB-197	44:12						0.001737	0.001737		
PCB-200	44:19						0.001977	0.001977		
PCB-198	47:06	64	0.89	0.8698	0.0125	0.002341	0.002289	0.002289		RQ
PCB-199 (C198)	47:06	64	0.89	0.8698	0.0125	0.002341	0.002289	0.002289		RQ
PCB-196	47:45						0.002550	0.002550		
PCB-203	47:55	574	0.89	0.9292	0.0222	0.0197	0.002142	0.002142		RQ
PCB-195	49:17						0.0121	0.0121		
PCB-194	51:37						0.0102	0.0102		
PCB-205	52:05						0.009167	0.009167		
S Total Nonachlorobiphenyls							0.1293	0.1293		
D PCB-208L	49:01	4375480	0.80	0.9576	98.4	98.4	0.3695	0.3695	98.42	
D PCB-206L	53:48	3096419	0.80	0.6947	96.0	96.0	0.5094	0.5094	96.01	
PCB-208	49:02						0.1059	0.1059		
PCB-207	49:58						0.1031	0.1031		
PCB-206	53:50						0.1293	0.1293		
D PCB-209L	55:25	3243970	0.71	0.6669	104.8	104.8	0.0645	0.0645	105	
DCB Decachlorobiphenyl	55:24	2371	0.69	1.1004	0.0760	0.0664	0.0171	0.0171		RQM
S Polychlorinated biphenyls, Total					72.3	0.0664	0.0415	0.0415		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Lims ID: 140-36689-A-1-C
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 16:04:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-009
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 09:14:55 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT61

Date: 12-Jun-2024 09:14:55

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:33	11:35	-1	0.724	4076968	1564766	1070	2675	1462		
202.0766	11:33	11:35	-1	0.724	1319434	511111	2826	7065	181	3.09(2.66-3.60)	
PCB-3L											
200.0795	13:42	13:44	-1	0.859	4524530	1501925	1070	2675	1404		
202.0766	13:42	13:44	-1	0.859	1449793	474226	2826	7065	168	3.12(2.66-3.60)	
PCB-1											
188.0393	11:34	11:33	-1	1.001	66210	25238	191	477	132		M
190.0363	11:33	11:33	-2	1.000	21674	7646	197	492	39	3.05(2.66-3.60)	M
PCB-2											
188.0393	13:32	13:32	-1	0.988	79790	26665	191	477	140		
190.0363	13:32	13:32	-1	0.988	24120	6759	197	492	34	3.31(2.66-3.60)	
PCB-3											
188.0393	13:43	13:42	-1	1.001	89056	25758	191	477	135		
190.0363	13:43	13:42	-1	1.001	26986	9278	197	492	47	3.30(2.66-3.60)	
PCB-4L											
234.0406	13:57	14:00	-2	0.875	1550813	487453	558	1395	874		
236.0376	13:57	14:00	-2	0.875	964691	308072	191	477	1613	1.61(1.33-1.79)	
PCB-9L											
234.0406	15:57	15:56	1		3753142	938417	558	1395	1682		
236.0376	15:57	15:56	1		2348107	587272	191	477	3075	1.60(1.33-1.79)	
PCB-8L											
234.0406	16:50	16:50	3	1.207	640592	125364	558	1395	225		a
236.0376	16:50	16:50	3	1.207	397835	77123	191	477	404	1.61(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											a
234.0406	20:04	20:06	14	1.258	1706081	381942	558	1395	684		a
236.0376	20:04	20:06	14	1.258	1026525	230230	191	477	1205	1.66(1.33-1.79)	
PCB-4											RQ
222.0003	13:58	13:58	-1	1.002	11760	4635	132	330	35		
	Empc Correction				8511	2667	132	330	20		
223.9974	13:57	13:58	-2	1.001	5456	1710	187	467	9	2.16(1.33-1.79)	
PCB-10											
222.0003	14:07						132	330			
223.9974	14:07						187	467			
PCB-9											RQ
222.0003	15:57	15:54	0	1.144	5460	1413	132	330	11		
	Empc Correction				4701	1184	132	330	9		
223.9974	15:59	15:54	2	1.146	3014	759	187	467	4	1.81(1.33-1.79)	
PCB-7											RQ
222.0003	16:07	16:07	0	1.156	18870	3689	132	330	28		
	Empc Correction				13784	3650	132	330	28		
223.9974	16:07	16:07	0	1.156	8836	2340	187	467	13	2.14(1.33-1.79)	
PCB-6											RQa
222.0003	16:25	16:24	3	1.177	20322	3902	132	330	30		a
	Empc Correction				16211	3765	132	330	29		
223.9974	16:24	16:24	3	1.176	10392	2414	187	467	13	1.96(1.33-1.79)	
PCB-5											U
222.0003	16:52						132	330			
223.9974	16:52						187	467			
PCB-8											a
222.0003	16:50	16:54	3	1.207	36194	6865	132	330	52		a
223.9974	16:51	16:54	4	1.209	25610	4479	187	467	24	1.41(1.33-1.79)	
PCB-14											
222.0003	18:39						132	330			
223.9974	18:39						187	467			
PCB-11											a
222.0003	19:27	19:16	13	0.970	621057	126174	132	330	956		a
223.9974	19:27	19:16	13	0.970	383584	79533	187	467	425	1.62(1.33-1.79)	
PCB-12											
222.0003	19:30						132	330			
223.9974	19:30						187	467			
PCB-13 (C12)											
222.0003	19:30						132	330			
223.9974	19:30						187	467			
PCB-15											a
222.0003	20:04	20:07	13	1.000	13618	2975	132	330	23		a
223.9974	20:04	20:07	14	1.001	8628	2000	187	467	11	1.58(1.33-1.79)	
PCB-19L											
268.0016	17:08	17:15	4	0.836	806092	170515	977	2442	175		
269.9986	17:08	17:15	4	0.836	769123	163696	470	1175	348	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:30	20:18	11		1902486	439975	977	2442	450		
269.9986	20:30	20:18	11		1746009	401710	470	1175	855	1.09(0.88-1.20)	
PCB-31L											
268.0016	22:40	22:34	6		5800864	1324603	1286	3215	1030		
269.9986	22:40	22:34	6		5492043	1260705	526	1315	2397	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:57	22:56	6	1.012	4705917	1040042	1286	3215	809		
269.9986	22:57	22:56	6	1.012	4376456	964118	526	1315	1833	1.08(0.88-1.20)	
PCB-37L											
268.0016	26:53	26:56	3	1.186	4063818	872722	1286	3215	679		
269.9986	26:53	26:56	3	1.186	3797158	832378	526	1315	1582	1.07(0.88-1.20)	
PCB-19											
255.9613	17:08	17:13	3	1.000	1873	425	16	40	27		RQ
	Empc Correction				1006	174	16	40	11		
257.9584	17:08	17:13	3	1.000	968	168	18	45	9	1.93(0.88-1.20)	
PCB-18											
255.9613	18:59						16	40			
257.9584	18:59						18	45			
PCB-30 (C18)											
255.9613	18:59						16	40			
257.9584	18:59						18	45			
PCB-17											
255.9613	19:26						16	40			
257.9584	19:26						18	45			
PCB-27											
255.9613	19:34	19:35	0	1.142	8008	1816	16	40	114		M
257.9584	19:35	19:35	1	1.143	7419	1783	18	45	99	1.08(0.88-1.20)	M
PCB-24											
255.9613	19:47						16	40			
257.9584	19:47						18	45			
PCB-16											
255.9613	19:52	19:55	3	1.159	296	175	16	40	11		RQ
257.9584	19:51	19:55	2	1.158	1081	404	18	45	22	0.27(0.88-1.20)	
	Empc Correction				284	168	18	45	9		
PCB-32											
255.9613	20:30	20:31	11	1.196	8974	2280	16	40	143		RQa
	Empc Correction				7586	1905	16	40	119		a
257.9584	20:30	20:31	11	1.196	7295	1832	18	45	102	1.23(0.88-1.20)	
PCB-34											
255.9613	21:40						224	560			
257.9584	21:40						116	290			
PCB-23											
255.9613	21:49						224	560			
257.9584	21:49						116	290			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-26											RQ
255.9613	22:08	22:09	6	1.292	10890	2969	224	560	13		
257.9584	22:09	22:09	7	1.292	18264	3833	116	290	33	0.60(0.88-1.20)	
Empc Correction					10471	2854	116	290	25		
PCB-29 (C26)											RQ
255.9613	22:08	22:09	6	1.292	10890	2969	224	560	13		
257.9584	22:09	22:09	7	1.292	18264	3833	116	290	33	0.60(0.88-1.20)	
Empc Correction					10471	2854	116	290	25		
PCB-25											a
255.9613	22:23	22:22	7	0.832	14536	2830	224	560	13		a
257.9584	22:22	22:22	6	0.832	14958	3181	116	290	27	0.97(0.88-1.20)	
PCB-31											a
255.9613	22:40	22:42	6	0.843	70367	16318	224	560	73		a
257.9584	22:40	22:42	6	0.843	70753	14369	116	290	124	0.99(0.88-1.20)	
PCB-20											
255.9613	22:57	22:57	4	0.854	81405	18154	224	560	81		
257.9584	22:57	22:57	4	0.854	82992	18940	116	290	163	0.98(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:57	22:57	4	0.854	81405	18154	224	560	81		
257.9584	22:57	22:57	4	0.854	82992	18940	116	290	163	0.98(0.88-1.20)	
PCB-21											a
255.9613	23:12	23:12	9	0.863	48166	9964	224	560	44		a
257.9584	23:12	23:12	9	0.863	53590	11558	116	290	100	0.90(0.88-1.20)	
PCB-33 (C21)											a
255.9613	23:12	23:12	9	0.863	48166	9964	224	560	44		a
257.9584	23:12	23:12	9	0.863	53590	11558	116	290	100	0.90(0.88-1.20)	
PCB-22											RQ
255.9613	23:34	23:35	4	0.877	27930	6322	224	560	28		
257.9584	23:34	23:35	4	0.877	35837	6106	116	290	53	0.78(0.88-1.20)	
Empc Correction					26855	6078	116	290	52		
PCB-36											M
255.9613	25:06	25:05	3	0.934	4378	864	224	560	4		M
257.9584	25:07	25:05	3	0.934	3880	1528	116	290	13	1.13(0.88-1.20)	
PCB-39											
255.9613	25:28						224	560			
257.9584	25:28						116	290			
PCB-38											
255.9613	26:02						224	560			
257.9584	26:02						116	290			
PCB-35											
255.9613	26:30	26:29	3	0.986	30722	7162	224	560	32		
257.9584	26:30	26:29	3	0.986	31218	6320	116	290	54	0.98(0.88-1.20)	
PCB-37											
255.9613	26:54	26:51	2	1.000	19080	3379	224	560	15		
257.9584	26:54	26:51	2	1.000	15899	3655	116	290	32	1.20(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54L											a
301.9626	20:21	20:23	13	0.823	624604	130851	95	237	1377		a
303.9597	20:21	20:23	13	0.823	771959	168387	54	135	3118	0.81(0.65-0.89)	
PCB-52L											
301.9626	24:44	24:41	3		2450146	548053	621	1552	883		
303.9597	24:44	24:41	3		3044200	678308	750	1875	904	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:36	32:33	1	0.971	899136	186768	621	1552	301		
303.9597	32:36	32:33	1	0.971	1103501	222008	750	1875	296	0.81(0.65-0.89)	
PCB-81L											
301.9626	33:35	33:38	0	1.358	2495172	506585	621	1552	816		
303.9597	33:35	33:38	0	1.358	3076717	630614	750	1875	841	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:09	34:11	0	1.381	2714361	530769	621	1552	855		
303.9597	34:09	34:11	0	1.381	3325293	650749	750	1875	868	0.82(0.65-0.89)	
PCB-54											
289.9224	20:10						6	15			
291.9194	20:10						10	25			
PCB-50											RQM
289.9224	22:24	22:24	5	1.101	3163	695	126	315	6		M
291.9194	22:25	22:24	6	1.102	7932	1518	223	557	7	0.40(0.65-0.89)	M
	Empc Correction				4107	902	223	557	4		
PCB-53 (C50)											RQM
289.9224	22:24	22:24	5	1.101	3163	695	126	315	6		M
291.9194	22:25	22:24	6	1.102	7932	1518	223	557	7	0.40(0.65-0.89)	M
	Empc Correction				4107	902	223	557	4		
PCB-45											
289.9224	23:07	23:08	4	1.136	76151	15853	126	315	126		
291.9194	23:08	23:08	5	1.137	89924	19416	223	557	87	0.85(0.65-0.89)	
PCB-51 (C45)											
289.9224	23:07	23:08	4	1.136	76151	15853	126	315	126		
291.9194	23:08	23:08	5	1.137	89924	19416	223	557	87	0.85(0.65-0.89)	
PCB-46											
289.9224	23:33						126	315			
291.9194	23:33						223	557			
PCB-52											a
289.9224	24:46	24:42	4	1.218	28667	8124	126	315	64		a
291.9194	24:46	24:42	4	1.218	36151	6780	223	557	30	0.79(0.65-0.89)	
PCB-43											
289.9224	25:07						126	315			
291.9194	25:07						223	557			
PCB-73 (C43)											
289.9224	25:07						126	315			
291.9194	25:07						223	557			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-49											
289.9224	25:15	25:14	7	1.241	15947	3288	126	315	26		a
291.9194	25:15	25:14	7	1.241	23925	5155	223	557	23	0.67(0.65-0.89)	a
PCB-69 (C49)											
289.9224	25:15	25:14	7	1.241	15947	3288	126	315	26		a
291.9194	25:15	25:14	7	1.241	23925	5155	223	557	23	0.67(0.65-0.89)	a
PCB-48											
289.9224	25:32	25:32	3	1.255	5511	1334	126	315	11		RQa
	Empc Correction				4449	1629	126	315	13		a
291.9194	25:32	25:32	3	1.255	5778	2116	223	557	9	0.95(0.65-0.89)	
PCB-44											
289.9224	25:47	25:43	4	1.267	339931	69754	126	315	554		
291.9194	25:47	25:43	4	1.267	413871	91436	223	557	410	0.82(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:47	25:43	4	1.267	339931	69754	126	315	554		
291.9194	25:47	25:43	4	1.267	413871	91436	223	557	410	0.82(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:47	25:43	4	1.267	339931	69754	126	315	554		
291.9194	25:47	25:43	4	1.267	413871	91436	223	557	410	0.82(0.65-0.89)	
PCB-59											
289.9224	26:18						126	315			
291.9194	26:18						223	557			
PCB-62 (C59)											
289.9224	26:18						126	315			
291.9194	26:18						223	557			
PCB-75 (C59)											
289.9224	26:18						126	315			
291.9194	26:18						223	557			
PCB-42											
289.9224	26:16	26:15	3	1.291	5296	1293	126	315	10		RQM
291.9194	26:15	26:15	1	1.290	9495	1911	223	557	9	0.56(0.65-0.89)	M
	Empc Correction				6877	1679	223	557	8		
PCB-40											
289.9224	26:44	26:42	0	1.314	10893	1600	126	315	13		M
291.9194	26:47	26:42	3	1.316	14311	2910	223	557	13	0.76(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:44	26:42	0	1.314	10893	1600	126	315	13		M
291.9194	26:47	26:42	3	1.316	14311	2910	223	557	13	0.76(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:44	26:42	0	1.314	10893	1600	126	315	13		M
291.9194	26:47	26:42	3	1.316	14311	2910	223	557	13	0.76(0.65-0.89)	M
PCB-64											
289.9224	26:58	26:57	3	1.326	11190	2602	126	315	21		M
291.9194	26:57	26:57	1	1.324	17121	3138	223	557	14	0.65(0.65-0.89)	M
PCB-72											
289.9224	27:46						126	315			
291.9194	27:46						223	557			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-68											
289.9224	28:04	28:03	1	0.836	81106	16546	126	315	131		
291.9194	28:04	28:03	1	0.836	92211	19973	223	557	90	0.88(0.65-0.89)	
PCB-57											
289.9224	28:28						126	315			
291.9194	28:28						223	557			
PCB-58											
289.9224	28:43						126	315			
291.9194	28:43						223	557			
PCB-67											
289.9224	28:53						126	315			
291.9194	28:53						223	557			
PCB-63											
289.9224	29:09						126	315			
291.9194	29:09						223	557			
PCB-61											
289.9224	29:30	29:27	1	0.878	35781	6039	126	315	48		
291.9194	29:30	29:27	1	0.878	44920	6484	223	557	29	0.80(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:30	29:27	1	0.878	35781	6039	126	315	48		
291.9194	29:30	29:27	1	0.878	44920	6484	223	557	29	0.80(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:30	29:27	1	0.878	35781	6039	126	315	48		
291.9194	29:30	29:27	1	0.878	44920	6484	223	557	29	0.80(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:30	29:27	1	0.878	35781	6039	126	315	48		
291.9194	29:30	29:27	1	0.878	44920	6484	223	557	29	0.80(0.65-0.89)	
PCB-66											
289.9224	29:48	29:49	0	0.887	20028	4014	126	315	32		RQ
	Empc Correction				16541	3156	126	315	25		
291.9194	29:49	29:49	1	0.888	21483	4099	223	557	18	0.93(0.65-0.89)	
PCB-55											
289.9224	29:58						126	315			
291.9194	29:58						223	557			
PCB-56											
289.9224	30:29	30:27	0	0.907	6296	1835	126	315	15		RQ
291.9194	30:29	30:27	1	0.908	10977	2011	223	557	9	0.57(0.65-0.89)	
	Empc Correction				8176	2383	223	557	11		
PCB-60											
289.9224	30:42	30:39	1	0.914	6730	1681	126	315	13		
291.9194	30:42	30:39	1	0.914	9985	2541	223	557	11	0.67(0.65-0.89)	
PCB-80											
289.9224	31:05						126	315			
291.9194	31:05						223	557			
PCB-79											
289.9224	32:37						126	315			
291.9194	32:37						223	557			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-78											
289.9224	33:10						126	315			
291.9194	33:10						223	557			
PCB-81											
289.9224	33:36						126	315			
291.9194	33:36						223	557			
PCB-77											
289.9224	34:11	34:09	1	1.001	11176	2165	126	315	17		
291.9194	34:10	34:09	0	1.000	14968	2676	223	557	12	0.75(0.65-0.89)	
PCB-104L											
337.9207	25:40	25:37	3	0.814	2459406	541952	109	272	4972		
339.9178	25:40	25:37	3	0.814	1518605	339507	73	182	4651	1.62(1.32-1.78)	
PCB-95L											
337.9207	28:37	28:38	1	1.115	626939	138117	109	272	1267		
339.9178	28:37	28:38	1	1.115	385024	83046	73	182	1138	1.63(1.32-1.78)	
PCB-101L											
337.9207	31:32	31:31	0		2297207	471993	109	272	4330		
339.9178	31:32	31:31	0		1429386	295319	73	182	4045	1.61(1.32-1.78)	
PCB-111L											
337.9207	34:12	34:11	0	1.085	2520830	507510	109	272	4656		
339.9178	34:12	34:11	0	1.085	1586638	324709	73	182	4448	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:09	36:08	1	1.147	3460105	690826	3159	7897	219		
339.9178	36:09	36:08	1	1.147	2185667	426528	1941	4852	220	1.58(1.32-1.78)	
PCB-118L											
337.9207	36:28	36:27	0	1.157	3558306	685278	3159	7897	217		
339.9178	36:28	36:27	0	1.157	2227224	439061	1941	4852	226	1.60(1.32-1.78)	
PCB-114L											
337.9207	37:00	36:59	0	1.173	3536284	687861	3159	7897	218		
339.9178	37:00	36:59	0	1.173	2247579	445532	1941	4852	230	1.57(1.32-1.78)	
PCB-105L											
337.9207	37:39	37:37	1	1.194	3393871	648926	3159	7897	205		
339.9178	37:38	37:37	0	1.194	2132331	412989	1941	4852	213	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:07	39:07	0		3904829	746787	3159	7897	236		
339.9178	39:07	39:07	0		2433455	469897	1941	4852	242	1.60(1.32-1.78)	
PCB-126L											
337.9207	40:43	40:43	-1	1.292	3374872	641572	3159	7897	203		
339.9178	40:44	40:43	0	1.292	2105696	398669	1941	4852	205	1.60(1.32-1.78)	
PCB-104											
325.8804	25:41						53	132			
327.8775	25:41						10	25			
PCB-96											
325.8804	26:04						53	132			
327.8775	26:04						10	25			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-103											
325.8804	27:59						53	132			
327.8775	27:59						10	25			
PCB-94											
325.8804	28:13						53	132			
327.8775	28:13						10	25			
PCB-95											
325.8804	28:37	28:39	1	1.115	8125	1885	53	132	36		RQM
	Empc Correction				6452	1438	53	132	27		
327.8775	28:39	28:39	3	1.116	4163	928	10	25	93	1.95(1.32-1.78)	M
PCB-93											
325.8804	28:52						53	132			
327.8775	28:52						10	25			
PCB-100 (C93)											
325.8804	28:52						53	132			
327.8775	28:52						10	25			
PCB-98											
325.8804	29:00	28:57	2	1.130	1468	393	53	132	7		RQ
	Empc Correction				406	128	53	132	2		
327.8775	28:59	28:57	0	1.129	262	83	10	25	8	5.60(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:00	28:57	2	1.130	1468	393	53	132	7		RQ
	Empc Correction				406	128	53	132	2		
327.8775	28:59	28:57	0	1.129	262	83	10	25	8	5.60(1.32-1.78)	
PCB-88											
325.8804	29:29	29:31	0	1.149	1789	480	53	132	9		RQ
327.8775	29:30	29:31	2	1.150	1674	631	10	25	63	1.07(1.32-1.78)	
	Empc Correction				1154	309	10	25	31		
PCB-91 (C88)											
325.8804	29:29	29:31	0	1.149	1789	480	53	132	9		RQ
327.8775	29:30	29:31	2	1.150	1674	631	10	25	63	1.07(1.32-1.78)	
	Empc Correction				1154	309	10	25	31		
PCB-84											
325.8804	29:43	29:44	2	1.158	2972	610	53	132	12		
327.8775	29:45	29:44	3	1.159	1755	345	10	25	35	1.69(1.32-1.78)	
PCB-89											
325.8804	30:13						53	132			
327.8775	30:13						10	25			
PCB-121											
325.8804	30:38						53	132			
327.8775	30:38						10	25			
PCB-92											
325.8804	30:59	30:56	1	0.857	2027	526	53	132	10		RQM
	Empc Correction				1143	299	53	132	6		M
327.8775	30:57	30:56	0	0.856	738	193	10	25	19	2.75(1.32-1.78)	
PCB-90											
325.8804	31:32	31:34	0	1.228	11821	2490	53	132	47		
327.8775	31:33	31:34	2	1.229	7091	1964	10	25	196	1.67(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-101 (C90)											
325.8804	31:32	31:34	0	1.228	11821	2490	53	132	47		
327.8775	31:33	31:34	2	1.229	7091	1964	10	25	196	1.67(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:32	31:34	0	1.228	11821	2490	53	132	47		
327.8775	31:33	31:34	2	1.229	7091	1964	10	25	196	1.67(1.32-1.78)	
PCB-83											
325.8804	32:08	32:09	1	1.252	7315	1772	53	132	33		M
327.8775	32:06	32:09	0	1.251	4292	957	10	25	96	1.70(1.32-1.78)	M
PCB-99 (C83)											
325.8804	32:08	32:09	1	1.252	7315	1772	53	132	33		M
327.8775	32:06	32:09	0	1.251	4292	957	10	25	96	1.70(1.32-1.78)	M
PCB-112											
325.8804	32:17						53	132			
327.8775	32:17						10	25			
PCB-86											
325.8804	32:43	32:38	7	1.275	6502	1083	53	132	20		M
327.8775	32:41	32:38	4	1.273	4308	840	10	25	84	1.51(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:43	32:38	7	1.275	6502	1083	53	132	20		M
327.8775	32:41	32:38	4	1.273	4308	840	10	25	84	1.51(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:43	32:38	7	1.275	6502	1083	53	132	20		M
327.8775	32:41	32:38	4	1.273	4308	840	10	25	84	1.51(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:43	32:38	7	1.275	6502	1083	53	132	20		M
327.8775	32:41	32:38	4	1.273	4308	840	10	25	84	1.51(1.32-1.78)	M
PCB-119 (C86)											
325.8804	32:43	32:38	7	1.275	6502	1083	53	132	20		M
327.8775	32:41	32:38	4	1.273	4308	840	10	25	84	1.51(1.32-1.78)	M
PCB-125 (C86)											
325.8804	32:43	32:38	7	1.275	6502	1083	53	132	20		M
327.8775	32:41	32:38	4	1.273	4308	840	10	25	84	1.51(1.32-1.78)	M
PCB-85											
325.8804	33:21	33:22	1	1.299	2717	610	53	132	12		RQ
	Empc Correction				1714	539	53	132	10		
327.8775	33:22	33:22	3	1.300	1106	348	10	25	35	2.46(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:21	33:22	1	1.299	2717	610	53	132	12		RQ
	Empc Correction				1714	539	53	132	10		
327.8775	33:22	33:22	3	1.300	1106	348	10	25	35	2.46(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:21	33:22	1	1.299	2717	610	53	132	12		RQ
	Empc Correction				1714	539	53	132	10		
327.8775	33:22	33:22	3	1.300	1106	348	10	25	35	2.46(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-110											RQ
325.8804	33:31	33:30	-1	1.306	11980	2166	53	132	41		
	Empc Correction				10363	2016	53	132	38		
327.8775	33:30	33:30	-2	1.305	6686	1301	10	25	130	1.79(1.32-1.78)	
PCB-115 (C110)											RQ
325.8804	33:31	33:30	-1	1.306	11980	2166	53	132	41		
	Empc Correction				10363	2016	53	132	38		
327.8775	33:30	33:30	-2	1.305	6686	1301	10	25	130	1.79(1.32-1.78)	
PCB-82											
325.8804	33:53						53	132			
327.8775	33:53						10	25			
PCB-111											
325.8804	34:17						53	132			
327.8775	34:17						10	25			
PCB-120											U
325.8804	34:44						53	132			
327.8775	34:44						10	25			
PCB-108											
325.8804	35:52						105	262			
327.8775	35:52						69	172			
PCB-124 (C108)											
325.8804	35:52						105	262			
327.8775	35:52						69	172			
PCB-107											
325.8804	36:07						105	262			
327.8775	36:07						69	172			
PCB-123											
325.8804	36:11						105	262			
327.8775	36:11						69	172			
PCB-106											
325.8804	36:18						105	262			
327.8775	36:18						69	172			
PCB-118											RQ
325.8804	36:29	36:27	-1	1.000	7433	1361	105	262	13		
327.8775	36:30	36:27	0	1.001	6307	1379	69	172	20	1.18(1.32-1.78)	
	Empc Correction				4795	878	69	172	13		
PCB-122											
325.8804	36:50						105	262			
327.8775	36:50						69	172			
PCB-114											M
325.8804	37:01	36:58	1	1.001	2785	666	105	262	6		M
327.8775	37:00	36:58	0	1.000	1895	445	69	172	6	1.47(1.32-1.78)	M
PCB-105											
325.8804	37:41	37:38	0	1.001	6245	1164	105	262	11		
327.8775	37:40	37:38	0	1.000	4115	895	69	172	13	1.52(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-127											
325.8804	39:09						105	262			
327.8775	39:09						69	172			
PCB-126											
325.8804	40:44						105	262			
327.8775	40:44						69	172			
PCB-155L											
371.8817	31:18	31:15	1	0.791	2050119	412075	111	277	3712		
373.8788	31:18	31:15	1	0.791	1600261	332533	62	155	5363	1.28(1.05-1.43)	
PCB-153L											
371.8817	38:21	38:18	0	0.901	774968	151478	201	502	754		
373.8788	38:21	38:18	0	0.901	608864	123112	1076	2690	114	1.27(1.05-1.43)	
PCB-138L											
371.8817	39:35	39:35	0		2502949	487706	201	502	2426		
373.8788	39:35	39:35	0		1990161	390337	1076	2690	363	1.26(1.05-1.43)	
PCB-167L											
371.8817	42:35	42:33	0	1.076	2708238	516659	201	502	2570		
373.8788	42:35	42:33	0	1.076	2153470	410495	1076	2690	382	1.26(1.05-1.43)	
PCB-156L											
371.8817	43:44	43:41	0	1.105	5444163	711123	201	502	3538		
373.8788	43:44	43:41	0	1.105	4244840	553549	1076	2690	514	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:44	43:41	0	1.105	5444163	711123	201	502	3538		
373.8788	43:44	43:41	0	1.105	4244840	553549	1076	2690	514	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:58	46:55	0	1.186	2701906	499284	201	502	2484		
373.8788	46:58	46:55	0	1.186	2141216	395847	1076	2690	368	1.26(1.05-1.43)	
PCB-155											
359.8415	31:19	31:17	1	1.001	795	290	6	15	48		RQ
361.8385	31:22	31:17	4	1.002	785	278	10	25	28	1.01(1.05-1.43)	
	Empc Correction				641	233	10	25	23		
PCB-152											
359.8415	31:32						6	15			
361.8385	31:32						10	25			
PCB-150											
359.8415	31:41	31:39	0	1.012	187	96	6	15	16		RQ
361.8385	31:43	31:39	3	1.013	295	113	10	25	11	0.63(1.05-1.43)	
	Empc Correction				150	77	10	25	8		
PCB-136											
359.8415	32:04	32:01	2	1.025	994	238	6	15	40		RQM
	Empc Correction				510	236	6	15	39		M
361.8385	32:02	32:01	0	1.024	412	191	10	25	19	2.41(1.05-1.43)	
PCB-145											
359.8415	32:21						6	15			
361.8385	32:21						10	25			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-148											
359.8415	33:49						6	15			
361.8385	33:49						10	25			
PCB-135											
359.8415	34:25	34:24	0	1.100	1782	419	6	15	70		RQM
361.8385	34:24	34:24	-1	1.099	1844	353	10	25	35	0.97(1.05-1.43)	M
Empc Correction					1437	337	10	25	34		
PCB-151 (C135)											
359.8415	34:25	34:24	0	1.100	1782	419	6	15	70		RQM
361.8385	34:24	34:24	-1	1.099	1844	353	10	25	35	0.97(1.05-1.43)	M
Empc Correction					1437	337	10	25	34		
PCB-154											
359.8415	34:42						6	15			
361.8385	34:42						10	25			
PCB-144											
359.8415	34:58						6	15			
361.8385	34:58						10	25			
PCB-147											
359.8415	35:22	35:18	1	1.130	6362	1652	39	97	42		
361.8385	35:22	35:18	1	1.130	5935	1373	4	10	343	1.07(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:22	35:18	1	1.130	6362	1652	39	97	42		
361.8385	35:22	35:18	1	1.130	5935	1373	4	10	343	1.07(1.05-1.43)	
PCB-134											
359.8415	35:41						39	97			
361.8385	35:41						4	10			
PCB-143 (C134)											
359.8415	35:41						39	97			
361.8385	35:41						4	10			
PCB-139											
359.8415	35:58						39	97			
361.8385	35:58						4	10			
PCB-140 (C139)											
359.8415	35:58						39	97			
361.8385	35:58						4	10			
PCB-131											
359.8415	36:11						39	97			
361.8385	36:11						4	10			
PCB-142											
359.8415	36:19						39	97			
361.8385	36:19						4	10			
PCB-132											
359.8415	36:37	36:39	0	1.170	2646	871	39	97	22		RQM
361.8385	36:36	36:39	-1	1.169	2685	565	4	10	141	0.99(1.05-1.43)	M
Empc Correction					2133	702	4	10	176		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-133											
359.8415	37:08						39	97			
361.8385	37:08						4	10			
PCB-165											
359.8415	37:30						39	97			
361.8385	37:30						4	10			
PCB-146											
359.8415	37:45						39	97			
361.8385	37:45						4	10			
PCB-161											
359.8415	37:53						39	97			
361.8385	37:53						4	10			
PCB-153											
359.8415	38:22	38:19	-2	0.901	8384	1758	39	97	45		
361.8385	38:22	38:19	-1	0.901	7223	1524	4	10	381	1.16(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:22	38:19	-2	0.901	8384	1758	39	97	45		
361.8385	38:22	38:19	-1	0.901	7223	1524	4	10	381	1.16(1.05-1.43)	
PCB-141											
359.8415	38:34	38:31	0	0.906	1773	520	39	97	13		RQ
	Empc Correction				1299	359	39	97	9		
361.8385	38:37	38:31	3	0.907	1048	290	4	10	73	1.69(1.05-1.43)	
PCB-130											
359.8415	38:57	38:56	-1	0.915	1127	418	39	97	11		RQ
	Empc Correction				453	240	39	97	6		
361.8385	39:00	38:56	1	0.916	366	194	4	10	49	3.08(1.05-1.43)	
PCB-137											
359.8415	39:11						39	97			
361.8385	39:11						4	10			
PCB-164											
359.8415	39:18						39	97			
361.8385	39:18						4	10			
PCB-129											
359.8415	39:37	39:36	0	0.931	8096	1438	39	97	37		RQM
	Empc Correction				6627	1944	39	97	50		
361.8385	39:36	39:36	-2	0.930	5345	1568	4	10	392	1.51(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:37	39:36	0	0.931	8096	1438	39	97	37		RQM
	Empc Correction				6627	1944	39	97	50		
361.8385	39:36	39:36	-2	0.930	5345	1568	4	10	392	1.51(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:37	39:36	0	0.931	8096	1438	39	97	37		RQM
	Empc Correction				6627	1944	39	97	50		
361.8385	39:36	39:36	-2	0.930	5345	1568	4	10	392	1.51(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:37	39:36	0	0.931	8096	1438	39	97	37		RQM
	Empc Correction				6627	1944	39	97	50		
361.8385	39:36	39:36	-2	0.930	5345	1568	4	10	392	1.51(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-158											RQ
359.8415	39:59	39:57	-1	0.939	2317	428	39	97	11		
	Empc Correction				112	43	39	97	1		
361.8385	40:00	39:57	0	0.939	91	35	4	10	9	25.46(1.05-1.43)	
PCB-128											RQ
359.8415	40:52	40:49	0	0.960	1248	405	39	97	10		
	Empc Correction				301	90	39	97	2		
361.8385	40:56	40:49	4	0.961	243	73	4	10	18	5.14(1.05-1.43)	
PCB-166 (C128)											RQ
359.8415	40:52	40:49	0	0.960	1248	405	39	97	10		
	Empc Correction				301	90	39	97	2		
361.8385	40:56	40:49	4	0.961	243	73	4	10	18	5.14(1.05-1.43)	
PCB-159											
359.8415	41:51						39	97			
361.8385	41:51						4	10			
PCB-162											
359.8415	42:08						39	97			
361.8385	42:08						4	10			
PCB-167											
359.8415	42:36						39	97			
361.8385	42:36						4	10			
PCB-156											
359.8415	43:47						39	97			
361.8385	43:47						4	10			
PCB-157 (C156)											
359.8415	43:47						39	97			
361.8385	43:47						4	10			
PCB-169											
359.8415	46:58						39	97			
361.8385	46:58						4	10			
PCB-188L											
405.8428	37:00	36:58	0	0.820	2161939	426284	77	192	5536		
407.8398	37:00	36:58	0	0.820	2026420	403243	45	112	8961	1.07(0.89-1.21)	
PCB-178L											
405.8428	40:03	40:01	0	0.888	1539499	299755	77	192	3893		
407.8398	40:03	40:01	0	0.888	1410644	272991	45	112	6066	1.09(0.89-1.21)	
PCB-180L											
405.8428	45:07	45:08	0		1789868	335795	77	192	4361		
407.8398	45:07	45:08	0		1707441	325833	45	112	7241	1.05(0.89-1.21)	
PCB-170L											
405.8428	46:23	46:21	0	1.028	1395419	252557	77	192	3280		
407.8398	46:22	46:21	-1	1.028	1299309	241151	45	112	5359	1.07(0.89-1.21)	
PCB-189L											
405.8428	49:28	49:27	-1	1.096	3067592	576042	1258	3145	458		
407.8398	49:28	49:27	-1	1.096	2950322	541705	3046	7615	178	1.04(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188											
393.8025	37:01						1	2			
395.7995	37:01						1	2			
PCB-179											
393.8025	37:23	37:20	1	1.011	384	103	1	2	103		RQ
395.7995	37:22	37:20	0	1.010	760	178	1	2	178	0.51(0.89-1.21)	
Empc Correction					365	98	1	2	98		
PCB-184											
393.8025	37:52						1	2			
395.7995	37:52						1	2			
PCB-176											
393.8025	38:14						1	2			
395.7995	38:14						1	2			
PCB-186											
393.8025	38:41						1	2			
395.7995	38:41						1	2			
PCB-178											
393.8025	40:03	40:02	-2	1.082	85	45	1	2	45		RQ
395.7995	40:01	40:02	-3	1.082	504	274	1	2	274	0.17(0.89-1.21)	
Empc Correction					80	42	1	2	42		
PCB-175											
393.8025	40:40						1	2			
395.7995	40:40						1	2			
PCB-187											
393.8025	40:57	40:55	-1	1.107	917	320	1	2	320		RQM
395.7995	40:59	40:55	0	1.108	1230	376	1	2	376	0.75(0.89-1.21)	M
Empc Correction					873	304	1	2	304		
PCB-182											
393.8025	41:11						1	2			
395.7995	41:11						1	2			
PCB-183											
393.8025	41:35	41:39	0	1.124	1410	269	1	2	269		
395.7995	41:35	41:39	0	1.124	1186	443	1	2	443	1.19(0.89-1.21)	
PCB-185 (C183)											
393.8025	41:35	41:39	0	1.124	1410	269	1	2	269		
395.7995	41:35	41:39	0	1.124	1186	443	1	2	443	1.19(0.89-1.21)	
PCB-174											
393.8025	41:48	41:47	-1	1.130	758	330	1	2	330		RQ
395.7995	41:48	41:47	-1	1.130	1258	435	1	2	435	0.60(0.89-1.21)	
Empc Correction					721	314	1	2	314		
PCB-177											
393.8025	42:15						1	2			
395.7995	42:15						1	2			
PCB-181											
393.8025	42:38						1	2			
395.7995	42:38						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-171											
393.8025	42:52						1	2			
395.7995	42:52						1	2			
PCB-173 (C171)											
393.8025	42:52						1	2			
395.7995	42:52						1	2			
PCB-172											
393.8025	44:30						1	2			
395.7995	44:30						1	2			
PCB-192											
393.8025	44:46						1	2			
395.7995	44:46						1	2			
PCB-180											
393.8025	45:06	45:10	-1	0.911	1428	199	1	2	199		M
395.7995	45:09	45:10	2	0.913	1249	316	1	2	316	1.14(0.89-1.21)	M
PCB-193 (C180)											
393.8025	45:06	45:10	-1	0.911	1428	199	1	2	199		M
395.7995	45:09	45:10	2	0.913	1249	316	1	2	316	1.14(0.89-1.21)	M
PCB-191											
393.8025	45:30						1	2			
395.7995	45:30						1	2			
PCB-170											
393.8025	46:24	46:22	0	0.938	1137	498	1	2	498		RQ
	Empc Correction				472	134	1	2	134		
395.7995	46:24	46:22	0	0.938	450	128	1	2	128	2.53(0.89-1.21)	
PCB-190											
393.8025	46:55						1	2			
395.7995	46:55						1	2			
PCB-189											
393.8025	49:30						22	55			
395.7995	49:30						19	47			
PCB-202L											
439.8038	42:21	42:19	0	0.821	1478903	286561	20	50	14328		
441.8008	42:21	42:19	0	0.821	1664438	316216	71	177	4454	0.89(0.76-1.02)	
PCB-194L											
439.8038	51:35	51:36	-1		2210449	411213	142	355	2896		
441.8008	51:35	51:36	-1		2431982	449309	216	540	2080	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:03	52:02	-1	1.009	2302366	413874	142	355	2915		
441.8008	52:03	52:02	-1	1.009	2579063	458660	216	540	2123	0.89(0.76-1.02)	
PCB-202											
427.7635	42:22						4	10			
429.7606	42:22						1	2			
PCB-201											
427.7635	43:16						4	10			
429.7606	43:16						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-204											
427.7635	43:59						4	10			
429.7606	43:59						1	2			
PCB-197											
427.7635	44:10						4	10			
429.7606	44:10						1	2			
PCB-200											
427.7635	44:19						4	10			
429.7606	44:19						1	2			
PCB-198											
427.7635	47:06	47:05	1	1.112	309	160	4	10	40		RQ
	Empc Correction				30	16	4	10	4		
429.7606	47:06	47:05	1	1.112	34	18	1	2	18	9.09(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:06	47:05	1	1.112	309	160	4	10	40		RQ
	Empc Correction				30	16	4	10	4		
429.7606	47:06	47:05	1	1.112	34	18	1	2	18	9.09(0.76-1.02)	
PCB-196											
427.7635	47:45						4	10			
429.7606	47:45						1	2			
PCB-203											
427.7635	47:55	47:55	-2	0.920	344	106	4	10	27		RQ
	Empc Correction				270	88	4	10	22		
429.7606	47:57	47:55	0	0.921	304	99	1	2	99	1.13(0.76-1.02)	
PCB-195											
427.7635	49:16						22	55			
429.7606	49:16						13	32			
PCB-194											
427.7635	51:37						22	55			
429.7606	51:37						13	32			
PCB-205											
427.7635	52:04						22	55			
429.7606	52:04						13	32			
PCB-208L											
473.7648	49:01	48:59	-1	0.950	1947748	355565	364	910	977		
475.7619	49:01	48:59	-1	0.950	2427732	447275	854	2135	524	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:48	53:47	-1	1.043	1378662	246754	364	910	678		
475.7619	53:48	53:47	-1	1.043	1717757	313546	854	2135	367	0.80(0.65-0.89)	
PCB-208											
461.7246	49:01						129	322			
463.7216	49:01						258	645			
PCB-207											
461.7246	49:57						129	322			
463.7216	49:57						258	645			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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PCB-206

461.7246	53:49						129	322			
463.7216	53:49						258	645			

PCB-209L

507.7258	55:25	55:24	-1	1.074	1346199	236309	90	225	2626		
509.7229	55:25	55:24	-1	1.074	1897771	331648	58	145	5718	0.71(0.59-0.79)	

DCB Decachlorobiphenyl

495.6856	55:24	55:25	-4	1.000	1310	352	41	102	9		RQM
	Empc Correction				968	168	41	102	4		M
497.6826	55:25	55:25	-2	1.000	1403	244	2	5	122	0.93(0.59-0.79)	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d

Injection Date: 11-Jun-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 1 COMBINED

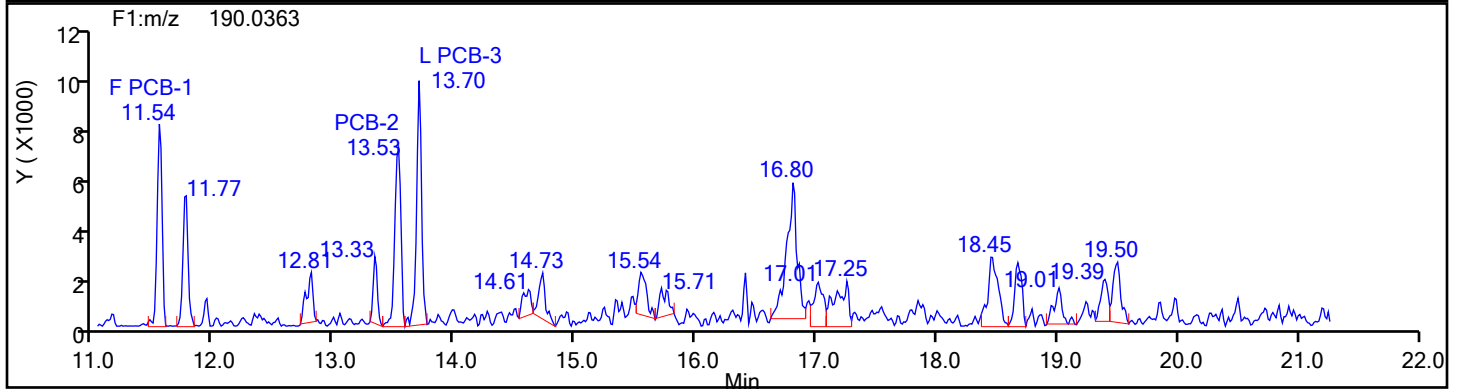
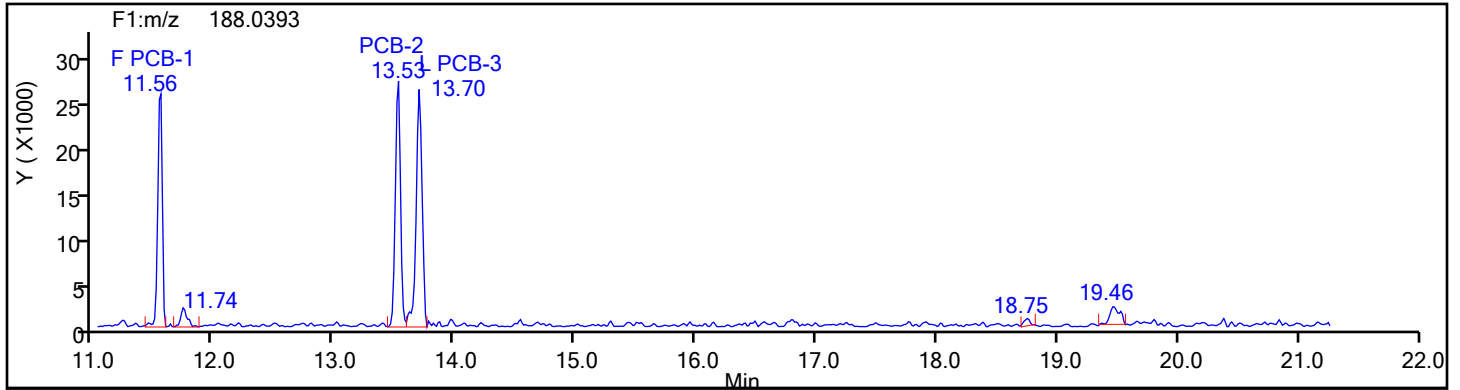
Worklist#: 87502

Sample Line#: 9

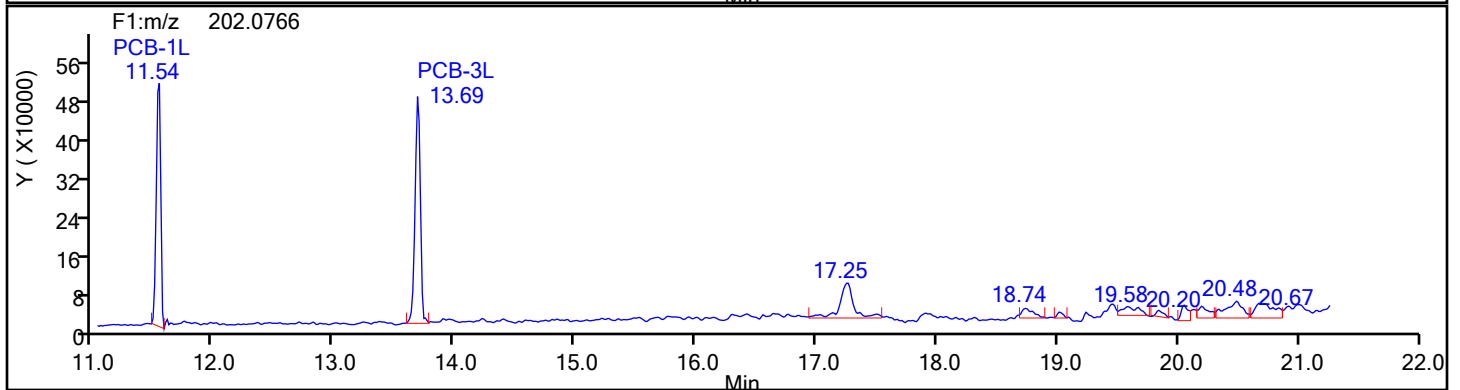
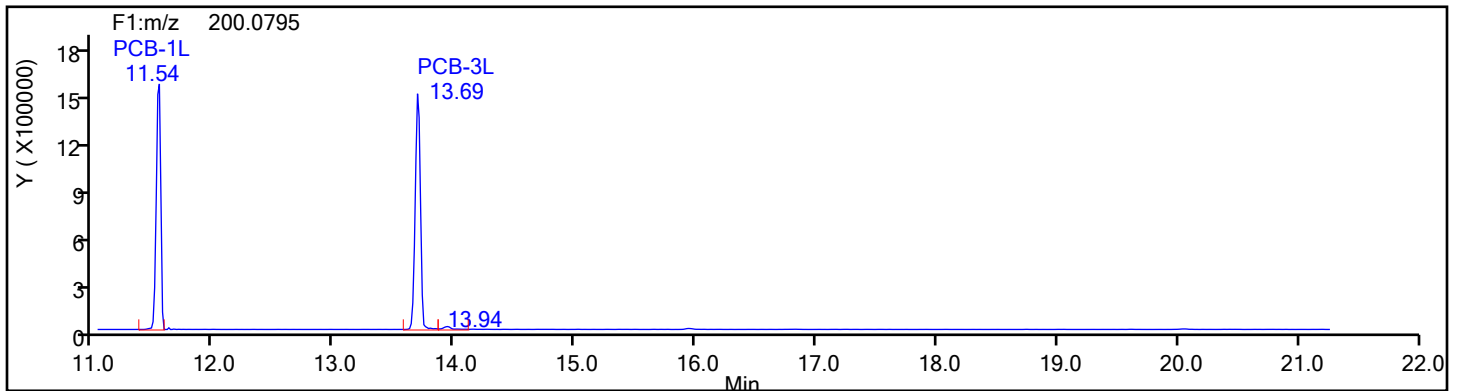
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1

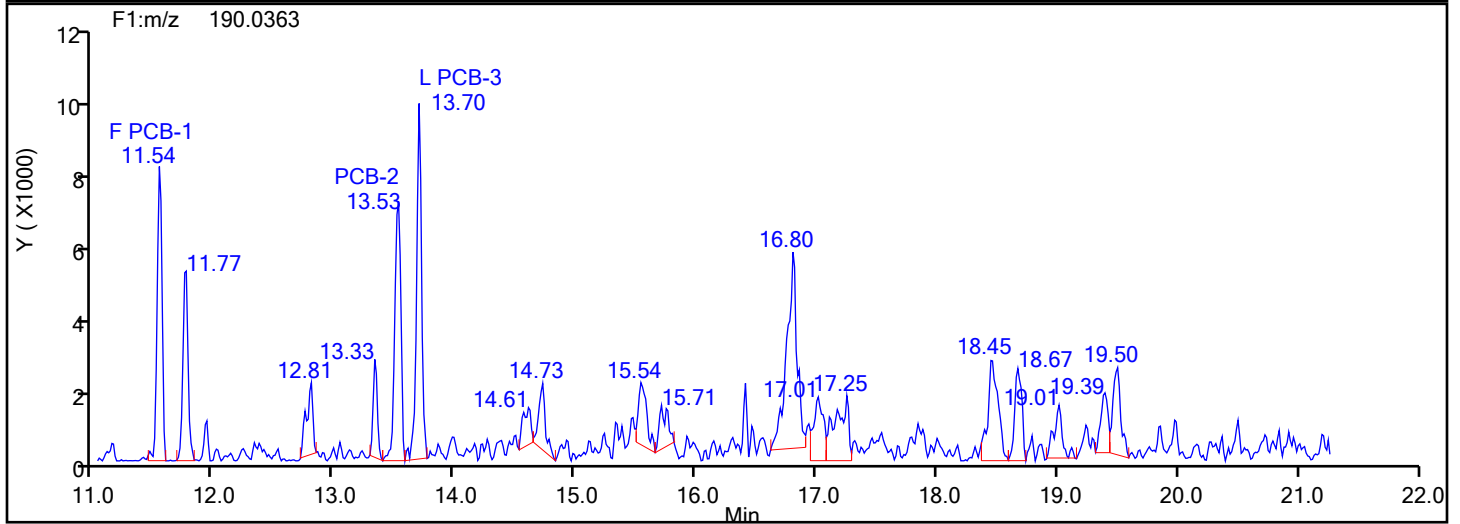
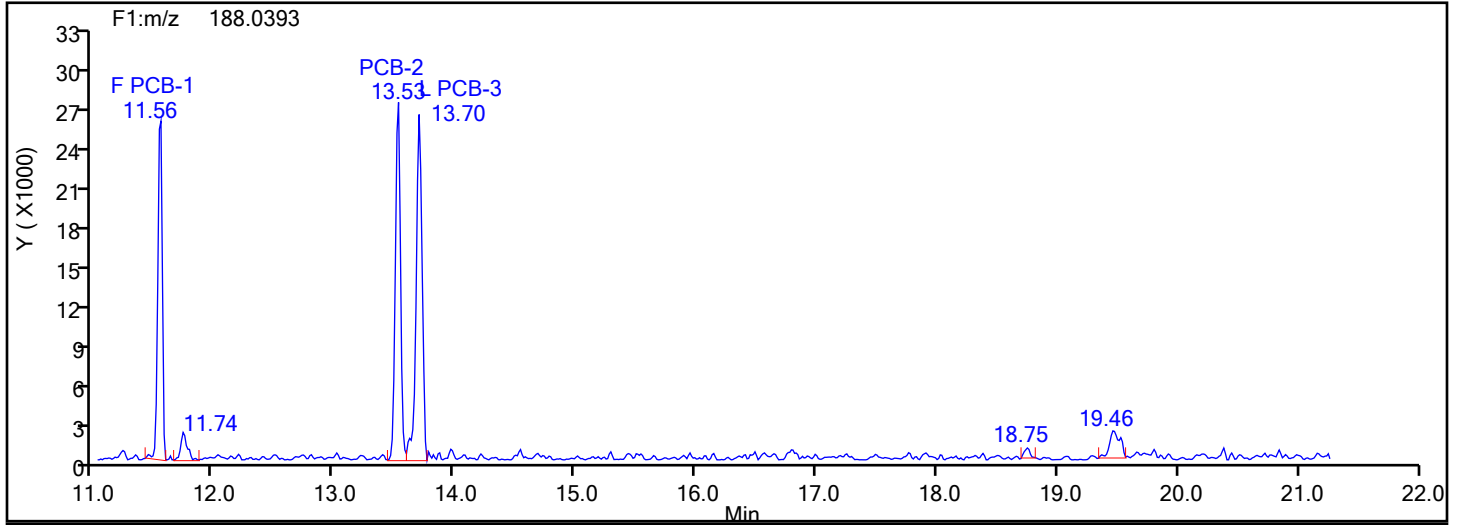


MoPCB F1 Standards

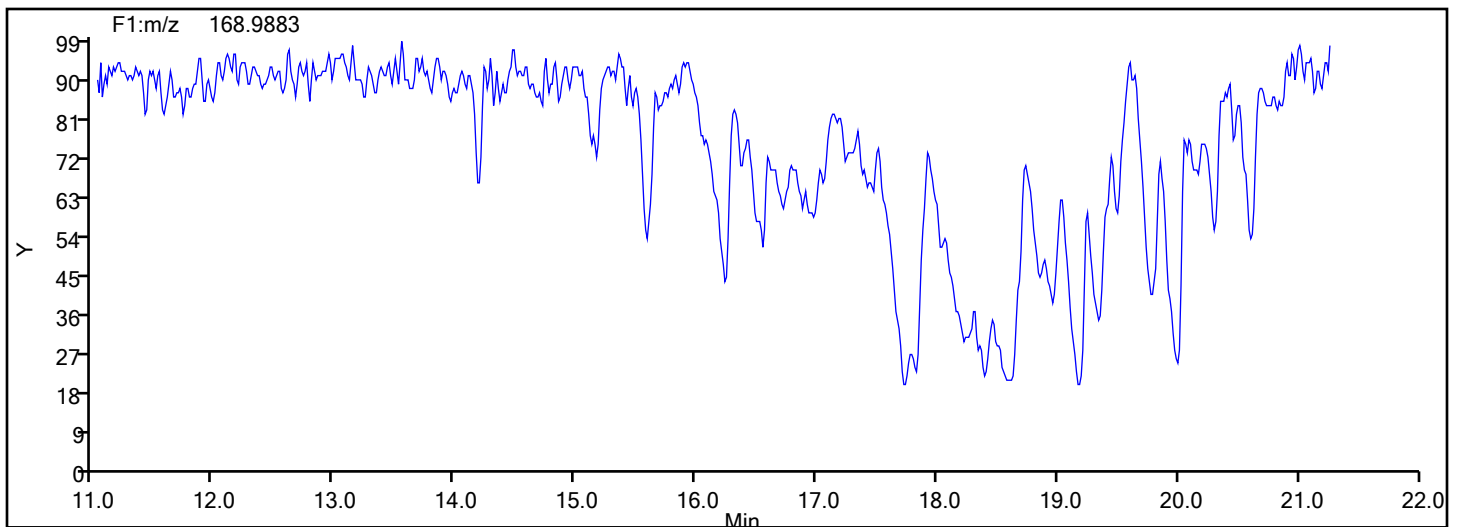


Eurofins Knoxville

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Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

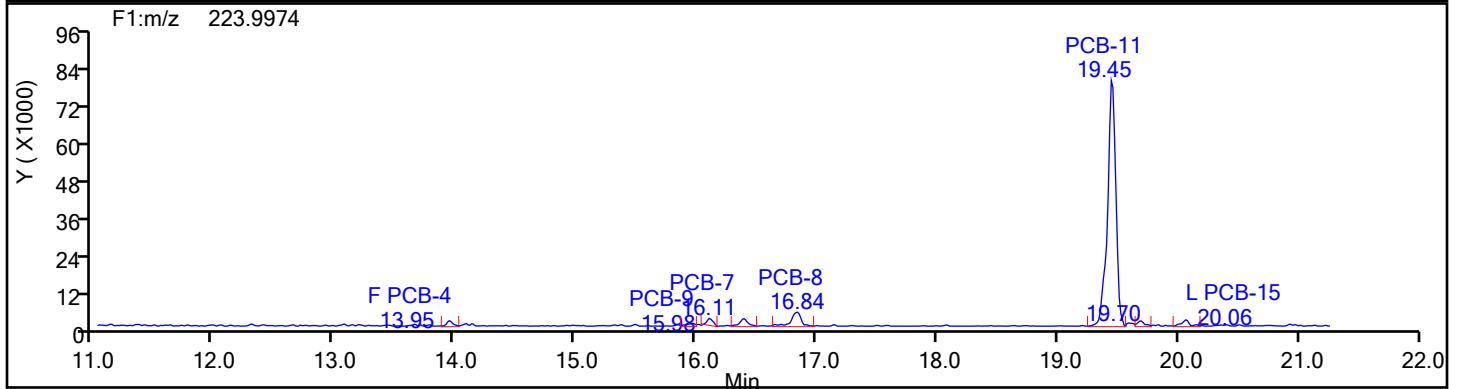
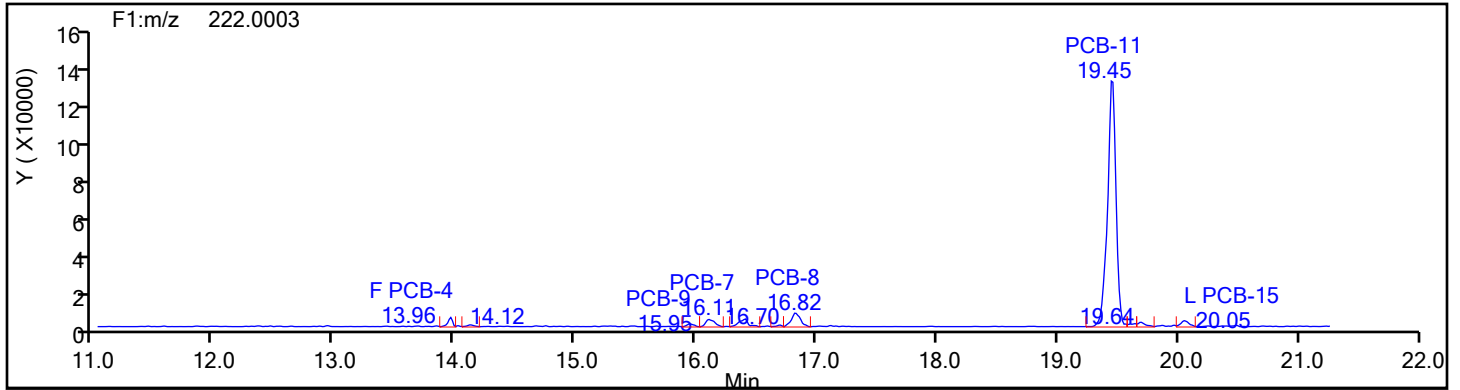


MoPCB F1 Lock Mass

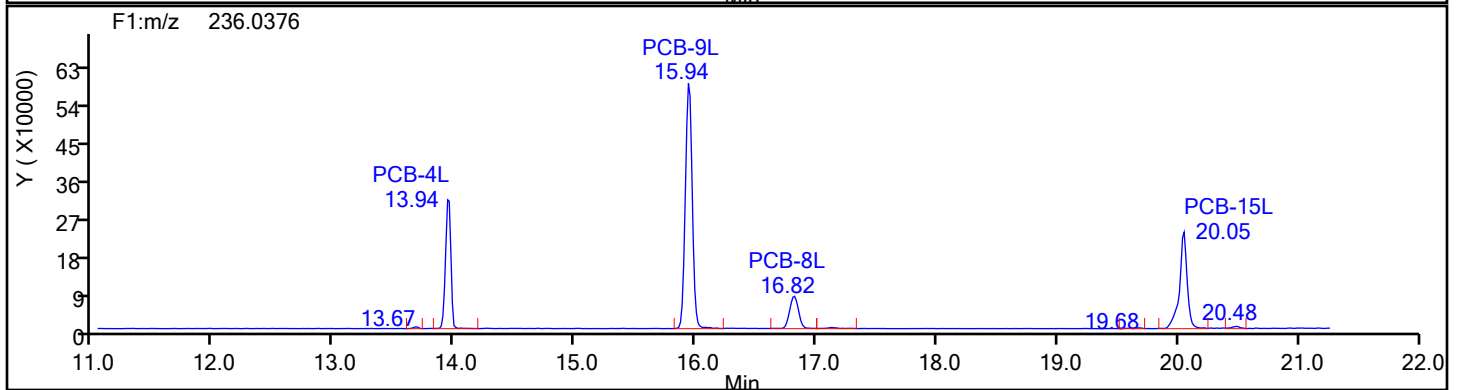
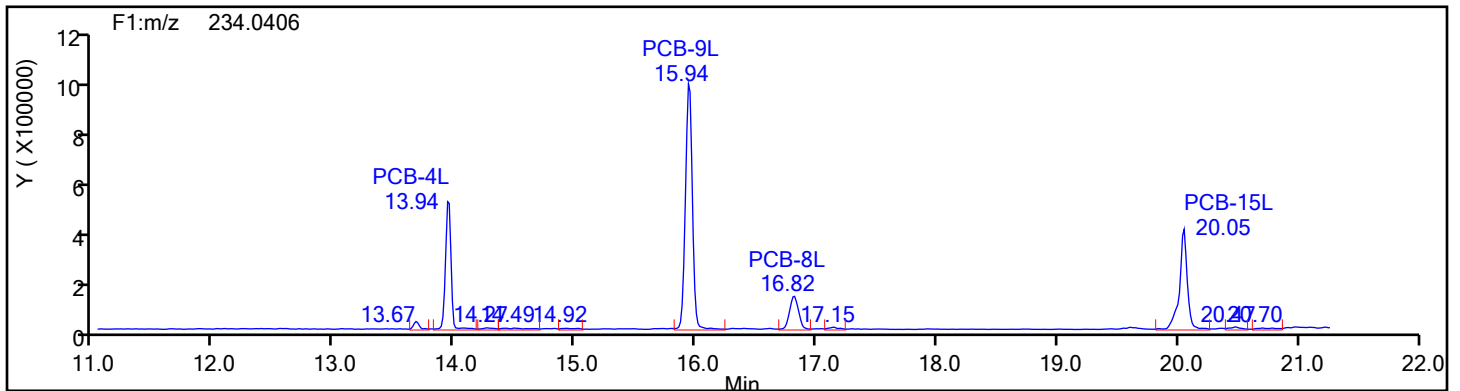


Eurofins Knoxville

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Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

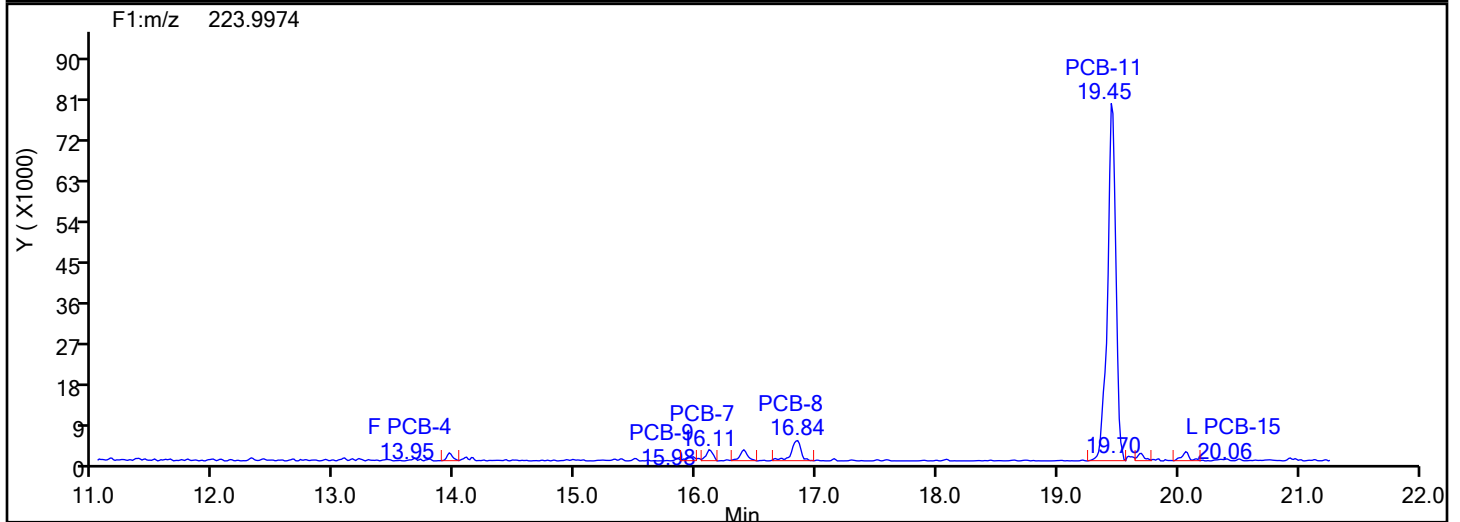
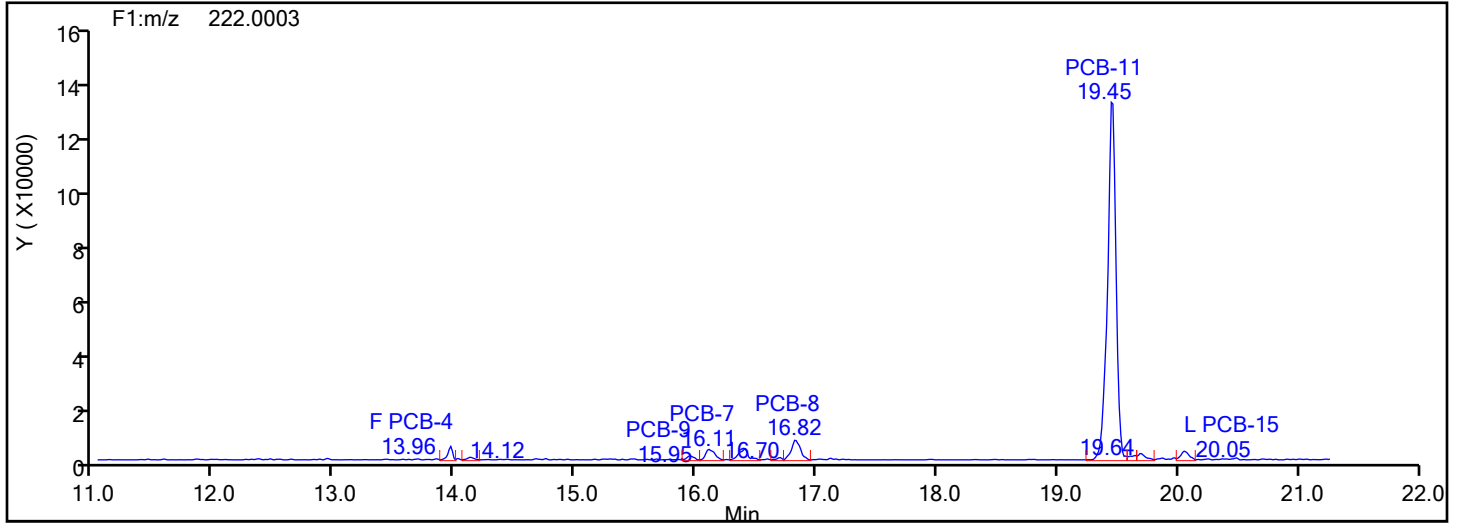


DiPCB F1 Standards

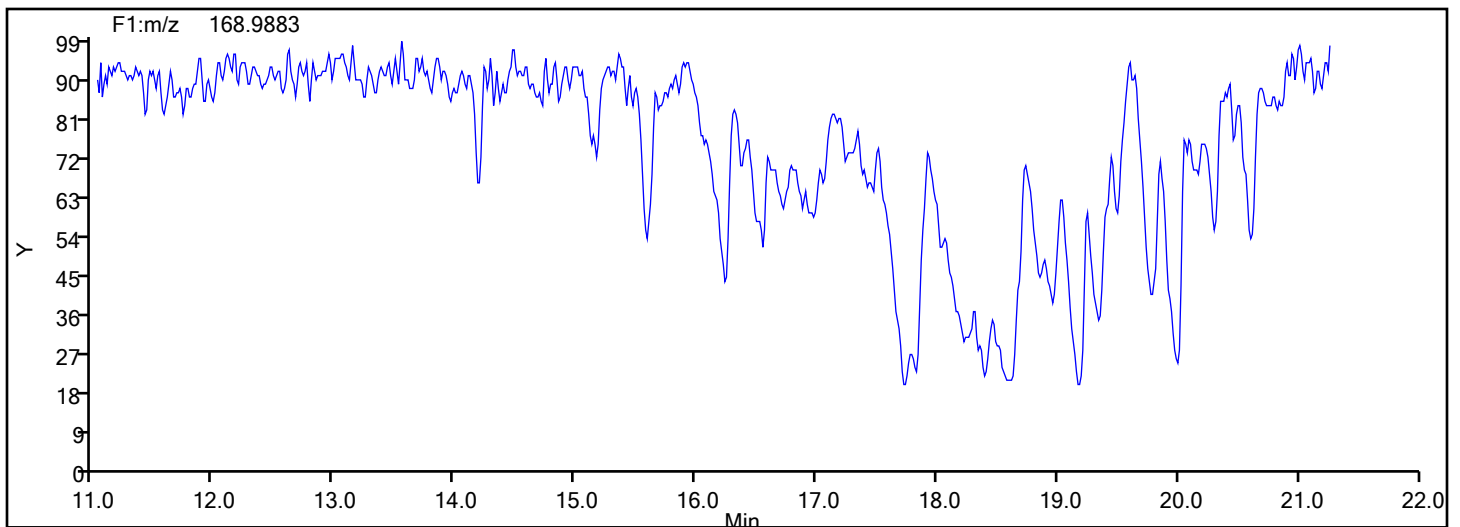


Eurofins Knoxville

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Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

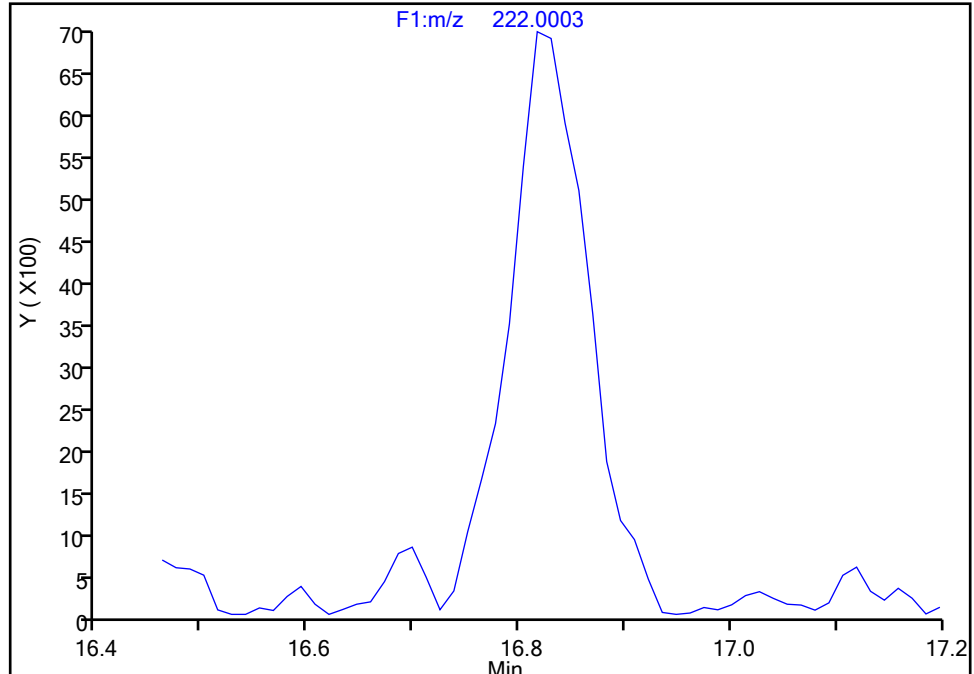
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Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

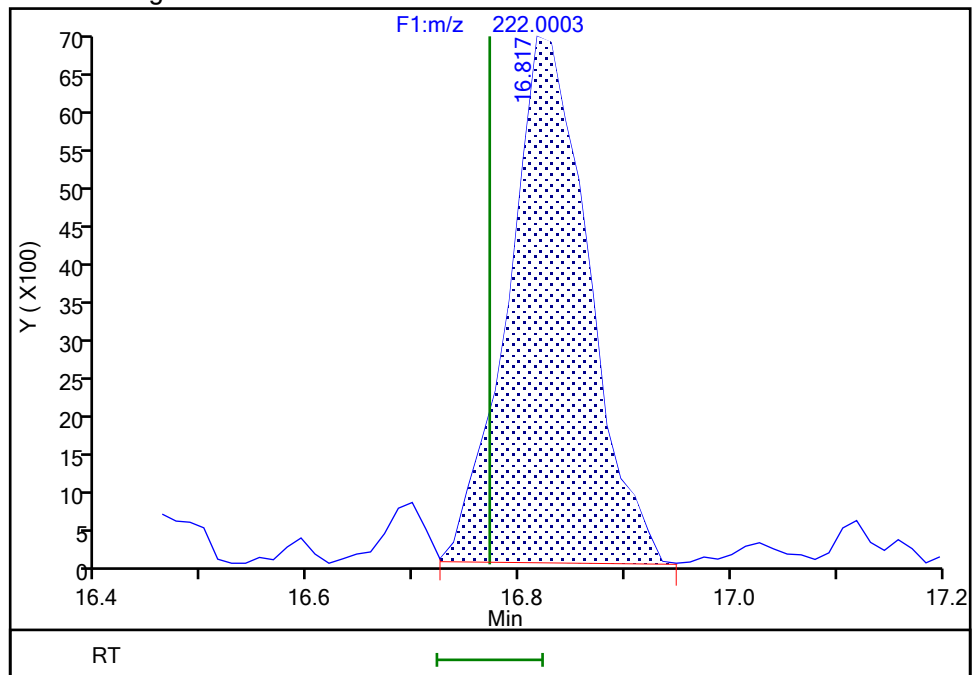
Not Detected
Expected RT: 16.77

Processing Integration Results



RT: 16.82
Area: 36194
Amount: 1.482356
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 17:25:44 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

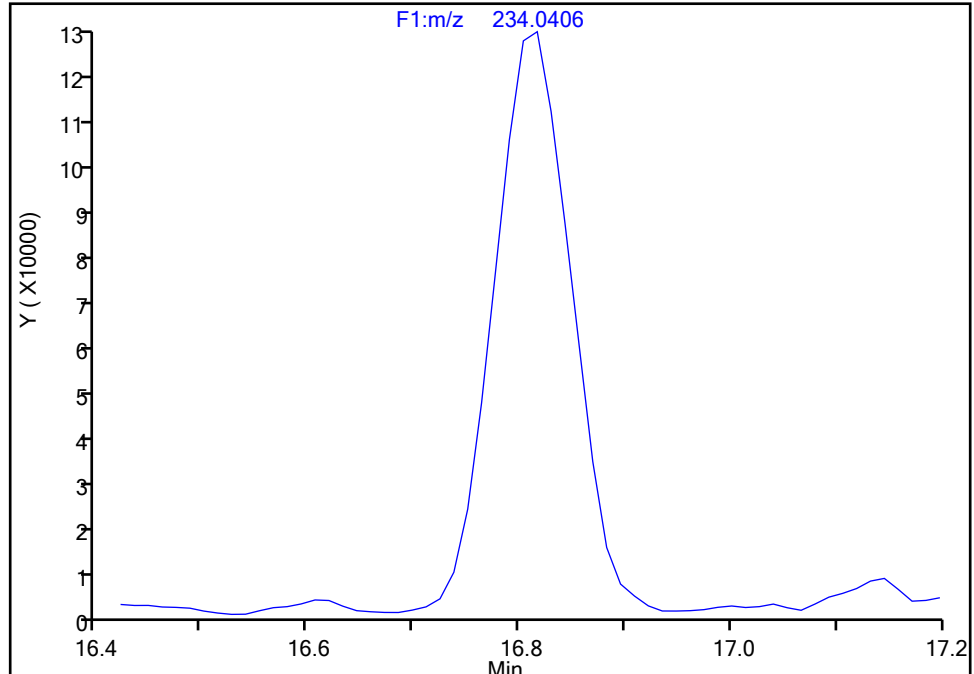
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Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

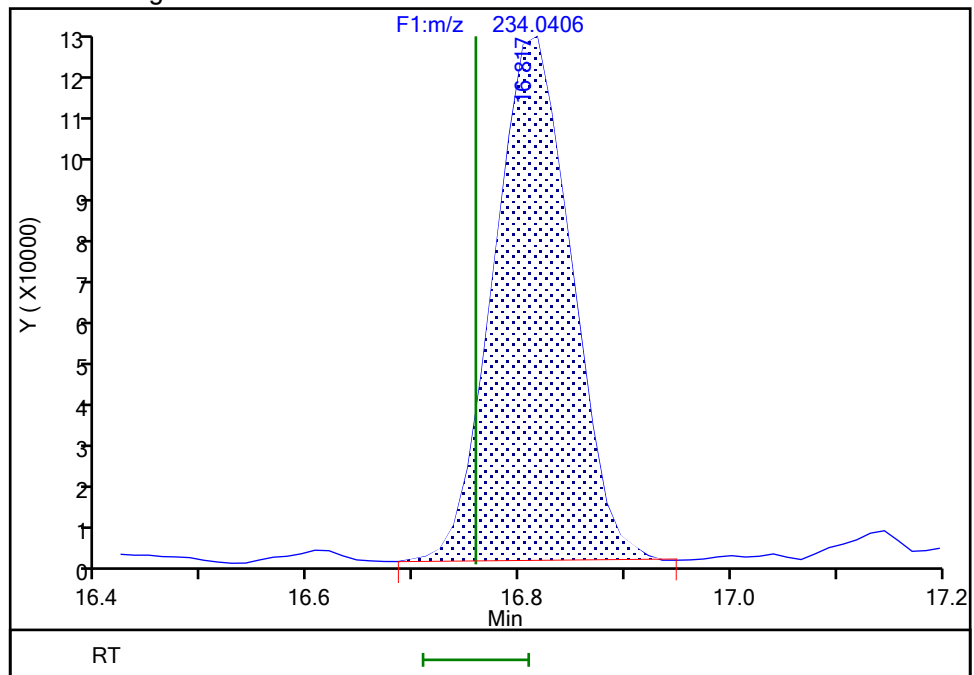
Not Detected
Expected RT: 16.76

Processing Integration Results



RT: 16.82
Area: 640592
Amount: 32.797101
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 17:25:06 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

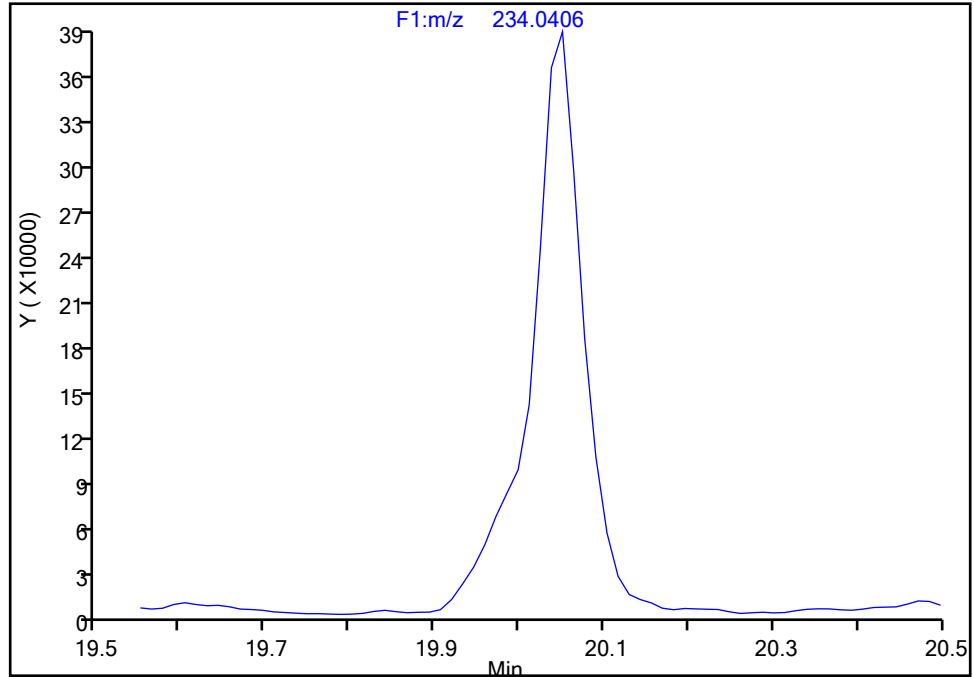
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Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-15L, CAS: 208263-67-6

Signal: 1

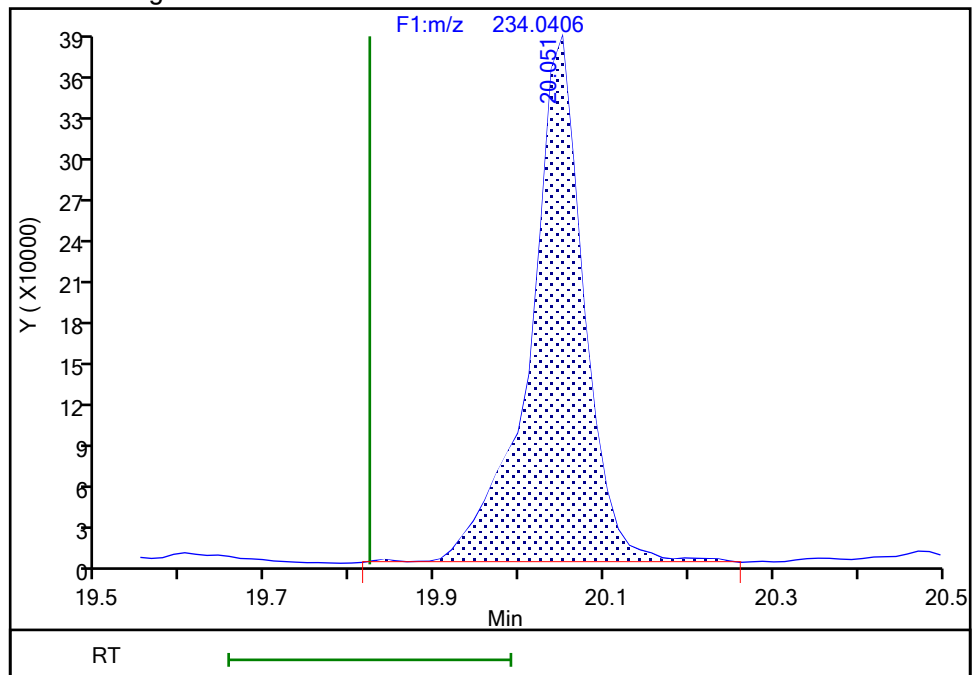
Not Detected
Expected RT: 19.82

Processing Integration Results



RT: 20.05
Area: 1706081
Amount: 41.511019
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 17:25:09 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d

Injection Date: 11-Jun-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 1 COMBINED

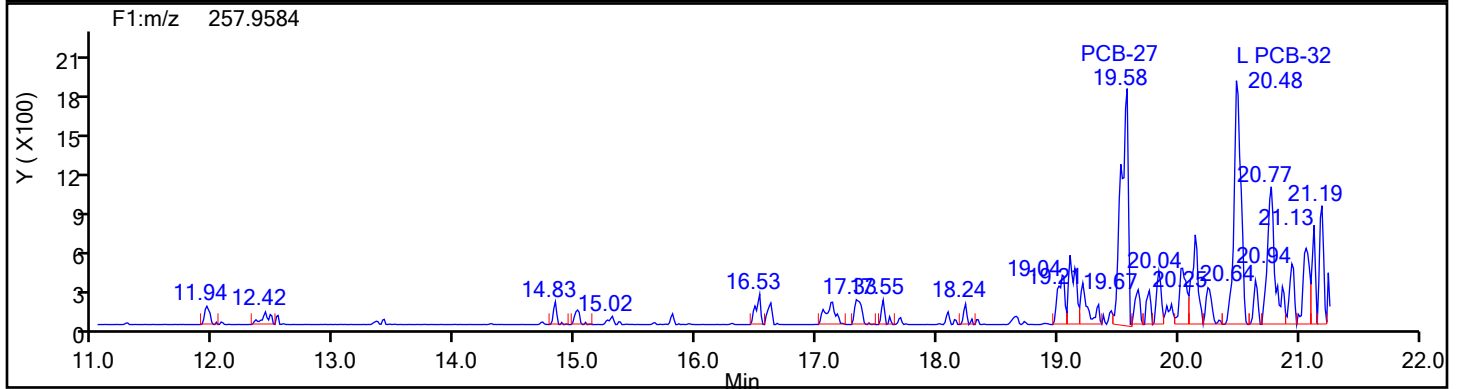
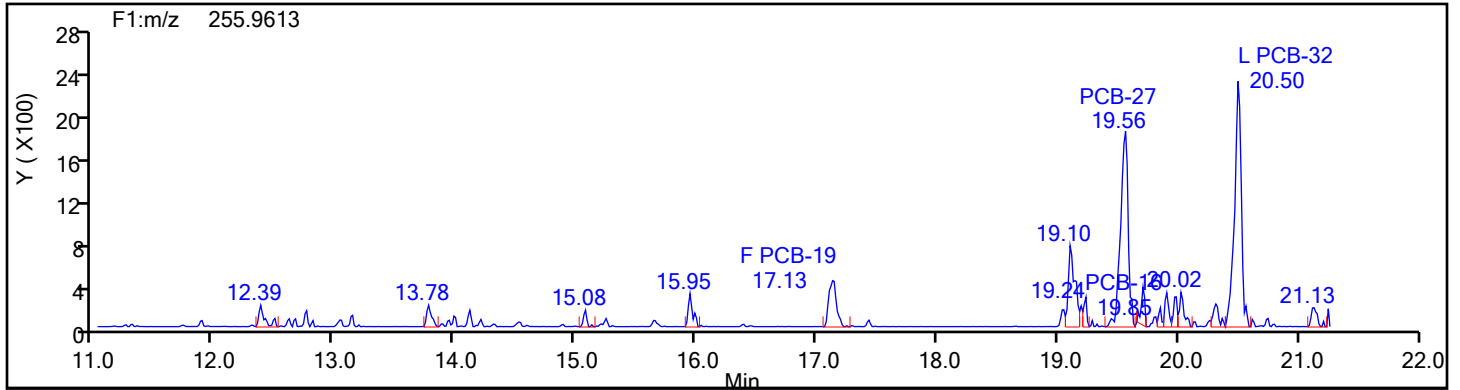
Worklist#: 87502

Sample Line#: 9

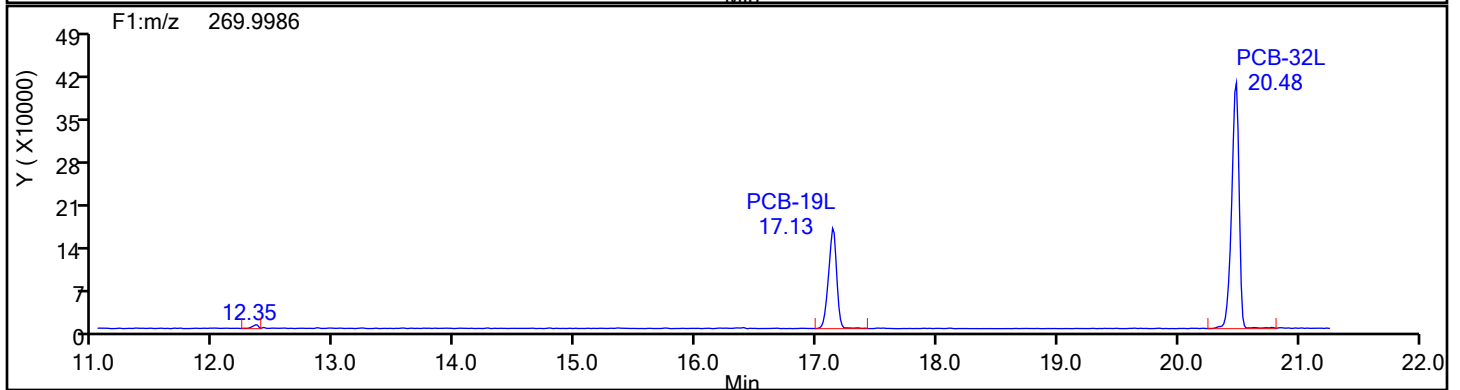
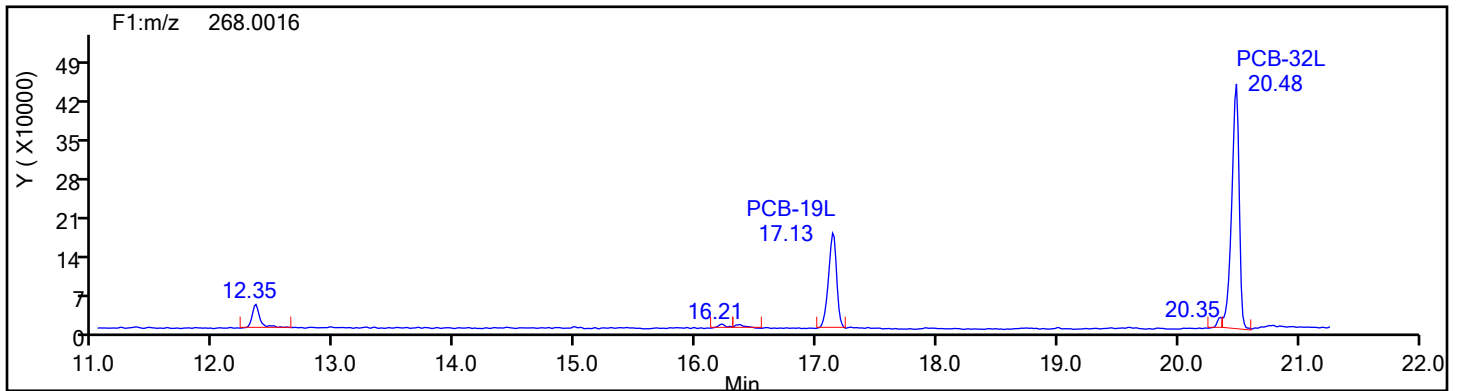
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1

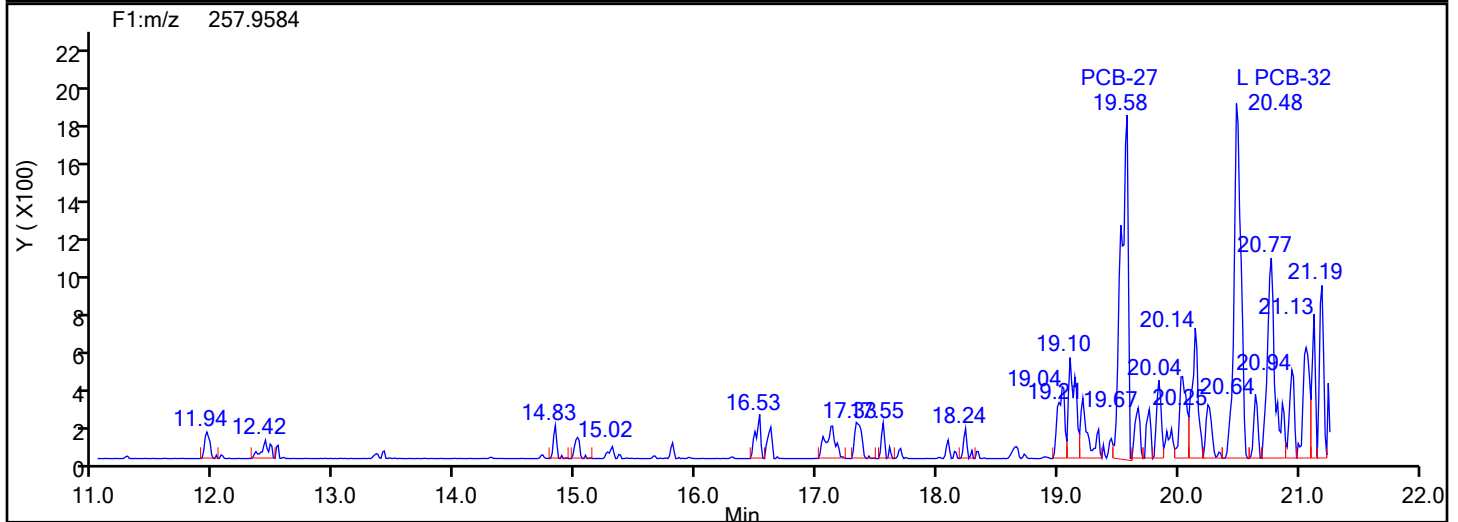
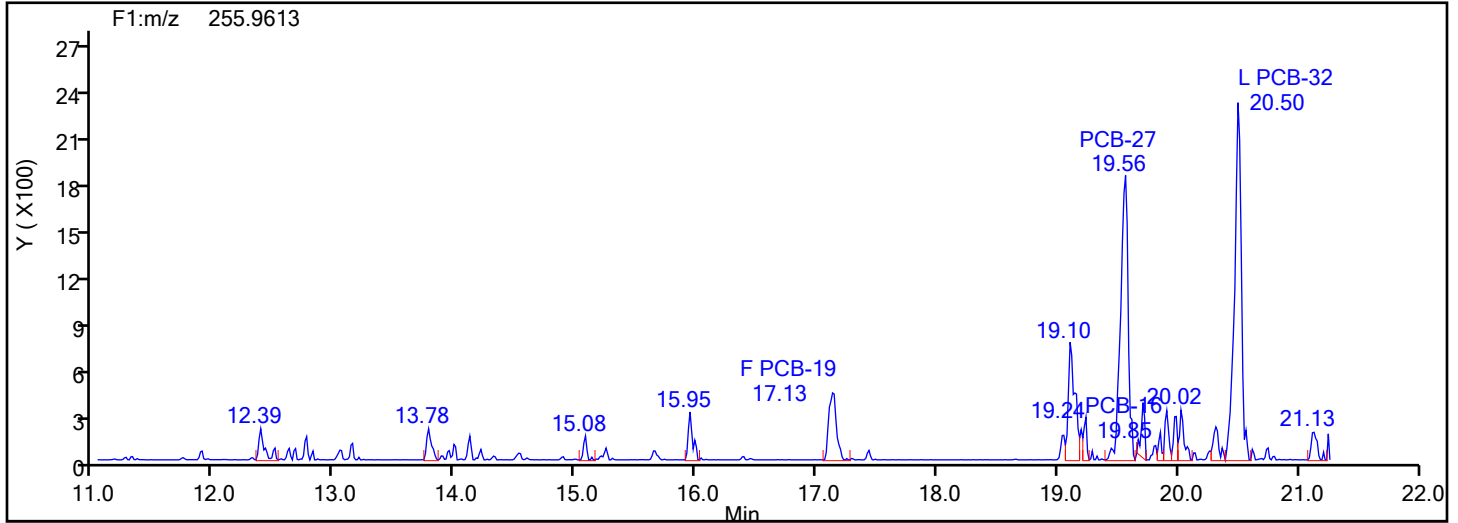


TriPCB F1 Standards

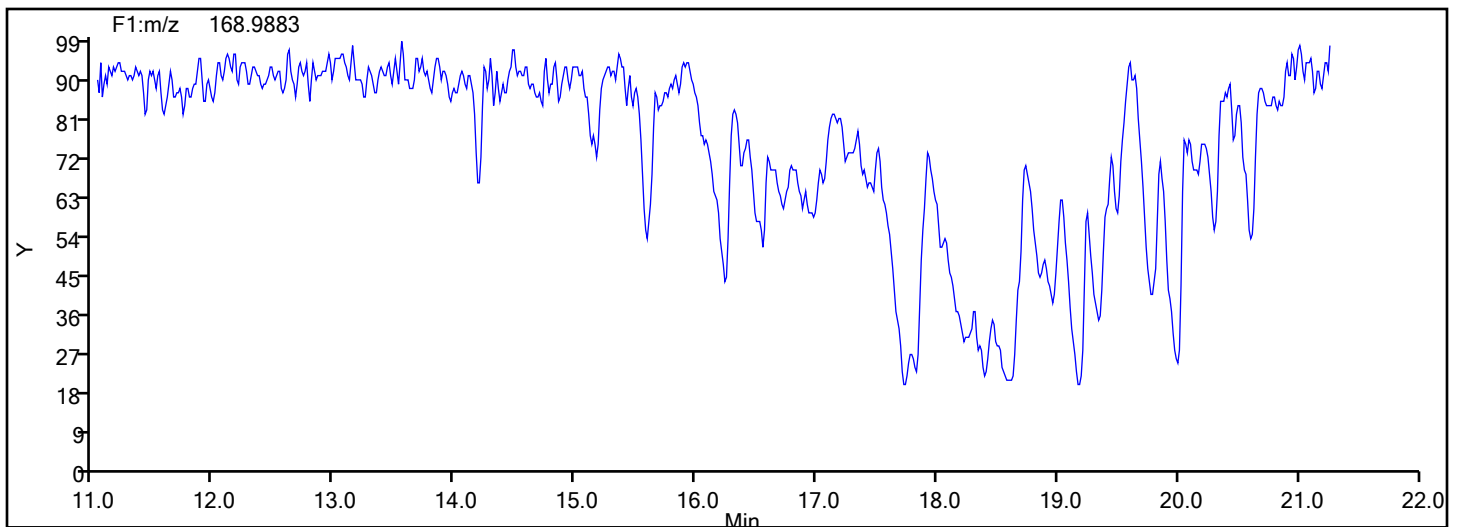


Eurofins Knoxville

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Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1

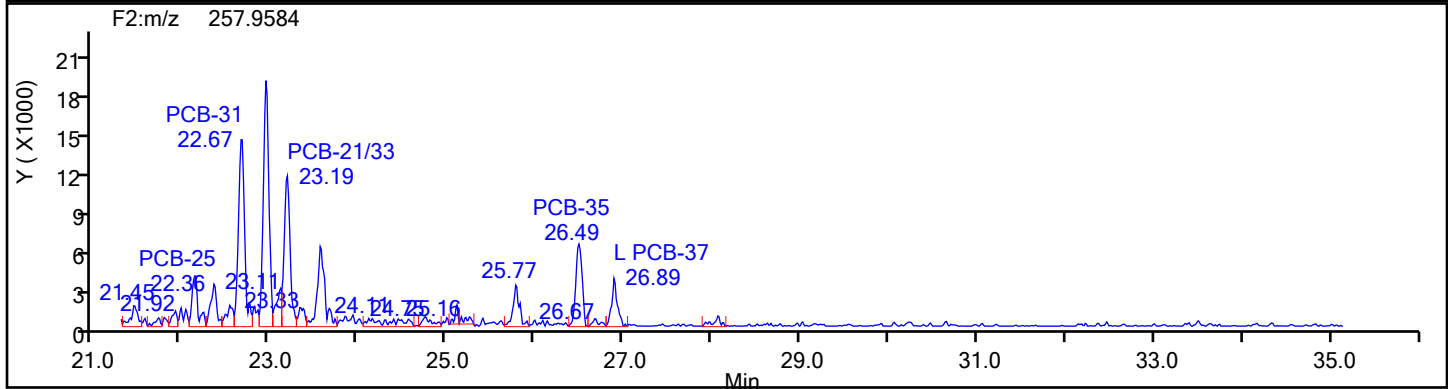
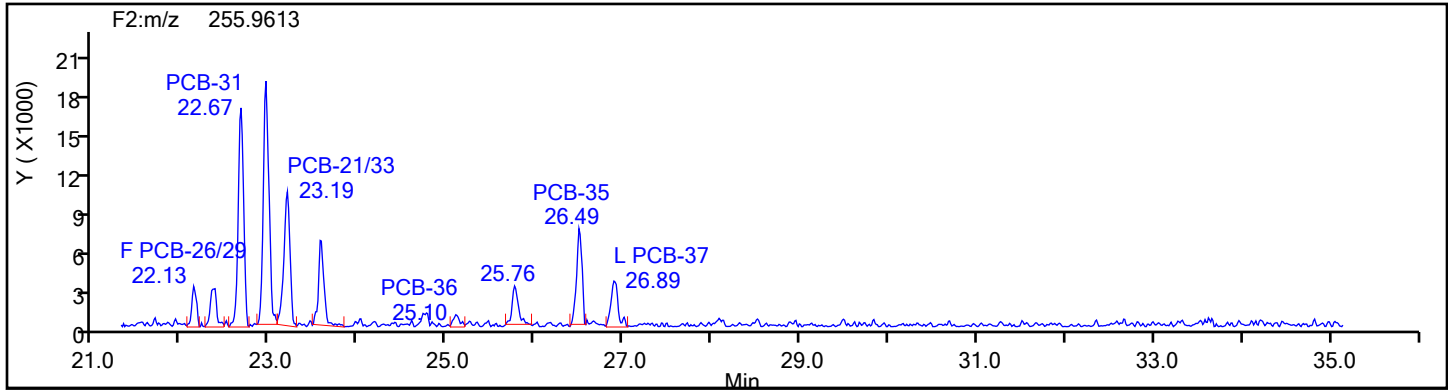


TriPCB F1 Lock Mass

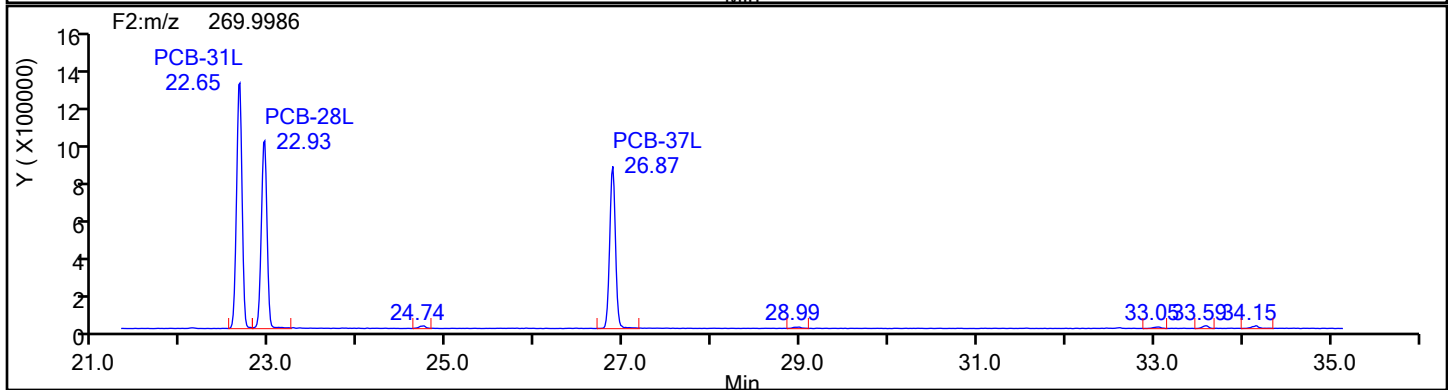
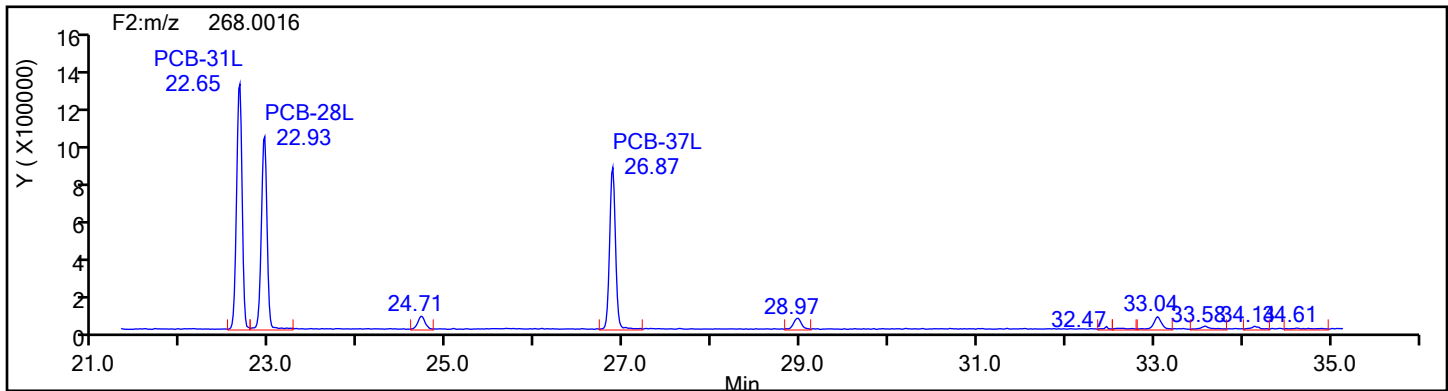


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

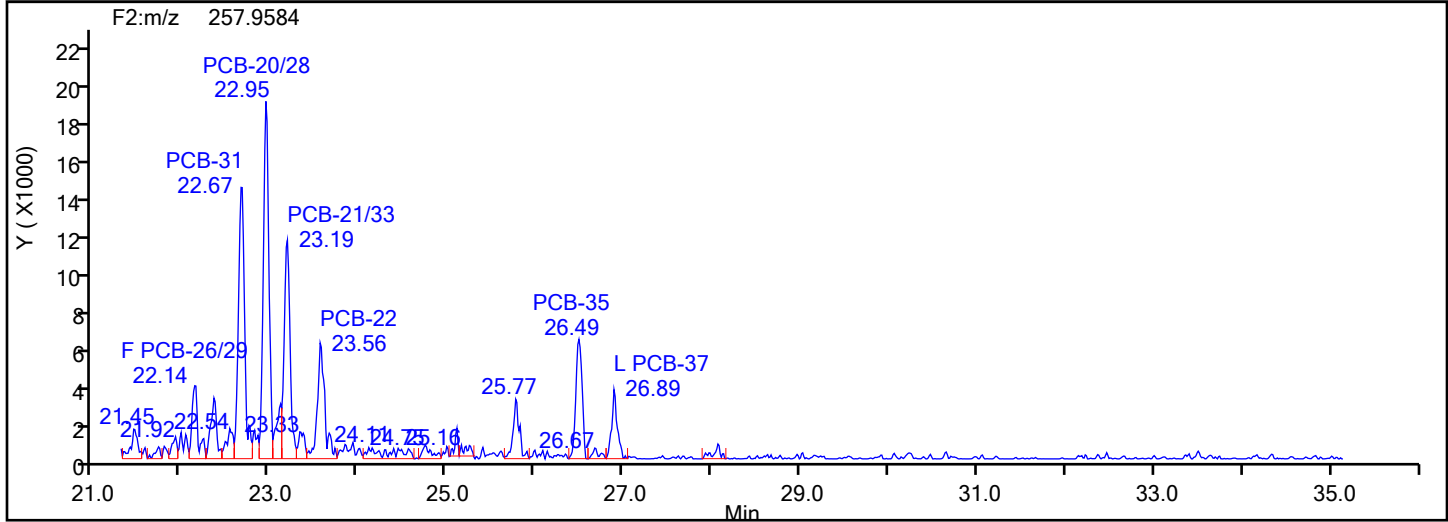
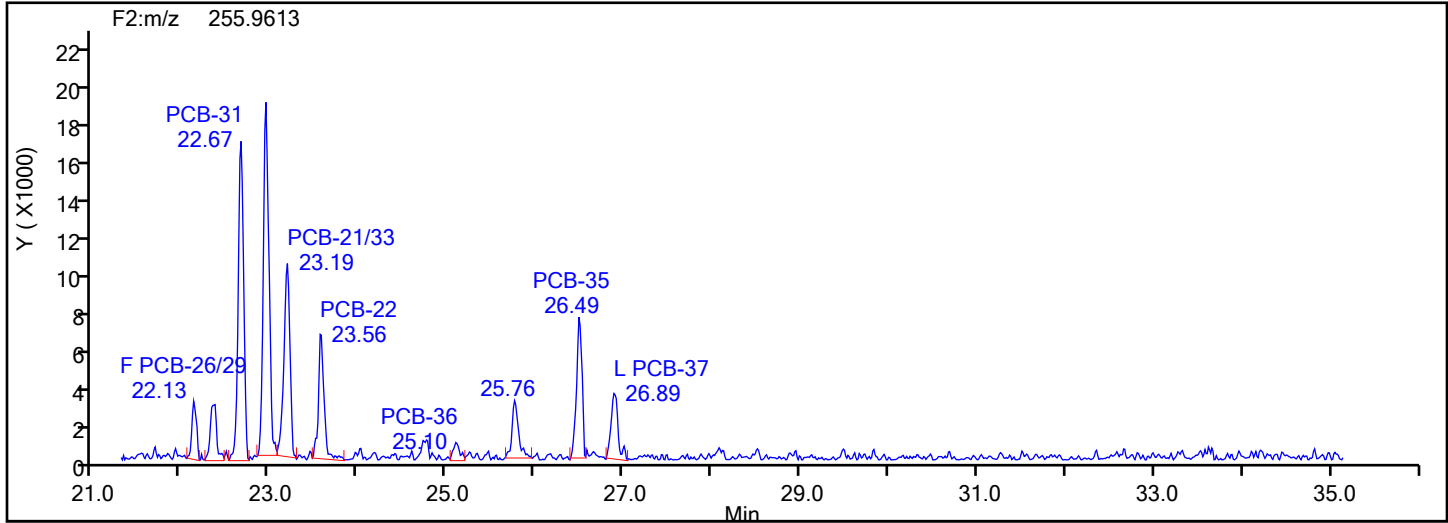


TriPCB F2 Standards

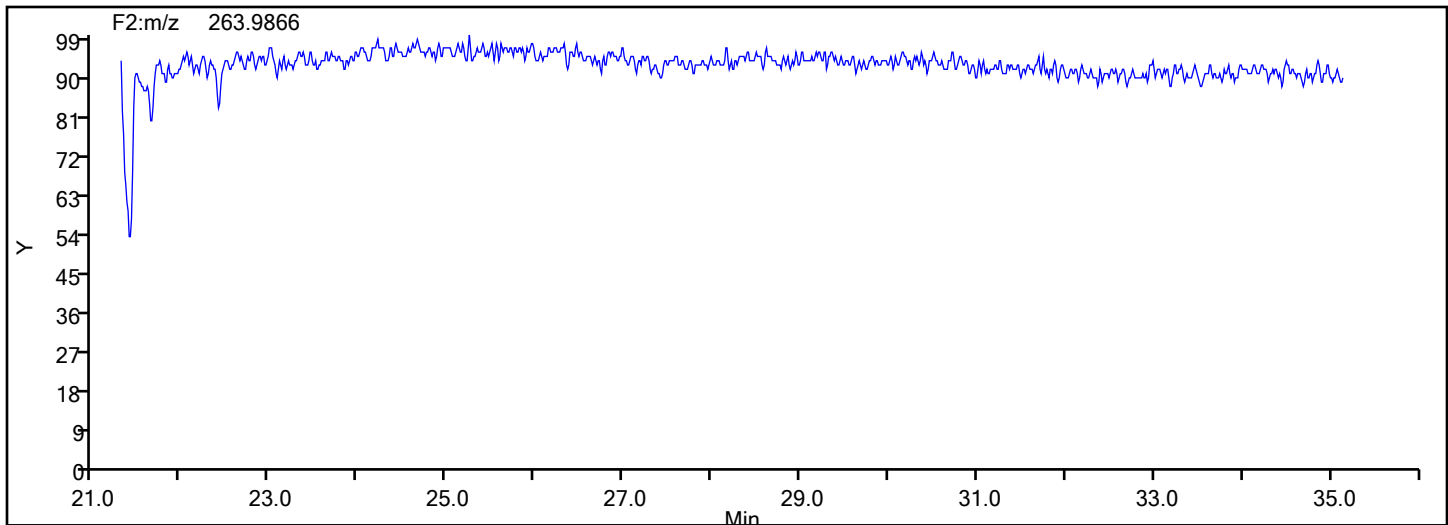


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d

Injection Date: 11-Jun-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 1 COMBINED

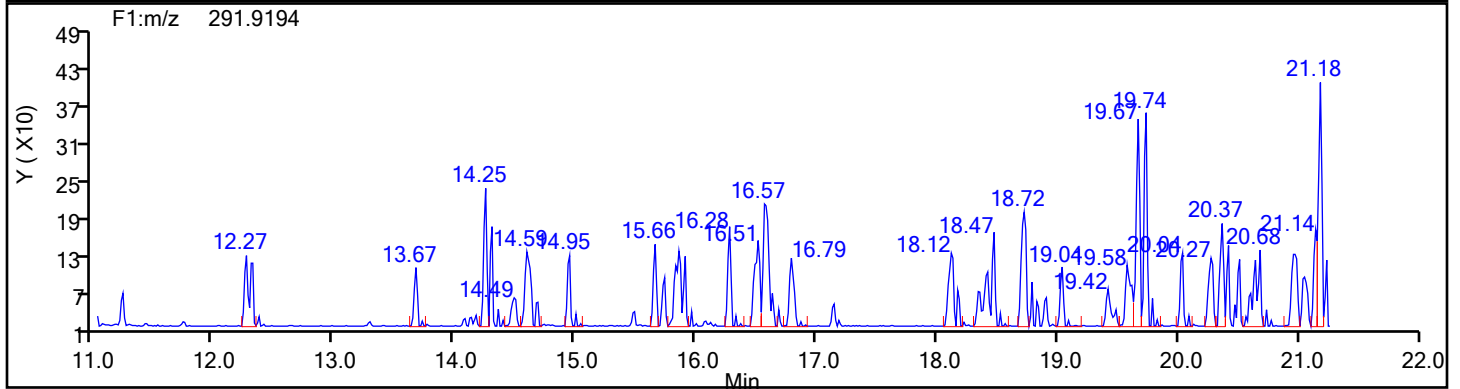
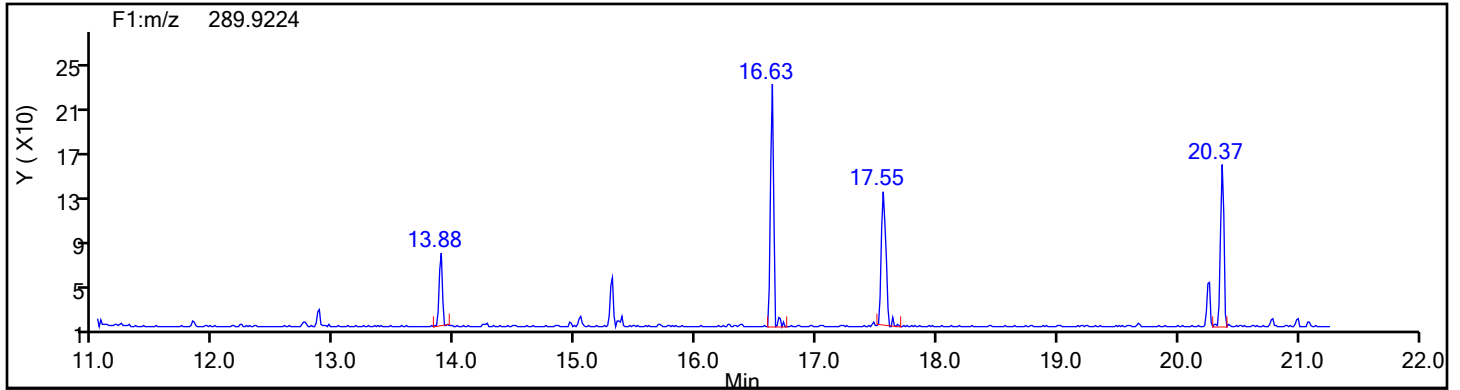
Worklist#: 87502

Sample Line#: 9

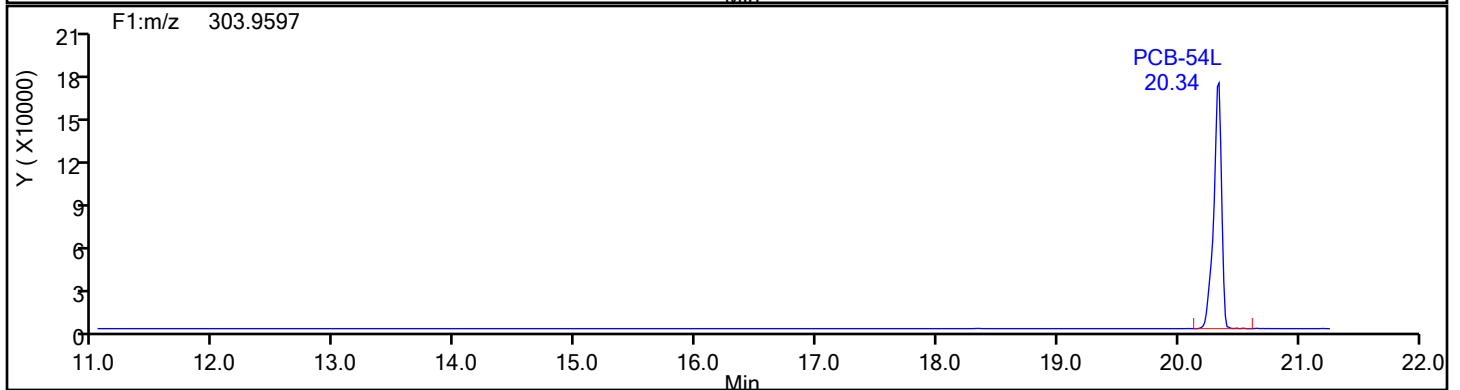
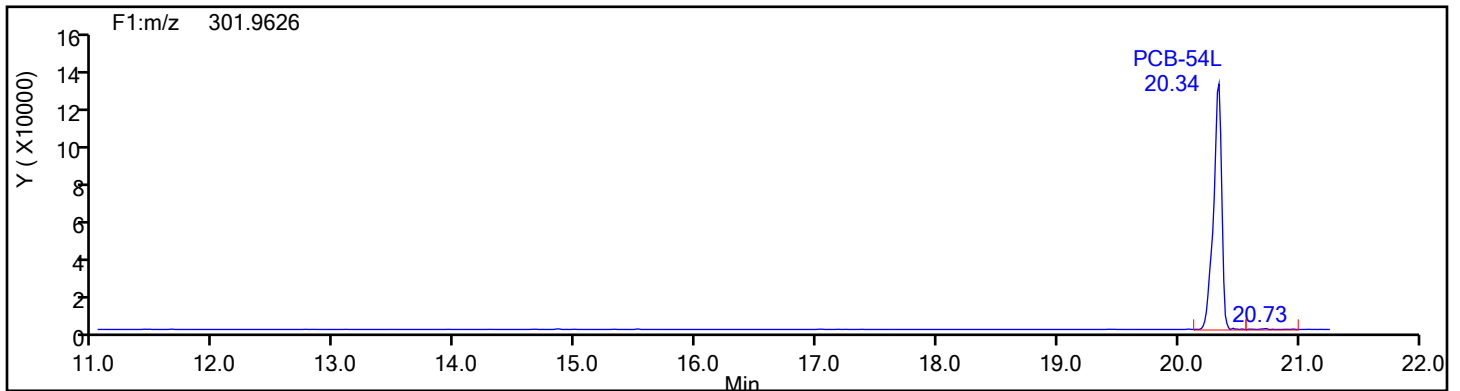
Column Type: SPB-Octyl

Column Dia: 0.25 mm

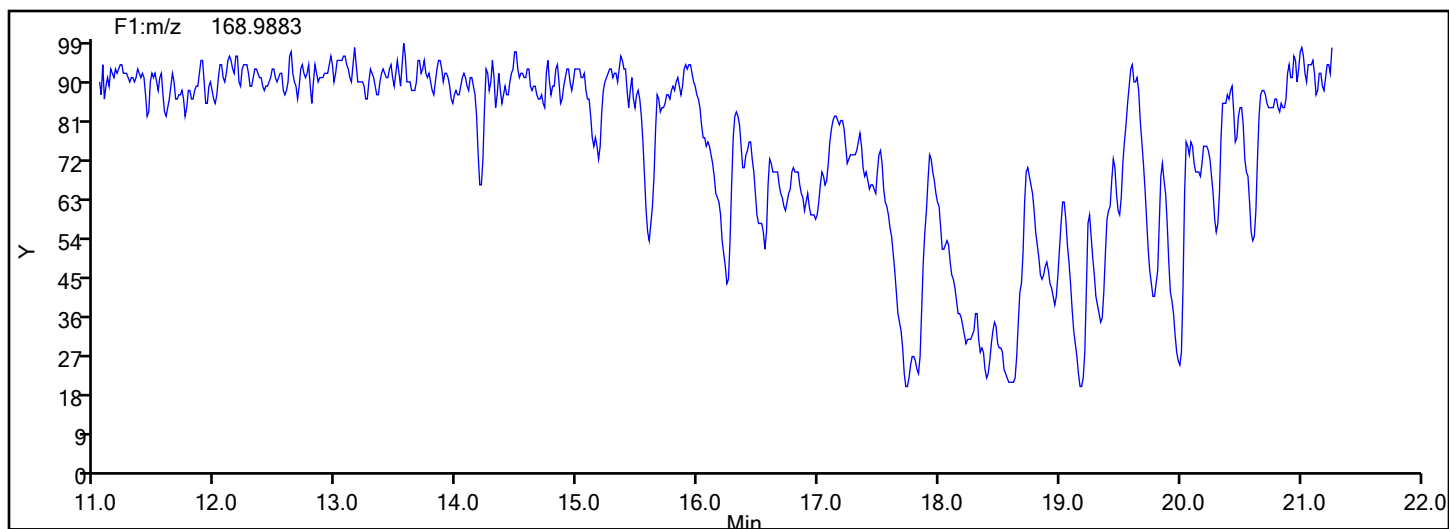
TePCB F1



TePCB F1 Standards



Column Dia: 0.25 mm



Eurofins Knoxville

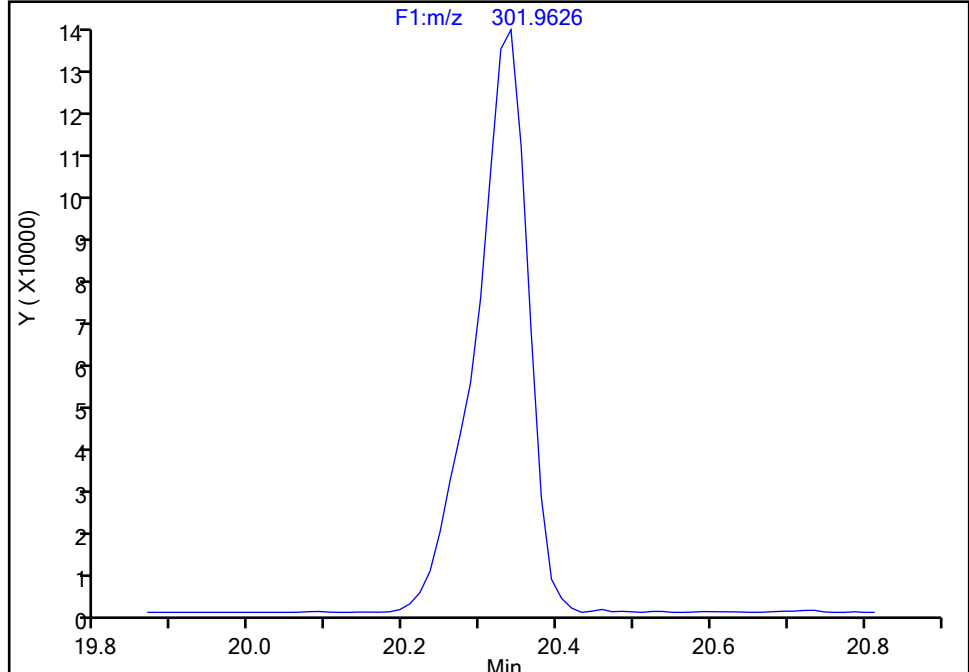
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Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 1

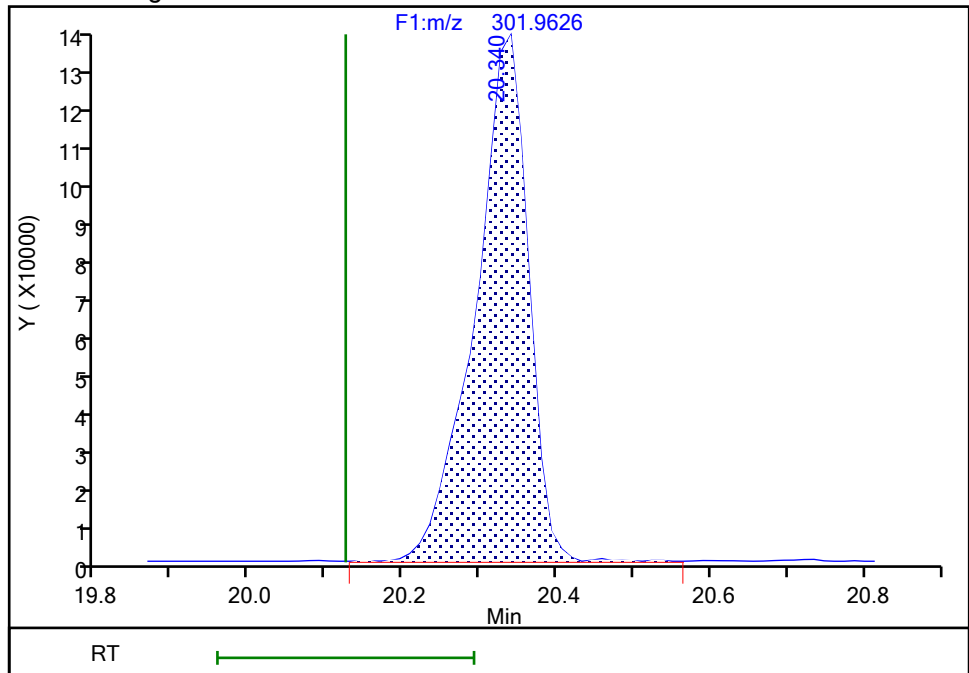
Not Detected
Expected RT: 20.12

Processing Integration Results



RT: 20.34
Area: 624604
Amount: 68.817337
Amount Units: pg/ul

Manual Integration Results



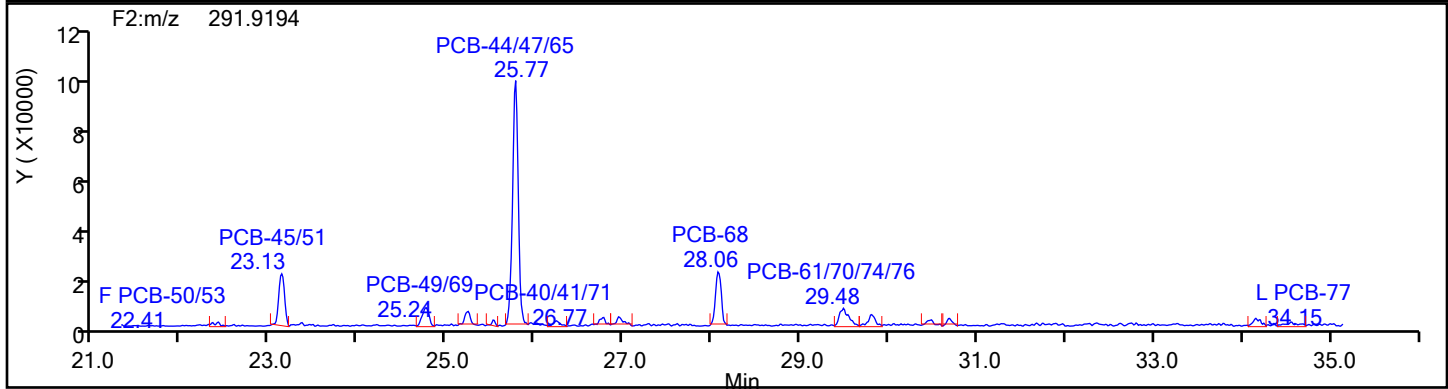
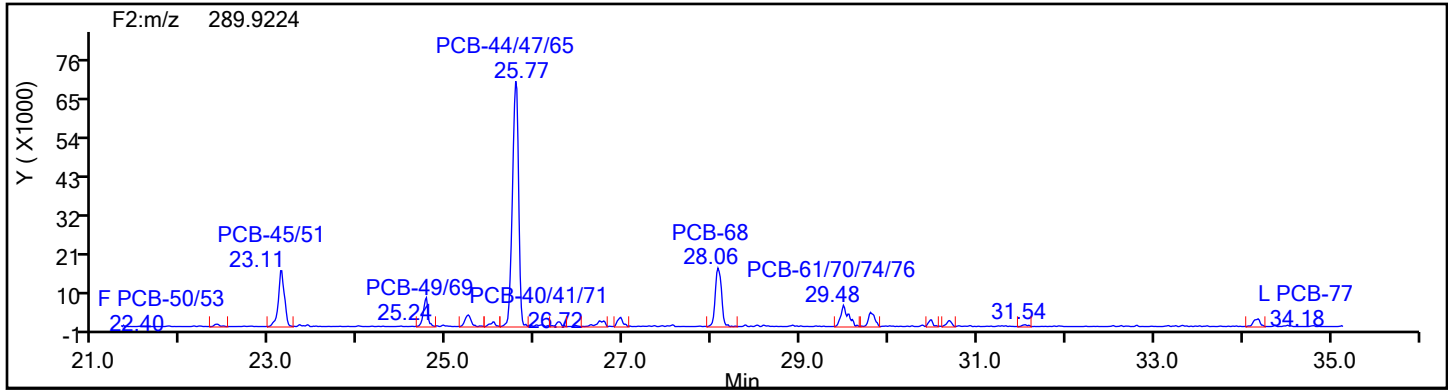
Reviewer: P0IK, 11-Jun-2024 17:51:25 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

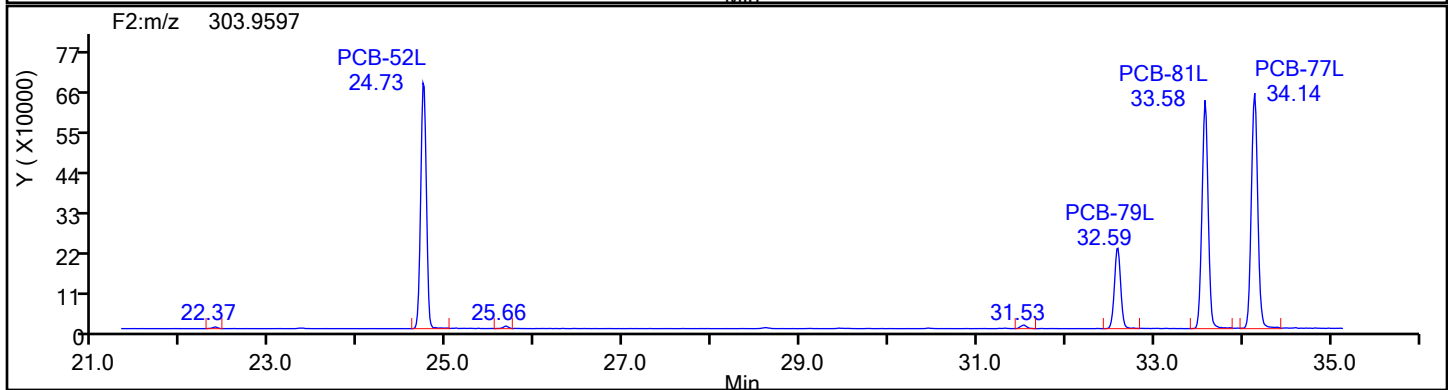
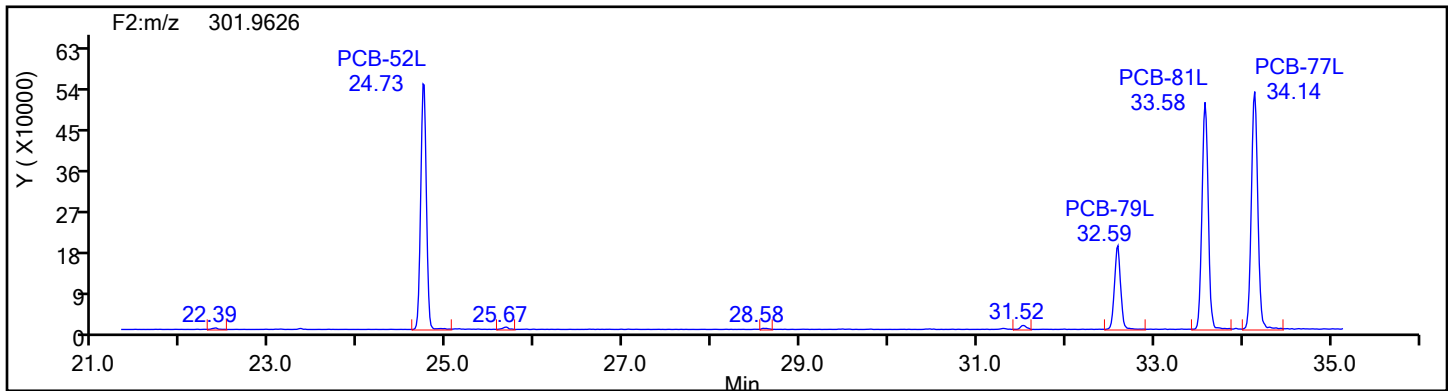
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

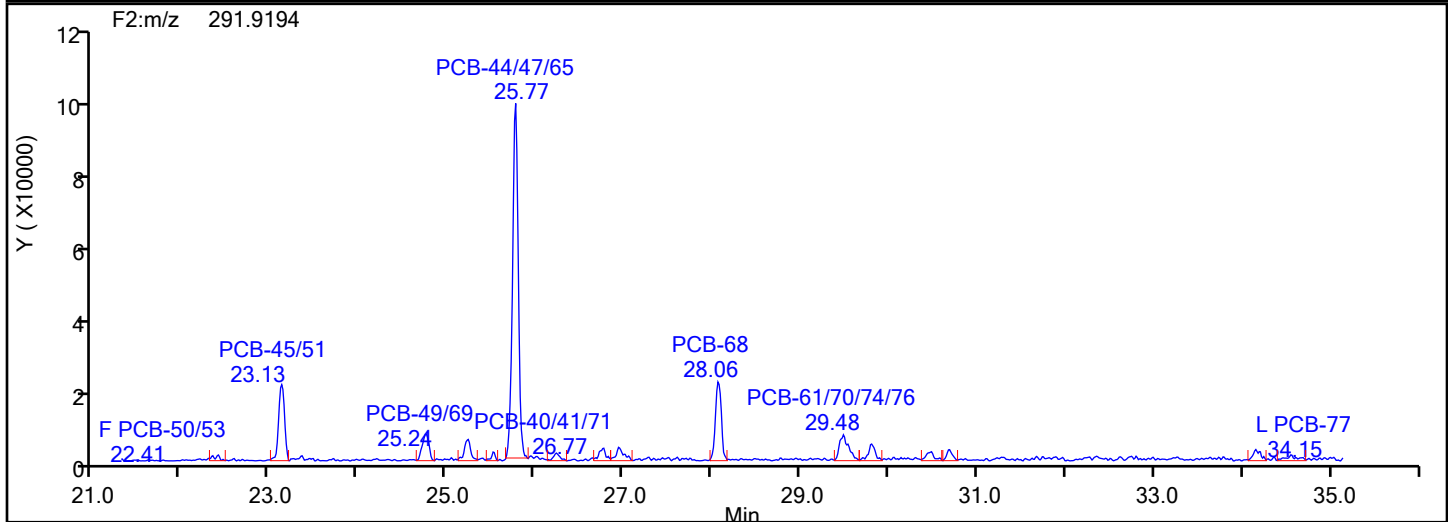
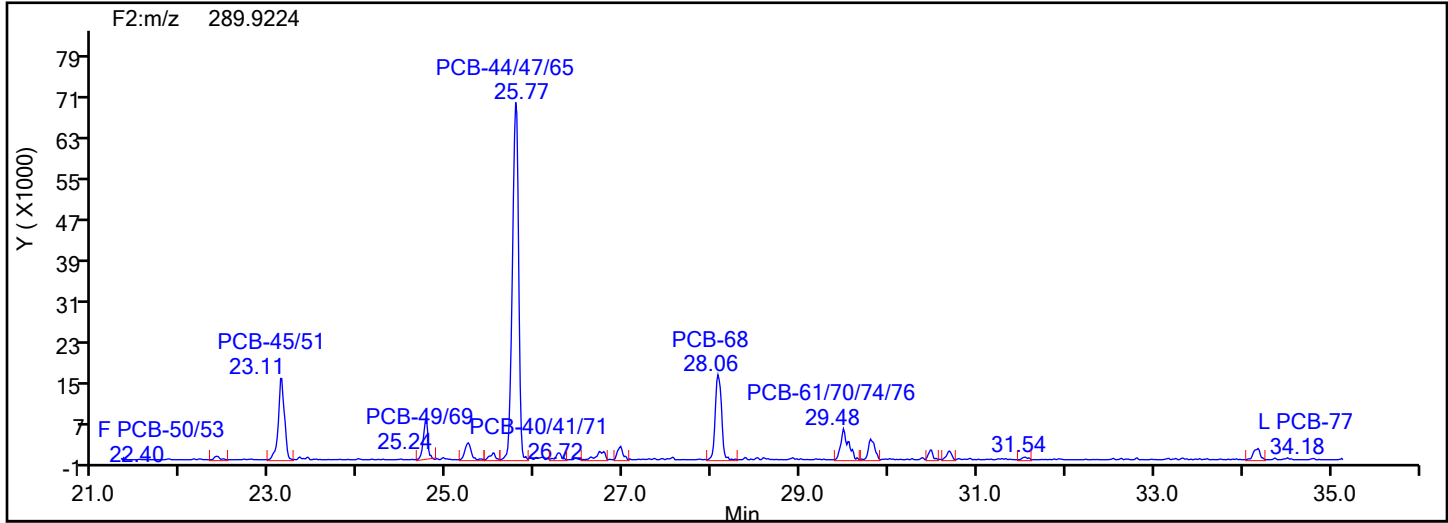


TePCB F2 Standards

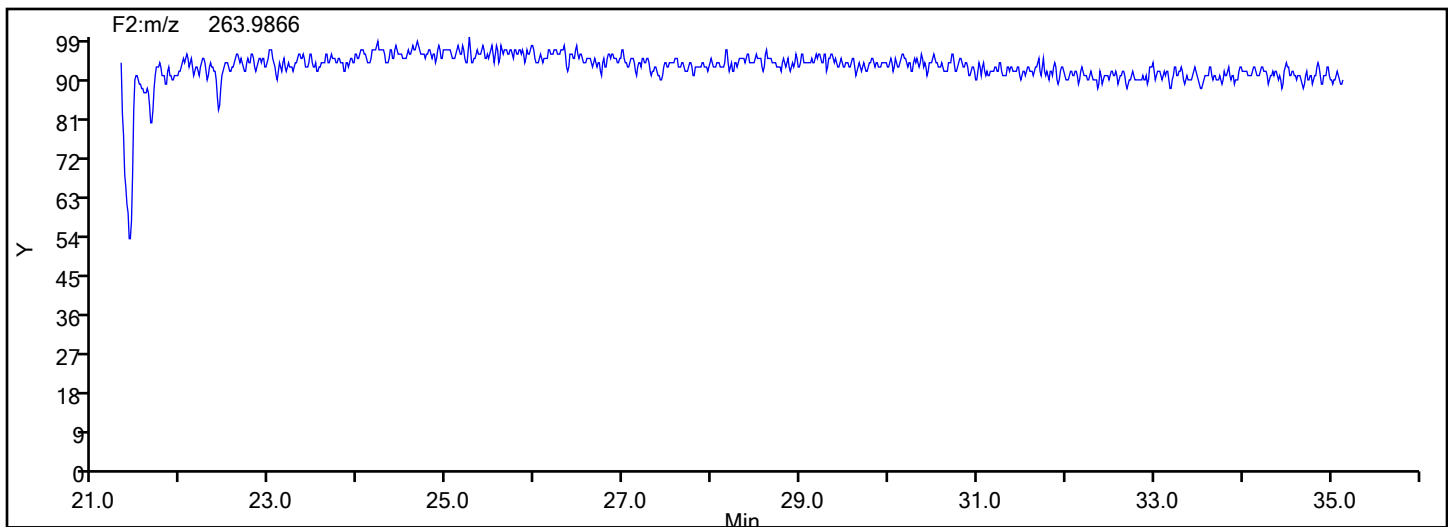


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

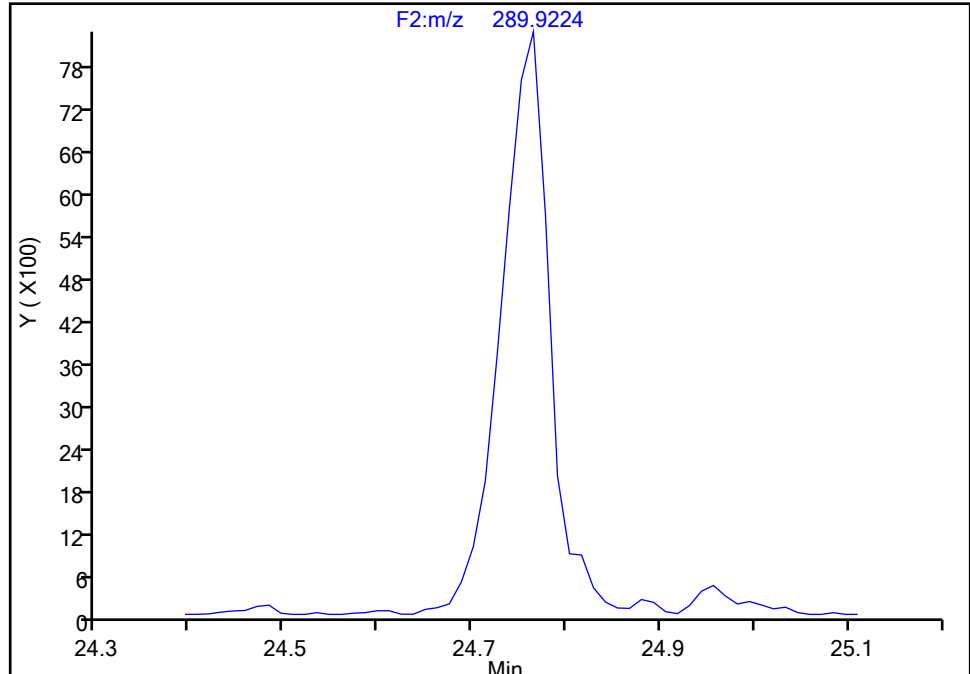
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Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 1

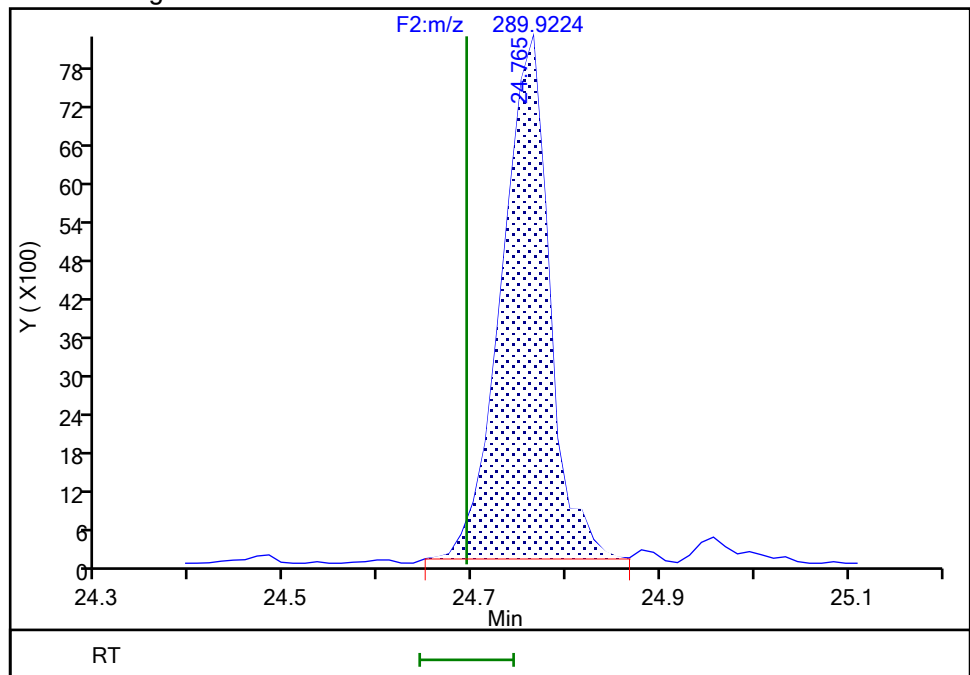
Not Detected
Expected RT: 24.69

Processing Integration Results



RT: 24.76
Area: 28667
Amount: 1.214281
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 17:32:35 -04:00:00 (UTC)

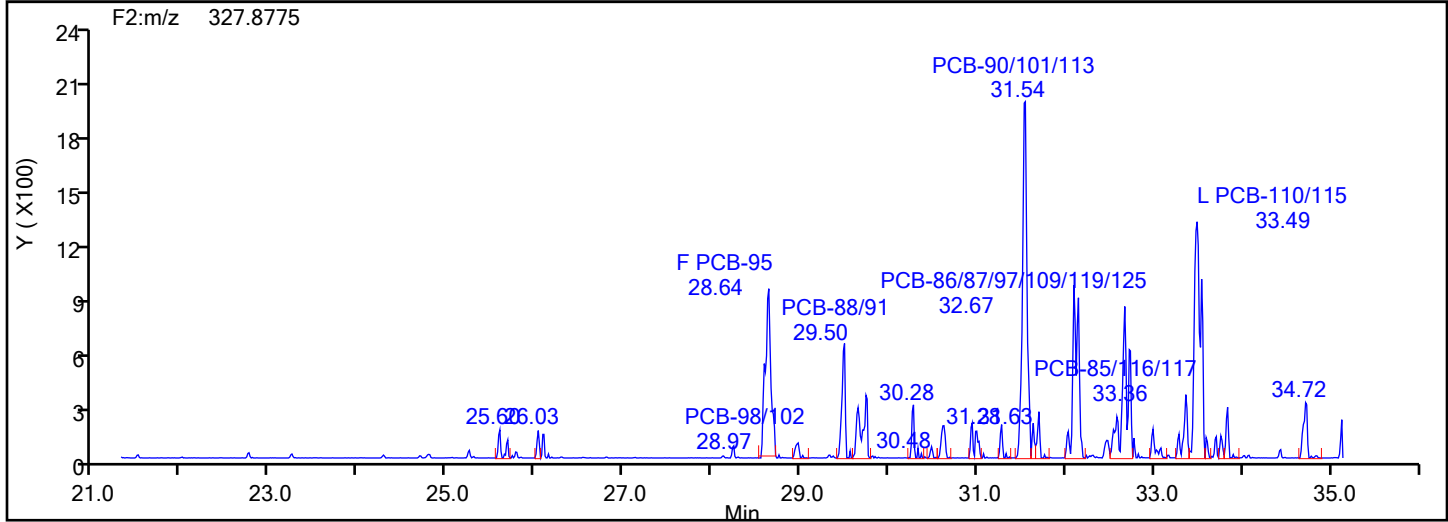
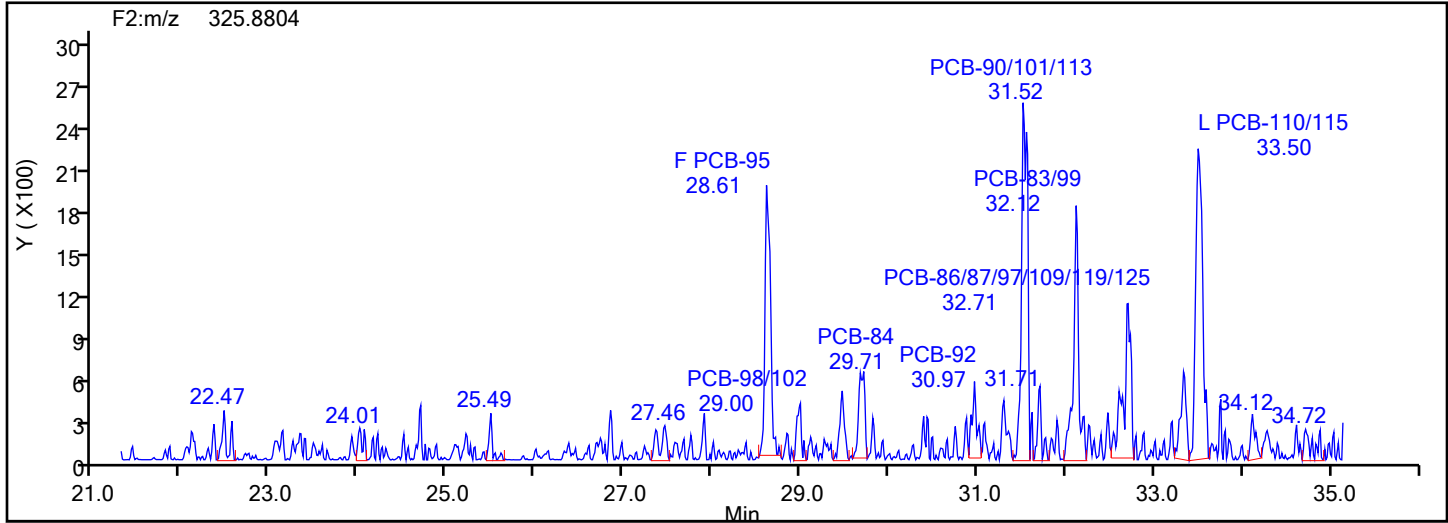
Audit Action: Assigned Compound ID

Audit Reason: Baseline

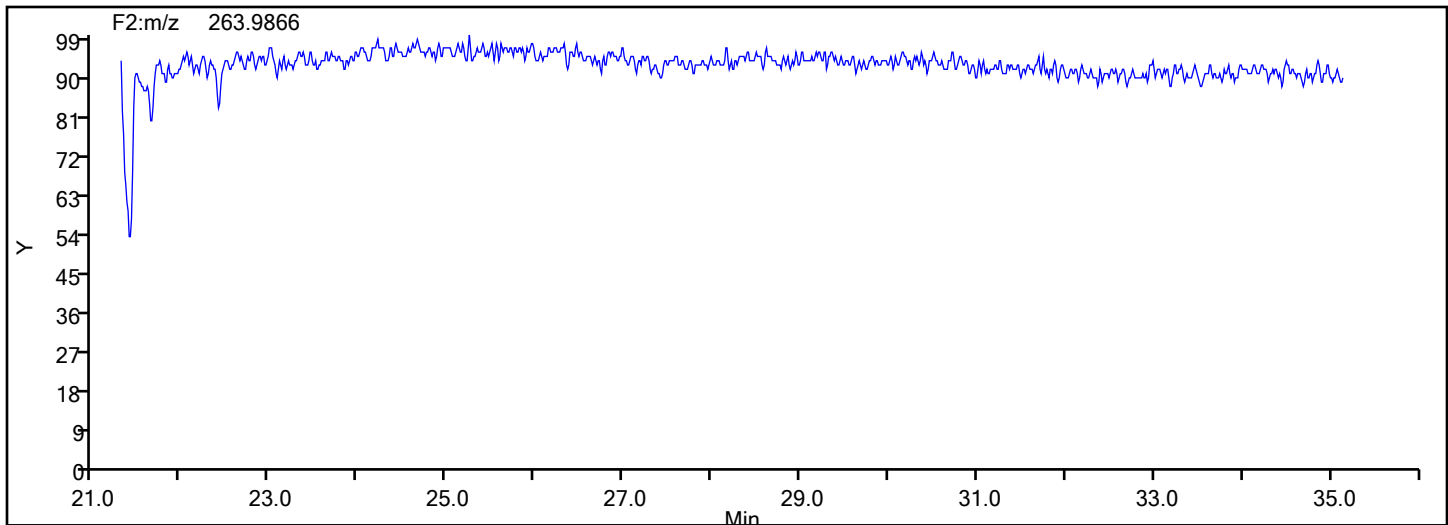
Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d

Injection Date: 11-Jun-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 1 COMBINED

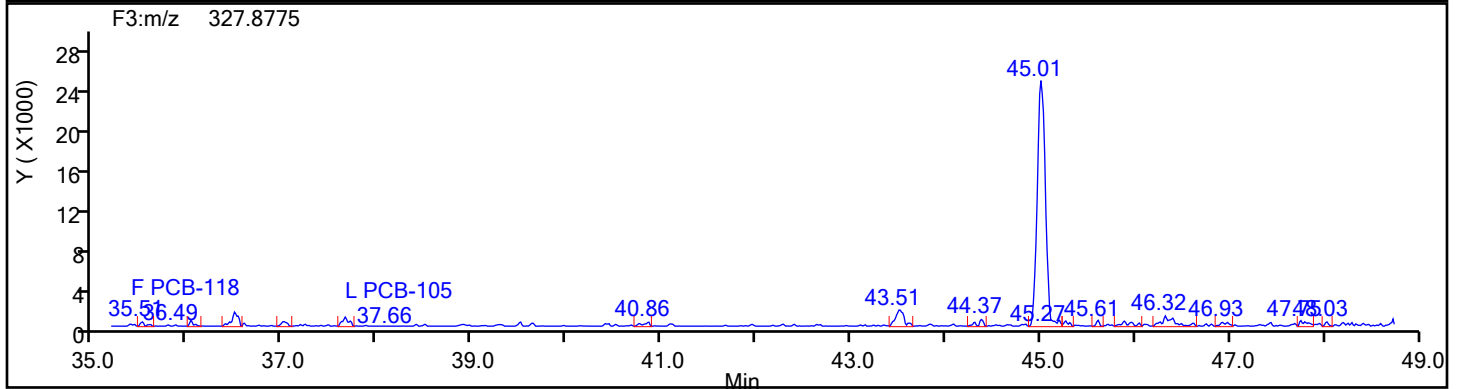
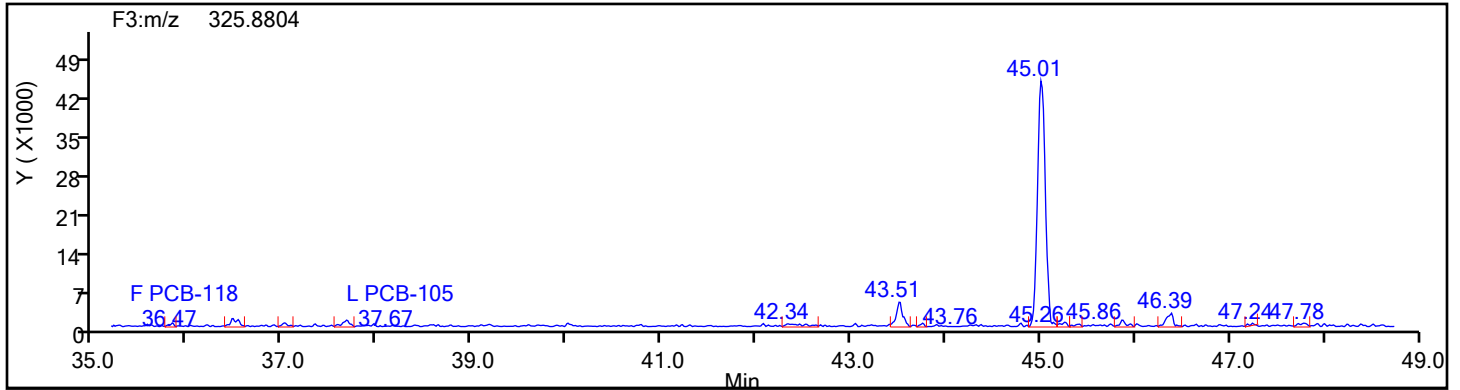
Worklist#: 87502

Sample Line#: 9

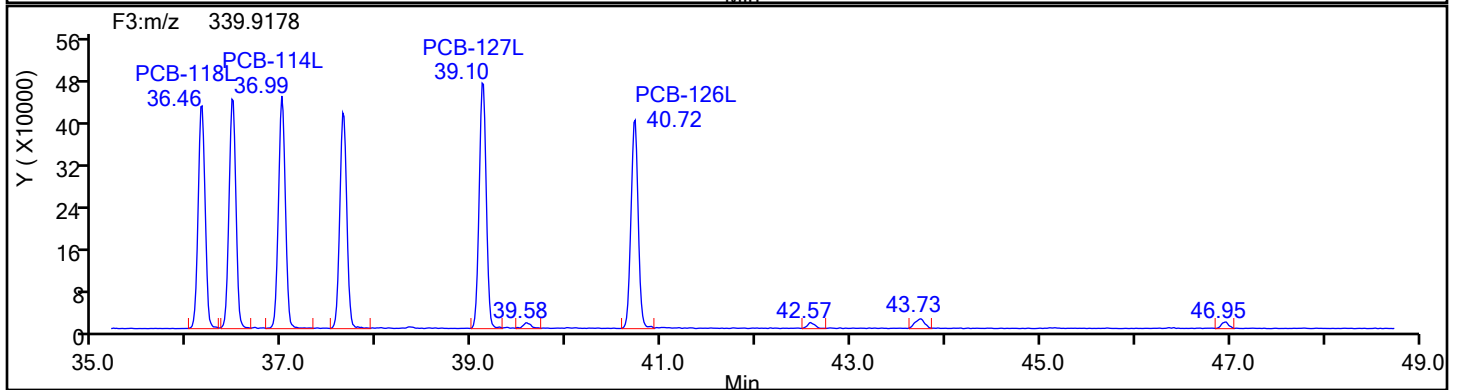
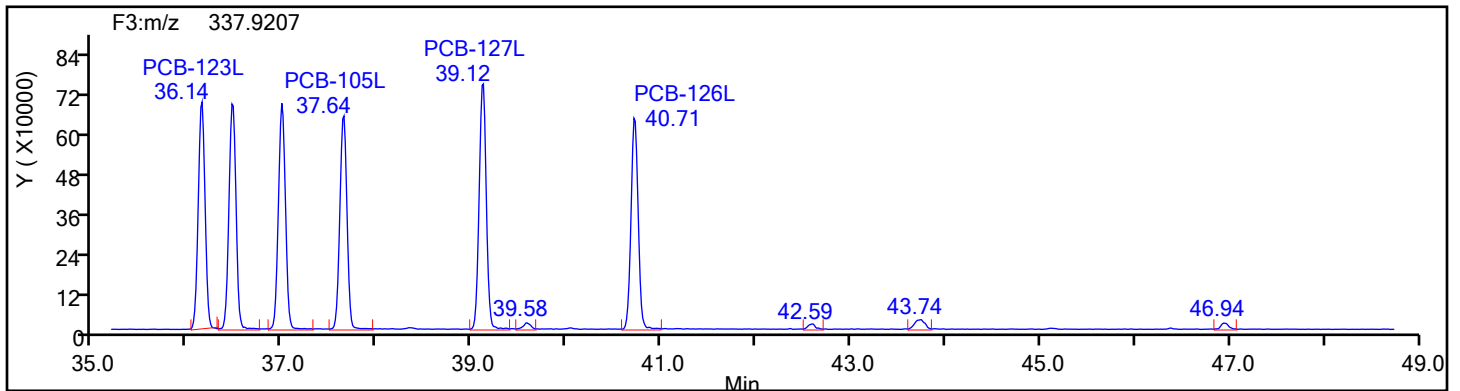
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3

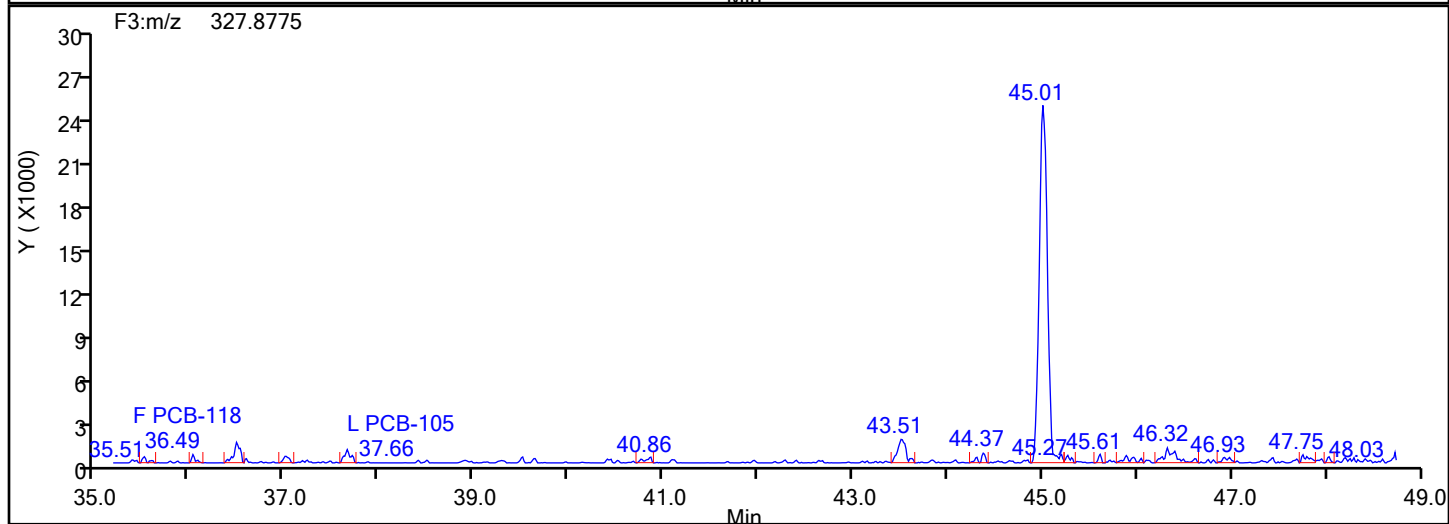
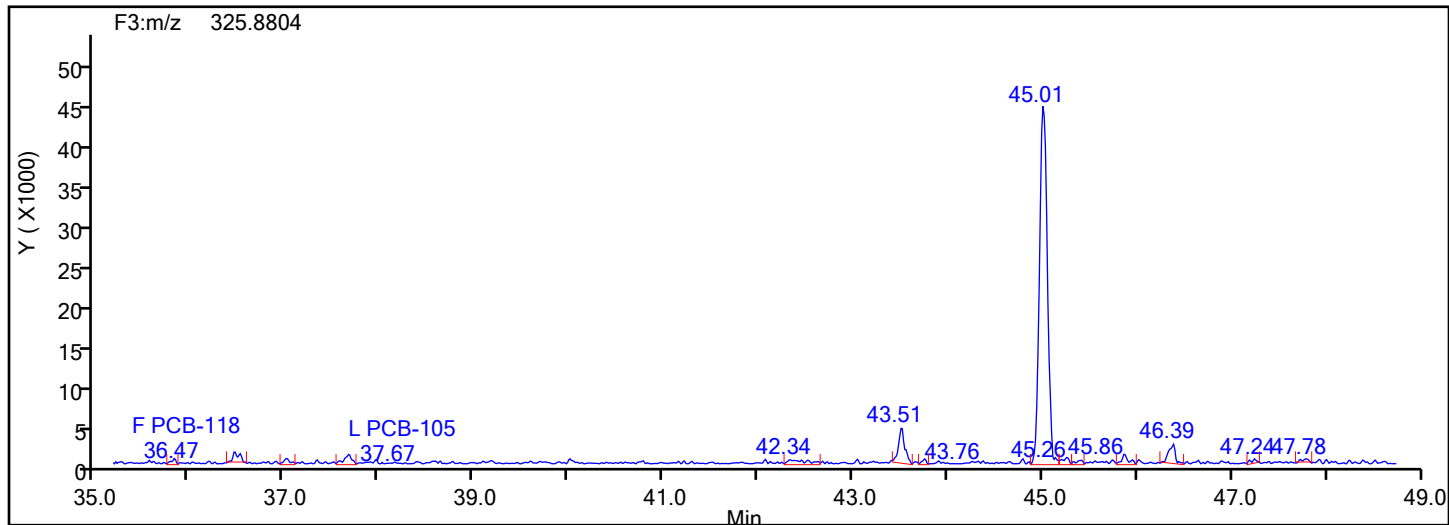


PePCB F3 Standards

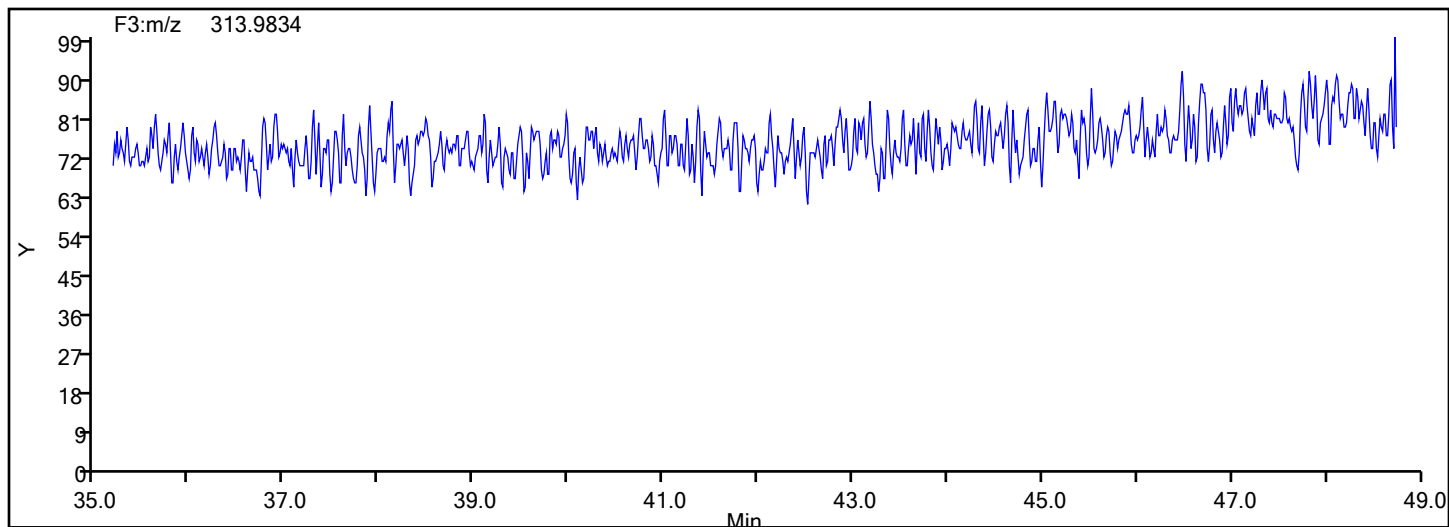


Eurofins Knoxville

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Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

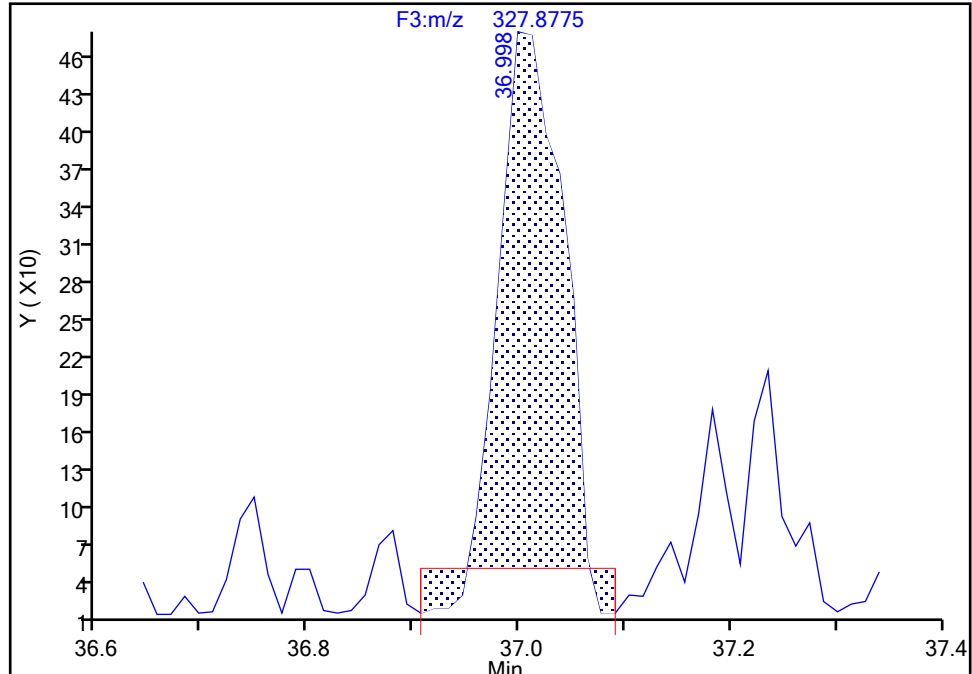
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Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-114, CAS: 74472-37-0

Signal: 2

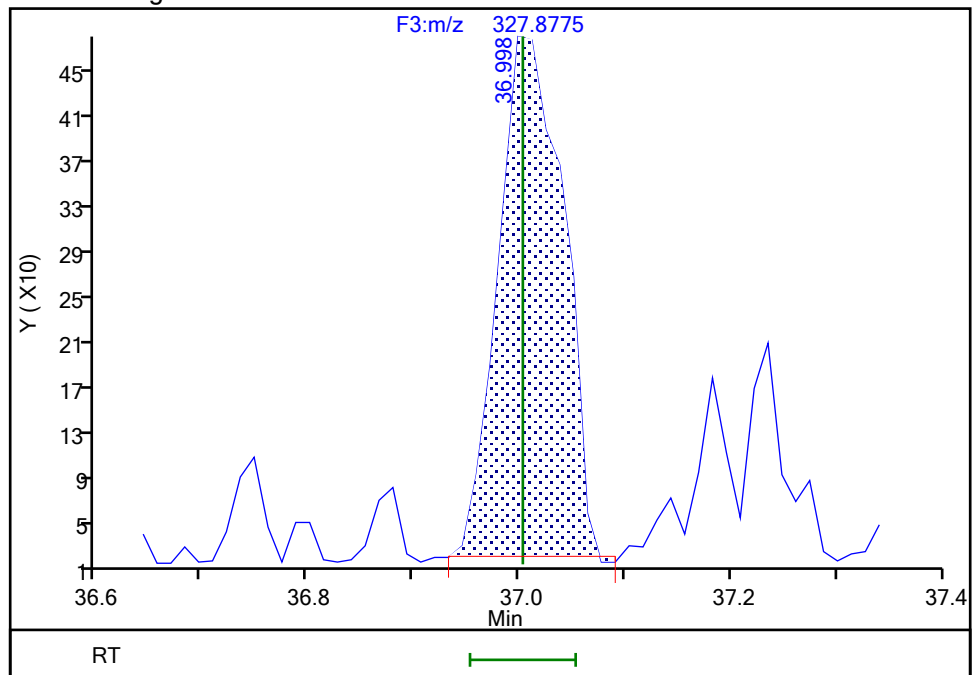
RT: 37.00
Area: 1580
Amount: 0.049947
Amount Units: pg/ul

Processing Integration Results



RT: 37.00
Area: 1895
Amount: 0.074634
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 17:37:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

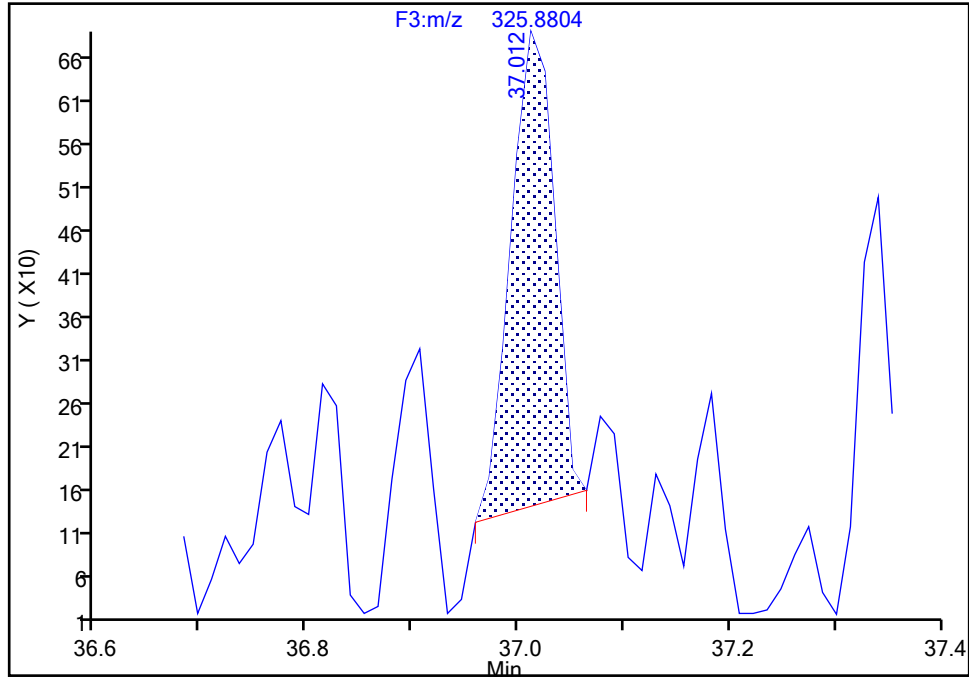
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Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-114, CAS: 74472-37-0

Signal: 1

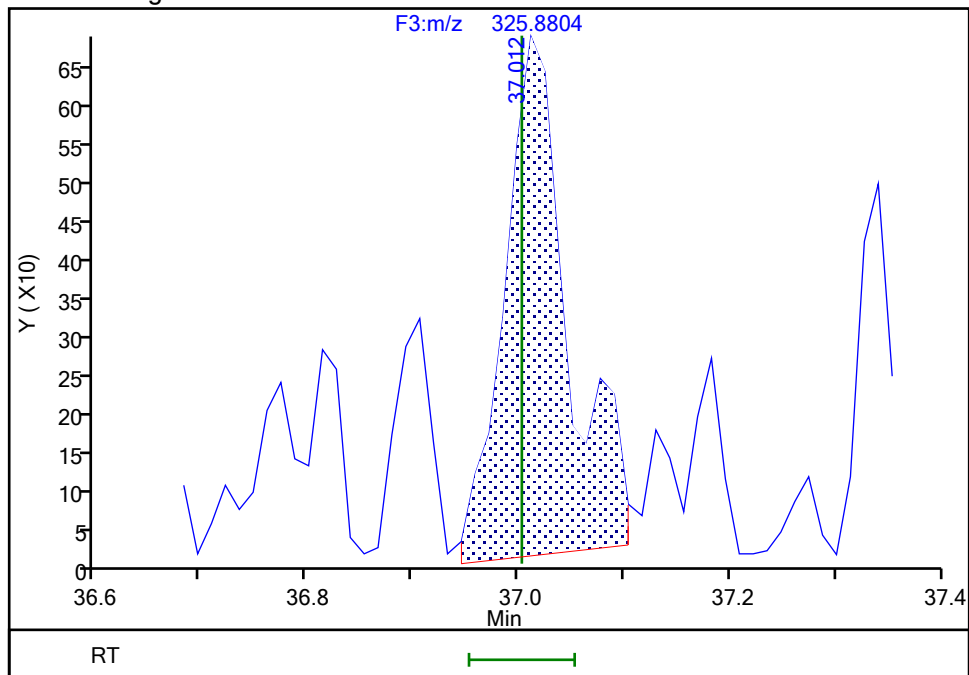
RT: 37.01
Area: 1552
Amount: 0.049947
Amount Units: pg/ul

Processing Integration Results



RT: 37.01
Area: 2785
Amount: 0.074634
Amount Units: pg/ul

Manual Integration Results



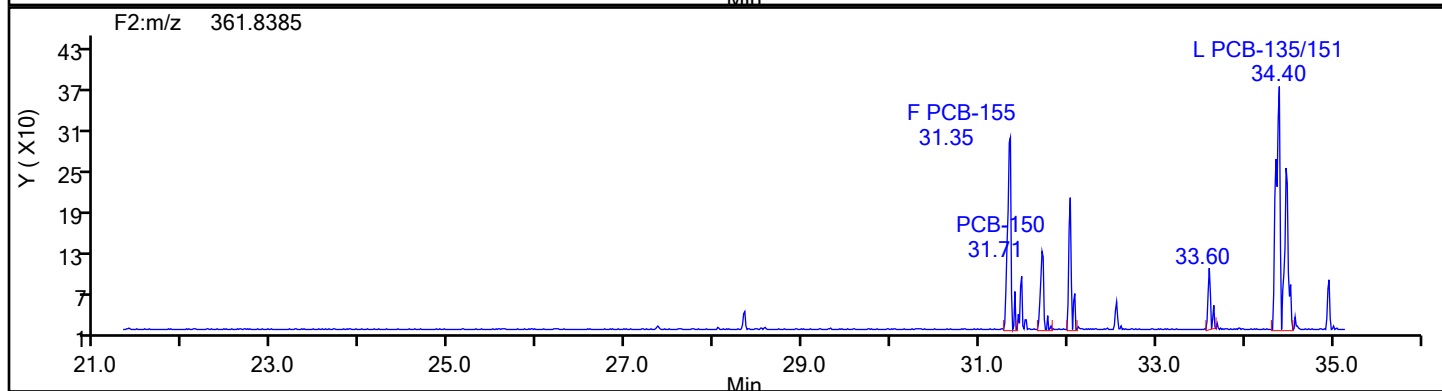
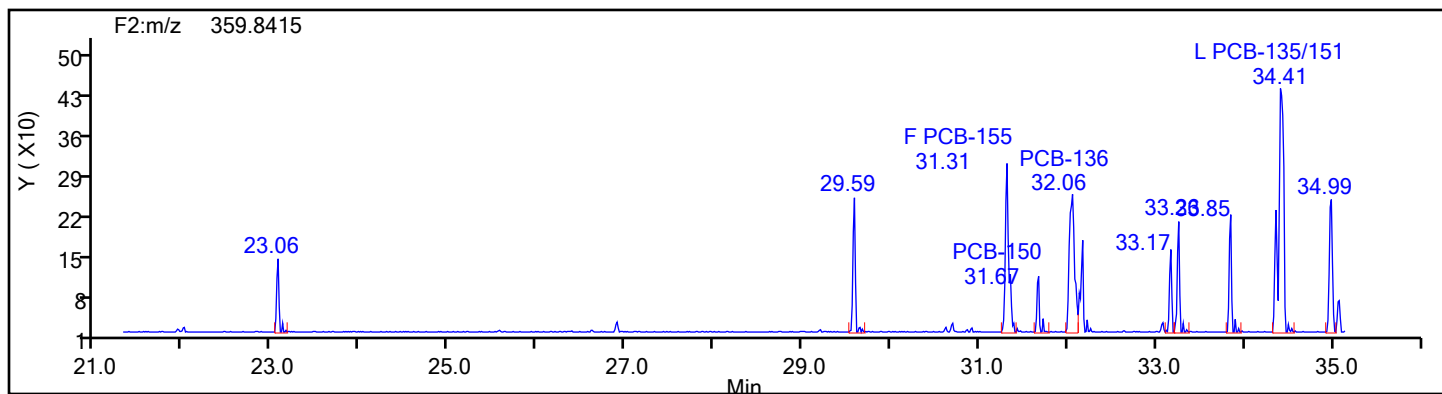
Reviewer: P0IK, 11-Jun-2024 17:38:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

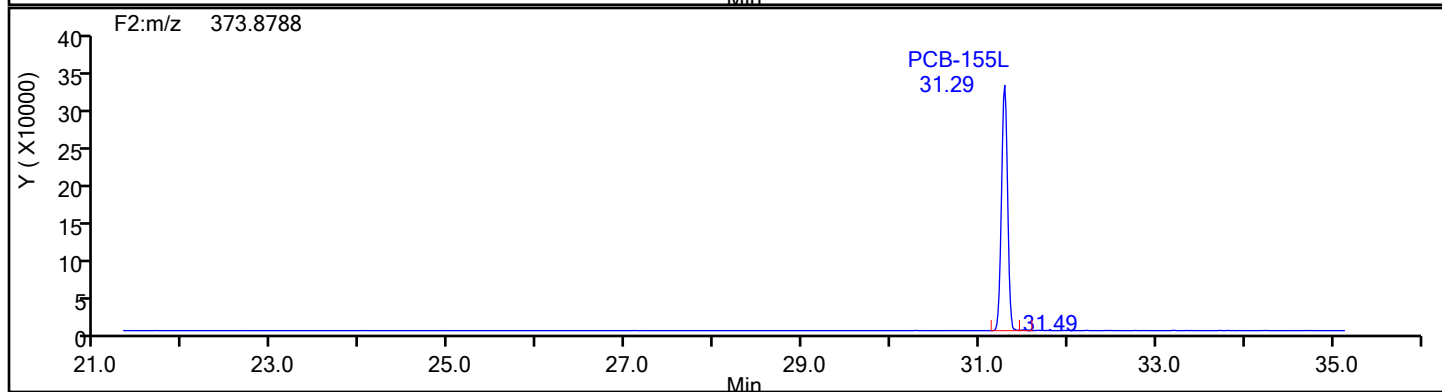
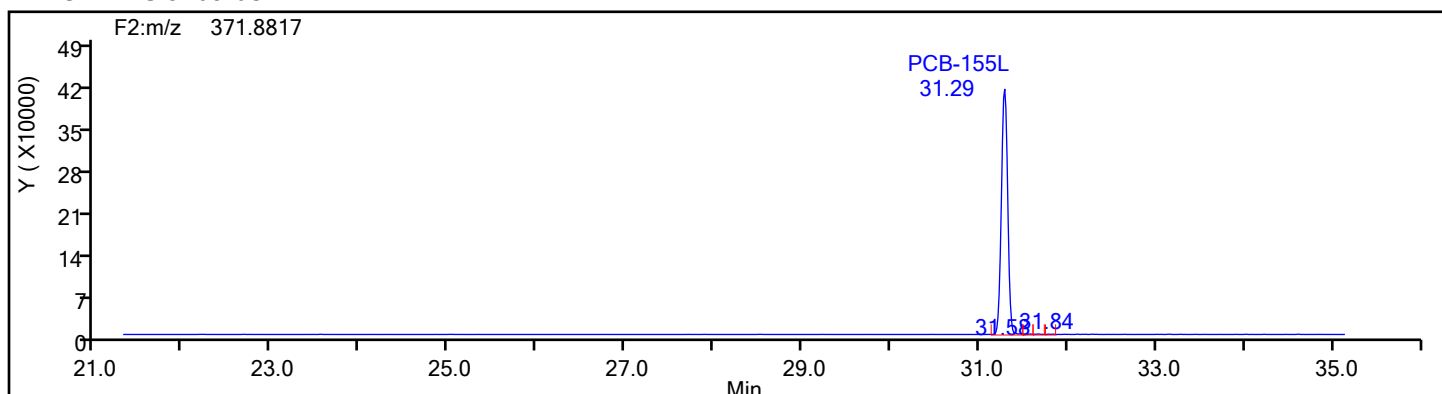
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

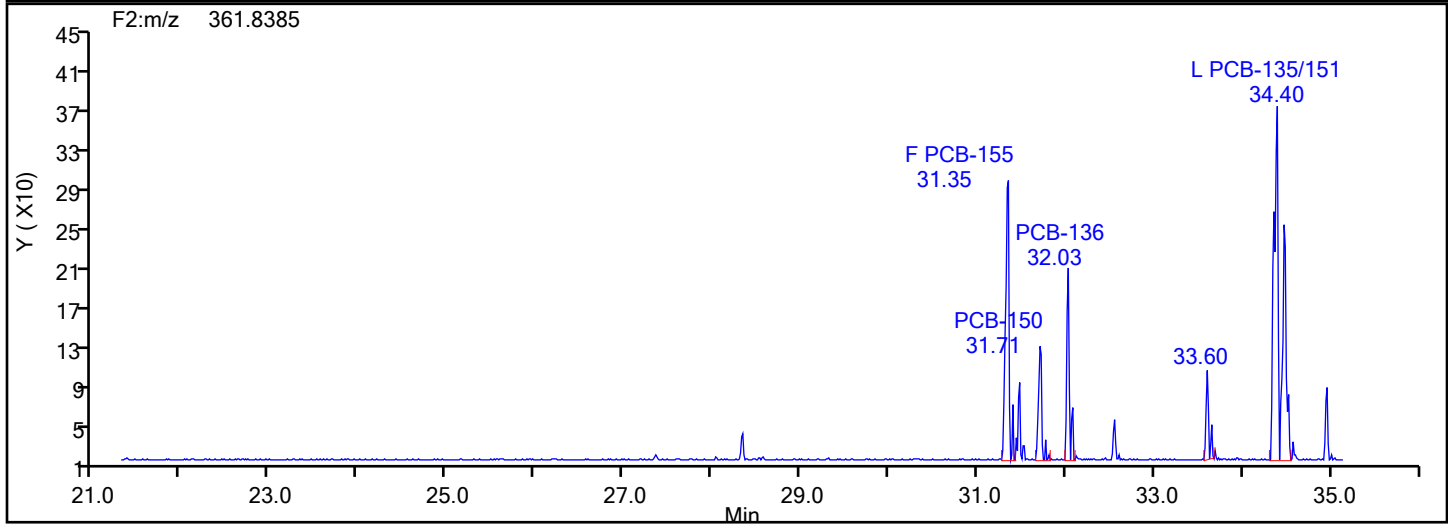
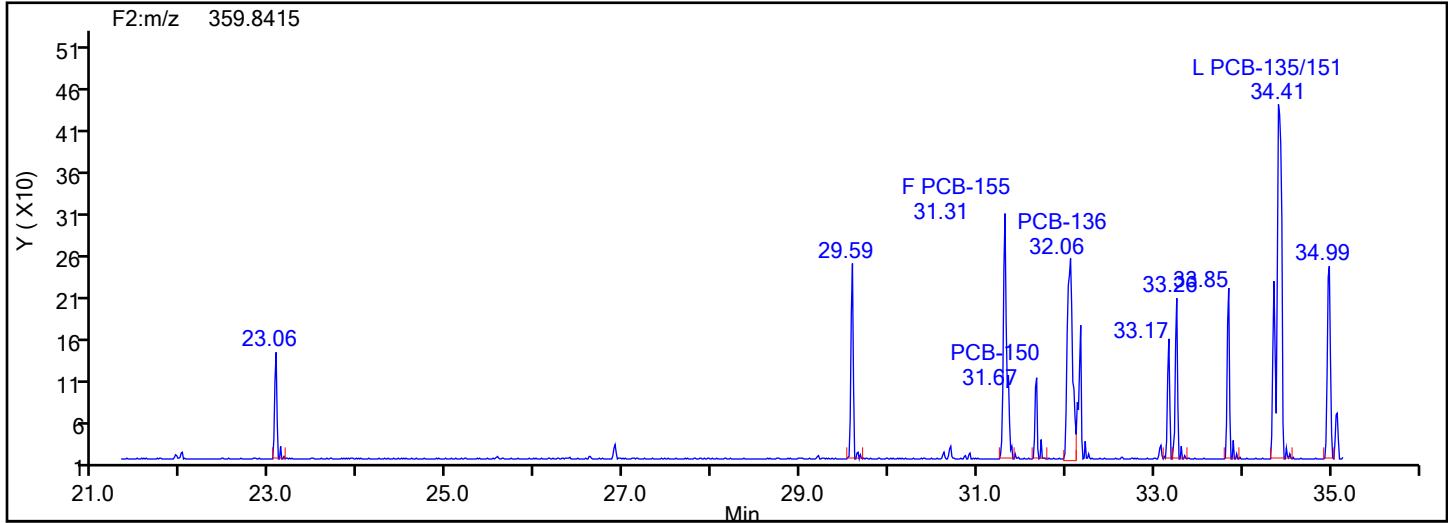


HxPCB F2 Standards

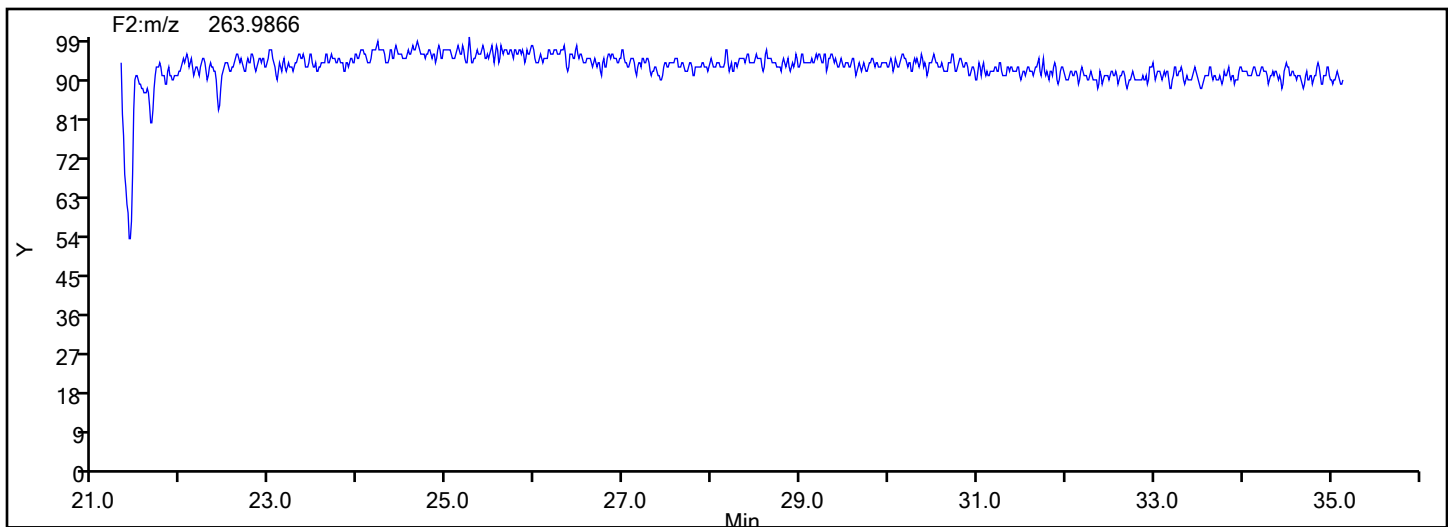


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



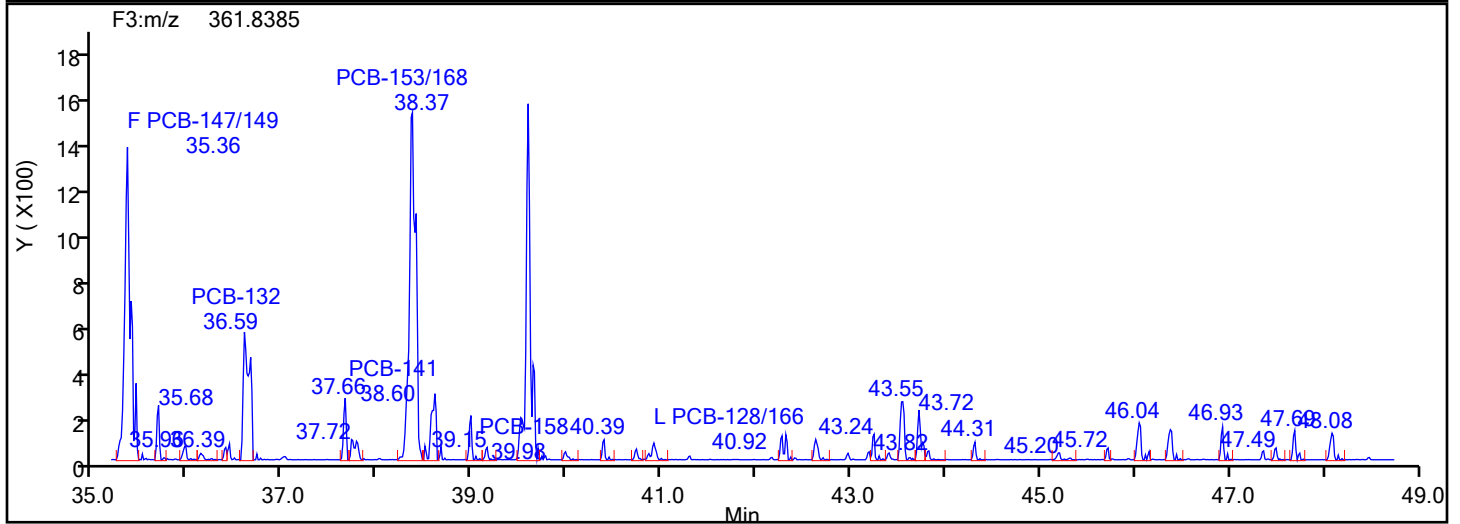
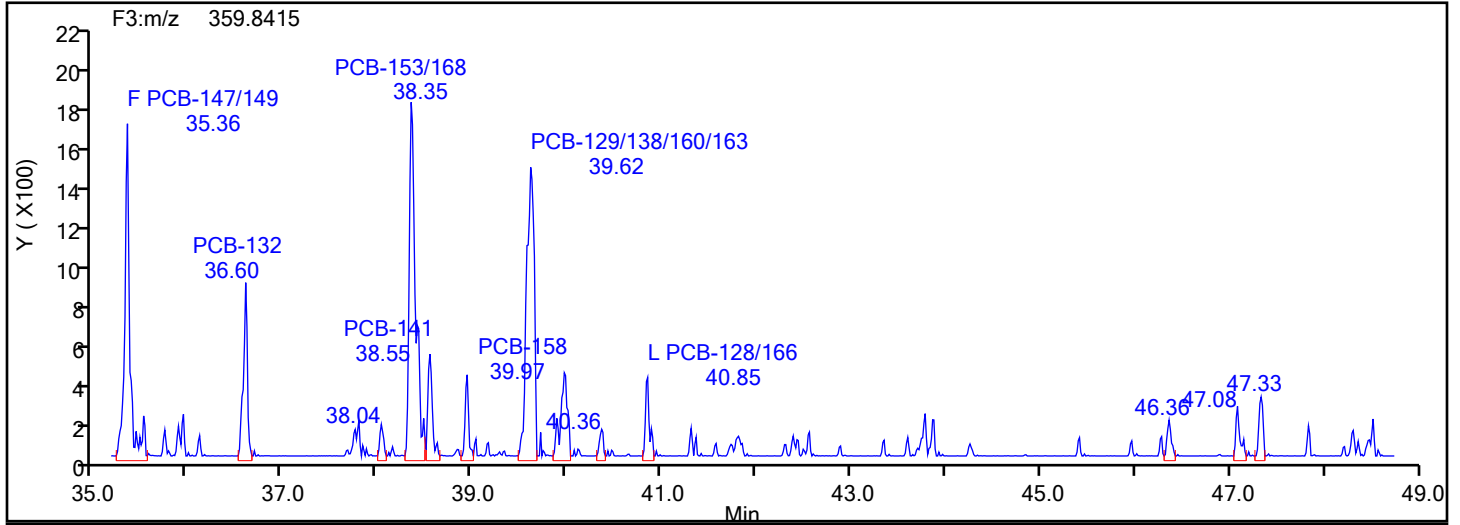
HxPCB F2 Lock Mass



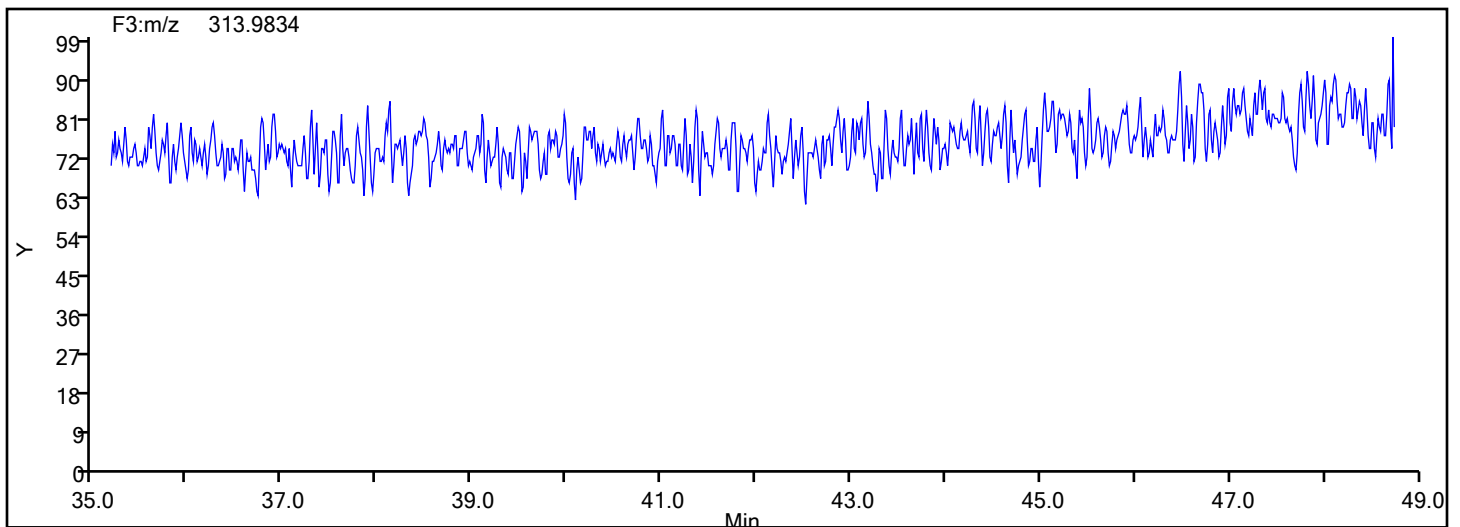
Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

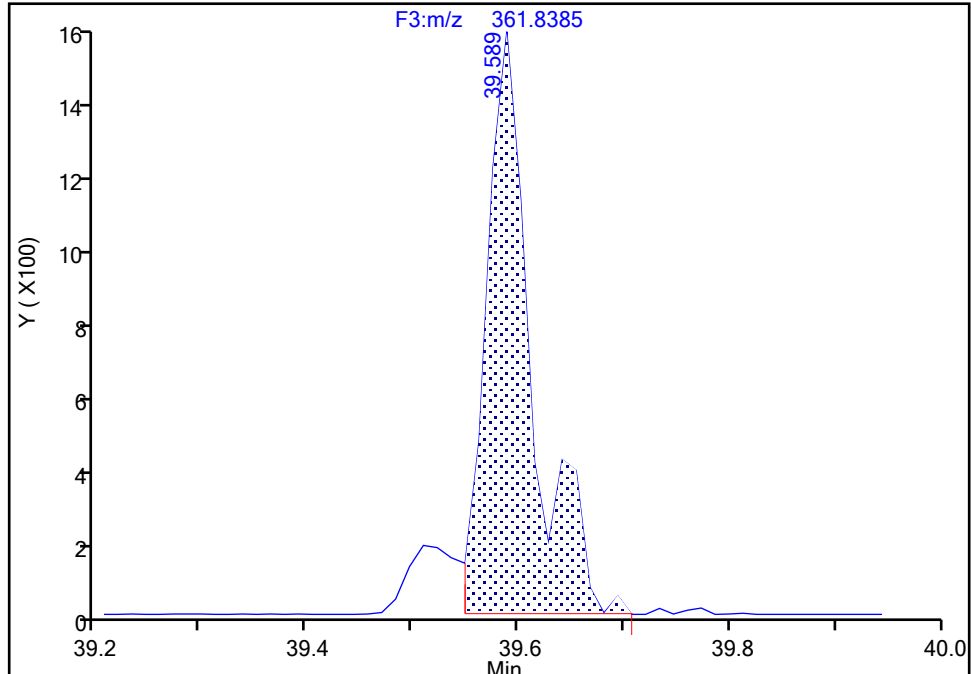
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Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

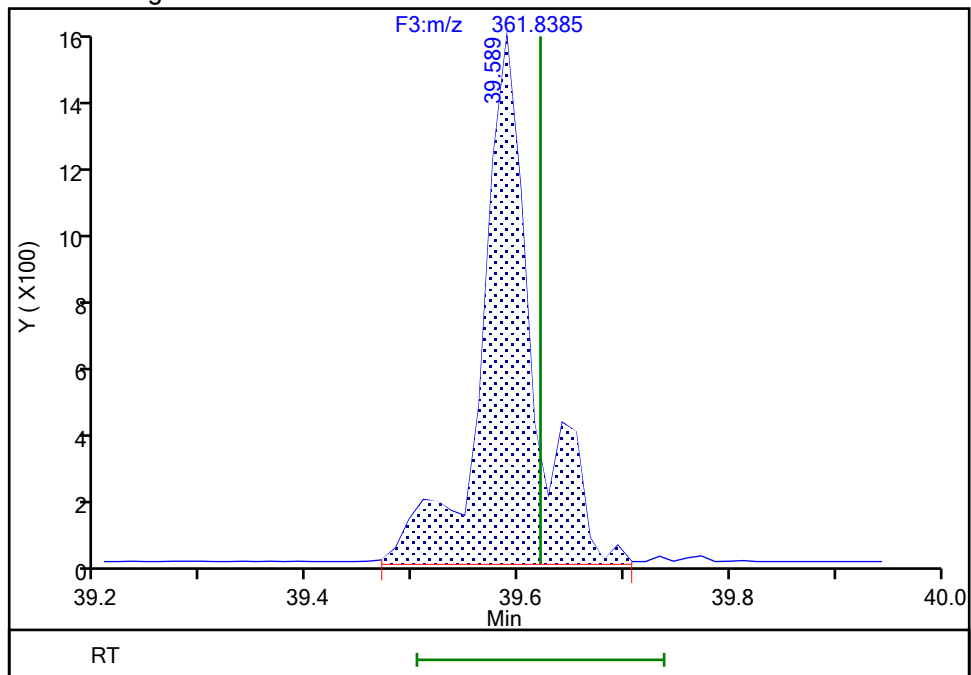
RT: 39.59
Area: 4677
Amount: 0.278364
Amount Units: pg/ul

Processing Integration Results



RT: 39.59
Area: 5345
Amount: 0.292922
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 12-Jun-2024 09:13:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d

Injection Date: 11-Jun-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 1 COMBINED

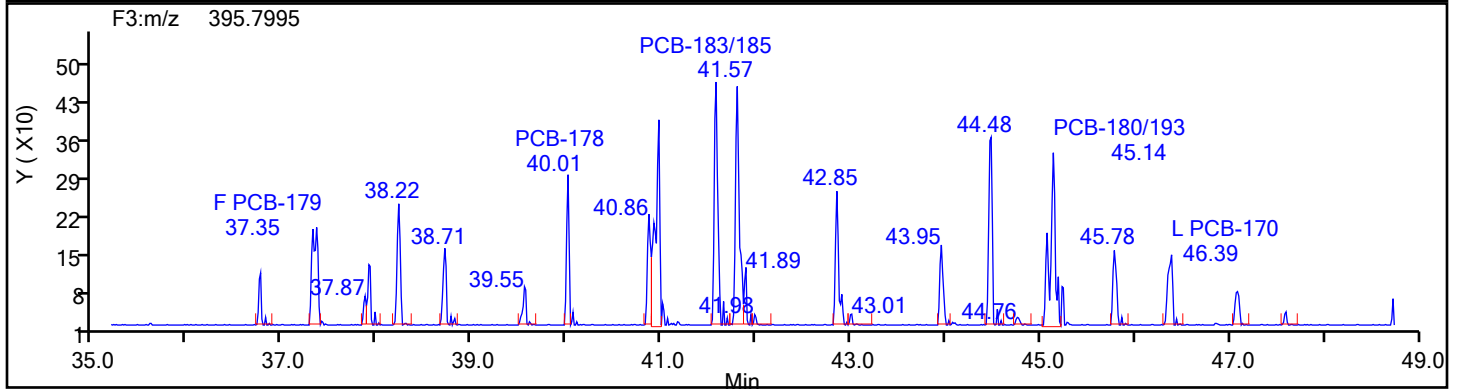
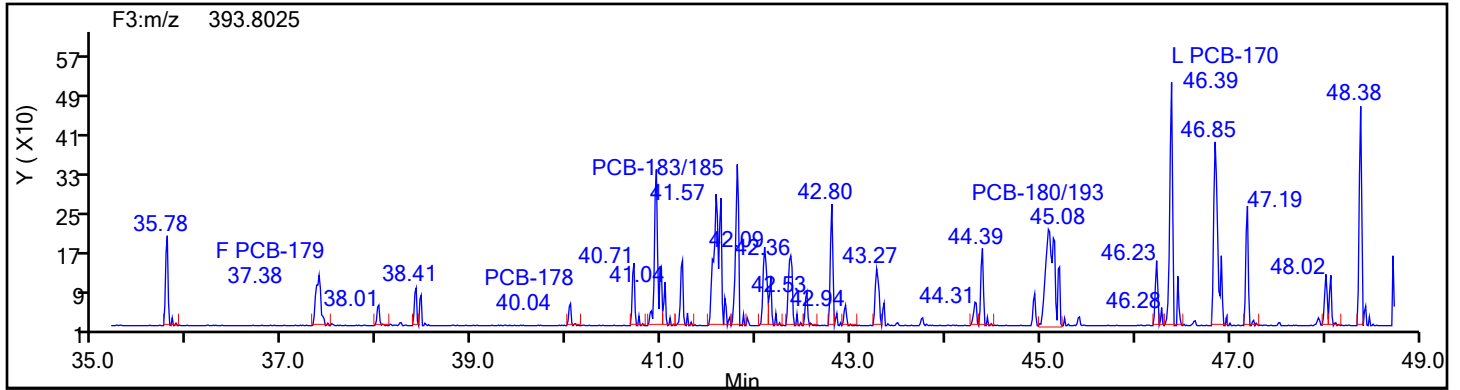
Worklist#: 87502

Sample Line#: 9

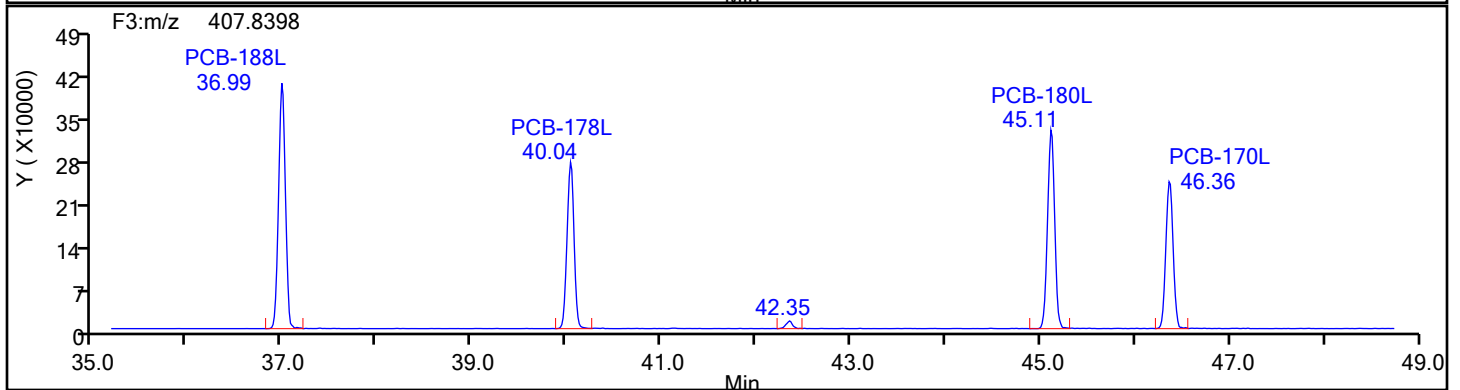
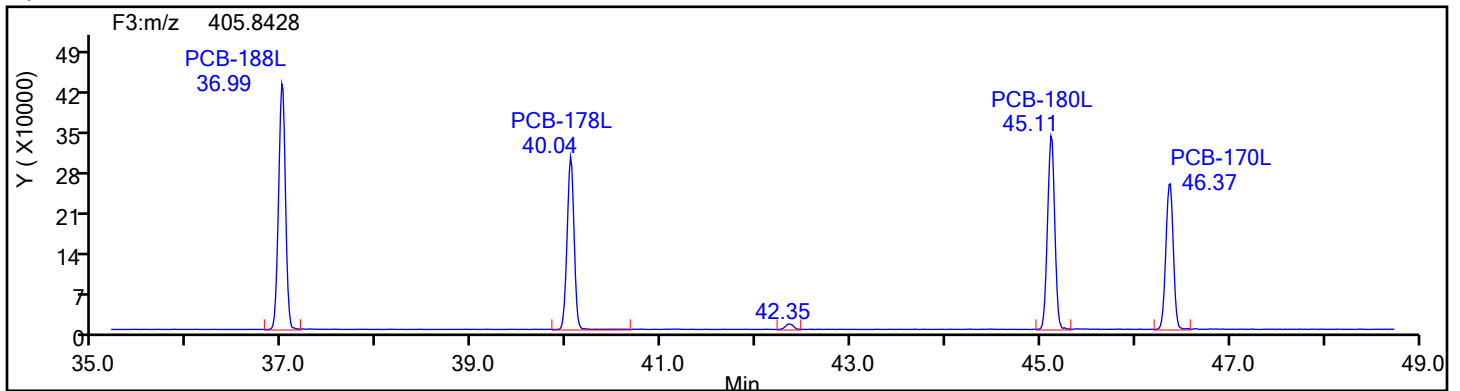
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3

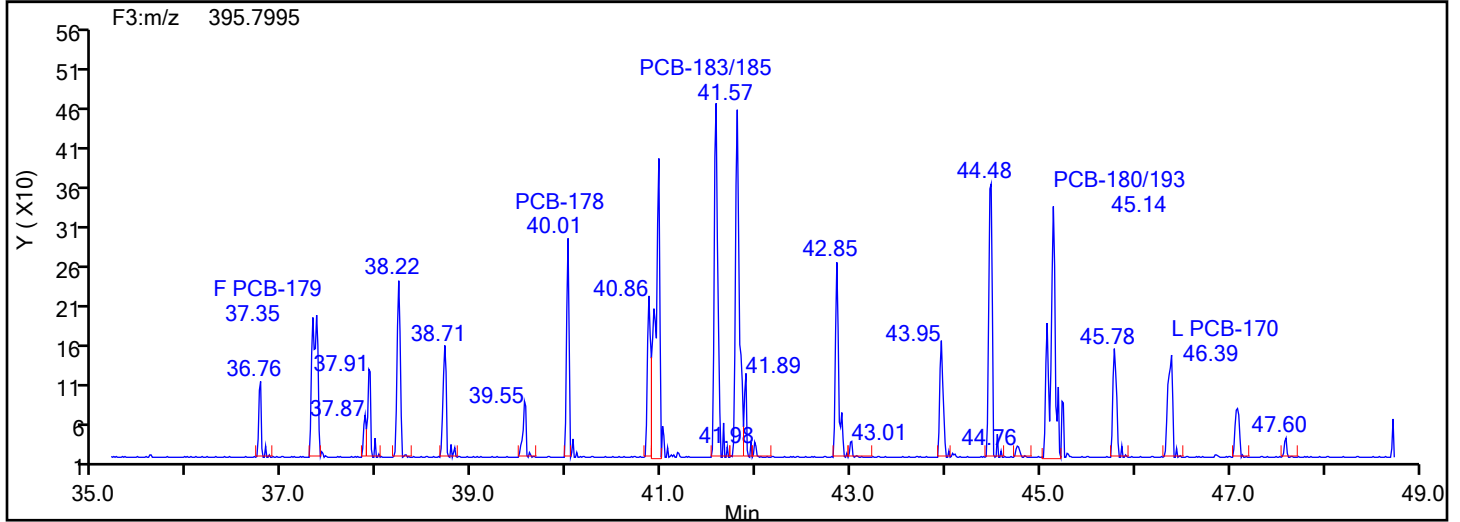
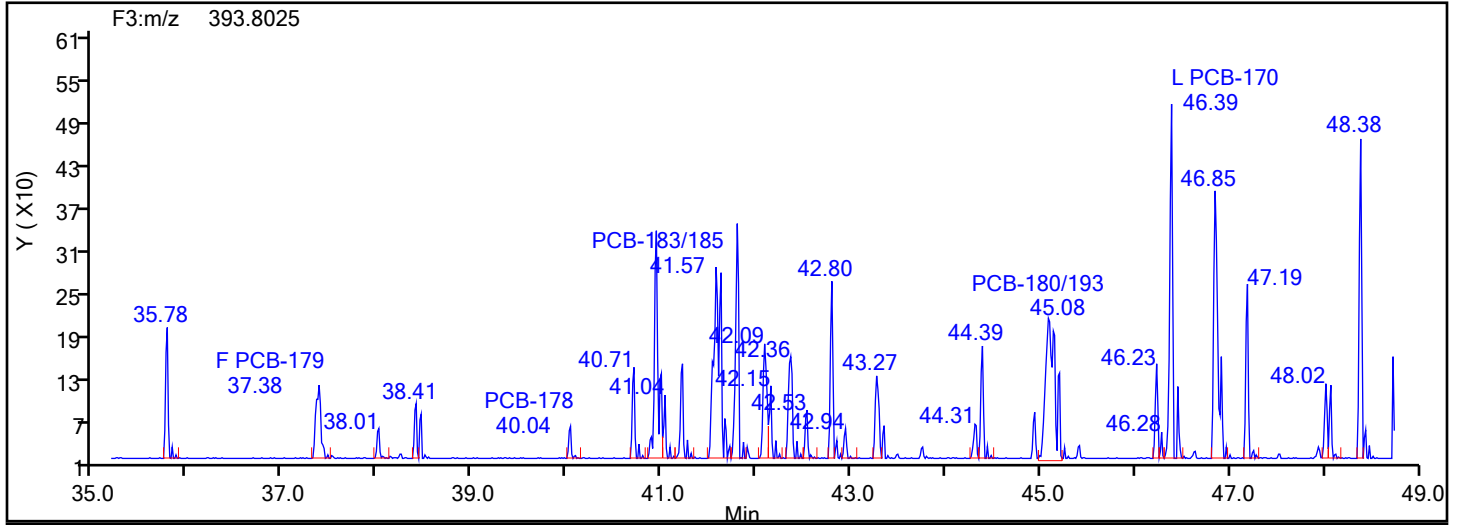


HpPCB F3 Standards

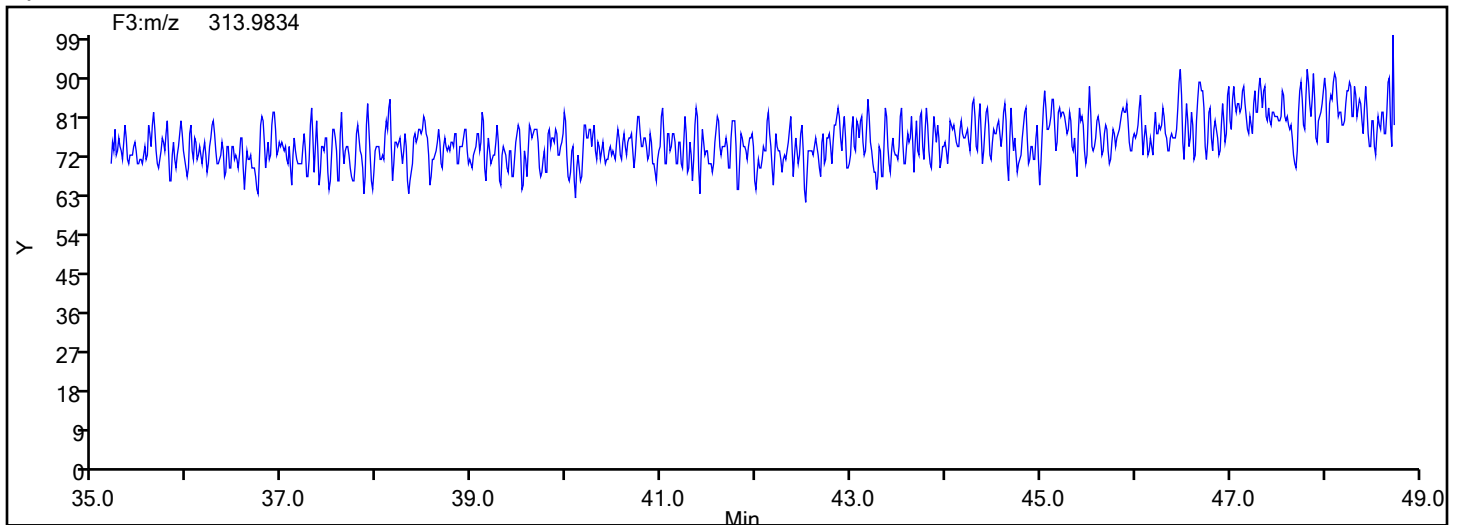


Eurofins Knoxville

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Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

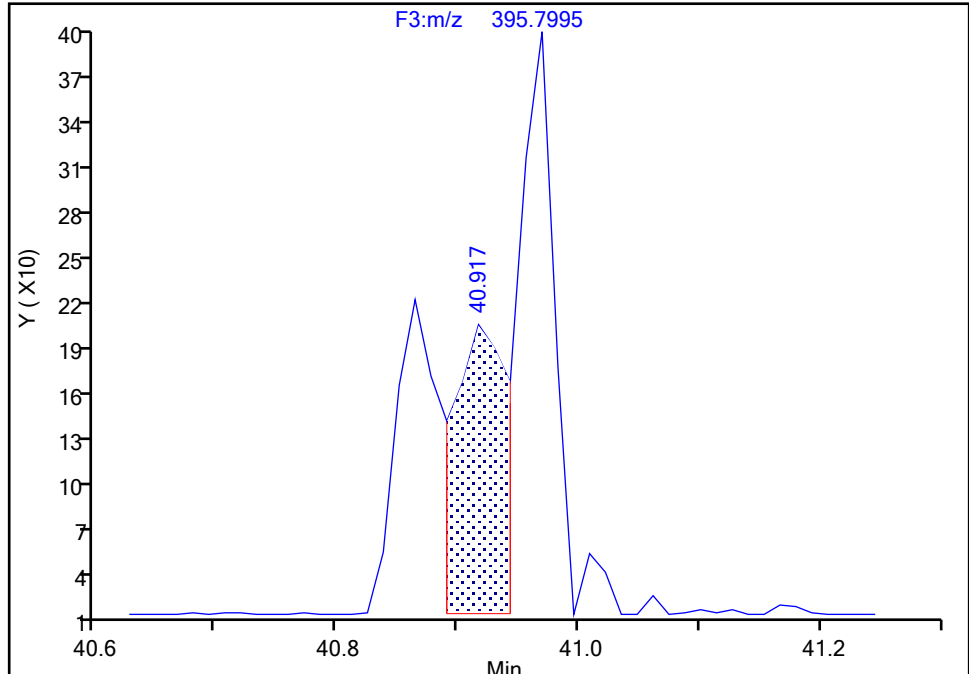
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Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-187, CAS: 52663-68-0

Signal: 2

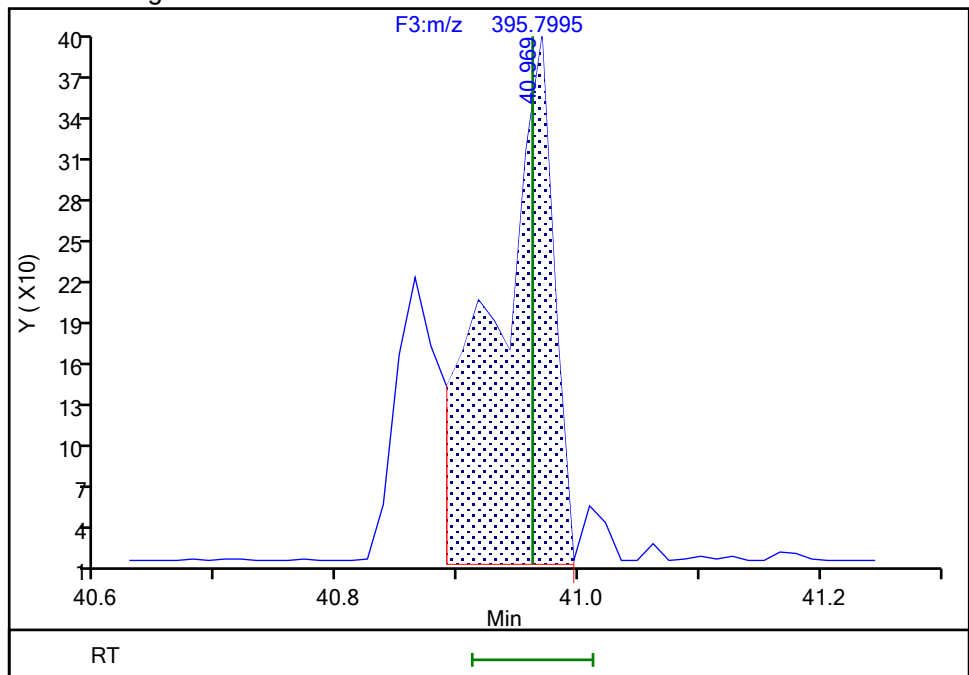
RT: 40.92
Area: 506
Amount: 0.037527
Amount Units: pg/ul

Processing Integration Results



RT: 40.97
Area: 1230
Amount: 0.056620
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 17:42:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

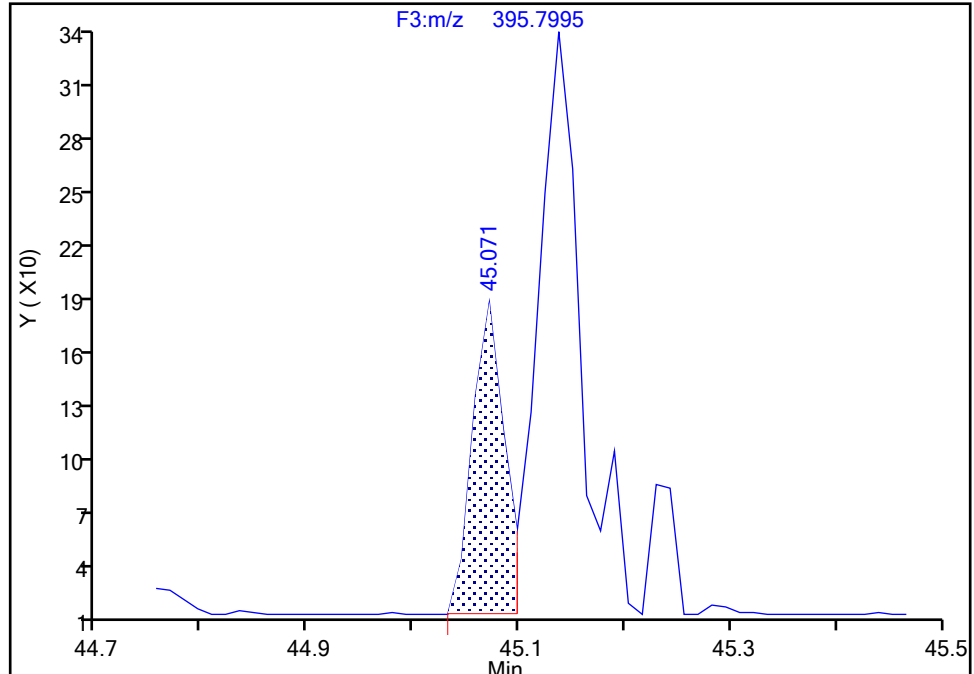
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Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-180/193, CAS: STL01824

Signal: 2

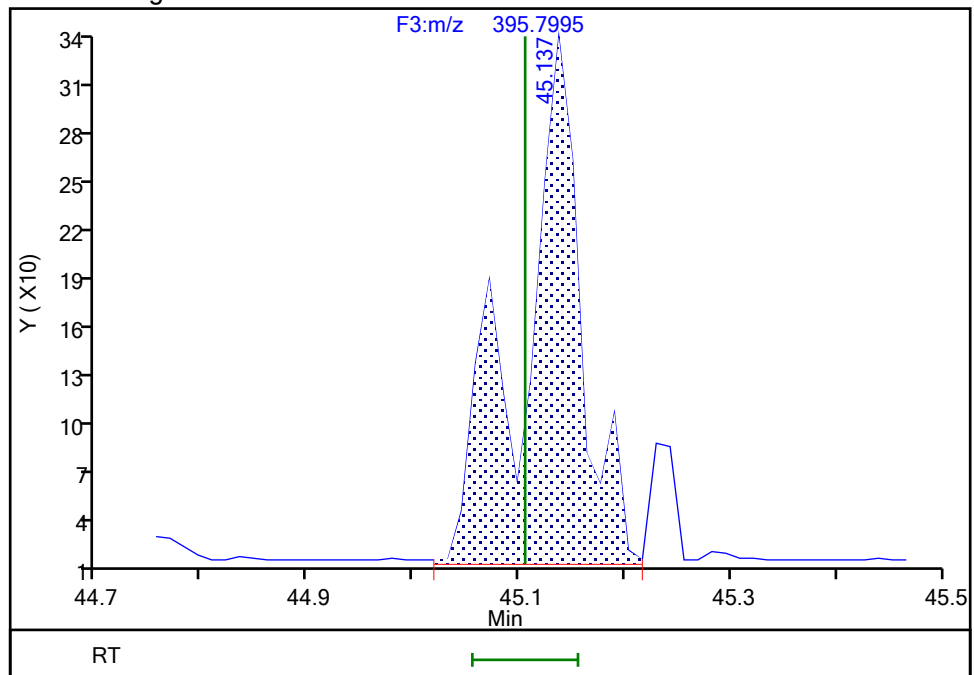
RT: 45.07
Area: 345
Amount: 0.046612
Amount Units: pg/ul

Processing Integration Results



RT: 45.14
Area: 1249
Amount: 0.066620
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 17:42:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

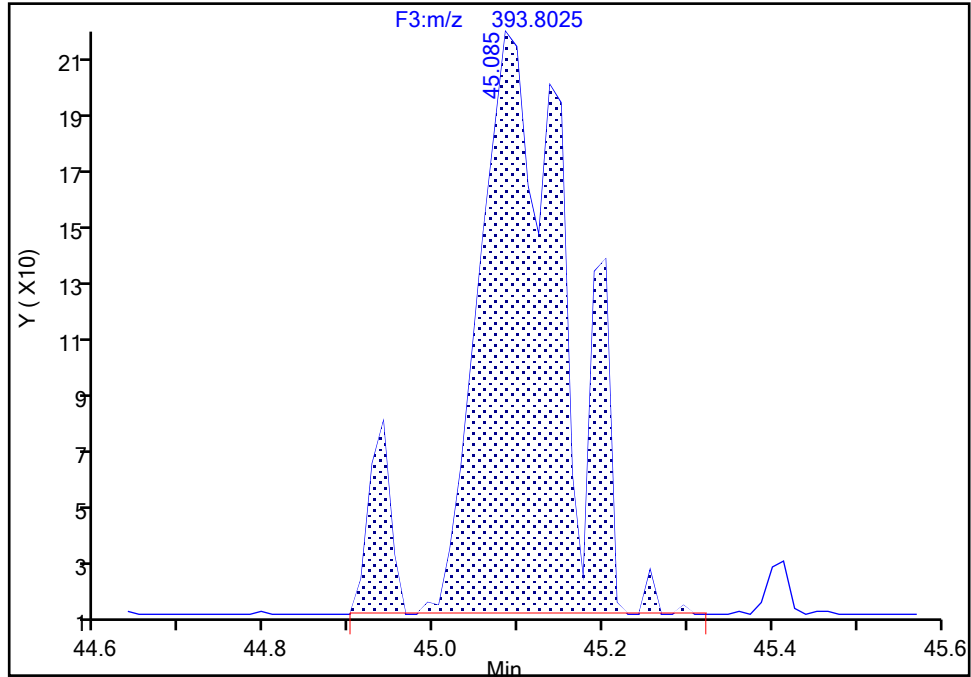
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Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-180/193, CAS: STL01824

Signal: 1

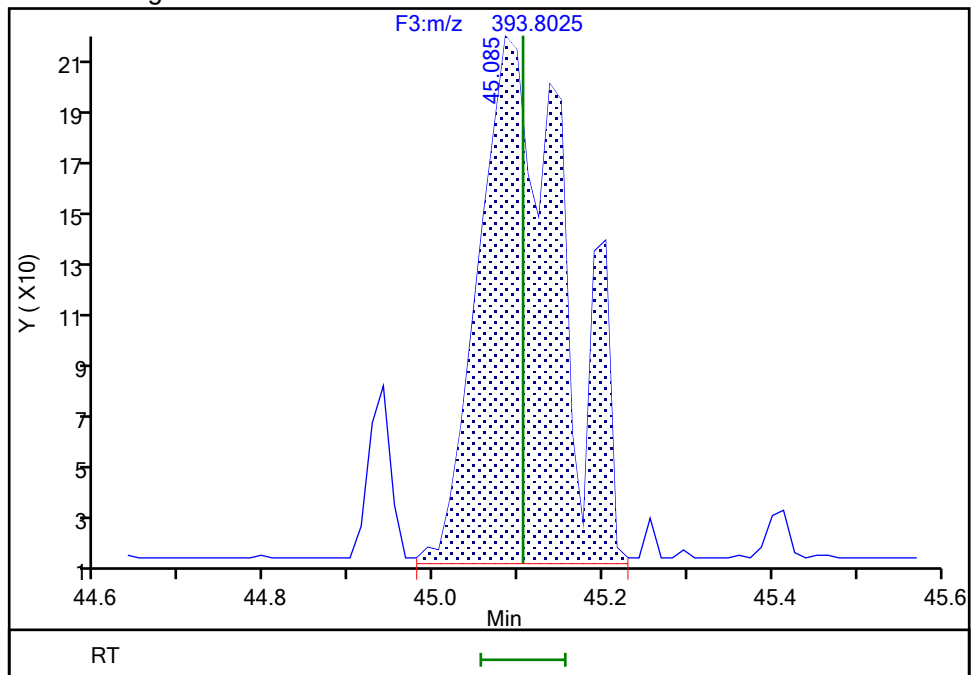
RT: 45.08
Area: 1528
Amount: 0.046612
Amount Units: pg/ul

Processing Integration Results



RT: 45.08
Area: 1428
Amount: 0.066620
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 17:42:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d

Injection Date: 11-Jun-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 1 COMBINED

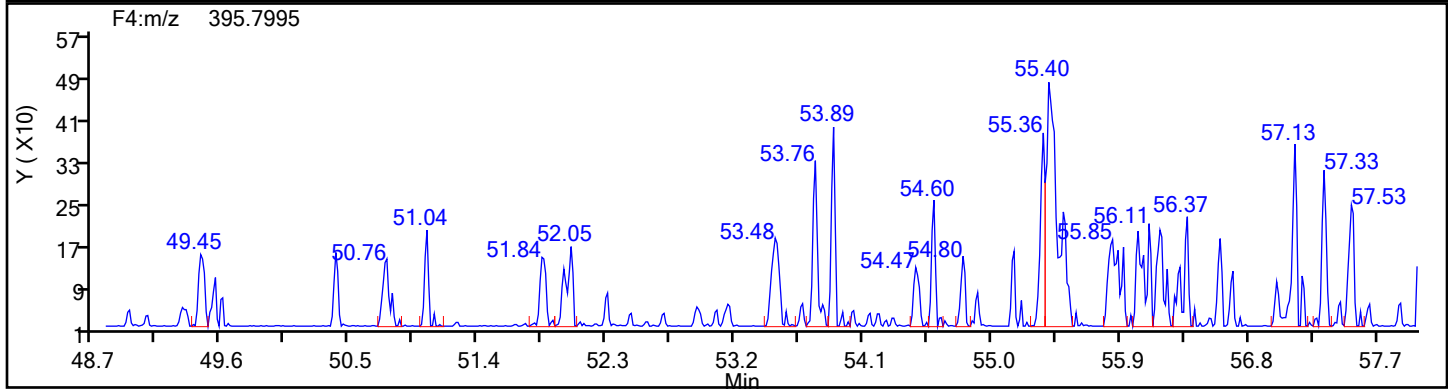
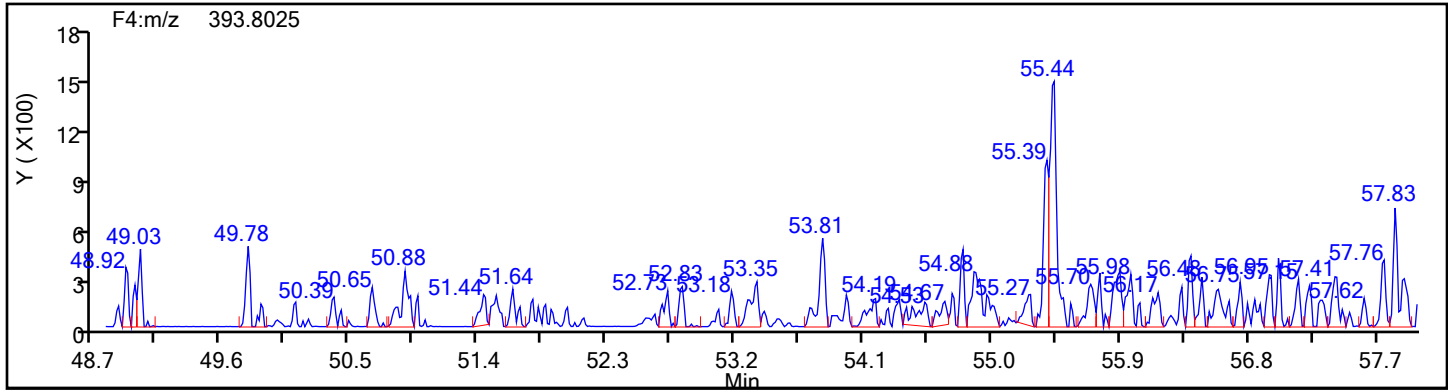
Worklist#: 87502

Sample Line#: 9

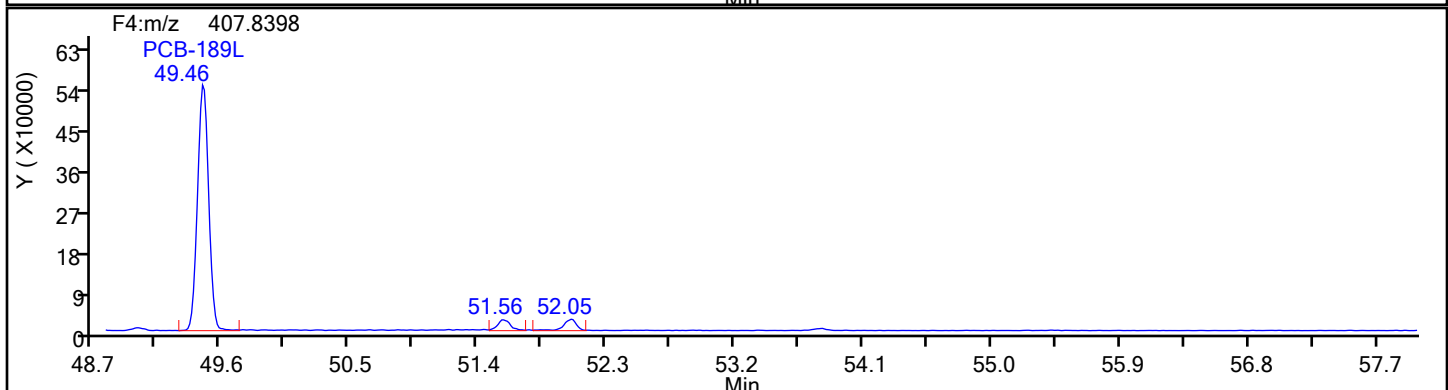
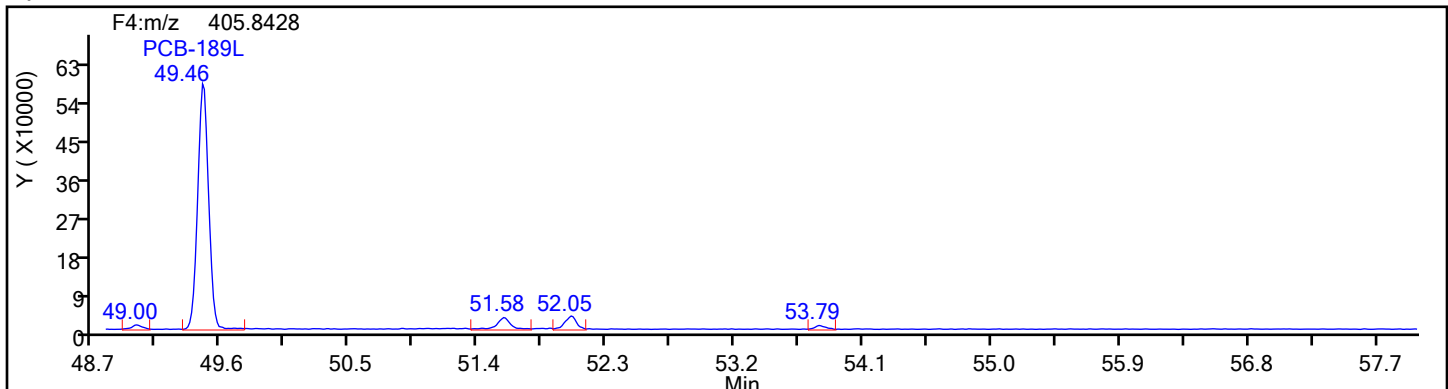
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4

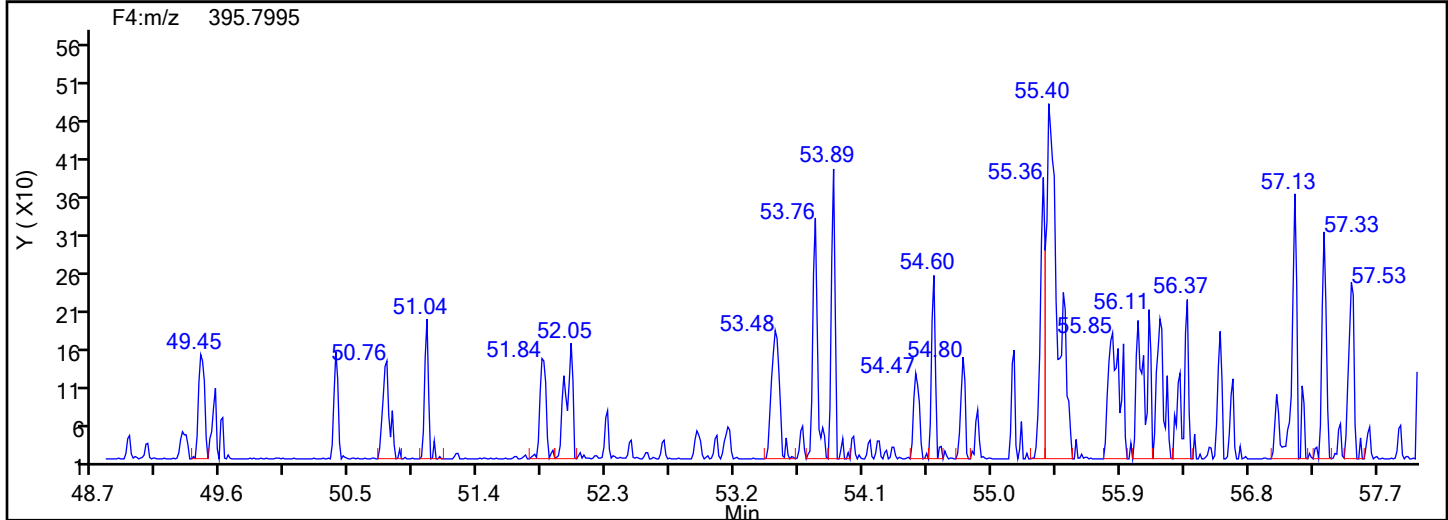
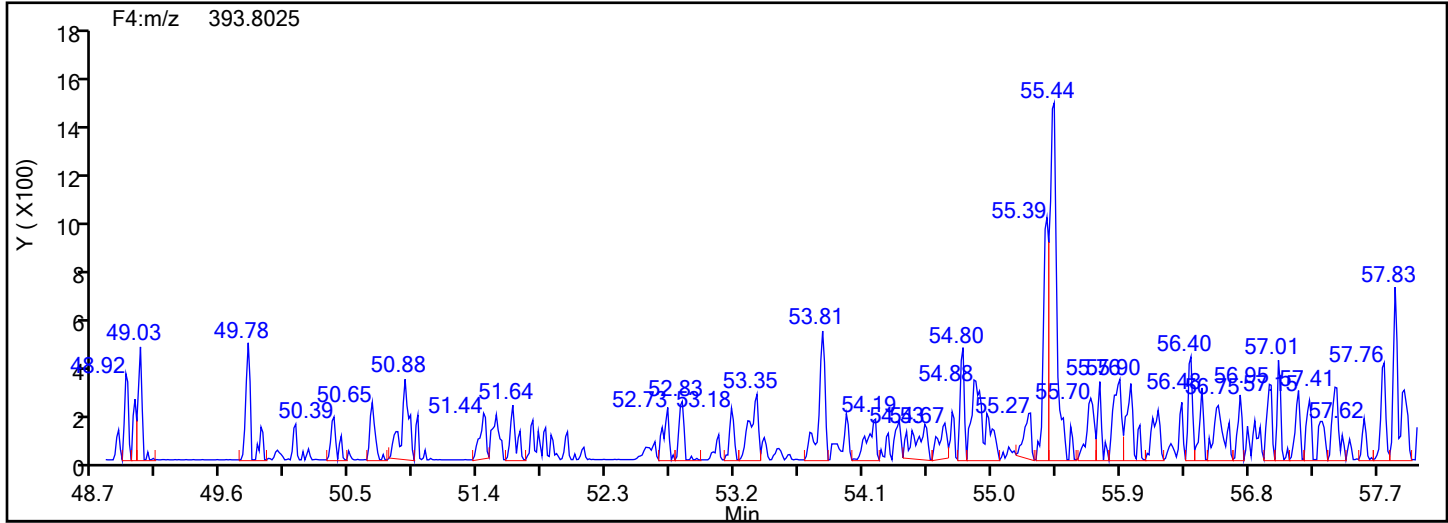


HpPCB F4 Standards

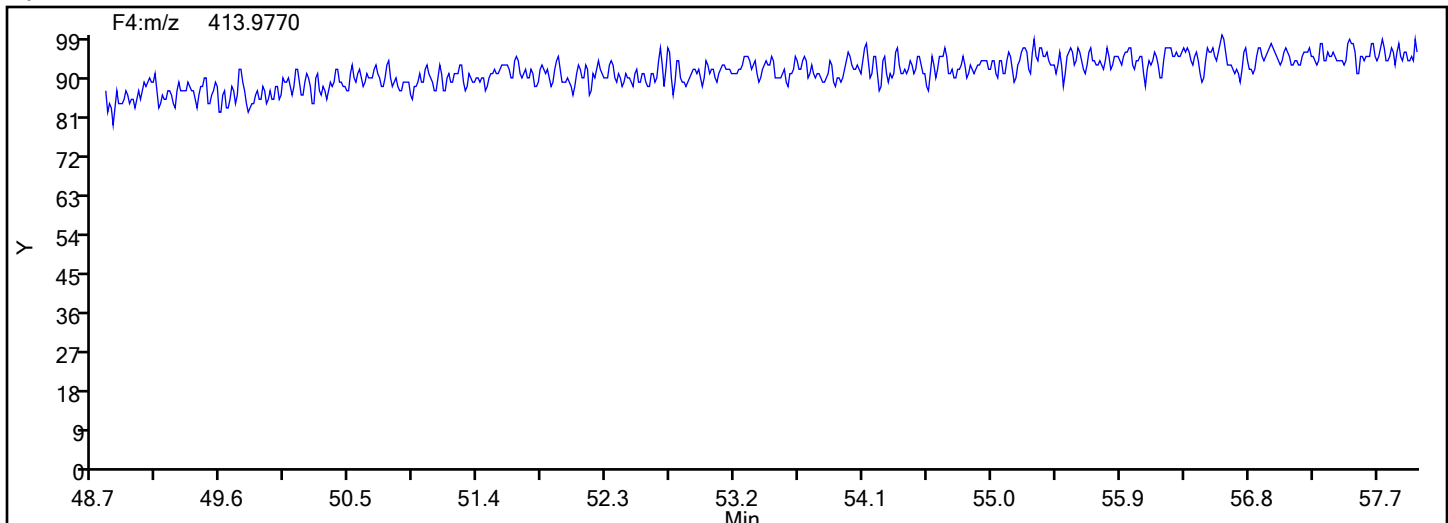


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d

Injection Date: 11-Jun-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 1 COMBINED

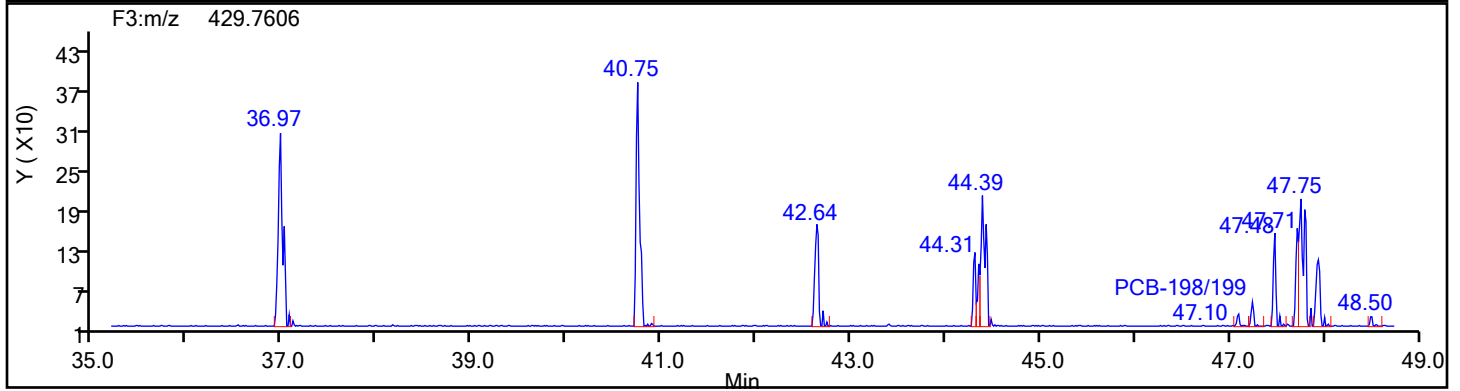
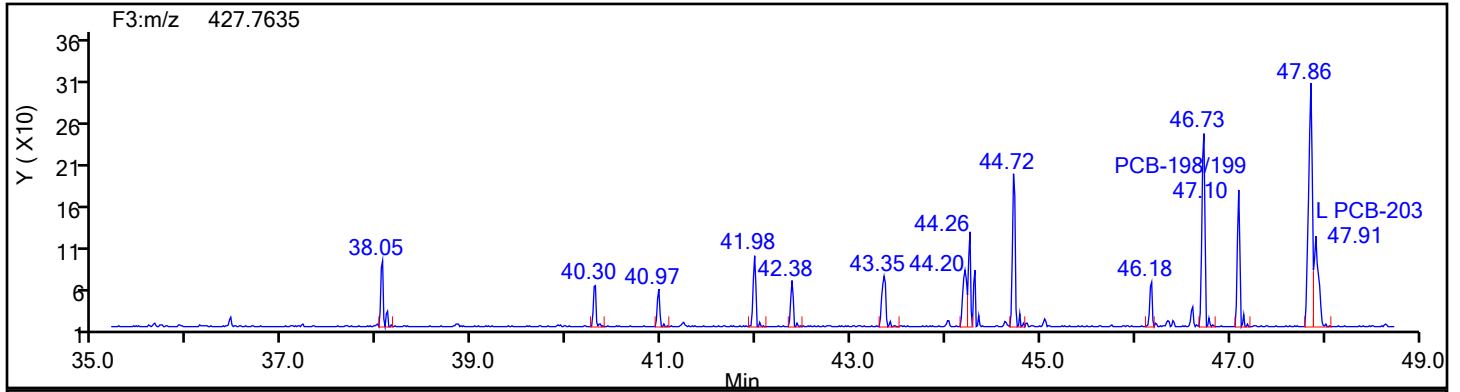
Worklist#: 87502

Sample Line#: 9

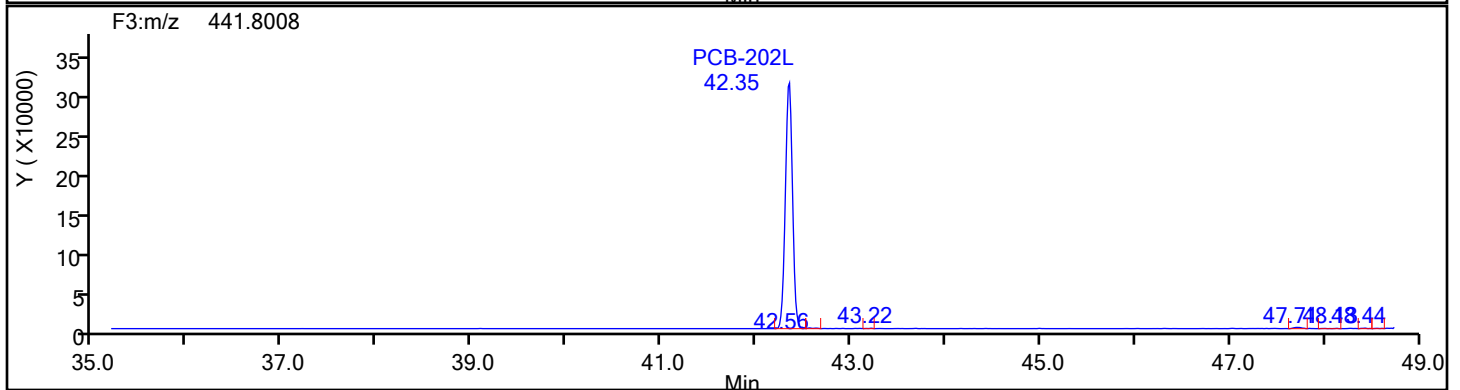
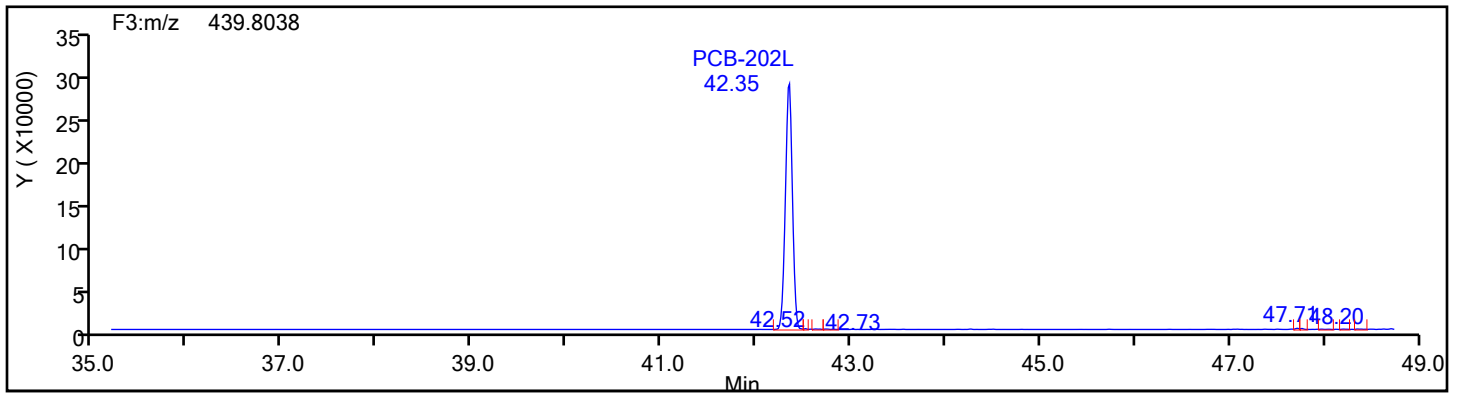
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

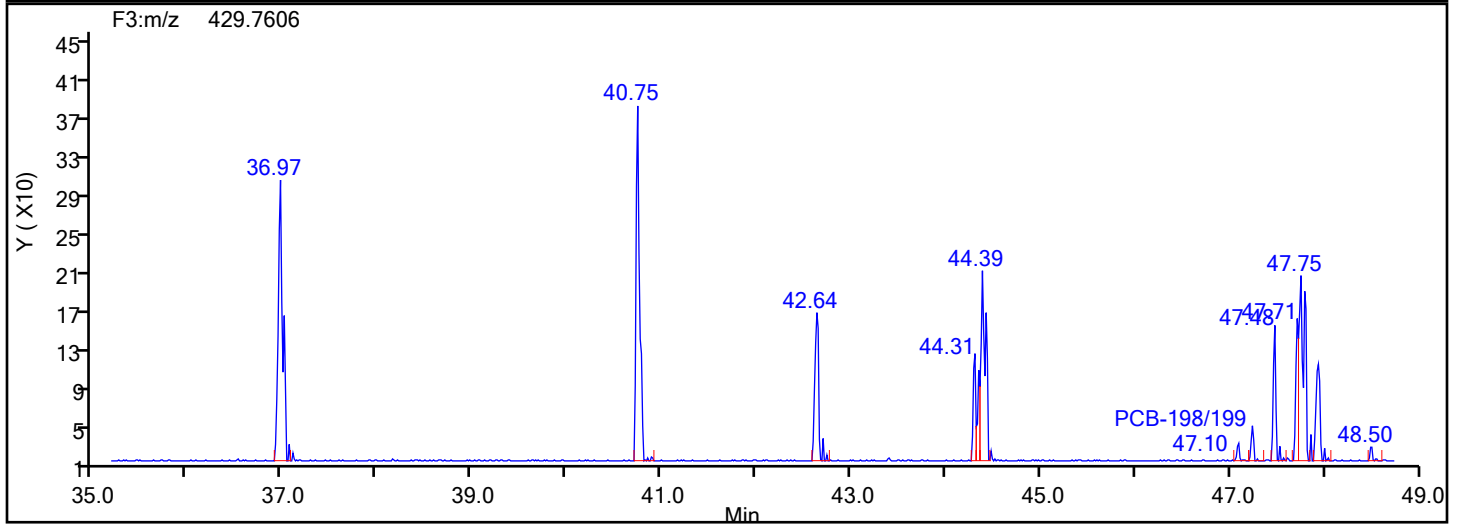
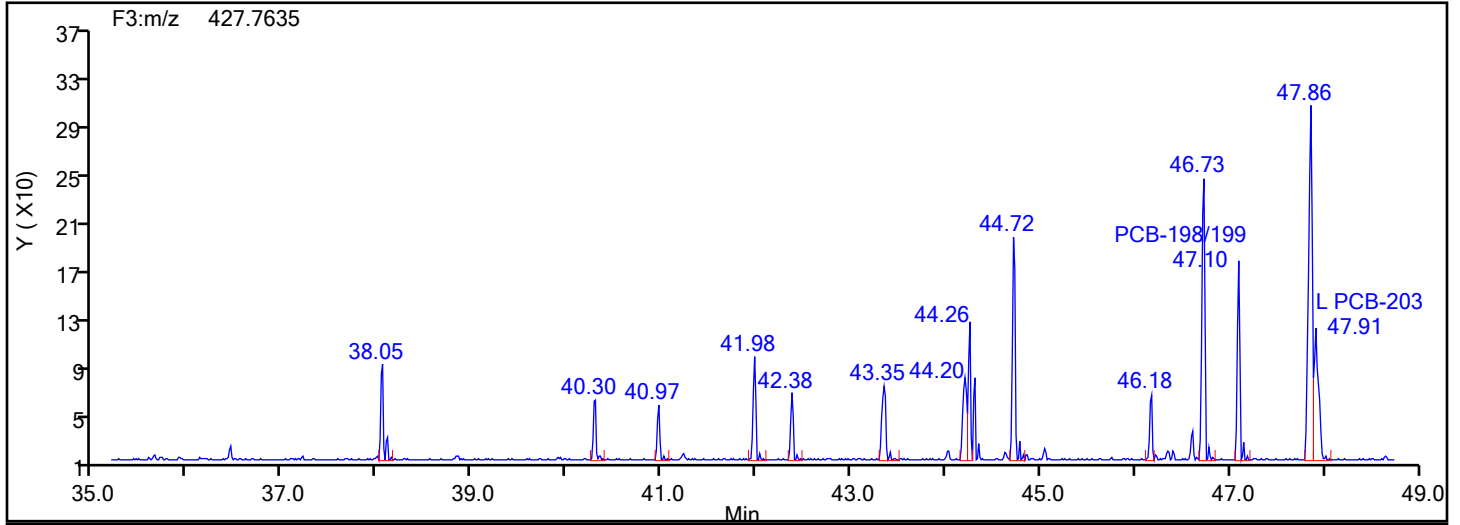


OcPCB F3 Standards

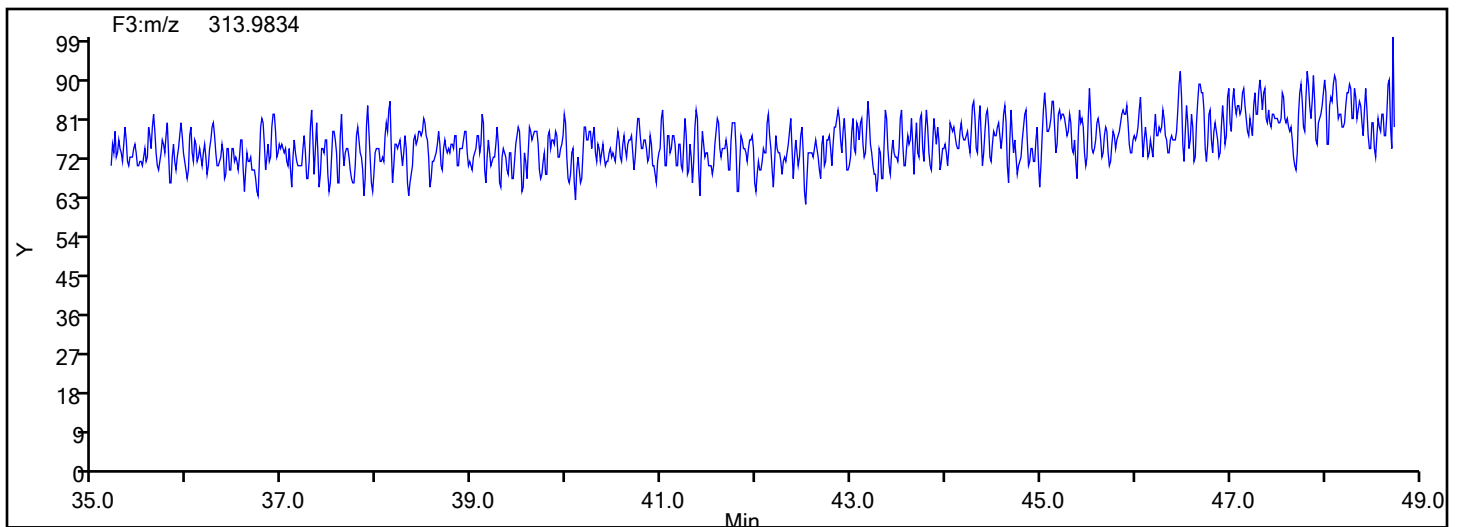


Eurofins Knoxville

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Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

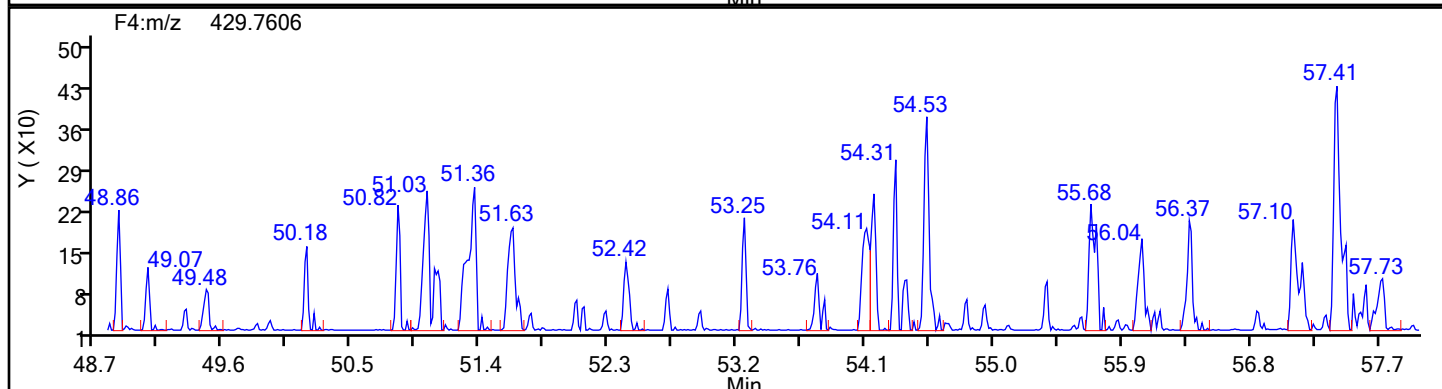
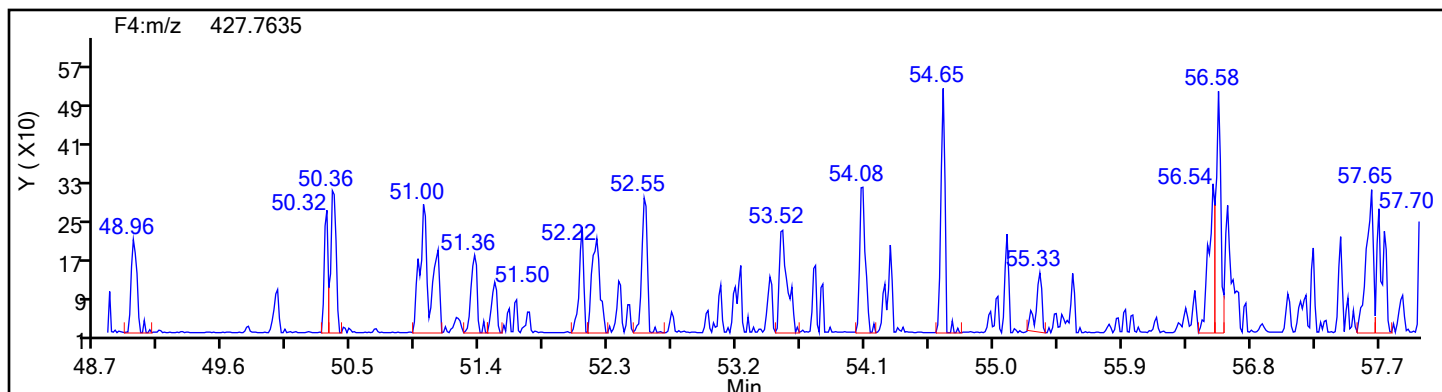


OcPCB F3 Lock Mass

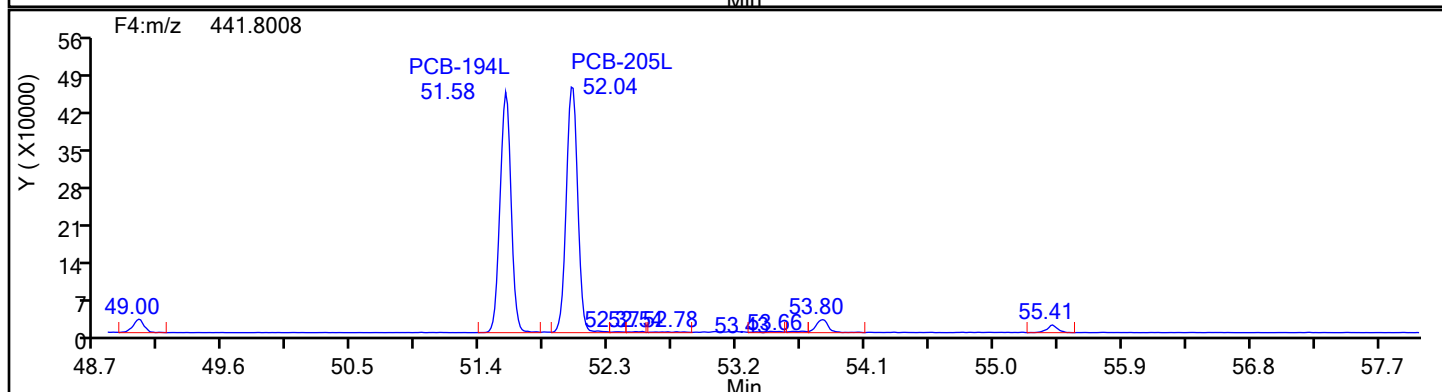
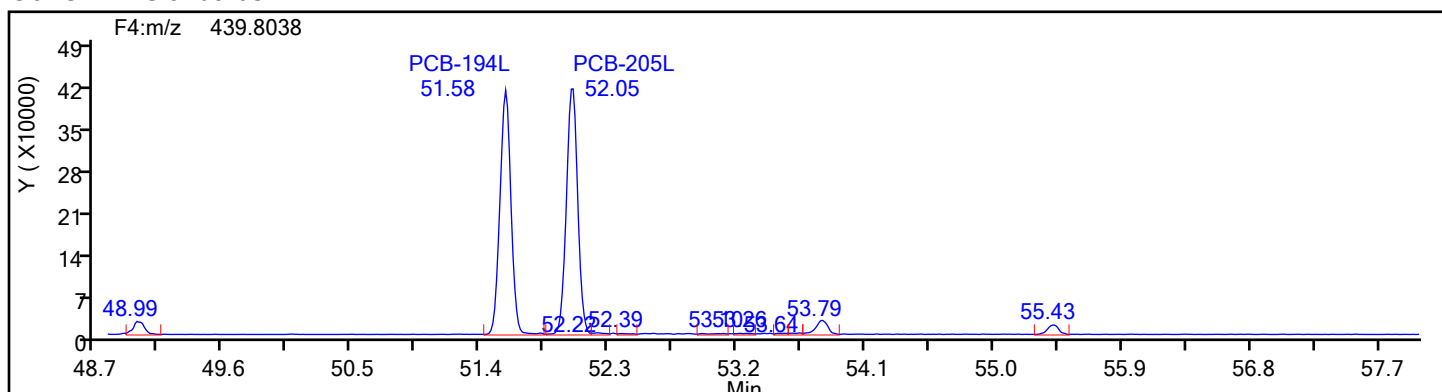


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

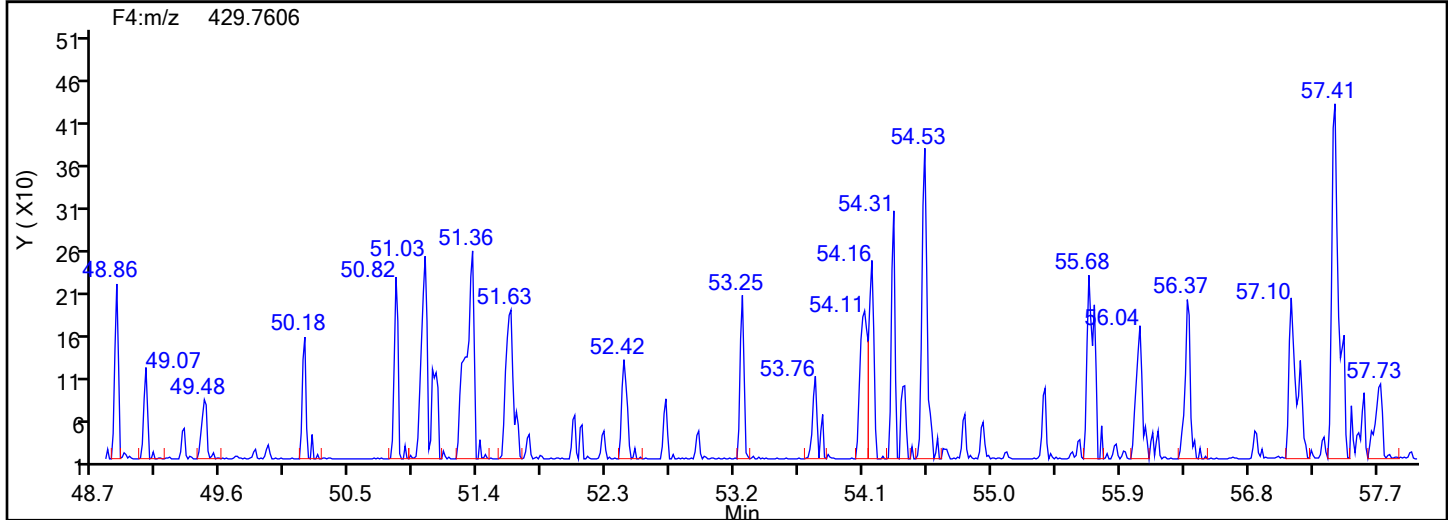
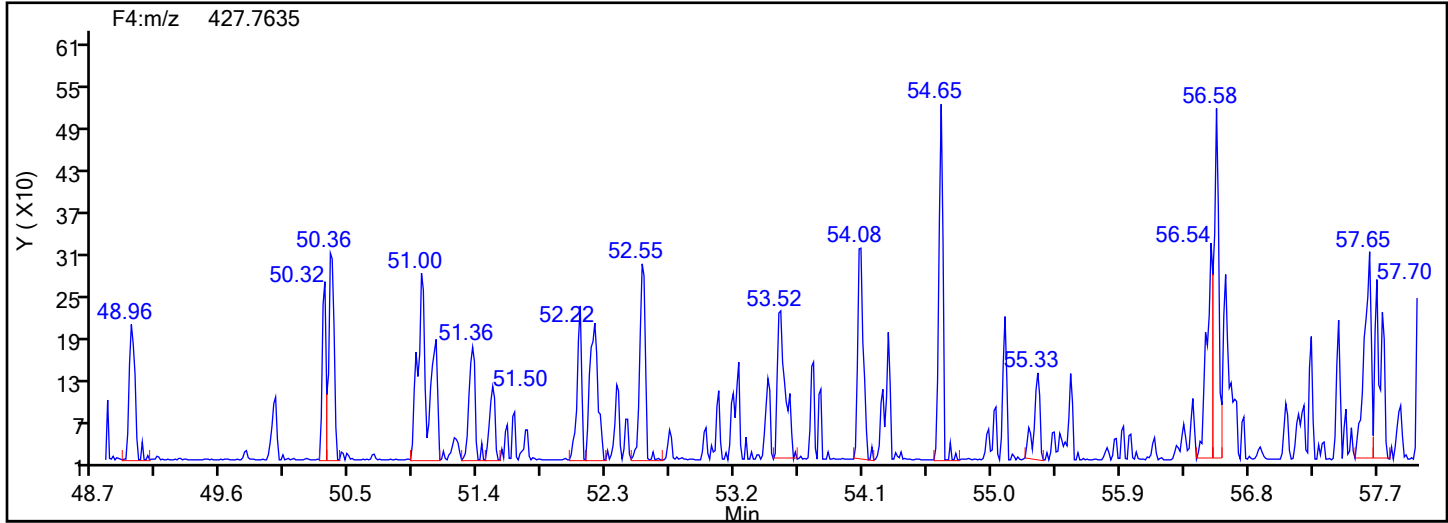


OcPCB F4 Standards

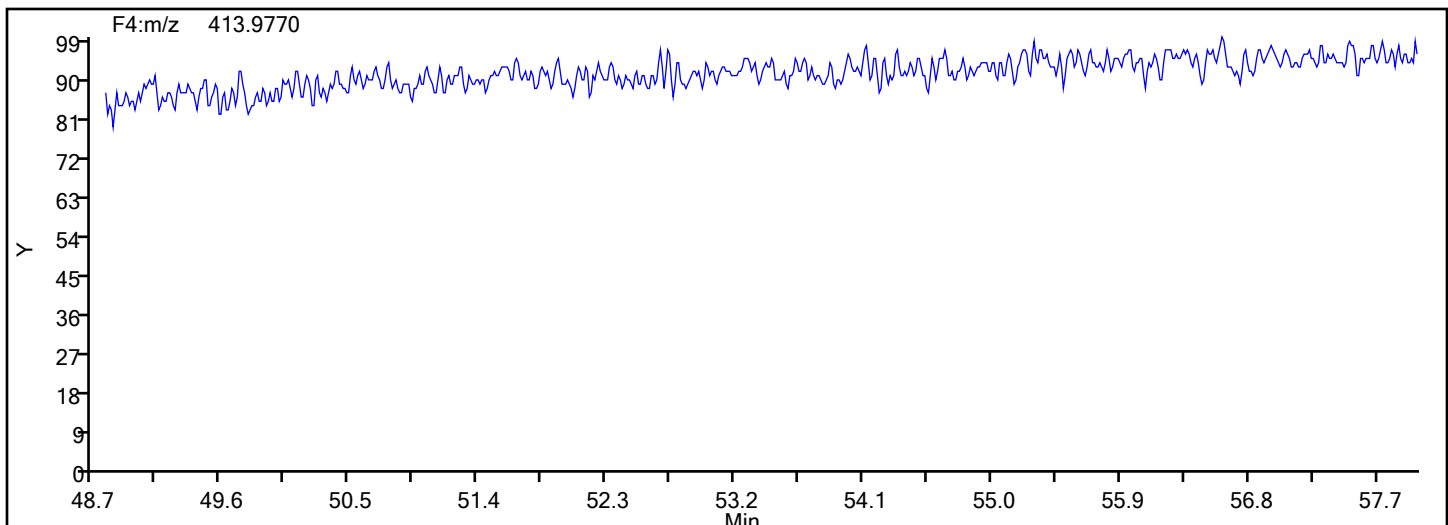


Eurofins Knoxville

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Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

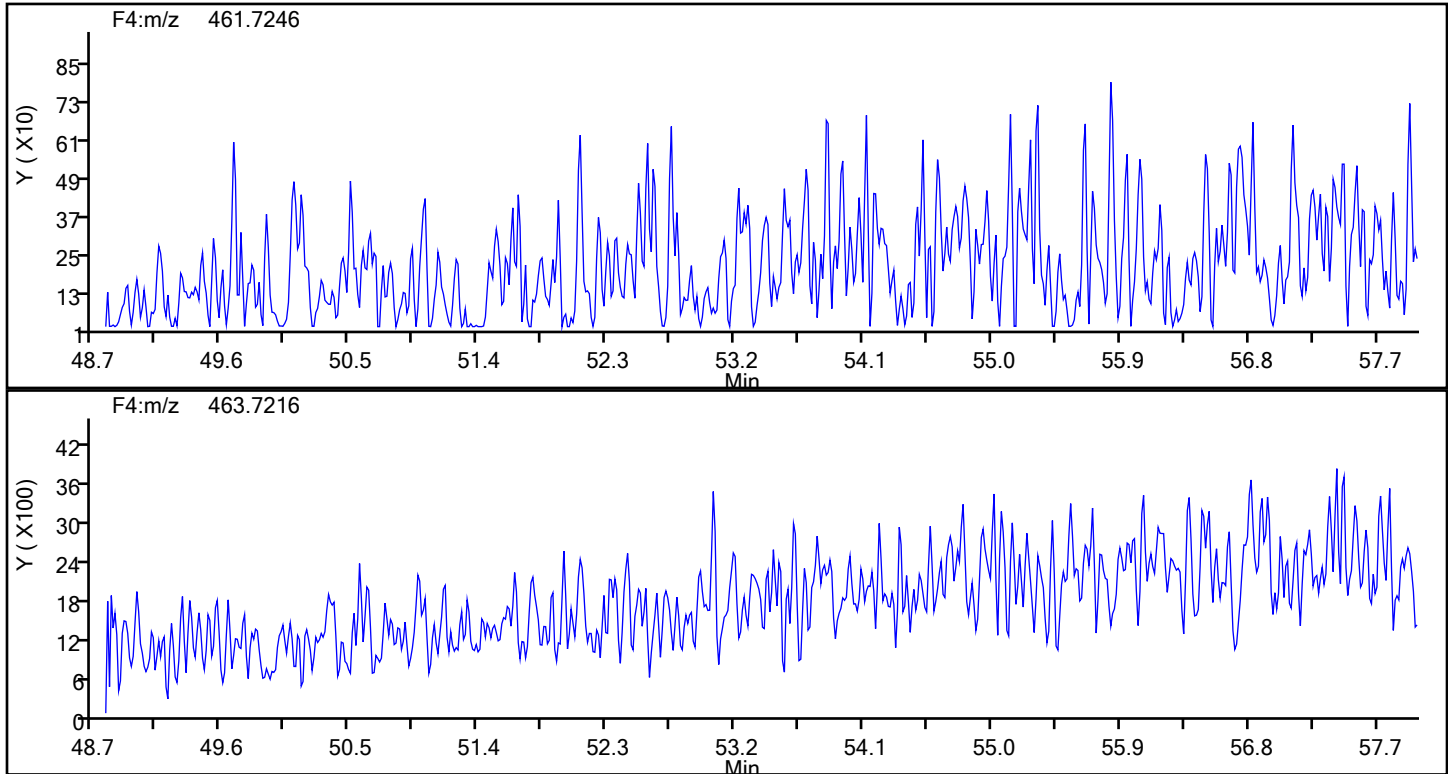


OcPCB F4 Lock Mass

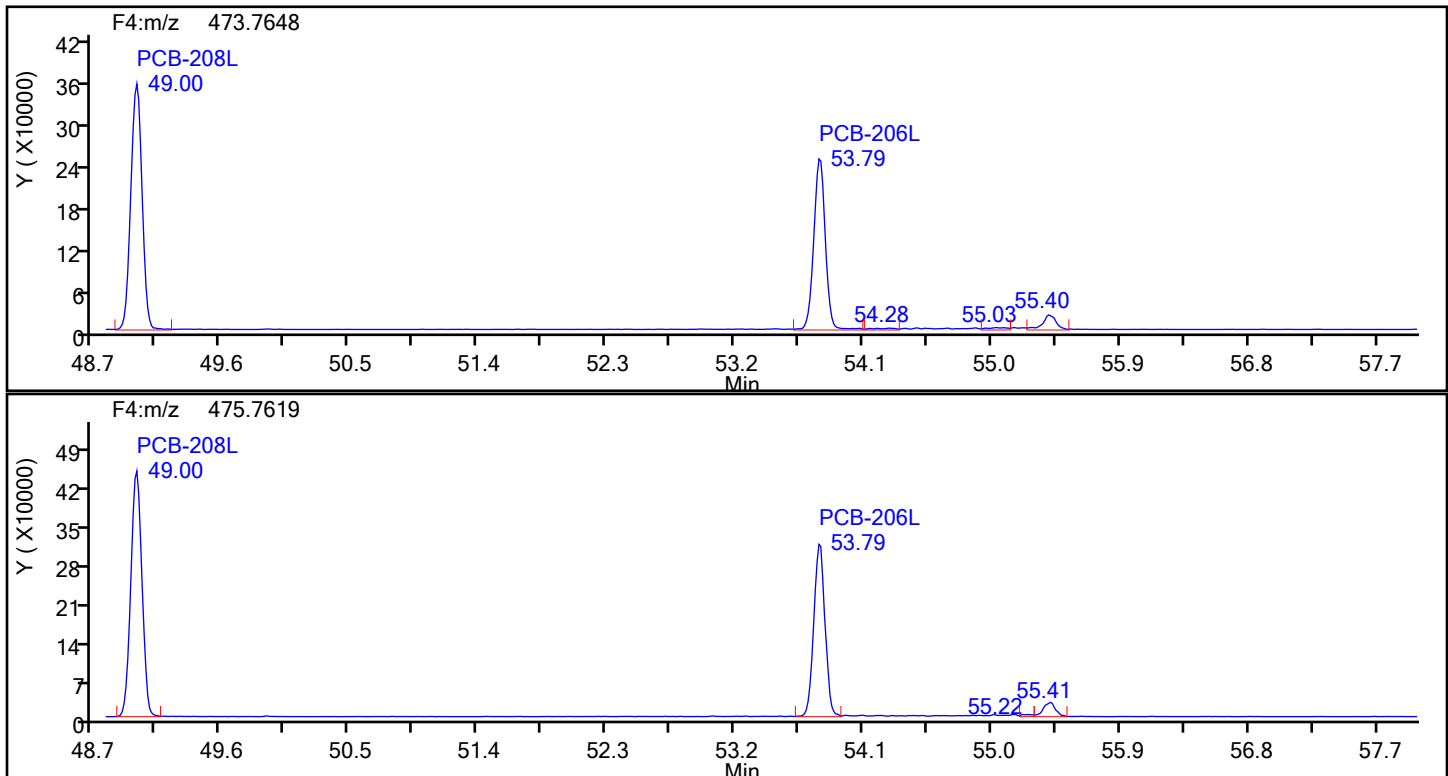


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

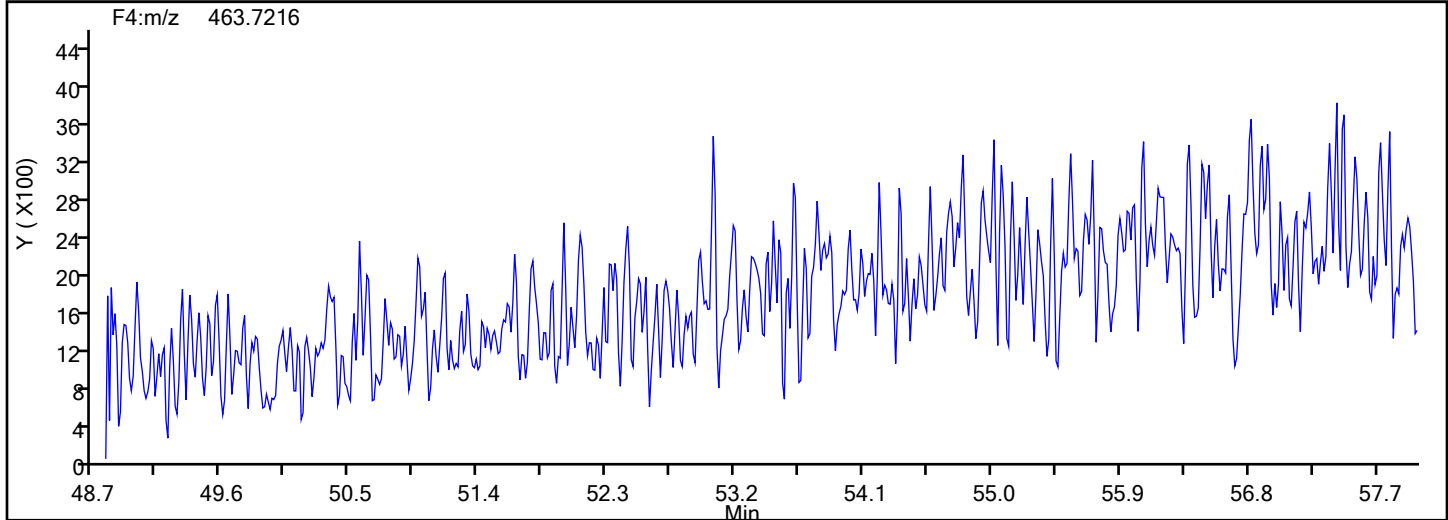
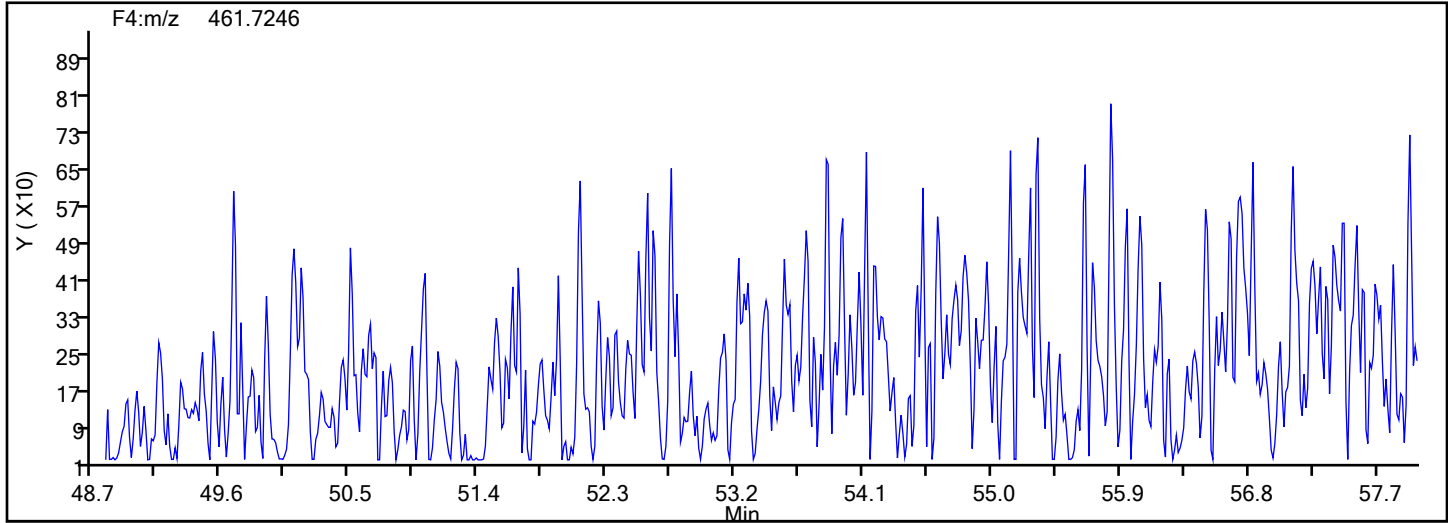


NoPCB F4 Standards

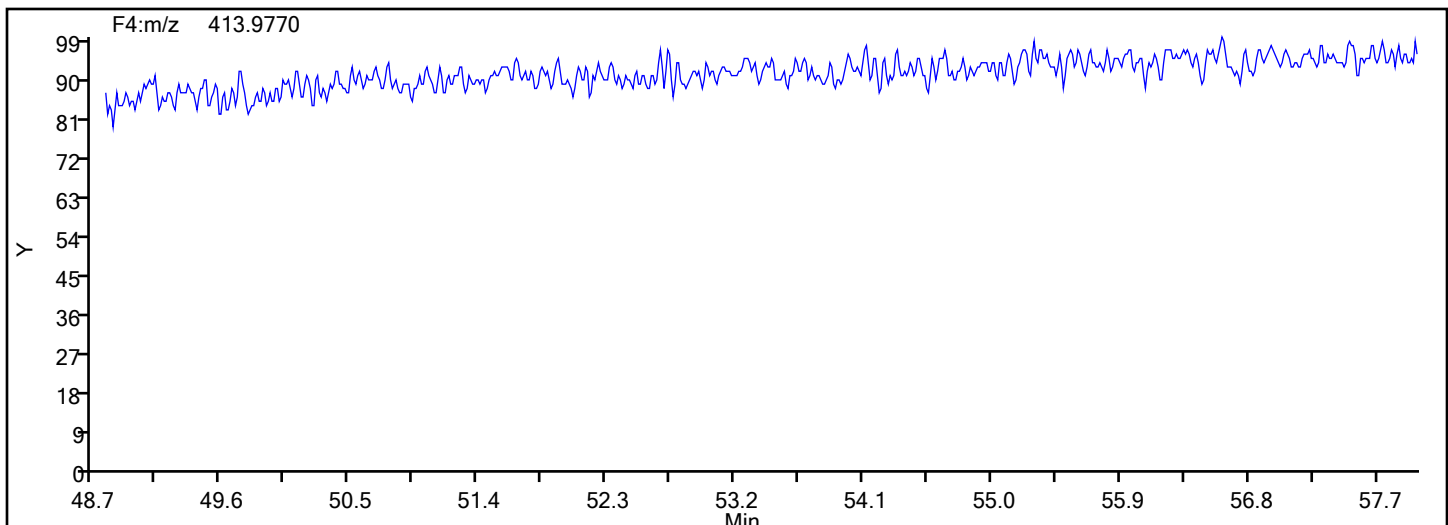


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

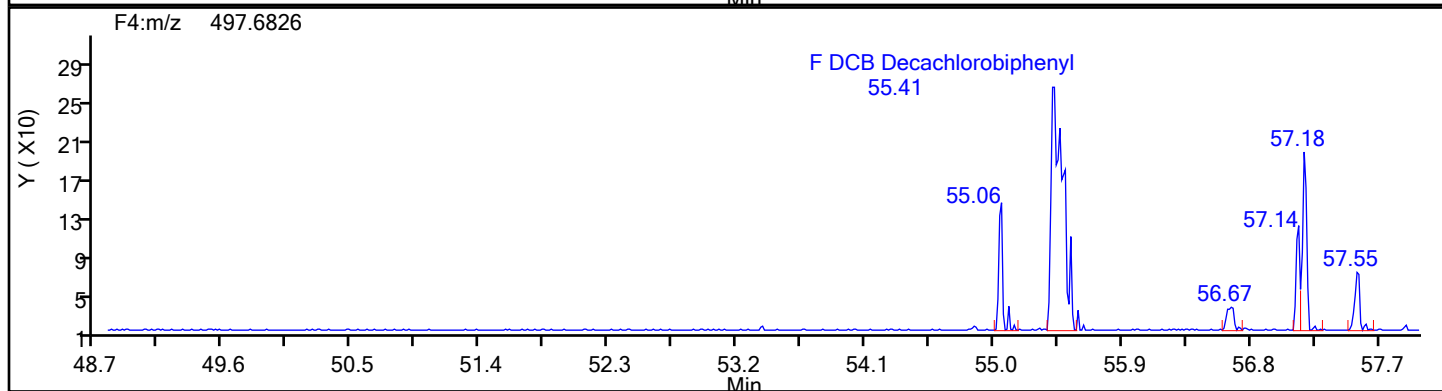
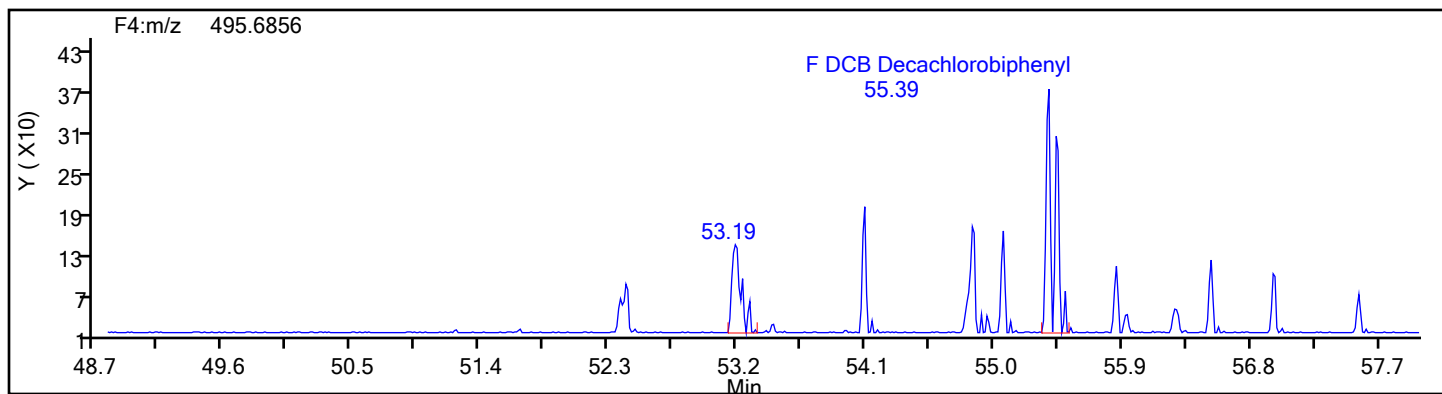


NoPCB F4 Lock Mass

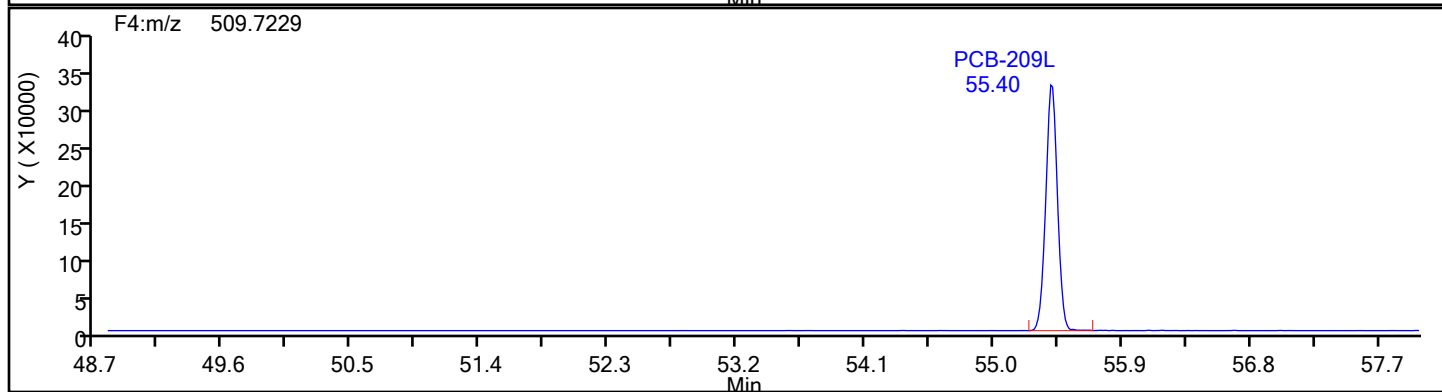
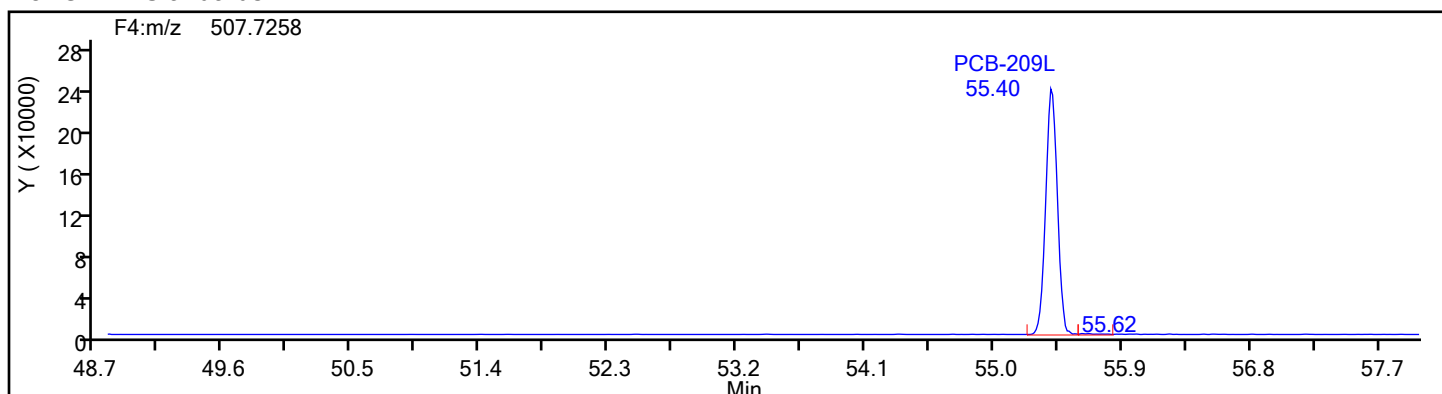


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

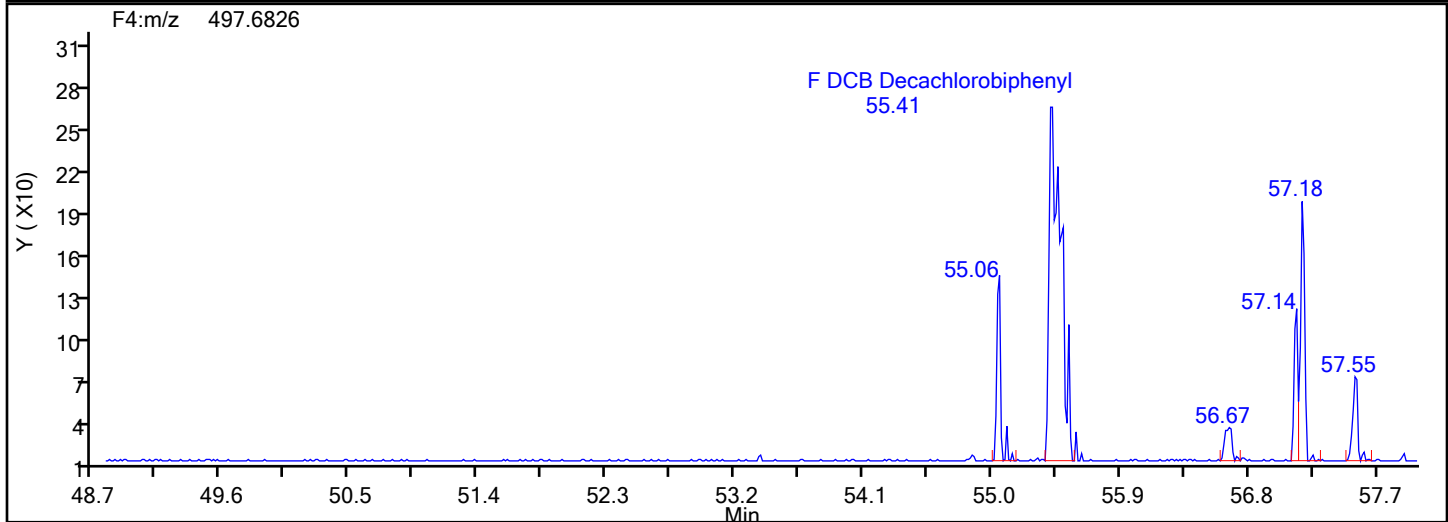
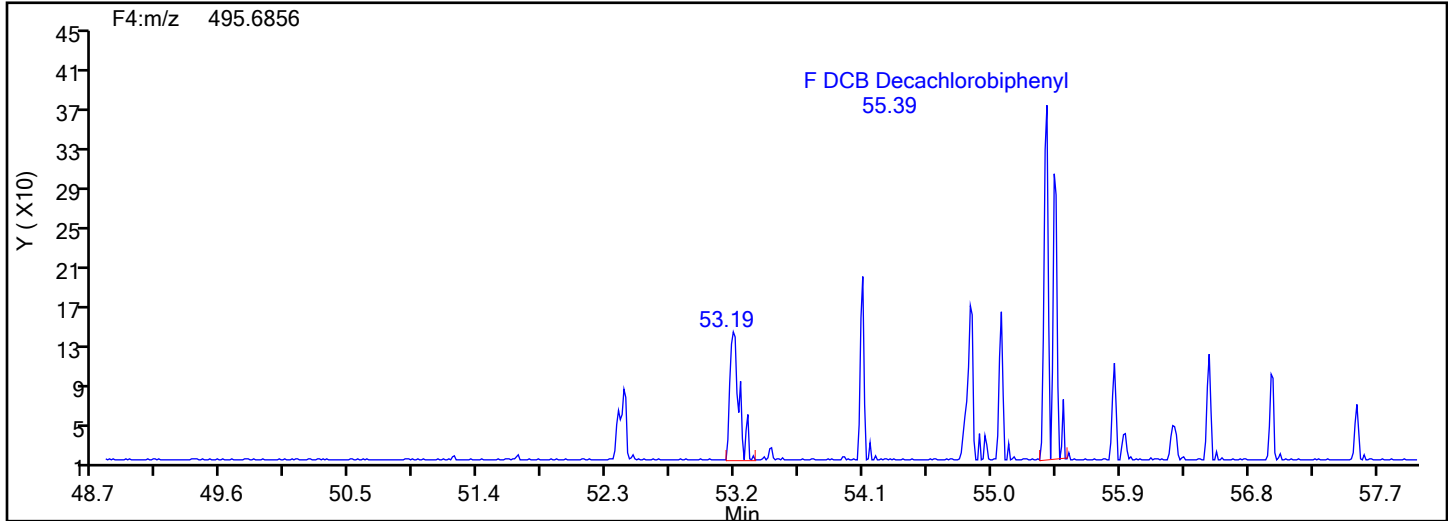


DePCB F4 Standards

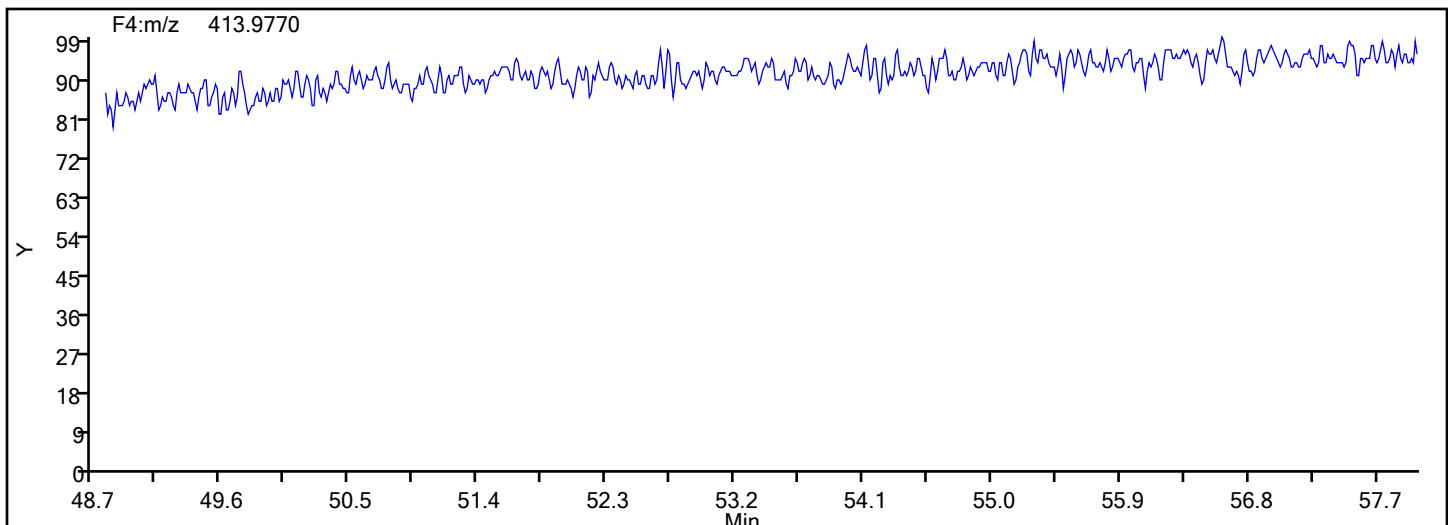


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Worklist#: 87502 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville

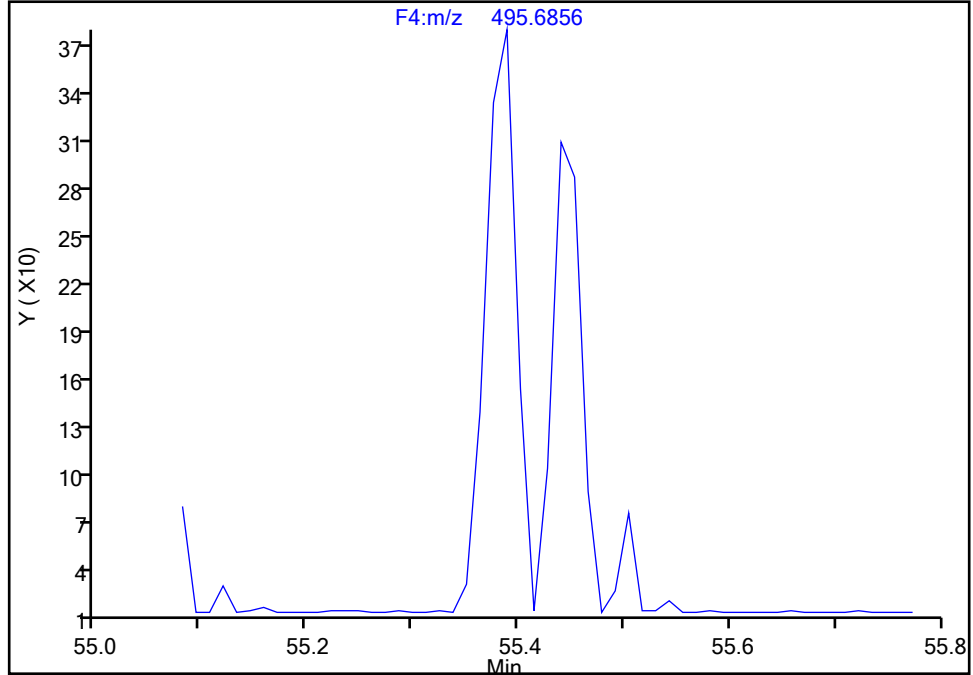
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Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

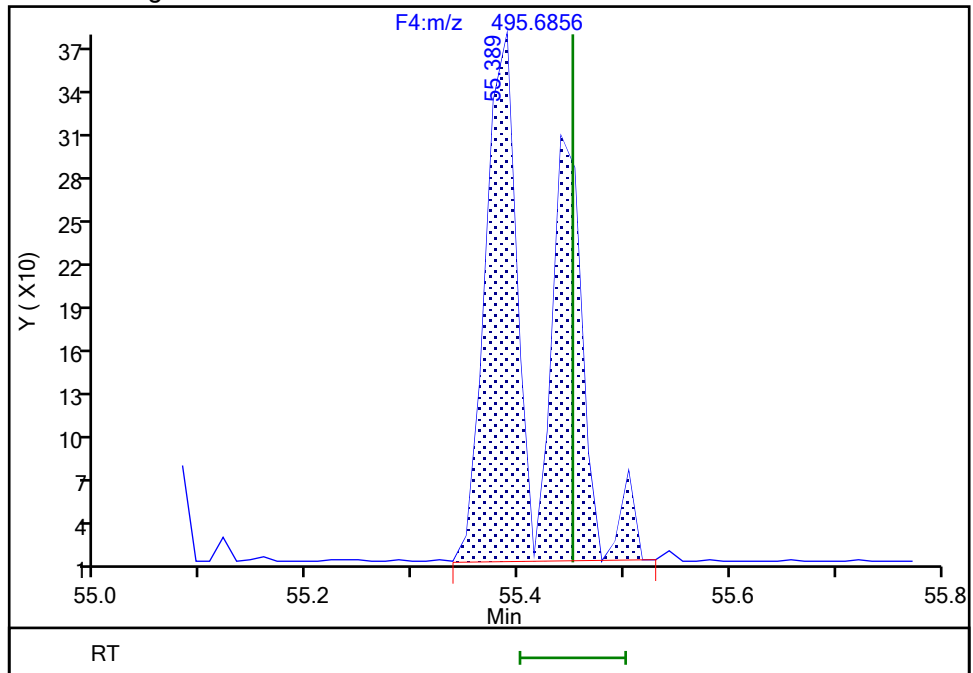
Not Detected
Expected RT: 55.45

Processing Integration Results



Manual Integration Results

RT: 55.39
Area: 1310
Amount: 0.076002
Amount Units: pg/ul



Reviewer: TT6I, 12-Jun-2024 09:14:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

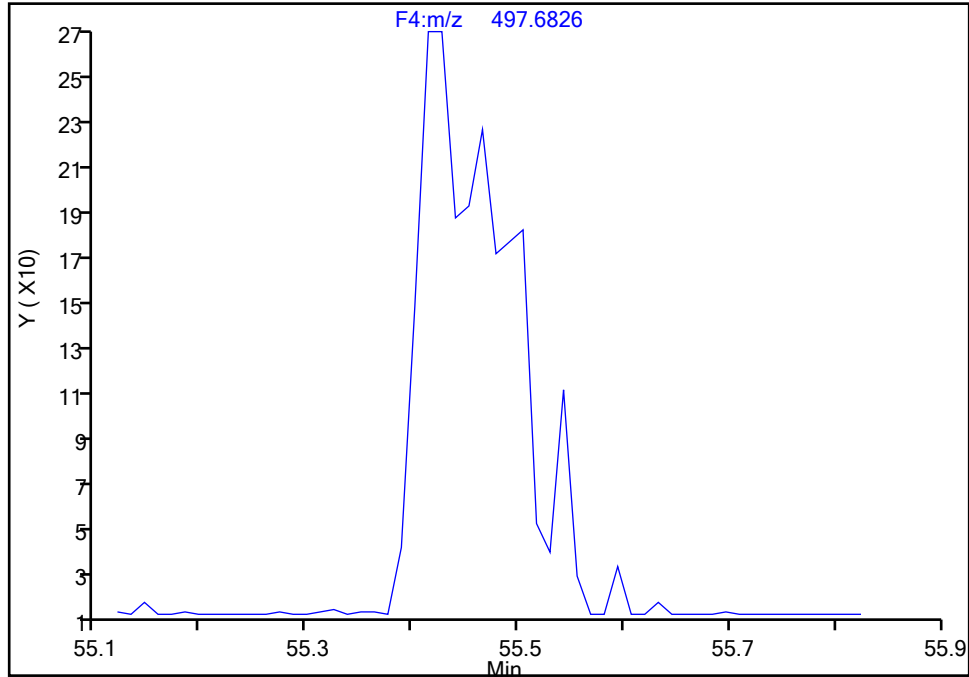
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Injection Date: 11-Jun-2024 16:04:00 Instrument ID: D2D
Lims ID: 140-36689-A-1-C Lab Sample ID: 140-36689-1
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

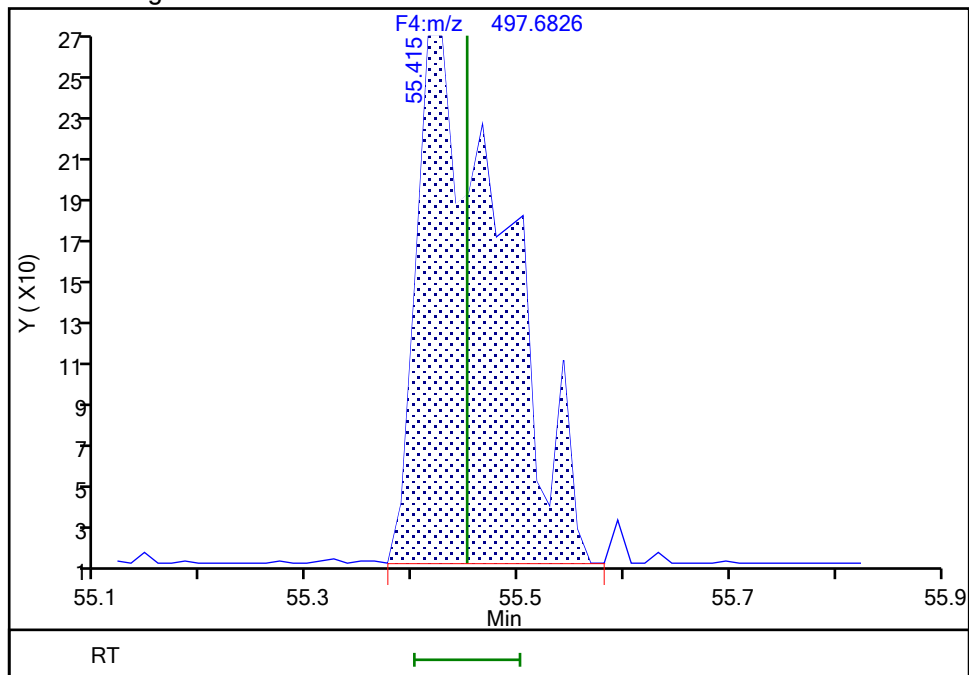
Not Detected
Expected RT: 55.45

Processing Integration Results



RT: 55.41
Area: 1403
Amount: 0.076002
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 12-Jun-2024 09:14:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-1-c.d
Lims ID: 140-36689-A-1-C
Client ID: M23-NO.3 BOILER-RUN 1 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 16:04:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-009
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 09:14:55 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 09:14:55

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	32.8	98.39
PCB-28L	100.0	76.6	76.64
PCB-79L	33.3	34.4	103.29
PCB-95L	33.3	35.2	105.73
PCB-111L	100.0	80.5	80.46
PCB-153L	33.3	31.1	93.38
PCB-178L	100.0	81.8	81.79

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 2</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-2-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/07/2024 19:40</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/11/2024 17:06</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	2.41	S	0.600	0.132	0.0202
37680-65-2	PCB-18	0.966	S C B	0.600	0.285	0.0171
7012-37-5	PCB-28	2.28	C20 B	0.600	0.252	0.0192
41464-39-5	PCB-44	6.28	C	0.900	0.390	0.0367
35693-99-3	PCB-52	2.19		0.300	0.132	0.0388
32598-10-0	PCB-66	0.592		0.300	0.120	0.0284
32598-13-3	PCB-77	ND		0.300	0.126	0.0325
70362-50-4	PCB-81	ND		0.300	0.0960	0.0336
37680-73-2	PCB-101	3.45	C90	0.900	0.390	0.0120
32598-14-4	PCB-105	1.46		0.300	0.102	0.0178
74472-37-0	PCB-114	0.0811	J q	0.300	0.165	0.0192
31508-00-6	PCB-118	3.73	B	0.300	0.183	0.0163
65510-44-3	PCB-123	0.0683	J q	0.300	0.171	0.0183
57465-28-8	PCB-126	ND		0.300	0.123	0.0196
38380-07-3	PCB-128	0.637	C	0.600	0.204	0.00930
35065-28-2	PCB-138	4.66	C129	1.20	0.510	0.00966
35065-27-1	PCB-153	3.28	C B	0.600	0.249	0.00836
38380-08-4	PCB-156	0.187	J C	0.600	0.255	0.0101
69782-90-7	PCB-157	0.187	J C156	0.600	0.255	0.0101
52663-72-6	PCB-167	0.0868	J	0.300	0.180	0.00676
32774-16-6	PCB-169	ND		0.300	0.123	0.00681
35065-30-6	PCB-170	0.0344	J q	0.300	0.132	0.000215
35065-29-3	PCB-180	0.155	J C	0.600	0.204	0.000168
52663-68-0	PCB-187	0.130	J q	0.300	0.126	0.000178
39635-31-9	PCB-189	ND		0.300	0.147	0.00540
52663-78-2	PCB-195	ND		0.300	0.159	0.00147
40186-72-9	PCB-206	ND		0.300	0.171	0.120
2051-24-3	PCB-209	0.0454	J q B	0.300	0.138	0.00236

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Client Sample ID: M23-NO.3 BOILER-RUN 2 Lab Sample ID: 140-36689-2
COMBINED
Matrix: Air Lab File ID: 140-36689-a-2-c.d
Analysis Method: 23 Date Collected: 05/07/2024 19:40
Extract. Method: Combined Prep Date Extracted: 05/31/2024 12:09
Sample wt/vol: 1(Sample) Date Analyzed: 06/11/2024 17:06
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 87502 Units: ng/Sample
Preparation Batch No.: 87206 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	82		20-130
235416-29-2	PCB-111L	87		20-130
232919-67-4	PCB-178L	88		20-130
STL01600	PCB-8L	90	S	70-130
STL01603	PCB-79L	100		70-130
STL01604	PCB-95L	102		70-130
STL01606	PCB-153L	93		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
 Lims ID: 140-36689-A-2-C
 Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
 Sample Type: Client
 Inject. Date: 11-Jun-2024 17:06:00 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033026-010
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 12-Jun-2024 01:10:38 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1669

First Level Reviewer: Q9DB

Date: 12-Jun-2024 01:10:38

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					8.830	8.830	0.0450	0.0450		
D PCB-1L	11:34	6291689	3.09	1.6108	57.4	57.4	0.6875	0.6875	57.44	
D PCB-3L	13:42	7028368	3.15	1.5891	65.0	65.0	0.6969	0.6969	65.04	
PCB-1	11:34	170740	2.79	1.2191	2.226	2.226	0.0443	0.0443		
PCB-2	13:32	219289	3.22	1.1805	2.789	2.789	0.0459	0.0459		
PCB-3	13:43	327225	3.16	1.2206	3.814	3.814	0.0446	0.0446		
S Total Dichlorobiphenyls					66.7	66.7	0.0788	0.0788		RQ
D PCB-4L	13:57	2995697	1.58	0.6475	68.0	68.0	0.2181	0.2181	68.03	
* PCB-9L	15:57	6800395	1.58		100.0	100.0				
\$ PCB-8L	16:51	1033528	1.56	1.2066	29.8	29.8	0.2268	0.2268	89.51	a
D PCB-15L	20:05	2745829	1.63	1.0789	37.4	37.4	0.1309	0.1309	37.42	a
PCB-4	13:58	61159	1.50	1.2818	1.593	1.593	0.0672	0.0672		
PCB-10	14:08	16301	1.58	1.3149	0.4319	0.4319	0.0815	0.0815		
PCB-9	15:59	63125	1.61	1.4224	1.546	1.546	0.0754	0.0754		a
PCB-7	16:07	70815	1.78	1.4134	1.745	1.745	0.0758	0.0758		
PCB-6	16:24	110276	1.64	1.5421	2.491	2.491	0.0695	0.0695		a
PCB-5	16:40	6859	1.56	1.3395	0.2328	0.1784	0.0800	0.0800		RQa
PCB-8	16:52	366197	1.64	1.5889	8.028	8.028	0.0675	0.0675		a
PCB-14	18:24						0.0764	0.0764		
PCB-11	19:29	1814488	1.60	1.2951	48.8	48.8	0.0828	0.0828		a
PCB-12	19:29						0.0802	0.0802		U
PCB-13 (C12)	19:29						0.0802	0.0802		U
PCB-15	20:06	65477	1.73	1.2903	1.848	1.848	0.1099	0.1099		M
S Total Trichlorobiphenyls					39.6	39.2	0.0666	0.0666		RQ
D PCB-19L	17:10	1618767	1.04	0.6285	72.6	72.6	0.7789	0.7789	72.59	
* PCB-32L	20:31	3548004	1.09		100.0	100.0				
* PCB-31L	22:40	12831595	1.04		100.0	100.0				
\$ PCB-28L	22:57	11069442	1.04	1.0494	82.2	82.2	0.1218	0.1218	82.21	
D PCB-37L	26:53	9022711	1.05	0.8749	80.4	80.4	0.1460	0.1460	80.37	
PCB-19	17:10	11822	1.04	1.2809	0.6559	0.5702	0.0787	0.0787		RQ
PCB-18	19:10	92005	1.00	1.7652	3.220	3.220	0.0571	0.0571		M
PCB-30 (C18)	19:10	92005	1.00	1.7652	3.220	3.220	0.0571	0.0571		M
PCB-17	19:36	94249	1.01	1.2430	4.684	4.684	0.0811	0.0811		Ma
PCB-27	19:34						0.0550	0.0550		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:42						0.0601	0.0601		
PCB-16	19:57	3454	1.04	1.1286	0.2361	0.1891	0.0893	0.0893		RQ
PCB-32	20:32	86803	1.01	1.8324	2.926	2.926	0.0550	0.0550		a
PCB-34	21:35						0.0664	0.0664		
PCB-23	21:43						0.0693	0.0693		
PCB-26	22:09	148427	1.04	1.1255	1.633	1.462	0.0665	0.0665		RQ
PCB-29 (C26)	22:09	148427	1.04	1.1255	1.633	1.462	0.0665	0.0665		RQ
PCB-25	22:23	107442	0.95	1.2728	0.9356	0.9356	0.0588	0.0588		a
PCB-31	22:42	834394	1.01	1.1532	8.019	8.019	0.0649	0.0649		a
PCB-20	22:58	804902	0.98	1.1718	7.613	7.613	0.0639	0.0639		
PCB-28 (C20)	22:58	804902	0.98	1.1718	7.613	7.613	0.0639	0.0639		
PCB-21	23:12	527472	0.98	1.0746	5.440	5.440	0.0697	0.0697		a
PCB-33 (C21)	23:12	527472	0.98	1.0746	5.440	5.440	0.0697	0.0697		a
PCB-22	23:35	290547	1.02	1.1932	2.699	2.699	0.0628	0.0628		a
PCB-36	25:08	10198	1.04	1.1071	0.1414	0.1021	0.0677	0.0677		RQ
PCB-39	25:25						0.0647	0.0647		
PCB-38	26:00						0.0691	0.0691		
PCB-35	26:30	56571	1.08	1.1297	0.5550	0.5550	0.0663	0.0663		
PCB-37	26:54	85688	0.98	1.1435	0.8305	0.8305	0.0655	0.0655		
S Total Tetrachlorobiphenyls					57.5	57.1	0.1085	0.1085		RQ
D PCB-54L	20:22	1488694	0.81	0.5562	75.4	75.4	0.0762	0.0762	75.43	a
* PCB-52L	24:44	6269195	0.80		100.0	100.0				
\$ PCB-79L	32:36	2229979	0.77	1.0018	33.2	33.2	0.1961	0.1961	99.62	
D PCB-81L	33:35	6454776	0.81	1.2470	82.6	82.6	0.1463	0.1463	82.57	
D PCB-77L	34:08	6952186	0.82	1.3212	83.9	83.9	0.1381	0.1381	83.94	
PCB-54	20:10						0.0229	0.0229		
PCB-50	22:25	59187	0.88	0.8578	1.029	1.029	0.1387	0.1387		a
PCB-53 (C50)	22:25	59187	0.88	0.8578	1.029	1.029	0.1387	0.1387		a
PCB-45	23:09	301523	0.76	0.8264	5.443	5.443	0.1440	0.1440		M
PCB-51 (C45)	23:09	301523	0.76	0.8264	5.443	5.443	0.1440	0.1440		M
PCB-46	23:23	17785	0.86	0.7101	0.3736	0.3736	0.1676	0.1676		a
PCB-52	24:46	450288	0.80	0.9194	7.306	7.306	0.1294	0.1294		a
PCB-43	24:51						0.1152	0.1152		
PCB-73 (C43)	24:51						0.1152	0.1152		
PCB-49	25:15	223020	0.82	1.0685	3.114	3.114	0.1114	0.1114		a
PCB-69 (C49)	25:15	223020	0.82	1.0685	3.114	3.114	0.1114	0.1114		a
PCB-48	25:31	71311	0.77	0.8399	1.382	1.267	0.1417	0.1417		RQa
PCB-44	25:47	1366599	0.81	0.9731	20.9	20.9	0.1223	0.1223		
PCB-47 (C44)	25:47	1366599	0.81	0.9731	20.9	20.9	0.1223	0.1223		
PCB-65 (C44)	25:47	1366599	0.81	0.9731	20.9	20.9	0.1223	0.1223		
PCB-59	26:04	34685	0.79	1.1853	0.4365	0.4365	0.1004	0.1004		Ma
PCB-62 (C59)	26:04	34685	0.79	1.1853	0.4365	0.4365	0.1004	0.1004		Ma
PCB-75 (C59)	26:04	34685	0.79	1.1853	0.4365	0.4365	0.1004	0.1004		Ma
PCB-42	26:16	60886	0.66	0.8097	1.122	1.122	0.1470	0.1470		M
PCB-40	26:46	137034	0.77	0.8863	2.563	2.306	0.1343	0.1343		RQM
PCB-41 (C40)	26:46	137034	0.77	0.8863	2.563	2.306	0.1343	0.1343		RQM
PCB-71 (C40)	26:46	137034	0.77	0.8863	2.563	2.306	0.1343	0.1343		RQM
PCB-64	26:58	139797	0.76	1.1776	1.771	1.771	0.1011	0.1011		
PCB-72	27:46						0.1087	0.1087		
PCB-68	28:05	242423	0.87	1.2533	2.885	2.885	0.0949	0.0949		
PCB-57	28:28						0.1100	0.1100		
PCB-58	28:42						0.0898	0.0898		
PCB-67	28:52						0.0836	0.0836		
PCB-63	29:08						0.1059	0.1059		
PCB-61	29:29	462925	0.84	1.2612	5.475	5.475	0.0943	0.0943		
PCB-70 (C61)	29:29	462925	0.84	1.2612	5.475	5.475	0.0943	0.0943		
PCB-74 (C61)	29:29	462925	0.84	1.2612	5.475	5.475	0.0943	0.0943		
PCB-76 (C61)	29:29	462925	0.84	1.2612	5.475	5.475	0.0943	0.0943		
PCB-66	29:48	166324	0.82	1.2583	1.972	1.972	0.0946	0.0946		
PCB-55	29:58						0.0899	0.0899		
PCB-56	30:29	80698	0.81	1.2334	0.9760	0.9760	0.0965	0.0965		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:41	36918	0.87	1.1230	0.4904	0.4904	0.1060	0.1060		
PCB-80	31:05						0.0899	0.0899		
PCB-79	32:37	15684	0.75	1.4368	0.1628	0.1628	0.0828	0.0828		M
PCB-78	33:09						0.1024	0.1024		
PCB-81	33:36						0.1118	0.1118		
PCB-77	34:10						0.1082	0.1082		
S Total Pentachlorobiphenyls					81.5	81.1	0.0474	0.0474		RQ
D PCB-104L	25:41	4715864	1.60	1.2161	91.8	91.8	0.0344	0.0344	91.79	
\$ PCB-95L	28:36	1155128	1.72	0.7218	33.9	33.9	0.0494	0.0494	102	
* PCB-101L	31:31	4224742	1.63		100.0	100.0				
\$ PCB-111L	34:12	5011114	1.61	1.3699	86.6	86.6	0.0306	0.0306	86.59	
D PCB-123L	36:08	6715181	1.56	0.9731	94.5	94.5	0.9540	0.9540	94.45	
D PCB-118L	36:28	6784074	1.58	1.0102	91.9	91.9	0.9190	0.9190	91.92	
D PCB-114L	37:00	6622090	1.60	0.9949	91.1	91.1	0.9331	0.9331	91.11	
D PCB-105L	37:38	6346347	1.60	0.9514	91.3	91.3	0.9757	0.9757	91.30	
* PCB-127L	39:07	7305735	1.59		100.0	100.0				
D PCB-126L	40:43	6319872	1.59	0.9439	91.7	91.7	0.9835	0.9835	91.65	
PCB-104	25:38						0.0380	0.0380		
PCB-96	26:01						0.0350	0.0350		
PCB-103	27:56						0.0438	0.0438		
PCB-94	28:10						0.0502	0.0502		
PCB-95	28:38	243210	1.46	0.8033	6.420	6.420	0.0477	0.0477		
PCB-93	28:49						0.0455	0.0455		
PCB-100 (C93)	28:49						0.0455	0.0455		
PCB-98	28:59	4077	1.55	0.8262	0.2219	0.1046	0.0464	0.0464		RQ
PCB-102 (C98)	28:59	4077	1.55	0.8262	0.2219	0.1046	0.0464	0.0464		RQ
PCB-88	29:28	37167	1.56	0.8013	0.9836	0.9836	0.0478	0.0478		
PCB-91 (C88)	29:28	37167	1.56	0.8013	0.9836	0.9836	0.0478	0.0478		
PCB-84	29:42	95752	1.44	0.7299	2.782	2.782	0.0525	0.0525		
PCB-89	30:10						0.0491	0.0491		
PCB-121	30:36	4841	1.75	1.2964	0.0792	0.0792	0.0296	0.0296		
PCB-92	30:59	58660	1.55	0.8546	1.606	1.456	0.0448	0.0448		RQ
PCB-90	31:33	518265	1.68	0.9550	11.5	11.5	0.0401	0.0401		
PCB-101 (C90)	31:33	518265	1.68	0.9550	11.5	11.5	0.0401	0.0401		
PCB-113 (C90)	31:33	518265	1.68	0.9550	11.5	11.5	0.0401	0.0401		
PCB-83	32:07	242723	1.50	0.8385	6.138	6.138	0.0457	0.0457		M
PCB-99 (C83)	32:07	242723	1.50	0.8385	6.138	6.138	0.0457	0.0457		M
PCB-112	32:13						0.0272	0.0272		
PCB-86	32:43	550827	1.63	1.0473	11.2	11.2	0.0366	0.0366		
PCB-87 (C86)	32:43	550827	1.63	1.0473	11.2	11.2	0.0366	0.0366		
PCB-97 (C86)	32:43	550827	1.63	1.0473	11.2	11.2	0.0366	0.0366		
PCB-109 (C86)	32:43	550827	1.63	1.0473	11.2	11.2	0.0366	0.0366		
PCB-119 (C86)	32:43	550827	1.63	1.0473	11.2	11.2	0.0366	0.0366		
PCB-125 (C86)	32:43	550827	1.63	1.0473	11.2	11.2	0.0366	0.0366		
PCB-85	33:20	134616	1.75	1.0408	2.743	2.743	0.0368	0.0368		M
PCB-116 (C85)	33:20	134616	1.75	1.0408	2.743	2.743	0.0368	0.0368		M
PCB-117 (C85)	33:20	134616	1.75	1.0408	2.743	2.743	0.0368	0.0368		M
PCB-110	33:30	874973	1.65	1.1919	15.6	15.6	0.0322	0.0322		a
PCB-115 (C110)	33:30	874973	1.65	1.1919	15.6	15.6	0.0322	0.0322		a
PCB-82	33:49	89127	1.62	0.8303	2.276	2.276	0.0462	0.0462		a
PCB-111	34:13						0.0316	0.0316		
PCB-120	34:41						0.0260	0.0260		
PCB-108	35:49	58587	1.53	1.1405	0.7834	0.7834	0.0600	0.0600		
PCB-124 (C108)	35:49	58587	1.53	1.1405	0.7834	0.7834	0.0600	0.0600		
PCB-107	36:02	81400	1.61	1.2121	1.024	1.024	0.0565	0.0565		Ma
PCB-123	36:10	16384	1.55	1.0722	0.2677	0.2275	0.0611	0.0611		RQMa
PCB-106	36:17						0.0632	0.0632		
PCB-118	36:30	1015772	1.56	1.2055	12.4	12.4	0.0545	0.0545		
PCB-122	36:51	16457	1.76	0.9567	0.2623	0.2623	0.0716	0.0716		
PCB-114	37:00	19418	1.55	1.0842	0.3404	0.2705	0.0639	0.0639		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:40	368024	1.56	1.1879	4.882	4.882	0.0595	0.0595		
PCB-127	39:09						0.0601	0.0601		
PCB-126	40:45						0.0653	0.0653		
S Total Hexachlorobiphenyls					64.7	64.2	0.0244	0.0244		RQ
D PCB-155L	31:18	4278916	1.30	1.0851	93.3	93.3	0.0520	0.0520	93.34	
\$ PCB-153L	38:20	1563738	1.33	0.9169	31.0	31.0	0.9344	0.9344	93.03	
* PCB-138L	39:35	5219674	1.29		100.0	100.0				
D PCB-167L	42:35	5640958	1.28	1.2572	86.0	86.0	0.6025	0.6025	85.96	
D PCB-156L	43:44	10957268	1.28	1.2106	173.4	173.4	0.6257	0.6257	86.70	
D PCB-157L (C156L)	43:44	10957268	1.28	1.2106	173.4	173.4	0.6257	0.6257	86.70	
D PCB-169L	46:57	5400630	1.28	1.2439	83.2	83.2	0.6090	0.6090	83.18	
PCB-155	31:18	1672	1.24	0.9444	0.0511	0.0414	0.004239	0.004239		RQ
PCB-152	31:30						0.004045	0.004045		
PCB-150	31:40						0.003951	0.003951		
PCB-136	32:02	48554	1.13	1.0116	1.122	1.122	0.003957	0.003957		
PCB-145	32:20						0.004133	0.004133		
PCB-148	33:50						0.005265	0.005265		
PCB-135	34:26	103934	1.26	0.7256	3.348	3.348	0.005517	0.005517		
PCB-151 (C135)	34:26	103934	1.26	0.7256	3.348	3.348	0.005517	0.005517		
PCB-154	34:38	3614	1.24	0.8129	0.1261	0.1039	0.004925	0.004925		RQM
PCB-144	34:59	16130	1.24	0.7852	0.5540	0.4801	0.005098	0.005098		RQM
PCB-147	35:21	527785	1.32	0.8950	10.7	10.7	0.0341	0.0341		
PCB-149 (C147)	35:21	527785	1.32	0.8950	10.7	10.7	0.0341	0.0341		
PCB-134	35:32	35457	1.24	0.7967	0.9556	0.8092	0.0383	0.0383		RQM
PCB-143 (C134)	35:32	35457	1.24	0.7967	0.9556	0.8092	0.0383	0.0383		RQM
PCB-139	35:55	16922	1.24	0.8769	0.3993	0.3509	0.0348	0.0348		RQ
PCB-140 (C139)	35:55	16922	1.24	0.8769	0.3993	0.3509	0.0348	0.0348		RQ
PCB-131	36:08	17082	1.24	0.7503	0.4695	0.4140	0.0406	0.0406		RQ
PCB-142	36:18						0.0406	0.0406		
PCB-132	36:36	309953	1.22	0.7489	7.525	7.525	0.0407	0.0407		
PCB-133	37:08	8155	1.24	0.8096	0.2643	0.1832	0.0376	0.0376		RQ
PCB-165	37:31						0.0297	0.0297		
PCB-146	37:45	104556	1.17	0.9637	1.973	1.973	0.0316	0.0316		
PCB-161	37:54						0.0270	0.0270		
PCB-153	38:22	657417	1.23	1.0938	10.9	10.9	0.0279	0.0279		
PCB-168 (C153)	38:22	657417	1.23	1.0938	10.9	10.9	0.0279	0.0279		
PCB-141	38:33	133336	1.22	0.8755	2.769	2.769	0.0348	0.0348		
PCB-130	38:58	47753	1.24	0.7051	1.353	1.231	0.0432	0.0432		RQ
PCB-137	39:11	60326	1.22	0.7767	1.412	1.412	0.0392	0.0392		
PCB-164	39:18	41643	1.13	1.0382	0.7293	0.7293	0.0294	0.0294		
PCB-129	39:36	808625	1.24	0.9464	15.5	15.5	0.0322	0.0322		
PCB-138 (C129)	39:36	808625	1.24	0.9464	15.5	15.5	0.0322	0.0322		
PCB-160 (C129)	39:36	808625	1.24	0.9464	15.5	15.5	0.0322	0.0322		
PCB-163 (C129)	39:36	808625	1.24	0.9464	15.5	15.5	0.0322	0.0322		
PCB-158	39:59	105482	1.34	1.3110	1.463	1.463	0.0232	0.0232		
PCB-128	40:52	114868	1.23	0.9829	2.125	2.125	0.0310	0.0310		
PCB-166 (C128)	40:52	114868	1.23	0.9829	2.125	2.125	0.0310	0.0310		
PCB-159	41:51						0.0220	0.0220		
PCB-162	42:08						0.0242	0.0242		
PCB-167	42:36	18205	1.33	1.1159	0.2892	0.2892	0.0225	0.0225		
PCB-156	43:44	37941	1.11	1.1104	0.6237	0.6237	0.0336	0.0336		
PCB-157 (C156)	43:44	37941	1.11	1.1104	0.6237	0.6237	0.0336	0.0336		
PCB-169	46:59						0.0227	0.0227		
S Total Heptachlorobiphenyls					3.410	3.138	0.001428	0.001428		RQ
D PCB-188L	37:00	4929268	1.08	1.3133	94.1	94.1	0.0513	0.0513	94.10	
\$ PCB-178L	40:03	3613943	1.04	1.0313	87.9	87.9	0.0653	0.0653	87.85	
* PCB-180L	45:07	3988645	1.08		100.0	100.0				
D PCB-170L	46:22	3106376	1.06	0.8362	93.1	93.1	0.0806	0.0806	93.13	
D PCB-189L	49:28	6572273	1.05	1.4414	88.7	88.7	0.4225	0.4225	88.69	
PCB-188	37:01						0.000466	0.000466		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:22	16845	1.15	1.4276	0.2937	0.2937	0.000457	0.000457		
PCB-184	37:51	100	1.05	1.3672	0.0143	0.001820	0.000477	0.000477		RQM
PCB-176	38:13	5531	1.05	1.2331	0.1386	0.1116	0.000529	0.000529		RQ
PCB-186	38:42						0.000443	0.000443		
PCB-178	40:05	2684	1.05	0.8946	0.1027	0.0747	0.000730	0.000730		RQ
PCB-175	40:39	1262	1.05	0.9524	0.0412	0.0330	0.000685	0.000685		RQM
PCB-187	40:59	19200	1.05	1.1018	0.4895	0.4337	0.000592	0.000592		RQ
PCB-182	41:11						0.000706	0.000706		
PCB-183	41:32	18321	0.96	0.9825	0.4641	0.4641	0.000664	0.000664		M
PCB-185 (C183)	41:32	18321	0.96	0.9825	0.4641	0.4641	0.000664	0.000664		M
PCB-174	41:49	19574	1.15	0.9642	0.5053	0.5053	0.000677	0.000677		M
PCB-177	42:16	8465	1.05	0.9773	0.2602	0.2156	0.000668	0.000668		RQ
PCB-181	42:38						0.000687	0.000687		
PCB-171	42:51	12037	1.03	0.9336	0.3209	0.3209	0.000699	0.000699		M
PCB-173 (C171)	42:51	12037	1.03	0.9336	0.3209	0.3209	0.000699	0.000699		M
PCB-172	44:31	1055	1.05	0.8519	0.0510	0.0308	0.000766	0.000766		RQM
PCB-192	44:46						0.000485	0.000485		
PCB-180	45:09	24292	0.90	1.1676	0.5178	0.5178	0.000559	0.000559		
PCB-193 (C180)	45:09	24292	0.90	1.1676	0.5178	0.5178	0.000559	0.000559		
PCB-191	45:30						0.000506	0.000506		
PCB-170	46:24	4225	1.05	1.1865	0.1799	0.1146	0.000717	0.000717		RQM
PCB-190	46:57	1099	1.05	1.3322	0.0312	0.0205	0.000490	0.000490		RQM
PCB-189	49:30						0.0180	0.0180		
S Total Octachlorobiphenyls					0.2035	0.1168	0.003632	0.003632		RQ
D PCB-202L	42:21	3582348	0.92	0.9818	91.5	91.5	0.0225	0.0225	91.48	
* PCB-194L	51:35	5141292	0.92		100.0	100.0				
D PCB-205L	52:03	5479492	0.90	1.1786	90.4	90.4	0.0994	0.0994	90.43	
PCB-202	42:23	405	0.89	1.0359	0.0209	0.0109	0.003155	0.003155		RQ
PCB-201	43:18						0.003350	0.003350		
PCB-204	43:58						0.003116	0.003116		
PCB-197	44:12						0.002852	0.002852		
PCB-200	44:19						0.003244	0.003244		
PCB-198	47:08	978	0.89	0.8698	0.0431	0.0314	0.003757	0.003757		RQ
PCB-199 (C198)	47:08	978	0.89	0.8698	0.0431	0.0314	0.003757	0.003757		RQ
PCB-196	47:42	320	0.89	0.7806	0.0337	0.0114	0.004186	0.004186		RQ
PCB-203	47:56	1603	0.89	0.9292	0.0735	0.0482	0.003517	0.003517		RQ
PCB-195	49:17						0.004899	0.004899		
PCB-194	51:36	796	0.89	0.9735	0.0322	0.0149	0.004158	0.004158		RQM
PCB-205	52:05						0.003722	0.003722		
S Total Nonachlorobiphenyls							0.3994	0.3994		
D PCB-208L	49:00	4904374	0.82	0.9576	99.6	99.6	0.3626	0.3626	99.62	
D PCB-206L	53:48	3588722	0.84	0.6947	100.5	100.5	0.4998	0.4998	100	
PCB-208	49:02						0.3283	0.3283		
PCB-207	49:58						0.3193	0.3193		
PCB-206	53:50						0.3994	0.3994		
D PCB-209L	55:25	3719051	0.72	0.6669	108.5	108.5	0.0676	0.0676	108	
DCB Decachlorobiphenyl	55:26	6198	0.69	1.1004	0.1720	0.1515	0.007877	0.007877		RQ
S Polychlorinated biphenyls, Total					313.7	0.1515	0.0820	0.0820		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

Chrom Revision: 2.3 20-May-2024 22:00:34

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Lims ID: 140-36689-A-2-C
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 17:06:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-010
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 01:10:38 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1669

First Level Reviewer: Q9DB

Date: 12-Jun-2024 01:10:38

Signal	RT (min.)	Adj RT (min.)	⏏ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:34	11:35	-1	0.724	4751941	1806335	992	2480	1821		
202.0766	11:33	11:35	-2	0.724	1539748	579831	5788	14470	100	3.09(2.66-3.60)	
PCB-3L											
200.0795	13:42	13:44	-1	0.859	5334502	1806591	992	2480	1821		
202.0766	13:42	13:44	-1	0.859	1693866	564571	5788	14470	98	3.15(2.66-3.60)	
PCB-1											
188.0393	11:34	11:33	-2	1.000	125716	49090	266	665	185		
190.0363	11:34	11:33	-2	1.000	45024	17411	250	625	70	2.79(2.66-3.60)	
PCB-2											
188.0393	13:32	13:32	-2	0.988	167379	58289	266	665	219		
190.0363	13:32	13:32	-2	0.988	51910	16768	250	625	67	3.22(2.66-3.60)	
PCB-3											
188.0393	13:43	13:42	-1	1.001	248628	80768	266	665	304		
190.0363	13:43	13:42	-1	1.001	78597	24800	250	625	99	3.16(2.66-3.60)	
PCB-4L											
234.0406	13:57	14:00	-2	0.875	1835951	610295	649	1622	940		
236.0376	13:57	14:00	-2	0.875	1159746	372631	216	540	1725	1.58(1.33-1.79)	
PCB-9L											
234.0406	15:57	15:56	2		4162402	928412	649	1622	1431		
236.0376	15:57	15:56	2		2637993	602114	216	540	2788	1.58(1.33-1.79)	
PCB-8L											
234.0406	16:51	16:50	5	1.208	630592	103463	649	1622	159		a
236.0376	16:51	16:50	5	1.208	402936	64704	216	540	300	1.56(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											a
234.0406	20:05	20:06	15	1.259	1700369	369066	649	1622	569		a
236.0376	20:06	20:06	16	1.260	1045460	228385	216	540	1057	1.63(1.33-1.79)	
PCB-4											
222.0003	13:58	13:58	-2	1.001	36737	10586	153	382	69		
223.9974	13:58	13:58	-2	1.001	24422	7656	186	465	41	1.50(1.33-1.79)	
PCB-10											
222.0003	14:08	14:07	-2	1.013	9986	3219	153	382	21		
223.9974	14:08	14:07	-2	1.013	6315	1642	186	465	9	1.58(1.33-1.79)	
PCB-9											a
222.0003	15:59	15:54	2	1.145	38983	8942	153	382	58		a
223.9974	15:58	15:54	1	1.144	24142	4869	186	465	26	1.61(1.33-1.79)	
PCB-7											
222.0003	16:07	16:07	1	1.156	45384	9563	153	382	63		
223.9974	16:07	16:07	1	1.156	25431	5454	186	465	29	1.78(1.33-1.79)	
PCB-6											a
222.0003	16:24	16:24	2	1.175	68496	12330	153	382	81		a
223.9974	16:25	16:24	3	1.176	41780	7465	186	465	40	1.64(1.33-1.79)	
PCB-5											RQa
222.0003	16:40	16:52	0	1.194	4180	1310	153	382	9		a
223.9974	16:41	16:52	2	1.196	4772	1158	186	465	6	0.88(1.33-1.79)	
Empc Correction					2679	839	186	465	5		
PCB-8											a
222.0003	16:52	16:54	5	1.208	227560	37042	153	382	242		a
223.9974	16:51	16:54	4	1.208	138637	21618	186	465	116	1.64(1.33-1.79)	
PCB-14											
222.0003	18:39						153	382			
223.9974	18:39						186	465			
PCB-11											a
222.0003	19:29	19:30	15	0.971	1116688	224626	153	382	1468		a
223.9974	19:29	19:30	15	0.971	697800	141851	186	465	763	1.60(1.33-1.79)	
PCB-12											U
222.0003	19:30						153	382			
223.9974	19:30						186	465			
PCB-13 (C12)											U
222.0003	19:30						153	382			
223.9974	19:30						186	465			
PCB-15											M
222.0003	20:06	20:07	15	1.001	41491	7970	153	382	52		M
223.9974	20:06	20:07	15	1.001	23986	5306	186	465	29	1.73(1.33-1.79)	M
PCB-19L											
268.0016	17:10	17:15	6	0.836	825558	153688	1032	2580	149		
269.9986	17:10	17:15	6	0.836	793209	148782	572	1430	260	1.04(0.88-1.20)	
PCB-32L											
268.0016	20:31	20:18	13		1847904	420210	1032	2580	407		
269.9986	20:31	20:18	13		1700100	398836	572	1430	697	1.09(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:40	22:34	6		6532118	1508718	860	2150	1754		
269.9986	22:40	22:34	6		6299477	1441736	648	1620	2225	1.04(0.88-1.20)	
PCB-28L											
268.0016	22:57	22:56	6	1.012	5642811	1276353	860	2150	1484		
269.9986	22:57	22:56	6	1.012	5426631	1209996	648	1620	1867	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:53	26:56	2	1.186	4622161	999994	860	2150	1163		
269.9986	26:53	26:56	2	1.186	4400550	949461	648	1620	1465	1.05(0.88-1.20)	
PCB-19											
255.9613	17:10	17:13	5	1.000	6027	1334	78	195	17		RQ
257.9584	17:10	17:13	5	1.000	7573	1534	44	110	35	0.80(0.88-1.20)	
Empc Correction					5795	1282	44	110	29		
PCB-18											
255.9613	19:10	19:00	16	1.117	45976	4193	78	195	54		M
257.9584	19:12	19:00	17	1.119	46029	5412	44	110	123	1.00(0.88-1.20)	M
PCB-30 (C18)											
255.9613	19:10	19:00	16	1.117	45976	4193	78	195	54		M
257.9584	19:12	19:00	17	1.119	46029	5412	44	110	123	1.00(0.88-1.20)	M
PCB-17											
255.9613	19:36	19:27	15	1.143	47327	11031	78	195	141		Ma
257.9584	19:36	19:27	15	1.143	46922	10501	44	110	239	1.01(0.88-1.20)	a
PCB-27											
255.9613	19:36						78	195			
257.9584	19:36						44	110			
PCB-24											
255.9613	19:50						78	195			
257.9584	19:50						44	110			
PCB-16											
255.9613	19:57	19:55	8	1.162	1761	941	78	195	12		RQ
257.9584	19:55	19:55	6	1.161	2553	1205	44	110	27	0.69(0.88-1.20)	
Empc Correction					1693	904	44	110	21		
PCB-32											
255.9613	20:32	20:31	13	1.196	43686	11350	78	195	146		a
257.9584	20:32	20:31	13	1.196	43117	9293	44	110	211	1.01(0.88-1.20)	a
PCB-34											
255.9613	21:41						356	890			
257.9584	21:41						228	570			
PCB-23											
255.9613	21:50						356	890			
257.9584	21:50						228	570			
PCB-26											
255.9613	22:09	22:09	7	1.291	75669	17594	356	890	49		RQ
257.9584	22:09	22:09	7	1.291	90202	20267	228	570	89	0.84(0.88-1.20)	
Empc Correction					72758	16917	228	570	74		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											RQ
255.9613	22:09	22:09	7	1.291	75669	17594	356	890	49		
257.9584	22:09	22:09	7	1.291	90202	20267	228	570	89	0.84(0.88-1.20)	
Empc Correction					72758	16917	228	570	74		
PCB-25											a
255.9613	22:23	22:22	7	0.833	52227	10998	356	890	31		a
257.9584	22:22	22:22	5	0.832	55215	11664	228	570	51	0.95(0.88-1.20)	
PCB-31											a
255.9613	22:42	22:42	7	0.844	418316	97182	356	890	273		a
257.9584	22:41	22:42	6	0.844	416078	93582	228	570	410	1.01(0.88-1.20)	
PCB-20											
255.9613	22:58	22:57	5	0.854	397439	86100	356	890	242		
257.9584	22:58	22:57	5	0.854	407463	83501	228	570	366	0.98(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:58	22:57	5	0.854	397439	86100	356	890	242		
257.9584	22:58	22:57	5	0.854	407463	83501	228	570	366	0.98(0.88-1.20)	
PCB-21											a
255.9613	23:12	23:12	9	0.863	260433	56076	356	890	158		a
257.9584	23:12	23:12	9	0.863	267039	55833	228	570	245	0.98(0.88-1.20)	
PCB-33 (C21)											a
255.9613	23:12	23:12	9	0.863	260433	56076	356	890	158		a
257.9584	23:12	23:12	9	0.863	267039	55833	228	570	245	0.98(0.88-1.20)	
PCB-22											a
255.9613	23:35	23:35	5	0.878	147053	35156	356	890	99		a
257.9584	23:35	23:35	5	0.878	143494	29070	228	570	128	1.02(0.88-1.20)	
PCB-36											RQ
255.9613	25:08	25:05	4	0.935	5199	1448	356	890	4		
257.9584	25:07	25:05	3	0.934	8920	1715	228	570	8	0.58(0.88-1.20)	
Empc Correction					4999	1392	228	570	6		
PCB-39											
255.9613	25:26						356	890			
257.9584	25:26						228	570			
PCB-38											
255.9613	26:01						356	890			
257.9584	26:01						228	570			
PCB-35											
255.9613	26:30	26:29	2	0.986	29424	6063	356	890	17		
257.9584	26:30	26:29	2	0.986	27147	5979	228	570	26	1.08(0.88-1.20)	
PCB-37											
255.9613	26:54	26:54	2	1.001	42438	8491	356	890	24		
257.9584	26:54	26:54	2	1.001	43250	8559	228	570	38	0.98(0.88-1.20)	
PCB-54L											a
301.9626	20:22	20:23	14	0.823	667577	144057	126	315	1143		a
303.9597	20:22	20:23	14	0.823	821117	181082	13	32	13929	0.81(0.65-0.89)	
PCB-52L											
301.9626	24:44	24:41	3		2776823	627111	404	1010	1552		
303.9597	24:44	24:41	3		3492372	781188	624	1560	1252	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-79L											
301.9626	32:36	32:33	1	0.971	967965	195951	404	1010	485		
303.9597	32:35	32:33	0	0.970	1262014	259757	624	1560	416	0.77(0.65-0.89)	
PCB-81L											
301.9626	33:35	33:38	0	1.357	2890156	578660	404	1010	1432		
303.9597	33:35	33:38	0	1.357	3564620	710186	624	1560	1138	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:08	34:11	-1	1.380	3123418	591052	404	1010	1463		
303.9597	34:09	34:11	0	1.380	3828768	737031	624	1560	1181	0.82(0.65-0.89)	
PCB-54											
289.9224	20:10						4	10			
291.9194	20:10						34	85			
PCB-50											
289.9224	22:25	22:36	5	1.100	27722	6930	153	382	45		a
291.9194	22:24	22:36	5	1.100	31465	6126	470	1175	13	0.88(0.65-0.89)	a
PCB-53 (C50)											
289.9224	22:25	22:36	5	1.100	27722	6930	153	382	45		a
291.9194	22:24	22:36	5	1.100	31465	6126	470	1175	13	0.88(0.65-0.89)	a
PCB-45											
289.9224	23:09	23:08	6	1.137	130338	23463	153	382	153		M
291.9194	23:09	23:08	5	1.136	171185	31545	470	1175	67	0.76(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:09	23:08	6	1.137	130338	23463	153	382	153		M
291.9194	23:09	23:08	5	1.136	171185	31545	470	1175	67	0.76(0.65-0.89)	M
PCB-46											
289.9224	23:23	23:35	5	1.148	8203	2113	153	382	14		a
291.9194	23:22	23:35	5	1.147	9582	2953	470	1175	6	0.86(0.65-0.89)	a
PCB-52											
289.9224	24:46	24:42	4	1.216	200117	44640	153	382	292		a
291.9194	24:46	24:42	4	1.216	250171	57438	470	1175	122	0.80(0.65-0.89)	a
PCB-43											
289.9224	25:09						153	382			
291.9194	25:09						470	1175			
PCB-73 (C43)											
289.9224	25:09						153	382			
291.9194	25:09						470	1175			
PCB-49											
289.9224	25:15	25:14	7	1.240	100224	21420	153	382	140		a
291.9194	25:14	25:14	6	1.239	122796	27562	470	1175	59	0.82(0.65-0.89)	a
PCB-69 (C49)											
289.9224	25:15	25:14	7	1.240	100224	21420	153	382	140		a
291.9194	25:14	25:14	6	1.239	122796	27562	470	1175	59	0.82(0.65-0.89)	a
PCB-48											
289.9224	25:31	25:31	3	1.253	37529	8231	153	382	54		RQa
	Empc Correction				31022	7029	153	382	46		a
291.9194	25:31	25:31	3	1.253	40289	9129	470	1175	19	0.93(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	ℓ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-44											
289.9224	25:47	25:43	4	1.266	610786	110779	153	382	724	0.81(0.65-0.89)	
291.9194	25:47	25:43	5	1.266	755813	148012	470	1175	315		
PCB-47 (C44)											
289.9224	25:47	25:43	4	1.266	610786	110779	153	382	724	0.81(0.65-0.89)	
291.9194	25:47	25:43	5	1.266	755813	148012	470	1175	315		
PCB-65 (C44)											
289.9224	25:47	25:43	4	1.266	610786	110779	153	382	724	0.81(0.65-0.89)	
291.9194	25:47	25:43	5	1.266	755813	148012	470	1175	315		
PCB-59											
289.9224	26:04	26:04	3	1.280	15354	2459	153	382	16	0.79(0.65-0.89)	Ma
291.9194	26:04	26:04	2	1.279	19331	3877	470	1175	8		M
PCB-62 (C59)											
289.9224	26:04	26:04	3	1.280	15354	2459	153	382	16	0.79(0.65-0.89)	Ma
291.9194	26:04	26:04	2	1.279	19331	3877	470	1175	8		M
PCB-75 (C59)											
289.9224	26:04	26:04	3	1.280	15354	2459	153	382	16	0.79(0.65-0.89)	Ma
291.9194	26:04	26:04	2	1.279	19331	3877	470	1175	8		M
PCB-42											
289.9224	26:16	26:15	2	1.289	24156	4633	153	382	30	0.66(0.65-0.89)	M
291.9194	26:15	26:15	2	1.289	36730	7242	470	1175	15		
PCB-40											
289.9224	26:46	26:42	2	1.314	59614	10207	153	382	67	0.64(0.65-0.89)	RQM
291.9194	26:46	26:42	2	1.314	92652	13179	470	1175	28		M
	Empc Correction				77420	13255	470	1175	28		
PCB-41 (C40)											
289.9224	26:46	26:42	2	1.314	59614	10207	153	382	67	0.64(0.65-0.89)	RQM
291.9194	26:46	26:42	2	1.314	92652	13179	470	1175	28		M
	Empc Correction				77420	13255	470	1175	28		
PCB-71 (C40)											
289.9224	26:46	26:42	2	1.314	59614	10207	153	382	67	0.64(0.65-0.89)	RQM
291.9194	26:46	26:42	2	1.314	92652	13179	470	1175	28		M
	Empc Correction				77420	13255	470	1175	28		
PCB-64											
289.9224	26:58	26:57	2	1.324	60490	14474	153	382	95	0.76(0.65-0.89)	
291.9194	26:58	26:57	2	1.324	79307	16820	470	1175	36		
PCB-72											
289.9224	27:44						153	382			
291.9194	27:44						470	1175			
PCB-68											
289.9224	28:05	28:03	2	0.836	112706	24604	153	382	161	0.87(0.65-0.89)	
291.9194	28:05	28:03	2	0.836	129717	27289	470	1175	58		
PCB-57											
289.9224	28:26						153	382			
291.9194	28:26						470	1175			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-58											
289.9224	28:41						153	382			
291.9194	28:41						470	1175			
PCB-67											
289.9224	28:51						153	382			
291.9194	28:51						470	1175			
PCB-63											
289.9224	29:07						153	382			
291.9194	29:07						470	1175			
PCB-61											
289.9224	29:29	29:27	1	0.878	211274	35965	153	382	235		
291.9194	29:29	29:27	1	0.878	251651	42019	470	1175	89	0.84(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:29	29:27	1	0.878	211274	35965	153	382	235		
291.9194	29:29	29:27	1	0.878	251651	42019	470	1175	89	0.84(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:29	29:27	1	0.878	211274	35965	153	382	235		
291.9194	29:29	29:27	1	0.878	251651	42019	470	1175	89	0.84(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:29	29:27	1	0.878	211274	35965	153	382	235		
291.9194	29:29	29:27	1	0.878	251651	42019	470	1175	89	0.84(0.65-0.89)	
PCB-66											
289.9224	29:48	29:49	1	0.888	75080	13145	153	382	86		
291.9194	29:48	29:49	1	0.888	91244	17491	470	1175	37	0.82(0.65-0.89)	
PCB-55											
289.9224	29:56						153	382			
291.9194	29:56						470	1175			
PCB-56											
289.9224	30:29	30:27	1	0.908	36136	8211	153	382	54		
291.9194	30:28	30:27	0	0.907	44562	8602	470	1175	18	0.81(0.65-0.89)	
PCB-60											
289.9224	30:41	30:39	0	0.914	17166	3542	153	382	23		
291.9194	30:42	30:39	2	0.914	19752	4184	470	1175	9	0.87(0.65-0.89)	
PCB-80											
289.9224	31:03						153	382			
291.9194	31:03						470	1175			
PCB-79											
289.9224	32:37	32:35	1	0.971	6735	1564	153	382	10		M
291.9194	32:38	32:35	2	0.972	8949	1896	470	1175	4	0.75(0.65-0.89)	M
PCB-78											
289.9224	33:08						153	382			
291.9194	33:08						470	1175			
PCB-81											
289.9224	33:34						153	382			
291.9194	33:34						470	1175			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-77											
289.9224	34:08						153	382			
291.9194	34:08						470	1175			
PCB-104L											
337.9207	25:41	25:37	3	0.814	2899938	627702	111	277	5655		
339.9178	25:41	25:37	3	0.814	1815926	395212	35	87	11292	1.60(1.32-1.78)	
PCB-95L											
337.9207	28:36	28:38	1	1.114	730276	161754	111	277	1457		
339.9178	28:36	28:38	1	1.114	424852	88094	35	87	2517	1.72(1.32-1.78)	
PCB-101L											
337.9207	31:31	31:31	0		2616702	542017	111	277	4883		
339.9178	31:31	31:31	0		1608040	329282	35	87	9408	1.63(1.32-1.78)	
PCB-111L											
337.9207	34:12	34:11	0	1.085	3093695	609992	111	277	5495		
339.9178	34:12	34:11	0	1.085	1917419	382776	35	87	10936	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:08	36:08	0	1.146	4091222	810590	3425	8562	237		
339.9178	36:08	36:08	0	1.146	2623959	526076	1842	4605	286	1.56(1.32-1.78)	
PCB-118L											
337.9207	36:28	36:27	0	1.157	4153431	817913	3425	8562	239		
339.9178	36:28	36:27	0	1.157	2630643	514563	1842	4605	279	1.58(1.32-1.78)	
PCB-114L											
337.9207	37:00	36:59	0	1.174	4079272	771898	3425	8562	225		
339.9178	37:00	36:59	0	1.174	2542818	490189	1842	4605	266	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:38	37:37	0	1.194	3903739	759473	3425	8562	222		
339.9178	37:38	37:37	0	1.194	2442608	478816	1842	4605	260	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:07	39:07	0		4479790	877900	3425	8562	256		
339.9178	39:07	39:07	0		2825945	540446	1842	4605	293	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:43	40:43	-1	1.292	3881262	749247	3425	8562	219		
339.9178	40:43	40:43	-1	1.292	2438610	471275	1842	4605	256	1.59(1.32-1.78)	
PCB-104											
325.8804	25:40						94	235			
327.8775	25:40						63	157			
PCB-96											
325.8804	26:03						94	235			
327.8775	26:03						63	157			
PCB-103											
325.8804	27:59						94	235			
327.8775	27:59						63	157			
PCB-94											
325.8804	28:12						94	235			
327.8775	28:12						63	157			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95											
325.8804	28:38	28:34	2	1.115	144444	30835	94	235	328		
327.8775	28:37	28:34	1	1.115	98766	20545	63	157	326	1.46(1.32-1.78)	
PCB-93											
325.8804	28:52						94	235			
327.8775	28:52						63	157			
PCB-100 (C93)											
325.8804	28:52						94	235			
327.8775	28:52						63	157			
PCB-98											
325.8804	28:59	28:57	1	1.129	7047	1682	94	235	18		RQ
	Empc Correction				2478	554	94	235	6		
327.8775	28:59	28:57	0	1.129	1599	358	63	157	6	4.41(1.32-1.78)	
PCB-102 (C98)											
325.8804	28:59	28:57	1	1.129	7047	1682	94	235	18		RQ
	Empc Correction				2478	554	94	235	6		
327.8775	28:59	28:57	0	1.129	1599	358	63	157	6	4.41(1.32-1.78)	
PCB-88											
325.8804	29:28	29:31	0	1.148	22632	4751	94	235	51		
327.8775	29:28	29:31	0	1.148	14535	3278	63	157	52	1.56(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:28	29:31	0	1.148	22632	4751	94	235	51		
327.8775	29:28	29:31	0	1.148	14535	3278	63	157	52	1.56(1.32-1.78)	
PCB-84											
325.8804	29:42	29:44	1	1.157	56588	12612	94	235	134		
327.8775	29:42	29:44	1	1.157	39164	7893	63	157	125	1.44(1.32-1.78)	
PCB-89											
325.8804	30:12						94	235			
327.8775	30:12						63	157			
PCB-121											
325.8804	30:36	30:37	2	1.192	3081	723	94	235	8		
327.8775	30:37	30:37	2	1.192	1760	387	63	157	6	1.75(1.32-1.78)	
PCB-92											
325.8804	30:59	30:56	2	0.857	41722	7584	94	235	81		RQ
	Empc Correction				35656	8346	94	235	89		
327.8775	30:58	30:56	0	0.857	23004	5385	63	157	85	1.81(1.32-1.78)	
PCB-90											
325.8804	31:33	31:34	2	1.229	325045	66433	94	235	707		
327.8775	31:34	31:34	2	1.229	193220	37351	63	157	593	1.68(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:33	31:34	2	1.229	325045	66433	94	235	707		
327.8775	31:34	31:34	2	1.229	193220	37351	63	157	593	1.68(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:33	31:34	2	1.229	325045	66433	94	235	707		
327.8775	31:34	31:34	2	1.229	193220	37351	63	157	593	1.68(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-83											M
325.8804	32:07	32:09	0	1.251	145461	26374	94	235	281		M
327.8775	32:07	32:09	0	1.251	97262	17139	63	157	272	1.50(1.32-1.78)	M
PCB-99 (C83)											M
325.8804	32:07	32:09	0	1.251	145461	26374	94	235	281		M
327.8775	32:07	32:09	0	1.251	97262	17139	63	157	272	1.50(1.32-1.78)	M
PCB-112											
325.8804	32:16						94	235			
327.8775	32:16						63	157			
PCB-86											
325.8804	32:43	32:38	6	1.274	341259	42240	94	235	449		
327.8775	32:44	32:38	7	1.275	209568	27454	63	157	436	1.63(1.32-1.78)	
PCB-87 (C86)											
325.8804	32:43	32:38	6	1.274	341259	42240	94	235	449		
327.8775	32:44	32:38	7	1.275	209568	27454	63	157	436	1.63(1.32-1.78)	
PCB-97 (C86)											
325.8804	32:43	32:38	6	1.274	341259	42240	94	235	449		
327.8775	32:44	32:38	7	1.275	209568	27454	63	157	436	1.63(1.32-1.78)	
PCB-109 (C86)											
325.8804	32:43	32:38	6	1.274	341259	42240	94	235	449		
327.8775	32:44	32:38	7	1.275	209568	27454	63	157	436	1.63(1.32-1.78)	
PCB-119 (C86)											
325.8804	32:43	32:38	6	1.274	341259	42240	94	235	449		
327.8775	32:44	32:38	7	1.275	209568	27454	63	157	436	1.63(1.32-1.78)	
PCB-125 (C86)											
325.8804	32:43	32:38	6	1.274	341259	42240	94	235	449		
327.8775	32:44	32:38	7	1.275	209568	27454	63	157	436	1.63(1.32-1.78)	
PCB-85											M
325.8804	33:20	33:22	1	1.299	85581	15007	94	235	160		M
327.8775	33:20	33:22	1	1.299	49035	8570	63	157	136	1.75(1.32-1.78)	
PCB-116 (C85)											M
325.8804	33:20	33:22	1	1.299	85581	15007	94	235	160		M
327.8775	33:20	33:22	1	1.299	49035	8570	63	157	136	1.75(1.32-1.78)	
PCB-117 (C85)											M
325.8804	33:20	33:22	1	1.299	85581	15007	94	235	160		M
327.8775	33:20	33:22	1	1.299	49035	8570	63	157	136	1.75(1.32-1.78)	
PCB-110											a
325.8804	33:30	33:30	-1	1.305	545020	106287	94	235	1131		a
327.8775	33:30	33:30	-1	1.305	329953	61440	63	157	975	1.65(1.32-1.78)	
PCB-115 (C110)											a
325.8804	33:30	33:30	-1	1.305	545020	106287	94	235	1131		a
327.8775	33:30	33:30	-1	1.305	329953	61440	63	157	975	1.65(1.32-1.78)	
PCB-82											a
325.8804	33:49	33:47	-1	1.317	55167	10095	94	235	107		a
327.8775	33:49	33:47	-1	1.317	33960	7412	63	157	118	1.62(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-111											
325.8804	34:16						94	235			
327.8775	34:16						63	157			
PCB-120											
325.8804	34:44						94	235			
327.8775	34:44						63	157			
PCB-108											
325.8804	35:49	35:52	0	1.395	35466	7175	218	545	33		
327.8775	35:48	35:52	-1	1.394	23121	5124	132	330	39	1.53(1.32-1.78)	
PCB-124 (C108)											
325.8804	35:49	35:52	0	1.395	35466	7175	218	545	33		
327.8775	35:48	35:52	-1	1.394	23121	5124	132	330	39	1.53(1.32-1.78)	
PCB-107											
325.8804	36:02	36:06	-1	1.404	50247	8966	218	545	41		Ma
327.8775	36:04	36:06	1	1.405	31153	6288	132	330	48	1.61(1.32-1.78)	M
PCB-123											
325.8804	36:10	36:09	0	1.001	9959	2574	218	545	12		RQMa
327.8775	36:09	36:09	-1	1.000	9313	2488	132	330	19	1.07(1.32-1.78)	M
Empc Correction					6425	1660	132	330	13		
PCB-106											
325.8804	36:16						218	545			
327.8775	36:16						132	330			
PCB-118											
325.8804	36:30	36:27	0	1.001	618980	115565	218	545	530		
327.8775	36:30	36:27	0	1.001	396792	73222	132	330	555	1.56(1.32-1.78)	
PCB-122											
325.8804	36:51	36:48	1	1.010	10496	1564	218	545	7		
327.8775	36:52	36:48	1	1.011	5961	1378	132	330	10	1.76(1.32-1.78)	
PCB-114											
325.8804	37:00	36:58	0	1.000	16824	3346	218	545	15		RQ
Empc Correction					11803	2414	218	545	11		
327.8775	37:01	36:58	1	1.001	7615	1558	132	330	12	2.21(1.32-1.78)	
PCB-105											
325.8804	37:40	37:38	0	1.001	224394	41422	218	545	190		
327.8775	37:40	37:38	0	1.001	143630	28143	132	330	213	1.56(1.32-1.78)	
PCB-127											
325.8804	39:06						218	545			
327.8775	39:06						132	330			
PCB-126											
325.8804	40:42						218	545			
327.8775	40:42						132	330			
PCB-155L											
371.8817	31:18	31:15	1	0.790	2418961	490099	137	342	3577		
373.8788	31:18	31:15	1	0.790	1859955	384232	60	150	6404	1.30(1.05-1.43)	
PCB-153L											
371.8817	38:20	38:18	0	0.900	893177	171380	1734	4335	99		
373.8788	38:20	38:18	0	0.900	670561	131321	1302	3255	101	1.33(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-138L											
371.8817	39:35	39:35	0		2939854	568730	1734	4335	328		
373.8788	39:35	39:35	0		2279820	433315	1302	3255	333	1.29(1.05-1.43)	
PCB-167L											
371.8817	42:35	42:33	0	1.076	3170900	608577	1734	4335	351		
373.8788	42:35	42:33	0	1.076	2470058	464733	1302	3255	357	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:44	43:41	0	1.105	6145408	810025	1734	4335	467		
373.8788	43:44	43:41	0	1.105	4811860	636650	1302	3255	489	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:44	43:41	0	1.105	6145408	810025	1734	4335	467		
373.8788	43:44	43:41	0	1.105	4811860	636650	1302	3255	489	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:57	46:55	-1	1.186	3033252	572008	1734	4335	330		
373.8788	46:57	46:55	-1	1.186	2367378	451396	1302	3255	347	1.28(1.05-1.43)	
PCB-155											
359.8415	31:18	31:17	-1	1.000	926	294	3	7	98		RQ
361.8385	31:18	31:17	0	1.000	1137	379	11	27	34	0.81(1.05-1.43)	
	Empc Correction				746	237	11	27	22		
PCB-152											
359.8415	31:29						3	7			
361.8385	31:29						11	27			
PCB-150											
359.8415	31:39						3	7			
361.8385	31:39						11	27			
PCB-136											
359.8415	32:02	32:01	0	1.024	25741	6069	3	7	2023		
361.8385	32:03	32:01	1	1.024	22813	4229	11	27	384	1.13(1.05-1.43)	
PCB-145											
359.8415	32:19						3	7			
361.8385	32:19						11	27			
PCB-148											
359.8415	33:49						3	7			
361.8385	33:49						11	27			
PCB-135											
359.8415	34:26	34:24	0	1.100	57890	7737	3	7	2579		
361.8385	34:26	34:24	1	1.101	46044	6377	11	27	580	1.26(1.05-1.43)	
PCB-151 (C135)											
359.8415	34:26	34:24	0	1.100	57890	7737	3	7	2579		
361.8385	34:26	34:24	1	1.101	46044	6377	11	27	580	1.26(1.05-1.43)	
PCB-154											
359.8415	34:38	34:40	-3	1.107	2001	379	3	7	126		RQM
361.8385	34:42	34:40	2	1.109	2384	666	11	27	61	0.84(1.05-1.43)	M
	Empc Correction				1613	305	11	27	28		
PCB-144											
359.8415	34:59	34:58	0	1.118	11414	2227	3	7	742		RQM
	Empc Correction				8929	1858	3	7	619		
361.8385	35:00	34:58	1	1.119	7201	1499	11	27	136	1.59(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-147											
359.8415	35:21	35:18	1	1.130	300104	56470	57	142	991		
361.8385	35:21	35:18	1	1.130	227681	44913	51	127	881	1.32(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:21	35:18	1	1.130	300104	56470	57	142	991		
361.8385	35:21	35:18	1	1.130	227681	44913	51	127	881	1.32(1.05-1.43)	
PCB-134											
359.8415	35:32	35:38	-7	1.136	19628	4100	57	142	72		RQM
361.8385	35:33	35:38	-7	1.136	22241	4469	51	127	88	0.88(1.05-1.43)	M
Empc Correction					15829	3306	51	127	65		
PCB-143 (C134)											
359.8415	35:32	35:38	-7	1.136	19628	4100	57	142	72		RQM
361.8385	35:33	35:38	-7	1.136	22241	4469	51	127	88	0.88(1.05-1.43)	M
Empc Correction					15829	3306	51	127	65		
PCB-139											
359.8415	35:55	35:56	-2	1.148	9368	1752	57	142	31		RQ
361.8385	35:57	35:56	0	1.149	9887	2077	51	127	41	0.95(1.05-1.43)	
Empc Correction					7554	1412	51	127	28		
PCB-140 (C139)											
359.8415	35:55	35:56	-2	1.148	9368	1752	57	142	31		RQ
361.8385	35:57	35:56	0	1.149	9887	2077	51	127	41	0.95(1.05-1.43)	
Empc Correction					7554	1412	51	127	28		
PCB-131											
359.8415	36:08	36:08	-1	1.155	11749	2300	57	142	40		RQ
Empc Correction					9456	2282	57	142	40		
361.8385	36:09	36:08	0	1.155	7626	1841	51	127	36	1.54(1.05-1.43)	
PCB-142											
359.8415	36:17						57	142			
361.8385	36:17						51	127			
PCB-132											
359.8415	36:36	36:39	-1	1.170	170407	33781	57	142	593		
361.8385	36:37	36:39	0	1.170	139546	29011	51	127	569	1.22(1.05-1.43)	
PCB-133											
359.8415	37:08	37:06	1	1.186	8125	1723	57	142	30		RQ
Empc Correction					4514	1966	57	142	34		
361.8385	37:08	37:06	1	1.187	3641	1586	51	127	31	2.23(1.05-1.43)	
PCB-165											
359.8415	37:28						57	142			
361.8385	37:28						51	127			
PCB-146											
359.8415	37:45	37:42	0	0.887	56317	11129	57	142	195		
361.8385	37:45	37:42	0	0.887	48239	9580	51	127	188	1.17(1.05-1.43)	
PCB-161											
359.8415	37:51						57	142			
361.8385	37:51						51	127			
PCB-153											
359.8415	38:22	38:19	-2	0.901	362354	73749	57	142	1294		
361.8385	38:22	38:19	-2	0.901	295063	58167	51	127	1141	1.23(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-168 (C153)											
359.8415	38:22	38:19	-2	0.901	362354	73749	57	142	1294		
361.8385	38:22	38:19	-2	0.901	295063	58167	51	127	1141	1.23(1.05-1.43)	
PCB-141											
359.8415	38:33	38:31	0	0.905	73180	14125	57	142	248		
361.8385	38:33	38:31	0	0.905	60156	13344	51	127	262	1.22(1.05-1.43)	
PCB-130											
359.8415	38:58	38:56	0	0.915	26435	6003	57	142	105		RQ
361.8385	38:58	38:56	0	0.915	26016	4750	51	127	93	1.02(1.05-1.43)	
Empc Correction					21318	4841	51	127	95		
PCB-137											
359.8415	39:11	39:10	-1	0.920	33101	7062	57	142	124		
361.8385	39:11	39:10	-1	0.920	27225	5510	51	127	108	1.22(1.05-1.43)	
PCB-164											
359.8415	39:18	39:16	0	0.923	22086	3797	57	142	67		
361.8385	39:18	39:16	-1	0.923	19557	4046	51	127	79	1.13(1.05-1.43)	
PCB-129											
359.8415	39:36	39:34	-2	0.930	446873	81777	57	142	1435		
361.8385	39:37	39:34	-1	0.930	361752	66345	51	127	1301	1.24(1.05-1.43)	
PCB-138 (C129)											
359.8415	39:36	39:34	-2	0.930	446873	81777	57	142	1435		
361.8385	39:37	39:34	-1	0.930	361752	66345	51	127	1301	1.24(1.05-1.43)	
PCB-160 (C129)											
359.8415	39:36	39:34	-2	0.930	446873	81777	57	142	1435		
361.8385	39:37	39:34	-1	0.930	361752	66345	51	127	1301	1.24(1.05-1.43)	
PCB-163 (C129)											
359.8415	39:36	39:34	-2	0.930	446873	81777	57	142	1435		
361.8385	39:37	39:34	-1	0.930	361752	66345	51	127	1301	1.24(1.05-1.43)	
PCB-158											
359.8415	39:59	39:57	0	0.939	60322	11398	57	142	200		
361.8385	40:00	39:57	0	0.939	45160	9635	51	127	189	1.34(1.05-1.43)	
PCB-128											
359.8415	40:52	40:49	1	0.960	63351	11256	57	142	197		
361.8385	40:51	40:49	0	0.959	51517	8909	51	127	175	1.23(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:52	40:49	1	0.960	63351	11256	57	142	197		
361.8385	40:51	40:49	0	0.959	51517	8909	51	127	175	1.23(1.05-1.43)	
PCB-159											
359.8415	41:48						57	142			
361.8385	41:48						51	127			
PCB-162											
359.8415	42:06						57	142			
361.8385	42:06						51	127			
PCB-167											
359.8415	42:36	42:34	0	1.001	10386	2599	57	142	46		
361.8385	42:34	42:34	-3	1.000	7819	1366	51	127	27	1.33(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156											
359.8415	43:44	43:44	-3	1.000	19937	3185	57	142	56	1.11(1.05-1.43)	
361.8385	43:44	43:44	-2	1.000	18004	3618	51	127	71		
PCB-157 (C156)											
359.8415	43:44	43:44	-3	1.000	19937	3185	57	142	56	1.11(1.05-1.43)	
361.8385	43:44	43:44	-2	1.000	18004	3618	51	127	71		
PCB-169											
359.8415	46:56						57	142			
361.8385	46:56						51	127			
PCB-188L											
405.8428	37:00	36:58	0	0.820	2554003	494221	140	350	3530	1.08(0.89-1.21)	
407.8398	36:59	36:58	-1	0.820	2375265	450262	64	160	7035		
PCB-178L											
405.8428	40:03	40:01	0	0.887	1843306	351078	140	350	2508	1.04(0.89-1.21)	
407.8398	40:03	40:01	0	0.887	1770637	334532	64	160	5227		
PCB-180L											
405.8428	45:07	45:08	0		2070425	393775	140	350	2813	1.08(0.89-1.21)	
407.8398	45:07	45:08	0		1918220	363226	64	160	5675		
PCB-170L											
405.8428	46:22	46:21	-1	1.028	1600732	301412	140	350	2153	1.06(0.89-1.21)	
407.8398	46:22	46:21	-1	1.028	1505644	286328	64	160	4474		
PCB-189L											
405.8428	49:28	49:27	-1	1.096	3368887	626778	1070	2675	586	1.05(0.89-1.21)	
407.8398	49:28	49:27	-1	1.096	3203386	596445	1228	3070	486		
PCB-188											
393.8025	36:59						1	2			
395.7995	36:59						1	2			
PCB-179											
393.8025	37:22	37:20	0	1.010	9004	2086	1	2	2086	1.15(0.89-1.21)	
395.7995	37:22	37:20	1	1.010	7841	2186	1	2	2186		
PCB-184											
393.8025	37:51	37:50	-2	1.023	734	317	1	2	317	14.98(0.89-1.21)	RQM
	Empc Correction				51	26	1	2	26		
395.7995	37:52	37:50	-1	1.023	49	25	1	2	25		
PCB-176											
393.8025	38:13	38:12	-1	1.033	2833	998	1	2	998	0.70(0.89-1.21)	RQ
395.7995	38:12	38:12	-2	1.033	4033	971	1	2	971		
	Empc Correction				2698	950	1	2	950		
PCB-186											
393.8025	38:39						1	2			
395.7995	38:39						1	2			
PCB-178											
393.8025	40:05	40:02	0	1.084	1375	507	1	2	507	0.59(0.89-1.21)	RQ
395.7995	40:03	40:02	-2	1.082	2316	385	1	2	385		
	Empc Correction				1309	482	1	2	482		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-175											RQM
393.8025	40:39	40:40	-3	1.099	959	291	1	2	291		M
	Empc Correction				646	218	1	2	218		
395.7995	40:41	40:40	-1	1.100	616	208	1	2	208	1.56(0.89-1.21)	
PCB-187											RQ
393.8025	40:59	40:55	0	1.108	12305	2234	1	2	2234		
	Empc Correction				9834	1996	1	2	1996		
395.7995	40:58	40:55	0	1.107	9366	1901	1	2	1901	1.31(0.89-1.21)	
PCB-182											
393.8025	41:08						1	2			
395.7995	41:08						1	2			
PCB-183											M
393.8025	41:32	41:31	-3	1.123	8956	1350	1	2	1350		M
395.7995	41:34	41:31	-1	1.124	9365	1827	1	2	1827	0.96(0.89-1.21)	
PCB-185 (C183)											M
393.8025	41:32	41:31	-3	1.123	8956	1350	1	2	1350		M
395.7995	41:34	41:31	-1	1.124	9365	1827	1	2	1827	0.96(0.89-1.21)	
PCB-174											M
393.8025	41:49	41:47	0	1.130	10449	2640	1	2	2640		
395.7995	41:50	41:47	0	1.131	9125	2021	1	2	2021	1.15(0.89-1.21)	M
PCB-177											RQ
393.8025	42:16	42:13	0	1.143	4336	934	1	2	934		
395.7995	42:14	42:13	-1	1.142	5881	1166	1	2	1166	0.74(0.89-1.21)	
	Empc Correction				4129	889	1	2	889		
PCB-181											
393.8025	42:36						1	2			
395.7995	42:36						1	2			
PCB-171											M
393.8025	42:51	42:52	-1	1.158	6114	1309	1	2	1309		
395.7995	42:54	42:52	2	1.160	5923	1076	1	2	1076	1.03(0.89-1.21)	M
PCB-173 (C171)											M
393.8025	42:51	42:52	-1	1.158	6114	1309	1	2	1309		
395.7995	42:54	42:52	2	1.160	5923	1076	1	2	1076	1.03(0.89-1.21)	M
PCB-172											RQM
393.8025	44:31	44:33	0	0.900	1232	387	1	2	387		
	Empc Correction				540	137	1	2	137		
395.7995	44:32	44:33	2	0.900	515	131	1	2	131	2.39(0.89-1.21)	M
PCB-192											
393.8025	44:44						1	2			
395.7995	44:44						1	2			
PCB-180											
393.8025	45:09	45:10	2	0.913	11534	2225	1	2	2225		
395.7995	45:08	45:10	1	0.912	12758	1928	1	2	1928	0.90(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:09	45:10	2	0.913	11534	2225	1	2	2225		
395.7995	45:08	45:10	1	0.912	12758	1928	1	2	1928	0.90(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-191											
393.8025	45:29						1	2			
395.7995	45:29						1	2			
PCB-170											
393.8025	46:24	46:22	0	0.938	4569	799	1	2	799		RQM
	Empc Correction				2164	560	1	2	560		M
395.7995	46:22	46:22	-2	0.937	2061	534	1	2	534	2.22(0.89-1.21)	M
PCB-190											
393.8025	46:57	46:54	1	0.949	563	165	1	2	165		RQM
395.7995	46:54	46:54	-2	0.948	1105	346	1	2	346	0.51(0.89-1.21)	M
	Empc Correction				536	157	1	2	157		
PCB-189											
393.8025	49:28						66	165			
395.7995	49:28						19	47			
PCB-202L											
439.8038	42:21	42:19	0	0.821	1718495	326172	31	77	10522		
441.8008	42:21	42:19	0	0.821	1863853	347101	36	90	9642	0.92(0.76-1.02)	
PCB-194L											
439.8038	51:35	51:36	-1		2458006	447349	242	605	1849		
441.8008	51:35	51:36	-1		2683286	495910	200	500	2480	0.92(0.76-1.02)	
PCB-205L											
439.8038	52:03	52:02	-1	1.009	2599161	465522	242	605	1924		
441.8008	52:03	52:02	-1	1.009	2880331	522573	200	500	2613	0.90(0.76-1.02)	
PCB-202											
427.7635	42:23	42:22	0	1.001	191	101	8	20	13		RQ
429.7606	42:25	42:22	1	1.002	586	123	1	2	123	0.33(0.76-1.02)	
	Empc Correction				214	113	1	2	113		
PCB-201											
427.7635	43:16						8	20			
429.7606	43:16						1	2			
PCB-204											
427.7635	43:56						8	20			
429.7606	43:56						1	2			
PCB-197											
427.7635	44:10						8	20			
429.7606	44:10						1	2			
PCB-200											
427.7635	44:21						8	20			
429.7606	44:21						1	2			
PCB-198											
427.7635	47:08	47:05	3	1.113	461	194	8	20	24		RQ
429.7606	47:06	47:05	1	1.112	883	349	1	2	349	0.52(0.76-1.02)	
	Empc Correction				517	217	1	2	217		
PCB-199 (C198)											
427.7635	47:08	47:05	3	1.113	461	194	8	20	24		RQ
429.7606	47:06	47:05	1	1.112	883	349	1	2	349	0.52(0.76-1.02)	
	Empc Correction				517	217	1	2	217		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-196											RQ
427.7635	47:42	47:43	-4	0.916	151	51	8	20	6		
429.7606	47:43	47:43	-3	0.916	792	358	1	2	358	0.19(0.76-1.02)	
Empc Correction					169	57	1	2	57		
PCB-203											RQ
427.7635	47:56	47:55	-1	0.921	755	243	8	20	30		
429.7606	47:56	47:55	-1	0.921	1693	492	1	2	492	0.45(0.76-1.02)	
Empc Correction					848	273	1	2	273		
PCB-195											
427.7635	49:14						5	12			
429.7606	49:14						11	27			
PCB-194											RQM
427.7635	51:36	51:37	-1	0.991	375	157	5	12	31		
429.7606	51:38	51:37	1	0.992	1340	331	11	27	30	0.28(0.76-1.02)	M
Empc Correction					421	176	11	27	16		
PCB-205											
427.7635	52:02						5	12			
429.7606	52:02						11	27			
PCB-208L											
473.7648	49:00	48:59	-1	0.950	2205969	419184	566	1415	741		
475.7619	49:00	48:59	-1	0.950	2698405	513174	744	1860	690	0.82(0.65-0.89)	
PCB-206L											
473.7648	53:48	53:47	-1	1.043	1634687	301027	566	1415	532		
475.7619	53:48	53:47	-1	1.043	1954035	352161	744	1860	473	0.84(0.65-0.89)	
PCB-208											
461.7246	48:59						175	437			
463.7216	48:59						1218	3045			
PCB-207											
461.7246	49:55						175	437			
463.7216	49:55						1218	3045			
PCB-206											
461.7246	53:47						175	437			
463.7216	53:47						1218	3045			
PCB-209L											
507.7258	55:25	55:24	-1	1.074	1556865	271152	113	282	2400		
509.7229	55:25	55:24	-1	1.074	2162186	386447	57	142	6780	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											RQ
495.6856	55:26	55:25	-1	1.000	3371	758	10	25	76		
Empc Correction					2530	479	10	25	48		
497.6826	55:27	55:25	-1	1.000	3668	695	13	32	53	0.92(0.59-0.79)	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

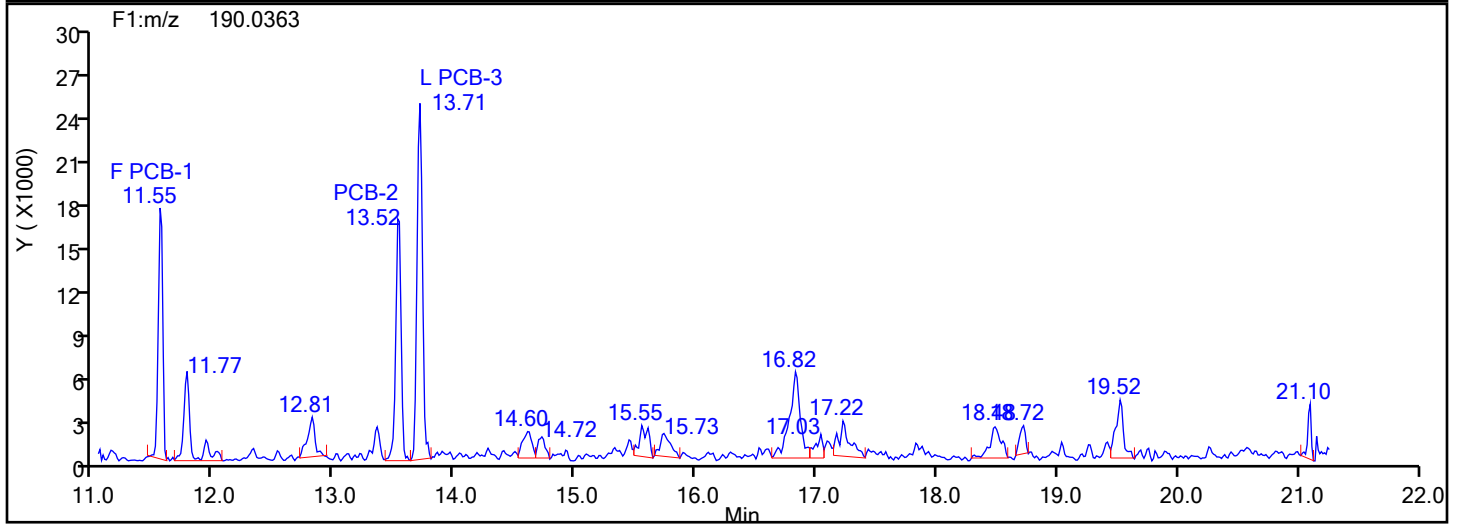
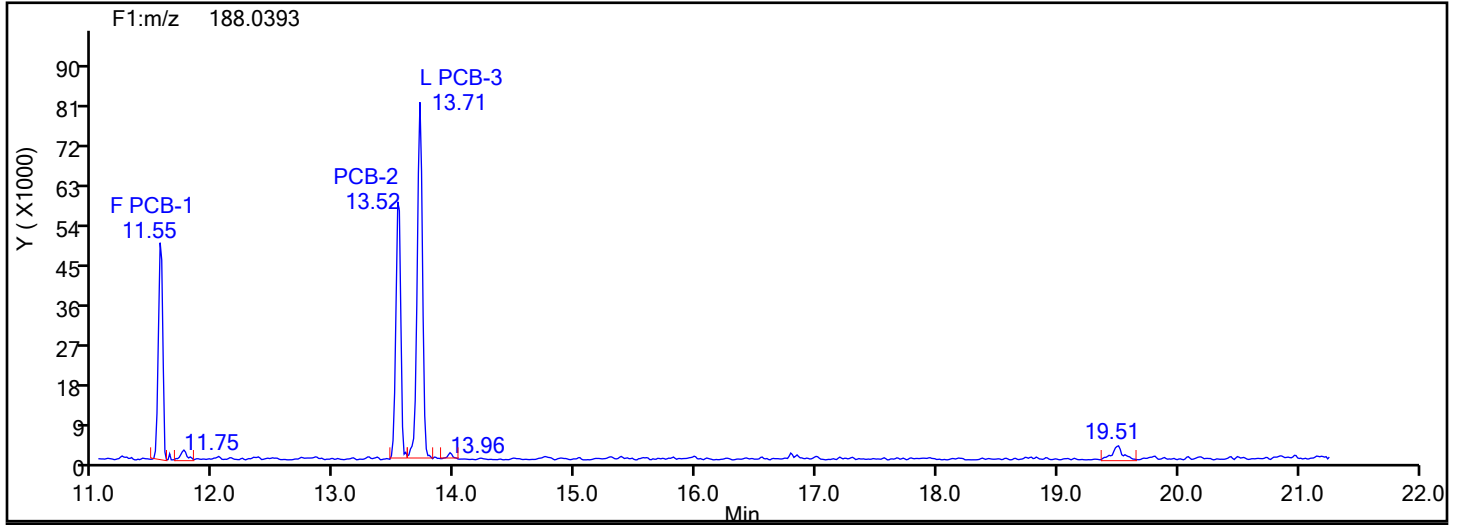
U - Marked Undetected

a - User Assigned ID

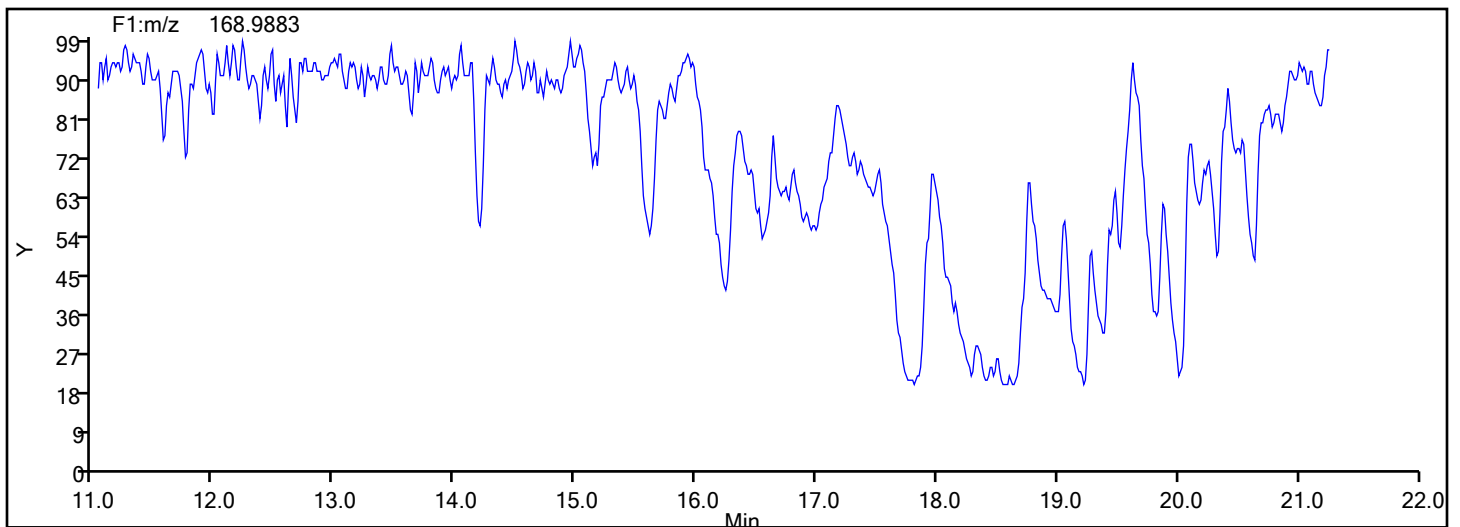
Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

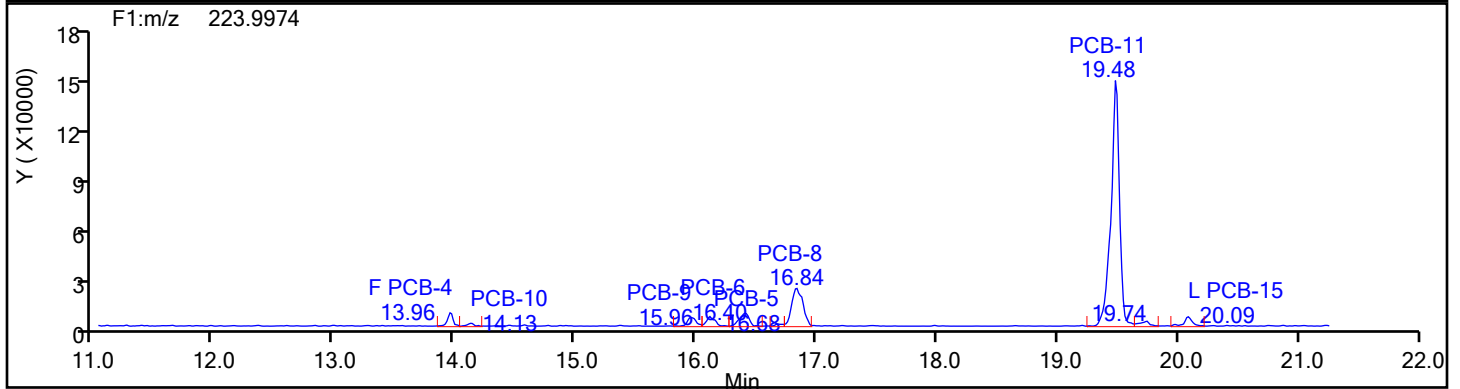
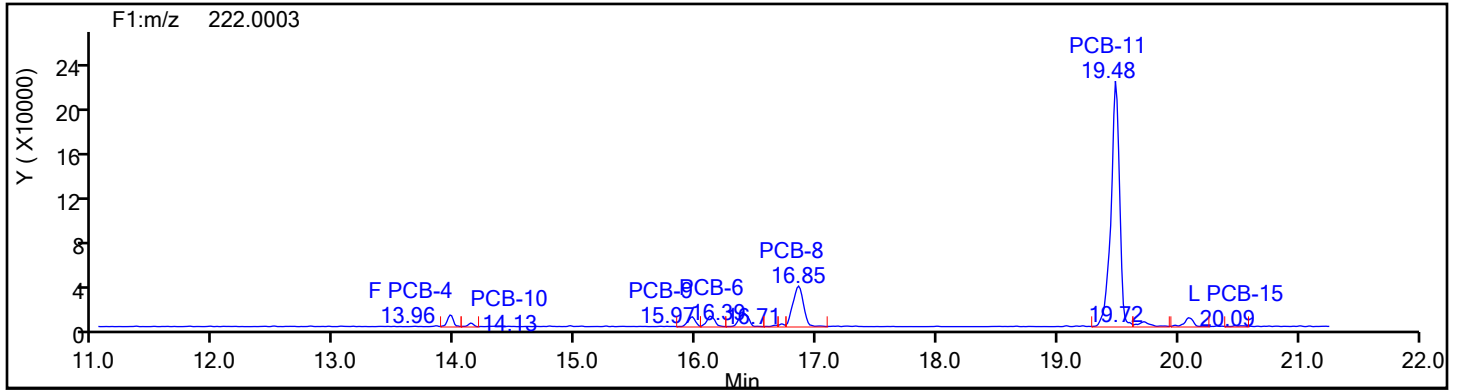


MoPCB F1 Lock Mass

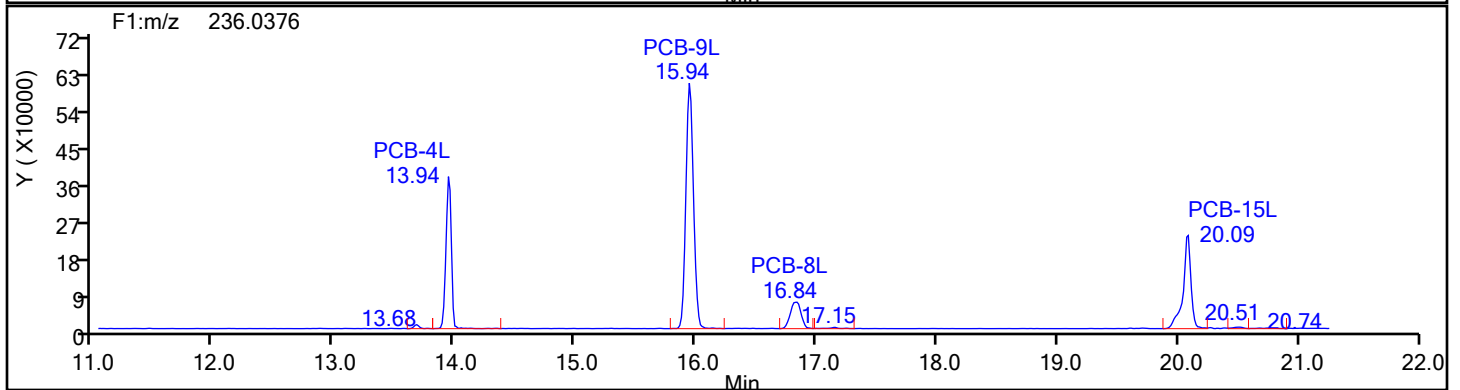
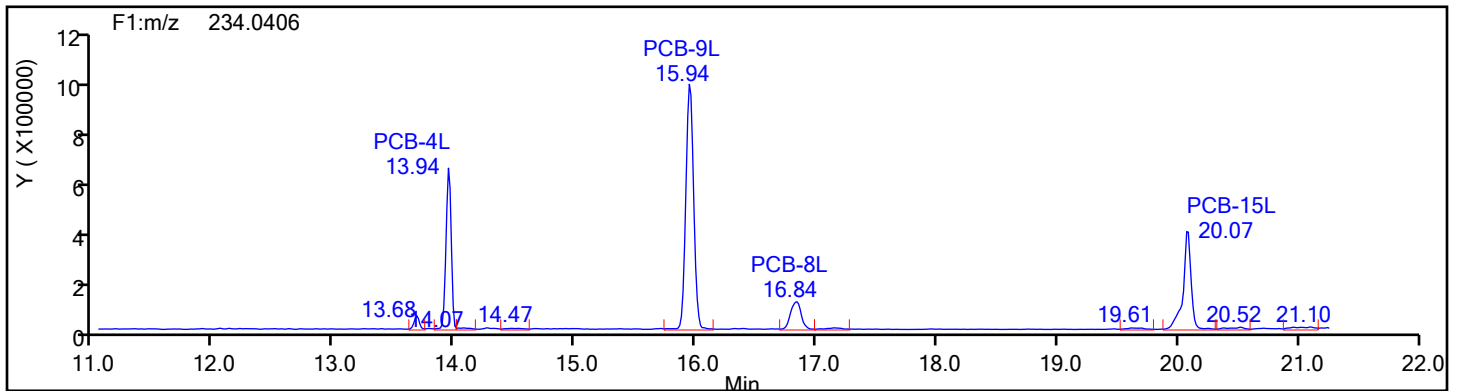


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d

Injection Date: 11-Jun-2024 17:06:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 2 COMBINED

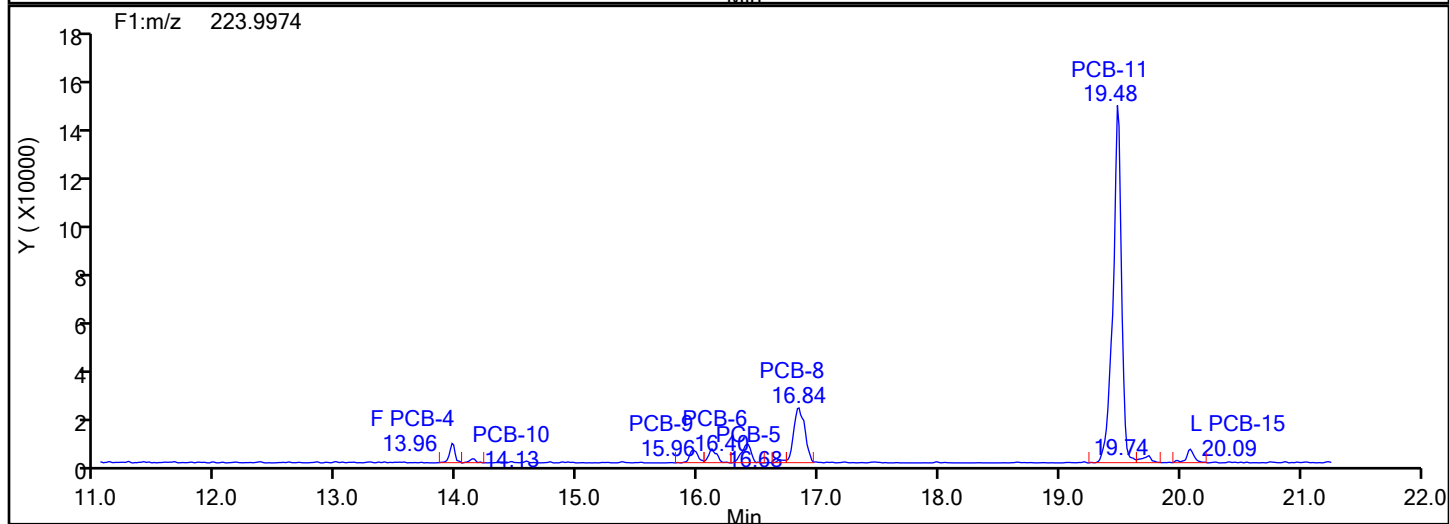
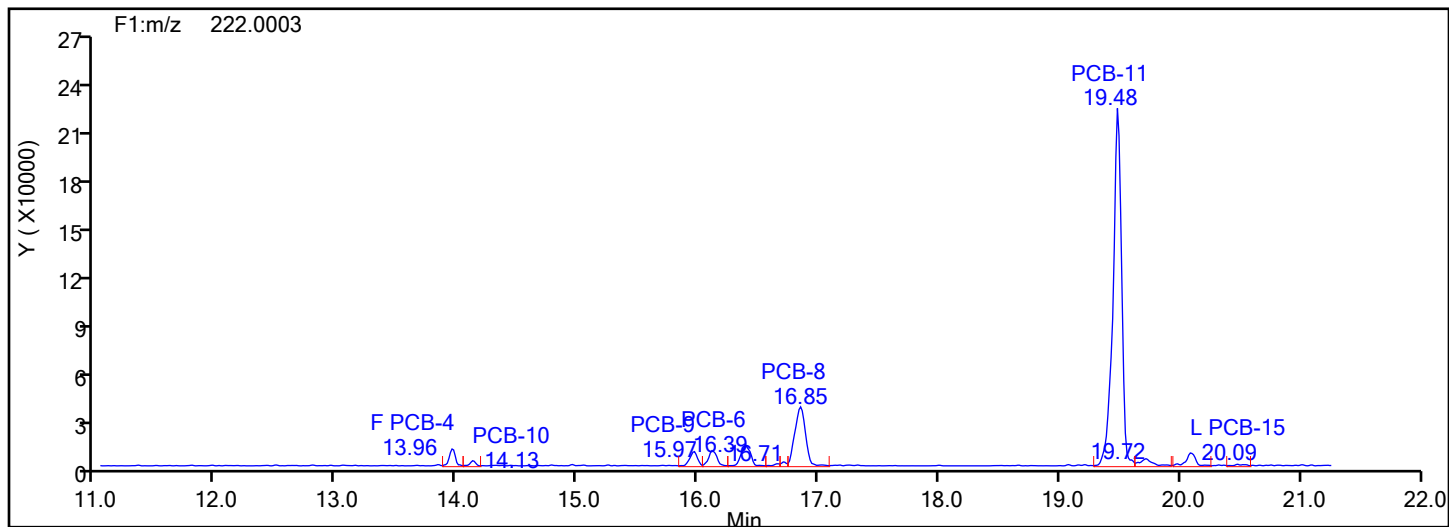
Worklist#: 87502

Sample Line#: 10

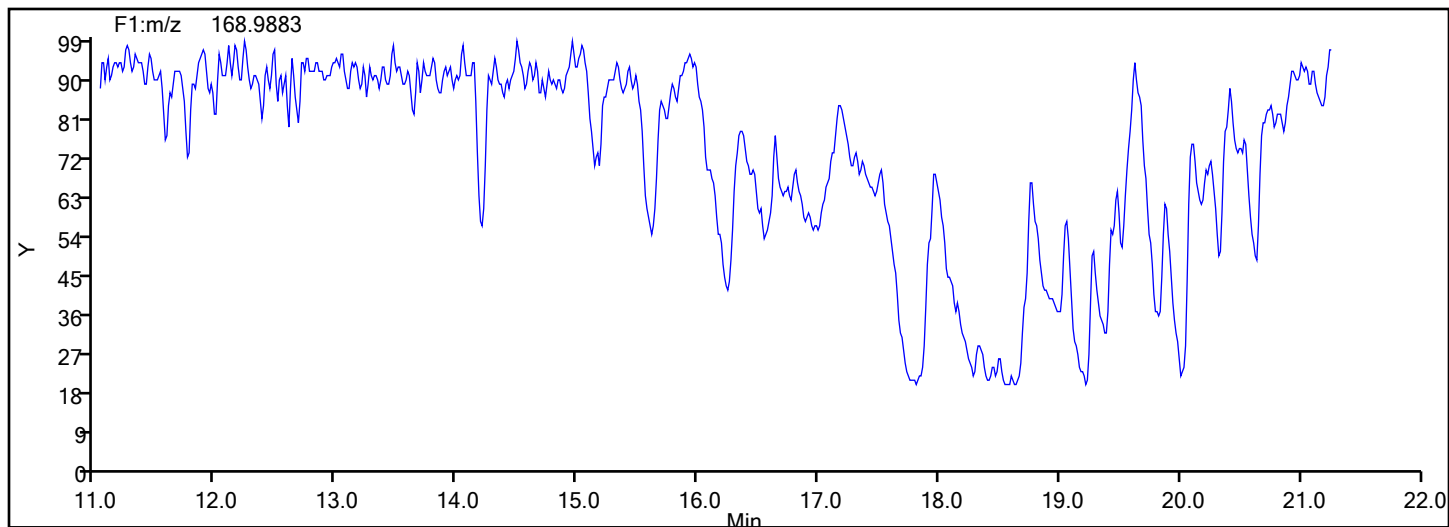
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

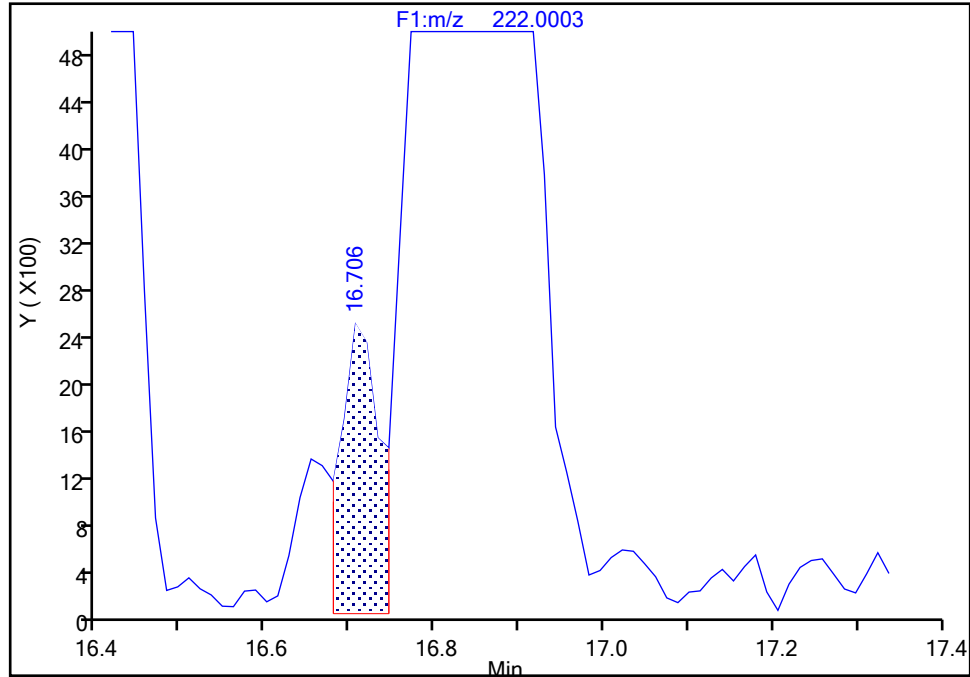
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Injection Date: 11-Jun-2024 17:06:00 Instrument ID: D2D
Lims ID: 140-36689-A-2-C Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

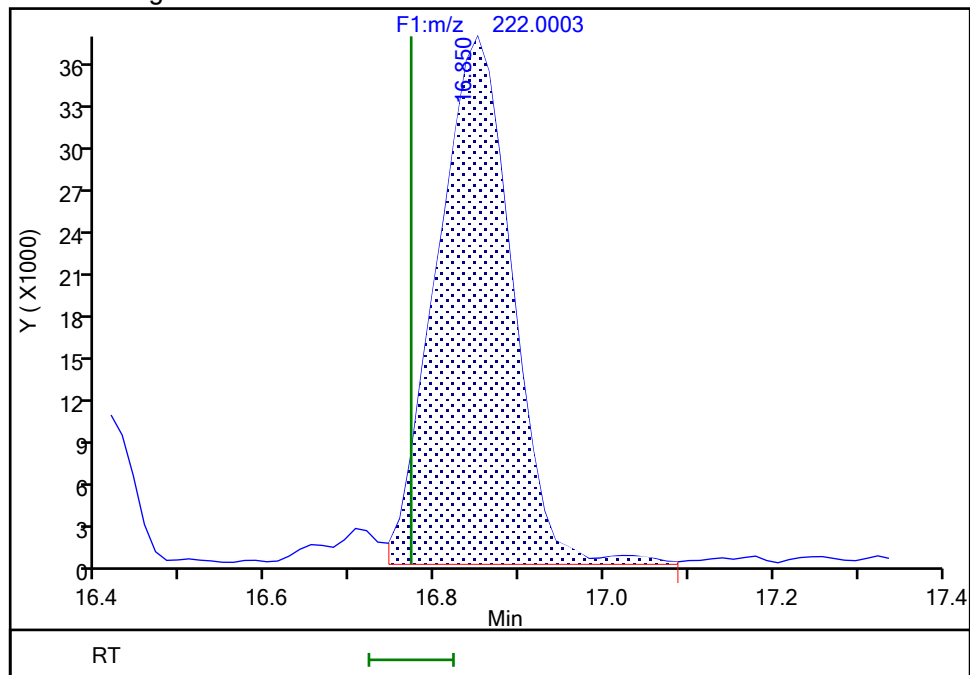
RT: 16.71
Area: 7203
Amount: 0.262535
Amount Units: pg/ul

Processing Integration Results



RT: 16.85
Area: 227560
Amount: 8.028352
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 18:08:13 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

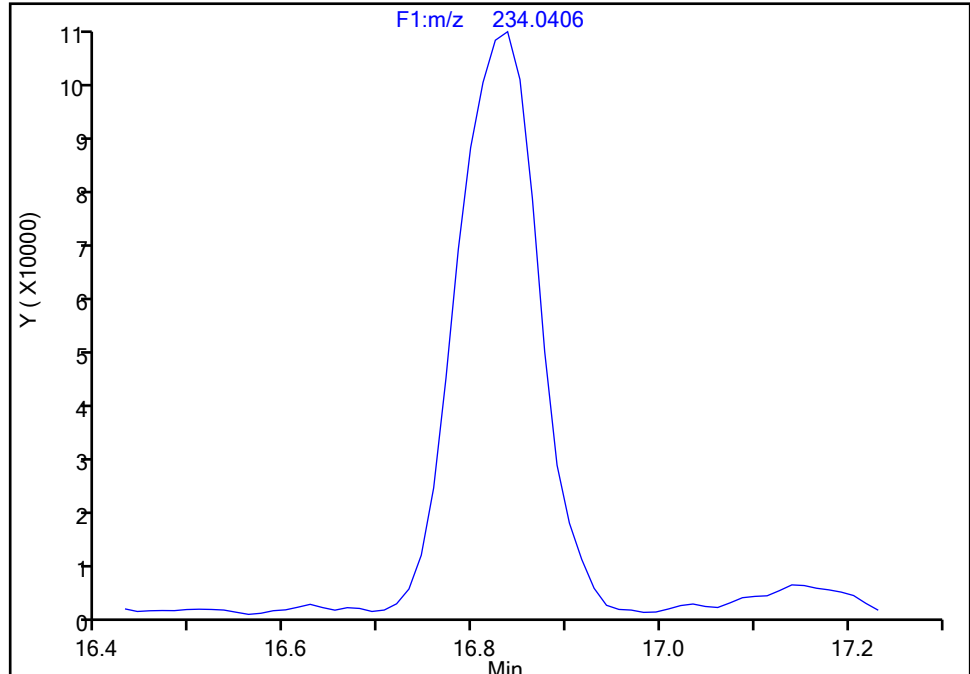
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Instrument ID: D2D
Lims ID: 140-36689-A-2-C Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

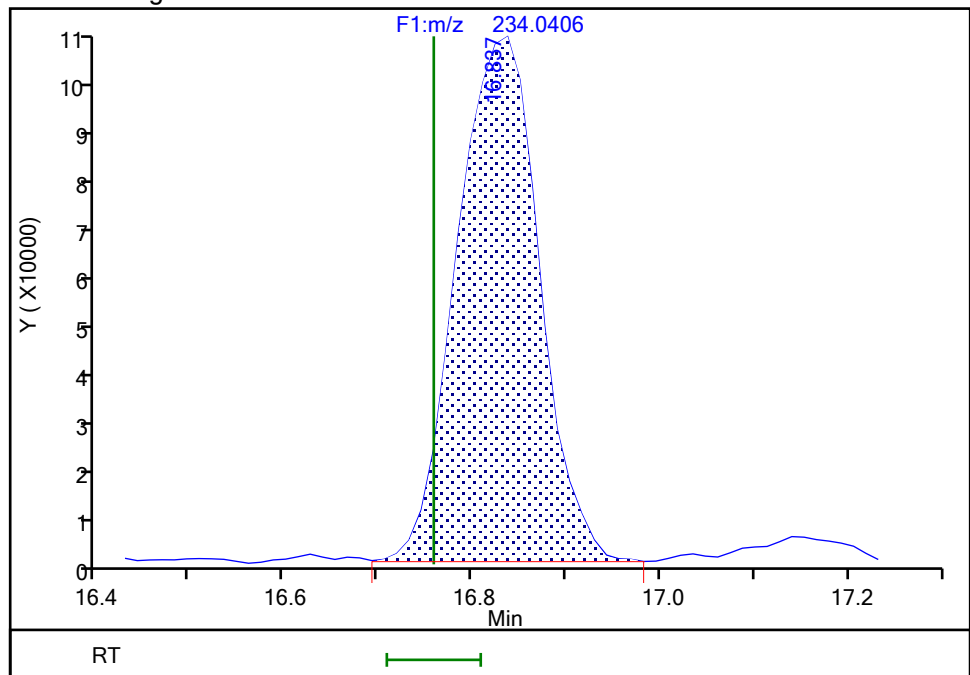
Not Detected
Expected RT: 16.76

Processing Integration Results



RT: 16.84
Area: 630592
Amount: 29.837149
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 18:07:30 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

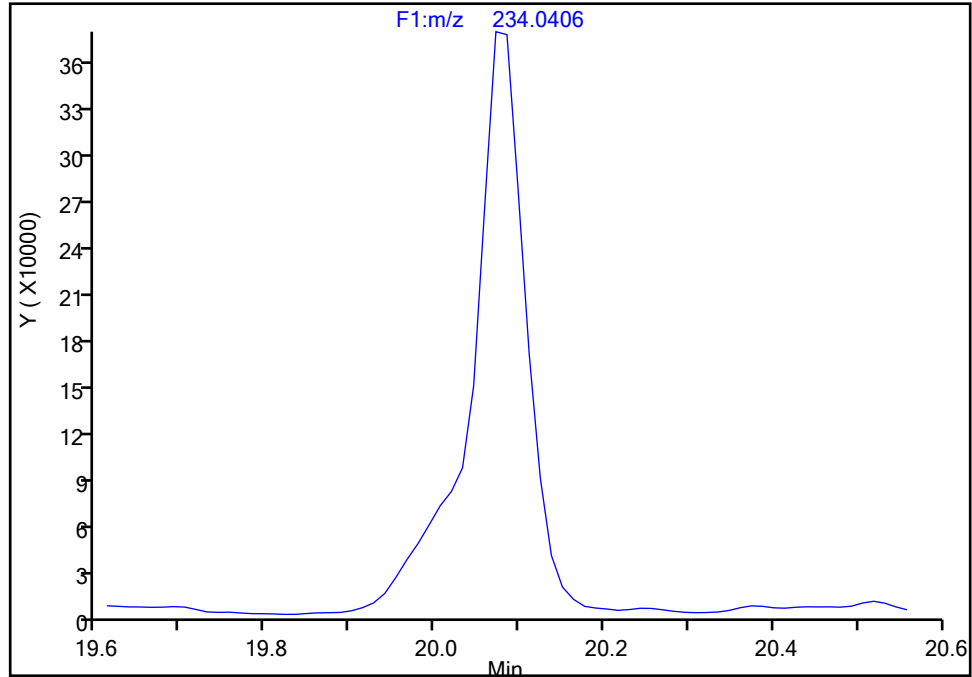
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Injection Date: 11-Jun-2024 17:06:00 Instrument ID: D2D
Lims ID: 140-36689-A-2-C Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-15L, CAS: 208263-67-6

Signal: 1

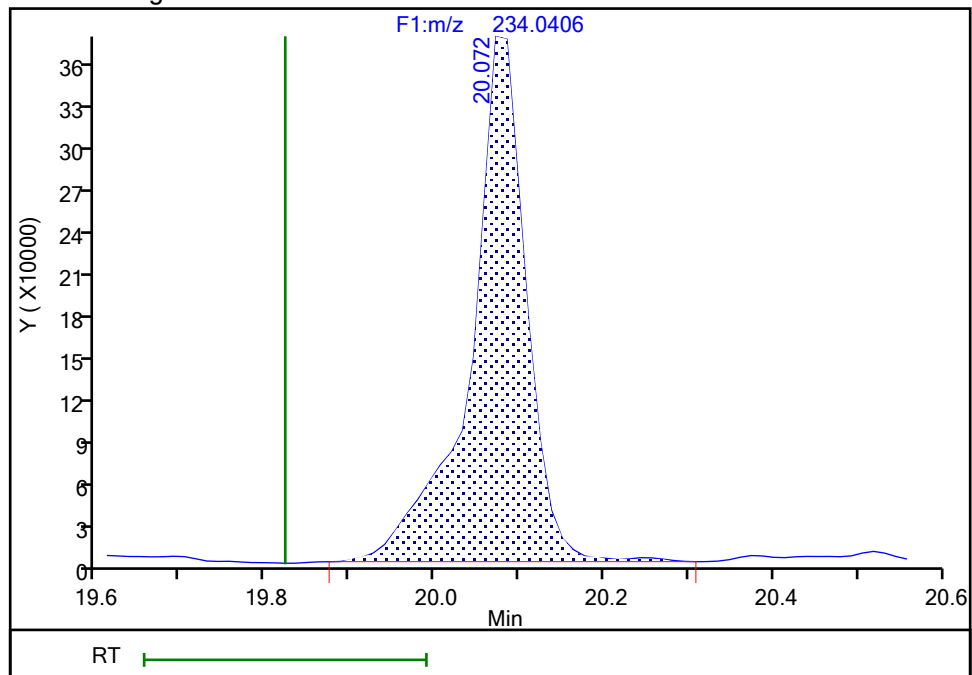
Not Detected
Expected RT: 19.82

Processing Integration Results



RT: 20.07
Area: 1700369
Amount: 37.423506
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 18:07:34 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d

Injection Date: 11-Jun-2024 17:06:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 2 COMBINED

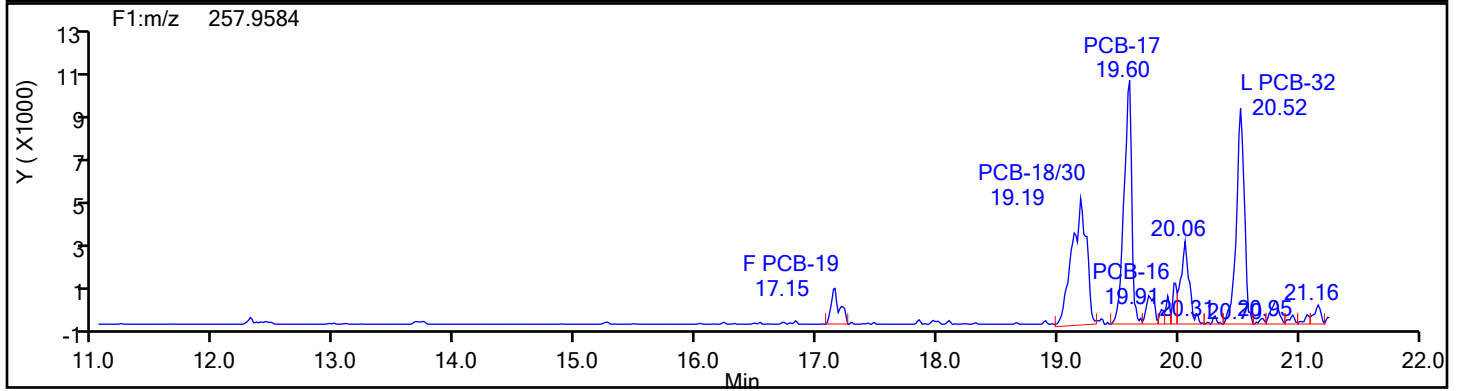
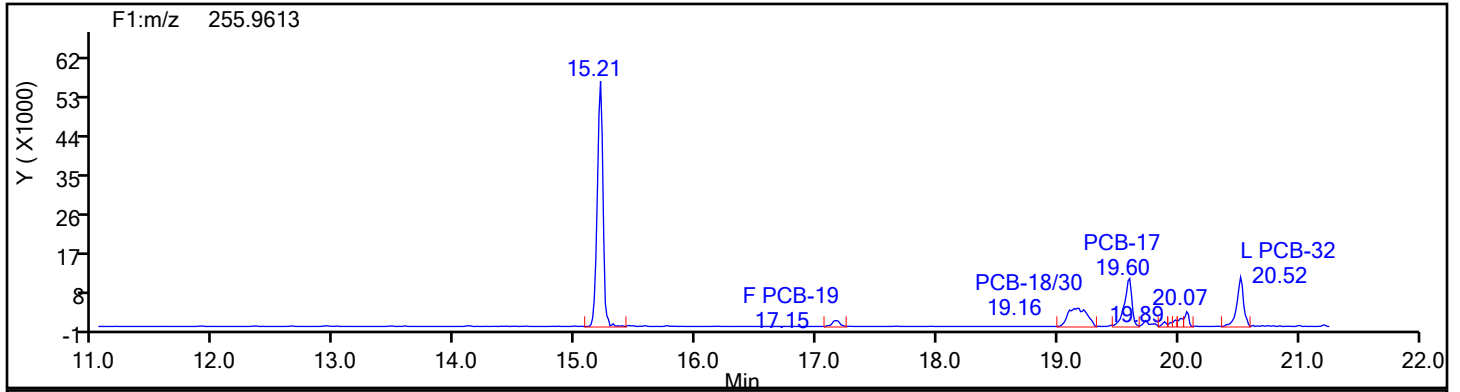
Worklist#: 87502

Sample Line#: 10

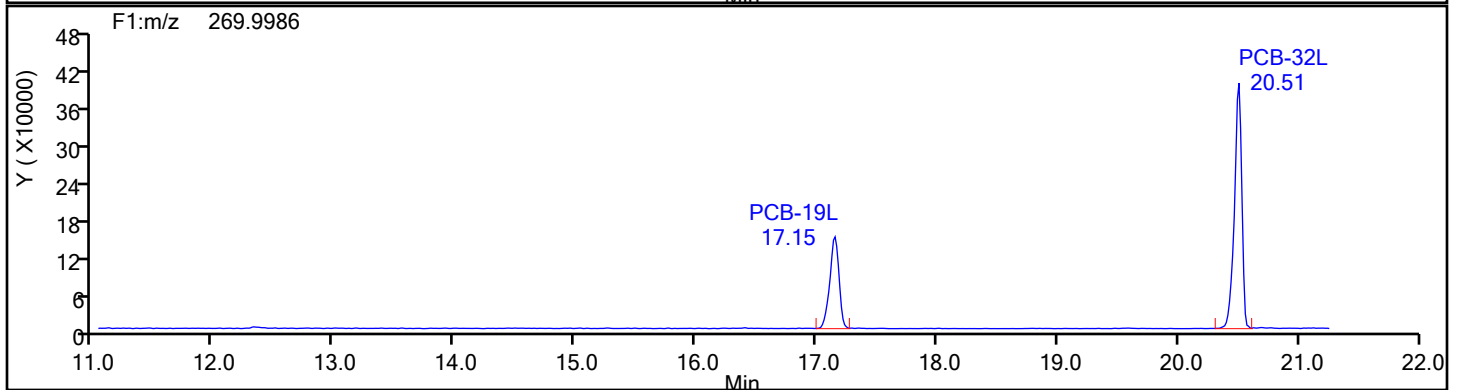
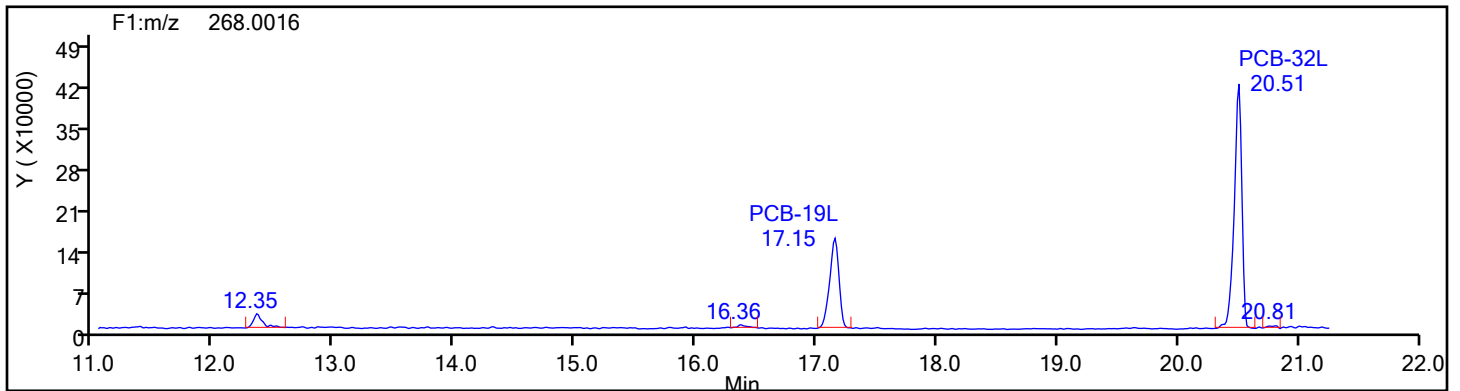
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1

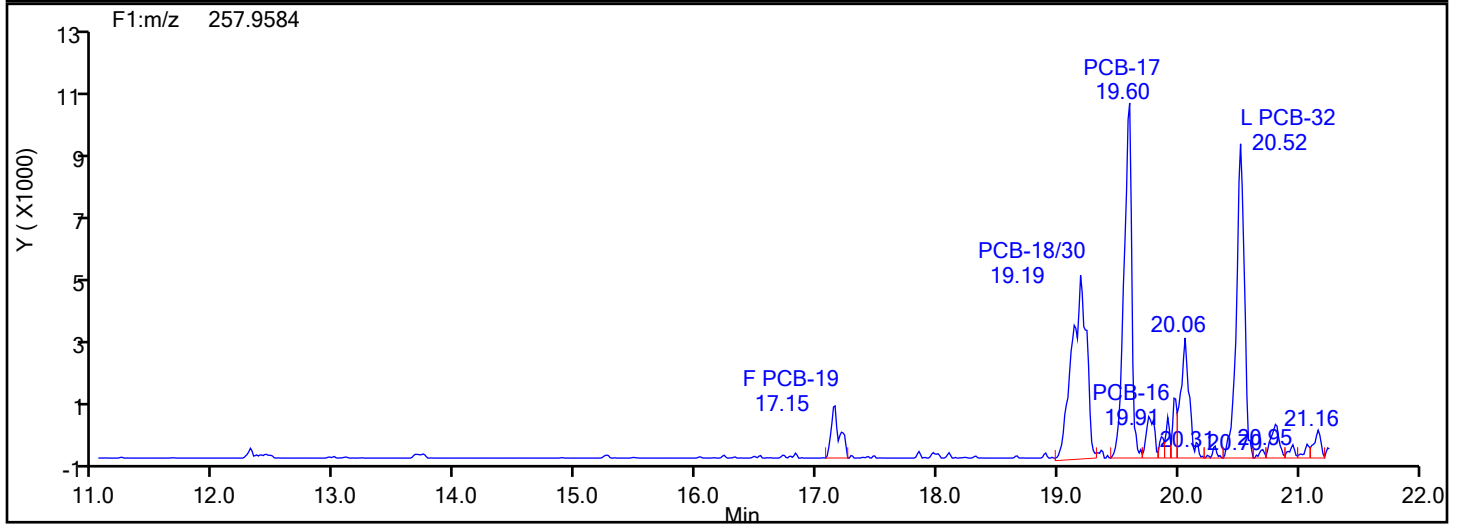
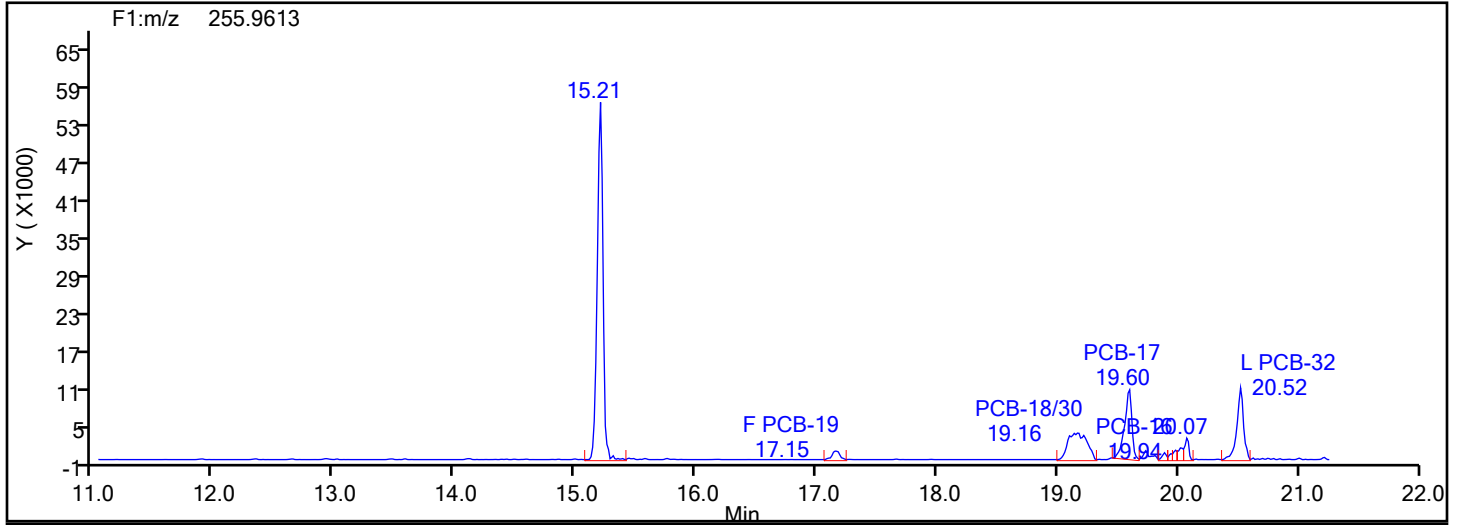


TriPCB F1 Standards

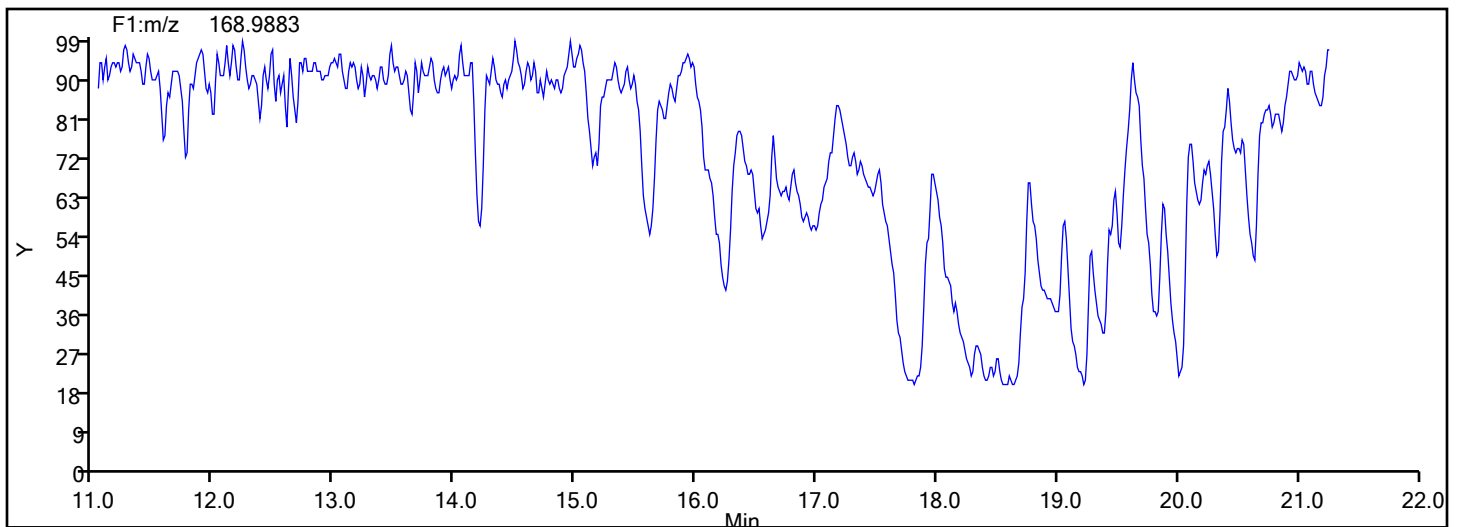


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

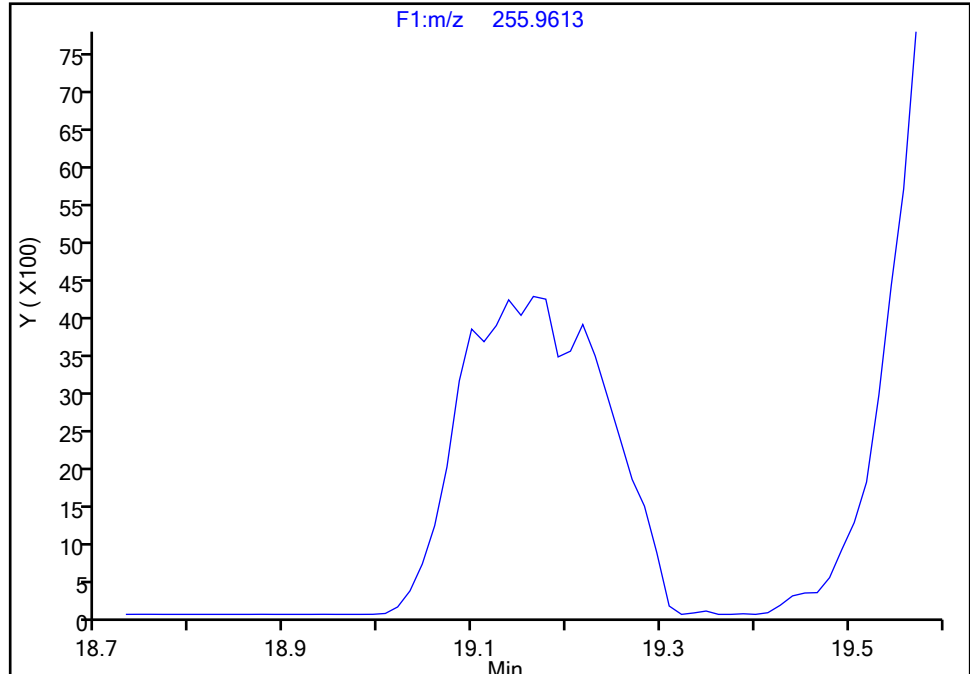
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Injection Date: 11-Jun-2024 17:06:00 Instrument ID: D2D
Lims ID: 140-36689-A-2-C Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 1

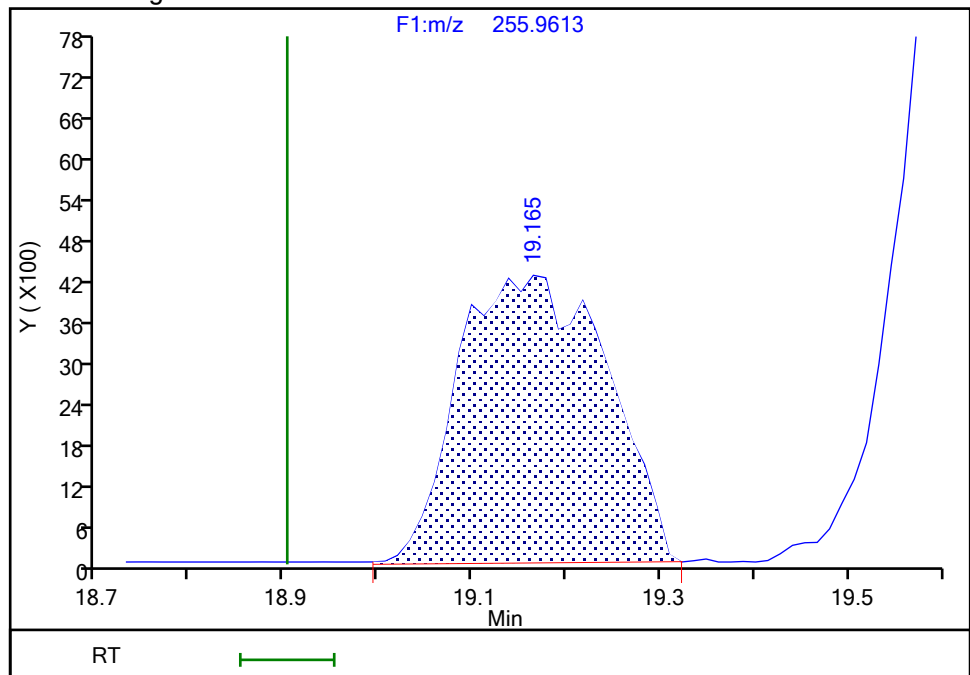
Not Detected
Expected RT: 18.90

Processing Integration Results



RT: 19.16
Area: 45976
Amount: 3.219797
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 18:09:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

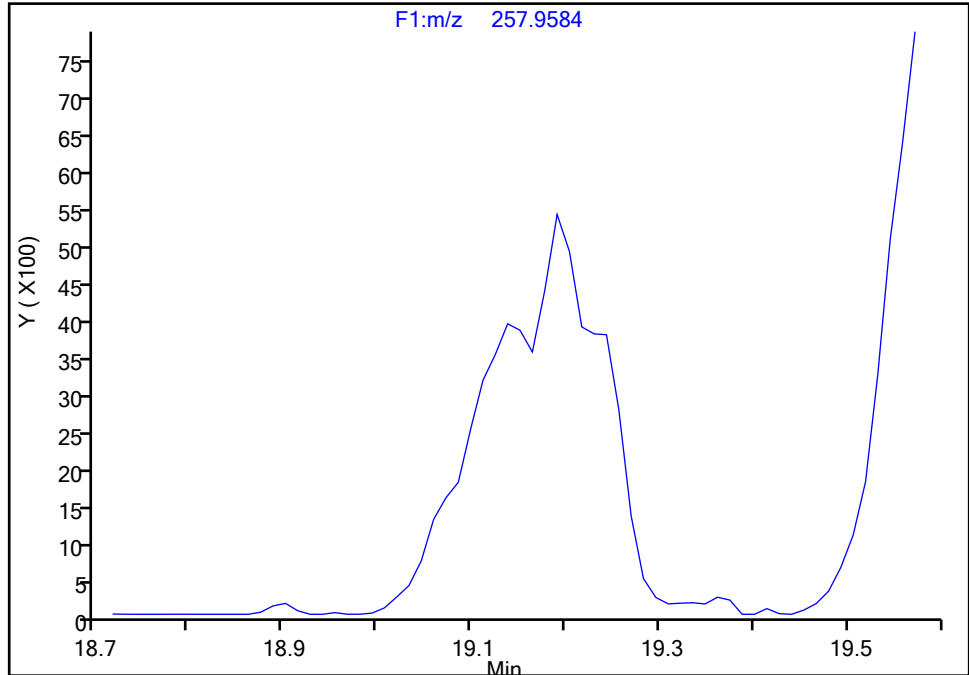
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Instrument ID: D2D
Lims ID: 140-36689-A-2-C Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 2

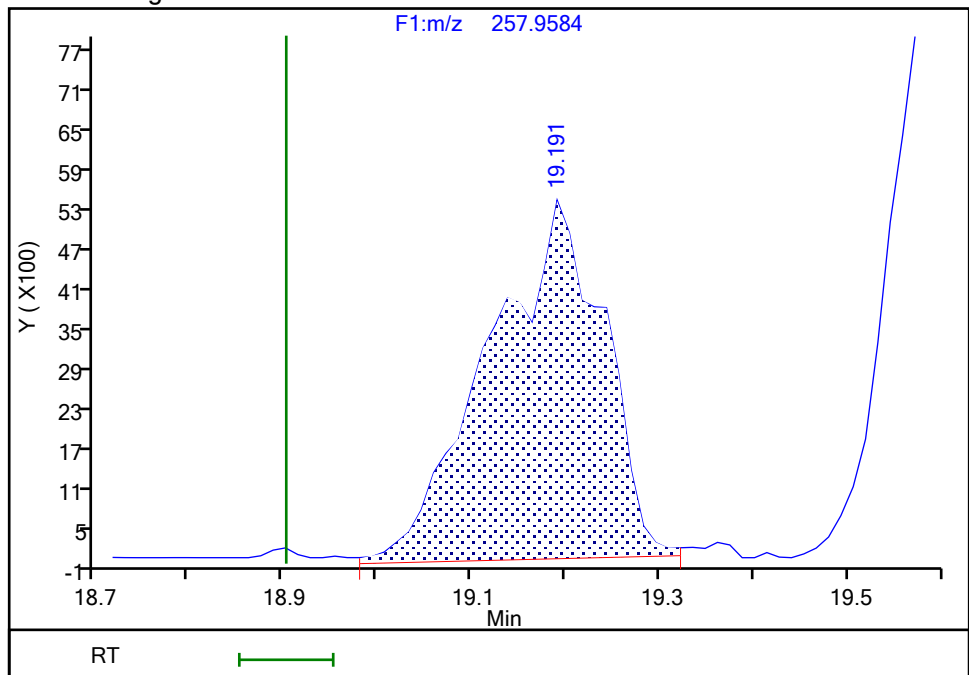
Not Detected
Expected RT: 18.90

Processing Integration Results



RT: 19.19
Area: 46029
Amount: 3.219797
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 18:09:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d

Injection Date: 11-Jun-2024 17:06:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 2 COMBINED

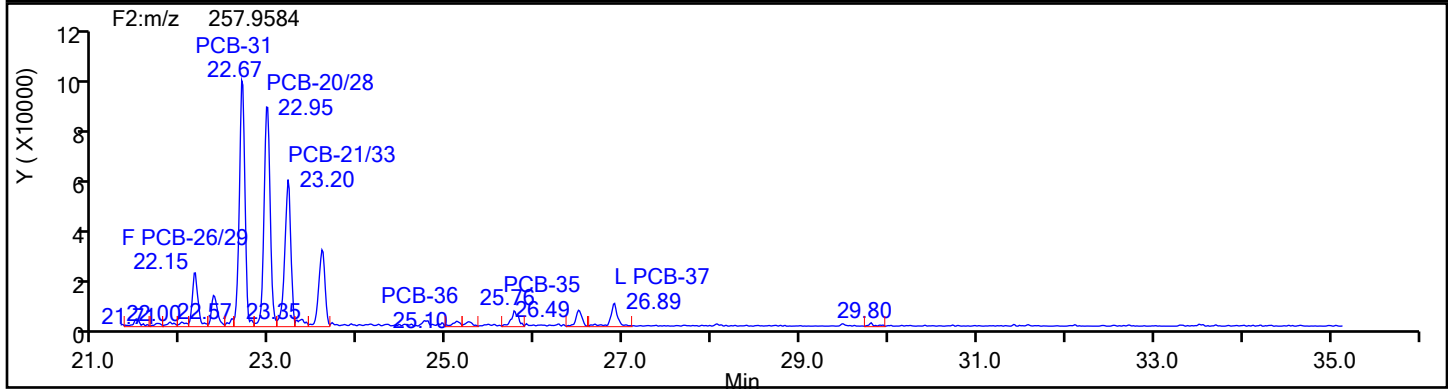
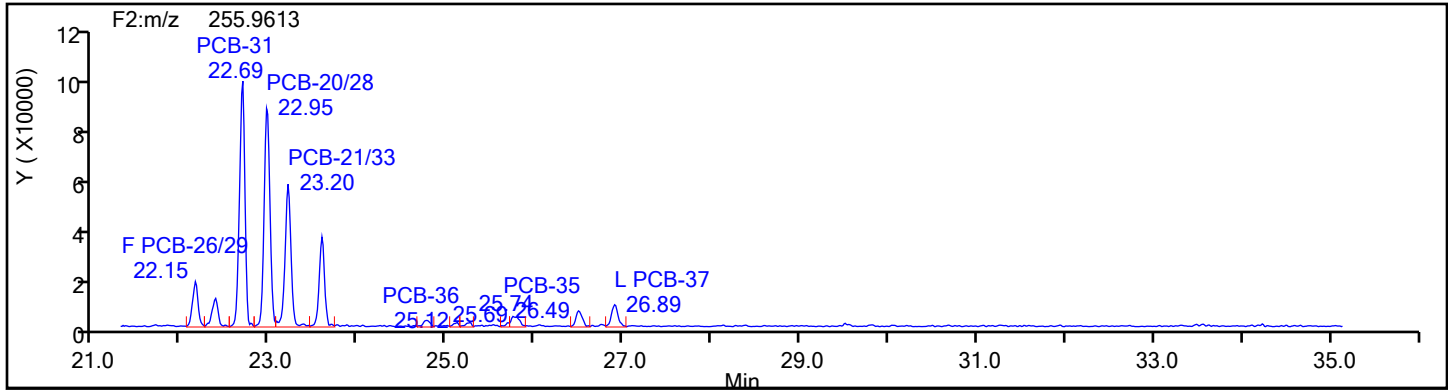
Worklist#: 87502

Sample Line#: 10

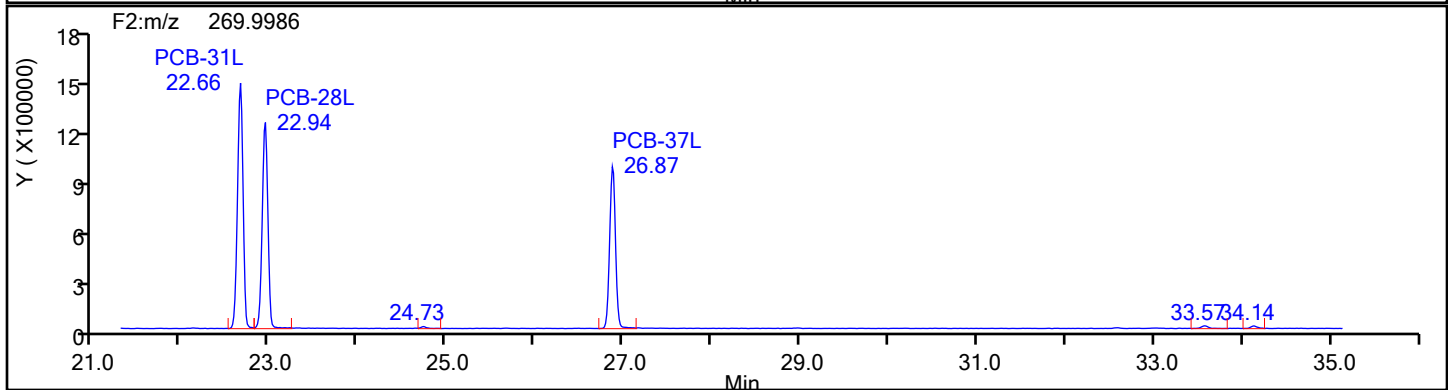
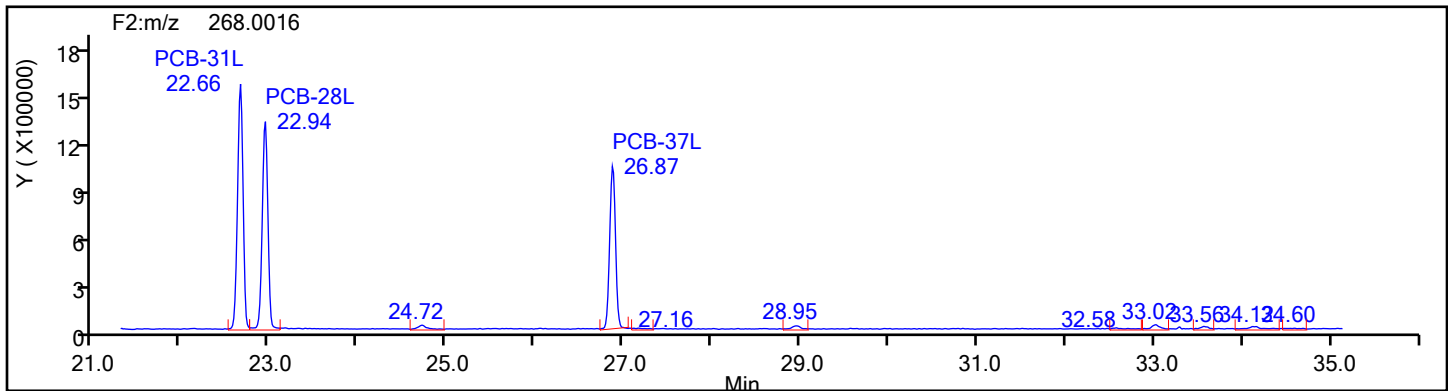
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d

Injection Date: 11-Jun-2024 17:06:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 2 COMBINED

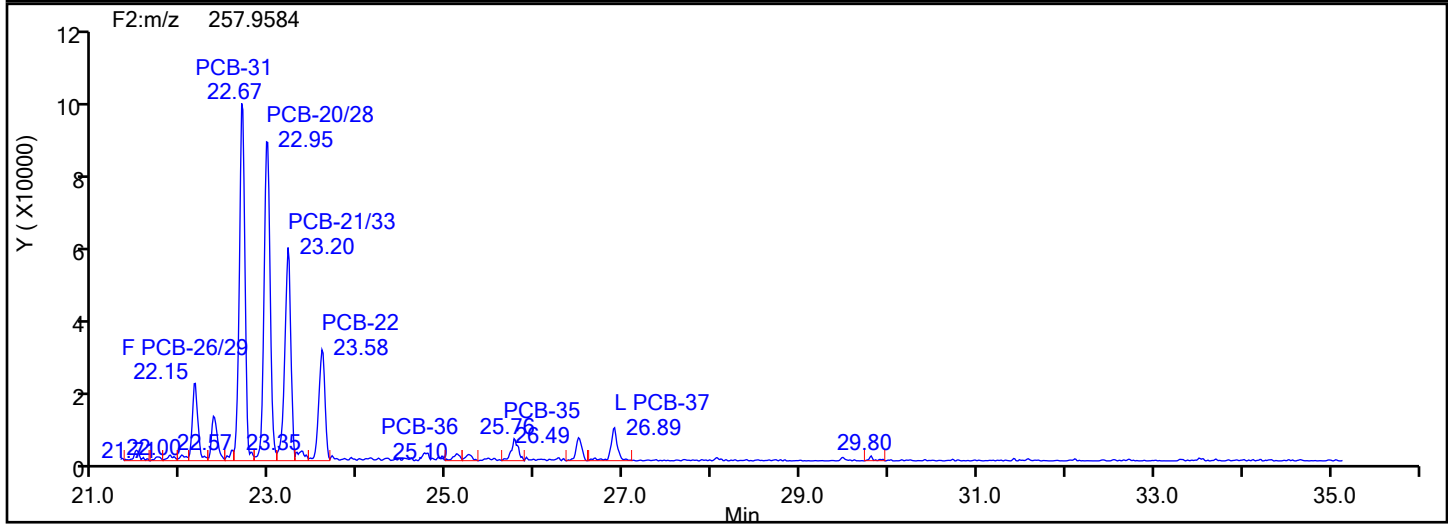
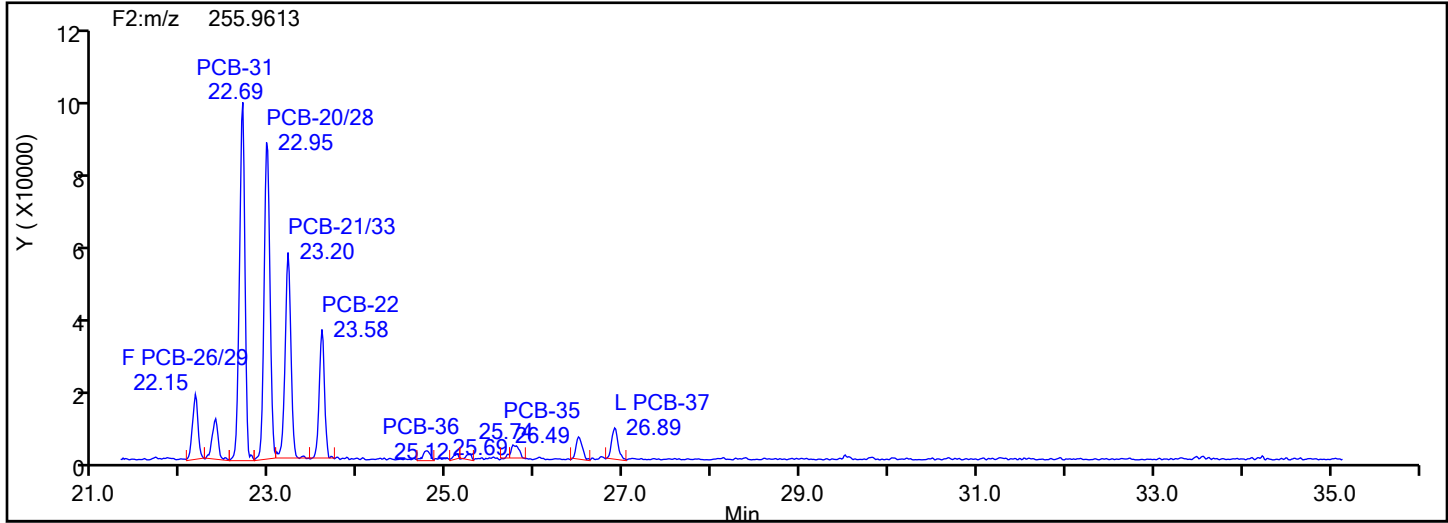
Worklist#: 87502

Sample Line#: 10

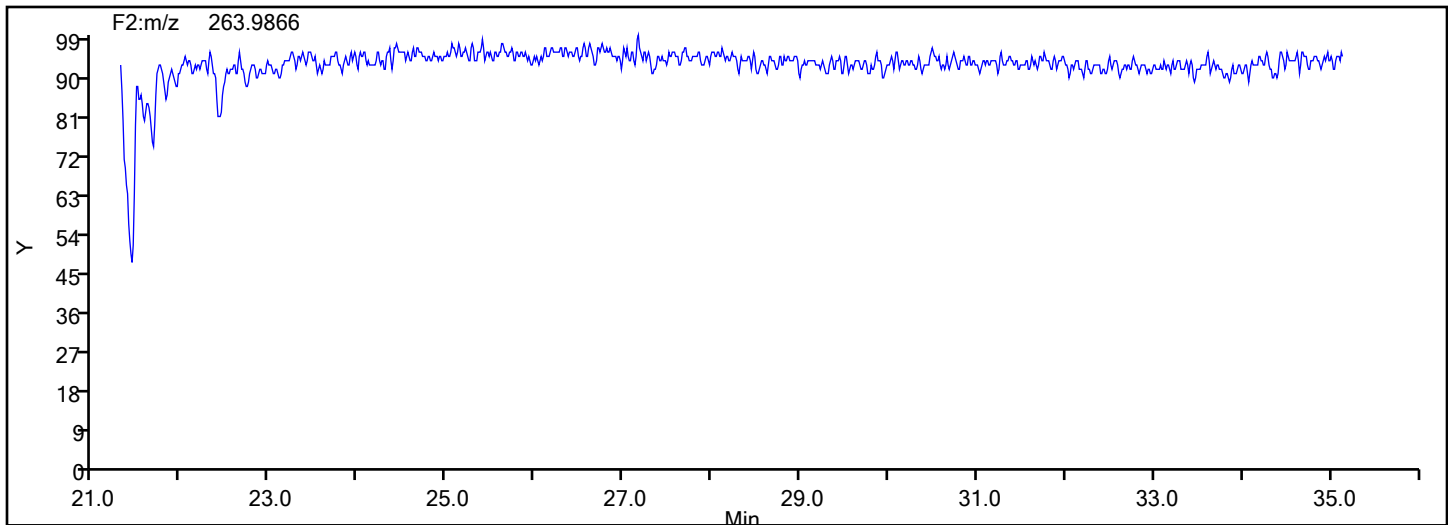
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d

Injection Date: 11-Jun-2024 17:06:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 2 COMBINED

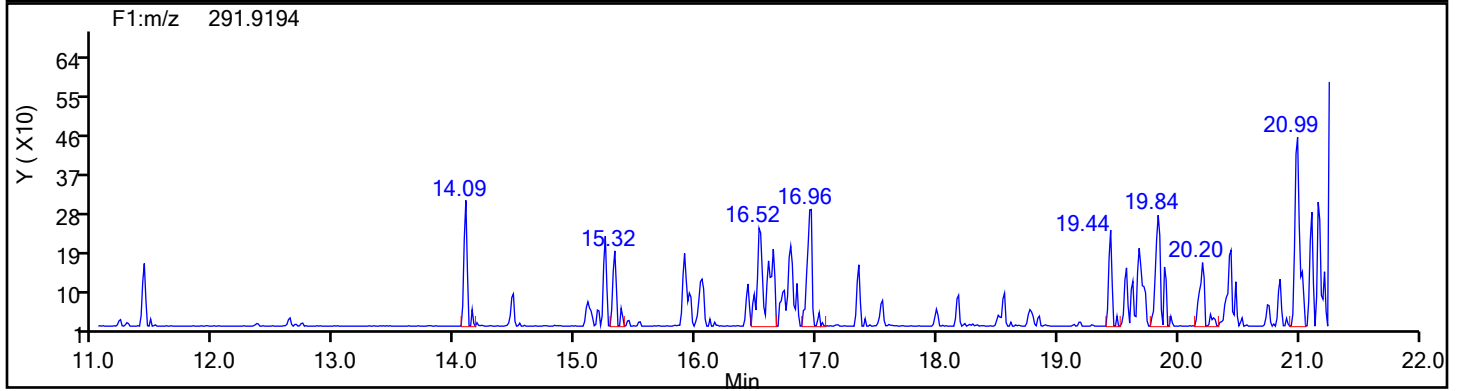
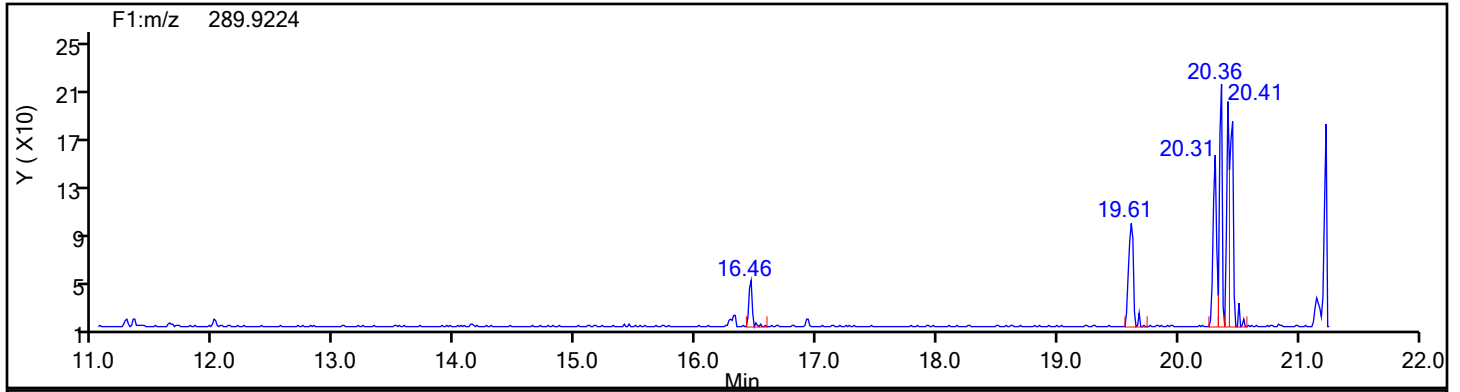
Worklist#: 87502

Sample Line#: 10

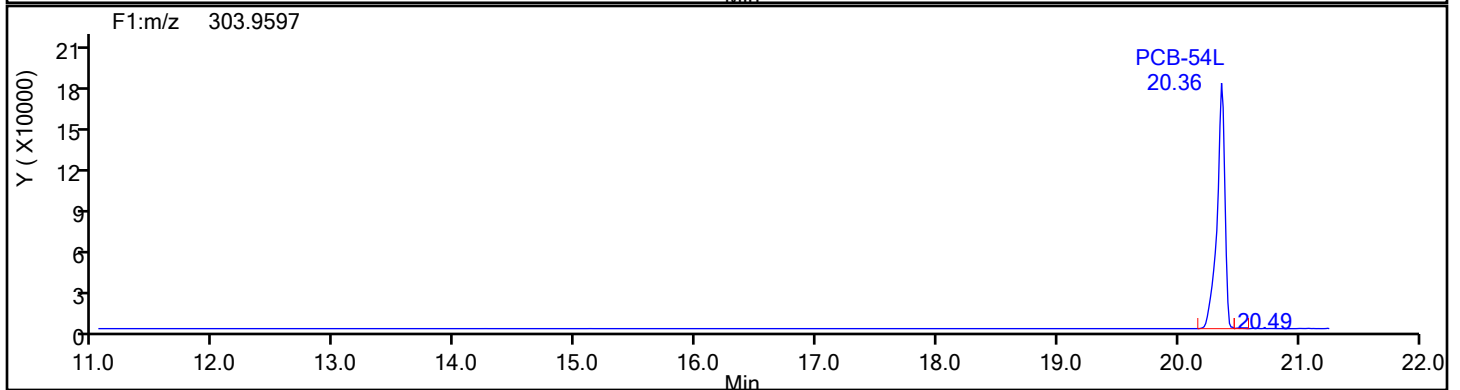
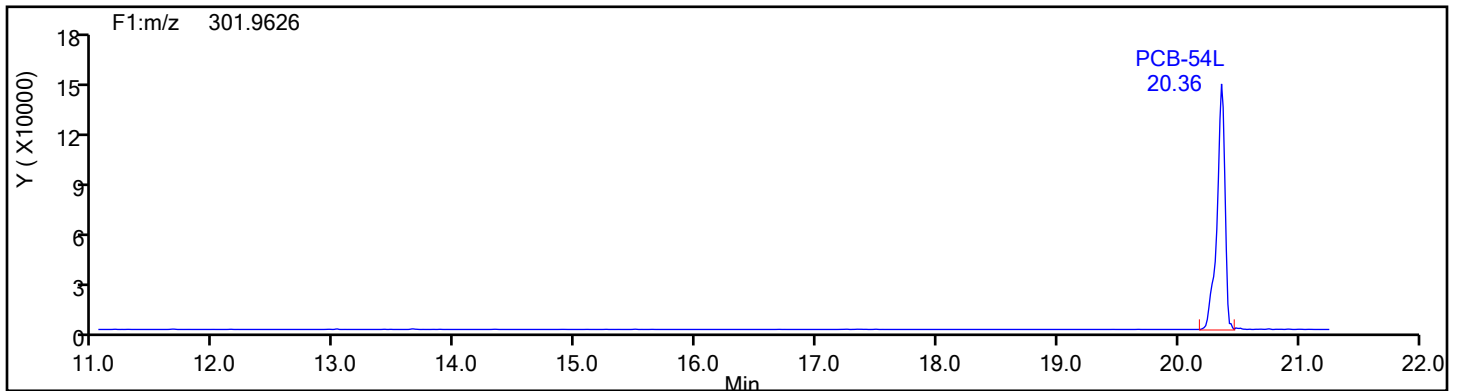
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

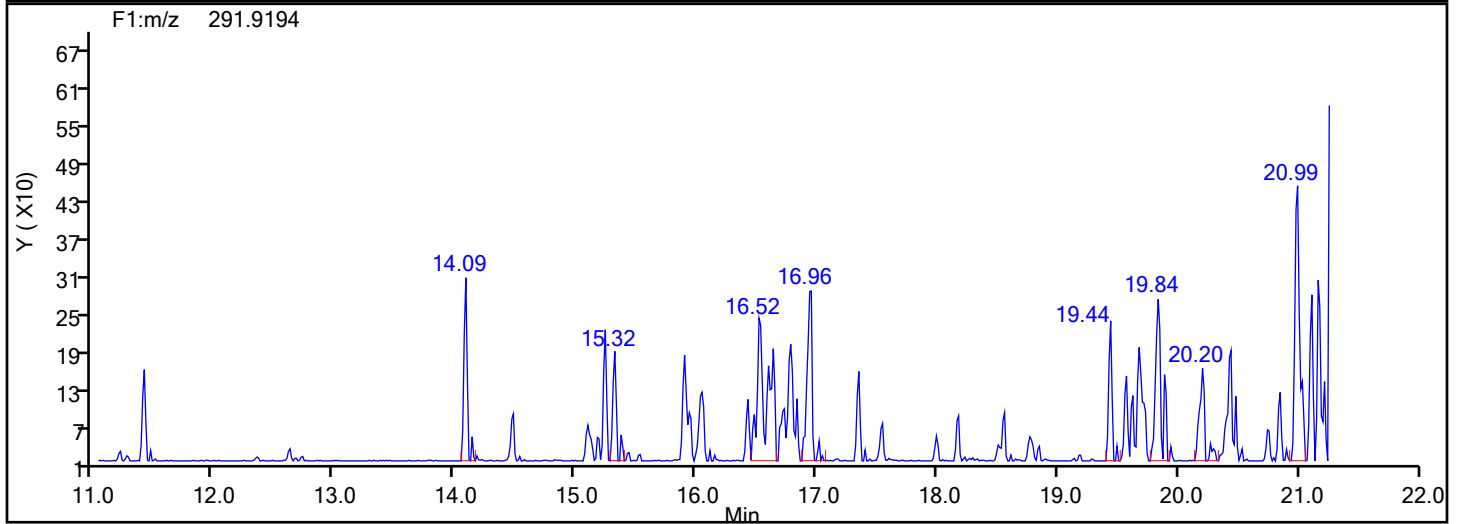
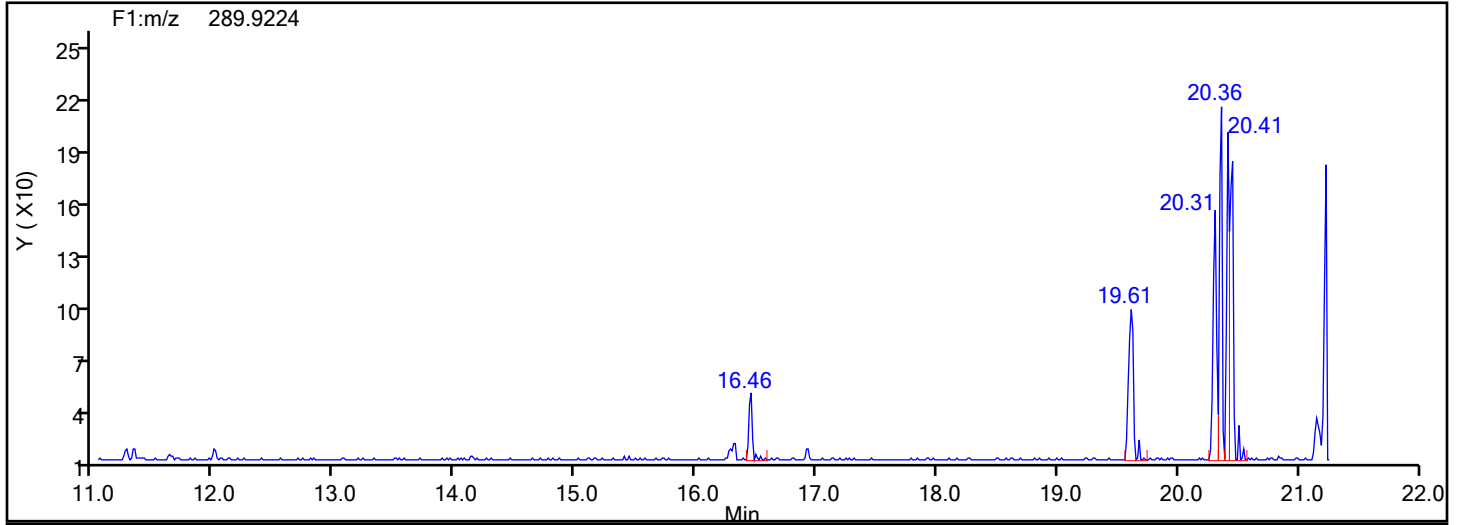


TePCB F1 Standards

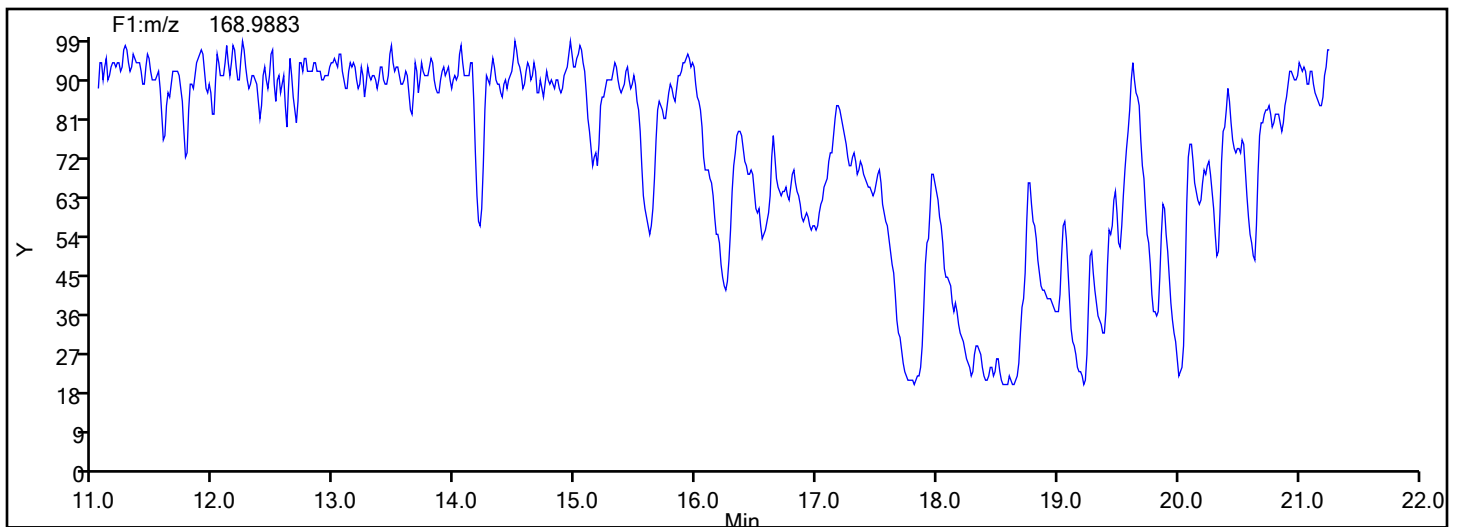


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

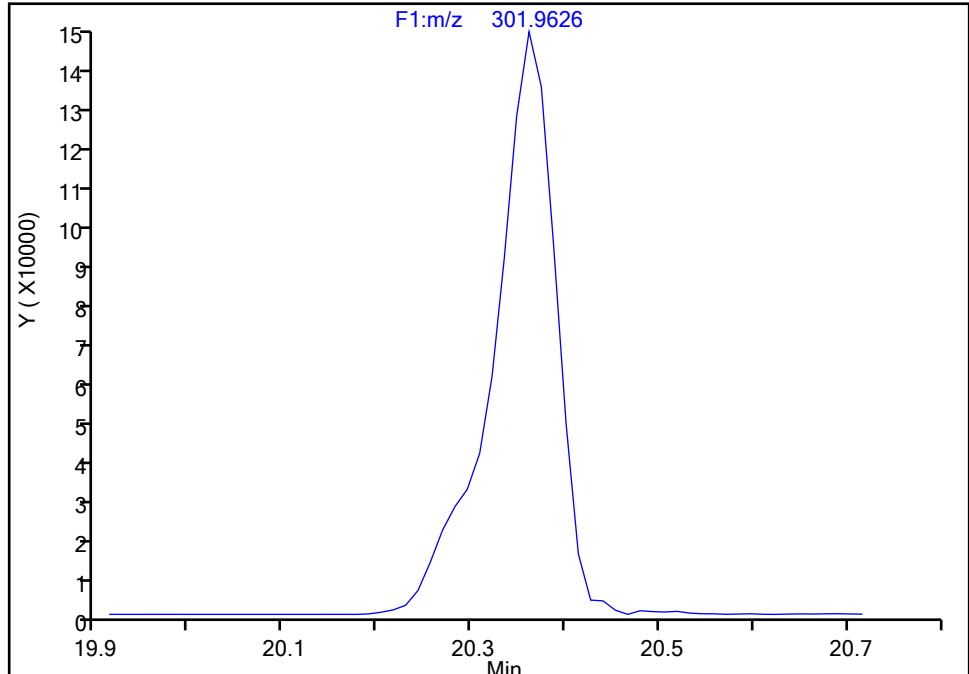
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Instrument ID: D2D
Lims ID: 140-36689-A-2-C Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 1

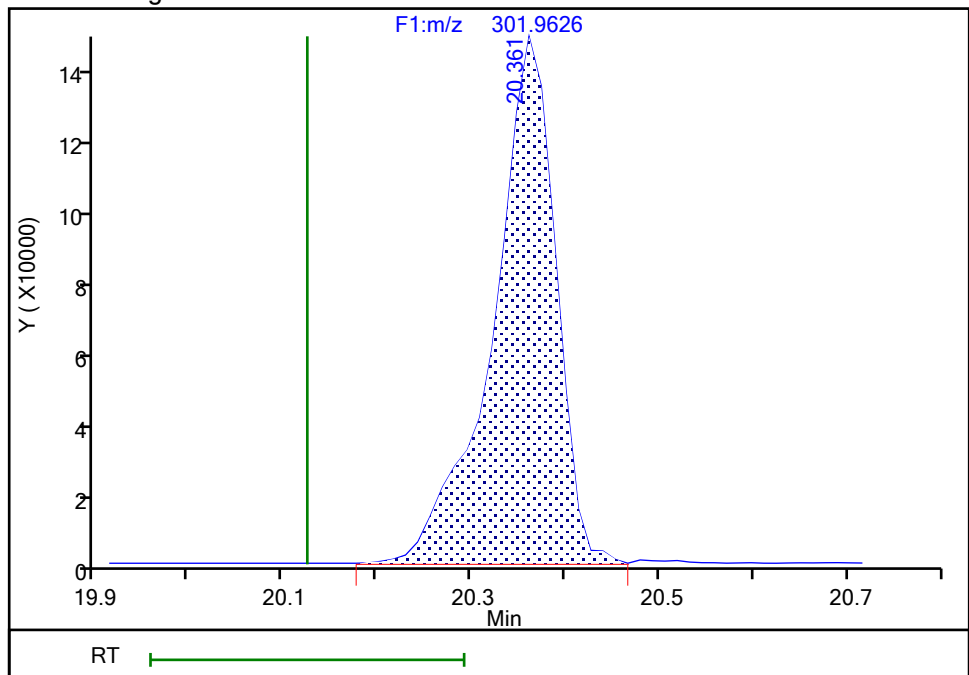
Not Detected
Expected RT: 20.12

Processing Integration Results



RT: 20.36
Area: 667577
Amount: 75.434919
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 18:42:00 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d

Injection Date: 11-Jun-2024 17:06:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 2 COMBINED

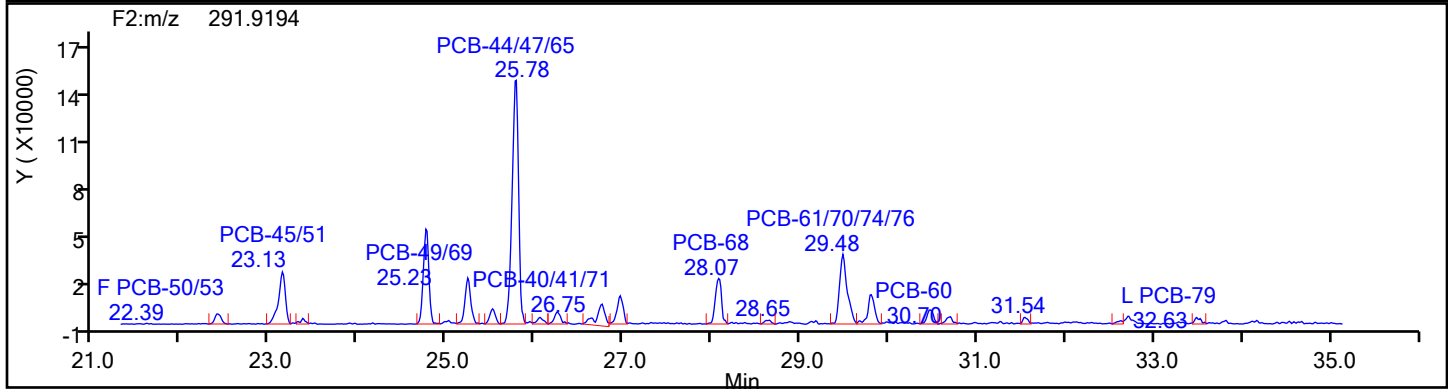
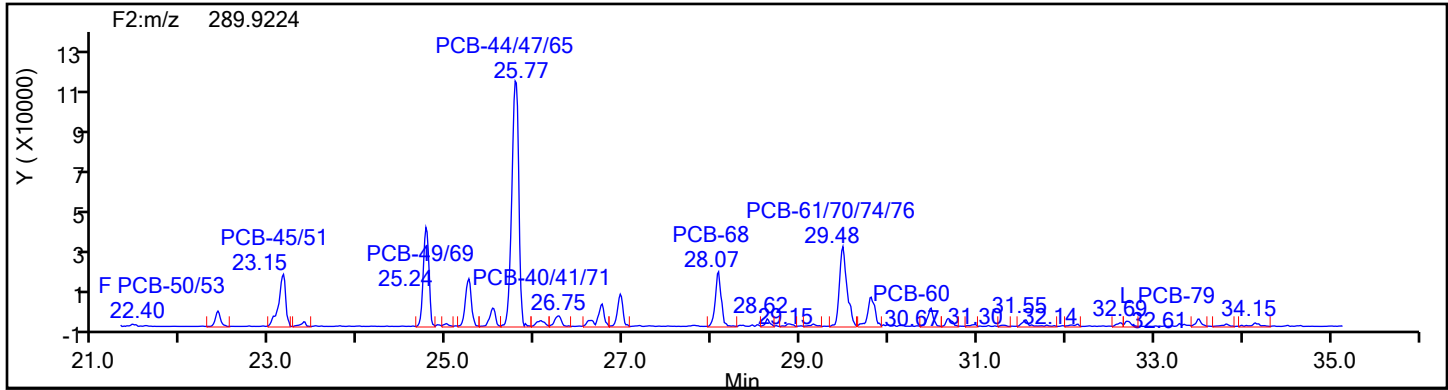
Worklist#: 87502

Sample Line#: 10

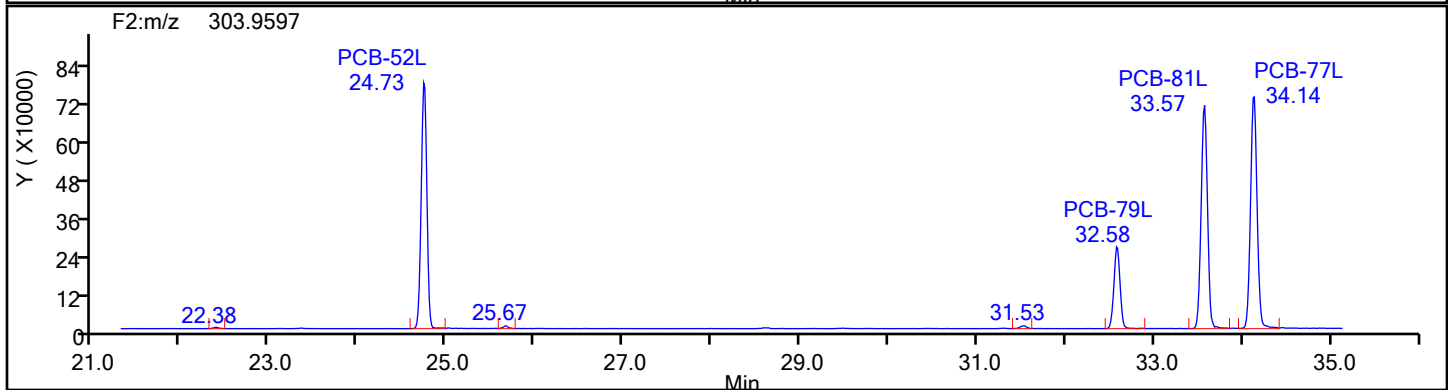
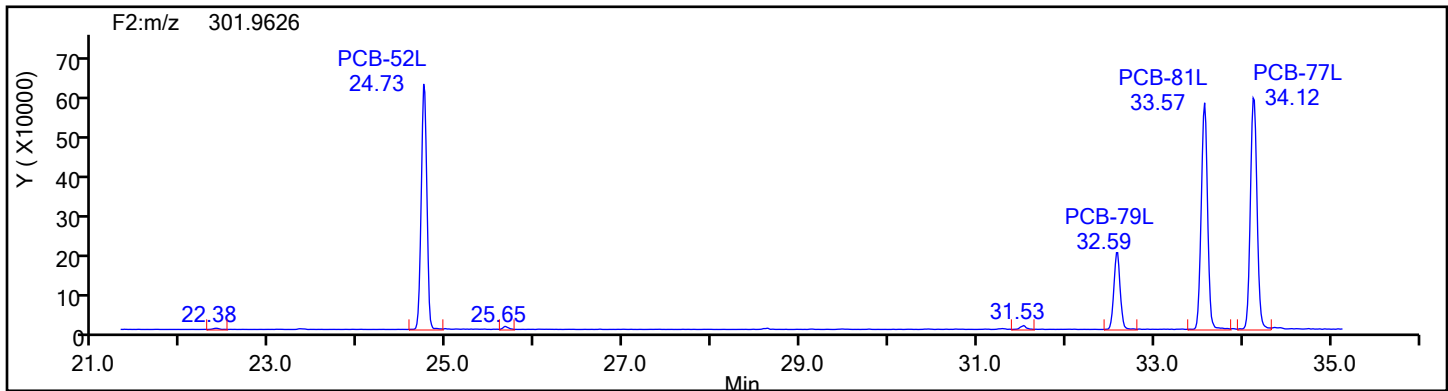
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



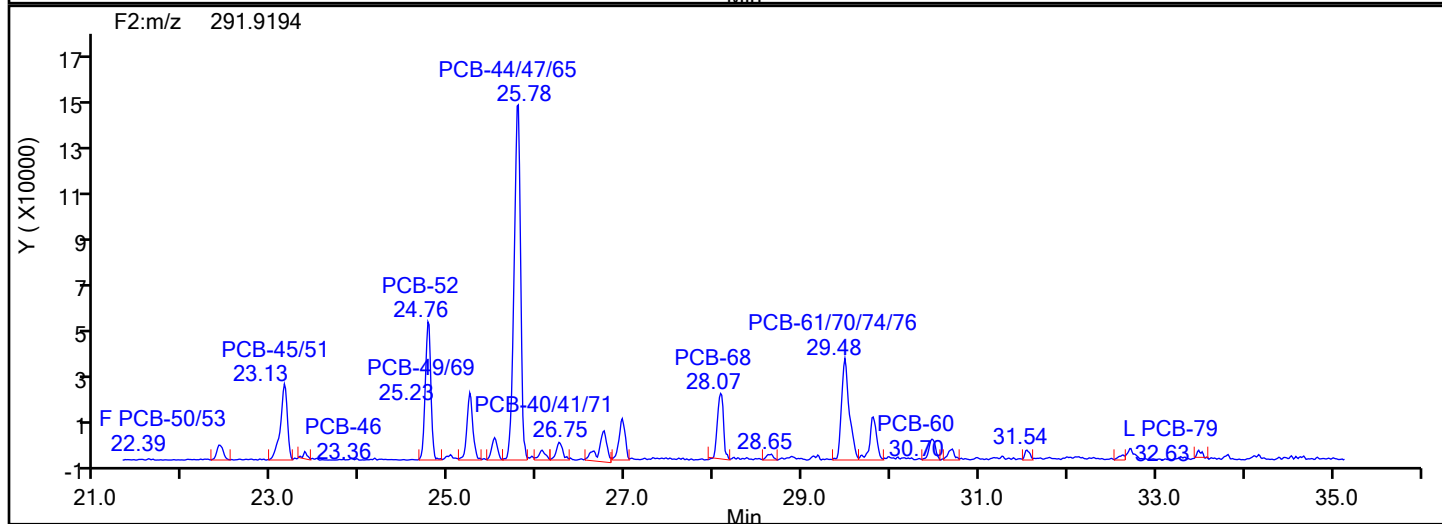
TePCB F2 Standards



Column Dia: 0.25 mm

Chromatogram showing peaks for PCBs in the 21-35 minute range. The y-axis is labeled 'Y (X10000)' and the x-axis is labeled 'Min'.

Peak Label	Retention Time (Min)
F PCB-50/53	22.40
PCB-45/51	23.15
PCB-46	23.38
PCB-49/69	24.24
PCB-52	24.76
PCB-44/47/65	25.77
PCB-40/41/71	26.75
PCB-68	28.07
PCB-61/70/74/76	29.48
PCB-66	29.80
PCB-60	30.67
PCB-79	32.61
PCB-79	34.15



Eurofins Knoxville

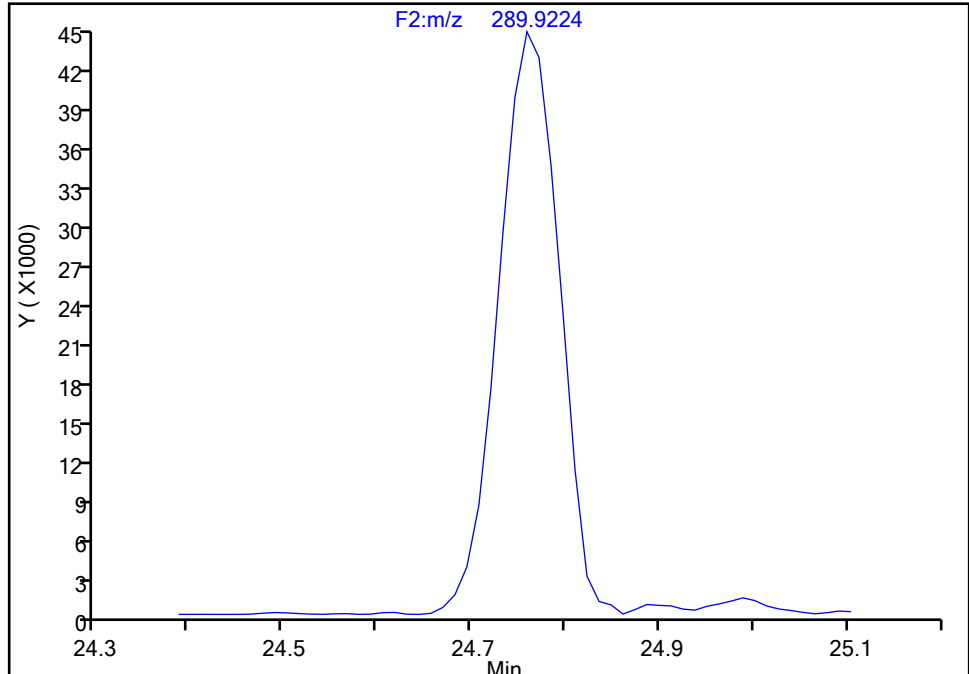
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Instrument ID: D2D
Lims ID: 140-36689-A-2-C Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 1

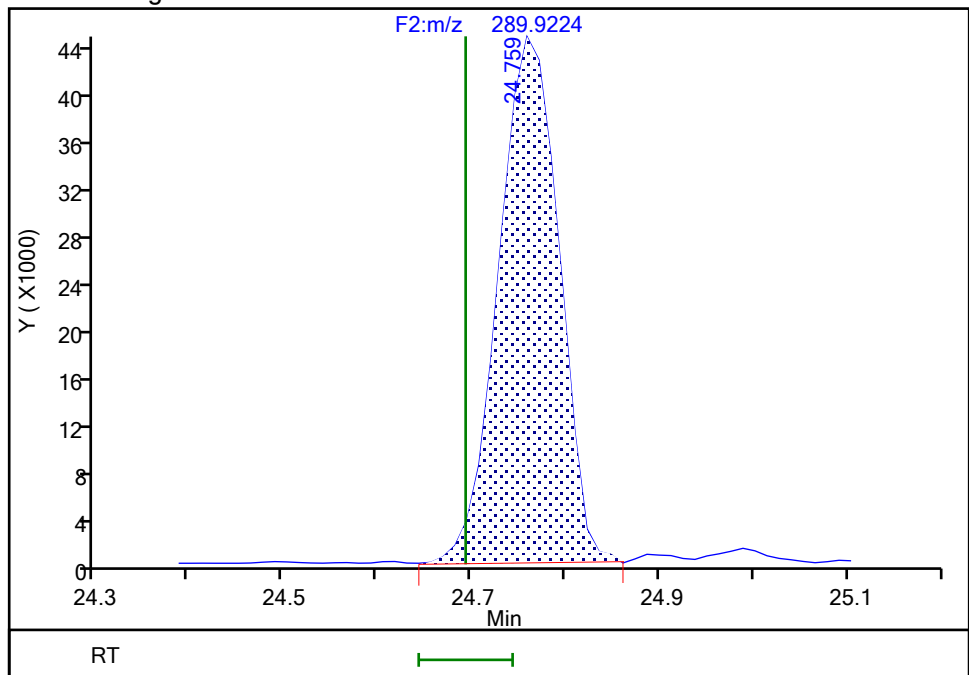
Not Detected
Expected RT: 24.69

Processing Integration Results



RT: 24.76
Area: 200117
Amount: 7.305899
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 18:12:41 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d

Injection Date: 11-Jun-2024 17:06:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 2 COMBINED

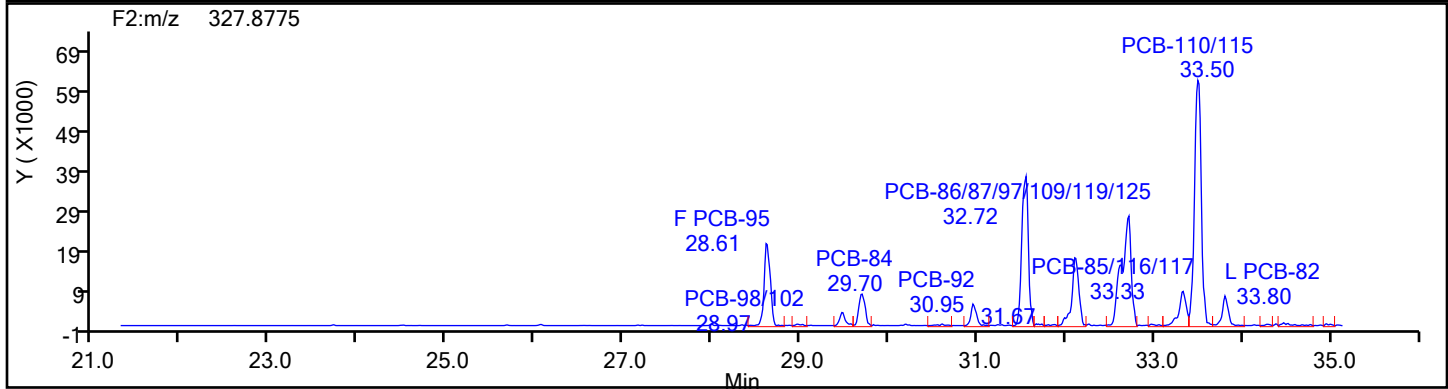
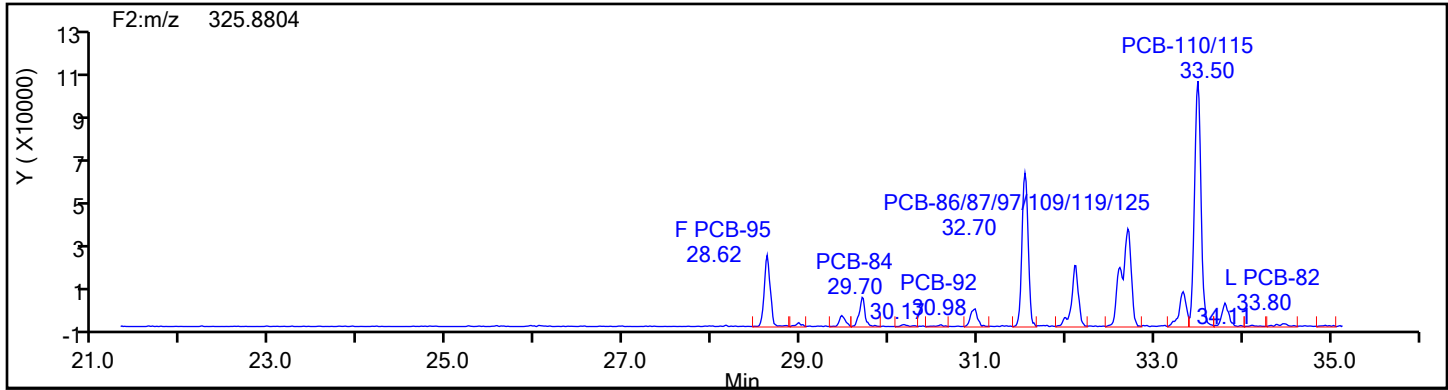
Worklist#: 87502

Sample Line#: 10

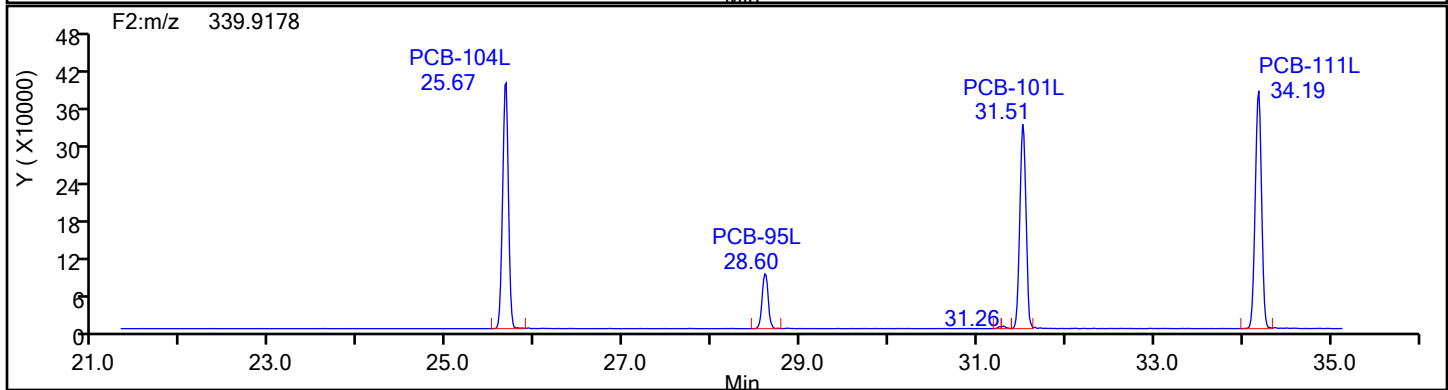
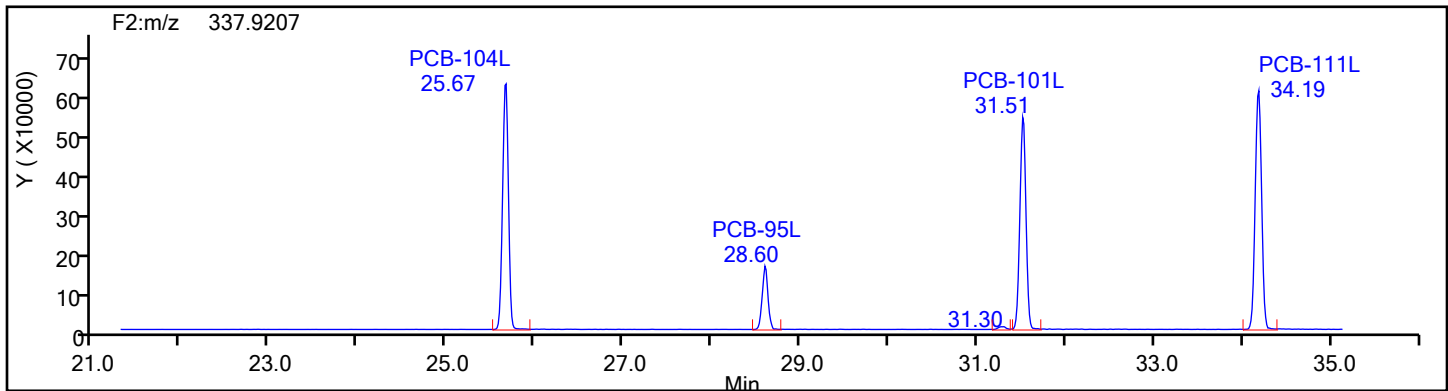
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2

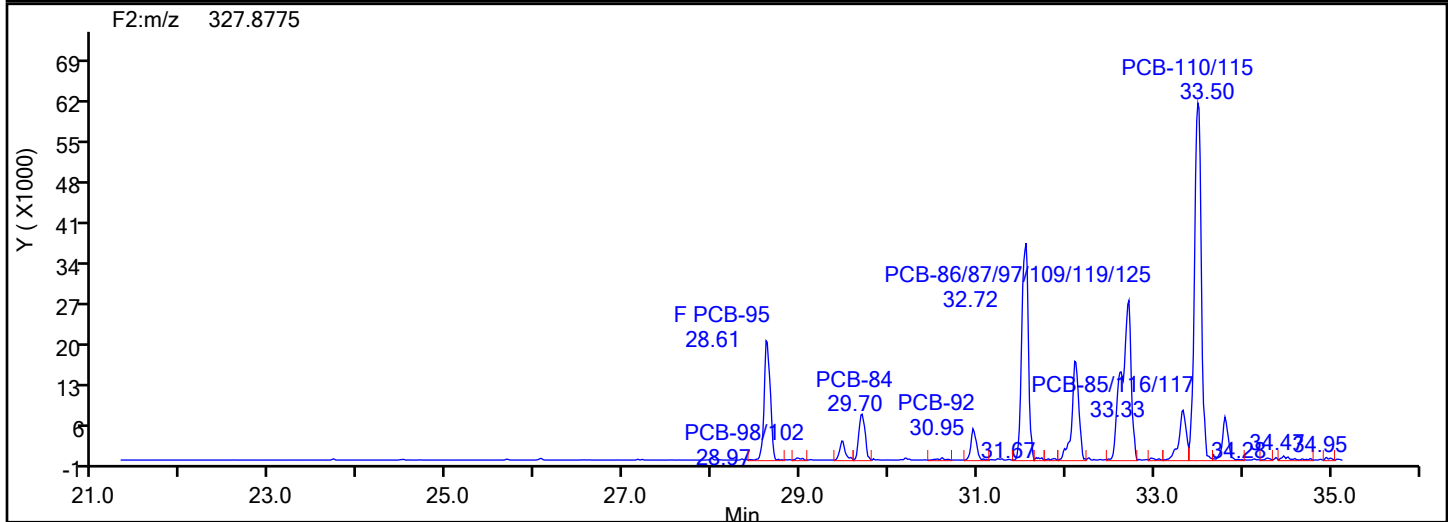
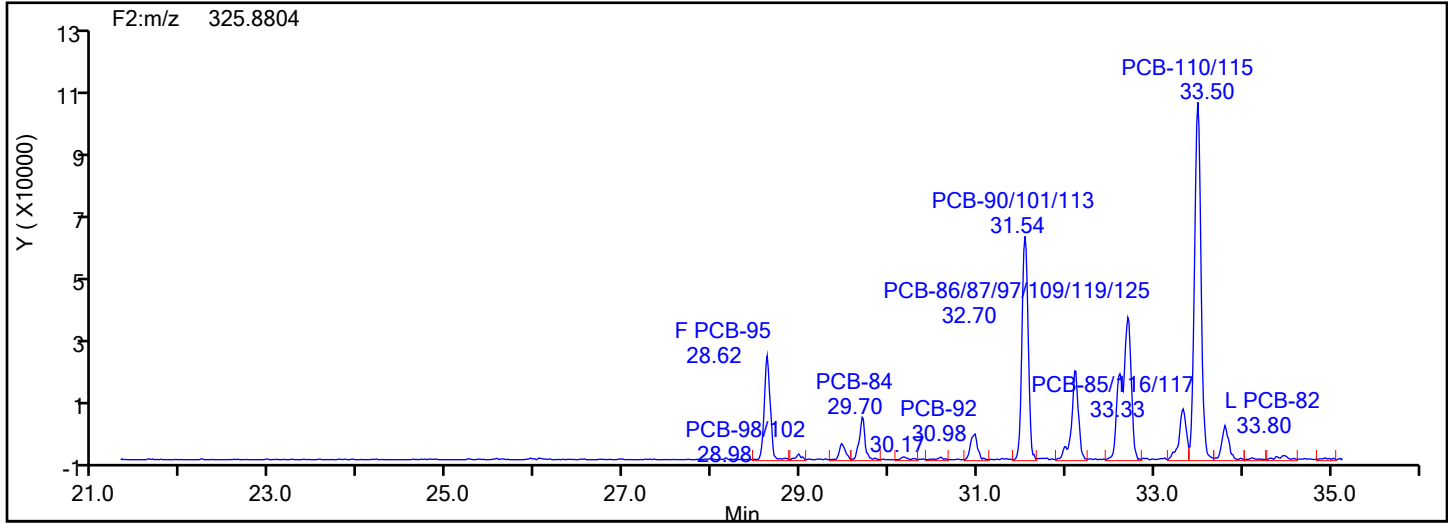


PePCB F2 Standards

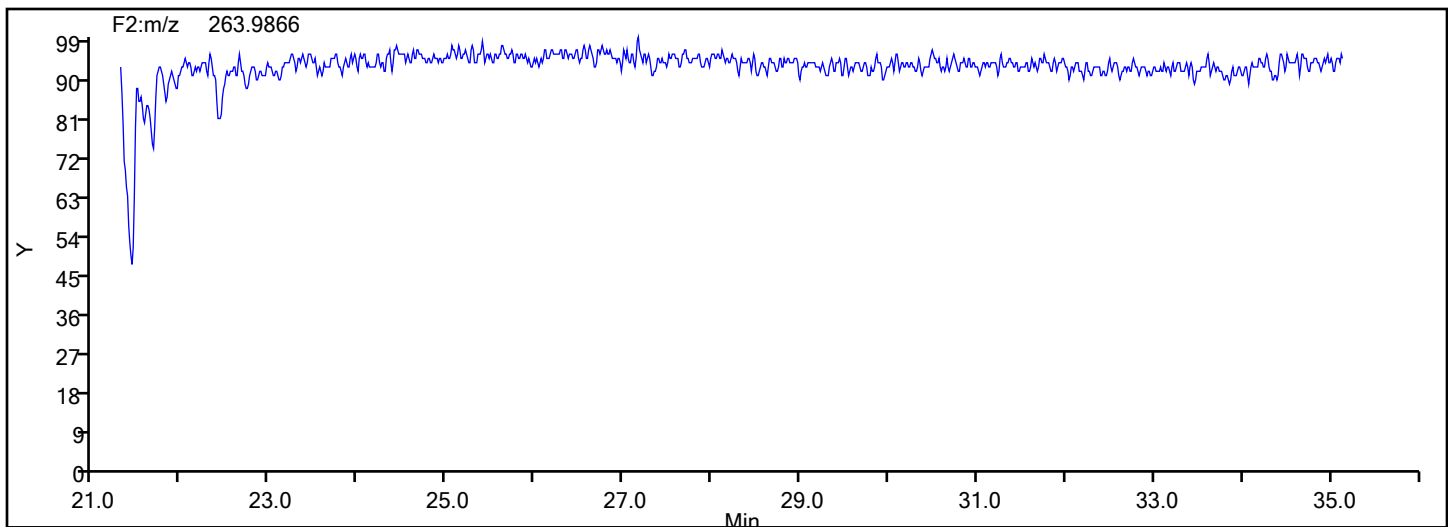


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



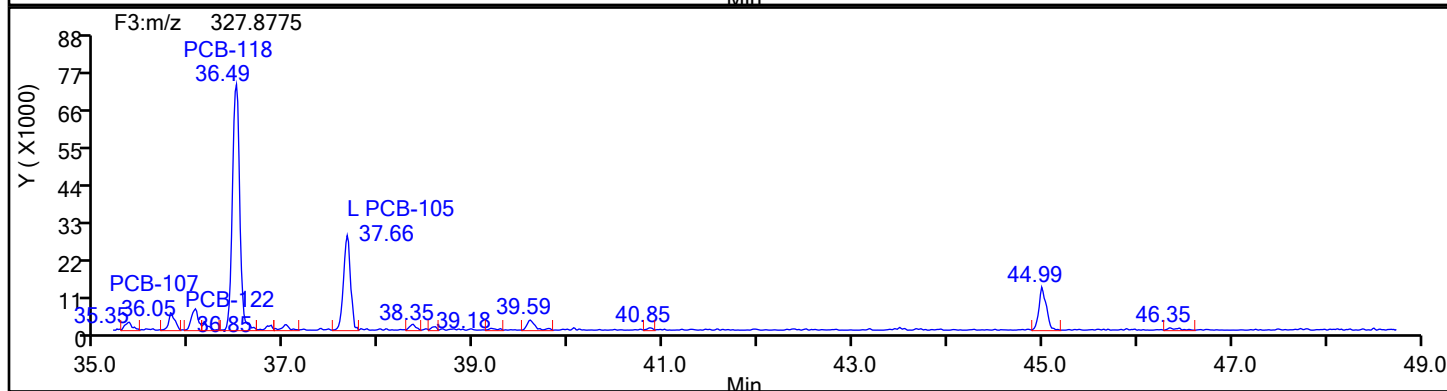
PePCB F2 Lock Mass



Column Dia: 0.25 mm

Chromatogram showing the separation of PCBs. The x-axis is labeled 'Min' and ranges from 35.0 to 49.0. The y-axis is labeled 'Y (X10000)' and ranges from 0 to 14. The chromatogram displays several peaks, with the following retention times and labels:

Retention Time (Min)	Label
35.35	PCB-128
35.56	PCB-114
36.49	PCB-118
37.66	L PCB-105
38.37	
38.56	
39.60	
40.86	
43.52	
45.02	



F3:m/z 337.9207

Y (X100000)

Min

PCB-123L 36.13

PCB-105L 37.63

PCB-127L 39.10

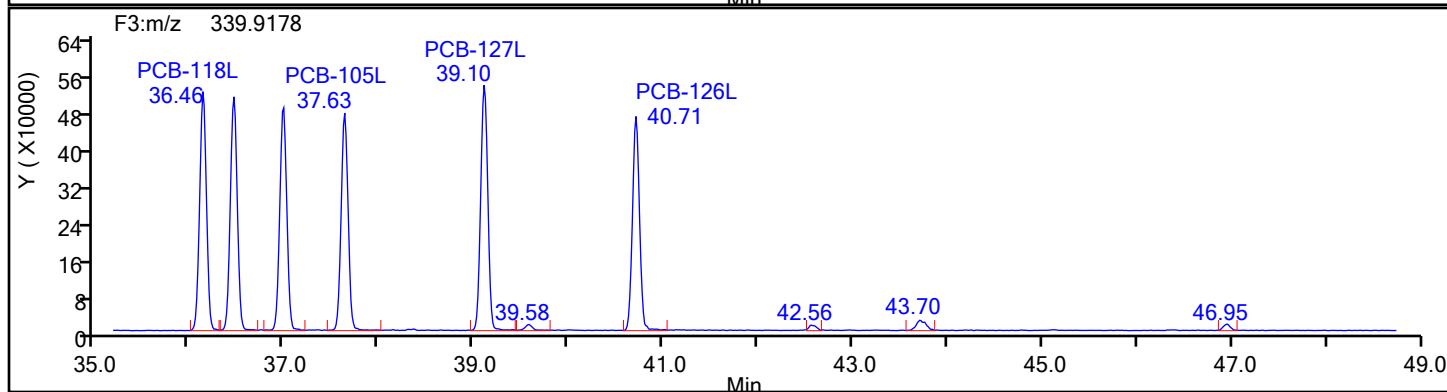
PCB-126L 40.71

39.58

42.57

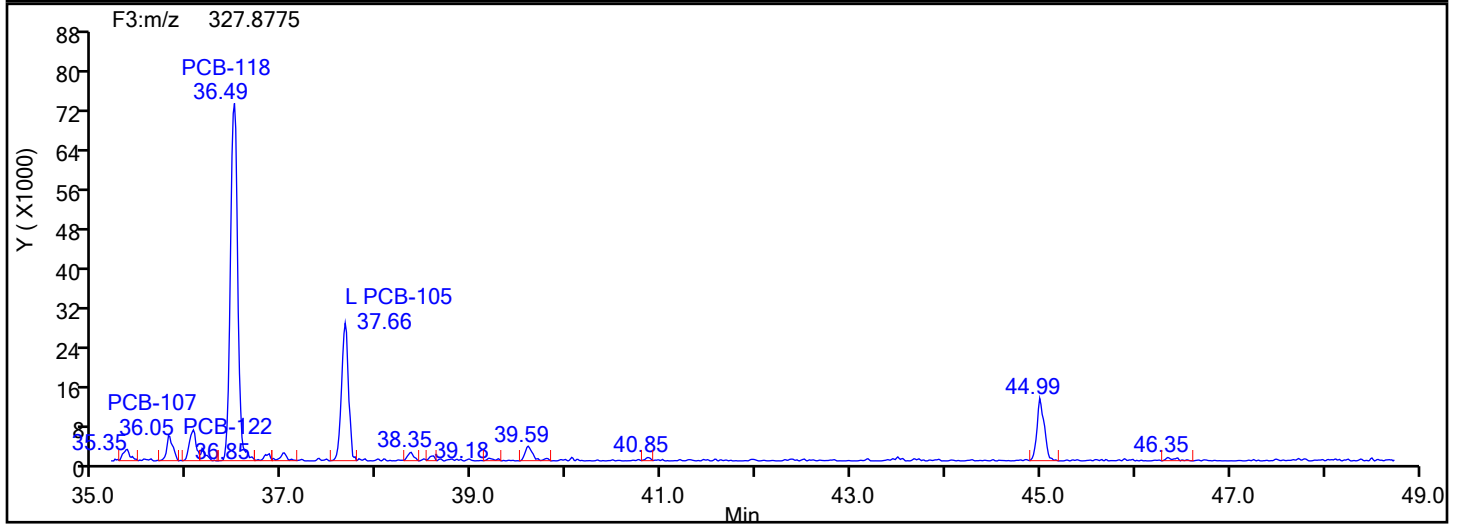
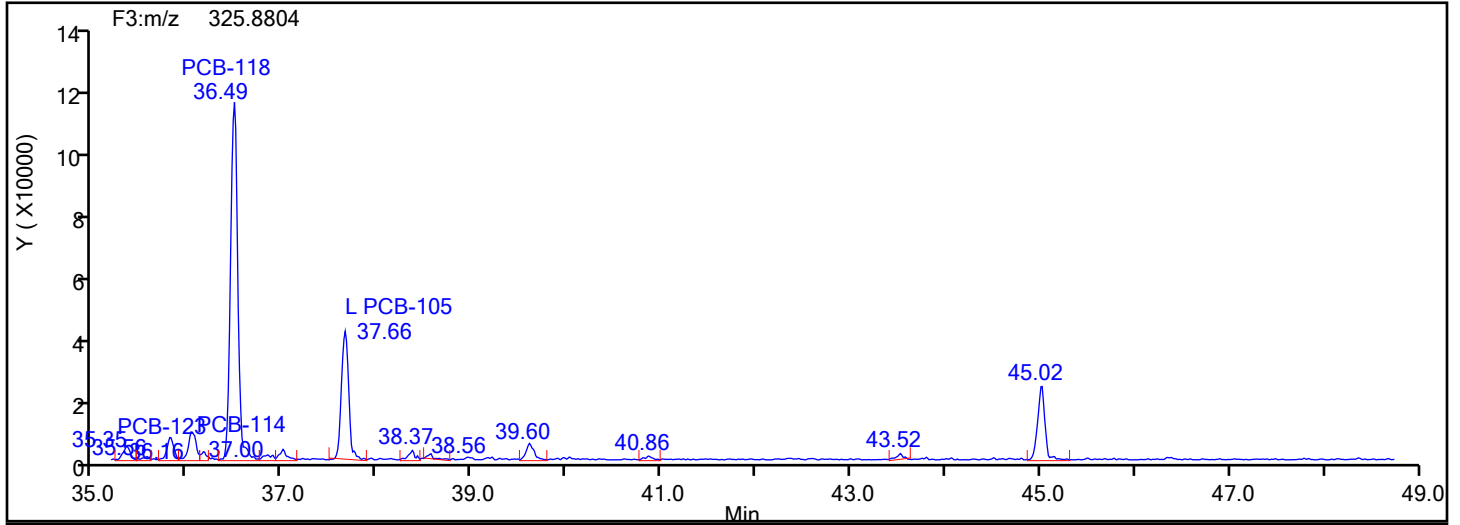
43.72

46.94

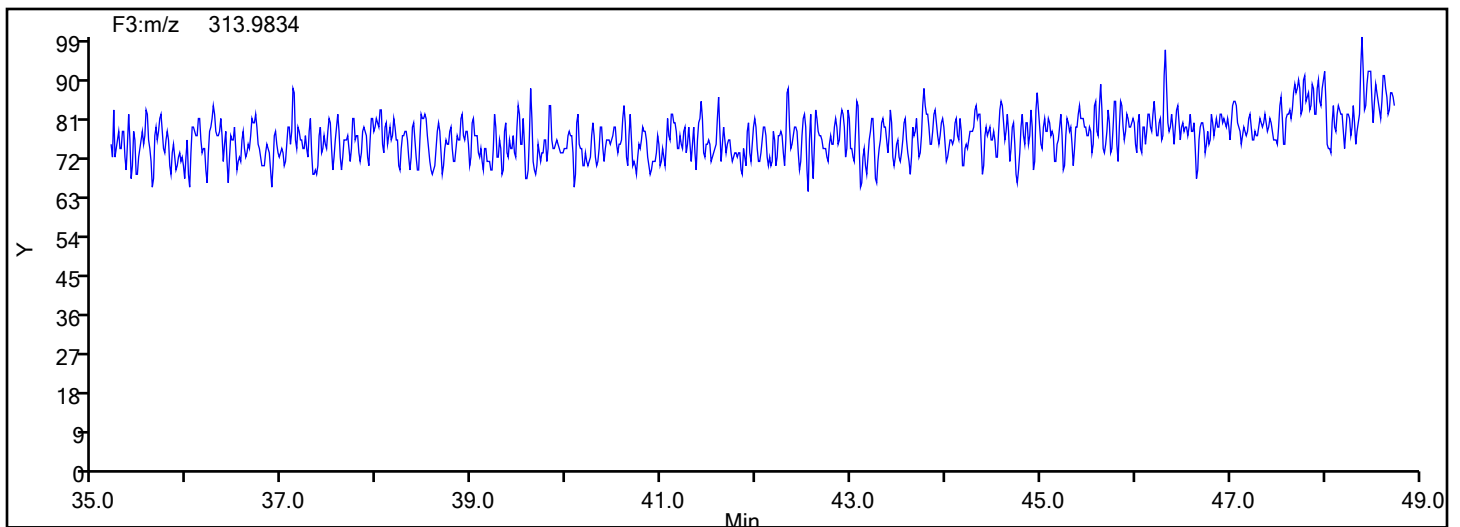


Eurofins Knoxville

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Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

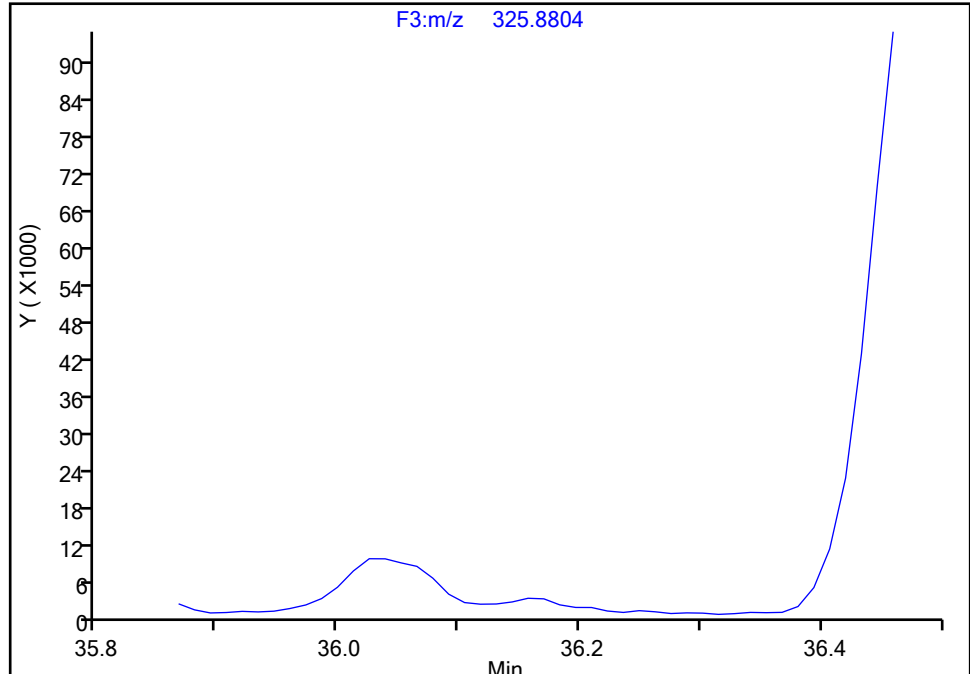
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Injection Date: 11-Jun-2024 17:06:00 Instrument ID: D2D
Lims ID: 140-36689-A-2-C Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-123, CAS: 65510-44-3

Signal: 1

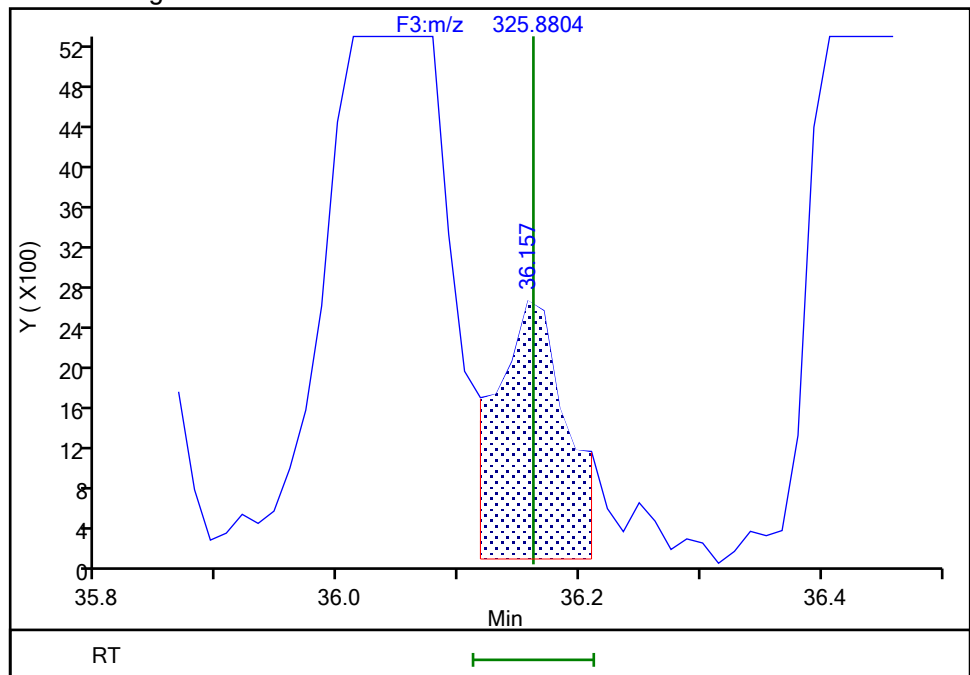
Not Detected
Expected RT: 36.16

Processing Integration Results



RT: 36.16
Area: 9959
Amount: 0.267655
Amount Units: pg/ul

Manual Integration Results

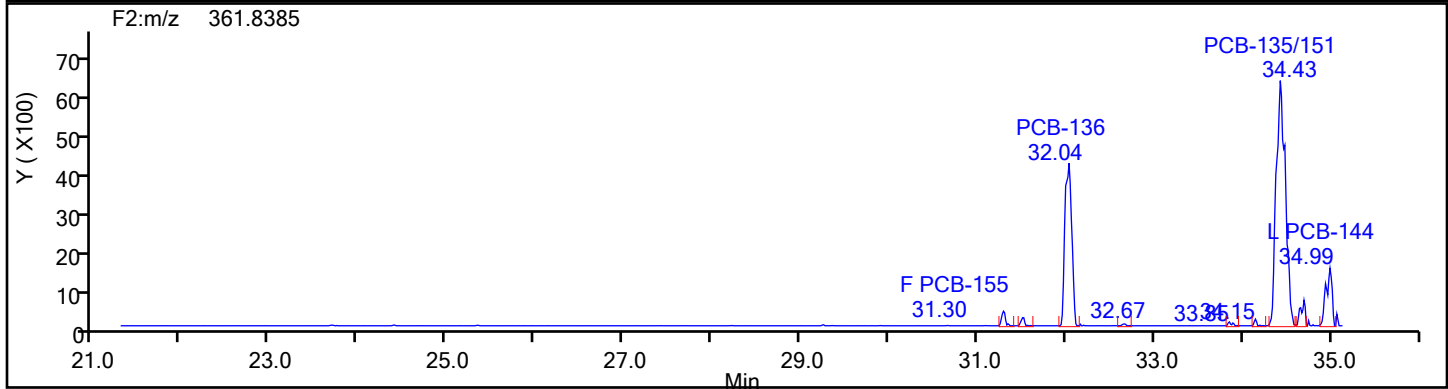
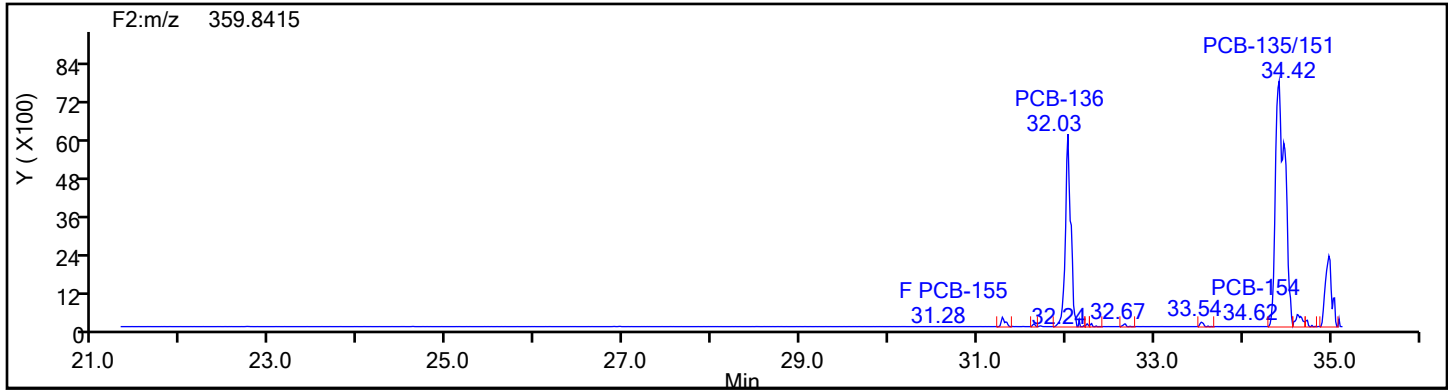


Reviewer: Q9DB, 11-Jun-2024 18:17:02 -04:00:00 (UTC)

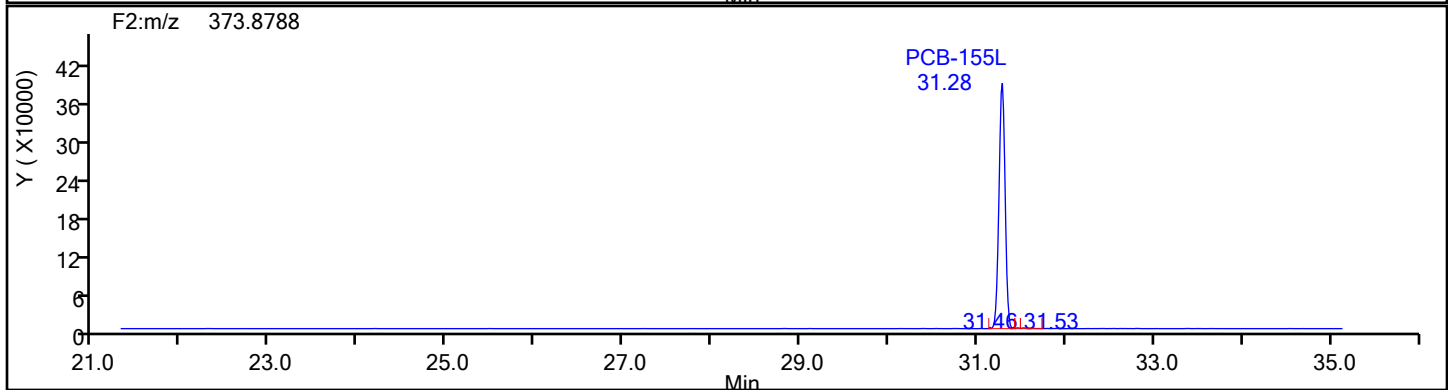
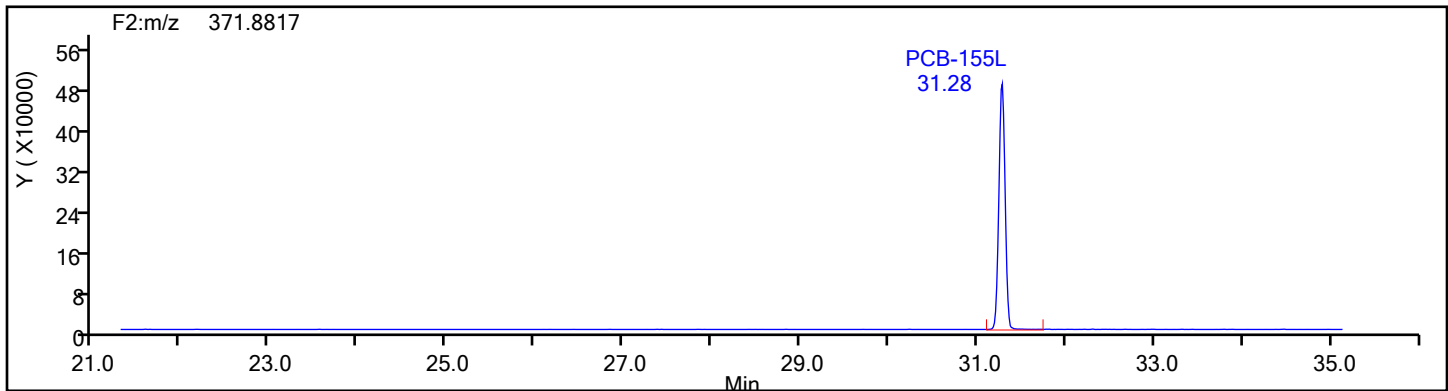
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Eurofins Knoxville

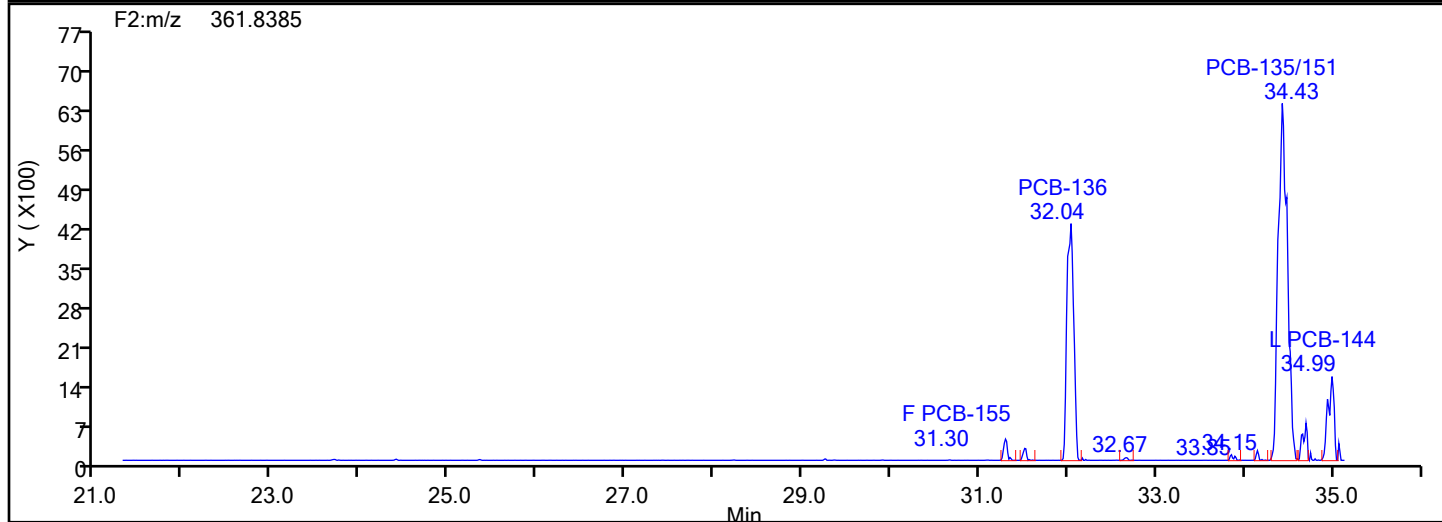
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Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Standards



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d		
Injection Date:	11-Jun-2024 17:06:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23-NO.3 BOILER-RUN 2 COMBINED		
Worklist#:	87502	Sample Line#:	10
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
HxPCB F2			



F2:m/z 263.9866

Y

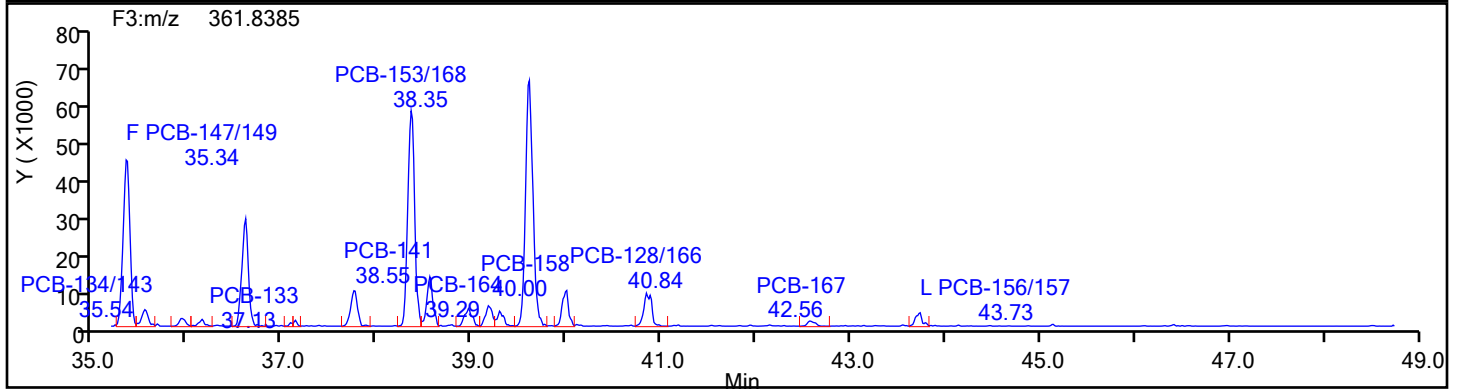
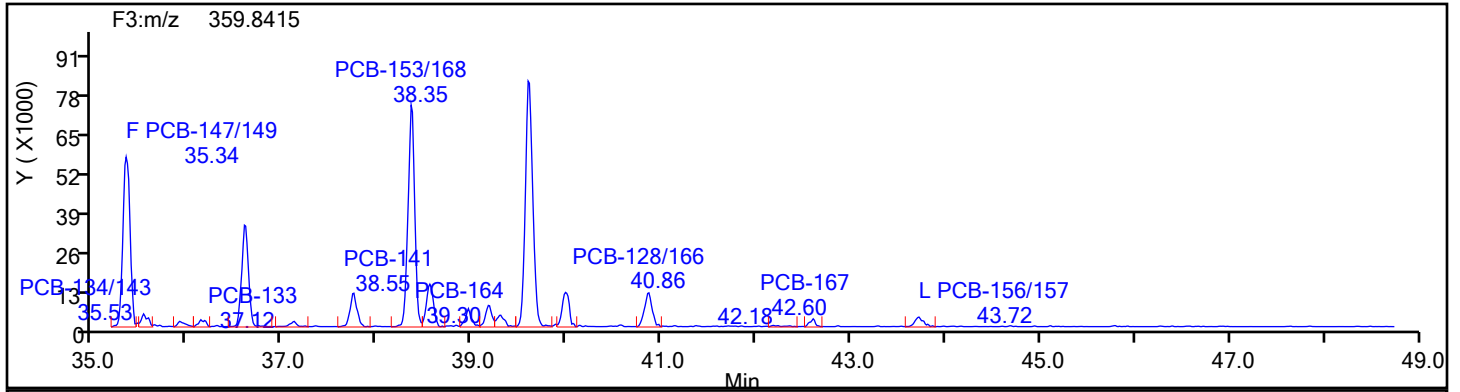
99
90
81
72
63
54
45
36
27
18
9
0

21.0 23.0 25.0 27.0 29.0 31.0 33.0 35.0

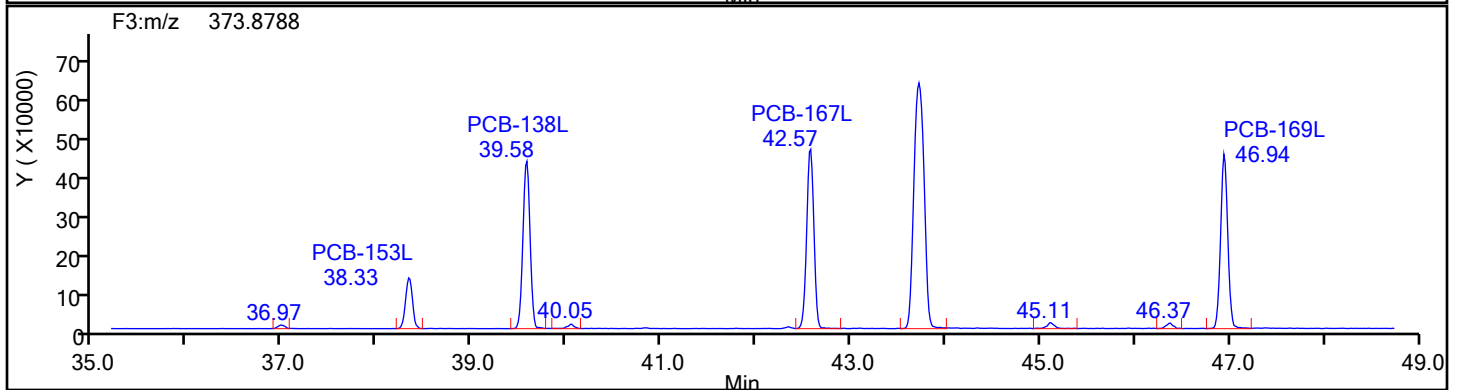
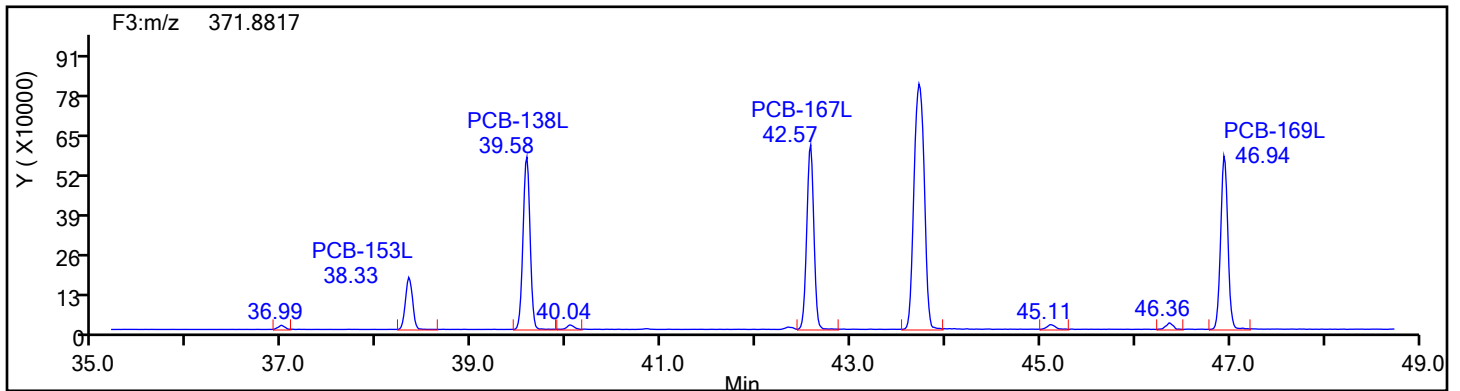
Min

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

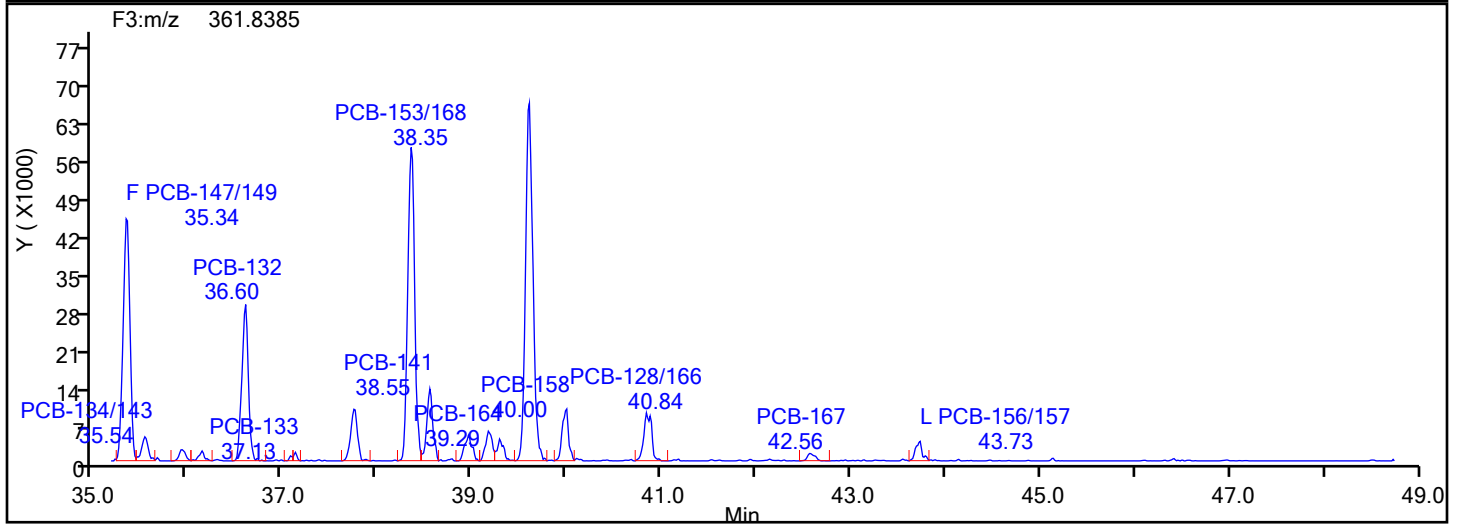
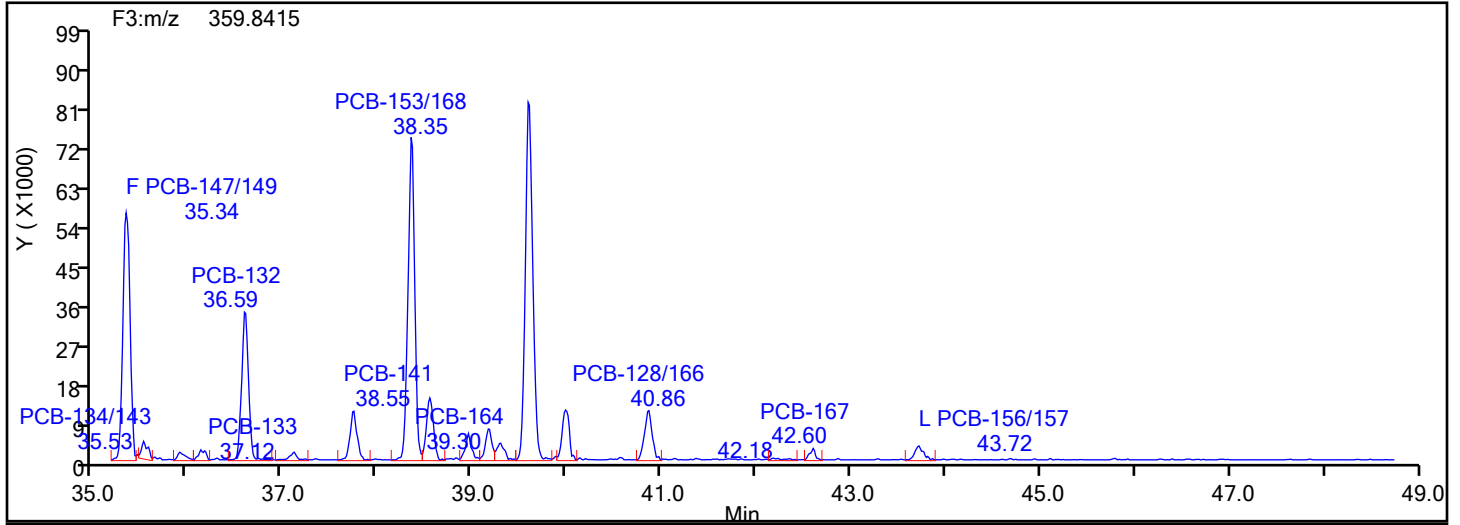


HxPCB F3 Standards

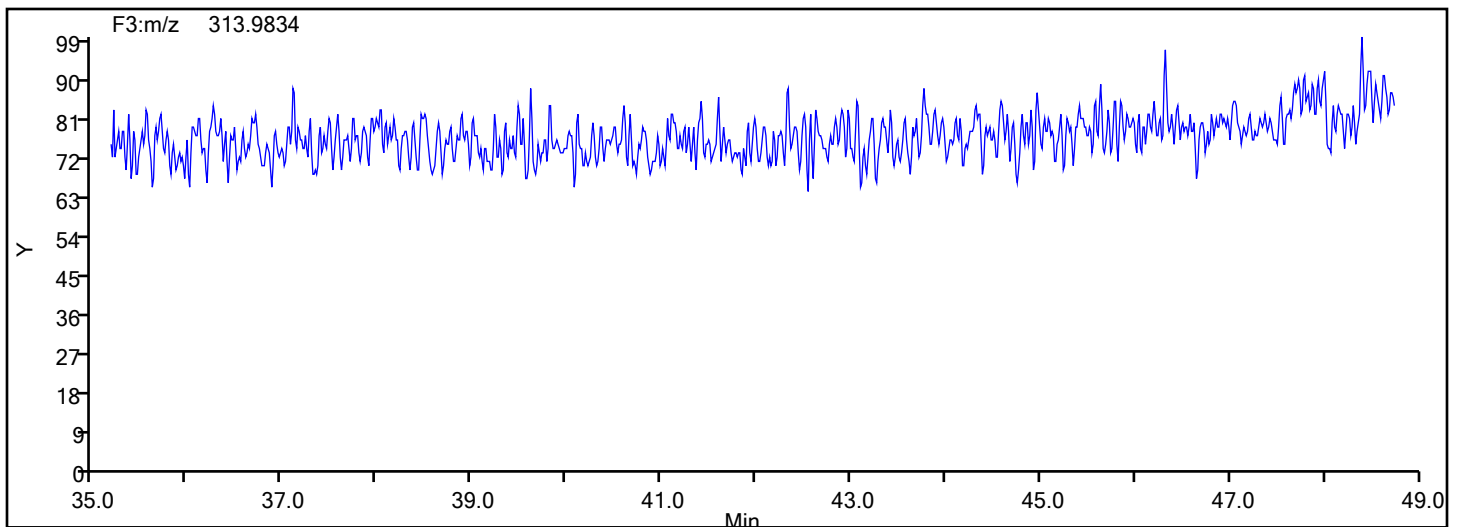


Eurofins Knoxville

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Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d

Injection Date: 11-Jun-2024 17:06:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 2 COMBINED

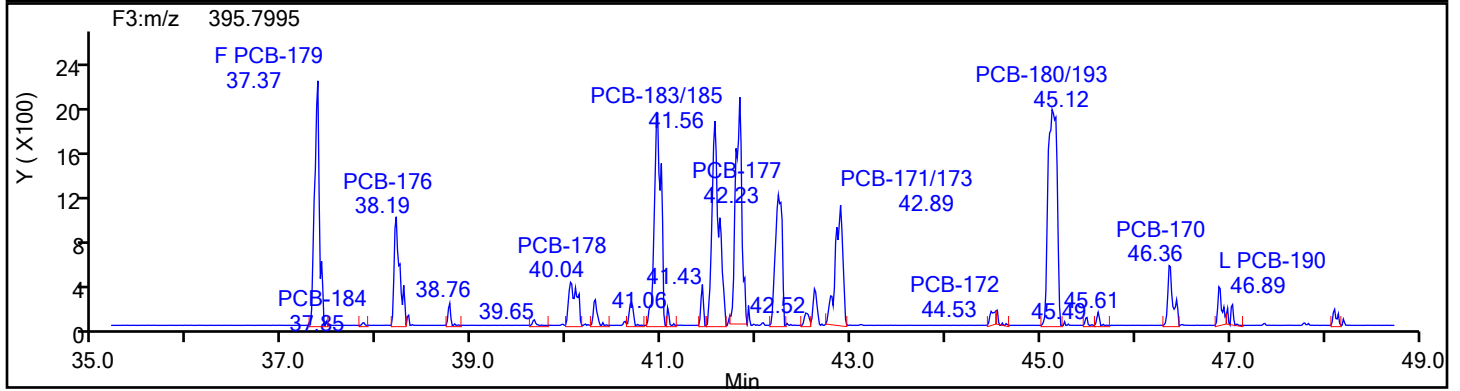
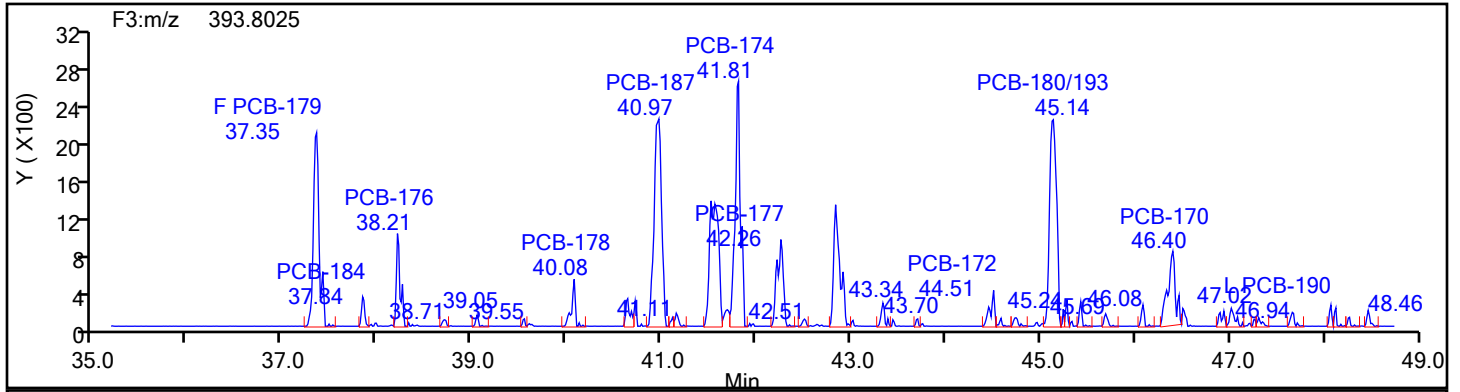
Worklist#: 87502

Sample Line#: 10

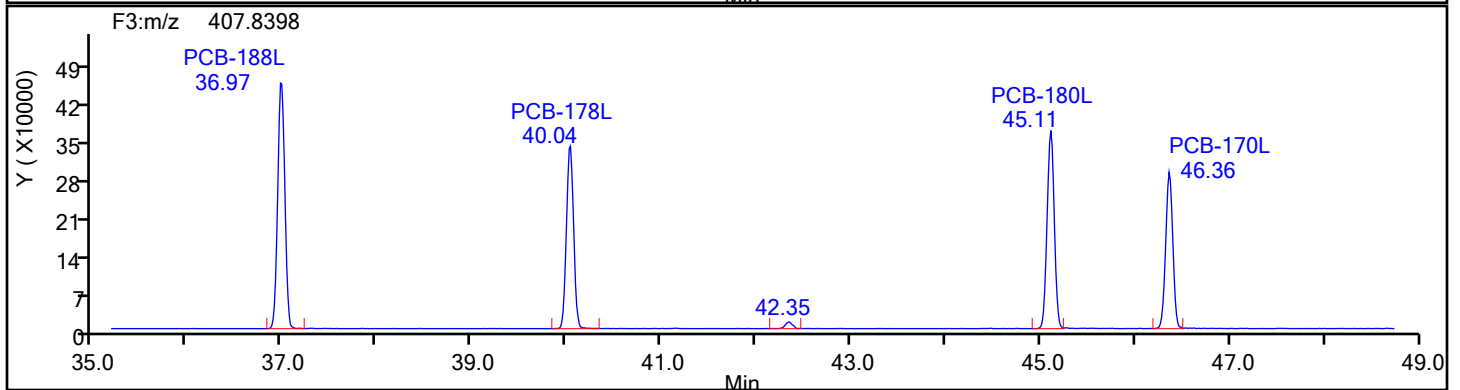
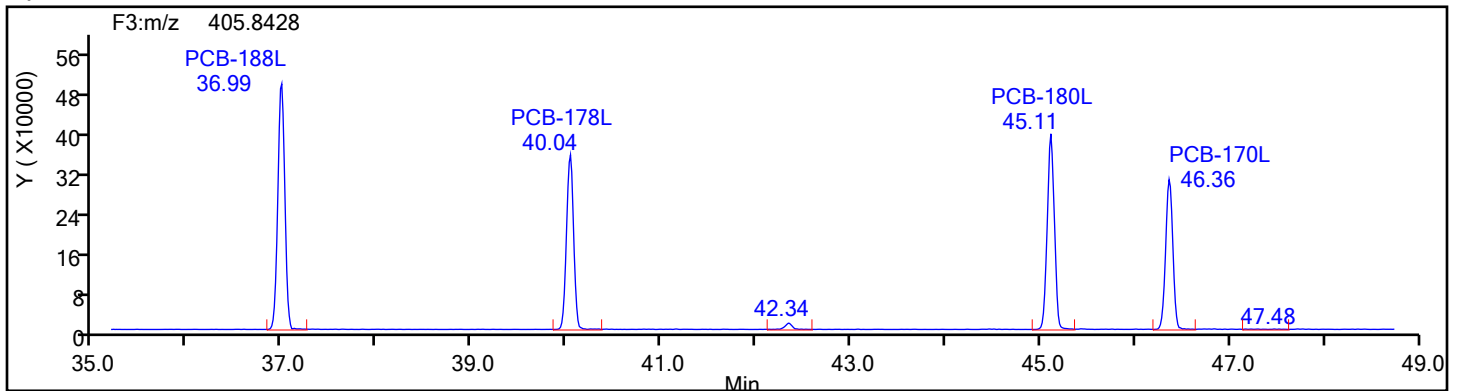
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3

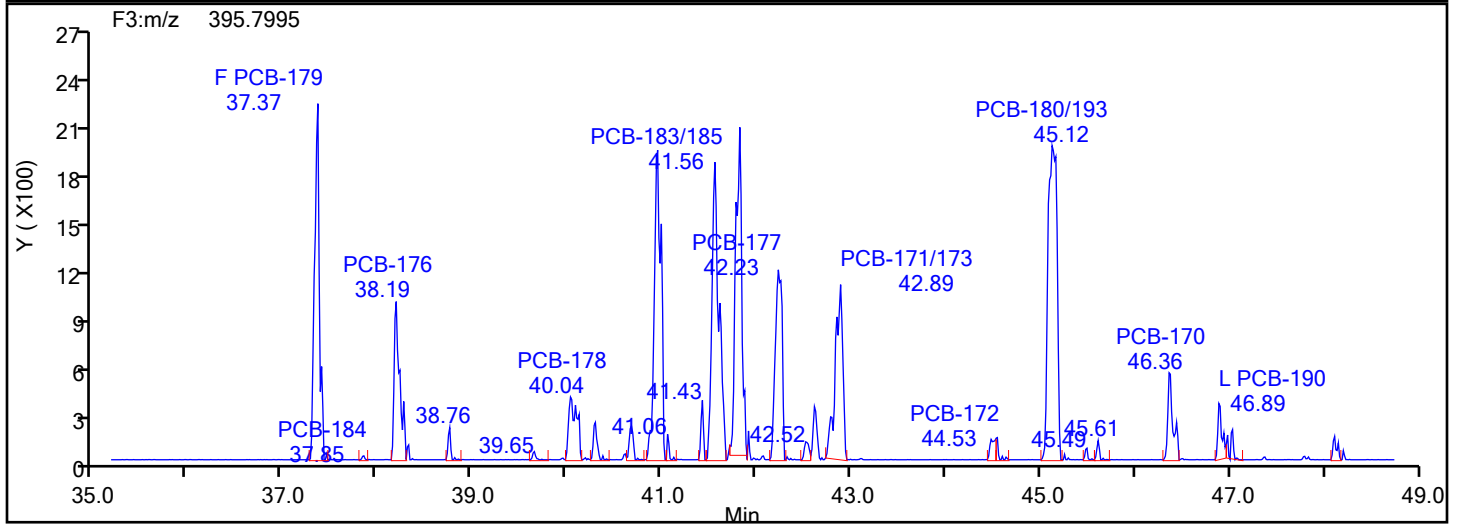
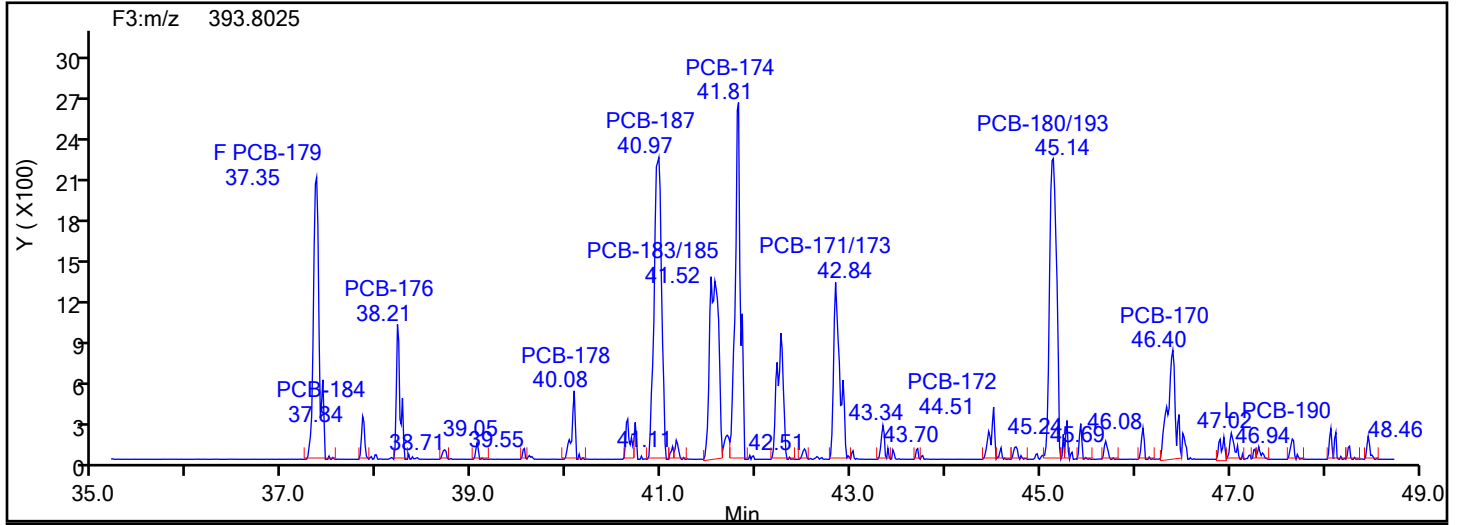


HpPCB F3 Standards

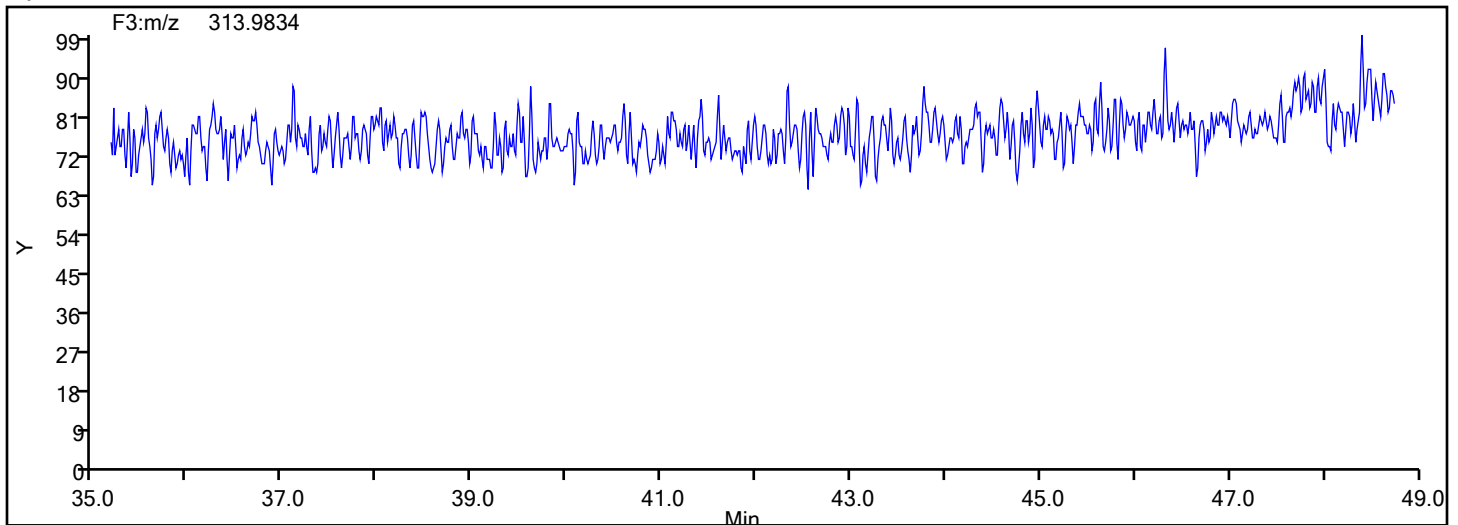


Eurofins Knoxville

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Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

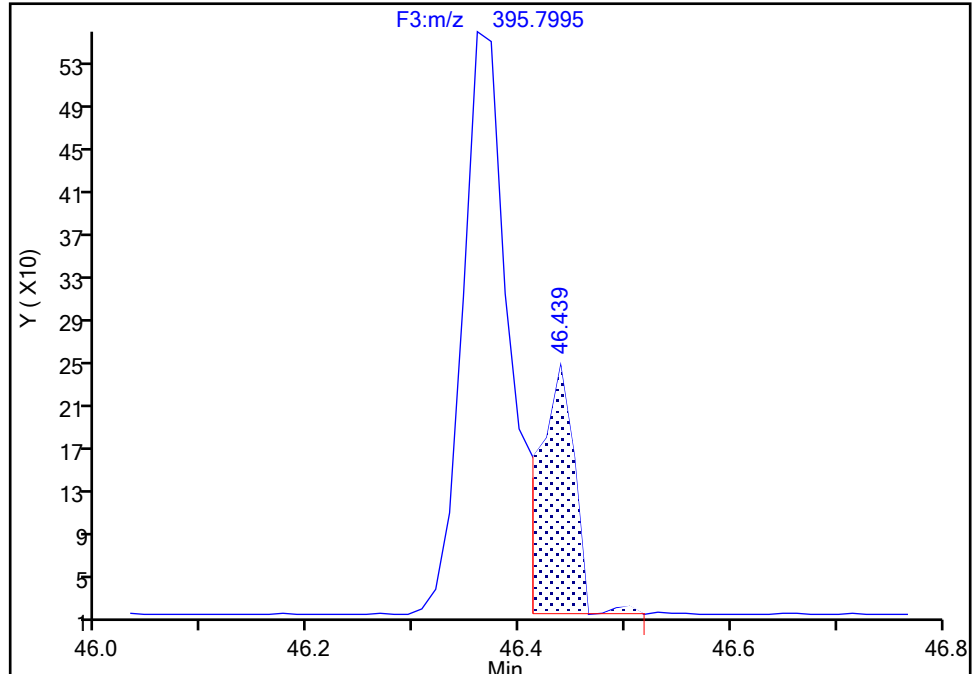
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Injection Date: 11-Jun-2024 17:06:00 Instrument ID: D2D
Lims ID: 140-36689-A-2-C Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-170, CAS: 35065-30-6

Signal: 2

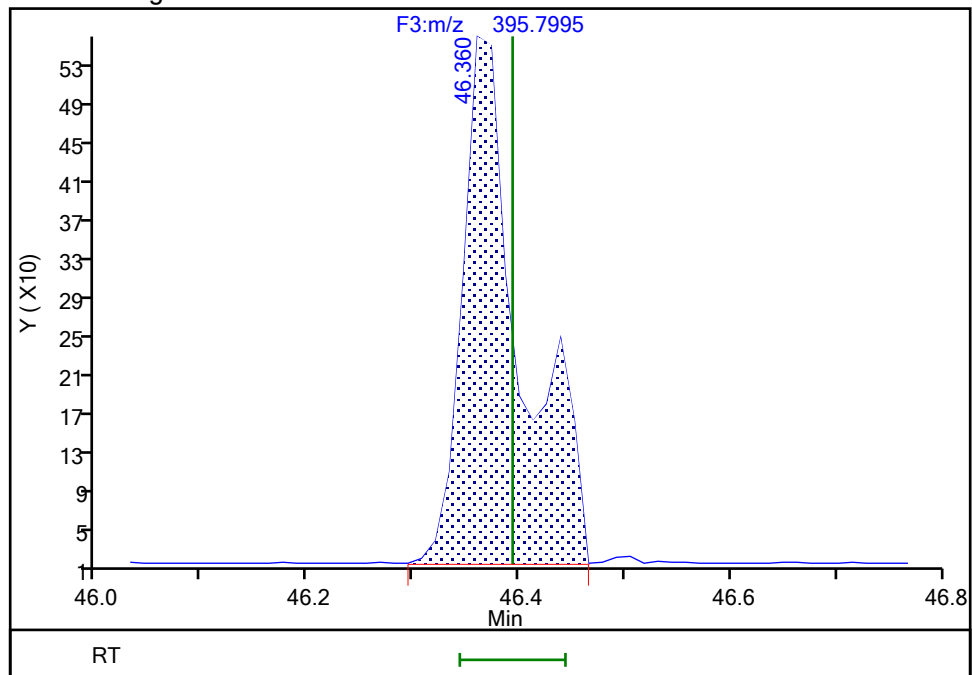
RT: 46.44
Area: 488
Amount: 0.093794
Amount Units: pg/ul

Processing Integration Results



RT: 46.36
Area: 2061
Amount: 0.179882
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 18:20:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

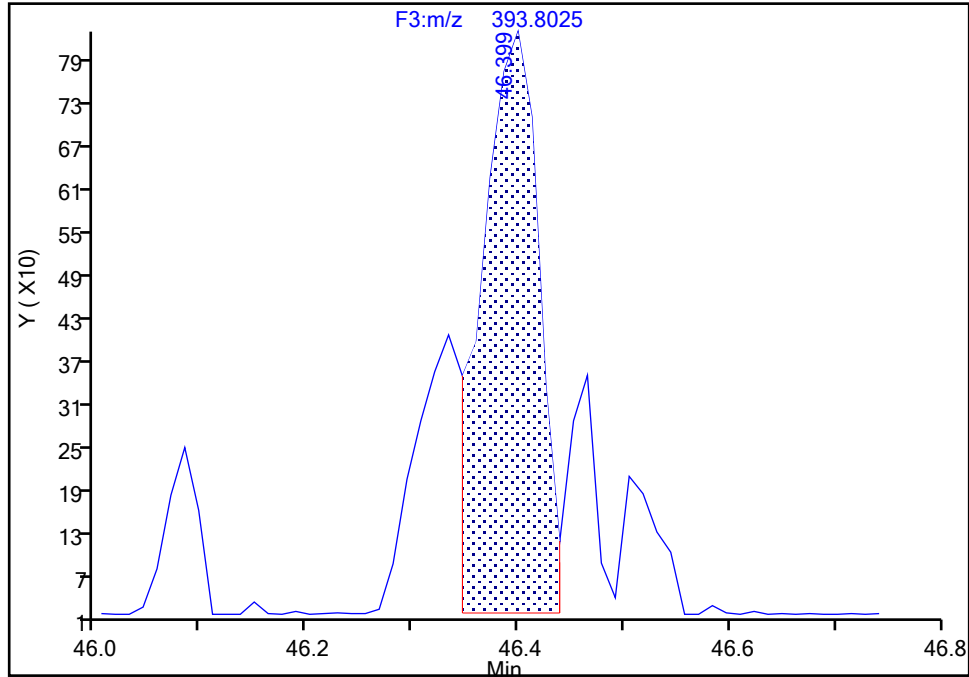
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Injection Date: 11-Jun-2024 17:06:00 Instrument ID: D2D
Lims ID: 140-36689-A-2-C Lab Sample ID: 140-36689-2
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-170, CAS: 35065-30-6

Signal: 1

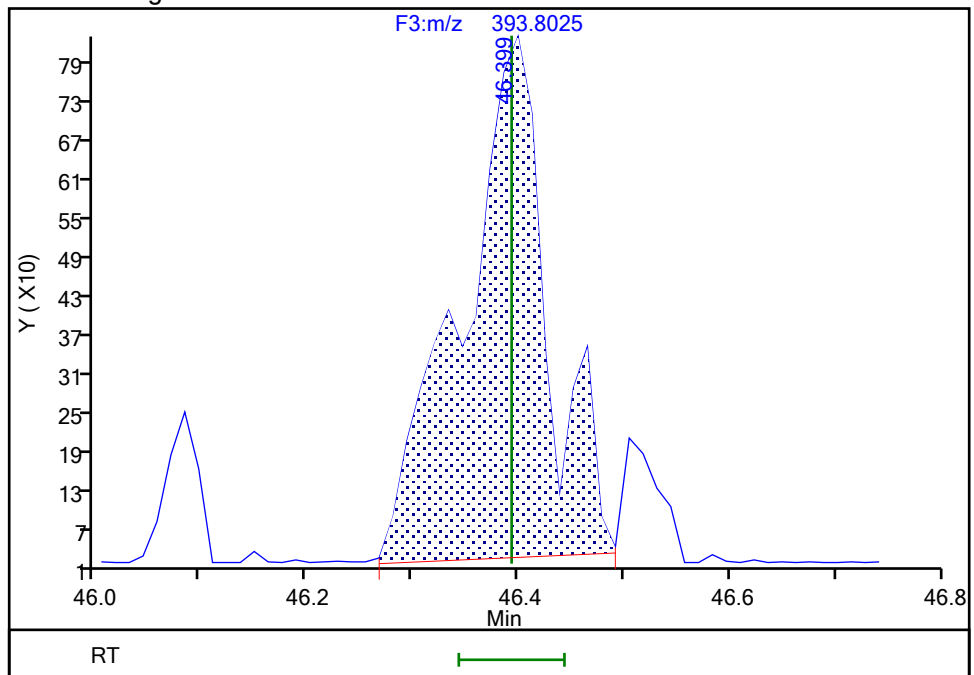
RT: 46.40
Area: 2969
Amount: 0.093794
Amount Units: pg/ul

Processing Integration Results



RT: 46.40
Area: 4569
Amount: 0.179882
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 18:20:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1058 of 3076

BASFHWC-G-015202510
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d

Injection Date: 11-Jun-2024 17:06:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 2 COMBINED

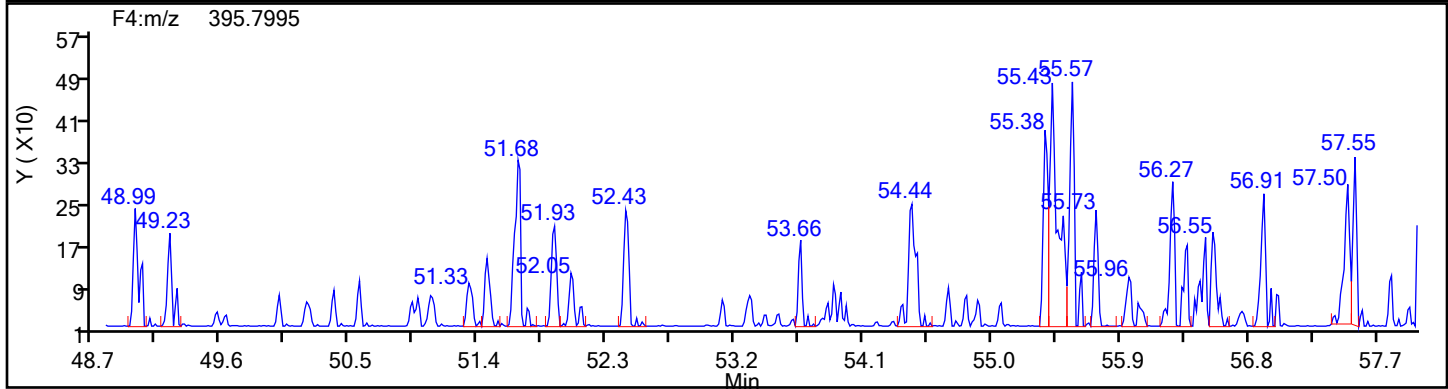
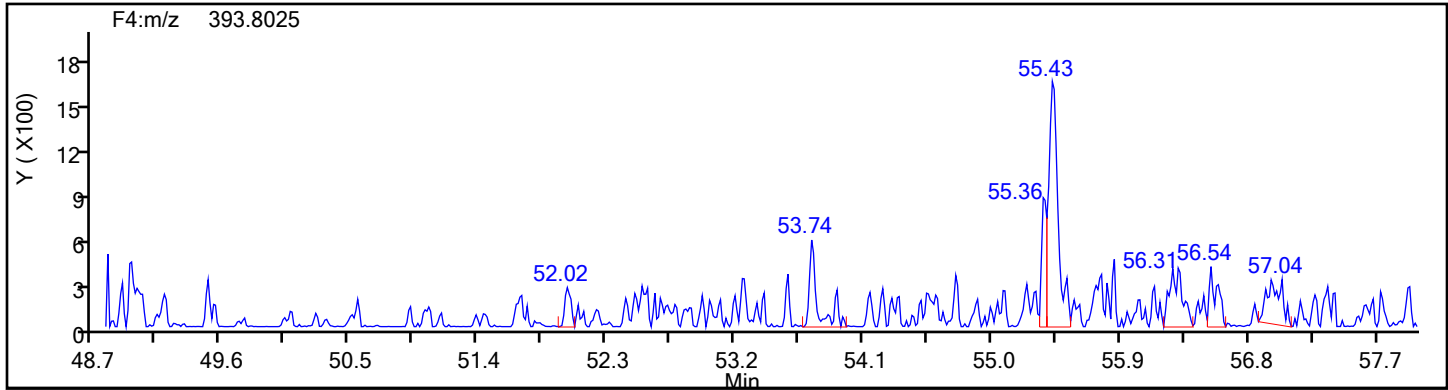
Worklist#: 87502

Sample Line#: 10

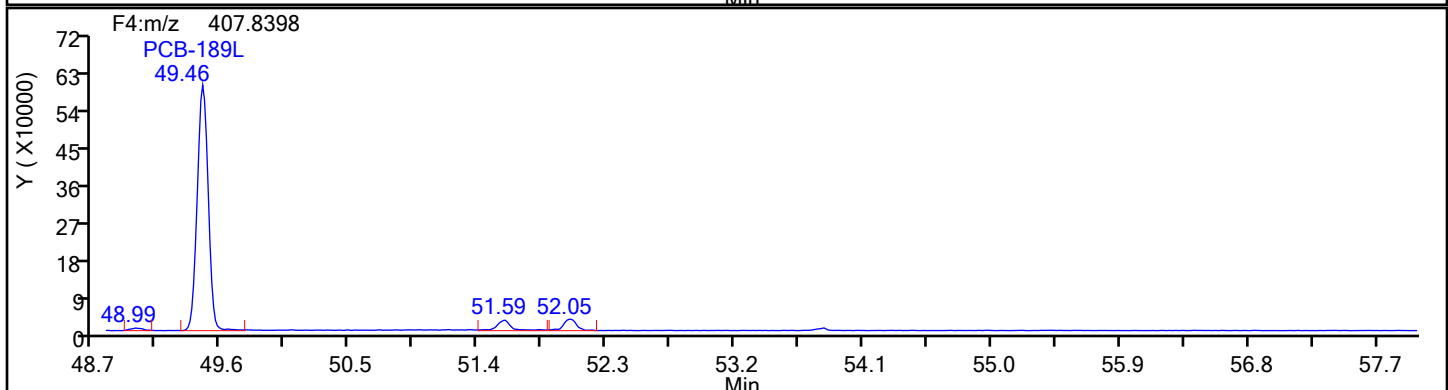
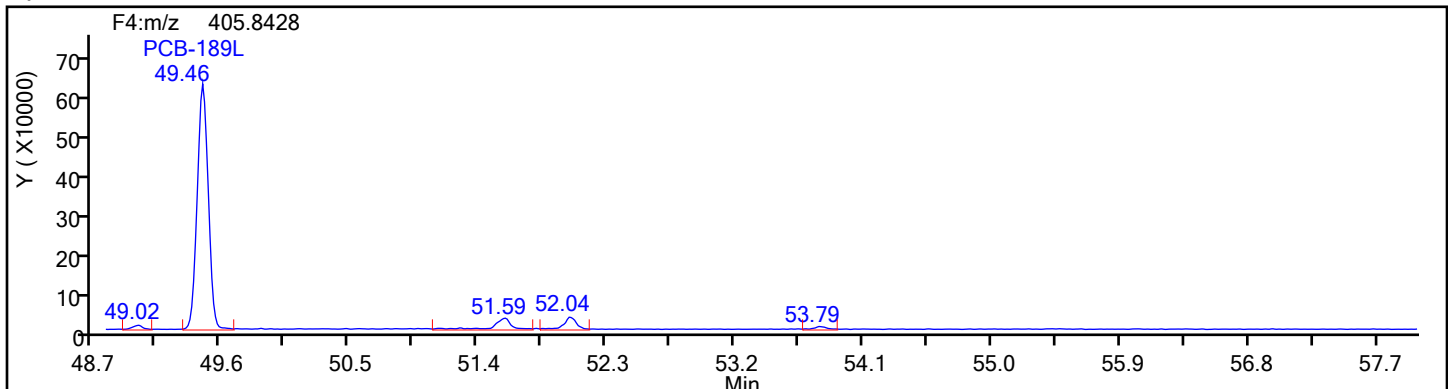
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4

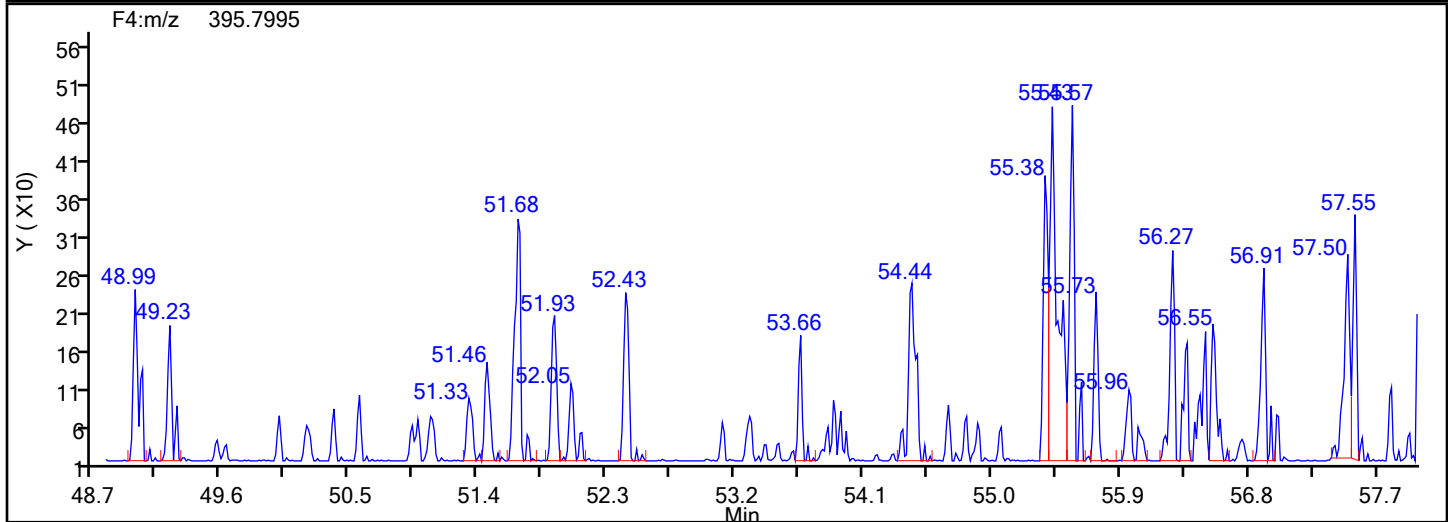
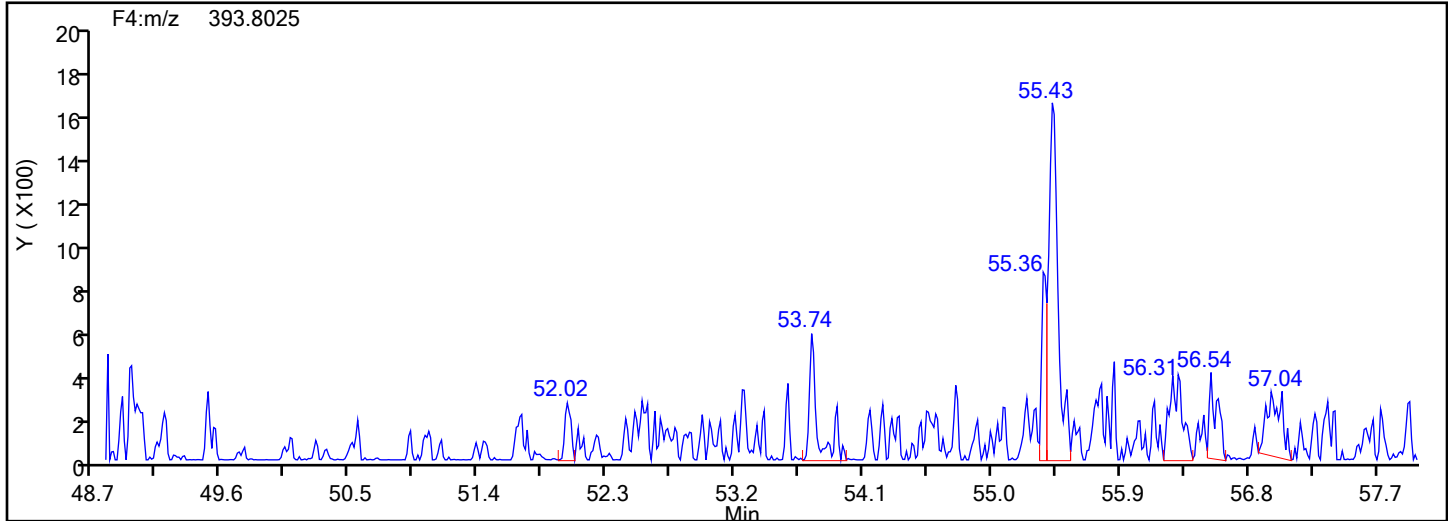


HpPCB F4 Standards

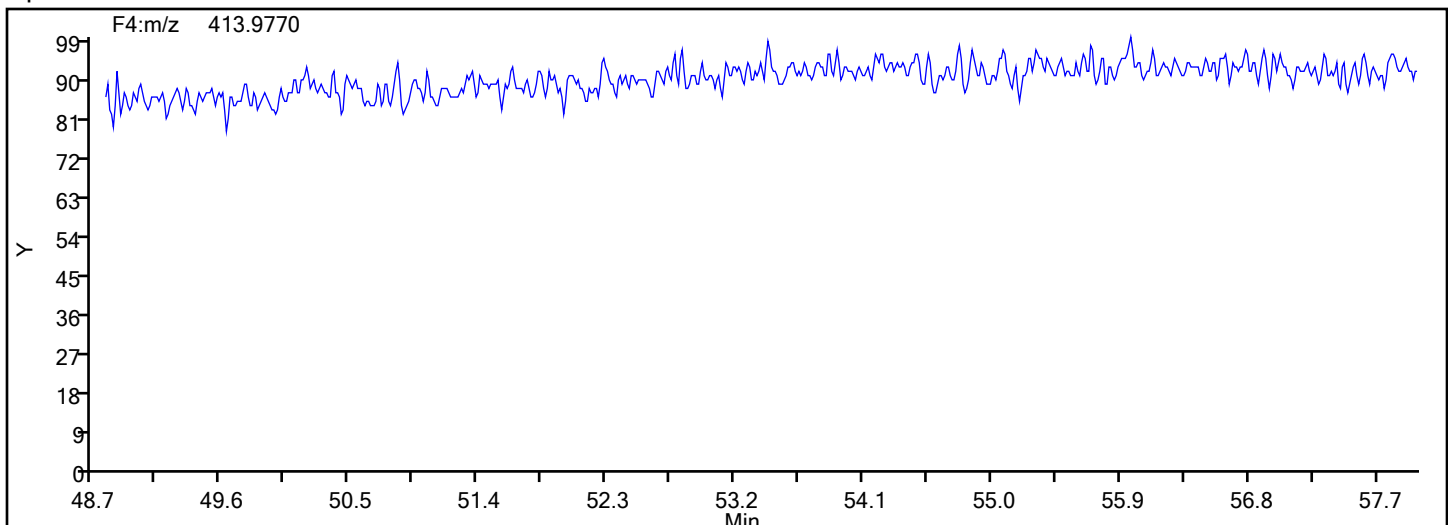


Eurofins Knoxville

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Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4



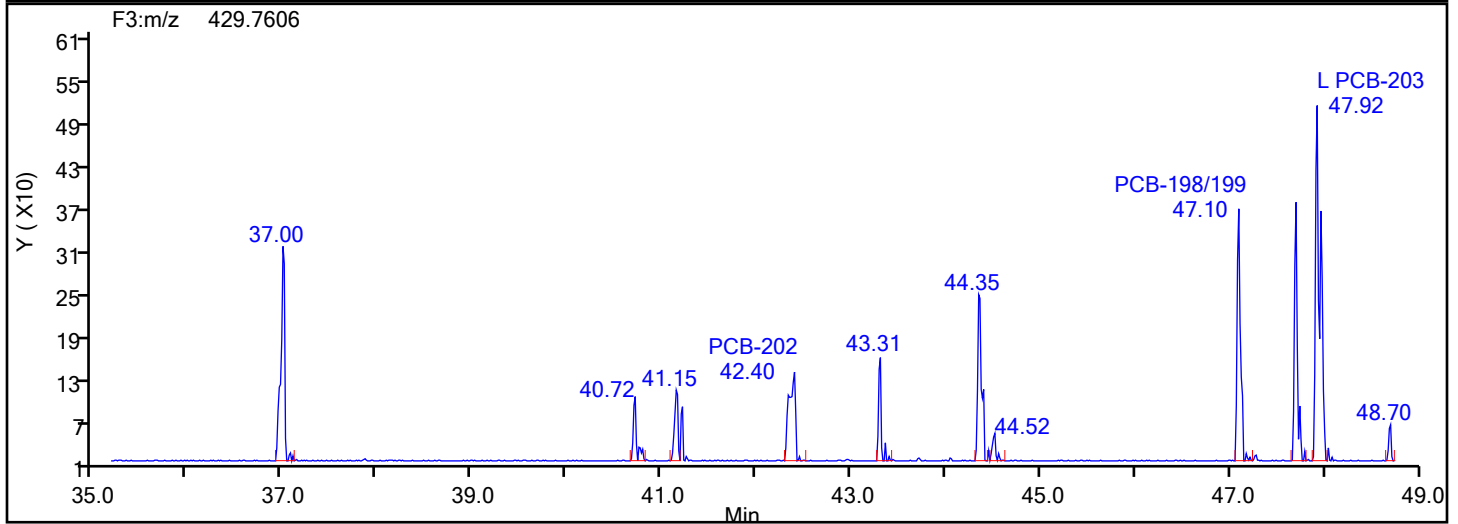
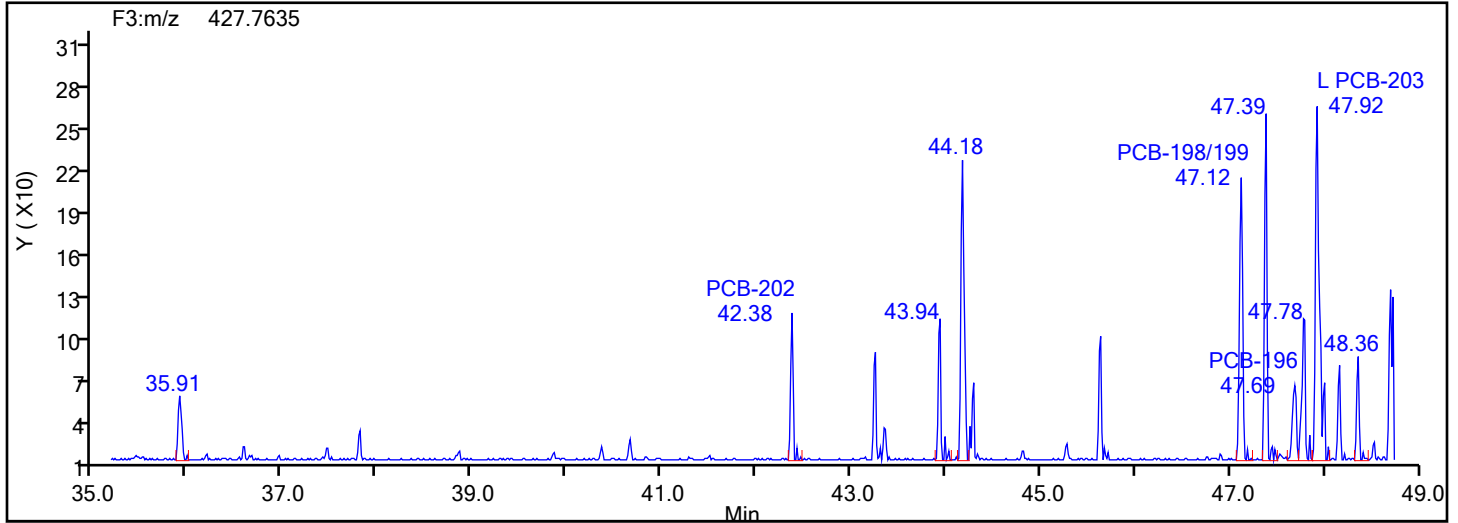
HpPCB F4 Lock Mass



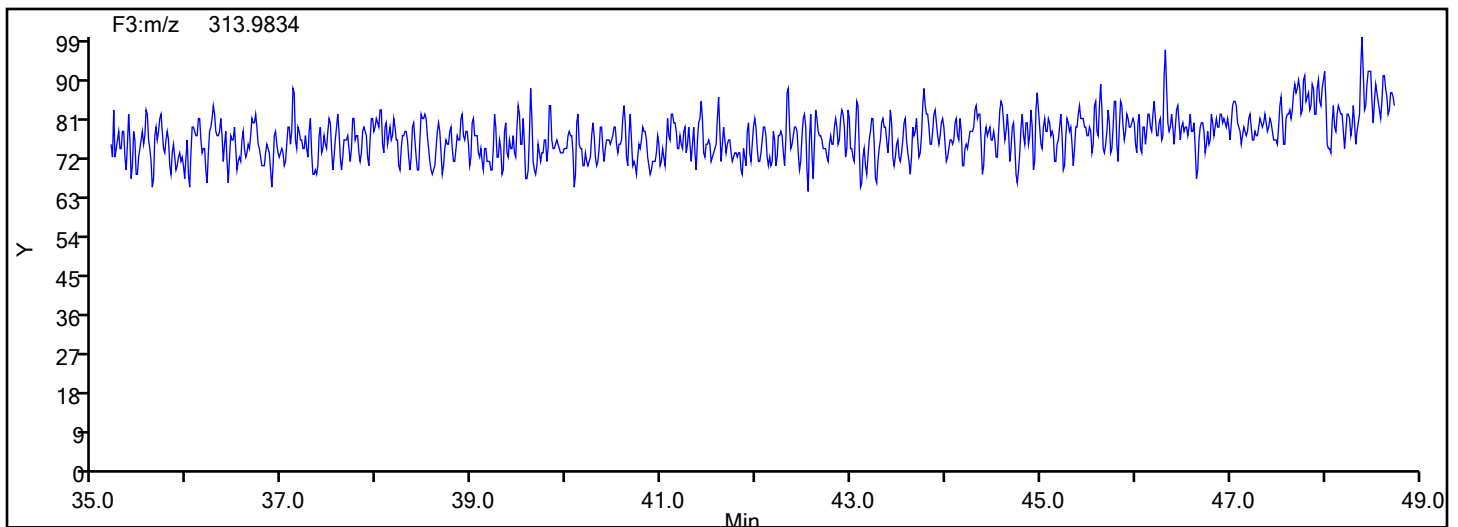
Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

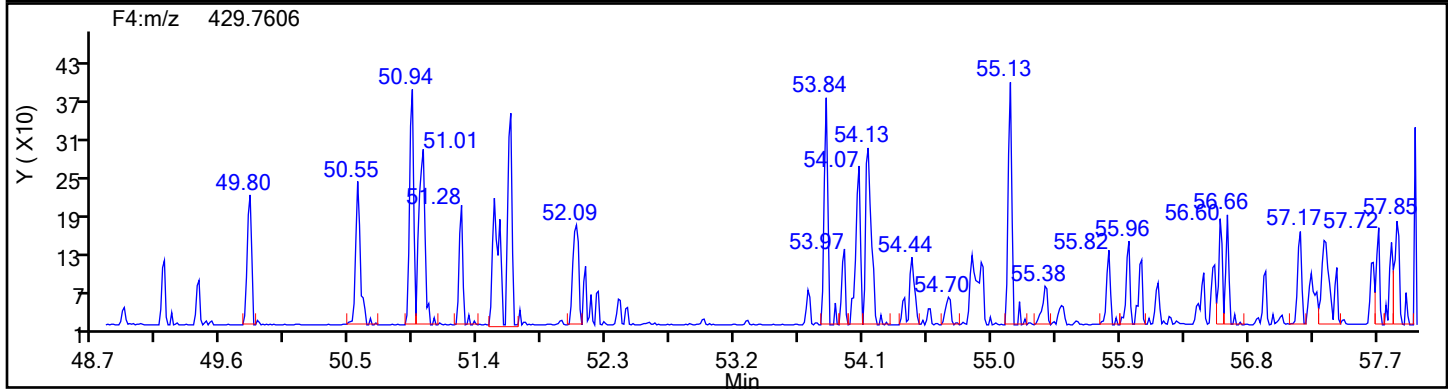
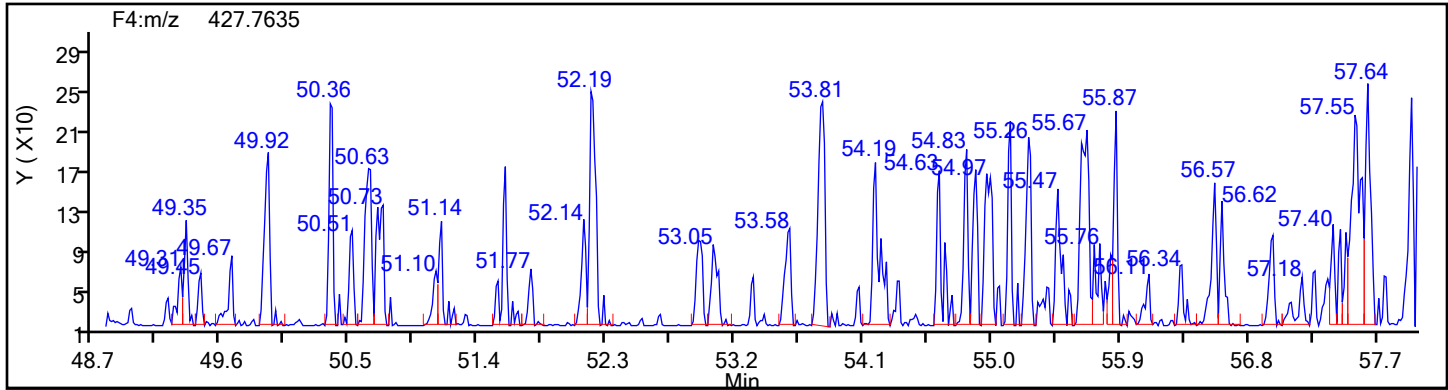


OcPCB F3 Lock Mass

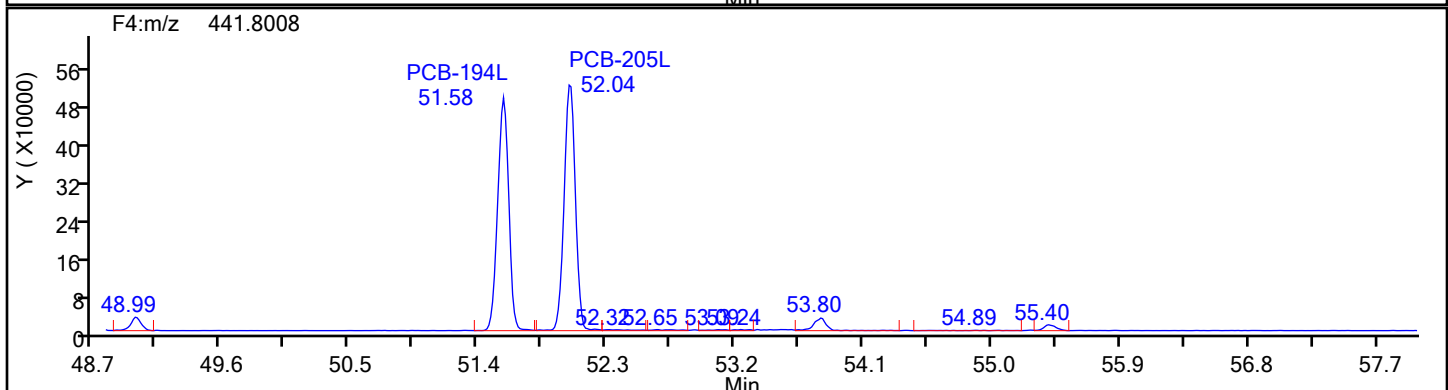
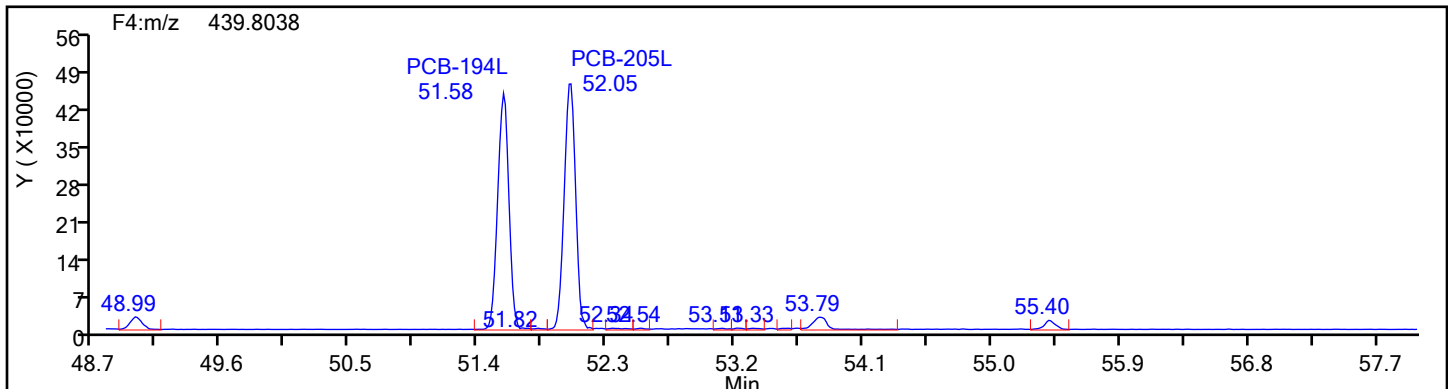


Eurofins Knoxville

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Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

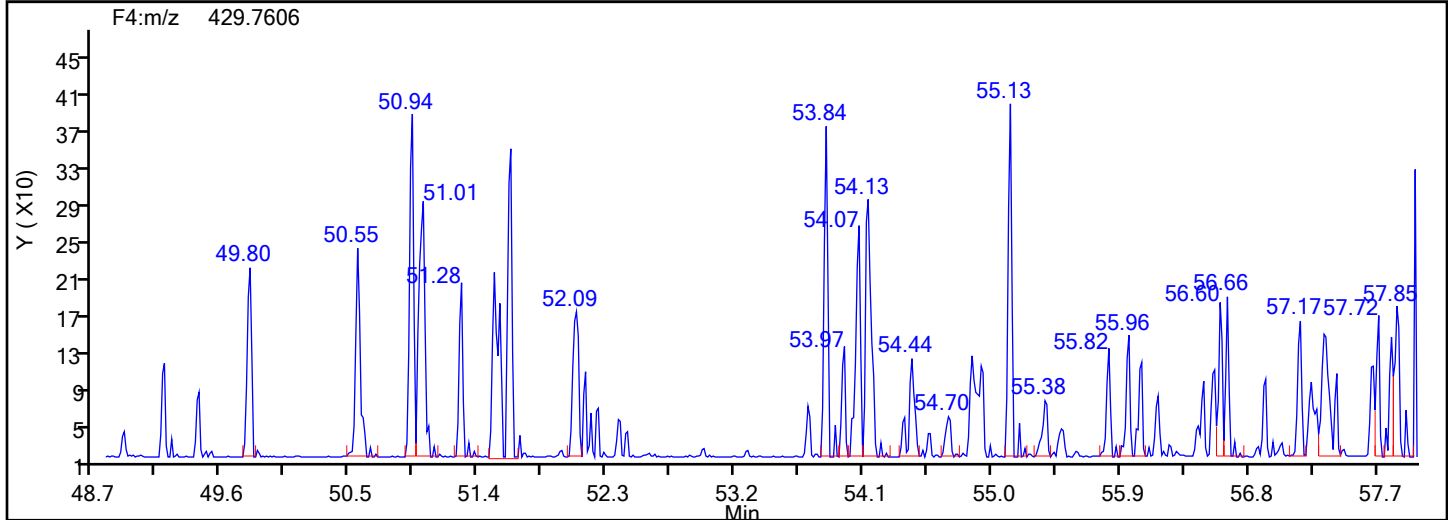
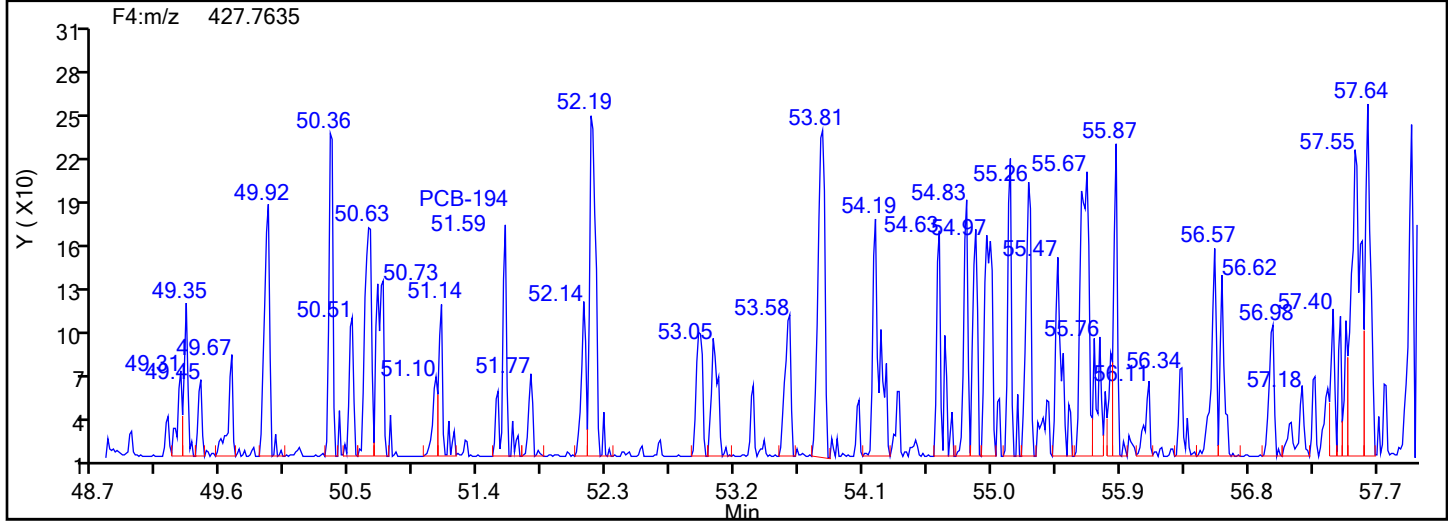


OcPCB F4 Standards

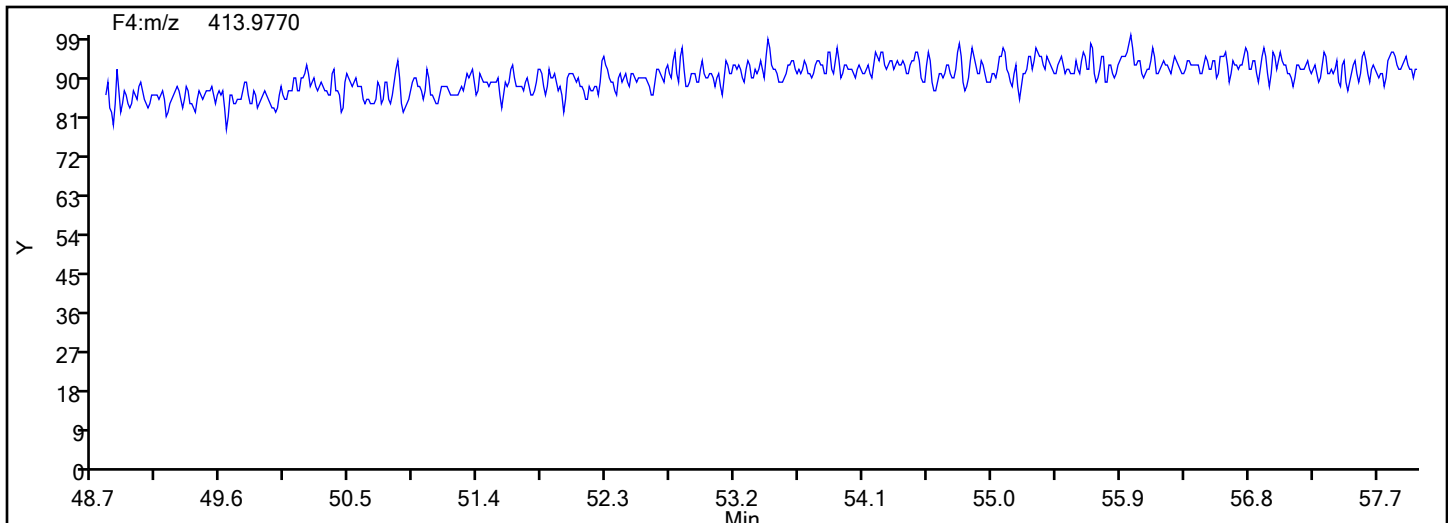


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

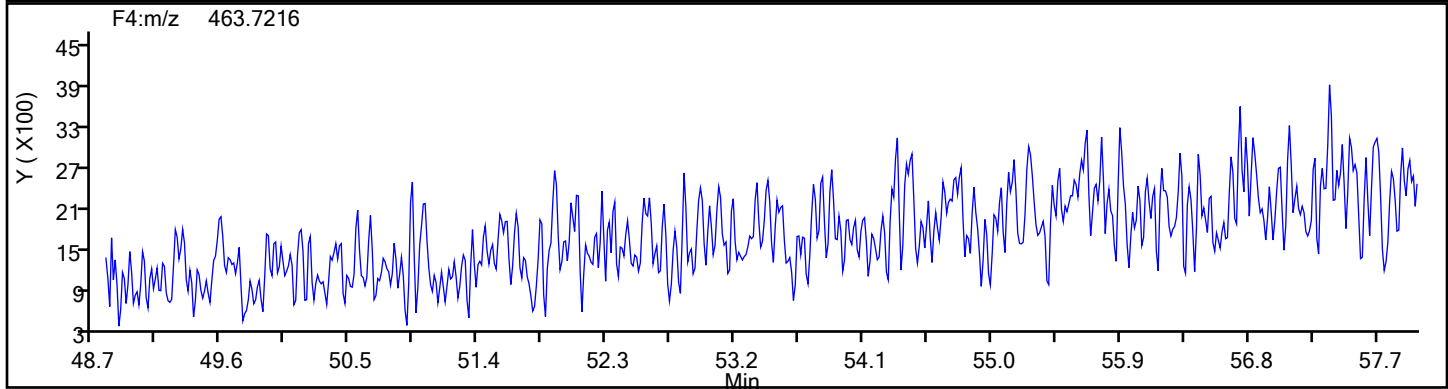
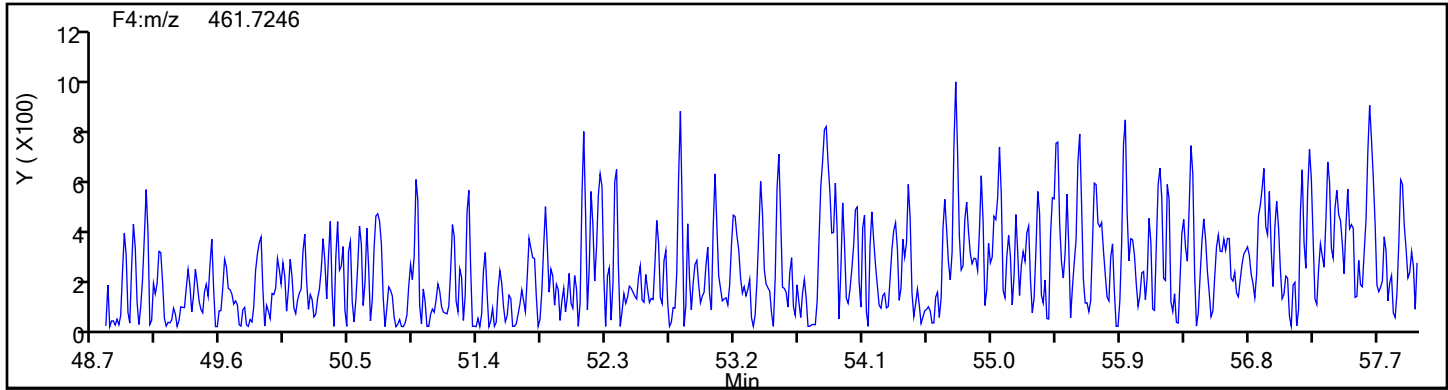


OcPCB F4 Lock Mass

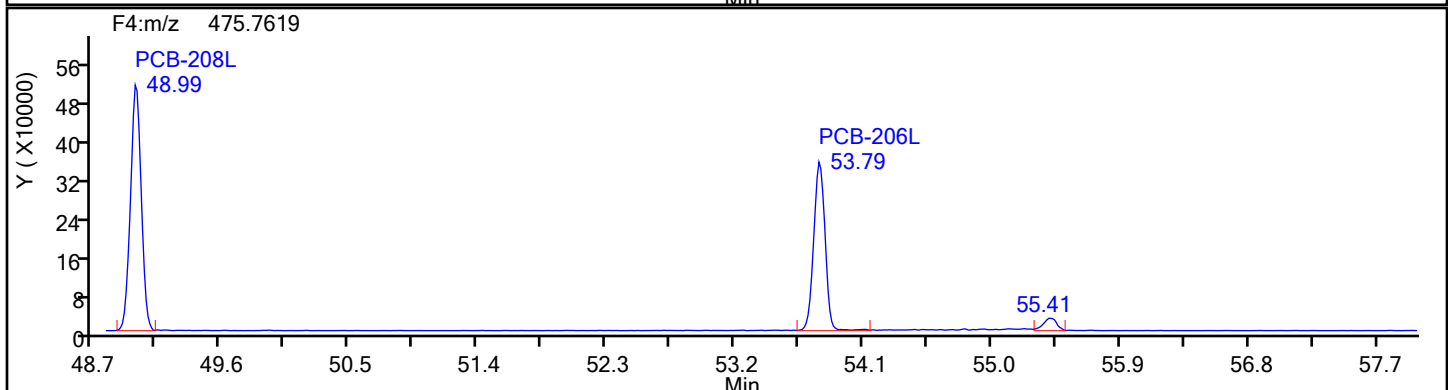
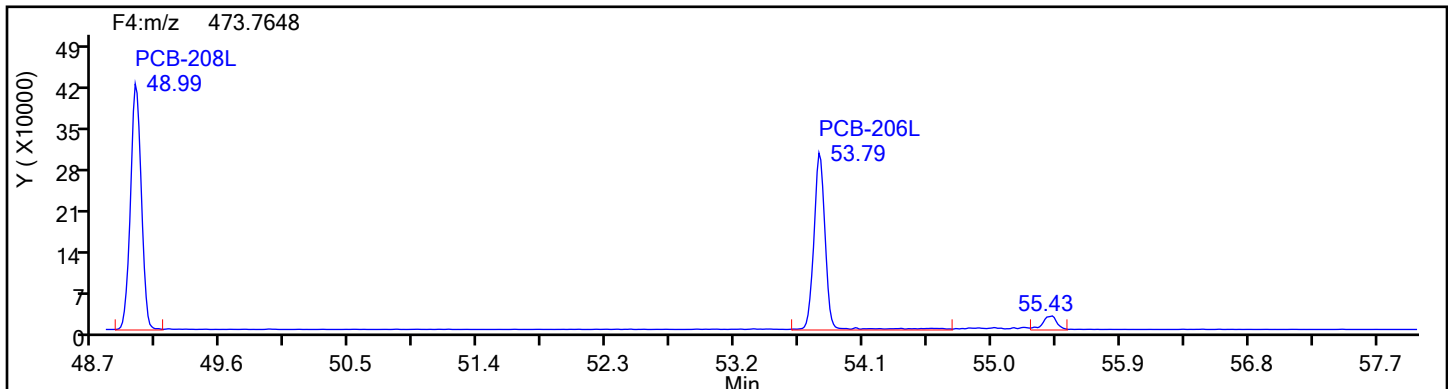


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

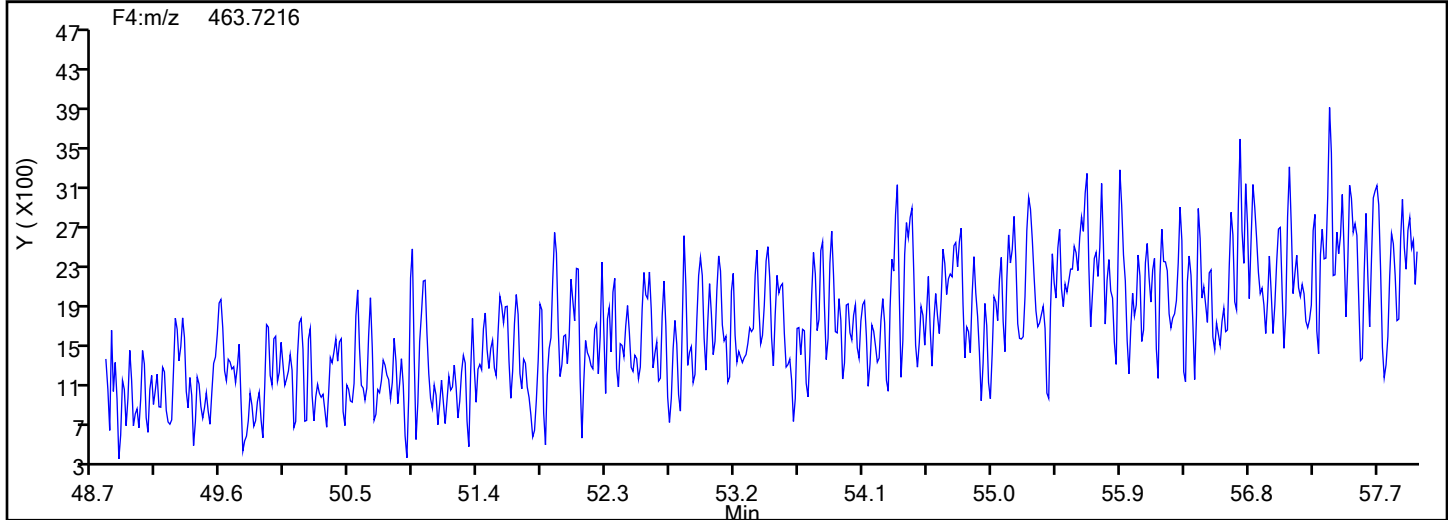
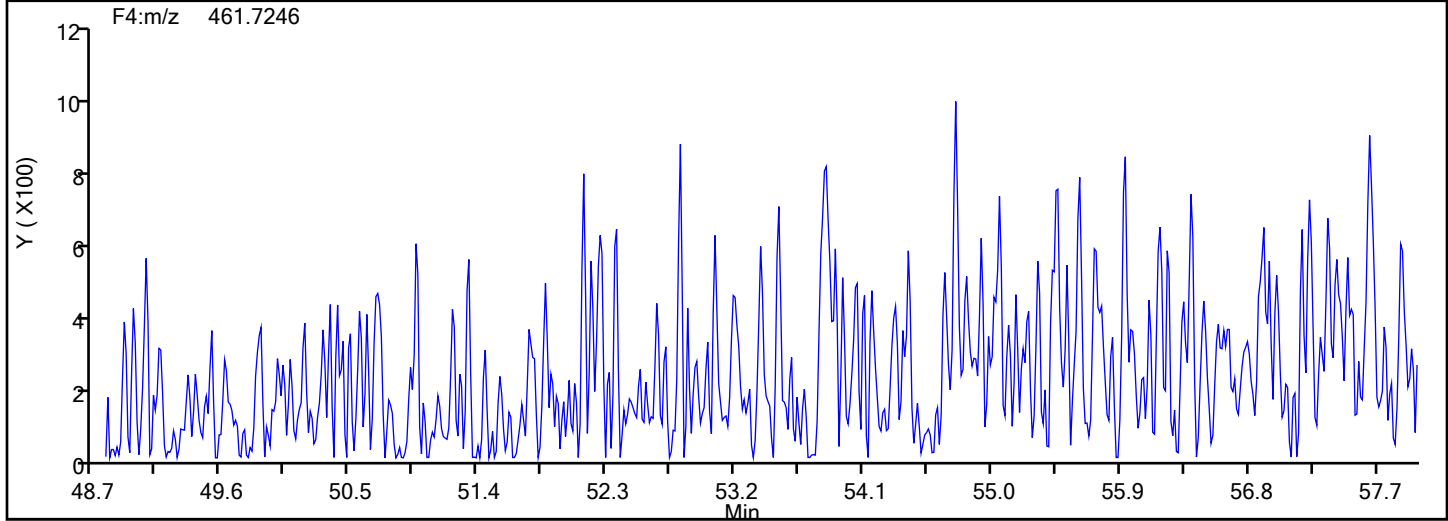


NoPCB F4 Standards

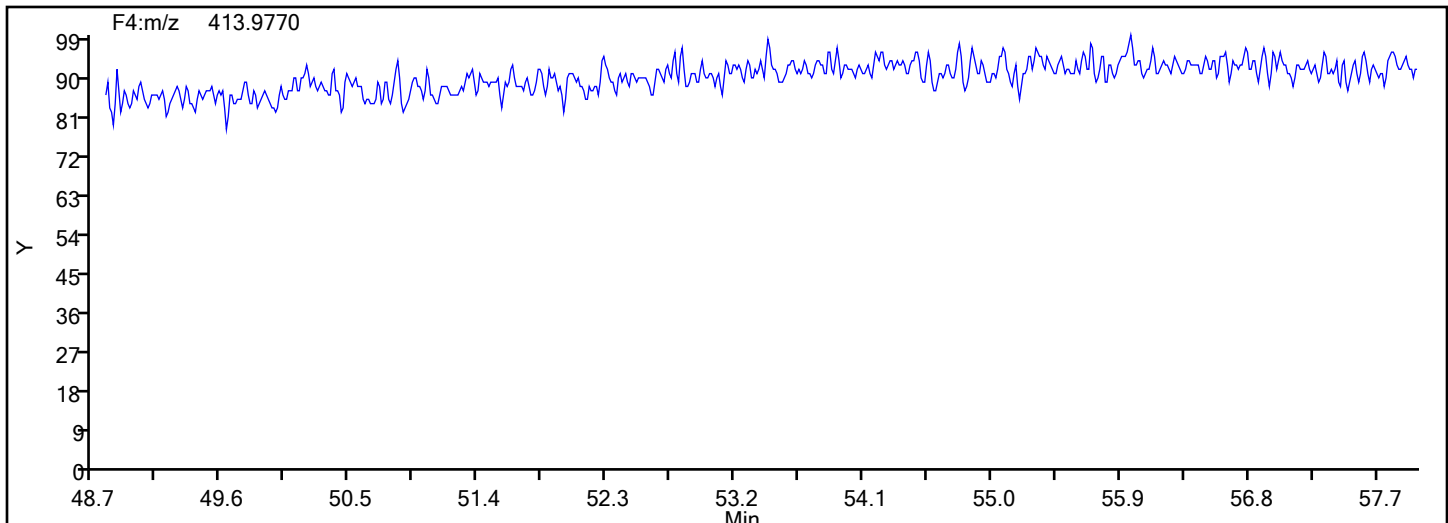


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

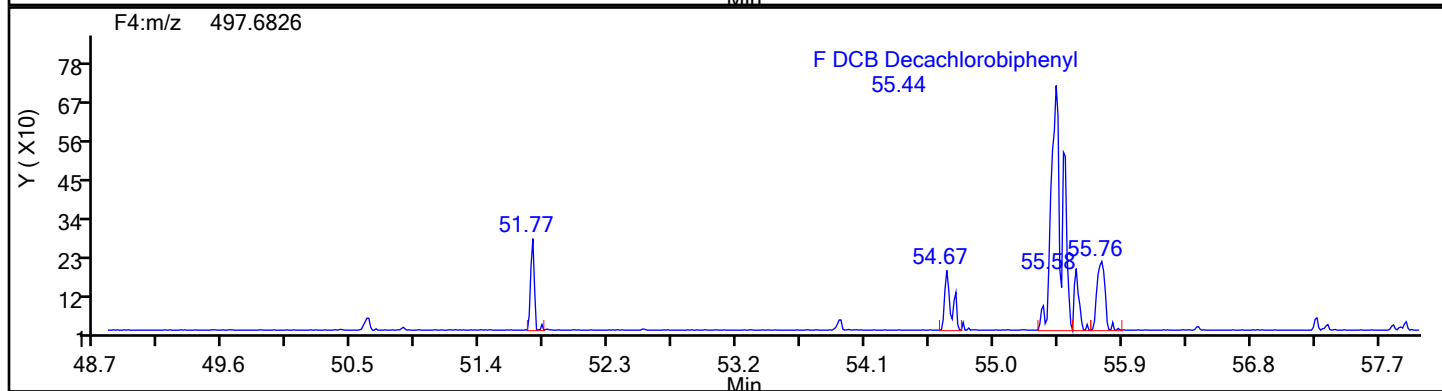
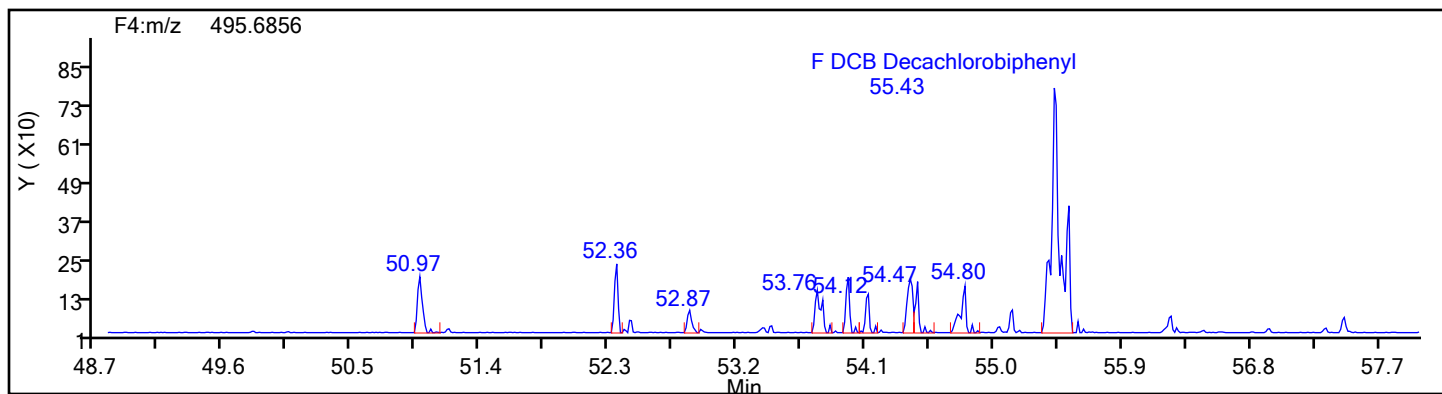


NoPCB F4 Lock Mass

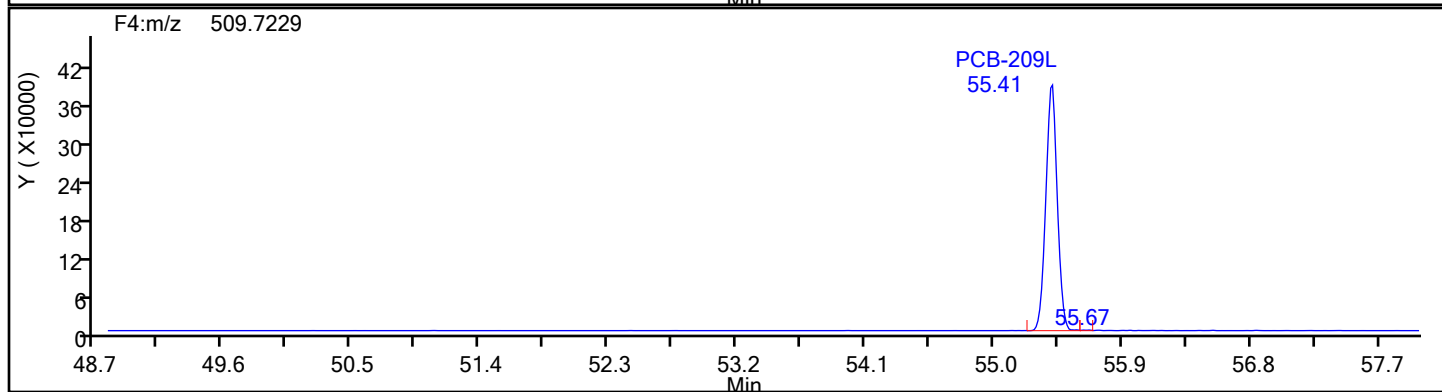
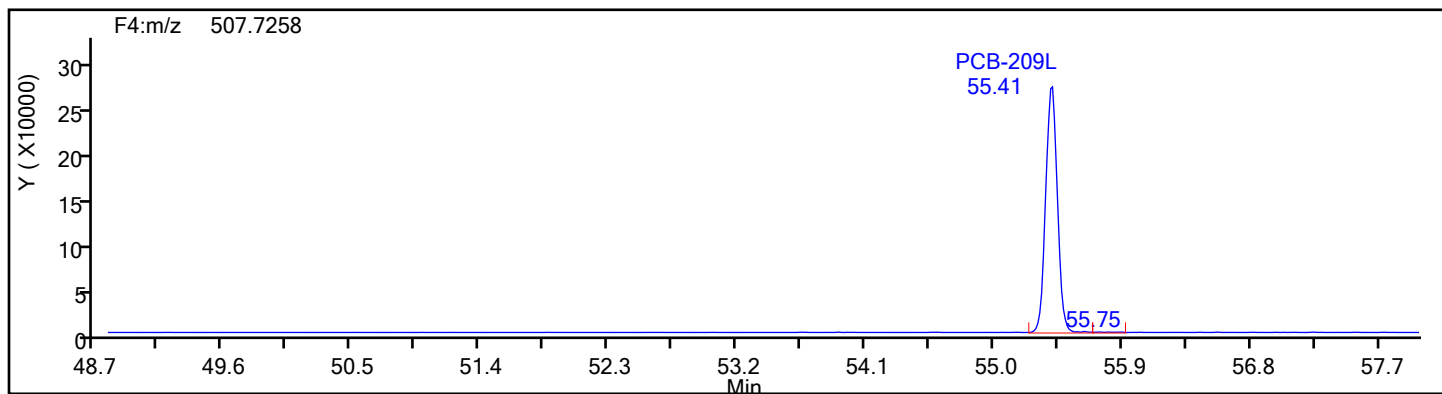


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Injection Date: 11-Jun-2024 17:06:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Worklist#: 87502 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d

Injection Date: 11-Jun-2024 17:06:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 2 COMBINED

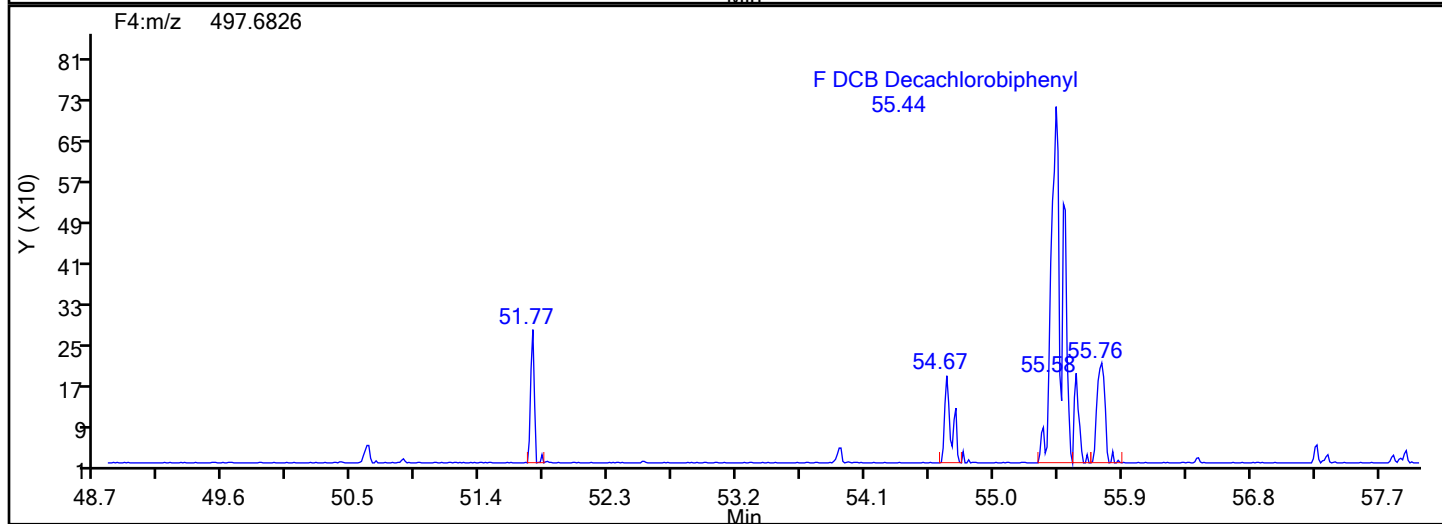
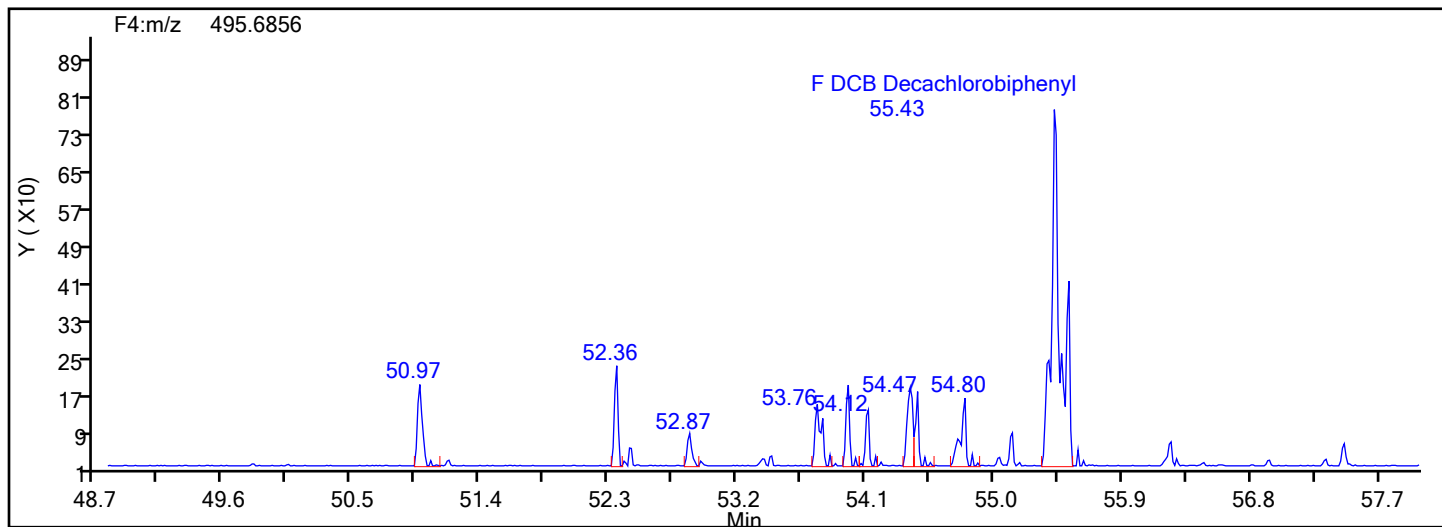
Worklist#: 87502

Sample Line#: 10

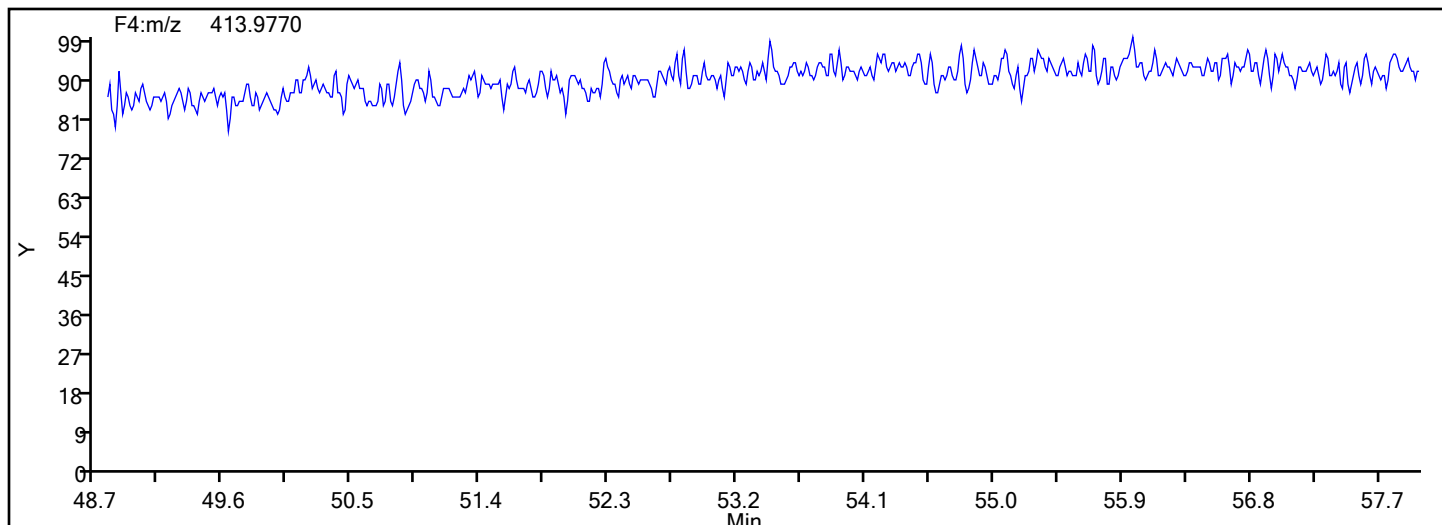
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-2-c.d
Lims ID: 140-36689-A-2-C
Client ID: M23-NO.3 BOILER-RUN 2 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 17:06:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-010
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 01:10:38 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1669

First Level Reviewer: Q9DB

Date: 12-Jun-2024 01:10:38

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	29.8	89.51
PCB-28L	100.0	82.2	82.21
PCB-79L	33.3	33.2	99.62
PCB-95L	33.3	33.9	101.81
PCB-111L	100.0	86.6	86.59
PCB-153L	33.3	31.0	93.03
PCB-178L	100.0	87.9	87.85

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 3 COMBINED</u>	Lab Sample ID: <u>140-36689-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-3-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/08/2024 15:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/11/2024 18:07</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.381	J S	0.600	0.132	0.0144
37680-65-2	PCB-18	ND	C	0.600	0.285	0.00330
7012-37-5	PCB-28	0.451	J C20 B	0.600	0.252	0.00768
41464-39-5	PCB-44	4.00	C	0.900	0.390	0.0263
35693-99-3	PCB-52	0.330		0.300	0.132	0.0278
32598-10-0	PCB-66	0.113	J	0.300	0.120	0.0203
32598-13-3	PCB-77	0.0650	J	0.300	0.126	0.0231
70362-50-4	PCB-81	ND		0.300	0.0960	0.0243
37680-73-2	PCB-101	0.114	J C90	0.900	0.390	0.00503
32598-14-4	PCB-105	ND		0.300	0.102	0.0105
74472-37-0	PCB-114	ND		0.300	0.165	0.0110
31508-00-6	PCB-118	0.0599	J B	0.300	0.183	0.00947
65510-44-3	PCB-123	ND		0.300	0.171	0.0114
57465-28-8	PCB-126	ND		0.300	0.123	0.0118
38380-07-3	PCB-128	0.00628	J q C	0.600	0.204	0.00198
35065-28-2	PCB-138	0.0530	J q C129	1.20	0.510	0.00205
35065-27-1	PCB-153	0.0720	J C B	0.600	0.249	0.00178
38380-08-4	PCB-156	ND	C	0.600	0.255	0.00213
69782-90-7	PCB-157	ND	C156	0.600	0.255	0.00213
52663-72-6	PCB-167	ND		0.300	0.180	0.00144
32774-16-6	PCB-169	ND		0.300	0.123	0.00145
35065-30-6	PCB-170	0.00427	J q	0.300	0.132	0.000229
35065-29-3	PCB-180	0.00852	J q C	0.600	0.204	0.000180
52663-68-0	PCB-187	0.00404	J q	0.300	0.126	0.000190
39635-31-9	PCB-189	ND		0.300	0.147	0.00338
52663-78-2	PCB-195	ND		0.300	0.159	0.00299
40186-72-9	PCB-206	ND		0.300	0.171	0.0385
2051-24-3	PCB-209	0.00884	J q B	0.300	0.138	0.000751

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 3 COMBINED</u>	Lab Sample ID: <u>140-36689-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-3-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/08/2024 15:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/11/2024 18:07</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	55	S	20-145
208263-77-8	PCB-3L	61		20-145
234432-86-1	PCB-4L	65		20-145
208263-67-6	PCB-15L	36	S	20-145
234432-87-2	PCB-19L	69	S	20-145
208263-79-0	PCB-37L	75		20-145
234432-88-3	PCB-54L	68		20-145
105600-23-5	PCB-77L	77		20-145
208461-24-9	PCB-81L	76		20-145
234432-89-4	PCB-104L	92		20-145
208263-62-1	PCB-105L	90		20-145
208263-63-2	PCB-114L	90		20-145
104130-40-7	PCB-118L	91		20-145
208263-64-3	PCB-123L	90		20-145
208263-65-4	PCB-126L	88		20-145
234432-90-7	PCB-155L	94		20-145
208263-68-7	PCB-156L	87	C	20-145
235416-30-5	PCB-157L	87	C156	20-145
208263-69-8	PCB-167L	85		20-145
208263-70-1	PCB-169L	83		20-145
160901-80-4	PCB-170L	92		20-145
234432-91-8	PCB-188L	93		20-145
208263-73-4	PCB-189L	85		20-145
105600-26-8	PCB-202L	94		20-145
234446-64-1	PCB-205L	89		20-145
208263-75-6	PCB-206L	99		20-145
234432-92-9	PCB-208L	101		20-145
105600-27-9	PCB-209L	110		20-145

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Client Sample ID: M23-NO.3 BOILER-RUN 3 Lab Sample ID: 140-36689-3
COMBINED
Matrix: Air Lab File ID: 140-36689-a-3-c.d
Analysis Method: 23 Date Collected: 05/08/2024 15:00
Extract. Method: Combined Prep Date Extracted: 05/31/2024 12:09
Sample wt/vol: 1(Sample) Date Analyzed: 06/11/2024 18:07
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 87502 Units: ng/Sample
Preparation Batch No.: 87206 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	79		20-130
235416-29-2	PCB-111L	86		20-130
232919-67-4	PCB-178L	89		20-130
STL01600	PCB-8L	90	S	70-130
STL01603	PCB-79L	104		70-130
STL01604	PCB-95L	107		70-130
STL01606	PCB-153L	97		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Lims ID: 140-36689-A-3-C
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 18:07:00 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-011
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 09:39:18 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 09:39:18

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					3.626	3.626	0.0493	0.0493		
D PCB-1L	11:32	5819813	3.13	1.6108	55.2	55.2	0.4856	0.4856	55.21	
D PCB-3L	13:42	6341819	3.15	1.5891	61.0	61.0	0.4923	0.4923	60.98	
PCB-1	11:33	66593	3.25	1.2191	0.9386	0.9386	0.0465	0.0465		M
PCB-2	13:32	98913	3.23	1.1805	1.378	1.378	0.0503	0.0503		M
PCB-3	13:43	101337	3.51	1.2206	1.309	1.309	0.0510	0.0510		
S Total Dichlorobiphenyls					29.3	29.1	0.0558	0.0558		RQ
D PCB-4L	13:57	2762353	1.65	0.6475	65.2	65.2	0.2496	0.2496	65.19	
* PCB-9L	15:57	6544168	1.59		100.0	100.0				
\$ PCB-8L	16:50	964398	1.64	1.2066	30.1	30.1	0.2521	0.2521	90.31	a
D PCB-15L	20:04	2547665	1.57	1.0789	36.1	36.1	0.1498	0.1498	36.08	a
PCB-4	13:58	13831	1.56	1.2818	0.4844	0.3906	0.0486	0.0486		RQ
PCB-10	14:10						0.0579	0.0579		
PCB-9	15:59	11946	1.67	1.4224	0.3163	0.3163	0.0535	0.0535		a
PCB-7	16:07	28398	1.42	1.4134	0.7567	0.7567	0.0538	0.0538		M
PCB-6	16:24	21196	1.56	1.5421	0.6445	0.5177	0.0493	0.0493		RQM
PCB-5	16:40						0.0568	0.0568		
PCB-8	16:52	53626	1.36	1.5889	1.271	1.271	0.0479	0.0479		M
PCB-14	18:24						0.0543	0.0543		
PCB-11	19:29	855776	1.59	1.2951	24.9	24.9	0.0588	0.0588		a
PCB-12	19:40	17438	1.56	1.3358	0.5423	0.4917	0.0570	0.0570		RQa
PCB-13 (C12)	19:40	17438	1.56	1.3358	0.5423	0.4917	0.0570	0.0570		RQa
PCB-15	20:05	14013	1.48	1.2903	0.4263	0.4263	0.0757	0.0757		a
S Total Trichlorobiphenyls					6.631	6.160	0.0217	0.0217		RQ
D PCB-19L	17:09	1547656	1.08	0.6285	68.9	68.9	0.5154	0.5154	68.92	
* PCB-32L	20:31	3572770	1.08		100.0	100.0				
* PCB-31L	22:39	12228003	1.07		100.0	100.0				
\$ PCB-28L	22:56	10182753	1.07	1.0494	79.4	79.4	0.1595	0.1595	79.35	
D PCB-37L	26:52	8023641	1.07	0.8749	75.0	75.0	0.1913	0.1913	75.00	
PCB-19	17:12	2360	1.04	1.2809	0.1327	0.1190	0.0152	0.0152		RQM
PCB-18	18:55						0.0110	0.0110		
PCB-30 (C18)	18:55						0.0110	0.0110		
PCB-17	19:21						0.0156	0.0156		
PCB-27	19:36	13474	1.01	1.8327	0.4750	0.4750	0.0106	0.0106		a

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:42						0.0116	0.0116		
PCB-16	19:49						0.0172	0.0172		
PCB-32	20:31	11794	1.06	1.8324	0.4159	0.4159	0.0106	0.0106		a
PCB-34	21:35						0.0266	0.0266		
PCB-23	21:43						0.0277	0.0277		
PCB-26	22:09	27593	0.96	1.1255	0.3056	0.3056	0.0267	0.0267		
PCB-29 (C26)	22:09	27593	0.96	1.1255	0.3056	0.3056	0.0267	0.0267		
PCB-25	22:23	27948	1.04	1.2728	0.3242	0.2737	0.0236	0.0236		RQa
PCB-31	22:41	108502	1.05	1.1532	1.173	1.173	0.0260	0.0260		Ma
PCB-20	22:58	141273	1.02	1.1718	1.503	1.503	0.0256	0.0256		M
PCB-28 (C20)	22:58	141273	1.02	1.1718	1.503	1.503	0.0256	0.0256		M
PCB-21	23:11	69550	1.04	1.0746	1.075	0.8066	0.0279	0.0279		RQa
PCB-33 (C21)	23:11	69550	1.04	1.0746	1.075	0.8066	0.0279	0.0279		RQa
PCB-22	23:34	49283	1.04	1.1932	0.5730	0.5147	0.0251	0.0251		RQM
PCB-36	25:08	4780	1.04	1.1071	0.0891	0.0538	0.0271	0.0271		RQM
PCB-39	25:25						0.0259	0.0259		
PCB-38	26:00						0.0277	0.0277		
PCB-35	26:29	24982	1.04	1.1297	0.3215	0.2756	0.0266	0.0266		RQ
PCB-37	26:53	22452	1.03	1.1435	0.2447	0.2447	0.0262	0.0262		
S Total Tetrachlorobiphenyls					23.3	23.1	0.0775	0.0775		RQ
D PCB-54L	20:22	1345440	0.80	0.5562	67.7	67.7	0.0596	0.0596	67.70	a
* PCB-52L	24:44	6131199	0.80		100.0	100.0				
\$ PCB-79L	32:35	2094675	0.80	1.0018	34.7	34.7	0.2472	0.2472	104	
D PCB-81L	33:34	5821715	0.78	1.2470	76.1	76.1	0.1705	0.1705	76.15	
D PCB-77L	34:08	6216532	0.80	1.3212	76.7	76.7	0.1609	0.1609	76.74	
PCB-54	20:10						0.008532	0.008532		
PCB-50	22:19						0.0995	0.0995		
PCB-53 (C50)	22:19						0.0995	0.0995		
PCB-45	23:08	170655	0.76	0.8264	3.431	3.431	0.1033	0.1033		a
PCB-51 (C45)	23:08	170655	0.76	0.8264	3.431	3.431	0.1033	0.1033		a
PCB-46	23:18						0.1202	0.1202		
PCB-52	24:46	60789	0.87	0.9194	1.098	1.098	0.0928	0.0928		a
PCB-43	24:51						0.0826	0.0826		
PCB-73 (C43)	24:51						0.0826	0.0826		
PCB-49	25:13	41740	0.65	1.0685	0.6490	0.6490	0.0799	0.0799		a
PCB-69 (C49)	25:13	41740	0.65	1.0685	0.6490	0.6490	0.0799	0.0799		a
PCB-48	25:28						0.1016	0.1016		
PCB-44	25:46	781682	0.81	0.9731	13.3	13.3	0.0877	0.0877		
PCB-47 (C44)	25:46	781682	0.81	0.9731	13.3	13.3	0.0877	0.0877		
PCB-65 (C44)	25:46	781682	0.81	0.9731	13.3	13.3	0.0877	0.0877		
PCB-59	26:01						0.0720	0.0720		
PCB-62 (C59)	26:01						0.0720	0.0720		
PCB-75 (C59)	26:01						0.0720	0.0720		
PCB-42	26:13						0.1054	0.1054		
PCB-40	26:44	17045	0.76	0.8863	0.3195	0.3195	0.0963	0.0963		
PCB-41 (C40)	26:44	17045	0.76	0.8863	0.3195	0.3195	0.0963	0.0963		
PCB-71 (C40)	26:44	17045	0.76	0.8863	0.3195	0.3195	0.0963	0.0963		
PCB-64	26:59	18237	0.77	1.1776	0.3701	0.2573	0.0725	0.0725		RQ
PCB-72	27:46						0.0780	0.0780		
PCB-68	28:05	179145	0.76	1.2533	2.375	2.375	0.0681	0.0681		
PCB-57	28:28						0.0789	0.0789		
PCB-58	28:42						0.0644	0.0644		
PCB-67	28:52						0.0600	0.0600		
PCB-63	29:08						0.0759	0.0759		
PCB-61	29:28	57317	0.81	1.2612	0.7550	0.7550	0.0677	0.0677		
PCB-70 (C61)	29:28	57317	0.81	1.2612	0.7550	0.7550	0.0677	0.0677		
PCB-74 (C61)	29:28	57317	0.81	1.2612	0.7550	0.7550	0.0677	0.0677		
PCB-76 (C61)	29:28	57317	0.81	1.2612	0.7550	0.7550	0.0677	0.0677		
PCB-66	29:47	28556	0.68	1.2583	0.3770	0.3770	0.0678	0.0678		
PCB-55	29:58						0.0645	0.0645		
PCB-56	30:28	14639	0.81	1.2334	0.1972	0.1972	0.0692	0.0692		M

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:40	8664	0.68	1.1230	0.1282	0.1282	0.0760	0.0760		M
PCB-80	31:05						0.0644	0.0644		
PCB-79	32:36						0.0594	0.0594		
PCB-78	33:09						0.0735	0.0735		
PCB-81	33:36						0.0809	0.0809		
PCB-77	34:09	14587	0.69	1.0836	0.2165	0.2165	0.0770	0.0770		M
S Total Pentachlorobiphenyls					2.185	2.055	0.0233	0.0233		RQ
D PCB-104L	25:40	4466823	1.60	1.2161	91.8	91.8	0.0495	0.0495	91.83	
\$ PCB-95L	28:35	1153744	1.56	0.7218	35.8	35.8	0.0716	0.0716	107	
* PCB-101L	31:31	3999989	1.58		100.0	100.0				
\$ PCB-111L	34:11	4739269	1.62	1.3699	86.5	86.5	0.0440	0.0440	86.49	
D PCB-123L	36:08	5797563	1.58	0.9731	89.9	89.9	1.117	1.117	89.94	
D PCB-118L	36:27	6092262	1.61	1.0102	91.0	91.0	1.076	1.076	91.04	
D PCB-114L	36:58	5917129	1.60	0.9949	89.8	89.8	1.093	1.093	89.79	
D PCB-105L	37:37	5673317	1.58	0.9514	90.0	90.0	1.143	1.143	90.02	
* PCB-127L	39:05	6624157	1.59		100.0	100.0				
D PCB-126L	40:42	5507123	1.60	0.9439	88.1	88.1	1.152	1.152	88.08	
PCB-104	25:38						0.0159	0.0159		
PCB-96	26:01						0.0146	0.0146		
PCB-103	27:56						0.0183	0.0183		
PCB-94	28:10						0.0209	0.0209		
PCB-95	28:37	11134	1.55	0.8033	0.3411	0.3103	0.0199	0.0199		RQM
PCB-93	28:48	1677	1.55	0.8429	0.0520	0.0445	0.0190	0.0190		RQ
PCB-100 (C93)	28:48	1677	1.55	0.8429	0.0520	0.0445	0.0190	0.0190		RQ
PCB-98	28:58						0.0194	0.0194		
PCB-102 (C98)	28:58						0.0194	0.0194		
PCB-88	29:28	3296	1.55	0.8013	0.1041	0.0921	0.0200	0.0200		RQM
PCB-91 (C88)	29:28	3296	1.55	0.8013	0.1041	0.0921	0.0200	0.0200		RQM
PCB-84	29:41	3689	1.55	0.7299	0.1391	0.1131	0.0219	0.0219		RQM
PCB-89	30:10	273	1.55	0.7798	0.0101	0.007837	0.0205	0.0205		RnQM
PCB-121	30:36	1129	1.55	1.2964	0.0396	0.0195	0.0123	0.0123		RQM
PCB-92	31:00	1376	1.32	0.8546	0.0360	0.0360	0.0187	0.0187		M
PCB-90	31:33	16167	1.44	0.9550	0.3790	0.3790	0.0168	0.0168		M
PCB-101 (C90)	31:33	16167	1.44	0.9550	0.3790	0.3790	0.0168	0.0168		M
PCB-113 (C90)	31:33	16167	1.44	0.9550	0.3790	0.3790	0.0168	0.0168		M
PCB-83	32:07	9971	1.68	0.8385	0.2662	0.2662	0.0191	0.0191		
PCB-99 (C83)	32:07	9971	1.68	0.8385	0.2662	0.2662	0.0191	0.0191		
PCB-112	32:13						0.0113	0.0113		
PCB-86	32:34	8616	1.55	1.0473	0.2108	0.1842	0.0153	0.0153		RQM
PCB-87 (C86)	32:34	8616	1.55	1.0473	0.2108	0.1842	0.0153	0.0153		RQM
PCB-97 (C86)	32:34	8616	1.55	1.0473	0.2108	0.1842	0.0153	0.0153		RQM
PCB-109 (C86)	32:34	8616	1.55	1.0473	0.2108	0.1842	0.0153	0.0153		RQM
PCB-119 (C86)	32:34	8616	1.55	1.0473	0.2108	0.1842	0.0153	0.0153		RQM
PCB-125 (C86)	32:34	8616	1.55	1.0473	0.2108	0.1842	0.0153	0.0153		RQM
PCB-85	33:22	4319	1.37	1.0408	0.0929	0.0929	0.0154	0.0154		M
PCB-116 (C85)	33:22	4319	1.37	1.0408	0.0929	0.0929	0.0154	0.0154		M
PCB-117 (C85)	33:22	4319	1.37	1.0408	0.0929	0.0929	0.0154	0.0154		M
PCB-110	33:31	15793	1.52	1.1919	0.2966	0.2966	0.0134	0.0134		Ma
PCB-115 (C110)	33:31	15793	1.52	1.1919	0.2966	0.2966	0.0134	0.0134		Ma
PCB-82	33:49	471	1.55	0.8303	0.0177	0.0127	0.0193	0.0193		RQM
PCB-111	34:13						0.0132	0.0132		
PCB-120	34:41						0.0108	0.0108		
PCB-108	35:49						0.0356	0.0356		
PCB-124 (C108)	35:49						0.0356	0.0356		
PCB-107	36:03						0.0335	0.0335		
PCB-123	36:10						0.0380	0.0380		
PCB-106	36:17						0.0375	0.0375		
PCB-118	36:28	14656	1.72	1.2055	0.1996	0.1996	0.0316	0.0316		
PCB-122	36:50						0.0425	0.0425		
PCB-114	37:01						0.0368	0.0368		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:40						0.0351	0.0351		
PCB-127	39:09						0.0357	0.0357		
PCB-126	40:45						0.0394	0.0394		
S Total Hexachlorobiphenyls					1.091	0.9753	0.005488	0.005488		RQ
D PCB-155L	31:16	4086200	1.30	1.0851	94.1	94.1	0.0358	0.0358	94.14	
\$ PCB-153L	38:20	1507488	1.30	0.9169	32.5	32.5	0.4673	0.4673	97.42	
* PCB-138L	39:34	4824209	1.26		100.0	100.0				
D PCB-167L	42:34	5146773	1.28	1.2572	84.9	84.9	0.2897	0.2897	84.86	
D PCB-156L	43:42	10108613	1.28	1.2106	173.1	173.1	0.3009	0.3009	86.54	
D PCB-157L (C156L)	43:42	10108613	1.28	1.2106	173.1	173.1	0.3009	0.3009	86.54	
D PCB-169L	46:56	4994753	1.29	1.2439	83.2	83.2	0.2928	0.2928	83.24	
PCB-155	31:19	56	1.24	0.9444	0.0177	0.001451	0.001880	0.001880		RQM
PCB-152	31:30						0.001795	0.001795		
PCB-150	31:40						0.001753	0.001753		
PCB-136	32:02						0.001755	0.001755		
PCB-145	32:20						0.001834	0.001834		
PCB-148	33:50						0.002336	0.002336		
PCB-135	34:27	1944	1.40	0.7256	0.0656	0.0656	0.002448	0.002448		M
PCB-151 (C135)	34:27	1944	1.40	0.7256	0.0656	0.0656	0.002448	0.002448		M
PCB-154	34:37						0.002185	0.002185		RQMU
PCB-144	34:59						0.002262	0.002262		
PCB-147	35:22	11301	1.18	0.8950	0.2494	0.2494	0.007233	0.007233		
PCB-149 (C147)	35:22	11301	1.18	0.8950	0.2494	0.2494	0.007233	0.007233		
PCB-134	35:39						0.008125	0.008125		
PCB-143 (C134)	35:39						0.008125	0.008125		
PCB-139	35:57	739	1.19	0.8769	0.0166	0.0166	0.007382	0.007382		Ma
PCB-140 (C139)	35:57	739	1.19	0.8769	0.0166	0.0166	0.007382	0.007382		Ma
PCB-131	36:09						0.008627	0.008627		
PCB-142	36:18						0.008623	0.008623		
PCB-132	36:36	5032	1.24	0.7489	0.1327	0.1327	0.008643	0.008643		
PCB-133	37:09	159	1.24	0.8096	0.0172	0.003879	0.007996	0.007996		RQ
PCB-165	37:31						0.006317	0.006317		
PCB-146	37:45	1131	1.24	0.9637	0.0384	0.0232	0.006717	0.006717		RQM
PCB-161	37:54						0.005735	0.005735		
PCB-153	38:21	13294	1.35	1.0938	0.2401	0.2401	0.005918	0.005918		M
PCB-168 (C153)	38:21	13294	1.35	1.0938	0.2401	0.2401	0.005918	0.005918		M
PCB-141	38:34						0.007393	0.007393		
PCB-130	38:58						0.009180	0.009180		
PCB-137	39:12						0.008334	0.008334		
PCB-164	39:19						0.006235	0.006235		
PCB-129	39:36	8464	1.24	0.9464	0.2033	0.1767	0.006840	0.006840		RQM
PCB-138 (C129)	39:36	8464	1.24	0.9464	0.2033	0.1767	0.006840	0.006840		RQM
PCB-160 (C129)	39:36	8464	1.24	0.9464	0.2033	0.1767	0.006840	0.006840		RQM
PCB-163 (C129)	39:36	8464	1.24	0.9464	0.2033	0.1767	0.006840	0.006840		RQM
PCB-158	39:59	2631	1.23	1.3110	0.0396	0.0396	0.004937	0.004937		
PCB-128	40:50	1041	1.24	0.9829	0.0436	0.0209	0.006585	0.006585		RQM
PCB-166 (C128)	40:50	1041	1.24	0.9829	0.0436	0.0209	0.006585	0.006585		RQM
PCB-159	41:51						0.004672	0.004672		
PCB-162	42:08						0.005149	0.005149		
PCB-167	42:34						0.004807	0.004807		RQU
PCB-156	43:42	286	1.24	1.1104	0.0270	0.005096	0.007111	0.007111		RQ
PCB-157 (C156)	43:42	286	1.24	1.1104	0.0270	0.005096	0.007111	0.007111		RQ
PCB-169	46:59						0.004825	0.004825		
S Total Heptachlorobiphenyls					0.2687	0.1904	0.001149	0.001149		RQ
D PCB-188L	36:58	4616047	1.08	1.3133	92.6	92.6	0.0368	0.0368	92.57	
\$ PCB-178L	40:01	3478792	1.09	1.0313	88.8	88.8	0.0469	0.0469	88.84	
* PCB-180L	45:06	3796852	1.06		100.0	100.0				
D PCB-170L	46:21	2931011	1.07	0.8362	92.3	92.3	0.0579	0.0579	92.32	
D PCB-189L	49:28	6006604	1.05	1.4414	85.4	85.4	0.3619	0.3619	85.36	
PCB-188	37:01						0.000502	0.000502		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:22	249	1.05	1.4276	0.0143	0.004622	0.000490	0.000490		RQM
PCB-184	37:53						0.000512	0.000512		
PCB-176	38:14						0.000567	0.000567		
PCB-186	38:42						0.000475	0.000475		
PCB-178	40:05						0.000782	0.000782		
PCB-175	40:42						0.000735	0.000735		
PCB-187	40:57	560	1.05	1.1018	0.0320	0.0135	0.000635	0.000635		RQM
PCB-182	41:14						0.000757	0.000757		RQMU
PCB-183	41:34	3233	0.96	0.9825	0.0872	0.0872	0.000712	0.000712		M
PCB-185 (C183)	41:34	3233	0.96	0.9825	0.0872	0.0872	0.000712	0.000712		M
PCB-174	41:47	482	1.05	0.9642	0.0317	0.0132	0.000726	0.000726		RQM
PCB-177	42:16						0.000716	0.000716		
PCB-181	42:38						0.000736	0.000736		
PCB-171	42:57	1030	0.93	0.9336	0.0292	0.0292	0.000749	0.000749		M
PCB-173 (C171)	42:57	1030	0.93	0.9336	0.0292	0.0292	0.000749	0.000749		M
PCB-172	44:31						0.000821	0.000821		
PCB-192	44:46						0.000520	0.000520		
PCB-180	45:08	1252	1.05	1.1676	0.0549	0.0284	0.000599	0.000599		RQM
PCB-193 (C180)	45:08	1252	1.05	1.1676	0.0549	0.0284	0.000599	0.000599		RQM
PCB-191	45:30						0.000543	0.000543		
PCB-170	46:23	495	1.05	1.1865	0.0193	0.0142	0.000763	0.000763		RQ
PCB-190	46:56						0.000525	0.000525		
PCB-189	49:30						0.0113	0.0113		
S Total Octachlorobiphenyls					0.0376	0.0130	0.005194	0.005194		RQ
D PCB-202L	42:19	3520264	0.90	0.9818	94.4	94.4	0.0231	0.0231	94.43	
* PCB-194L	51:33	4882080	0.91		100.0	100.0				
D PCB-205L	52:02	5147588	0.91	1.1786	89.5	89.5	0.0718	0.0718	89.46	
PCB-202	42:23						0.003612	0.003612		
PCB-201	43:18						0.003836	0.003836		
PCB-204	43:58						0.003569	0.003569		
PCB-197	44:12						0.003266	0.003266		
PCB-200	44:19						0.003715	0.003715		
PCB-198	47:05						0.004302	0.004302		
PCB-199 (C198)	47:05						0.004302	0.004302		
PCB-196	47:45						0.004793	0.004793		
PCB-203	47:56	424	0.89	0.9292	0.0376	0.0130	0.004027	0.004027		RQM
PCB-195	49:13						0.0100	0.0100		RQU
PCB-194	51:37						0.008464	0.008464		
PCB-205	52:05						0.007575	0.007575		
S Total Nonachlorobiphenyls							0.1284	0.1284		
D PCB-208L	48:59	4712140	0.81	0.9576	100.8	100.8	0.3277	0.3277	101	
D PCB-206L	53:47	3372050	0.79	0.6947	99.4	99.4	0.4518	0.4518	99.43	
PCB-208	49:02						0.1083	0.1083		
PCB-207	49:58						0.1042	0.1042		
PCB-206	53:50						0.1284	0.1284		
D PCB-209L	55:25	3572078	0.73	0.6669	109.7	109.7	0.0784	0.0784	110	
DCB Decachlorobiphenyl	55:24	1158	0.69	1.1004	0.0542	0.0295	0.002503	0.002503		RQM
S Polychlorinated biphenyls, Total					62.9	0.0295	0.0357	0.0357		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

n - Failed Sig-To-Noise Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Lims ID: 140-36689-A-3-C
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 18:07:00 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-011
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 09:39:18 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 09:39:18

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:32	11:35	-2	0.724	4411580	1734376	878	2195	1975		
202.0766	11:32	11:35	-2	0.724	1408233	553801	3473	8682	159	3.13(2.66-3.60)	
PCB-3L											
200.0795	13:42	13:44	-1	0.859	4812753	1589561	878	2195	1810		
202.0766	13:42	13:44	-1	0.859	1529066	492453	3473	8682	142	3.15(2.66-3.60)	
PCB-1											
188.0393	11:33	11:33	-2	1.001	50914	21261	190	475	112		M
190.0363	11:33	11:33	-2	1.001	15679	5853	329	822	18	3.25(2.66-3.60)	M
PCB-2											
188.0393	13:32	13:32	-2	0.988	75540	25010	190	475	132		
190.0363	13:32	13:32	-2	0.988	23373	7180	329	822	22	3.23(2.66-3.60)	M
PCB-3											
188.0393	13:43	13:42	-1	1.001	78865	22327	190	475	118		
190.0363	13:43	13:42	-1	1.001	22472	7321	329	822	22	3.51(2.66-3.60)	
PCB-4L											
234.0406	13:57	14:00	-2	0.875	1718278	559035	597	1492	936		
236.0376	13:57	14:00	-2	0.875	1044075	343184	302	755	1136	1.65(1.33-1.79)	
PCB-9L											
234.0406	15:57	15:56	1		4017416	849322	597	1492	1423		
236.0376	15:57	15:56	1		2526752	541129	302	755	1792	1.59(1.33-1.79)	
PCB-8L											
234.0406	16:50	16:50	4	1.207	599333	92371	597	1492	155		a
236.0376	16:50	16:50	4	1.208	365065	60566	302	755	201	1.64(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											a
234.0406	20:04	20:06	15	1.259	1557615	349218	597	1492	585		a
236.0376	20:04	20:06	15	1.259	990050	225804	302	755	748	1.57(1.33-1.79)	
PCB-4											RQ
222.0003	13:58	13:58	-2	1.001	11748	3406	92	230	37		
	Empc Correction				8428	3612	92	230	39		
223.9974	13:58	13:58	-2	1.001	5403	2316	133	332	17	2.17(1.33-1.79)	
PCB-10											
222.0003	14:07						92	230			
223.9974	14:07						133	332			
PCB-9											a
222.0003	15:59	15:54	2	1.146	7478	1366	92	230	15		a
223.9974	15:58	15:54	0	1.144	4468	976	133	332	7	1.67(1.33-1.79)	
PCB-7											M
222.0003	16:07	16:07	0	1.156	16669	3069	92	230	33		
223.9974	16:07	16:07	0	1.156	11729	1945	133	332	15	1.42(1.33-1.79)	M
PCB-6											RQM
222.0003	16:24	16:24	2	1.175	18107	3417	92	230	37		M
	Empc Correction				12916	2196	92	230	24		
223.9974	16:24	16:24	2	1.175	8280	1408	133	332	11	2.19(1.33-1.79)	M
PCB-5											
222.0003	16:52						92	230			
223.9974	16:52						133	332			
PCB-8											M
222.0003	16:52	16:54	5	1.209	30921	4988	92	230	54		M
223.9974	16:50	16:54	4	1.208	22705	4000	133	332	30	1.36(1.33-1.79)	
PCB-14											
222.0003	18:39						92	230			
223.9974	18:39						133	332			
PCB-11											a
222.0003	19:29	19:16	15	0.971	525676	103261	92	230	1122		a
223.9974	19:29	19:16	15	0.971	330100	64584	133	332	486	1.59(1.33-1.79)	
PCB-12											RQa
222.0003	19:40	19:30	8	0.980	12421	1429	92	230	16		a
	Empc Correction				10626	1904	92	230	21		
223.9974	19:40	19:30	8	0.980	6812	1221	133	332	9	1.82(1.33-1.79)	
PCB-13 (C12)											RQa
222.0003	19:40	19:30	8	0.980	12421	1429	92	230	16		a
	Empc Correction				10626	1904	92	230	21		
223.9974	19:40	19:30	8	0.980	6812	1221	133	332	9	1.82(1.33-1.79)	
PCB-15											a
222.0003	20:05	20:07	15	1.001	8372	1739	92	230	19		a
223.9974	20:06	20:07	15	1.001	5641	1788	133	332	13	1.48(1.33-1.79)	
PCB-19L											
268.0016	17:09	17:15	5	0.836	802361	147729	824	2060	179		
269.9986	17:09	17:15	5	0.836	745295	135412	258	645	525	1.08(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:31	20:18	12		1857301	438273	824	2060	532		
269.9986	20:31	20:18	12		1715469	396774	258	645	1538	1.08(0.88-1.20)	
PCB-31L											
268.0016	22:39	22:34	5		6326278	1450029	1227	3067	1182		
269.9986	22:39	22:34	5		5901725	1364069	657	1642	2076	1.07(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:56	5	1.012	5262001	1178479	1227	3067	960		
269.9986	22:56	22:56	5	1.012	4920752	1100429	657	1642	1675	1.07(0.88-1.20)	
PCB-37L											
268.0016	26:52	26:56	2	1.186	4146589	891255	1227	3067	726		
269.9986	26:52	26:56	2	1.186	3877052	832103	657	1642	1267	1.07(0.88-1.20)	
PCB-19											
255.9613	17:12	17:13	7	1.003	1474	460	9	22	51		RQM
	Empc Correction				1203	273	9	22	30		M
257.9584	17:09	17:13	4	0.999	1157	263	13	32	20	1.27(0.88-1.20)	M
PCB-18											
255.9613	19:00						9	22			
257.9584	19:00						13	32			
PCB-30 (C18)											
255.9613	19:00						9	22			
257.9584	19:00						13	32			
PCB-17											
255.9613	19:26						9	22			
257.9584	19:26						13	32			
PCB-27											
255.9613	19:36	19:35	2	1.143	6762	1317	9	22	146		a
257.9584	19:35	19:35	1	1.142	6712	1647	13	32	127	1.01(0.88-1.20)	a
PCB-24											
255.9613	19:48						9	22			
257.9584	19:48						13	32			
PCB-16											
255.9613	19:55						9	22			
257.9584	19:55						13	32			
PCB-32											
255.9613	20:31	20:31	11	1.196	6078	1417	9	22	157		a
257.9584	20:31	20:31	12	1.196	5716	1445	13	32	111	1.06(0.88-1.20)	a
PCB-34											
255.9613	21:41						118	295			
257.9584	21:41						89	222			
PCB-23											
255.9613	21:49						118	295			
257.9584	21:49						89	222			
PCB-26											
255.9613	22:09	22:09	7	1.291	13484	3579	118	295	30		
257.9584	22:08	22:09	5	1.290	14109	3129	89	222	35	0.96(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											
255.9613	22:09	22:09	7	1.291	13484	3579	118	295	30		
257.9584	22:08	22:09	5	1.290	14109	3129	89	222	35	0.96(0.88-1.20)	
PCB-25											
255.9613	22:23	22:22	7	0.833	14248	2842	118	295	24		RQa
257.9584	22:22	22:22	6	0.832	18857	4476	89	222	50	0.76(0.88-1.20)	a
Empc Correction					13700	2732	89	222	31		
PCB-31											
255.9613	22:41	22:42	6	0.844	55679	12436	118	295	105		Ma
257.9584	22:41	22:42	6	0.844	52823	13158	89	222	148	1.05(0.88-1.20)	M
PCB-20											
255.9613	22:58	22:57	4	0.854	71333	15097	118	295	128		M
257.9584	22:58	22:57	4	0.854	69940	15685	89	222	176	1.02(0.88-1.20)	M
PCB-28 (C20)											
255.9613	22:58	22:57	4	0.854	71333	15097	118	295	128		M
257.9584	22:58	22:57	4	0.854	69940	15685	89	222	176	1.02(0.88-1.20)	M
PCB-21											
255.9613	23:11	23:12	8	0.863	35457	7231	118	295	61		RQa
257.9584	23:12	23:12	9	0.863	57195	10030	89	222	113	0.62(0.88-1.20)	a
Empc Correction					34093	6952	89	222	78		
PCB-33 (C21)											
255.9613	23:11	23:12	8	0.863	35457	7231	118	295	61		RQa
257.9584	23:12	23:12	9	0.863	57195	10030	89	222	113	0.62(0.88-1.20)	a
Empc Correction					34093	6952	89	222	78		
PCB-22											
255.9613	23:34	23:35	4	0.877	25125	5728	118	295	49		RQM
257.9584	23:36	23:35	6	0.878	29738	5324	89	222	60	0.84(0.88-1.20)	M
Empc Correction					24158	5507	89	222	62		
PCB-36											
255.9613	25:08	25:05	4	0.935	2437	926	118	295	8		RQM
257.9584	25:06	25:05	3	0.934	5480	991	89	222	11	0.44(0.88-1.20)	M
Empc Correction					2343	890	89	222	10		
PCB-39											
255.9613	25:28						118	295			
257.9584	25:28						89	222			
PCB-38											
255.9613	26:02						118	295			
257.9584	26:02						89	222			
PCB-35											
255.9613	26:29	26:29	2	0.986	12736	3036	118	295	26		RQ
257.9584	26:29	26:29	2	0.986	16409	3303	89	222	37	0.78(0.88-1.20)	
Empc Correction					12246	2919	89	222	33		
PCB-37											
255.9613	26:53	26:51	1	1.000	11401	1651	118	295	14		
257.9584	26:52	26:51	1	1.000	11051	2789	89	222	31	1.03(0.88-1.20)	
PCB-54L											
301.9626	20:22	20:23	14	0.823	596427	134175	91	227	1474		a
303.9597	20:22	20:23	14	0.823	749013	160362	20	50	8018	0.80(0.65-0.89)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-52L											
301.9626	24:44	24:41	3		2733626	624165	561	1402	1113		
303.9597	24:44	24:41	3		3397573	761128	617	1542	1234	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:35	32:33	0	0.971	928947	187173	561	1402	334		
303.9597	32:35	32:33	0	0.971	1165728	238245	617	1542	386	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:34	33:38	-1	1.357	2553702	505521	561	1402	901		
303.9597	33:34	33:38	-1	1.357	3268013	656075	617	1542	1063	0.78(0.65-0.89)	
PCB-77L											
301.9626	34:08	34:11	-1	1.380	2765114	541924	561	1402	966		
303.9597	34:08	34:11	-1	1.380	3451418	674973	617	1542	1094	0.80(0.65-0.89)	
PCB-54											
289.9224	20:10						11	27			
291.9194	20:10						2	5			
PCB-50											
289.9224	22:24						87	217			
291.9194	22:24						319	797			
PCB-53 (C50)											
289.9224	22:24						87	217			
291.9194	22:24						319	797			
PCB-45											
289.9224	23:08	23:08	5	1.136	73793	15218	87	217	175		a
291.9194	23:08	23:08	4	1.136	96862	20697	319	797	65	0.76(0.65-0.89)	a
PCB-51 (C45)											
289.9224	23:08	23:08	5	1.136	73793	15218	87	217	175		a
291.9194	23:08	23:08	4	1.136	96862	20697	319	797	65	0.76(0.65-0.89)	a
PCB-46											
289.9224	23:33						87	217			
291.9194	23:33						319	797			
PCB-52											
289.9224	24:46	24:42	4	1.216	28257	7125	87	217	82		a
291.9194	24:46	24:42	4	1.216	32532	6770	319	797	21	0.87(0.65-0.89)	a
PCB-43											
289.9224	25:07						87	217			
291.9194	25:07						319	797			
PCB-73 (C43)											
289.9224	25:07						87	217			
291.9194	25:07						319	797			
PCB-49											
289.9224	25:13	25:14	5	1.239	16421	3682	87	217	42		a
291.9194	25:14	25:14	6	1.239	25319	6606	319	797	21	0.65(0.65-0.89)	a
PCB-69 (C49)											
289.9224	25:13	25:14	5	1.239	16421	3682	87	217	42		a
291.9194	25:14	25:14	6	1.239	25319	6606	319	797	21	0.65(0.65-0.89)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-48											
289.9224	25:32						87	217			
291.9194	25:32						319	797			
PCB-44											
289.9224	25:46	25:43	4	1.266	350097	76224	87	217	876		
291.9194	25:46	25:43	4	1.266	431585	94947	319	797	298	0.81(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:46	25:43	4	1.266	350097	76224	87	217	876		
291.9194	25:46	25:43	4	1.266	431585	94947	319	797	298	0.81(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:46	25:43	4	1.266	350097	76224	87	217	876		
291.9194	25:46	25:43	4	1.266	431585	94947	319	797	298	0.81(0.65-0.89)	
PCB-59											
289.9224	26:18						87	217			
291.9194	26:18						319	797			
PCB-62 (C59)											
289.9224	26:18						87	217			
291.9194	26:18						319	797			
PCB-75 (C59)											
289.9224	26:18						87	217			
291.9194	26:18						319	797			
PCB-42											
289.9224	26:15						87	217			
291.9194	26:15						319	797			
PCB-40											
289.9224	26:44	26:42	1	1.313	7333	1531	87	217	18		
291.9194	26:45	26:42	2	1.314	9712	1789	319	797	6	0.76(0.65-0.89)	
PCB-41 (C40)											
289.9224	26:44	26:42	1	1.313	7333	1531	87	217	18		
291.9194	26:45	26:42	2	1.314	9712	1789	319	797	6	0.76(0.65-0.89)	
PCB-71 (C40)											
289.9224	26:44	26:42	1	1.313	7333	1531	87	217	18		
291.9194	26:45	26:42	2	1.314	9712	1789	319	797	6	0.76(0.65-0.89)	
PCB-64											
289.9224	26:59	26:57	3	1.325	7934	1932	87	217	22		
291.9194	26:58	26:57	2	1.324	18297	3163	319	797	10	0.43(0.65-0.89)	
	Empc Correction				10303	2509	319	797	8		
PCB-72											
289.9224	27:46						87	217			
291.9194	27:46						319	797			
PCB-68											
289.9224	28:05	28:03	1	0.836	77337	15962	87	217	183		
291.9194	28:04	28:03	1	0.836	101808	21261	319	797	67	0.76(0.65-0.89)	
PCB-57											
289.9224	28:28						87	217			
291.9194	28:28						319	797			

RQ

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-58											
289.9224	28:43						87	217			
291.9194	28:43						319	797			
PCB-67											
289.9224	28:53						87	217			
291.9194	28:53						319	797			
PCB-63											
289.9224	29:09						87	217			
291.9194	29:09						319	797			
PCB-61											
289.9224	29:28	29:27	0	0.878	25693	3792	87	217	44		
291.9194	29:29	29:27	1	0.878	31624	4285	319	797	13	0.81(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:28	29:27	0	0.878	25693	3792	87	217	44		
291.9194	29:29	29:27	1	0.878	31624	4285	319	797	13	0.81(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:28	29:27	0	0.878	25693	3792	87	217	44		
291.9194	29:29	29:27	1	0.878	31624	4285	319	797	13	0.81(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:28	29:27	0	0.878	25693	3792	87	217	44		
291.9194	29:29	29:27	1	0.878	31624	4285	319	797	13	0.81(0.65-0.89)	
PCB-66											
289.9224	29:47	29:49	0	0.888	11583	2546	87	217	29		
291.9194	29:47	29:49	0	0.888	16973	3901	319	797	12	0.68(0.65-0.89)	
PCB-55											
289.9224	29:58						87	217			
291.9194	29:58						319	797			
PCB-56											
289.9224	30:28	30:27	0	0.908	6532	1811	87	217	21		M
291.9194	30:27	30:27	-1	0.907	8107	2190	319	797	7	0.81(0.65-0.89)	M
PCB-60											
289.9224	30:40	30:39	0	0.914	3510	921	87	217	11		M
291.9194	30:41	30:39	1	0.914	5154	1299	319	797	4	0.68(0.65-0.89)	M
PCB-80											
289.9224	31:05						87	217			
291.9194	31:05						319	797			
PCB-79											
289.9224	32:37						87	217			
291.9194	32:37						319	797			
PCB-78											
289.9224	33:10						87	217			
291.9194	33:10						319	797			
PCB-81											
289.9224	33:36						87	217			
291.9194	33:36						319	797			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-77											M
289.9224	34:09	34:09	-1	1.001	5979	1450	87	217	17		M
291.9194	34:11	34:09	1	1.001	8608	2079	319	797	7	0.69(0.65-0.89)	M
PCB-104L											
337.9207	25:40	25:37	2	0.814	2749268	604023	117	292	5163		
339.9178	25:40	25:37	2	0.814	1717555	377144	86	215	4385	1.60(1.32-1.78)	
PCB-95L											
337.9207	28:35	28:38	0	1.114	702250	150795	117	292	1289		
339.9178	28:36	28:38	1	1.115	451494	92797	86	215	1079	1.56(1.32-1.78)	
PCB-101L											
337.9207	31:31	31:31	0		2447680	511847	117	292	4375		
339.9178	31:31	31:31	0		1552309	330232	86	215	3840	1.58(1.32-1.78)	
PCB-111L											
337.9207	34:11	34:11	-1	1.084	2929044	604754	117	292	5169		
339.9178	34:11	34:11	-1	1.084	1810225	371010	86	215	4314	1.62(1.32-1.78)	
PCB-123L											
337.9207	36:08	36:08	-1	1.146	3546800	693246	3180	7950	218		
339.9178	36:08	36:08	-1	1.146	2250763	440429	2407	6017	183	1.58(1.32-1.78)	
PCB-118L											
337.9207	36:27	36:27	-1	1.156	3755474	744607	3180	7950	234		
339.9178	36:27	36:27	-1	1.156	2336788	469661	2407	6017	195	1.61(1.32-1.78)	
PCB-114L											
337.9207	36:58	36:59	-1	1.173	3637952	714681	3180	7950	225		
339.9178	36:58	36:59	-1	1.173	2279177	443182	2407	6017	184	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:37	37:37	-1	1.194	3474259	673221	3180	7950	212		
339.9178	37:37	37:37	-1	1.194	2199058	433894	2407	6017	180	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:05	39:07	-2		4065098	789106	3180	7950	248		
339.9178	39:05	39:07	-2		2559059	495591	2407	6017	206	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:42	40:43	-2	1.291	3385015	658100	3180	7950	207		
339.9178	40:42	40:43	-2	1.291	2122108	411306	2407	6017	171	1.60(1.32-1.78)	
PCB-104											
325.8804	25:41						51	127			
327.8775	25:41						12	30			
PCB-96											
325.8804	26:04						51	127			
327.8775	26:04						12	30			
PCB-103											
325.8804	27:59						51	127			
327.8775	27:59						12	30			
PCB-94											
325.8804	28:13						51	127			
327.8775	28:13						12	30			

Signal	RT (min.)	Adj RT (min.)	ꞑ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95											RQM
325.8804	28:37	28:39	1	1.115	6768	1585	51	127	31	1.24(1.32-1.78)	M
327.8775	28:35	28:39	-2	1.114	5471	1167	12	30	97		
Empc Correction					4366	1022	12	30	85		
PCB-93											RQ
325.8804	28:48	28:52	-1	1.123	1299	464	51	127	9	1.97(1.32-1.78)	
Empc Correction					1019	358	51	127	7		
327.8775	28:48	28:52	-1	1.123	658	231	12	30	19		
PCB-100 (C93)											RQ
325.8804	28:48	28:52	-1	1.123	1299	464	51	127	9	1.97(1.32-1.78)	
Empc Correction					1019	358	51	127	7		
327.8775	28:48	28:52	-1	1.123	658	231	12	30	19		
PCB-98											
325.8804	28:57						51	127			
327.8775	28:57						12	30			
PCB-102 (C98)											
325.8804	28:57						51	127			
327.8775	28:57						12	30			
PCB-88											RQM
325.8804	29:28	29:31	0	1.149	2004	447	51	127	9	1.16(1.32-1.78)	M
327.8775	29:27	29:31	-2	1.148	1723	348	12	30	29		
Empc Correction					1292	288	12	30	24		
PCB-91 (C88)											RQM
325.8804	29:28	29:31	0	1.149	2004	447	51	127	9	1.16(1.32-1.78)	M
327.8775	29:27	29:31	-2	1.148	1723	348	12	30	29		
Empc Correction					1292	288	12	30	24		
PCB-84											RQM
325.8804	29:41	29:44	-1	1.157	3089	1115	51	127	22	2.13(1.32-1.78)	M
Empc Correction					2242	561	51	127	11		
327.8775	29:41	29:44	-1	1.157	1447	362	12	30	30		
PCB-89											RnQM
325.8804	30:10	30:13	0	1.176	166	90	51	127	2	0.89(1.32-1.78)	M
327.8775	30:09	30:13	-1	1.175	187	92	12	30	8		
Empc Correction					107	58	12	30	5		
PCB-121											RQM
325.8804	30:36	30:38	1	1.193	1851	381	51	127	7	4.18(1.32-1.78)	M
Empc Correction					686	224	51	127	4		
327.8775	30:33	30:38	-1	1.191	443	145	12	30	12		
PCB-92											M
325.8804	31:00	30:56	3	0.858	782	199	51	127	4	1.32(1.32-1.78)	M
327.8775	31:00	30:56	2	0.858	594	154	12	30	13		
PCB-90											M
325.8804	31:33	31:34	1	1.229	9535	2256	51	127	44	1.44(1.32-1.78)	M
327.8775	31:32	31:34	1	1.229	6632	1375	12	30	115		
PCB-101 (C90)											M
325.8804	31:33	31:34	1	1.229	9535	2256	51	127	44	1.44(1.32-1.78)	M
327.8775	31:32	31:34	1	1.229	6632	1375	12	30	115		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-113 (C90)											M
325.8804	31:33	31:34	1	1.229	9535	2256	51	127	44		M
327.8775	31:32	31:34	1	1.229	6632	1375	12	30	115	1.44(1.32-1.78)	M
PCB-83											
325.8804	32:07	32:09	1	1.252	6252	1058	51	127	21		
327.8775	32:07	32:09	1	1.252	3719	664	12	30	55	1.68(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:07	32:09	1	1.252	6252	1058	51	127	21		
327.8775	32:07	32:09	1	1.252	3719	664	12	30	55	1.68(1.32-1.78)	
PCB-112											
325.8804	32:17						51	127			
327.8775	32:17						12	30			
PCB-86											RQM
325.8804	32:34	32:38	-2	1.269	6480	711	51	127	14		M
	Empc Correction				5237	1143	51	127	22		
327.8775	32:42	32:38	5	1.274	3379	738	12	30	62	1.92(1.32-1.78)	M
PCB-87 (C86)											RQM
325.8804	32:34	32:38	-2	1.269	6480	711	51	127	14		M
	Empc Correction				5237	1143	51	127	22		
327.8775	32:42	32:38	5	1.274	3379	738	12	30	62	1.92(1.32-1.78)	M
PCB-97 (C86)											RQM
325.8804	32:34	32:38	-2	1.269	6480	711	51	127	14		M
	Empc Correction				5237	1143	51	127	22		
327.8775	32:42	32:38	5	1.274	3379	738	12	30	62	1.92(1.32-1.78)	M
PCB-109 (C86)											RQM
325.8804	32:34	32:38	-2	1.269	6480	711	51	127	14		M
	Empc Correction				5237	1143	51	127	22		
327.8775	32:42	32:38	5	1.274	3379	738	12	30	62	1.92(1.32-1.78)	M
PCB-119 (C86)											RQM
325.8804	32:34	32:38	-2	1.269	6480	711	51	127	14		M
	Empc Correction				5237	1143	51	127	22		
327.8775	32:42	32:38	5	1.274	3379	738	12	30	62	1.92(1.32-1.78)	M
PCB-125 (C86)											RQM
325.8804	32:34	32:38	-2	1.269	6480	711	51	127	14		M
	Empc Correction				5237	1143	51	127	22		
327.8775	32:42	32:38	5	1.274	3379	738	12	30	62	1.92(1.32-1.78)	M
PCB-85											M
325.8804	33:22	33:22	2	1.300	2499	557	51	127	11		M
327.8775	33:19	33:22	0	1.299	1820	440	12	30	37	1.37(1.32-1.78)	M
PCB-116 (C85)											M
325.8804	33:22	33:22	2	1.300	2499	557	51	127	11		M
327.8775	33:19	33:22	0	1.299	1820	440	12	30	37	1.37(1.32-1.78)	M
PCB-117 (C85)											M
325.8804	33:22	33:22	2	1.300	2499	557	51	127	11		M
327.8775	33:19	33:22	0	1.299	1820	440	12	30	37	1.37(1.32-1.78)	M
PCB-110											Ma
325.8804	33:31	33:30	-1	1.306	9514	2274	51	127	45		M
327.8775	33:29	33:30	-2	1.305	6279	1992	12	30	166	1.52(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-115 (C110)											Ma
325.8804	33:31	33:30	-1	1.306	9514	2274	51	127	45		M
327.8775	33:29	33:30	-2	1.305	6279	1992	12	30	166	1.52(1.32-1.78)	
PCB-82											RQM
325.8804	33:49	33:53	0	1.318	470	248	51	127	5		M
	Empc Correction				286	103	51	127	2		
327.8775	33:48	33:53	-1	1.318	185	67	12	30	6	2.54(1.32-1.78)	M
PCB-111											
325.8804	34:17						51	127			
327.8775	34:17						12	30			
PCB-120											
325.8804	34:44						51	127			
327.8775	34:44						12	30			
PCB-108											
325.8804	35:52						97	242			
327.8775	35:52						88	220			
PCB-124 (C108)											
325.8804	35:52						97	242			
327.8775	35:52						88	220			
PCB-107											
325.8804	36:07						97	242			
327.8775	36:07						88	220			
PCB-123											
325.8804	36:11						97	242			
327.8775	36:11						88	220			
PCB-106											
325.8804	36:18						97	242			
327.8775	36:18						88	220			
PCB-118											
325.8804	36:28	36:27	-1	1.001	9265	2219	97	242	23		
327.8775	36:30	36:27	0	1.001	5391	921	88	220	10	1.72(1.32-1.78)	
PCB-122											
325.8804	36:50						97	242			
327.8775	36:50						88	220			
PCB-114											
325.8804	36:58						97	242			
327.8775	36:58						88	220			
PCB-105											
325.8804	37:38						97	242			
327.8775	37:38						88	220			
PCB-127											
325.8804	39:09						97	242			
327.8775	39:09						88	220			
PCB-126											
325.8804	40:44						97	242			
327.8775	40:44						88	220			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-155L											
371.8817	31:16	31:15	0	0.790	2306897	474556	82	205	5787		
373.8788	31:16	31:15	0	0.790	1779303	370113	49	122	7553	1.30(1.05-1.43)	
PCB-153L											
371.8817	38:20	38:18	-1	0.901	852604	161901	164	410	987		
373.8788	38:20	38:18	-1	0.901	654884	128191	1213	3032	106	1.30(1.05-1.43)	
PCB-138L											
371.8817	39:34	39:35	-2		2693272	530381	164	410	3234		
373.8788	39:34	39:35	-2		2130937	414670	1213	3032	342	1.26(1.05-1.43)	
PCB-167L											
371.8817	42:34	42:33	-2	1.076	2889580	541433	164	410	3301		
373.8788	42:34	42:33	-2	1.076	2257193	427931	1213	3032	353	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:42	43:41	-2	1.105	5679324	737431	164	410	4497		
373.8788	43:42	43:41	-2	1.105	4429289	579702	1213	3032	478	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:42	43:41	-2	1.105	5679324	737431	164	410	4497		
373.8788	43:42	43:41	-2	1.105	4429289	579702	1213	3032	478	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:56	46:55	-2	1.186	2809807	516414	164	410	3149		
373.8788	46:56	46:55	-2	1.186	2184946	410416	1213	3032	338	1.29(1.05-1.43)	
PCB-155											
359.8415	31:19	31:17	1	1.001	659	228	3	7	76		RQM
Empc Correction											M
361.8385	31:18	31:17	0	1.001	25	14	3	7	5	26.36(1.05-1.43)	M
PCB-152											
359.8415	31:32						3	7			
361.8385	31:32						3	7			
PCB-150											
359.8415	31:39						3	7			
361.8385	31:39						3	7			
PCB-136											
359.8415	32:01						3	7			
361.8385	32:01						3	7			
PCB-145											
359.8415	32:21						3	7			
361.8385	32:21						3	7			
PCB-148											
359.8415	33:49						3	7			
361.8385	33:49						3	7			
PCB-135											
359.8415	34:27	34:24	1	1.101	1135	235	3	7	78		M
361.8385	34:29	34:24	4	1.103	809	331	3	7	110	1.40(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:27	34:24	1	1.101	1135	235	3	7	78		M
361.8385	34:29	34:24	4	1.103	809	331	3	7	110	1.40(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-154											RQMU
359.8415	34:42						3	7			
361.8385	34:42						3	7			
PCB-144											
359.8415	34:58						3	7			
361.8385	34:58						3	7			
PCB-147											
359.8415	35:22	35:18	2	1.131	6116	1157	19	47	61		
361.8385	35:21	35:18	0	1.130	5185	973	2	5	487	1.18(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:22	35:18	2	1.131	6116	1157	19	47	61		
361.8385	35:21	35:18	0	1.130	5185	973	2	5	487	1.18(1.05-1.43)	
PCB-134											
359.8415	35:41						19	47			
361.8385	35:41						2	5			
PCB-143 (C134)											
359.8415	35:41						19	47			
361.8385	35:41						2	5			
PCB-139											Ma
359.8415	35:57	35:58	0	1.149	401	174	19	47	9		M
361.8385	35:58	35:58	1	1.150	338	129	2	5	65	1.19(1.05-1.43)	a
PCB-140 (C139)											Ma
359.8415	35:57	35:58	0	1.149	401	174	19	47	9		M
361.8385	35:58	35:58	1	1.150	338	129	2	5	65	1.19(1.05-1.43)	a
PCB-131											
359.8415	36:11						19	47			
361.8385	36:11						2	5			
PCB-142											
359.8415	36:19						19	47			
361.8385	36:19						2	5			
PCB-132											
359.8415	36:36	36:39	-1	1.170	2787	850	19	47	45		
361.8385	36:38	36:39	1	1.171	2245	444	2	5	222	1.24(1.05-1.43)	
PCB-133											RQ
359.8415	37:09	37:08	2	1.188	635	215	19	47	11		
	Empc Correction				88	47	19	47	2		
361.8385	37:08	37:08	1	1.187	71	38	2	5	19	8.94(1.05-1.43)	
PCB-165											
359.8415	37:30						19	47			
361.8385	37:30						2	5			
PCB-146											RQM
359.8415	37:45	37:45	-1	0.887	1367	332	19	47	17		M
	Empc Correction				626	168	19	47	9		
361.8385	37:45	37:45	-1	0.887	505	136	2	5	68	2.71(1.05-1.43)	
PCB-161											
359.8415	37:53						19	47			
361.8385	37:53						2	5			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-153											M
359.8415	38:21	38:19	-2	0.901	7634	2193	19	47	115		M
361.8385	38:20	38:19	-3	0.901	5660	1276	2	5	638	1.35(1.05-1.43)	M
PCB-168 (C153)											M
359.8415	38:21	38:19	-2	0.901	7634	2193	19	47	115		M
361.8385	38:20	38:19	-3	0.901	5660	1276	2	5	638	1.35(1.05-1.43)	M
PCB-141											
359.8415	38:31						19	47			
361.8385	38:31						2	5			
PCB-130											
359.8415	38:56						19	47			
361.8385	38:56						2	5			
PCB-137											
359.8415	39:11						19	47			
361.8385	39:11						2	5			
PCB-164											
359.8415	39:18						19	47			
361.8385	39:18						2	5			
PCB-129											RQM
359.8415	39:36	39:36	-2	0.930	5962	1228	19	47	65		M
	Empc Correction				4685	793	19	47	42		
361.8385	39:36	39:36	-2	0.930	3779	640	2	5	320	1.58(1.05-1.43)	
PCB-138 (C129)											RQM
359.8415	39:36	39:36	-2	0.930	5962	1228	19	47	65		M
	Empc Correction				4685	793	19	47	42		
361.8385	39:36	39:36	-2	0.930	3779	640	2	5	320	1.58(1.05-1.43)	
PCB-160 (C129)											RQM
359.8415	39:36	39:36	-2	0.930	5962	1228	19	47	65		M
	Empc Correction				4685	793	19	47	42		
361.8385	39:36	39:36	-2	0.930	3779	640	2	5	320	1.58(1.05-1.43)	
PCB-163 (C129)											RQM
359.8415	39:36	39:36	-2	0.930	5962	1228	19	47	65		M
	Empc Correction				4685	793	19	47	42		
361.8385	39:36	39:36	-2	0.930	3779	640	2	5	320	1.58(1.05-1.43)	
PCB-158											
359.8415	39:59	39:57	-1	0.939	1452	412	19	47	22		
361.8385	39:57	39:57	-2	0.939	1179	387	2	5	194	1.23(1.05-1.43)	
PCB-128											RQM
359.8415	40:50	40:49	-2	0.959	1704	433	19	47	23		M
	Empc Correction				576	198	19	47	10		
361.8385	40:50	40:49	-1	0.960	465	160	2	5	80	3.66(1.05-1.43)	
PCB-166 (C128)											RQM
359.8415	40:50	40:49	-2	0.959	1704	433	19	47	23		M
	Empc Correction				576	198	19	47	10		
361.8385	40:50	40:49	-1	0.960	465	160	2	5	80	3.66(1.05-1.43)	
PCB-159											
359.8415	41:51						19	47			
361.8385	41:51						2	5			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-162											
359.8415	42:08						19	47			
361.8385	42:08						2	5			
PCB-167											
359.8415	42:36						19	47			RQU
361.8385	42:36						2	5			
PCB-156											
359.8415	43:42	43:47	-4	1.000	1386	380	19	47	20		RQ
	Empc Correction				158	84	19	47	4		
361.8385	43:42	43:47	-5	1.000	128	68	2	5	34	10.83(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:42	43:47	-4	1.000	1386	380	19	47	20		RQ
	Empc Correction				158	84	19	47	4		
361.8385	43:42	43:47	-5	1.000	128	68	2	5	34	10.83(1.05-1.43)	
PCB-169											
359.8415	46:58						19	47			
361.8385	46:58						2	5			
PCB-188L											
405.8428	36:58	36:58	-1	0.820	2393305	452212	98	245	4614		
407.8398	36:58	36:58	-1	0.820	2222742	424828	43	107	9880	1.08(0.89-1.21)	
PCB-178L											
405.8428	40:01	40:01	-2	0.887	1814138	356838	98	245	3641		
407.8398	40:01	40:01	-2	0.887	1664654	324696	43	107	7551	1.09(0.89-1.21)	
PCB-180L											
405.8428	45:06	45:08	-2		1955146	371725	98	245	3793		
407.8398	45:06	45:08	-2		1841706	355857	43	107	8276	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:21	46:21	-2	1.028	1511788	283412	98	245	2892		
407.8398	46:21	46:21	-2	1.028	1419223	269051	43	107	6257	1.07(0.89-1.21)	
PCB-189L											
405.8428	49:28	49:27	-1	1.097	3080339	560101	1209	3022	463		
407.8398	49:28	49:27	-1	1.097	2926265	544677	696	1740	783	1.05(0.89-1.21)	
PCB-188											
393.8025	37:01						1	2			
395.7995	37:01						1	2			
PCB-179											
393.8025	37:22	37:20	0	1.011	128	51	1	2	51		RQM
395.7995	37:22	37:20	0	1.011	644	214	1	2	214	0.20(0.89-1.21)	M
	Empc Correction				121	48	1	2	48		
PCB-184											
393.8025	37:52						1	2			
395.7995	37:52						1	2			
PCB-176											
393.8025	38:14						1	2			
395.7995	38:14						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-186											
393.8025	38:41						1	2			
395.7995	38:41						1	2			
PCB-178											
393.8025	40:02						1	2			
395.7995	40:02						1	2			
PCB-175											
393.8025	40:40						1	2			
395.7995	40:40						1	2			
PCB-187											
393.8025	40:57	40:55	-1	1.108	287	113	1	2	113		RQM
395.7995	40:56	40:55	-2	1.107	1045	253	1	2	253	0.27(0.89-1.21)	M
Empc Correction					273	107	1	2	107		
PCB-182											
393.8025	41:11						1	2			RQMU
395.7995	41:11						1	2			
PCB-183											
393.8025	41:34	41:39	-1	1.124	1583	368	1	2	368		M
395.7995	41:34	41:39	-2	1.124	1650	394	1	2	394	0.96(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:34	41:39	-1	1.124	1583	368	1	2	368		M
395.7995	41:34	41:39	-2	1.124	1650	394	1	2	394	0.96(0.89-1.21)	M
PCB-174											
393.8025	41:47	41:47	-2	1.130	247	135	1	2	135		RQM
395.7995	41:45	41:47	-5	1.129	908	396	1	2	396	0.27(0.89-1.21)	M
Empc Correction					235	128	1	2	128		
PCB-177											
393.8025	42:15						1	2			
395.7995	42:15						1	2			
PCB-181											
393.8025	42:38						1	2			
395.7995	42:38						1	2			
PCB-171											
393.8025	42:57	42:52	5	1.162	495	189	1	2	189		M
395.7995	42:55	42:52	3	1.161	535	171	1	2	171	0.93(0.89-1.21)	M
PCB-173 (C171)											
393.8025	42:57	42:52	5	1.162	495	189	1	2	189		M
395.7995	42:55	42:52	3	1.161	535	171	1	2	171	0.93(0.89-1.21)	M
PCB-172											
393.8025	44:30						1	2			
395.7995	44:30						1	2			
PCB-192											
393.8025	44:46						1	2			
395.7995	44:46						1	2			
PCB-180											
393.8025	45:08	45:10	1	0.912	1806	503	1	2	503		RQM
Empc Correction					641	265	1	2	265		M
395.7995	45:08	45:10	2	0.913	611	253	1	2	253	2.96(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-193 (C180)											RQM
393.8025	45:08	45:10	1	0.912	1806	503	1	2	503		M
	Empc Correction				641	265	1	2	265		
395.7995	45:08	45:10	2	0.913	611	253	1	2	253	2.96(0.89-1.21)	M
PCB-191											
393.8025	45:30						1	2			
395.7995	45:30						1	2			
PCB-170											RQ
393.8025	46:23	46:22	-1	0.938	254	121	1	2	121		
395.7995	46:23	46:22	-1	0.938	416	203	1	2	203	0.61(0.89-1.21)	
	Empc Correction				241	115	1	2	115		
PCB-190											
393.8025	46:55						1	2			
395.7995	46:55						1	2			
PCB-189											
393.8025	49:30						28	70			
395.7995	49:30						20	50			
PCB-202L											
439.8038	42:19	42:19	-2	0.821	1665705	317172	63	157	5034		
441.8008	42:19	42:19	-2	0.821	1854559	350963	3	7	116988	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:33	51:36	-2		2331629	435699	158	395	2758		
441.8008	51:33	51:36	-2		2550451	477155	151	377	3160	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:02	52:02	-2	1.009	2447831	445269	158	395	2818		
441.8008	52:02	52:02	-2	1.009	2699757	489195	151	377	3240	0.91(0.76-1.02)	
PCB-202											
427.7635	42:22						6	15			
429.7606	42:22						4	10			
PCB-201											
427.7635	43:16						6	15			
429.7606	43:16						4	10			
PCB-204											
427.7635	43:59						6	15			
429.7606	43:59						4	10			
PCB-197											
427.7635	44:10						6	15			
429.7606	44:10						4	10			
PCB-200											
427.7635	44:19						6	15			
429.7606	44:19						4	10			
PCB-198											
427.7635	47:05						6	15			
429.7606	47:05						4	10			
PCB-199 (C198)											
427.7635	47:05						6	15			
429.7606	47:05						4	10			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-196											
427.7635	47:45						6	15			
429.7606	47:45						4	10			
PCB-203											
427.7635	47:56	47:55	-2	0.921	200	95	6	15	16		RQM
429.7606	47:56	47:55	-1	0.921	1029	220	4	10	55	0.19(0.76-1.02)	M
Empc Correction					224	106	4	10	27		
PCB-195											
427.7635	49:16						17	42			RQU
429.7606	49:16						14	35			
PCB-194											
427.7635	51:37						17	42			
429.7606	51:37						14	35			
PCB-205											
427.7635	52:04						17	42			
429.7606	52:04						14	35			
PCB-208L											
473.7648	48:59	48:59	-2	0.950	2105541	385018	533	1332	722		
475.7619	48:59	48:59	-2	0.950	2606599	481546	613	1532	786	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:47	53:47	-2	1.043	1483063	279468	533	1332	524		
475.7619	53:47	53:47	-2	1.043	1888987	343139	613	1532	560	0.79(0.65-0.89)	
PCB-208											
461.7246	49:01						253	632			
463.7216	49:01						174	435			
PCB-207											
461.7246	49:57						253	632			
463.7216	49:57						174	435			
PCB-206											
461.7246	53:49						253	632			
463.7216	53:49						174	435			
PCB-209L											
507.7258	55:25	55:24	-1	1.075	1505273	259575	97	242	2676		
509.7229	55:24	55:24	-2	1.074	2066805	357736	94	235	3806	0.73(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:24	55:25	-4	1.000	473	141	6	15	24		RQM
497.6826	55:28	55:25	1	1.001	1657	434	1	2	434	0.29(0.59-0.79)	M
Empc Correction					685	204	1	2	204		

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

n - Failed Sig-To-Noise Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d

Injection Date: 11-Jun-2024 18:07:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 3 COMBINED

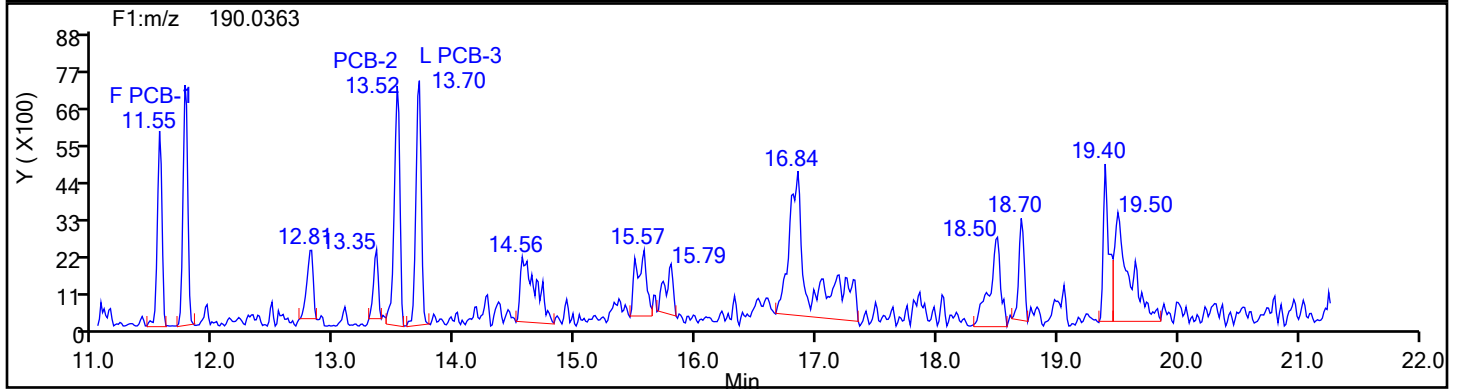
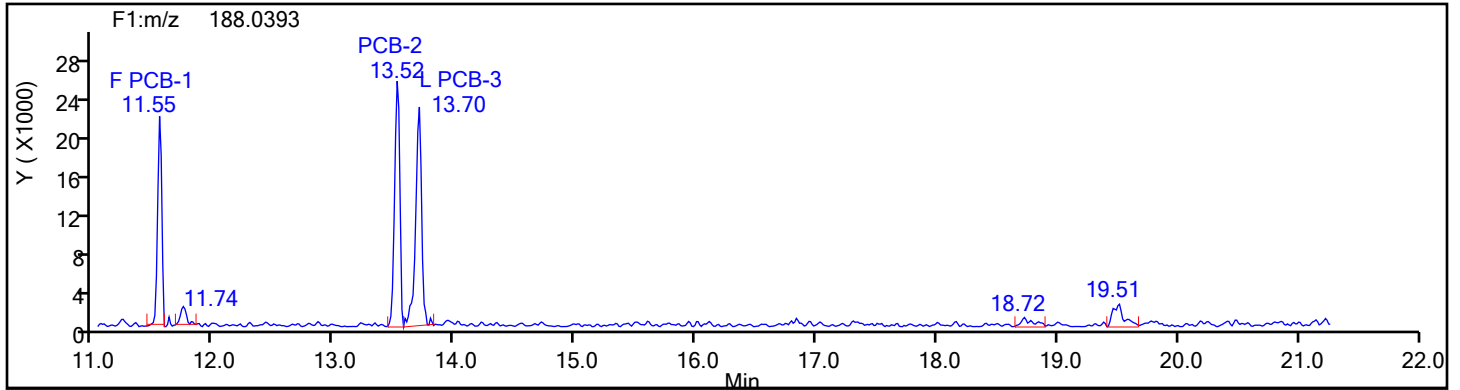
Worklist#: 87502

Sample Line#: 11

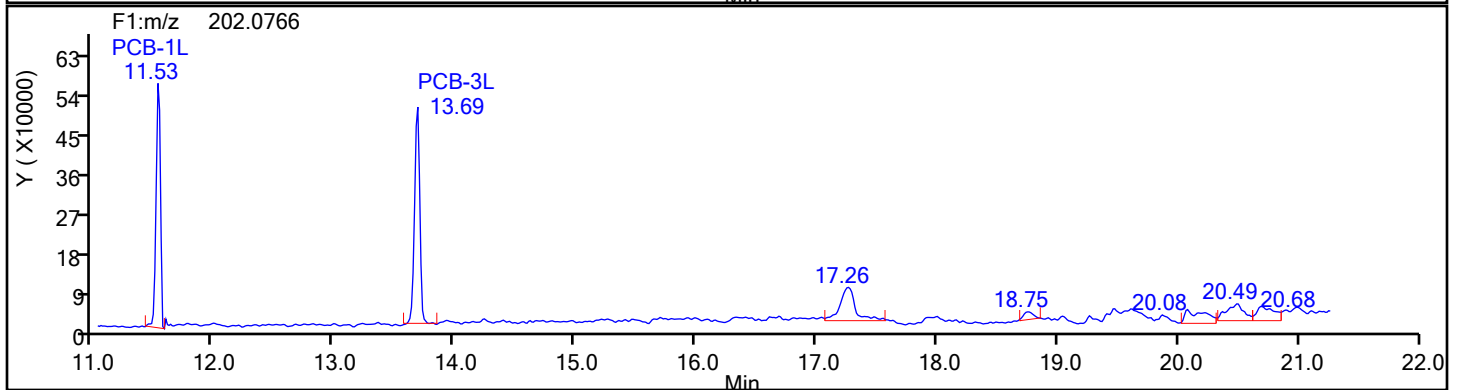
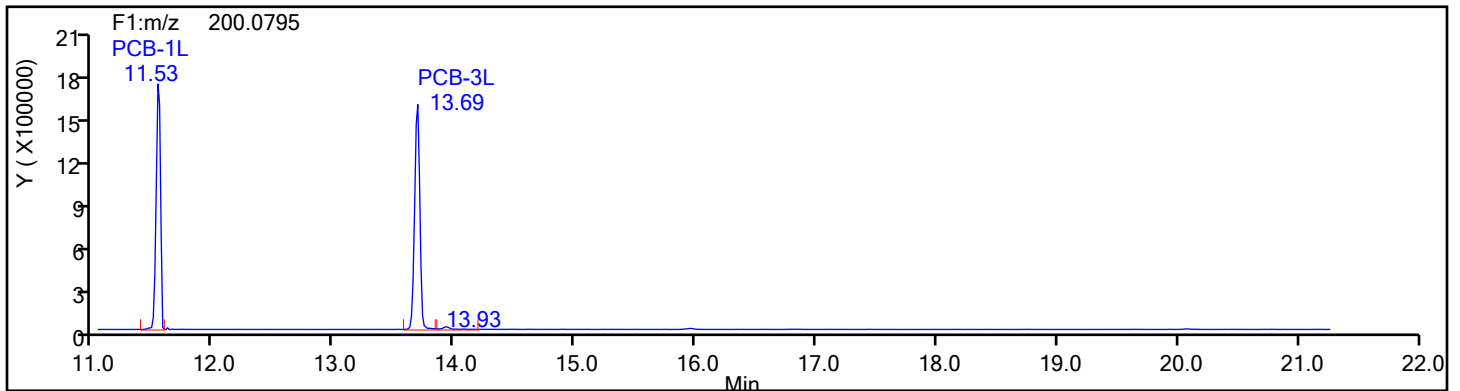
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1

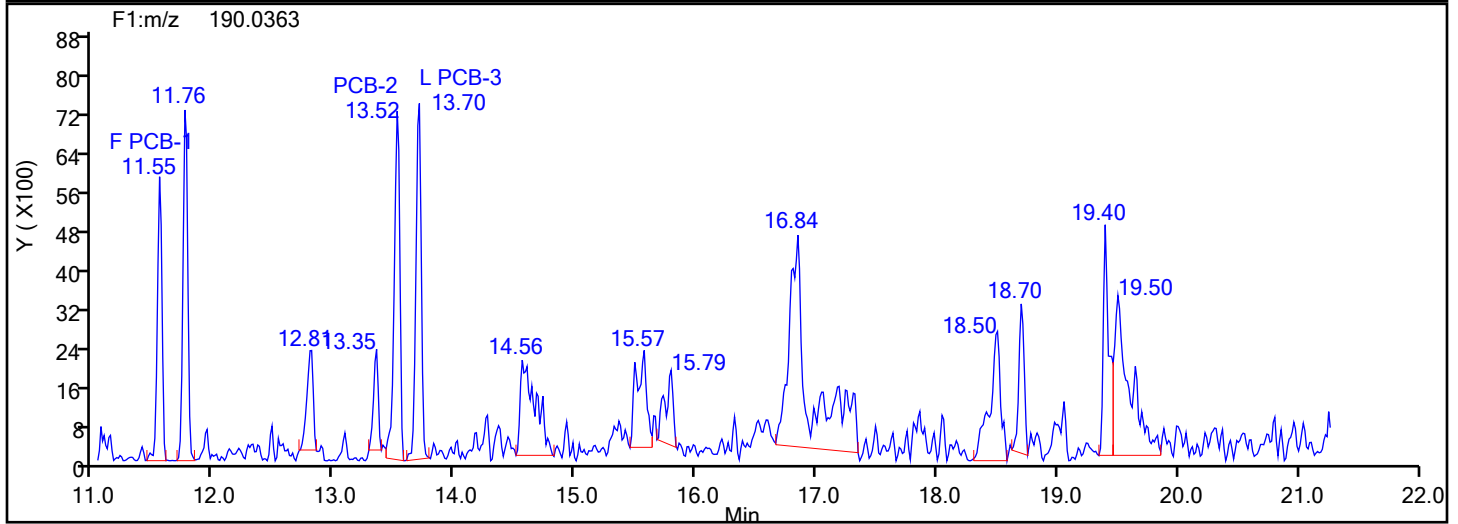
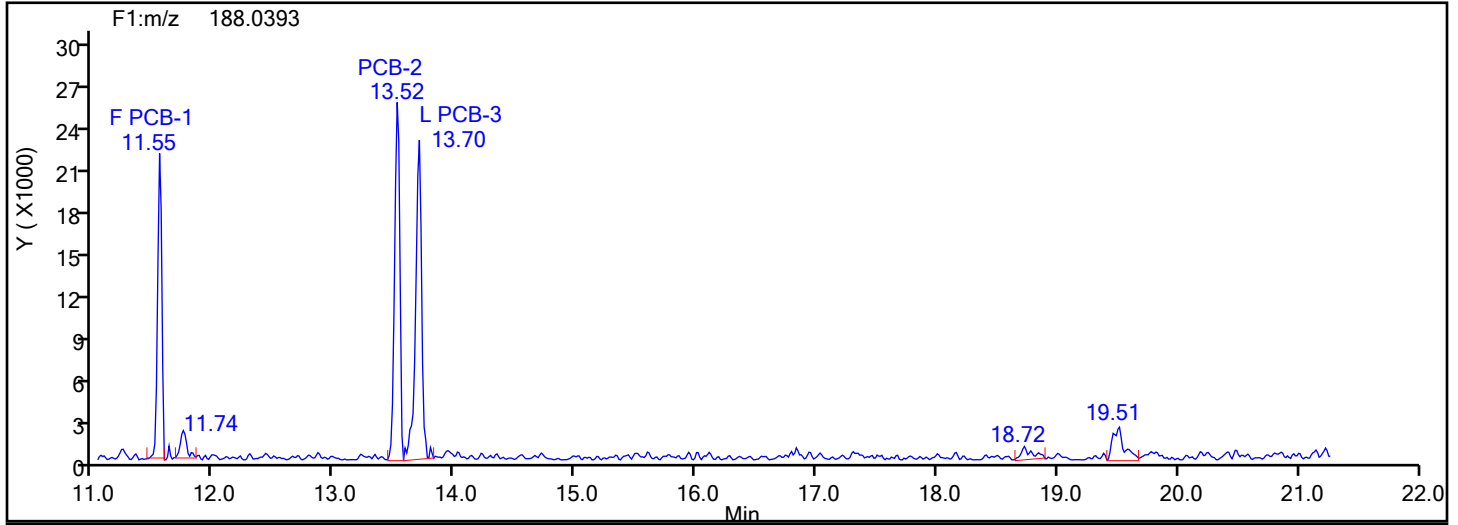


MoPCB F1 Standards

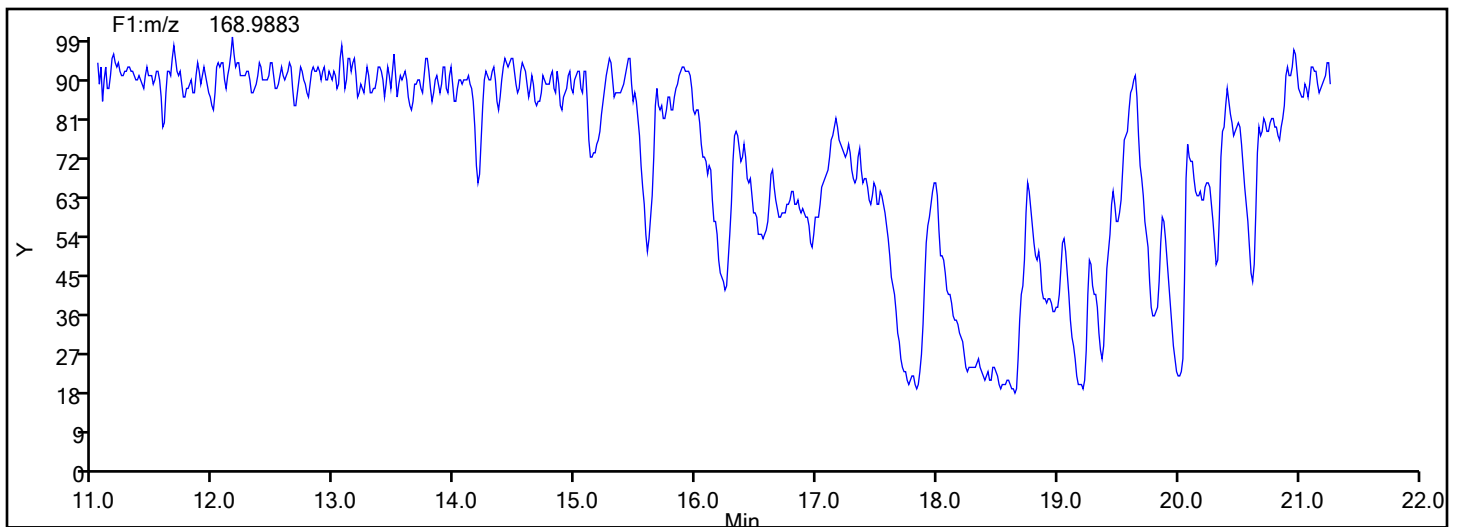


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d

Injection Date: 11-Jun-2024 18:07:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 3 COMBINED

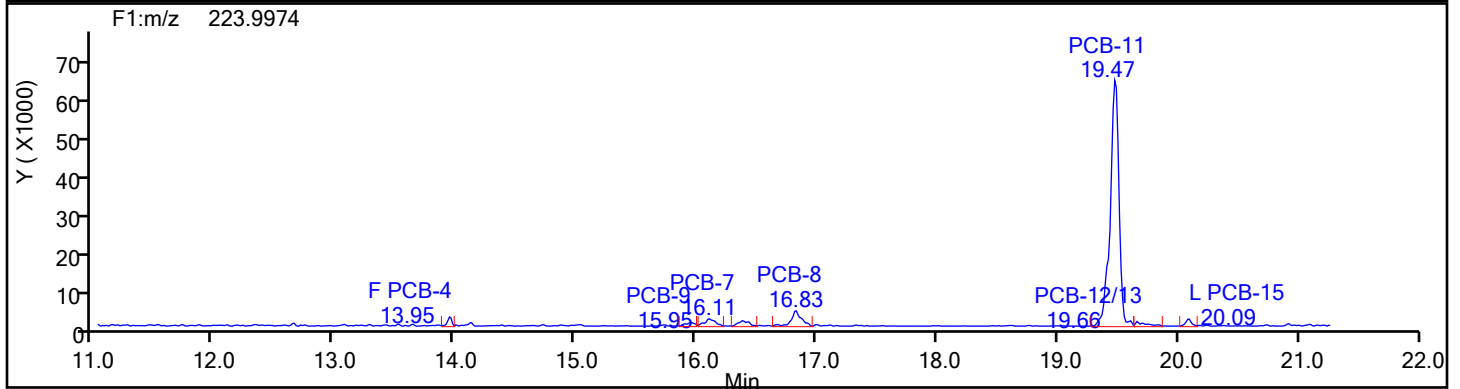
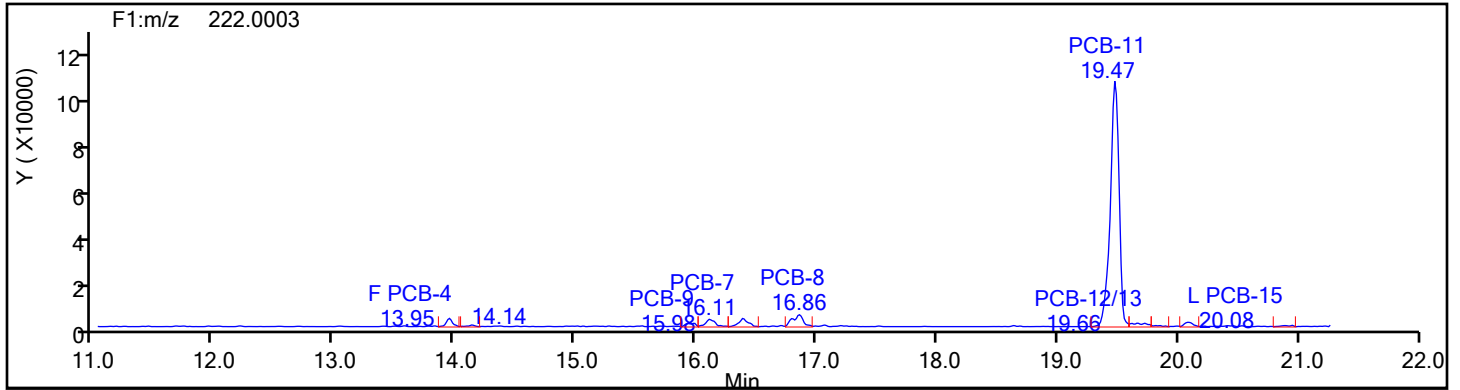
Worklist#: 87502

Sample Line#: 11

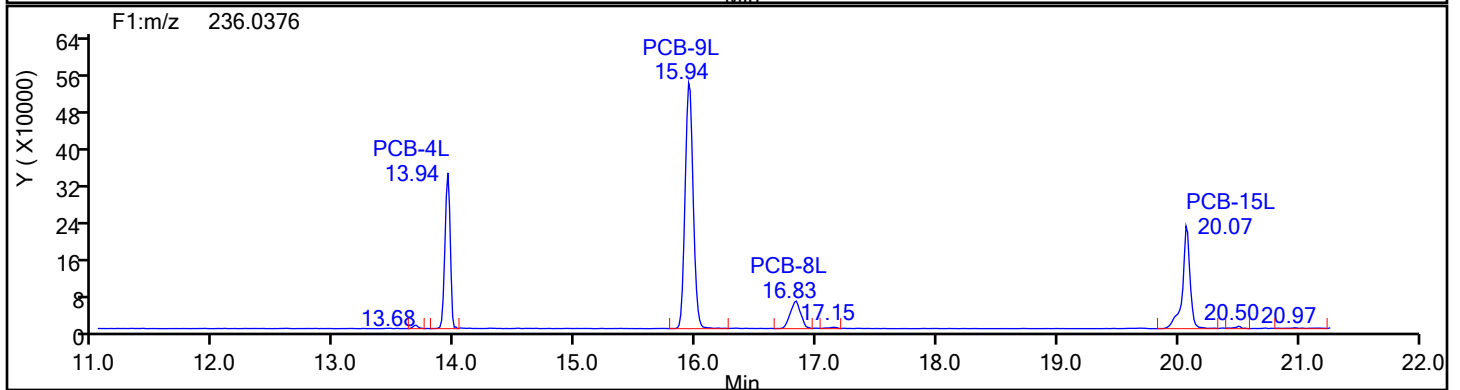
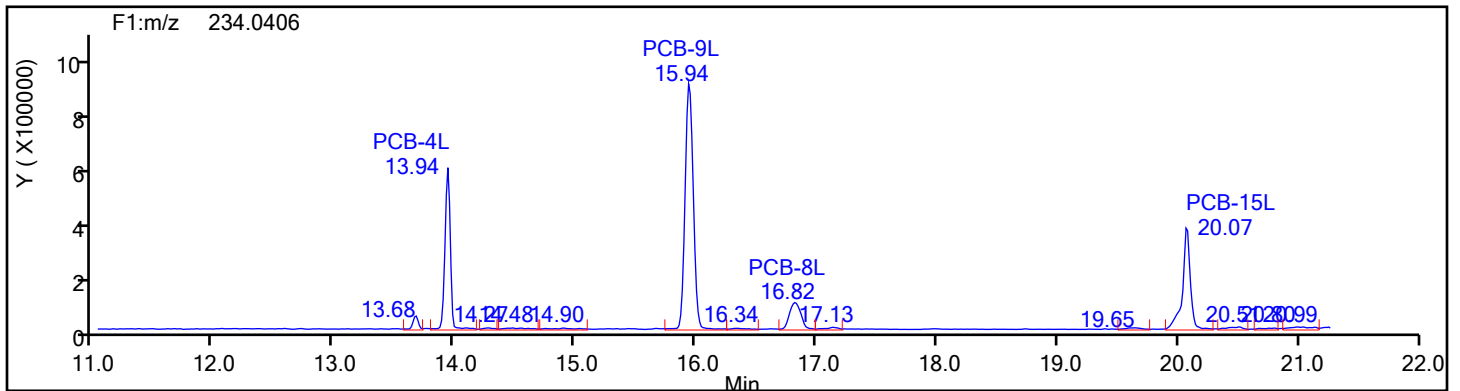
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1

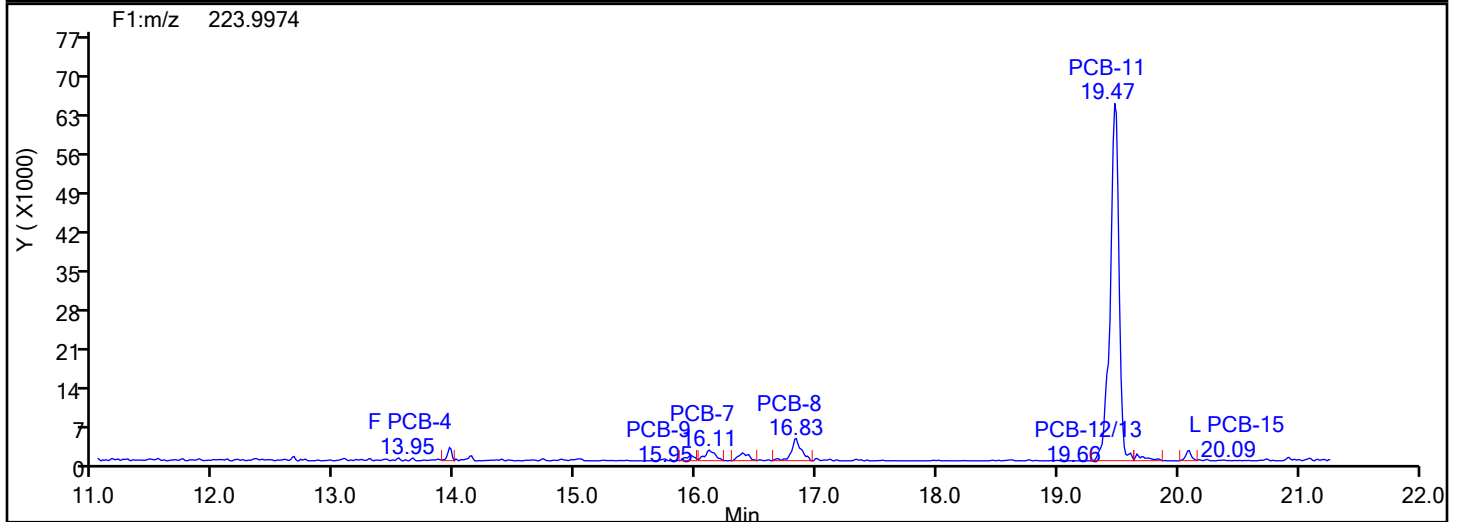
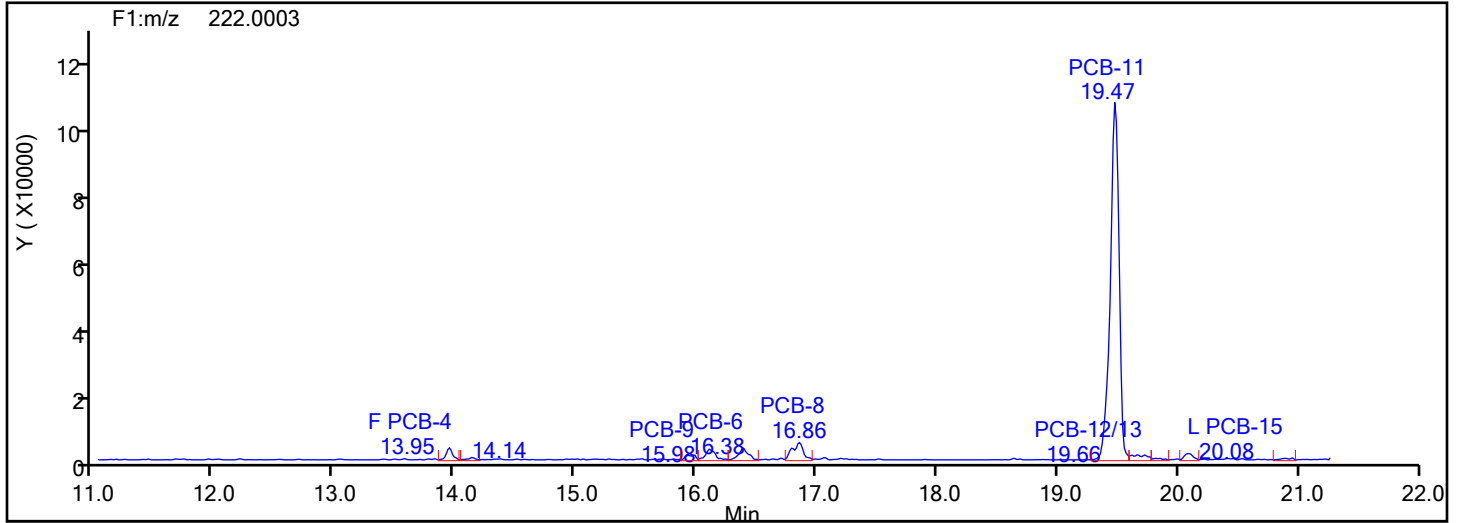


DiPCB F1 Standards

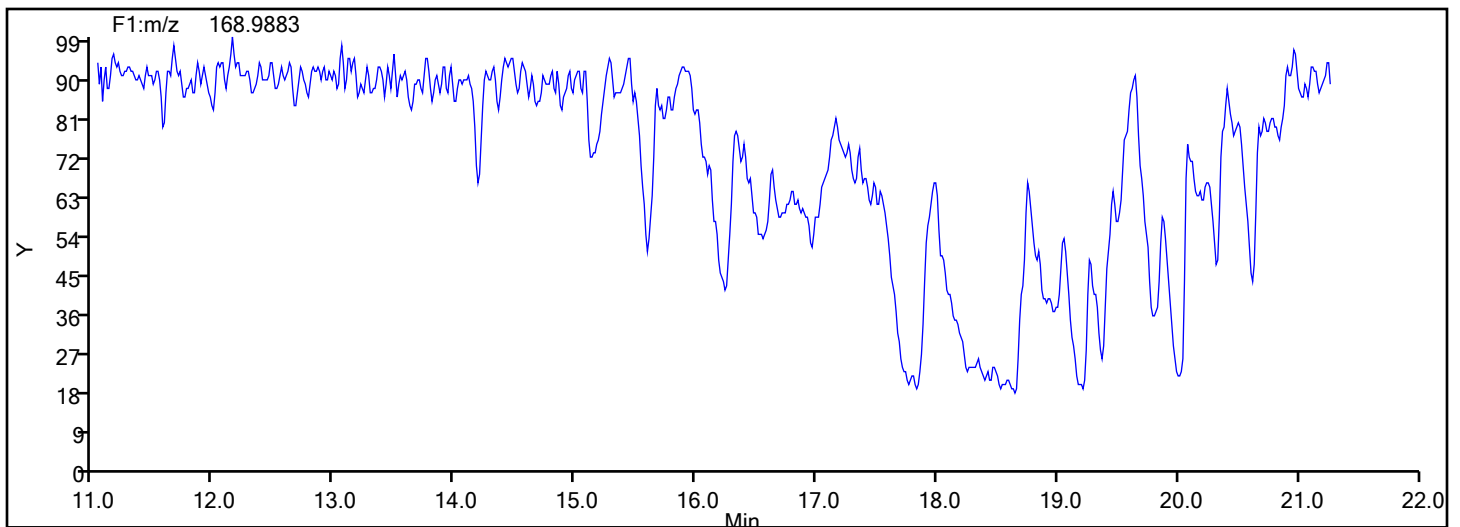


Eurofins Knoxville

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Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

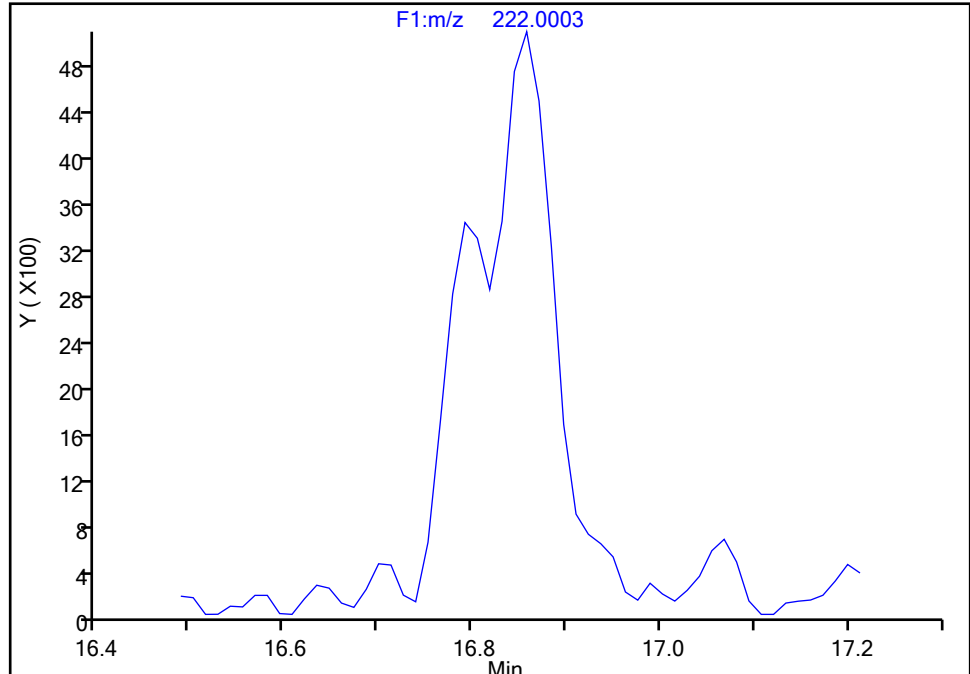
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

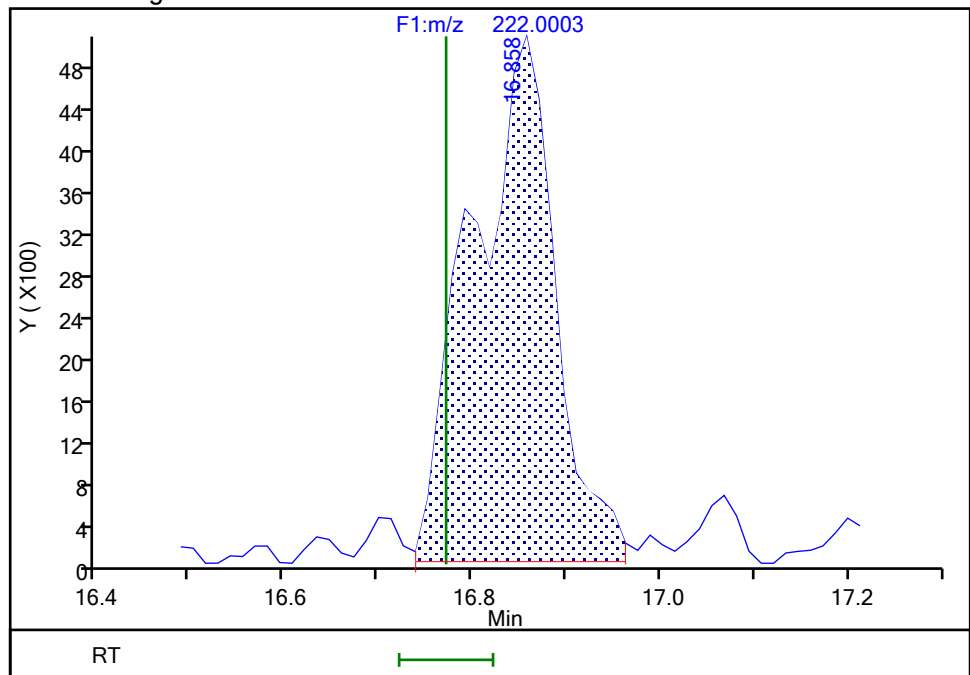
Not Detected
Expected RT: 16.77

Processing Integration Results



RT: 16.86
Area: 30921
Amount: 1.271213
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 19:26:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

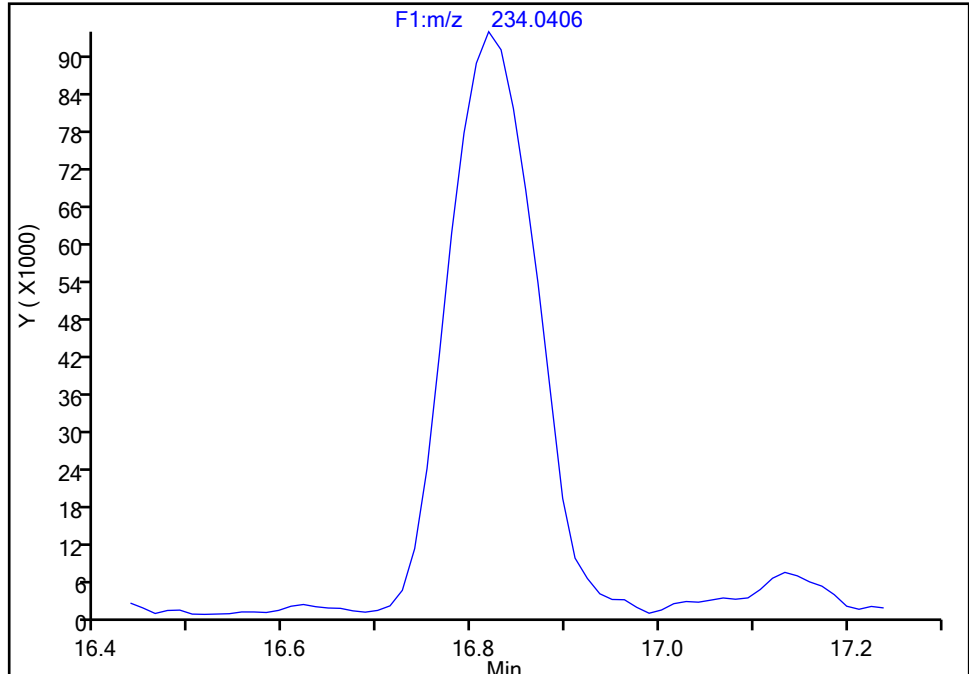
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

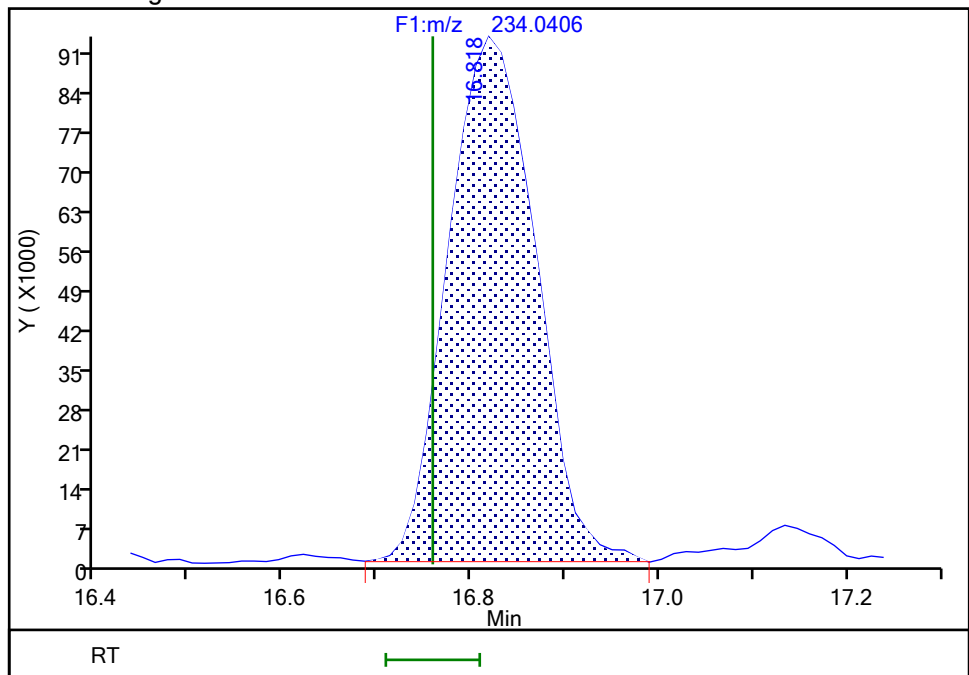
Not Detected
Expected RT: 16.76

Processing Integration Results



RT: 16.82
Area: 599333
Amount: 30.103897
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 19:25:26 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

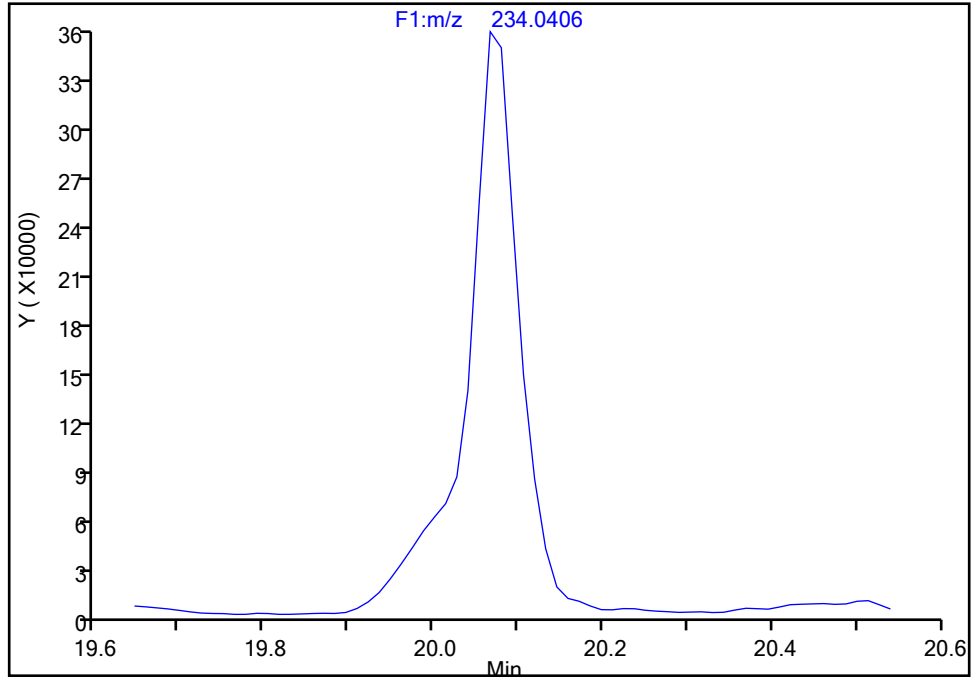
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-15L, CAS: 208263-67-6

Signal: 1

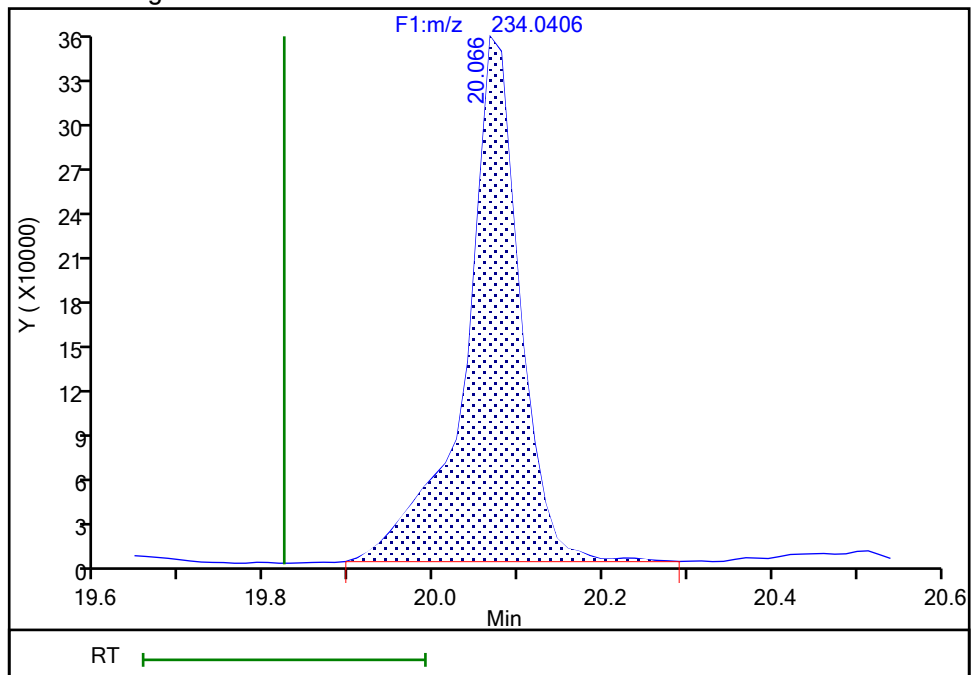
Not Detected
Expected RT: 19.82

Processing Integration Results



RT: 20.07
Area: 1557615
Amount: 36.082200
Amount Units: pg/ul

Manual Integration Results



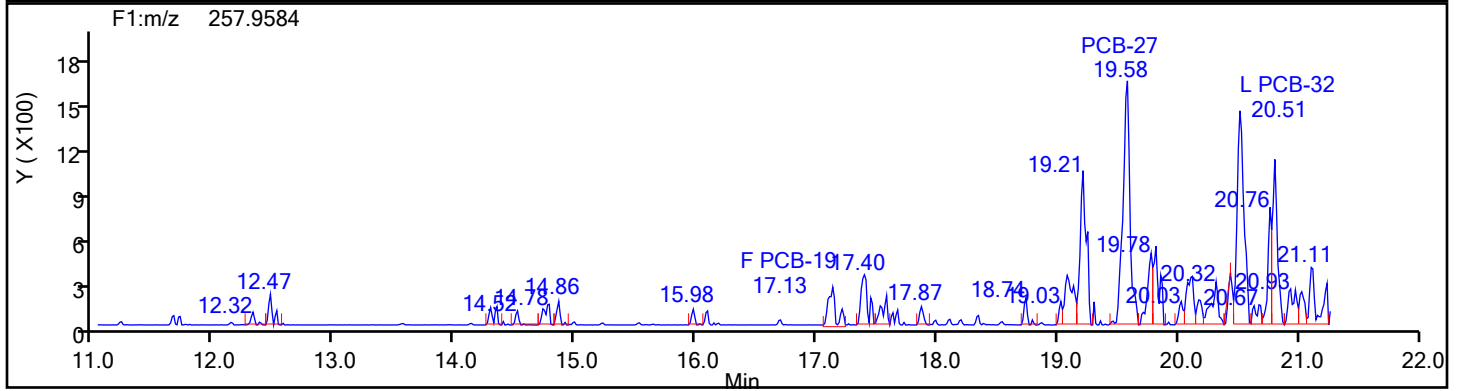
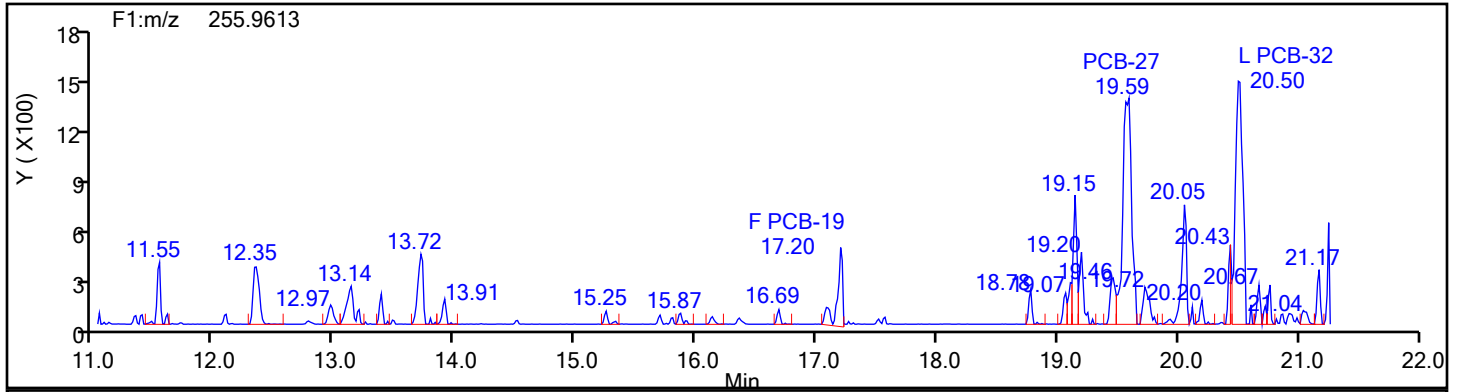
Reviewer: Q9DB, 11-Jun-2024 19:25:32 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

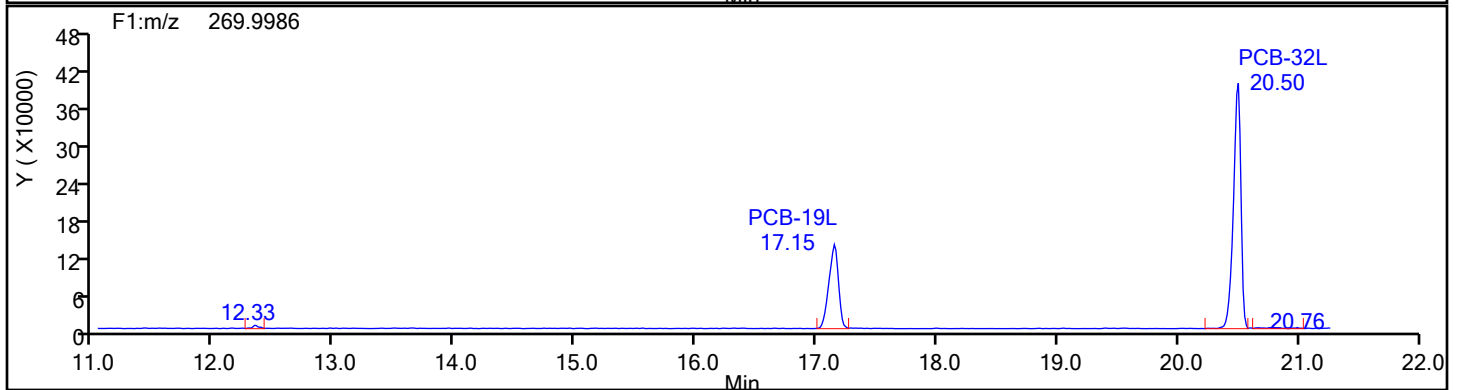
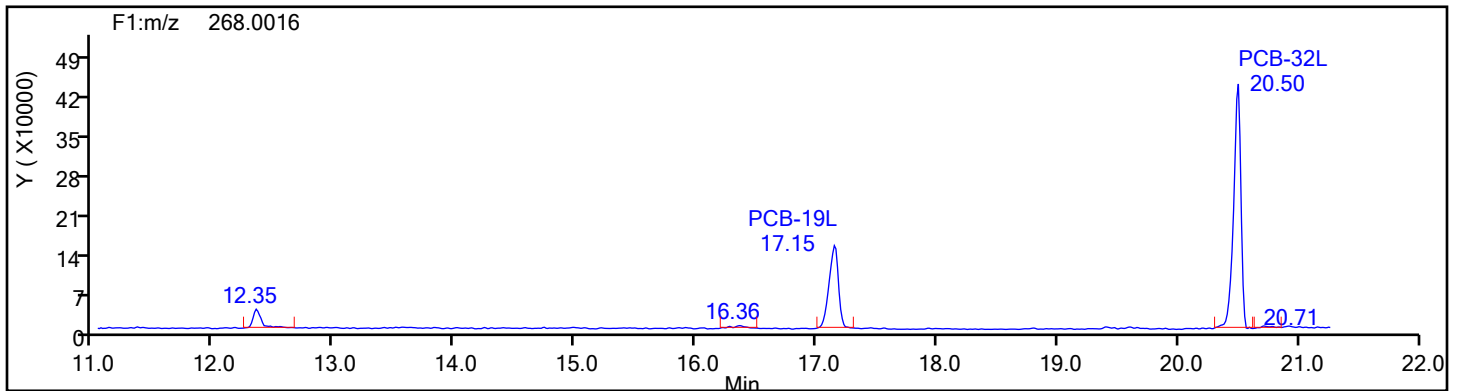
Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1

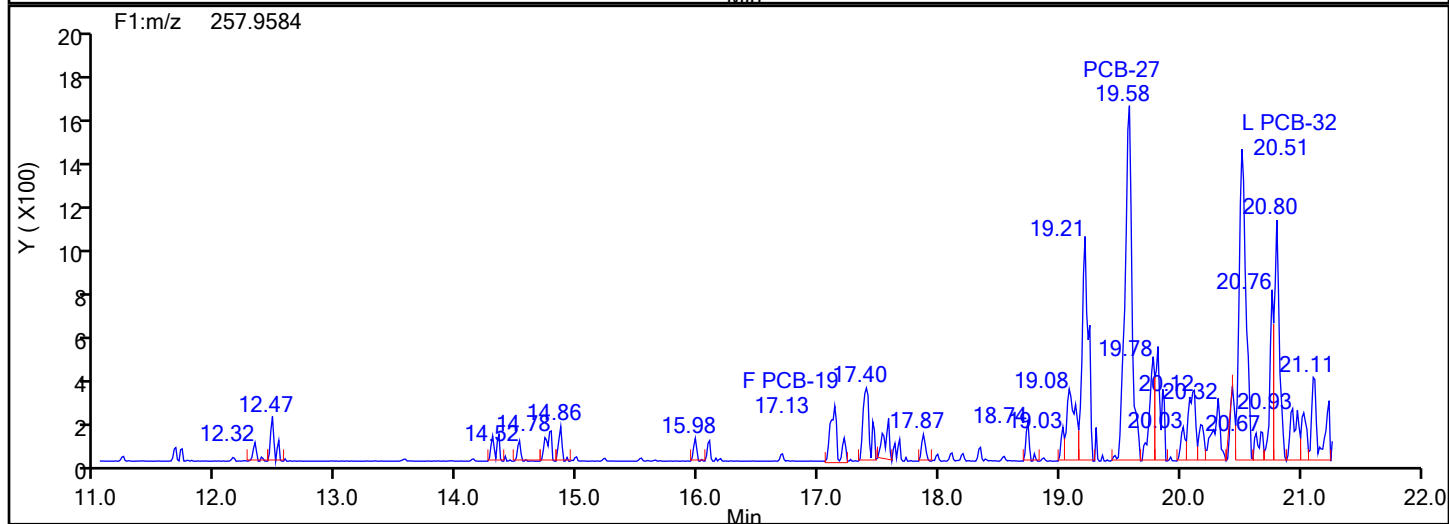
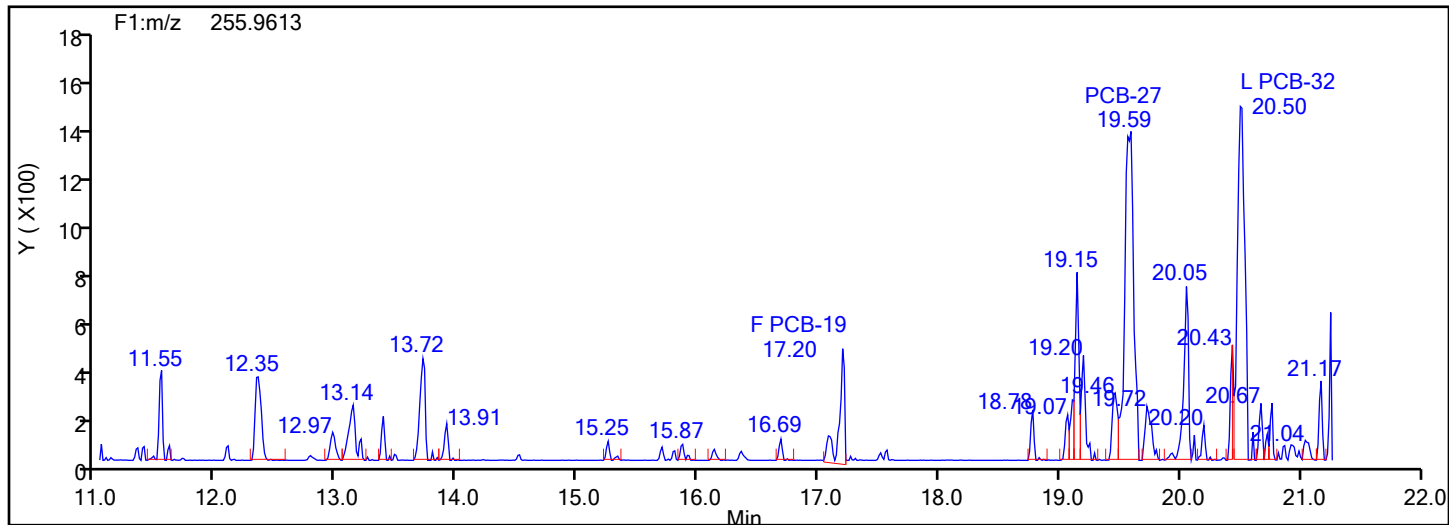


TriPCB F1 Standards

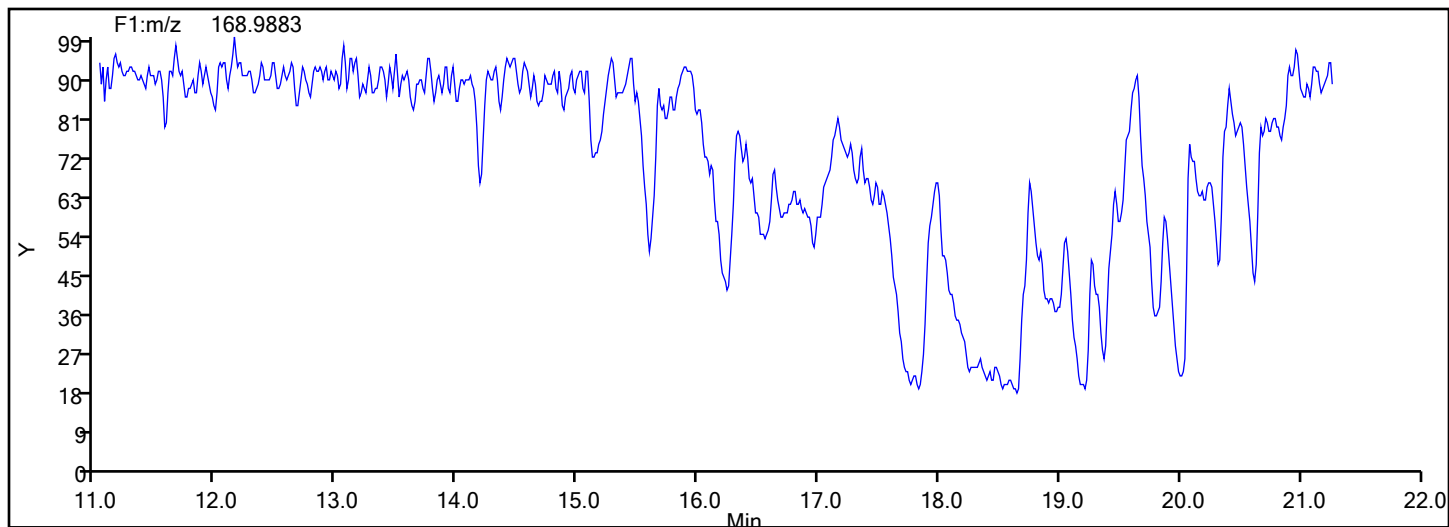


Eurofins Knoxville

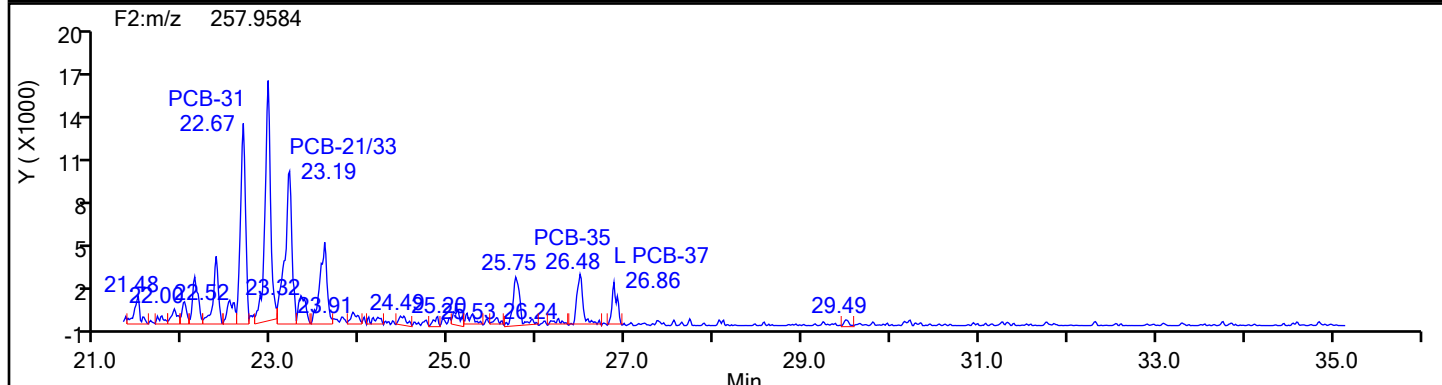
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Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



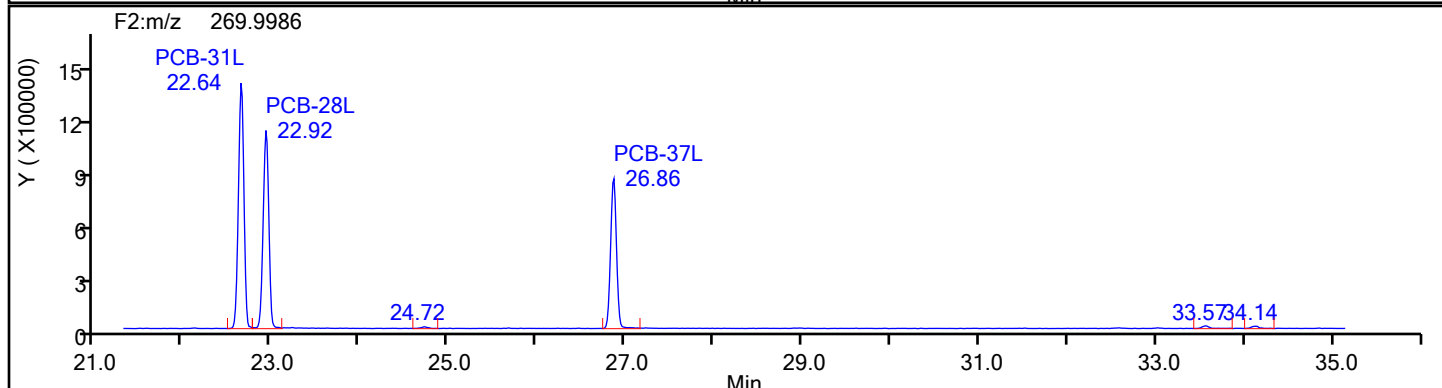
TriPCB F1 Lock Mass



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d		
Injection Date:	11-Jun-2024 18:07:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23-NO.3 BOILER-RUN 3 COMBINED		
Worklist#:	87502	Sample Line#:	11
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TriPCB F2			

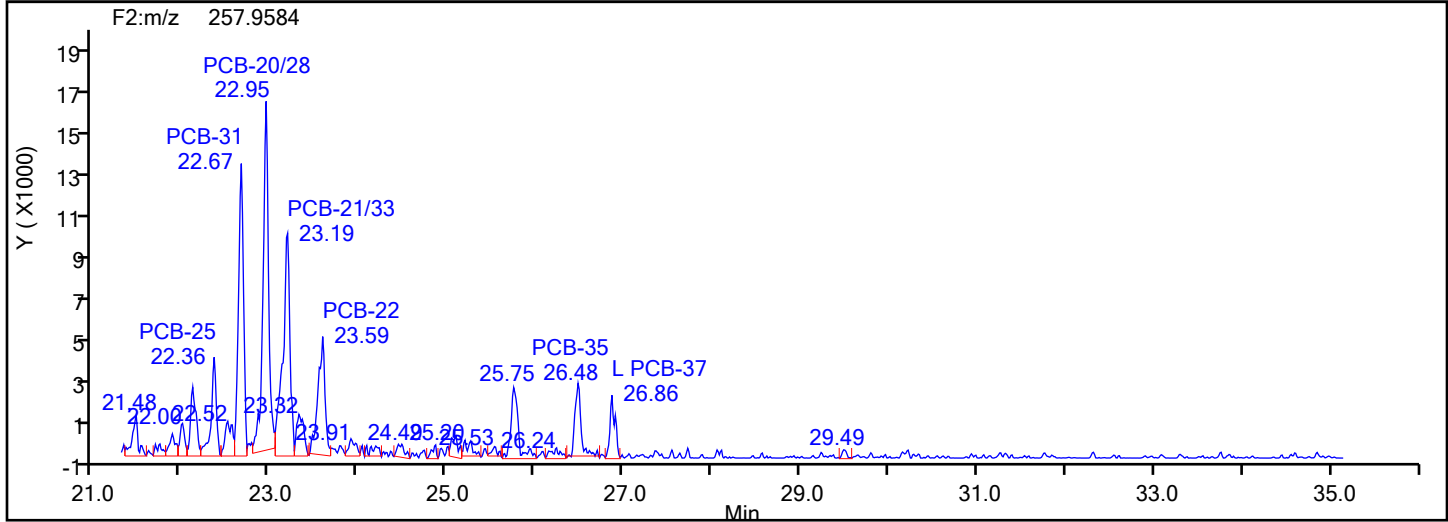
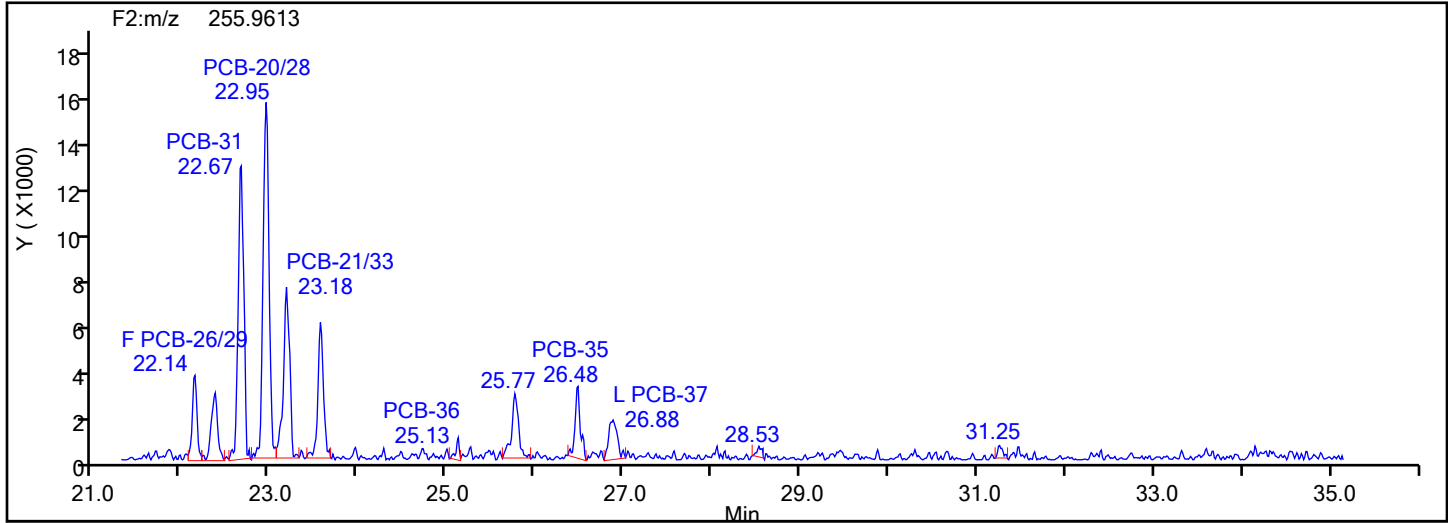


Chromatogram showing peaks for PCB-31L, PCB-28L, and PCB-37L. The y-axis is labeled Y (X100000) and the x-axis is labeled Min. Peaks are labeled with their retention times: 22.64, 22.92, 26.86, 24.70, 28.94, 32.57, 33.02, 33.58, 34.11, and 34.85.

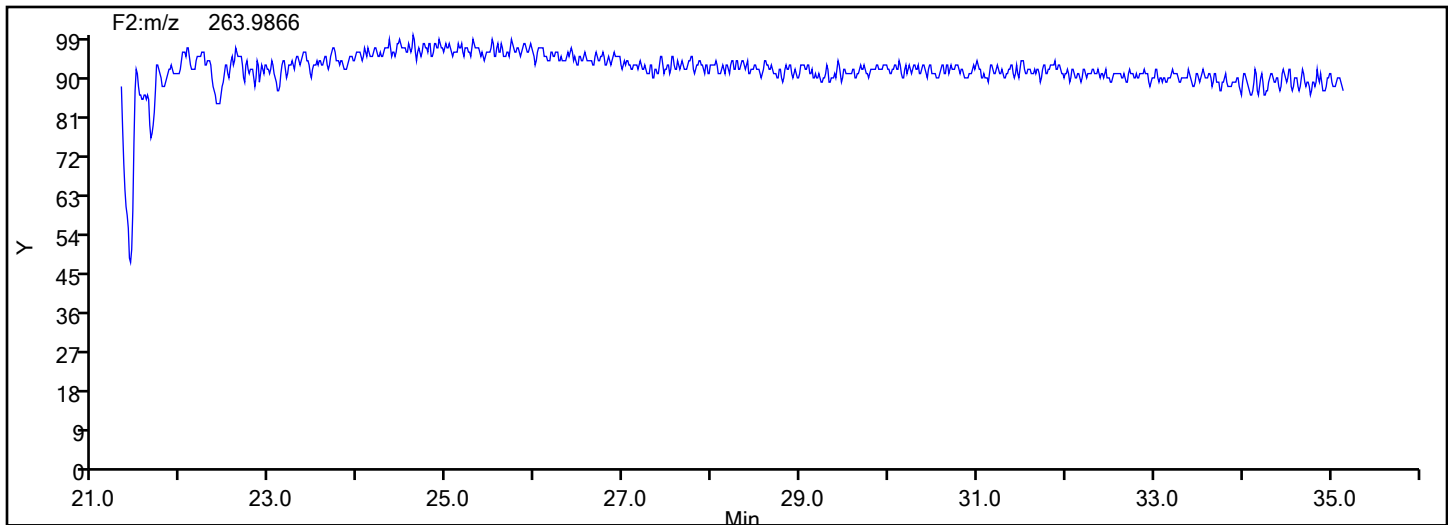


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-20/28, CAS: STL01799

Signal: 3

Processing Integration Results

RT: 22.95
Area: 195372
Amount: 2.077953
Amount Units: pg/ul

Manual Integration Results

RT: 22.95
Area: 141273
Amount: 1.502563
Amount Units: pg/ul

Reviewer: Q9DB, 11-Jun-2024 19:29:15 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

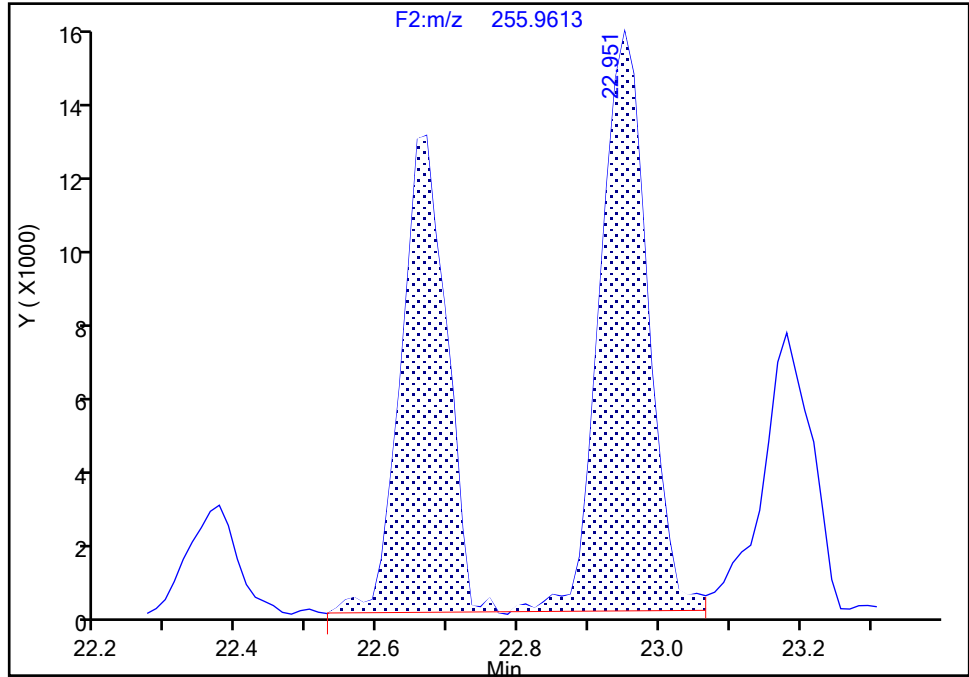
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-20/28, CAS: STL01799

Signal: 1

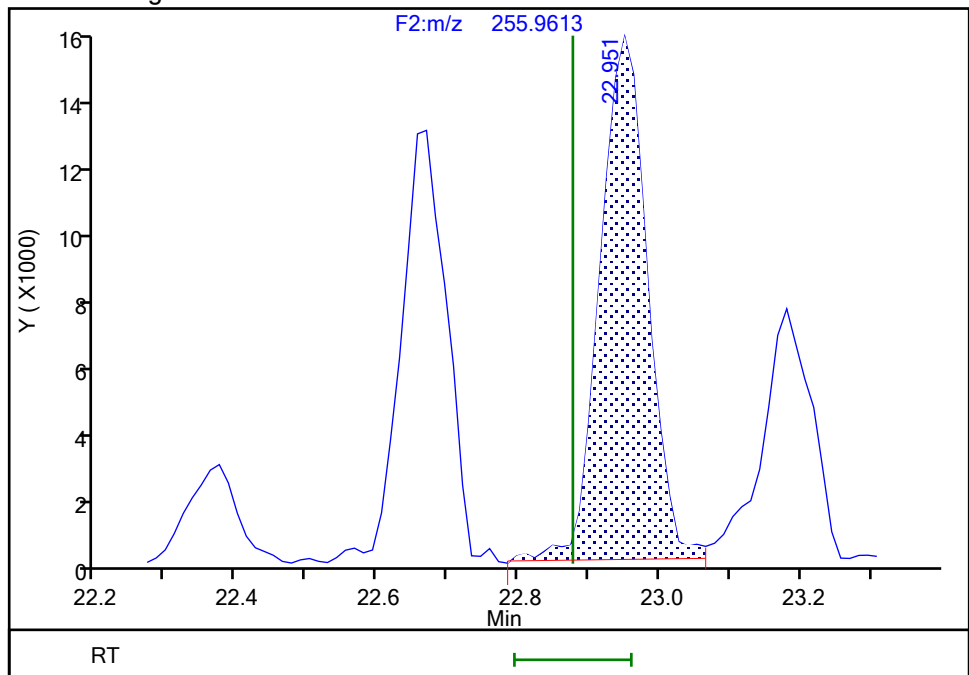
RT: 22.95
Area: 126997
Amount: 2.077953
Amount Units: pg/ul

Processing Integration Results



RT: 22.95
Area: 71333
Amount: 1.502563
Amount Units: pg/ul

Manual Integration Results



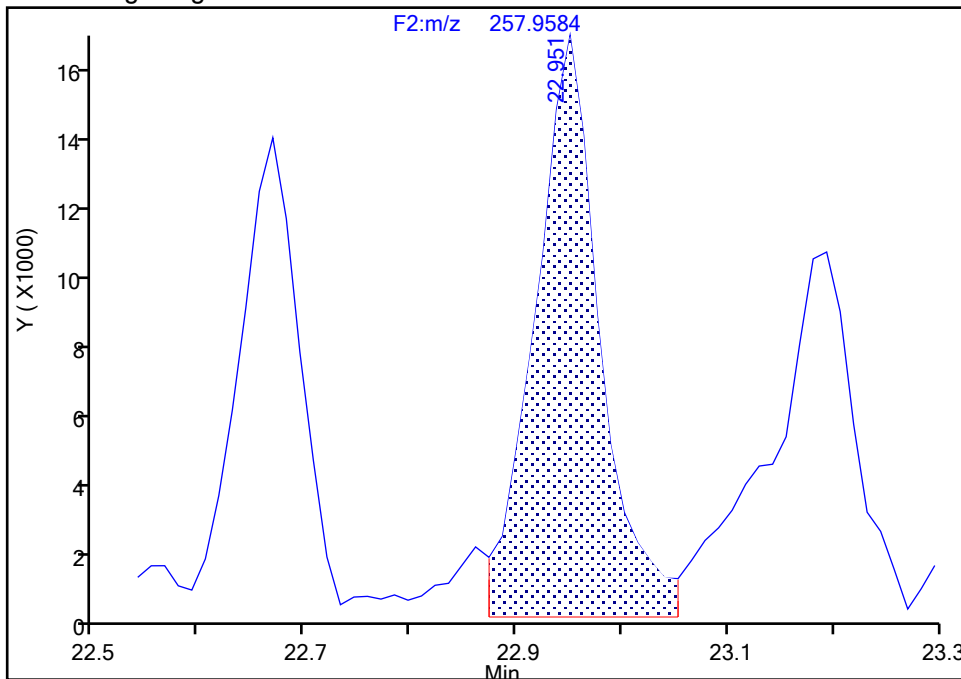
Reviewer: Q9DB, 11-Jun-2024 19:29:56 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

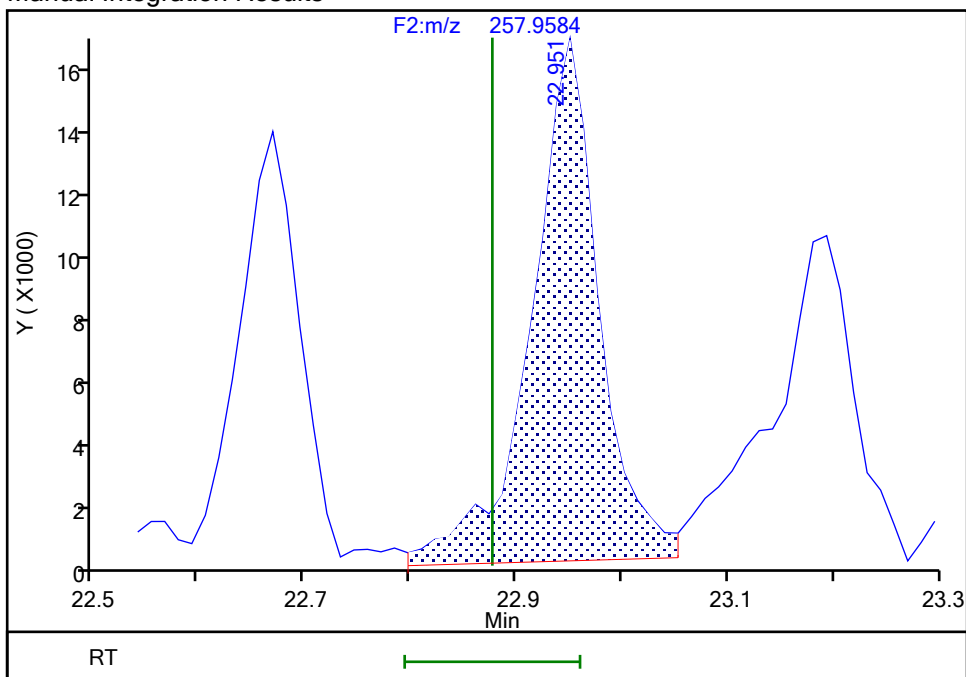
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Injection Date:	11-Jun-2024 18:07:00	Instrument ID:	D2D		
Lims ID:	140-36689-A-3-C	Lab Sample ID:	140-36689-3		
Client ID:	M23-NO.3 BOILER-RUN 3 COMBINED				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl (0.25 mm)	Detector	F2(21.81 :35.54)		

Signal: 2

RT: 22.95
Area: 68375
Amount: 2.077953
Amount Units: pg/ul



RT: 22.95
Area: 69940
Amount: 1.502563
Amount Units: pg/ul

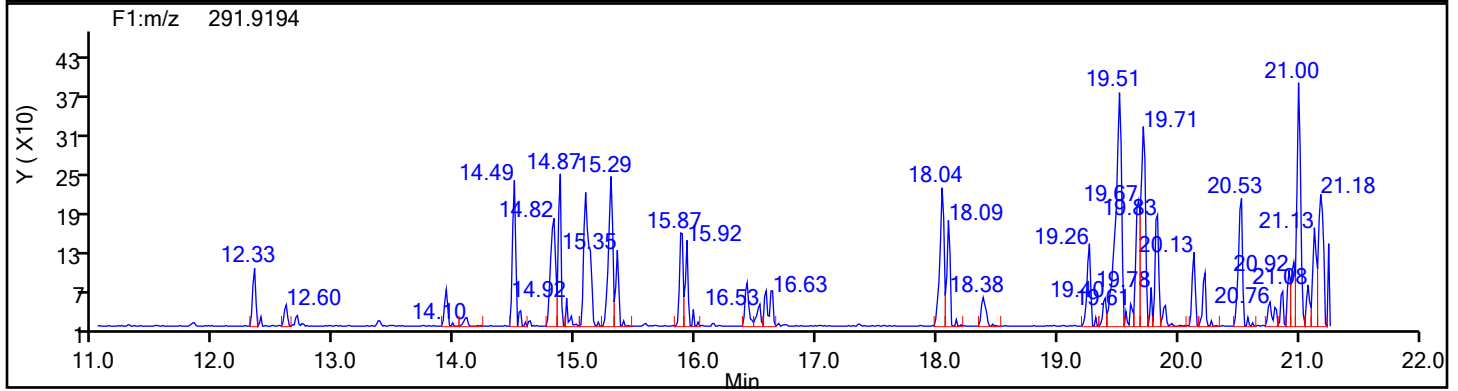
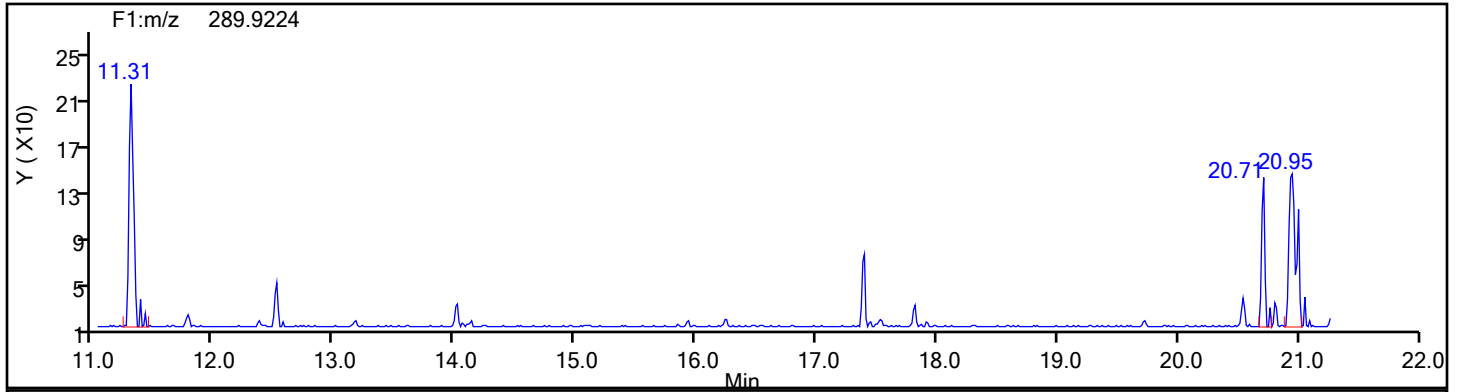


Audit Action: Manually Integrated

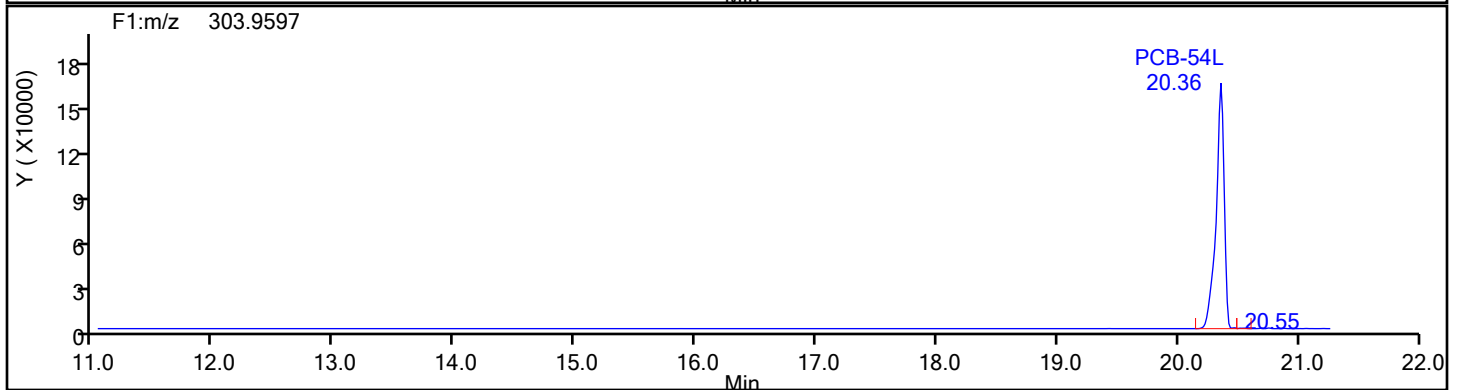
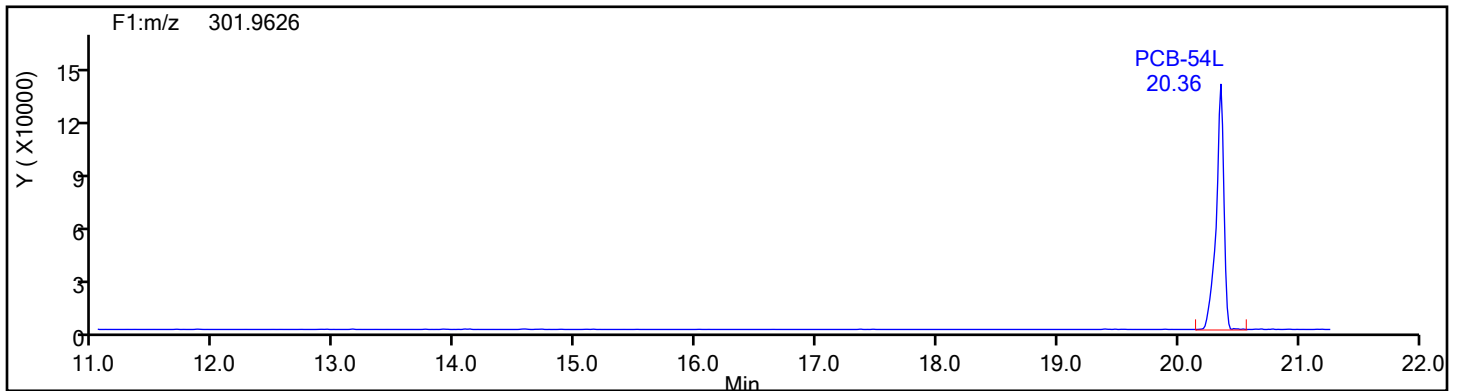
Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

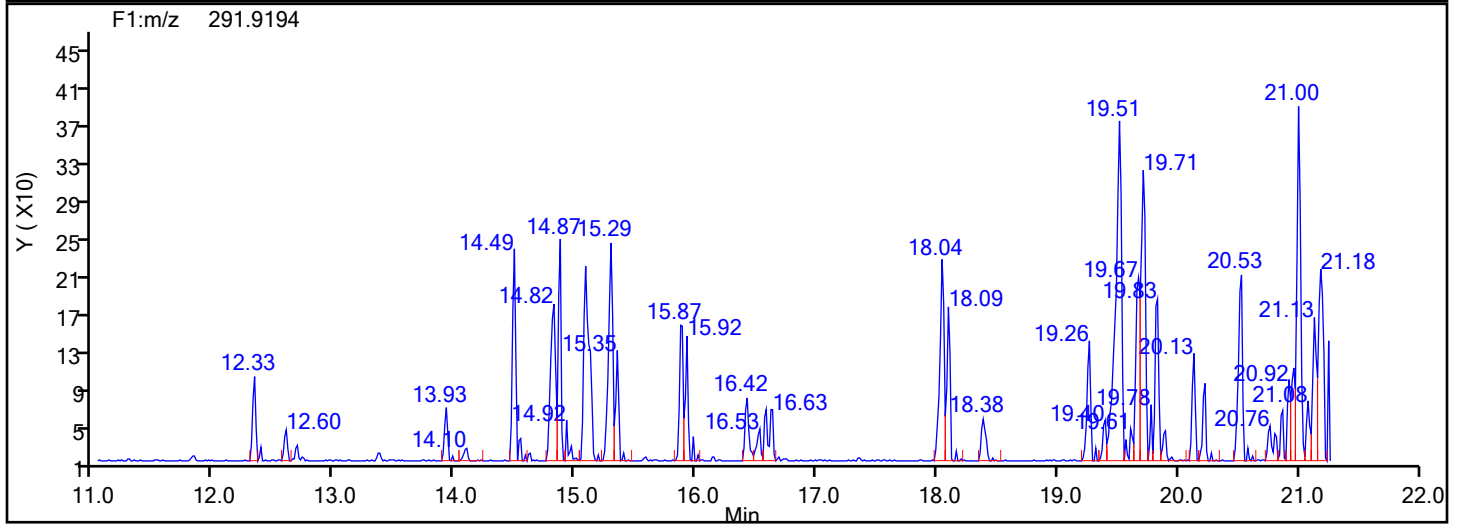
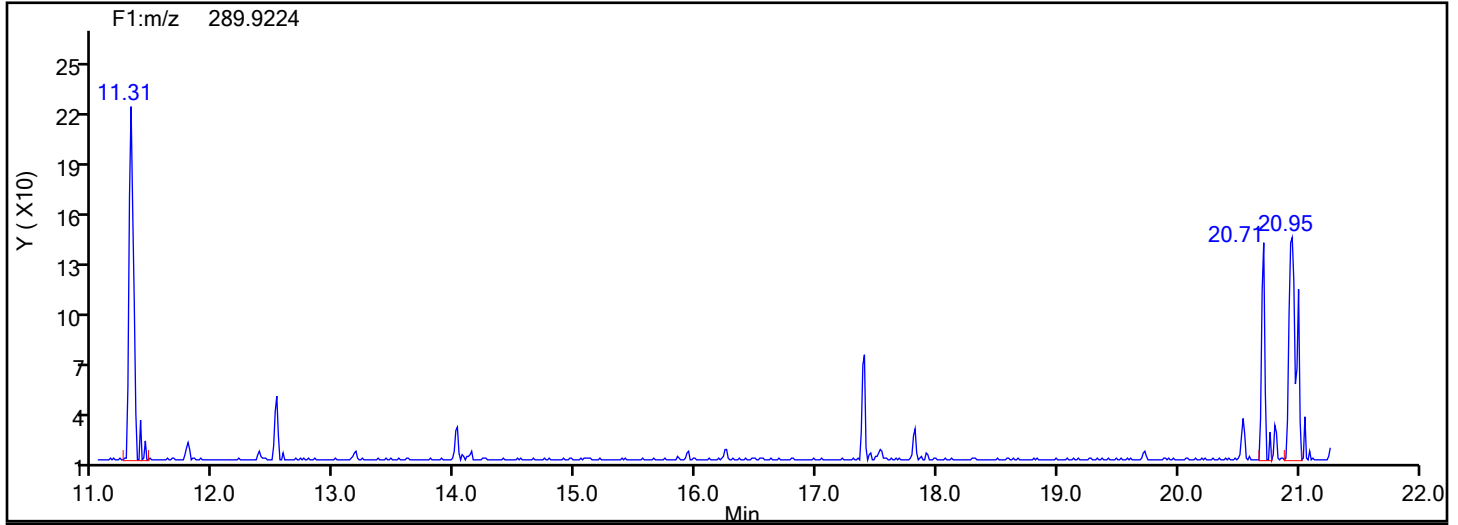


TePCB F1 Standards

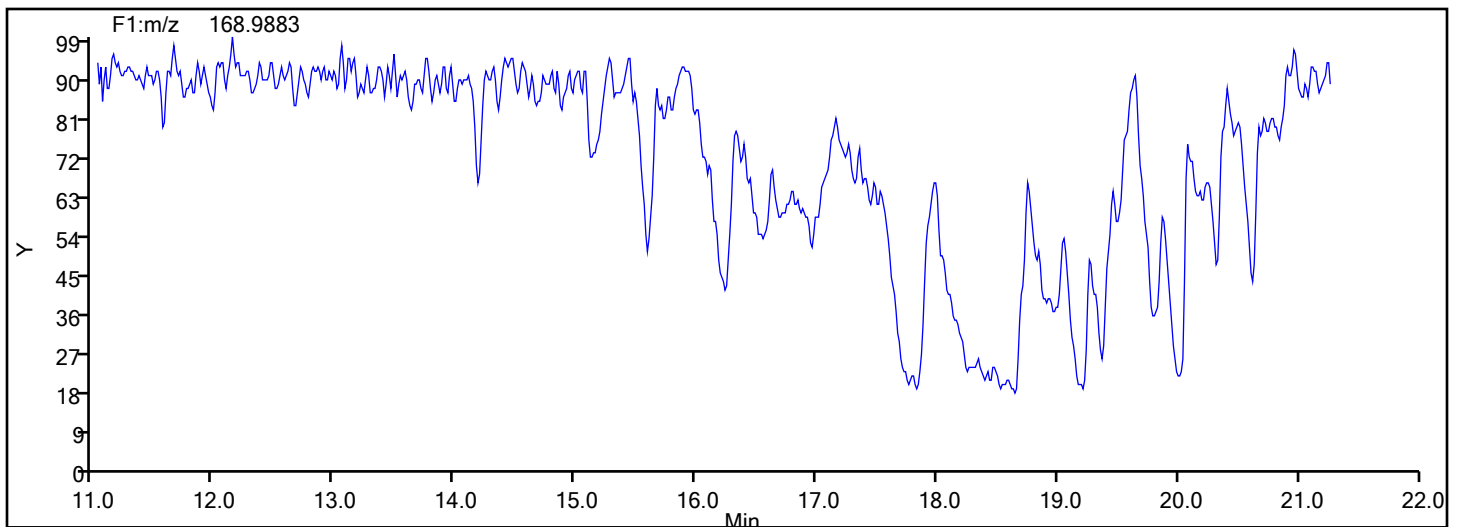


Eurofins Knoxville

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Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

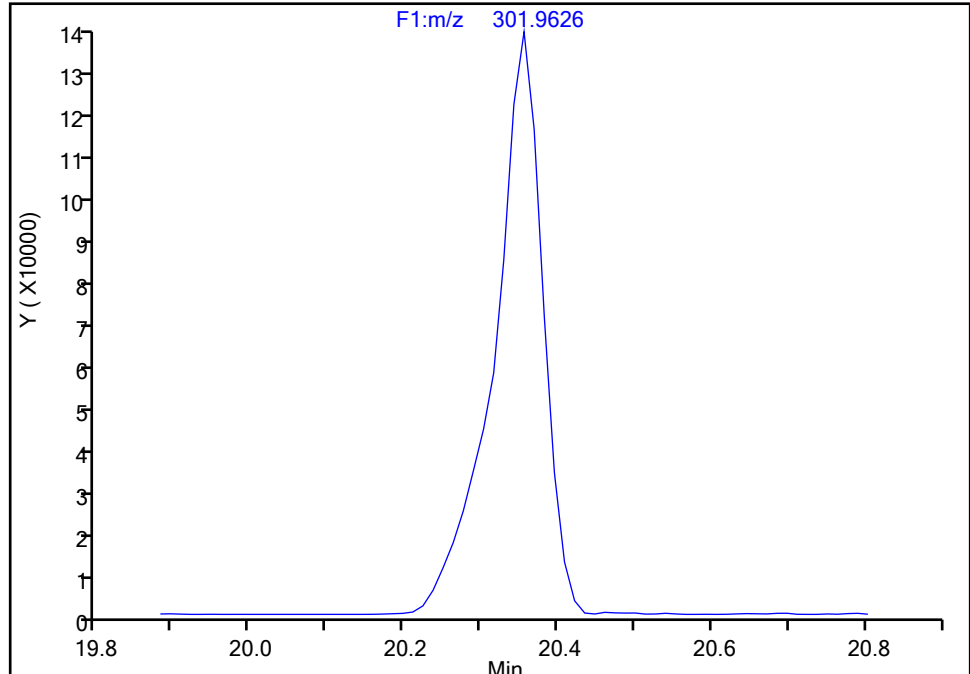
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 1

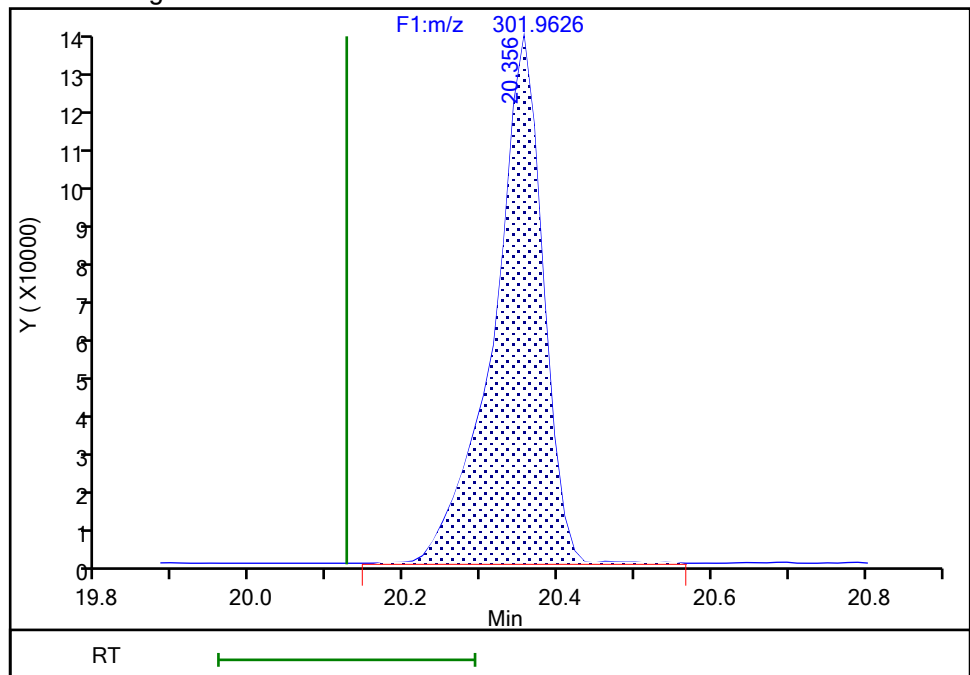
Not Detected
Expected RT: 20.12

Processing Integration Results



RT: 20.36
Area: 596427
Amount: 67.703382
Amount Units: pg/ul

Manual Integration Results



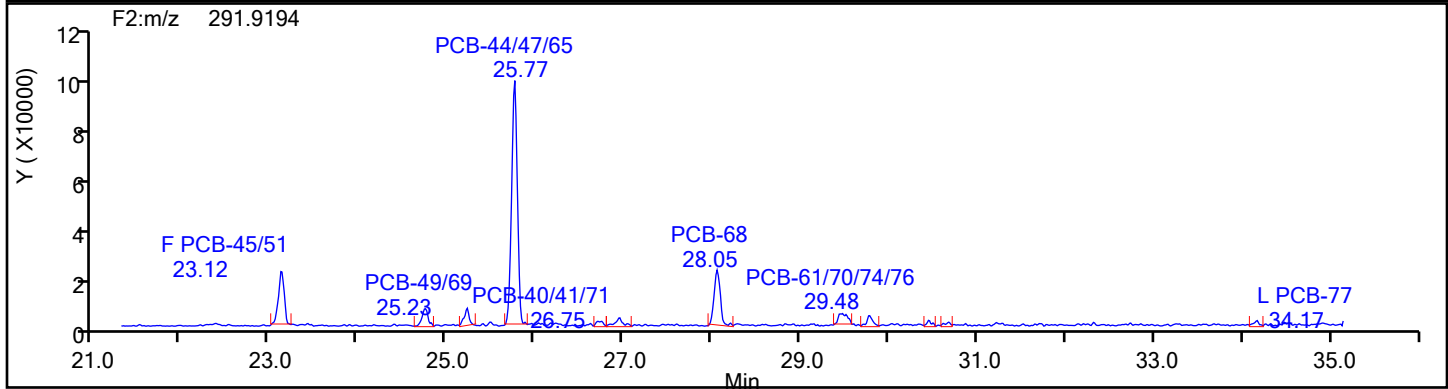
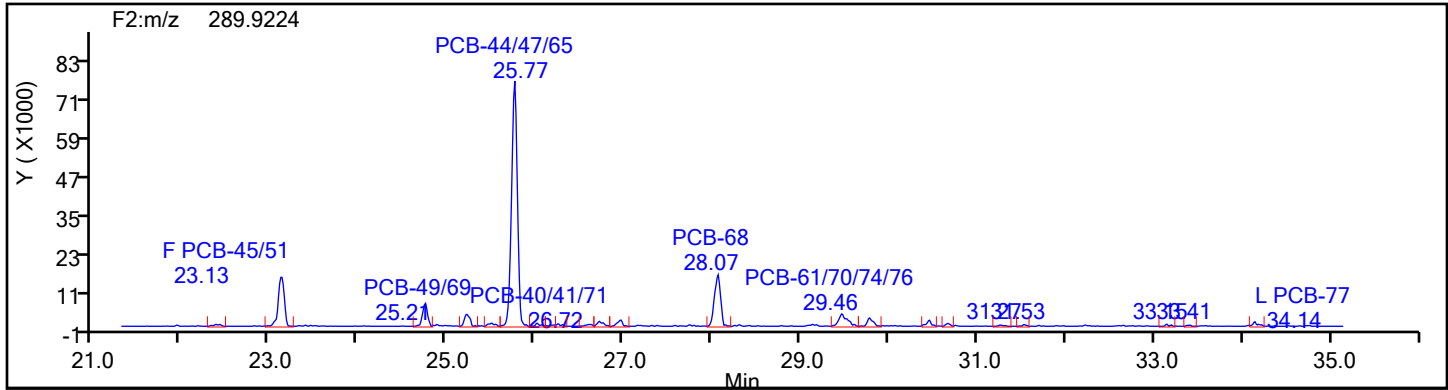
Reviewer: Q9DB, 11-Jun-2024 19:31:01 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

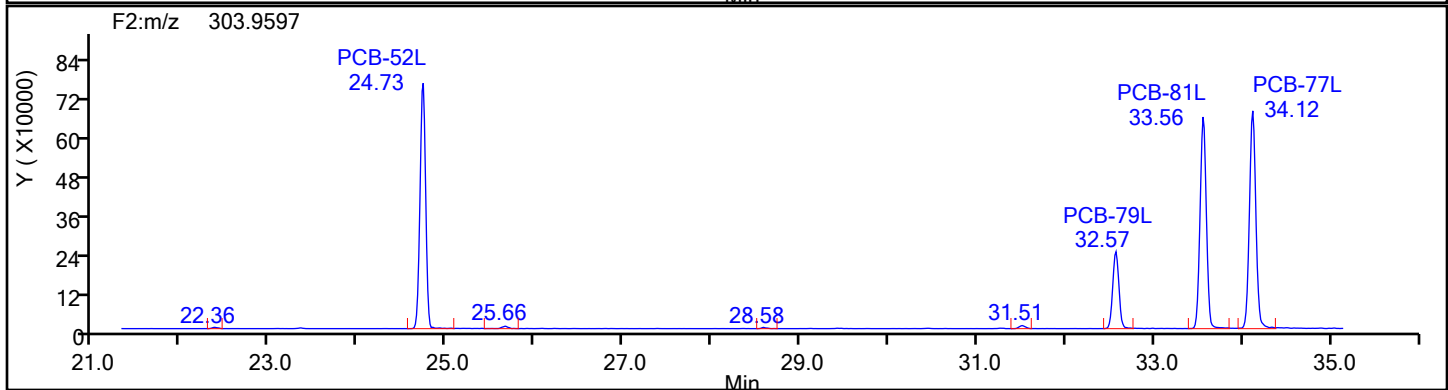
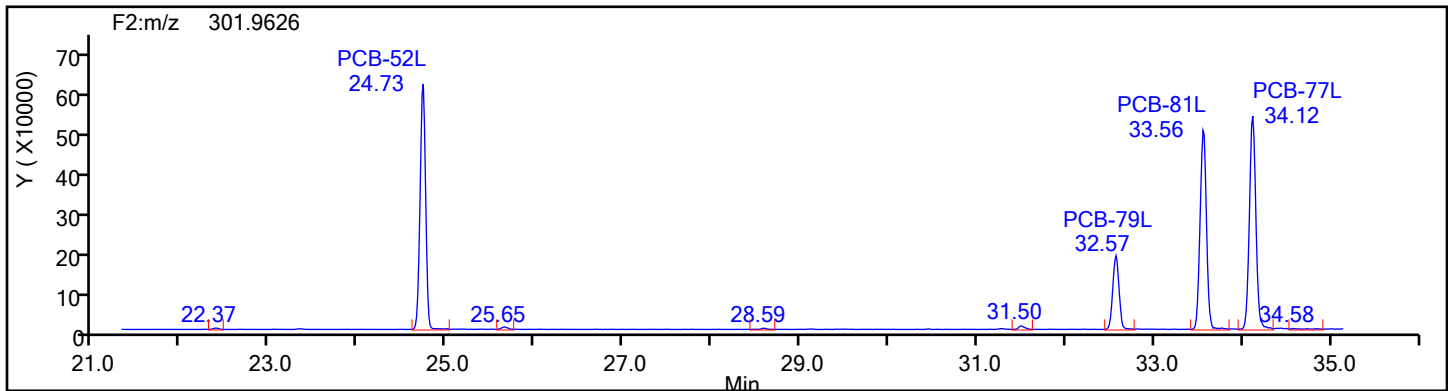
Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

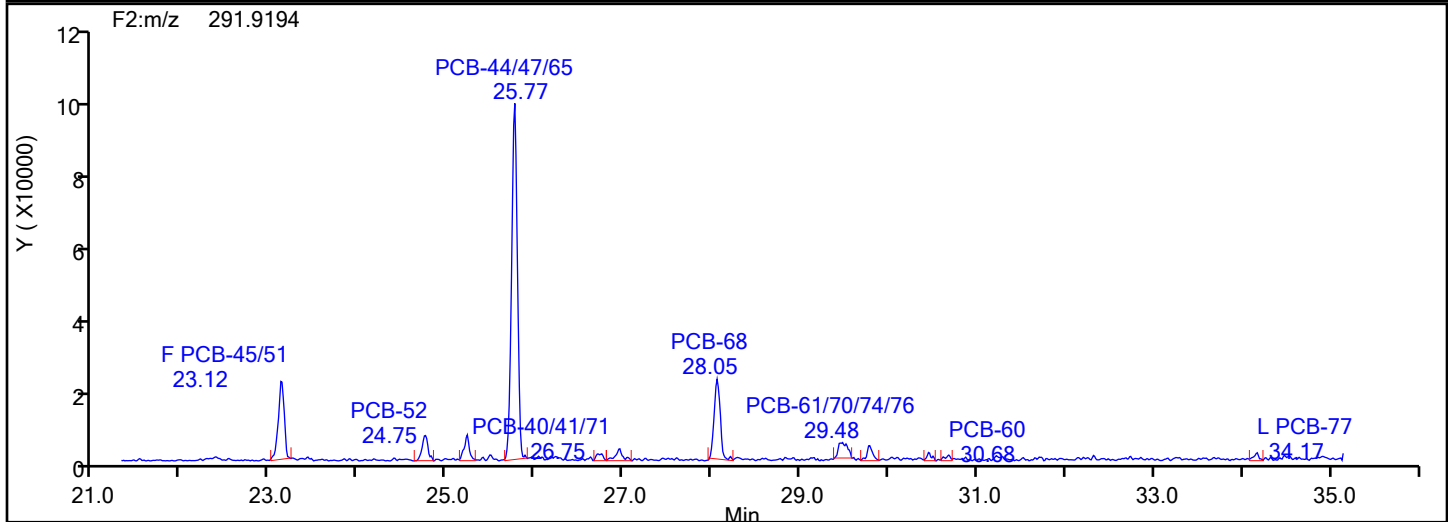
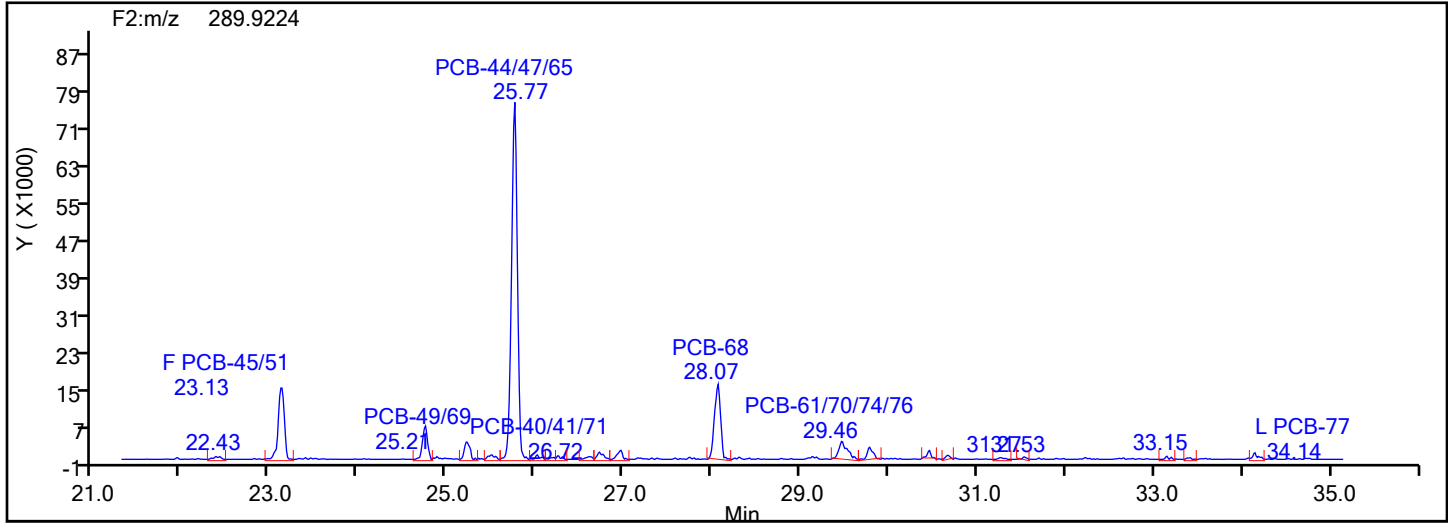


TePCB F2 Standards

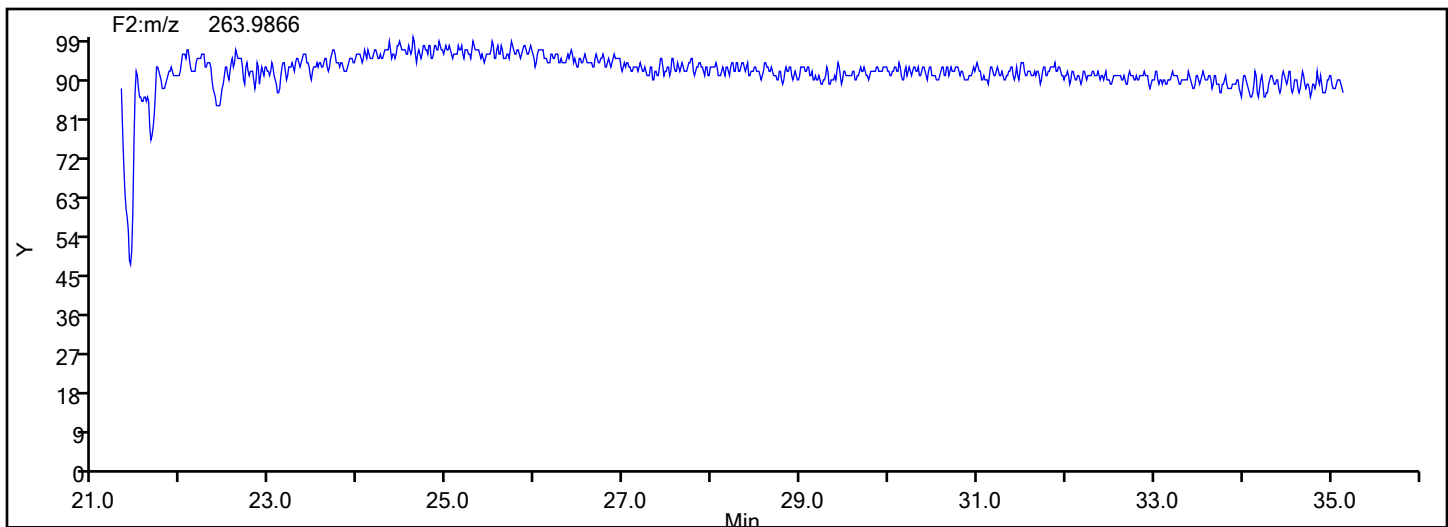


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



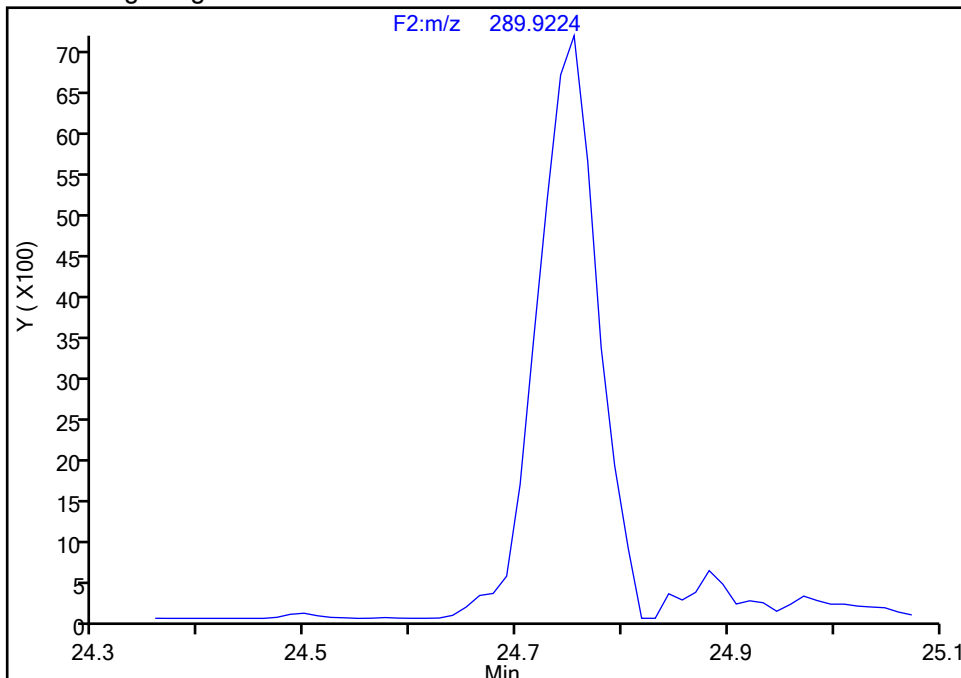
TePCB F2 Lock Mass



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d				
Injection Date:	11-Jun-2024 18:07:00	Instrument ID:	D2D		
Lims ID:	140-36689-A-3-C	Lab Sample ID:	140-36689-3		
Client ID:	M23-NO.3 BOILER-RUN 3 COMBINED				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl (0.25 mm)	Detector	F2(21.81 :35.54)		

Signal: 1

Not Detected
Expected RT: 24.69



RT: 24.75
Area: 28257
Amount: 1.098438
Amount Units: pg/ul

Chromatogram showing a major peak at 24.754 minutes. The y-axis is labeled 'Y (X100)' and ranges from 0 to 70. The x-axis is labeled 'RT' and ranges from 24.3 to 25.1. A green vertical line marks the peak at 24.754 minutes. A red vertical line is at 24.65 minutes. A green horizontal bar is at the bottom.

Eurofins Knoxville

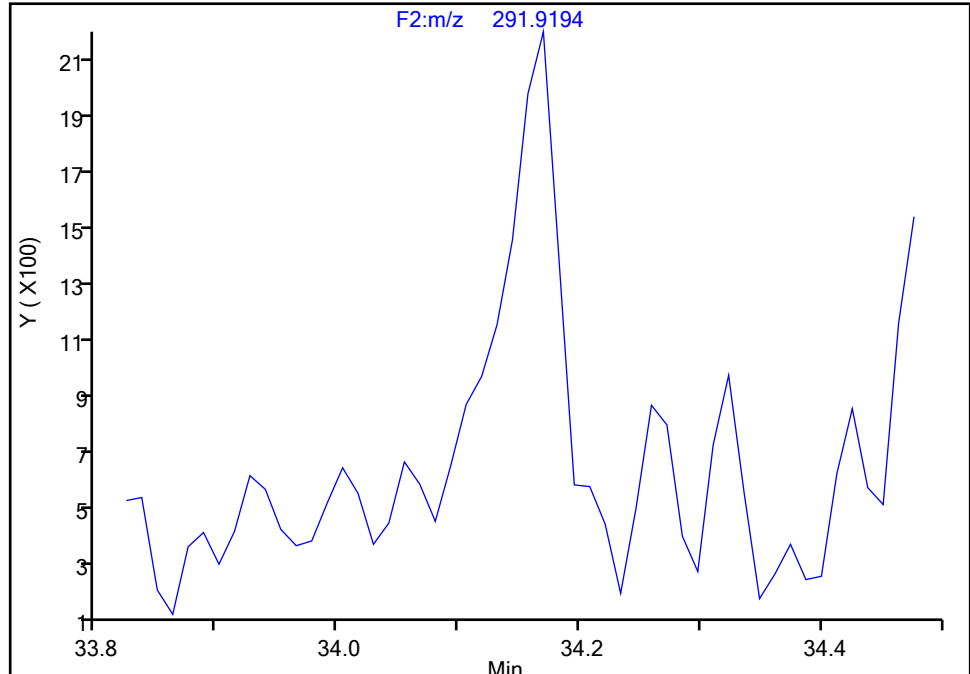
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 2

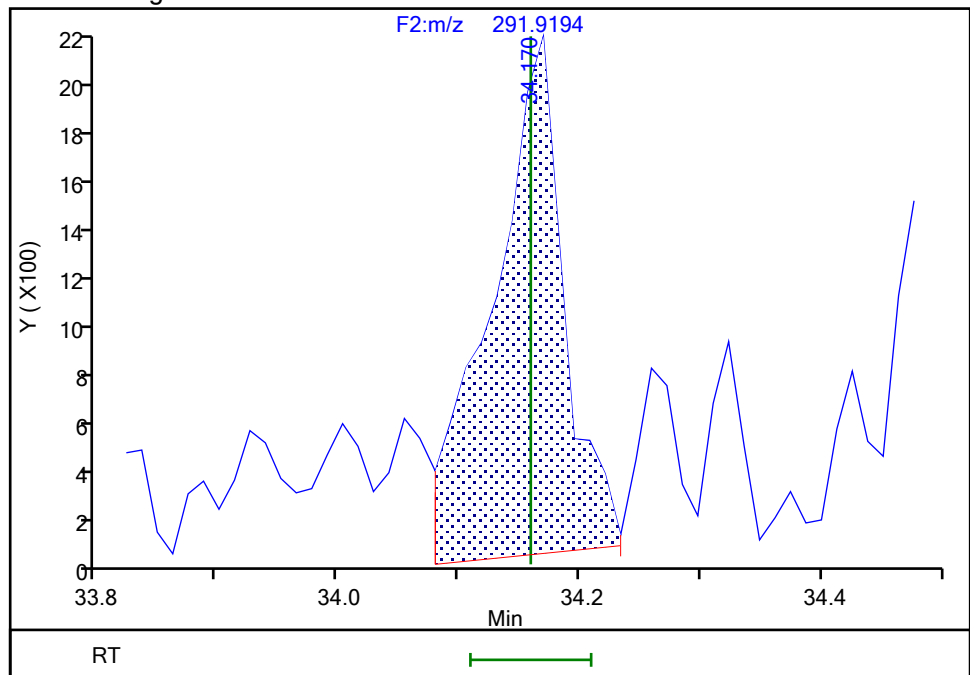
Not Detected
Expected RT: 34.16

Processing Integration Results



RT: 34.17
Area: 8608
Amount: 0.216548
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 19:33:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

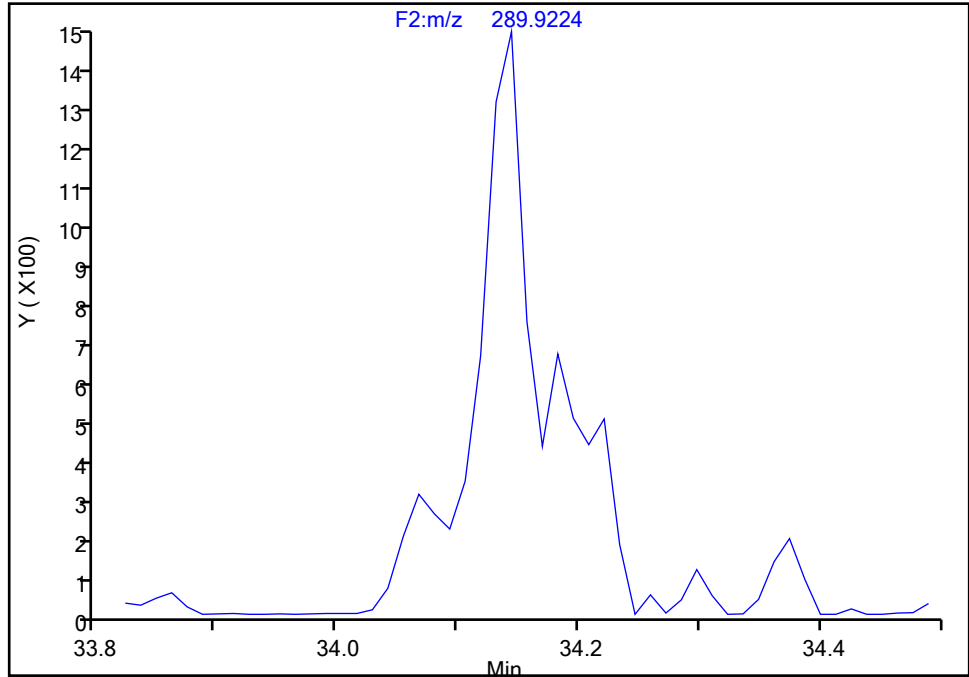
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 1

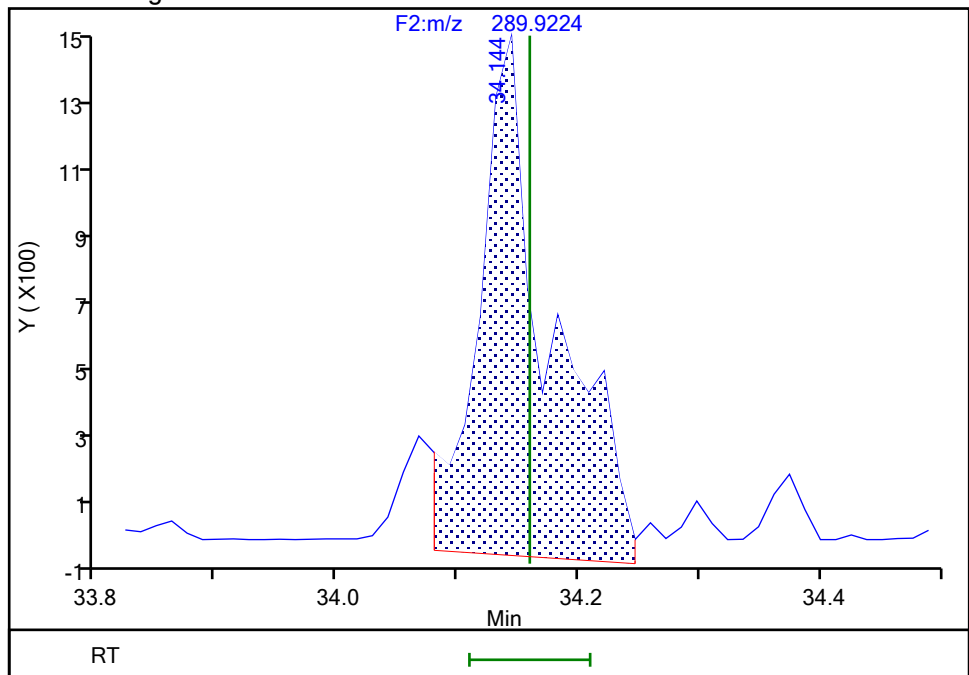
Not Detected
Expected RT: 34.16

Processing Integration Results



Manual Integration Results

RT: 34.14
Area: 5979
Amount: 0.216548
Amount Units: pg/ul



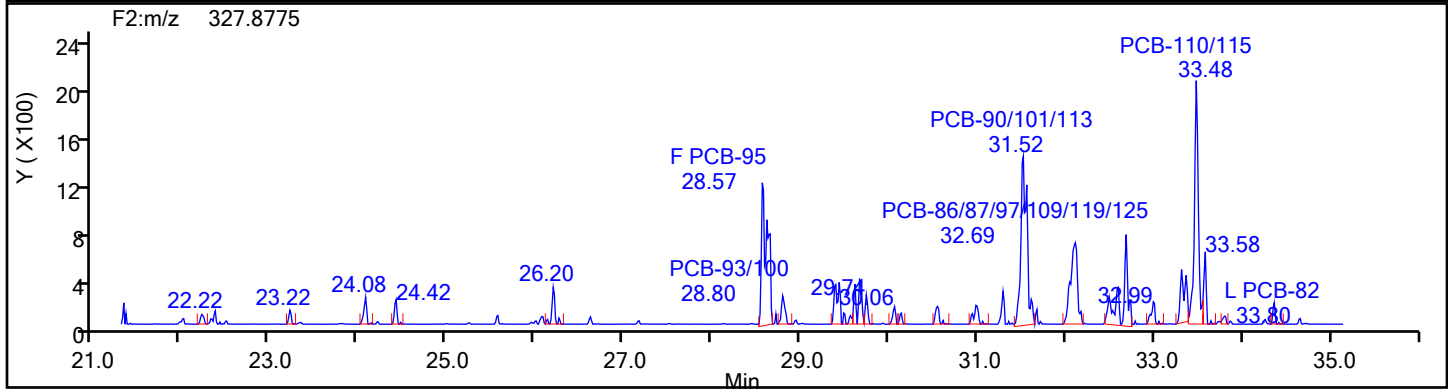
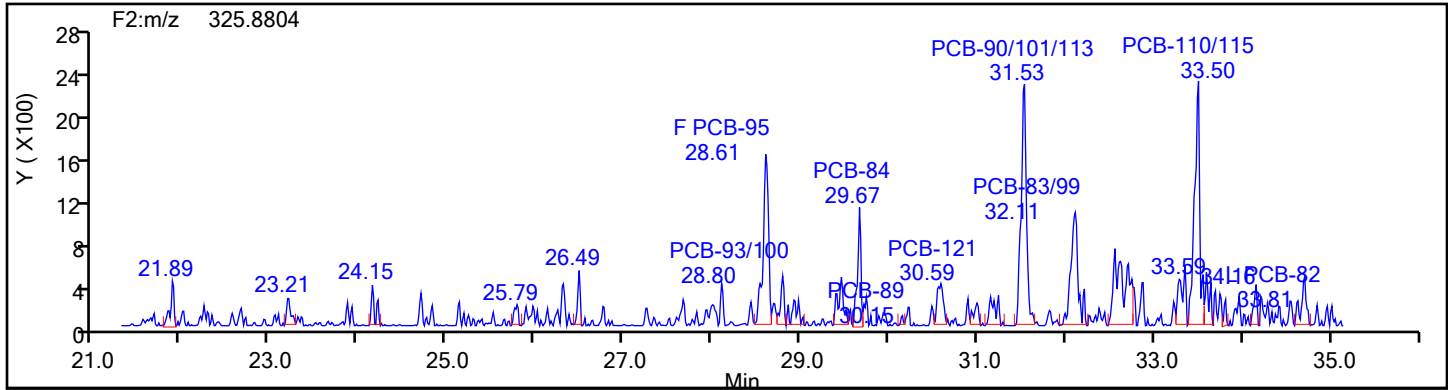
Reviewer: Q9DB, 11-Jun-2024 19:33:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

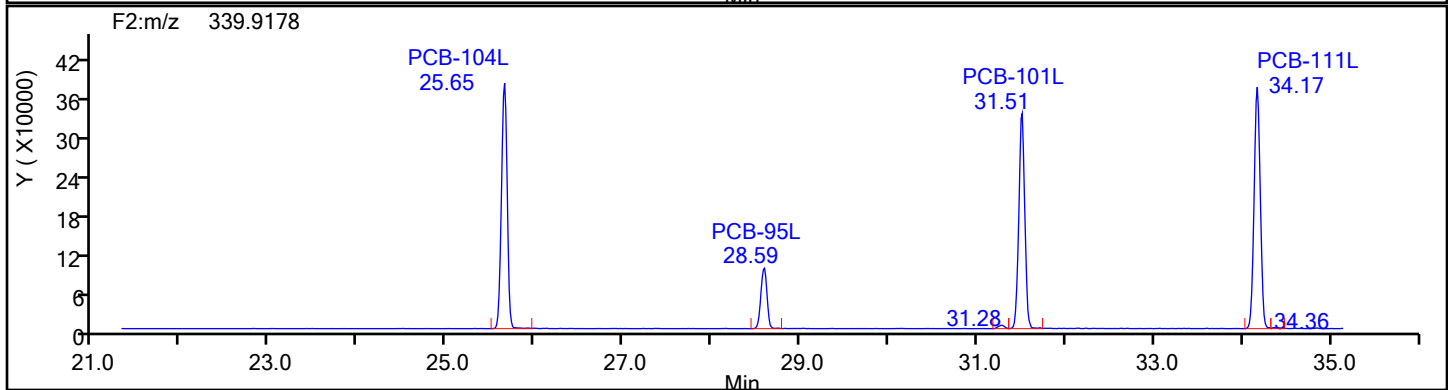
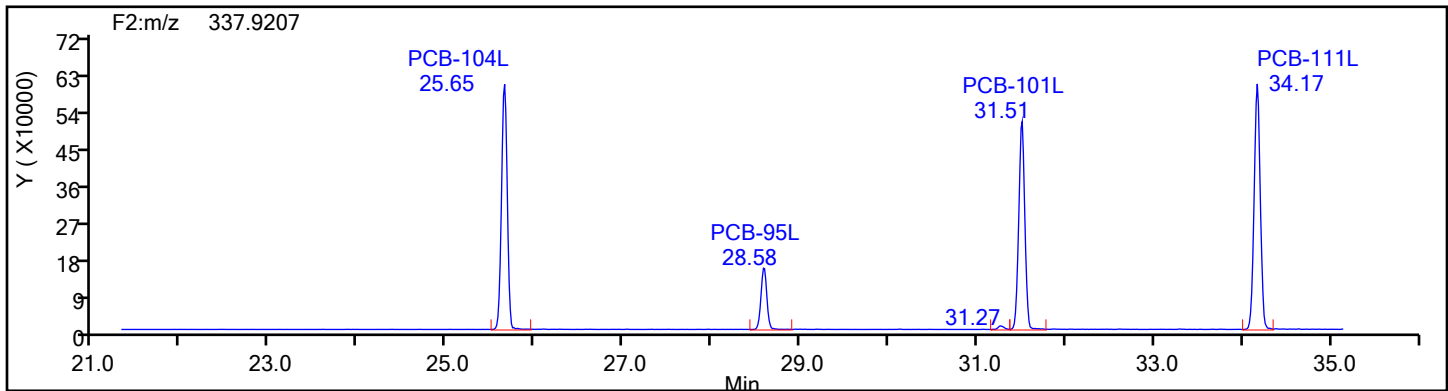
Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

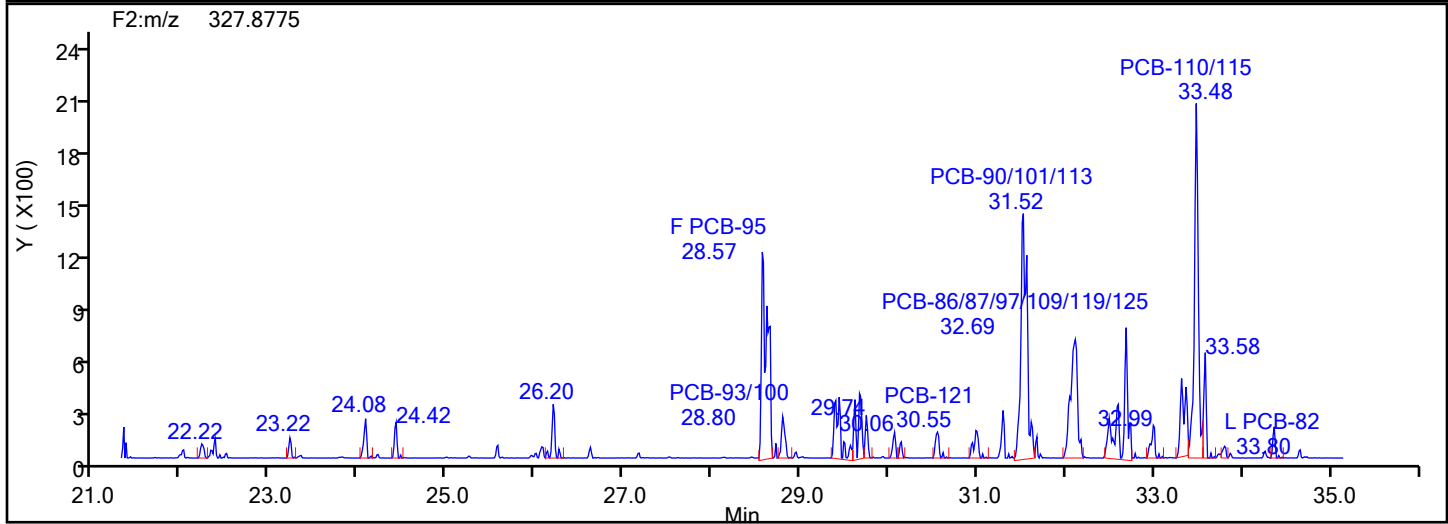
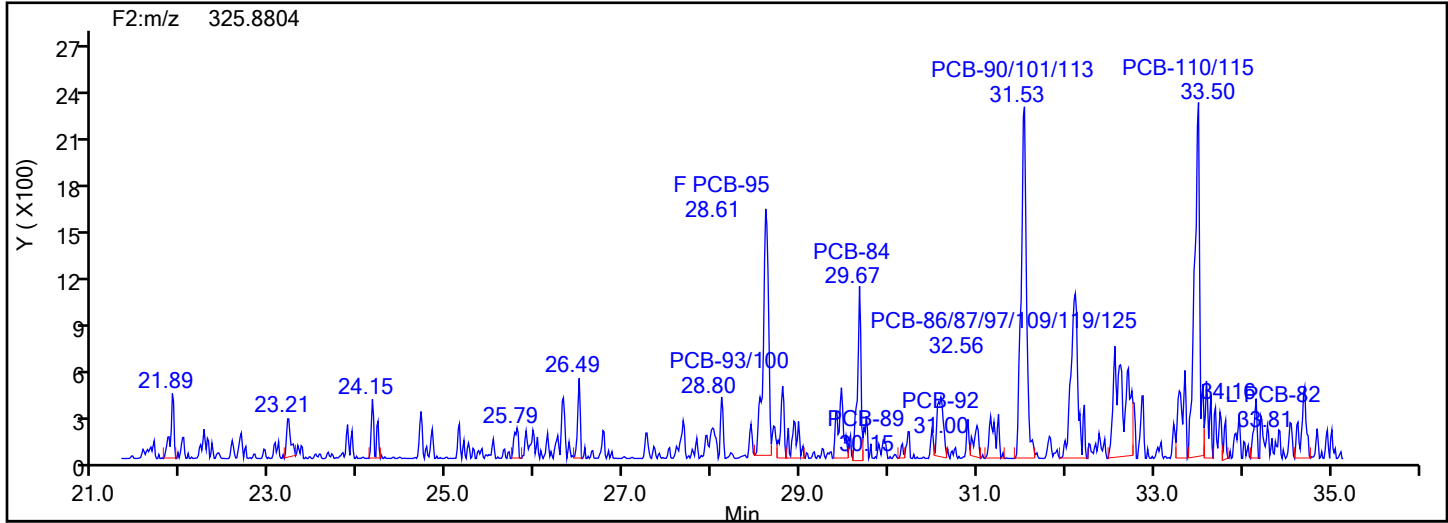


PePCB F2 Standards

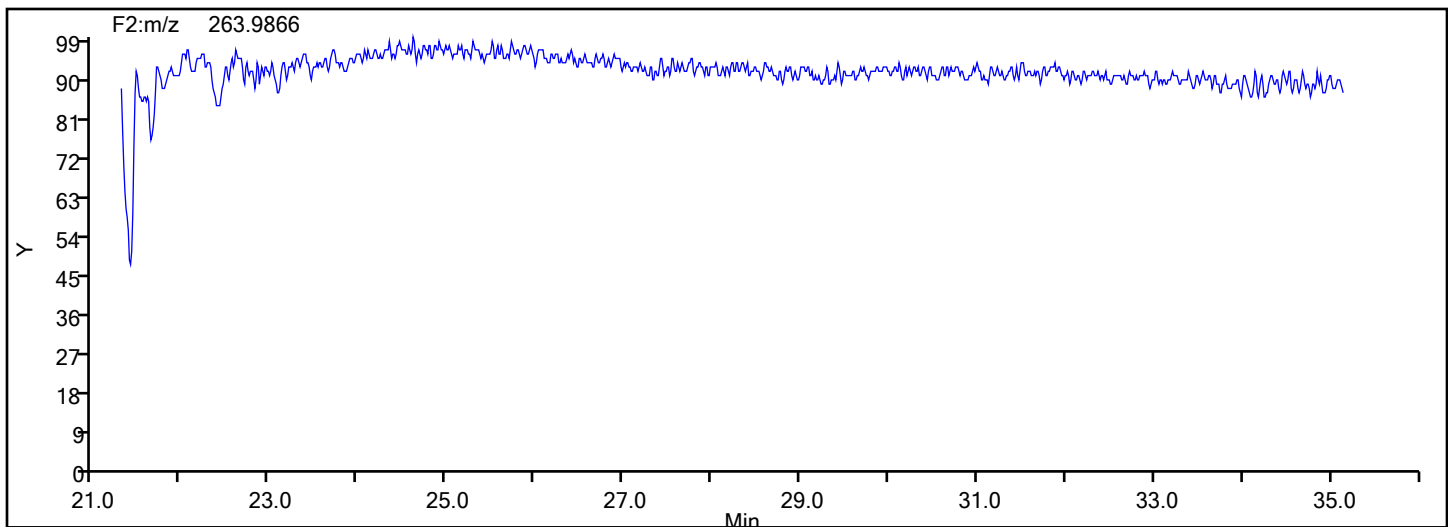


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

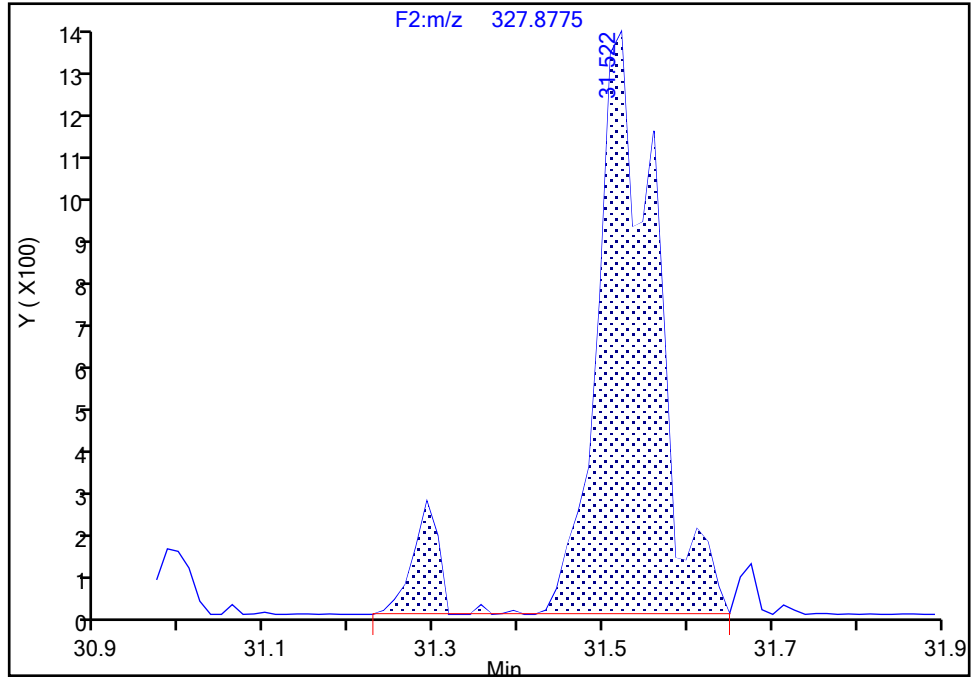
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-90/101/113, CAS: STL01813

Signal: 2

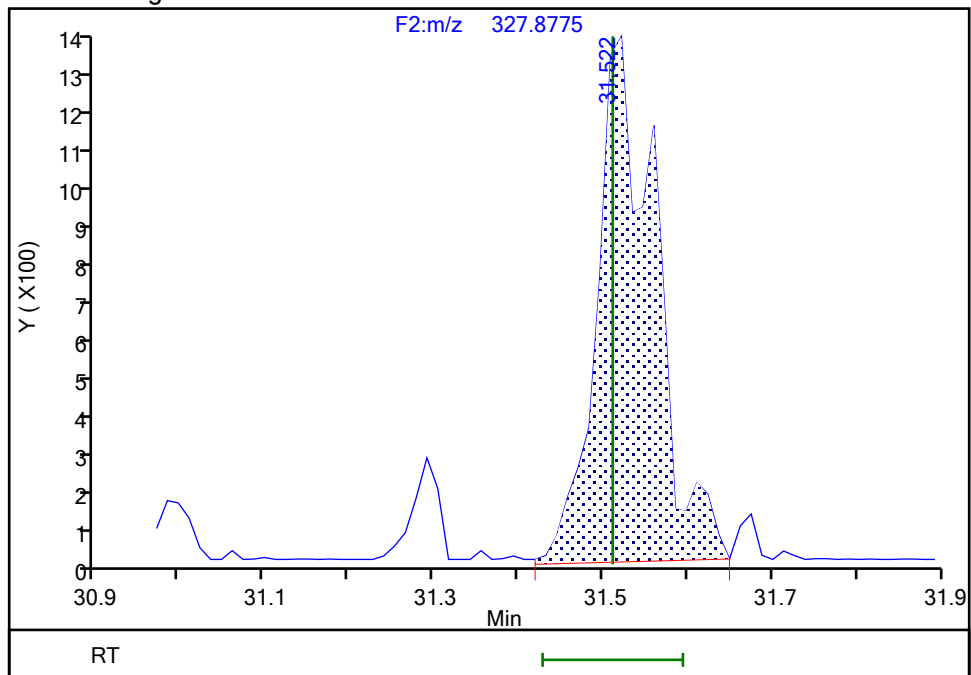
RT: 31.52
Area: 7153
Amount: 0.393785
Amount Units: pg/ul

Processing Integration Results



RT: 31.52
Area: 6632
Amount: 0.378992
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 19:38:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

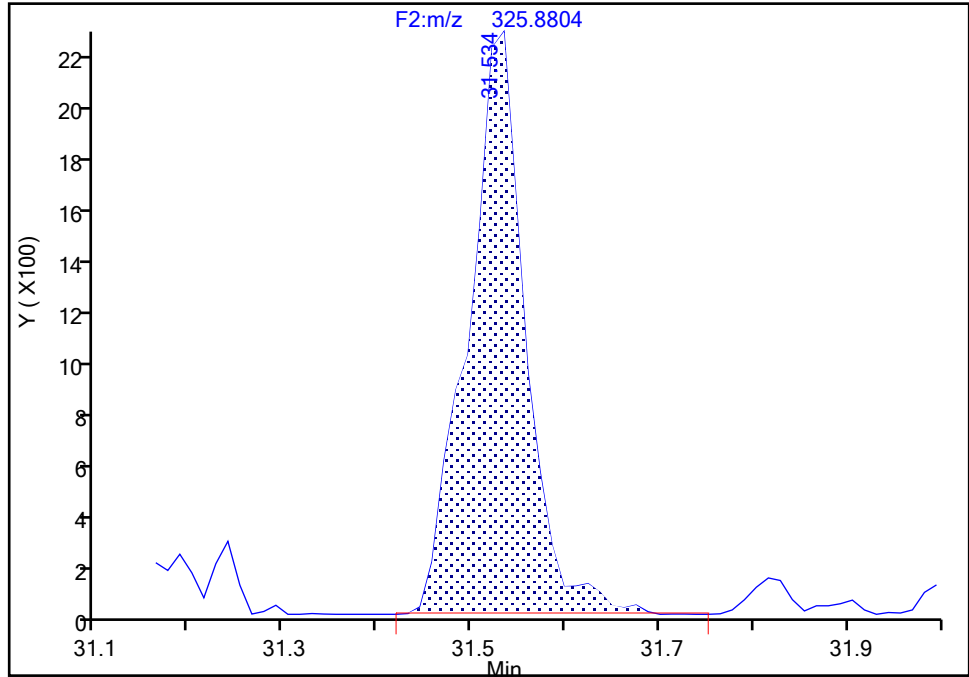
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-90/101/113, CAS: STL01813

Signal: 1

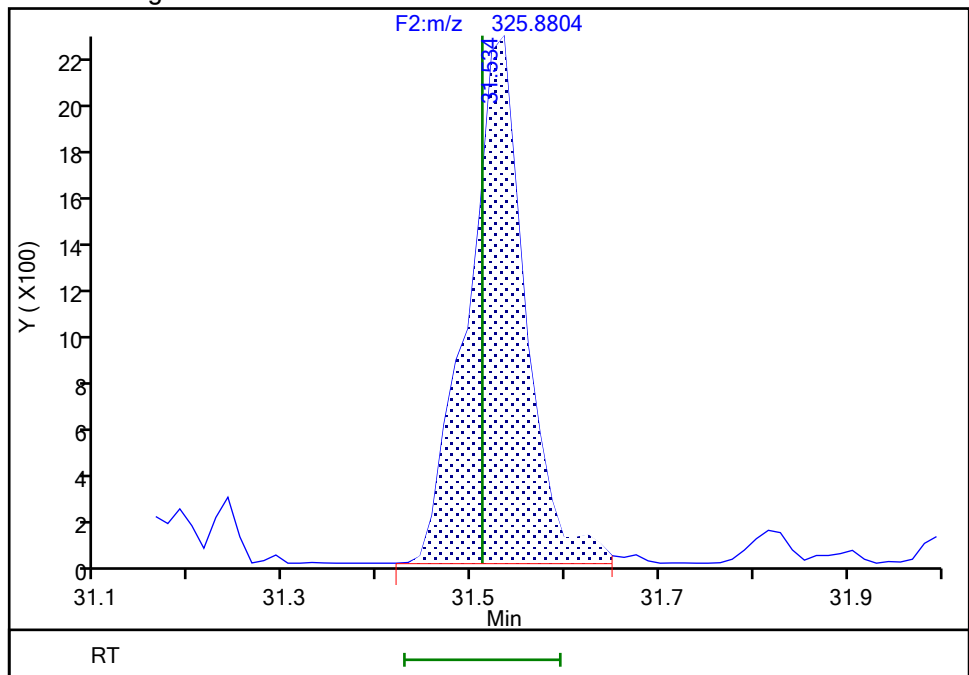
RT: 31.53
Area: 9645
Amount: 0.393785
Amount Units: pg/ul

Processing Integration Results



RT: 31.53
Area: 9535
Amount: 0.378992
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 19:38:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

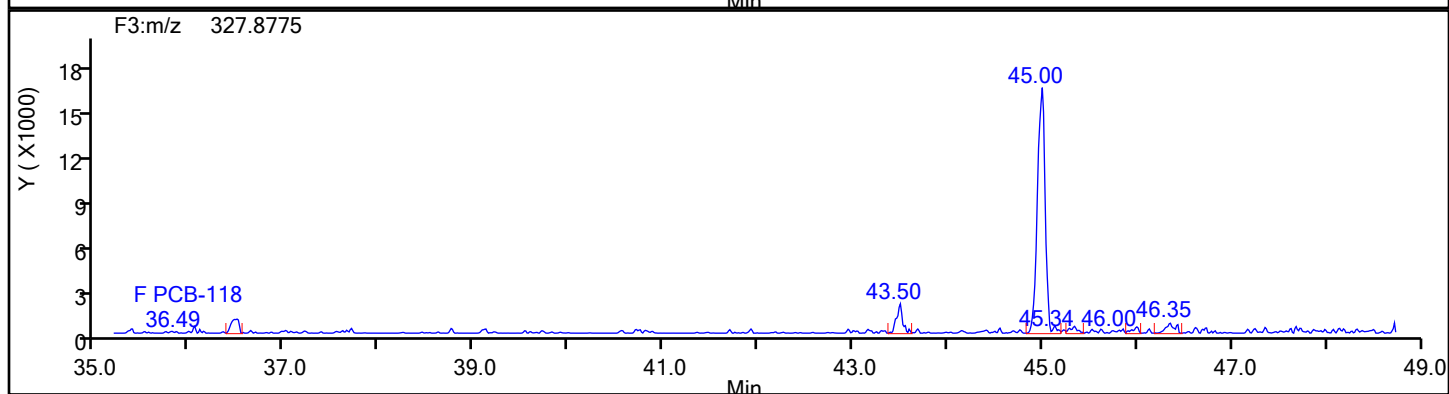
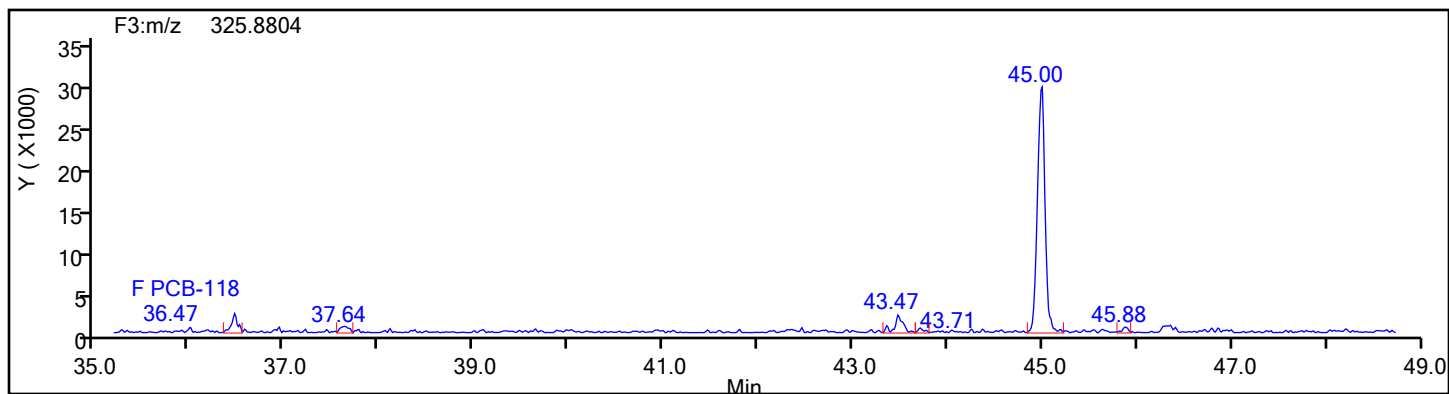
Audit Reason: Baseline

Page 1123 of 3076

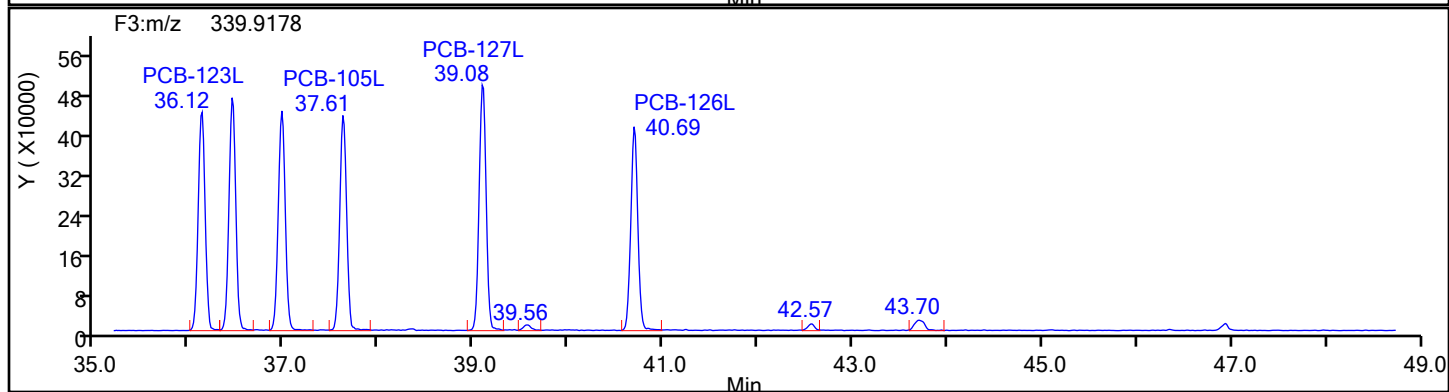
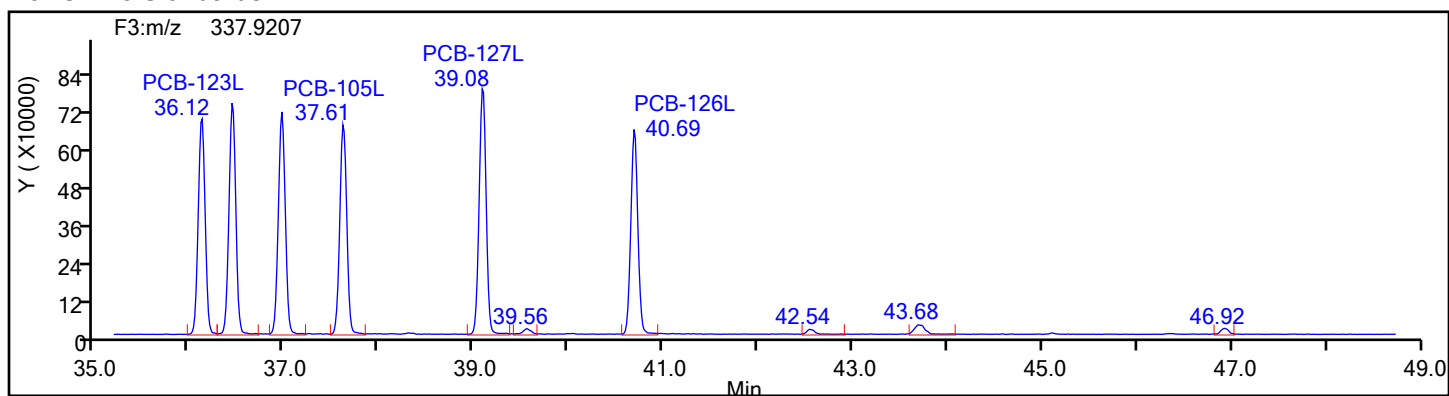
BASFHWC-GS-2575
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d

Injection Date: 11-Jun-2024 18:07:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 3 COMBINED

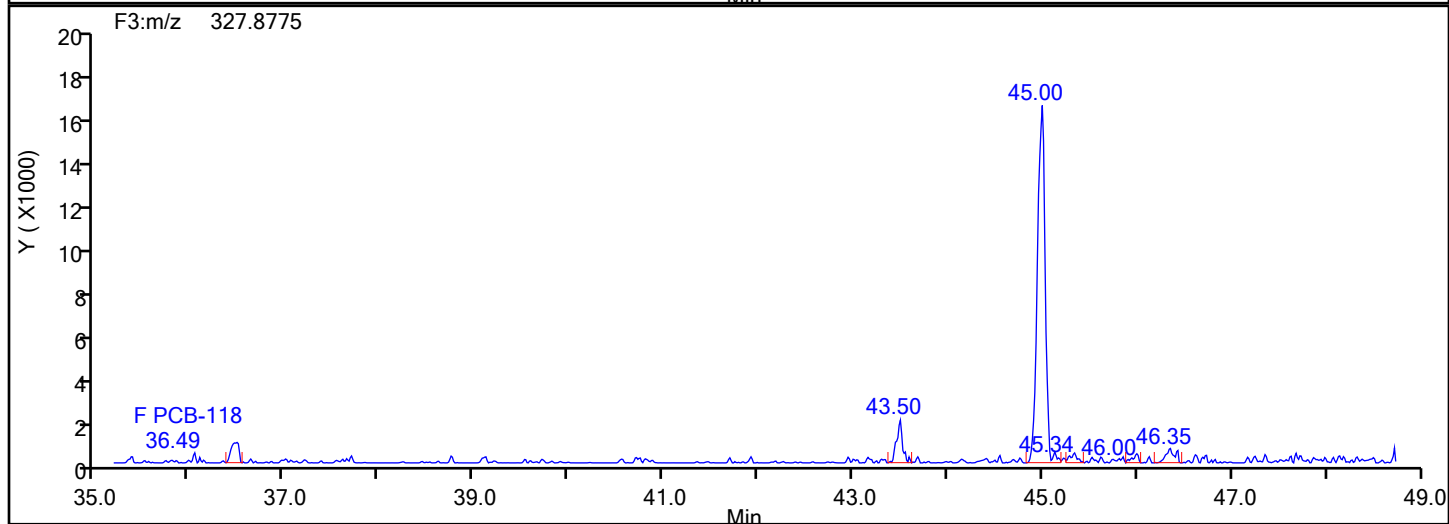
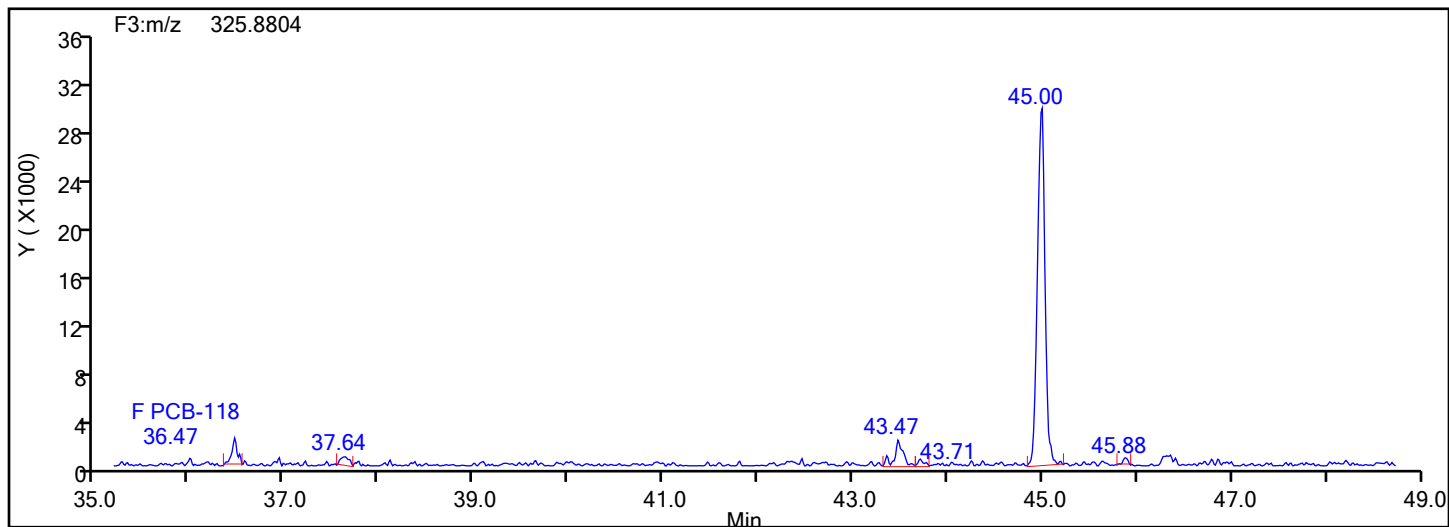
Worklist#: 87502

Sample Line#: 11

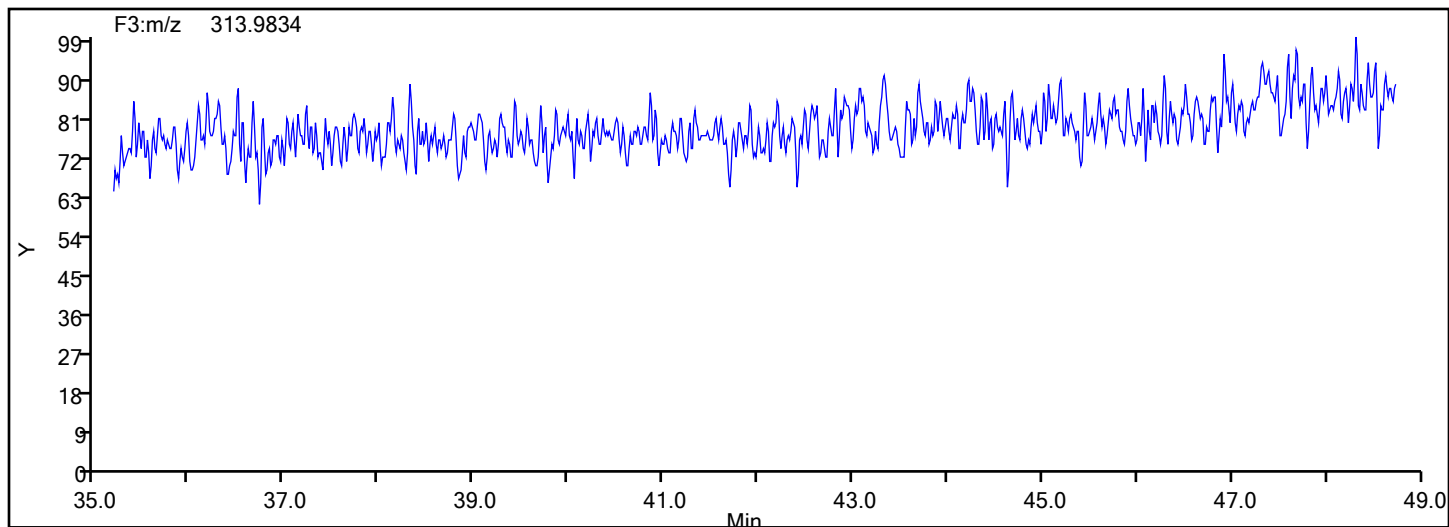
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3

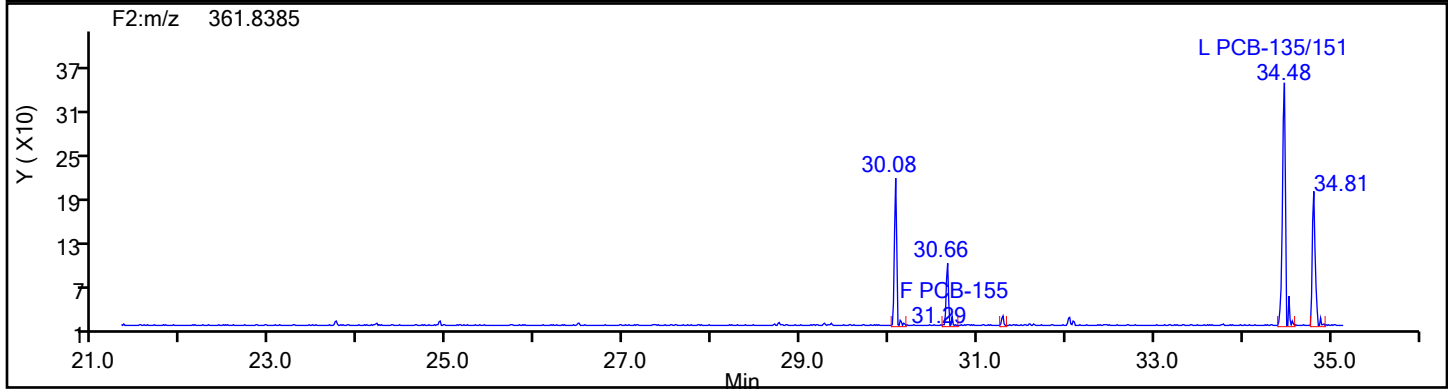
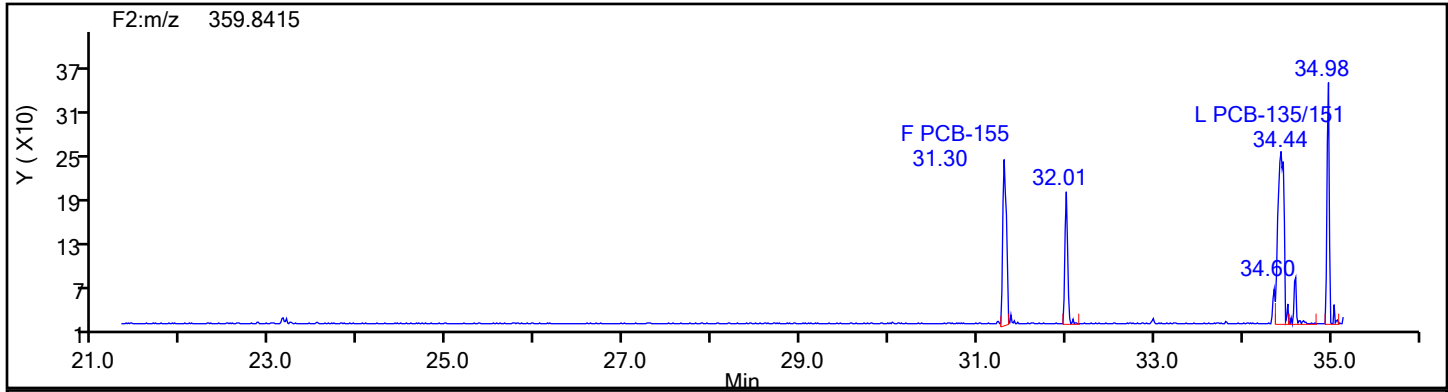


PePCB F3 Lock Mass

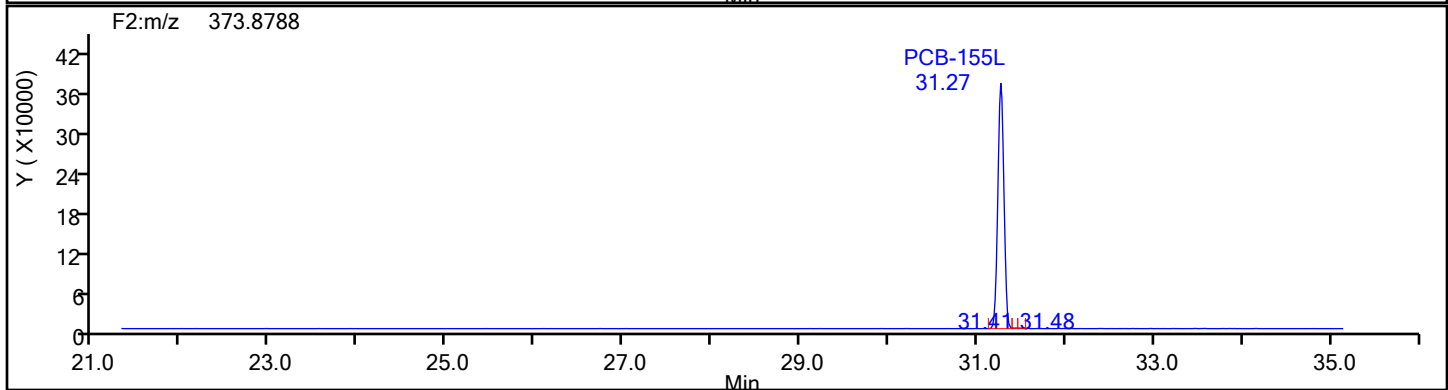
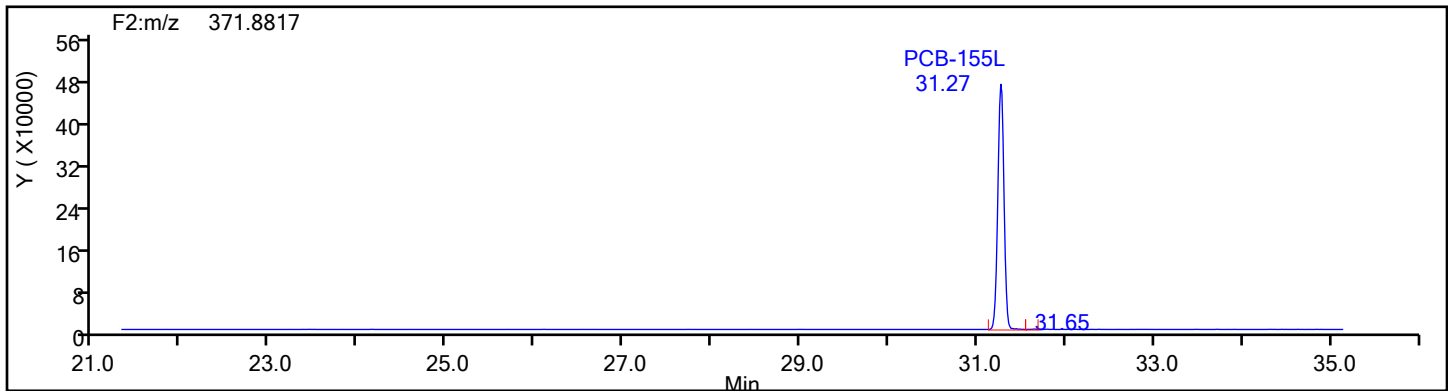


Eurofins Knoxville

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Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

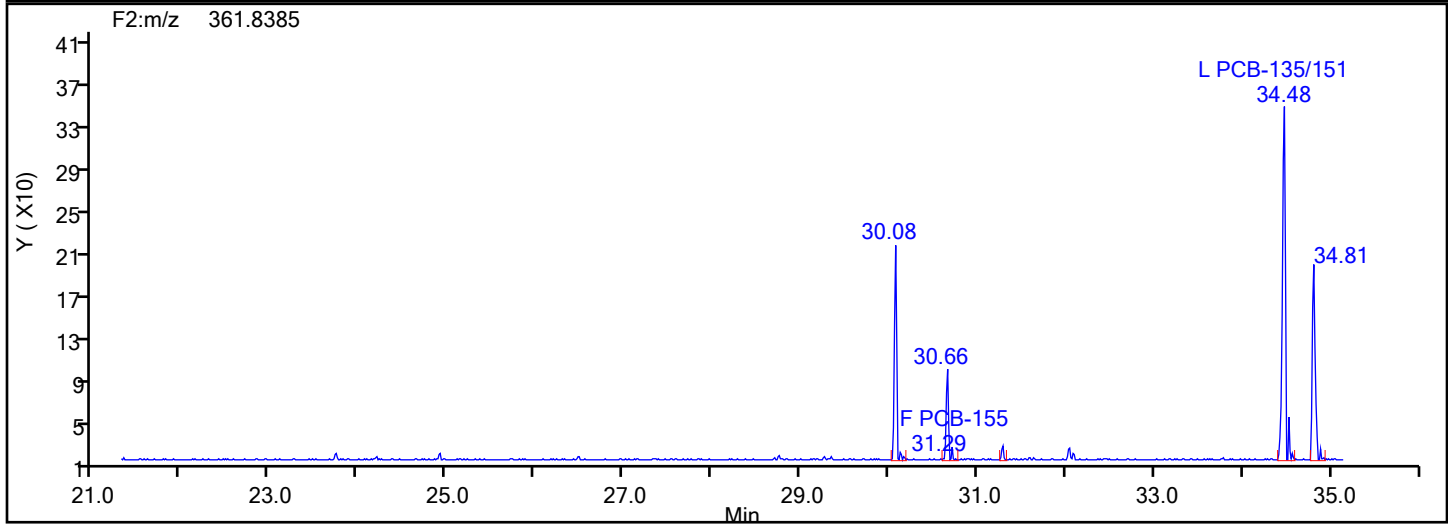
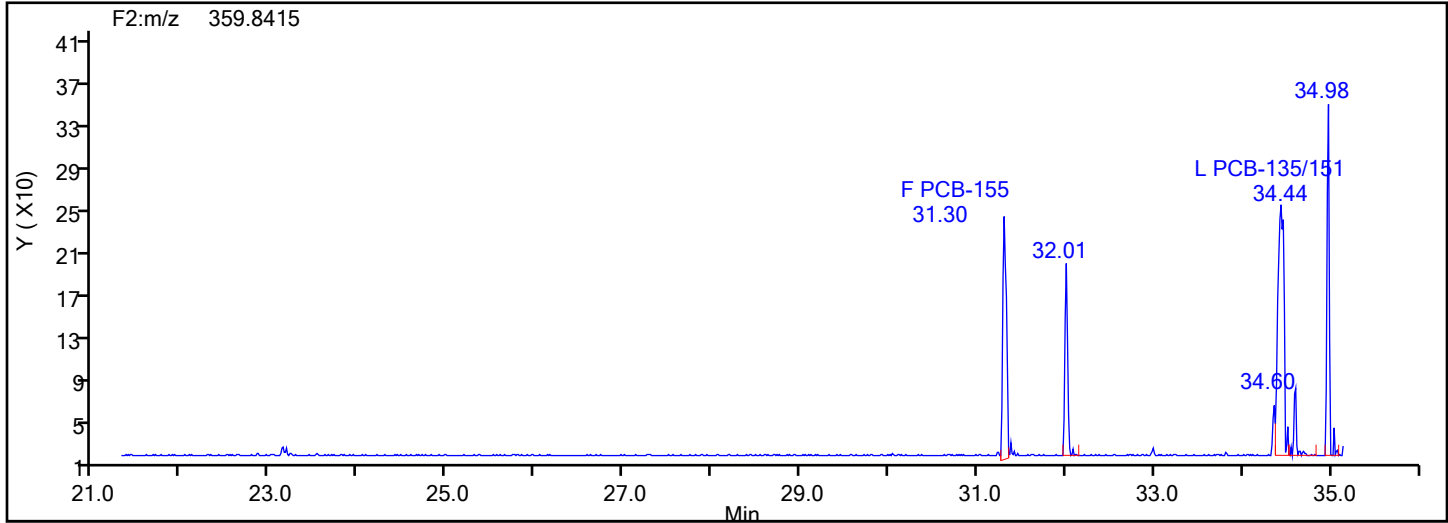


HxPCB F2 Standards

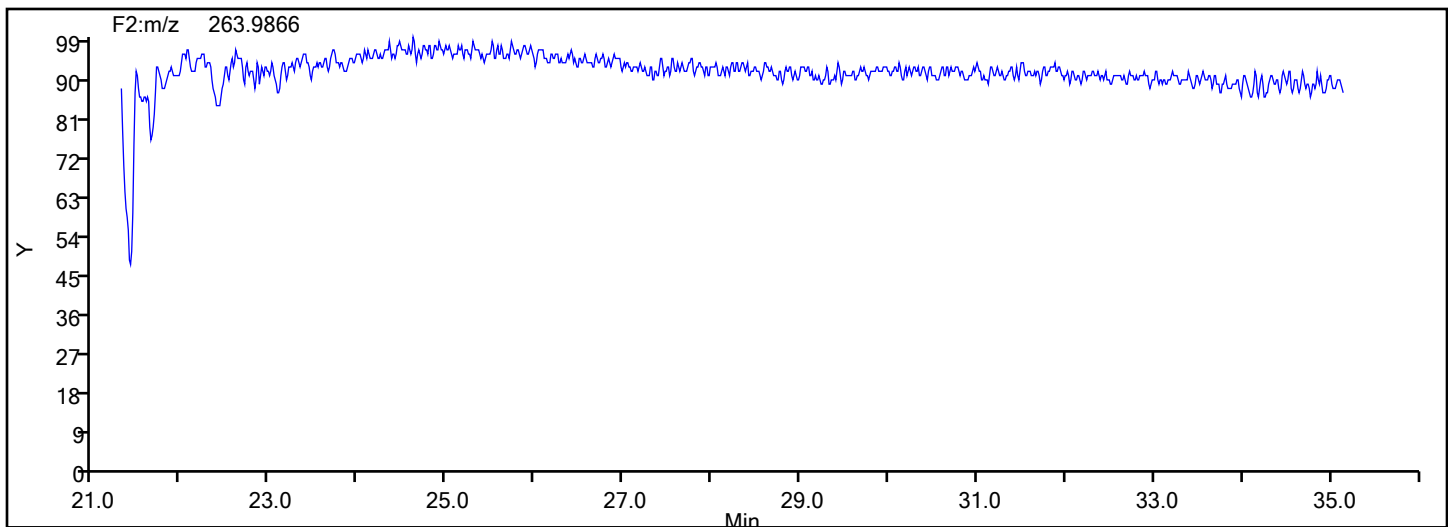


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

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Injection Date: 11-Jun-2024 18:07:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 3 COMBINED

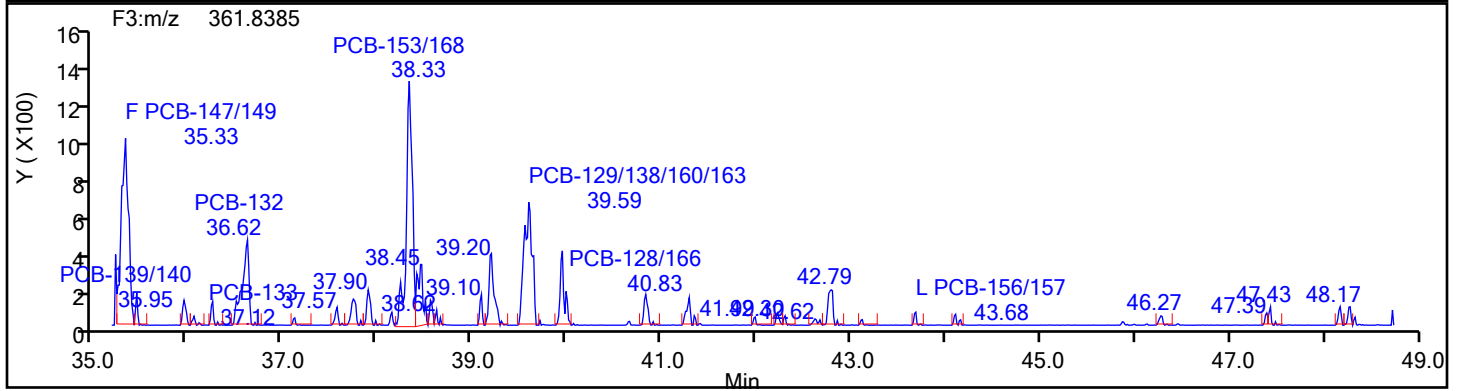
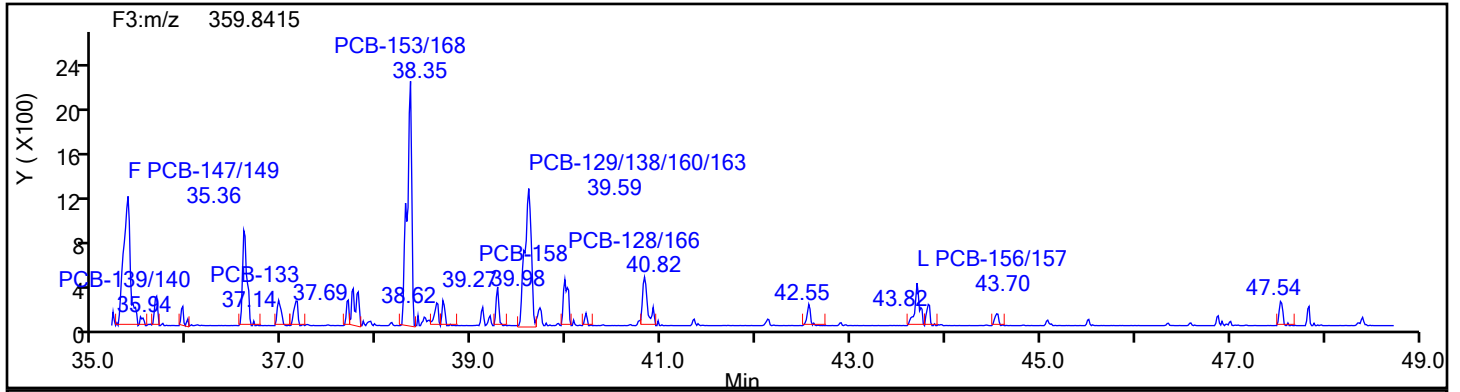
Worklist#: 87502

Sample Line#: 11

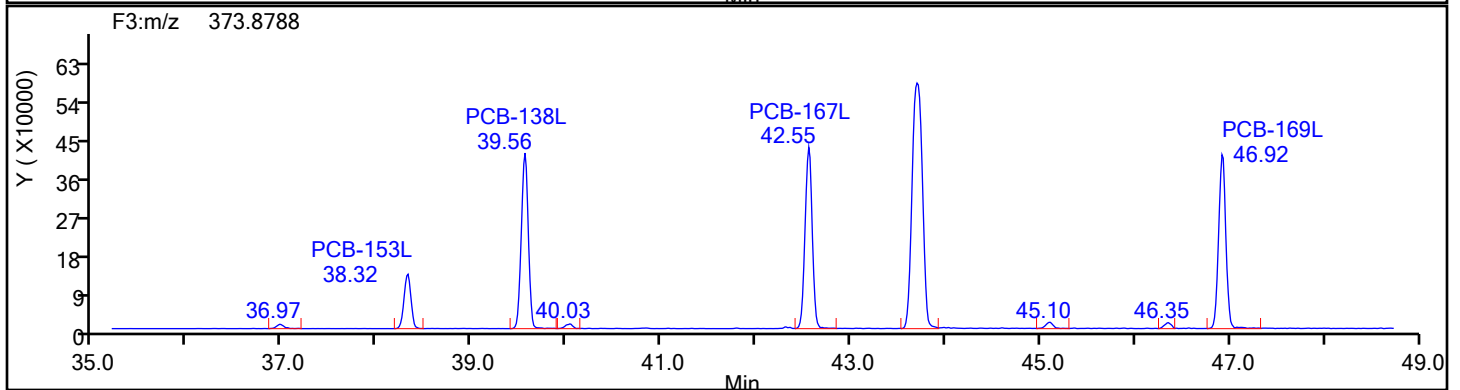
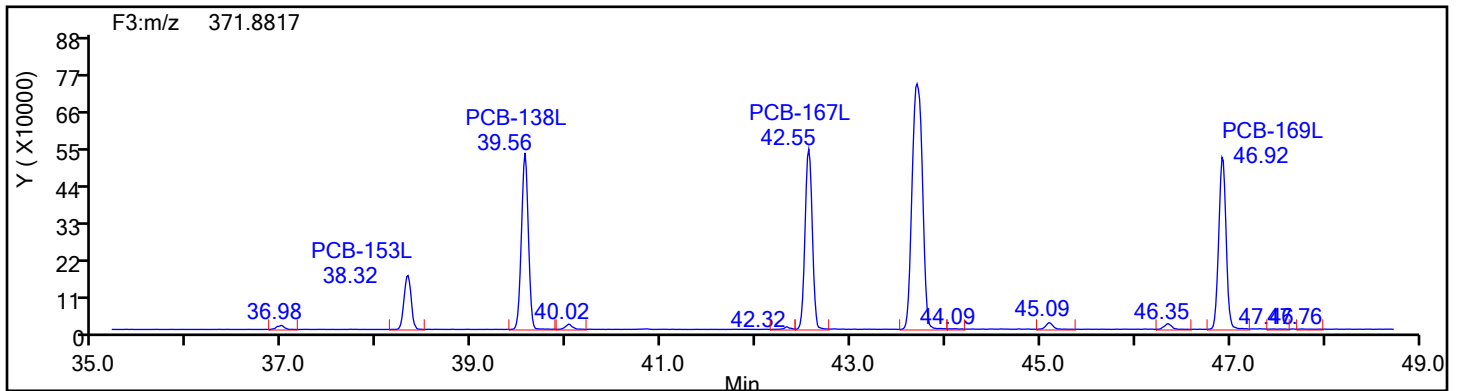
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

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Injection Date: 11-Jun-2024 18:07:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 3 COMBINED

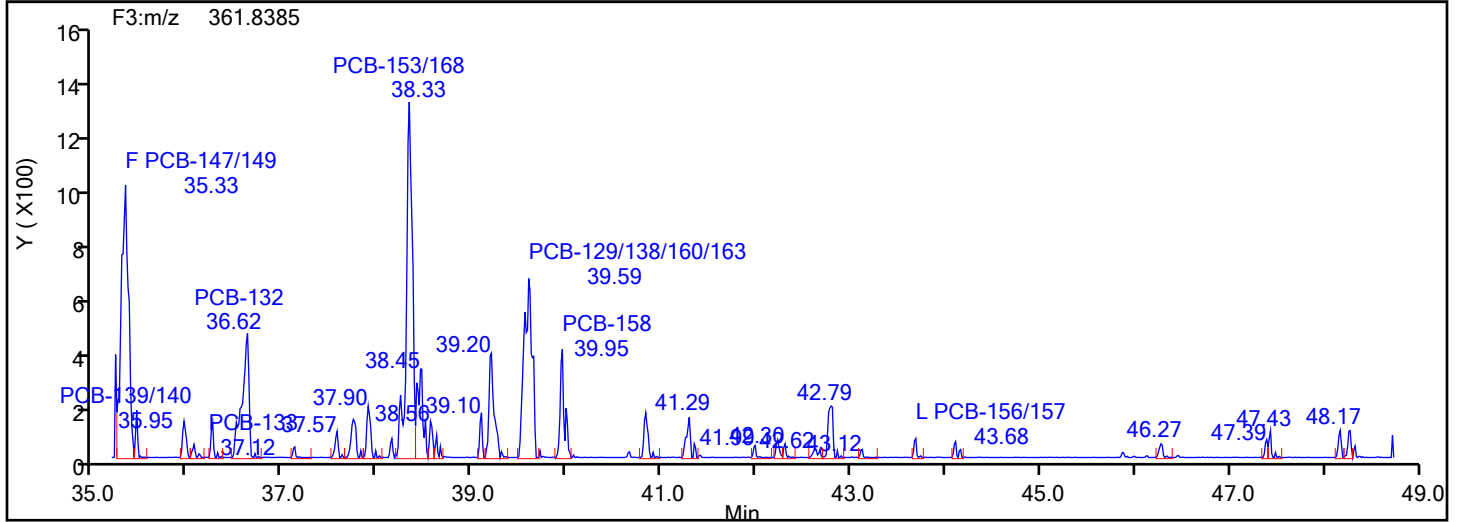
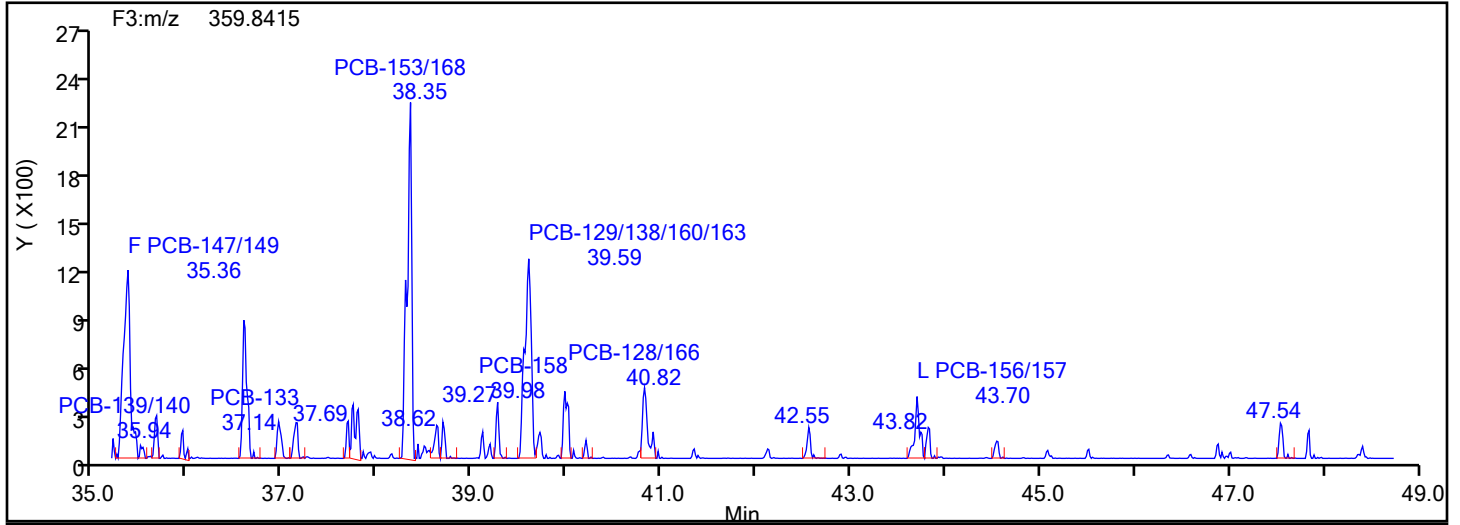
Worklist#: 87502

Sample Line#: 11

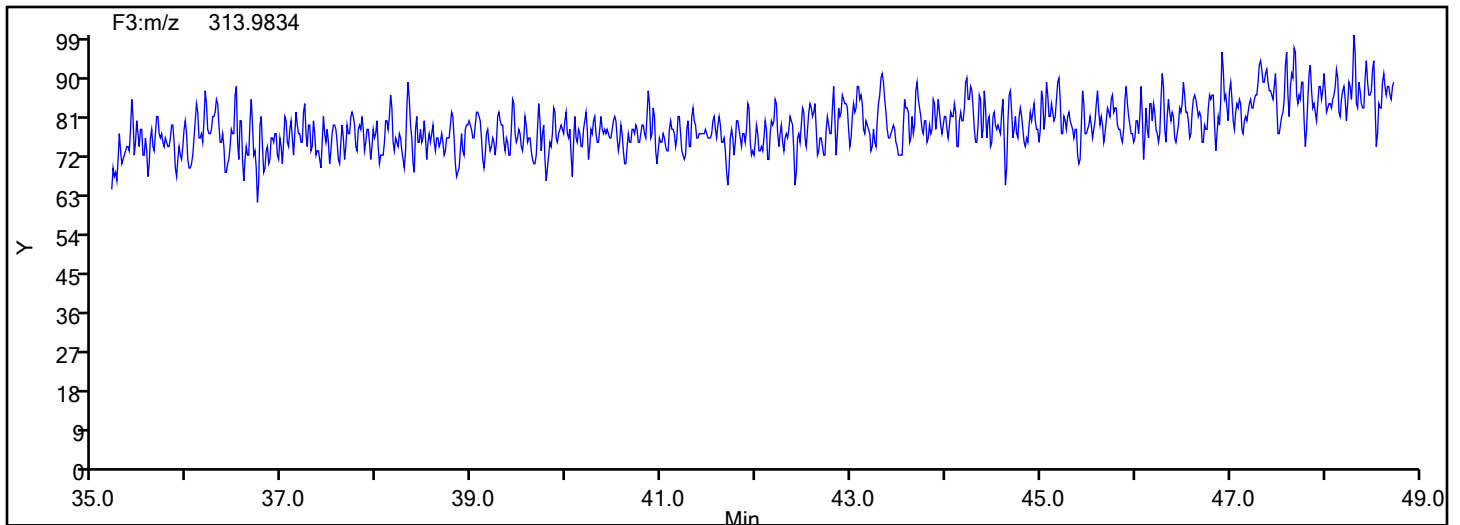
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

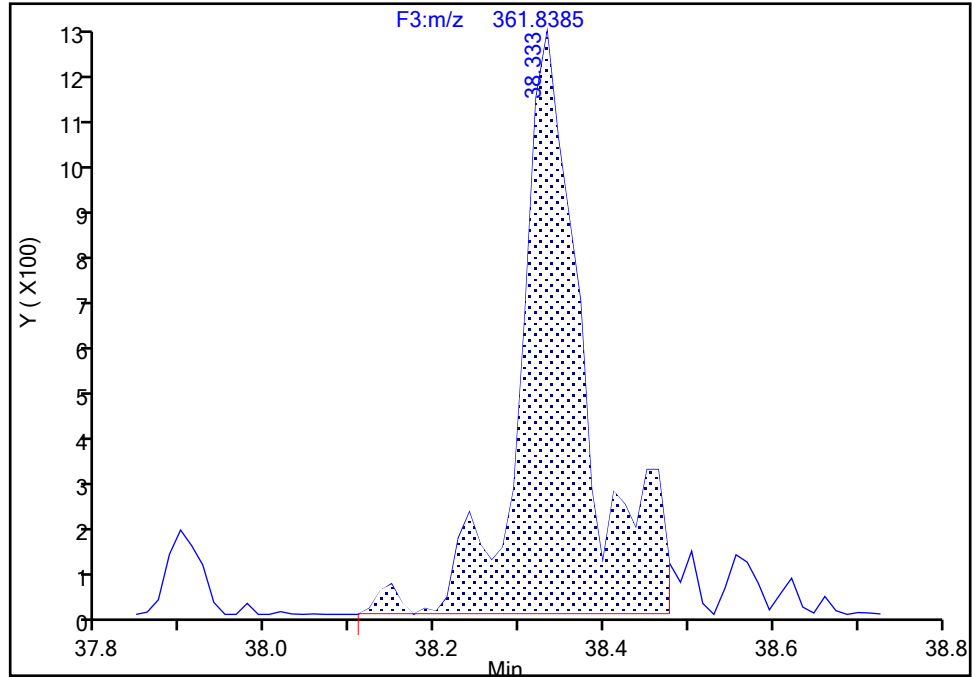
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-153/168, CAS: STL01822

Signal: 2

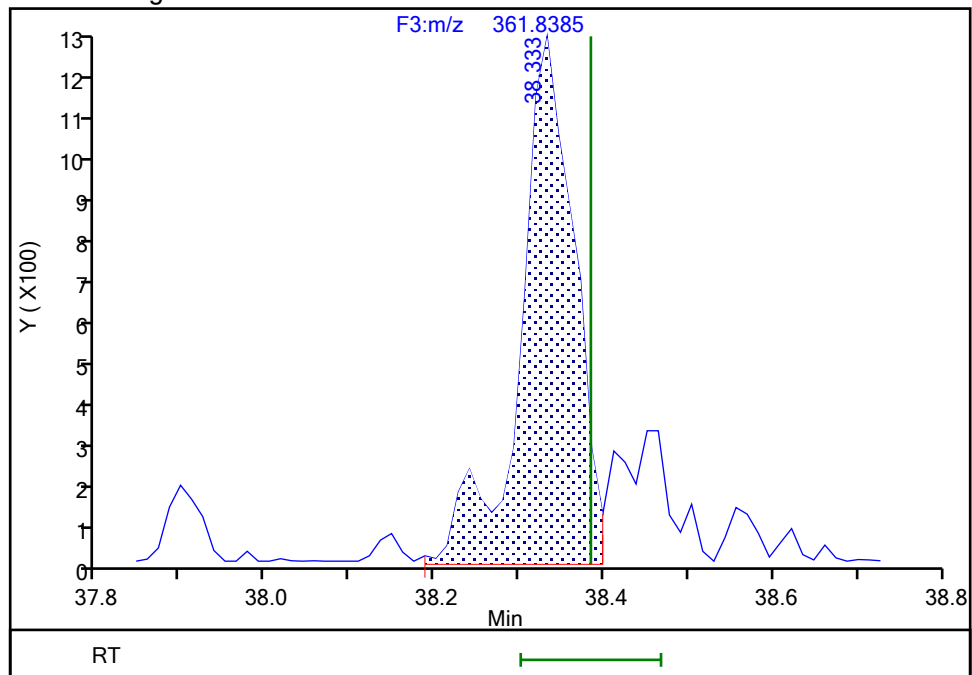
RT: 38.33
Area: 6858
Amount: 0.262423
Amount Units: pg/ul

Processing Integration Results



RT: 38.33
Area: 5660
Amount: 0.240083
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 19:43:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

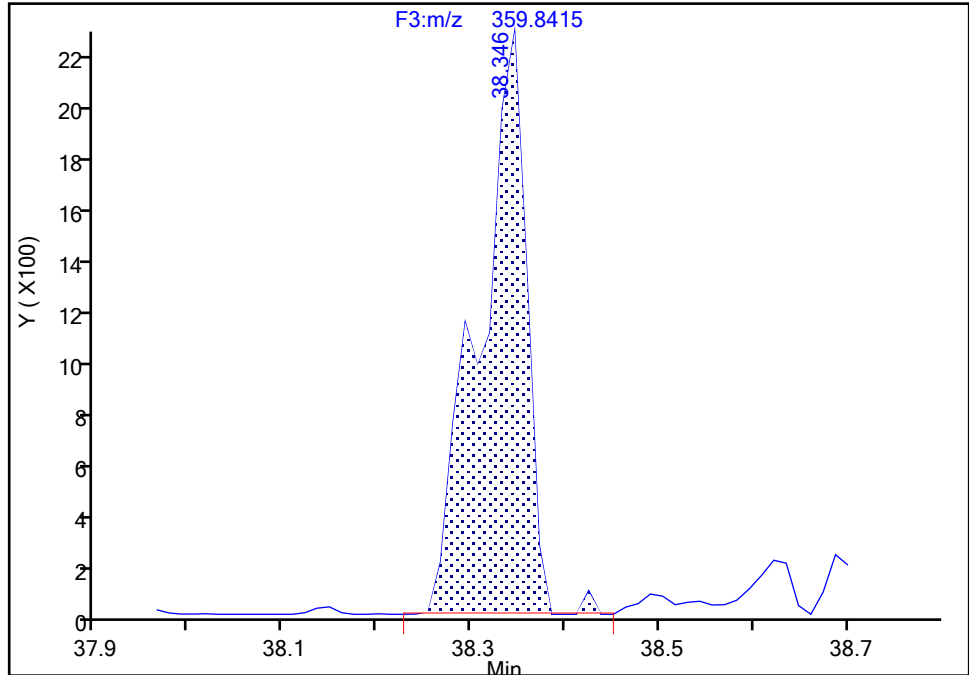
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-153/168, CAS: STL01822

Signal: 1

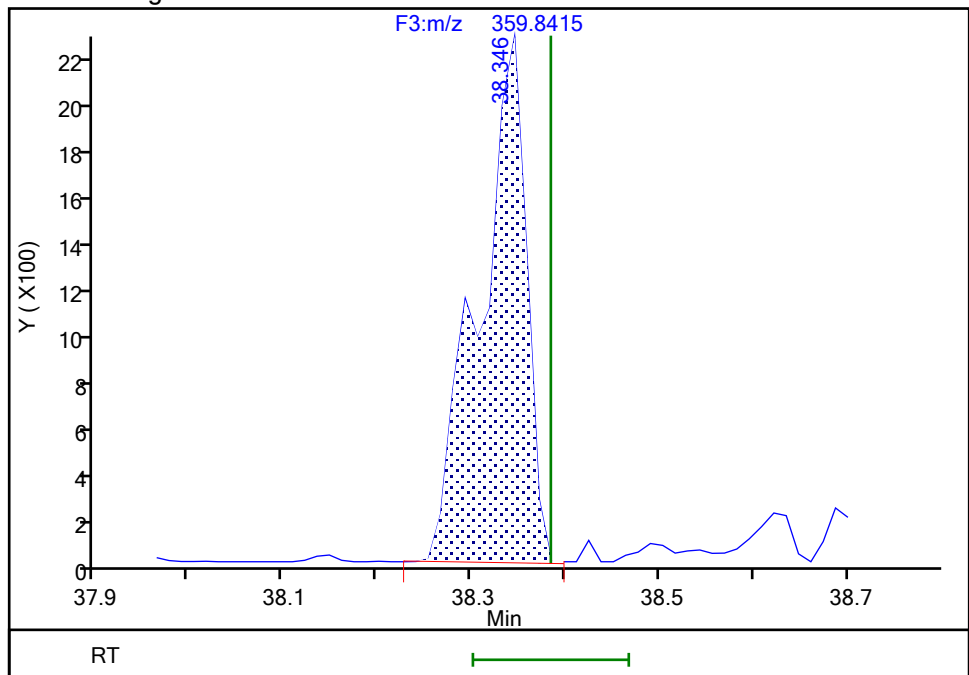
RT: 38.35
Area: 7673
Amount: 0.262423
Amount Units: pg/ul

Processing Integration Results



RT: 38.35
Area: 7634
Amount: 0.240083
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 19:43:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-0152583
9/6/2024
2:43:26 PM

Eurofins Knoxville

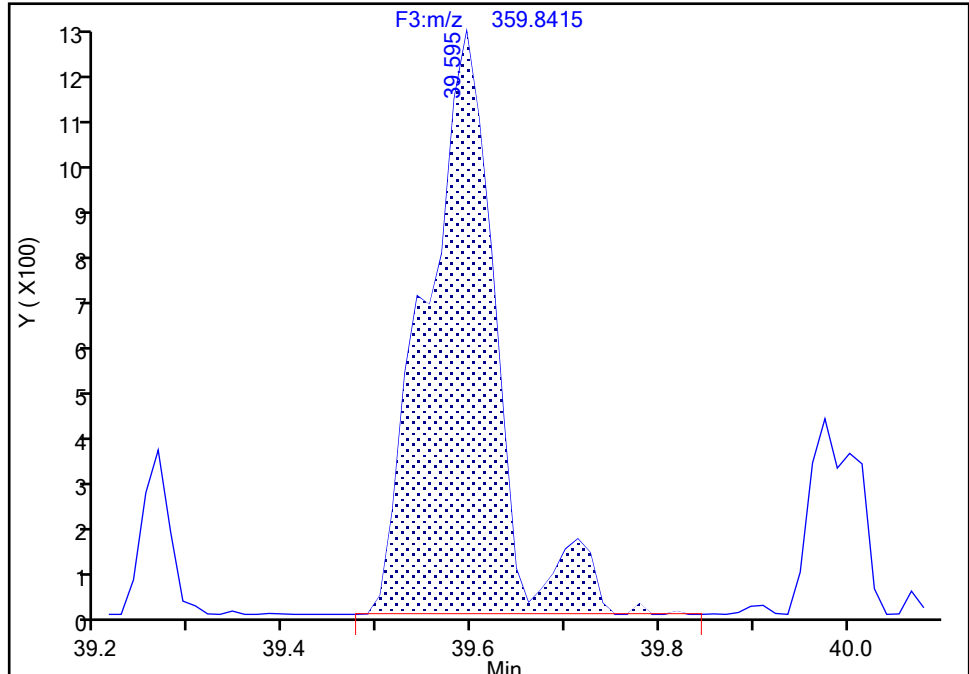
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

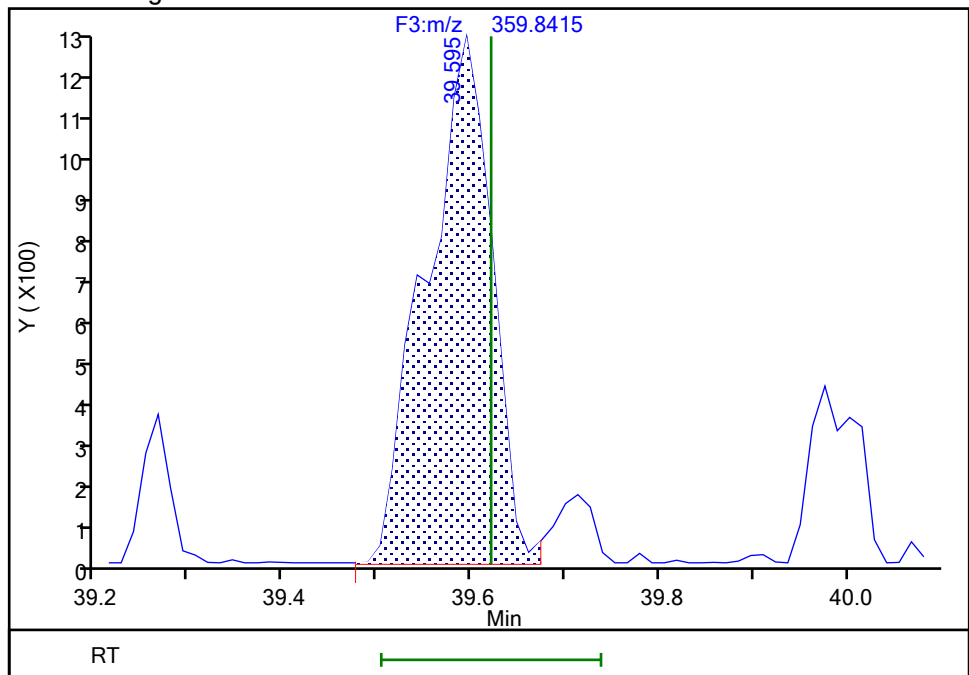
RT: 39.59
Area: 6415
Amount: 0.212765
Amount Units: pg/ul

Processing Integration Results



RT: 39.59
Area: 5962
Amount: 0.203310
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 19:43:43 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

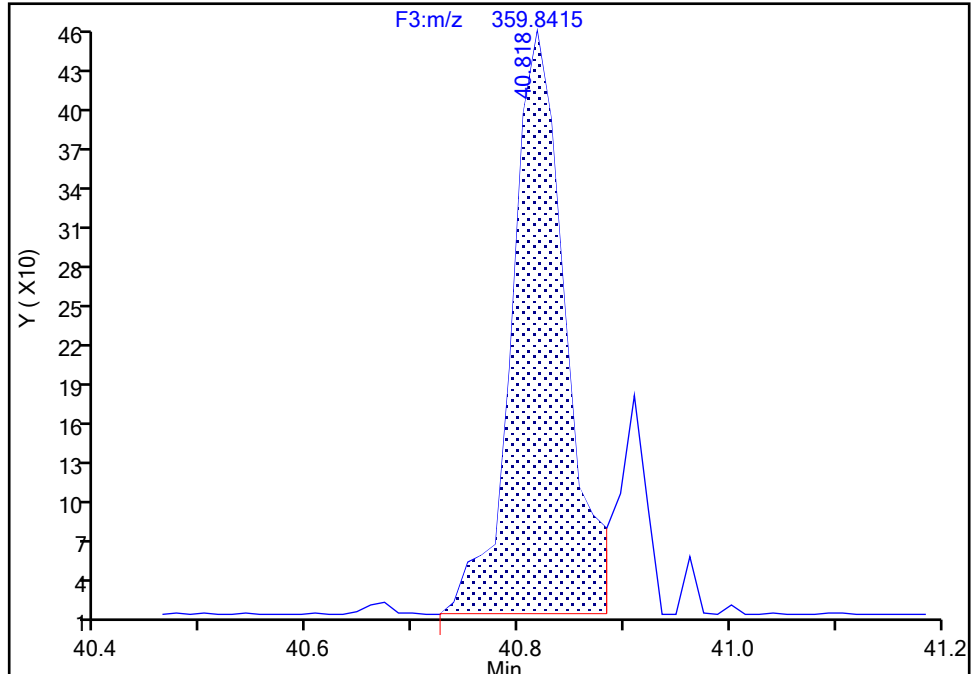
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-128/166, CAS: STL01816

Signal: 1

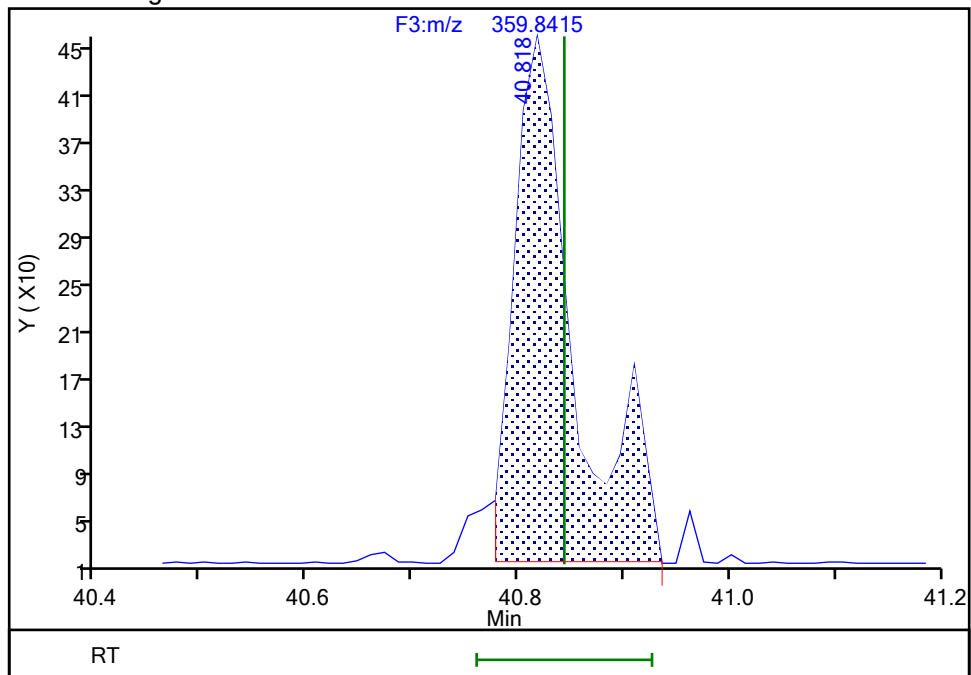
RT: 40.82
Area: 1520
Amount: 0.039890
Amount Units: pg/ul

Processing Integration Results



RT: 40.82
Area: 1704
Amount: 0.043588
Amount Units: pg/ul

Manual Integration Results



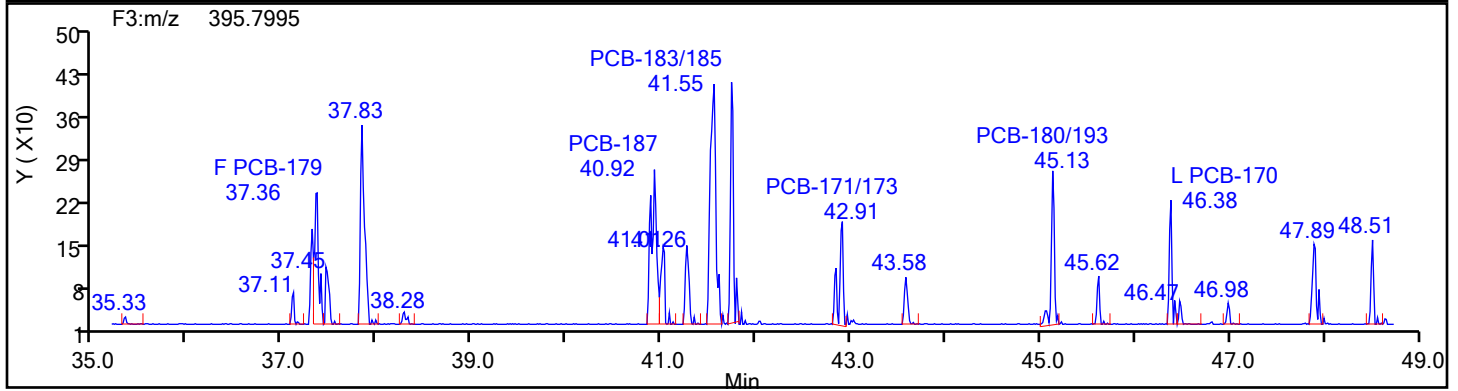
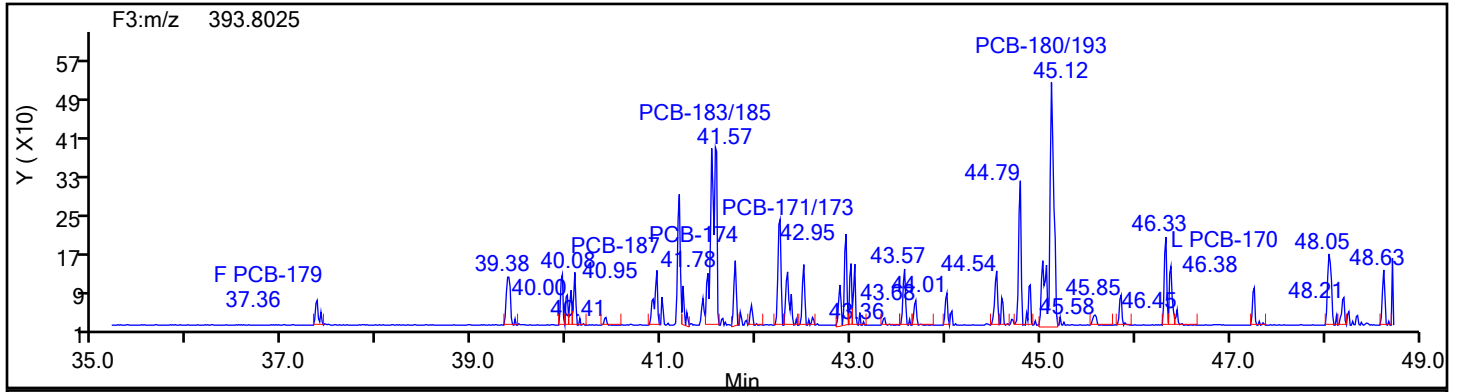
Reviewer: Q9DB, 11-Jun-2024 19:45:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

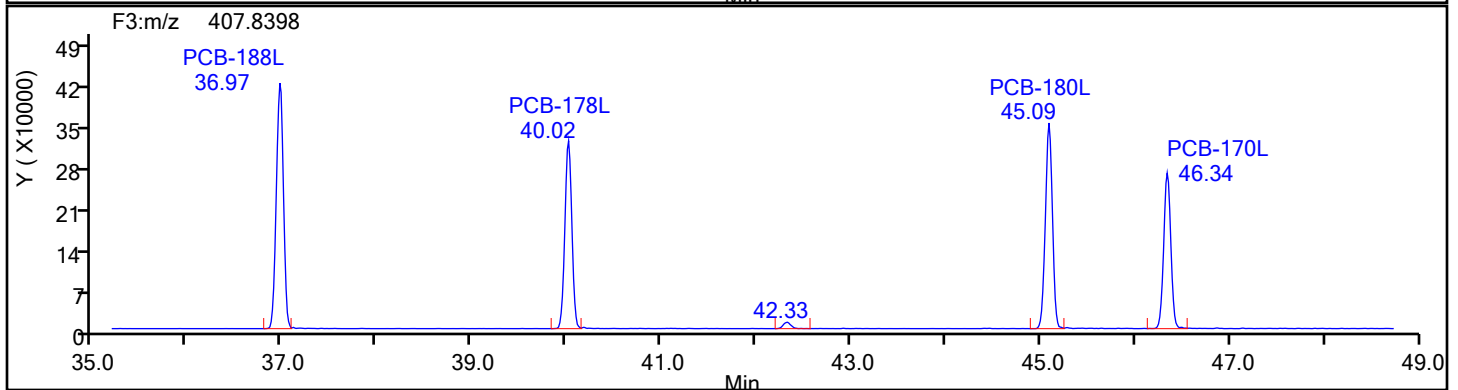
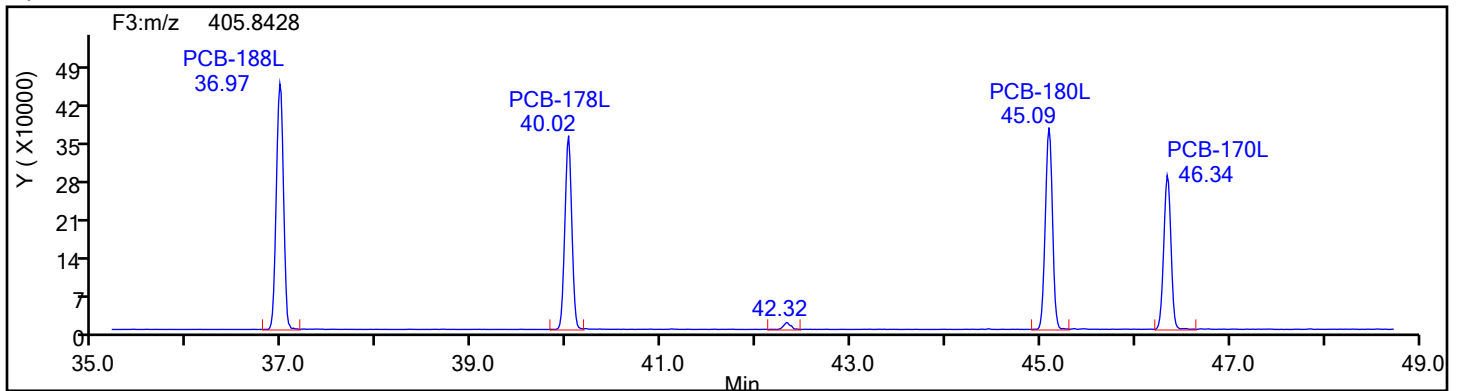
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

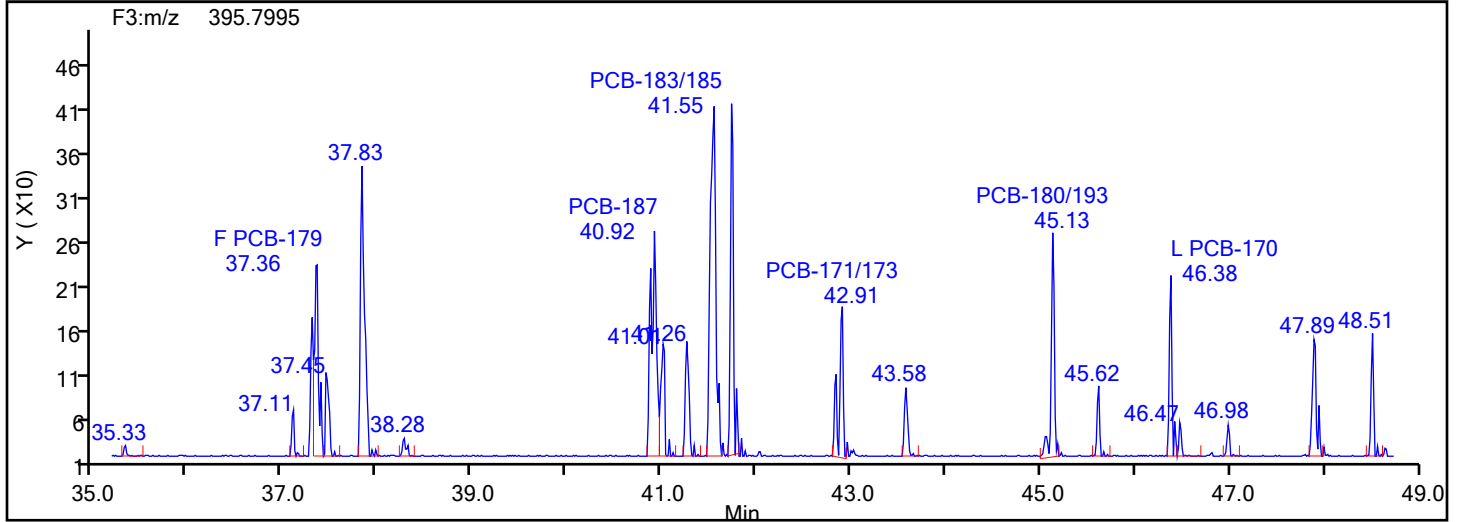
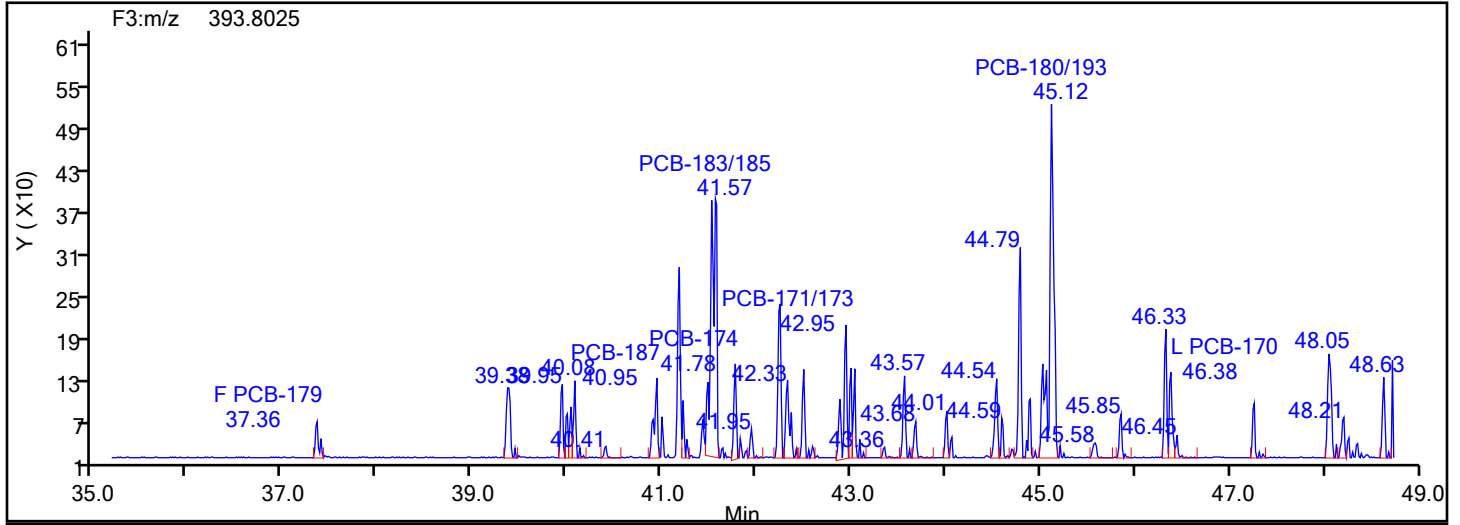


HpPCB F3 Standards

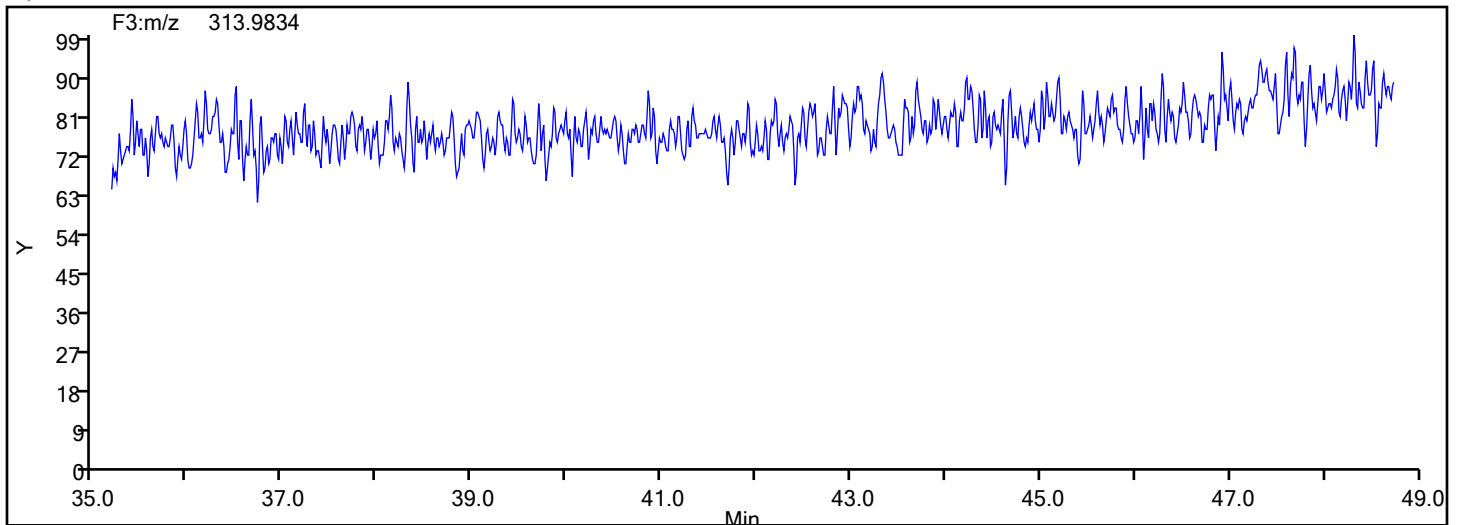


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

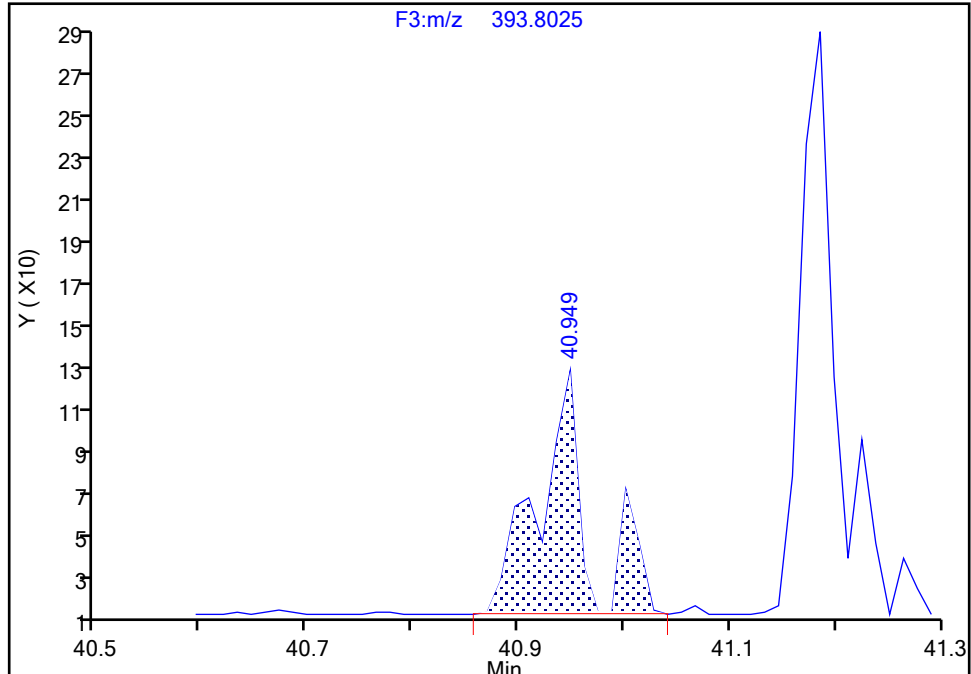
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Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-187, CAS: 52663-68-0

Signal: 1

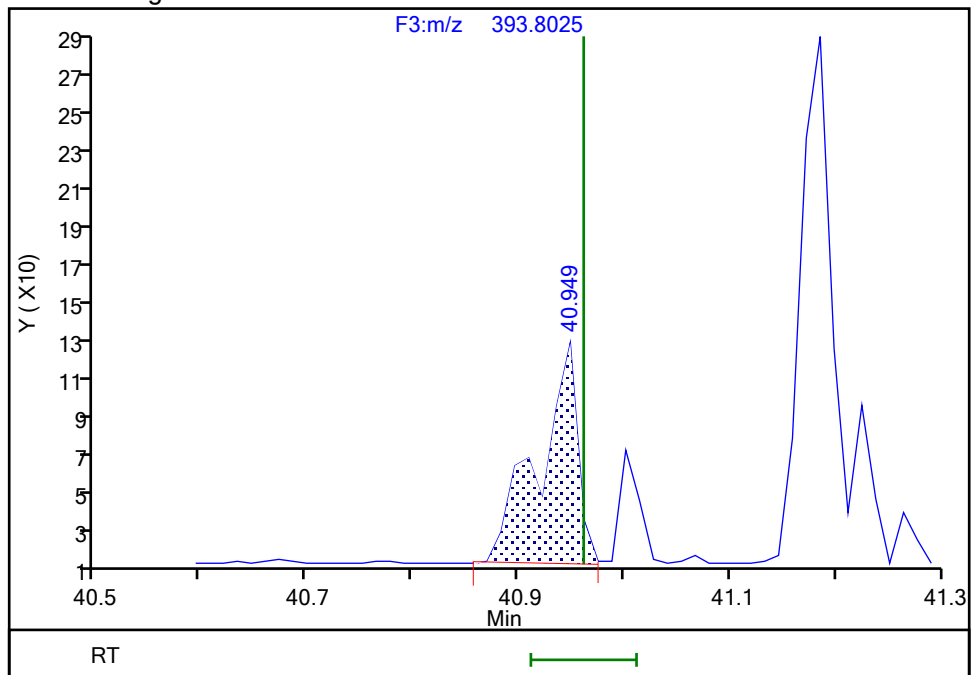
RT: 40.95
Area: 364
Amount: 0.033888
Amount Units: pg/ul

Processing Integration Results



RT: 40.95
Area: 287
Amount: 0.032037
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 19:46:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

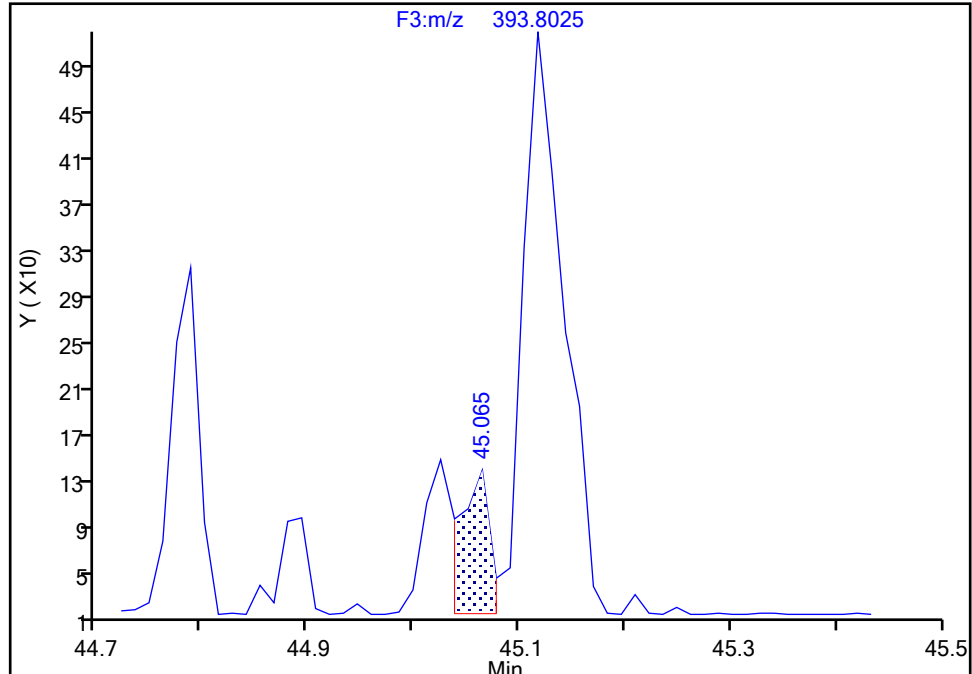
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Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-180/193, CAS: STL01824

Signal: 1

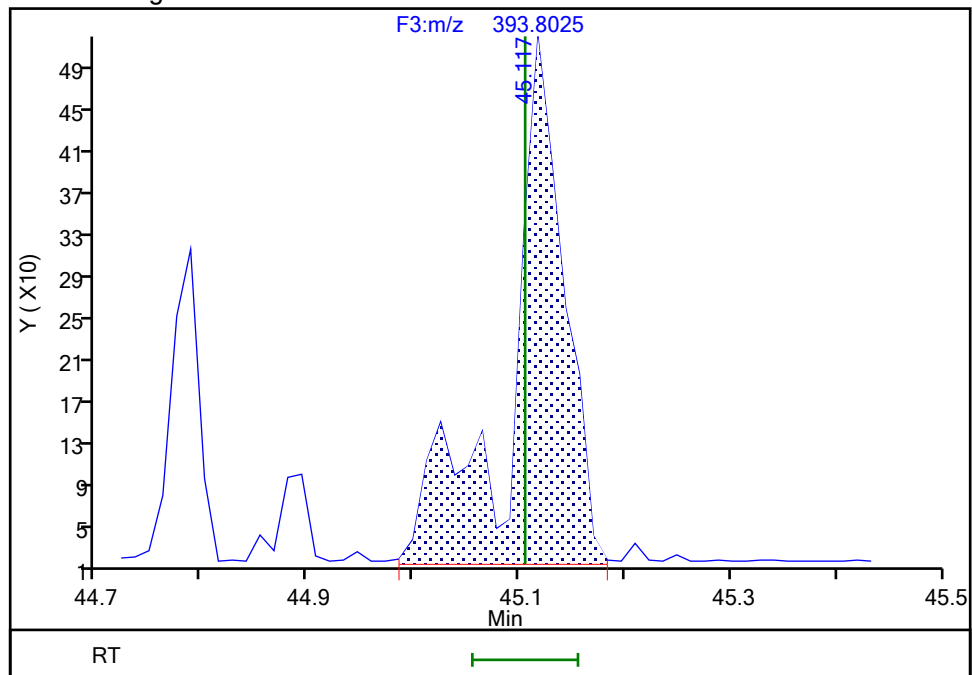
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Area: 214
Amount: 0.006196
Amount Units: pg/ul

Processing Integration Results



RT: 45.12
Area: 1806
Amount: 0.054858
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 19:47:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

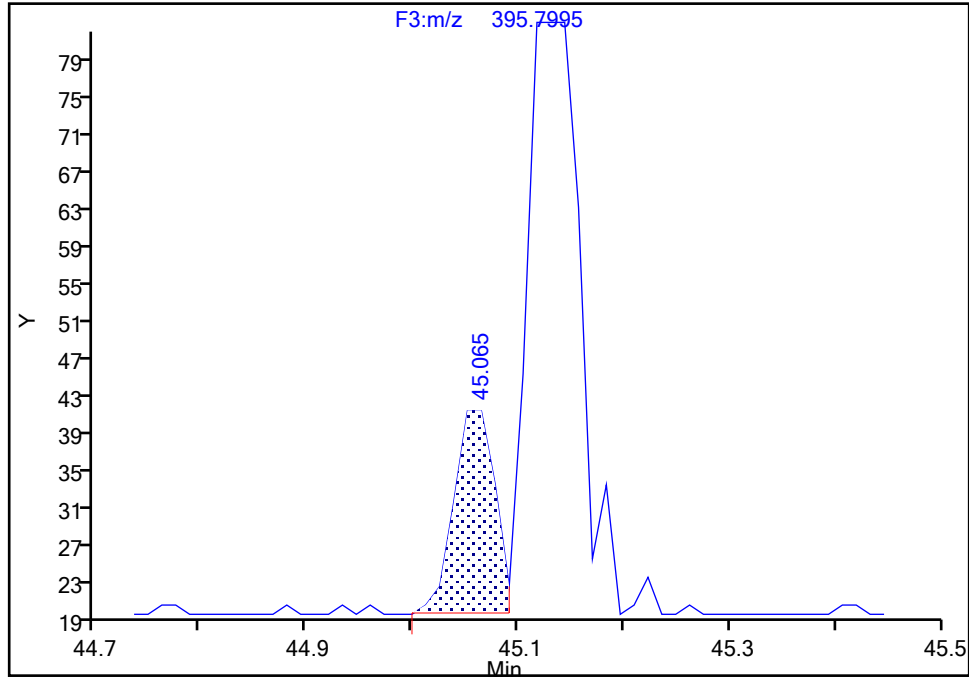
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Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-180/193, CAS: STL01824

Signal: 2

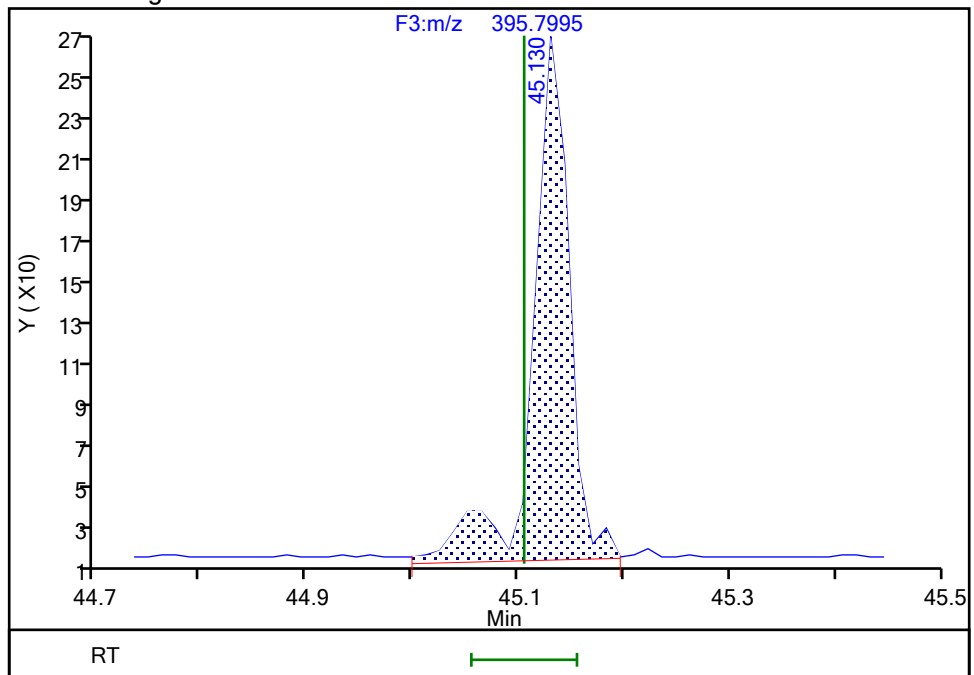
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Amount: 0.006196
Amount Units: pg/ul

Processing Integration Results



RT: 45.13
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Amount: 0.054858
Amount Units: pg/ul

Manual Integration Results



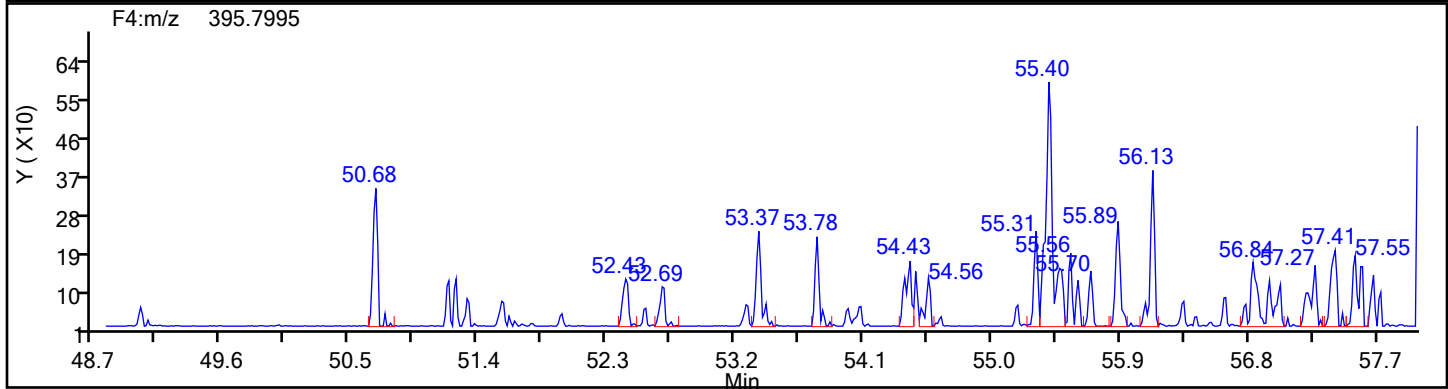
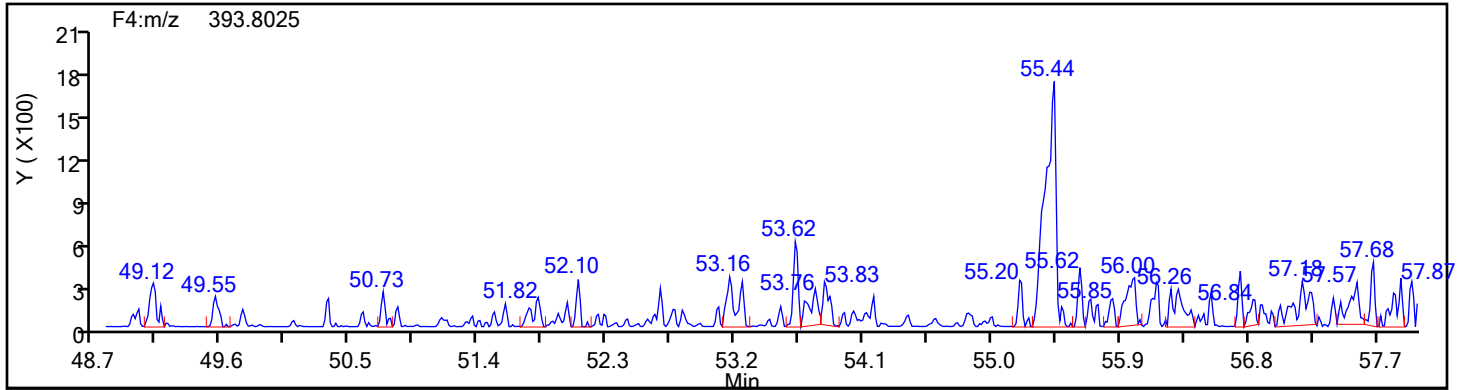
Reviewer: Q9DB, 11-Jun-2024 19:47:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

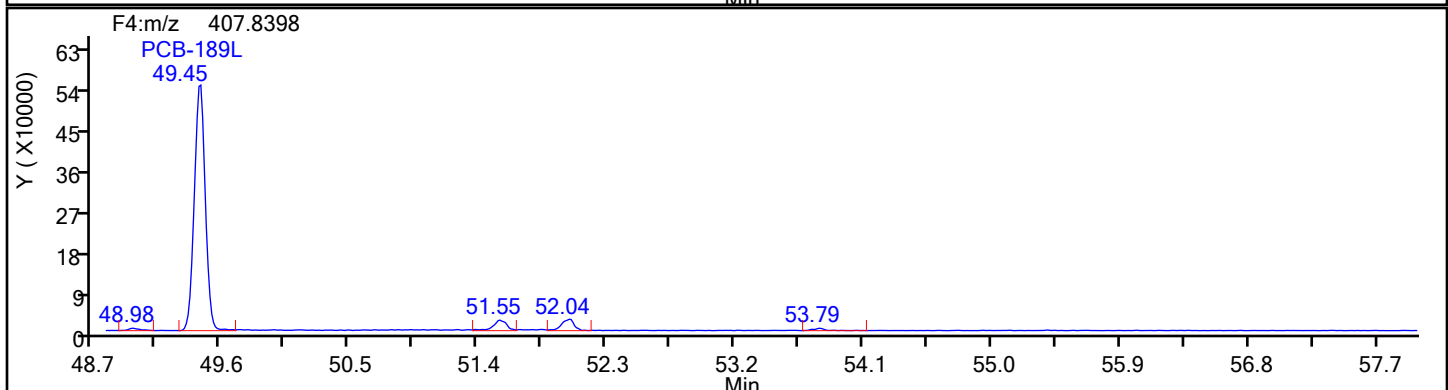
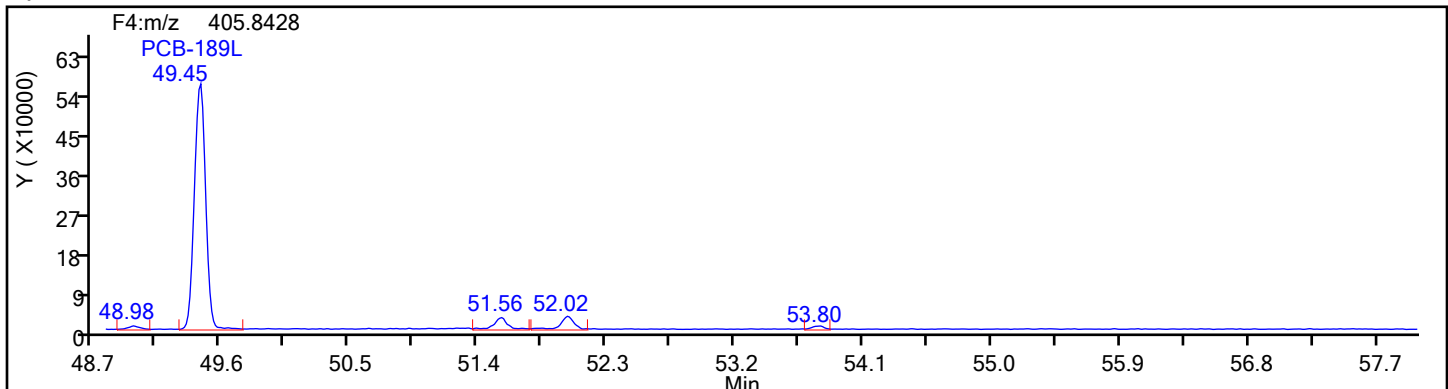
Audit Reason: Baseline

Eurofins Knoxville

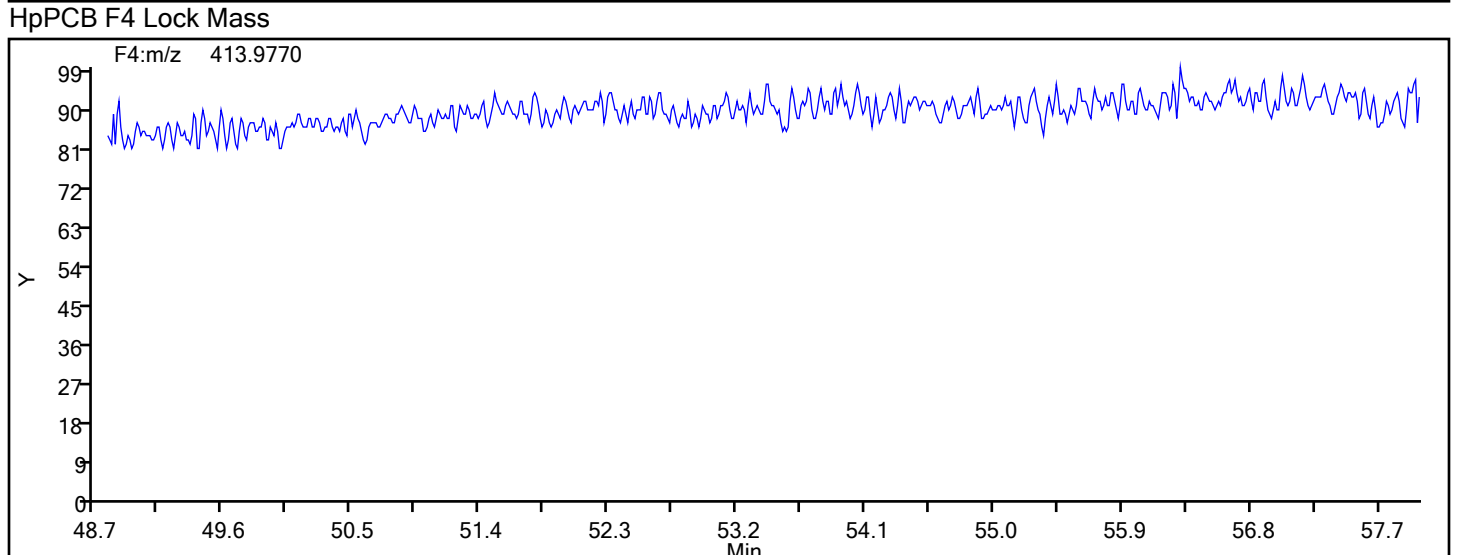
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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4



HpPCB F4 Standards

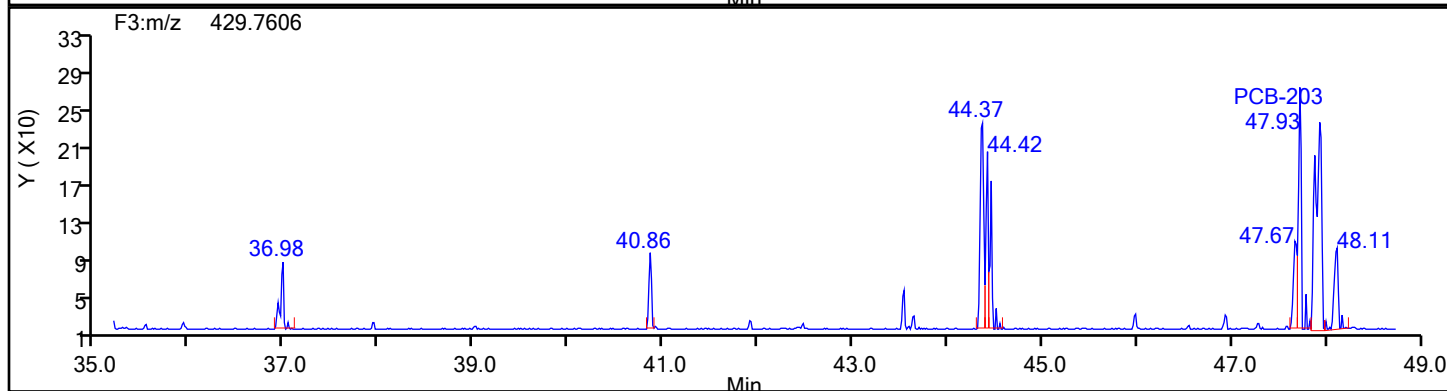
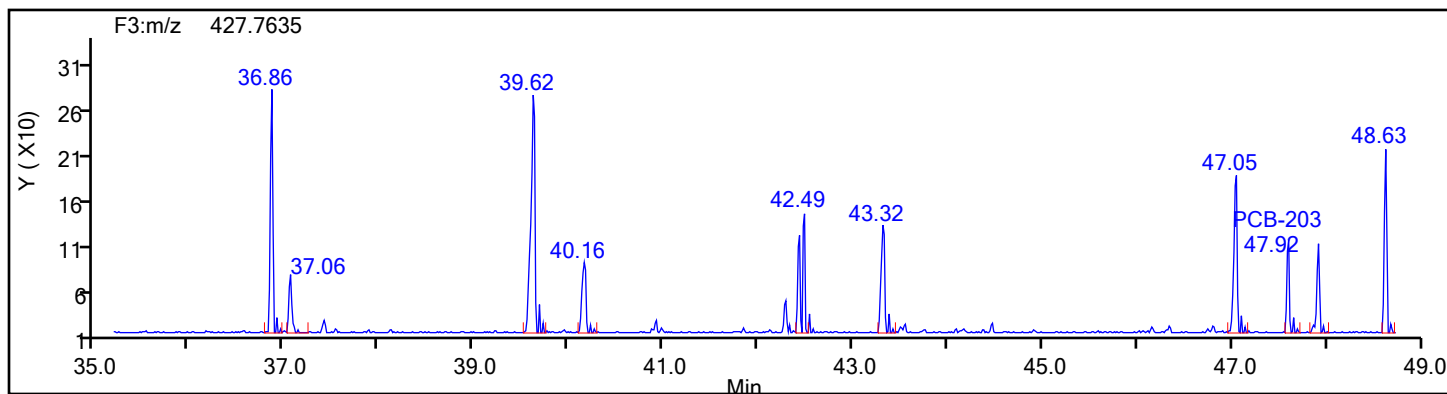


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Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23-NO.3 BOILER-RUN 3 COMBINED		
Worklist#:	87502	Sample Line#:	11
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
HpPCB F4			

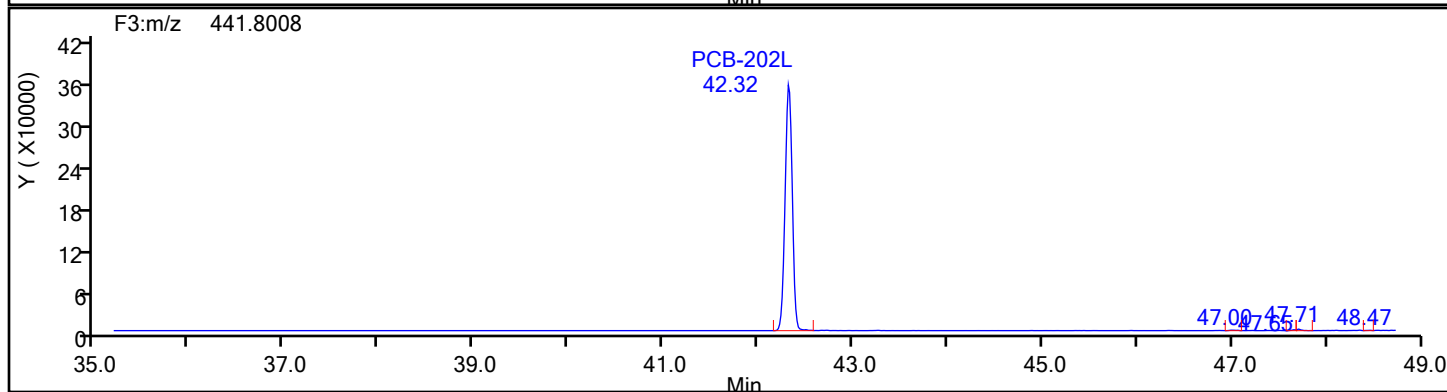
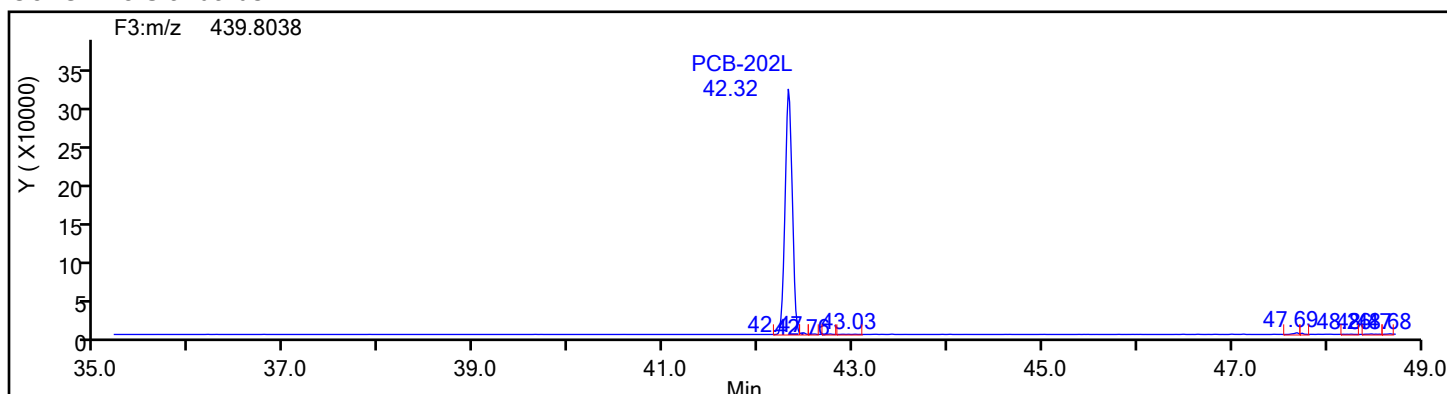


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

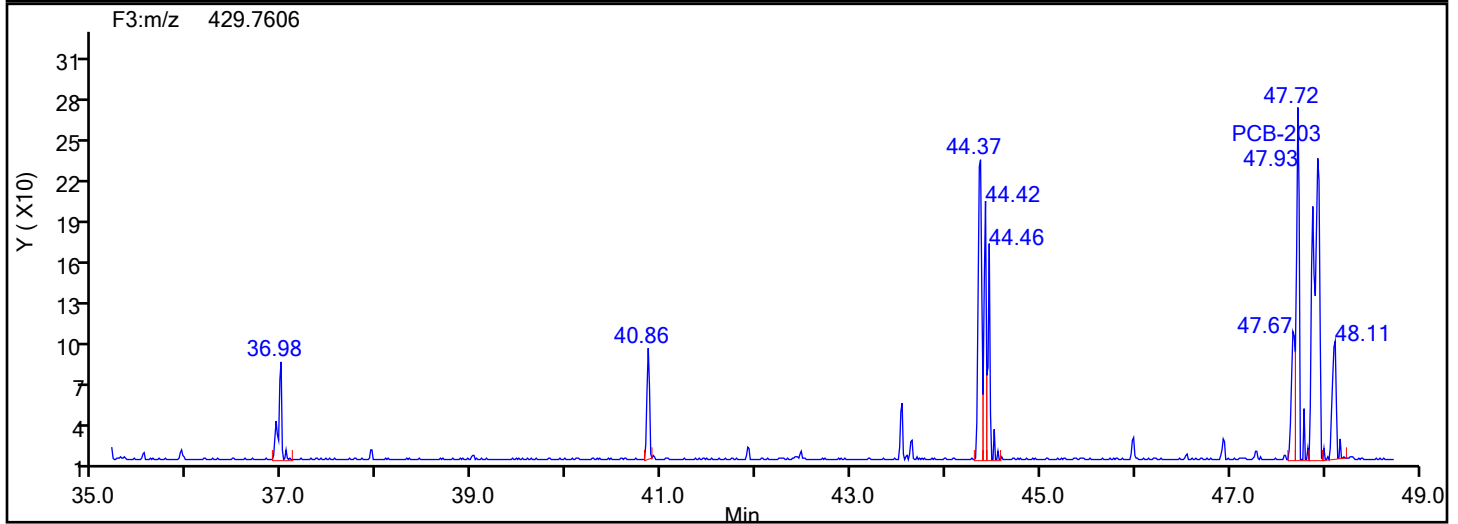
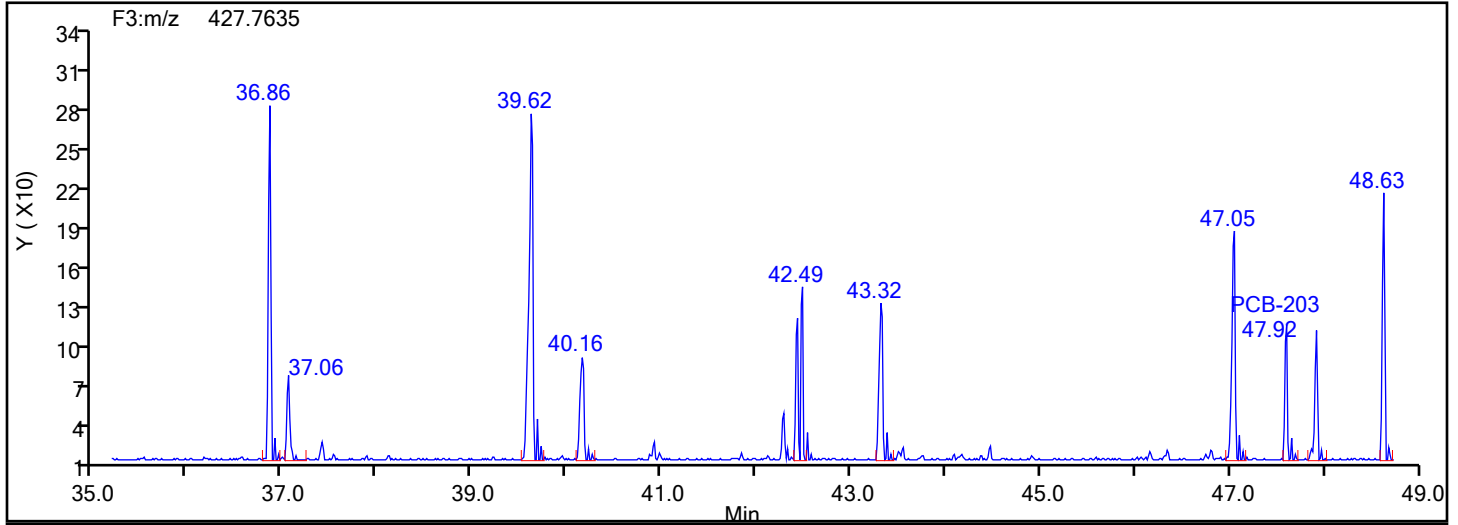


OcPCB F3 Standards

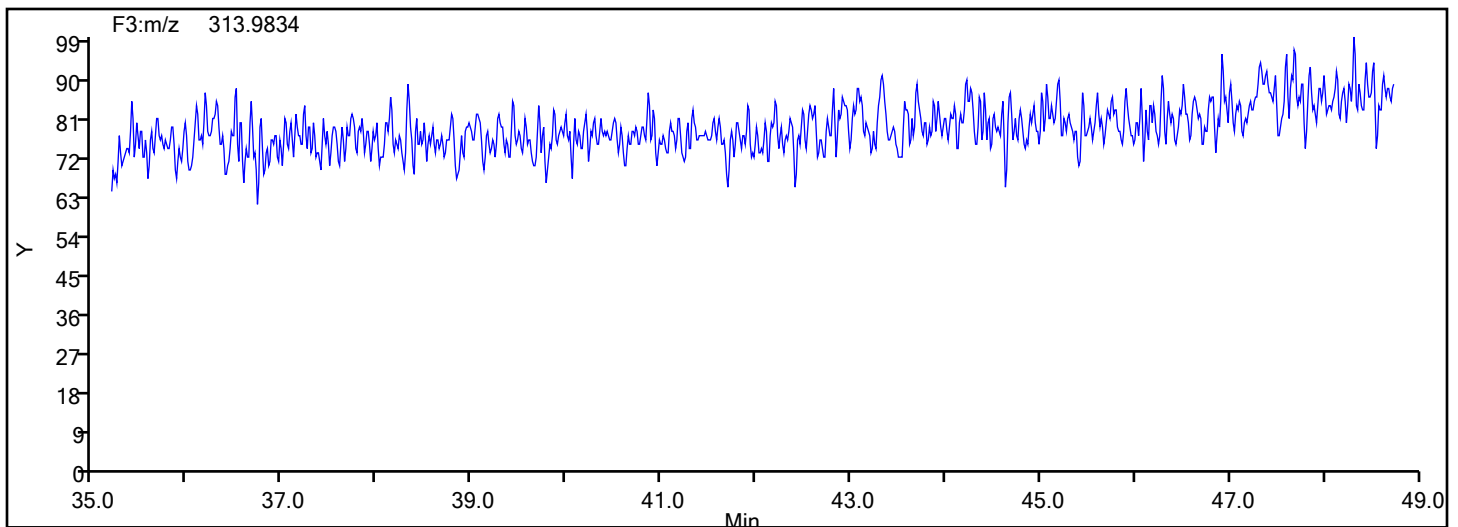


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

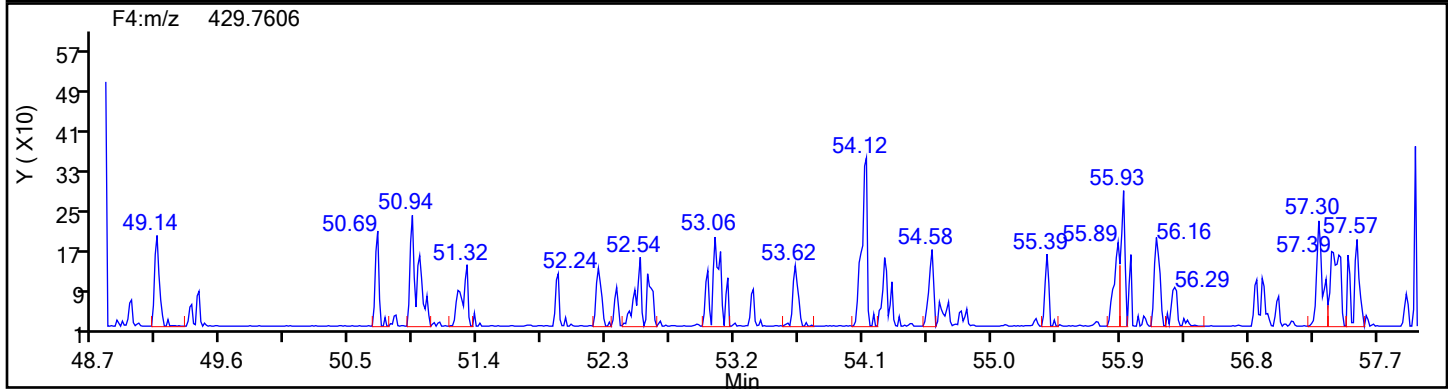
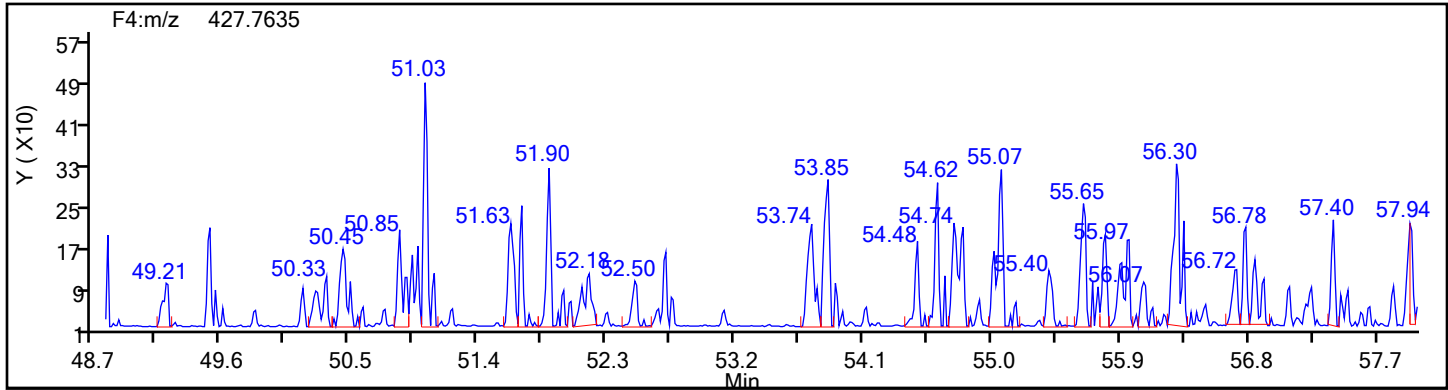


OcPCB F3 Lock Mass

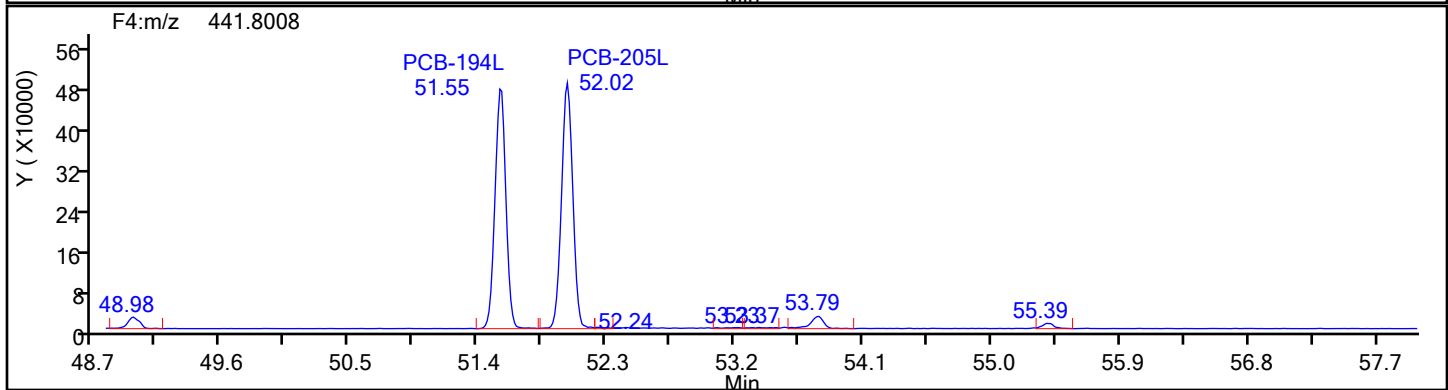
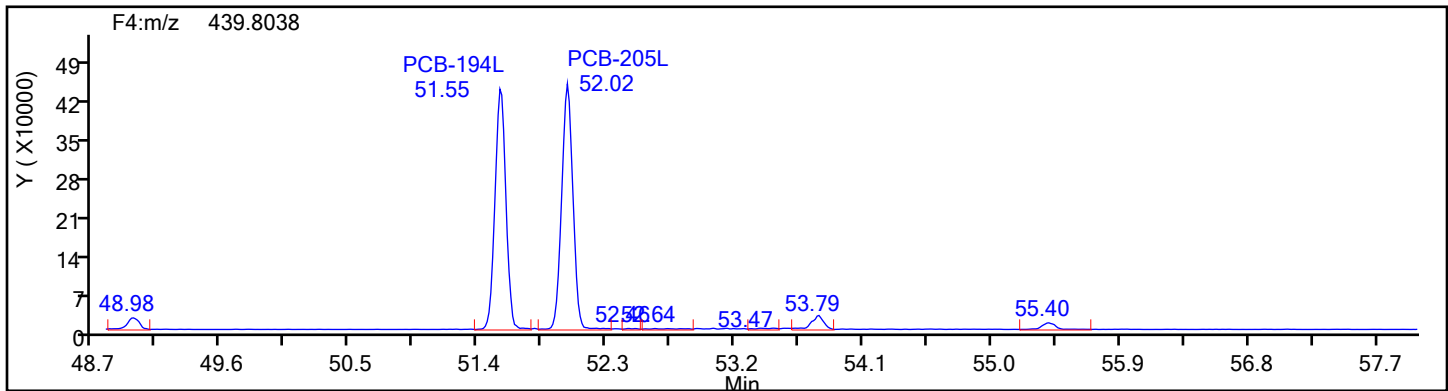


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

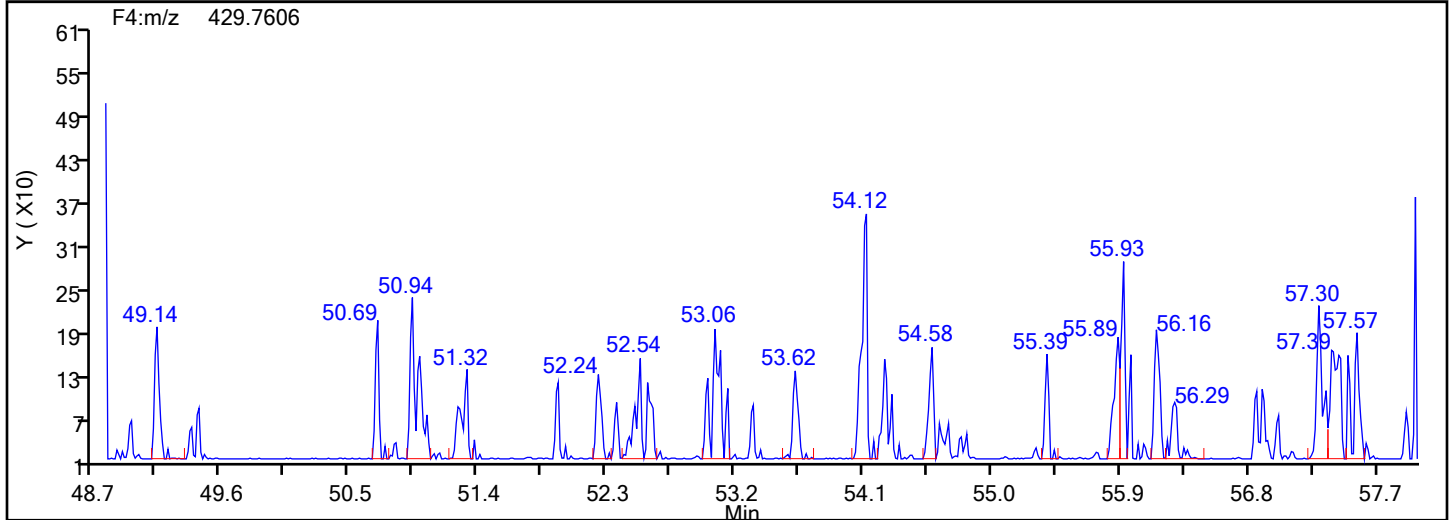
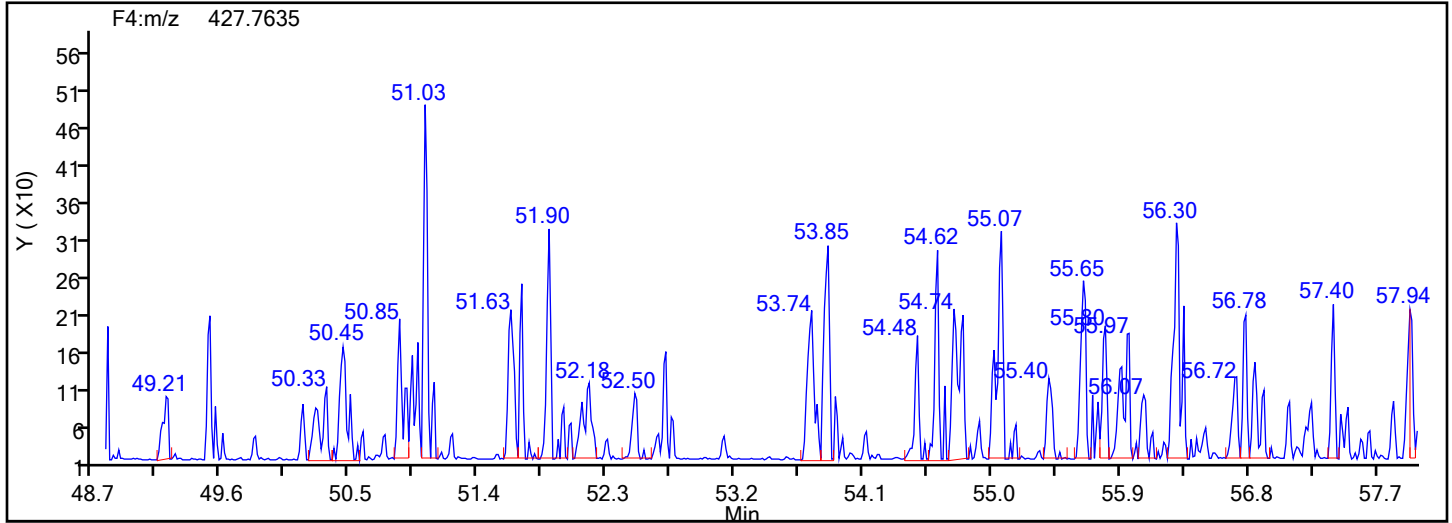


OcPCB F4 Standards

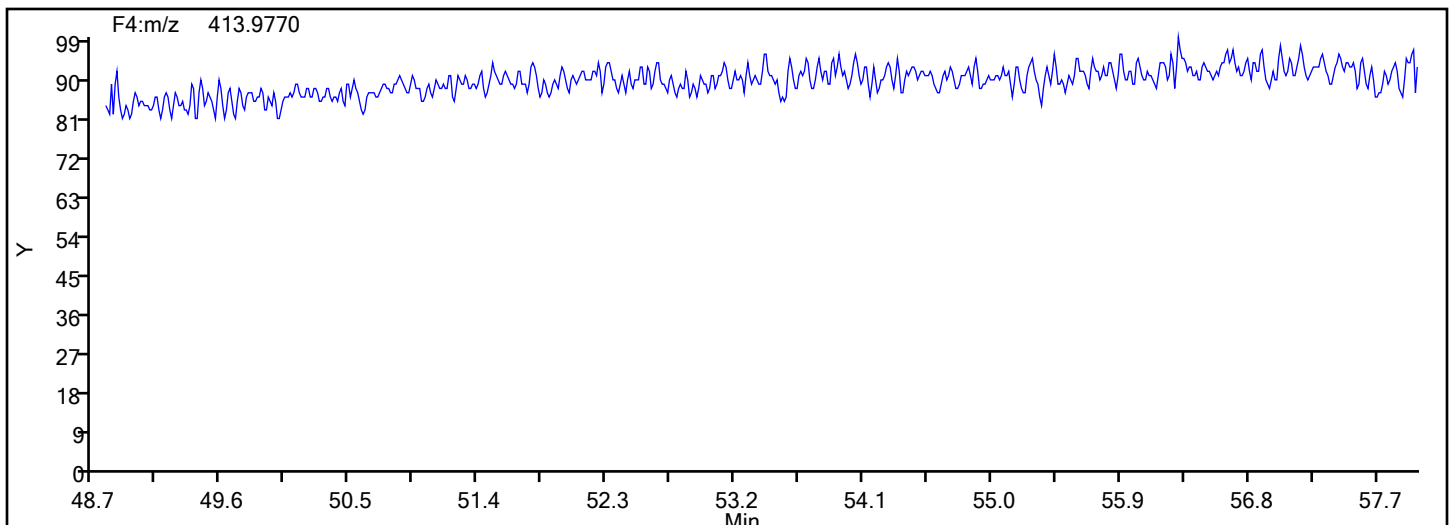


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

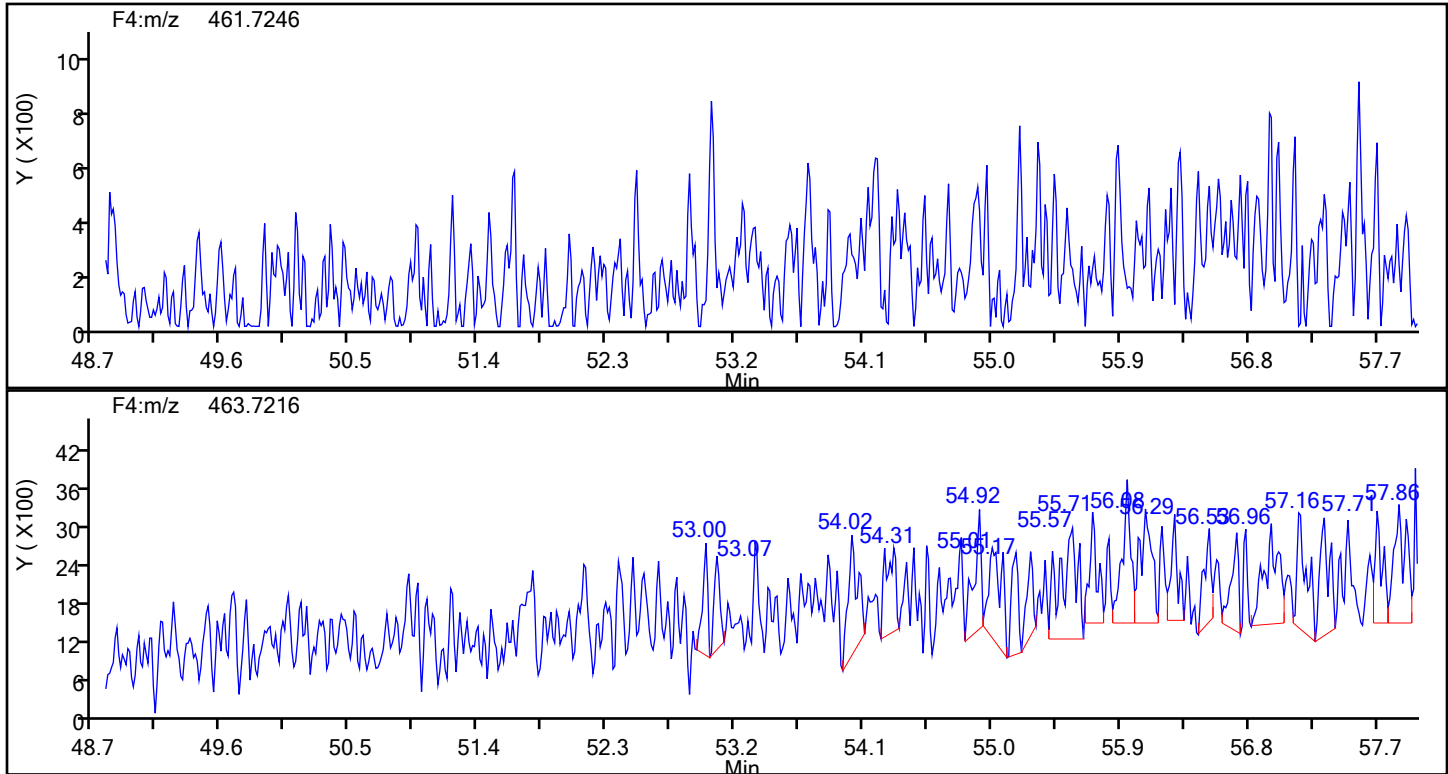


OcPCB F4 Lock Mass

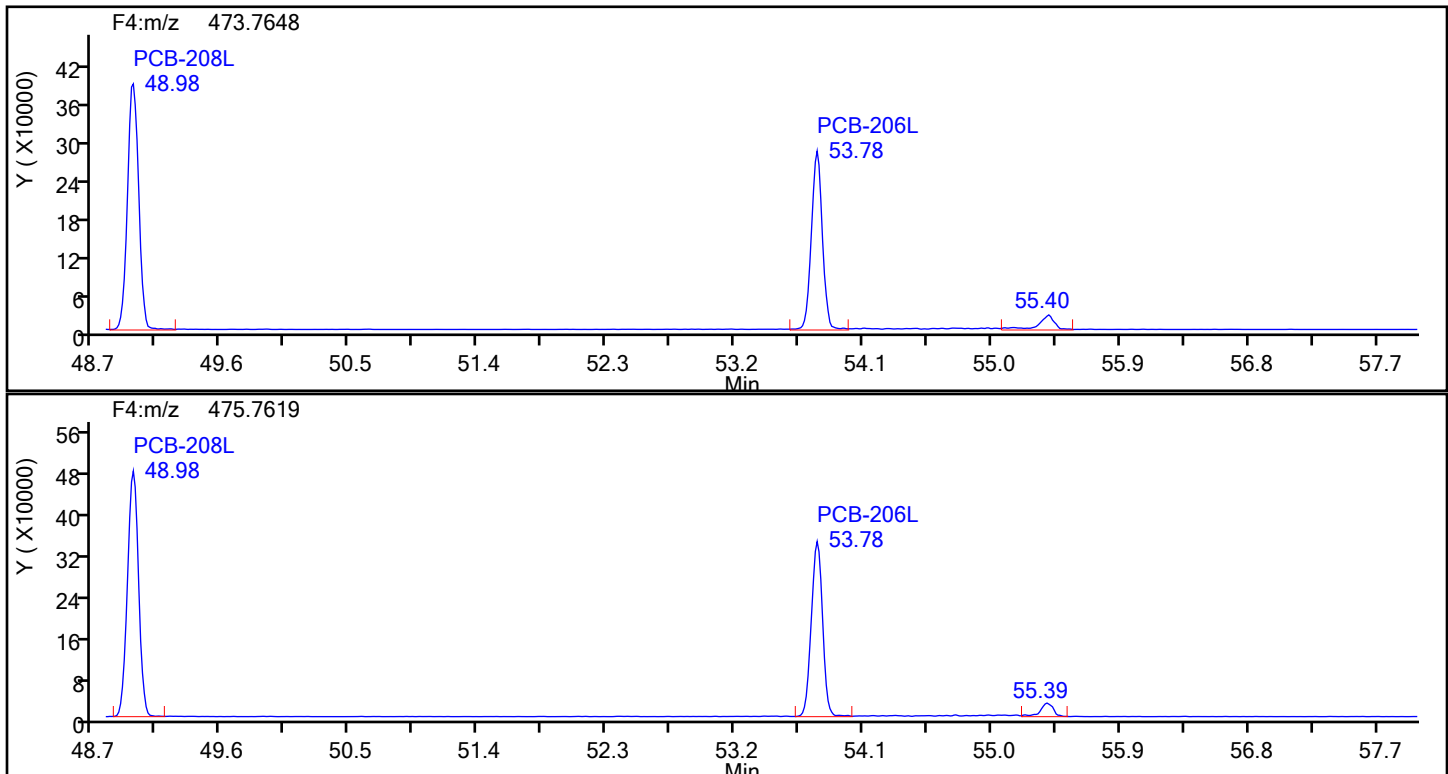


Eurofins Knoxville

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Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

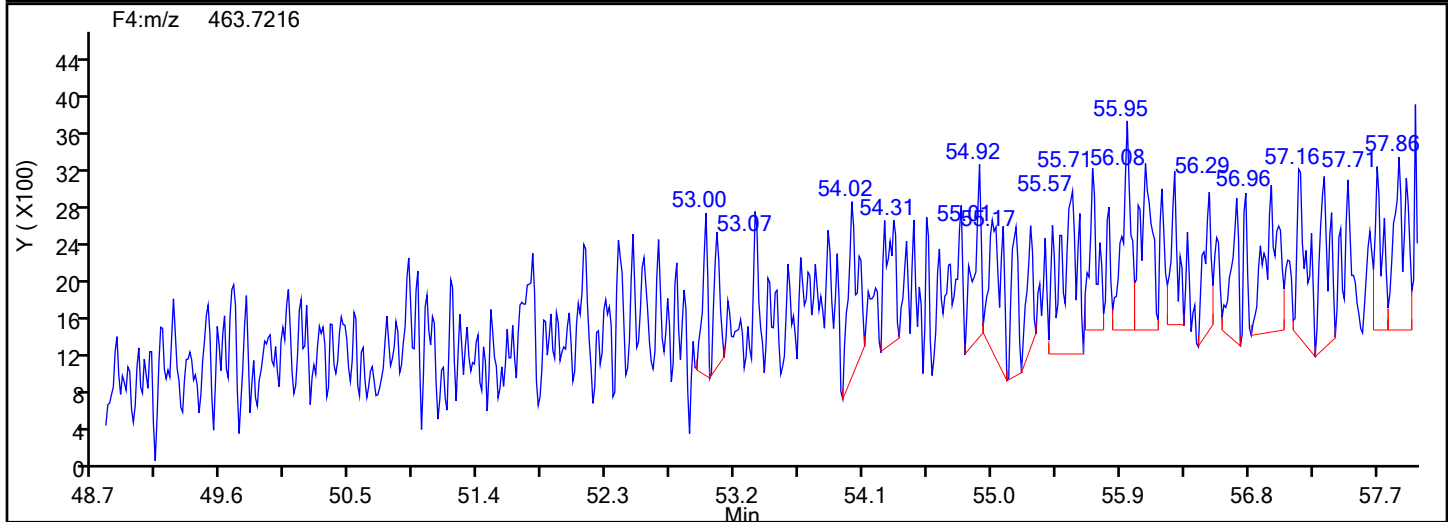
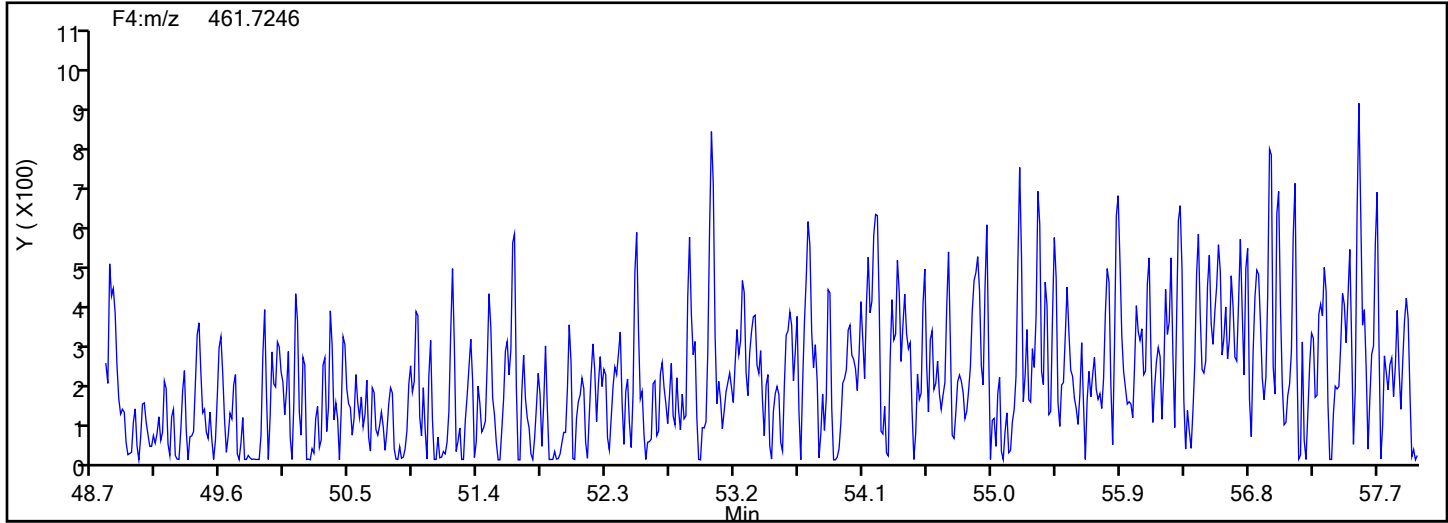


NoPCB F4 Standards

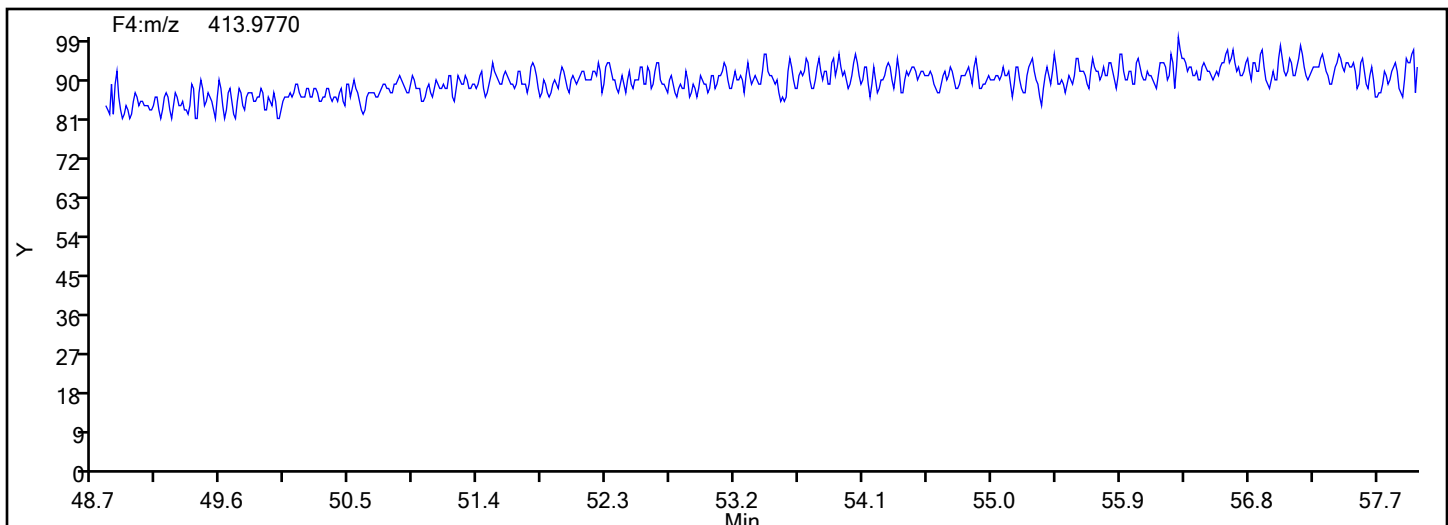


Eurofins Knoxville

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Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

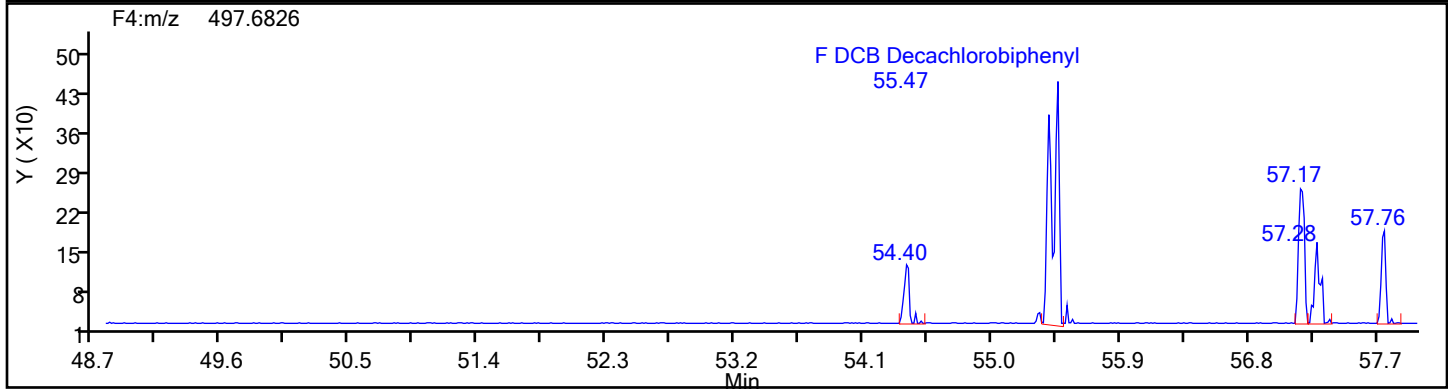
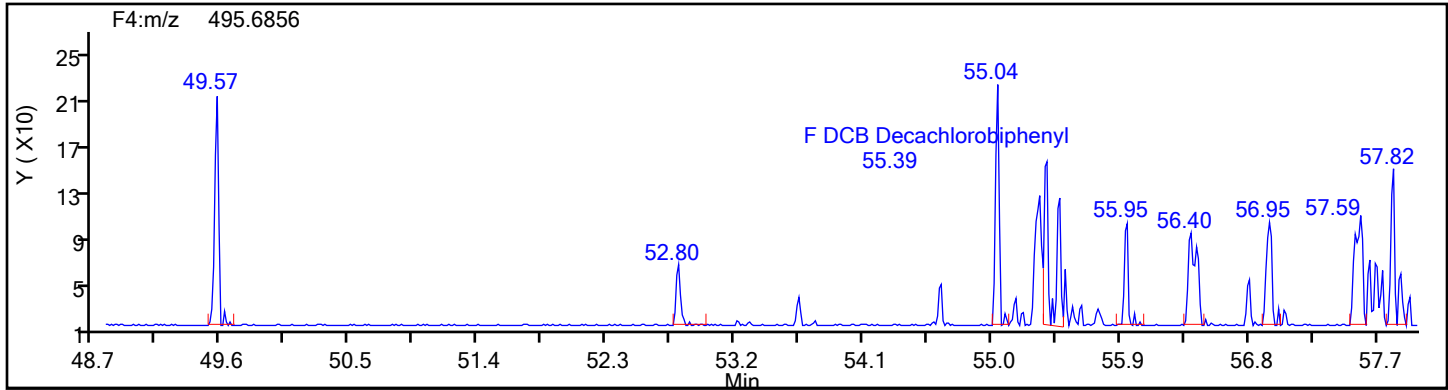


NoPCB F4 Lock Mass

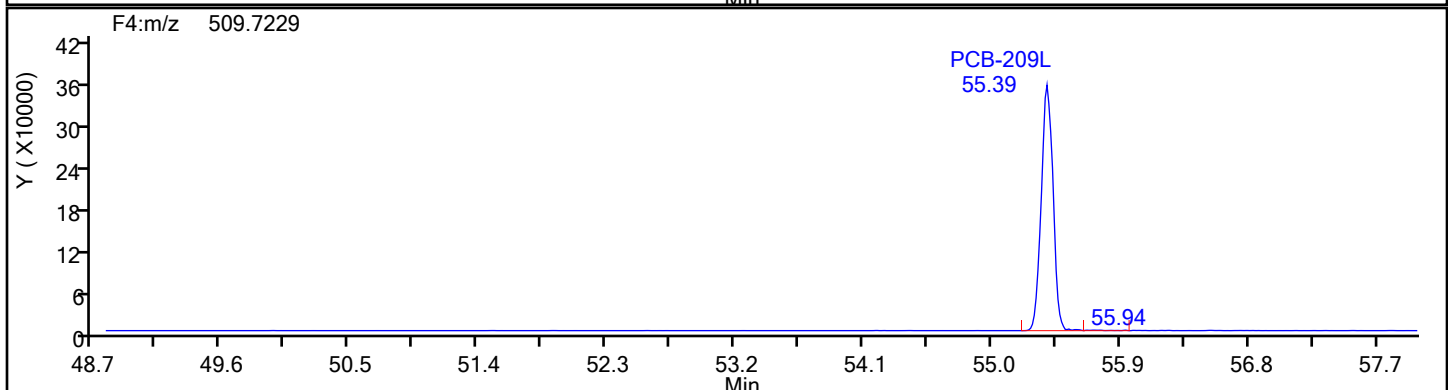
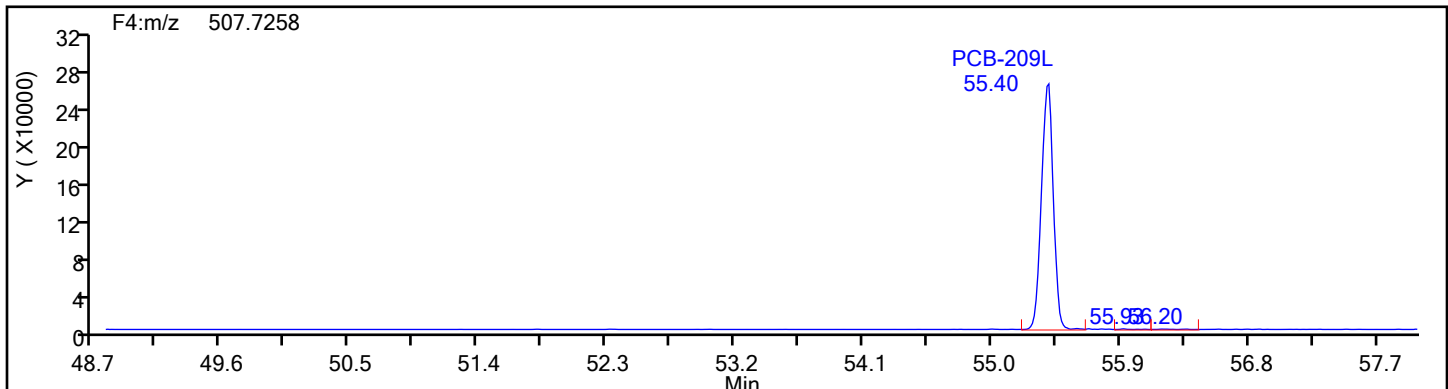


Eurofins Knoxville

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Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

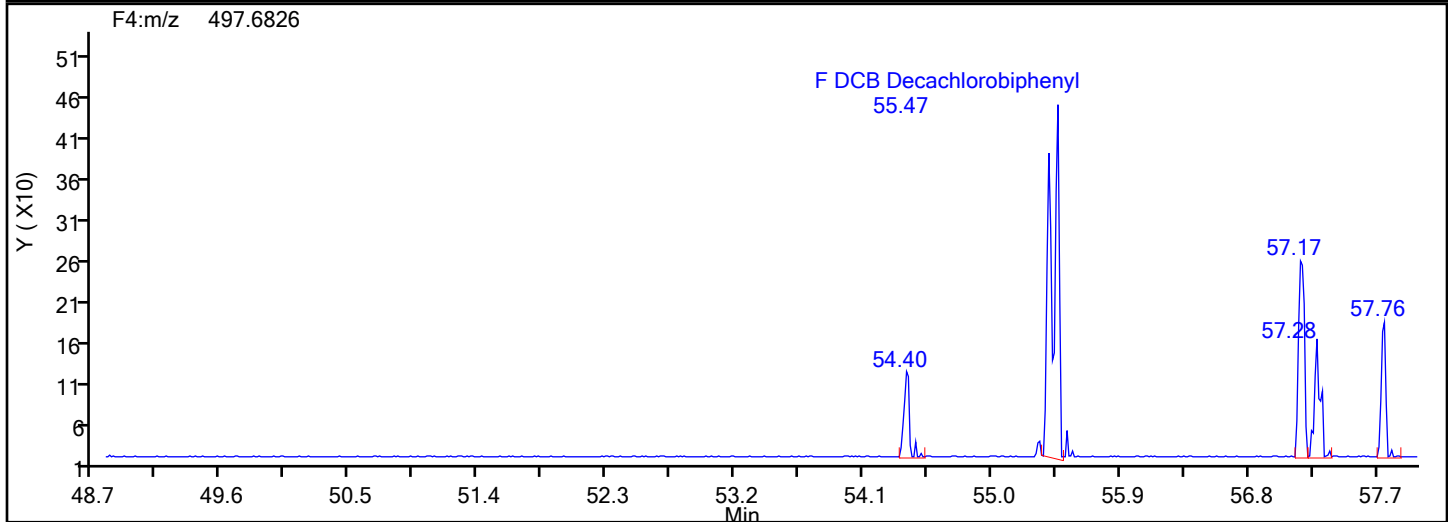
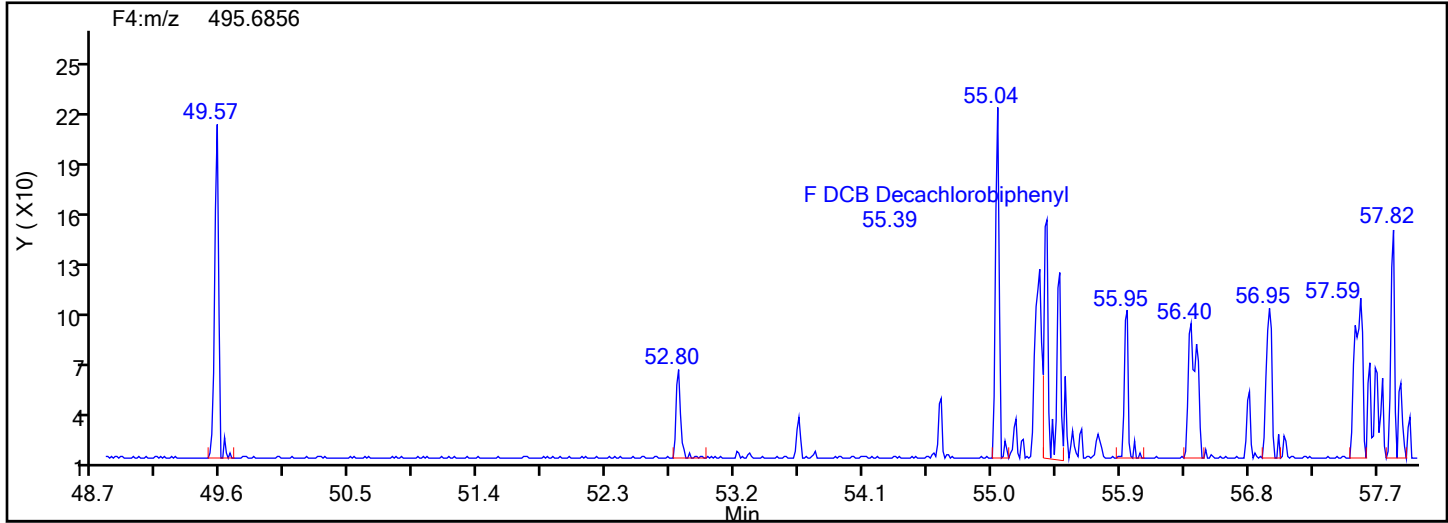


DePCB F4 Standards

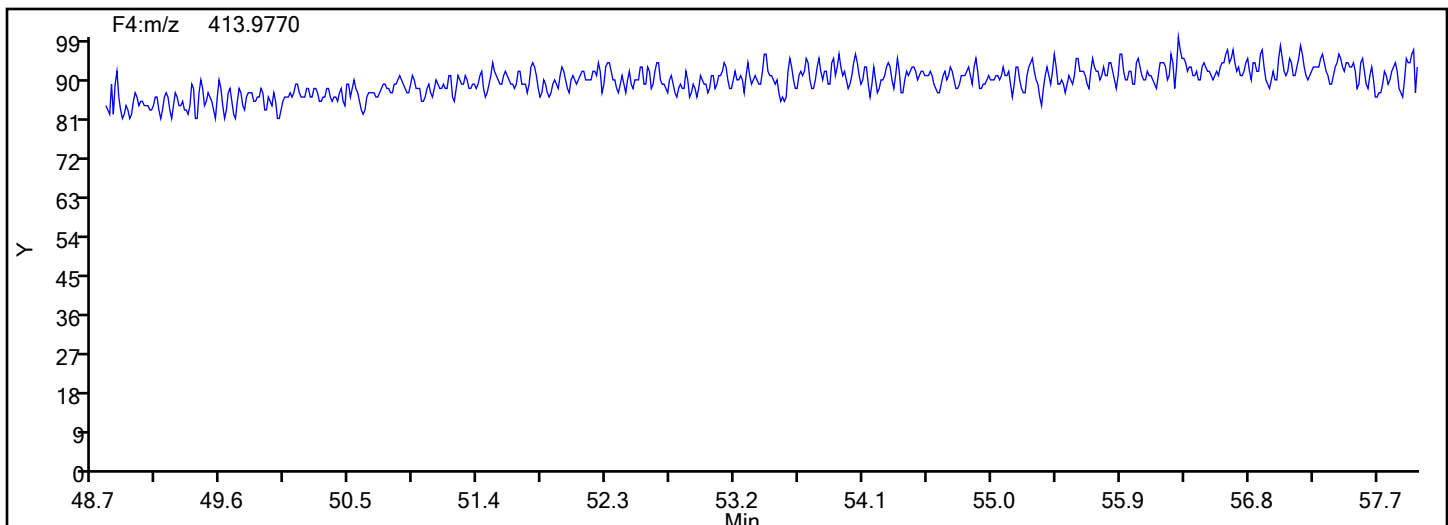


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Injection Date: 11-Jun-2024 18:07:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Worklist#: 87502 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville

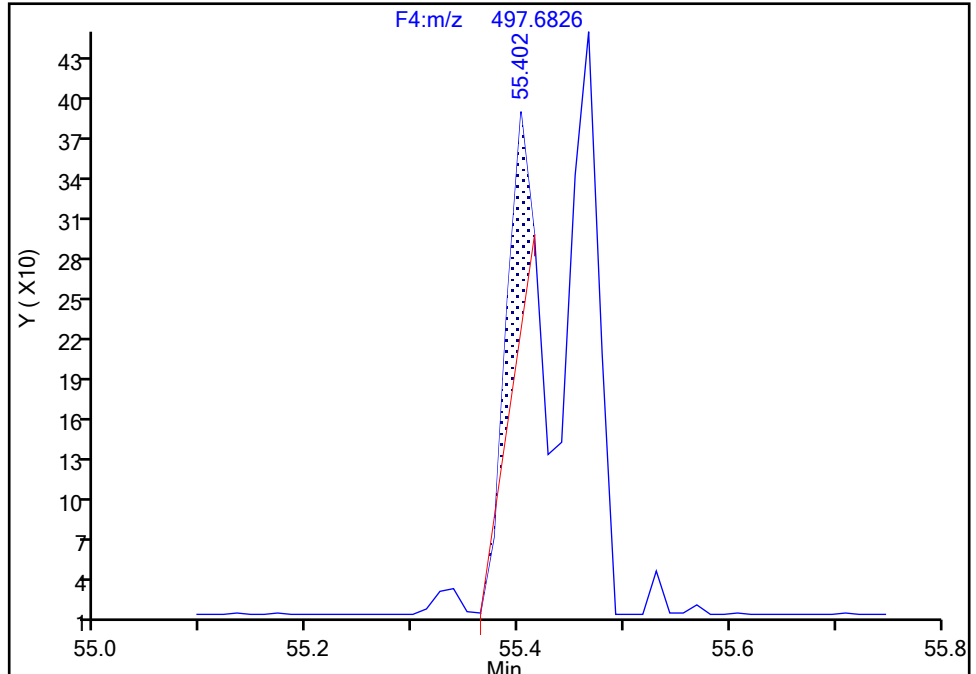
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

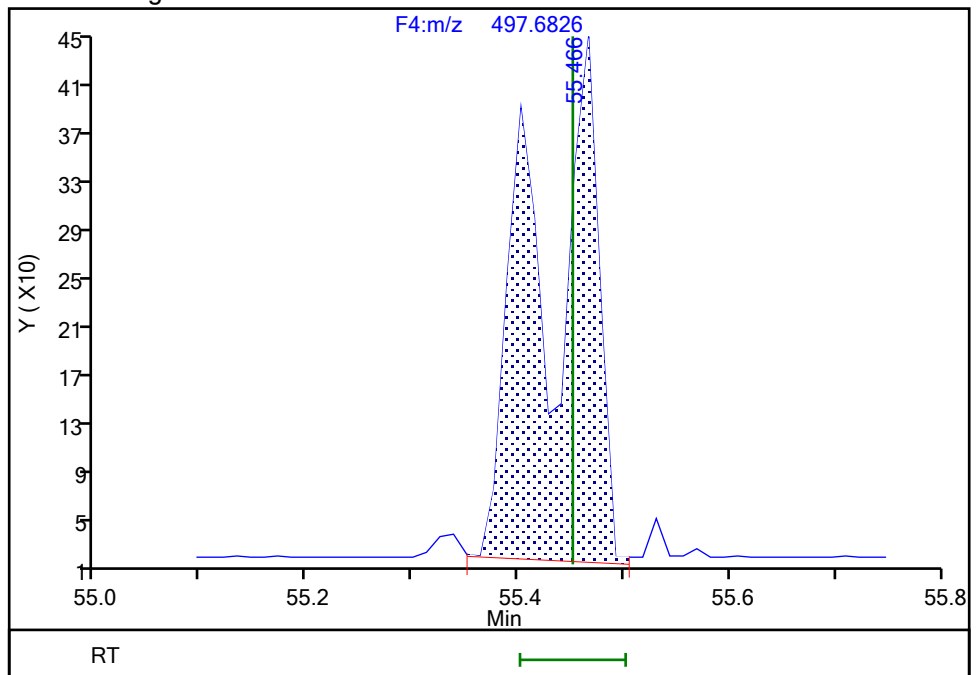
RT: 55.40
Area: 185
Amount: 0.020225
Amount Units: pg/ul

Processing Integration Results



RT: 55.47
Area: 1657
Amount: 0.054189
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 19:48:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

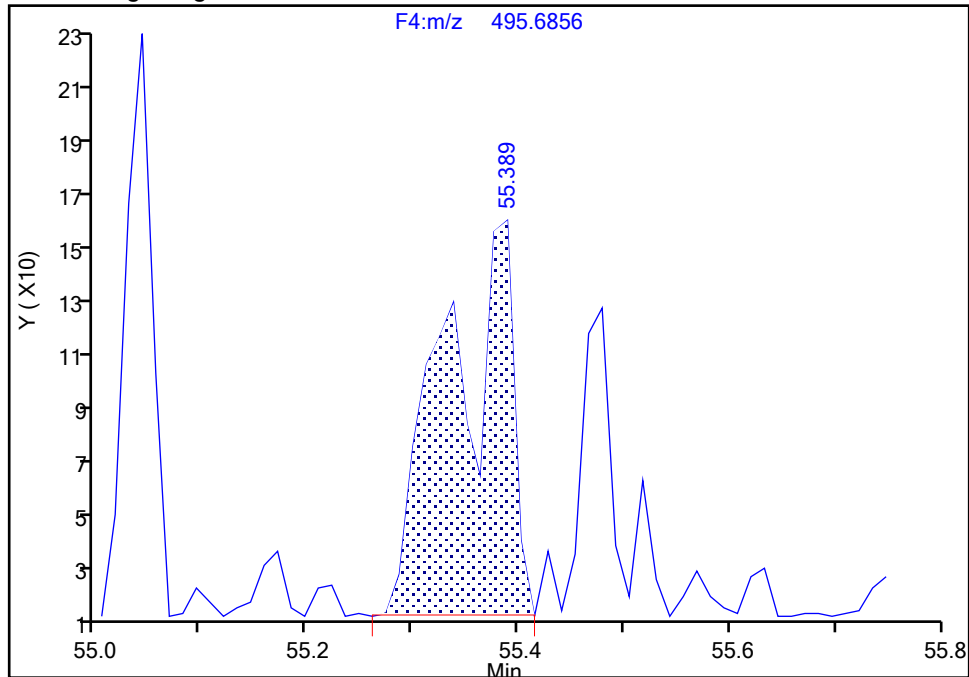
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Injection Date: 11-Jun-2024 18:07:00 Instrument ID: D2D
Lims ID: 140-36689-A-3-C Lab Sample ID: 140-36689-3
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

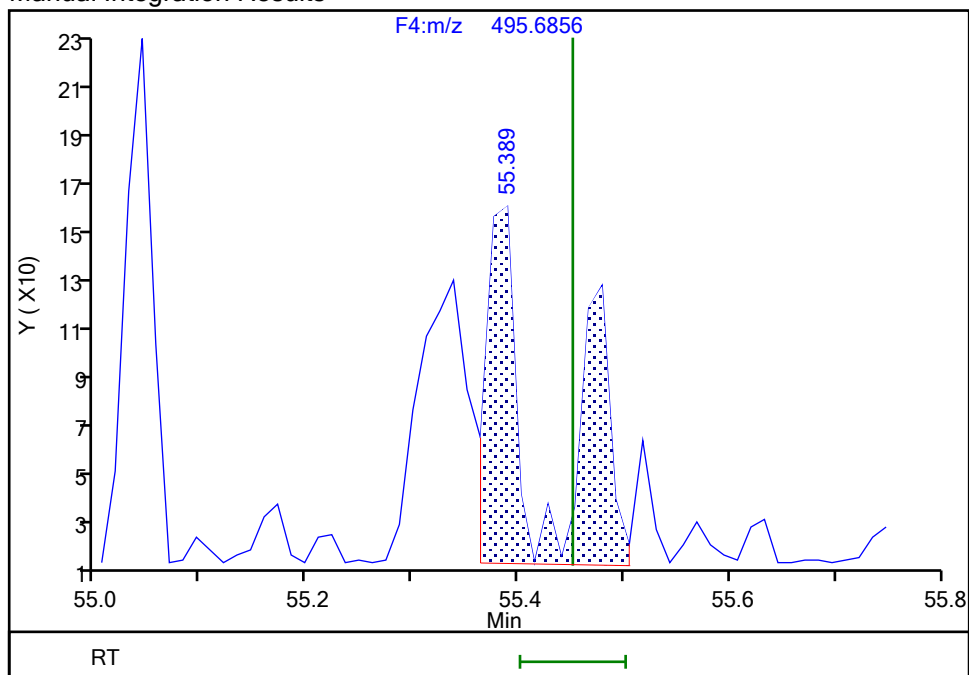
RT: 55.39
Area: 610
Amount: 0.020225
Amount Units: pg/ul

Processing Integration Results



RT: 55.39
Area: 473
Amount: 0.054189
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 19:48:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-0122602
9/6/2024
2:43:26 PM

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-3-c.d
Lims ID: 140-36689-A-3-C
Client ID: M23-NO.3 BOILER-RUN 3 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 18:07:00 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-011
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 09:39:18 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 09:39:18

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	30.1	90.31
PCB-28L	100.0	79.4	79.35
PCB-79L	33.3	34.7	104.21
PCB-95L	33.3	35.8	107.35
PCB-111L	100.0	86.5	86.49
PCB-153L	33.3	32.5	97.42
PCB-178L	100.0	88.8	88.84

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 4</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-4-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/08/2024 19:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/11/2024 19:08</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	1.68	S	0.600	0.132	0.0261
37680-65-2	PCB-18	0.752	S C B	0.600	0.285	0.0219
7012-37-5	PCB-28	1.63	C20 B	0.600	0.252	0.0143
41464-39-5	PCB-44	4.35	C	0.900	0.390	0.0268
35693-99-3	PCB-52	1.70		0.300	0.132	0.0284
32598-10-0	PCB-66	0.378	q	0.300	0.120	0.0207
32598-13-3	PCB-77	0.0573	J q	0.300	0.126	0.0235
70362-50-4	PCB-81	ND		0.300	0.0960	0.0248
37680-73-2	PCB-101	2.75	C90	0.900	0.390	0.0175
32598-14-4	PCB-105	1.55		0.300	0.102	0.0207
74472-37-0	PCB-114	0.111	J	0.300	0.165	0.0215
31508-00-6	PCB-118	3.95	B	0.300	0.183	0.0189
65510-44-3	PCB-123	0.0705	J	0.300	0.171	0.0218
57465-28-8	PCB-126	ND		0.300	0.123	0.0231
38380-07-3	PCB-128	0.574	J q C	0.600	0.204	0.0111
35065-28-2	PCB-138	4.72	C129	1.20	0.510	0.0115
35065-27-1	PCB-153	3.25	C B	0.600	0.249	0.00999
38380-08-4	PCB-156	0.238	J C	0.600	0.255	0.0121
69782-90-7	PCB-157	0.238	J C156	0.600	0.255	0.0121
52663-72-6	PCB-167	0.0871	J q	0.300	0.180	0.00813
32774-16-6	PCB-169	ND		0.300	0.123	0.00805
35065-30-6	PCB-170	0.0752	J q	0.300	0.132	0.000242
35065-29-3	PCB-180	0.174	J C	0.600	0.204	0.000188
52663-68-0	PCB-187	0.132	J q	0.300	0.126	0.000199
39635-31-9	PCB-189	ND		0.300	0.147	0.00281
52663-78-2	PCB-195	ND		0.300	0.159	0.00143
40186-72-9	PCB-206	ND		0.300	0.171	0.0416
2051-24-3	PCB-209	0.0250	J q B	0.300	0.138	0.00139

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 4</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-4-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/08/2024 19:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/11/2024 19:08</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	48		20-145
208263-77-8	PCB-3L	56		20-145
234432-86-1	PCB-4L	59		20-145
208263-67-6	PCB-15L	34	S	20-145
234432-87-2	PCB-19L	63	S	20-145
208263-79-0	PCB-37L	74		20-145
234432-88-3	PCB-54L	69		20-145
105600-23-5	PCB-77L	77		20-145
208461-24-9	PCB-81L	76		20-145
234432-89-4	PCB-104L	89		20-145
208263-62-1	PCB-105L	90		20-145
208263-63-2	PCB-114L	90		20-145
104130-40-7	PCB-118L	91		20-145
208263-64-3	PCB-123L	91		20-145
208263-65-4	PCB-126L	89		20-145
234432-90-7	PCB-155L	90		20-145
208263-68-7	PCB-156L	86	C	20-145
235416-30-5	PCB-157L	86	C156	20-145
208263-69-8	PCB-167L	85		20-145
208263-70-1	PCB-169L	84		20-145
160901-80-4	PCB-170L	92		20-145
234432-91-8	PCB-188L	91		20-145
208263-73-4	PCB-189L	82		20-145
105600-26-8	PCB-202L	91		20-145
234446-64-1	PCB-205L	89		20-145
208263-75-6	PCB-206L	99		20-145
234432-92-9	PCB-208L	97		20-145
105600-27-9	PCB-209L	110		20-145

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Client Sample ID: M23-NO.3 BOILER-RUN 4 Lab Sample ID: 140-36689-4
COMBINED
Matrix: Air Lab File ID: 140-36689-a-4-c.d
Analysis Method: 23 Date Collected: 05/08/2024 19:00
Extract. Method: Combined Prep Date Extracted: 05/31/2024 12:09
Sample wt/vol: 1(Sample) Date Analyzed: 06/11/2024 19:08
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 87502 Units: ng/Sample
Preparation Batch No.: 87206 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	78		20-130
235416-29-2	PCB-111L	85		20-130
232919-67-4	PCB-178L	88		20-130
STL01600	PCB-8L	95	S	70-130
STL01603	PCB-79L	106		70-130
STL01604	PCB-95L	108		70-130
STL01606	PCB-153L	101		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d
Lims ID: 140-36689-A-4-C
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 19:08:00 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-012
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 10:40:19 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 10:40:19

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					6.917	6.917	0.0571	0.0571		
D PCB-1L	11:32	5143227	3.16	1.6108	48.4	48.4	0.5069	0.5069	48.36	
D PCB-3L	13:41	5838600	3.10	1.5891	55.6	55.6	0.5138	0.5138	55.64	
PCB-1	11:33	105945	2.76	1.2191	1.690	1.690	0.0552	0.0552		M
PCB-2	13:32	145652	3.44	1.1805	2.247	2.247	0.0584	0.0584		M
PCB-3	13:42	212395	3.20	1.2206	2.980	2.980	0.0579	0.0579		
S Total Dichlorobiphenyls					48.6	48.1	0.1010	0.1010		RQ
D PCB-4L	13:56	2521226	1.63	0.6475	59.0	59.0	0.2018	0.2018	58.97	
* PCB-9L	15:57	6602695	1.62		100.0	100.0				
\$ PCB-8L	16:49	945819	1.63	1.2066	31.6	31.6	0.2371	0.2371	94.71	a
D PCB-15L	20:04	2444488	1.60	1.0789	34.3	34.3	0.1211	0.1211	34.31	a
PCB-4	13:58	31818	1.52	1.2818	0.9845	0.9845	0.0920	0.0920		
PCB-10	14:10						0.1052	0.1052		
PCB-9	15:57	34807	1.56	1.4224	1.092	0.9855	0.0972	0.0972		RQ
PCB-7	16:06	44241	1.67	1.4134	1.261	1.261	0.0978	0.0978		
PCB-6	16:23	64510	1.52	1.5421	1.685	1.685	0.0897	0.0897		a
PCB-5	16:40						0.1032	0.1032		
PCB-8	16:50	220791	1.67	1.5889	5.597	5.597	0.0870	0.0870		a
PCB-14	18:24						0.0986	0.0986		
PCB-11	19:28	1151359	1.56	1.2951	35.8	35.8	0.1068	0.1068		a
PCB-12	19:42	22282	1.56	1.3358	0.8459	0.6718	0.1035	0.1035		RQa
PCB-13 (C12)	19:42	22282	1.56	1.3358	0.8459	0.6718	0.1035	0.1035		RQa
PCB-15	20:04	33710	1.56	1.2903	1.311	1.069	0.1295	0.1295		RQa
S Total Trichlorobiphenyls					30.1	29.8	0.0625	0.0625		RQ
D PCB-19L	17:09	1419004	1.05	0.6285	63.3	63.3	1.075	1.075	63.26	
* PCB-32L	20:30	3568922	1.07		100.0	100.0				
* PCB-31L	22:39	11887752	1.06		100.0	100.0				
\$ PCB-28L	22:56	9728192	1.04	1.0494	78.0	78.0	0.1387	0.1387	77.98	
D PCB-37L	26:52	7736038	1.07	0.8749	74.4	74.4	0.1664	0.1664	74.38	
PCB-19	17:08	5764	1.04	1.2809	0.4307	0.3171	0.1007	0.1007		RQ
PCB-18	19:10	62793	1.07	1.7652	2.507	2.507	0.0731	0.0731		Ma
PCB-30 (C18)	19:10	62793	1.07	1.7652	2.507	2.507	0.0731	0.0731		Ma
PCB-17	19:35	63824	1.09	1.2430	3.618	3.618	0.1038	0.1038		M
PCB-27	19:34						0.0704	0.0704		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:42						0.0769	0.0769		
PCB-16	20:00	12928	1.04	1.1286	0.8073	0.8073	0.1143	0.1143		M
PCB-32	20:31	63546	1.00	1.8324	2.444	2.444	0.0704	0.0704		a
PCB-34	21:35						0.0497	0.0497		
PCB-23	21:43						0.0518	0.0518		
PCB-26	22:08	120010	0.96	1.1255	1.378	1.378	0.0498	0.0498		
PCB-29 (C26)	22:08	120010	0.96	1.1255	1.378	1.378	0.0498	0.0498		
PCB-25	22:21	65064	0.94	1.2728	0.6608	0.6608	0.0440	0.0440		a
PCB-31	22:40	516110	1.07	1.1532	5.785	5.785	0.0486	0.0486		a
PCB-20	22:57	493217	1.01	1.1718	5.441	5.441	0.0478	0.0478		
PCB-28 (C20)	22:57	493217	1.01	1.1718	5.441	5.441	0.0478	0.0478		
PCB-21	23:11	344445	0.88	1.0746	4.143	4.143	0.0521	0.0521		a
PCB-33 (C21)	23:11	344445	0.88	1.0746	4.143	4.143	0.0521	0.0521		a
PCB-22	23:34	165185	1.04	1.1932	2.001	1.789	0.0469	0.0469		RQa
PCB-36	25:04						0.0506	0.0506		
PCB-39	25:25						0.0483	0.0483		
PCB-38	26:00						0.0516	0.0516		
PCB-35	26:29	34456	0.98	1.1297	0.3943	0.3943	0.0496	0.0496		M
PCB-37	26:53	47293	0.96	1.1435	0.5346	0.5346	0.0490	0.0490		
S Total Tetrachlorobiphenyls					42.1	41.5	0.0790	0.0790		RQ
D PCB-54L	20:21	1373521	0.77	0.5562	69.2	69.2	0.0798	0.0798	69.19	a
* PCB-52L	24:43	5955964	0.80		100.0	100.0				
\$ PCB-79L	32:35	2081986	0.80	1.0018	35.4	35.4	0.2779	0.2779	106	
D PCB-81L	33:34	5643083	0.81	1.2470	76.0	76.0	0.1935	0.1935	75.98	
D PCB-77L	34:08	6085414	0.81	1.3212	77.3	77.3	0.1826	0.1826	77.33	
PCB-54	20:10						0.0104	0.0104		
PCB-50	22:24	36568	0.77	0.8578	0.7270	0.7270	0.1013	0.1013		a
PCB-53 (C50)	22:24	36568	0.77	0.8578	0.7270	0.7270	0.1013	0.1013		a
PCB-45	23:07	200274	0.76	0.8264	4.132	4.132	0.1052	0.1052		
PCB-51 (C45)	23:07	200274	0.76	0.8264	4.132	4.132	0.1052	0.1052		
PCB-46	23:20	6860	0.77	0.7101	0.2098	0.1647	0.1224	0.1224		RQ
PCB-52	24:45	305889	0.81	0.9194	5.673	5.673	0.0945	0.0945		
PCB-43	24:51						0.0841	0.0841		
PCB-73 (C43)	24:51						0.0841	0.0841		
PCB-49	25:13	141201	0.73	1.0685	2.253	2.253	0.0813	0.0813		a
PCB-69 (C49)	25:13	141201	0.73	1.0685	2.253	2.253	0.0813	0.0813		a
PCB-48	25:30	47107	0.84	0.8399	0.9564	0.9564	0.1035	0.1035		
PCB-44	25:46	827675	0.79	0.9731	14.5	14.5	0.0893	0.0893		
PCB-47 (C44)	25:46	827675	0.79	0.9731	14.5	14.5	0.0893	0.0893		
PCB-65 (C44)	25:46	827675	0.79	0.9731	14.5	14.5	0.0893	0.0893		
PCB-59	26:02	26247	0.80	1.1853	0.3776	0.3776	0.0733	0.0733		
PCB-62 (C59)	26:02	26247	0.80	1.1853	0.3776	0.3776	0.0733	0.0733		
PCB-75 (C59)	26:02	26247	0.80	1.1853	0.3776	0.3776	0.0733	0.0733		
PCB-42	26:15	30199	0.77	0.8097	0.7326	0.6360	0.1074	0.1074		RQ
PCB-40	26:44	83812	0.88	0.8863	1.612	1.612	0.0981	0.0981		M
PCB-41 (C40)	26:44	83812	0.88	0.8863	1.612	1.612	0.0981	0.0981		M
PCB-71 (C40)	26:44	83812	0.88	0.8863	1.612	1.612	0.0981	0.0981		M
PCB-64	26:57	74635	0.77	1.1776	1.273	1.081	0.0738	0.0738		RQM
PCB-72	27:46						0.0794	0.0794		
PCB-68	28:03	144246	0.79	1.2533	1.963	1.963	0.0694	0.0694		M
PCB-57	28:28						0.0803	0.0803		
PCB-58	28:42						0.0656	0.0656		
PCB-67	28:53	5245	0.77	1.4230	0.0876	0.0629	0.0611	0.0611		RQM
PCB-63	29:08						0.0773	0.0773		
PCB-61	29:27	328977	0.75	1.2612	4.448	4.448	0.0689	0.0689		M
PCB-70 (C61)	29:27	328977	0.75	1.2612	4.448	4.448	0.0689	0.0689		M
PCB-74 (C61)	29:27	328977	0.75	1.2612	4.448	4.448	0.0689	0.0689		M
PCB-76 (C61)	29:27	328977	0.75	1.2612	4.448	4.448	0.0689	0.0689		M
PCB-66	29:47	93045	0.77	1.2583	1.422	1.261	0.0691	0.0691		RQ
PCB-55	29:58						0.0657	0.0657		
PCB-56	30:27	58250	0.67	1.2334	0.8053	0.8053	0.0705	0.0705		M

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:40	29756	0.77	1.1230	0.5128	0.4518	0.0774	0.0774		RQM
PCB-80	31:05						0.0656	0.0656		
PCB-79	32:41	15359	0.77	1.4368	0.2201	0.1823	0.0605	0.0605		RQM
PCB-78	33:09						0.0748	0.0748		
PCB-81	33:36						0.0826	0.0826		
PCB-77	34:11	12585	0.77	1.0836	0.2387	0.1909	0.0782	0.0782		RQM
S Total Pentachlorobiphenyls					73.4	73.3	0.0630	0.0630		RQ
D PCB-104L	25:39	4225782	1.59	1.2161	88.6	88.6	0.0575	0.0575	88.55	
\$ PCB-95L	28:35	1098322	1.62	0.7218	36.0	36.0	0.0855	0.0855	108	
* PCB-101L	31:30	3924153	1.61		100.0	100.0				
\$ PCB-111L	34:11	4560763	1.59	1.3699	84.8	84.8	0.0510	0.0510	84.84	
D PCB-123L	36:08	5631058	1.58	0.9731	90.7	90.7	1.036	1.036	90.65	
D PCB-118L	36:27	5886906	1.58	1.0102	91.3	91.3	0.998	0.998	91.30	
D PCB-114L	36:58	5731540	1.56	0.9949	90.3	90.3	1.013	1.013	90.25	
D PCB-105L	37:38	5442340	1.60	0.9514	89.6	89.6	1.059	1.059	89.61	
* PCB-127L	39:06	6383214	1.59		100.0	100.0				
D PCB-126L	40:42	5346839	1.57	0.9439	88.7	88.7	1.068	1.068	88.75	
PCB-104	25:38						0.0552	0.0552		
PCB-96	26:01						0.0509	0.0509		
PCB-103	27:56						0.0637	0.0637		
PCB-94	28:10						0.0728	0.0728		
PCB-95	28:37	168153	1.39	0.8033	4.954	4.954	0.0693	0.0693		
PCB-93	28:49						0.0660	0.0660		
PCB-100 (C93)	28:49						0.0660	0.0660		
PCB-98	29:00	5186	1.55	0.8262	0.2135	0.1485	0.0674	0.0674		RQ
PCB-102 (C98)	29:00	5186	1.55	0.8262	0.2135	0.1485	0.0674	0.0674		RQ
PCB-88	29:28	29967	1.49	0.8013	0.8850	0.8850	0.0695	0.0695		
PCB-91 (C88)	29:28	29967	1.49	0.8013	0.8850	0.8850	0.0695	0.0695		
PCB-84	29:41	63105	1.72	0.7299	2.046	2.046	0.0762	0.0762		
PCB-89	30:10						0.0714	0.0714		
PCB-121	30:34						0.0429	0.0429		
PCB-92	30:56	50042	1.54	0.8546	1.386	1.386	0.0651	0.0651		
PCB-90	31:32	370457	1.59	0.9550	9.180	9.180	0.0583	0.0583		
PCB-101 (C90)	31:32	370457	1.59	0.9550	9.180	9.180	0.0583	0.0583		
PCB-113 (C90)	31:32	370457	1.59	0.9550	9.180	9.180	0.0583	0.0583		
PCB-83	32:06	177767	1.51	0.8385	5.017	5.017	0.0664	0.0664		
PCB-99 (C83)	32:06	177767	1.51	0.8385	5.017	5.017	0.0664	0.0664		
PCB-112	32:13						0.0394	0.0394		
PCB-86	32:42	417450	1.52	1.0473	9.433	9.433	0.0531	0.0531		M
PCB-87 (C86)	32:42	417450	1.52	1.0473	9.433	9.433	0.0531	0.0531		M
PCB-97 (C86)	32:42	417450	1.52	1.0473	9.433	9.433	0.0531	0.0531		M
PCB-109 (C86)	32:42	417450	1.52	1.0473	9.433	9.433	0.0531	0.0531		M
PCB-119 (C86)	32:42	417450	1.52	1.0473	9.433	9.433	0.0531	0.0531		M
PCB-125 (C86)	32:42	417450	1.52	1.0473	9.433	9.433	0.0531	0.0531		M
PCB-85	33:19	98056	1.46	1.0408	2.229	2.229	0.0535	0.0535		M
PCB-116 (C85)	33:19	98056	1.46	1.0408	2.229	2.229	0.0535	0.0535		M
PCB-117 (C85)	33:19	98056	1.46	1.0408	2.229	2.229	0.0535	0.0535		M
PCB-110	33:30	744446	1.57	1.1919	14.8	14.8	0.0467	0.0467		
PCB-115 (C110)	33:30	744446	1.57	1.1919	14.8	14.8	0.0467	0.0467		
PCB-82	33:48	71404	1.59	0.8303	2.035	2.035	0.0670	0.0670		
PCB-111	34:13						0.0459	0.0459		
PCB-120	34:41						0.0377	0.0377		
PCB-108	35:48	50051	1.37	1.1405	0.7826	0.7826	0.0696	0.0696		M
PCB-124 (C108)	35:48	50051	1.37	1.1405	0.7826	0.7826	0.0696	0.0696		M
PCB-107	36:02	82954	1.62	1.2121	1.220	1.220	0.0655	0.0655		M
PCB-123	36:07	14195	1.52	1.0722	0.2351	0.2351	0.0725	0.0725		M
PCB-106	36:17						0.0733	0.0733		
PCB-118	36:28	934823	1.63	1.2055	13.2	13.2	0.0628	0.0628		M
PCB-122	36:49	10556	1.55	0.9567	0.2544	0.1968	0.0830	0.0830		RQ
PCB-114	37:00	22968	1.53	1.0842	0.3696	0.3696	0.0716	0.0716		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:39	334963	1.55	1.1879	5.181	5.181	0.0690	0.0690		
PCB-127	39:09						0.0697	0.0697		
PCB-126	40:46	2689	1.55	1.0976	0.0650	0.0458	0.0769	0.0769		RQM
S Total Hexachlorobiphenyls					63.3	62.9	0.0286	0.0286		RQ
D PCB-155L	31:16	3825706	1.28	1.0851	89.8	89.8	0.0392	0.0392	89.84	
\$ PCB-153L	38:19	1482522	1.28	0.9169	33.8	33.8	0.3935	0.3935	101	
* PCB-138L	39:34	4565542	1.29		100.0	100.0				
D PCB-167L	42:33	4882698	1.28	1.2572	85.1	85.1	0.2474	0.2474	85.06	
D PCB-156L	43:42	9522519	1.29	1.2106	172.3	172.3	0.2570	0.2570	86.14	
D PCB-157L (C156L)	43:42	9522519	1.29	1.2106	172.3	172.3	0.2570	0.2570	86.14	
D PCB-169L	46:56	4750687	1.27	1.2439	83.7	83.7	0.2501	0.2501	83.66	
PCB-155	31:16	680	1.24	0.9444	0.0240	0.0188	0.002946	0.002946		RQ
PCB-152	31:30						0.002812	0.002812		
PCB-150	31:40						0.002746	0.002746		
PCB-136	32:02	35897	1.33	1.0116	0.9276	0.9276	0.002751	0.002751		M
PCB-145	32:20						0.002873	0.002873		
PCB-148	33:50						0.003660	0.003660		
PCB-135	34:24	88313	1.26	0.7256	3.182	3.182	0.003835	0.003835		M
PCB-151 (C135)	34:24	88313	1.26	0.7256	3.182	3.182	0.003835	0.003835		M
PCB-154	34:40	2354	1.24	0.8129	0.0874	0.0757	0.003423	0.003423		RQM
PCB-144	34:59	17976	1.30	0.7852	0.5984	0.5984	0.003543	0.003543		M
PCB-147	35:20	417592	1.39	0.8950	9.743	9.743	0.0407	0.0407		
PCB-149 (C147)	35:20	417592	1.39	0.8950	9.743	9.743	0.0407	0.0407		
PCB-134	35:31	35587	1.24	0.7967	1.044	0.9327	0.0457	0.0457		RQa
PCB-143 (C134)	35:31	35587	1.24	0.7967	1.044	0.9327	0.0457	0.0457		RQa
PCB-139	35:55	18712	1.05	0.8769	0.4456	0.4456	0.0415	0.0415		
PCB-140 (C139)	35:55	18712	1.05	0.8769	0.4456	0.4456	0.0415	0.0415		
PCB-131	36:09	14809	1.19	0.7503	0.4122	0.4122	0.0485	0.0485		M
PCB-142	36:18						0.0485	0.0485		
PCB-132	36:36	240495	1.32	0.7489	6.705	6.705	0.0486	0.0486		
PCB-133	37:05	7573	1.24	0.8096	0.2358	0.1953	0.0450	0.0450		RQ
PCB-165	37:31						0.0355	0.0355		
PCB-146	37:45	94440	1.21	0.9637	2.046	2.046	0.0378	0.0378		
PCB-161	37:54						0.0323	0.0323		
PCB-153	38:21	567127	1.16	1.0938	10.8	10.8	0.0333	0.0333		
PCB-168 (C153)	38:21	567127	1.16	1.0938	10.8	10.8	0.0333	0.0333		
PCB-141	38:34	120356	1.28	0.8755	2.871	2.871	0.0416	0.0416		
PCB-130	38:58	47313	1.35	0.7051	1.401	1.401	0.0516	0.0516		M
PCB-137	39:10	48385	1.14	0.7767	1.301	1.301	0.0469	0.0469		
PCB-164	39:17	41392	1.39	1.0382	0.8325	0.8325	0.0351	0.0351		
PCB-129	39:35	712842	1.21	0.9464	15.7	15.7	0.0385	0.0385		
PCB-138 (C129)	39:35	712842	1.21	0.9464	15.7	15.7	0.0385	0.0385		
PCB-160 (C129)	39:35	712842	1.21	0.9464	15.7	15.7	0.0385	0.0385		
PCB-163 (C129)	39:35	712842	1.21	0.9464	15.7	15.7	0.0385	0.0385		
PCB-158	39:58	104049	1.26	1.3110	1.657	1.657	0.0278	0.0278		
PCB-128	40:50	90090	1.24	0.9829	2.096	1.914	0.0370	0.0370		RQ
PCB-166 (C128)	40:50	90090	1.24	0.9829	2.096	1.914	0.0370	0.0370		RQ
PCB-159	41:51						0.0263	0.0263		
PCB-162	42:08						0.0290	0.0290		
PCB-167	42:35	15822	1.24	1.1159	0.3340	0.2904	0.0271	0.0271		RQ
PCB-156	43:43	42030	1.16	1.1104	0.7950	0.7950	0.0403	0.0403		
PCB-157 (C156)	43:43	42030	1.16	1.1104	0.7950	0.7950	0.0403	0.0403		
PCB-169	46:59						0.0268	0.0268		
S Total Heptachlorobiphenyls					3.560	3.141	0.001088	0.001088		RQ
D PCB-188L	36:58	4317447	1.06	1.3133	90.5	90.5	0.0310	0.0310	90.55	
\$ PCB-178L	40:01	3300048	1.04	1.0313	88.1	88.1	0.0395	0.0395	88.14	
* PCB-180L	45:06	3630541	1.05		100.0	100.0				
D PCB-170L	46:21	2786832	1.05	0.8362	91.8	91.8	0.0487	0.0487	91.80	
D PCB-189L	49:28	5501777	1.04	1.4414	82.1	82.1	0.2328	0.2328	82.14	
PCB-188	37:01						0.000523	0.000523		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:22	12521	1.15	1.4276	0.2469	0.2469	0.000513	0.000513		
PCB-184	37:50	505	1.05	1.3672	0.0194	0.0104	0.000536	0.000536		RQM
PCB-176	38:14	4586	1.05	1.2331	0.1165	0.1047	0.000594	0.000594		RQ
PCB-186	38:42						0.000497	0.000497		
PCB-178	40:01	2990	1.05	0.8946	0.1169	0.0941	0.000818	0.000818		RQM
PCB-175	40:40						0.000769	0.000769		RQU
PCB-187	40:57	17172	1.05	1.1018	0.5118	0.4388	0.000665	0.000665		RQM
PCB-182	41:11						0.000792	0.000792		
PCB-183	41:34	17334	1.04	0.9825	0.4967	0.4967	0.000745	0.000745		
PCB-185 (C183)	41:34	17334	1.04	0.9825	0.4967	0.4967	0.000745	0.000745		
PCB-174	41:47	14728	1.05	0.9642	0.5322	0.4300	0.000759	0.000759		RQM
PCB-177	42:14	9319	1.05	0.9773	0.3190	0.2685	0.000749	0.000749		RQ
PCB-181	42:38	564	1.05	0.9505	0.0185	0.0167	0.000770	0.000770		RQ
PCB-171	42:50	5828	1.05	0.9336	0.2167	0.1757	0.000784	0.000784		RQ
PCB-173 (C171)	42:50	5828	1.05	0.9336	0.2167	0.1757	0.000784	0.000784		RQ
PCB-172	44:30	805	1.05	0.8519	0.0886	0.0266	0.000860	0.000860		RQM
PCB-192	44:46						0.000544	0.000544		
PCB-180	45:08	24103	0.96	1.1676	0.5812	0.5812	0.000627	0.000627		
PCB-193 (C180)	45:08	24103	0.96	1.1676	0.5812	0.5812	0.000627	0.000627		
PCB-191	45:30						0.000568	0.000568		
PCB-170	46:21	8287	1.05	1.1865	0.2958	0.2506	0.000806	0.000806		RQ
PCB-190	46:56						0.000550	0.000550		
PCB-189	49:30						0.009376	0.009376		
S Total Octachlorobiphenyls					0.0767	0.0546	0.005126	0.005126		RQ
D PCB-202L	42:20	3255959	0.91	0.9818	91.3	91.3	0.0561	0.0561	91.34	
* PCB-194L	51:34	4646891	0.89		100.0	100.0				
D PCB-205L	52:02	4890566	0.89	1.1786	89.3	89.3	0.0588	0.0588	89.30	
PCB-202	42:22	165	0.89	1.0359	0.0154	0.004892	0.005098	0.005098		RQM
PCB-201	43:18						0.005414	0.005414		
PCB-204	43:58						0.005036	0.005036		
PCB-197	44:12						0.004608	0.004608		
PCB-200	44:19						0.005243	0.005243		
PCB-198	47:06	1152	0.89	0.8698	0.0493	0.0407	0.006071	0.006071		RQ
PCB-199 (C198)	47:06	1152	0.89	0.8698	0.0493	0.0407	0.006071	0.006071		RQ
PCB-196	47:45						0.006764	0.006764		
PCB-203	47:58	272	0.89	0.9292	0.0120	0.008990	0.005683	0.005683		RQM
PCB-195	49:17						0.004780	0.004780		
PCB-194	51:33						0.004058	0.004058		RQU
PCB-205	52:05						0.003631	0.003631		
S Total Nonachlorobiphenyls							0.1387	0.1387		
D PCB-208L	48:59	4315607	0.79	0.9576	97.0	97.0	0.2915	0.2915	96.98	
D PCB-206L	53:47	3200950	0.80	0.6947	99.2	99.2	0.4018	0.4018	99.16	
PCB-208	49:02						0.1192	0.1192		
PCB-207	49:58						0.1138	0.1138		
PCB-206	53:50						0.1387	0.1387		
D PCB-209L	55:24	3402444	0.70	0.6669	109.8	109.8	0.0576	0.0576	110	
DCB Decachlorobiphenyl	55:26	3114	0.69	1.1004	0.0898	0.0832	0.004640	0.004640		RQM
S Polychlorinated biphenyls, Total					261.3	0.0832	0.0537	0.0537		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d
Lims ID: 140-36689-A-4-C
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 19:08:00 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-012
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 10:40:19 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 10:40:19

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:32	11:35	-2	0.724	3908095	1567967	1286	3215	1219		
202.0766	11:32	11:35	-2	0.724	1235132	487285	3574	8935	136	3.16(2.66-3.60)	
PCB-3L											
200.0795	13:41	13:44	-2	0.858	4416100	1487171	1286	3215	1156		
202.0766	13:41	13:44	-2	0.858	1422500	469850	3574	8935	131	3.10(2.66-3.60)	
PCB-1											
188.0393	11:33	11:33	-2	1.001	77759	29474	217	542	136		M
190.0363	11:33	11:33	-2	1.001	28186	10603	336	840	32	2.76(2.66-3.60)	M
PCB-2											
188.0393	13:32	13:32	-2	0.988	112852	39138	217	542	180		
190.0363	13:31	13:32	-3	0.987	32800	10243	336	840	30	3.44(2.66-3.60)	M
PCB-3											
188.0393	13:42	13:42	-2	1.001	161829	53073	217	542	245		
190.0363	13:42	13:42	-2	1.001	50566	17250	336	840	51	3.20(2.66-3.60)	
PCB-4L											
234.0406	13:56	14:00	-3	0.874	1562158	490327	627	1567	782		
236.0376	13:56	14:00	-3	0.874	959068	306805	151	377	2032	1.63(1.33-1.79)	
PCB-9L											
234.0406	15:57	15:56	1		4081970	919138	627	1567	1466		
236.0376	15:57	15:56	1		2520725	568981	151	377	3768	1.62(1.33-1.79)	
PCB-8L											
234.0406	16:49	16:50	3	1.207	586843	100284	627	1567	160		a
236.0376	16:49	16:50	3	1.207	358976	56279	151	377	373	1.63(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											a
234.0406	20:04	20:06	14	1.258	1503149	351242	627	1567	560		a
236.0376	20:04	20:06	14	1.258	941339	211125	151	377	1398	1.60(1.33-1.79)	
PCB-4											
222.0003	13:58	13:58	-2	1.002	19206	5622	134	335	42		
223.9974	13:57	13:58	-3	1.001	12612	3659	242	605	15	1.52(1.33-1.79)	
PCB-10											
222.0003	14:07						134	335			
223.9974	14:07						242	605			
PCB-9											RQ
222.0003	15:57	15:54	0	1.144	21211	5068	134	335	38		
223.9974	15:57	15:54	0	1.144	17366	4082	242	605	17	1.22(1.33-1.79)	
	Empc Correction				13596	3248	242	605	13		
PCB-7											
222.0003	16:06	16:07	0	1.156	27641	5428	134	335	41		
223.9974	16:07	16:07	0	1.157	16600	3562	242	605	15	1.67(1.33-1.79)	
PCB-6											a
222.0003	16:23	16:24	1	1.176	38945	6887	134	335	51		a
223.9974	16:23	16:24	1	1.176	25565	5086	242	605	21	1.52(1.33-1.79)	
PCB-5											
222.0003	16:36						134	335			
223.9974	16:36						242	605			
PCB-8											a
222.0003	16:50	16:54	4	1.209	138077	22026	134	335	164		a
223.9974	16:49	16:54	2	1.207	82714	13940	242	605	58	1.67(1.33-1.79)	
PCB-14											
222.0003	18:37						134	335			
223.9974	18:37						242	605			
PCB-11											a
222.0003	19:28	19:16	14	0.970	702152	137326	134	335	1025		a
223.9974	19:28	19:16	14	0.970	449207	85786	242	605	354	1.56(1.33-1.79)	
PCB-12											RQa
222.0003	19:42	19:30	11	0.982	19350	3172	134	335	24		a
	Empc Correction				13578	2720	134	335	20		
223.9974	19:40	19:30	8	0.980	8704	1744	242	605	7	2.22(1.33-1.79)	
PCB-13 (C12)											RQa
222.0003	19:42	19:30	11	0.982	19350	3172	134	335	24		a
	Empc Correction				13578	2720	134	335	20		
223.9974	19:40	19:30	8	0.980	8704	1744	242	605	7	2.22(1.33-1.79)	
PCB-15											RQa
222.0003	20:04	20:07	13	1.000	28176	5158	134	335	38		a
	Empc Correction				20542	4798	134	335	36		
223.9974	20:04	20:07	13	1.000	13168	3076	242	605	13	2.14(1.33-1.79)	
PCB-19L											
268.0016	17:09	17:15	4	0.836	726416	142560	1295	3237	110		
269.9986	17:09	17:15	4	0.836	692588	130230	971	2427	134	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:30	20:18	11		1846629	441009	1295	3237	341		
269.9986	20:30	20:18	11		1722293	397487	971	2427	409	1.07(0.88-1.20)	
PCB-31L											
268.0016	22:39	22:34	5		6108895	1413598	1060	2650	1334		
269.9986	22:39	22:34	5		5778857	1330866	538	1345	2474	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:56	5	1.012	4958333	1112046	1060	2650	1049		
269.9986	22:56	22:56	5	1.012	4769859	1064639	538	1345	1979	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:52	26:56	1	1.186	3992713	861584	1060	2650	813		
269.9986	26:52	26:56	1	1.186	3743325	811812	538	1345	1509	1.07(0.88-1.20)	
PCB-19											
255.9613	17:08	17:13	3	0.999	2939	661	98	245	7		RQ
257.9584	17:09	17:13	4	1.001	4890	999	43	107	23	0.60(0.88-1.20)	
Empc Correction					2825	635	43	107	15		
PCB-18											
255.9613	19:10	19:00	15	1.118	32437	4085	98	245	42		Ma
257.9584	19:11	19:00	16	1.119	30356	3222	43	107	75	1.07(0.88-1.20)	M
PCB-30 (C18)											
255.9613	19:10	19:00	15	1.118	32437	4085	98	245	42		Ma
257.9584	19:11	19:00	16	1.119	30356	3222	43	107	75	1.07(0.88-1.20)	M
PCB-17											
255.9613	19:35	19:26	13	1.142	33294	8107	98	245	83		M
257.9584	19:35	19:26	14	1.143	30530	6943	43	107	161	1.09(0.88-1.20)	M
PCB-27											
255.9613	19:39						98	245			
257.9584	19:39						43	107			
PCB-24											
255.9613	19:47						98	245			
257.9584	19:47						43	107			
PCB-16											
255.9613	20:00	19:55	11	1.166	6602	1630	98	245	17		M
257.9584	20:01	19:55	11	1.167	6326	1549	43	107	36	1.04(0.88-1.20)	M
PCB-32											
255.9613	20:31	20:31	11	1.196	31798	8389	98	245	86		a
257.9584	20:30	20:31	11	1.196	31748	7155	43	107	166	1.00(0.88-1.20)	a
PCB-34											
255.9613	21:40						228	570			
257.9584	21:40						147	367			
PCB-23											
255.9613	21:49						228	570			
257.9584	21:49						147	367			
PCB-26											
255.9613	22:08	22:09	6	1.292	58629	13897	228	570	61		
257.9584	22:08	22:09	6	1.292	61381	13656	147	367	93	0.96(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											
255.9613	22:08	22:09	6	1.292	58629	13897	228	570	61		
257.9584	22:08	22:09	6	1.292	61381	13656	147	367	93	0.96(0.88-1.20)	
PCB-25											
255.9613	22:21	22:22	5	0.832	31606	7178	228	570	31		a
257.9584	22:22	22:22	6	0.833	33458	6344	147	367	43	0.94(0.88-1.20)	a
PCB-31											
255.9613	22:40	22:42	5	0.844	267283	61430	228	570	269		a
257.9584	22:40	22:42	5	0.844	248827	57733	147	367	393	1.07(0.88-1.20)	a
PCB-20											
255.9613	22:57	22:57	4	0.855	248160	54207	228	570	238		
257.9584	22:57	22:57	4	0.855	245057	54149	147	367	368	1.01(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:57	22:57	4	0.855	248160	54207	228	570	238		
257.9584	22:57	22:57	4	0.855	245057	54149	147	367	368	1.01(0.88-1.20)	
PCB-21											
255.9613	23:11	23:12	8	0.863	161210	35013	228	570	154		a
257.9584	23:11	23:12	8	0.863	183235	35824	147	367	244	0.88(0.88-1.20)	a
PCB-33 (C21)											
255.9613	23:11	23:12	8	0.863	161210	35013	228	570	154		a
257.9584	23:11	23:12	8	0.863	183235	35824	147	367	244	0.88(0.88-1.20)	a
PCB-22											
255.9613	23:34	23:35	4	0.878	84212	19673	228	570	86		RQa
257.9584	23:34	23:35	4	0.878	100513	20315	147	367	138	0.84(0.88-1.20)	a
Empc Correction					80973	18916	147	367	129		
PCB-36											
255.9613	25:05						228	570			
257.9584	25:05						147	367			
PCB-39											
255.9613	25:26						228	570			
257.9584	25:26						147	367			
PCB-38											
255.9613	26:01						228	570			
257.9584	26:01						147	367			
PCB-35											
255.9613	26:29	26:29	1	0.986	17053	3818	228	570	17		M
257.9584	26:29	26:29	1	0.986	17403	4190	147	367	29	0.98(0.88-1.20)	M
PCB-37											
255.9613	26:53	26:51	1	1.001	23120	4430	228	570	19		
257.9584	26:53	26:51	1	1.001	24173	5562	147	367	38	0.96(0.88-1.20)	
PCB-54L											
301.9626	20:21	20:23	13	0.823	596575	133065	81	202	1643		a
303.9597	20:21	20:23	13	0.823	776946	169222	68	170	2489	0.77(0.65-0.89)	a
PCB-52L											
301.9626	24:43	24:41	2		2646305	595561	818	2045	728		
303.9597	24:43	24:41	2		3309659	741245	472	1180	1570	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-79L											
301.9626	32:35	32:33	0	0.971	926955	191539	818	2045	234		
303.9597	32:35	32:33	0	0.971	1155031	237060	472	1180	502	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:34	33:38	-1	1.358	2533000	504213	818	2045	616		
303.9597	33:34	33:38	-1	1.358	3110083	624140	472	1180	1322	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:08	34:11	-1	1.380	2721103	541141	818	2045	662		
303.9597	34:08	34:11	-1	1.380	3364311	647555	472	1180	1372	0.81(0.65-0.89)	
PCB-54											
289.9224	20:10						5	12			
291.9194	20:10						11	27			
PCB-50											
289.9224	22:24	22:24	5	1.101	15922	3934	149	372	26		a
291.9194	22:24	22:24	4	1.100	20646	4251	254	635	17	0.77(0.65-0.89)	a
PCB-53 (C50)											
289.9224	22:24	22:24	5	1.101	15922	3934	149	372	26		a
291.9194	22:24	22:24	4	1.100	20646	4251	254	635	17	0.77(0.65-0.89)	a
PCB-45											
289.9224	23:07	23:08	4	1.136	86648	15957	149	372	107		
291.9194	23:07	23:08	4	1.136	113626	21366	254	635	84	0.76(0.65-0.89)	
PCB-51 (C45)											
289.9224	23:07	23:08	4	1.136	86648	15957	149	372	107		
291.9194	23:07	23:08	4	1.136	113626	21366	254	635	84	0.76(0.65-0.89)	
PCB-46											
289.9224	23:20	23:33	3	1.147	4860	1293	149	372	9		RQ
	Empc Correction				2984	890	149	372	6		
291.9194	23:23	23:33	5	1.149	3876	1157	254	635	5	1.25(0.65-0.89)	
PCB-52											
289.9224	24:45	24:42	3	1.216	136947	29162	149	372	196		
291.9194	24:45	24:42	3	1.216	168942	39554	254	635	156	0.81(0.65-0.89)	
PCB-43											
289.9224	25:07						149	372			
291.9194	25:07						254	635			
PCB-73 (C43)											
289.9224	25:07						149	372			
291.9194	25:07						254	635			
PCB-49											
289.9224	25:13	25:14	5	1.239	59784	13452	149	372	90		a
291.9194	25:14	25:14	6	1.240	81417	16649	254	635	66	0.73(0.65-0.89)	a
PCB-69 (C49)											
289.9224	25:13	25:14	5	1.239	59784	13452	149	372	90		a
291.9194	25:14	25:14	6	1.240	81417	16649	254	635	66	0.73(0.65-0.89)	a
PCB-48											
289.9224	25:30	25:32	2	1.253	21536	4609	149	372	31		
291.9194	25:30	25:32	2	1.253	25571	5387	254	635	21	0.84(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-44											
289.9224	25:46	25:43	3	1.266	366045	74380	149	372	499		
291.9194	25:46	25:43	3	1.266	461630	86378	254	635	340	0.79(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:46	25:43	3	1.266	366045	74380	149	372	499		
291.9194	25:46	25:43	3	1.266	461630	86378	254	635	340	0.79(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:46	25:43	3	1.266	366045	74380	149	372	499		
291.9194	25:46	25:43	3	1.266	461630	86378	254	635	340	0.79(0.65-0.89)	
PCB-59											
289.9224	26:02	26:18	1	1.280	11628	2541	149	372	17		
291.9194	26:02	26:18	1	1.280	14619	2665	254	635	10	0.80(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:02	26:18	1	1.280	11628	2541	149	372	17		
291.9194	26:02	26:18	1	1.280	14619	2665	254	635	10	0.80(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:02	26:18	1	1.280	11628	2541	149	372	17		
291.9194	26:02	26:18	1	1.280	14619	2665	254	635	10	0.80(0.65-0.89)	
PCB-42											
289.9224	26:15	26:15	1	1.290	17722	3596	149	372	24		RQ
	Empc Correction				13137	3063	149	372	21		
291.9194	26:14	26:15	1	1.289	17062	3978	254	635	16	1.04(0.65-0.89)	
PCB-40											
289.9224	26:44	26:44	1	1.314	39178	6018	149	372	40		M
291.9194	26:44	26:44	1	1.314	44634	8167	254	635	32	0.88(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:44	26:44	1	1.314	39178	6018	149	372	40		M
291.9194	26:44	26:44	1	1.314	44634	8167	254	635	32	0.88(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:44	26:44	1	1.314	39178	6018	149	372	40		M
291.9194	26:44	26:44	1	1.314	44634	8167	254	635	32	0.88(0.65-0.89)	M
PCB-64											
289.9224	26:57	26:57	1	1.324	45768	9146	149	372	61		RQM
	Empc Correction				32468	7372	149	372	49		M
291.9194	26:56	26:57	1	1.324	42167	9575	254	635	38	1.09(0.65-0.89)	M
PCB-72											
289.9224	27:45						149	372			
291.9194	27:45						254	635			
PCB-68											
289.9224	28:03	28:03	0	0.836	63493	13413	149	372	90		M
291.9194	28:04	28:03	1	0.836	80753	16873	254	635	66	0.79(0.65-0.89)	M
PCB-57											
289.9224	28:27						149	372			
291.9194	28:27						254	635			
PCB-58											
289.9224	28:41						149	372			
291.9194	28:41						254	635			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-67											RQM
289.9224	28:53	28:53	0	0.860	2282	973	149	372	7		
291.9194	28:53	28:53	0	0.860	5025	1438	254	635	6	0.45(0.65-0.89)	M
Empc Correction					2963	1263	254	635	5		
PCB-63											
289.9224	29:08						149	372			
291.9194	29:08						254	635			
PCB-61											M
289.9224	29:27	29:27	-1	0.878	141404	21028	149	372	141		
291.9194	29:28	29:27	0	0.878	187573	29578	254	635	116	0.75(0.65-0.89)	M
PCB-70 (C61)											M
289.9224	29:27	29:27	-1	0.878	141404	21028	149	372	141		
291.9194	29:28	29:27	0	0.878	187573	29578	254	635	116	0.75(0.65-0.89)	M
PCB-74 (C61)											M
289.9224	29:27	29:27	-1	0.878	141404	21028	149	372	141		
291.9194	29:28	29:27	0	0.878	187573	29578	254	635	116	0.75(0.65-0.89)	M
PCB-76 (C61)											M
289.9224	29:27	29:27	-1	0.878	141404	21028	149	372	141		
291.9194	29:28	29:27	0	0.878	187573	29578	254	635	116	0.75(0.65-0.89)	M
PCB-66											RQ
289.9224	29:47	29:49	0	0.888	52349	10190	149	372	68		
Empc Correction					40477	8297	149	372	56		
291.9194	29:47	29:49	0	0.888	52568	10776	254	635	42	1.00(0.65-0.89)	
PCB-55											
289.9224	29:57						149	372			
291.9194	29:57						254	635			
PCB-56											M
289.9224	30:27	30:27	-1	0.907	23333	5250	149	372	35		
291.9194	30:29	30:27	1	0.908	34917	6950	254	635	27	0.67(0.65-0.89)	M
PCB-60											RQM
289.9224	30:40	30:39	0	0.914	12945	2764	149	372	19		
291.9194	30:40	30:39	0	0.914	20826	4672	254	635	18	0.62(0.65-0.89)	M
Empc Correction					16811	3589	254	635	14		
PCB-80											
289.9224	31:04						149	372			
291.9194	31:04						254	635			
PCB-79											RQM
289.9224	32:41	32:37	4	0.974	6682	1398	149	372	9		M
291.9194	32:41	32:37	4	0.974	11867	1962	254	635	8	0.56(0.65-0.89)	M
Empc Correction					8677	1815	254	635	7		
PCB-78											
289.9224	33:08						149	372			
291.9194	33:08						254	635			
PCB-81											
289.9224	33:34						149	372			
291.9194	33:34						254	635			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-77											RQM
289.9224	34:11	34:09	1	1.002	5475	909	149	372	6		M
291.9194	34:09	34:09	-1	1.001	10265	2090	254	635	8	0.53(0.65-0.89)	M
Empc Correction					7110	1180	254	635	5		
PCB-104L											
337.9207	25:39	25:37	1	0.814	2594174	559379	123	307	4548		
339.9178	25:39	25:37	1	0.814	1631608	351642	102	255	3447	1.59(1.32-1.78)	
PCB-95L											
337.9207	28:35	28:38	0	1.115	679726	141741	123	307	1152		
339.9178	28:35	28:38	0	1.115	418596	93282	102	255	915	1.62(1.32-1.78)	
PCB-101L											
337.9207	31:30	31:31	-1		2417782	496334	123	307	4035		
339.9178	31:31	31:31	0		1506371	307312	102	255	3013	1.61(1.32-1.78)	
PCB-111L											
337.9207	34:11	34:11	-1	1.085	2802737	559825	123	307	4551		
339.9178	34:11	34:11	-1	1.085	1758026	353395	102	255	3465	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:08	36:08	-1	1.147	3447963	693924	2996	7490	232		
339.9178	36:08	36:08	-1	1.147	2183095	418520	1997	4992	210	1.58(1.32-1.78)	
PCB-118L											
337.9207	36:27	36:27	-1	1.157	3602482	699394	2996	7490	233		
339.9178	36:27	36:27	-2	1.157	2284424	442413	1997	4992	222	1.58(1.32-1.78)	
PCB-114L											
337.9207	36:58	36:59	-2	1.174	3496030	680793	2996	7490	227		
339.9178	36:58	36:59	-2	1.174	2235510	433053	1997	4992	217	1.56(1.32-1.78)	
PCB-105L											
337.9207	37:38	37:37	-1	1.194	3346077	647228	2996	7490	216		
339.9178	37:38	37:37	-1	1.194	2096263	407433	1997	4992	204	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:06	39:07	-1		3919116	760374	2996	7490	254		
339.9178	39:06	39:07	-1		2464098	478058	1997	4992	239	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:42	40:43	-2	1.292	3262571	625351	2996	7490	209		
339.9178	40:42	40:43	-2	1.292	2084268	398825	1997	4992	200	1.57(1.32-1.78)	
PCB-104											
325.8804	25:39						125	312			
327.8775	25:39						78	195			
PCB-96											
325.8804	26:02						125	312			
327.8775	26:02						78	195			
PCB-103											
325.8804	27:58						125	312			
327.8775	27:58						78	195			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-94											
325.8804	28:12						125	312			
327.8775	28:12						78	195			
PCB-95											
325.8804	28:37	28:39	0	1.116	97747	20800	125	312	166		
327.8775	28:36	28:39	0	1.115	70406	13705	78	195	176	1.39(1.32-1.78)	
PCB-93											
325.8804	28:51						125	312			
327.8775	28:51						78	195			
PCB-100 (C93)											
325.8804	28:51						125	312			
327.8775	28:51						78	195			
PCB-98											
325.8804	29:00	28:57	1	1.131	5420	1084	125	312	9		RQ
	Empc Correction				3152	793	125	312	6		
327.8775	28:57	28:57	-2	1.129	2034	512	78	195	7	2.66(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:00	28:57	1	1.131	5420	1084	125	312	9		RQ
	Empc Correction				3152	793	125	312	6		
327.8775	28:57	28:57	-2	1.129	2034	512	78	195	7	2.66(1.32-1.78)	
PCB-88											
325.8804	29:28	29:31	0	1.149	17910	4191	125	312	34		
327.8775	29:27	29:31	-1	1.149	12057	2193	78	195	28	1.49(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:28	29:31	0	1.149	17910	4191	125	312	34		
327.8775	29:27	29:31	-1	1.149	12057	2193	78	195	28	1.49(1.32-1.78)	
PCB-84											
325.8804	29:41	29:44	0	1.158	39872	7971	125	312	64		
327.8775	29:41	29:44	0	1.158	23233	4705	78	195	60	1.72(1.32-1.78)	
PCB-89											
325.8804	30:13						125	312			
327.8775	30:13						78	195			
PCB-121											
325.8804	30:36						125	312			
327.8775	30:36						78	195			
PCB-92											
325.8804	30:56	30:56	-1	0.856	30355	6311	125	312	50		
327.8775	30:57	30:56	0	0.857	19687	4243	78	195	54	1.54(1.32-1.78)	
PCB-90											
325.8804	31:32	31:34	1	1.230	227372	47630	125	312	381		
327.8775	31:32	31:34	1	1.230	143085	28341	78	195	363	1.59(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:32	31:34	1	1.230	227372	47630	125	312	381		
327.8775	31:32	31:34	1	1.230	143085	28341	78	195	363	1.59(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:32	31:34	1	1.230	227372	47630	125	312	381		
327.8775	31:32	31:34	1	1.230	143085	28341	78	195	363	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-83											
325.8804	32:06	32:09	0	1.252	107022	18996	125	312	152		
327.8775	32:07	32:09	1	1.252	70745	13523	78	195	173	1.51(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:06	32:09	0	1.252	107022	18996	125	312	152		
327.8775	32:07	32:09	1	1.252	70745	13523	78	195	173	1.51(1.32-1.78)	
PCB-112											
325.8804	32:15						125	312			
327.8775	32:15						78	195			
PCB-86											
325.8804	32:42	32:38	6	1.275	251637	31576	125	312	253		M
327.8775	32:42	32:38	5	1.275	165813	21116	78	195	271	1.52(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:42	32:38	6	1.275	251637	31576	125	312	253		M
327.8775	32:42	32:38	5	1.275	165813	21116	78	195	271	1.52(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:42	32:38	6	1.275	251637	31576	125	312	253		M
327.8775	32:42	32:38	5	1.275	165813	21116	78	195	271	1.52(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:42	32:38	6	1.275	251637	31576	125	312	253		M
327.8775	32:42	32:38	5	1.275	165813	21116	78	195	271	1.52(1.32-1.78)	M
PCB-119 (C86)											
325.8804	32:42	32:38	6	1.275	251637	31576	125	312	253		M
327.8775	32:42	32:38	5	1.275	165813	21116	78	195	271	1.52(1.32-1.78)	M
PCB-125 (C86)											
325.8804	32:42	32:38	6	1.275	251637	31576	125	312	253		M
327.8775	32:42	32:38	5	1.275	165813	21116	78	195	271	1.52(1.32-1.78)	M
PCB-85											
325.8804	33:19	33:19	0	1.299	58227	11240	125	312	90		M
327.8775	33:19	33:19	0	1.299	39829	7332	78	195	94	1.46(1.32-1.78)	M
PCB-116 (C85)											
325.8804	33:19	33:19	0	1.299	58227	11240	125	312	90		M
327.8775	33:19	33:19	0	1.299	39829	7332	78	195	94	1.46(1.32-1.78)	M
PCB-117 (C85)											
325.8804	33:19	33:19	0	1.299	58227	11240	125	312	90		M
327.8775	33:19	33:19	0	1.299	39829	7332	78	195	94	1.46(1.32-1.78)	M
PCB-110											
325.8804	33:30	33:30	-2	1.306	455145	90143	125	312	721		
327.8775	33:29	33:30	-3	1.306	289301	57279	78	195	734	1.57(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:30	33:30	-2	1.306	455145	90143	125	312	721		
327.8775	33:29	33:30	-3	1.306	289301	57279	78	195	734	1.57(1.32-1.78)	
PCB-82											
325.8804	33:48	33:53	-1	1.318	43864	9693	125	312	78		
327.8775	33:48	33:53	-2	1.318	27540	5514	78	195	71	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	ꞑ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-111											
325.8804	34:15						125	312			
327.8775	34:15						78	195			
PCB-120											
325.8804	34:43						125	312			
327.8775	34:43						78	195			
PCB-108											
325.8804	35:48	35:52	-1	1.396	28963	5563	191	477	29		M
327.8775	35:48	35:52	-1	1.396	21088	4086	155	387	26	1.37(1.32-1.78)	M
PCB-124 (C108)											
325.8804	35:48	35:52	-1	1.396	28963	5563	191	477	29		M
327.8775	35:48	35:52	-1	1.396	21088	4086	155	387	26	1.37(1.32-1.78)	M
PCB-107											
325.8804	36:02	36:07	-1	1.405	51305	9362	191	477	49		M
327.8775	36:03	36:07	0	1.406	31649	5725	155	387	37	1.62(1.32-1.78)	M
PCB-123											
325.8804	36:07	36:11	-3	1.000	8566	1692	191	477	9		M
327.8775	36:07	36:11	-3	1.000	5629	1321	155	387	9	1.52(1.32-1.78)	M
PCB-106											
325.8804	36:16						191	477			
327.8775	36:16						155	387			
PCB-118											
325.8804	36:28	36:28	-2	1.000	579990	112091	191	477	587		M
327.8775	36:28	36:28	-2	1.000	354833	73827	155	387	476	1.63(1.32-1.78)	M
PCB-122											
325.8804	36:49	36:50	-2	1.010	9507	2092	191	477	11		RQ
	Empc Correction				6416	1625	191	477	9		
327.8775	36:50	36:50	0	1.010	4140	1049	155	387	7	2.30(1.32-1.78)	
PCB-114											
325.8804	37:00	36:58	-1	1.001	13884	2836	191	477	15		
327.8775	37:00	36:58	-1	1.001	9084	1347	155	387	9	1.53(1.32-1.78)	
PCB-105											
325.8804	37:39	37:38	-1	1.001	203604	40463	191	477	212		
327.8775	37:38	37:38	-2	1.000	131359	26404	155	387	170	1.55(1.32-1.78)	
PCB-127											
325.8804	39:08						191	477			
327.8775	39:08						155	387			
PCB-126											
325.8804	40:46	40:44	1	1.002	1635	607	191	477	3		RQM
327.8775	40:45	40:44	0	1.001	2180	615	155	387	4	0.75(1.32-1.78)	M
	Empc Correction				1054	391	155	387	3		
PCB-155L											
371.8817	31:16	31:15	0	0.790	2149820	442724	58	145	7633		
373.8788	31:16	31:15	0	0.790	1675886	347945	79	197	4404	1.28(1.05-1.43)	
PCB-153L											
371.8817	38:19	38:18	-1	0.901	832463	158939	126	315	1261		
373.8788	38:19	38:18	-1	0.901	650059	122961	972	2430	127	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-138L											
371.8817	39:34	39:35	-2		2573727	497601	126	315	3949		
373.8788	39:34	39:35	-2		1991815	384786	972	2430	396	1.29(1.05-1.43)	
PCB-167L											
371.8817	42:33	42:33	-2	1.076	2745068	510112	126	315	4049		
373.8788	42:33	42:33	-2	1.076	2137630	406030	972	2430	418	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:42	43:41	-2	1.105	5366581	697798	126	315	5538		
373.8788	43:43	43:41	-1	1.105	4155938	540917	972	2430	556	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:42	43:41	-2	1.105	5366581	697798	126	315	5538		
373.8788	43:43	43:41	-1	1.105	4155938	540917	972	2430	556	1.29(1.05-1.43)	
PCB-169L											
371.8817	46:56	46:55	-2	1.186	2655356	491759	126	315	3903		
373.8788	46:56	46:55	-2	1.186	2095331	396258	972	2430	408	1.27(1.05-1.43)	
PCB-155											
359.8415	31:16	31:17	-2	1.000	562	225	2	5	113		RQ
	Empc Correction				376	205	2	5	103		
361.8385	31:19	31:17	1	1.001	304	166	7	17	24	1.85(1.05-1.43)	
PCB-152											
359.8415	31:30						2	5			
361.8385	31:30						7	17			
PCB-150											
359.8415	31:40						2	5			
361.8385	31:40						7	17			
PCB-136											
359.8415	32:02	32:01	0	1.024	20463	4687	2	5	2344		M
361.8385	32:02	32:01	0	1.024	15434	3916	7	17	559	1.33(1.05-1.43)	M
PCB-145											
359.8415	32:19						2	5			
361.8385	32:19						7	17			
PCB-148											
359.8415	33:50						2	5			
361.8385	33:50						7	17			
PCB-135											
359.8415	34:24	34:24	-1	1.100	49179	6354	2	5	3177		M
361.8385	34:29	34:24	4	1.103	39134	4520	7	17	646	1.26(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:24	34:24	-1	1.100	49179	6354	2	5	3177		M
361.8385	34:29	34:24	4	1.103	39134	4520	7	17	646	1.26(1.05-1.43)	M
PCB-154											
359.8415	34:40	34:42	-1	1.108	1668	598	2	5	299		RQM
	Empc Correction				1303	422	2	5	211		M
361.8385	34:40	34:42	-1	1.108	1051	341	7	17	49	1.59(1.05-1.43)	M
PCB-144											
359.8415	34:59	34:58	0	1.119	10151	1973	2	5	987		M
361.8385	34:57	34:58	-2	1.118	7825	1600	7	17	229	1.30(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-147											
359.8415	35:20	35:18	0	1.130	243165	48794	41	102	1190		
361.8385	35:20	35:18	0	1.130	174427	35415	70	175	506	1.39(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:20	35:18	0	1.130	243165	48794	41	102	1190		
361.8385	35:20	35:18	0	1.130	174427	35415	70	175	506	1.39(1.05-1.43)	
PCB-134											
359.8415	35:31	35:41	-8	1.136	19700	4253	41	102	104		RQa
361.8385	35:32	35:41	-7	1.136	20126	4653	70	175	66	0.98(1.05-1.43)	a
Empc Correction					15887	3429	70	175	49		
PCB-143 (C134)											
359.8415	35:31	35:41	-8	1.136	19700	4253	41	102	104		RQa
361.8385	35:32	35:41	-7	1.136	20126	4653	70	175	66	0.98(1.05-1.43)	a
Empc Correction					15887	3429	70	175	49		
PCB-139											
359.8415	35:55	35:58	-2	1.149	9574	2282	41	102	56		
361.8385	35:55	35:58	-2	1.149	9138	2140	70	175	31	1.05(1.05-1.43)	
PCB-140 (C139)											
359.8415	35:55	35:58	-2	1.149	9574	2282	41	102	56		
361.8385	35:55	35:58	-2	1.149	9138	2140	70	175	31	1.05(1.05-1.43)	
PCB-131											
359.8415	36:09	36:09	0	1.156	8047	1262	41	102	31		M
361.8385	36:09	36:09	0	1.156	6762	1433	70	175	20	1.19(1.05-1.43)	M
PCB-142											
359.8415	36:18						41	102			
361.8385	36:18						70	175			
PCB-132											
359.8415	36:36	36:39	-1	1.170	136872	27309	41	102	666		
361.8385	36:35	36:39	-2	1.170	103623	22304	70	175	319	1.32(1.05-1.43)	
PCB-133											
359.8415	37:05	37:08	-2	1.186	5761	1518	41	102	37		RQ
Empc Correction					4192	1106	41	102	27		
361.8385	37:06	37:08	-1	1.186	3381	892	70	175	13	1.70(1.05-1.43)	
PCB-165											
359.8415	37:29						41	102			
361.8385	37:29						70	175			
PCB-146											
359.8415	37:45	37:45	-1	0.887	51716	9729	41	102	237		
361.8385	37:45	37:45	-1	0.887	42724	8585	70	175	123	1.21(1.05-1.43)	
PCB-161											
359.8415	37:52						41	102			
361.8385	37:52						70	175			
PCB-153											
359.8415	38:21	38:19	-3	0.901	305034	58331	41	102	1423		
361.8385	38:21	38:19	-3	0.901	262093	52037	70	175	743	1.16(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-168 (C153)											
359.8415	38:21	38:19	-3	0.901	305034	58331	41	102	1423		
361.8385	38:21	38:19	-3	0.901	262093	52037	70	175	743	1.16(1.05-1.43)	
PCB-141											
359.8415	38:34	38:31	0	0.906	67606	12451	41	102	304		
361.8385	38:32	38:31	-2	0.905	52750	10861	70	175	155	1.28(1.05-1.43)	
PCB-130											
359.8415	38:58	38:56	0	0.916	27200	5698	41	102	139		M
361.8385	38:56	38:56	-2	0.915	20113	3748	70	175	54	1.35(1.05-1.43)	M
PCB-137											
359.8415	39:10	39:11	-2	0.920	25750	5267	41	102	128		
361.8385	39:09	39:11	-3	0.920	22635	3922	70	175	56	1.14(1.05-1.43)	
PCB-164											
359.8415	39:17	39:18	-2	0.923	24099	4133	41	102	101		
361.8385	39:19	39:18	0	0.924	17293	3428	70	175	49	1.39(1.05-1.43)	
PCB-129											
359.8415	39:35	39:36	-3	0.930	389760	73021	41	102	1781		
361.8385	39:36	39:36	-2	0.930	323082	61306	70	175	876	1.21(1.05-1.43)	
PCB-138 (C129)											
359.8415	39:35	39:36	-3	0.930	389760	73021	41	102	1781		
361.8385	39:36	39:36	-2	0.930	323082	61306	70	175	876	1.21(1.05-1.43)	
PCB-160 (C129)											
359.8415	39:35	39:36	-3	0.930	389760	73021	41	102	1781		
361.8385	39:36	39:36	-2	0.930	323082	61306	70	175	876	1.21(1.05-1.43)	
PCB-163 (C129)											
359.8415	39:35	39:36	-3	0.930	389760	73021	41	102	1781		
361.8385	39:36	39:36	-2	0.930	323082	61306	70	175	876	1.21(1.05-1.43)	
PCB-158											
359.8415	39:58	39:57	-2	0.939	58071	11107	41	102	271		
361.8385	39:59	39:57	-1	0.939	45978	9940	70	175	142	1.26(1.05-1.43)	
PCB-128											
359.8415	40:50	40:49	-1	0.960	58462	9787	41	102	239		RQ
	Empc Correction				49871	8202	41	102	200		
361.8385	40:52	40:49	1	0.960	40219	6615	70	175	95	1.45(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:50	40:49	-1	0.960	58462	9787	41	102	239		RQ
	Empc Correction				49871	8202	41	102	200		
361.8385	40:52	40:49	1	0.960	40219	6615	70	175	95	1.45(1.05-1.43)	
PCB-159											
359.8415	41:49						41	102			
361.8385	41:49						70	175			
PCB-162											
359.8415	42:07						41	102			
361.8385	42:07						70	175			
PCB-167											
359.8415	42:35	42:36	-2	1.001	8759	1653	41	102	40		RQ
361.8385	42:35	42:36	-2	1.001	9441	2479	70	175	35	0.93(1.05-1.43)	
	Empc Correction				7063	1333	70	175	19		

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156											
359.8415	43:43	43:47	-3	1.000	22555	4560	41	102	111	1.16(1.05-1.43)	
361.8385	43:42	43:47	-4	1.000	19475	3890	70	175	56		
PCB-157 (C156)											
359.8415	43:43	43:47	-3	1.000	22555	4560	41	102	111	1.16(1.05-1.43)	
361.8385	43:42	43:47	-4	1.000	19475	3890	70	175	56		
PCB-169											
359.8415	46:57						41	102			
361.8385	46:57						70	175			
PCB-188L											
405.8428	36:58	36:58	-2	0.820	2221028	435856	110	275	3962	1.06(0.89-1.21)	
407.8398	36:58	36:58	-2	0.820	2096419	406970	1	2	406970		
PCB-178L											
405.8428	40:01	40:01	-2	0.887	1678655	327887	110	275	2981	1.04(0.89-1.21)	
407.8398	40:01	40:01	-2	0.887	1621393	301413	1	2	301413		
PCB-180L											
405.8428	45:06	45:08	-1		1858147	342423	110	275	3113	1.05(0.89-1.21)	
407.8398	45:06	45:08	-1		1772394	338308	1	2	338308		
PCB-170L											
405.8428	46:21	46:21	-2	1.028	1430699	267057	110	275	2428	1.05(0.89-1.21)	
407.8398	46:21	46:21	-2	1.028	1356133	255875	1	2	255875		
PCB-189L											
405.8428	49:28	49:27	-1	1.097	2810402	524522	595	1487	882	1.04(0.89-1.21)	
407.8398	49:28	49:27	-1	1.097	2691375	494023	558	1395	885		
PCB-188											
393.8025	37:00						1	2			
395.7995	37:00						1	2			
PCB-179											
393.8025	37:22	37:20	0	1.011	6691	1199	1	2	1199	1.15(0.89-1.21)	
395.7995	37:20	37:20	-2	1.010	5830	1303	1	2	1303		
PCB-184											
393.8025	37:50	37:52	-3	1.023	259	105	1	2	105	0.38(0.89-1.21)	RQM
395.7995	37:50	37:52	-3	1.023	683	157	1	2	157		M
	Empc Correction				246	100	1	2	100		M
PCB-176											
393.8025	38:14	38:14	0	1.034	2349	390	1	2	390	0.85(0.89-1.21)	RQ
395.7995	38:13	38:14	-1	1.034	2754	614	1	2	614		
	Empc Correction				2237	371	1	2	371		
PCB-186											
393.8025	38:40						1	2			
395.7995	38:40						1	2			
PCB-178											
393.8025	40:01	40:02	-3	1.083	2257	356	1	2	356	1.55(0.89-1.21)	RQM
	Empc Correction				1531	521	1	2	521		M
395.7995	40:04	40:02	0	1.084	1459	497	1	2	497		M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-175											RQU
393.8025	40:40						1	2			
395.7995	40:40						1	2			
PCB-187											RQM
393.8025	40:57	40:55	-1	1.108	11652	2425	1	2	2425		M
	Empc Correction				8795	1657	1	2	1657		
395.7995	40:58	40:55	0	1.108	8377	1579	1	2	1579	1.39(0.89-1.21)	M
PCB-182											
393.8025	41:11						1	2			
395.7995	41:11						1	2			
PCB-183											
393.8025	41:34	41:39	-1	1.125	8852	2060	1	2	2060		
395.7995	41:34	41:39	-1	1.125	8482	1688	1	2	1688	1.04(0.89-1.21)	
PCB-185 (C183)											
393.8025	41:34	41:39	-1	1.125	8852	2060	1	2	2060		
395.7995	41:34	41:39	-1	1.125	8482	1688	1	2	1688	1.04(0.89-1.21)	
PCB-174											RQM
393.8025	41:47	41:47	-3	1.130	7544	1741	1	2	1741		M
395.7995	41:49	41:47	0	1.131	10684	1865	1	2	1865	0.71(0.89-1.21)	M
	Empc Correction				7184	1658	1	2	1658		
PCB-177											RQ
393.8025	42:14	42:15	-2	1.142	6529	1481	1	2	1481		
	Empc Correction				4773	1129	1	2	1129		
395.7995	42:13	42:15	-3	1.142	4546	1076	1	2	1076	1.44(0.89-1.21)	
PCB-181											RQ
393.8025	42:38	42:38	0	1.153	289	128	1	2	128		
395.7995	42:36	42:38	-3	1.152	335	175	1	2	175	0.86(0.89-1.21)	
	Empc Correction				275	121	1	2	121		
PCB-171											RQ
393.8025	42:50	42:52	-2	1.159	4344	1023	1	2	1023		
	Empc Correction				2985	926	1	2	926		
395.7995	42:52	42:52	0	1.160	2843	882	1	2	882	1.53(0.89-1.21)	
PCB-173 (C171)											RQ
393.8025	42:50	42:52	-2	1.159	4344	1023	1	2	1023		
	Empc Correction				2985	926	1	2	926		
395.7995	42:52	42:52	0	1.160	2843	882	1	2	882	1.53(0.89-1.21)	
PCB-172											RQM
393.8025	44:30	44:30	0	0.900	2287	850	1	2	850		M
	Empc Correction				412	123	1	2	123		
395.7995	44:29	44:30	-2	0.899	393	118	1	2	118	5.82(0.89-1.21)	
PCB-192											
393.8025	44:45						1	2			
395.7995	44:45						1	2			
PCB-180											
393.8025	45:08	45:10	1	0.912	11828	2112	1	2	2112		
395.7995	45:08	45:10	1	0.912	12275	2425	1	2	2425	0.96(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-193 (C180)											
393.8025	45:08	45:10	1	0.912	11828	2112	1	2	2112	0.96(0.89-1.21)	
395.7995	45:08	45:10	1	0.912	12275	2425	1	2	2425		
PCB-191											
393.8025	45:30						1	2			
395.7995	45:30						1	2			
PCB-170											
393.8025	46:21	46:22	-4	0.937	4245	706	1	2	706	0.77(0.89-1.21)	RQ
395.7995	46:24	46:22	0	0.938	5535	1667	1	2	1667		
Empc Correction					4042	672	1	2	672		
PCB-190											
393.8025	46:55						1	2			
395.7995	46:55						1	2			
PCB-189											
393.8025	49:29						20	50			
395.7995	49:29						17	42			
PCB-202L											
439.8038	42:20	42:19	-1	0.821	1554157	285407	80	200	3568	0.91(0.76-1.02)	
441.8008	42:20	42:19	-1	0.821	1701802	320615	70	175	4580		
PCB-194L											
439.8038	51:34	51:36	-1		2185451	403026	117	292	3445	0.89(0.76-1.02)	
441.8008	51:34	51:36	-1		2461440	455672	121	302	3766		
PCB-205L											
439.8038	52:02	52:02	-2	1.009	2307790	414650	117	292	3544	0.89(0.76-1.02)	
441.8008	52:02	52:02	-2	1.009	2582776	471390	121	302	3896		
PCB-202											
427.7635	42:22	42:22	-1	1.001	78	31	2	5	16	0.18(0.76-1.02)	RQM
429.7606	42:21	42:22	-3	1.000	440	149	11	27	14		M
Empc Correction					87	34	11	27	3		
PCB-201											
427.7635	43:16						2	5			
429.7606	43:16						11	27			
PCB-204											
427.7635	43:57						2	5			
429.7606	43:57						11	27			
PCB-197											
427.7635	44:10						2	5			
429.7606	44:10						11	27			
PCB-200											
427.7635	44:18						2	5			
429.7606	44:18						11	27			
PCB-198											
427.7635	47:06	47:05	1	1.113	786	278	2	5	139	1.29(0.76-1.02)	RQ
Empc Correction					542	236	2	5	118		
429.7606	47:06	47:05	0	1.112	610	266	11	27	24		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-199 (C198)											RQ
427.7635	47:06	47:05	1	1.113	786	278	2	5	139		
	Empc Correction				542	236	2	5	118		
429.7606	47:06	47:05	0	1.112	610	266	11	27	24	1.29(0.76-1.02)	
PCB-196											
427.7635	47:43						2	5			
429.7606	47:43						11	27			
PCB-203											RQM
427.7635	47:58	47:55	0	0.922	220	122	2	5	61		
	Empc Correction				128	73	2	5	37		
429.7606	47:57	47:55	0	0.921	144	83	11	27	8	1.53(0.76-1.02)	M
PCB-195											
427.7635	49:15						3	7			
429.7606	49:15						11	27			
PCB-194											RQU
427.7635	51:37						3	7			
429.7606	51:37						11	27			
PCB-205											
427.7635	52:04						3	7			
429.7606	52:04						11	27			
PCB-208L											
473.7648	48:59	48:59	-2	0.950	1902318	356458	469	1172	760		
475.7619	48:59	48:59	-2	0.950	2413289	452865	490	1225	924	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:47	53:47	-2	1.043	1425046	261790	469	1172	558		
475.7619	53:47	53:47	-2	1.043	1775904	330651	490	1225	675	0.80(0.65-0.89)	
PCB-208											
461.7246	49:00						229	572			
463.7216	49:00						210	525			
PCB-207											
461.7246	49:56						229	572			
463.7216	49:56						210	525			
PCB-206											
461.7246	53:48						229	572			
463.7216	53:48						210	525			
PCB-209L											
507.7258	55:24	55:24	-2	1.074	1405103	245601	85	212	2889		
509.7229	55:24	55:24	-2	1.074	1997341	341931	47	117	7275	0.70(0.59-0.79)	
DCB Decachlorobiphenyl											RQM
495.6856	55:26	55:25	-1	1.001	1521	306	7	17	44		M
	Empc Correction				1271	329	7	17	47		
497.6826	55:26	55:25	-1	1.001	1843	477	5	12	95	0.83(0.59-0.79)	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d

Injection Date: 11-Jun-2024 19:08:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 4 COMBINED

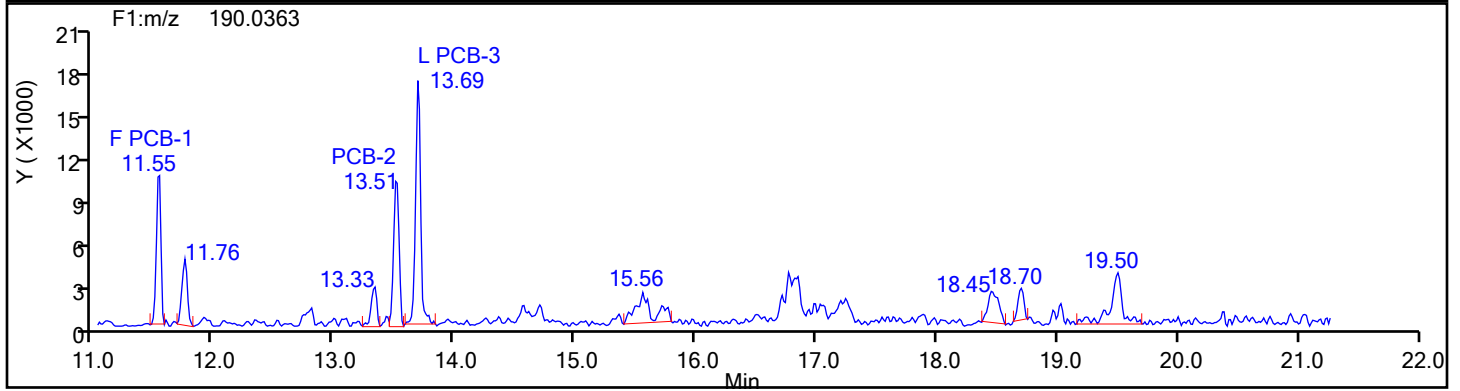
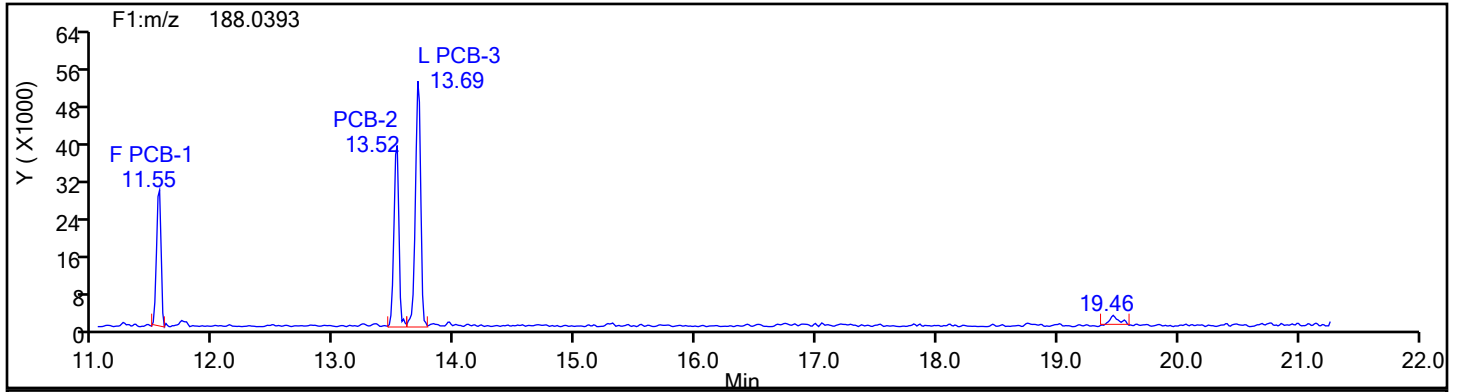
Worklist#: 87502

Sample Line#: 12

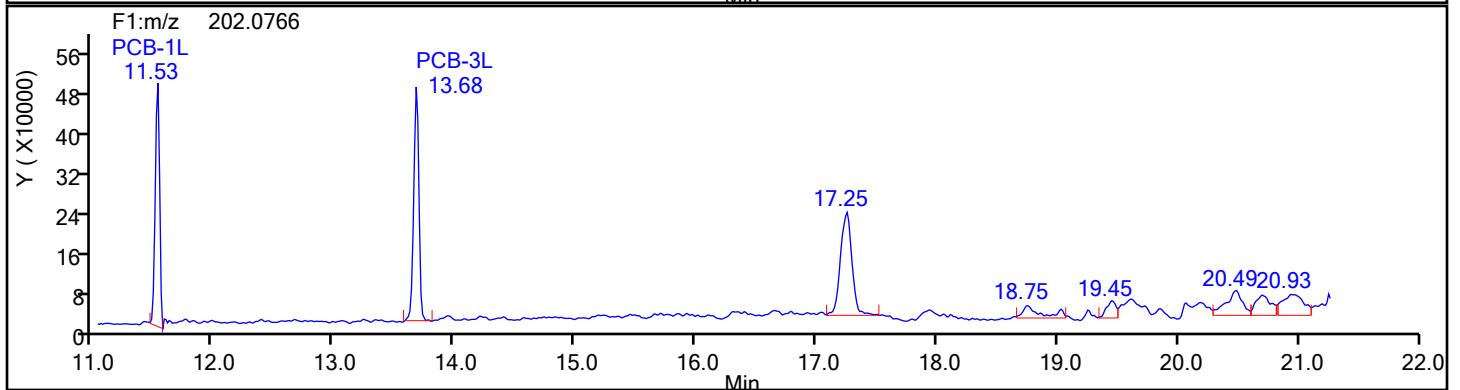
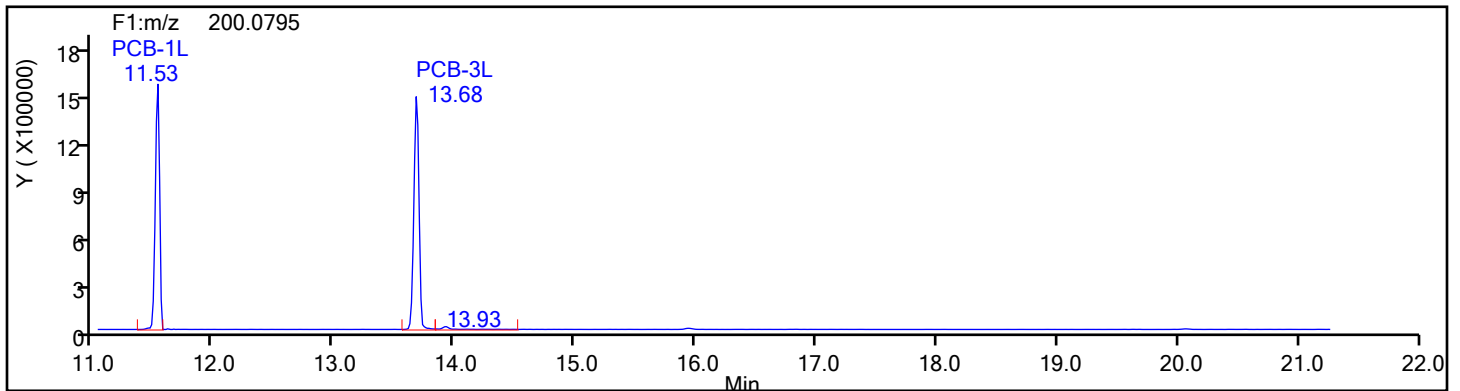
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1

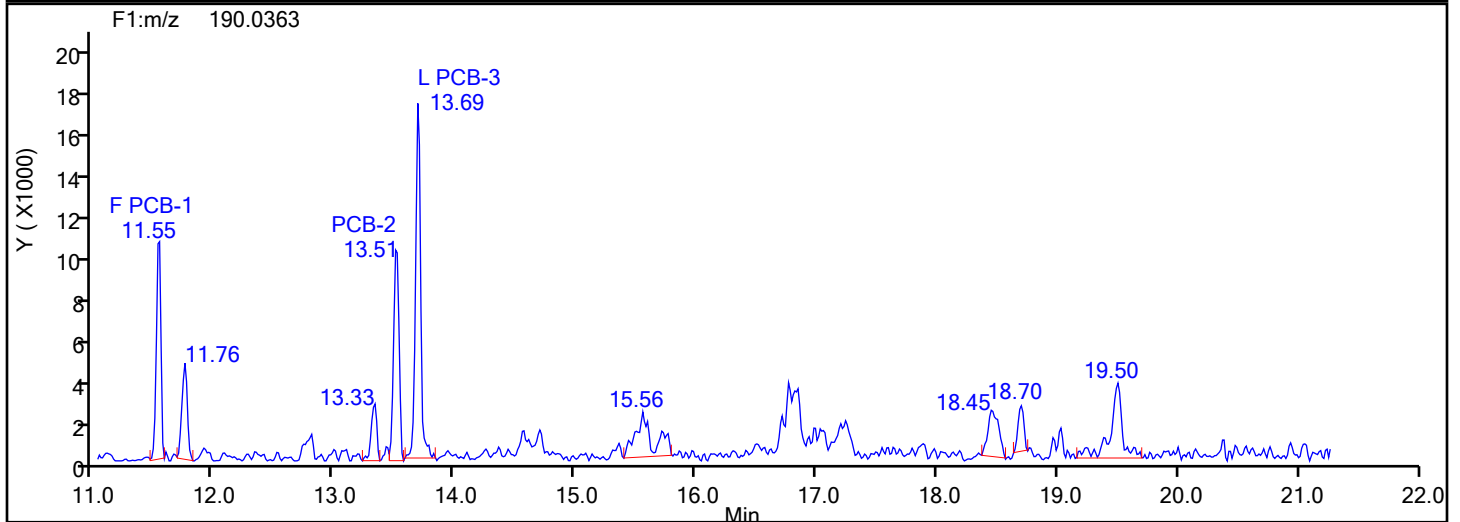
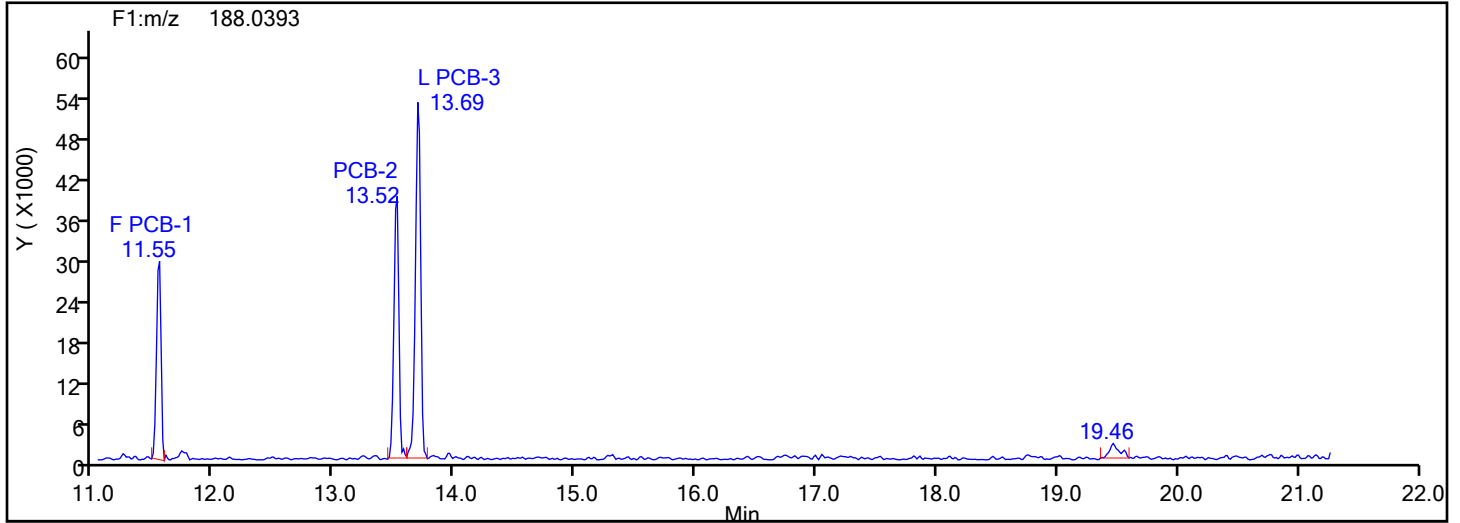


MoPCB F1 Standards

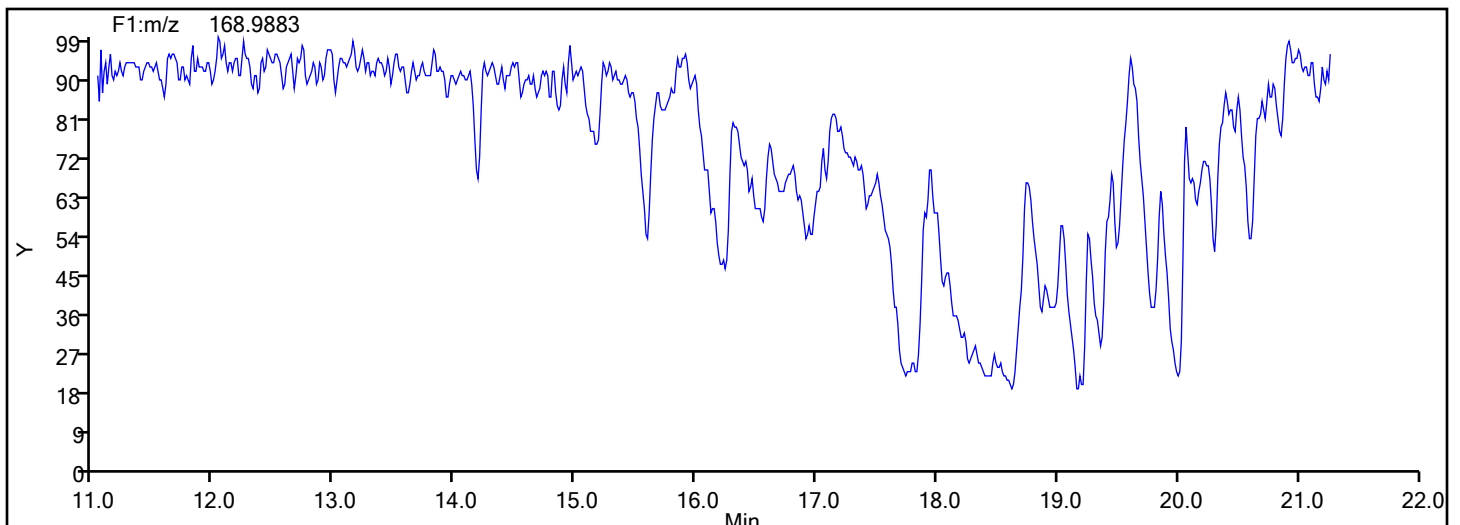


Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

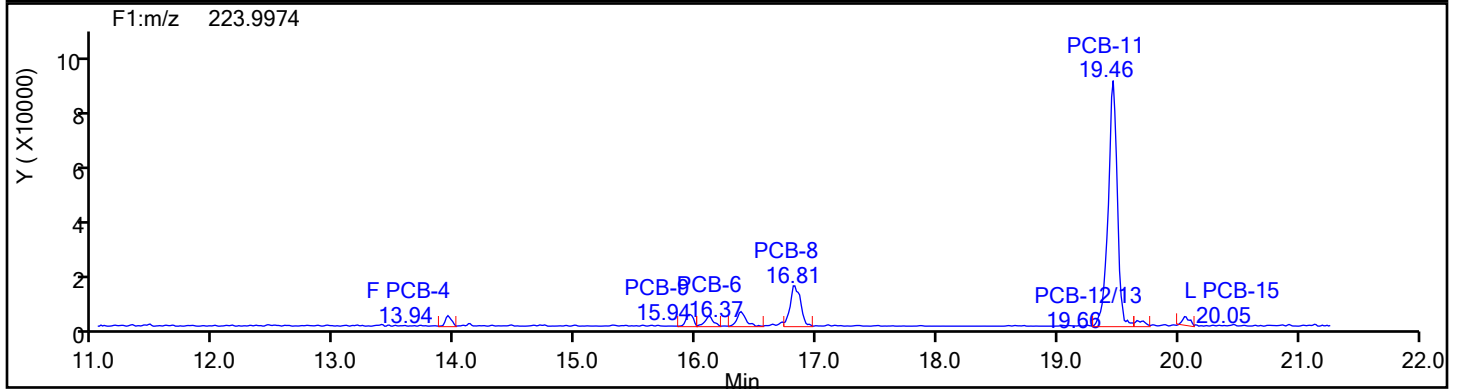
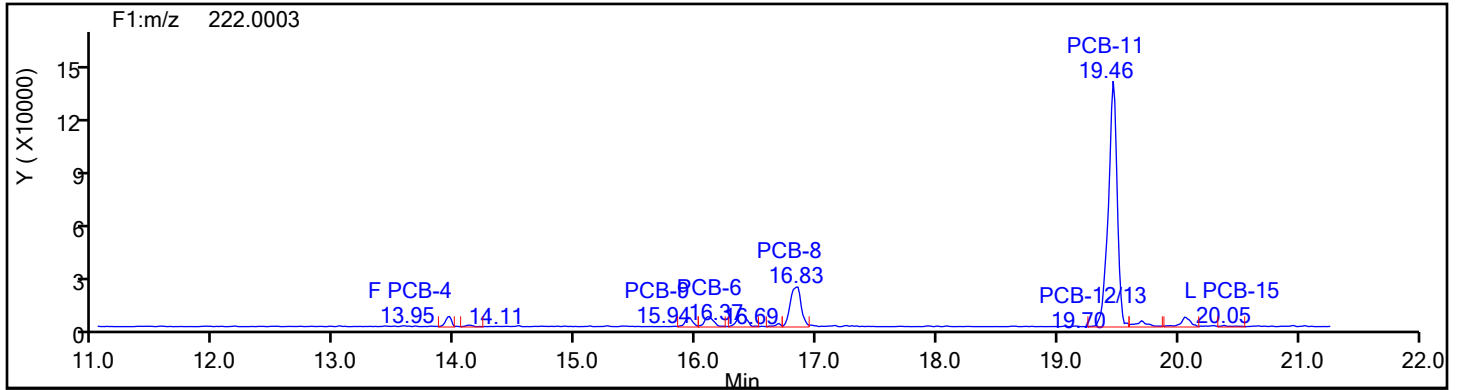


MoPCB F1 Lock Mass

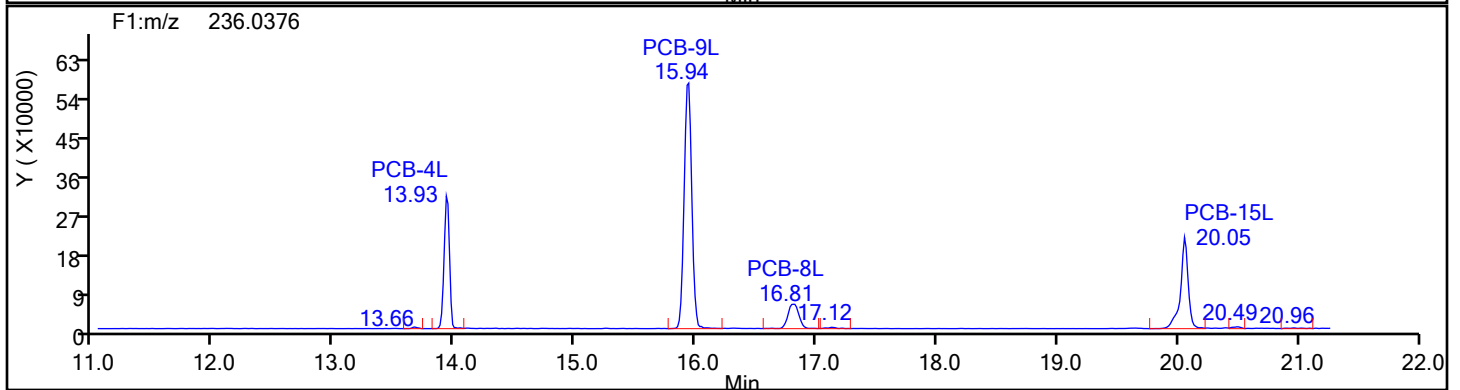
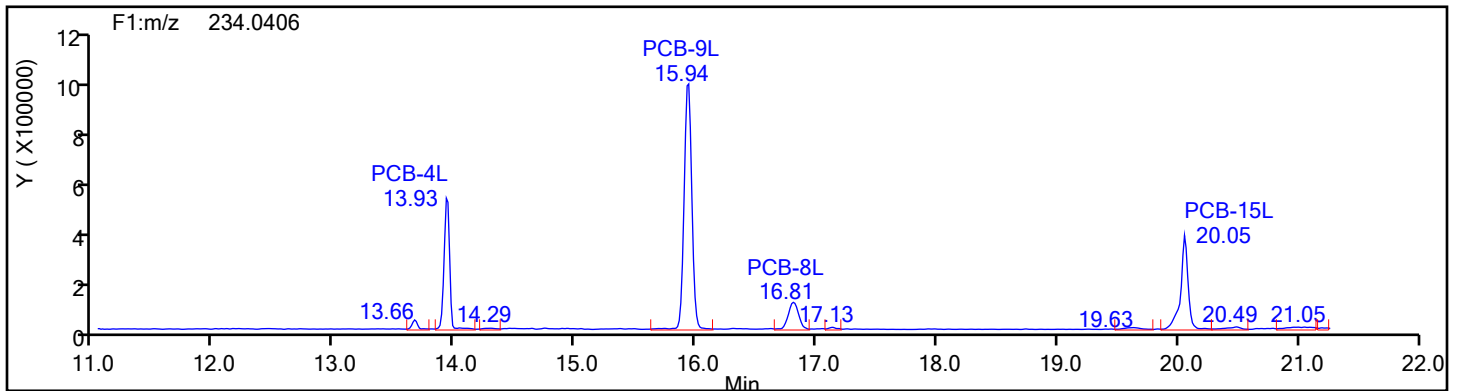


Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

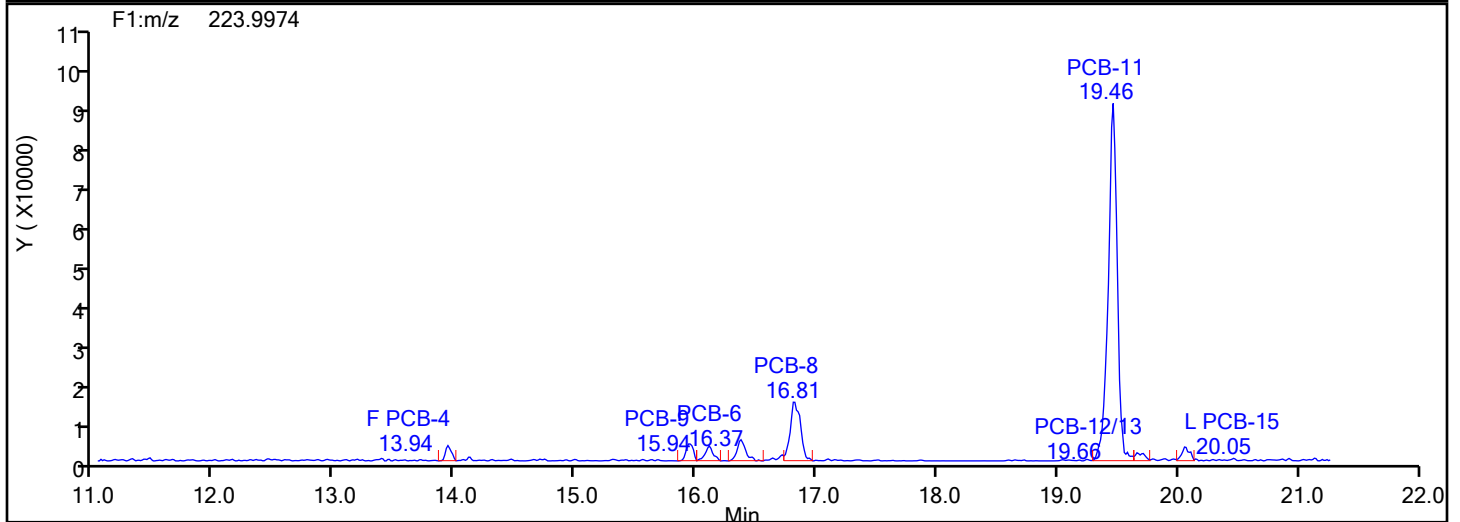
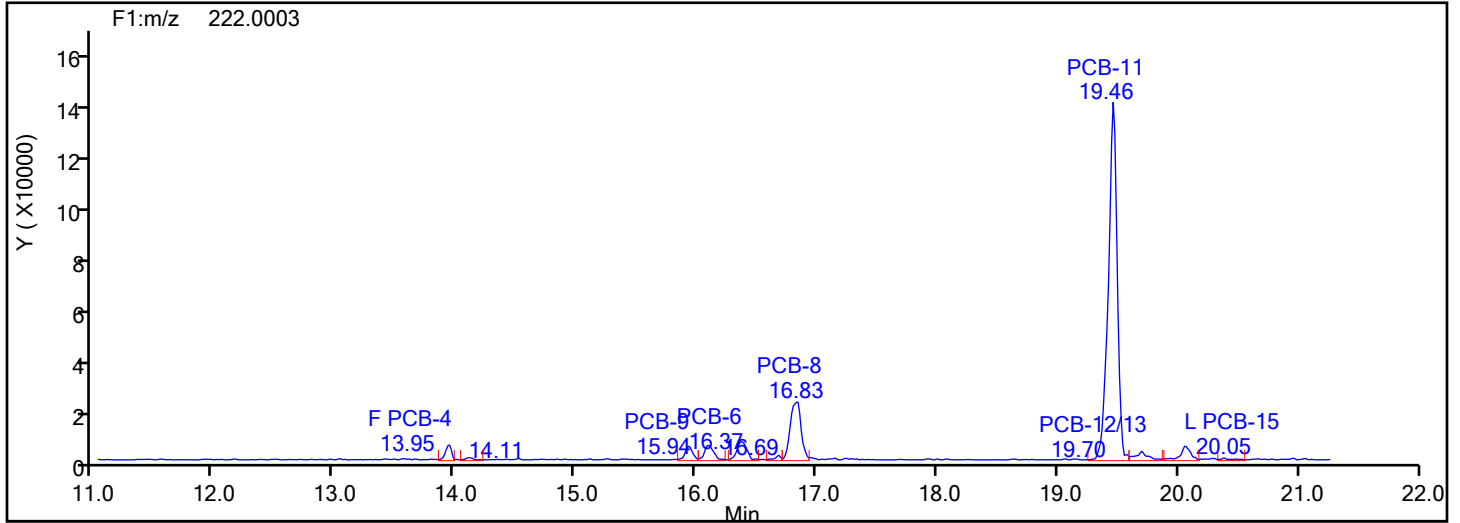


DiPCB F1 Standards

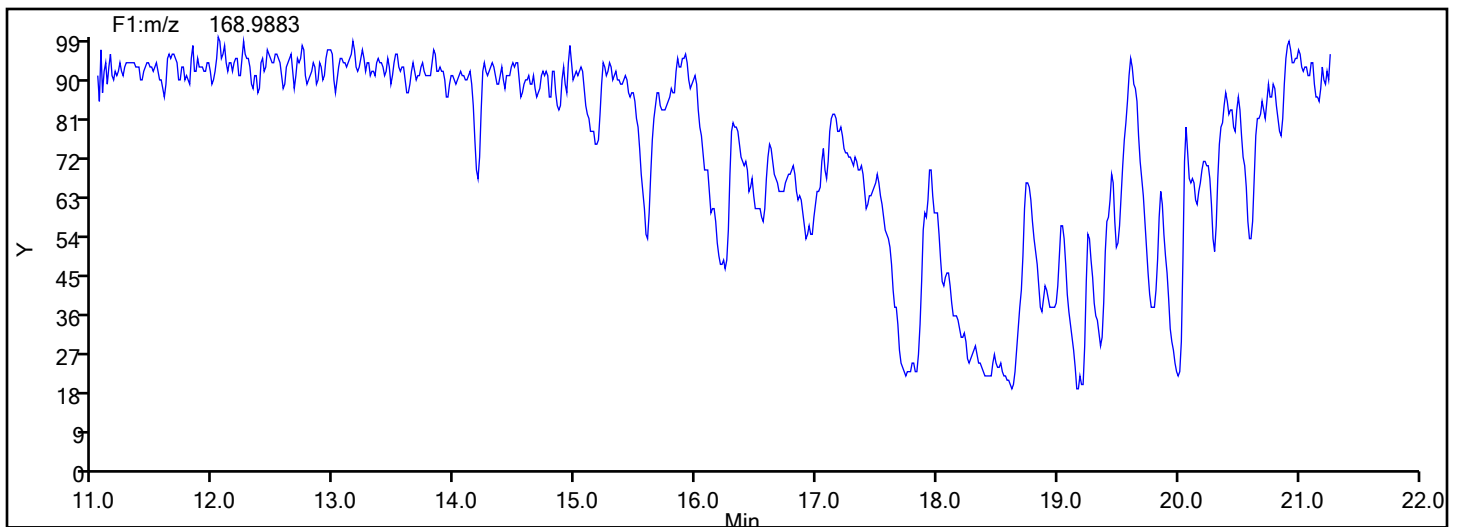


Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

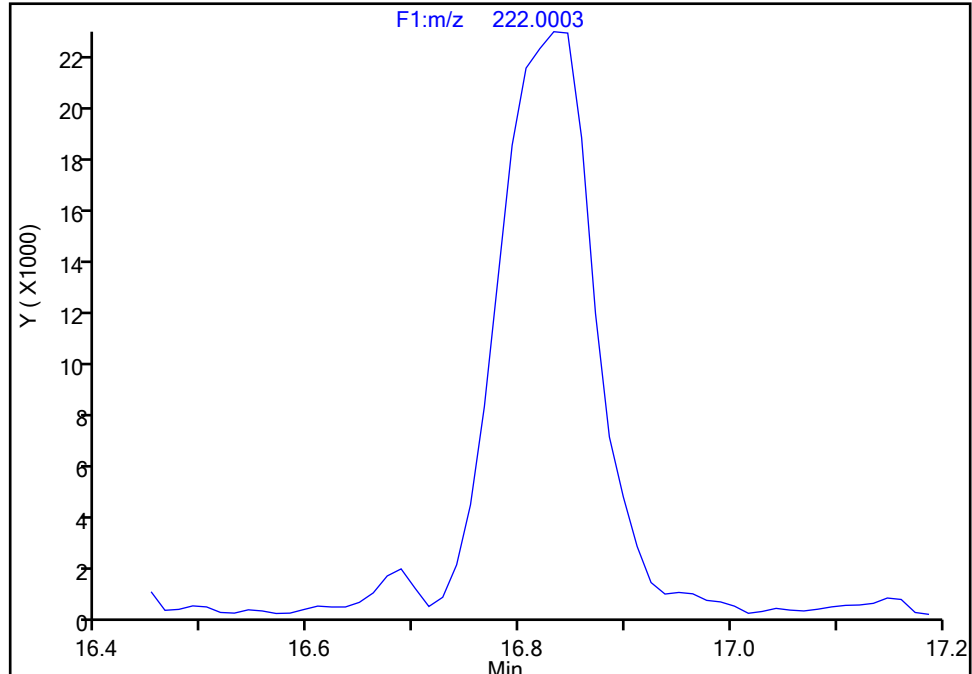
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

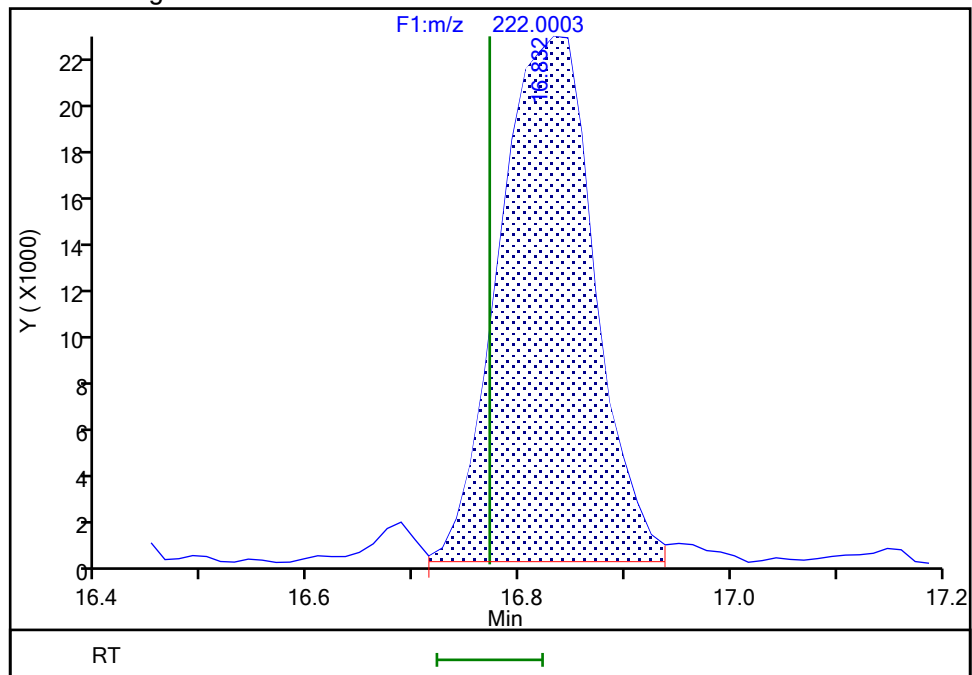
Not Detected
Expected RT: 16.77

Processing Integration Results



RT: 16.83
Area: 138077
Amount: 5.596785
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:12:47 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

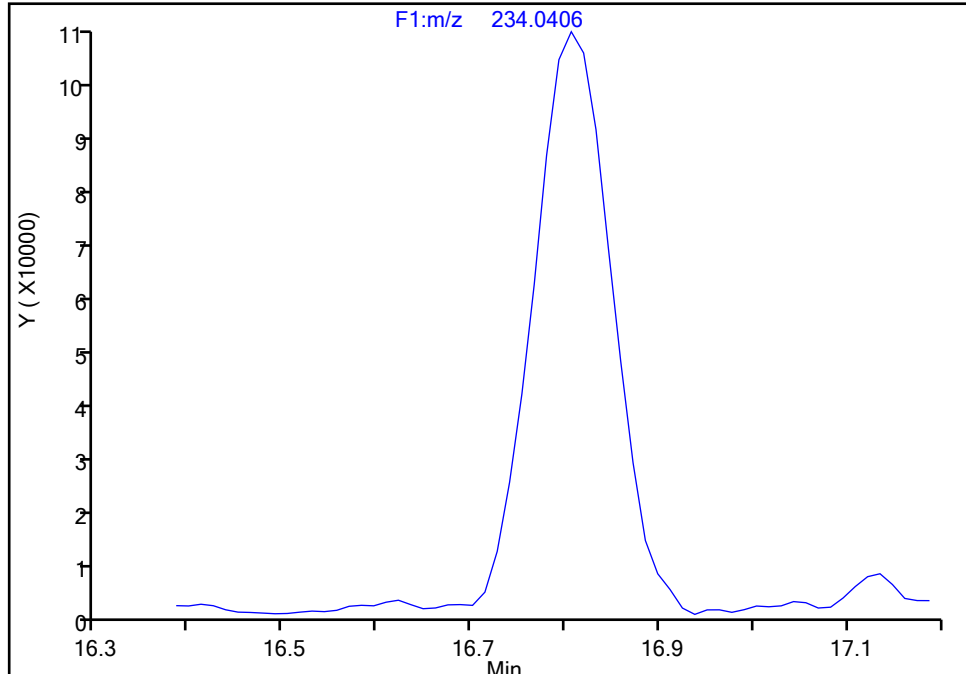
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

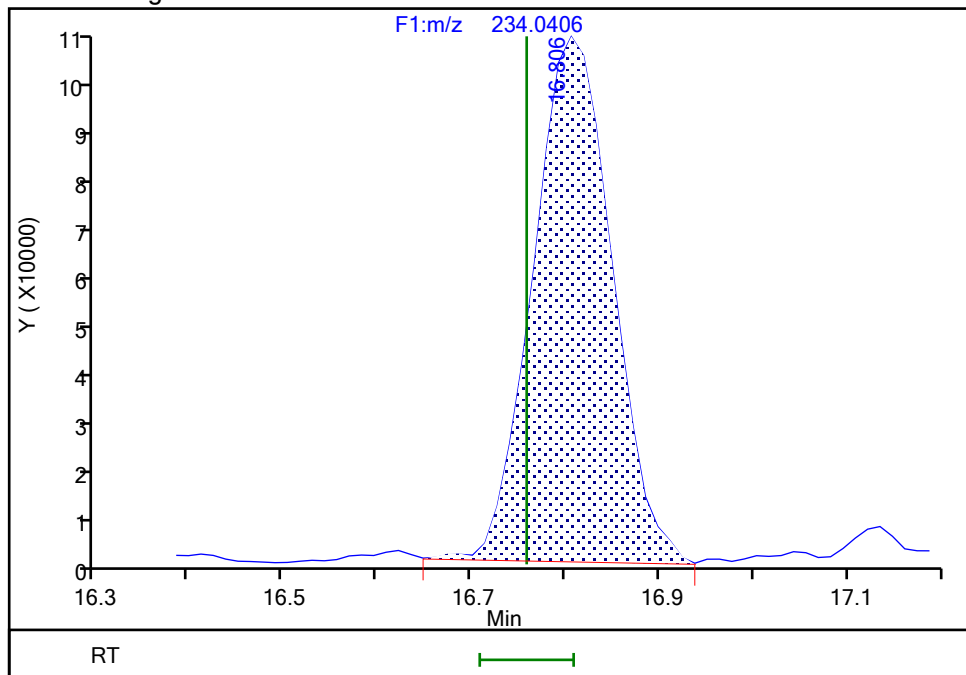
Not Detected
Expected RT: 16.76

Processing Integration Results



RT: 16.81
Area: 586843
Amount: 31.571029
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:12:21 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

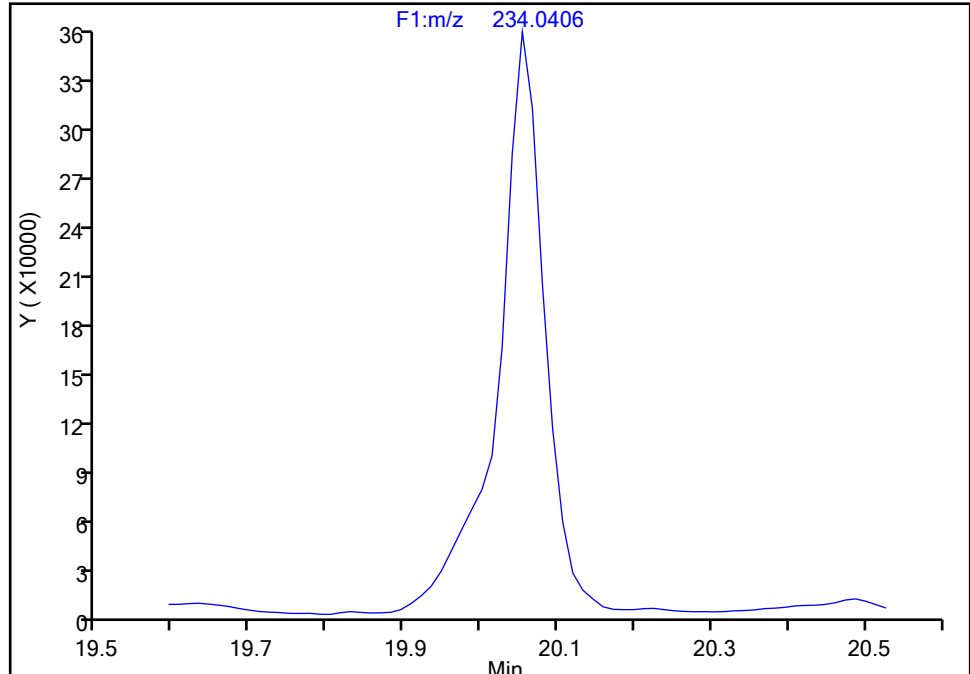
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-15L, CAS: 208263-67-6

Signal: 1

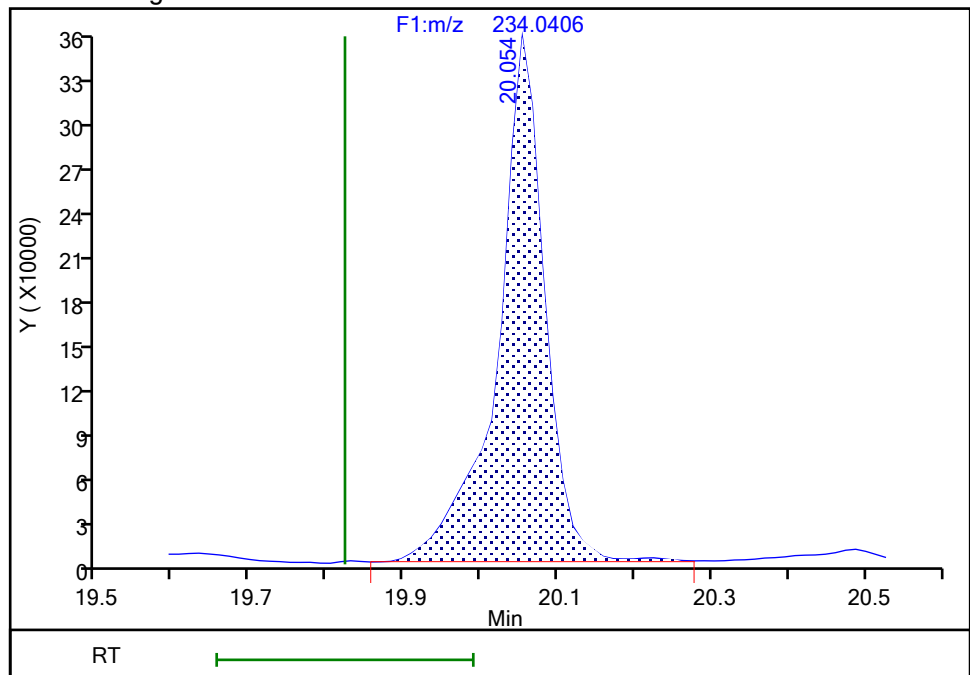
Not Detected
Expected RT: 19.82

Processing Integration Results



RT: 20.05
Area: 1503149
Amount: 34.314036
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:12:26 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d

Injection Date: 11-Jun-2024 19:08:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 4 COMBINED

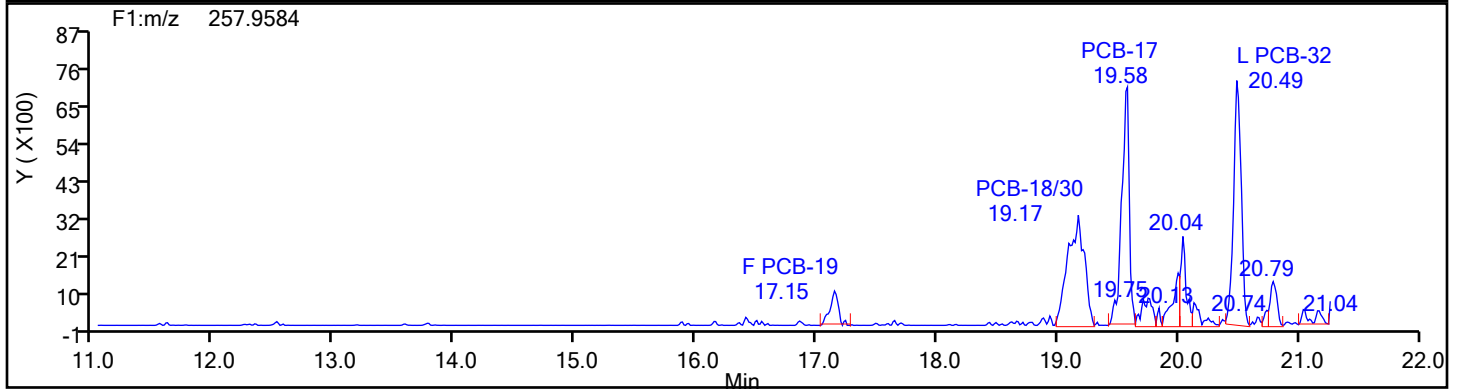
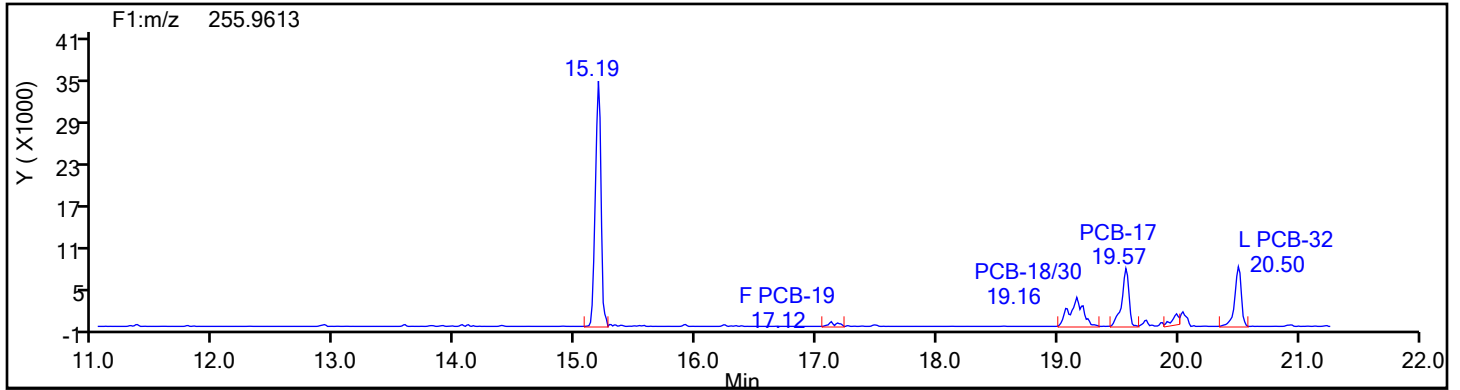
Worklist#: 87502

Sample Line#: 12

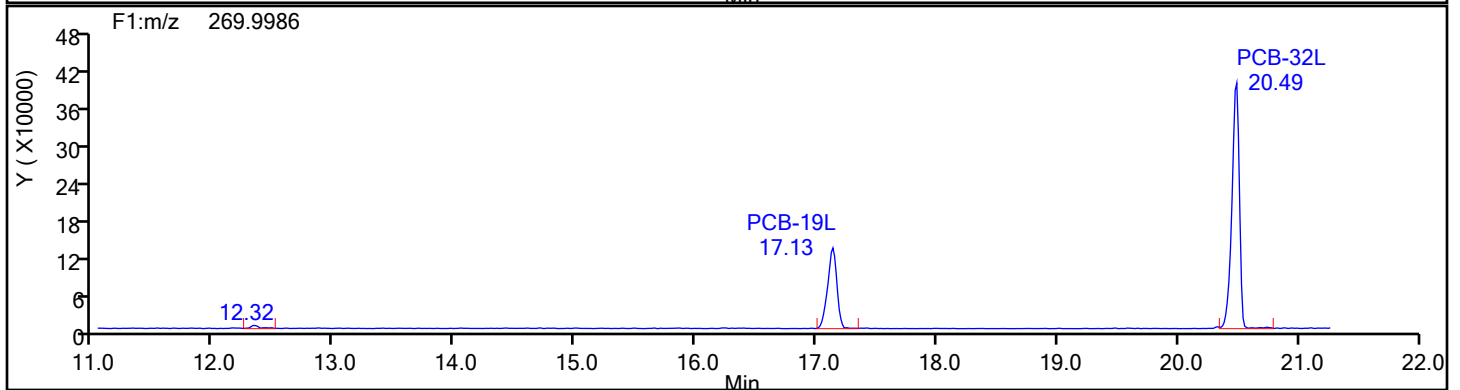
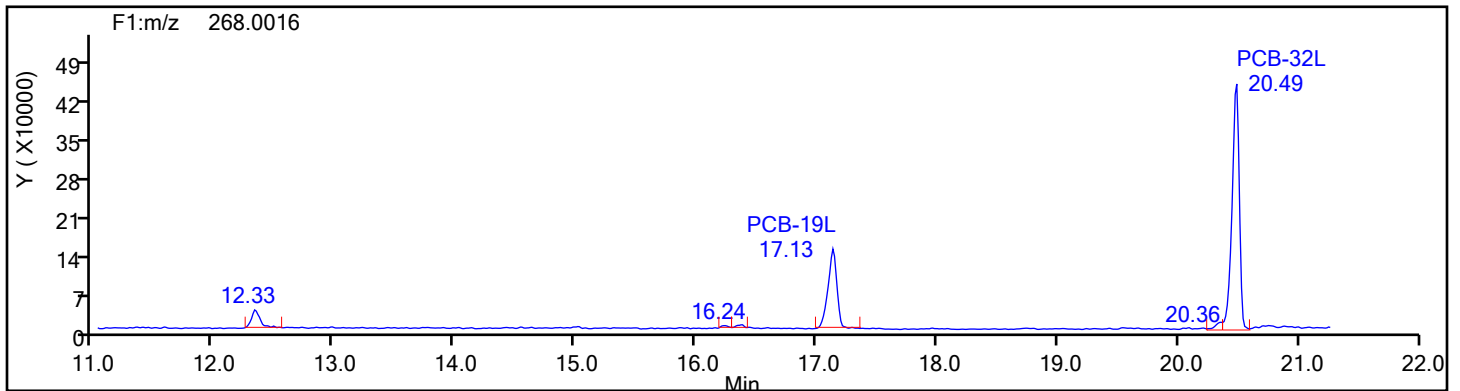
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1

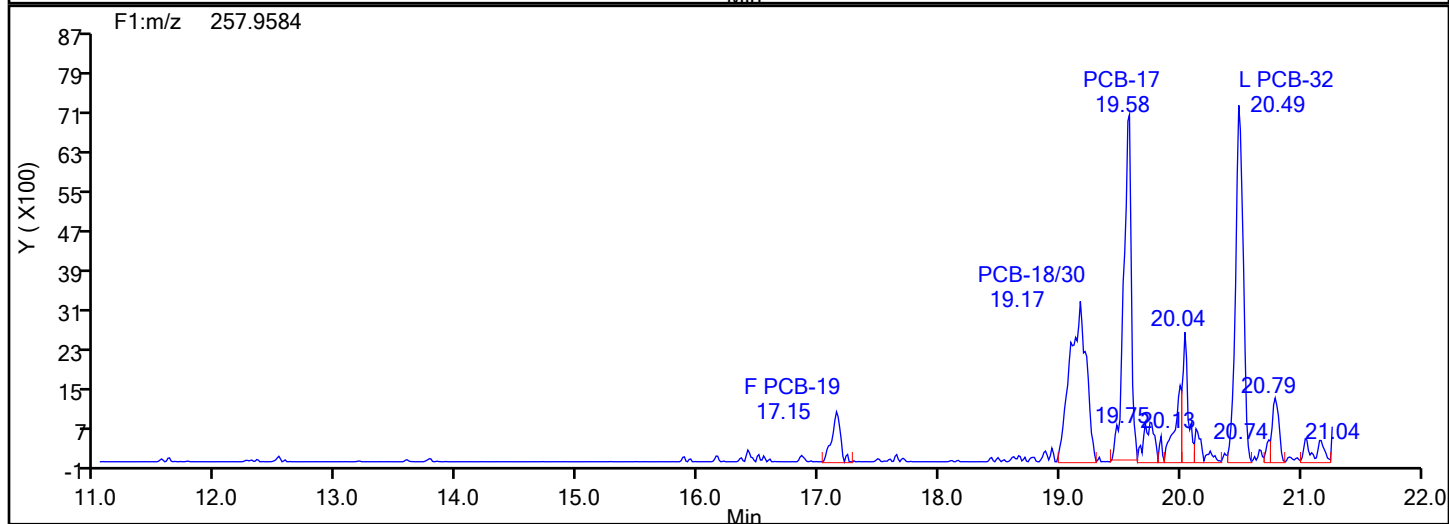
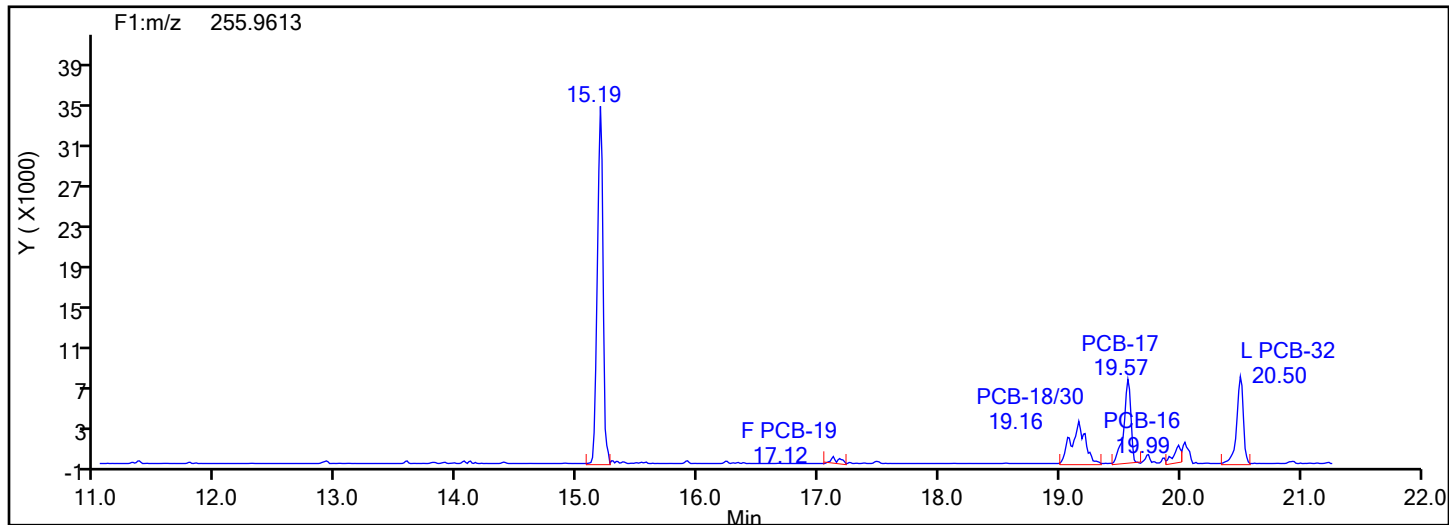


TriPCB F1 Standards

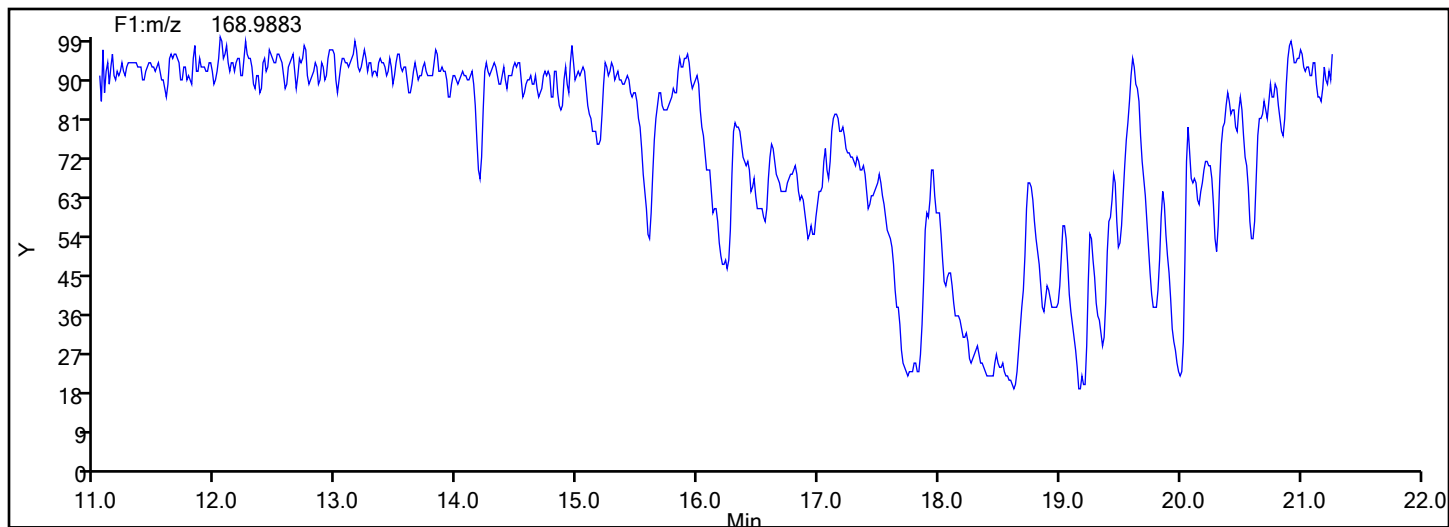


Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

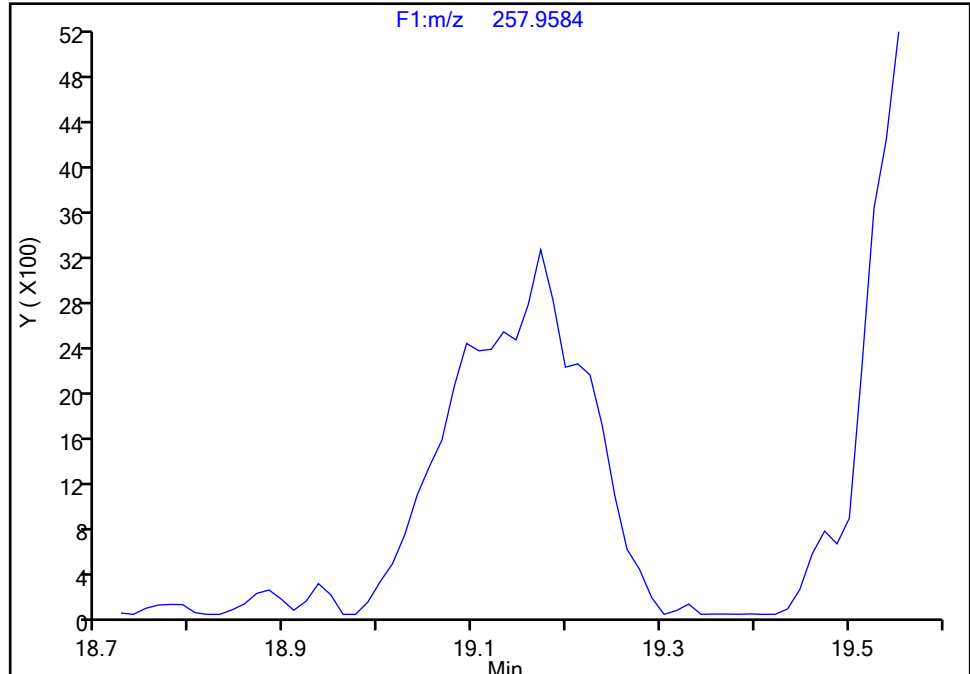
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 2

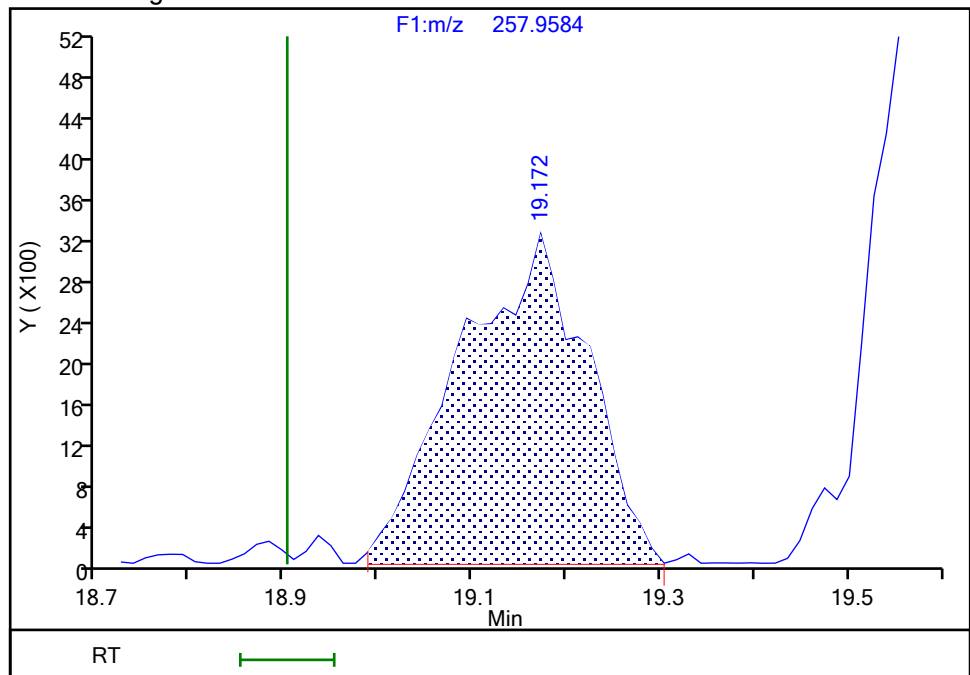
Not Detected
Expected RT: 18.90

Processing Integration Results



RT: 19.17
Area: 30356
Amount: 2.506854
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:13:26 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

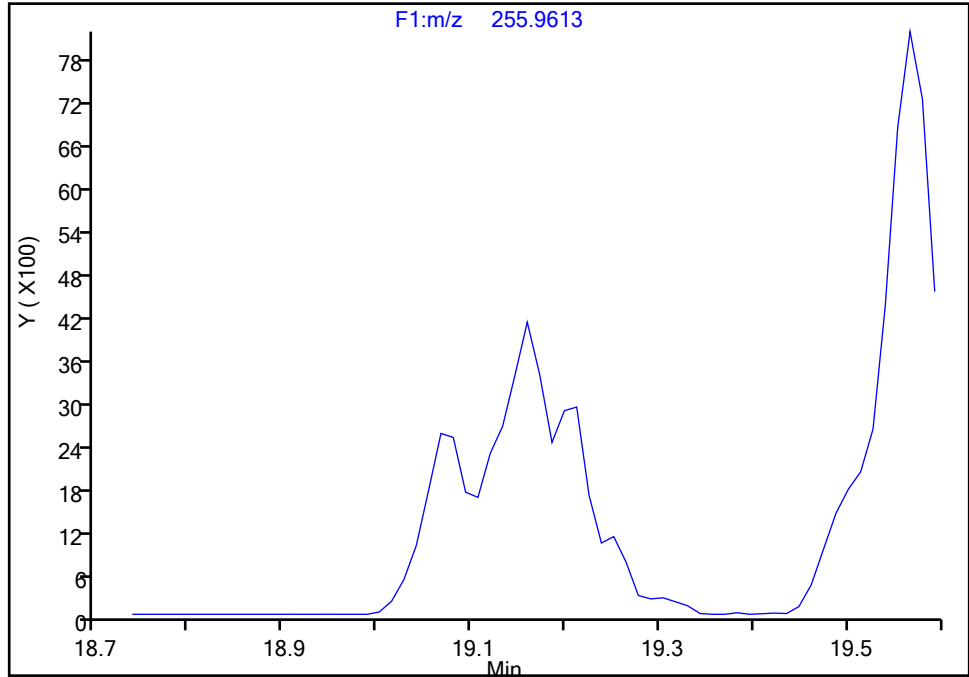
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 1

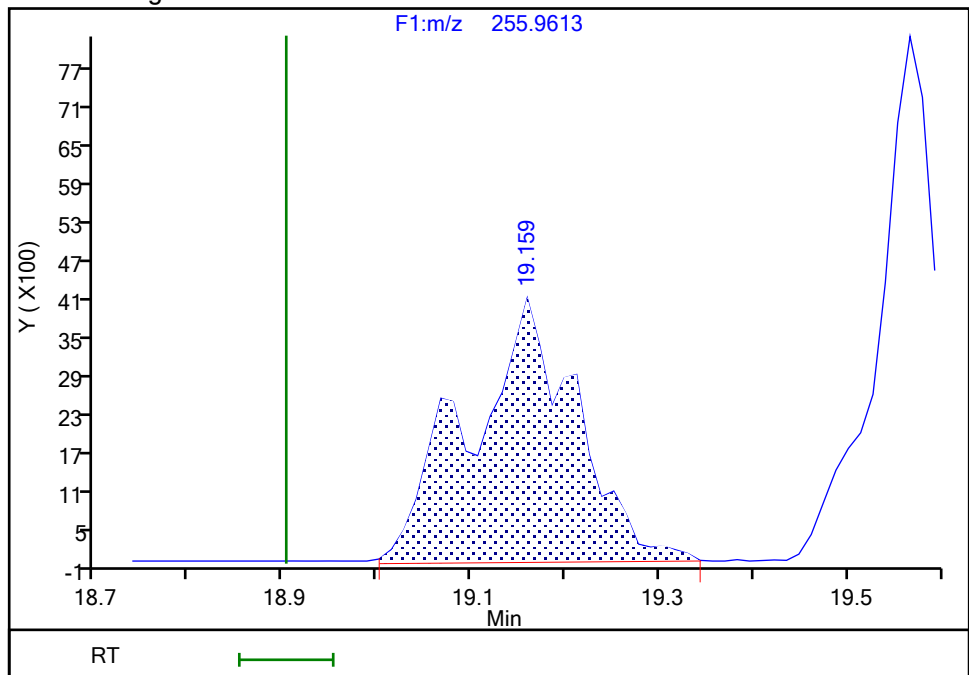
Not Detected
Expected RT: 18.90

Processing Integration Results



Manual Integration Results

RT: 19.16
Area: 32437
Amount: 2.506854
Amount Units: pg/ul



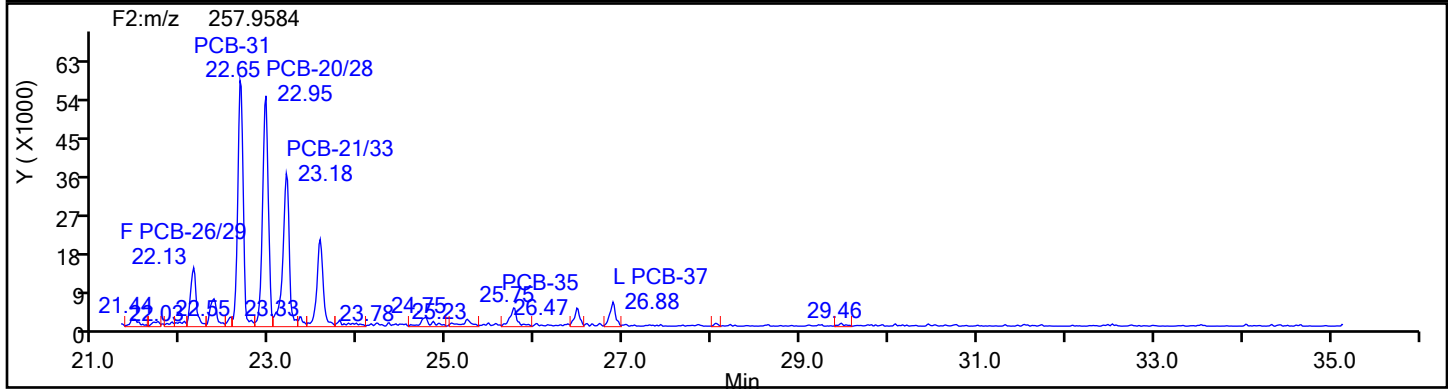
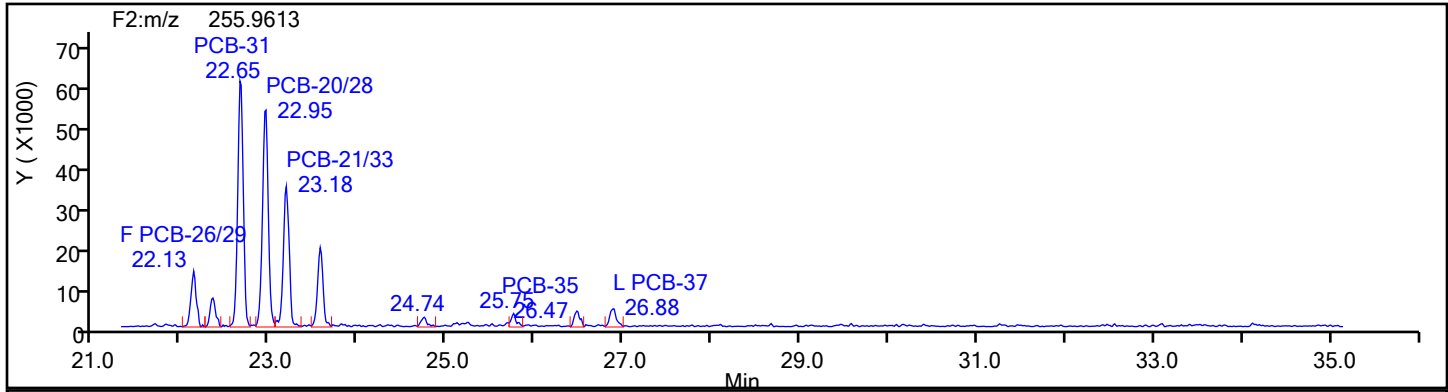
Reviewer: Q9DB, 11-Jun-2024 20:13:26 -04:00:00 (UTC)

Audit Action: Manually Integrated

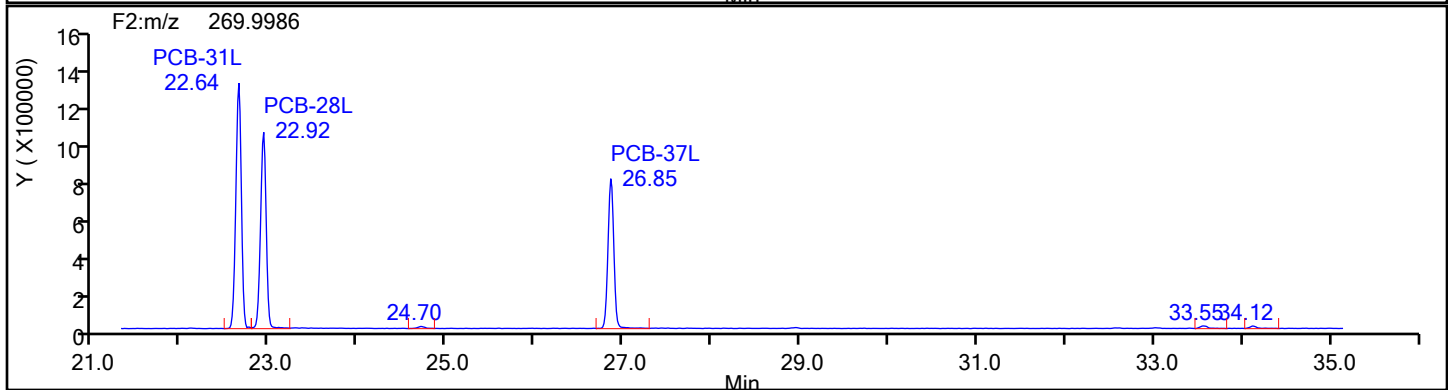
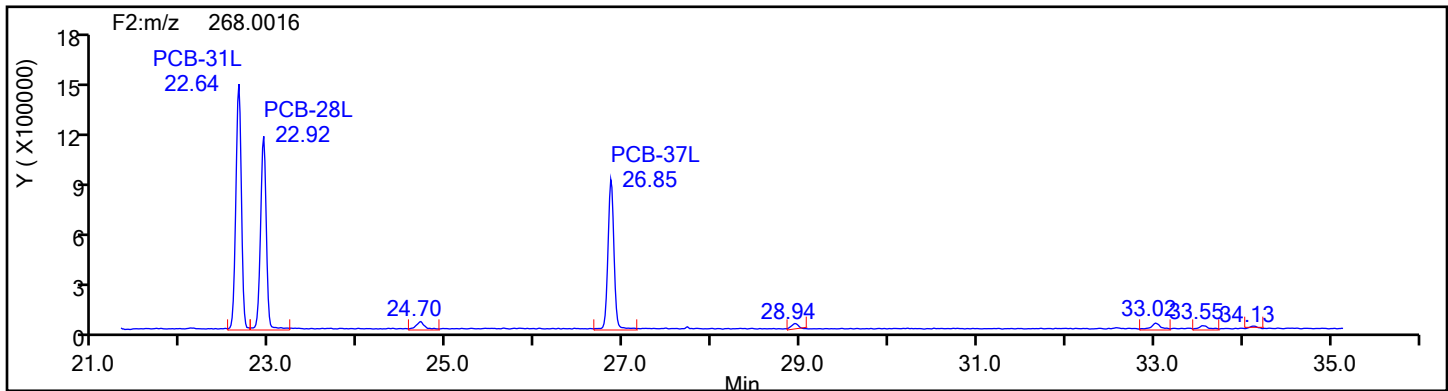
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

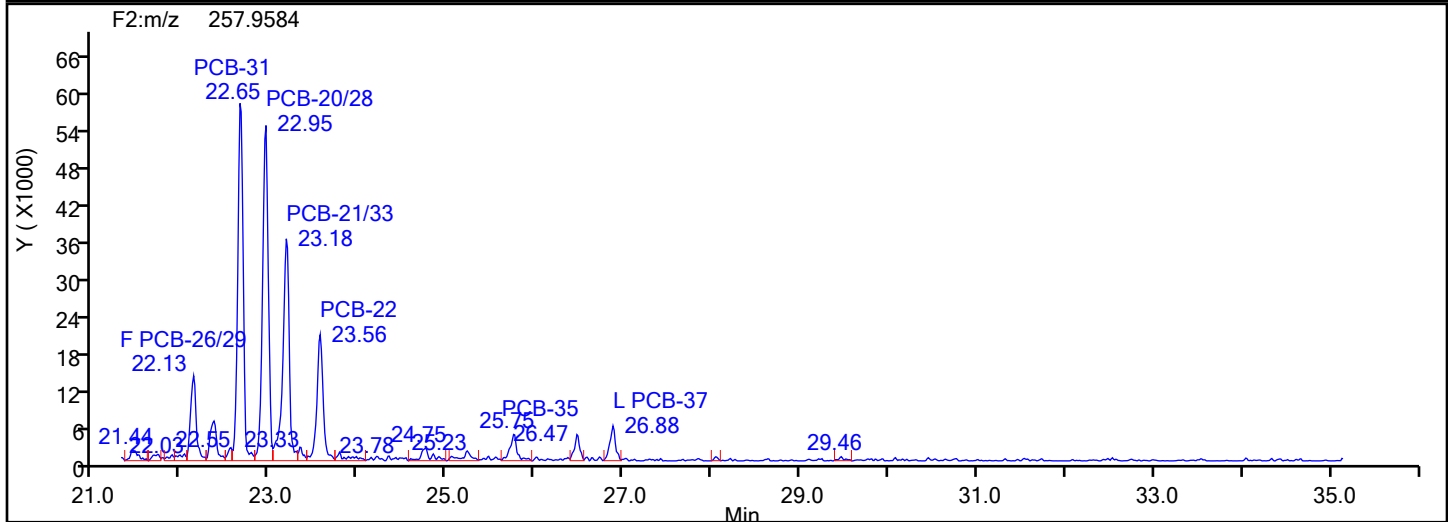
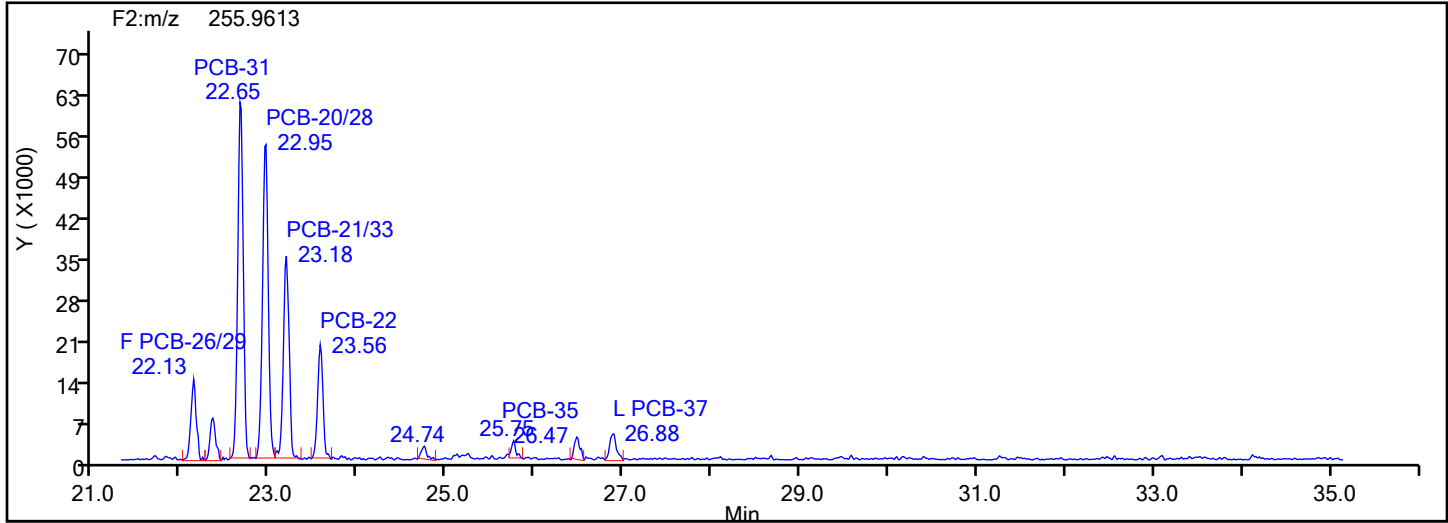


TriPCB F2 Standards

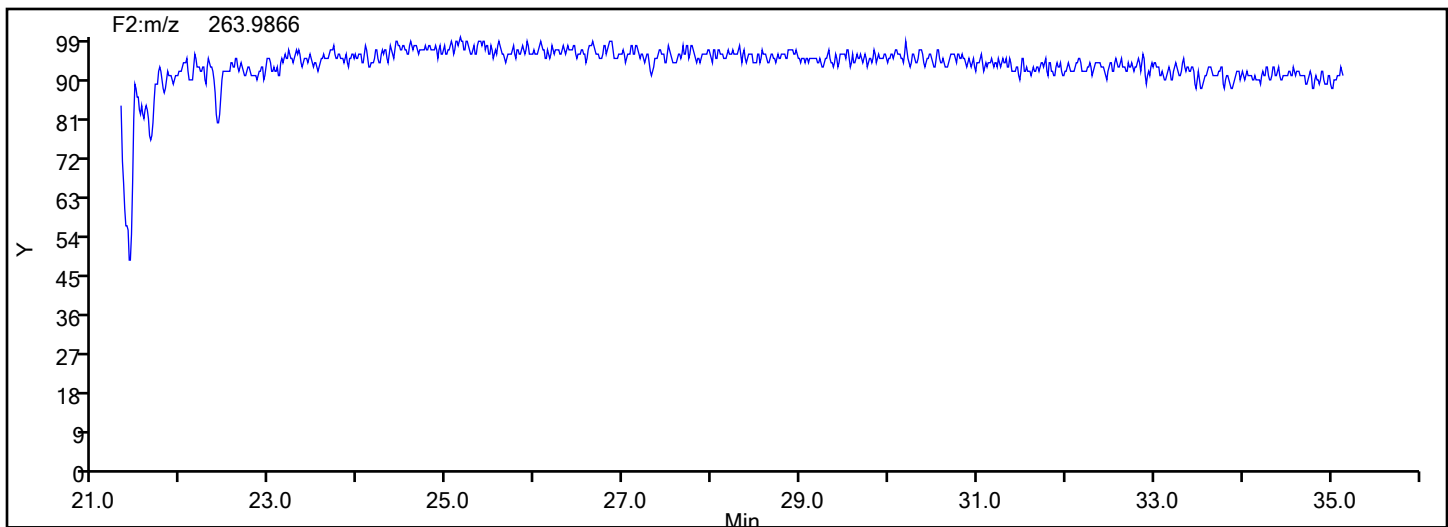


Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d

Injection Date: 11-Jun-2024 19:08:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 4 COMBINED

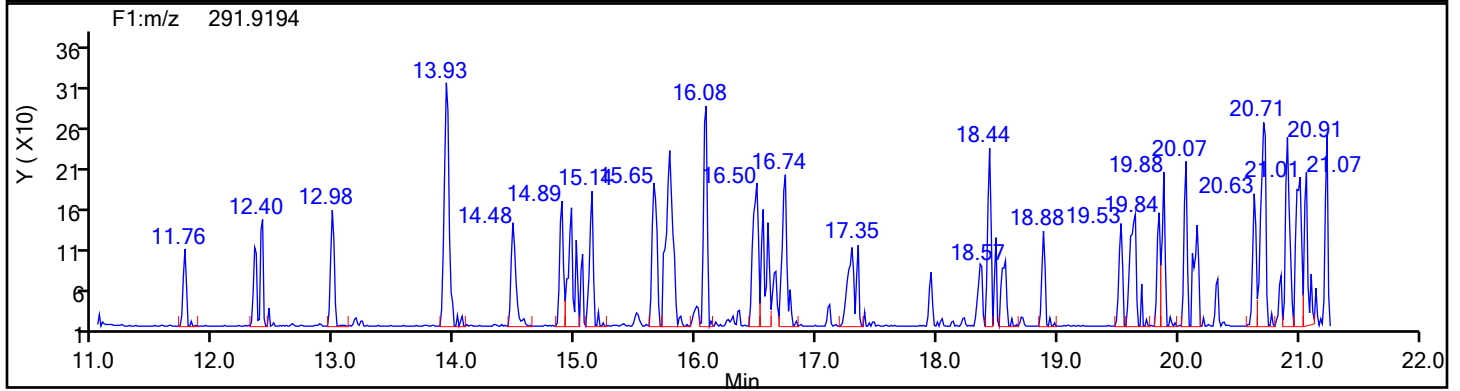
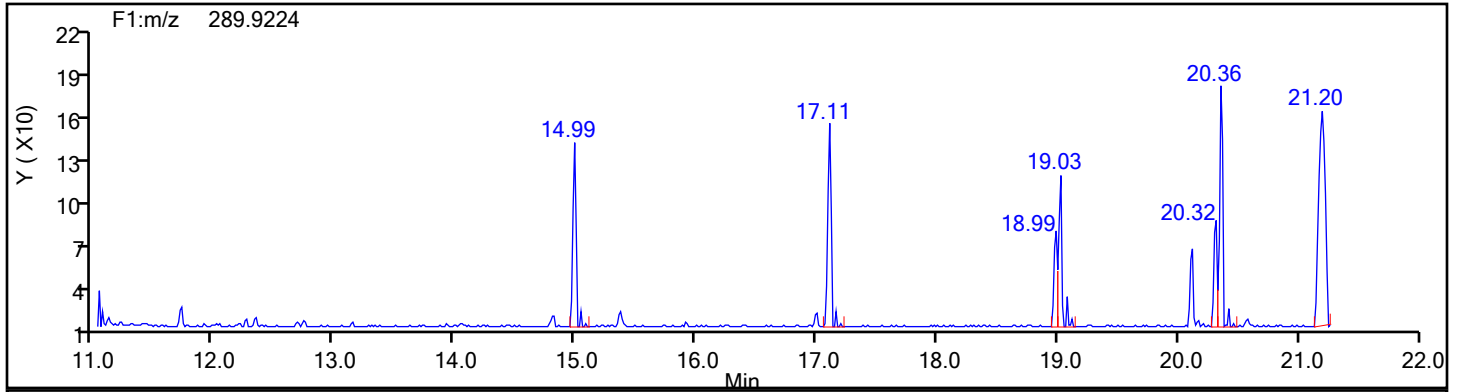
Worklist#: 87502

Sample Line#: 12

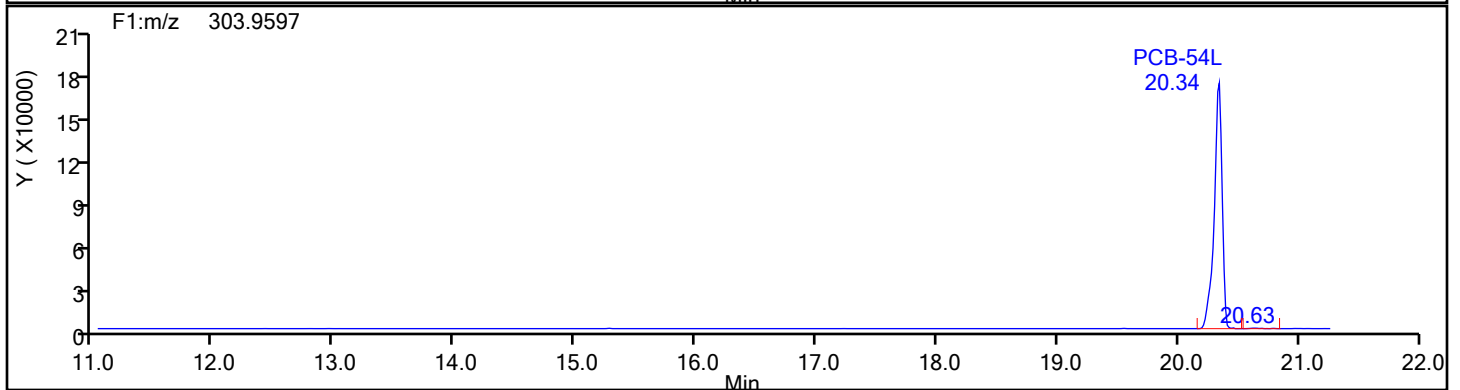
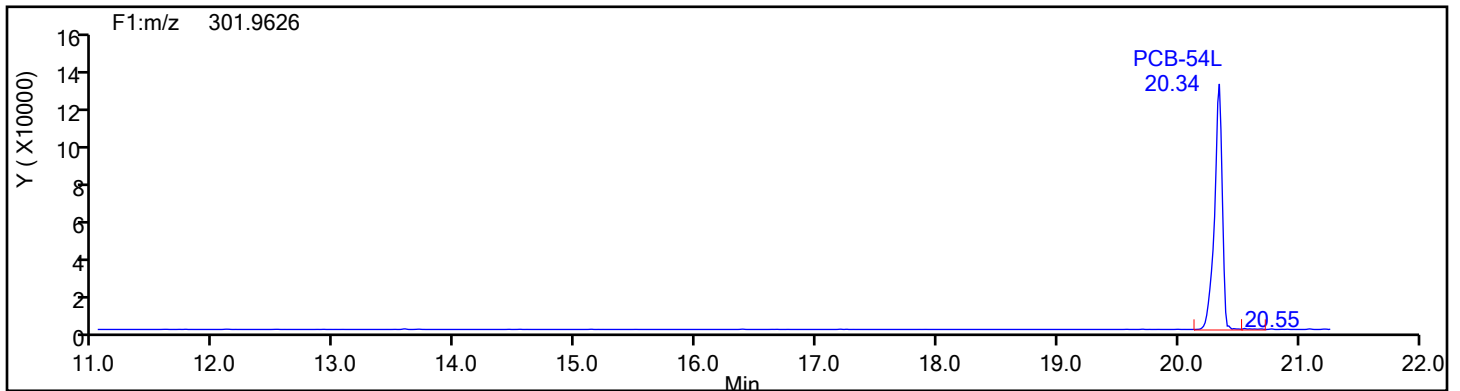
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

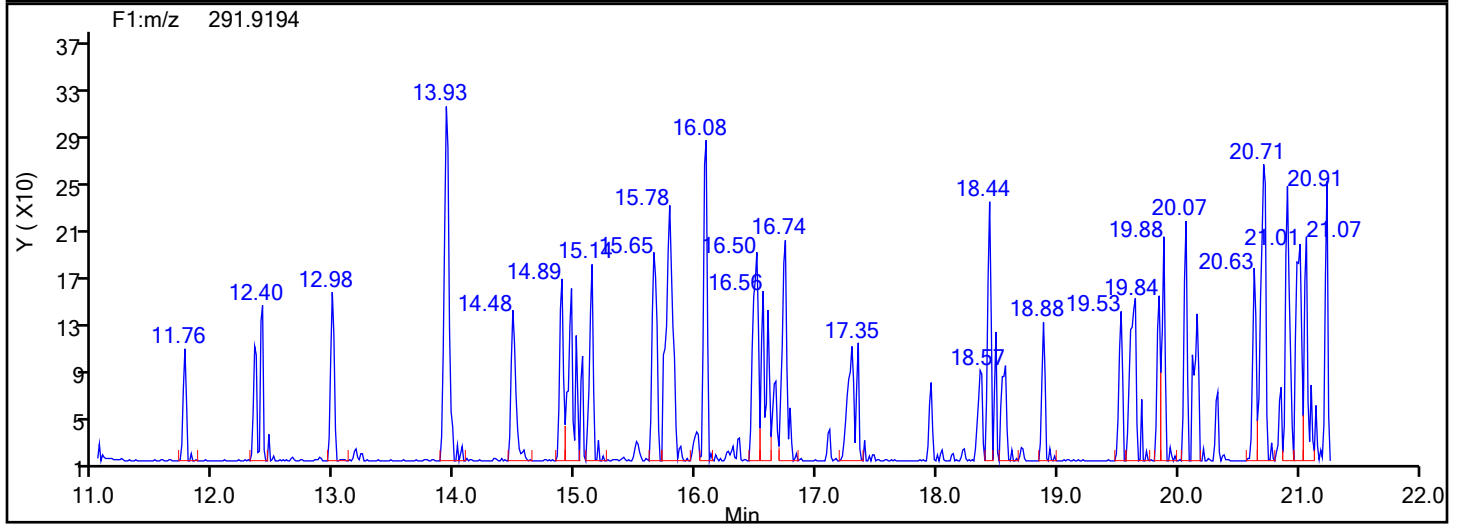
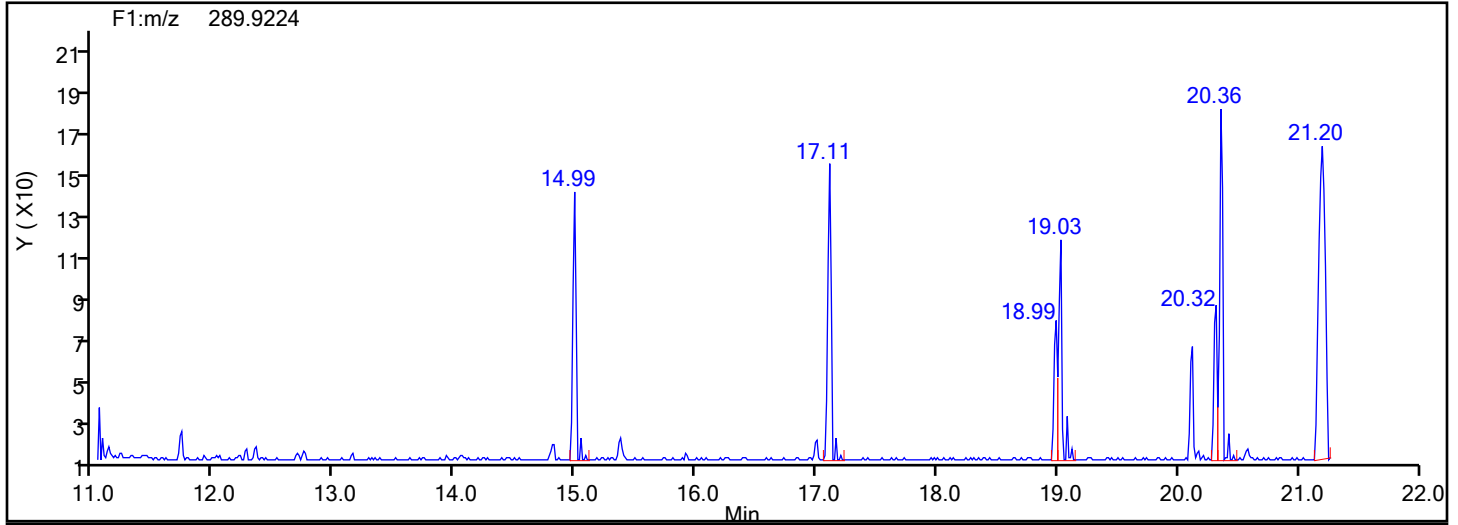


TePCB F1 Standards

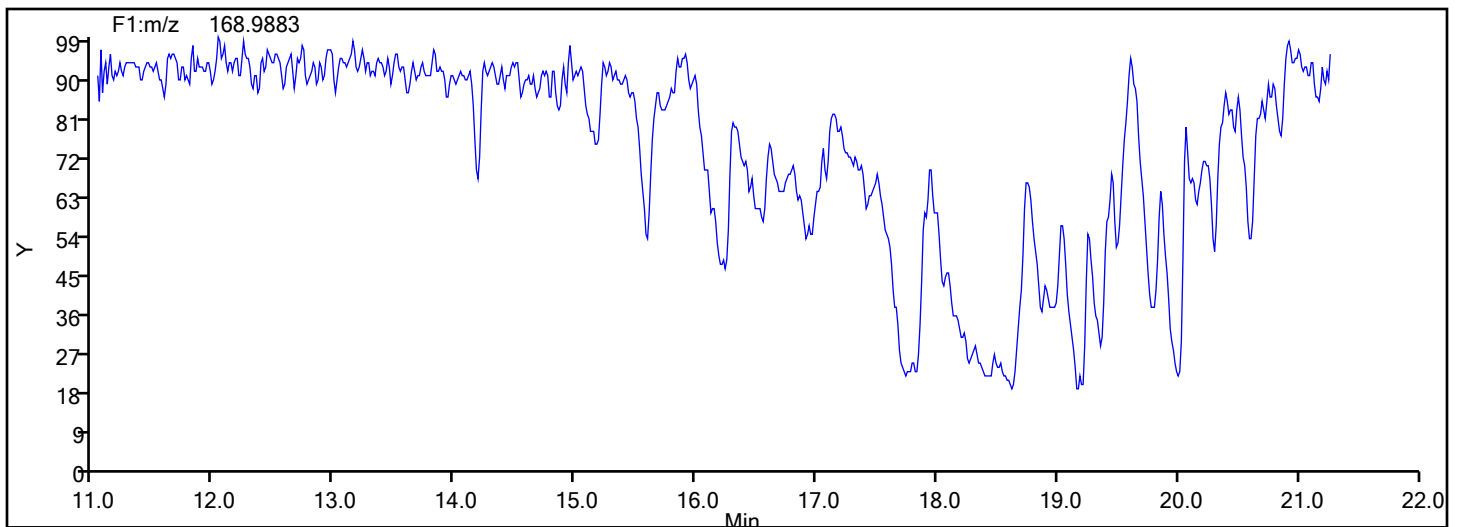


Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

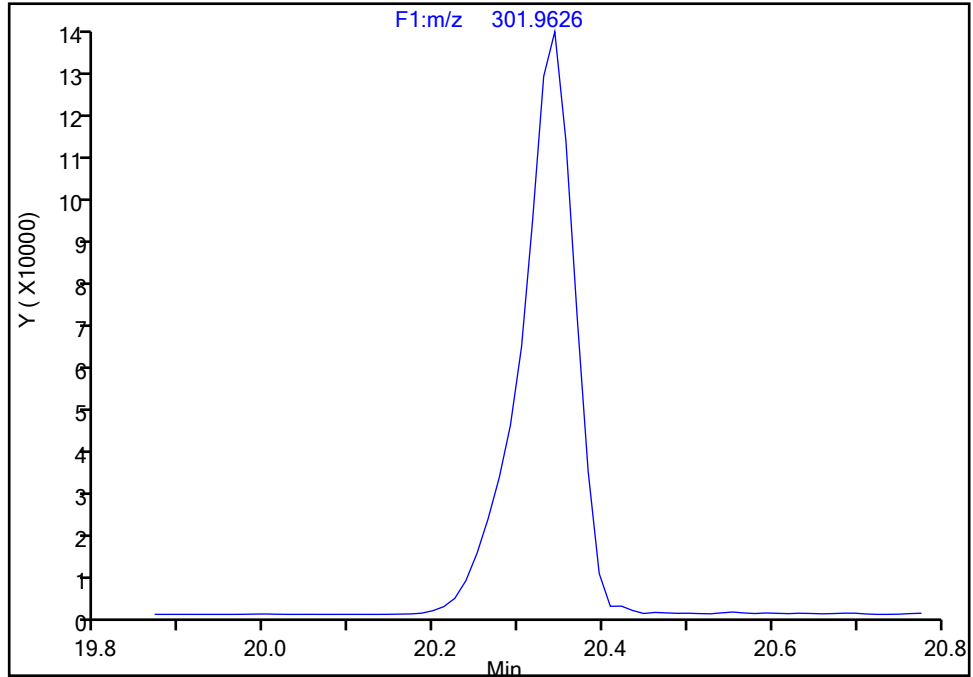
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 1

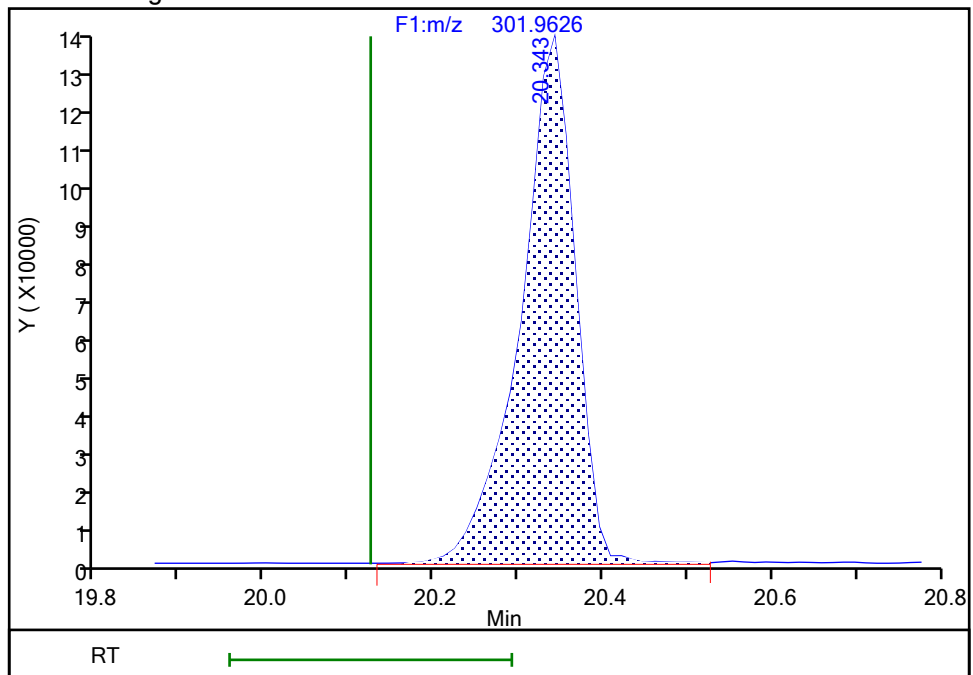
Not Detected
Expected RT: 20.12

Processing Integration Results



RT: 20.34
Area: 596575
Amount: 69.190957
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:20:49 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d

Injection Date: 11-Jun-2024 19:08:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 4 COMBINED

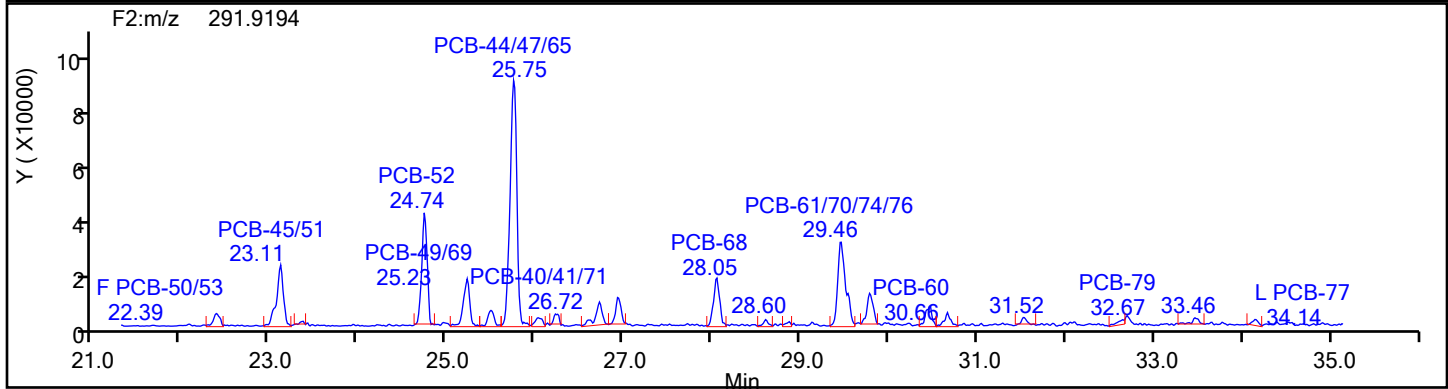
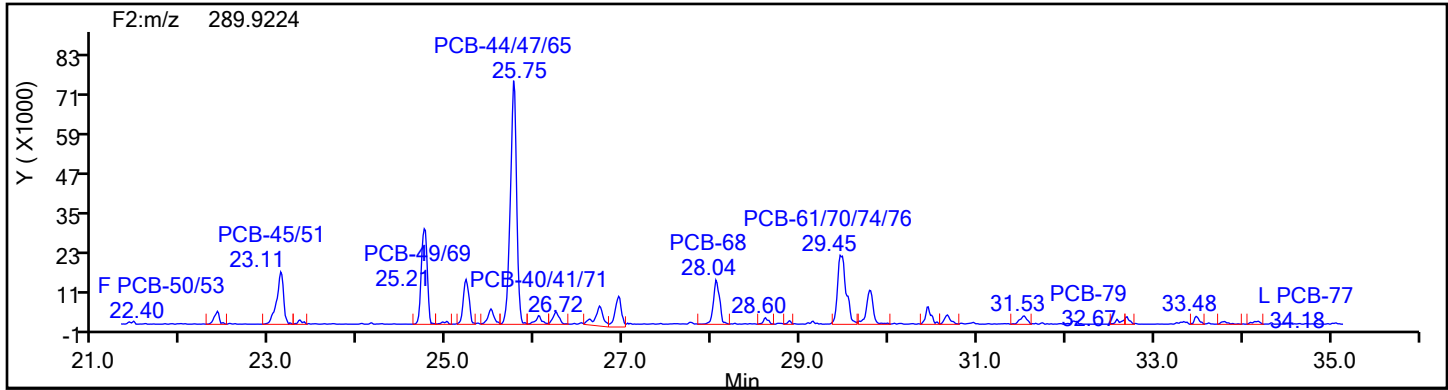
Worklist#: 87502

Sample Line#: 12

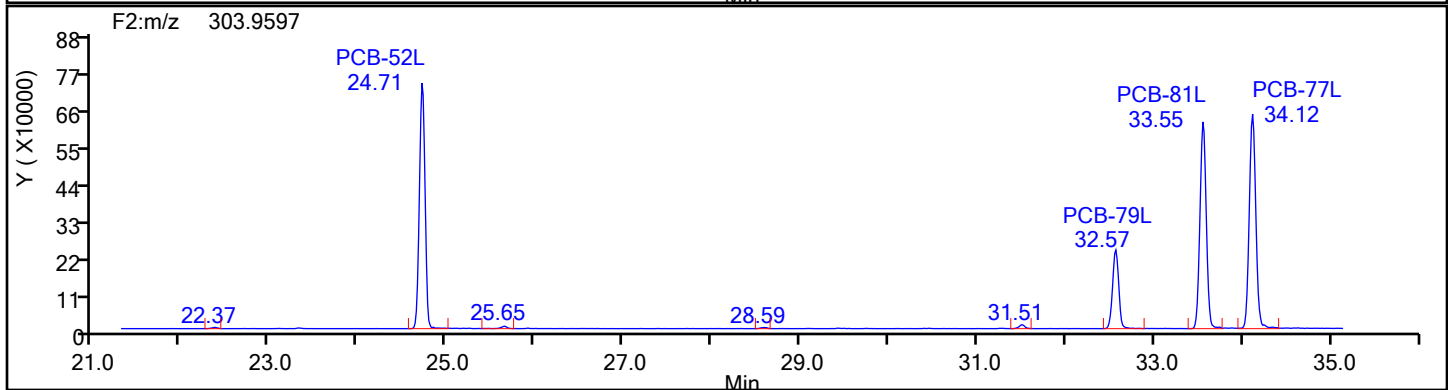
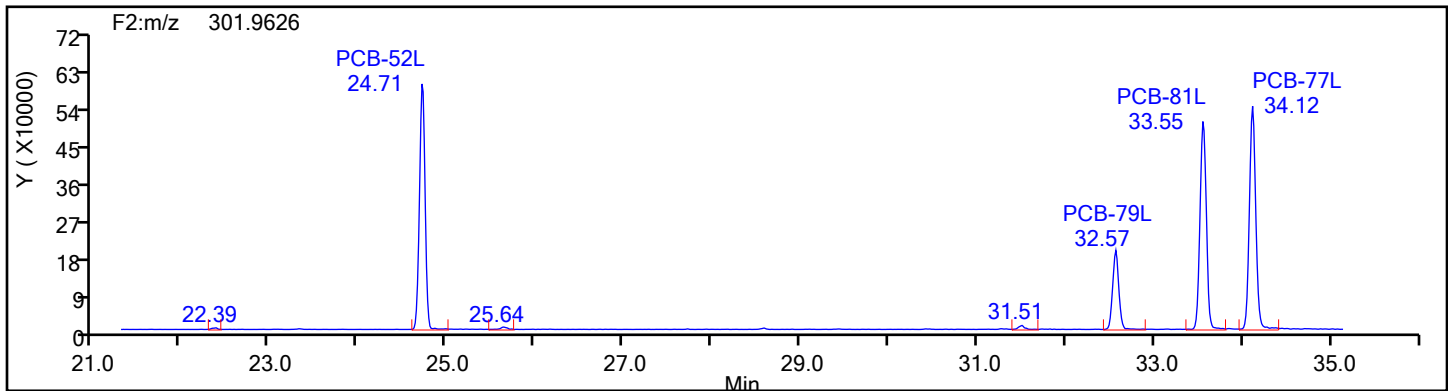
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2

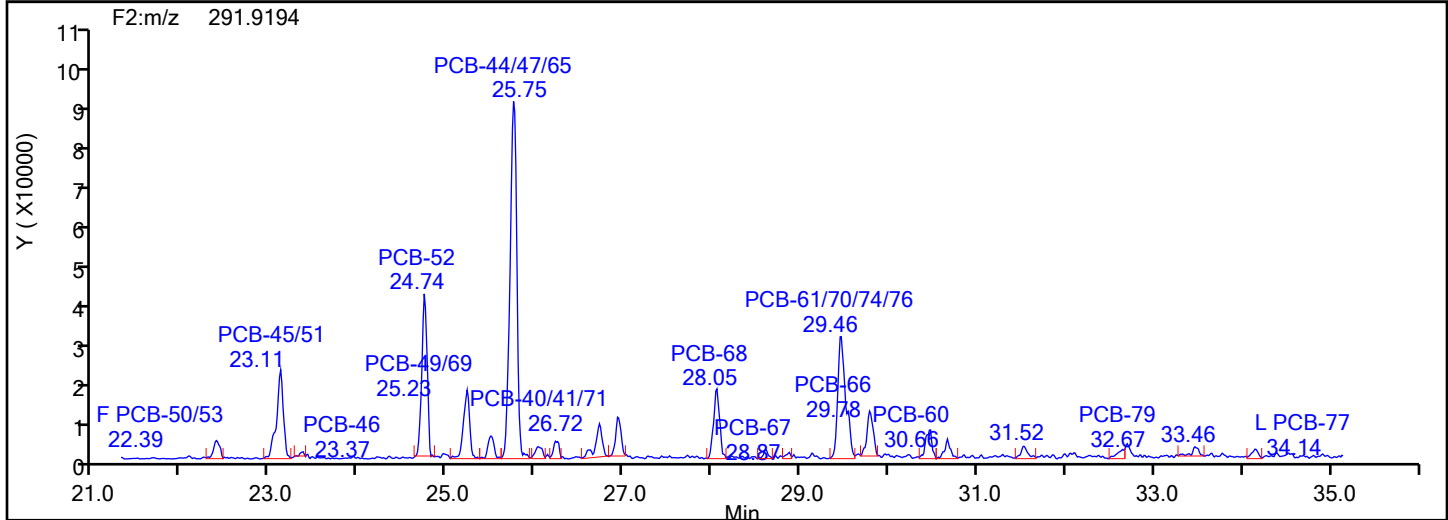
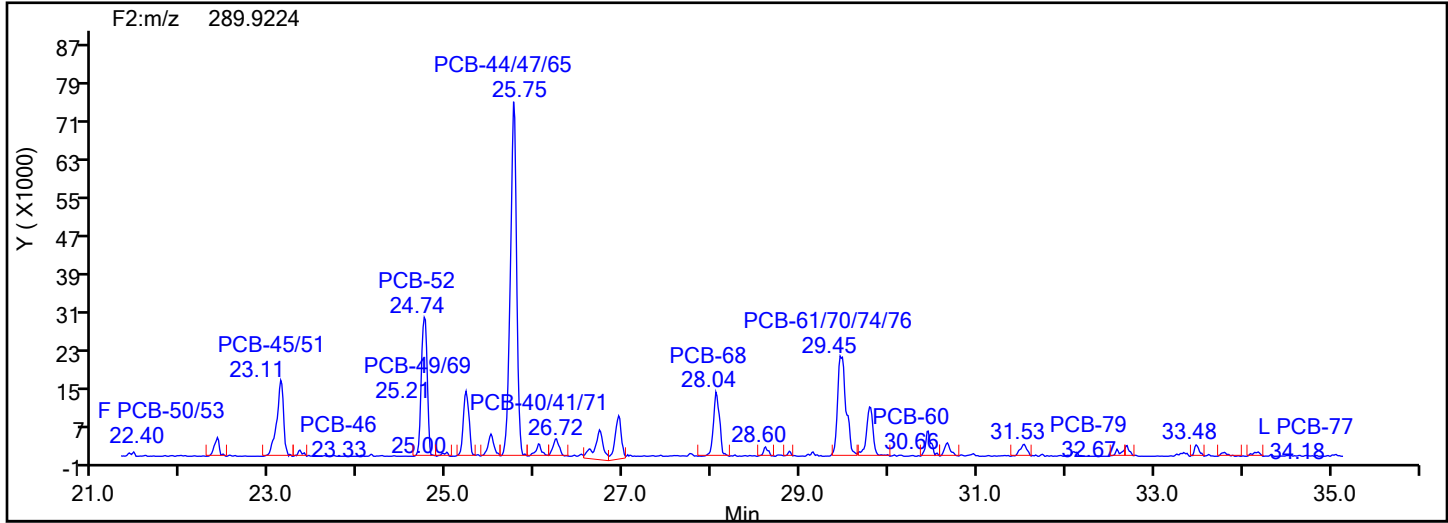


TePCB F2 Standards

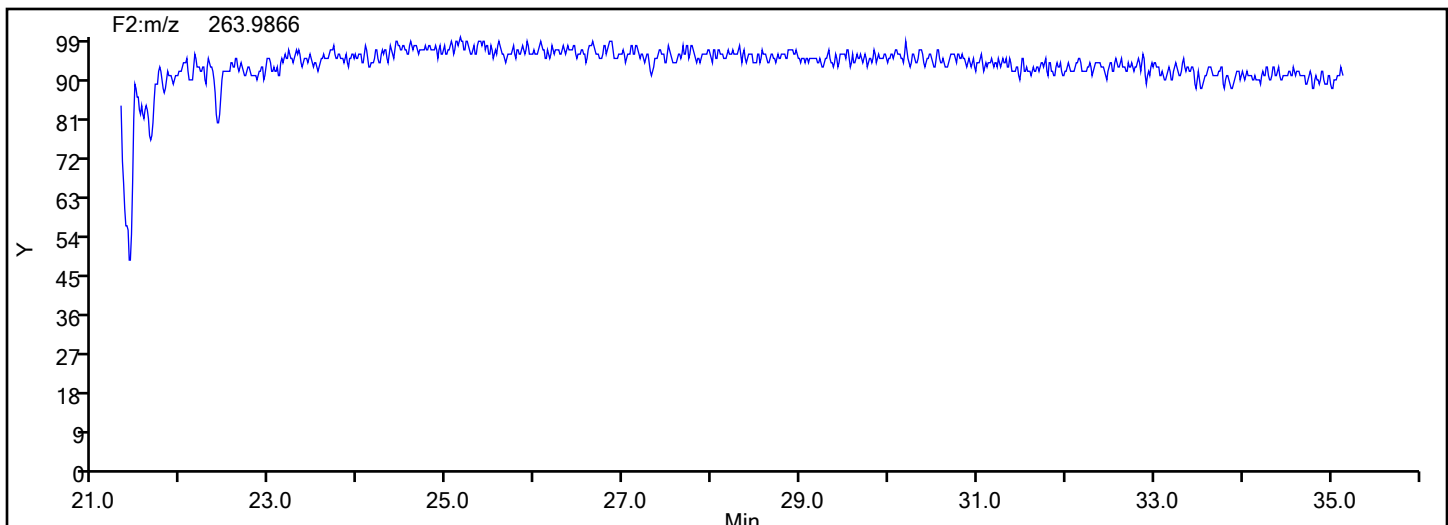


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d
Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

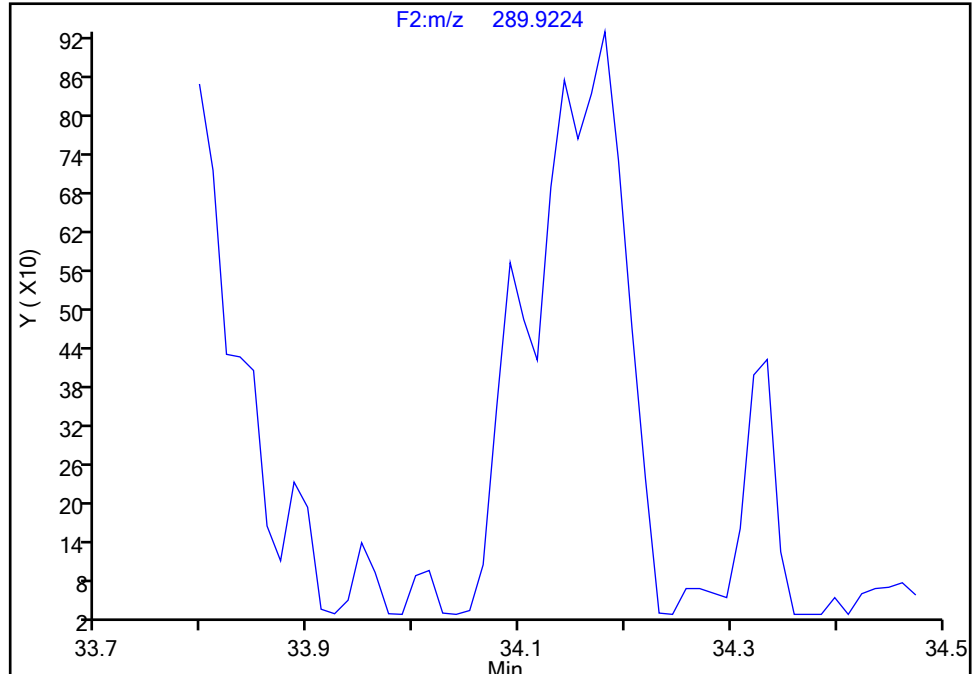
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 1

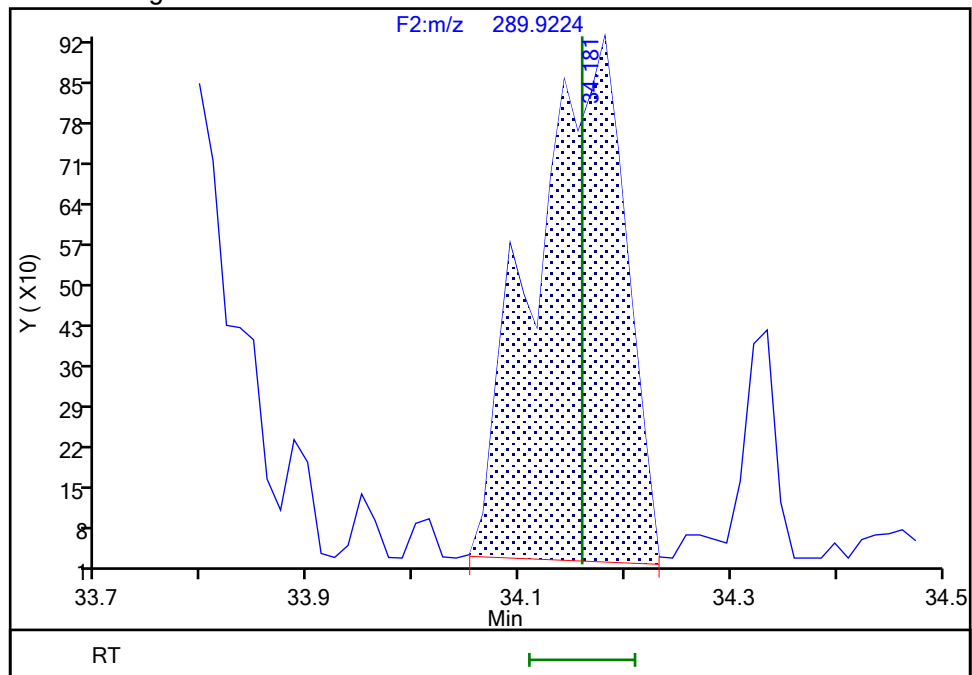
Not Detected
Expected RT: 34.16

Processing Integration Results



RT: 34.18
Area: 5475
Amount: 0.238700
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:24:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

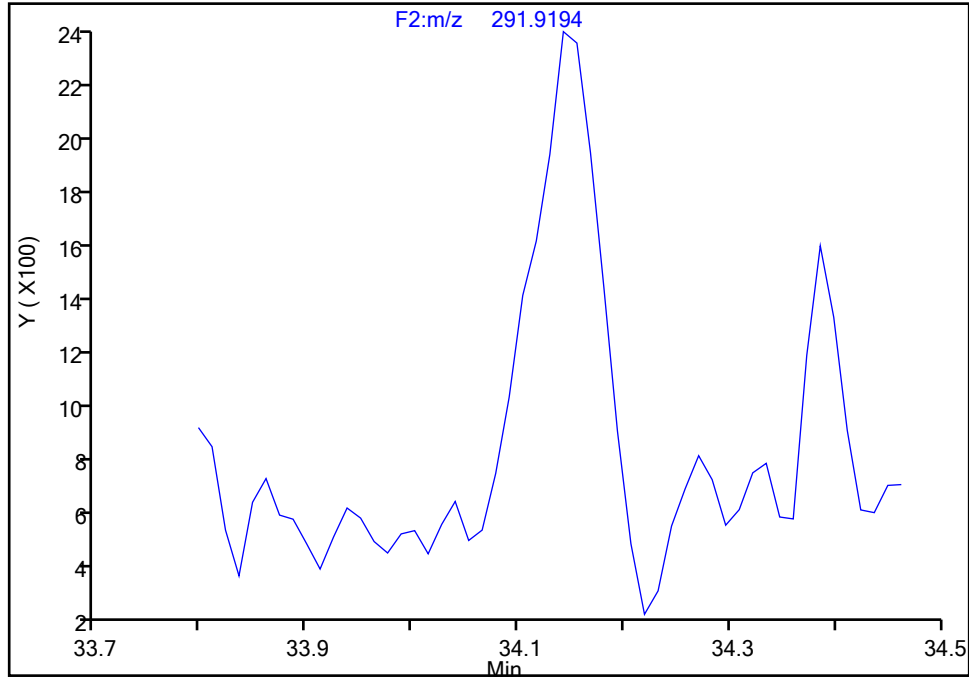
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 2

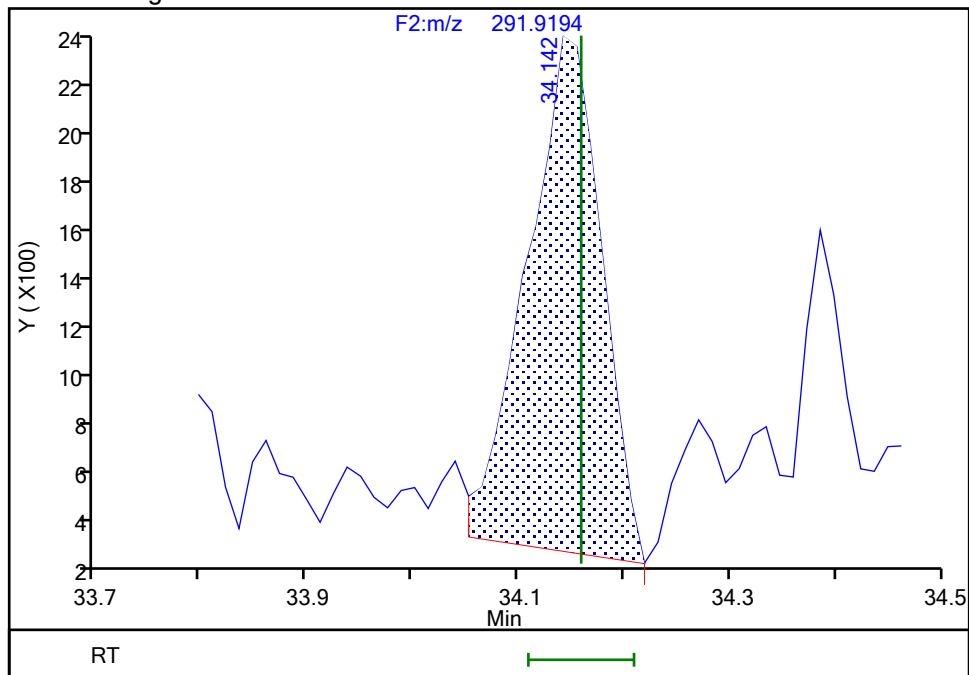
Not Detected
Expected RT: 34.16

Processing Integration Results



RT: 34.14
Area: 10265
Amount: 0.238700
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:24:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d

Injection Date: 11-Jun-2024 19:08:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 4 COMBINED

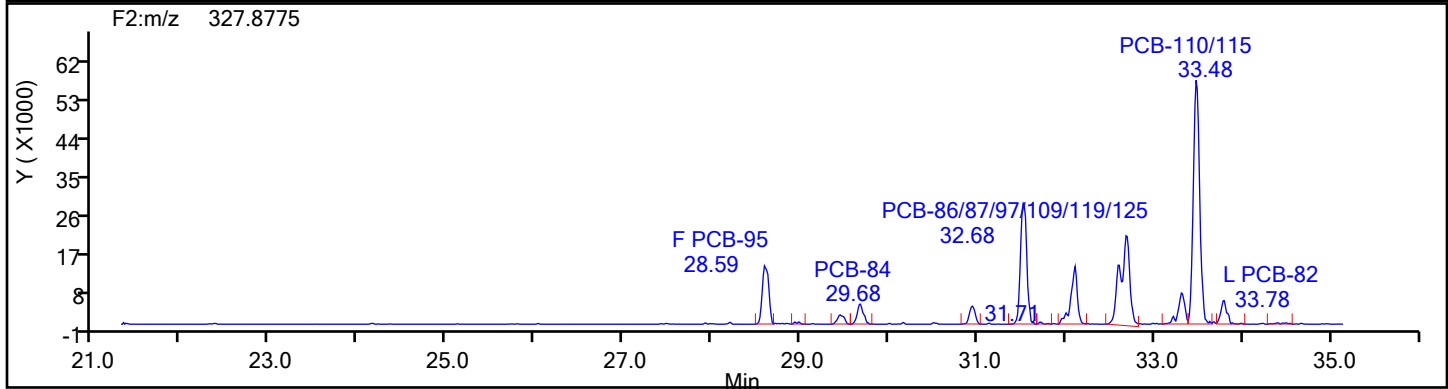
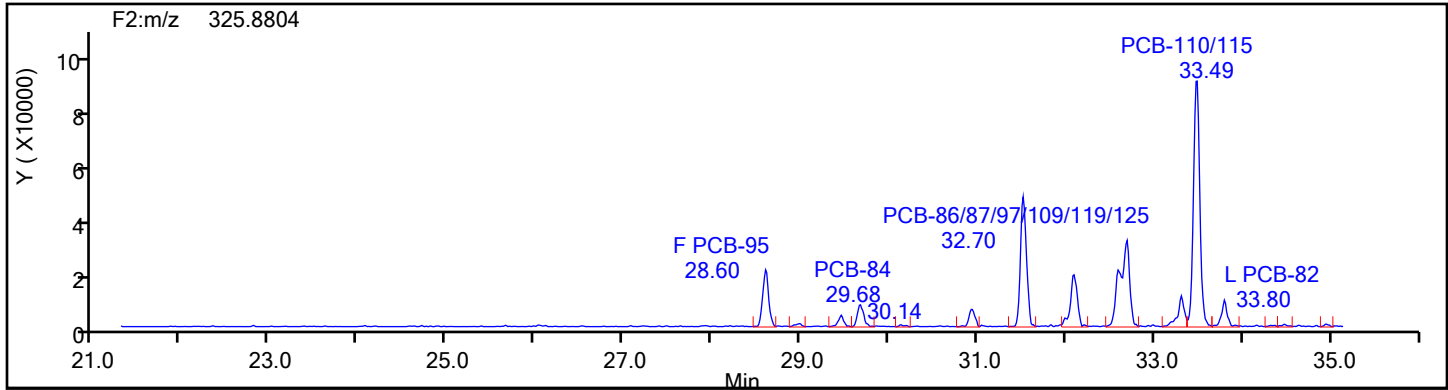
Worklist#: 87502

Sample Line#: 12

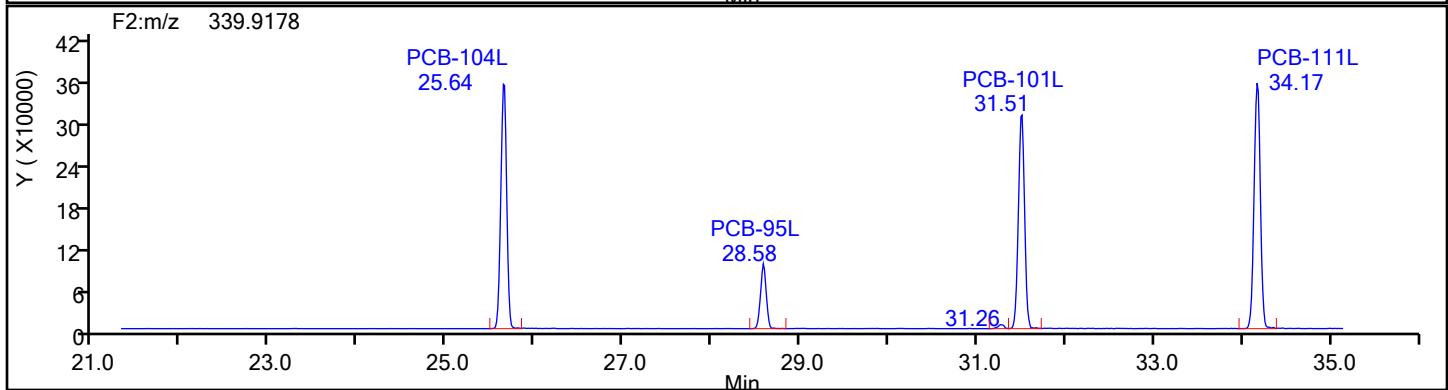
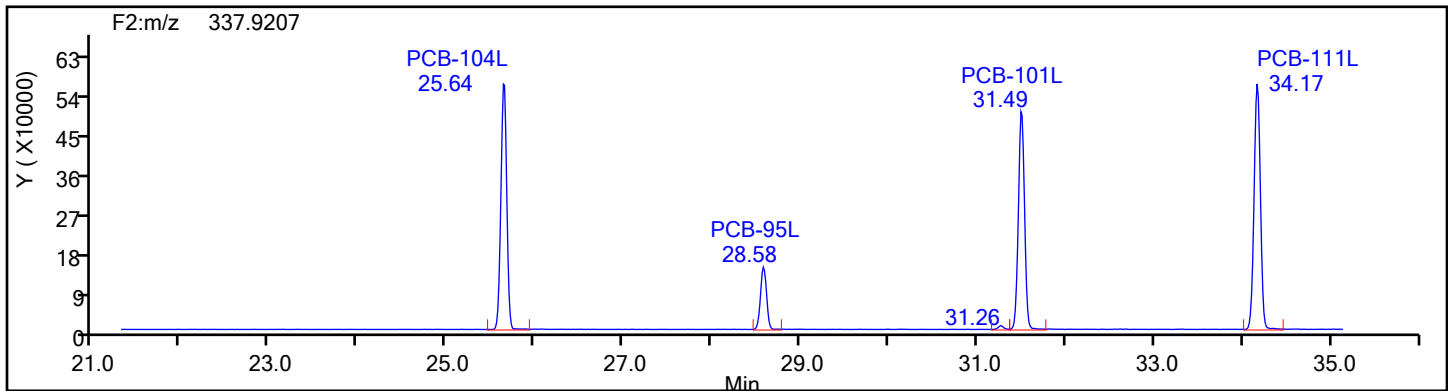
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2

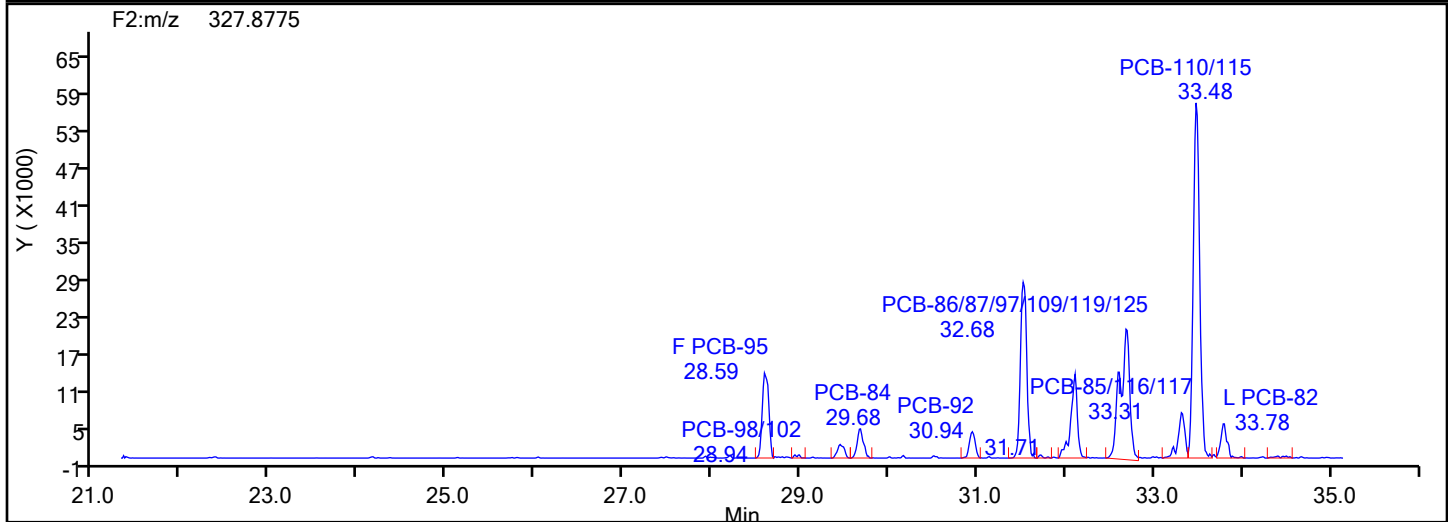
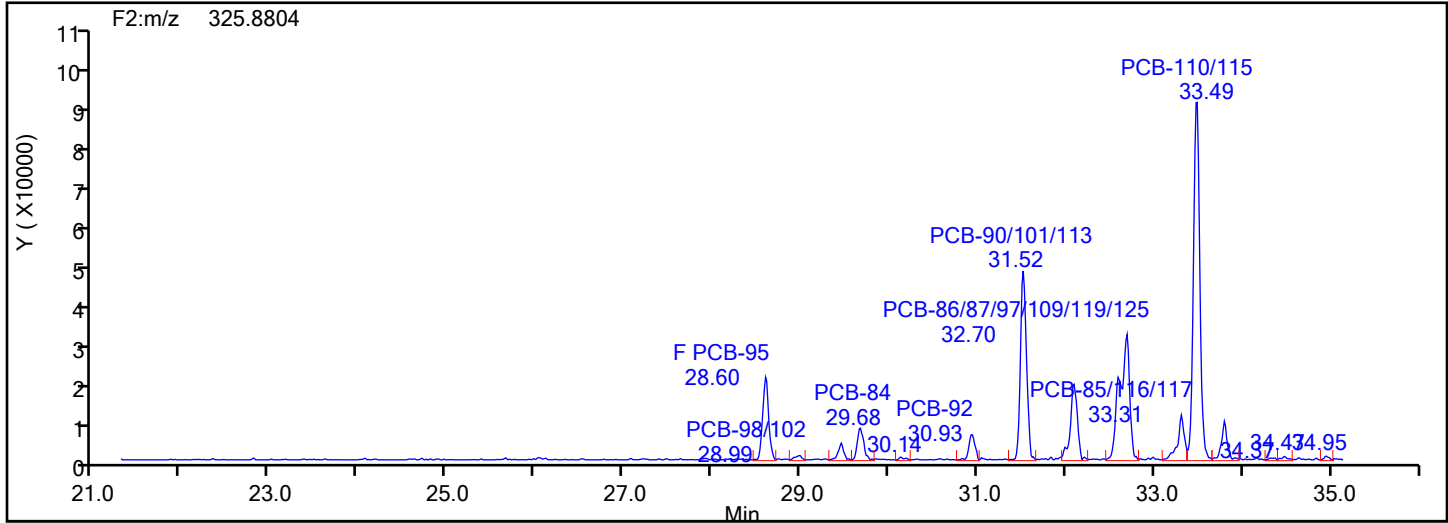


PePCB F2 Standards

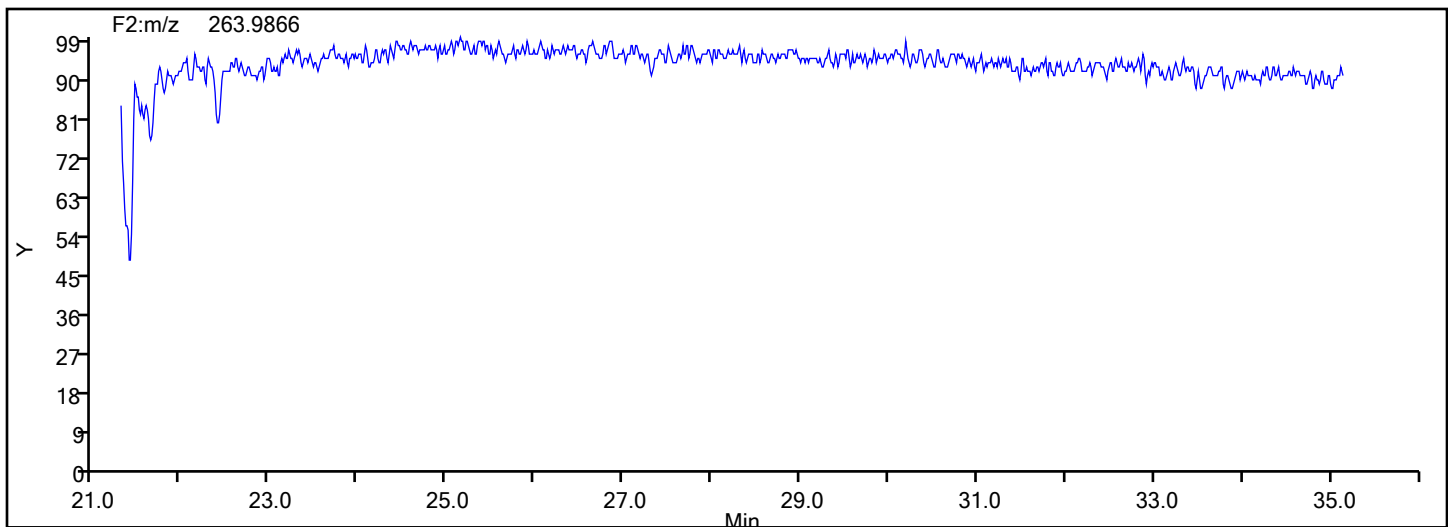


Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

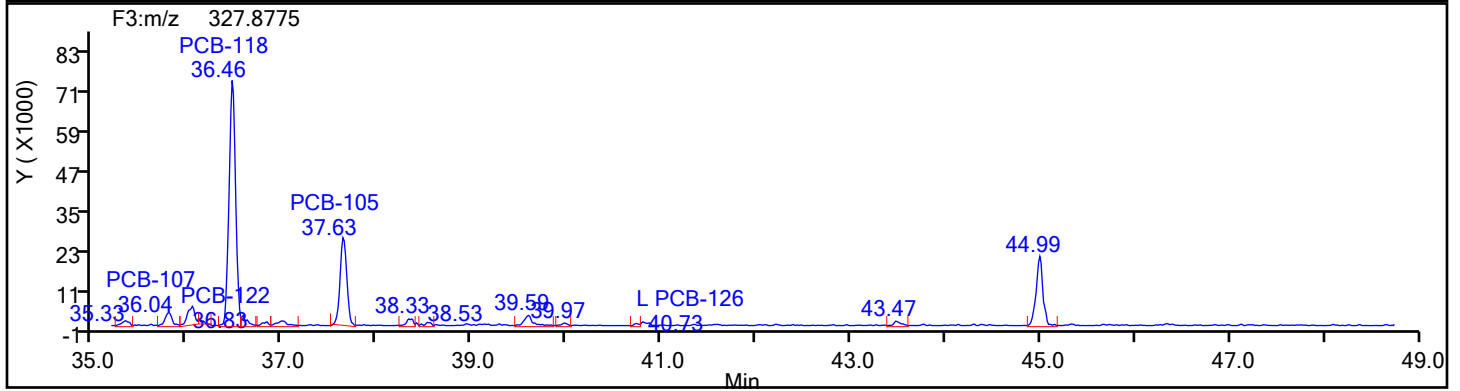
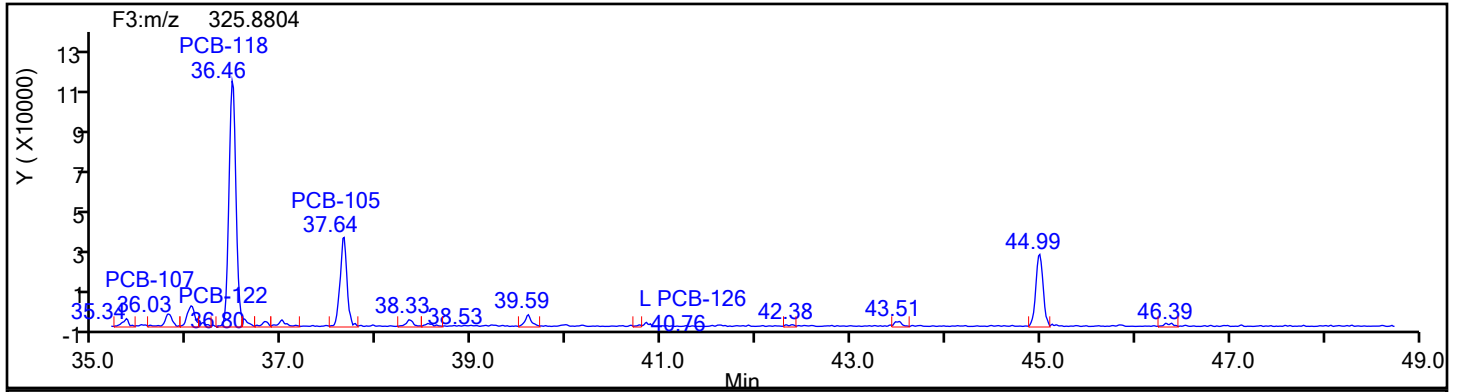


PePCB F2 Lock Mass

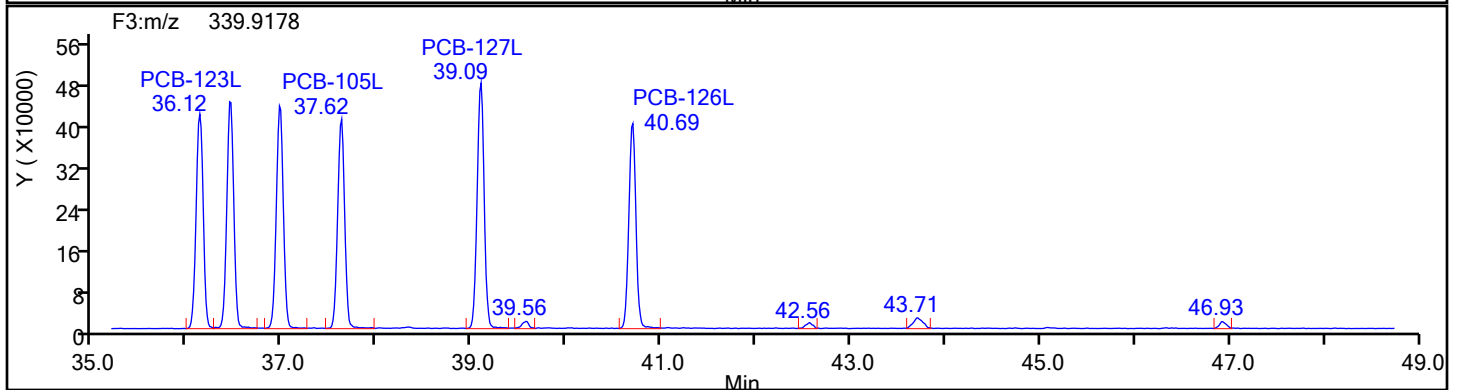
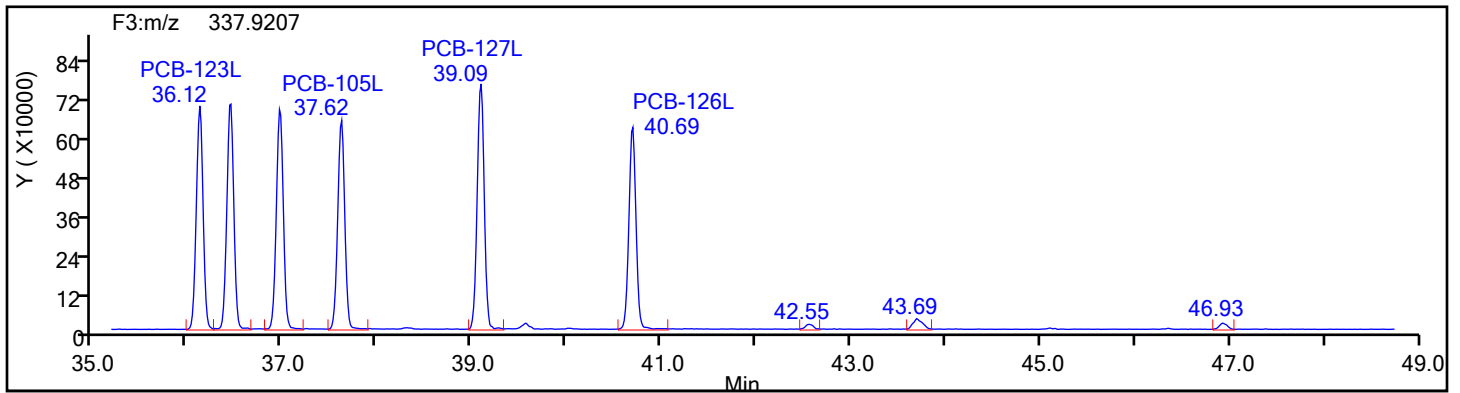


Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d

Injection Date: 11-Jun-2024 19:08:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 4 COMBINED

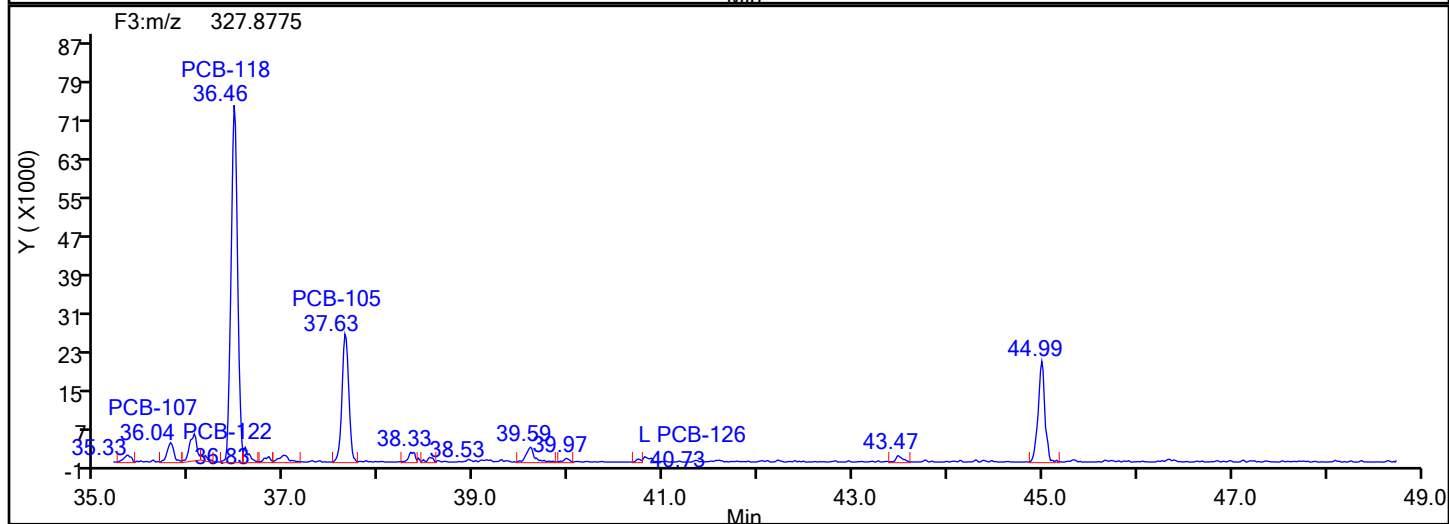
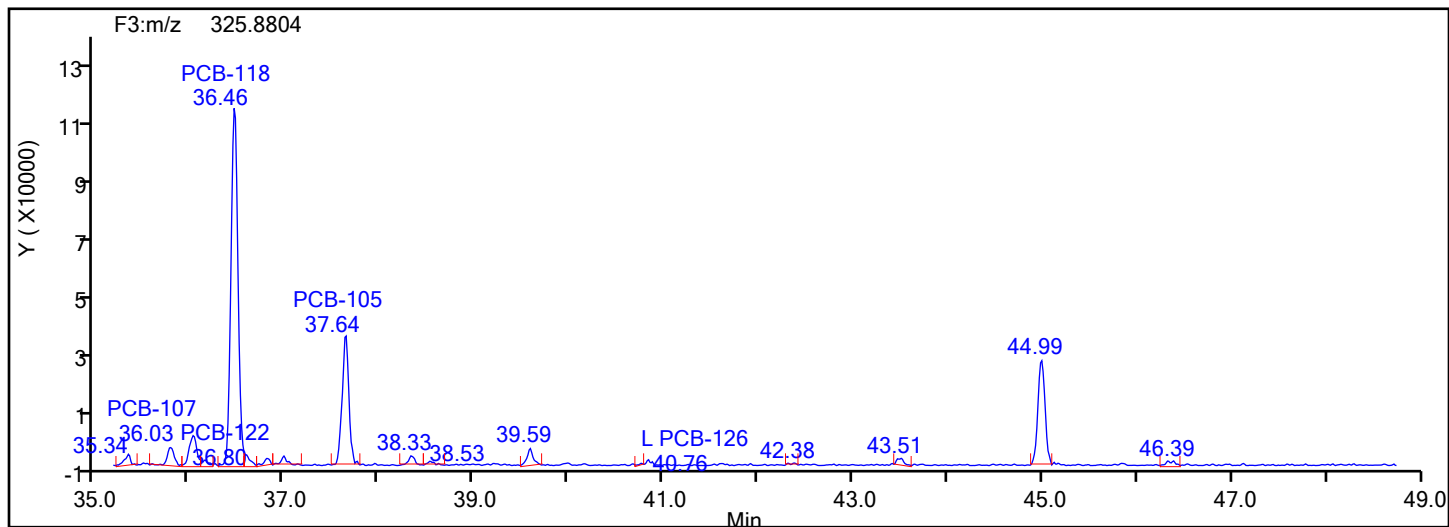
Worklist#: 87502

Sample Line#: 12

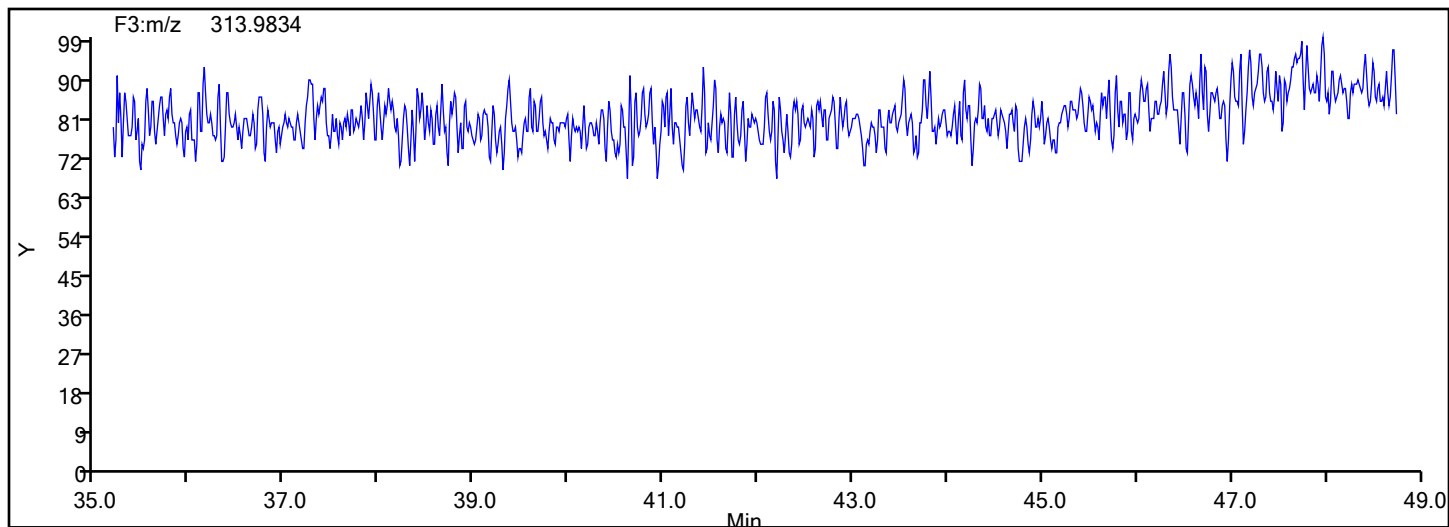
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

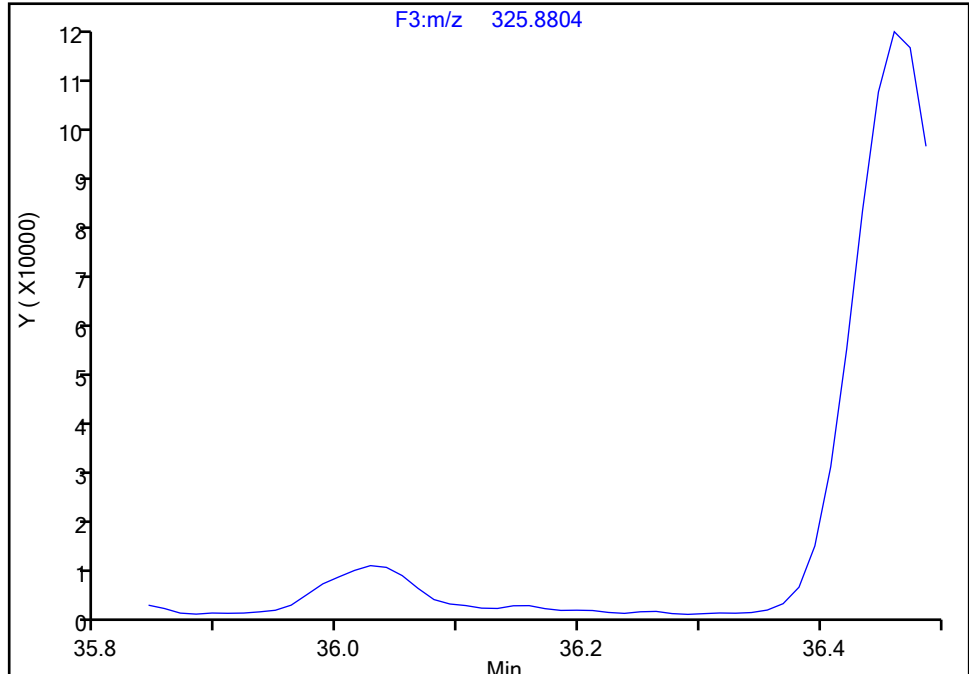
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-123, CAS: 65510-44-3

Signal: 1

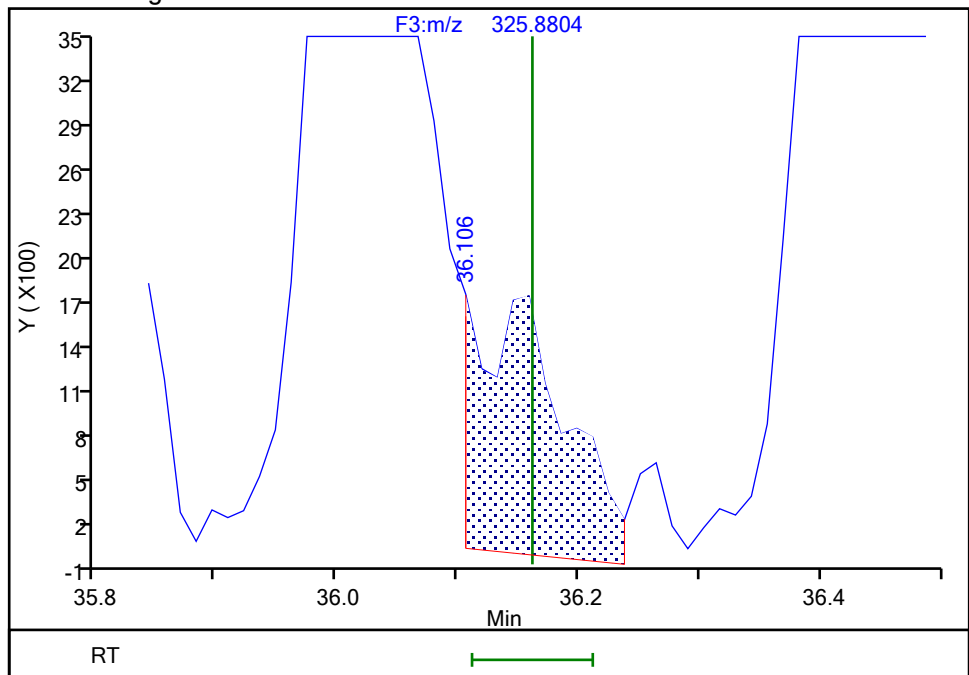
Not Detected
Expected RT: 36.16

Processing Integration Results



RT: 36.11
Area: 8566
Amount: 0.235100
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:26:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

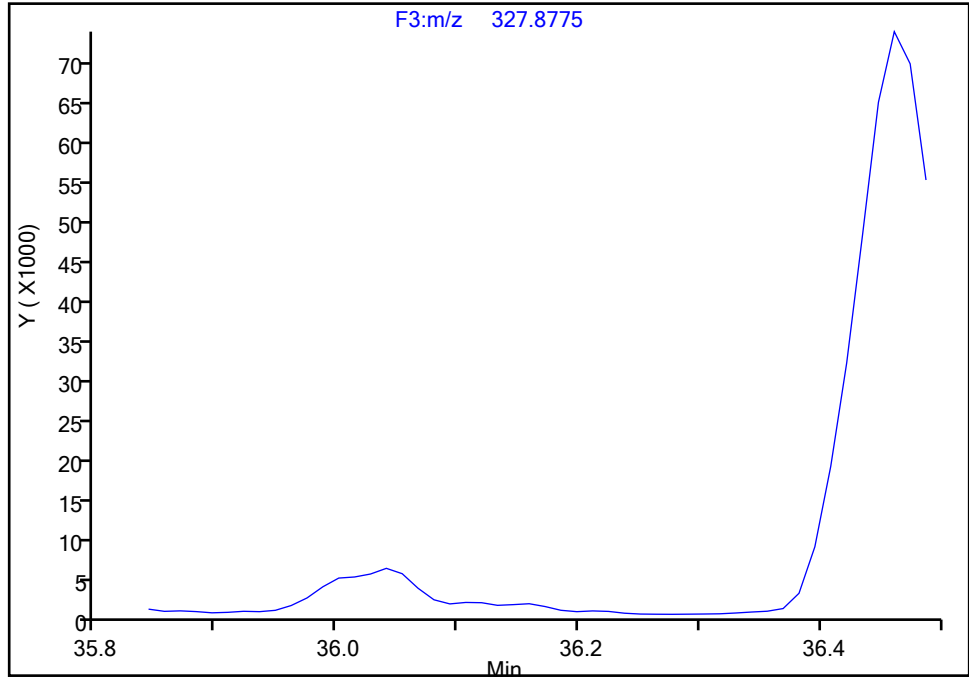
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Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-123, CAS: 65510-44-3

Signal: 2

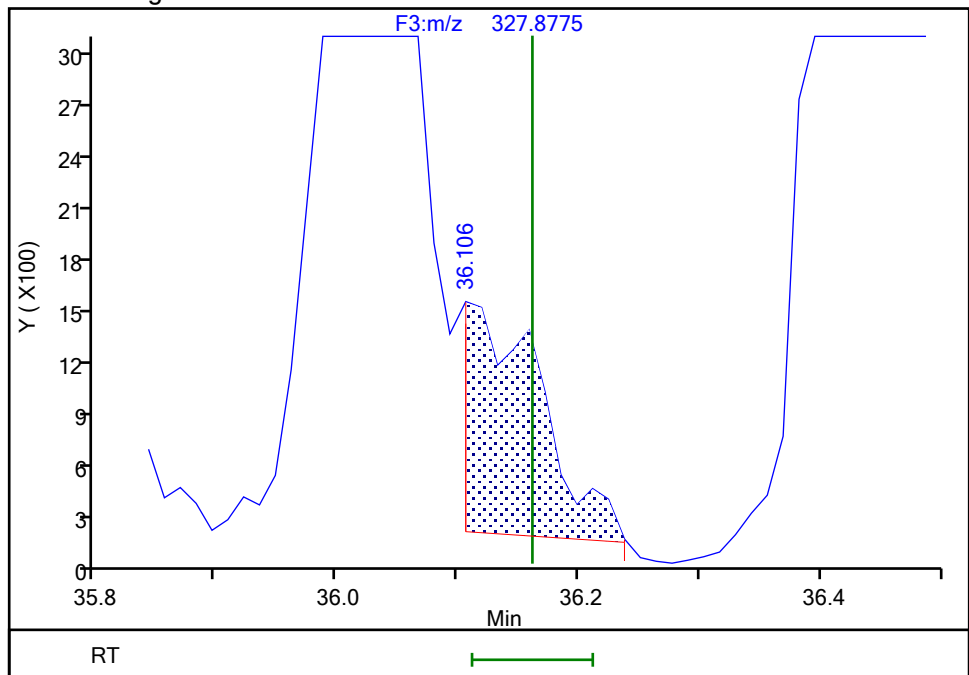
Not Detected
Expected RT: 36.16

Processing Integration Results



RT: 36.11
Area: 5629
Amount: 0.235100
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:26:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024 2:43:26 PM
BASFHWC-Geneva-202657

Eurofins Knoxville

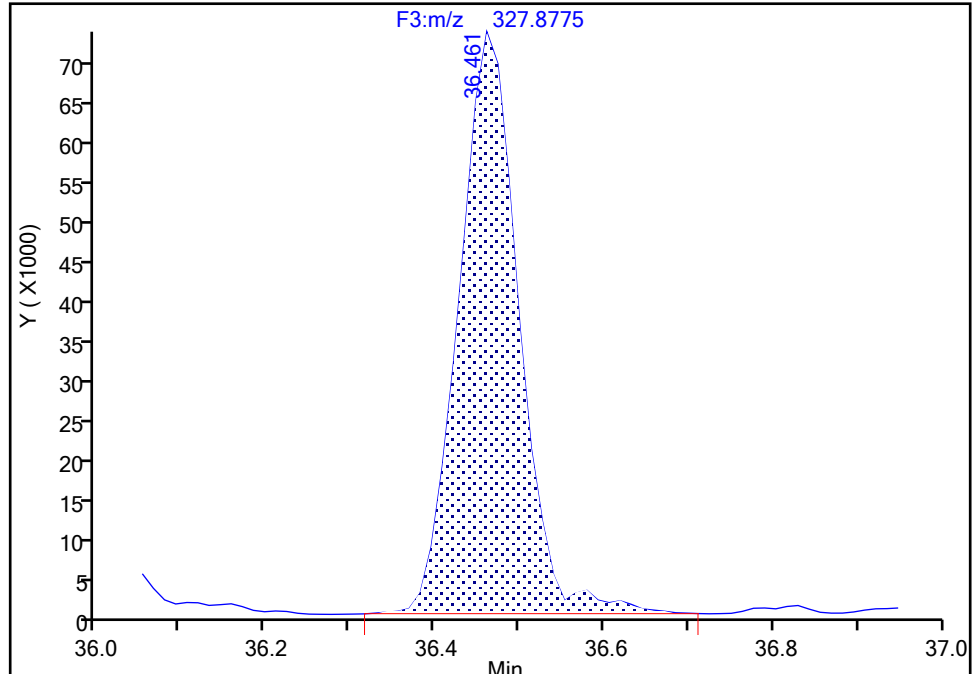
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Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-118, CAS: 31508-00-6

Signal: 2

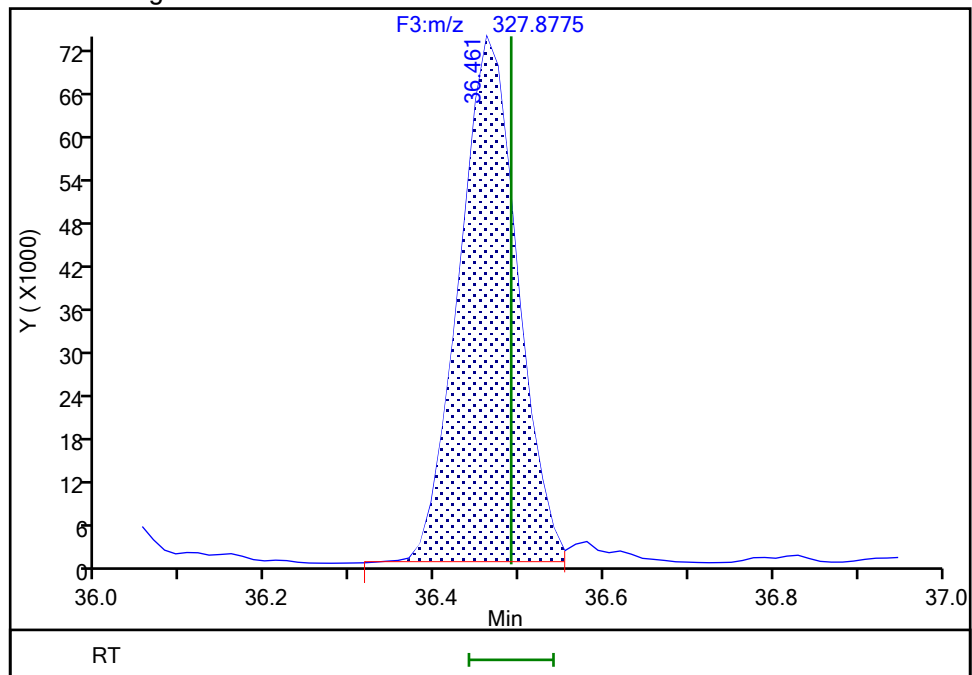
RT: 36.46
Area: 366259
Amount: 13.530028
Amount Units: pg/ul

Processing Integration Results



RT: 36.46
Area: 354833
Amount: 13.172212
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 12-Jun-2024 10:30:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

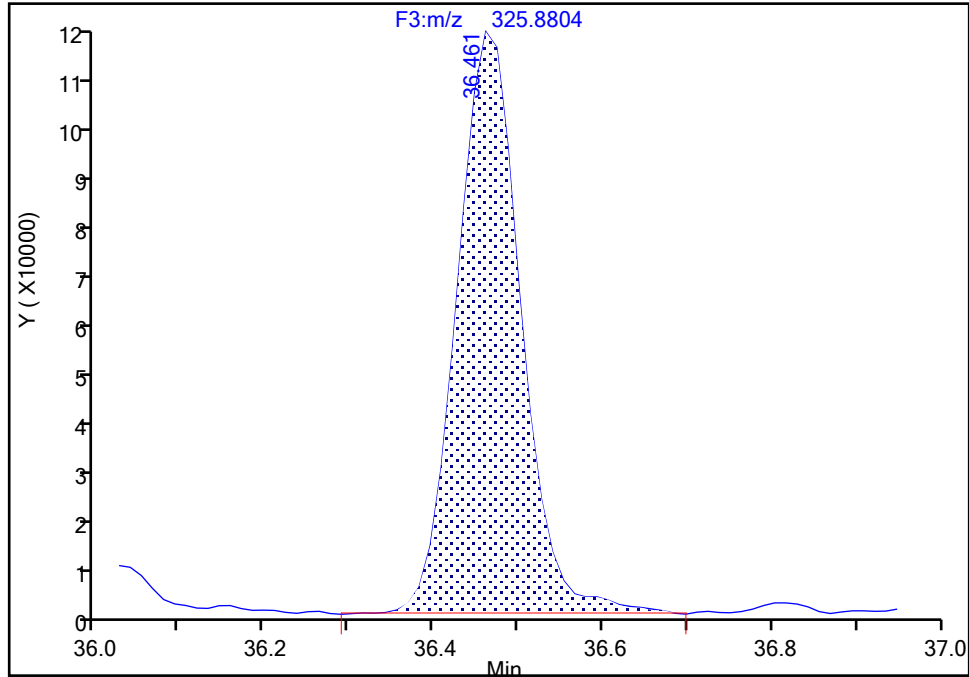
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-118, CAS: 31508-00-6

Signal: 1

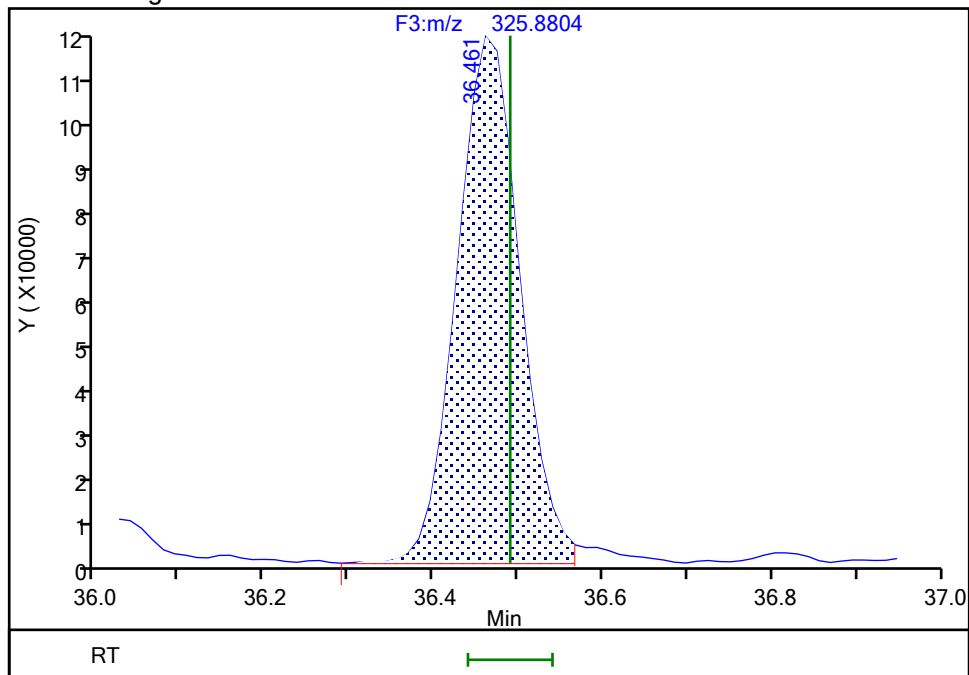
RT: 36.46
Area: 593958
Amount: 13.530028
Amount Units: pg/ul

Processing Integration Results



RT: 36.46
Area: 579990
Amount: 13.172212
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 12-Jun-2024 10:30:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

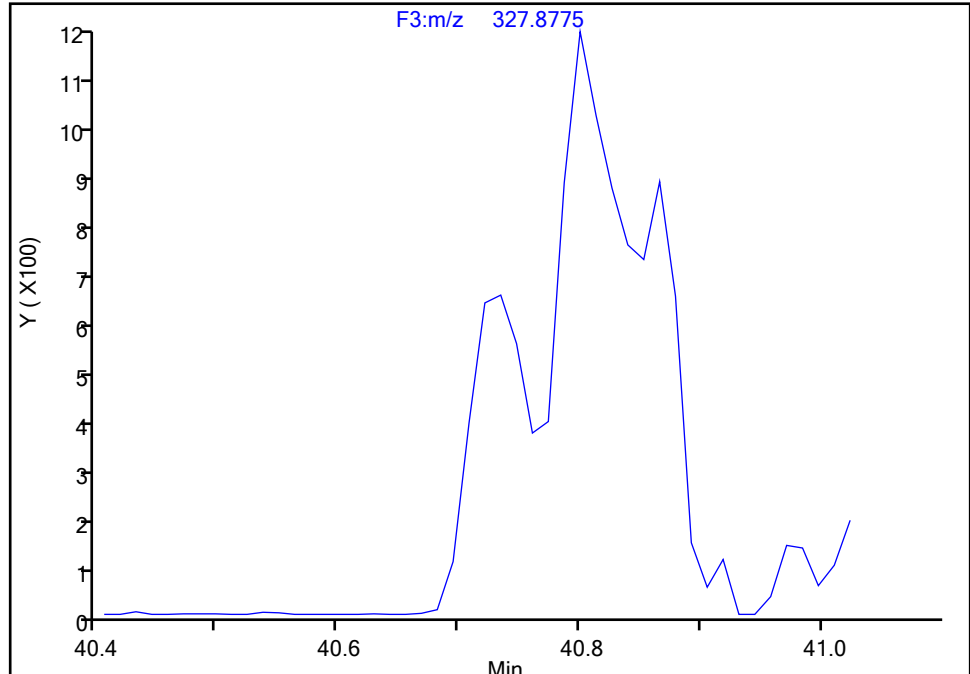
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-126, CAS: 57465-28-8

Signal: 2

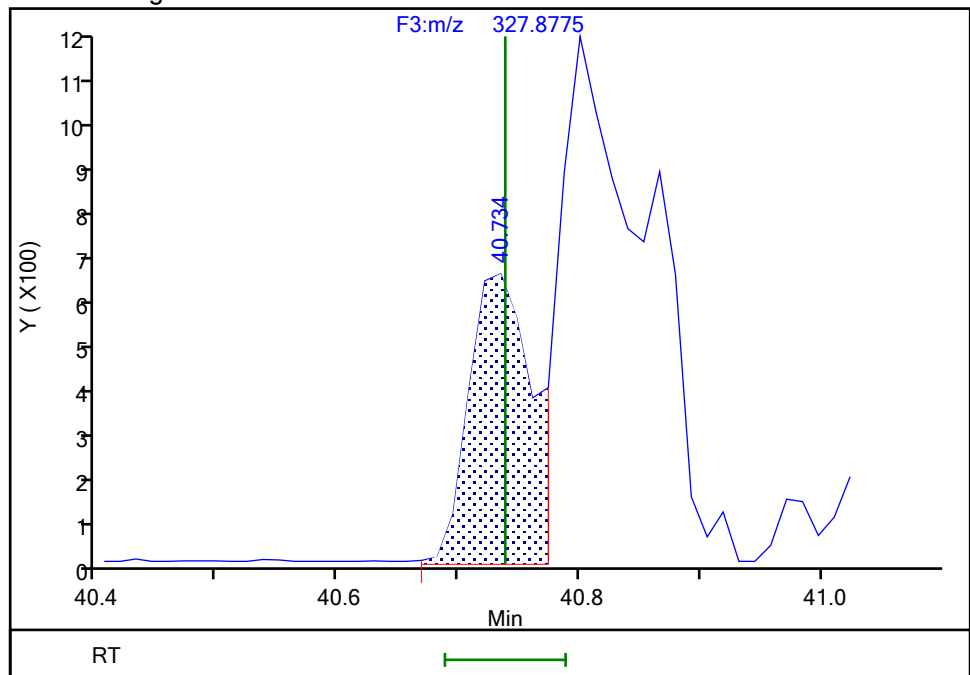
Not Detected
Expected RT: 40.74

Processing Integration Results



RT: 40.73
Area: 2180
Amount: 0.065006
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:26:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

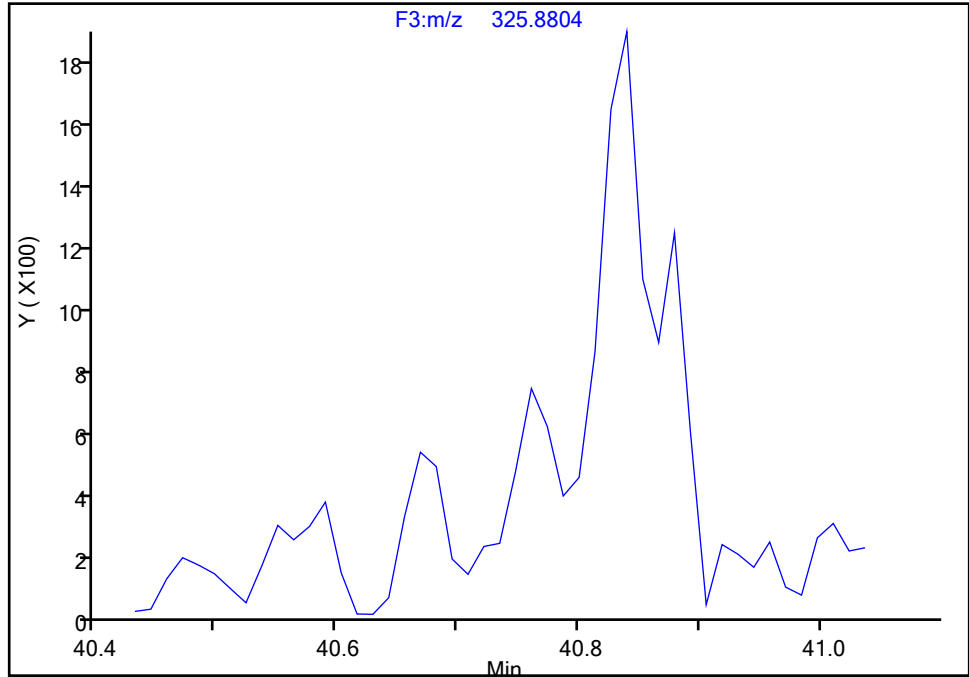
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-126, CAS: 57465-28-8

Signal: 1

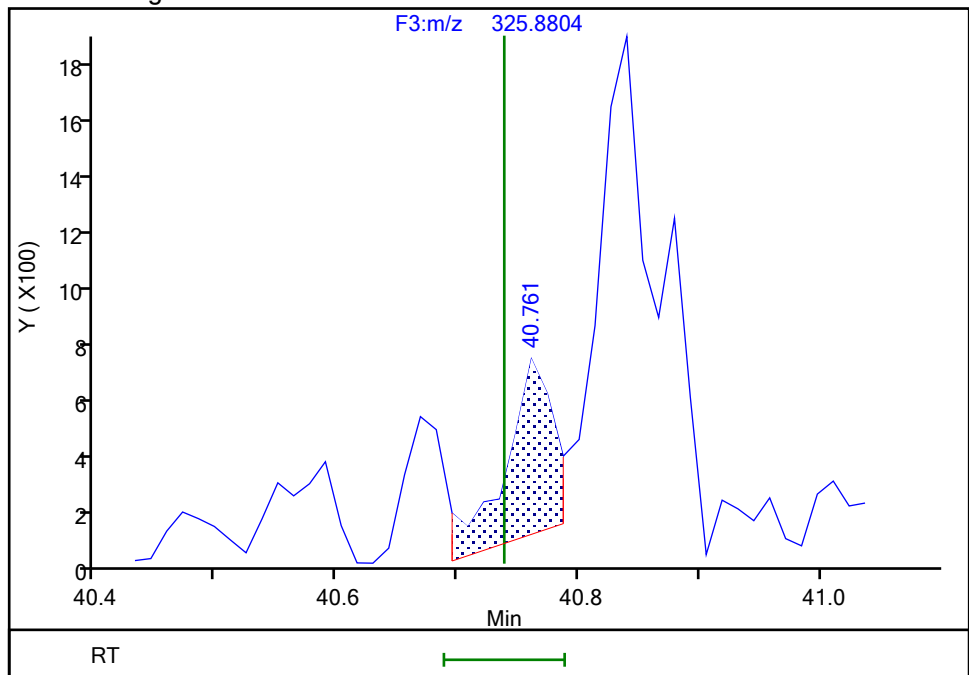
Not Detected
Expected RT: 40.74

Processing Integration Results



RT: 40.76
Area: 1635
Amount: 0.065006
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:26:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

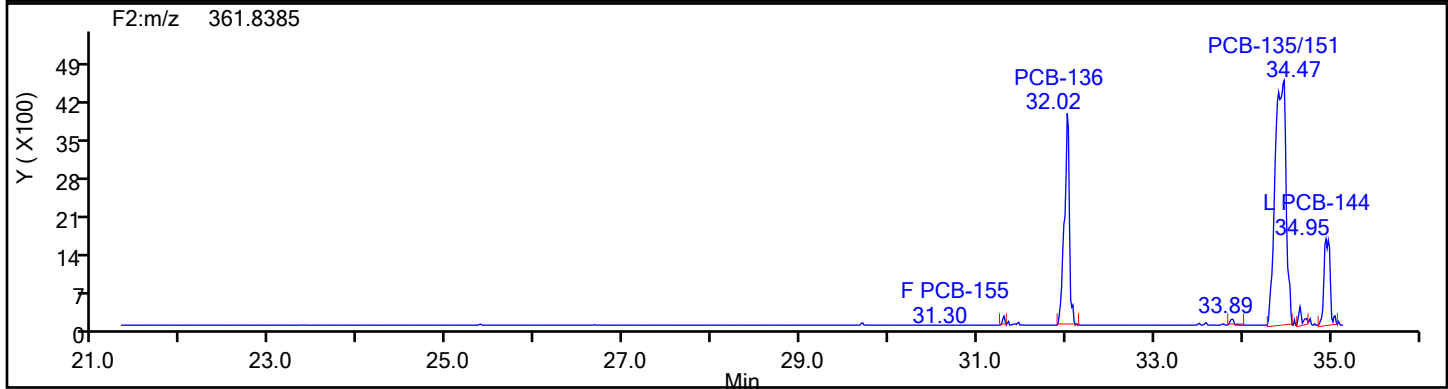
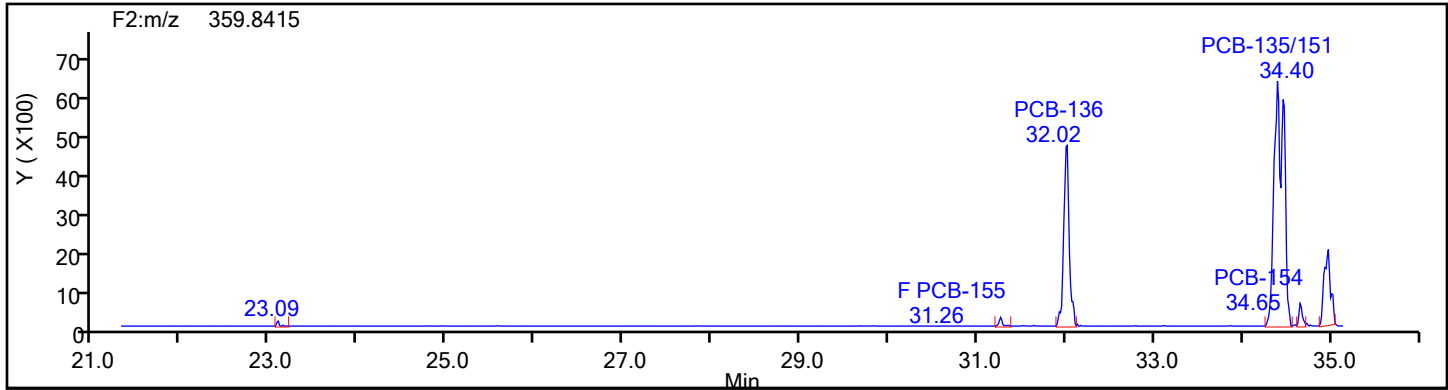
Audit Reason: Baseline

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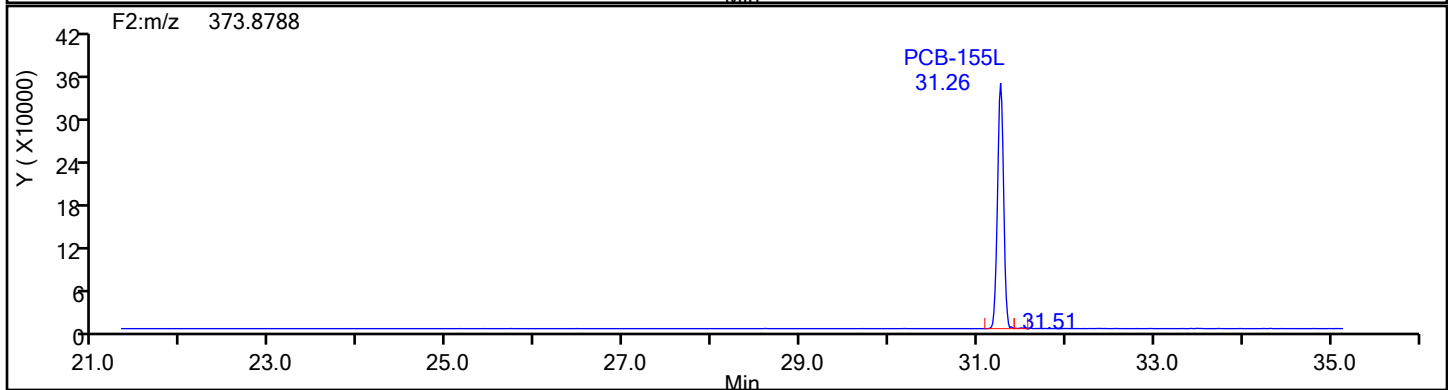
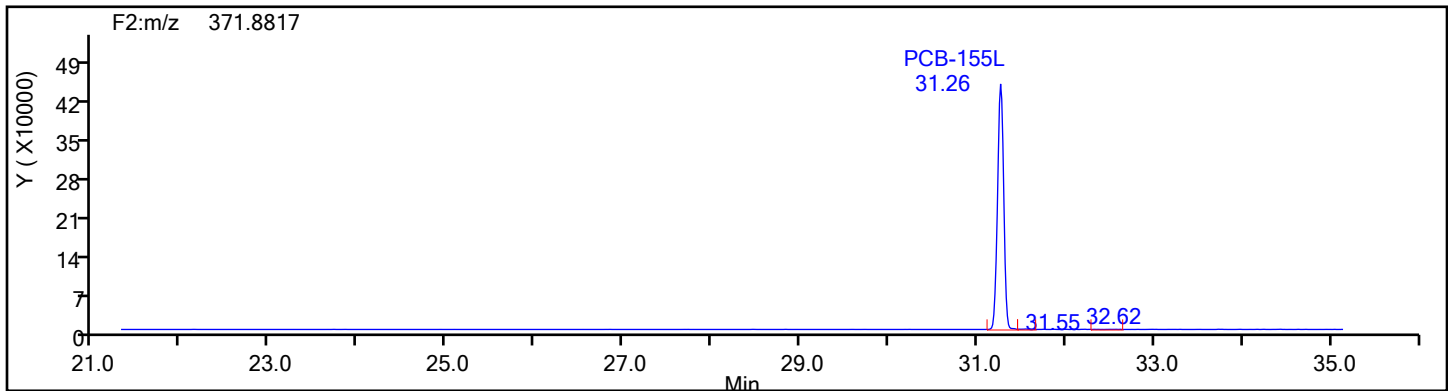
BASFHWC-G-0122661
9/6/2024
2:43:26 PM

Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

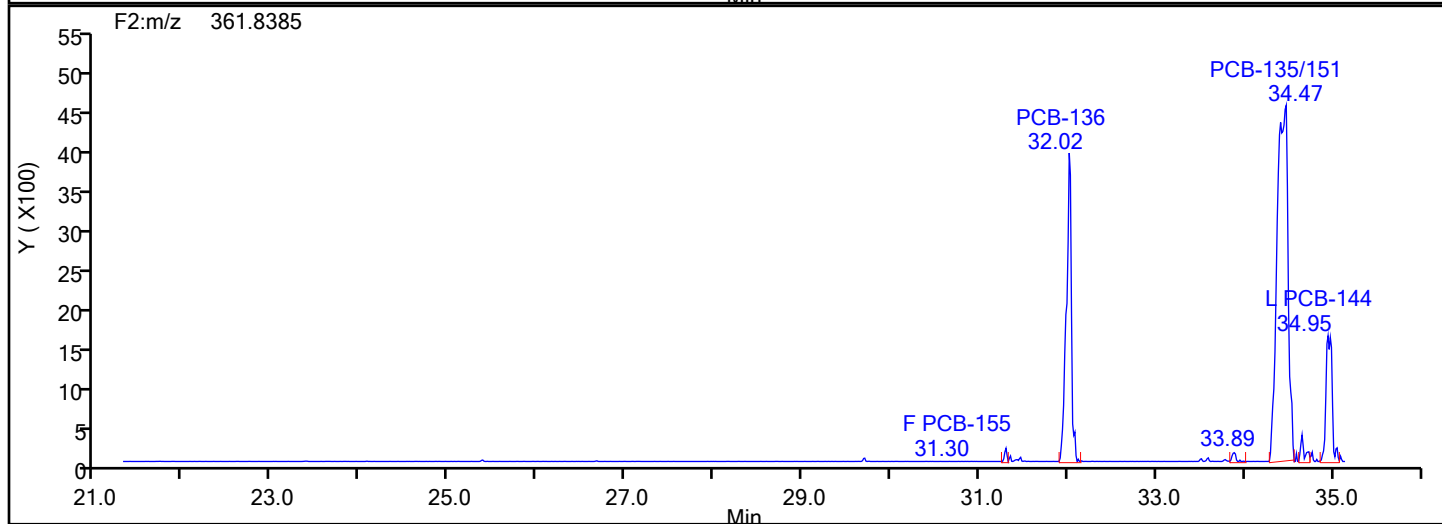
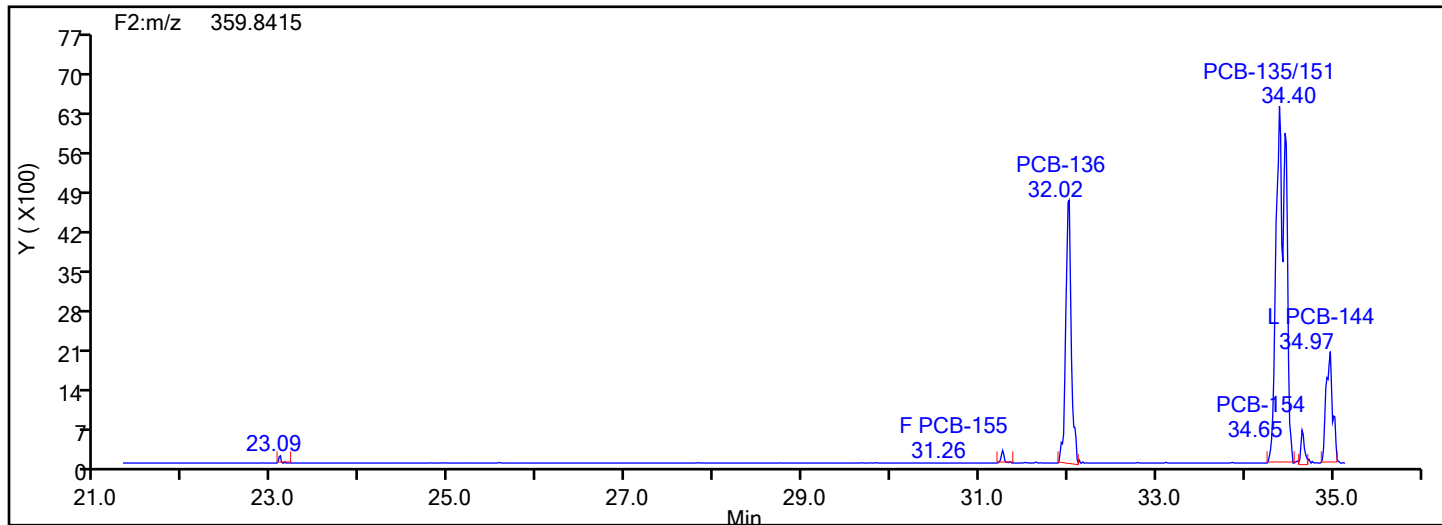


HxPCB F2 Standards

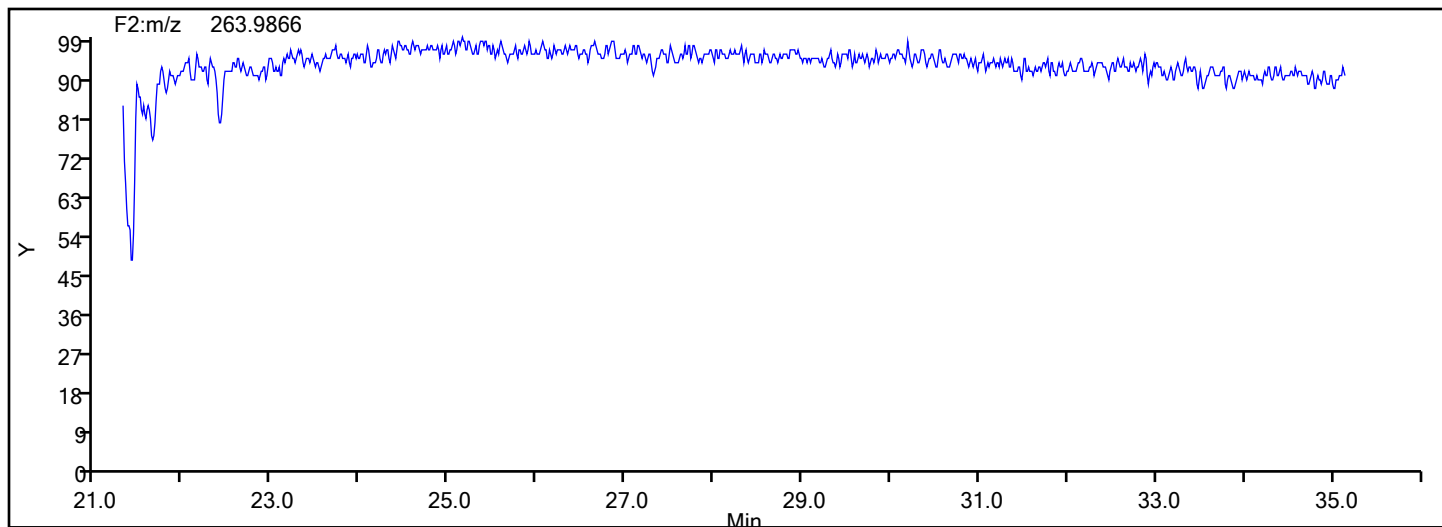


Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d		
Injection Date:	11-Jun-2024 19:08:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23-NO.3 BOILER-RUN 4 COMBINED		
Worklist#:	87502	Sample Line#:	12
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
HxPCB F2			

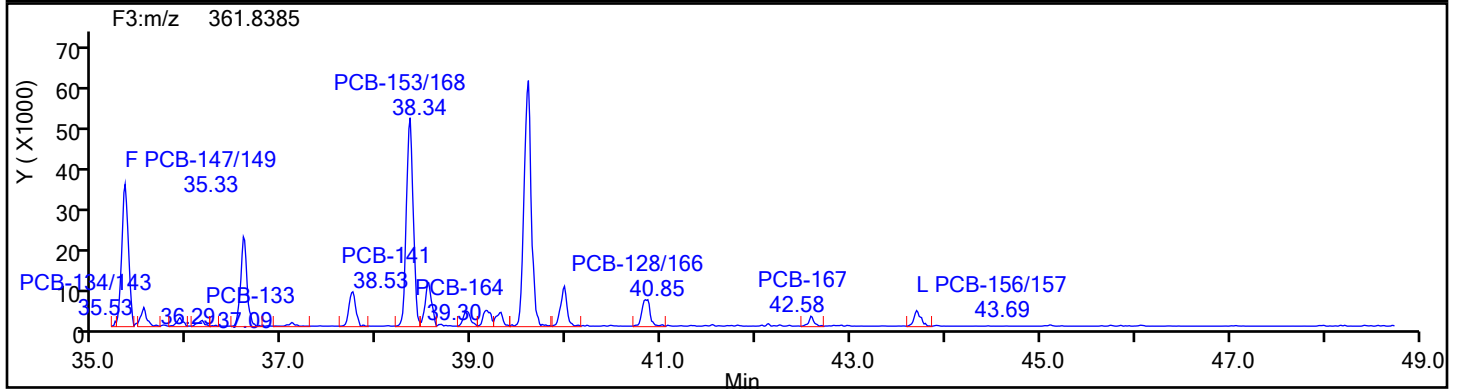
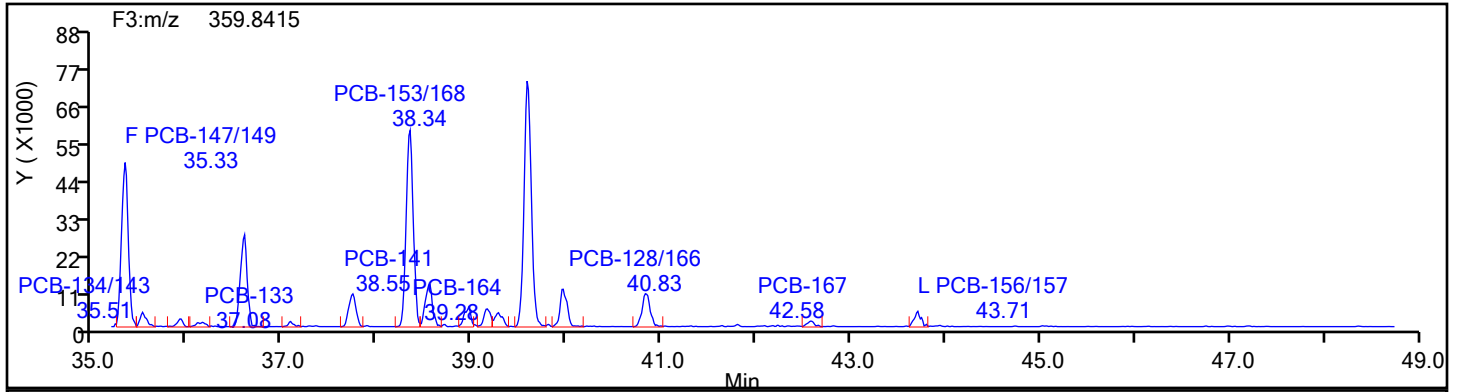


HxPCB F2 Lock Mass

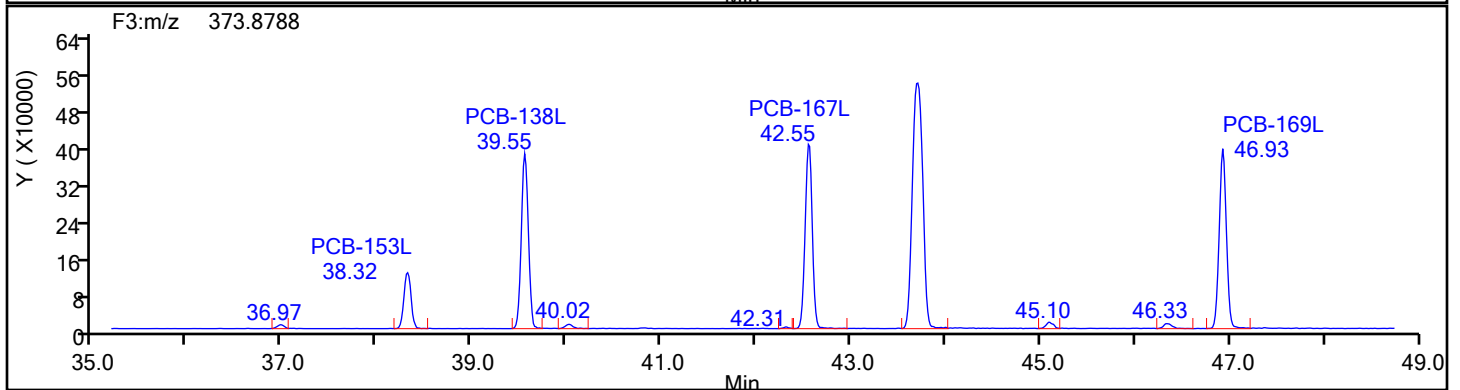
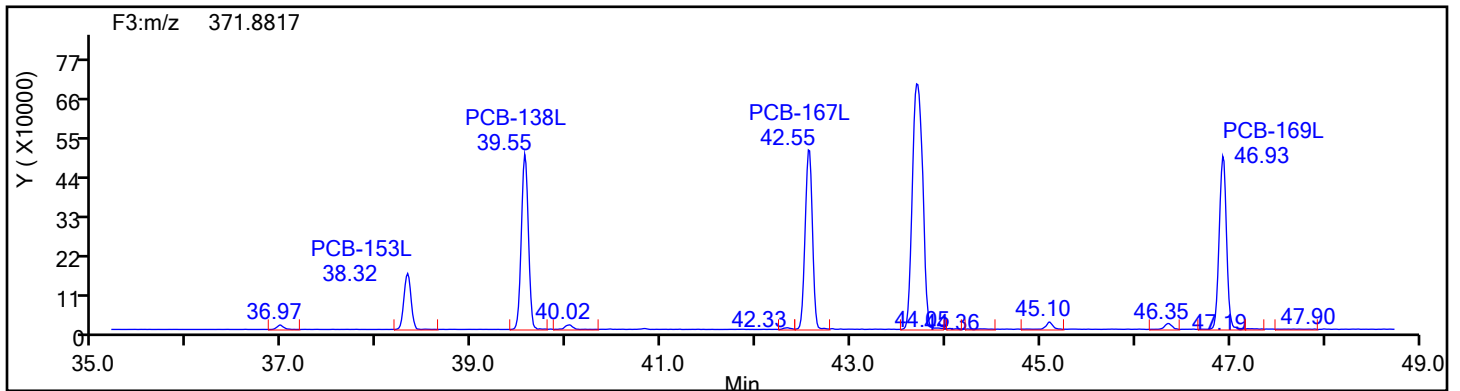


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d
Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

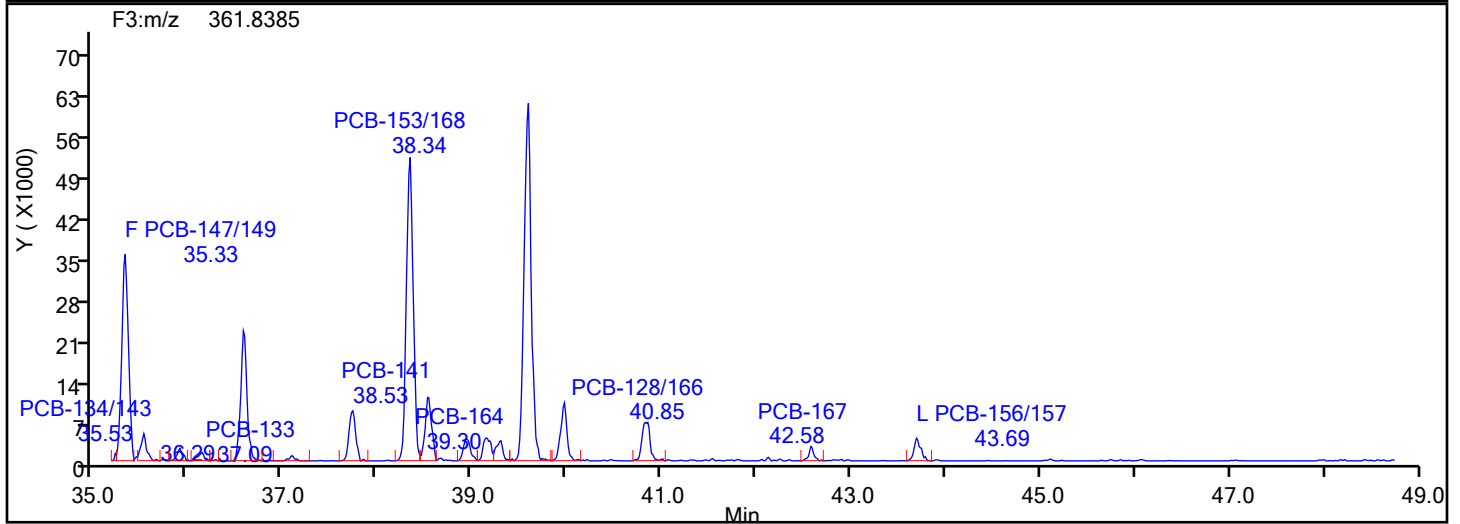
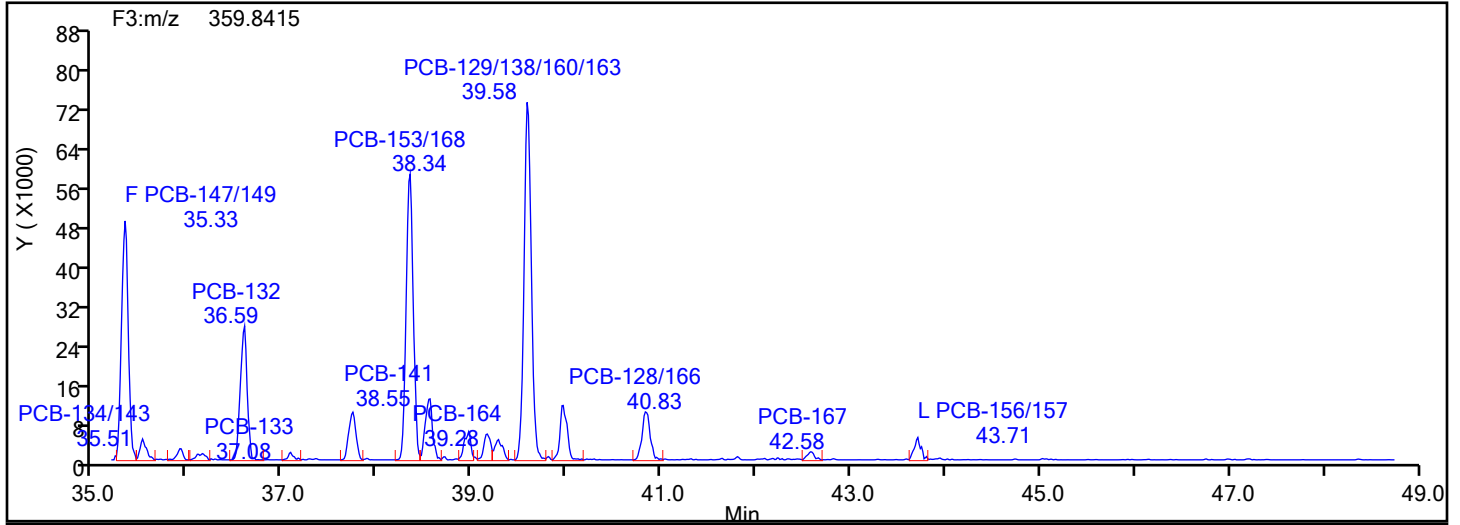


HxPCB F3 Standards

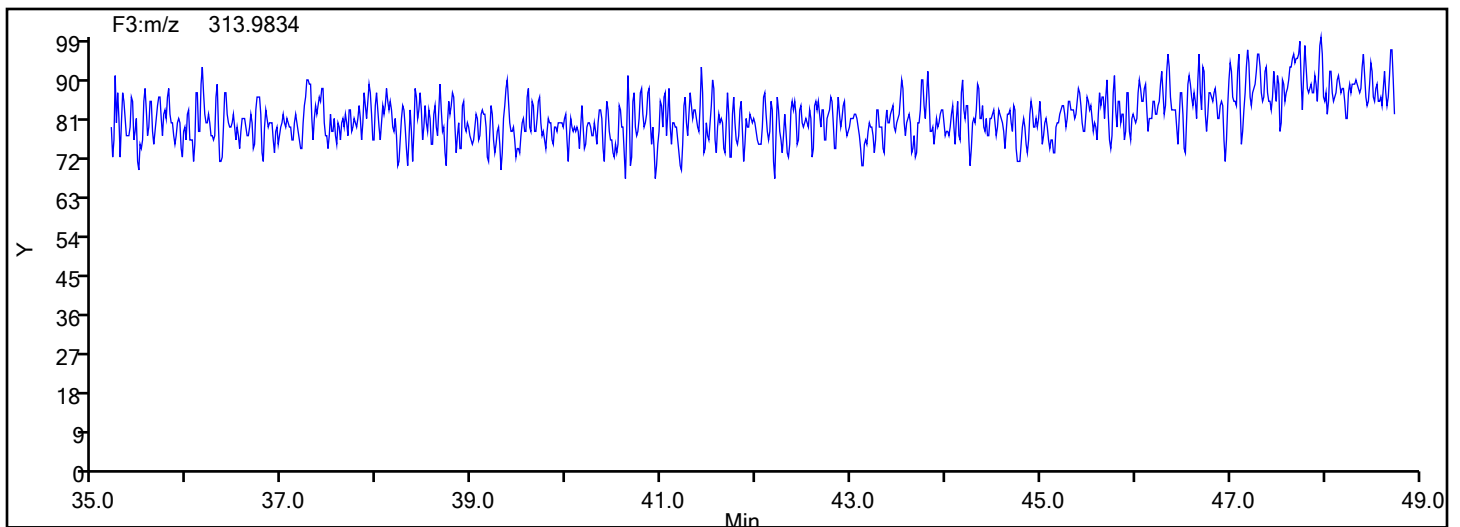


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d
Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d

Injection Date: 11-Jun-2024 19:08:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 4 COMBINED

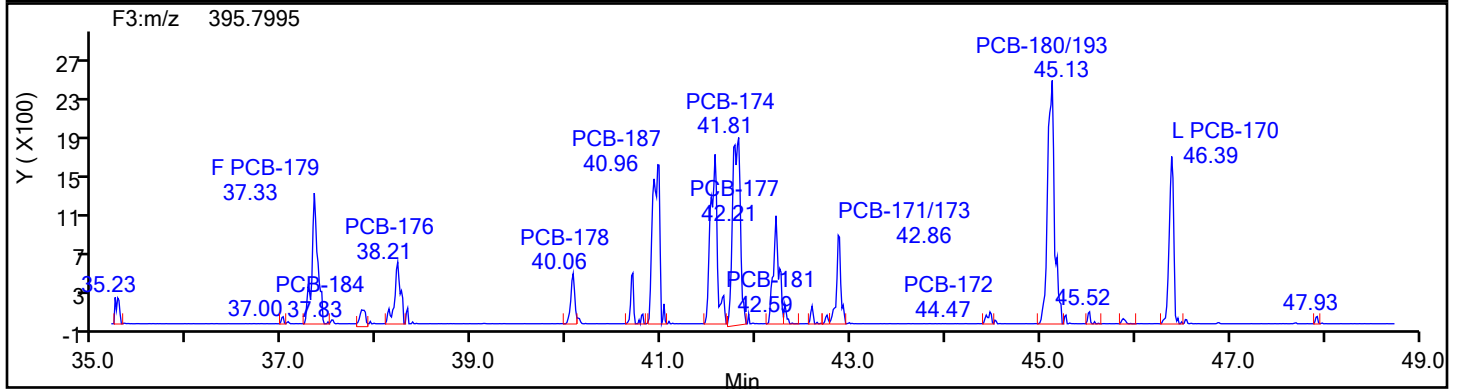
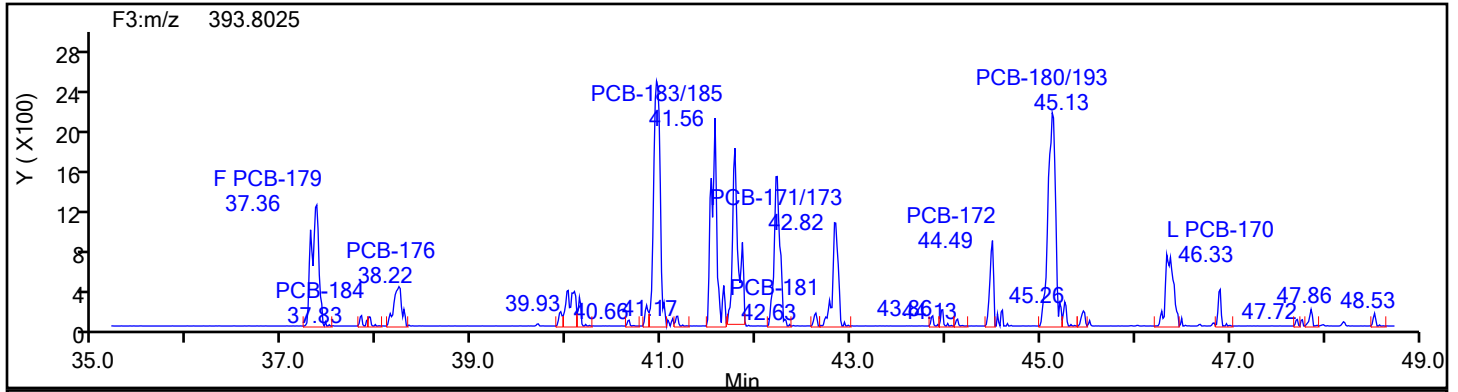
Worklist#: 87502

Sample Line#: 12

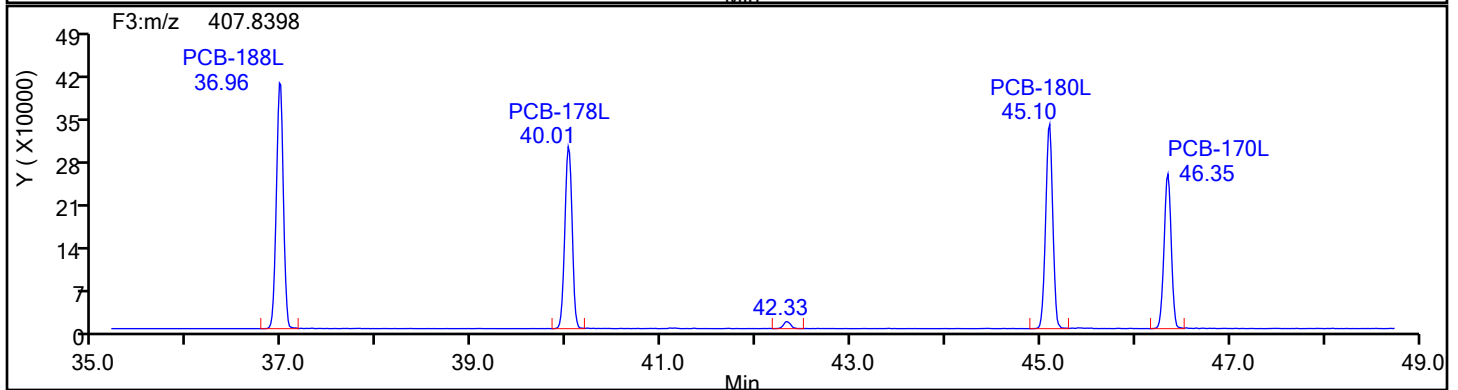
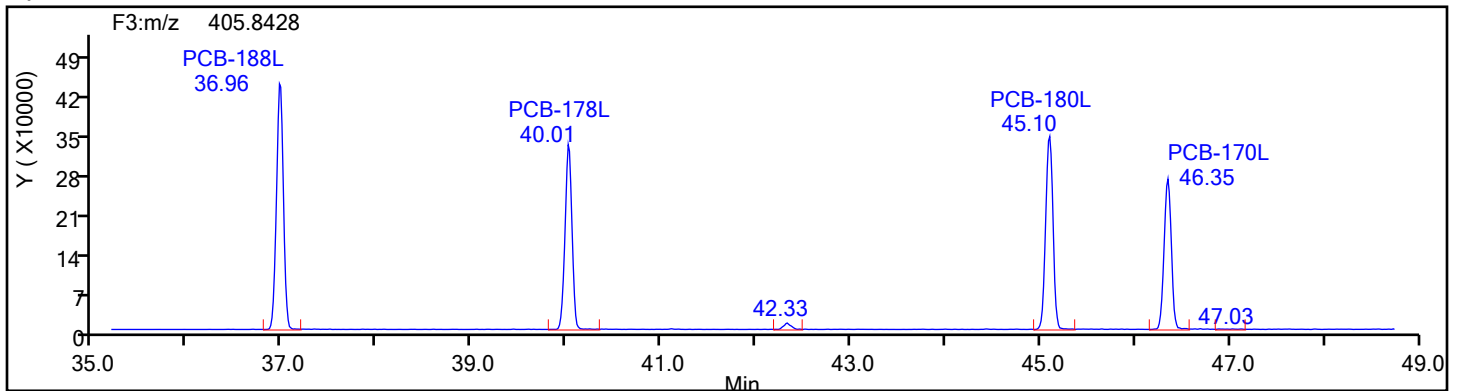
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3

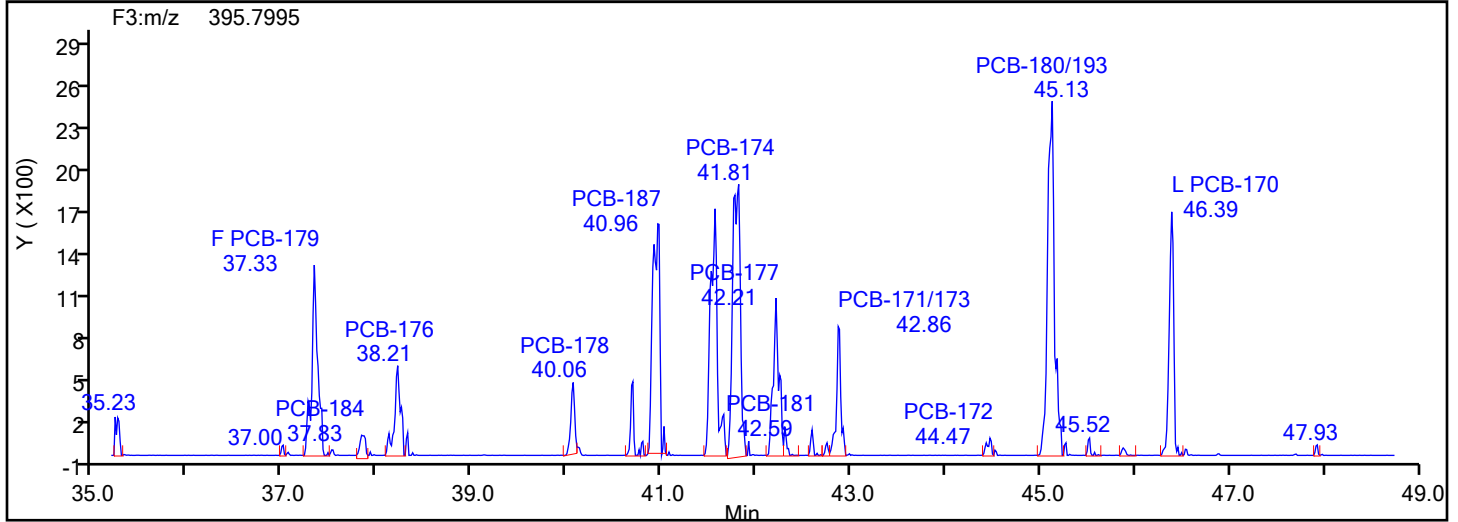
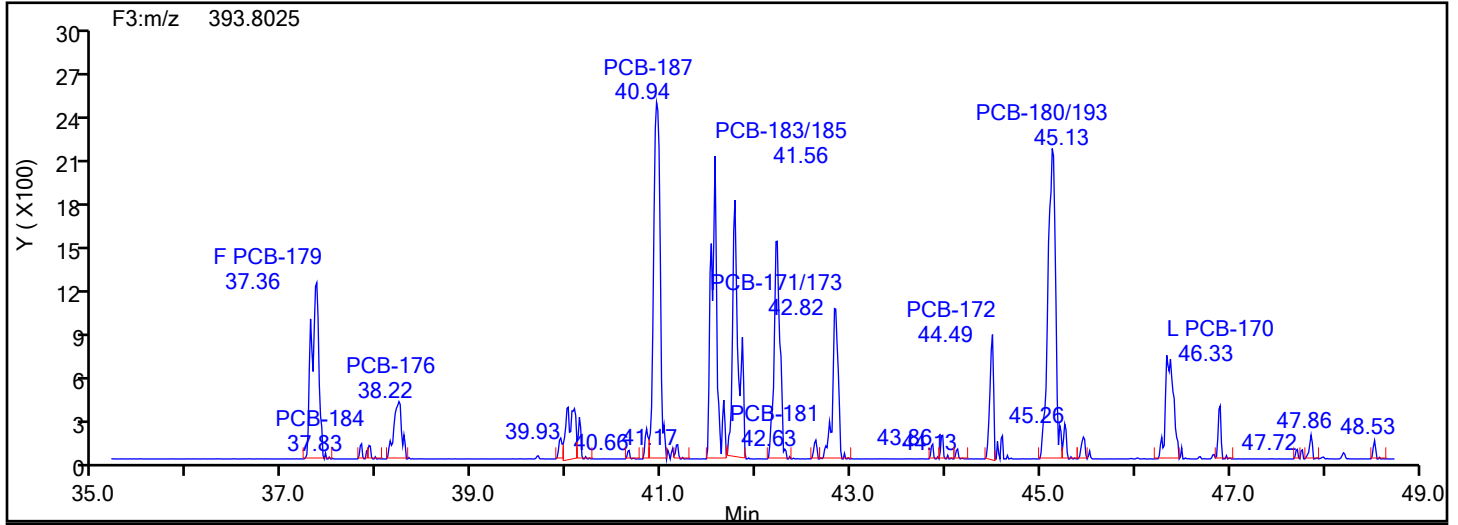


HpPCB F3 Standards

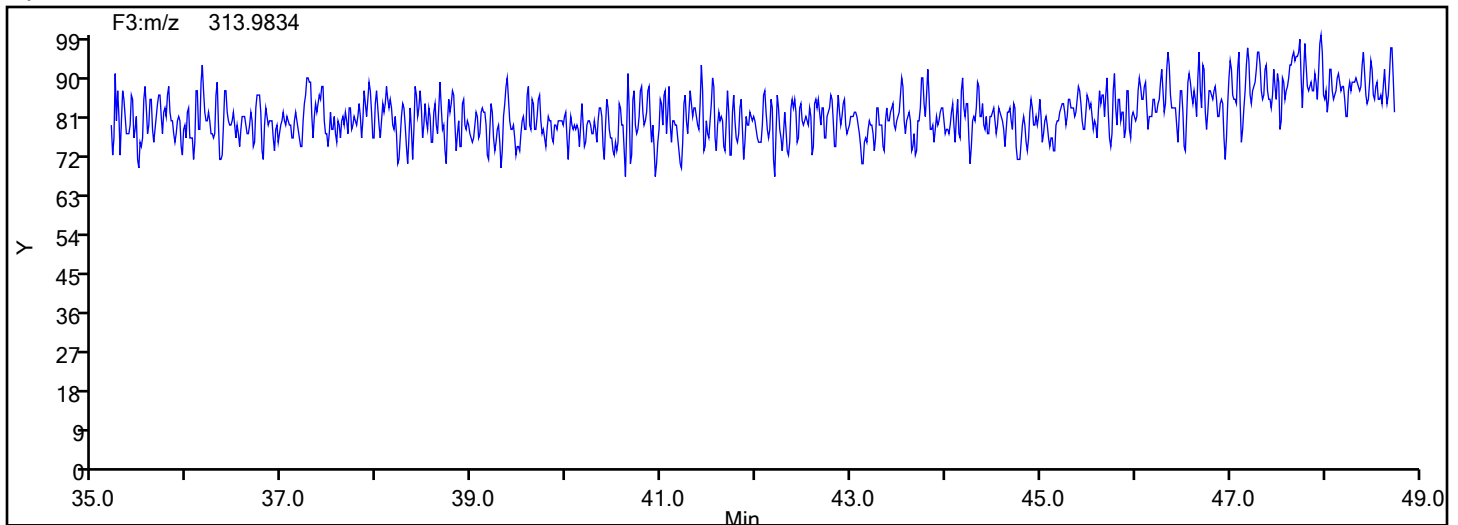


Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

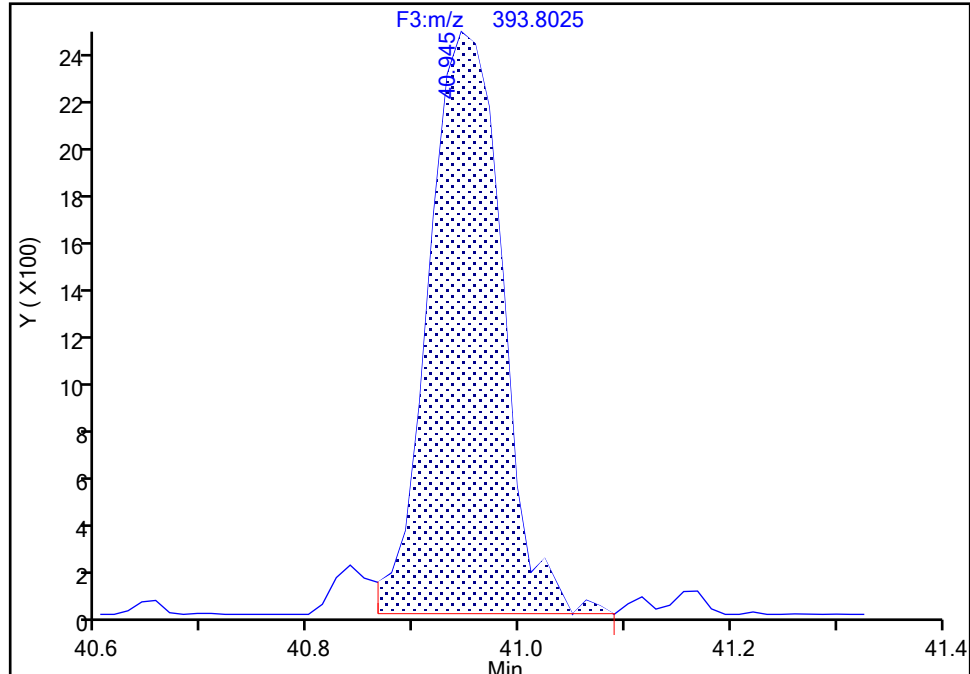
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-187, CAS: 52663-68-0

Signal: 1

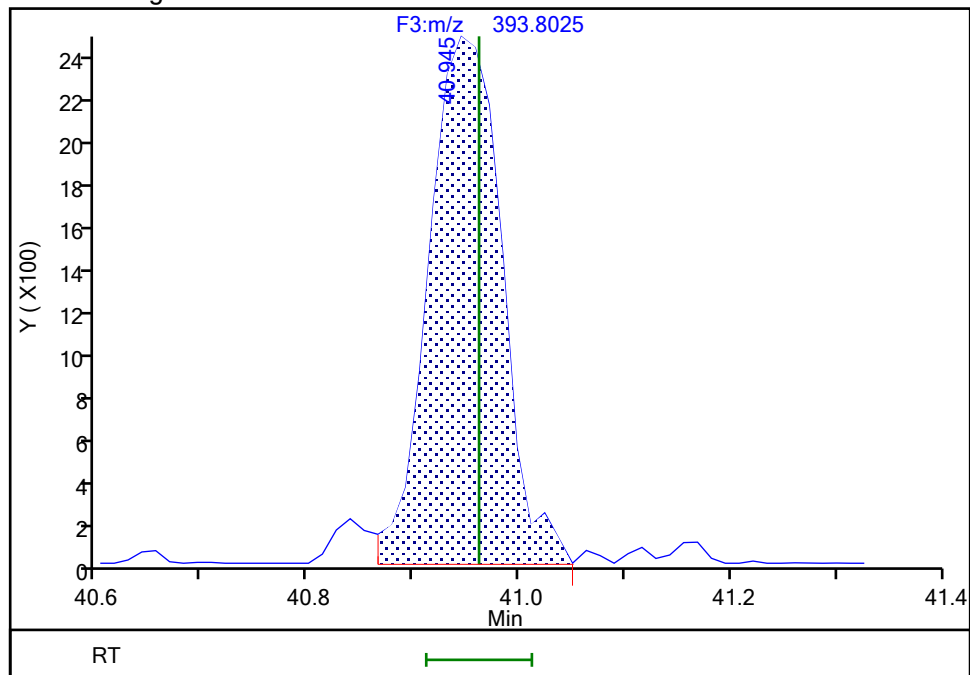
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Area: 11726
Amount: 0.510089
Amount Units: pg/ul

Processing Integration Results



RT: 40.94
Area: 11652
Amount: 0.511750
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:29:56 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

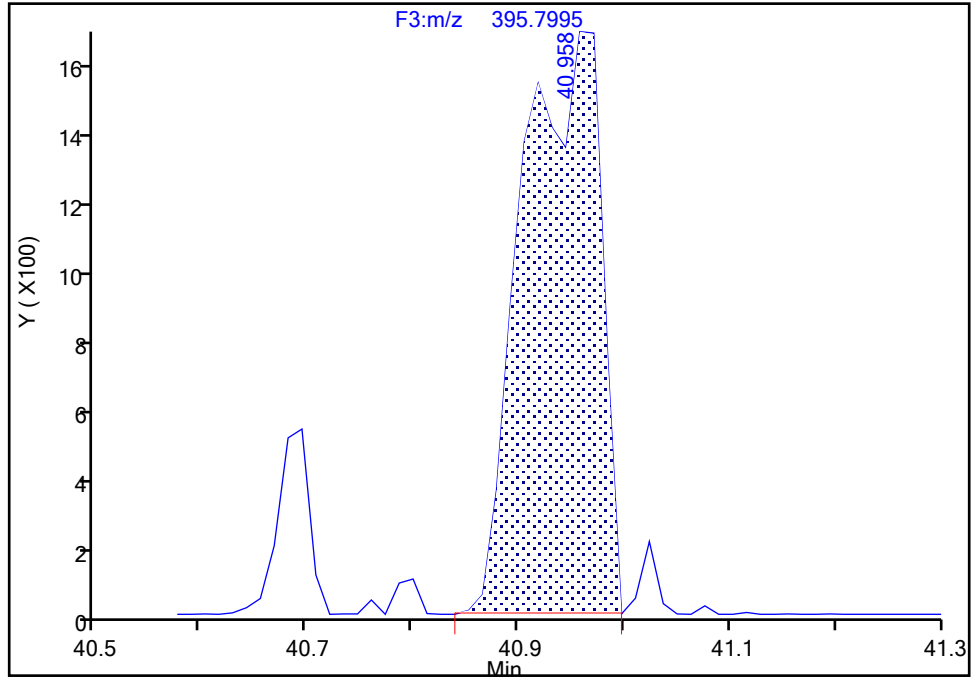
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Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-187, CAS: 52663-68-0

Signal: 2

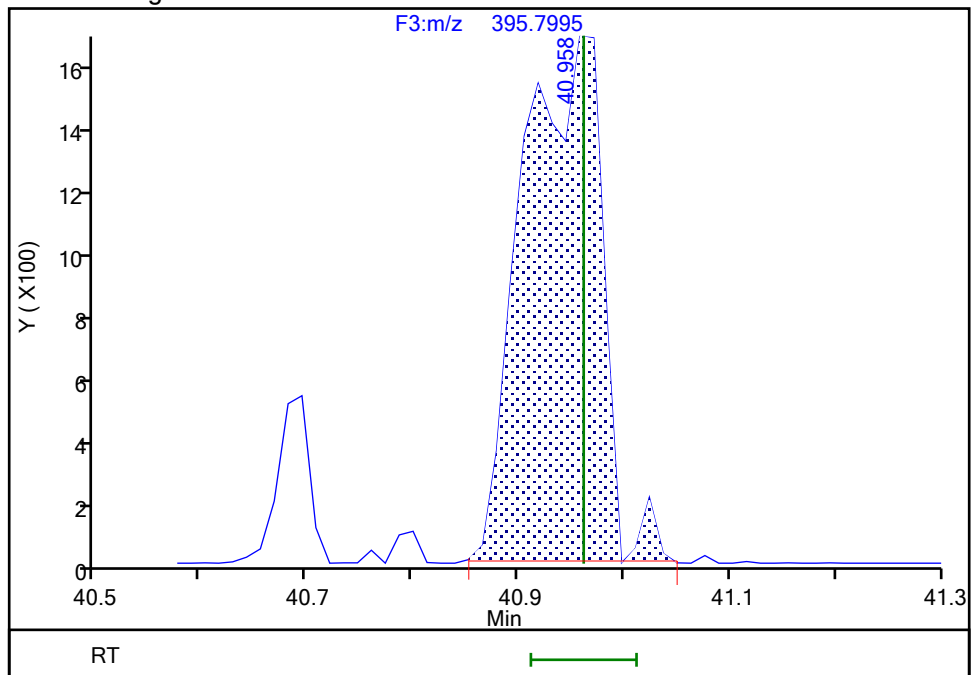
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Amount: 0.510089
Amount Units: pg/ul

Processing Integration Results



RT: 40.96
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Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:30:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

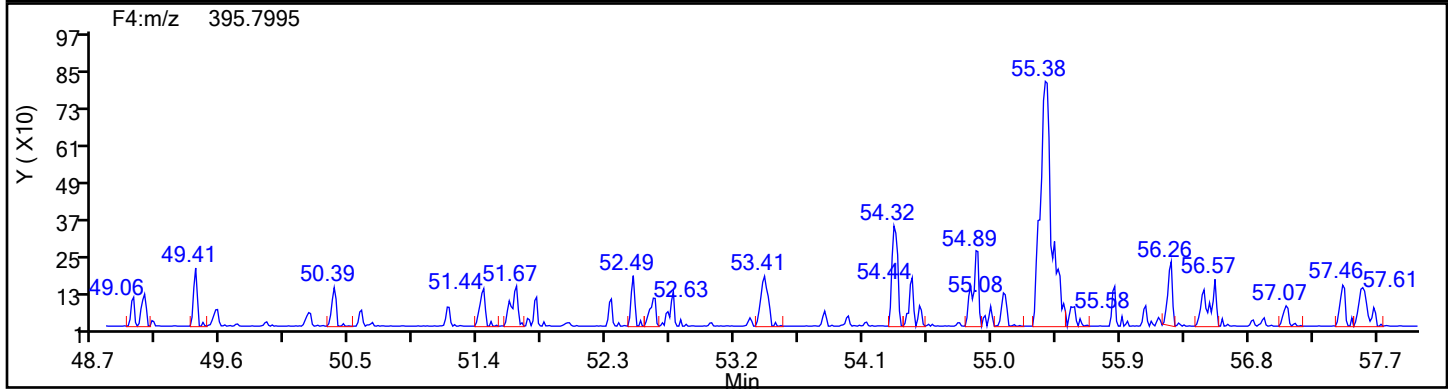
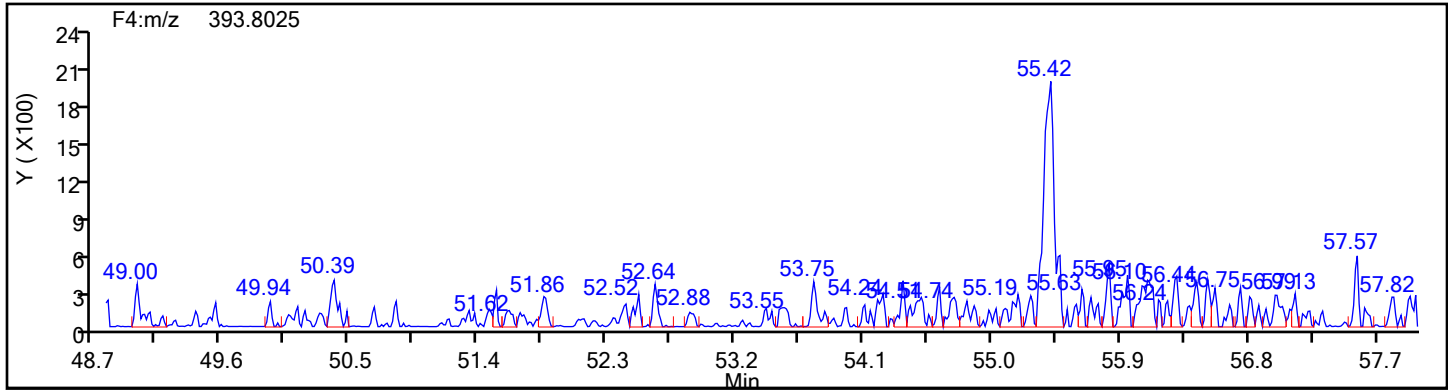
Audit Reason: Baseline

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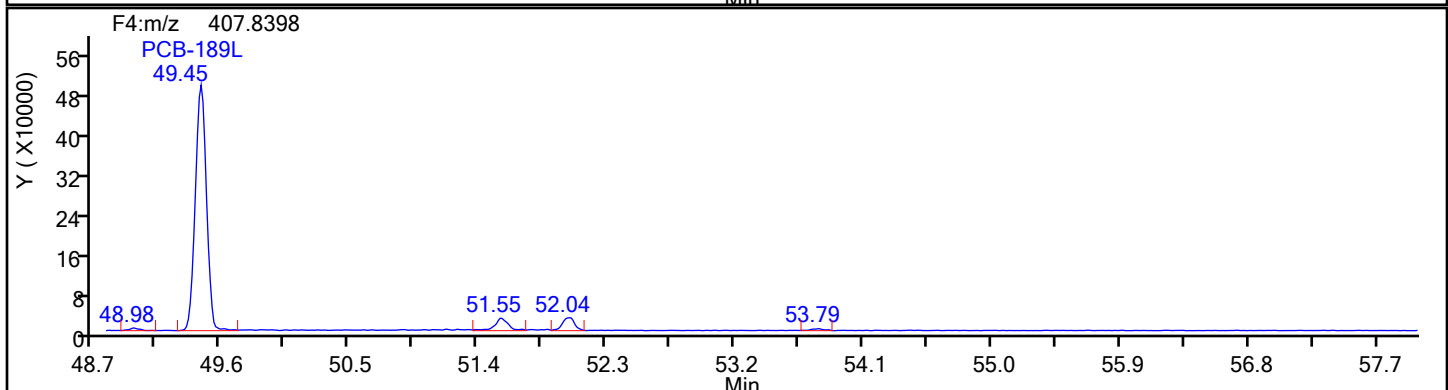
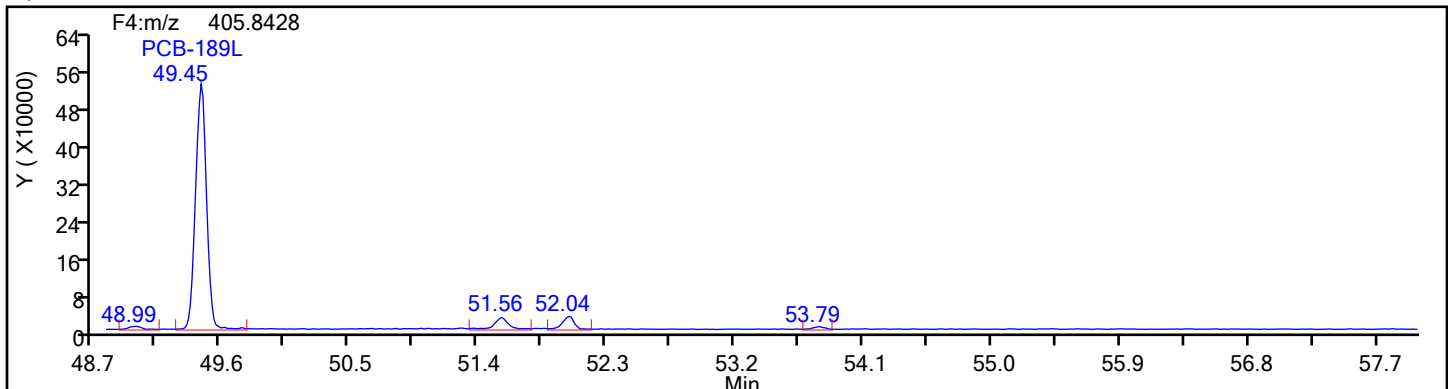
BASFHWC-G-012202669
9/6/2024
2:43:26 PM

Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

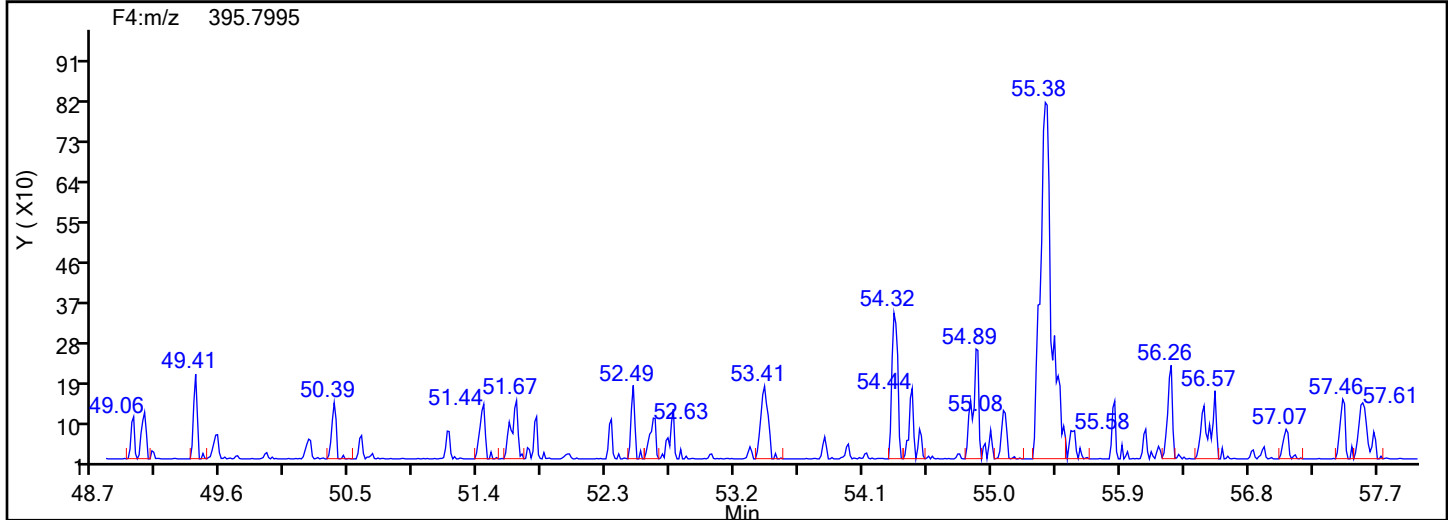
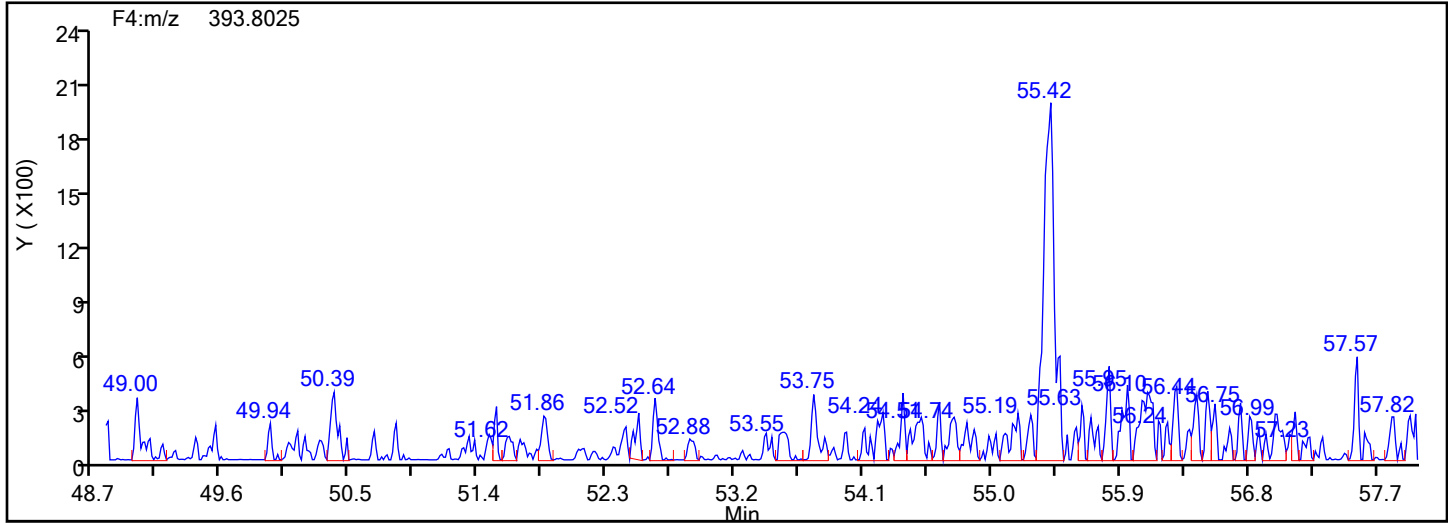


HpPCB F4 Standards

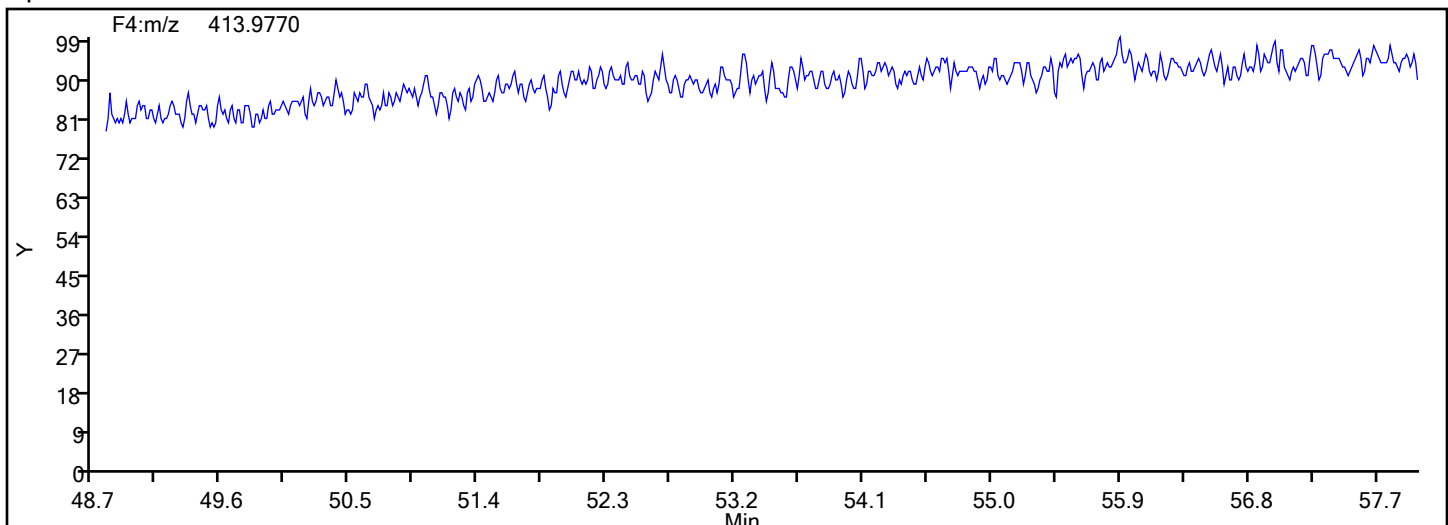


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d

Injection Date: 11-Jun-2024 19:08:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 4 COMBINED

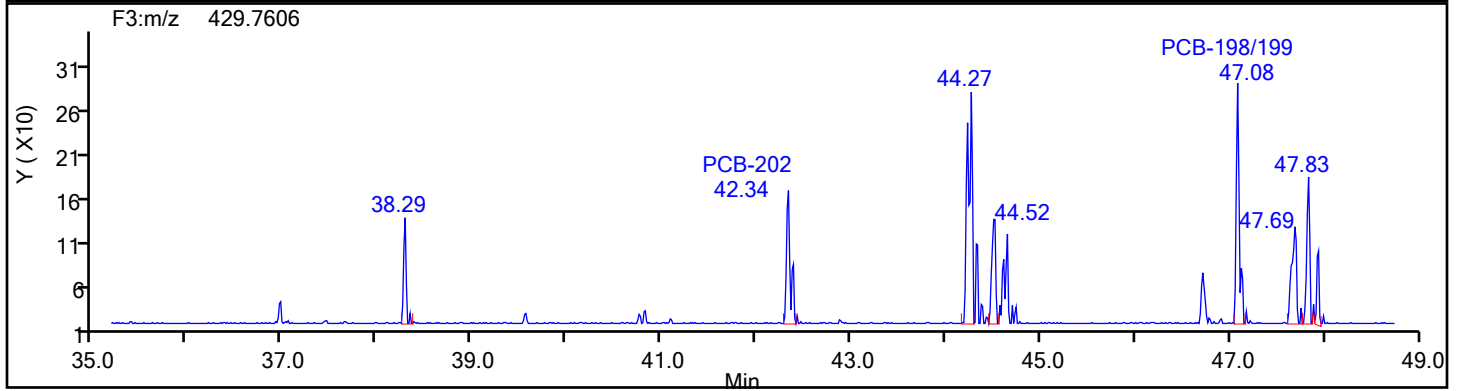
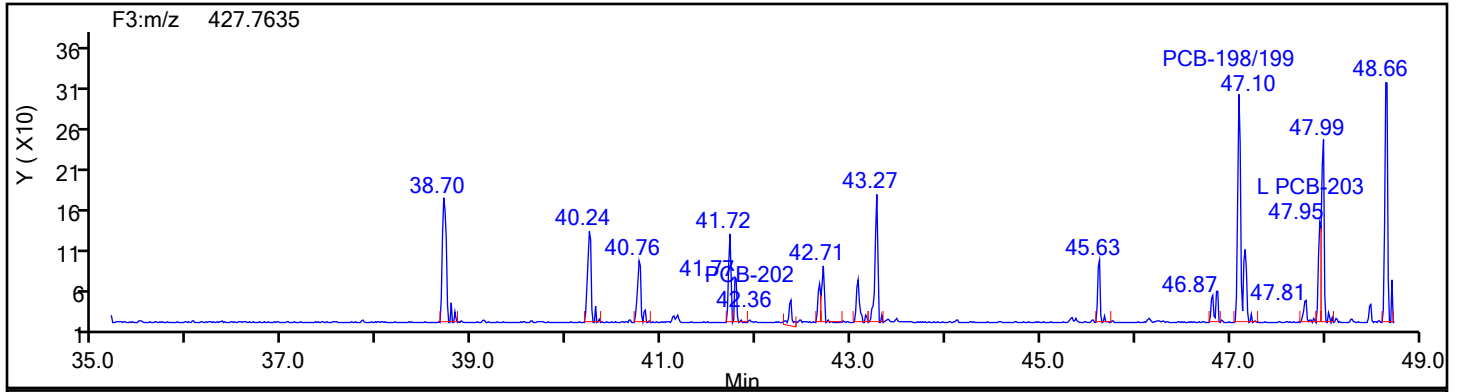
Worklist#: 87502

Sample Line#: 12

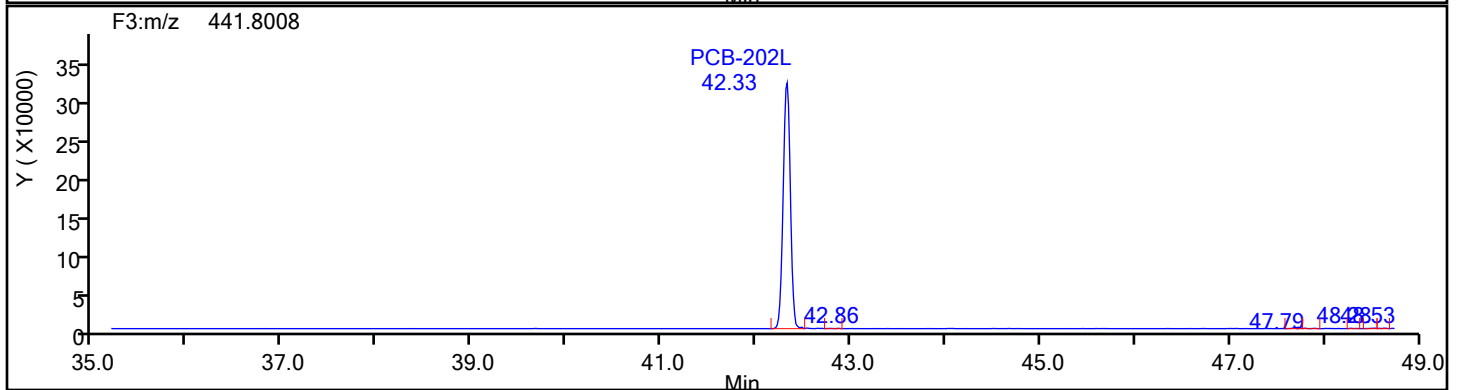
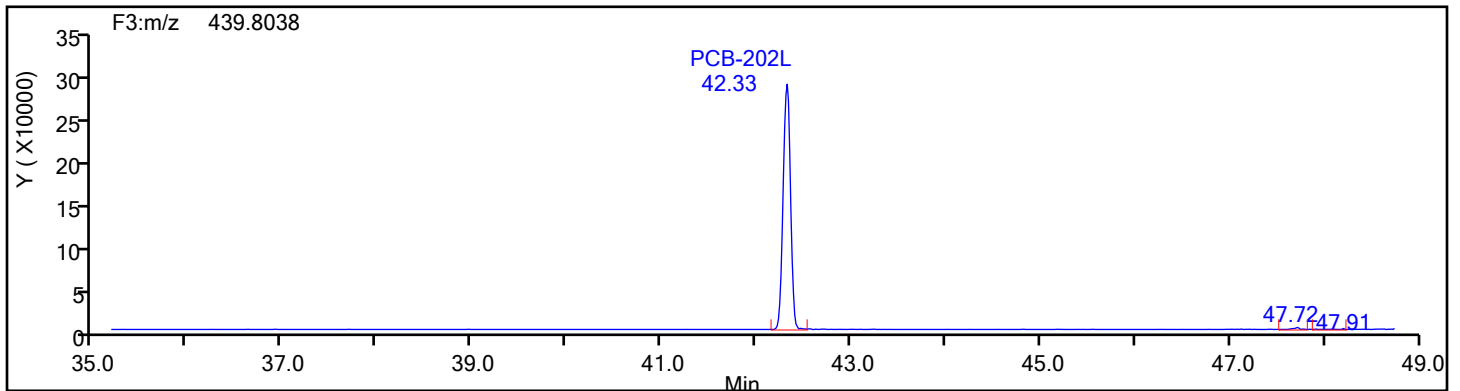
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



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Injection Vol: 1.0 ul

Operator ID: Xcalibur System

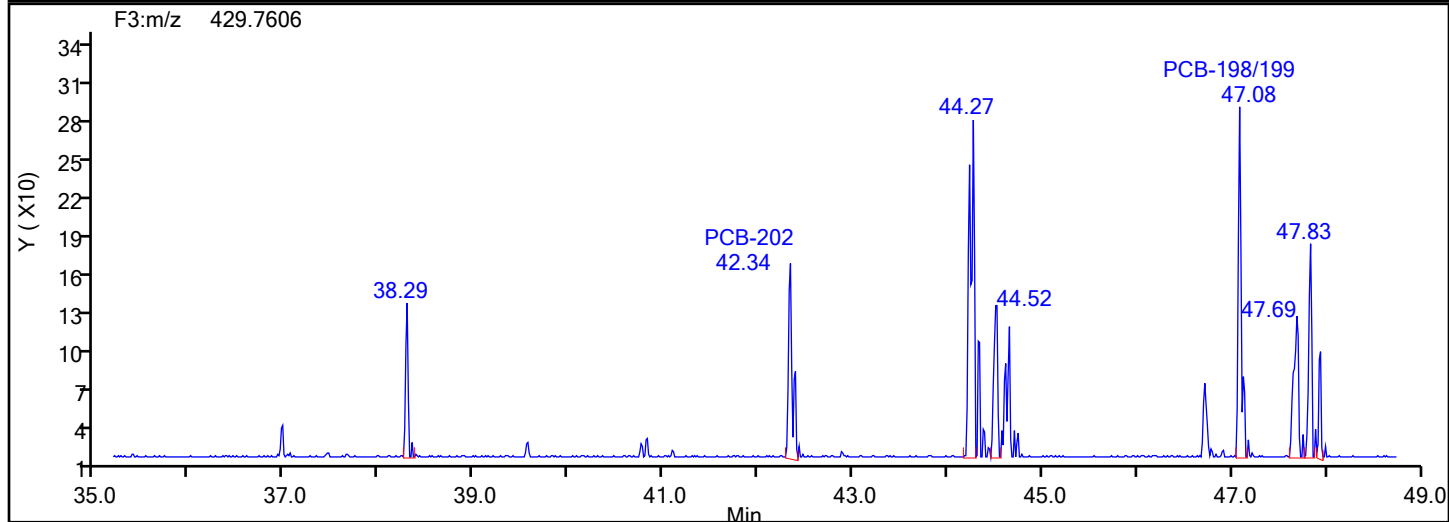
Limit Group: HR - EPA 23 PCB ICAL

Worklist#: 87502

Sample Line#: 12

Column Dia: 0.25 mm

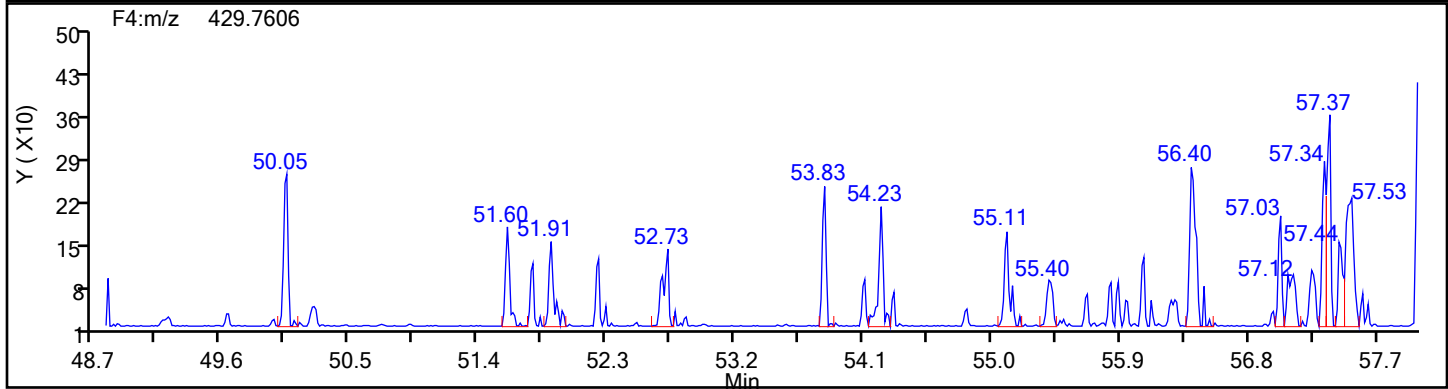
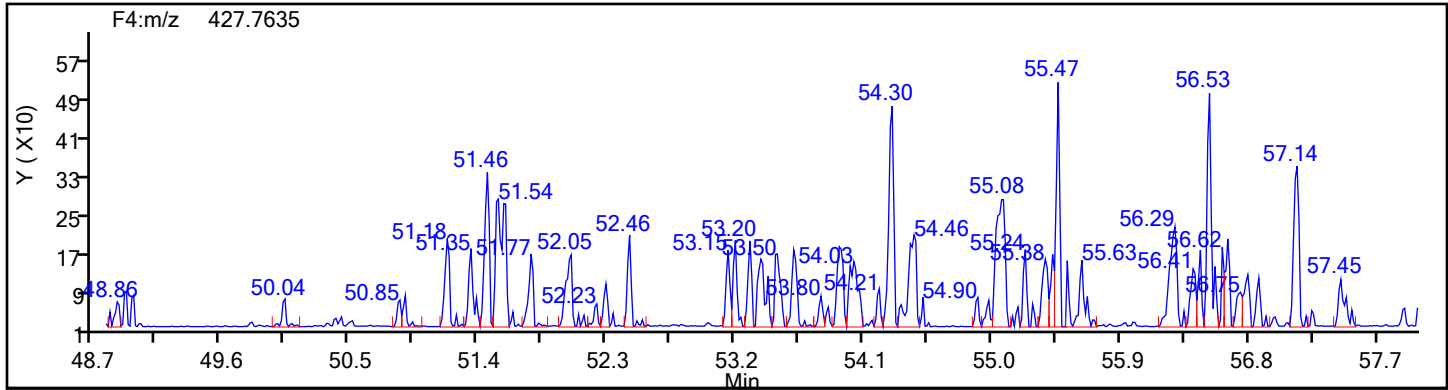
OcPCB F3



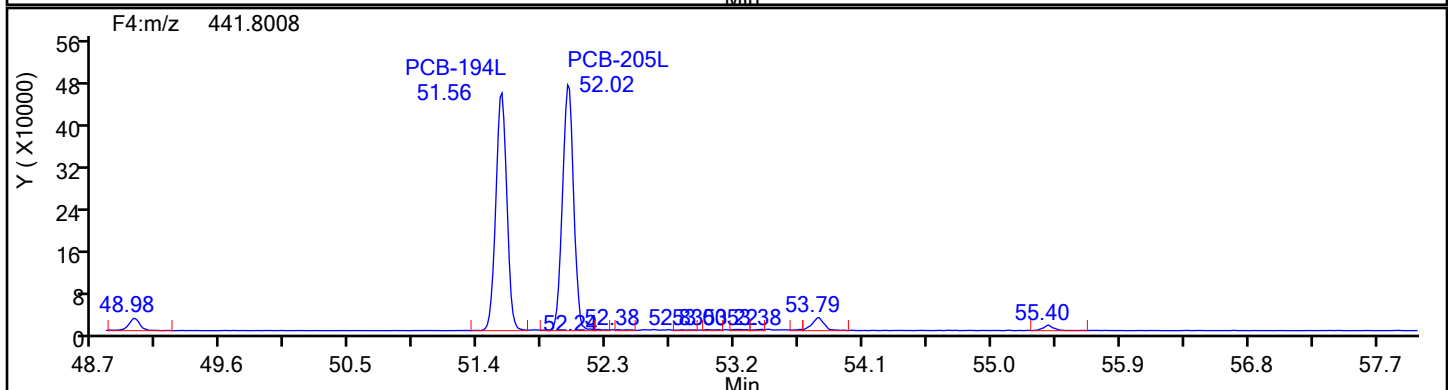
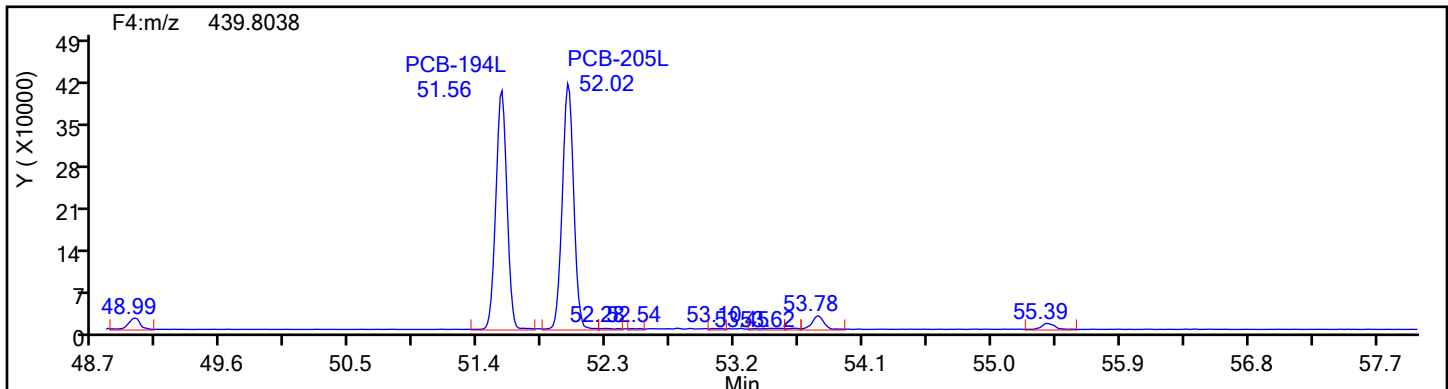
A Total Ion Chromatogram (TIC) plot showing detector response over time. The x-axis is labeled 'Min' and ranges from 35.0 to 49.0. The y-axis is labeled 'Y' and ranges from 0 to 99. A single, sharp, prominent peak is visible at approximately 35.06 minutes, reaching a maximum intensity of about 95. The baseline is relatively flat with minor noise. The text 'F3:m/z 313.9834' is displayed in the top left corner of the plot area.

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d
Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

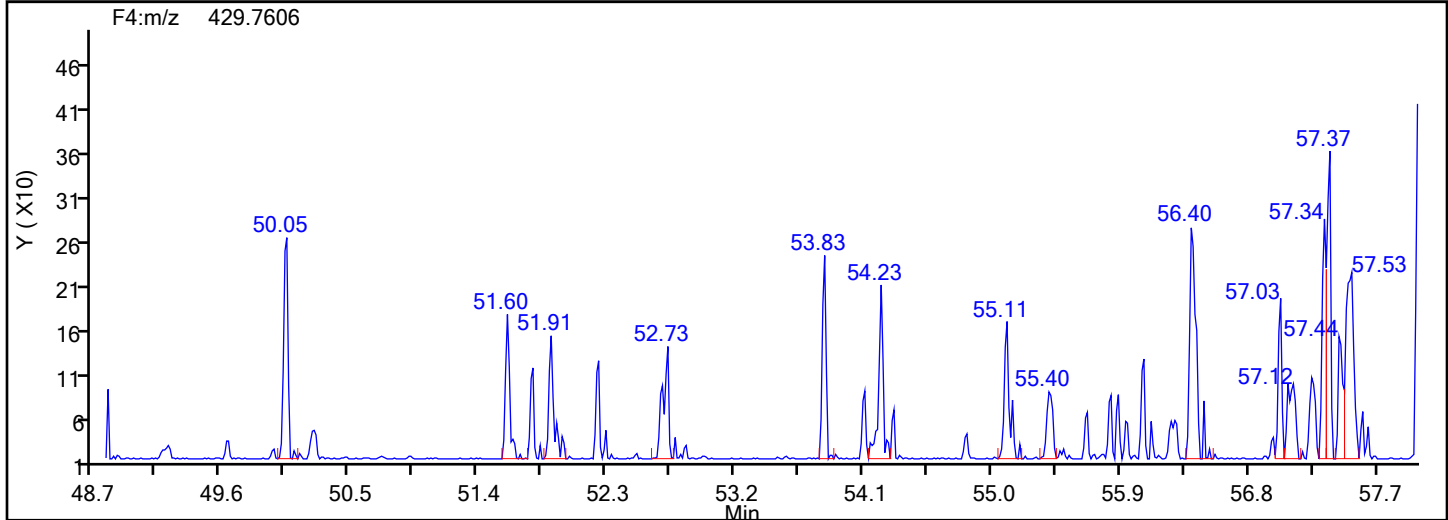
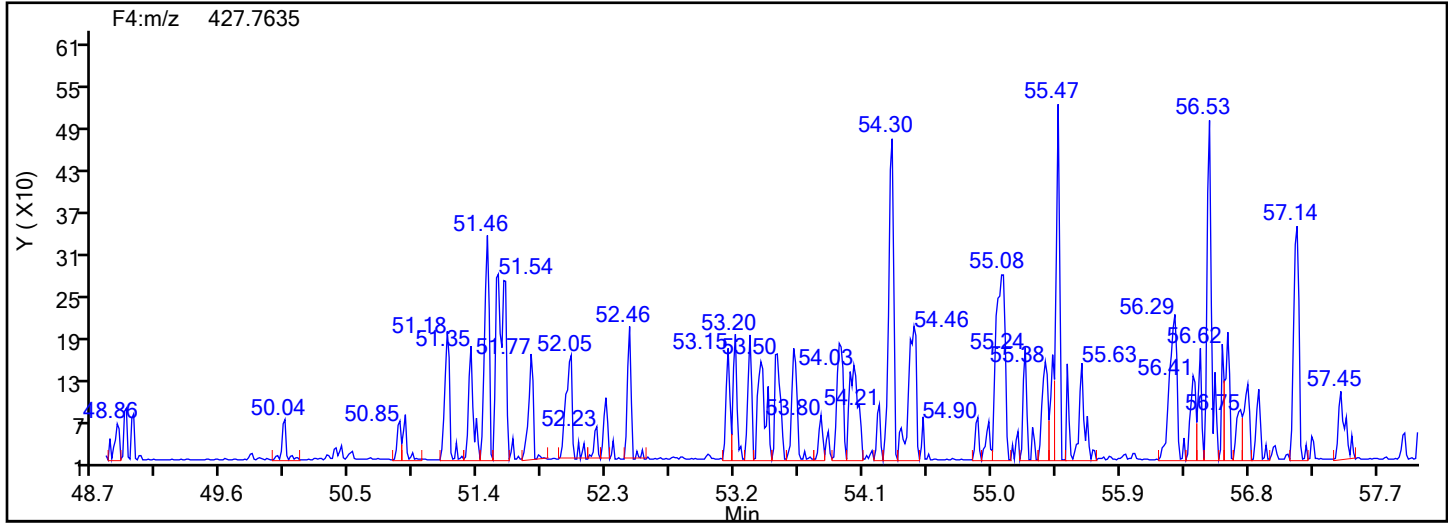


OcPCB F4 Standards

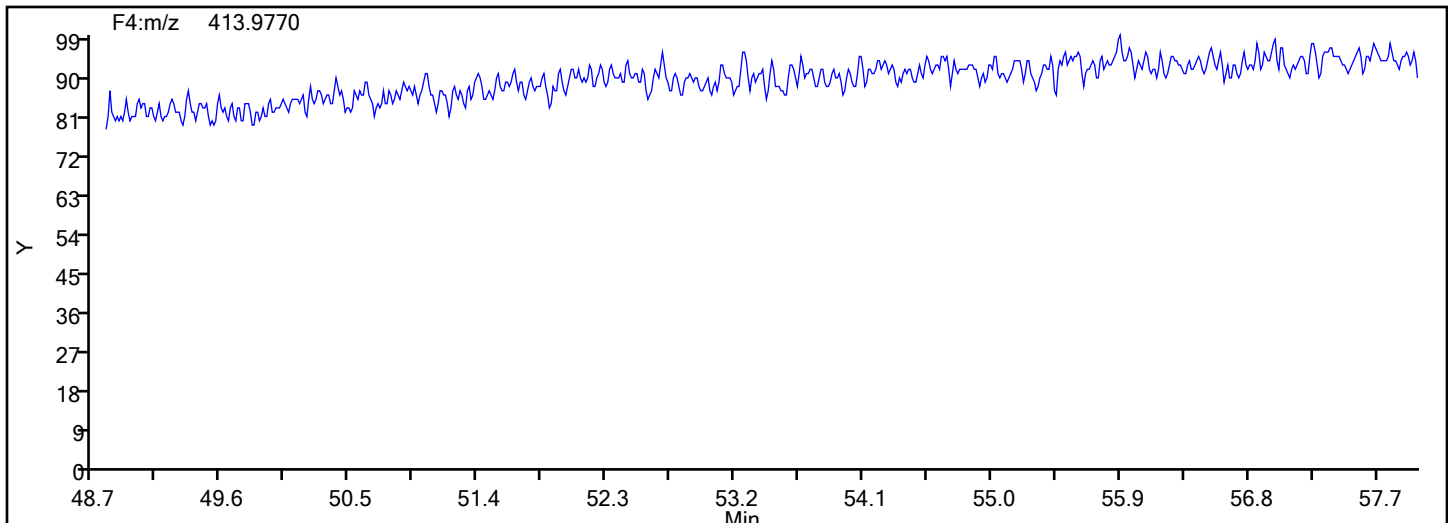


Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

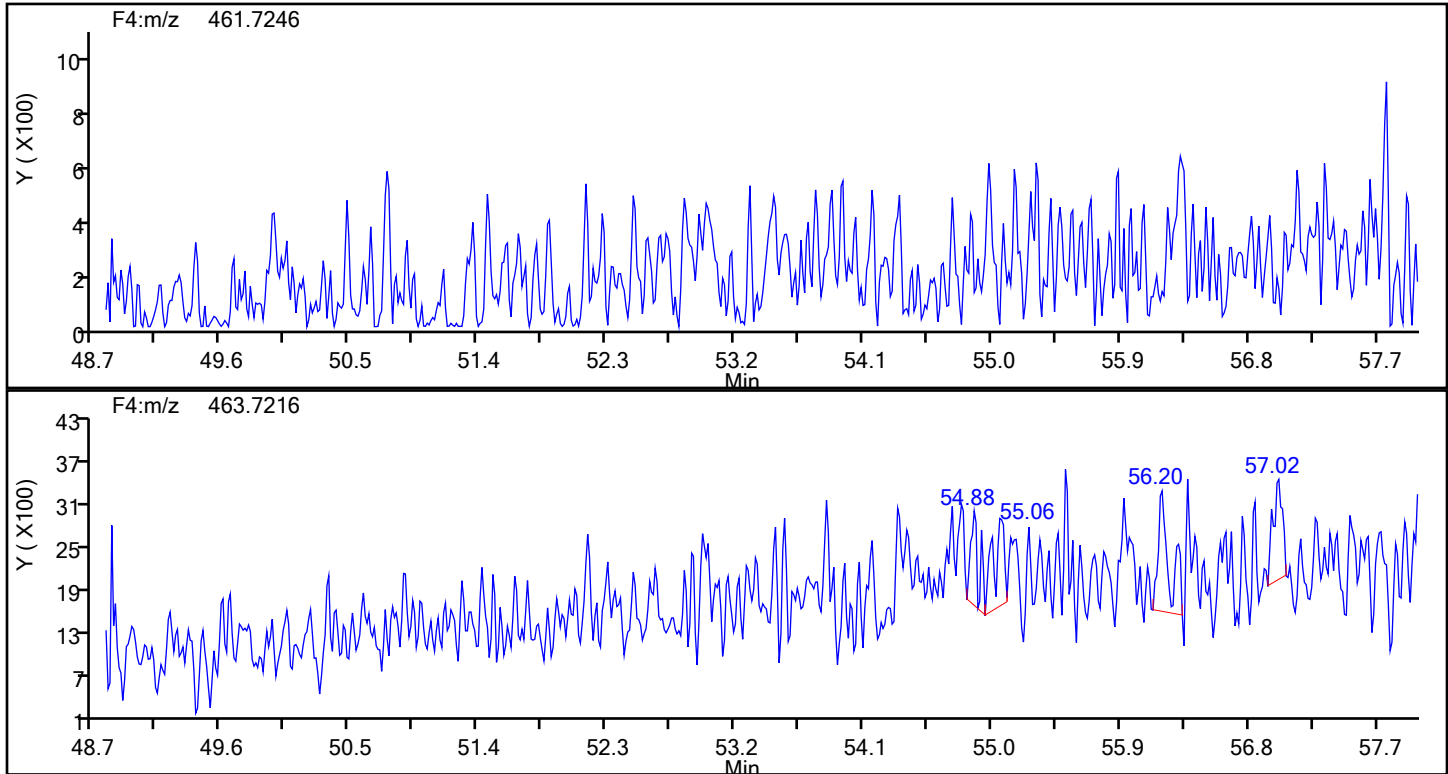


OcPCB F4 Lock Mass

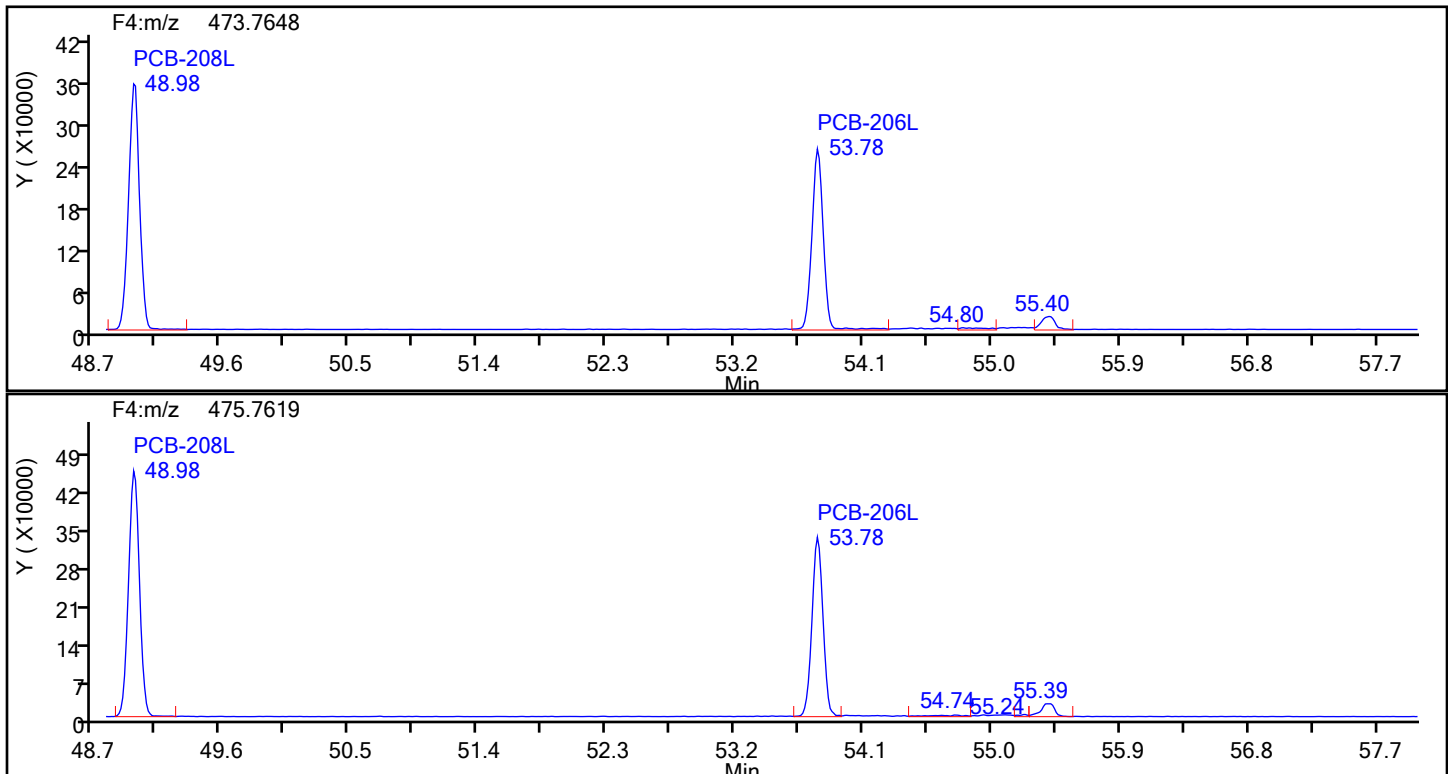


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

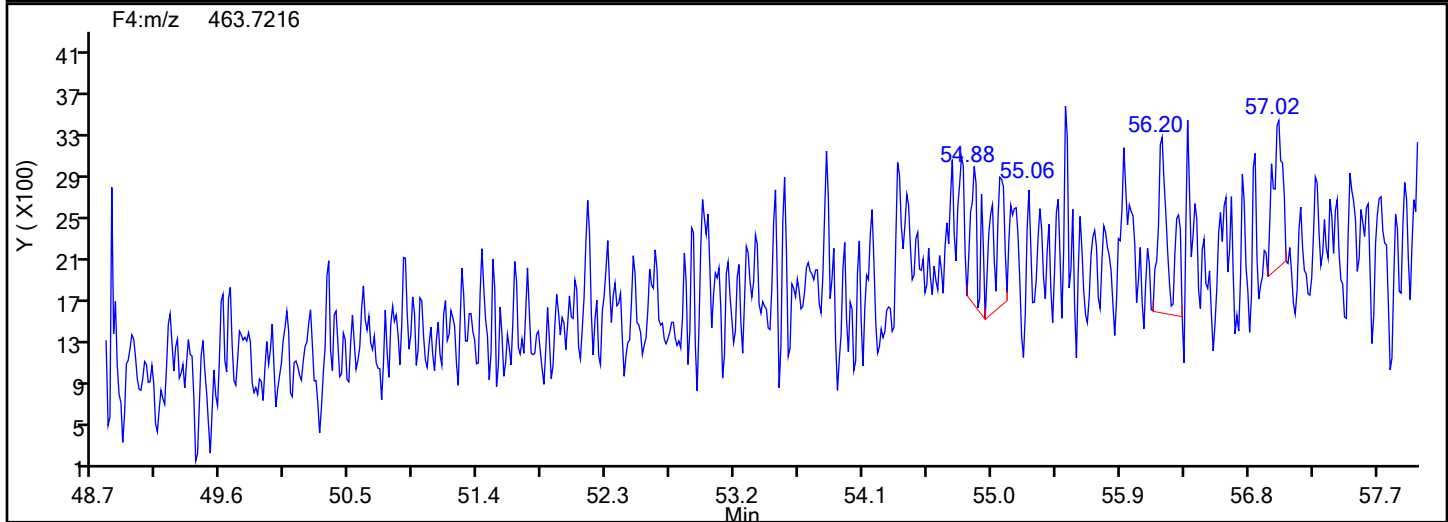
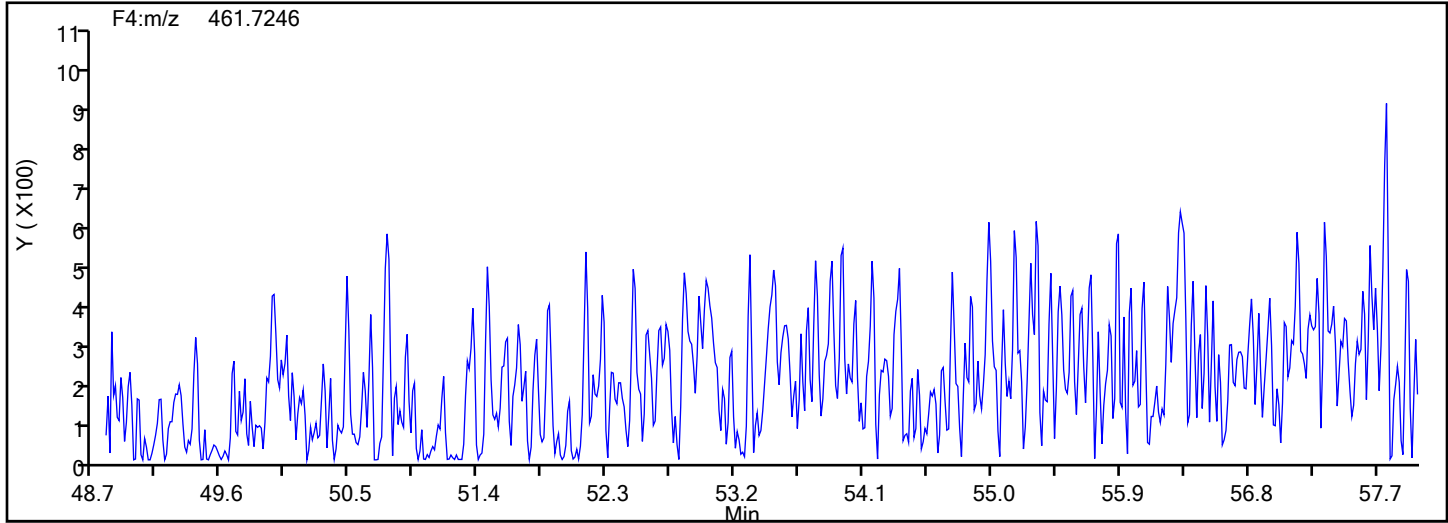


NoPCB F4 Standards

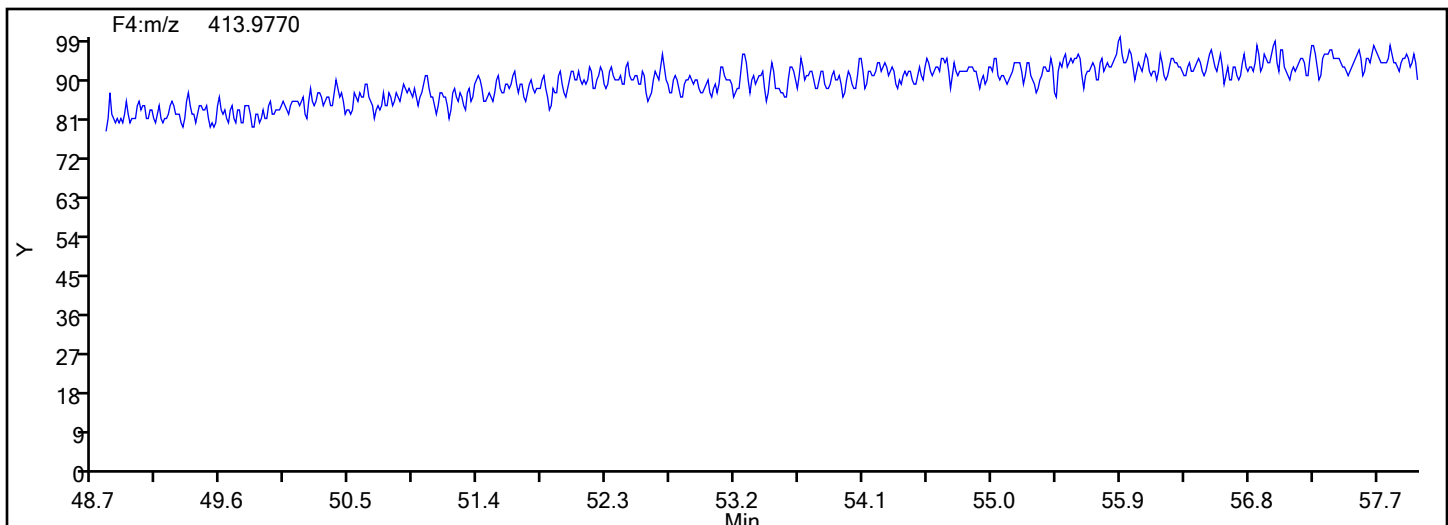


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

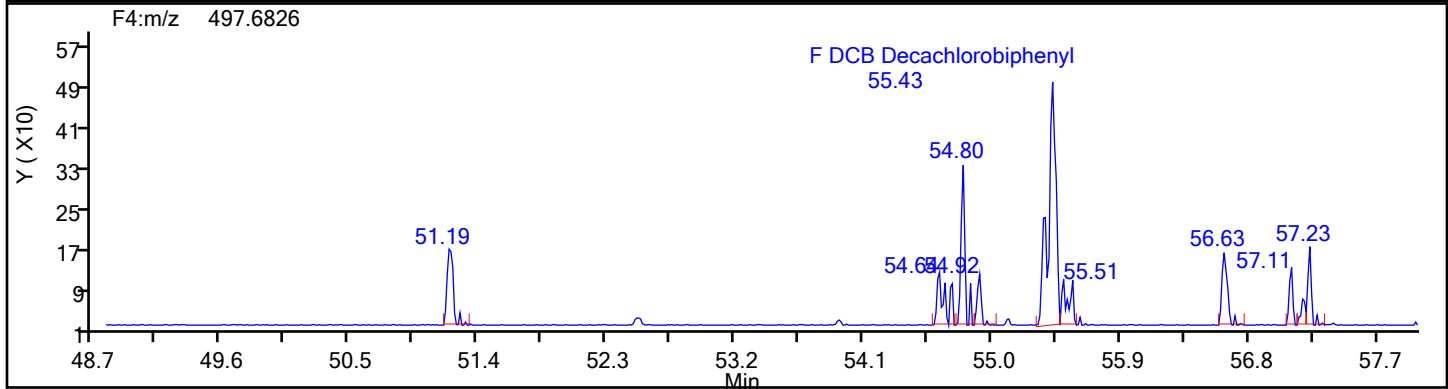
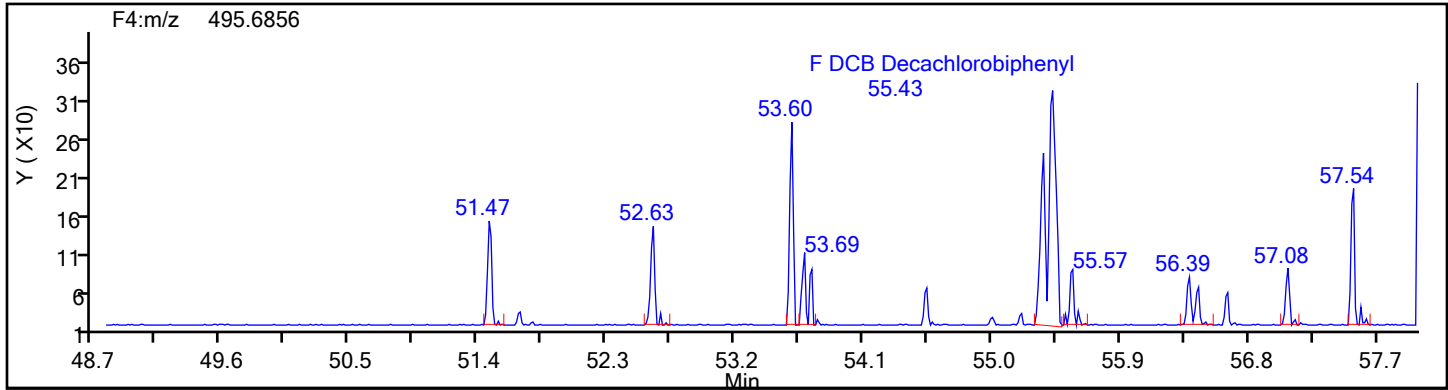


NoPCB F4 Lock Mass

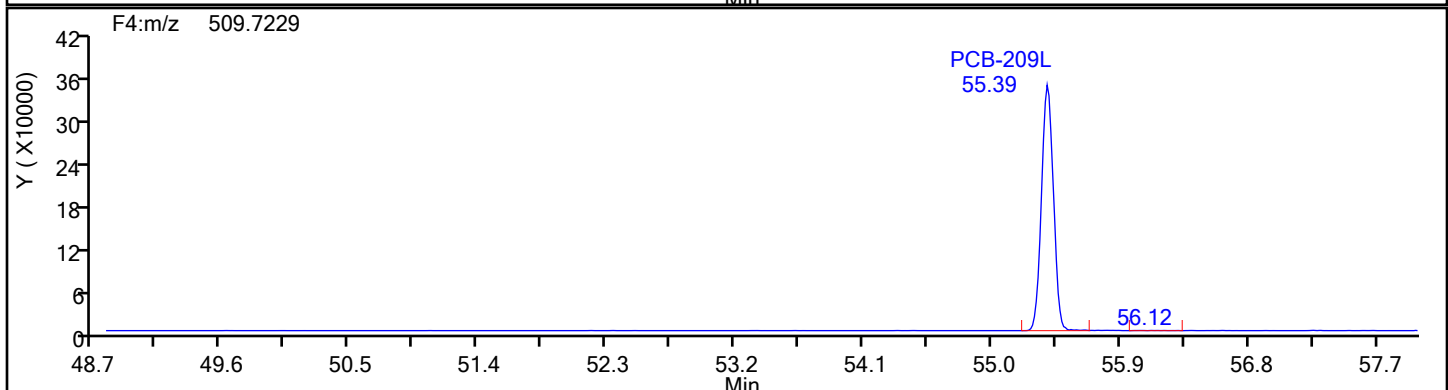
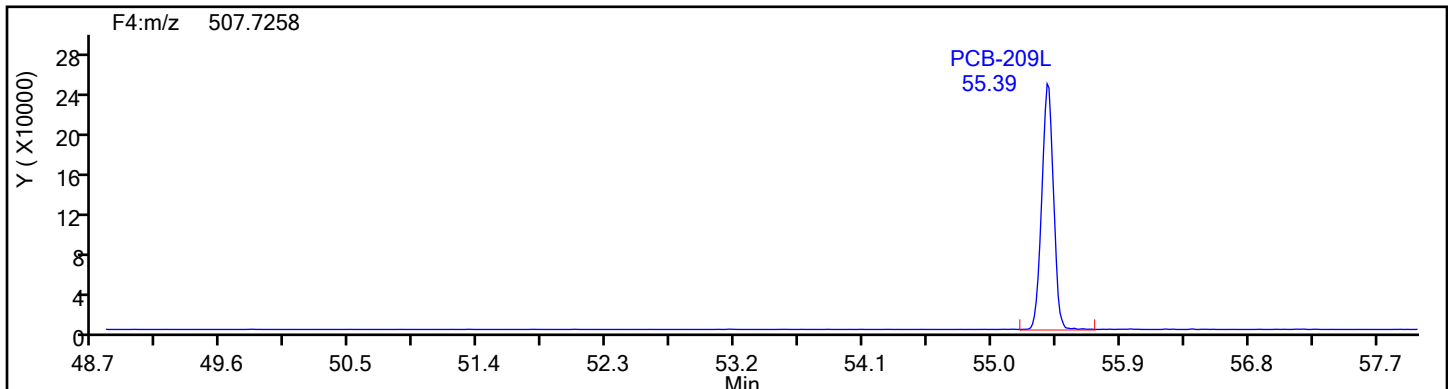


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

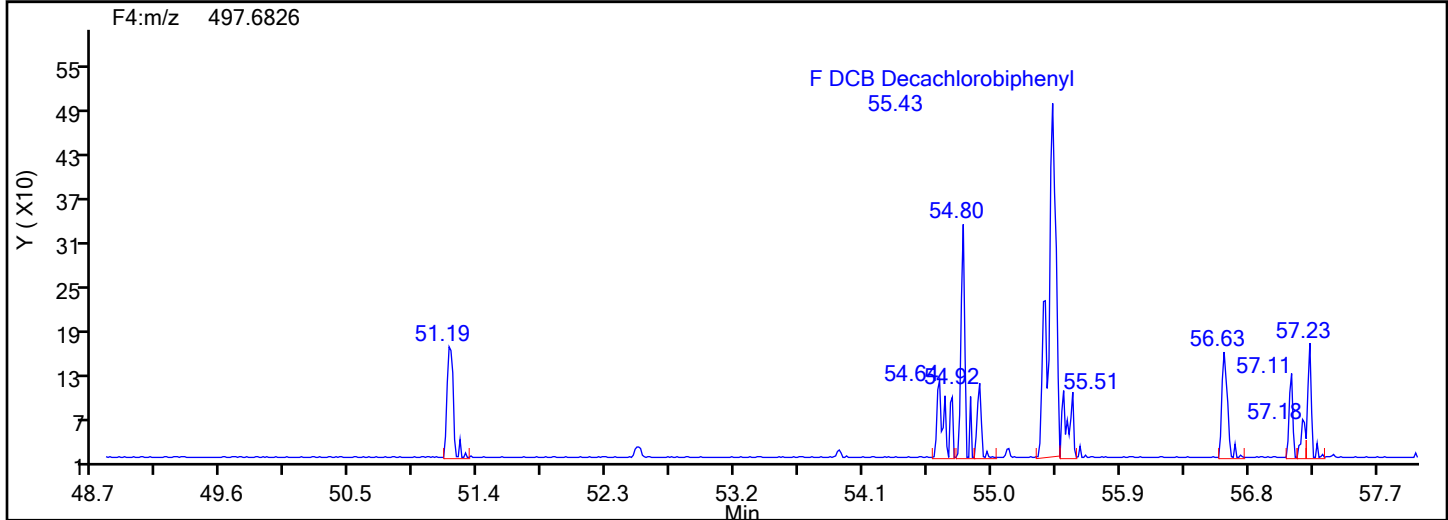
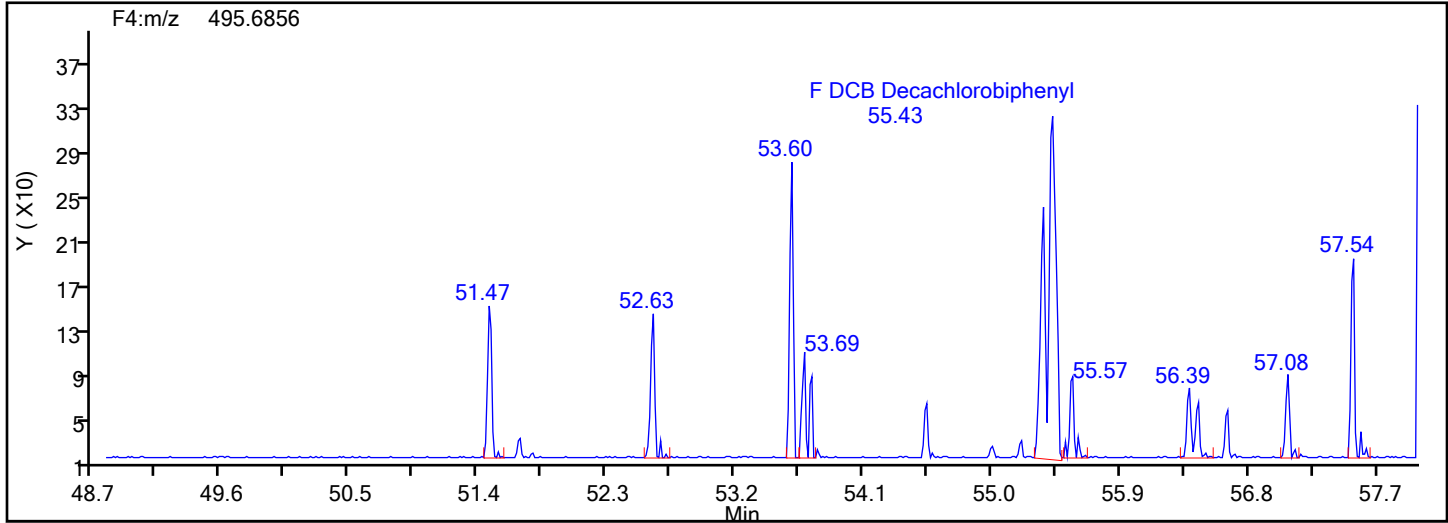


DePCB F4 Standards

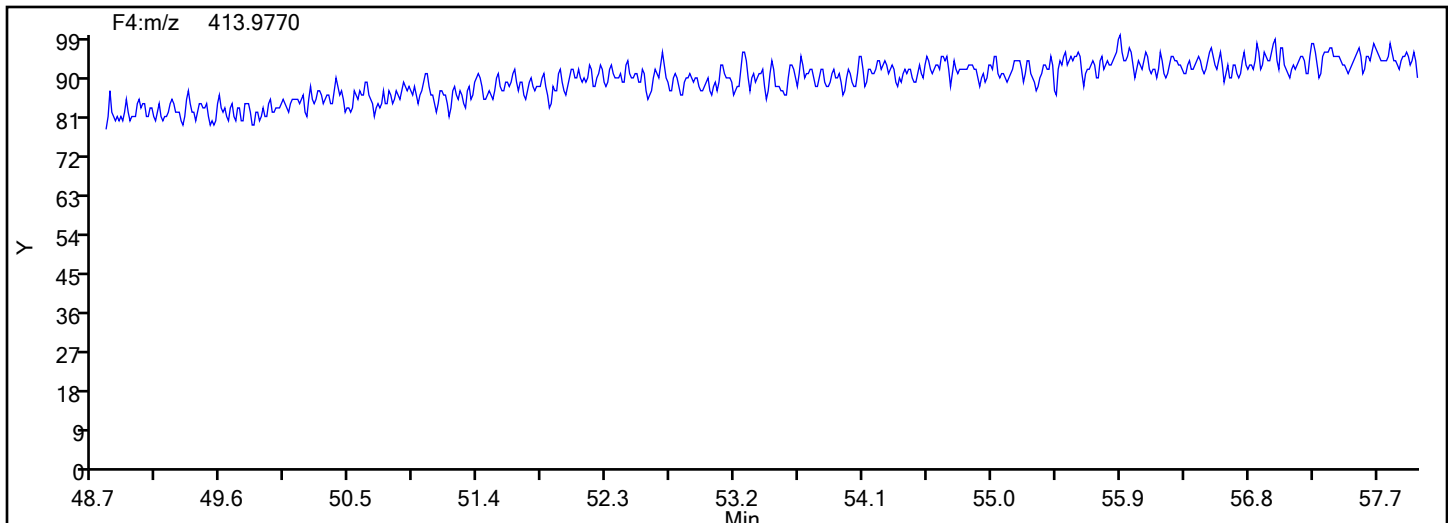


Eurofins Knoxville

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Injection Date: 11-Jun-2024 19:08:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Worklist#: 87502 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville

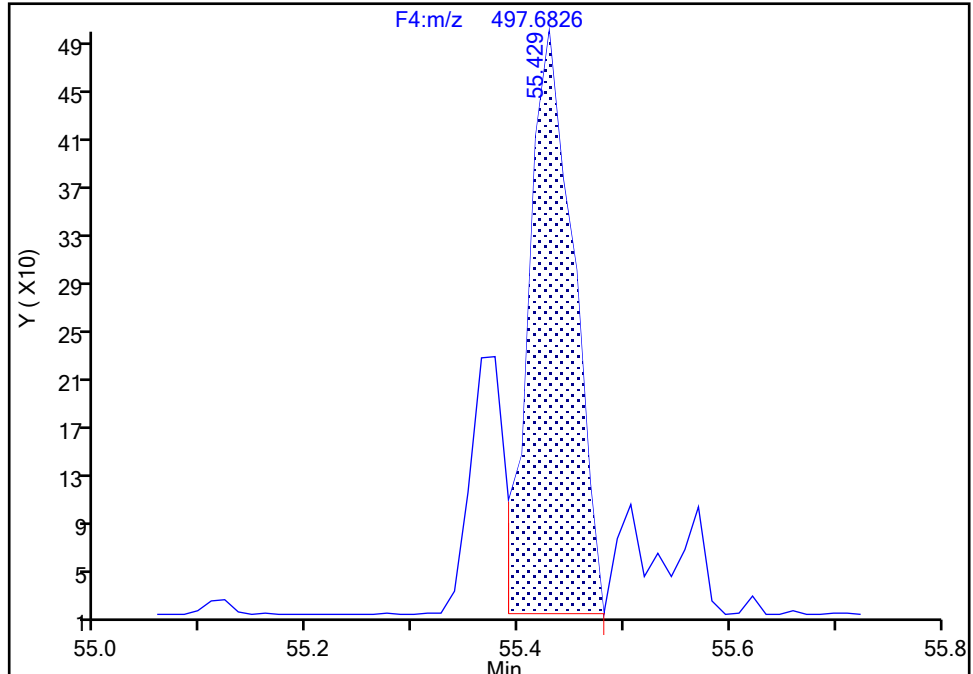
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

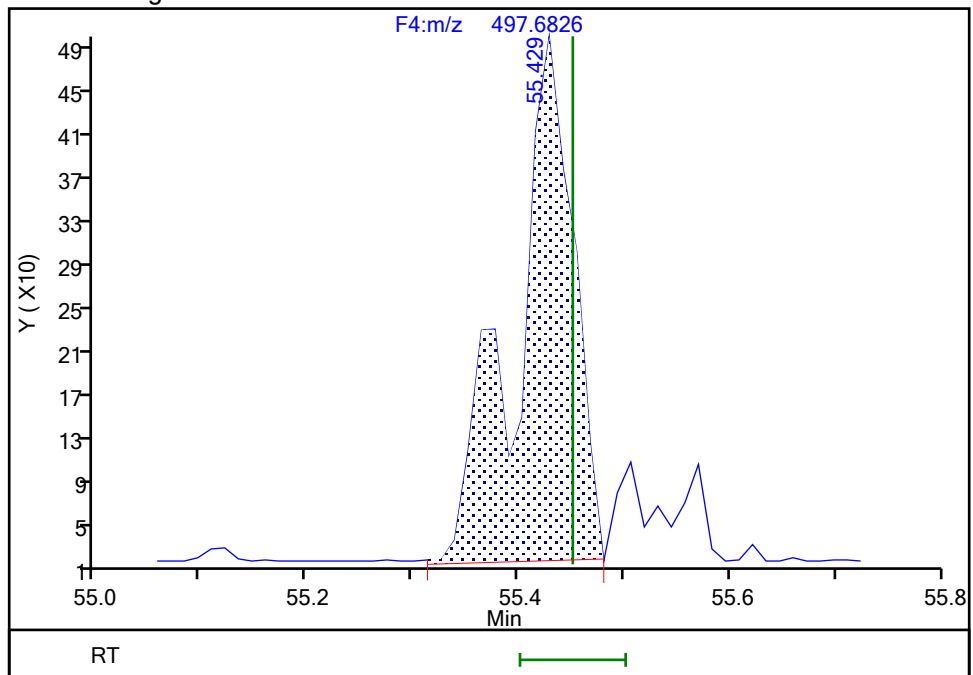
RT: 55.43
Area: 1387
Amount: 0.063114
Amount Units: pg/ul

Processing Integration Results



RT: 55.43
Area: 1843
Amount: 0.089849
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:33:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

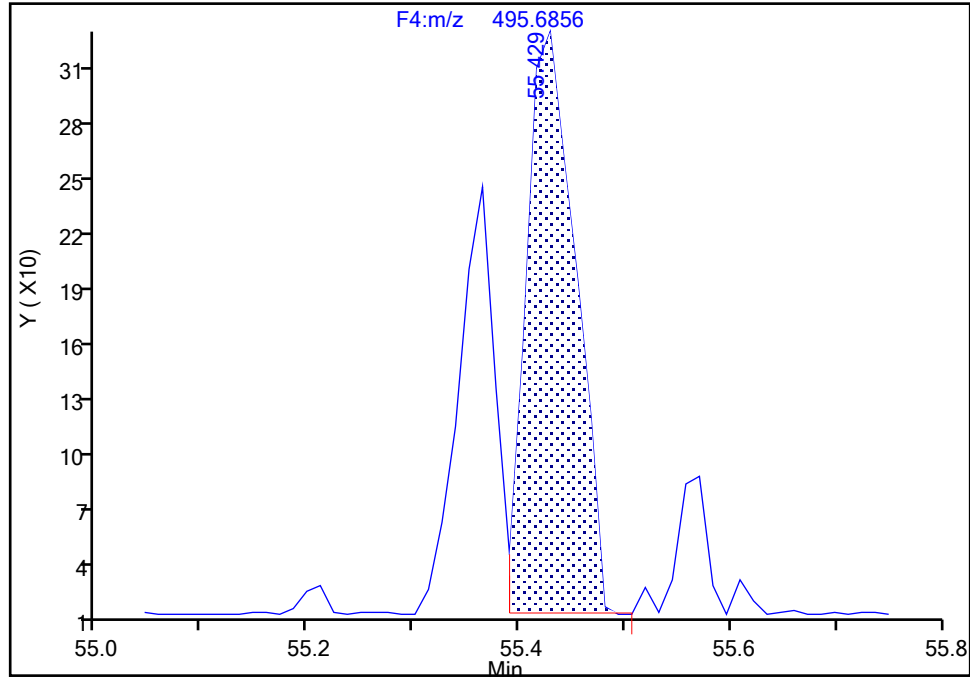
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Injection Date: 11-Jun-2024 19:08:00 Instrument ID: D2D
Lims ID: 140-36689-A-4-C Lab Sample ID: 140-36689-4
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

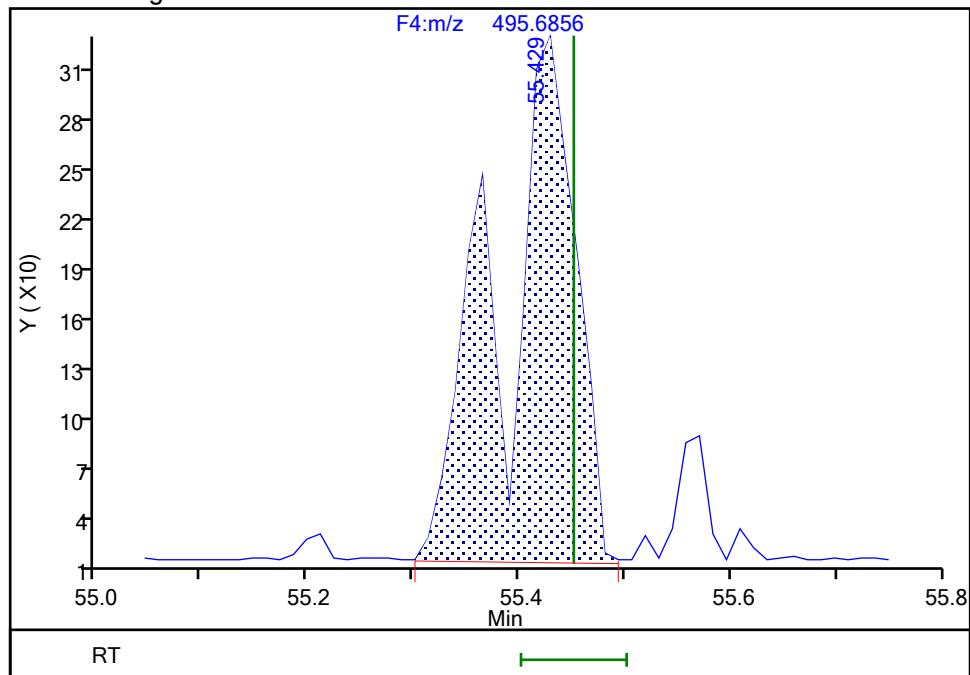
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Amount: 0.063114
Amount Units: pg/ul

Processing Integration Results



RT: 55.43
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Amount: 0.089849
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 20:33:26 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-0152202681
9/6/2024
2:43:26 PM

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-4-c.d
Lims ID: 140-36689-A-4-C
Client ID: M23-NO.3 BOILER-RUN 4 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 19:08:00 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-012
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 10:40:19 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 10:40:19

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	31.6	94.71
PCB-28L	100.0	78.0	77.98
PCB-79L	33.3	35.4	106.31
PCB-95L	33.3	36.0	108.02
PCB-111L	100.0	84.8	84.84
PCB-153L	33.3	33.8	101.28
PCB-178L	100.0	88.1	88.14

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 5 COMBINED</u>	Lab Sample ID: <u>140-36689-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-5-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/09/2024 15:20</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/11/2024 20:09</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.227	J S	0.600	0.132	0.0163
37680-65-2	PCB-18	ND	C	0.600	0.285	0.00357
7012-37-5	PCB-28	0.286	J q C20 B	0.600	0.252	0.0103
41464-39-5	PCB-44	2.50	C	0.900	0.390	0.0147
35693-99-3	PCB-52	0.206	J	0.300	0.132	0.0155
32598-10-0	PCB-66	0.0934	J q	0.300	0.120	0.0114
32598-13-3	PCB-77	ND		0.300	0.126	0.0129
70362-50-4	PCB-81	ND		0.300	0.0960	0.0135
37680-73-2	PCB-101	0.0660	J q C90	0.900	0.390	0.00280
32598-14-4	PCB-105	ND		0.300	0.102	0.0148
74472-37-0	PCB-114	ND		0.300	0.165	0.0155
31508-00-6	PCB-118	0.0323	J B	0.300	0.183	0.0134
65510-44-3	PCB-123	ND		0.300	0.171	0.0160
57465-28-8	PCB-126	ND		0.300	0.123	0.0169
38380-07-3	PCB-128	ND	C	0.600	0.204	0.00320
35065-28-2	PCB-138	0.0316	J q C129	1.20	0.510	0.00333
35065-27-1	PCB-153	0.0328	J C B	0.600	0.249	0.00288
38380-08-4	PCB-156	0.00520	J q C	0.600	0.255	0.00351
69782-90-7	PCB-157	0.00520	J q C156	0.600	0.255	0.00351
52663-72-6	PCB-167	0.00421	J q	0.300	0.180	0.00237
32774-16-6	PCB-169	ND		0.300	0.123	0.00227
35065-30-6	PCB-170	ND		0.300	0.132	0.000225
35065-29-3	PCB-180	0.0149	J q C	0.600	0.204	0.000171
52663-68-0	PCB-187	0.0136	J q	0.300	0.126	0.000181
39635-31-9	PCB-189	ND		0.300	0.147	0.00219
52663-78-2	PCB-195	ND		0.300	0.159	0.00268
40186-72-9	PCB-206	ND		0.300	0.171	0.0494
2051-24-3	PCB-209	0.00332	J B	0.300	0.138	0.000695

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 5 COMBINED</u>	Lab Sample ID: <u>140-36689-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-5-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/09/2024 15:20</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/11/2024 20:09</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	52		20-145
208263-77-8	PCB-3L	57		20-145
234432-86-1	PCB-4L	63		20-145
208263-67-6	PCB-15L	33	S	20-145
234432-87-2	PCB-19L	65	S	20-145
208263-79-0	PCB-37L	73		20-145
234432-88-3	PCB-54L	66	S	20-145
105600-23-5	PCB-77L	74		20-145
208461-24-9	PCB-81L	75		20-145
234432-89-4	PCB-104L	90		20-145
208263-62-1	PCB-105L	90		20-145
208263-63-2	PCB-114L	90		20-145
104130-40-7	PCB-118L	89		20-145
208263-64-3	PCB-123L	89		20-145
208263-65-4	PCB-126L	89		20-145
234432-90-7	PCB-155L	90		20-145
208263-68-7	PCB-156L	87	C	20-145
235416-30-5	PCB-157L	87	C156	20-145
208263-69-8	PCB-167L	83		20-145
208263-70-1	PCB-169L	85		20-145
160901-80-4	PCB-170L	89		20-145
234432-91-8	PCB-188L	91		20-145
208263-73-4	PCB-189L	85		20-145
105600-26-8	PCB-202L	91		20-145
234446-64-1	PCB-205L	89		20-145
208263-75-6	PCB-206L	99		20-145
234432-92-9	PCB-208L	99		20-145
105600-27-9	PCB-209L	110		20-145

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Client Sample ID: M23-NO.3 BOILER-RUN 5 Lab Sample ID: 140-36689-5
COMBINED
Matrix: Air Lab File ID: 140-36689-a-5-c.d
Analysis Method: 23 Date Collected: 05/09/2024 15:20
Extract. Method: Combined Prep Date Extracted: 05/31/2024 12:09
Sample wt/vol: 1(Sample) Date Analyzed: 06/11/2024 20:09
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 87502 Units: ng/Sample
Preparation Batch No.: 87206 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	77		20-130
235416-29-2	PCB-111L	84		20-130
232919-67-4	PCB-178L	89		20-130
STL01600	PCB-8L	83	S	70-130
STL01603	PCB-79L	104		70-130
STL01604	PCB-95L	106		70-130
STL01606	PCB-153L	100		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Lims ID: 140-36689-A-5-C
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 20:09:00 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-013
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 10:54:42 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 10:55:13

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					2.332	2.288	0.0462	0.0462		RQ
D PCB-1L	11:32	5921993	3.00	1.6108	52.3	52.3	0.5123	0.5123	52.32	
D PCB-3L	13:41	6418419	3.10	1.5891	57.5	57.5	0.5193	0.5193	57.48	
PCB-1	11:33	43144	2.88	1.2191	0.5976	0.5976	0.0435	0.0435		M
PCB-2	13:31	57557	3.13	1.1805	0.8334	0.7902	0.0471	0.0471		RQ
PCB-3	13:42	70555	2.90	1.2206	0.9006	0.9006	0.0479	0.0479		M
S Total Dichlorobiphenyls					22.6	22.4	0.0636	0.0636		RQ
D PCB-4L	13:56	2850992	1.64	0.6475	62.7	62.7	0.2556	0.2556	62.66	
* PCB-9L	15:57	7026752	1.64		100.0	100.0				
\$ PCB-8L	16:50	897215	1.54	1.2066	27.8	27.8	0.2705	0.2705	83.30	a
D PCB-15L	20:06	2505044	1.61	1.0789	33.0	33.0	0.1534	0.1534	33.04	a
PCB-4	13:58	6279	1.56	1.2818	0.2322	0.1718	0.0533	0.0533		RQM
PCB-10	14:10						0.0656	0.0656		
PCB-9	15:57	6612	1.56	1.4224	0.2167	0.1736	0.0607	0.0607		RQ
PCB-7	16:07	14888	1.56	1.4134	0.4714	0.3933	0.0611	0.0611		RQa
PCB-6	16:24	19900	1.59	1.5421	0.4819	0.4819	0.0560	0.0560		a
PCB-5	16:52						0.0644	0.0644		RQMU
PCB-8	16:52	32231	1.60	1.5889	0.7575	0.7575	0.0543	0.0543		M
PCB-14	18:24						0.0615	0.0615		
PCB-11	19:30	695339	1.63	1.2951	20.0	20.0	0.0666	0.0666		Ma
PCB-12	19:30						0.0646	0.0646		MU
PCB-13 (C12)	19:30						0.0646	0.0646		MU
PCB-15	20:06	13156	1.79	1.2903	0.4070	0.4070	0.0908	0.0908		a
S Total Trichlorobiphenyls					4.867	4.070	0.0279	0.0279		RQ
D PCB-19L	17:09	1550640	1.04	0.6285	64.6	64.6	0.6053	0.6053	64.57	
* PCB-32L	20:31	3820426	1.10		100.0	100.0				
* PCB-31L	22:39	13129174	1.06		100.0	100.0				
\$ PCB-28L	22:56	10631619	1.05	1.0494	77.2	77.2	0.1518	0.1518	77.17	
D PCB-37L	26:52	8379718	1.02	0.8749	72.9	72.9	0.1820	0.1820	72.95	
PCB-19	17:09	227	1.04	1.2809	0.0695	0.0114	0.0164	0.0164		RQM
PCB-18	18:55						0.0119	0.0119		
PCB-30 (C18)	18:55						0.0119	0.0119		
PCB-17	19:21						0.0169	0.0169		
PCB-27	19:36	7306	0.99	1.8327	0.2571	0.2571	0.0115	0.0115		M

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:50						0.0125	0.0125		RQMU
PCB-16	19:50	900	1.04	1.1286	0.1553	0.0514	0.0186	0.0186		RQM
PCB-32	20:31	5768	1.04	1.8324	0.2585	0.2030	0.0115	0.0115		RQa
PCB-34	21:35						0.0356	0.0356		
PCB-23	21:43						0.0371	0.0371		
PCB-26	22:09	21769	1.04	1.1255	0.2683	0.2308	0.0357	0.0357		RQ
PCB-29 (C26)	22:09	21769	1.04	1.1255	0.2683	0.2308	0.0357	0.0357		RQ
PCB-25	22:22	13116	1.04	1.2728	0.1658	0.1230	0.0316	0.0316		RQM
PCB-31	22:41	81687	0.91	1.1532	0.8453	0.8453	0.0348	0.0348		M
PCB-20	22:57	93598	1.04	1.1718	1.059	0.9532	0.0343	0.0343		RQMa
PCB-28 (C20)	22:57	93598	1.04	1.1718	1.059	0.9532	0.0343	0.0343		RQMa
PCB-21	23:12	56298	1.04	1.0746	0.8361	0.6252	0.0374	0.0374		RQM
PCB-33 (C21)	23:12	56298	1.04	1.0746	0.8361	0.6252	0.0374	0.0374		RQM
PCB-22	23:34	33210	1.04	1.1932	0.4755	0.3321	0.0337	0.0337		RQM
PCB-36	25:04						0.0363	0.0363		
PCB-39	25:25						0.0347	0.0347		
PCB-38	26:00						0.0370	0.0370		
PCB-35	26:29	22492	1.04	1.1297	0.2771	0.2376	0.0356	0.0356		RQ
PCB-37	26:54	19190	0.98	1.1435	0.2003	0.2003	0.0351	0.0351		M
S Total Tetrachlorobiphenyls					15.4	15.1	0.0433	0.0433		RQ
D PCB-54L	20:23	1407119	0.81	0.5562	66.2	66.2	0.1040	0.1040	66.22	a
* PCB-52L	24:43	6671538	0.79		100.0	100.0				
\$ PCB-79L	32:34	2210017	0.79	1.0018	34.6	34.6	0.2764	0.2764	104	
D PCB-81L	33:33	6214155	0.83	1.2470	74.7	74.7	0.1876	0.1876	74.70	
D PCB-77L	34:07	6554387	0.80	1.3212	74.4	74.4	0.1770	0.1770	74.36	
PCB-54	20:10						0.004910	0.004910		
PCB-50	22:19						0.0555	0.0555		
PCB-53 (C50)	22:19						0.0555	0.0555		
PCB-45	23:08	131962	0.79	0.8264	2.501	2.501	0.0576	0.0576		a
PCB-51 (C45)	23:08	131962	0.79	0.8264	2.501	2.501	0.0576	0.0576		a
PCB-46	23:18						0.0671	0.0671		
PCB-52	24:44	40317	0.87	0.9194	0.6868	0.6868	0.0518	0.0518		
PCB-43	24:51						0.0461	0.0461		
PCB-73 (C43)	24:51						0.0461	0.0461		
PCB-49	25:13	21286	0.77	1.0685	0.3924	0.3120	0.0446	0.0446		RQM
PCB-69 (C49)	25:13	21286	0.77	1.0685	0.3924	0.3120	0.0446	0.0446		RQM
PCB-48	25:30	7960	0.77	0.8399	0.1944	0.1485	0.0567	0.0567		RQM
PCB-44	25:46	516796	0.80	0.9731	8.319	8.319	0.0489	0.0489		M
PCB-47 (C44)	25:46	516796	0.80	0.9731	8.319	8.319	0.0489	0.0489		M
PCB-65 (C44)	25:46	516796	0.80	0.9731	8.319	8.319	0.0489	0.0489		M
PCB-59	26:04	9105	0.77	1.1853	0.1368	0.1203	0.0402	0.0402		RQM
PCB-62 (C59)	26:04	9105	0.77	1.1853	0.1368	0.1203	0.0402	0.0402		RQM
PCB-75 (C59)	26:04	9105	0.77	1.1853	0.1368	0.1203	0.0402	0.0402		RQM
PCB-42	26:15	10206	0.79	0.8097	0.1974	0.1974	0.0588	0.0588		M
PCB-40	26:44	13086	0.77	0.8863	0.3304	0.2313	0.0537	0.0537		RQM
PCB-41 (C40)	26:44	13086	0.77	0.8863	0.3304	0.2313	0.0537	0.0537		RQM
PCB-71 (C40)	26:44	13086	0.77	0.8863	0.3304	0.2313	0.0537	0.0537		RQM
PCB-64	26:56	15543	0.77	1.1776	0.2680	0.2067	0.0404	0.0404		RQM
PCB-72	27:46						0.0435	0.0435		
PCB-68	28:04	108788	0.83	1.2533	1.360	1.360	0.0380	0.0380		M
PCB-57	28:28						0.0440	0.0440		
PCB-58	28:42						0.0359	0.0359		
PCB-67	28:52						0.0335	0.0335		
PCB-63	29:08						0.0424	0.0424		
PCB-61	29:28	42704	0.81	1.2612	0.5303	0.5303	0.0378	0.0378		
PCB-70 (C61)	29:28	42704	0.81	1.2612	0.5303	0.5303	0.0378	0.0378		
PCB-74 (C61)	29:28	42704	0.81	1.2612	0.5303	0.5303	0.0378	0.0378		
PCB-76 (C61)	29:28	42704	0.81	1.2612	0.5303	0.5303	0.0378	0.0378		
PCB-66	29:49	25021	0.77	1.2583	0.3611	0.3115	0.0379	0.0379		RQM
PCB-55	29:58						0.0360	0.0360		
PCB-56	30:27	13035	0.72	1.2334	0.1655	0.1655	0.0386	0.0386		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:41						0.0424	0.0424		
PCB-80	31:05						0.0360	0.0360		
PCB-79	32:36						0.0331	0.0331		
PCB-78	33:09						0.0410	0.0410		
PCB-81	33:36						0.0451	0.0451		
PCB-77	34:10						0.0430	0.0430		
S Total Pentachlorobiphenyls					1.449	1.260	0.0231	0.0231		RQ
D PCB-104L	25:39	4785594	1.60	1.2161	89.9	89.9	0.0443	0.0443	89.93	
\$ PCB-95L	28:35	1218330	1.60	0.7218	35.3	35.3	0.0651	0.0651	106	
* PCB-101L	31:30	4376030	1.60		100.0	100.0				
\$ PCB-111L	34:10	5008068	1.59	1.3699	83.5	83.5	0.0393	0.0393	83.54	
D PCB-123L	36:07	6089437	1.56	0.9731	88.6	88.6	1.046	1.046	88.59	
D PCB-118L	36:26	6378148	1.58	1.0102	89.4	89.4	1.007	1.007	89.39	
D PCB-114L	36:57	6306261	1.58	0.9949	89.7	89.7	1.023	1.023	89.74	
D PCB-105L	37:36	6044627	1.60	0.9514	89.9	89.9	1.070	1.070	89.95	
* PCB-127L	39:04	7063383	1.59		100.0	100.0				
D PCB-126L	40:41	5956352	1.62	0.9439	89.3	89.3	1.078	1.078	89.34	
PCB-104	25:38						0.008843	0.008843		
PCB-96	26:01						0.008153	0.008153		
PCB-103	27:56						0.0102	0.0102		
PCB-94	28:10						0.0117	0.0117		
PCB-95	28:34	8840	1.41	0.8033	0.2300	0.2300	0.0111	0.0111		M
PCB-93	28:49						0.0106	0.0106		
PCB-100 (C93)	28:49						0.0106	0.0106		
PCB-98	28:57	1215	1.55	0.8262	0.0384	0.0307	0.0108	0.0108		RQM
PCB-102 (C98)	28:57	1215	1.55	0.8262	0.0384	0.0307	0.0108	0.0108		RQM
PCB-88	29:26	1743	1.55	0.8013	0.0710	0.0455	0.0111	0.0111		RQ
PCB-91 (C88)	29:26	1743	1.55	0.8013	0.0710	0.0455	0.0111	0.0111		RQ
PCB-84	29:42	800	1.55	0.7299	0.0472	0.0229	0.0122	0.0122		RQ
PCB-89	30:10						0.0114	0.0114		
PCB-121	30:34						0.006880	0.006880		
PCB-92	30:56	729	1.55	0.8546	0.0424	0.0178	0.0104	0.0104		RQM
PCB-90	31:31	10048	1.55	0.9550	0.2462	0.2199	0.009340	0.009340		RQ
PCB-101 (C90)	31:31	10048	1.55	0.9550	0.2462	0.2199	0.009340	0.009340		RQ
PCB-113 (C90)	31:31	10048	1.55	0.9550	0.2462	0.2199	0.009340	0.009340		RQ
PCB-83	32:08	4148	1.55	0.8385	0.1473	0.1034	0.0106	0.0106		RQ
PCB-99 (C83)	32:08	4148	1.55	0.8385	0.1473	0.1034	0.0106	0.0106		RQ
PCB-112	32:13						0.006321	0.006321		
PCB-86	32:41	10033	1.37	1.0473	0.2002	0.2002	0.008517	0.008517		M
PCB-87 (C86)	32:41	10033	1.37	1.0473	0.2002	0.2002	0.008517	0.008517		M
PCB-97 (C86)	32:41	10033	1.37	1.0473	0.2002	0.2002	0.008517	0.008517		M
PCB-109 (C86)	32:41	10033	1.37	1.0473	0.2002	0.2002	0.008517	0.008517		M
PCB-119 (C86)	32:41	10033	1.37	1.0473	0.2002	0.2002	0.008517	0.008517		M
PCB-125 (C86)	32:41	10033	1.37	1.0473	0.2002	0.2002	0.008517	0.008517		M
PCB-85	33:17	428	1.55	1.0408	0.0357	0.008593	0.008570	0.008570		RQ
PCB-116 (C85)	33:17	428	1.55	1.0408	0.0357	0.008593	0.008570	0.008570		RQ
PCB-117 (C85)	33:17	428	1.55	1.0408	0.0357	0.008593	0.008570	0.008570		RQ
PCB-110	33:28	14527	1.52	1.1919	0.2547	0.2547	0.007484	0.007484		M
PCB-115 (C110)	33:28	14527	1.52	1.1919	0.2547	0.2547	0.007484	0.007484		M
PCB-82	33:47	724	1.55	0.8303	0.0287	0.0182	0.0107	0.0107		RQa
PCB-111	34:13						0.007356	0.007356		
PCB-120	34:41						0.006042	0.006042		
PCB-108	35:49						0.0504	0.0504		
PCB-124 (C108)	35:49						0.0504	0.0504		
PCB-107	36:03						0.0475	0.0475		
PCB-123	36:10						0.0534	0.0534		
PCB-106	36:17						0.0531	0.0531		
PCB-118	36:27	8282	1.76	1.2055	0.1077	0.1077	0.0448	0.0448		M
PCB-122	36:50						0.0601	0.0601		
PCB-114	37:01						0.0518	0.0518		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:40						0.0495	0.0495		
PCB-127	39:09						0.0505	0.0505		
PCB-126	40:45						0.0565	0.0565		
S Total Hexachlorobiphenyls					0.5776	0.4223	0.008706	0.008706		RQ
D PCB-155L	31:16	4274851	1.27	1.0851	90.0	90.0	0.0419	0.0419	90.02	
\$ PCB-153L	38:19	1634481	1.28	0.9169	33.2	33.2	0.5031	0.5031	99.73	
* PCB-138L	39:33	5086262	1.27		100.0	100.0				
D PCB-167L	42:33	5336851	1.28	1.2572	83.5	83.5	0.3209	0.3209	83.46	
D PCB-156L	43:41	10742820	1.27	1.2106	174.5	174.5	0.3333	0.3333	87.23	
D PCB-157L (C156L)	43:41	10742820	1.27	1.2106	174.5	174.5	0.3333	0.3333	87.23	
D PCB-169L	46:55	5368334	1.28	1.2439	84.9	84.9	0.3244	0.3244	84.85	
PCB-155	31:18						0.002408	0.002408		
PCB-152	31:30						0.002298	0.002298		
PCB-150	31:40						0.002244	0.002244		
PCB-136	32:02						0.002248	0.002248		
PCB-145	32:20						0.002348	0.002348		
PCB-148	33:50						0.002991	0.002991		
PCB-135	34:27	369	1.24	0.7256	0.0575	0.0119	0.003134	0.003134		RQ
PCB-151 (C135)	34:27	369	1.24	0.7256	0.0575	0.0119	0.003134	0.003134		RQ
PCB-154	34:41						0.002797	0.002797		
PCB-144	34:59						0.002896	0.002896		
PCB-147	35:21	3621	1.24	0.8950	0.1154	0.0755	0.0117	0.0117		RQM
PCB-149 (C147)	35:21	3621	1.24	0.8950	0.1154	0.0755	0.0117	0.0117		RQM
PCB-134	35:39						0.0132	0.0132		
PCB-143 (C134)	35:39						0.0132	0.0132		
PCB-139	35:57						0.0120	0.0120		
PCB-140 (C139)	35:57						0.0120	0.0120		
PCB-131	36:09						0.0140	0.0140		
PCB-142	36:18						0.0140	0.0140		
PCB-132	36:35	2244	1.24	0.7489	0.0766	0.0559	0.0140	0.0140		RQM
PCB-133	37:07						0.0130	0.0130		
PCB-165	37:31						0.0102	0.0102		
PCB-146	37:45	1227	1.24	0.9637	0.0294	0.0237	0.0109	0.0109		RQM
PCB-161	37:54						0.009299	0.009299		
PCB-153	38:20	6408	1.08	1.0938	0.1093	0.1093	0.009597	0.009597		M
PCB-168 (C153)	38:20	6408	1.08	1.0938	0.1093	0.1093	0.009597	0.009597		M
PCB-141	38:34						0.0120	0.0120		
PCB-130	38:58						0.0149	0.0149		
PCB-137	39:10	304	1.24	0.7767	0.009773	0.007300	0.0135	0.0135		RQM
PCB-164	39:19						0.0101	0.0101		
PCB-129	39:35	5348	1.24	0.9464	0.1190	0.1054	0.0111	0.0111		RQM
PCB-138 (C129)	39:35	5348	1.24	0.9464	0.1190	0.1054	0.0111	0.0111		RQM
PCB-160 (C129)	39:35	5348	1.24	0.9464	0.1190	0.1054	0.0111	0.0111		RQM
PCB-163 (C129)	39:35	5348	1.24	0.9464	0.1190	0.1054	0.0111	0.0111		RQM
PCB-158	40:00						0.008007	0.008007		
PCB-128	40:52	107	1.24	0.9829	0.008197	0.002030	0.0107	0.0107		RQ
PCB-166 (C128)	40:52	107	1.24	0.9829	0.008197	0.002030	0.0107	0.0107		RQ
PCB-159	41:51						0.007576	0.007576		
PCB-162	42:08						0.008350	0.008350		
PCB-167	42:33	835	1.24	1.1159	0.0272	0.0140	0.007893	0.007893		RQ
PCB-156	43:41	1033	1.24	1.1104	0.0253	0.0173	0.0117	0.0117		RQM
PCB-157 (C156)	43:41	1033	1.24	1.1104	0.0253	0.0173	0.0117	0.0117		RQM
PCB-169	46:59						0.007574	0.007574		
S Total Heptachlorobiphenyls					0.2188	0.1439	0.000930	0.000930		RQ
D PCB-188L	36:57	4809799	1.06	1.3133	90.5	90.5	0.0329	0.0329	90.52	
\$ PCB-178L	40:00	3701184	1.07	1.0313	88.7	88.7	0.0419	0.0419	88.70	
* PCB-180L	45:06	4045964	1.06		100.0	100.0				
D PCB-170L	46:21	3018549	1.06	0.8362	89.2	89.2	0.0516	0.0516	89.22	
D PCB-189L	49:27	6446032	1.05	1.4414	85.4	85.4	0.3850	0.3850	85.36	
PCB-188	37:01						0.000468	0.000468		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:20						0.000466	0.000466		RQU
PCB-184	37:53						0.000486	0.000486		
PCB-176	38:14						0.000539	0.000539		
PCB-186	38:42						0.000451	0.000451		
PCB-178	40:05						0.000743	0.000743		
PCB-175	40:42						0.000698	0.000698		
PCB-187	40:56	1955	1.05	1.1018	0.0511	0.0453	0.000604	0.000604		RQ
PCB-182	41:11						0.000719	0.000719		
PCB-183	41:31	1733	1.05	0.9825	0.0694	0.0451	0.000677	0.000677		RQM
PCB-185 (C183)	41:31	1733	1.05	0.9825	0.0694	0.0451	0.000677	0.000677		RQM
PCB-174	41:49						0.000690	0.000690		
PCB-177	42:16						0.000681	0.000681		
PCB-181	42:38						0.000700	0.000700		
PCB-171	42:52	86	1.05	0.9336	0.0238	0.002353	0.000712	0.000712		RQM
PCB-173 (C171)	42:52	86	1.05	0.9336	0.0238	0.002353	0.000712	0.000712		RQM
PCB-172	44:33	54	1.05	0.8519	0.0129	0.001619	0.000781	0.000781		RQM
PCB-192	44:46						0.000494	0.000494		
PCB-180	45:10	2263	1.05	1.1676	0.0617	0.0495	0.000570	0.000570		RQM
PCB-193 (C180)	45:10	2263	1.05	1.1676	0.0617	0.0495	0.000570	0.000570		RQM
PCB-191	45:30						0.000516	0.000516		
PCB-170	46:24						0.000749	0.000749		
PCB-190	46:56						0.000499	0.000499		
PCB-189	49:30						0.007290	0.007290		
S Total Octachlorobiphenyls					0.0807	0.0676	0.008671	0.008671		RQ
D PCB-202L	42:19	3596714	0.90	0.9818	90.5	90.5	0.0229	0.0229	90.54	
* PCB-194L	51:34	5239033	0.93		100.0	100.0				
D PCB-205L	52:01	5476132	0.91	1.1786	88.7	88.7	0.0744	0.0744	88.69	
PCB-202	42:23						0.008370	0.008370		
PCB-201	43:18						0.008889	0.008889		
PCB-204	43:58						0.008269	0.008269		
PCB-197	44:15	448	0.89	1.1458	0.0142	0.0109	0.007567	0.007567		RQMa
PCB-200	44:21	288	0.89	1.0072	0.0128	0.007950	0.008609	0.008609		RQM
PCB-198	47:05	588	0.89	0.8698	0.0237	0.0188	0.0100	0.0100		RQM
PCB-199 (C198)	47:05	588	0.89	0.8698	0.0237	0.0188	0.0100	0.0100		RQM
PCB-196	47:45						0.0111	0.0111		
PCB-203	47:57						0.009331	0.009331		
PCB-195	49:15						0.008922	0.008922		RQU
PCB-194	51:37	1598	0.88	0.9735	0.0300	0.0300	0.007573	0.007573		Ma
PCB-205	52:05						0.006777	0.006777		
S Total Nonachlorobiphenyls							0.1647	0.1647		
D PCB-208L	48:58	4960468	0.80	0.9576	98.9	98.9	0.2713	0.2713	98.88	
D PCB-206L	53:46	3590784	0.82	0.6947	98.7	98.7	0.3739	0.3739	98.66	
PCB-208	49:02						0.1348	0.1348		
PCB-207	49:58						0.1313	0.1313		
PCB-206	53:50						0.1647	0.1647		
D PCB-209L	55:23	3833134	0.73	0.6669	109.7	109.7	0.0678	0.0678	110	
DCB Decachlorobiphenyl	55:25	467	0.75	1.1004	0.0111	0.0111	0.002317	0.002317		M
S Polychlorinated biphenyls, Total					45.3	0.0111	0.0381	0.0381		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Lims ID: 140-36689-A-5-C
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 20:09:00 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-013
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 10:54:42 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 10:55:13

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:32	11:35	-2	0.724	4440700	1775956	945	2362	1879		
202.0766	11:32	11:35	-2	0.724	1481293	577606	3806	9515	152	3.00(2.66-3.60)	
PCB-3L											
200.0795	13:41	13:44	-2	0.858	4853801	1620643	945	2362	1715		
202.0766	13:41	13:44	-2	0.858	1564618	511899	3806	9515	134	3.10(2.66-3.60)	
PCB-1											
188.0393	11:33	11:33	-2	1.001	32026	12264	270	675	45		M
190.0363	11:33	11:33	-2	1.001	11118	4206	229	572	18	2.88(2.66-3.60)	M
PCB-2											
188.0393	13:31	13:32	-3	0.987	43621	14219	270	675	53		RQ
190.0363	13:31	13:32	-3	0.987	17085	5590	229	572	24	2.55(2.66-3.60)	
Empc Correction					13936	4542	229	572	20		
PCB-3											
188.0393	13:42	13:42	-2	1.001	52487	14983	270	675	55		M
190.0363	13:42	13:42	-2	1.001	18068	5394	229	572	24	2.90(2.66-3.60)	M
PCB-4L											
234.0406	13:56	14:00	-3	0.874	1771383	573989	660	1650	870		
236.0376	13:56	14:00	-3	0.874	1079609	348366	293	732	1189	1.64(1.33-1.79)	
PCB-9L											
234.0406	15:57	15:56	1		4363576	899294	660	1650	1363		
236.0376	15:57	15:56	1		2663176	539899	293	732	1843	1.64(1.33-1.79)	
PCB-8L											
234.0406	16:50	16:50	4	1.208	543839	78785	660	1650	119		a
236.0376	16:50	16:50	4	1.209	353376	53813	293	732	184	1.54(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											a
234.0406	20:06	20:06	16	1.261	1545680	333126	660	1650	505		a
236.0376	20:06	20:06	16	1.261	959364	204321	293	732	697	1.61(1.33-1.79)	
PCB-4											RQM
222.0003	13:58	13:58	-2	1.002	6033	2022	133	332	15		M
	Empc Correction				3826	1048	133	332	8		
223.9974	13:57	13:58	-3	1.001	2453	672	119	297	6	2.46(1.33-1.79)	
PCB-10											
222.0003	14:07						133	332			
223.9974	14:07						119	297			
PCB-9											RQ
222.0003	15:57	15:54	0	1.144	5670	1313	133	332	10		
	Empc Correction				4029	923	133	332	7		
223.9974	15:58	15:54	0	1.145	2583	592	119	297	5	2.20(1.33-1.79)	
PCB-7											RQa
222.0003	16:07	16:07	0	1.157	12026	2475	133	332	19		a
	Empc Correction				9072	1828	133	332	14		
223.9974	16:07	16:07	0	1.157	5816	1172	119	297	10	2.07(1.33-1.79)	
PCB-6											a
222.0003	16:24	16:24	2	1.177	12230	2045	133	332	15		a
223.9974	16:24	16:24	3	1.178	7670	1491	119	297	13	1.59(1.33-1.79)	
PCB-5											RQMU
222.0003	16:36						133	332			
223.9974	16:36						119	297			
PCB-8											M
222.0003	16:52	16:54	5	1.211	19855	3679	133	332	28		M
223.9974	16:54	16:54	7	1.212	12376	1996	119	297	17	1.60(1.33-1.79)	M
PCB-14											
222.0003	18:39						133	332			
223.9974	18:39						119	297			
PCB-11											Ma
222.0003	19:30	19:16	15	0.970	430469	81341	133	332	612		a
223.9974	19:30	19:16	15	0.970	264870	50707	119	297	426	1.63(1.33-1.79)	M
PCB-12											MU
222.0003	19:30						133	332			
223.9974	19:30						119	297			
PCB-13 (C12)											MU
222.0003	19:30						133	332			
223.9974	19:30						119	297			
PCB-15											a
222.0003	20:06	20:06	15	1.000	8447	1766	133	332	13		a
223.9974	20:07	20:06	16	1.001	4709	1142	119	297	10	1.79(1.33-1.79)	
PCB-19L											
268.0016	17:09	17:15	5	0.836	790945	131028	683	1707	192		
269.9986	17:09	17:15	5	0.836	759695	130738	632	1580	207	1.04(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:31	20:18	13		2002222	451884	683	1707	662		
269.9986	20:31	20:18	12		1818204	412096	632	1580	652	1.10(0.88-1.20)	
PCB-31L											
268.0016	22:39	22:34	5		6771116	1541447	1028	2570	1499		
269.9986	22:39	22:34	5		6358058	1451921	879	2197	1652	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:56	5	1.012	5445551	1201264	1028	2570	1169		
269.9986	22:56	22:56	5	1.012	5186068	1141540	879	2197	1299	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:52	26:56	1	1.186	4236429	935412	1028	2570	910		
269.9986	26:52	26:56	1	1.186	4143289	907166	879	2197	1032	1.02(0.88-1.20)	
PCB-19											
255.9613	17:09	17:13	4	1.000	116	52	18	45	3		RQM
257.9584	17:13	17:13	8	1.003	1264	291	4	10	73	0.09(0.88-1.20)	M
Empc Correction					111	50	4	10	13		
PCB-18											
255.9613	19:00						18	45			
257.9584	19:00						4	10			
PCB-30 (C18)											
255.9613	19:00						18	45			
257.9584	19:00						4	10			
PCB-17											
255.9613	19:27						18	45			
257.9584	19:27						4	10			
PCB-27											
255.9613	19:36	19:39	2	1.143	3642	993	18	45	55		M
257.9584	19:37	19:39	3	1.143	3664	664	4	10	166	0.99(0.88-1.20)	M
PCB-24											
255.9613	19:47						18	45			RQM
257.9584	19:47						4	10			MU
PCB-16											
255.9613	19:50	19:52	1	1.156	459	214	18	45	12		RQM
257.9584	19:52	19:52	3	1.158	2259	676	4	10	169	0.20(0.88-1.20)	M
Empc Correction					441	205	4	10	51		
PCB-32											
255.9613	20:31	20:31	11	1.196	2941	627	18	45	35		RQa
257.9584	20:33	20:31	14	1.198	4403	787	4	10	197	0.67(0.88-1.20)	a
Empc Correction					2827	602	4	10	151		
PCB-34											
255.9613	21:41						170	425			
257.9584	21:41						126	315			
PCB-23											
255.9613	21:50						170	425			
257.9584	21:50						126	315			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-26											RQ
255.9613	22:09	22:09	7	1.291	11098	2657	170	425	16		
257.9584	22:09	22:09	7	1.291	14201	2941	126	315	23	0.78(0.88-1.20)	
Empc Correction					10671	2554	126	315	20		
PCB-29 (C26)											RQ
255.9613	22:09	22:09	7	1.291	11098	2657	170	425	16		
257.9584	22:09	22:09	7	1.291	14201	2941	126	315	23	0.78(0.88-1.20)	
Empc Correction					10671	2554	126	315	20		
PCB-25											RQM
255.9613	22:22	22:22	6	0.833	6687	1736	170	425	10		M
257.9584	22:22	22:22	6	0.833	10994	2019	126	315	16	0.61(0.88-1.20)	M
Empc Correction					6429	1669	126	315	13		
PCB-31											M
255.9613	22:41	22:42	7	0.845	38991	9421	170	425	55		M
257.9584	22:41	22:42	6	0.844	42696	9088	126	315	72	0.91(0.88-1.20)	M
PCB-20											RQM
255.9613	22:57	22:57	4	0.854	47717	10218	170	425	60		Ma
257.9584	22:58	22:57	4	0.855	56234	9584	126	315	76	0.85(0.88-1.20)	M
Empc Correction					45881	9825	126	315	78		
PCB-28 (C20)											RQM
255.9613	22:57	22:57	4	0.854	47717	10218	170	425	60		Ma
257.9584	22:58	22:57	4	0.855	56234	9584	126	315	76	0.85(0.88-1.20)	M
Empc Correction					45881	9825	126	315	78		
PCB-21											RQM
255.9613	23:12	23:12	9	0.864	28701	6311	170	425	37		M
257.9584	23:12	23:12	9	0.864	46588	6248	126	315	50	0.62(0.88-1.20)	M
Empc Correction					27597	6068	126	315	48		
PCB-33 (C21)											RQM
255.9613	23:12	23:12	9	0.864	28701	6311	170	425	37		M
257.9584	23:12	23:12	9	0.864	46588	6248	126	315	50	0.62(0.88-1.20)	M
Empc Correction					27597	6068	126	315	48		
PCB-22											RQM
255.9613	23:34	23:35	4	0.878	16931	4260	170	425	25		M
257.9584	23:35	23:35	5	0.878	30610	4847	126	315	38	0.55(0.88-1.20)	M
Empc Correction					16279	4096	126	315	33		
PCB-36											
255.9613	25:05						170	425			
257.9584	25:05						126	315			
PCB-39											
255.9613	25:26						170	425			
257.9584	25:26						126	315			
PCB-38											
255.9613	26:01						170	425			
257.9584	26:01						126	315			
PCB-35											RQ
255.9613	26:29	26:29	2	0.986	11467	2614	170	425	15		
257.9584	26:29	26:29	2	0.986	14763	4503	126	315	36	0.78(0.88-1.20)	
Empc Correction					11025	2513	126	315	20		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37											M
255.9613	26:54	26:51	2	1.001	9502	2091	170	425	12		M
257.9584	26:52	26:51	1	1.000	9688	1760	126	315	14	0.98(0.88-1.20)	
PCB-54L											a
301.9626	20:23	20:23	15	0.824	628332	144381	150	375	963		a
303.9597	20:23	20:23	15	0.824	778787	175489	50	125	3510	0.81(0.65-0.89)	
PCB-52L											
301.9626	24:43	24:41	2		2943969	658396	685	1712	961		
303.9597	24:43	24:41	2		3727569	838155	715	1787	1172	0.79(0.65-0.89)	
PCB-79L											
301.9626	32:34	32:33	-1	0.971	978219	198216	685	1712	289		
303.9597	32:34	32:33	-1	0.971	1231798	251391	715	1787	352	0.79(0.65-0.89)	
PCB-81L											
301.9626	33:33	33:38	-2	1.357	2815504	549080	685	1712	802		
303.9597	33:33	33:38	-2	1.357	3398651	686309	715	1787	960	0.83(0.65-0.89)	
PCB-77L											
301.9626	34:07	34:11	-2	1.380	2916709	576885	685	1712	842		
303.9597	34:07	34:11	-2	1.380	3637678	715611	715	1787	1001	0.80(0.65-0.89)	
PCB-54											
289.9224	20:10						4	10			
291.9194	20:10						4	10			
PCB-50											
289.9224	22:36						77	192			
291.9194	22:36						164	410			
PCB-53 (C50)											
289.9224	22:36						77	192			
291.9194	22:36						164	410			
PCB-45											a
289.9224	23:08	23:08	5	1.136	58350	13863	77	192	180		a
291.9194	23:08	23:08	4	1.135	73612	14525	164	410	89	0.79(0.65-0.89)	
PCB-51 (C45)											a
289.9224	23:08	23:08	5	1.136	58350	13863	77	192	180		a
291.9194	23:08	23:08	4	1.135	73612	14525	164	410	89	0.79(0.65-0.89)	
PCB-46											
289.9224	23:35						77	192			
291.9194	23:35						164	410			
PCB-52											
289.9224	24:44	24:42	2	1.214	18715	4752	77	192	62		
291.9194	24:46	24:42	4	1.215	21602	4497	164	410	27	0.87(0.65-0.89)	
PCB-43											
289.9224	25:09						77	192			
291.9194	25:09						164	410			
PCB-73 (C43)											
289.9224	25:09						77	192			
291.9194	25:09						164	410			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-49											RQM
289.9224	25:13	25:14	5	1.238	14744	3455	77	192	45		M
	Empc Correction				9260	2310	77	192	30		
291.9194	25:14	25:14	6	1.239	12026	3001	164	410	18	1.23(0.65-0.89)	M
PCB-69 (C49)											RQM
289.9224	25:13	25:14	5	1.238	14744	3455	77	192	45		M
	Empc Correction				9260	2310	77	192	30		
291.9194	25:14	25:14	6	1.239	12026	3001	164	410	18	1.23(0.65-0.89)	M
PCB-48											RQM
289.9224	25:30	25:32	2	1.252	3463	880	77	192	11		
291.9194	25:31	25:32	3	1.252	6960	1687	164	410	10	0.50(0.65-0.89)	M
	Empc Correction				4497	1142	164	410	7		
PCB-44											M
289.9224	25:46	25:43	3	1.264	229617	48156	77	192	625		
291.9194	25:46	25:43	3	1.264	287179	61043	164	410	372	0.80(0.65-0.89)	M
PCB-47 (C44)											M
289.9224	25:46	25:43	3	1.264	229617	48156	77	192	625		
291.9194	25:46	25:43	3	1.264	287179	61043	164	410	372	0.80(0.65-0.89)	M
PCB-65 (C44)											M
289.9224	25:46	25:43	3	1.264	229617	48156	77	192	625		
291.9194	25:46	25:43	3	1.264	287179	61043	164	410	372	0.80(0.65-0.89)	M
PCB-59											RQM
289.9224	26:04	26:18	3	1.279	3961	703	77	192	9		M
291.9194	26:02	26:18	1	1.278	6387	1015	164	410	6	0.62(0.65-0.89)	M
	Empc Correction				5144	912	164	410	6		
PCB-62 (C59)											RQM
289.9224	26:04	26:18	3	1.279	3961	703	77	192	9		M
291.9194	26:02	26:18	1	1.278	6387	1015	164	410	6	0.62(0.65-0.89)	M
	Empc Correction				5144	912	164	410	6		
PCB-75 (C59)											RQM
289.9224	26:04	26:18	3	1.279	3961	703	77	192	9		M
291.9194	26:02	26:18	1	1.278	6387	1015	164	410	6	0.62(0.65-0.89)	M
	Empc Correction				5144	912	164	410	6		
PCB-42											M
289.9224	26:15	26:15	1	1.288	4500	939	77	192	12		M
291.9194	26:16	26:15	3	1.289	5706	1023	164	410	6	0.79(0.65-0.89)	M
PCB-40											RQM
289.9224	26:44	26:42	1	1.312	5693	1303	77	192	17		M
291.9194	26:42	26:42	-1	1.311	13001	1896	164	410	12	0.44(0.65-0.89)	M
	Empc Correction				7393	1692	164	410	10		
PCB-41 (C40)											RQM
289.9224	26:44	26:42	1	1.312	5693	1303	77	192	17		M
291.9194	26:42	26:42	-1	1.311	13001	1896	164	410	12	0.44(0.65-0.89)	M
	Empc Correction				7393	1692	164	410	10		
PCB-71 (C40)											RQM
289.9224	26:44	26:42	1	1.312	5693	1303	77	192	17		M
291.9194	26:42	26:42	-1	1.311	13001	1896	164	410	12	0.44(0.65-0.89)	M
	Empc Correction				7393	1692	164	410	10		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-64											RQM
289.9224	26:56	26:57	1	1.322	6762	1441	77	192	19		
291.9194	26:57	26:57	1	1.323	13389	2797	164	410	17	0.51(0.65-0.89)	M
Empc Correction					8781	1871	164	410	11		
PCB-72											
289.9224	27:44						77	192			
291.9194	27:44						164	410			
PCB-68											M
289.9224	28:04	28:03	1	0.836	49406	10467	77	192	136		
291.9194	28:03	28:03	0	0.836	59382	12500	164	410	76	0.83(0.65-0.89)	M
PCB-57											
289.9224	28:26						77	192			
291.9194	28:26						164	410			
PCB-58											
289.9224	28:41						77	192			
291.9194	28:41						164	410			
PCB-67											
289.9224	28:51						77	192			
291.9194	28:51						164	410			
PCB-63											
289.9224	29:07						77	192			
291.9194	29:07						164	410			
PCB-61											
289.9224	29:28	29:27	0	0.878	19167	3096	77	192	40		
291.9194	29:27	29:27	-2	0.878	23537	3434	164	410	21	0.81(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:28	29:27	0	0.878	19167	3096	77	192	40		
291.9194	29:27	29:27	-2	0.878	23537	3434	164	410	21	0.81(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:28	29:27	0	0.878	19167	3096	77	192	40		
291.9194	29:27	29:27	-2	0.878	23537	3434	164	410	21	0.81(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:28	29:27	0	0.878	19167	3096	77	192	40		
291.9194	29:27	29:27	-2	0.878	23537	3434	164	410	21	0.81(0.65-0.89)	
PCB-66											RQM
289.9224	29:49	29:49	1	0.889	10885	2156	77	192	28		M
291.9194	29:48	29:49	1	0.888	18121	3501	164	410	21	0.60(0.65-0.89)	
Empc Correction					14136	2800	164	410	17		
PCB-55											
289.9224	29:56						77	192			
291.9194	29:56						164	410			
PCB-56											
289.9224	30:27	30:27	-1	0.908	5467	1185	77	192	15		
291.9194	30:27	30:27	-1	0.908	7568	1750	164	410	11	0.72(0.65-0.89)	
PCB-60											
289.9224	30:39						77	192			
291.9194	30:39						164	410			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-80											
289.9224	31:03						77	192			
291.9194	31:03						164	410			
PCB-79											
289.9224	32:35						77	192			
291.9194	32:35						164	410			
PCB-78											
289.9224	33:08						77	192			
291.9194	33:08						164	410			
PCB-81											
289.9224	33:34						77	192			
291.9194	33:34						164	410			
PCB-77											
289.9224	34:08						77	192			
291.9194	34:08						164	410			
PCB-104L											
337.9207	25:39	25:37	2	0.814	2945908	631101	119	297	5303		
339.9178	25:39	25:37	1	0.814	1839686	400314	75	187	5338	1.60(1.32-1.78)	
PCB-95L											
337.9207	28:35	28:38	0	1.114	749280	160075	119	297	1345		
339.9178	28:35	28:38	0	1.114	469050	96282	75	187	1284	1.60(1.32-1.78)	
PCB-101L											
337.9207	31:30	31:31	-1		2694887	548329	119	297	4608		
339.9178	31:30	31:31	-1		1681143	352577	75	187	4701	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:10	34:11	-2	1.084	3076003	622243	119	297	5229		
339.9178	34:10	34:11	-2	1.084	1932065	397529	75	187	5300	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:07	36:08	-2	1.146	3708282	730770	3509	8772	208		
339.9178	36:07	36:08	-2	1.146	2381155	477524	2095	5237	228	1.56(1.32-1.78)	
PCB-118L											
337.9207	36:26	36:27	-2	1.156	3904573	782470	3509	8772	223		
339.9178	36:26	36:27	-2	1.156	2473575	498054	2095	5237	238	1.58(1.32-1.78)	
PCB-114L											
337.9207	36:57	36:59	-2	1.173	3859631	757987	3509	8772	216		
339.9178	36:57	36:59	-2	1.173	2446630	473959	2095	5237	226	1.58(1.32-1.78)	
PCB-105L											
337.9207	37:36	37:37	-2	1.194	3719394	722092	3509	8772	206		
339.9178	37:36	37:37	-2	1.194	2325233	455375	2095	5237	217	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:04	39:07	-3		4335615	854650	3509	8772	244		
339.9178	39:05	39:07	-2		2727768	522119	2095	5237	249	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:41	40:43	-3	1.292	3682919	688022	3509	8772	196		
339.9178	40:41	40:43	-3	1.292	2273433	428695	2095	5237	205	1.62(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-104											
325.8804	25:39						30	75			
327.8775	25:39						7	17			
PCB-96											
325.8804	26:03						30	75			
327.8775	26:03						7	17			
PCB-103											
325.8804	27:59						30	75			
327.8775	27:59						7	17			
PCB-94											
325.8804	28:12						30	75			
327.8775	28:12						7	17			
PCB-95											
325.8804	28:34	28:39	-2	1.114	5171	1004	30	75	33		M
327.8775	28:36	28:39	0	1.115	3669	965	7	17	138	1.41(1.32-1.78)	M
PCB-93											
325.8804	28:52						30	75			
327.8775	28:52						7	17			
PCB-100 (C93)											
325.8804	28:52						30	75			
327.8775	28:52						7	17			
PCB-98											
325.8804	28:57	28:57	-2	1.128	739	195	30	75	7		RQM
327.8775	28:57	28:57	-2	1.128	778	161	7	17	23	0.95(1.32-1.78)	M
	Empc Correction				476	125	7	17	18		
PCB-102 (C98)											
325.8804	28:57	28:57	-2	1.128	739	195	30	75	7		RQM
327.8775	28:57	28:57	-2	1.128	778	161	7	17	23	0.95(1.32-1.78)	M
	Empc Correction				476	125	7	17	18		
PCB-88											
325.8804	29:26	29:31	-2	1.147	1060	349	30	75	12		RQ
327.8775	29:27	29:31	-1	1.148	1662	387	7	17	55	0.64(1.32-1.78)	
	Empc Correction				683	225	7	17	32		
PCB-91 (C88)											
325.8804	29:26	29:31	-2	1.147	1060	349	30	75	12		RQ
327.8775	29:27	29:31	-1	1.148	1662	387	7	17	55	0.64(1.32-1.78)	
	Empc Correction				683	225	7	17	32		
PCB-84											
325.8804	29:42	29:44	1	1.158	1335	347	30	75	12		RQ
	Empc Correction				486	161	30	75	5		
327.8775	29:42	29:44	1	1.158	314	104	7	17	15	4.25(1.32-1.78)	
PCB-89											
325.8804	30:13						30	75			
327.8775	30:13						7	17			
PCB-121											
325.8804	30:37						30	75			
327.8775	30:37						7	17			

Signal	RT (min.)	Adj RT (min.)	ℓ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-92											
325.8804	30:56	30:56	-2	0.856	1450	353	30	75	12		RQM
	Empc Correction				443	165	30	75	6		M
327.8775	30:56	30:56	-1	0.857	286	107	7	17	15	5.07(1.32-1.78)	
PCB-90											
325.8804	31:31	31:34	0	1.228	6108	1403	30	75	47		RQ
327.8775	31:30	31:34	-1	1.228	5144	1208	7	17	173	1.19(1.32-1.78)	
	Empc Correction				3940	905	7	17	129		
PCB-101 (C90)											
325.8804	31:31	31:34	0	1.228	6108	1403	30	75	47		RQ
327.8775	31:30	31:34	-1	1.228	5144	1208	7	17	173	1.19(1.32-1.78)	
	Empc Correction				3940	905	7	17	129		
PCB-113 (C90)											
325.8804	31:31	31:34	0	1.228	6108	1403	30	75	47		RQ
327.8775	31:30	31:34	-1	1.228	5144	1208	7	17	173	1.19(1.32-1.78)	
	Empc Correction				3940	905	7	17	129		
PCB-83											
325.8804	32:08	32:09	1	1.252	4284	756	30	75	25		RQ
	Empc Correction				2521	1098	30	75	37		
327.8775	32:06	32:09	0	1.251	1627	709	7	17	101	2.63(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:08	32:09	1	1.252	4284	756	30	75	25		RQ
	Empc Correction				2521	1098	30	75	37		
327.8775	32:06	32:09	0	1.251	1627	709	7	17	101	2.63(1.32-1.78)	
PCB-112											
325.8804	32:16						30	75			
327.8775	32:16						7	17			
PCB-86											
325.8804	32:41	32:38	4	1.274	5798	692	30	75	23		M
327.8775	32:38	32:38	1	1.272	4235	564	7	17	81	1.37(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:41	32:38	4	1.274	5798	692	30	75	23		M
327.8775	32:38	32:38	1	1.272	4235	564	7	17	81	1.37(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:41	32:38	4	1.274	5798	692	30	75	23		M
327.8775	32:38	32:38	1	1.272	4235	564	7	17	81	1.37(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:41	32:38	4	1.274	5798	692	30	75	23		M
327.8775	32:38	32:38	1	1.272	4235	564	7	17	81	1.37(1.32-1.78)	M
PCB-119 (C86)											
325.8804	32:41	32:38	4	1.274	5798	692	30	75	23		M
327.8775	32:38	32:38	1	1.272	4235	564	7	17	81	1.37(1.32-1.78)	M
PCB-125 (C86)											
325.8804	32:41	32:38	4	1.274	5798	692	30	75	23		M
327.8775	32:38	32:38	1	1.272	4235	564	7	17	81	1.37(1.32-1.78)	M
PCB-85											
325.8804	33:17	33:19	-2	1.297	1611	505	30	75	17		RQ
	Empc Correction				260	151	30	75	5		
327.8775	33:17	33:19	-2	1.297	168	98	7	17	14	9.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-116 (C85)											RQ
325.8804	33:17	33:19	-2	1.297	1611	505	30	75	17		
	Empc Correction				260	151	30	75	5		
327.8775	33:17	33:19	-2	1.297	168	98	7	17	14	9.59(1.32-1.78)	
PCB-117 (C85)											RQ
325.8804	33:17	33:19	-2	1.297	1611	505	30	75	17		
	Empc Correction				260	151	30	75	5		
327.8775	33:17	33:19	-2	1.297	168	98	7	17	14	9.59(1.32-1.78)	
PCB-110											M
325.8804	33:28	33:30	-3	1.305	8759	1669	30	75	56		M
327.8775	33:30	33:30	-2	1.306	5768	943	7	17	135	1.52(1.32-1.78)	M
PCB-115 (C110)											M
325.8804	33:28	33:30	-3	1.305	8759	1669	30	75	56		M
327.8775	33:30	33:30	-2	1.306	5768	943	7	17	135	1.52(1.32-1.78)	M
PCB-82											RQa
325.8804	33:47	33:53	-2	1.317	857	348	30	75	12		a
	Empc Correction				440	175	30	75	6		
327.8775	33:48	33:53	-2	1.317	284	113	7	17	16	3.02(1.32-1.78)	
PCB-111											
325.8804	34:16						30	75			
327.8775	34:16						7	17			
PCB-120											
325.8804	34:44						30	75			
327.8775	34:44						7	17			
PCB-108											
325.8804	35:52						183	457			
327.8775	35:52						94	235			
PCB-124 (C108)											
325.8804	35:52						183	457			
327.8775	35:52						94	235			
PCB-107											
325.8804	36:06						183	457			
327.8775	36:06						94	235			
PCB-123											
325.8804	36:09						183	457			
327.8775	36:09						94	235			
PCB-106											
325.8804	36:16						183	457			
327.8775	36:16						94	235			
PCB-118											M
325.8804	36:27	36:28	-2	1.001	5282	1263	183	457	7		
327.8775	36:27	36:28	-2	1.001	3000	898	94	235	10	1.76(1.32-1.78)	M
PCB-122											
325.8804	36:48						183	457			
327.8775	36:48						94	235			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-114											
325.8804	36:58						183	457			
327.8775	36:58						94	235			
PCB-105											
325.8804	37:38						183	457			
327.8775	37:38						94	235			
PCB-127											
325.8804	39:06						183	457			
327.8775	39:06						94	235			
PCB-126											
325.8804	40:42						183	457			
327.8775	40:42						94	235			
PCB-155L											
371.8817	31:16	31:15	-1	0.790	2395746	492996	84	210	5869		
373.8788	31:16	31:15	-1	0.790	1879105	386590	80	200	4832	1.27(1.05-1.43)	
PCB-153L											
371.8817	38:19	38:18	-2	0.900	918390	186295	173	432	1077		
373.8788	38:19	38:18	-2	0.900	716091	140508	1409	3522	100	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:33	39:35	-3		2843442	553399	173	432	3199		
373.8788	39:33	39:35	-3		2242820	426820	1409	3522	303	1.27(1.05-1.43)	
PCB-167L											
371.8817	42:33	42:33	-3	1.076	2998638	569733	173	432	3293		
373.8788	42:33	42:33	-3	1.076	2338213	452131	1409	3522	321	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:41	43:41	-3	1.105	6016120	778964	173	432	4503		
373.8788	43:42	43:41	-2	1.105	4726700	606821	1409	3522	431	1.27(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:41	43:41	-3	1.105	6016120	778964	173	432	4503		
373.8788	43:42	43:41	-2	1.105	4726700	606821	1409	3522	431	1.27(1.05-1.43)	
PCB-169L											
371.8817	46:55	46:55	-3	1.187	3014799	570826	173	432	3300		
373.8788	46:55	46:55	-3	1.187	2353535	451102	1409	3522	320	1.28(1.05-1.43)	
PCB-155											
359.8415	31:17						7	17			
361.8385	31:17						1	2			
PCB-152											
359.8415	31:29						7	17			
361.8385	31:29						1	2			
PCB-150											
359.8415	31:39						7	17			
361.8385	31:39						1	2			
PCB-136											
359.8415	32:01						7	17			
361.8385	32:01						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-145											
359.8415	32:19						7	17			
361.8385	32:19						1	2			
PCB-148											
359.8415	33:49						7	17			
361.8385	33:49						1	2			
PCB-135											
359.8415	34:27	34:24	1	1.102	1617	403	7	17	58		RQ
	Empc Correction				204	70	7	17	10		
361.8385	34:28	34:24	3	1.103	165	57	1	2	57	9.80(1.05-1.43)	
PCB-151 (C135)											
359.8415	34:27	34:24	1	1.102	1617	403	7	17	58		RQ
	Empc Correction				204	70	7	17	10		
361.8385	34:28	34:24	3	1.103	165	57	1	2	57	9.80(1.05-1.43)	
PCB-154											
359.8415	34:40						7	17			
361.8385	34:40						1	2			
PCB-144											
359.8415	34:58						7	17			
361.8385	34:58						1	2			
PCB-147											
359.8415	35:21	35:18	1	1.131	2005	435	34	85	13		RQM
361.8385	35:18	35:18	-2	1.129	3532	704	2	5	352	0.57(1.05-1.43)	M
	Empc Correction				1616	350	2	5	175		
PCB-149 (C147)											
359.8415	35:21	35:18	1	1.131	2005	435	34	85	13		RQM
361.8385	35:18	35:18	-2	1.129	3532	704	2	5	352	0.57(1.05-1.43)	M
	Empc Correction				1616	350	2	5	175		
PCB-134											
359.8415	35:38						34	85			
361.8385	35:38						2	5			
PCB-143 (C134)											
359.8415	35:38						34	85			
361.8385	35:38						2	5			
PCB-139											
359.8415	35:56						34	85			
361.8385	35:56						2	5			
PCB-140 (C139)											
359.8415	35:56						34	85			
361.8385	35:56						2	5			
PCB-131											
359.8415	36:08						34	85			
361.8385	36:08						2	5			
PCB-142											
359.8415	36:17						34	85			
361.8385	36:17						2	5			

	Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
	PCB-132											RQM
	359.8415	36:35	36:39	-2	1.170	2073	640	34	85	19		
		Empc Correction				1242	403	34	85	12		
	361.8385	36:39	36:39	2	1.172	1002	325	2	5	163	2.07(1.05-1.43)	M
	PCB-133											
	359.8415	37:06						34	85			
	361.8385	37:06						2	5			
	PCB-165											
	359.8415	37:28						34	85			
	361.8385	37:28						2	5			
	PCB-146											RQM
	359.8415	37:45	37:45	-1	0.887	973	307	34	85	9		
		Empc Correction				679	172	34	85	5		
	361.8385	37:42	37:45	-4	0.886	548	139	2	5	70	1.78(1.05-1.43)	M
	PCB-161											
	359.8415	37:51						34	85			
	361.8385	37:51						2	5			
	PCB-153											M
	359.8415	38:20	38:19	-3	0.901	3321	594	34	85	17		
	361.8385	38:19	38:19	-4	0.901	3087	812	2	5	406	1.08(1.05-1.43)	M
	PCB-168 (C153)											M
	359.8415	38:20	38:19	-3	0.901	3321	594	34	85	17		
	361.8385	38:19	38:19	-4	0.901	3087	812	2	5	406	1.08(1.05-1.43)	M
	PCB-141											
	359.8415	38:31						34	85			
	361.8385	38:31						2	5			
	PCB-130											
	359.8415	38:56						34	85			
	361.8385	38:56						2	5			
	PCB-137											RQMa
	359.8415	39:10	39:11	-2	0.921	271	139	34	85	4		
		Empc Correction				168	93	34	85	3		
	361.8385	39:11	39:11	-1	0.921	136	75	2	5	38	1.99(1.05-1.43)	a
	PCB-164											
	359.8415	39:16						34	85			
	361.8385	39:16						2	5			
	PCB-129											RQM
	359.8415	39:35	39:36	-3	0.930	2961	689	34	85	20		
	361.8385	39:34	39:36	-4	0.930	3078	784	2	5	392	0.96(1.05-1.43)	M
		Empc Correction				2387	555	2	5	278		
	PCB-138 (C129)											RQM
	359.8415	39:35	39:36	-3	0.930	2961	689	34	85	20		
	361.8385	39:34	39:36	-4	0.930	3078	784	2	5	392	0.96(1.05-1.43)	M
		Empc Correction				2387	555	2	5	278		
	PCB-160 (C129)											RQM
	359.8415	39:35	39:36	-3	0.930	2961	689	34	85	20		
	361.8385	39:34	39:36	-4	0.930	3078	784	2	5	392	0.96(1.05-1.43)	M
		Empc Correction				2387	555	2	5	278		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-163 (C129)											RQM
359.8415	39:35	39:36	-3	0.930	2961	689	34	85	20		M
361.8385	39:34	39:36	-4	0.930	3078	784	2	5	392	0.96(1.05-1.43)	M
Empc Correction					2387	555	2	5	278		
PCB-158											
359.8415	39:57						34	85			
361.8385	39:57						2	5			
PCB-128											RQ
359.8415	40:52	40:49	1	0.961	384	192	34	85	6		
Empc Correction					59	32	34	85	1		
361.8385	40:51	40:49	0	0.960	48	26	2	5	13	8.00(1.05-1.43)	
PCB-166 (C128)											RQ
359.8415	40:52	40:49	1	0.961	384	192	34	85	6		
Empc Correction					59	32	34	85	1		
361.8385	40:51	40:49	0	0.960	48	26	2	5	13	8.00(1.05-1.43)	
PCB-159											
359.8415	41:48						34	85			
361.8385	41:48						2	5			
PCB-162											
359.8415	42:06						34	85			
361.8385	42:06						2	5			
PCB-167											RQ
359.8415	42:33	42:36	-4	1.000	1248	305	34	85	9		
Empc Correction					462	153	34	85	5		
361.8385	42:33	42:36	-4	1.000	373	124	2	5	62	3.35(1.05-1.43)	
PCB-156											RQM
359.8415	43:41	43:42	-5	1.000	572	145	34	85	4		M
361.8385	43:42	43:42	-4	1.000	939	272	2	5	136	0.61(1.05-1.43)	M
Empc Correction					461	116	2	5	58		
PCB-157 (C156)											RQM
359.8415	43:41	43:42	-5	1.000	572	145	34	85	4		M
361.8385	43:42	43:42	-4	1.000	939	272	2	5	136	0.61(1.05-1.43)	M
Empc Correction					461	116	2	5	58		
PCB-169											
359.8415	46:56						34	85			
361.8385	46:56						2	5			
PCB-188L											
405.8428	36:57	36:58	-2	0.820	2480172	478656	83	207	5767		
407.8398	36:57	36:58	-2	0.820	2329627	462106	48	120	9627	1.06(0.89-1.21)	
PCB-178L											
405.8428	40:00	40:01	-3	0.887	1913101	373723	83	207	4503		
407.8398	40:00	40:01	-3	0.887	1788083	348142	48	120	7253	1.07(0.89-1.21)	
PCB-180L											
405.8428	45:06	45:08	-2		2078032	382529	83	207	4609		
407.8398	45:06	45:08	-2		1967932	374941	48	120	7811	1.06(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags		
PCB-170L													
405.8428	46:21	46:21	-3	1.028	1554528	288101	83	207	3471	1.06(0.89-1.21)			
407.8398	46:21	46:21	-3	1.028	1464021	274730	48	120	5724				
PCB-189L													
405.8428	49:27	49:27	-2	1.097	3294606	621596	1073	2682	579	1.05(0.89-1.21)			
407.8398	49:27	49:27	-2	1.097	3151426	588848	1072	2680	549				
PCB-188													
393.8025	36:59						1	2		RQU			
395.7995	36:59						1	2					
PCB-179													
393.8025	37:20						1	2					
395.7995	37:20						1	2					
PCB-184													
393.8025	37:52						1	2					
395.7995	37:52						1	2					
PCB-176													
393.8025	38:12						1	2					
395.7995	38:12						1	2					
PCB-186													
393.8025	38:39						1	2		RQ			
395.7995	38:39						1	2					
PCB-178													
393.8025	40:02						1	2					
395.7995	40:02						1	2					
PCB-175													
393.8025	40:40						1	2					
395.7995	40:40						1	2					
PCB-187													
393.8025	40:56	40:55	-3	1.107	1248	340	1	2	340			1.31(0.89-1.21)	
	Empc Correction				1001	276	1	2	276				
395.7995	40:55	40:55	-3	1.107	954	263	1	2	263				
PCB-182													
393.8025	41:08						1	2		RQM			
395.7995	41:08						1	2					
PCB-183													
393.8025	41:31	41:39	-4	1.123	888	185	1	2	185			0.50(0.89-1.21)	M
395.7995	41:31	41:39	-4	1.123	1781	620	1	2	620				
	Empc Correction				845	176	1	2	176				
PCB-185 (C183)													
393.8025	41:31	41:39	-4	1.123	888	185	1	2	185			0.50(0.89-1.21)	M
395.7995	41:31	41:39	-4	1.123	1781	620	1	2	620				
	Empc Correction				845	176	1	2	176				
PCB-174													
393.8025	41:47						1	2					
395.7995	41:47						1	2					

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-177											
393.8025	42:13						1	2			
395.7995	42:13						1	2			
PCB-181											
393.8025	42:36						1	2			
395.7995	42:36						1	2			
PCB-171											
393.8025	42:52	42:52	0	1.160	827	306	1	2	306		RQM M
	Empc Correction				44	19	1	2	19		
395.7995	42:51	42:52	-1	1.159	42	19	1	2	19	19.69(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:52	42:52	0	1.160	827	306	1	2	306		RQM M
	Empc Correction				44	19	1	2	19		
395.7995	42:51	42:52	-1	1.159	42	19	1	2	19	19.69(0.89-1.21)	
PCB-172											
393.8025	44:33	44:30	3	0.901	28	15	1	2	15		RQM M
395.7995	44:33	44:30	3	0.901	402	130	1	2	130	0.07(0.89-1.21)	M
	Empc Correction				26	14	1	2	14		
PCB-192											
393.8025	44:44						1	2			
395.7995	44:44						1	2			
PCB-180											
393.8025	45:10	45:10	3	0.913	1714	351	1	2	351		RQM M
	Empc Correction				1159	233	1	2	233		
395.7995	45:06	45:10	0	0.912	1104	222	1	2	222	1.55(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:10	45:10	3	0.913	1714	351	1	2	351		RQM M
	Empc Correction				1159	233	1	2	233		
395.7995	45:06	45:10	0	0.912	1104	222	1	2	222	1.55(0.89-1.21)	
PCB-191											
393.8025	45:29						1	2			
395.7995	45:29						1	2			
PCB-170											
393.8025	46:22						1	2			
395.7995	46:22						1	2			
PCB-190											
393.8025	46:54						1	2			
395.7995	46:54						1	2			
PCB-189											
393.8025	49:28						13	32			
395.7995	49:28						21	52			
PCB-202L											
439.8038	42:19	42:19	-2	0.821	1706806	332585	8	20	41573		
441.8008	42:19	42:19	-2	0.821	1889908	359436	60	150	5991	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:34	51:36	-2		2518640	461438	172	430	2683		
441.8008	51:34	51:36	-2		2720393	504855	167	417	3023	0.93(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205L											
439.8038	52:01	52:02	-3	1.009	2608756	466978	172	430	2715	0.91(0.76-1.02)	
441.8008	52:01	52:02	-3	1.009	2867376	509676	167	417	3052		
PCB-202											
427.7635	42:22						22	55			
429.7606	42:22						2	5			
PCB-201											
427.7635	43:16						22	55			
429.7606	43:16						2	5			
PCB-204											
427.7635	43:56						22	55			
429.7606	43:56						2	5			
PCB-197											
427.7635	44:15	44:15	4	1.046	211	117	22	55	5		RQMa
429.7606	44:15	44:15	4	1.046	375	196	2	5	98	0.56(0.76-1.02)	M
Empc Correction					237	131	2	5	66		a
PCB-200											
427.7635	44:21	44:18	2	1.048	136	69	22	55	3		RQM
429.7606	44:21	44:18	2	1.048	328	115	2	5	58	0.41(0.76-1.02)	M
Empc Correction					152	77	2	5	39		
PCB-198											
427.7635	47:05	47:05	0	1.112	277	100	22	55	5		RQM
429.7606	47:07	47:05	2	1.113	465	197	2	5	99	0.60(0.76-1.02)	M
Empc Correction					311	112	2	5	56		
PCB-199 (C198)											
427.7635	47:05	47:05	0	1.112	277	100	22	55	5		RQM
429.7606	47:07	47:05	2	1.113	465	197	2	5	99	0.60(0.76-1.02)	M
Empc Correction					311	112	2	5	56		
PCB-196											
427.7635	47:43						22	55			
429.7606	47:43						2	5			
PCB-203											
427.7635	47:55						22	55			
429.7606	47:55						2	5			
PCB-195											
427.7635	49:15						13	32			RQU
429.7606	49:15						16	40			
PCB-194											
427.7635	51:37	51:37	-1	0.992	750	174	13	32	13		Ma
429.7606	51:35	51:37	-2	0.992	848	325	16	40	20	0.88(0.76-1.02)	M
											a
PCB-205											
427.7635	52:02						13	32			
429.7606	52:02						16	40			
PCB-208L											
473.7648	48:58	48:59	-3	0.950	2199125	403994	415	1037	973		
475.7619	48:58	48:59	-3	0.950	2761343	520020	589	1472	883	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-206L											
473.7648	53:46	53:47	-3	1.043	1614870	285604	415	1037	688		
475.7619	53:46	53:47	-3	1.043	1975914	359054	589	1472	610	0.82(0.65-0.89)	
PCB-208											
461.7246	48:59						226	565			
463.7216	48:59						341	852			
PCB-207											
461.7246	49:55						226	565			
463.7216	49:55						341	852			
PCB-206											
461.7246	53:47						226	565			
463.7216	53:47						341	852			
PCB-209L											
507.7258	55:23	55:24	-3	1.074	1617192	285993	104	260	2750		
509.7229	55:23	55:24	-3	1.074	2215942	380890	71	177	5365	0.73(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:25	55:25	-3	1.000	200	94	6	15	16		M
497.6826	55:25	55:25	-2	1.001	267	91	1	2	91	0.75(0.59-0.79)	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d

Injection Date: 11-Jun-2024 20:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

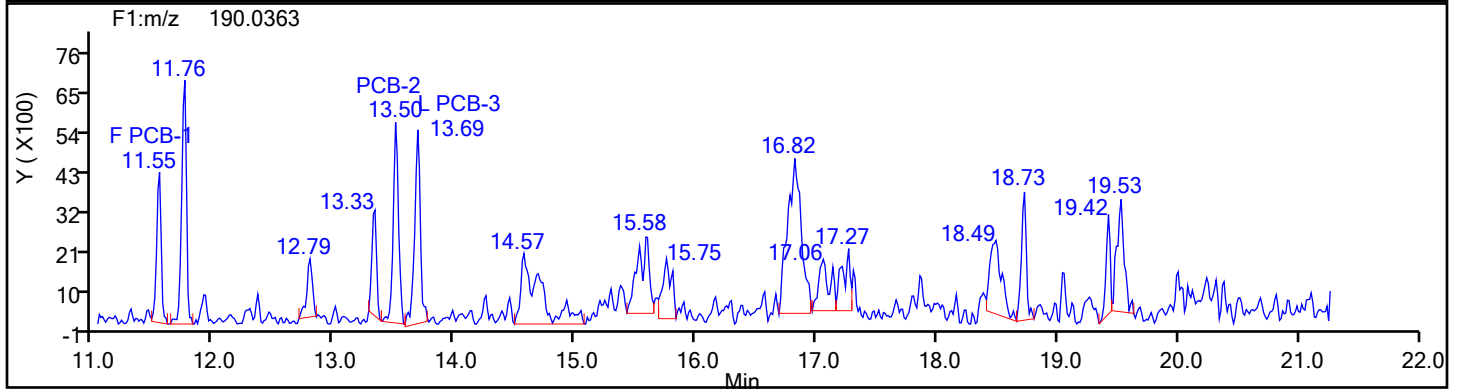
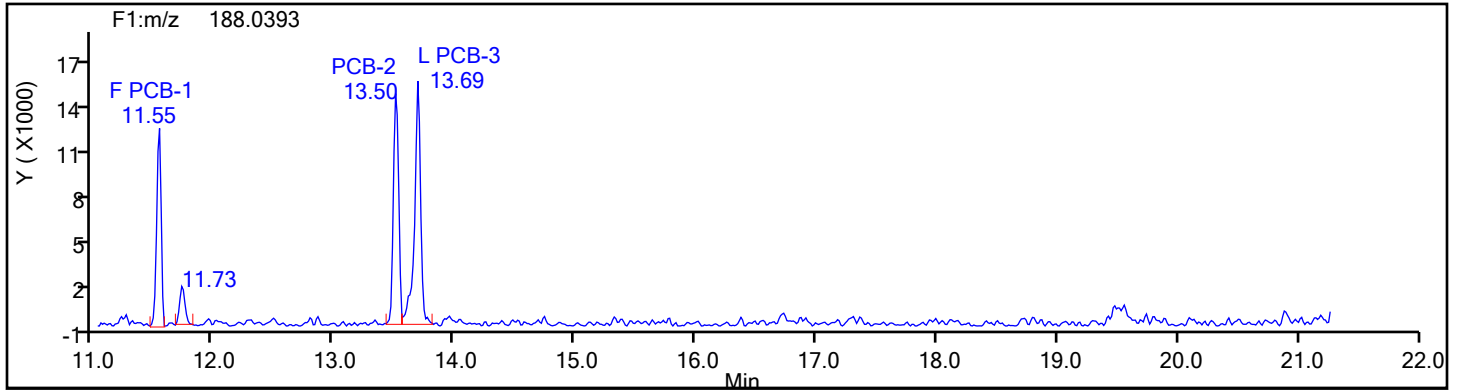
Worklist#: 87502

Sample Line#: 13

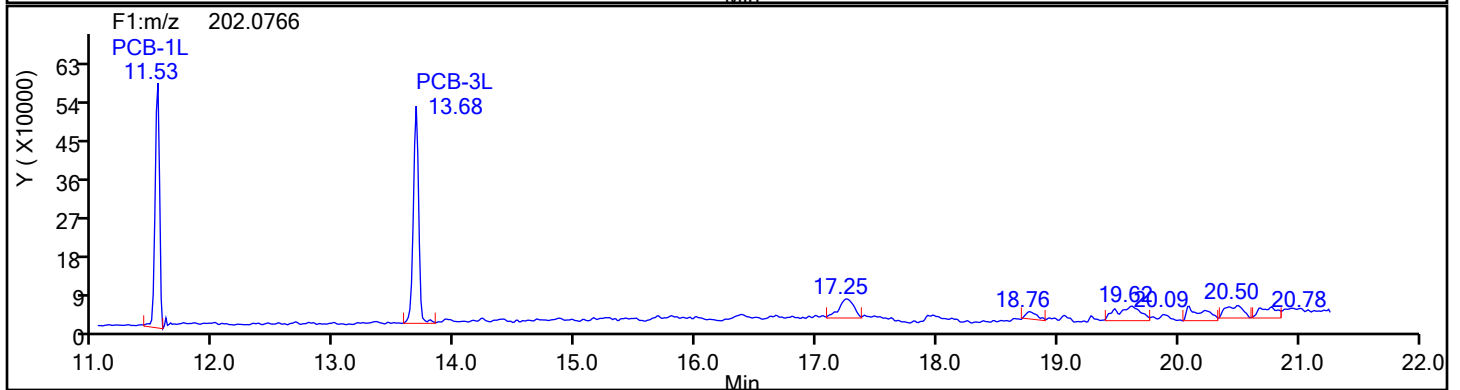
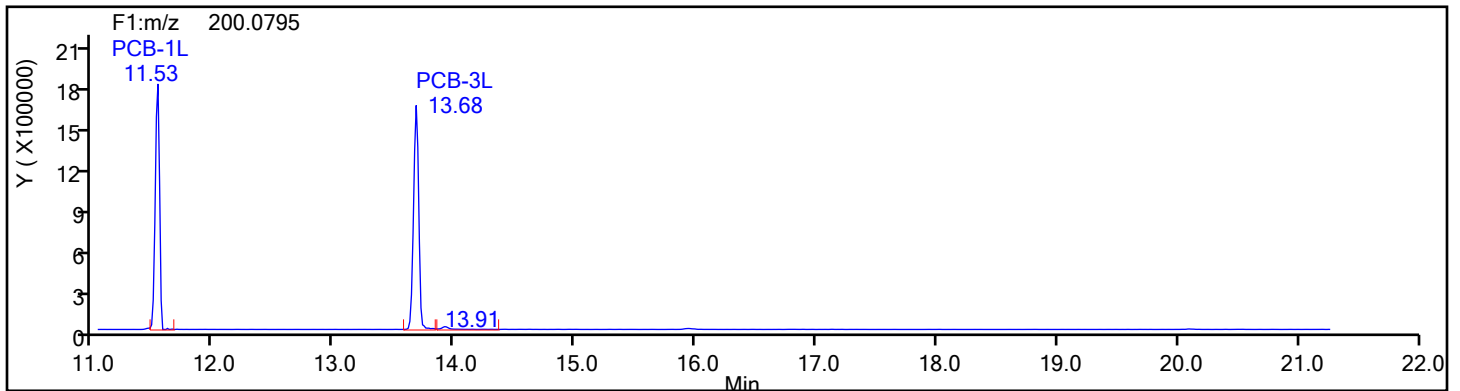
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1

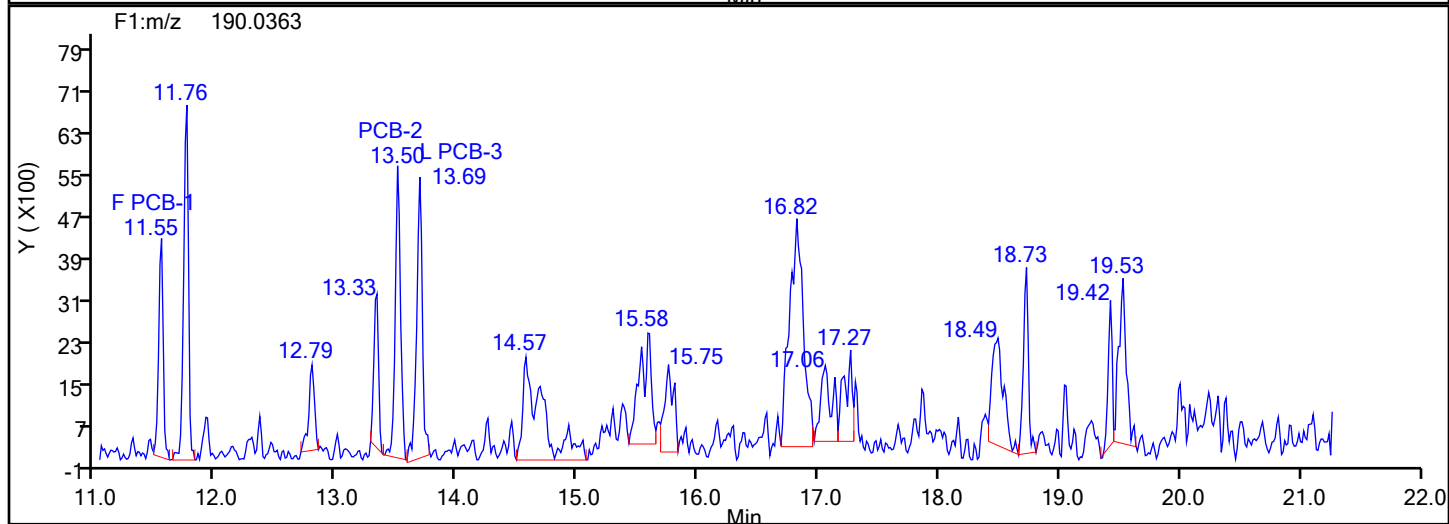


MoPCB F1 Standards



Column Dia: 0.25 mm

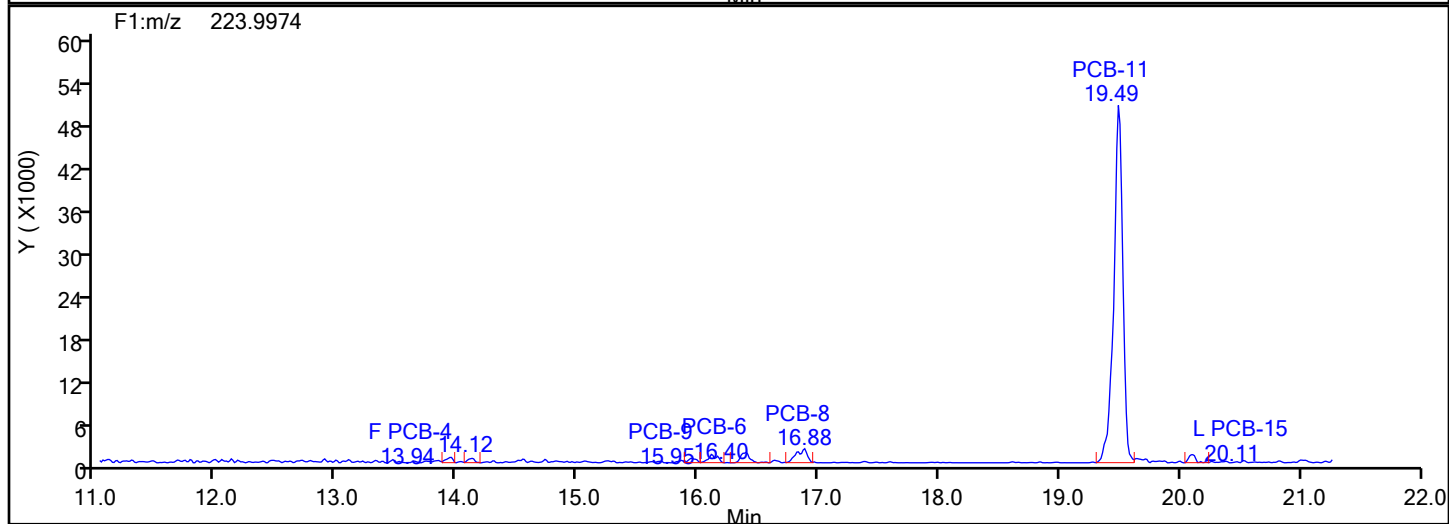
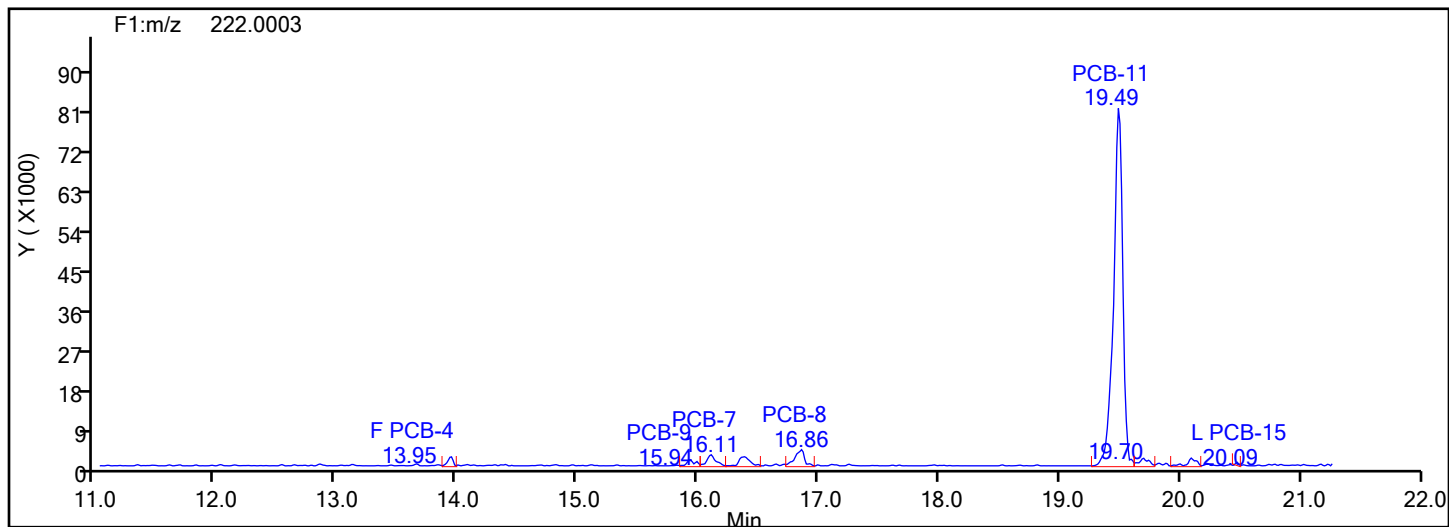
Chromatogram showing peaks for PCB-1, PCB-2, and PCB-3. The x-axis is time in minutes (Min) from 11.0 to 22.0. The y-axis is signal intensity Y (X1000) from -1 to 19. Peaks are labeled: F PCB-1 at 11.55, 11.73; PCB-2 at 13.50; L PCB-3 at 13.69. A red line indicates the baseline.



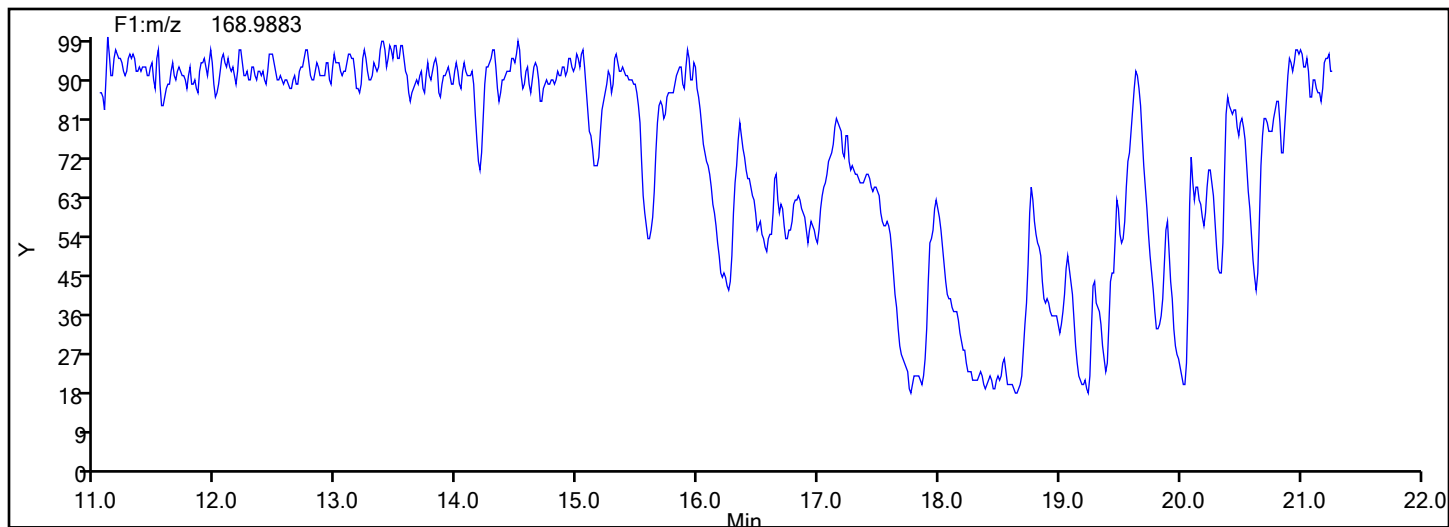
Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

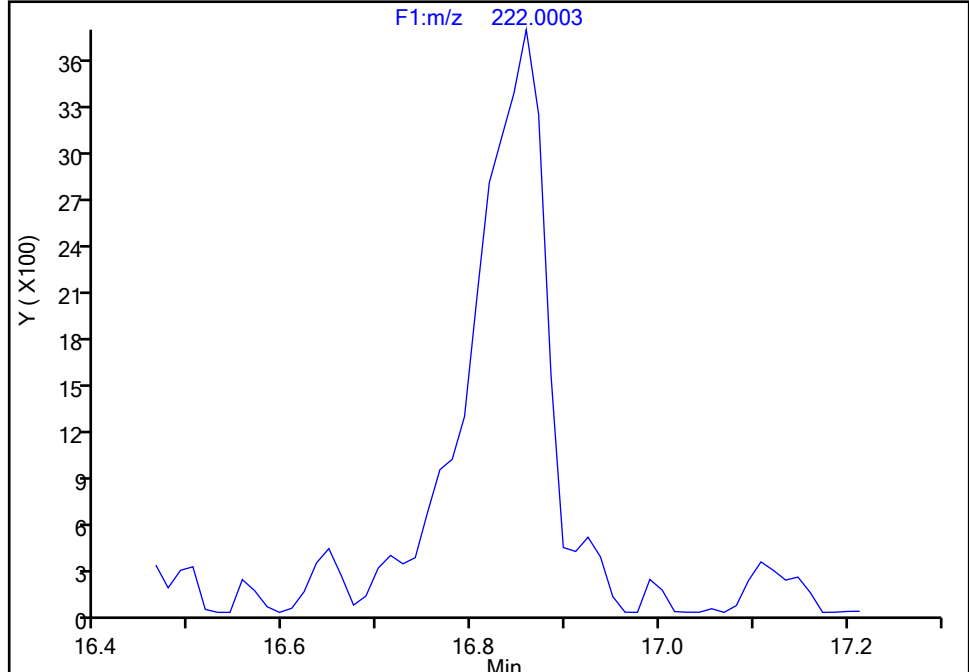
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

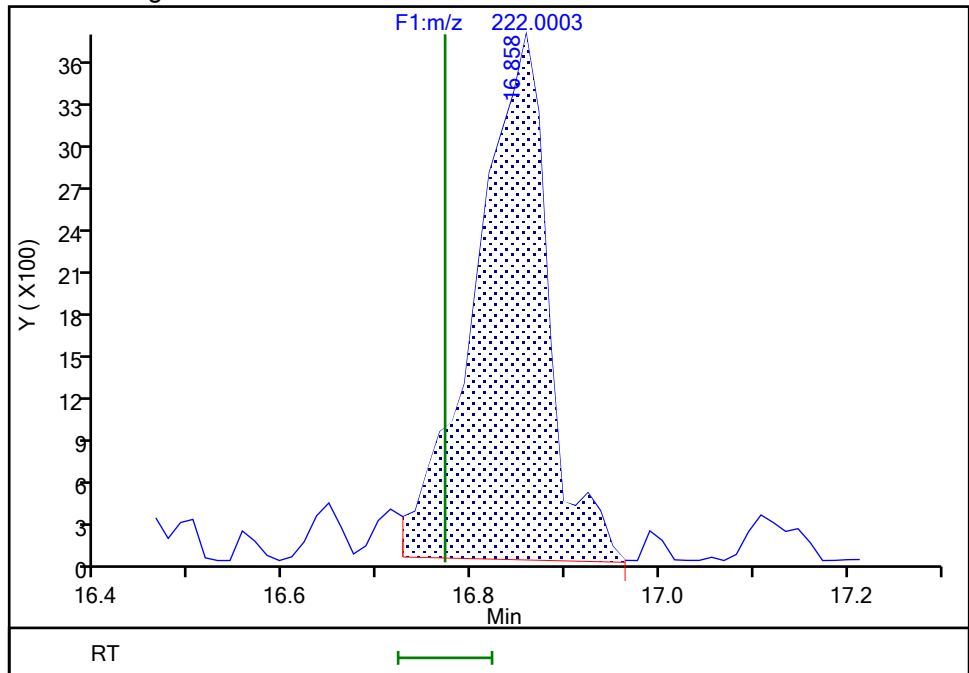
Not Detected
Expected RT: 16.77

Processing Integration Results



RT: 16.86
Area: 19855
Amount: 0.757477
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:51:05 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Eurofins Knoxville

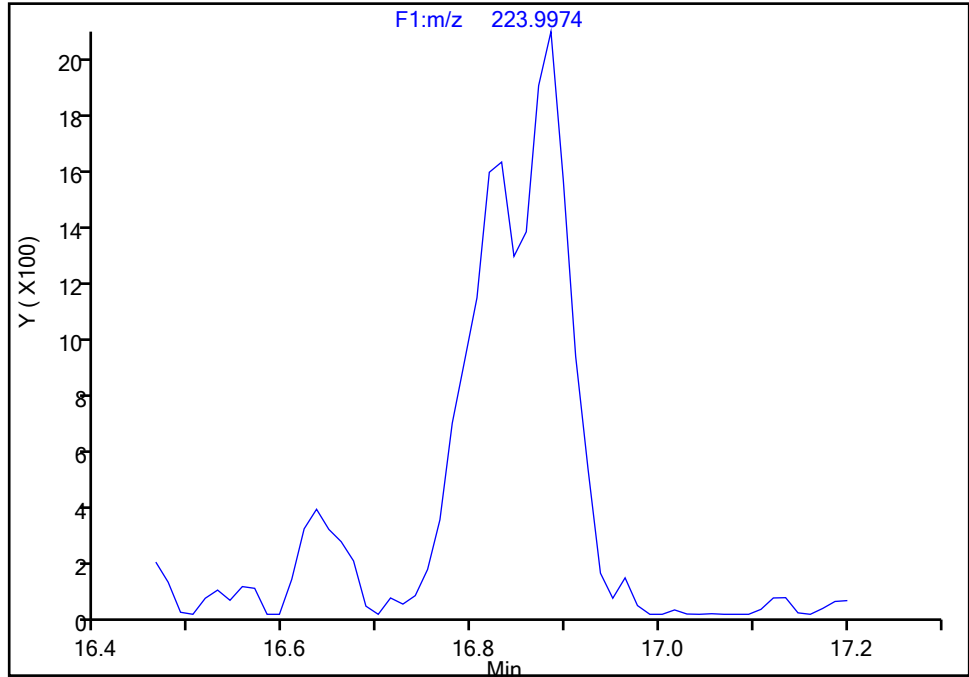
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Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 2

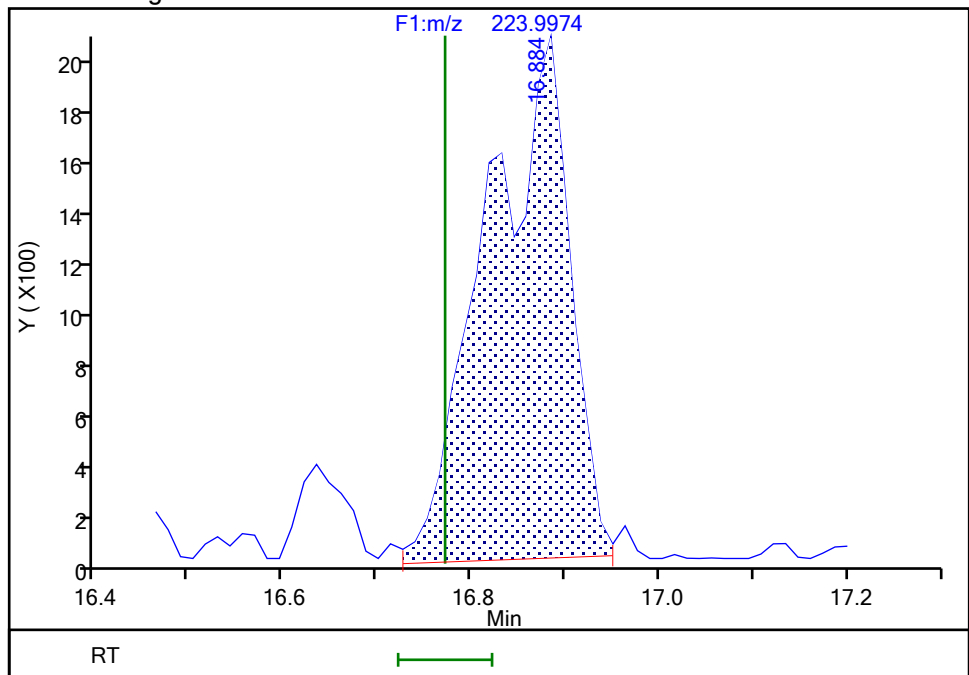
Not Detected
Expected RT: 16.77

Processing Integration Results



RT: 16.88
Area: 12376
Amount: 0.757477
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:51:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-01522716
9/6/2024
2:43:26 PM

Eurofins Knoxville

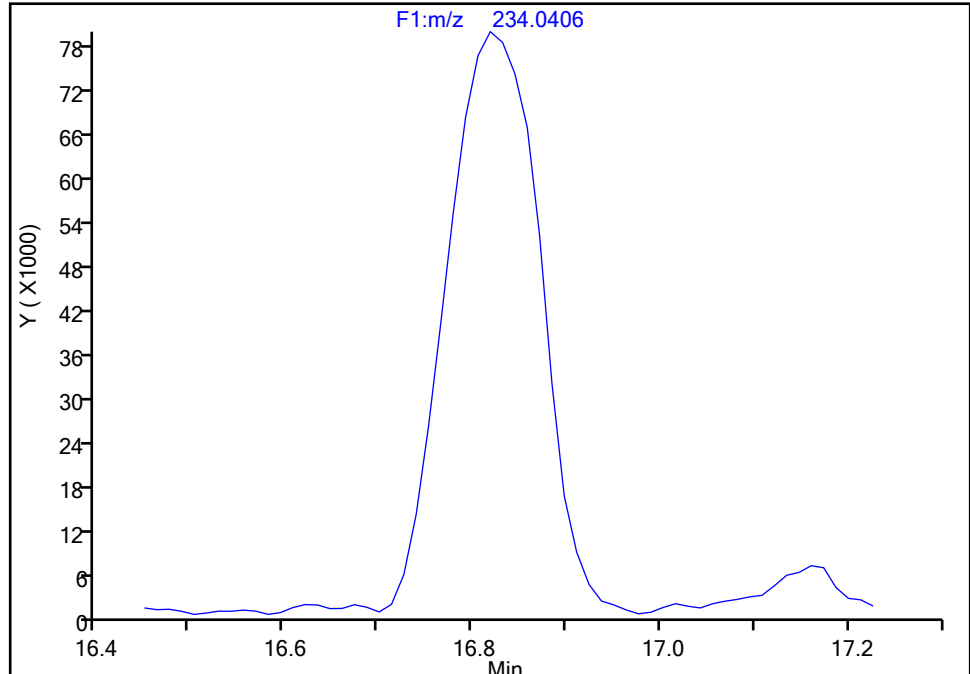
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Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

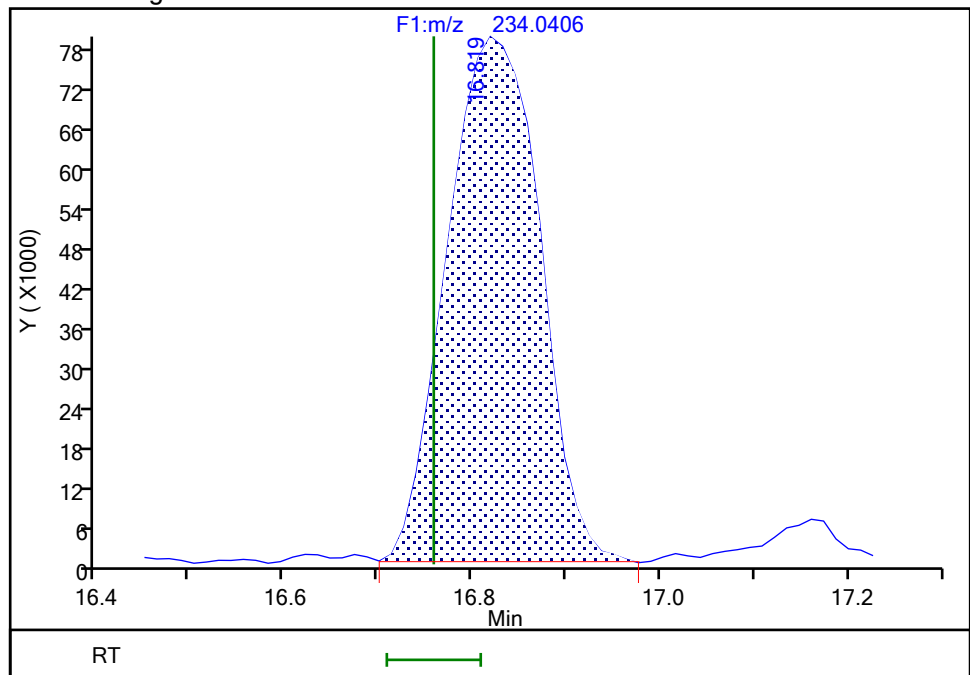
Not Detected
Expected RT: 16.76

Processing Integration Results



RT: 16.82
Area: 543839
Amount: 27.766136
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:49:43 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

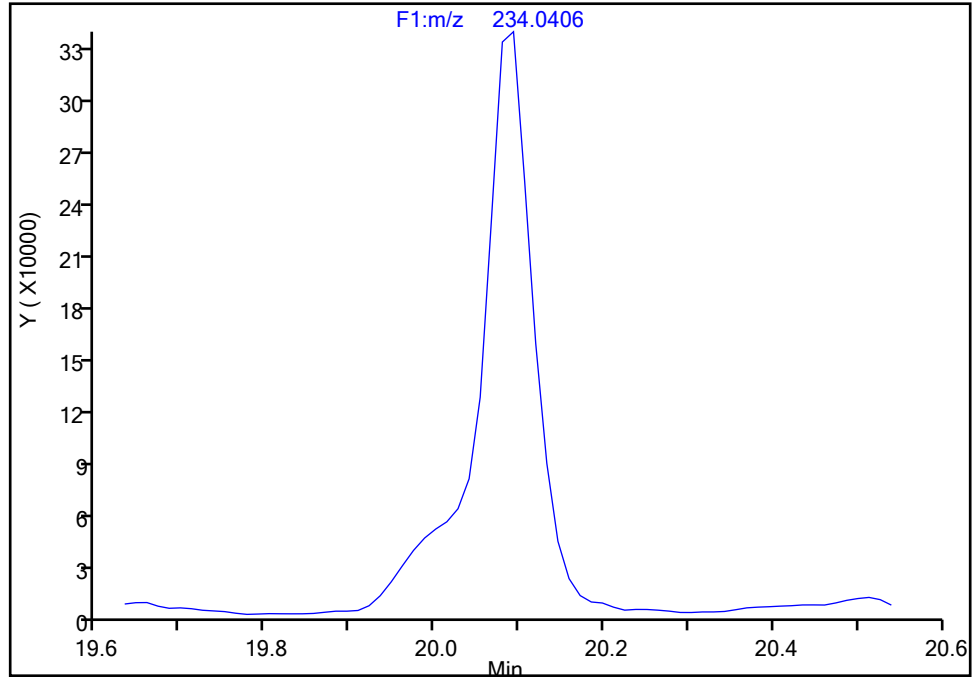
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-15L, CAS: 208263-67-6

Signal: 1

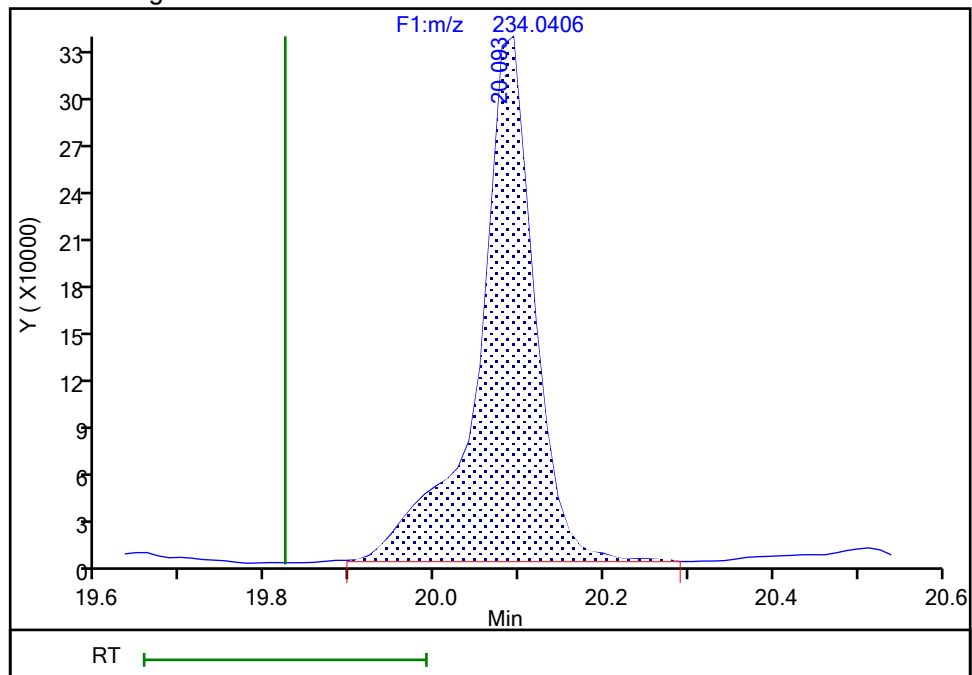
Not Detected
Expected RT: 19.82

Processing Integration Results



RT: 20.09
Area: 1545680
Amount: 33.041964
Amount Units: pg/ul

Manual Integration Results



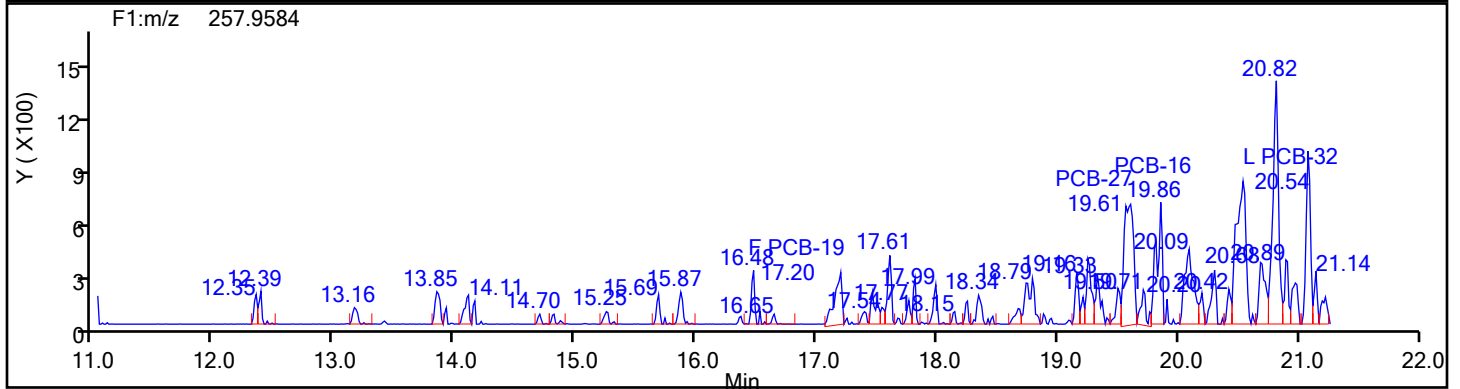
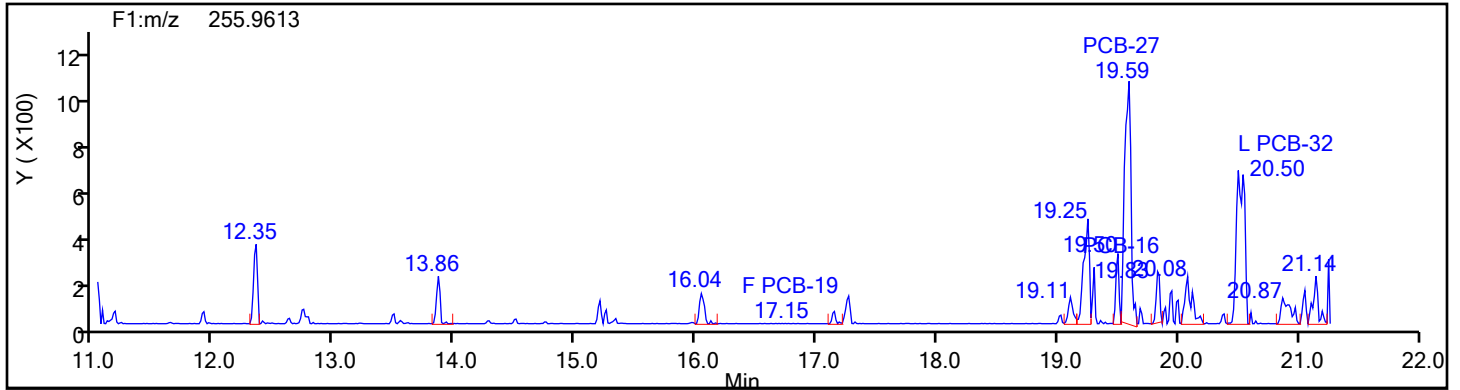
Reviewer: Q9DB, 11-Jun-2024 23:49:46 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

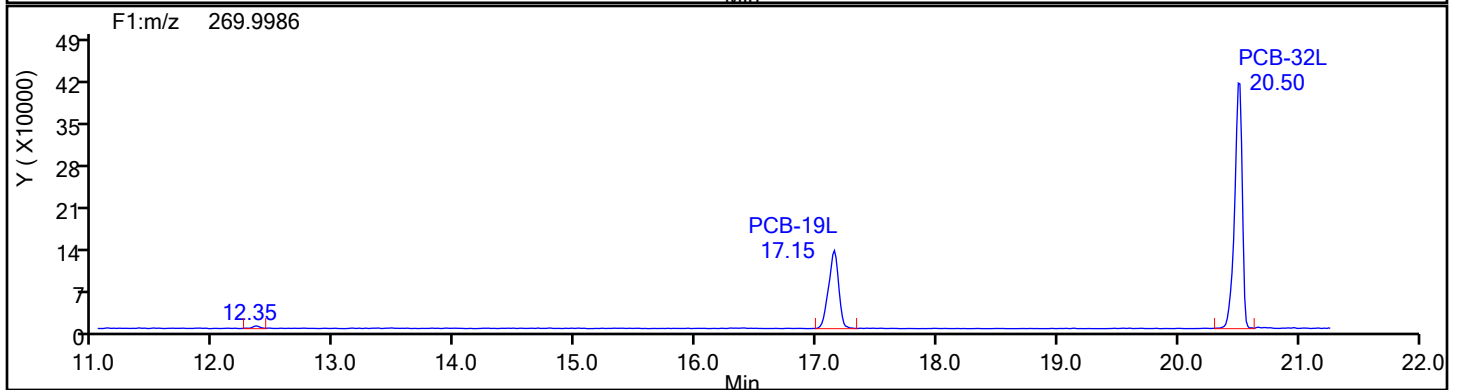
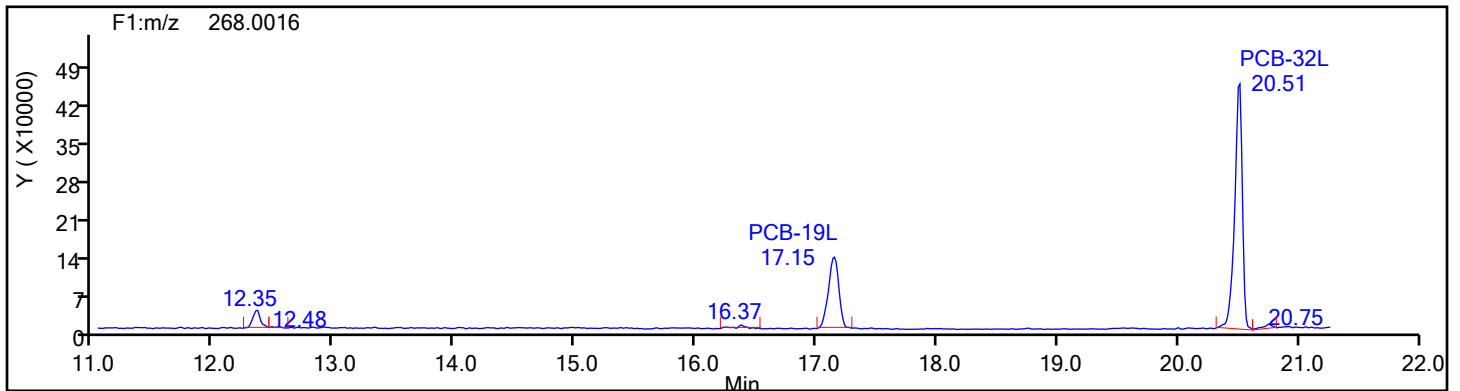
Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

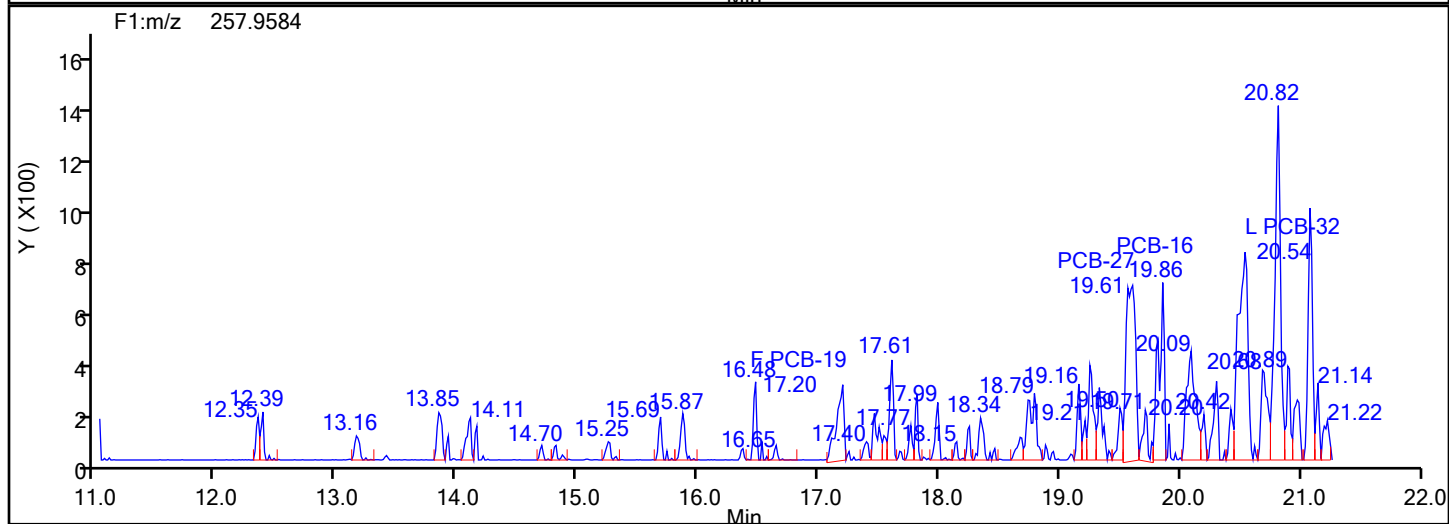
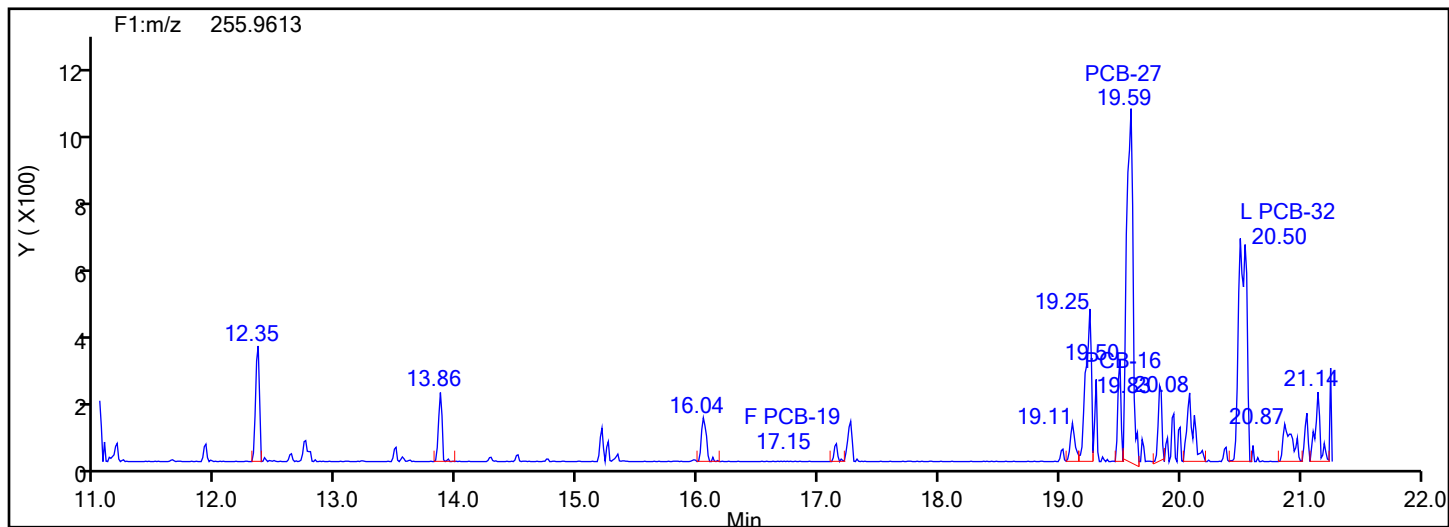
Limit Group: HR - EPA 23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

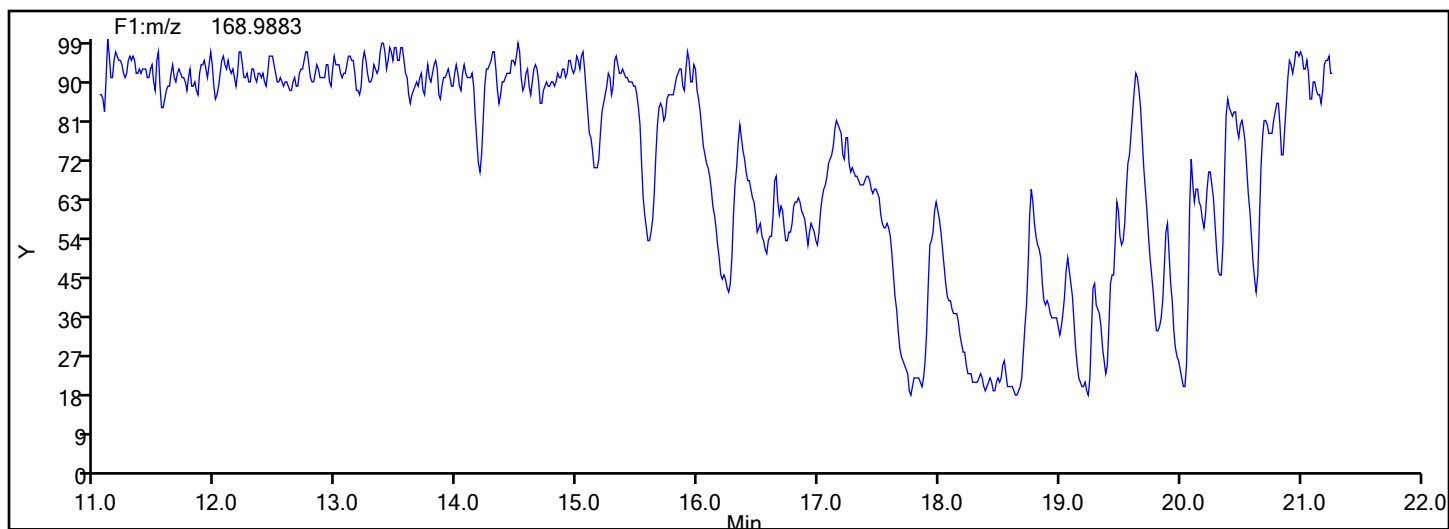
Sample Line#: 13

Column Dia: 0.25 mm

TriPCB F1

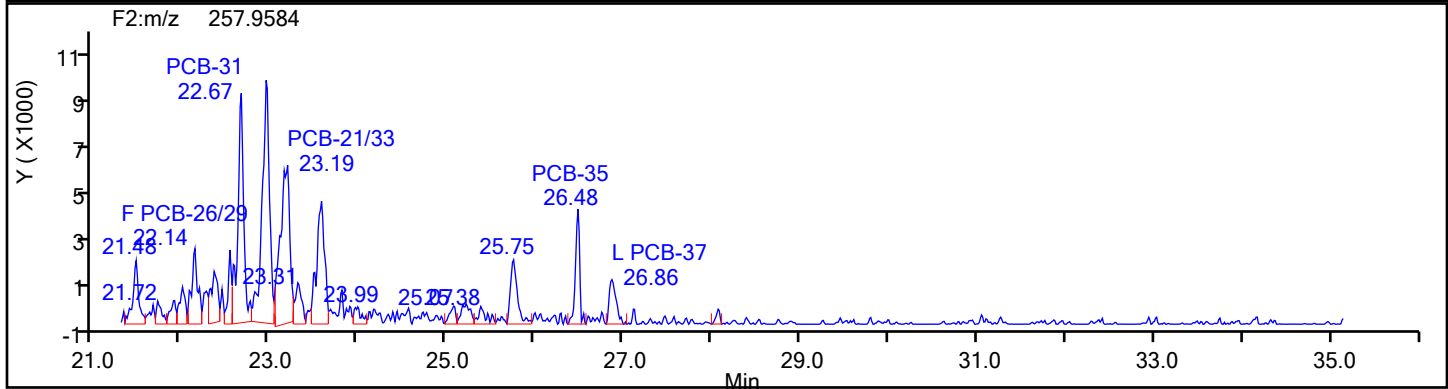
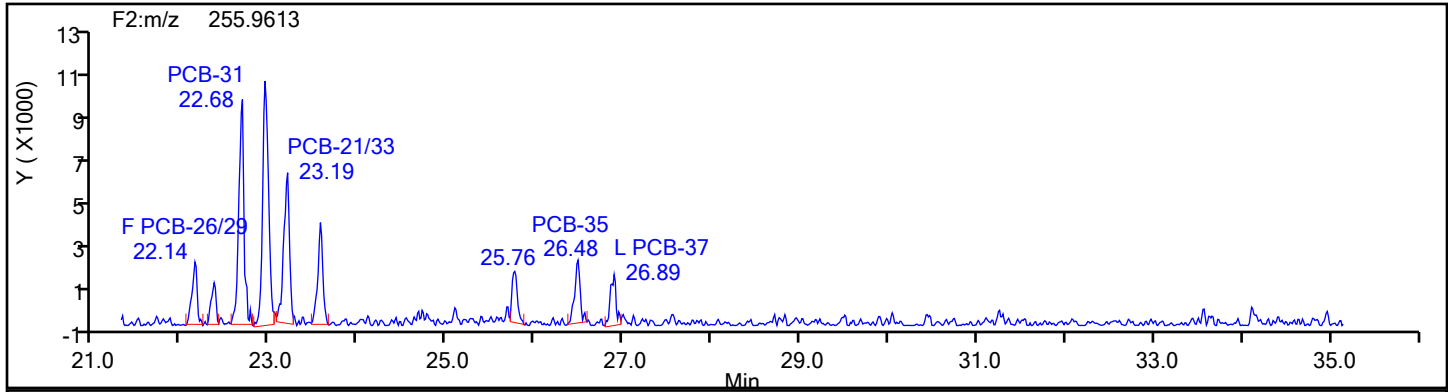


TriPCB F1 Lock Mass

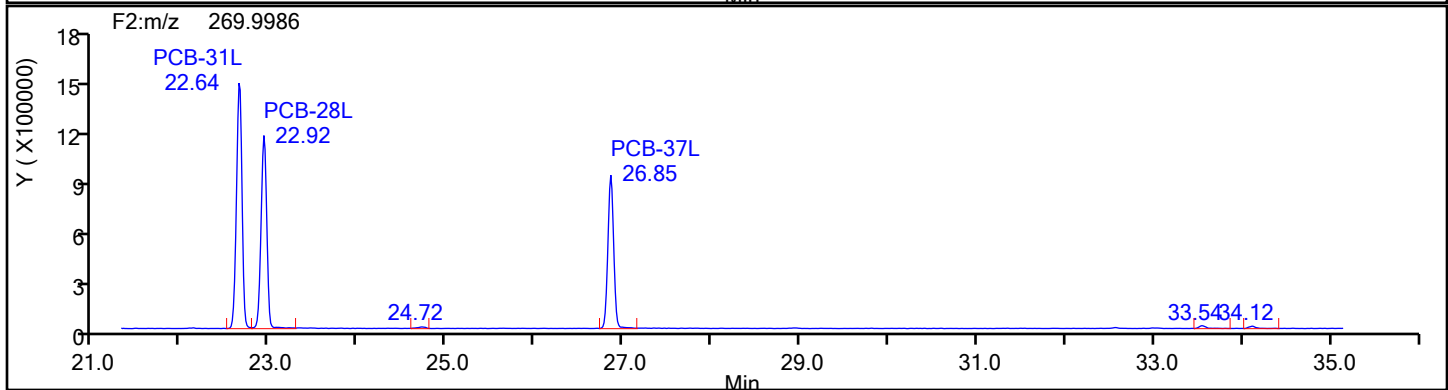
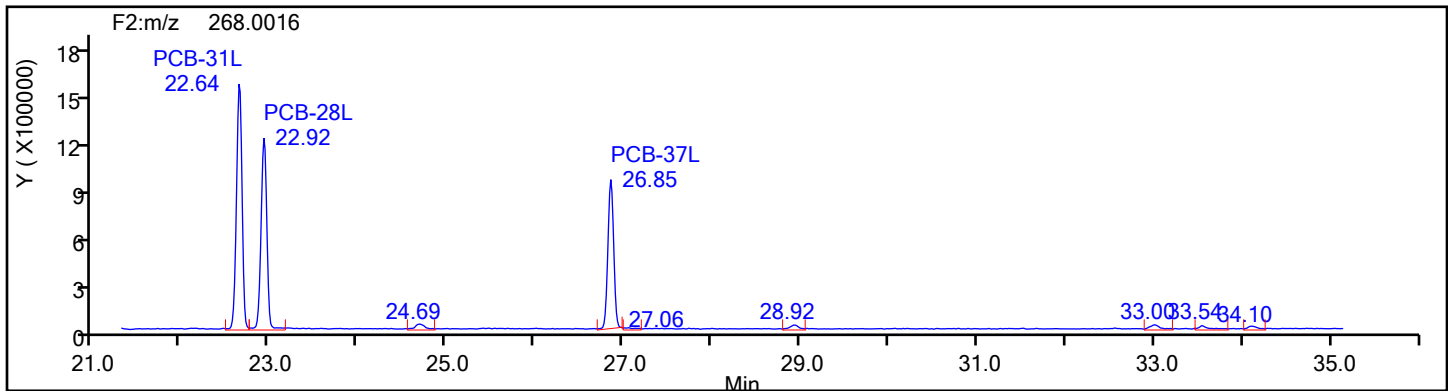


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

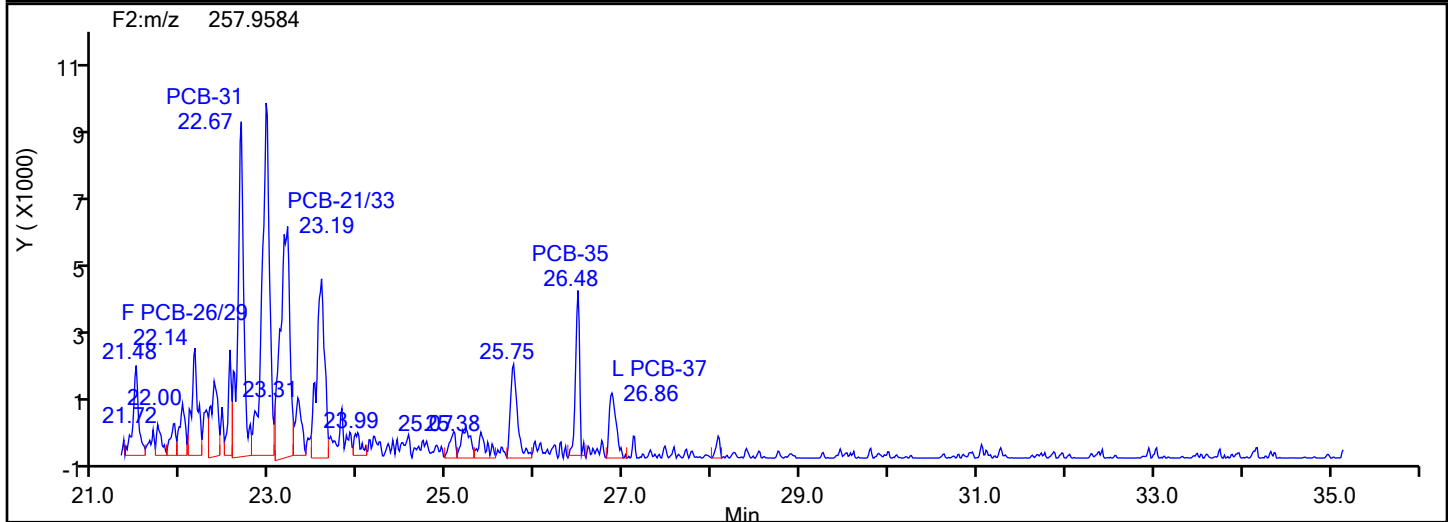
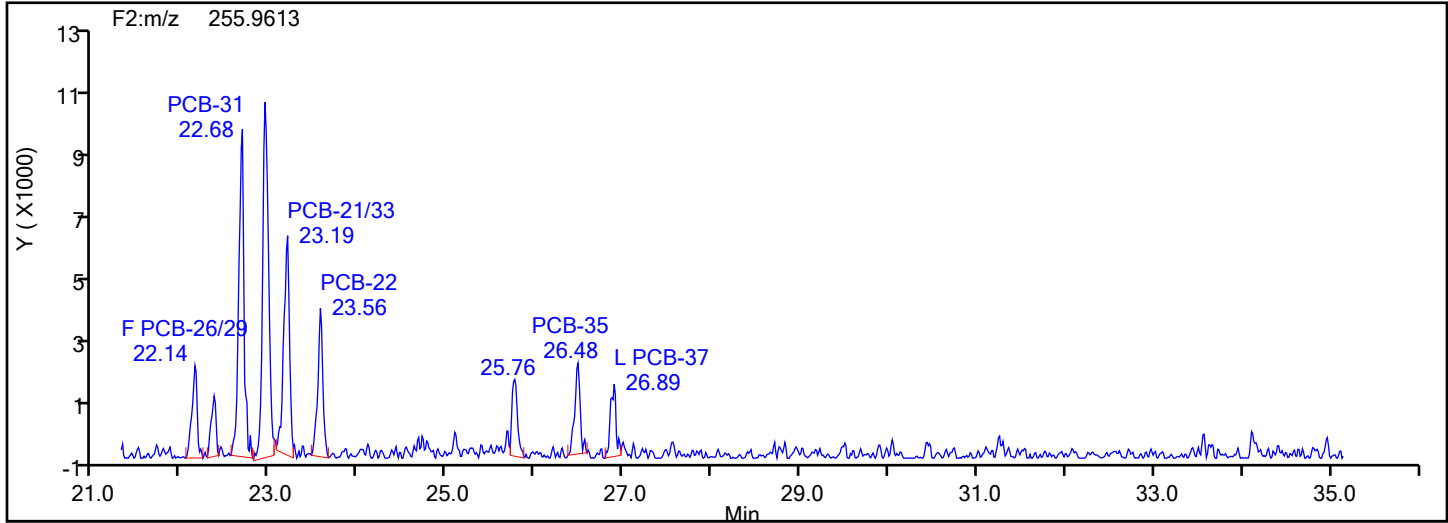


TriPCB F2 Standards

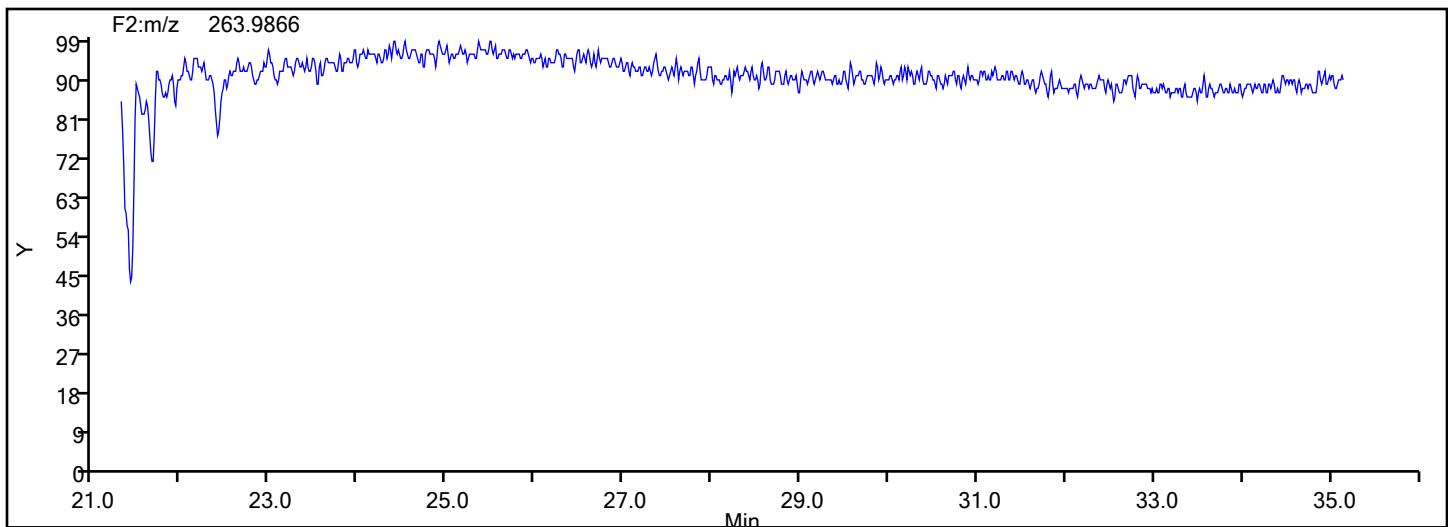


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

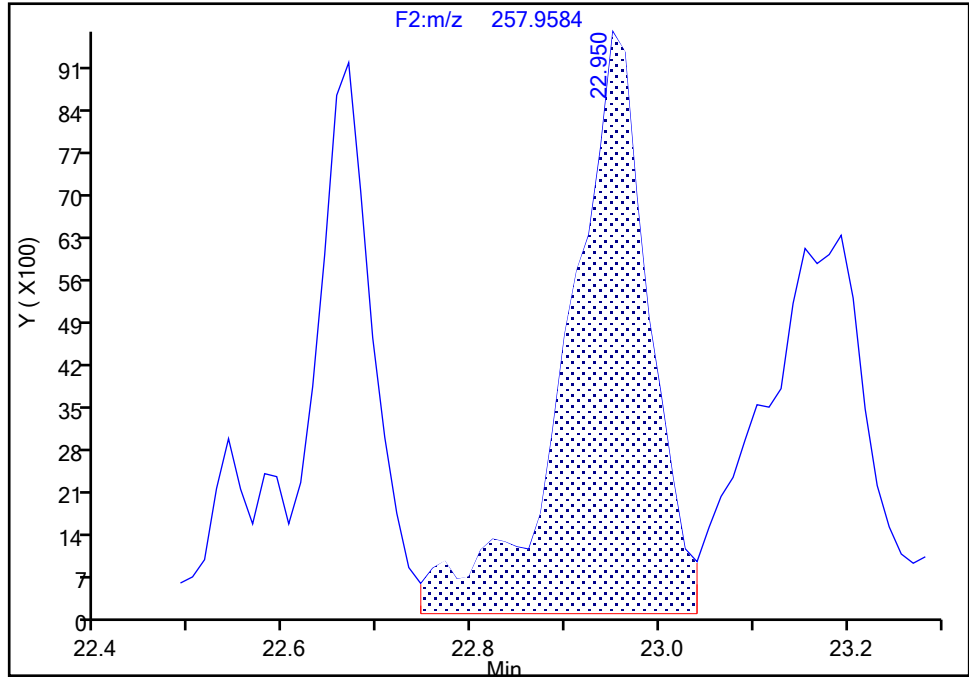
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Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-20/28, CAS: STL01799

Signal: 2

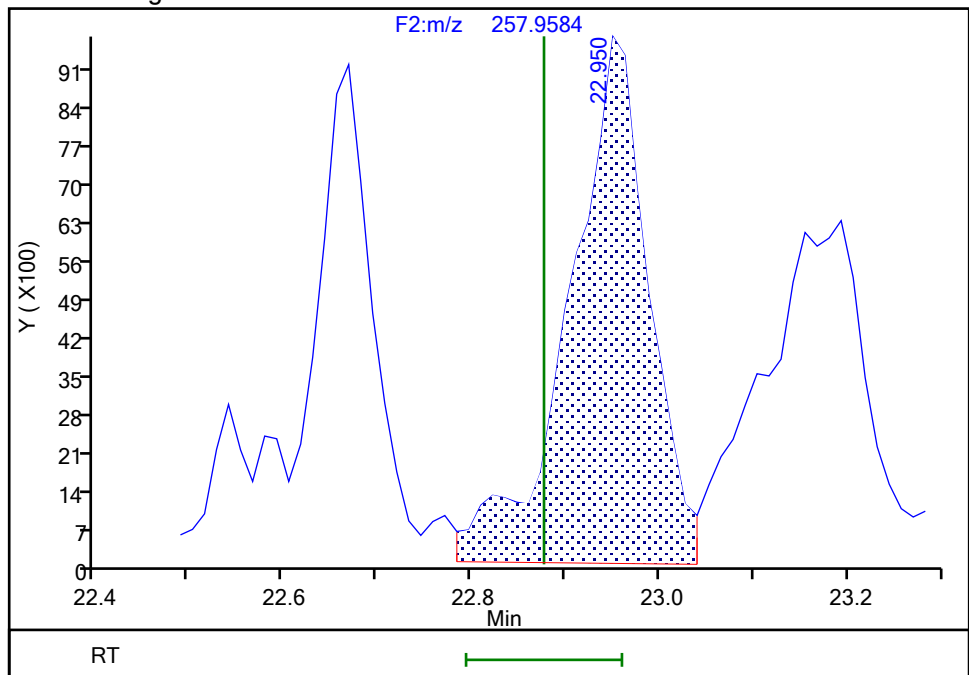
RT: 22.95
Area: 58053
Amount: 1.486936
Amount Units: pg/ul

Processing Integration Results



RT: 22.95
Area: 56234
Amount: 1.058630
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:55:07 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Eurofins Knoxville

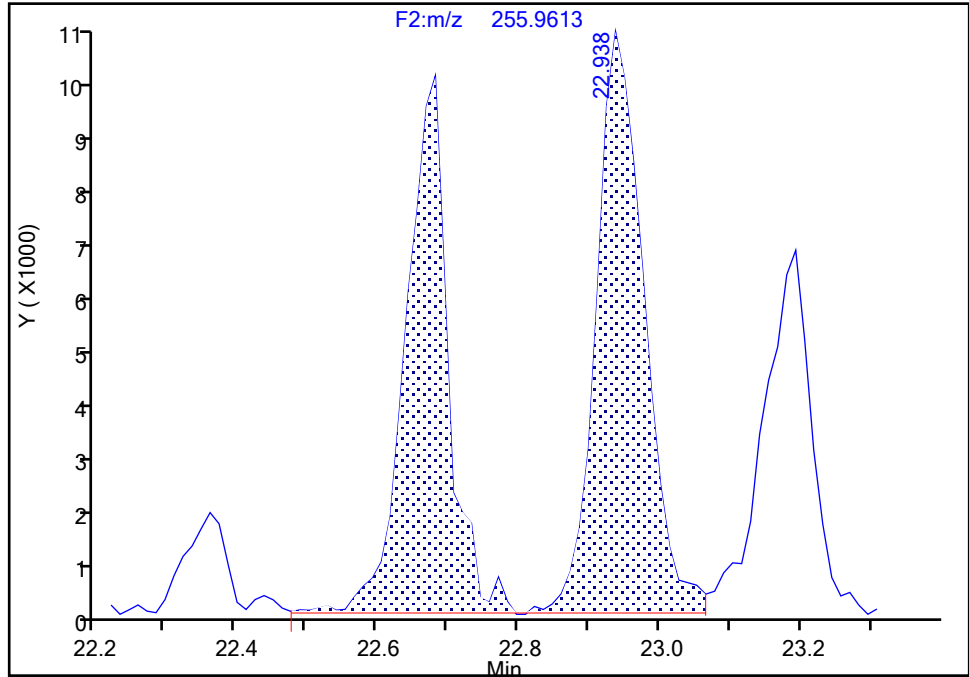
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Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-20/28, CAS: STL01799

Signal: 1

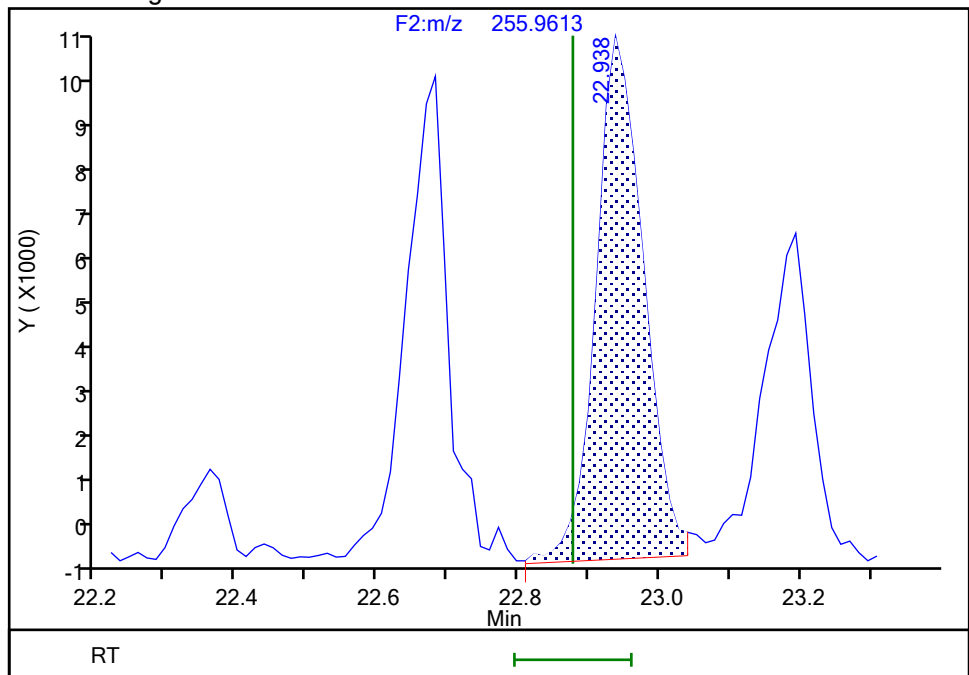
RT: 22.94
Area: 87955
Amount: 1.486936
Amount Units: pg/ul

Processing Integration Results



RT: 22.94
Area: 47717
Amount: 1.058630
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:55:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-0152024
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d

Injection Date: 11-Jun-2024 20:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

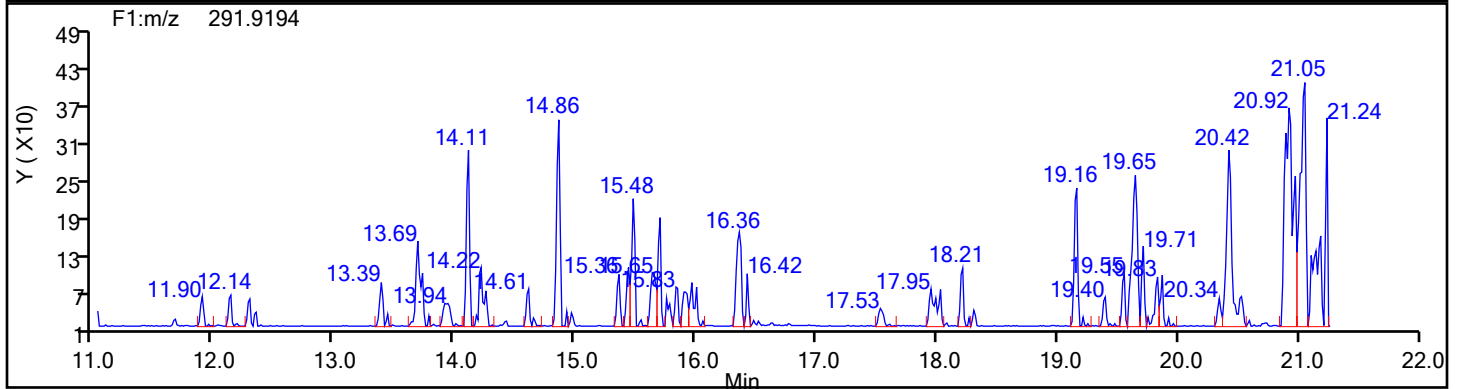
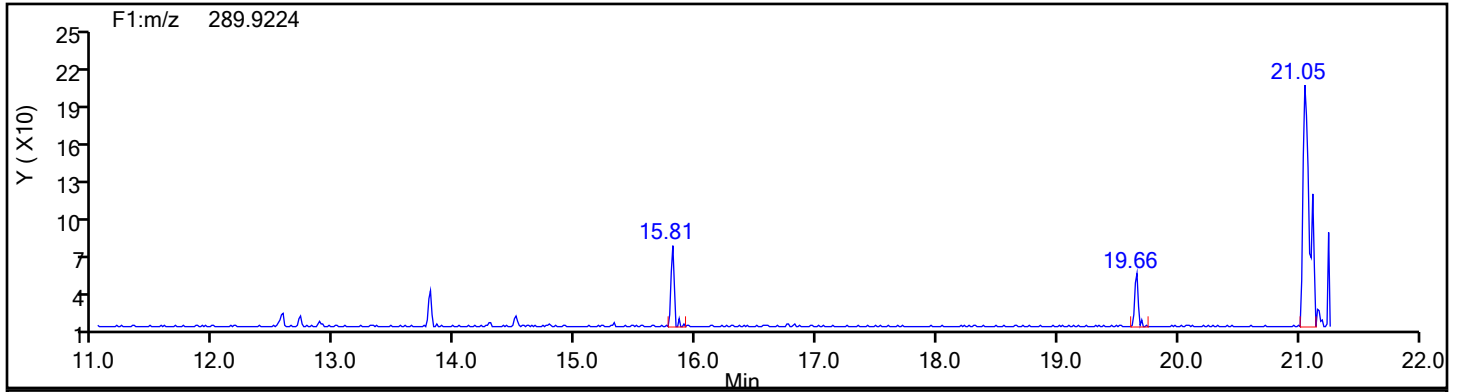
Worklist#: 87502

Sample Line#: 13

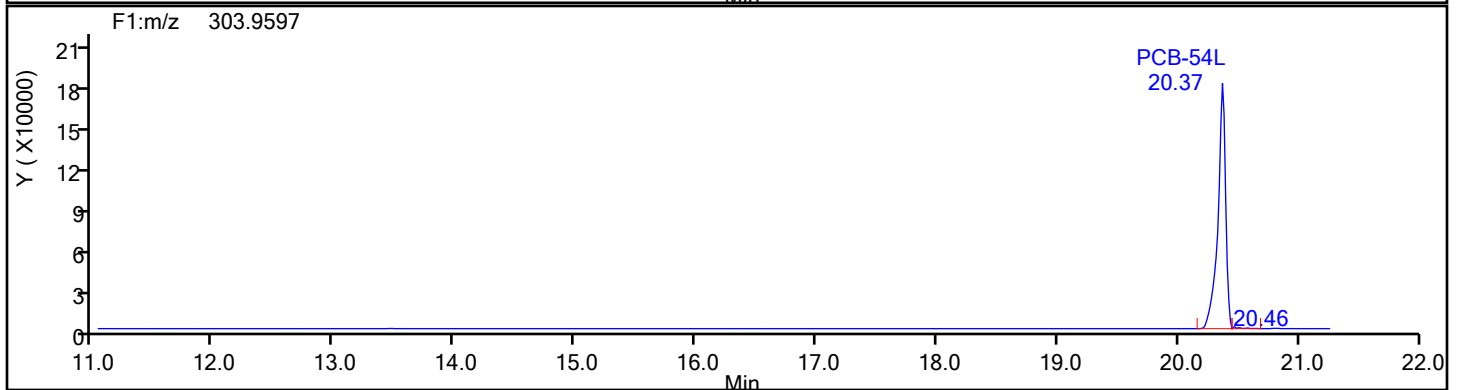
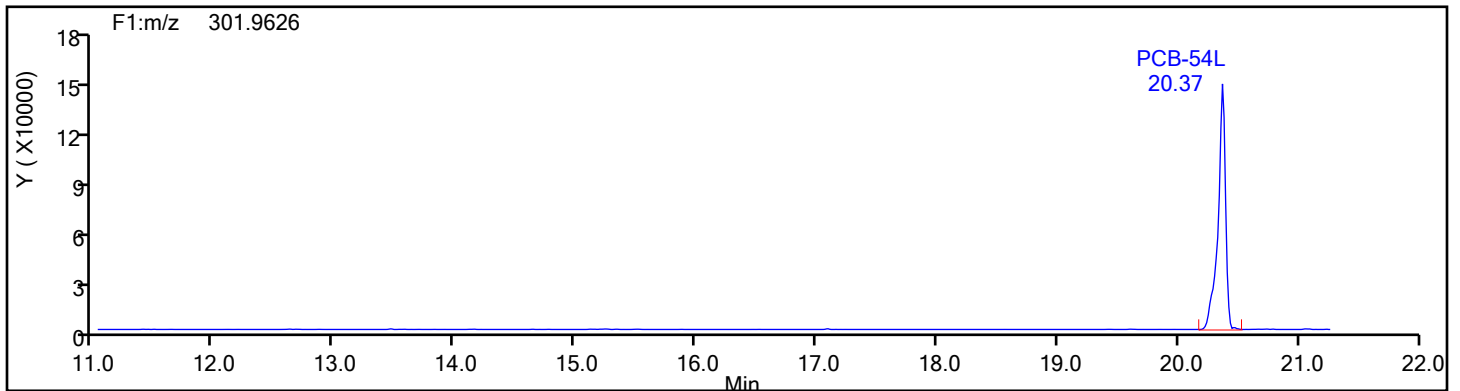
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

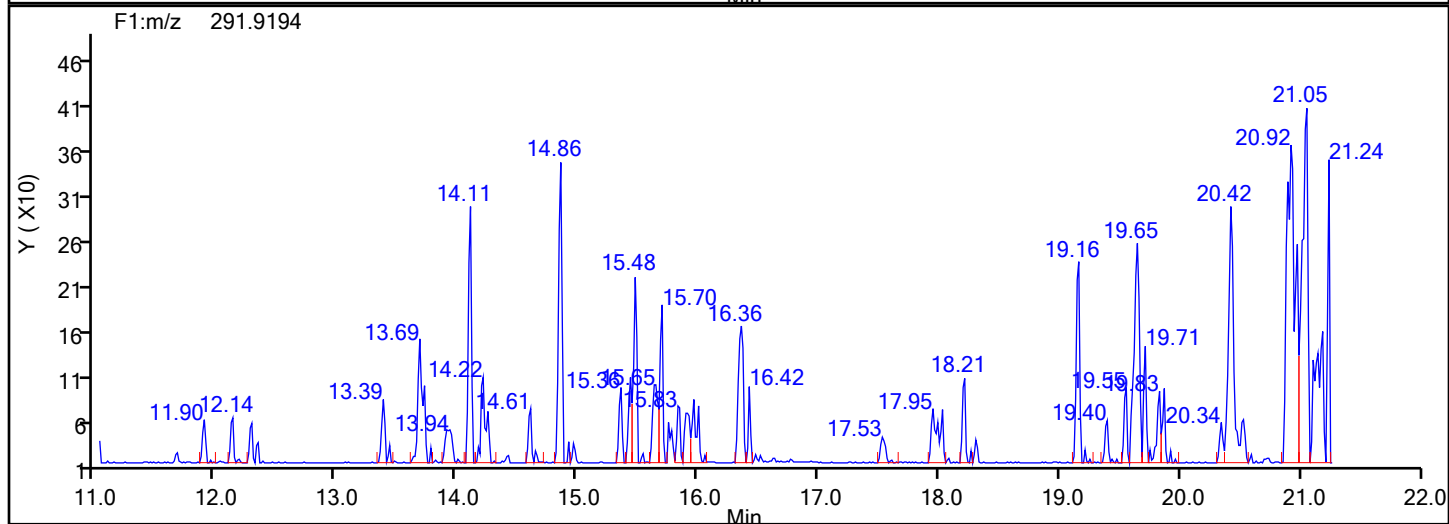
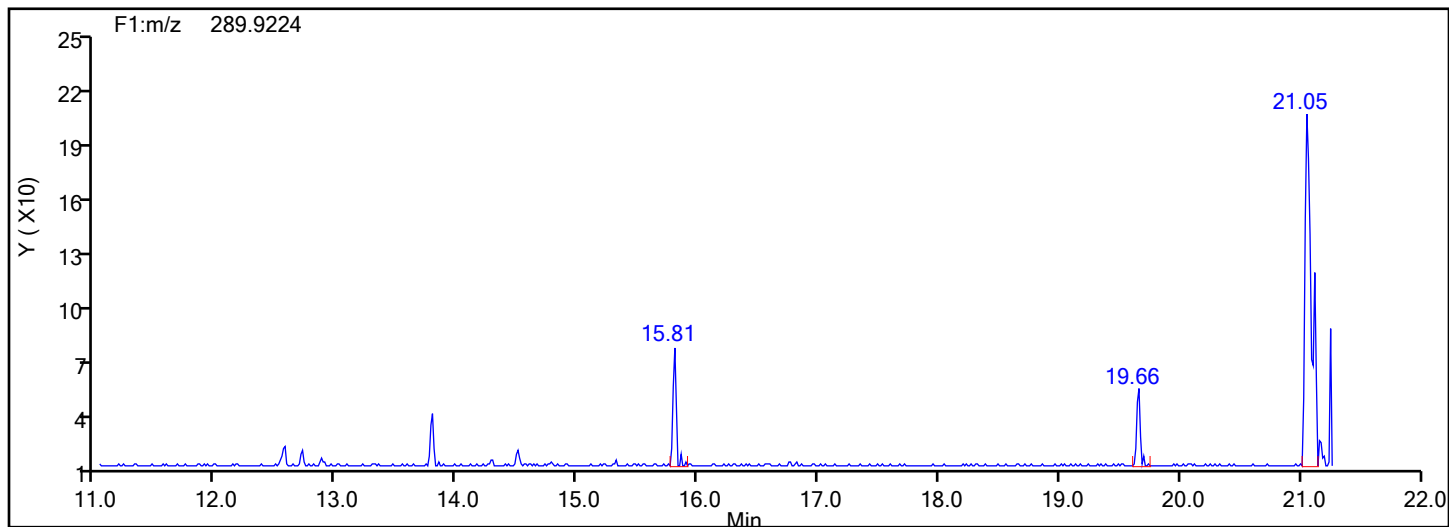


TePCB F1 Standards

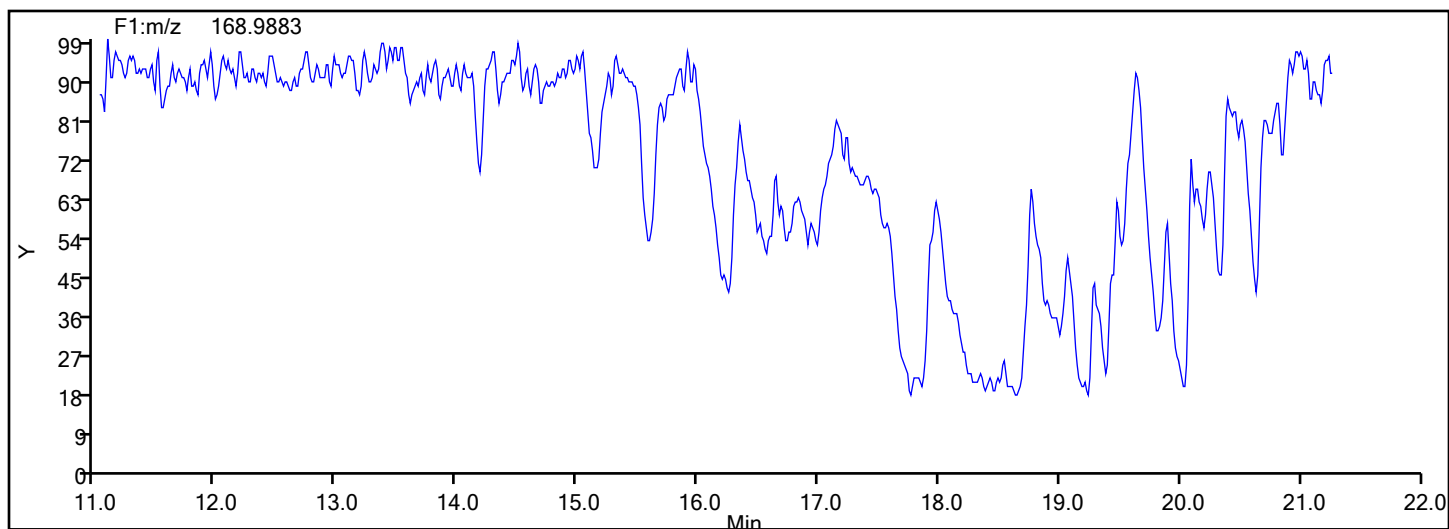


Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d		
Injection Date:	11-Jun-2024 20:09:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23-NO.3 BOILER-RUN 5 COMBINED		
Worklist#:	87502	Sample Line#:	13
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TePCB F1			



TePCB F1 Lock Mass



Eurofins Knoxville

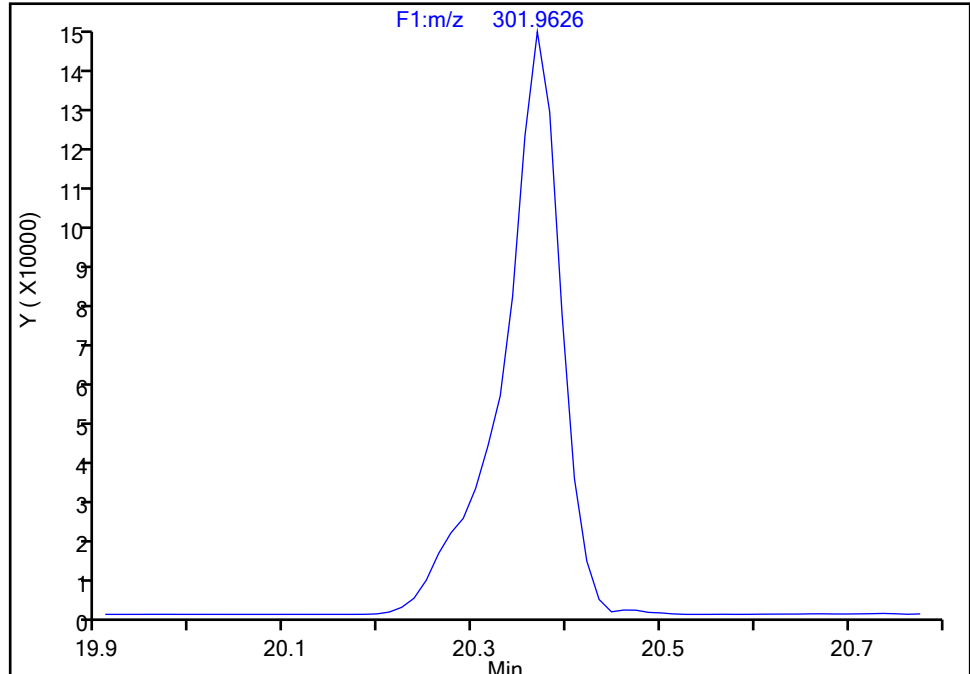
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 1

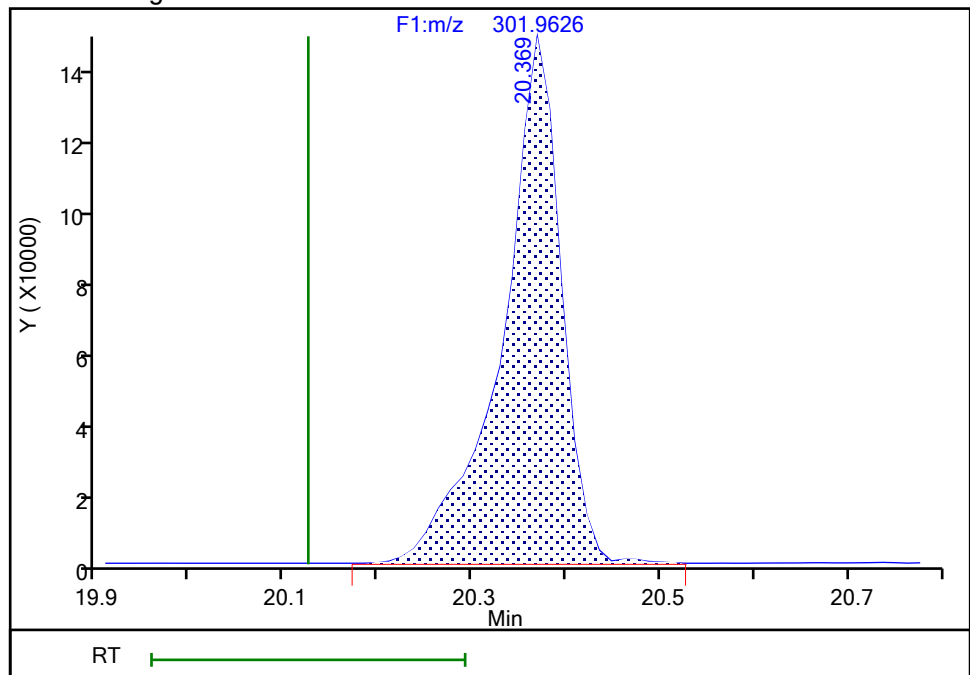
Not Detected
Expected RT: 20.12

Processing Integration Results



RT: 20.37
Area: 628332
Amount: 66.217095
Amount Units: pg/ul

Manual Integration Results



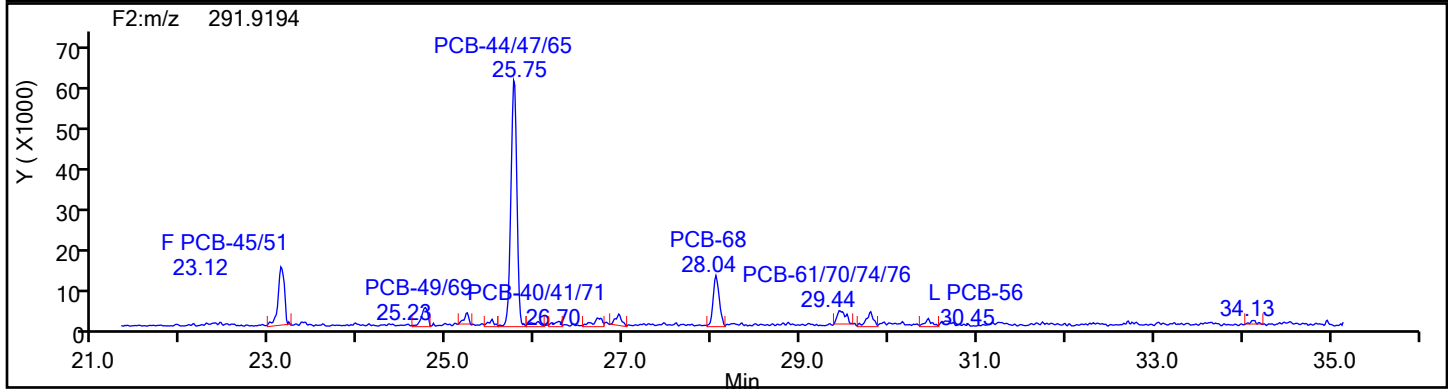
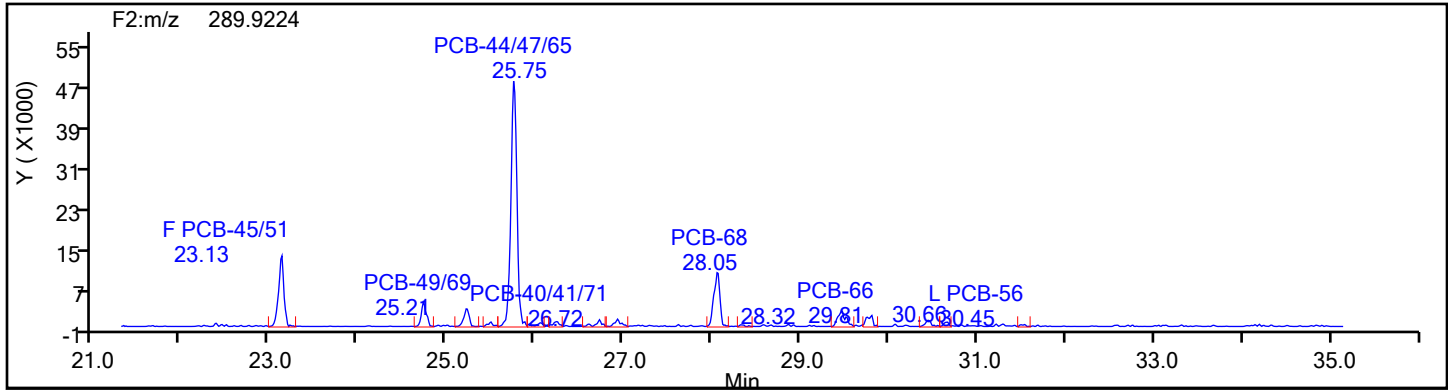
Reviewer: Q9DB, 11-Jun-2024 23:56:20 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

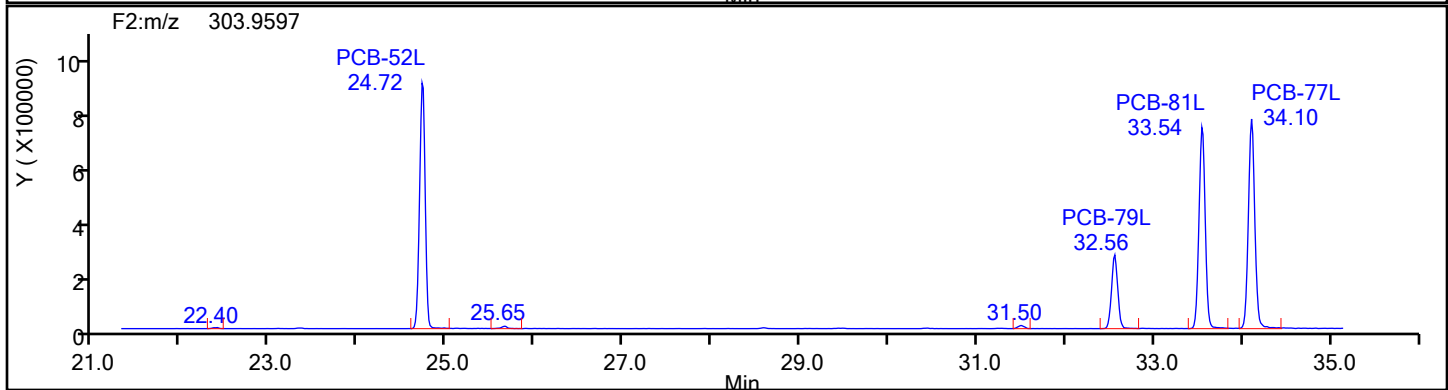
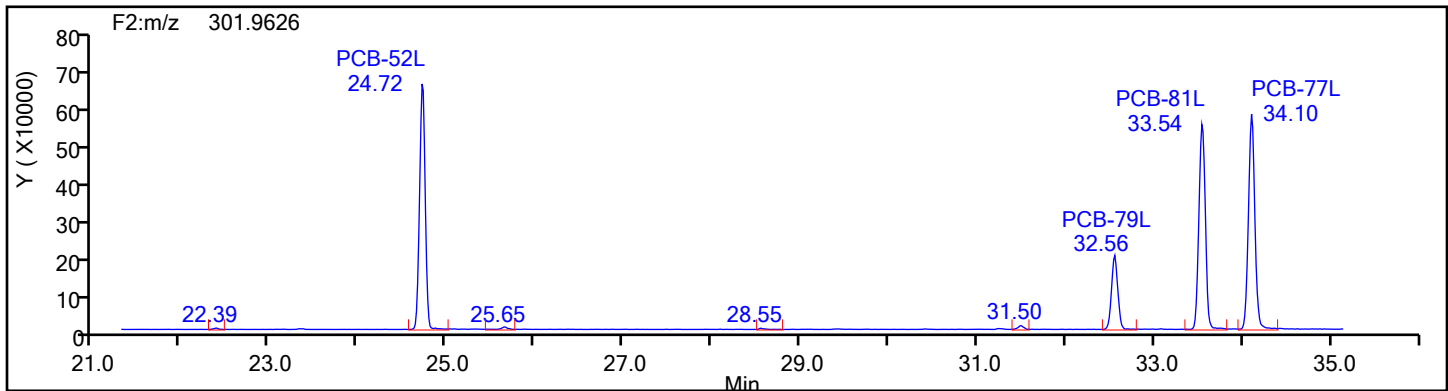
Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

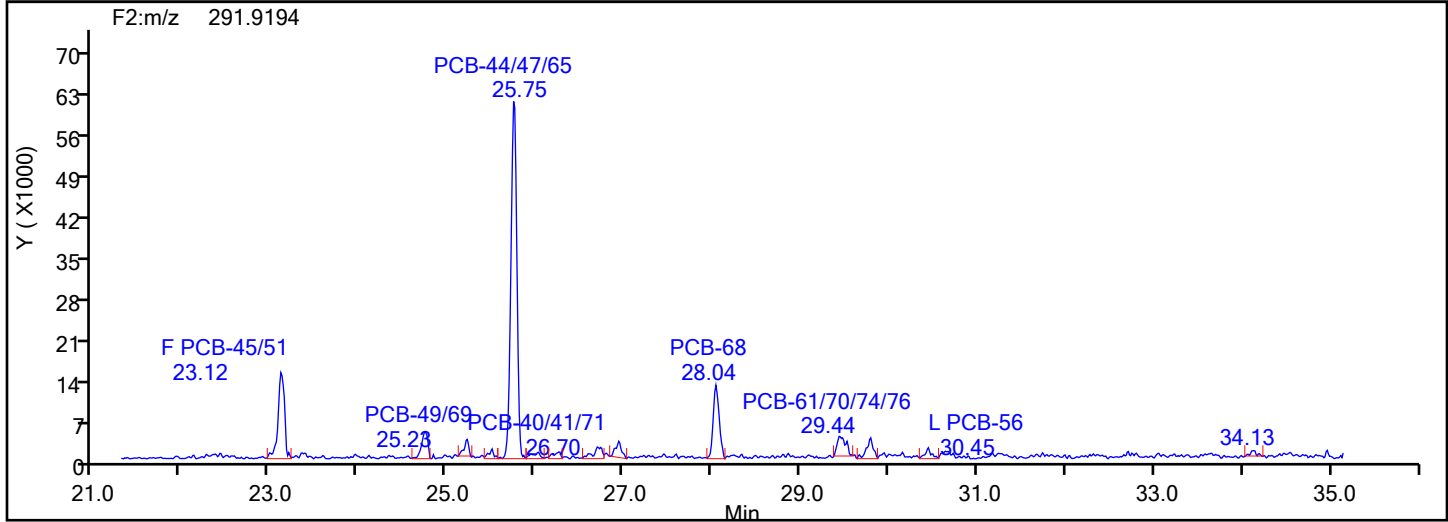
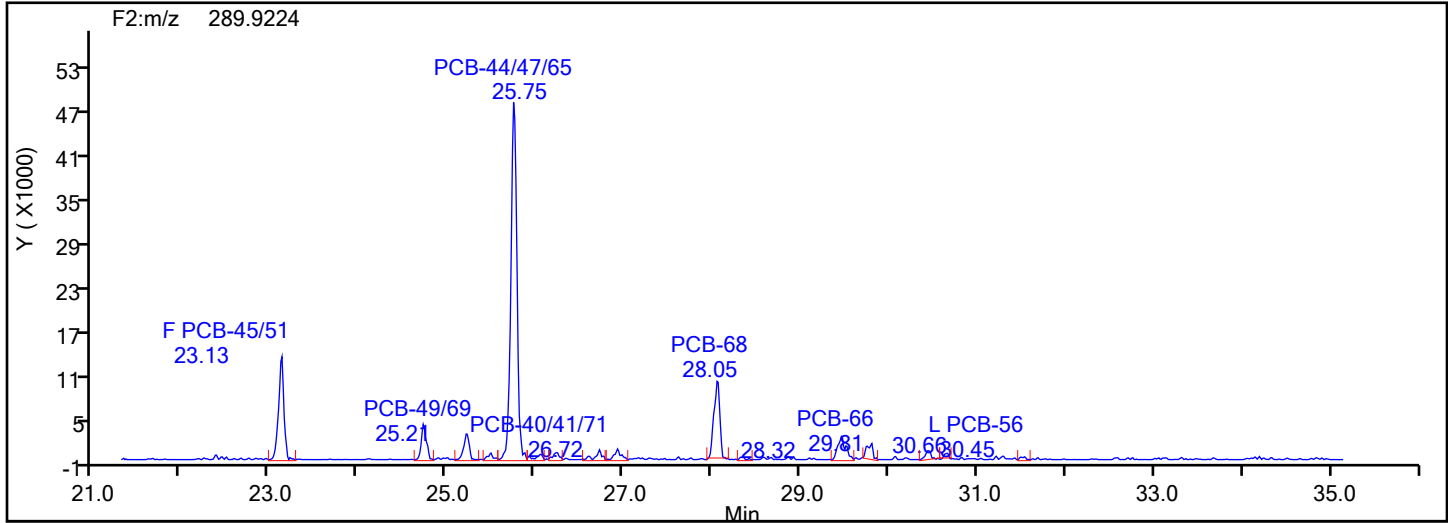


TePCB F2 Standards

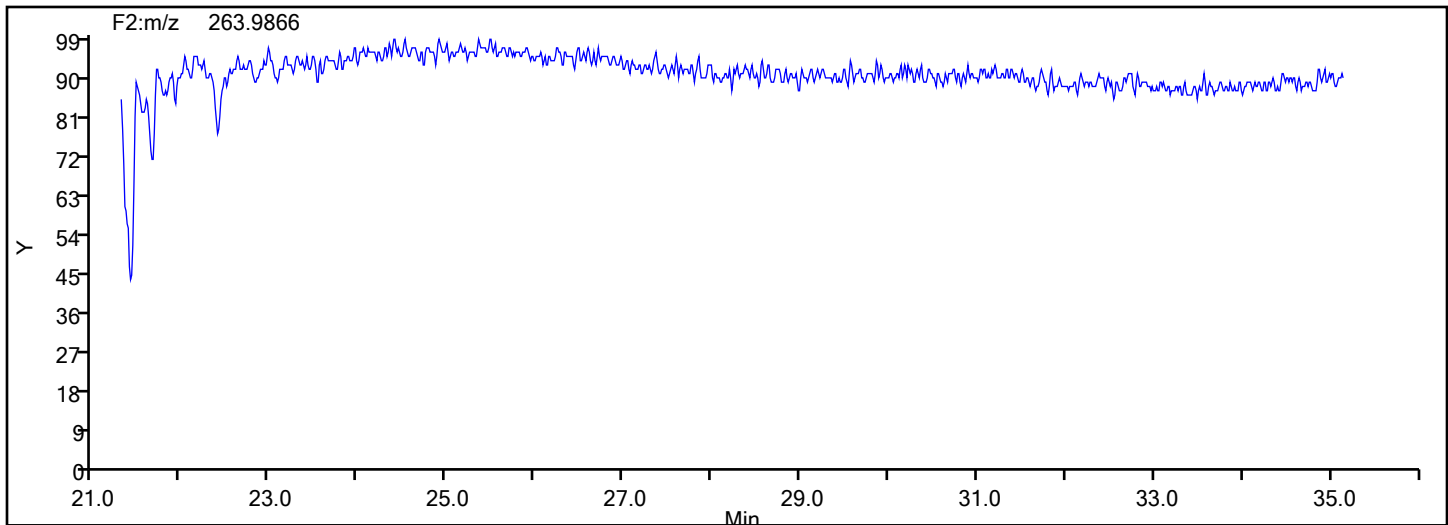


Eurofins Knoxville

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Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



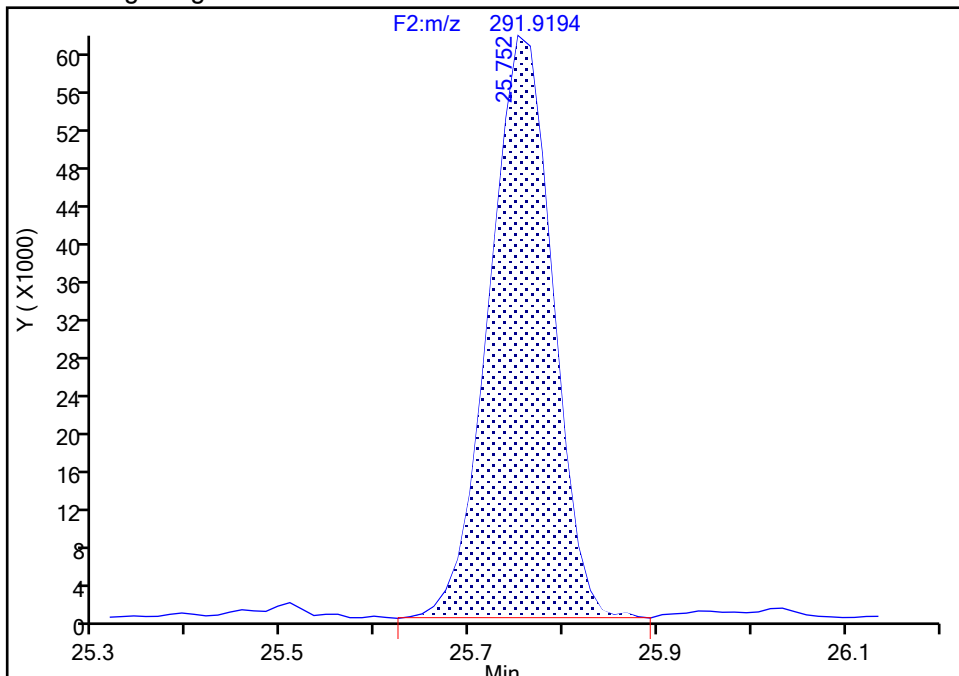
TePCB F2 Lock Mass



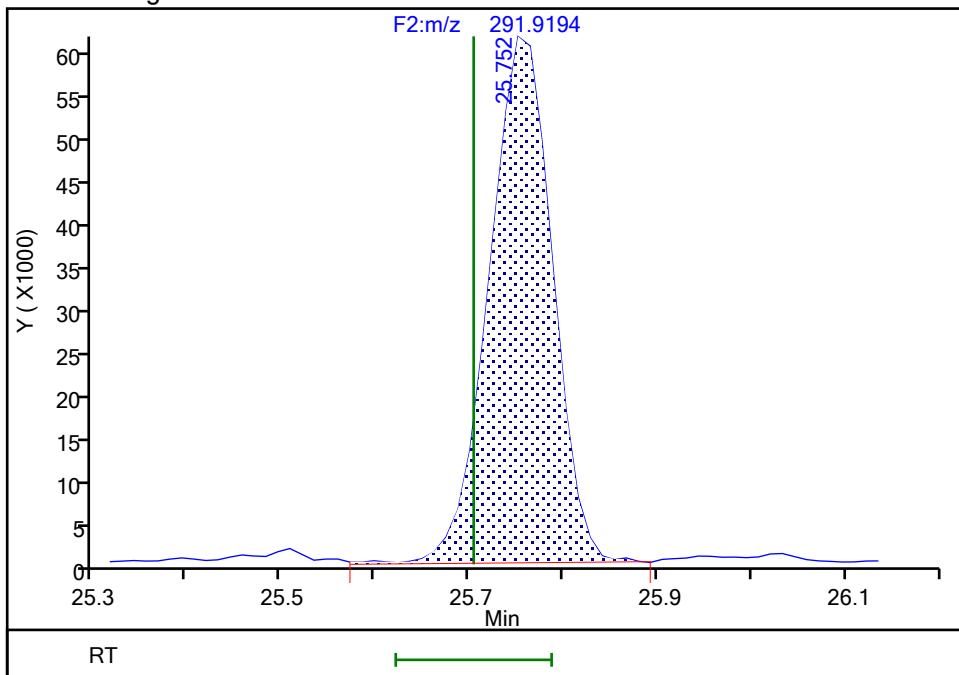
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Injection Date:	11-Jun-2024 20:09:00	Instrument ID:	D2D		
Lims ID:	140-36689-A-5-C	Lab Sample ID:	140-36689-5		
Client ID:	M23-NO.3 BOILER-RUN 5 COMBINED				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl (0.25 mm)	Detector	F2(21.81 :35.54)		

Signal: 2

RT: 25.75
Area: 286360
Amount: 8.305433
Amount Units: pg/ul



RT: 25.75
Area: 287179
Amount: 8.318616
Amount Units: pg/ul



Eurofins Knoxville

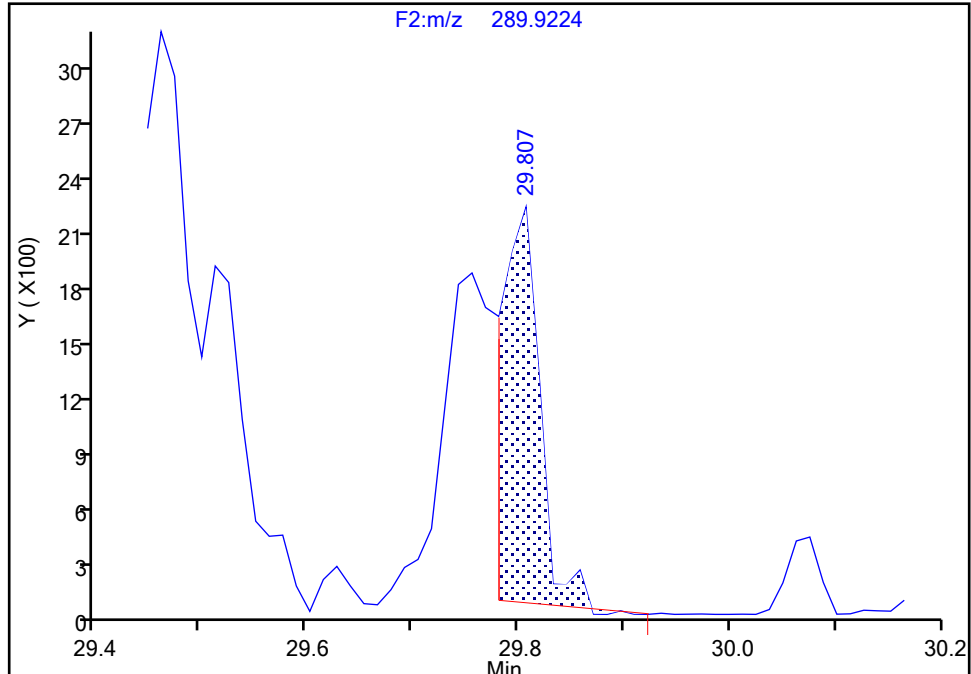
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Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-66, CAS: 32598-10-0

Signal: 1

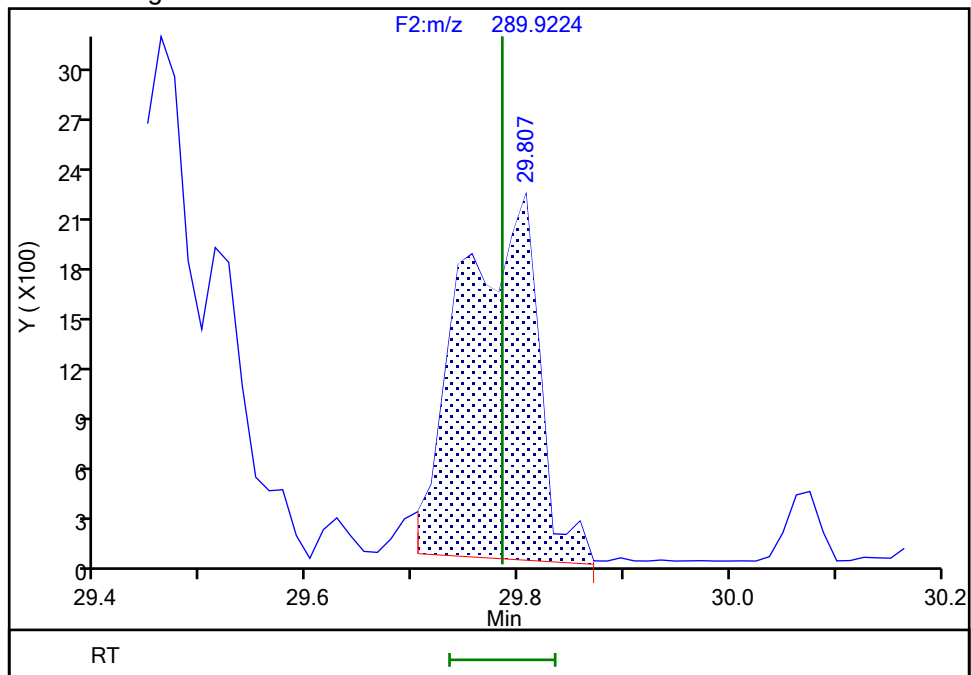
RT: 29.81
Area: 4818
Amount: 0.285559
Amount Units: pg/ul

Processing Integration Results



RT: 29.81
Area: 10885
Amount: 0.361084
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:58:34 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d

Injection Date: 11-Jun-2024 20:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

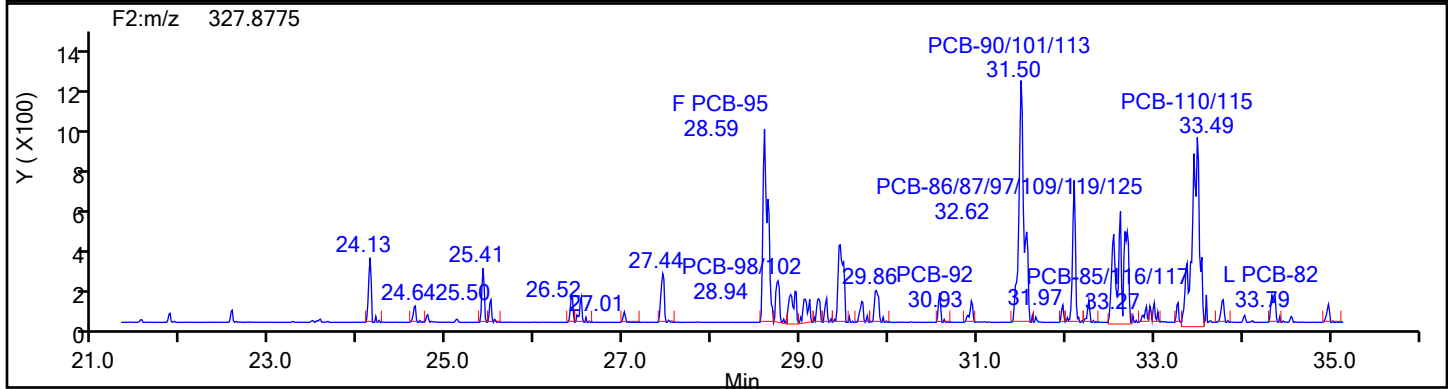
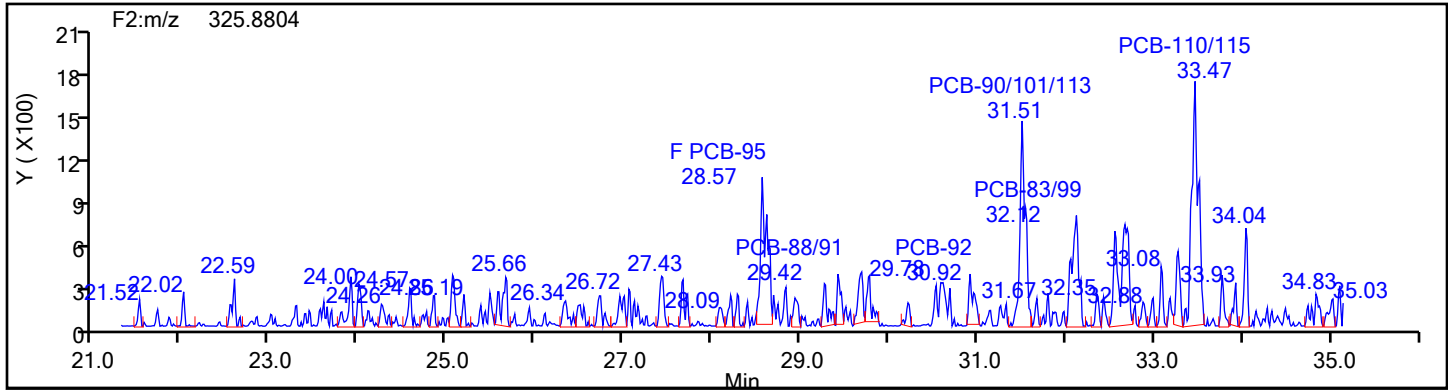
Worklist#: 87502

Sample Line#: 13

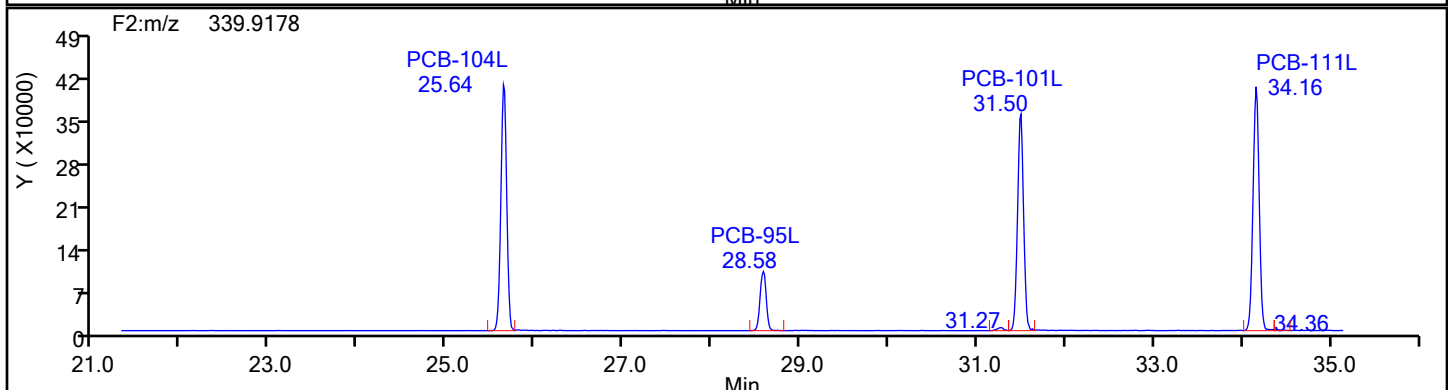
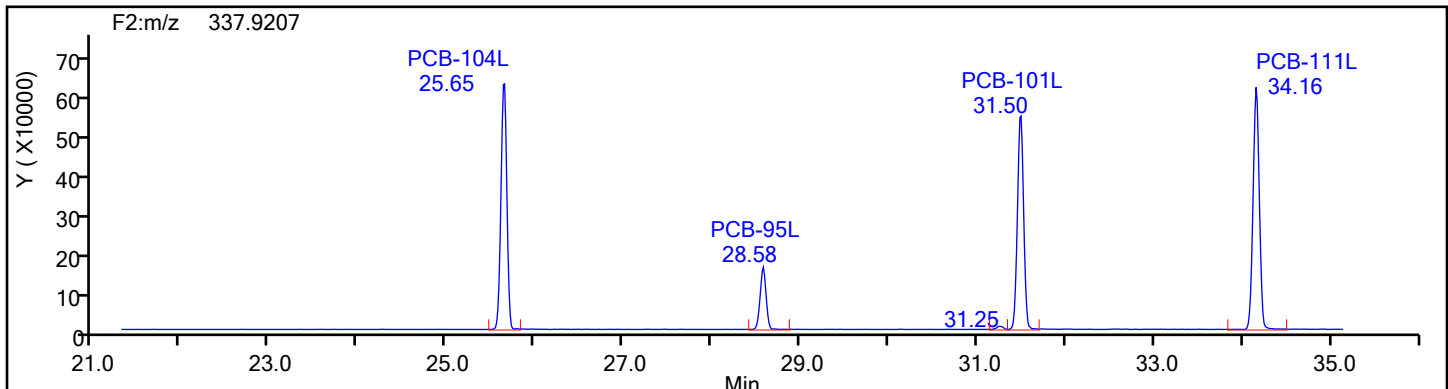
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



Eurofins Knoxville

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Injection Date: 11-Jun-2024 20:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

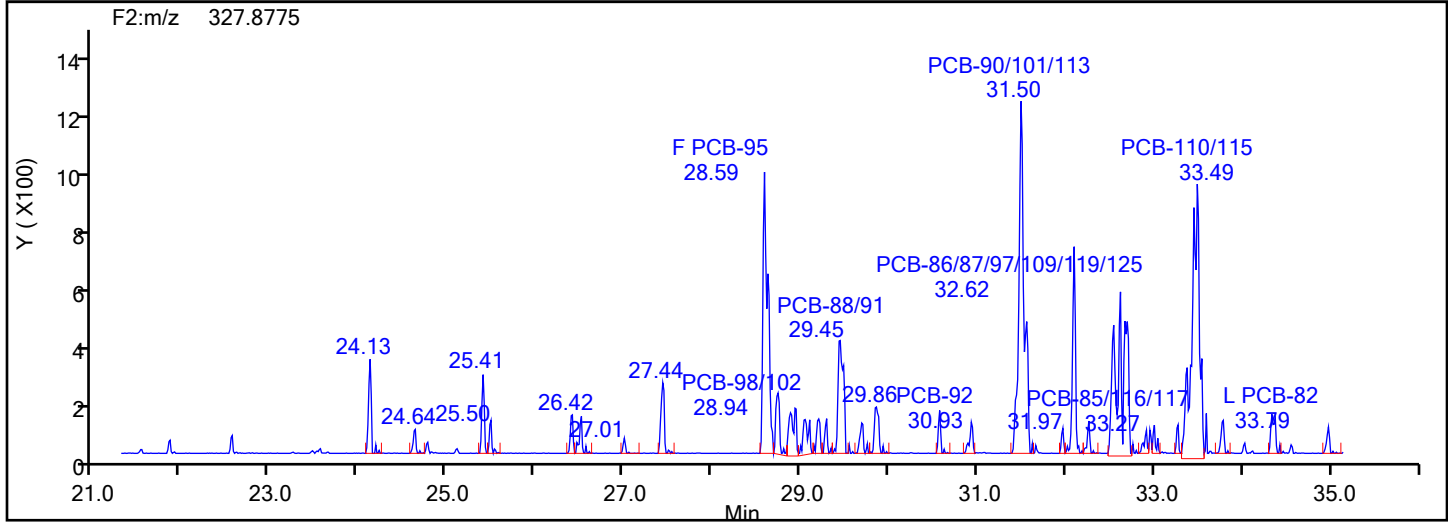
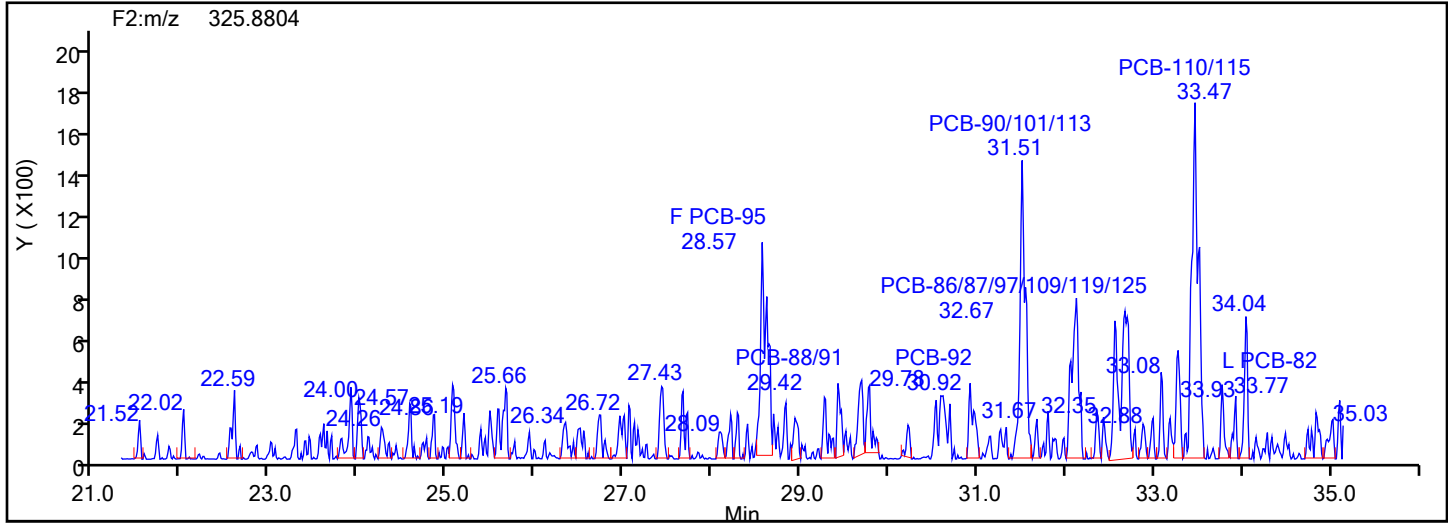
Worklist#: 87502

Sample Line#: 13

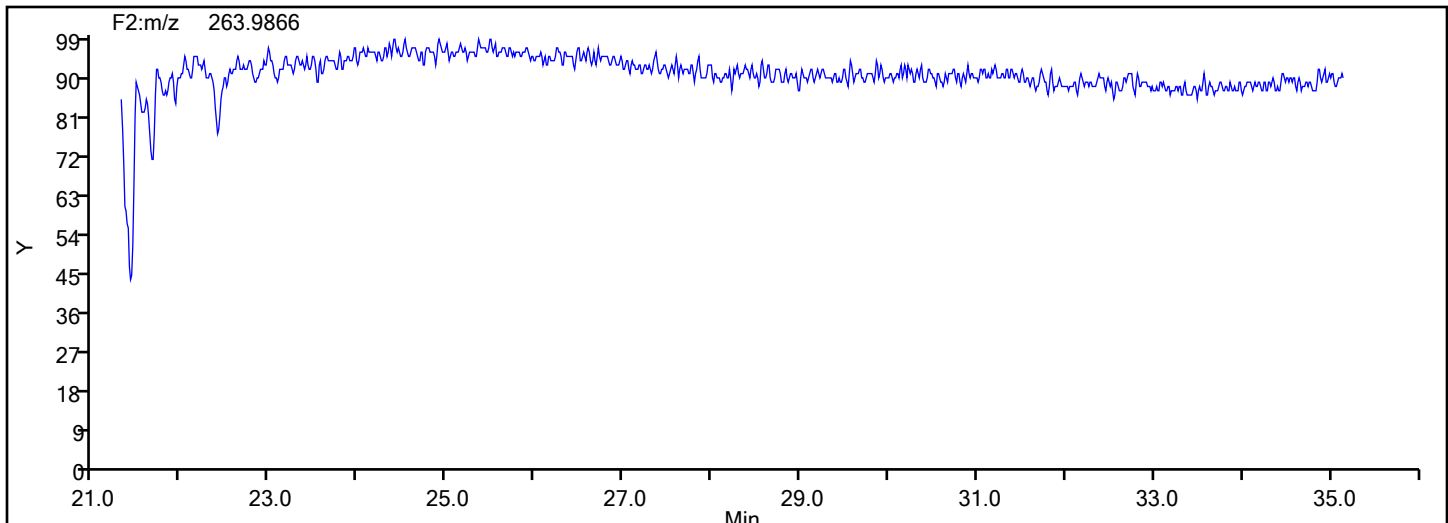
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d

Injection Date: 11-Jun-2024 20:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

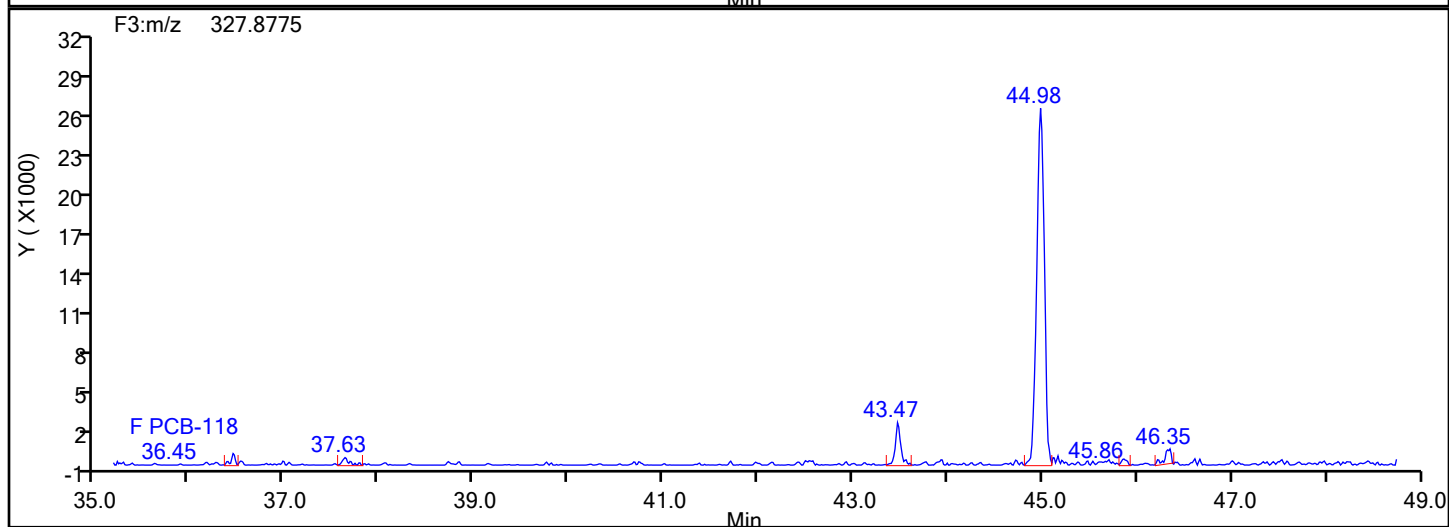
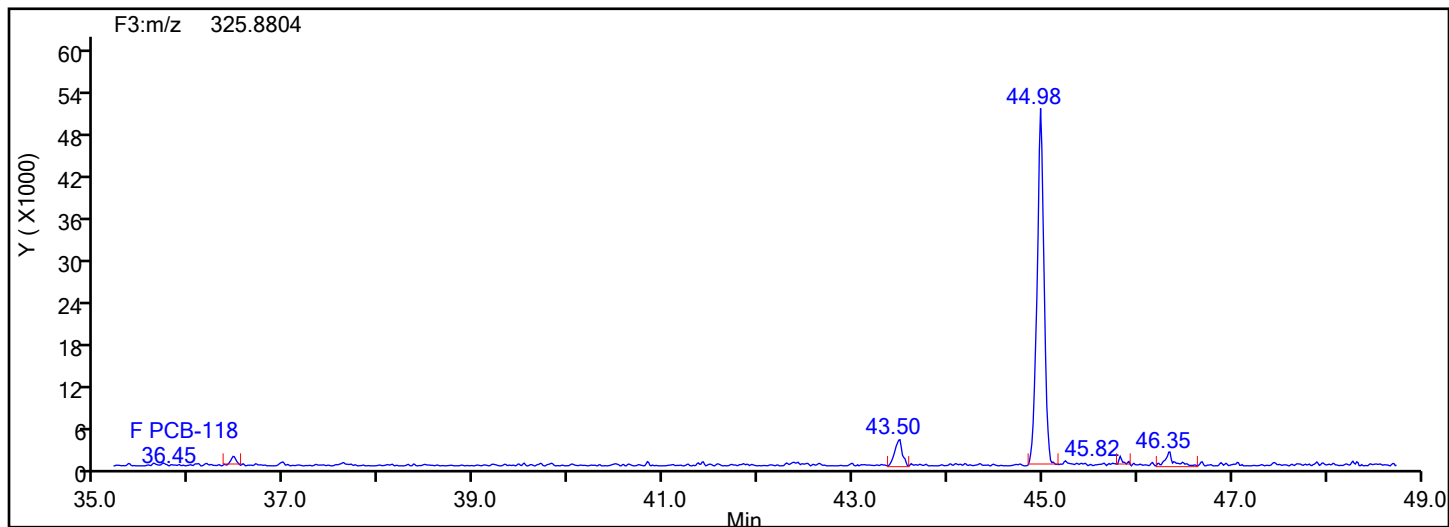
Worklist#: 87502

Sample Line#: 13

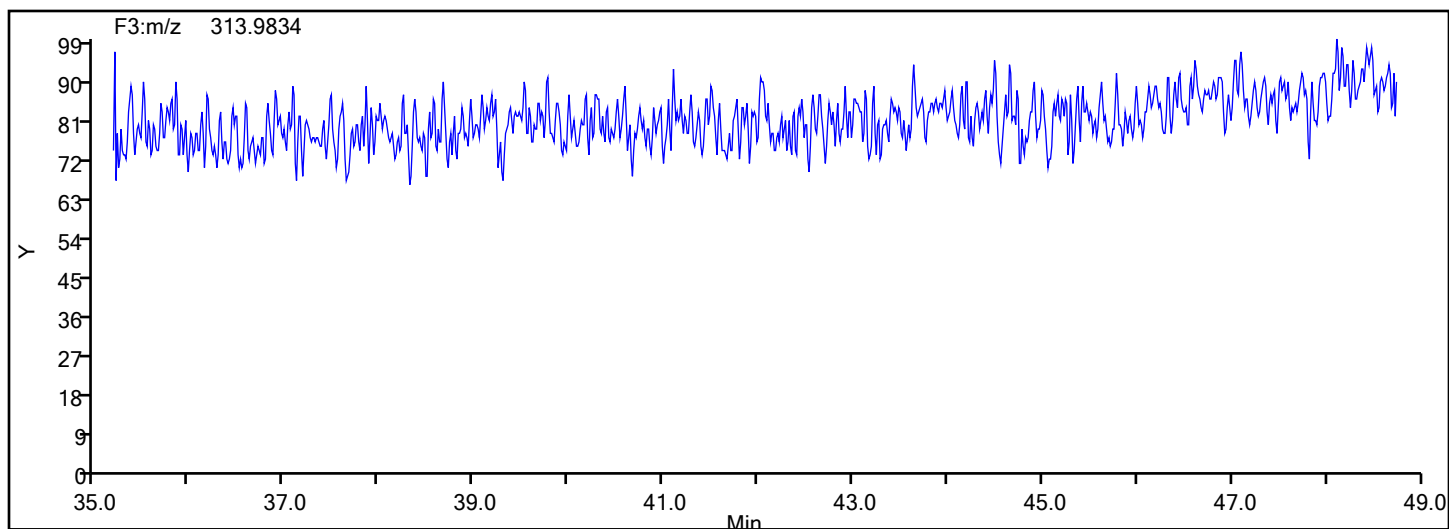
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

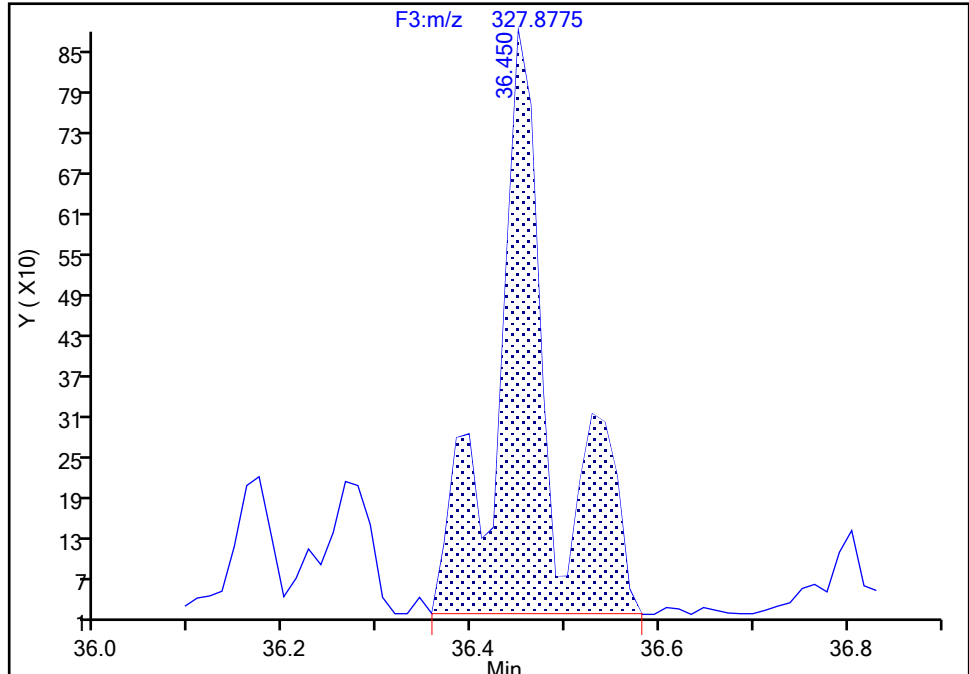
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Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-118, CAS: 31508-00-6

Signal: 2

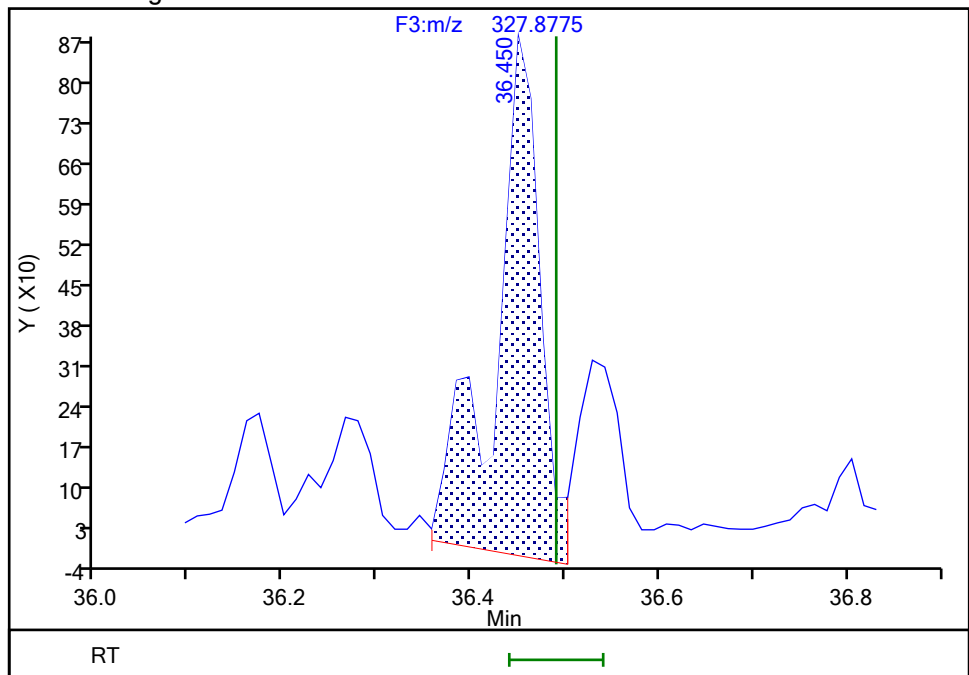
RT: 36.45
Area: 3485
Amount: 0.114018
Amount Units: pg/ul

Processing Integration Results



RT: 36.45
Area: 3000
Amount: 0.107710
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 12-Jun-2024 00:01:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d

Injection Date: 11-Jun-2024 20:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

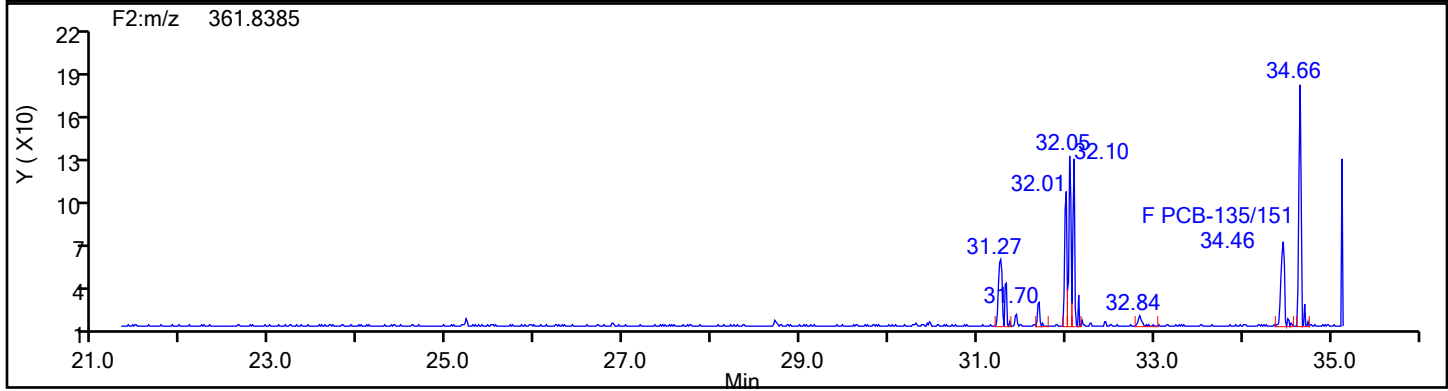
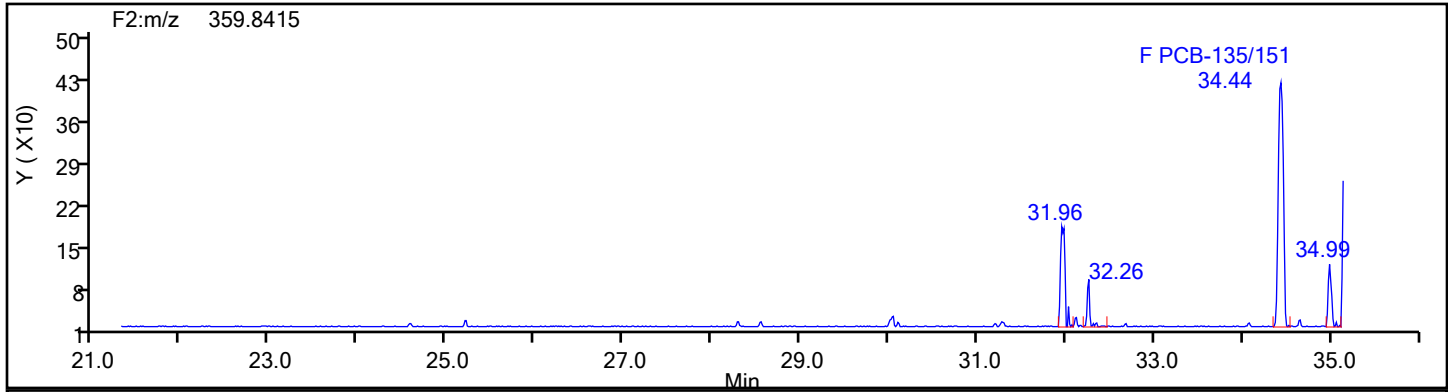
Worklist#: 87502

Sample Line#: 13

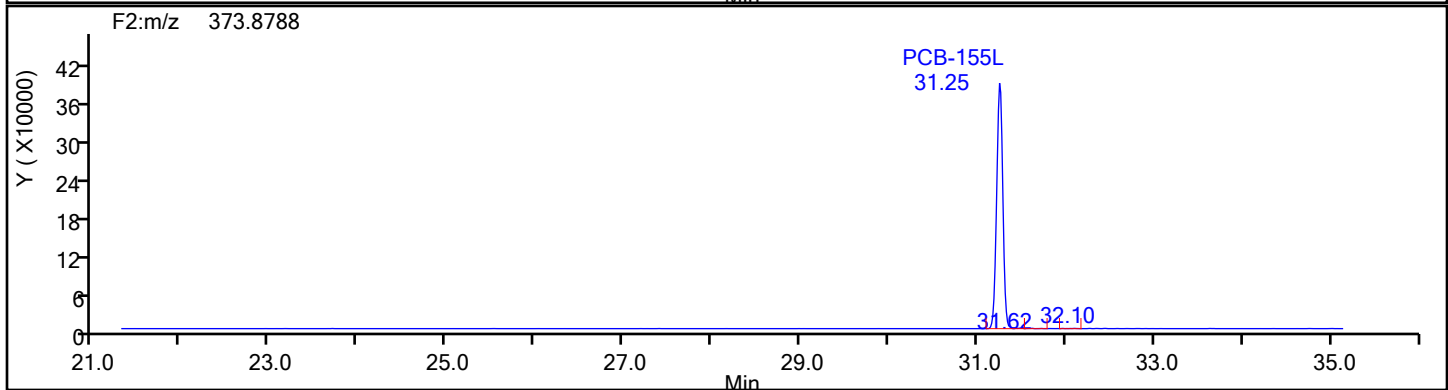
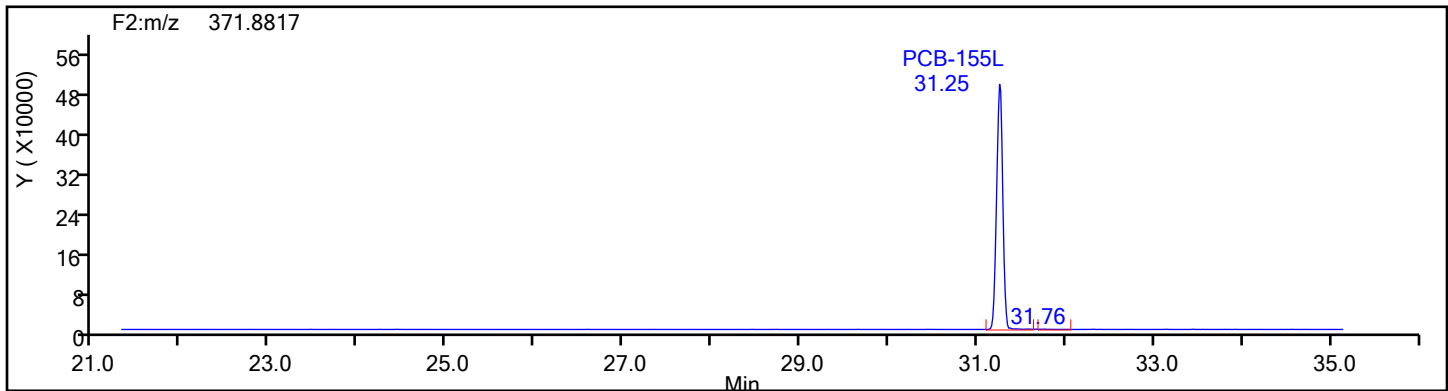
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

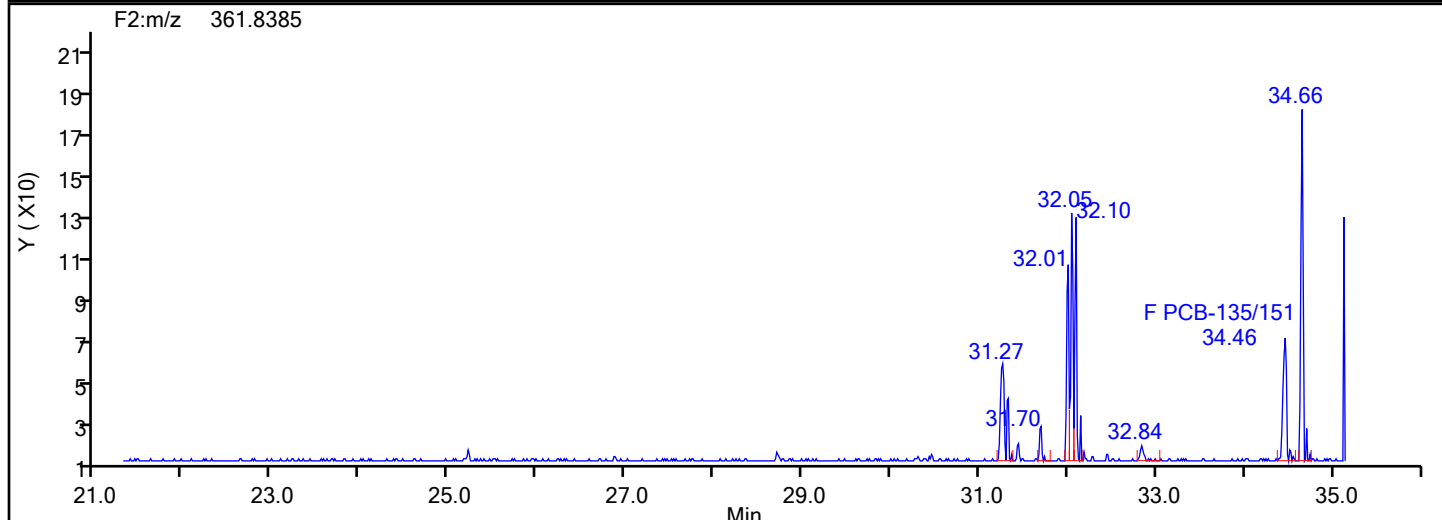
Limit Group: HR - EPA 23 PCB ICAL

Worklist#: 87502

Sample Line#: 13

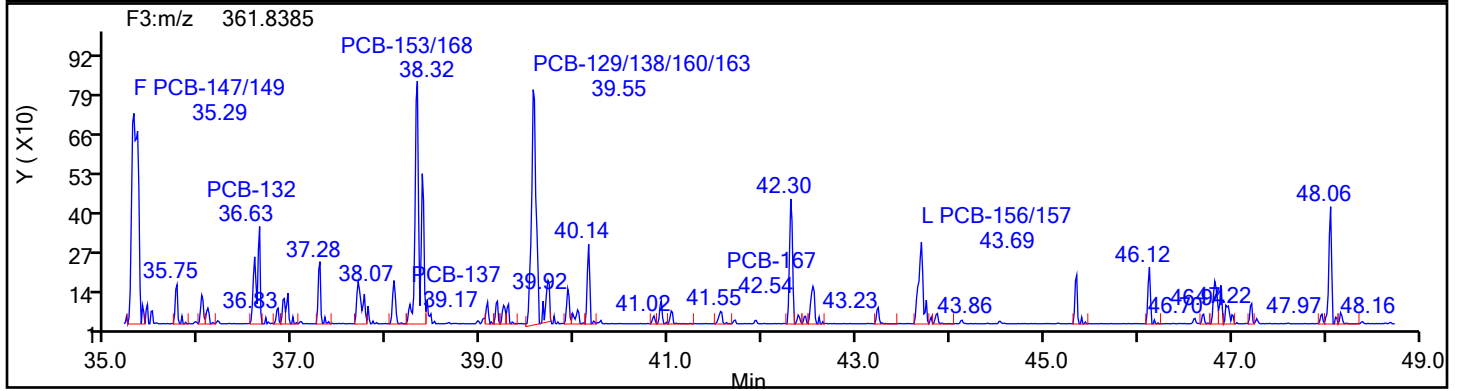
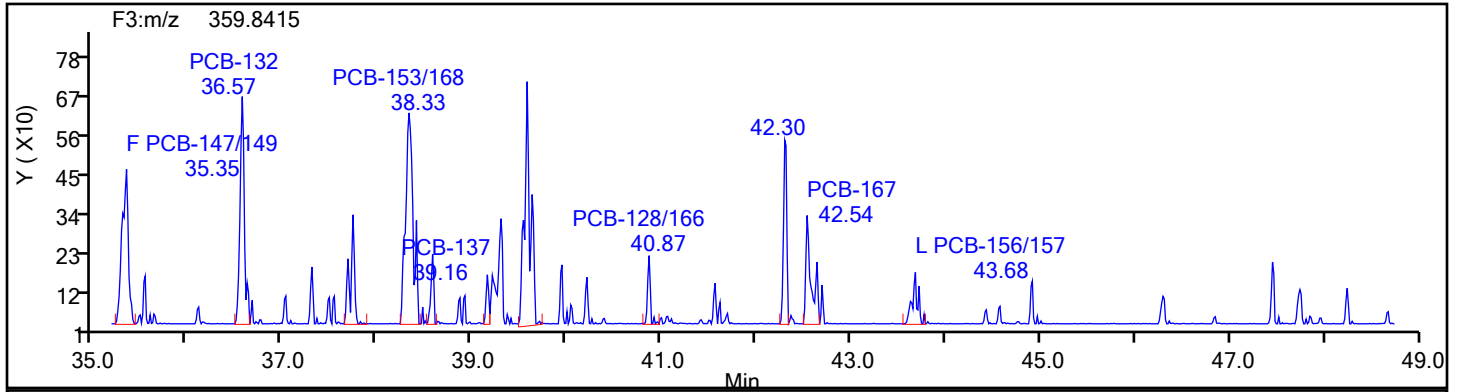
Column Dia: 0.25 mm

HxPCB F2

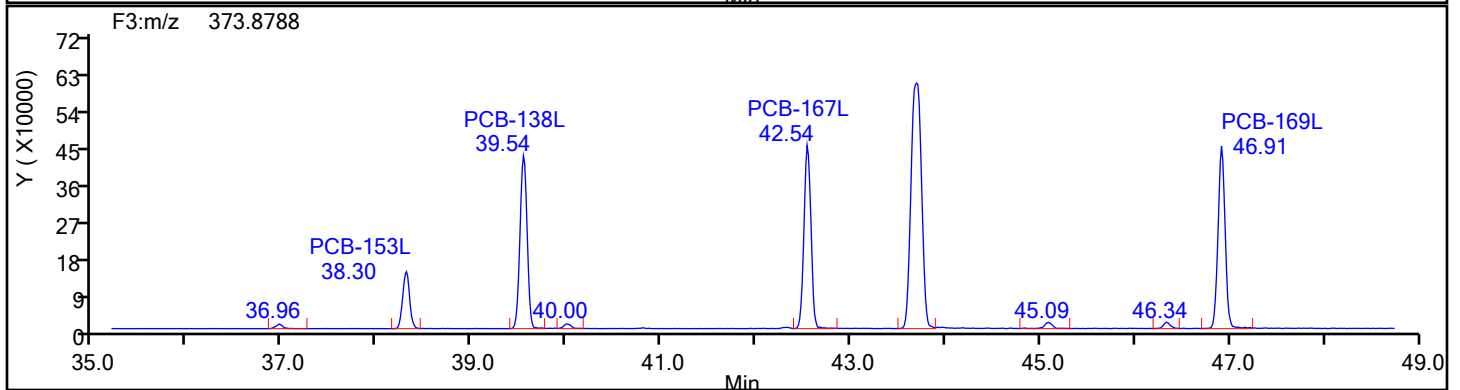
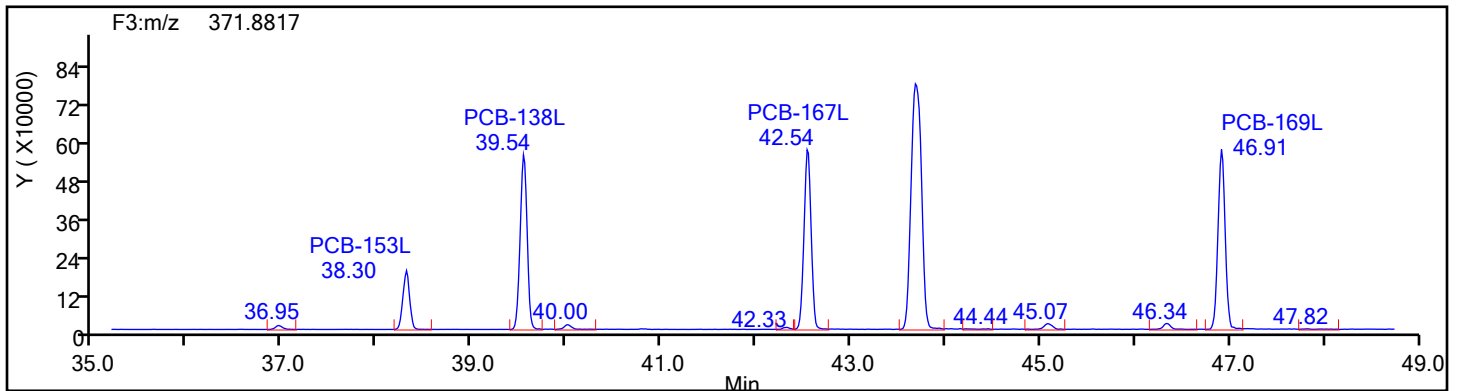


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

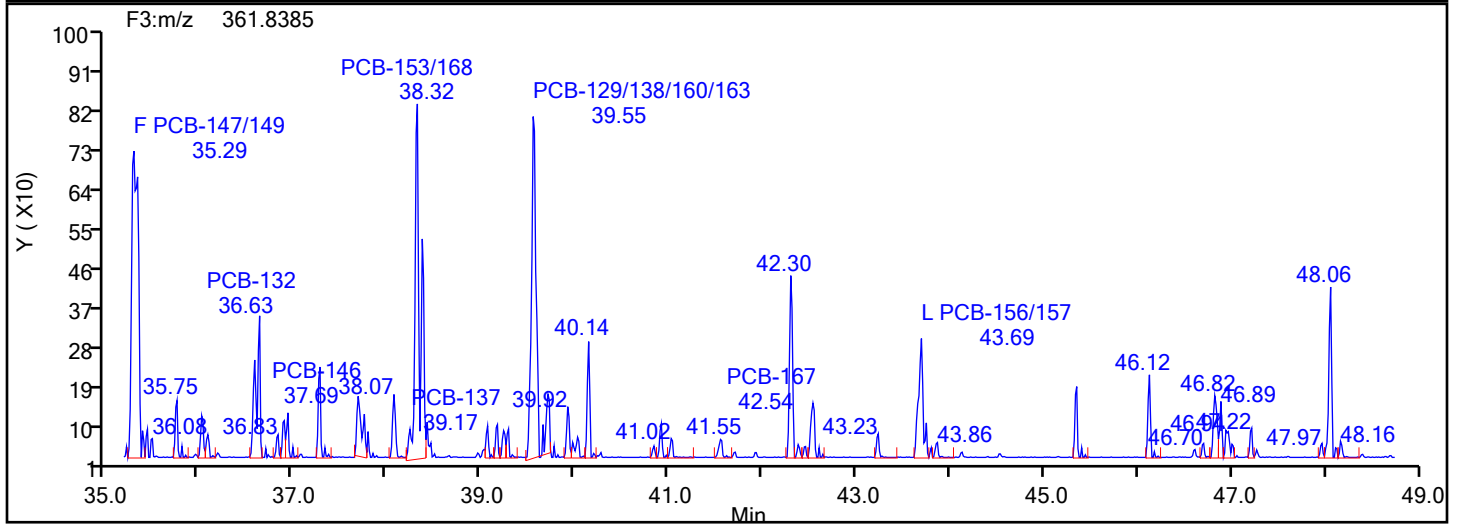
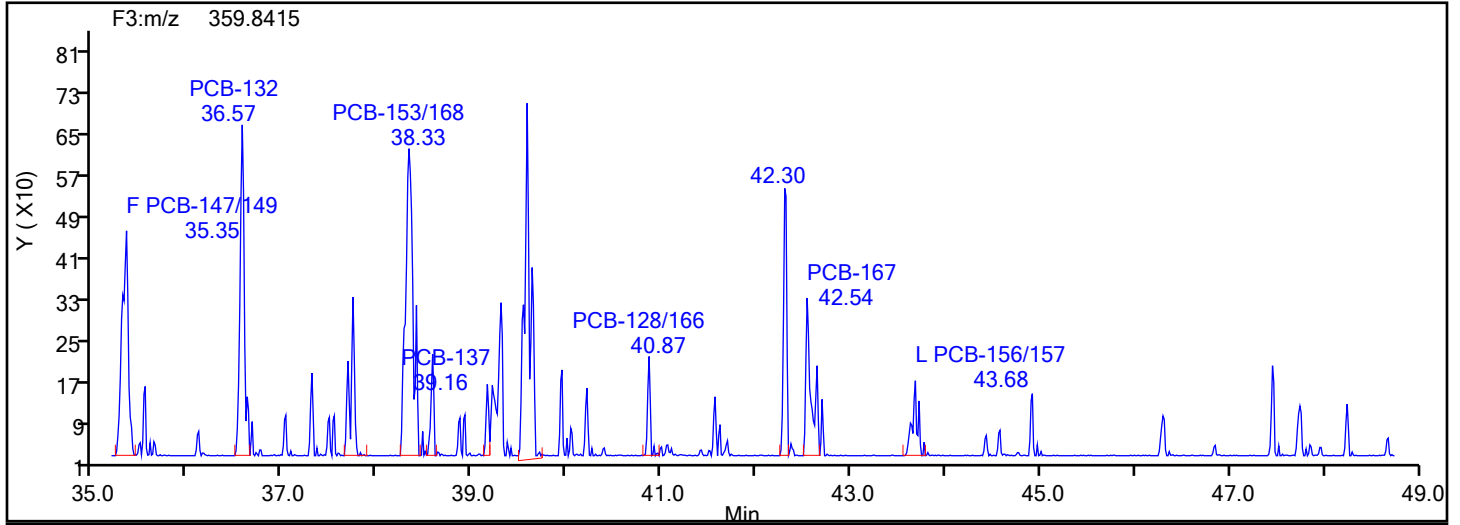


HxPCB F3 Standards

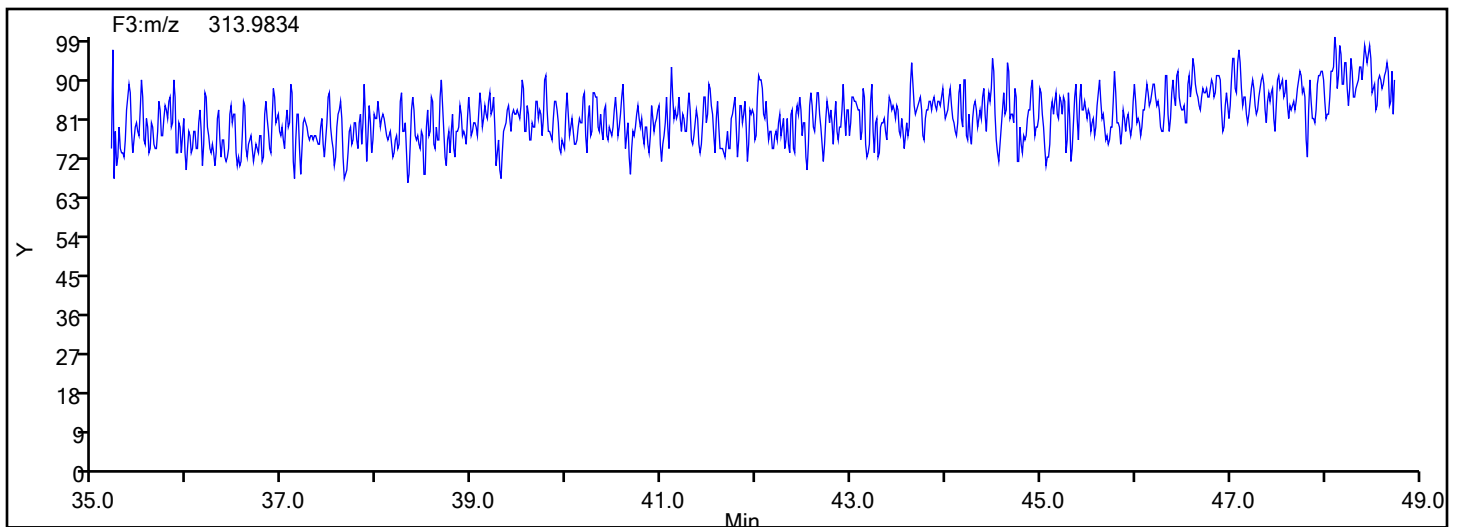


Eurofins Knoxville

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Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

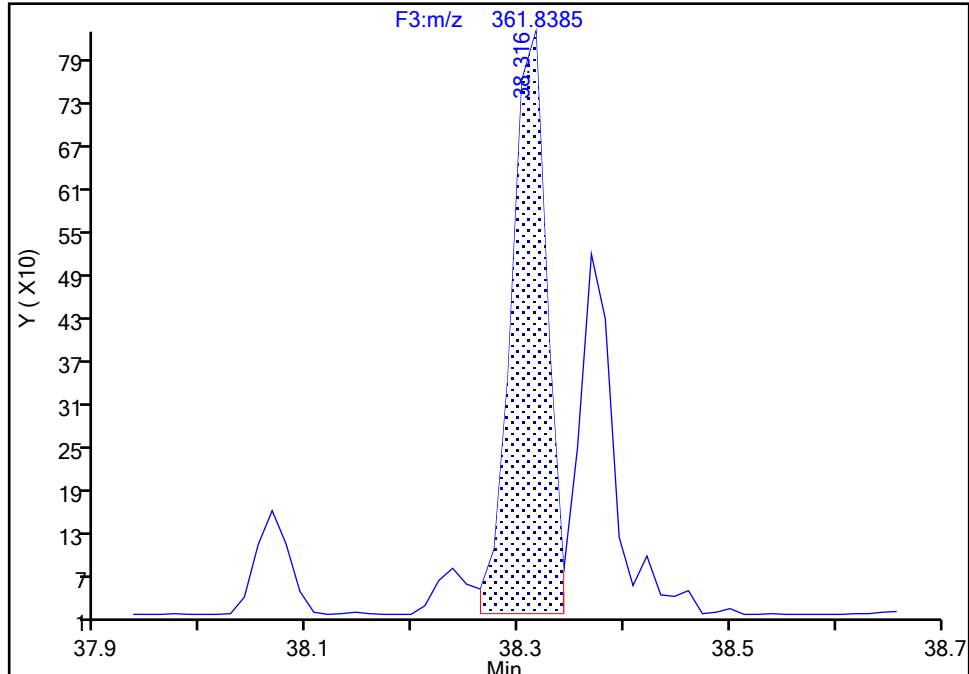
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Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-153/168, CAS: STL01822

Signal: 2

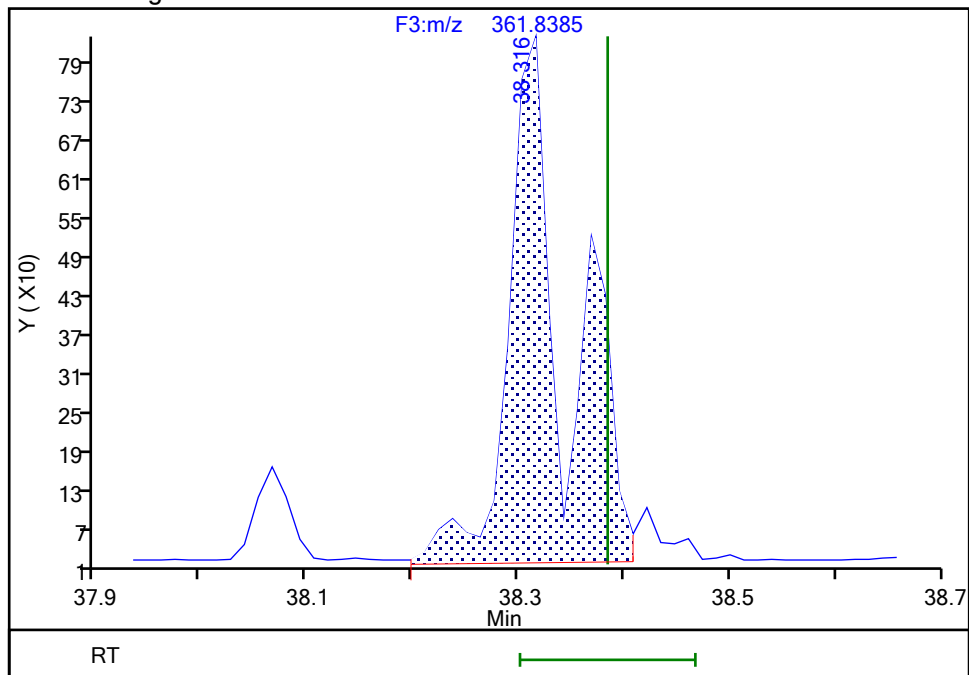
RT: 38.32
Area: 1882
Amount: 0.088716
Amount Units: pg/ul

Processing Integration Results



RT: 38.32
Area: 3087
Amount: 0.109262
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 12-Jun-2024 00:05:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

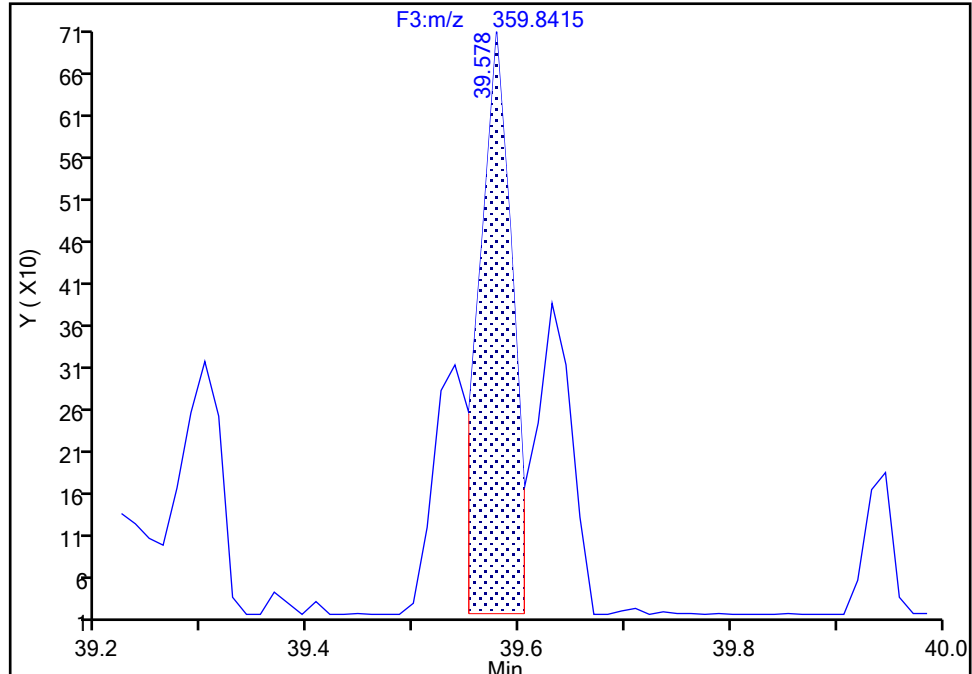
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Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

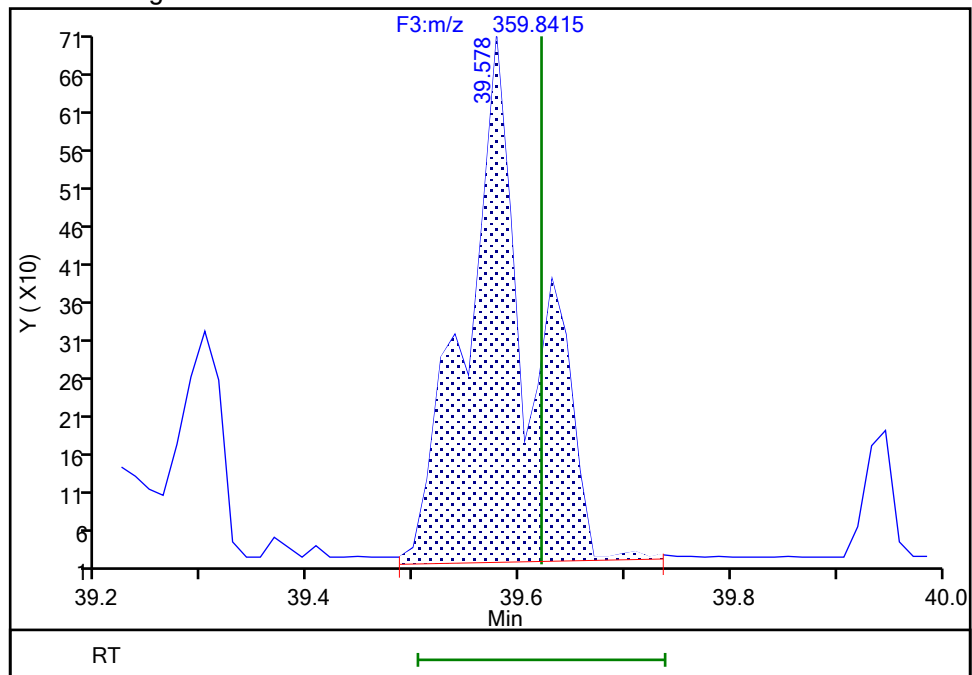
RT: 39.58
Area: 1398
Amount: 0.079651
Amount Units: pg/ul

Processing Integration Results



RT: 39.58
Area: 2961
Amount: 0.119004
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 12-Jun-2024 00:06:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

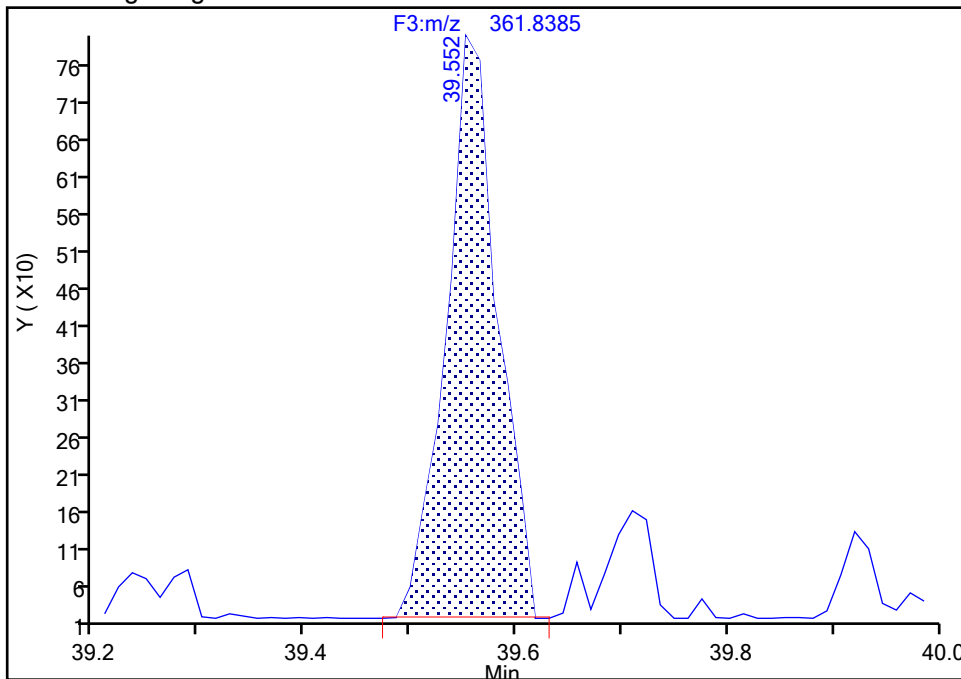
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Injection Date:	11-Jun-2024 20:09:00	Instrument ID:	D2D		
Lims ID:	140-36689-A-5-C	Lab Sample ID:	140-36689-5		
Client ID:	M23-NO.3 BOILER-RUN 5 COMBINED				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl (0.25 mm)	Detector	F3(35.64 :49.10)		

PCB-129/138/160/163, CAS: STL02296

Signal: 2

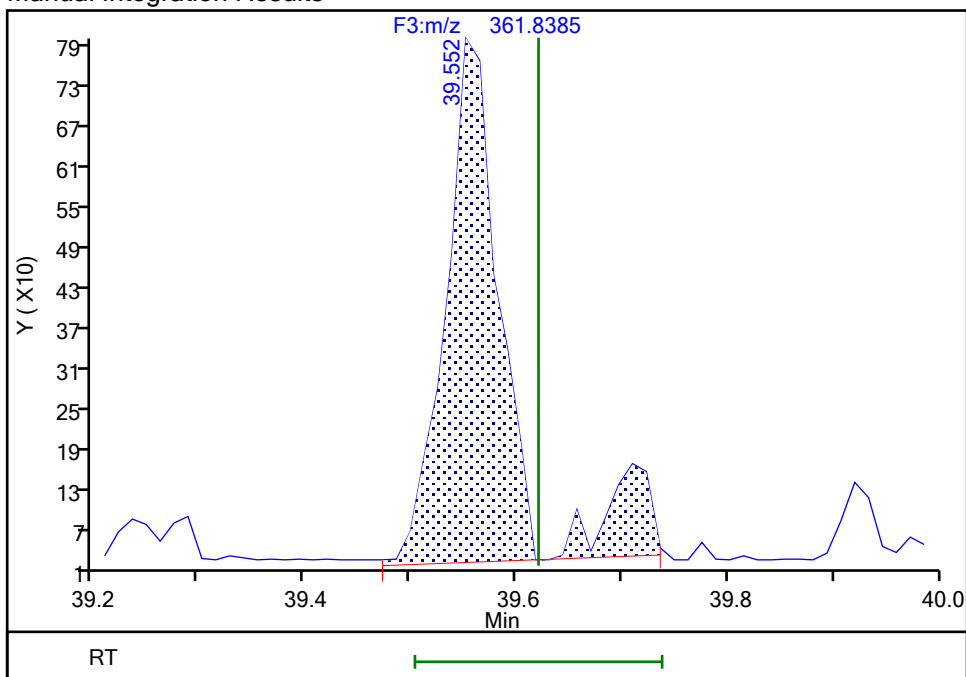
RT: 39.55
Area: 2644
Amount: 0.079651
Amount Units: pg/ul

Processing Integration Results



RT: 39.55
Area: 3078
Amount: 0.119004
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 12-Jun-2024 00:06:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1291 of 3076

BASFHWC-Goldman-02743
9/6/2024
2:43:26 PM

Eurofins Knoxville

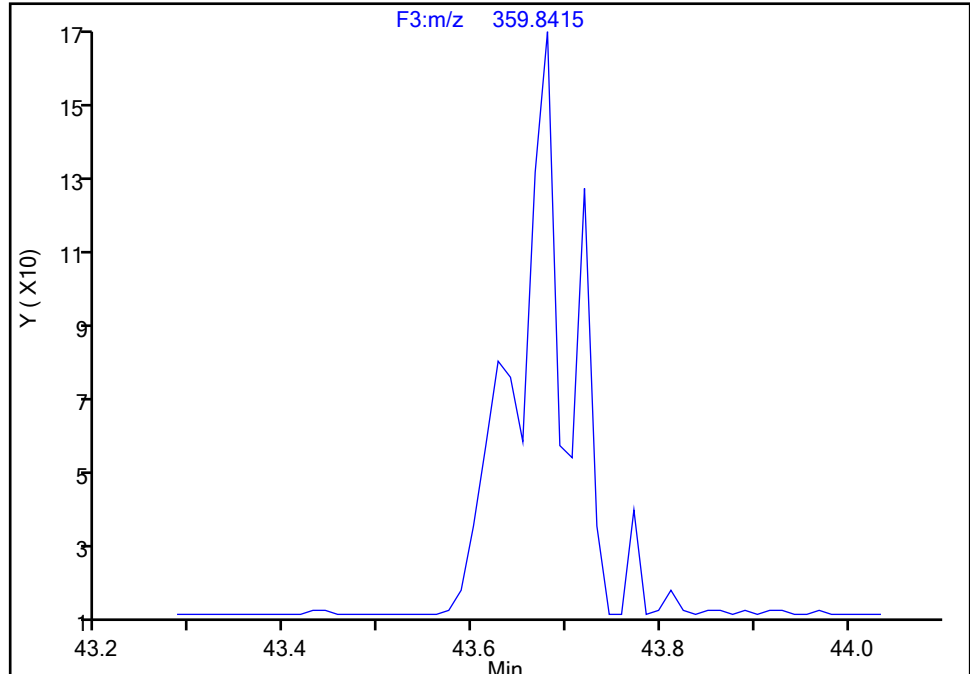
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Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-156/157, CAS: STL01792

Signal: 1

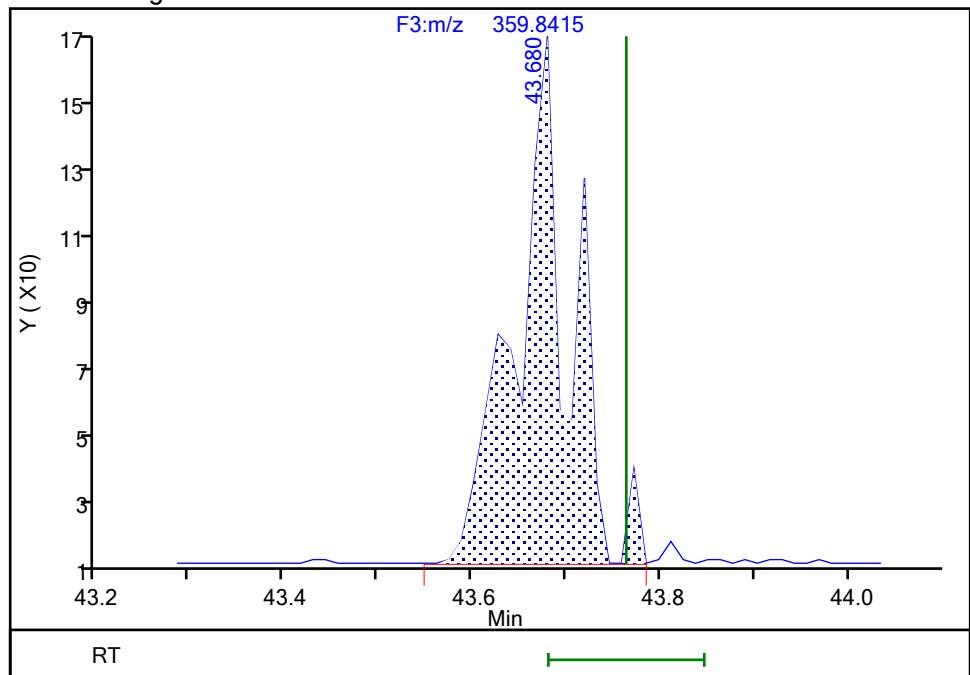
Not Detected
Expected RT: 43.76

Processing Integration Results



Manual Integration Results

RT: 43.68
Area: 572
Amount: 0.025333
Amount Units: pg/ul



Reviewer: TT6I, 12-Jun-2024 10:53:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

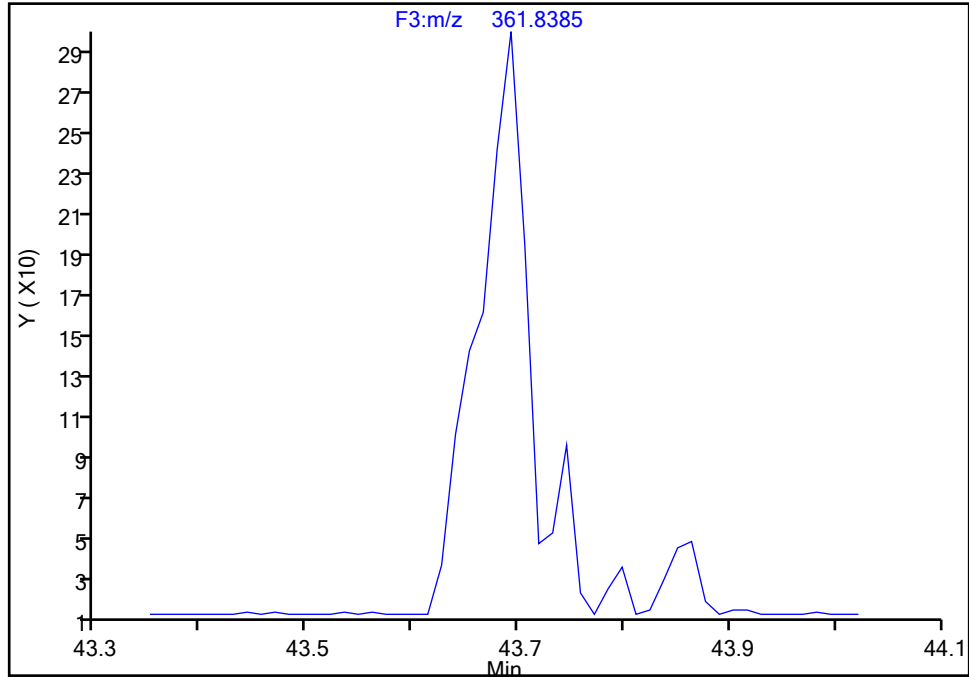
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Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-156/157, CAS: STL01792

Signal: 2

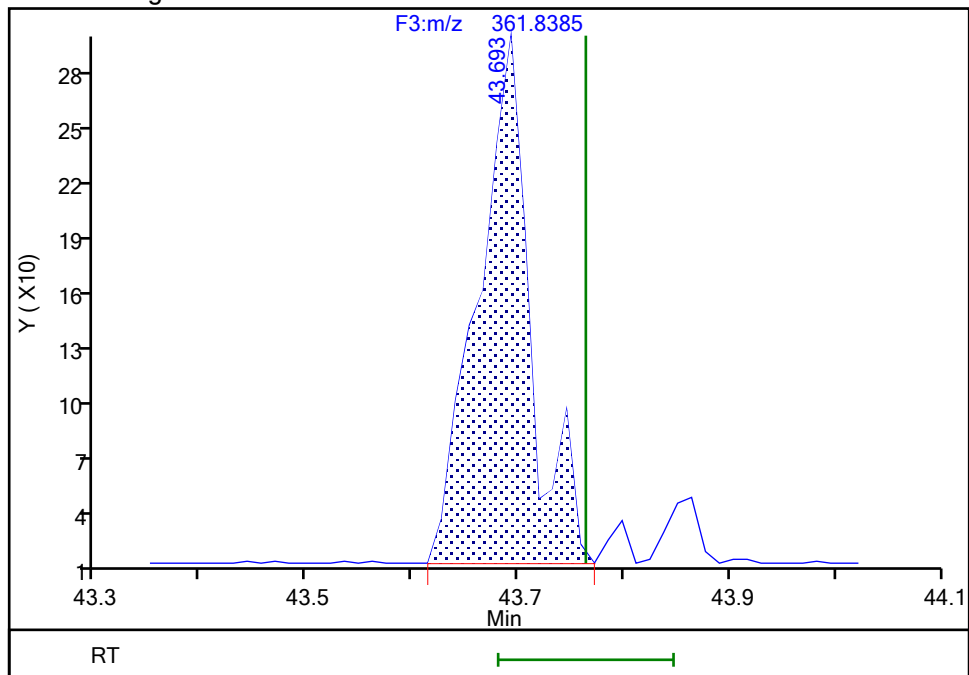
Not Detected
Expected RT: 43.76

Processing Integration Results



RT: 43.69
Area: 939
Amount: 0.025333
Amount Units: pg/ul

Manual Integration Results



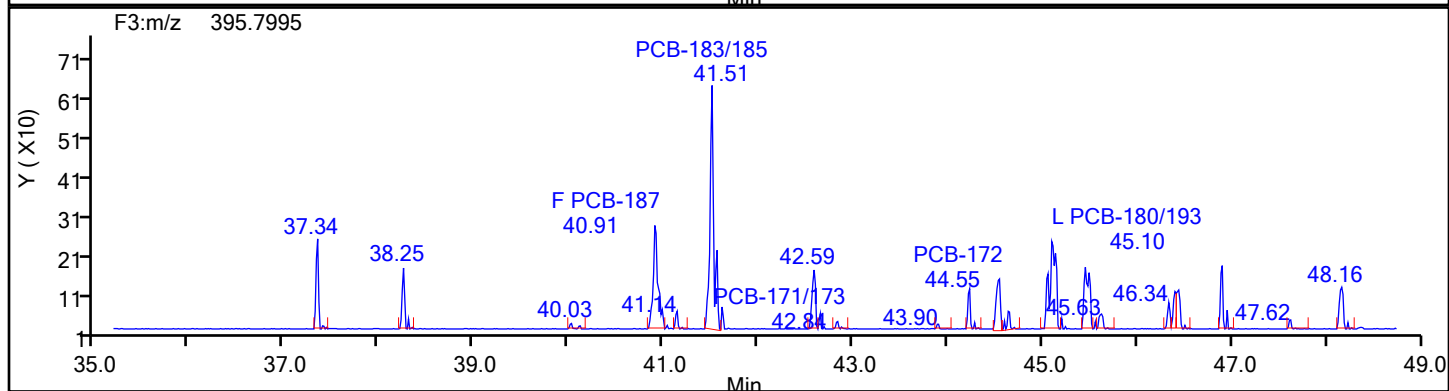
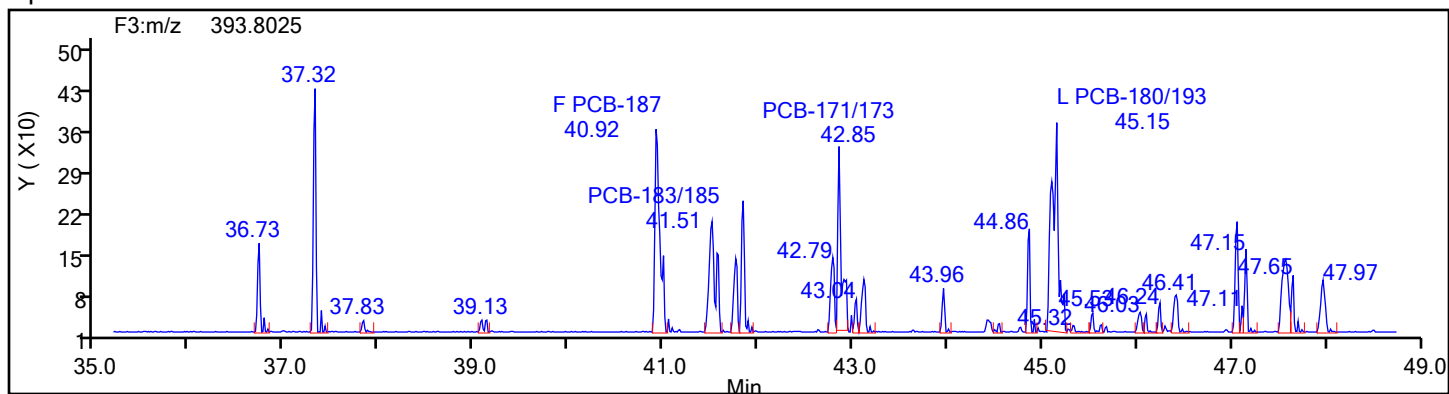
Reviewer: TT6I, 12-Jun-2024 10:53:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

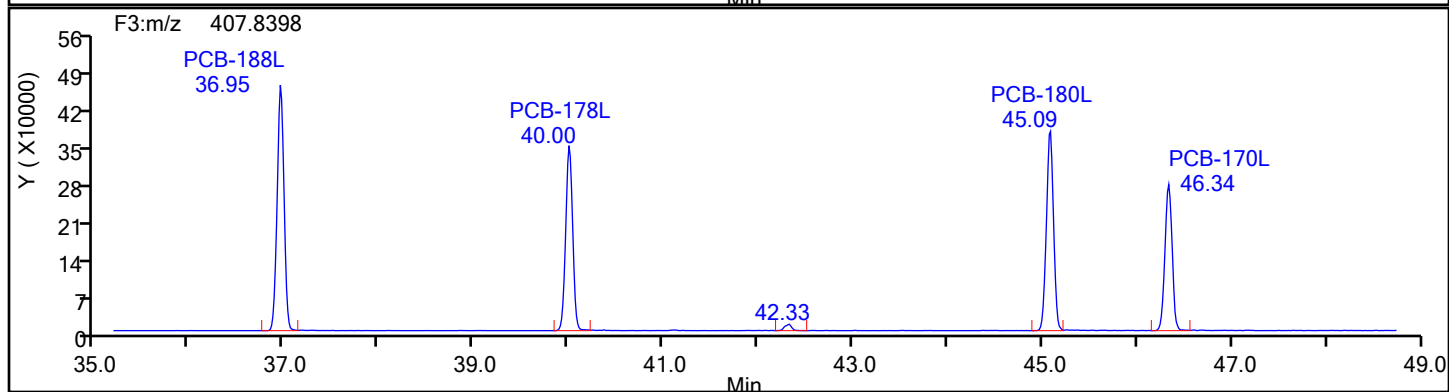
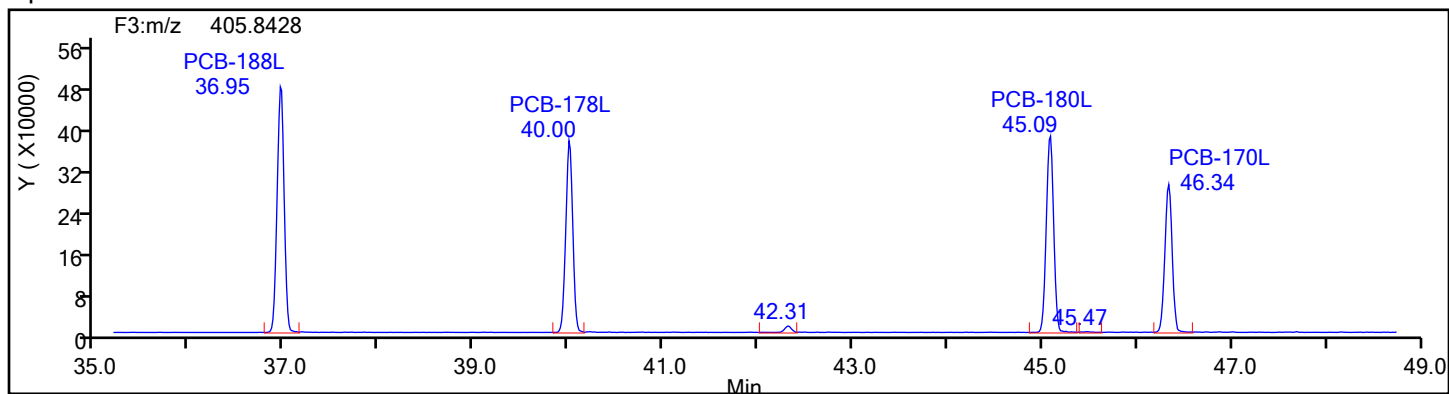
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

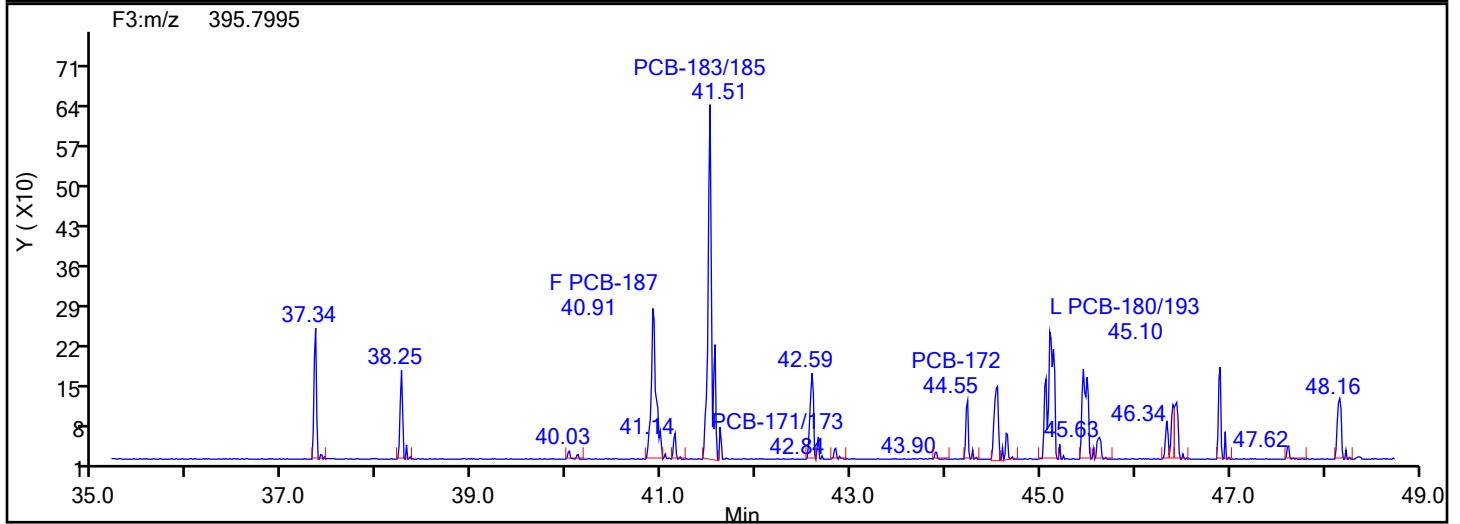
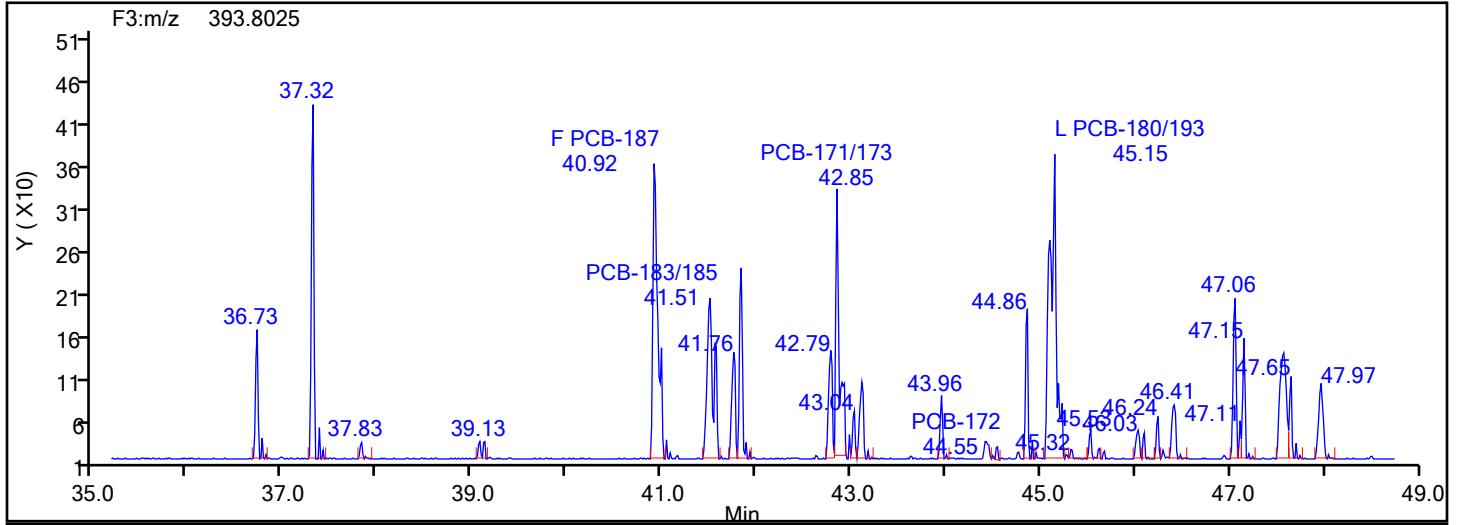


HpPCB F3 Standards

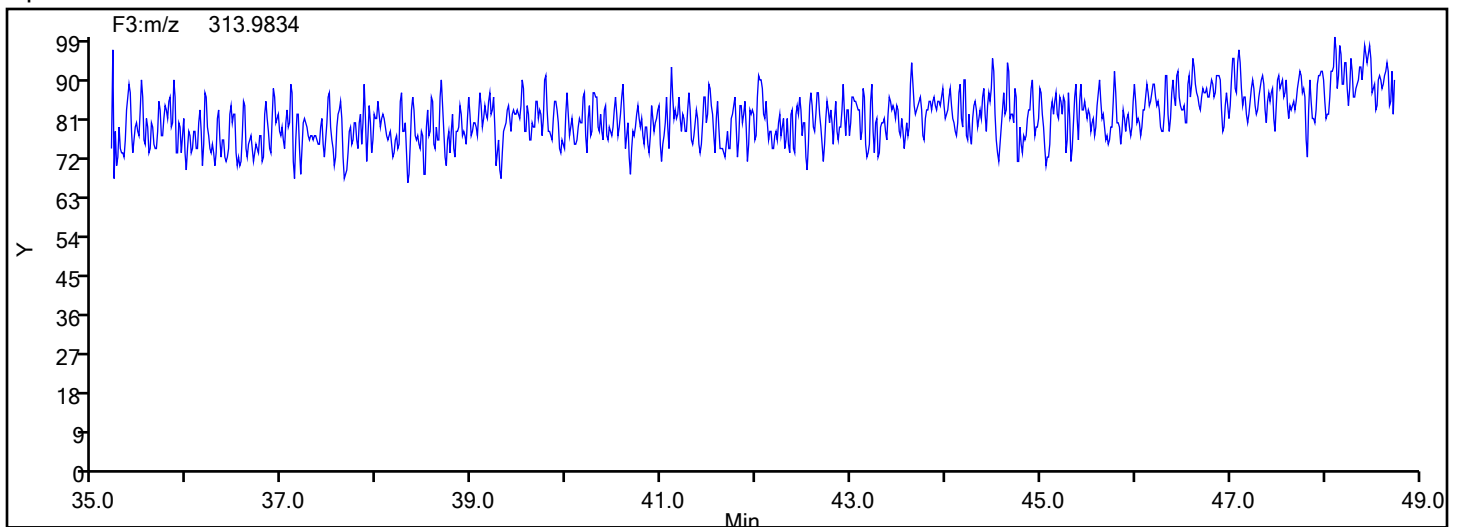


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

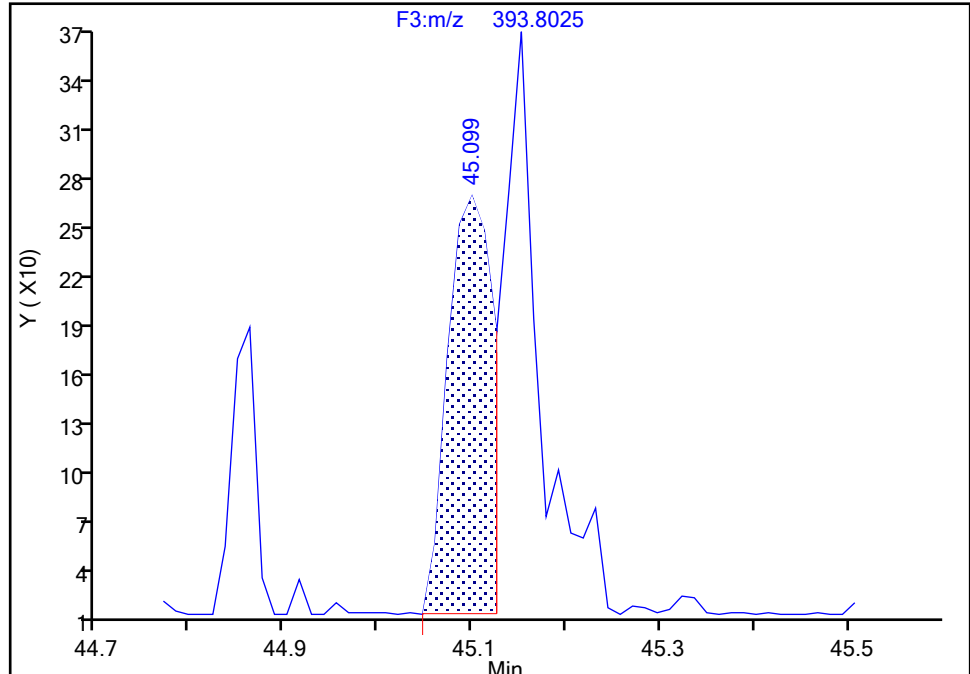
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Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-180/193, CAS: STL01824

Signal: 1

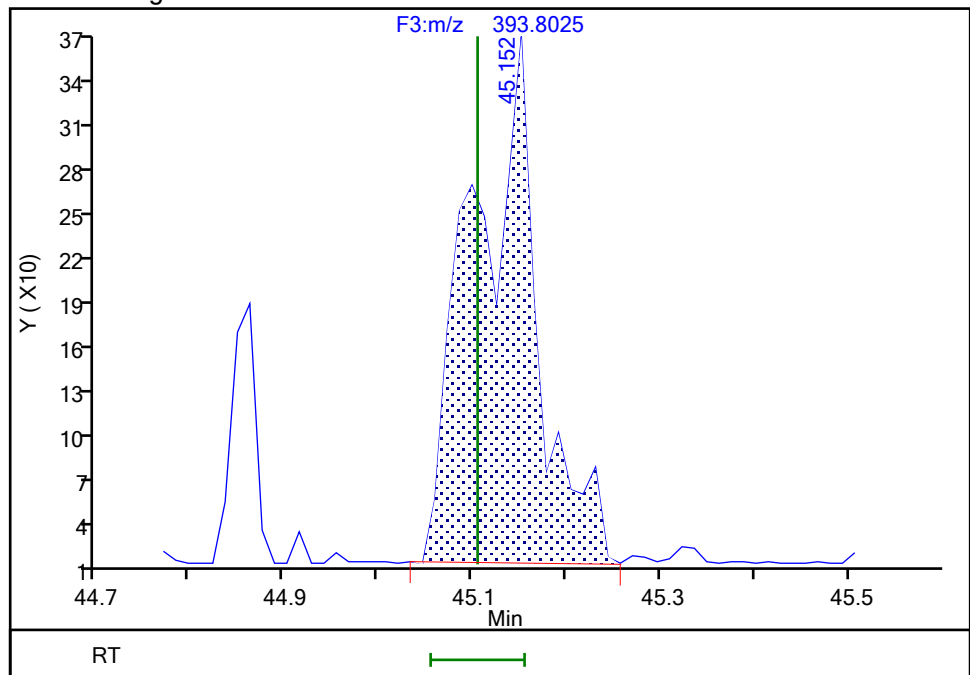
RT: 45.10
Area: 790
Amount: 0.041443
Amount Units: pg/ul

Processing Integration Results



RT: 45.15
Area: 1714
Amount: 0.061661
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 12-Jun-2024 10:53:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d

Injection Date: 11-Jun-2024 20:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

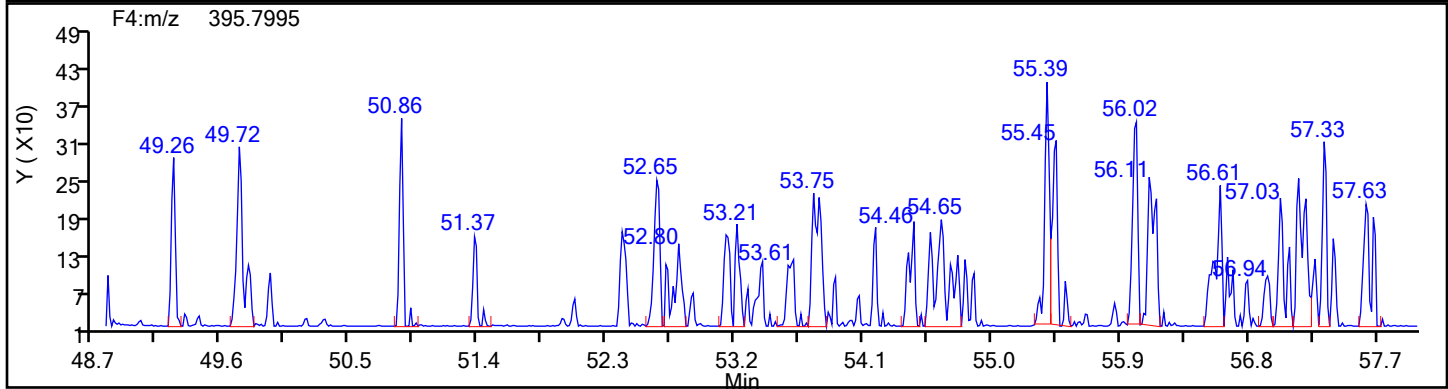
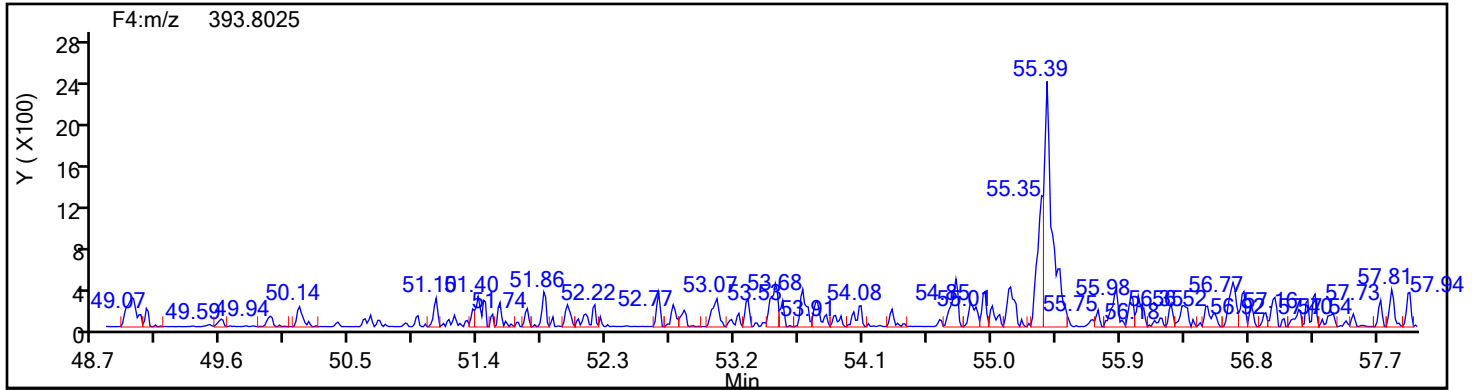
Worklist#: 87502

Sample Line#: 13

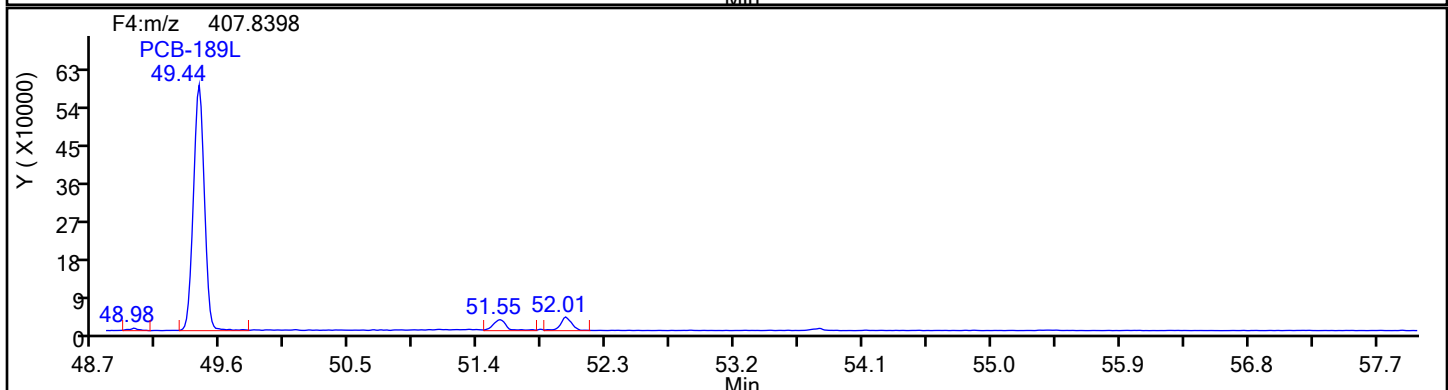
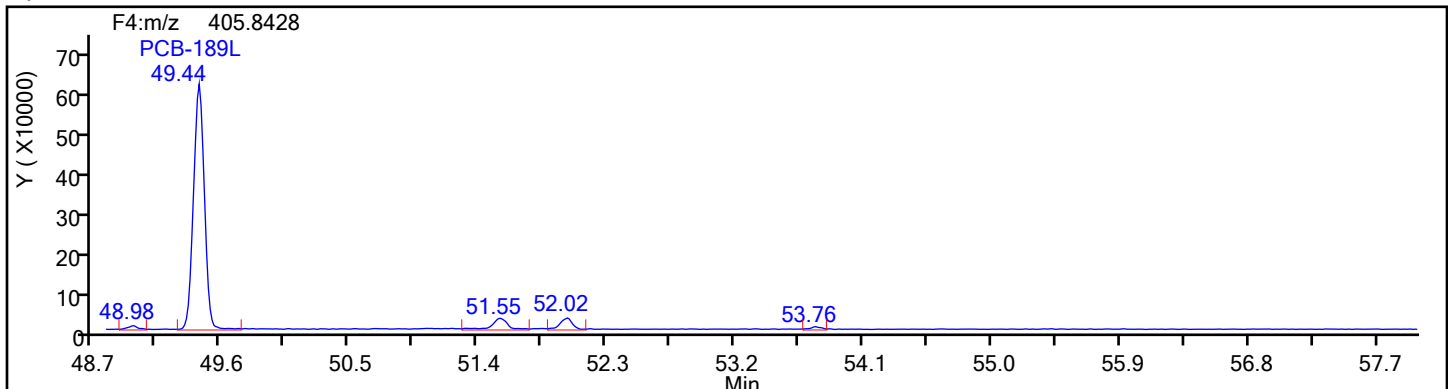
Column Type: SPB-Octyl

Column Dia: 0.25 mm

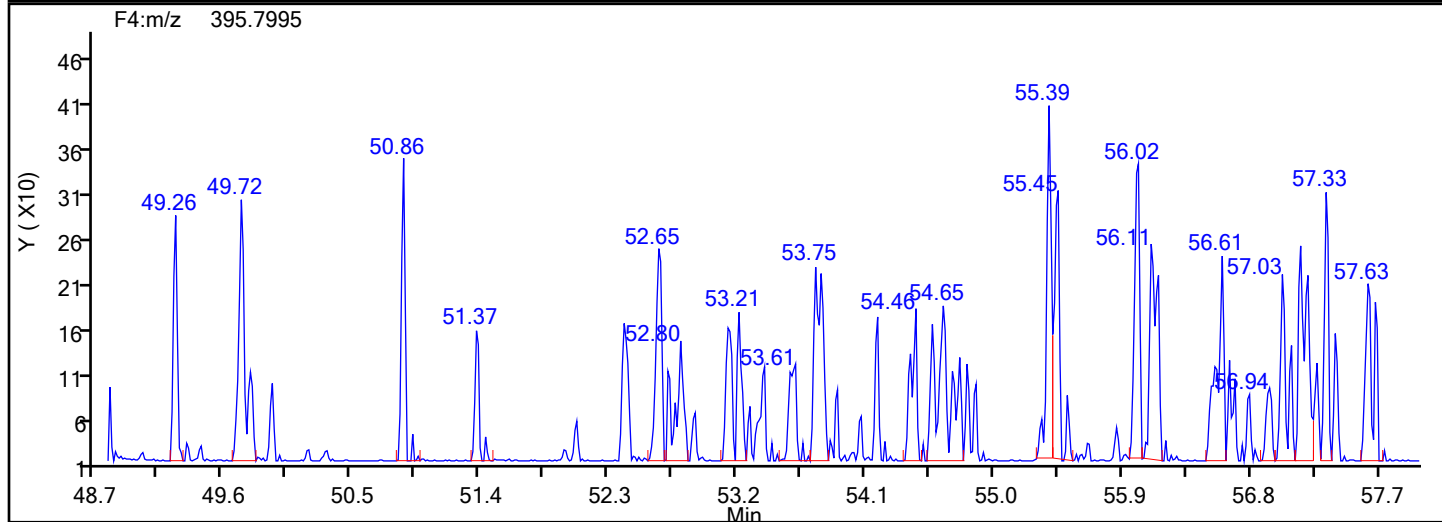
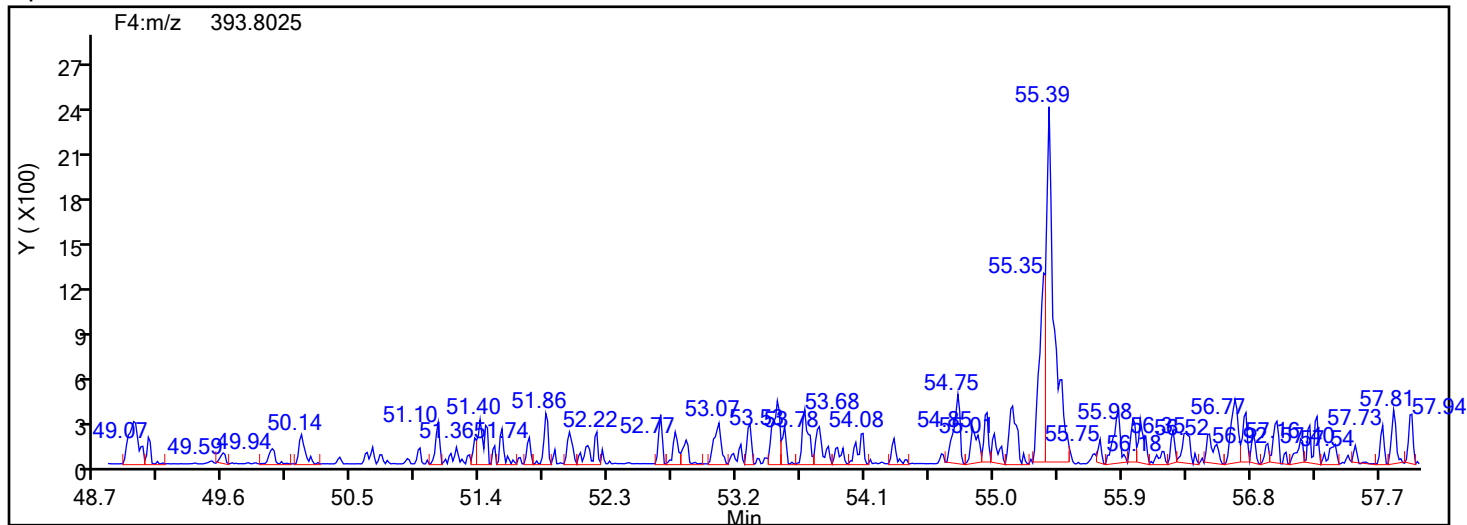
HpPCB F4



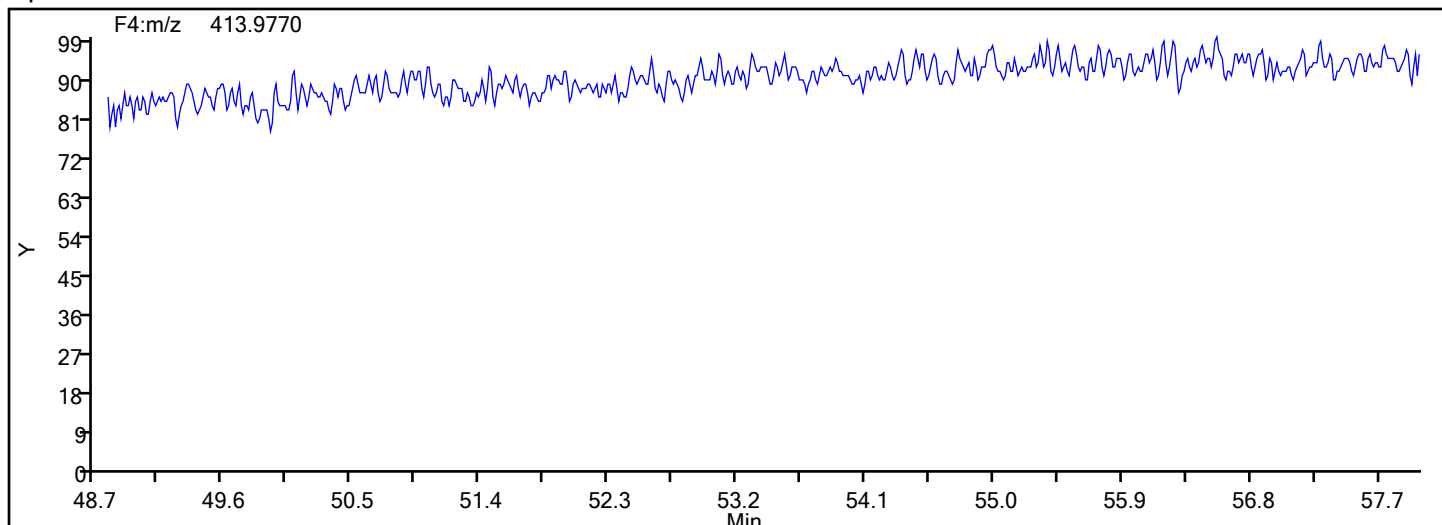
HpPCB F4 Standards



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d		
Injection Date:	11-Jun-2024 20:09:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23-NO.3 BOILER-RUN 5 COMBINED		
Worklist#:	87502	Sample Line#:	13
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
HpPCB F4			



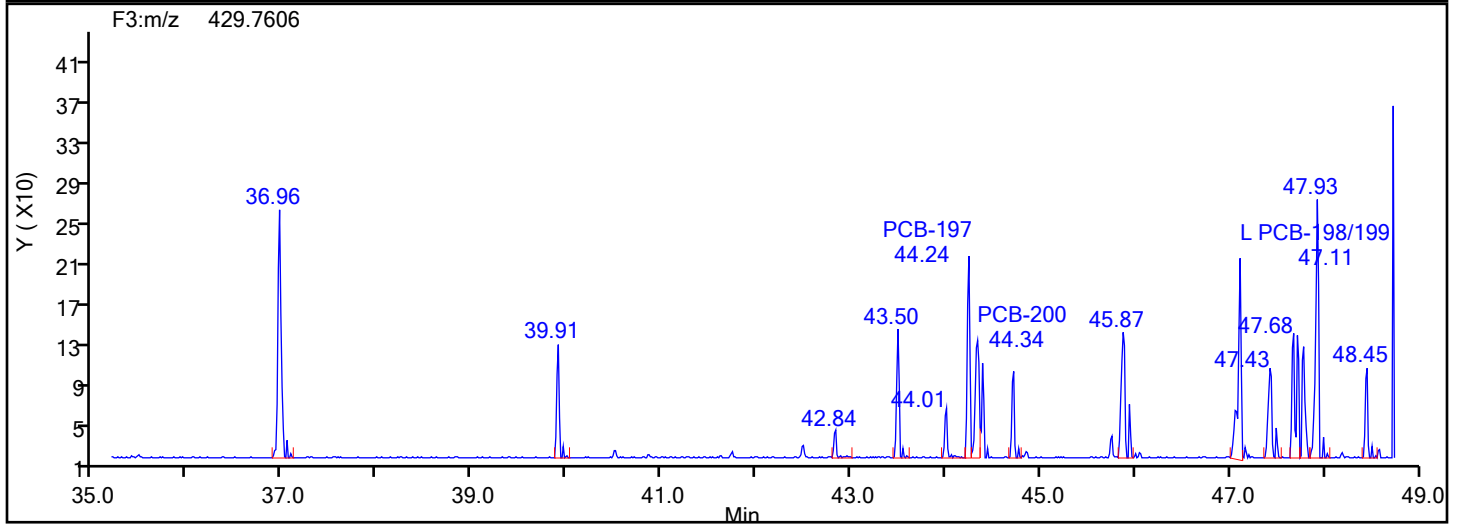
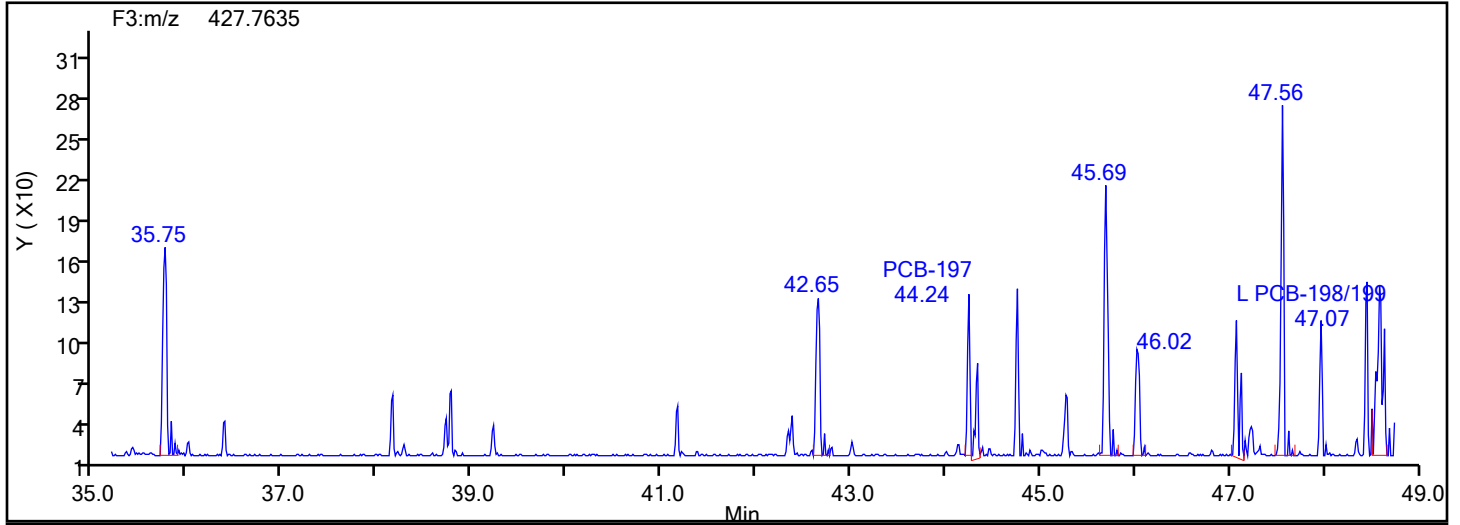
HpPCB F4 Lock Mass



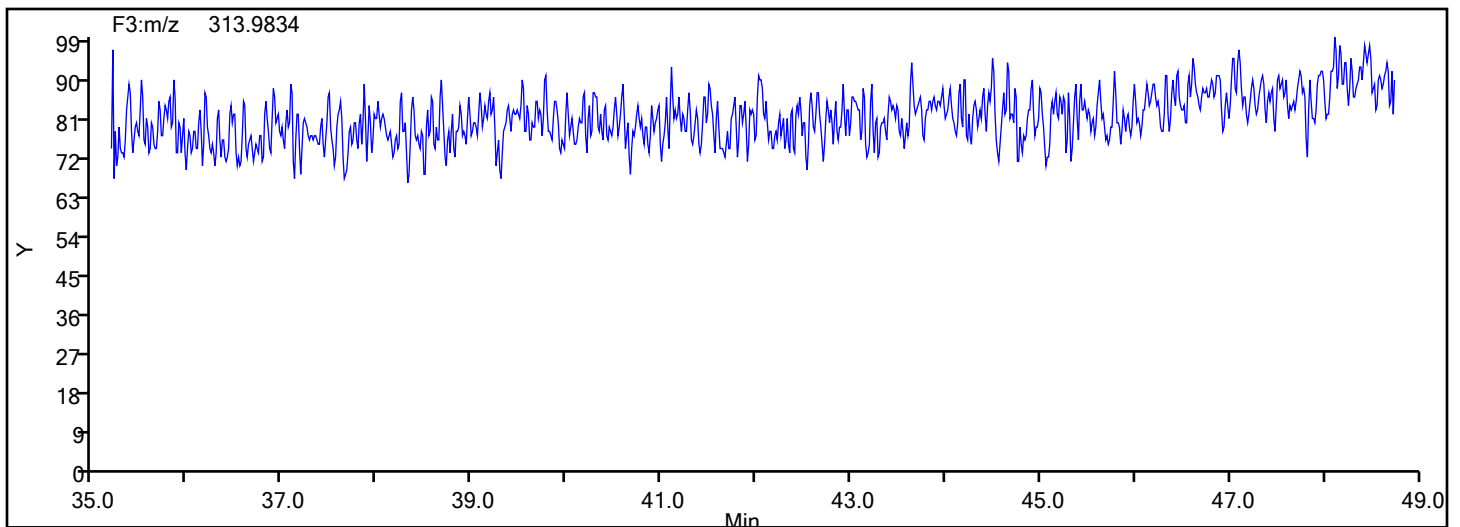
Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

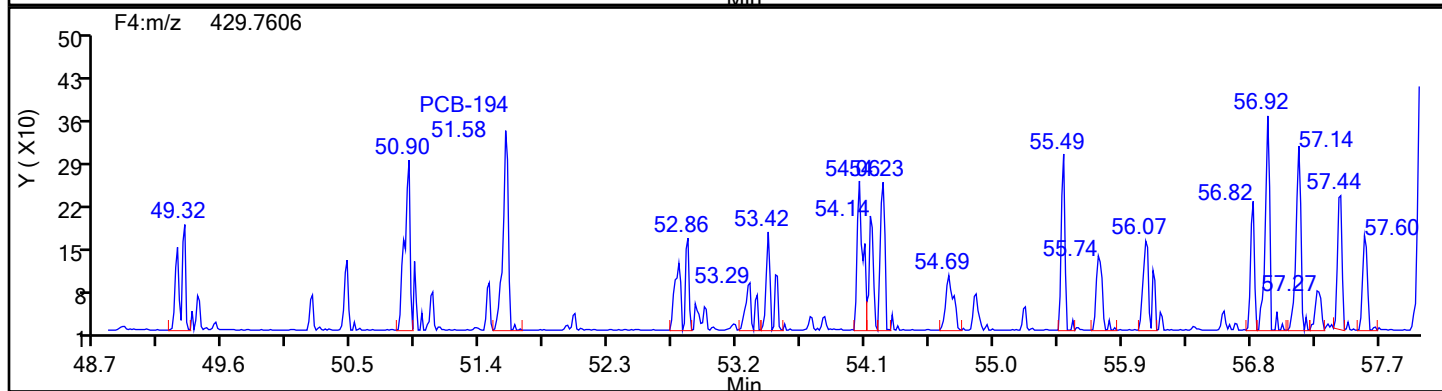
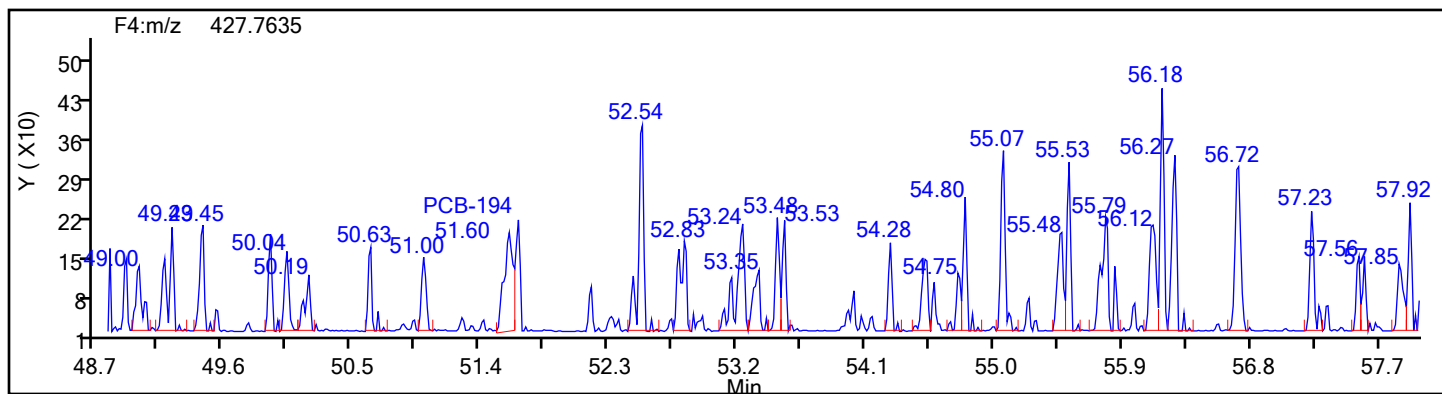


OcPCB F3 Lock Mass

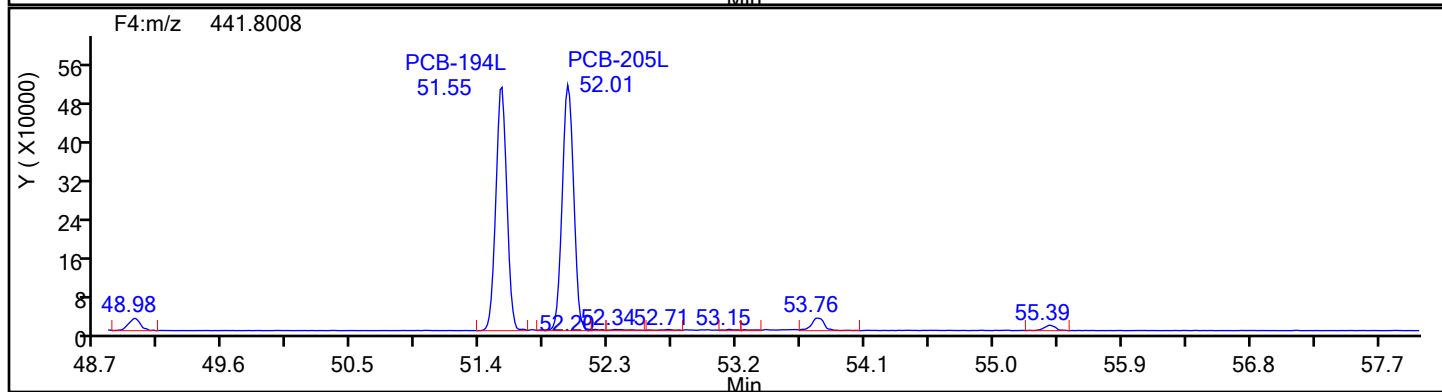
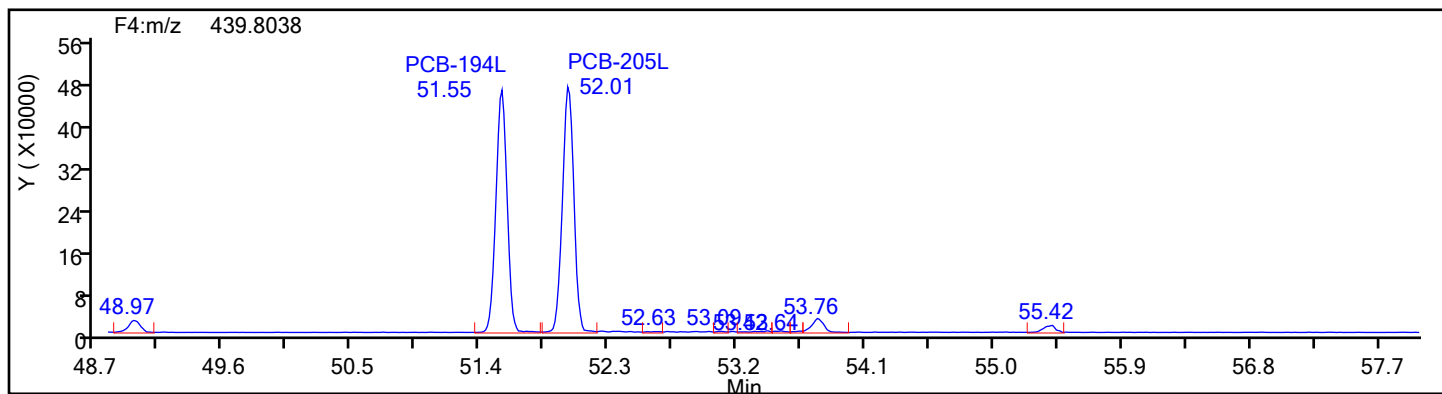


Eurofins Knoxville

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Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

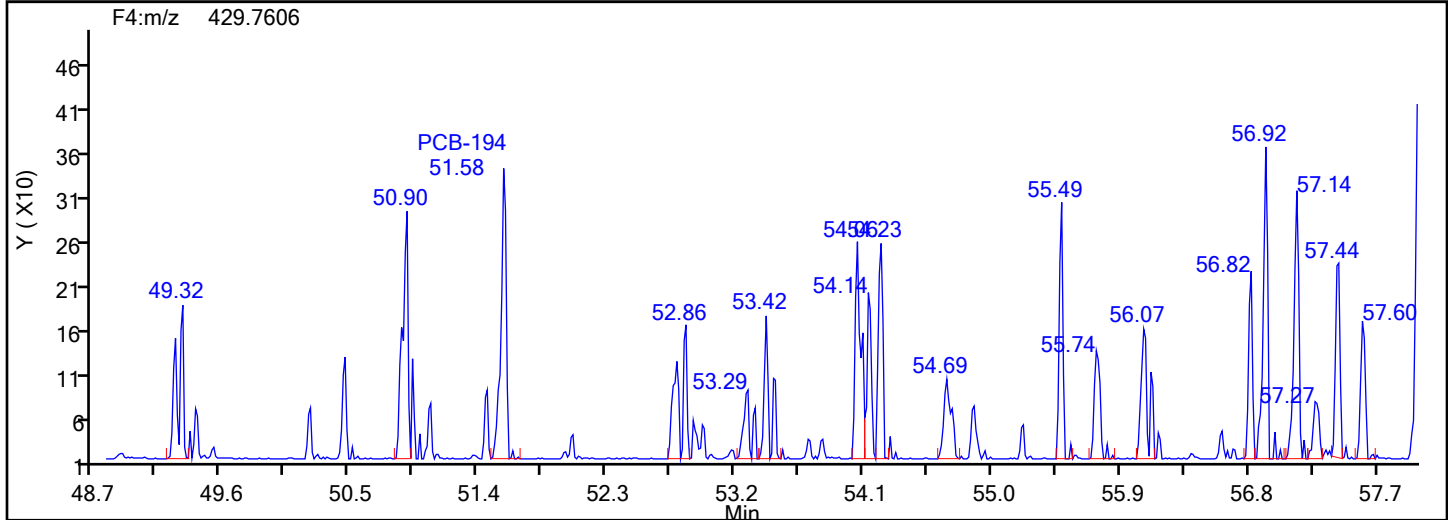
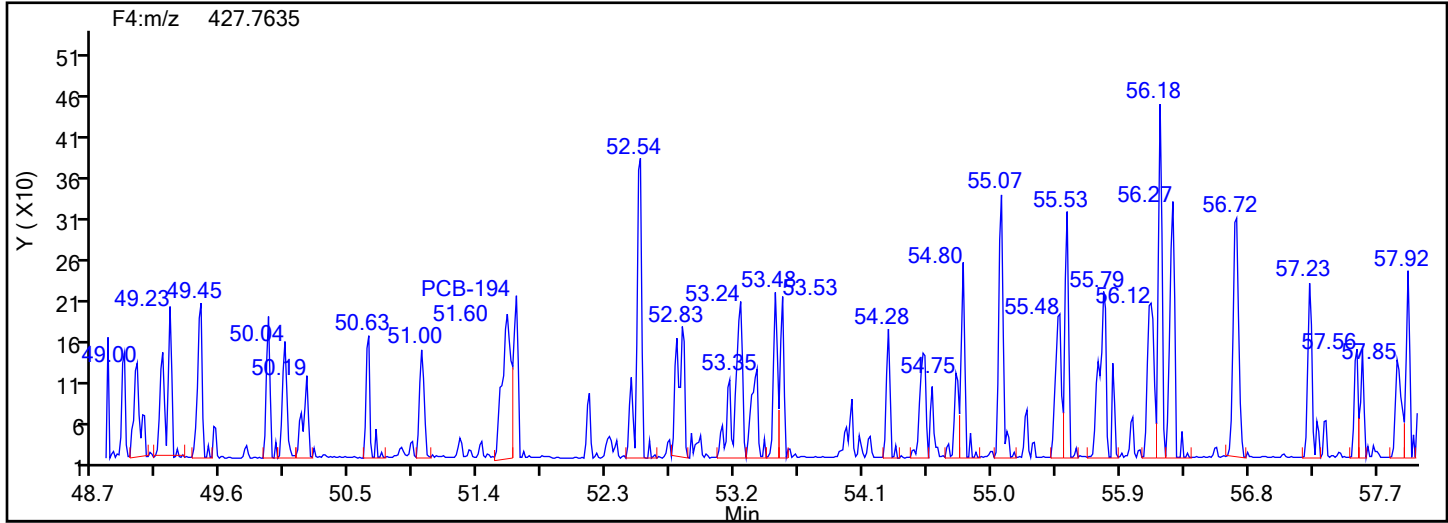


OcPCB F4 Standards

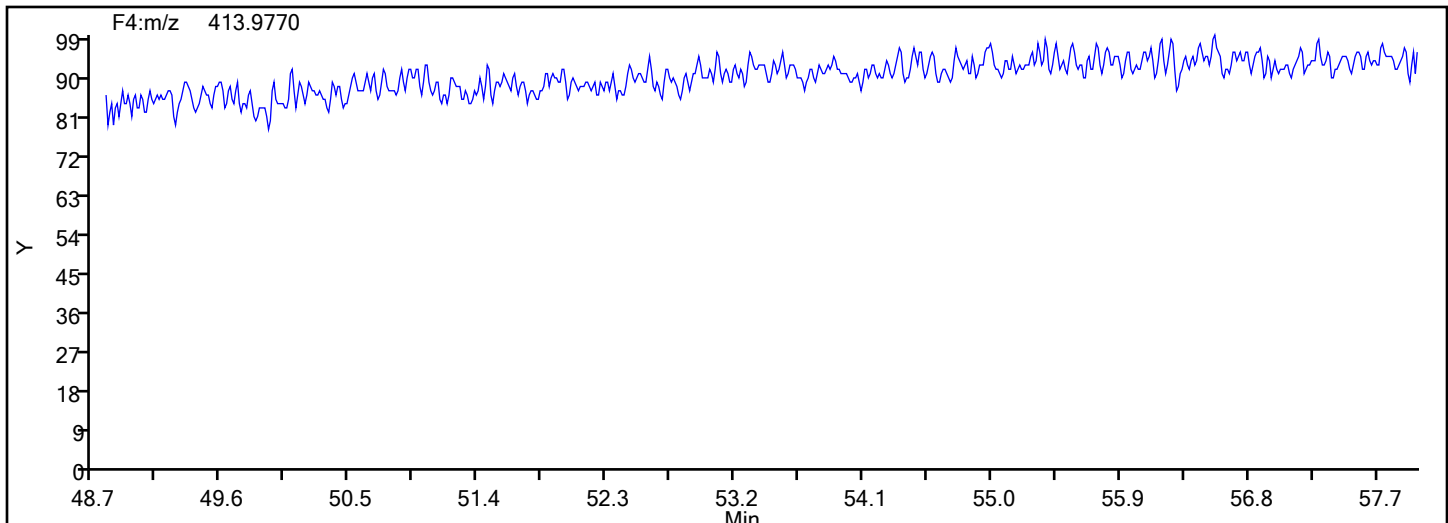


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d

Injection Date: 11-Jun-2024 20:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 5 COMBINED

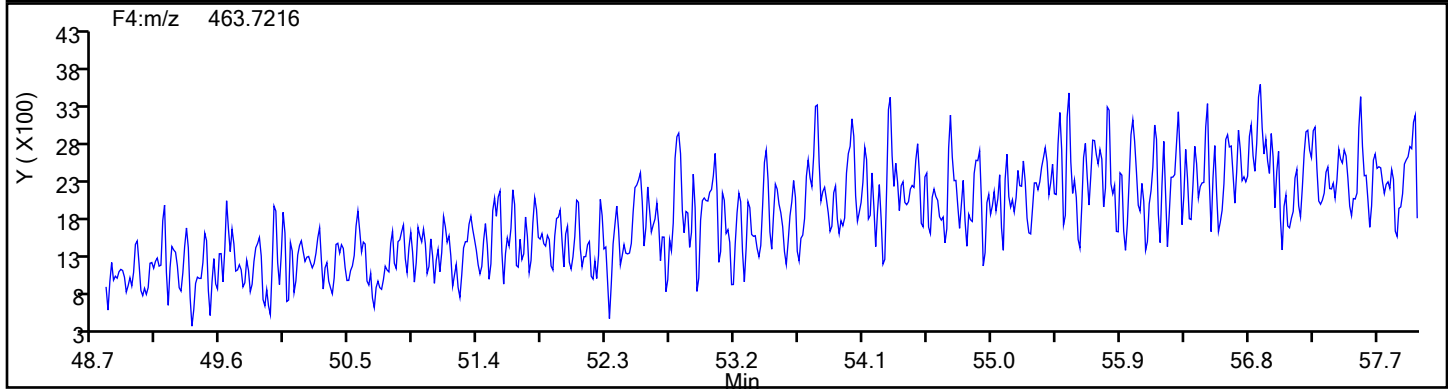
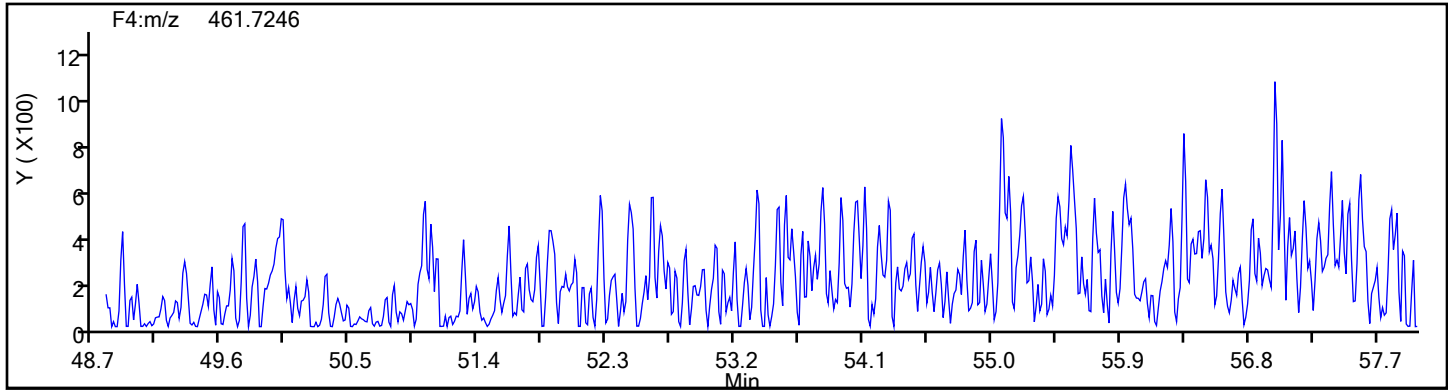
Worklist#: 87502

Sample Line#: 13

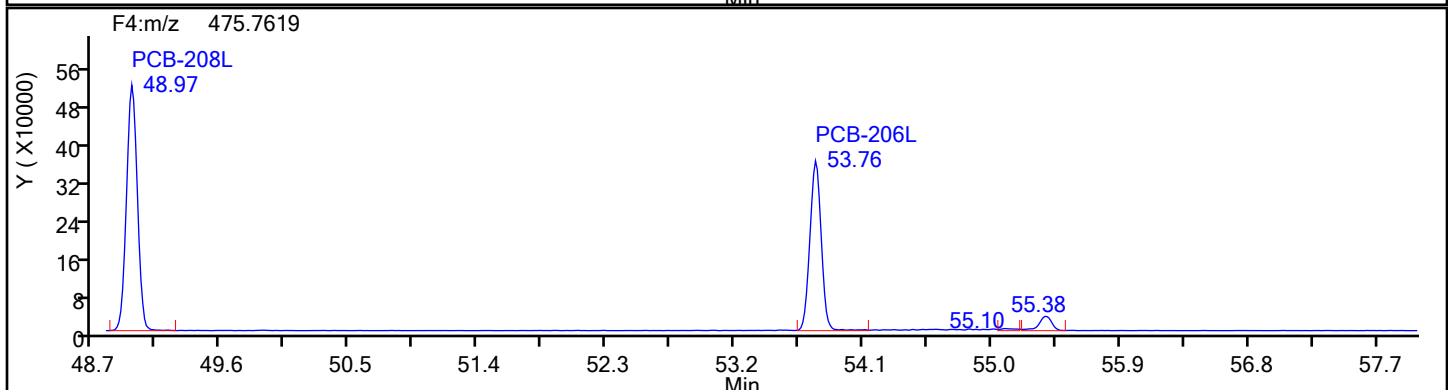
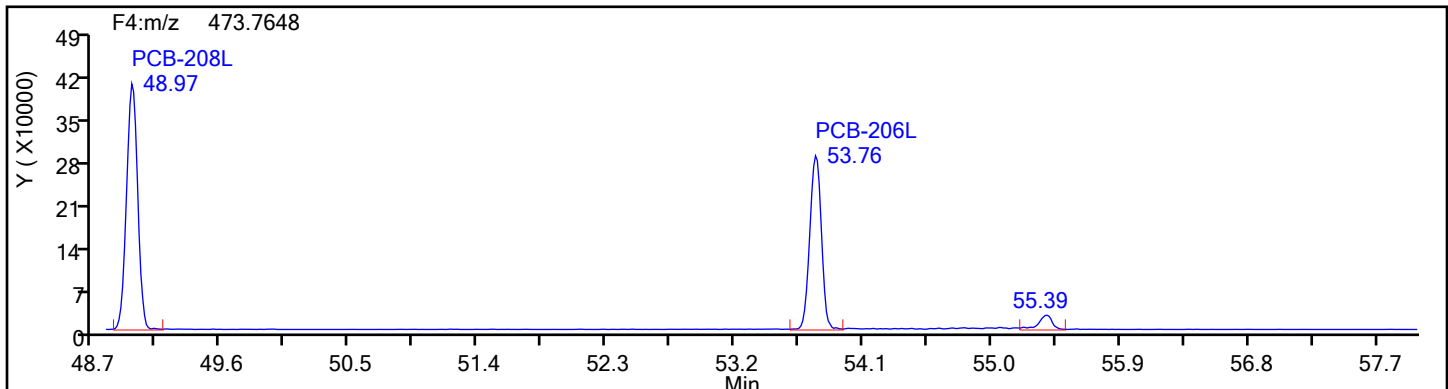
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4

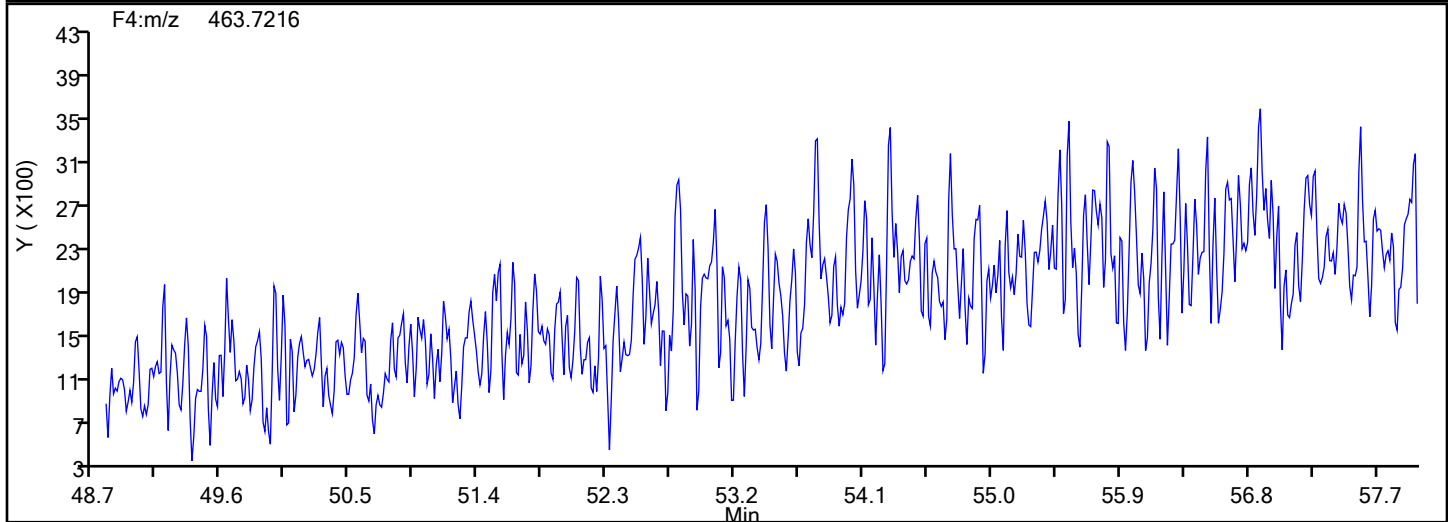
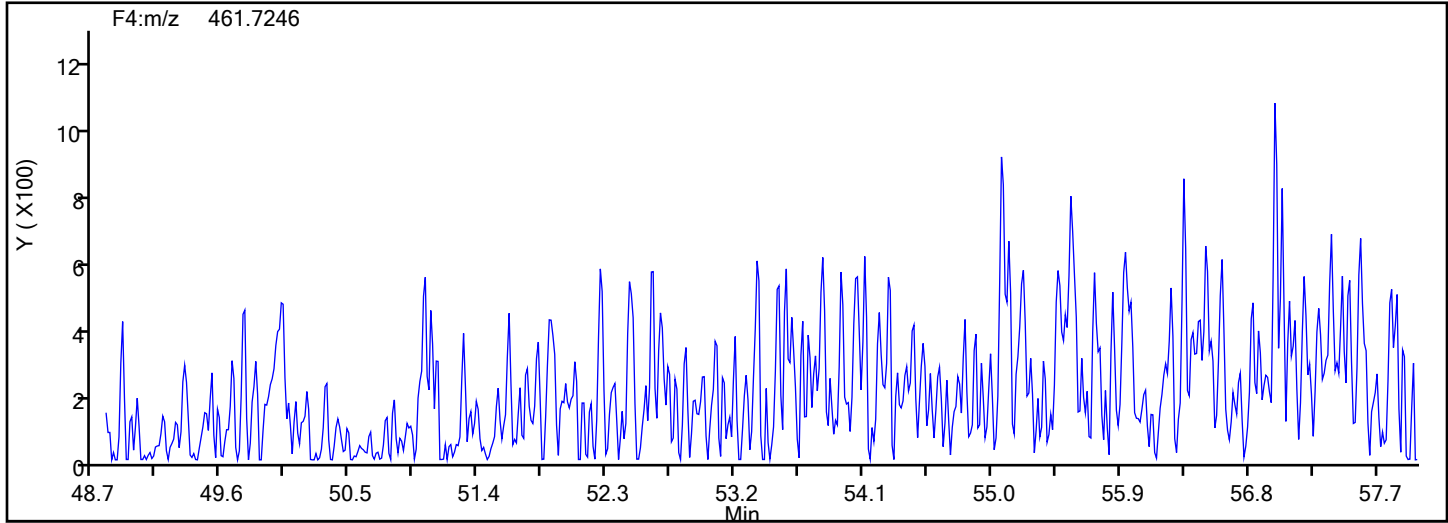


NoPCB F4 Standards

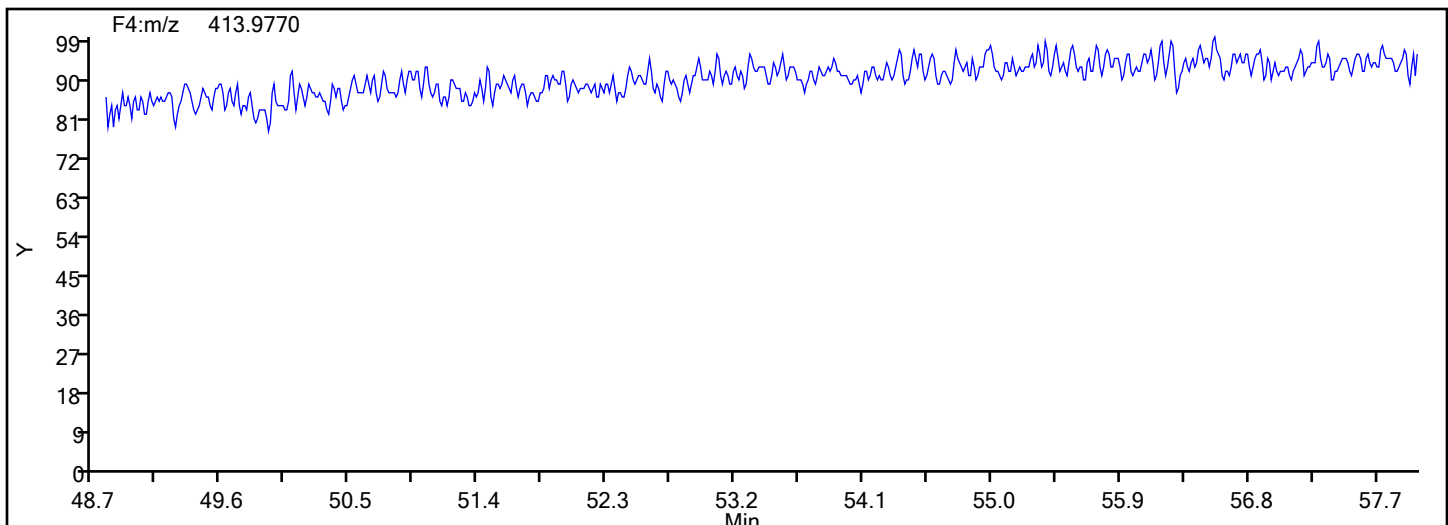


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

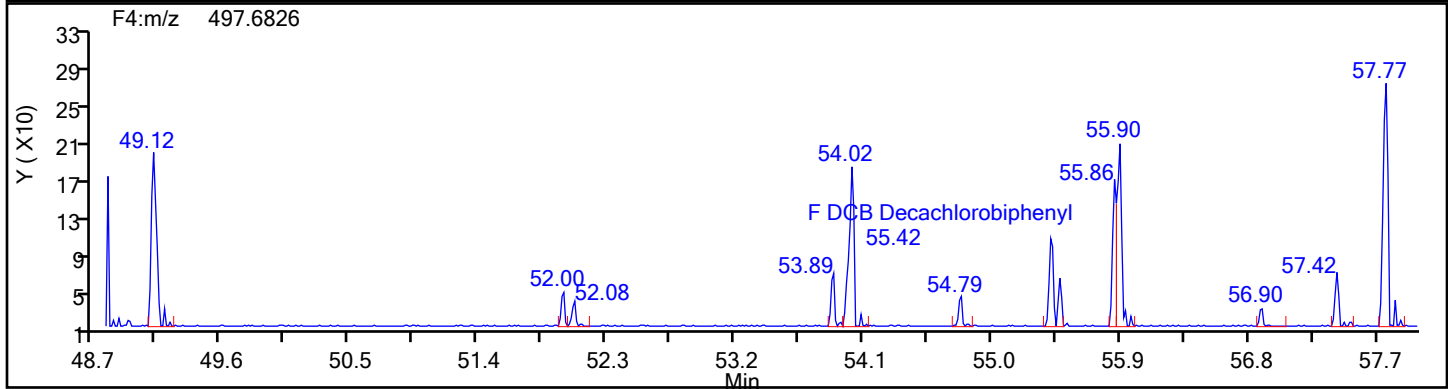
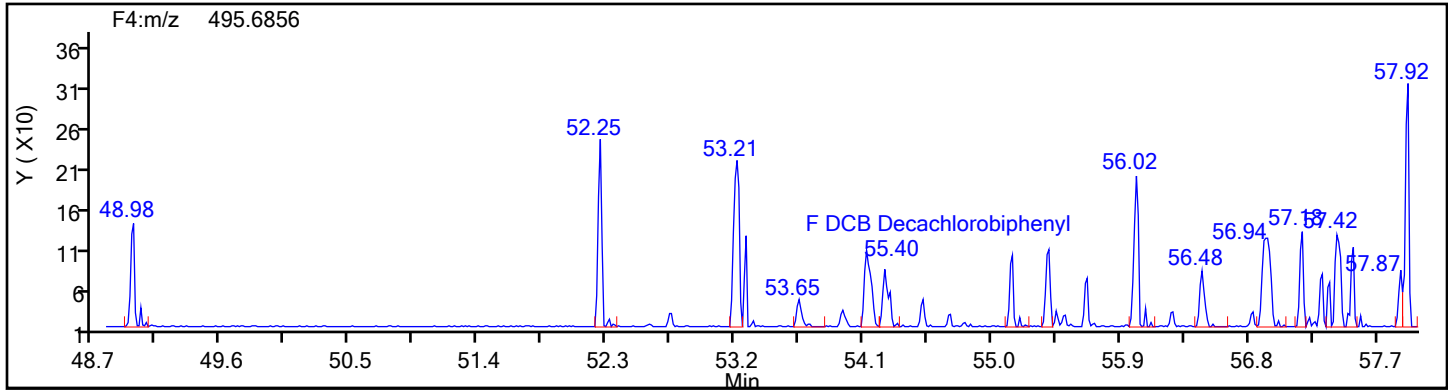


NoPCB F4 Lock Mass

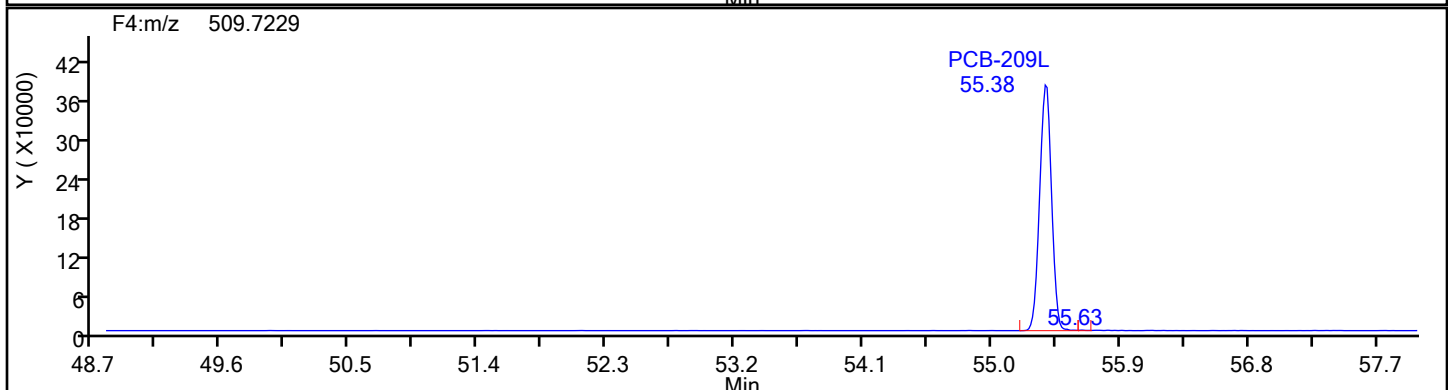
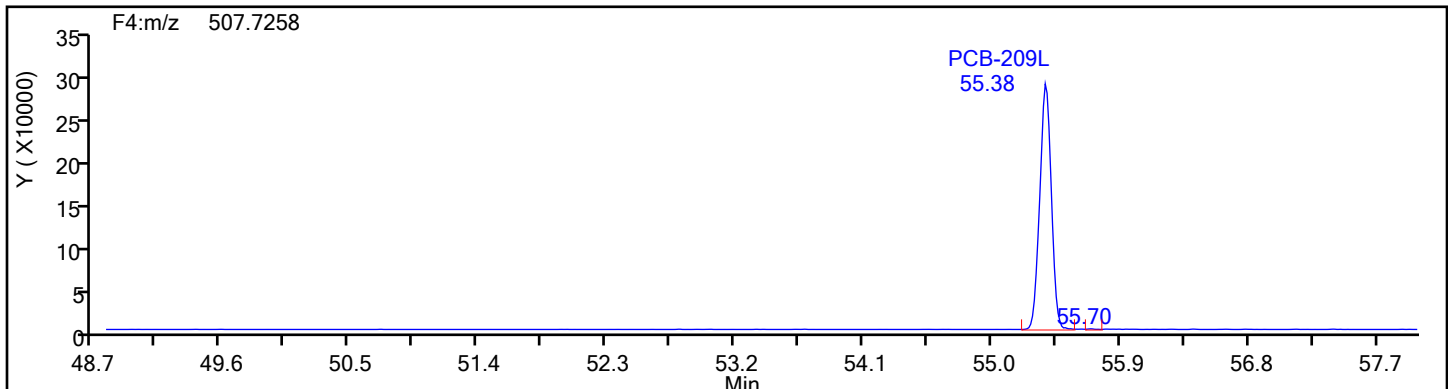


Eurofins Knoxville

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Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

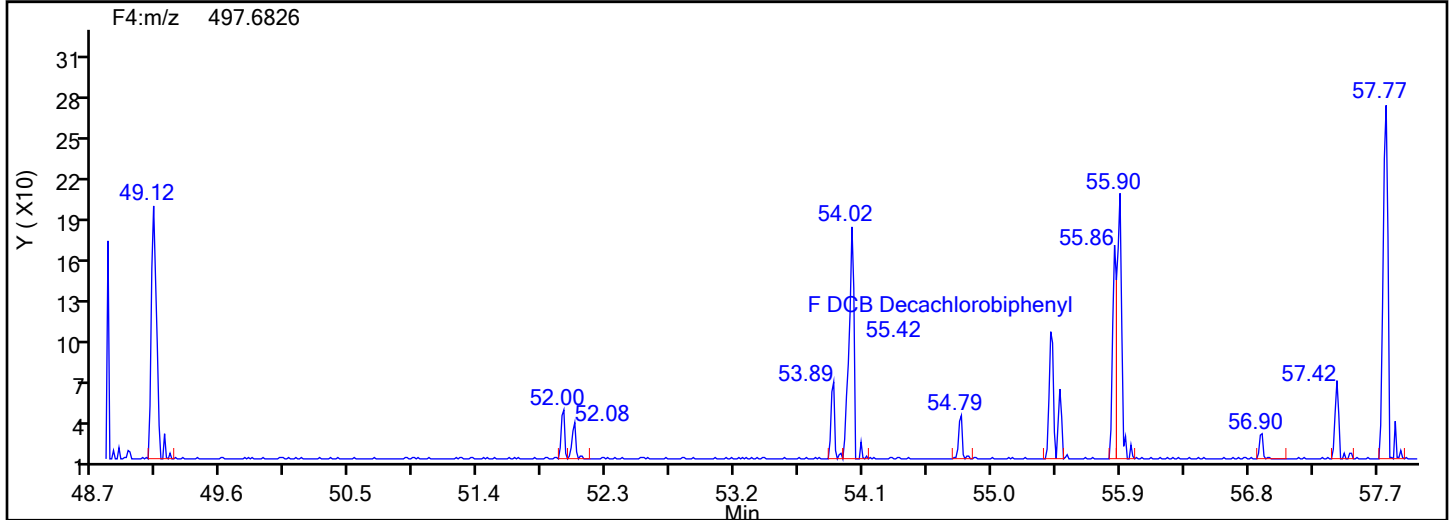
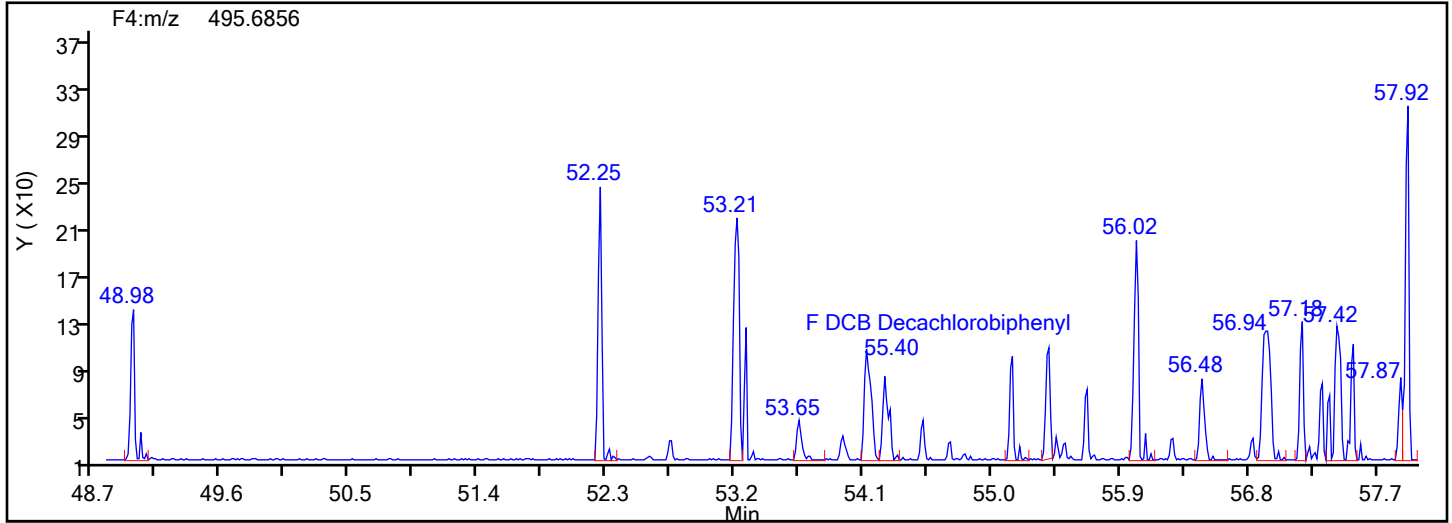


DePCB F4 Standards

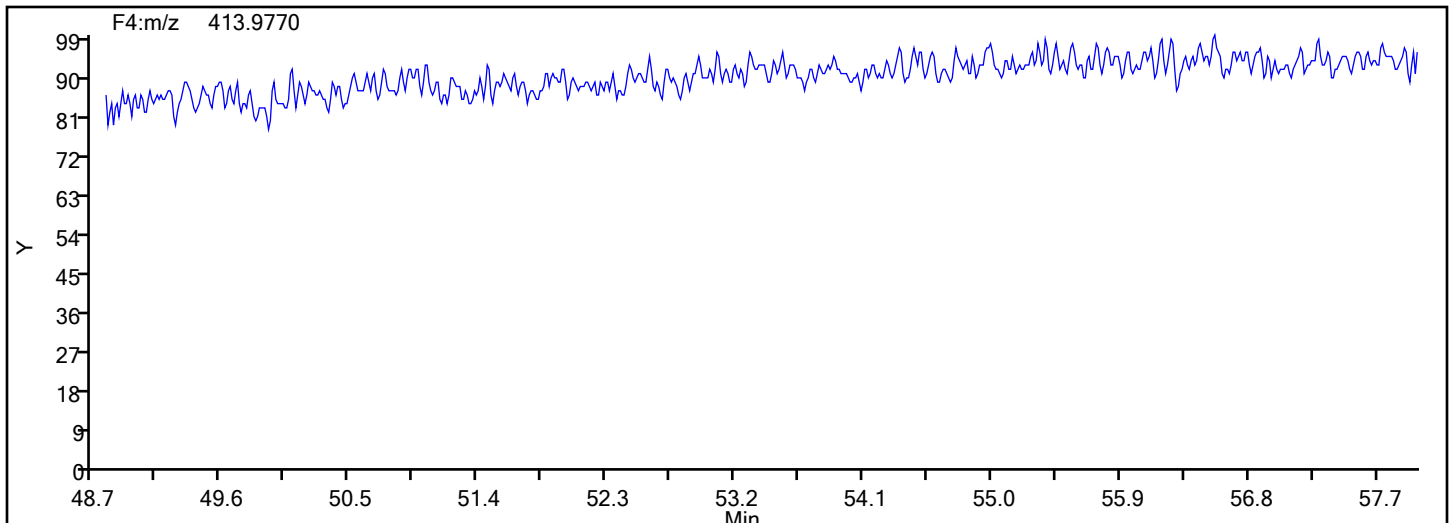


Eurofins Knoxville

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Injection Date: 11-Jun-2024 20:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Worklist#: 87502 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville

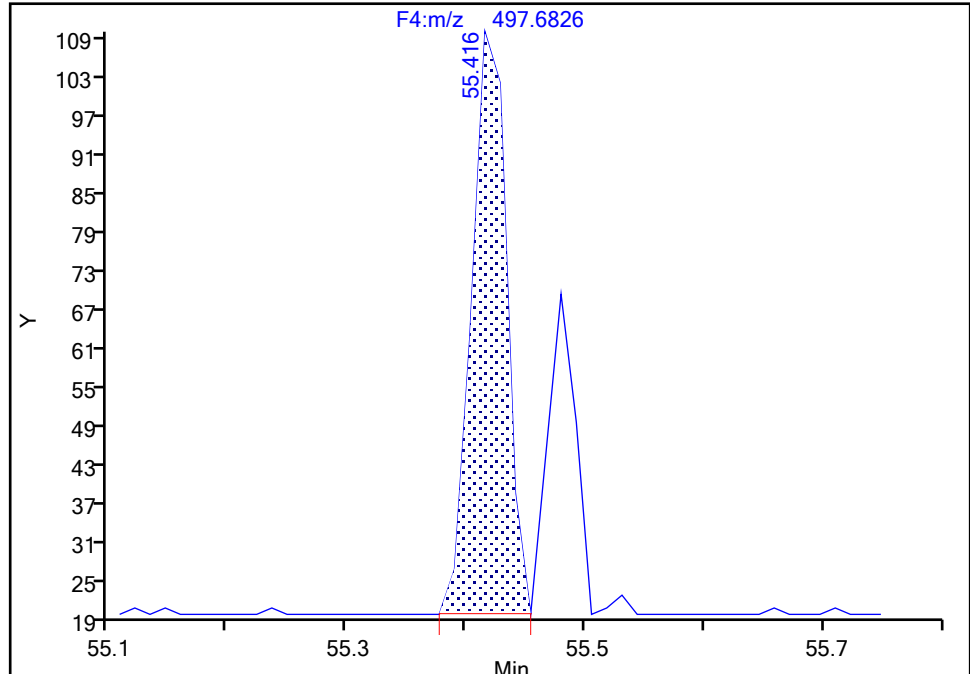
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Injection Date: 11-Jun-2024 20:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-5-C Lab Sample ID: 140-36689-5
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

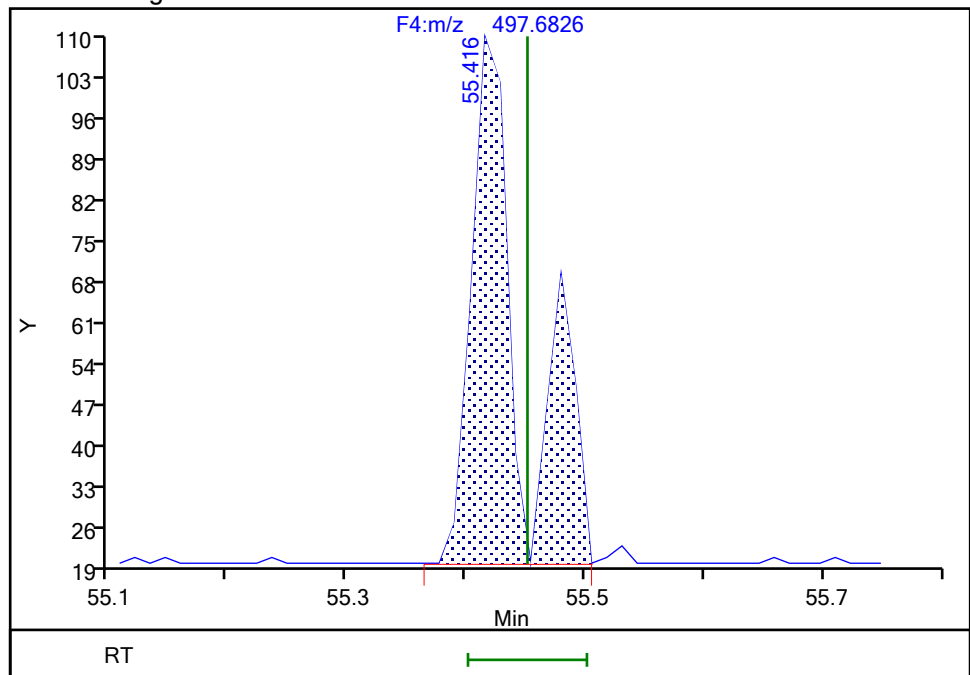
RT: 55.42
Area: 186
Amount: 0.009151
Amount Units: pg/ul

Processing Integration Results



RT: 55.42
Area: 267
Amount: 0.011072
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 12-Jun-2024 10:54:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\140-36689-a-5-c.d
Lims ID: 140-36689-A-5-C
Client ID: M23-NO.3 BOILER-RUN 5 COMBINED
Sample Type: Client
Inject. Date: 11-Jun-2024 20:09:00 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-013
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 10:54:42 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 10:55:13

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	27.8	83.30
PCB-28L	100.0	77.2	77.17
PCB-79L	33.3	34.6	103.66
PCB-95L	33.3	35.3	105.81
PCB-111L	100.0	83.5	83.54
PCB-153L	33.3	33.2	99.73
PCB-178L	100.0	88.7	88.70

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 6</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-6-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/09/2024 19:15</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/12/2024 05:36</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87536</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.821	S	0.600	0.132	0.0186
37680-65-2	PCB-18	ND	C	0.600	0.285	0.0165
7012-37-5	PCB-28	0.861	C20 B	0.600	0.252	0.0130
41464-39-5	PCB-44	3.77	C	0.900	0.390	0.0200
35693-99-3	PCB-52	0.749		0.300	0.132	0.0212
32598-10-0	PCB-66	0.195	J q	0.300	0.120	0.0155
32598-13-3	PCB-77	ND		0.300	0.126	0.0176
70362-50-4	PCB-81	ND		0.300	0.0960	0.0184
37680-73-2	PCB-101	0.869	J C90	0.900	0.390	0.00903
32598-14-4	PCB-105	0.422		0.300	0.102	0.0177
74472-37-0	PCB-114	0.0345	J	0.300	0.165	0.0193
31508-00-6	PCB-118	1.02	B	0.300	0.183	0.0170
65510-44-3	PCB-123	ND		0.300	0.171	0.0190
57465-28-8	PCB-126	ND		0.300	0.123	0.0206
38380-07-3	PCB-128	0.119	J q C	0.600	0.204	0.0105
35065-28-2	PCB-138	1.18	J C129	1.20	0.510	0.0109
35065-27-1	PCB-153	0.723	C B	0.600	0.249	0.00944
38380-08-4	PCB-156	0.0755	J C	0.600	0.255	0.0116
69782-90-7	PCB-157	0.0755	J C156	0.600	0.255	0.0116
52663-72-6	PCB-167	0.0313	J	0.300	0.180	0.00758
32774-16-6	PCB-169	ND		0.300	0.123	0.00750
35065-30-6	PCB-170	0.0245	J	0.300	0.132	0.000197
35065-29-3	PCB-180	0.0484	J C	0.600	0.204	0.000153
52663-68-0	PCB-187	0.0455	J	0.300	0.126	0.000162
39635-31-9	PCB-189	ND		0.300	0.147	0.0104
52663-78-2	PCB-195	ND		0.300	0.159	0.00367
40186-72-9	PCB-206	ND		0.300	0.171	0.0600
2051-24-3	PCB-209	0.0117	J q B	0.300	0.138	0.00100

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Client Sample ID: M23-NO.3 BOILER-RUN 6 Lab Sample ID: 140-36689-6
COMBINED
Matrix: Air Lab File ID: 140-36689-a-6-c.d
Analysis Method: 23 Date Collected: 05/09/2024 19:15
Extract. Method: Combined Prep Date Extracted: 05/31/2024 12:09
Sample wt/vol: 1(Sample) Date Analyzed: 06/12/2024 05:36
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 87536 Units: ng/Sample
Preparation Batch No.: 87206 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	77		20-130
235416-29-2	PCB-111L	84		20-130
232919-67-4	PCB-178L	84		20-130
STL01600	PCB-8L	89	S	70-130
STL01603	PCB-79L	102		70-130
STL01604	PCB-95L	106		70-130
STL01606	PCB-153L	96		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d
 Lims ID: 140-36689-A-6-C
 Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
 Sample Type: Client
 Inject. Date: 12-Jun-2024 05:36:00 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033034-011
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 12-Jun-2024 15:32:32 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1611

First Level Reviewer: P0IK

Date: 12-Jun-2024 15:32:32

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					4.517	4.517	0.0591	0.0591		
D PCB-1L	11:31	6553383	3.10	1.6108	55.3	55.3	0.5545	0.5545	55.33	
D PCB-3L	13:40	7034949	3.16	1.5891	60.2	60.2	0.5621	0.5621	60.20	
PCB-1	11:32	102723	2.66	1.2191	1.286	1.286	0.0558	0.0558		M
PCB-2	13:30	112617	2.73	1.1805	1.404	1.404	0.0603	0.0603		
PCB-3	13:41	156899	3.32	1.2206	1.827	1.827	0.0612	0.0612		
S Total Dichlorobiphenyls					36.4	35.9	0.0721	0.0721		RQ
D PCB-4L	13:55	3116059	1.63	0.6475	65.4	65.4	0.2454	0.2454	65.44	
* PCB-9L	15:56	7353118	1.60		100.0	100.0				
\$ PCB-8L	16:49	1100867	1.64	1.2066	29.6	29.6	0.2370	0.2370	88.81	a
D PCB-15L	20:03	3047926	1.62	1.0789	38.4	38.4	0.1473	0.1473	38.42	a
PCB-4	13:56	21486	1.56	1.2818	0.6510	0.5379	0.0652	0.0652		RQ
PCB-10	14:07						0.0751	0.0751		
PCB-9	15:55	18445	1.56	1.4224	0.5188	0.4207	0.0694	0.0694		RQ
PCB-7	16:06	44519	1.77	1.4134	1.022	1.022	0.0698	0.0698		a
PCB-6	16:23	51256	1.71	1.5421	1.078	1.078	0.0640	0.0640		a
PCB-5	16:50						0.0737	0.0737		U
PCB-8	16:50	133975	1.50	1.5889	2.736	2.736	0.0621	0.0621		a
PCB-14	18:20						0.0704	0.0704		
PCB-11	19:27	1154732	1.61	1.2951	28.9	28.9	0.0762	0.0762		a
PCB-12	19:39	19059	1.56	1.3358	0.5708	0.4629	0.0739	0.0739		RQa
PCB-13 (C12)	19:39	19059	1.56	1.3358	0.5708	0.4629	0.0739	0.0739		RQa
PCB-15	20:04	28019	1.56	1.2903	0.8847	0.7125	0.0933	0.0933		RQa
S Total Trichlorobiphenyls					13.2	12.1	0.0519	0.0519		RQ
D PCB-19L	17:08	1802643	1.06	0.6285	67.2	67.2	0.4629	0.4629	67.24	
* PCB-32L	20:29	4265241	1.06		100.0	100.0				
* PCB-31L	22:38	13614452	1.06		100.0	100.0				
\$ PCB-28L	22:55	10942164	1.05	1.0494	76.6	76.6	0.1980	0.1980	76.59	
D PCB-37L	26:50	9607080	1.06	0.8749	80.7	80.7	0.2374	0.2374	80.65	
PCB-19	17:09	6826	1.04	1.2809	0.3256	0.2956	0.0759	0.0759		RQ
PCB-18	18:51						0.0550	0.0550		
PCB-30 (C18)	18:51						0.0550	0.0550		
PCB-17	19:18						0.0782	0.0782		
PCB-27	19:31						0.0530	0.0530		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:46	3128	1.04	1.6777	0.1619	0.1034	0.0579	0.0579		RQ
PCB-16	19:56	11539	1.04	1.1286	0.7571	0.5672	0.0861	0.0861		RQM
PCB-32	20:30	31533	1.04	1.8324	1.085	0.9546	0.0530	0.0530		RQa
PCB-34	21:31						0.0450	0.0450		
PCB-23	21:41						0.0469	0.0469		
PCB-26	22:06	62749	1.04	1.1255	0.6379	0.5803	0.0451	0.0451		RQ
PCB-29 (C26)	22:06	62749	1.04	1.1255	0.6379	0.5803	0.0451	0.0451		RQ
PCB-25	22:20	36482	1.04	1.2728	0.4123	0.2984	0.0399	0.0399		RQa
PCB-31	22:39	282690	1.06	1.1532	2.552	2.552	0.0440	0.0440		a
PCB-20	22:56	323092	0.97	1.1718	2.870	2.870	0.0433	0.0433		
PCB-28 (C20)	22:56	323092	0.97	1.1718	2.870	2.870	0.0433	0.0433		
PCB-21	23:09	202362	1.04	1.0746	2.206	1.960	0.0472	0.0472		RQa
PCB-33 (C21)	23:09	202362	1.04	1.0746	2.206	1.960	0.0472	0.0472		RQa
PCB-22	23:33	104532	1.04	1.1932	1.119	0.9119	0.0425	0.0425		RQa
PCB-36	25:05	13629	1.04	1.1071	0.1468	0.1281	0.0458	0.0458		RQ
PCB-39	25:22						0.0438	0.0438		
PCB-38	25:56						0.0468	0.0468		
PCB-35	26:28	32061	1.04	1.1297	0.3420	0.2954	0.0449	0.0449		RQ
PCB-37	26:52	60032	0.88	1.1435	0.5464	0.5464	0.0444	0.0444		
S Total Tetrachlorobiphenyls					27.7	27.2	0.0589	0.0589		RQ
D PCB-54L	20:20	1660045	0.82	0.5562	70.0	70.0	0.0773	0.0773	69.97	a
* PCB-52L	24:42	6685773	0.80		100.0	100.0				
\$ PCB-79L	32:33	2493412	0.80	1.0018	34.0	34.0	0.3078	0.3078	102	
D PCB-81L	33:32	7063515	0.82	1.2470	84.7	84.7	0.2383	0.2383	84.73	
D PCB-77L	34:06	7577958	0.82	1.3212	85.8	85.8	0.2249	0.2249	85.79	
PCB-54	20:06						0.007894	0.007894		
PCB-50	22:23	17002	0.77	0.8578	0.3426	0.2708	0.0756	0.0756		RQa
PCB-53 (C50)	22:23	17002	0.77	0.8578	0.3426	0.2708	0.0756	0.0756		RQa
PCB-45	23:06	214605	0.76	0.8264	3.547	3.547	0.0785	0.0785		a
PCB-51 (C45)	23:06	214605	0.76	0.8264	3.547	3.547	0.0785	0.0785		a
PCB-46	23:14						0.0913	0.0913		
PCB-52	24:44	168068	0.74	0.9194	2.497	2.497	0.0705	0.0705		a
PCB-43	24:48						0.0628	0.0628		
PCB-73 (C43)	24:48						0.0628	0.0628		
PCB-49	25:13	87831	0.68	1.0685	1.123	1.123	0.0607	0.0607		a
PCB-69 (C49)	25:13	87831	0.68	1.0685	1.123	1.123	0.0607	0.0607		a
PCB-48	25:29	26799	0.77	0.8399	0.4667	0.4359	0.0772	0.0772		RQa
PCB-44	25:44	895861	0.82	0.9731	12.6	12.6	0.0666	0.0666		
PCB-47 (C44)	25:44	895861	0.82	0.9731	12.6	12.6	0.0666	0.0666		
PCB-65 (C44)	25:44	895861	0.82	0.9731	12.6	12.6	0.0666	0.0666		
PCB-59	26:01	7678	0.77	1.1853	0.1231	0.0885	0.0547	0.0547		RQ
PCB-62 (C59)	26:01	7678	0.77	1.1853	0.1231	0.0885	0.0547	0.0547		RQ
PCB-75 (C59)	26:01	7678	0.77	1.1853	0.1231	0.0885	0.0547	0.0547		RQ
PCB-42	26:13	21887	0.77	0.8097	0.4105	0.3693	0.0801	0.0801		RQa
PCB-40	26:43	36438	0.77	0.8863	0.6041	0.5616	0.0732	0.0732		RQ
PCB-41 (C40)	26:43	36438	0.77	0.8863	0.6041	0.5616	0.0732	0.0732		RQ
PCB-71 (C40)	26:43	36438	0.77	0.8863	0.6041	0.5616	0.0732	0.0732		RQ
PCB-64	26:56	53641	0.85	1.1776	0.6222	0.6222	0.0551	0.0551		
PCB-72	27:43						0.0593	0.0593		
PCB-68	28:02	171614	0.75	1.2533	1.870	1.870	0.0517	0.0517		M
PCB-57	28:25						0.0599	0.0599		
PCB-58	28:40						0.0489	0.0489		
PCB-67	28:49						0.0456	0.0456		
PCB-63	29:05						0.0577	0.0577		
PCB-61	29:28	180485	0.76	1.2612	1.955	1.955	0.0514	0.0514		
PCB-70 (C61)	29:28	180485	0.76	1.2612	1.955	1.955	0.0514	0.0514		
PCB-74 (C61)	29:28	180485	0.76	1.2612	1.955	1.955	0.0514	0.0514		
PCB-76 (C61)	29:28	180485	0.76	1.2612	1.955	1.955	0.0514	0.0514		
PCB-66	29:46	59927	0.77	1.2583	0.7758	0.6506	0.0515	0.0515		RQ
PCB-55	29:54						0.0490	0.0490		
PCB-56	30:26	32048	0.77	1.2334	0.4344	0.3549	0.0526	0.0526		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:37	21281	0.77	1.1230	0.3175	0.2588	0.0577	0.0577		RQ
PCB-80	31:03						0.0490	0.0490		
PCB-79	32:34						0.0451	0.0451		
PCB-78	33:07						0.0558	0.0558		
PCB-81	33:33						0.0614	0.0614		
PCB-77	34:07						0.0586	0.0586		
S Total Pentachlorobiphenyls					20.2	20.1	0.0410	0.0410		RQ
D PCB-104L	25:38	4997583	1.62	1.2161	93.4	93.4	0.0503	0.0503	93.39	
\$ PCB-95L	28:34	1274281	1.64	0.7218	35.3	35.3	0.0693	0.0693	106	
* PCB-101L	31:29	4400330	1.57		100.0	100.0				
\$ PCB-111L	34:09	5036229	1.62	1.3699	83.5	83.5	0.0447	0.0447	83.55	
D PCB-123L	36:06	7309602	1.58	0.9731	94.0	94.0	1.068	1.068	93.97	
D PCB-118L	36:26	7503400	1.59	1.0102	92.9	92.9	1.029	1.029	92.93	
D PCB-114L	36:57	7370865	1.59	0.9949	92.7	92.7	1.045	1.045	92.69	
D PCB-105L	37:36	7161844	1.60	0.9514	94.2	94.2	1.093	1.093	94.18	
* PCB-127L	39:04	7992943	1.60		100.0	100.0				
D PCB-126L	40:40	6948560	1.60	0.9439	92.1	92.1	1.102	1.102	92.10	
PCB-104	25:36						0.0285	0.0285		
PCB-96	26:03	2100	1.56	1.0940	0.0384	0.0384	0.0263	0.0263		
PCB-103	27:54						0.0329	0.0329		
PCB-94	28:07						0.0376	0.0376		
PCB-95	28:35	64209	1.51	0.8033	1.599	1.599	0.0358	0.0358		
PCB-93	28:47						0.0341	0.0341		
PCB-100 (C93)	28:47						0.0341	0.0341		
PCB-98	28:58	7986	1.69	0.8262	0.1934	0.1934	0.0348	0.0348		
PCB-102 (C98)	28:58	7986	1.69	0.8262	0.1934	0.1934	0.0348	0.0348		
PCB-88	29:27	12688	1.50	0.8013	0.3168	0.3168	0.0359	0.0359		
PCB-91 (C88)	29:27	12688	1.50	0.8013	0.3168	0.3168	0.0359	0.0359		
PCB-84	29:38	21690	1.70	0.7299	0.5946	0.5946	0.0394	0.0394		a
PCB-89	30:07						0.0368	0.0368		
PCB-121	30:32						0.0222	0.0222		
PCB-92	30:56	17728	1.55	0.8546	0.4787	0.4151	0.0336	0.0336		RQM
PCB-90	31:30	138314	1.42	0.9550	2.898	2.898	0.0301	0.0301		
PCB-101 (C90)	31:30	138314	1.42	0.9550	2.898	2.898	0.0301	0.0301		
PCB-113 (C90)	31:30	138314	1.42	0.9550	2.898	2.898	0.0301	0.0301		
PCB-83	32:05	57495	1.59	0.8385	1.372	1.372	0.0343	0.0343		
PCB-99 (C83)	32:05	57495	1.59	0.8385	1.372	1.372	0.0343	0.0343		
PCB-112	32:11						0.0204	0.0204		
PCB-86	32:40	132125	1.55	1.0473	2.524	2.524	0.0274	0.0274		
PCB-87 (C86)	32:40	132125	1.55	1.0473	2.524	2.524	0.0274	0.0274		
PCB-97 (C86)	32:40	132125	1.55	1.0473	2.524	2.524	0.0274	0.0274		
PCB-109 (C86)	32:40	132125	1.55	1.0473	2.524	2.524	0.0274	0.0274		
PCB-119 (C86)	32:40	132125	1.55	1.0473	2.524	2.524	0.0274	0.0274		
PCB-125 (C86)	32:40	132125	1.55	1.0473	2.524	2.524	0.0274	0.0274		
PCB-85	33:17	24693	1.72	1.0408	0.4747	0.4747	0.0276	0.0276		M
PCB-116 (C85)	33:17	24693	1.72	1.0408	0.4747	0.4747	0.0276	0.0276		M
PCB-117 (C85)	33:17	24693	1.72	1.0408	0.4747	0.4747	0.0276	0.0276		M
PCB-110	33:28	222562	1.72	1.1919	3.737	3.737	0.0241	0.0241		a
PCB-115 (C110)	33:28	222562	1.72	1.1919	3.737	3.737	0.0241	0.0241		a
PCB-82	33:47	22807	1.50	0.8303	0.5496	0.5496	0.0346	0.0346		M
PCB-111	34:10						0.0237	0.0237		
PCB-120	34:37						0.0195	0.0195		
PCB-108	35:47	15849	1.43	1.1405	0.1914	0.1914	0.0615	0.0615		
PCB-124 (C108)	35:47	15849	1.43	1.1405	0.1914	0.1914	0.0615	0.0615		
PCB-107	36:00	23704	1.55	1.2121	0.3064	0.2694	0.0579	0.0579		RQa
PCB-123	36:07						0.0633	0.0633		
PCB-106	36:14						0.0647	0.0647		
PCB-118	36:27	307141	1.56	1.2055	3.395	3.395	0.0567	0.0567		
PCB-122	36:47						0.0734	0.0734		
PCB-114	36:57	9198	1.44	1.0842	0.1151	0.1151	0.0644	0.0644		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:37	119742	1.63	1.1879	1.407	1.407	0.0591	0.0591		
PCB-127	39:06						0.0616	0.0616		
PCB-126	40:42						0.0685	0.0685		
S Total Hexachlorobiphenyls					14.7	14.3	0.0272	0.0272		RQ
D PCB-155L	31:15	4572431	1.30	1.0851	95.8	95.8	0.0526	0.0526	95.76	
\$ PCB-153L	38:18	1836225	1.27	0.9169	32.0	32.0	0.0723	0.0723	95.99	
* PCB-138L	39:32	5548152	1.28		100.0	100.0				
D PCB-167L	42:32	6409174	1.29	1.2572	91.9	91.9	0.0495	0.0495	91.88	
D PCB-156L	43:41	12341332	1.28	1.2106	183.7	183.7	0.0514	0.0514	91.87	
D PCB-157L (C156L)	43:41	12341332	1.28	1.2106	183.7	183.7	0.0514	0.0514	91.87	
D PCB-169L	46:55	6282992	1.29	1.2439	91.0	91.0	0.0500	0.0500	91.04	
PCB-155	31:16						0.003602	0.003602		
PCB-152	31:27						0.003438	0.003438		
PCB-150	31:37						0.003357	0.003357		
PCB-136	32:00	8903	1.24	1.0116	0.2156	0.1925	0.003363	0.003363		RQ
PCB-145	32:16						0.003512	0.003512		
PCB-148	33:48						0.004474	0.004474		
PCB-135	34:27	21156	1.24	0.7256	0.7072	0.6377	0.004688	0.004688		RQ
PCB-151 (C135)	34:27	21156	1.24	0.7256	0.7072	0.6377	0.004688	0.004688		RQ
PCB-154	34:38						0.004185	0.004185		
PCB-144	34:56	3890	1.24	0.7852	0.1591	0.1083	0.004332	0.004332		RQMa
PCB-147	35:19	119877	1.38	0.8950	2.140	2.140	0.0384	0.0384		
PCB-149 (C147)	35:19	119877	1.38	0.8950	2.140	2.140	0.0384	0.0384		
PCB-134	35:32	15174	1.20	0.7967	0.3043	0.3043	0.0432	0.0432		a
PCB-143 (C134)	35:32	15174	1.20	0.7967	0.3043	0.3043	0.0432	0.0432		a
PCB-139	35:54						0.0392	0.0392		
PCB-140 (C139)	35:54						0.0392	0.0392		
PCB-131	36:06						0.0458	0.0458		
PCB-142	36:15						0.0458	0.0458		
PCB-132	36:34	80272	1.32	0.7489	1.713	1.713	0.0459	0.0459		
PCB-133	37:04						0.0425	0.0425		
PCB-165	37:28						0.0336	0.0336		
PCB-146	37:42	22789	1.24	0.9637	0.4229	0.3779	0.0357	0.0357		RQM
PCB-161	37:51						0.0305	0.0305		
PCB-153	38:19	165031	1.25	1.0938	2.411	2.411	0.0315	0.0315		
PCB-168 (C153)	38:19	165031	1.25	1.0938	2.411	2.411	0.0315	0.0315		
PCB-141	38:31	36062	1.30	0.8755	0.6581	0.6581	0.0393	0.0393		
PCB-130	38:56	11324	1.24	0.7051	0.2977	0.2566	0.0488	0.0488		RQ
PCB-137	39:10	14811	1.24	0.7767	0.3427	0.3047	0.0443	0.0443		RQM
PCB-164	39:15	11463	1.36	1.0382	0.1764	0.1764	0.0331	0.0331		
PCB-129	39:34	233027	1.32	0.9464	3.934	3.934	0.0363	0.0363		
PCB-138 (C129)	39:34	233027	1.32	0.9464	3.934	3.934	0.0363	0.0363		
PCB-160 (C129)	39:34	233027	1.32	0.9464	3.934	3.934	0.0363	0.0363		
PCB-163 (C129)	39:34	233027	1.32	0.9464	3.934	3.934	0.0363	0.0363		
PCB-158	39:57	26235	1.23	1.3110	0.3197	0.3197	0.0262	0.0262		
PCB-128	40:51	24461	1.24	0.9829	0.5101	0.3976	0.0350	0.0350		RQ
PCB-166 (C128)	40:51	24461	1.24	0.9829	0.5101	0.3976	0.0350	0.0350		RQ
PCB-159	41:48						0.0248	0.0248		
PCB-162	42:05						0.0274	0.0274		
PCB-167	42:34	7460	1.41	1.1159	0.1043	0.1043	0.0253	0.0253		
PCB-156	43:42	17236	1.41	1.1104	0.2515	0.2515	0.0388	0.0388		
PCB-157 (C156)	43:42	17236	1.41	1.1104	0.2515	0.2515	0.0388	0.0388		
PCB-169	46:57						0.0250	0.0250		
S Total Heptachlorobiphenyls					1.033	0.9337	0.002179	0.002179		RQ
D PCB-188L	36:57	5329809	1.04	1.3133	93.2	93.2	0.0631	0.0631	93.23	
\$ PCB-178L	40:00	3769388	1.11	1.0313	84.0	84.0	0.0803	0.0803	83.96	
* PCB-180L	45:05	4353117	1.08		100.0	100.0				
D PCB-170L	46:19	3502050	1.06	0.8362	96.2	96.2	0.0991	0.0991	96.21	
D PCB-189L	49:26	8342937	1.06	1.4414	96.9	96.9	0.1746	0.1746	96.93	
PCB-188	36:58						0.000425	0.000425		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:20	5411	1.03	1.4276	0.0858	0.0858	0.000417	0.000417		
PCB-184	37:50						0.000436	0.000436		
PCB-176	38:09	683	1.05	1.2331	0.0190	0.0125	0.000483	0.000483		RQa
PCB-186	38:39						0.000404	0.000404		
PCB-178	40:02	264	1.05	0.8946	0.009543	0.006683	0.000666	0.000666		RQ
PCB-175	40:39						0.000625	0.000625		
PCB-187	40:56	7372	0.94	1.1018	0.1515	0.1515	0.000540	0.000540		
PCB-182	41:08						0.000644	0.000644		
PCB-183	41:33	7009	1.07	0.9825	0.1615	0.1615	0.000606	0.000606		M
PCB-185 (C183)	41:33	7009	1.07	0.9825	0.1615	0.1615	0.000606	0.000606		M
PCB-174	41:47	6735	1.05	0.9642	0.1921	0.1582	0.000618	0.000618		RQM
PCB-177	42:13	2355	1.05	0.9773	0.0836	0.0546	0.000609	0.000609		RQ
PCB-181	42:36						0.000626	0.000626		
PCB-171	42:50	2066	1.05	0.9336	0.0737	0.0501	0.000638	0.000638		RQM
PCB-173 (C171)	42:50	2066	1.05	0.9336	0.0737	0.0501	0.000638	0.000638		RQM
PCB-172	44:24						0.000699	0.000699		RQU
PCB-192	44:44						0.000442	0.000442		
PCB-180	45:07	8313	1.04	1.1676	0.1612	0.1612	0.000510	0.000510		M
PCB-193 (C180)	45:07	8313	1.04	1.1676	0.1612	0.1612	0.000510	0.000510		M
PCB-191	45:27						0.000462	0.000462		RQMU
PCB-170	46:23	3396	0.96	1.1865	0.0817	0.0817	0.000656	0.000656		M
PCB-190	46:53	576	1.05	1.3322	0.0130	0.009791	0.000447	0.000447		RQ
PCB-189	49:28						0.0348	0.0348		
S Total Octachlorobiphenyls					0.1710	0.0768	0.007460	0.007460		RQ
D PCB-202L	42:18	4033935	0.90	0.9818	94.4	94.4	0.0153	0.0153	94.38	
* PCB-194L	51:33	5971393	0.91		100.0	100.0				
D PCB-205L	52:01	6547478	0.91	1.1786	93.0	93.0	0.0573	0.0573	93.04	
PCB-202	42:20						0.005820	0.005820		
PCB-201	43:15						0.006181	0.006181		
PCB-204	43:55						0.005750	0.005750		
PCB-197	44:09						0.005262	0.005262		
PCB-200	44:12	526	0.89	1.0072	0.0280	0.0129	0.005986	0.005986		RQ
PCB-198	47:02						0.006932	0.006932		
PCB-199 (C198)	47:02						0.006932	0.006932		
PCB-196	47:44	1705	0.89	0.7806	0.1263	0.0541	0.007723	0.007723		RQ
PCB-203	47:54						0.006488	0.006488		
PCB-195	49:13						0.0122	0.0122		
PCB-194	51:32	621	0.89	0.9735	0.0167	0.009743	0.0104	0.0104		RQ
PCB-205	52:02						0.009297	0.009297		
S Total Nonachlorobiphenyls							0.2000	0.2000		
D PCB-208L	48:58	5857068	0.79	0.9576	102.4	102.4	0.2206	0.2206	102	
D PCB-206L	53:46	4070857	0.80	0.6947	98.1	98.1	0.3041	0.3041	98.13	
PCB-208	49:00						0.1577	0.1577		
PCB-207	49:55						0.1560	0.1560		
PCB-206	53:47						0.2000	0.2000		
D PCB-209L	55:23	4281607	0.72	0.6669	107.5	107.5	0.0627	0.0627	108	
DCB Decachlorobiphenyl	55:25	1836	0.69	1.1004	0.0758	0.0390	0.003333	0.003333		RQ
S Polychlorinated biphenyls, Total					113.4	0.0390	0.0516	0.0516		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d
Lims ID: 140-36689-A-6-C
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Sample Type: Client
Inject. Date: 12-Jun-2024 05:36:00 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033034-011
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 15:32:32 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1611

First Level Reviewer: P0IK

Date: 12-Jun-2024 15:32:32

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:31	11:34	-2	0.723	4953675	1910101	1283	3207	1489		
202.0766	11:31	11:34	-2	0.723	1599708	614891	3994	9985	154	3.10(2.66-3.60)	
PCB-3L											
200.0795	13:40	13:42	0	0.858	5343326	1755335	1283	3207	1368		
202.0766	13:40	13:42	0	0.858	1691623	543456	3994	9985	136	3.16(2.66-3.60)	
PCB-1											
188.0393	11:32	11:32	-2	1.001	74654	29575	327	817	90		M
190.0363	11:32	11:32	-2	1.001	28069	10969	360	900	30	2.66(2.66-3.60)	M
PCB-2											
188.0393	13:30	13:31	-1	0.987	82433	27601	327	817	84		
190.0363	13:30	13:31	-1	0.987	30184	9045	360	900	25	2.73(2.66-3.60)	
PCB-3											
188.0393	13:41	13:41	0	1.001	120603	34676	327	817	106		
190.0363	13:41	13:41	0	1.001	36296	11985	360	900	33	3.32(2.66-3.60)	
PCB-4L											
234.0406	13:55	13:58	-1	0.874	1930400	591596	702	1755	843		
236.0376	13:55	13:58	-1	0.874	1185659	376932	237	592	1590	1.63(1.33-1.79)	
PCB-9L											
234.0406	15:56	15:53	3		4523468	906515	702	1755	1291		
236.0376	15:55	15:53	2		2829650	570302	237	592	2406	1.60(1.33-1.79)	
PCB-8L											
234.0406	16:49	16:49	6	1.208	683226	99040	702	1755	141		a
236.0376	16:48	16:49	5	1.207	417641	61174	237	592	258	1.64(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											a
234.0406	20:03	20:03	16	1.258	1884088	417765	702	1755	595		a
236.0376	20:03	20:03	16	1.258	1163838	255337	237	592	1077	1.62(1.33-1.79)	
PCB-4											RQ
222.0003	13:56	13:55	-1	1.001	17611	5059	150	375	34		
	Empc Correction				13093	3628	150	375	24		
223.9974	13:57	13:55	0	1.002	8393	2326	174	435	13	2.10(1.33-1.79)	
PCB-10											
222.0003	14:07						150	375			
223.9974	14:07						174	435			
PCB-9											RQ
222.0003	15:55	15:53	2	1.144	11240	2188	150	375	15		
223.9974	15:58	15:53	4	1.147	11503	2023	174	435	12	0.98(1.33-1.79)	
	Empc Correction				7205	1402	174	435	8		
PCB-7											a
222.0003	16:06	16:06	2	1.157	28456	5485	150	375	37		a
223.9974	16:06	16:06	2	1.157	16063	3957	174	435	23	1.77(1.33-1.79)	
PCB-6											a
222.0003	16:23	16:23	5	1.177	32342	5153	150	375	34		a
223.9974	16:22	16:23	4	1.176	18914	3985	174	435	23	1.71(1.33-1.79)	
PCB-5											U
222.0003	16:50						150	375			
223.9974	16:50						174	435			
PCB-8											a
222.0003	16:50	16:50	5	1.209	80437	11536	150	375	77		a
223.9974	16:48	16:50	4	1.207	53538	7929	174	435	46	1.50(1.33-1.79)	
PCB-14											
222.0003	18:36						150	375			
223.9974	18:36						174	435			
PCB-11											a
222.0003	19:27	19:27	16	0.970	712749	138928	150	375	926		a
223.9974	19:27	19:27	16	0.970	441983	82912	174	435	477	1.61(1.33-1.79)	
PCB-12											RQa
222.0003	19:39	19:39	10	0.980	16056	1968	150	375	13		a
	Empc Correction				11614	2787	150	375	19		
223.9974	19:41	19:39	12	0.982	7445	1787	174	435	10	2.16(1.33-1.79)	
PCB-13 (C12)											RQa
222.0003	19:39	19:39	10	0.980	16056	1968	150	375	13		a
	Empc Correction				11614	2787	150	375	19		
223.9974	19:41	19:39	12	0.982	7445	1787	174	435	10	2.16(1.33-1.79)	
PCB-15											RQa
222.0003	20:04	20:04	16	1.001	23848	5130	150	375	34		a
	Empc Correction				17074	4127	150	375	28		
223.9974	20:04	20:04	16	1.001	10945	2646	174	435	15	2.18(1.33-1.79)	
PCB-19L											
268.0016	17:08	17:05	7	0.836	925592	162412	776	1940	209		
269.9986	17:08	17:05	7	0.836	877051	148417	374	935	397	1.06(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:29	20:15	14		2198976	506920	776	1940	653		
269.9986	20:29	20:15	14		2066265	481180	374	935	1287	1.06(0.88-1.20)	
PCB-31L											
268.0016	22:38	22:31	7		6993498	1593562	1516	3790	1051		
269.9986	22:38	22:31	7		6620954	1505138	1059	2647	1421	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:55	22:54	7	1.012	5615340	1229620	1516	3790	811		
269.9986	22:55	22:54	7	1.012	5326824	1156167	1059	2647	1092	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:50	26:56	3	1.186	4949860	1064955	1516	3790	702		
269.9986	26:50	26:56	3	1.186	4657220	1004691	1059	2647	949	1.06(0.88-1.20)	
PCB-19											
255.9613	17:09	17:05	6	1.001	3480	662	97	242	7		RQ
257.9584	17:07	17:05	5	0.999	4037	813	24	60	34	0.86(0.88-1.20)	
	Empc Correction				3346	636	24	60	27		
PCB-18											
255.9613	18:59						97	242			
257.9584	18:59						24	60			
PCB-30 (C18)											
255.9613	18:59						97	242			
257.9584	18:59						24	60			
PCB-17											
255.9613	19:26						97	242			
257.9584	19:26						24	60			
PCB-27											
255.9613	19:39						97	242			
257.9584	19:39						24	60			
PCB-24											
255.9613	19:46	19:41	8	1.154	1595	454	97	242	5		RQ
257.9584	19:44	19:41	5	1.152	3302	725	24	60	30	0.48(0.88-1.20)	
	Empc Correction				1533	436	24	60	18		
PCB-16											
255.9613	19:56	20:03	10	1.164	5883	727	97	242	7		RQM
257.9584	20:03	20:03	17	1.170	9520	1296	24	60	54	0.62(0.88-1.20)	M
	Empc Correction				5656	699	24	60	29		
PCB-32											
255.9613	20:30	20:30	13	1.197	16076	3872	97	242	40		RQa
257.9584	20:30	20:30	14	1.197	19752	3424	24	60	143	0.81(0.88-1.20)	a
	Empc Correction				15457	3723	24	60	155		
PCB-34											
255.9613	21:40						208	520			
257.9584	21:40						212	530			
PCB-23											
255.9613	21:50						208	520			
257.9584	21:50						212	530			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-26											RQ
255.9613	22:06	22:03	7	1.291	31990	7794	208	520	37		
257.9584	22:07	22:03	7	1.292	36984	6327	212	530	30	0.86(0.88-1.20)	
Empc Correction					30759	7494	212	530	35		
PCB-29 (C26)											RQ
255.9613	22:06	22:03	7	1.291	31990	7794	208	520	37		
257.9584	22:07	22:03	7	1.292	36984	6327	212	530	30	0.86(0.88-1.20)	
Empc Correction					30759	7494	212	530	35		
PCB-25											RQa
255.9613	22:20	22:20	7	0.832	18599	4129	208	520	20		a
257.9584	22:20	22:20	7	0.832	31814	5287	212	530	25	0.58(0.88-1.20)	
Empc Correction					17883	3970	212	530	19		
PCB-31											a
255.9613	22:39	22:39	7	0.844	145467	34019	208	520	164		a
257.9584	22:39	22:39	8	0.844	137223	30640	212	530	145	1.06(0.88-1.20)	
PCB-20											
255.9613	22:56	22:53	6	0.854	158958	35100	208	520	169		
257.9584	22:56	22:53	6	0.854	164134	34302	212	530	162	0.97(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:56	22:53	6	0.854	158958	35100	208	520	169		
257.9584	22:56	22:53	6	0.854	164134	34302	212	530	162	0.97(0.88-1.20)	
PCB-21											RQa
255.9613	23:09	23:09	10	0.863	103165	19404	208	520	93		a
257.9584	23:10	23:09	10	0.863	124556	23180	212	530	109	0.83(0.88-1.20)	
Empc Correction					99197	18657	212	530	88		
PCB-33 (C21)											RQa
255.9613	23:09	23:09	10	0.863	103165	19404	208	520	93		a
257.9584	23:10	23:09	10	0.863	124556	23180	212	530	109	0.83(0.88-1.20)	
Empc Correction					99197	18657	212	530	88		
PCB-22											RQa
255.9613	23:33	23:33	6	0.878	53291	13611	208	520	65		a
257.9584	23:33	23:33	6	0.878	75027	14179	212	530	67	0.71(0.88-1.20)	
Empc Correction					51241	13087	212	530	62		
PCB-36											RQ
255.9613	25:05	25:00	5	0.935	8929	1718	208	520	8		
Empc Correction					6948	1232	208	520	6		
257.9584	25:04	25:00	3	0.934	6681	1185	212	530	6	1.34(0.88-1.20)	
PCB-39											
255.9613	25:24						208	520			
257.9584	25:24						212	530			
PCB-38											
255.9613	25:59						208	520			
257.9584	25:59						212	530			
PCB-35											RQ
255.9613	26:28	26:24	4	0.986	16345	3753	208	520	18		
257.9584	26:28	26:24	4	0.986	20777	5321	212	530	25	0.79(0.88-1.20)	
Empc Correction					15716	3608	212	530	17		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37											
255.9613	26:52	26:50	3	1.001	28102	5735	208	520	28		
257.9584	26:51	26:50	3	1.000	31930	5920	212	530	28	0.88(0.88-1.20)	
PCB-54L											
301.9626	20:20	20:20	16	0.823	749256	164640	126	315	1307		a
303.9597	20:20	20:20	16	0.823	910789	203473	44	110	4624	0.82(0.65-0.89)	a
PCB-52L											
301.9626	24:42	24:38	4		2970941	664451	1002	2505	663		
303.9597	24:42	24:38	4		3714832	839790	786	1965	1068	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:33	32:32	1	0.971	1110537	225764	1002	2505	225		
303.9597	32:33	32:32	1	0.971	1382875	284618	786	1965	362	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:32	33:37	1	1.358	3184178	641238	1002	2505	640		
303.9597	33:32	33:37	1	1.358	3879337	776376	786	1965	988	0.82(0.65-0.89)	
PCB-77L											
301.9626	34:06	34:12	0	1.381	3408576	669906	1002	2505	669		
303.9597	34:06	34:12	0	1.381	4169382	811664	786	1965	1033	0.82(0.65-0.89)	
PCB-54											
289.9224	20:06						6	15			
291.9194	20:06						9	22			
PCB-50											
289.9224	22:23	22:23	7	1.100	11907	2466	94	235	26		RQa
	Empc Correction				7396	1855	94	235	20		a
291.9194	22:23	22:23	7	1.100	9606	2410	282	705	9	1.24(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:23	22:23	7	1.100	11907	2466	94	235	26		RQa
	Empc Correction				7396	1855	94	235	20		a
291.9194	22:23	22:23	7	1.100	9606	2410	282	705	9	1.24(0.65-0.89)	
PCB-45											
289.9224	23:06	23:06	7	1.136	92646	20548	94	235	219		a
291.9194	23:06	23:06	7	1.136	121959	26002	282	705	92	0.76(0.65-0.89)	a
PCB-51 (C45)											
289.9224	23:06	23:06	7	1.136	92646	20548	94	235	219		a
291.9194	23:06	23:06	7	1.136	121959	26002	282	705	92	0.76(0.65-0.89)	a
PCB-46											
289.9224	23:32						94	235			
291.9194	23:32						282	705			
PCB-52											
289.9224	24:44	24:44	5	1.216	71430	15560	94	235	166		a
291.9194	24:44	24:44	5	1.216	96638	21349	282	705	76	0.74(0.65-0.89)	a
PCB-43											
289.9224	25:07						94	235			
291.9194	25:07						282	705			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-73 (C43)											
289.9224	25:07						94	235			
291.9194	25:07						282	705			
PCB-49											
289.9224	25:13	25:13	8	1.240	35571	7588	94	235	81		a
291.9194	25:13	25:13	8	1.240	52260	11798	282	705	42	0.68(0.65-0.89)	a
PCB-69 (C49)											
289.9224	25:13	25:13	8	1.240	35571	7588	94	235	81		a
291.9194	25:13	25:13	8	1.240	52260	11798	282	705	42	0.68(0.65-0.89)	a
PCB-48											
289.9224	25:29	25:29	4	1.253	13553	2915	94	235	31		RQa
	Empc Correction				11658	3280	94	235	35		a
291.9194	25:29	25:29	4	1.253	15141	4261	282	705	15	0.90(0.65-0.89)	
PCB-44											
289.9224	25:44	25:41	5	1.266	404273	81377	94	235	866		
291.9194	25:44	25:41	5	1.266	491588	99283	282	705	352	0.82(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:44	25:41	5	1.266	404273	81377	94	235	866		
291.9194	25:44	25:41	5	1.266	491588	99283	282	705	352	0.82(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:44	25:41	5	1.266	404273	81377	94	235	866		
291.9194	25:44	25:41	5	1.266	491588	99283	282	705	352	0.82(0.65-0.89)	
PCB-59											
289.9224	26:01	26:06	3	1.280	6341	924	94	235	10		RQ
	Empc Correction				3340	853	94	235	9		
291.9194	26:01	26:06	3	1.280	4338	1108	282	705	4	1.46(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:01	26:06	3	1.280	6341	924	94	235	10		RQ
	Empc Correction				3340	853	94	235	9		
291.9194	26:01	26:06	3	1.280	4338	1108	282	705	4	1.46(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:01	26:06	3	1.280	6341	924	94	235	10		RQ
	Empc Correction				3340	853	94	235	9		
291.9194	26:01	26:06	3	1.280	4338	1108	282	705	4	1.46(0.65-0.89)	
PCB-42											
289.9224	26:13	26:13	3	1.290	11964	2520	94	235	27		RQa
	Empc Correction				9521	1967	94	235	21		a
291.9194	26:14	26:13	4	1.290	12366	2555	282	705	9	0.97(0.65-0.89)	
PCB-40											
289.9224	26:43	26:41	3	1.314	18611	4378	94	235	47		RQ
	Empc Correction				15851	3418	94	235	36		
291.9194	26:43	26:41	3	1.314	20587	4440	282	705	16	0.90(0.65-0.89)	
PCB-41 (C40)											
289.9224	26:43	26:41	3	1.314	18611	4378	94	235	47		RQ
	Empc Correction				15851	3418	94	235	36		
291.9194	26:43	26:41	3	1.314	20587	4440	282	705	16	0.90(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-71 (C40)											RQ
289.9224	26:43	26:41	3	1.314	18611	4378	94	235	47		
	Empc Correction				15851	3418	94	235	36		
291.9194	26:43	26:41	3	1.314	20587	4440	282	705	16	0.90(0.65-0.89)	
PCB-64											
289.9224	26:56	27:06	3	1.324	24597	5205	94	235	55		
291.9194	26:56	27:06	3	1.324	29044	7285	282	705	26	0.85(0.65-0.89)	
PCB-72											
289.9224	27:44						94	235			
291.9194	27:44						282	705			
PCB-68											M
289.9224	28:02	28:02	2	0.836	73567	15297	94	235	163		
291.9194	28:02	28:02	2	0.836	98047	20408	282	705	72	0.75(0.65-0.89)	M
PCB-57											
289.9224	28:26						94	235			
291.9194	28:26						282	705			
PCB-58											
289.9224	28:40						94	235			
291.9194	28:40						282	705			
PCB-67											
289.9224	28:50						94	235			
291.9194	28:50						282	705			
PCB-63											
289.9224	29:06						94	235			
291.9194	29:06						282	705			
PCB-61											
289.9224	29:28	29:26	2	0.879	78204	11191	94	235	119		
291.9194	29:26	29:26	0	0.878	102281	14431	282	705	51	0.76(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:28	29:26	2	0.879	78204	11191	94	235	119		
291.9194	29:26	29:26	0	0.878	102281	14431	282	705	51	0.76(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:28	29:26	2	0.879	78204	11191	94	235	119		
291.9194	29:26	29:26	0	0.878	102281	14431	282	705	51	0.76(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:28	29:26	2	0.879	78204	11191	94	235	119		
291.9194	29:26	29:26	0	0.878	102281	14431	282	705	51	0.76(0.65-0.89)	
PCB-66											RQ
289.9224	29:46	29:45	1	0.888	26070	6585	94	235	70		
291.9194	29:47	29:45	2	0.888	45388	9213	282	705	33	0.57(0.65-0.89)	
	Empc Correction				33857	8551	282	705	30		
PCB-55											
289.9224	29:55						94	235			
291.9194	29:55						282	705			
PCB-56											RQ
289.9224	30:26	30:25	1	0.907	13942	2660	94	235	28		
291.9194	30:27	30:25	2	0.908	25283	5393	282	705	19	0.55(0.65-0.89)	
	Empc Correction				18106	3454	282	705	12		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-60											RQ
289.9224	30:37	30:37	0	0.913	9258	1673	94	235	18		
291.9194	30:39	30:37	2	0.914	16847	3481	282	705	12	0.55(0.65-0.89)	
Empc Correction					12023	2172	282	705	8		
PCB-80											
289.9224	31:03						94	235			
291.9194	31:03						282	705			
PCB-79											
289.9224	32:35						94	235			
291.9194	32:35						282	705			
PCB-78											
289.9224	33:08						94	235			
291.9194	33:08						282	705			
PCB-81											
289.9224	33:34						94	235			
291.9194	33:34						282	705			
PCB-77											
289.9224	34:10						94	235			
291.9194	34:10						282	705			
PCB-104L											
337.9207	25:38	25:34	4	0.814	3091810	680940	123	307	5536		
339.9178	25:38	25:34	4	0.814	1905773	422258	98	245	4309	1.62(1.32-1.78)	
PCB-95L											
337.9207	28:34	28:35	2	1.114	791349	173386	123	307	1410		
339.9178	28:34	28:35	2	1.114	482932	102041	98	245	1041	1.64(1.32-1.78)	
PCB-101L											
337.9207	31:29	31:28	1		2685187	546341	123	307	4442		
339.9178	31:29	31:28	1		1715143	355830	98	245	3631	1.57(1.32-1.78)	
PCB-111L											
337.9207	34:09	34:09	1	1.085	3111884	638204	123	307	5189		
339.9178	34:09	34:09	1	1.085	1924345	388525	98	245	3965	1.62(1.32-1.78)	
PCB-123L											
337.9207	36:06	36:06	0	1.147	4471551	886399	3969	9922	223		
339.9178	36:06	36:06	0	1.147	2838051	575457	2433	6082	237	1.58(1.32-1.78)	
PCB-118L											
337.9207	36:26	36:26	0	1.157	4608227	895972	3969	9922	226		
339.9178	36:26	36:26	0	1.157	2895173	556508	2433	6082	229	1.59(1.32-1.78)	
PCB-114L											
337.9207	36:57	36:58	0	1.174	4528945	879445	3969	9922	222		
339.9178	36:57	36:58	0	1.174	2841920	542403	2433	6082	223	1.59(1.32-1.78)	
PCB-105L											
337.9207	37:36	37:36	0	1.194	4402117	875868	3969	9922	221		
339.9178	37:36	37:36	0	1.194	2759727	536588	2433	6082	221	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:04	39:04	0		4914895	951404	3969	9922	240		
339.9178	39:04	39:04	0		3078048	587976	2433	6082	242	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-126L											
337.9207	40:40	40:42	-1	1.292	4280318	816740	3969	9922	206		
339.9178	40:40	40:42	-1	1.292	2668242	501881	2433	6082	206	1.60(1.32-1.78)	
PCB-104											
325.8804	25:40						84	210			
327.8775	25:40						43	107			
PCB-96											
325.8804	26:03	25:59	5	1.016	1280	454	84	210	5		
327.8775	26:02	25:59	4	1.015	820	316	43	107	7	1.56(1.32-1.78)	
PCB-103											
325.8804	27:58						84	210			
327.8775	27:58						43	107			
PCB-94											
325.8804	28:12						84	210			
327.8775	28:12						43	107			
PCB-95											
325.8804	28:35	28:34	2	1.115	38619	7901	84	210	94		
327.8775	28:35	28:34	2	1.115	25590	5380	43	107	125	1.51(1.32-1.78)	
PCB-93											
325.8804	28:49						84	210			
327.8775	28:49						43	107			
PCB-100 (C93)											
325.8804	28:49						84	210			
327.8775	28:49						43	107			
PCB-98											
325.8804	28:58	28:56	2	1.130	5012	804	84	210	10		
327.8775	28:55	28:56	0	1.128	2974	710	43	107	17	1.69(1.32-1.78)	
PCB-102 (C98)											
325.8804	28:58	28:56	2	1.130	5012	804	84	210	10		
327.8775	28:55	28:56	0	1.128	2974	710	43	107	17	1.69(1.32-1.78)	
PCB-88											
325.8804	29:27	29:26	2	1.149	7608	1941	84	210	23		
327.8775	29:25	29:26	0	1.148	5080	1138	43	107	26	1.50(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:27	29:26	2	1.149	7608	1941	84	210	23		
327.8775	29:25	29:26	0	1.148	5080	1138	43	107	26	1.50(1.32-1.78)	
PCB-84											
325.8804	29:38	29:38	-1	1.156	13656	2606	84	210	31		a
327.8775	29:39	29:38	0	1.157	8034	1534	43	107	36	1.70(1.32-1.78)	a
PCB-89											
325.8804	30:12						84	210			
327.8775	30:12						43	107			
PCB-121											
325.8804	30:37						84	210			
327.8775	30:37						43	107			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-92											RQM
325.8804	30:56	30:56	1	0.857	10776	2650	84	210	32		
327.8775	30:56	30:56	2	0.857	9670	1850	43	107	43	1.11(1.32-1.78)	M
Empc Correction					6952	1709	43	107	40		
PCB-90											
325.8804	31:30	31:29	2	1.229	81130	17086	84	210	203		
327.8775	31:30	31:29	2	1.229	57184	11695	43	107	272	1.42(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:30	31:29	2	1.229	81130	17086	84	210	203		
327.8775	31:30	31:29	2	1.229	57184	11695	43	107	272	1.42(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:30	31:29	2	1.229	81130	17086	84	210	203		
327.8775	31:30	31:29	2	1.229	57184	11695	43	107	272	1.42(1.32-1.78)	
PCB-83											
325.8804	32:05	32:05	1	1.251	35298	5730	84	210	68		
327.8775	32:05	32:05	2	1.252	22197	4253	43	107	99	1.59(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:05	32:05	1	1.251	35298	5730	84	210	68		
327.8775	32:05	32:05	2	1.252	22197	4253	43	107	99	1.59(1.32-1.78)	
PCB-112											
325.8804	32:16						84	210			
327.8775	32:16						43	107			
PCB-86											
325.8804	32:40	32:32	7	1.274	80293	9641	84	210	115		
327.8775	32:41	32:32	8	1.275	51832	7122	43	107	166	1.55(1.32-1.78)	
PCB-87 (C86)											
325.8804	32:40	32:32	7	1.274	80293	9641	84	210	115		
327.8775	32:41	32:32	8	1.275	51832	7122	43	107	166	1.55(1.32-1.78)	
PCB-97 (C86)											
325.8804	32:40	32:32	7	1.274	80293	9641	84	210	115		
327.8775	32:41	32:32	8	1.275	51832	7122	43	107	166	1.55(1.32-1.78)	
PCB-109 (C86)											
325.8804	32:40	32:32	7	1.274	80293	9641	84	210	115		
327.8775	32:41	32:32	8	1.275	51832	7122	43	107	166	1.55(1.32-1.78)	
PCB-119 (C86)											
325.8804	32:40	32:32	7	1.274	80293	9641	84	210	115		
327.8775	32:41	32:32	8	1.275	51832	7122	43	107	166	1.55(1.32-1.78)	
PCB-125 (C86)											
325.8804	32:40	32:32	7	1.274	80293	9641	84	210	115		
327.8775	32:41	32:32	8	1.275	51832	7122	43	107	166	1.55(1.32-1.78)	
PCB-85											M
325.8804	33:17	33:17	1	1.298	15608	2996	84	210	36		
327.8775	33:17	33:17	1	1.298	9085	1720	43	107	40	1.72(1.32-1.78)	M
PCB-116 (C85)											M
325.8804	33:17	33:17	1	1.298	15608	2996	84	210	36		
327.8775	33:17	33:17	1	1.298	9085	1720	43	107	40	1.72(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-117 (C85)											M
325.8804	33:17	33:17	1	1.298	15608	2996	84	210	36		
327.8775	33:17	33:17	1	1.298	9085	1720	43	107	40	1.72(1.32-1.78)	M
PCB-110											a
325.8804	33:28	33:28	-2	1.305	140662	26853	84	210	320		a
327.8775	33:28	33:28	-2	1.305	81900	15922	43	107	370	1.72(1.32-1.78)	
PCB-115 (C110)											a
325.8804	33:28	33:28	-2	1.305	140662	26853	84	210	320		a
327.8775	33:28	33:28	-2	1.305	81900	15922	43	107	370	1.72(1.32-1.78)	
PCB-82											M
325.8804	33:47	33:47	1	1.318	13678	3213	84	210	38		M
327.8775	33:47	33:47	1	1.318	9129	1970	43	107	46	1.50(1.32-1.78)	M
PCB-111											
325.8804	34:15						84	210			
327.8775	34:15						43	107			
PCB-120											
325.8804	34:43						84	210			
327.8775	34:43						43	107			
PCB-108											
325.8804	35:47	35:47	1	1.396	9317	1650	207	517	8		
327.8775	35:45	35:47	0	1.395	6532	1126	190	475	6	1.43(1.32-1.78)	
PCB-124 (C108)											
325.8804	35:47	35:47	1	1.396	9317	1650	207	517	8		
327.8775	35:45	35:47	0	1.395	6532	1126	190	475	6	1.43(1.32-1.78)	
PCB-107											RQa
325.8804	36:00	36:00	0	1.405	17666	2961	207	517	14		a
	Empc Correction				14408	2554	207	517	12		
327.8775	36:00	36:00	0	1.404	9296	1648	190	475	9	1.90(1.32-1.78)	
PCB-123											
325.8804	36:07						207	517			
327.8775	36:07						190	475			
PCB-106											
325.8804	36:15						207	517			
327.8775	36:15						190	475			
PCB-118											
325.8804	36:27	36:27	0	1.001	187009	36420	207	517	176		
327.8775	36:26	36:27	0	1.000	120132	22159	190	475	117	1.56(1.32-1.78)	
PCB-122											
325.8804	36:48						207	517			
327.8775	36:48						190	475			
PCB-114											
325.8804	36:57	36:59	-1	1.000	5430	1243	207	517	6		
327.8775	36:58	36:59	0	1.000	3768	862	190	475	5	1.44(1.32-1.78)	
PCB-105											
325.8804	37:37	37:36	-1	1.000	74255	14982	207	517	72		
327.8775	37:37	37:36	0	1.001	45487	8203	190	475	43	1.63(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-127											
325.8804	39:06						207	517			
327.8775	39:06						190	475			
PCB-126											
325.8804	40:41						207	517			
327.8775	40:41						190	475			
PCB-155L											
371.8817	31:15	31:13	2	0.790	2585102	529466	121	302	4376		
373.8788	31:15	31:13	2	0.790	1987329	411276	85	212	4839	1.30(1.05-1.43)	
PCB-153L											
371.8817	38:18	38:17	0	0.900	1027810	197714	102	255	1938		
373.8788	38:18	38:17	0	0.900	808415	162582	164	410	991	1.27(1.05-1.43)	
PCB-138L											
371.8817	39:32	39:32	0		3109803	601222	102	255	5894		
373.8788	39:32	39:32	0		2438349	468100	164	410	2854	1.28(1.05-1.43)	
PCB-167L											
371.8817	42:32	42:32	0	1.076	3604881	683177	102	255	6698		
373.8788	42:32	42:32	0	1.076	2804293	540971	164	410	3299	1.29(1.05-1.43)	
PCB-156L											
371.8817	43:41	43:41	-1	1.105	6918815	893746	102	255	8762		
373.8788	43:41	43:41	-1	1.105	5422517	706411	164	410	4307	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:41	43:41	-1	1.105	6918815	893746	102	255	8762		
373.8788	43:41	43:41	-1	1.105	5422517	706411	164	410	4307	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:55	46:54	0	1.187	3539682	668532	102	255	6554		
373.8788	46:55	46:54	0	1.187	2743310	518899	164	410	3164	1.29(1.05-1.43)	
PCB-155											
359.8415	31:16						9	22			
361.8385	31:16						4	10			
PCB-152											
359.8415	31:29						9	22			
361.8385	31:29						4	10			
PCB-150											
359.8415	31:39						9	22			
361.8385	31:39						4	10			
PCB-136											
359.8415	32:00	32:00	1	1.024	4929	1402	9	22	156		RQ
361.8385	32:00	32:00	1	1.024	5043	1709	4	10	427	0.98(1.05-1.43)	
Empc Correction					3974	1130	4	10	283		
PCB-145											
359.8415	32:18						9	22			
361.8385	32:18						4	10			
PCB-148											
359.8415	33:49						9	22			
361.8385	33:49						4	10			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-135											RQ
359.8415	34:27	34:23	5	1.102	14017	2262	9	22	251		
	Empc Correction				11711	1576	9	22	175		
361.8385	34:26	34:23	4	1.102	9445	1271	4	10	318	1.48(1.05-1.43)	
PCB-151 (C135)											RQ
359.8415	34:27	34:23	5	1.102	14017	2262	9	22	251		
	Empc Correction				11711	1576	9	22	175		
361.8385	34:26	34:23	4	1.102	9445	1271	4	10	318	1.48(1.05-1.43)	
PCB-154											
359.8415	34:40						9	22			
361.8385	34:40						4	10			
PCB-144											RQMa
359.8415	34:56	34:58	0	1.118	3976	992	9	22	110		a
	Empc Correction				2153	504	9	22	56		
361.8385	34:58	34:58	1	1.119	1737	407	4	10	102	2.29(1.05-1.43)	M
PCB-147											
359.8415	35:19	35:19	0	1.130	69425	14704	87	217	169		
361.8385	35:19	35:19	0	1.130	50452	9939	51	127	195	1.38(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:19	35:19	0	1.130	69425	14704	87	217	169		
361.8385	35:19	35:19	0	1.130	50452	9939	51	127	195	1.38(1.05-1.43)	
PCB-134											a
359.8415	35:32	35:32	-4	1.137	8281	1433	87	217	16		a
361.8385	35:29	35:32	-7	1.136	6893	1489	51	127	29	1.20(1.05-1.43)	
PCB-143 (C134)											a
359.8415	35:32	35:32	-4	1.137	8281	1433	87	217	16		a
361.8385	35:29	35:32	-7	1.136	6893	1489	51	127	29	1.20(1.05-1.43)	
PCB-139											
359.8415	35:54						87	217			
361.8385	35:54						51	127			
PCB-140 (C139)											
359.8415	35:54						87	217			
361.8385	35:54						51	127			
PCB-131											
359.8415	36:08						87	217			
361.8385	36:08						51	127			
PCB-142											
359.8415	36:17						87	217			
361.8385	36:17						51	127			
PCB-132											
359.8415	36:34	36:32	0	1.170	45704	8609	87	217	99		
361.8385	36:34	36:32	0	1.170	34568	7840	51	127	154	1.32(1.05-1.43)	
PCB-133											
359.8415	37:04						87	217			
361.8385	37:04						51	127			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-165											
359.8415	37:28						87	217			
361.8385	37:28						51	127			
PCB-146											
359.8415	37:42	37:44	-1	0.886	15333	3189	87	217	37		RQM
	Empc Correction				12615	2362	87	217	27		
361.8385	37:44	37:44	2	0.887	10174	1905	51	127	37	1.51(1.05-1.43)	M
PCB-161											
359.8415	37:51						87	217			
361.8385	37:51						51	127			
PCB-153											
359.8415	38:19	38:19	-1	0.901	91768	17960	87	217	206		
361.8385	38:19	38:19	-1	0.901	73263	13925	51	127	273	1.25(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:19	38:19	-1	0.901	91768	17960	87	217	206		
361.8385	38:19	38:19	-1	0.901	73263	13925	51	127	273	1.25(1.05-1.43)	
PCB-141											
359.8415	38:31	38:31	0	0.905	20362	4351	87	217	50		
361.8385	38:31	38:31	0	0.905	15700	2999	51	127	59	1.30(1.05-1.43)	
PCB-130											
359.8415	38:56	38:55	1	0.915	6269	1310	87	217	15		RQ
361.8385	38:57	38:55	2	0.916	6867	1453	51	127	28	0.91(1.05-1.43)	
	Empc Correction				5055	1056	51	127	21		
PCB-137											
359.8415	39:10	39:10	1	0.921	8199	1984	87	217	23		RQM
361.8385	39:10	39:10	1	0.921	8460	1408	51	127	28	0.97(1.05-1.43)	M
	Empc Correction				6612	1599	51	127	31		
PCB-164											
359.8415	39:15	39:15	-1	0.923	6600	1446	87	217	17		
361.8385	39:16	39:15	0	0.923	4863	1437	51	127	28	1.36(1.05-1.43)	
PCB-129											
359.8415	39:34	39:34	-1	0.930	132496	22653	87	217	260		
361.8385	39:33	39:34	-1	0.930	100531	21119	51	127	414	1.32(1.05-1.43)	
PCB-138 (C129)											
359.8415	39:34	39:34	-1	0.930	132496	22653	87	217	260		
361.8385	39:33	39:34	-1	0.930	100531	21119	51	127	414	1.32(1.05-1.43)	
PCB-160 (C129)											
359.8415	39:34	39:34	-1	0.930	132496	22653	87	217	260		
361.8385	39:33	39:34	-1	0.930	100531	21119	51	127	414	1.32(1.05-1.43)	
PCB-163 (C129)											
359.8415	39:34	39:34	-1	0.930	132496	22653	87	217	260		
361.8385	39:33	39:34	-1	0.930	100531	21119	51	127	414	1.32(1.05-1.43)	
PCB-158											
359.8415	39:57	39:57	0	0.939	14476	3224	87	217	37		
361.8385	39:56	39:57	-1	0.939	11759	2533	51	127	50	1.23(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-128											RQ
359.8415	40:51	40:48	2	0.960	13541	3011	87	217	35		
361.8385	40:49	40:48	1	0.960	17837	3412	51	127	67	0.76(1.05-1.43)	
Empc Correction					10920	2428	51	127	48		
PCB-166 (C128)											RQ
359.8415	40:51	40:48	2	0.960	13541	3011	87	217	35		
361.8385	40:49	40:48	1	0.960	17837	3412	51	127	67	0.76(1.05-1.43)	
Empc Correction					10920	2428	51	127	48		
PCB-159											
359.8415	41:48						87	217			
361.8385	41:48						51	127			
PCB-162											
359.8415	42:05						87	217			
361.8385	42:05						51	127			
PCB-167											
359.8415	42:34	42:33	0	1.001	4368	762	87	217	9		
361.8385	42:35	42:33	2	1.001	3092	804	51	127	16	1.41(1.05-1.43)	
PCB-156											
359.8415	43:42	43:42	0	1.001	10079	1720	87	217	20		
361.8385	43:42	43:42	-1	1.000	7157	1295	51	127	25	1.41(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:42	43:42	0	1.001	10079	1720	87	217	20		
361.8385	43:42	43:42	-1	1.000	7157	1295	51	127	25	1.41(1.05-1.43)	
PCB-169											
359.8415	46:56						87	217			
361.8385	46:56						51	127			
PCB-188L											
405.8428	36:57	36:56	0	0.820	2716851	527374	145	362	3637		
407.8398	36:57	36:56	0	0.820	2612958	509291	124	310	4107	1.04(0.89-1.21)	
PCB-178L											
405.8428	40:00	39:59	0	0.887	1981366	381038	145	362	2628		
407.8398	40:00	39:59	0	0.887	1788022	341083	124	310	2751	1.11(0.89-1.21)	
PCB-180L											
405.8428	45:05	45:04	0		2257864	423929	145	362	2924		
407.8398	45:05	45:04	0		2095253	387168	124	310	3122	1.08(0.89-1.21)	
PCB-170L											
405.8428	46:19	46:20	-1	1.028	1803348	328989	145	362	2269		
407.8398	46:20	46:20	0	1.028	1698702	313813	124	310	2531	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:26	49:26	0	1.097	4300625	793715	593	1482	1338		
407.8398	49:26	49:26	0	1.097	4042312	733705	520	1300	1411	1.06(0.89-1.21)	
PCB-188											
393.8025	36:59						1	2			
395.7995	36:59						1	2			

	Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
	PCB-179											
	393.8025	37:20	37:19	1	1.010	2746	483	1	2	483		
	395.7995	37:18	37:19	0	1.010	2665	783	1	2	783	1.03(0.89-1.21)	
	PCB-184											
	393.8025	37:49						1	2			
	395.7995	37:49						1	2			
	PCB-176											
	393.8025	38:09	38:09	-2	1.032	350	109	1	2	109		RQa
	395.7995	38:11	38:09	0	1.033	684	170	1	2	170	0.51(0.89-1.21)	a
		Empc Correction				333	103	1	2	103		
	PCB-186											
	393.8025	38:39						1	2			
	395.7995	38:39						1	2			
	PCB-178											
	393.8025	40:02	40:01	0	1.083	248	130	1	2	130		RQ
		Empc Correction				135	67	1	2	67		
	395.7995	40:02	40:01	0	1.083	129	64	1	2	64	1.92(0.89-1.21)	
	PCB-175											
	393.8025	40:39						1	2			
	395.7995	40:39						1	2			
	PCB-187											
	393.8025	40:56	40:57	1	1.108	3575	913	1	2	913		
	395.7995	40:57	40:57	2	1.108	3797	698	1	2	698	0.94(0.89-1.21)	
	PCB-182											
	393.8025	41:08						1	2			
	395.7995	41:08						1	2			
	PCB-183											
	393.8025	41:33	41:35	1	1.125	3622	769	1	2	769		M
	395.7995	41:35	41:35	2	1.125	3387	585	1	2	585	1.07(0.89-1.21)	M
	PCB-185 (C183)											
	393.8025	41:33	41:35	1	1.125	3622	769	1	2	769		M
	395.7995	41:35	41:35	2	1.125	3387	585	1	2	585	1.07(0.89-1.21)	M
	PCB-174											
	393.8025	41:47	41:47	1	1.131	3450	761	1	2	761		RQM
	395.7995	41:47	41:47	0	1.131	4727	1012	1	2	1012	0.73(0.89-1.21)	M
		Empc Correction				3285	724	1	2	724		
	PCB-177											
	393.8025	42:13	42:12	1	1.143	2460	495	1	2	495		RQ
		Empc Correction				1206	298	1	2	298		
	395.7995	42:12	42:12	-1	1.142	1149	284	1	2	284	2.14(0.89-1.21)	
	PCB-181											
	393.8025	42:36						1	2			
	395.7995	42:36						1	2			
	PCB-171											
	393.8025	42:50	42:50	1	1.159	2030	458	1	2	458		RQM
		Empc Correction				1058	236	1	2	236		M
	395.7995	42:54	42:50	5	1.161	1008	225	1	2	225	2.01(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-173 (C171)											RQM
393.8025	42:50	42:50	1	1.159	2030	458	1	2	458		M
	Empc Correction				1058	236	1	2	236		
395.7995	42:54	42:50	5	1.161	1008	225	1	2	225	2.01(0.89-1.21)	
PCB-172											RQU
393.8025	44:27						1	2			
395.7995	44:27						1	2			
PCB-192											
393.8025	44:44						1	2			
395.7995	44:44						1	2			
PCB-180											M
393.8025	45:07	45:07	2	0.913	4244	1093	1	2	1093		M
395.7995	45:08	45:07	3	0.913	4069	683	1	2	683	1.04(0.89-1.21)	
PCB-193 (C180)											M
393.8025	45:07	45:07	2	0.913	4244	1093	1	2	1093		M
395.7995	45:08	45:07	3	0.913	4069	683	1	2	683	1.04(0.89-1.21)	
PCB-191											RQMU
393.8025	45:27						1	2			
395.7995	45:27						1	2			
PCB-170											M
393.8025	46:23	46:23	1	0.938	1659	507	1	2	507		M
395.7995	46:21	46:23	-1	0.938	1737	442	1	2	442	0.96(0.89-1.21)	
PCB-190											RQ
393.8025	46:53	46:52	0	0.948	481	216	1	2	216		
	Empc Correction				295	148	1	2	148		
395.7995	46:53	46:52	1	0.949	281	141	1	2	141	1.71(0.89-1.21)	
PCB-189											
393.8025	49:27						113	282			
395.7995	49:27						92	230			
PCB-202L											
439.8038	42:18	42:18	-1	0.821	1910528	364888	25	62	14596		
441.8008	42:19	42:18	0	0.821	2123407	381502	24	60	15896	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:33	51:33	0		2850985	530632	163	407	3255		
441.8008	51:33	51:33	0		3120408	574803	136	340	4226	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:01	52:00	0	1.009	3121408	575078	163	407	3528		
441.8008	52:01	52:00	0	1.009	3426070	631348	136	340	4642	0.91(0.76-1.02)	
PCB-202											
427.7635	42:20						12	30			
429.7606	42:20						6	15			
PCB-201											
427.7635	43:14						12	30			
429.7606	43:14						6	15			
PCB-204											
427.7635	43:54						12	30			
429.7606	43:54						6	15			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-197											
427.7635	44:08						12	30			
429.7606	44:08						6	15			
PCB-200											
427.7635	44:12	44:15	-3	1.045	248	94	12	30	8		RQ
429.7606	44:18	44:15	2	1.047	889	341	6	15	57	0.28(0.76-1.02)	
	Empc Correction				278	105	6	15	18		
PCB-198											
427.7635	47:02						12	30			
429.7606	47:02						6	15			
PCB-199 (C198)											
427.7635	47:02						12	30			
429.7606	47:02						6	15			
PCB-196											
427.7635	47:44	47:42	1	0.918	803	316	12	30	26		RQ
429.7606	47:42	47:42	-1	0.917	3175	581	6	15	97	0.25(0.76-1.02)	
	Empc Correction				902	355	6	15	59		
PCB-203											
427.7635	47:54						12	30			
429.7606	47:54						6	15			
PCB-195											
427.7635	49:13						36	90			
429.7606	49:13						13	32			
PCB-194											
427.7635	51:32	51:35	-3	0.991	733	276	36	90	8		RQ
	Empc Correction				292	155	36	90	4		
429.7606	51:33	51:35	-2	0.991	329	175	13	32	13	2.23(0.76-1.02)	
PCB-205											
427.7635	52:02						36	90			
429.7606	52:02						13	32			
PCB-208L											
473.7648	48:58	48:58	0	0.950	2590855	479822	415	1037	1156		
475.7619	48:58	48:58	0	0.950	3266213	599770	519	1297	1156	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:46	53:45	1	1.043	1803381	325628	415	1037	785		
475.7619	53:45	53:45	0	1.043	2267476	400187	519	1297	771	0.80(0.65-0.89)	
PCB-208											
461.7246	49:00						404	1010			
463.7216	49:00						371	927			
PCB-207											
461.7246	49:55						404	1010			
463.7216	49:55						371	927			
PCB-206											
461.7246	53:48						404	1010			
463.7216	53:48						371	927			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-209L											
507.7258	55:23	55:22	1	1.075	1787969	306982	116	290	2646		
509.7229	55:22	55:22	0	1.074	2493638	429241	69	172	6221	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:25	55:23	1	1.001	750	201	7	17	29		RQ
497.6826	55:25	55:23	1	1.001	2819	869	4	10	217	0.27(0.59-0.79)	
Empc Correction					1086	291	4	10	73		

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

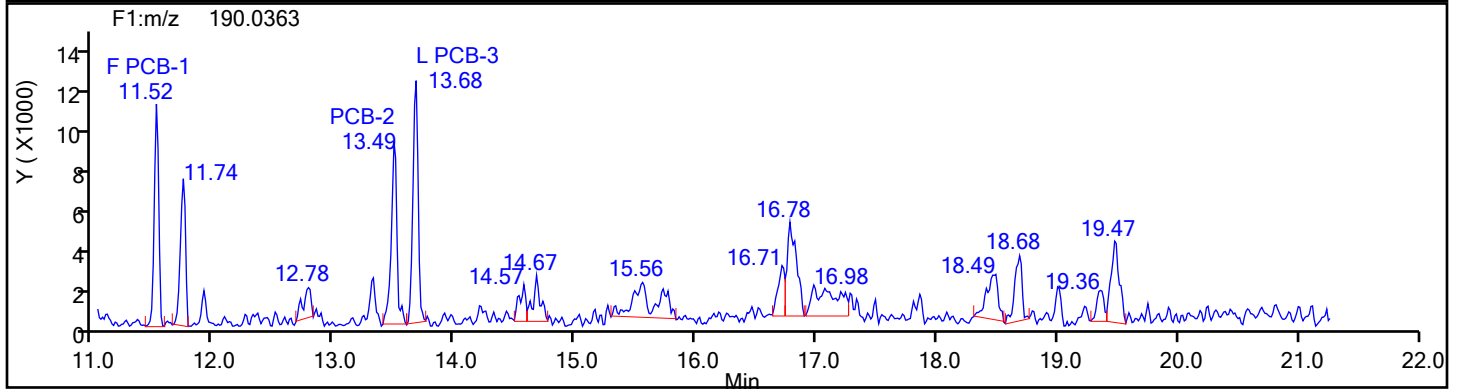
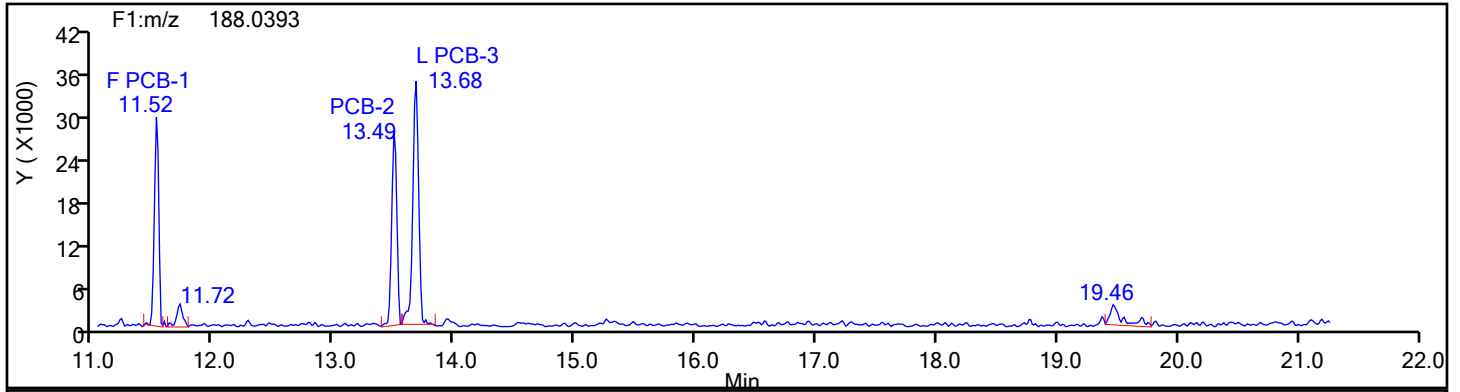
M - Manually Integrated

U - Marked Undetected

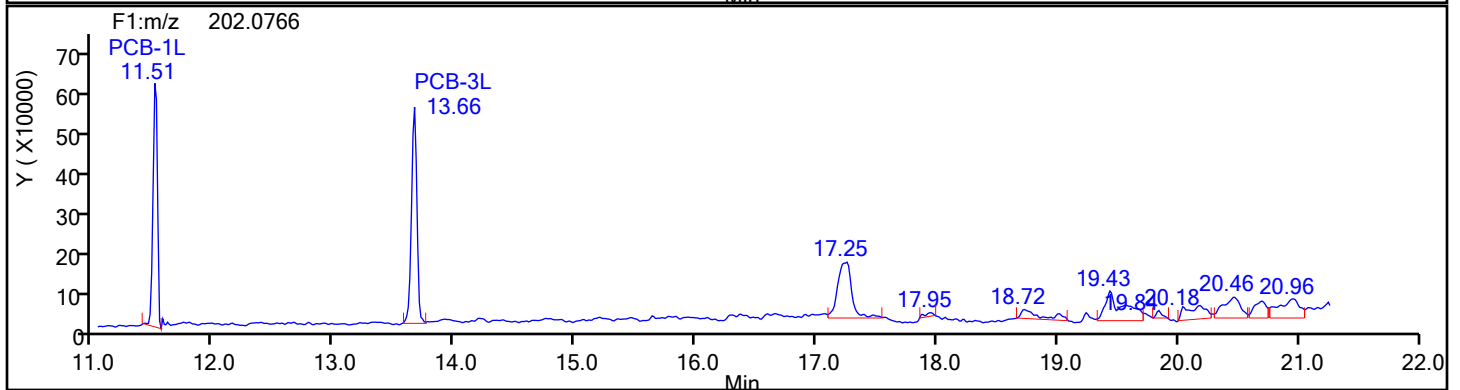
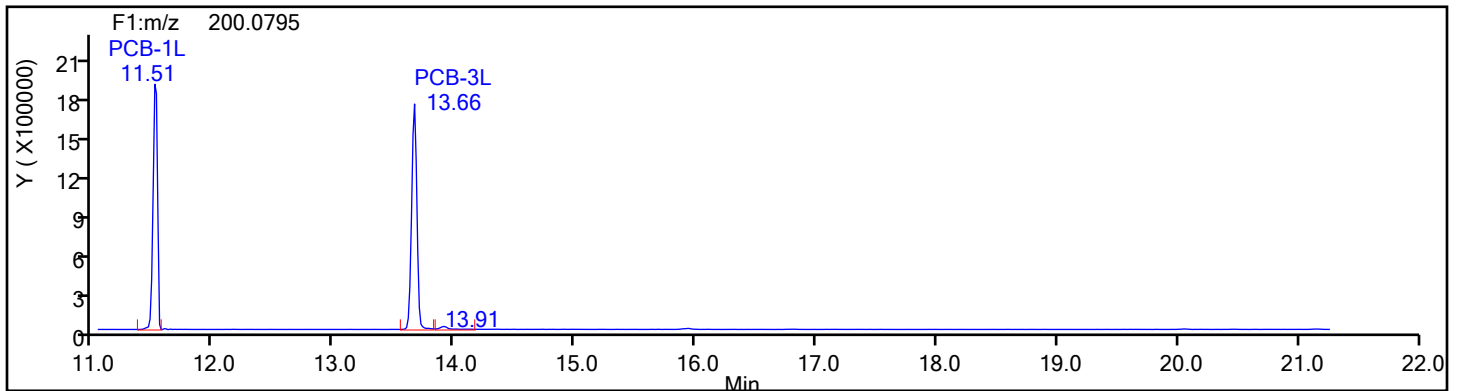
a - User Assigned ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d
Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d

Injection Date: 12-Jun-2024 05:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 6 COMBINED

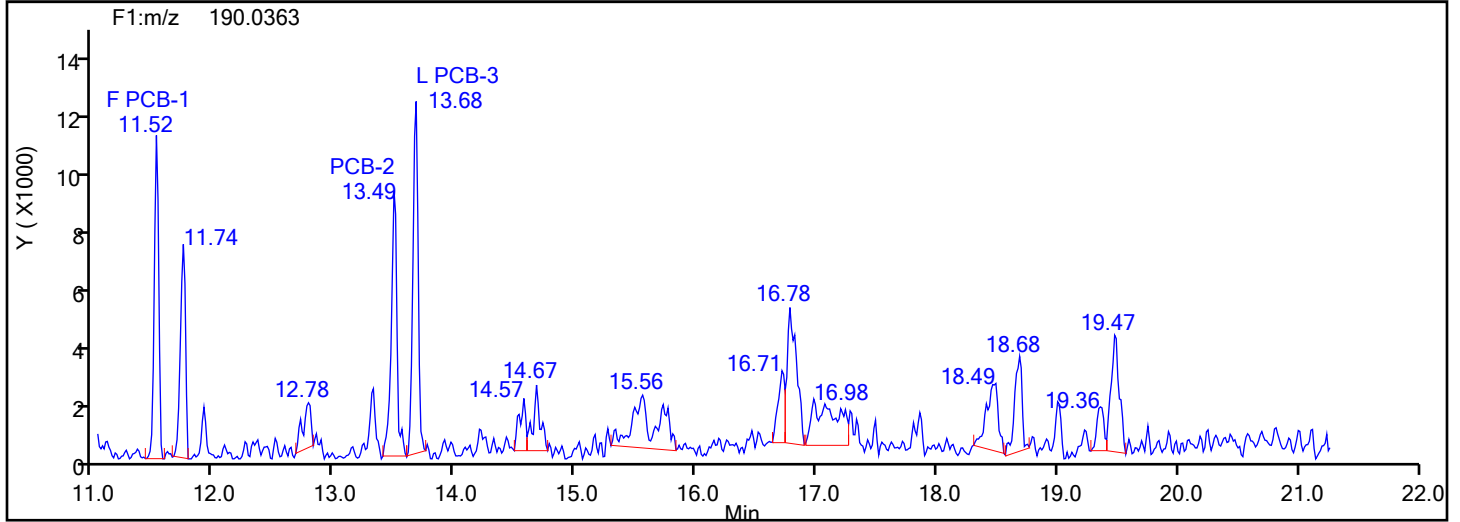
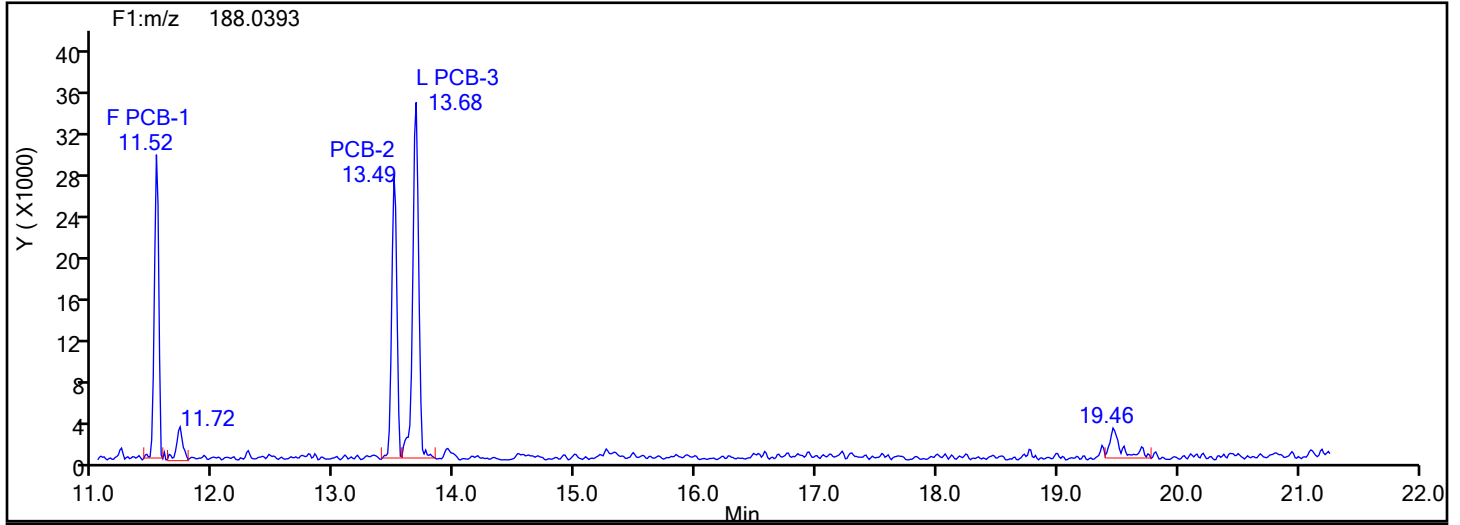
Worklist#: 87536

Sample Line#: 11

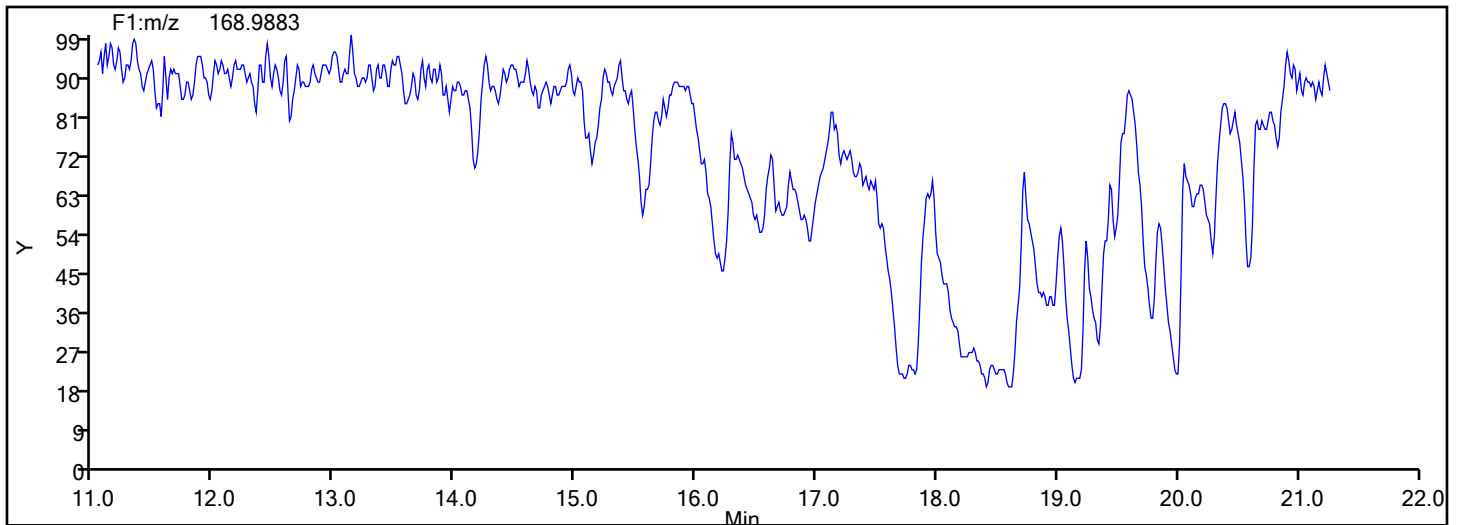
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1

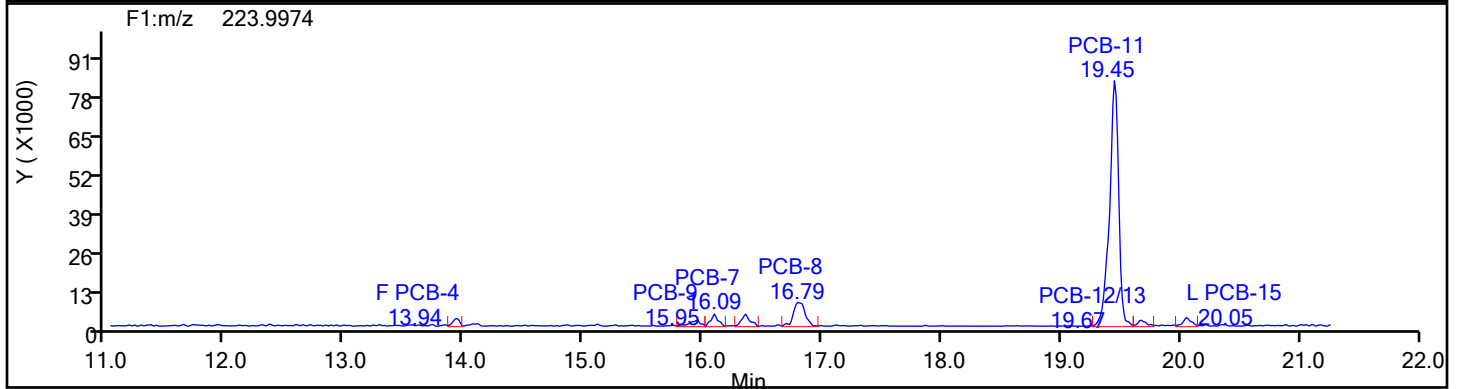
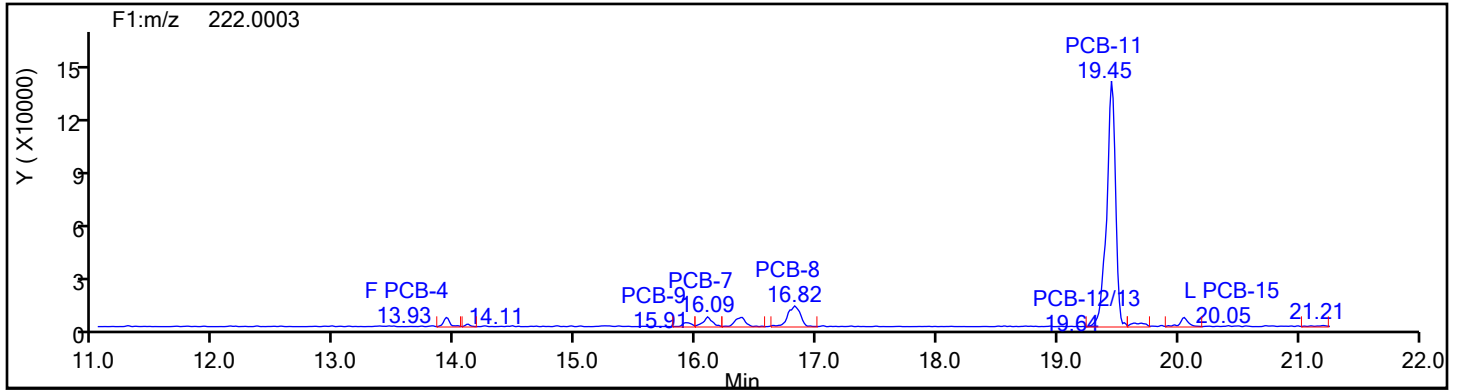


MoPCB F1 Lock Mass

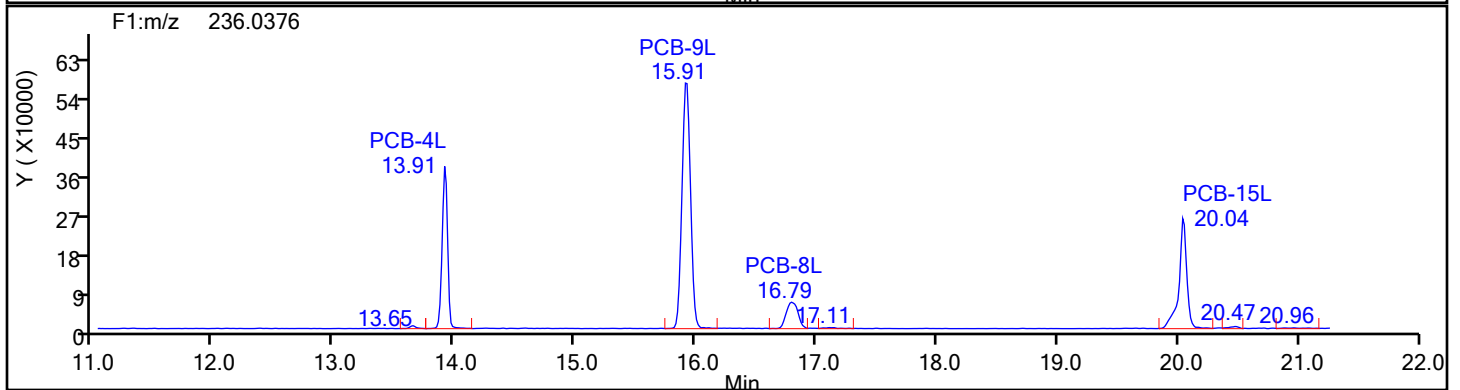
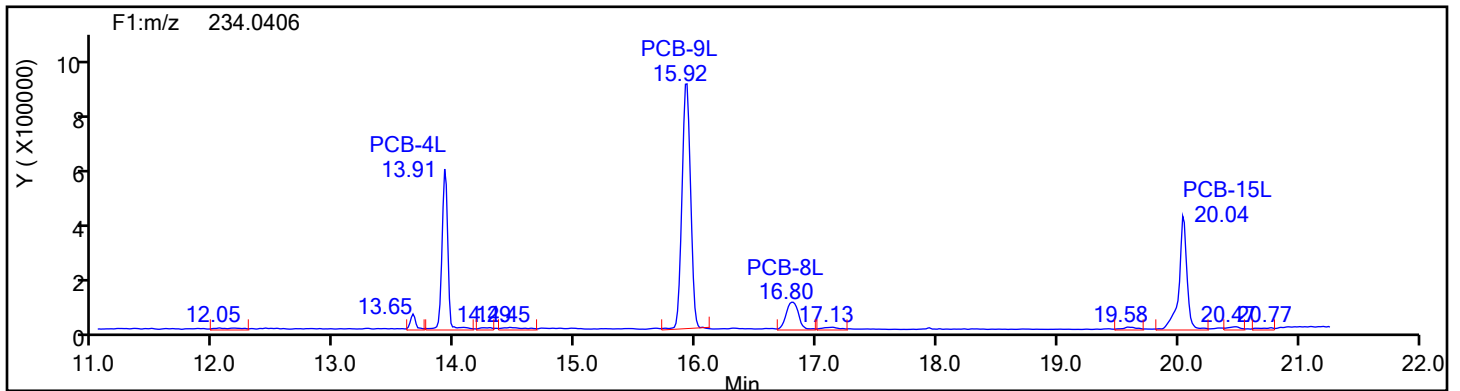


Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d

Injection Date: 12-Jun-2024 05:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 6 COMBINED

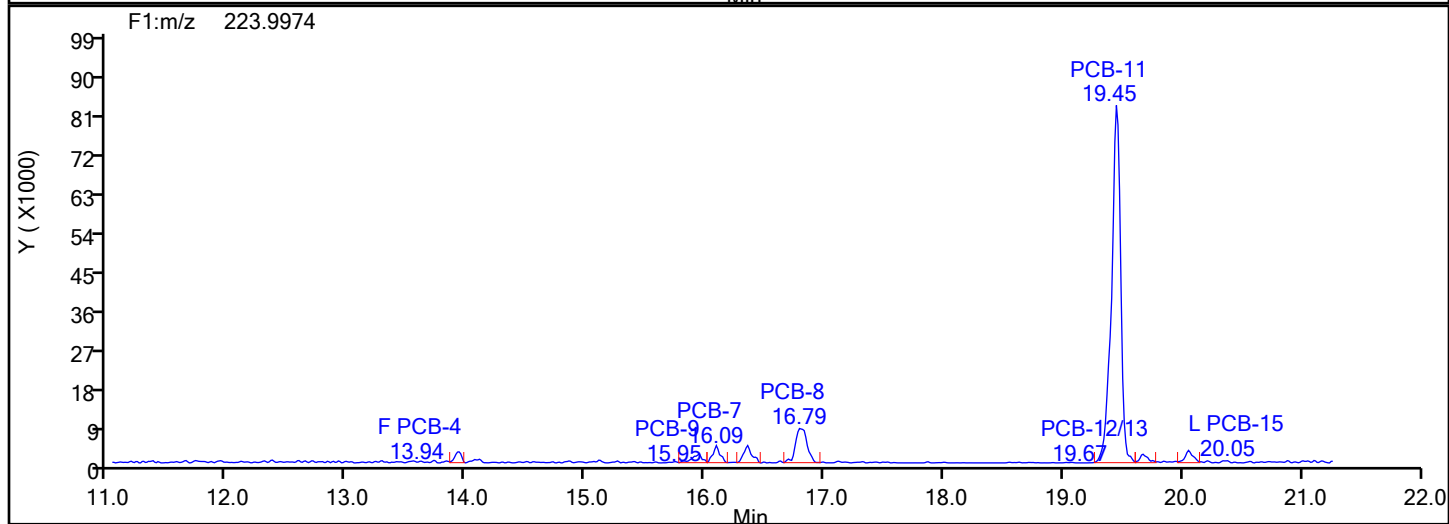
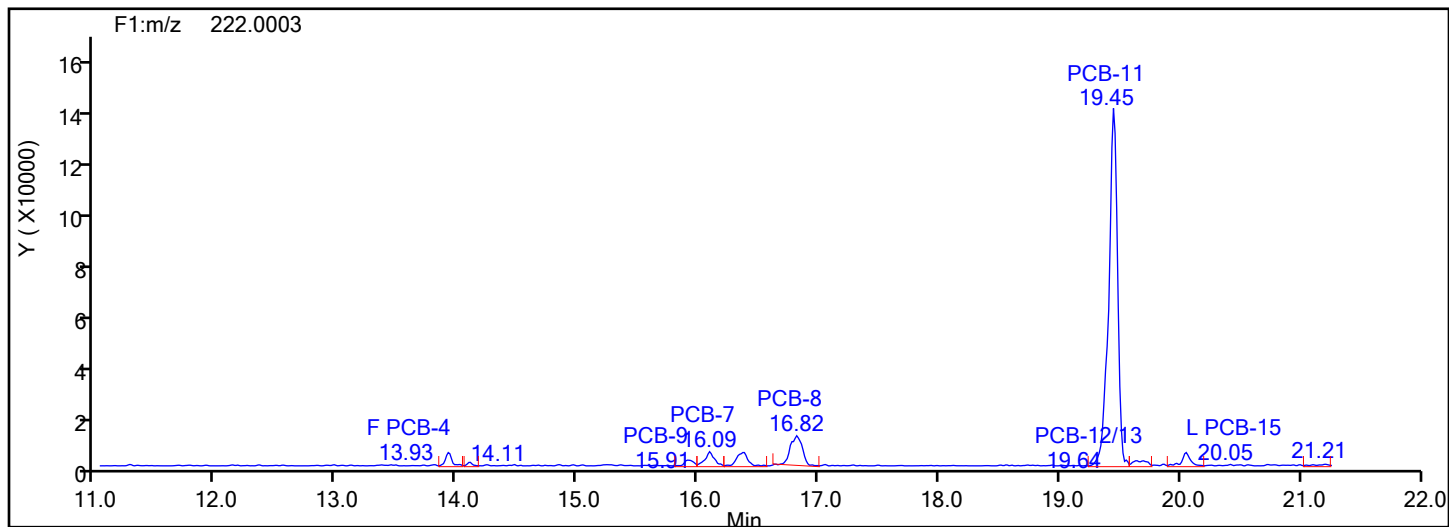
Worklist#: 87536

Sample Line#: 11

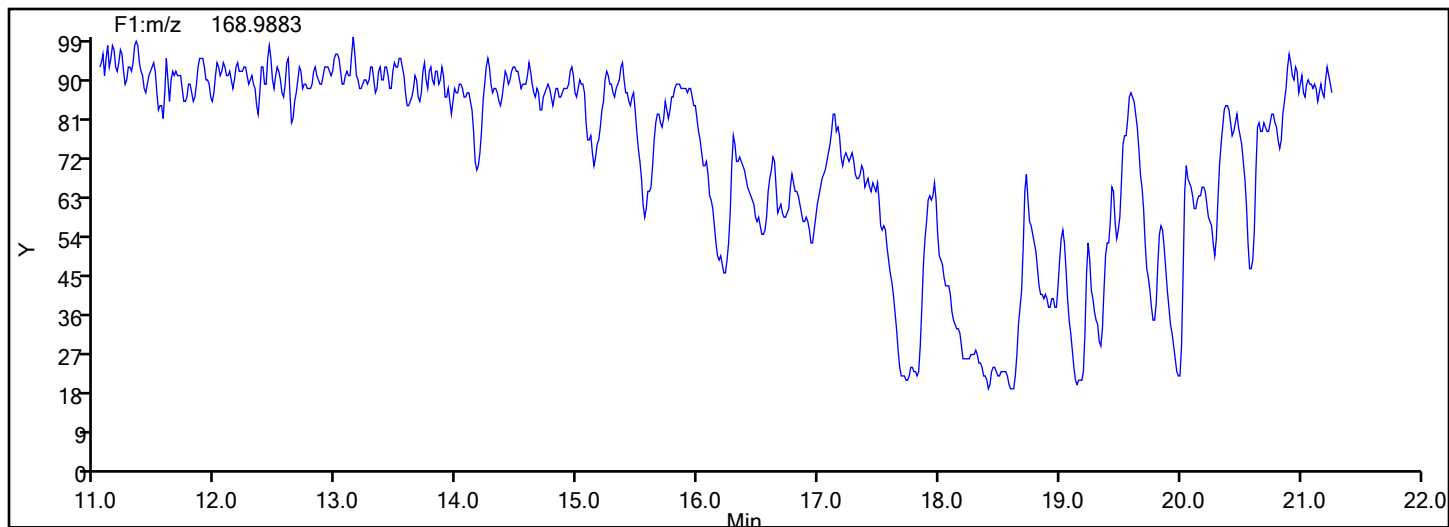
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

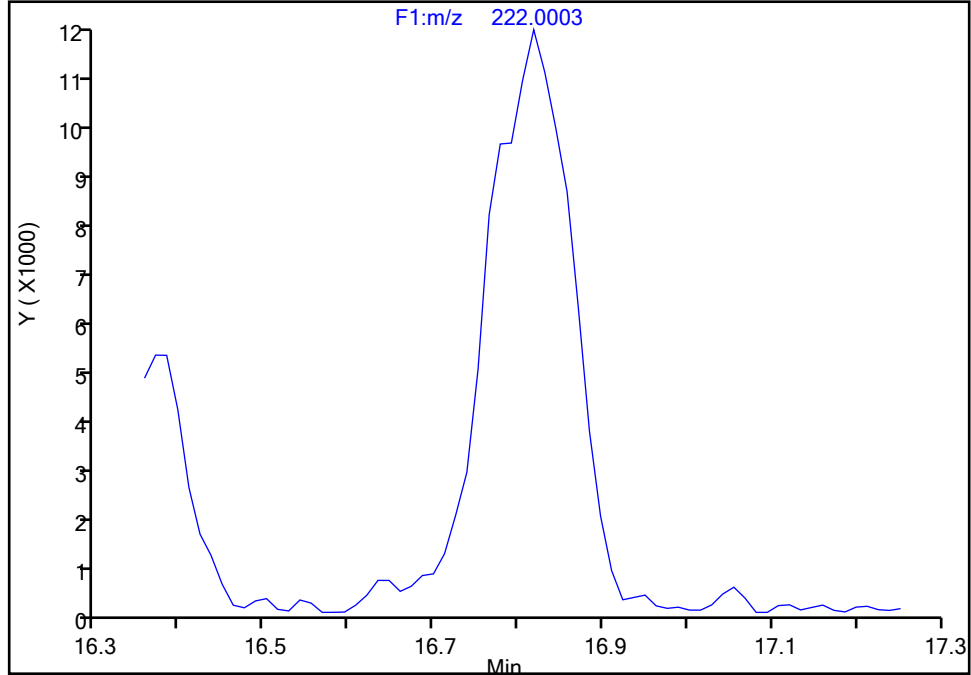
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Injection Date: 12-Jun-2024 05:36:00 Instrument ID: D2D
Lims ID: 140-36689-A-6-C Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

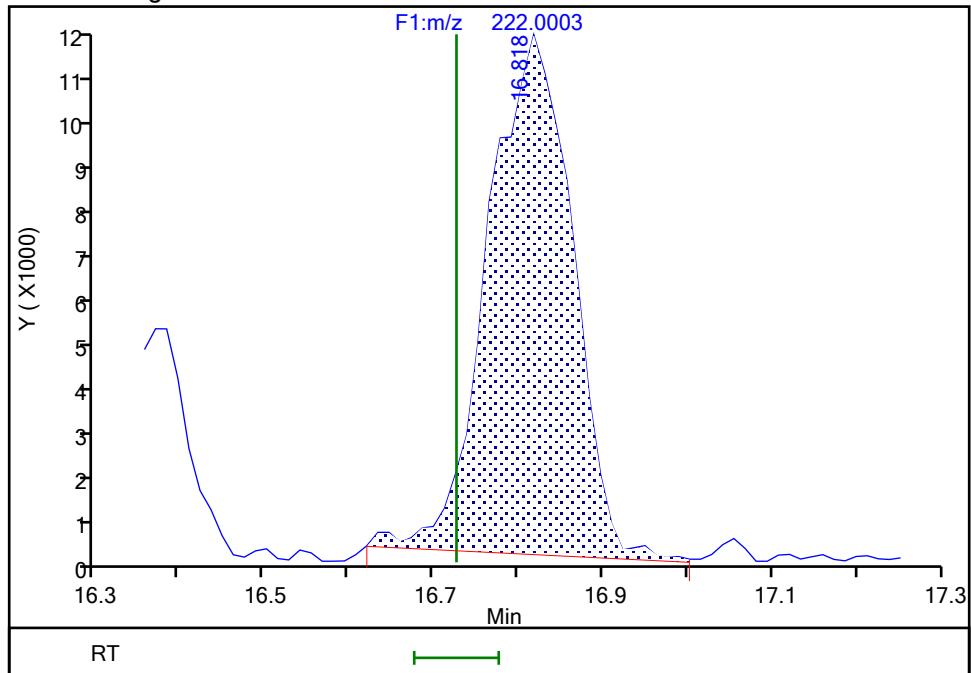
Not Detected
Expected RT: 16.73

Processing Integration Results



RT: 16.82
Area: 80437
Amount: 2.735906
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 15:10:15 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

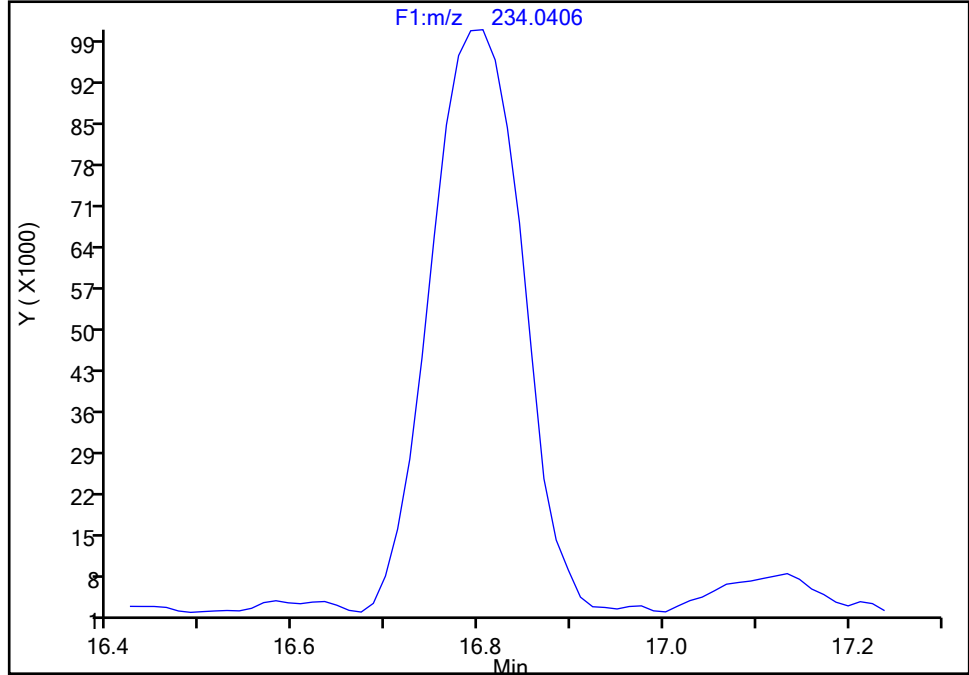
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Injection Date: 12-Jun-2024 05:36:00 Instrument ID: D2D
Lims ID: 140-36689-A-6-C Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

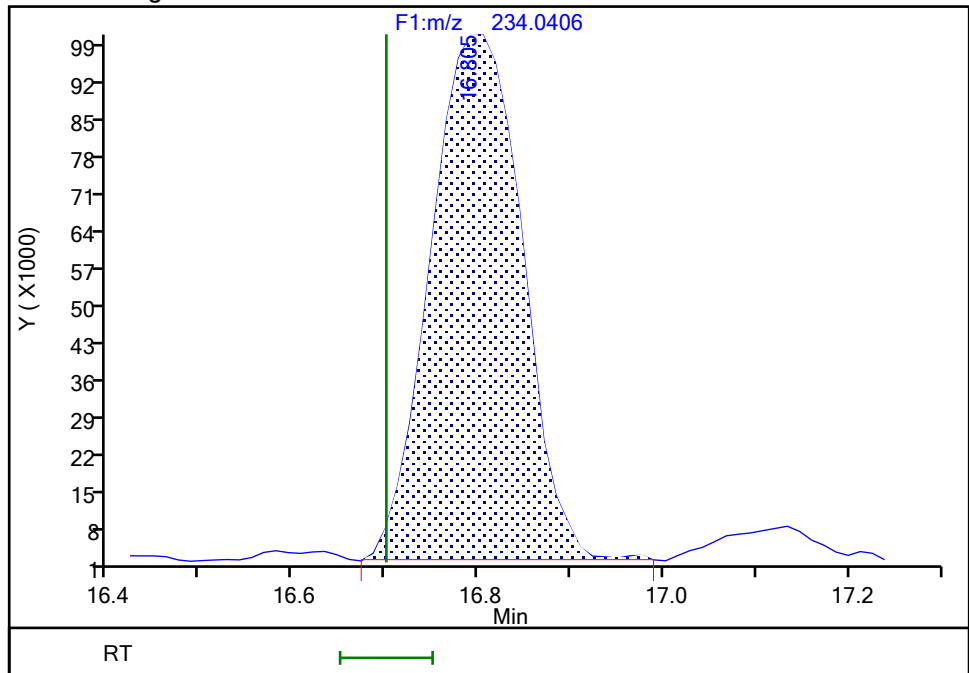
Not Detected
Expected RT: 16.70

Processing Integration Results



RT: 16.80
Area: 683226
Amount: 29.603002
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 15:09:37 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

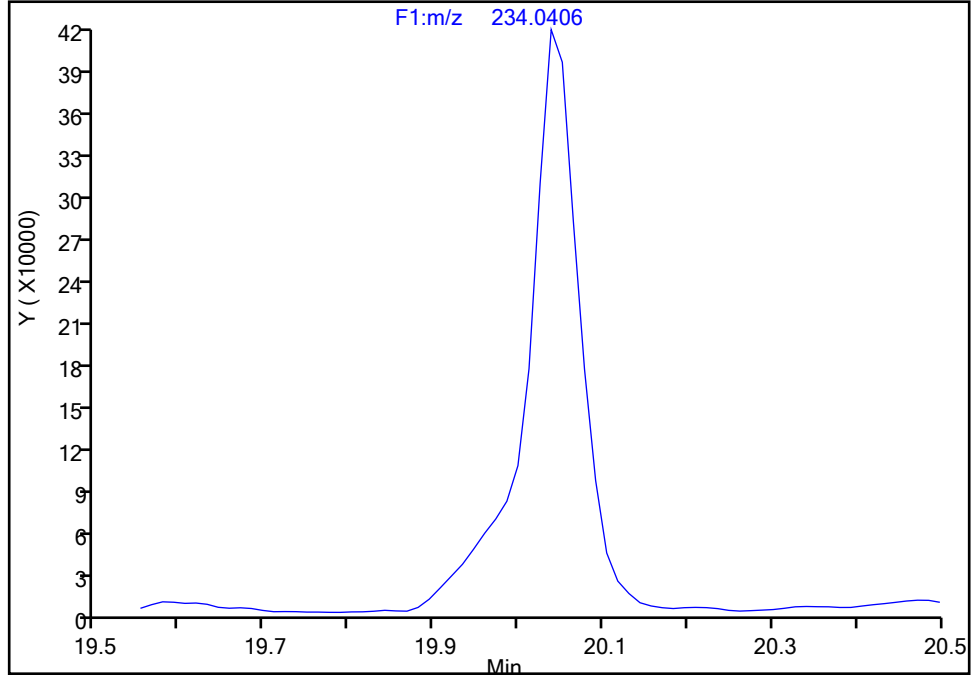
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Injection Date: 12-Jun-2024 05:36:00 Instrument ID: D2D
Lims ID: 140-36689-A-6-C Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-15L, CAS: 208263-67-6

Signal: 1

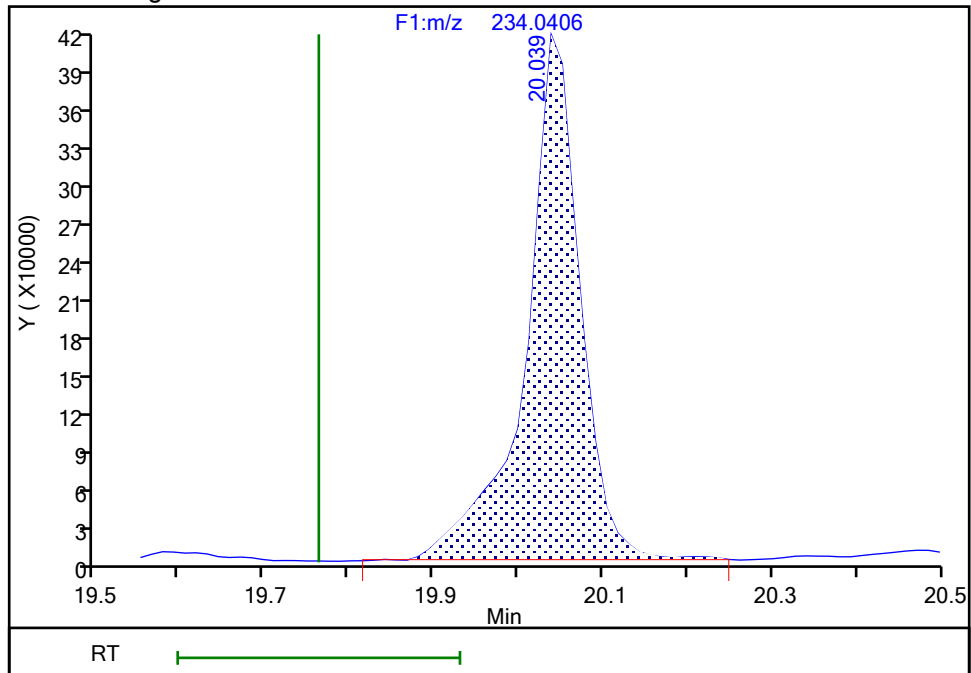
Not Detected
Expected RT: 19.76

Processing Integration Results



RT: 20.04
Area: 1884088
Amount: 38.418288
Amount Units: pg/ul

Manual Integration Results



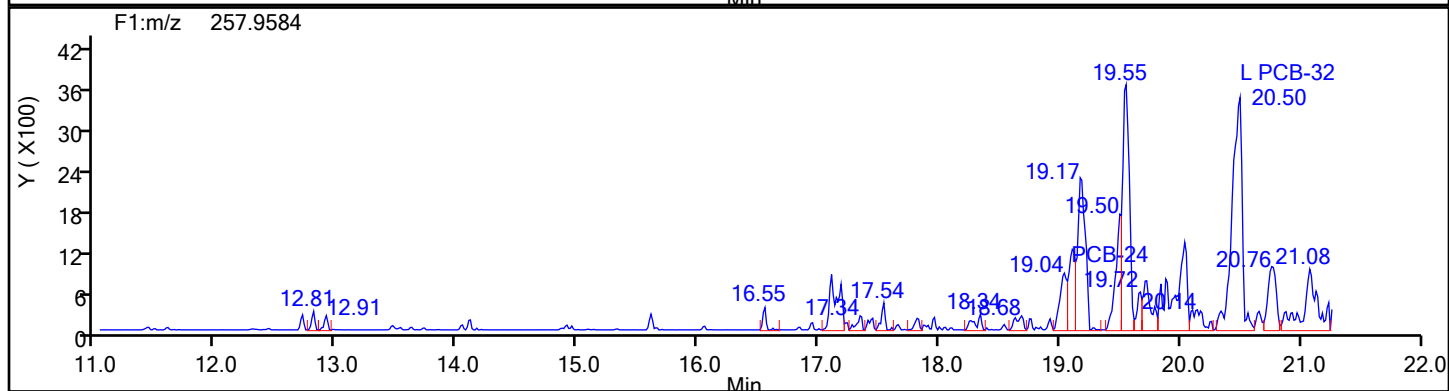
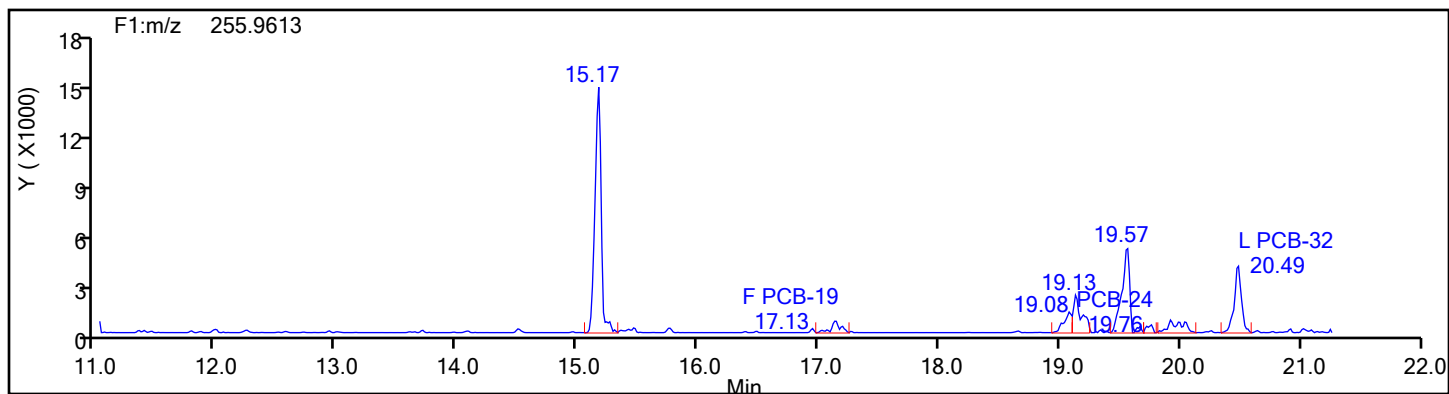
Reviewer: P0IK, 12-Jun-2024 15:09:42 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

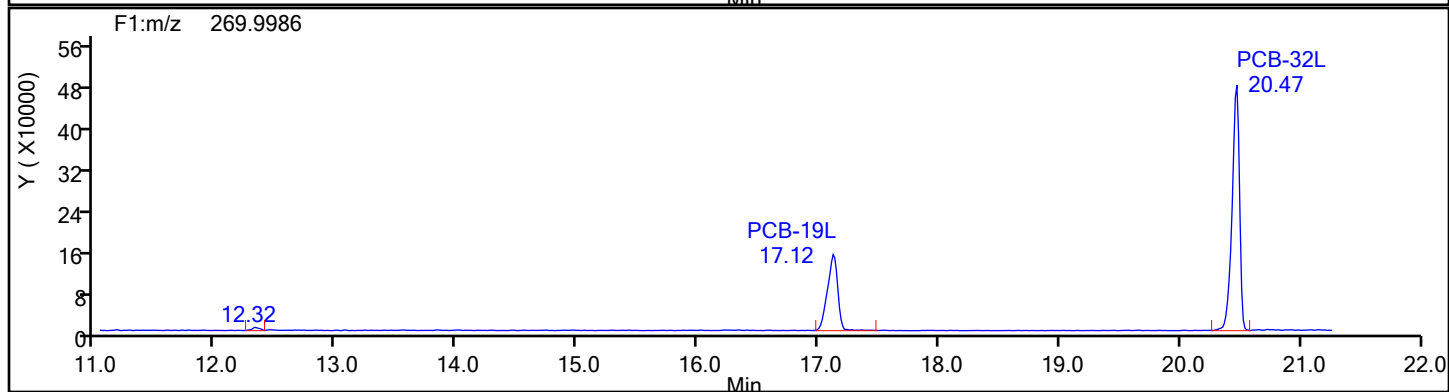
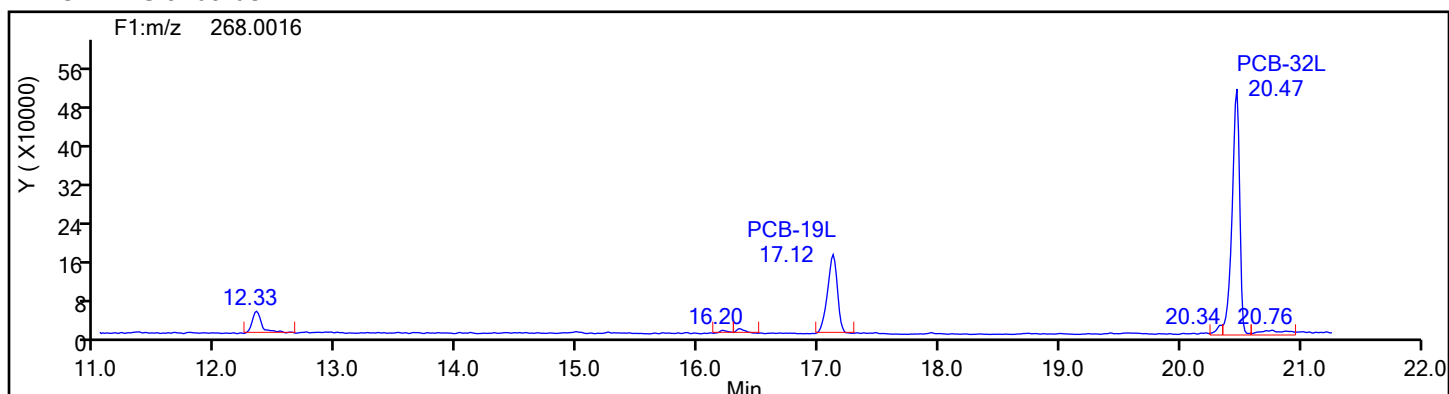
Audit Reason: Incomplete Integration

Eurofins Knoxville

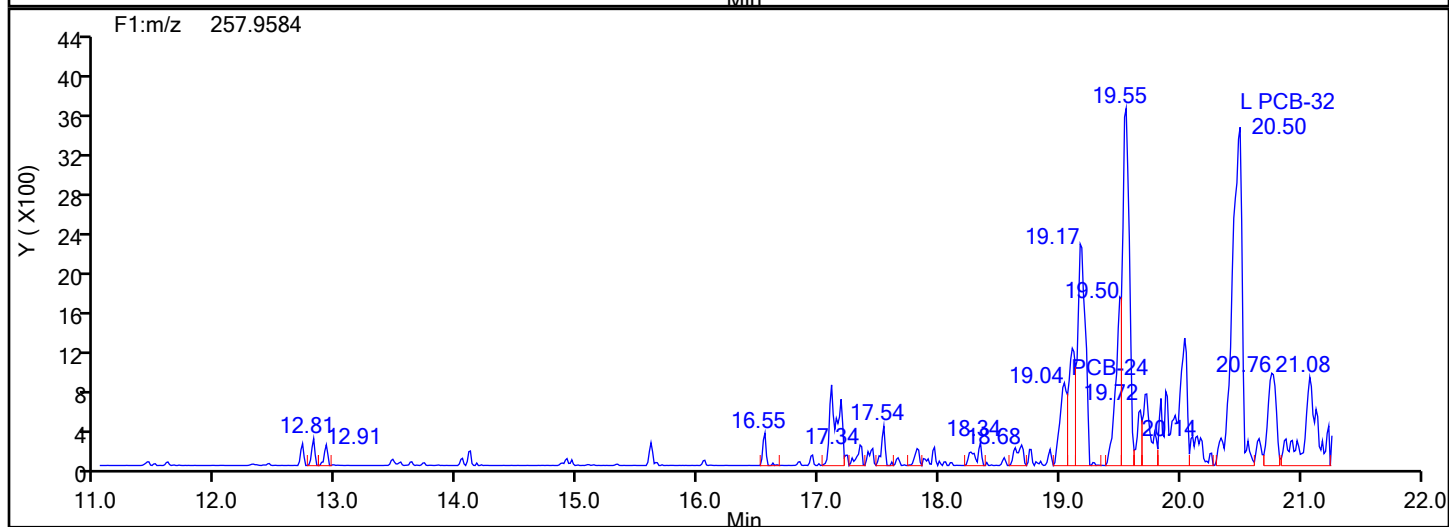
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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



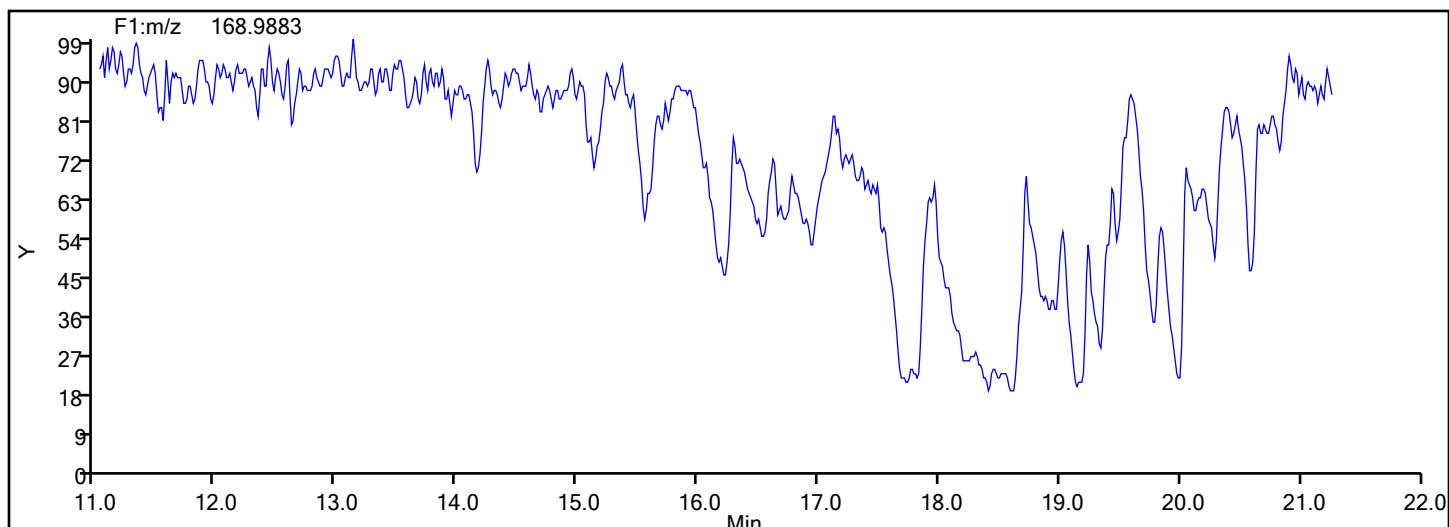
TriPCB F1 Standards



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d		
Injection Date:	12-Jun-2024 05:36:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23-NO.3 BOILER-RUN 6 COMBINED		
Worklist#:	87536	Sample Line#:	11
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TriPCB F1			

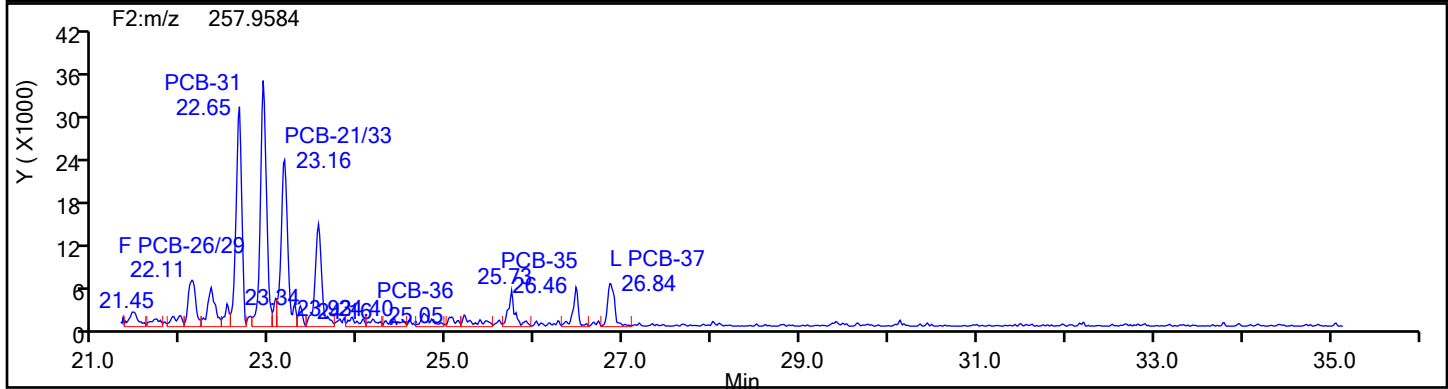
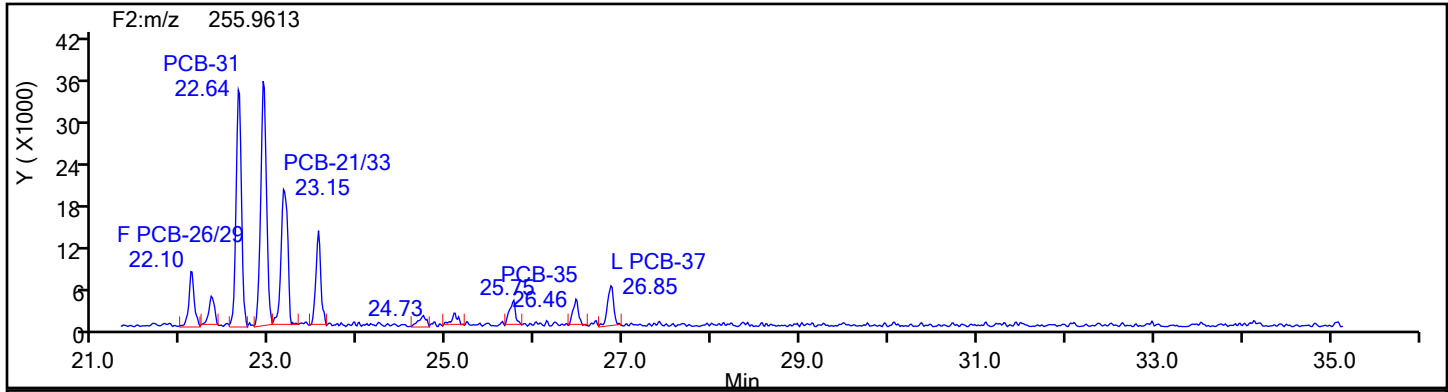


TriPCB F1 Lock Mass

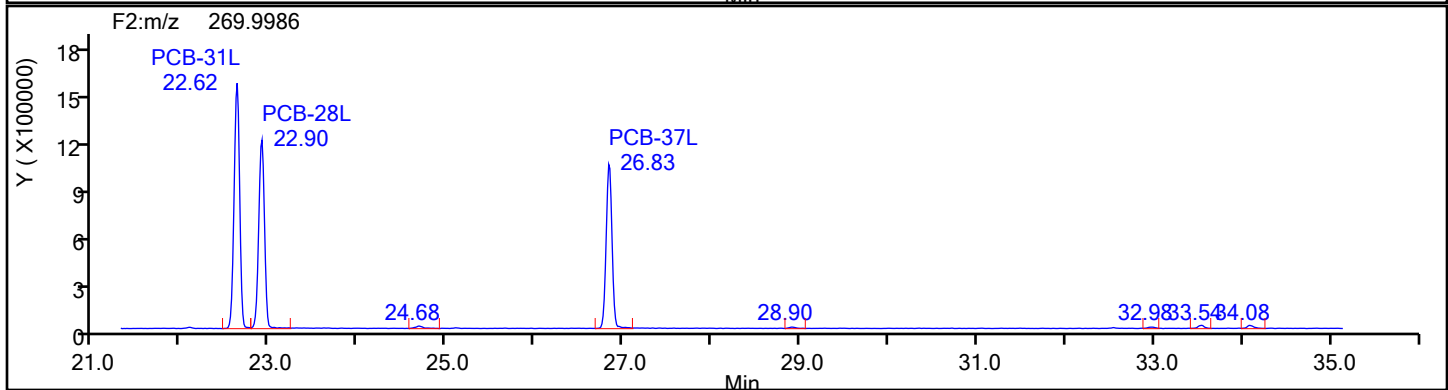
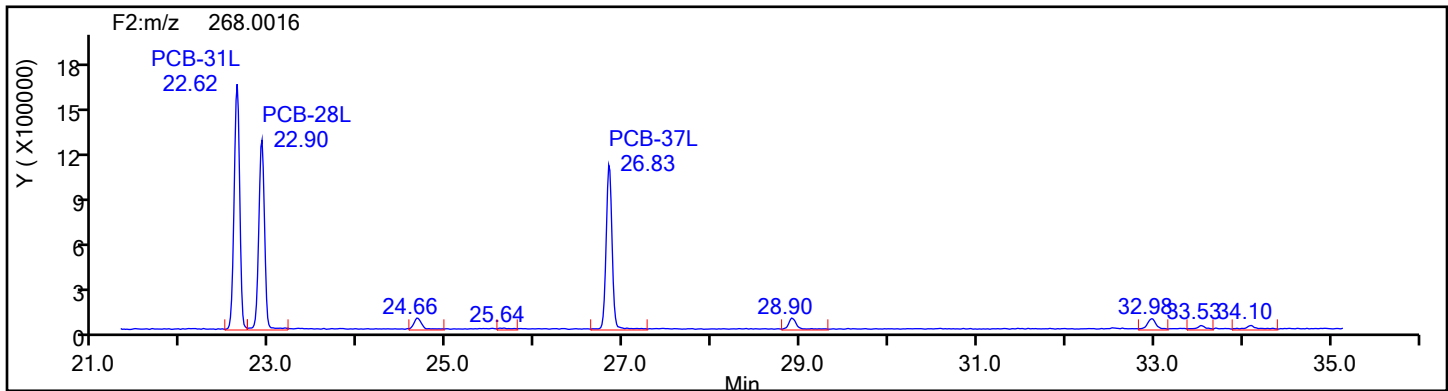


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

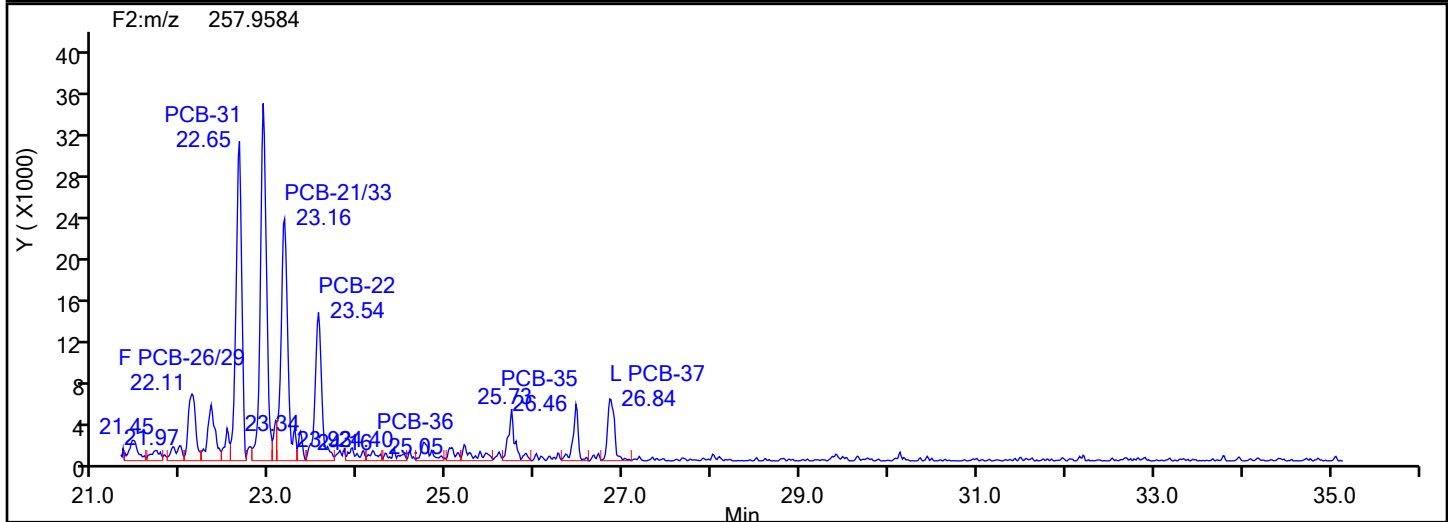
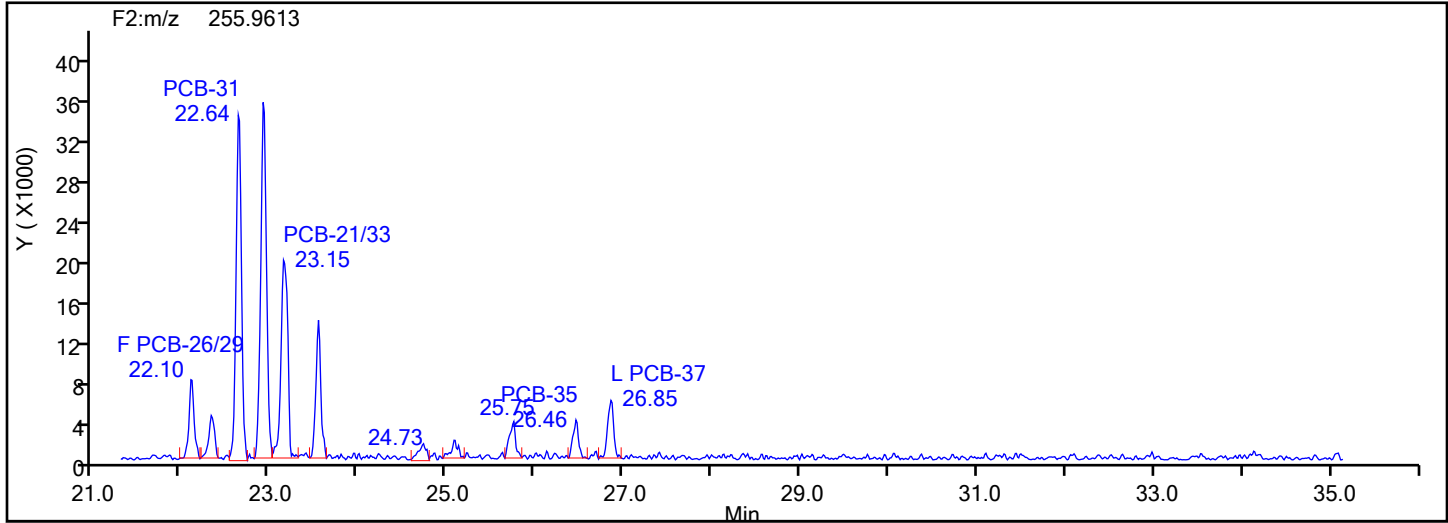


TriPCB F2 Standards

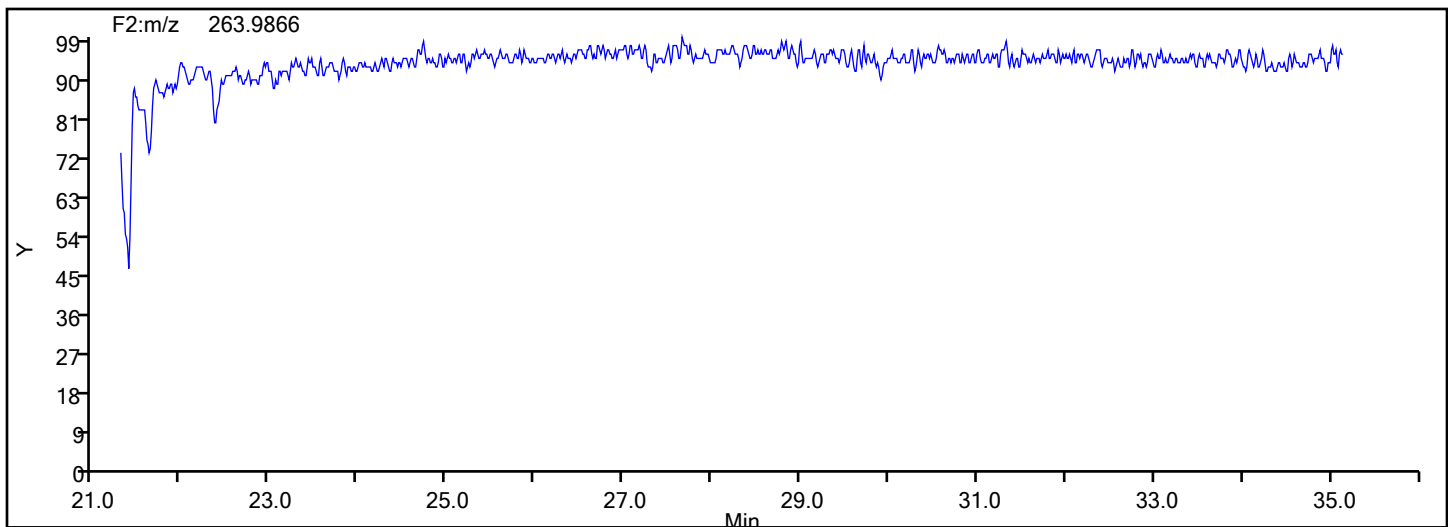


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

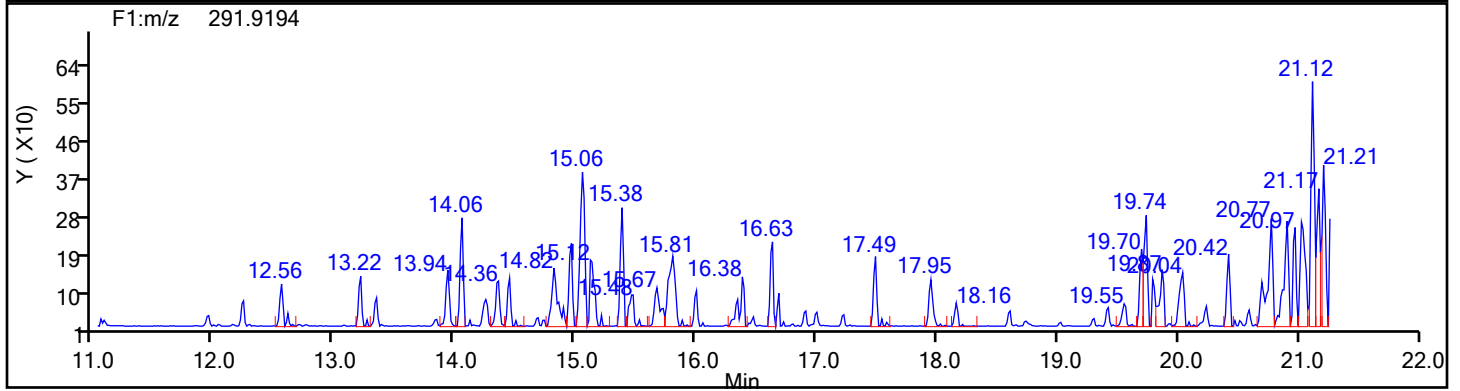
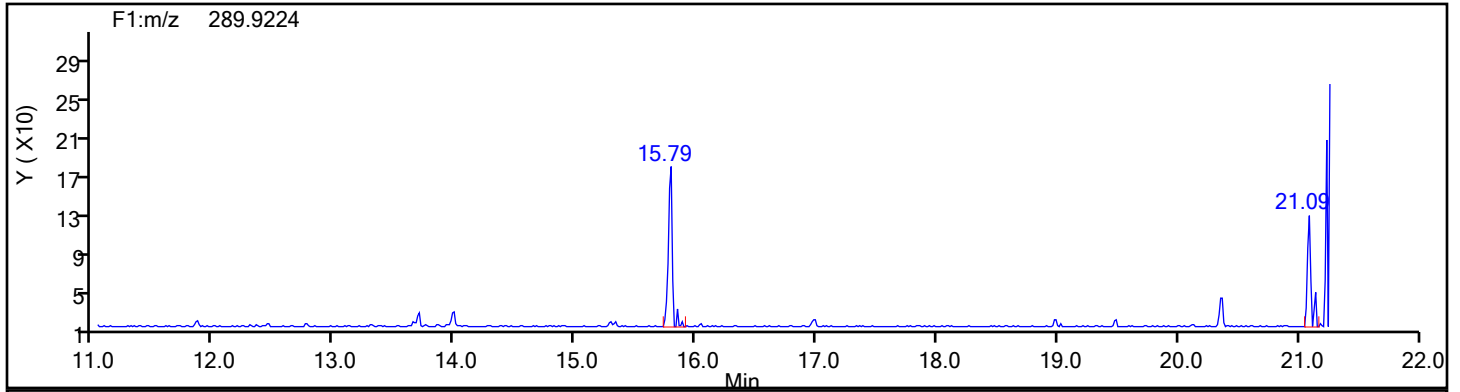


TriPCB F2 Lock Mass

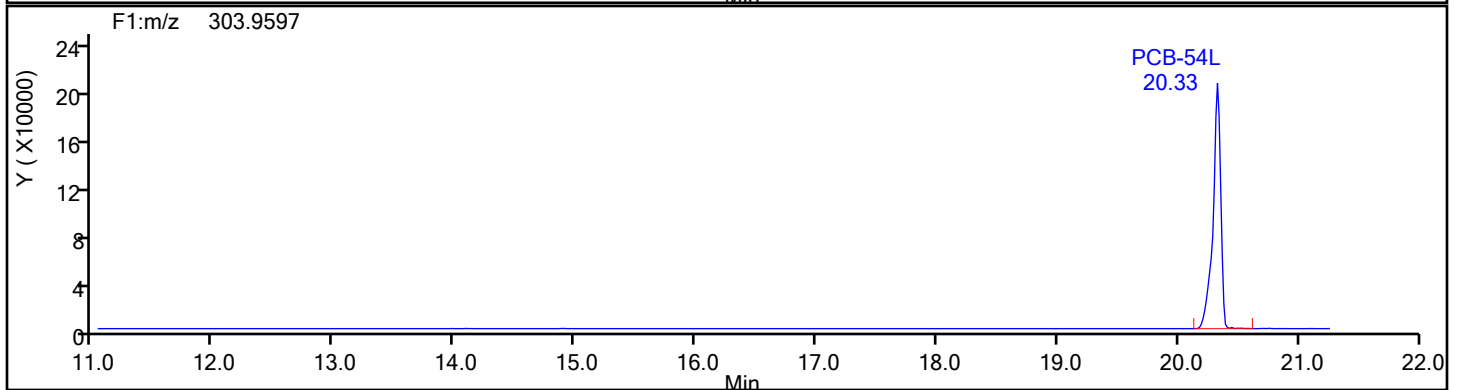
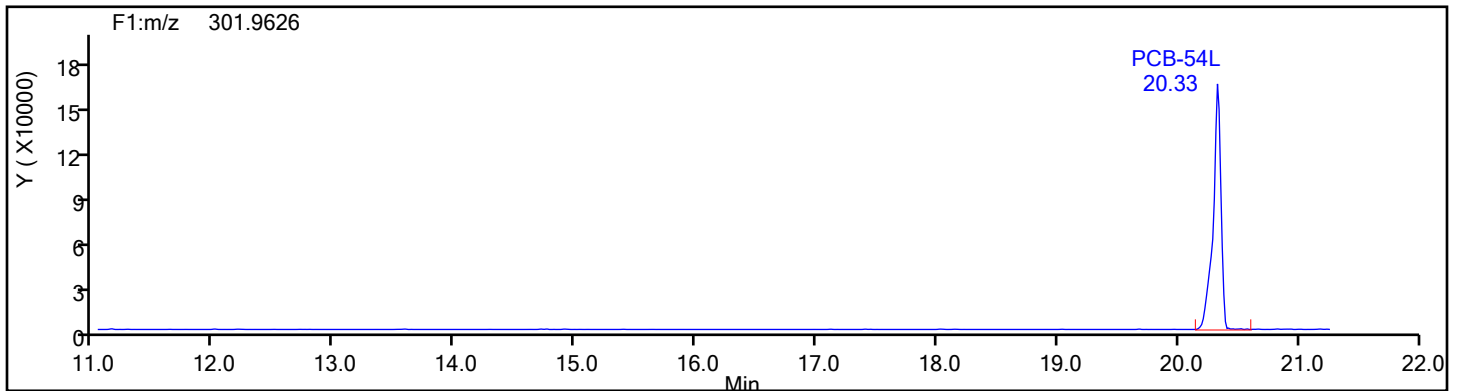


Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

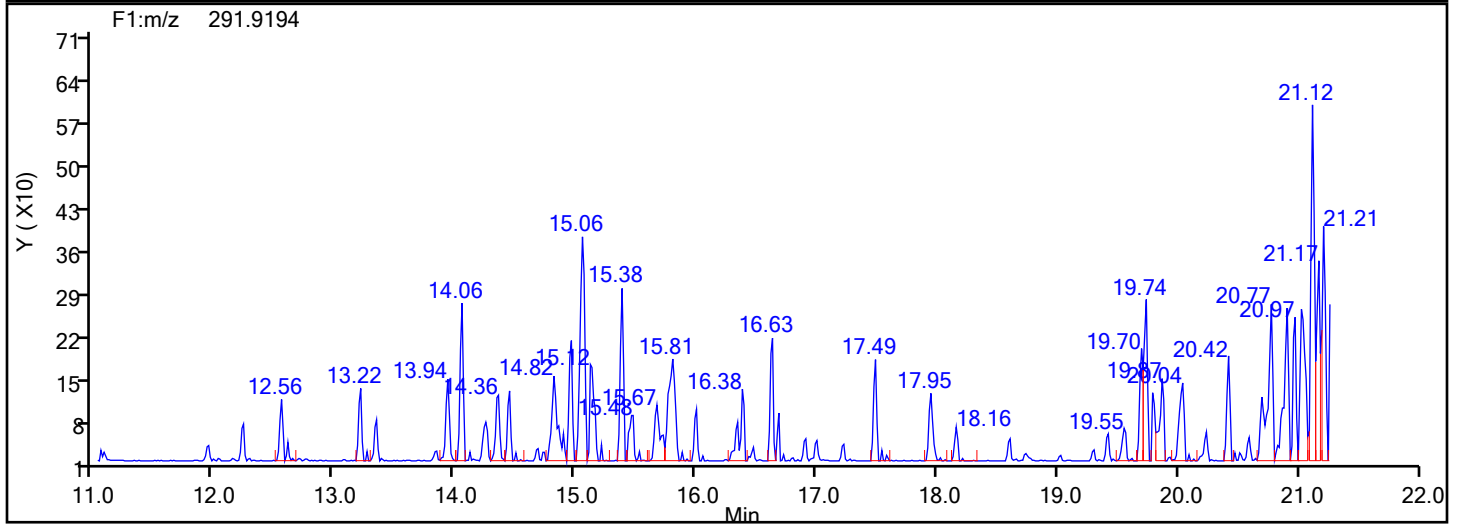
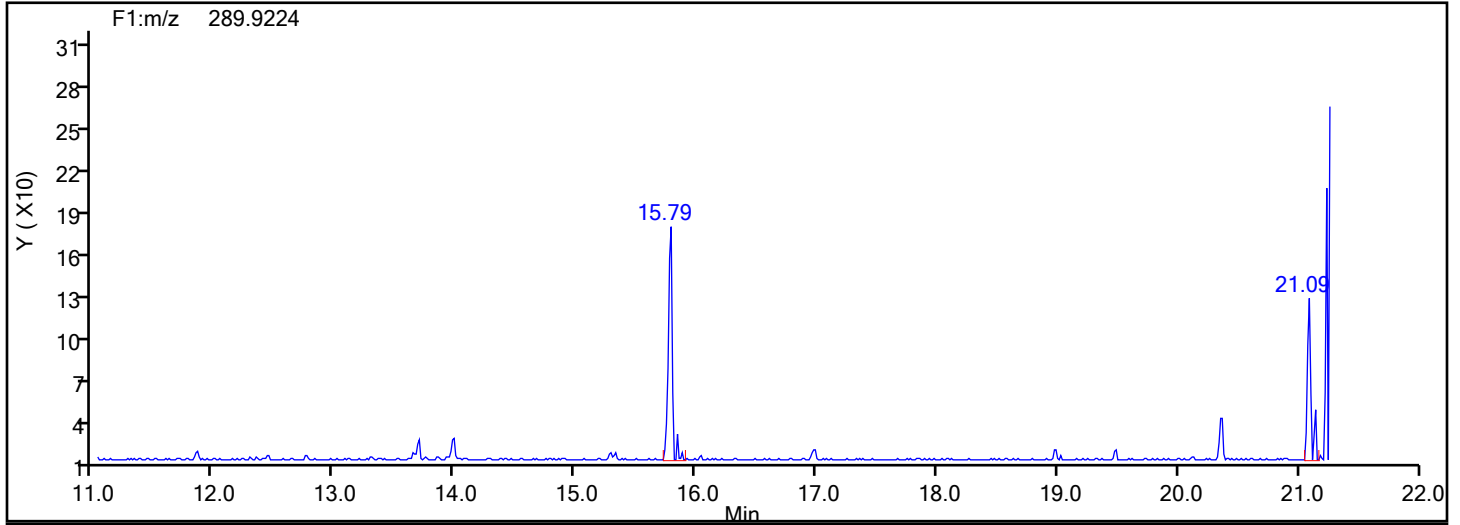


TePCB F1 Standards

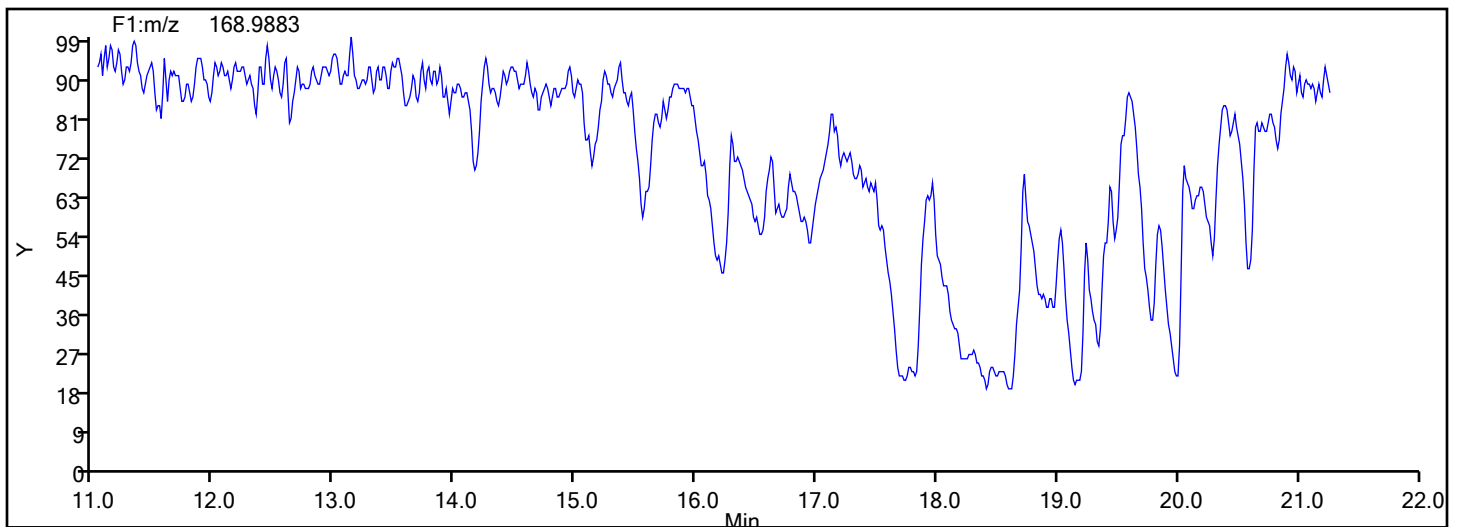


Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

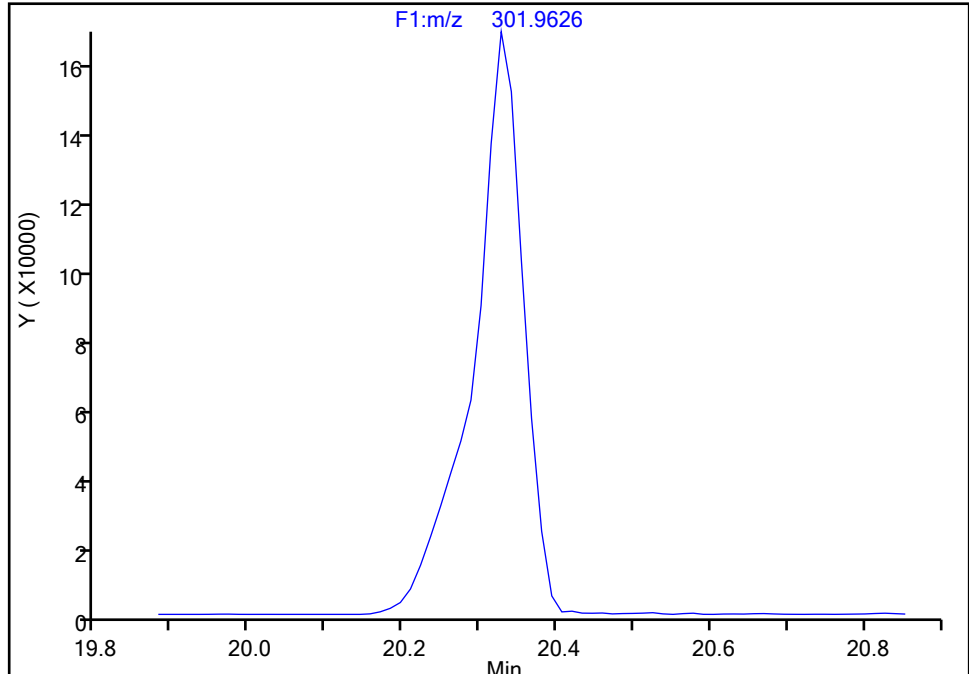
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Injection Date: 12-Jun-2024 05:36:00 Instrument ID: D2D
Lims ID: 140-36689-A-6-C Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 1

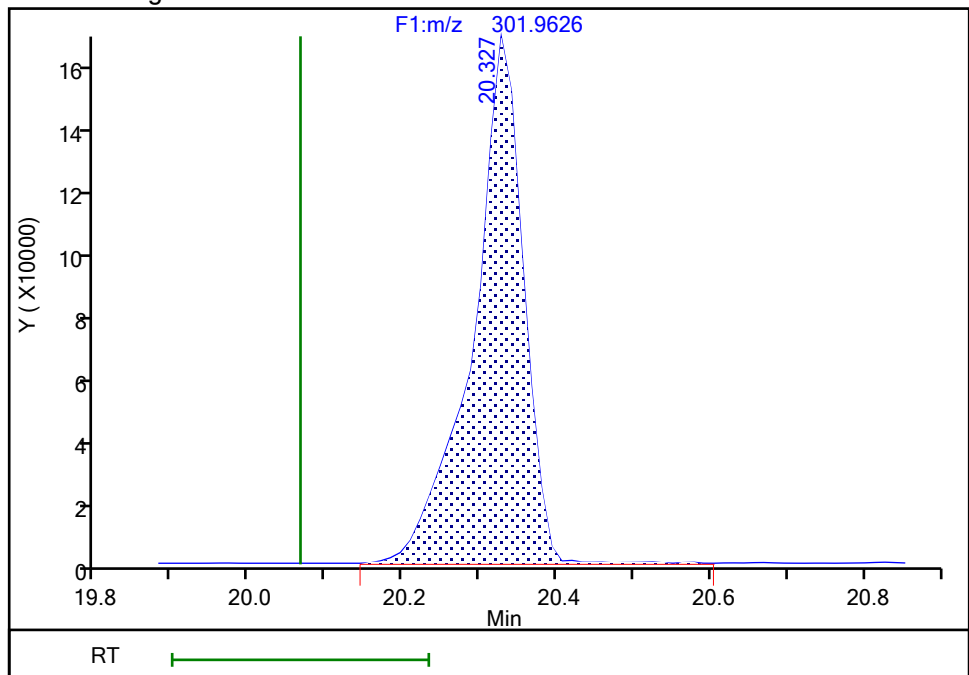
Not Detected
Expected RT: 20.07

Processing Integration Results



RT: 20.33
Area: 749256
Amount: 69.972497
Amount Units: pg/ul

Manual Integration Results



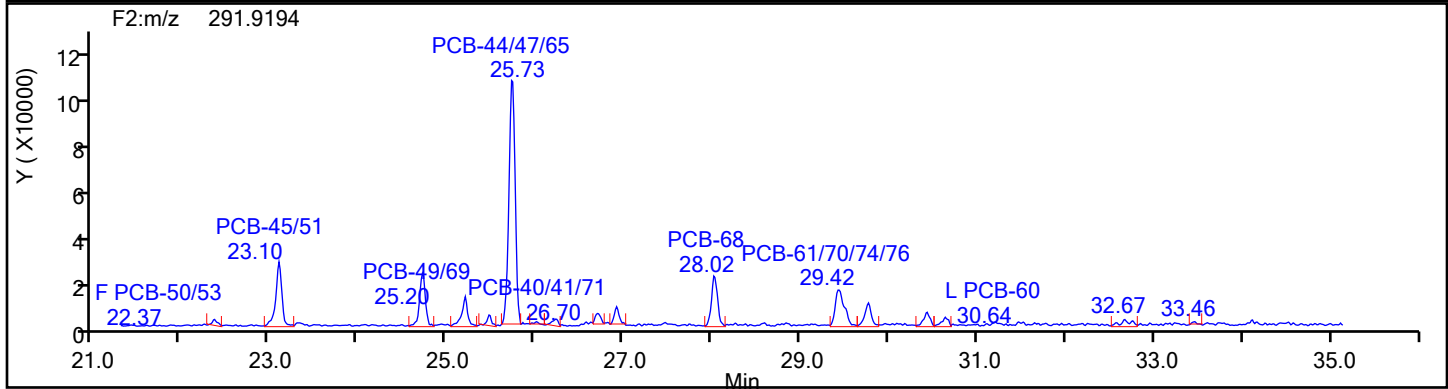
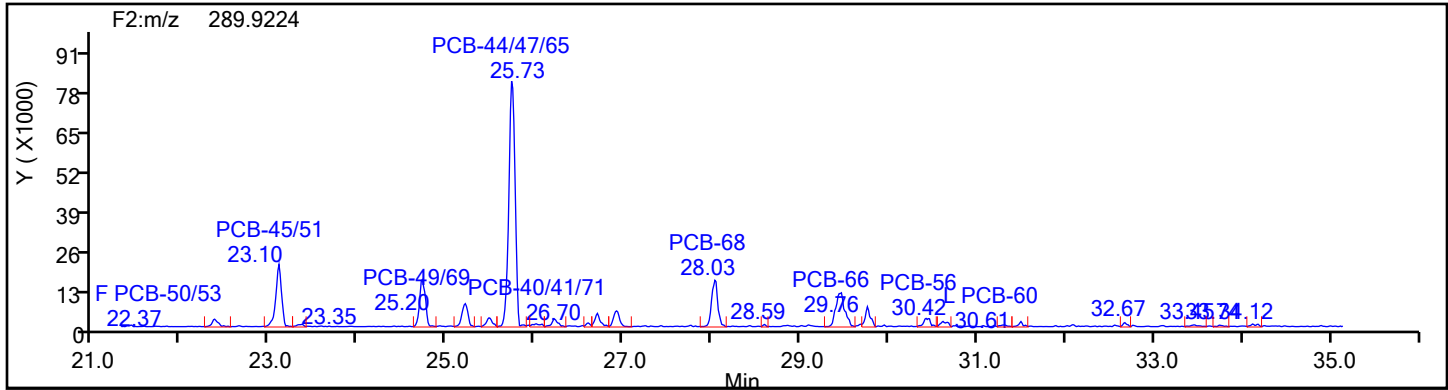
Reviewer: P0IK, 12-Jun-2024 15:12:37 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

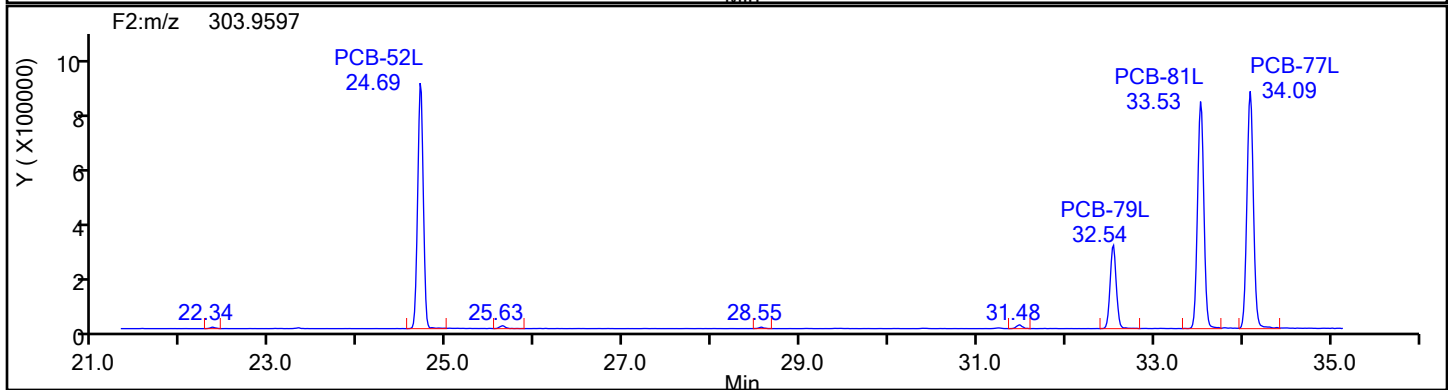
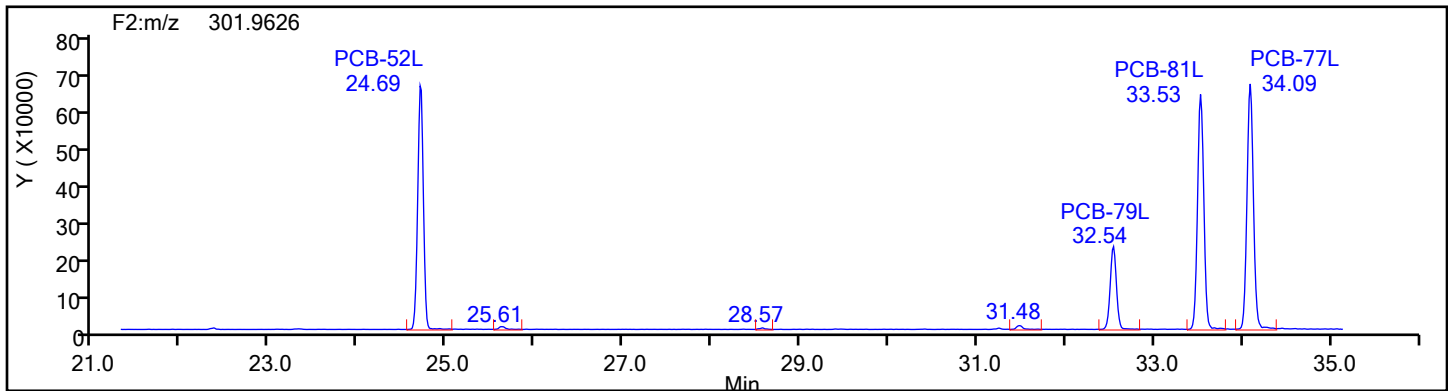
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

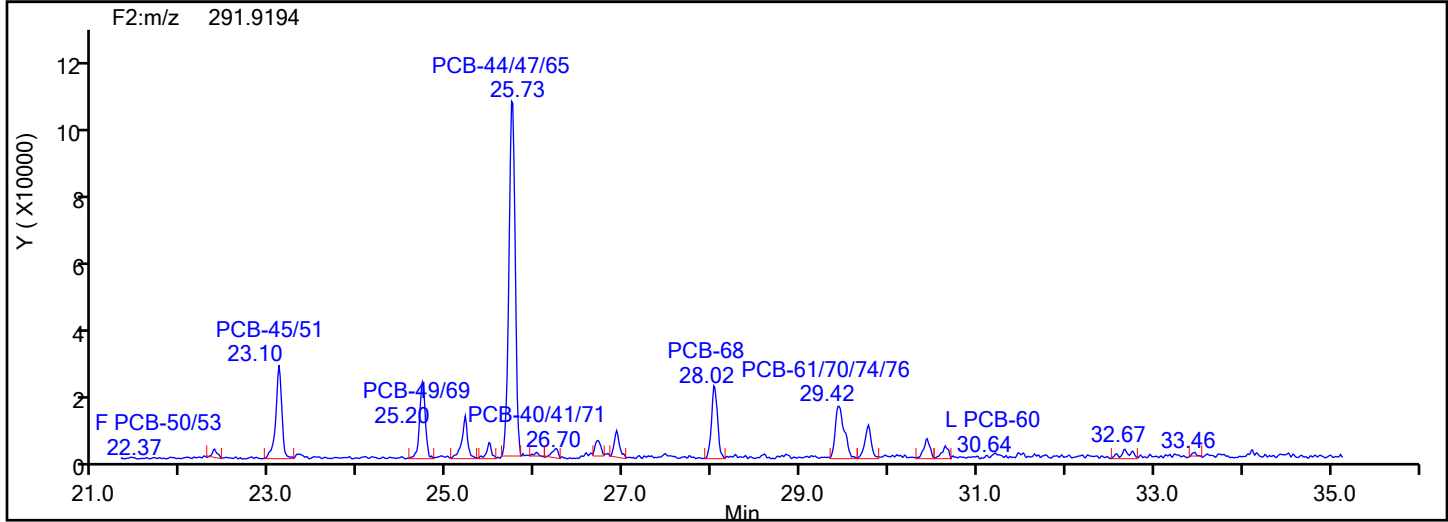
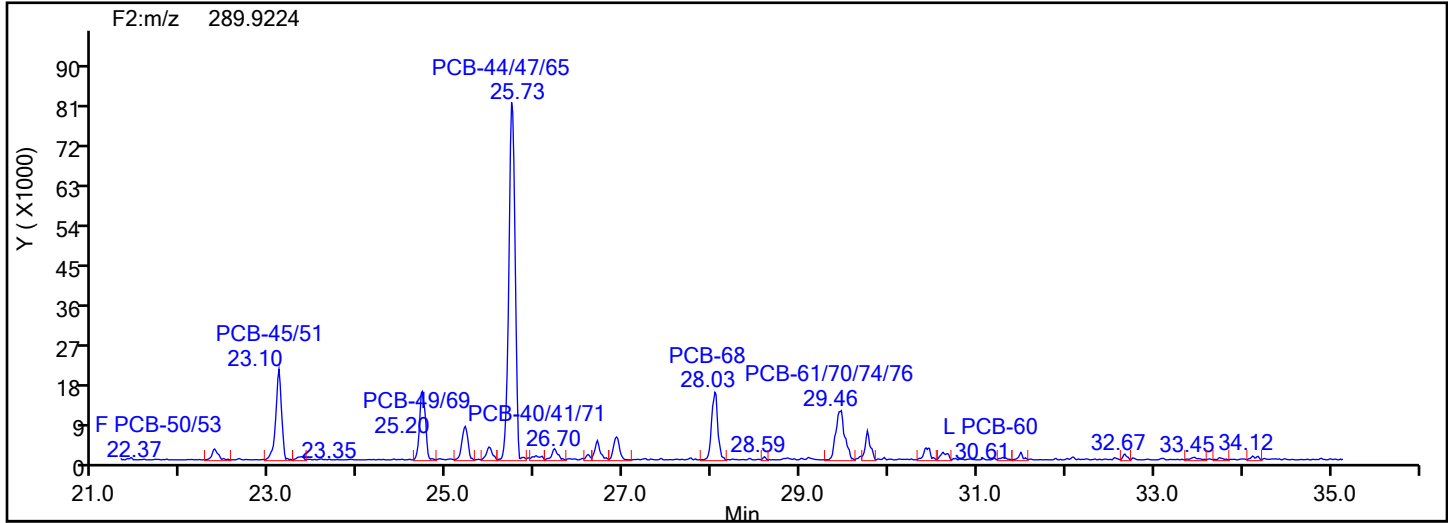


TePCB F2 Standards

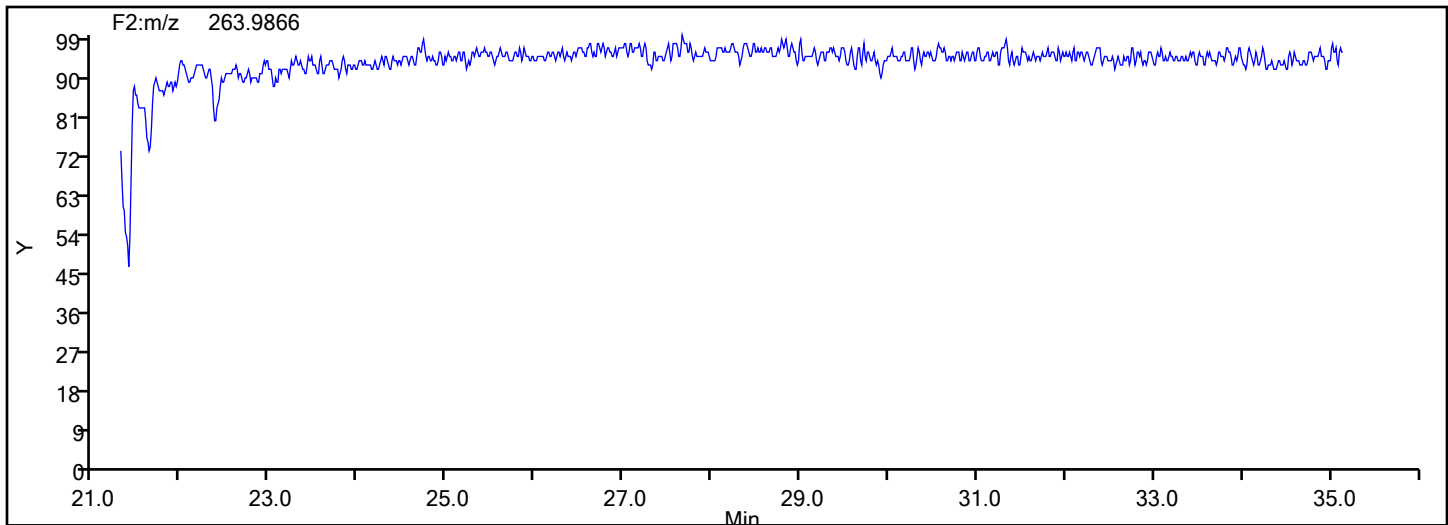


Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

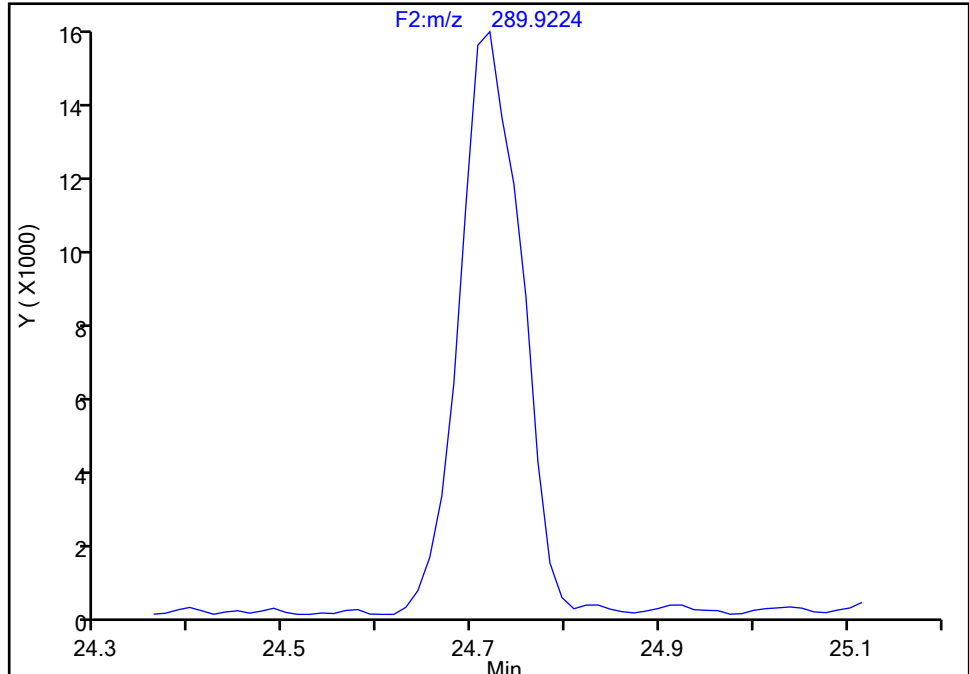
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Injection Date: 12-Jun-2024 05:36:00 Instrument ID: D2D
Lims ID: 140-36689-A-6-C Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 1

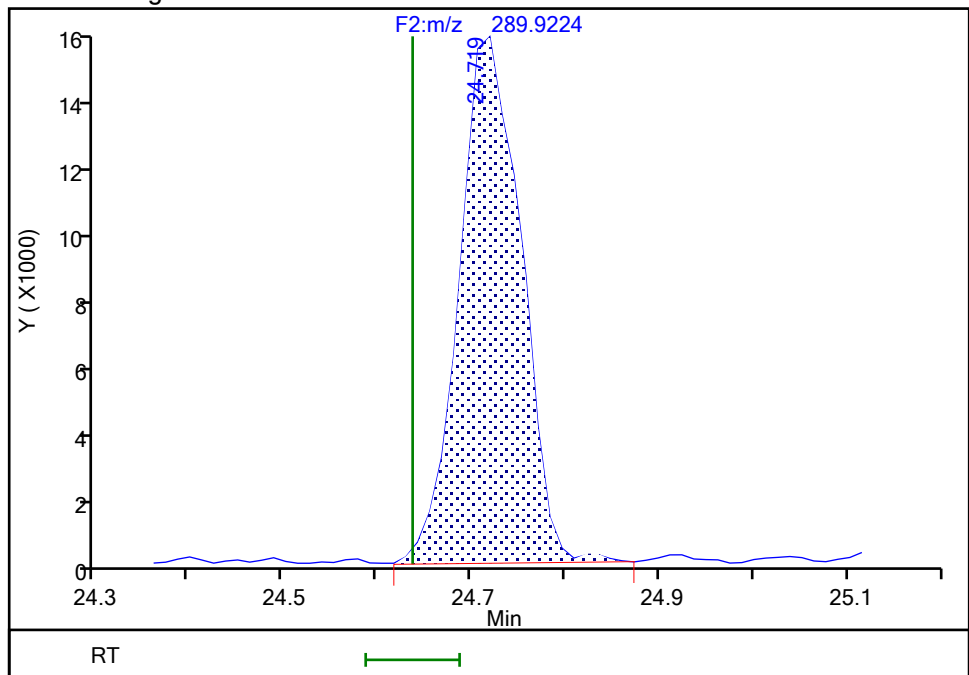
Not Detected
Expected RT: 24.64

Processing Integration Results



RT: 24.72
Area: 71430
Amount: 2.496973
Amount Units: pg/ul

Manual Integration Results



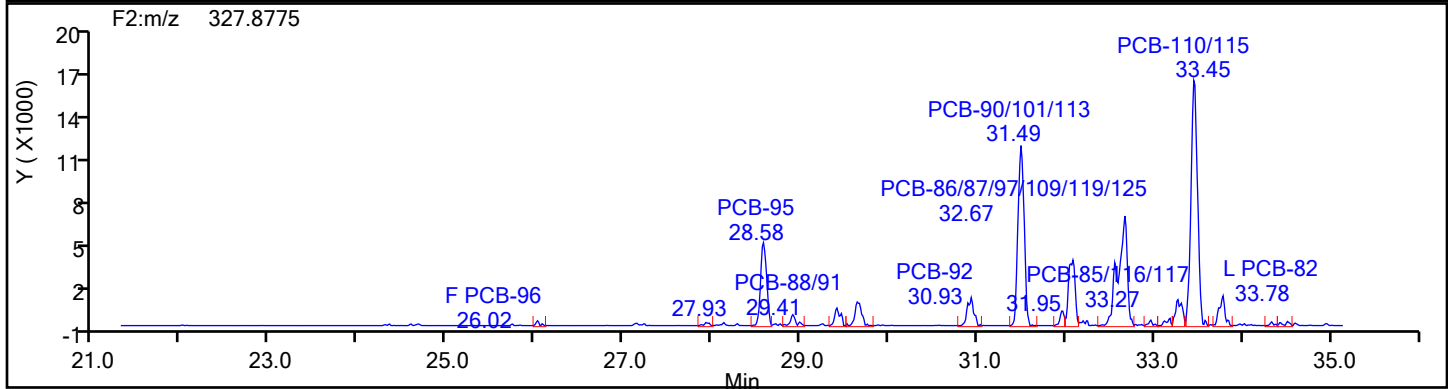
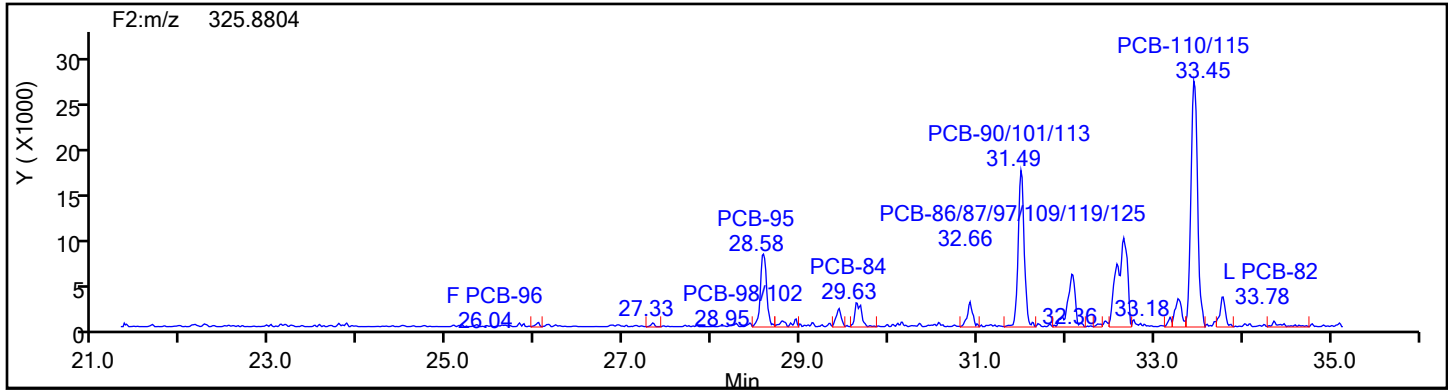
Reviewer: P0IK, 12-Jun-2024 15:12:58 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

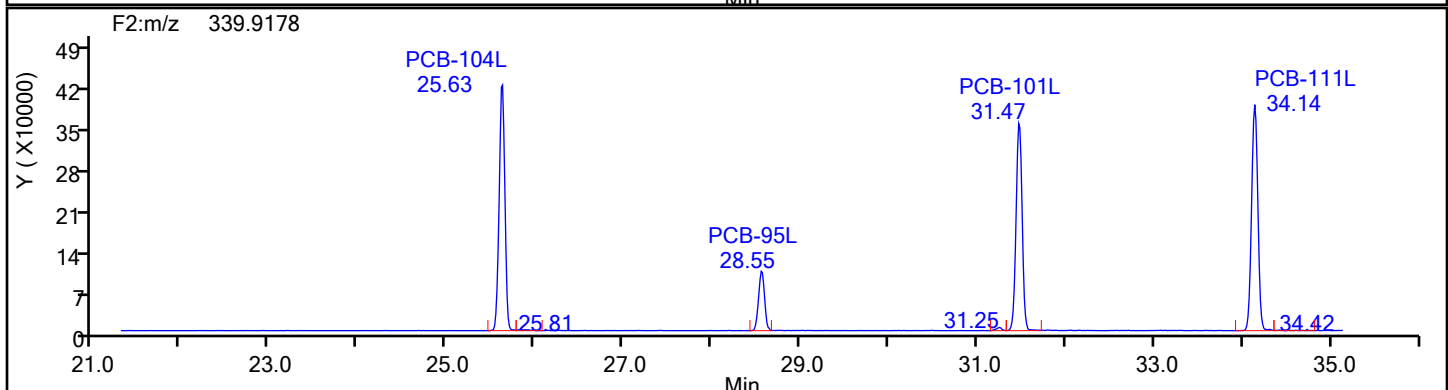
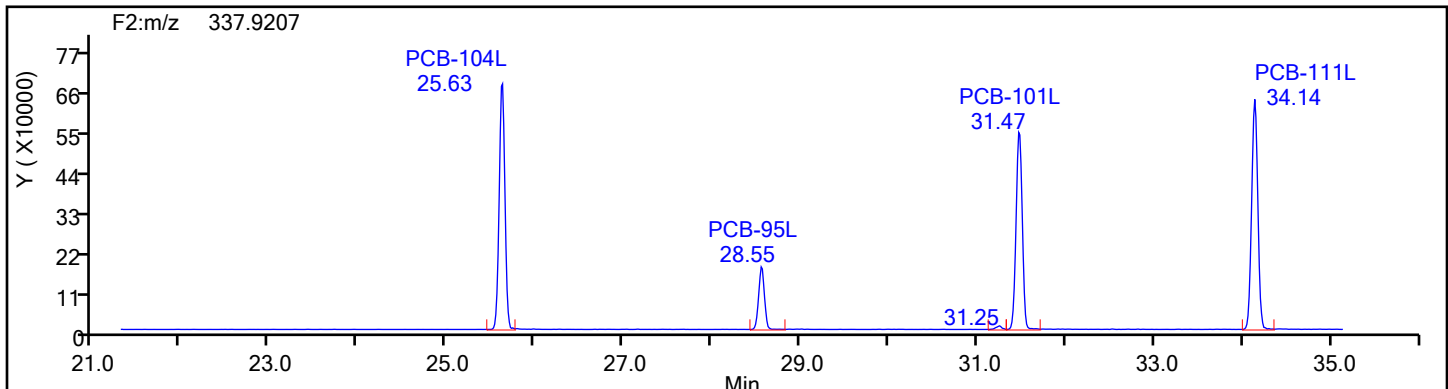
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

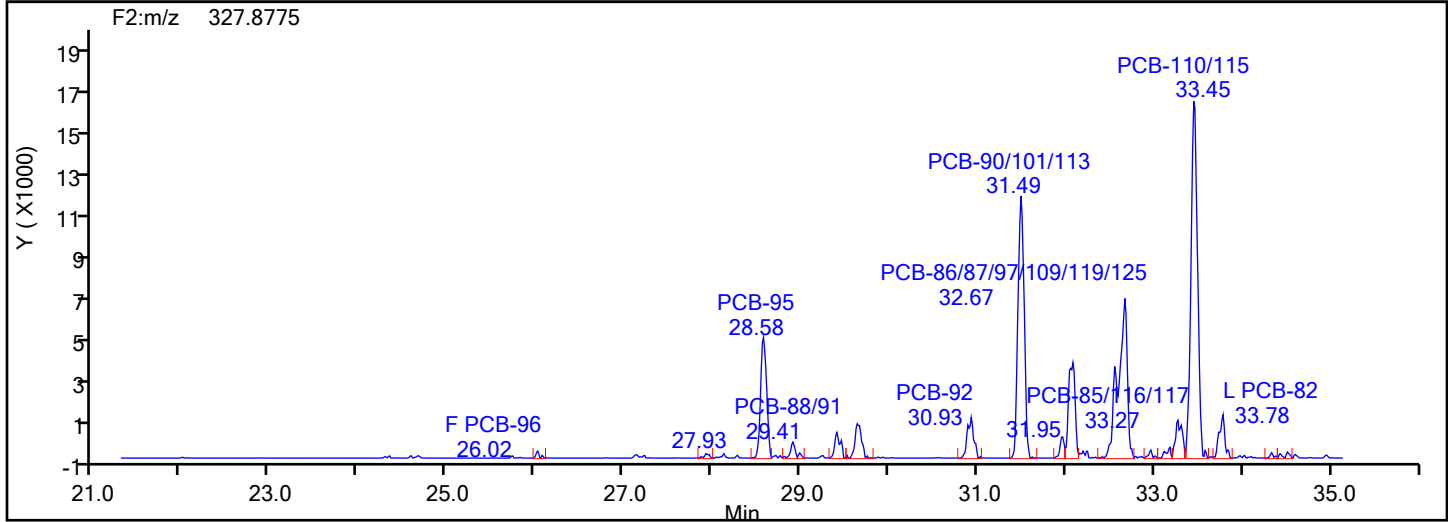
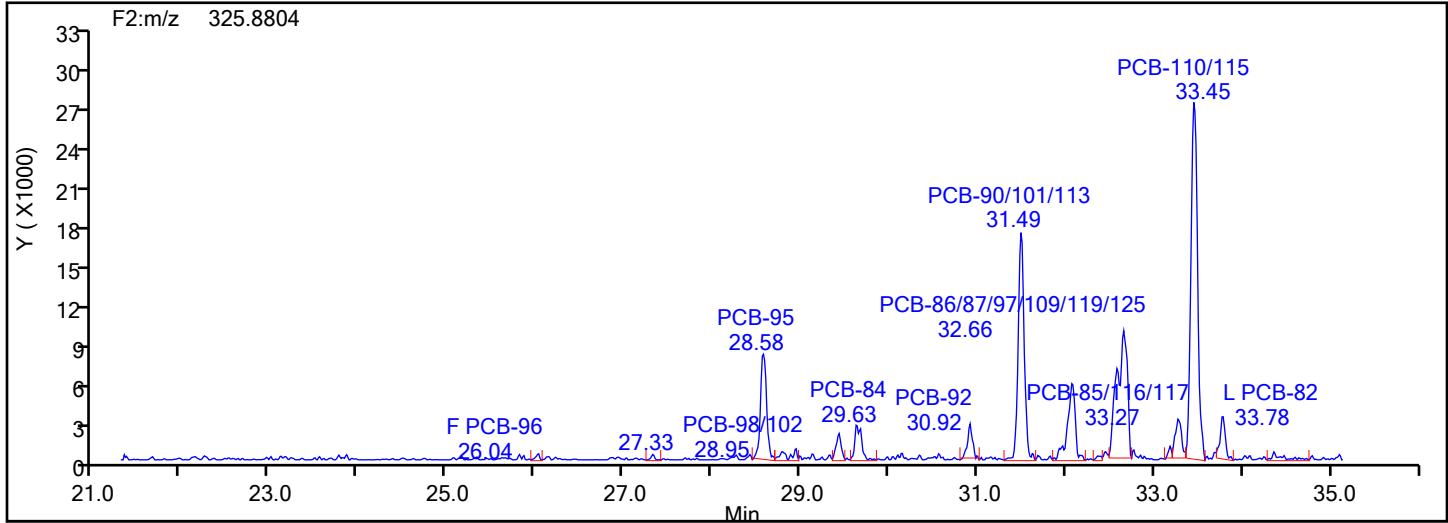


PePCB F2 Standards

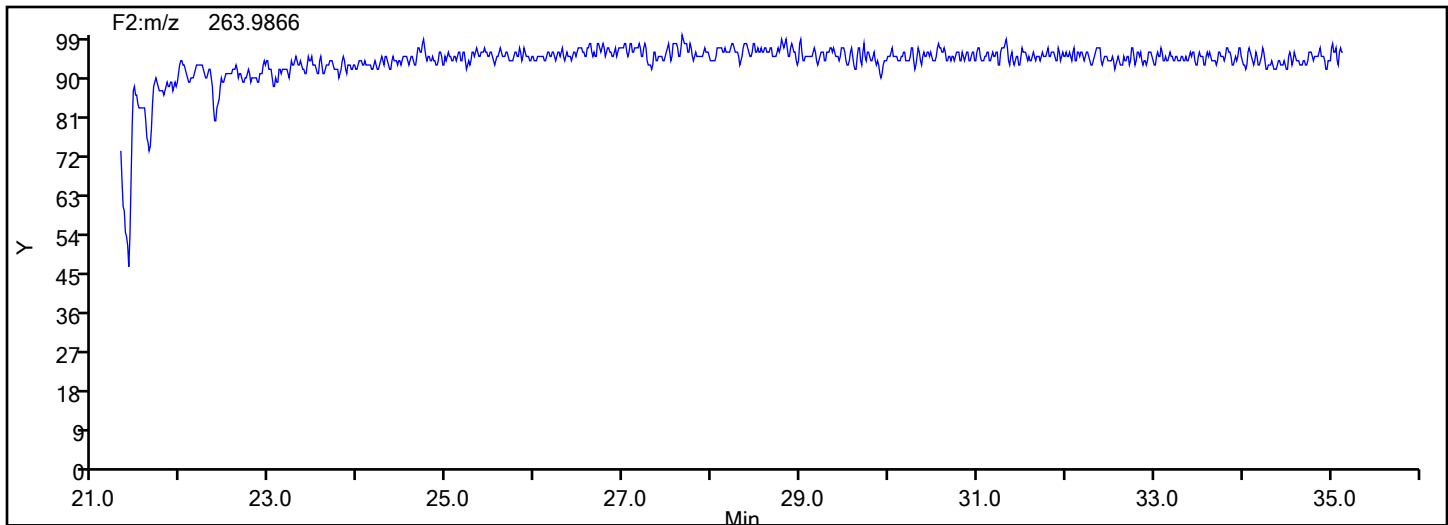


Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d

Injection Date: 12-Jun-2024 05:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 6 COMBINED

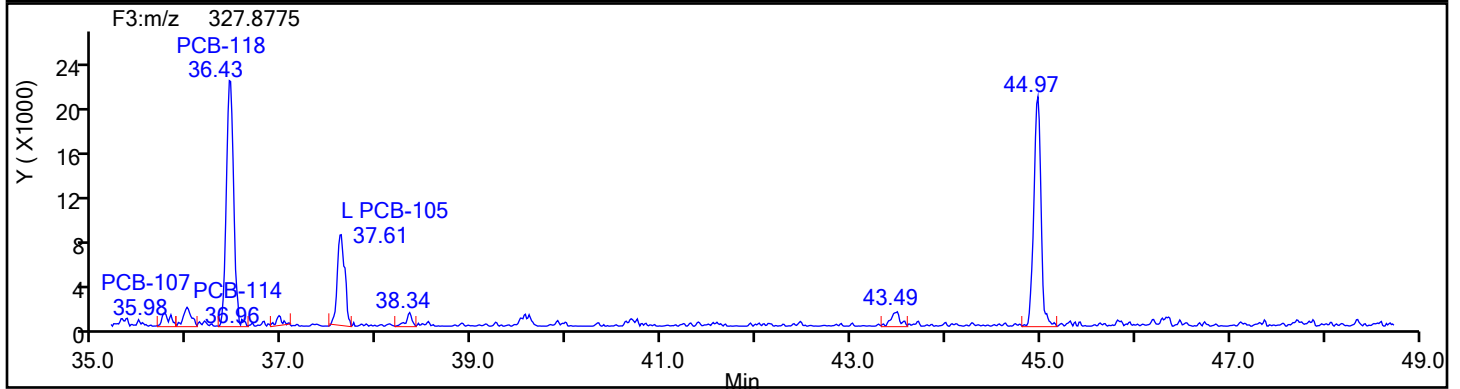
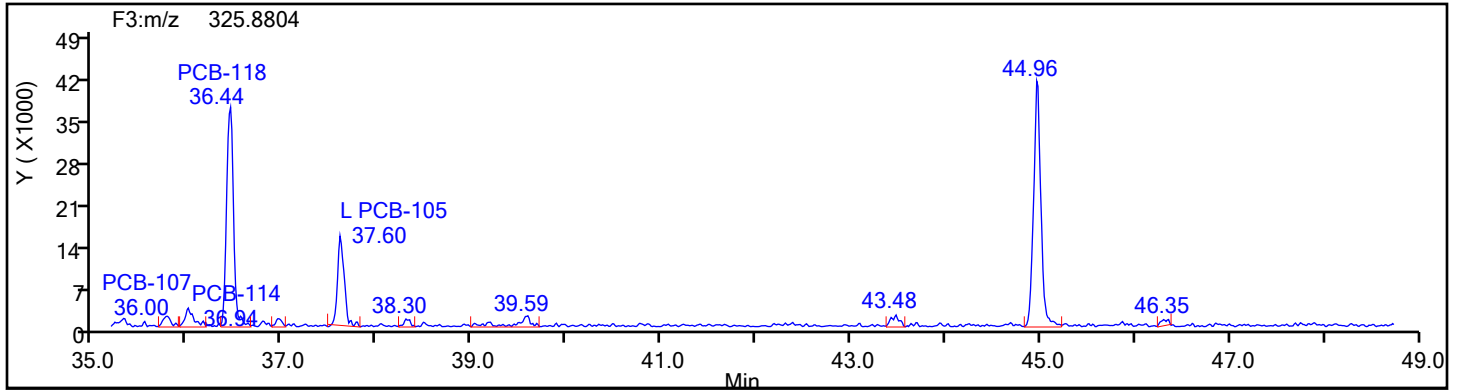
Worklist#: 87536

Sample Line#: 11

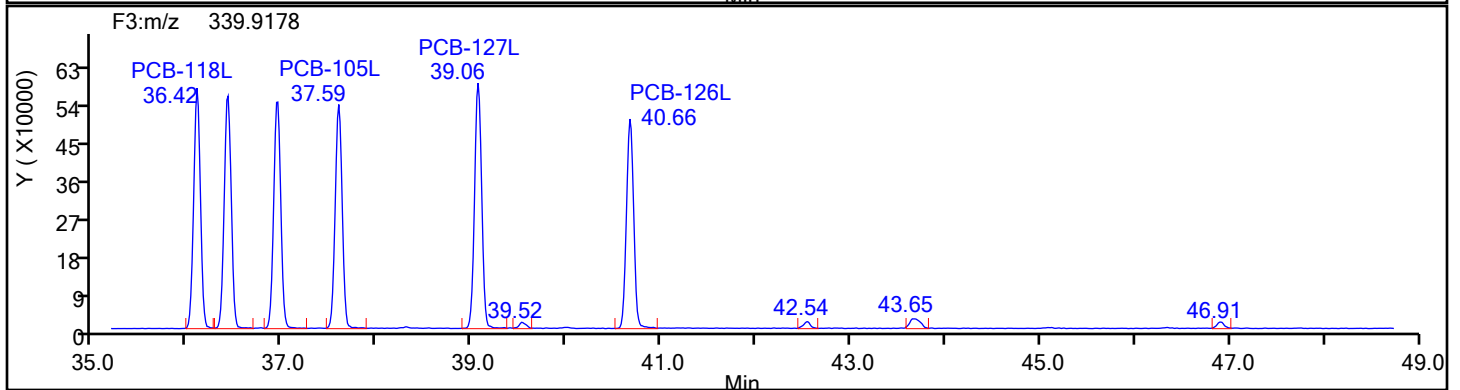
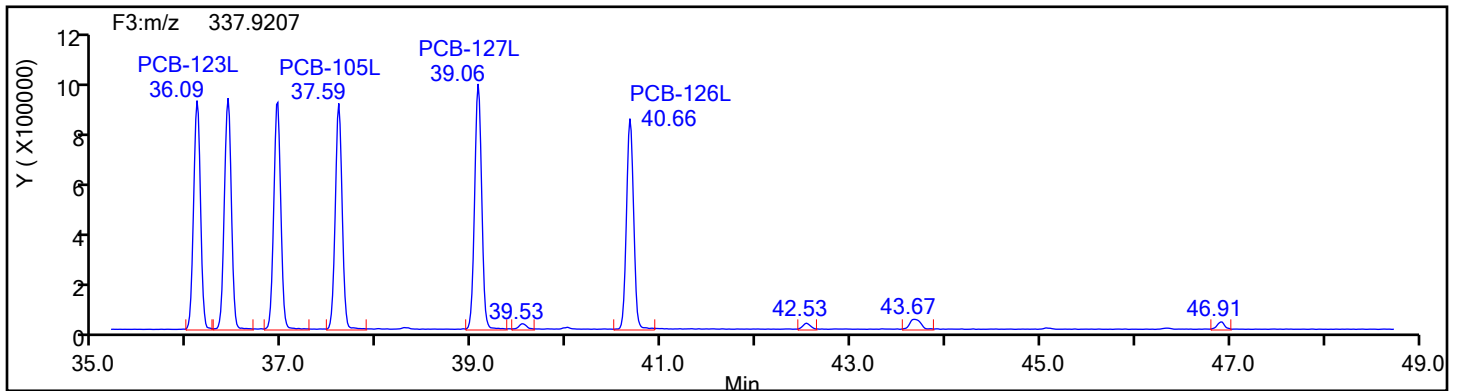
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 6 COMBINED

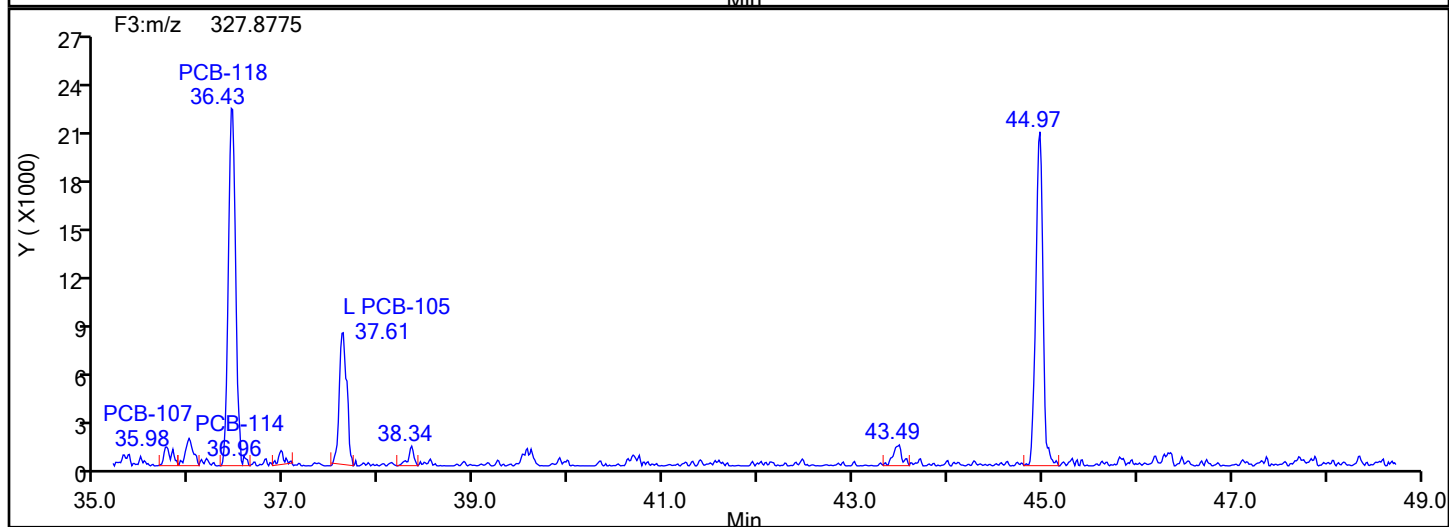
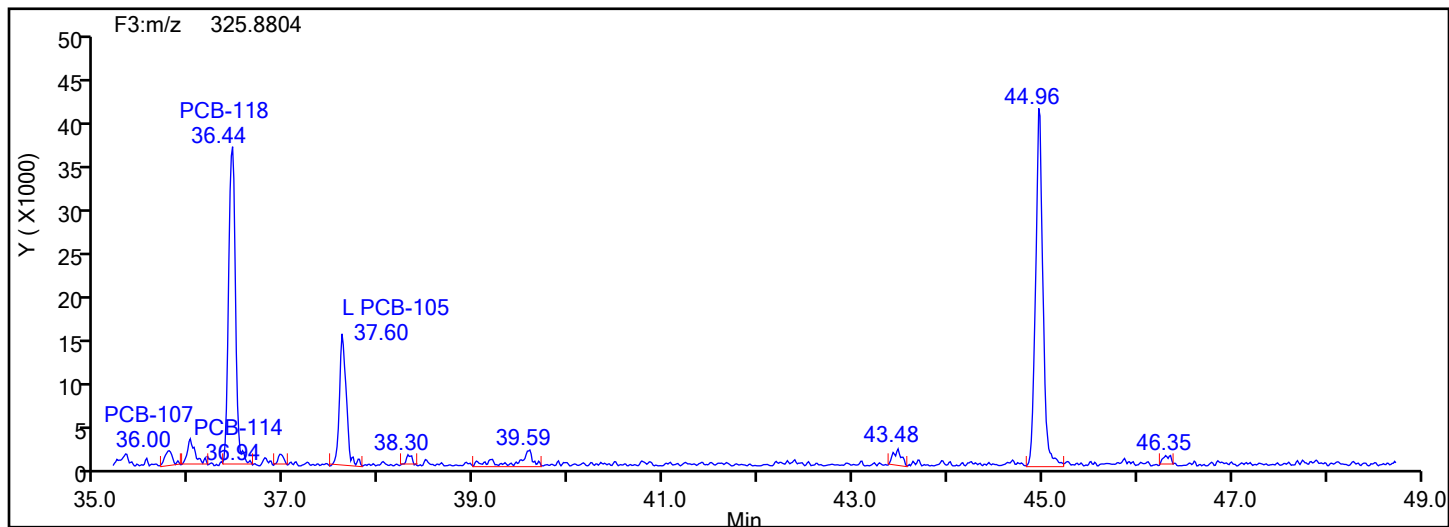
Worklist#: 87536

Sample Line#: 11

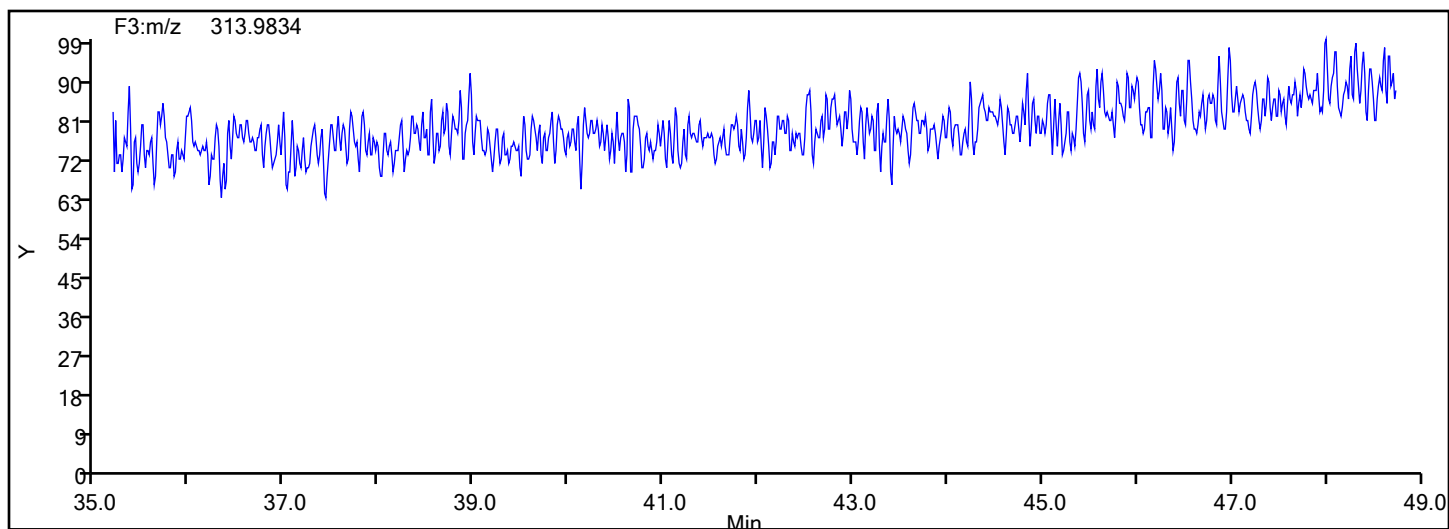
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



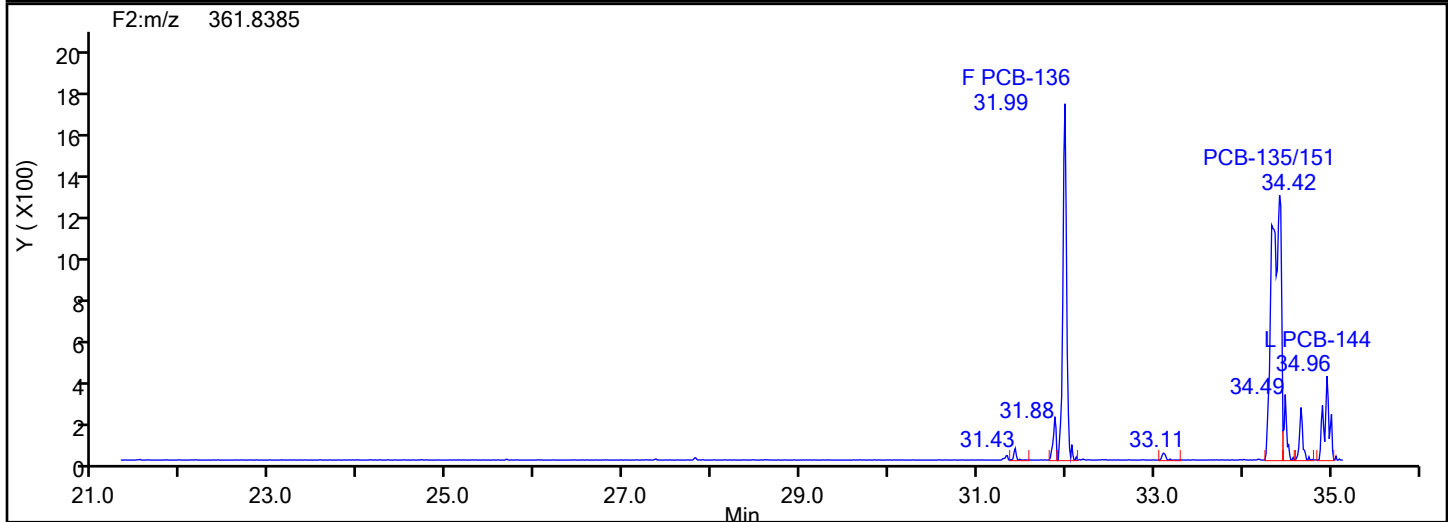
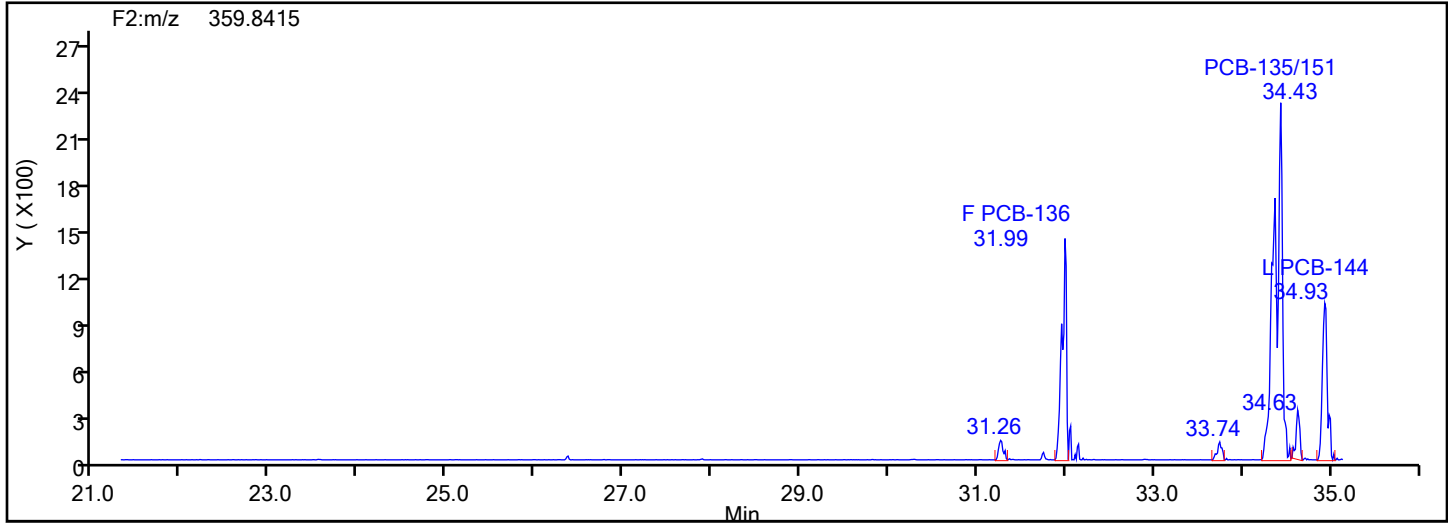
PePCB F3 Lock Mass



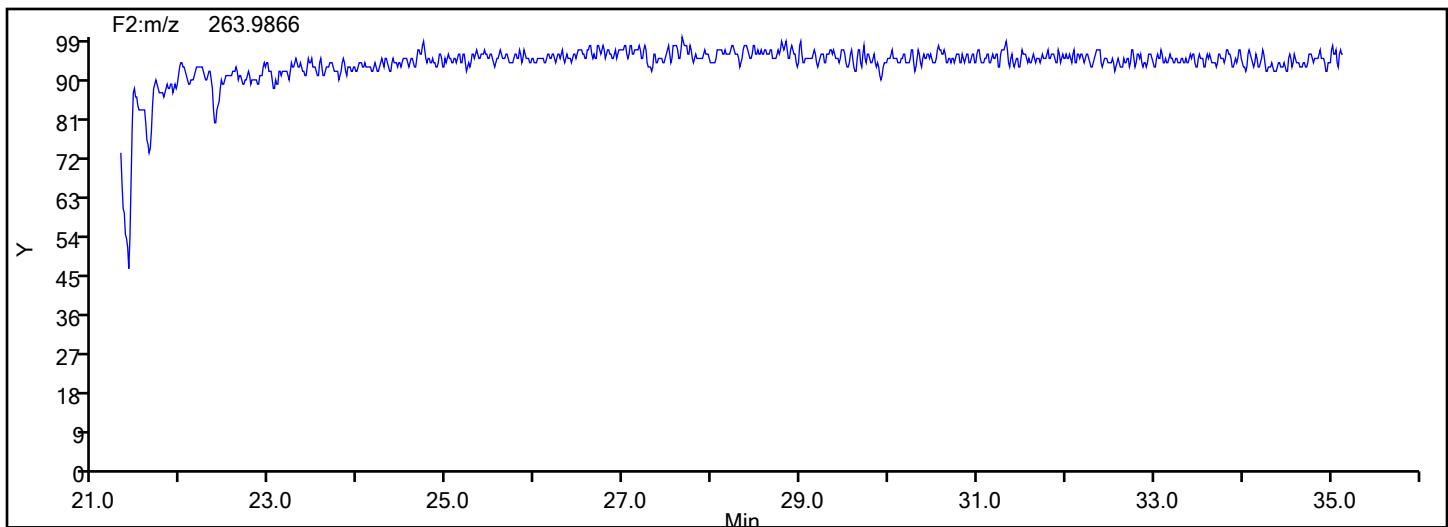
Column Dia: 0.25 mm

Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

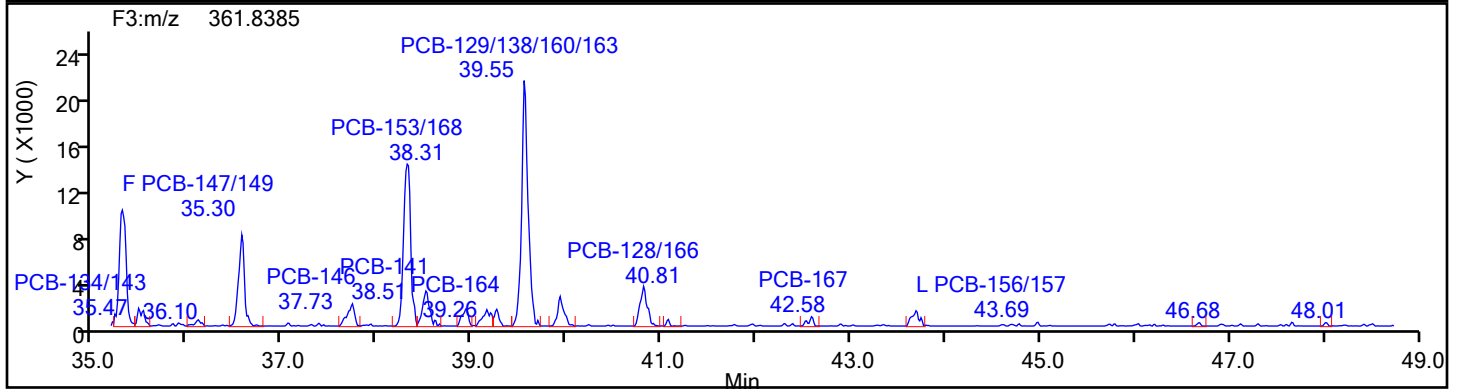
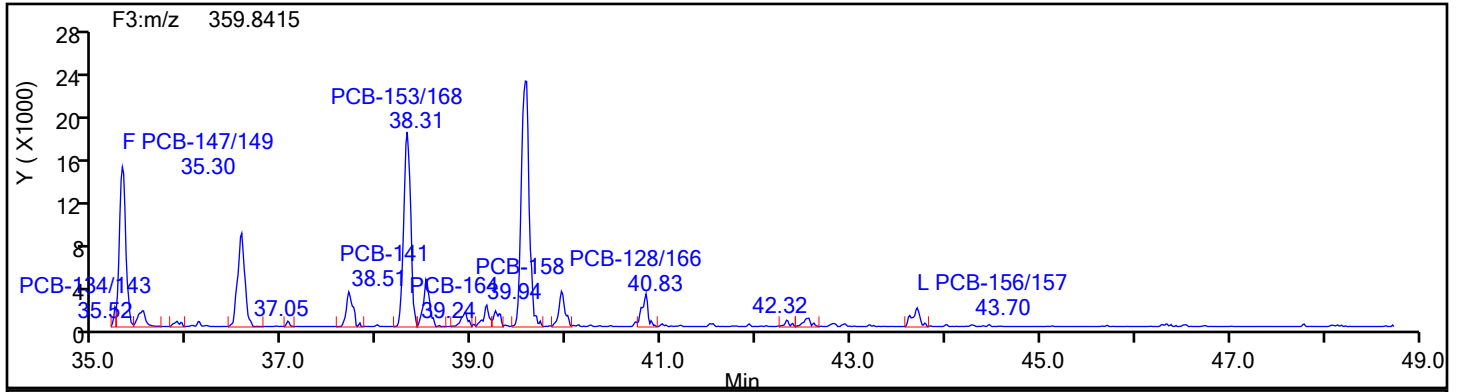


HxPCB F2 Lock Mass

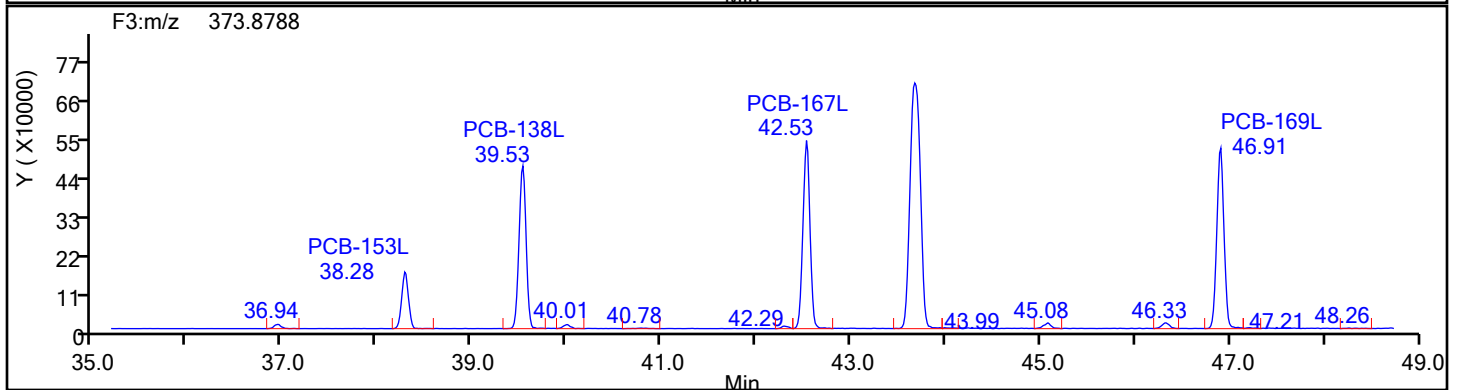
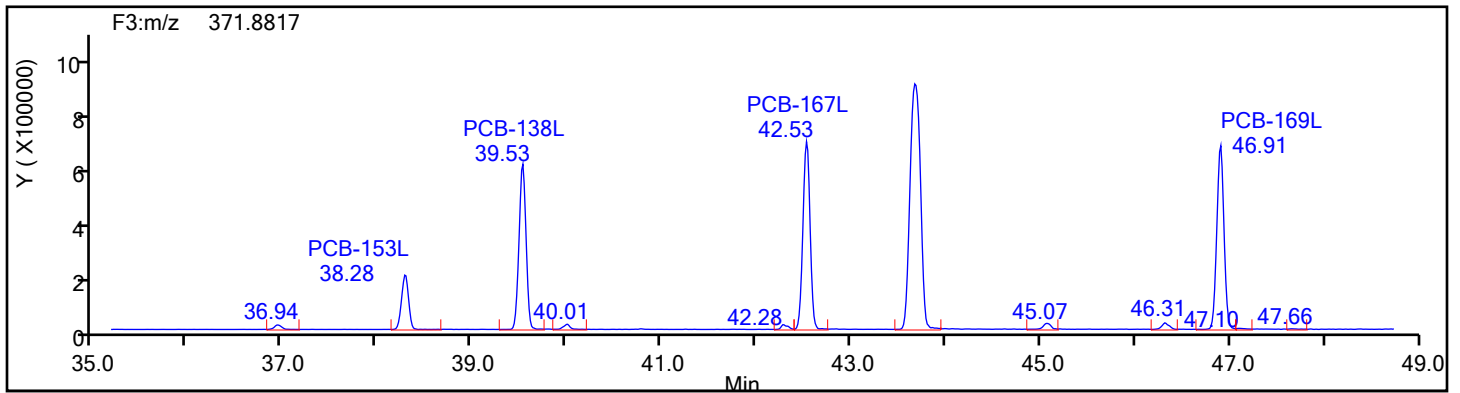


Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

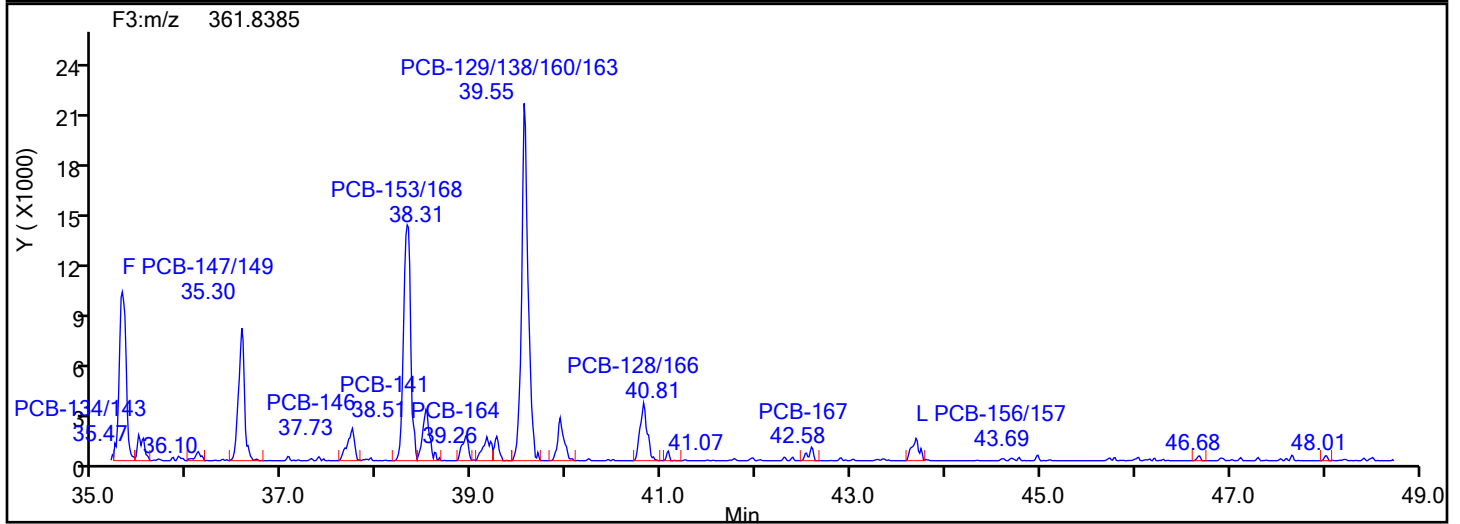
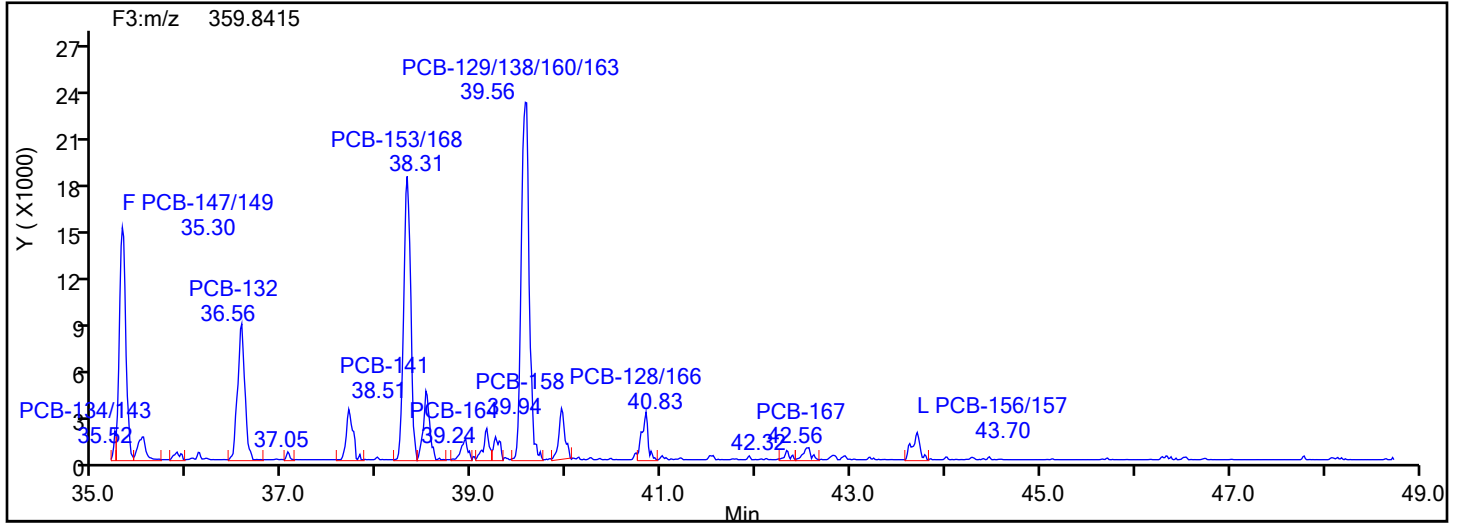


HxPCB F3 Standards

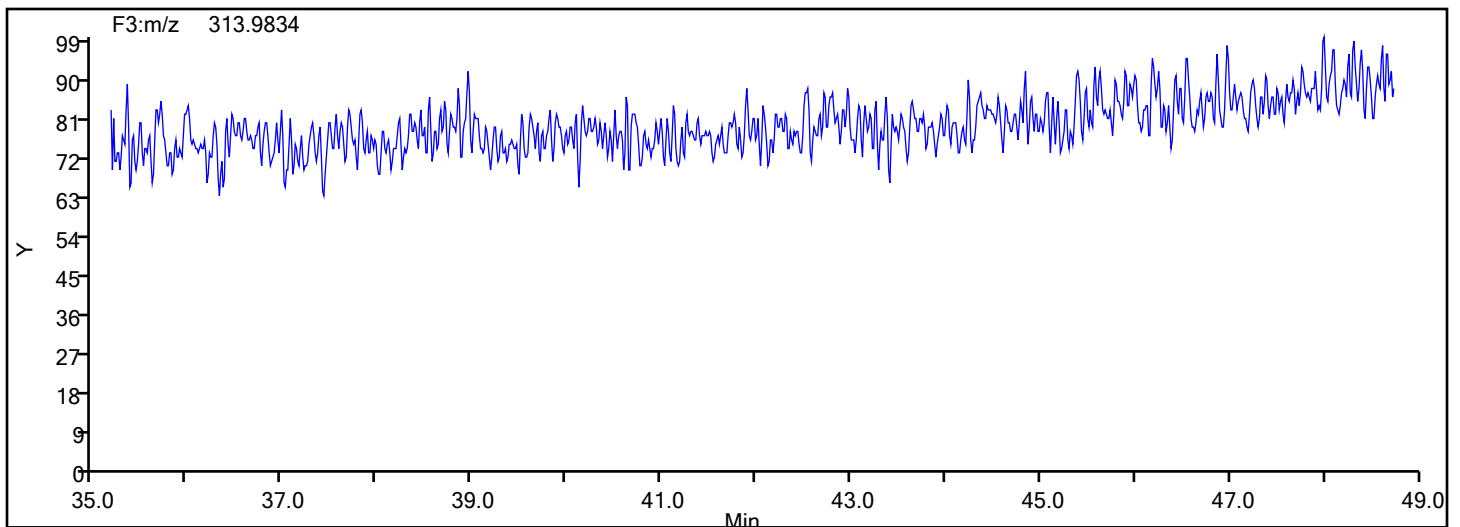


Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d

Injection Date: 12-Jun-2024 05:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 6 COMBINED

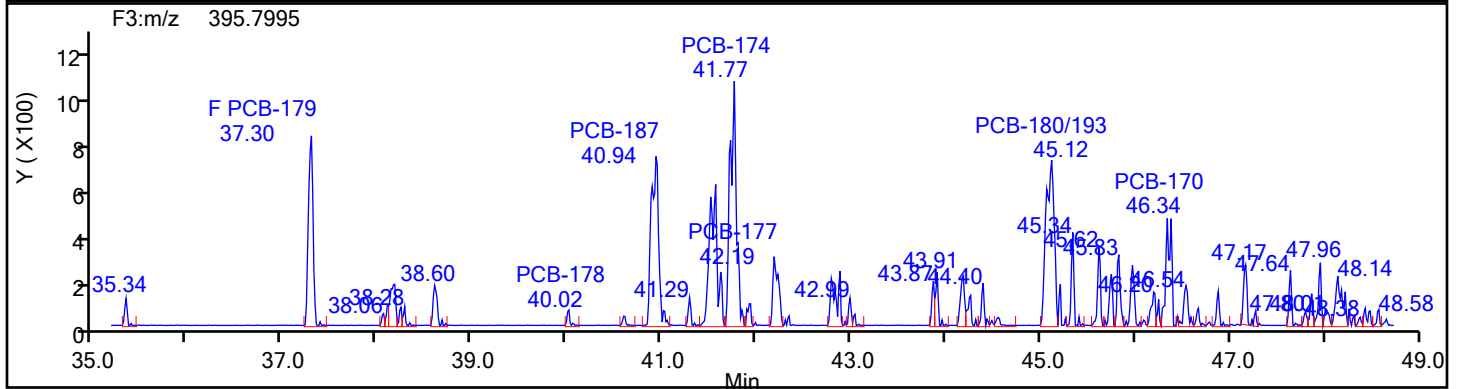
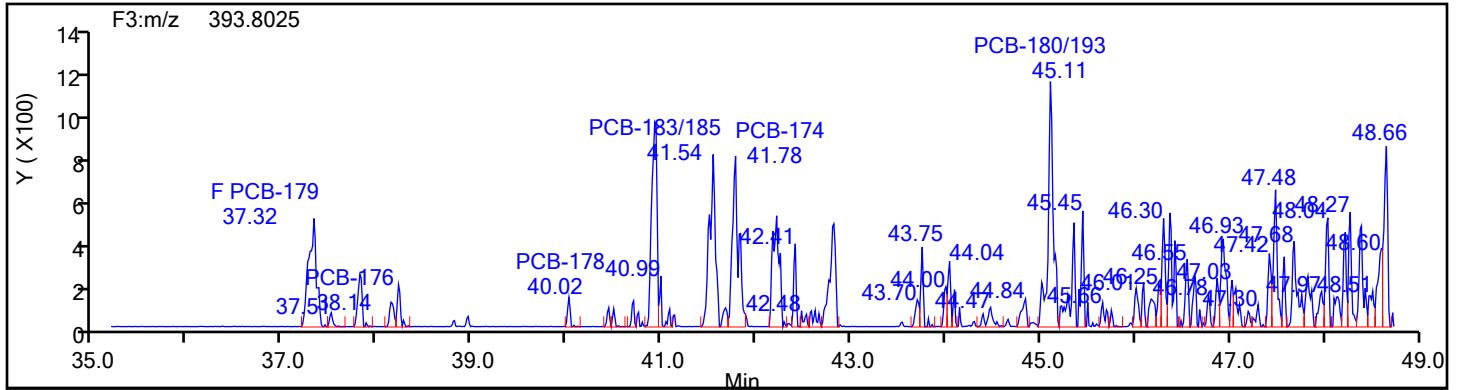
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Sample Line#: 11

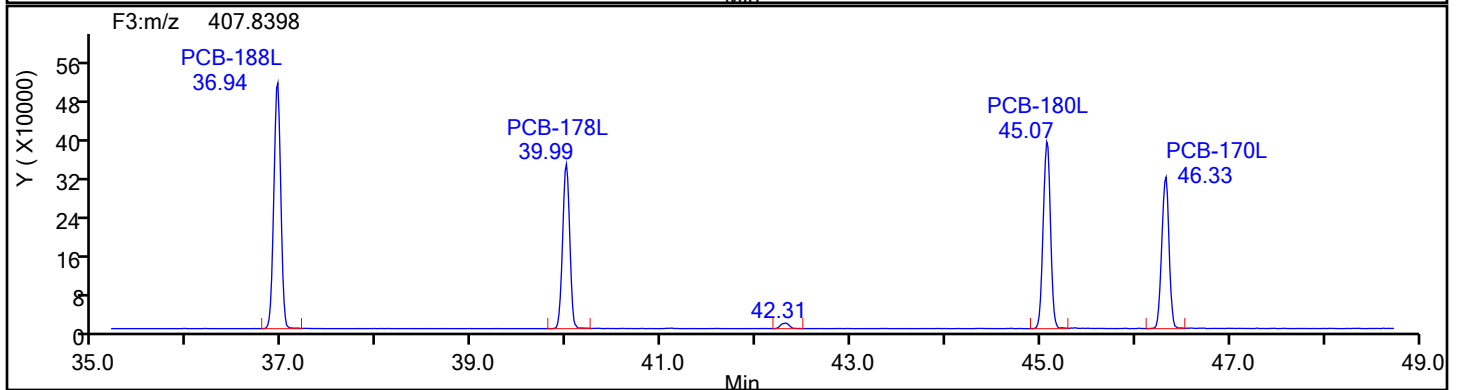
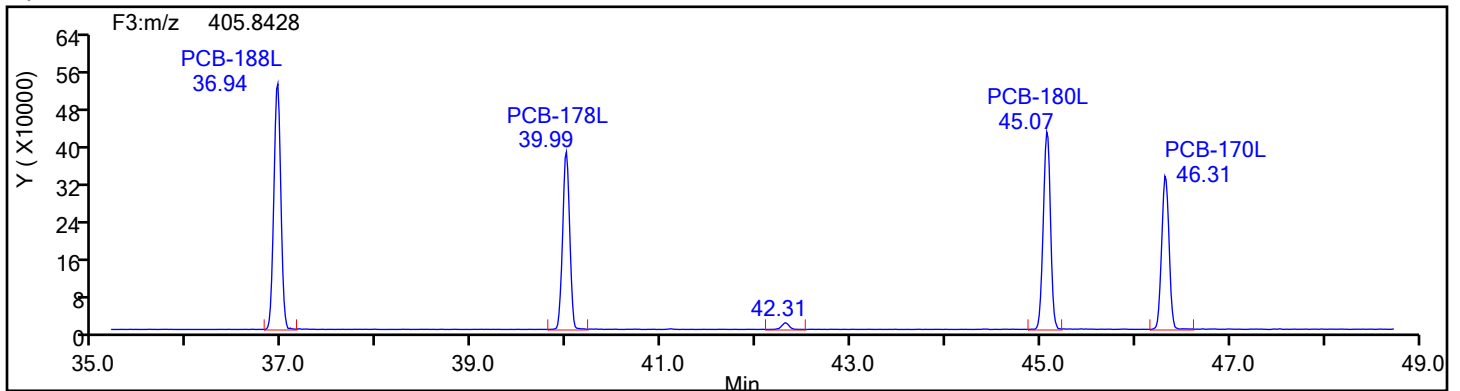
Column Type: SPB-Octyl

Column Dia: 0.25 mm

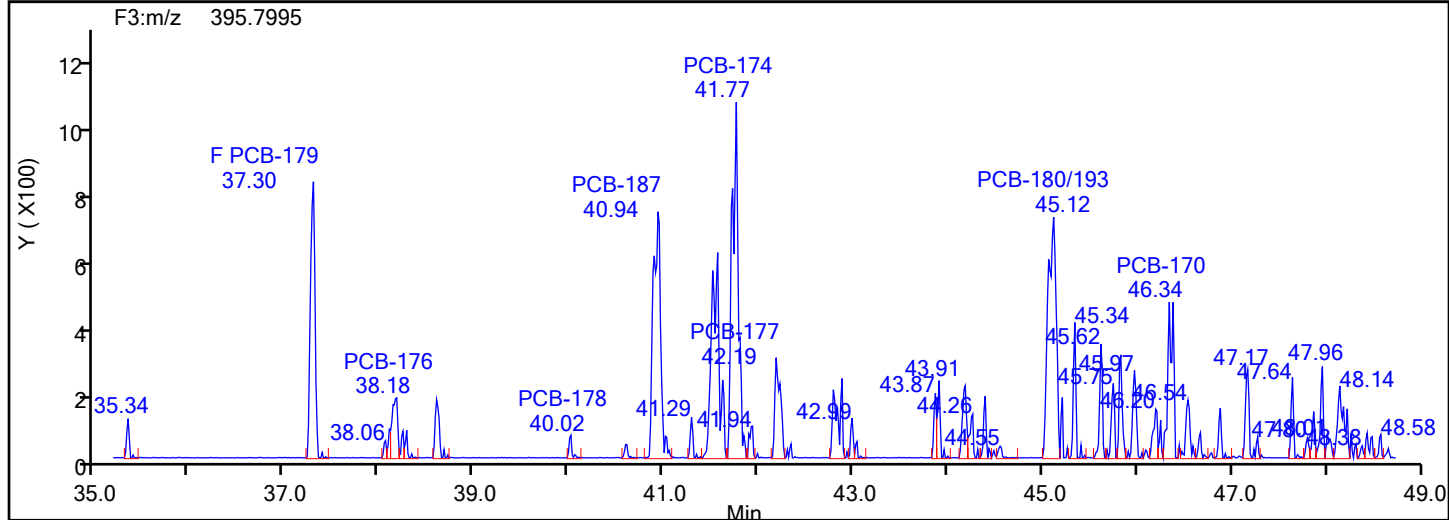
HpPCB F3



HpPCB F3 Standards



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d		
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Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23-NO.3 BOILER-RUN 6 COMBINED		
Worklist#:	87536	Sample Line#:	11
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
HpPCB F3			



Eurofins Knoxville

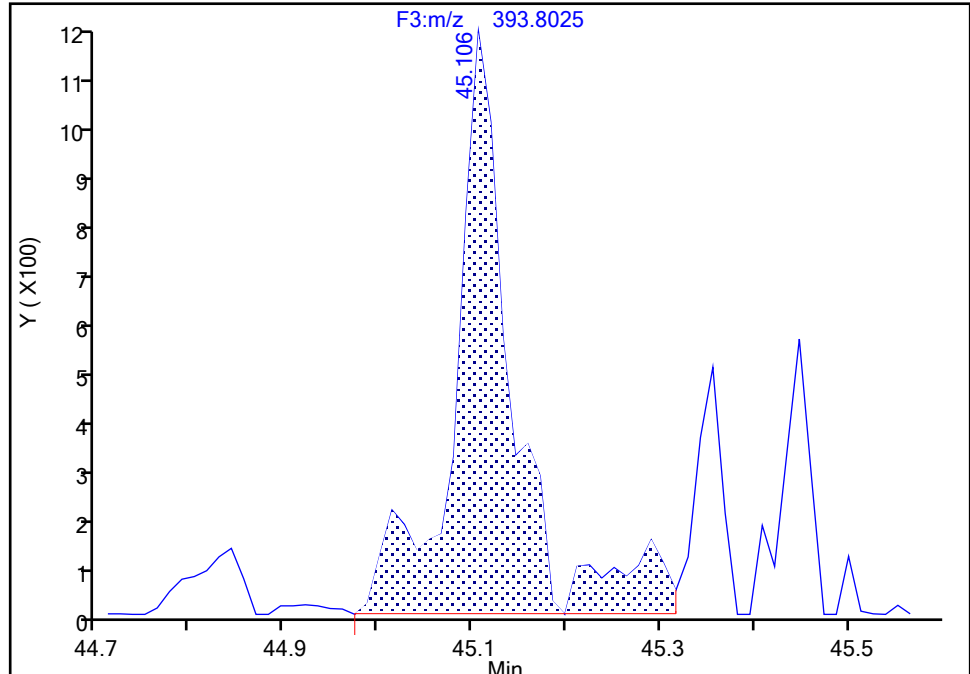
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Lims ID: 140-36689-A-6-C Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-180/193, CAS: STL01824

Signal: 1

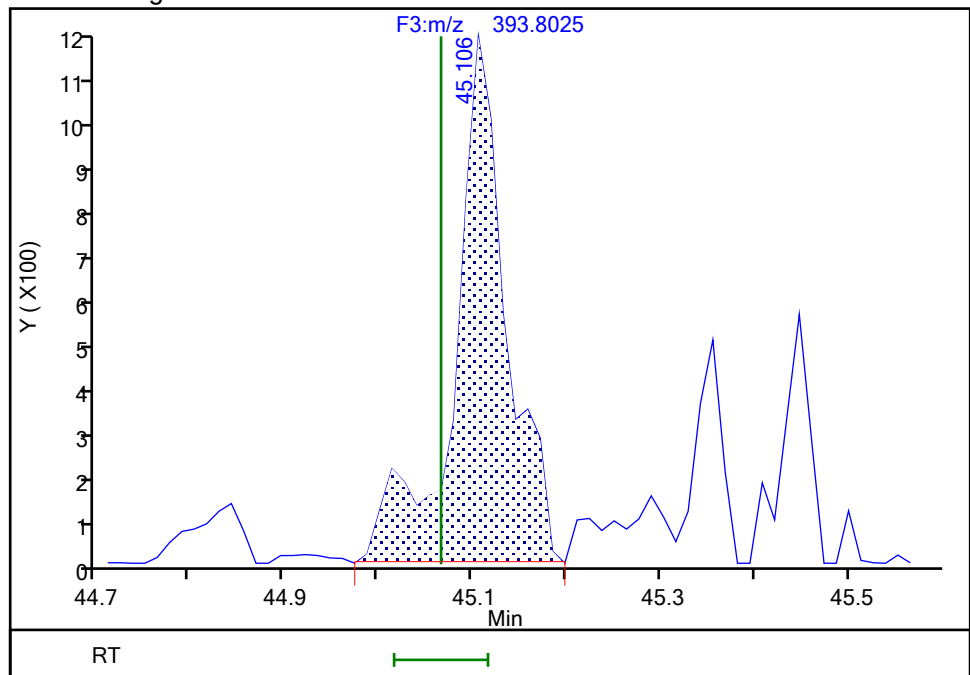
RT: 45.11
Area: 4857
Amount: 0.173120
Amount Units: pg/ul

Processing Integration Results



RT: 45.11
Area: 4244
Amount: 0.161231
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 15:26:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

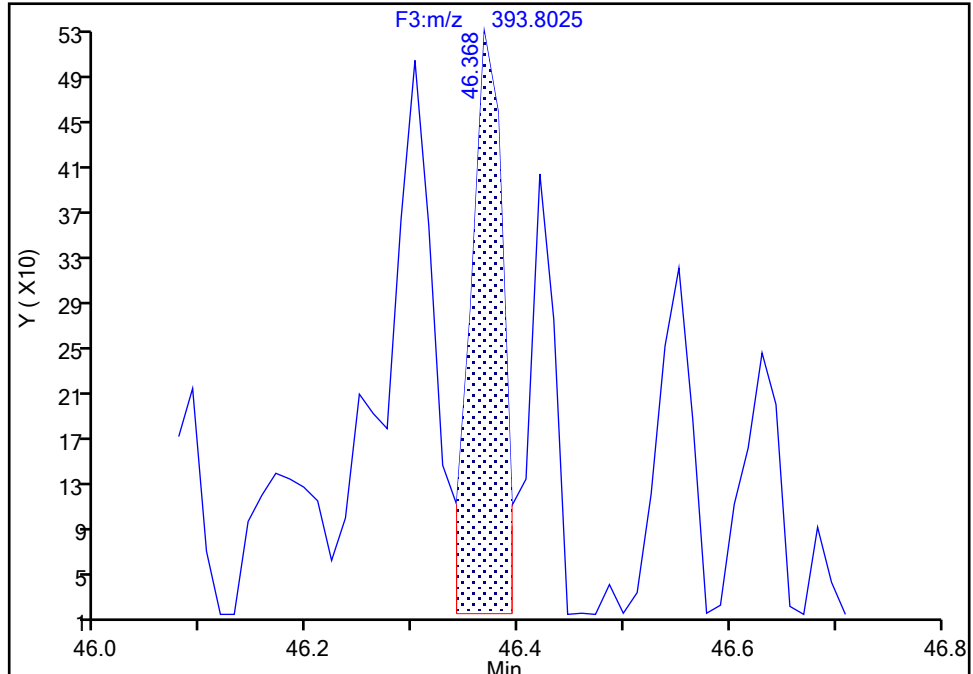
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Injection Date: 12-Jun-2024 05:36:00 Instrument ID: D2D
Lims ID: 140-36689-A-6-C Lab Sample ID: 140-36689-6
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-170, CAS: 35065-30-6

Signal: 1

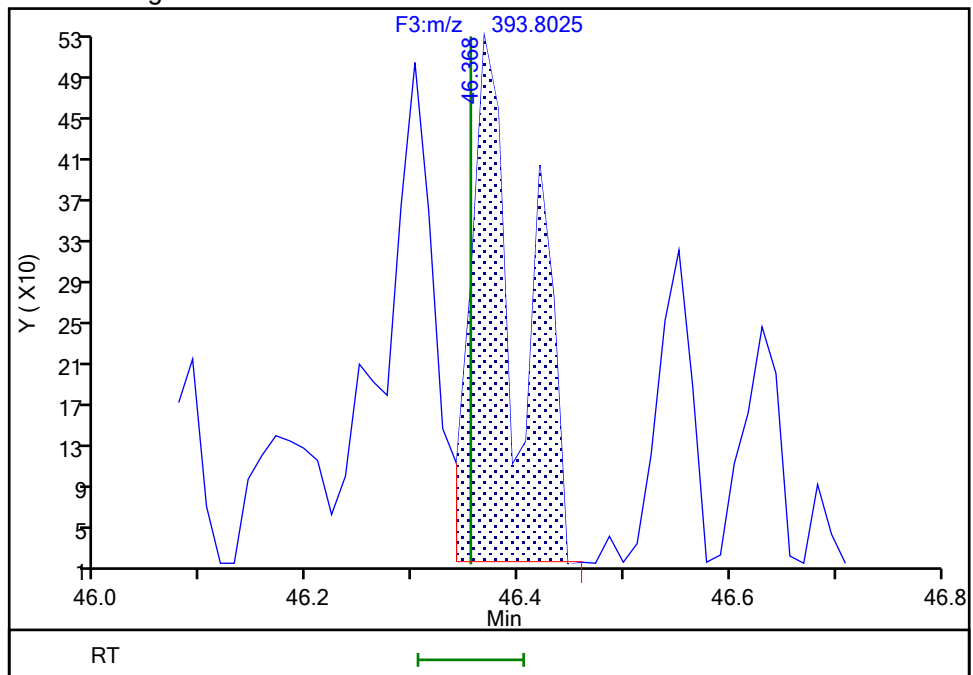
RT: 46.37
Area: 1029
Amount: 0.066567
Amount Units: pg/ul

Processing Integration Results



RT: 46.37
Area: 1659
Amount: 0.081729
Amount Units: pg/ul

Manual Integration Results



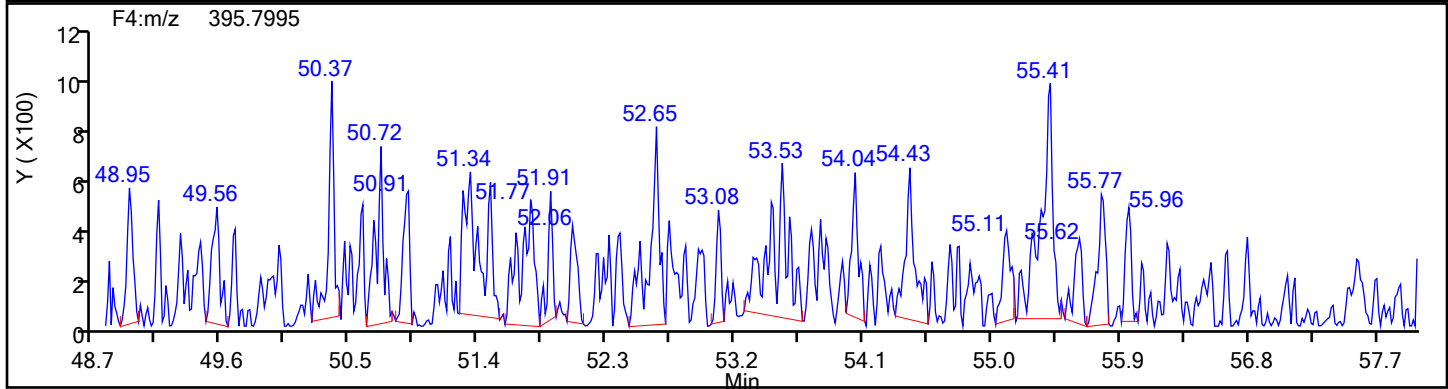
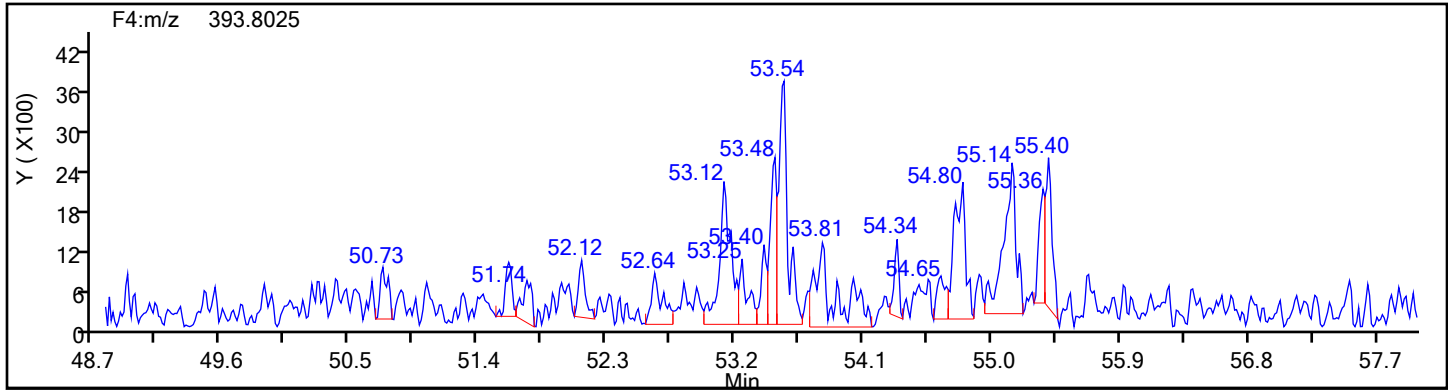
Reviewer: P0IK, 12-Jun-2024 15:27:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

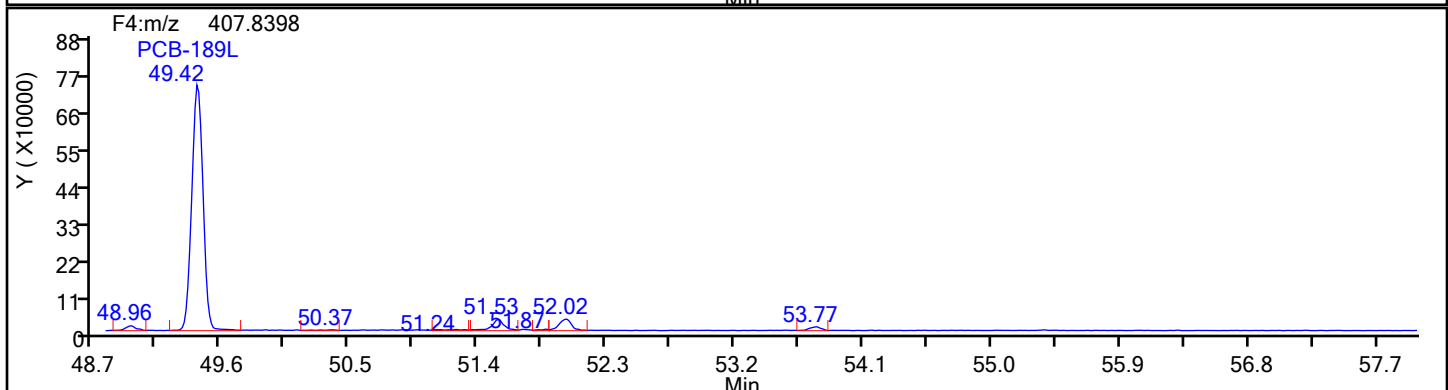
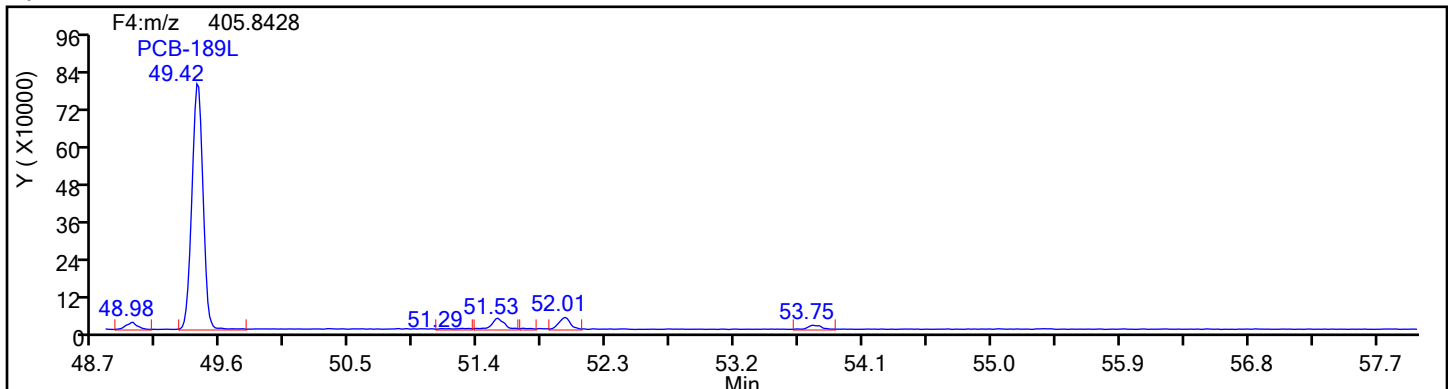
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

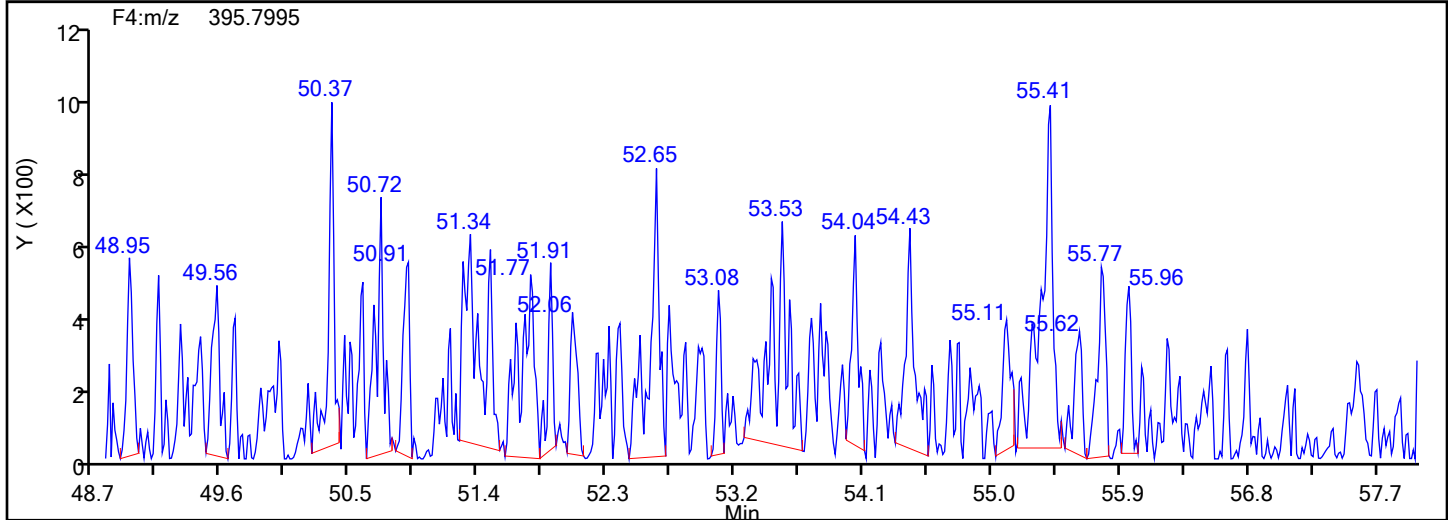
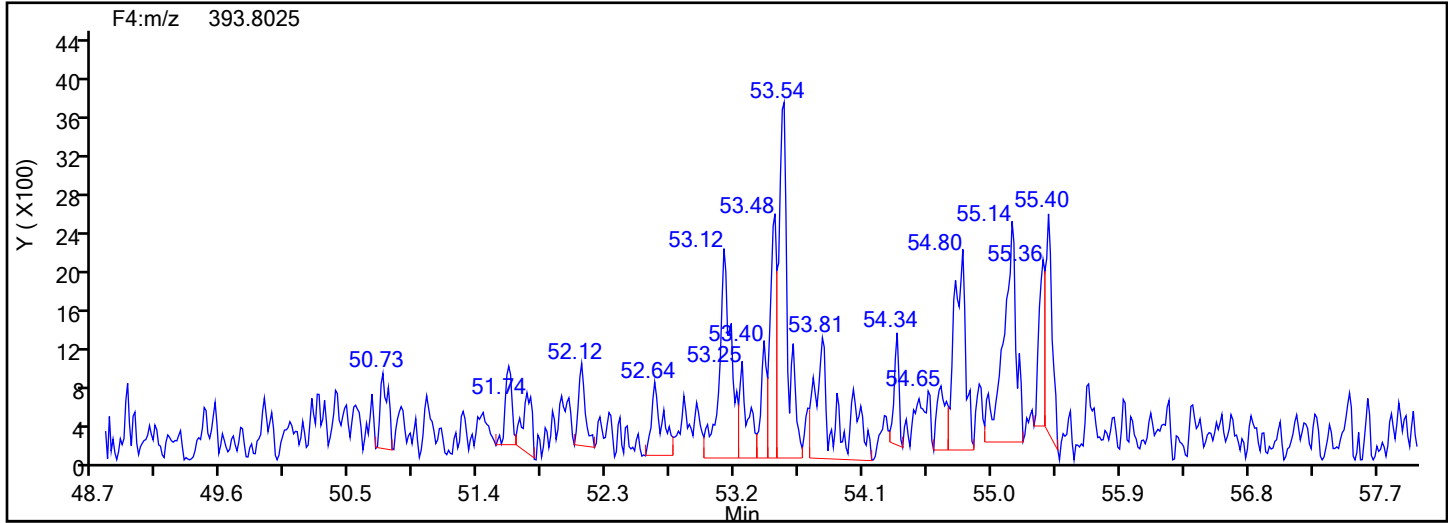


HpPCB F4 Standards

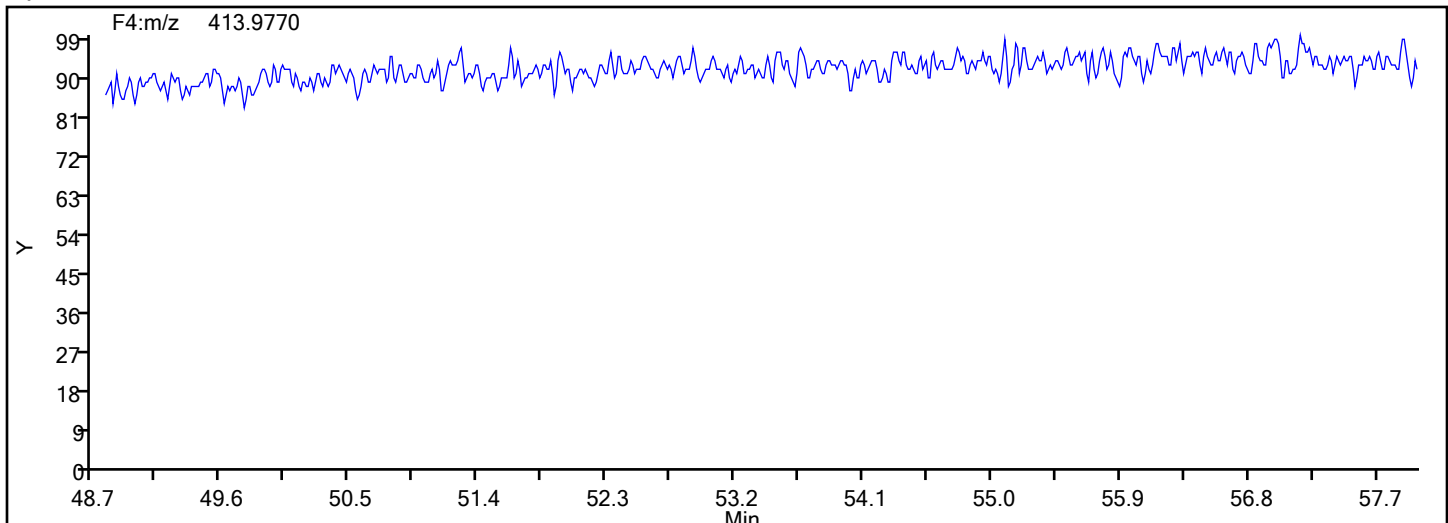


Eurofins Knoxville

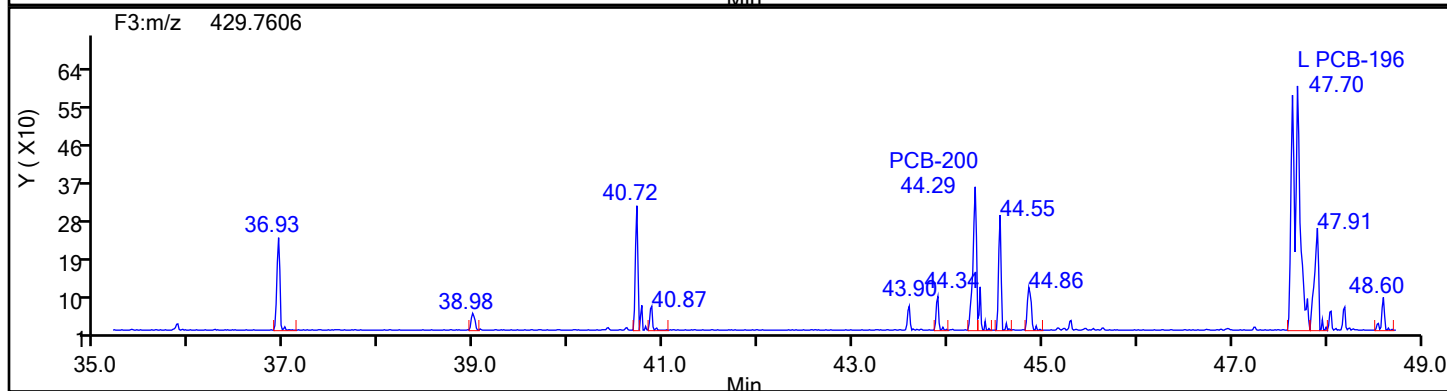
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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4



HpPCB F4 Lock Mass



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d		
Injection Date:	12-Jun-2024 05:36:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23-NO.3 BOILER-RUN 6 COMBINED		
Worklist#:	87536	Sample Line#:	11
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
OcPCB F3			



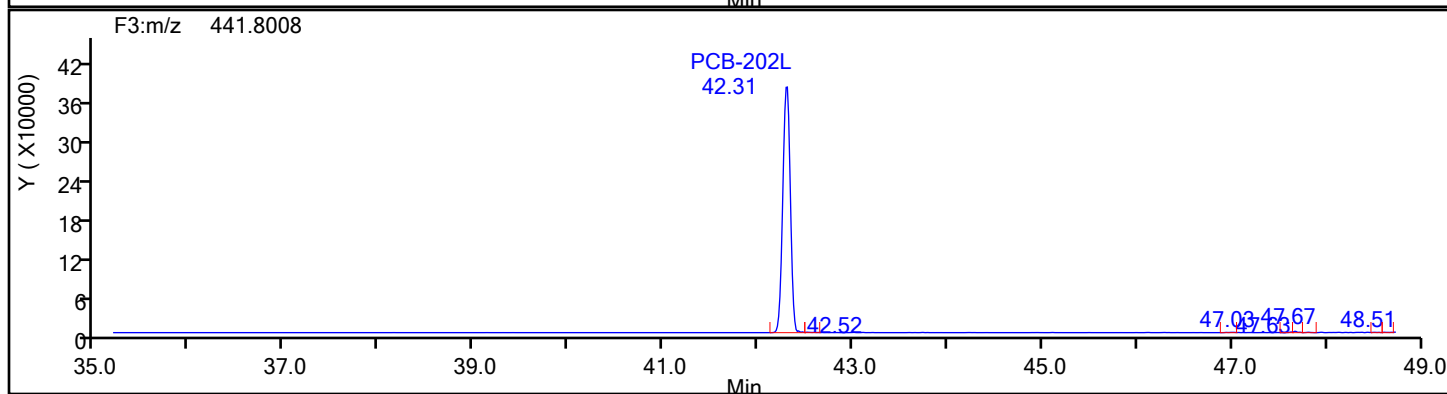
F3:m/z 439.8038

Y (X10000)

PCB-202L
42.29

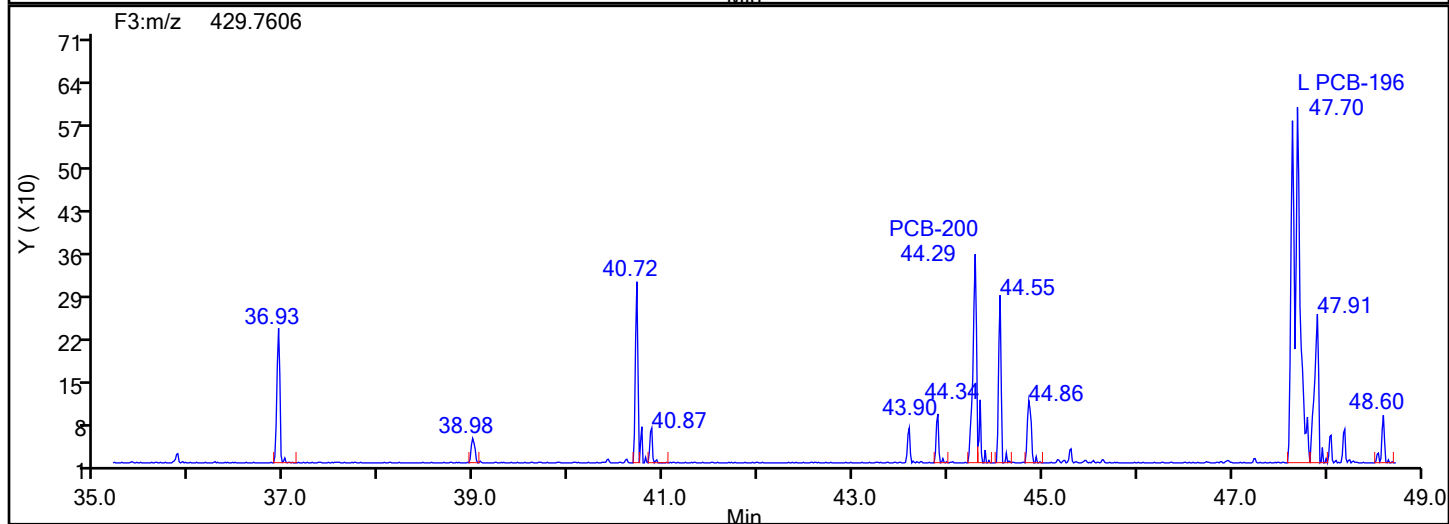
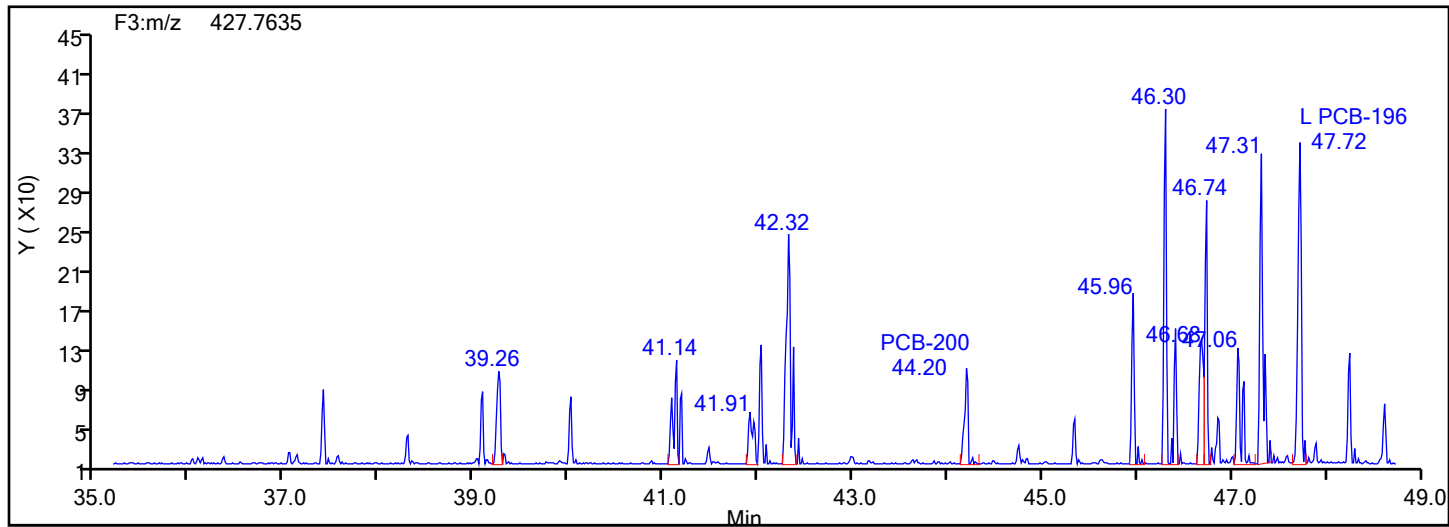
47.68 48.68

Min

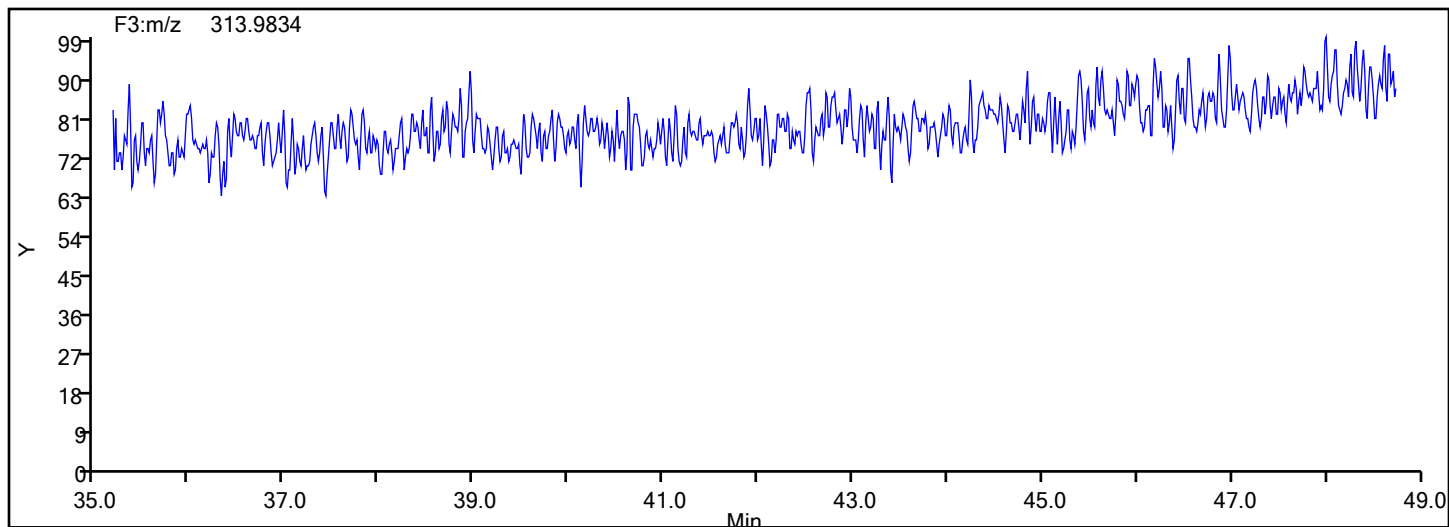


Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

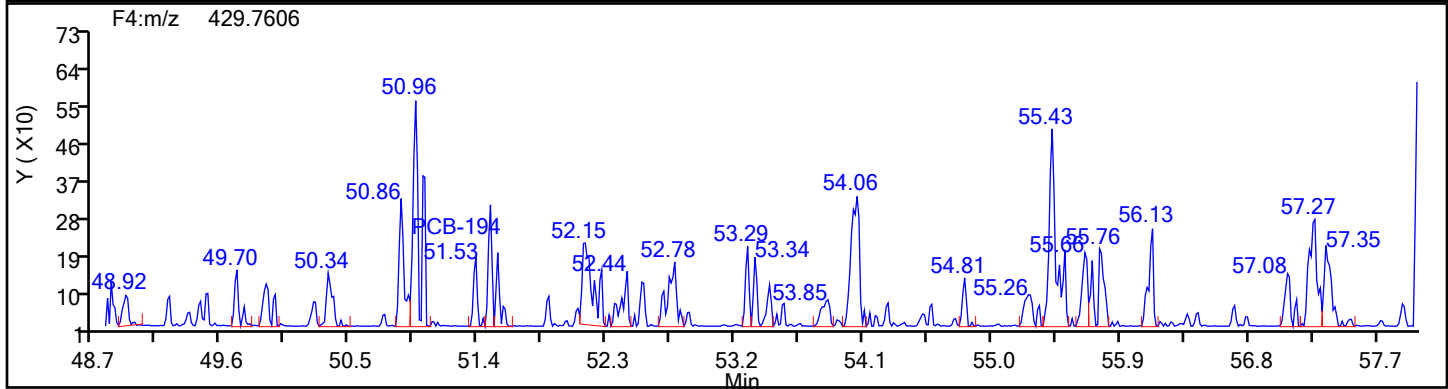
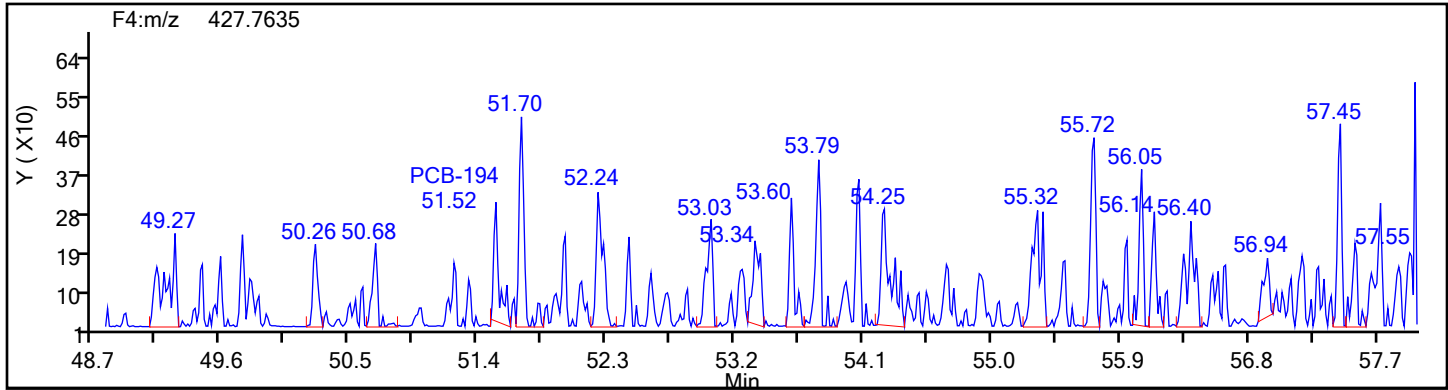


OcPCB F3 Lock Mass

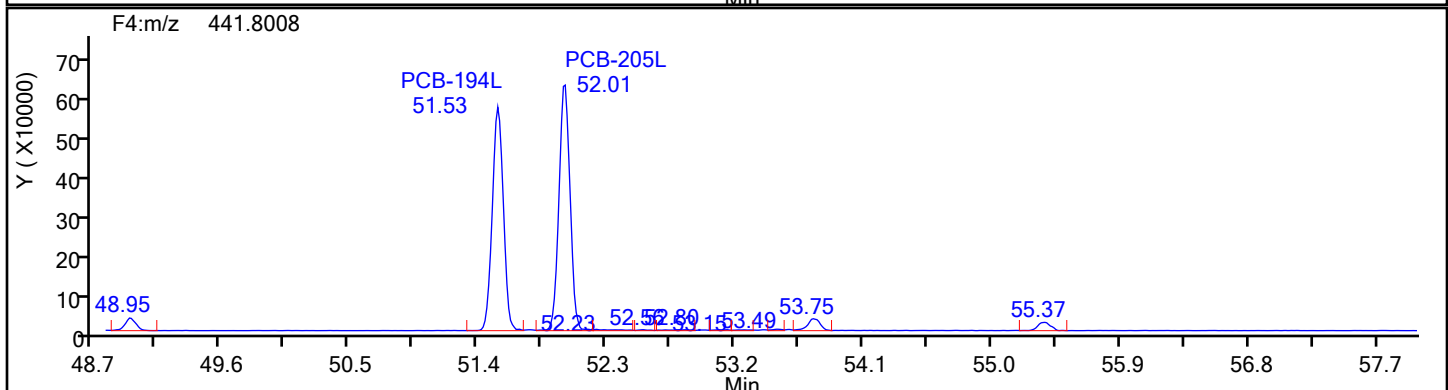
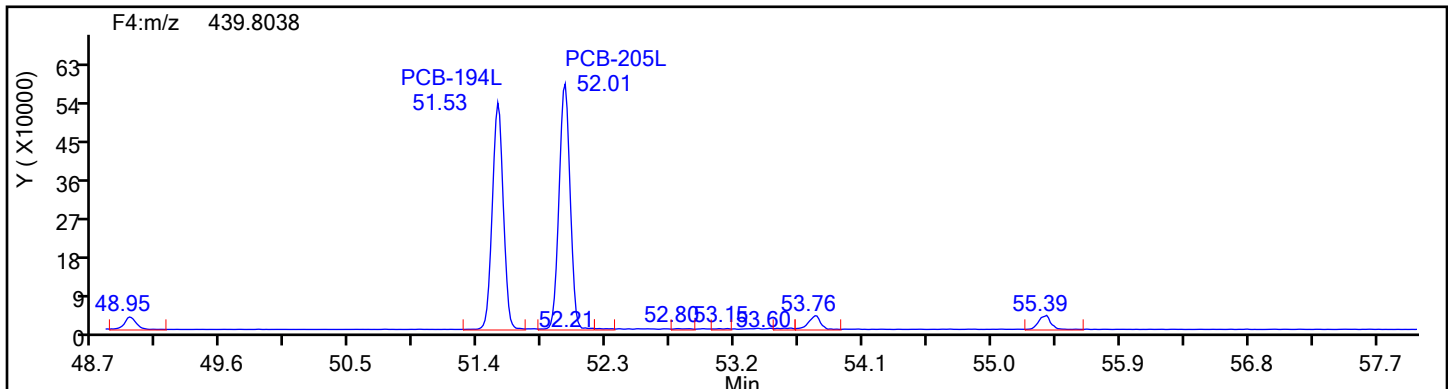


Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

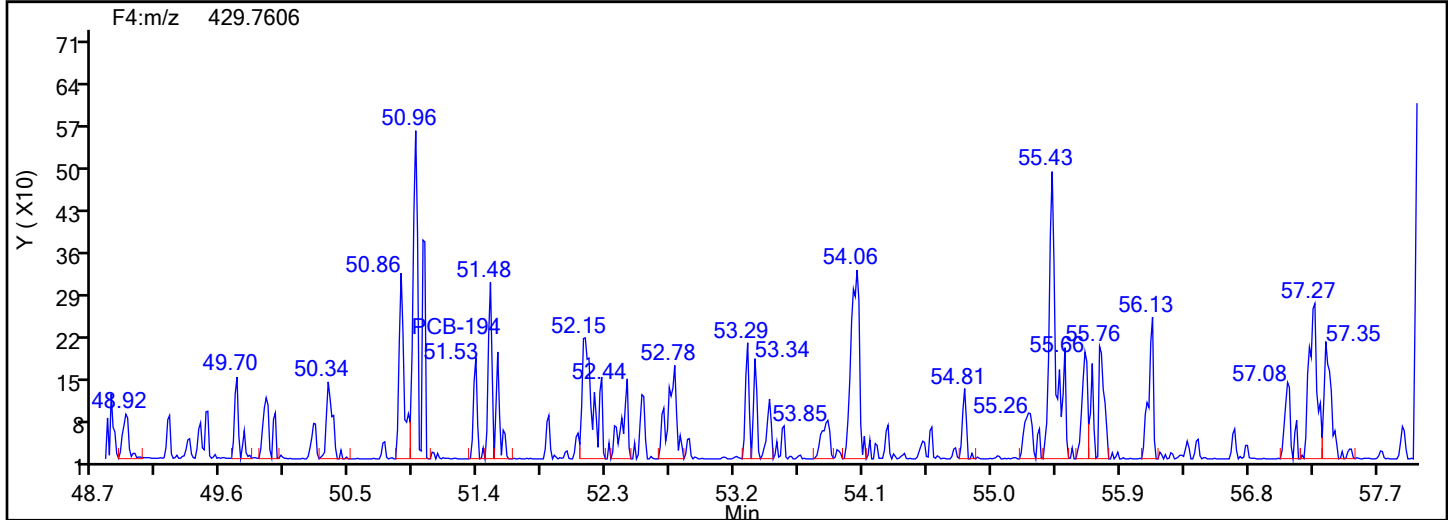
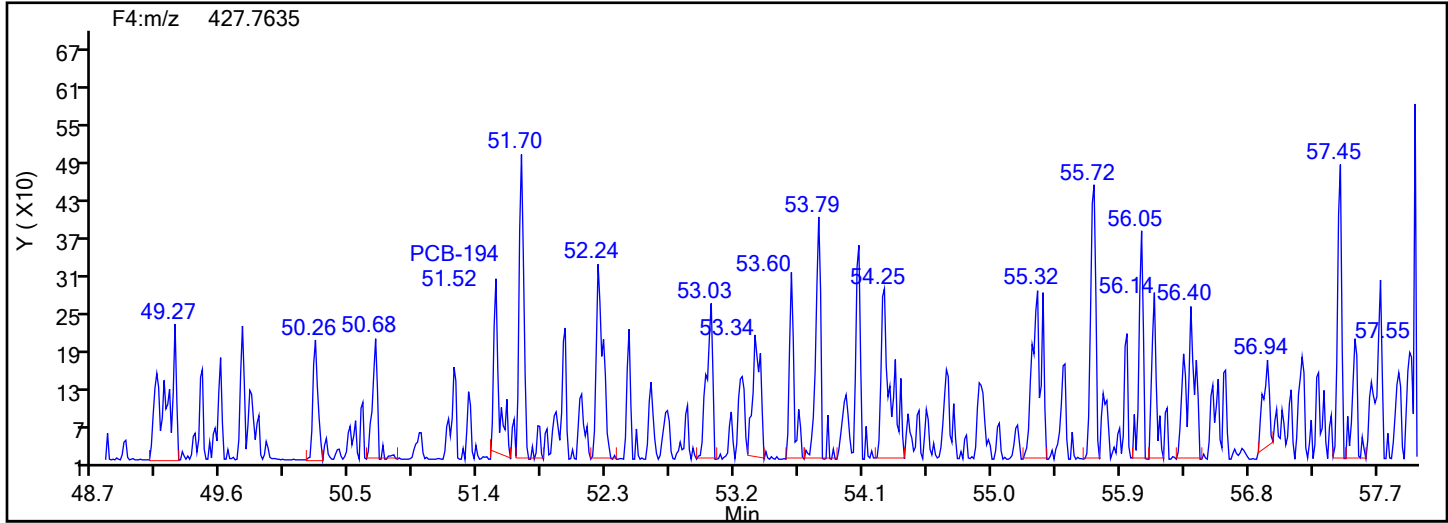


OcPCB F4 Standards

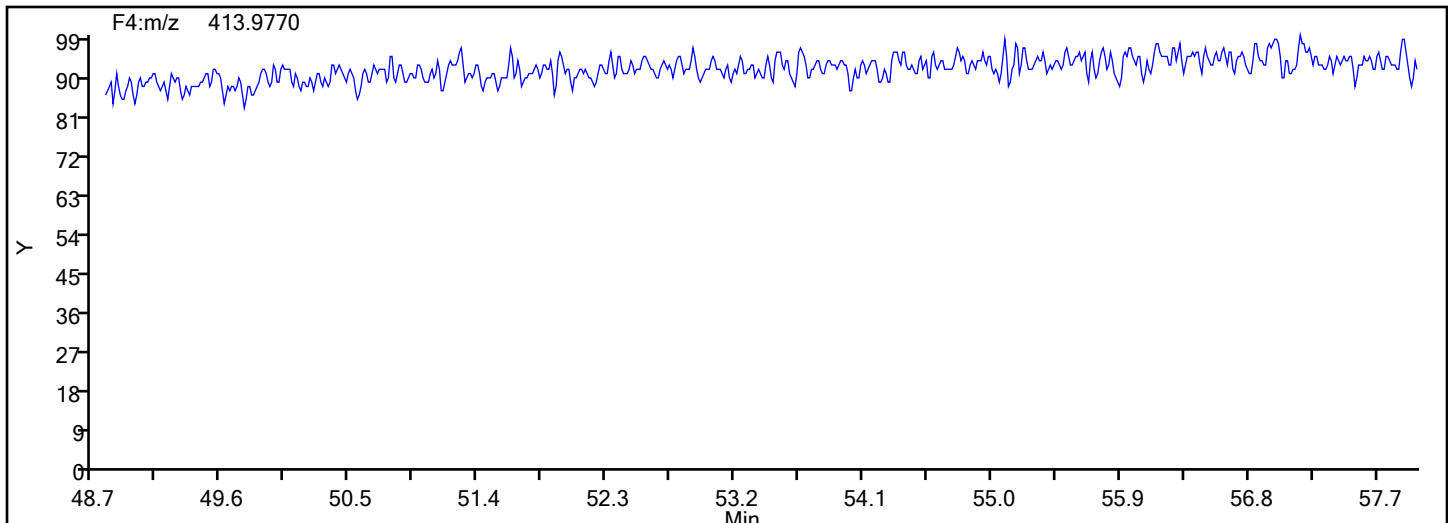


Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

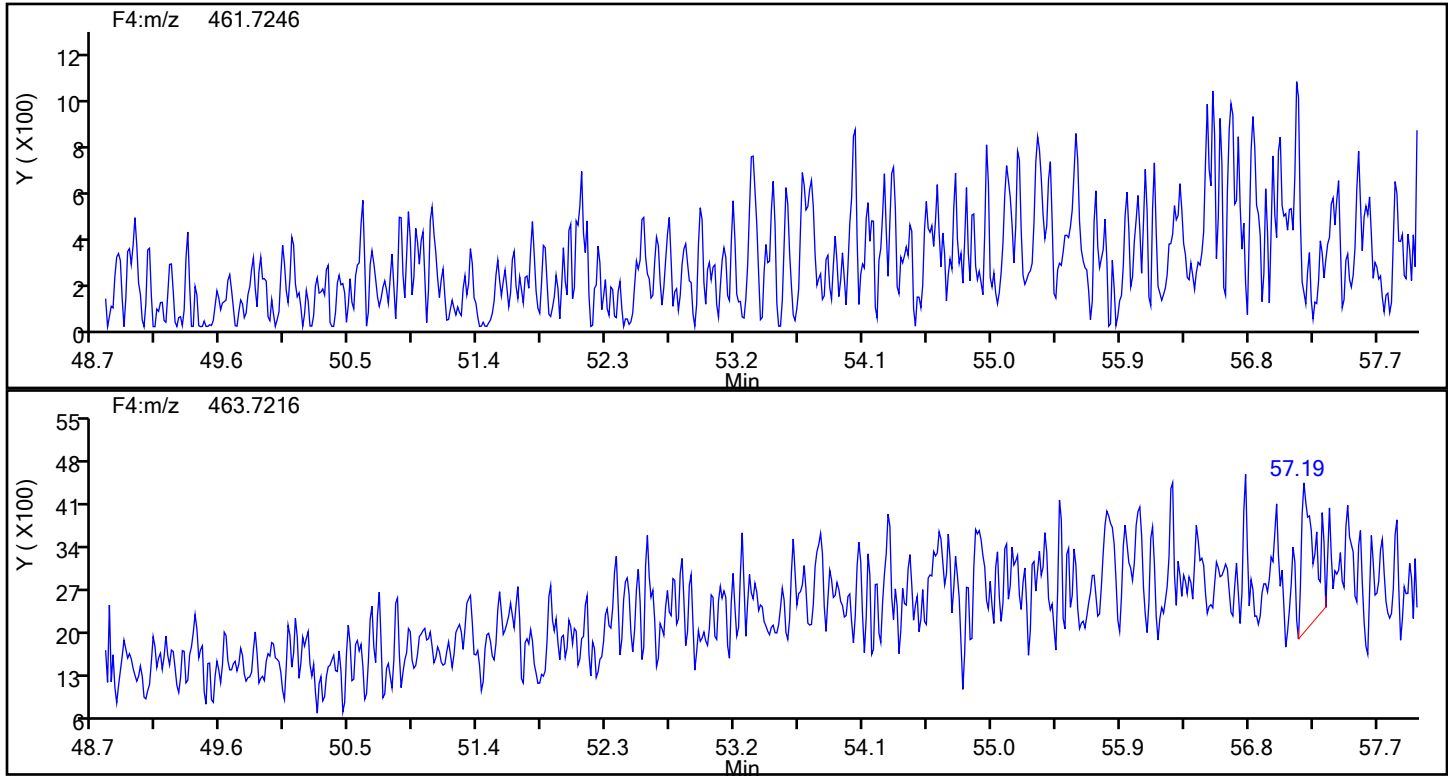


OcPCB F4 Lock Mass

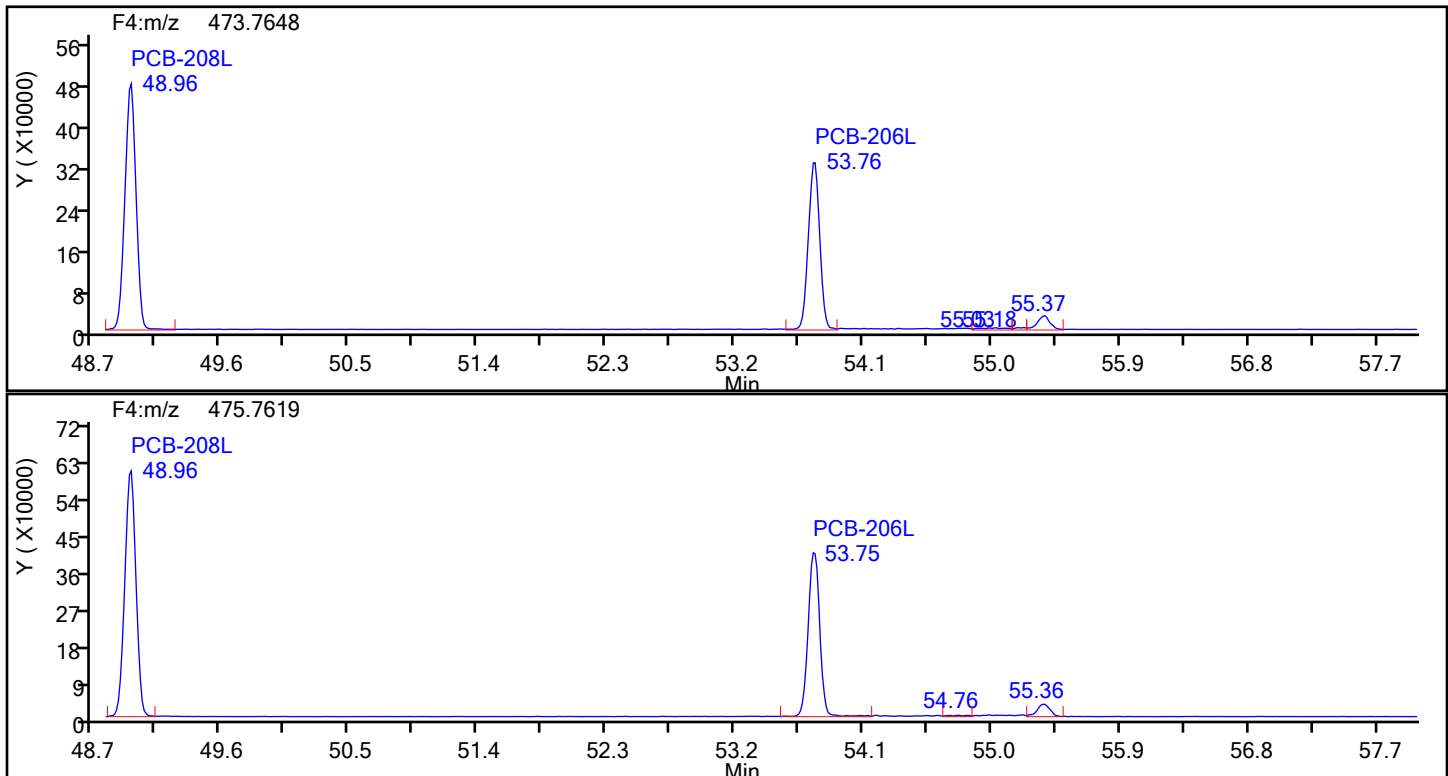


Eurofins Knoxville

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Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

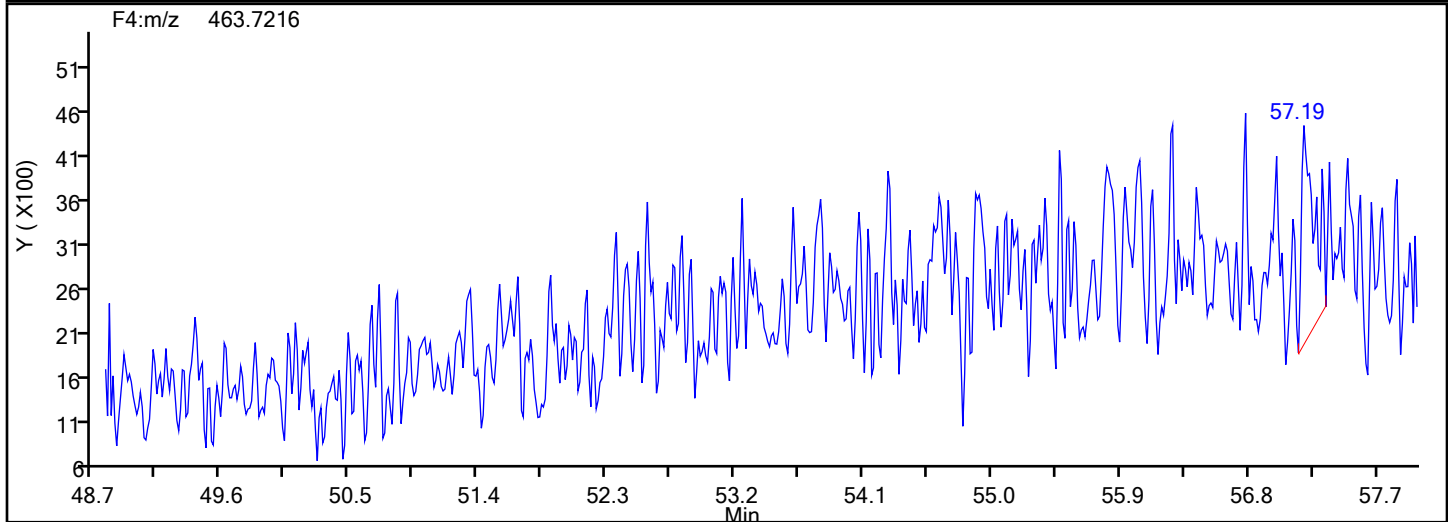
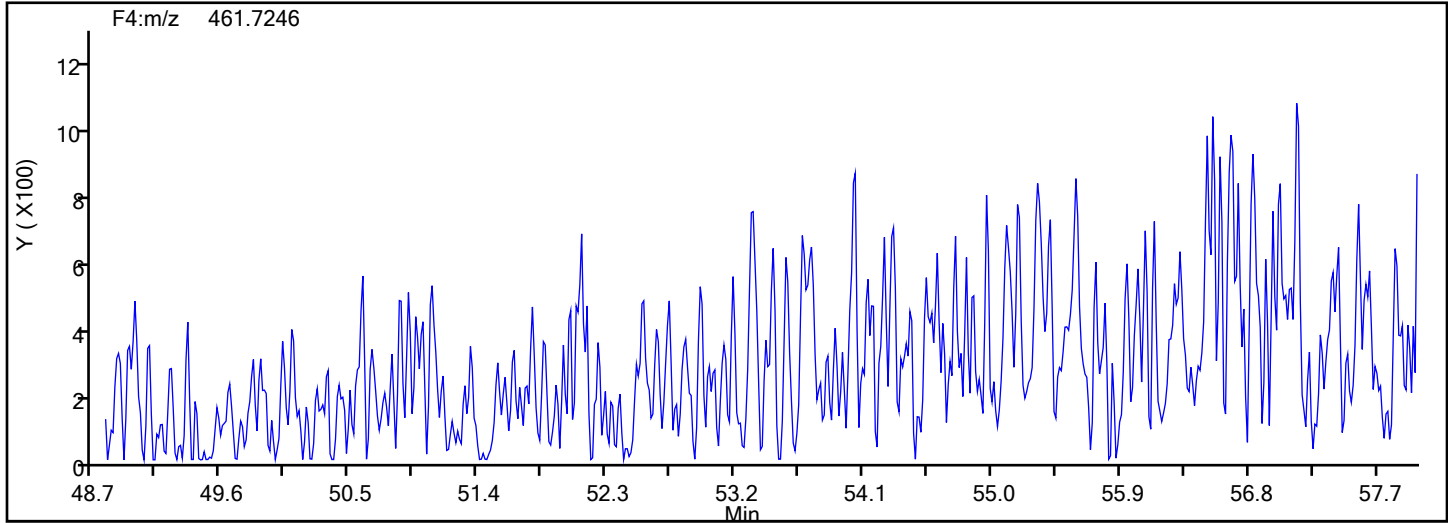


NoPCB F4 Standards

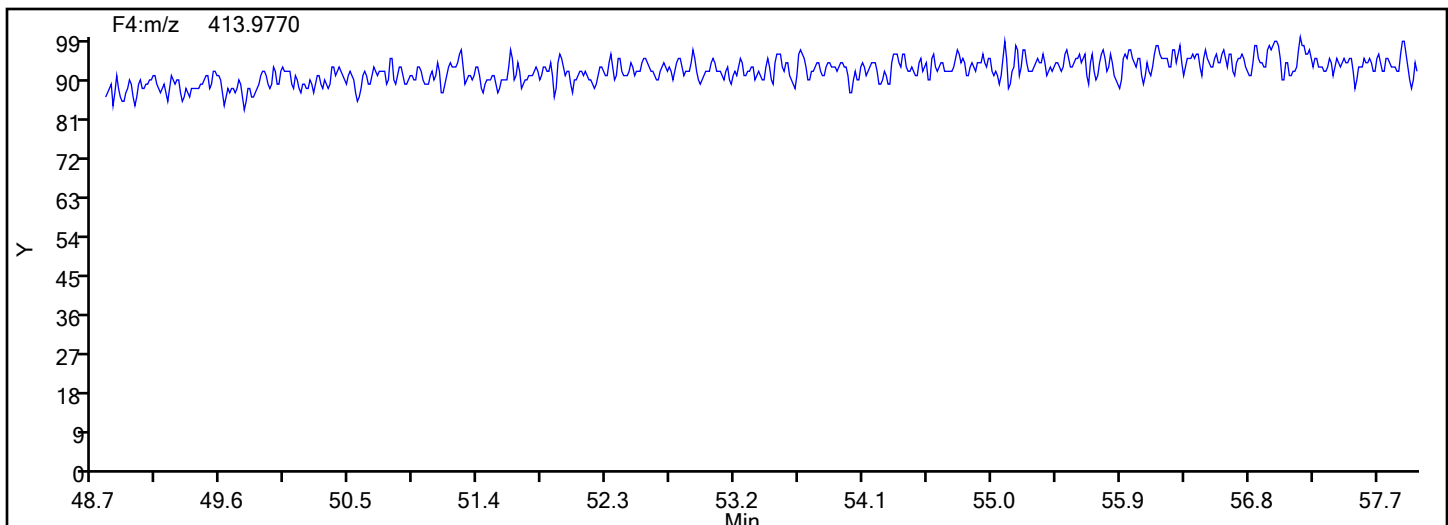


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

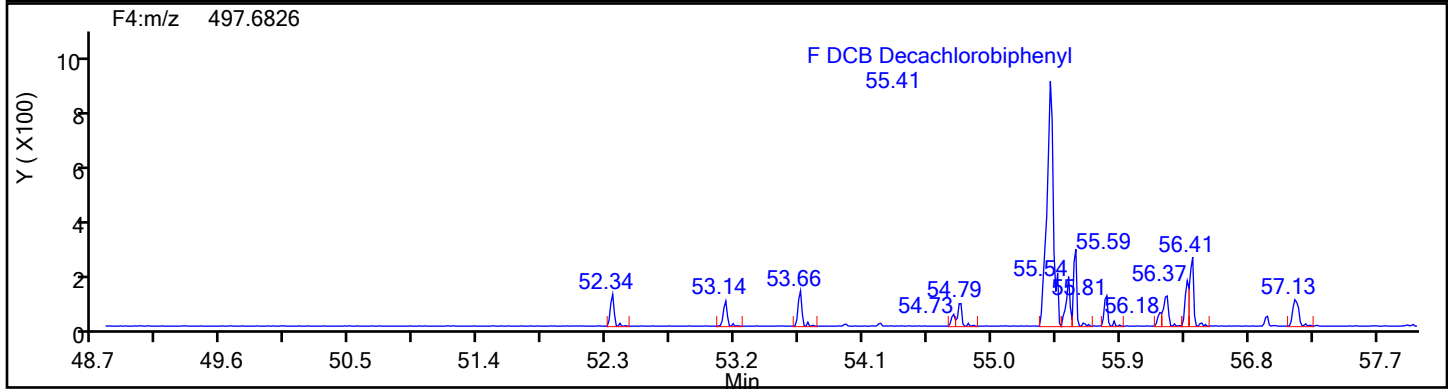
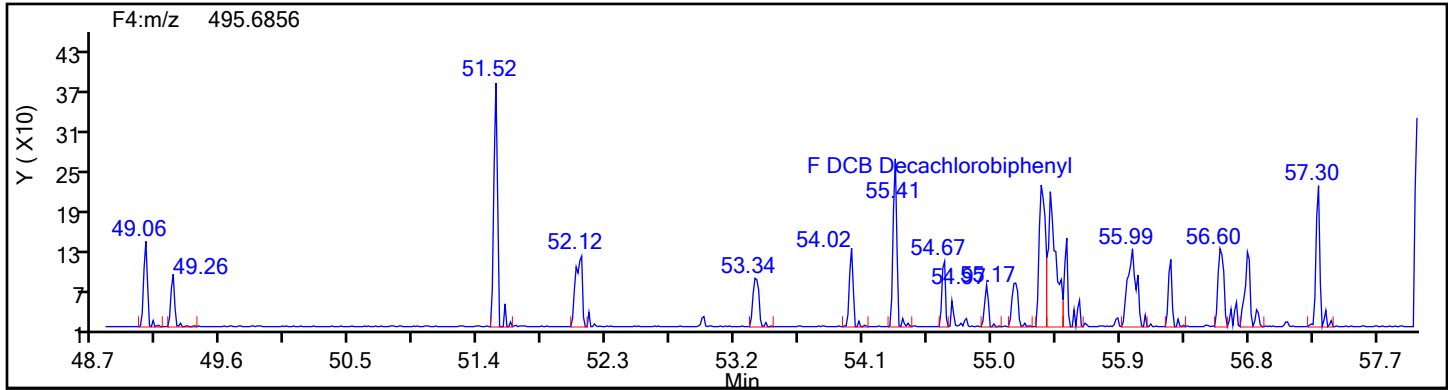


NoPCB F4 Lock Mass

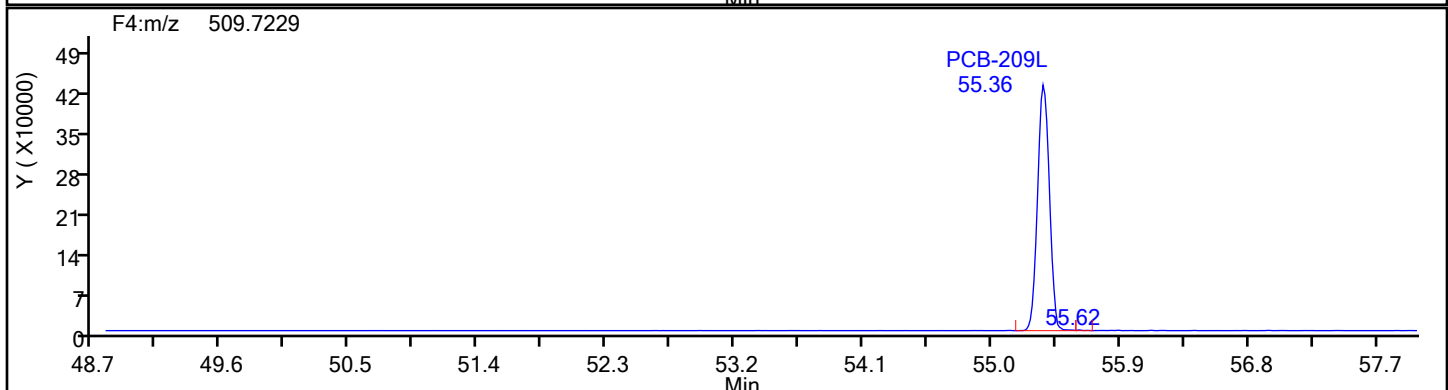
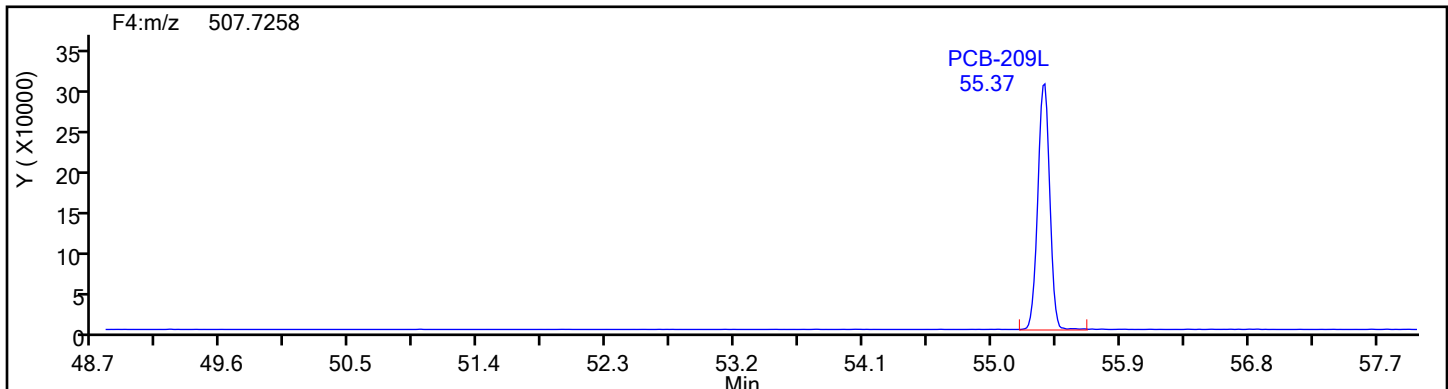


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d
Injection Date: 12-Jun-2024 05:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Worklist#: 87536 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d

Injection Date: 12-Jun-2024 05:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 6 COMBINED

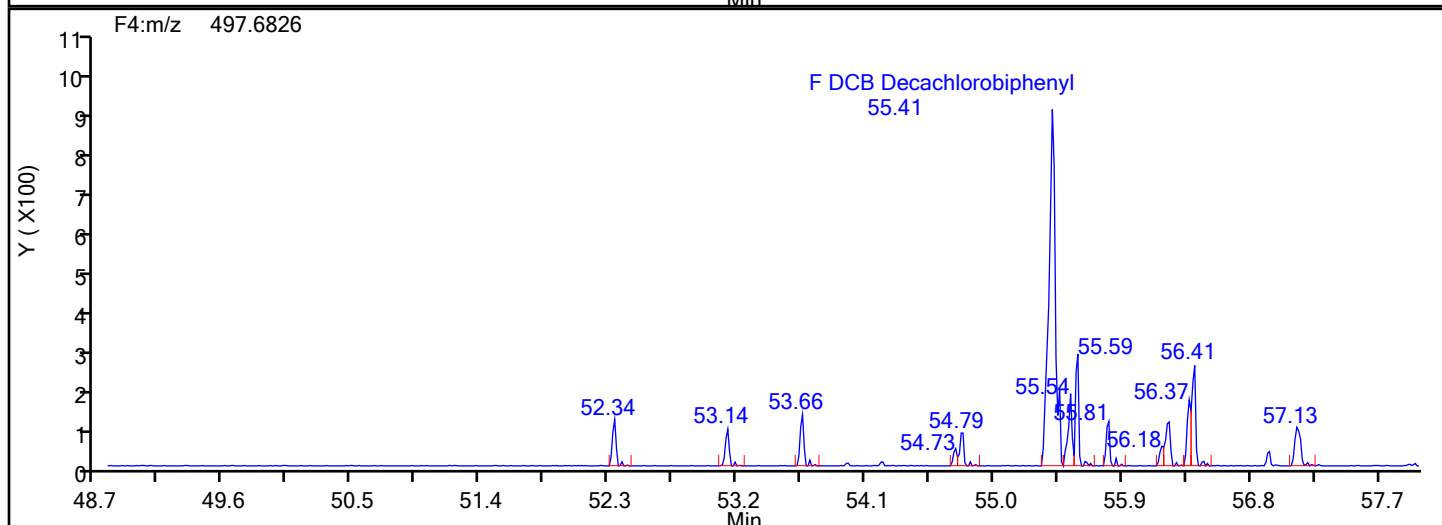
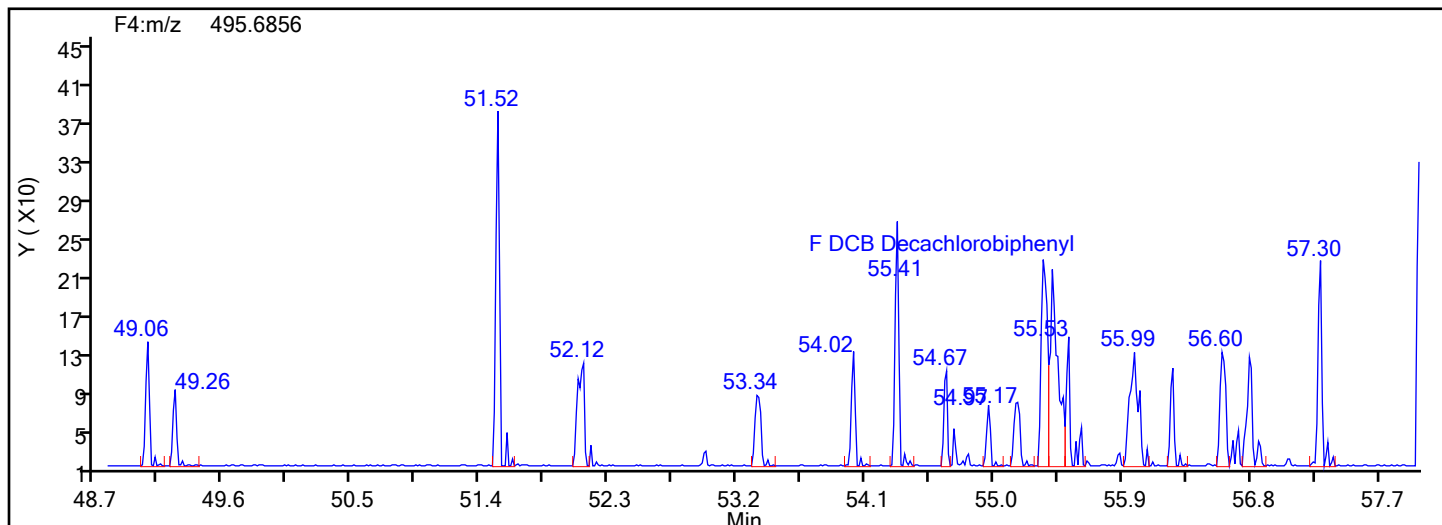
Worklist#: 87536

Sample Line#: 11

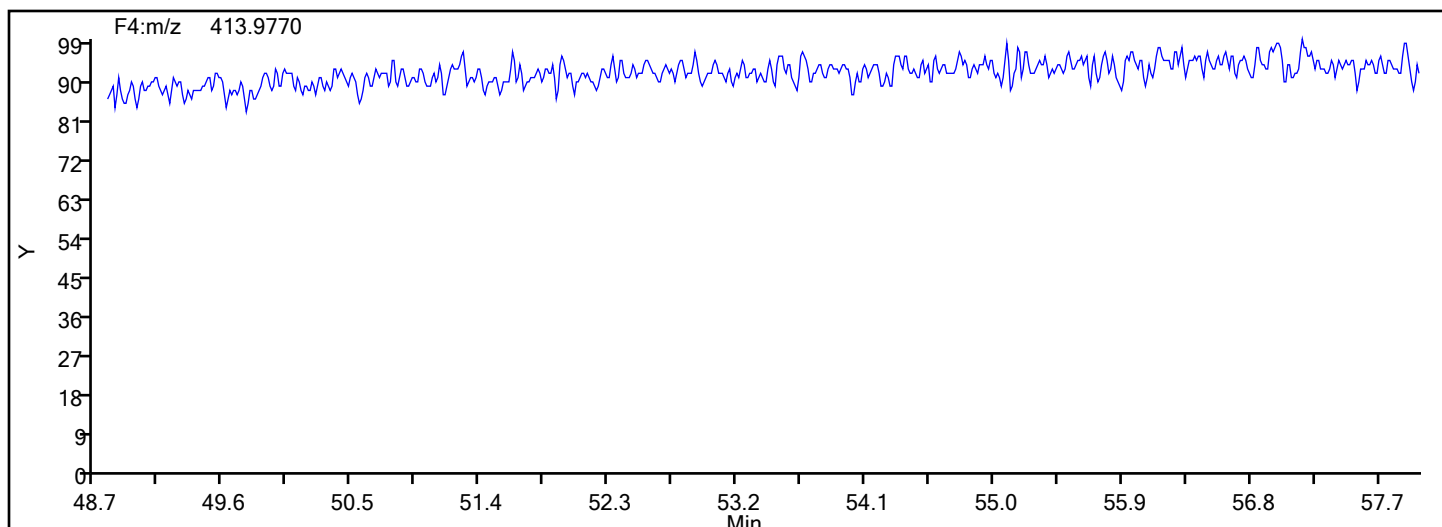
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-6-c.d
Lims ID: 140-36689-A-6-C
Client ID: M23-NO.3 BOILER-RUN 6 COMBINED
Sample Type: Client
Inject. Date: 12-Jun-2024 05:36:00 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033034-011
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 15:32:32 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1611

First Level Reviewer: P0IK

Date: 12-Jun-2024 15:32:32

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	29.6	88.81
PCB-28L	100.0	76.6	76.59
PCB-79L	33.3	34.0	101.99
PCB-95L	33.3	35.3	105.98
PCB-111L	100.0	83.5	83.55
PCB-153L	33.3	32.0	95.99
PCB-178L	100.0	84.0	83.96

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 7 COMBINED</u>	Lab Sample ID: <u>140-36689-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-7-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/10/2024 13:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/12/2024 06:37</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87536</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.271	J S	0.600	0.132	0.0219
37680-65-2	PCB-18	ND	C	0.600	0.285	0.00418
7012-37-5	PCB-28	0.315	J q C20 B	0.600	0.252	0.0105
41464-39-5	PCB-44	2.57	C	0.900	0.390	0.0116
35693-99-3	PCB-52	0.235	J	0.300	0.132	0.0123
32598-10-0	PCB-66	0.0852	J	0.300	0.120	0.00896
32598-13-3	PCB-77	0.0309	J q	0.300	0.126	0.0102
70362-50-4	PCB-81	ND		0.300	0.0960	0.0107
37680-73-2	PCB-101	0.0917	J C90	0.900	0.390	0.00337
32598-14-4	PCB-105	ND		0.300	0.102	0.0166
74472-37-0	PCB-114	ND		0.300	0.165	0.0170
31508-00-6	PCB-118	0.0394	J B	0.300	0.183	0.0151
65510-44-3	PCB-123	ND		0.300	0.171	0.0176
57465-28-8	PCB-126	ND		0.300	0.123	0.0182
38380-07-3	PCB-128	0.00655	J q C	0.600	0.204	0.00421
35065-28-2	PCB-138	0.0268	J q C129	1.20	0.510	0.00437
35065-27-1	PCB-153	0.0352	J q C B	0.600	0.249	0.00378
38380-08-4	PCB-156	0.00712	J C	0.600	0.255	0.00463
69782-90-7	PCB-157	0.00712	J C156	0.600	0.255	0.00463
52663-72-6	PCB-167	ND		0.300	0.180	0.00307
32774-16-6	PCB-169	ND		0.300	0.123	0.00300
35065-30-6	PCB-170	0.00859	J q	0.300	0.132	0.000882
35065-29-3	PCB-180	0.0150	J q C	0.600	0.204	0.000692
52663-68-0	PCB-187	ND		0.300	0.126	0.000733
39635-31-9	PCB-189	ND		0.300	0.147	0.0134
52663-78-2	PCB-195	ND		0.300	0.159	0.00672
40186-72-9	PCB-206	ND		0.300	0.171	0.0252
2051-24-3	PCB-209	ND		0.300	0.138	0.00182

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN 7</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-7-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/10/2024 13:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/12/2024 06:37</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87536</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	56		20-145
208263-77-8	PCB-3L	61		20-145
234432-86-1	PCB-4L	64		20-145
208263-67-6	PCB-15L	38	S	20-145
234432-87-2	PCB-19L	68		20-145
208263-79-0	PCB-37L	81		20-145
234432-88-3	PCB-54L	71	S	20-145
105600-23-5	PCB-77L	84		20-145
208461-24-9	PCB-81L	84		20-145
234432-89-4	PCB-104L	95		20-145
208263-62-1	PCB-105L	96		20-145
208263-63-2	PCB-114L	96		20-145
104130-40-7	PCB-118L	95		20-145
208263-64-3	PCB-123L	96		20-145
208263-65-4	PCB-126L	97		20-145
234432-90-7	PCB-155L	98		20-145
208263-68-7	PCB-156L	92	C	20-145
235416-30-5	PCB-157L	92	C156	20-145
208263-69-8	PCB-167L	89		20-145
208263-70-1	PCB-169L	91		20-145
160901-80-4	PCB-170L	96		20-145
234432-91-8	PCB-188L	94		20-145
208263-73-4	PCB-189L	97		20-145
105600-26-8	PCB-202L	94		20-145
234446-64-1	PCB-205L	93		20-145
208263-75-6	PCB-206L	99		20-145
234432-92-9	PCB-208L	103		20-145
105600-27-9	PCB-209L	109		20-145

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Client Sample ID: M23-NO.3 BOILER-RUN 7 Lab Sample ID: 140-36689-7
COMBINED
Matrix: Air Lab File ID: 140-36689-a-7-c.d
Analysis Method: 23 Date Collected: 05/10/2024 13:45
Extract. Method: Combined Prep Date Extracted: 05/31/2024 12:09
Sample wt/vol: 1(Sample) Date Analyzed: 06/12/2024 06:37
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 87536 Units: ng/Sample
Preparation Batch No.: 87206 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	73		20-130
235416-29-2	PCB-111L	83		20-130
232919-67-4	PCB-178L	83		20-130
STL01600	PCB-8L	89	S	70-130
STL01603	PCB-79L	99		70-130
STL01604	PCB-95L	100		70-130
STL01606	PCB-153L	94		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
 Lims ID: 140-36689-A-7-C
 Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
 Sample Type: Client
 Inject. Date: 12-Jun-2024 06:37:00 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033034-012
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 12-Jun-2024 15:52:55 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1611

First Level Reviewer: P0IK

Date: 12-Jun-2024 15:52:55

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					2.273	2.273	0.0399	0.0399		
D PCB-1L	11:32	6641890	3.02	1.6108	56.5	56.5	0.5564	0.5564	56.48	
D PCB-3L	13:40	7031320	3.13	1.5891	60.6	60.6	0.5640	0.5640	60.60	
PCB-1	11:32	46033	3.05	1.2191	0.5685	0.5685	0.0360	0.0360		M
PCB-2	13:31	63257	2.75	1.1805	0.7838	0.7838	0.0406	0.0406		
PCB-3	13:42	79051	3.23	1.2206	0.9211	0.9211	0.0431	0.0431		
S Total Dichlorobiphenyls					25.3	25.1	0.0844	0.0844		RQ
D PCB-4L	13:56	3027233	1.57	0.6475	64.0	64.0	0.1905	0.1905	64.03	
* PCB-9L	15:56	7300956	1.61		100.0	100.0				
\$ PCB-8L	16:48	1079387	1.63	1.2066	29.7	29.7	0.2141	0.2141	88.97	a
D PCB-15L	20:03	3005470	1.58	1.0789	38.2	38.2	0.1143	0.1143	38.15	a
PCB-4	13:57						0.0781	0.0781		
PCB-10	14:07						0.0880	0.0880		
PCB-9	15:54						0.0814	0.0814		
PCB-7	16:06	26079	1.56	1.4134	0.6857	0.6117	0.0819	0.0819		RQ
PCB-6	16:22	18205	1.56	1.5421	0.4467	0.3914	0.0751	0.0751		RQMa
PCB-5	16:36						0.0864	0.0864		
PCB-8	16:50	43246	1.78	1.5889	0.9023	0.9023	0.0729	0.0729		a
PCB-14	18:20						0.0825	0.0825		
PCB-11	19:27	907575	1.55	1.2951	23.2	23.2	0.0894	0.0894		a
PCB-12	19:27						0.0867	0.0867		U
PCB-13 (C12)	19:27						0.0867	0.0867		U
PCB-15	19:48						0.1064	0.1064		
S Total Trichlorobiphenyls					4.911	4.295	0.0292	0.0292		RQ
D PCB-19L	17:08	1852849	1.09	0.6285	68.0	68.0	0.5133	0.5133	67.96	
* PCB-32L	20:28	4337599	1.06		100.0	100.0				
* PCB-31L	22:37	13229821	1.05		100.0	100.0				
\$ PCB-28L	22:54	10188867	1.04	1.0494	73.4	73.4	0.2187	0.2187	73.39	
D PCB-37L	26:50	9328738	1.07	0.8749	80.6	80.6	0.2623	0.2623	80.59	
PCB-19	17:10						0.0192	0.0192		RQU
PCB-18	18:51						0.0139	0.0139		
PCB-30 (C18)	18:51						0.0139	0.0139		
PCB-17	19:27	925	1.04	1.2430	0.0582	0.0402	0.0198	0.0198		RQ
PCB-27	19:31						0.0134	0.0134		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:38						0.0146	0.0146		
PCB-16	19:46						0.0218	0.0218		
PCB-32	20:30	8438	1.04	1.8324	0.2769	0.2485	0.0134	0.0134		RQa
PCB-34	21:31						0.0364	0.0364		
PCB-23	21:41						0.0379	0.0379		
PCB-26	22:07	23915	1.04	1.1255	0.2864	0.2278	0.0365	0.0365		RQ
PCB-29 (C26)	22:07	23915	1.04	1.1255	0.2864	0.2278	0.0365	0.0365		RQ
PCB-25	22:19	15672	1.04	1.2728	0.1915	0.1320	0.0322	0.0322		RQa
PCB-31	22:39	103013	1.01	1.1532	0.9575	0.9575	0.0356	0.0356		a
PCB-20	22:56	114826	1.04	1.1718	1.164	1.050	0.0350	0.0350		RQ
PCB-28 (C20)	22:56	114826	1.04	1.1718	1.164	1.050	0.0350	0.0350		RQ
PCB-21	23:10	75793	1.04	1.0746	0.9216	0.7561	0.0382	0.0382		RQa
PCB-33 (C21)	23:10	75793	1.04	1.0746	0.9216	0.7561	0.0382	0.0382		RQa
PCB-22	23:33	36427	1.04	1.1932	0.5002	0.3272	0.0344	0.0344		RQ
PCB-36	25:00						0.0371	0.0371		
PCB-39	25:22						0.0354	0.0354		
PCB-38	25:56						0.0378	0.0378		
PCB-35	26:27	31494	1.16	1.1297	0.2988	0.2988	0.0363	0.0363		M
PCB-37	26:51	27374	0.94	1.1435	0.2566	0.2566	0.0359	0.0359		M
S Total Tetrachlorobiphenyls					15.5	15.2	0.0342	0.0342		RQ
D PCB-54L	20:20	1707869	0.82	0.5562	70.8	70.8	0.0631	0.0631	70.79	a
* PCB-52L	24:42	6385433	0.80		100.0	100.0				
\$ PCB-79L	32:33	2275740	0.82	1.0018	33.0	33.0	0.2552	0.2552	98.86	
D PCB-81L	33:32	6687077	0.81	1.2470	84.0	84.0	0.1931	0.1931	83.98	
D PCB-77L	34:06	7100064	0.80	1.3212	84.2	84.2	0.1823	0.1823	84.16	
PCB-54	20:06						0.004453	0.004453		
PCB-50	22:16						0.0438	0.0438		
PCB-53 (C50)	22:16						0.0438	0.0438		
PCB-45	23:06	137687	0.76	0.8264	2.417	2.417	0.0455	0.0455		a
PCB-51 (C45)	23:06	137687	0.76	0.8264	2.417	2.417	0.0455	0.0455		a
PCB-46	23:14						0.0529	0.0529		
PCB-52	24:44	49609	0.86	0.9194	0.7827	0.7827	0.0409	0.0409		a
PCB-43	24:48						0.0364	0.0364		
PCB-73 (C43)	24:48						0.0364	0.0364		
PCB-49	25:05						0.0352	0.0352		
PCB-69 (C49)	25:05						0.0352	0.0352		
PCB-48	25:25						0.0447	0.0447		
PCB-44	25:44	574688	0.79	0.9731	8.567	8.567	0.0386	0.0386		a
PCB-47 (C44)	25:44	574688	0.79	0.9731	8.567	8.567	0.0386	0.0386		a
PCB-65 (C44)	25:44	574688	0.79	0.9731	8.567	8.567	0.0386	0.0386		a
PCB-59	25:58						0.0317	0.0317		
PCB-62 (C59)	25:58						0.0317	0.0317		
PCB-75 (C59)	25:58						0.0317	0.0317		
PCB-42	26:10						0.0464	0.0464		
PCB-40	26:43	21939	0.77	0.8863	0.3591	0.3591	0.0424	0.0424		
PCB-41 (C40)	26:43	21939	0.77	0.8863	0.3591	0.3591	0.0424	0.0424		
PCB-71 (C40)	26:43	21939	0.77	0.8863	0.3591	0.3591	0.0424	0.0424		
PCB-64	26:56	18950	0.77	1.1776	0.3319	0.2334	0.0319	0.0319		RQ
PCB-72	27:43						0.0343	0.0343		
PCB-68	28:02	132828	0.83	1.2533	1.537	1.537	0.0300	0.0300		
PCB-57	28:25						0.0347	0.0347		
PCB-58	28:40						0.0284	0.0284		
PCB-67	28:49						0.0264	0.0264		
PCB-63	29:05						0.0334	0.0334		
PCB-61	29:26	62404	0.69	1.2612	0.7177	0.7177	0.0298	0.0298		M
PCB-70 (C61)	29:26	62404	0.69	1.2612	0.7177	0.7177	0.0298	0.0298		M
PCB-74 (C61)	29:26	62404	0.69	1.2612	0.7177	0.7177	0.0298	0.0298		M
PCB-76 (C61)	29:26	62404	0.69	1.2612	0.7177	0.7177	0.0298	0.0298		M
PCB-66	29:47	24635	0.82	1.2583	0.2840	0.2840	0.0299	0.0299		
PCB-55	29:54						0.0284	0.0284		
PCB-56	30:27	10475	0.77	1.2334	0.1374	0.1232	0.0305	0.0305		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:41	8523	0.77	1.1230	0.2170	0.1101	0.0335	0.0335		RQM
PCB-80	31:03						0.0284	0.0284		
PCB-79	32:34						0.0262	0.0262		
PCB-78	33:07						0.0323	0.0323		
PCB-81	33:33						0.0356	0.0356		
PCB-77	34:08	7916	0.77	1.0836	0.1282	0.1029	0.0339	0.0339		RQM
S Total Pentachlorobiphenyls					1.845	1.530	0.0261	0.0261		RQ
D PCB-104L	25:38	4816376	1.57	1.2161	94.7	94.7	0.0518	0.0518	94.70	
\$ PCB-95L	28:34	1159805	1.57	0.7218	33.4	33.4	0.0692	0.0692	100	
* PCB-101L	31:29	4182273	1.59		100.0	100.0				
\$ PCB-111L	34:09	4730692	1.61	1.3699	82.6	82.6	0.0460	0.0460	82.57	
D PCB-123L	36:06	6900879	1.59	0.9731	96.0	96.0	1.275	1.275	95.96	
D PCB-118L	36:25	7088616	1.59	1.0102	95.0	95.0	1.228	1.228	94.95	
D PCB-114L	36:57	7072371	1.60	0.9949	96.2	96.2	1.247	1.247	96.19	
D PCB-105L	37:36	6768325	1.61	0.9514	96.3	96.3	1.304	1.304	96.26	
* PCB-127L	39:04	7390109	1.60		100.0	100.0				
D PCB-126L	40:41	6750950	1.60	0.9439	96.8	96.8	1.314	1.314	96.78	
PCB-104	25:36						0.0106	0.0106		
PCB-96	25:58						0.009803	0.009803		
PCB-103	27:54						0.0123	0.0123		
PCB-94	28:07						0.0140	0.0140		
PCB-95	28:35	9925	1.55	0.8033	0.2831	0.2565	0.0134	0.0134		RQM
PCB-93	28:55						0.0127	0.0127		RQMU
PCB-100 (C93)	28:55						0.0127	0.0127		RQMU
PCB-98	28:55	2642	1.55	0.8262	0.0726	0.0664	0.0130	0.0130		RQM
PCB-102 (C98)	28:55	2642	1.55	0.8262	0.0726	0.0664	0.0130	0.0130		RQM
PCB-88	29:25	1810	1.55	0.8013	0.0632	0.0469	0.0134	0.0134		RQ
PCB-91 (C88)	29:25	1810	1.55	0.8013	0.0632	0.0469	0.0134	0.0134		RQ
PCB-84	29:39	1922	1.55	0.7299	0.1023	0.0547	0.0147	0.0147		RQa
PCB-89	30:07						0.0138	0.0138		
PCB-121	30:32						0.008272	0.008272		
PCB-92	30:55						0.0125	0.0125		
PCB-90	31:31	14058	1.63	0.9550	0.3056	0.3056	0.0112	0.0112		M
PCB-101 (C90)	31:31	14058	1.63	0.9550	0.3056	0.3056	0.0112	0.0112		M
PCB-113 (C90)	31:31	14058	1.63	0.9550	0.3056	0.3056	0.0112	0.0112		M
PCB-83	32:04	7935	1.55	0.8385	0.2216	0.1965	0.0128	0.0128		RQM
PCB-99 (C83)	32:04	7935	1.55	0.8385	0.2216	0.1965	0.0128	0.0128		RQM
PCB-112	32:11						0.007600	0.007600		
PCB-86	32:41	8930	1.55	1.0473	0.2365	0.1770	0.0102	0.0102		RQM
PCB-87 (C86)	32:41	8930	1.55	1.0473	0.2365	0.1770	0.0102	0.0102		RQM
PCB-97 (C86)	32:41	8930	1.55	1.0473	0.2365	0.1770	0.0102	0.0102		RQM
PCB-109 (C86)	32:41	8930	1.55	1.0473	0.2365	0.1770	0.0102	0.0102		RQM
PCB-119 (C86)	32:41	8930	1.55	1.0473	0.2365	0.1770	0.0102	0.0102		RQM
PCB-125 (C86)	32:41	8930	1.55	1.0473	0.2365	0.1770	0.0102	0.0102		RQM
PCB-85	33:15	1152	1.55	1.0408	0.0291	0.0230	0.0103	0.0103		RQ
PCB-116 (C85)	33:15	1152	1.55	1.0408	0.0291	0.0230	0.0103	0.0103		RQ
PCB-117 (C85)	33:15	1152	1.55	1.0408	0.0291	0.0230	0.0103	0.0103		RQ
PCB-110	33:28	13066	1.55	1.1919	0.2969	0.2276	0.008998	0.008998		RQa
PCB-115 (C110)	33:28	13066	1.55	1.1919	0.2969	0.2276	0.008998	0.008998		RQa
PCB-82	33:47						0.0129	0.0129		
PCB-111	34:10						0.008845	0.008845		
PCB-120	34:37						0.007265	0.007265		
PCB-108	35:46						0.0556	0.0556		
PCB-124 (C108)	35:46						0.0556	0.0556		
PCB-107	36:00						0.0523	0.0523		
PCB-123	36:07						0.0585	0.0585		
PCB-106	36:14						0.0585	0.0585		
PCB-118	36:26	11221	1.58	1.2055	0.1313	0.1313	0.0504	0.0504		
PCB-122	36:47						0.0663	0.0663		
PCB-114	36:58	3446	1.55	1.0842	0.1031	0.0449	0.0567	0.0567		RQM

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:37						0.0554	0.0554		
PCB-127	39:06						0.0556	0.0556		
PCB-126	40:42						0.0606	0.0606		
S Total Hexachlorobiphenyls					0.6498	0.5573	0.0114	0.0114		RQ
D PCB-155L	31:15	4432815	1.24	1.0851	97.7	97.7	0.0394	0.0394	97.68	
\$ PCB-153L	38:18	1698640	1.30	0.9169	31.2	31.2	0.4380	0.4380	93.58	
* PCB-138L	39:33	5296087	1.27		100.0	100.0				
D PCB-167L	42:33	5925435	1.28	1.2572	89.0	89.0	0.2953	0.2953	88.99	
D PCB-156L	43:41	11833766	1.28	1.2106	184.6	184.6	0.3066	0.3066	92.29	
D PCB-157L (C156L)	43:41	11833766	1.28	1.2106	184.6	184.6	0.3066	0.3066	92.29	
D PCB-169L	46:55	5995563	1.28	1.2439	91.0	91.0	0.2984	0.2984	91.01	
PCB-155	31:16						0.003212	0.003212		
PCB-152	31:27						0.003066	0.003066		
PCB-150	31:37						0.002994	0.002994		
PCB-136	31:59						0.002999	0.002999		
PCB-145	32:16						0.003133	0.003133		
PCB-148	33:48						0.003991	0.003991		
PCB-135	34:22						0.004181	0.004181		
PCB-151 (C135)	34:22						0.004181	0.004181		
PCB-154	34:38						0.003732	0.003732		
PCB-144	34:57						0.003864	0.003864		
PCB-147	35:17	9721	1.20	0.8950	0.1829	0.1829	0.0154	0.0154		
PCB-149 (C147)	35:17	9721	1.20	0.8950	0.1829	0.1829	0.0154	0.0154		
PCB-134	35:36						0.0173	0.0173		
PCB-143 (C134)	35:36						0.0173	0.0173		
PCB-139	35:54						0.0157	0.0157		
PCB-140 (C139)	35:54						0.0157	0.0157		
PCB-131	36:06						0.0184	0.0184		
PCB-142	36:15						0.0184	0.0184		
PCB-132	36:37	3466	1.24	0.7489	0.0959	0.0779	0.0184	0.0184		RQ
PCB-133	37:04						0.0170	0.0170		
PCB-165	37:28						0.0135	0.0135		
PCB-146	37:43						0.0143	0.0143		
PCB-161	37:51						0.0122	0.0122		
PCB-153	38:20	7631	1.24	1.0938	0.1363	0.1175	0.0126	0.0126		RQ
PCB-168 (C153)	38:20	7631	1.24	1.0938	0.1363	0.1175	0.0126	0.0126		RQ
PCB-141	38:30	2296	1.24	0.8755	0.0566	0.0442	0.0157	0.0157		RQ
PCB-130	38:55						0.0196	0.0196		
PCB-137	39:09						0.0178	0.0178		
PCB-164	39:16						0.0133	0.0133		
PCB-129	39:32	5019	1.24	0.9464	0.1225	0.0893	0.0146	0.0146		RQM
PCB-138 (C129)	39:32	5019	1.24	0.9464	0.1225	0.0893	0.0146	0.0146		RQM
PCB-160 (C129)	39:32	5019	1.24	0.9464	0.1225	0.0893	0.0146	0.0146		RQM
PCB-163 (C129)	39:32	5019	1.24	0.9464	0.1225	0.0893	0.0146	0.0146		RQM
PCB-158	39:57						0.0105	0.0105		
PCB-128	40:51	1275	1.24	0.9829	0.0318	0.0218	0.0140	0.0140		RQ
PCB-166 (C128)	40:51	1275	1.24	0.9829	0.0318	0.0218	0.0140	0.0140		RQ
PCB-159	41:48						0.0099	0.0099		
PCB-162	42:05						0.0110	0.0110		
PCB-167	42:34						0.0102	0.0102		
PCB-156	43:40	1559	1.37	1.1104	0.0237	0.0237	0.0154	0.0154		
PCB-157 (C156)	43:40	1559	1.37	1.1104	0.0237	0.0237	0.0154	0.0154		
PCB-169	46:57						0.0100	0.0100		
S Total Heptachlorobiphenyls					0.2021	0.1405	0.004481	0.004481		RQ
D PCB-188L	36:57	5088386	1.08	1.3133	94.1	94.1	0.0388	0.0388	94.09	
\$ PCB-178L	40:01	3533837	1.06	1.0313	83.2	83.2	0.0495	0.0495	83.21	
* PCB-180L	45:05	4117973	1.07		100.0	100.0				
D PCB-170L	46:20	3293728	1.04	0.8362	95.7	95.7	0.0610	0.0610	95.65	
D PCB-189L	49:26	7948824	1.05	1.4414	97.1	97.1	0.2095	0.2095	97.14	
PCB-188	36:58						0.001933	0.001933		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:19						0.001887	0.001887		
PCB-184	37:50						0.001970	0.001970		
PCB-176	38:11						0.002184	0.002184		
PCB-186	38:39						0.001828	0.001828		
PCB-178	40:02						0.003010	0.003010		
PCB-175	40:39						0.002828	0.002828		
PCB-187	40:55						0.002444	0.002444		
PCB-182	41:08						0.002913	0.002913		
PCB-183	41:35	1208	1.05	0.9825	0.0507	0.0293	0.002741	0.002741		RQM
PCB-185 (C183)	41:35	1208	1.05	0.9825	0.0507	0.0293	0.002741	0.002741		RQM
PCB-174	41:48	1060	1.01	0.9642	0.0262	0.0262	0.002793	0.002793		
PCB-177	42:12						0.002756	0.002756		
PCB-181	42:36						0.002833	0.002833		
PCB-171	42:49	114	1.05	0.9336	0.007488	0.002913	0.002885	0.002885		RQ
PCB-173 (C171)	42:49	114	1.05	0.9336	0.007488	0.002913	0.002885	0.002885		RQ
PCB-172	44:27						0.003162	0.003162		
PCB-192	44:41	198	1.05	1.3459	0.0166	0.003510	0.002001	0.002001		RQ
PCB-180	45:04	2441	1.05	1.1676	0.0556	0.0499	0.002307	0.002307		RQ
PCB-193 (C180)	45:04	2441	1.05	1.1676	0.0556	0.0499	0.002307	0.002307		RQ
PCB-191	45:27						0.002089	0.002089		
PCB-170	46:22	1119	1.05	1.1865	0.0455	0.0286	0.002940	0.002940		RQ
PCB-190	46:53						0.002022	0.002022		
PCB-189	49:28						0.0446	0.0446		
S Total Octachlorobiphenyls					0.0838	0.0701	0.008893	0.008893		RQ
D PCB-202L	42:19	3809537	0.89	0.9818	94.2	94.2	0.0313	0.0313	94.22	
* PCB-194L	51:33	5676714	0.93		100.0	100.0				
D PCB-205L	52:01	6237671	0.91	1.1786	93.2	93.2	0.0558	0.0558	93.23	
PCB-202	42:20						0.004571	0.004571		
PCB-201	43:15						0.004854	0.004854		
PCB-204	43:55						0.004515	0.004515		
PCB-197	44:09						0.004132	0.004132		
PCB-200	44:16						0.004701	0.004701		
PCB-198	47:02						0.005443	0.005443		
PCB-199 (C198)	47:02						0.005443	0.005443		
PCB-196	47:43	2085	0.89	0.7806	0.0838	0.0701	0.006065	0.006065		RQ
PCB-203	47:54						0.005095	0.005095		
PCB-195	49:13						0.0224	0.0224		
PCB-194	51:34						0.0190	0.0190		
PCB-205	52:02						0.0170	0.0170		
S Total Nonachlorobiphenyls							0.0840	0.0840		
D PCB-208L	48:58	5572445	0.80	0.9576	102.5	102.5	0.4058	0.4058	103	
D PCB-206L	53:46	3921902	0.79	0.6947	99.5	99.5	0.5593	0.5593	99.45	
PCB-208	49:00						0.0668	0.0668		
PCB-207	49:55						0.0658	0.0658		
PCB-206	53:47						0.0840	0.0840		
D PCB-209L	55:23	4117340	0.72	0.6669	108.8	108.8	0.0573	0.0573	109	
DCB Decachlorobiphenyl	55:24						0.006074	0.006074		
S Polychlorinated biphenyls, Total					48.4		0.0321	0.0321		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Lims ID: 140-36689-A-7-C
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Sample Type: Client
Inject. Date: 12-Jun-2024 06:37:00 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033034-012
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 15:52:55 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1611

First Level Reviewer: P0IK

Date: 12-Jun-2024 15:52:55

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:32	11:34	-1	0.723	4988485	2036816	1192	2980	1709		
202.0766	11:32	11:34	-1	0.723	1653405	664723	5033	12582	132	3.02(2.66-3.60)	
PCB-3L											
200.0795	13:40	13:42	0	0.858	5329716	1706931	1192	2980	1432		
202.0766	13:40	13:42	0	0.858	1701604	548957	5033	12582	109	3.13(2.66-3.60)	
PCB-1											
188.0393	11:32	11:32	-1	1.001	34663	14964	219	547	68		M
190.0363	11:32	11:32	-1	1.001	11370	4242	256	640	17	3.05(2.66-3.60)	M
PCB-2											
188.0393	13:31	13:31	0	0.988	46410	16224	219	547	74		
190.0363	13:31	13:31	0	0.988	16847	5782	256	640	23	2.75(2.66-3.60)	
PCB-3											
188.0393	13:42	13:41	1	1.002	60372	17336	219	547	79		
190.0363	13:41	13:41	0	1.001	18679	6369	256	640	25	3.23(2.66-3.60)	
PCB-4L											
234.0406	13:56	13:58	0	0.874	1847236	579527	640	1600	906		
236.0376	13:56	13:58	0	0.874	1179997	379836	217	542	1750	1.57(1.33-1.79)	
PCB-9L											
234.0406	15:56	15:53	3		4505498	1068636	640	1600	1670		
236.0376	15:56	15:53	3		2795458	667704	217	542	3077	1.61(1.33-1.79)	
PCB-8L											
234.0406	16:48	16:48	5	1.206	668453	115614	640	1600	181		a
236.0376	16:49	16:48	6	1.207	410934	72602	217	542	335	1.63(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											a
234.0406	20:03	20:03	16	1.258	1842231	432412	640	1600	676		a
236.0376	20:03	20:03	16	1.258	1163239	266918	217	542	1230	1.58(1.33-1.79)	
PCB-4											
222.0003	13:55						165	412			
223.9974	13:55						219	547			
PCB-10											
222.0003	14:07						165	412			
223.9974	14:07						219	547			
PCB-9											
222.0003	15:54						165	412			
223.9974	15:54						219	547			
PCB-7											RQ
222.0003	16:06	16:06	2	1.156	15892	3622	165	412	22		
223.9974	16:07	16:06	3	1.157	13344	2743	219	547	13	1.19(1.33-1.79)	
	Empc Correction				10187	2321	219	547	11		
PCB-6											RQMa
222.0003	16:22	16:24	4	1.175	11094	2585	165	412	16		a
223.9974	16:24	16:24	5	1.177	9686	2059	219	547	9	1.15(1.33-1.79)	M
	Empc Correction				7111	1657	219	547	8		
PCB-5											
222.0003	16:36						165	412			
223.9974	16:36						219	547			
PCB-8											a
222.0003	16:50	16:50	6	1.209	27674	5766	165	412	35		a
223.9974	16:50	16:50	5	1.208	15572	3026	219	547	14	1.78(1.33-1.79)	
PCB-14											
222.0003	18:36						165	412			
223.9974	18:36						219	547			
PCB-11											a
222.0003	19:27	19:27	16	0.970	551084	114174	165	412	692		a
223.9974	19:27	19:27	16	0.970	356491	72046	219	547	329	1.55(1.33-1.79)	
PCB-12											U
222.0003	19:39						165	412			
223.9974	19:39						219	547			
PCB-13 (C12)											U
222.0003	19:39						165	412			
223.9974	19:39						219	547			
PCB-15											
222.0003	20:04						165	412			
223.9974	20:04						219	547			
PCB-19L											
268.0016	17:08	17:05	7	0.837	965566	198626	895	2237	222		
269.9986	17:08	17:05	7	0.837	887283	175745	428	1070	411	1.09(0.88-1.20)	
PCB-32L											
268.0016	20:28	20:15	13		2234077	521985	895	2237	583		
269.9986	20:28	20:15	13		2103522	502952	428	1070	1175	1.06(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:37	22:31	7		6763468	1573315	1331	3327	1182		
269.9986	22:37	22:31	7		6466353	1483556	1475	3687	1006	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:54	22:54	7	1.012	5203384	1178515	1331	3327	885		
269.9986	22:54	22:54	7	1.012	4985483	1114924	1475	3687	756	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:50	26:56	3	1.187	4826176	1056716	1331	3327	794		
269.9986	26:50	26:56	3	1.187	4502562	990843	1475	3687	672	1.07(0.88-1.20)	
PCB-19											
255.9613	17:05						18	45			RQU
257.9584	17:05						19	47			
PCB-18											
255.9613	18:59						18	45			
257.9584	18:59						19	47			
PCB-30 (C18)											
255.9613	18:59						18	45			
257.9584	18:59						19	47			
PCB-17											
255.9613	19:27	19:26	9	1.136	472	164	18	45	9		RQ
257.9584	19:29	19:26	11	1.137	868	387	19	47	20	0.54(0.88-1.20)	
	Empc Correction				453	157	19	47	8		
PCB-27											
255.9613	19:39						18	45			
257.9584	19:39						19	47			
PCB-24											
255.9613	19:47						18	45			
257.9584	19:47						19	47			
PCB-16											
255.9613	20:03						18	45			
257.9584	20:03						19	47			
PCB-32											
255.9613	20:30	20:30	13	1.197	4302	1322	18	45	73		RQa
257.9584	20:30	20:30	13	1.197	5099	1573	19	47	83	0.84(0.88-1.20)	a
	Empc Correction				4136	1271	19	47	67		
PCB-34											
255.9613	21:40						175	437			
257.9584	21:40						161	402			
PCB-23											
255.9613	21:50						175	437			
257.9584	21:50						161	402			
PCB-26											
255.9613	22:07	22:03	8	1.292	12192	2796	175	437	16		RQ
257.9584	22:07	22:03	8	1.292	17882	3400	161	402	21	0.68(0.88-1.20)	
	Empc Correction				11723	2688	161	402	17		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											RQ
255.9613	22:07	22:03	8	1.292	12192	2796	175	437	16		
257.9584	22:07	22:03	8	1.292	17882	3400	161	402	21	0.68(0.88-1.20)	
Empc Correction					11723	2688	161	402	17		
PCB-25											RQa
255.9613	22:19	22:19	6	0.831	7990	1546	175	437	9		a
257.9584	22:22	22:19	9	0.833	14750	2379	161	402	15	0.54(0.88-1.20)	
Empc Correction					7682	1486	161	402	9		
PCB-31											a
255.9613	22:39	22:39	8	0.844	51809	10579	175	437	60		a
257.9584	22:39	22:39	8	0.844	51204	12849	161	402	80	1.01(0.88-1.20)	
PCB-20											RQ
255.9613	22:56	22:53	6	0.854	58539	13190	175	437	75		
257.9584	22:56	22:53	7	0.855	68651	13371	161	402	83	0.85(0.88-1.20)	
Empc Correction					56287	12682	161	402	79		
PCB-28 (C20)											RQ
255.9613	22:56	22:53	6	0.854	58539	13190	175	437	75		
257.9584	22:56	22:53	7	0.855	68651	13371	161	402	83	0.85(0.88-1.20)	
Empc Correction					56287	12682	161	402	79		
PCB-21											RQa
255.9613	23:10	23:10	11	0.863	38640	7536	175	437	43		a
257.9584	23:10	23:10	11	0.863	53745	8287	161	402	51	0.72(0.88-1.20)	
Empc Correction					37153	7246	161	402	45		
PCB-33 (C21)											RQa
255.9613	23:10	23:10	11	0.863	38640	7536	175	437	43		a
257.9584	23:10	23:10	11	0.863	53745	8287	161	402	51	0.72(0.88-1.20)	
Empc Correction					37153	7246	161	402	45		
PCB-22											RQ
255.9613	23:33	23:33	5	0.877	18571	3828	175	437	22		
257.9584	23:33	23:33	6	0.878	37110	5355	161	402	33	0.50(0.88-1.20)	
Empc Correction					17856	3680	161	402	23		
PCB-36											
255.9613	25:03						175	437			
257.9584	25:03						161	402			
PCB-39											
255.9613	25:24						175	437			
257.9584	25:24						161	402			
PCB-38											
255.9613	25:59						175	437			
257.9584	25:59						161	402			
PCB-35											M
255.9613	26:27	26:27	4	0.986	16883	3799	175	437	22		
257.9584	26:27	26:27	4	0.986	14611	3627	161	402	23	1.16(0.88-1.20)	M
PCB-37											M
255.9613	26:51	26:51	3	1.000	13253	3256	175	437	19		M
257.9584	26:52	26:51	4	1.001	14121	3005	161	402	19	0.94(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54L											a
301.9626	20:20	20:20	16	0.823	771301	175974	92	230	1913		a
303.9597	20:20	20:20	16	0.823	936568	211987	52	130	4077	0.82(0.65-0.89)	
PCB-52L											
301.9626	24:42	24:38	4		2839687	657684	534	1335	1232		
303.9597	24:42	24:38	4		3545746	802779	873	2182	920	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:33	32:32	0	0.970	1023249	203345	534	1335	381		
303.9597	32:33	32:32	1	0.971	1252491	246551	873	2182	282	0.82(0.65-0.89)	
PCB-81L											
301.9626	33:32	33:37	1	1.358	2982721	606622	534	1335	1136		
303.9597	33:32	33:37	1	1.358	3704356	737553	873	2182	845	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:06	34:12	0	1.381	3163231	621108	534	1335	1163		
303.9597	34:06	34:12	0	1.381	3936833	786186	873	2182	901	0.80(0.65-0.89)	
PCB-54											
289.9224	20:06						1	2			
291.9194	20:06						8	20			
PCB-50											
289.9224	22:33						102	255			
291.9194	22:33						105	262			
PCB-53 (C50)											
289.9224	22:33						102	255			
291.9194	22:33						105	262			
PCB-45											a
289.9224	23:06	23:06	7	1.136	59423	12134	102	255	119		a
291.9194	23:06	23:06	7	1.136	78264	16798	105	262	160	0.76(0.65-0.89)	
PCB-51 (C45)											a
289.9224	23:06	23:06	7	1.136	59423	12134	102	255	119		a
291.9194	23:06	23:06	7	1.136	78264	16798	105	262	160	0.76(0.65-0.89)	
PCB-46											
289.9224	23:32						102	255			
291.9194	23:32						105	262			
PCB-52											a
289.9224	24:44	24:44	5	1.216	22948	5011	102	255	49		a
291.9194	24:44	24:44	5	1.216	26661	5271	105	262	50	0.86(0.65-0.89)	
PCB-43											
289.9224	25:07						102	255			
291.9194	25:07						105	262			
PCB-73 (C43)											
289.9224	25:07						102	255			
291.9194	25:07						105	262			
PCB-49											
289.9224	25:24						102	255			
291.9194	25:24						105	262			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-69 (C49)											
289.9224	25:24						102	255			
291.9194	25:24						105	262			
PCB-48											
289.9224	25:45						102	255			
291.9194	25:45						105	262			
PCB-44											
289.9224	25:44	25:44	5	1.266	253185	52404	102	255	514		a
291.9194	25:44	25:44	5	1.266	321503	71174	105	262	678	0.79(0.65-0.89)	a
PCB-47 (C44)											
289.9224	25:44	25:44	5	1.266	253185	52404	102	255	514		a
291.9194	25:44	25:44	5	1.266	321503	71174	105	262	678	0.79(0.65-0.89)	a
PCB-65 (C44)											
289.9224	25:44	25:44	5	1.266	253185	52404	102	255	514		a
291.9194	25:44	25:44	5	1.266	321503	71174	105	262	678	0.79(0.65-0.89)	a
PCB-59											
289.9224	26:18						102	255			
291.9194	26:18						105	262			
PCB-62 (C59)											
289.9224	26:18						102	255			
291.9194	26:18						105	262			
PCB-75 (C59)											
289.9224	26:18						102	255			
291.9194	26:18						105	262			
PCB-42											
289.9224	26:30						102	255			
291.9194	26:30						105	262			
PCB-40											
289.9224	26:43	26:41	3	1.314	9544	2136	102	255	21		
291.9194	26:42	26:41	2	1.313	12395	2263	105	262	22	0.77(0.65-0.89)	
PCB-41 (C40)											
289.9224	26:43	26:41	3	1.314	9544	2136	102	255	21		
291.9194	26:42	26:41	2	1.313	12395	2263	105	262	22	0.77(0.65-0.89)	
PCB-71 (C40)											
289.9224	26:43	26:41	3	1.314	9544	2136	102	255	21		
291.9194	26:42	26:41	2	1.313	12395	2263	105	262	22	0.77(0.65-0.89)	
PCB-64											
289.9224	26:56	27:06	3	1.325	8244	1934	102	255	19		RQ
291.9194	26:57	27:06	4	1.325	18695	2868	105	262	27	0.44(0.65-0.89)	
	Empc Correction				10706	2511	105	262	24		
PCB-72											
289.9224	27:44						102	255			
291.9194	27:44						105	262			
PCB-68											
289.9224	28:02	28:02	2	0.836	60061	12125	102	255	119		
291.9194	28:02	28:02	2	0.836	72767	16571	105	262	158	0.83(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-57											
289.9224	28:26						102	255			
291.9194	28:26						105	262			
PCB-58											
289.9224	28:41						102	255			
291.9194	28:41						105	262			
PCB-67											
289.9224	28:50						102	255			
291.9194	28:50						105	262			
PCB-63											
289.9224	29:06						102	255			
291.9194	29:06						105	262			
PCB-61											
289.9224	29:26	29:28	0	0.878	25477	4107	102	255	40		M
291.9194	29:28	29:28	2	0.878	36927	4667	105	262	44	0.69(0.65-0.89)	M
PCB-70 (C61)											
289.9224	29:26	29:28	0	0.878	25477	4107	102	255	40		M
291.9194	29:28	29:28	2	0.878	36927	4667	105	262	44	0.69(0.65-0.89)	M
PCB-74 (C61)											
289.9224	29:26	29:28	0	0.878	25477	4107	102	255	40		M
291.9194	29:28	29:28	2	0.878	36927	4667	105	262	44	0.69(0.65-0.89)	M
PCB-76 (C61)											
289.9224	29:26	29:28	0	0.878	25477	4107	102	255	40		M
291.9194	29:28	29:28	2	0.878	36927	4667	105	262	44	0.69(0.65-0.89)	M
PCB-66											
289.9224	29:47	29:45	2	0.888	11123	2196	102	255	22		
291.9194	29:45	29:45	0	0.887	13512	3254	105	262	31	0.82(0.65-0.89)	
PCB-55											
289.9224	29:55						102	255			
291.9194	29:55						105	262			
PCB-56											
289.9224	30:27	30:25	2	0.908	4557	1699	102	255	17		RQ
291.9194	30:28	30:25	3	0.908	7129	1907	105	262	18	0.64(0.65-0.89)	
	Empc Correction				5918	2206	105	262	21		
PCB-60											
289.9224	30:41	30:40	3	0.915	3708	885	102	255	9		RQM
291.9194	30:40	30:40	3	0.914	13089	2358	105	262	22	0.28(0.65-0.89)	M
	Empc Correction				4815	1149	105	262	11		
PCB-80											
289.9224	31:03						102	255			
291.9194	31:03						105	262			
PCB-79											
289.9224	32:35						102	255			
291.9194	32:35						105	262			
PCB-78											
289.9224	33:08						102	255			
291.9194	33:08						105	262			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81											
289.9224	33:34						102	255			
291.9194	33:34						105	262			
PCB-77											
289.9224	34:08	34:08	1	1.001	3444	739	102	255	7		RQM
291.9194	34:05	34:08	-1	1.000	6422	1803	105	262	17	0.54(0.65-0.89)	M
Empc Correction					4472	959	105	262	9		
PCB-104L											
337.9207	25:38	25:34	4	0.814	2943181	673311	127	317	5302		
339.9178	25:38	25:34	4	0.814	1873195	417678	91	227	4590	1.57(1.32-1.78)	
PCB-95L											
337.9207	28:34	28:35	2	1.115	708580	151943	127	317	1196		
339.9178	28:34	28:35	2	1.115	451225	98337	91	227	1081	1.57(1.32-1.78)	
PCB-101L											
337.9207	31:29	31:28	1		2565105	532566	127	317	4193		
339.9178	31:29	31:28	1		1617168	333196	91	227	3661	1.59(1.32-1.78)	
PCB-111L											
337.9207	34:09	34:09	1	1.085	2917489	579757	127	317	4565		
339.9178	34:09	34:09	1	1.085	1813203	360263	91	227	3959	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:06	36:06	1	1.147	4233607	836532	4259	10647	196		
339.9178	36:06	36:06	1	1.147	2667272	525806	2779	6947	189	1.59(1.32-1.78)	
PCB-118L											
337.9207	36:25	36:26	0	1.157	4350788	864088	4259	10647	203		
339.9178	36:25	36:26	0	1.157	2737828	542414	2779	6947	195	1.59(1.32-1.78)	
PCB-114L											
337.9207	36:57	36:58	0	1.174	4353475	853755	4259	10647	200		
339.9178	36:57	36:58	0	1.174	2718896	536936	2779	6947	193	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:36	37:36	1	1.194	4178151	800728	4259	10647	188		
339.9178	37:35	37:36	0	1.194	2590174	498501	2779	6947	179	1.61(1.32-1.78)	
PCB-127L											
337.9207	39:04	39:04	1		4548823	875103	4259	10647	205		
339.9178	39:04	39:04	1		2841286	543057	2779	6947	195	1.60(1.32-1.78)	
PCB-126L											
337.9207	40:41	40:42	0	1.292	4155414	790209	4259	10647	186		
339.9178	40:41	40:42	0	1.292	2595536	494778	2779	6947	178	1.60(1.32-1.78)	
PCB-104											
325.8804	25:39						39	97			
327.8775	25:39						8	20			
PCB-96											
325.8804	25:59						39	97			
327.8775	25:59						8	20			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-103											
325.8804	27:58						39	97			
327.8775	27:58						8	20			
PCB-94											
325.8804	28:11						39	97			
327.8775	28:11						8	20			
PCB-95											
325.8804	28:35	28:35	1	1.115	6033	1086	39	97	28		RQM
327.8775	28:36	28:35	3	1.116	4918	1151	8	20	144	1.23(1.32-1.78)	M
	Empc Correction				3892	700	8	20	88		
PCB-93											
325.8804	28:55						39	97			RQMU
327.8775	28:55						8	20			
PCB-100 (C93)											
325.8804	28:55						39	97			RQMU
327.8775	28:55						8	20			
PCB-98											
325.8804	28:55	28:55	0	1.128	1606	592	39	97	15		RQM
327.8775	28:55	28:55	0	1.128	1282	523	8	20	65	1.25(1.32-1.78)	M
	Empc Correction				1036	381	8	20	48		
PCB-102 (C98)											
325.8804	28:55	28:55	0	1.128	1606	592	39	97	15		RQM
327.8775	28:55	28:55	0	1.128	1282	523	8	20	65	1.25(1.32-1.78)	M
	Empc Correction				1036	381	8	20	48		
PCB-88											
325.8804	29:25	29:26	0	1.148	1728	442	39	97	11		RQ
	Empc Correction				1100	320	39	97	8		
327.8775	29:28	29:26	3	1.150	710	207	8	20	26	2.43(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:25	29:26	0	1.148	1728	442	39	97	11		RQ
	Empc Correction				1100	320	39	97	8		
327.8775	29:28	29:26	3	1.150	710	207	8	20	26	2.43(1.32-1.78)	
PCB-84											
325.8804	29:39	29:39	0	1.157	2842	431	39	97	11		RQa
	Empc Correction				1168	330	39	97	8		a
327.8775	29:41	29:39	2	1.158	754	213	8	20	27	3.77(1.32-1.78)	
PCB-89											
325.8804	30:11						39	97			
327.8775	30:11						8	20			
PCB-121											
325.8804	30:36						39	97			
327.8775	30:36						8	20			
PCB-92											
325.8804	30:56						39	97			
327.8775	30:56						8	20			
PCB-90											
325.8804	31:31	31:31	3	1.230	8720	2126	39	97	55		M
327.8775	31:31	31:31	3	1.230	5338	1108	8	20	139	1.63(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-101 (C90)											M
325.8804	31:31	31:31	3	1.230	8720	2126	39	97	55		M
327.8775	31:31	31:31	3	1.230	5338	1108	8	20	139	1.63(1.32-1.78)	
PCB-113 (C90)											M
325.8804	31:31	31:31	3	1.230	8720	2126	39	97	55		M
327.8775	31:31	31:31	3	1.230	5338	1108	8	20	139	1.63(1.32-1.78)	
PCB-83											RQM
325.8804	32:04	32:07	0	1.252	5838	1203	39	97	31		
	Empc Correction				4823	925	39	97	24		
327.8775	32:07	32:07	3	1.253	3112	597	8	20	75	1.88(1.32-1.78)	M
PCB-99 (C83)											RQM
325.8804	32:04	32:07	0	1.252	5838	1203	39	97	31		
	Empc Correction				4823	925	39	97	24		
327.8775	32:07	32:07	3	1.253	3112	597	8	20	75	1.88(1.32-1.78)	M
PCB-112											
325.8804	32:15						39	97			
327.8775	32:15						8	20			
PCB-86											RQM
325.8804	32:41	32:40	8	1.276	8425	726	39	97	19		M
	Empc Correction				5428	836	39	97	21		
327.8775	32:40	32:40	7	1.275	3502	540	8	20	68	2.41(1.32-1.78)	M
PCB-87 (C86)											RQM
325.8804	32:41	32:40	8	1.276	8425	726	39	97	19		M
	Empc Correction				5428	836	39	97	21		
327.8775	32:40	32:40	7	1.275	3502	540	8	20	68	2.41(1.32-1.78)	M
PCB-97 (C86)											RQM
325.8804	32:41	32:40	8	1.276	8425	726	39	97	19		M
	Empc Correction				5428	836	39	97	21		
327.8775	32:40	32:40	7	1.275	3502	540	8	20	68	2.41(1.32-1.78)	M
PCB-109 (C86)											RQM
325.8804	32:41	32:40	8	1.276	8425	726	39	97	19		M
	Empc Correction				5428	836	39	97	21		
327.8775	32:40	32:40	7	1.275	3502	540	8	20	68	2.41(1.32-1.78)	M
PCB-119 (C86)											RQM
325.8804	32:41	32:40	8	1.276	8425	726	39	97	19		M
	Empc Correction				5428	836	39	97	21		
327.8775	32:40	32:40	7	1.275	3502	540	8	20	68	2.41(1.32-1.78)	M
PCB-125 (C86)											RQM
325.8804	32:41	32:40	8	1.276	8425	726	39	97	19		M
	Empc Correction				5428	836	39	97	21		
327.8775	32:40	32:40	7	1.275	3502	540	8	20	68	2.41(1.32-1.78)	M
PCB-85											RQ
325.8804	33:15	33:17	-1	1.297	1006	260	39	97	7		
	Empc Correction				700	195	39	97	5		
327.8775	33:14	33:17	-2	1.297	452	126	8	20	16	2.23(1.32-1.78)	
PCB-116 (C85)											RQ
325.8804	33:15	33:17	-1	1.297	1006	260	39	97	7		
	Empc Correction				700	195	39	97	5		
327.8775	33:14	33:17	-2	1.297	452	126	8	20	16	2.23(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-117 (C85)											RQ
325.8804	33:15	33:17	-1	1.297	1006	260	39	97	7		
	Empc Correction				700	195	39	97	5		
327.8775	33:14	33:17	-2	1.297	452	126	8	20	16	2.23(1.32-1.78)	
PCB-110											RQa
325.8804	33:28	33:28	-2	1.306	11917	2382	39	97	61		a
	Empc Correction				7942	1639	39	97	42		
327.8775	33:28	33:28	-2	1.306	5124	1058	8	20	132	2.33(1.32-1.78)	
PCB-115 (C110)											RQa
325.8804	33:28	33:28	-2	1.306	11917	2382	39	97	61		a
	Empc Correction				7942	1639	39	97	42		
327.8775	33:28	33:28	-2	1.306	5124	1058	8	20	132	2.33(1.32-1.78)	
PCB-82											
325.8804	33:51						39	97			
327.8775	33:51						8	20			
PCB-111											
325.8804	34:15						39	97			
327.8775	34:15						8	20			
PCB-120											
325.8804	34:42						39	97			
327.8775	34:42						8	20			
PCB-108											
325.8804	35:51						136	340			
327.8775	35:51						206	515			
PCB-124 (C108)											
325.8804	35:51						136	340			
327.8775	35:51						206	515			
PCB-107											
325.8804	36:05						136	340			
327.8775	36:05						206	515			
PCB-123											
325.8804	36:08						136	340			
327.8775	36:08						206	515			
PCB-106											
325.8804	36:15						136	340			
327.8775	36:15						206	515			
PCB-118											
325.8804	36:26	36:27	-1	1.000	6865	1200	136	340	9		
327.8775	36:26	36:27	-1	1.000	4356	1030	206	515	5	1.58(1.32-1.78)	
PCB-122											
325.8804	36:47						136	340			
327.8775	36:47						206	515			
PCB-114											RQM
325.8804	36:58	36:58	0	1.001	2095	681	136	340	5		
327.8775	36:58	36:58	0	1.001	5812	998	206	515	5	0.36(1.32-1.78)	M
	Empc Correction				1351	439	206	515	2		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-105											
325.8804	37:38						136	340			
327.8775	37:38						206	515			
PCB-127											
325.8804	39:06						136	340			
327.8775	39:06						206	515			
PCB-126											
325.8804	40:42						136	340			
327.8775	40:42						206	515			
PCB-155L											
371.8817	31:15	31:13	2	0.790	2456421	499698	85	212	5879		
373.8788	31:15	31:13	2	0.790	1976394	390239	63	157	6194	1.24(1.05-1.43)	
PCB-153L											
371.8817	38:18	38:17	1	0.900	958861	189470	158	395	1199		
373.8788	38:18	38:17	1	0.900	739779	155532	1357	3392	115	1.30(1.05-1.43)	
PCB-138L											
371.8817	39:33	39:32	1		2965546	568918	158	395	3601		
373.8788	39:33	39:32	1		2330541	451230	1357	3392	333	1.27(1.05-1.43)	
PCB-167L											
371.8817	42:33	42:32	1	1.076	3325236	632868	158	395	4005		
373.8788	42:33	42:32	1	1.076	2600199	504632	1357	3392	372	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:41	43:41	0	1.105	6652120	848151	158	395	5368		
373.8788	43:41	43:41	0	1.105	5181646	669570	1357	3392	493	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:41	43:41	0	1.105	6652120	848151	158	395	5368		
373.8788	43:41	43:41	0	1.105	5181646	669570	1357	3392	493	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:55	46:54	0	1.186	3368320	623764	158	395	3948		
373.8788	46:55	46:54	0	1.186	2627243	492882	1357	3392	363	1.28(1.05-1.43)	
PCB-155											
359.8415	31:16						3	7			
361.8385	31:16						8	20			
PCB-152											
359.8415	31:29						3	7			
361.8385	31:29						8	20			
PCB-150											
359.8415	31:39						3	7			
361.8385	31:39						8	20			
PCB-136											
359.8415	32:00						3	7			
361.8385	32:00						8	20			
PCB-145											
359.8415	32:18						3	7			
361.8385	32:18						8	20			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-148											
359.8415	33:50						3	7			
361.8385	33:50						8	20			
PCB-135											
359.8415	34:23						3	7			
361.8385	34:23						8	20			
PCB-151 (C135)											
359.8415	34:23						3	7			
361.8385	34:23						8	20			
PCB-154											
359.8415	34:40						3	7			
361.8385	34:40						8	20			
PCB-144											
359.8415	34:59						3	7			
361.8385	34:59						8	20			
PCB-147											
359.8415	35:17	35:19	-1	1.129	5301	1232	23	57	54		
361.8385	35:20	35:19	2	1.130	4420	1336	29	72	46	1.20(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:17	35:19	-1	1.129	5301	1232	23	57	54		
361.8385	35:20	35:19	2	1.130	4420	1336	29	72	46	1.20(1.05-1.43)	
PCB-134											
359.8415	35:38						23	57			
361.8385	35:38						29	72			
PCB-143 (C134)											
359.8415	35:38						23	57			
361.8385	35:38						29	72			
PCB-139											
359.8415	35:56						23	57			
361.8385	35:56						29	72			
PCB-140 (C139)											
359.8415	35:56						23	57			
361.8385	35:56						29	72			
PCB-131											
359.8415	36:08						23	57			
361.8385	36:08						29	72			
PCB-142											
359.8415	36:17						23	57			
361.8385	36:17						29	72			
PCB-132											
359.8415	36:37	36:32	3	1.172	1919	548	23	57	24		RQ
361.8385	36:35	36:32	2	1.171	2345	506	29	72	17	0.82(1.05-1.43)	
Empc Correction					1547	441	29	72	15		
PCB-133											
359.8415	37:06						23	57			
361.8385	37:06						29	72			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-165											
359.8415	37:28						23	57			
361.8385	37:28						29	72			
PCB-146											
359.8415	37:43						23	57			
361.8385	37:43						29	72			
PCB-161											
359.8415	37:51						23	57			
361.8385	37:51						29	72			
PCB-153											
359.8415	38:20	38:19	-1	0.901	5446	832	23	57	36		RQ
	Empc Correction				4224	1166	23	57	51		
361.8385	38:20	38:19	0	0.901	3407	941	29	72	32	1.60(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:20	38:19	-1	0.901	5446	832	23	57	36		RQ
	Empc Correction				4224	1166	23	57	51		
361.8385	38:20	38:19	0	0.901	3407	941	29	72	32	1.60(1.05-1.43)	
PCB-141											
359.8415	38:30	38:31	-1	0.905	1920	444	23	57	19		RQ
	Empc Correction				1271	422	23	57	18		
361.8385	38:33	38:31	2	0.906	1025	341	29	72	12	1.87(1.05-1.43)	
PCB-130											
359.8415	38:55						23	57			
361.8385	38:55						29	72			
PCB-137											
359.8415	39:09						23	57			
361.8385	39:09						29	72			
PCB-164											
359.8415	39:16						23	57			
361.8385	39:16						29	72			
PCB-129											
359.8415	39:32	39:32	-3	0.929	4646	975	23	57	42		RQM
	Empc Correction				2778	524	23	57	23		M
361.8385	39:33	39:32	-2	0.930	2241	423	29	72	15	2.07(1.05-1.43)	
PCB-138 (C129)											
359.8415	39:32	39:32	-3	0.929	4646	975	23	57	42		RQM
	Empc Correction				2778	524	23	57	23		M
361.8385	39:33	39:32	-2	0.930	2241	423	29	72	15	2.07(1.05-1.43)	
PCB-160 (C129)											
359.8415	39:32	39:32	-3	0.929	4646	975	23	57	42		RQM
	Empc Correction				2778	524	23	57	23		M
361.8385	39:33	39:32	-2	0.930	2241	423	29	72	15	2.07(1.05-1.43)	
PCB-163 (C129)											
359.8415	39:32	39:32	-3	0.929	4646	975	23	57	42		RQM
	Empc Correction				2778	524	23	57	23		M
361.8385	39:33	39:32	-2	0.930	2241	423	29	72	15	2.07(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-158											
359.8415	39:57						23	57			
361.8385	39:57						29	72			
PCB-128											
359.8415	40:51	40:48	3	0.960	706	225	23	57	10	0.61(1.05-1.43)	RQ
361.8385	40:49	40:48	1	0.959	1150	286	29	72	10		
Empc Correction				569	181	29	72	6			
PCB-166 (C128)											
359.8415	40:51	40:48	3	0.960	706	225	23	57	10	0.61(1.05-1.43)	RQ
361.8385	40:49	40:48	1	0.959	1150	286	29	72	10		
Empc Correction				569	181	29	72	6			
PCB-159											
359.8415	41:49						23	57			
361.8385	41:49						29	72			
PCB-162											
359.8415	42:06						23	57			
361.8385	42:06						29	72			
PCB-167											
359.8415	42:34						23	57			
361.8385	42:34						29	72			
PCB-156											
359.8415	43:40	43:42	-3	0.999	900	342	23	57	15	1.37(1.05-1.43)	
361.8385	43:38	43:42	-4	0.999	659	317	29	72	11		
PCB-157 (C156)											
359.8415	43:40	43:42	-3	0.999	900	342	23	57	15	1.37(1.05-1.43)	
361.8385	43:38	43:42	-4	0.999	659	317	29	72	11		
PCB-169											
359.8415	46:56						23	57			
361.8385	46:56						29	72			
PCB-188L											
405.8428	36:57	36:56	0	0.819	2645832	523496	85	212	6159	1.08(0.89-1.21)	
407.8398	36:57	36:56	0	0.819	2442554	479472	76	190	6309		
PCB-178L											
405.8428	40:01	39:59	1	0.887	1821889	347358	85	212	4087	1.06(0.89-1.21)	
407.8398	40:00	39:59	0	0.887	1711948	326744	76	190	4299		
PCB-180L											
405.8428	45:05	45:04	1		2126698	408230	85	212	4803	1.07(0.89-1.21)	
407.8398	45:05	45:04	1		1991275	379796	76	190	4997		
PCB-170L											
405.8428	46:20	46:20	0	1.028	1682955	322850	85	212	3798	1.04(0.89-1.21)	
407.8398	46:20	46:20	0	1.028	1610773	307892	76	190	4051		
PCB-189L											
405.8428	49:26	49:26	0	1.097	4067525	754214	717	1792	1052	1.05(0.89-1.21)	
407.8398	49:26	49:26	0	1.097	3881299	728916	532	1330	1370		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188											
393.8025	36:58						8	20			
395.7995	36:58						1	2			
PCB-179											
393.8025	37:19						8	20			
395.7995	37:19						1	2			
PCB-184											
393.8025	37:49						8	20			
395.7995	37:49						1	2			
PCB-176											
393.8025	38:09						8	20			
395.7995	38:09						1	2			
PCB-186											
393.8025	38:39						8	20			
395.7995	38:39						1	2			
PCB-178											
393.8025	40:01						8	20			
395.7995	40:01						1	2			
PCB-175											
393.8025	40:39						8	20			
395.7995	40:39						1	2			
PCB-187											
393.8025	40:55						8	20			
395.7995	40:55						1	2			
PCB-182											
393.8025	41:08						8	20			
395.7995	41:08						1	2			
PCB-183											
393.8025	41:35	41:32	3	1.126	619	190	8	20	24		RQM
395.7995	41:32	41:32	0	1.124	1470	583	1	2	583	0.42(0.89-1.21)	M
Empc Correction					589	180	1	2	180		
PCB-185 (C183)											
393.8025	41:35	41:32	3	1.126	619	190	8	20	24		RQM
395.7995	41:32	41:32	0	1.124	1470	583	1	2	583	0.42(0.89-1.21)	M
Empc Correction					589	180	1	2	180		
PCB-174											
393.8025	41:48	41:47	1	1.131	533	234	8	20	29		
395.7995	41:48	41:47	1	1.131	527	248	1	2	248	1.01(0.89-1.21)	
PCB-177											
393.8025	42:12						8	20			
395.7995	42:12						1	2			
PCB-181											
393.8025	42:36						8	20			
395.7995	42:36						1	2			
PCB-171											
393.8025	42:49	42:50	0	1.159	237	123	8	20	15		RQ
Empc Correction					58	27	8	20	3		
395.7995	42:50	42:50	1	1.159	56	26	1	2	26	4.23(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-173 (C171)											RQ
393.8025	42:49	42:50	0	1.159	237	123	8	20	15		
	Empc Correction				58	27	8	20	3		
395.7995	42:50	42:50	1	1.159	56	26	1	2	26	4.23(0.89-1.21)	
PCB-172											
393.8025	44:28						8	20			
395.7995	44:28						1	2			
PCB-192											RQ
393.8025	44:41	44:44	-3	0.904	842	227	8	20	28		
	Empc Correction				101	55	8	20	7		
395.7995	44:45	44:44	1	0.905	97	53	1	2	53	8.68(0.89-1.21)	
PCB-180											RQ
393.8025	45:04	45:07	0	0.912	1528	280	8	20	35		
	Empc Correction				1250	490	8	20	61		
395.7995	45:06	45:07	1	0.912	1191	467	1	2	467	1.28(0.89-1.21)	
PCB-193 (C180)											RQ
393.8025	45:04	45:07	0	0.912	1528	280	8	20	35		
	Empc Correction				1250	490	8	20	61		
395.7995	45:06	45:07	1	0.912	1191	467	1	2	467	1.28(0.89-1.21)	
PCB-191											
393.8025	45:28						8	20			
395.7995	45:28						1	2			
PCB-170											RQ
393.8025	46:22	46:23	1	0.938	1231	304	8	20	38		
	Empc Correction				573	236	8	20	30		
395.7995	46:23	46:23	1	0.938	546	225	1	2	225	2.25(0.89-1.21)	
PCB-190											
393.8025	46:52						8	20			
395.7995	46:52						1	2			
PCB-189											
393.8025	49:28						219	547			
395.7995	49:28						36	90			
PCB-202L											
439.8038	42:19	42:18	0	0.821	1795620	346350	46	115	7529		
441.8008	42:19	42:18	0	0.821	2013917	392893	51	127	7704	0.89(0.76-1.02)	
PCB-194L											
439.8038	51:33	51:33	0		2728137	493508	148	370	3335		
441.8008	51:33	51:33	0		2948577	540331	124	310	4358	0.93(0.76-1.02)	
PCB-205L											
439.8038	52:01	52:00	0	1.009	2970223	537651	148	370	3633		
441.8008	52:01	52:00	0	1.009	3267448	596627	124	310	4812	0.91(0.76-1.02)	
PCB-202											
427.7635	42:20						9	22			
429.7606	42:20						5	12			
PCB-201											
427.7635	43:15						9	22			
429.7606	43:15						5	12			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-204											
427.7635	43:55						9	22			
429.7606	43:55						5	12			
PCB-197											
427.7635	44:09						9	22			
429.7606	44:09						5	12			
PCB-200											
427.7635	44:15						9	22			
429.7606	44:15						5	12			
PCB-198											
427.7635	47:02						9	22			
429.7606	47:02						5	12			
PCB-199 (C198)											
427.7635	47:02						9	22			
429.7606	47:02						5	12			
PCB-196											
427.7635	47:43	47:42	0	0.917	982	312	9	22	35		RQ
429.7606	47:43	47:42	0	0.917	1510	570	5	12	114	0.65(0.76-1.02)	
Empc Correction					1103	350	5	12	70		
PCB-203											
427.7635	47:54						9	22			
429.7606	47:54						5	12			
PCB-195											
427.7635	49:13						71	177			
429.7606	49:13						13	32			
PCB-194											
427.7635	51:35						71	177			
429.7606	51:35						13	32			
PCB-205											
427.7635	52:02						71	177			
429.7606	52:02						13	32			
PCB-208L											
473.7648	48:58	48:58	-1	0.950	2475563	455392	697	1742	653		
475.7619	48:58	48:58	-1	0.950	3096882	579795	910	2275	637	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:46	53:45	0	1.043	1726233	305827	697	1742	439		
475.7619	53:46	53:45	0	1.043	2195669	396612	910	2275	436	0.79(0.65-0.89)	
PCB-208											
461.7246	48:59						49	122			
463.7216	48:59						266	665			
PCB-207											
461.7246	49:55						49	122			
463.7216	49:55						266	665			
PCB-206											
461.7246	53:47						49	122			
463.7216	53:47						266	665			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-209L											
507.7258	55:23	55:22	1	1.075	1728014	296980	95	237	3126		
509.7229	55:23	55:22	0	1.074	2389326	406246	63	157	6448	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:25						8	20			
497.6826	55:25						11	27			

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

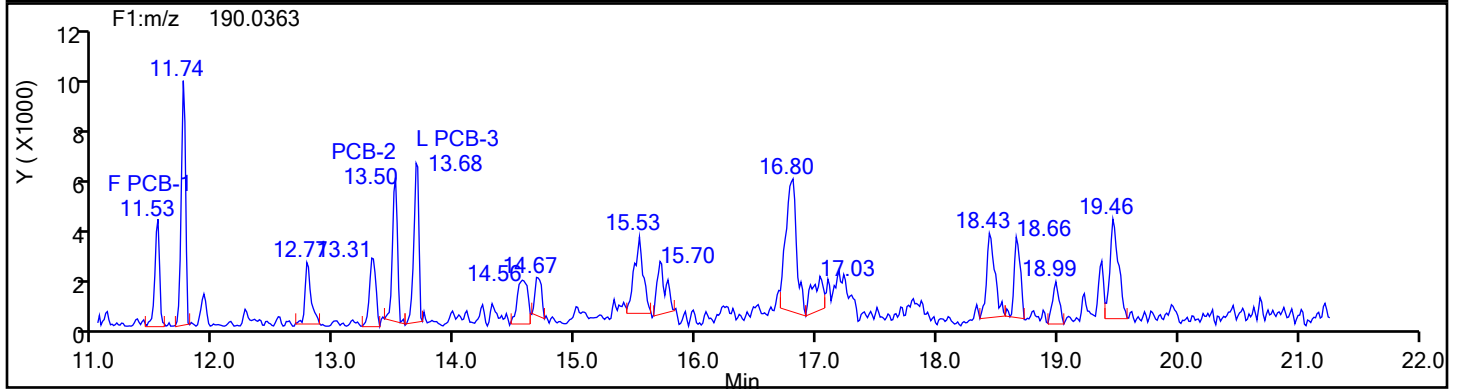
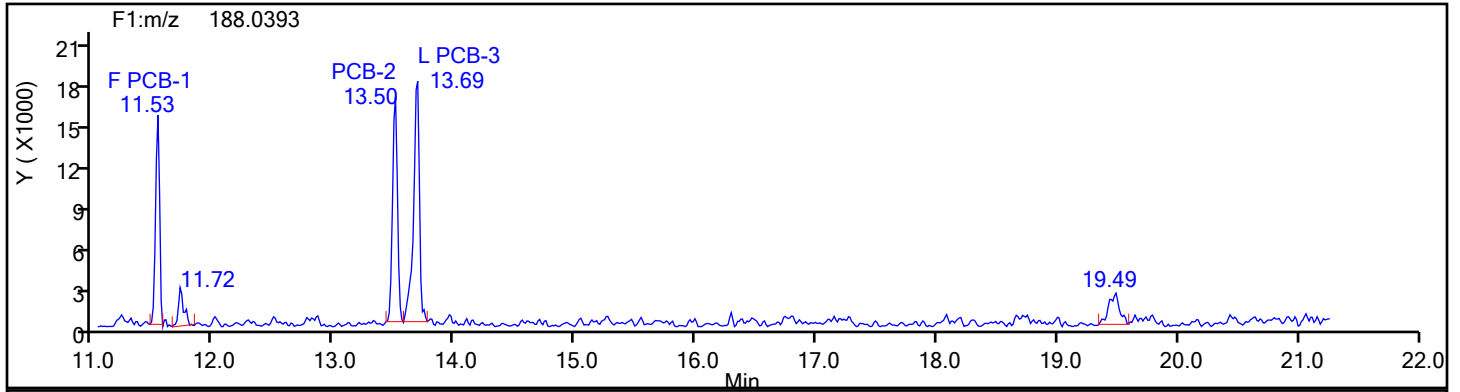
M - Manually Integrated

U - Marked Undetected

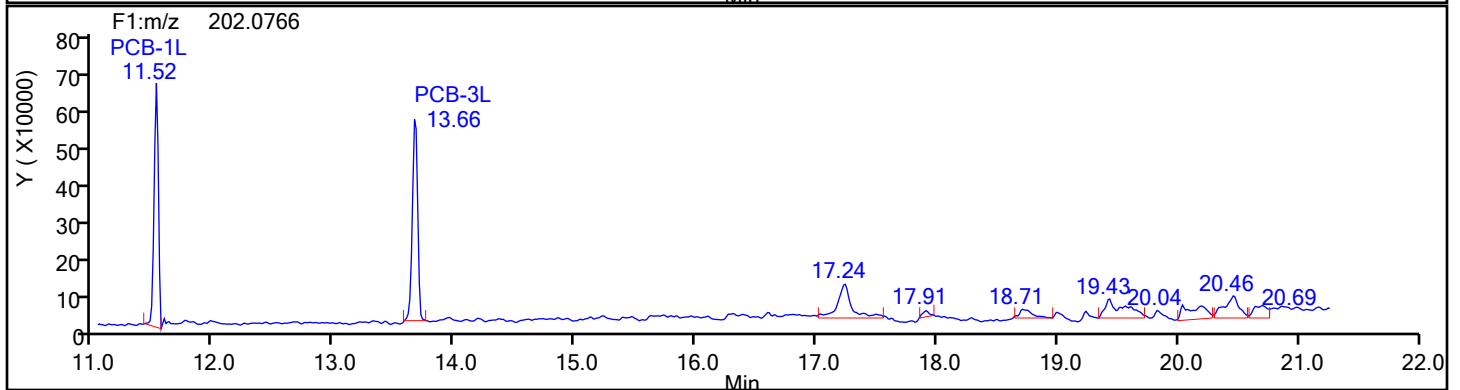
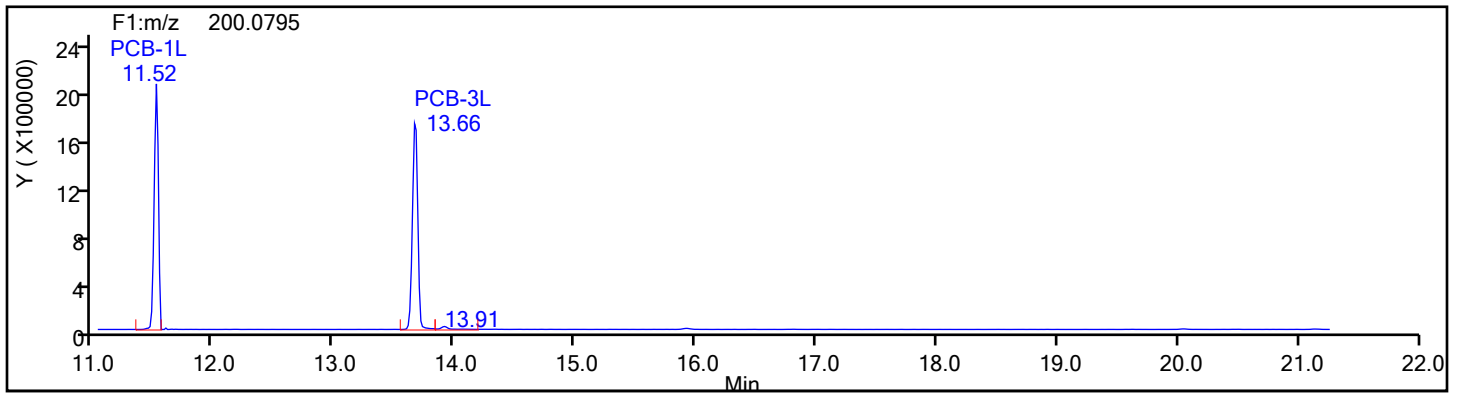
a - User Assigned ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

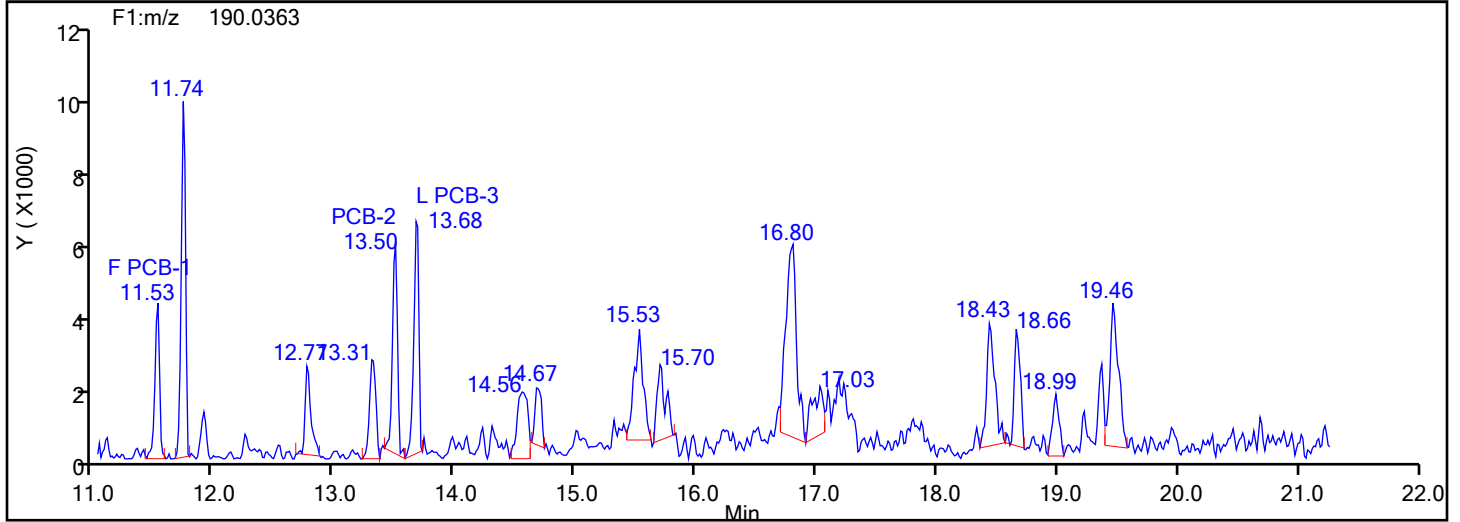
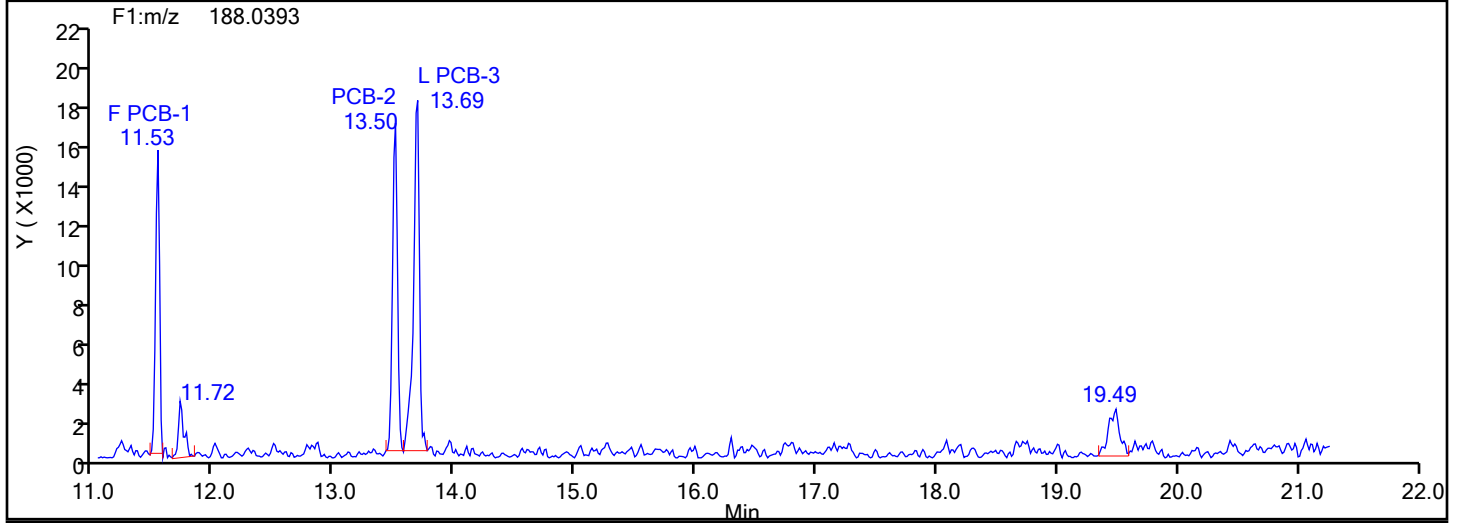


MoPCB F1 Standards

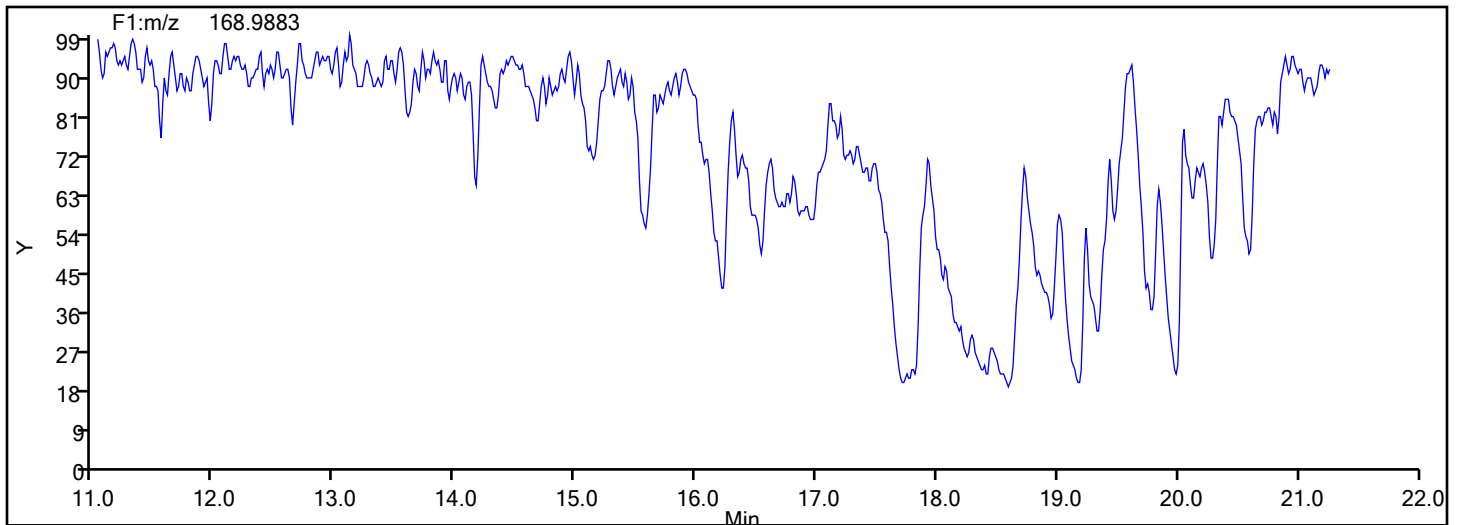


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d

Injection Date: 12-Jun-2024 06:37:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

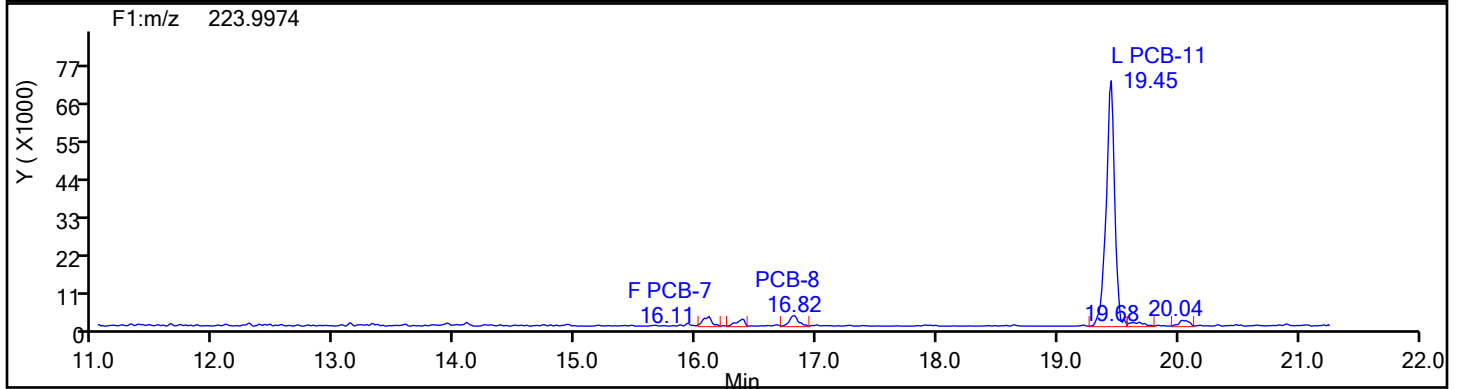
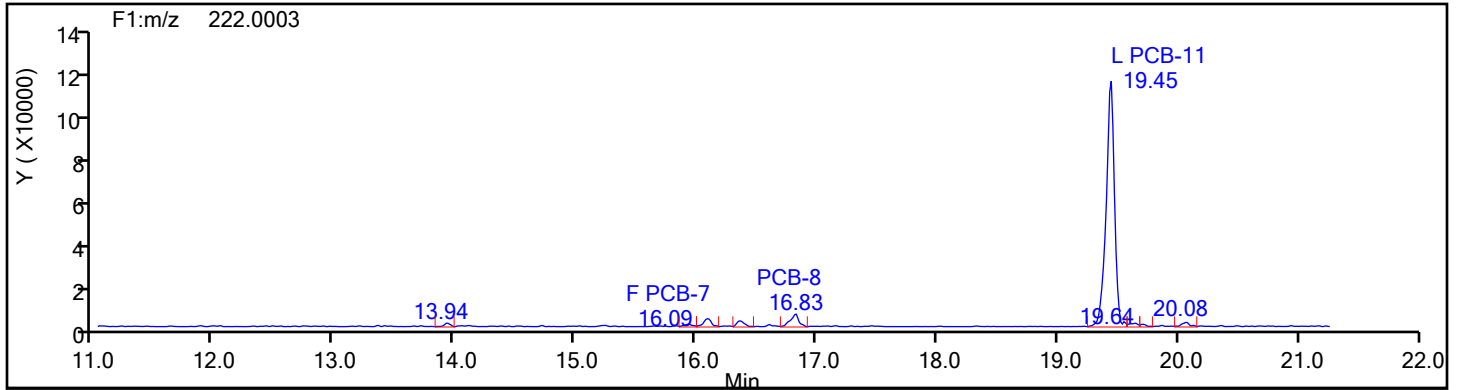
Worklist#: 87536

Sample Line#: 12

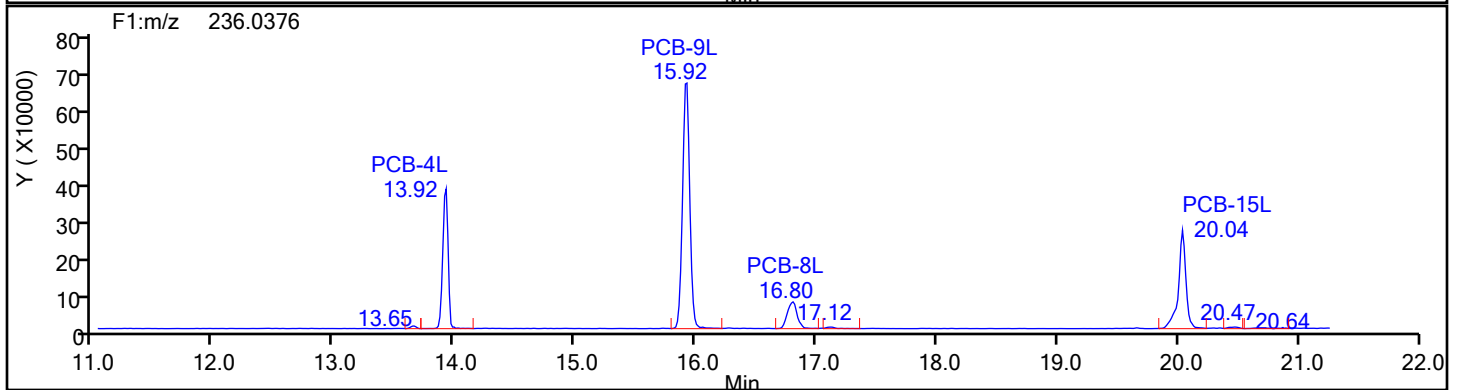
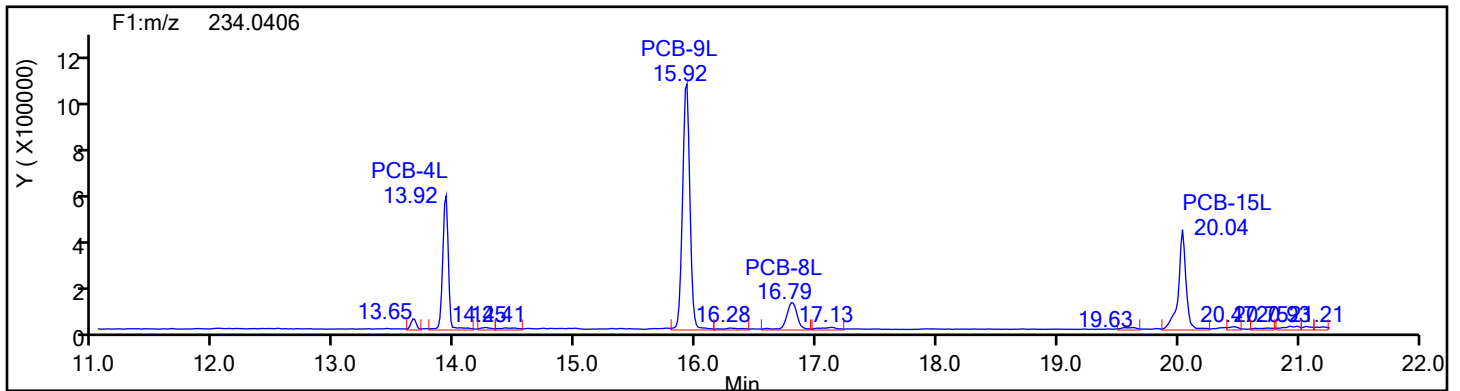
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1

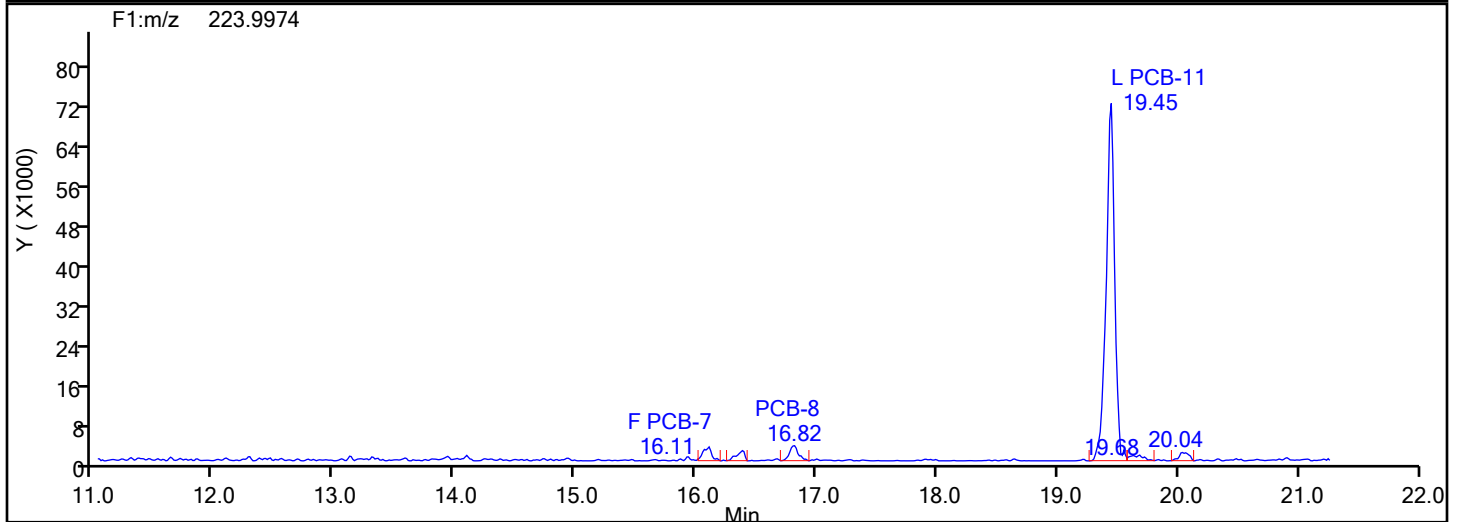
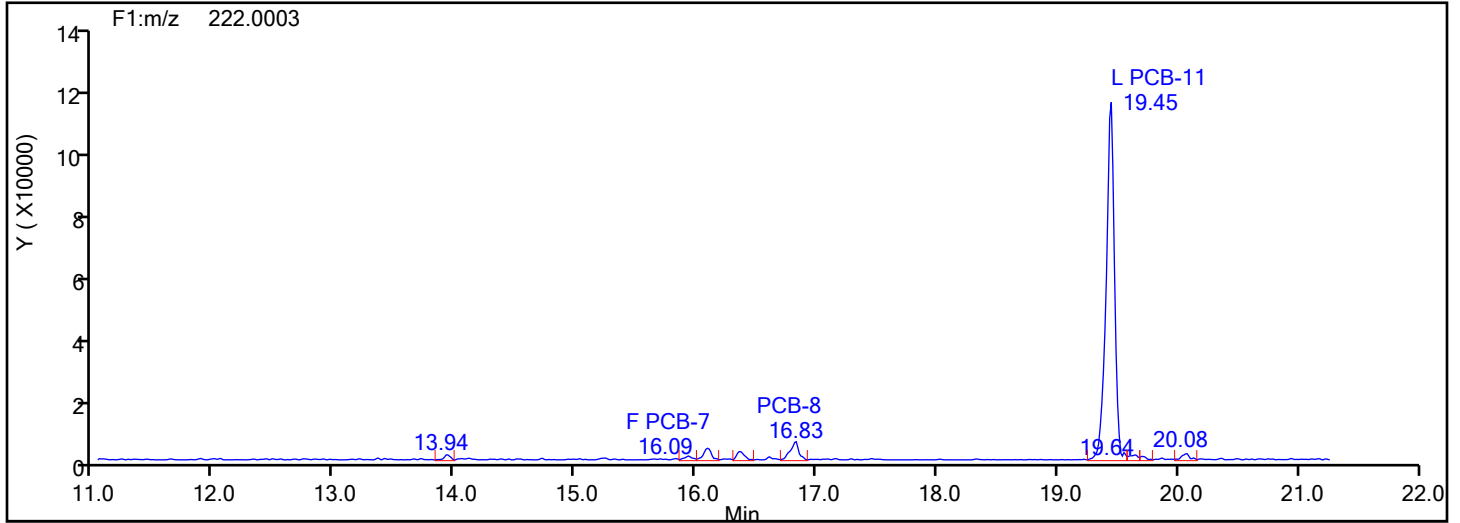


DiPCB F1 Standards

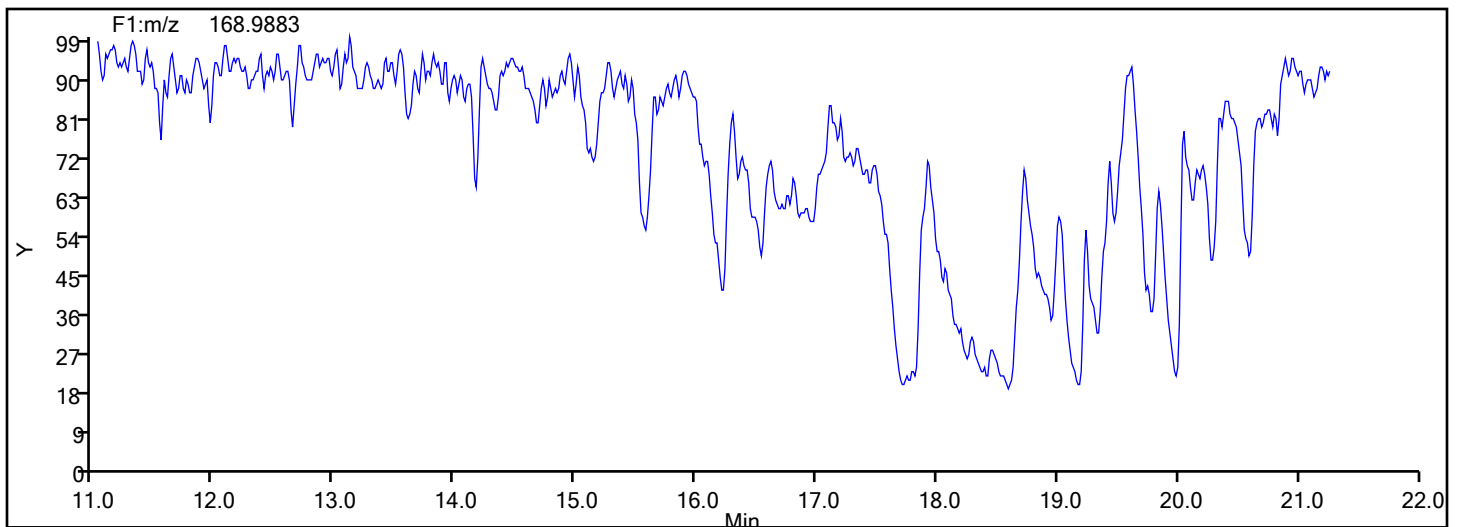


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

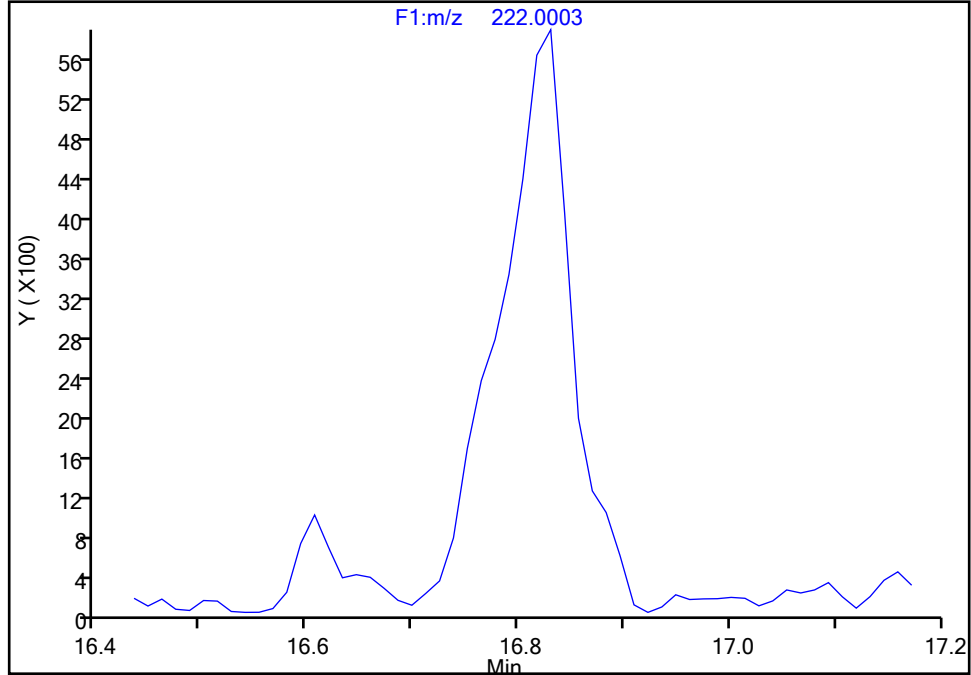
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Injection Date: 12-Jun-2024 06:37:00 Instrument ID: D2D
Lims ID: 140-36689-A-7-C Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

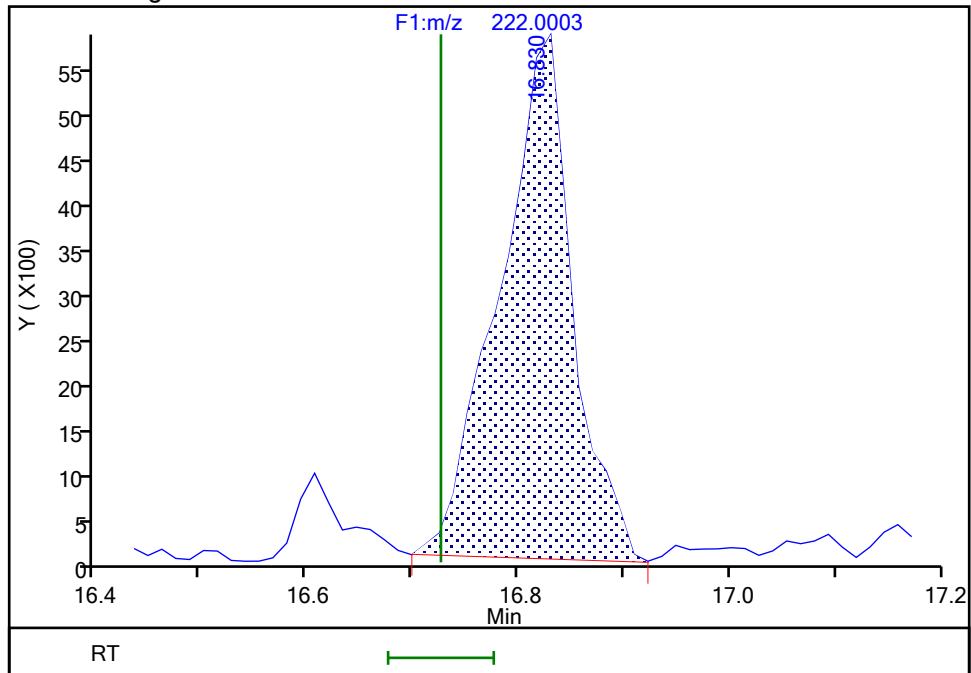
Not Detected
Expected RT: 16.73

Processing Integration Results



RT: 16.83
Area: 27674
Amount: 0.902346
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 15:35:00 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

Eurofins Knoxville

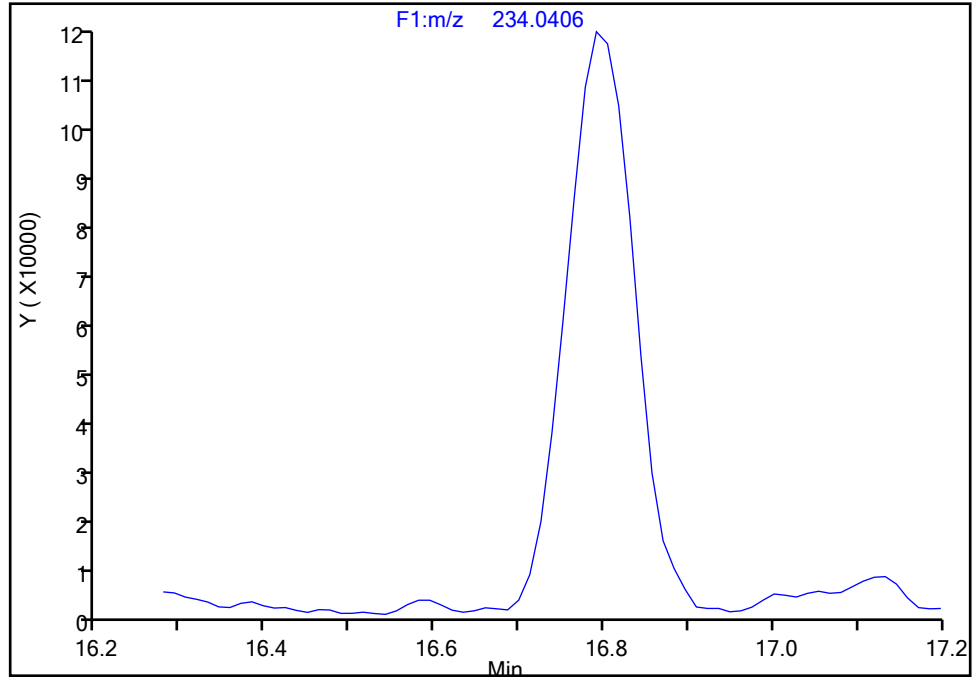
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Injection Date: 12-Jun-2024 06:37:00 Instrument ID: D2D
Lims ID: 140-36689-A-7-C Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

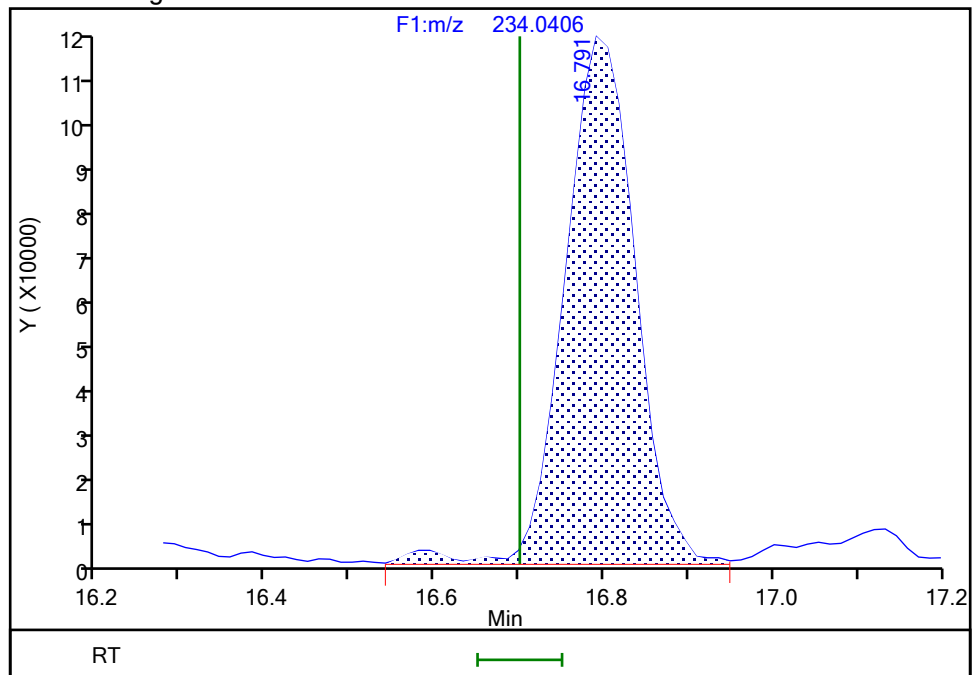
Not Detected
Expected RT: 16.70

Processing Integration Results



RT: 16.79
Area: 668453
Amount: 29.657034
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 15:34:24 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

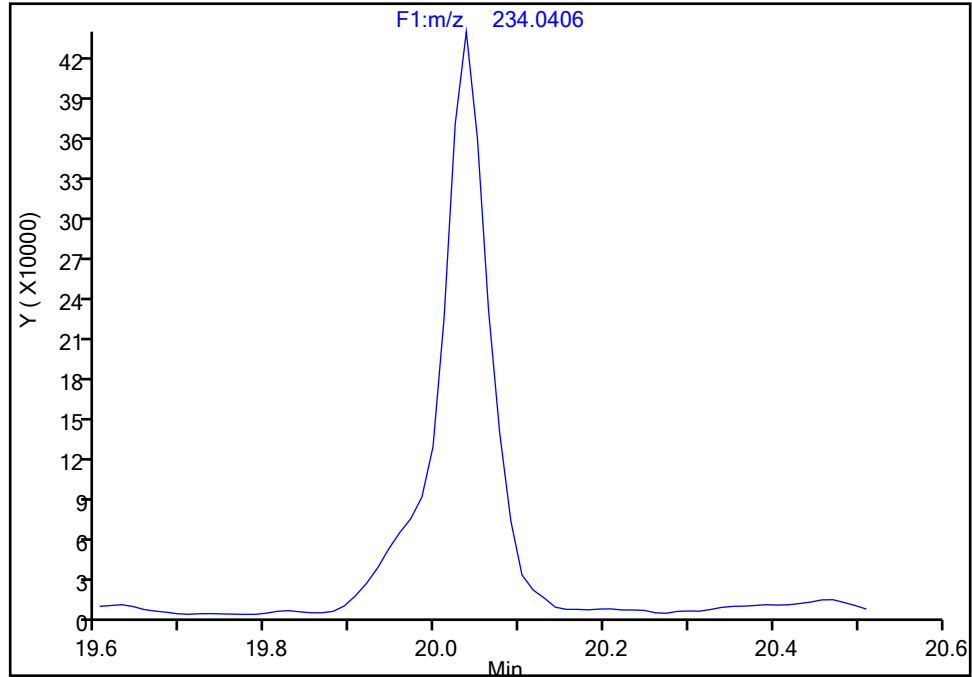
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Injection Date: 12-Jun-2024 06:37:00 Instrument ID: D2D
Lims ID: 140-36689-A-7-C Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-15L, CAS: 208263-67-6

Signal: 1

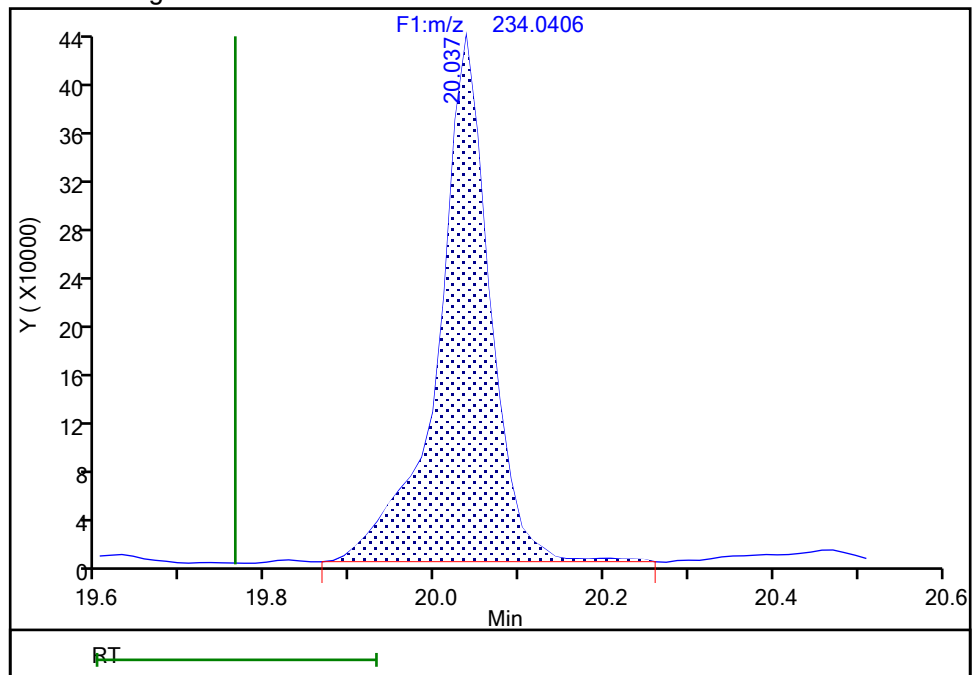
Not Detected
Expected RT: 19.76

Processing Integration Results



RT: 20.04
Area: 1842231
Amount: 38.153799
Amount Units: pg/ul

Manual Integration Results



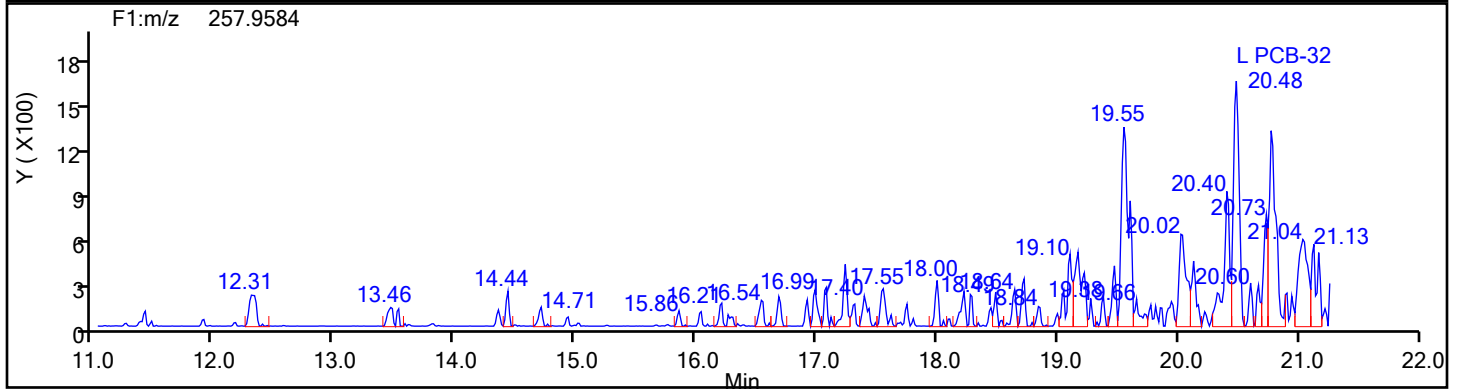
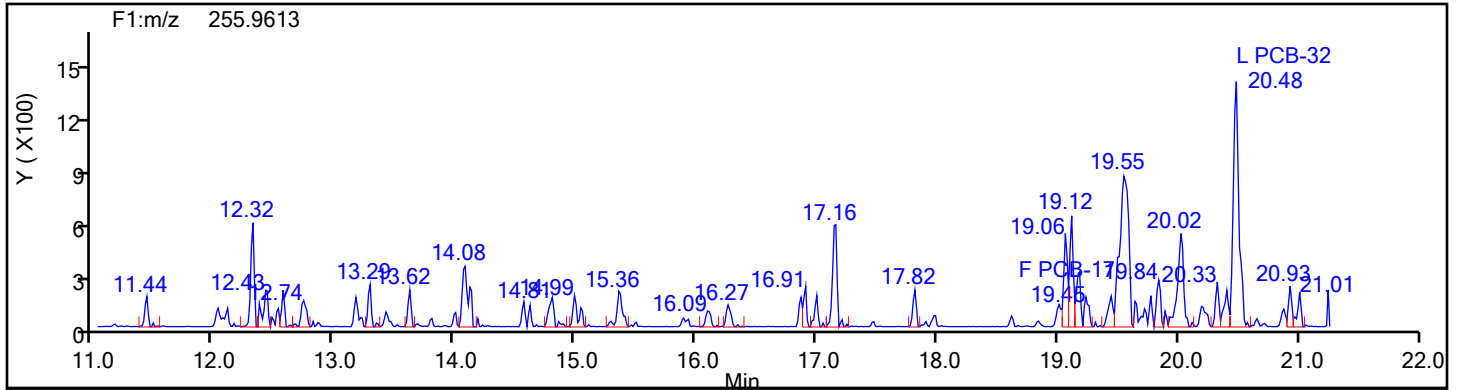
Reviewer: P0IK, 12-Jun-2024 15:34:30 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

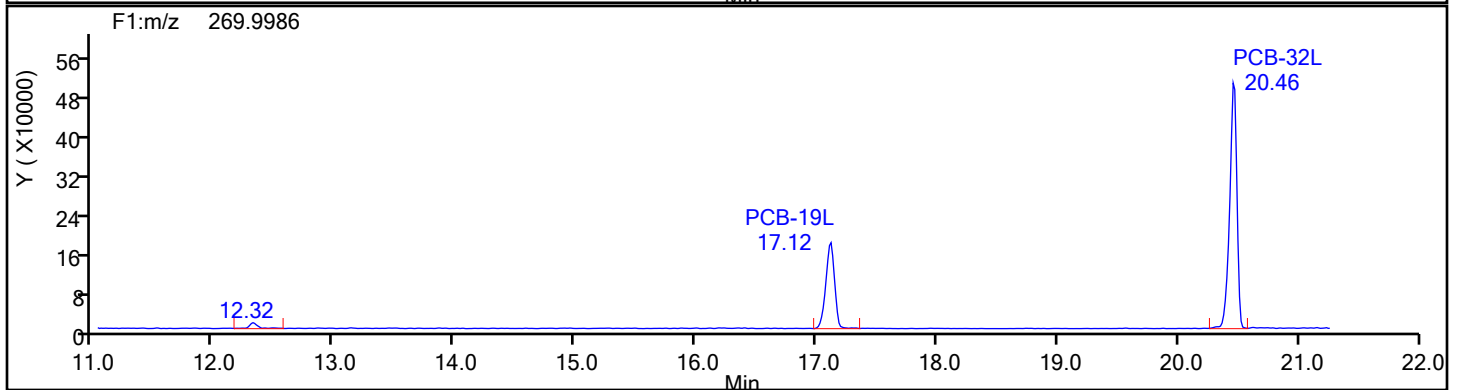
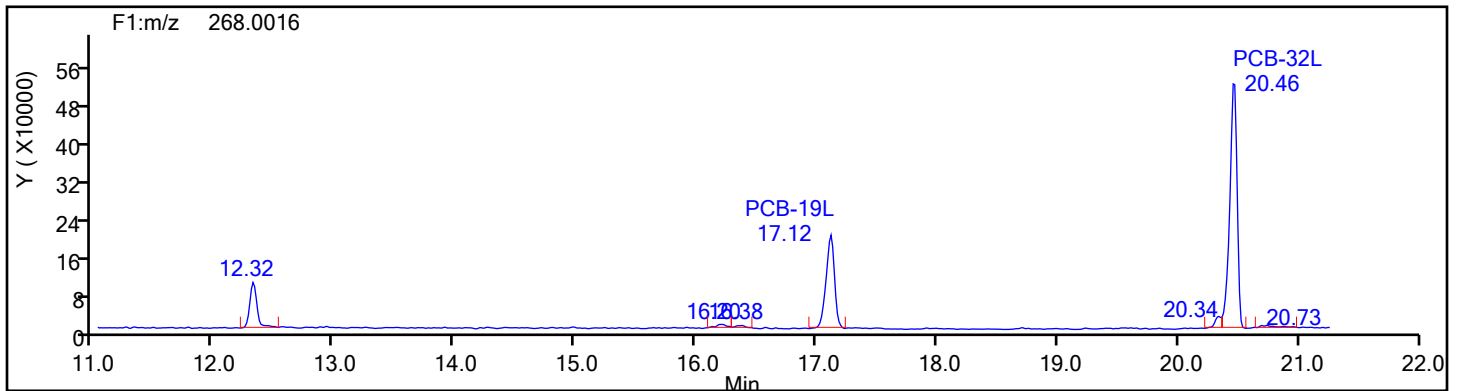
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d

Injection Date: 12-Jun-2024 06:37:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

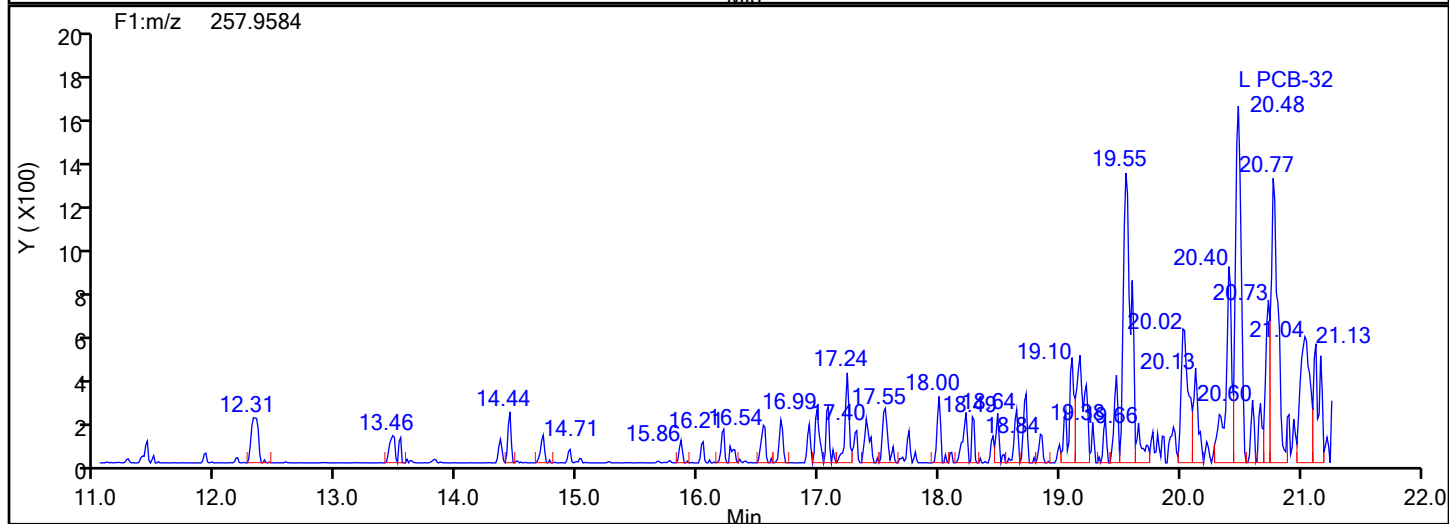
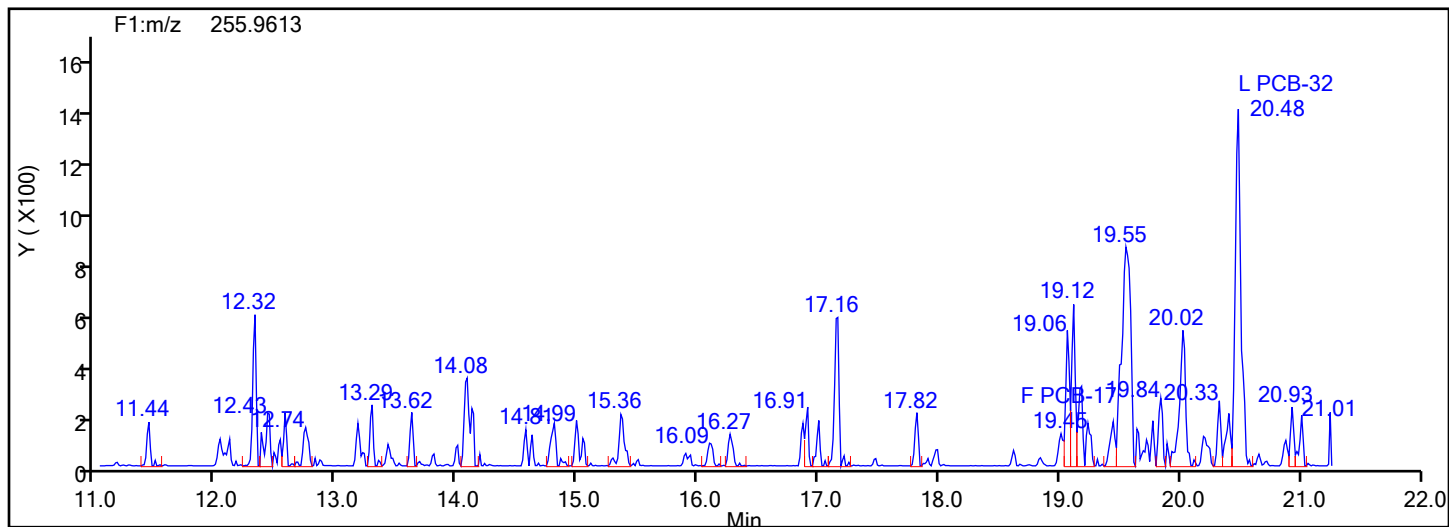
Worklist#: 87536

Sample Line#: 12

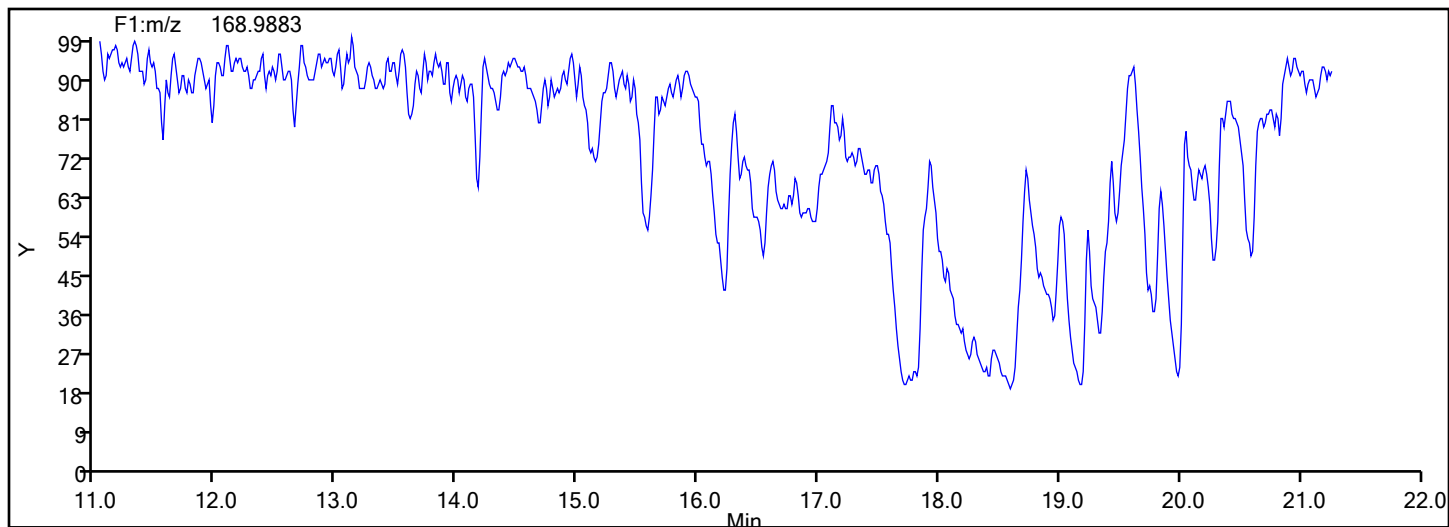
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1

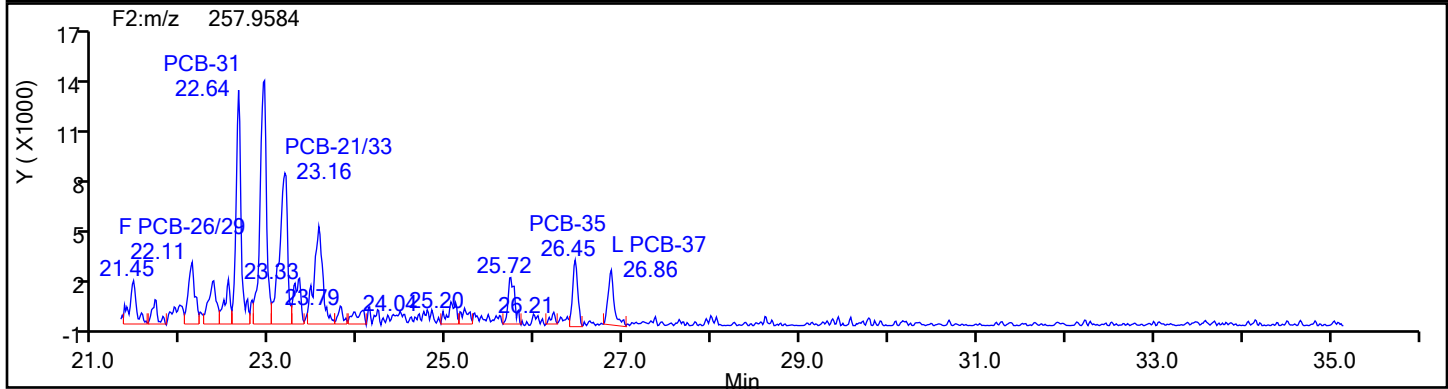
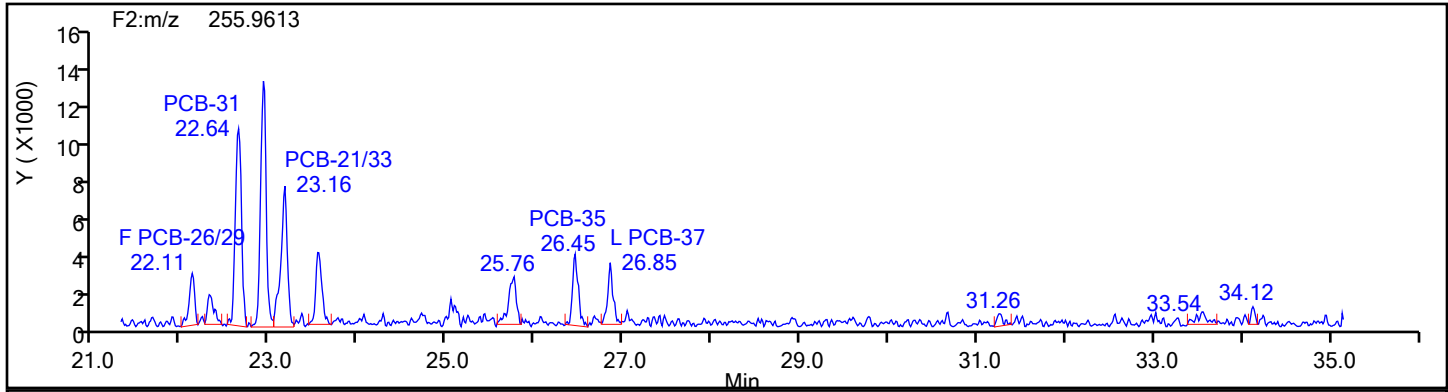


TriPCB F1 Lock Mass

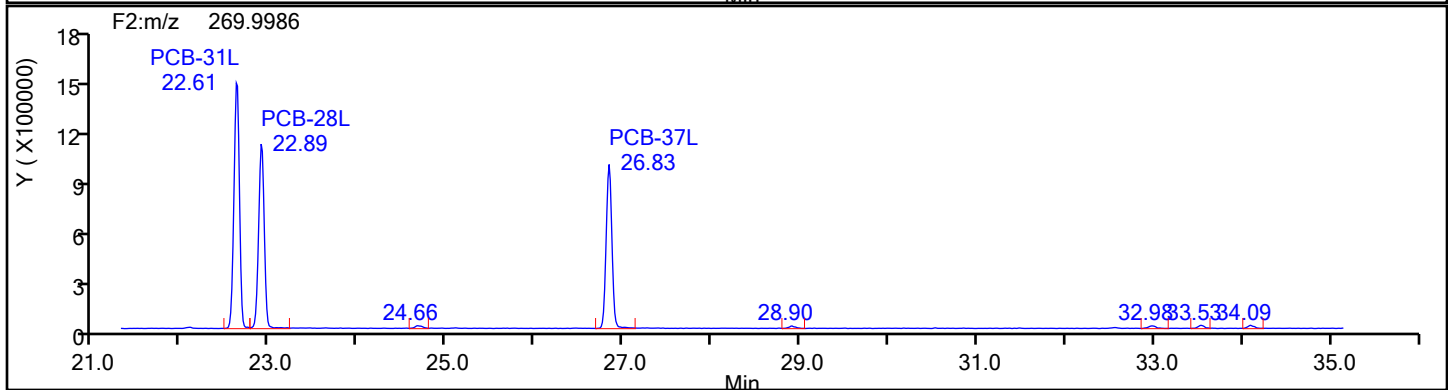
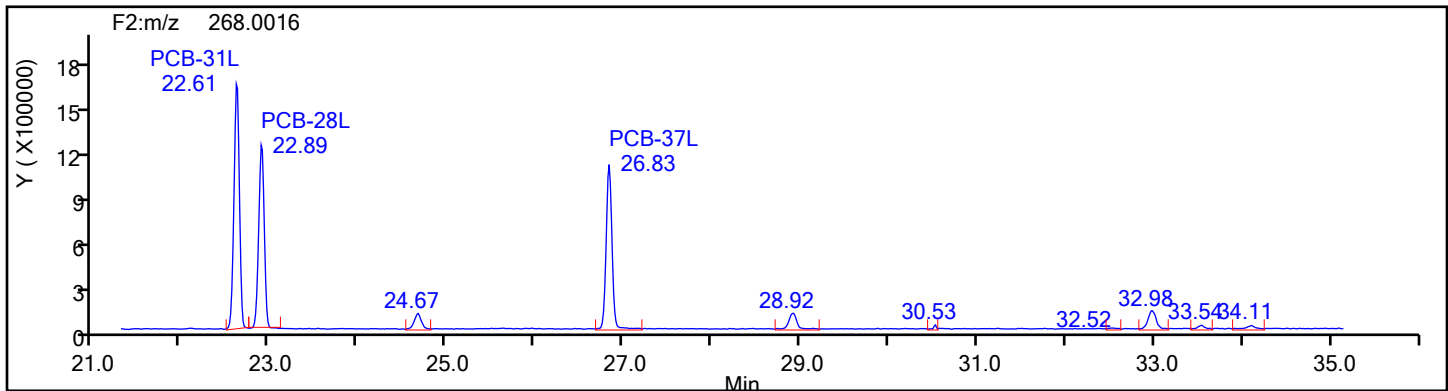


Eurofins Knoxville

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Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d

Injection Date: 12-Jun-2024 06:37:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

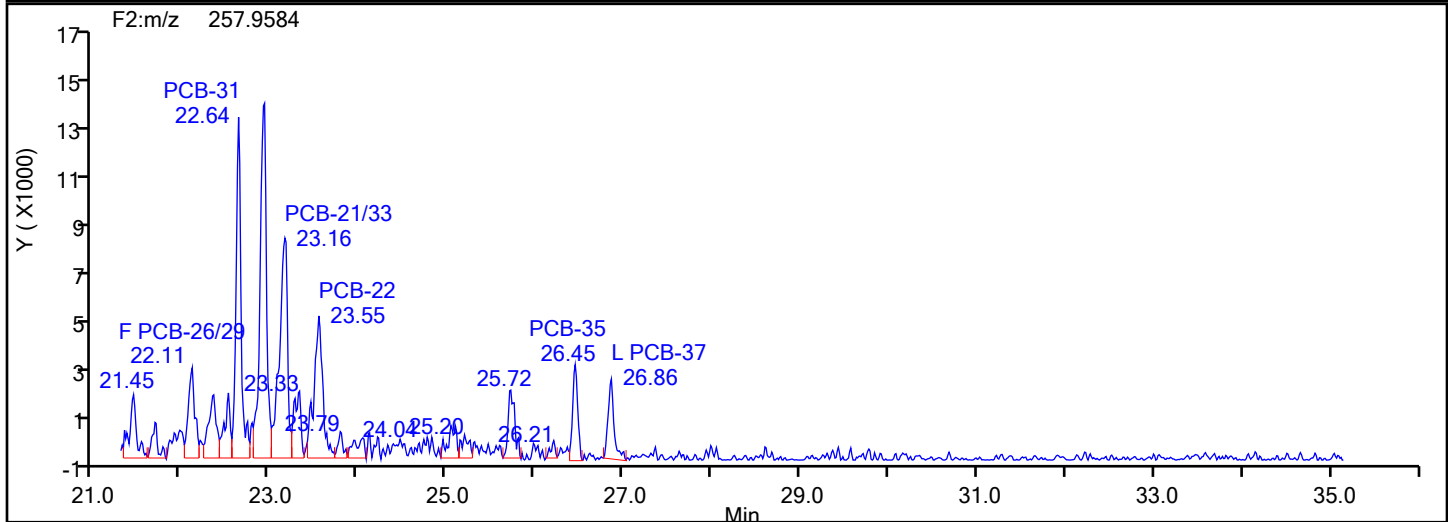
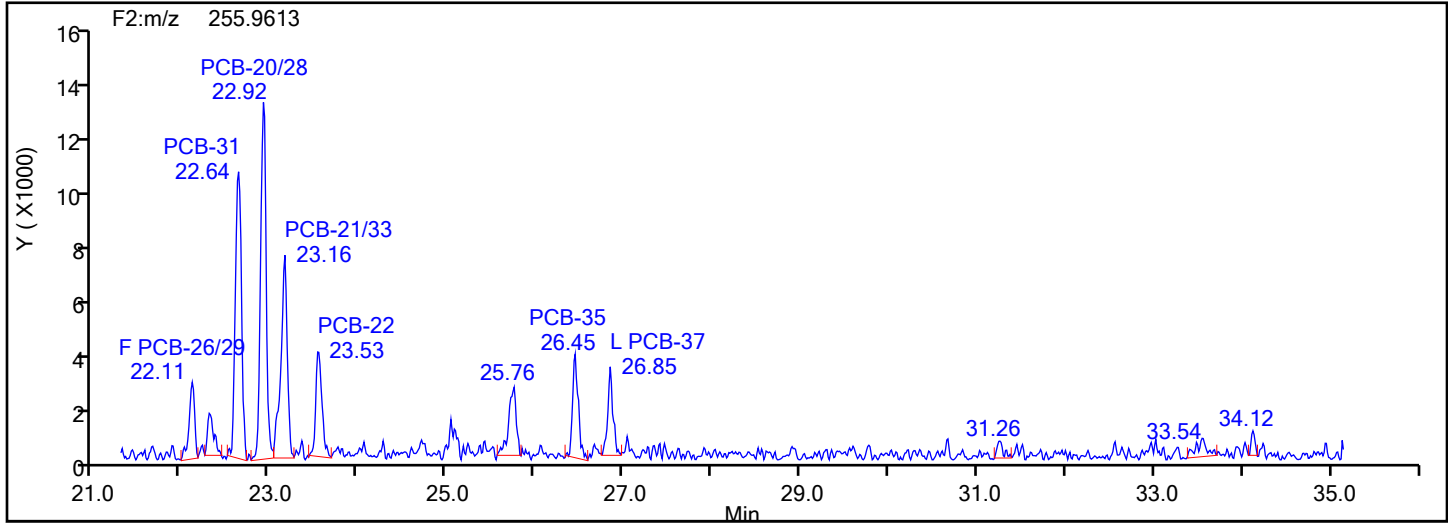
Worklist#: 87536

Sample Line#: 12

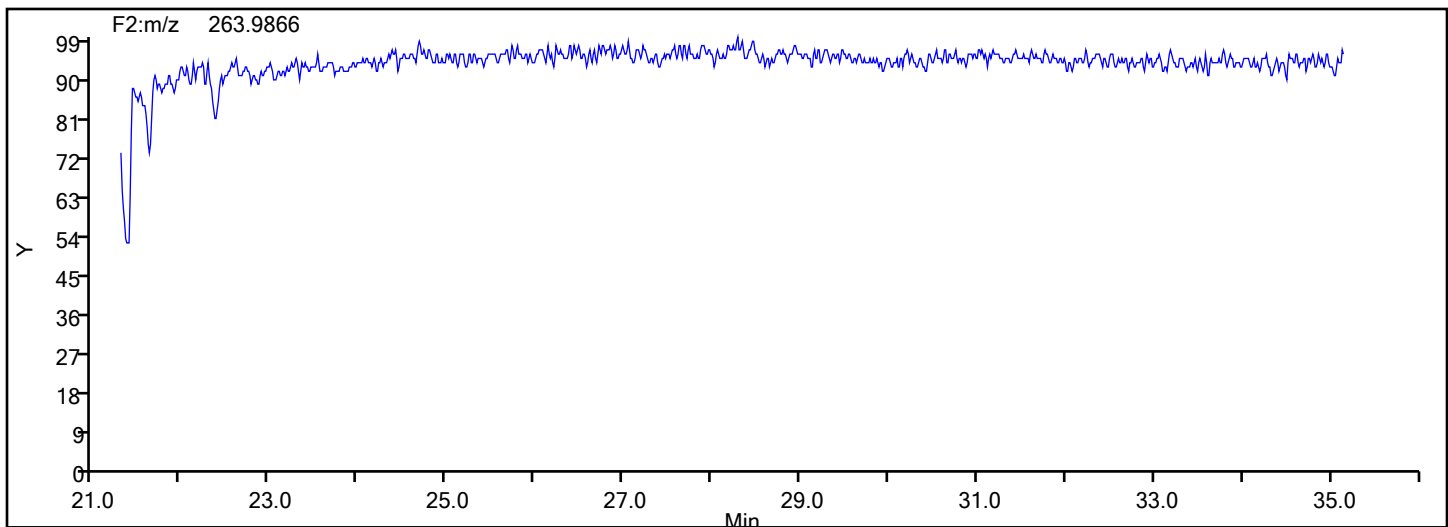
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

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Injection Date: 12-Jun-2024 06:37:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

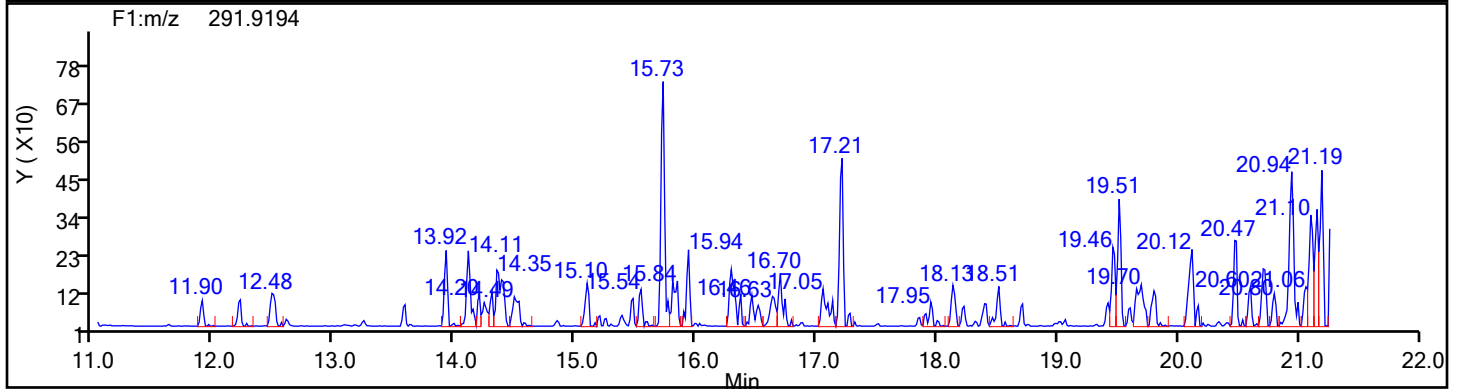
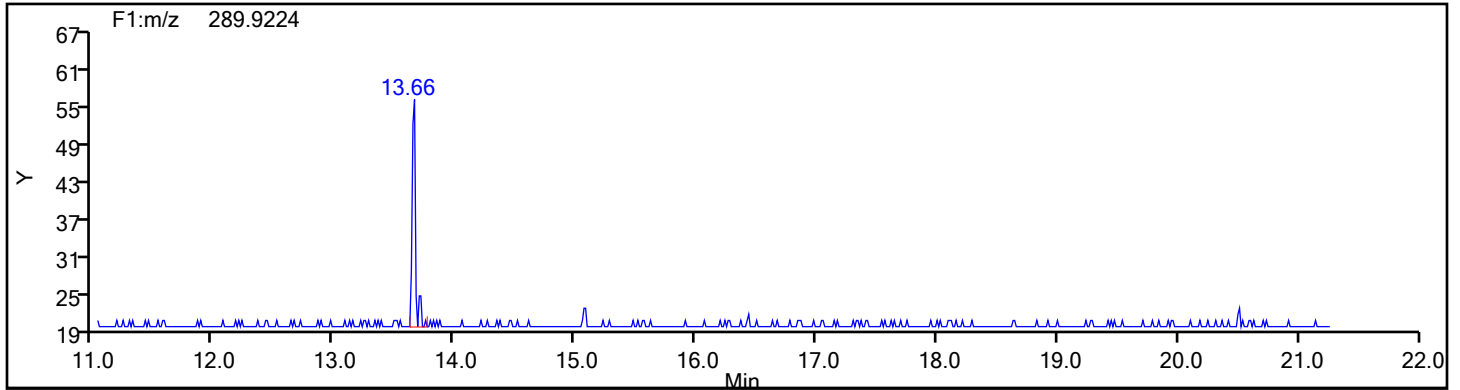
Worklist#: 87536

Sample Line#: 12

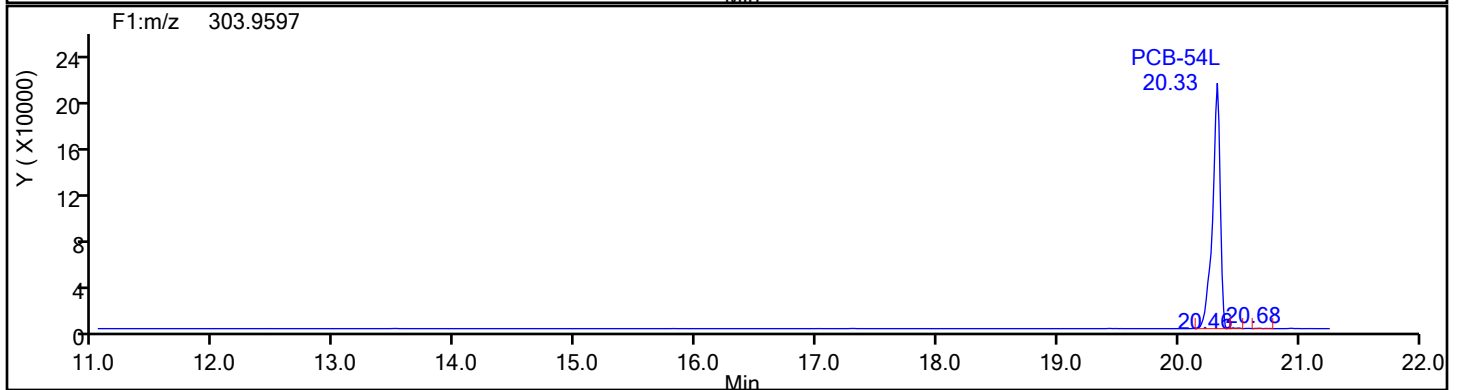
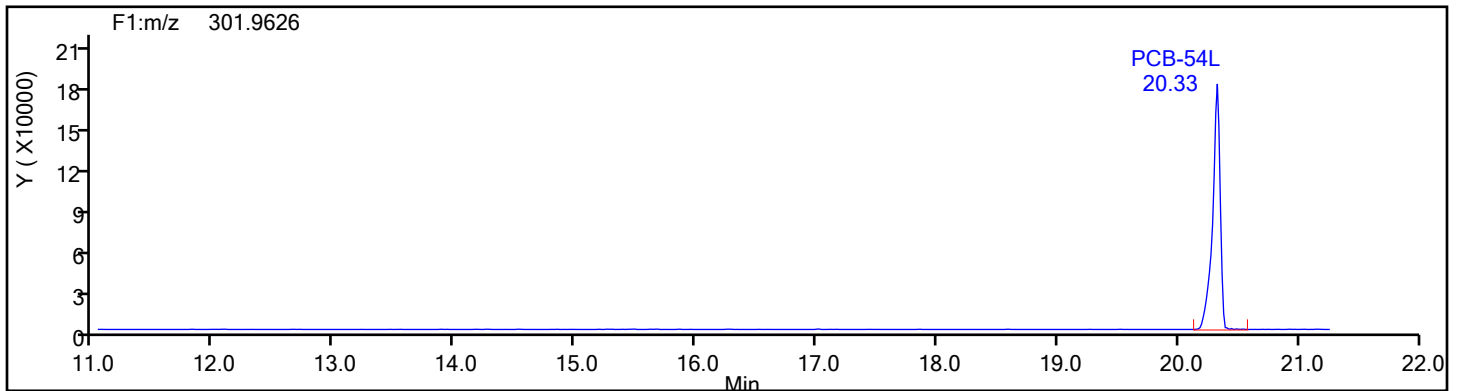
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d

Injection Date: 12-Jun-2024 06:37:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

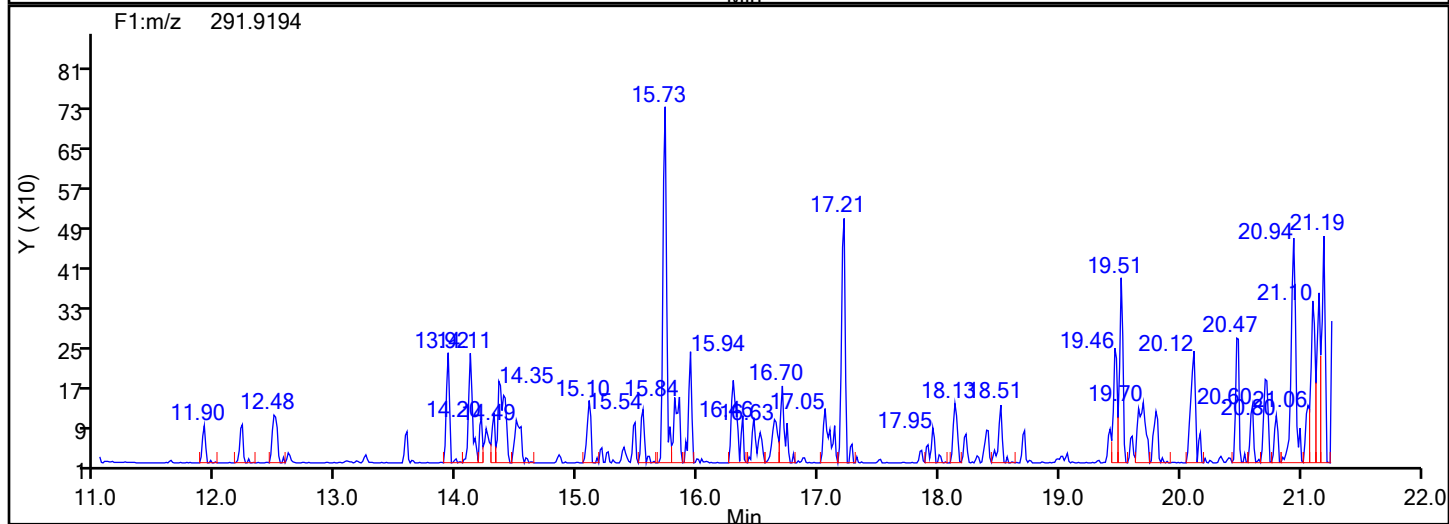
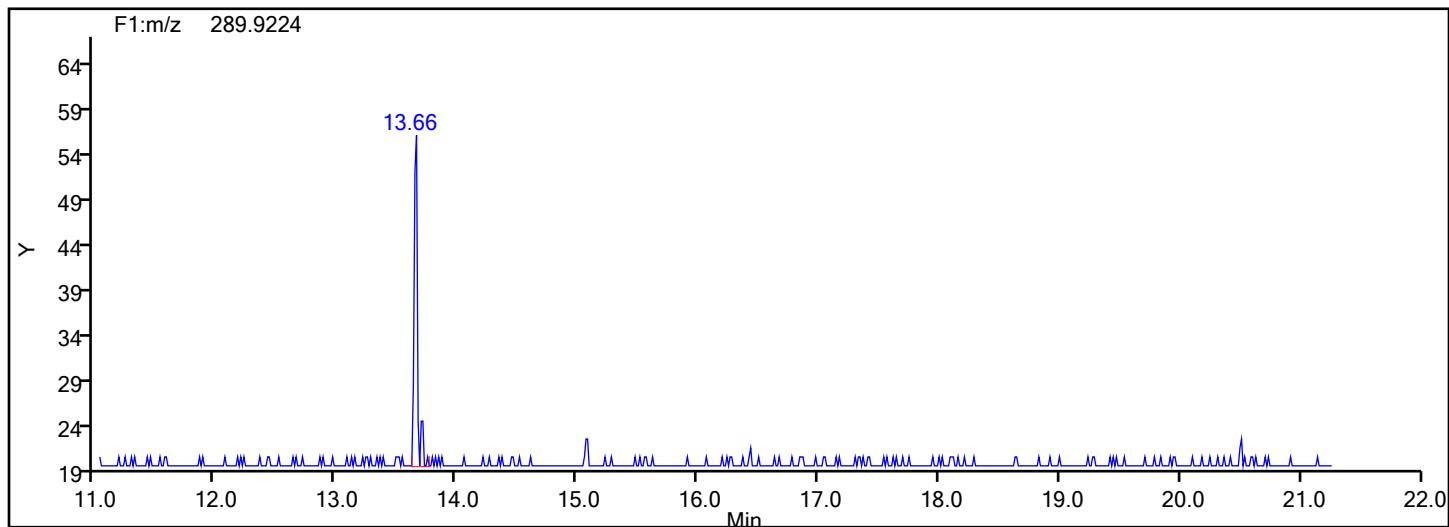
Worklist#: 87536

Sample Line#: 12

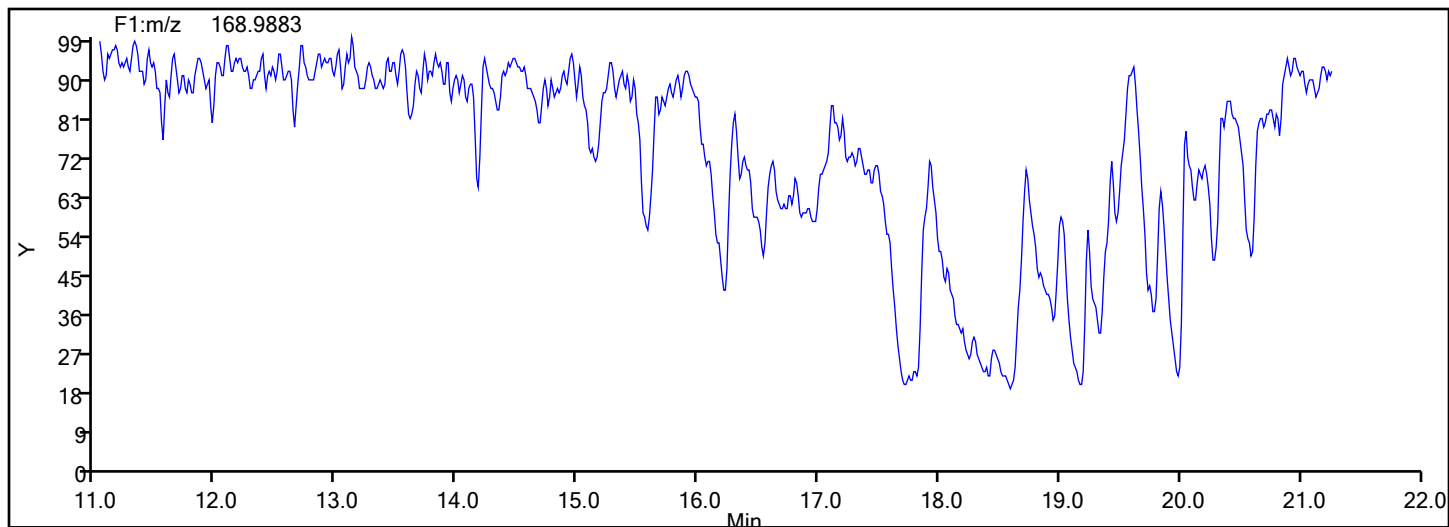
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

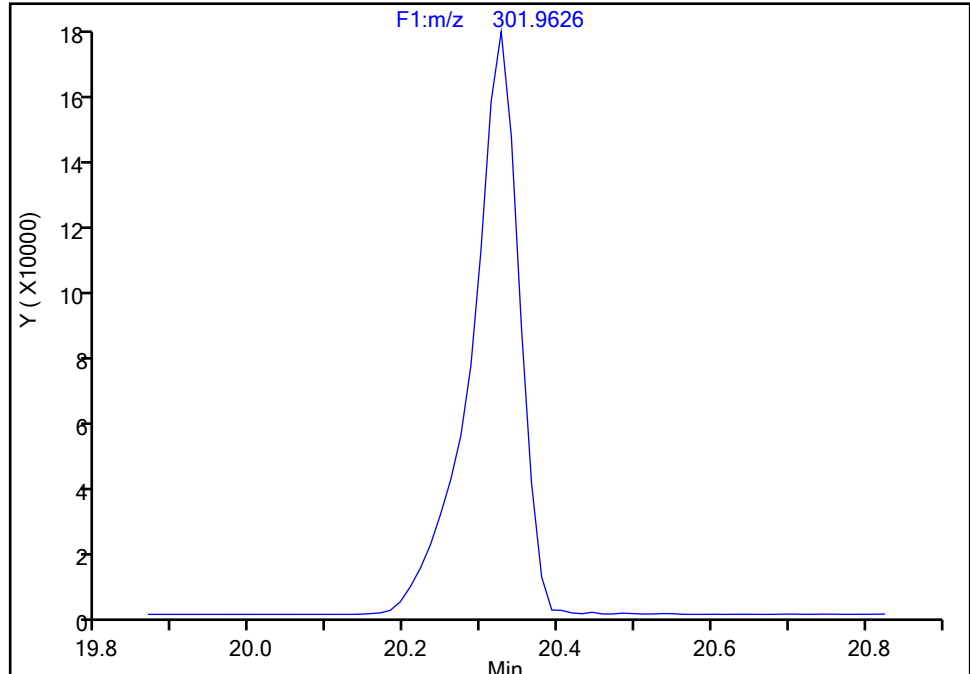
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Lims ID: 140-36689-A-7-C Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 1

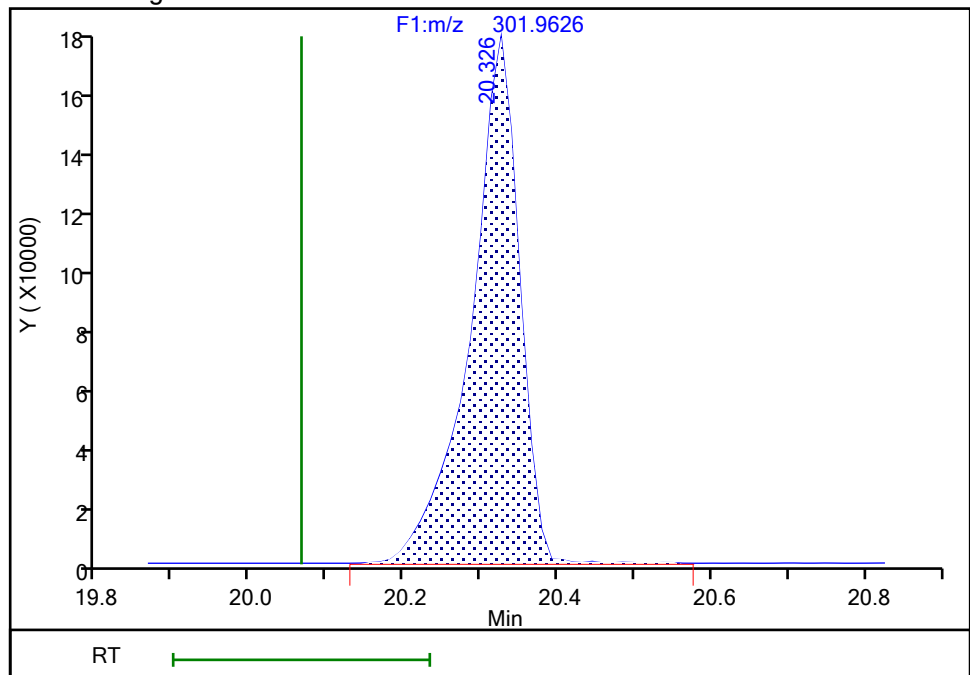
Not Detected
Expected RT: 20.07

Processing Integration Results



RT: 20.33
Area: 771301
Amount: 70.787446
Amount Units: pg/ul

Manual Integration Results



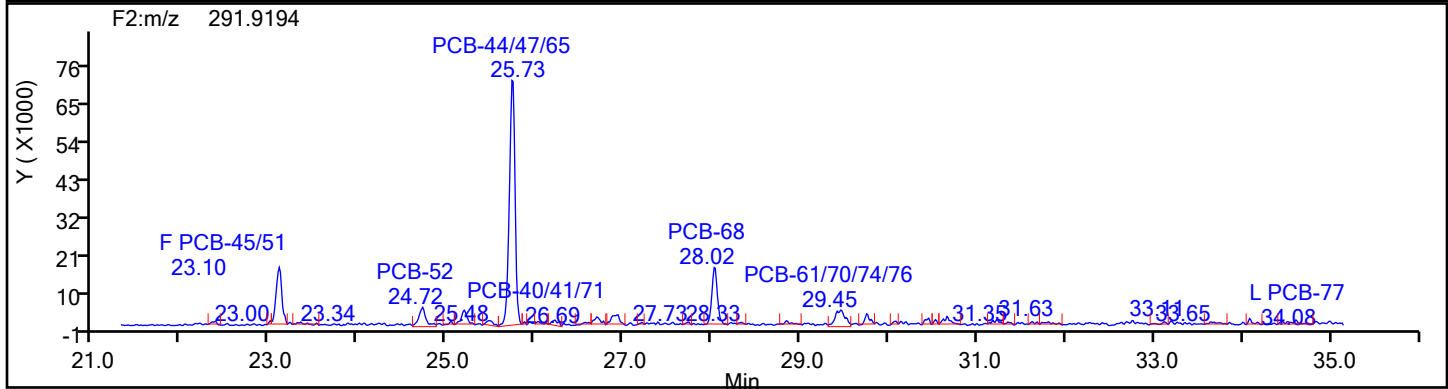
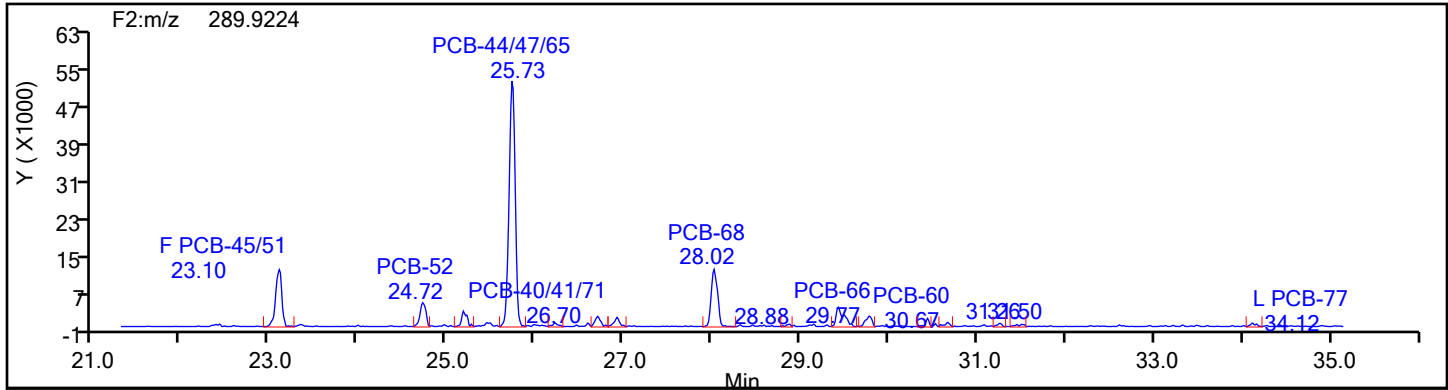
Reviewer: P0IK, 12-Jun-2024 15:37:15 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

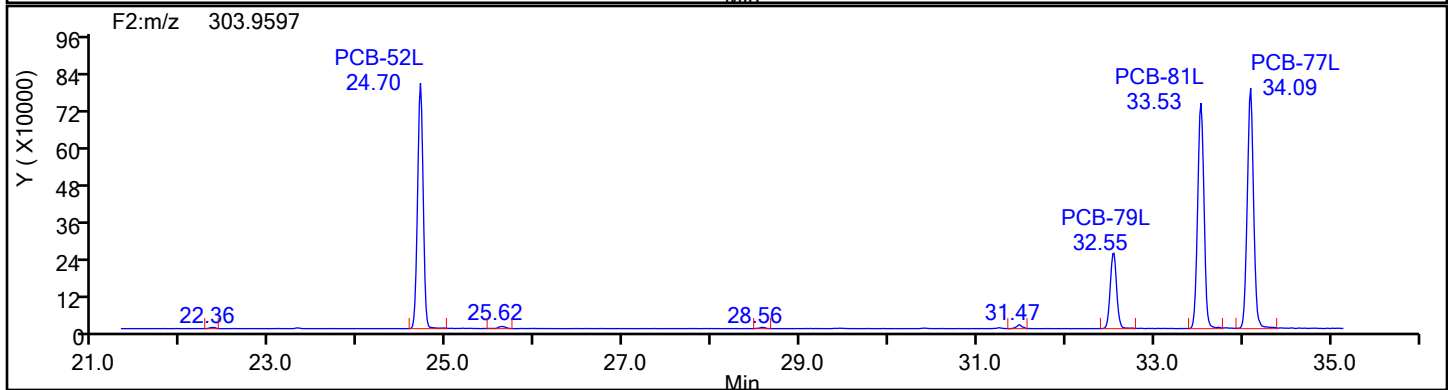
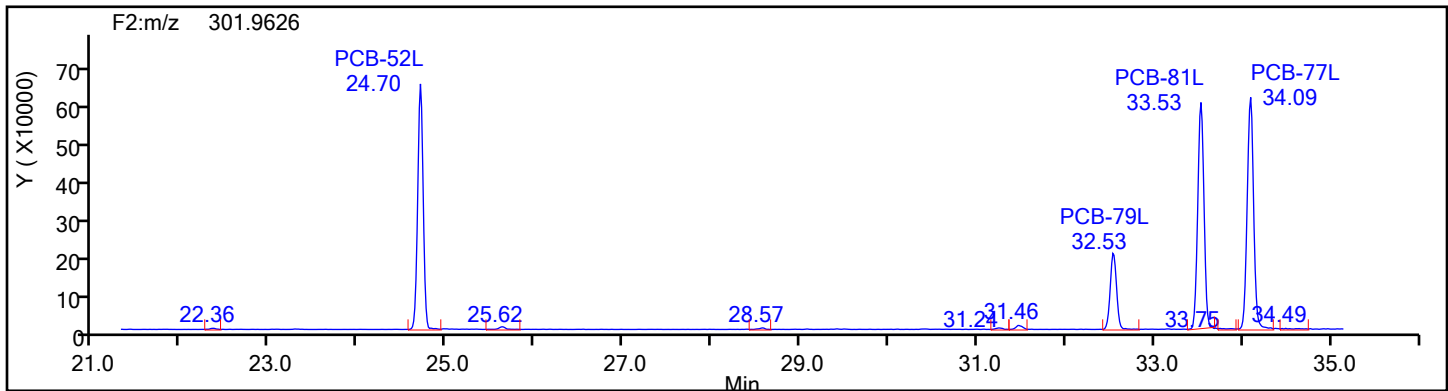
Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

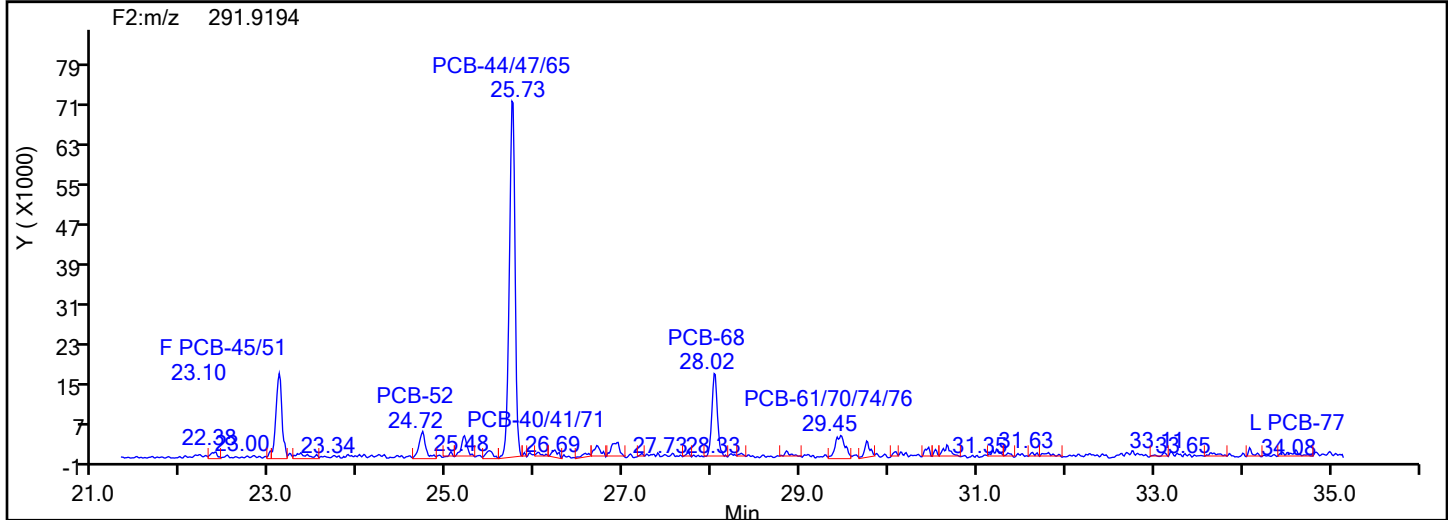
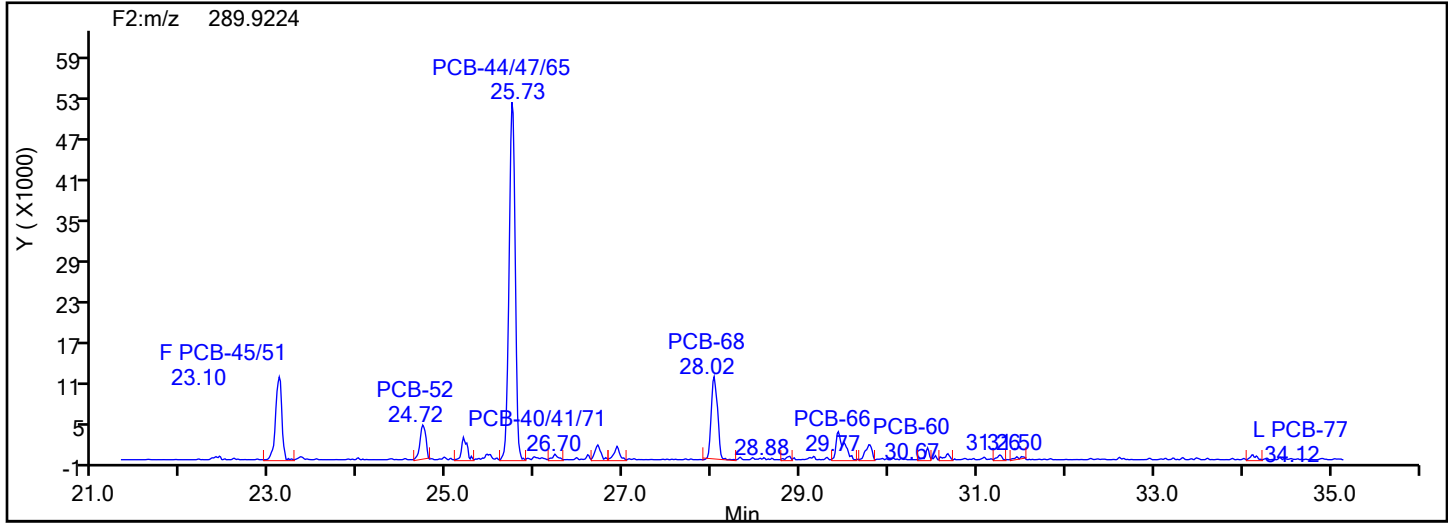


TePCB F2 Standards

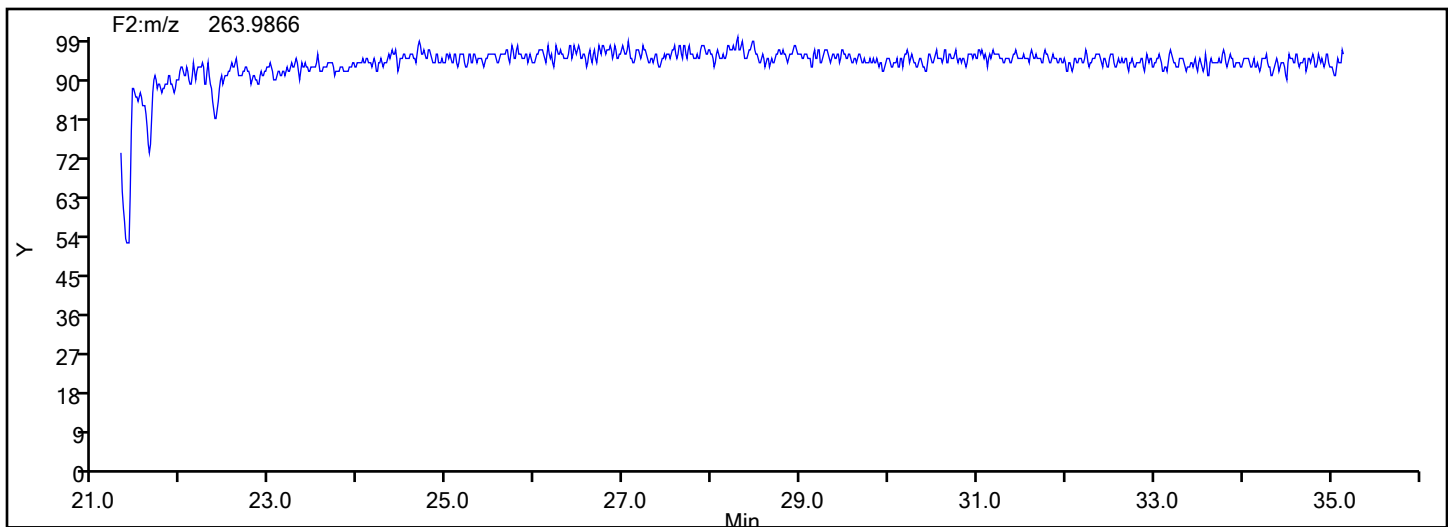


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

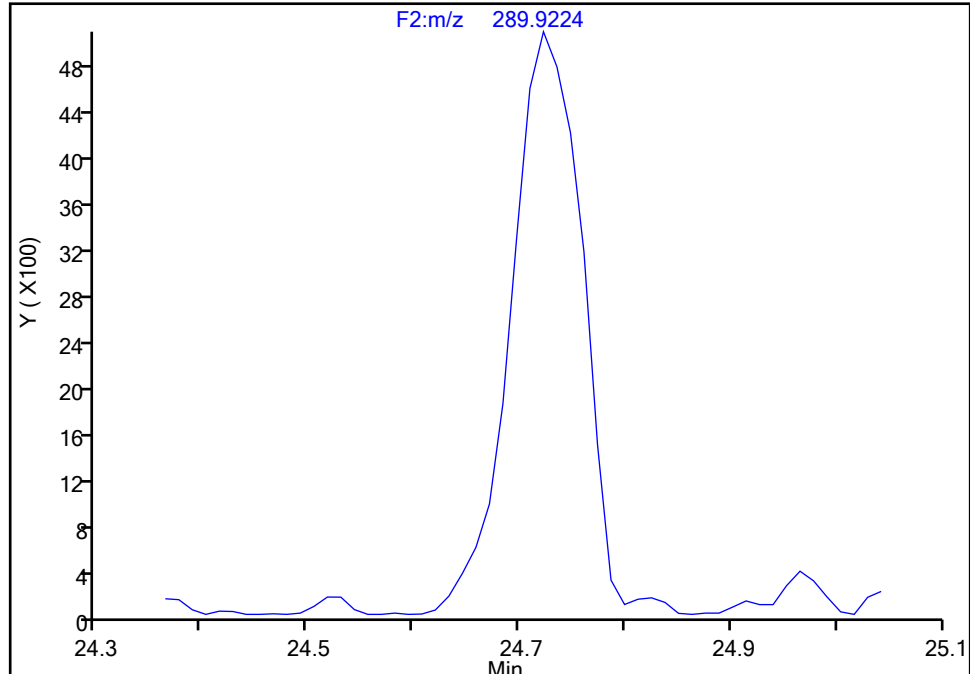
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Injection Date: 12-Jun-2024 06:37:00 Instrument ID: D2D
Lims ID: 140-36689-A-7-C Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 1

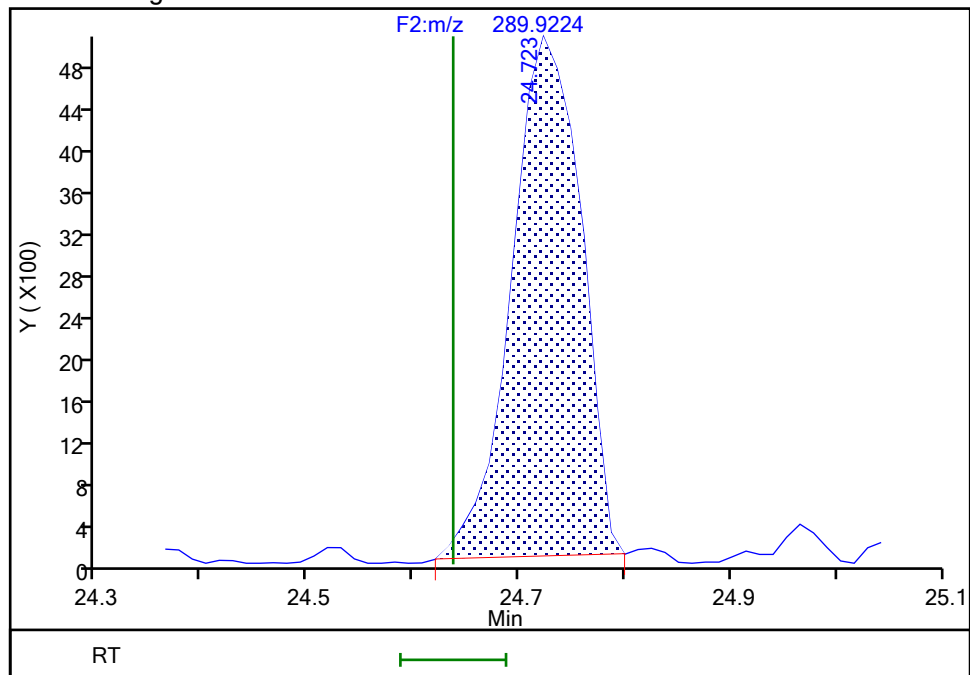
Not Detected
Expected RT: 24.64

Processing Integration Results



RT: 24.72
Area: 22948
Amount: 0.782708
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 15:38:08 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

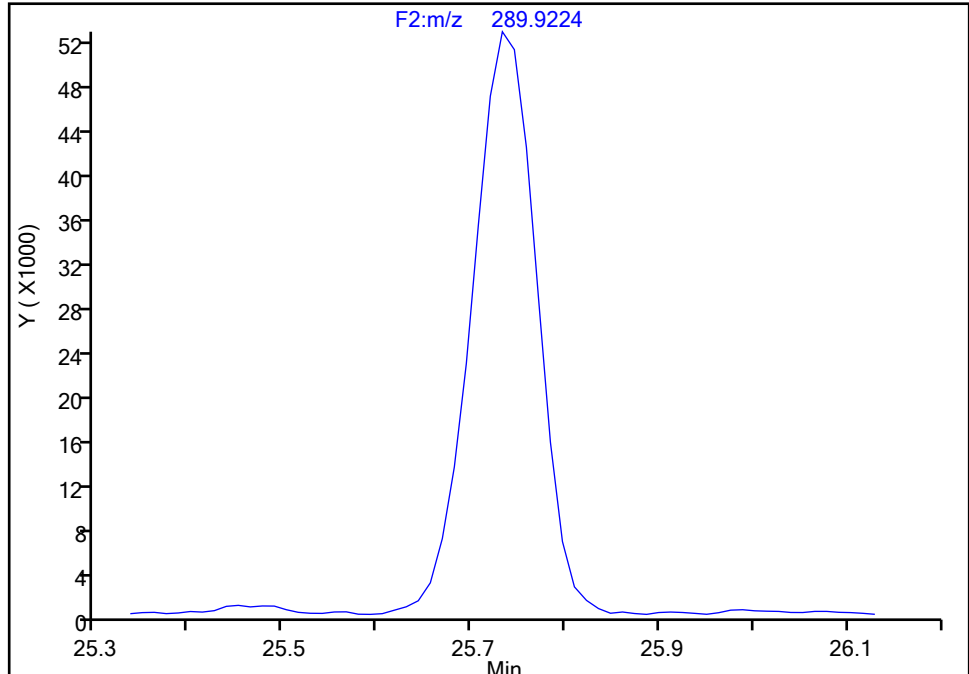
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Injection Date: 12-Jun-2024 06:37:00 Instrument ID: D2D
Lims ID: 140-36689-A-7-C Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-44/47/65, CAS: STL01803

Signal: 1

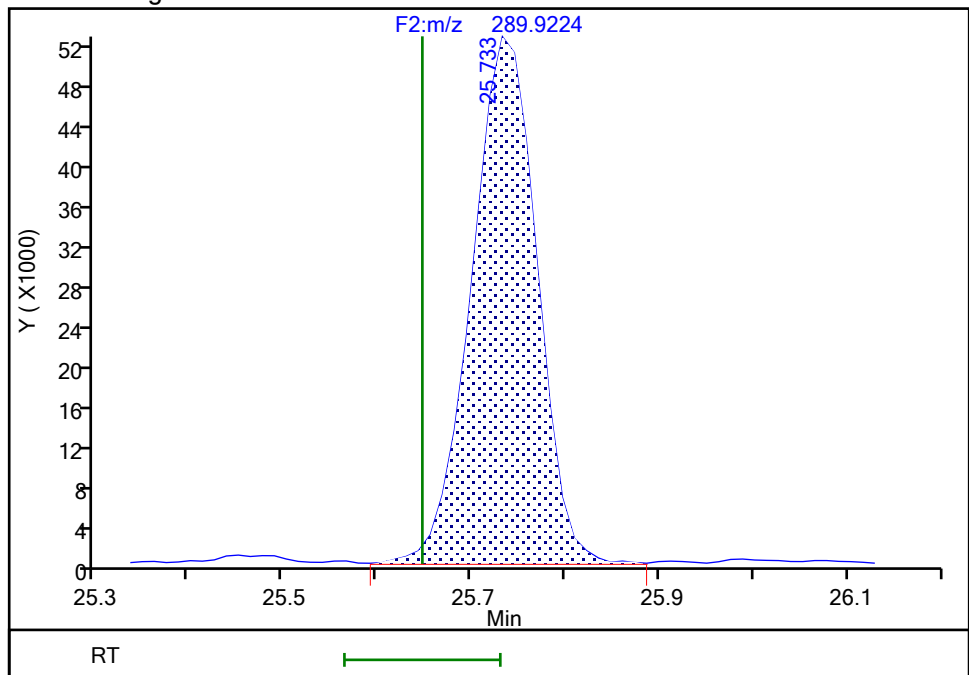
Not Detected
Expected RT: 25.65

Processing Integration Results



RT: 25.73
Area: 253185
Amount: 8.567048
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 15:38:21 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

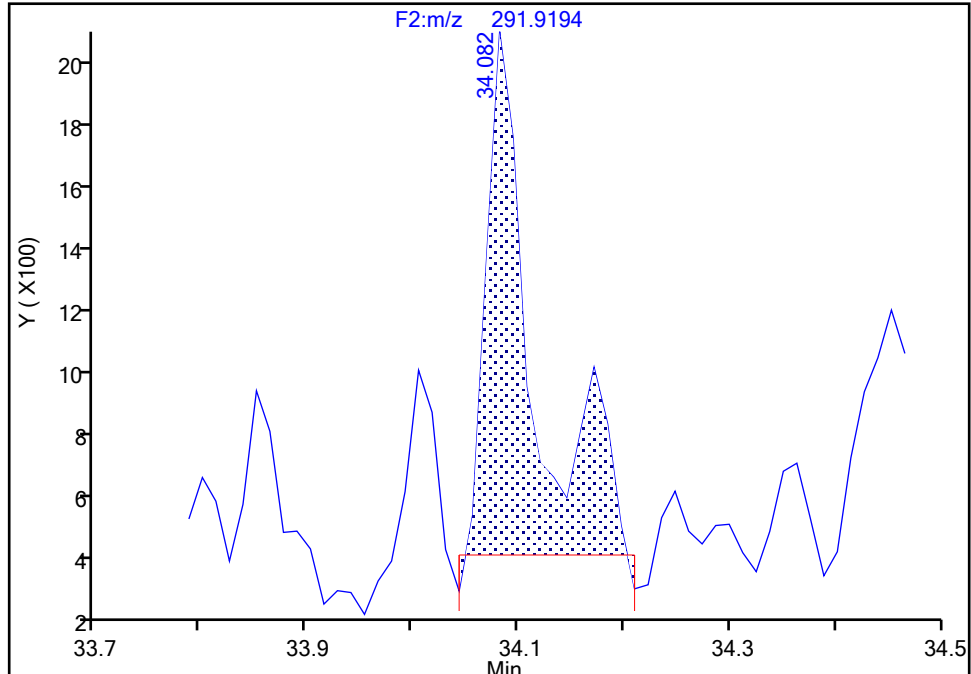
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Injection Date: 12-Jun-2024 06:37:00 Instrument ID: D2D
Lims ID: 140-36689-A-7-C Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 2

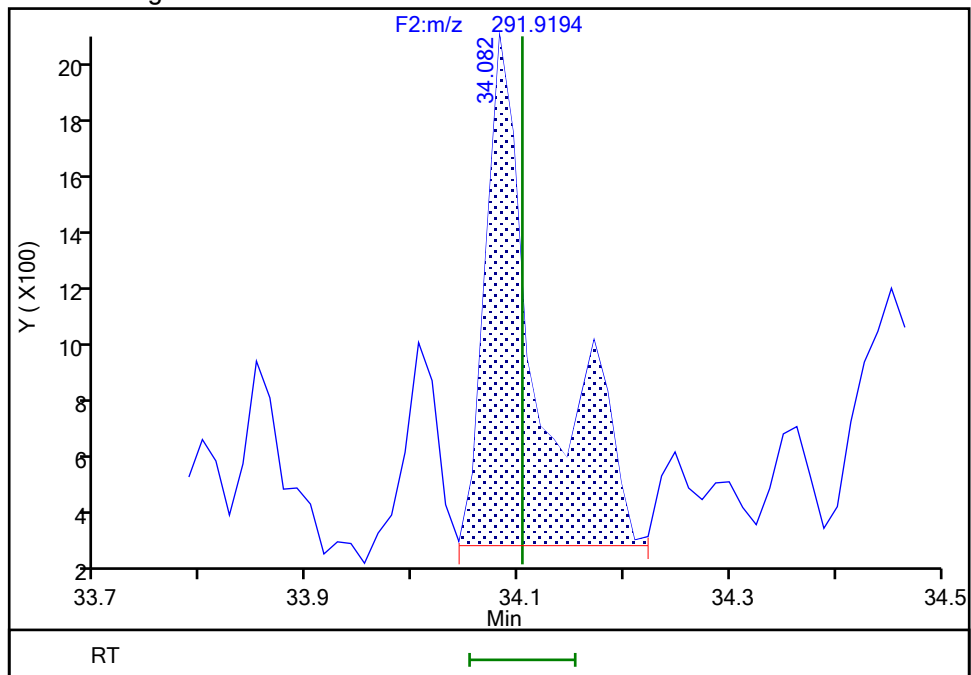
RT: 34.08
Area: 5139
Amount: 0.104023
Amount Units: pg/ul

Processing Integration Results



RT: 34.08
Area: 6422
Amount: 0.128238
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 15:39:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

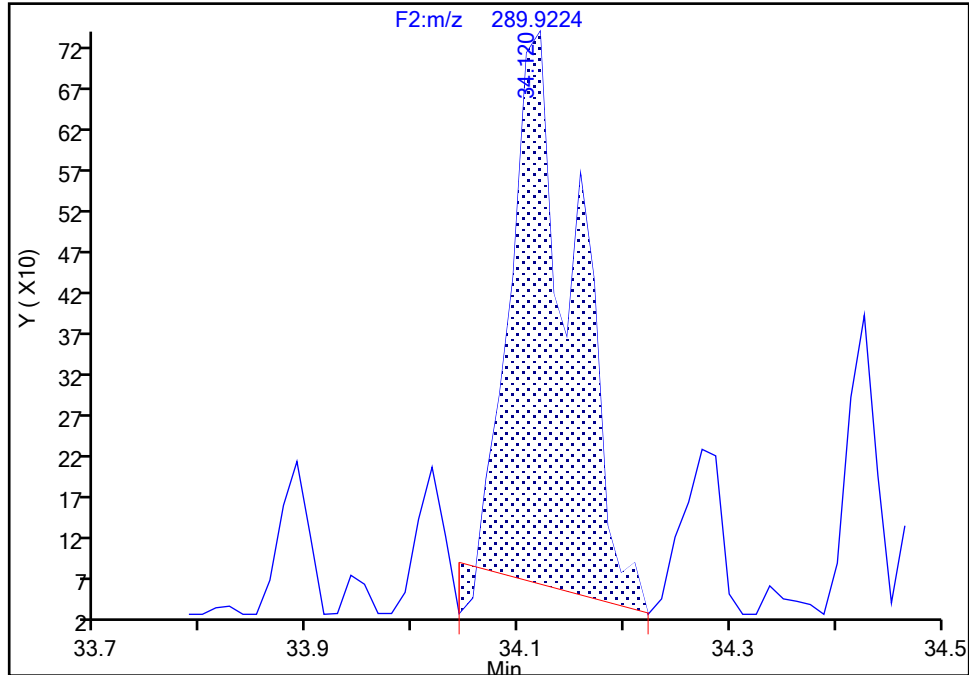
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Injection Date: 12-Jun-2024 06:37:00 Instrument ID: D2D
Lims ID: 140-36689-A-7-C Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 1

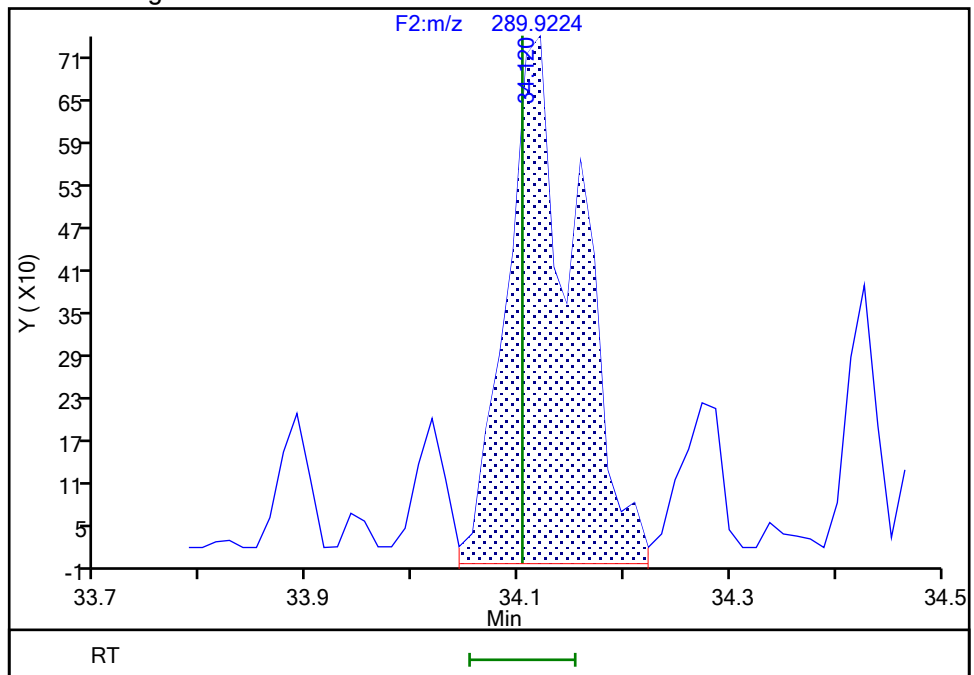
RT: 34.12
Area: 2864
Amount: 0.104023
Amount Units: pg/ul

Processing Integration Results



RT: 34.12
Area: 3444
Amount: 0.128238
Amount Units: pg/ul

Manual Integration Results



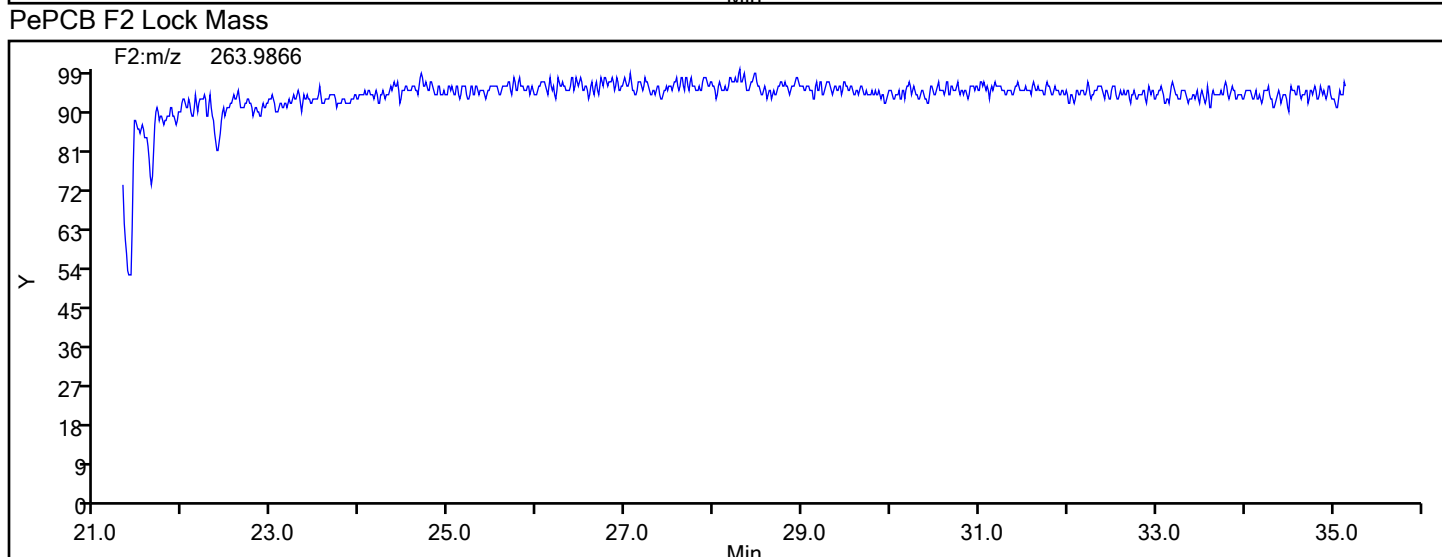
Reviewer: P0IK, 12-Jun-2024 15:39:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Column Dia: 0.25 mm

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d		
Injection Date:	12-Jun-2024 06:37:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23-NO.3 BOILER-RUN 7 COMBINED		
Worklist#:	87536	Sample Line#:	12
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
PePCB F2			



Eurofins Knoxville

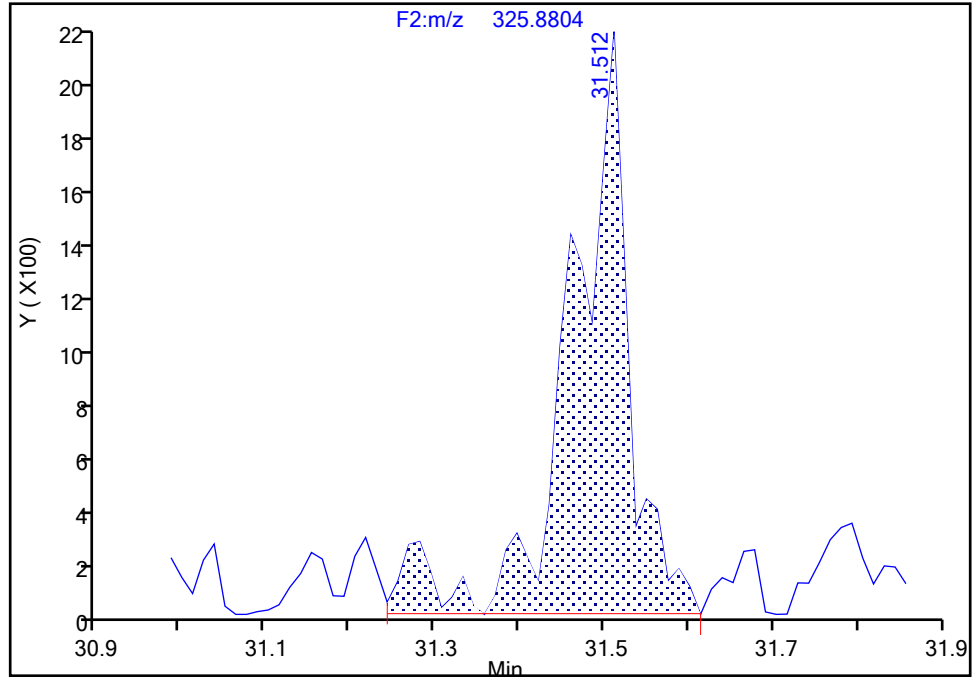
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Injection Date: 12-Jun-2024 06:37:00 Instrument ID: D2D
Lims ID: 140-36689-A-7-C Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-90/101/113, CAS: STL01813

Signal: 1

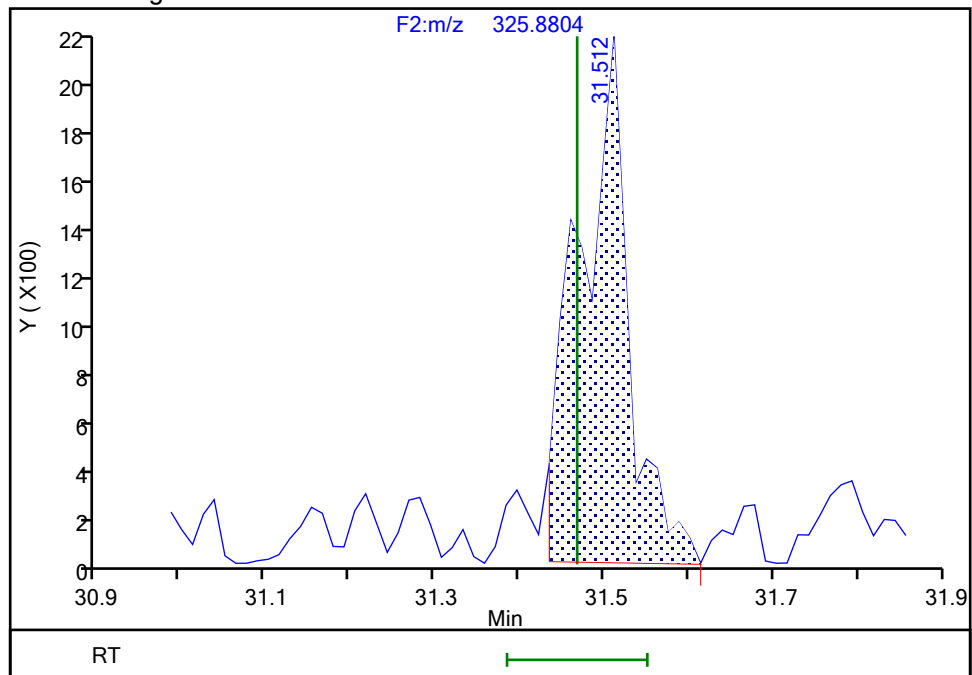
RT: 31.51
Area: 10346
Amount: 0.340986
Amount Units: pg/ul

Processing Integration Results



RT: 31.51
Area: 8720
Amount: 0.305635
Amount Units: pg/ul

Manual Integration Results



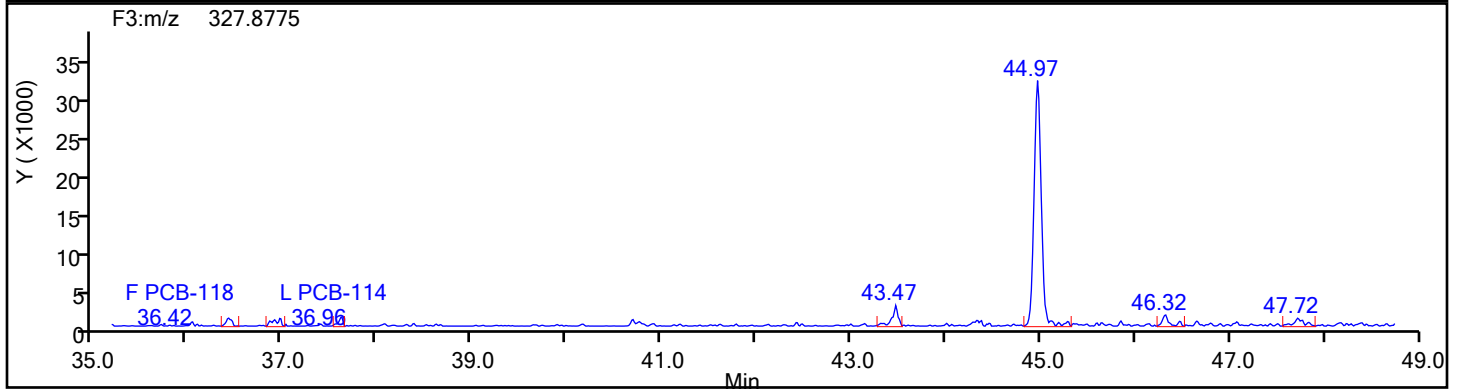
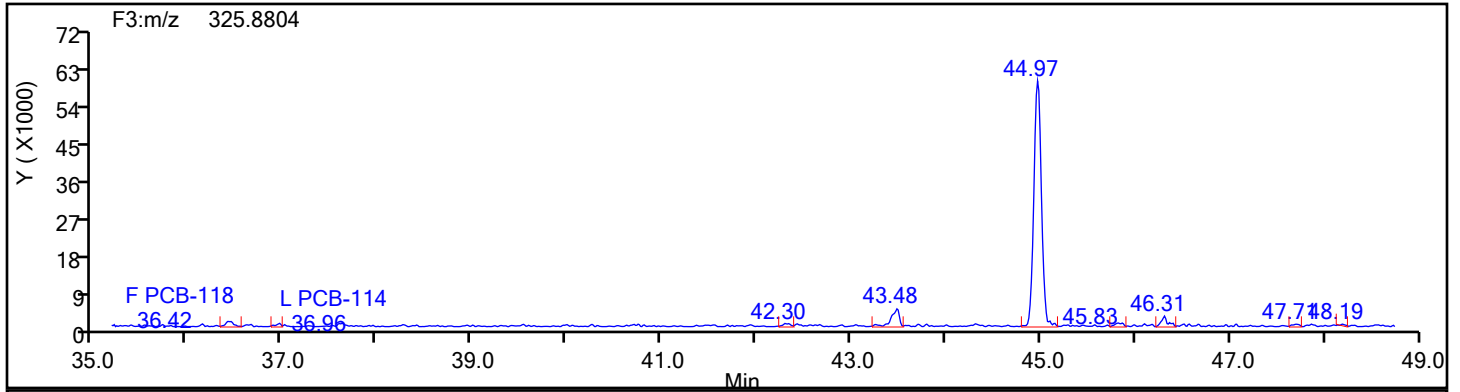
Reviewer: P0IK, 12-Jun-2024 15:42:00 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

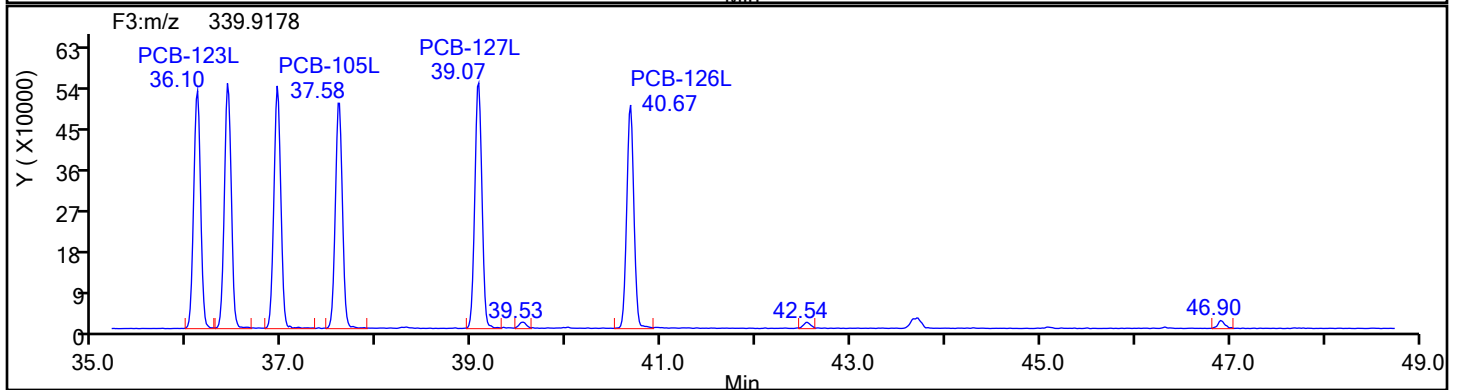
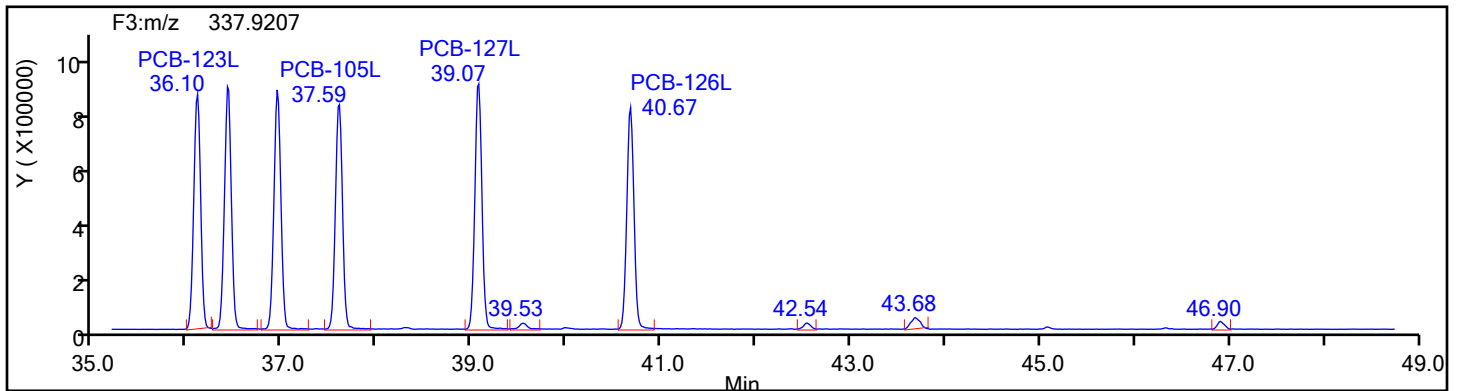
Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

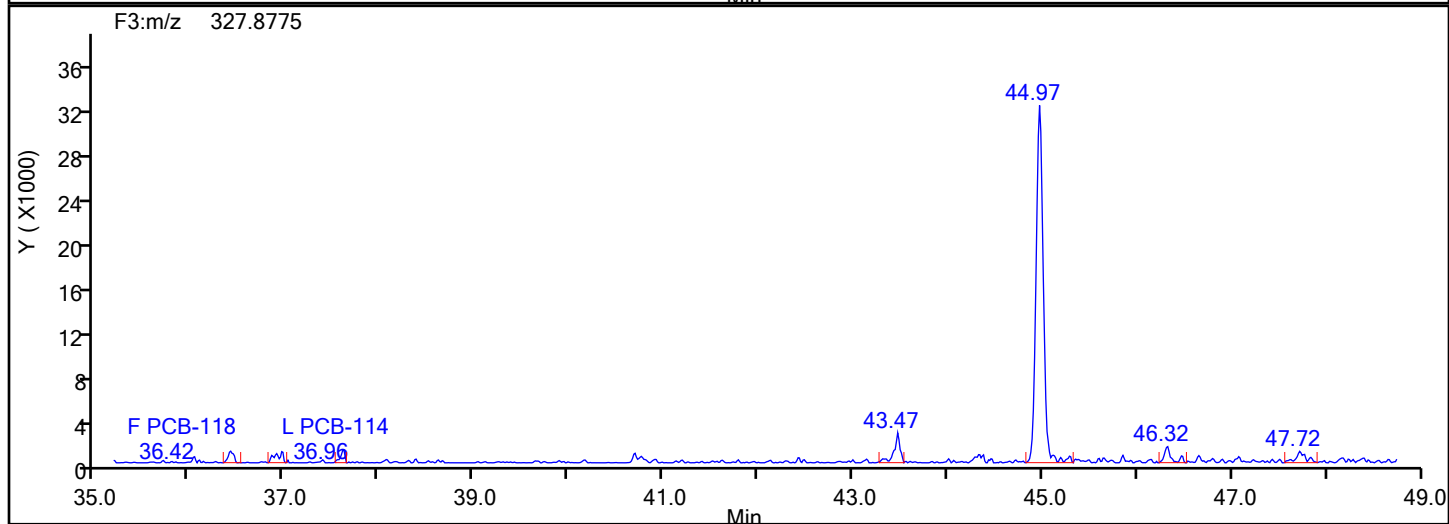
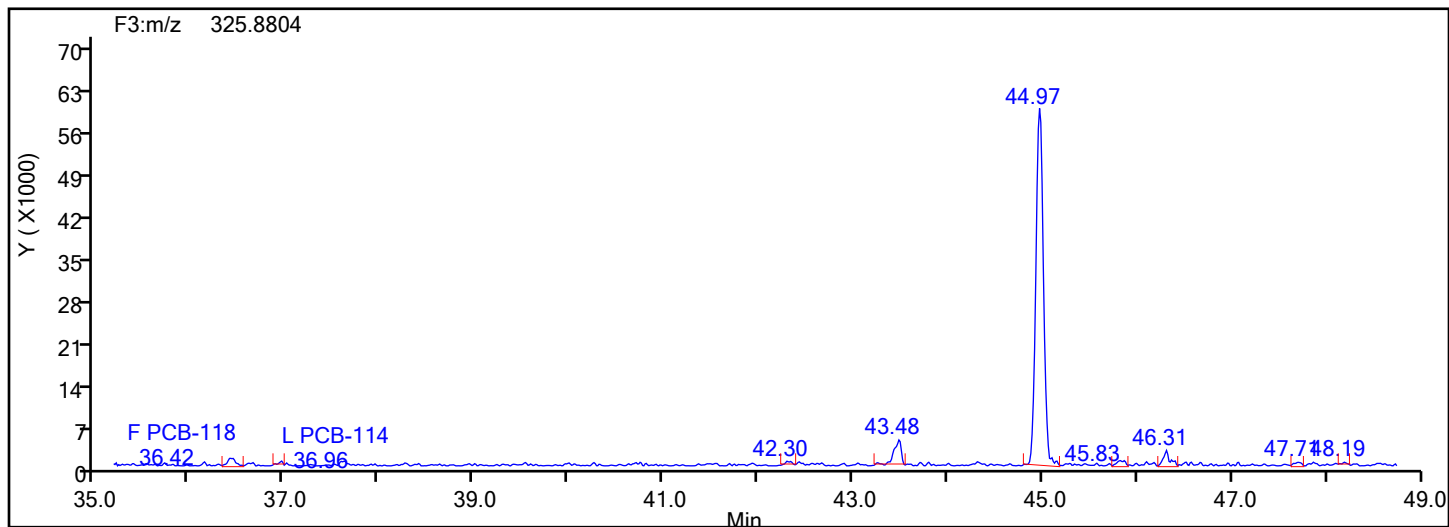


PePCB F3 Standards

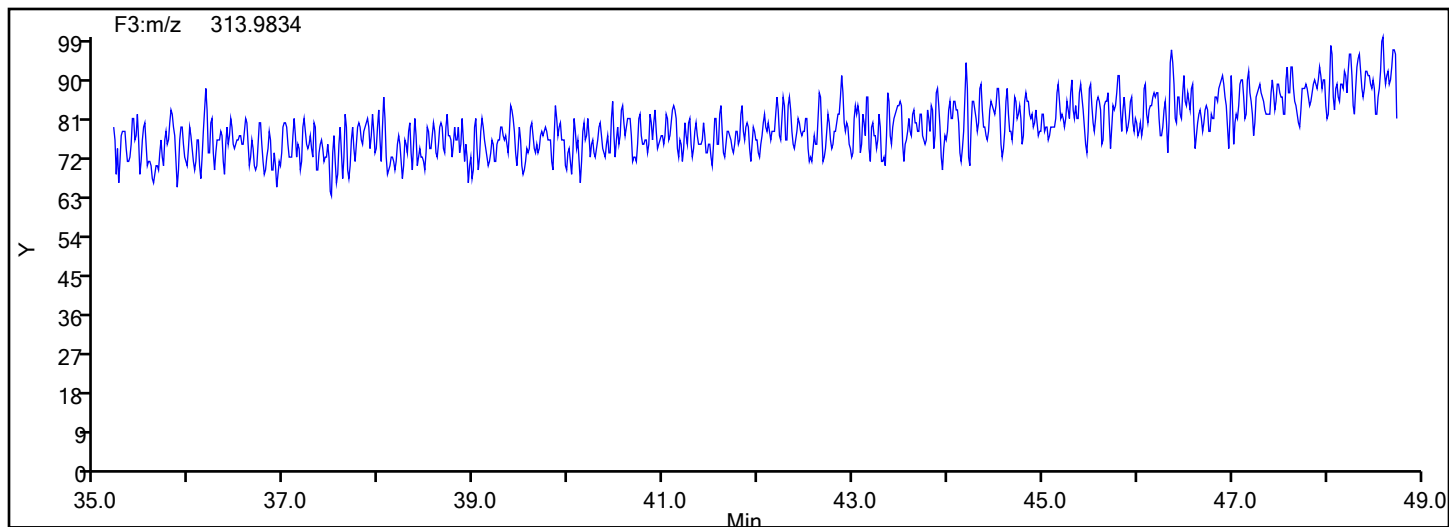


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

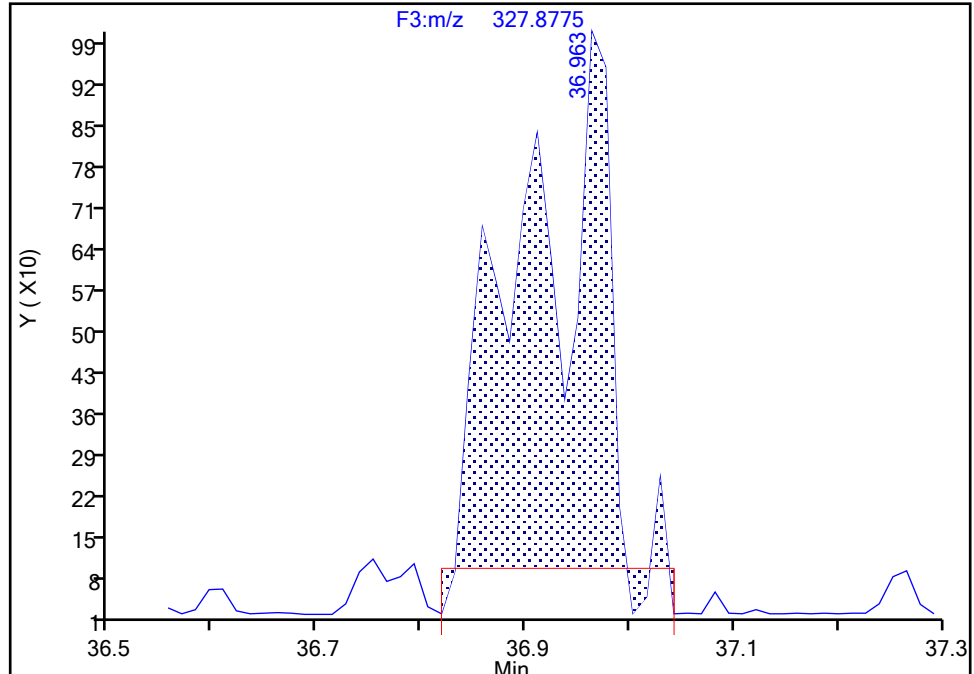
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Injection Date: 12-Jun-2024 06:37:00 Instrument ID: D2D
Lims ID: 140-36689-A-7-C Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-114, CAS: 74472-37-0

Signal: 2

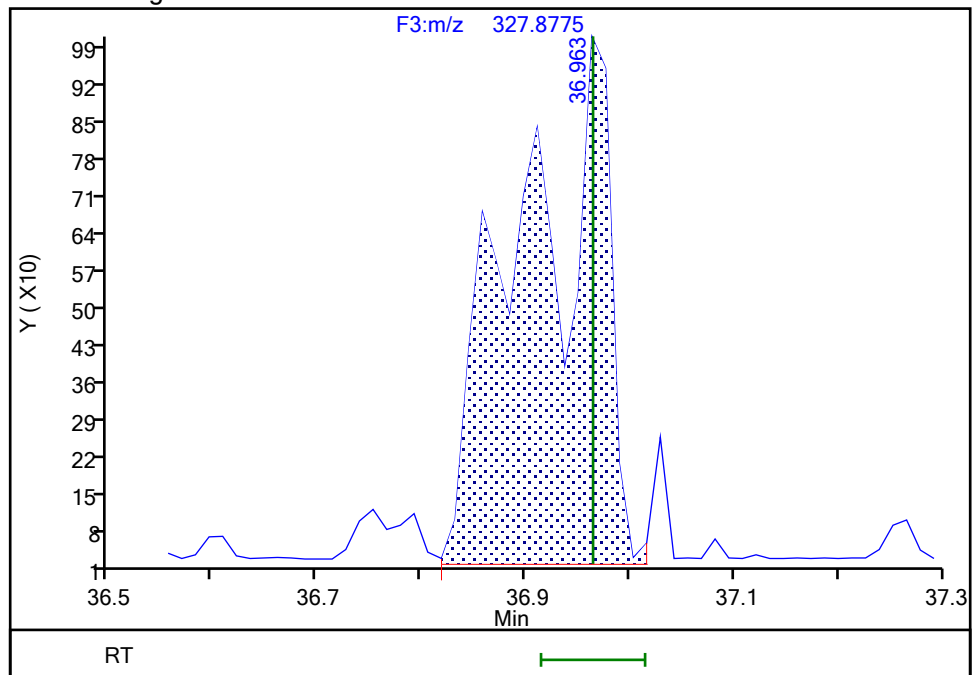
RT: 36.96
Area: 4893
Amount: 0.091137
Amount Units: pg/ul

Processing Integration Results



RT: 36.96
Area: 5812
Amount: 0.103123
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 15:43:34 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d

Injection Date: 12-Jun-2024 06:37:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

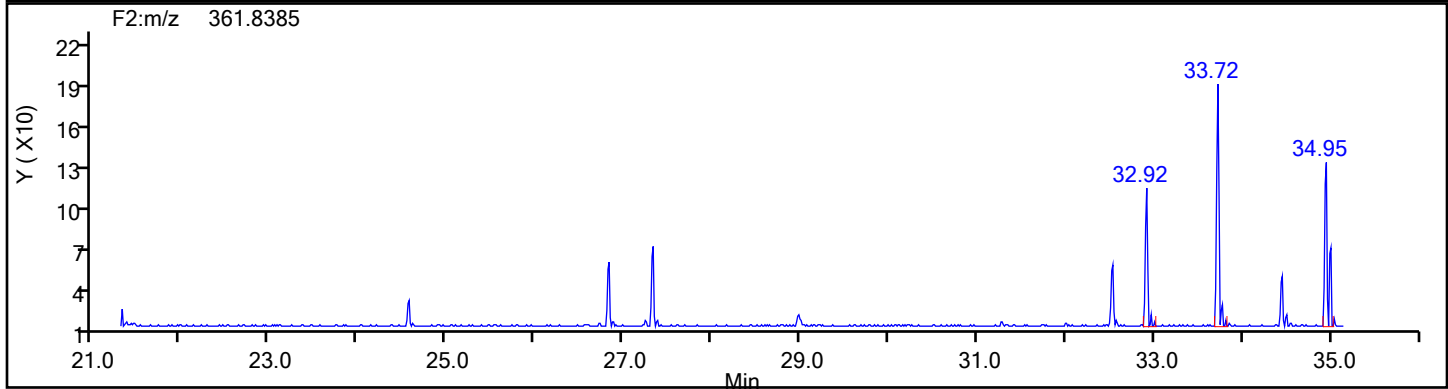
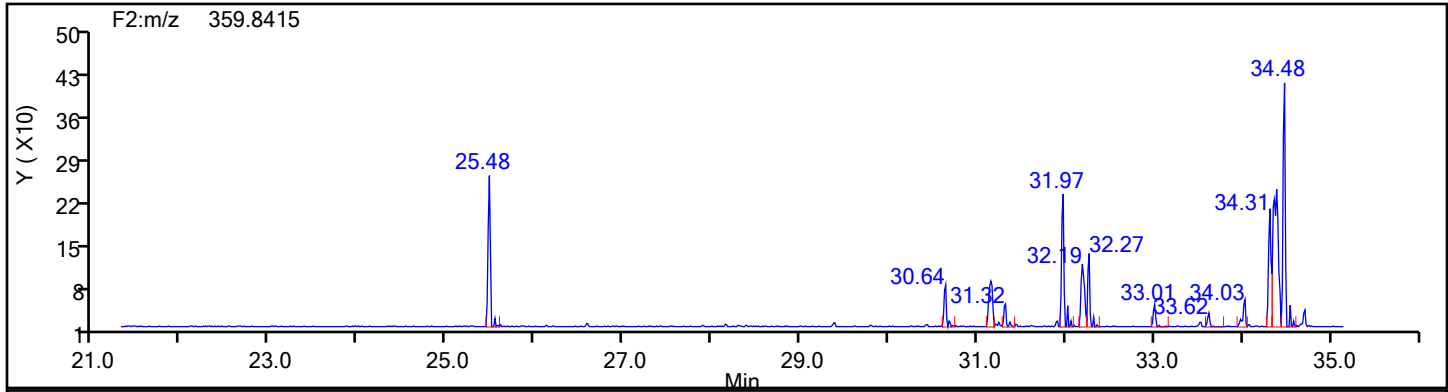
Worklist#: 87536

Sample Line#: 12

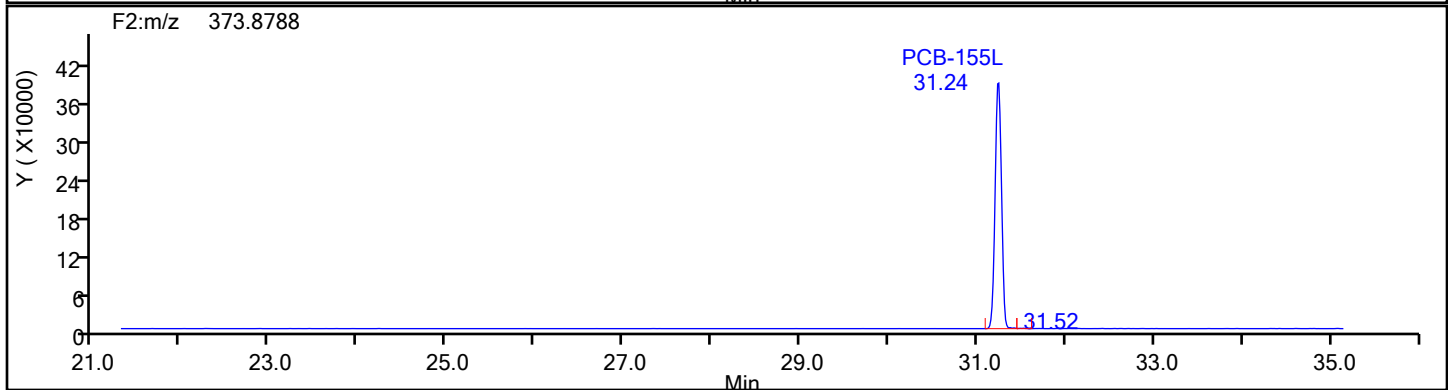
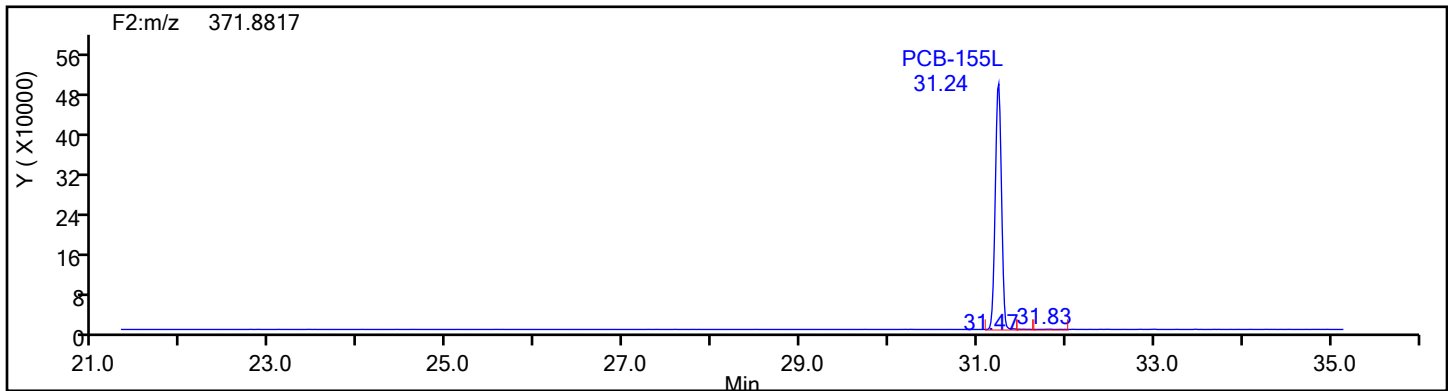
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

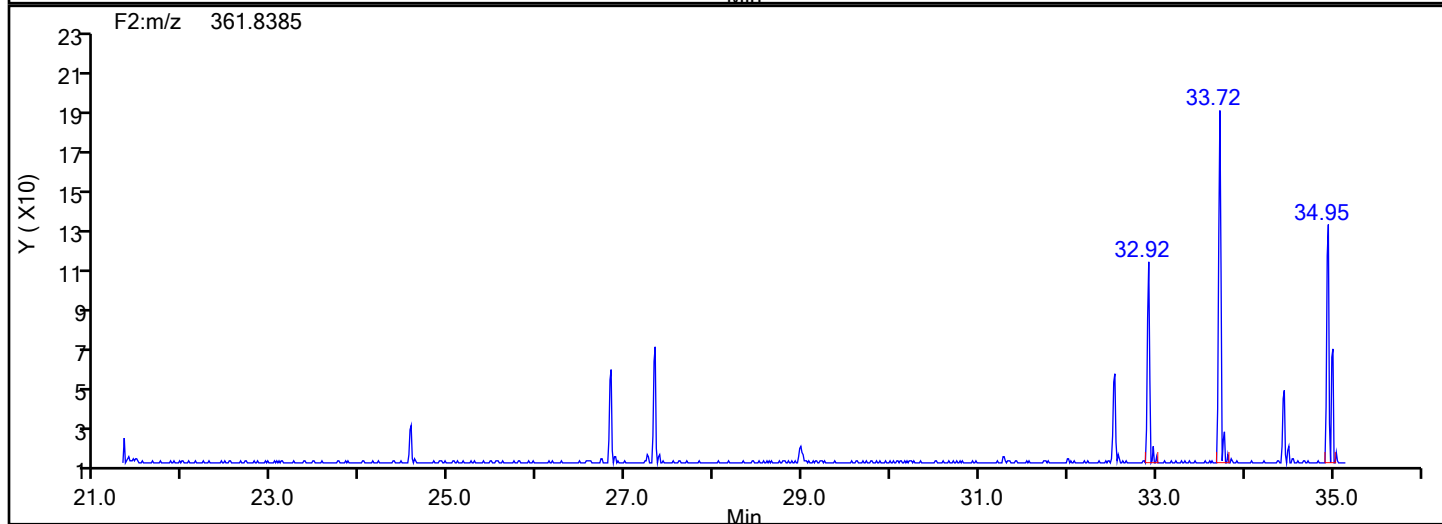
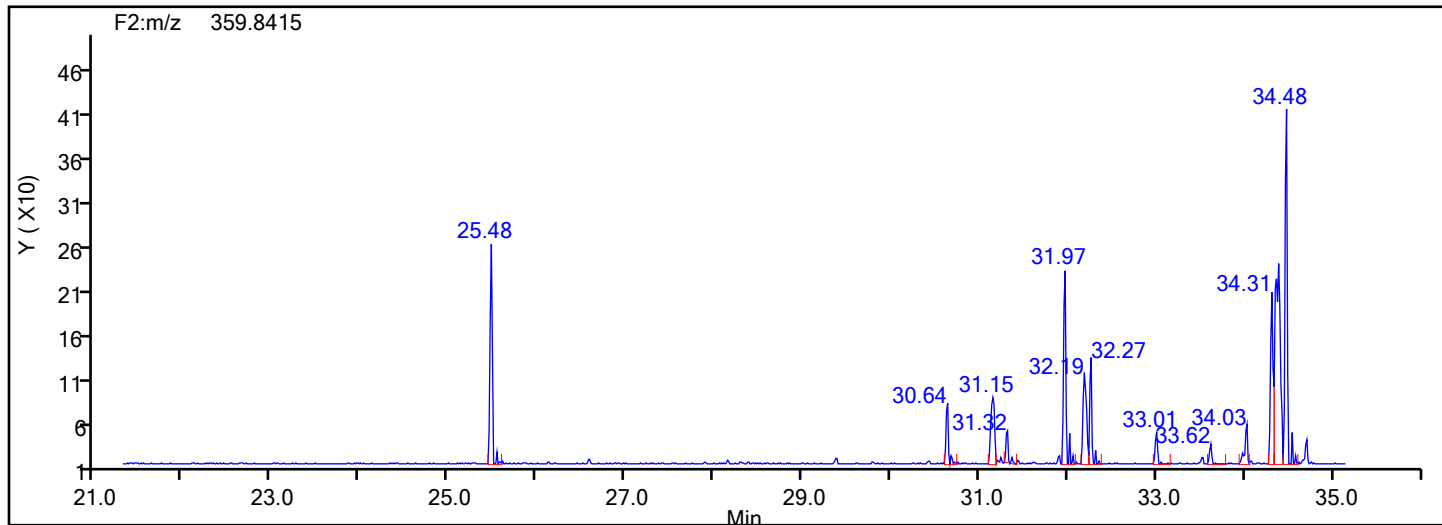


HxPCB F2 Standards

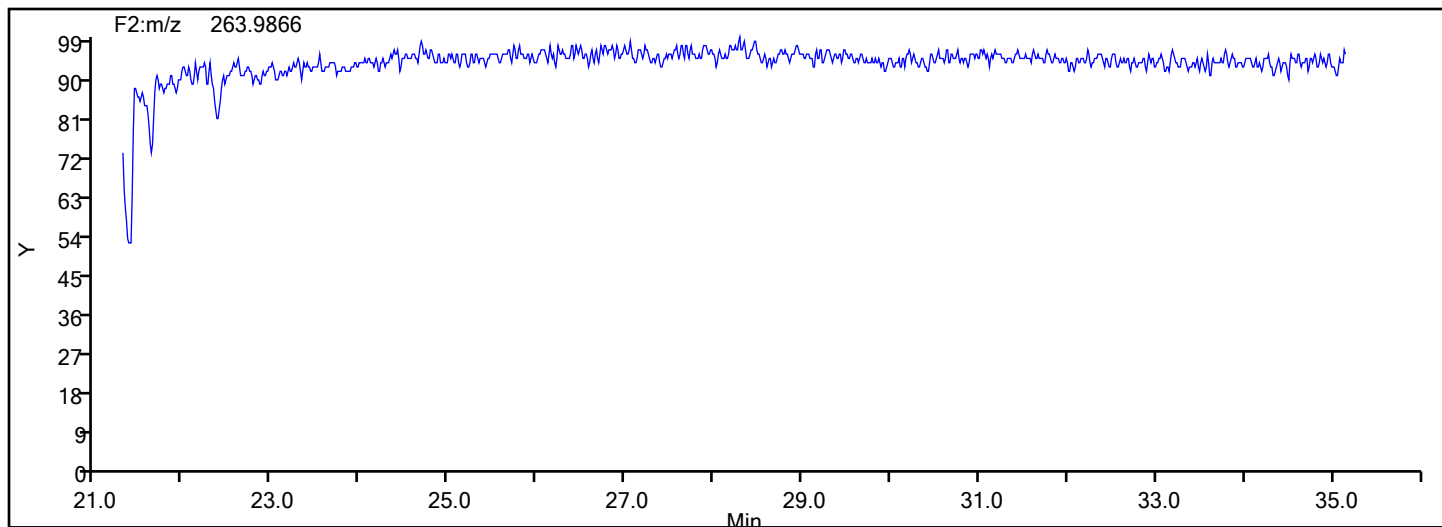


Eurofins Knoxville

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Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



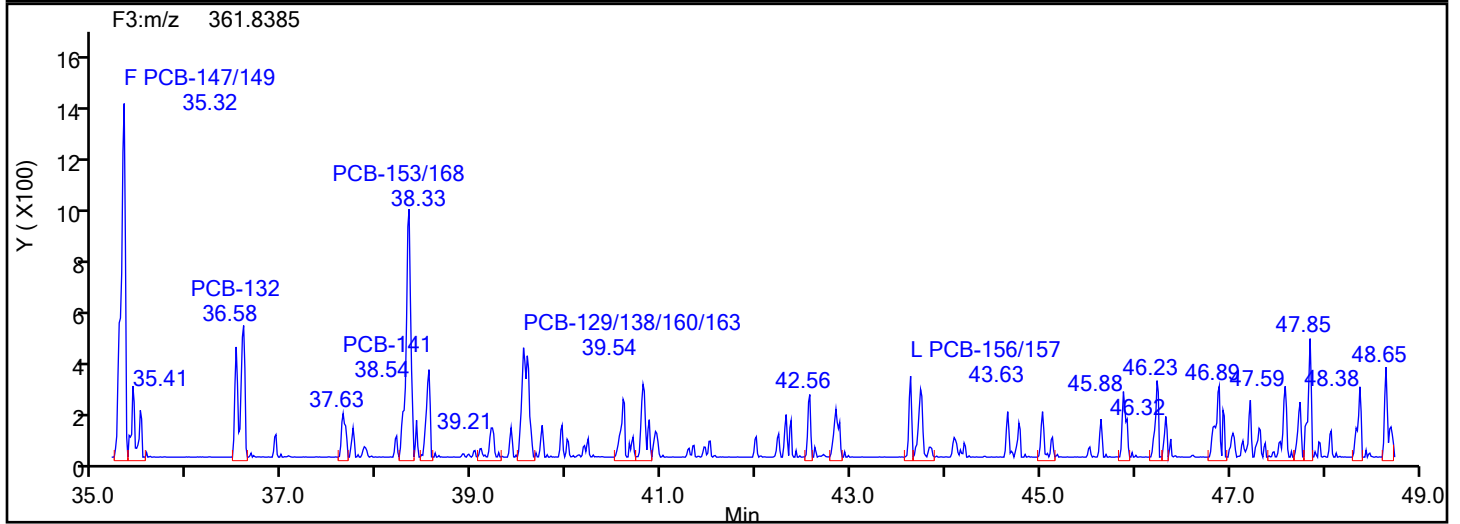
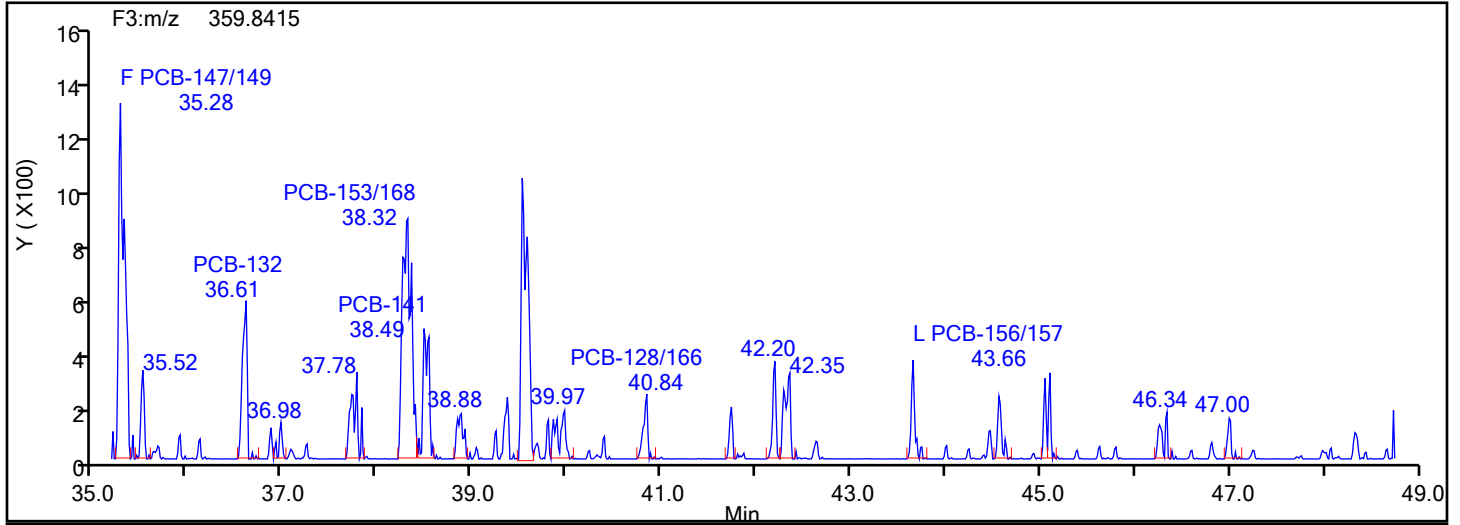
HxPCB F2 Lock Mass



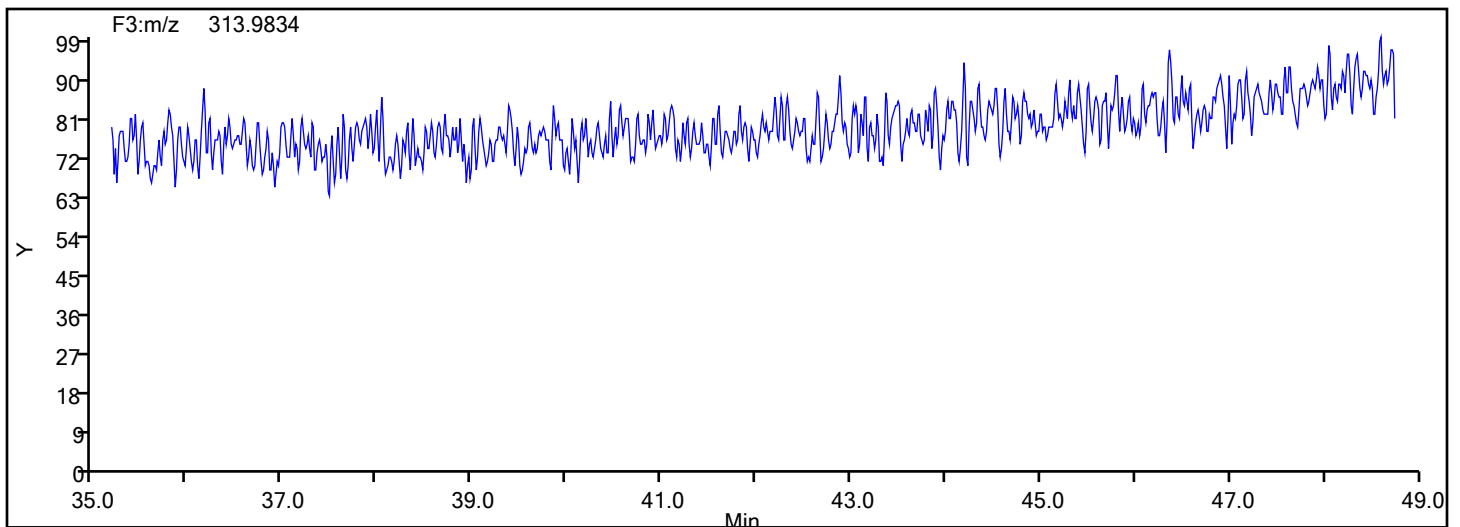
Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

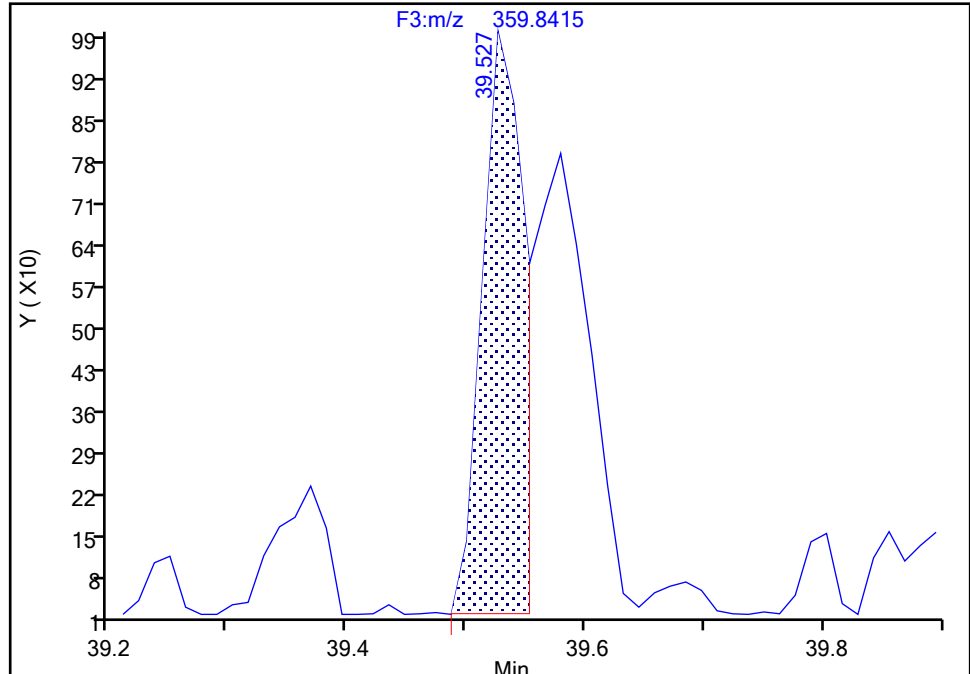
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Injection Date: 12-Jun-2024 06:37:00 Instrument ID: D2D
Lims ID: 140-36689-A-7-C Lab Sample ID: 140-36689-7
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

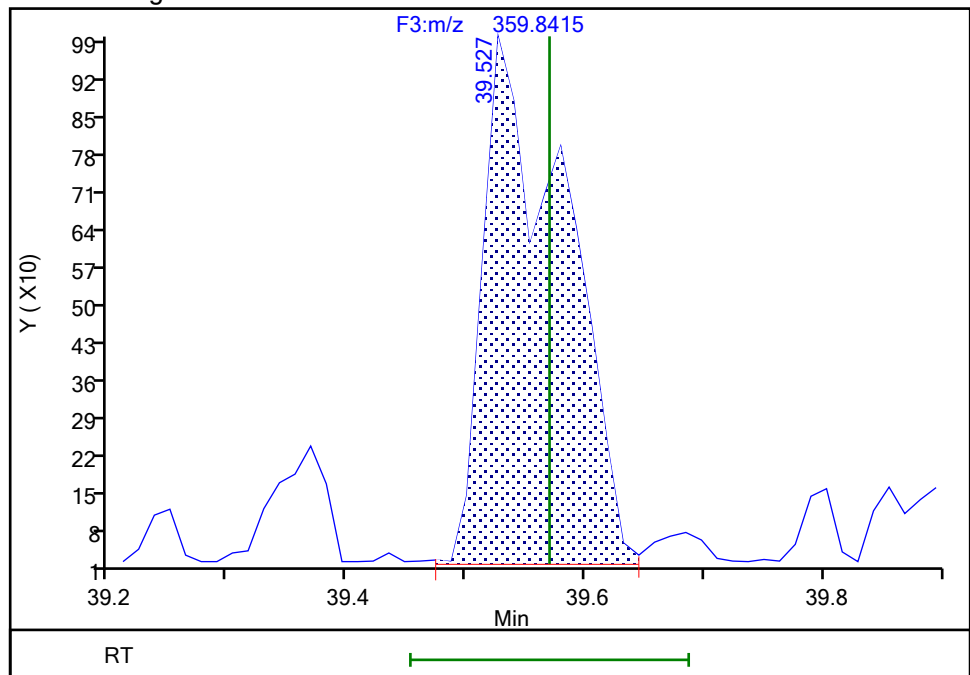
RT: 39.53
Area: 2208
Amount: 0.079158
Amount Units: pg/ul

Processing Integration Results



RT: 39.53
Area: 4646
Amount: 0.122536
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 15:44:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d

Injection Date: 12-Jun-2024 06:37:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

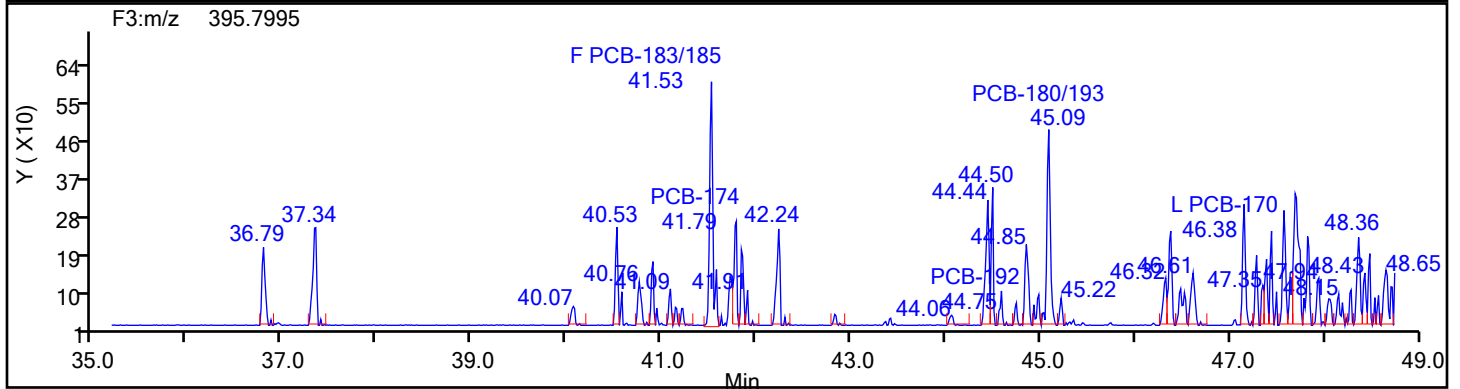
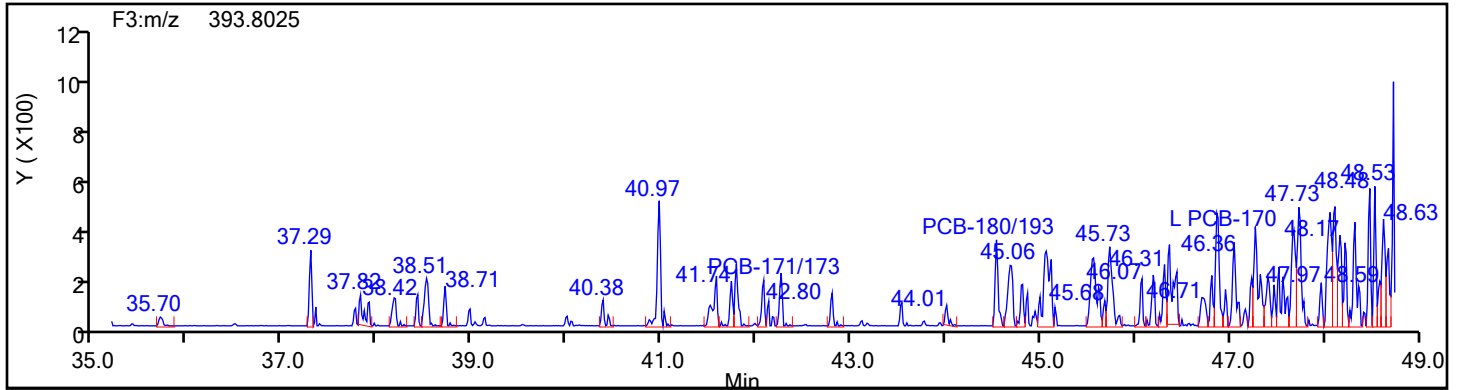
Worklist#: 87536

Sample Line#: 12

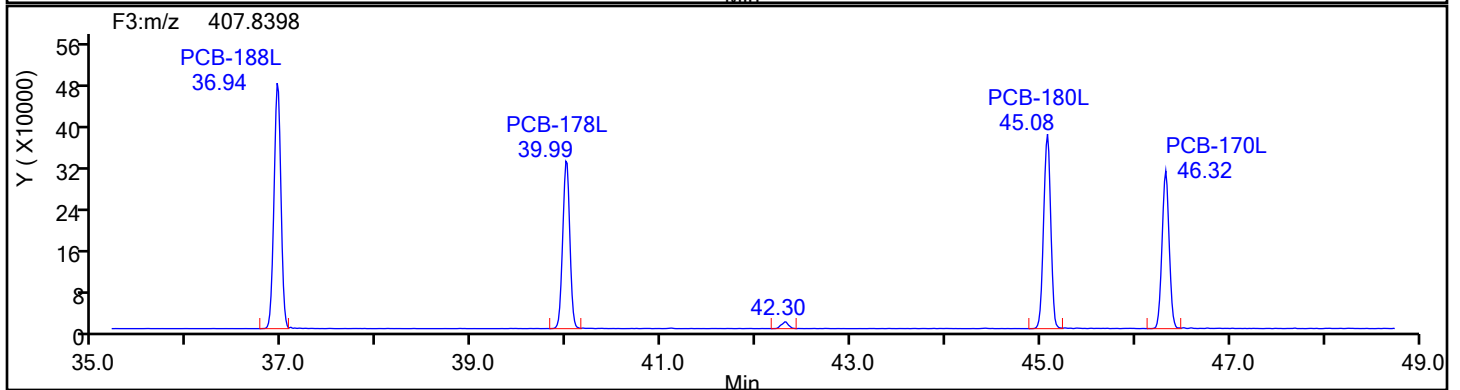
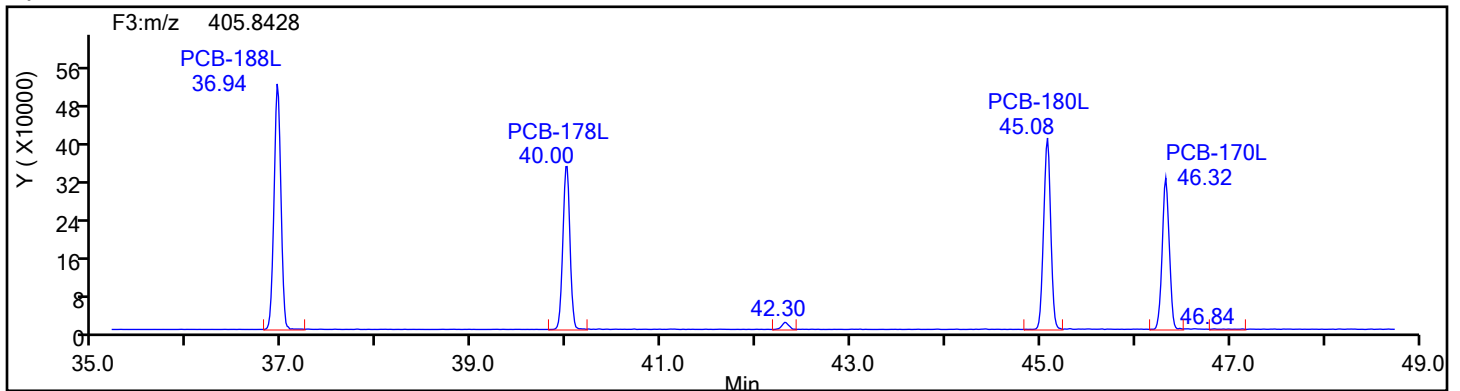
Column Type: SPB-Octyl

Column Dia: 0.25 mm

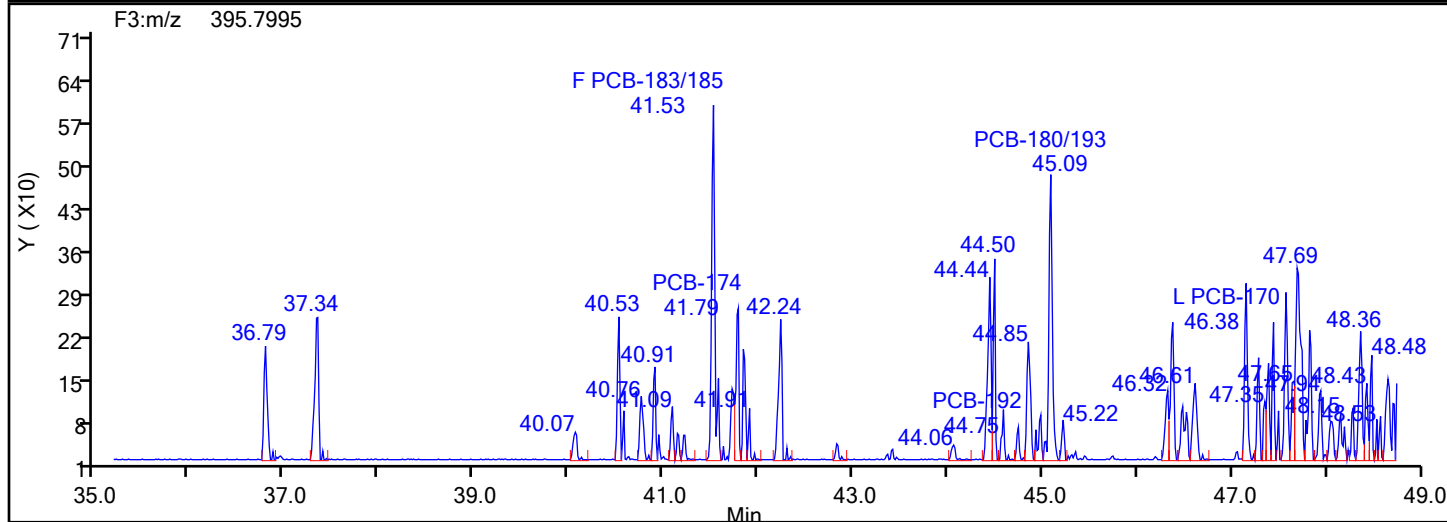
HpPCB F3



HpPCB F3 Standards

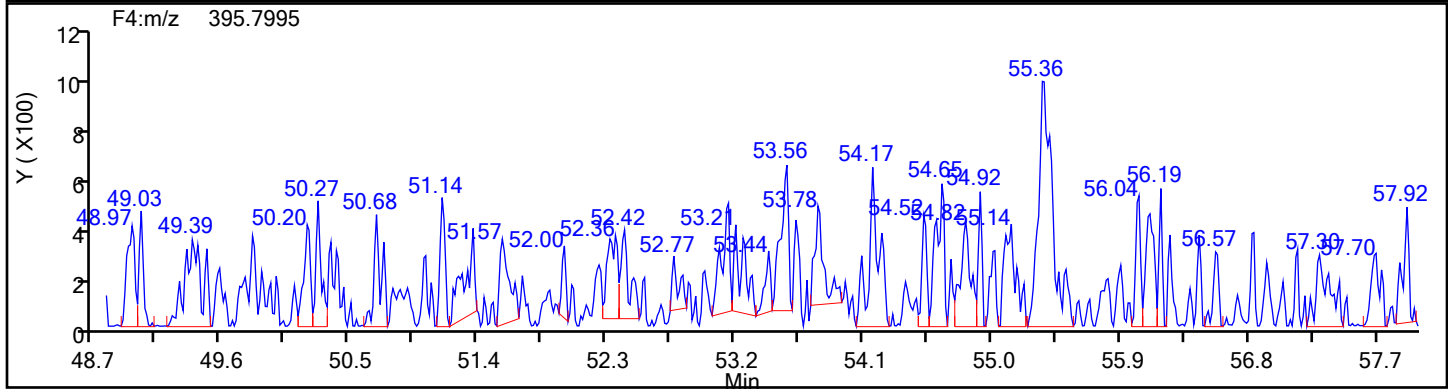
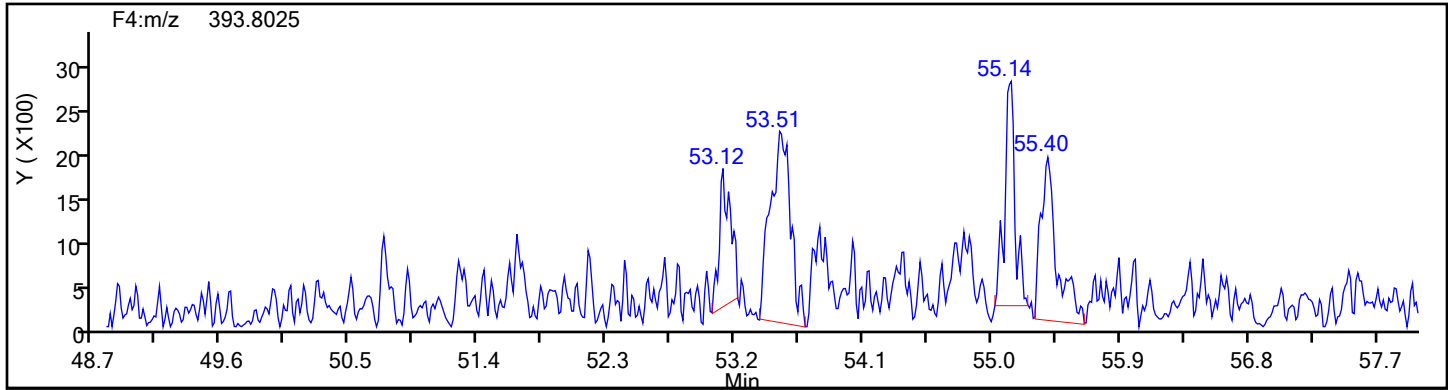


Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d		
Injection Date:	12-Jun-2024 06:37:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23-NO.3 BOILER-RUN 7 COMBINED		
Worklist#:	87536	Sample Line#:	12
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
HpPCB F3			

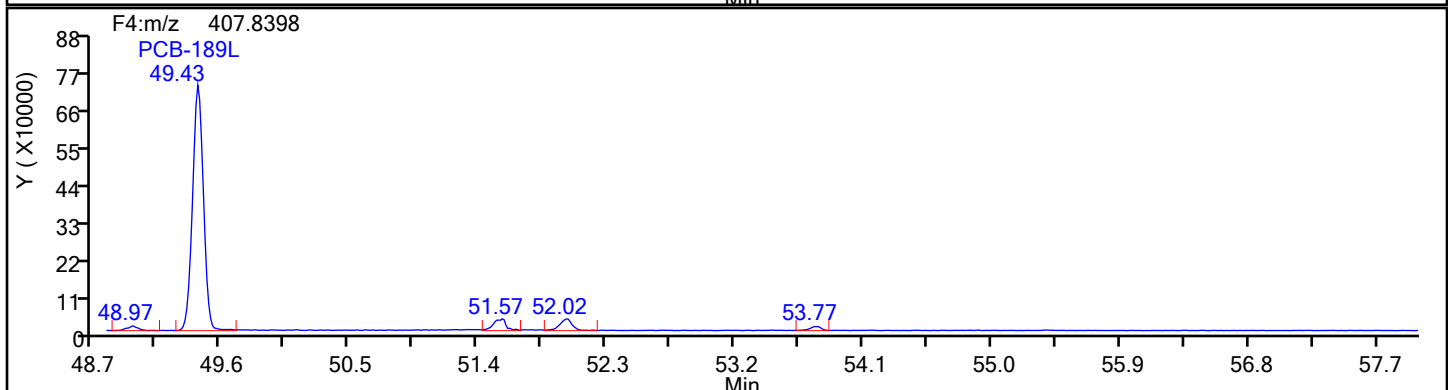
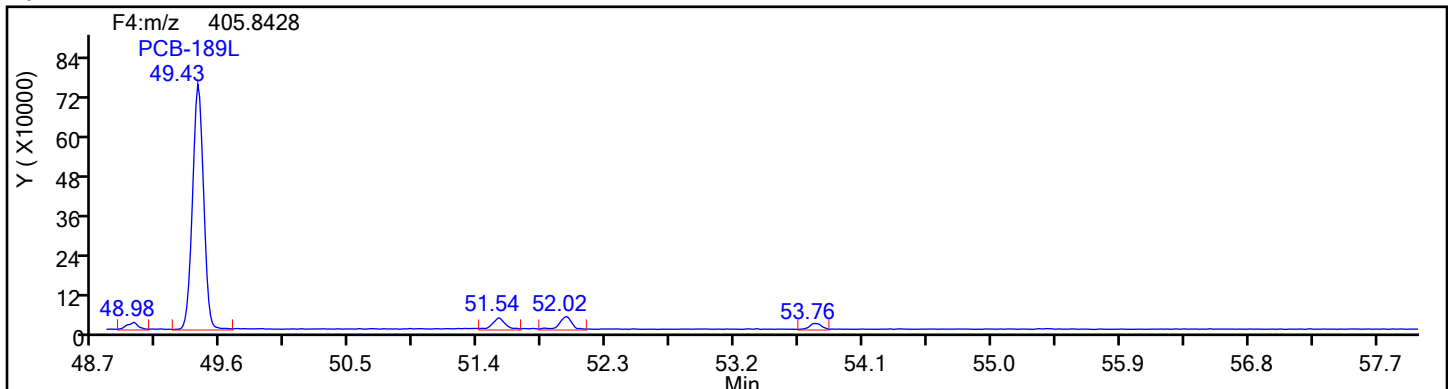


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

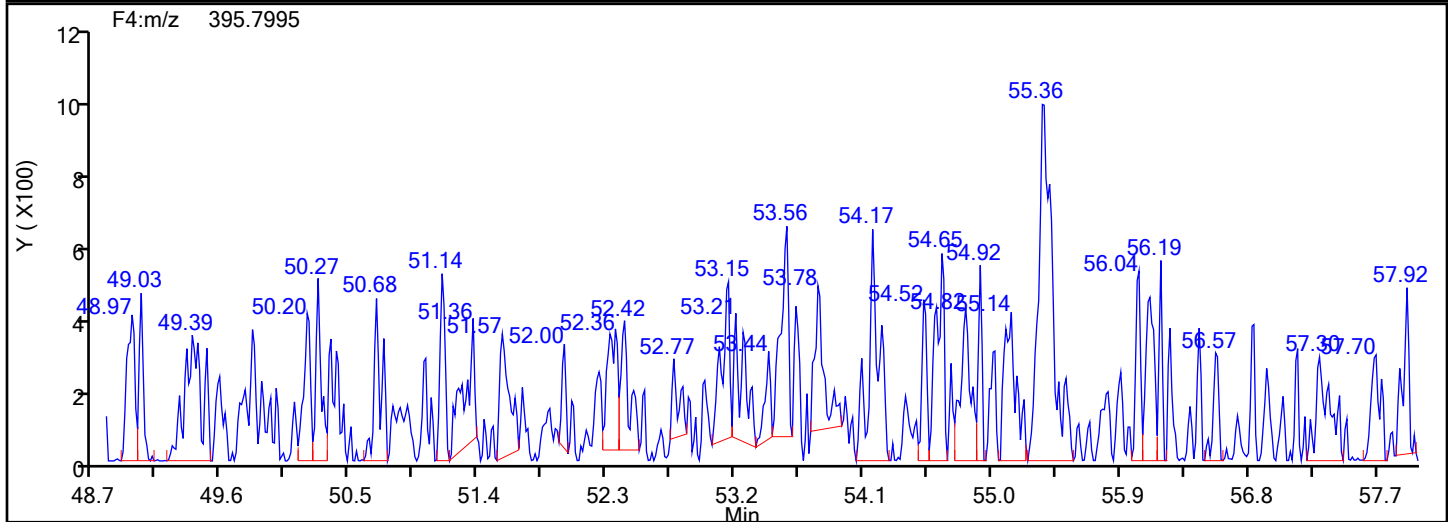
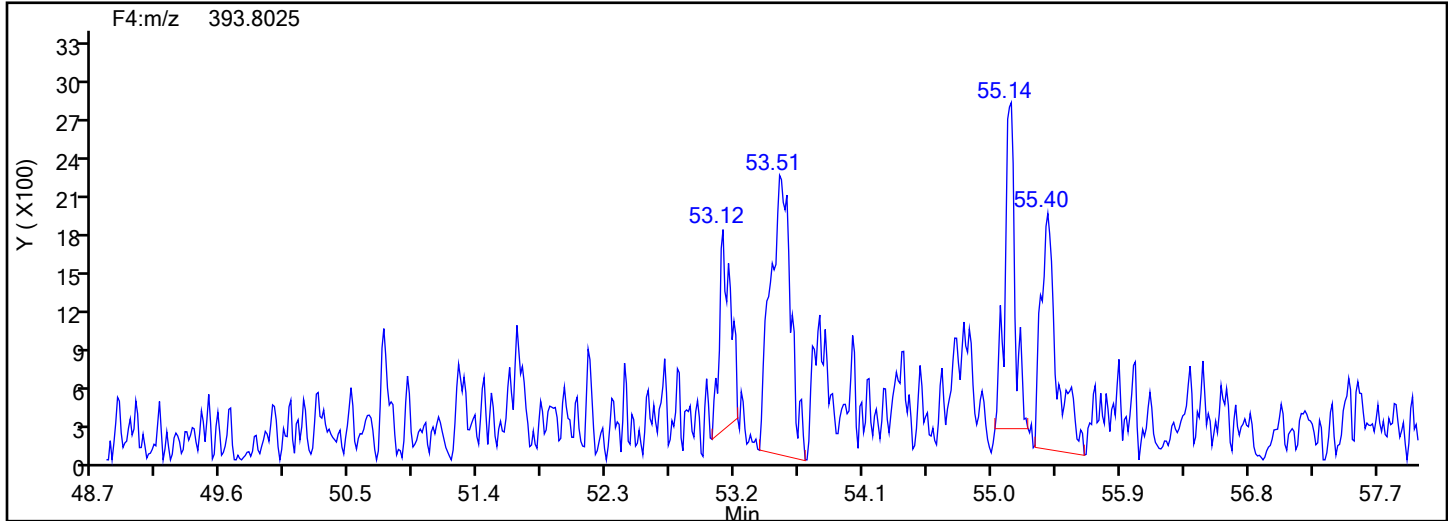


HpPCB F4 Standards

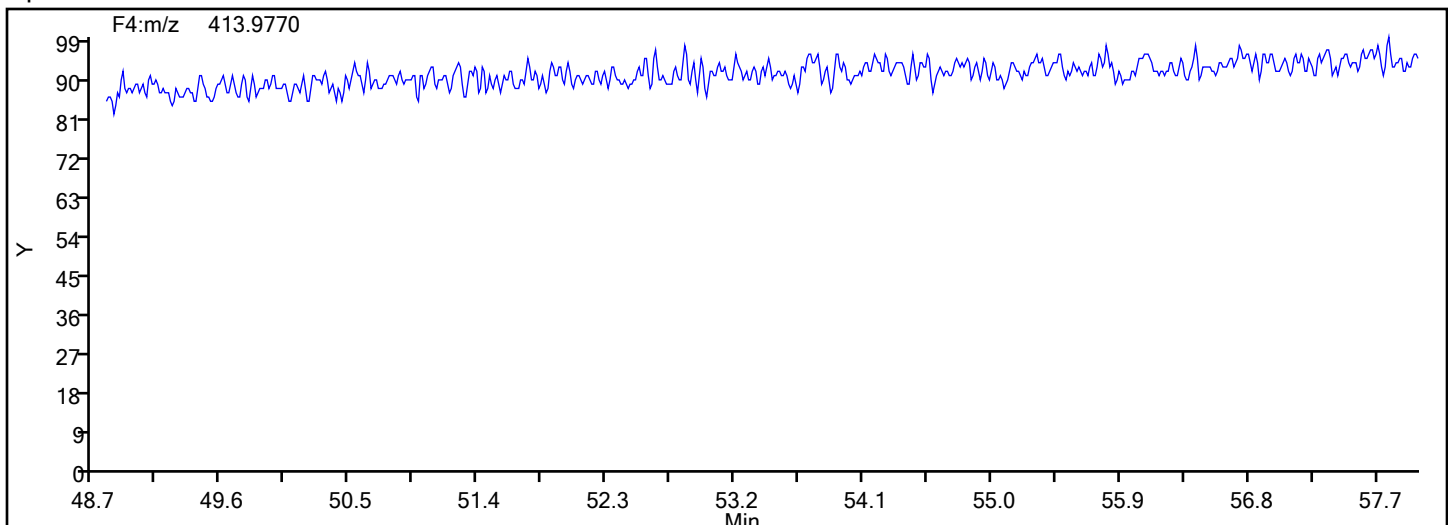


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d

Injection Date: 12-Jun-2024 06:37:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

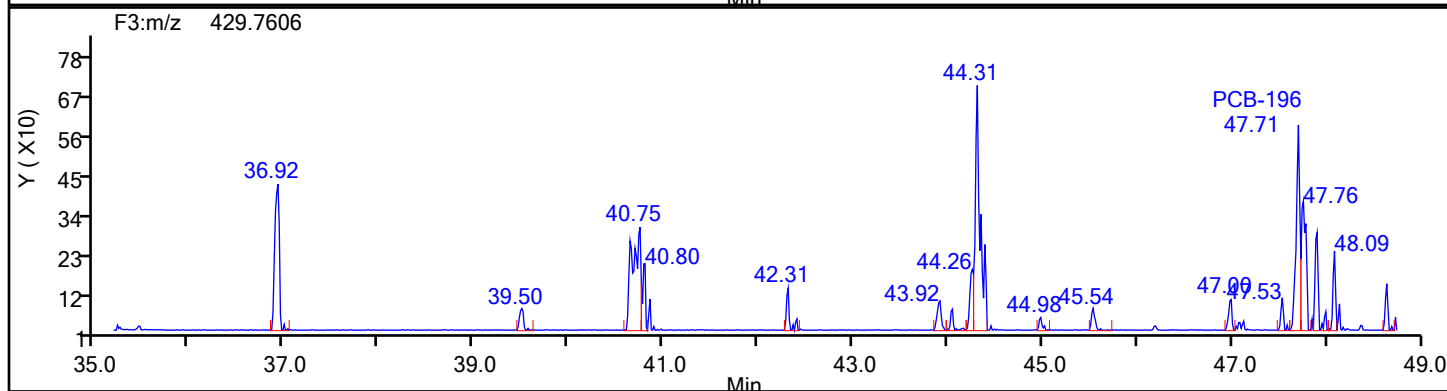
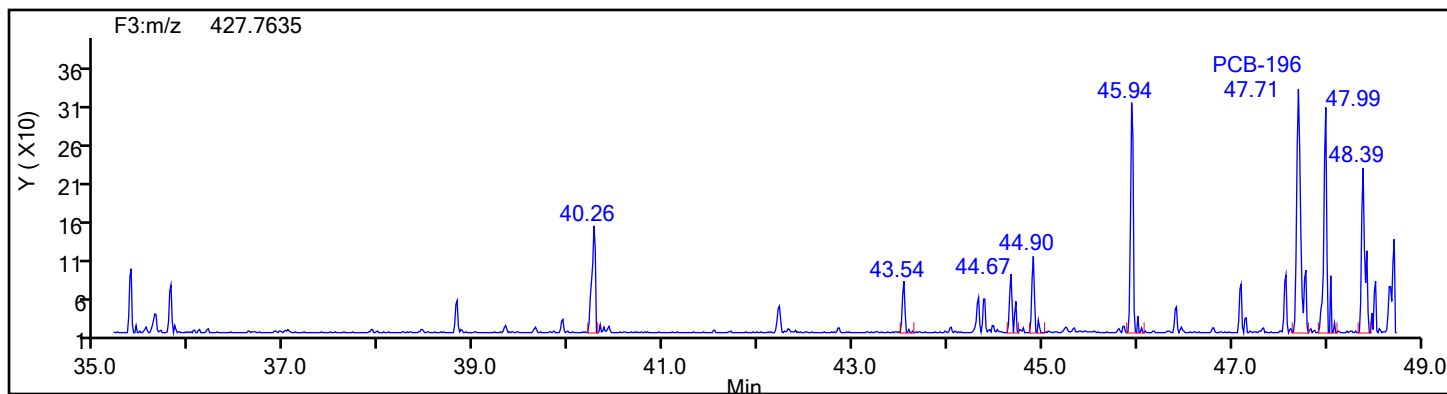
Worklist#: 87536

Sample Line#: 12

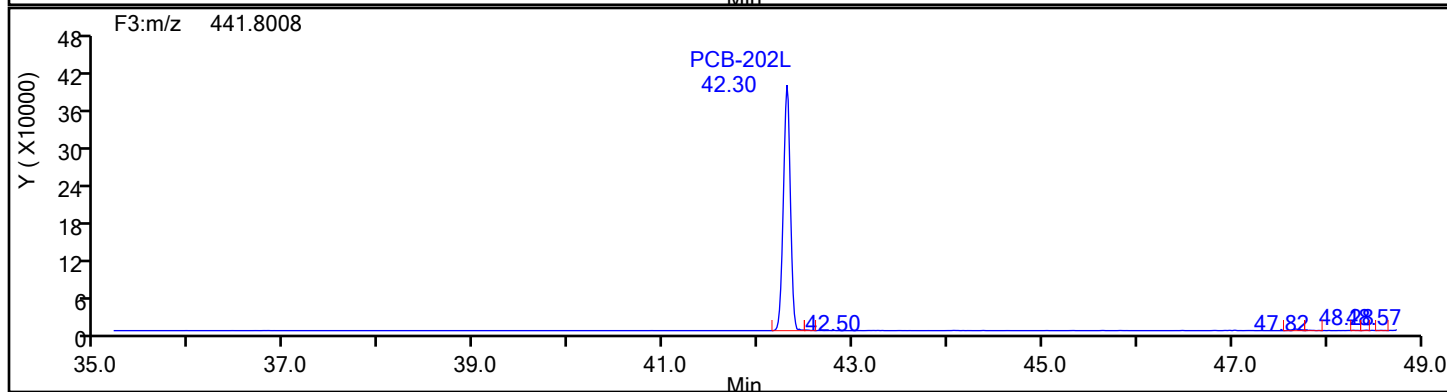
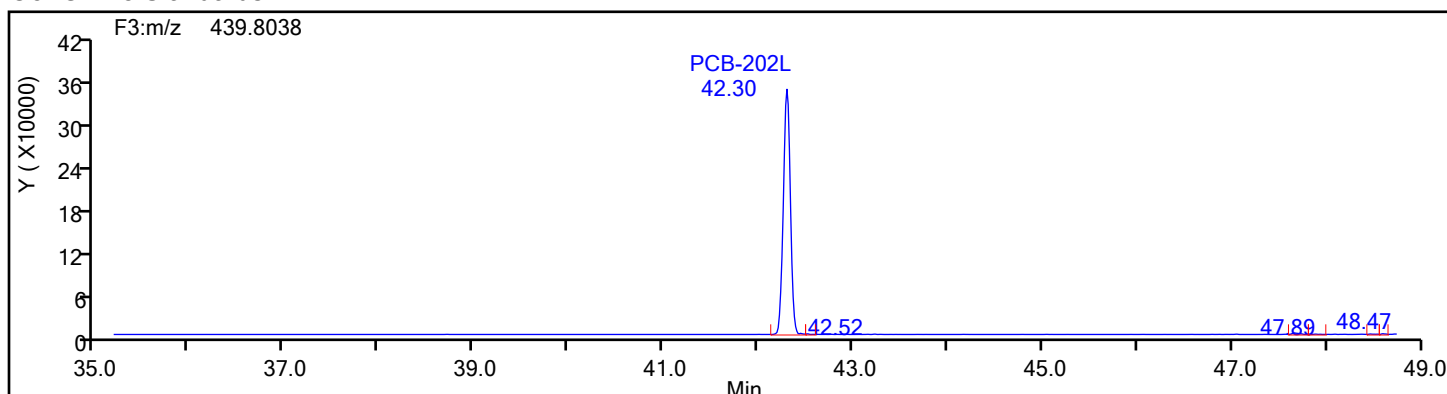
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d

Injection Date: 12-Jun-2024 06:37:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

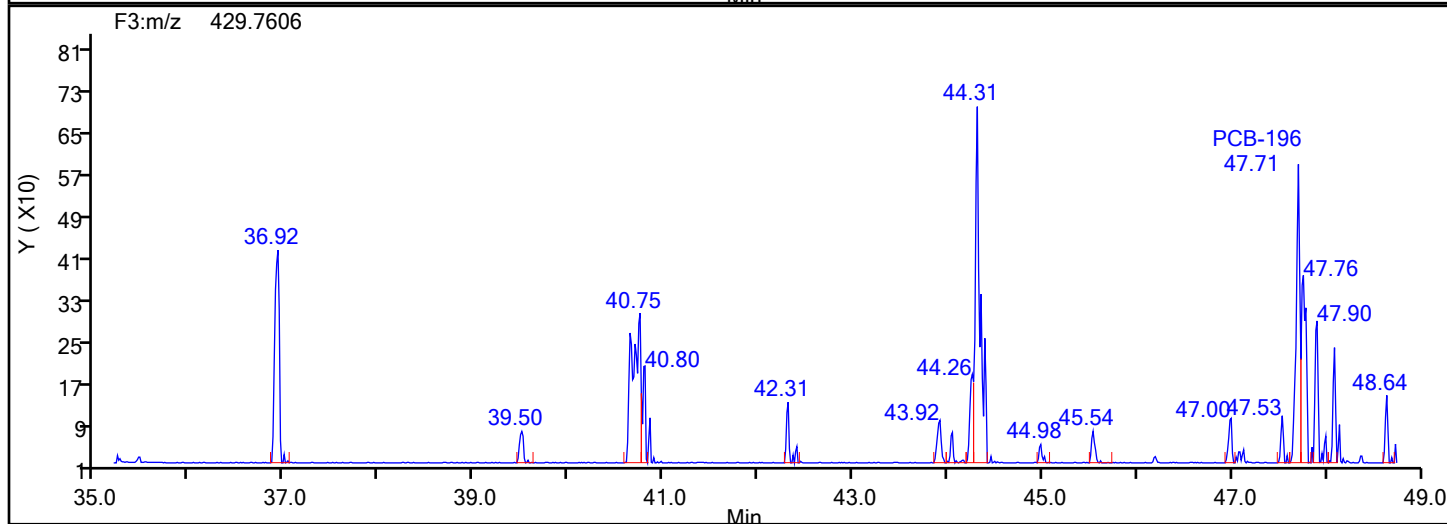
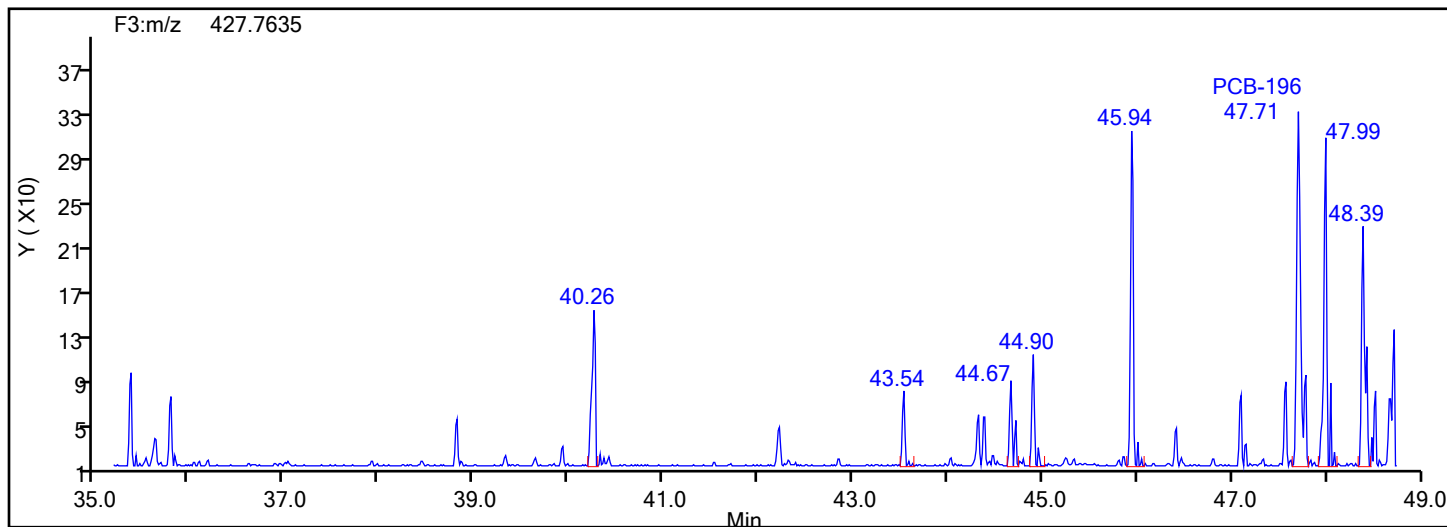
Worklist#: 87536

Sample Line#: 12

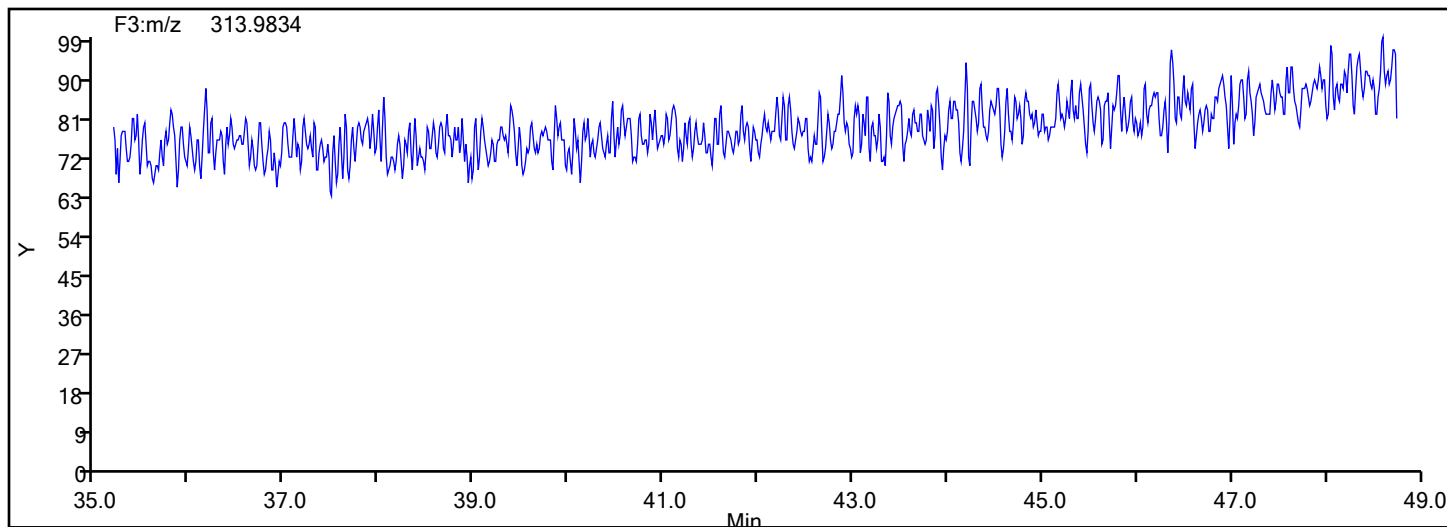
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

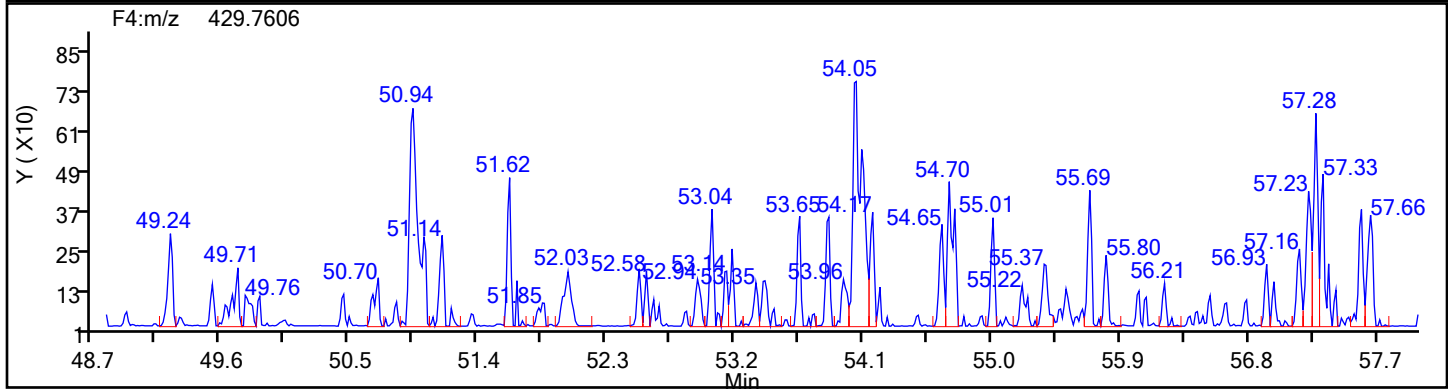
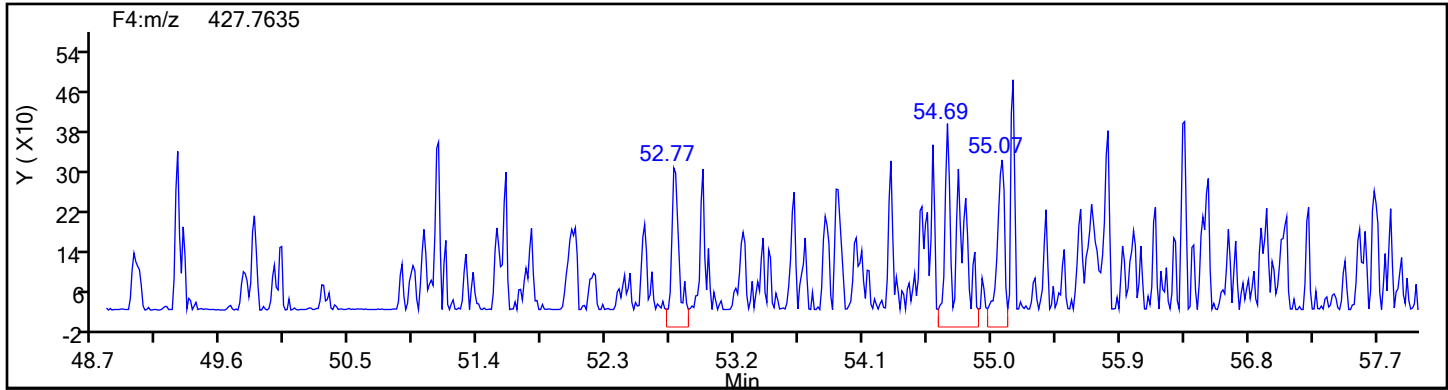


OcPCB F3 Lock Mass

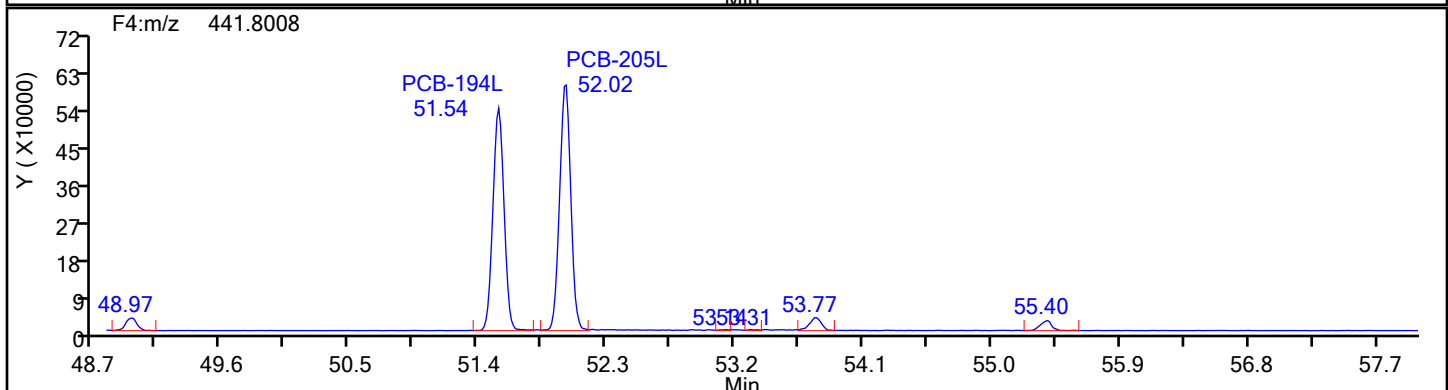
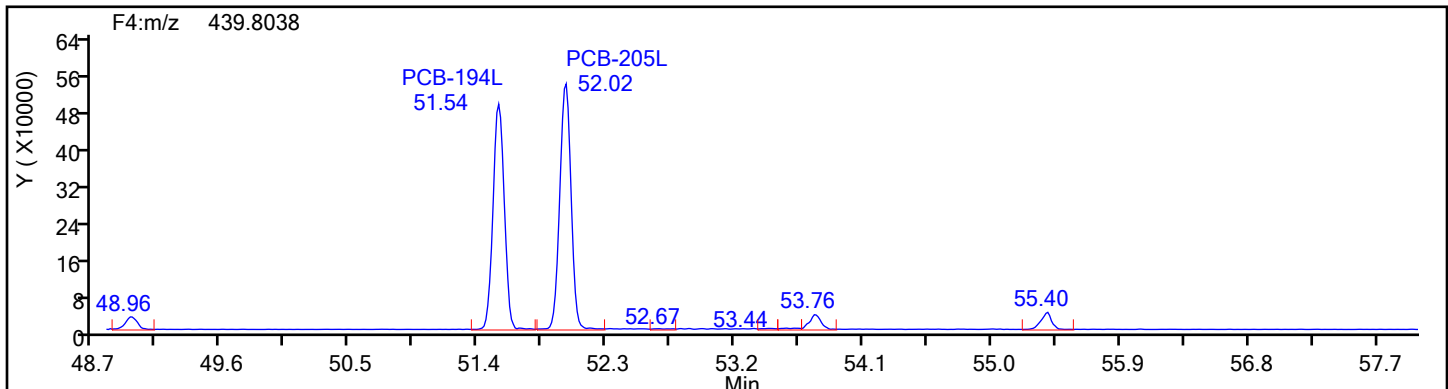


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

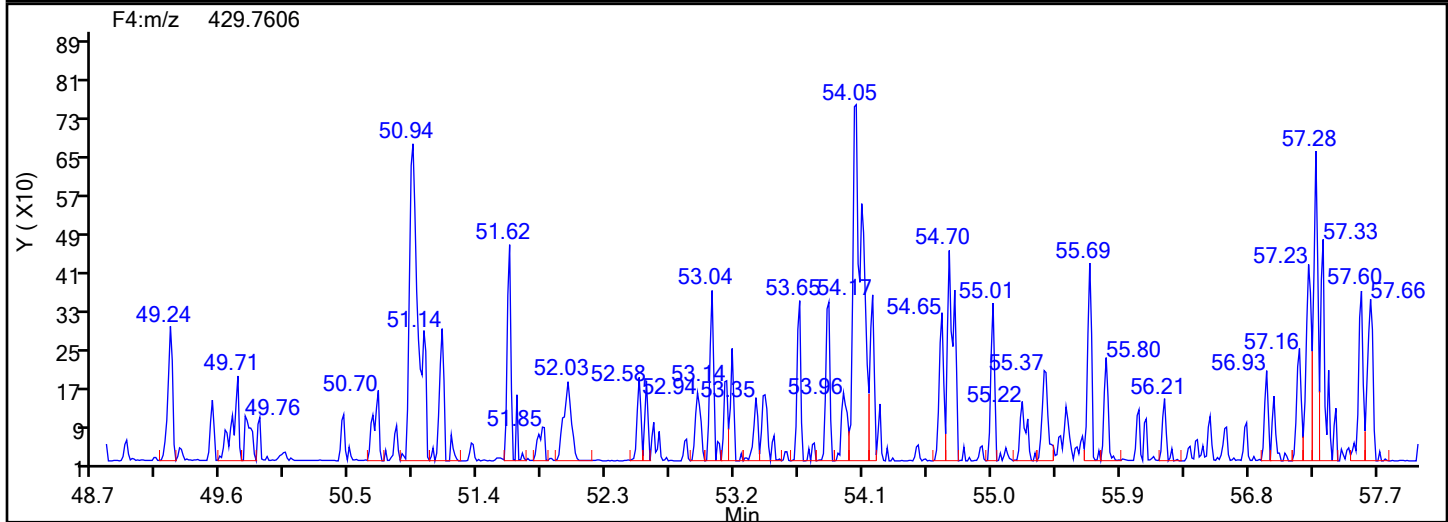
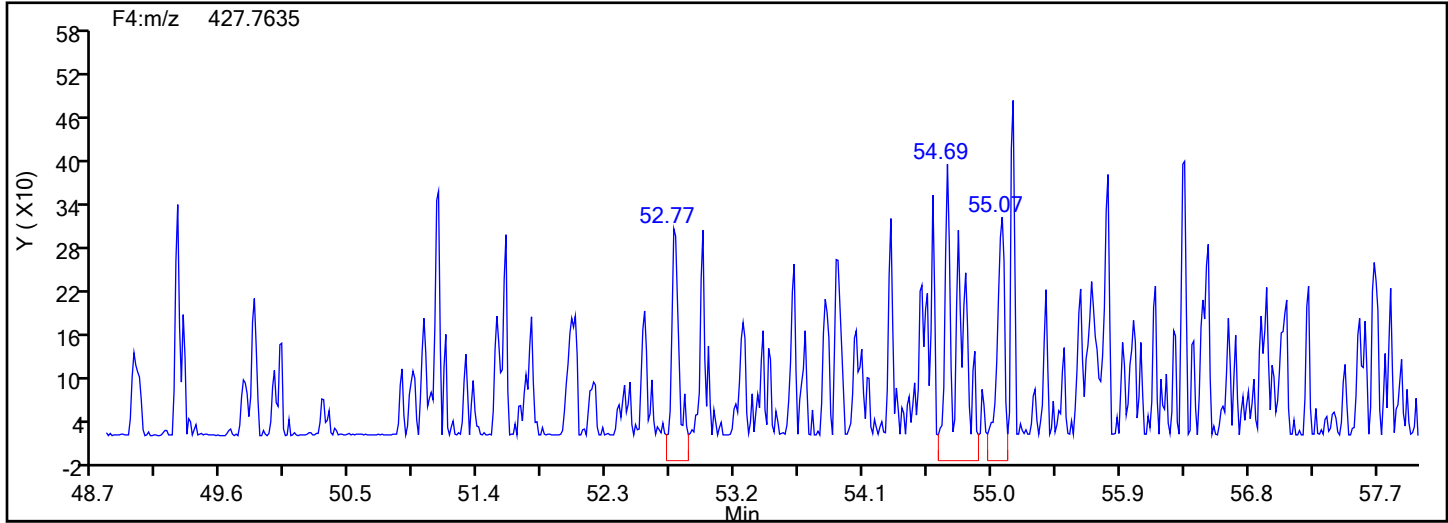


OcPCB F4 Standards

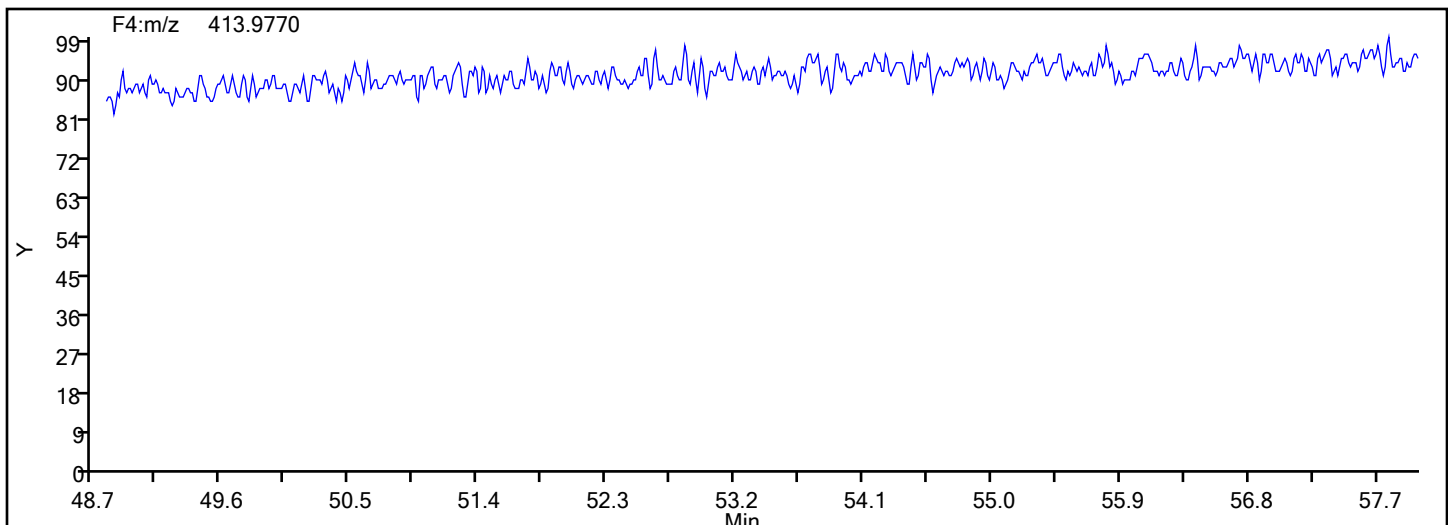


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Injection Date: 12-Jun-2024 06:37:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Worklist#: 87536 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d

Injection Date: 12-Jun-2024 06:37:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

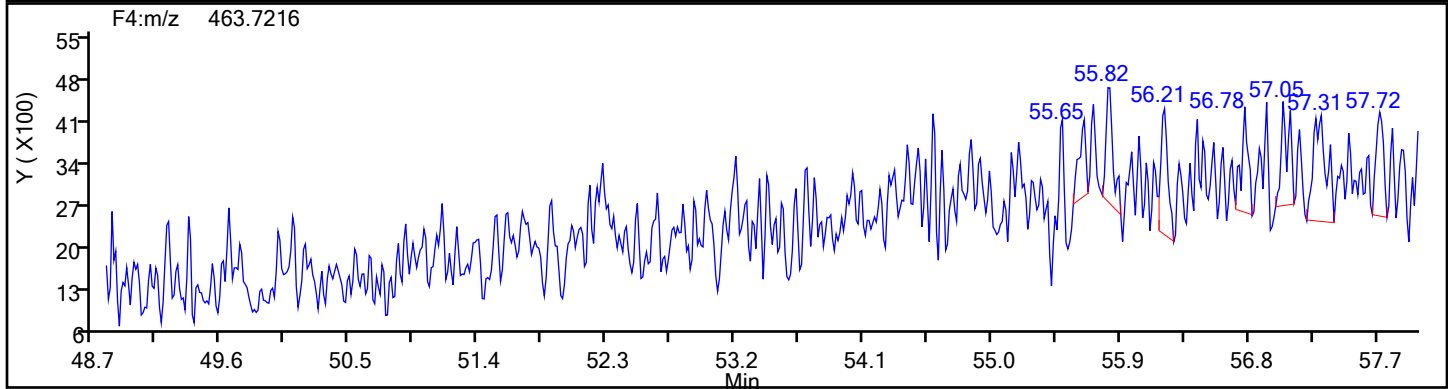
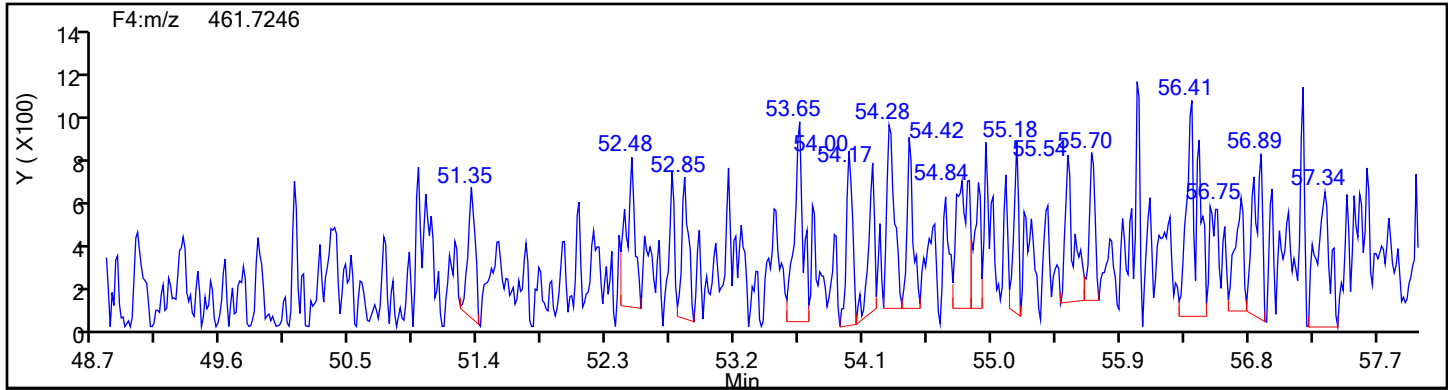
Worklist#: 87536

Sample Line#: 12

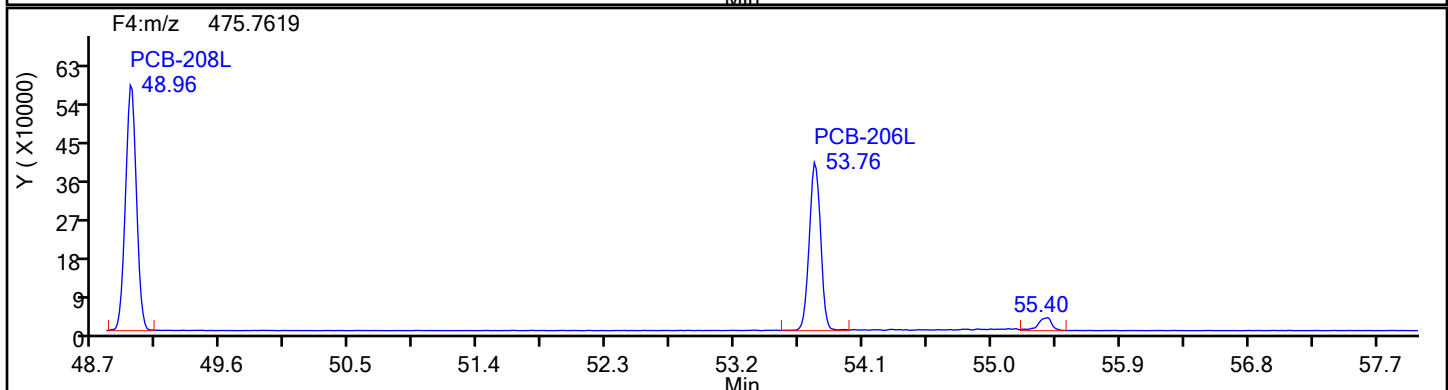
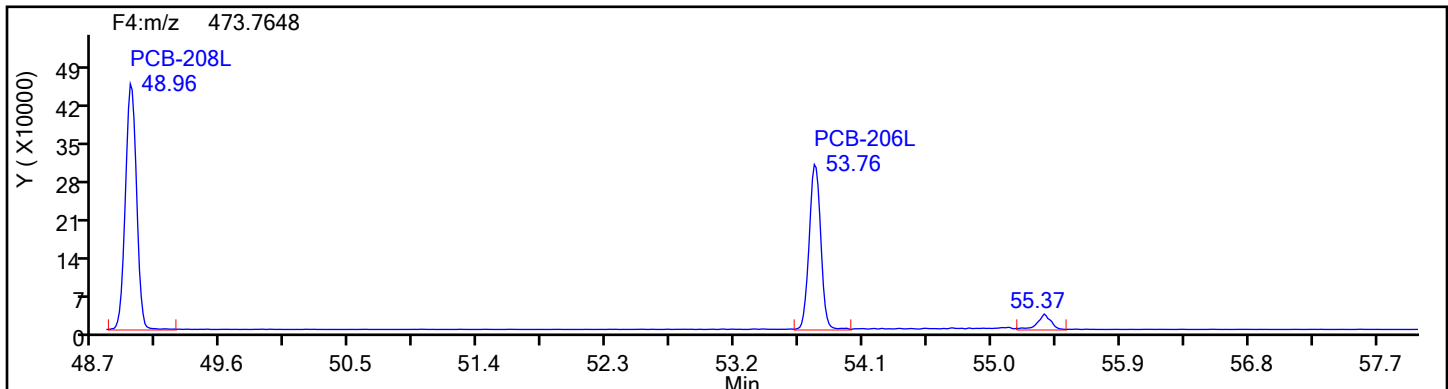
Column Type: SPB-Octyl

Column Dia: 0.25 mm

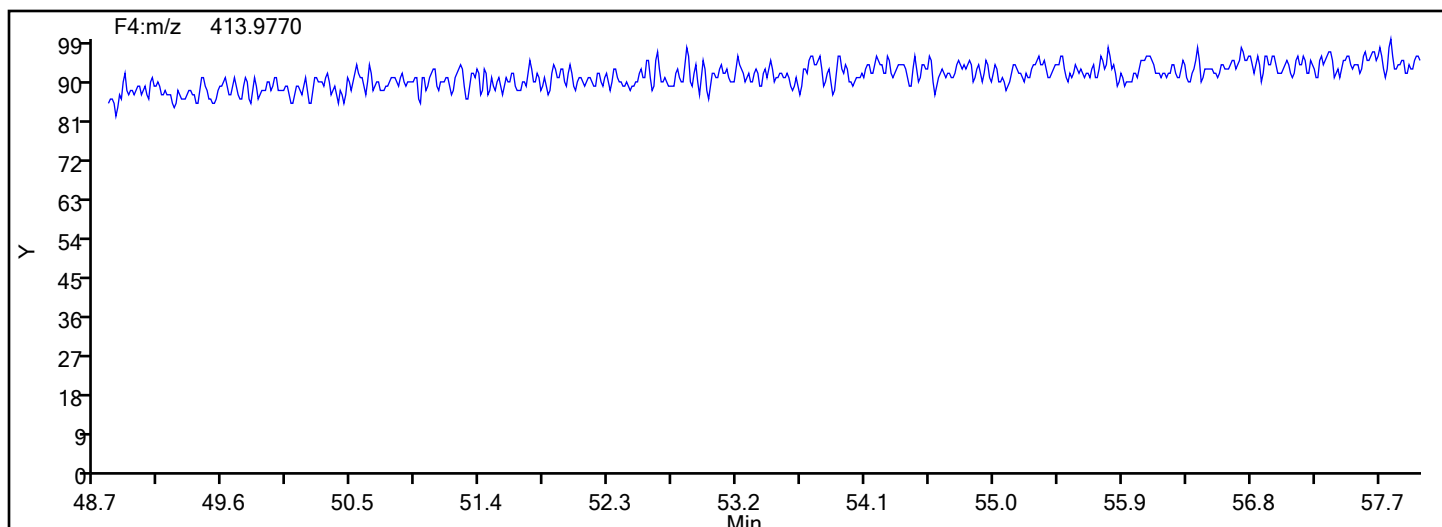
NoPCB F4



NoPCB F4 Standards



NoPCB F4



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d

Injection Date: 12-Jun-2024 06:37:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

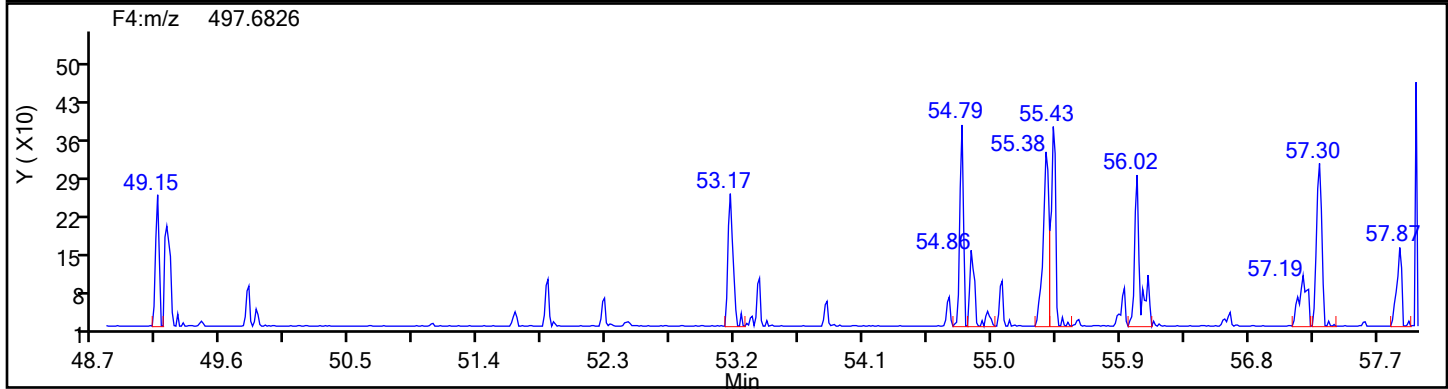
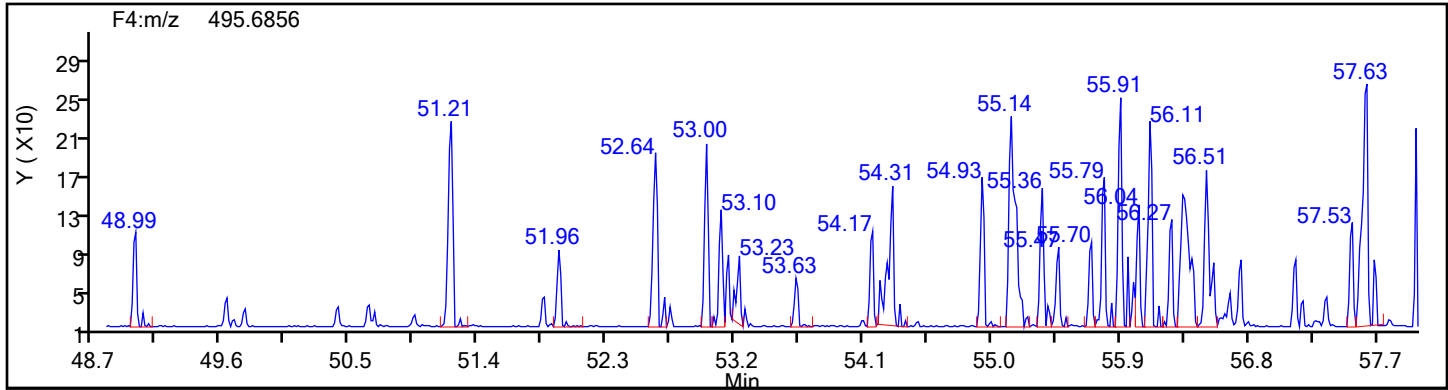
Worklist#: 87536

Sample Line#: 12

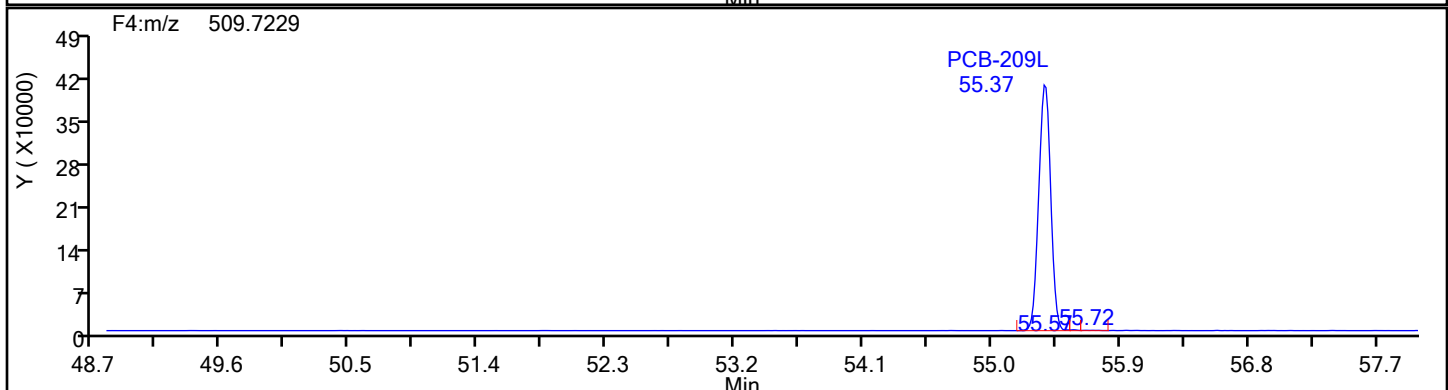
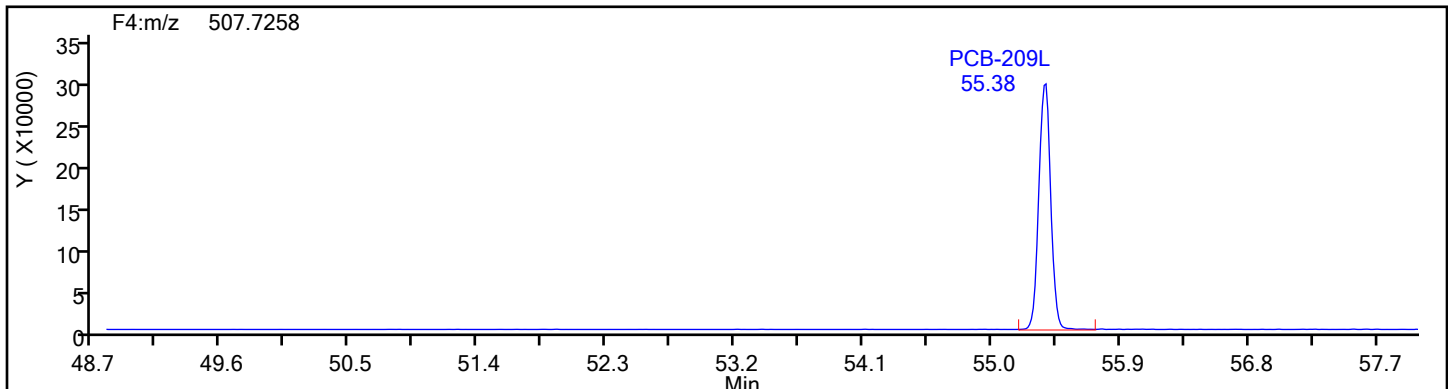
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d

Injection Date: 12-Jun-2024 06:37:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN 7 COMBINED

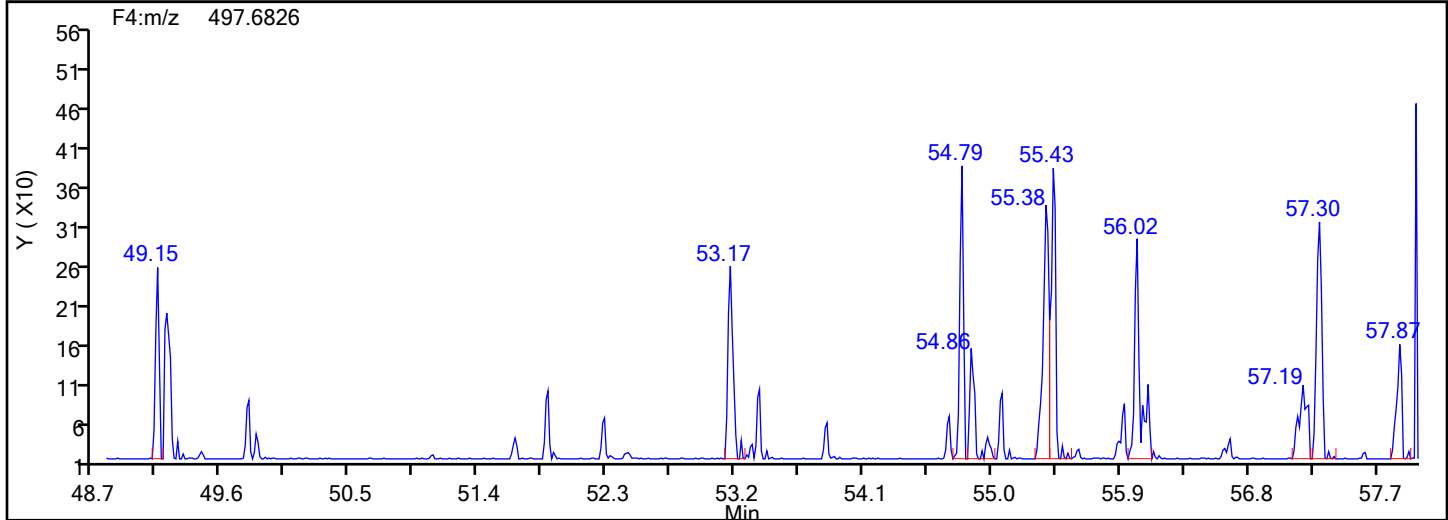
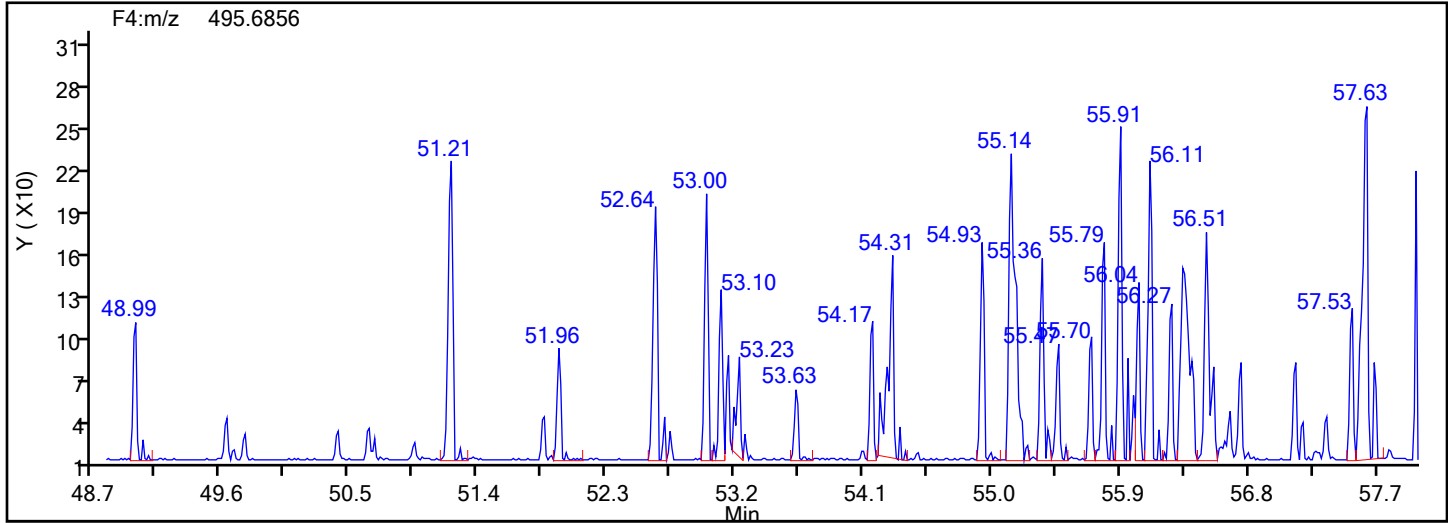
Worklist#: 87536

Sample Line#: 12

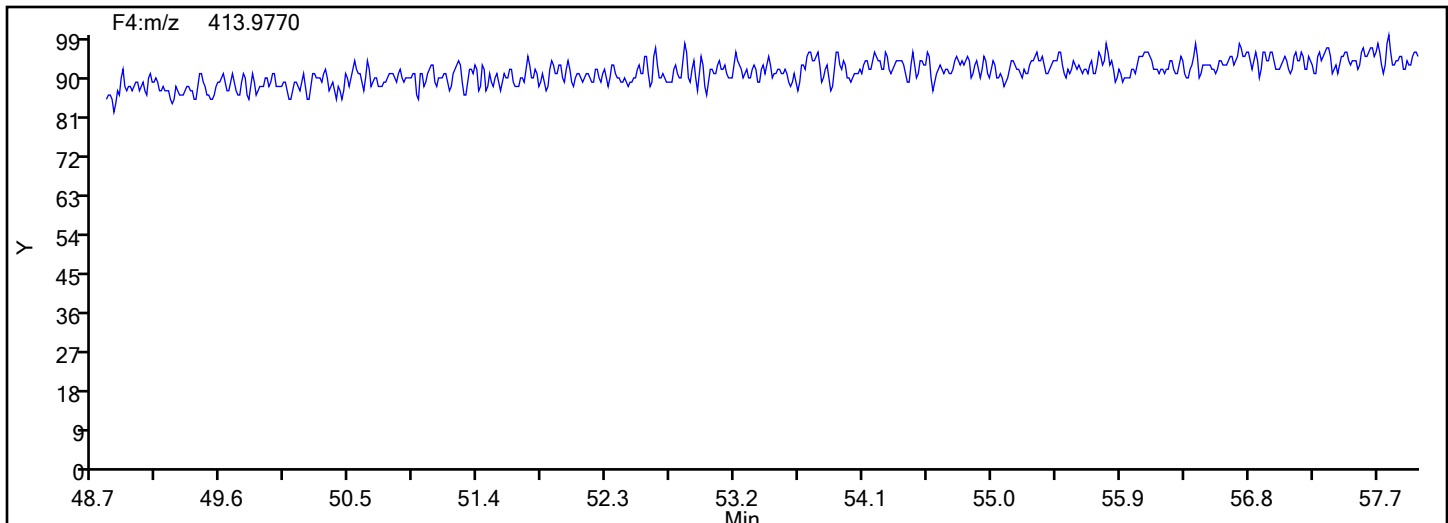
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-7-c.d
Lims ID: 140-36689-A-7-C
Client ID: M23-NO.3 BOILER-RUN 7 COMBINED
Sample Type: Client
Inject. Date: 12-Jun-2024 06:37:00 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033034-012
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 15:52:55 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1611

First Level Reviewer: P0IK

Date: 12-Jun-2024 15:52:55

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	29.7	88.97
PCB-28L	100.0	73.4	73.39
PCB-79L	33.3	33.0	98.86
PCB-95L	33.3	33.4	100.08
PCB-111L	100.0	82.6	82.57
PCB-153L	33.3	31.2	93.58
PCB-178L	100.0	83.2	83.21

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN FB COMBINED</u>	Lab Sample ID: <u>140-36689-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-8-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/08/2024 13:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/12/2024 07:39</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87536</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.202	J S	0.600	0.132	0.0132
37680-65-2	PCB-18	ND	C	0.600	0.285	0.00588
7012-37-5	PCB-28	0.269	J C20 B	0.600	0.252	0.00858
41464-39-5	PCB-44	1.96	C	0.900	0.390	0.0241
35693-99-3	PCB-52	0.162	J	0.300	0.132	0.0255
32598-10-0	PCB-66	0.0520	J	0.300	0.120	0.0186
32598-13-3	PCB-77	ND		0.300	0.126	0.0212
70362-50-4	PCB-81	ND		0.300	0.0960	0.0222
37680-73-2	PCB-101	0.0625	J q C90	0.900	0.390	0.00347
32598-14-4	PCB-105	ND		0.300	0.102	0.00747
74472-37-0	PCB-114	ND		0.300	0.165	0.00764
31508-00-6	PCB-118	0.0224	J q B	0.300	0.183	0.00662
65510-44-3	PCB-123	ND		0.300	0.171	0.00767
57465-28-8	PCB-126	ND		0.300	0.123	0.00815
38380-07-3	PCB-128	ND	C	0.600	0.204	0.00263
35065-28-2	PCB-138	0.0136	J q C129	1.20	0.510	0.00273
35065-27-1	PCB-153	0.0274	J q C B	0.600	0.249	0.00236
38380-08-4	PCB-156	ND	C	0.600	0.255	0.00285
69782-90-7	PCB-157	ND	C156	0.600	0.255	0.00285
52663-72-6	PCB-167	ND		0.300	0.180	0.00196
32774-16-6	PCB-169	0.00308	J q B	0.300	0.123	0.00186
35065-30-6	PCB-170	ND		0.300	0.132	0.000225
35065-29-3	PCB-180	0.00273	J q C	0.600	0.204	0.000174
52663-68-0	PCB-187	ND		0.300	0.126	0.000184
39635-31-9	PCB-189	ND		0.300	0.147	0.0212
52663-78-2	PCB-195	ND		0.300	0.159	0.00695
40186-72-9	PCB-206	ND		0.300	0.171	0.0551
2051-24-3	PCB-209	0.00903	J B	0.300	0.138	0.00113

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23-NO.3 BOILER-RUN FB COMBINED</u>	Lab Sample ID: <u>140-36689-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-8-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/08/2024 13:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/12/2024 07:39</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87536</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	49		20-145
208263-77-8	PCB-3L	53		20-145
234432-86-1	PCB-4L	57		20-145
208263-67-6	PCB-15L	32	S	20-145
234432-87-2	PCB-19L	57	S	20-145
208263-79-0	PCB-37L	73		20-145
234432-88-3	PCB-54L	66	S	20-145
105600-23-5	PCB-77L	76		20-145
208461-24-9	PCB-81L	74		20-145
234432-89-4	PCB-104L	86		20-145
208263-62-1	PCB-105L	88		20-145
208263-63-2	PCB-114L	87		20-145
104130-40-7	PCB-118L	86		20-145
208263-64-3	PCB-123L	88		20-145
208263-65-4	PCB-126L	87		20-145
234432-90-7	PCB-155L	89		20-145
208263-68-7	PCB-156L	84	C	20-145
235416-30-5	PCB-157L	84	C156	20-145
208263-69-8	PCB-167L	82		20-145
208263-70-1	PCB-169L	86		20-145
160901-80-4	PCB-170L	89		20-145
234432-91-8	PCB-188L	87		20-145
208263-73-4	PCB-189L	87		20-145
105600-26-8	PCB-202L	88		20-145
234446-64-1	PCB-205L	85		20-145
208263-75-6	PCB-206L	90		20-145
234432-92-9	PCB-208L	93		20-145
105600-27-9	PCB-209L	98		20-145

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Client Sample ID: M23-NO.3 BOILER-RUN FB Lab Sample ID: 140-36689-8
COMBINED
Matrix: Air Lab File ID: 140-36689-a-8-c.d
Analysis Method: 23 Date Collected: 05/08/2024 13:00
Extract. Method: Combined Prep Date Extracted: 05/31/2024 12:09
Sample wt/vol: 1(Sample) Date Analyzed: 06/12/2024 07:39
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 87536 Units: ng/Sample
Preparation Batch No.: 87206 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	69		20-130
235416-29-2	PCB-111L	77		20-130
232919-67-4	PCB-178L	78		20-130
STL01600	PCB-8L	87	S	70-130
STL01603	PCB-79L	100		70-130
STL01604	PCB-95L	104		70-130
STL01606	PCB-153L	92		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Lims ID: 140-36689-A-8-C
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Sample Type: Client
Inject. Date: 12-Jun-2024 07:39:00 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033034-013
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 17:14:01 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1667

First Level Reviewer: P0IK

Date: 12-Jun-2024 17:14:01

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					0.6496	0.6496	0.0294	0.0294		
D PCB-1L	11:31	5942266	3.01	1.6108	49.1	49.1	0.4304	0.4304	49.07	
D PCB-3L	13:39	6370951	3.19	1.5891	53.3	53.3	0.4362	0.4362	53.33	
PCB-1	11:33						0.0274	0.0274		
PCB-2	13:30	17826	2.73	1.1805	0.2453	0.2453	0.0300	0.0300		M
PCB-3	13:40	31440	3.36	1.2206	0.4043	0.4043	0.0309	0.0309		M
S Total Dichlorobiphenyls					13.4	13.3	0.0513	0.0513		RQ
D PCB-4L	13:54	2775378	1.59	0.6475	57.0	57.0	0.2162	0.2162	57.01	
* PCB-9L	15:55	7517640	1.58		100.0	100.0				
\$ PCB-8L	16:48	942144	1.56	1.2066	29.0	29.0	0.2706	0.2706	87.12	a
D PCB-15L	20:03	2602421	1.58	1.0789	32.1	32.1	0.1298	0.1298	32.08	a
PCB-4	13:57						0.0455	0.0455		
PCB-10	14:07						0.0533	0.0533		
PCB-9	15:54						0.0493	0.0493		
PCB-7	16:04	15065	1.56	1.4134	0.4632	0.3964	0.0496	0.0496		RQM
PCB-6	16:18						0.0454	0.0454		
PCB-5	16:36						0.0523	0.0523		
PCB-8	16:50	28792	1.59	1.5889	0.6739	0.6739	0.0441	0.0441		M
PCB-14	18:20						0.0500	0.0500		
PCB-11	19:27	416481	1.62	1.2951	12.0	12.0	0.0541	0.0541		a
PCB-12	19:27						0.0524	0.0524		U
PCB-13 (C12)	19:27						0.0524	0.0524		U
PCB-15	20:05	10157	1.62	1.2903	0.3025	0.3025	0.0680	0.0680		a
S Total Trichlorobiphenyls					3.170	2.632	0.0273	0.0273		RQ
D PCB-19L	17:07	1596711	1.05	0.6285	57.5	57.5	0.6148	0.6148	57.46	
* PCB-32L	20:29	4420877	1.08		100.0	100.0				a
* PCB-31L	22:37	13551420	1.07		100.0	100.0				
\$ PCB-28L	22:54	9795064	1.06	1.0494	68.9	68.9	0.1502	0.1502	68.88	
D PCB-37L	26:50	8616489	1.09	0.8749	72.7	72.7	0.1801	0.1801	72.67	
PCB-19	17:09	679	1.04	1.2809	0.0452	0.0332	0.0270	0.0270		RQ
PCB-18	18:51						0.0196	0.0196		
PCB-30 (C18)	18:51						0.0196	0.0196		
PCB-17	19:18						0.0278	0.0278		
PCB-27	19:31						0.0189	0.0189		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:46	1852	1.04	1.6777	0.0775	0.0691	0.0206	0.0206		RQ
PCB-16	19:46						0.0306	0.0306		
PCB-32	20:30	7395	1.04	1.8324	0.3128	0.2527	0.0189	0.0189		RQa
PCB-34	21:31						0.0297	0.0297		
PCB-23	21:41						0.0310	0.0310		
PCB-26	22:06	17491	1.04	1.1255	0.2849	0.1804	0.0298	0.0298		RQM
PCB-29 (C26)	22:06	17491	1.04	1.1255	0.2849	0.1804	0.0298	0.0298		RQM
PCB-25	22:13						0.0263	0.0263		
PCB-31	22:31						0.0291	0.0291		
PCB-20	22:56	90596	1.02	1.1718	0.8973	0.8973	0.0286	0.0286		M
PCB-28 (C20)	22:56	90596	1.02	1.1718	0.8973	0.8973	0.0286	0.0286		M
PCB-21	23:10	56868	1.04	1.0746	0.8279	0.6142	0.0312	0.0312		RQM
PCB-33 (C21)	23:10	56868	1.04	1.0746	0.8279	0.6142	0.0312	0.0312		RQM
PCB-22	23:32	32031	1.04	1.1932	0.4043	0.3115	0.0281	0.0281		RQ
PCB-36	25:00						0.0303	0.0303		
PCB-39	25:22						0.0289	0.0289		
PCB-38	25:56						0.0309	0.0309		
PCB-35	26:28	12328	1.04	1.1297	0.1450	0.1266	0.0297	0.0297		RQ
PCB-37	26:51	14433	1.04	1.1435	0.1757	0.1465	0.0293	0.0293		RQ
S Total Tetrachlorobiphenyls					11.3	11.2	0.0710	0.0710		RQ
D PCB-54L	20:20	1623382	0.80	0.5562	66.0	66.0	0.0568	0.0568	66.02	a
* PCB-52L	24:42	6636310	0.80		100.0	100.0				
\$ PCB-79L	32:32	2129004	0.83	1.0018	33.2	33.2	0.2490	0.2490	99.74	
D PCB-81L	33:31	6157631	0.81	1.2470	74.4	74.4	0.1723	0.1723	74.41	
D PCB-77L	34:05	6625799	0.81	1.3212	75.6	75.6	0.1626	0.1626	75.57	
PCB-54	20:06						0.008198	0.008198		
PCB-50	22:16						0.0911	0.0911		
PCB-53 (C50)	22:16						0.0911	0.0911		
PCB-45	23:06	100766	0.87	0.8264	1.908	1.908	0.0946	0.0946		a
PCB-51 (C45)	23:06	100766	0.87	0.8264	1.908	1.908	0.0946	0.0946		a
PCB-46	23:14						0.1101	0.1101		
PCB-52	24:42	31690	0.76	0.9194	0.5392	0.5392	0.0850	0.0850		a
PCB-43	24:48						0.0756	0.0756		
PCB-73 (C43)	24:48						0.0756	0.0756		
PCB-49	25:13	22959	0.77	1.0685	0.4632	0.3362	0.0732	0.0732		RQa
PCB-69 (C49)	25:13	22959	0.77	1.0685	0.4632	0.3362	0.0732	0.0732		RQa
PCB-48	25:25						0.0931	0.0931		
PCB-44	25:45	405448	0.76	0.9731	6.519	6.519	0.0803	0.0803		a
PCB-47 (C44)	25:45	405448	0.76	0.9731	6.519	6.519	0.0803	0.0803		a
PCB-65 (C44)	25:45	405448	0.76	0.9731	6.519	6.519	0.0803	0.0803		a
PCB-59	25:58						0.0659	0.0659		
PCB-62 (C59)	25:58						0.0659	0.0659		
PCB-75 (C59)	25:58						0.0659	0.0659		
PCB-42	26:10						0.0965	0.0965		
PCB-40	26:40						0.0882	0.0882		
PCB-41 (C40)	26:40						0.0882	0.0882		
PCB-71 (C40)	26:40						0.0882	0.0882		
PCB-64	26:54	20789	0.69	1.1776	0.2762	0.2762	0.0664	0.0664		
PCB-72	27:43						0.0714	0.0714		
PCB-68	28:01	80841	0.75	1.2533	1.009	1.009	0.0624	0.0624		
PCB-57	28:25						0.0723	0.0723		
PCB-58	28:40						0.0590	0.0590		
PCB-67	28:49						0.0549	0.0549		
PCB-63	29:05						0.0695	0.0695		
PCB-61	29:27	33750	0.75	1.2612	0.4187	0.4187	0.0620	0.0620		
PCB-70 (C61)	29:27	33750	0.75	1.2612	0.4187	0.4187	0.0620	0.0620		
PCB-74 (C61)	29:27	33750	0.75	1.2612	0.4187	0.4187	0.0620	0.0620		
PCB-76 (C61)	29:27	33750	0.75	1.2612	0.4187	0.4187	0.0620	0.0620		
PCB-66	29:46	13928	0.66	1.2583	0.1732	0.1732	0.0621	0.0621		
PCB-55	29:54						0.0591	0.0591		
PCB-56	30:25						0.0634	0.0634		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:37						0.0696	0.0696		
PCB-80	31:03						0.0590	0.0590		
PCB-79	32:34						0.0544	0.0544		
PCB-78	33:07						0.0673	0.0673		
PCB-81	33:33						0.0739	0.0739		
PCB-77	34:07						0.0707	0.0707		
S Total Pentachlorobiphenyls					1.093	0.9562	0.0161	0.0161		RQ
D PCB-104L	25:37	4487294	1.65	1.2161	85.9	85.9	0.0604	0.0604	85.87	
\$ PCB-95L	28:33	1127944	1.57	0.7218	34.8	34.8	0.0939	0.0939	104	
* PCB-101L	31:28	4297069	1.58		100.0	100.0				
\$ PCB-111L	34:08	4509844	1.57	1.3699	76.6	76.6	0.0536	0.0536	76.61	
D PCB-123L	36:05	6371305	1.56	0.9731	87.7	87.7	1.131	1.131	87.65	
D PCB-118L	36:25	6512769	1.59	1.0102	86.3	86.3	1.090	1.090	86.31	
D PCB-114L	36:56	6449979	1.61	0.9949	86.8	86.8	1.106	1.106	86.80	
D PCB-105L	37:35	6222781	1.57	0.9514	87.6	87.6	1.157	1.157	87.56	
* PCB-127L	39:03	7469572	1.58		100.0	100.0				
D PCB-126L	40:40	6130331	1.60	0.9439	87.0	87.0	1.166	1.166	86.95	
PCB-104	25:36						0.0109	0.0109		
PCB-96	25:58						0.0101	0.0101		
PCB-103	27:54						0.0126	0.0126		
PCB-94	28:07						0.0144	0.0144		
PCB-95	28:35	6706	1.66	0.8033	0.1860	0.1860	0.0137	0.0137		M
PCB-93	28:47						0.0131	0.0131		
PCB-100 (C93)	28:47						0.0131	0.0131		
PCB-98	28:56	731	1.55	0.8262	0.0550	0.0197	0.0134	0.0134		RQ
PCB-102 (C98)	28:56	731	1.55	0.8262	0.0550	0.0197	0.0134	0.0134		RQ
PCB-88	29:26	2934	1.55	0.8013	0.0878	0.0816	0.0138	0.0138		RQM
PCB-91 (C88)	29:26	2934	1.55	0.8013	0.0878	0.0816	0.0138	0.0138		RQM
PCB-84	29:38	3506	1.55	0.7299	0.1255	0.1070	0.0151	0.0151		RQM
PCB-89	30:12						0.0142	0.0142		RQU
PCB-121	30:35	232	1.55	1.2964	0.0187	0.003988	0.008515	0.008515		RQM
PCB-92	30:55						0.0129	0.0129		
PCB-90	31:29	8921	1.55	0.9550	0.2279	0.2082	0.0116	0.0116		RQ
PCB-101 (C90)	31:29	8921	1.55	0.9550	0.2279	0.2082	0.0116	0.0116		RQ
PCB-113 (C90)	31:29	8921	1.55	0.9550	0.2279	0.2082	0.0116	0.0116		RQ
PCB-83	32:04	5041	1.34	0.8385	0.1340	0.1340	0.0132	0.0132		
PCB-99 (C83)	32:04	5041	1.34	0.8385	0.1340	0.1340	0.0132	0.0132		
PCB-112	32:11						0.007823	0.007823		
PCB-86	32:40						0.0105	0.0105		RQU
PCB-87 (C86)	32:40						0.0105	0.0105		RQU
PCB-97 (C86)	32:40						0.0105	0.0105		RQU
PCB-109 (C86)	32:40						0.0105	0.0105		RQU
PCB-119 (C86)	32:40						0.0105	0.0105		RQU
PCB-125 (C86)	32:40						0.0105	0.0105		RQU
PCB-85	33:16						0.0106	0.0106		RQU
PCB-116 (C85)	33:16						0.0106	0.0106		RQU
PCB-117 (C85)	33:16						0.0106	0.0106		RQU
PCB-110	33:28	7545	1.55	1.1919	0.1550	0.1411	0.009262	0.009262		RQM
PCB-115 (C110)	33:28	7545	1.55	1.1919	0.1550	0.1411	0.009262	0.009262		RQM
PCB-82	33:47						0.0133	0.0133		
PCB-111	34:10						0.009104	0.009104		
PCB-120	34:37						0.007478	0.007478		
PCB-108	35:46						0.0247	0.0247		
PCB-124 (C108)	35:46						0.0247	0.0247		
PCB-107	36:00						0.0232	0.0232		
PCB-123	36:07						0.0256	0.0256		
PCB-106	36:14						0.0260	0.0260		
PCB-118	36:26	5859	1.55	1.2055	0.1035	0.0746	0.0221	0.0221		RQM
PCB-122	36:47						0.0294	0.0294		
PCB-114	36:58						0.0255	0.0255		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:37						0.0249	0.0249		
PCB-127	39:06						0.0247	0.0247		
PCB-126	40:42						0.0272	0.0272		
S Total Hexachlorobiphenyls					0.2962	0.2328	0.007468	0.007468		RQ
D PCB-155L	31:14	4130111	1.29	1.0851	88.6	88.6	0.0386	0.0386	88.57	
\$ PCB-153L	38:17	1540338	1.25	0.9169	30.7	30.7	0.4254	0.4254	91.96	
* PCB-138L	39:32	5292019	1.30		100.0	100.0				
D PCB-167L	42:32	5458768	1.27	1.2572	82.0	82.0	0.2693	0.2693	82.05	
D PCB-156L	43:40	10814022	1.29	1.2106	168.8	168.8	0.2797	0.2797	84.40	
D PCB-157L (C156L)	43:40	10814022	1.29	1.2106	168.8	168.8	0.2797	0.2797	84.40	
D PCB-169L	46:54	5648063	1.27	1.2439	85.8	85.8	0.2722	0.2722	85.80	
PCB-155	31:16						0.003067	0.003067		
PCB-152	31:27						0.002927	0.002927		
PCB-150	31:37						0.002858	0.002858		
PCB-136	31:59						0.002863	0.002863		
PCB-145	32:16						0.002991	0.002991		
PCB-148	33:48						0.003810	0.003810		
PCB-135	34:22						0.003992	0.003992		
PCB-151 (C135)	34:22						0.003992	0.003992		
PCB-154	34:38						0.003563	0.003563		
PCB-144	34:57						0.003688	0.003688		
PCB-147	35:21	2230	1.24	0.8950	0.0551	0.0455	0.009614	0.009614		RQM
PCB-149 (C147)	35:21	2230	1.24	0.8950	0.0551	0.0455	0.009614	0.009614		RQM
PCB-134	35:36						0.0108	0.0108		
PCB-143 (C134)	35:36						0.0108	0.0108		
PCB-139	35:54						0.009813	0.009813		
PCB-140 (C139)	35:54						0.009813	0.009813		
PCB-131	36:06						0.0115	0.0115		
PCB-142	36:15						0.0115	0.0115		
PCB-132	36:34	1656	1.24	0.7489	0.0455	0.0403	0.0115	0.0115		RQM
PCB-133	37:04						0.0106	0.0106		
PCB-165	37:28						0.008397	0.008397		
PCB-146	37:43						0.008929	0.008929		
PCB-161	37:51						0.007623	0.007623		
PCB-153	38:19	5470	1.24	1.0938	0.1128	0.0913	0.007867	0.007867		RQ
PCB-168 (C153)	38:19	5470	1.24	1.0938	0.1128	0.0913	0.007867	0.007867		RQ
PCB-141	38:31						0.009828	0.009828		
PCB-130	38:55						0.0122	0.0122		
PCB-137	39:09						0.0111	0.0111		
PCB-164	39:16						0.008287	0.008287		
PCB-129	39:33	2356	1.24	0.9464	0.0716	0.0454	0.009092	0.009092		RQM
PCB-138 (C129)	39:33	2356	1.24	0.9464	0.0716	0.0454	0.009092	0.009092		RQM
PCB-160 (C129)	39:33	2356	1.24	0.9464	0.0716	0.0454	0.009092	0.009092		RQM
PCB-163 (C129)	39:33	2356	1.24	0.9464	0.0716	0.0454	0.009092	0.009092		RQM
PCB-158	39:57						0.006563	0.006563		
PCB-128	40:48						0.008754	0.008754		
PCB-166 (C128)	40:48						0.008754	0.008754		
PCB-159	41:48						0.006210	0.006210		
PCB-162	42:05						0.006845	0.006845		
PCB-167	42:34						0.006538	0.006538		
PCB-156	43:42						0.009507	0.009507		
PCB-157 (C156)	43:42						0.009507	0.009507		
PCB-169	46:58	674	1.24	1.1628	0.0112	0.0103	0.006215	0.006215		RQ
S Total Heptachlorobiphenyls					0.1694	0.0937	0.003960	0.003960		RQ
D PCB-188L	36:56	4693943	1.08	1.3133	86.8	86.8	0.0387	0.0387	86.81	
\$ PCB-178L	39:59	3296384	1.08	1.0313	77.6	77.6	0.0493	0.0493	77.64	
* PCB-180L	45:04	4116964	1.07		100.0	100.0				
D PCB-170L	46:20	3051229	1.09	0.8362	88.6	88.6	0.0608	0.0608	88.63	
D PCB-189L	49:25	7375369	1.05	1.4414	86.8	86.8	0.1547	0.1547	86.83	
PCB-188	36:58						0.000481	0.000481		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:22	581	1.05	1.4276	0.0177	0.0105	0.000474	0.000474		RQM
PCB-184	37:50						0.000495	0.000495		
PCB-176	38:11						0.000549	0.000549		
PCB-186	38:39						0.000459	0.000459		
PCB-178	40:02						0.000757	0.000757		
PCB-175	40:39						0.000711	0.000711		
PCB-187	40:55						0.000614	0.000614		
PCB-182	41:08						0.000732	0.000732		
PCB-183	41:32	2143	1.05	0.9825	0.0842	0.0563	0.000689	0.000689		RQ
PCB-185 (C183)	41:32	2143	1.05	0.9825	0.0842	0.0563	0.000689	0.000689		RQ
PCB-174	41:46						0.000702	0.000702		
PCB-177	42:12						0.000693	0.000693		
PCB-181	42:36						0.000712	0.000712		
PCB-171	42:49						0.000725	0.000725		
PCB-173 (C171)	42:49						0.000725	0.000725		
PCB-172	44:27						0.000795	0.000795		
PCB-192	44:44						0.000503	0.000503		
PCB-180	45:05	412	1.05	1.1676	0.0331	0.009112	0.000580	0.000580		RQ
PCB-193 (C180)	45:05	412	1.05	1.1676	0.0331	0.009112	0.000580	0.000580		RQ
PCB-191	45:27						0.000525	0.000525		
PCB-170	46:22						0.000751	0.000751		
PCB-190	46:50	916	1.05	1.3322	0.0344	0.0178	0.000508	0.000508		RQ
PCB-189	49:28						0.0707	0.0707		
S Total Octachlorobiphenyls							0.0232	0.0232		
D PCB-202L	42:17	3569565	0.90	0.9818	88.3	88.3	0.0211	0.0211	88.31	
* PCB-194L	51:32	5892599	0.91		100.0	100.0				
D PCB-205L	52:00	5919186	0.89	1.1786	85.2	85.2	0.0530	0.0530	85.23	
PCB-202	42:20						0.003535	0.003535		
PCB-201	43:15						0.003754	0.003754		
PCB-204	43:55						0.003492	0.003492		
PCB-197	44:09						0.003196	0.003196		
PCB-200	44:16						0.003636	0.003636		
PCB-198	47:02						0.004210	0.004210		
PCB-199 (C198)	47:02						0.004210	0.004210		
PCB-196	47:43						0.004691	0.004691		
PCB-203	47:54						0.003941	0.003941		
PCB-195	49:13						0.0232	0.0232		
PCB-194	51:34						0.0197	0.0197		
PCB-205	52:02						0.0176	0.0176		
S Total Nonachlorobiphenyls							0.1837	0.1837		
D PCB-208L	48:57	5266508	0.80	0.9576	93.3	93.3	0.3361	0.3361	93.33	
D PCB-206L	53:45	3693731	0.80	0.6947	90.2	90.2	0.4633	0.4633	90.23	
PCB-208	49:00						0.1476	0.1476		
PCB-207	49:55						0.1449	0.1449		
PCB-206	53:47						0.1837	0.1837		
D PCB-209L	55:22	3843492	0.72	0.6669	97.8	97.8	0.0806	0.0806	97.81	
DCB Decachlorobiphenyl	55:22	1273	0.72	1.1004	0.0301	0.0301	0.003768	0.003768		
S Polychlorinated biphenyls, Total					29.5	0.0301	0.0431	0.0431		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Lims ID: 140-36689-A-8-C
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Sample Type: Client
Inject. Date: 12-Jun-2024 07:39:00 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033034-013
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 17:14:01 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICAL File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1667

First Level Reviewer: P0IK

Date: 12-Jun-2024 17:14:01

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:31	11:34	-2	0.723	4459649	1795442	1355	3387	1325		
202.0766	11:31	11:34	-2	0.723	1482617	587345	3399	8497	173	3.01(2.66-3.60)	
PCB-3L											
200.0795	13:39	13:42	-1	0.858	4849740	1605978	1355	3387	1185		
202.0766	13:39	13:42	-1	0.858	1521211	510451	3399	8497	150	3.19(2.66-3.60)	
PCB-1											
188.0393	11:32						145	362			
190.0363	11:32						174	435			
PCB-2											
188.0393	13:30	13:29	-1	0.988	13051	4463	145	362	31		
190.0363	13:29	13:29	-2	0.987	4775	1720	174	435	10	2.73(2.66-3.60)	M
PCB-3											
188.0393	13:40	13:40	-1	1.001	24221	6347	145	362	44		
190.0363	13:40	13:40	-1	1.001	7219	1749	174	435	10	3.36(2.66-3.60)	M
PCB-4L											
234.0406	13:54	13:58	-2	0.874	1703508	542309	778	1945	697		
236.0376	13:54	13:58	-2	0.874	1071870	341157	182	455	1874	1.59(1.33-1.79)	
PCB-9L											
234.0406	15:55	15:53	2		4606395	1044362	778	1945	1342		
236.0376	15:55	15:53	2		2911245	670018	182	455	3681	1.58(1.33-1.79)	
PCB-8L											
234.0406	16:48	16:48	6	1.208	573821	94163	778	1945	121		a
236.0376	16:48	16:48	6	1.208	368323	60047	182	455	330	1.56(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											a
234.0406	20:03	20:03	17	1.260	1595068	363232	778	1945	467		a
236.0376	20:03	20:03	17	1.260	1007353	223544	182	455	1228	1.58(1.33-1.79)	
PCB-4											
222.0003	13:55						86	215			
223.9974	13:55						120	300			
PCB-10											
222.0003	14:06						86	215			
223.9974	14:06						120	300			
PCB-9											
222.0003	15:52						86	215			
223.9974	15:52						120	300			
PCB-7											RQM
222.0003	16:04	16:04	0	1.155	11721	1801	86	215	21		M
	Empc Correction				9180	2471	86	215	29		
223.9974	16:05	16:04	1	1.156	5885	1584	120	300	13	1.99(1.33-1.79)	
PCB-6											
222.0003	16:16						86	215			
223.9974	16:16						120	300			
PCB-5											
222.0003	16:34						86	215			
223.9974	16:34						120	300			
PCB-8											M
222.0003	16:50	16:50	6	1.211	17673	2794	86	215	32		M
223.9974	16:50	16:50	6	1.210	11119	1488	120	300	12	1.59(1.33-1.79)	M
PCB-14											
222.0003	18:36						86	215			
223.9974	18:36						120	300			
PCB-11											a
222.0003	19:27	19:27	17	0.970	257475	51931	86	215	604		a
223.9974	19:27	19:27	17	0.970	159006	30511	120	300	254	1.62(1.33-1.79)	
PCB-12											U
222.0003	19:39						86	215			
223.9974	19:39						120	300			
PCB-13 (C12)											U
222.0003	19:39						86	215			
223.9974	19:39						120	300			
PCB-15											a
222.0003	20:05	20:05	17	1.001	6287	1456	86	215	17		a
223.9974	20:03	20:05	15	1.000	3870	906	120	300	8	1.62(1.33-1.79)	
PCB-19L											
268.0016	17:07	17:05	6	0.836	817387	149356	1252	3130	119		
269.9986	17:07	17:05	6	0.836	779324	145556	362	905	402	1.05(0.88-1.20)	
PCB-32L											a
268.0016	20:29	20:15	14		2299248	546710	1252	3130	437		a
269.9986	20:28	20:15	13		2121629	497460	362	905	1374	1.08(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:37	22:31	7		6992760	1637413	1036	2590	1581		
269.9986	22:37	22:31	7		6558660	1521161	955	2387	1593	1.07(0.88-1.20)	
PCB-28L											
268.0016	22:54	22:54	7	1.012	5035346	1146653	1036	2590	1107		
269.9986	22:54	22:54	7	1.012	4759718	1069143	955	2387	1120	1.06(0.88-1.20)	
PCB-37L											
268.0016	26:50	26:56	2	1.186	4485119	978426	1036	2590	944		
269.9986	26:50	26:56	2	1.186	4131370	892765	955	2387	935	1.09(0.88-1.20)	
PCB-19											
255.9613	17:09	17:05	6	1.002	591	206	21	52	10		RQ
	Empc Correction				346	119	21	52	6		
257.9584	17:12	17:05	9	1.005	333	115	20	50	6	1.77(0.88-1.20)	
PCB-18											
255.9613	18:58						21	52			
257.9584	18:58						20	50			
PCB-30 (C18)											
255.9613	18:58						21	52			
257.9584	18:58						20	50			
PCB-17											
255.9613	19:25						21	52			
257.9584	19:25						20	50			
PCB-27											
255.9613	19:39						21	52			
257.9584	19:39						20	50			
PCB-24											
255.9613	19:46	19:47	7	1.155	1168	203	21	52	10		RQ
	Empc Correction				944	430	21	52	20		
257.9584	19:45	19:47	6	1.154	908	414	20	50	21	1.29(0.88-1.20)	
PCB-16											
255.9613	19:53						21	52			
257.9584	19:53						20	50			
PCB-32											
255.9613	20:30	20:30	13	1.198	3770	767	21	52	37		RQa
257.9584	20:28	20:30	12	1.196	5382	957	20	50	48	0.70(0.88-1.20)	a
	Empc Correction				3625	737	20	50	37		
PCB-34											
255.9613	21:39						117	292			
257.9584	21:39						134	335			
PCB-23											
255.9613	21:49						117	292			
257.9584	21:49						134	335			
PCB-26											
255.9613	22:06	22:06	6	1.291	8917	1563	117	292	13		RQM
257.9584	22:06	22:06	6	1.291	18711	3137	134	335	23	0.48(0.88-1.20)	M
	Empc Correction				8574	1502	134	335	11		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											RQM
255.9613	22:06	22:06	6	1.291	8917	1563	117	292	13		
257.9584	22:06	22:06	6	1.291	18711	3137	134	335	23	0.48(0.88-1.20)	M
Empc Correction					8574	1502	134	335	11		
PCB-25											
255.9613	22:15						117	292			
257.9584	22:15						134	335			
PCB-31											
255.9613	22:33						117	292			
257.9584	22:33						134	335			
PCB-20											M
255.9613	22:56	22:56	6	0.855	45699	10369	117	292	89		
257.9584	22:56	22:56	6	0.855	44897	8267	134	335	62	1.02(0.88-1.20)	M
PCB-28 (C20)											M
255.9613	22:56	22:56	6	0.855	45699	10369	117	292	89		
257.9584	22:56	22:56	6	0.855	44897	8267	134	335	62	1.02(0.88-1.20)	M
PCB-21											RQM
255.9613	23:10	23:09	11	0.864	28992	5992	117	292	51		M
257.9584	23:09	23:09	9	0.863	47662	6889	134	335	51	0.61(0.88-1.20)	M
Empc Correction					27876	5761	134	335	43		
PCB-33 (C21)											RQM
255.9613	23:10	23:09	11	0.864	28992	5992	117	292	51		M
257.9584	23:09	23:09	9	0.863	47662	6889	134	335	51	0.61(0.88-1.20)	M
Empc Correction					27876	5761	134	335	43		
PCB-22											RQ
255.9613	23:32	23:33	4	0.877	16330	2542	117	292	22		
257.9584	23:32	23:33	4	0.877	25234	3604	134	335	27	0.65(0.88-1.20)	
Empc Correction					15701	2444	134	335	18		
PCB-36											
255.9613	25:02						117	292			
257.9584	25:02						134	335			
PCB-39											
255.9613	25:24						117	292			
257.9584	25:24						134	335			
PCB-38											
255.9613	25:58						117	292			
257.9584	25:58						134	335			
PCB-35											RQ
255.9613	26:28	26:27	4	0.986	6285	1621	117	292	14		
257.9584	26:26	26:27	2	0.985	7834	1233	134	335	9	0.80(0.88-1.20)	
Empc Correction					6043	1558	134	335	12		
PCB-37											RQ
255.9613	26:51	26:51	2	1.000	7358	2057	117	292	18		
257.9584	26:51	26:51	2	1.000	9951	2143	134	335	16	0.74(0.88-1.20)	
Empc Correction					7075	1977	134	335	15		
PCB-54L											a
301.9626	20:20	20:20	16	0.823	719810	158814	77	192	2063		a
303.9597	20:20	20:20	16	0.823	903572	195642	55	137	3557	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-52L											
301.9626	24:42	24:38	4		2947930	654495	570	1425	1148		
303.9597	24:42	24:38	4		3688380	816557	694	1735	1177	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:32	32:32	0	0.971	968774	195602	570	1425	343		
303.9597	32:32	32:32	0	0.971	1160230	238526	694	1735	344	0.83(0.65-0.89)	
PCB-81L											
301.9626	33:31	33:37	0	1.357	2763884	552989	570	1425	970		
303.9597	33:31	33:37	0	1.357	3393747	687728	694	1735	991	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:05	34:12	-1	1.380	2958497	573372	570	1425	1006		
303.9597	34:05	34:12	-1	1.380	3667302	719038	694	1735	1036	0.81(0.65-0.89)	
PCB-54											
289.9224	20:06						3	7			
291.9194	20:06						12	30			
PCB-50											
289.9224	22:34						94	235			
291.9194	22:34						302	755			
PCB-53 (C50)											
289.9224	22:34						94	235			
291.9194	22:34						302	755			
PCB-45											
289.9224	23:06	23:06	6	1.136	46897	10816	94	235	115		a
291.9194	23:06	23:06	7	1.136	53869	12121	302	755	40	0.87(0.65-0.89)	a
PCB-51 (C45)											
289.9224	23:06	23:06	6	1.136	46897	10816	94	235	115		a
291.9194	23:06	23:06	7	1.136	53869	12121	302	755	40	0.87(0.65-0.89)	a
PCB-46											
289.9224	23:33						94	235			
291.9194	23:33						302	755			
PCB-52											
289.9224	24:42	24:42	4	1.215	13726	3282	94	235	35		a
291.9194	24:43	24:42	4	1.215	17964	4422	302	755	15	0.76(0.65-0.89)	a
PCB-43											
289.9224	25:08						94	235			
291.9194	25:08						302	755			
PCB-73 (C43)											
289.9224	25:08						94	235			
291.9194	25:08						302	755			
PCB-49											
289.9224	25:13	25:13	8	1.240	9988	2435	94	235	26		RQa
291.9194	25:12	25:13	7	1.239	21646	3511	302	755	12	0.46(0.65-0.89)	a
	Empc Correction				12971	3162	302	755	10		
PCB-69 (C49)											
289.9224	25:13	25:13	8	1.240	9988	2435	94	235	26		RQa
291.9194	25:12	25:13	7	1.239	21646	3511	302	755	12	0.46(0.65-0.89)	a
	Empc Correction				12971	3162	302	755	10		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-48											
289.9224	25:45						94	235			
291.9194	25:45						302	755			
PCB-44											
289.9224	25:45	25:45	5	1.266	174469	37649	94	235	401		a
291.9194	25:45	25:45	5	1.266	230979	47155	302	755	156	0.76(0.65-0.89)	a
PCB-47 (C44)											
289.9224	25:45	25:45	5	1.266	174469	37649	94	235	401		a
291.9194	25:45	25:45	5	1.266	230979	47155	302	755	156	0.76(0.65-0.89)	a
PCB-65 (C44)											
289.9224	25:45	25:45	5	1.266	174469	37649	94	235	401		a
291.9194	25:45	25:45	5	1.266	230979	47155	302	755	156	0.76(0.65-0.89)	a
PCB-59											
289.9224	26:18						94	235			
291.9194	26:18						302	755			
PCB-62 (C59)											
289.9224	26:18						94	235			
291.9194	26:18						302	755			
PCB-75 (C59)											
289.9224	26:18						94	235			
291.9194	26:18						302	755			
PCB-42											
289.9224	26:31						94	235			
291.9194	26:31						302	755			
PCB-40											
289.9224	26:41						94	235			
291.9194	26:41						302	755			
PCB-41 (C40)											
289.9224	26:41						94	235			
291.9194	26:41						302	755			
PCB-71 (C40)											
289.9224	26:41						94	235			
291.9194	26:41						302	755			
PCB-64											
289.9224	26:54	27:06	1	1.322	8524	1352	94	235	14		
291.9194	26:55	27:06	2	1.324	12265	2541	302	755	8	0.69(0.65-0.89)	
PCB-72											
289.9224	27:43						94	235			
291.9194	27:43						302	755			
PCB-68											
289.9224	28:01	28:02	1	0.836	34655	7309	94	235	78		
291.9194	28:01	28:02	1	0.836	46186	9950	302	755	33	0.75(0.65-0.89)	
PCB-57											
289.9224	28:25						94	235			
291.9194	28:25						302	755			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-58											
289.9224	28:40						94	235			
291.9194	28:40						302	755			
PCB-67											
289.9224	28:50						94	235			
291.9194	28:50						302	755			
PCB-63											
289.9224	29:05						94	235			
291.9194	29:05						302	755			
PCB-61											
289.9224	29:27	29:28	1	0.879	14463	2063	94	235	22		
291.9194	29:27	29:28	1	0.879	19287	2907	302	755	10	0.75(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:27	29:28	1	0.879	14463	2063	94	235	22		
291.9194	29:27	29:28	1	0.879	19287	2907	302	755	10	0.75(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:27	29:28	1	0.879	14463	2063	94	235	22		
291.9194	29:27	29:28	1	0.879	19287	2907	302	755	10	0.75(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:27	29:28	1	0.879	14463	2063	94	235	22		
291.9194	29:27	29:28	1	0.879	19287	2907	302	755	10	0.75(0.65-0.89)	
PCB-66											
289.9224	29:46	29:45	1	0.888	5520	1283	94	235	14		
291.9194	29:46	29:45	1	0.888	8408	2291	302	755	8	0.66(0.65-0.89)	
PCB-55											
289.9224	29:54						94	235			
291.9194	29:54						302	755			
PCB-56											
289.9224	30:25						94	235			
291.9194	30:25						302	755			
PCB-60											
289.9224	30:40						94	235			
291.9194	30:40						302	755			
PCB-80											
289.9224	31:02						94	235			
291.9194	31:02						302	755			
PCB-79											
289.9224	32:34						94	235			
291.9194	32:34						302	755			
PCB-78											
289.9224	33:07						94	235			
291.9194	33:07						302	755			
PCB-81											
289.9224	33:33						94	235			
291.9194	33:33						302	755			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-77											
289.9224	34:06						94	235			
291.9194	34:06						302	755			
PCB-104L											
337.9207	25:37	25:34	3	0.814	2794731	601959	134	335	4492		
339.9178	25:38	25:34	4	0.814	1692563	367302	129	322	2847	1.65(1.32-1.78)	
PCB-95L											
337.9207	28:33	28:35	1	1.115	689150	144469	134	335	1078		
339.9178	28:33	28:35	1	1.115	438794	97627	129	322	757	1.57(1.32-1.78)	
PCB-101L											
337.9207	31:28	31:28	1		2634050	543884	134	335	4059		
339.9178	31:28	31:28	1		1663019	350952	129	322	2721	1.58(1.32-1.78)	
PCB-111L											
337.9207	34:08	34:09	0	1.085	2756827	556402	134	335	4152		
339.9178	34:08	34:09	0	1.085	1753017	354442	129	322	2748	1.57(1.32-1.78)	
PCB-123L											
337.9207	36:05	36:06	0	1.147	3879653	784761	3234	8085	243		
339.9178	36:05	36:06	0	1.147	2491652	491207	3041	7602	162	1.56(1.32-1.78)	
PCB-118L											
337.9207	36:25	36:26	0	1.157	4002776	812757	3234	8085	251		
339.9178	36:25	36:26	0	1.157	2509993	502800	3041	7602	165	1.59(1.32-1.78)	
PCB-114L											
337.9207	36:56	36:58	0	1.174	3978968	781443	3234	8085	242		
339.9178	36:56	36:58	-1	1.173	2471011	485649	3041	7602	160	1.61(1.32-1.78)	
PCB-105L											
337.9207	37:35	37:36	0	1.194	3802222	719941	3234	8085	223		
339.9178	37:35	37:36	0	1.194	2420559	463677	3041	7602	152	1.57(1.32-1.78)	
PCB-127L											
337.9207	39:03	39:04	0		4578635	879911	3234	8085	272		
339.9178	39:03	39:04	0		2890937	545293	3041	7602	179	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:40	40:42	-1	1.292	3772365	725274	3234	8085	224		
339.9178	40:40	40:42	-1	1.292	2357966	448436	3041	7602	147	1.60(1.32-1.78)	
PCB-104											
325.8804	25:38						41	102			
327.8775	25:38						2	5			
PCB-96											
325.8804	26:01						41	102			
327.8775	26:01						2	5			
PCB-103											
325.8804	27:57						41	102			
327.8775	27:57						2	5			
PCB-94											
325.8804	28:11						41	102			
327.8775	28:11						2	5			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95											M
325.8804	28:35	28:33	1	1.116	4187	1037	41	102	25	1.66(1.32-1.78)	M
327.8775	28:33	28:33	0	1.115	2519	713	2	5	357		
PCB-93											
325.8804	28:50						41	102			
327.8775	28:50						2	5			
PCB-100 (C93)											
325.8804	28:50						41	102			
327.8775	28:50						2	5			
PCB-98											RQ
325.8804	28:56	28:55	1	1.130	1752	371	41	102	9	6.10(1.32-1.78)	
	Empc Correction				444	111	41	102	3		
327.8775	28:57	28:55	2	1.130	287	72	2	5	36		
PCB-102 (C98)											RQ
325.8804	28:56	28:55	1	1.130	1752	371	41	102	9	6.10(1.32-1.78)	
	Empc Correction				444	111	41	102	3		
327.8775	28:57	28:55	2	1.130	287	72	2	5	36		
PCB-88											RQM
325.8804	29:26	29:26	1	1.149	1784	351	41	102	9	1.30(1.32-1.78)	M
327.8775	29:28	29:26	3	1.150	1373	428	2	5	214		
	Empc Correction				1150	226	2	5	113		
PCB-91 (C88)											RQM
325.8804	29:26	29:26	1	1.149	1784	351	41	102	9	1.30(1.32-1.78)	M
327.8775	29:28	29:26	3	1.150	1373	428	2	5	214		
	Empc Correction				1150	226	2	5	113		
PCB-84											RQM
325.8804	29:38	29:38	-1	1.157	2736	536	41	102	13	1.99(1.32-1.78)	M
	Empc Correction				2131	461	41	102	11		
327.8775	29:39	29:38	1	1.158	1375	298	2	5	149		
PCB-89											RQU
325.8804	30:11						41	102			
327.8775	30:11						2	5			
PCB-121											RQM
325.8804	30:35	30:35	3	1.194	997	329	41	102	8	10.96(1.32-1.78)	M
	Empc Correction				141	63	41	102	2		
327.8775	30:29	30:35	-3	1.190	91	41	2	5	21		
PCB-92											
325.8804	30:54						41	102			
327.8775	30:54						2	5			
PCB-90											RQ
325.8804	31:29	31:31	1	1.229	5423	1457	41	102	36	1.25(1.32-1.78)	
327.8775	31:29	31:31	1	1.229	4345	1021	2	5	511		
	Empc Correction				3498	940	2	5	470		
PCB-101 (C90)											RQ
325.8804	31:29	31:31	1	1.229	5423	1457	41	102	36	1.25(1.32-1.78)	
327.8775	31:29	31:31	1	1.229	4345	1021	2	5	511		
	Empc Correction				3498	940	2	5	470		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-113 (C90)											RQ
325.8804	31:29	31:31	1	1.229	5423	1457	41	102	36		
327.8775	31:29	31:31	1	1.229	4345	1021	2	5	511	1.25(1.32-1.78)	
Empc Correction					3498	940	2	5	470		
PCB-83											
325.8804	32:04	32:07	0	1.252	2883	800	41	102	20		
327.8775	32:04	32:07	1	1.252	2158	645	2	5	323	1.34(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:04	32:07	0	1.252	2883	800	41	102	20		
327.8775	32:04	32:07	1	1.252	2158	645	2	5	323	1.34(1.32-1.78)	
PCB-112											
325.8804	32:14						41	102			
327.8775	32:14						2	5			
PCB-86											RQU
325.8804	32:40						41	102			
327.8775	32:40						2	5			
PCB-87 (C86)											RQU
325.8804	32:40						41	102			
327.8775	32:40						2	5			
PCB-97 (C86)											RQU
325.8804	32:40						41	102			
327.8775	32:40						2	5			
PCB-109 (C86)											RQU
325.8804	32:40						41	102			
327.8775	32:40						2	5			
PCB-119 (C86)											RQU
325.8804	32:40						41	102			
327.8775	32:40						2	5			
PCB-125 (C86)											RQU
325.8804	32:40						41	102			
327.8775	32:40						2	5			
PCB-85											RQU
325.8804	33:17						41	102			
327.8775	33:17						2	5			
PCB-116 (C85)											RQU
325.8804	33:17						41	102			
327.8775	33:17						2	5			
PCB-117 (C85)											RQU
325.8804	33:17						41	102			
327.8775	33:17						2	5			
PCB-110											RQM
325.8804	33:28	33:28	-2	1.307	5330	1131	41	102	28		M
Empc Correction					4586	1088	41	102	27		
327.8775	33:28	33:28	-2	1.307	2959	702	2	5	351	1.80(1.32-1.78)	M
PCB-115 (C110)											RQM
325.8804	33:28	33:28	-2	1.307	5330	1131	41	102	28		M
Empc Correction					4586	1088	41	102	27		
327.8775	33:28	33:28	-2	1.307	2959	702	2	5	351	1.80(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-82											
325.8804	33:51						41	102			
327.8775	33:51						2	5			
PCB-111											
325.8804	34:14						41	102			
327.8775	34:14						2	5			
PCB-120											
325.8804	34:41						41	102			
327.8775	34:41						2	5			
PCB-108											
325.8804	35:50						105	262			
327.8775	35:50						35	87			
PCB-124 (C108)											
325.8804	35:50						105	262			
327.8775	35:50						35	87			
PCB-107											
325.8804	36:04						105	262			
327.8775	36:04						35	87			
PCB-123											
325.8804	36:07						105	262			
327.8775	36:07						35	87			
PCB-106											
325.8804	36:14						105	262			
327.8775	36:14						35	87			
PCB-118											
325.8804	36:26	36:26	-1	1.000	5829	714	105	262	7		RQM
	Empc Correction				3561	714	105	262	7		M
327.8775	36:26	36:26	-1	1.000	2298	461	35	87	13	2.54(1.32-1.78)	
PCB-122											
325.8804	36:47						105	262			
327.8775	36:47						35	87			
PCB-114											
325.8804	36:58						105	262			
327.8775	36:58						35	87			
PCB-105											
325.8804	37:37						105	262			
327.8775	37:37						35	87			
PCB-127											
325.8804	39:05						105	262			
327.8775	39:05						35	87			
PCB-126											
325.8804	40:40						105	262			
327.8775	40:40						35	87			
PCB-155L											
371.8817	31:14	31:13	1	0.790	2323516	485524	89	222	5455		
373.8788	31:14	31:13	1	0.790	1806595	377636	61	152	6191	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-153L											
371.8817	38:17	38:17	0	0.900	856744	169177	153	382	1106		
373.8788	38:17	38:17	0	0.900	683594	137854	1207	3017	114	1.25(1.05-1.43)	
PCB-138L											
371.8817	39:32	39:32	-1		2992024	566110	153	382	3700		
373.8788	39:32	39:32	-1		2299995	438139	1207	3017	363	1.30(1.05-1.43)	
PCB-167L											
371.8817	42:32	42:32	-1	1.076	3051863	583303	153	382	3812		
373.8788	42:32	42:32	-1	1.076	2406905	444670	1207	3017	368	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:40	43:41	-1	1.105	6092466	799456	153	382	5225		
373.8788	43:40	43:41	-1	1.105	4721556	621414	1207	3017	515	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:40	43:41	-1	1.105	6092466	799456	153	382	5225		
373.8788	43:40	43:41	-1	1.105	4721556	621414	1207	3017	515	1.29(1.05-1.43)	
PCB-169L											
371.8817	46:54	46:54	-1	1.187	3156149	571584	153	382	3736		
373.8788	46:54	46:54	-1	1.187	2491914	466149	1207	3017	386	1.27(1.05-1.43)	
PCB-155											
359.8415	31:16						3	7			
361.8385	31:16						7	17			
PCB-152											
359.8415	31:28						3	7			
361.8385	31:28						7	17			
PCB-150											
359.8415	31:39						3	7			
361.8385	31:39						7	17			
PCB-136											
359.8415	32:00						3	7			
361.8385	32:00						7	17			
PCB-145											
359.8415	32:17						3	7			
361.8385	32:17						7	17			
PCB-148											
359.8415	33:48						3	7			
361.8385	33:48						7	17			
PCB-135											
359.8415	34:23						3	7			
361.8385	34:23						7	17			
PCB-151 (C135)											
359.8415	34:23						3	7			
361.8385	34:23						7	17			
PCB-154											
359.8415	34:39						3	7			
361.8385	34:39						7	17			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-144											
359.8415	34:59						3	7			
361.8385	34:59						7	17			
PCB-147											
359.8415	35:21	35:18	3	1.132	1235	293	17	42	17		RQM
361.8385	35:18	35:18	0	1.130	1466	485	13	32	37	0.84(1.05-1.43)	M
Empc Correction					995	236	13	32	18		
PCB-149 (C147)											
359.8415	35:21	35:18	3	1.132	1235	293	17	42	17		RQM
361.8385	35:18	35:18	0	1.130	1466	485	13	32	37	0.84(1.05-1.43)	M
Empc Correction					995	236	13	32	18		
PCB-134											
359.8415	35:37						17	42			
361.8385	35:37						13	32			
PCB-143 (C134)											
359.8415	35:37						17	42			
361.8385	35:37						13	32			
PCB-139											
359.8415	35:54						17	42			
361.8385	35:54						13	32			
PCB-140 (C139)											
359.8415	35:54						17	42			
361.8385	35:54						13	32			
PCB-131											
359.8415	36:07						17	42			
361.8385	36:07						13	32			
PCB-142											
359.8415	36:16						17	42			
361.8385	36:16						13	32			
PCB-132											
359.8415	36:34	36:34	0	1.171	917	414	17	42	24		RQM
361.8385	36:34	36:34	0	1.171	950	321	13	32	25	0.97(1.05-1.43)	M
Empc Correction					739	333	13	32	26		
PCB-133											
359.8415	37:06						17	42			
361.8385	37:06						13	32			
PCB-165											
359.8415	37:27						17	42			
361.8385	37:27						13	32			
PCB-146											
359.8415	37:42						17	42			
361.8385	37:42						13	32			
PCB-161											
359.8415	37:50						17	42			
361.8385	37:50						13	32			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-153											RQ
359.8415	38:19	38:19	-1	0.901	4322	866	17	42	51		
	Empc Correction				3028	662	17	42	39		
361.8385	38:19	38:19	-1	0.901	2442	534	13	32	41	1.77(1.05-1.43)	
PCB-168 (C153)											RQ
359.8415	38:19	38:19	-1	0.901	4322	866	17	42	51		
	Empc Correction				3028	662	17	42	39		
361.8385	38:19	38:19	-1	0.901	2442	534	13	32	41	1.77(1.05-1.43)	
PCB-141											
359.8415	38:30						17	42			
361.8385	38:30						13	32			
PCB-130											
359.8415	38:55						17	42			
361.8385	38:55						13	32			
PCB-137											
359.8415	39:09						17	42			
361.8385	39:09						13	32			
PCB-164											
359.8415	39:16						17	42			
361.8385	39:16						13	32			
PCB-129											RQM
359.8415	39:33	39:36	-2	0.930	2664	433	17	42	25		
	Empc Correction				1304	349	17	42	21		
361.8385	39:36	39:36	1	0.931	1052	282	13	32	22	2.53(1.05-1.43)	M
PCB-138 (C129)											RQM
359.8415	39:33	39:36	-2	0.930	2664	433	17	42	25		
	Empc Correction				1304	349	17	42	21		
361.8385	39:36	39:36	1	0.931	1052	282	13	32	22	2.53(1.05-1.43)	M
PCB-160 (C129)											RQM
359.8415	39:33	39:36	-2	0.930	2664	433	17	42	25		
	Empc Correction				1304	349	17	42	21		
361.8385	39:36	39:36	1	0.931	1052	282	13	32	22	2.53(1.05-1.43)	M
PCB-163 (C129)											RQM
359.8415	39:33	39:36	-2	0.930	2664	433	17	42	25		
	Empc Correction				1304	349	17	42	21		
361.8385	39:36	39:36	1	0.931	1052	282	13	32	22	2.53(1.05-1.43)	M
PCB-158											
359.8415	39:56						17	42			
361.8385	39:56						13	32			
PCB-128											
359.8415	40:48						17	42			
361.8385	40:48						13	32			
PCB-166 (C128)											
359.8415	40:48						17	42			
361.8385	40:48						13	32			
PCB-159											
359.8415	41:48						17	42			
361.8385	41:48						13	32			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-162											
359.8415	42:05						17	42			
361.8385	42:05						13	32			
PCB-167											
359.8415	42:33						17	42			
361.8385	42:33						13	32			
PCB-156											
359.8415	43:42						17	42			
361.8385	43:42						13	32			
PCB-157 (C156)											
359.8415	43:42						17	42			
361.8385	43:42						13	32			
PCB-169											
359.8415	46:58	46:56	2	1.001	434	246	17	42	14		RQ
	Empc Correction				373	96	17	42	6		
361.8385	46:57	46:56	0	1.001	301	78	13	32	6	1.44(1.05-1.43)	
PCB-188L											
405.8428	36:56	36:56	0	0.820	2433727	480542	98	245	4903		
407.8398	36:56	36:56	0	0.820	2260216	435638	61	152	7142	1.08(0.89-1.21)	
PCB-178L											
405.8428	39:59	39:59	-1	0.887	1710844	330603	98	245	3374		
407.8398	39:59	39:59	-1	0.887	1585540	311936	61	152	5114	1.08(0.89-1.21)	
PCB-180L											
405.8428	45:04	45:04	-1		2130474	402708	98	245	4109		
407.8398	45:04	45:04	-1		1986490	377796	61	152	6193	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:20	46:20	-1	1.028	1591316	296570	98	245	3026		
407.8398	46:20	46:20	-1	1.028	1459913	264364	61	152	4334	1.09(0.89-1.21)	
PCB-189L											
405.8428	49:25	49:26	-1	1.097	3769061	707309	559	1397	1265		
407.8398	49:25	49:26	-1	1.097	3606308	650592	420	1050	1549	1.05(0.89-1.21)	
PCB-188											
393.8025	36:58						1	2			
395.7995	36:58						1	2			
PCB-179											
393.8025	37:22	37:22	3	1.011	298	106	1	2	106		RQM
395.7995	37:17	37:22	-2	1.009	680	165	1	2	165	0.44(0.89-1.21)	M
	Empc Correction				283	100	1	2	100		
PCB-184											
393.8025	37:49						1	2			
395.7995	37:49						1	2			
PCB-176											
393.8025	38:11						1	2			
395.7995	38:11						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-186											
393.8025	38:38						1	2			
395.7995	38:38						1	2			
PCB-178											
393.8025	40:01						1	2			
395.7995	40:01						1	2			
PCB-175											
393.8025	40:39						1	2			
395.7995	40:39						1	2			
PCB-187											
393.8025	40:55						1	2			
395.7995	40:55						1	2			
PCB-182											
393.8025	41:07						1	2			
395.7995	41:07						1	2			
PCB-183											
393.8025	41:32	41:32	-1	1.124	1098	325	1	2	325		RQ
395.7995	41:30	41:32	-2	1.124	2106	656	1	2	656	0.52(0.89-1.21)	
Empc Correction					1045	309	1	2	309		
PCB-185 (C183)											
393.8025	41:32	41:32	-1	1.124	1098	325	1	2	325		RQ
395.7995	41:30	41:32	-2	1.124	2106	656	1	2	656	0.52(0.89-1.21)	
Empc Correction					1045	309	1	2	309		
PCB-174											
393.8025	41:46						1	2			
395.7995	41:46						1	2			
PCB-177											
393.8025	42:12						1	2			
395.7995	42:12						1	2			
PCB-181											
393.8025	42:36						1	2			
395.7995	42:36						1	2			
PCB-171											
393.8025	42:48						1	2			
395.7995	42:48						1	2			
PCB-173 (C171)											
393.8025	42:48						1	2			
395.7995	42:48						1	2			
PCB-172											
393.8025	44:28						1	2			
395.7995	44:28						1	2			
PCB-192											
393.8025	44:43						1	2			
395.7995	44:43						1	2			
PCB-180											
393.8025	45:05	45:07	0	0.912	1296	454	1	2	454		RQ
Empc Correction					211	72	1	2	72		
395.7995	45:06	45:07	1	0.912	201	69	1	2	69	6.45(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-193 (C180)											RQ
393.8025	45:05	45:07	0	0.912	1296	454	1	2	454		
	Empc Correction				211	72	1	2	72		
395.7995	45:06	45:07	1	0.912	201	69	1	2	69	6.45(0.89-1.21)	
PCB-191											
393.8025	45:28						1	2			
395.7995	45:28						1	2			
PCB-170											
393.8025	46:21						1	2			
395.7995	46:21						1	2			
PCB-190											RQ
393.8025	46:50	46:52	-2	0.948	1327	377	1	2	377		
	Empc Correction				469	157	1	2	157		
395.7995	46:53	46:52	0	0.949	447	150	1	2	150	2.97(0.89-1.21)	
PCB-189											
393.8025	49:27						211	527			
395.7995	49:27						159	397			
PCB-202L											
439.8038	42:17	42:18	-1	0.821	1687952	316582	34	85	9311		
441.8008	42:17	42:18	-1	0.821	1881613	366156	31	77	11811	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:32	51:33	-1		2813736	520249	155	387	3356		
441.8008	51:32	51:33	-1		3078863	577142	119	297	4850	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:00	52:00	-1	1.009	2794476	517970	155	387	3342		
441.8008	52:00	52:00	-1	1.009	3124710	562980	119	297	4731	0.89(0.76-1.02)	
PCB-202											
427.7635	42:19						7	17			
429.7606	42:19						3	7			
PCB-201											
427.7635	43:15						7	17			
429.7606	43:15						3	7			
PCB-204											
427.7635	43:54						7	17			
429.7606	43:54						3	7			
PCB-197											
427.7635	44:08						7	17			
429.7606	44:08						3	7			
PCB-200											
427.7635	44:14						7	17			
429.7606	44:14						3	7			
PCB-198											
427.7635	47:01						7	17			
429.7606	47:01						3	7			
PCB-199 (C198)											
427.7635	47:01						7	17			
429.7606	47:01						3	7			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-196											
427.7635	47:42						7	17			
429.7606	47:42						3	7			
PCB-203											
427.7635	47:53						7	17			
429.7606	47:53						3	7			
PCB-195											
427.7635	49:12						77	192			
429.7606	49:12						6	15			
PCB-194											
427.7635	51:34						77	192			
429.7606	51:34						6	15			
PCB-205											
427.7635	52:01						77	192			
429.7606	52:01						6	15			
PCB-208L											
473.7648	48:57	48:58	-2	0.950	2338117	434218	801	2002	542		
475.7619	48:58	48:58	-1	0.950	2928391	545622	612	1530	892	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:45	53:45	-1	1.043	1636854	298053	801	2002	372		
475.7619	53:46	53:45	0	1.043	2056877	373032	612	1530	610	0.80(0.65-0.89)	
PCB-208											
461.7246	48:58						117	292			
463.7216	48:58						541	1352			
PCB-207											
461.7246	49:54						117	292			
463.7216	49:54						541	1352			
PCB-206											
461.7246	53:46						117	292			
463.7216	53:46						541	1352			
PCB-209L											
507.7258	55:22	55:22	-1	1.074	1612446	275205	118	295	2332		
509.7229	55:22	55:22	-1	1.074	2231046	376011	118	295	3187	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:22	55:25	-2	1.000	533	248	8	20	31		
497.6826	55:25	55:25	1	1.001	740	186	3	7	62	0.72(0.59-0.79)	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

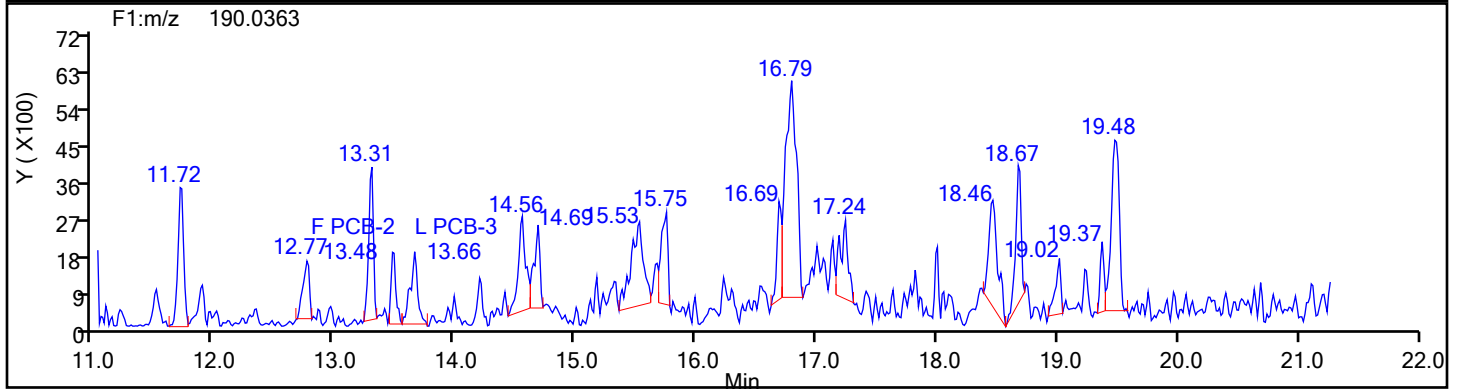
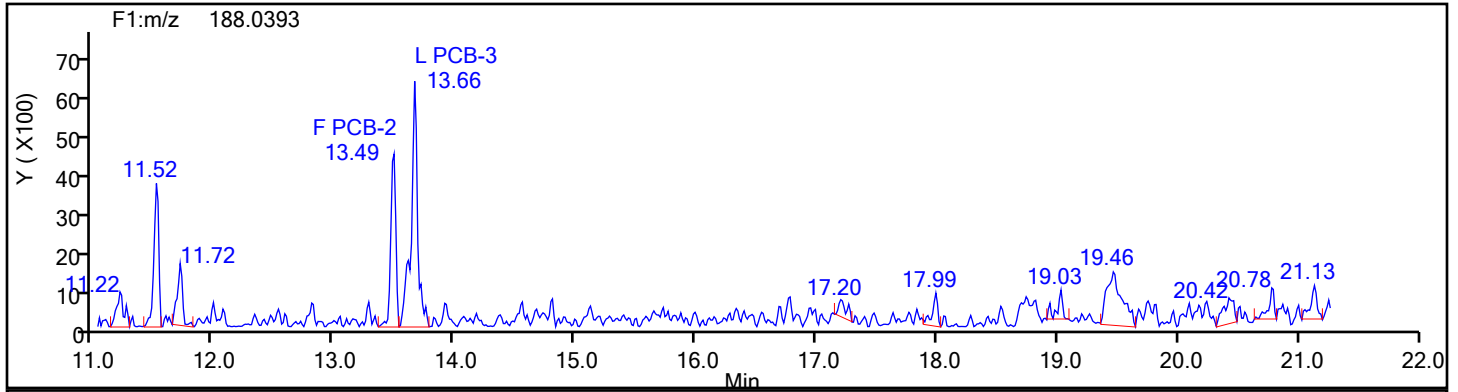
M - Manually Integrated

U - Marked Undetected

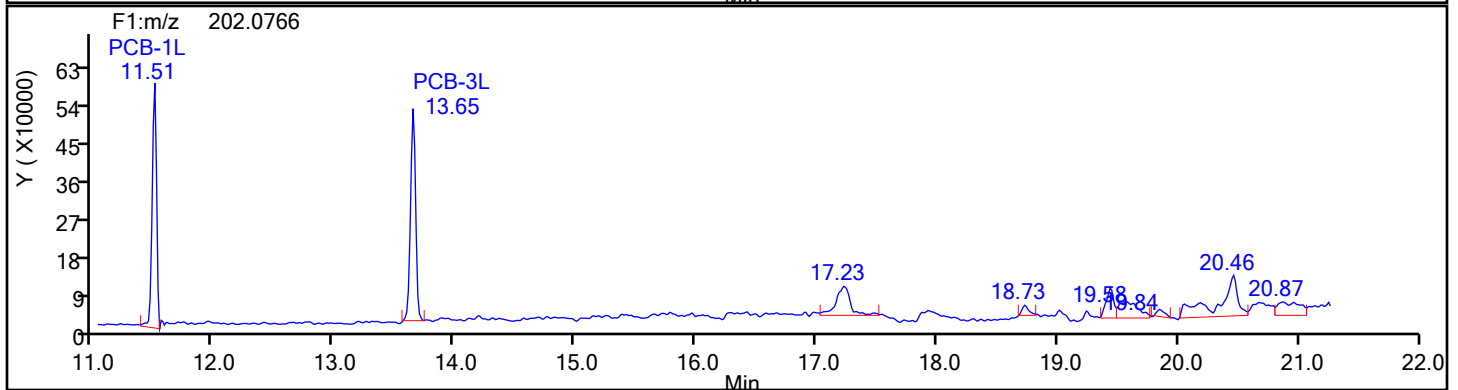
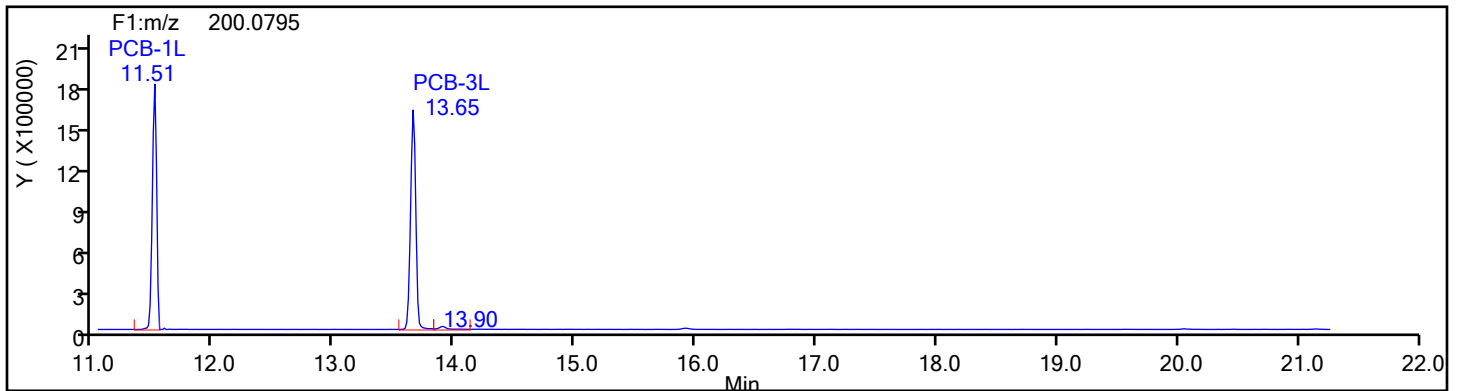
a - User Assigned ID

Eurofins Knoxville

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Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

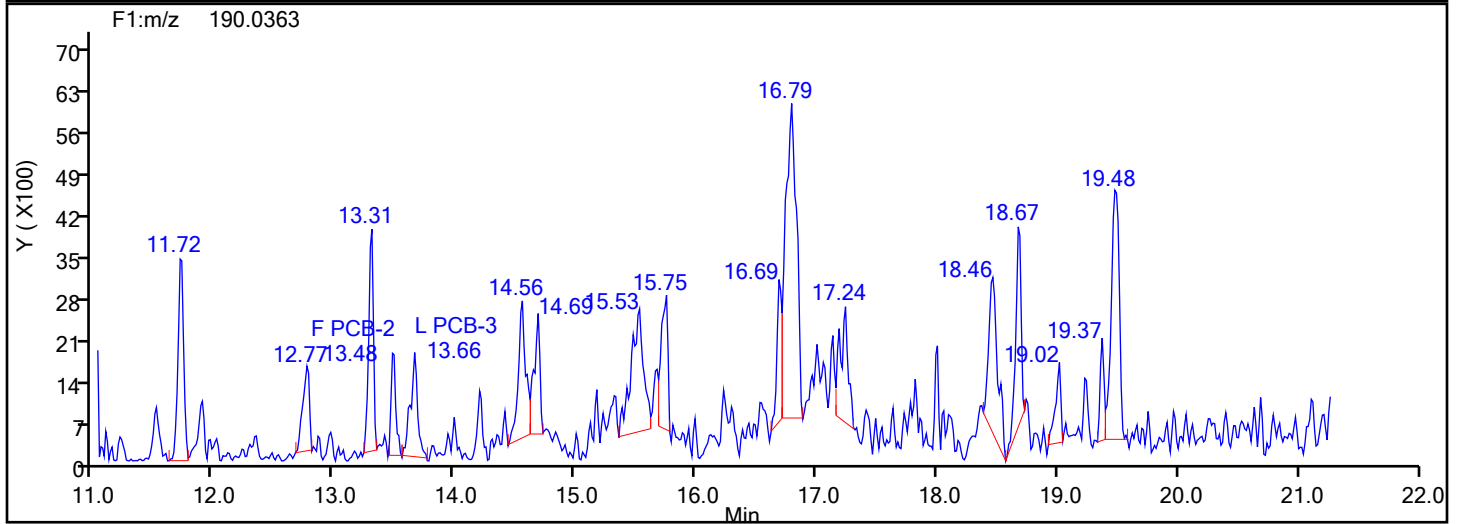
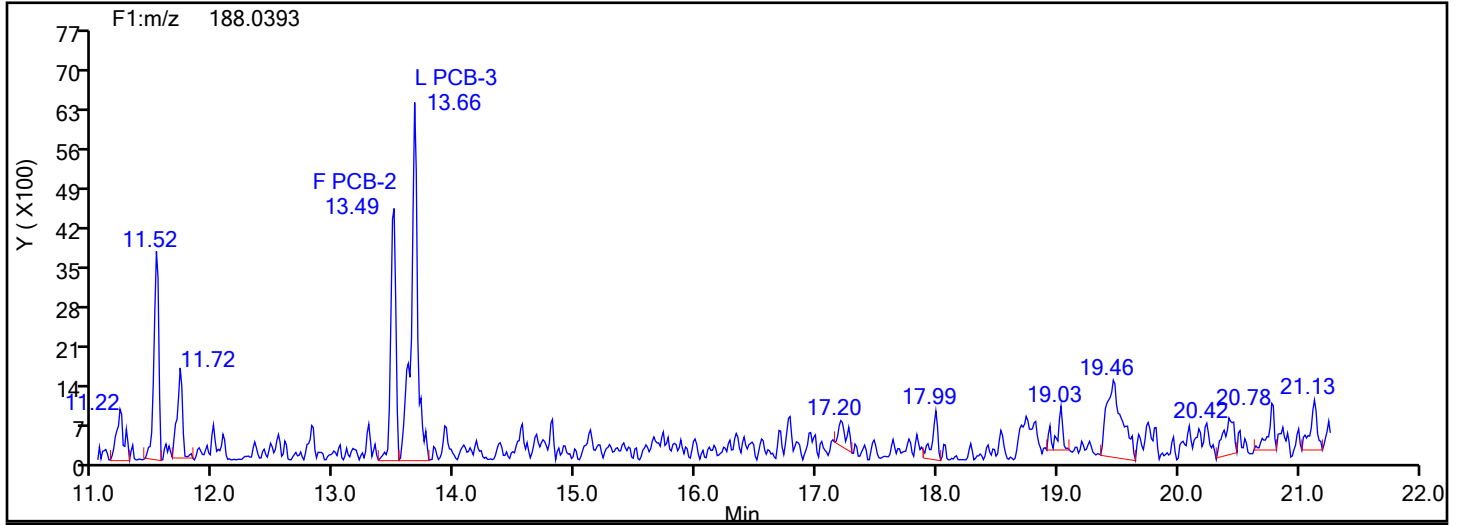


MoPCB F1 Standards

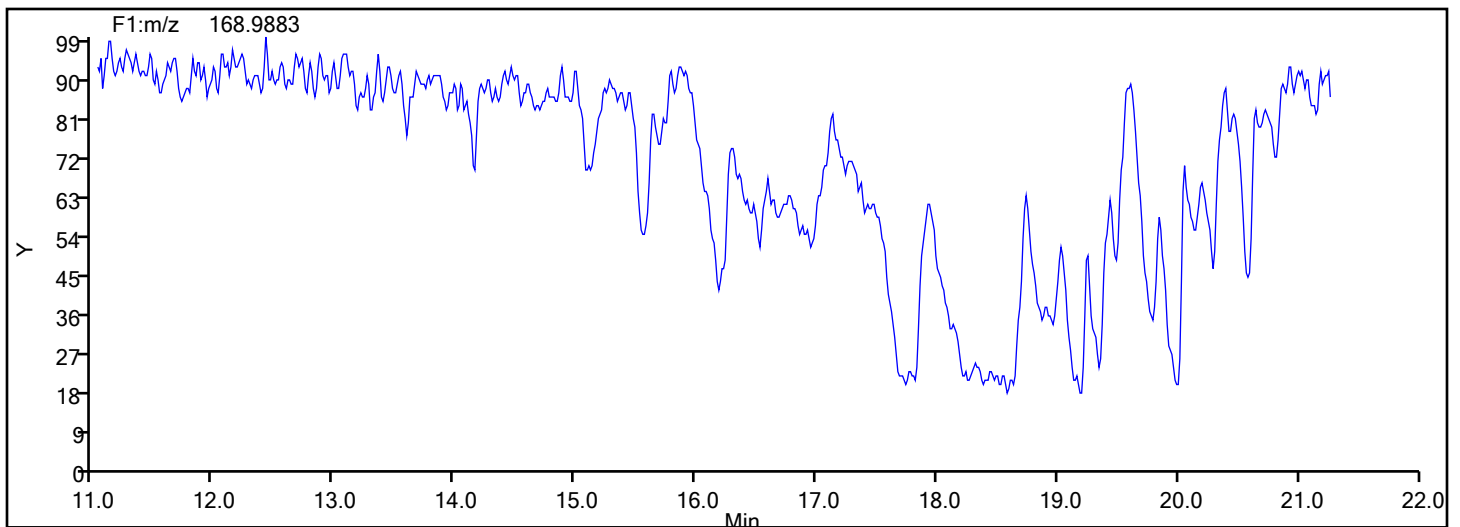


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

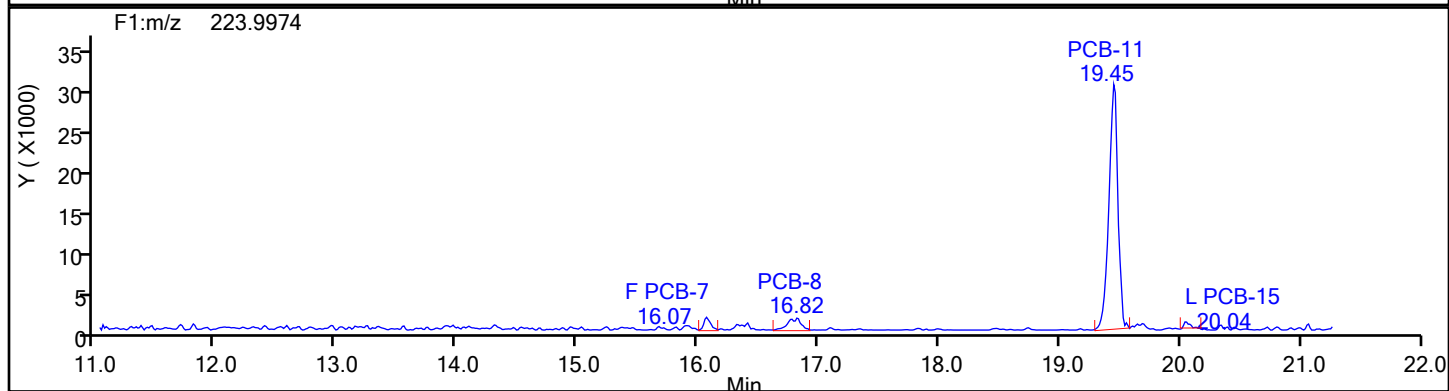
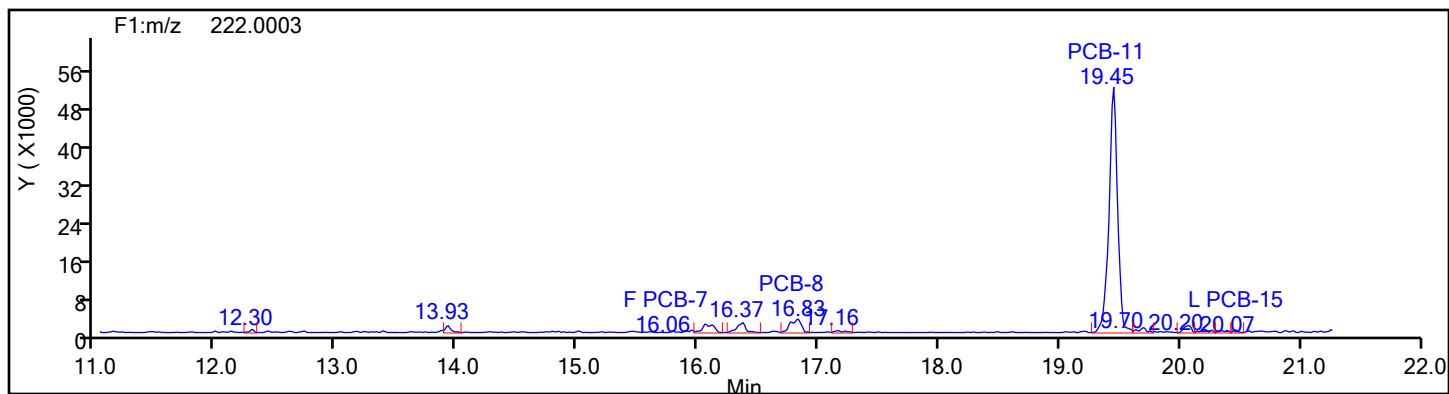


MoPCB F1 Lock Mass

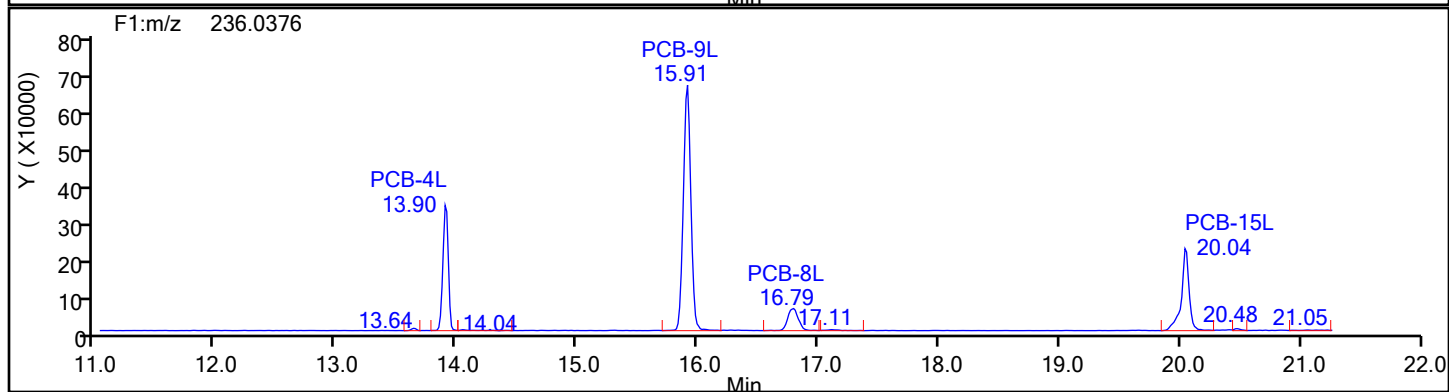
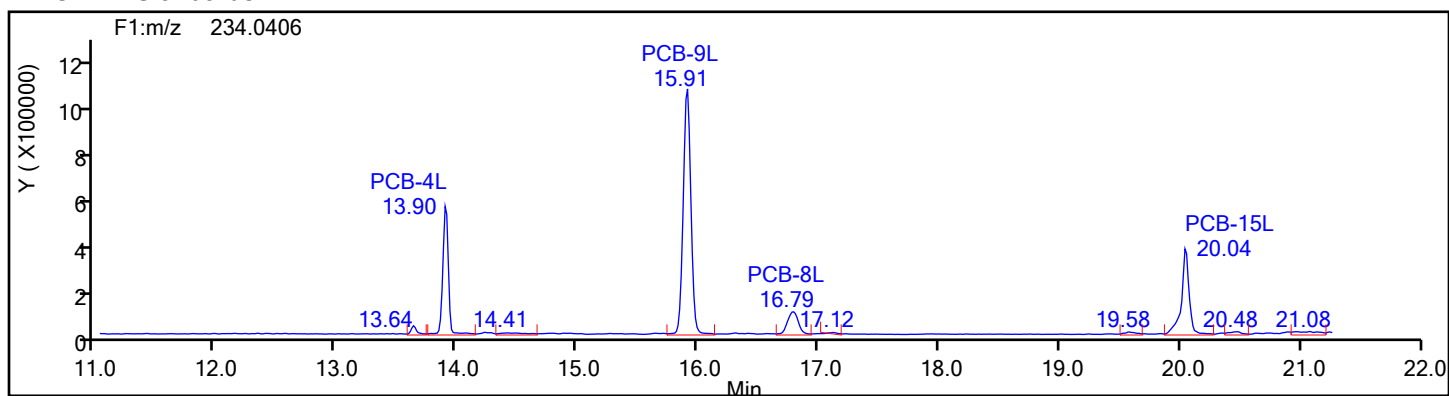


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

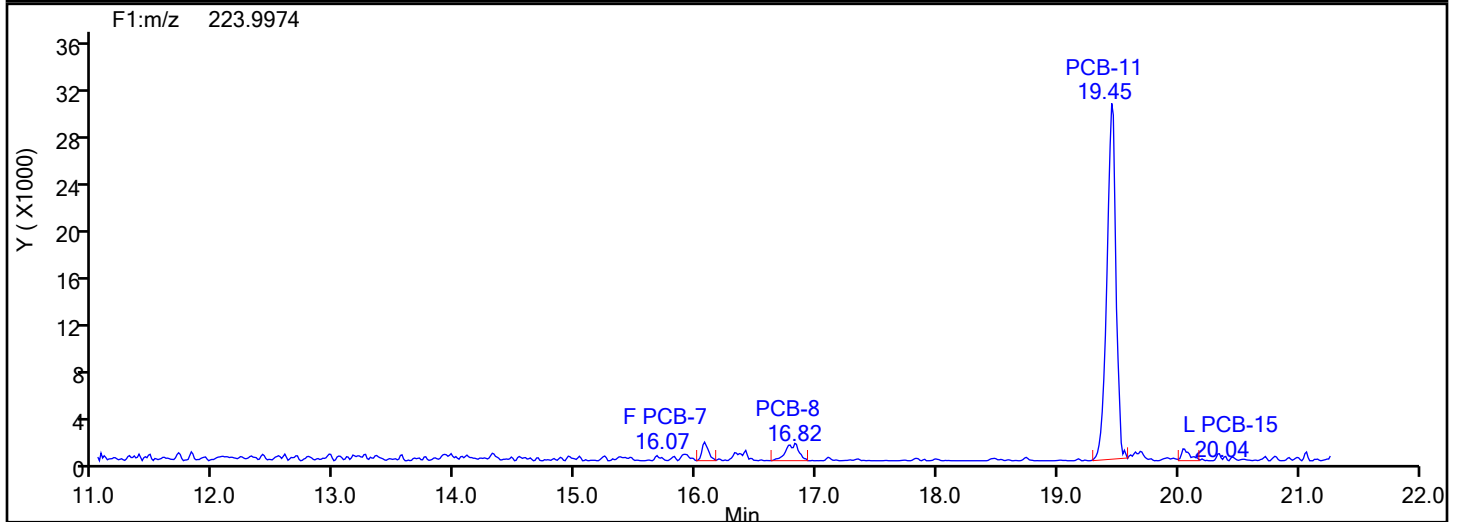
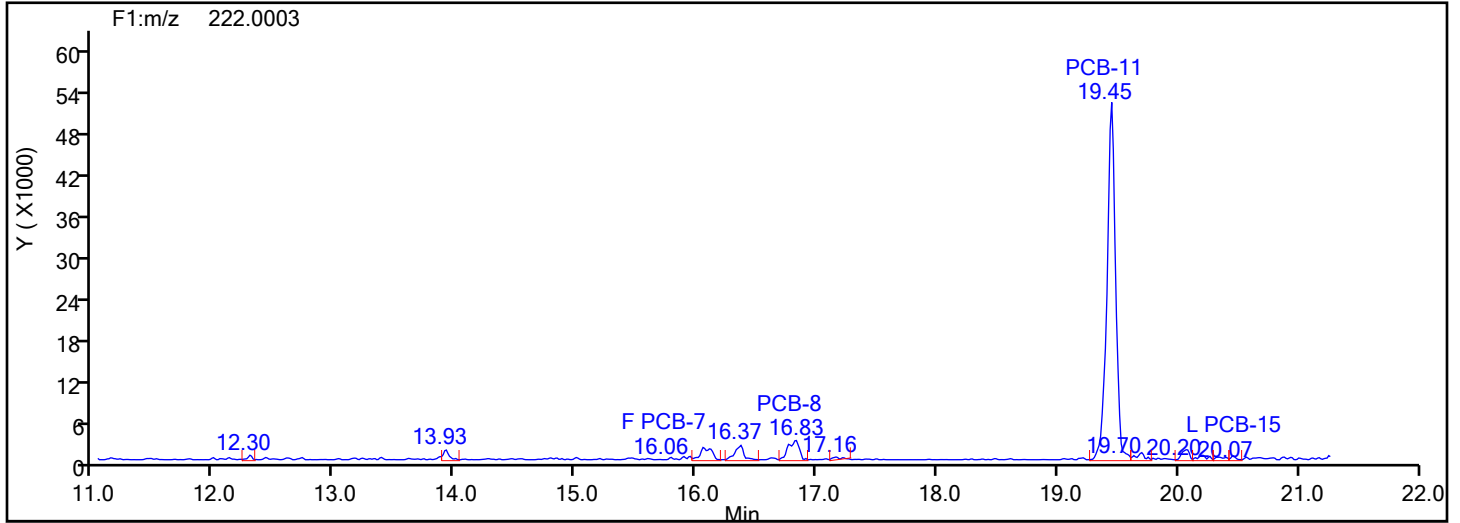


DiPCB F1 Standards

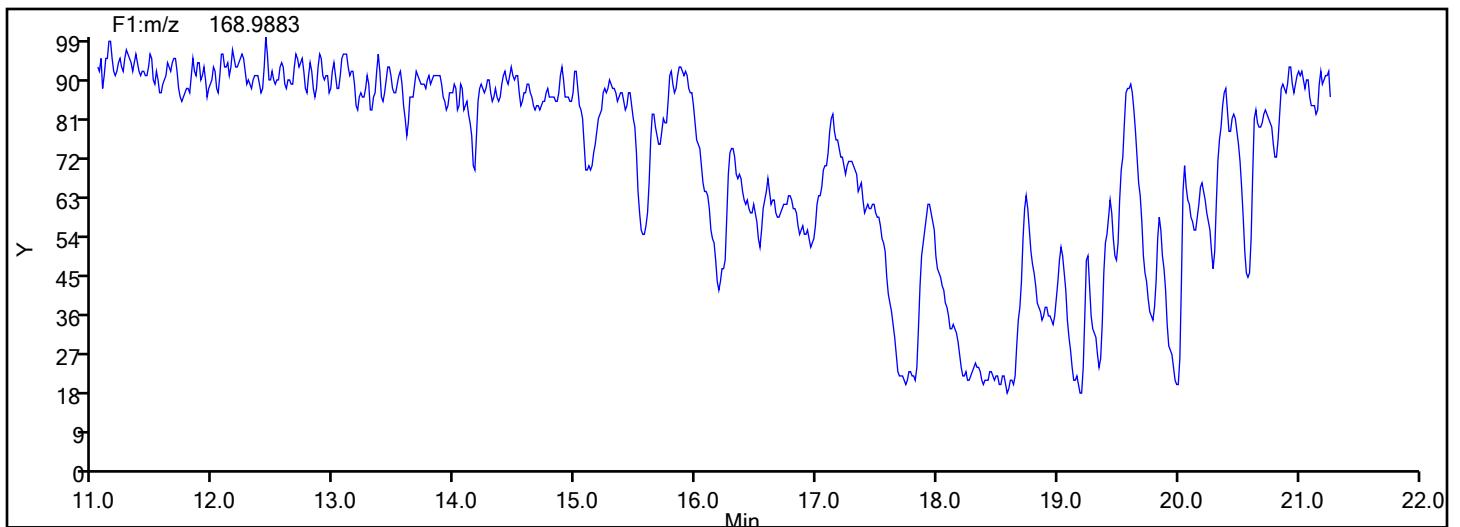


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

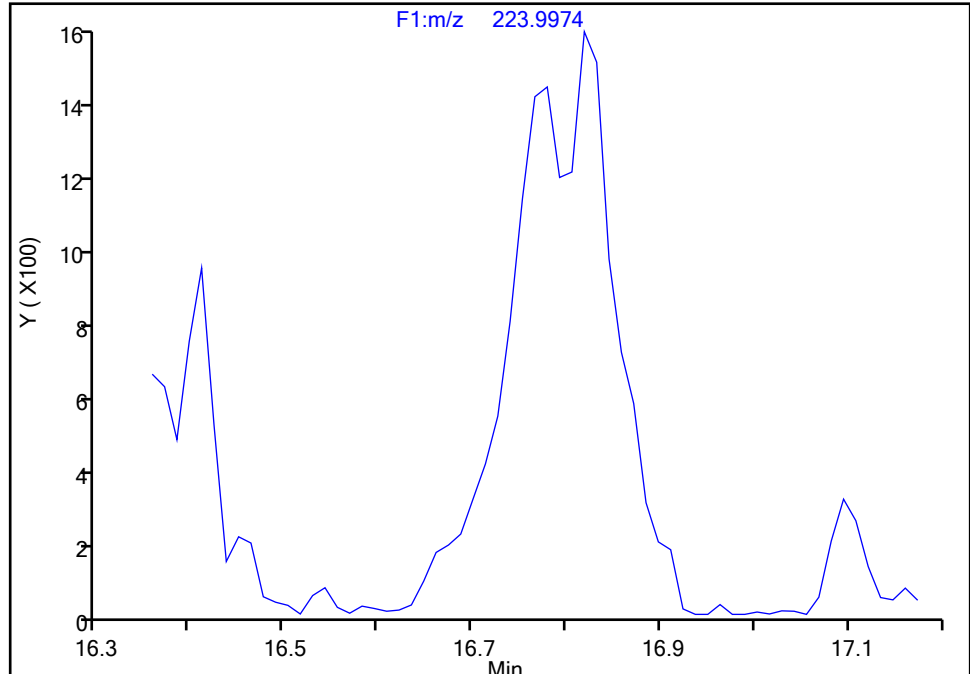
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Injection Date: 12-Jun-2024 07:39:00 Instrument ID: D2D
Lims ID: 140-36689-A-8-C Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 2

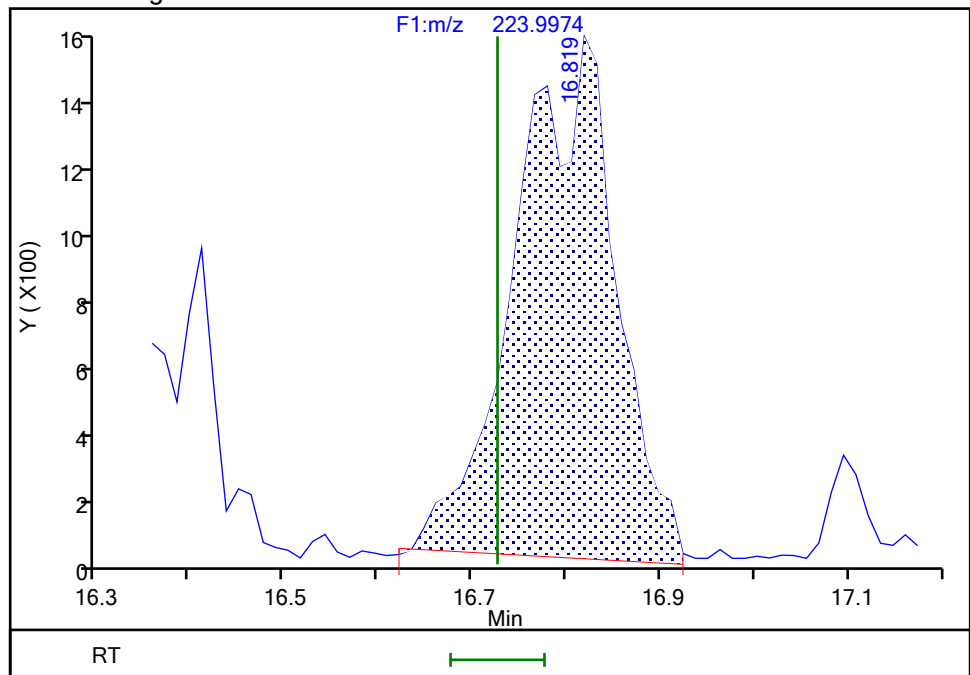
Not Detected
Expected RT: 16.73

Processing Integration Results



RT: 16.82
Area: 11119
Amount: 0.673917
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 16:54:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

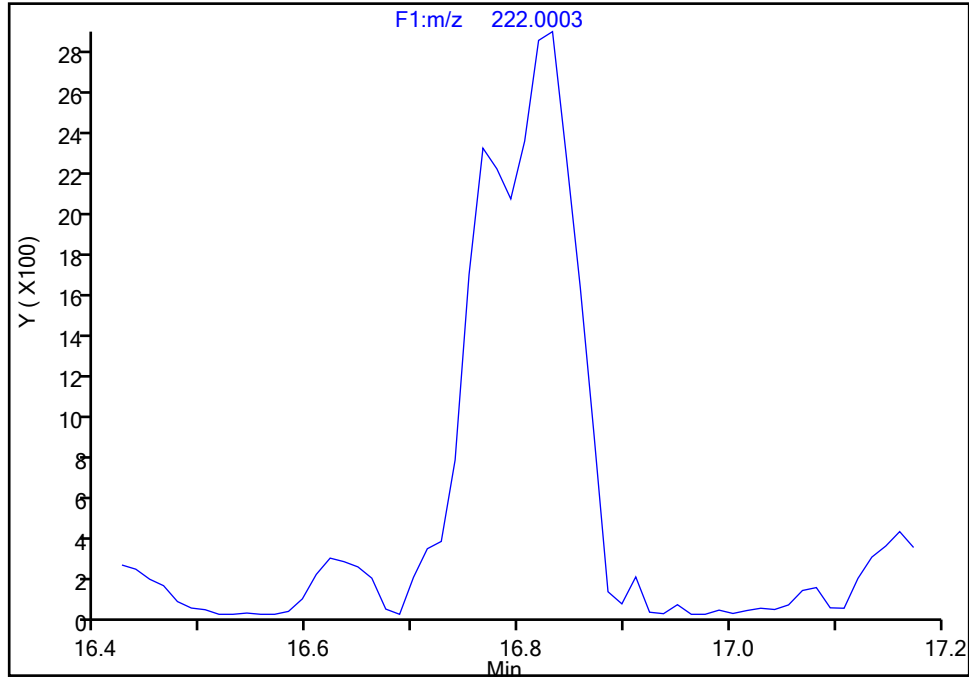
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Injection Date: 12-Jun-2024 07:39:00 Instrument ID: D2D
Lims ID: 140-36689-A-8-C Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

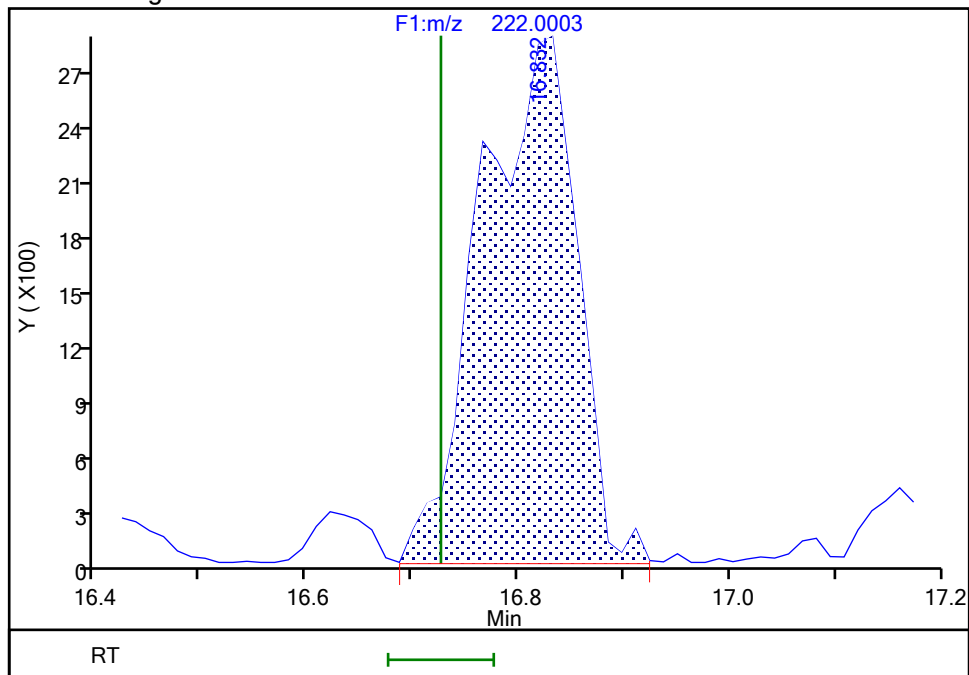
Not Detected
Expected RT: 16.73

Processing Integration Results



RT: 16.83
Area: 17673
Amount: 0.673917
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 16:54:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

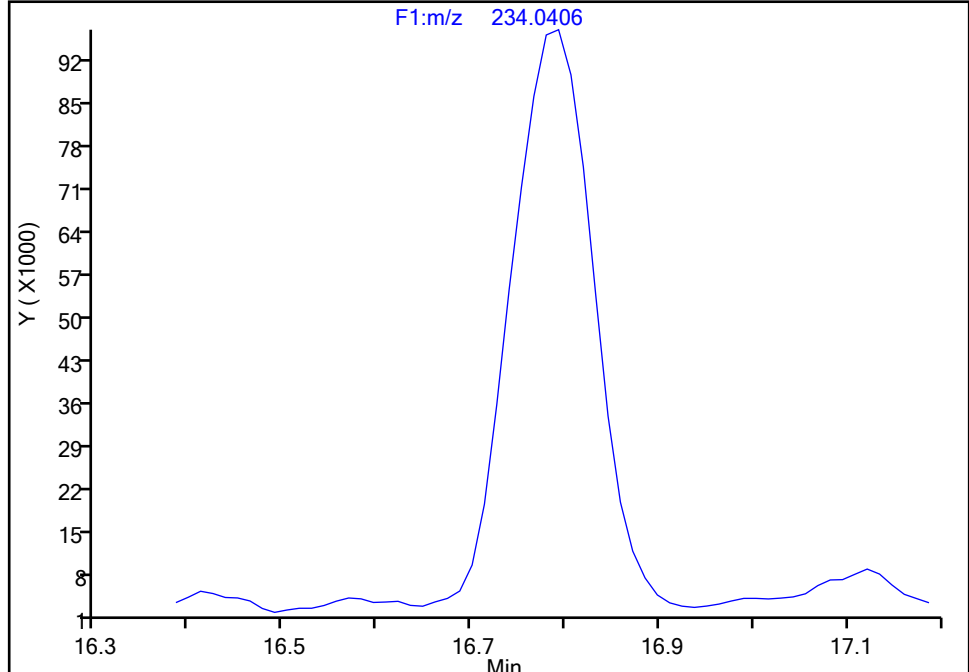
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Lims ID: 140-36689-A-8-C Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

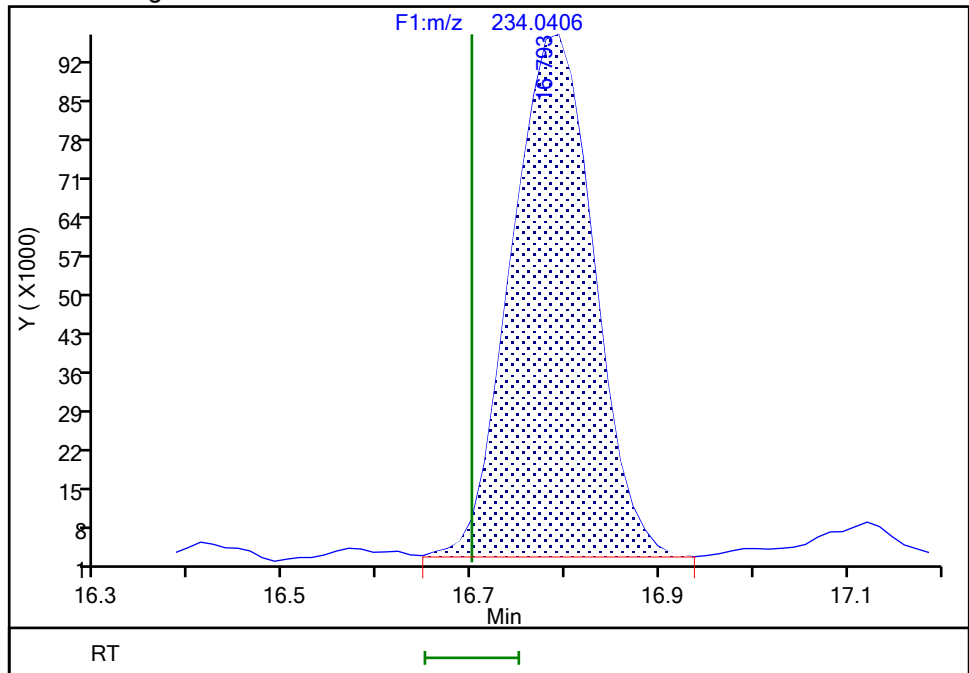
Not Detected
Expected RT: 16.70

Processing Integration Results



RT: 16.79
Area: 573821
Amount: 29.038569
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 16:53:26 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

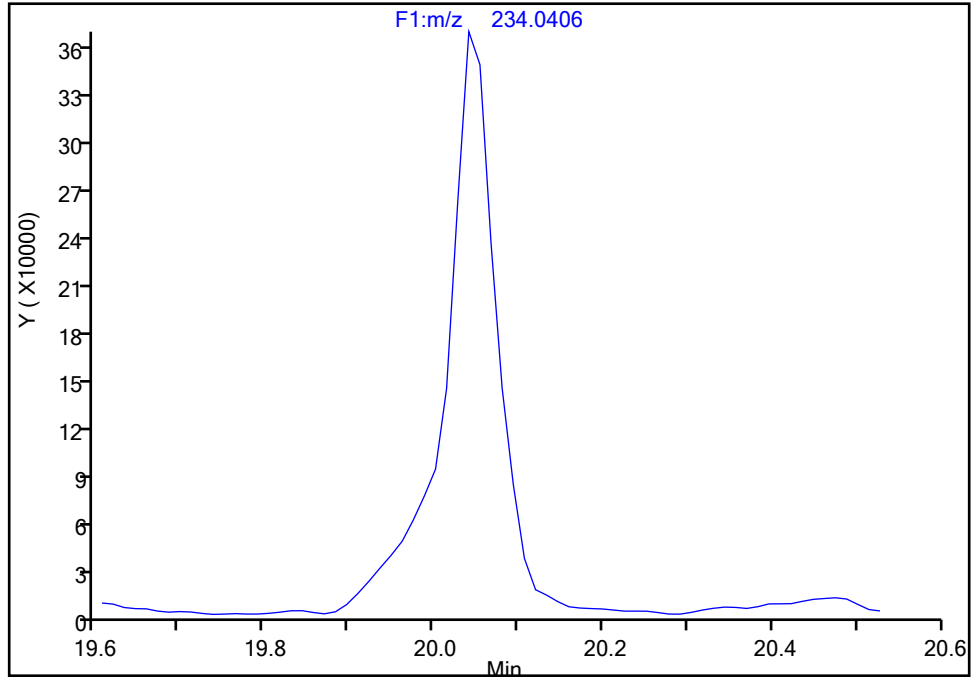
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Injection Date: 12-Jun-2024 07:39:00 Instrument ID: D2D
Lims ID: 140-36689-A-8-C Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-15L, CAS: 208263-67-6

Signal: 1

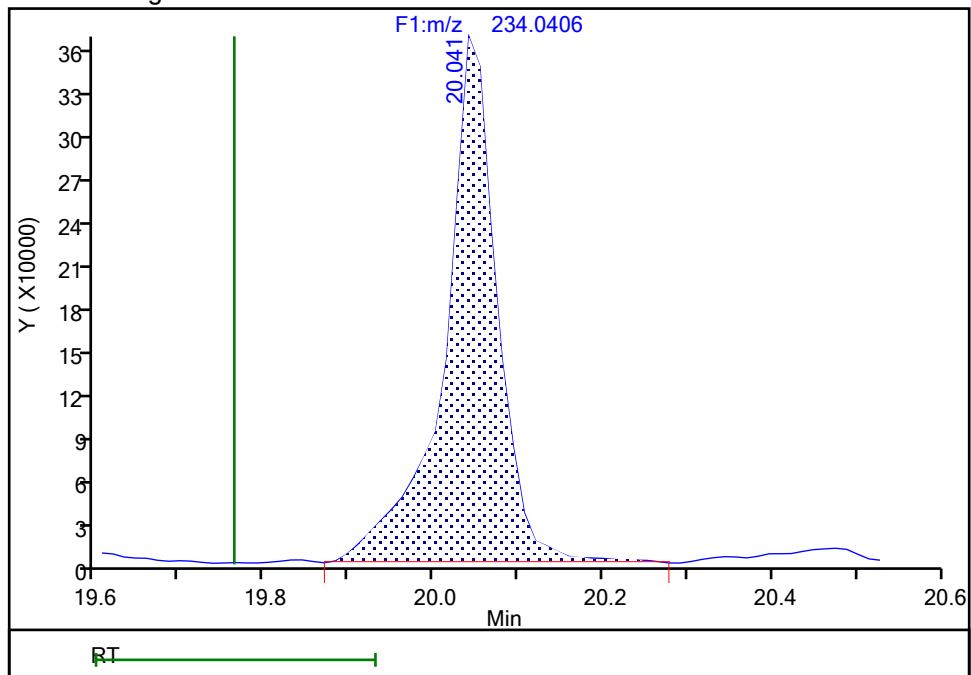
Not Detected
Expected RT: 19.76

Processing Integration Results



RT: 20.04
Area: 1595068
Amount: 32.084934
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 16:53:30 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d

Injection Date: 12-Jun-2024 07:39:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN FB COMBINED

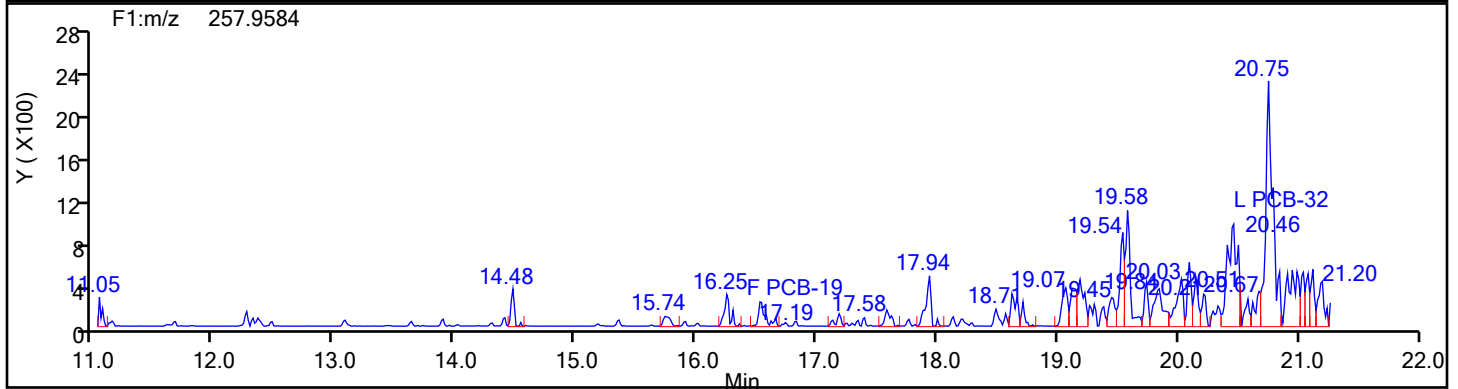
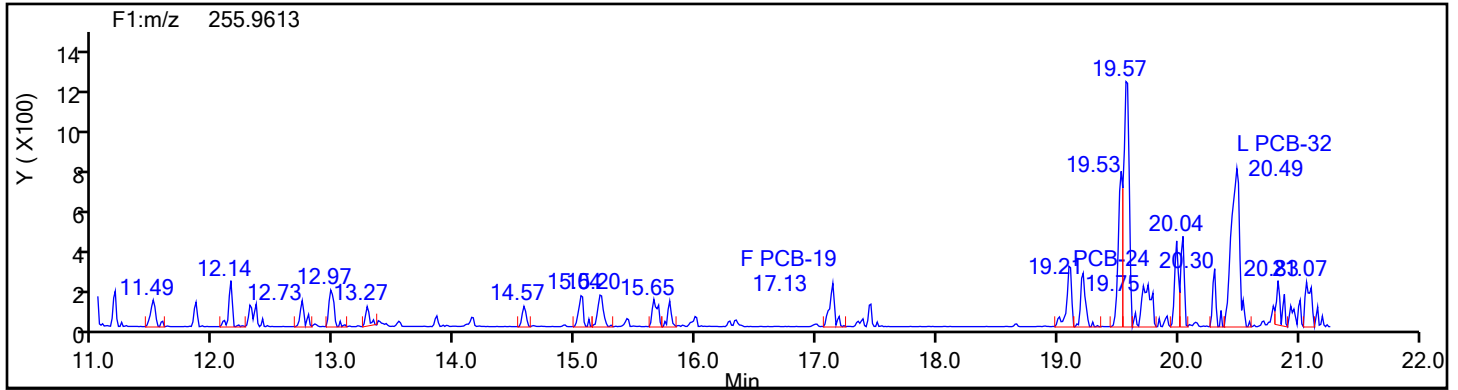
Worklist#: 87536

Sample Line#: 13

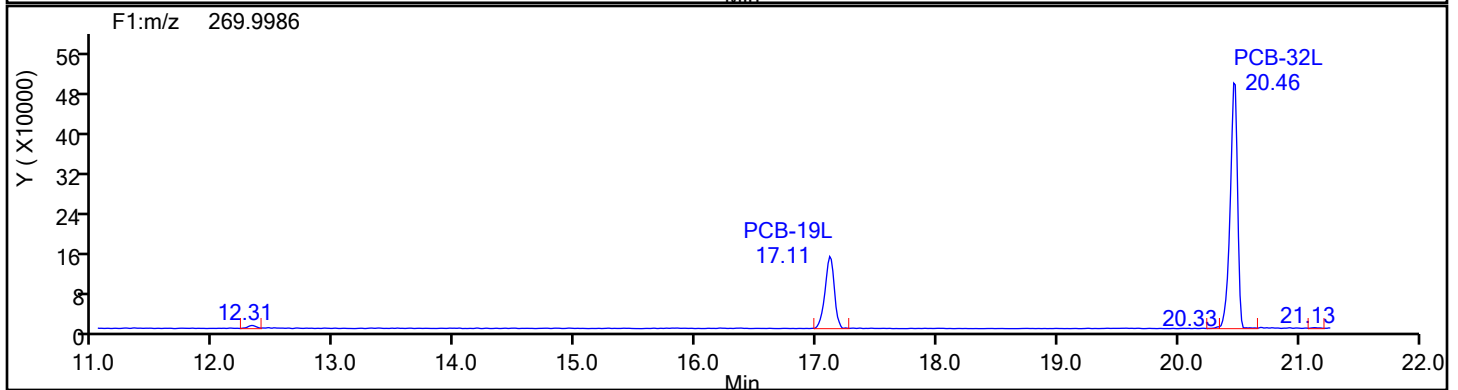
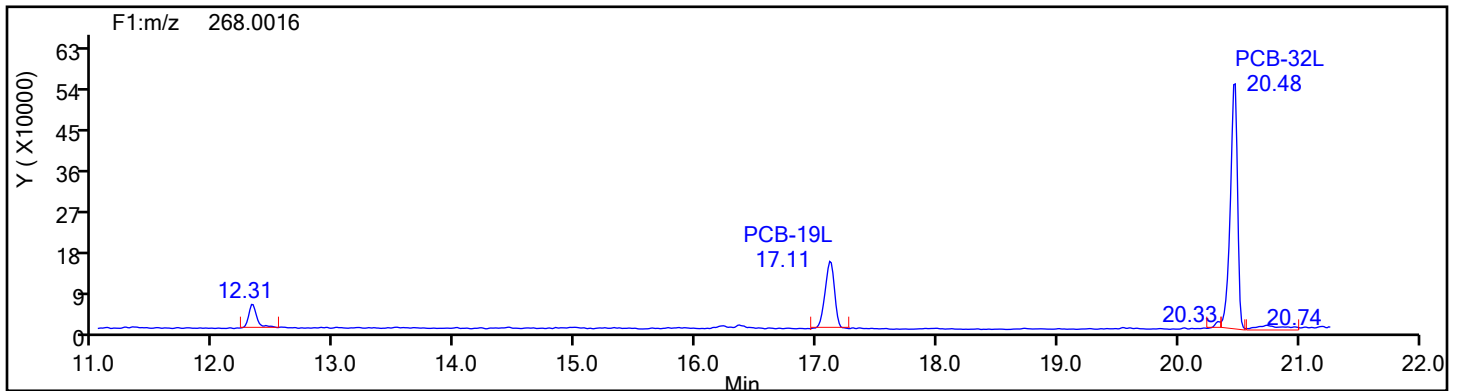
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

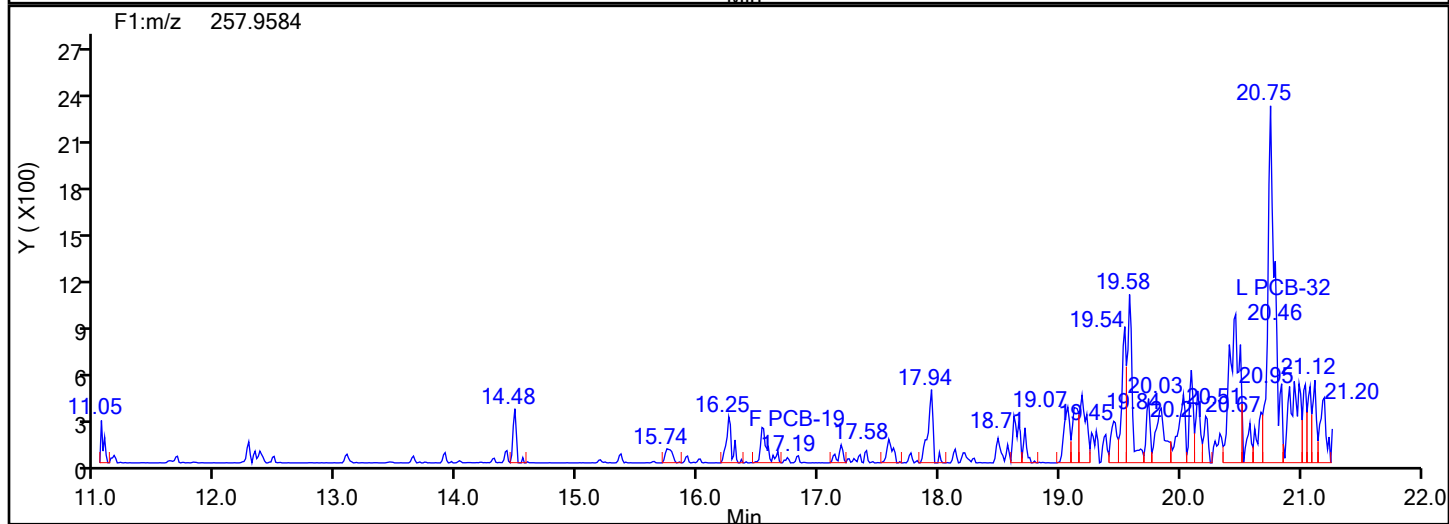
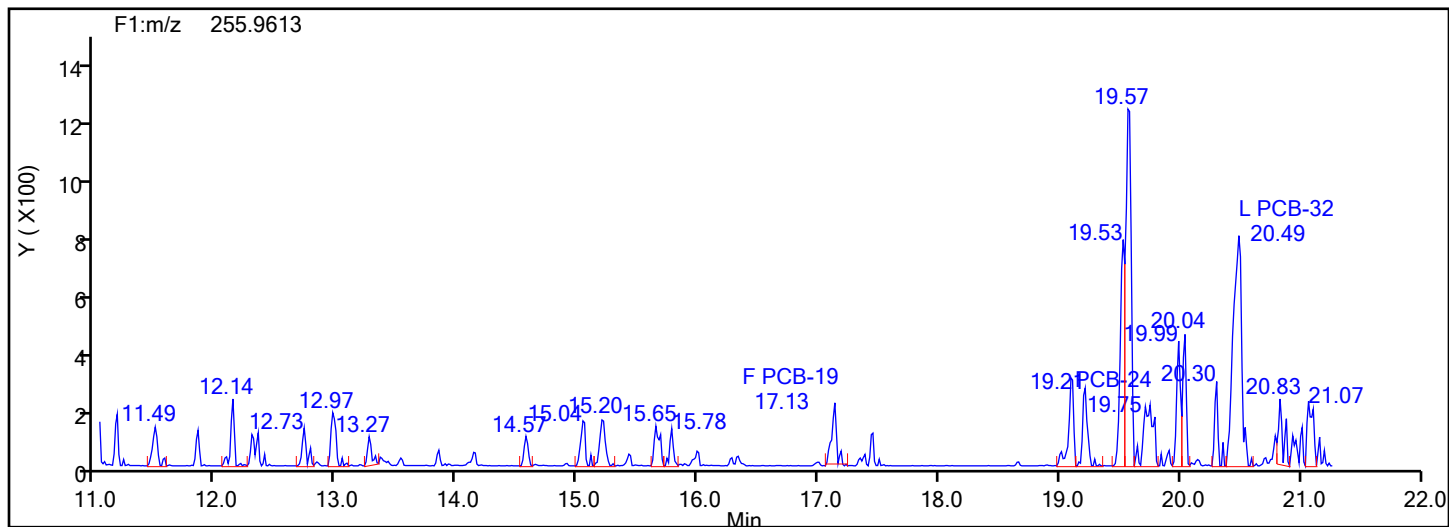
Limit Group: HR - EPA 23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN FB COMBINED

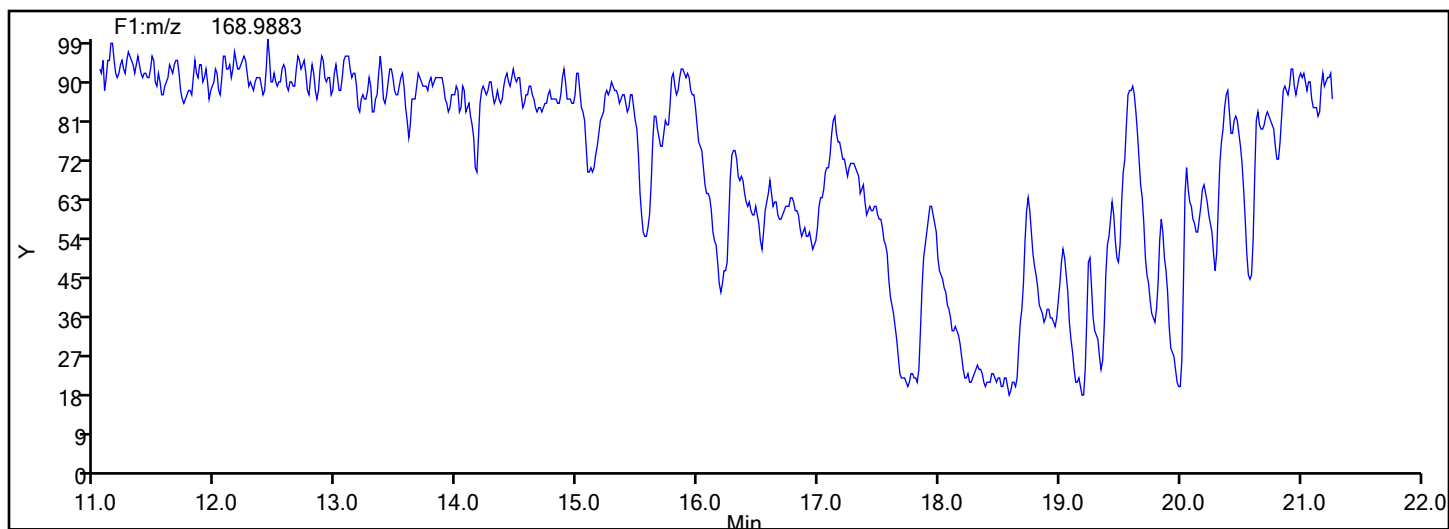
Sample Line#: 13

Column Dia: 0.25 mm

TriPCB F1

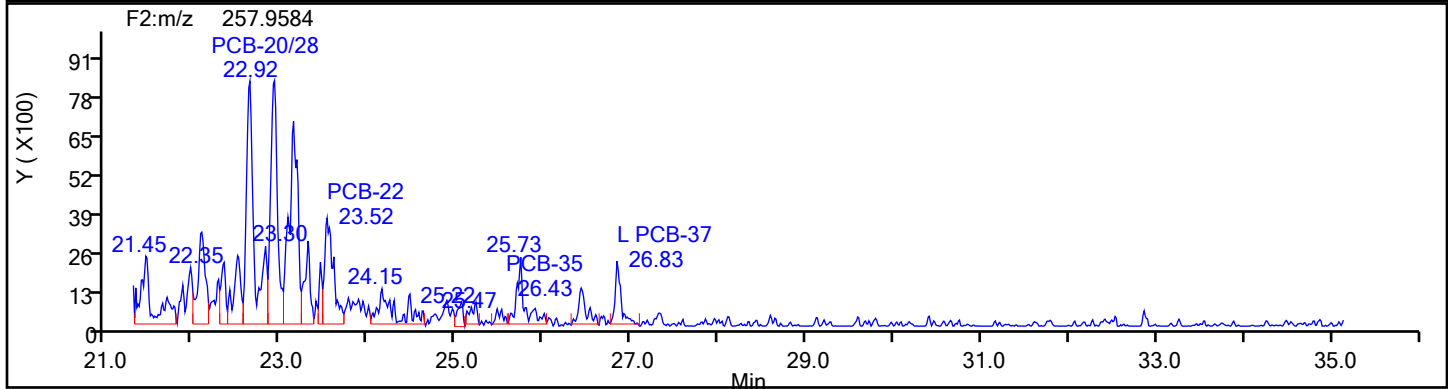
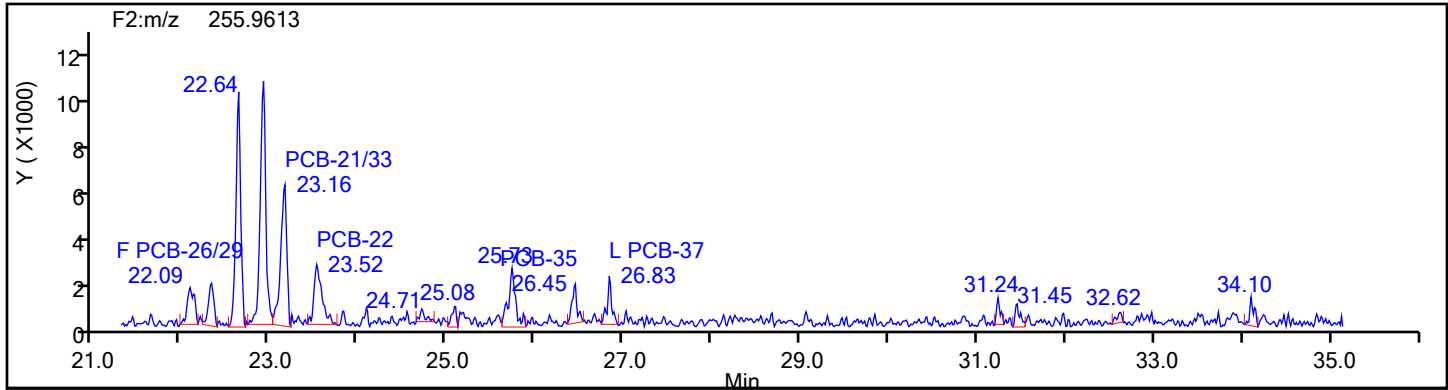


TriPCB F1 Lock Mass

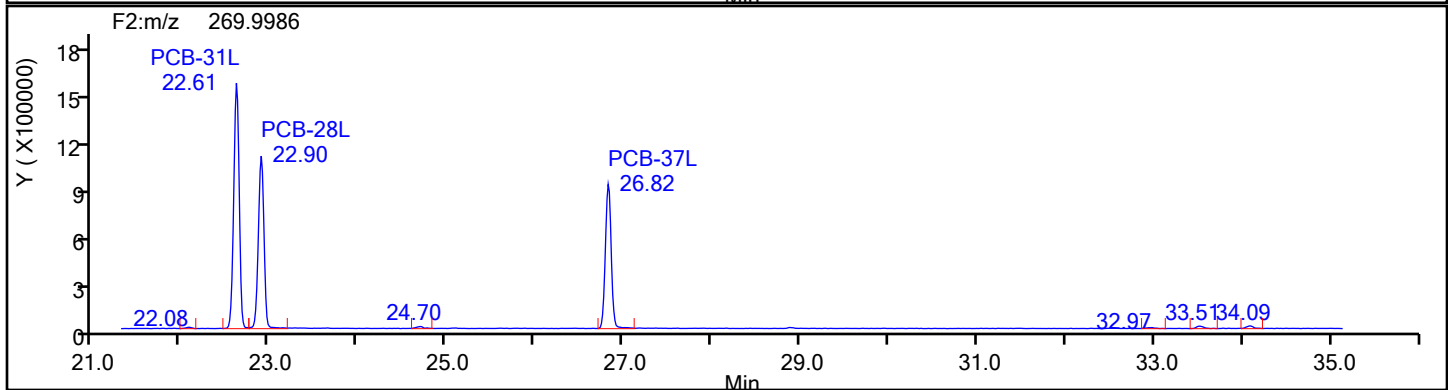
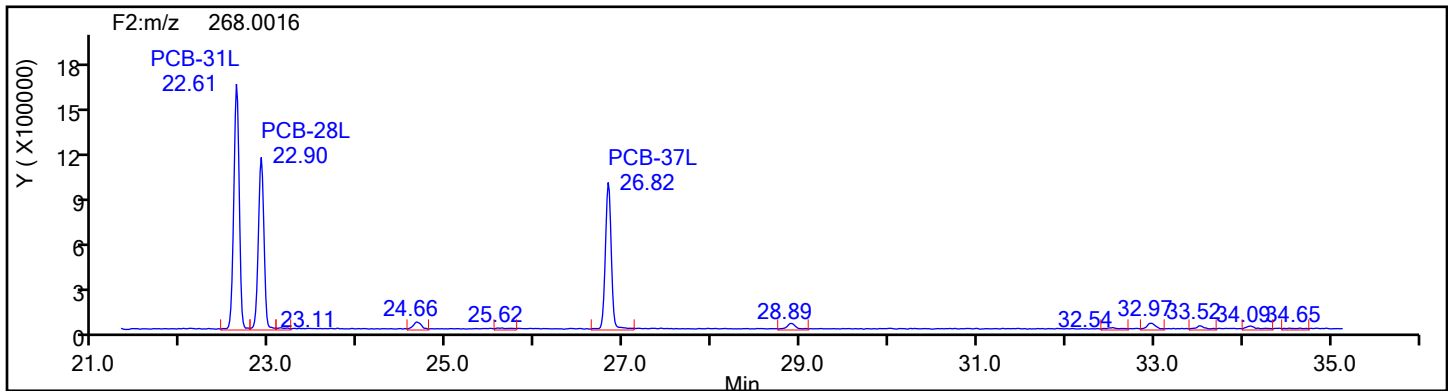


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

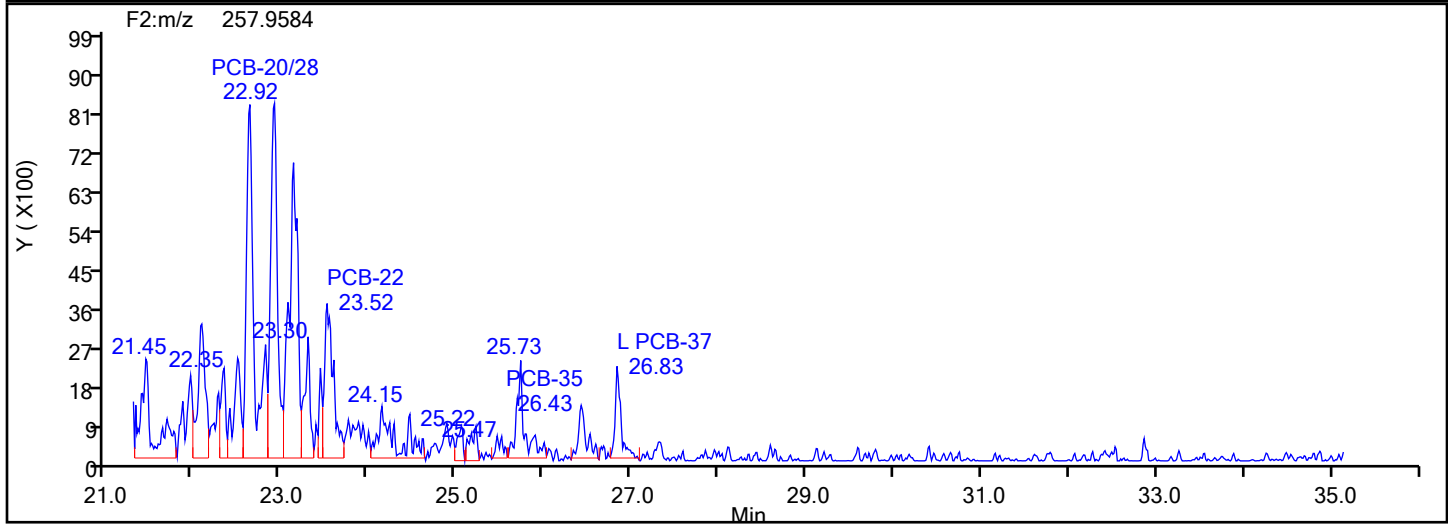
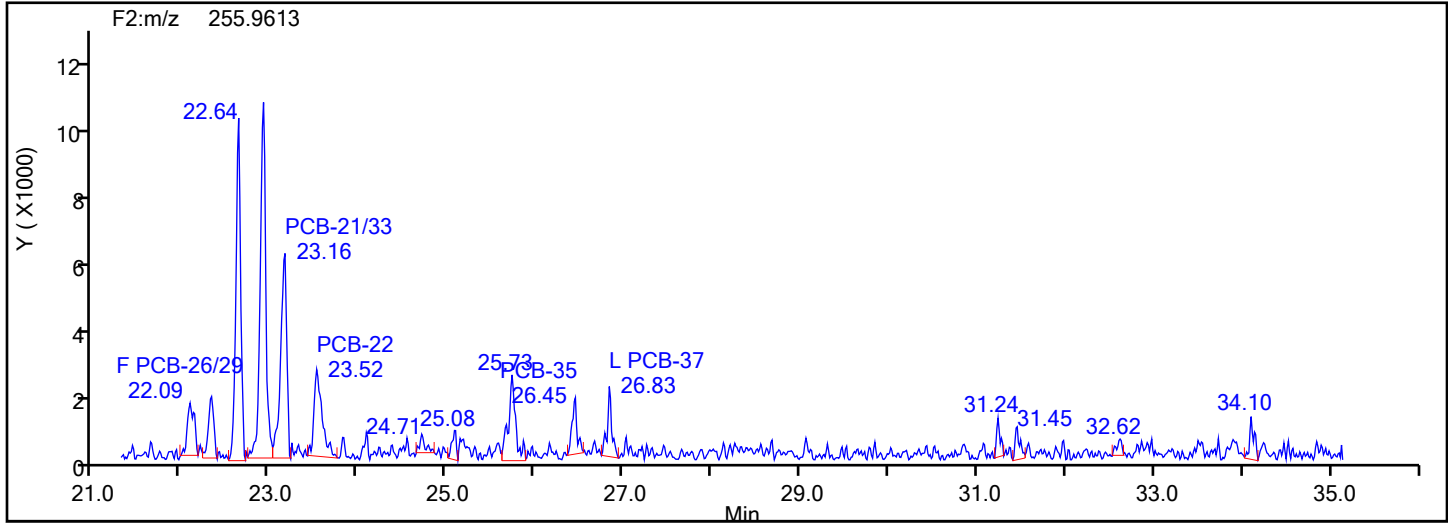


TriPCB F2 Standards

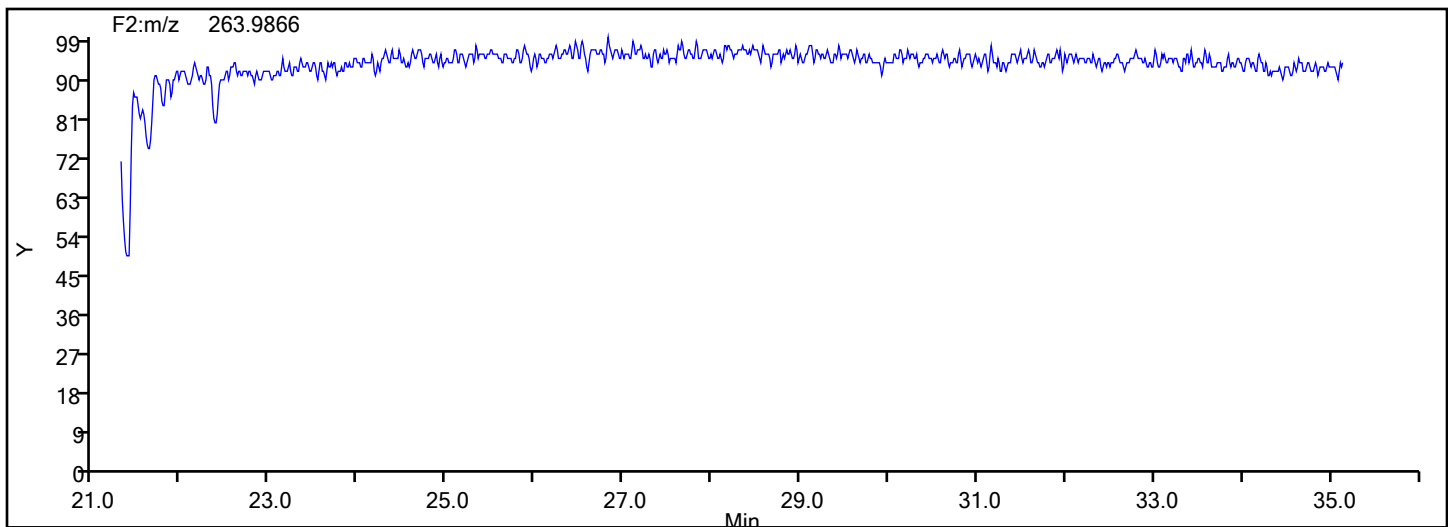


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

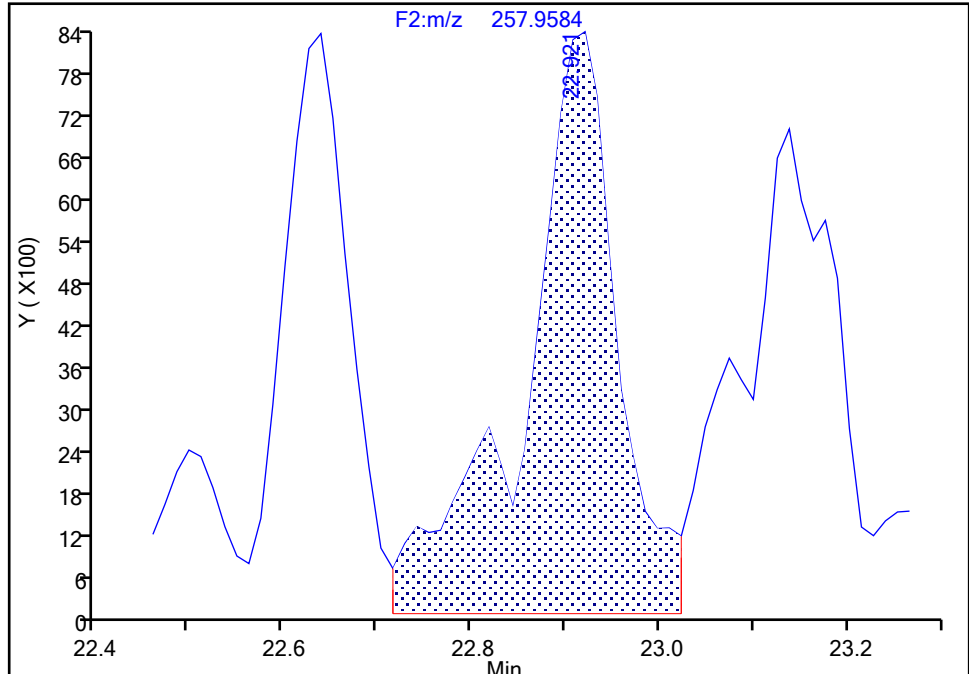
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Injection Date: 12-Jun-2024 07:39:00 Instrument ID: D2D
Lims ID: 140-36689-A-8-C Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-20/28, CAS: STL01799

Signal: 2

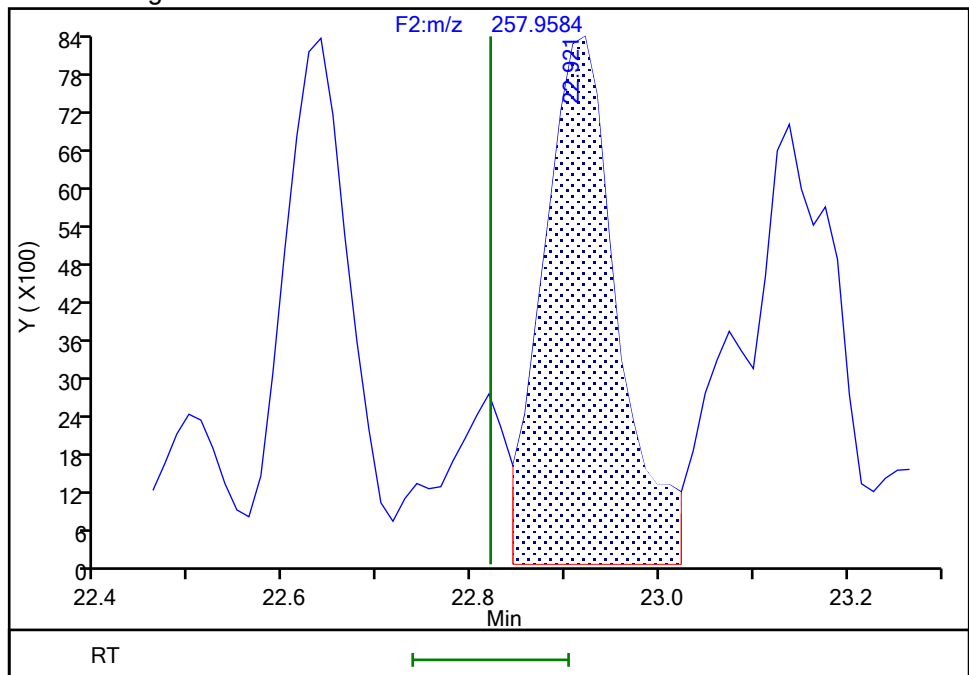
RT: 22.92
Area: 57296
Amount: 1.020072
Amount Units: pg/ul

Processing Integration Results



RT: 22.92
Area: 44897
Amount: 0.897271
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 17:03:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d

Injection Date: 12-Jun-2024 07:39:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN FB COMBINED

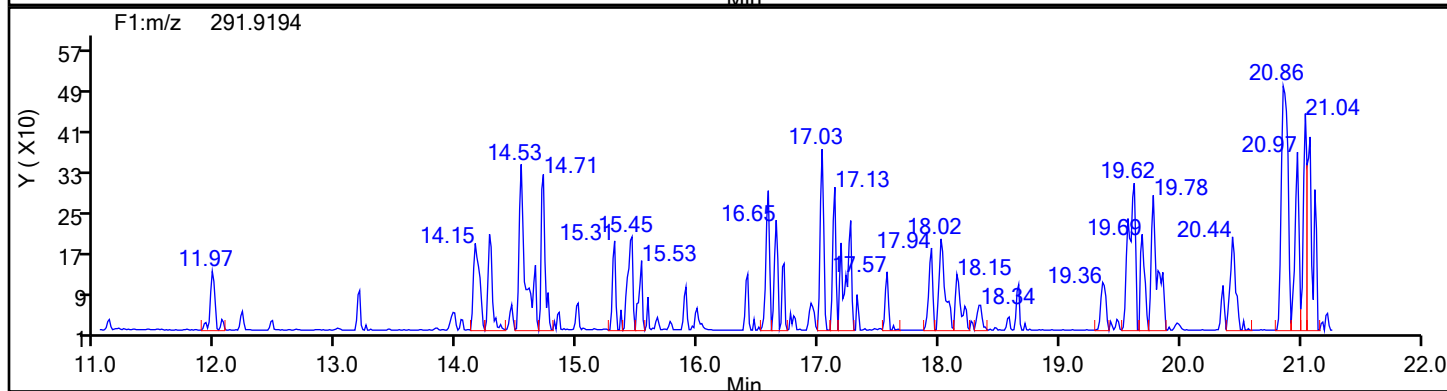
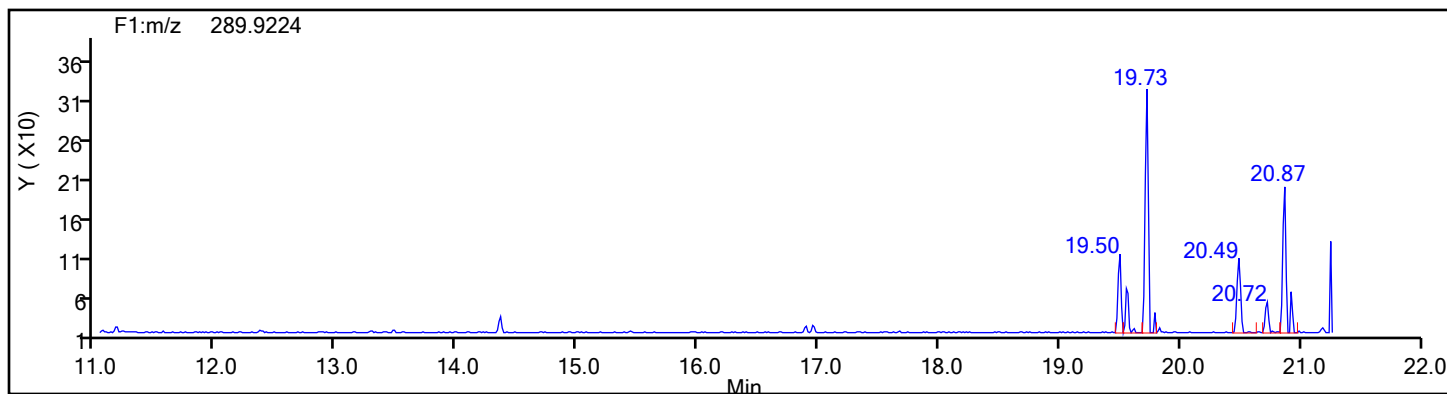
Worklist#: 87536

Sample Line#: 13

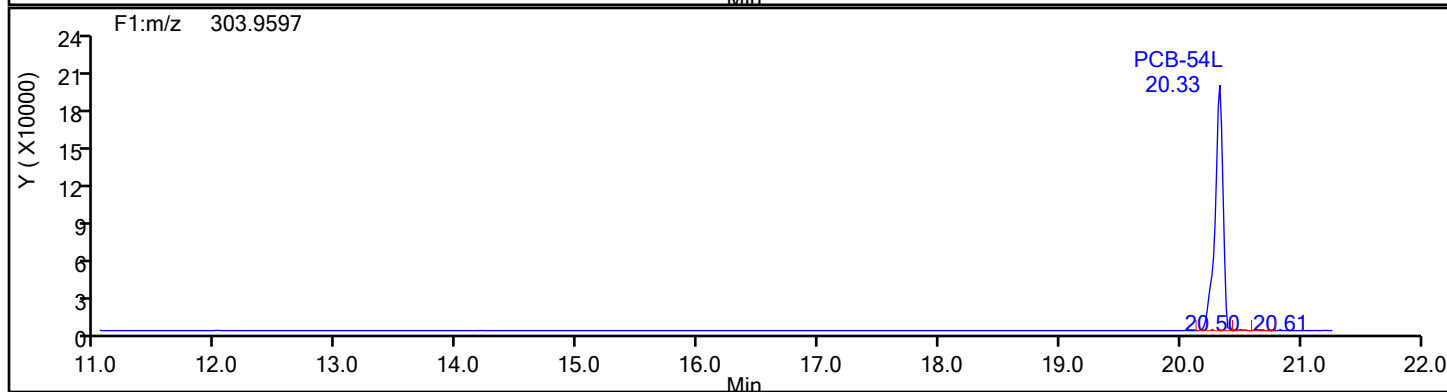
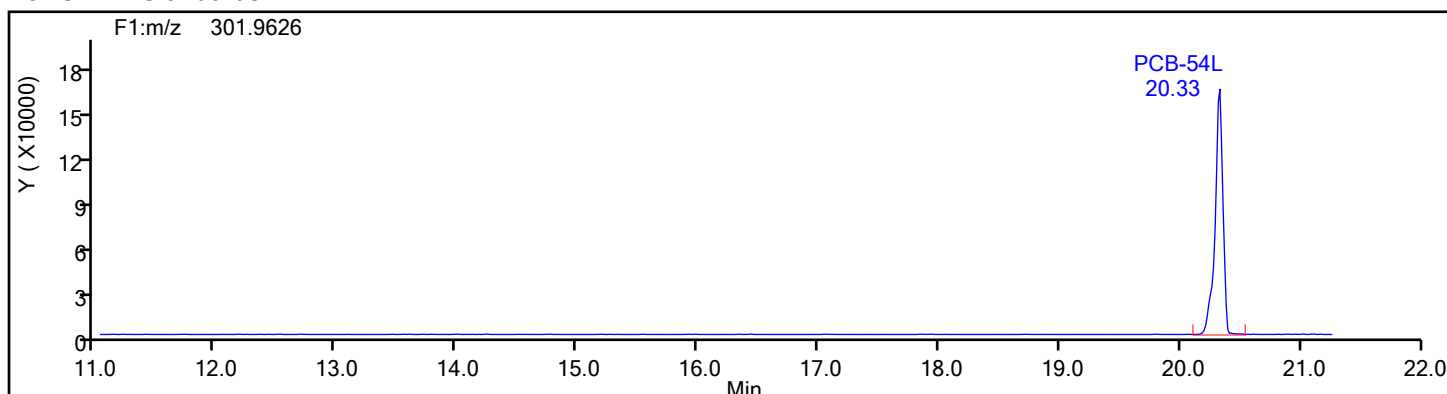
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

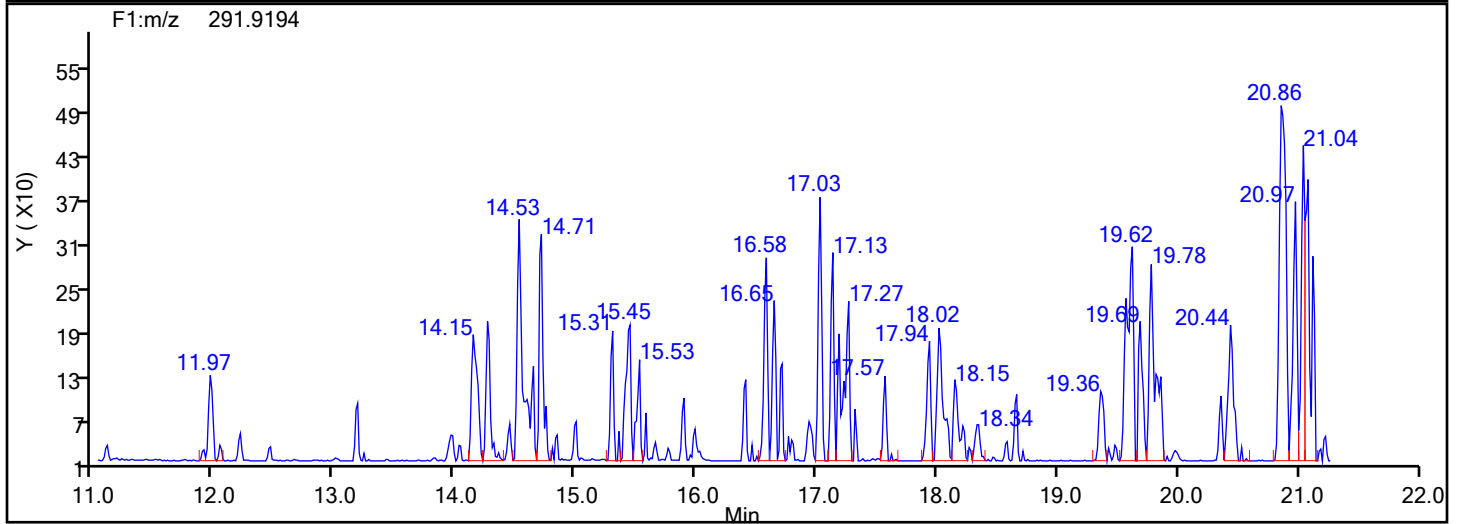
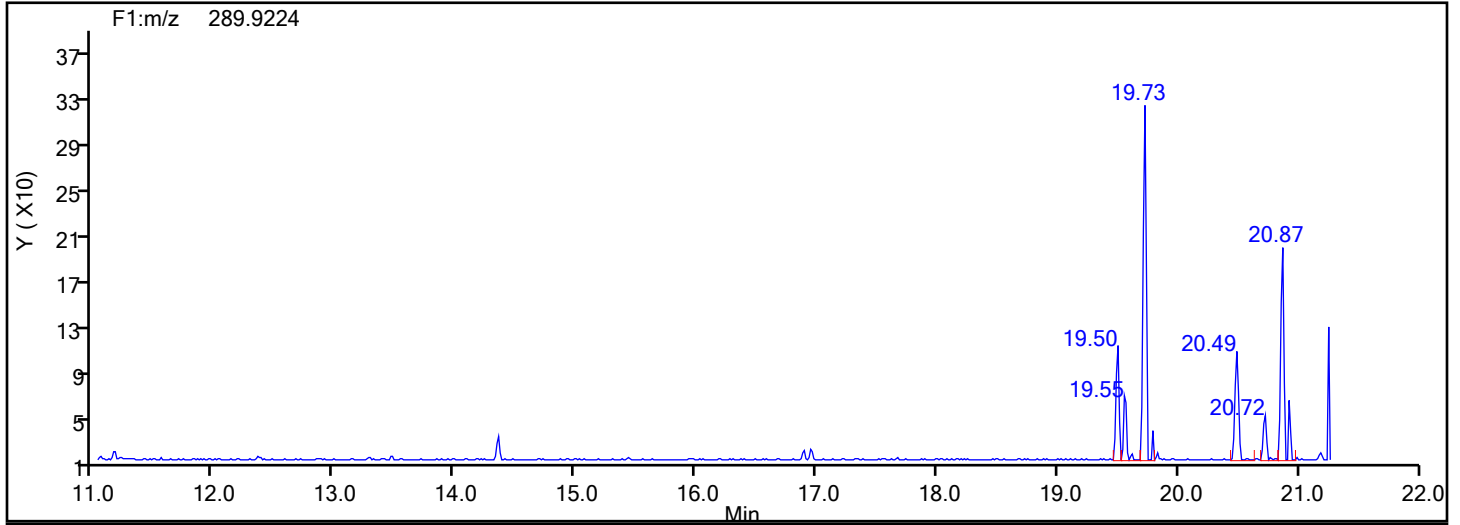


TePCB F1 Standards

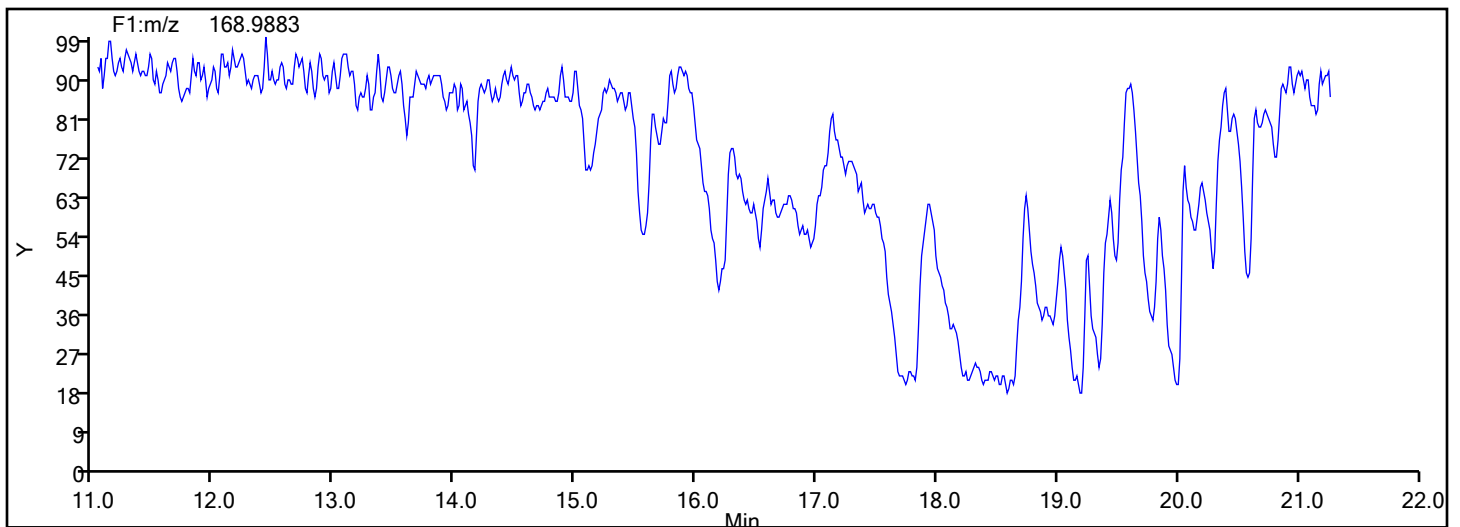


Eurofins Knoxville

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Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

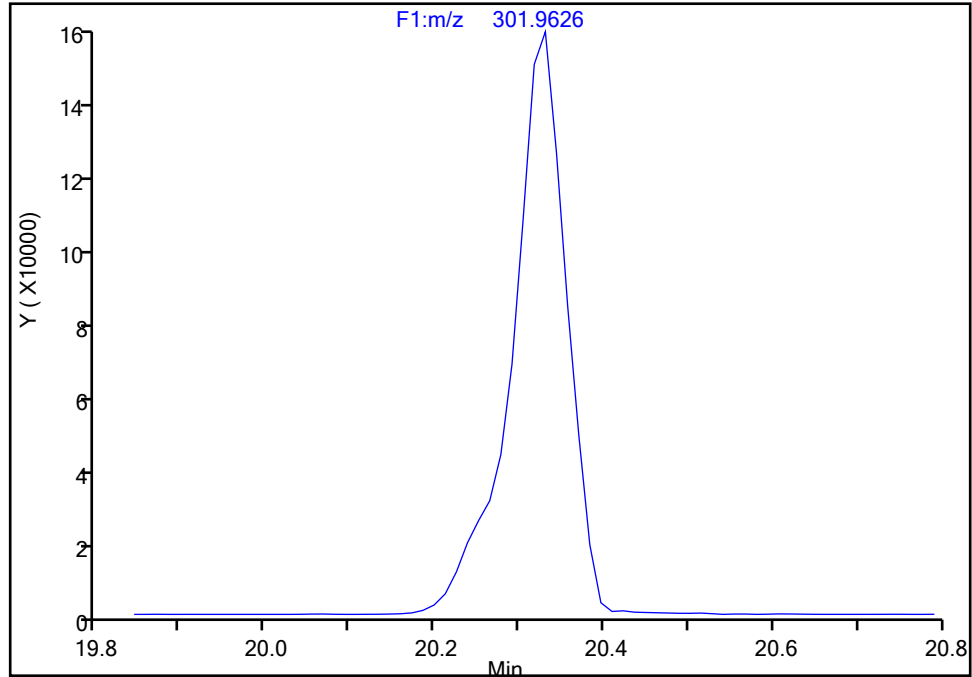
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Injection Date: 12-Jun-2024 07:39:00 Instrument ID: D2D
Lims ID: 140-36689-A-8-C Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 1

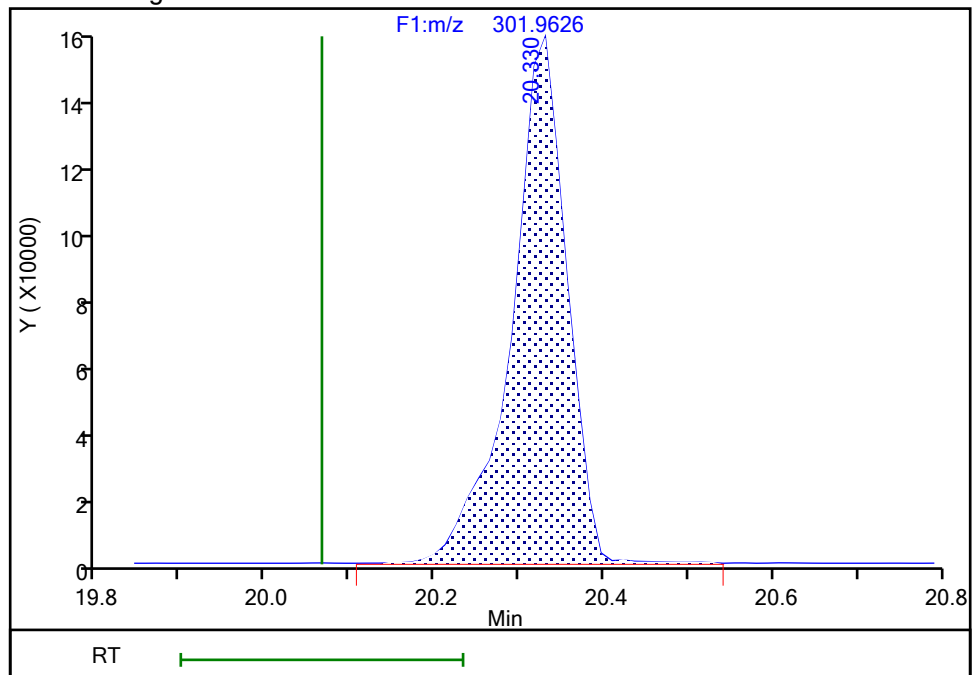
Not Detected
Expected RT: 20.07

Processing Integration Results



RT: 20.33
Area: 719810
Amount: 66.018155
Amount Units: pg/ul

Manual Integration Results



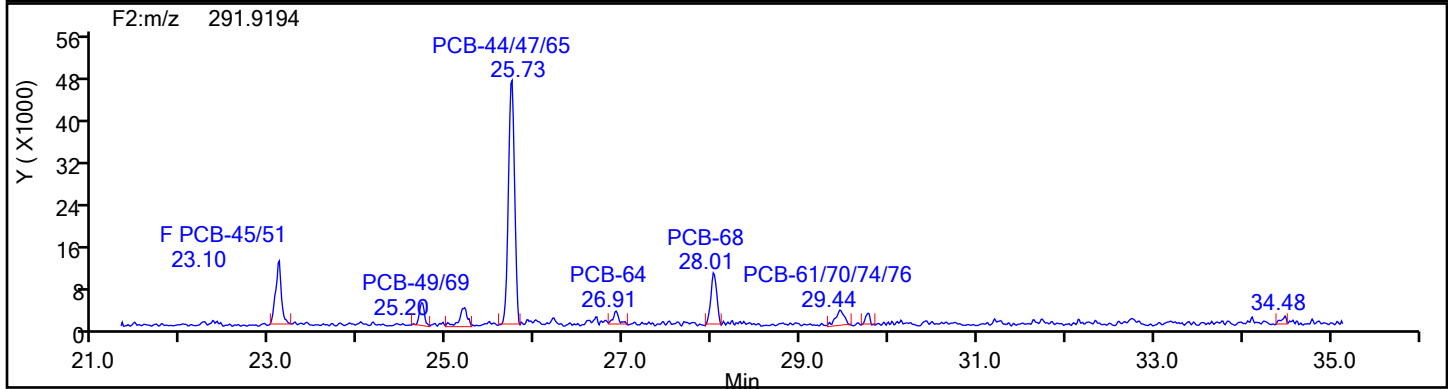
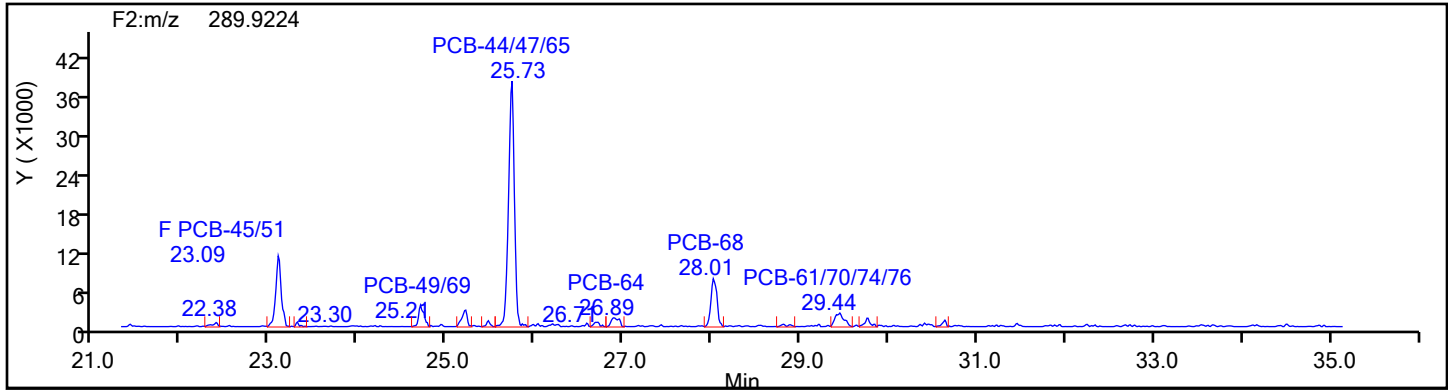
Reviewer: P0IK, 12-Jun-2024 17:03:37 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

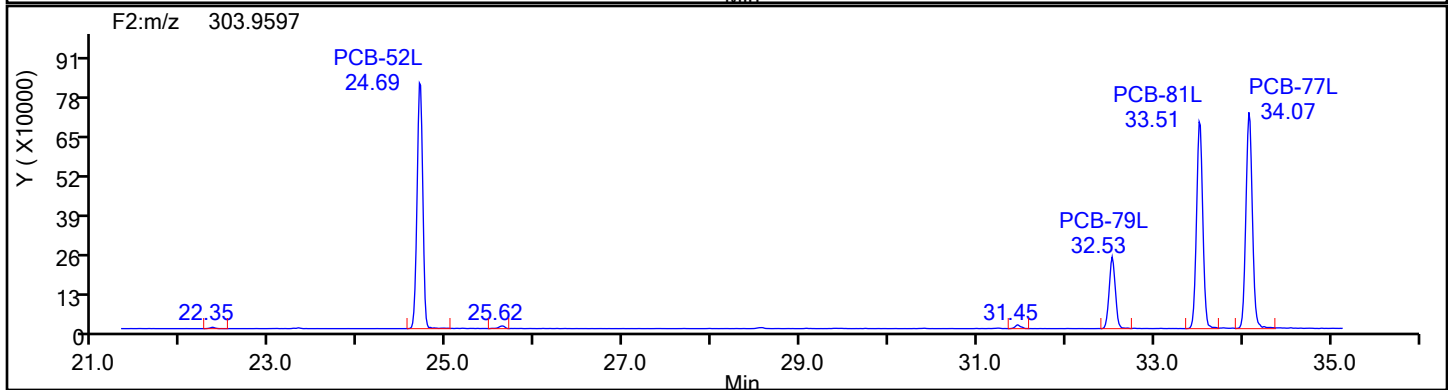
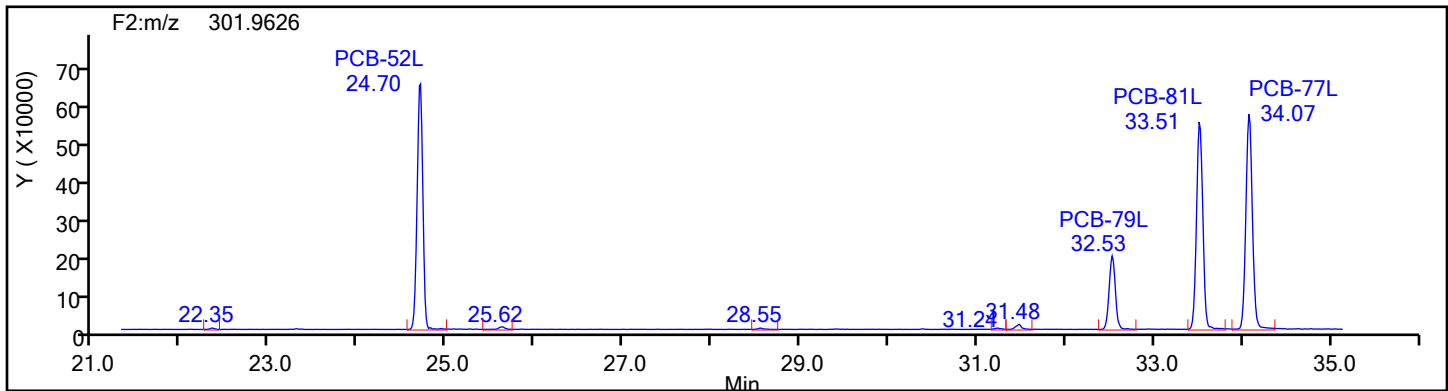
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

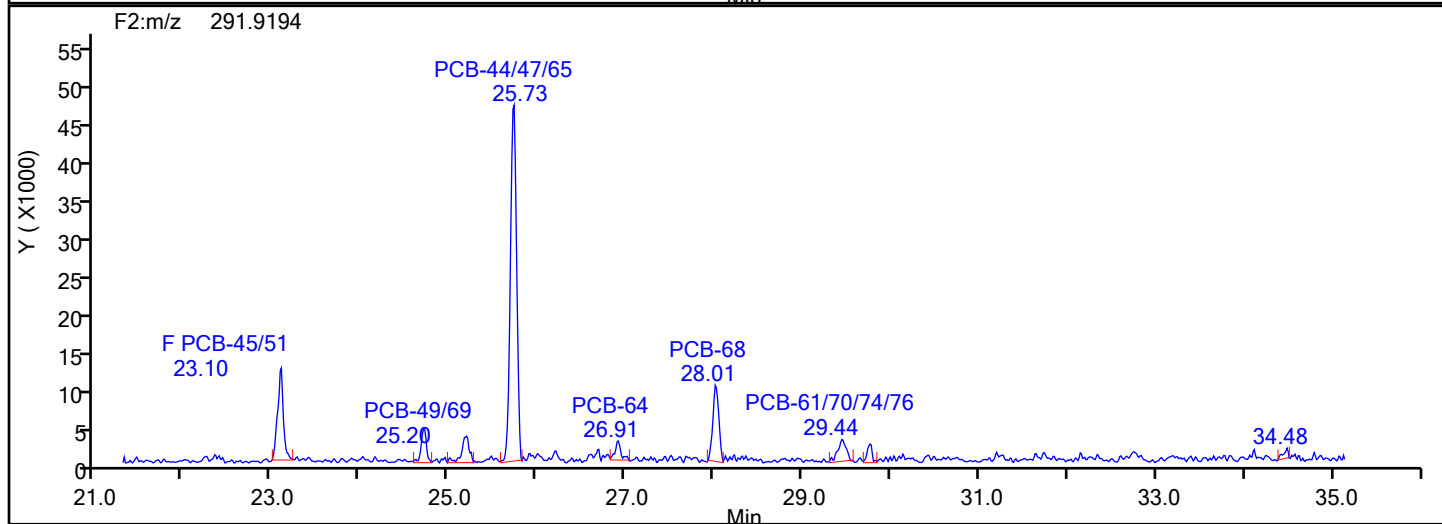
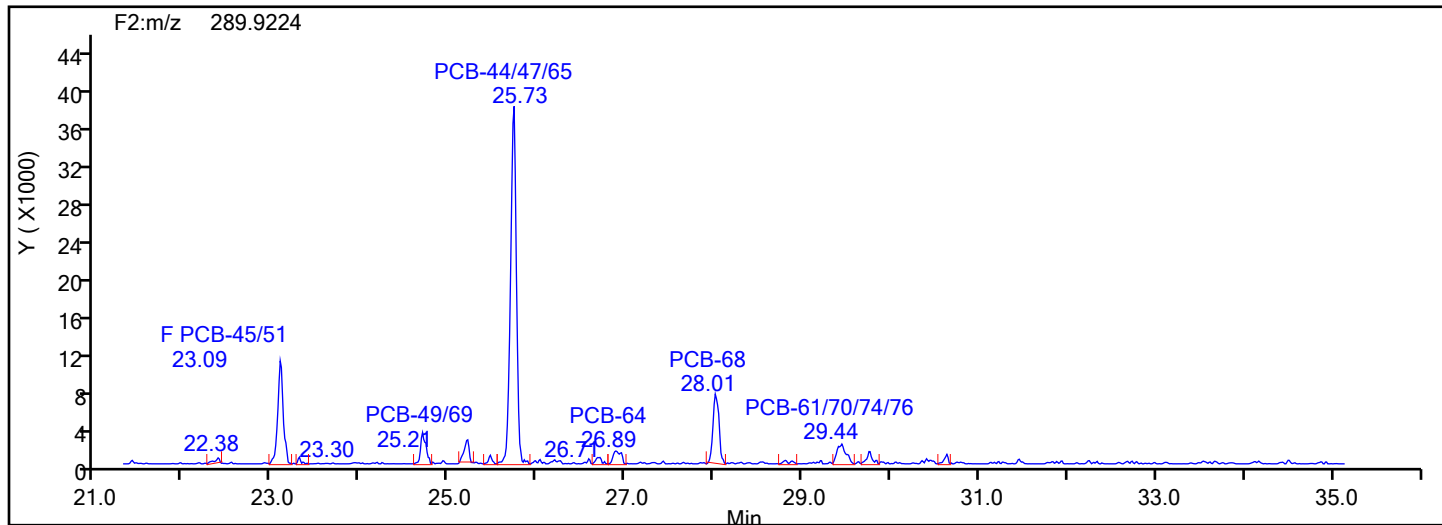


TePCB F2 Standards

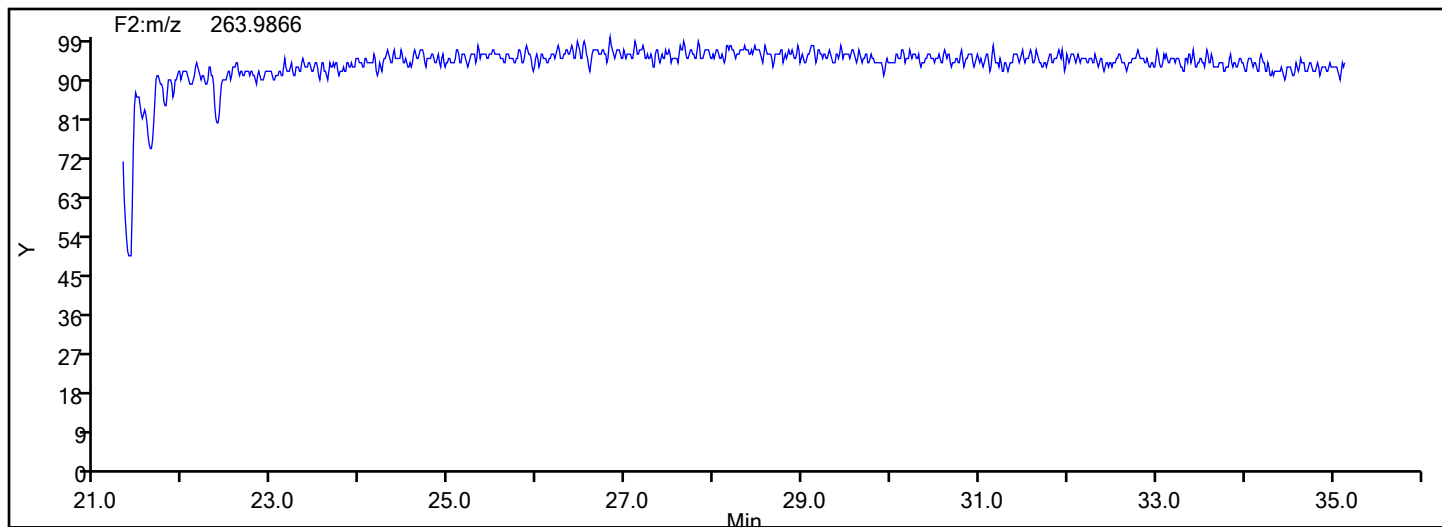


Eurofins Knoxville

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Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

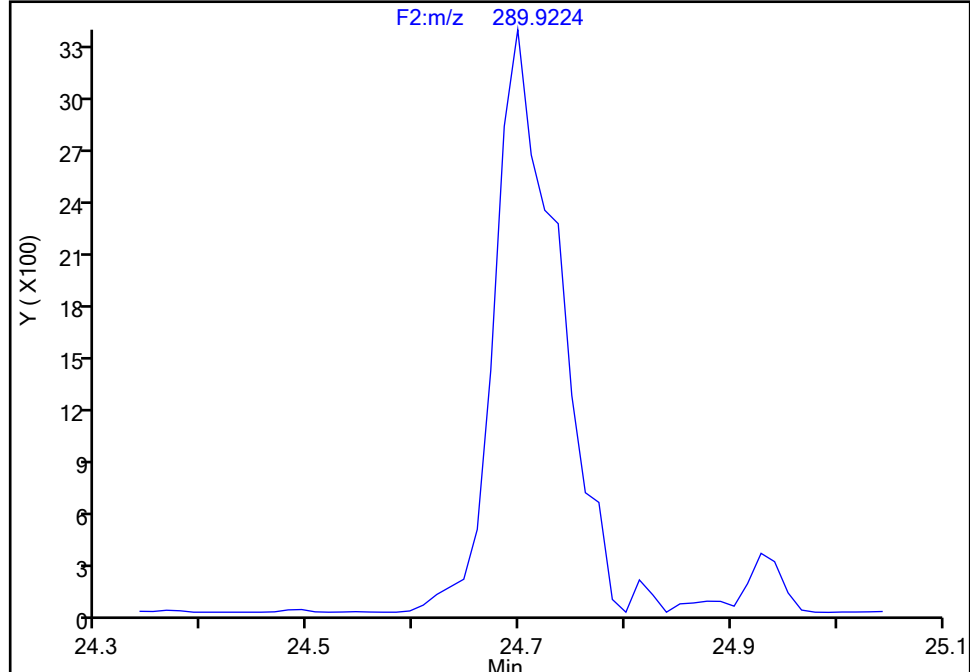
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Injection Date: 12-Jun-2024 07:39:00 Instrument ID: D2D
Lims ID: 140-36689-A-8-C Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 1

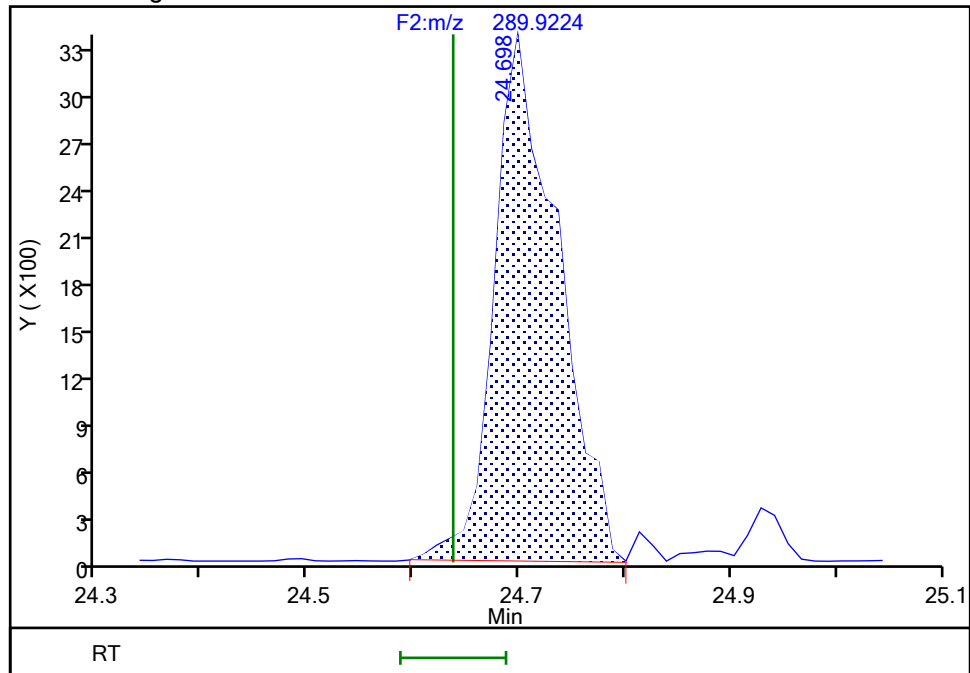
Not Detected
Expected RT: 24.64

Processing Integration Results



RT: 24.70
Area: 13726
Amount: 0.539248
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 17:04:35 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

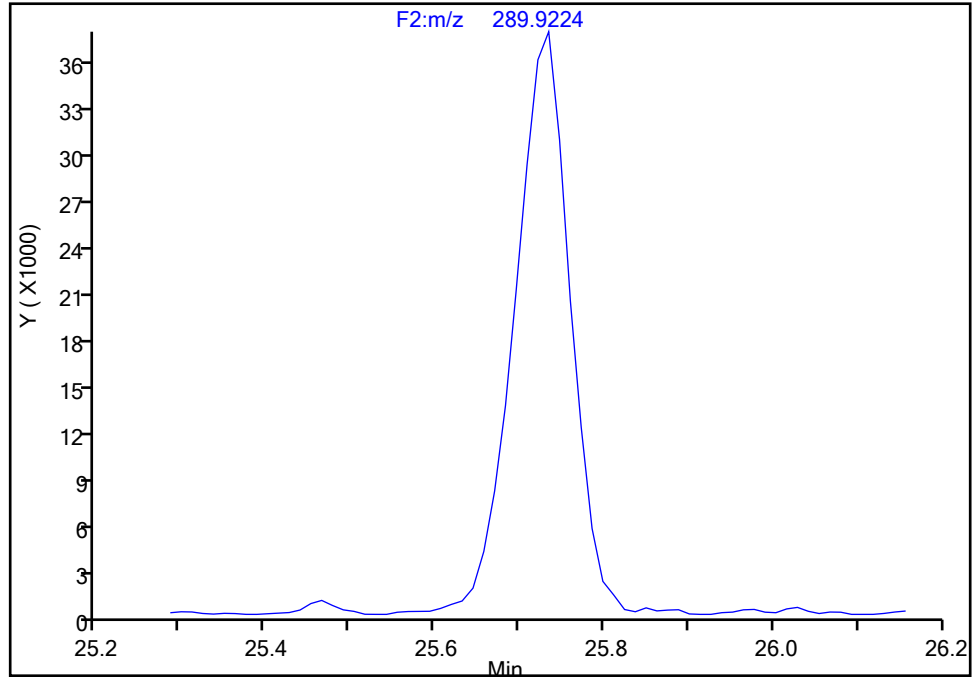
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Injection Date: 12-Jun-2024 07:39:00 Instrument ID: D2D
Lims ID: 140-36689-A-8-C Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-44/47/65, CAS: STL01803

Signal: 1

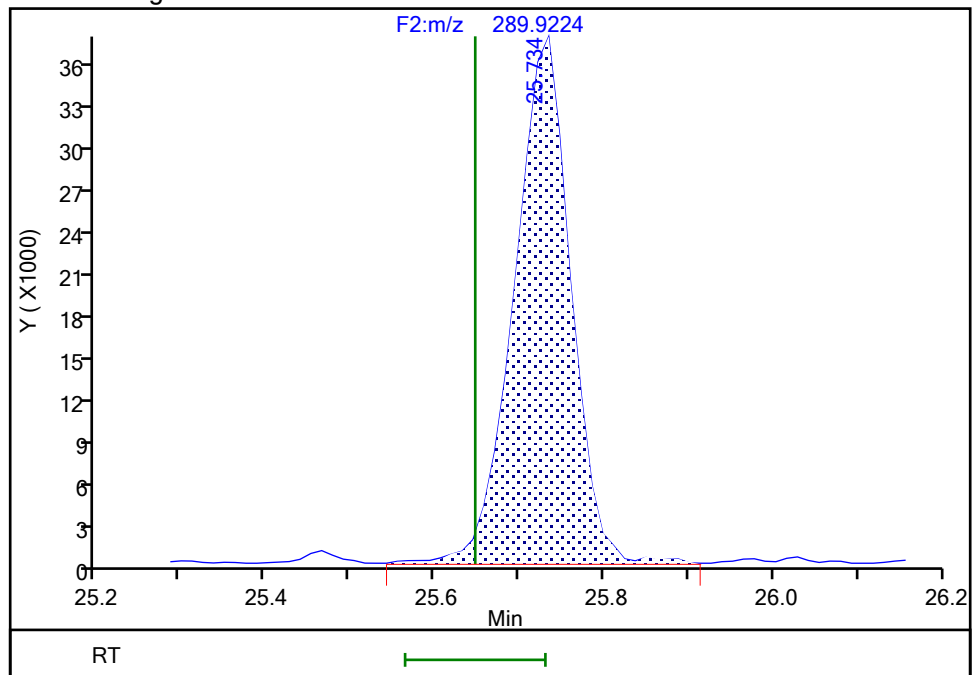
Not Detected
Expected RT: 25.65

Processing Integration Results



RT: 25.73
Area: 174469
Amount: 6.518700
Amount Units: pg/ul

Manual Integration Results



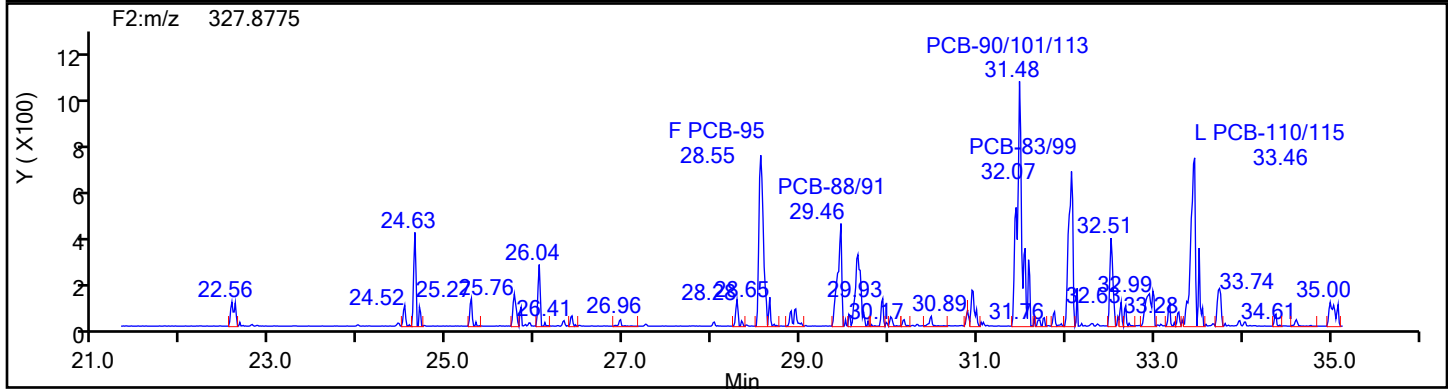
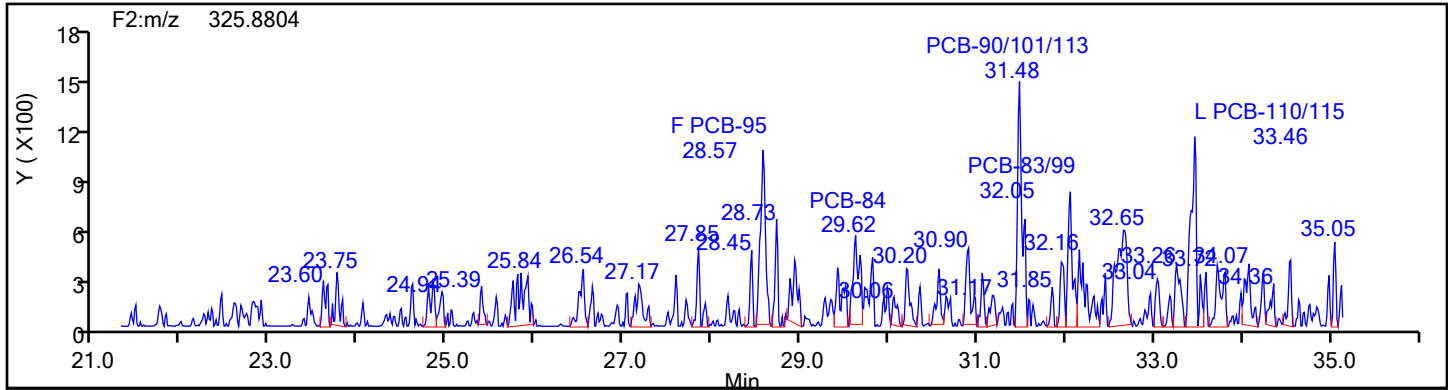
Reviewer: P0IK, 12-Jun-2024 17:02:17 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

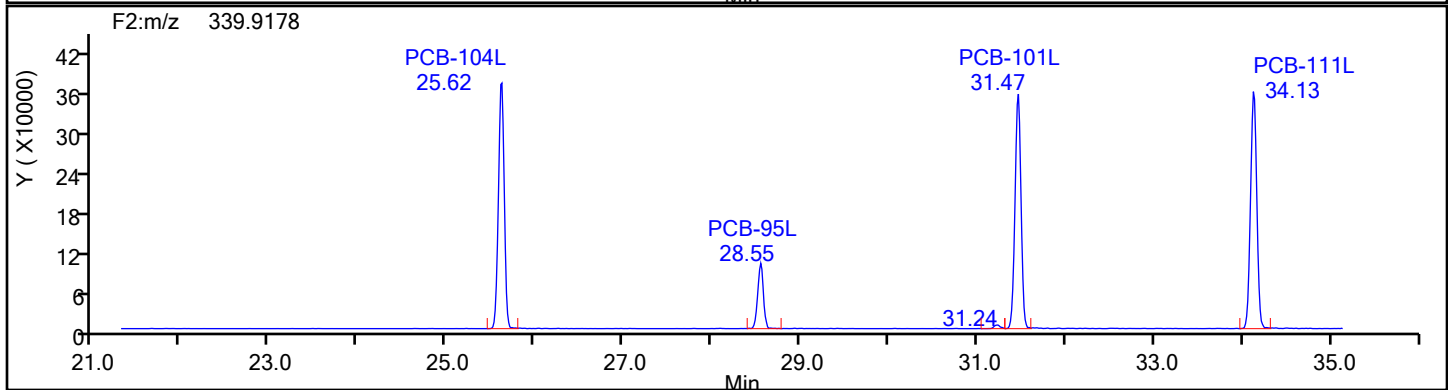
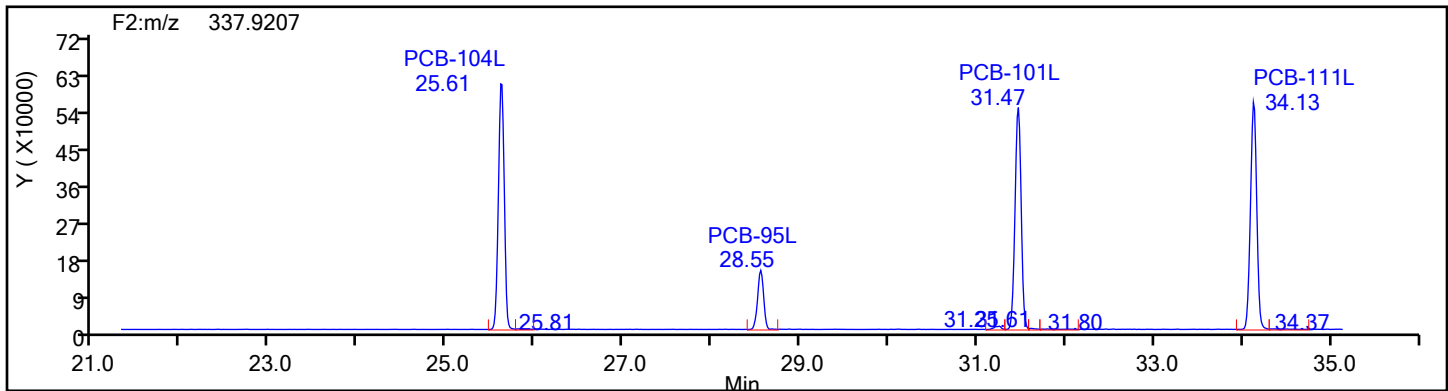
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

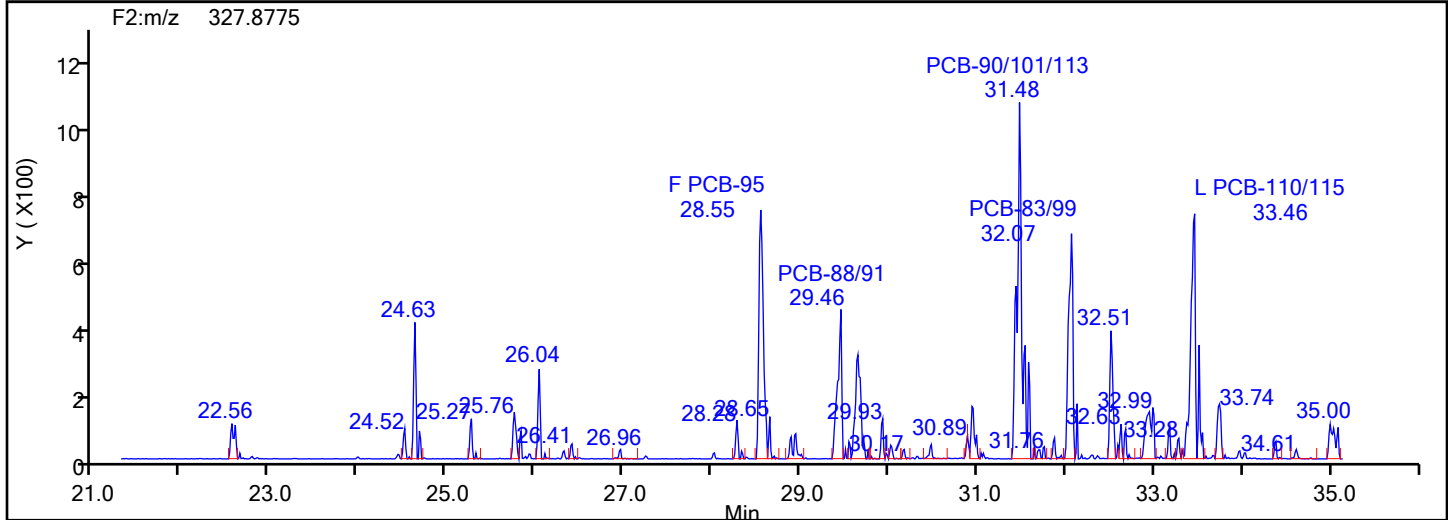
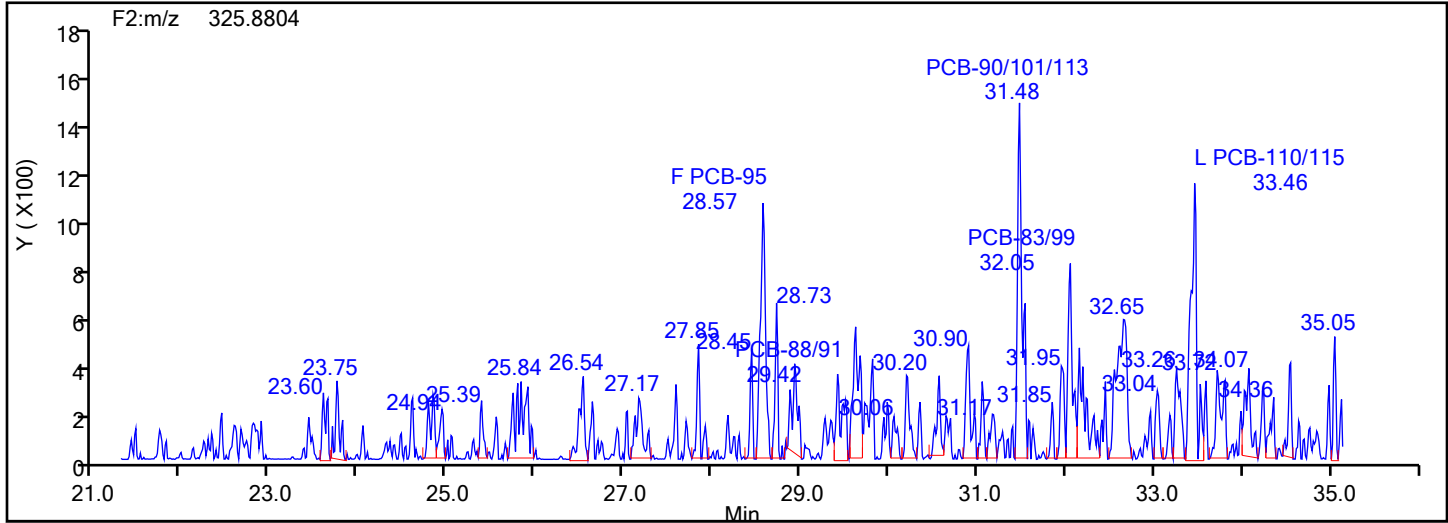


PePCB F2 Standards

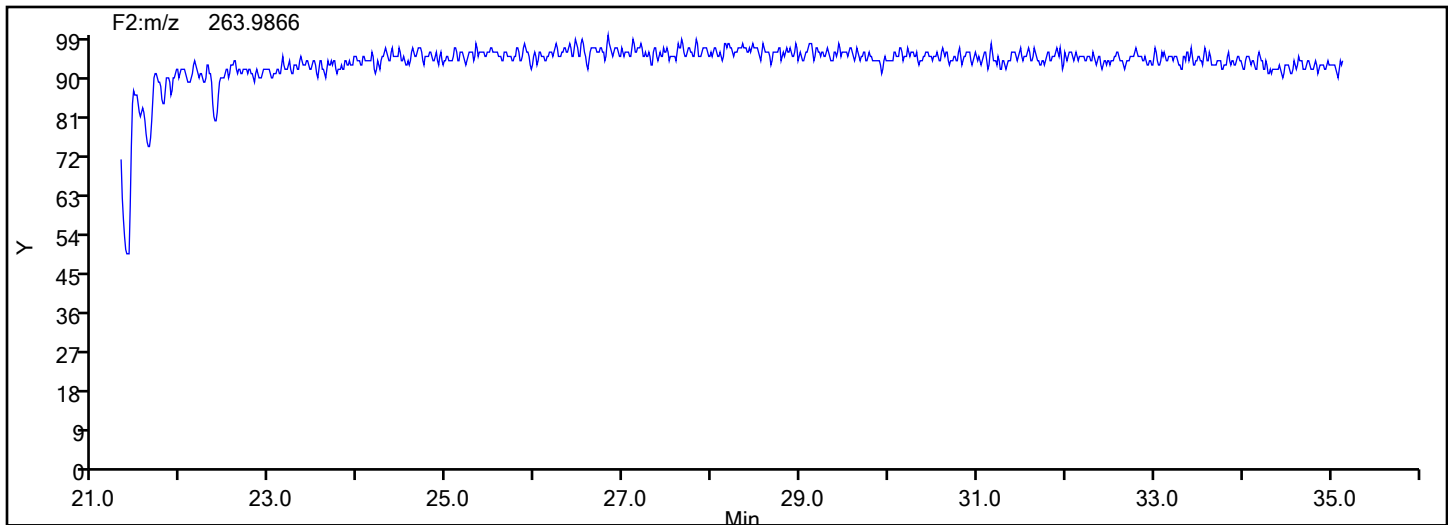


Eurofins Knoxville

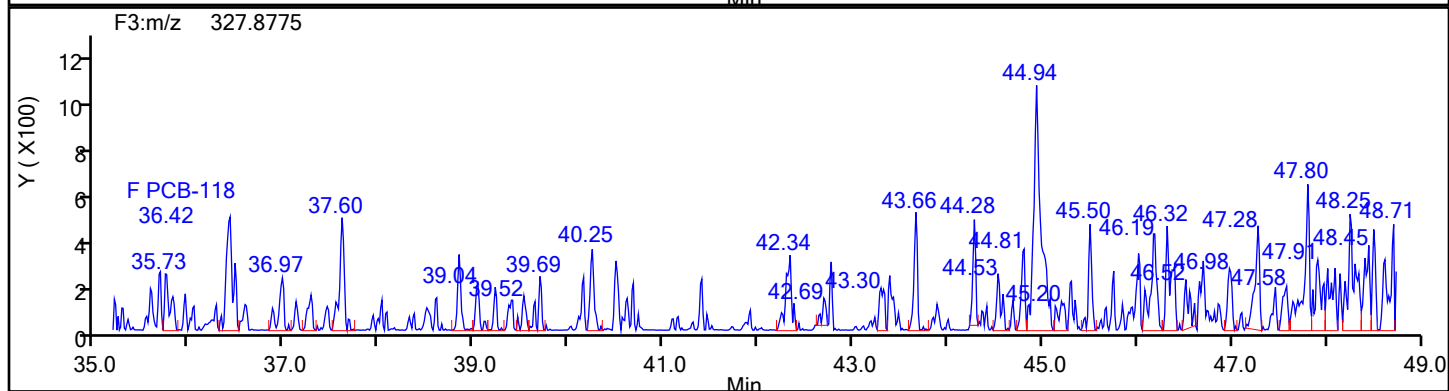
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Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



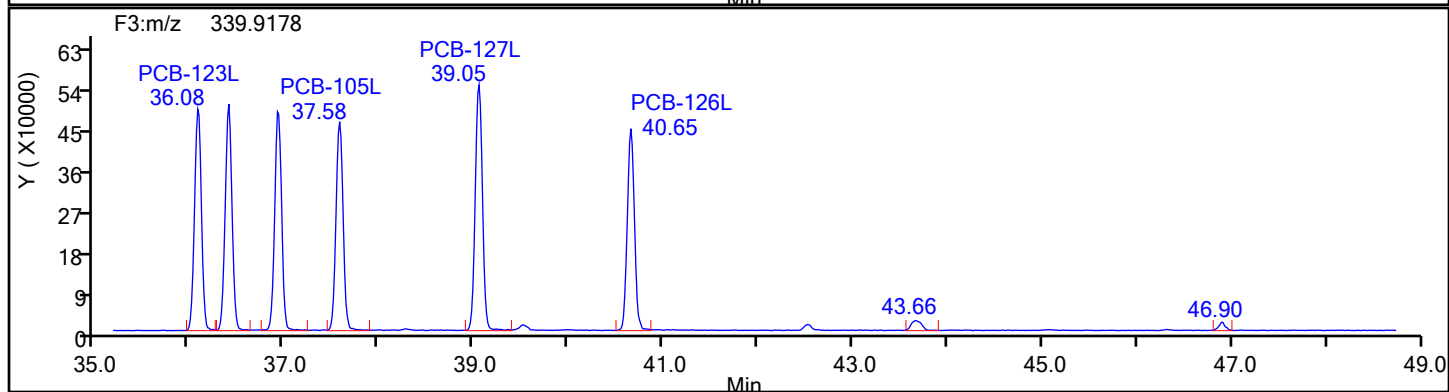
PePCB F2 Lock Mass



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d		
Injection Date:	12-Jun-2024 07:39:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23-NO.3 BOILER-RUN FB COMBINED		
Worklist#:	87536	Sample Line#:	13
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
PePCB F3			



Chromatogram showing peaks for PCB-123L, PCB-105L, PCB-127L, and PCB-126L. The x-axis is time in minutes (35.0 to 49.0) and the y-axis is intensity Y (X1000000). Peaks are labeled with retention times: 36.08, 37.58, 39.05, 40.65, 39.52, 42.51, 43.68, and 46.90.



Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

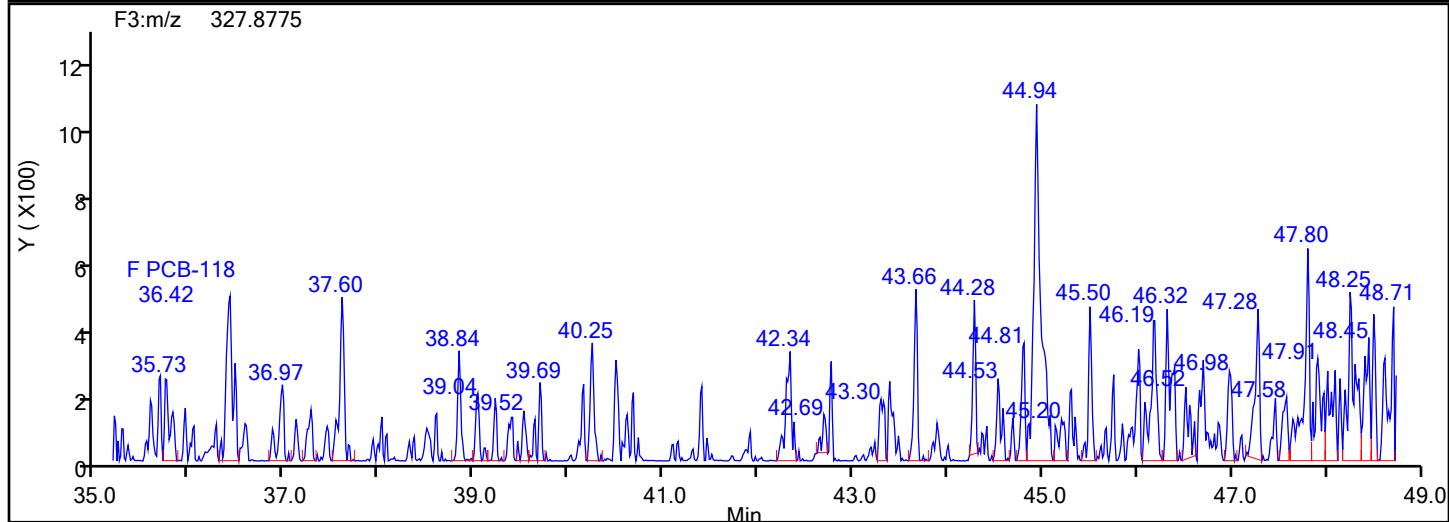
Limit Group: HR - EPA 23 PCB ICAL

Worklist#: 87536

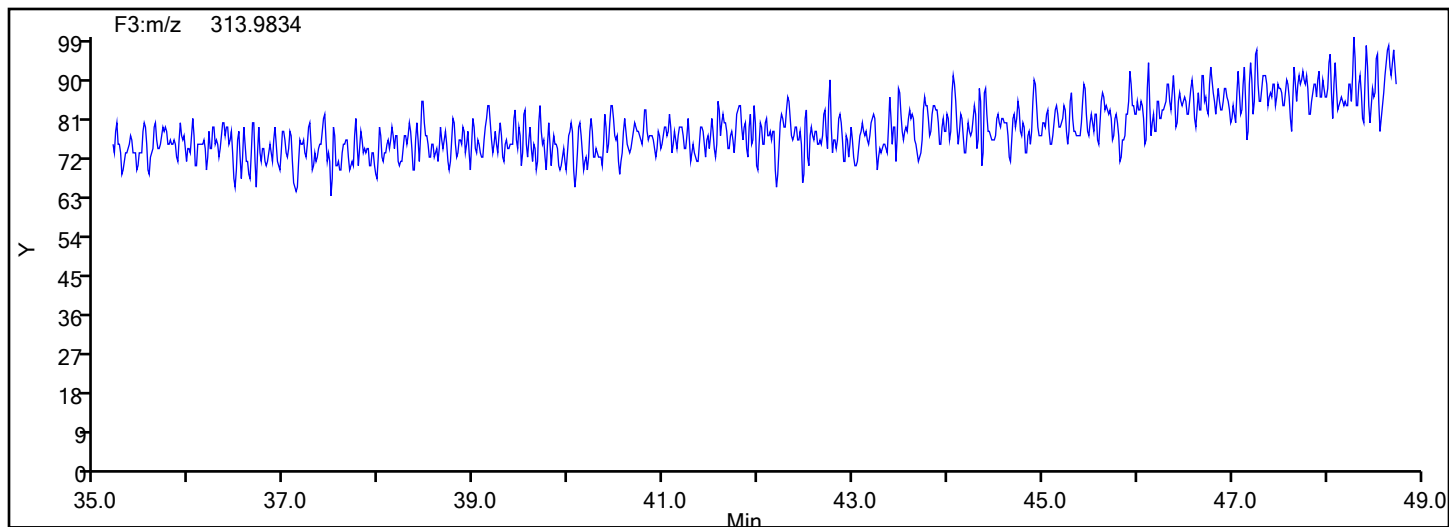
Sample Line#: 13

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

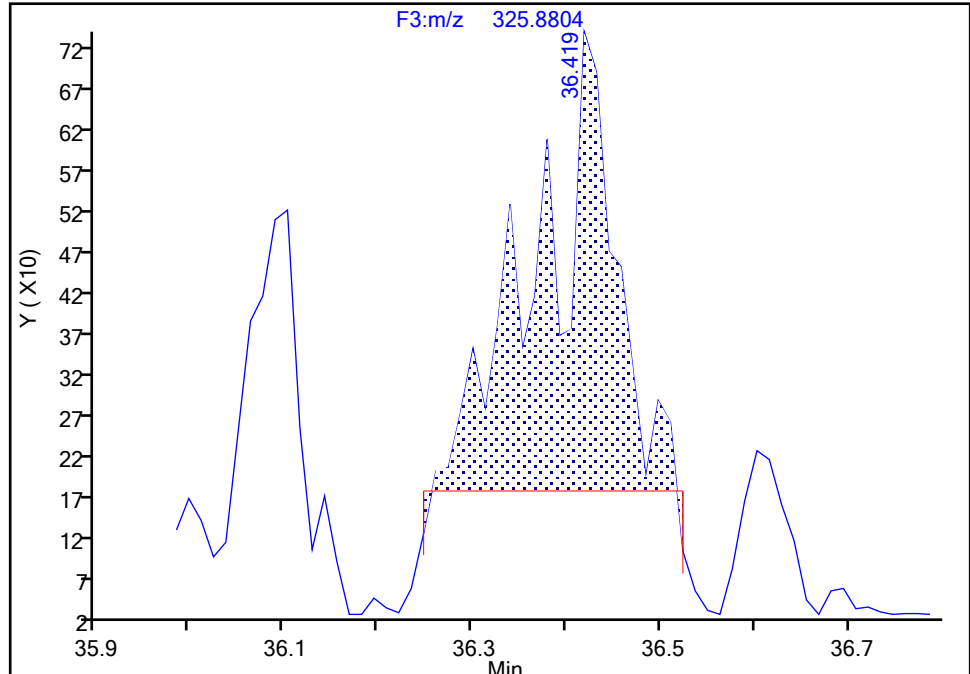
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Instrument ID: D2D
Lims ID: 140-36689-A-8-C Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-118, CAS: 31508-00-6

Signal: 1

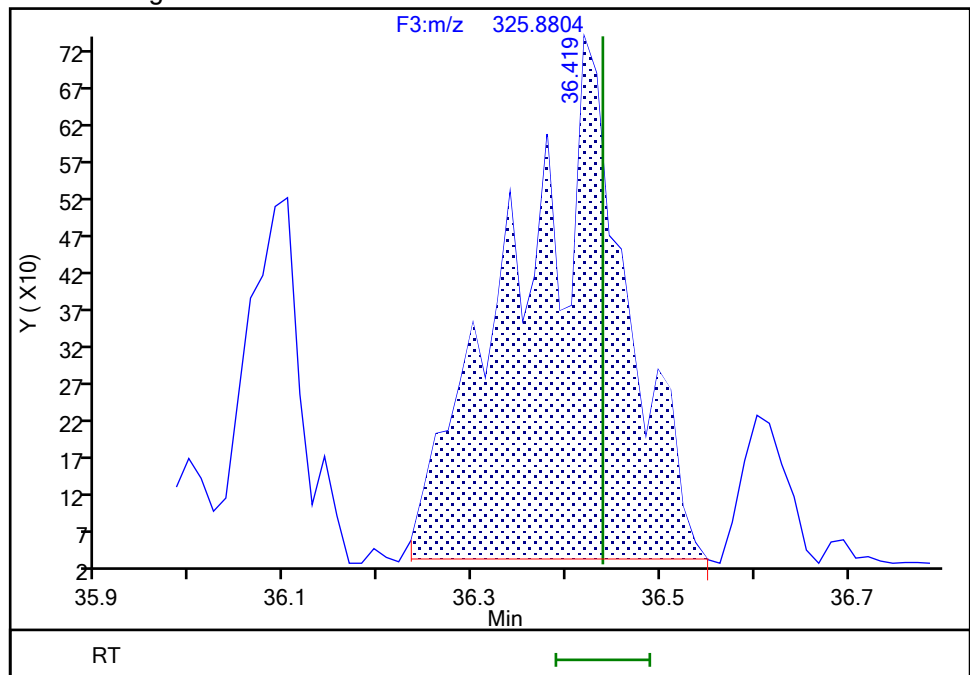
RT: 36.42
Area: 3281
Amount: 0.071057
Amount Units: pg/ul

Processing Integration Results



RT: 36.42
Area: 5829
Amount: 0.103510
Amount Units: pg/ul

Manual Integration Results



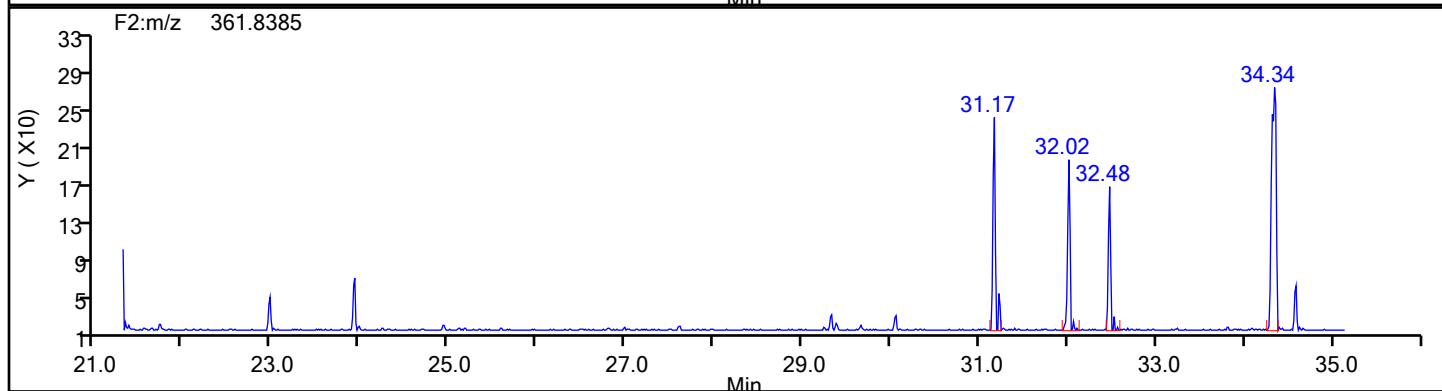
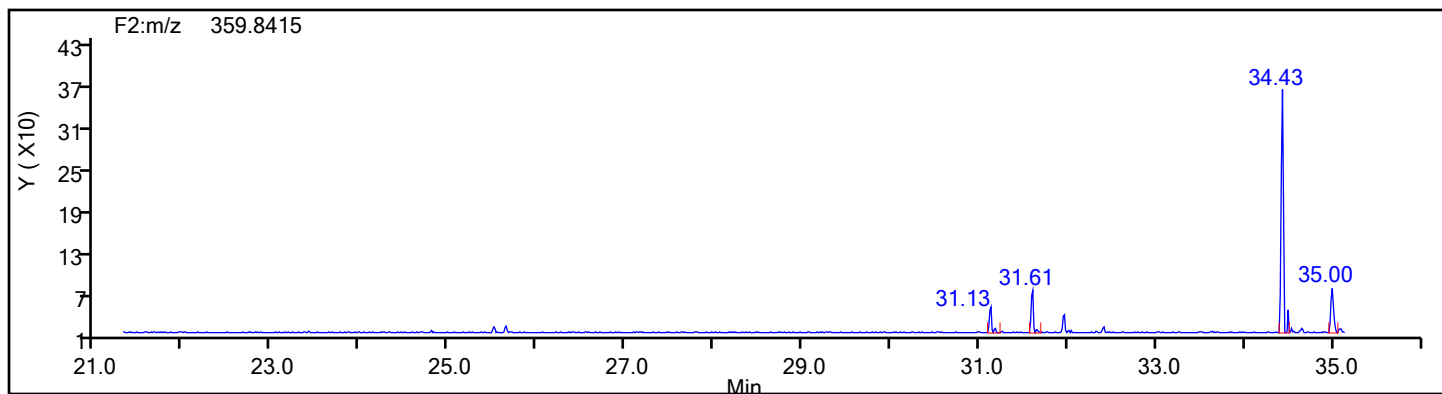
Reviewer: P0IK, 12-Jun-2024 17:08:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

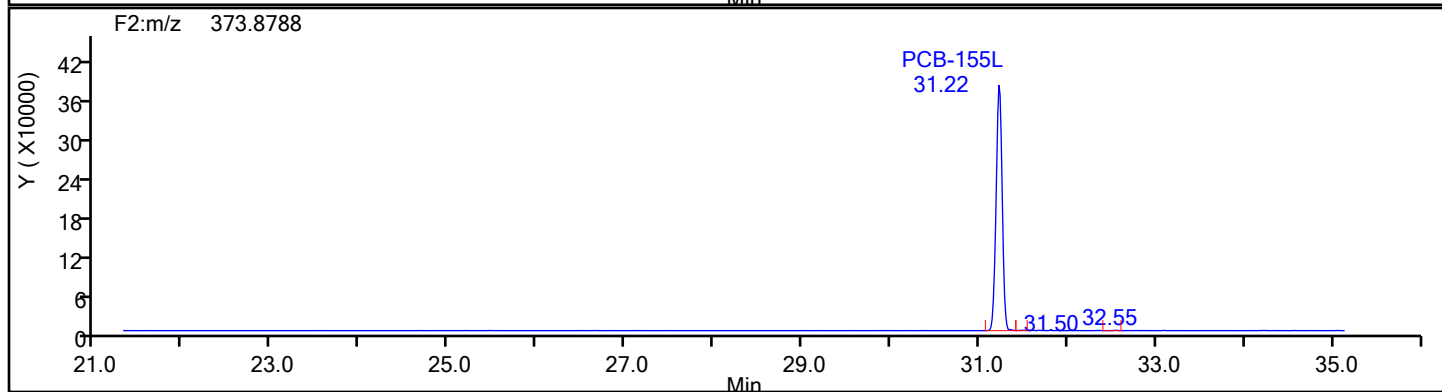
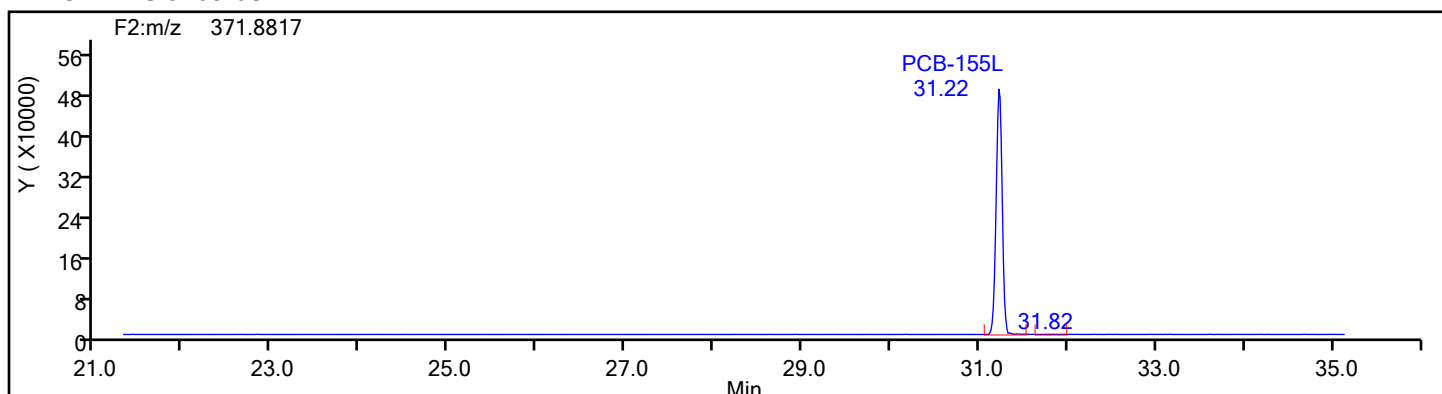
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d

Injection Date: 12-Jun-2024 07:39:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN FB COMBINED

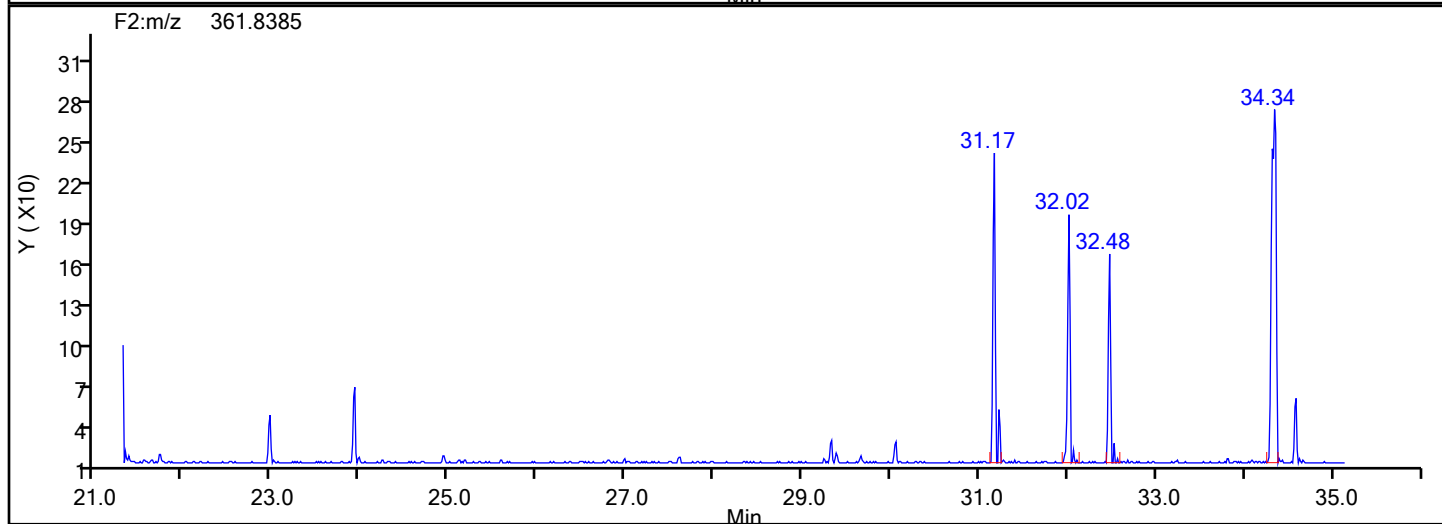
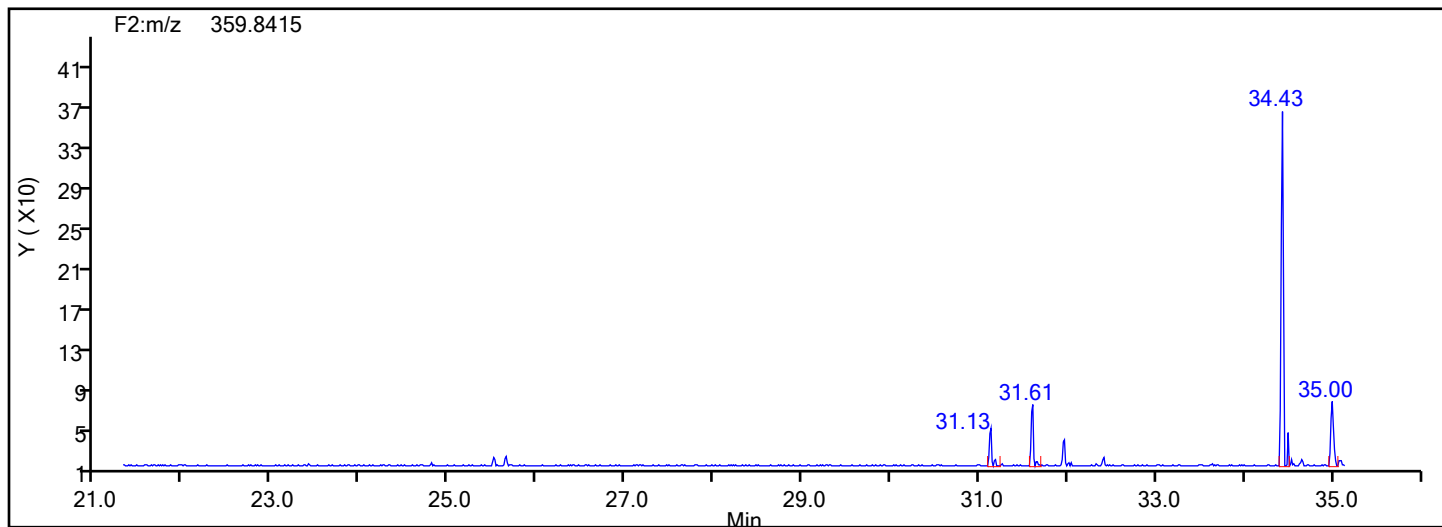
Worklist#: 87536

Sample Line#: 13

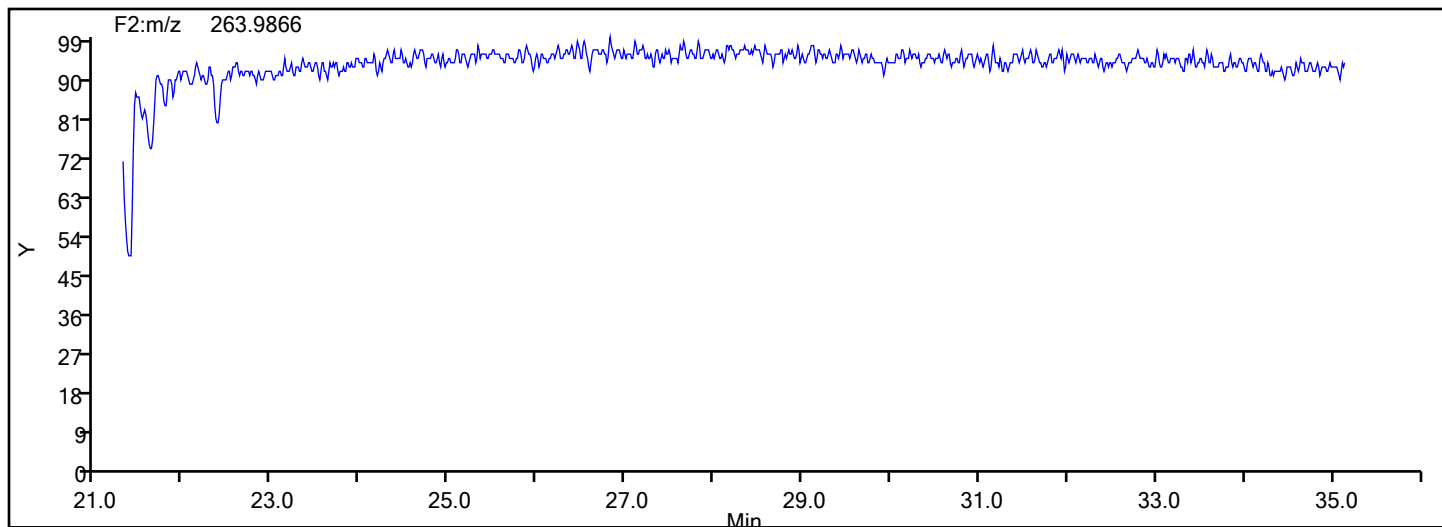
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d

Injection Date: 12-Jun-2024 07:39:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN FB COMBINED

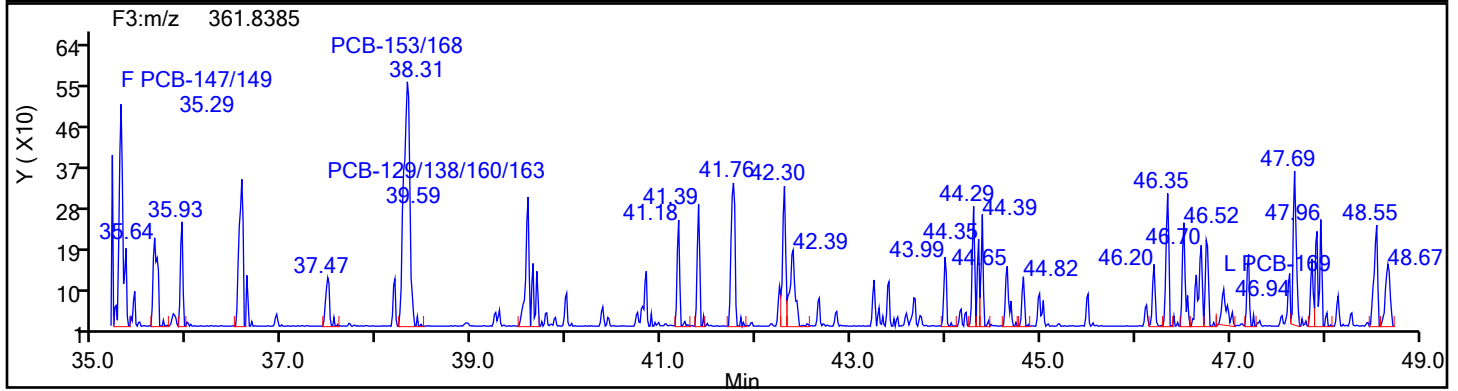
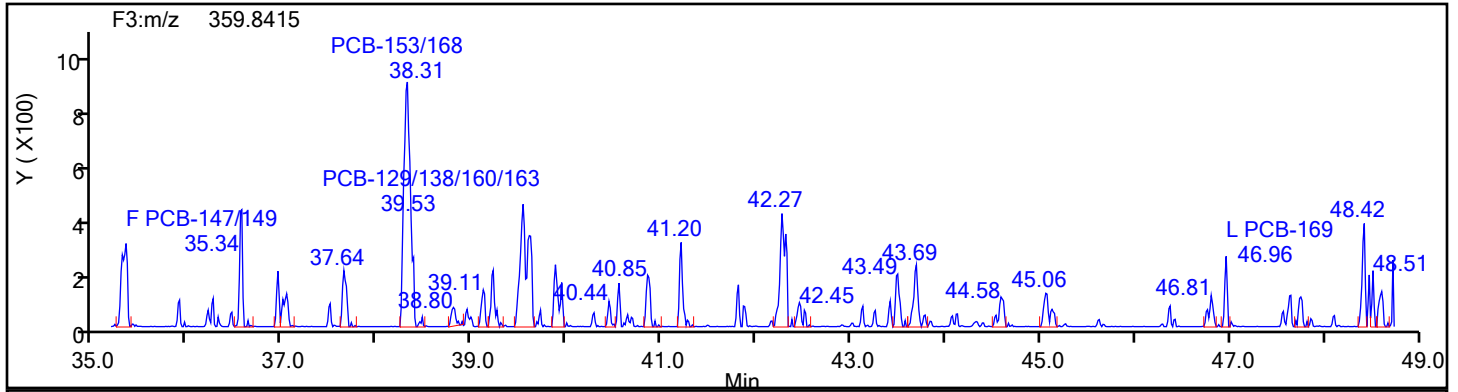
Worklist#: 87536

Sample Line#: 13

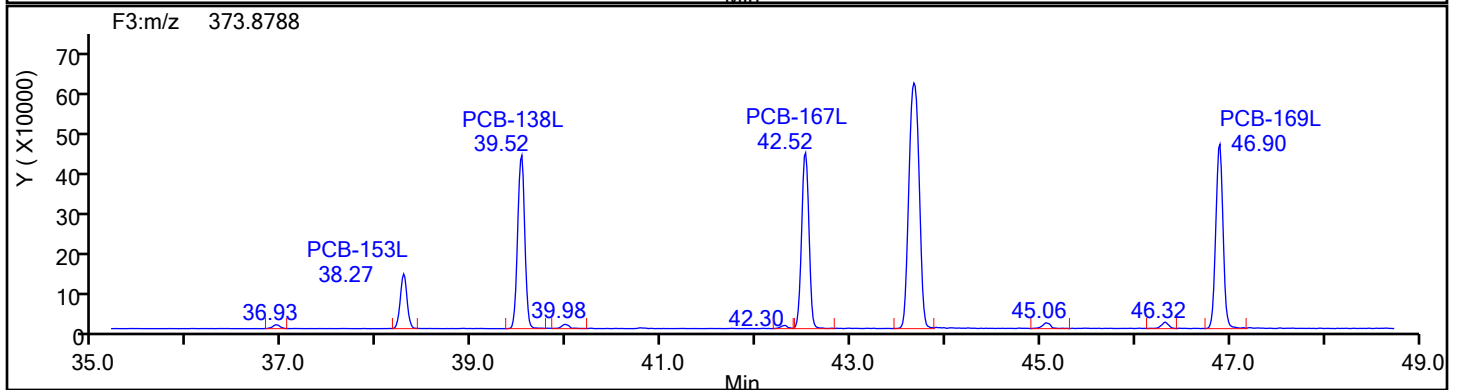
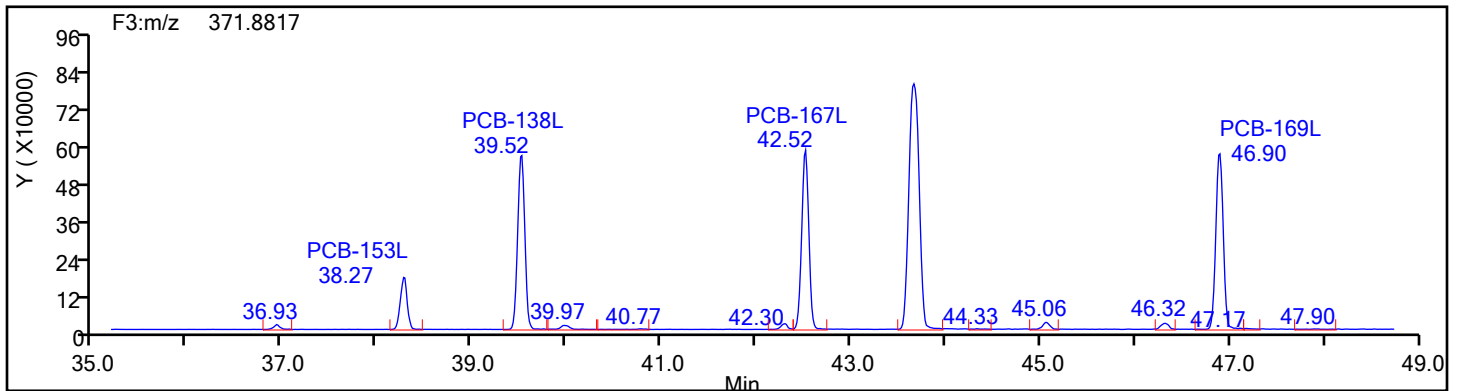
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

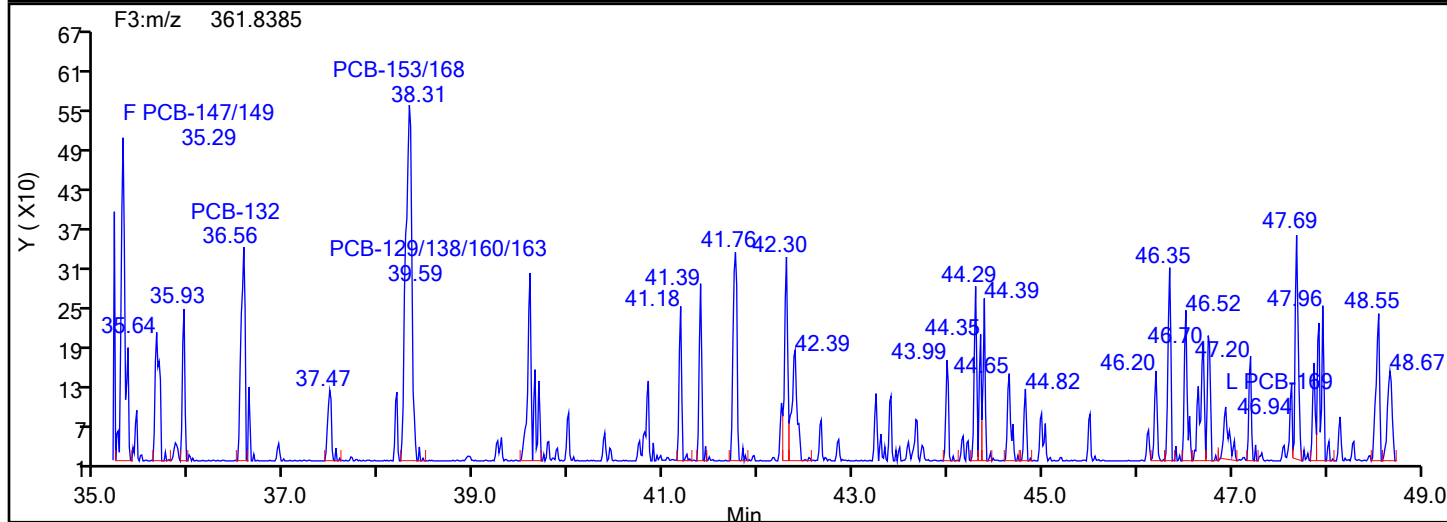
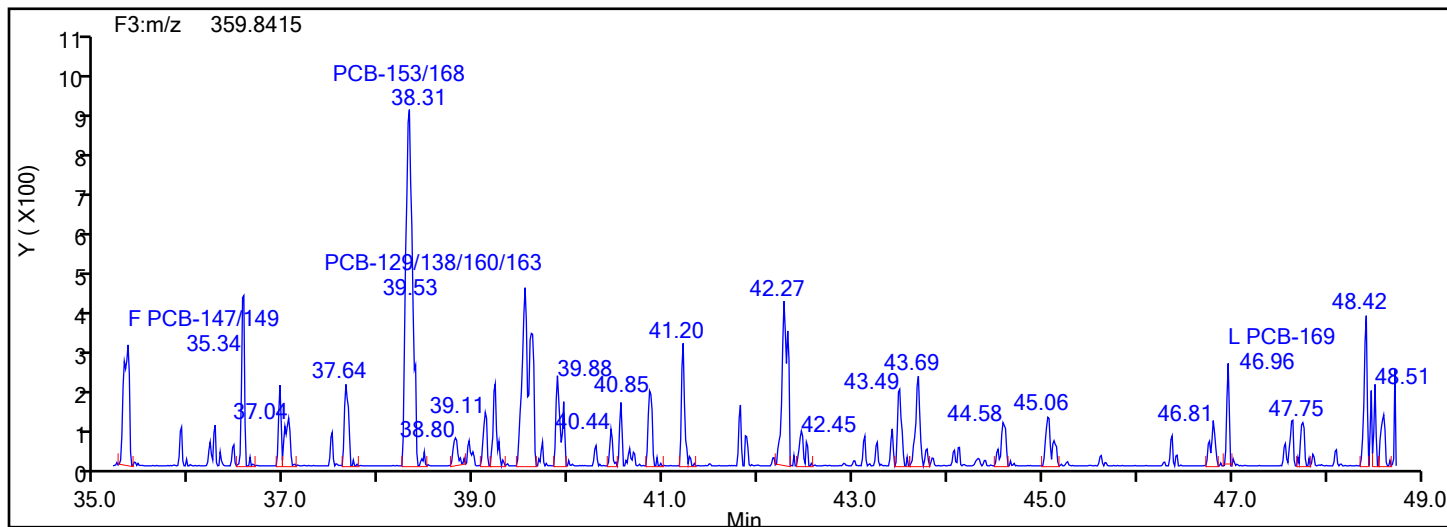
Limit Group: HR - EPA 23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN FB COMBINED

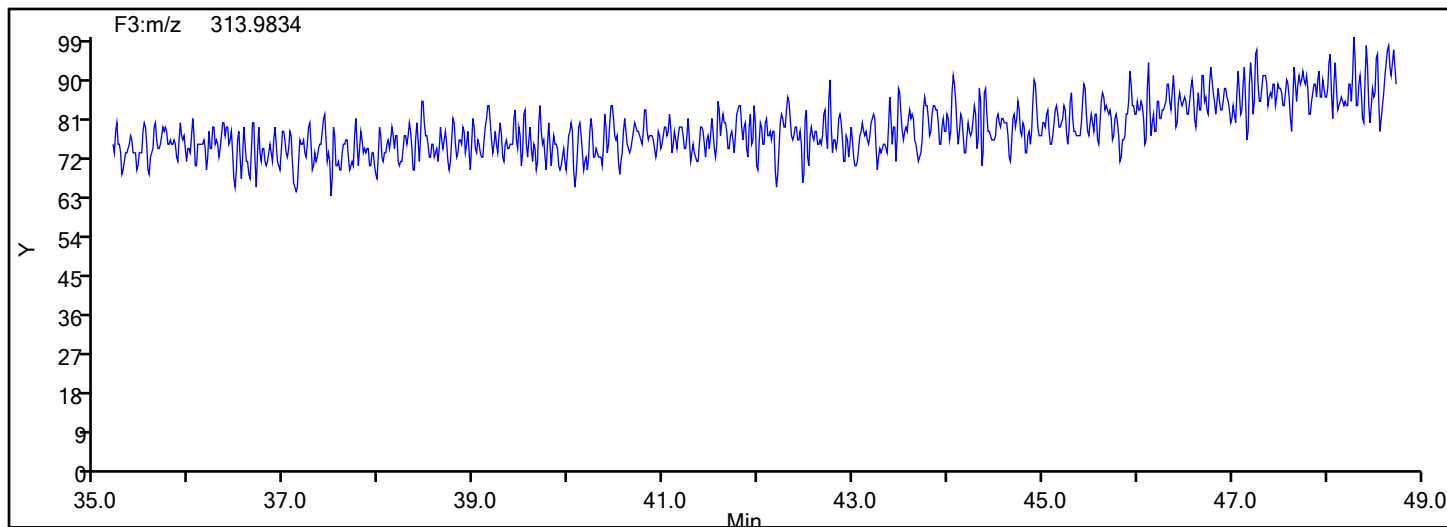
Sample Line#: 13

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

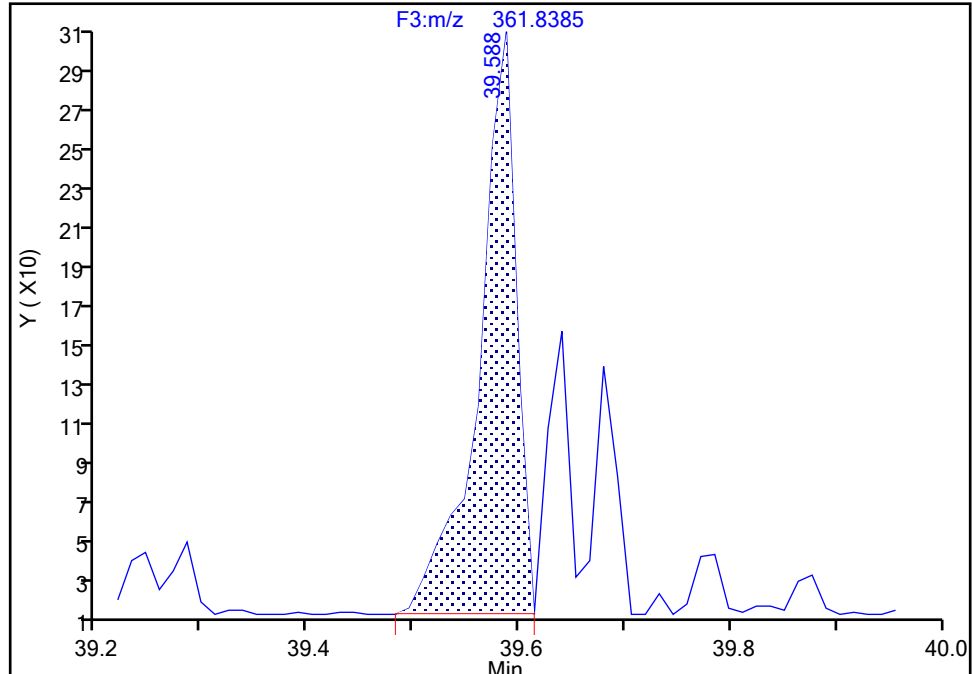
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Instrument ID: D2D
Lims ID: 140-36689-A-8-C Lab Sample ID: 140-36689-8
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

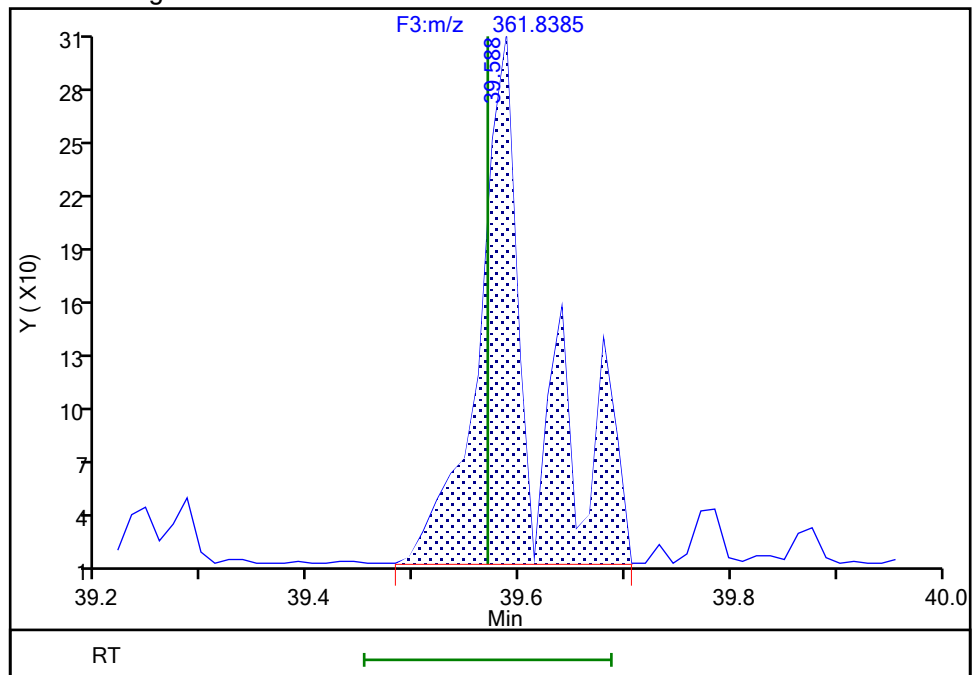
RT: 39.59
Area: 691
Amount: 0.064687
Amount Units: pg/ul

Processing Integration Results



RT: 39.59
Area: 1052
Amount: 0.071648
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 17:09:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d

Injection Date: 12-Jun-2024 07:39:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN FB COMBINED

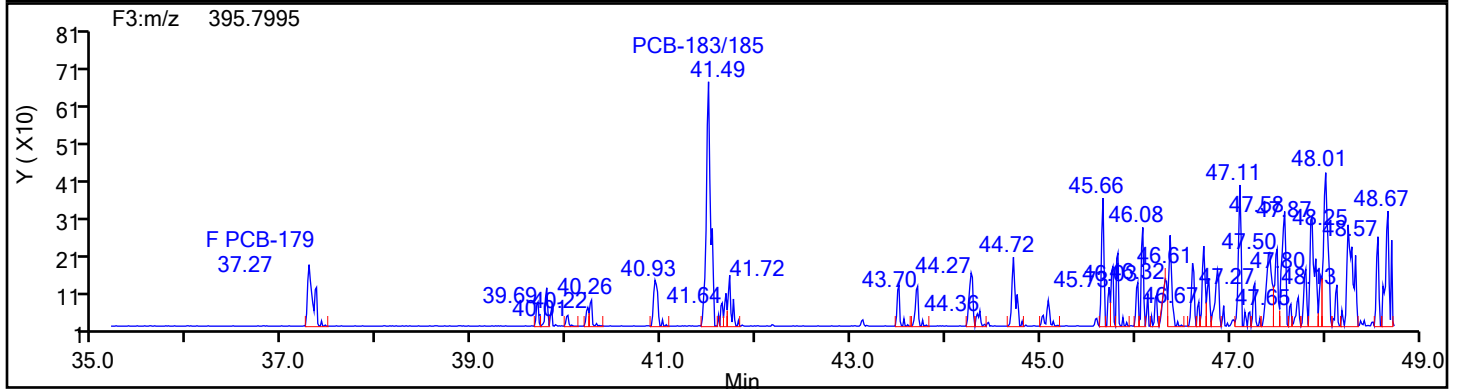
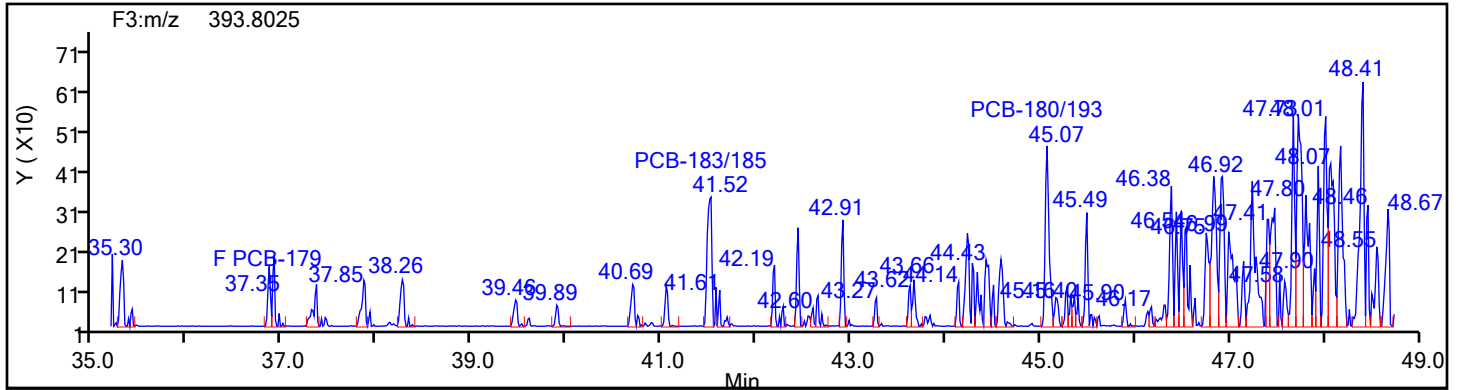
Worklist#: 87536

Sample Line#: 13

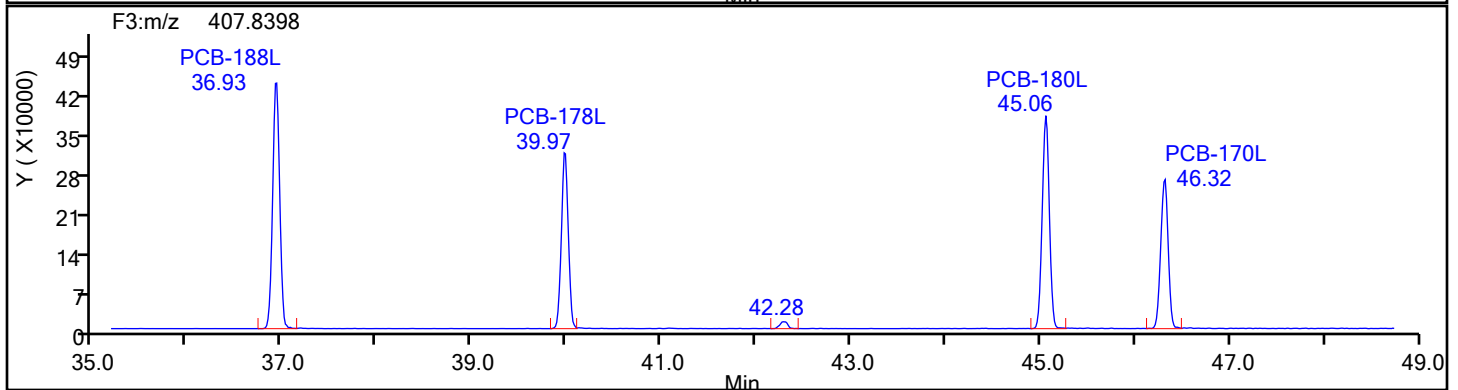
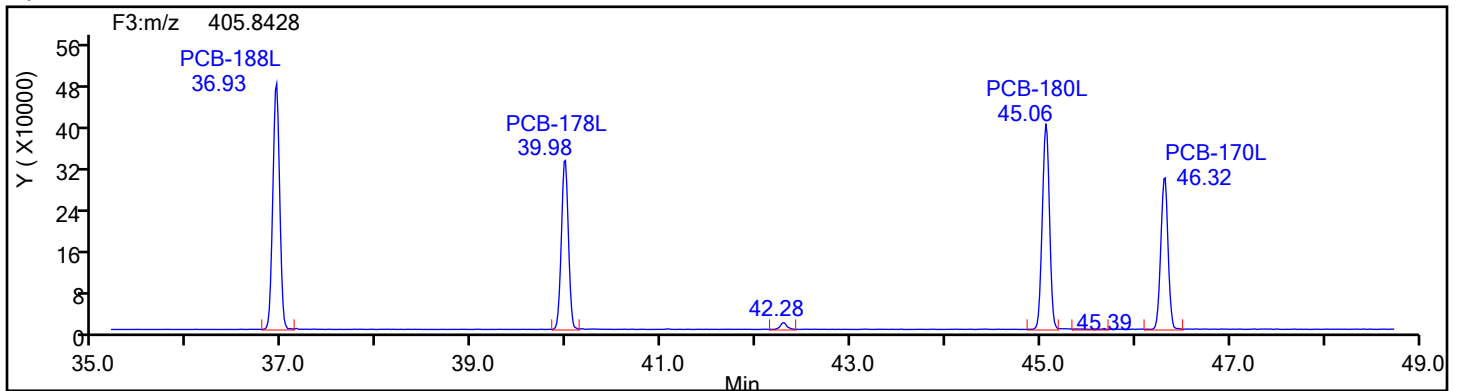
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3

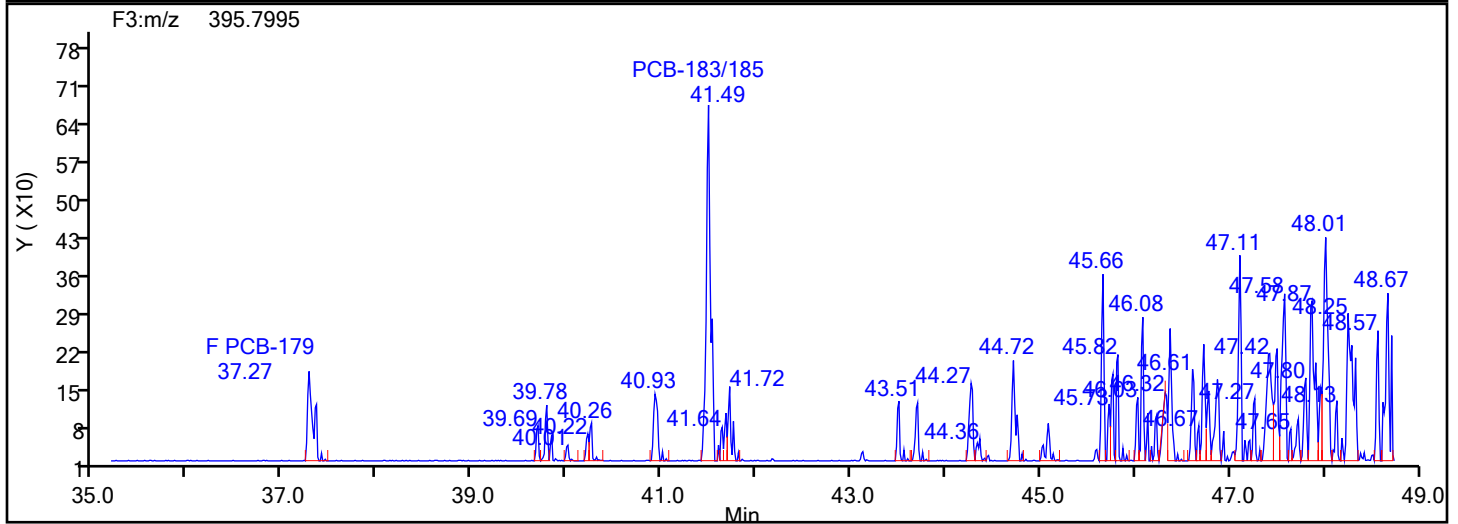
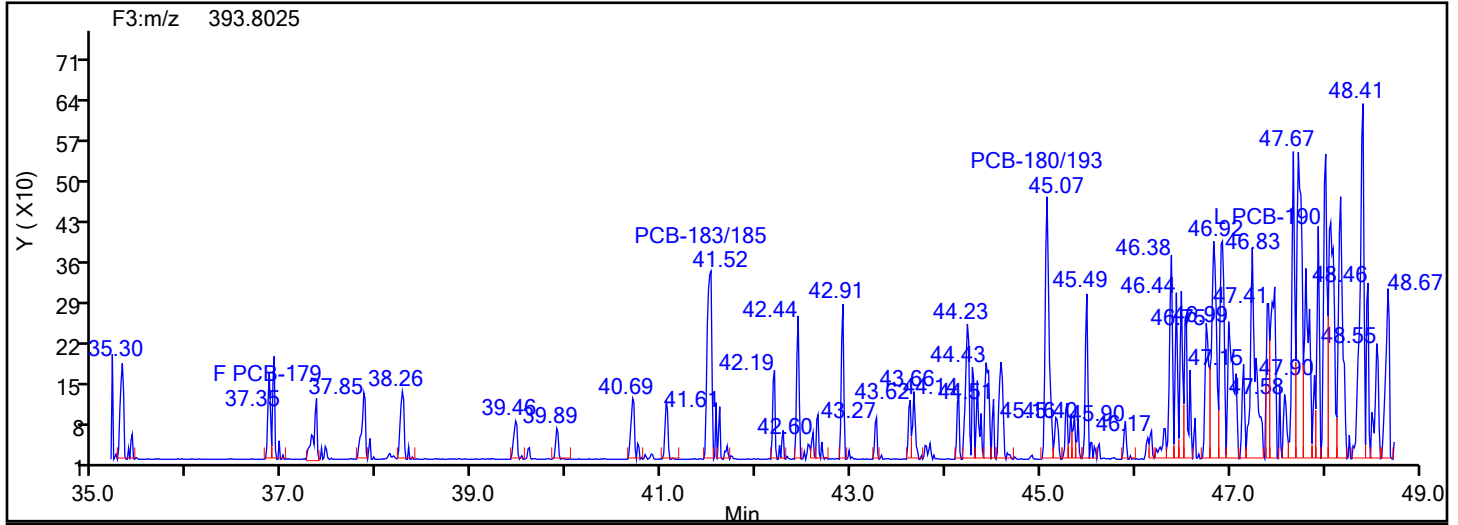


HpPCB F3 Standards

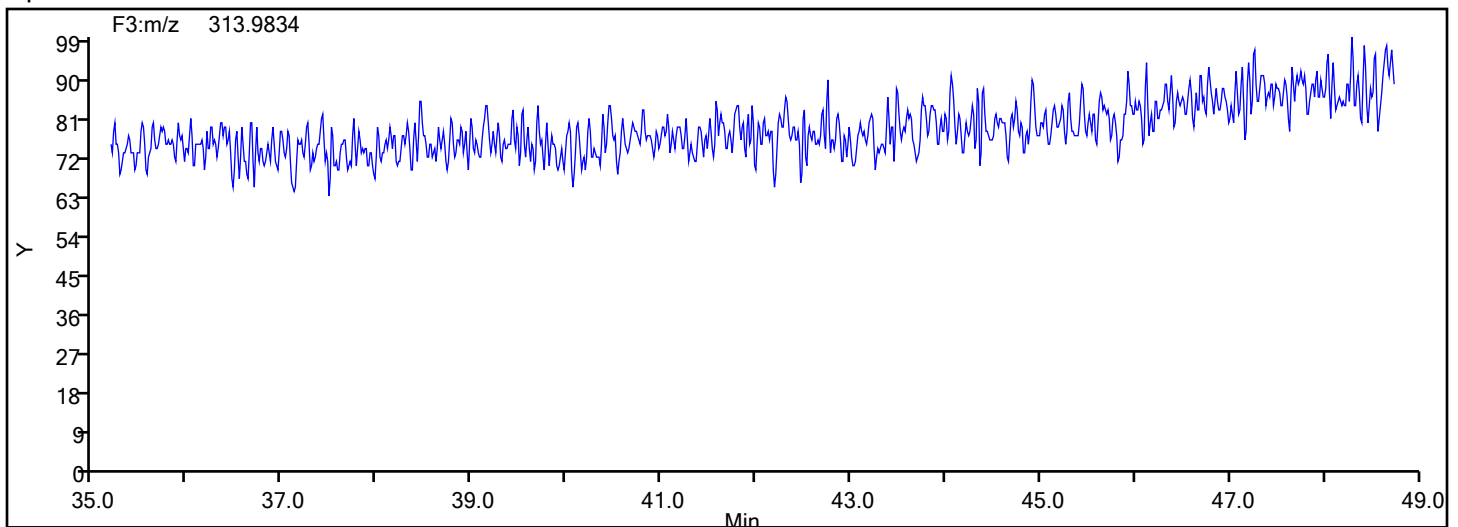


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d

Injection Date: 12-Jun-2024 07:39:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN FB COMBINED

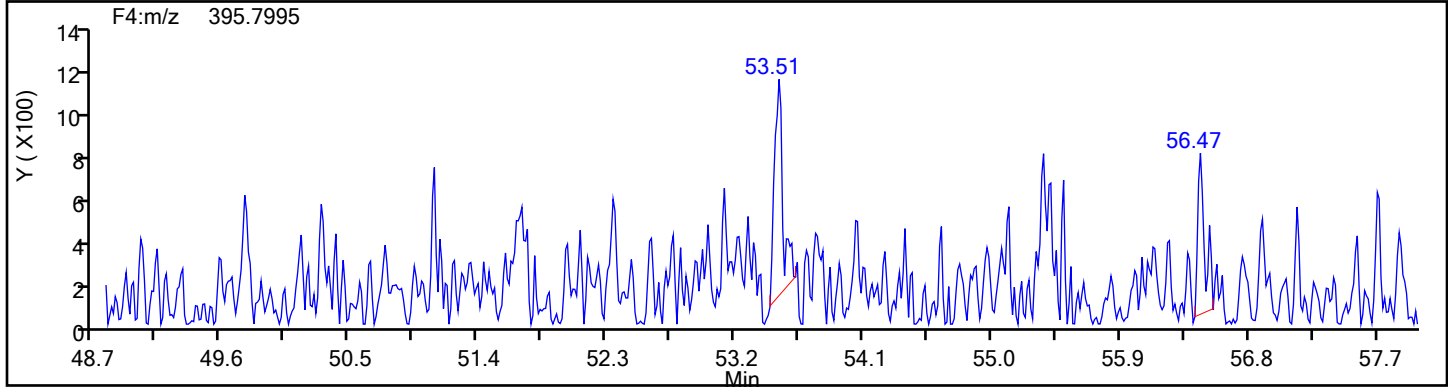
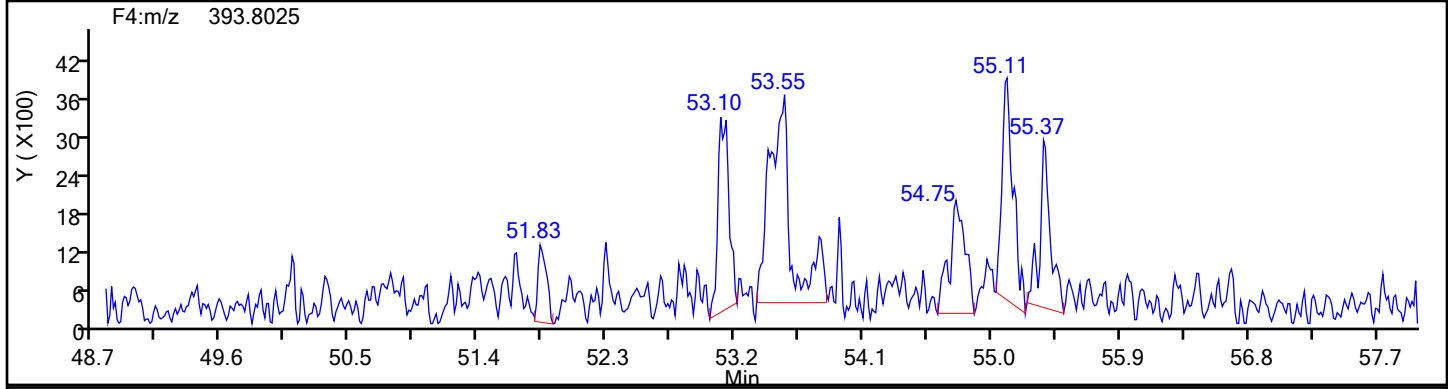
Worklist#: 87536

Sample Line#: 13

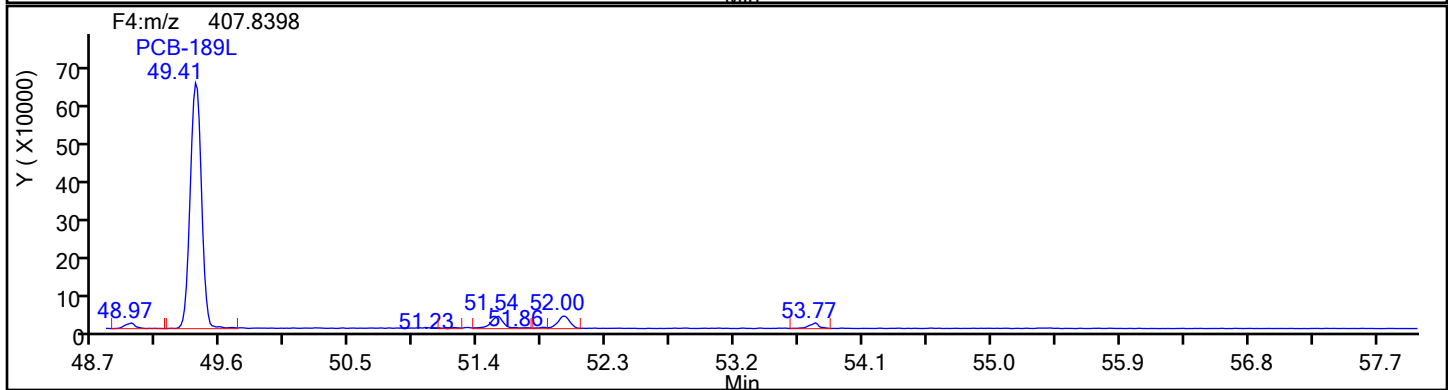
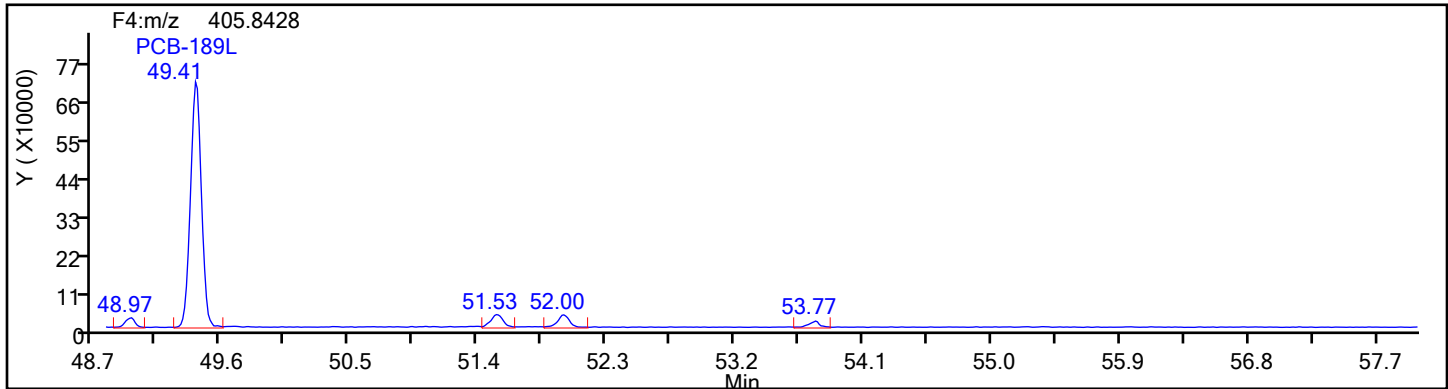
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4

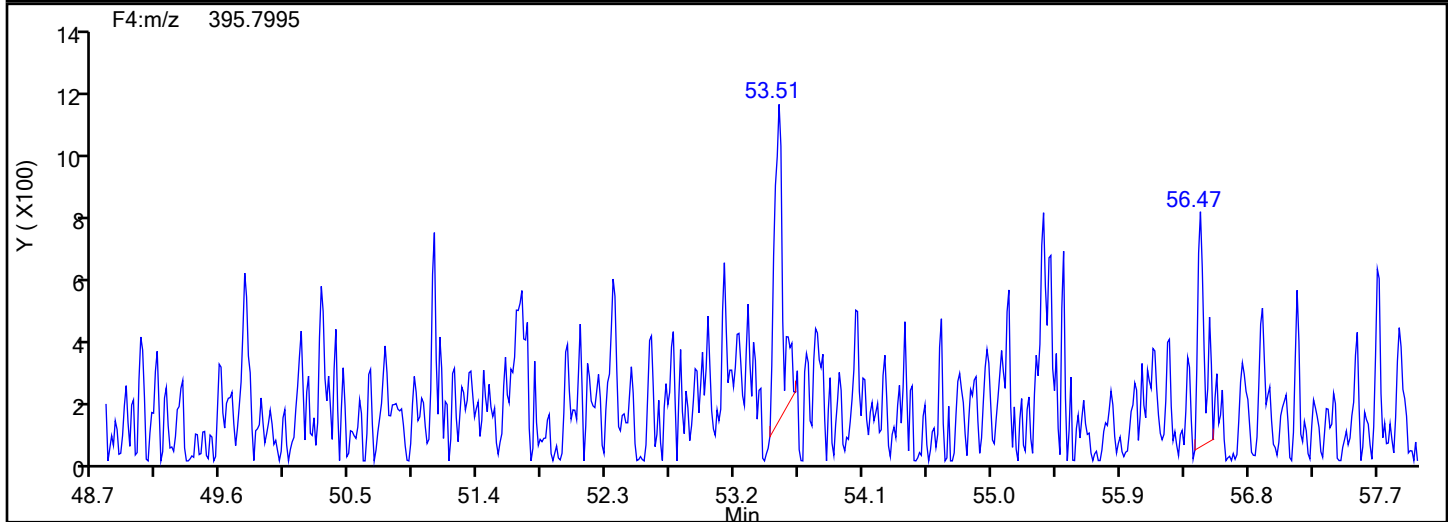
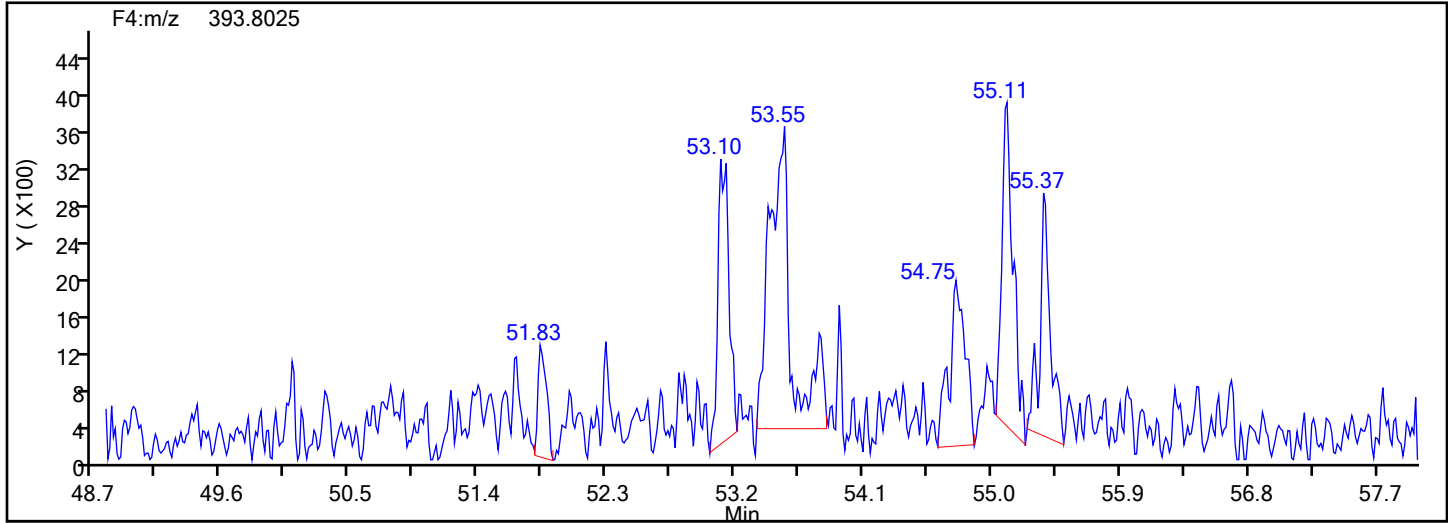


HpPCB F4 Standards

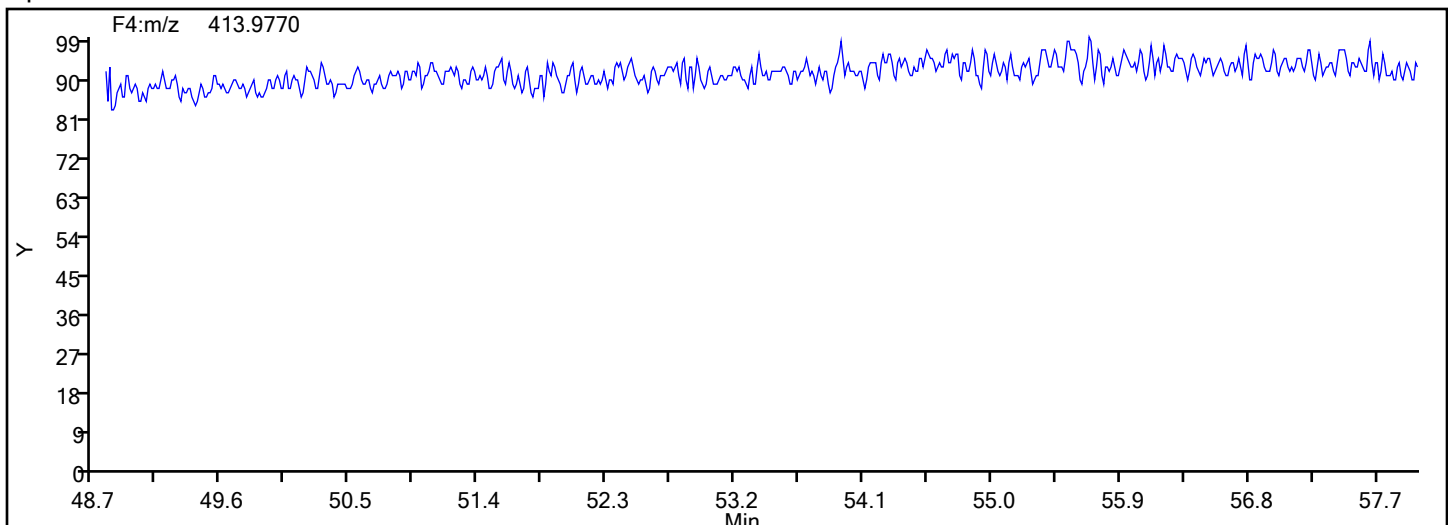


Eurofins Knoxville

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Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d

Injection Date: 12-Jun-2024 07:39:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23-NO.3 BOILER-RUN FB COMBINED

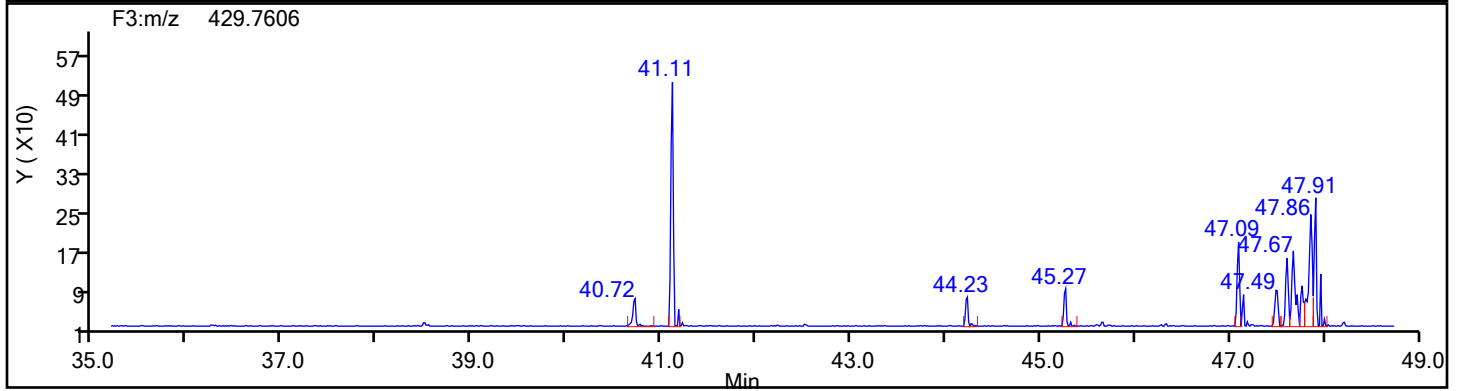
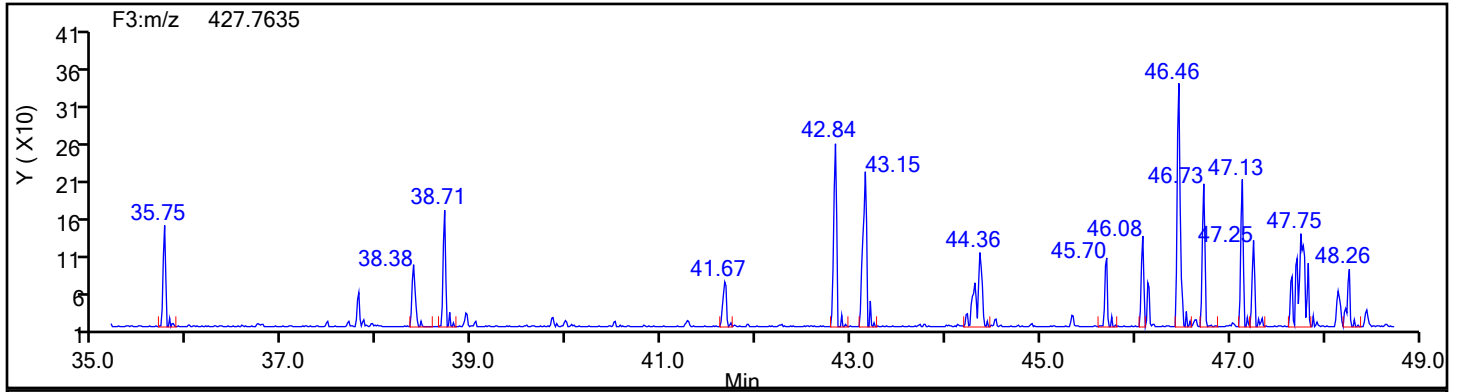
Worklist#: 87536

Sample Line#: 13

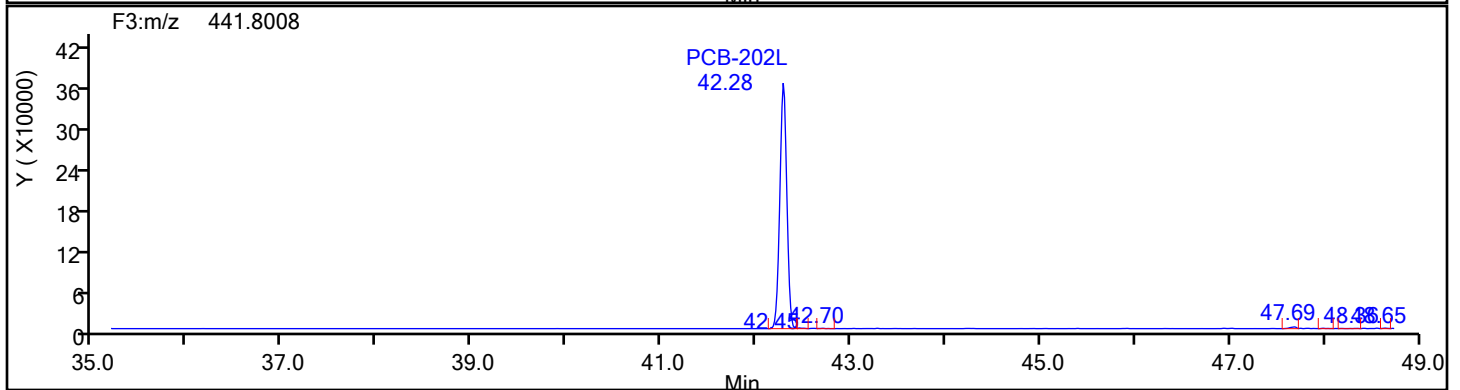
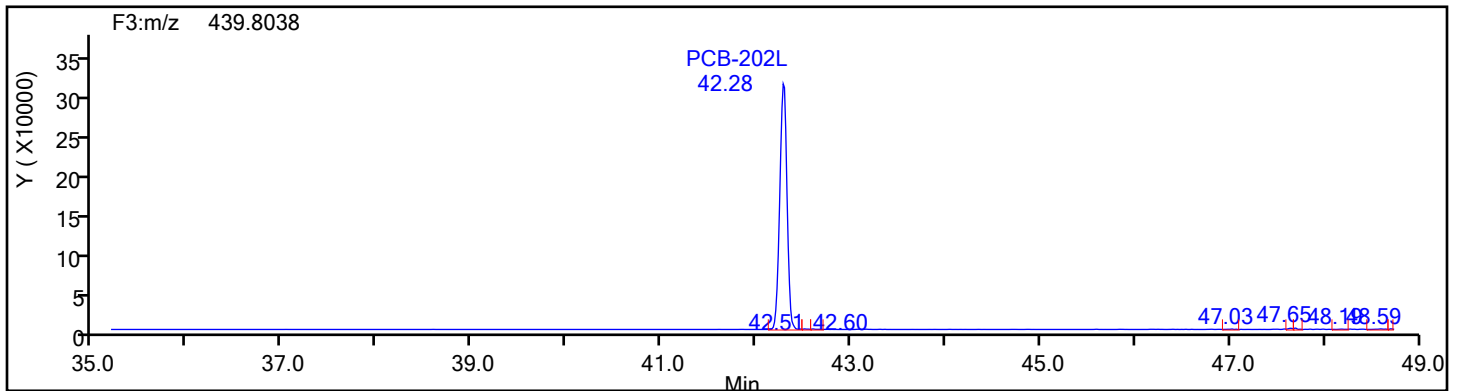
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

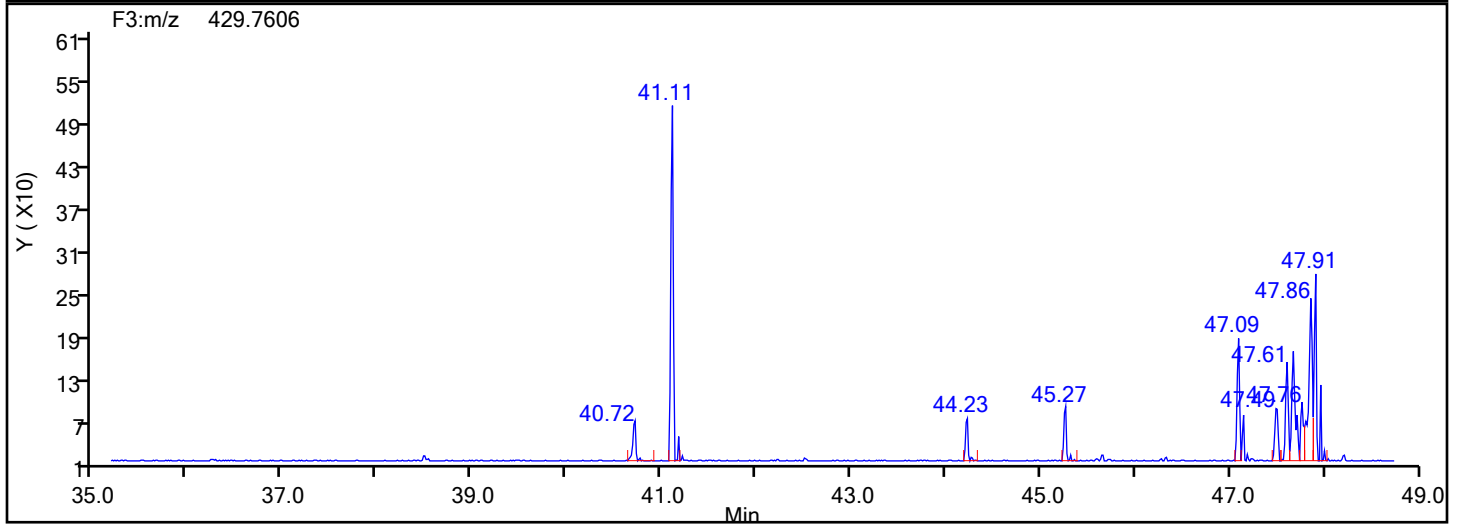
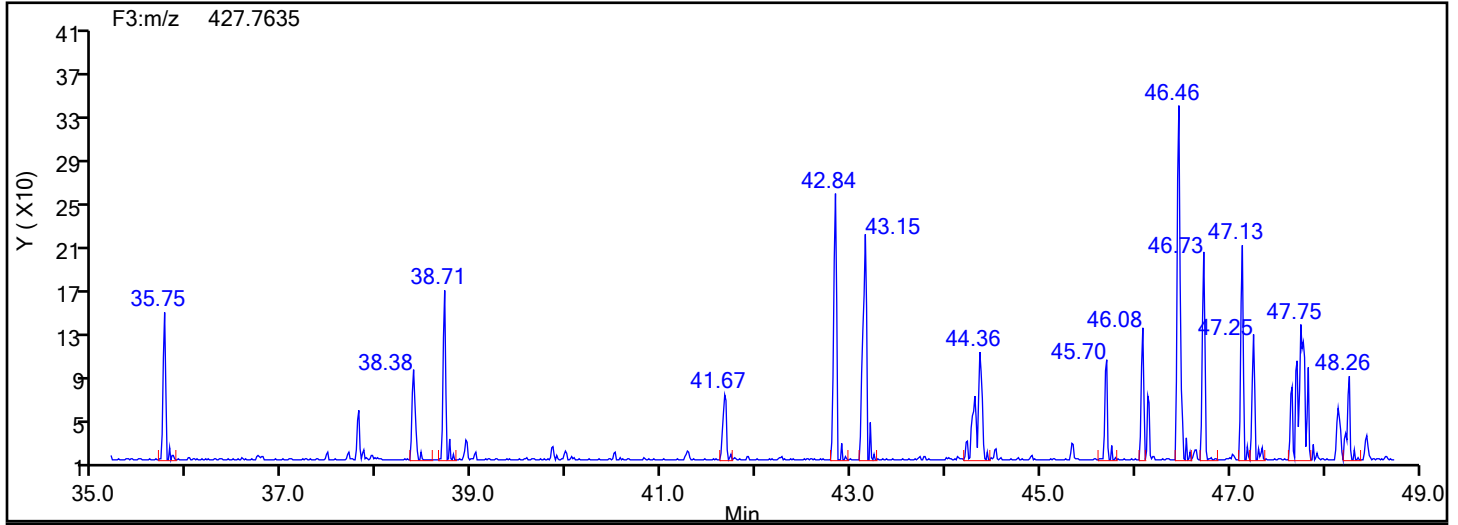


OcPCB F3 Standards

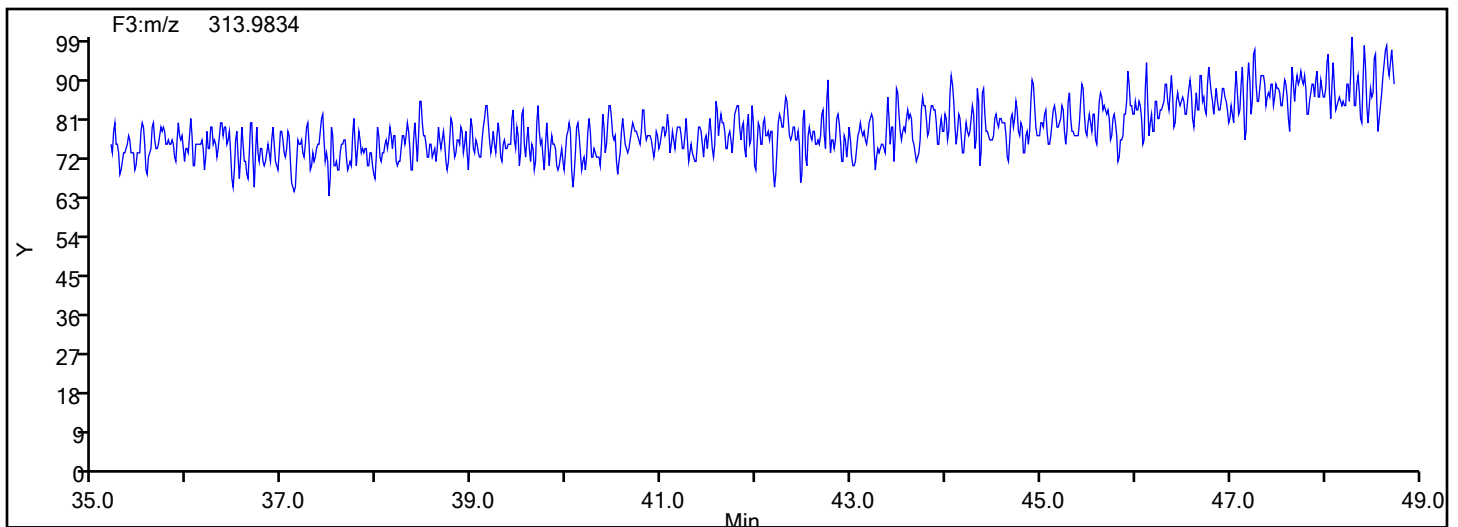


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

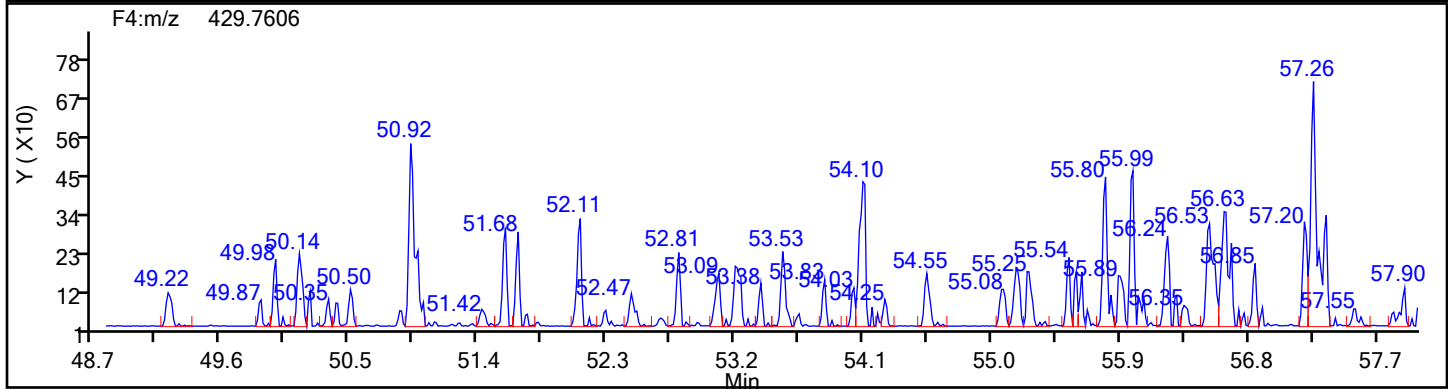
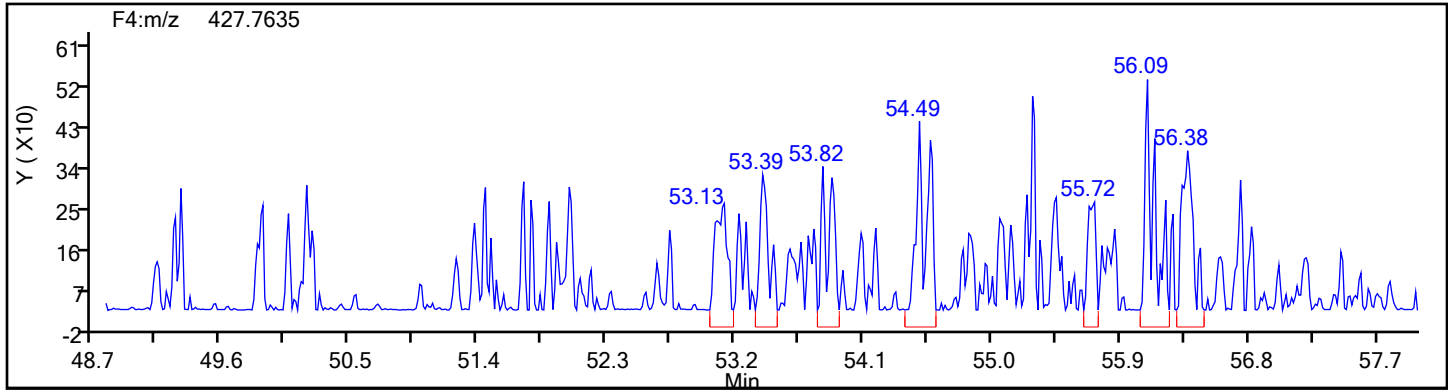


OcPCB F3 Lock Mass

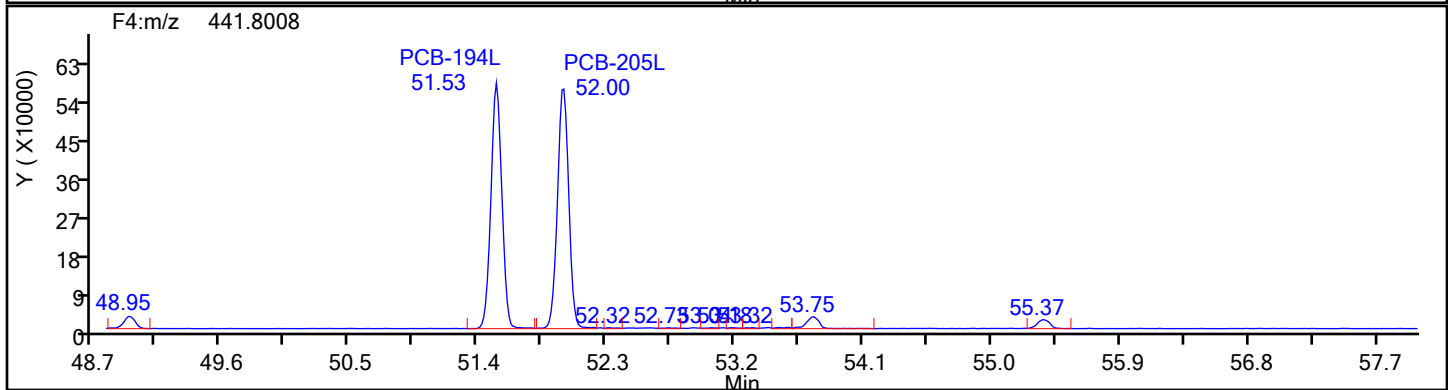
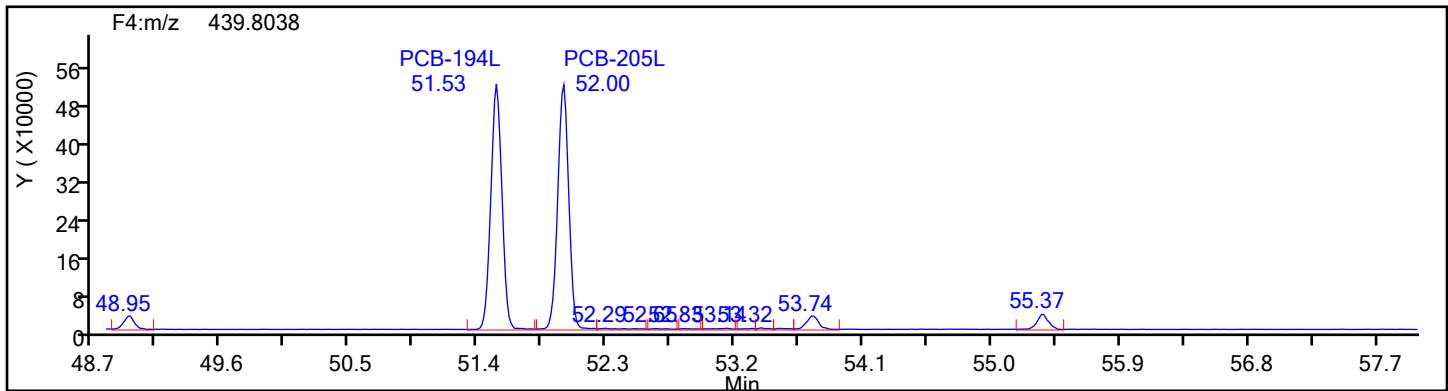


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

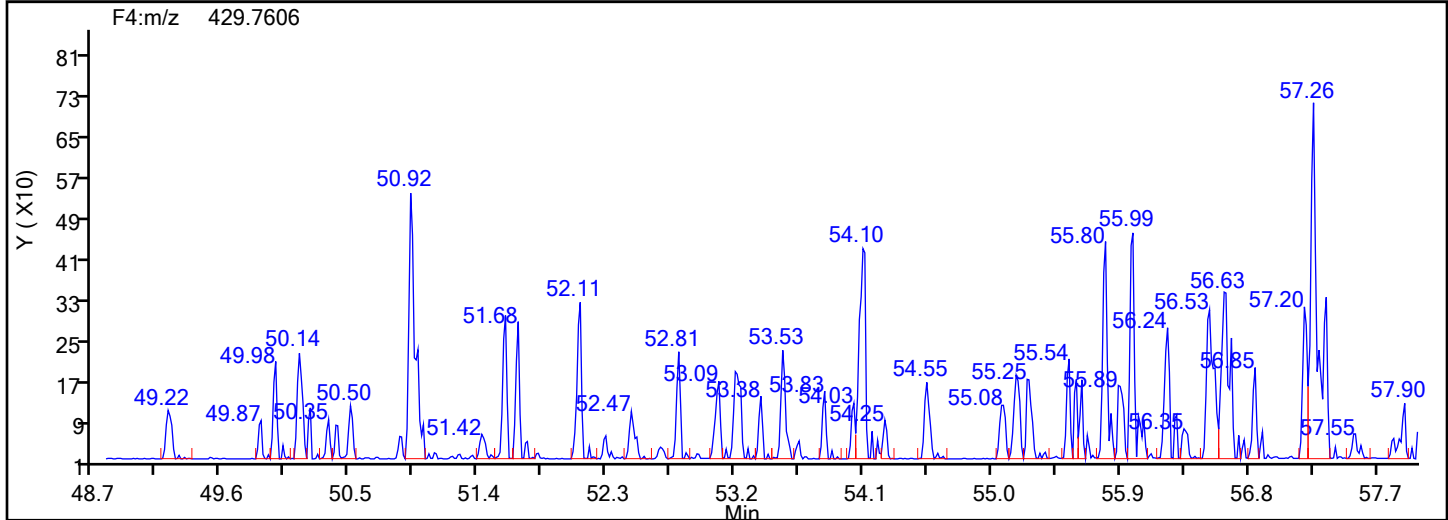
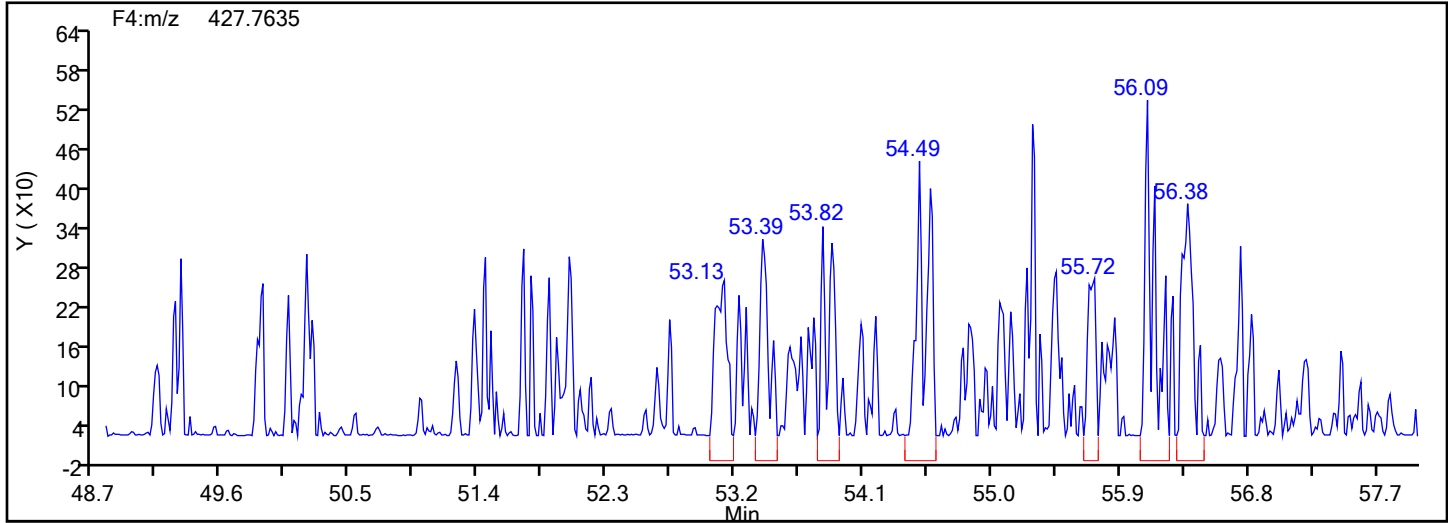


OcPCB F4 Standards

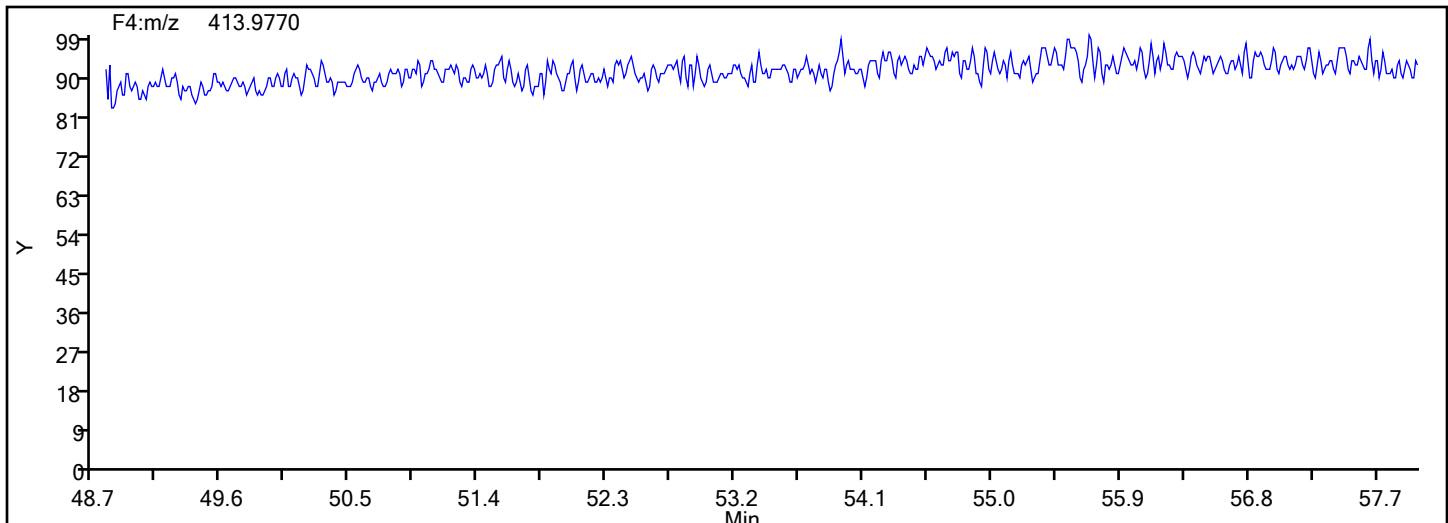


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

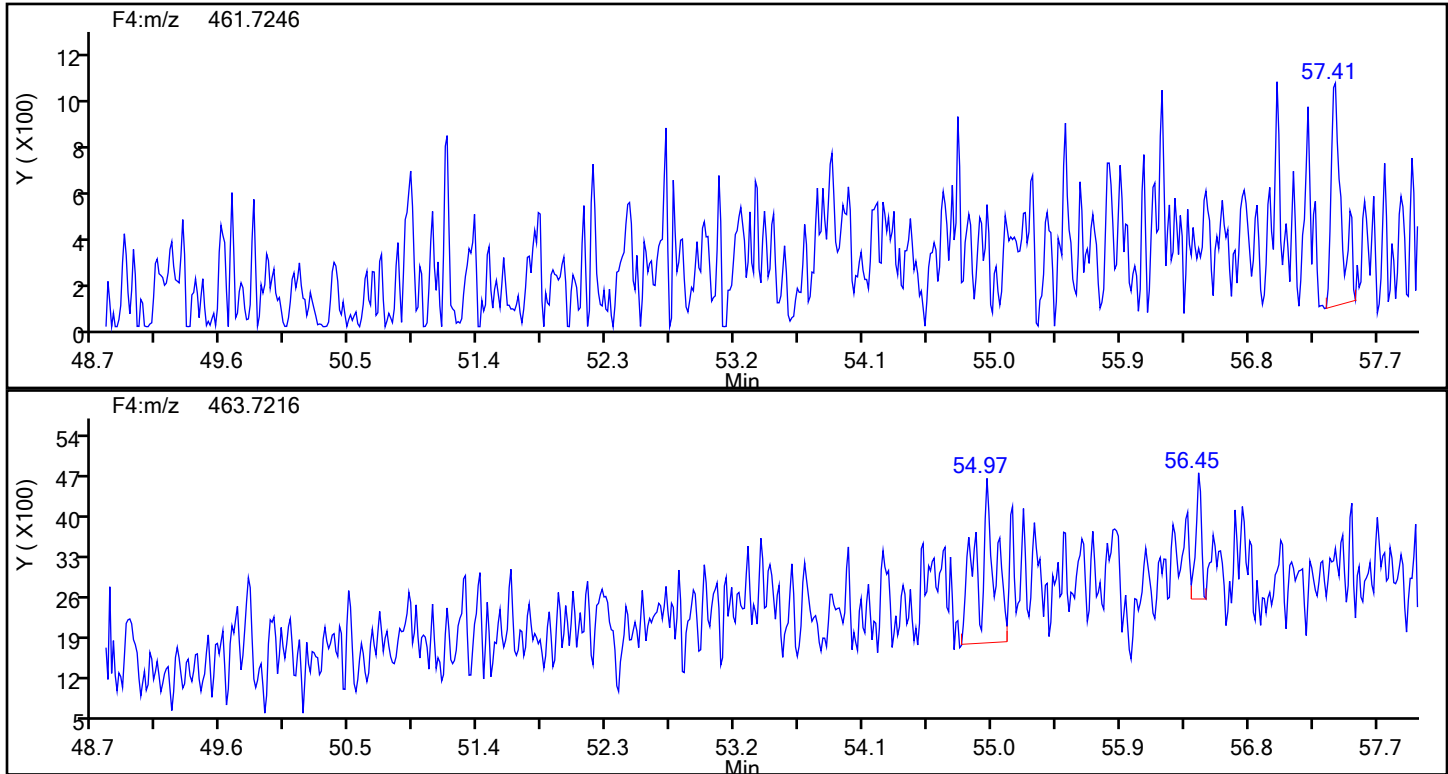


OcPCB F4 Lock Mass

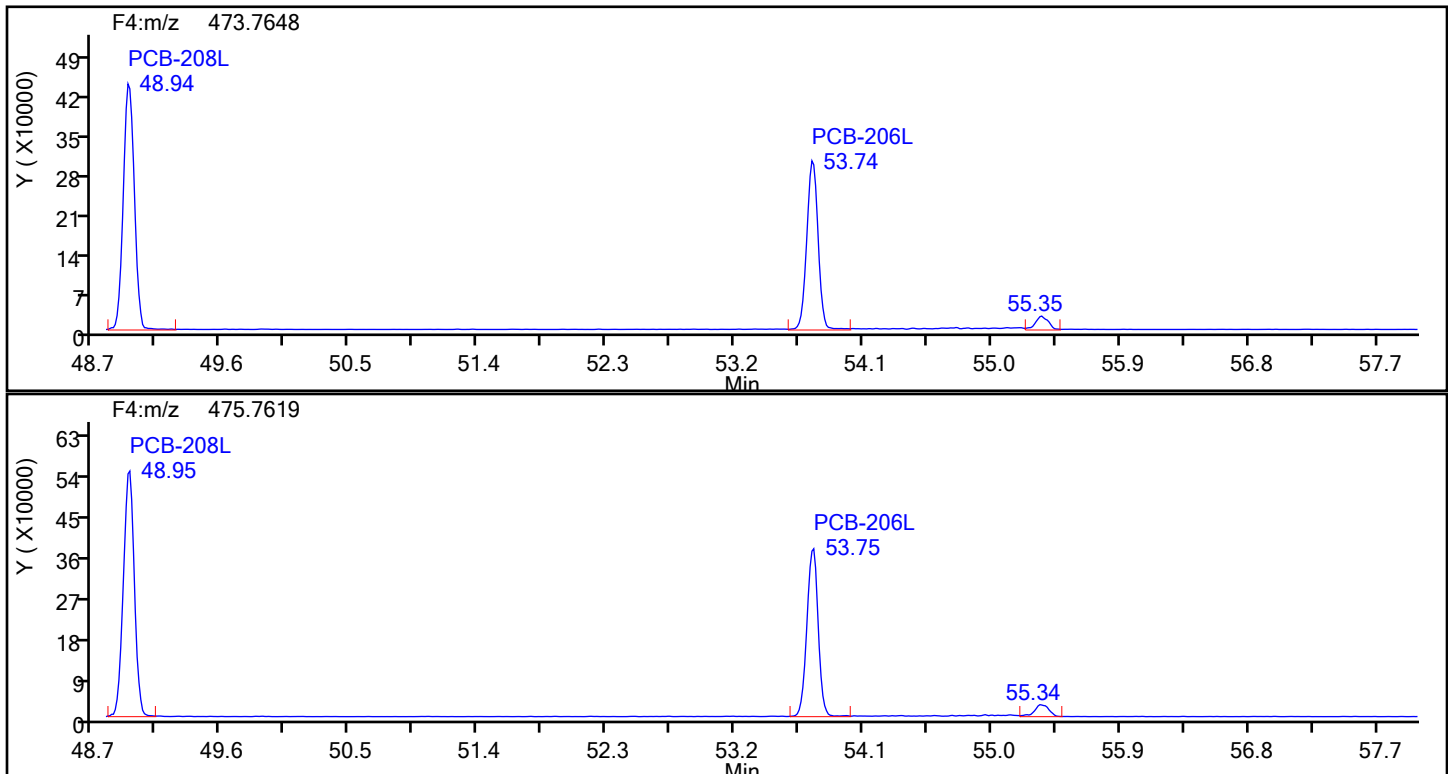


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

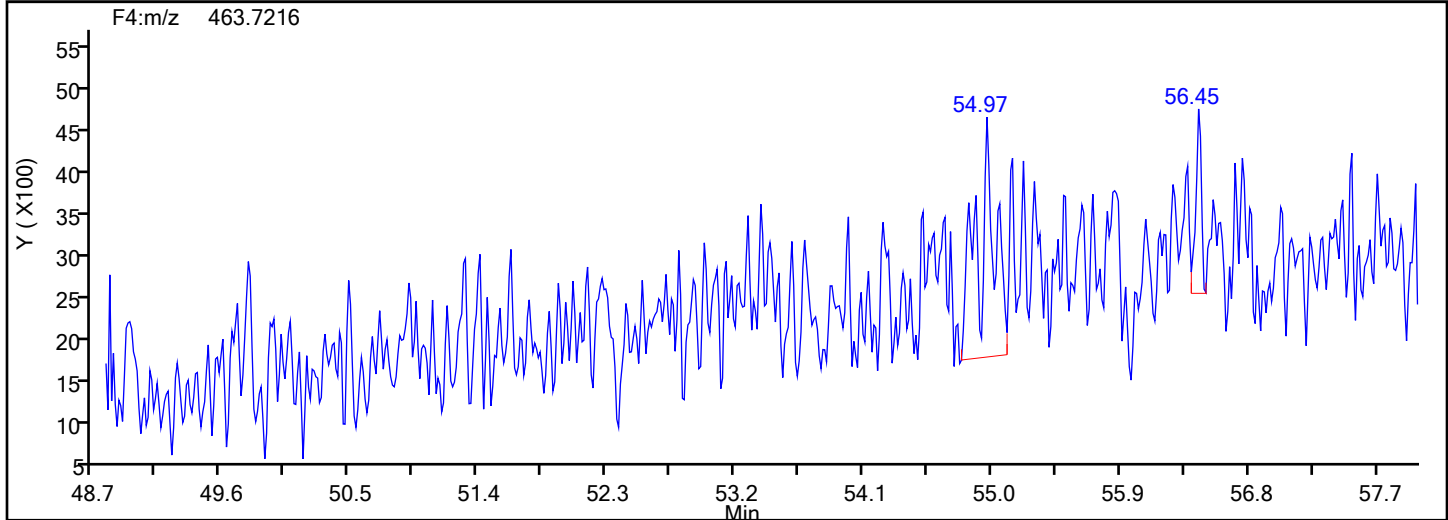
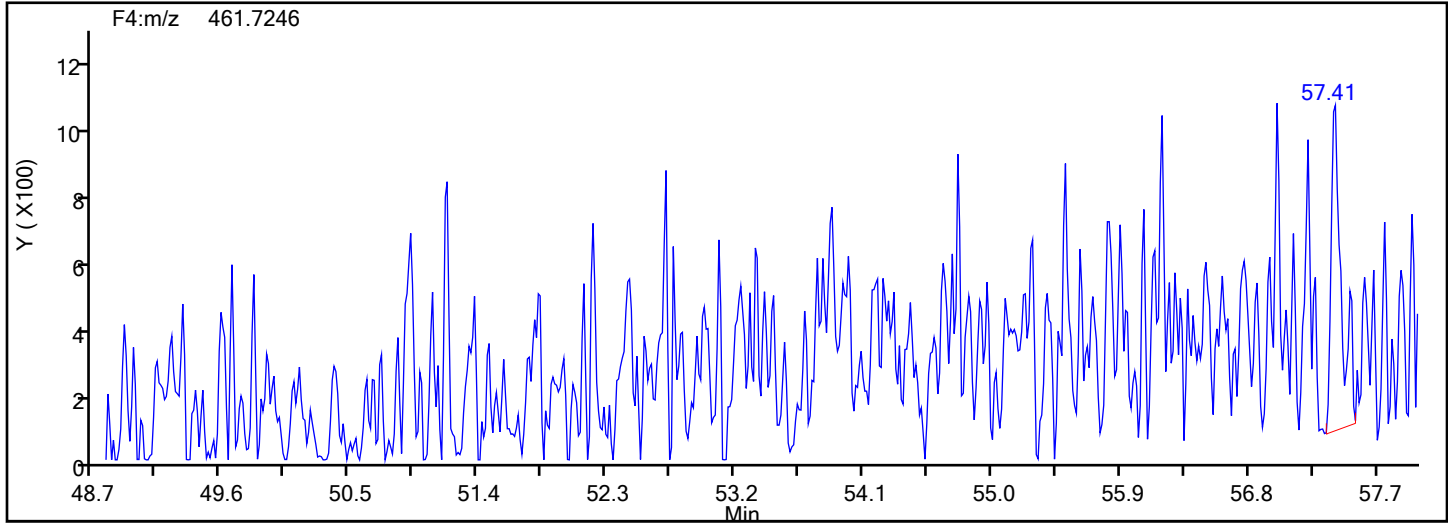


NoPCB F4 Standards

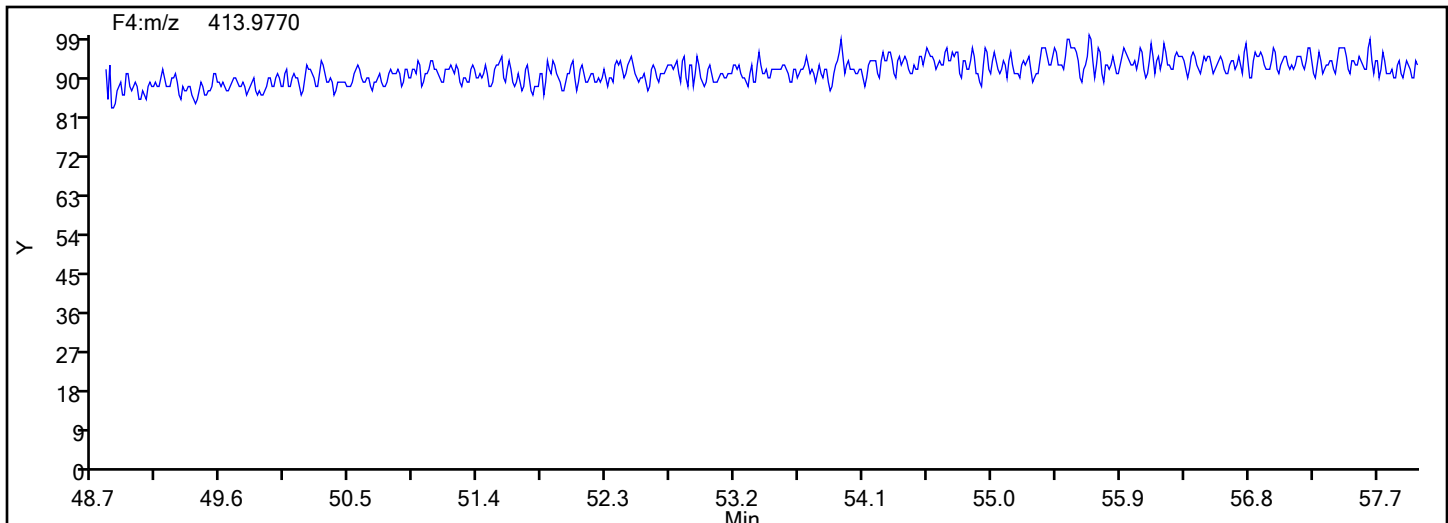


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

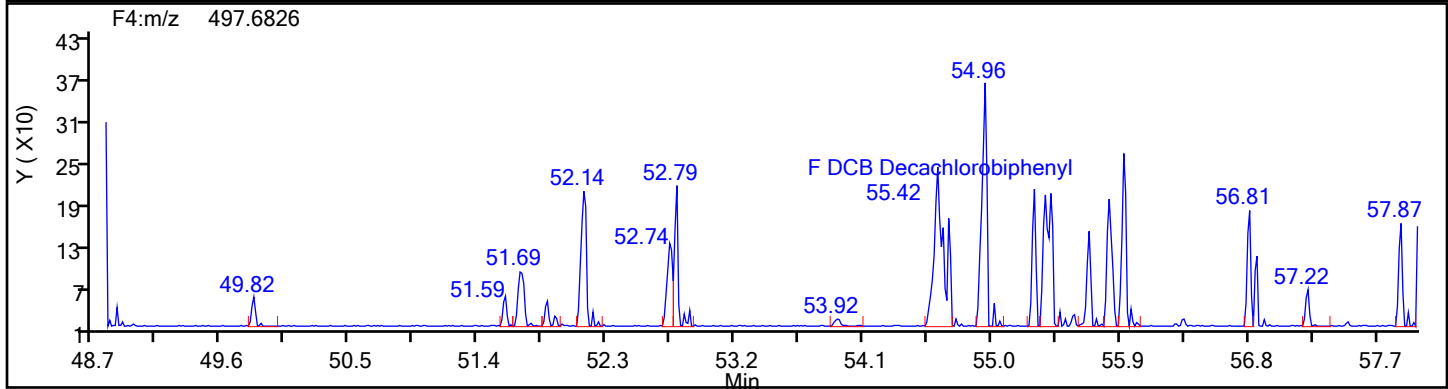
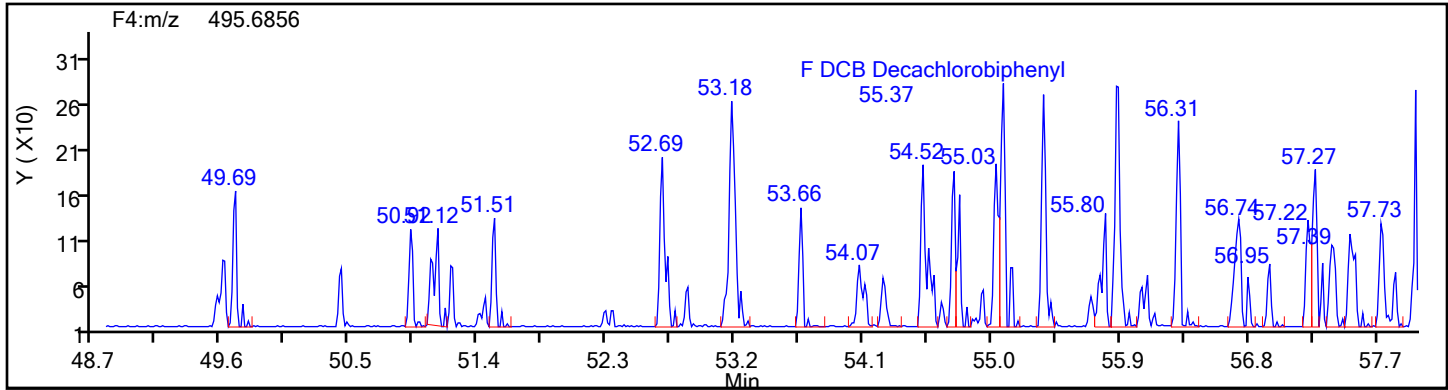


NoPCB F4 Lock Mass

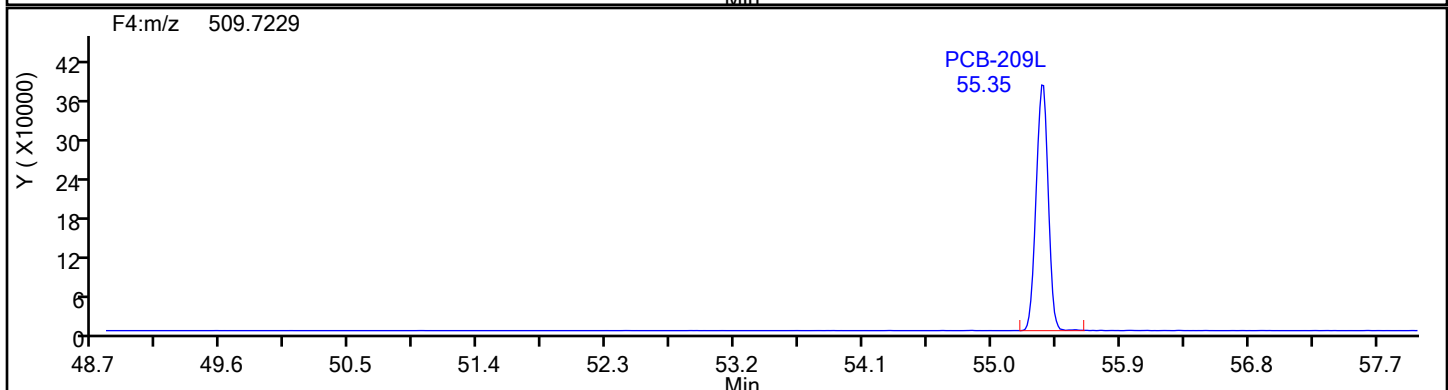
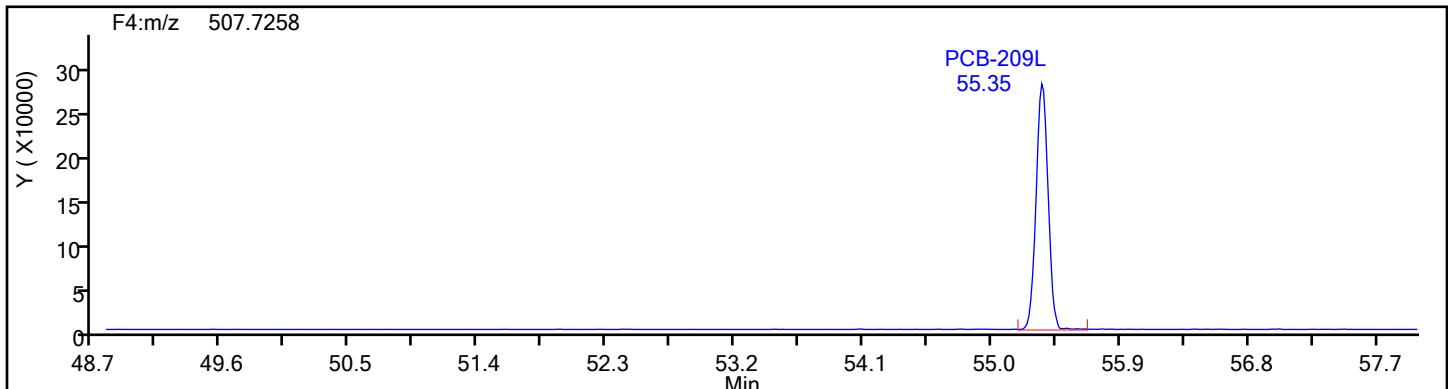


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

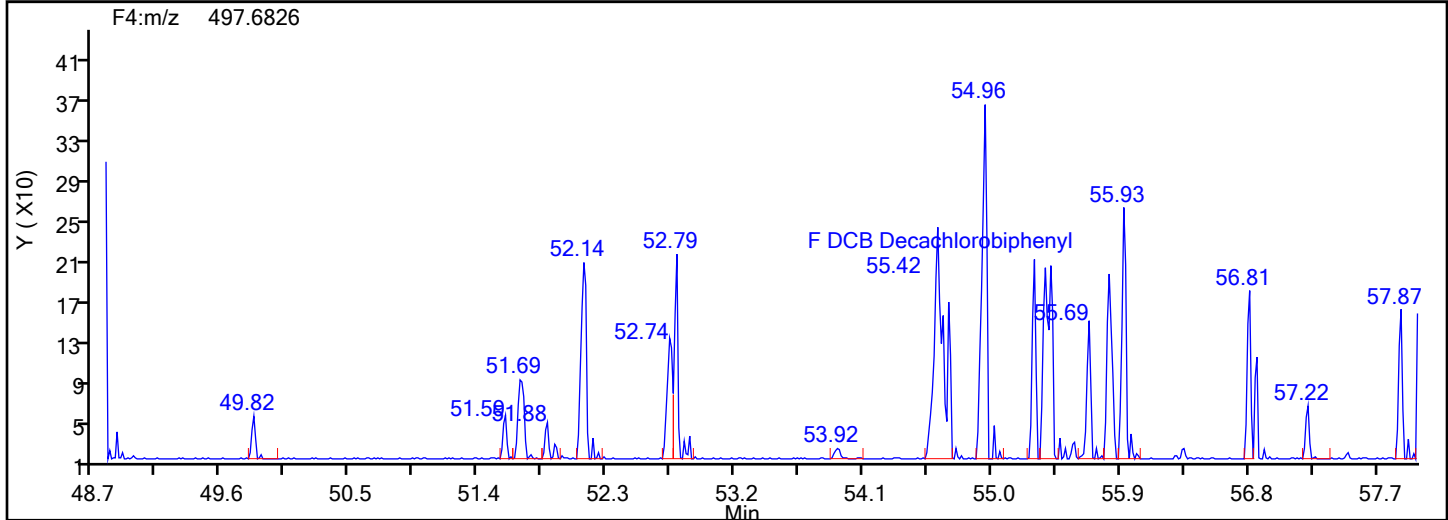
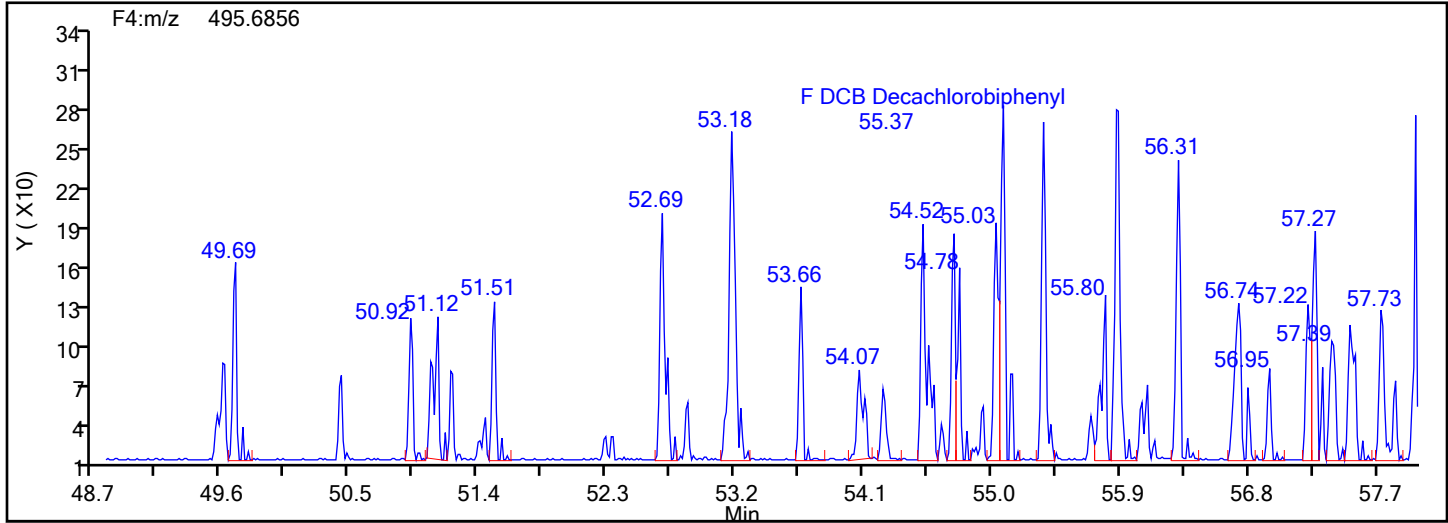


DePCB F4 Standards

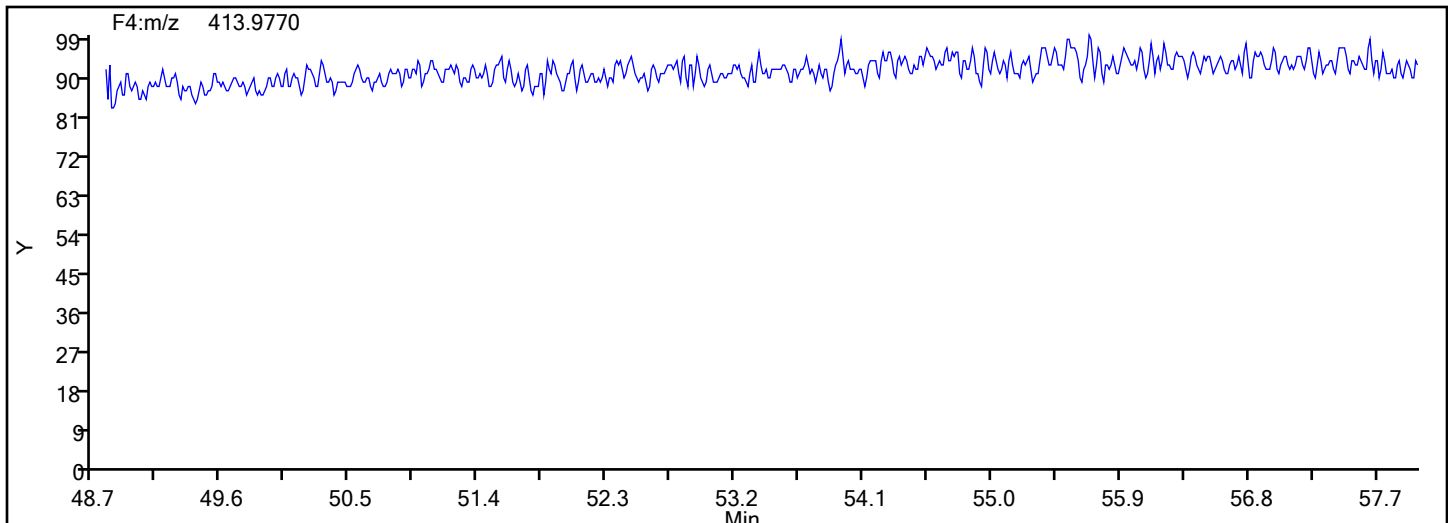


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Injection Date: 12-Jun-2024 07:39:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Worklist#: 87536 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\140-36689-a-8-c.d
Lims ID: 140-36689-A-8-C
Client ID: M23-NO.3 BOILER-RUN FB COMBINED
Sample Type: Client
Inject. Date: 12-Jun-2024 07:39:00 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033034-013
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 17:14:01 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1667

First Level Reviewer: P0IK

Date: 12-Jun-2024 17:14:01

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	29.0	87.12
PCB-28L	100.0	68.9	68.88
PCB-79L	33.3	33.2	99.74
PCB-95L	33.3	34.8	104.47
PCB-111L	100.0	76.6	76.61
PCB-153L	33.3	30.7	91.96
PCB-178L	100.0	77.6	77.64

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 MEDIA CHECK A-2171</u> <u>FILTER, A-2170 XAD</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-14-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/07/2024 00:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/12/2024 14:09</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87571</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.0112	J q	0.600	0.132	0.00398
37680-65-2	PCB-18	0.00759	J C B	0.600	0.285	0.00238
7012-37-5	PCB-28	0.0138	J q C20 B	0.600	0.252	0.00529
41464-39-5	PCB-44	ND	C	0.900	0.390	0.0155
35693-99-3	PCB-52	ND		0.300	0.132	0.0165
32598-10-0	PCB-66	ND		0.300	0.120	0.0120
32598-13-3	PCB-77	ND		0.300	0.126	0.0138
70362-50-4	PCB-81	ND		0.300	0.0960	0.0142
37680-73-2	PCB-101	ND	C90	0.900	0.390	0.00231
32598-14-4	PCB-105	ND		0.300	0.102	0.00983
74472-37-0	PCB-114	ND		0.300	0.165	0.0107
31508-00-6	PCB-118	ND		0.300	0.183	0.00921
65510-44-3	PCB-123	ND		0.300	0.171	0.0108
57465-28-8	PCB-126	0.0244	J q	0.300	0.123	0.0108
38380-07-3	PCB-128	ND	C	0.600	0.204	0.00242
35065-28-2	PCB-138	0.0173	J C129	1.20	0.510	0.00252
35065-27-1	PCB-153	ND	C	0.600	0.249	0.00218
38380-08-4	PCB-156	ND	C	0.600	0.255	0.00266
69782-90-7	PCB-157	ND	C156	0.600	0.255	0.00266
52663-72-6	PCB-167	ND		0.300	0.180	0.00177
32774-16-6	PCB-169	ND		0.300	0.123	0.00173
35065-30-6	PCB-170	0.00233	J q	0.300	0.132	0.000261
35065-29-3	PCB-180	0.00166	J q C	0.600	0.204	0.000211
52663-68-0	PCB-187	ND		0.300	0.126	0.000224
39635-31-9	PCB-189	ND		0.300	0.147	0.00384
52663-78-2	PCB-195	ND		0.300	0.159	0.00285
40186-72-9	PCB-206	ND		0.300	0.171	0.0717
2051-24-3	PCB-209	ND		0.300	0.138	0.00172

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 MEDIA CHECK A-2171</u> <u>FILTER, A-2170 XAD</u> <u>COMBINED</u>	Lab Sample ID: <u>140-36689-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36689-a-14-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/07/2024 00:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/12/2024 14:09</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87571</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	66		20-145
208263-77-8	PCB-3L	66		20-145
234432-86-1	PCB-4L	70		20-145
208263-67-6	PCB-15L	71		20-145
234432-87-2	PCB-19L	65		20-145
208263-79-0	PCB-37L	74		20-145
234432-88-3	PCB-54L	71		20-145
105600-23-5	PCB-77L	81		20-145
208461-24-9	PCB-81L	79		20-145
234432-89-4	PCB-104L	70		20-145
208263-62-1	PCB-105L	83		20-145
208263-63-2	PCB-114L	79		20-145
104130-40-7	PCB-118L	80		20-145
208263-64-3	PCB-123L	79		20-145
208263-65-4	PCB-126L	86		20-145
234432-90-7	PCB-155L	80		20-145
208263-68-7	PCB-156L	85	C	20-145
235416-30-5	PCB-157L	85	C156	20-145
208263-69-8	PCB-167L	84		20-145
208263-70-1	PCB-169L	87		20-145
160901-80-4	PCB-170L	88		20-145
234432-91-8	PCB-188L	78		20-145
208263-73-4	PCB-189L	90		20-145
105600-26-8	PCB-202L	84		20-145
234446-64-1	PCB-205L	87		20-145
208263-75-6	PCB-206L	94		20-145
234432-92-9	PCB-208L	93		20-145
105600-27-9	PCB-209L	104		20-145

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Client Sample ID: M23 MEDIA CHECK A-2171 Lab Sample ID: 140-36689-14
FILTER, A-2170 XAD
COMBINED
Matrix: Air Lab File ID: 140-36689-a-14-c.d
Analysis Method: 23 Date Collected: 05/07/2024 00:00
Extract. Method: Combined Prep Date Extracted: 05/31/2024 12:09
Sample wt/vol: 1 (Sample) Date Analyzed: 06/12/2024 14:09
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 87571 Units: ng/Sample
Preparation Batch No.: 87206 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	68		20-130
235416-29-2	PCB-111L	70		20-130
232919-67-4	PCB-178L	73		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d
Lims ID: 140-36689-A-14-C
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Sample Type: Client
Inject. Date: 12-Jun-2024 14:09:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033049-006
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 17:58:20 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1667

First Level Reviewer: P0IK

Date: 12-Jun-2024 17:58:20

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					0.0356	0.0221	0.0115	0.0115		RQ
D PCB-1L	11:32	6230127	3.07	1.6108	65.8	65.8	0.2907	0.2907	65.82	
D PCB-3L	13:39	6201359	3.10	1.5891	66.4	66.4	0.2947	0.2947	66.41	
PCB-1	11:33						0.0103	0.0103		
PCB-2	13:30	1621	3.13	1.1805	0.0356	0.0221	0.0117	0.0117		RQM
PCB-3	13:42						0.0125	0.0125		
S Total Dichlorobiphenyls					0.3026	0.2272	0.0153	0.0153		RQ
D PCB-4L	13:55	2648951	1.58	0.6475	69.6	69.6	0.1685	0.1685	69.61	
* PCB-9L	15:52	5876414	1.63		100.0	100.0				
\$ PCB-8L	16:43						0.1662	0.1662		
D PCB-15L	19:46	4471174	1.64	1.0789	70.5	70.5	0.1011	0.1011	70.52	
PCB-4	13:54						0.0180	0.0180		RQU
PCB-10	14:07						0.0160	0.0160		
PCB-9	15:53						0.0148	0.0148		RQU
PCB-7	16:04						0.0149	0.0149		
PCB-6	16:19						0.0137	0.0137		
PCB-5	16:33						0.0157	0.0157		RQU
PCB-8	16:44	2105	1.56	1.5889	0.0608	0.0372	0.0133	0.0133		RQM
PCB-14	18:19	1403	1.56	1.4025	0.0485	0.0281	0.0150	0.0150		RQ
PCB-11	19:08	7464	1.56	1.2951	0.1934	0.1619	0.0163	0.0163		RQ
PCB-12	19:29						0.0158	0.0158		
PCB-13 (C12)	19:29						0.0158	0.0158		
PCB-15	19:48						0.0150	0.0150		
S Total Trichlorobiphenyls					0.0956	0.0714	0.0151	0.0151		RQ
D PCB-19L	17:00	1860233	1.03	0.6285	64.6	64.6	0.5405	0.5405	64.57	
* PCB-32L	20:14	4583474	1.17		100.0	100.0				
* PCB-31L	22:30	9074679	1.04		100.0	100.0				
\$ PCB-28L	22:47	6483017	1.07	1.0494	68.1	68.1	0.1398	0.1398	68.08	
D PCB-37L	26:46	5868879	1.08	0.8749	73.9	73.9	0.1676	0.1676	73.92	
PCB-19	17:02						0.0109	0.0109		
PCB-18	18:52	831	1.20	1.7652	0.0253	0.0253	0.007917	0.007917		
PCB-30 (C18)	18:52	831	1.20	1.7652	0.0253	0.0253	0.007917	0.007917		
PCB-17	19:19						0.0112	0.0112		
PCB-27	19:32						0.007626	0.007626		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:39						0.008330	0.008330		
PCB-16	19:47						0.0124	0.0124		
PCB-32	20:17						0.007627	0.007627		
PCB-34	21:32						0.0183	0.0183		
PCB-23	21:41						0.0191	0.0191		
PCB-26	22:00						0.0184	0.0184		
PCB-29 (C26)	22:00						0.0184	0.0184		
PCB-25	22:13						0.0162	0.0162		
PCB-31	22:32						0.0179	0.0179		
PCB-20	22:48	3170	1.04	1.1718	0.0703	0.0461	0.0176	0.0176		RQ
PCB-28 (C20)	22:48	3170	1.04	1.1718	0.0703	0.0461	0.0176	0.0176		RQ
PCB-21	23:00						0.0192	0.0192		
PCB-33 (C21)	23:00						0.0192	0.0192		
PCB-22	23:28						0.0173	0.0173		
PCB-36	25:01						0.0187	0.0187		
PCB-39	25:22						0.0178	0.0178		
PCB-38	25:57						0.0191	0.0191		
PCB-35	26:24						0.0183	0.0183		
PCB-37	26:49						0.0181	0.0181		
S Total Tetrachlorobiphenyls							0.0710	0.0710		
D PCB-54L	20:04	1802534	0.85	0.5562	70.7	70.7	0.0757	0.0757	70.70	
* PCB-52L	24:37	4774345	0.79		100.0	100.0				
\$ PCB-79L	32:32						0.1938	0.1938		
D PCB-81L	33:31	4698959	0.79	1.2470	78.9	78.9	0.1381	0.1381	78.93	
D PCB-77L	34:04	5131374	0.80	1.3212	81.3	81.3	0.1303	0.1303	81.35	
PCB-54	20:06						0.005833	0.005833		
PCB-50	22:16						0.0588	0.0588		
PCB-53 (C50)	22:16						0.0588	0.0588		
PCB-45	23:00						0.0610	0.0610		
PCB-51 (C45)	23:00						0.0610	0.0610		
PCB-46	23:15						0.0710	0.0710		
PCB-52	24:40						0.0548	0.0548		
PCB-43	24:48						0.0488	0.0488		
PCB-73 (C43)	24:48						0.0488	0.0488		
PCB-49	25:05						0.0472	0.0472		
PCB-69 (C49)	25:05						0.0472	0.0472		
PCB-48	25:25						0.0600	0.0600		
PCB-44	25:40						0.0518	0.0518		
PCB-47 (C44)	25:40						0.0518	0.0518		
PCB-65 (C44)	25:40						0.0518	0.0518		
PCB-59	25:58						0.0425	0.0425		
PCB-62 (C59)	25:58						0.0425	0.0425		
PCB-75 (C59)	25:58						0.0425	0.0425		
PCB-42	26:10						0.0623	0.0623		
PCB-40	26:40						0.0569	0.0569		
PCB-41 (C40)	26:40						0.0569	0.0569		
PCB-71 (C40)	26:40						0.0569	0.0569		
PCB-64	26:53						0.0428	0.0428		
PCB-72	27:43						0.0461	0.0461		
PCB-68	27:59						0.0402	0.0402		
PCB-57	28:25						0.0466	0.0466		
PCB-58	28:39						0.0380	0.0380		
PCB-67	28:49						0.0354	0.0354		
PCB-63	29:05						0.0449	0.0449		
PCB-61	29:25						0.0400	0.0400		
PCB-70 (C61)	29:25						0.0400	0.0400		
PCB-74 (C61)	29:25						0.0400	0.0400		
PCB-76 (C61)	29:25						0.0400	0.0400		
PCB-66	29:45						0.0401	0.0401		
PCB-55	29:55						0.0381	0.0381		
PCB-56	30:24						0.0409	0.0409		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:38						0.0449	0.0449		
PCB-80	31:01						0.0381	0.0381		
PCB-79	32:33						0.0351	0.0351		
PCB-78	33:06						0.0434	0.0434		
PCB-81	33:33						0.0473	0.0473		
PCB-77	34:06						0.0459	0.0459		
S Total Pentachlorobiphenyls					0.2848	0.1936	0.0164	0.0164		RQ
D PCB-104L	25:33	3183033	1.62	1.2161	70.1	70.1	0.0514	0.0514	70.13	
\$ PCB-95L	28:32						0.0946	0.0946		
* PCB-101L	31:27	3732187	1.59		100.0	100.0				
\$ PCB-111L	34:07	3587231	1.57	1.3699	70.2	70.2	0.0456	0.0456	70.16	
D PCB-123L	36:05	4860803	1.57	0.9731	79.0	79.0	1.127	1.127	79.03	
D PCB-118L	36:24	5115357	1.61	1.0102	80.1	80.1	1.086	1.086	80.12	
D PCB-114L	36:56	4945527	1.59	0.9949	78.6	78.6	1.102	1.102	78.65	
D PCB-105L	37:34	4979396	1.60	0.9514	82.8	82.8	1.153	1.153	82.80	
* PCB-127L	39:03	6320517	1.59		100.0	100.0				
D PCB-126L	40:40	5112669	1.62	0.9439	85.7	85.7	1.162	1.162	85.70	
PCB-104	25:36						0.007281	0.007281		
PCB-96	25:58						0.006713	0.006713		
PCB-103	27:53						0.008402	0.008402		
PCB-94	28:07						0.009613	0.009613		
PCB-95	28:33						0.009143	0.009143		
PCB-93	28:46						0.008713	0.008713		
PCB-100 (C93)	28:46						0.008713	0.008713		
PCB-98	28:54	2360	1.55	0.8262	0.1224	0.0897	0.008890	0.008890		RQ
PCB-102 (C98)	28:54	2360	1.55	0.8262	0.1224	0.0897	0.008890	0.008890		RQ
PCB-88	29:25						0.009165	0.009165		
PCB-91 (C88)	29:25						0.009165	0.009165		
PCB-84	29:38						0.0101	0.0101		
PCB-89	30:07						0.009418	0.009418		
PCB-121	30:31						0.005665	0.005665		
PCB-92	30:54						0.008594	0.008594		
PCB-90	31:28						0.007690	0.007690		
PCB-101 (C90)	31:28						0.007690	0.007690		
PCB-113 (C90)	31:28						0.007690	0.007690		
PCB-83	32:02	601	1.55	0.8385	0.0534	0.0225	0.008759	0.008759		RQ
PCB-99 (C83)	32:02	601	1.55	0.8385	0.0534	0.0225	0.008759	0.008759		RQ
PCB-112	32:10						0.005205	0.005205		
PCB-86	32:33						0.007013	0.007013		
PCB-87 (C86)	32:33						0.007013	0.007013		
PCB-97 (C86)	32:33						0.007013	0.007013		
PCB-109 (C86)	32:33						0.007013	0.007013		
PCB-119 (C86)	32:33						0.007013	0.007013		
PCB-125 (C86)	32:33						0.007013	0.007013		
PCB-85	33:16						0.007056	0.007056		
PCB-116 (C85)	33:16						0.007056	0.007056		
PCB-117 (C85)	33:16						0.007056	0.007056		
PCB-110	33:28						0.006162	0.006162		
PCB-115 (C110)	33:28						0.006162	0.006162		
PCB-82	33:46						0.008845	0.008845		
PCB-111	34:09						0.006057	0.006057		
PCB-120	34:34						0.004975	0.004975		RQU
PCB-108	35:45						0.0338	0.0338		
PCB-124 (C108)	35:45						0.0338	0.0338		
PCB-107	36:00						0.0318	0.0318		
PCB-123	36:07						0.0361	0.0361		
PCB-106	36:13						0.0355	0.0355		
PCB-118	36:26						0.0307	0.0307		
PCB-122	36:47						0.0402	0.0402		
PCB-114	36:57						0.0356	0.0356		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:37						0.0328	0.0328		
PCB-127	39:05						0.0338	0.0338		
PCB-126	40:44	4563	1.55	1.0976	0.1090	0.0813	0.0358	0.0358		RQM
S Total Hexachlorobiphenyls					0.0840	0.0755	0.007970	0.007970		RQ
D PCB-155L	31:12	3239996	1.29	1.0851	80.0	80.0	0.0551	0.0551	80.00	
\$ PCB-153L	38:16	74403	1.28	0.9169	1.784	1.784	0.8780	0.8780		
* PCB-138L	39:31	4329742	1.28		100.0	100.0				
D PCB-167L	42:31	4569939	1.27	1.2572	84.0	84.0	0.5435	0.5435	83.95	
D PCB-156L	43:40	8960943	1.27	1.2106	171.0	171.0	0.5645	0.5645	85.48	
D PCB-157L (C156L)	43:40	8960943	1.27	1.2106	171.0	171.0	0.5645	0.5645	85.48	
D PCB-169L	46:54	4662971	1.27	1.2439	86.6	86.6	0.5494	0.5494	86.58	
PCB-155	31:15						0.006379	0.006379		
PCB-152	31:27						0.006088	0.006088		
PCB-150	31:37						0.005945	0.005945		
PCB-136	31:59						0.005955	0.005955		
PCB-145	32:16						0.006220	0.006220		
PCB-148	33:47						0.007923	0.007923		
PCB-135	34:22						0.008303	0.008303		
PCB-151 (C135)	34:22						0.008303	0.008303		
PCB-154	34:38						0.007411	0.007411		
PCB-144	34:56						0.007672	0.007672		
PCB-147	35:16	731	1.24	0.8950	0.0265	0.0180	0.008875	0.008875		RQ
PCB-149 (C147)	35:16	731	1.24	0.8950	0.0265	0.0180	0.008875	0.008875		RQ
PCB-134	35:36						0.0100	0.0100		
PCB-143 (C134)	35:36						0.0100	0.0100		
PCB-139	35:53						0.009059	0.009059		
PCB-140 (C139)	35:53						0.009059	0.009059		
PCB-131	36:06						0.0106	0.0106		
PCB-142	36:14						0.0106	0.0106		
PCB-132	36:34						0.0106	0.0106		
PCB-133	37:04						0.009812	0.009812		
PCB-165	37:27						0.007752	0.007752		
PCB-146	37:42						0.008243	0.008243		
PCB-161	37:50						0.007037	0.007037		
PCB-153	38:20						0.007262	0.007262		
PCB-168 (C153)	38:20						0.007262	0.007262		
PCB-141	38:30						0.009073	0.009073		
PCB-130	38:55						0.0113	0.0113		
PCB-137	39:08						0.0102	0.0102		
PCB-164	39:15						0.007651	0.007651		
PCB-129	39:34	2478	1.31	0.9464	0.0576	0.0576	0.008393	0.008393		M
PCB-138 (C129)	39:34	2478	1.31	0.9464	0.0576	0.0576	0.008393	0.008393		M
PCB-160 (C129)	39:34	2478	1.31	0.9464	0.0576	0.0576	0.008393	0.008393		M
PCB-163 (C129)	39:34	2478	1.31	0.9464	0.0576	0.0576	0.008393	0.008393		M
PCB-158	39:56						0.006059	0.006059		
PCB-128	40:47						0.008081	0.008081		
PCB-166 (C128)	40:47						0.008081	0.008081		
PCB-159	41:48						0.005733	0.005733		
PCB-162	42:05						0.006319	0.006319		
PCB-167	42:33						0.005911	0.005911		
PCB-156	43:42						0.008871	0.008871		
PCB-157 (C156)	43:42						0.008871	0.008871		
PCB-169	46:55						0.005775	0.005775		
S Total Heptachlorobiphenyls					0.0509	0.0145	0.001328	0.001328		RQ
D PCB-188L	36:56	3689337	1.03	1.3133	78.4	78.4	0.0370	0.0370	78.38	
\$ PCB-178L	39:59	2696060	1.08	1.0313	72.9	72.9	0.0472	0.0472	72.94	
* PCB-180L	45:04	3583981	1.06		100.0	100.0				
D PCB-170L	46:19	2631466	1.08	0.8362	87.8	87.8	0.0582	0.0582	87.80	
D PCB-189L	49:25	5913929	1.06	1.4414	89.9	89.9	0.8846	0.8846	89.91	
PCB-188	36:58						0.000601	0.000601		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:19						0.000575	0.000575		
PCB-184	37:49						0.000601	0.000601		
PCB-176	38:11						0.000666	0.000666		
PCB-186	38:38						0.000557	0.000557		
PCB-178	40:01						0.000918	0.000918		
PCB-175	40:39						0.000862	0.000862		
PCB-187	40:55						0.000746	0.000746		
PCB-182	41:07						0.000888	0.000888		
PCB-183	41:31	38	1.05	0.9825	0.0193	0.001224	0.000836	0.000836		RQ
PCB-185 (C183)	41:31	38	1.05	0.9825	0.0193	0.001224	0.000836	0.000836		RQ
PCB-174	41:46						0.000852	0.000852		
PCB-177	42:12						0.000841	0.000841		
PCB-181	42:35						0.000864	0.000864		
PCB-171	42:48						0.000880	0.000880		
PCB-173 (C171)	42:48						0.000880	0.000880		
PCB-172	44:26						0.000964	0.000964		
PCB-192	44:43						0.000610	0.000610		
PCB-180	45:06	204	1.05	1.1676	0.0221	0.005528	0.000704	0.000704		RQ
PCB-193 (C180)	45:06	204	1.05	1.1676	0.0221	0.005528	0.000704	0.000704		RQ
PCB-191	45:27						0.000637	0.000637		
PCB-170	46:21	243	1.05	1.1865	0.009576	0.007783	0.000869	0.000869		RQ
PCB-190	46:51						0.000617	0.000617		
PCB-189	49:27						0.0128	0.0128		
S Total Octachlorobiphenyls					0.0215	0.0172	0.004979	0.004979		RQ
D PCB-202L	42:18	2956433	0.94	0.9818	84.0	84.0	0.0283	0.0283	84.02	
* PCB-194L	51:32	4563370	0.91		100.0	100.0				
D PCB-205L	52:00	4685776	0.89	1.1786	87.1	87.1	0.0713	0.0713	87.13	
PCB-202	42:19						0.003483	0.003483		
PCB-201	43:14						0.003699	0.003699		
PCB-204	43:55						0.003441	0.003441		
PCB-197	44:08						0.003149	0.003149		
PCB-200	44:15						0.003582	0.003582		
PCB-198	47:02						0.004148	0.004148		
PCB-199 (C198)	47:02						0.004148	0.004148		
PCB-196	47:42						0.004622	0.004622		
PCB-203	47:54						0.003883	0.003883		
PCB-195	49:12						0.009493	0.009493		
PCB-194	51:33	784	0.89	0.9735	0.0215	0.0172	0.008058	0.008058		RQ
PCB-205	52:01						0.007211	0.007211		
S Total Nonachlorobiphenyls							0.2389	0.2389		
D PCB-208L	48:58	4070625	0.81	0.9576	93.2	93.2	0.3643	0.3643	93.15	
D PCB-206L	53:45	2979008	0.81	0.6947	94.0	94.0	0.5021	0.5021	93.97	
PCB-208	48:59						0.1962	0.1962		
PCB-207	49:55						0.1909	0.1909		
PCB-206	53:47						0.2389	0.2389		
D PCB-209L	55:22	3164345	0.72	0.6669	104.0	104.0	0.0749	0.0749	104	
DCB Decachlorobiphenyl	55:23						0.005721	0.005721		
S Polychlorinated biphenyls, Total					0.8395		0.0419	0.0419		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d
Lims ID: 140-36689-A-14-C
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Sample Type: Client
Inject. Date: 12-Jun-2024 14:09:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033049-006
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 17:58:20 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICAL File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1667

First Level Reviewer: P0IK

Date: 12-Jun-2024 17:58:20

Signal	RT (min.)	Adj RT (min.)	⏏ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:32	11:32	-2	0.726	4700492	1875331	2166	5415	866	3.07(2.66-3.60)	
202.0766	11:32	11:32	-2	0.726	1529635	601630	1022	2555	589		
PCB-3L											
200.0795	13:39	13:40	-2	0.861	4687747	1534757	2166	5415	709	3.10(2.66-3.60)	
202.0766	13:39	13:40	-2	0.861	1513612	491625	1022	2555	481		
PCB-1											
188.0393	11:32						96	240			
190.0363	11:32						28	70			
PCB-2											
188.0393	13:30	13:30	-2	0.988	1229	509	96	240	5	0.89(2.66-3.60)	RQM
190.0363	13:28	13:30	-3	0.987	1383	356	28	70	13		M
	Empc Correction				392	162	28	70	6		
PCB-3											
188.0393	13:40						96	240			
190.0363	13:40						28	70			
PCB-4L											
234.0406	13:55	13:55	-2	0.877	1622308	522238	616	1540	848	1.58(1.33-1.79)	
236.0376	13:55	13:55	-2	0.877	1026643	322971	127	317	2543		
PCB-9L											
234.0406	15:52	15:54	-2		3638470	1050787	616	1540	1706	1.63(1.33-1.79)	
236.0376	15:52	15:54	-2		2237944	651044	127	317	5126		
PCB-8L											
234.0406	16:41						616	1540			
236.0376	16:41						127	317			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:46	19:45	-1	1.246	2780225	613932	616	1540	997		
236.0376	19:45	19:45	-2	1.246	1690949	392600	127	317	3091	1.64(1.33-1.79)	
PCB-4											
222.0003	13:56						29	72			RQU
223.9974	13:56						49	122			
PCB-10											
222.0003	14:05						29	72			
223.9974	14:05						49	122			
PCB-9											
222.0003	15:52						29	72			RQU
223.9974	15:52						49	122			
PCB-7											
222.0003	16:01						29	72			
223.9974	16:01						49	122			
PCB-6											
222.0003	16:17						29	72			
223.9974	16:17						49	122			
PCB-5											
222.0003	16:34						29	72			RQU
223.9974	16:34						49	122			
PCB-8											
222.0003	16:44	16:42	0	1.202	1283	527	29	72	18		RQM
223.9974	16:42	16:42	-2	1.200	2156	494	49	122	10	0.60(1.33-1.79)	M
	Empc Correction				822	337	49	122	7		
PCB-14											
222.0003	18:19	18:19	-2	0.927	855	205	29	72	7		RQ
223.9974	18:18	18:19	-3	0.925	1565	391	49	122	8	0.55(1.33-1.79)	
	Empc Correction				548	131	49	122	3		
PCB-11											
222.0003	19:08	19:10	-3	0.968	5999	922	29	72	32		
	Empc Correction				4548	1538	29	72	53		
223.9974	19:11	19:10	-1	0.970	2916	986	49	122	20	2.06(1.33-1.79)	
PCB-12											
222.0003	19:28						29	72			
223.9974	19:28						49	122			
PCB-13 (C12)											
222.0003	19:28						29	72			
223.9974	19:28						49	122			
PCB-15											
222.0003	19:46						29	72			
223.9974	19:46						49	122			
PCB-19L											
268.0016	17:00	17:00	-2	0.840	941894	253396	1051	2627	241		
269.9986	17:00	17:00	-2	0.840	918339	247475	360	900	687	1.03(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:14	20:16	-2		2468042	523861	1051	2627	498		
269.9986	20:14	20:16	-2		2115432	514404	360	900	1429	1.17(0.88-1.20)	
PCB-31L											
268.0016	22:30	22:31	-1		4636711	1046836	729	1822	1436		
269.9986	22:29	22:31	-2		4437968	985127	463	1157	2128	1.04(0.88-1.20)	
PCB-28L											
268.0016	22:47	22:46	-1	1.013	3347070	727231	729	1822	998		
269.9986	22:47	22:46	-1	1.013	3135947	689542	463	1157	1489	1.07(0.88-1.20)	
PCB-37L											
268.0016	26:46	26:45	-1	1.190	3050600	590106	729	1822	809		
269.9986	26:46	26:45	-1	1.190	2818279	556917	463	1157	1203	1.08(0.88-1.20)	
PCB-19											
255.9613	17:00						21	52			
257.9584	17:00						7	17			
PCB-18											
255.9613	18:52	18:51	0	1.110	453	200	21	52	10		
257.9584	18:53	18:51	1	1.111	378	109	7	17	16	1.20(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:52	18:51	0	1.110	453	200	21	52	10		
257.9584	18:53	18:51	1	1.111	378	109	7	17	16	1.20(0.88-1.20)	
PCB-17											
255.9613	19:18						21	52			
257.9584	19:18						7	17			
PCB-27											
255.9613	19:29						21	52			
257.9584	19:29						7	17			
PCB-24											
255.9613	19:37						21	52			
257.9584	19:37						7	17			
PCB-16											
255.9613	19:44						21	52			
257.9584	19:44						7	17			
PCB-32											
255.9613	20:14						21	52			
257.9584	20:14						7	17			
PCB-34											
255.9613	21:29						54	135			
257.9584	21:29						41	102			
PCB-23											
255.9613	21:39						54	135			
257.9584	21:39						41	102			
PCB-26											
255.9613	21:58						54	135			
257.9584	21:58						41	102			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											
255.9613	21:58						54	135			
257.9584	21:58						41	102			
PCB-25											
255.9613	22:13						54	135			
257.9584	22:13						41	102			
PCB-31											
255.9613	22:31						54	135			
257.9584	22:31						41	102			
PCB-20											
255.9613	22:48	22:50	-2	0.852	3282	864	54	135	16		RQ
	Empc Correction				1616	360	54	135	7		
257.9584	22:49	22:50	-1	0.852	1554	347	41	102	8	2.11(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:48	22:50	-2	0.852	3282	864	54	135	16		RQ
	Empc Correction				1616	360	54	135	7		
257.9584	22:49	22:50	-1	0.852	1554	347	41	102	8	2.11(0.88-1.20)	
PCB-21											
255.9613	22:59						54	135			
257.9584	22:59						41	102			
PCB-33 (C21)											
255.9613	22:59						54	135			
257.9584	22:59						41	102			
PCB-22											
255.9613	23:27						54	135			
257.9584	23:27						41	102			
PCB-36											
255.9613	24:59						54	135			
257.9584	24:59						41	102			
PCB-39											
255.9613	25:21						54	135			
257.9584	25:21						41	102			
PCB-38											
255.9613	25:55						54	135			
257.9584	25:55						41	102			
PCB-35											
255.9613	26:23						54	135			
257.9584	26:23						41	102			
PCB-37											
255.9613	26:48						54	135			
257.9584	26:48						41	102			
PCB-54L											
301.9626	20:04	20:04	-2	0.815	826249	194744	120	300	1623		
303.9597	20:04	20:04	-2	0.815	976285	236139	55	137	4293	0.85(0.65-0.89)	
PCB-52L											
301.9626	24:37	24:38	-1		2114049	467553	335	837	1396		
303.9597	24:37	24:38	-1		2660296	583728	389	972	1501	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-79L											
301.9626	32:32						335	837			
303.9597	32:32						389	972			
PCB-81L											
301.9626	33:31	33:28	0	1.361	2079097	409301	335	837	1222		
303.9597	33:31	33:28	0	1.361	2619862	510085	389	972	1311	0.79(0.65-0.89)	
PCB-77L											
301.9626	34:04	34:02	0	1.384	2285002	423231	335	837	1263		
303.9597	34:04	34:02	0	1.384	2846372	521520	389	972	1341	0.80(0.65-0.89)	
PCB-54											
289.9224	20:06						4	10			
291.9194	20:06						9	22			
PCB-50											
289.9224	22:14						21	52			
291.9194	22:14						167	417			
PCB-53 (C50)											
289.9224	22:14						21	52			
291.9194	22:14						167	417			
PCB-45											
289.9224	22:58						21	52			
291.9194	22:58						167	417			
PCB-51 (C45)											
289.9224	22:58						21	52			
291.9194	22:58						167	417			
PCB-46											
289.9224	23:12						21	52			
291.9194	23:12						167	417			
PCB-52											
289.9224	24:37						21	52			
291.9194	24:37						167	417			
PCB-43											
289.9224	24:46						21	52			
291.9194	24:46						167	417			
PCB-73 (C43)											
289.9224	24:46						21	52			
291.9194	24:46						167	417			
PCB-49											
289.9224	25:03						21	52			
291.9194	25:03						167	417			
PCB-69 (C49)											
289.9224	25:03						21	52			
291.9194	25:03						167	417			
PCB-48											
289.9224	25:23						21	52			
291.9194	25:23						167	417			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-44											
289.9224	25:37						21	52			
291.9194	25:37						167	417			
PCB-47 (C44)											
289.9224	25:37						21	52			
291.9194	25:37						167	417			
PCB-65 (C44)											
289.9224	25:37						21	52			
291.9194	25:37						167	417			
PCB-59											
289.9224	25:57						21	52			
291.9194	25:57						167	417			
PCB-62 (C59)											
289.9224	25:57						21	52			
291.9194	25:57						167	417			
PCB-75 (C59)											
289.9224	25:57						21	52			
291.9194	25:57						167	417			
PCB-42											
289.9224	26:08						21	52			
291.9194	26:08						167	417			
PCB-40											
289.9224	26:38						21	52			
291.9194	26:38						167	417			
PCB-41 (C40)											
289.9224	26:38						21	52			
291.9194	26:38						167	417			
PCB-71 (C40)											
289.9224	26:38						21	52			
291.9194	26:38						167	417			
PCB-64											
289.9224	26:50						21	52			
291.9194	26:50						167	417			
PCB-72											
289.9224	27:42						21	52			
291.9194	27:42						167	417			
PCB-68											
289.9224	27:59						21	52			
291.9194	27:59						167	417			
PCB-57											
289.9224	28:24						21	52			
291.9194	28:24						167	417			
PCB-58											
289.9224	28:39						21	52			
291.9194	28:39						167	417			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-67											
289.9224	28:49						21	52			
291.9194	28:49						167	417			
PCB-63											
289.9224	29:04						21	52			
291.9194	29:04						167	417			
PCB-61											
289.9224	29:25						21	52			
291.9194	29:25						167	417			
PCB-70 (C61)											
289.9224	29:25						21	52			
291.9194	29:25						167	417			
PCB-74 (C61)											
289.9224	29:25						21	52			
291.9194	29:25						167	417			
PCB-76 (C61)											
289.9224	29:25						21	52			
291.9194	29:25						167	417			
PCB-66											
289.9224	29:44						21	52			
291.9194	29:44						167	417			
PCB-55											
289.9224	29:54						21	52			
291.9194	29:54						167	417			
PCB-56											
289.9224	30:24						21	52			
291.9194	30:24						167	417			
PCB-60											
289.9224	30:37						21	52			
291.9194	30:37						167	417			
PCB-80											
289.9224	31:01						21	52			
291.9194	31:01						167	417			
PCB-79											
289.9224	32:32						21	52			
291.9194	32:32						167	417			
PCB-78											
289.9224	33:06						21	52			
291.9194	33:06						167	417			
PCB-81											
289.9224	33:32						21	52			
291.9194	33:32						167	417			
PCB-77											
289.9224	34:06						21	52			
291.9194	34:06						167	417			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-104L											
337.9207	25:33	25:34	-1	0.812	1967820	416826	109	272	3824		
339.9178	25:33	25:34	-1	0.812	1215213	263977	77	192	3428	1.62(1.32-1.78)	
PCB-95L											
337.9207	28:31						109	272			
339.9178	28:31						77	192			
PCB-101L											
337.9207	31:27	31:27	0		2292014	456498	109	272	4188		
339.9178	31:27	31:27	0		1440173	287208	77	192	3730	1.59(1.32-1.78)	
PCB-111L											
337.9207	34:07	34:07	0	1.085	2190452	432584	109	272	3969		
339.9178	34:07	34:07	0	1.085	1396779	273914	77	192	3557	1.57(1.32-1.78)	
PCB-123L											
337.9207	36:05	36:04	-1	1.147	2971868	581865	2968	7420	196		
339.9178	36:05	36:04	-1	1.147	1888935	365878	2239	5597	163	1.57(1.32-1.78)	
PCB-118L											
337.9207	36:24	36:24	-1	1.158	3159044	612907	2968	7420	207		
339.9178	36:24	36:24	-1	1.158	1956313	378393	2239	5597	169	1.61(1.32-1.78)	
PCB-114L											
337.9207	36:56	36:56	-1	1.174	3039260	586340	2968	7420	198		
339.9178	36:56	36:56	-1	1.174	1906267	365797	2239	5597	163	1.59(1.32-1.78)	
PCB-105L											
337.9207	37:34	37:34	-1	1.195	3066240	577400	2968	7420	195		
339.9178	37:34	37:34	-1	1.195	1913156	365276	2239	5597	163	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:03	39:03	-1		3881482	732838	2968	7420	247		
339.9178	39:03	39:03	-1		2439035	453960	2239	5597	203	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:40	40:39	0	1.293	3160117	570595	2968	7420	192		
339.9178	40:40	40:39	0	1.293	1952552	362109	2239	5597	162	1.62(1.32-1.78)	
PCB-104											
325.8804	25:35						13	32			
327.8775	25:35						7	17			
PCB-96											
325.8804	25:57						13	32			
327.8775	25:57						7	17			
PCB-103											
325.8804	27:51						13	32			
327.8775	27:51						7	17			
PCB-94											
325.8804	28:05						13	32			
327.8775	28:05						7	17			
PCB-95											
325.8804	28:32						13	32			
327.8775	28:32						7	17			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-93											
325.8804	28:44						13	32			
327.8775	28:44						7	17			
PCB-100 (C93)											
325.8804	28:44						13	32			
327.8775	28:44						7	17			
PCB-98											
325.8804	28:54	28:53	-1	1.131	1435	420	13	32	32		RQ
327.8775	28:57	28:53	1	1.133	1783	350	7	17	50	0.80(1.32-1.78)	
	Empc Correction				925	270	7	17	39		
PCB-102 (C98)											
325.8804	28:54	28:53	-1	1.131	1435	420	13	32	32		RQ
327.8775	28:57	28:53	1	1.133	1783	350	7	17	50	0.80(1.32-1.78)	
	Empc Correction				925	270	7	17	39		
PCB-88											
325.8804	29:22						13	32			
327.8775	29:22						7	17			
PCB-91 (C88)											
325.8804	29:22						13	32			
327.8775	29:22						7	17			
PCB-84											
325.8804	29:37						13	32			
327.8775	29:37						7	17			
PCB-89											
325.8804	30:05						13	32			
327.8775	30:05						7	17			
PCB-121											
325.8804	30:30						13	32			
327.8775	30:30						7	17			
PCB-92											
325.8804	30:54						13	32			
327.8775	30:54						7	17			
PCB-90											
325.8804	31:27						13	32			
327.8775	31:27						7	17			
PCB-101 (C90)											
325.8804	31:27						13	32			
327.8775	31:27						7	17			
PCB-113 (C90)											
325.8804	31:27						13	32			
327.8775	31:27						7	17			
PCB-83											
325.8804	32:02	32:02	-1	1.254	1189	233	13	32	18		RQ
	Empc Correction				365	119	13	32	9		
327.8775	31:59	32:02	-5	1.251	236	77	7	17	11	5.04(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-99 (C83)											RQ
325.8804	32:02	32:02	-1	1.254	1189	233	13	32	18		
	Empc Correction				365	119	13	32	9		
327.8775	31:59	32:02	-5	1.251	236	77	7	17	11	5.04(1.32-1.78)	
PCB-112											
325.8804	32:09						13	32			
327.8775	32:09						7	17			
PCB-86											
325.8804	32:30						13	32			
327.8775	32:30						7	17			
PCB-87 (C86)											
325.8804	32:30						13	32			
327.8775	32:30						7	17			
PCB-97 (C86)											
325.8804	32:30						13	32			
327.8775	32:30						7	17			
PCB-109 (C86)											
325.8804	32:30						13	32			
327.8775	32:30						7	17			
PCB-119 (C86)											
325.8804	32:30						13	32			
327.8775	32:30						7	17			
PCB-125 (C86)											
325.8804	32:30						13	32			
327.8775	32:30						7	17			
PCB-85											
325.8804	33:14						13	32			
327.8775	33:14						7	17			
PCB-116 (C85)											
325.8804	33:14						13	32			
327.8775	33:14						7	17			
PCB-117 (C85)											
325.8804	33:14						13	32			
327.8775	33:14						7	17			
PCB-110											
325.8804	33:25						13	32			
327.8775	33:25						7	17			
PCB-115 (C110)											
325.8804	33:25						13	32			
327.8775	33:25						7	17			
PCB-82											
325.8804	33:45						13	32			
327.8775	33:45						7	17			
PCB-111											
325.8804	34:08						13	32			
327.8775	34:08						7	17			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-120											RQU
325.8804	34:34						13	32			
327.8775	34:34						7	17			
PCB-108											
325.8804	35:44						103	257			
327.8775	35:44						44	110			
PCB-124 (C108)											
325.8804	35:44						103	257			
327.8775	35:44						44	110			
PCB-107											
325.8804	35:58						103	257			
327.8775	35:58						44	110			
PCB-123											
325.8804	36:06						103	257			
327.8775	36:06						44	110			
PCB-106											
325.8804	36:12						103	257			
327.8775	36:12						44	110			
PCB-118											
325.8804	36:26						103	257			
327.8775	36:26						44	110			
PCB-122											
325.8804	36:46						103	257			
327.8775	36:46						44	110			
PCB-114											
325.8804	36:57						103	257			
327.8775	36:57						44	110			
PCB-105											
325.8804	37:36						103	257			
327.8775	37:36						44	110			
PCB-127											
325.8804	39:04						103	257			
327.8775	39:04						44	110			
PCB-126											RQM
325.8804	40:44	40:45	2	1.002	2774	538	103	257	5		M
327.8775	40:45	40:45	3	1.002	3343	782	44	110	18	0.83(1.32-1.78)	M
Empc Correction					1789	347	44	110	8		
PCB-155L											
371.8817	31:12	31:13	-1	0.790	1826826	373414	110	275	3395		
373.8788	31:12	31:13	-1	0.790	1413170	290589	68	170	4273	1.29(1.05-1.43)	
PCB-153L											
371.8817	38:16	38:16	-1	0.900	41740	9470	1134	2835	8		
373.8788	38:16	38:16	-1	0.900	32663	6524	1177	2942	6	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:31	39:32	-1		2428052	468457	1134	2835	413		
373.8788	39:31	39:32	-1		1901690	376919	1177	2942	320	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-167L											
371.8817	42:31	42:31	-1	1.076	2557684	489606	1134	2835	432		
373.8788	42:31	42:31	-1	1.076	2012255	374623	1177	2942	318	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:40	43:39	0	1.105	5016463	648637	1134	2835	572		
373.8788	43:40	43:39	0	1.105	3944480	508671	1177	2942	432	1.27(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:40	43:39	0	1.105	5016463	648637	1134	2835	572		
373.8788	43:40	43:39	0	1.105	3944480	508671	1177	2942	432	1.27(1.05-1.43)	
PCB-169L											
371.8817	46:54	46:53	0	1.187	2605858	476999	1134	2835	421		
373.8788	46:54	46:53	0	1.187	2057113	371824	1177	2942	316	1.27(1.05-1.43)	
PCB-155											
359.8415	31:14						9	22			
361.8385	31:14						7	17			
PCB-152											
359.8415	31:26						9	22			
361.8385	31:26						7	17			
PCB-150											
359.8415	31:35						9	22			
361.8385	31:35						7	17			
PCB-136											
359.8415	31:58						9	22			
361.8385	31:58						7	17			
PCB-145											
359.8415	32:15						9	22			
361.8385	32:15						7	17			
PCB-148											
359.8415	33:46						9	22			
361.8385	33:46						7	17			
PCB-135											
359.8415	34:20						9	22			
361.8385	34:20						7	17			
PCB-151 (C135)											
359.8415	34:20						9	22			
361.8385	34:20						7	17			
PCB-154											
359.8415	34:37						9	22			
361.8385	34:37						7	17			
PCB-144											
359.8415	34:55						9	22			
361.8385	34:55						7	17			
PCB-147											
359.8415	35:16	35:16	-1	1.130	405	220	10	25	22		RQ
361.8385	35:20	35:16	2	1.132	672	370	13	32	28	0.60(1.05-1.43)	
Empc Correction					326	177	13	32	14		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-149 (C147)											RQ
359.8415	35:16	35:16	-1	1.130	405	220	10	25	22		
361.8385	35:20	35:16	2	1.132	672	370	13	32	28	0.60(1.05-1.43)	
Empc Correction					326	177	13	32	14		
PCB-134											
359.8415	35:35						10	25			
361.8385	35:35						13	32			
PCB-143 (C134)											
359.8415	35:35						10	25			
361.8385	35:35						13	32			
PCB-139											
359.8415	35:52						10	25			
361.8385	35:52						13	32			
PCB-140 (C139)											
359.8415	35:52						10	25			
361.8385	35:52						13	32			
PCB-131											
359.8415	36:05						10	25			
361.8385	36:05						13	32			
PCB-142											
359.8415	36:13						10	25			
361.8385	36:13						13	32			
PCB-132											
359.8415	36:32						10	25			
361.8385	36:32						13	32			
PCB-133											
359.8415	37:02						10	25			
361.8385	37:02						13	32			
PCB-165											
359.8415	37:27						10	25			
361.8385	37:27						13	32			
PCB-146											
359.8415	37:42						10	25			
361.8385	37:42						13	32			
PCB-161											
359.8415	37:49						10	25			
361.8385	37:49						13	32			
PCB-153											
359.8415	38:19						10	25			
361.8385	38:19						13	32			
PCB-168 (C153)											
359.8415	38:19						10	25			
361.8385	38:19						13	32			
PCB-141											
359.8415	38:30						10	25			
361.8385	38:30						13	32			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-130											
359.8415	38:54						10	25			
361.8385	38:54						13	32			
PCB-137											
359.8415	39:08						10	25			
361.8385	39:08						13	32			
PCB-164											
359.8415	39:15						10	25			
361.8385	39:15						13	32			
PCB-129											
359.8415	39:34	39:34	-1	0.930	1404	331	10	25	33		M
361.8385	39:32	39:34	-2	0.930	1074	381	13	32	29	1.31(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:34	39:34	-1	0.930	1404	331	10	25	33		M
361.8385	39:32	39:34	-2	0.930	1074	381	13	32	29	1.31(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:34	39:34	-1	0.930	1404	331	10	25	33		M
361.8385	39:32	39:34	-2	0.930	1074	381	13	32	29	1.31(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:34	39:34	-1	0.930	1404	331	10	25	33		M
361.8385	39:32	39:34	-2	0.930	1074	381	13	32	29	1.31(1.05-1.43)	M
PCB-158											
359.8415	39:56						10	25			
361.8385	39:56						13	32			
PCB-128											
359.8415	40:46						10	25			
361.8385	40:46						13	32			
PCB-166 (C128)											
359.8415	40:46						10	25			
361.8385	40:46						13	32			
PCB-159											
359.8415	41:47						10	25			
361.8385	41:47						13	32			
PCB-162											
359.8415	42:04						10	25			
361.8385	42:04						13	32			
PCB-167											
359.8415	42:33						10	25			
361.8385	42:33						13	32			
PCB-156											
359.8415	43:42						10	25			
361.8385	43:42						13	32			
PCB-157 (C156)											
359.8415	43:42						10	25			
361.8385	43:42						13	32			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-169											
359.8415	46:55						10	25			
361.8385	46:55						13	32			
PCB-188L											
405.8428	36:56	36:56	-1	0.819	1876077	371289	80	200	4641		
407.8398	36:56	36:56	-1	0.819	1813260	361324	51	127	7085	1.03(0.89-1.21)	
PCB-178L											
405.8428	39:59	39:59	-1	0.887	1396825	270158	80	200	3377		
407.8398	39:59	39:59	-1	0.887	1299235	262085	51	127	5139	1.08(0.89-1.21)	
PCB-180L											
405.8428	45:04	45:04	0		1848259	357488	80	200	4469		
407.8398	45:04	45:04	0		1735722	314728	51	127	6171	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:19	46:19	0	1.028	1367750	246421	80	200	3080		
407.8398	46:19	46:19	0	1.028	1263716	238337	51	127	4673	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:25	49:25	0	1.097	3043226	552269	1270	3175	435		
407.8398	49:25	49:25	0	1.097	2870703	518548	2919	7297	178	1.06(0.89-1.21)	
PCB-188											
393.8025	36:57						1	2			
395.7995	36:57						1	2			
PCB-179											
393.8025	37:18						1	2			
395.7995	37:18						1	2			
PCB-184											
393.8025	37:49						1	2			
395.7995	37:49						1	2			
PCB-176											
393.8025	38:10						1	2			
395.7995	38:10						1	2			
PCB-186											
393.8025	38:38						1	2			
395.7995	38:38						1	2			
PCB-178											
393.8025	40:00						1	2			
395.7995	40:00						1	2			
PCB-175											
393.8025	40:38						1	2			
395.7995	40:38						1	2			
PCB-187											
393.8025	40:54						1	2			
395.7995	40:54						1	2			
PCB-182											
393.8025	41:07						1	2			
395.7995	41:07						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-183											RQ
393.8025	41:31	41:31	-1	1.124	580	202	1	2	202		
	Empc Correction				19	8	1	2	8		
395.7995	41:31	41:31	-1	1.124	19	8	1	2	8	30.53(0.89-1.21)	
PCB-185 (C183)											RQ
393.8025	41:31	41:31	-1	1.124	580	202	1	2	202		
	Empc Correction				19	8	1	2	8		
395.7995	41:31	41:31	-1	1.124	19	8	1	2	8	30.53(0.89-1.21)	
PCB-174											
393.8025	41:45						1	2			
395.7995	41:45						1	2			
PCB-177											
393.8025	42:11						1	2			
395.7995	42:11						1	2			
PCB-181											
393.8025	42:34						1	2			
395.7995	42:34						1	2			
PCB-171											
393.8025	42:48						1	2			
395.7995	42:48						1	2			
PCB-173 (C171)											
393.8025	42:48						1	2			
395.7995	42:48						1	2			
PCB-172											
393.8025	44:26						1	2			
395.7995	44:26						1	2			
PCB-192											
393.8025	44:42						1	2			
395.7995	44:42						1	2			
PCB-180											RQ
393.8025	45:06	45:03	2	0.912	714	322	1	2	322		
	Empc Correction				104	56	1	2	56		
395.7995	45:04	45:03	1	0.912	100	54	1	2	54	7.14(0.89-1.21)	
PCB-193 (C180)											RQ
393.8025	45:06	45:03	2	0.912	714	322	1	2	322		
	Empc Correction				104	56	1	2	56		
395.7995	45:04	45:03	1	0.912	100	54	1	2	54	7.14(0.89-1.21)	
PCB-191											
393.8025	45:27						1	2			
395.7995	45:27						1	2			
PCB-170											RQ
393.8025	46:21	46:20	1	0.938	180	91	1	2	91		
	Empc Correction				124	46	1	2	46		
395.7995	46:20	46:20	-1	0.937	119	44	1	2	44	1.51(0.89-1.21)	
PCB-190											
393.8025	46:51						1	2			
395.7995	46:51						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-189											
393.8025	49:27						38	95			
395.7995	49:27						15	37			
PCB-202L											
439.8038	42:18	42:17	0	0.821	1428855	264505	61	152	4336		
441.8008	42:18	42:17	0	0.821	1527578	289859	14	35	20704	0.94(0.76-1.02)	
PCB-194L											
439.8038	51:32	51:32	0		2170786	399898	151	377	2648		
441.8008	51:32	51:32	0		2392584	421404	125	312	3371	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:00	51:59	0	1.009	2207630	408905	151	377	2708		
441.8008	52:00	51:59	0	1.009	2478146	445215	125	312	3562	0.89(0.76-1.02)	
PCB-202											
427.7635	42:19						5	12			
429.7606	42:19						3	7			
PCB-201											
427.7635	43:14						5	12			
429.7606	43:14						3	7			
PCB-204											
427.7635	43:55						5	12			
429.7606	43:55						3	7			
PCB-197											
427.7635	44:08						5	12			
429.7606	44:08						3	7			
PCB-200											
427.7635	44:15						5	12			
429.7606	44:15						3	7			
PCB-198											
427.7635	47:02						5	12			
429.7606	47:02						3	7			
PCB-199 (C198)											
427.7635	47:02						5	12			
429.7606	47:02						3	7			
PCB-196											
427.7635	47:42						5	12			
429.7606	47:42						3	7			
PCB-203											
427.7635	47:54						5	12			
429.7606	47:54						3	7			
PCB-195											
427.7635	49:12						21	52			
429.7606	49:12						6	15			
PCB-194											
427.7635	51:33	51:33	0	0.991	565	292	21	52	14		RQ
	Empc Correction				369	168	21	52	8		
429.7606	51:36	51:33	2	0.992	415	189	6	15	32	1.36(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205											
427.7635	52:02						21	52			
429.7606	52:02						6	15			
PCB-208L											
473.7648	48:58	48:57	0	0.950	1823187	343367	641	1602	536		
475.7619	48:58	48:57	0	0.950	2247438	416860	505	1262	825	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:45	53:44	0	1.043	1330122	234159	641	1602	365		
475.7619	53:45	53:44	0	1.043	1648886	298046	505	1262	590	0.81(0.65-0.89)	
PCB-208											
461.7246	48:58						297	742			
463.7216	48:58						382	955			
PCB-207											
461.7246	49:54						297	742			
463.7216	49:54						382	955			
PCB-206											
461.7246	53:47						297	742			
463.7216	53:47						382	955			
PCB-209L											
507.7258	55:22	55:21	0	1.074	1323646	231636	107	267	2165		
509.7229	55:21	55:21	0	1.074	1840699	324355	57	142	5690	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:24						2	5			
497.6826	55:24						12	30			

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d

Injection Date: 12-Jun-2024 14:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED

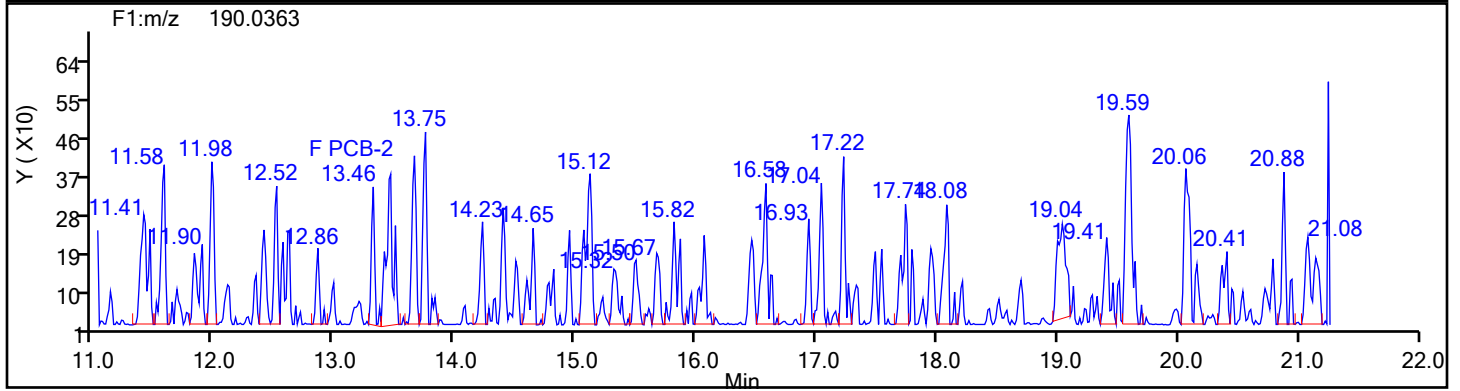
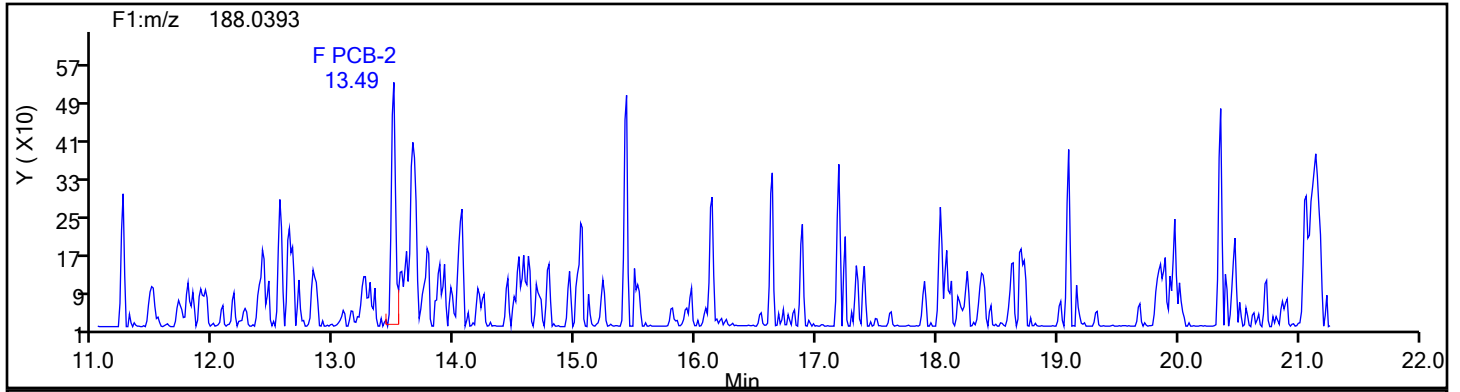
Worklist#: 87571

Sample Line#: 6

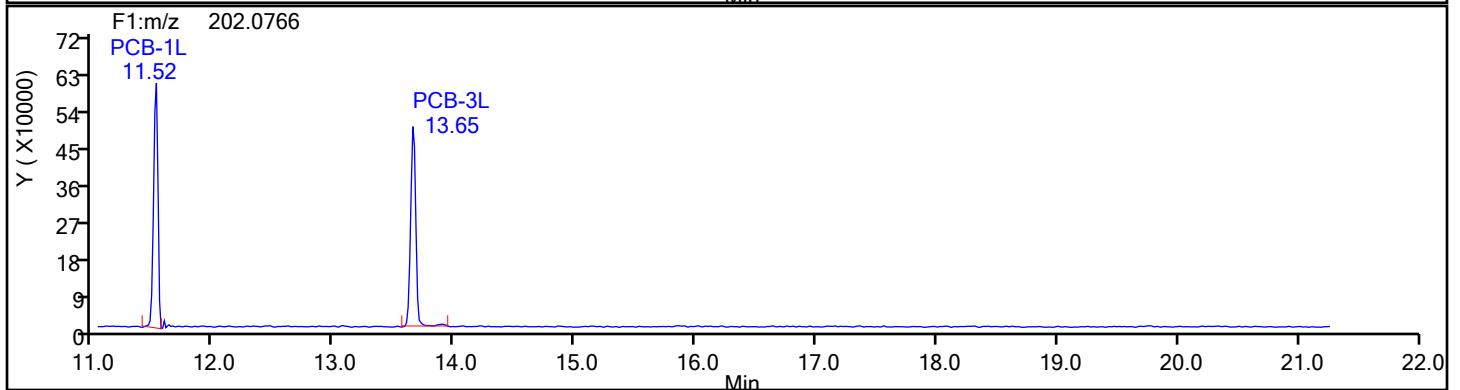
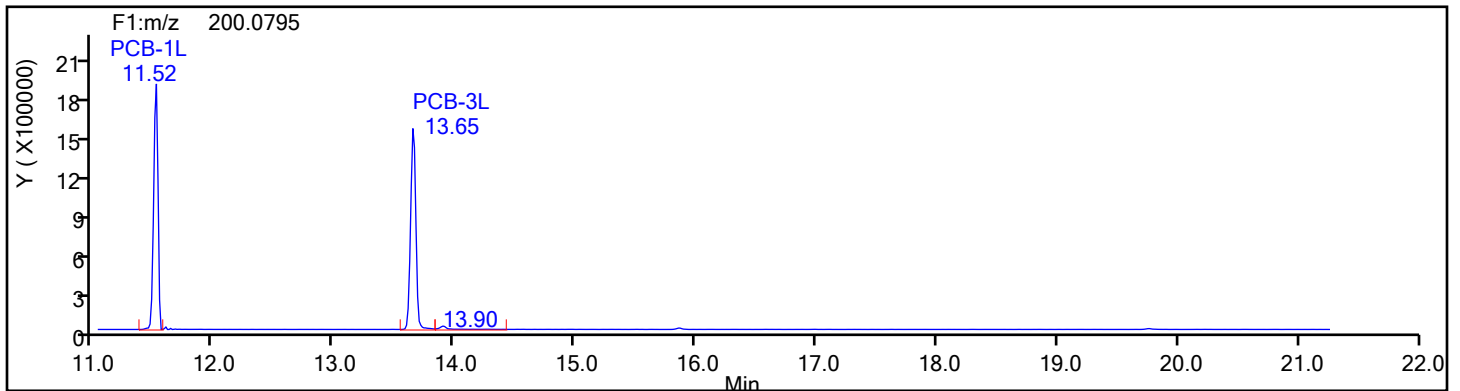
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1

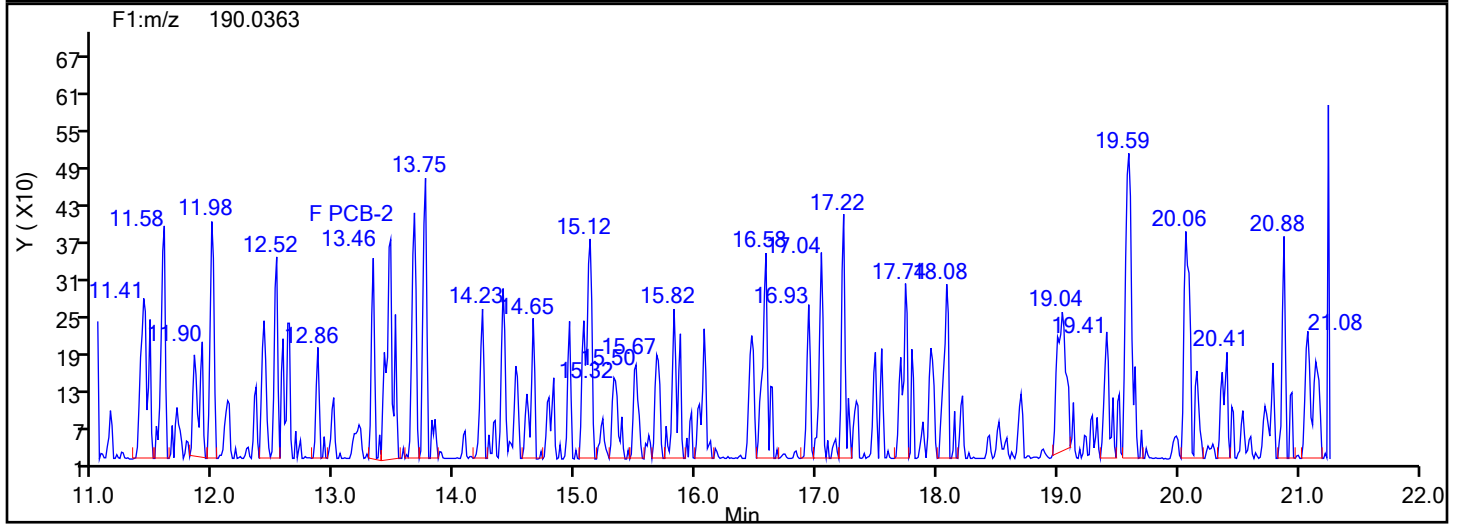
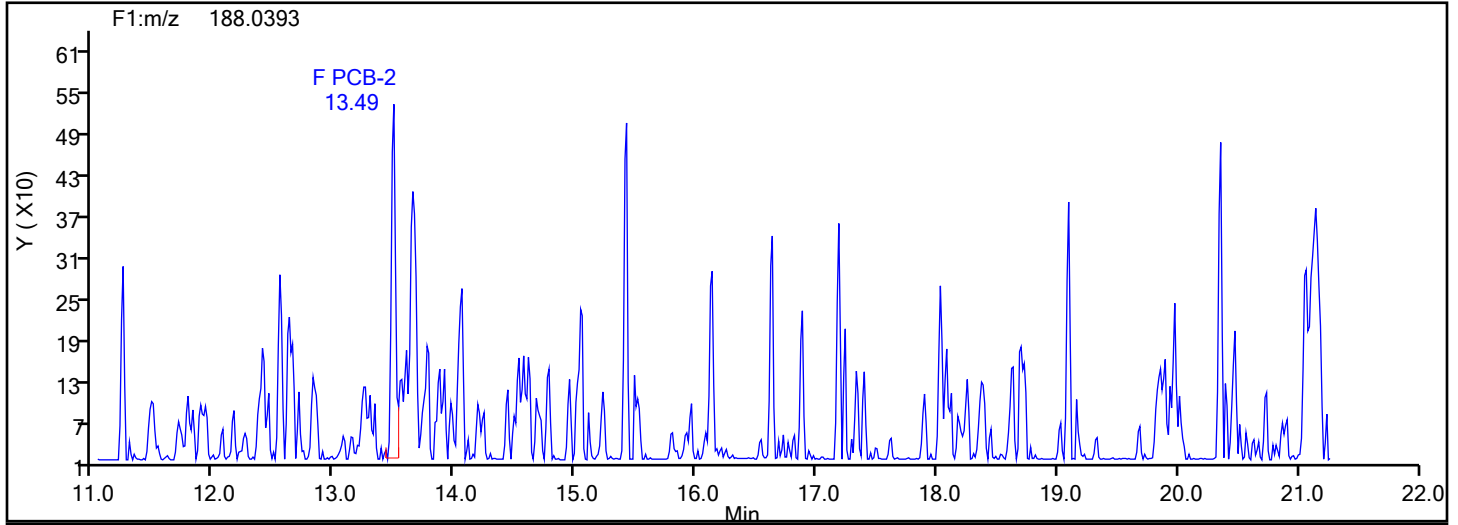


MoPCB F1 Standards

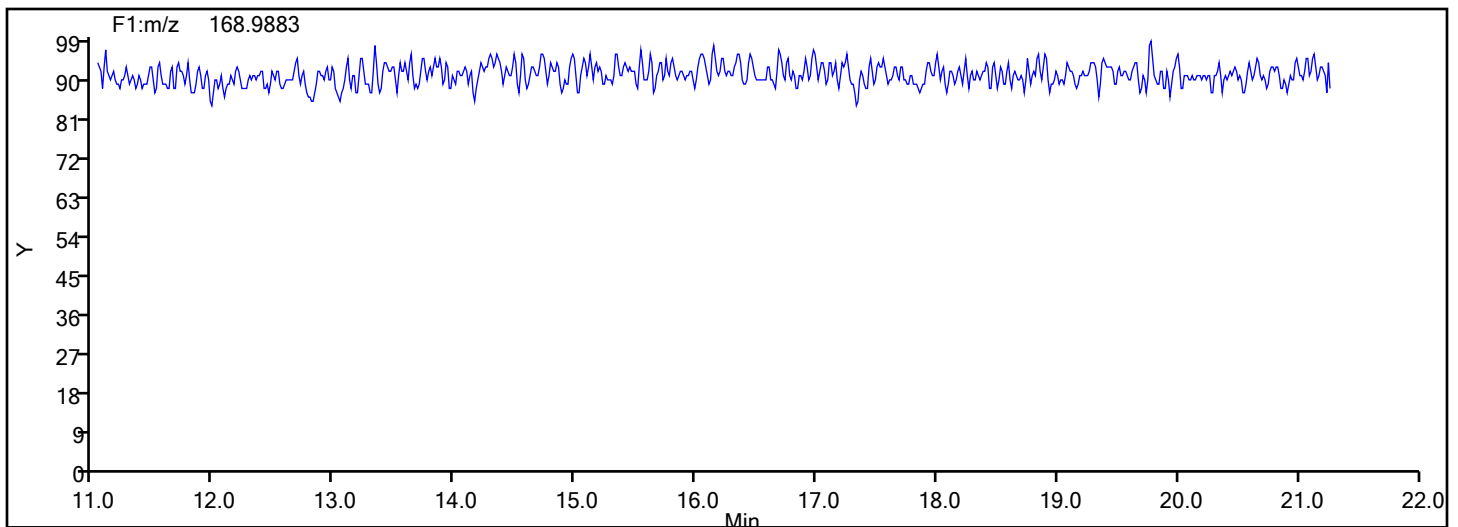


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d
Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

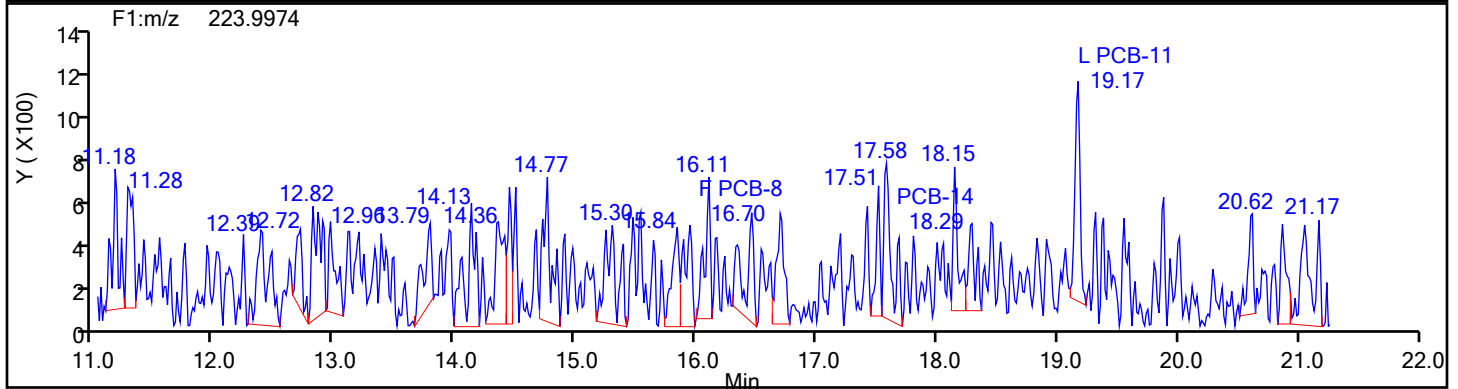
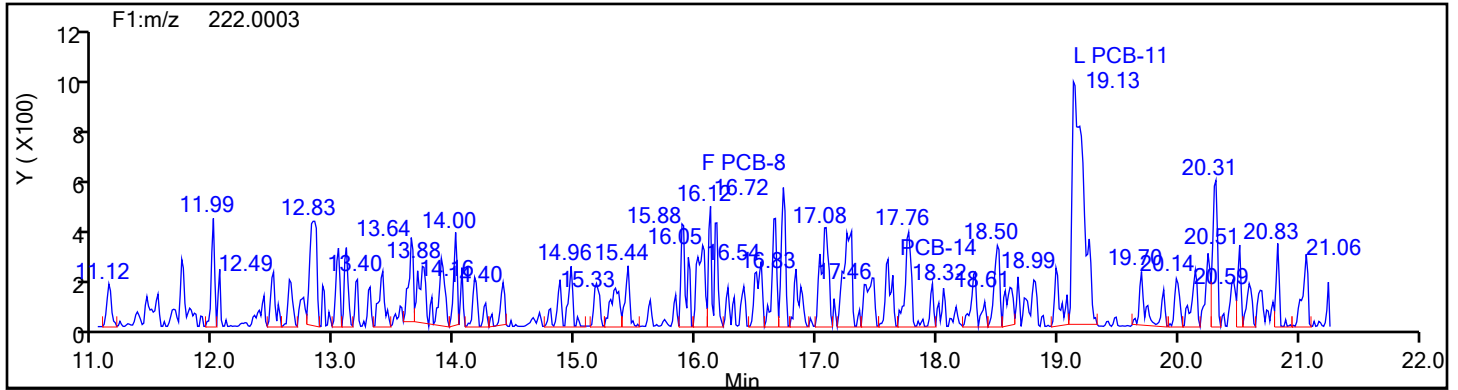


MoPCB F1 Lock Mass

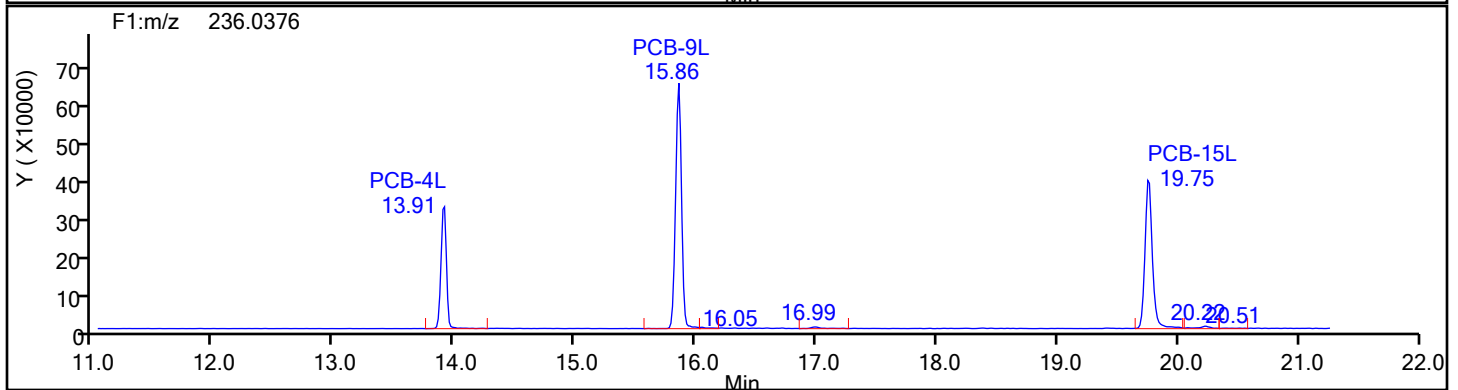
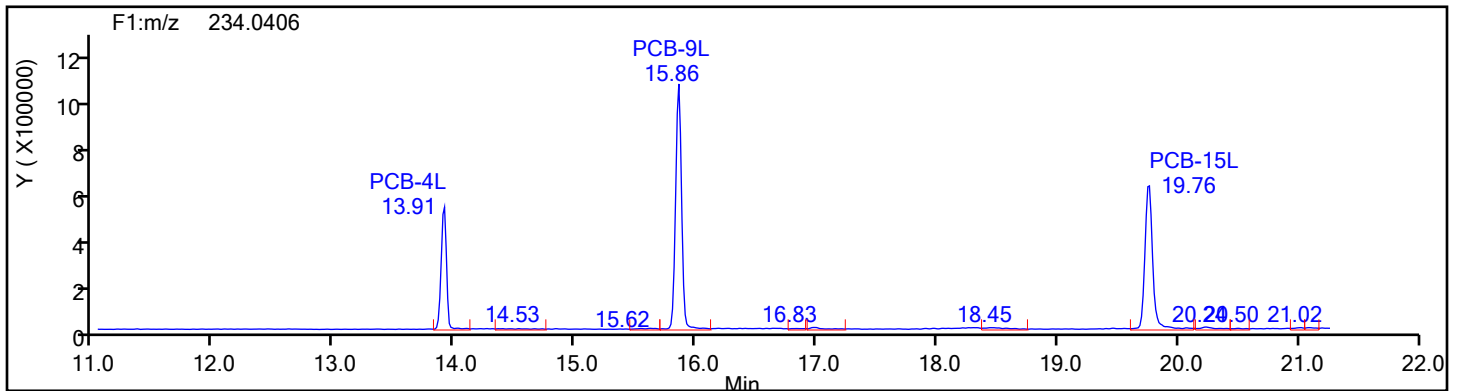


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d
Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

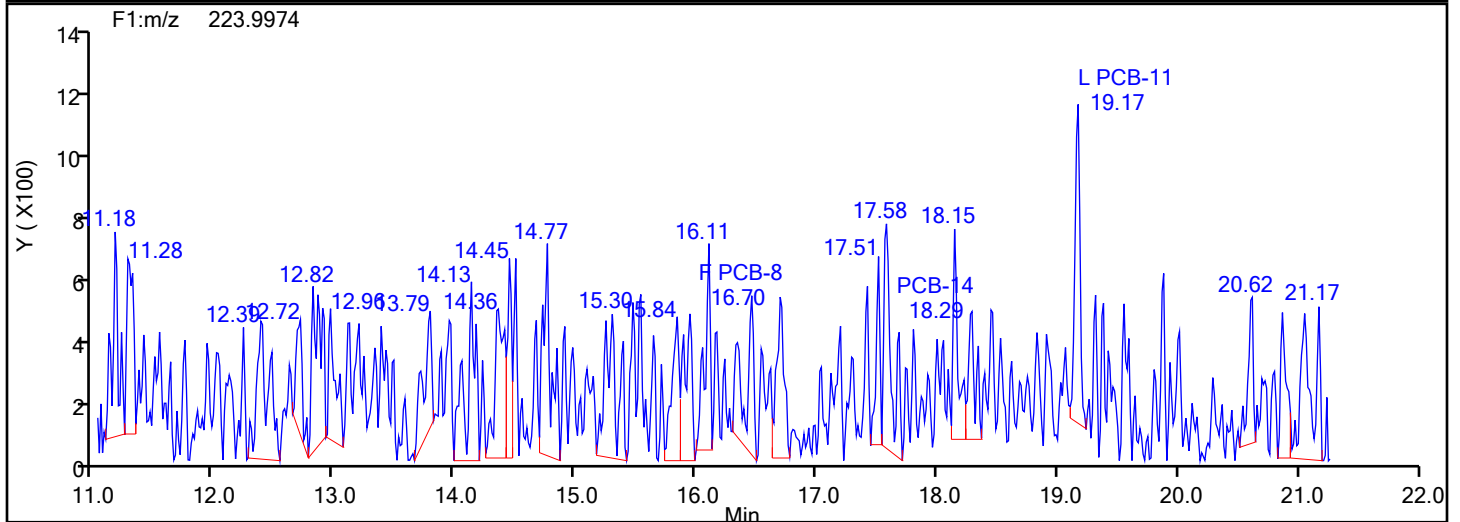
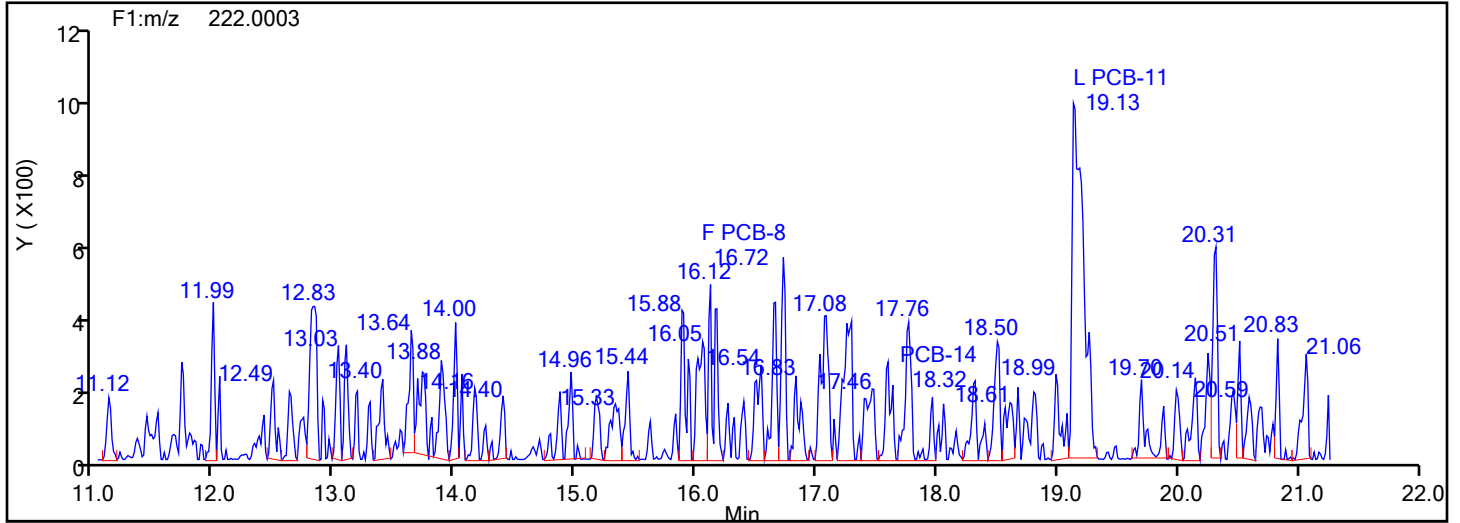


DiPCB F1 Standards

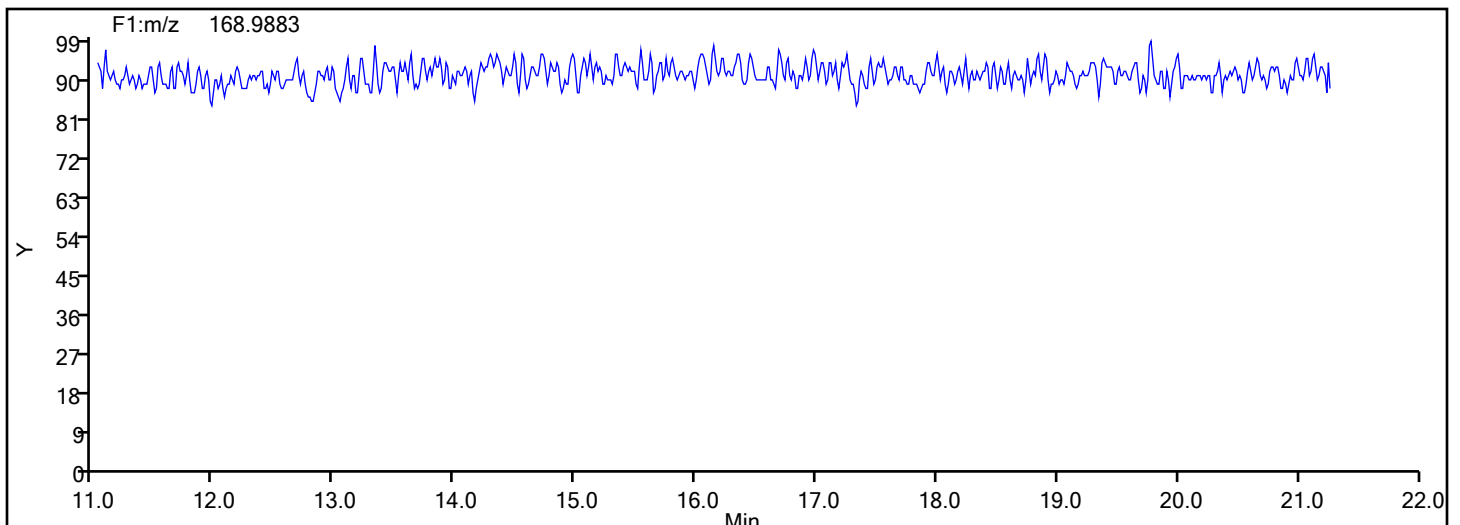


Eurofins Knoxville

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Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

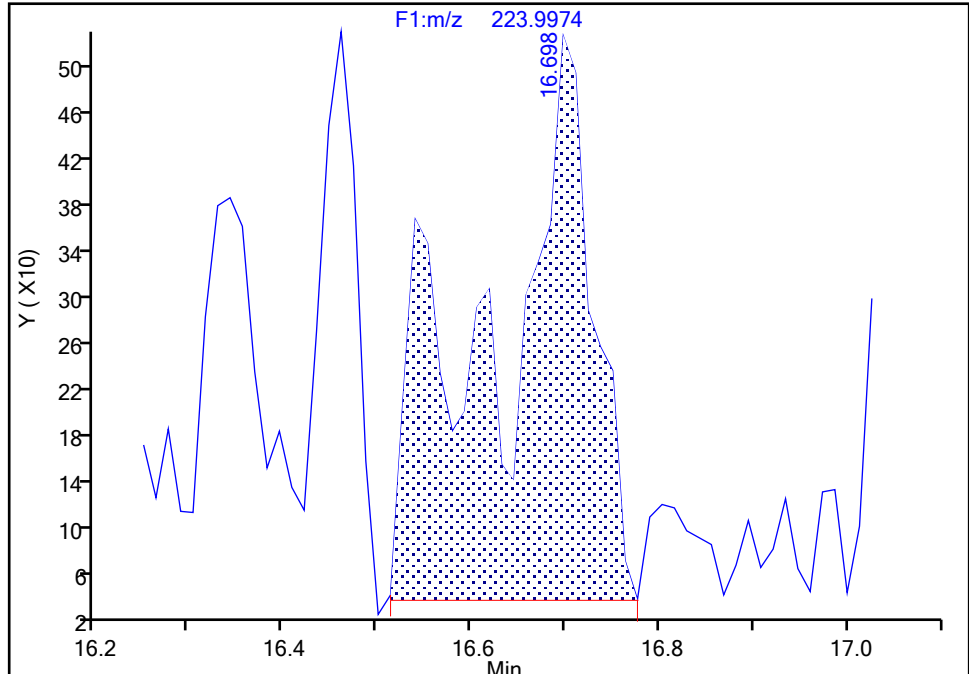
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Injection Date: 12-Jun-2024 14:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-14-C Lab Sample ID: 140-36689-14
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 2

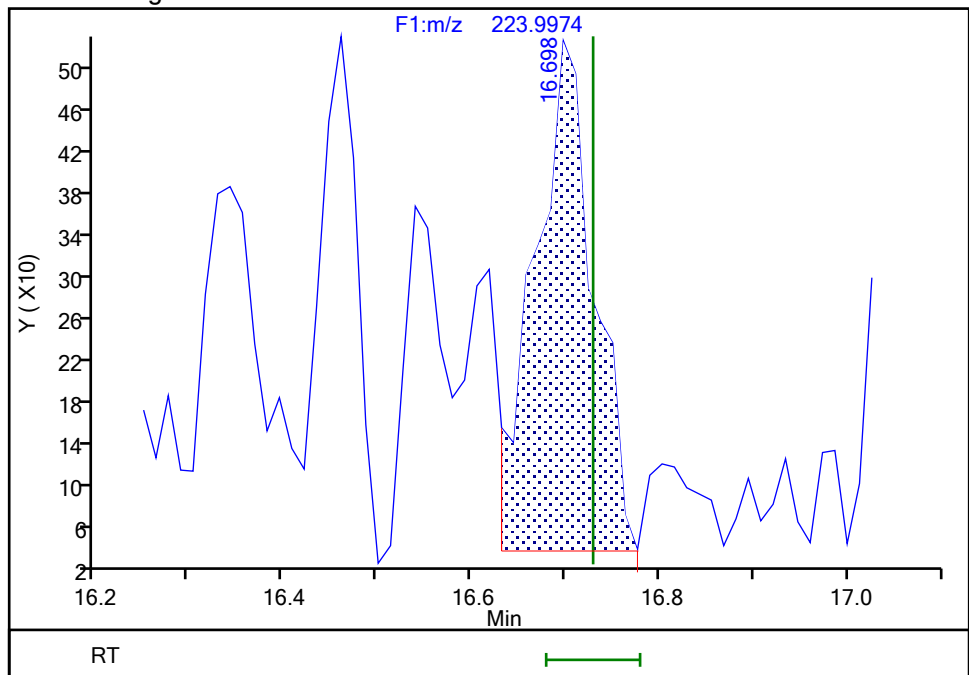
RT: 16.70
Area: 3646
Amount: 0.087139
Amount Units: pg/ul

Processing Integration Results



RT: 16.70
Area: 2156
Amount: 0.060797
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 17:53:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

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Injection Date: 12-Jun-2024 14:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED

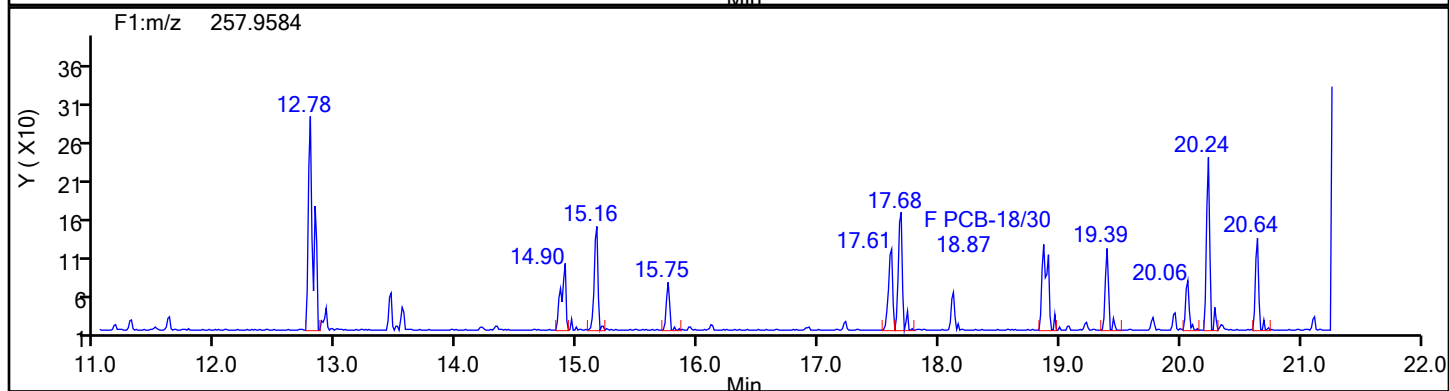
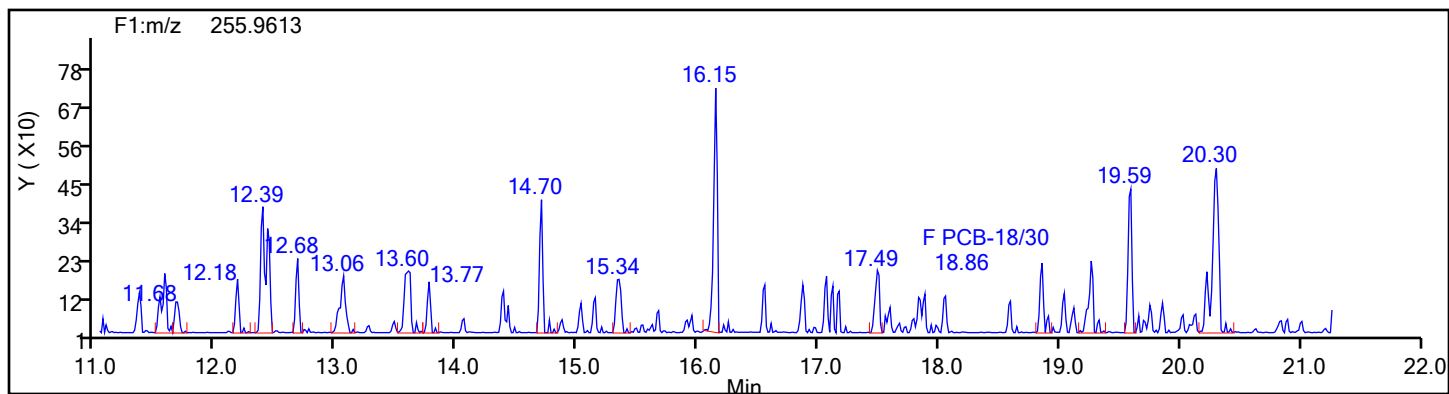
Worklist#: 87571

Sample Line#: 6

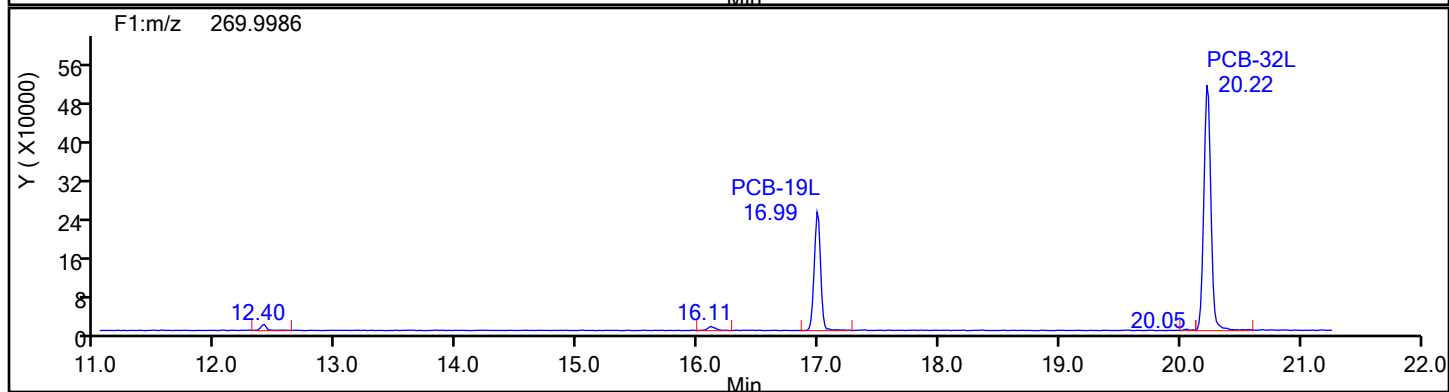
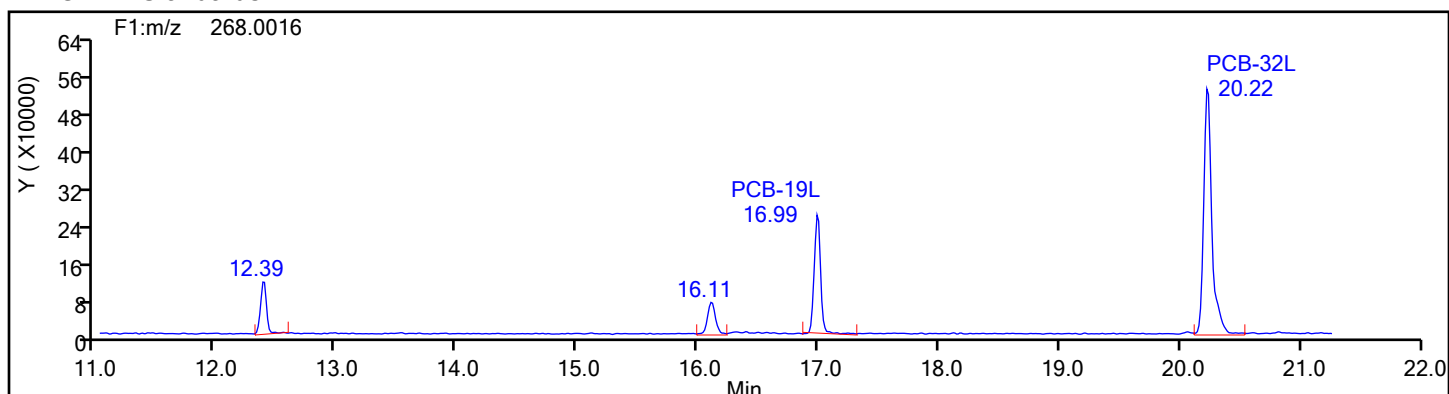
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

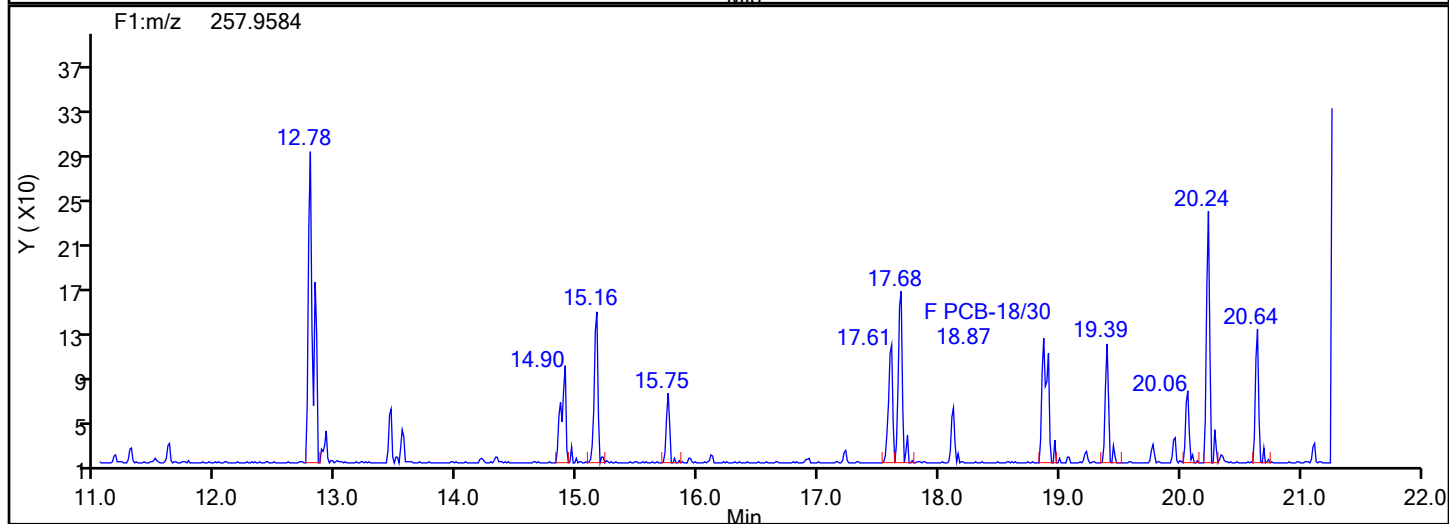
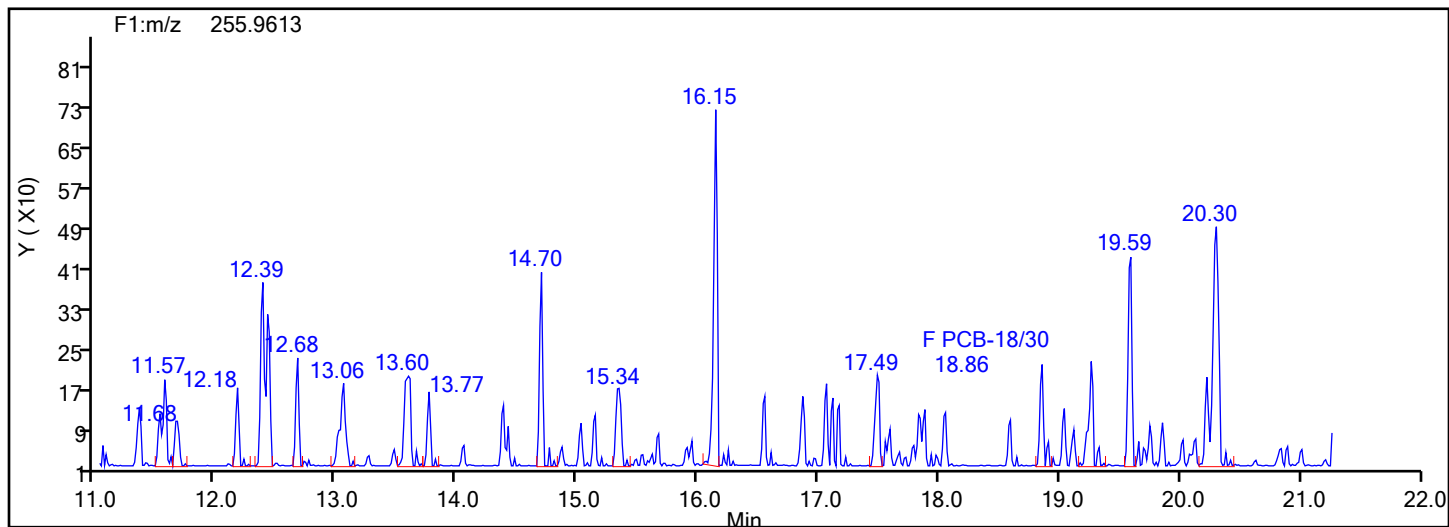
Limit Group: HR - EPA 23 PCB ICAL

Client ID: M23 MEDIA CHECK A-2171 FILTER, A-2170 XAD COMBINED

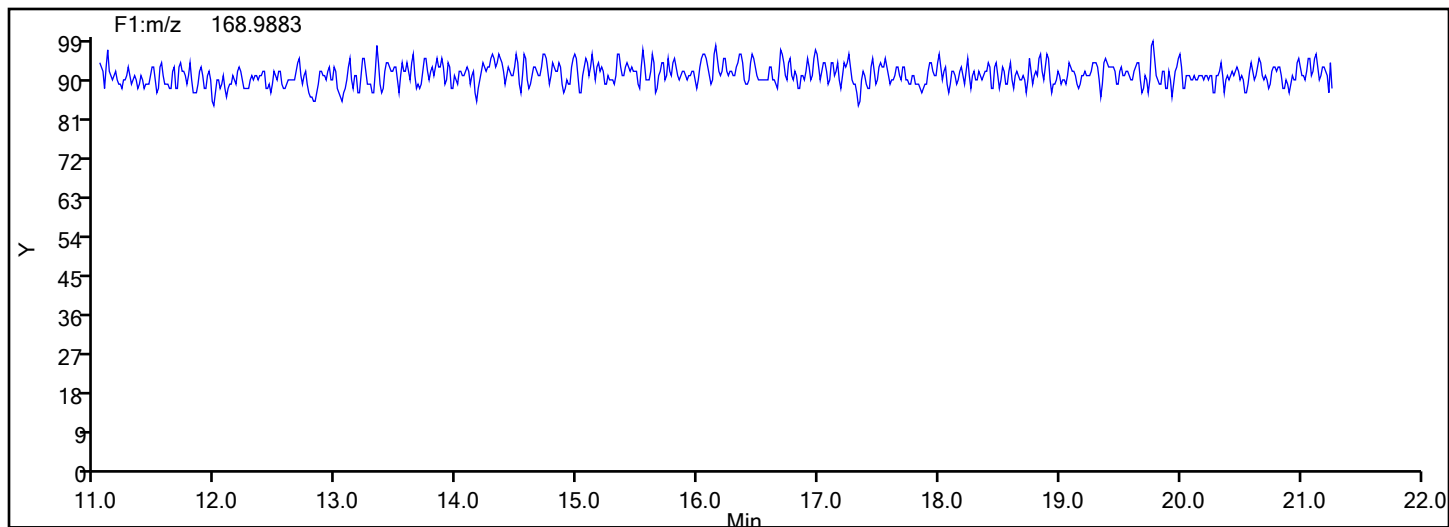
Sample Line#: 6

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d

Injection Date: 12-Jun-2024 14:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED

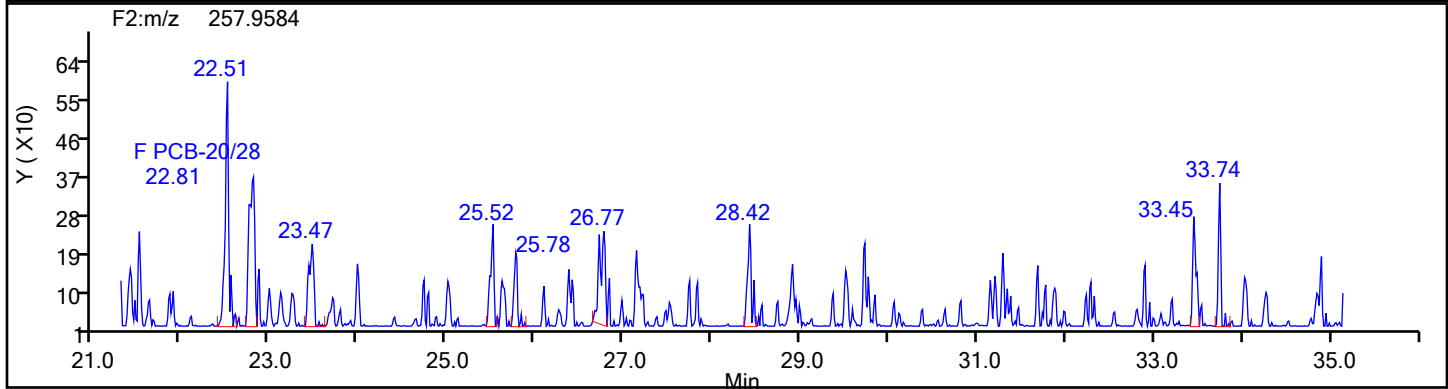
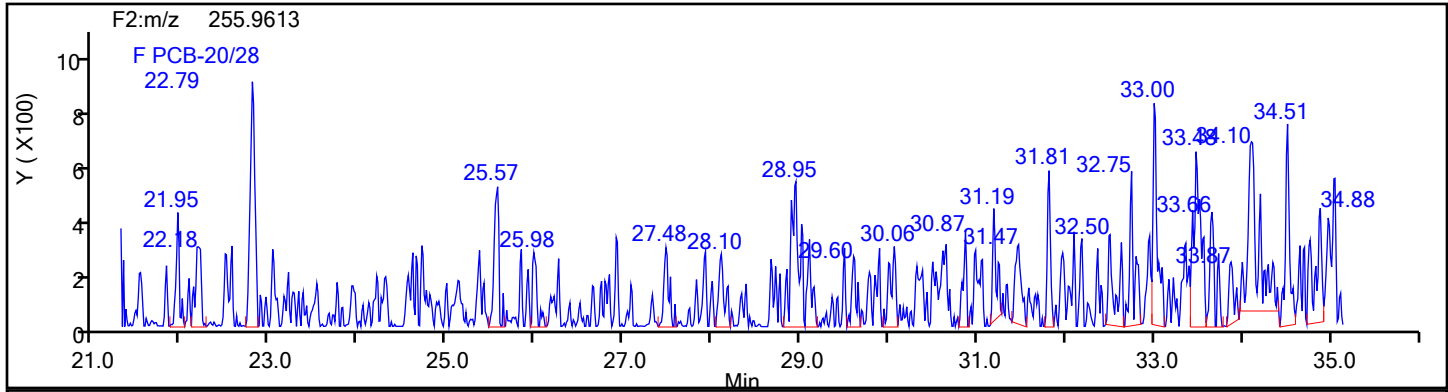
Worklist#: 87571

Sample Line#: 6

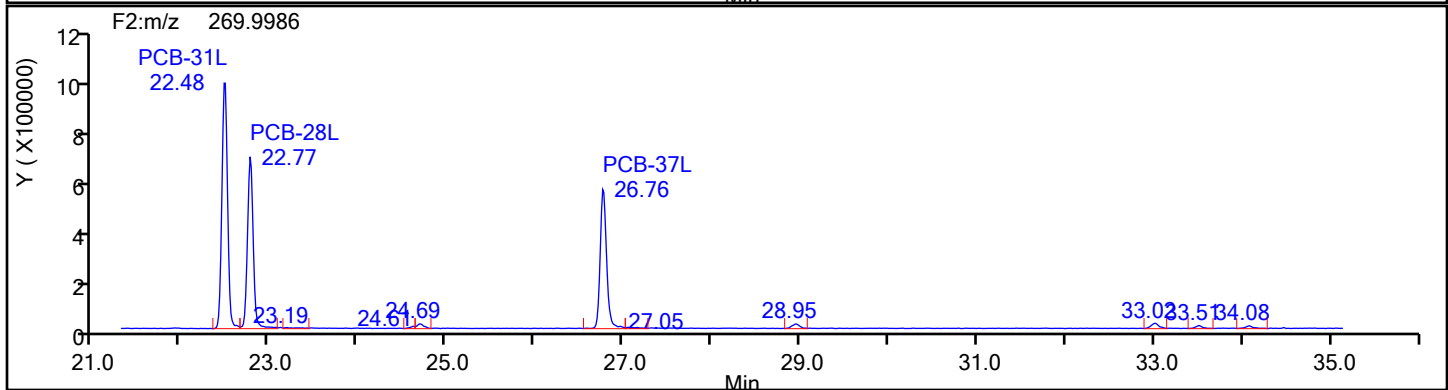
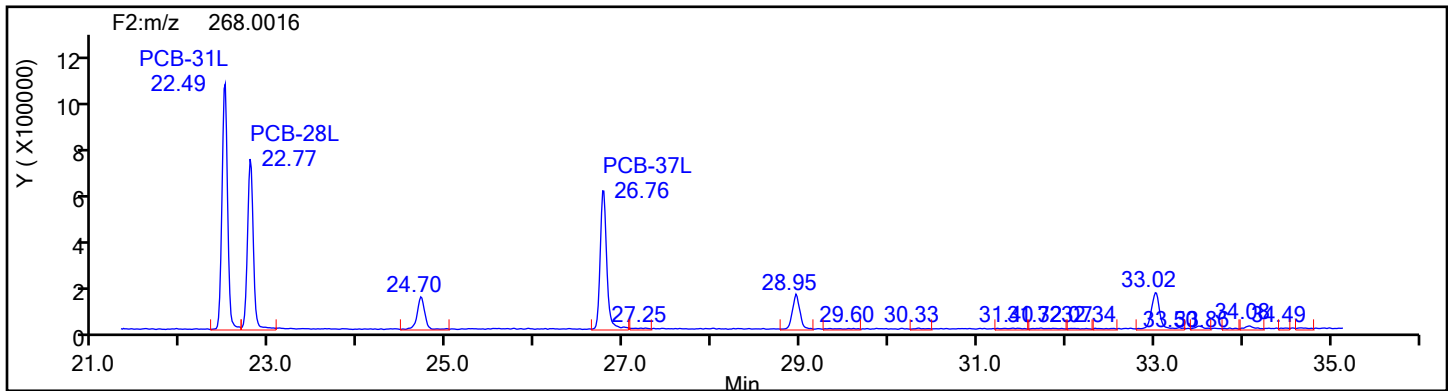
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2

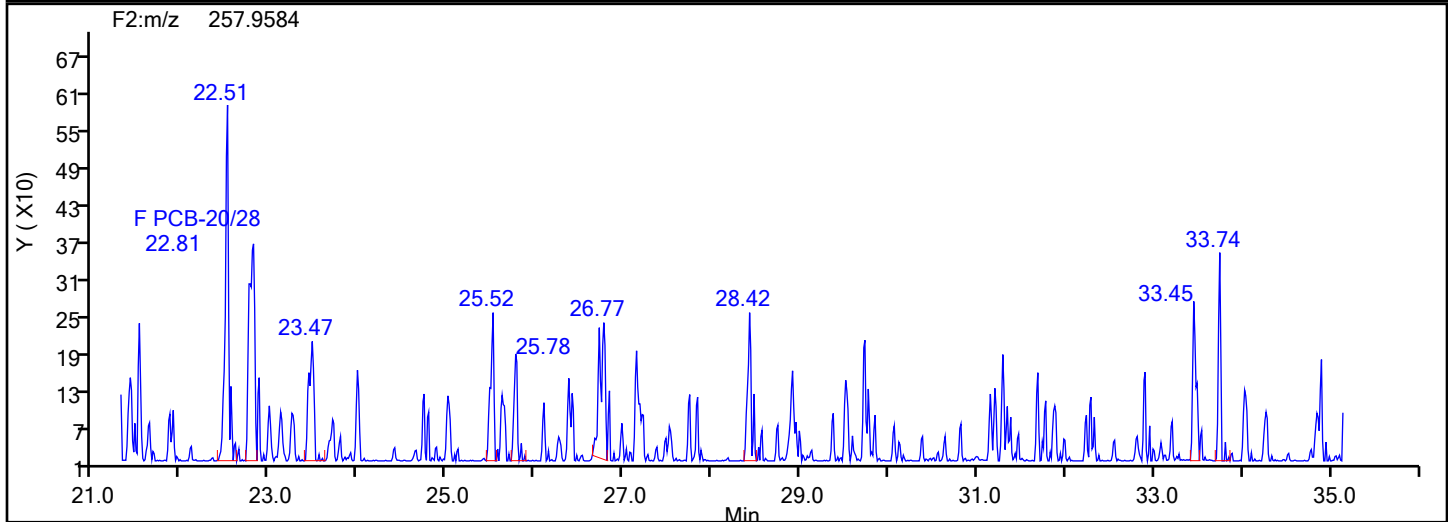
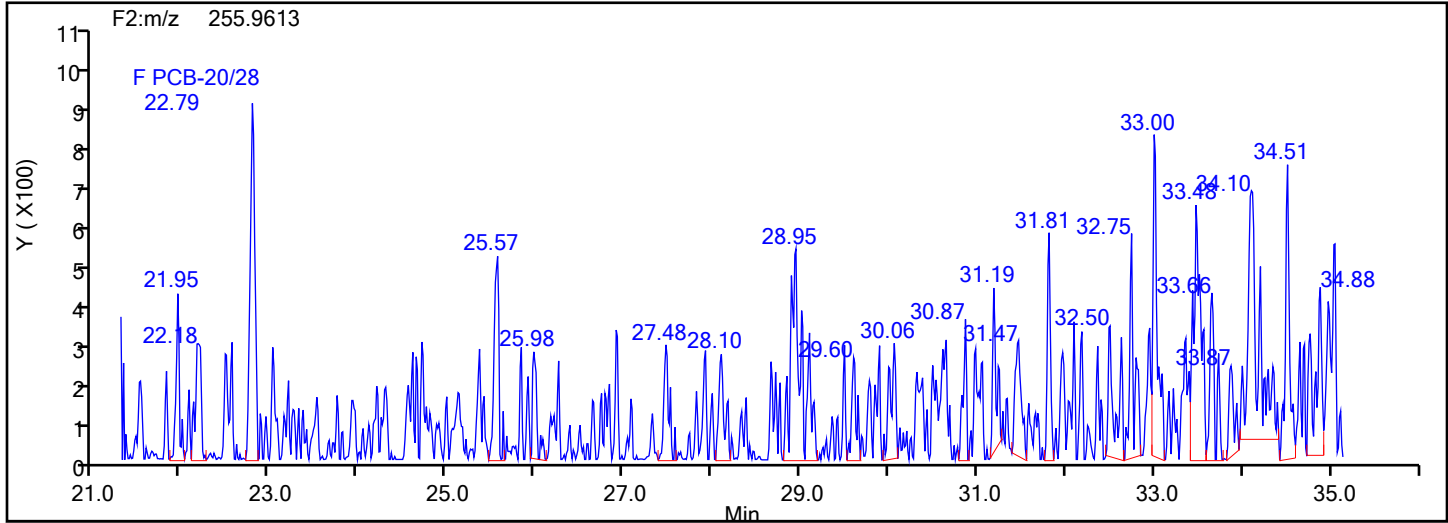


TriPCB F2 Standards

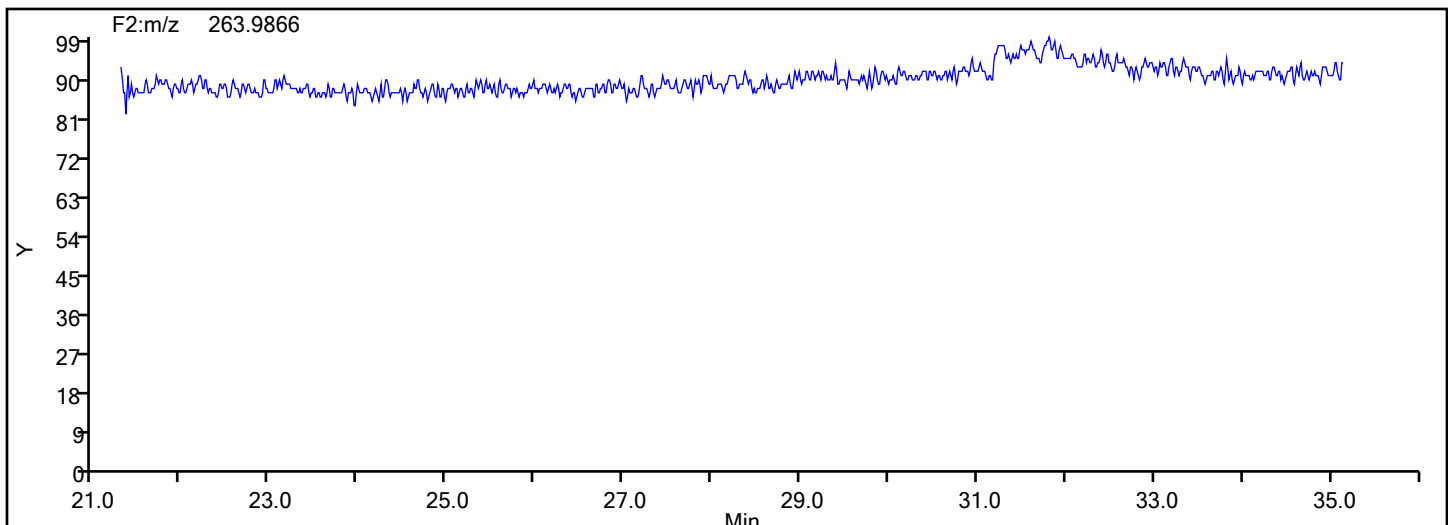


Eurofins Knoxville

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Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d

Injection Date: 12-Jun-2024 14:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED

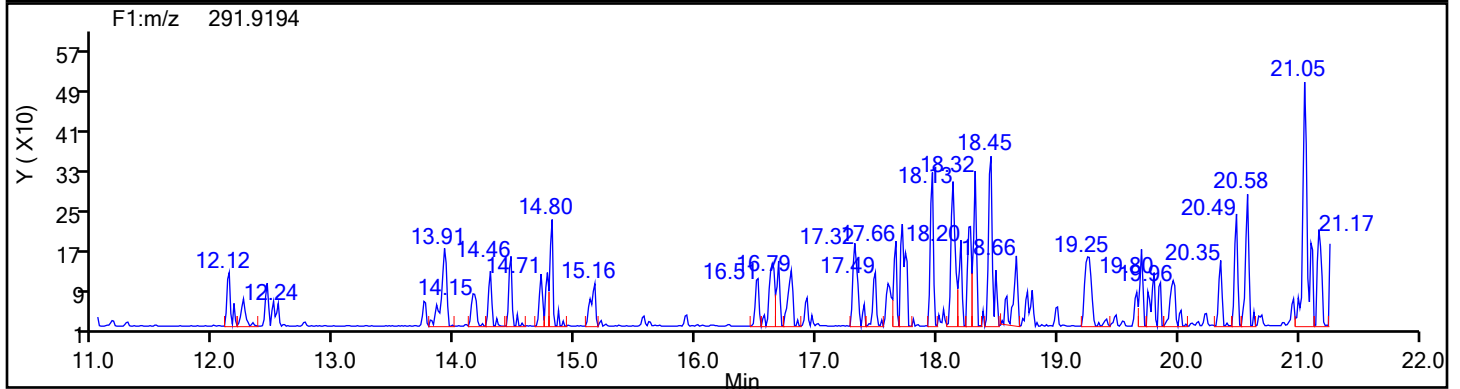
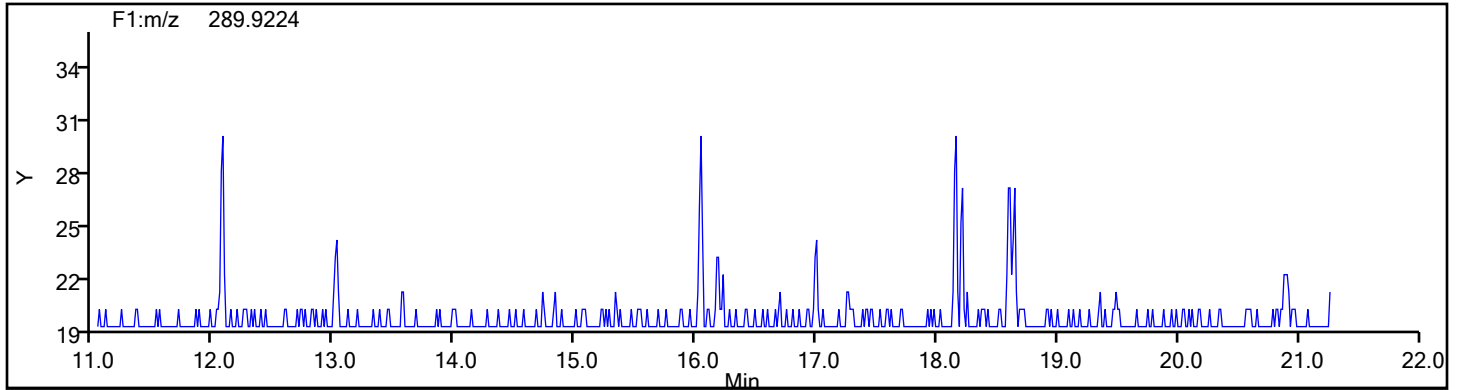
Worklist#: 87571

Sample Line#: 6

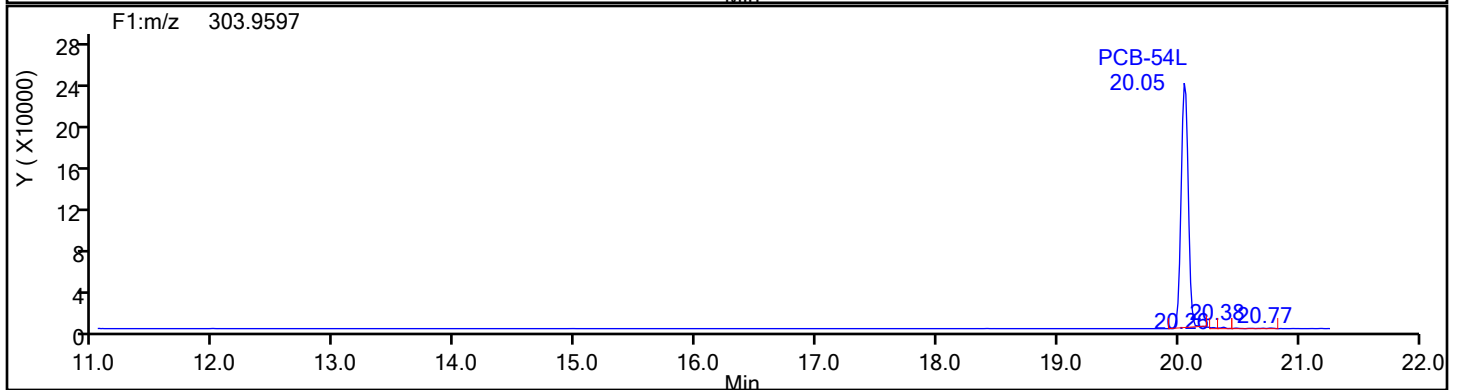
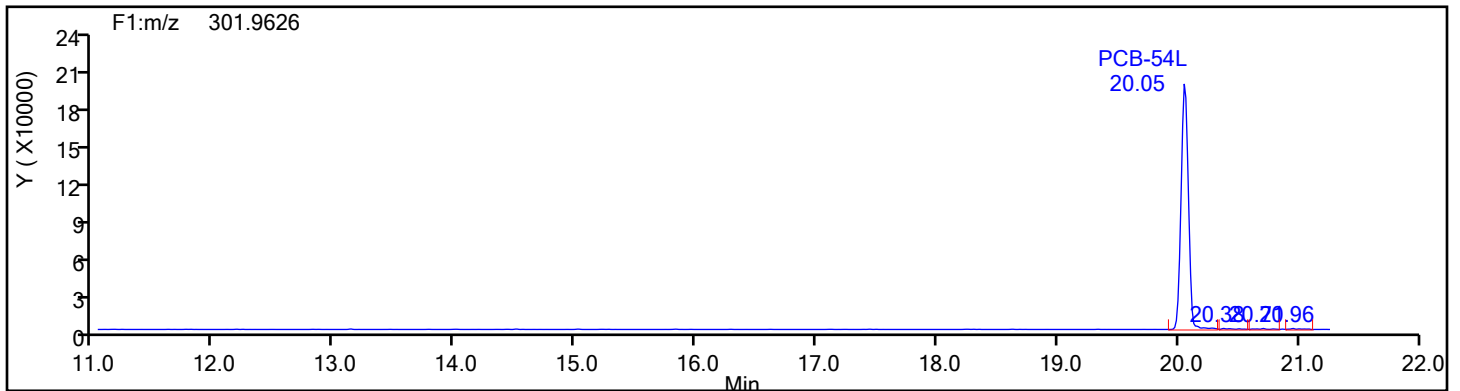
Column Type: SPB-Octyl

Column Dia: 0.25 mm

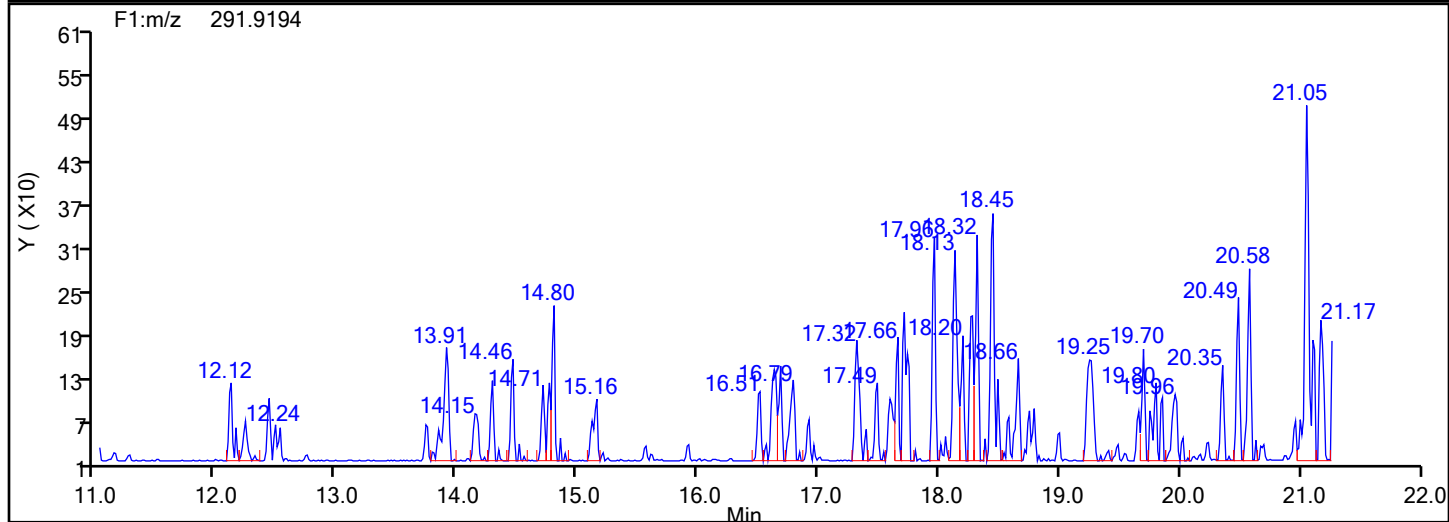
TePCB F1



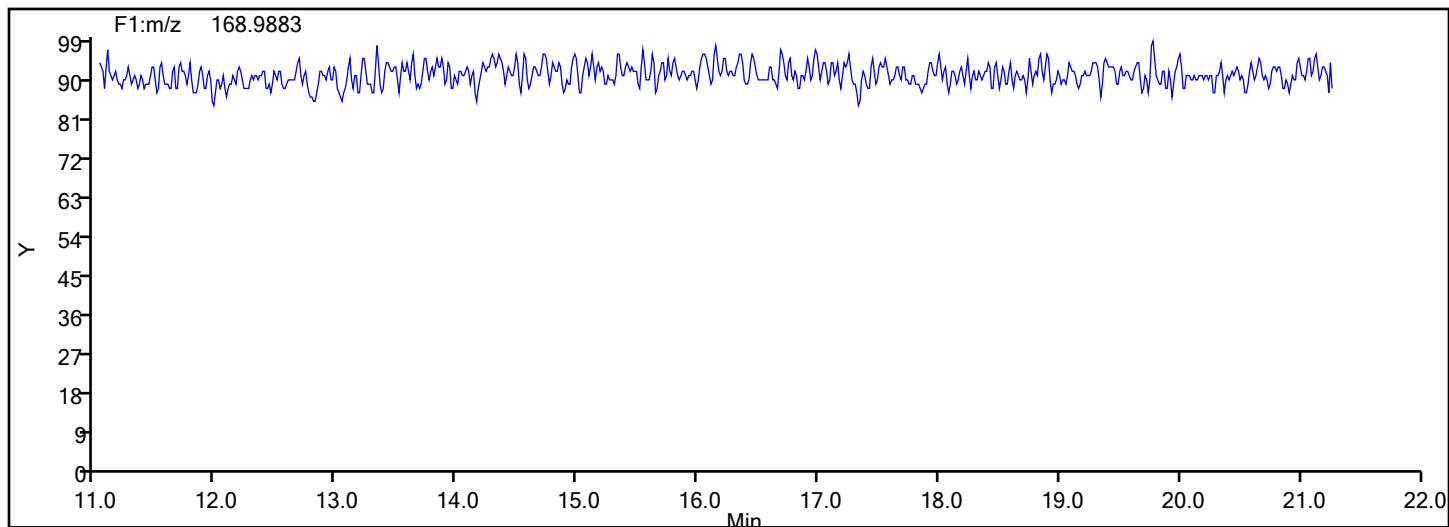
TePCB F1 Standards



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d		
Injection Date:	12-Jun-2024 14:09:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED		
Worklist#:	87571	Sample Line#:	6
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TePCB F1			



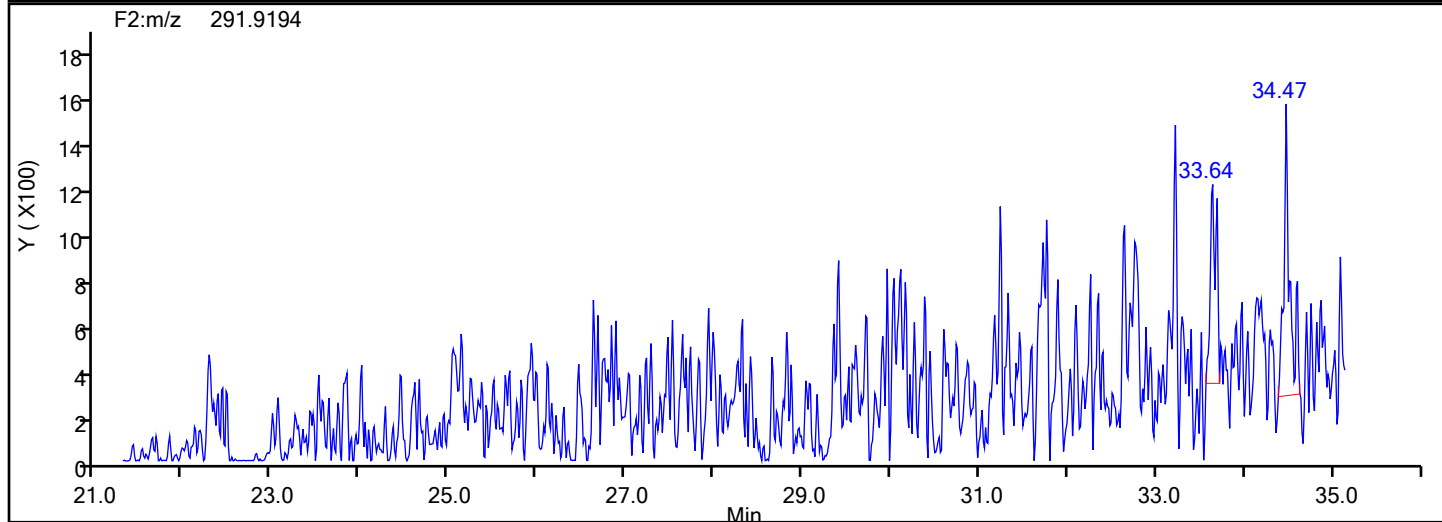
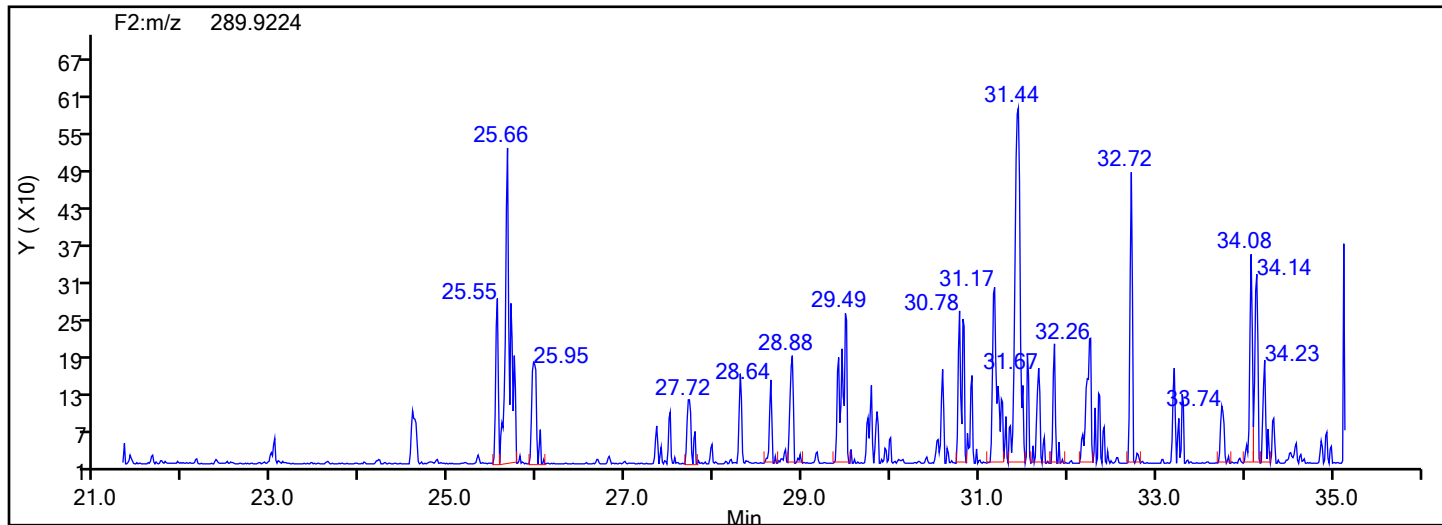
TePCB F1 Lock Mass



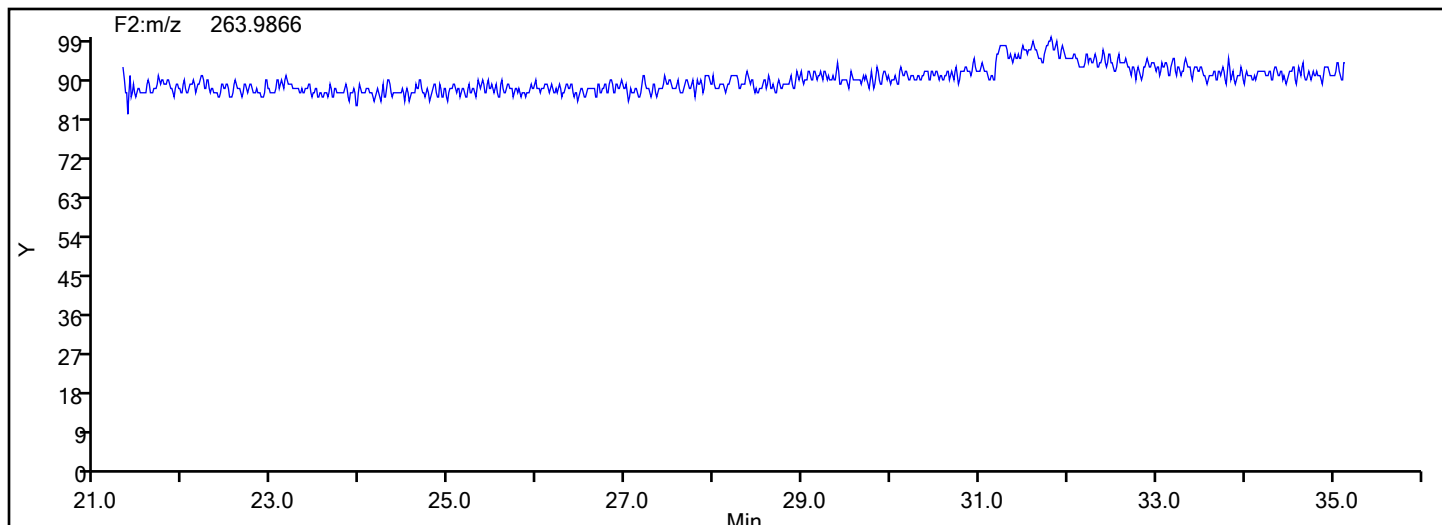
Column Dia: 0.25 mm

Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d		
Injection Date:	12-Jun-2024 14:09:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED		
Worklist#:	87571	Sample Line#:	6
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TePCB F2			



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d

Injection Date: 12-Jun-2024 14:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED

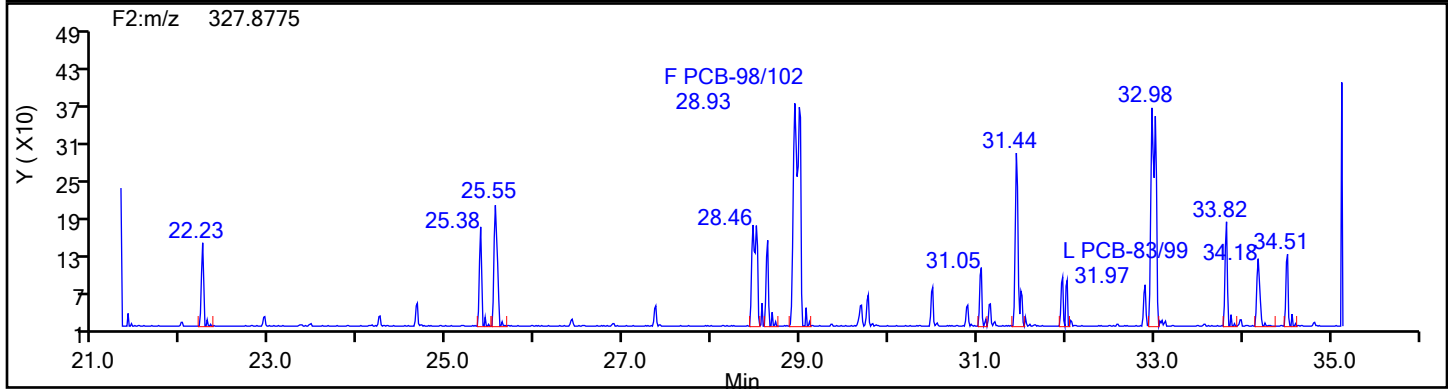
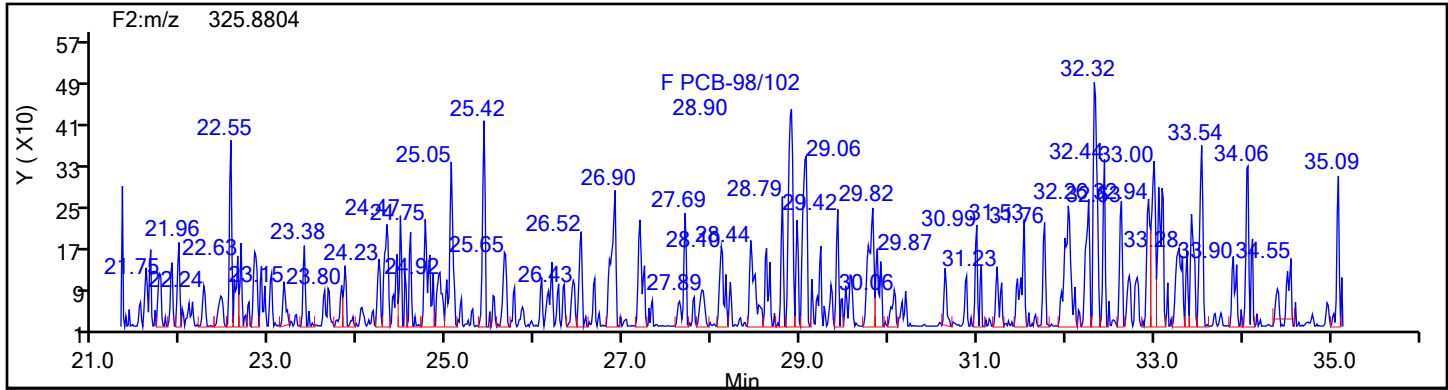
Worklist#: 87571

Sample Line#: 6

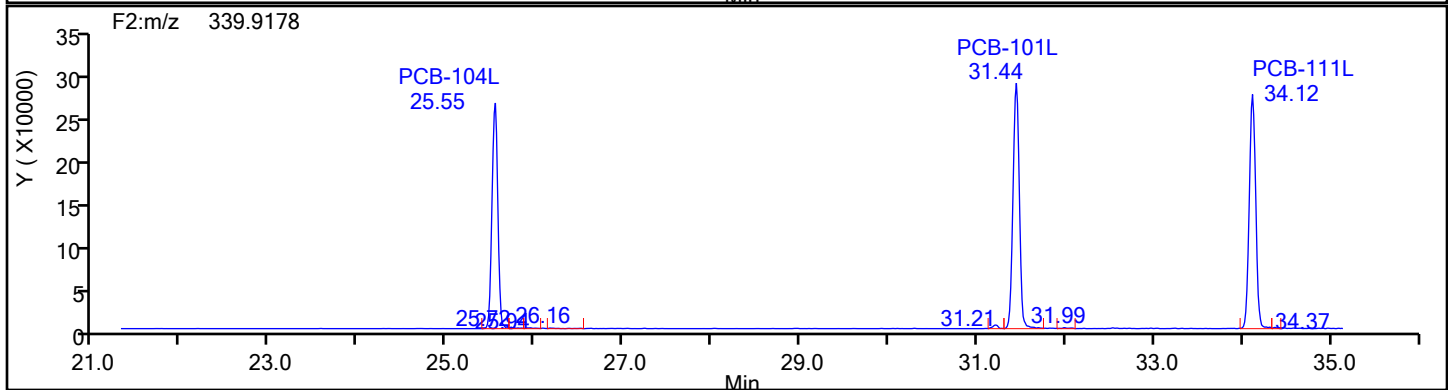
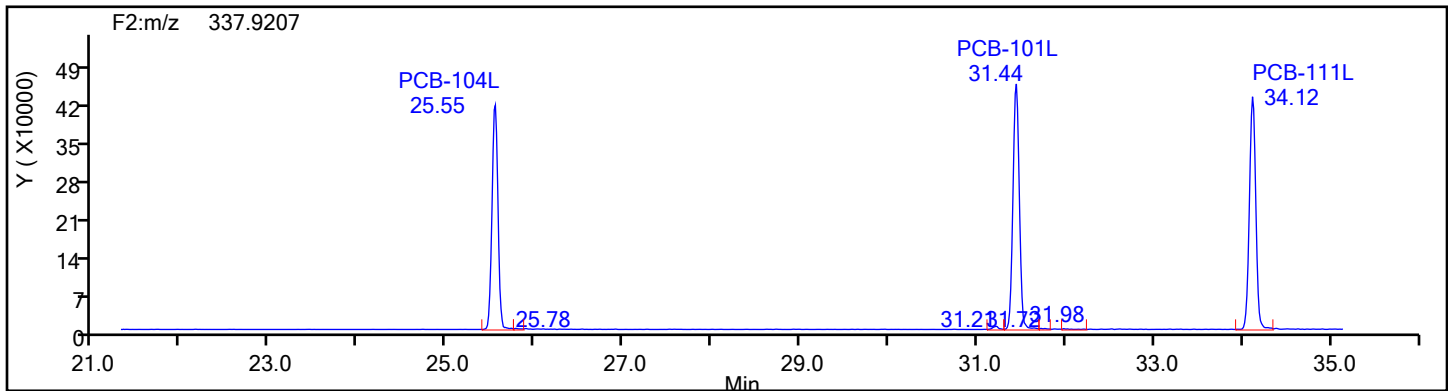
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2

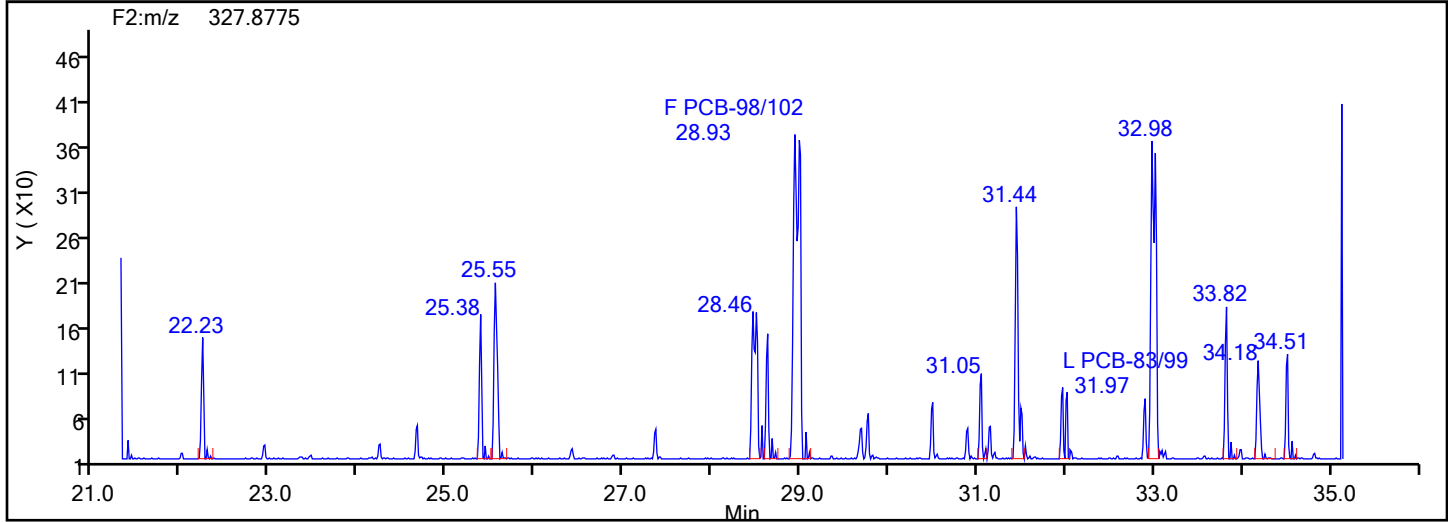
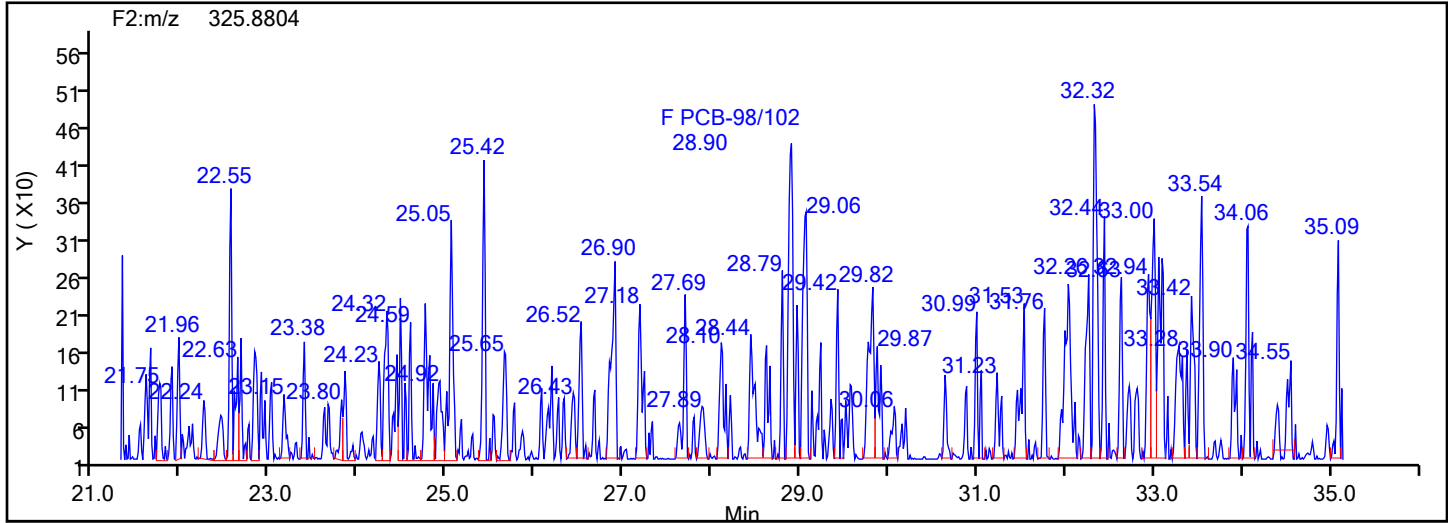


PePCB F2 Standards

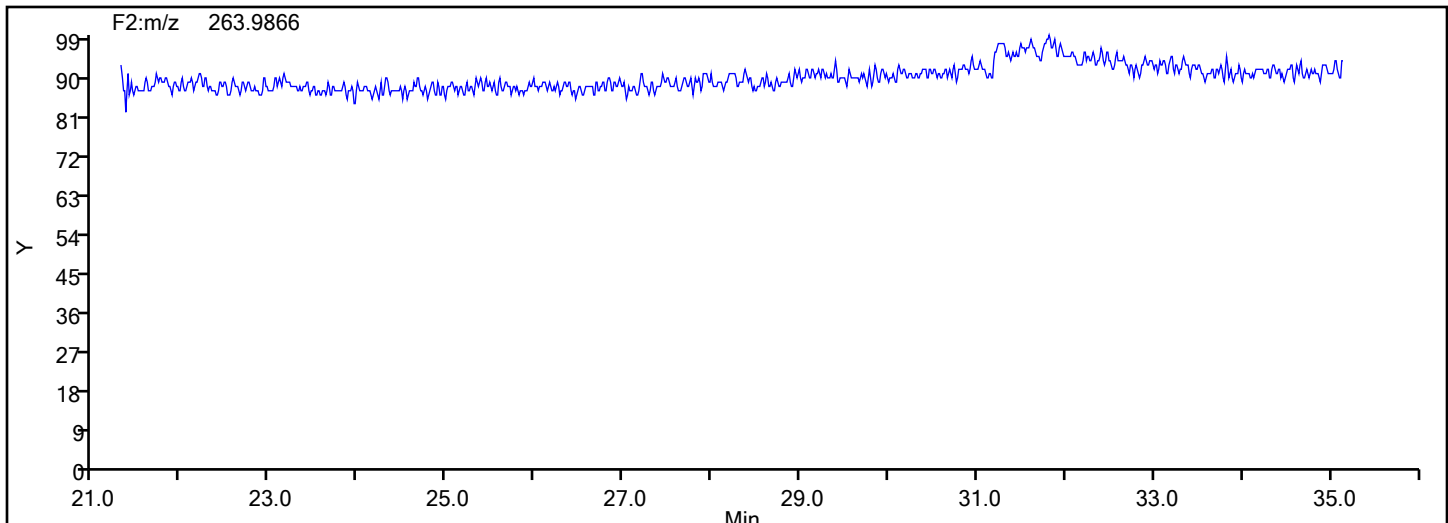


Eurofins Knoxville

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Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d

Injection Date: 12-Jun-2024 14:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED

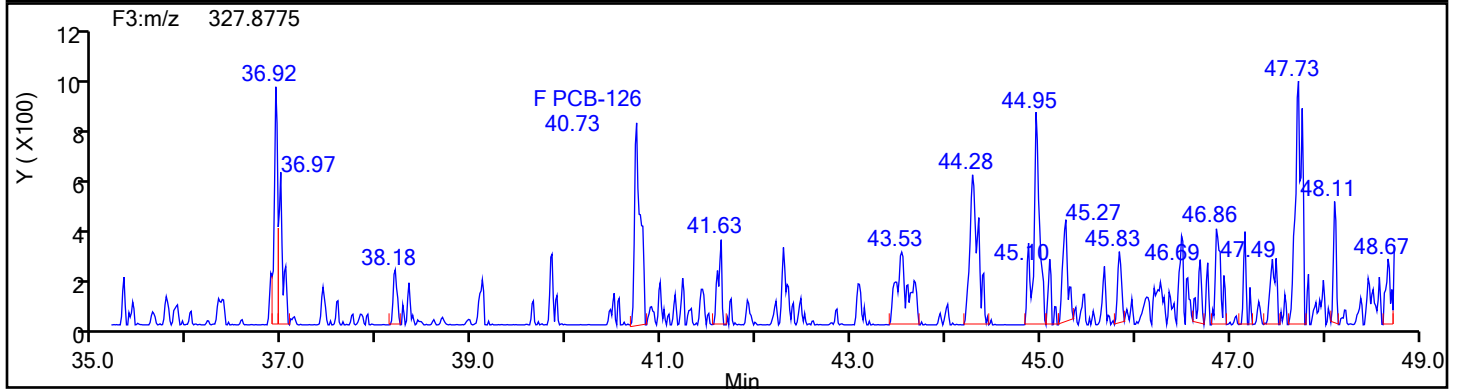
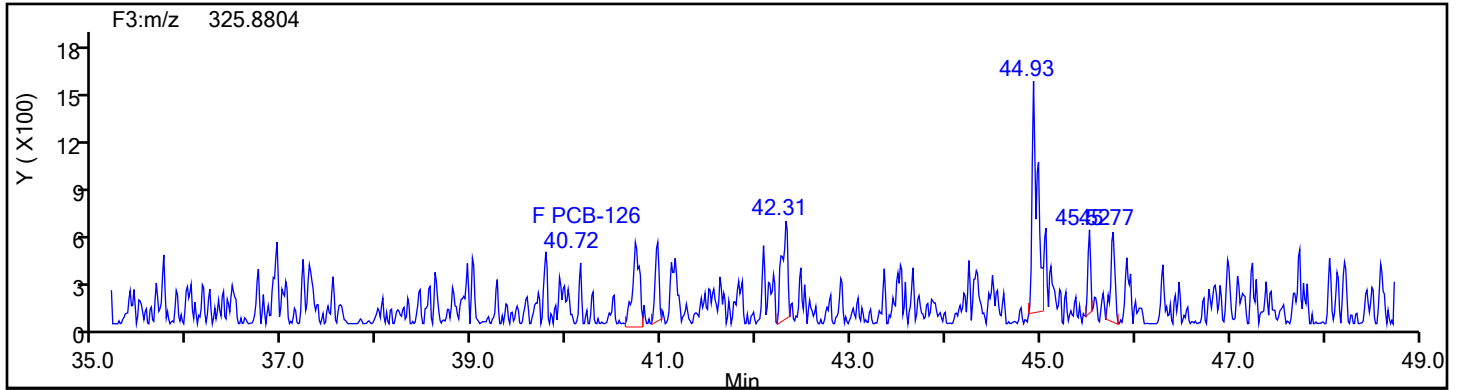
Worklist#: 87571

Sample Line#: 6

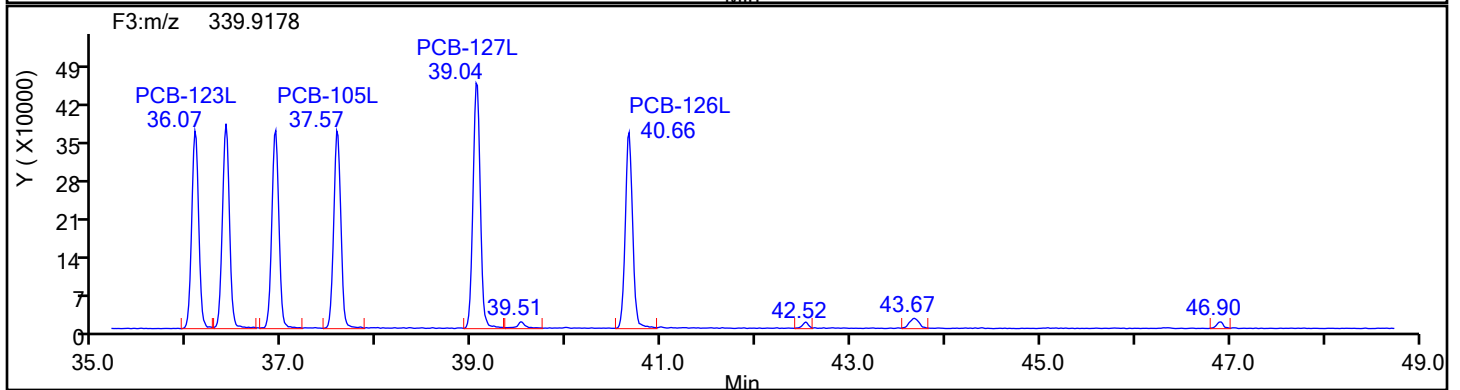
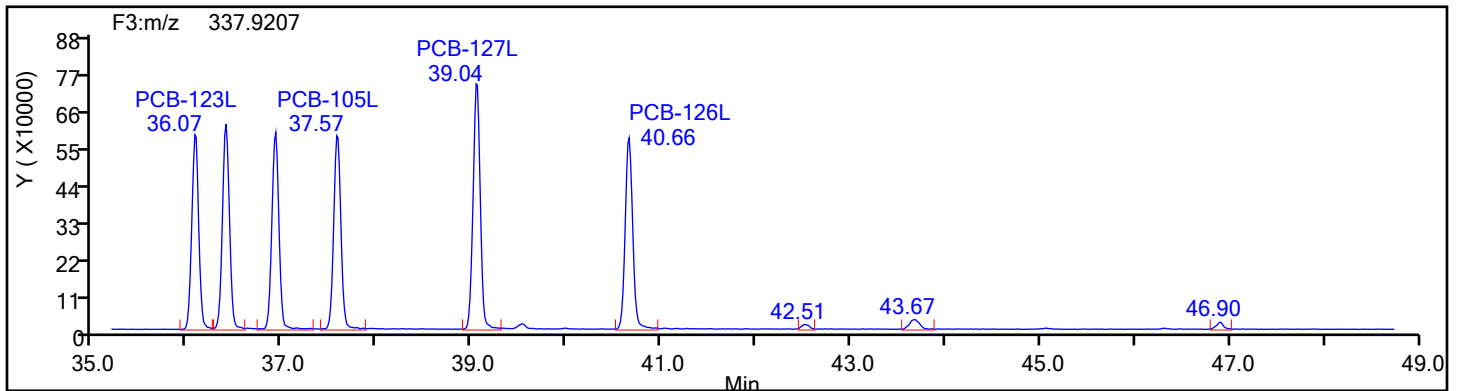
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3

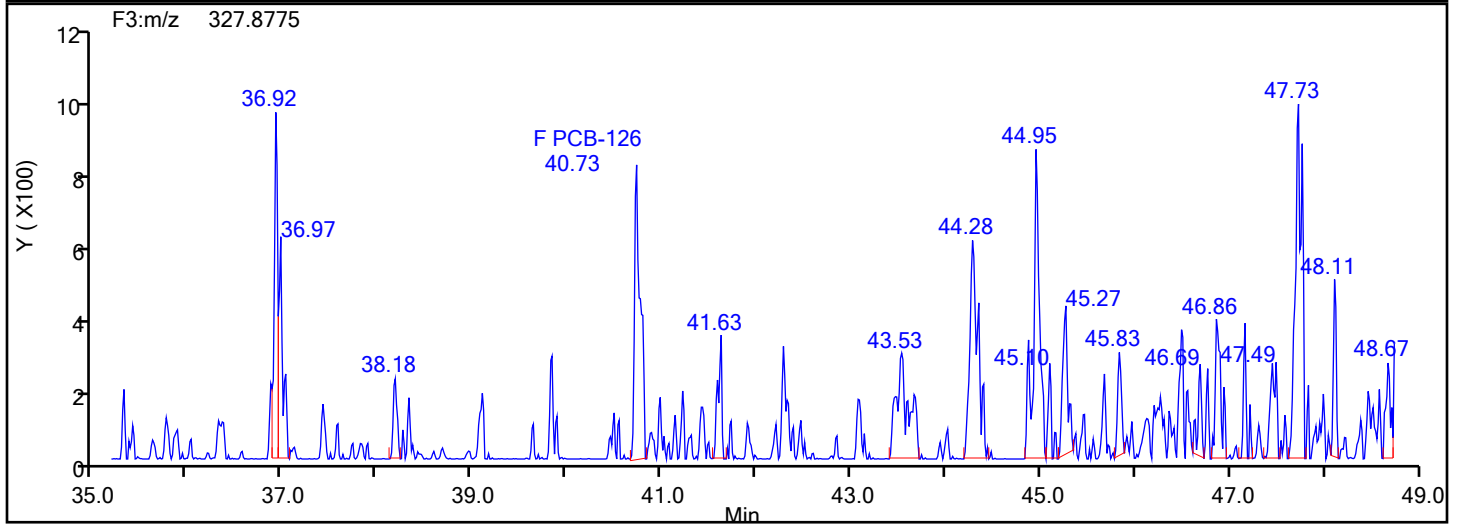
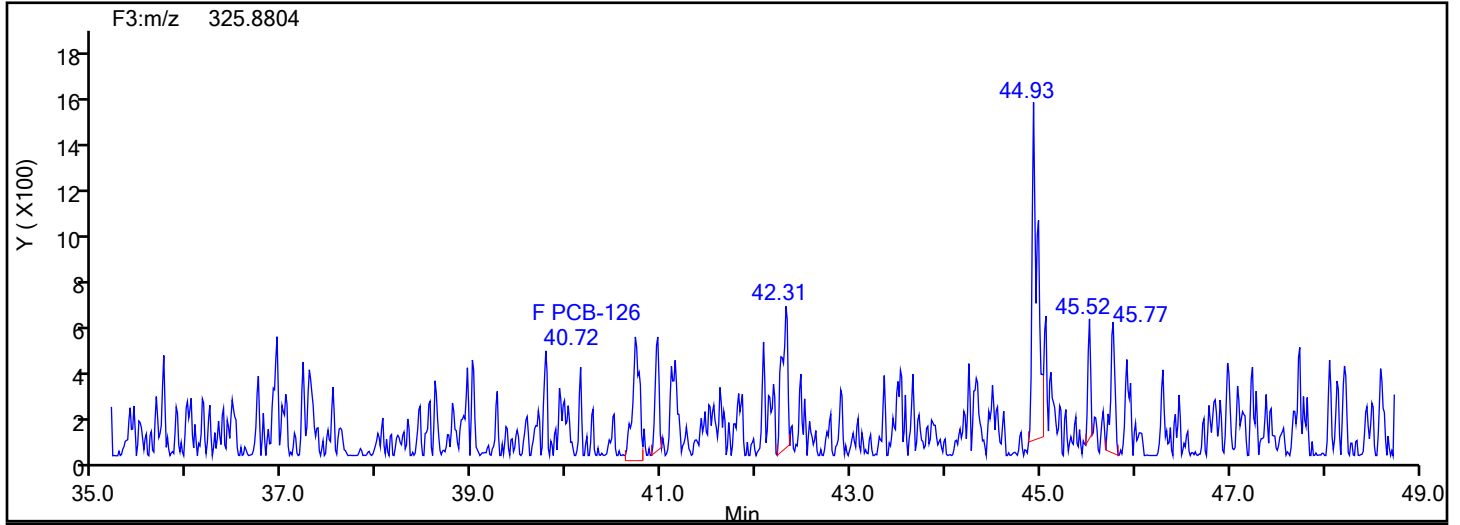


PePCB F3 Standards

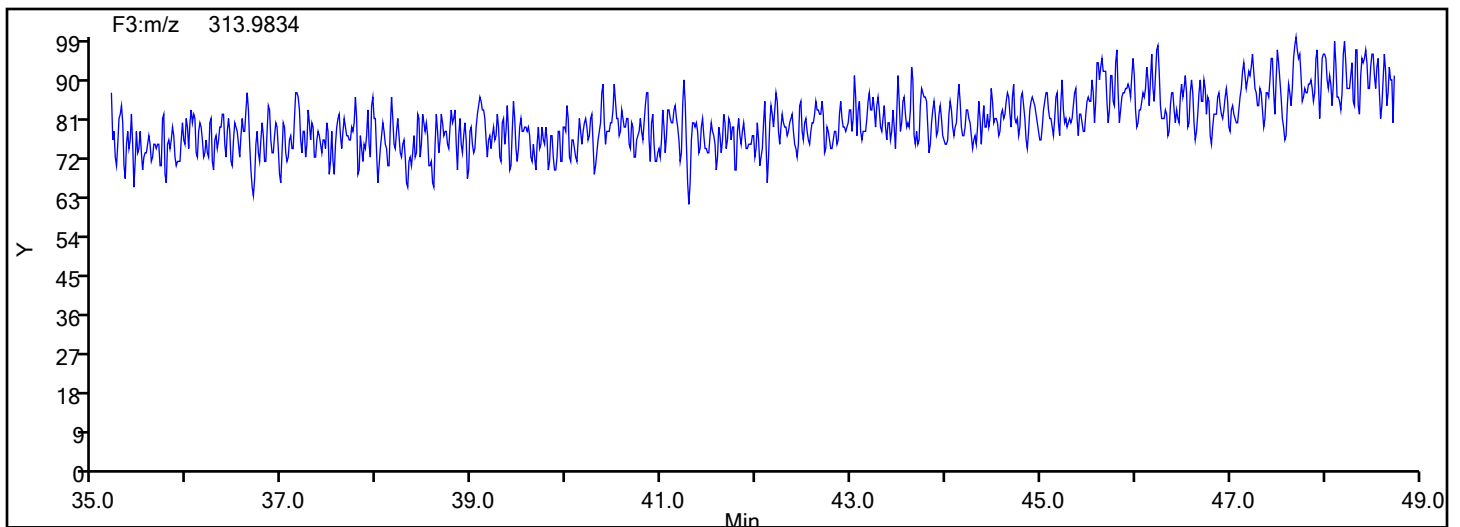


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d
Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

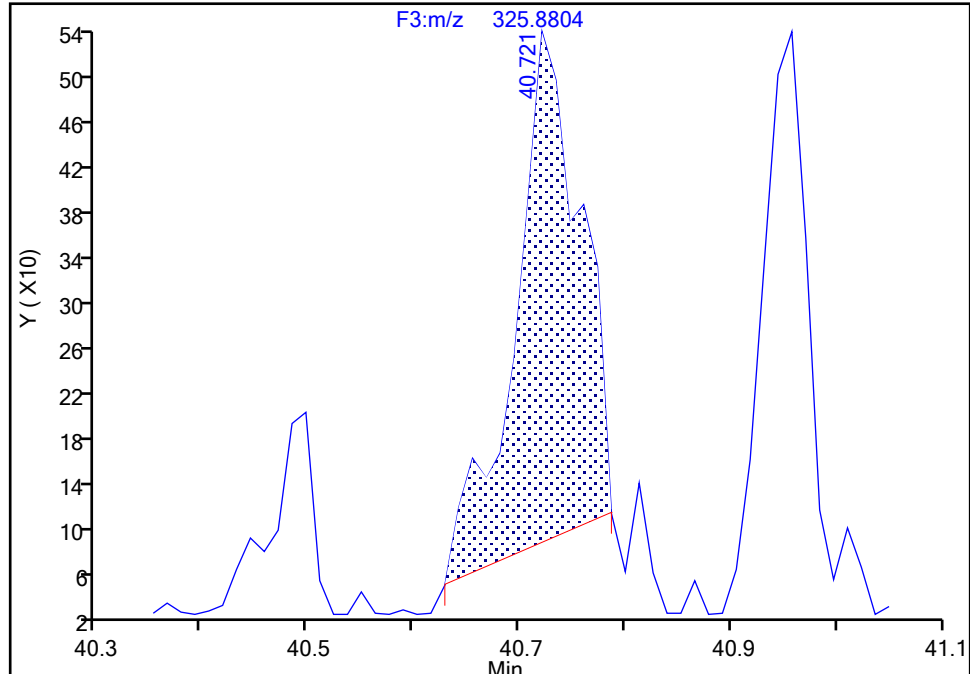
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Injection Date: 12-Jun-2024 14:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-14-C Lab Sample ID: 140-36689-14
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-126, CAS: 57465-28-8

Signal: 1

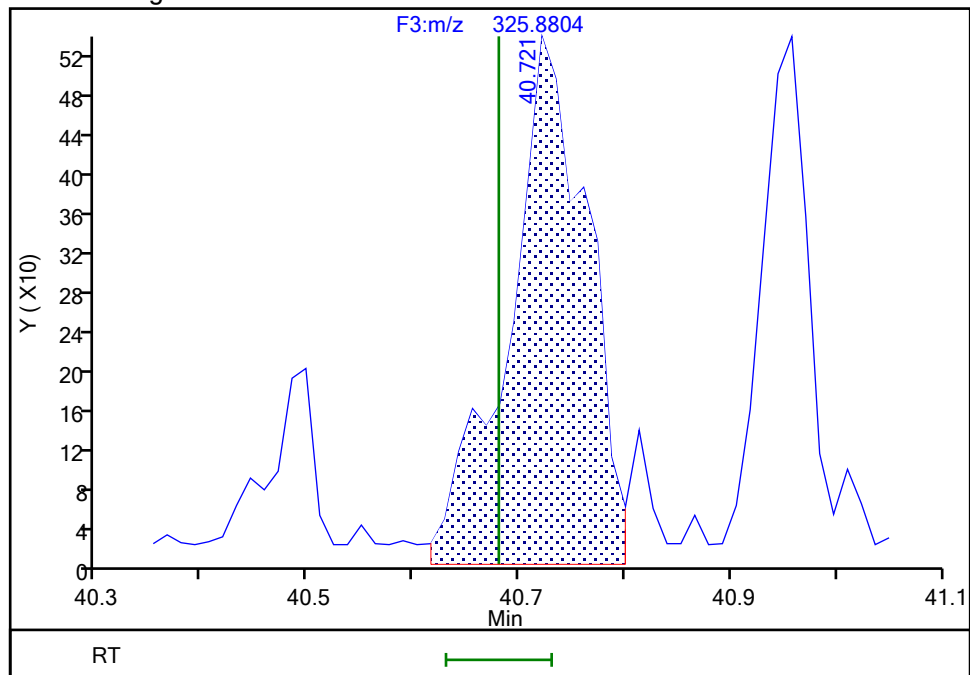
RT: 40.72
Area: 1954
Amount: 0.090294
Amount Units: pg/ul

Processing Integration Results



RT: 40.72
Area: 2774
Amount: 0.109005
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 17:55:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

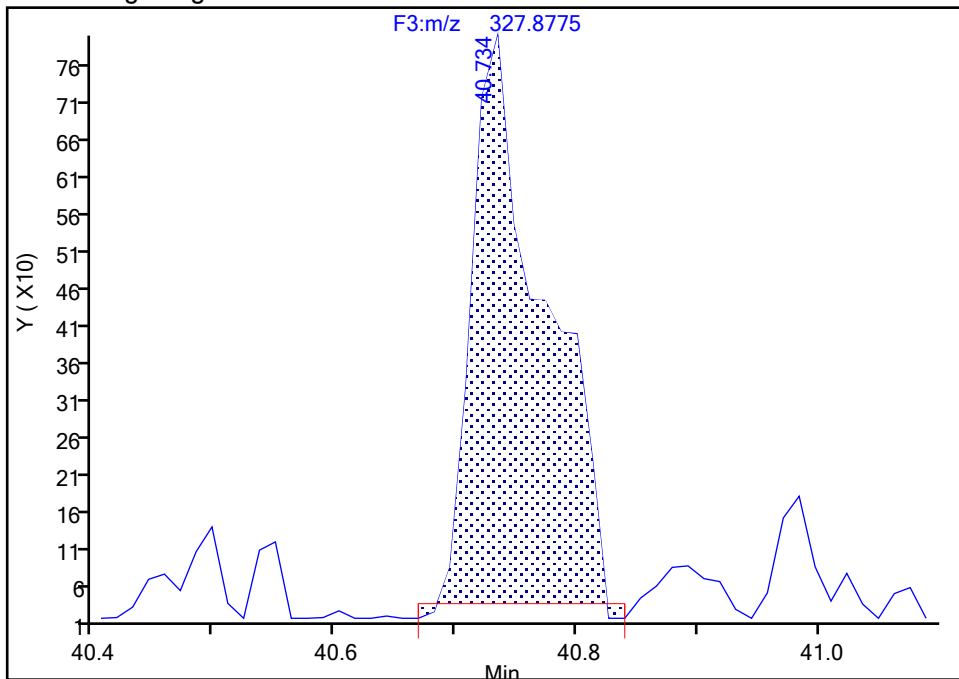
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Lims ID:	140-36689-A-14-C	Lab Sample ID:	140-36689-14		
Client ID:	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl (0.25 mm)	Detector	F3(35.64 :49.10)		

PCB-126, CAS: 57465-28-8

Signal: 2

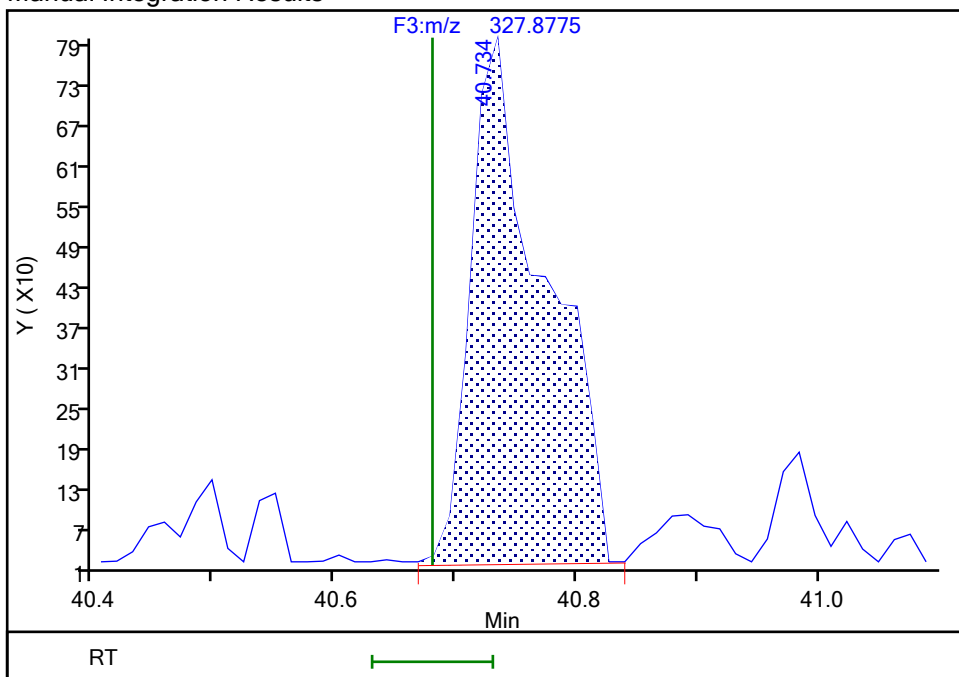
Processing Integration Results

RT: 40.73
Area: 3113
Amount: 0.090294
Amount Units: pg/ul



Manual Integration Results

RT: 40.73
Area: 3343
Amount: 0.109005
Amount Units: pg/ul



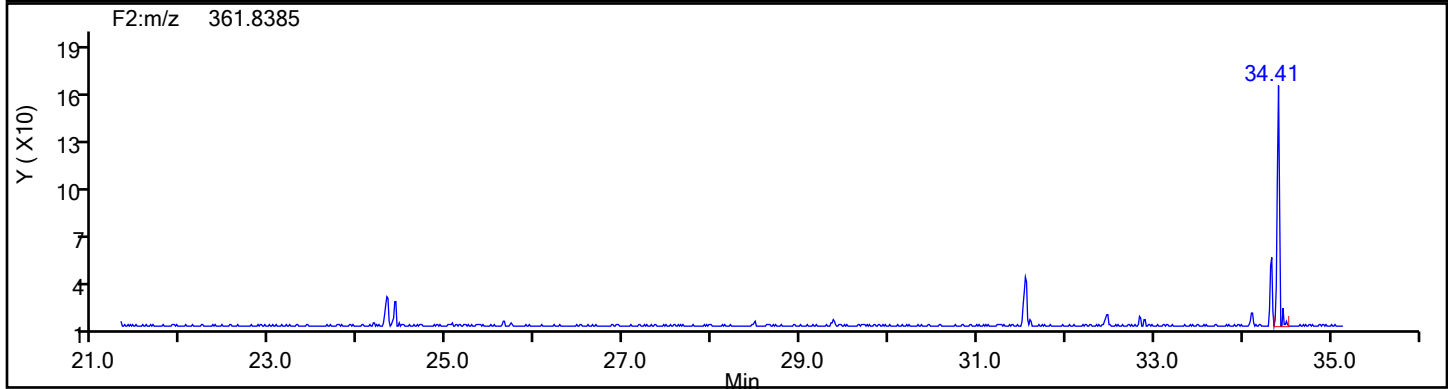
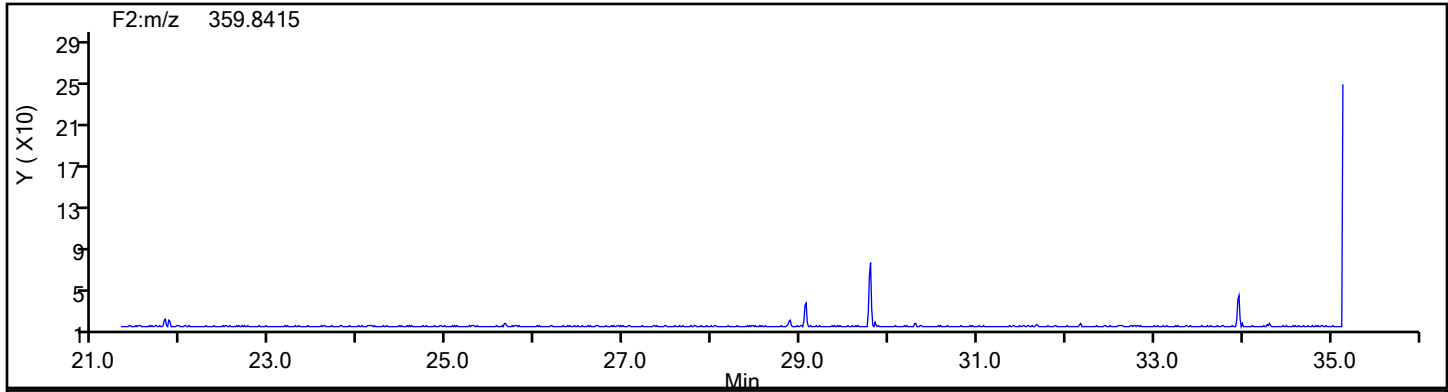
Reviewer: P0IK, 12-Jun-2024 17:56:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

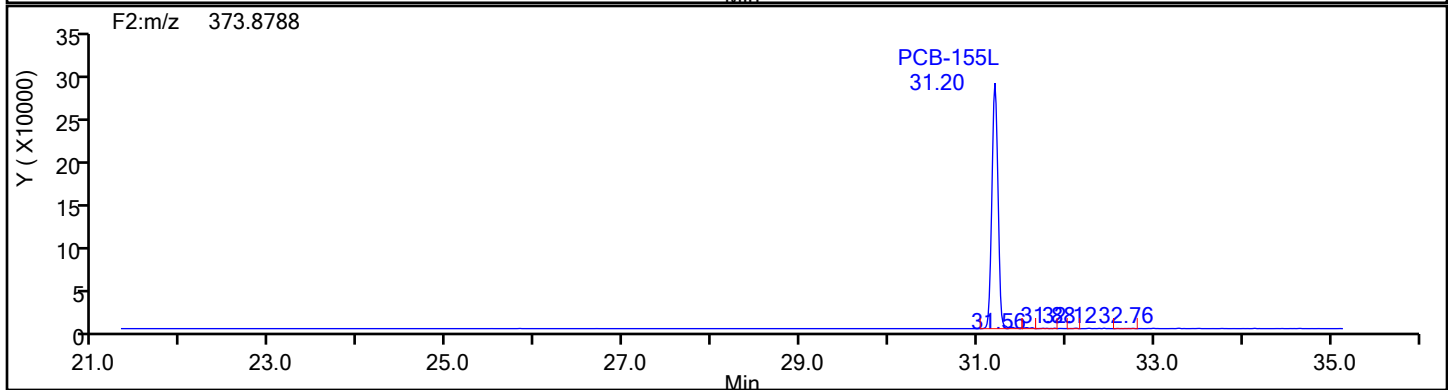
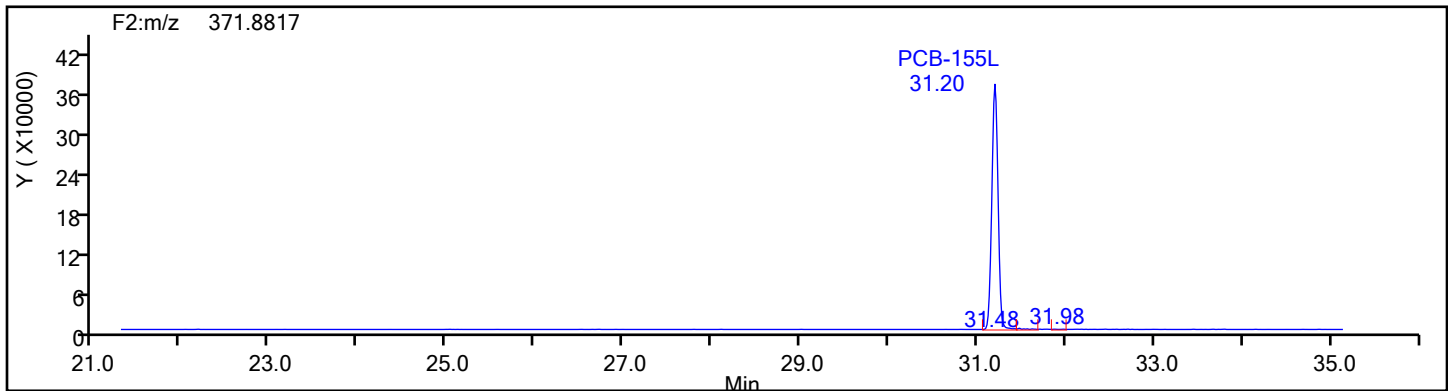
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d
Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

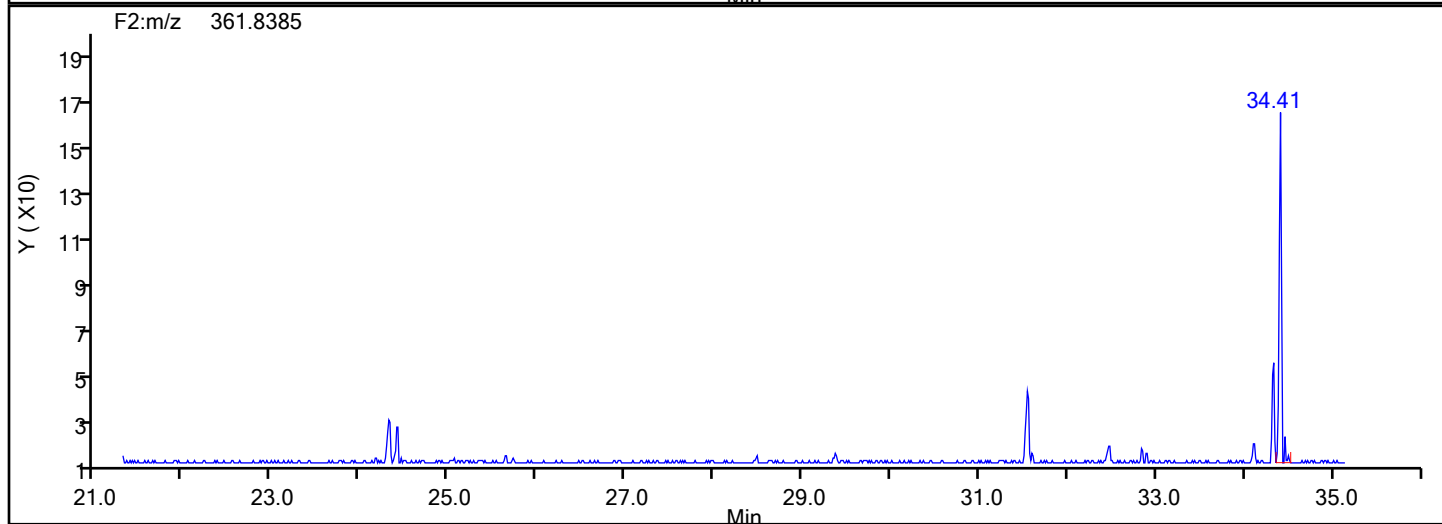
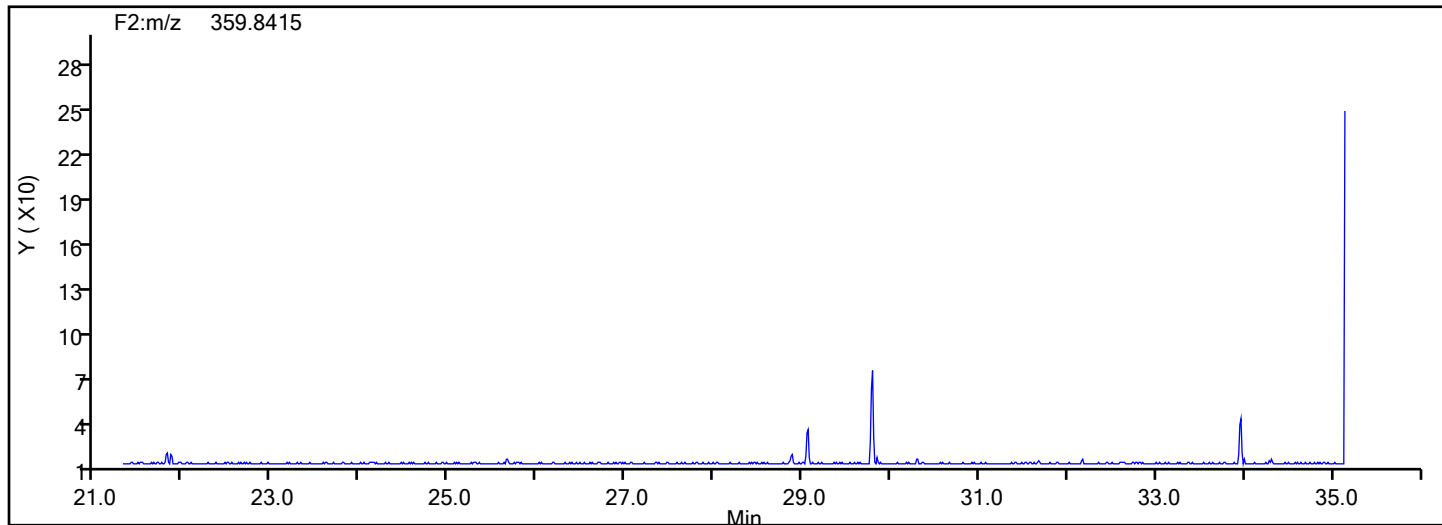


HxPCB F2 Standards

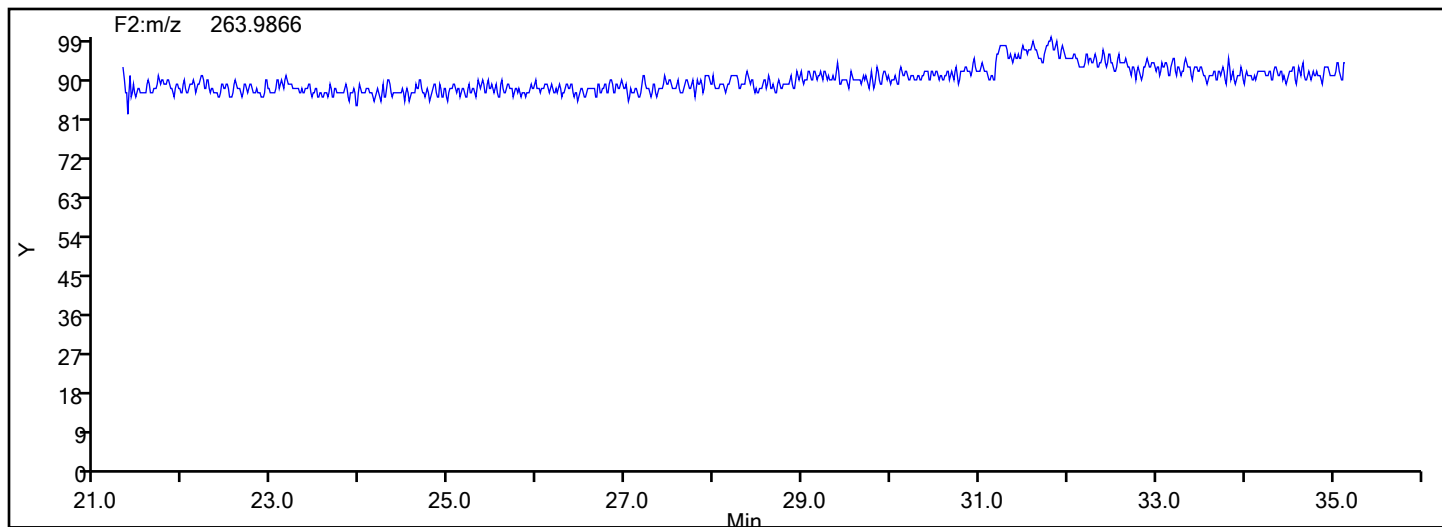


Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d		
Injection Date:	12-Jun-2024 14:09:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED		
Worklist#:	87571	Sample Line#:	6
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
HxPCB F2			



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d

Injection Date: 12-Jun-2024 14:09:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED

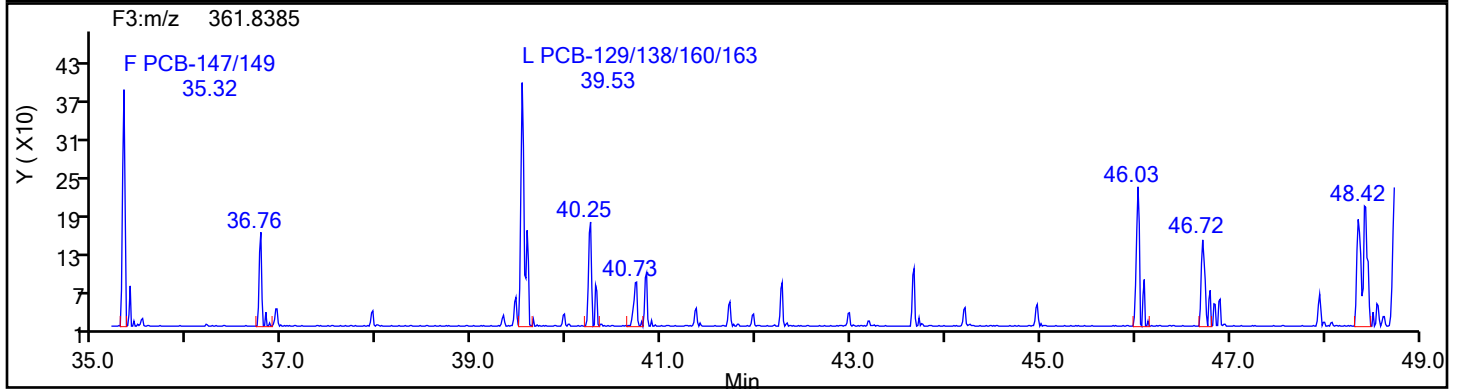
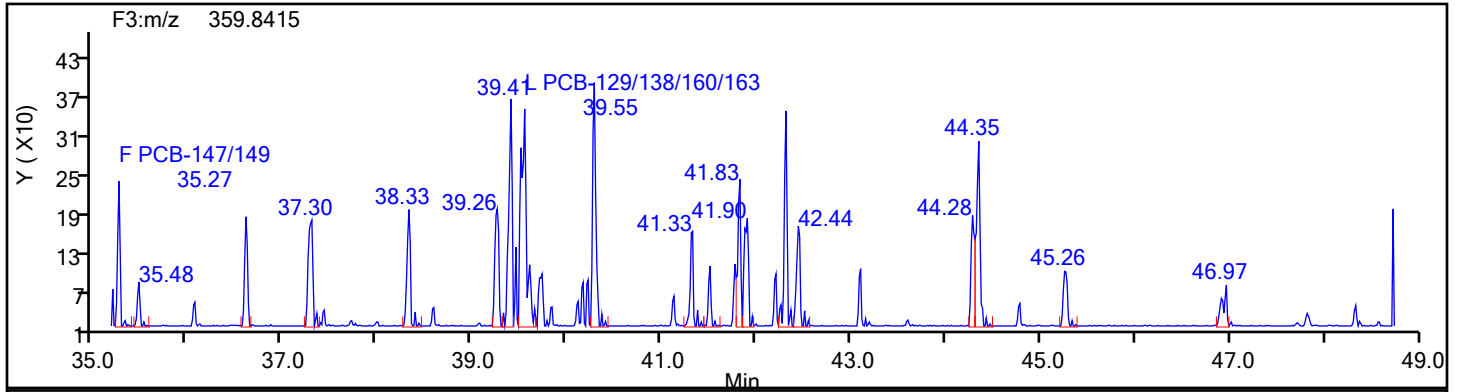
Worklist#: 87571

Sample Line#: 6

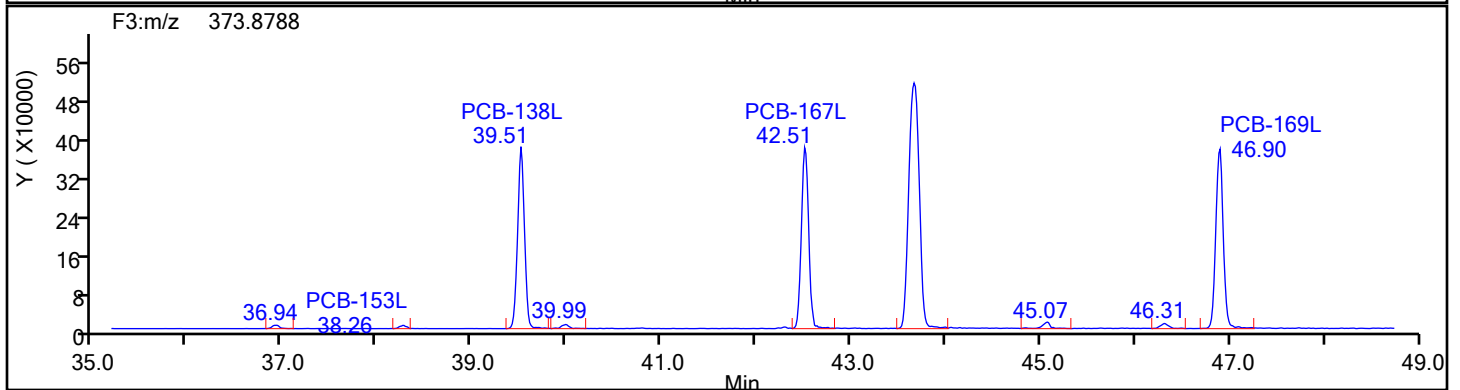
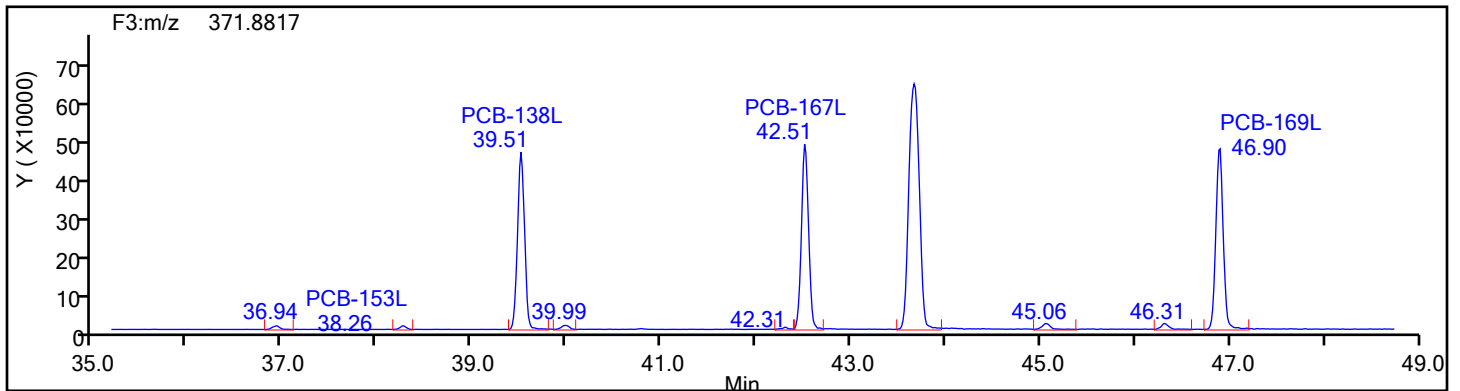
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3

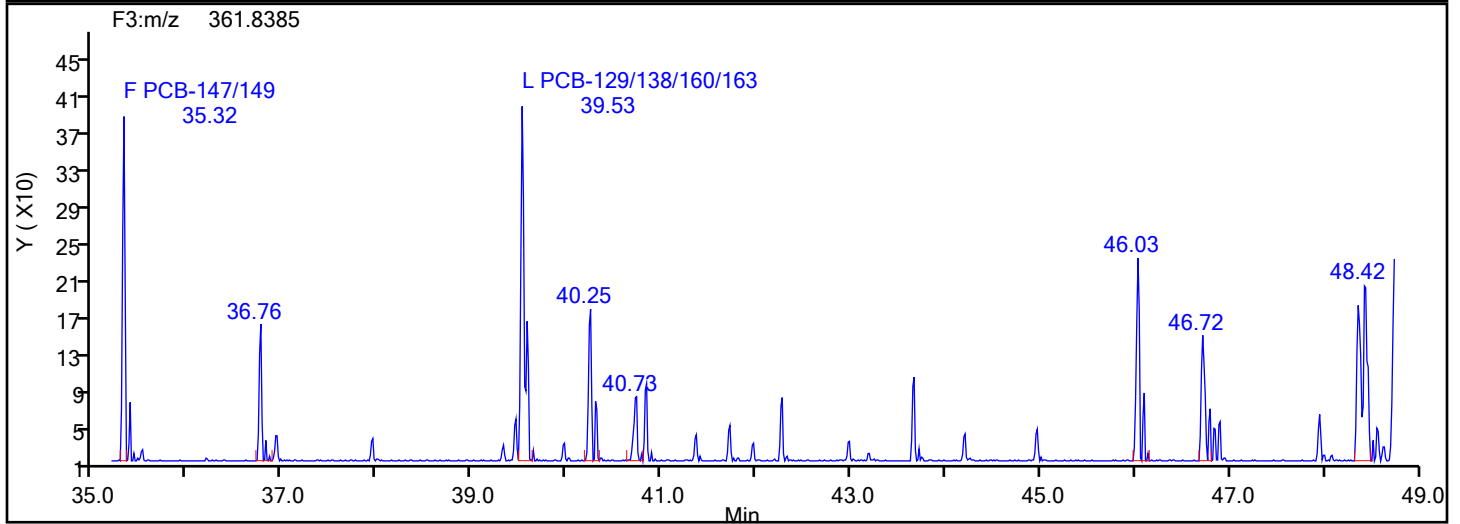
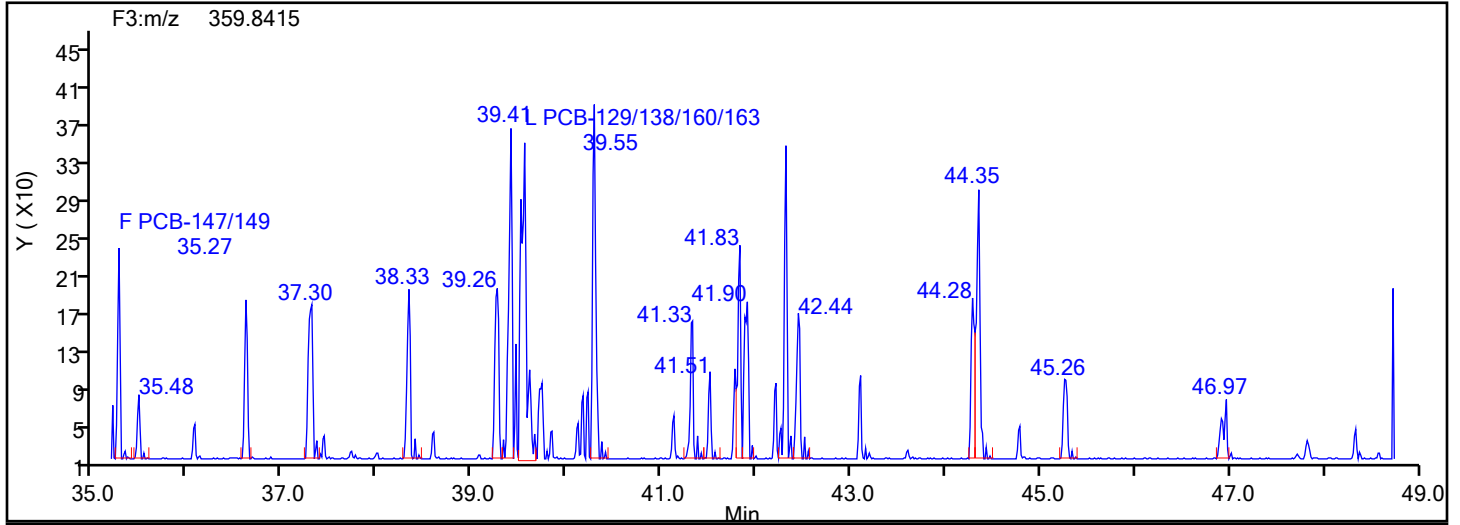


HxPCB F3 Standards

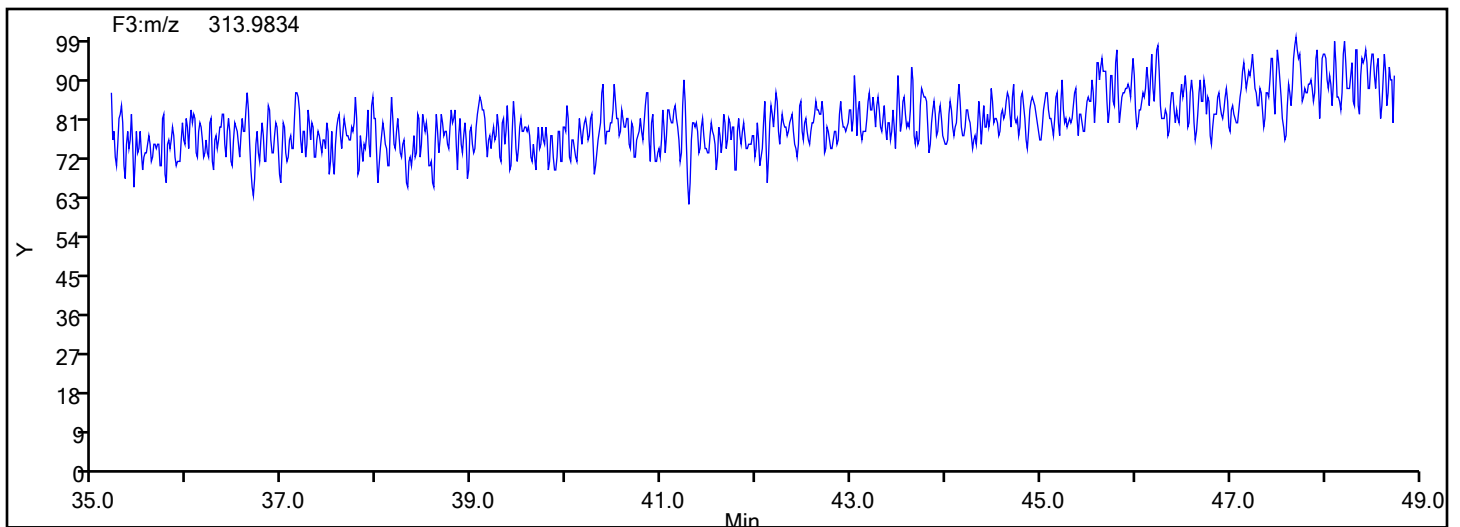


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d
Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

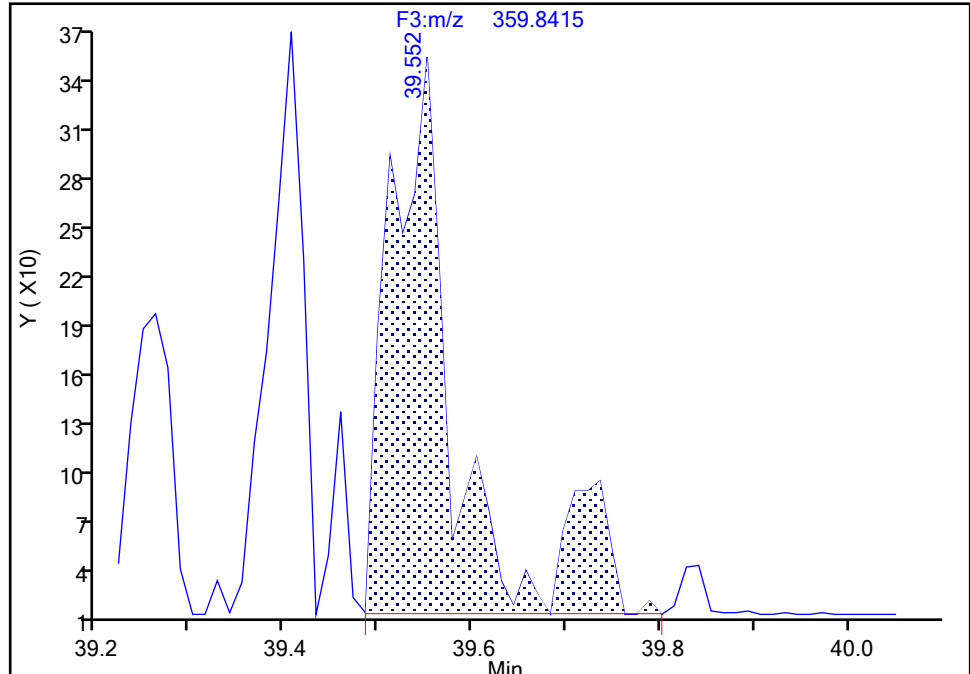
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Injection Date: 12-Jun-2024 14:09:00 Instrument ID: D2D
Lims ID: 140-36689-A-14-C Lab Sample ID: 140-36689-14
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

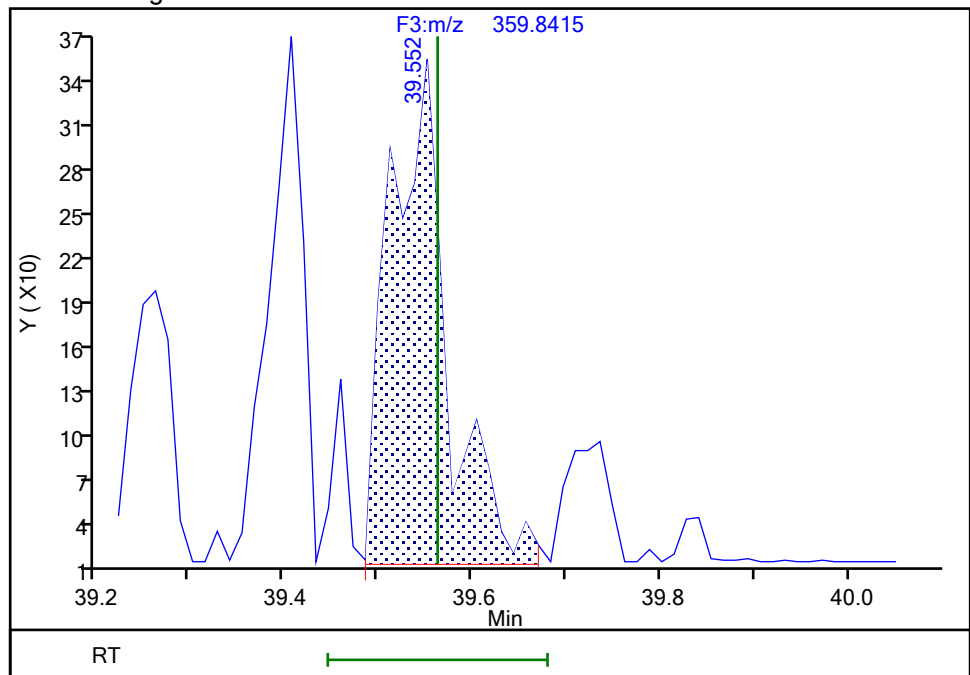
RT: 39.55
Area: 1649
Amount: 0.063257
Amount Units: pg/ul

Processing Integration Results



RT: 39.55
Area: 1404
Amount: 0.057565
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 17:56:36 -04:00:00 (UTC)

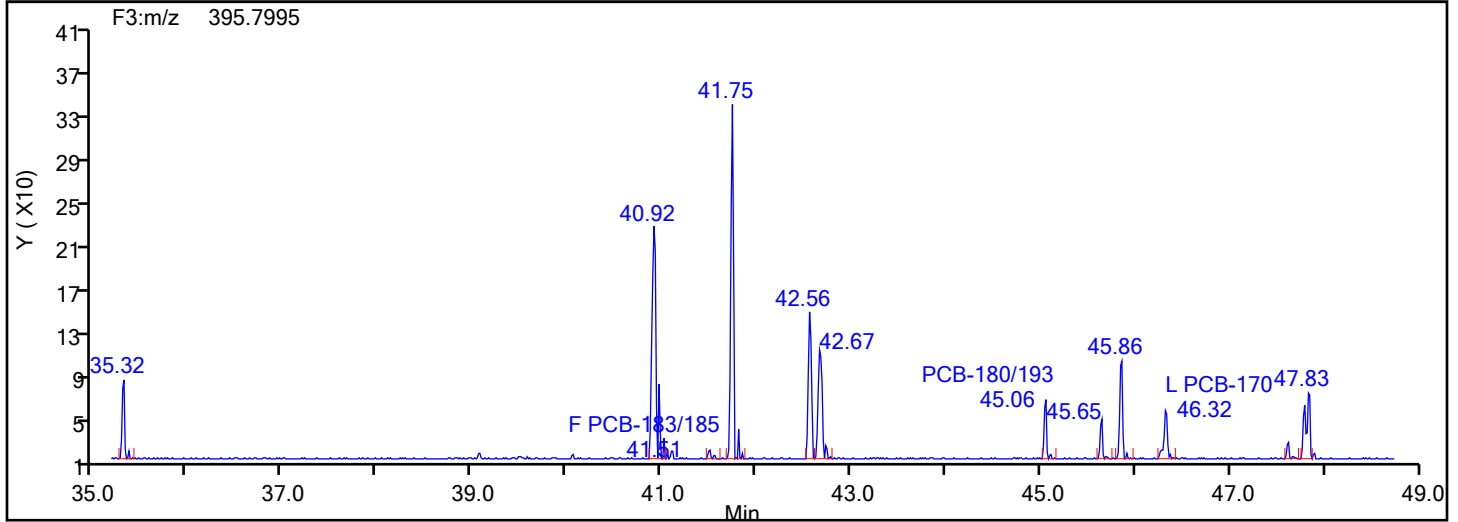
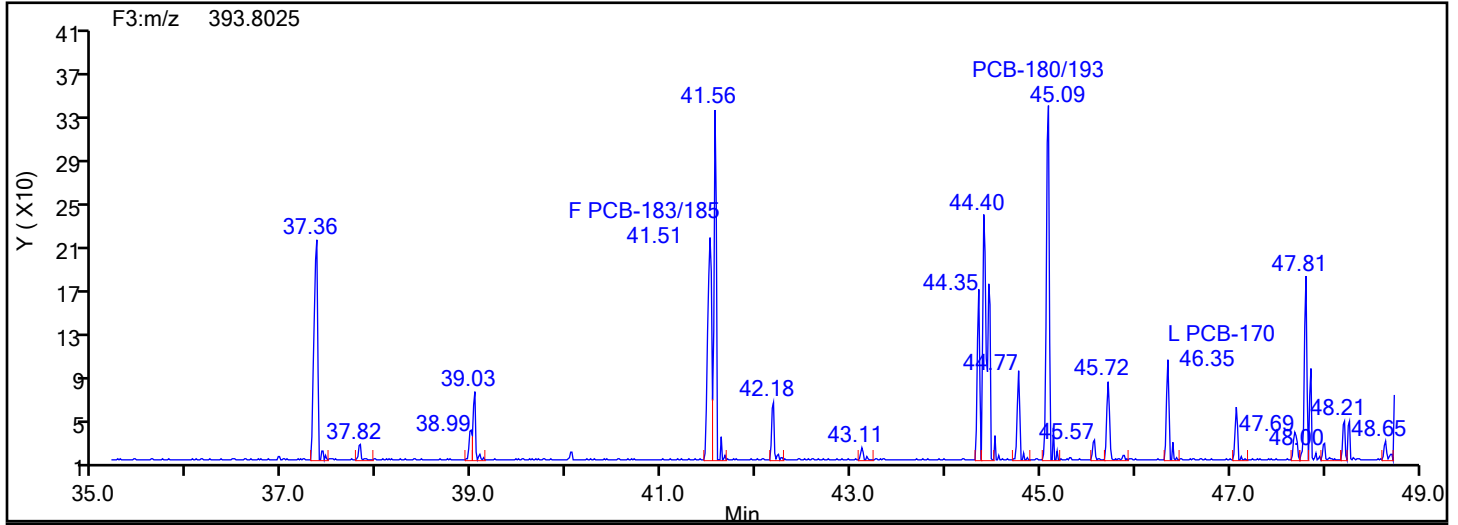
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

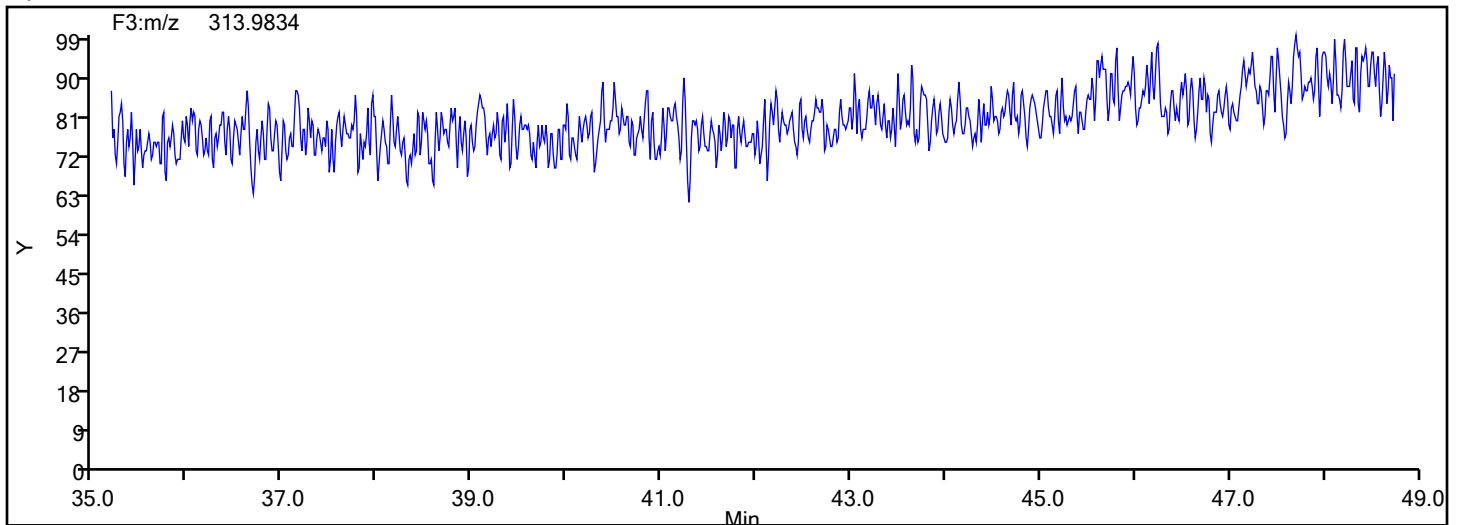
Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d
Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



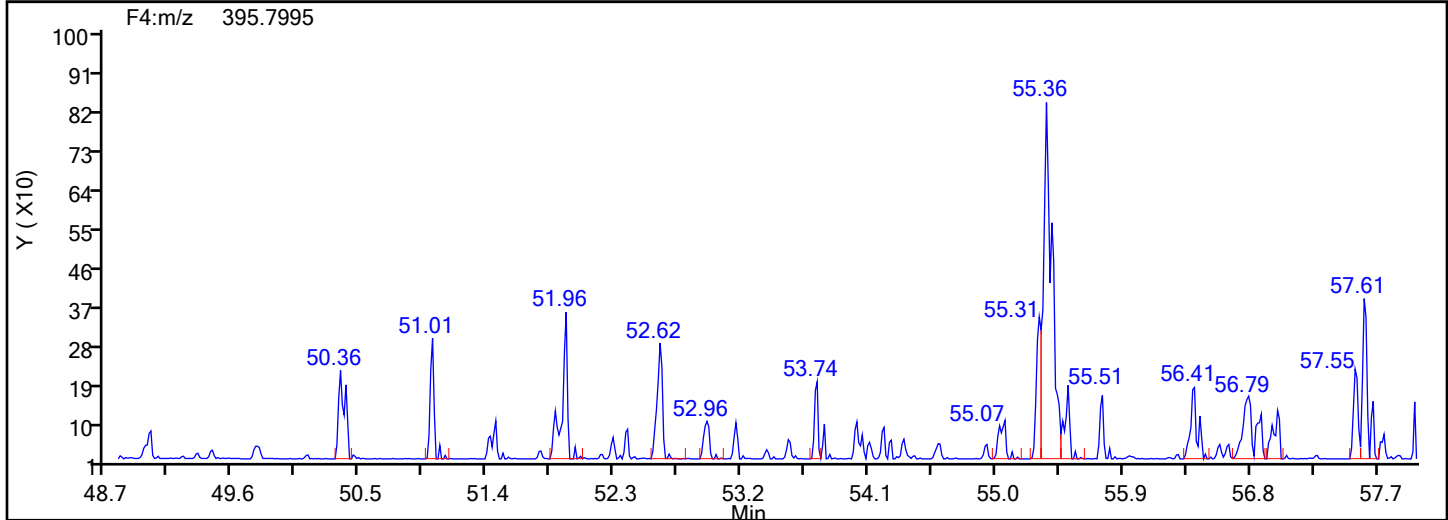
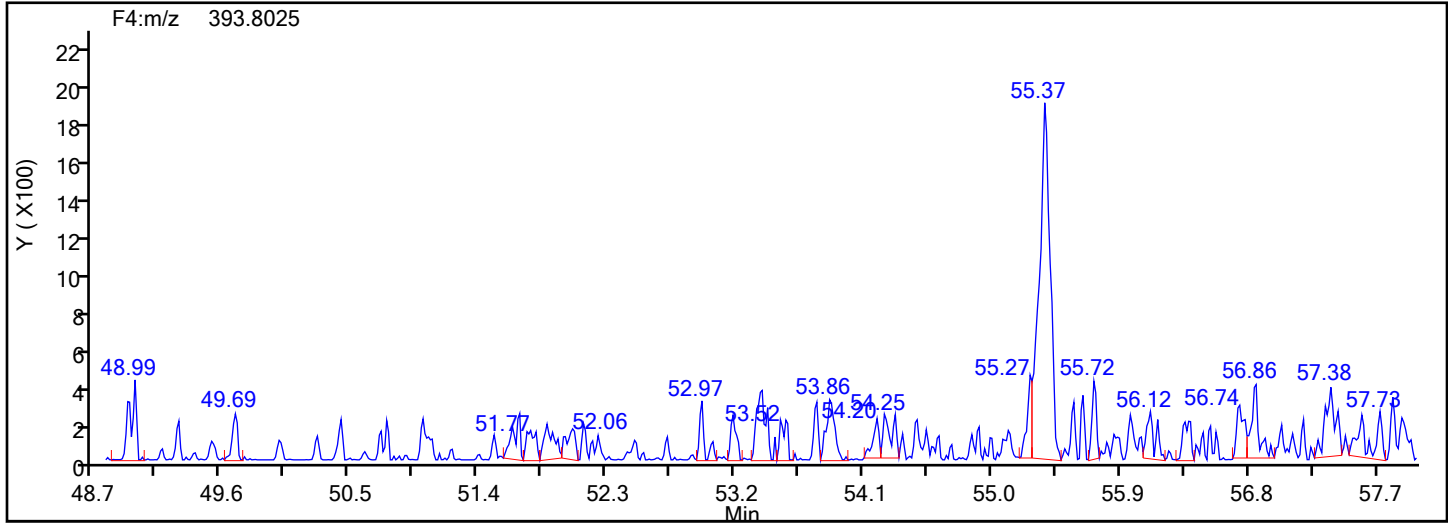
HpPCB F3 Lock Mass



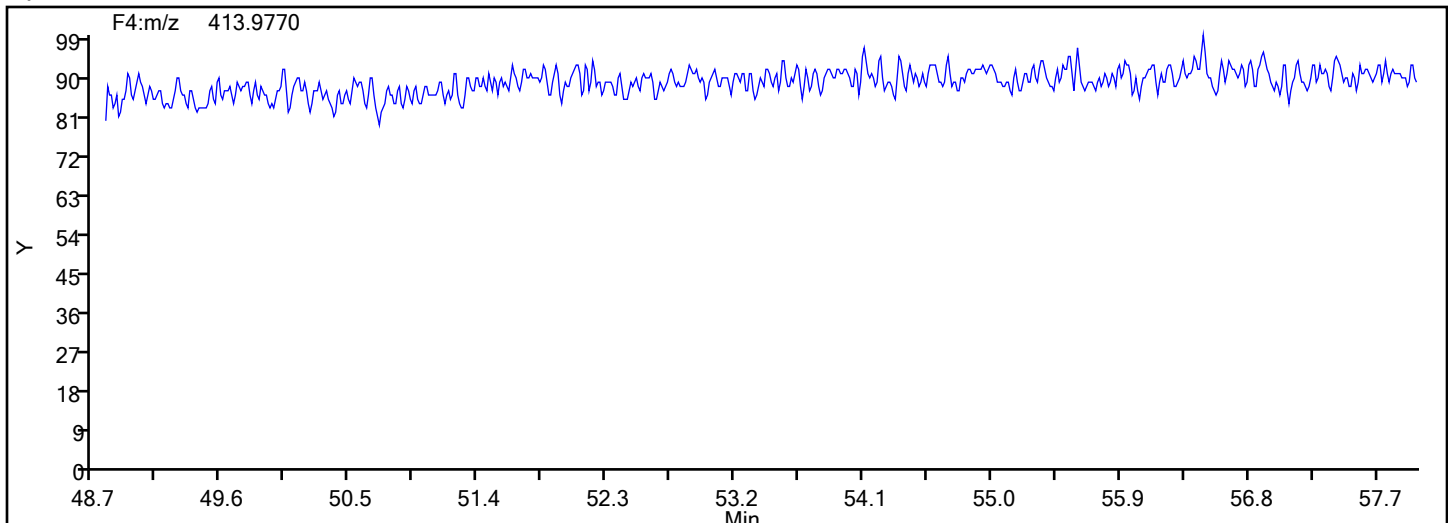
Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d
Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

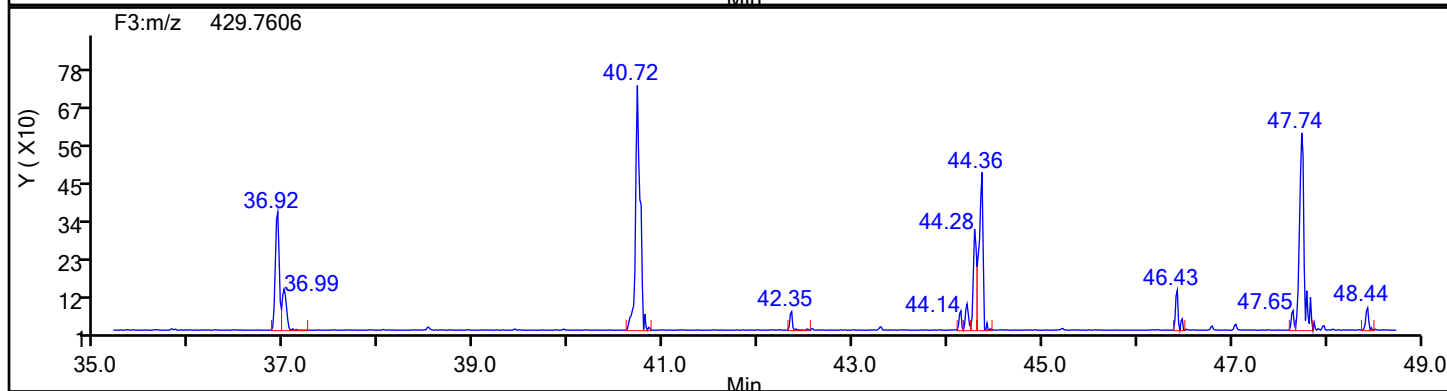
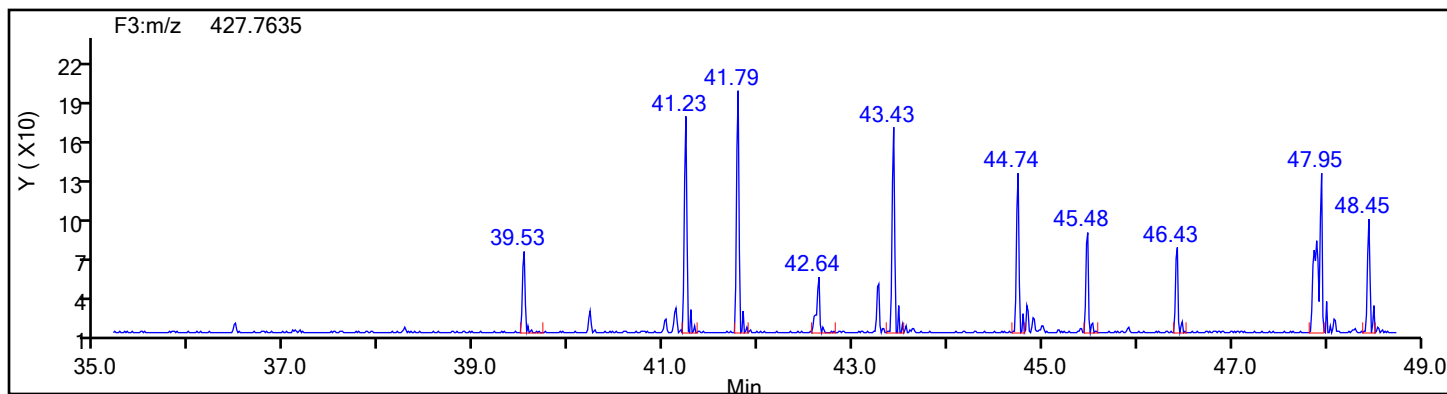


HpPCB F4 Lock Mass

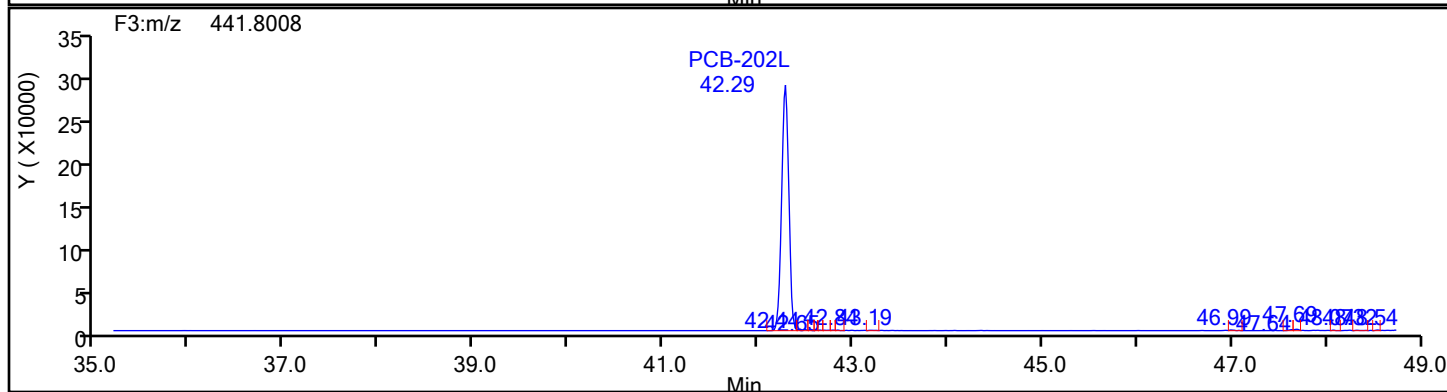
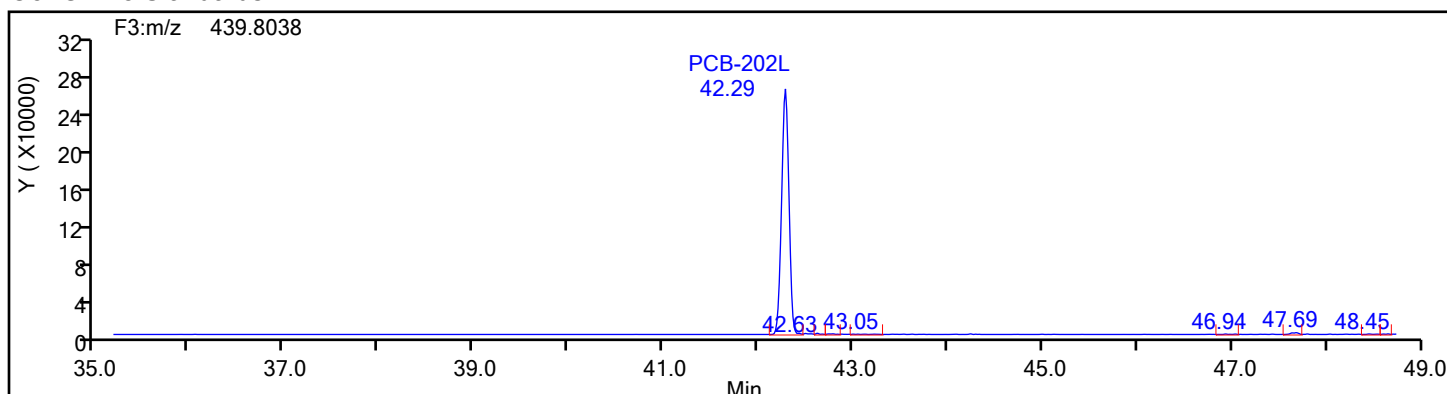


Eurofins Knoxville

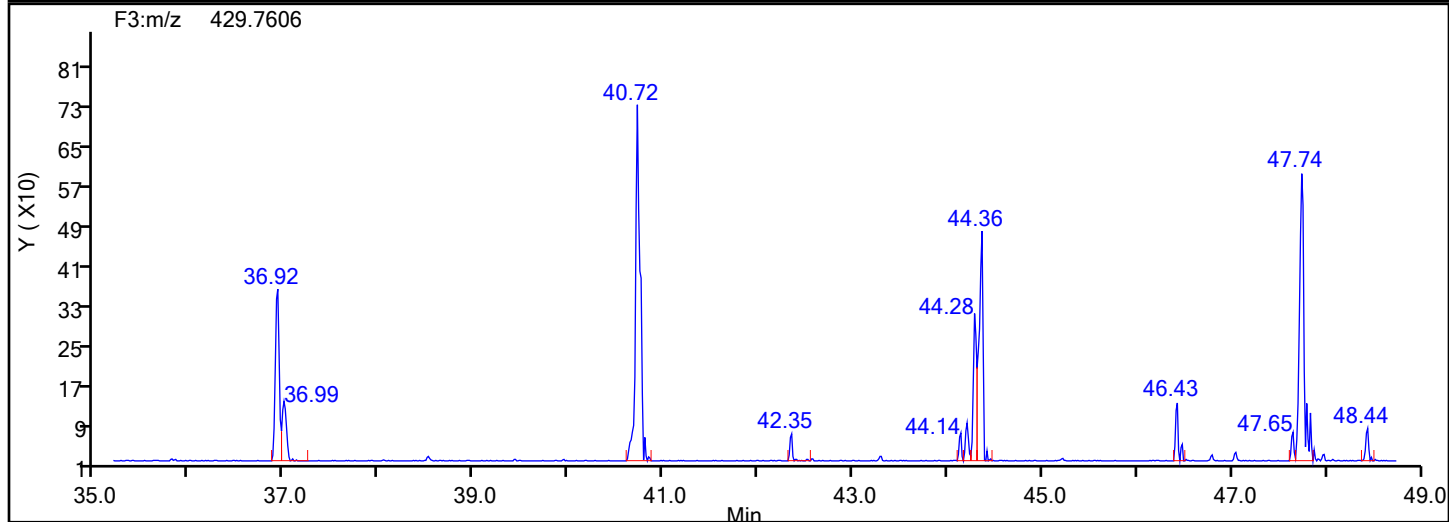
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Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3



OcPCB F3 Standards

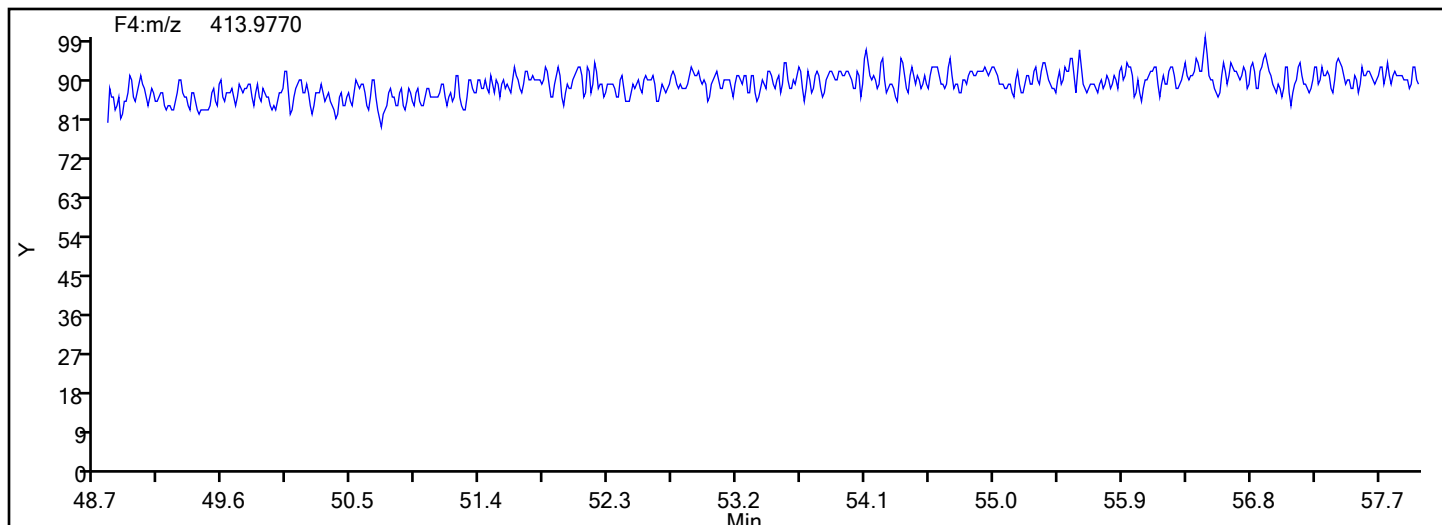
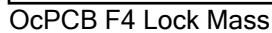


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Injection Date:	12-Jun-2024 14:09:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED		
Worklist#:	87571	Sample Line#:	6
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
OcPCB F3			



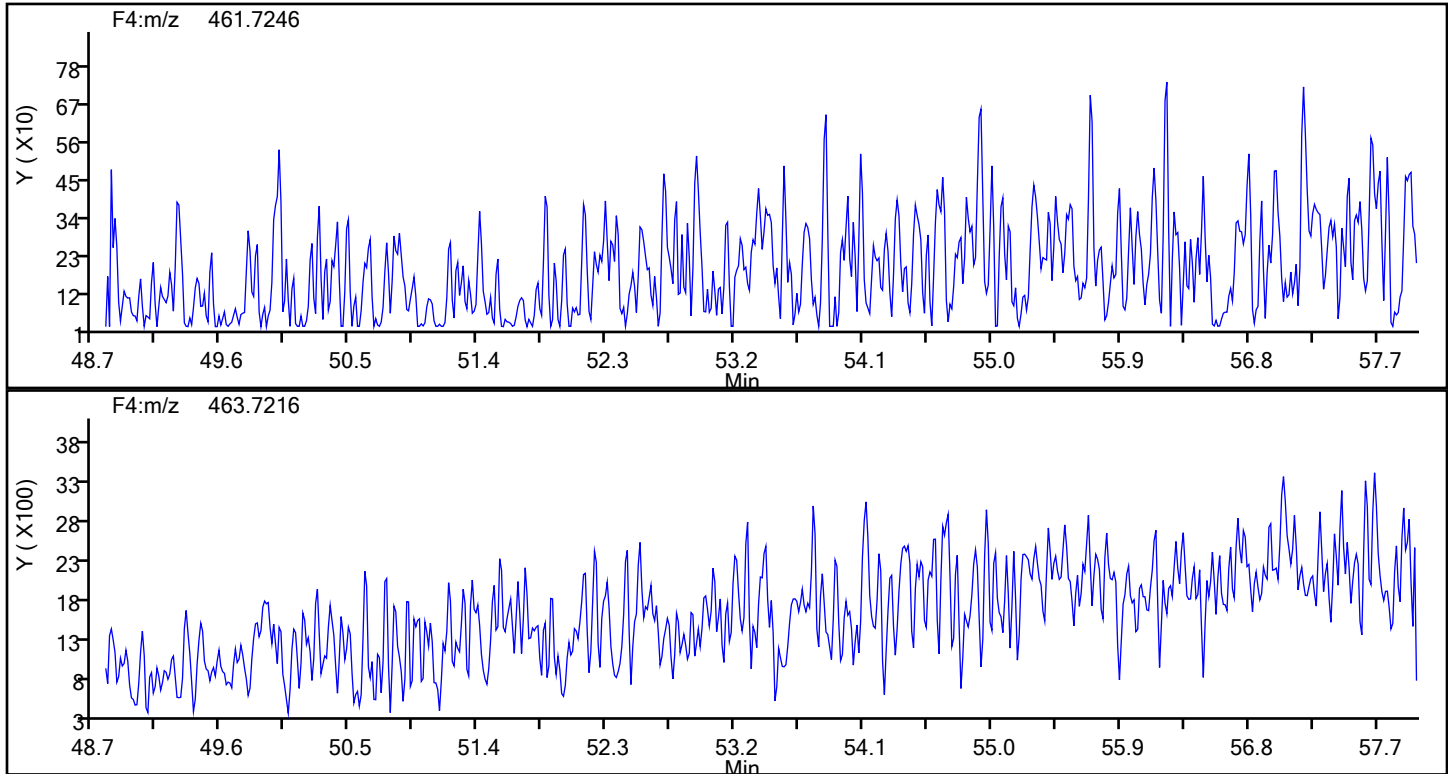
Column Dia: 0.25 mm

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d		
Injection Date:	12-Jun-2024 14:09:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED		
Worklist#:	87571	Sample Line#:	6
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
OcPCB F4			

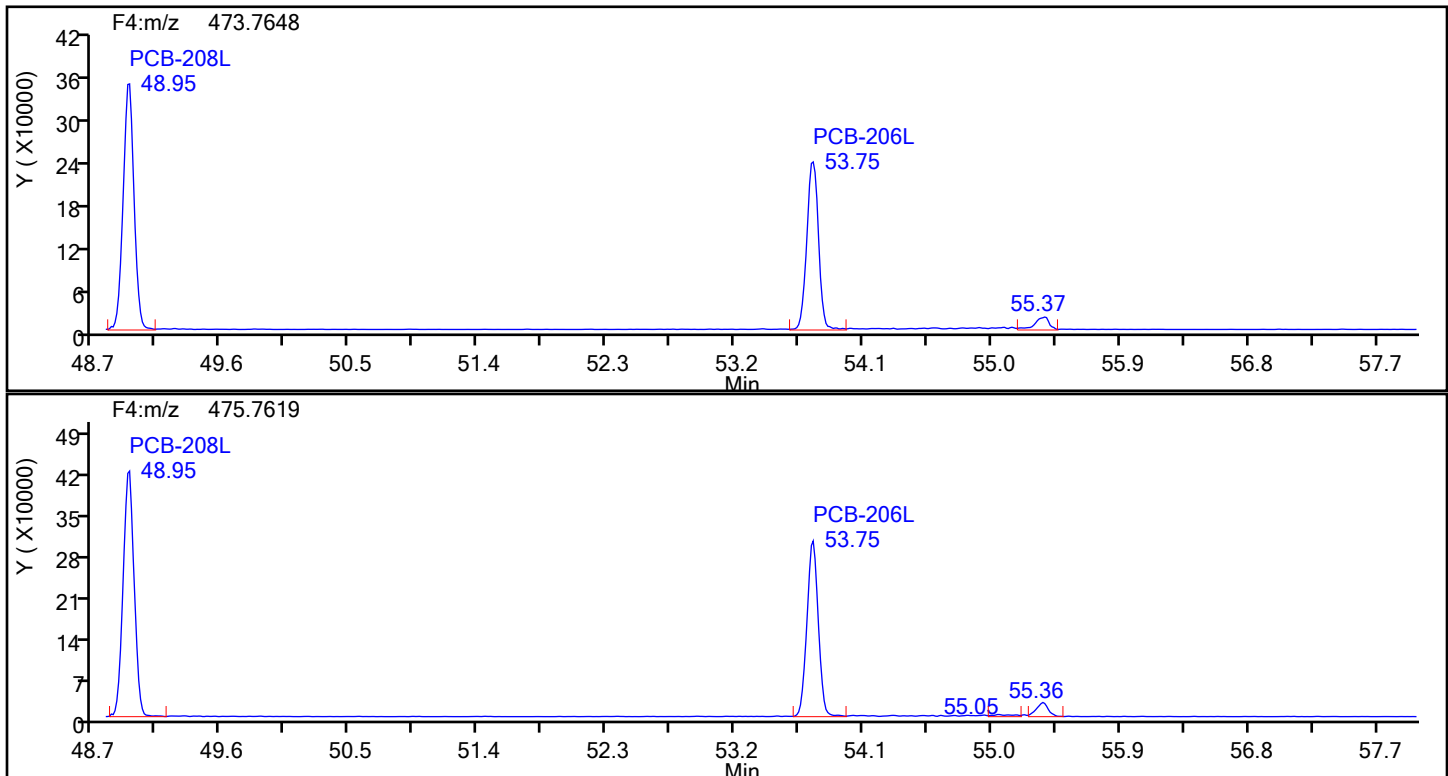


Eurofins Knoxville

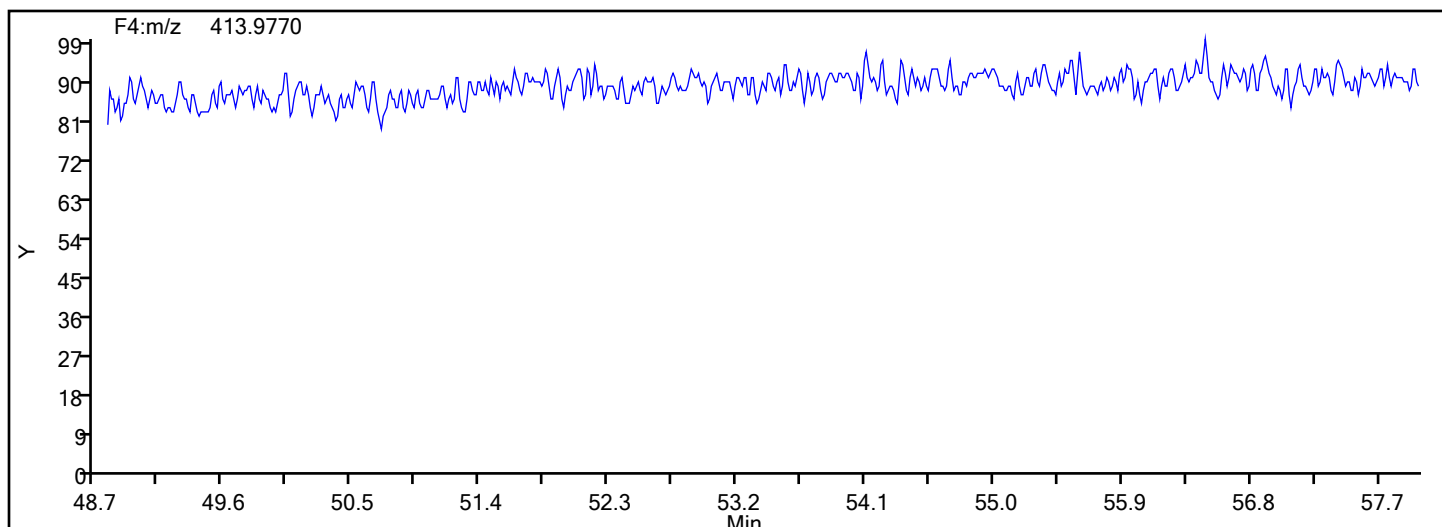
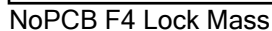
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Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards

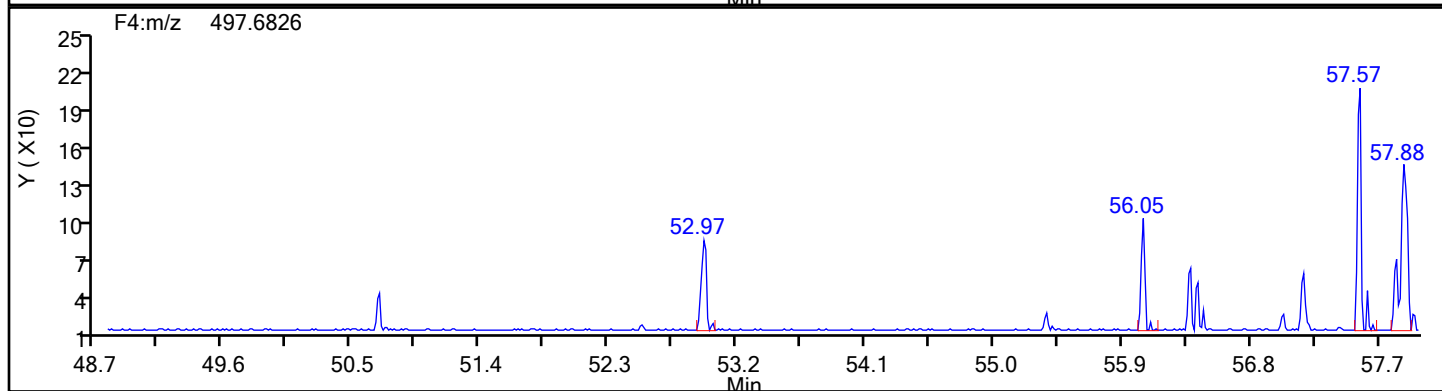
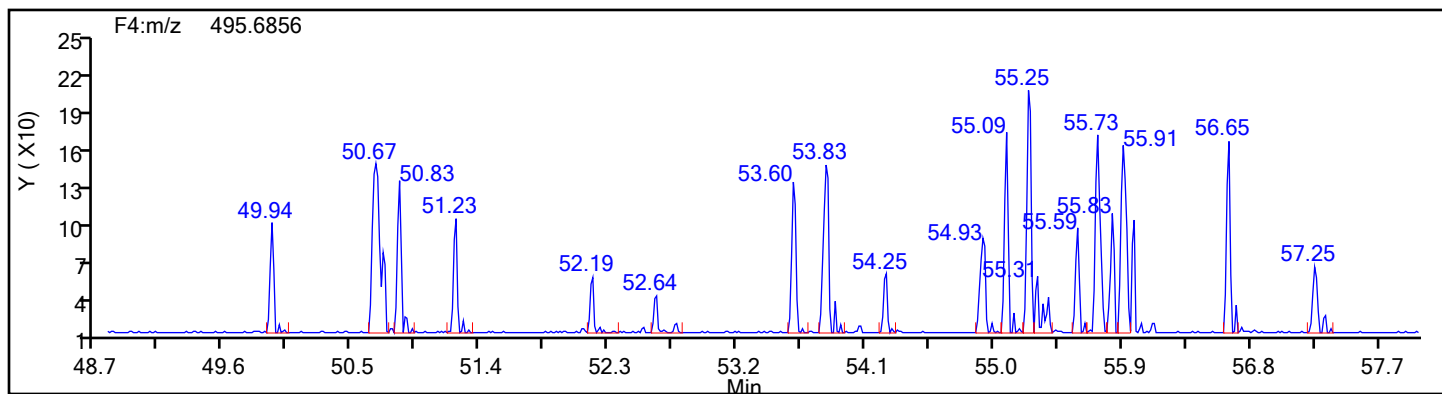


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Injection Date:	12-Jun-2024 14:09:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED		
Worklist#:	87571	Sample Line#:	6
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
NoPCB F4			

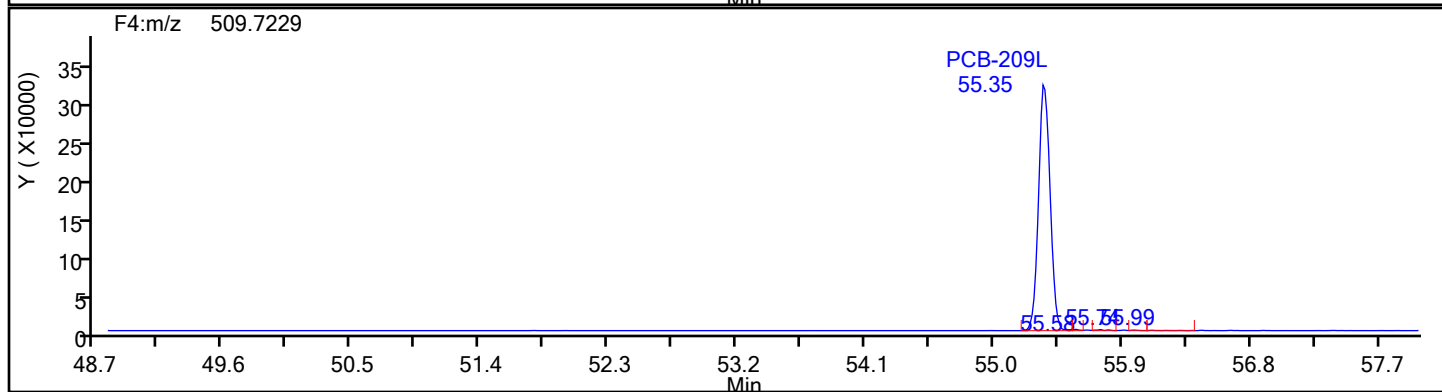
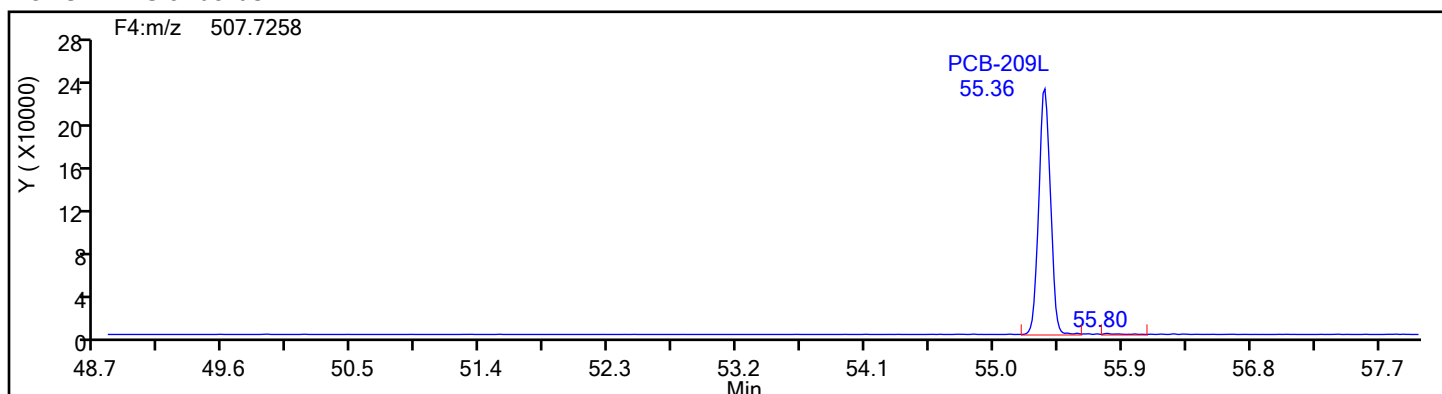


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d
Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

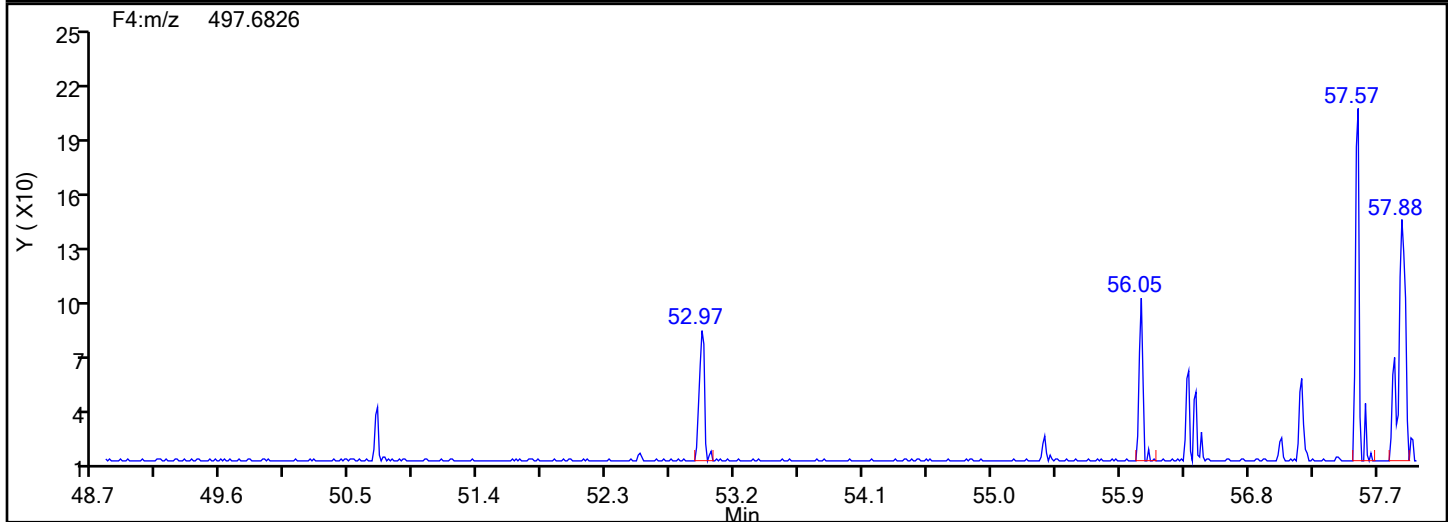
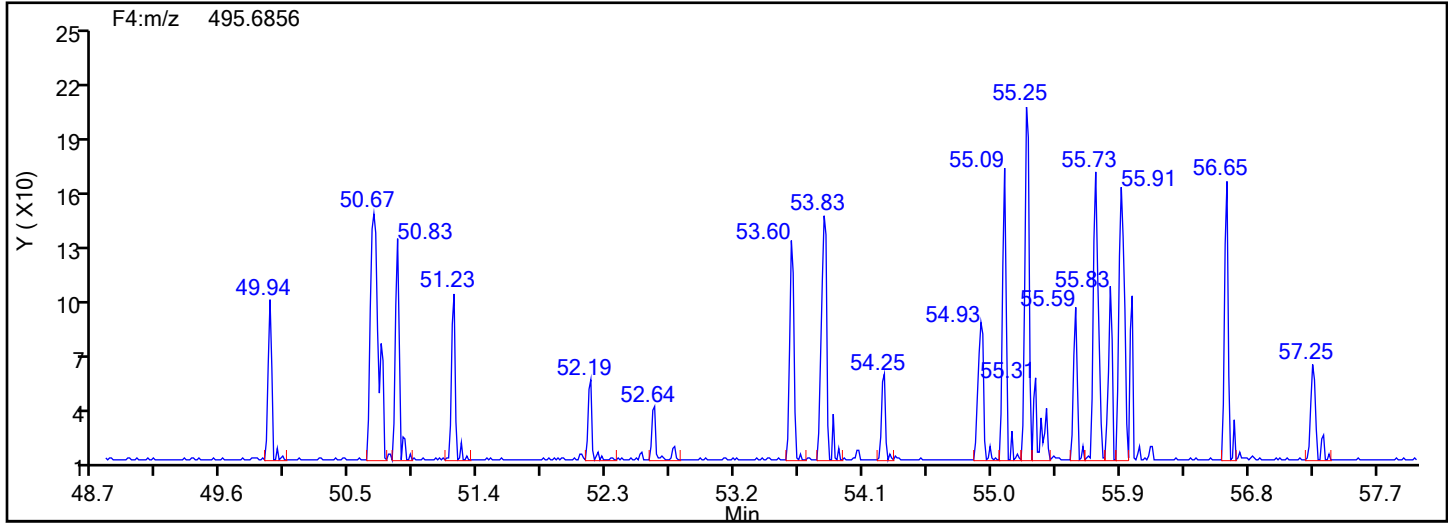


DePCB F4 Standards

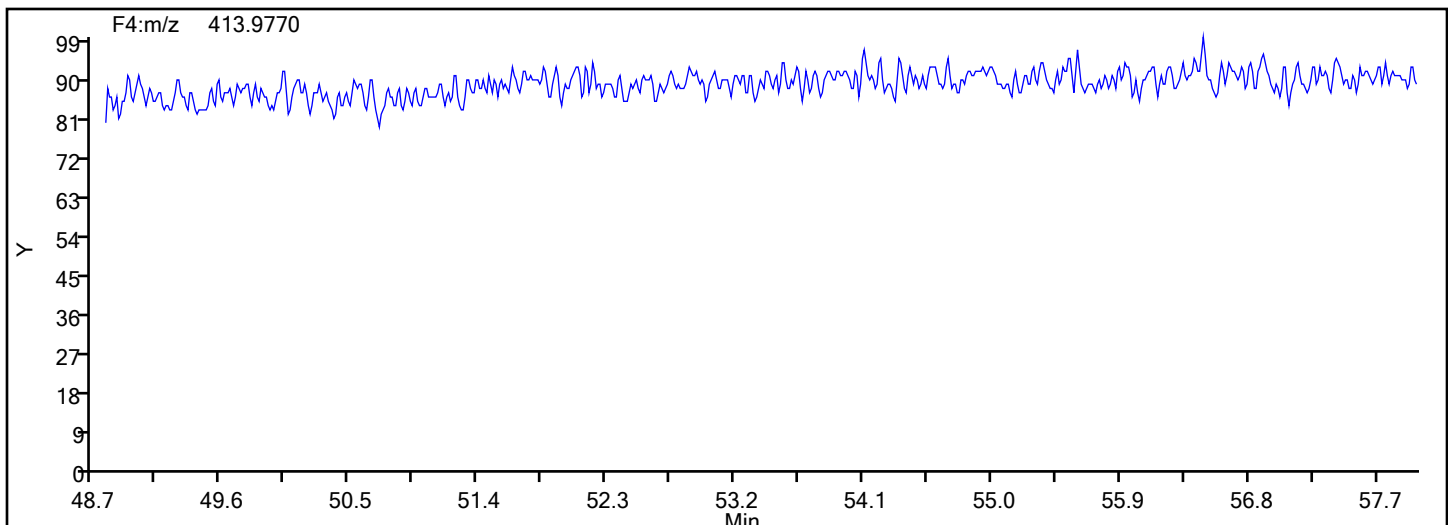


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d
Injection Date: 12-Jun-2024 14:09:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Worklist#: 87571 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\140-36689-a-14-c.d
Lims ID: 140-36689-A-14-C
Client ID: M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED
Sample Type: Client
Inject. Date: 12-Jun-2024 14:09:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033049-006
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 17:58:20 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1667

First Level Reviewer: P0IK

Date: 12-Jun-2024 17:58:20

Compound	Amount Added	Amount Recovered	% Rec.
PCB-28L	100.0	68.1	68.08
PCB-111L	100.0	70.2	70.16
PCB-178L	100.0	72.9	72.94

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87130/1	d2240531pi1a.d
Level 2	IC 140-87130/2	d2240531pi2a.d
Level 3	IC 140-87130/3	d2240531pi3.d
Level 4	IC 140-87130/4	d2240531pi4.d
Level 5	IC 140-87130/5	d2240531pi5.d
Level 6	IC 140-87130/6	d2240531pi6.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1	1.1940 ++++	1.2500	1.2013	1.2099	1.2404	AveI D		1.219 1				2.0		10.0			
PCB-2	1.1446 1.2389	1.1448	1.1639	1.1761	1.2148	AveI D		1.180 5				3.3		10.0			
PCB-3	1.2348 1.2515	1.1807	1.2162	1.2221	1.2183	AveI D		1.220 6				1.9		10.0			
PCB-4	1.2321 1.3461	1.3096	1.2781	1.2714	1.2537	AveI D		1.281 8				3.2		10.0			
PCB-10	1.2608 1.3985	1.2753	1.3399	1.3379	1.2769	AveI D		1.314 9				4.0		10.0			
PCB-9	1.3387 1.4964	1.4271	1.4600	1.4190	1.3934	AveI D		1.422 4				3.8		10.0			
PCB-7	1.5117 1.4731	1.3994	1.3542	1.3818	1.3603	AveI D		1.413 4				4.6		10.0			
PCB-6	1.6333 1.6280	1.5253	1.4705	1.5096	1.4858	AveI D		1.542 1				4.6		10.0			
PCB-5	1.3392 1.4189	1.3052	1.2992	1.3524	1.3220	AveI D		1.339 5				3.3		10.0			
PCB-8	1.6110 1.7082	1.5218	1.5695	1.5692	1.5536	AveI D		1.588 9				4.1		10.0			
PCB-19	1.4682 1.2988	1.1078	1.2744	1.2635	1.2727	AveI D		1.280 9				9.0		10.0			
PCB-14	1.4324 1.4715	1.3421	1.3998	1.4142	1.3548	AveI D		1.402 5				3.5		10.0			
PCB-18	1.6979 1.8772	1.7468	1.7368	1.7771	1.7554	AveI D		1.765 2				3.4		10.0			
PCB-18/30	1.6979 1.8772	1.7468	1.7368	1.7771	1.7554	AveI D		1.765 2				3.4		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-30	1.6979 1.8772	1.7468	1.7368	1.7771	1.7554	AveI D		1.765 2				3.4		10.0			
PCB-11	1.3905 1.3772	1.1727	1.2859	1.2837	1.2603	AveI D		1.295 1				6.2		10.0			
PCB-17	1.2483 1.2648	1.2573	1.2165	1.2459	1.2252	AveI D		1.243 0				1.5		10.0			
PCB-12	1.2630 1.4906	1.2736	1.3396	1.3242	1.3238	AveI D		1.335 8				6.1		10.0			
PCB-12/13	1.2630 1.4906	1.2736	1.3396	1.3242	1.3238	AveI D		1.335 8				6.1		10.0			
PCB-13	1.2630 1.4906	1.2736	1.3396	1.3242	1.3238	AveI D		1.335 8				6.1		10.0			
PCB-27	1.6345 1.9961	1.8041	1.8324	1.8666	1.8627	AveI D		1.832 7				6.4		10.0			
PCB-24	1.6646 1.8042	1.6220	1.6313	1.6521	1.6916	AveI D		1.677 7				4.0		10.0			
PCB-16	1.1273 1.1805	1.0631	1.1165	1.1505	1.1336	AveI D		1.128 6				3.5		10.0			
PCB-15	1.3472 1.3444	1.2915	1.2543	1.2698	1.2345	AveI D		1.290 3				3.6		10.0			
PCB-54	1.0548 1.3194	1.3250	1.3398	1.3160	1.2850	AveI D		1.273 3				8.5		10.0			
PCB-32	1.8436 1.9277	1.7589	1.8295	1.8063	1.8286	AveI D		1.832 4				3.0		10.0			
PCB-34	1.1276 1.2003	1.1001	1.1315	1.1255	1.0816	AveI D		1.127 7				3.6		10.0			
PCB-23	1.0846 1.1334	1.1176	1.0828	1.0618	1.0076	AveI D		1.081 3				4.1		10.0			
PCB-26	1.0875 1.2670	1.1190	1.0875	1.0861	1.1056	AveI D		1.125 5				6.3		10.0			
PCB-26/29	1.0875 1.2670	1.1190	1.0875	1.0861	1.1056	AveI D		1.125 5				6.3		10.0			
PCB-29	1.0875 1.2670	1.1190	1.0875	1.0861	1.1056	AveI D		1.125 5				6.3		10.0			
PCB-25	1.3479 1.4028	1.2136	1.2173	1.2478	1.2074	AveI D		1.272 8				6.5		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-50	0.8981 0.9455	0.8303	0.8206	0.8411	0.8112	AveI D		0.857 8				6.1		10.0			
PCB-50/53	0.8981 0.9455	0.8303	0.8206	0.8411	0.8112	AveI D		0.857 8				6.1		10.0			
PCB-53	0.8981 0.9455	0.8303	0.8206	0.8411	0.8112	AveI D		0.857 8				6.1		10.0			
PCB-31	1.1698 1.2166	1.2134	1.1361	1.1021	1.0816	AveI D		1.153 2				4.9		10.0			
PCB-20	1.1256 1.3542	1.1253	1.1314	1.1457	1.1486	AveI D		1.171 8				7.7		10.0			
PCB-20/28	1.1256 1.3542	1.1253	1.1314	1.1457	1.1486	AveI D		1.171 8				7.7		10.0			
PCB-28	1.1256 1.3542	1.1253	1.1314	1.1457	1.1486	AveI D		1.171 8				7.7		10.0			
PCB-45	0.8115 0.8946	0.8159	0.8109	0.8283	0.7974	AveI D		0.826 4				4.2		10.0			
PCB-45/51	0.8115 0.8946	0.8159	0.8109	0.8283	0.7974	AveI D		0.826 4				4.2		10.0			
PCB-51	0.8115 0.8946	0.8159	0.8109	0.8283	0.7974	AveI D		0.826 4				4.2		10.0			
PCB-21	1.0181 1.2046	1.0637	1.0703	1.0575	1.0333	AveI D		1.074 6				6.2		10.0			
PCB-21/33	1.0181 1.2046	1.0637	1.0703	1.0575	1.0333	AveI D		1.074 6				6.2		10.0			
PCB-33	1.0181 1.2046	1.0637	1.0703	1.0575	1.0333	AveI D		1.074 6				6.2		10.0			
PCB-46	0.8136 0.7036	0.6810	0.7009	0.6996	0.6618	AveI D		0.710 1				7.5		10.0			
PCB-22	1.2054 1.2821	1.2400	1.1280	1.1635	1.1404	AveI D		1.193 2				5.1		10.0			
PCB-52	0.9248 0.9539	0.9077	0.9046	0.9453	0.8802	AveI D		0.919 4				3.0		10.0			
PCB-43	1.0757 1.0898	1.0358	1.0026	1.0276	0.9686	AveI D		1.033 3				4.4		10.0			
PCB-43/73	1.0757 1.0898	1.0358	1.0026	1.0276	0.9686	AveI D		1.033 3				4.4		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-73	1.0757 1.0898	1.0358	1.0026	1.0276	0.9686	AveI D		1.033 3				4.4		10.0			
PCB-36	1.0591 1.1622	1.1368	1.1155	1.1277	1.0411	AveI D		1.107 1				4.3		10.0			
PCB-49	1.1338 1.1552	1.0444	1.0314	1.0497	0.9966	AveI D		1.068 5				5.8		10.0			
PCB-49/69	1.1338 1.1552	1.0444	1.0314	1.0497	0.9966	AveI D		1.068 5				5.8		10.0			
PCB-69	1.1338 1.1552	1.0444	1.0314	1.0497	0.9966	AveI D		1.068 5				5.8		10.0			
PCB-39	1.1186 1.2687	1.1378	1.1592	1.1455	1.1190	AveI D		1.158 1				4.9		10.0			
PCB-48	0.8723 0.8658	0.8686	0.8264	0.8197	0.7866	AveI D		0.839 9				4.1		10.0			
PCB-104	1.0018 1.0650	0.9859	0.9705	1.0176	1.0114	AveI D		1.008 7				3.2		10.0			
PCB-44	0.9518 1.1484	0.9583	0.9216	0.9348	0.9237	AveI D		0.973 1				9.0		10.0			
PCB-44/47/65	0.9518 1.1484	0.9583	0.9216	0.9348	0.9237	AveI D		0.973 1				9.0		10.0			
PCB-47	0.9518 1.1484	0.9583	0.9216	0.9348	0.9237	AveI D		0.973 1				9.0		10.0			
PCB-65	0.9518 1.1484	0.9583	0.9216	0.9348	0.9237	AveI D		0.973 1				9.0		10.0			
PCB-38	1.0500 1.2340	1.0761	1.0375	1.0569	1.0513	AveI D		1.084 3				6.9		10.0			
PCB-96	1.1095 1.1878	1.0156	1.0739	1.0860	1.0913	AveI D		1.094 0				5.1		10.0			
PCB-59	1.2022 1.4146	1.1424	1.0955	1.1254	1.1312	AveI D		1.185 3				9.9		10.0			
PCB-59/62/75	1.2022 1.4146	1.1424	1.0955	1.1254	1.1312	AveI D		1.185 3				9.9		10.0			
PCB-62	1.2022 1.4146	1.1424	1.0955	1.1254	1.1312	AveI D		1.185 3				9.9		10.0			
PCB-75	1.2022 1.4146	1.1424	1.0955	1.1254	1.1312	AveI D		1.185 3				9.9		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-42	0.8113 0.8321	0.8216	0.8199	0.8129	0.7600	AveI n		0.809 7				3.1		10.0			
PCB-35	1.1864 1.1946	1.0768	1.0997	1.1174	1.1032	AveI n		1.129 7				4.3		10.0			
PCB-40	0.9522 0.9521	0.8711	0.8523	0.8523	0.8380	AveI n		0.886 3				5.9		10.0			
PCB-40/41/71	0.9522 0.9521	0.8711	0.8523	0.8523	0.8380	AveI n		0.886 3				5.9		10.0			
PCB-41	0.9522 0.9521	0.8711	0.8523	0.8523	0.8380	AveI n		0.886 3				5.9		10.0			
PCB-71	0.9522 0.9521	0.8711	0.8523	0.8523	0.8380	AveI n		0.886 3				5.9		10.0			
PCB-37	1.2446 1.1977	1.1202	1.1033	1.1214	1.0739	AveI n		1.143 5				5.6		10.0			
PCB-64	1.2757 1.1950	1.2553	1.1305	1.1287	1.0802	AveI n		1.177 6				6.6		10.0			
PCB-72	1.1072 1.1582	1.0636	1.0877	1.1033	1.0456	AveI n		1.094 3				3.6		10.0			
PCB-103	0.8736 0.8978	0.8751	0.8648	0.8708	0.8628	AveI n		0.874 1				1.4		10.0			
PCB-68	1.1713 1.3485	1.2482	1.2729	1.2691	1.2098	AveI n		1.253 3				4.8		10.0			
PCB-94	0.8000 0.7483	0.8119	0.7717	0.7293	0.7229	AveI n		0.764 0				4.8		10.0			
PCB-57	1.0250 1.1565	1.1157	1.0598	1.0897	1.0441	AveI n		1.081 8				4.5		10.0			
PCB-95	0.8097 0.8296	0.7716	0.7842	0.8098	0.8147	AveI n		0.803 3				2.7		10.0			
PCB-58	1.2802 1.4828	1.2178	1.3141	1.3624	1.2948	AveI n		1.325 3				6.8		10.0			
PCB-100	0.8527 0.9163	0.8338	0.8062	0.8251	0.8232	AveI n		0.842 9				4.6		10.0			
PCB-93	0.8527 0.9163	0.8338	0.8062	0.8251	0.8232	AveI n		0.842 9				4.6		10.0			
PCB-93/100	0.8527 0.9163	0.8338	0.8062	0.8251	0.8232	AveI n		0.842 9				4.6		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-67	1.4870 1.5547	1.4071	1.3635	1.3760	1.3499	AveI n		1.423 n				5.7		10.0			
PCB-102	0.8256 0.8497	0.8156	0.8348	0.8202	0.8111	AveI n		0.826 2				1.7		10.0			
PCB-98	0.8256 0.8497	0.8156	0.8348	0.8202	0.8111	AveI n		0.826 2				1.7		10.0			
PCB-98/102	0.8256 0.8497	0.8156	0.8348	0.8202	0.8111	AveI n		0.826 2				1.7		10.0			
PCB-63	1.1333 1.1656	1.1761	1.1205	1.1003	1.0480	AveI n		1.124 n				4.2		10.0			
PCB-88	0.8366 0.8559	0.7460	0.7888	0.7860	0.7945	AveI n		0.801 3				4.9		10.0			
PCB-88/91	0.8366 0.8559	0.7460	0.7888	0.7860	0.7945	AveI n		0.801 3				4.9		10.0			
PCB-91	0.8366 0.8559	0.7460	0.7888	0.7860	0.7945	AveI n		0.801 3				4.9		10.0			
PCB-61	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-61/70/74/76	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-70	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-74	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-76	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-84	0.7253 0.7289	0.7880	0.7158	0.7118	0.7098	AveI n		0.729 9				4.0		10.0			
PCB-66	1.2356 1.3668	1.2319	1.2361	1.2632	1.2159	AveI n		1.258 3				4.4		10.0			
PCB-55	1.4498 1.4176	1.2365	1.2959	1.2975	1.2446	AveI n		1.323 6				6.8		10.0			
PCB-89	0.8919 0.7624	0.7464	0.7786	0.7510	0.7487	AveI n		0.779 8				7.2		10.0			
PCB-56	1.3935 1.2927	1.1650	1.1869	1.2090	1.1533	AveI n		1.233 4				7.5		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-121	1.2521 1.3582	1.3178	1.2898	1.2840	1.2764	AveI n		1.296 4				2.9		10.0			
PCB-60	1.1287 1.1681	1.2454	1.0506	1.0957	1.0497	AveI n		1.123 n				6.7		10.0			
PCB-92	0.8629 0.8532	0.9060	0.8272	0.8441	0.8340	AveI n		0.854 6				3.3		10.0			
PCB-80	1.3863 1.4151	1.3253	1.2723	1.2911	1.2555	AveI n		1.324 3				4.8		10.0			
PCB-155	0.8891 0.9694	0.9655	0.9454	0.9529	0.9441	AveI n		0.944 4				3.1		10.0			
PCB-152	0.9848 1.0543	0.9951	0.9825	0.9514	0.9689	AveI n		0.989 5				3.6		10.0			
PCB-101	0.9487 1.0650	0.9340	0.9026	0.9425	0.9371	AveI n		0.955 n				5.9		10.0			
PCB-113	0.9487 1.0650	0.9340	0.9026	0.9425	0.9371	AveI n		0.955 n				5.9		10.0			
PCB-90	0.9487 1.0650	0.9340	0.9026	0.9425	0.9371	AveI n		0.955 n				5.9		10.0			
PCB-90/101/113	0.9487 1.0650	0.9340	0.9026	0.9425	0.9371	AveI n		0.955 n				5.9		10.0			
PCB-150	0.9630 1.0549	1.0080	1.0261	1.0137	1.0137	AveI n		1.013 2				2.9		10.0			
PCB-136	1.0587 1.0659	1.0008	0.9487	0.9880	1.0074	AveI n		1.011 6				4.4		10.0			
PCB-83	0.8335 0.8647	0.8116	0.8385	0.8562	0.8265	AveI n		0.838 5				2.3		10.0			
PCB-83/99	0.8335 0.8647	0.8116	0.8385	0.8562	0.8265	AveI n		0.838 5				2.3		10.0			
PCB-99	0.8335 0.8647	0.8116	0.8385	0.8562	0.8265	AveI n		0.838 5				2.3		10.0			
PCB-112	1.4446 1.4376	1.4885	1.3872	1.3506	1.3581	AveI n		1.411 1				3.9		10.0			
PCB-145	0.9965 1.0100	0.9201	0.9636	0.9587	0.9620	AveI n		0.968 5				3.3		10.0			
PCB-109	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI n		1.047 3				8.9		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-119	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI D		1.047 3				8.9		10.0			
PCB-125	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI D		1.047 3				8.9		10.0			
PCB-86	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI D		1.047 3				8.9		10.0			
PCB-86/87/97/109/119/125	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI D		1.047 3				8.9		10.0			
PCB-87	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI D		1.047 3				8.9		10.0			
PCB-97	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI D		1.047 3				8.9		10.0			
PCB-79	1.4446 1.5780	1.5277	1.3489	1.3731	1.3487	AveI D		1.436 8				6.8		10.0			
PCB-78	1.3219 1.1568	1.1964	1.1351	1.1019	1.0589	AveI D		1.161 8				7.9		10.0			
PCB-116	1.0570 1.1256	1.0304	0.9918	1.0219	1.0180	AveI D		1.040 8				4.5		10.0			
PCB-117	1.0570 1.1256	1.0304	0.9918	1.0219	1.0180	AveI D		1.040 8				4.5		10.0			
PCB-85	1.0570 1.1256	1.0304	0.9918	1.0219	1.0180	AveI D		1.040 8				4.5		10.0			
PCB-85/116/117	1.0570 1.1256	1.0304	0.9918	1.0219	1.0180	AveI D		1.040 8				4.5		10.0			
PCB-110	1.2019 1.2480	1.2270	1.1639	1.1561	1.1542	AveI D		1.191 9				3.4		10.0			
PCB-110/115	1.2019 1.2480	1.2270	1.1639	1.1561	1.1542	AveI D		1.191 9				3.4		10.0			
PCB-115	1.2019 1.2480	1.2270	1.1639	1.1561	1.1542	AveI D		1.191 9				3.4		10.0			
PCB-81	1.1198 1.0938	1.0960	1.0617	1.0764	1.0336	AveI D		1.080 2				2.8		10.0			
PCB-82	0.8343 0.8464	0.8471	0.8169	0.8239	0.8133	AveI D		0.830 3				1.8		10.0			
PCB-148	0.7646 0.8045	0.7251	0.7535	0.7521	0.7619	AveI D		0.760 3				3.4		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-77	1.1688 1.1358	1.1149	1.0365	1.0577	0.9878	AveI n		1.083 6				6.3		10.0			
PCB-111	1.1586 1.2376	1.3369	1.1635	1.1851	1.1934	AveI n		1.212 5				5.5		10.0			
PCB-135	0.7285 0.7672	0.7029	0.7063	0.7244	0.7240	AveI n		0.725 6				3.2		10.0			
PCB-135/151	0.7285 0.7672	0.7029	0.7063	0.7244	0.7240	AveI n		0.725 6				3.2		10.0			
PCB-151	0.7285 0.7672	0.7029	0.7063	0.7244	0.7240	AveI n		0.725 6				3.2		10.0			
PCB-120	1.5296 1.5558	1.4689	1.4158	1.4553	1.4322	AveI n		1.476 2				3.7		10.0			
PCB-154	0.7411 0.8586	0.8405	0.7996	0.8196	0.8180	AveI n		0.812 9				5.0		10.0			
PCB-144	0.8256 0.7980	0.7839	0.7628	0.7715	0.7696	AveI n		0.785 2				3.0		10.0			
PCB-147	0.9658 0.9768	0.8446	0.8442	0.8692	0.8693	AveI n		0.895 0				6.7		10.0			
PCB-147/149	0.9658 0.9768	0.8446	0.8442	0.8692	0.8693	AveI n		0.895 0				6.7		10.0			
PCB-149	0.9658 0.9768	0.8446	0.8442	0.8692	0.8693	AveI n		0.895 0				6.7		10.0			
PCB-134	0.8263 0.7959	0.8014	0.8010	0.7921	0.7634	AveI n		0.796 7				2.5		10.0			
PCB-134/143	0.8263 0.7959	0.8014	0.8010	0.7921	0.7634	AveI n		0.796 7				2.5		10.0			
PCB-143	0.8263 0.7959	0.8014	0.8010	0.7921	0.7634	AveI n		0.796 7				2.5		10.0			
PCB-108	1.1047 1.2848	1.1338	1.1073	1.1117	1.1009	AveI n		1.140 5				6.3		10.0			
PCB-108/124	1.1047 1.2848	1.1338	1.1073	1.1117	1.1009	AveI n		1.140 5				6.3		10.0			
PCB-124	1.1047 1.2848	1.1338	1.1073	1.1117	1.1009	AveI n		1.140 5				6.3		10.0			
PCB-139	0.8698 0.9549	0.8683	0.8422	0.8657	0.8604	AveI n		0.876 9				4.5		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-139/140	0.8698 0.9549	0.8683	0.8422	0.8657	0.8604	AveI n		0.876 9				4.5		10.0			
PCB-140	0.8698 0.9549	0.8683	0.8422	0.8657	0.8604	AveI n		0.876 9				4.5		10.0			
PCB-107	1.2904 1.2477	1.1149	1.2342	1.2247	1.1606	AveI n		1.212 1				5.2		10.0			
PCB-131	++++ 0.7939	0.7383	0.7244	0.7426	0.7522	AveI n		0.750 3				3.5		10.0			
PCB-123	1.0853 1.1357	1.1455	0.9540	1.0597	1.0534	AveI n		1.072 2				6.5		10.0			
PCB-106	1.1069 1.1546	1.0523	1.0740	1.0674	1.0482	AveI n		1.083 9				3.7		10.0			
PCB-142	0.7103 0.8062	0.7184	0.7532	0.7662	0.7499	AveI n		0.750 7				4.6		10.0			
PCB-118	1.2183 1.2440	1.2619	1.1653	1.1919	1.1519	AveI n		1.205 5				3.6		10.0			
PCB-132	0.8263 0.7367	0.7289	0.7517	0.7328	0.7172	AveI n		0.748 9				5.3		10.0			
PCB-122	0.9558 0.9670	1.0294	0.8926	0.9780	0.9174	AveI n		0.956 7				5.0		10.0			
PCB-114	1.0610 1.1325	1.1067	1.0582	1.0904	1.0562	AveI n		1.084 2				2.9		10.0			
PCB-188	1.1156 1.1562	1.1704	1.1401	1.1253	1.1021	AveI n		1.135 0				2.3		10.0			
PCB-133	0.7310 0.8077	0.8763	0.8206	0.7984	0.8233	AveI n		0.809 6				5.8		10.0			
PCB-179	1.5749 1.4293	1.4195	1.3854	1.3901	1.3662	AveI n		1.427 6				5.3		10.0			
PCB-165	0.9540 1.0449	1.0900	1.0214	1.0299	1.0082	AveI n		1.024 7				4.4		10.0			
PCB-105	1.2867 1.2230	1.1805	1.1299	1.1716	1.1358	AveI n		1.187 9				5.0		10.0			
PCB-146	0.9491 1.0049	0.9807	0.9470	0.9459	0.9546	AveI n		0.963 7				2.5		10.0			
PCB-184	1.2839 1.4655	1.3652	1.3444	1.3829	1.3613	AveI n		1.367 2				4.3		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-161	1.0600 1.1917	1.1649	1.0974	1.1477	1.1109	AveI n		1.128 8				4.3		10.0			
PCB-176	1.3664 1.2480	1.1518	1.2043	1.2425	1.1853	AveI n		1.233 1				6.0		10.0			
PCB-153	1.0508 1.1858	1.0219	1.1173	1.1001	1.0868	AveI n		1.093 8				5.2		10.0			
PCB-153/168	1.0508 1.1858	1.0219	1.1173	1.1001	1.0868	AveI n		1.093 8				5.2		10.0			
PCB-168	1.0508 1.1858	1.0219	1.1173	1.1001	1.0868	AveI n		1.093 8				5.2		10.0			
PCB-141	0.9407 0.8523	0.9151	0.8464	0.8514	0.8472	AveI n		0.875 5				4.7		10.0			
PCB-186	1.5061 1.5480	1.3932	1.4313	1.5084	1.4554	AveI n		1.473 7				3.9		10.0			
PCB-130	0.7258 0.6913	0.7312	0.6983	0.6982	0.6859	AveI n		0.705 1				2.7		10.0			
PCB-127	1.1110 1.1760	1.1837	1.0836	1.1718	1.1102	AveI n		1.139 4				3.8		10.0			
PCB-137	0.7492 0.7964	0.7547	0.7964	0.8113	0.7519	AveI n		0.776 7				3.6		10.0			
PCB-164	1.0491 1.0752	1.0276	1.0023	1.0331	1.0422	AveI n		1.038 2				2.3		10.0			
PCB-129	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-129/138/160/163	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-138	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-160	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-163	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-158	1.3613 1.3135	1.3421	1.2753	1.3085	1.2656	AveI n		1.311 0				2.8		10.0			
PCB-178	0.8513 0.9163	0.9050	0.8951	0.9086	0.8915	AveI n		0.894 6				2.6		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-175	1.0419 0.9670	0.9241	0.8934	0.9568	0.9313	AveI n		0.952 4				5.3		10.0			
PCB-126	0.9955 1.1577	1.0940	1.0804	1.1528	1.1051	AveI n		1.097 6				5.4		10.0			
PCB-128	0.9472 1.0957	0.9282	0.9352	0.9992	0.9922	AveI n		0.982 9				6.4		10.0			
PCB-128/166	0.9472 1.0957	0.9282	0.9352	0.9992	0.9922	AveI n		0.982 9				6.4		10.0			
PCB-166	0.9472 1.0957	0.9282	0.9352	0.9992	0.9922	AveI n		0.982 9				6.4		10.0			
PCB-187	1.0455 1.1457	1.1219	1.0756	1.1255	1.0967	AveI n		1.101 8				3.3		10.0			
PCB-182	0.8297 0.9568	0.8873	0.9545	0.9855	0.9345	AveI n		0.924 7				6.1		10.0			
PCB-183	1.0823 0.9576	1.0673	0.9173	0.9521	0.9184	AveI n		0.982 5				7.5		10.0			
PCB-183/185	1.0823 0.9576	1.0673	0.9173	0.9521	0.9184	AveI n		0.982 5				7.5		10.0			
PCB-185	1.0823 0.9576	1.0673	0.9173	0.9521	0.9184	AveI n		0.982 5				7.5		10.0			
PCB-174	1.0171 1.0197	0.8541	0.9397	0.9984	0.9560	AveI n		0.964 2				6.5		10.0			
PCB-159	1.3182 1.4701	1.4065	1.3956	1.3722	1.3512	AveI n		1.385 6				3.8		10.0			
PCB-162	1.2486 1.2460	1.3071	1.2846	1.2413	1.2150	AveI n		1.257 1				2.6		10.0			
PCB-177	1.0068 0.9782	0.9833	0.9620	0.9805	0.9528	AveI n		0.977 3				1.9		10.0			
PCB-202	0.9147 1.0834	1.0007	1.0393	1.1166	1.0605	AveI n		1.035 9				6.9		10.0			
PCB-167	1.1252 1.1500	1.0891	1.1410	1.1065	1.0835	AveI n		1.115 9				2.4		10.0			
PCB-181	0.9642 0.9727	1.0238	0.8822	0.9386	0.9218	AveI n		0.950 5				5.1		10.0			
PCB-171	1.0178 0.9405	1.0283	0.8449	0.8944	0.8760	AveI n		0.933 6				8.1		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-171/173	1.0178 0.9405	1.0283	0.8449	0.8944	0.8760	AveI D		0.933 6				8.1		10.0			
PCB-173	1.0178 0.9405	1.0283	0.8449	0.8944	0.8760	AveI D		0.933 6				8.1		10.0			
PCB-201	0.9271 0.9883	0.9933	0.9517	1.0177	0.9741	AveI D		0.975 4				3.3		10.0			
PCB-156	1.0318 1.1726	1.1406	1.1084	1.1139	1.0952	AveI D		1.110 4				4.3		10.0			
PCB-156/157	1.0318 1.1726	1.1406	1.1084	1.1139	1.0952	AveI D		1.110 4				4.3		10.0			
PCB-157	1.0318 1.1726	1.1406	1.1084	1.1139	1.0952	AveI D		1.110 4				4.3		10.0			
PCB-204	1.0650 1.0483	1.0488	1.0205	1.0780	1.0306	AveI D		1.048 5				2.0		10.0			
PCB-197	1.2289 1.1291	1.1621	1.0930	1.1741	1.0875	AveI D		1.145 8				4.7		10.0			
PCB-200	0.9228 1.0127	1.0396	1.0401	1.0354	0.9924	AveI D		1.007 2				4.5		10.0			
PCB-172	0.8899 0.8314	0.8689	0.8197	0.8741	0.8273	AveI D		0.851 9				3.4		10.0			
PCB-192	1.2465 1.3882	1.3831	1.3289	1.3991	1.3294	AveI D		1.345 9				4.3		10.0			
PCB-180	1.1268 1.2128	1.2009	1.1371	1.1877	1.1402	AveI D		1.167 6				3.2		10.0			
PCB-180/193	1.1268 1.2128	1.2009	1.1371	1.1877	1.1402	AveI D		1.167 6				3.2		10.0			
PCB-193	1.1268 1.2128	1.2009	1.1371	1.1877	1.1402	AveI D		1.167 6				3.2		10.0			
PCB-191	1.1859 1.3248	1.3435	1.2644	1.3367	1.2793	AveI D		1.289 1				4.6		10.0			
PCB-170	1.2183 1.1842	1.2101	1.1713	1.2049	1.1303	AveI D		1.186 5				2.7		10.0			
PCB-190	1.3507 1.3369	1.3732	1.3236	1.3336	1.2755	AveI D		1.332 2				2.5		10.0			
PCB-169	1.1960 1.1900	1.1091	1.1548	1.1930	1.1341	AveI D		1.162 8				3.1		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-198	0.8819 0.8966	0.8635	0.8456	0.8829	0.8482	AveI n		0.869 8				2.4		10.0			
PCB-198/199	0.8819 0.8966	0.8635	0.8456	0.8829	0.8482	AveI n		0.869 8				2.4		10.0			
PCB-199	0.8819 0.8966	0.8635	0.8456	0.8829	0.8482	AveI n		0.869 8				2.4		10.0			
PCB-196	0.7745 0.7649	0.8087	0.7819	0.7962	0.7576	AveI n		0.780 6				2.5		10.0			
PCB-203	0.9457 0.9311	0.8842	0.9266	0.9632	0.9244	AveI n		0.929 2				2.8		10.0			
PCB-208	1.1091 1.1453	1.1787	1.1650	1.1300	1.0966	AveI n		1.137 4				2.8		10.0			
PCB-195	0.7404 0.8735	0.8795	0.8276	0.8233	0.8136	AveI n		0.826 3				6.1		10.0			
PCB-189	0.9373 1.0020	0.9455	0.9636	0.9788	0.9527	AveI n		0.963 3				2.5		10.0			
PCB-207	1.5361 1.3709	1.3685	1.3439	1.3392	1.2949	AveI n		1.375 6				6.1		10.0			
PCB-194	1.0329 0.9836	0.9991	0.9368	0.9517	0.9369	AveI n		0.973 5				4.0		10.0			
PCB-205	1.0922 1.1256	1.1124	1.0652	1.0742	1.0570	AveI n		1.087 8				2.5		10.0			
PCB-206	1.5800 1.2761	1.3742	1.2635	1.2743	1.2393	AveI n		1.334 6				9.7		10.0			
PCB-209	1.0976 1.1141	1.0962	1.1180	1.1025	1.0739	AveI n		1.100 4				1.4		10.0			
PCB-1L	1.6566 1.5908	1.6089	1.5886	1.6421	1.5780	Ave		1.610 8				2.0		20.0			
PCB-3L	1.5953 1.6239	1.5794	1.5767	1.5834	1.5761	Ave		1.589 1				1.2		20.0			
PCB-4L	0.6664 0.6398	0.6529	0.6327	0.6584	0.6350	Ave		0.647 5				2.1		20.0			
PCB-19L	0.6231 0.6159	0.6466	0.6417	0.6300	0.6140	Ave		0.628 5				2.1		20.0			
PCB-15L	1.0704 1.1315	1.0579	1.0555	1.0650	1.0933	Ave		1.078 9				2.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-54L	0.5699 0.5412	0.5686	0.5307	0.5781	0.5489	Ave		0.556 2				3.4		20.0			
PCB-104L	1.2444 1.1444	1.2293	1.2593	1.2347	1.1843	Ave		1.216 1				3.6		20.0			
PCB-37L	0.8651 0.8981	0.8778	0.8586	0.8698	0.8801	Ave		0.874 9				1.6		20.0			
PCB-155L	1.1312 0.9905	1.0966	1.1397	1.1068	1.0459	Ave		1.085 1				5.2		20.0			
PCB-81L	1.2317 1.3290	1.2156	1.2247	1.2302	1.2505	Ave		1.247 0				3.4		20.0			
PCB-77L	1.3180 1.3199	1.2901	1.3060	1.3076	1.3854	Ave		1.321 2				2.5		20.0			
PCB-123L	0.9681 1.0191	0.9224	0.9932	0.9567	0.9795	Ave		0.973 1				3.4		20.0			
PCB-118L	1.0043 1.0158	0.9508	1.0600	1.0164	1.0137	Ave		1.010 2				3.5		20.0			
PCB-114L	0.9805 1.0251	0.9866	1.0002	0.9802	0.9966	Ave		0.994 9				1.7		20.0			
PCB-188L	1.2769 1.3367	1.2959	1.3275	1.3235	1.3195	Ave		1.313 3				1.7		20.0			
PCB-105L	0.9500 0.9623	0.9252	0.9683	0.9499	0.9530	Ave		0.951 4				1.6		20.0			
PCB-126L	0.9296 0.9915	0.8901	0.9531	0.9453	0.9536	Ave		0.943 9				3.5		20.0			
PCB-202L	1.0089 0.9521	1.0043	1.0139	0.9551	0.9566	Ave		0.981 8				3.1		20.0			
PCB-167L	1.2926 1.2203	1.2777	1.2672	1.2630	1.2226	Ave		1.257 2				2.3		20.0			
PCB-156L	1.2170 1.1817	1.2310	1.2435	1.2168	1.1737	Ave		1.210 6				2.3		20.0			
PCB-156L/157L	1.2170 1.1817	1.2310	1.2435	1.2168	1.1737	Ave		1.210 6				2.3		20.0			
PCB-157L	1.2170 1.1817	1.2310	1.2435	1.2168	1.1737	Ave		1.210 6				2.3		20.0			
PCB-170L	0.8549 0.7912	0.8418	0.8681	0.8351	0.8262	Ave		0.836 2				3.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

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Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

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	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-169L	1.3034 1.2180	1.2624	1.2196	1.2352	1.2245	Ave		1.243 9				2.7		20.0			
PCB-208L	0.9436 0.9729	0.9445	0.9572	0.9529	0.9744	Ave		0.957 6				1.4		20.0			
PCB-189L	1.4252 1.4773	1.4471	1.4284	1.4364	1.4341	Ave		1.441 4				1.3		20.0			
PCB-205L	1.1647 1.1799	1.1834	1.1745	1.1892	1.1796	Ave		1.178 6				0.7		20.0			
PCB-206L	0.6918 0.6949	0.6861	0.7012	0.6995	0.6947	Ave		0.694 7				0.8		20.0			
PCB-209L	0.6641 0.6555	0.6610	0.6824	0.6737	0.6647	Ave		0.666 9				1.4		20.0			
PCB-8L			1.3272	1.1709	1.1217	AveI n		1.206 6				8.9		20.0			
PCB-28L			1.2181	0.9873	0.9428	Ave		1.049 4				14.1		20.0			
PCB-95L			0.7435	0.7172	0.7047	AveI n		0.721 8				2.7		20.0			
PCB-79L			1.0367	0.9978	0.9710	AveI n		1.001 8				3.3		20.0			
PCB-111L			1.5745	1.3005	1.2347	Ave		1.369 9				13.2		20.0			
PCB-153L			1.1123	0.8406	0.7979	AveI n		0.916 9				18.6		20.0			
PCB-178L			1.1585	0.9861	0.9494	Ave		1.031 3				10.8		20.0			
PCB-159L	0.4887 0.5115	0.5173	0.5067	0.5265	0.5202	AveI n		0.511 8				2.6		20.0			

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RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87130/1	d2240531pi1a.d
Level 2	IC 140-87130/2	d2240531pi2a.d
Level 3	IC 140-87130/3	d2240531pi3.d
Level 4	IC 140-87130/4	d2240531pi4.d
Level 5	IC 140-87130/5	d2240531pi5.d
Level 6	IC 140-87130/6	d2240531pi6.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1		AveID	87624 +++++	167653	796059	8260359	68569399	0.500 +++++	1.00	5.00	50.0	400
PCB-2		AveID	82442 353084495	152137	768397	7886042	67117936	0.500 2000	1.00	5.00	50.0	400
PCB-3		AveID	87263 360356023	155451	799957	8044849	67267765	0.500 2000	1.00	5.00	50.0	400
PCB-4		AveID	36374 152709290	71281	337353	3479874	27890333	0.500 2000	1.00	5.00	50.0	400
PCB-10		AveID	48502 219606512	90939	471835	4792674	38655568	0.500 2000	1.00	5.00	50.0	400
PCB-9		AveID	51501 234989711	101769	514126	5083530	42181873	0.500 2000	1.00	5.00	50.0	400
PCB-7		AveID	58157 231331814	99790	476841	4950093	41182455	0.500 2000	1.00	5.00	50.0	400
PCB-6		AveID	62834 255647445	108771	517825	5408103	44979638	0.500 2000	1.00	5.00	50.0	400
PCB-5		AveID	51519 222818417	93073	457479	4844644	40020538	0.500 2000	1.00	5.00	50.0	400
PCB-8		AveID	61977 268244897	108520	552662	5621585	47031816	0.500 2000	1.00	5.00	50.0	400
PCB-19		AveID	27248 94419028	37931	215976	2152324	18011092	0.500 2000	1.00	5.00	50.0	400
PCB-14		AveID	55107 231080321	95706	492912	5066034	41013941	0.500 2000	1.00	5.00	50.0	400
PCB-18		AveID	63024 272933390	119625	588680	6054511	49683955	1.00 4000	2.00	10.0	100	800
PCB-18/30		AveID	63024 272933390	119625	588680	6054511	49683955	1.00 4000	2.00	10.0	100	800
PCB-30		AveID	63024 272933390	119625	588680	6054511	49683955	1.00 4000	2.00	10.0	100	800
PCB-11		AveID	53494 216275260	83627	452818	4598736	38153224	0.500 2000	1.00	5.00	50.0	400

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ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-17		AveID	23167 91948427	43052	206164	2122247	17339157	0.500 2000	1.00	5.00	50.0	400
PCB-12		AveID	97175 468162119	181643	943457	9487445	80149527	1.00 4000	2.00	10.0	100	800
PCB-12/13		AveID	97175 468162119	181643	943457	9487445	80149527	1.00 4000	2.00	10.0	100	800
PCB-13		AveID	97175 468162119	181643	943457	9487445	80149527	1.00 4000	2.00	10.0	100	800
PCB-27		AveID	30334 145107554	61773	310541	3179572	26360662	0.500 2000	1.00	5.00	50.0	400
PCB-24		AveID	30894 131161059	55539	276459	2814319	23939751	0.500 2000	1.00	5.00	50.0	400
PCB-16		AveID	20922 85816817	36402	189210	1959828	16041877	0.500 2000	1.00	5.00	50.0	400
PCB-15		AveID	63884 269724618	113904	552286	5621988	47283812	0.500 2000	1.00	5.00	50.0	400
PCB-54		AveID	17905 84275390	39894	187801	2056772	16256949	0.500 2000	1.00	5.00	50.0	400
PCB-32		AveID	34215 140138189	60227	310058	3076908	25877431	0.500 2000	1.00	5.00	50.0	400
PCB-34		AveID	81792 373345873	145822	741948	7616885	63733574	0.500 2000	1.00	5.00	50.0	400
PCB-23		AveID	78676 352538213	148152	710024	7186368	59373148	0.500 2000	1.00	5.00	50.0	400
PCB-26		AveID	157772 788218448	296674	1426183	14701213	130294664	1.00 4000	2.00	10.0	100	800
PCB-26/29		AveID	157772 788218448	296674	1426183	14701213	130294664	1.00 4000	2.00	10.0	100	800
PCB-29		AveID	157772 788218448	296674	1426183	14701213	130294664	1.00 4000	2.00	10.0	100	800
PCB-25		AveID	97778 436326451	160869	798213	8444656	71143057	0.500 2000	1.00	5.00	50.0	400
PCB-50		AveID	96228 424571971	160495	797957	8406058	70687479	1.00 4000	2.00	10.0	100	800
PCB-50/53		AveID	96228 424571971	160495	797957	8406058	70687479	1.00 4000	2.00	10.0	100	800
PCB-53		AveID	96228 424571971	160495	797957	8406058	70687479	1.00 4000	2.00	10.0	100	800
PCB-31		AveID	84854 378421846	160841	744974	7458669	63731167	0.500 2000	1.00	5.00	50.0	400
PCB-20		AveID	163294	298348	1483821	15507992	135356691	1.00	2.00	10.0	100	800

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			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			842454191					4000				
PCB-20/28		AveID	163294 842454191	298348	1483821	15507992	135356691	1.00 4000	2.00	10.0	100	800
PCB-28		AveID	163294 842454191	298348	1483821	15507992	135356691	1.00 4000	2.00	10.0	100	800
PCB-45		AveID	86958 401693892	157715	788555	8278212	69485788	1.00 4000	2.00	10.0	100	800
PCB-45/51		AveID	86958 401693892	157715	788555	8278212	69485788	1.00 4000	2.00	10.0	100	800
PCB-51		AveID	86958 401693892	157715	788555	8278212	69485788	1.00 4000	2.00	10.0	100	800
PCB-21		AveID	147710 749389733	281992	1403700	14314146	121766982	1.00 4000	2.00	10.0	100	800
PCB-21/33		AveID	147710 749389733	281992	1403700	14314146	121766982	1.00 4000	2.00	10.0	100	800
PCB-33		AveID	147710 749389733	281992	1403700	14314146	121766982	1.00 4000	2.00	10.0	100	800
PCB-46		AveID	43592 157969398	65825	340774	3495887	28834506	0.500 2000	1.00	5.00	50.0	400
PCB-22		AveID	87442 398788093	164376	739669	7874512	67196694	0.500 2000	1.00	5.00	50.0	400
PCB-52		AveID	49547 214166805	87733	439829	4723711	38354033	0.500 2000	1.00	5.00	50.0	400
PCB-43		AveID	115263 489361192	200228	974936	10270296	84403637	1.00 4000	2.00	10.0	100	800
PCB-43/73		AveID	115263 489361192	200228	974936	10270296	84403637	1.00 4000	2.00	10.0	100	800
PCB-73		AveID	115263 489361192	200228	974936	10270296	84403637	1.00 4000	2.00	10.0	100	800
PCB-36		AveID	76826 361500062	150690	731454	7632212	61342563	0.500 2000	1.00	5.00	50.0	400
PCB-49		AveID	121491 518749137	201895	1002960	10490769	86848614	1.00 4000	2.00	10.0	100	800
PCB-49/69		AveID	121491 518749137	201895	1002960	10490769	86848614	1.00 4000	2.00	10.0	100	800
PCB-69		AveID	121491 518749137	201895	1002960	10490769	86848614	1.00 4000	2.00	10.0	100	800
PCB-39		AveID	81144 394634471	150829	760165	7752224	65934116	0.500 2000	1.00	5.00	50.0	400
PCB-48		AveID	46735 194390518	83950	401794	4096041	34271968	0.500 2000	1.00	5.00	50.0	400

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			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-104		AveID	34754 148594312	61528	306050	3284431	26991793	0.500 2000	1.00	5.00	50.0	400
PCB-44		AveID	152988 773503972	277857	1344248	14013306	120748315	1.50 6000	3.00	15.0	150	1200
PCB-44/47/65		AveID	152988 773503972	277857	1344248	14013306	120748315	1.50 6000	3.00	15.0	150	1200
PCB-47		AveID	152988 773503972	277857	1344248	14013306	120748315	1.50 6000	3.00	15.0	150	1200
PCB-65		AveID	152988 773503972	277857	1344248	14013306	120748315	1.50 6000	3.00	15.0	150	1200
PCB-38		AveID	76168 383822577	142649	680342	7153021	61948482	0.500 2000	1.00	5.00	50.0	400
PCB-96		AveID	38490 165718292	63380	338671	3505288	29124757	0.500 2000	1.00	5.00	50.0	400
PCB-59		AveID	193231 952848187	331263	1597958	16871670	147870904	1.50 6000	3.00	15.0	150	1200
PCB-59/62/75		AveID	193231 952848187	331263	1597958	16871670	147870904	1.50 6000	3.00	15.0	150	1200
PCB-62		AveID	193231 952848187	331263	1597958	16871670	147870904	1.50 6000	3.00	15.0	150	1200
PCB-75		AveID	193231 952848187	331263	1597958	16871670	147870904	1.50 6000	3.00	15.0	150	1200
PCB-42		AveID	43465 186831580	79410	398654	4062353	33116229	0.500 2000	1.00	5.00	50.0	400
PCB-35		AveID	86063 371576451	142742	721094	7562291	65004472	0.500 2000	1.00	5.00	50.0	400
PCB-40		AveID	153053 641280083	252584	1243102	12777370	109543755	1.50 6000	3.00	15.0	150	1200
PCB-40/41/71		AveID	153053 641280083	252584	1243102	12777370	109543755	1.50 6000	3.00	15.0	150	1200
PCB-41		AveID	153053 641280083	252584	1243102	12777370	109543755	1.50 6000	3.00	15.0	150	1200
PCB-71		AveID	153053 641280083	252584	1243102	12777370	109543755	1.50 6000	3.00	15.0	150	1200
PCB-37		AveID	90285 372528859	148485	723492	7589418	63280259	0.500 2000	1.00	5.00	50.0	400
PCB-64		AveID	68347 268312321	121326	549661	5640018	47066920	0.500 2000	1.00	5.00	50.0	400
PCB-72		AveID	59320 260036448	102800	528848	5513402	45559809	0.500 2000	1.00	5.00	50.0	400
PCB-103		AveID	30305	54610	272723	2810660	23026262	0.500	1.00	5.00	50.0	400

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RESPONSE AND CONCENTRATION

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ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			125264432					2000				
PCB-68		AveID	62752 302767134	120639	618865	6342042	52714819	0.500 2000	1.00	5.00	50.0	400
PCB-94		AveID	27753 104404112	50670	243354	2353932	19293687	0.500 2000	1.00	5.00	50.0	400
PCB-57		AveID	54918 259652587	107838	515271	5445573	45493698	0.500 2000	1.00	5.00	50.0	400
PCB-95		AveID	28089 115750524	48155	247318	2613771	21743452	0.500 2000	1.00	5.00	50.0	400
PCB-58		AveID	68587 332927040	117702	638910	6808166	56416890	0.500 2000	1.00	5.00	50.0	400
PCB-100		AveID	59164 255671436	104065	508477	5326508	43937859	1.00 4000	2.00	10.0	100	800
PCB-93		AveID	59164 255671436	104065	508477	5326508	43937859	1.00 4000	2.00	10.0	100	800
PCB-93/100		AveID	59164 255671436	104065	508477	5326508	43937859	1.00 4000	2.00	10.0	100	800
PCB-67		AveID	79670 349063048	136003	662955	6875936	58816773	0.500 2000	1.00	5.00	50.0	400
PCB-102		AveID	57283 237097257	101797	526504	5294749	43293553	1.00 4000	2.00	10.0	100	800
PCB-98		AveID	57283 237097257	101797	526504	5294749	43293553	1.00 4000	2.00	10.0	100	800
PCB-98/102		AveID	57283 237097257	101797	526504	5294749	43293553	1.00 4000	2.00	10.0	100	800
PCB-63		AveID	60720 261710211	113672	544766	5498511	45663130	0.500 2000	1.00	5.00	50.0	400
PCB-88		AveID	58044 238830684	93115	497525	5073604	42407684	1.00 4000	2.00	10.0	100	800
PCB-88/91		AveID	58044 238830684	93115	497525	5073604	42407684	1.00 4000	2.00	10.0	100	800
PCB-91		AveID	58044 238830684	93115	497525	5073604	42407684	1.00 4000	2.00	10.0	100	800
PCB-61		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600
PCB-61/70/74/76		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600
PCB-70		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600
PCB-74		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-76		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600
PCB-84		AveID	25161 101701980	49178	225737	2297413	18942616	0.500 2000	1.00	5.00	50.0	400
PCB-66		AveID	66199 306877309	119065	600993	6312222	52981003	0.500 2000	1.00	5.00	50.0	400
PCB-55		AveID	77673 318274904	119512	630084	6483526	54230284	0.500 2000	1.00	5.00	50.0	400
PCB-89		AveID	30940 106371354	46581	245536	2424086	19980724	0.500 2000	1.00	5.00	50.0	400
PCB-56		AveID	74659 290239949	112603	577077	6041547	50251634	0.500 2000	1.00	5.00	50.0	400
PCB-121		AveID	43439 189494866	82240	406765	4144482	34064929	0.500 2000	1.00	5.00	50.0	400
PCB-60		AveID	60472 262262219	120369	510799	5475280	45739750	0.500 2000	1.00	5.00	50.0	400
PCB-92		AveID	29937 119034801	56541	260863	2724348	22258079	0.500 2000	1.00	5.00	50.0	400
PCB-80		AveID	74270 317715187	128092	618593	6451950	54703996	0.500 2000	1.00	5.00	50.0	400
PCB-155		AveID	28040 117062772	53749	269852	2757196	22251730	0.500 2000	1.00	5.00	50.0	400
PCB-152		AveID	31058 127316142	55399	280445	2752865	22836429	0.500 2000	1.00	5.00	50.0	400
PCB-101		AveID	98736 445746570	174859	853991	9126697	75031128	1.50 6000	3.00	15.0	150	1200
PCB-113		AveID	98736 445746570	174859	853991	9126697	75031128	1.50 6000	3.00	15.0	150	1200
PCB-90		AveID	98736 445746570	174859	853991	9126697	75031128	1.50 6000	3.00	15.0	150	1200
PCB-90/101/113		AveID	98736 445746570	174859	853991	9126697	75031128	1.50 6000	3.00	15.0	150	1200
PCB-150		AveID	30371 127390982	56112	292889	2933125	23890856	0.500 2000	1.00	5.00	50.0	400
PCB-136		AveID	33387 128715901	55716	270798	2858801	23743749	0.500 2000	1.00	5.00	50.0	400
PCB-83		AveID	57832 241281713	101299	528892	5527064	44113984	1.00 4000	2.00	10.0	100	800
PCB-83/99		AveID	57832 241281713	101299	528892	5527064	44113984	1.00 4000	2.00	10.0	100	800
PCB-99		AveID	57832	101299	528892	5527064	44113984	1.00	2.00	10.0	100	800

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			241281713					4000				
PCB-112		AveID	50114 200578005	92894	437482	4359398	36244741	0.500 2000	1.00	5.00	50.0	400
PCB-145		AveID	31426 121971700	51222	275033	2773933	22672411	0.500 2000	1.00	5.00	50.0	400
PCB-109		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-119		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-125		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-86		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-86/87/97/109/119/125		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-87		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-97		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-79		AveID	77395 354295498	147654	655831	6861599	58766091	0.500 2000	1.00	5.00	50.0	400
PCB-78		AveID	70824 259722209	115640	551876	5506314	46136888	0.500 2000	1.00	5.00	50.0	400
PCB-116		AveID	110009 471144048	192911	938339	9894792	81508464	1.50 6000	3.00	15.0	150	1200
PCB-117		AveID	110009 471144048	192911	938339	9894792	81508464	1.50 6000	3.00	15.0	150	1200
PCB-85		AveID	110009 471144048	192911	938339	9894792	81508464	1.50 6000	3.00	15.0	150	1200
PCB-85/116/117		AveID	110009 471144048	192911	938339	9894792	81508464	1.50 6000	3.00	15.0	150	1200
PCB-110		AveID	83392 348252734	153152	734092	7463251	61605039	1.00 4000	2.00	10.0	100	800
PCB-110/115		AveID	83392 348252734	153152	734092	7463251	61605039	1.00 4000	2.00	10.0	100	800
PCB-115		AveID	83392 348252734	153152	734092	7463251	61605039	1.00 4000	2.00	10.0	100	800
PCB-81		AveID	57961 246419766	102785	499582	5214743	42731408	0.500 2000	1.00	5.00	50.0	400
PCB-82		AveID	28943 118090307	52864	257633	2659391	21705824	0.500 2000	1.00	5.00	50.0	400

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-148		AveID	24113 97145990	40368	215061	2176255	17957394	0.500 2000	1.00	5.00	50.0	400
PCB-77		AveID	64742 254122136	110963	520129	5446719	45244571	0.500 2000	1.00	5.00	50.0	400
PCB-111		AveID	40194 172673938	83431	366927	3825096	31849869	0.500 2000	1.00	5.00	50.0	400
PCB-135		AveID	45950 185302824	78265	403202	4192182	34125616	1.00 4000	2.00	10.0	100	800
PCB-135/151		AveID	45950 185302824	78265	403202	4192182	34125616	1.00 4000	2.00	10.0	100	800
PCB-151		AveID	45950 185302824	78265	403202	4192182	34125616	1.00 4000	2.00	10.0	100	800
PCB-120		AveID	53063 217057638	91670	446498	4697232	38221427	0.500 2000	1.00	5.00	50.0	400
PCB-154		AveID	23372 103679991	46790	228222	2371495	19278459	0.500 2000	1.00	5.00	50.0	400
PCB-144		AveID	26036 96362038	43641	217725	2232331	18139372	0.500 2000	1.00	5.00	50.0	400
PCB-147		AveID	85550 357302891	137928	675152	7067120	59645820	1.00 4000	2.00	10.0	100	800
PCB-147/149		AveID	85550 357302891	137928	675152	7067120	59645820	1.00 4000	2.00	10.0	100	800
PCB-149		AveID	85550 357302891	137928	675152	7067120	59645820	1.00 4000	2.00	10.0	100	800
PCB-134		AveID	73190 291141501	130881	640616	6440496	52378003	1.00 4000	2.00	10.0	100	800
PCB-134/143		AveID	73190 291141501	130881	640616	6440496	52378003	1.00 4000	2.00	10.0	100	800
PCB-143		AveID	73190 291141501	130881	640616	6440496	52378003	1.00 4000	2.00	10.0	100	800
PCB-108		AveID	114382 576858278	208570	1034062	10706077	91375734	1.00 4000	2.00	10.0	100	800
PCB-108/124		AveID	114382 576858278	208570	1034062	10706077	91375734	1.00 4000	2.00	10.0	100	800
PCB-124		AveID	114382 576858278	208570	1034062	10706077	91375734	1.00 4000	2.00	10.0	100	800
PCB-139		AveID	77045 349280537	141796	673528	7038694	59038438	1.00 4000	2.00	10.0	100	800
PCB-139/140		AveID	77045 349280537	141796	673528	7038694	59038438	1.00 4000	2.00	10.0	100	800
PCB-140		AveID	77045	141796	673528	7038694	59038438	1.00	2.00	10.0	100	800

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			349280537					4000				
PCB-107		AveID	66807 280088284	102545	576281	5897415	48169388	0.500 2000	1.00	5.00	50.0	400
PCB-131		AveID	++++ 145204904	60287	289665	3018928	25806641	++++ 2000	1.00	5.00	50.0	400
PCB-123		AveID	56282 259083255	103937	444649	5033992	43726655	0.500 2000	1.00	5.00	50.0	400
PCB-106		AveID	57304 259205947	96794	501472	5140106	43503164	0.500 2000	1.00	5.00	50.0	400
PCB-142		AveID	31461 147452709	58658	301166	3115155	25727292	0.500 2000	1.00	5.00	50.0	400
PCB-118		AveID	65547 282900049	118026	579609	6016008	49487841	0.500 2000	1.00	5.00	50.0	400
PCB-132		AveID	36598 134732483	59523	300578	2979191	24603976	0.500 2000	1.00	5.00	50.0	400
PCB-122		AveID	49485 217083178	94688	416752	4709445	38072113	0.500 2000	1.00	5.00	50.0	400
PCB-114		AveID	55723 259907186	107408	496695	5307527	44610183	0.500 2000	1.00	5.00	50.0	400
PCB-188		AveID	39693 172058230	77076	379875	3706640	30886057	0.500 2000	1.00	5.00	50.0	400
PCB-133		AveID	32377 147730024	71556	328133	3245992	28247093	0.500 2000	1.00	5.00	50.0	400
PCB-179		AveID	46777 169294763	77102	381743	3733944	31130650	0.500 2000	1.00	5.00	50.0	400
PCB-165		AveID	42251 191105968	89004	408419	4186901	34588489	0.500 2000	1.00	5.00	50.0	400
PCB-105		AveID	65478 263476320	107441	513401	5526391	45872125	0.500 2000	1.00	5.00	50.0	400
PCB-146		AveID	42036 183787905	80078	378659	3845405	32748351	0.500 2000	1.00	5.00	50.0	400
PCB-184		AveID	38134 173580025	74149	370448	3714498	31018294	0.500 2000	1.00	5.00	50.0	400
PCB-161		AveID	46946 217946430	95121	438810	4666072	38113824	0.500 2000	1.00	5.00	50.0	400
PCB-176		AveID	40584 147820845	62562	331851	3337458	27007633	0.500 2000	1.00	5.00	50.0	400
PCB-153		AveID	93081 433749157	166883	893507	8944568	74572114	1.00 4000	2.00	10.0	100	800
PCB-153/168		AveID	93081 433749157	166883	893507	8944568	74572114	1.00 4000	2.00	10.0	100	800

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-168		AveID	93081 433749157	166883	893507	8944568	74572114	1.00 4000	2.00	10.0	100	800
PCB-141		AveID	41664 155876662	74724	338462	3461353	29064533	0.500 2000	1.00	5.00	50.0	400
PCB-186		AveID	44732 183358035	75669	394382	4051516	33163682	0.500 2000	1.00	5.00	50.0	400
PCB-130		AveID	32146 126435560	59703	279233	2838645	23530162	0.500 2000	1.00	5.00	50.0	400
PCB-127		AveID	57517 264011122	108872	505934	5642766	46076121	0.500 2000	1.00	5.00	50.0	400
PCB-137		AveID	33182 145652162	61626	318450	3298456	25797296	0.500 2000	1.00	5.00	50.0	400
PCB-164		AveID	46464 196637037	83907	400805	4200180	35754648	0.500 2000	1.00	5.00	50.0	400
PCB-129		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-129/138/160/163		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-138		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-160		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-163		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-158		AveID	60291 240225815	109591	509962	5319521	43420955	0.500 2000	1.00	5.00	50.0	400
PCB-178		AveID	25284 108531079	49156	246629	2440485	20314842	0.500 2000	1.00	5.00	50.0	400
PCB-175		AveID	30945 114534847	50193	246187	2569891	21220414	0.500 2000	1.00	5.00	50.0	400
PCB-126		AveID	49570 256982981	95794	483239	5411840	44661015	0.500 2000	1.00	5.00	50.0	400
PCB-128		AveID	83902 400795430	151578	747908	8124665	68077278	1.00 4000	2.00	10.0	100	800
PCB-128/166		AveID	83902 400795430	151578	747908	8124665	68077278	1.00 4000	2.00	10.0	100	800
PCB-166		AveID	83902 400795430	151578	747908	8124665	68077278	1.00 4000	2.00	10.0	100	800
PCB-187		AveID	31052 135710155	60936	296377	3023234	24989319	0.500 2000	1.00	5.00	50.0	400
PCB-182		AveID	24644	48192	263009	2647036	21292850	0.500	1.00	5.00	50.0	400

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			113333574					2000				
PCB-183		AveID	64294 226842465	115938	505531	5114533	41853835	1.00 4000	2.00	10.0	100	800
PCB-183/185		AveID	64294 226842465	115938	505531	5114533	41853835	1.00 4000	2.00	10.0	100	800
PCB-185		AveID	64294 226842465	115938	505531	5114533	41853835	1.00 4000	2.00	10.0	100	800
PCB-174		AveID	30210 120778067	46390	258926	2681848	21783169	0.500 2000	1.00	5.00	50.0	400
PCB-159		AveID	58381 268867618	114847	558064	5578541	46357455	0.500 2000	1.00	5.00	50.0	400
PCB-162		AveID	55301 227875192	106735	513669	5046359	41684795	0.500 2000	1.00	5.00	50.0	400
PCB-177		AveID	29904 115865581	53407	265089	2633576	21710754	0.500 2000	1.00	5.00	50.0	400
PCB-202		AveID	25714 114836205	51069	264468	2654251	21547219	0.500 2000	1.00	5.00	50.0	400
PCB-167		AveID	51226 213807712	90866	464967	4608166	37916934	0.500 2000	1.00	5.00	50.0	400
PCB-181		AveID	28637 115218365	55606	243089	2521026	21004998	0.500 2000	1.00	5.00	50.0	400
PCB-171		AveID	60459 222795208	111708	465633	4804669	39921079	1.00 4000	2.00	10.0	100	800
PCB-171/173		AveID	60459 222795208	111708	465633	4804669	39921079	1.00 4000	2.00	10.0	100	800
PCB-173		AveID	60459 222795208	111708	465633	4804669	39921079	1.00 4000	2.00	10.0	100	800
PCB-201		AveID	26064 104750814	50692	242194	2419114	19791616	0.500 2000	1.00	5.00	50.0	400
PCB-156		AveID	88451 422223885	183365	886471	8938406	73585151	1.00 4000	2.00	10.0	100	800
PCB-156/157		AveID	88451 422223885	183365	886471	8938406	73585151	1.00 4000	2.00	10.0	100	800
PCB-157		AveID	88451 422223885	183365	886471	8938406	73585151	1.00 4000	2.00	10.0	100	800
PCB-204		AveID	29939 111110035	53523	259683	2562540	20940493	0.500 2000	1.00	5.00	50.0	400
PCB-197		AveID	34548 119677701	59307	278144	2790933	22095397	0.500 2000	1.00	5.00	50.0	400
PCB-200		AveID	25941 107343183	53055	264690	2461217	20163621	0.500 2000	1.00	5.00	50.0	400

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-172		AveID	26430 98480427	47193	225866	2347963	18849904	0.500 2000	1.00	5.00	50.0	400
PCB-192		AveID	37024 164428936	75123	366181	3758142	30290999	0.500 2000	1.00	5.00	50.0	400
PCB-180		AveID	66935 287312478	130449	626627	6380540	51963197	1.00 4000	2.00	10.0	100	800
PCB-180/193		AveID	66935 287312478	130449	626627	6380540	51963197	1.00 4000	2.00	10.0	100	800
PCB-193		AveID	66935 287312478	130449	626627	6380540	51963197	1.00 4000	2.00	10.0	100	800
PCB-191		AveID	35223 156918655	72972	348406	3590548	29149341	0.500 2000	1.00	5.00	50.0	400
PCB-170		AveID	29022 104308327	51767	255223	2504084	19833085	0.500 2000	1.00	5.00	50.0	400
PCB-190		AveID	40117 158352425	74583	364710	3582145	29063711	0.500 2000	1.00	5.00	50.0	400
PCB-169		AveID	54907 220826313	91425	452938	4858941	39746833	0.500 2000	1.00	5.00	50.0	400
PCB-198		AveID	49584 190066454	88133	430393	4197692	34466252	1.00 4000	2.00	10.0	100	800
PCB-198/199		AveID	49584 190066454	88133	430393	4197692	34466252	1.00 4000	2.00	10.0	100	800
PCB-199		AveID	49584 190066454	88133	430393	4197692	34466252	1.00 4000	2.00	10.0	100	800
PCB-196		AveID	21772 81076975	41271	198979	1892682	15393419	0.500 2000	1.00	5.00	50.0	400
PCB-203		AveID	26586 98693847	45126	235807	2289580	18781869	0.500 2000	1.00	5.00	50.0	400
PCB-208		AveID	41595 166655336	79659	399575	3774592	31300386	0.500 2000	1.00	5.00	50.0	400
PCB-195		AveID	34279 154147844	74468	348250	3431947	28114967	0.500 2000	1.00	5.00	50.0	400
PCB-189		AveID	53094 221399680	97896	493179	4928731	40021622	0.500 2000	1.00	5.00	50.0	400
PCB-207		AveID	49926 170983014	79832	399296	3878521	31656277	0.500 2000	1.00	5.00	50.0	400
PCB-194		AveID	47820 173567729	84593	394237	3967420	32373452	0.500 2000	1.00	5.00	50.0	400
PCB-205		AveID	50563 198631608	94183	448246	4478090	36524269	0.500 2000	1.00	5.00	50.0	400
PCB-206		AveID	43449	67457	317426	3124562	25218974	0.500	1.00	5.00	50.0	400

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			132627452					2000				
PCB-209		AveID	28972 109226464	51840	273346	2603740	20909699	0.500 2000	1.00	5.00	50.0	400
PCB-1L	PCB9L	Ave	14676977 14103562	13411930	13253788	13654287	13820437	100 100	100	100	100	100
PCB-3L	PCB9L	Ave	14134368 14397062	13166477	13154993	13165806	13803706	100 100	100	100	100	100
PCB-4L	PCB9L	Ave	5904521 5672202	5442766	5279032	5474214	5561618	100 100	100	100	100	100
PCB-19L	PCB32 L	Ave	3711790 3634856	3424036	3389482	3406868	3537933	100 100	100	100	100	100
PCB-15L	PCB9L	Ave	9483770 10031243	8819361	8806182	8855244	9575202	100 100	100	100	100	100
PCB-54L	PCB32 L	Ave	3394991 3193810	3010951	2803421	3125781	3162909	100 100	100	100	100	100
PCB-104L	PCB10 1L	Ave	6938320 6975966	6240748	6307301	6455349	6672003	100 100	100	100	100	100
PCB-37L	PCB31 L	Ave	14507892 15552321	13255798	13114910	13535671	14730805	100 100	100	100	100	100
PCB-155L	PCB10 1L	Ave	6307321 6037909	5566942	5708638	5786925	5892178	100 100	100	100	100	100
PCB-81L	PCB52 L	Ave	10352263 11264701	9378026	9411321	9689577	10335461	100 100	100	100	100	100
PCB-77L	PCB52 L	Ave	11078136 11187391	9952597	10036639	10298891	11450569	100 100	100	100	100	100
PCB-123L	PCB12 7L	Ave	10371480 11406816	9073751	9321962	9501201	10377703	100 100	100	100	100	100
PCB-118L	PCB12 7L	Ave	10759990 11370905	9353232	9948185	10094764	10740248	100 100	100	100	100	100
PCB-114L	PCB12 7L	Ave	10504311 11474644	9705413	9387618	9734953	10559524	100 100	100	100	100	100
PCB-188L	PCB18 0L	Ave	7116082	6585200	6664037	6587579	7006215	100	100	100	100	100

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			7440630					100				
PCB-105L	PCB12 7L	Ave	10177357	9101468	9087875	9433900	10096861	100	100	100	100	100
			10771838					100				
PCB-126L	PCB12 7L	Ave	9958778	8756063	8945635	9388684	10103302	100	100	100	100	100
			11098540					100				
PCB-202L	PCB18 0L	Ave	5622444	5103331	5089577	4754288	5079458	100	100	100	100	100
			5299657					100				
PCB-167L	PCB13 8L	Ave	9105316	8343026	8150383	8329121	8748546	100	100	100	100	100
			9296213					100				
PCB-156L	PCB13 8L	Ave	17145311	16075823	15994835	16048883	16797326	200	200	200	200	200
			18003846					200				
PCB-156L/157L	PCB13 8L	Ave	17145311	16075823	15994835	16048883	16797326	200	200	200	200	200
			18003846					200				
PCB-157L	PCB13 8L	Ave	17145311	16075823	15994835	16048883	16797326	200	200	200	200	200
			18003846					200				
PCB-170L	PCB18 0L	Ave	4764508	4277780	4357834	4156589	4386822	100	100	100	100	100
			4404173					100				
PCB-169L	PCB13 8L	Ave	9181390	8243482	7844285	8145884	8761705	100	100	100	100	100
			9278382					100				
PCB-208L	PCB19 4L	Ave	7500908	6757986	6859651	6680775	7135804	100	100	100	100	100
			7275684					100				
PCB-189L	PCB19 4L	Ave	11329298	10353644	10235768	10070777	10502203	100	100	100	100	100
			11047526					100				
PCB-205L	PCB19 4L	Ave	9259085	8466946	8416261	8337493	8638618	100	100	100	100	100
			8823289					100				
PCB-206L	PCB19 4L	Ave	5499727	4908757	5024711	4903942	5087280	100	100	100	100	100
			5196483					100				
PCB-209L	PCB19 4L	Ave	5278978	4729024	4889751	4723291	4867564	100	100	100	100	100
			4902169					100				

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-8L		AveID			467355	4194596	33958319			5.00	50.0	400
PCB-28L	PCB31 L	Ave			930321	7682166	63120528			5.00	50.0	400
PCB-95L		AveID			234474	2314965	18806941			5.00	50.0	400
PCB-79L		AveID			504032	4986068	42309500			5.00	50.0	400
PCB-111L	PCB10 1L	Ave			394315	3399701	27823366			5.00	50.0	400
PCB-153L		AveID			444756	3417541	27374804			5.00	50.0	400
PCB-178L	PCB18 0L	Ave			290779	2454141	20165082			5.00	50.0	400
PCB-159L		AveID	7935499 8428474	7665555	7301154	7786628	8051959	100 100	100	100	100	100

Curve Type Legend:

Ave = Average ISTD

AveID = Average isotope dilution

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87130/1	d2240531pi1a.d
Level 2	IC 140-87130/2	d2240531pi2a.d
Level 3	IC 140-87130/3	d2240531pi3.d
Level 4	IC 140-87130/4	d2240531pi4.d
Level 5	IC 140-87130/5	d2240531pi5.d
Level 6	IC 140-87130/6	d2240531pi6.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-1	-2.1	2.5	-1.5	-0.8	1.7	+++++	50	30	30	30	30	
PCB-2	-3.0	-3.0	-1.4	-0.4	2.9	4.9	50	30	30	30	30	30
PCB-3	1.2	-3.3	-0.4	0.1	-0.2	2.5	50	30	30	30	30	30
PCB-4	-3.9	2.2	-0.3	-0.8	-2.2	5.0	50	30	30	30	30	30
PCB-10	-4.1	-3.0	1.9	1.7	-2.9	6.4	50	30	30	30	30	30
PCB-9	-5.9	0.3	2.6	-0.2	-2.0	5.2	50	30	30	30	30	30
PCB-7	7.0	-10.0	-4.2	-2.2	-3.8	4.2	50	30	30	30	30	30
PCB-6	5.9	-11.2	-4.6	-2.1	-3.7	5.6	50	30	30	30	30	30
PCB-5	0.0	-2.6	-3.0	1.0	-1.3	5.9	50	30	30	30	30	30
PCB-8	1.4	-4.2	-1.2	-1.2	-2.2	7.5	50	30	30	30	30	30
PCB-19	14.6	-13.5	-0.5	-1.4	-0.6	1.4	50	30	30	30	30	30
PCB-14	2.1	-4.3	-0.2	0.8	-3.4	4.9	50	30	30	30	30	30
PCB-18	-3.8	-1.0	-1.6	0.7	-0.6	6.3	50	30	30	30	30	30
PCB-18/30	-3.8	-1.0	-1.6	0.7	-0.6	6.3	50	30	30	30	30	30
PCB-30	-3.8	-1.0	-1.6	0.7	-0.6	6.3	50	30	30	30	30	30
PCB-11	7.4	-18.0	-0.7	-0.9	-2.7	6.3	50	30	30	30	30	30
PCB-17	0.4	1.2	-2.1	0.2	-1.4	1.8	50	30	30	30	30	30
PCB-12	-5.5	-4.7	0.3	-0.9	-0.9	11.6	50	30	30	30	30	30
PCB-12/13	-5.5	-4.7	0.3	-0.9	-0.9	11.6	50	30	30	30	30	30
PCB-13	-5.5	-4.7	0.3	-0.9	-0.9	11.6	50	30	30	30	30	30
PCB-27	-19.4	-1.6	0.0	1.8	1.6	8.9	50	30	30	30	30	30
PCB-24	-8.9	-3.3	-2.8	-1.5	0.8	7.5	50	30	30	30	30	30
PCB-16	-0.1	-16.0	-1.1	1.9	0.4	4.6	50	30	30	30	30	30
PCB-15	4.4	0.1	-2.8	-1.6	-4.3	4.2	50	30	30	30	30	30
PCB-54	-17.2	4.1	5.2	3.4	0.9	3.6	50	30	30	30	30	30
PCB-32	0.6	-4.0	-0.2	-1.4	-0.2	5.2	50	30	30	30	30	30
PCB-34	0.0	-2.5	0.3	-0.2	-4.1	6.4	50	30	30	30	30	30
PCB-23	-7.6	3.4	0.1	-1.8	-6.8	4.8	50	30	30	30	30	30
PCB-26	-3.4	-0.6	-3.4	-3.5	-1.8	12.6	50	30	30	30	30	30
PCB-26/29	-3.4	-0.6	-3.4	-3.5	-1.8	12.6	50	30	30	30	30	30
PCB-29	-3.4	-0.6	-3.4	-3.5	-1.8	12.6	50	30	30	30	30	30
PCB-25	5.9	-4.7	-4.4	-2.0	-5.1	10.2	50	30	30	30	30	30
PCB-50	4.7	-3.2	-4.3	-1.9	-5.4	10.2	50	30	30	30	30	30

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-50/53	4.7	-3.2	-4.3	-1.9	-5.4	10.2	50	30	30	30	30	30
PCB-53	4.7	-3.2	-4.3	-1.9	-5.4	10.2	50	30	30	30	30	30
PCB-31	1.4	5.2	-1.5	-4.4	-6.2	5.5	50	30	30	30	30	30
PCB-20	-3.9	-4.0	-3.4	-2.2	-2.0	15.6	50	30	30	30	30	30
PCB-20/28	-3.9	-4.0	-3.4	-2.2	-2.0	15.6	50	30	30	30	30	30
PCB-28	-3.9	-4.0	-3.4	-2.2	-2.0	15.6	50	30	30	30	30	30
PCB-45	-1.8	-1.3	-1.9	0.2	-3.5	8.2	50	30	30	30	30	30
PCB-45/51	-1.8	-1.3	-1.9	0.2	-3.5	8.2	50	30	30	30	30	30
PCB-51	-1.8	-1.3	-1.9	0.2	-3.5	8.2	50	30	30	30	30	30
PCB-21	-5.3	-1.0	-0.4	-1.6	-3.8	12.1	50	30	30	30	30	30
PCB-21/33	-5.3	-1.0	-0.4	-1.6	-3.8	12.1	50	30	30	30	30	30
PCB-33	-5.3	-1.0	-0.4	-1.6	-3.8	12.1	50	30	30	30	30	30
PCB-46	14.6	-4.1	-1.3	-1.5	-6.8	-0.9	50	30	30	30	30	30
PCB-22	1.0	3.9	-5.5	-2.5	-4.4	7.4	50	30	30	30	30	30
PCB-52	-8.0	-1.3	-1.6	2.8	-4.3	3.7	50	30	30	30	30	30
PCB-43	4.1	0.2	-3.0	-0.6	-6.3	5.5	50	30	30	30	30	30
PCB-43/73	4.1	0.2	-3.0	-0.6	-6.3	5.5	50	30	30	30	30	30
PCB-73	4.1	0.2	-3.0	-0.6	-6.3	5.5	50	30	30	30	30	30
PCB-36	-4.3	2.7	0.8	1.9	-6.0	5.0	50	30	30	30	30	30
PCB-49	6.1	-2.3	-3.5	-1.8	-6.7	8.1	50	30	30	30	30	30
PCB-49/69	6.1	-2.3	-3.5	-1.8	-6.7	8.1	50	30	30	30	30	30
PCB-69	6.1	-2.3	-3.5	-1.8	-6.7	8.1	50	30	30	30	30	30
PCB-39	-3.4	-1.8	0.1	-1.1	-3.4	9.5	50	30	30	30	30	30
PCB-48	3.9	3.4	-1.6	-2.4	-6.3	3.1	50	30	30	30	30	30
PCB-104	-0.7	-2.3	-3.8	0.9	0.3	5.6	50	30	30	30	30	30
PCB-44	-2.2	-1.5	-5.3	-3.9	-5.1	18.0	50	30	30	30	30	30
PCB-44/47/65	-2.2	-1.5	-5.3	-3.9	-5.1	18.0	50	30	30	30	30	30
PCB-47	-2.2	-1.5	-5.3	-3.9	-5.1	18.0	50	30	30	30	30	30
PCB-65	-2.2	-1.5	-5.3	-3.9	-5.1	18.0	50	30	30	30	30	30
PCB-38	-3.2	-0.8	-4.3	-2.5	-3.0	13.8	50	30	30	30	30	30
PCB-96	1.4	-7.2	-1.8	-0.7	-0.2	8.6	50	30	30	30	30	30
PCB-59	1.4	-3.6	-7.6	-5.0	-4.6	19.4	50	30	30	30	30	30
PCB-59/62/75	1.4	-3.6	-7.6	-5.0	-4.6	19.4	50	30	30	30	30	30
PCB-62	1.4	-3.6	-7.6	-5.0	-4.6	19.4	50	30	30	30	30	30
PCB-75	1.4	-3.6	-7.6	-5.0	-4.6	19.4	50	30	30	30	30	30
PCB-42	0.2	1.5	1.3	0.4	-6.1	2.8	50	30	30	30	30	30
PCB-35	5.0	-4.7	-2.7	-1.1	-2.3	5.7	50	30	30	30	30	30
PCB-40	7.4	-1.7	-3.8	-3.8	-5.5	7.4	50	30	30	30	30	30
PCB-40/41/71	7.4	-1.7	-3.8	-3.8	-5.5	7.4	50	30	30	30	30	30
PCB-41	7.4	-1.7	-3.8	-3.8	-5.5	7.4	50	30	30	30	30	30
PCB-71	7.4	-1.7	-3.8	-3.8	-5.5	7.4	50	30	30	30	30	30
PCB-37	8.8	-2.0	-3.5	-1.9	-6.1	4.7	50	30	30	30	30	30
PCB-64	-9.3	6.6	-4.0	-4.2	-8.3	1.5	50	30	30	30	30	30

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-72	1.2	-2.8	-0.6	0.8	-4.4	5.8	50	30	30	30	30	30
PCB-103	-0.1	0.1	-1.1	-0.4	-1.3	2.7	50	30	30	30	30	30
PCB-68	-6.5	-0.4	1.6	1.3	-3.5	7.6	50	30	30	30	30	30
PCB-94	-12.9	6.3	1.0	-4.5	-5.4	-2.1	50	30	30	30	30	30
PCB-57	-5.2	3.1	-2.0	0.7	-3.5	6.9	50	30	30	30	30	30
PCB-95	-12.1	-12.7	-2.4	0.8	1.4	3.3	50	30	30	30	30	30
PCB-58	-14.4	-8.1	-0.8	2.8	-2.3	11.9	50	30	30	30	30	30
PCB-100	1.2	-1.1	-4.4	-2.1	-2.3	8.7	50	30	30	30	30	30
PCB-93	1.2	-1.1	-4.4	-2.1	-2.3	8.7	50	30	30	30	30	30
PCB-93/100	1.2	-1.1	-4.4	-2.1	-2.3	8.7	50	30	30	30	30	30
PCB-67	4.5	-1.1	-4.2	-3.3	-5.1	9.3	50	30	30	30	30	30
PCB-102	-0.1	-11.0	1.0	-0.7	-1.8	2.8	50	30	30	30	30	30
PCB-98	-0.1	-11.0	1.0	-0.7	-1.8	2.8	50	30	30	30	30	30
PCB-98/102	-0.1	-11.0	1.0	-0.7	-1.8	2.8	50	30	30	30	30	30
PCB-63	0.8	4.6	-0.3	-2.1	-6.8	3.7	50	30	30	30	30	30
PCB-88	4.4	-6.9	-1.6	-1.9	-0.8	6.8	50	30	30	30	30	30
PCB-88/91	4.4	-6.9	-1.6	-1.9	-0.8	6.8	50	30	30	30	30	30
PCB-91	4.4	-6.9	-1.6	-1.9	-0.8	6.8	50	30	30	30	30	30
PCB-61	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-61/70/74/76	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-70	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-74	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-76	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-84	-0.6	8.0	-1.9	-2.5	-2.8	-0.1	50	30	30	30	30	30
PCB-66	-1.8	-9.8	-1.8	0.4	-3.4	8.6	50	30	30	30	30	30
PCB-55	9.5	-6.6	-2.1	-2.0	-6.0	7.1	50	30	30	30	30	30
PCB-89	2.0	-12.7	-0.2	-3.7	-4.0	-2.2	50	30	30	30	30	30
PCB-56	13.0	-5.5	-3.8	-2.0	-6.5	4.8	50	30	30	30	30	30
PCB-121	-10.9	1.6	-0.5	-1.0	-1.5	4.8	50	30	30	30	30	30
PCB-60	0.5	10.9	-6.5	-2.4	-6.5	4.0	50	30	30	30	30	30
PCB-92	1.0	6.0	-3.2	-1.2	-2.4	-0.2	50	30	30	30	30	30
PCB-80	4.7	0.1	-3.9	-2.5	-5.2	6.9	50	30	30	30	30	30
PCB-155	-5.9	2.2	0.1	0.9	0.0	2.6	50	30	30	30	30	30
PCB-152	-0.5	-9.6	-0.7	-3.9	-2.1	6.5	50	30	30	30	30	30
PCB-101	-0.7	-11.4	-5.5	-1.3	-1.9	11.5	50	30	30	30	30	30
PCB-113	-0.7	-11.4	-5.5	-1.3	-1.9	11.5	50	30	30	30	30	30
PCB-90	-0.7	-11.4	-5.5	-1.3	-1.9	11.5	50	30	30	30	30	30
PCB-90/101/113	-0.7	-11.4	-5.5	-1.3	-1.9	11.5	50	30	30	30	30	30
PCB-150	-5.0	-0.5	1.3	0.0	0.0	4.1	50	30	30	30	30	30
PCB-136	4.7	-1.1	-6.2	-2.3	-0.4	5.4	50	30	30	30	30	30
PCB-83	-0.6	-12.8	0.0	2.1	-1.4	3.1	50	30	30	30	30	30
PCB-83/99	-0.6	-12.8	0.0	2.1	-1.4	3.1	50	30	30	30	30	30
PCB-99	-0.6	-12.8	0.0	2.1	-1.4	3.1	50	30	30	30	30	30

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-112	2.4	-2.7	-1.7	-4.3	-3.8	1.9	50	30	30	30	30	30
PCB-145	2.9	-5.0	-0.5	-1.0	-0.7	4.3	50	30	30	30	30	30
PCB-109	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-119	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-125	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-86	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-86/87/97/109/119/125	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-87	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-97	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-79	0.5	6.3	-6.1	-4.4	-6.1	9.8	50	30	30	30	30	30
PCB-78	13.8	3.0	-2.3	-5.2	-8.9	-0.4	50	30	30	30	30	30
PCB-116	1.6	-1.0	-4.7	-1.8	-2.2	8.2	50	30	30	30	30	30
PCB-117	1.6	-1.0	-4.7	-1.8	-2.2	8.2	50	30	30	30	30	30
PCB-85	1.6	-1.0	-4.7	-1.8	-2.2	8.2	50	30	30	30	30	30
PCB-85/116/117	1.6	-1.0	-4.7	-1.8	-2.2	8.2	50	30	30	30	30	30
PCB-110	0.8	3.0	-2.3	-3.0	-3.2	4.7	50	30	30	30	30	30
PCB-110/115	0.8	3.0	-2.3	-3.0	-3.2	4.7	50	30	30	30	30	30
PCB-115	0.8	3.0	-2.3	-3.0	-3.2	4.7	50	30	30	30	30	30
PCB-81	3.7	1.5	-1.7	-0.4	-4.3	1.3	50	30	30	30	30	30
PCB-82	0.5	2.0	-1.6	-0.8	-2.0	1.9	50	30	30	30	30	30
PCB-148	0.6	-4.6	-0.9	-1.1	0.2	5.8	50	30	30	30	30	30
PCB-77	7.9	2.9	-4.3	-2.4	-8.8	4.8	50	30	30	30	30	30
PCB-111	-4.4	10.3	-4.0	-2.3	-1.6	2.1	50	30	30	30	30	30
PCB-135	0.4	-3.1	-2.7	-0.2	-0.2	5.7	50	30	30	30	30	30
PCB-135/151	0.4	-3.1	-2.7	-0.2	-0.2	5.7	50	30	30	30	30	30
PCB-151	0.4	-3.1	-2.7	-0.2	-0.2	5.7	50	30	30	30	30	30
PCB-120	3.6	-0.5	-4.1	-1.4	-3.0	5.4	50	30	30	30	30	30
PCB-154	-8.8	-6.9	-1.6	0.8	0.6	5.6	50	30	30	30	30	30
PCB-144	5.1	-11.4	-2.9	-1.7	-2.0	1.6	50	30	30	30	30	30
PCB-147	7.9	-5.6	-5.7	-2.9	-2.9	9.1	50	30	30	30	30	30
PCB-147/149	7.9	-5.6	-5.7	-2.9	-2.9	9.1	50	30	30	30	30	30
PCB-149	7.9	-5.6	-5.7	-2.9	-2.9	9.1	50	30	30	30	30	30
PCB-134	3.7	0.6	0.5	-0.6	-4.2	-0.1	50	30	30	30	30	30
PCB-134/143	3.7	0.6	0.5	-0.6	-4.2	-0.1	50	30	30	30	30	30
PCB-143	3.7	0.6	0.5	-0.6	-4.2	-0.1	50	30	30	30	30	30
PCB-108	-3.1	-0.6	-2.9	-2.5	-3.5	12.7	50	30	30	30	30	30
PCB-108/124	-3.1	-0.6	-2.9	-2.5	-3.5	12.7	50	30	30	30	30	30
PCB-124	-3.1	-0.6	-2.9	-2.5	-3.5	12.7	50	30	30	30	30	30
PCB-139	-0.8	-1.0	-4.0	-1.3	-1.9	8.9	50	30	30	30	30	30
PCB-139/140	-0.8	-1.0	-4.0	-1.3	-1.9	8.9	50	30	30	30	30	30
PCB-140	-0.8	-1.0	-4.0	-1.3	-1.9	8.9	50	30	30	30	30	30
PCB-107	6.5	-16.3	1.8	1.0	-4.2	2.9	50	30	30	30	30	30
PCB-131	+++++	-1.6	-3.5	-1.0	0.3	5.8		50	30	30	30	30

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville

Job No.: 140-36689-1

Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D

GC Column: SPB-Octyl ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36

Calibration End Date: 05/31/2024 21:13

Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-123	1.2	6.8	-11.0	-1.2	-1.8	5.9	50	30	30	30	30	30
PCB-106	2.1	-2.9	-0.9	-1.5	-3.3	6.5	50	30	30	30	30	30
PCB-142	-5.4	-4.3	0.3	2.1	-0.1	7.4	50	30	30	30	30	30
PCB-118	1.1	4.7	-3.3	-1.1	-4.4	3.2	50	30	30	30	30	30
PCB-132	10.3	-2.7	0.4	-2.2	-4.2	-1.6	50	30	30	30	30	30
PCB-122	-0.1	7.6	-6.7	2.2	-4.1	1.1	50	30	30	30	30	30
PCB-114	-2.1	2.1	-2.4	0.6	-2.6	4.5	50	30	30	30	30	30
PCB-188	-1.7	3.1	0.5	-0.8	-2.9	1.9	50	30	30	30	30	30
PCB-133	-9.7	-1.2	1.4	-1.4	1.7	-0.2	50	30	30	30	30	30
PCB-179	10.3	-0.6	-3.0	-2.6	-4.3	0.1	50	30	30	30	30	30
PCB-165	-6.9	6.4	-0.3	0.5	-1.6	2.0	50	30	30	30	30	30
PCB-105	8.3	-0.6	-4.9	-1.4	-4.4	3.0	50	30	30	30	30	30
PCB-146	-1.5	-6.5	-1.7	-1.8	-0.9	4.3	50	30	30	30	30	30
PCB-184	-6.1	-0.1	-1.7	1.1	-0.4	7.2	50	30	30	30	30	30
PCB-161	-6.1	3.2	-2.8	1.7	-1.6	5.6	50	30	30	30	30	30
PCB-176	10.8	-6.6	-2.3	0.8	-3.9	1.2	50	30	30	30	30	30
PCB-153	-3.9	-6.6	2.1	0.6	-0.6	8.4	50	30	30	30	30	30
PCB-153/168	-3.9	-6.6	2.1	0.6	-0.6	8.4	50	30	30	30	30	30
PCB-168	-3.9	-6.6	2.1	0.6	-0.6	8.4	50	30	30	30	30	30
PCB-141	-7.8	4.5	-3.3	-2.8	-3.2	-2.7	50	30	30	30	30	30
PCB-186	2.2	-5.5	-2.9	2.4	-1.2	5.0	50	30	30	30	30	30
PCB-130	2.9	3.7	-1.0	-1.0	-2.7	-2.0	50	30	30	30	30	30
PCB-127	-2.5	3.9	-4.9	2.8	-2.6	3.2	50	30	30	30	30	30
PCB-137	-3.5	-12.8	2.5	4.5	-3.2	2.5	50	30	30	30	30	30
PCB-164	-13.8	-13.5	-3.5	-0.5	0.4	3.6	50	30	30	30	30	30
PCB-129	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-129/138/160/163	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-138	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-160	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-163	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-158	3.8	2.4	-2.7	-0.2	-3.5	0.2	50	30	30	30	30	30
PCB-178	-4.8	1.2	0.0	1.6	-0.3	2.4	50	30	30	30	30	30
PCB-175	9.4	-12.1	-6.2	0.5	-2.2	1.5	50	30	30	30	30	30
PCB-126	-9.3	-0.3	-1.6	5.0	0.7	5.5	50	30	30	30	30	30
PCB-128	-3.6	-13.1	-4.9	1.7	0.9	11.5	50	30	30	30	30	30
PCB-128/166	-3.6	-13.1	-4.9	1.7	0.9	11.5	50	30	30	30	30	30
PCB-166	-3.6	-13.1	-4.9	1.7	0.9	11.5	50	30	30	30	30	30
PCB-187	-13.1	1.8	-2.4	2.2	-0.5	4.0	50	30	30	30	30	30
PCB-182	-10.3	-4.0	3.2	6.6	1.1	3.5	50	30	30	30	30	30
PCB-183	10.2	8.6	-6.6	-3.1	-6.5	-2.5	50	30	30	30	30	30
PCB-183/185	10.2	8.6	-6.6	-3.1	-6.5	-2.5	50	30	30	30	30	30
PCB-185	10.2	8.6	-6.6	-3.1	-6.5	-2.5	50	30	30	30	30	30
PCB-174	5.5	-18.6	-2.5	3.6	-0.8	5.8	50	30	30	30	30	30

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-36689-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-159	-4.9	1.5	0.7	-1.0	-2.5	6.1	50	30	30	30	30	30
PCB-162	-0.7	4.0	2.2	-1.3	-3.3	-0.9	50	30	30	30	30	30
PCB-177	-14.5	0.6	-1.6	0.3	-2.5	0.1	50	30	30	30	30	30
PCB-202	-11.7	-3.4	0.3	7.8	2.4	4.6	50	30	30	30	30	30
PCB-167	0.8	-2.4	2.2	-0.8	-2.9	3.1	50	30	30	30	30	30
PCB-181	-9.2	7.7	-7.2	-1.3	-3.0	2.3	50	30	30	30	30	30
PCB-171	9.0	1.6	-9.5	-4.2	-6.2	0.7	50	30	30	30	30	30
PCB-171/173	9.0	1.6	-9.5	-4.2	-6.2	0.7	50	30	30	30	30	30
PCB-173	9.0	1.6	-9.5	-4.2	-6.2	0.7	50	30	30	30	30	30
PCB-201	-4.9	-5.1	-2.4	4.3	-0.1	1.3	50	30	30	30	30	30
PCB-156	-7.1	2.7	-0.2	0.3	-1.4	5.6	50	30	30	30	30	30
PCB-156/157	-7.1	2.7	-0.2	0.3	-1.4	5.6	50	30	30	30	30	30
PCB-157	-7.1	2.7	-0.2	0.3	-1.4	5.6	50	30	30	30	30	30
PCB-204	1.6	-6.8	-2.7	2.8	-1.7	0.0	50	30	30	30	30	30
PCB-197	-0.8	-5.9	-4.6	2.5	-5.1	-1.5	50	30	30	30	30	30
PCB-200	-8.4	-16.3	3.3	2.8	-1.5	0.6	50	30	30	30	30	30
PCB-172	4.5	2.0	-3.8	2.6	-2.9	-2.4	50	30	30	30	30	30
PCB-192	-7.4	2.8	-1.3	4.0	-1.2	3.1	50	30	30	30	30	30
PCB-180	-3.5	2.8	-2.6	1.7	-2.3	3.9	50	30	30	30	30	30
PCB-180/193	-3.5	2.8	-2.6	1.7	-2.3	3.9	50	30	30	30	30	30
PCB-193	-3.5	2.8	-2.6	1.7	-2.3	3.9	50	30	30	30	30	30
PCB-191	-8.0	4.2	-1.9	3.7	-0.8	2.8	50	30	30	30	30	30
PCB-170	-8.9	2.0	-1.3	1.5	-4.7	-0.2	50	30	30	30	30	30
PCB-190	1.4	3.1	-0.6	0.1	-4.3	0.3	50	30	30	30	30	30
PCB-169	2.9	-4.6	-0.7	2.6	-2.5	2.3	50	30	30	30	30	30
PCB-198	1.4	-0.7	-2.8	1.5	-2.5	3.1	50	30	30	30	30	30
PCB-198/199	1.4	-0.7	-2.8	1.5	-2.5	3.1	50	30	30	30	30	30
PCB-199	1.4	-0.7	-2.8	1.5	-2.5	3.1	50	30	30	30	30	30
PCB-196	-0.8	3.6	0.2	2.0	-2.9	-2.0	50	30	30	30	30	30
PCB-203	1.8	-4.8	-0.3	3.7	-0.5	0.2	50	30	30	30	30	30
PCB-208	-2.5	3.6	2.4	-0.7	-3.6	0.7	50	30	30	30	30	30
PCB-195	-18.4	6.4	0.2	-0.4	-1.5	5.7	50	30	30	30	30	30
PCB-189	-2.7	-1.8	0.0	1.6	-1.1	4.0	50	30	30	30	30	30
PCB-207	11.7	-0.5	-2.3	-2.6	-5.9	-0.3	50	30	30	30	30	30
PCB-194	6.1	2.6	-3.8	-2.2	-3.8	1.0	50	30	30	30	30	30
PCB-205	0.4	2.3	-2.1	-1.2	-2.8	3.5	50	30	30	30	30	30
PCB-206	18.4	3.0	-5.3	-4.5	-7.1	-4.4	50	30	30	30	30	30
PCB-209	-0.3	-0.4	1.6	0.2	-2.4	1.2	50	30	30	30	30	30
PCB-8L			10.0	-3.0	-7.0				50	30	30	
PCB-95L			3.0	-0.6	-2.4				50	30	30	
PCB-79L			3.5	-0.4	-3.1				50	30	30	
PCB-153L			21.3	-8.3	-13.0				50	30	30	
PCB-159L	-4.5	1.1	-1.0	2.9	1.6	-0.1	50	30	30	30	30	30

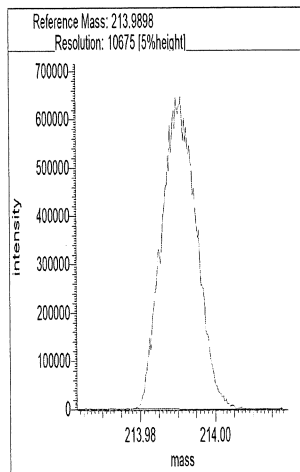
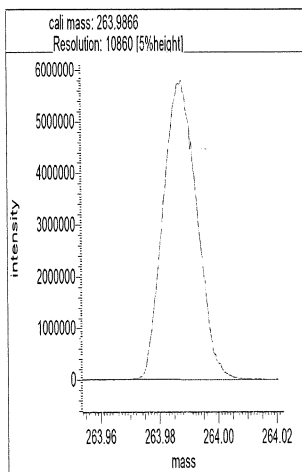
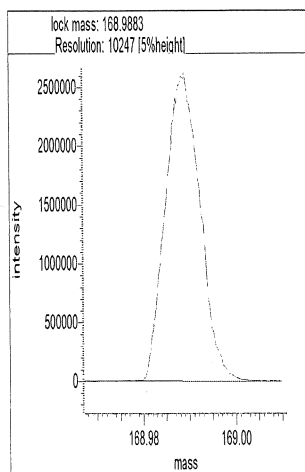
Resolution Check Report (DFS SN: 3190)

Date: 31 May 2024 12:51
MID Experiment: ResCheck_1668
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43KnxPCB.lua
Status: RESOLUTION PASSED

d2240531ir2

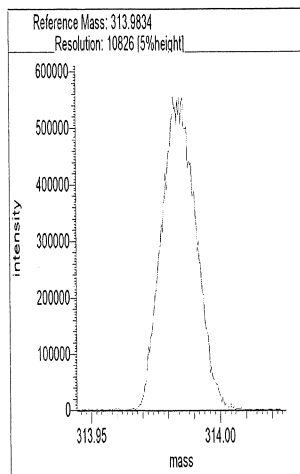
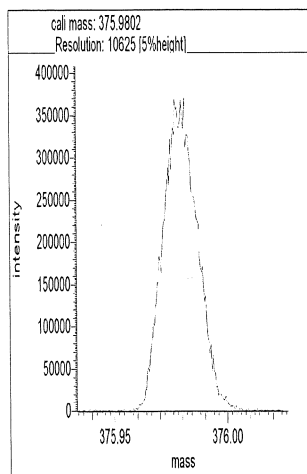
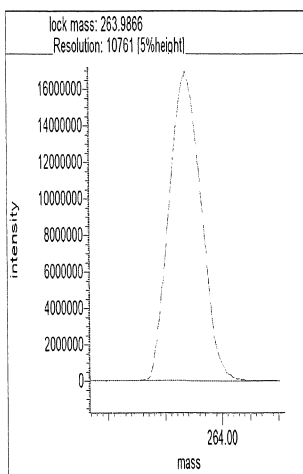
Segment 1

Lock mass 168.9883 [m/z] Resolution: 10247 [5%height]
Cali. mass 263.9866 [m/z] Resolution: 10860 [5%height]
Ref. mass 213.9898 [m/z] Resolution: 10675 [5%height]



Segment 2

Lock mass 263.9866 [m/z] Resolution: 10761 [5%height]
Cali. mass 375.9802 [m/z] Resolution: 10625 [5%height]
Ref. mass 313.9834 [m/z] Resolution: 10826 [5%height]

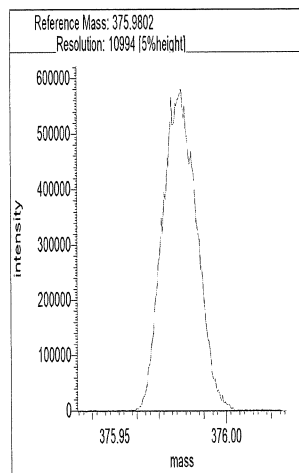
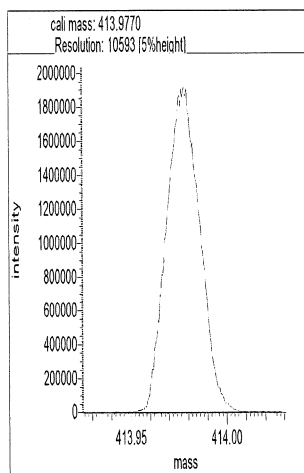
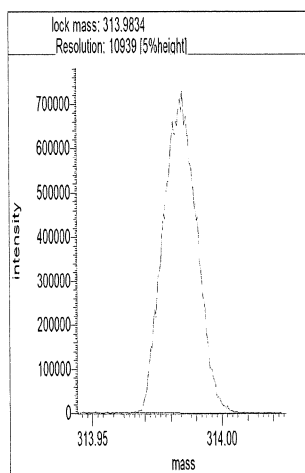


Segment 3

Lock mass 313.9834 [m/z] Resolution: 10939 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 10593 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 10994 [5%height]

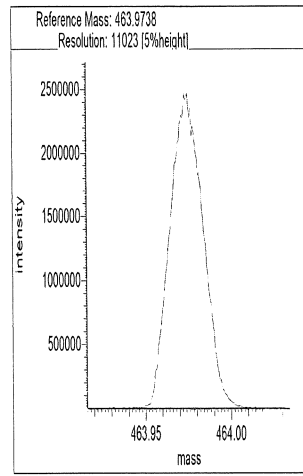
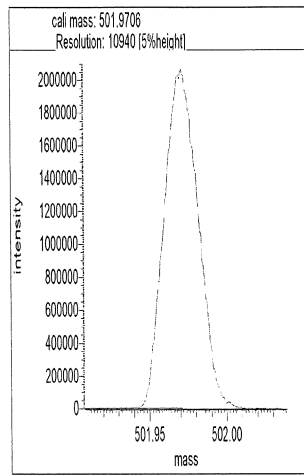
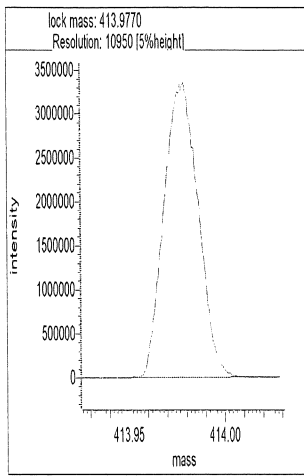


Segment 4

Lock mass 413.9770 [m/z] Resolution: 10950 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 10940 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 11023 [5%height]



Reports

13:00:30: Peak matching procedure started
13:00:31:
13:00:31: Reference mass: 168.98827
13:00:32: Sample mass: 214.0
13:00:32:
13:00:33: Finding reference mass
13:00:34: Finding sample mass
13:00:34:
13:00:40: [1] 213.9900 amu, mean: 213.9900
13:00:43: [2] 213.9900 amu, mean: 213.9900 SD: 0.01 mmu or: 0.03 ppm
13:00:47: [3] 213.9898 amu, mean: 213.9900 SD: 0.14 mmu or: 0.63 ppm
13:00:50: [4] 213.9899 amu, mean: 213.9899 SD: 0.12 mmu or: 0.57 ppm
13:00:50:
13:00:50: Stop requested. Please wait for procedure to finish.
13:00:50:
13:00:53:
13:00:53: Peakmatching stopped

Signature

BKK 5/31/24

Reports

13:01:15: Peak matching procedure started
13:01:16:
13:01:16: Reference mass: 213.98975
13:01:17: Sample mass: 264.0
13:01:17:
13:01:18: Finding reference mass
13:01:19: Finding sample mass
13:01:19:
13:01:25: [1] 263.9865 amu, mean: 263.9865
13:01:28: [2] 263.9863 amu, mean: 263.9864 SD: 0.16 mmu or: 0.60 ppm
13:01:31: [3] 263.9862 amu, mean: 263.9863 SD: 0.17 mmu or: 0.63 ppm
13:01:34: [4] 263.9871 amu, mean: 263.9865 SD: 0.39 mmu or: 1.46 ppm
13:01:35:
13:01:35: Stop requested. Please wait for procedure to finish.
13:01:35:
13:01:38:
13:01:38: Peakmatching stopped

Signature

BK 5/31/24

Reports

13:01:52: Peak matching procedure started
13:01:52:
13:01:53: Reference mass: 263.98656
13:01:53: Sample mass: 314.0
13:01:54:
13:01:54: Finding reference mass
13:01:55: Finding sample mass
13:01:56:
13:02:02: [1] 313.9842 amu, mean: 313.9842
13:02:05: [2] 313.9836 amu, mean: 313.9839 SD: 0.43 mmu or: 1.38 ppm
13:02:08: [3] 313.9844 amu, mean: 313.9841 SD: 0.42 mmu or: 1.35 ppm
13:02:11: [4] 313.9843 amu, mean: 313.9841 SD: 0.36 mmu or: 1.16 ppm
13:02:12:
13:02:12: Stop requested. Please wait for procedure to finish.
13:02:12:
13:02:14:
13:02:15: Peakmatching stopped

Signature

BKK 5/31/24

Reports

13:02:51: Peak matching procedure started
13:02:52:
13:02:52: Reference mass: 313.98336
13:02:53: Sample mass: 376.0
13:02:53:
13:02:54: Finding reference mass
13:02:55: Finding sample mass
13:02:56:
13:03:01: [1] 375.9809 amu, mean: 375.9809
13:03:04: [2] 375.9805 amu, mean: 375.9807 SD: 0.34 mmu or: 0.90 ppm
13:03:08: [3] 375.9810 amu, mean: 375.9808 SD: 0.30 mmu or: 0.81 ppm
13:03:11: [4] 375.9806 amu, mean: 375.9808 SD: 0.27 mmu or: 0.72 ppm
13:03:11:
13:03:11: Stop requested. Please wait for procedure to finish.
13:03:11:
13:03:14:
13:03:14: Peakmatching stopped

Signature

BKV 5/31/24

Reports

13:02:51: Peak matching procedure started
13:02:52:
13:02:52: Reference mass: 313.98336
13:02:53: Sample mass: 376.0
13:02:53:
13:02:54: Finding reference mass
13:02:55: Finding sample mass
13:02:56:
13:03:01: [1] 375.9809 amu, mean: 375.9809
13:03:04: [2] 375.9805 amu, mean: 375.9807 SD: 0.34 mmu or: 0.90 ppm
13:03:08: [3] 375.9810 amu, mean: 375.9808 SD: 0.30 mmu or: 0.81 ppm
13:03:11: [4] 375.9806 amu, mean: 375.9808 SD: 0.27 mmu or: 0.72 ppm
13:03:11:
13:03:11: Stop requested. Please wait for procedure to finish.
13:03:11:
13:03:14:
13:03:14: Peakmatching stopped

Signature

BLK 5/31/24

Reports

13:03:30: Peak matching procedure started
13:03:31:
13:03:31: Reference mass: 375.98017
13:03:32: Sample mass: 414.0
13:03:32:
13:03:33: Finding reference mass
13:03:34: Finding sample mass
13:03:34:
13:03:40: [1] 413.9781 amu, mean: 413.9781
13:03:43: [2] 413.9781 amu, mean: 413.9781 SD: 0.01 mmu or: 0.02 ppm
13:03:46: [3] 413.9783 amu, mean: 413.9782 SD: 0.16 mmu or: 0.38 ppm
13:03:50: [4] 413.9777 amu, mean: 413.9780 SD: 0.28 mmu or: 0.67 ppm
13:03:50:
13:03:50: Stop requested. Please wait for procedure to finish.
13:03:50:
13:03:53:
13:03:53: Peakmatching stopped


Signature

BKK 5/31/24

Reports

13:04:12: Peak matching procedure started
13:04:12:
13:04:13: Reference mass: 413.97698
13:04:13: Sample mass: 464.0
13:04:14:
13:04:14: Finding reference mass
13:04:15: Finding sample mass
13:04:16:
13:04:21: [1] 463.9745 amu, mean: 463.9745
13:04:25: [2] 463.9741 amu, mean: 463.9743 SD: 0.31 mmu or: 0.67 ppm
13:04:28: [3] 463.9747 amu, mean: 463.9744 SD: 0.33 mmu or: 0.71 ppm
13:04:31: [4] 463.9752 amu, mean: 463.9746 SD: 0.47 mmu or: 1.02 ppm
13:04:32:
13:04:32: Stop requested. Please wait for procedure to finish.
13:04:32:
13:04:34:
13:04:35: Peakmatching stopped

Signature _____

 5/31/24

Reports

13:04:47: Peak matching procedure started
13:04:48:
13:04:48: Reference mass: 463.97378
13:04:49: Sample mass: 502.0
13:04:49:
13:04:50: Finding reference mass
13:04:51: Finding sample mass
13:04:51:
13:04:57: [1] 501.9705 amu, mean: 501.9705
13:05:00: [2] 501.9716 amu, mean: 501.9710 SD: 0.80 mmu or: 1.60 ppm
13:05:04: [3] 501.9720 amu, mean: 501.9714 SD: 0.80 mmu or: 1.59 ppm
13:05:07: [4] 501.9704 amu, mean: 501.9711 SD: 0.80 mmu or: 1.59 ppm
13:05:07:
13:05:07: Stop requested. Please wait for procedure to finish.
13:05:07:
13:05:10:
13:05:10: Peakmatching stopped

Signature

BKK 5/31/24

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-May-2024 14:36:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-001
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:26:08 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 16:04:19

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					1.480	1.480	0.008877	0.008877		
D PCB-1L	11:38	14676977	3.18	1.6108	102.8	102.8	0.3184	0.3184	103	
D PCB-3L	13:47	14134368	3.26	1.5891	100.4	100.4	0.3228	0.3228	100	
PCB-1	11:39	87624	3.17	1.2191	0.4897	0.4897	0.007895	0.007895	97.94	
PCB-2	13:38	82442	3.08	1.1805	0.4848	0.4848	0.009006	0.009006	96.96	
PCB-3	13:48	87263	2.88	1.2206	0.5058	0.5058	0.009729	0.009729	101	
S Total Dichlorobiphenyls					6.017	6.017	0.0100	0.0100		
D PCB-4L	14:02	5904521	1.60	0.6475	102.9	102.9	0.1150	0.1150	103	
* PCB-9L	16:01	8859875	1.65		100.0	100.0				
D PCB-15L	19:55	9483770	1.65	1.0789	99.2	99.2	0.0690	0.0690	99.21	
PCB-4	14:04	36374	1.65	1.2818	0.4806	0.4806	0.0118	0.0118	96.12	
PCB-10	14:14	48502	1.60	1.3149	0.4794	0.4794	0.0104	0.0104	95.89	
PCB-9	16:02	51501	1.40	1.4224	0.4706	0.4706	0.009649	0.009649	94.11	
PCB-7	16:11	58157	1.66	1.4134	0.5348	0.5348	0.009711	0.009711	107	
PCB-6	16:26	62834	1.78	1.5421	0.5296	0.5296	0.008901	0.008901	106	
PCB-5	16:44	51519	1.59	1.3395	0.4999	0.4999	0.0102	0.0102	99.98	
PCB-8	16:52	61977	1.54	1.5889	0.5070	0.5070	0.008639	0.008639	101	
PCB-14	18:29	55107	1.60	1.4025	0.5107	0.5107	0.009787	0.009787	102	
PCB-11	19:20	53494	1.78	1.2951	0.5368	0.5368	0.0106	0.0106	107	
PCB-12	19:38	97175	1.76	1.3358	0.9455	0.9455	0.0103	0.0103	94.55	
PCB-13 (C12)	19:38	97175	1.76	1.3358	0.9455	0.9455	0.0103	0.0103	94.55	
PCB-15	19:57	63884	1.72	1.2903	0.5221	0.5221	0.009752	0.009752	104	
S Total Trichlorobiphenyls					11.9	11.8	0.0219	0.0219		RQ
D PCB-19L	17:09	3711790	1.05	0.6285	99.1	99.1	0.6332	0.6332	99.13	
* PCB-32L	20:24	5957210	1.09		100.0	100.0				
* PCB-31L	22:40	16769231	1.05		100.0	100.0				
D PCB-37L	26:57	14507892	1.05	0.8749	98.9	98.9	0.1278	0.1278	98.88	
PCB-19	17:10	27248	1.04	1.2809	0.5731	0.5731	0.007420	0.007420	115	
PCB-18	19:01	63024	1.20	1.7652	0.9619	0.9619	0.005384	0.005384	96.19	
PCB-30 (C18)	19:01	63024	1.20	1.7652	0.9619	0.9619	0.005384	0.005384	96.19	
PCB-17	19:27	23167	1.01	1.2430	0.5021	0.5021	0.007646	0.007646	100	
PCB-27	19:40	27414	1.04	1.8327	0.4459	0.4030	0.005186	0.005186	89.18	RQ
PCB-24	19:47	28349	1.04	1.6777	0.4961	0.4553	0.005665	0.005665	99.22	RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:54	20922	1.12	1.1286	0.4994	0.4994	0.008422	0.008422	99.89	
PCB-32	20:25	34215	0.98	1.8324	0.5030	0.5030	0.005187	0.005187	101	
PCB-34	21:41	81792	1.05	1.1277	0.4999	0.4999	0.0305	0.0305	99.98	
PCB-23	21:50	72448	1.04	1.0813	0.5015	0.4618	0.0318	0.0318	100	RQM
PCB-26	22:10	157772	1.05	1.1255	0.9663	0.9663	0.0305	0.0305	96.63	
PCB-29 (C26)	22:10	157772	1.05	1.1255	0.9663	0.9663	0.0305	0.0305	96.63	
PCB-25	22:23	97778	1.07	1.2728	0.5295	0.5295	0.0270	0.0270	106	
PCB-31	22:41	84854	0.99	1.1532	0.5072	0.5072	0.0298	0.0298	101	
PCB-20	23:00	163294	1.11	1.1718	0.9605	0.9605	0.0293	0.0293	96.05	
PCB-28 (C20)	23:00	163294	1.11	1.1718	0.9605	0.9605	0.0293	0.0293	96.05	
PCB-21	23:13	147710	1.00	1.0746	0.9475	0.9475	0.0320	0.0320	94.75	M
PCB-33 (C21)	23:13	147710	1.00	1.0746	0.9475	0.9475	0.0320	0.0320	94.75	M
PCB-22	23:36	87442	1.05	1.1932	0.5051	0.5051	0.0288	0.0288	101	M
PCB-36	25:10	76826	1.02	1.1071	0.4783	0.4783	0.0310	0.0310	95.67	
PCB-39	25:32	81144	0.96	1.1581	0.4829	0.4829	0.0297	0.0297	96.59	
PCB-38	26:07	76168	0.89	1.0843	0.4842	0.4842	0.0317	0.0317	96.84	
PCB-35	26:35	86063	1.10	1.1297	0.5251	0.5251	0.0304	0.0304	105	
PCB-37	26:58	90285	1.03	1.1435	0.5442	0.5442	0.0300	0.0300	109	
S Total Tetrachlorobiphenyls					21.5	21.3	0.0571	0.0571		RQ
D PCB-54L	20:13	3394991	0.79	0.5562	102.5	102.5	0.0371	0.0371	102	
* PCB-52L	24:47	8404949	0.80		100.0	100.0				
D PCB-81L	33:41	10352263	0.82	1.2470	98.8	98.8	0.1396	0.1396	98.78	
D PCB-77L	34:15	11078136	0.81	1.3212	99.8	99.8	0.1318	0.1318	99.76	
PCB-54	20:16	17905	0.67	1.2733	0.4142	0.4142	0.0222	0.0222	82.84	
PCB-50	22:25	96228	0.82	0.8578	1.047	1.047	0.0725	0.0725	105	
PCB-53 (C50)	22:25	96228	0.82	0.8578	1.047	1.047	0.0725	0.0725	105	
PCB-45	23:09	86958	0.74	0.8264	0.9820	0.9820	0.0753	0.0753	98.20	M
PCB-51 (C45)	23:09	86958	0.74	0.8264	0.9820	0.9820	0.0753	0.0753	98.20	M
PCB-46	23:24	43592	0.76	0.7101	0.5729	0.5729	0.0876	0.0876	115	M
PCB-52	24:49	45329	0.77	0.9194	0.5029	0.4601	0.0677	0.0677	101	RQ
PCB-43	24:57	115263	0.78	1.0333	1.041	1.041	0.0602	0.0602	104	M
PCB-73 (C43)	24:57	115263	0.78	1.0333	1.041	1.041	0.0602	0.0602	104	M
PCB-49	25:16	121491	0.76	1.0685	1.061	1.061	0.0582	0.0582	106	
PCB-69 (C49)	25:16	121491	0.76	1.0685	1.061	1.061	0.0582	0.0582	106	
PCB-48	25:35	46735	0.76	0.8399	0.5193	0.5193	0.0741	0.0741	104	
PCB-44	25:50	152988	0.76	0.9731	1.467	1.467	0.0639	0.0639	97.82	
PCB-47 (C44)	25:50	152988	0.76	0.9731	1.467	1.467	0.0639	0.0639	97.82	
PCB-65 (C44)	25:50	152988	0.76	0.9731	1.467	1.467	0.0639	0.0639	97.82	
PCB-59	26:08	193231	0.73	1.1853	1.521	1.521	0.0525	0.0525	101	
PCB-62 (C59)	26:08	193231	0.73	1.1853	1.521	1.521	0.0525	0.0525	101	
PCB-75 (C59)	26:08	193231	0.73	1.1853	1.521	1.521	0.0525	0.0525	101	
PCB-42	26:20	43465	0.87	0.8097	0.5010	0.5010	0.0769	0.0769	100	
PCB-40	26:49	153053	0.82	0.8863	1.612	1.612	0.0702	0.0702	107	M
PCB-41 (C40)	26:49	153053	0.82	0.8863	1.612	1.612	0.0702	0.0702	107	M
PCB-71 (C40)	26:49	153053	0.82	0.8863	1.612	1.612	0.0702	0.0702	107	M
PCB-64	27:03	57196	0.77	1.1776	0.5417	0.4533	0.0528	0.0528	108	RQ
PCB-72	27:52	59320	0.66	1.0943	0.5059	0.5059	0.0569	0.0569	101	
PCB-68	28:10	62752	0.87	1.2533	0.4673	0.4673	0.0497	0.0497	93.46	
PCB-57	28:35	54918	0.70	1.0818	0.4738	0.4738	0.0575	0.0575	94.75	
PCB-58	28:50	60758	0.77	1.3253	0.4830	0.4278	0.0470	0.0470	96.59	RQ
PCB-67	28:59	79670	0.84	1.4230	0.5225	0.5225	0.0437	0.0437	104	
PCB-63	29:15	60720	0.75	1.1240	0.5042	0.5042	0.0554	0.0554	101	
PCB-61	29:35	264950	0.80	1.2612	1.960	1.960	0.0493	0.0493	98.02	
PCB-70 (C61)	29:35	264950	0.80	1.2612	1.960	1.960	0.0493	0.0493	98.02	
PCB-74 (C61)	29:35	264950	0.80	1.2612	1.960	1.960	0.0493	0.0493	98.02	
PCB-76 (C61)	29:35	264950	0.80	1.2612	1.960	1.960	0.0493	0.0493	98.02	
PCB-66	29:56	66199	0.79	1.2583	0.4910	0.4910	0.0495	0.0495	98.20	
PCB-55	30:04	77673	0.73	1.3236	0.5476	0.5476	0.0470	0.0470	110	
PCB-56	30:35	74659	0.77	1.2334	0.5649	0.5649	0.0505	0.0505	113	
PCB-60	30:48	60472	0.74	1.1230	0.5025	0.5025	0.0554	0.0554	101	
PCB-80	31:13	74270	0.87	1.3243	0.5234	0.5234	0.0470	0.0470	105	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:44	77395	0.67	1.4368	0.5027	0.5027	0.0433	0.0433	101	M
PCB-78	33:18	70824	0.66	1.1618	0.5689	0.5689	0.0536	0.0536	114	M
PCB-81	33:43	57961	0.65	1.0802	0.5183	0.5183	0.0588	0.0588	104	M
PCB-77	34:17	64742	0.68	1.0836	0.5393	0.5393	0.0563	0.0563	108	M
S Total Pentachlorobiphenyls					23.1	22.8	0.0196	0.0196		RQ
D PCB-104L	25:44	6938320	1.60	1.2161	102.3	102.3	0.0156	0.0156	102	
* PCB-101L	31:38	5575663	1.59		100.0	100.0				
D PCB-123L	36:16	10371480	1.57	0.9731	99.5	99.5	1.148	1.148	99.48	
D PCB-118L	36:35	10759990	1.57	1.0102	99.4	99.4	1.105	1.105	99.42	
D PCB-114L	37:07	10504311	1.60	0.9949	98.6	98.6	1.122	1.122	98.55	
D PCB-105L	37:46	10177357	1.59	0.9514	99.8	99.8	1.174	1.174	99.85	
* PCB-127L	39:15	10713438	1.58		100.0	100.0				
D PCB-126L	40:51	9958778	1.60	0.9439	98.5	98.5	1.183	1.183	98.48	
PCB-104	25:45	34754	1.77	1.0087	0.4966	0.4966	0.0112	0.0112	99.32	
PCB-96	26:08	38490	1.57	1.0940	0.5071	0.5071	0.0103	0.0103	101	
PCB-103	28:04	30305	1.75	0.8741	0.4997	0.4997	0.0129	0.0129	99.93	M
PCB-94	28:17	23082	1.55	0.7640	0.5235	0.4354	0.0147	0.0147	105	RQMa
PCB-95	28:44	24505	1.55	0.8033	0.5040	0.4397	0.0140	0.0140	101	RQ
PCB-93	28:57	59164	1.70	0.8429	1.012	1.012	0.0134	0.0134	101	
PCB-100 (C93)	28:57	59164	1.70	0.8429	1.012	1.012	0.0134	0.0134	101	
PCB-98	29:08	57283	1.67	0.8262	0.999	0.999	0.0136	0.0136	99.93	M
PCB-102 (C98)	29:08	57283	1.67	0.8262	0.999	0.999	0.0136	0.0136	99.93	M
PCB-88	29:30	58044	1.45	0.8013	1.044	1.044	0.0141	0.0141	104	M
PCB-91 (C88)	29:30	58044	1.45	0.8013	1.044	1.044	0.0141	0.0141	104	M
PCB-84	29:48	25161	1.48	0.7299	0.4968	0.4968	0.0154	0.0154	99.36	M
PCB-89	30:16	27593	1.55	0.7798	0.5718	0.5100	0.0144	0.0144	114	RQ
PCB-121	30:42	40059	1.55	1.2964	0.4829	0.4454	0.008690	0.008690	96.59	RQM
PCB-92	31:05	29937	1.63	0.8546	0.5049	0.5049	0.0132	0.0132	101	
PCB-90	31:39	98736	1.32	0.9550	1.490	1.490	0.0118	0.0118	99.34	M
PCB-101 (C90)	31:39	98736	1.32	0.9550	1.490	1.490	0.0118	0.0118	99.34	M
PCB-113 (C90)	31:39	98736	1.32	0.9550	1.490	1.490	0.0118	0.0118	99.34	M
PCB-83	32:15	57832	1.50	0.8385	0.994	0.994	0.0134	0.0134	99.41	M
PCB-99 (C83)	32:15	57832	1.50	0.8385	0.994	0.994	0.0134	0.0134	99.41	M
PCB-112	32:21	50114	1.73	1.4111	0.5119	0.5119	0.007984	0.007984	102	M
PCB-86	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-87 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-97 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-109 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-119 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-125 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-85	33:27	110009	1.53	1.0408	1.523	1.523	0.0108	0.0108	102	
PCB-116 (C85)	33:27	110009	1.53	1.0408	1.523	1.523	0.0108	0.0108	102	
PCB-117 (C85)	33:27	110009	1.53	1.0408	1.523	1.523	0.0108	0.0108	102	
PCB-110	33:42	83392	1.36	1.1919	1.008	1.008	0.009452	0.009452	101	M
PCB-115 (C110)	33:42	83392	1.36	1.1919	1.008	1.008	0.009452	0.009452	101	M
PCB-82	33:57	28943	1.51	0.8303	0.5024	0.5024	0.0136	0.0136	100	
PCB-111	34:21	40194	1.73	1.2125	0.4778	0.4778	0.009291	0.009291	95.55	
PCB-120	34:49	53063	1.50	1.4762	0.5181	0.5181	0.007631	0.007631	104	M
PCB-108	35:56	114382	1.53	1.1405	0.9686	0.9686	0.0349	0.0349	96.86	M
PCB-124 (C108)	35:56	114382	1.53	1.1405	0.9686	0.9686	0.0349	0.0349	96.86	M
PCB-107	36:11	66807	1.70	1.2121	0.5323	0.5323	0.0329	0.0329	106	
PCB-123	36:17	56282	1.68	1.0722	0.5061	0.5061	0.0360	0.0360	101	
PCB-106	36:24	57304	1.76	1.0839	0.5106	0.5106	0.0367	0.0367	102	
PCB-118	36:38	65547	1.45	1.2055	0.5053	0.5053	0.0316	0.0316	101	
PCB-122	36:58	49485	1.43	0.9567	0.4995	0.4995	0.0416	0.0416	99.91	
PCB-114	37:08	55723	1.75	1.0842	0.4893	0.4893	0.0362	0.0362	97.86	
PCB-105	37:48	65478	1.55	1.1879	0.5416	0.5416	0.0346	0.0346	108	
PCB-127	39:16	57517	1.59	1.1394	0.4875	0.4875	0.0350	0.0350	97.51	
PCB-126	40:52	49570	1.50	1.0976	0.4535	0.4535	0.0385	0.0385	90.70	M
S Total Hexachlorobiphenyls					21.0	20.8	0.0233	0.0233		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-155L	31:24	6307321	1.26	1.0851	104.2	104.2	0.0371	0.0371	104	
* PCB-138L	39:43	7044213	1.32		100.0	100.0				
\$ PCB-159L	41:57	4449727	1.28	0.5118	95.5	95.5	1.423	1.423	95.48	a
D PCB-167L	42:43	9105316	1.28	1.2572	102.8	102.8	0.7361	0.7361	103	
D PCB-156L	43:52	17145311	1.29	1.2106	201.1	201.1	0.7644	0.7644	101	
D PCB-157L (C156L)	43:52	17145311	1.29	1.2106	201.1	201.1	0.7644	0.7644	101	
D PCB-169L	47:06	9181390	1.25	1.2439	104.8	104.8	0.7440	0.7440	105	
PCB-155	31:25	28040	1.43	0.9444	0.4707	0.4707	0.005467	0.005467	94.15	
PCB-152	31:35	31058	1.33	0.9895	0.4976	0.4976	0.005218	0.005218	99.53	
PCB-150	31:47	30371	1.33	1.0132	0.4752	0.4752	0.005096	0.005096	95.05	
PCB-136	32:08	33387	1.06	1.0116	0.5233	0.5233	0.005104	0.005104	105	
PCB-145	32:27	31426	1.27	0.9685	0.5145	0.5145	0.005331	0.005331	103	
PCB-148	33:58	24113	1.24	0.7603	0.5028	0.5028	0.006791	0.006791	101	
PCB-135	34:34	45950	1.32	0.7256	1.004	1.004	0.007116	0.007116	100	M
PCB-151 (C135)	34:34	45950	1.32	0.7256	1.004	1.004	0.007116	0.007116	100	M
PCB-154	34:47	23372	1.05	0.8129	0.4558	0.4558	0.006351	0.006351	91.17	M
PCB-144	35:08	26036	1.25	0.7852	0.5257	0.5257	0.006575	0.006575	105	M
PCB-147	35:29	85550	1.43	0.8950	1.079	1.079	0.0318	0.0318	108	M
PCB-149 (C147)	35:29	85550	1.43	0.8950	1.079	1.079	0.0318	0.0318	108	M
PCB-134	35:47	73190	1.39	0.7967	1.037	1.037	0.0357	0.0357	104	
PCB-143 (C134)	35:47	73190	1.39	0.7967	1.037	1.037	0.0357	0.0357	104	
PCB-139	36:04	77045	1.28	0.8769	0.992	0.992	0.0324	0.0324	99.19	
PCB-140 (C139)	36:04	77045	1.28	0.8769	0.992	0.992	0.0324	0.0324	99.19	
PCB-131	36:17	42510	1.37	0.7503	0.6396	0.6396	0.0379	0.0379	128	M
PCB-142	36:25	31461	1.24	0.7507	0.4731	0.4731	0.0379	0.0379	94.62	M
PCB-132	36:44	36598	1.38	0.7489	0.5517	0.5517	0.0380	0.0380	110	
PCB-133	37:15	32377	1.21	0.8096	0.4515	0.4515	0.0351	0.0351	90.30	
PCB-165	37:38	42251	1.13	1.0247	0.4655	0.4655	0.0278	0.0278	93.10	
PCB-146	37:53	42036	1.25	0.9637	0.4924	0.4924	0.0295	0.0295	98.49	
PCB-161	38:01	46946	1.09	1.1288	0.4695	0.4695	0.0252	0.0252	93.91	
PCB-153	38:32	93081	1.35	1.0938	0.9607	0.9607	0.0260	0.0260	96.07	
PCB-168 (C153)	38:32	93081	1.35	1.0938	0.9607	0.9607	0.0260	0.0260	96.07	
PCB-141	38:41	35752	1.24	0.8755	0.5372	0.4610	0.0325	0.0325	107	RQ
PCB-130	39:06	32146	1.13	0.7051	0.5147	0.5147	0.0403	0.0403	103	
PCB-137	39:19	33182	1.29	0.7767	0.4823	0.4823	0.0366	0.0366	96.46	
PCB-164	39:26	39657	1.24	1.0382	0.5052	0.4312	0.0274	0.0274	101	RQ
PCB-129	39:45	164754	1.25	0.9464	1.965	1.965	0.0301	0.0301	98.26	M
PCB-138 (C129)	39:45	164754	1.25	0.9464	1.965	1.965	0.0301	0.0301	98.26	M
PCB-160 (C129)	39:45	164754	1.25	0.9464	1.965	1.965	0.0301	0.0301	98.26	M
PCB-163 (C129)	39:45	164754	1.25	0.9464	1.965	1.965	0.0301	0.0301	98.26	M
PCB-158	40:08	60291	1.30	1.3110	0.5192	0.5192	0.0217	0.0217	104	M
PCB-128	40:58	83902	1.12	0.9829	0.9636	0.9636	0.0289	0.0289	96.36	M
PCB-166 (C128)	40:58	83902	1.12	0.9829	0.9636	0.9636	0.0289	0.0289	96.36	M
PCB-159	41:58	58381	1.13	1.3856	0.4757	0.4757	0.0205	0.0205	95.13	
PCB-162	42:15	55301	1.24	1.2571	0.4966	0.4966	0.0226	0.0226	99.32	M
PCB-167	42:45	51226	1.28	1.1159	0.5042	0.5042	0.0214	0.0214	101	M
PCB-156	43:55	88451	1.30	1.1104	0.9292	0.9292	0.0315	0.0315	92.92	
PCB-157 (C156)	43:55	88451	1.30	1.1104	0.9292	0.9292	0.0315	0.0315	92.92	
PCB-169	47:07	54907	1.08	1.1628	0.5143	0.5143	0.0207	0.0207	103	M
S Total Heptachlorobiphenyls					12.2	11.9	0.002448	0.002448		RQ
D PCB-188L	37:08	7116082	1.05	1.3133	97.2	97.2	0.0479	0.0479	97.22	
* PCB-180L	45:16	5573109	1.10		100.0	100.0				
D PCB-170L	46:31	4764508	1.06	0.8362	102.2	102.2	0.0753	0.0753	102	
D PCB-189L	49:37	11329298	1.05	1.4414	98.9	98.9	0.1878	0.1878	98.87	
PCB-188	37:09	39693	1.04	1.1350	0.4915	0.4915	0.000958	0.000958	98.29	
PCB-179	37:30	46777	0.90	1.4276	0.5516	0.5516	0.000926	0.000926	110	
PCB-184	38:01	38134	1.11	1.3672	0.4695	0.4695	0.000967	0.000967	93.91	
PCB-176	38:21	40584	0.92	1.2331	0.5541	0.5541	0.001072	0.001072	111	
PCB-186	38:49	44732	1.16	1.4737	0.5110	0.5110	0.000897	0.000897	102	
PCB-178	40:12	25284	1.13	0.8946	0.4758	0.4758	0.001477	0.001477	95.15	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-175	40:49	30945	1.15	0.9524	0.5470	0.5470	0.001388	0.001388	109	
PCB-187	41:07	28437	1.05	1.1018	0.4744	0.4345	0.001199	0.001199	94.89	RQ
PCB-182	41:18	24644	0.92	0.9247	0.4486	0.4486	0.001429	0.001429	89.73	
PCB-183	41:44	64294	0.95	0.9825	1.102	1.102	0.001345	0.001345	110	
PCB-185 (C183)	41:44	64294	0.95	0.9825	1.102	1.102	0.001345	0.001345	110	
PCB-174	41:58	30210	1.14	0.9642	0.5275	0.5275	0.001371	0.001371	105	
PCB-177	42:23	24827	1.05	0.9773	0.5151	0.4277	0.001352	0.001352	103	RQM
PCB-181	42:47	25626	1.05	0.9505	0.5072	0.4538	0.001390	0.001390	101	RQ
PCB-171	43:00	60459	0.99	0.9336	1.090	1.090	0.001416	0.001416	109	
PCB-173 (C171)	43:00	60459	0.99	0.9336	1.090	1.090	0.001416	0.001416	109	
PCB-172	44:39	26430	1.21	0.8519	0.5223	0.5223	0.001551	0.001551	104	
PCB-192	44:56	37024	1.15	1.3459	0.4631	0.4631	0.000982	0.000982	92.62	
PCB-180	45:15	66935	0.99	1.1676	0.9651	0.9651	0.001132	0.001132	96.51	
PCB-193 (C180)	45:15	66935	0.99	1.1676	0.9651	0.9651	0.001132	0.001132	96.51	
PCB-191	45:38	35223	1.09	1.2891	0.4600	0.4600	0.001025	0.001025	91.99	
PCB-170	46:33	25755	1.05	1.1865	0.5134	0.4556	0.001421	0.001421	103	RQ
PCB-190	47:03	40117	0.96	1.3322	0.5069	0.5069	0.000992	0.000992	101	
PCB-189	49:37	53094	1.05	0.9633	0.4865	0.4865	0.0271	0.0271	97.30	
S Total Octachlorobiphenyls					5.918	5.838	0.0106	0.0106		RQ
D PCB-202L	42:30	5622444	0.90	0.9818	102.8	102.8	0.0263	0.0263	103	
* PCB-194L	51:44	7949496	0.91		100.0	100.0				
D PCB-205L	52:12	9259085	0.90	1.1786	98.8	98.8	0.0675	0.0675	98.83	
PCB-202	42:32	25714	0.97	1.0359	0.4415	0.4415	0.004243	0.004243	88.30	
PCB-201	43:25	26064	1.00	0.9754	0.4753	0.4753	0.004507	0.004507	95.06	
PCB-204	44:05	29939	0.90	1.0485	0.5078	0.5078	0.004192	0.004192	102	
PCB-197	44:22	31937	0.89	1.1458	0.5363	0.4958	0.003836	0.003836	107	RQM
PCB-200	44:26	25941	0.88	1.0072	0.4581	0.4581	0.004364	0.004364	91.62	
PCB-198	47:14	49584	0.78	0.8698	1.014	1.014	0.005054	0.005054	101	
PCB-199 (C198)	47:14	49584	0.78	0.8698	1.014	1.014	0.005054	0.005054	101	
PCB-196	47:56	21772	0.81	0.7806	0.4960	0.4960	0.005631	0.005631	99.21	M
PCB-203	48:05	26586	0.95	0.9292	0.5089	0.5089	0.004730	0.004730	102	
PCB-195	49:23	31222	0.89	0.8263	0.4480	0.4081	0.0306	0.0306	89.61	RQM
PCB-194	51:47	47820	0.76	0.9735	0.5305	0.5305	0.0260	0.0260	106	M
PCB-205	52:13	50563	1.02	1.0878	0.5020	0.5020	0.0233	0.0233	100	M
S Total Nonachlorobiphenyls					1.638	1.638	0.0828	0.0828		
D PCB-208L	49:09	7500908	0.79	0.9576	98.5	98.5	0.8140	0.8140	98.54	
D PCB-206L	53:57	5499727	0.80	0.6947	99.6	99.6	1.122	1.122	99.59	
PCB-208	49:12	41595	0.81	1.1374	0.4875	0.4875	0.0795	0.0795	97.50	M
PCB-207	50:06	49926	0.75	1.3756	0.5583	0.5583	0.0760	0.0760	112	M
PCB-206	53:59	43449	0.66	1.3346	0.5920	0.5920	0.0930	0.0930	118	M
D PCB-209L	55:35	5278978	0.72	0.6669	99.6	99.6	0.0537	0.0537	99.58	
DCB Decachlorobiphenyl	55:38	28972	0.69	1.1004	0.4987	0.4987	0.0132	0.0132	99.75	
S Polychlorinated biphenyls, Total					103.7	0.4987	0.0268	0.0268		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L0.51668P_00011

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-May-2024 14:36:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-001
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:26:08 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 16:04:19

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:38	11:36	2	0.726	11164084	4532204	3607	9017	1257		
202.0766	11:38	11:36	2	0.726	3512893	1410849	1621	4052	870	3.18(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:46	2	0.861	10820055	3687990	3607	9017	1022		
202.0766	13:47	13:46	2	0.861	3314313	1128820	1621	4052	696	3.26(2.66-3.60)	
PCB-1											
188.0393	11:39	11:37	2	1.001	66599	27071	128	320	211		
190.0363	11:39	11:37	2	1.001	21025	8467	101	252	84	3.17(2.66-3.60)	
PCB-2											
188.0393	13:38	13:36	2	0.989	62227	19529	128	320	153		
190.0363	13:37	13:36	1	0.988	20215	5681	101	252	56	3.08(2.66-3.60)	
PCB-3											
188.0393	13:48	13:47	2	1.001	64767	22803	128	320	178		
190.0363	13:48	13:47	2	1.001	22496	6864	101	252	68	2.88(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:02	1	0.877	3636981	1168381	538	1345	2172		
236.0376	14:02	14:02	1	0.877	2267540	732734	221	552	3316	1.60(1.33-1.79)	
PCB-9L											
234.0406	16:01	15:59	2		5513591	1579678	538	1345	2936		
236.0376	16:01	15:59	2		3346284	968408	221	552	4382	1.65(1.33-1.79)	
PCB-15L											
234.0406	19:55	19:54	1	1.244	5904134	1412431	538	1345	2625		
236.0376	19:55	19:54	1	1.244	3579636	868377	221	552	3929	1.65(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-4											
222.0003	14:04	14:02	2	1.002	22626	7167	53	132	135		
223.9974	14:04	14:02	2	1.002	13748	4609	62	155	74	1.65(1.33-1.79)	
PCB-10											
222.0003	14:14	14:13	2	1.014	29842	9323	53	132	176		
223.9974	14:14	14:13	1	1.013	18660	5959	62	155	96	1.60(1.33-1.79)	
PCB-9											
222.0003	16:02	16:00	2	1.142	30028	8278	53	132	156		
223.9974	16:02	16:00	2	1.142	21473	7126	62	155	115	1.40(1.33-1.79)	
PCB-7											
222.0003	16:11	16:10	1	1.153	36288	9445	53	132	178		
223.9974	16:12	16:10	2	1.154	21869	6316	62	155	102	1.66(1.33-1.79)	
PCB-6											
222.0003	16:26	16:25	1	1.171	40226	11330	53	132	214		
223.9974	16:26	16:25	1	1.171	22608	6392	62	155	103	1.78(1.33-1.79)	
PCB-5											
222.0003	16:44	16:43	1	1.192	31604	8701	53	132	164		
223.9974	16:44	16:43	1	1.192	19915	5330	62	155	86	1.59(1.33-1.79)	
PCB-8											
222.0003	16:52	16:50	2	1.202	37559	10534	53	132	199		
223.9974	16:52	16:50	2	1.202	24418	6083	62	155	98	1.54(1.33-1.79)	
PCB-14											
222.0003	18:29	18:28	2	0.928	33908	7989	53	132	151		
223.9974	18:29	18:28	2	0.928	21199	5635	62	155	91	1.60(1.33-1.79)	
PCB-11											
222.0003	19:20	19:18	2	0.970	34222	8269	53	132	156		
223.9974	19:20	19:18	2	0.971	19272	3910	62	155	63	1.78(1.33-1.79)	
PCB-12											
222.0003	19:38	19:36	2	0.985	61969	10519	53	132	198		
223.9974	19:39	19:36	2	0.986	35206	5615	62	155	91	1.76(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:38	19:36	2	0.985	61969	10519	53	132	198		
223.9974	19:39	19:36	2	0.986	35206	5615	62	155	91	1.76(1.33-1.79)	
PCB-15											
222.0003	19:57	19:55	2	1.001	40370	8915	53	132	168		
223.9974	19:56	19:55	1	1.001	23514	5303	62	155	86	1.72(1.33-1.79)	
PCB-19L											
268.0016	17:09	17:08	1	0.840	1897205	520126	418	1045	1244		
269.9986	17:09	17:08	1	0.840	1814585	500455	1834	4585	273	1.05(0.88-1.20)	
PCB-32L											
268.0016	20:24	20:23	2		3112703	738308	418	1045	1766		
269.9986	20:24	20:23	2		2844507	676250	1834	4585	369	1.09(0.88-1.20)	
PCB-31L											
268.0016	22:40	22:38	1		8607254	2000225	1020	2550	1961		
269.9986	22:40	22:38	1		8161977	1873248	713	1782	2627	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37L											
268.0016	26:57	26:55	1	1.189	7444868	1502675	1020	2550	1473		
269.9986	26:57	26:55	1	1.189	7063024	1422829	713	1782	1996	1.05(0.88-1.20)	
PCB-19											
255.9613	17:10	17:09	2	1.002	13869	4052	38	95	107		
257.9584	17:10	17:09	2	1.002	13379	3726	1	2	3726	1.04(0.88-1.20)	
PCB-18											
255.9613	19:01	18:59	2	1.109	34338	7429	38	95	196		
257.9584	19:00	18:59	1	1.108	28686	5294	1	2	5294	1.20(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:01	18:59	2	1.109	34338	7429	38	95	196		
257.9584	19:00	18:59	1	1.108	28686	5294	1	2	5294	1.20(0.88-1.20)	
PCB-17											
255.9613	19:27	19:26	1	1.134	11628	3157	38	95	83		
257.9584	19:26	19:26	0	1.133	11539	2725	1	2	2725	1.01(0.88-1.20)	
PCB-27											
255.9613	19:40	19:39	2	1.147	13976	3078	38	95	81		RQ
257.9584	19:40	19:39	2	1.147	16358	4332	1	2	4332	0.85(0.88-1.20)	
Empc Correction					13438	2959	1	2	2959		
PCB-24											
255.9613	19:47	19:46	2	1.154	16997	4146	38	95	109		RQ
Empc Correction					14452	4243	38	95	112		
257.9584	19:47	19:46	2	1.154	13897	4080	1	2	4080	1.22(0.88-1.20)	
PCB-16											
255.9613	19:54	19:53	2	1.161	11069	2941	38	95	77		
257.9584	19:54	19:53	2	1.161	9853	2085	1	2	2085	1.12(0.88-1.20)	
PCB-32											
255.9613	20:25	20:23	2	1.191	16940	3780	38	95	99		
257.9584	20:25	20:23	2	1.191	17275	4477	1	2	4477	0.98(0.88-1.20)	
PCB-34											
255.9613	21:41	21:39	2	1.265	41836	9374	199	497	47		
257.9584	21:41	21:39	2	1.265	39956	9560	203	507	47	1.05(0.88-1.20)	
PCB-23											
255.9613	21:50	21:48	1	1.273	43162	9588	199	497	48		RQM
Empc Correction					36934	7606	199	497	38		M
257.9584	21:50	21:48	1	1.273	35514	7314	203	507	36	1.22(0.88-1.20)	
PCB-26											
255.9613	22:10	22:08	2	1.293	80639	16985	199	497	85		
257.9584	22:10	22:08	2	1.293	77133	17116	203	507	84	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:10	22:08	2	1.293	80639	16985	199	497	85		
257.9584	22:10	22:08	2	1.293	77133	17116	203	507	84	1.05(0.88-1.20)	
PCB-25											
255.9613	22:23	22:21	2	0.830	50612	10278	199	497	52		
257.9584	22:23	22:21	2	0.830	47166	9876	203	507	49	1.07(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31											
255.9613	22:41	22:40	1	0.842	42270	9782	199	497	49		
257.9584	22:41	22:40	1	0.842	42584	9517	203	507	47	0.99(0.88-1.20)	
PCB-20											
255.9613	23:00	22:58	1	0.853	85757	15845	199	497	80		
257.9584	23:00	22:58	1	0.853	77537	13892	203	507	68	1.11(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:00	22:58	1	0.853	85757	15845	199	497	80		
257.9584	23:00	22:58	1	0.853	77537	13892	203	507	68	1.11(0.88-1.20)	
PCB-21											
255.9613	23:13	23:07	6	0.862	73767	9550	199	497	48		M
257.9584	23:10	23:07	2	0.859	73943	9215	203	507	45	1.00(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:13	23:07	6	0.862	73767	9550	199	497	48		M
257.9584	23:10	23:07	2	0.859	73943	9215	203	507	45	1.00(0.88-1.20)	M
PCB-22											
255.9613	23:36	23:35	1	0.876	44761	9832	199	497	49		M
257.9584	23:36	23:35	1	0.876	42681	10672	203	507	53	1.05(0.88-1.20)	M
PCB-36											
255.9613	25:10	25:09	1	0.934	38841	6743	199	497	34		
257.9584	25:09	25:09	1	0.934	37985	8229	203	507	41	1.02(0.88-1.20)	
PCB-39											
255.9613	25:32	25:30	1	0.947	39820	9136	199	497	46		
257.9584	25:32	25:30	1	0.947	41324	9398	203	507	46	0.96(0.88-1.20)	
PCB-38											
255.9613	26:07	26:05	2	0.969	35932	7439	199	497	37		
257.9584	26:06	26:05	1	0.969	40236	8011	203	507	39	0.89(0.88-1.20)	
PCB-35											
255.9613	26:35	26:32	2	0.986	45018	8806	199	497	44		
257.9584	26:35	26:32	3	0.987	41045	6646	203	507	33	1.10(0.88-1.20)	
PCB-37											
255.9613	26:58	26:57	1	1.001	45729	8804	199	497	44		
257.9584	26:58	26:57	1	1.001	44556	9167	203	507	45	1.03(0.88-1.20)	
PCB-54L											
301.9626	20:13	20:12	1	0.816	1499419	373718	75	187	4983		
303.9597	20:13	20:12	1	0.816	1895572	464452	42	105	11058	0.79(0.65-0.89)	
PCB-52L											
301.9626	24:47	24:46	1		3741565	815378	637	1592	1280		
303.9597	24:47	24:46	1		4663384	1019625	641	1602	1591	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:41	33:41	1	1.359	4654546	911958	637	1592	1432		
303.9597	33:41	33:41	1	1.359	5697717	1107589	641	1602	1728	0.82(0.65-0.89)	
PCB-77L											
301.9626	34:15	34:14	1	1.382	4945005	941207	637	1592	1478		
303.9597	34:15	34:14	1	1.382	6133131	1159647	641	1602	1809	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54											
289.9224	20:16	20:13	2	1.000	7157	1991	30	75	66		
291.9194	20:16	20:13	2	1.000	10748	2683	65	162	41	0.67(0.65-0.89)	
PCB-50											
289.9224	22:25	22:24	1	1.109	43317	9831	199	497	49		
291.9194	22:25	22:24	1	1.109	52911	12334	314	785	39	0.82(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:25	22:24	1	1.109	43317	9831	199	497	49		
291.9194	22:25	22:24	1	1.109	52911	12334	314	785	39	0.82(0.65-0.89)	
PCB-45											
289.9224	23:09	23:08	1	1.145	36905	5597	199	497	28		M
291.9194	23:10	23:08	1	1.145	50053	6290	314	785	20	0.74(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:09	23:08	1	1.145	36905	5597	199	497	28		M
291.9194	23:10	23:08	1	1.145	50053	6290	314	785	20	0.74(0.65-0.89)	M
PCB-46											
289.9224	23:24	23:22	2	1.157	18791	3719	199	497	19		M
291.9194	23:23	23:22	1	1.157	24801	5066	314	785	16	0.76(0.65-0.89)	M
PCB-52											
289.9224	24:49	24:47	1	1.227	23937	5662	199	497	28		RQ
	Empc Correction				19719	4104	199	497	21		
291.9194	24:49	24:47	1	1.227	25610	5331	314	785	17	0.93(0.65-0.89)	
PCB-43											
289.9224	24:57	24:56	1	1.234	50336	6169	199	497	31		M
291.9194	24:57	24:56	1	1.234	64927	9054	314	785	29	0.78(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:57	24:56	1	1.234	50336	6169	199	497	31		M
291.9194	24:57	24:56	1	1.234	64927	9054	314	785	29	0.78(0.65-0.89)	M
PCB-49											
289.9224	25:16	25:14	2	1.250	52598	8467	199	497	43		
291.9194	25:16	25:14	2	1.250	68893	10437	314	785	33	0.76(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:16	25:14	2	1.250	52598	8467	199	497	43		
291.9194	25:16	25:14	2	1.250	68893	10437	314	785	33	0.76(0.65-0.89)	
PCB-48											
289.9224	25:35	25:33	1	1.265	20161	4831	199	497	24		
291.9194	25:34	25:33	1	1.264	26574	5612	314	785	18	0.76(0.65-0.89)	
PCB-44											
289.9224	25:50	25:48	2	1.278	66170	11476	199	497	58		
291.9194	25:50	25:48	2	1.278	86818	13668	314	785	44	0.76(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:50	25:48	2	1.278	66170	11476	199	497	58		
291.9194	25:50	25:48	2	1.278	86818	13668	314	785	44	0.76(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:50	25:48	2	1.278	66170	11476	199	497	58		
291.9194	25:50	25:48	2	1.278	86818	13668	314	785	44	0.76(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-59											
289.9224	26:08	26:06	1	1.292	81291	11624	199	497	58		
291.9194	26:08	26:06	1	1.292	111940	15807	314	785	50	0.73(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:08	26:06	1	1.292	81291	11624	199	497	58		
291.9194	26:08	26:06	1	1.292	111940	15807	314	785	50	0.73(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:08	26:06	1	1.292	81291	11624	199	497	58		
291.9194	26:08	26:06	1	1.292	111940	15807	314	785	50	0.73(0.65-0.89)	
PCB-42											
289.9224	26:20	26:18	1	1.302	20234	3794	199	497	19		
291.9194	26:21	26:18	2	1.303	23231	5239	314	785	17	0.87(0.65-0.89)	
PCB-40											
289.9224	26:49	26:48	1	1.326	69186	10548	199	497	53		M
291.9194	26:49	26:48	1	1.326	83867	12246	314	785	39	0.82(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:49	26:48	1	1.326	69186	10548	199	497	53		M
291.9194	26:49	26:48	1	1.326	83867	12246	314	785	39	0.82(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:49	26:48	1	1.326	69186	10548	199	497	53		M
291.9194	26:49	26:48	1	1.326	83867	12246	314	785	39	0.82(0.65-0.89)	M
PCB-64											
289.9224	27:03	27:01	2	1.338	24882	5123	199	497	26		RQ
291.9194	27:03	27:01	2	1.338	43465	8272	314	785	26	0.57(0.65-0.89)	
Empc Correction					32314	6653	314	785	21		
PCB-72											
289.9224	27:52	27:51	1	0.827	23660	4853	199	497	24		
291.9194	27:53	27:51	1	0.828	35660	7770	314	785	25	0.66(0.65-0.89)	
PCB-68											
289.9224	28:10	28:09	1	0.836	29228	5246	199	497	26		
291.9194	28:10	28:09	1	0.836	33524	7459	314	785	24	0.87(0.65-0.89)	
PCB-57											
289.9224	28:35	28:34	1	0.848	22605	4646	199	497	23		
291.9194	28:36	28:34	2	0.849	32313	7342	314	785	23	0.70(0.65-0.89)	
PCB-58											
289.9224	28:50	28:48	1	0.856	34260	6621	199	497	33		RQ
Empc Correction					26431	6036	199	497	30		
291.9194	28:50	28:48	1	0.856	34327	7839	314	785	25	1.00(0.65-0.89)	
PCB-67											
289.9224	28:59	28:58	1	0.860	36337	7141	199	497	36		
291.9194	29:00	28:58	1	0.861	43333	8863	314	785	28	0.84(0.65-0.89)	
PCB-63											
289.9224	29:15	29:14	1	0.868	25964	5331	199	497	27		
291.9194	29:15	29:14	1	0.868	34756	7115	314	785	23	0.75(0.65-0.89)	
PCB-61											
289.9224	29:35	29:34	1	0.878	117443	12223	199	497	61		
291.9194	29:35	29:34	1	0.878	147507	16236	314	785	52	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-70 (C61)											
289.9224	29:35	29:34	1	0.878	117443	12223	199	497	61		
291.9194	29:35	29:34	1	0.878	147507	16236	314	785	52	0.80(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:35	29:34	1	0.878	117443	12223	199	497	61		
291.9194	29:35	29:34	1	0.878	147507	16236	314	785	52	0.80(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:35	29:34	1	0.878	117443	12223	199	497	61		
291.9194	29:35	29:34	1	0.878	147507	16236	314	785	52	0.80(0.65-0.89)	
PCB-66											
289.9224	29:56	29:53	2	0.888	29166	6364	199	497	32		
291.9194	29:54	29:53	1	0.888	37033	7665	314	785	24	0.79(0.65-0.89)	
PCB-55											
289.9224	30:04	30:03	1	0.892	32723	6737	199	497	34		
291.9194	30:04	30:03	1	0.892	44950	9943	314	785	32	0.73(0.65-0.89)	
PCB-56											
289.9224	30:35	30:33	1	0.908	32555	7191	199	497	36		
291.9194	30:36	30:33	2	0.908	42104	8328	314	785	27	0.77(0.65-0.89)	
PCB-60											
289.9224	30:48	30:46	1	0.914	25722	4832	199	497	24		
291.9194	30:47	30:46	1	0.914	34750	6086	314	785	19	0.74(0.65-0.89)	
PCB-80											
289.9224	31:13	31:11	2	0.927	34507	5763	199	497	29		
291.9194	31:12	31:11	1	0.926	39763	7381	314	785	24	0.87(0.65-0.89)	
PCB-79											
289.9224	32:44	32:42	1	0.972	31187	5973	199	497	30		M
291.9194	32:44	32:42	1	0.972	46208	8189	314	785	26	0.67(0.65-0.89)	M
PCB-78											
289.9224	33:18	33:15	3	0.989	28048	5337	199	497	27		M
291.9194	33:17	33:15	1	0.988	42776	7596	314	785	24	0.66(0.65-0.89)	M
PCB-81											
289.9224	33:43	33:42	1	1.001	22843	4819	199	497	24		M
291.9194	33:44	33:42	1	1.001	35118	6555	314	785	21	0.65(0.65-0.89)	M
PCB-77											
289.9224	34:17	34:16	1	1.001	26136	5183	199	497	26		M
291.9194	34:16	34:16	0	1.000	38606	7312	314	785	23	0.68(0.65-0.89)	M
PCB-104L											
337.9207	25:44	25:42	1	0.813	4271749	931912	57	142	16349		
339.9178	25:44	25:42	1	0.813	2666571	577090	28	70	20610	1.60(1.32-1.78)	
PCB-101L											
337.9207	31:38	31:37	1		3426318	688499	57	142	12079		
339.9178	31:38	31:37	1		2149345	430401	28	70	15371	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:16	36:15	2	1.147	6332260	1258157	5590	13975	225		
339.9178	36:16	36:15	2	1.147	4039220	787783	3730	9325	211	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118L											
337.9207	36:35	36:34	1	1.157	6572835	1259467	5590	13975	225		
339.9178	36:35	36:34	1	1.157	4187155	811700	3730	9325	218	1.57(1.32-1.78)	
PCB-114L											
337.9207	37:07	37:06	1	1.173	6471551	1249296	5590	13975	223		
339.9178	37:07	37:06	1	1.173	4032760	764773	3730	9325	205	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:46	37:45	2	1.194	6250012	1185355	5590	13975	212		
339.9178	37:46	37:45	2	1.194	3927345	735373	3730	9325	197	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:15	39:14	1		6568825	1288310	5590	13975	230		
339.9178	39:15	39:14	1		4144613	798182	3730	9325	214	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:51	40:50	1	1.292	6132942	1148994	5590	13975	206		
339.9178	40:51	40:50	1	1.292	3825836	718408	3730	9325	193	1.60(1.32-1.78)	
PCB-104											
325.8804	25:45	25:44	1	1.000	22188	4465	16	40	279		
327.8775	25:45	25:44	1	1.000	12566	3520	52	130	68	1.77(1.32-1.78)	
PCB-96											
325.8804	26:08	26:06	1	1.015	23514	6543	16	40	409		
327.8775	26:07	26:06	1	1.015	14976	3810	52	130	73	1.57(1.32-1.78)	
PCB-103											
325.8804	28:04	28:02	2	1.091	19294	4174	16	40	261		M
327.8775	28:04	28:02	2	1.091	11011	2101	52	130	40	1.75(1.32-1.78)	M
PCB-94											
325.8804	28:17	28:16	1	1.099	18701	4888	16	40	306		RQMa
	Empc Correction				14030	2690	16	40	168		M
327.8775	28:17	28:16	1	1.099	9052	1736	52	130	33	2.07(1.32-1.78)	
PCB-95											
325.8804	28:44	28:42	2	1.117	18479	4151	16	40	259		RQ
	Empc Correction				14895	3613	16	40	226		
327.8775	28:43	28:42	1	1.116	9610	2331	52	130	45	1.92(1.32-1.78)	
PCB-93											
325.8804	28:57	28:55	1	1.125	37232	7676	16	40	480		
327.8775	28:57	28:55	1	1.125	21932	4483	52	130	86	1.70(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:57	28:55	1	1.125	37232	7676	16	40	480		
327.8775	28:57	28:55	1	1.125	21932	4483	52	130	86	1.70(1.32-1.78)	
PCB-98											
325.8804	29:08	29:04	4	1.132	35854	4904	16	40	307		M
327.8775	29:05	29:04	1	1.130	21429	3183	52	130	61	1.67(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:08	29:04	4	1.132	35854	4904	16	40	307		M
327.8775	29:05	29:04	1	1.130	21429	3183	52	130	61	1.67(1.32-1.78)	M
PCB-88											
325.8804	29:30	29:33	-4	1.146	34391	4768	16	40	298		M
327.8775	29:29	29:33	-5	1.146	23653	3028	52	130	58	1.45(1.32-1.78)	M

	Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
	PCB-91 (C88)											M
	325.8804	29:30	29:33	-4	1.146	34391	4768	16	40	298		M
	327.8775	29:29	29:33	-5	1.146	23653	3028	52	130	58	1.45(1.32-1.78)	M
	PCB-84											M
	325.8804	29:48	29:47	1	1.158	15027	2961	16	40	185		
	327.8775	29:46	29:47	-1	1.157	10134	1937	52	130	37	1.48(1.32-1.78)	M
	PCB-89											RQ
	325.8804	30:16	30:16	1	1.177	20119	3570	16	40	223		
		Empc Correction				16772	3456	16	40	216		
	327.8775	30:18	30:16	2	1.178	10821	2230	52	130	43	1.86(1.32-1.78)	
	PCB-121											RQM
	325.8804	30:42	30:41	1	1.193	24350	4810	16	40	301		M
	327.8775	30:42	30:41	1	1.193	19089	4968	52	130	96	1.28(1.32-1.78)	
		Empc Correction				15709	3103	52	130	60		
	PCB-92											
	325.8804	31:05	31:03	1	0.857	18551	3313	16	40	207		
	327.8775	31:05	31:03	1	0.857	11386	2282	52	130	44	1.63(1.32-1.78)	
	PCB-90											M
	325.8804	31:39	31:37	1	1.230	56246	9592	16	40	600		
	327.8775	31:39	31:37	1	1.230	42490	7411	52	130	143	1.32(1.32-1.78)	M
	PCB-101 (C90)											M
	325.8804	31:39	31:37	1	1.230	56246	9592	16	40	600		
	327.8775	31:39	31:37	1	1.230	42490	7411	52	130	143	1.32(1.32-1.78)	M
	PCB-113 (C90)											M
	325.8804	31:39	31:37	1	1.230	56246	9592	16	40	600		
	327.8775	31:39	31:37	1	1.230	42490	7411	52	130	143	1.32(1.32-1.78)	M
	PCB-83											M
	325.8804	32:15	32:13	1	1.253	34703	4538	16	40	284		M
	327.8775	32:15	32:13	2	1.254	23129	3398	52	130	65	1.50(1.32-1.78)	
	PCB-99 (C83)											M
	325.8804	32:15	32:13	1	1.253	34703	4538	16	40	284		M
	327.8775	32:15	32:13	2	1.254	23129	3398	52	130	65	1.50(1.32-1.78)	
	PCB-112											M
	325.8804	32:21	32:20	1	1.257	31739	5637	16	40	352		M
	327.8775	32:18	32:20	-2	1.256	18375	2885	52	130	55	1.73(1.32-1.78)	M
	PCB-86											M
	325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
	327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
	PCB-87 (C86)											M
	325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
	327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
	PCB-97 (C86)											M
	325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
	327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
	PCB-109 (C86)											M
	325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
	327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-119 (C86)											M
325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
PCB-85											
325.8804	33:27	33:25	1	1.300	66488	8141	16	40	509		
327.8775	33:26	33:25	1	1.299	43521	5451	52	130	105	1.53(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:27	33:25	1	1.300	66488	8141	16	40	509		
327.8775	33:26	33:25	1	1.299	43521	5451	52	130	105	1.53(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:27	33:25	1	1.300	66488	8141	16	40	509		
327.8775	33:26	33:25	1	1.299	43521	5451	52	130	105	1.53(1.32-1.78)	
PCB-110											M
325.8804	33:42	33:37	5	1.310	48048	5988	16	40	374		M
327.8775	33:40	33:37	3	1.308	35344	4710	52	130	91	1.36(1.32-1.78)	
PCB-115 (C110)											M
325.8804	33:42	33:37	5	1.310	48048	5988	16	40	374		M
327.8775	33:40	33:37	3	1.308	35344	4710	52	130	91	1.36(1.32-1.78)	
PCB-82											
325.8804	33:57	33:55	1	1.319	17417	3116	16	40	195		
327.8775	33:57	33:55	2	1.320	11526	2309	52	130	44	1.51(1.32-1.78)	
PCB-111											
325.8804	34:21	34:19	2	1.335	25493	4795	16	40	300		
327.8775	34:19	34:19	0	1.334	14701	2930	52	130	56	1.73(1.32-1.78)	
PCB-120											M
325.8804	34:49	34:47	2	1.353	31833	6490	16	40	406		
327.8775	34:48	34:47	1	1.353	21230	4518	52	130	87	1.50(1.32-1.78)	M
PCB-108											M
325.8804	35:56	35:55	1	1.396	69109	12661	149	372	85		M
327.8775	35:56	35:55	1	1.396	45273	9267	167	417	55	1.53(1.32-1.78)	
PCB-124 (C108)											M
325.8804	35:56	35:55	1	1.396	69109	12661	149	372	85		M
327.8775	35:56	35:55	1	1.396	45273	9267	167	417	55	1.53(1.32-1.78)	
PCB-107											
325.8804	36:11	36:09	2	1.406	42100	7332	149	372	49		
327.8775	36:11	36:09	2	1.406	24707	4629	167	417	28	1.70(1.32-1.78)	
PCB-123											
325.8804	36:17	36:16	1	1.000	35275	6618	149	372	44		
327.8775	36:18	36:16	2	1.001	21007	4160	167	417	25	1.68(1.32-1.78)	
PCB-106											
325.8804	36:24	36:23	1	1.004	36546	7274	149	372	49		
327.8775	36:24	36:23	1	1.004	20758	4860	167	417	29	1.76(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118											
325.8804	36:38	36:36	2	1.001	38751	7093	149	372	48		
327.8775	36:38	36:36	2	1.001	26796	4714	167	417	28	1.45(1.32-1.78)	
PCB-122											
325.8804	36:58	36:56	2	1.010	29111	6122	149	372	41		
327.8775	36:59	36:56	2	1.011	20374	3860	167	417	23	1.43(1.32-1.78)	
PCB-114											
325.8804	37:08	37:08	1	1.001	35470	7088	149	372	48		
327.8775	37:08	37:08	0	1.000	20253	4312	167	417	26	1.75(1.32-1.78)	
PCB-105											
325.8804	37:48	37:46	2	1.001	39841	7999	149	372	54		
327.8775	37:46	37:46	0	1.000	25637	4872	167	417	29	1.55(1.32-1.78)	
PCB-127											
325.8804	39:16	39:15	2	1.040	35291	7541	149	372	51		
327.8775	39:15	39:15	1	1.039	22226	4343	167	417	26	1.59(1.32-1.78)	
PCB-126											
325.8804	40:52	40:52	1	1.001	29722	5954	149	372	40		M
327.8775	40:52	40:52	1	1.001	19848	4395	167	417	26	1.50(1.32-1.78)	M
PCB-155L											
371.8817	31:24	31:23	1	0.791	3521584	727127	112	280	6492		
373.8788	31:24	31:23	1	0.791	2785737	570559	68	170	8391	1.26(1.05-1.43)	
PCB-138L											
371.8817	39:43	39:41	2		4003503	758289	3018	7545	251		
373.8788	39:43	39:41	2		3040710	578967	1932	4830	300	1.32(1.05-1.43)	
PCB-159L											
371.8817	41:57	41:56	1	0.982	4449727	849985	3018	7545	282		a
373.8788	41:57	41:56	1	0.982	3485772	651633	1932	4830	337	1.28(0.00-0.00)	a
PCB-167L											
371.8817	42:43	42:42	1	1.076	5120342	952633	3018	7545	316		
373.8788	42:43	42:42	1	1.076	3984974	746682	1932	4830	386	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:52	43:51	2	1.105	9663977	1300347	3018	7545	431		
373.8788	43:52	43:51	2	1.105	7481334	1015992	1932	4830	526	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:52	43:51	2	1.105	9663977	1300347	3018	7545	431		
373.8788	43:52	43:51	2	1.105	7481334	1015992	1932	4830	526	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:06	47:05	1	1.186	5098359	941799	3018	7545	312		
373.8788	47:06	47:05	1	1.186	4083031	738055	1932	4830	382	1.25(1.05-1.43)	
PCB-155											
359.8415	31:25	31:25	1	1.001	16517	4067	26	65	156		
361.8385	31:25	31:25	1	1.001	11523	2696	1	2	2696	1.43(1.05-1.43)	
PCB-152											
359.8415	31:35	31:36	0	1.006	17736	3113	26	65	120		
361.8385	31:38	31:36	2	1.007	13322	2954	1	2	2954	1.33(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-150											
359.8415	31:47	31:46	1	1.012	17358	3610	26	65	139		
361.8385	31:47	31:46	1	1.012	13013	2675	1	2	2675	1.33(1.05-1.43)	
PCB-136											
359.8415	32:08	32:08	1	1.024	17205	3629	26	65	140		
361.8385	32:10	32:08	2	1.024	16182	3602	1	2	3602	1.06(1.05-1.43)	
PCB-145											
359.8415	32:27	32:25	1	1.033	17590	4701	26	65	181		
361.8385	32:25	32:25	0	1.033	13836	2630	1	2	2630	1.27(1.05-1.43)	
PCB-148											
359.8415	33:58	33:57	1	1.082	13361	2678	26	65	103		
361.8385	33:59	33:57	2	1.082	10752	2090	1	2	2090	1.24(1.05-1.43)	
PCB-135											
359.8415	34:34	34:32	1	1.101	26170	3099	26	65	119		M
361.8385	34:32	34:32	0	1.100	19780	2783	1	2	2783	1.32(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:34	34:32	1	1.101	26170	3099	26	65	119		M
361.8385	34:32	34:32	0	1.100	19780	2783	1	2	2783	1.32(1.05-1.43)	M
PCB-154											
359.8415	34:47	34:47	0	1.108	11960	2487	26	65	96		M
361.8385	34:48	34:47	1	1.108	11412	2453	1	2	2453	1.05(1.05-1.43)	M
PCB-144											
359.8415	35:08	35:06	2	1.119	14483	2593	26	65	100		M
361.8385	35:07	35:06	1	1.119	11553	2534	1	2	2534	1.25(1.05-1.43)	M
PCB-147											
359.8415	35:29	35:27	2	1.130	50375	10028	75	187	134		M
361.8385	35:29	35:27	2	1.130	35175	7097	87	217	82	1.43(1.05-1.43)	M
PCB-149 (C147)											
359.8415	35:29	35:27	2	1.130	50375	10028	75	187	134		M
361.8385	35:29	35:27	2	1.130	35175	7097	87	217	82	1.43(1.05-1.43)	M
PCB-134											
359.8415	35:47	35:45	2	1.140	42616	4557	75	187	61		
361.8385	35:48	35:45	2	1.140	30574	3569	87	217	41	1.39(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:47	35:45	2	1.140	42616	4557	75	187	61		
361.8385	35:48	35:45	2	1.140	30574	3569	87	217	41	1.39(1.05-1.43)	
PCB-139											
359.8415	36:04	36:04	0	1.148	43246	7993	75	187	107		
361.8385	36:04	36:04	0	1.148	33799	6612	87	217	76	1.28(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:04	36:04	0	1.148	43246	7993	75	187	107		
361.8385	36:04	36:04	0	1.148	33799	6612	87	217	76	1.28(1.05-1.43)	
PCB-131											
359.8415	36:17	36:15	2	1.156	24575	4053	75	187	54		M
361.8385	36:15	36:15	0	1.155	17935	3791	87	217	44	1.37(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	ℓ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-142											M
359.8415	36:25	36:24	1	1.160	17385	3678	75	187	49		M
361.8385	36:26	36:24	2	1.160	14076	2525	87	217	29	1.24(1.05-1.43)	
PCB-132											
359.8415	36:44	36:43	1	1.170	21243	3616	75	187	48		
361.8385	36:44	36:43	1	1.170	15355	3115	87	217	36	1.38(1.05-1.43)	
PCB-133											
359.8415	37:15	37:14	1	1.186	17759	3518	75	187	47		
361.8385	37:15	37:14	1	1.186	14618	3267	87	217	38	1.21(1.05-1.43)	
PCB-165											
359.8415	37:38	37:37	2	0.881	22369	4212	75	187	56		
361.8385	37:37	37:37	0	0.880	19882	4015	87	217	46	1.13(1.05-1.43)	
PCB-146											
359.8415	37:53	37:52	1	0.887	23392	4679	75	187	62		
361.8385	37:53	37:52	1	0.887	18644	3732	87	217	43	1.25(1.05-1.43)	
PCB-161											
359.8415	38:01	38:00	2	0.890	24500	4544	75	187	61		
361.8385	38:01	38:00	2	0.890	22446	4887	87	217	56	1.09(1.05-1.43)	
PCB-153											
359.8415	38:32	38:30	2	0.902	53478	7444	75	187	99		
361.8385	38:32	38:30	2	0.902	39603	6435	87	217	74	1.35(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:32	38:30	2	0.902	53478	7444	75	187	99		
361.8385	38:32	38:30	2	0.902	39603	6435	87	217	74	1.35(1.05-1.43)	
PCB-141											RQ
359.8415	38:41	38:41	1	0.906	25703	4580	75	187	61		
	Empc Correction				19791	4855	75	187	65		
361.8385	38:42	38:41	2	0.906	15961	3916	87	217	45	1.61(1.05-1.43)	
PCB-130											
359.8415	39:06	39:05	1	0.915	17051	3420	75	187	46		
361.8385	39:07	39:05	2	0.916	15095	3034	87	217	35	1.13(1.05-1.43)	
PCB-137											
359.8415	39:19	39:18	1	0.920	18700	3812	75	187	51		
361.8385	39:19	39:18	1	0.920	14482	4356	87	217	50	1.29(1.05-1.43)	
PCB-164											RQ
359.8415	39:26	39:26	0	0.923	21953	4659	75	187	62		
361.8385	39:27	39:26	2	0.924	24511	3765	87	217	43	0.90(1.05-1.43)	
	Empc Correction				17704	3757	87	217	43		
PCB-129											M
359.8415	39:45	39:44	1	0.930	91627	10000	75	187	133		M
361.8385	39:45	39:44	2	0.931	73127	8013	87	217	92	1.25(1.05-1.43)	M
PCB-138 (C129)											M
359.8415	39:45	39:44	1	0.930	91627	10000	75	187	133		M
361.8385	39:45	39:44	2	0.931	73127	8013	87	217	92	1.25(1.05-1.43)	M
PCB-160 (C129)											M
359.8415	39:45	39:44	1	0.930	91627	10000	75	187	133		M
361.8385	39:45	39:44	2	0.931	73127	8013	87	217	92	1.25(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-163 (C129)											M
359.8415	39:45	39:44	1	0.930	91627	10000	75	187	133		M
361.8385	39:45	39:44	2	0.931	73127	8013	87	217	92	1.25(1.05-1.43)	M
PCB-158											M
359.8415	40:08	40:07	2	0.940	34022	6214	75	187	83		M
361.8385	40:07	40:07	1	0.939	26269	5353	87	217	62	1.30(1.05-1.43)	M
PCB-128											M
359.8415	40:58	40:57	1	0.959	44274	6389	75	187	85		M
361.8385	40:59	40:57	2	0.959	39628	5757	87	217	66	1.12(1.05-1.43)	
PCB-166 (C128)											M
359.8415	40:58	40:57	1	0.959	44274	6389	75	187	85		M
361.8385	40:59	40:57	2	0.959	39628	5757	87	217	66	1.12(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.982	30925	5908	75	187	79		
361.8385	42:00	41:58	2	0.983	27456	5565	87	217	64	1.13(1.05-1.43)	
PCB-162											M
359.8415	42:15	42:15	0	0.989	30600	5223	75	187	70		
361.8385	42:15	42:15	0	0.989	24701	4629	87	217	53	1.24(1.05-1.43)	M
PCB-167											M
359.8415	42:45	42:44	1	1.001	28743	5226	75	187	70		
361.8385	42:46	42:44	2	1.001	22483	3790	87	217	44	1.28(1.05-1.43)	M
PCB-156											
359.8415	43:55	43:53	2	1.001	49993	6570	75	187	88		
361.8385	43:54	43:53	1	1.001	38458	5239	87	217	60	1.30(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:55	43:53	2	1.001	49993	6570	75	187	88		
361.8385	43:54	43:53	1	1.001	38458	5239	87	217	60	1.30(1.05-1.43)	
PCB-169											M
359.8415	47:07	47:06	1	1.001	28472	4838	75	187	65		
361.8385	47:08	47:06	2	1.001	26435	4107	87	217	47	1.08(1.05-1.43)	M
PCB-188L											
405.8428	37:08	37:07	1	0.820	3650355	708318	219	547	3234		
407.8398	37:08	37:07	1	0.820	3465727	671924	40	100	16798	1.05(0.89-1.21)	
PCB-180L											
405.8428	45:16	45:15	1		2921128	536267	219	547	2449		
407.8398	45:16	45:15	1		2651981	491396	40	100	12285	1.10(0.89-1.21)	
PCB-170L											
405.8428	46:31	46:30	1	1.028	2449728	456817	219	547	2086		
407.8398	46:31	46:30	1	1.028	2314780	432860	40	100	10822	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:37	49:37	0	1.096	5793890	1055058	714	1785	1478		
407.8398	49:37	49:37	0	1.096	5535408	1012487	859	2147	1179	1.05(0.89-1.21)	
PCB-188											
393.8025	37:09	37:08	1	1.001	20249	4207	4	10	1052		
395.7995	37:09	37:08	1	1.001	19444	3592	2	5	1796	1.04(0.89-1.21)	

	Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags	
	PCB-179												
	393.8025	37:30	37:28	2	1.010	22112	4623	4	10	1156			
	395.7995	37:30	37:28	2	1.010	24665	4621	2	5	2311	0.90(0.89-1.21)		
	PCB-184												
	393.8025	38:01	38:00	2	1.024	20060	3448	4	10	862			
	395.7995	38:01	38:00	2	1.024	18074	3546	2	5	1773	1.11(0.89-1.21)		
	PCB-176												
	393.8025	38:21	38:21	0	1.033	19432	4183	4	10	1046			
	395.7995	38:21	38:21	0	1.033	21152	3716	2	5	1858	0.92(0.89-1.21)		
	PCB-186												
	393.8025	38:49	38:48	2	1.046	24006	4770	4	10	1193			
	395.7995	38:49	38:48	2	1.046	20726	3450	2	5	1725	1.16(0.89-1.21)		
	PCB-178												
	393.8025	40:12	40:11	1	1.083	13403	2484	4	10	621			
	395.7995	40:12	40:11	1	1.083	11881	2655	2	5	1328	1.13(0.89-1.21)		
	PCB-175												
	393.8025	40:49	40:49	0	1.100	16575	3528	4	10	882			
	395.7995	40:50	40:49	1	1.100	14370	2591	2	5	1296	1.15(0.89-1.21)		
	PCB-187												
	393.8025	41:07	41:05	2	1.107	17180	3179	4	10	795		RQ	
		Empc Correction				14565	2642	4	10	661			
	395.7995	41:05	41:05	0	1.107	13872	2517	2	5	1259	1.24(0.89-1.21)		
	PCB-182												
	393.8025	41:18	41:18	1	1.113	11841	2710	4	10	678			
	395.7995	41:17	41:18	-1	1.112	12803	2552	2	5	1276	0.92(0.89-1.21)		
	PCB-183												
	393.8025	41:44	41:42	2	1.124	31376	3239	4	10	810			
	395.7995	41:43	41:42	1	1.124	32918	3985	2	5	1993	0.95(0.89-1.21)		
	PCB-185 (C183)												
	393.8025	41:44	41:42	2	1.124	31376	3239	4	10	810			
	395.7995	41:43	41:42	1	1.124	32918	3985	2	5	1993	0.95(0.89-1.21)		
	PCB-174												
	393.8025	41:58	41:56	2	1.130	16111	4046	4	10	1012			
	395.7995	41:57	41:56	1	1.130	14099	2820	2	5	1410	1.14(0.89-1.21)		
	PCB-177												
	393.8025	42:23	42:22	1	1.142	17793	3564	4	10	891		RQM M	
		Empc Correction				12716	2714	4	10	679			
	395.7995	42:24	42:22	2	1.142	12111	2585	2	5	1293	1.47(0.89-1.21)		
	PCB-181												
	393.8025	42:47	42:45	2	1.152	13126	3219	4	10	805		RQ	
	395.7995	42:46	42:45	1	1.152	15511	2800	2	5	1400	0.85(0.89-1.21)		
		Empc Correction				12500	3065	2	5	1533			
	PCB-171												
	393.8025	43:00	42:59	2	1.158	30123	4934	4	10	1234			
	395.7995	43:00	42:59	2	1.158	30336	5756	2	5	2878	0.99(0.89-1.21)		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-173 (C171)											
393.8025	43:00	42:59	2	1.158	30123	4934	4	10	1234		
395.7995	43:00	42:59	2	1.158	30336	5756	2	5	2878	0.99(0.89-1.21)	
PCB-172											
393.8025	44:39	44:37	2	0.900	14459	2787	4	10	697		
395.7995	44:39	44:37	2	0.900	11971	2571	2	5	1286	1.21(0.89-1.21)	
PCB-192											
393.8025	44:56	44:54	2	0.905	19802	3210	4	10	803		
395.7995	44:55	44:54	1	0.905	17222	3463	2	5	1732	1.15(0.89-1.21)	
PCB-180											
393.8025	45:15	45:14	1	0.912	33349	4838	4	10	1210		
395.7995	45:16	45:14	2	0.912	33586	5087	2	5	2544	0.99(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:15	45:14	1	0.912	33349	4838	4	10	1210		
395.7995	45:16	45:14	2	0.912	33586	5087	2	5	2544	0.99(0.89-1.21)	
PCB-191											
393.8025	45:38	45:37	1	0.920	18364	3624	4	10	906		
395.7995	45:38	45:37	1	0.920	16859	3801	2	5	1901	1.09(0.89-1.21)	
PCB-170											
393.8025	46:33	46:32	2	0.938	13192	2794	4	10	699		RQ
395.7995	46:33	46:32	2	0.938	15830	3001	2	5	1501	0.83(0.89-1.21)	
Empc Correction					12563	2660	2	5	1330		
PCB-190											
393.8025	47:03	47:02	1	0.948	19619	4177	4	10	1044		
395.7995	47:03	47:02	1	0.948	20498	4227	2	5	2114	0.96(0.89-1.21)	
PCB-189											
393.8025	49:37	49:38	-1	1.000	27187	4572	124	310	37		
395.7995	49:39	49:38	2	1.001	25907	5464	92	230	59	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:30	42:28	2	0.821	2670571	516634	59	147	8757		
441.8008	42:30	42:28	2	0.821	2951873	552631	47	117	11758	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:44	51:43	1		3781894	694777	234	585	2969		
441.8008	51:44	51:43	1		4167602	757674	228	570	3323	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:12	52:11	1	1.009	4394997	786634	234	585	3362		
441.8008	52:12	52:11	1	1.009	4864088	881228	228	570	3865	0.90(0.76-1.02)	
PCB-202											
427.7635	42:32	42:29	3	1.001	12689	2872	1	2	2872		
429.7606	42:30	42:29	0	1.000	13025	2499	18	45	139	0.97(0.76-1.02)	
PCB-201											
427.7635	43:25	43:25	0	1.022	13053	2640	1	2	2640		
429.7606	43:26	43:25	1	1.022	13011	2660	18	45	148	1.00(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.037	14203	2586	1	2	2586		
429.7606	44:05	44:05	0	1.037	15736	2883	18	45	160	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-197											RQM
427.7635	44:22	44:19	3	1.044	17650	3512	1	2	3512		M
	Empc Correction				15039	2940	1	2	2940		
429.7606	44:19	44:19	0	1.043	16898	3304	18	45	184	1.04(0.76-1.02)	
PCB-200											
427.7635	44:26	44:25	1	1.046	12112	2573	1	2	2573		
429.7606	44:26	44:25	0	1.046	13829	2614	18	45	145	0.88(0.76-1.02)	
PCB-198											
427.7635	47:14	47:12	2	1.111	21674	3445	1	2	3445		
429.7606	47:13	47:12	1	1.111	27910	3806	18	45	211	0.78(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:14	47:12	2	1.111	21674	3445	1	2	3445		
429.7606	47:13	47:12	1	1.111	27910	3806	18	45	211	0.78(0.76-1.02)	
PCB-196											M
427.7635	47:56	47:53	3	0.918	9747	1853	1	2	1853		M
429.7606	47:53	47:53	0	0.917	12025	2532	18	45	141	0.81(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	0	0.921	12983	3083	1	2	3083		
429.7606	48:05	48:05	0	0.921	13603	2751	18	45	153	0.95(0.76-1.02)	
PCB-195											RQM
427.7635	49:23	49:23	0	0.946	17759	3222	73	182	44		M
	Empc Correction				14702	2966	73	182	41		
429.7606	49:25	49:23	2	0.947	16520	3333	96	240	35	1.08(0.76-1.02)	
PCB-194											M
427.7635	51:47	51:44	2	0.992	20698	4082	73	182	56		M
429.7606	51:45	51:44	1	0.991	27122	5186	96	240	54	0.76(0.76-1.02)	
PCB-205											M
427.7635	52:13	52:13	0	1.000	25496	6107	73	182	84		M
429.7606	52:13	52:13	0	1.000	25067	5094	96	240	53	1.02(0.76-1.02)	
PCB-208L											
473.7648	49:09	49:09	0	0.950	3304483	605650	3787	9467	160		
475.7619	49:10	49:09	1	0.950	4196425	757108	742	1855	1020	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:57	53:57	1	1.043	2449860	441403	3787	9467	117		
475.7619	53:57	53:57	1	1.043	3049867	551350	742	1855	743	0.80(0.65-0.89)	
PCB-208											M
461.7246	49:12	49:10	2	1.001	18598	3641	191	477	19		M
463.7216	49:11	49:10	1	1.001	22997	4511	302	755	15	0.81(0.65-0.89)	M
PCB-207											M
461.7246	50:06	50:05	0	1.019	21467	4257	191	477	22		M
463.7216	50:06	50:05	0	1.019	28459	5426	302	755	18	0.75(0.65-0.89)	M
PCB-206											M
461.7246	53:59	53:58	1	1.000	17294	2978	191	477	16		M
463.7216	53:58	53:58	0	1.000	26155	5006	302	755	17	0.66(0.65-0.89)	M
PCB-209L											
507.7258	55:35	55:34	1	1.074	2215759	386177	140	350	2758		
509.7229	55:35	55:34	1	1.074	3063219	521635	68	170	7671	0.72(0.59-0.79)	

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
--------	--------------	------------------	------	-----------	------	--------	--------------	---------------	-----	---------------	-------

DCB Decachlorobiphenyl

495.6856	55:38	55:36	2	1.001	11820	2518	18	45	140		
497.6826	55:36	55:36	0	1.000	17152	2969	35	87	85	0.69(0.59-0.79)	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L0.51668P_00011

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

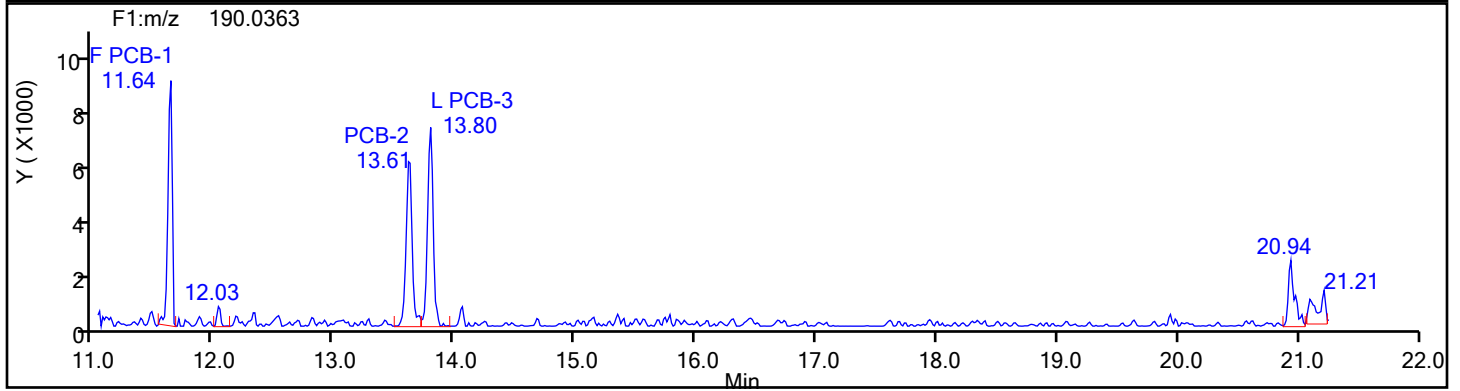
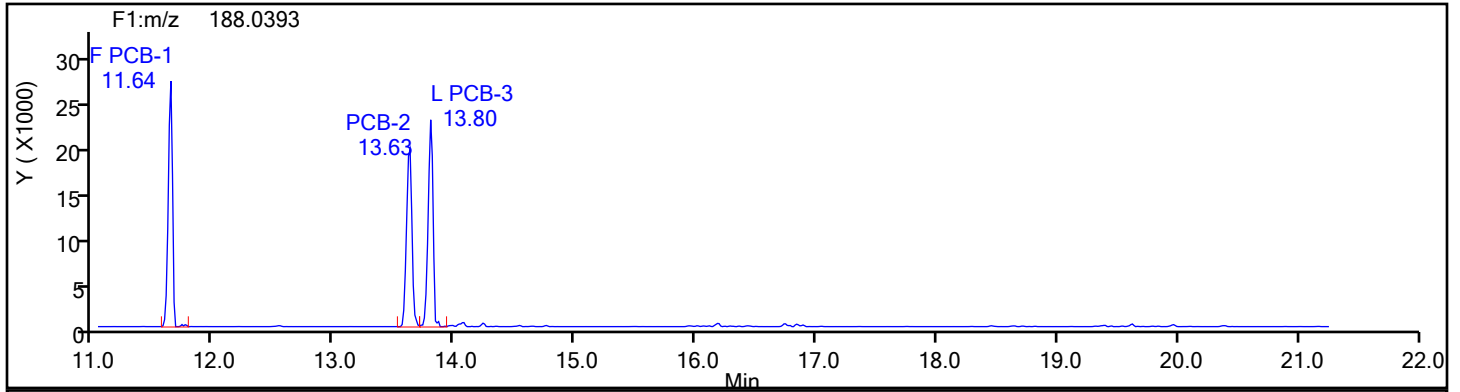
Worklist#: 87130

Sample Line#: 1

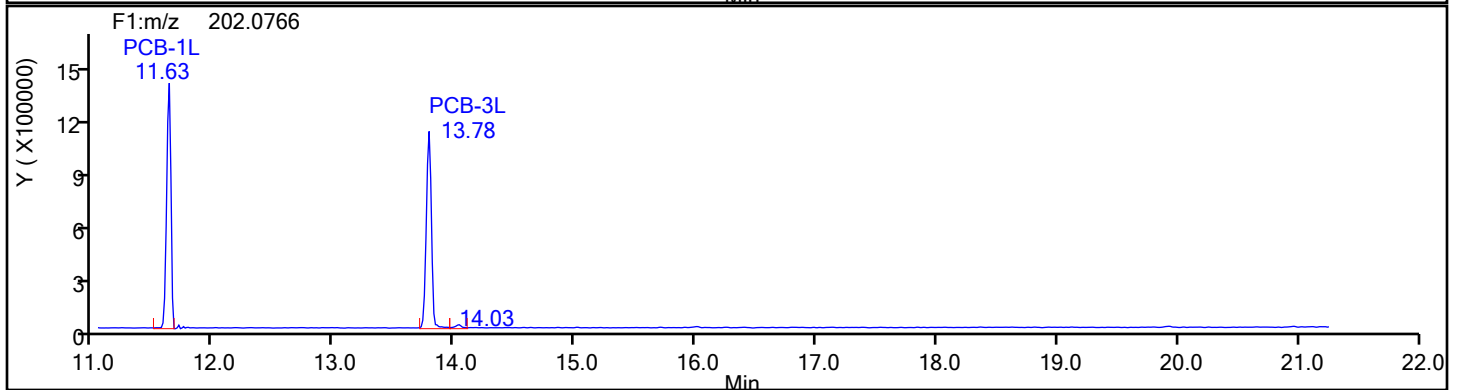
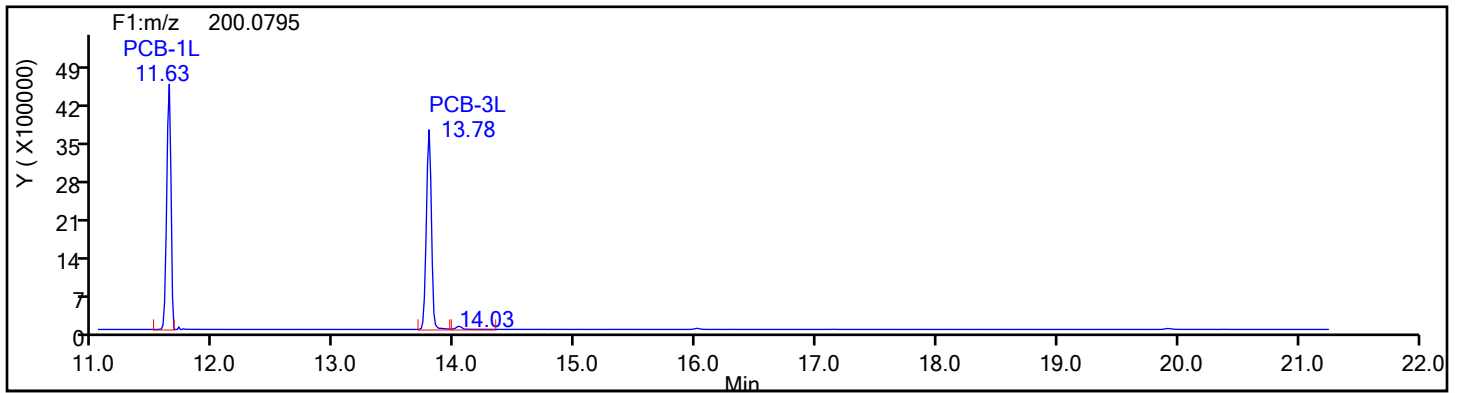
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

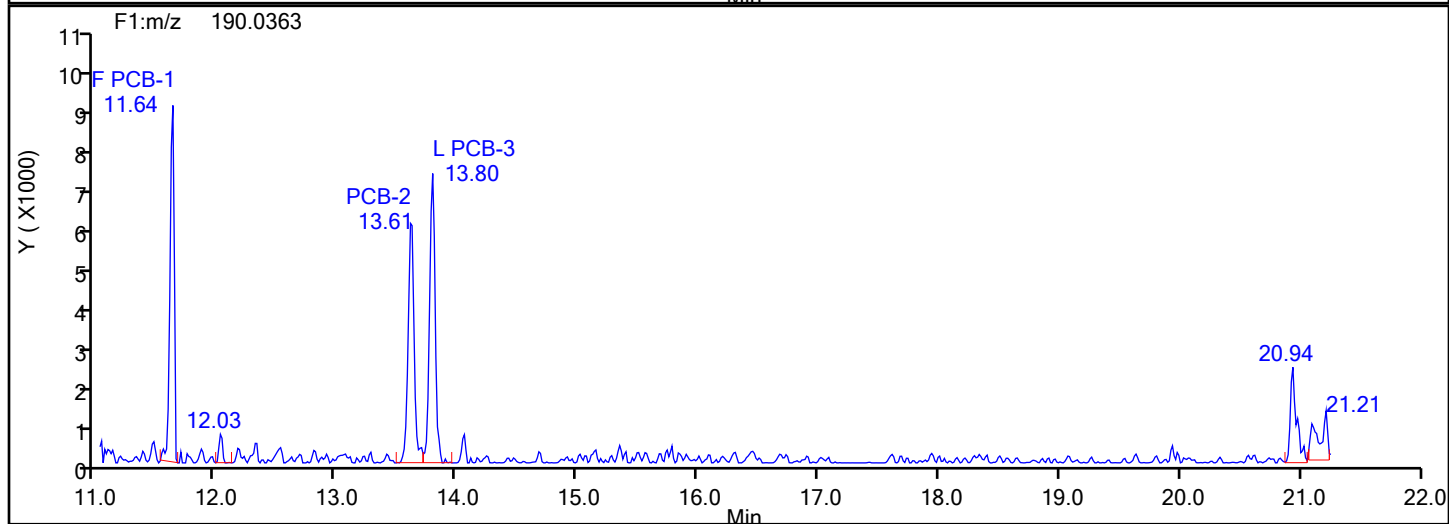
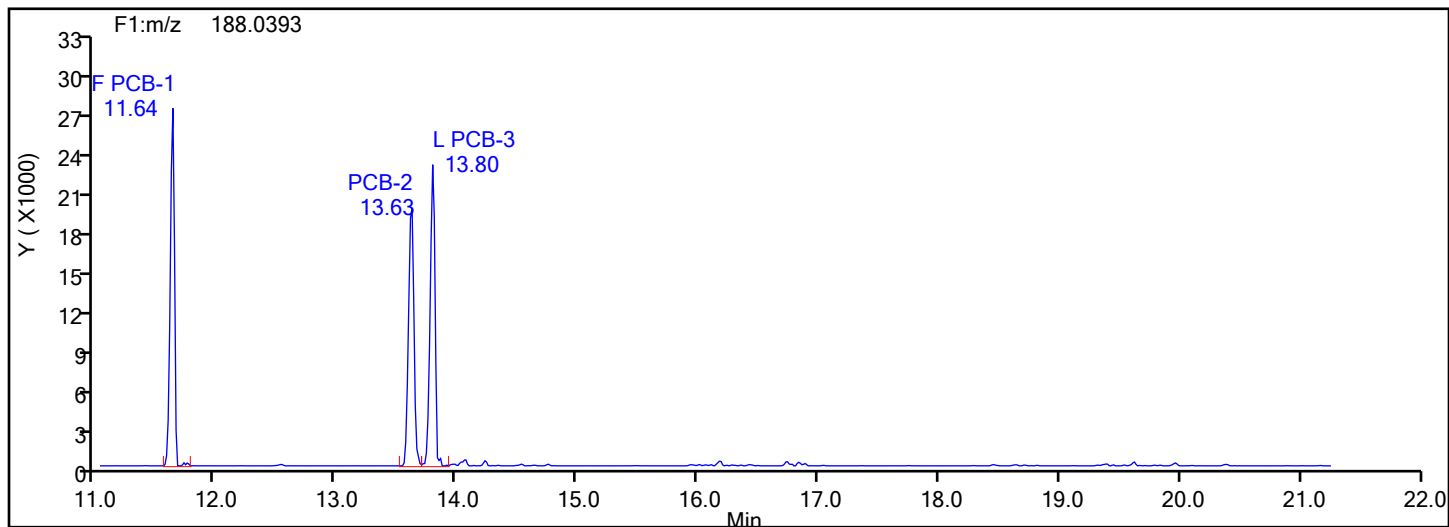
Worklist#: 87130

Sample Line#: 1

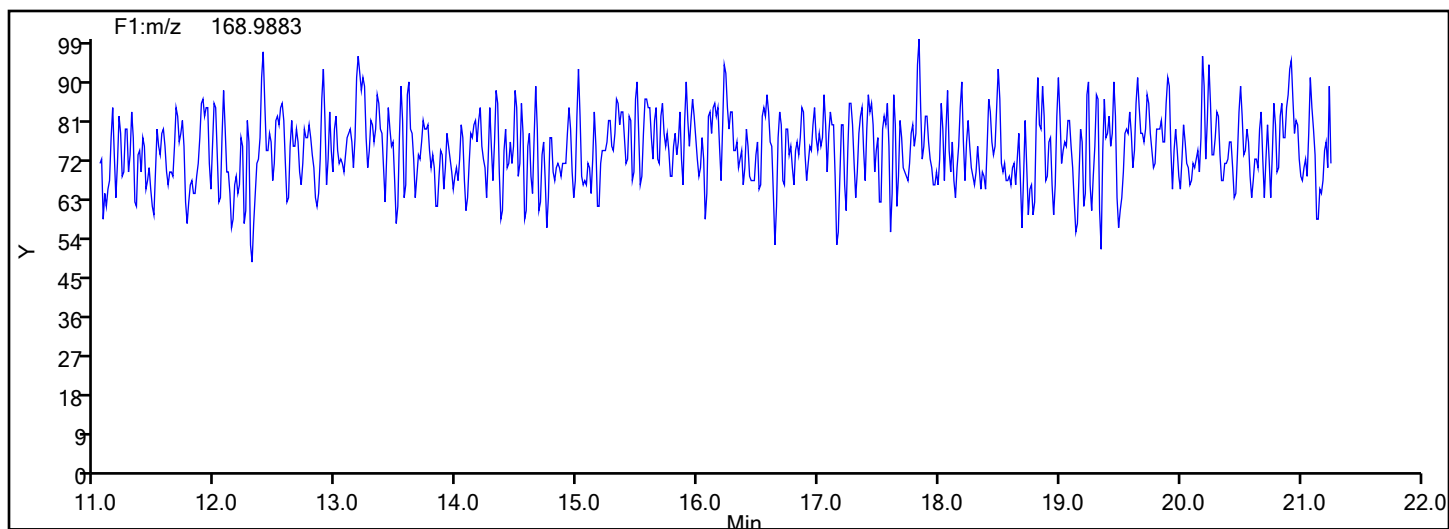
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

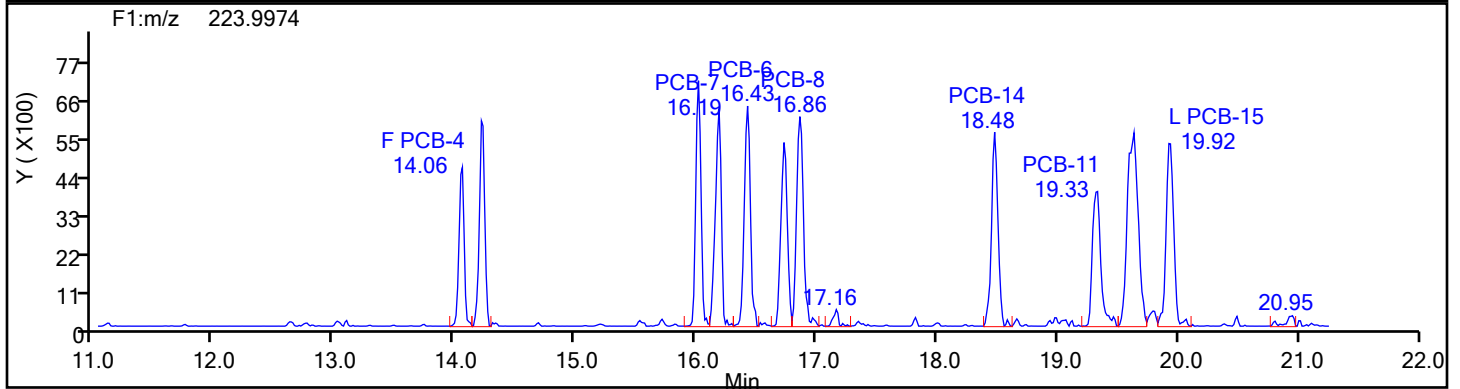
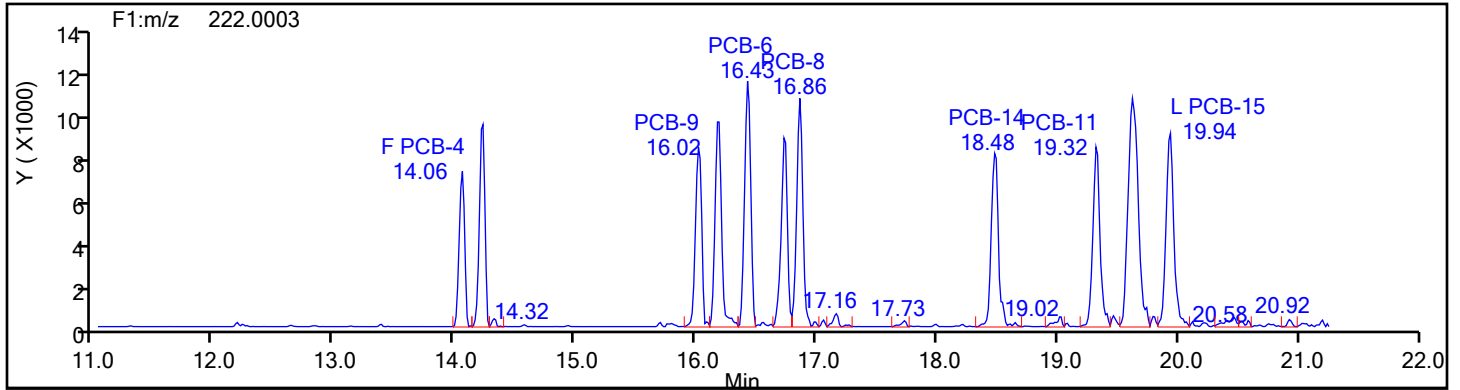
Worklist#: 87130

Sample Line#: 1

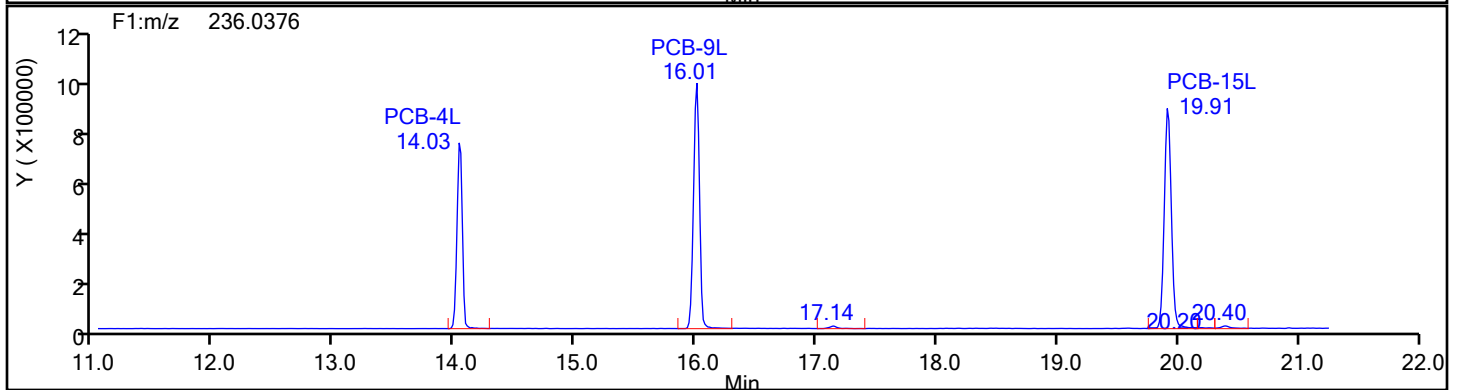
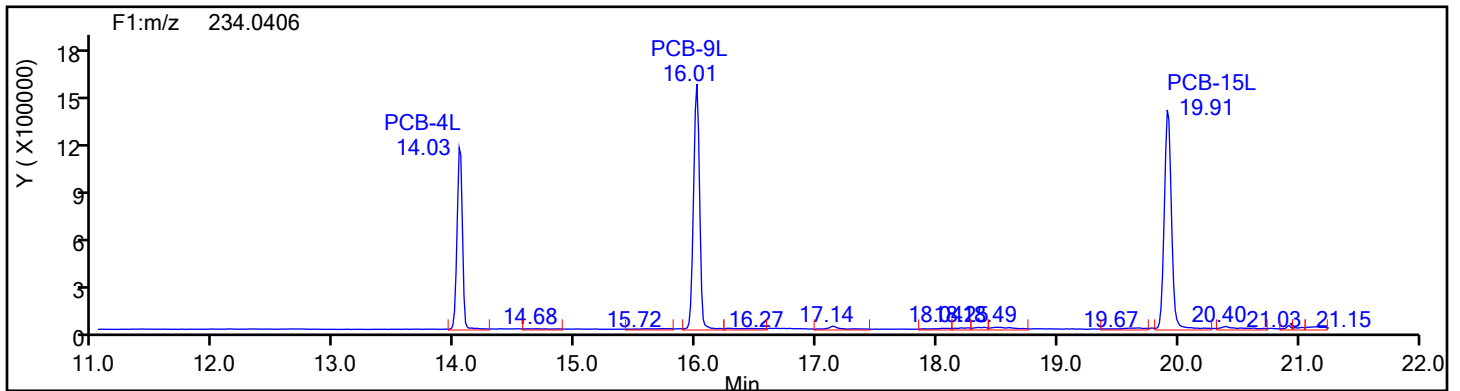
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

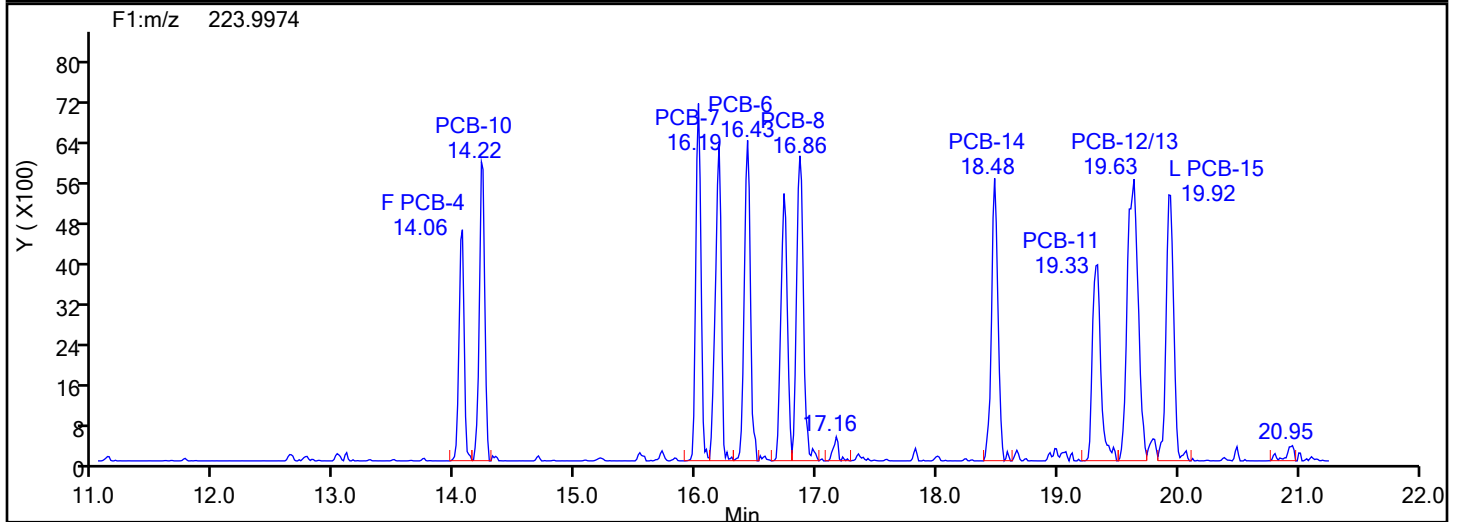
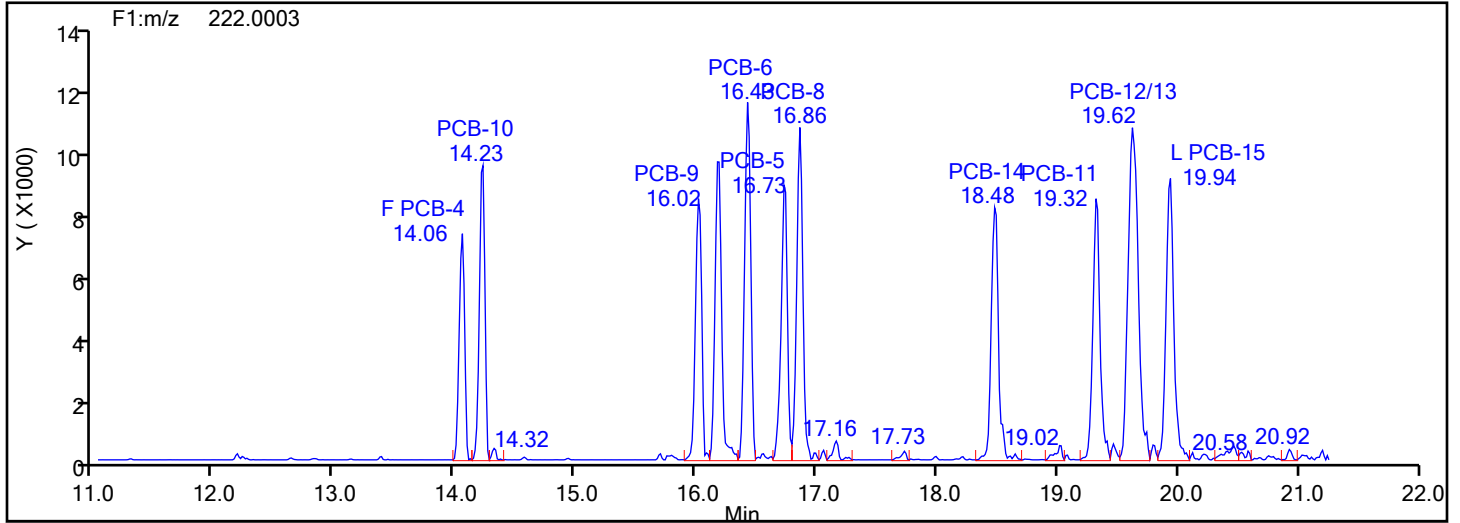
Worklist#: 87130

Sample Line#: 1

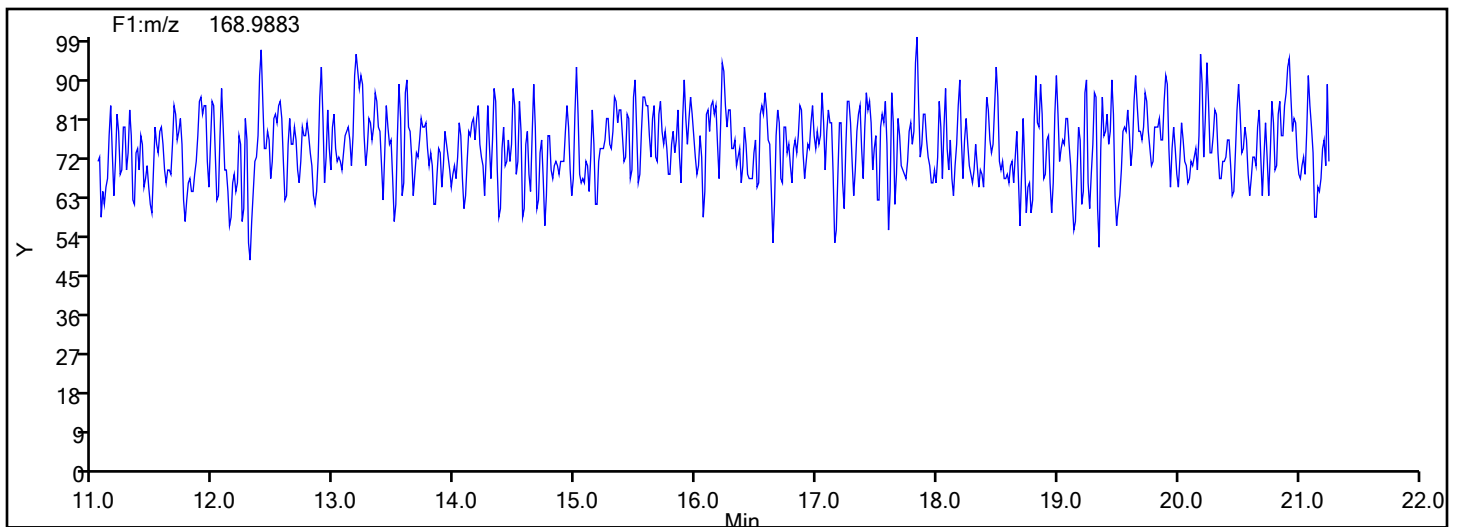
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

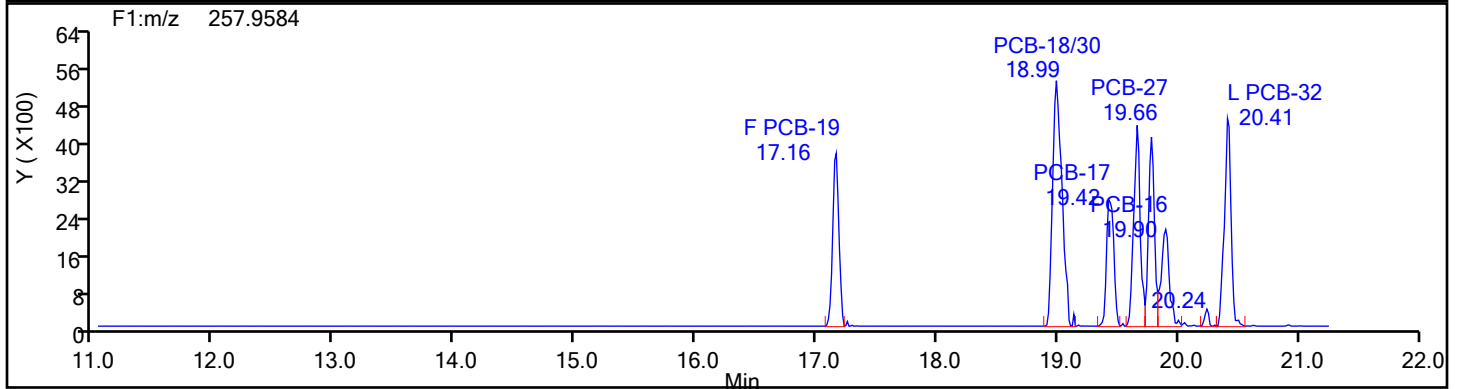
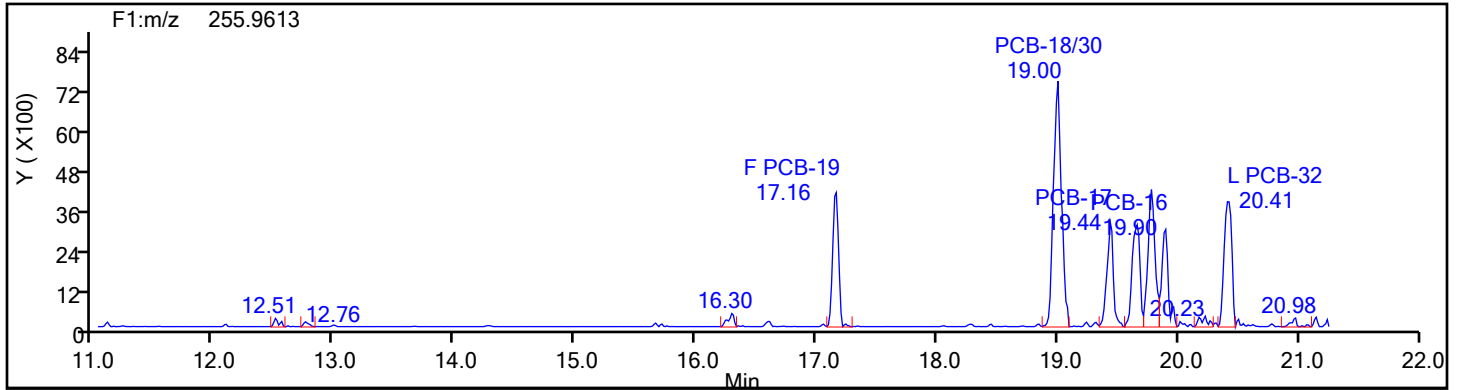
Worklist#: 87130

Sample Line#: 1

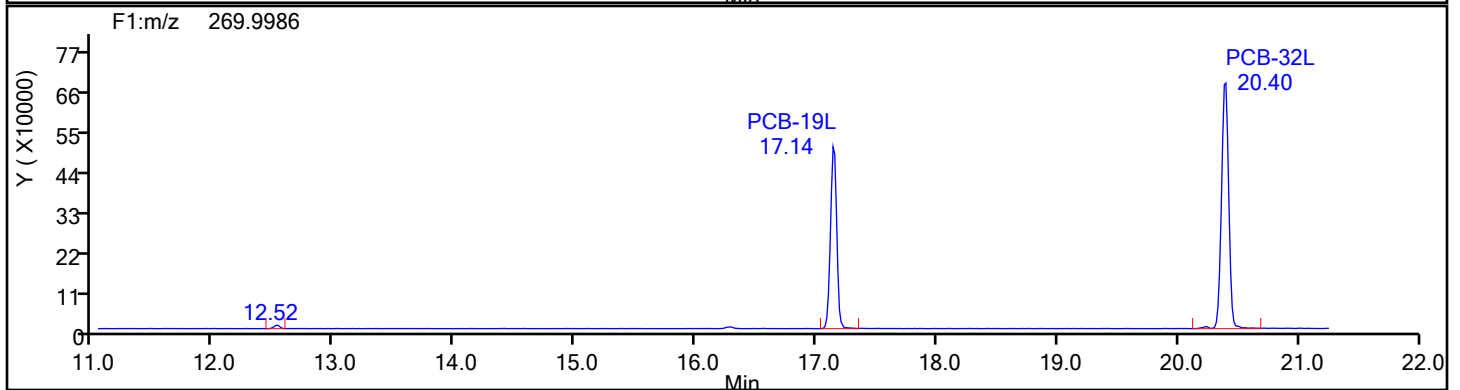
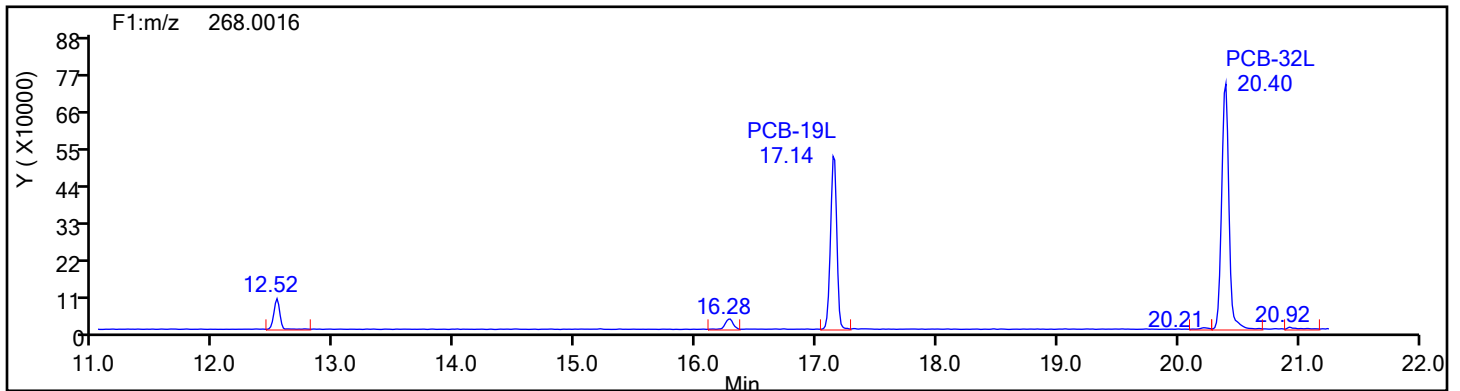
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



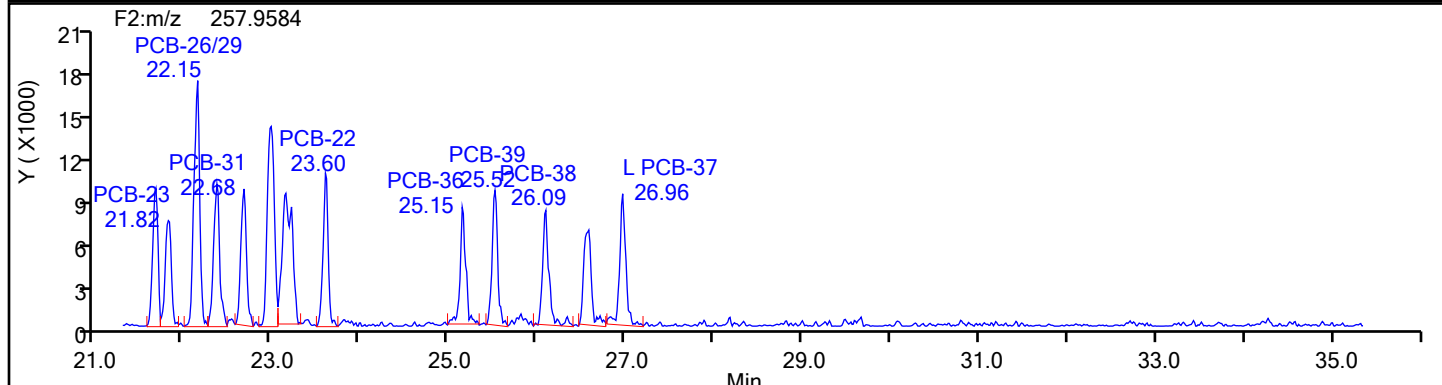
TriPCB F1 Standards



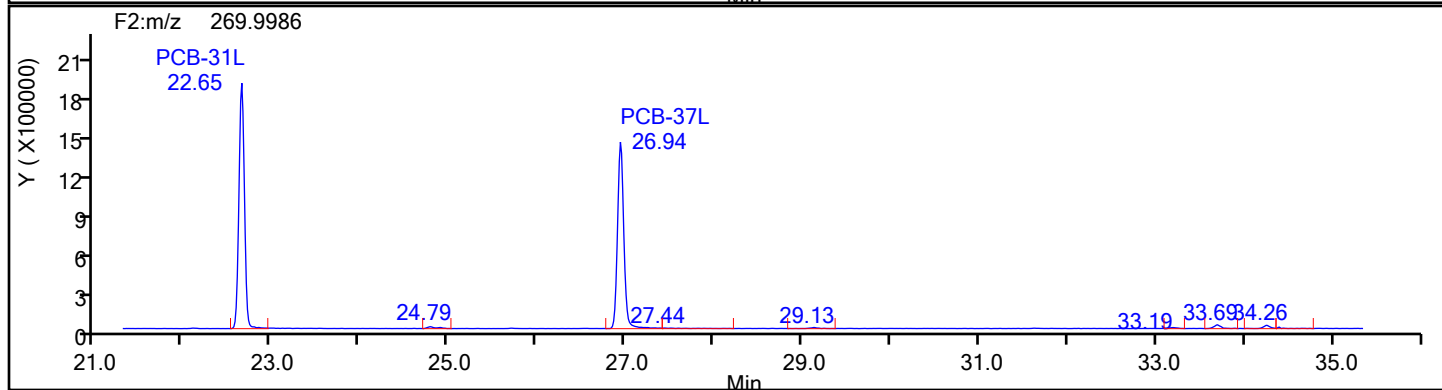
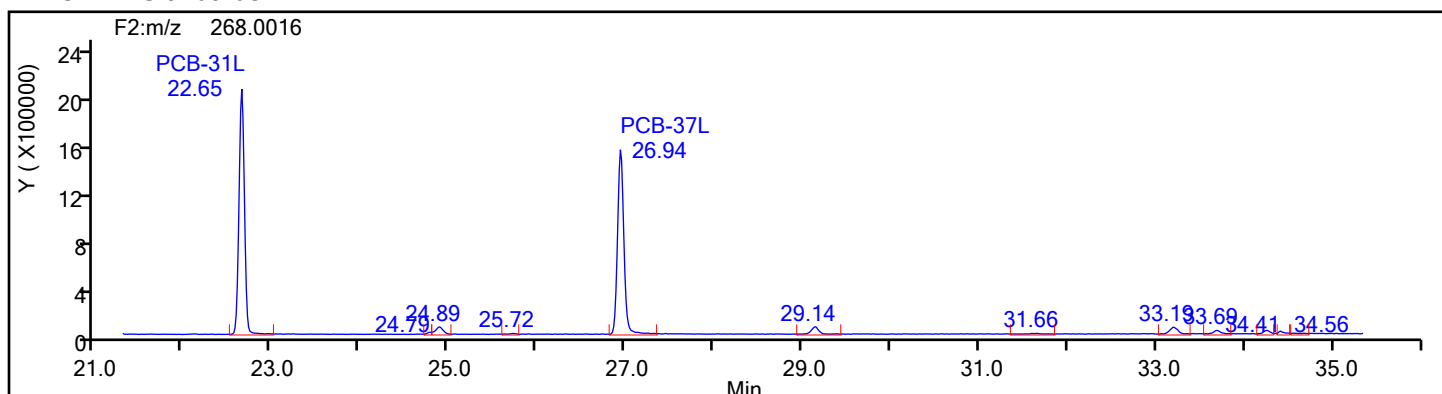
Column Dia: 0.25 mm

Column Dia: 0.25 mm

Column Dia: 0.25 mm



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

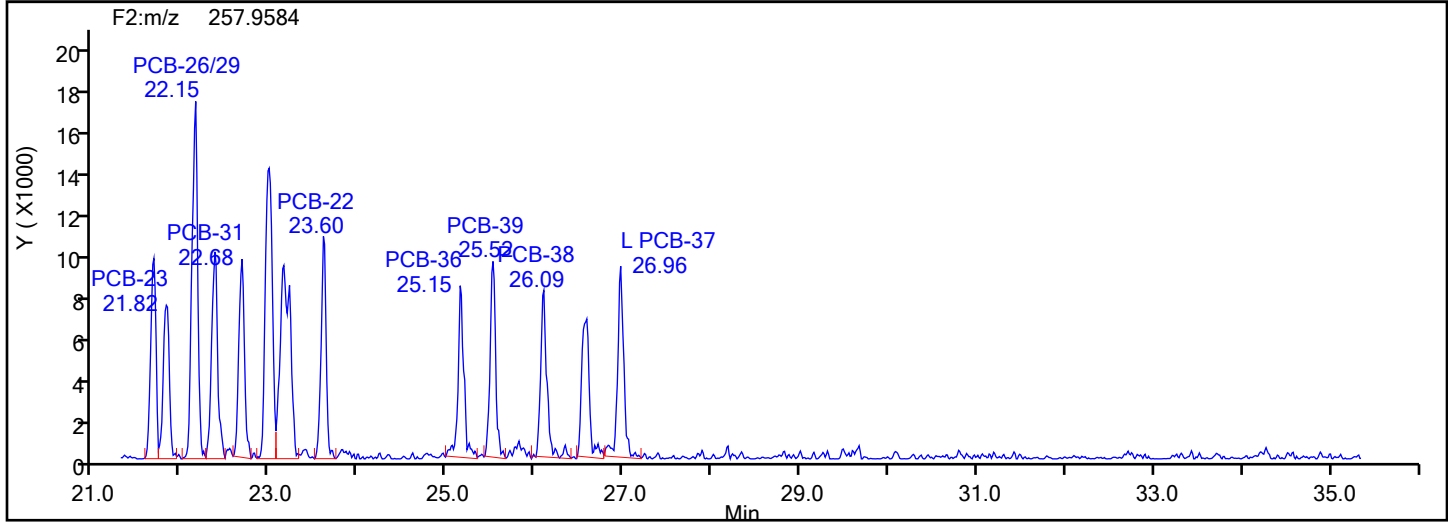
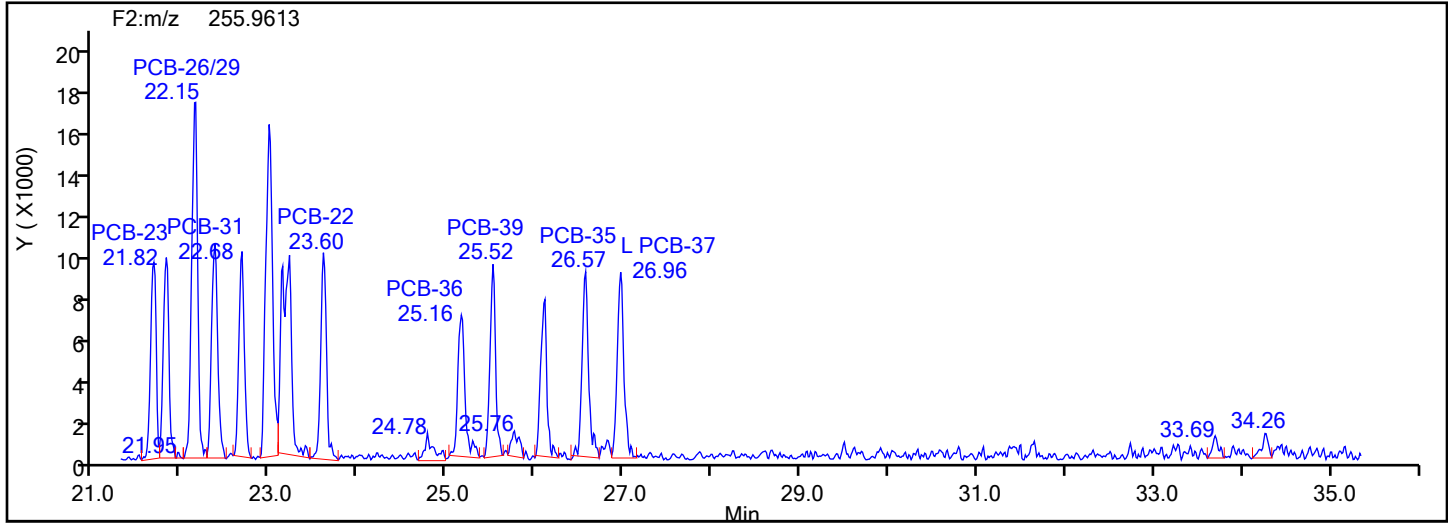
Worklist#: 87130

Sample Line#: 1

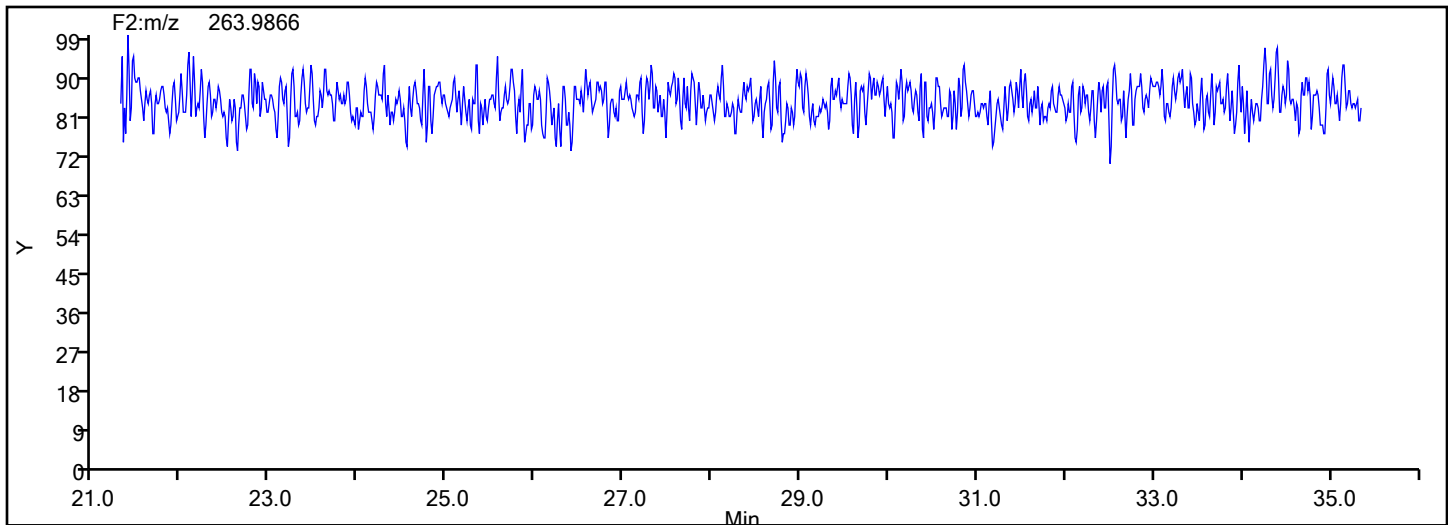
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

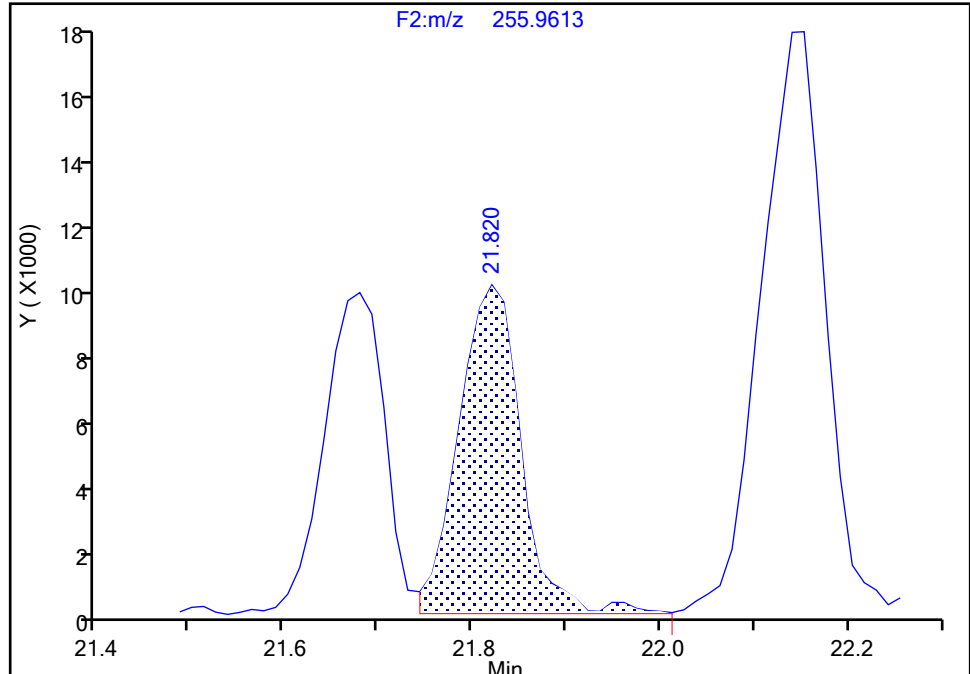
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-23, CAS: 55720-44-0

Signal: 1

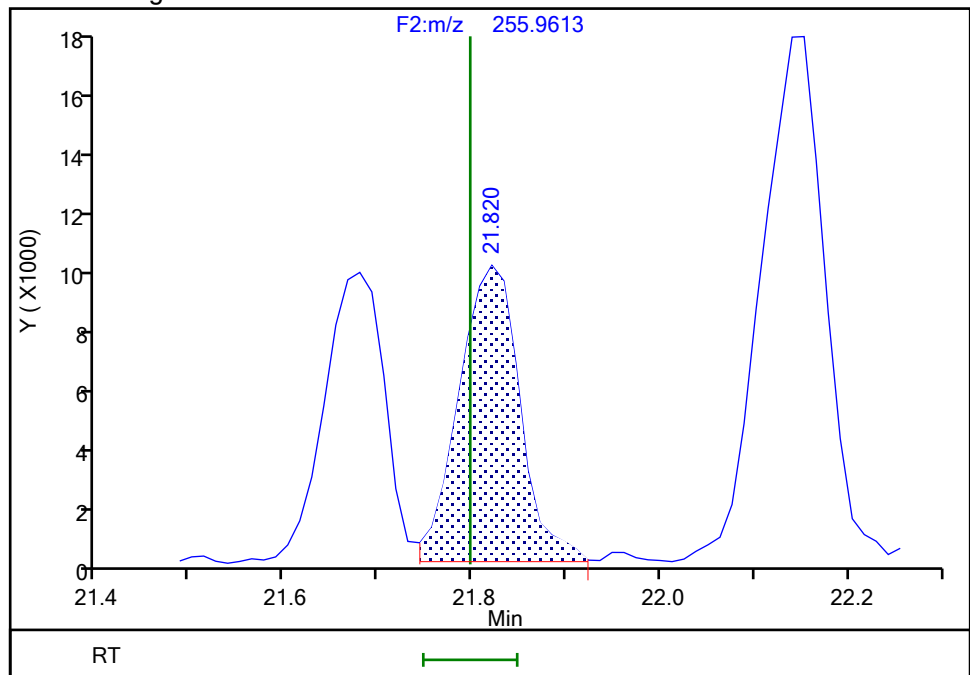
RT: 21.82
Area: 43858
Amount: 0.502763
Amount Units: pg/ul

Processing Integration Results



RT: 21.82
Area: 43162
Amount: 0.501518
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:26:53 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

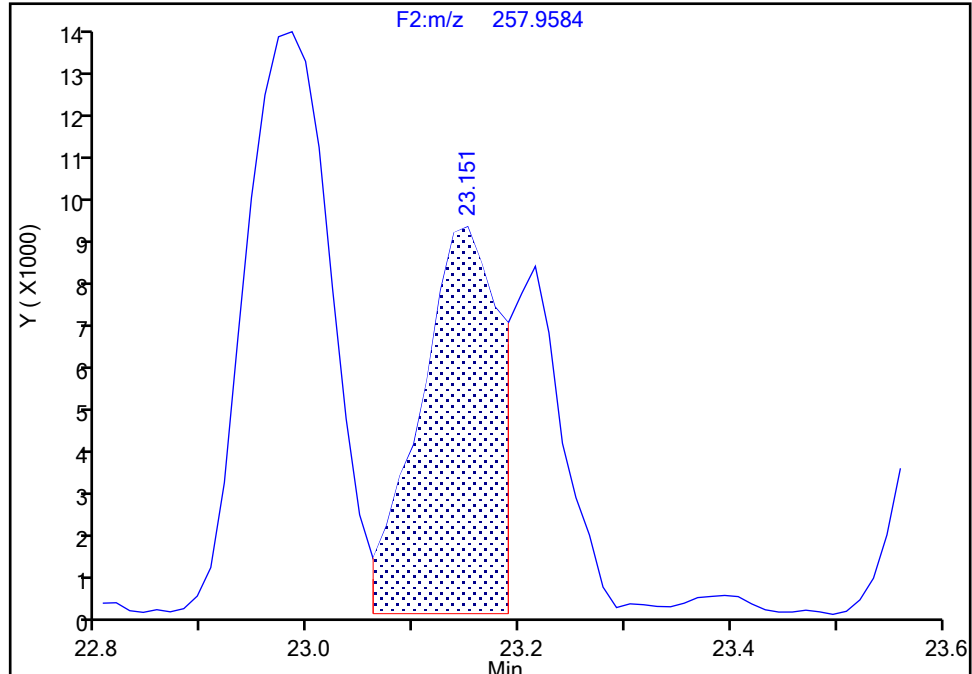
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

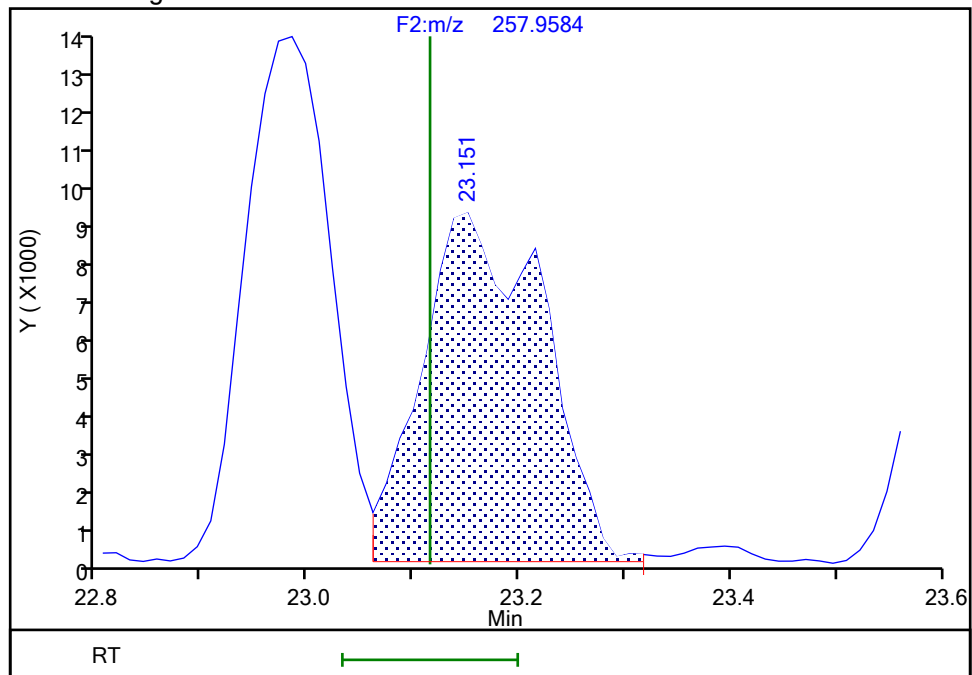
RT: 23.15
Area: 46648
Amount: 0.505312
Amount Units: pg/ul

Processing Integration Results



RT: 23.15
Area: 73943
Amount: 0.947469
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:28:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

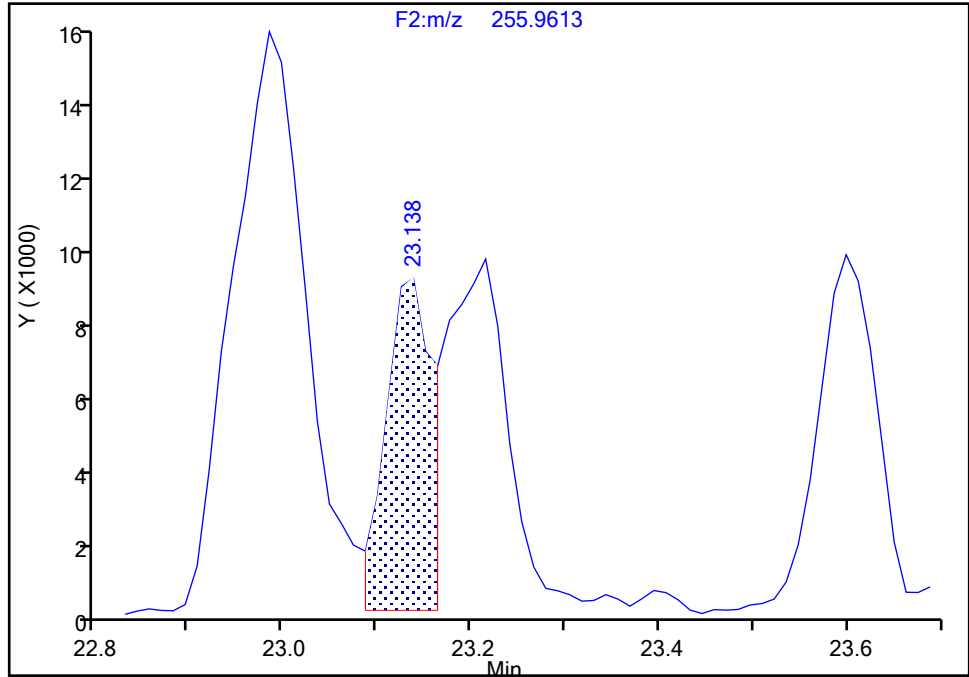
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

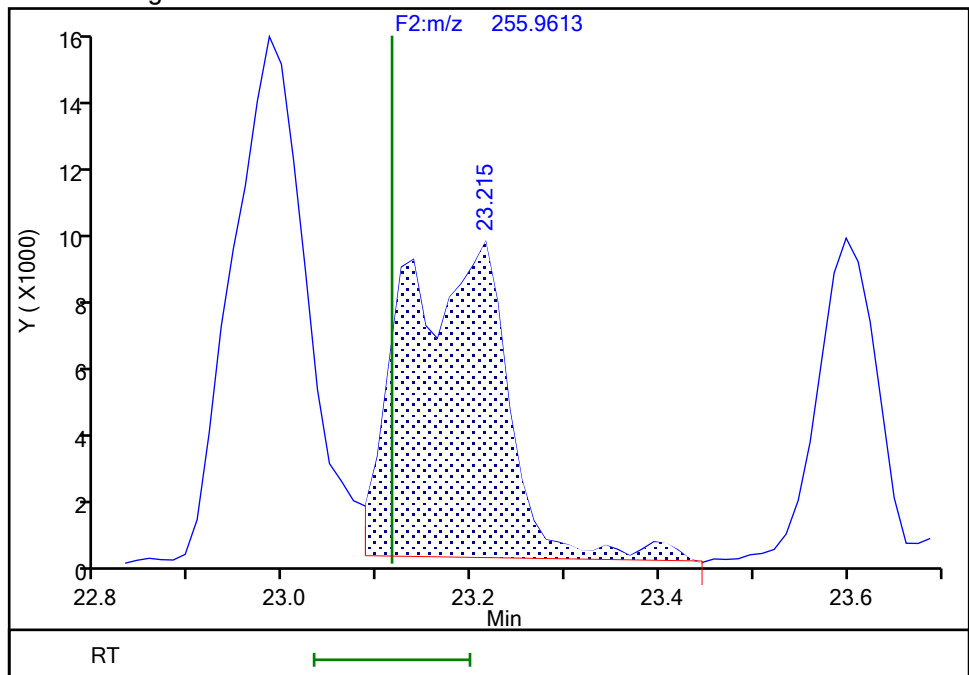
RT: 23.14
Area: 29388
Amount: 0.505312
Amount Units: pg/ul

Processing Integration Results



RT: 23.21
Area: 73767
Amount: 0.947469
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:29:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1663 of 3076

BASFHWC-G-0152024-03115
9/6/2024
2:43:26 PM

Eurofins Knoxville

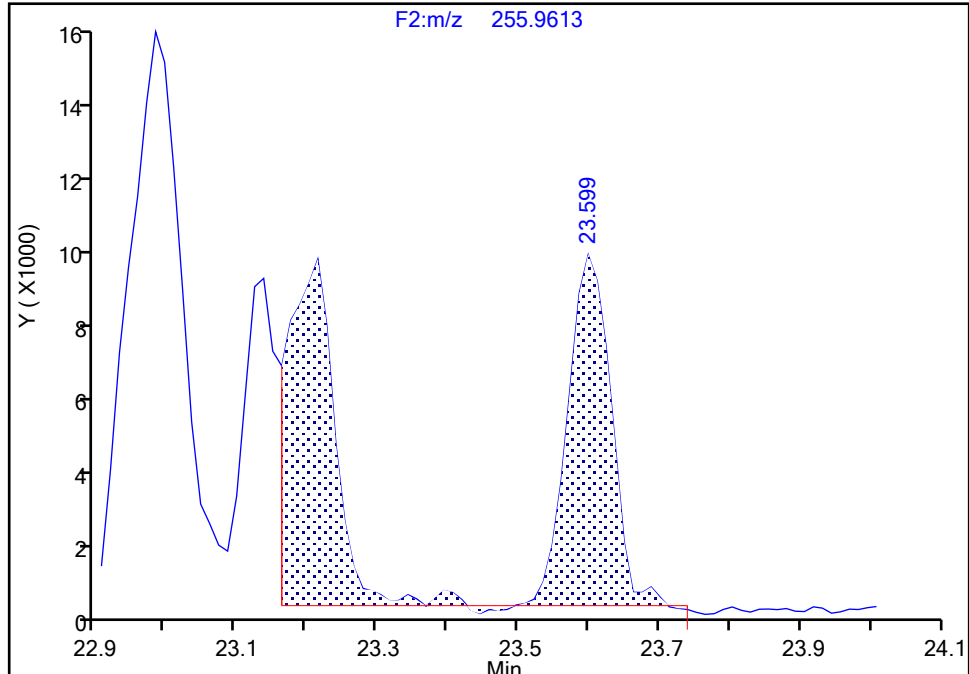
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-22, CAS: 38444-85-8

Signal: 1

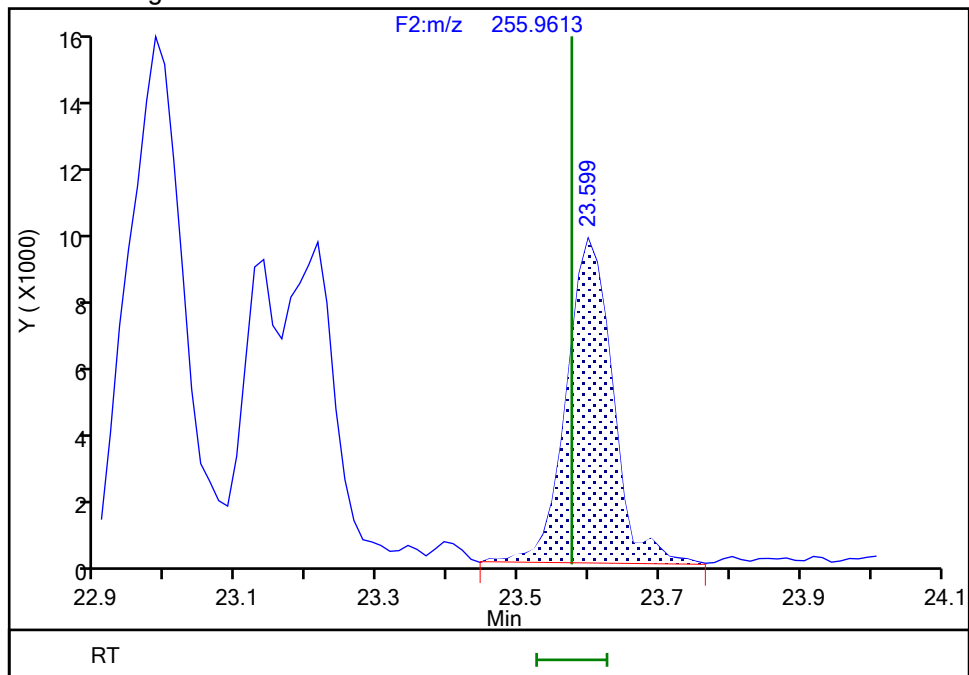
RT: 23.60
Area: 84286
Amount: 0.670944
Amount Units: pg/ul

Processing Integration Results



RT: 23.60
Area: 44761
Amount: 0.505110
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:29:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

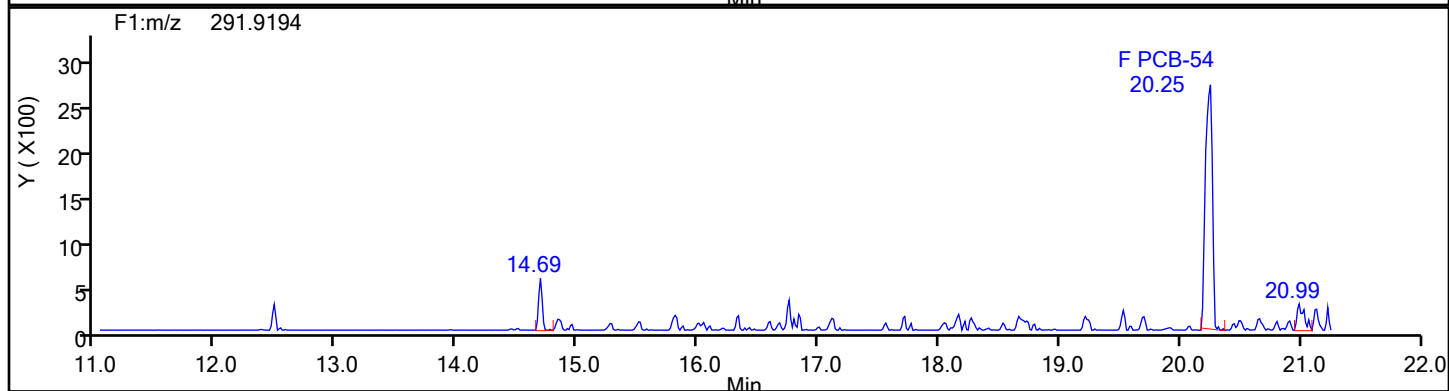
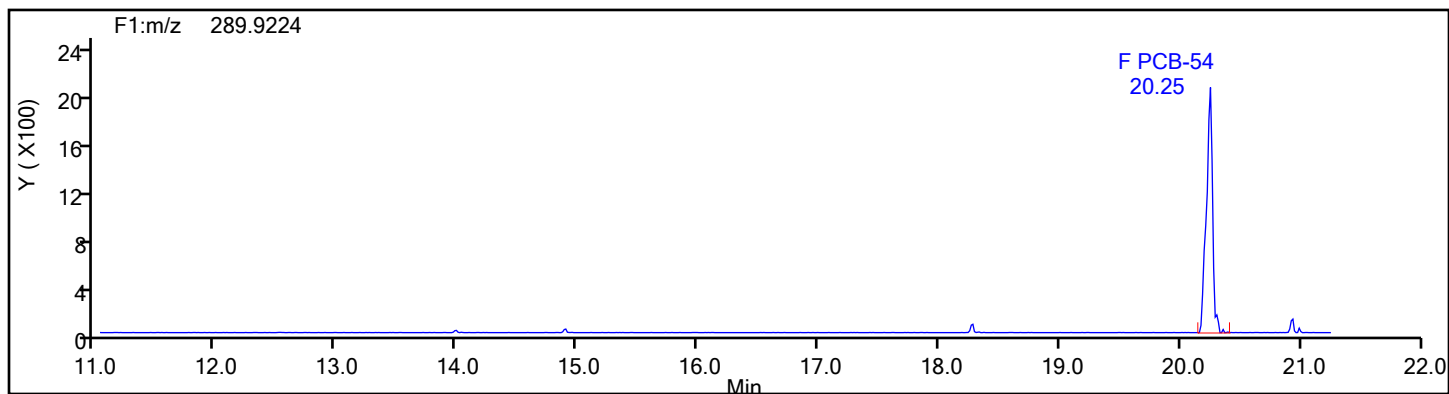
Worklist#: 87130

Sample Line#: 1

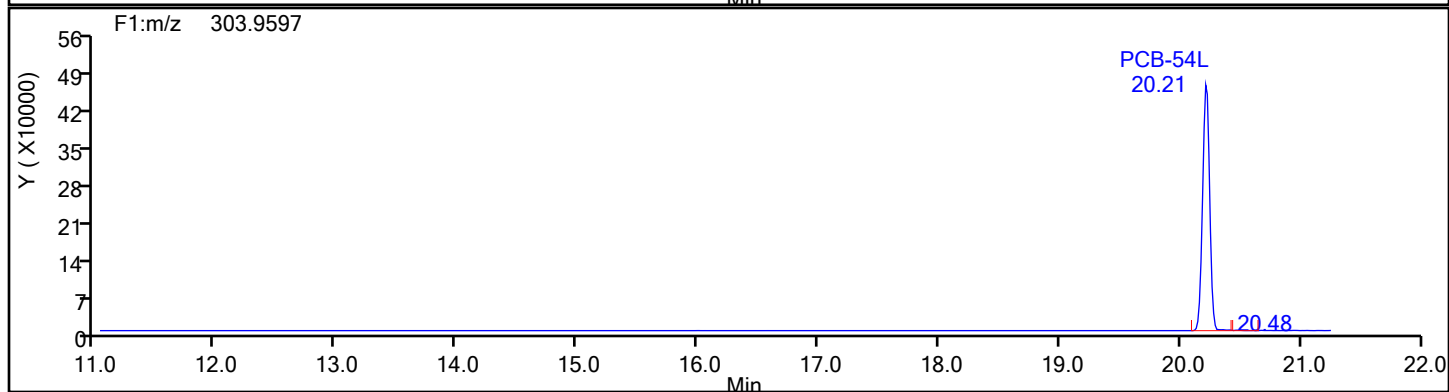
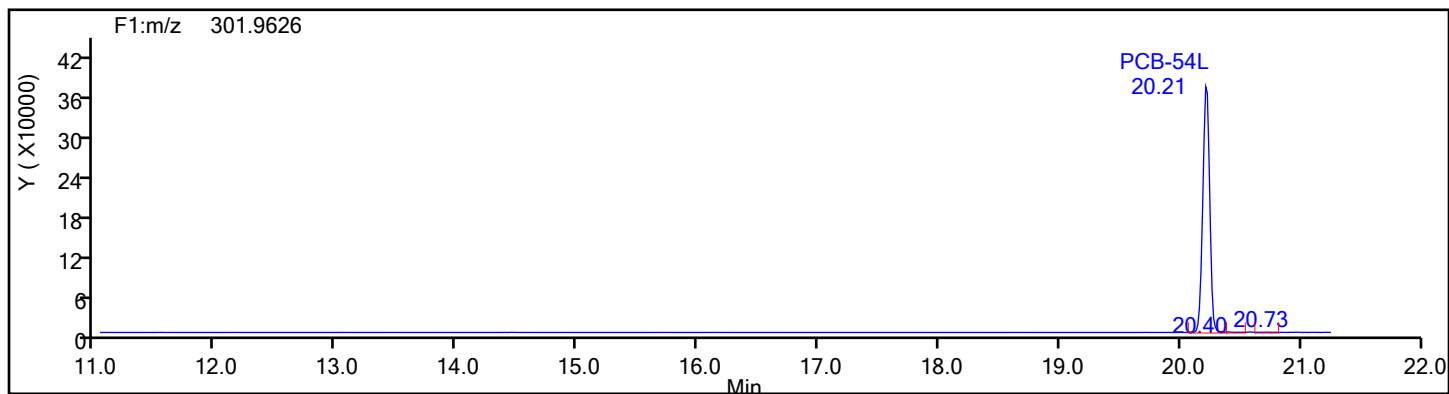
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

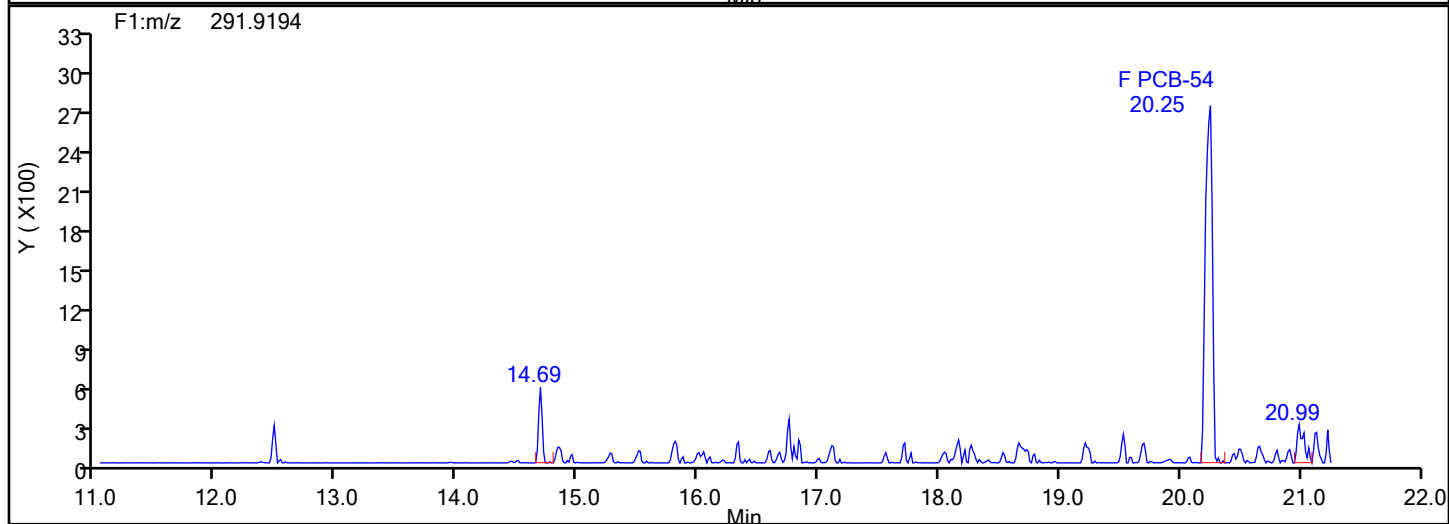
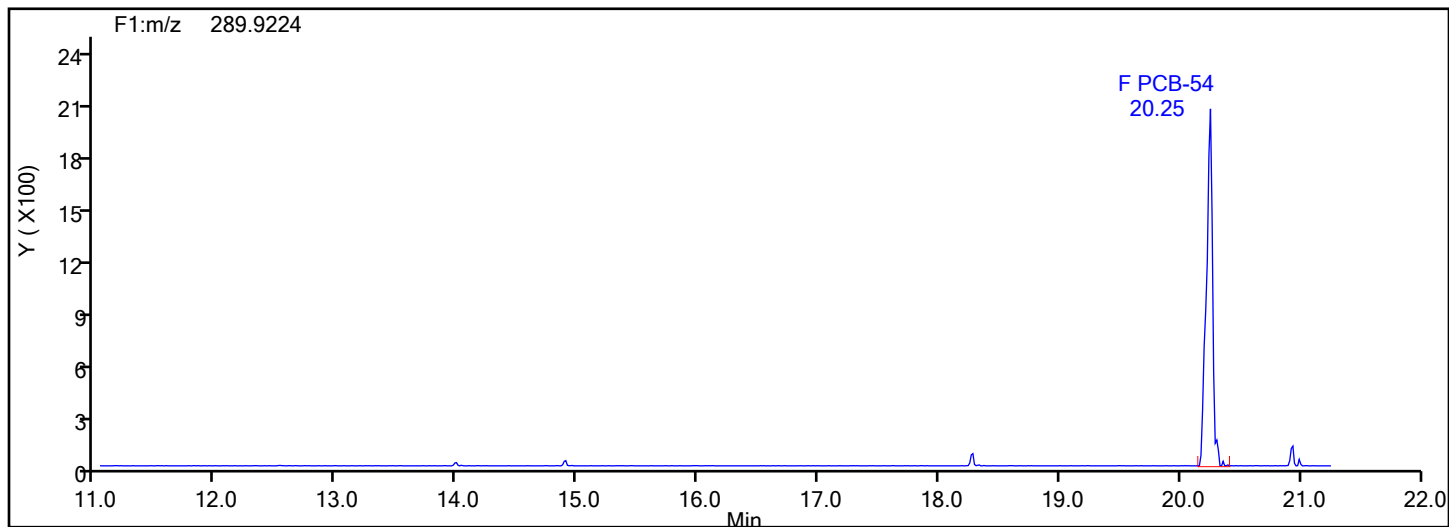
Worklist#: 87130

Sample Line#: 1

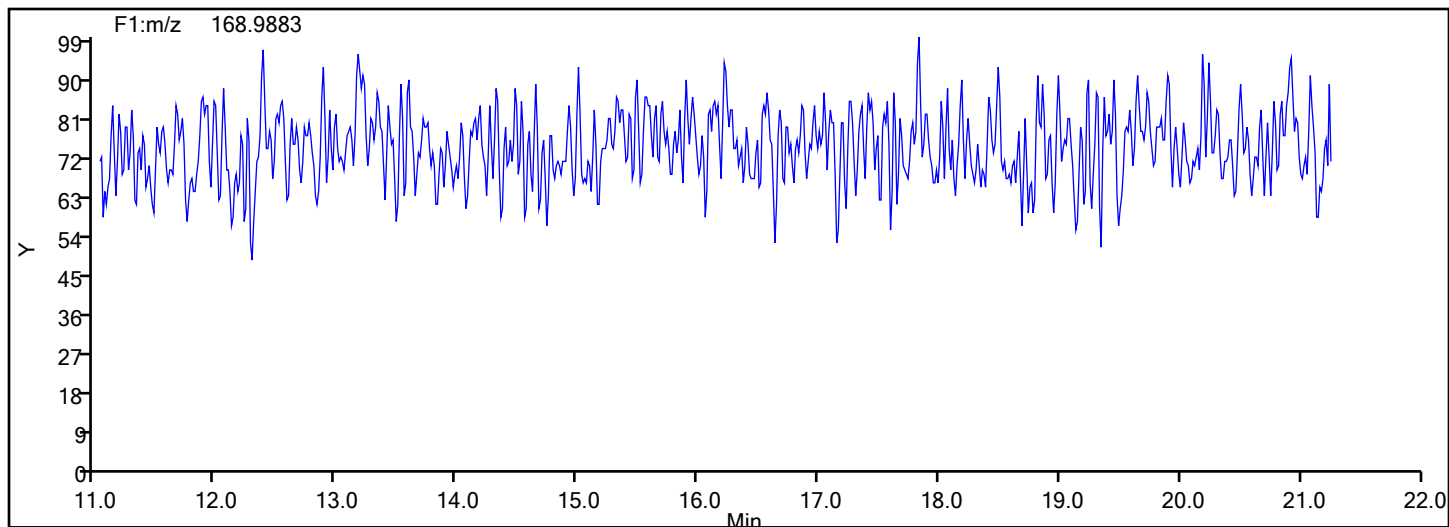
Column Type: SPB-Octyl

Column Dia: 0.25 mm

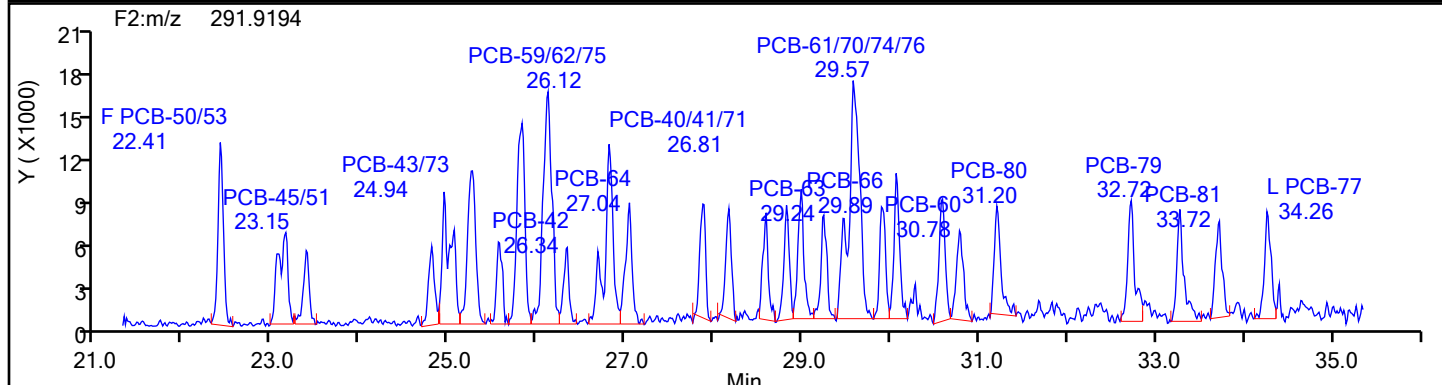
TePCB F1



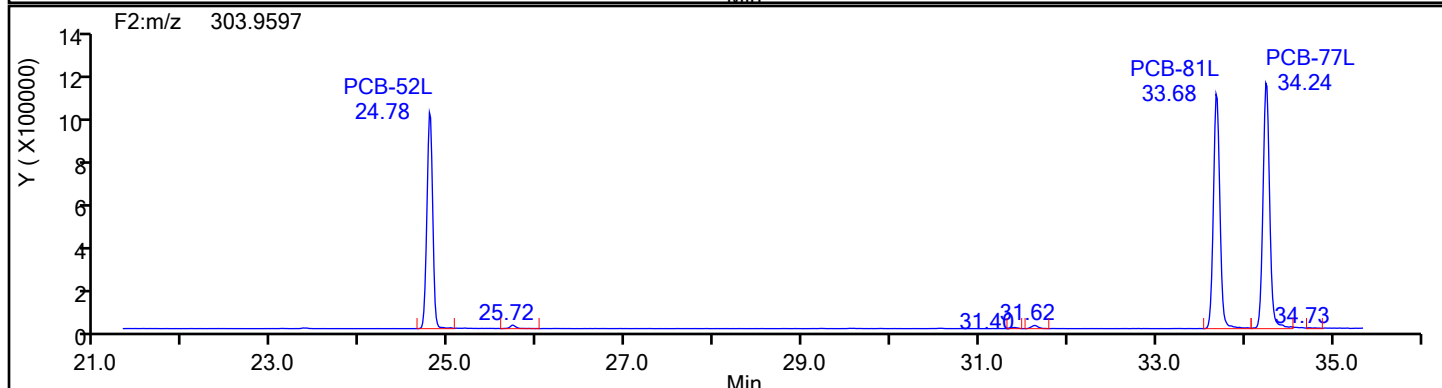
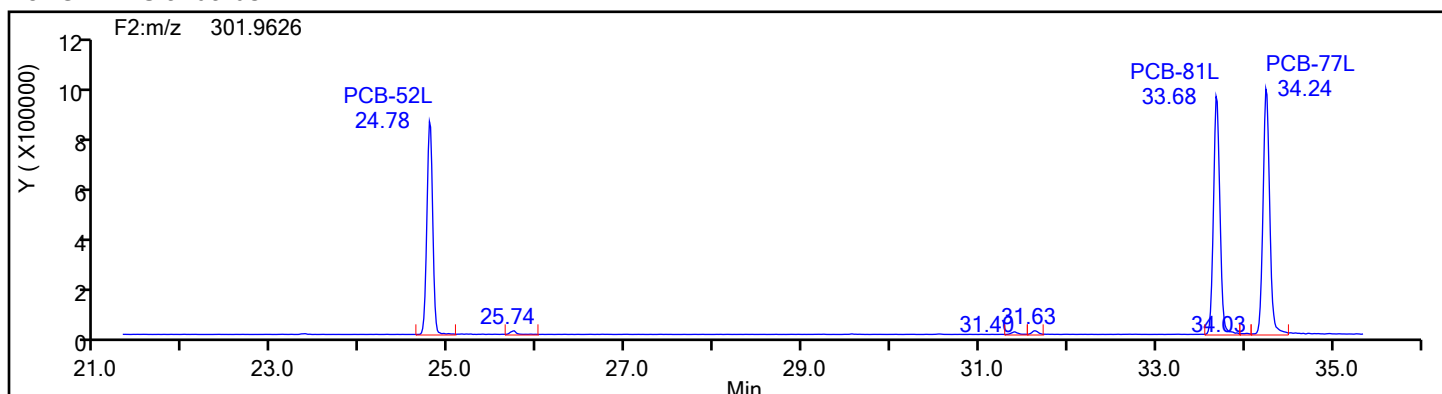
TePCB F1 Lock Mass



Column Dia: 0.25 mm



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

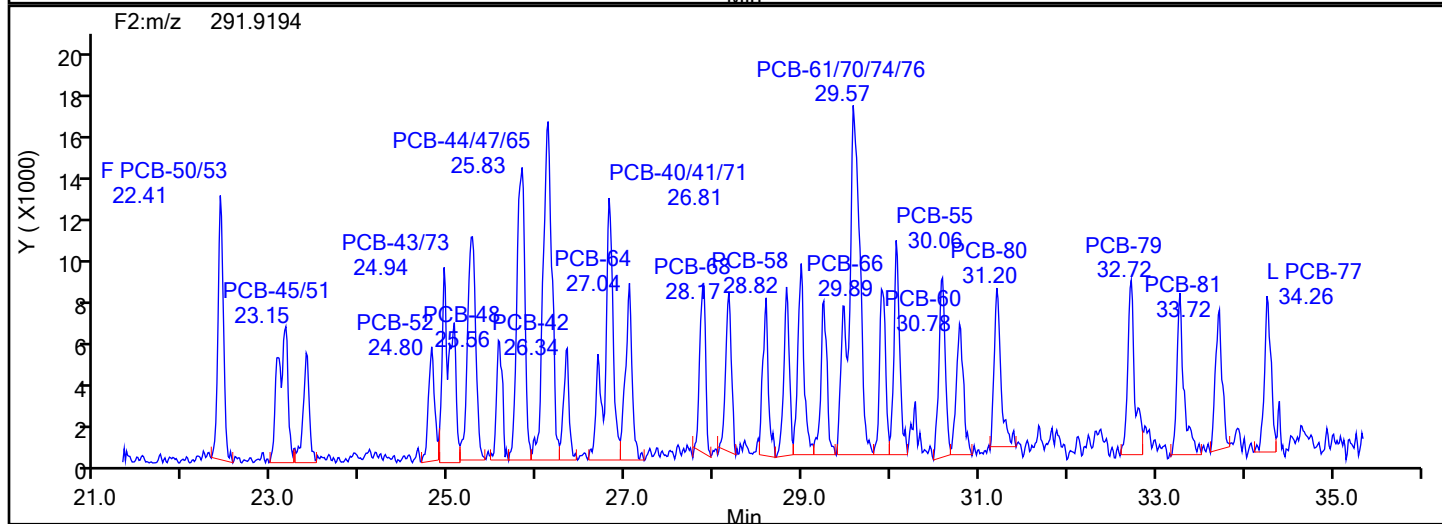
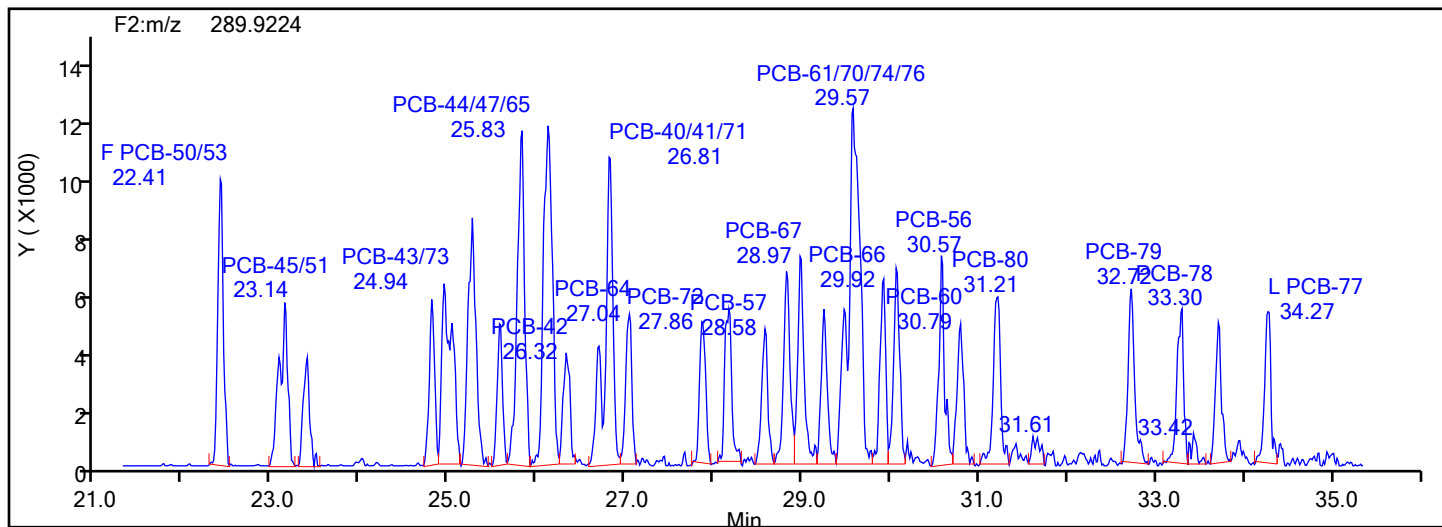
Worklist#: 87130

Sample Line#: 1

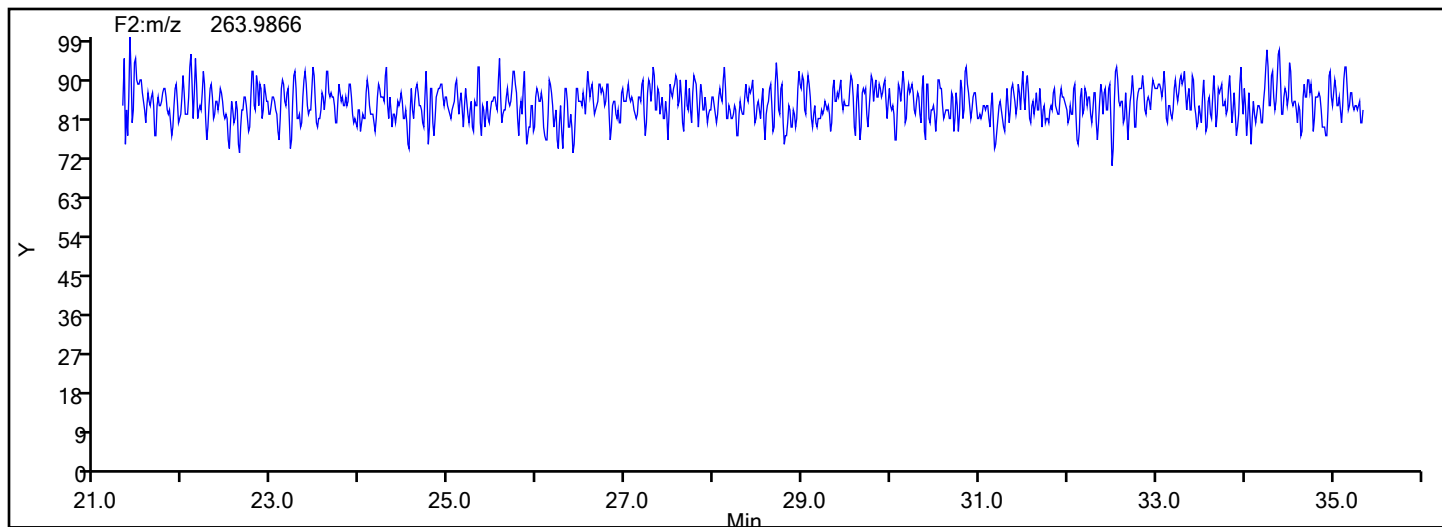
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

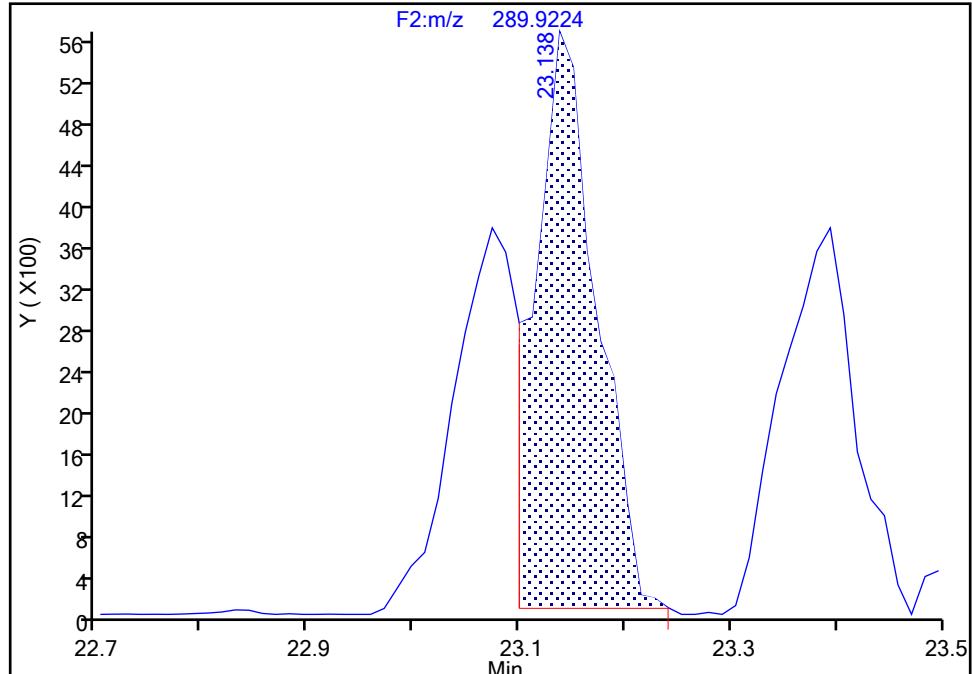
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

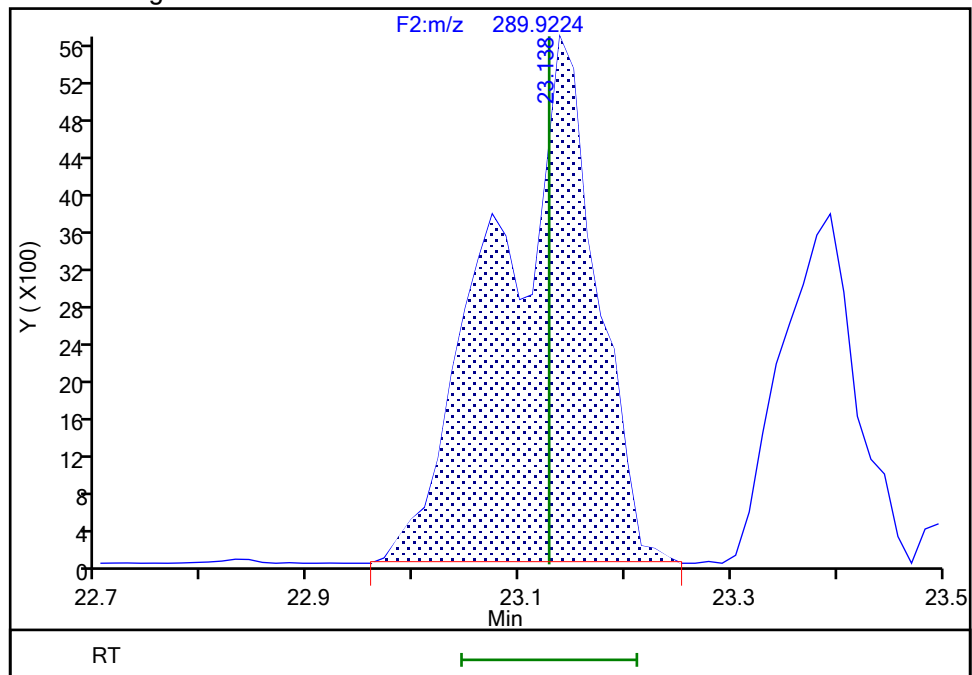
RT: 23.14
Area: 21852
Amount: 0.692797
Amount Units: pg/ul

Processing Integration Results



RT: 23.14
Area: 36905
Amount: 0.981981
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:29:04 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

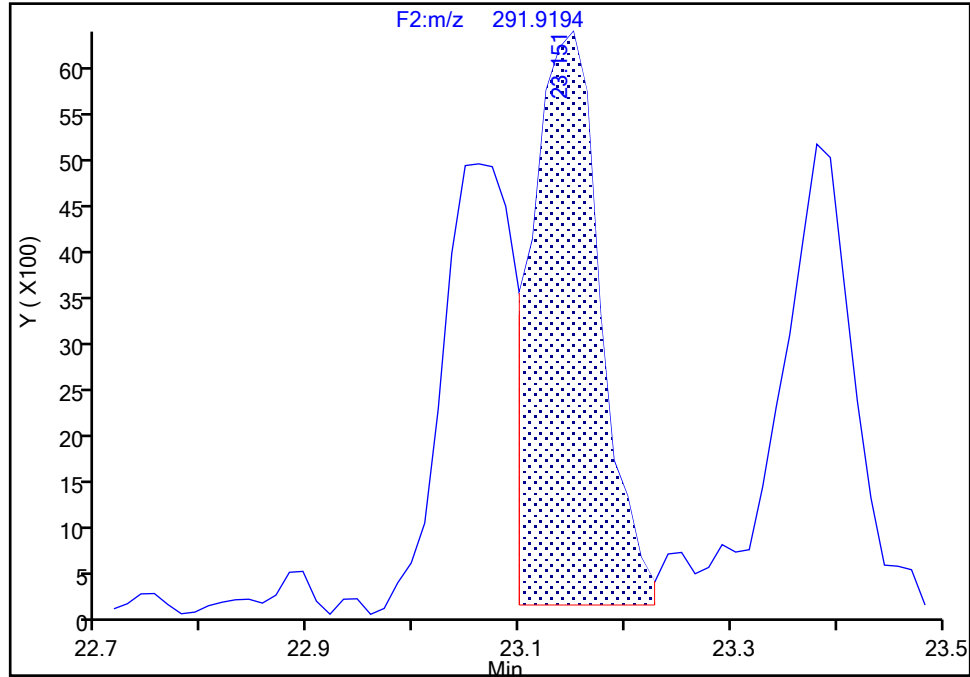
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

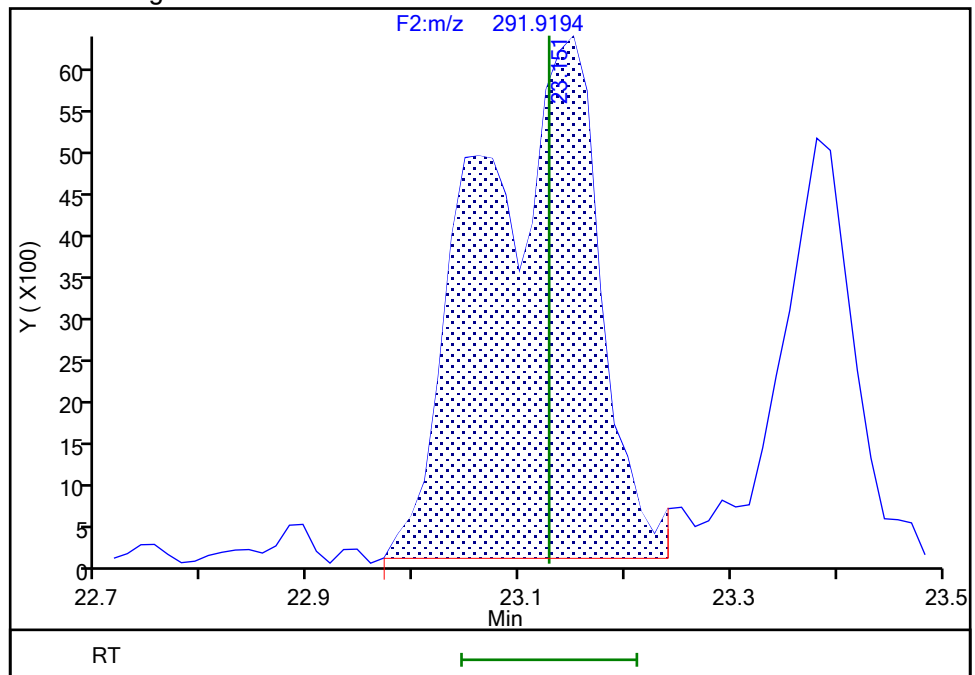
RT: 23.15
Area: 27565
Amount: 0.692797
Amount Units: pg/ul

Processing Integration Results



RT: 23.15
Area: 50053
Amount: 0.981981
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:29:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

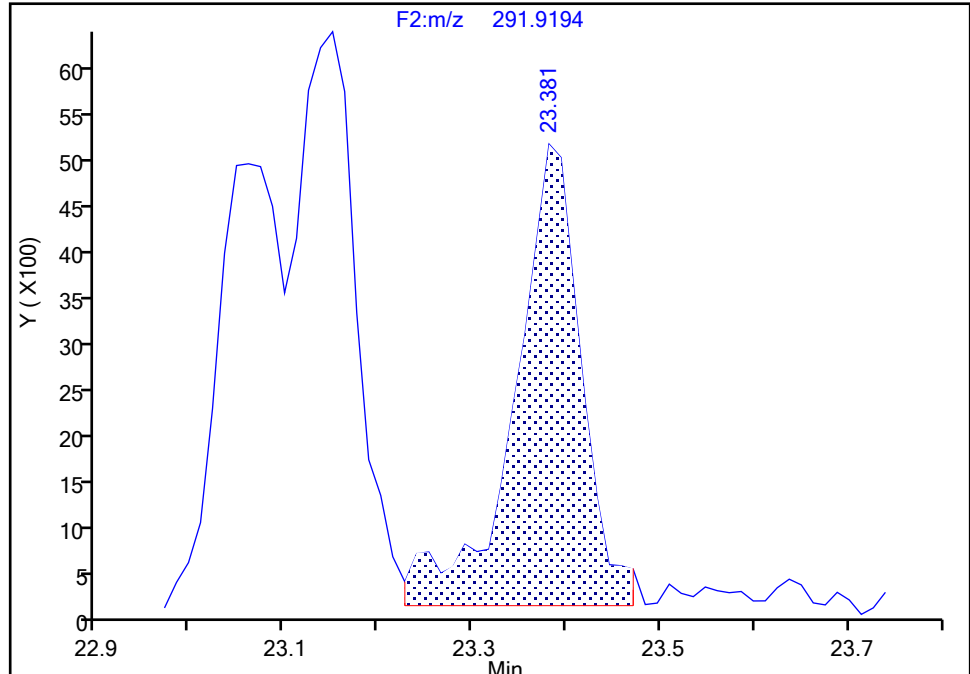
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-46, CAS: 41464-47-5

Signal: 2

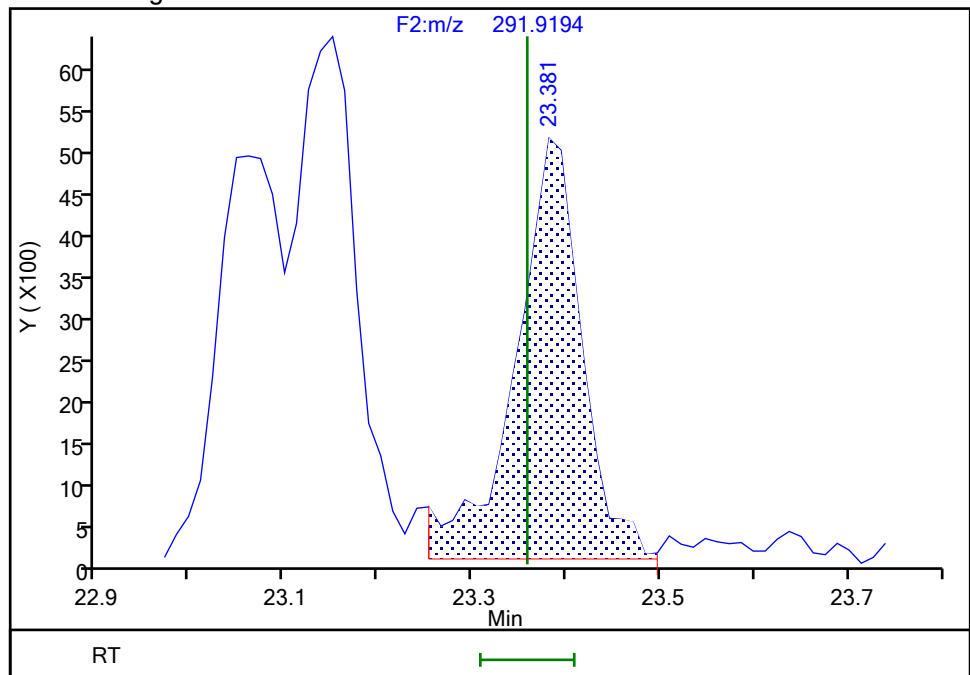
RT: 23.38
Area: 24759
Amount: 0.646077
Amount Units: pg/ul

Processing Integration Results



RT: 23.38
Area: 24801
Amount: 0.572922
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:29:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

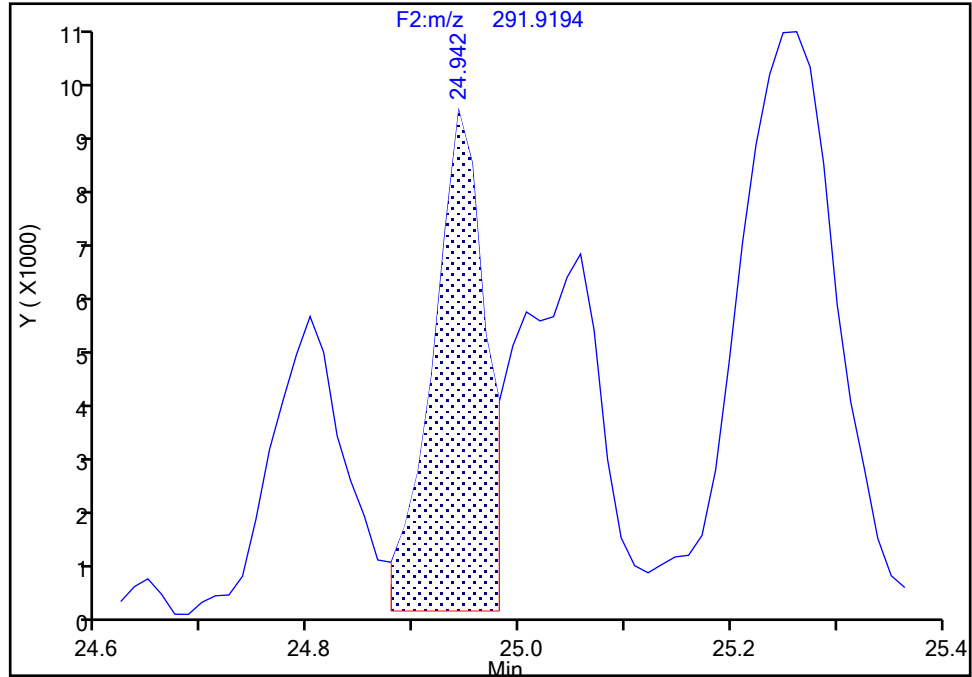
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

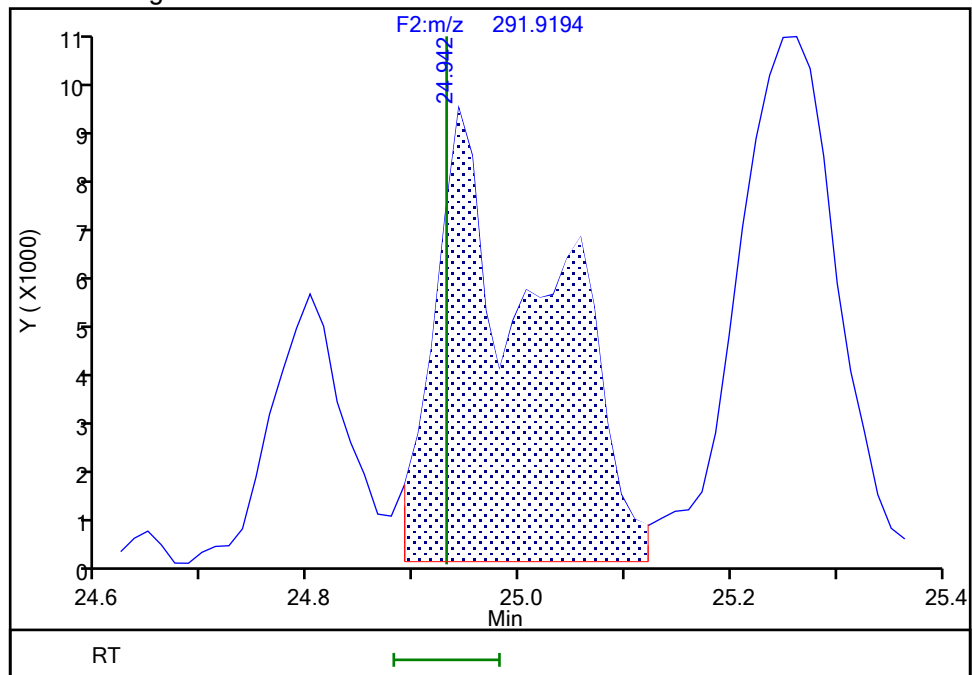
RT: 24.94
Area: 30396
Amount: 0.858929
Amount Units: pg/ul

Processing Integration Results



RT: 24.94
Area: 64927
Amount: 1.040983
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:29:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

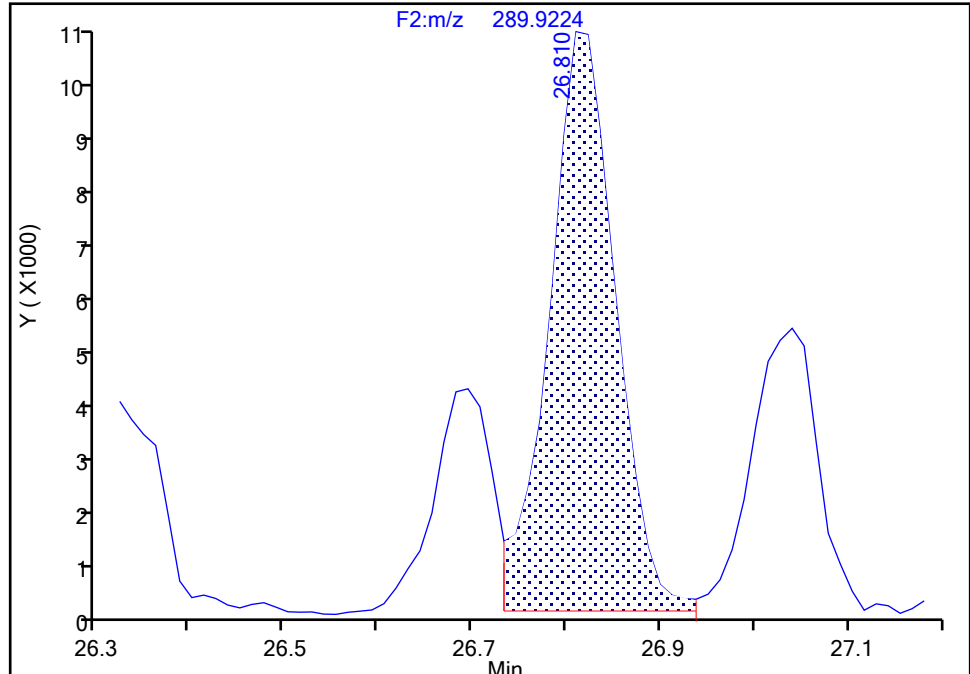
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

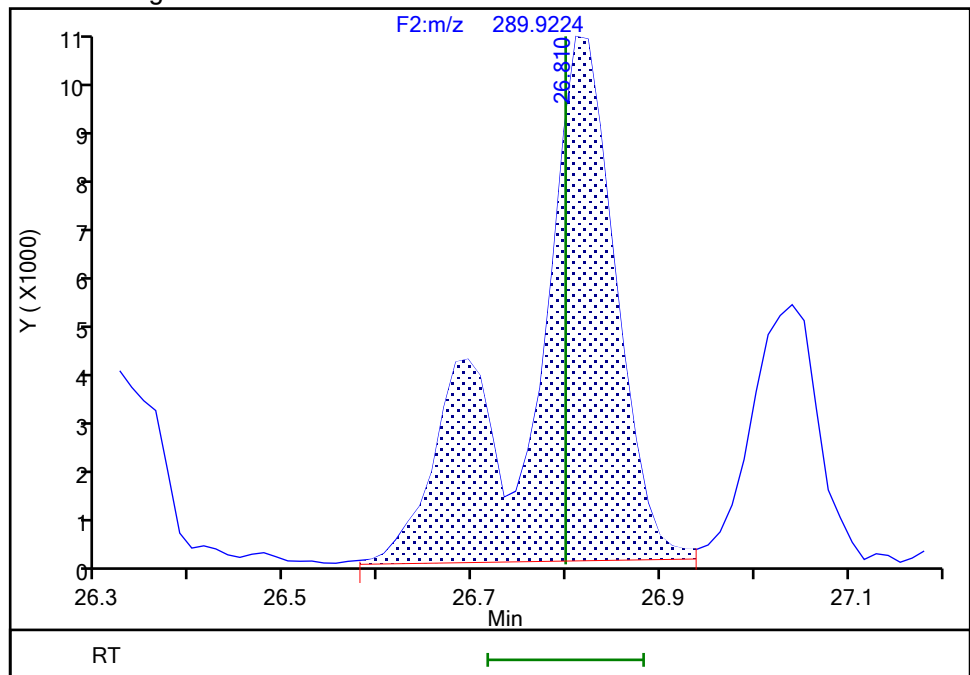
RT: 26.81
Area: 51372
Amount: 1.634828
Amount Units: pg/ul

Processing Integration Results



RT: 26.81
Area: 69186
Amount: 1.611545
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:30:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

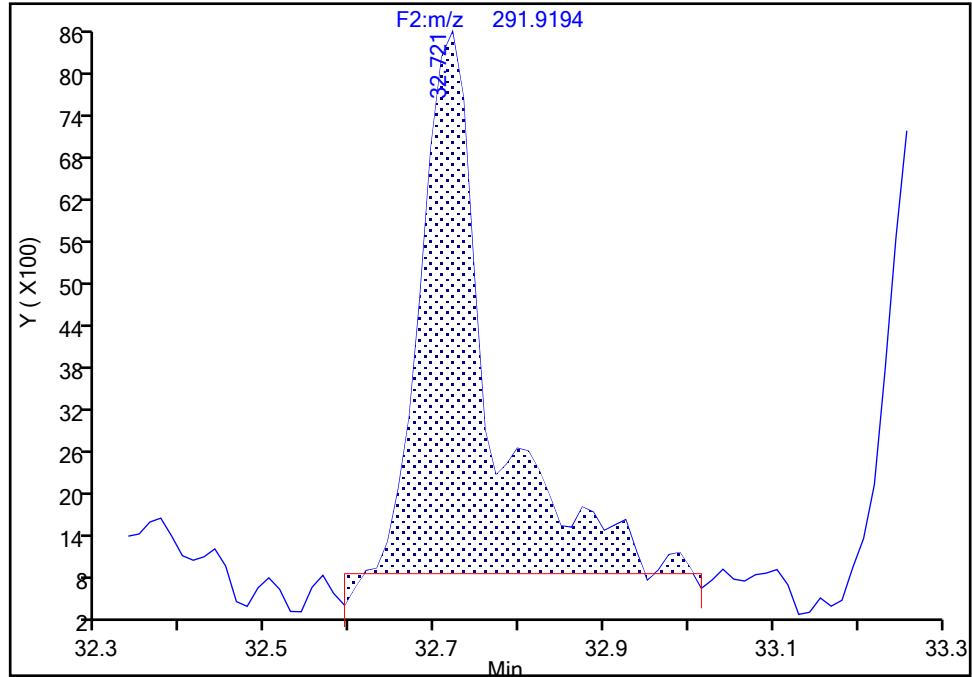
Detector F2(21.81 :35.54)

PCB-79, CAS: 41464-48-6

Signal: 2

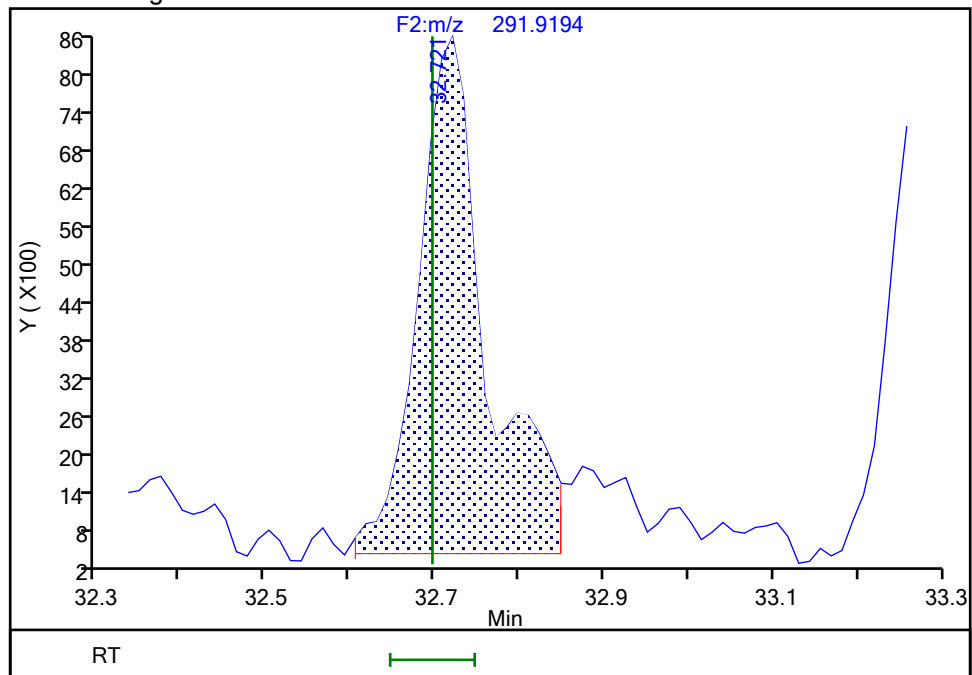
RT: 32.72
Area: 43504
Amount: 0.482447
Amount Units: pg/ul

Processing Integration Results



RT: 32.72
Area: 46208
Amount: 0.502698
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:32:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

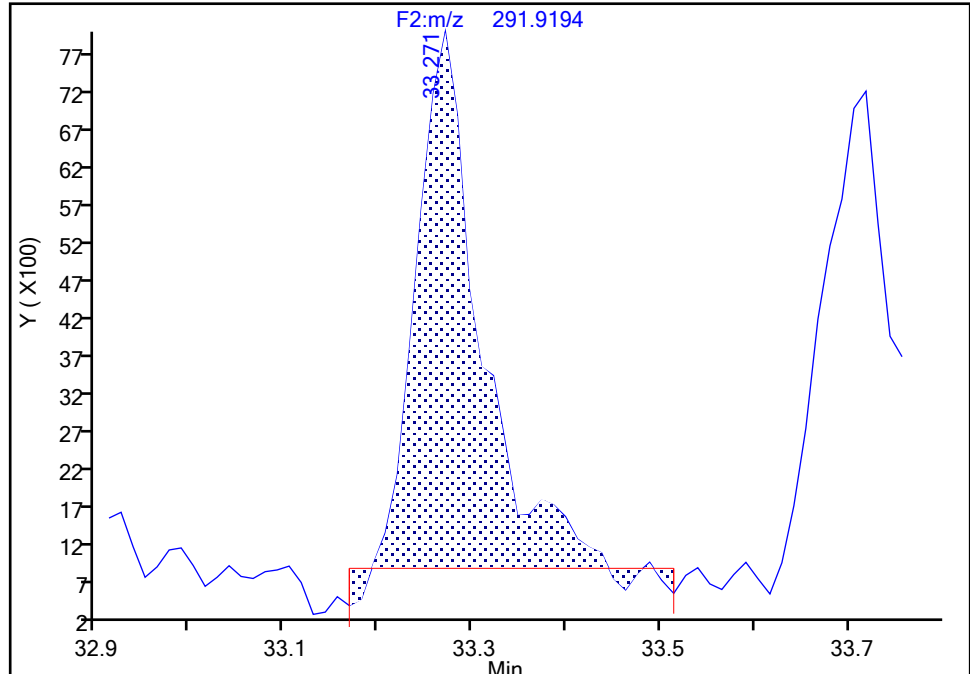
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-78, CAS: 70362-49-1

Signal: 2

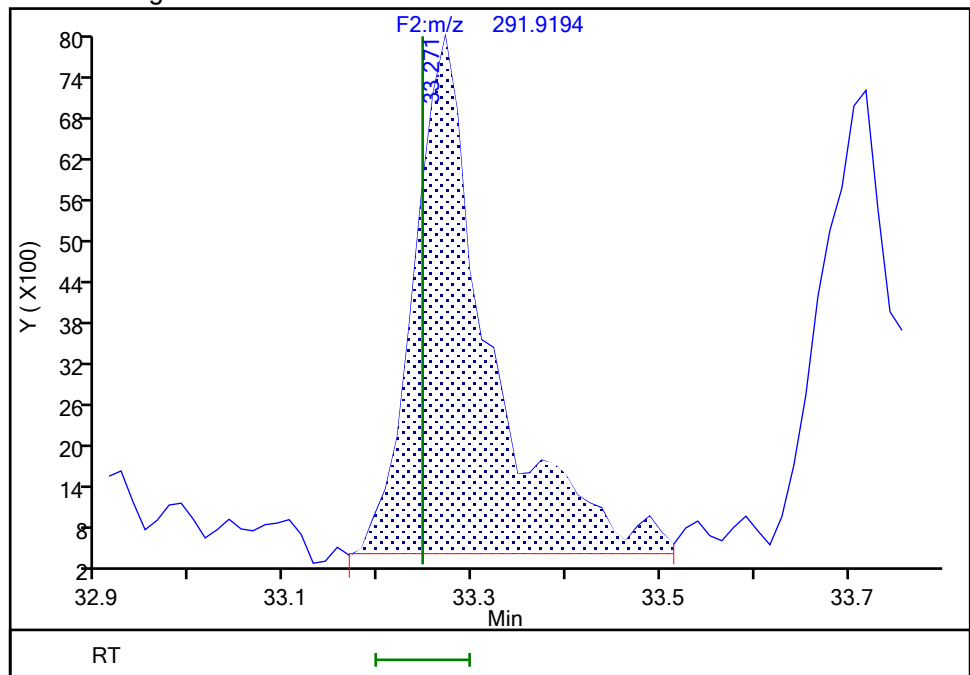
RT: 33.27
Area: 33199
Amount: 0.483750
Amount Units: pg/ul

Processing Integration Results



RT: 33.27
Area: 42776
Amount: 0.568900
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:30:57 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Knoxville

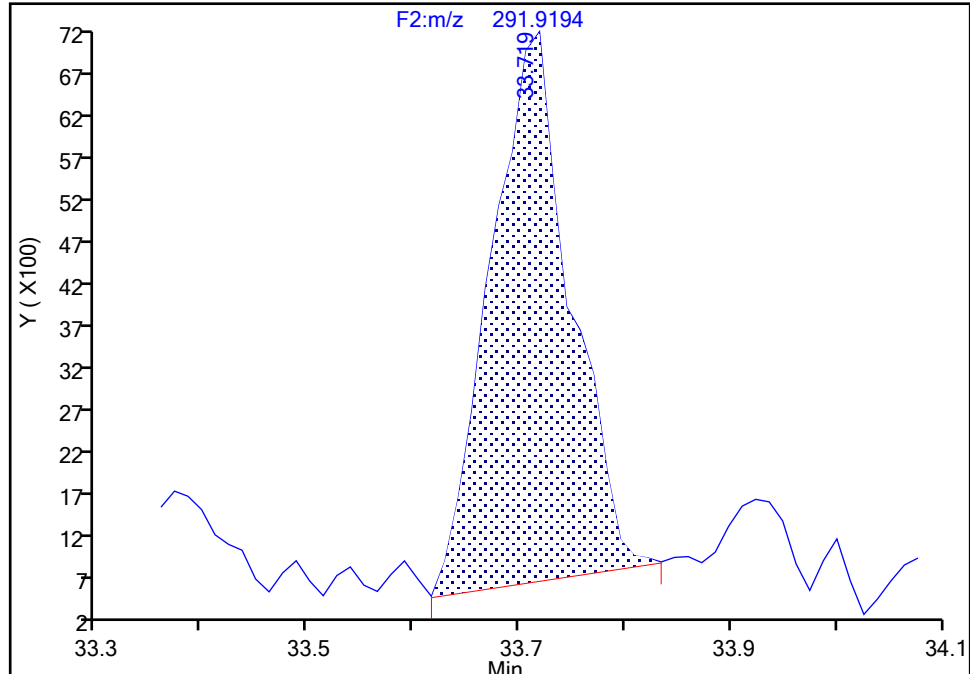
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-81, CAS: 70362-50-4

Signal: 2

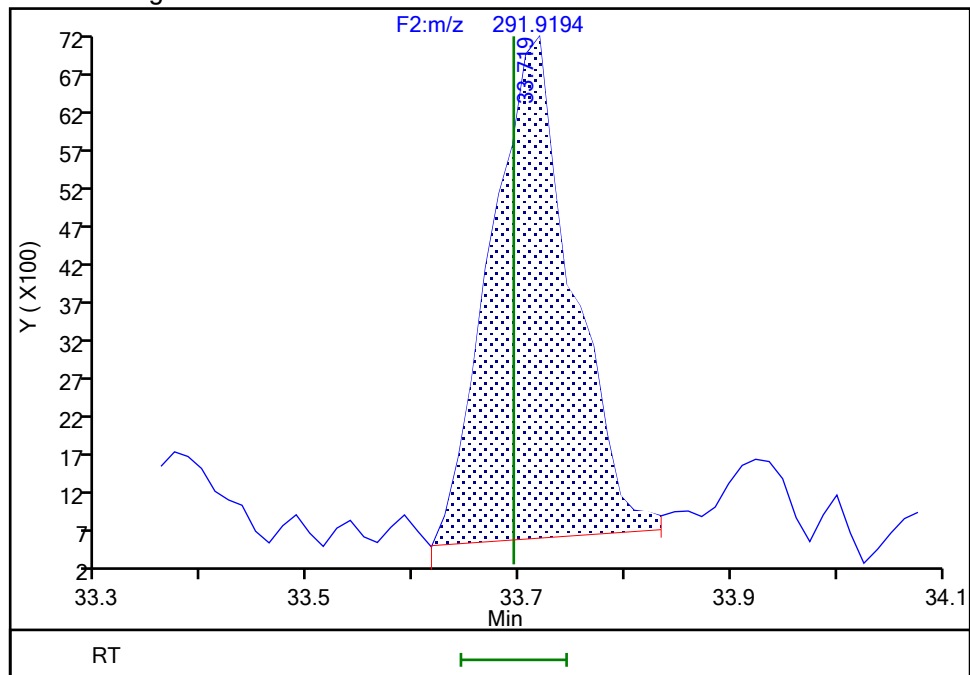
RT: 33.72
Area: 34022
Amount: 0.537140
Amount Units: pg/ul

Processing Integration Results



RT: 33.72
Area: 35118
Amount: 0.518318
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:31:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

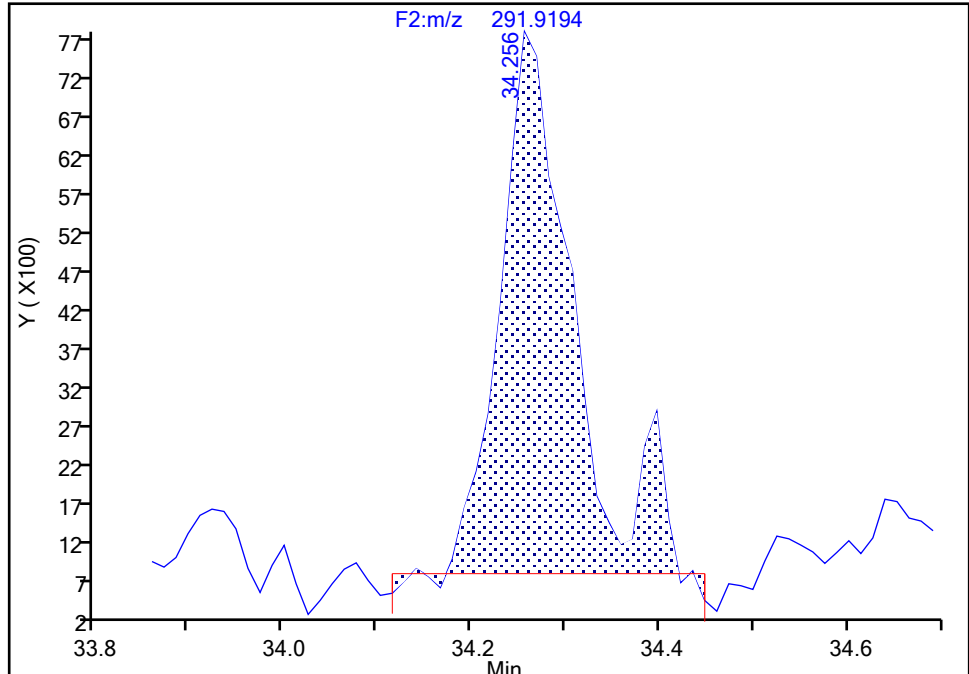
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 2

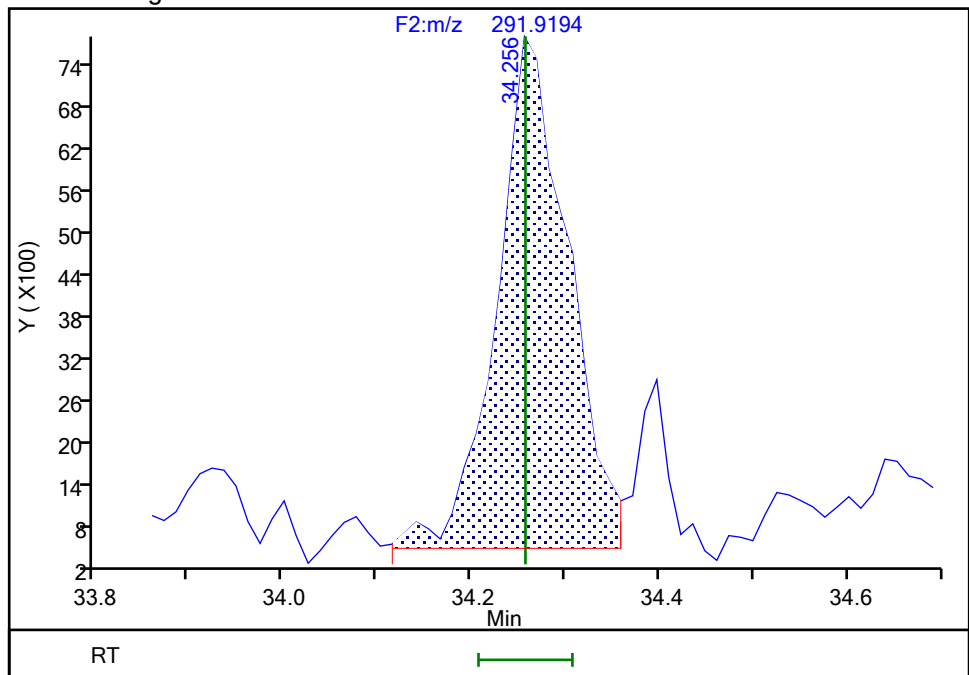
RT: 34.26
Area: 37472
Amount: 0.539276
Amount Units: pg/ul

Processing Integration Results



RT: 34.26
Area: 38606
Amount: 0.539333
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:31:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

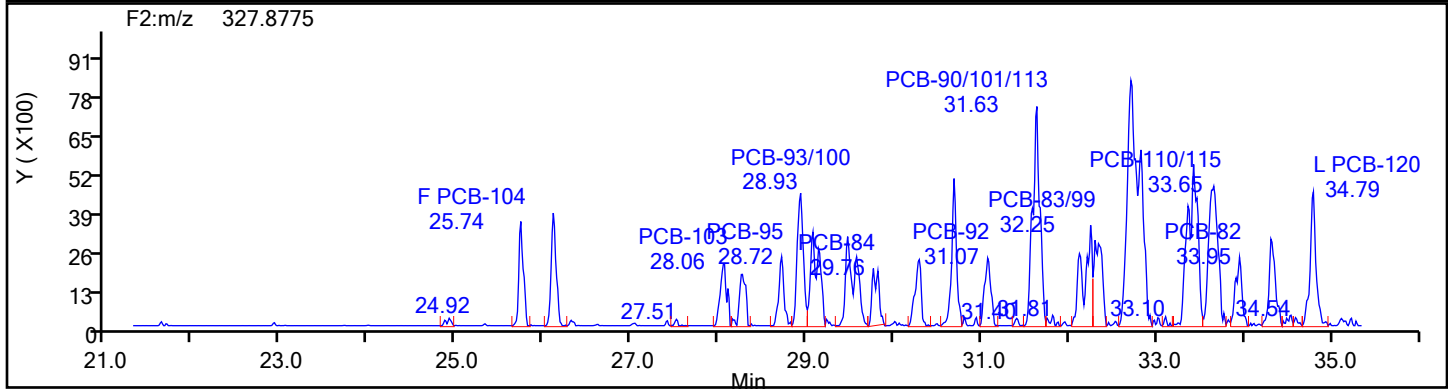
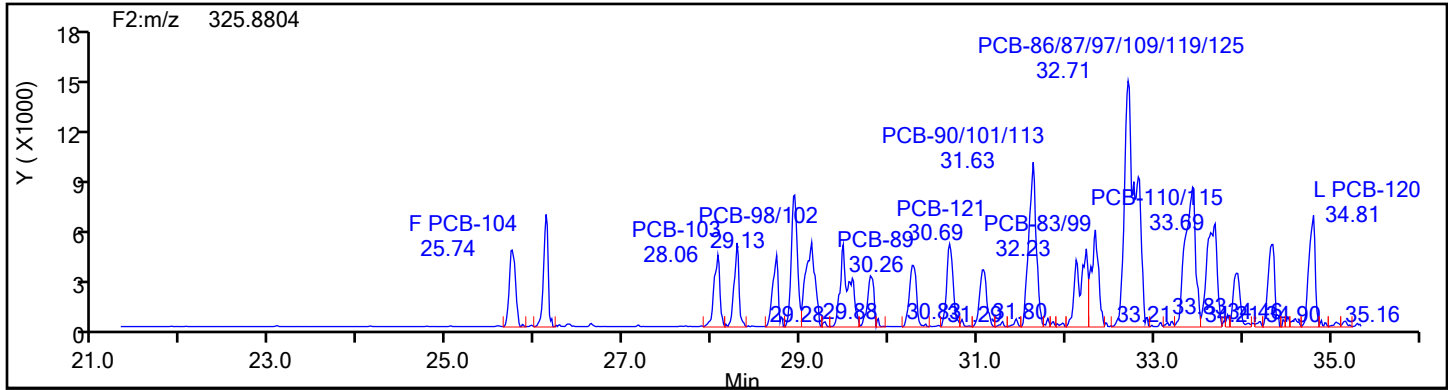
Worklist#: 87130

Sample Line#: 1

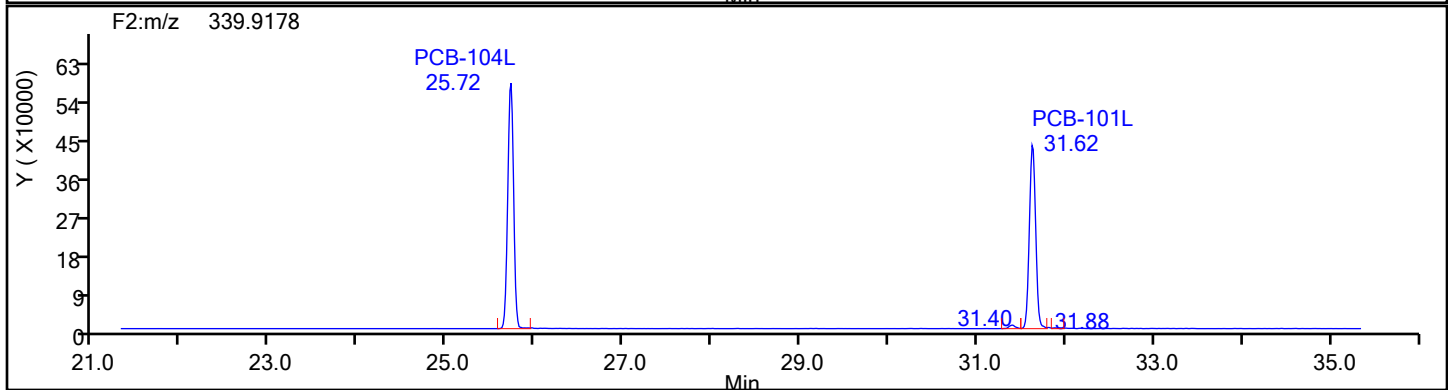
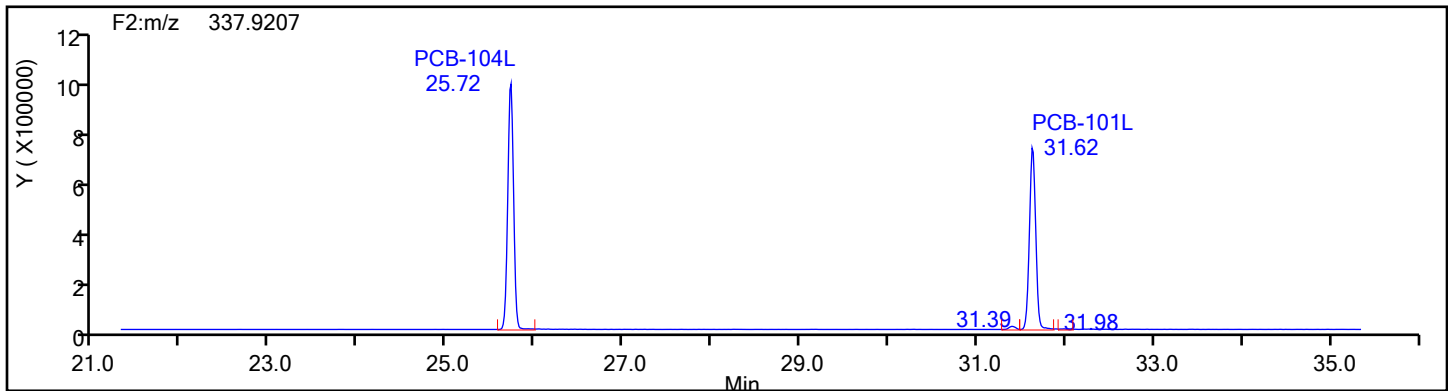
Column Type: SPB-Octyl

Column Dia: 0.25 mm

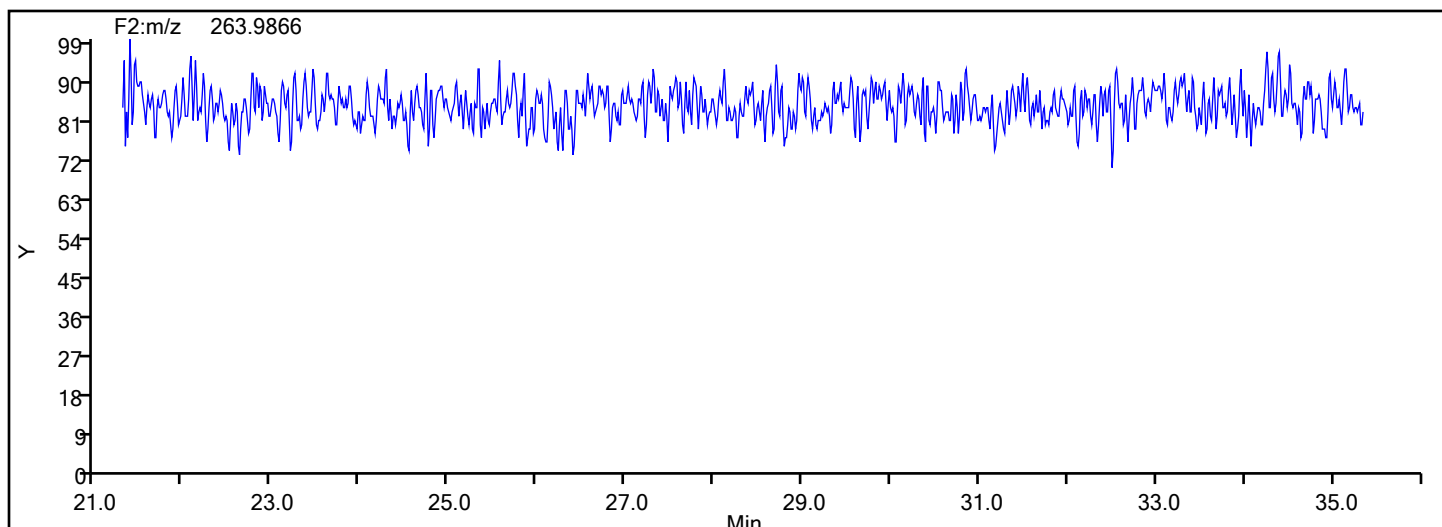
PePCB F2



PePCB F2 Standards



PePCB F2



Eurofins Knoxville

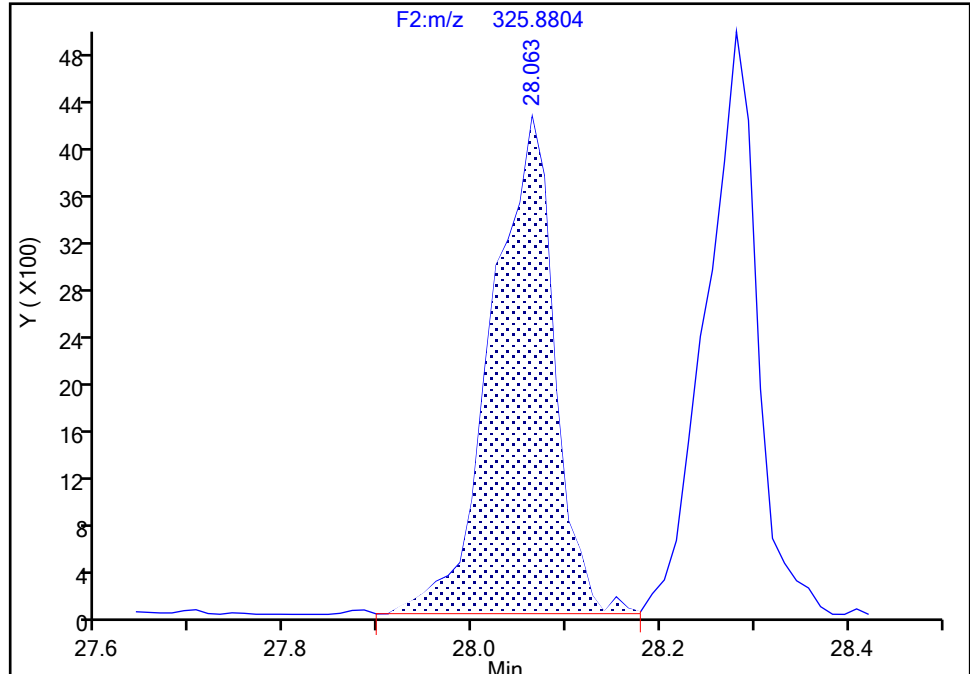
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-103, CAS: 60145-21-3

Signal: 1

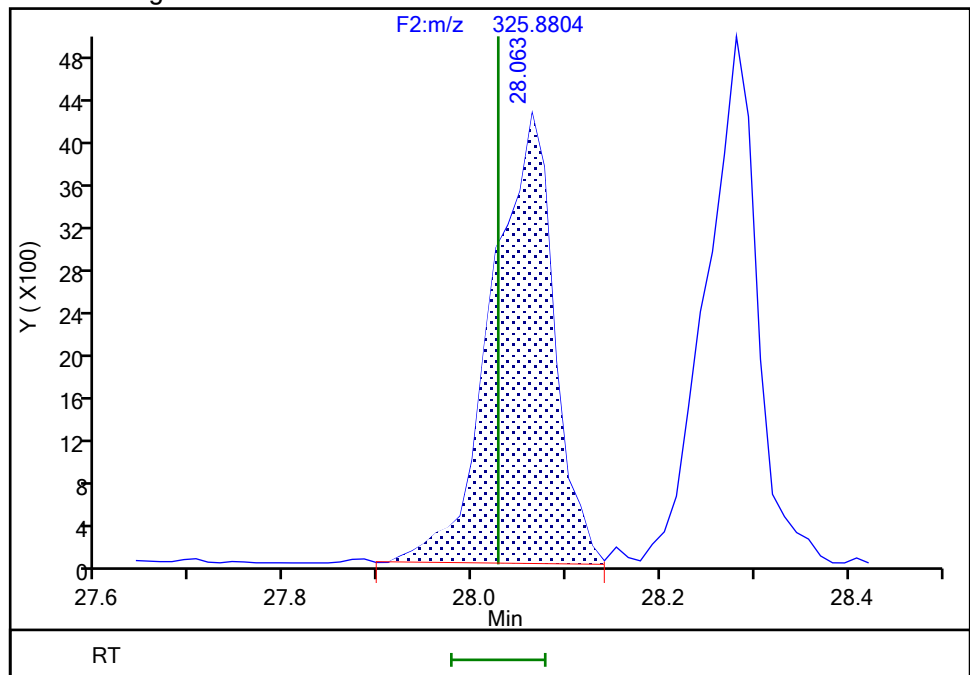
RT: 28.06
Area: 19438
Amount: 0.509404
Amount Units: pg/ul

Processing Integration Results



RT: 28.06
Area: 19294
Amount: 0.499667
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:42 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

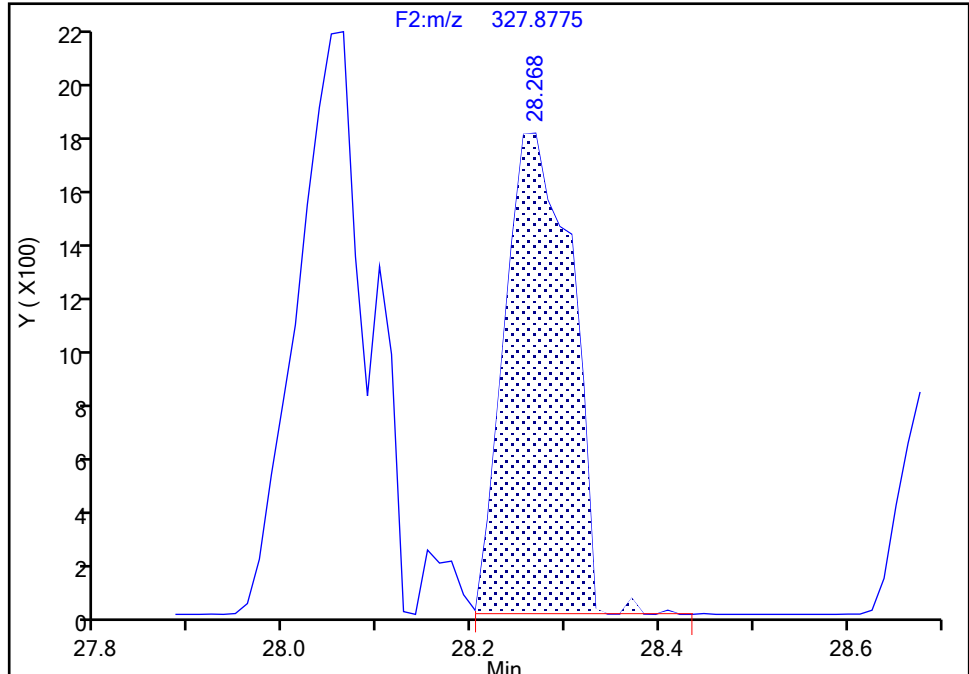
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-94, CAS: 73575-55-0

Signal: 2

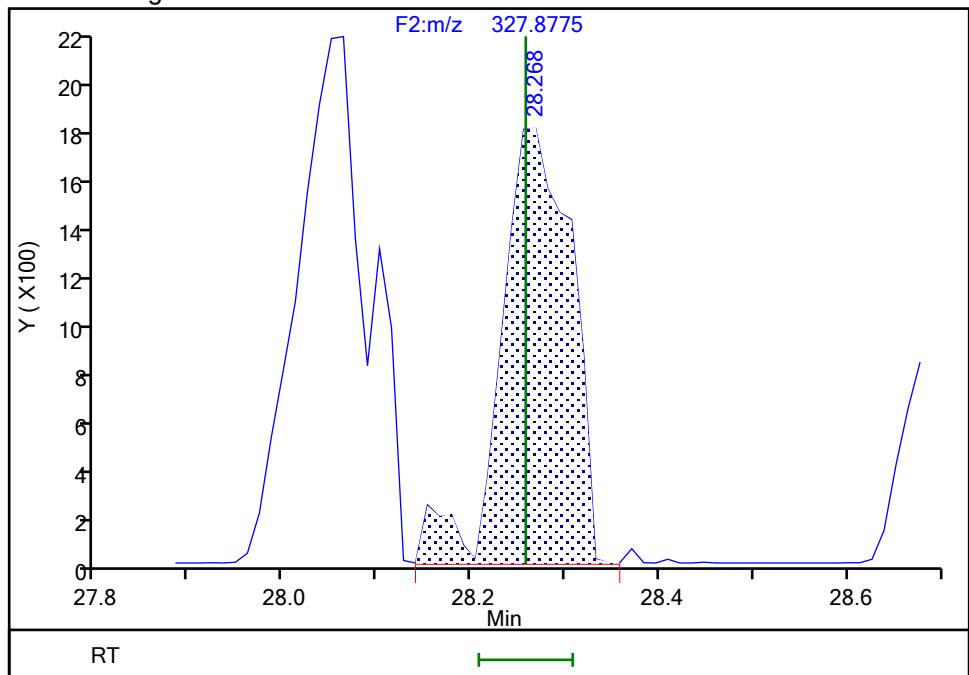
RT: 28.27
Area: 8569
Amount: 0.521693
Amount Units: pg/ul

Processing Integration Results



RT: 28.27
Area: 9052
Amount: 0.523542
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

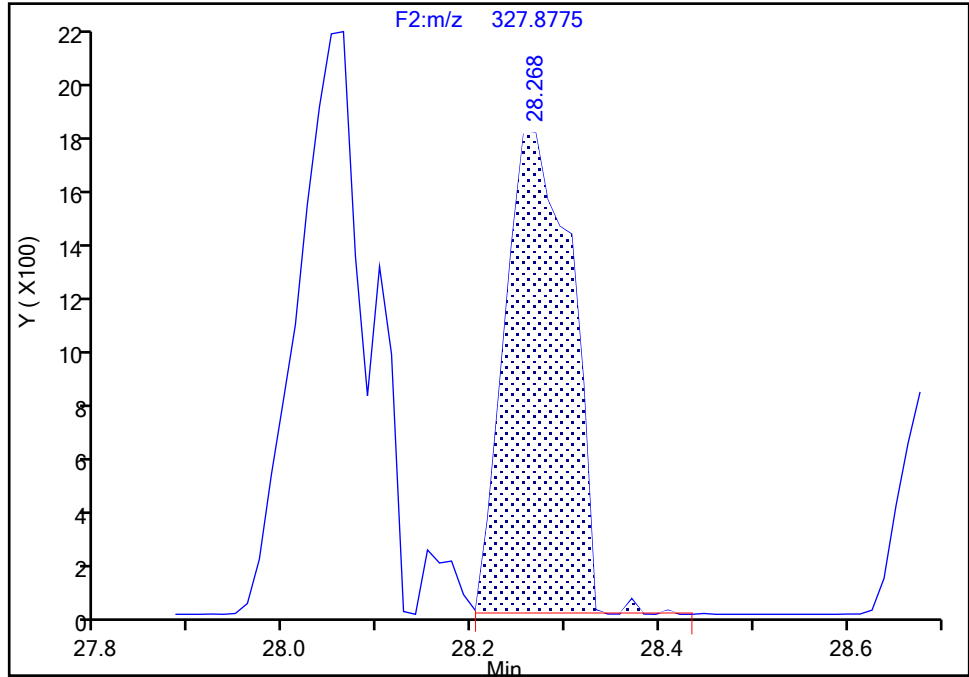
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-94, CAS: 73575-55-0

Signal: 2

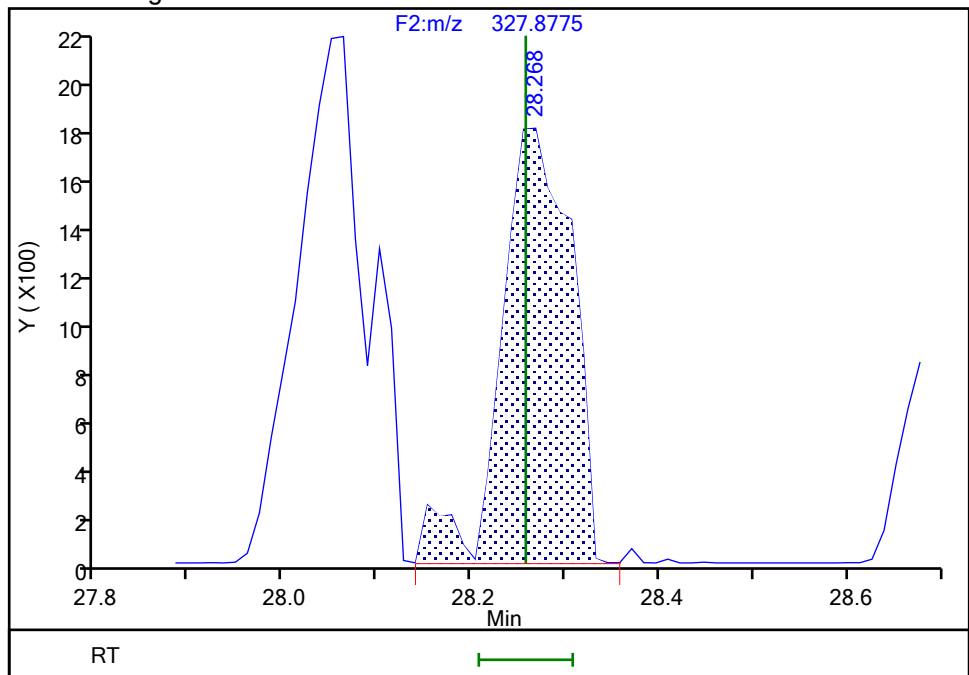
RT: 28.27
Area: 8569
Amount: 0.521693
Amount Units: pg/ul

Processing Integration Results



RT: 28.27
Area: 9052
Amount: 0.523542
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:50 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

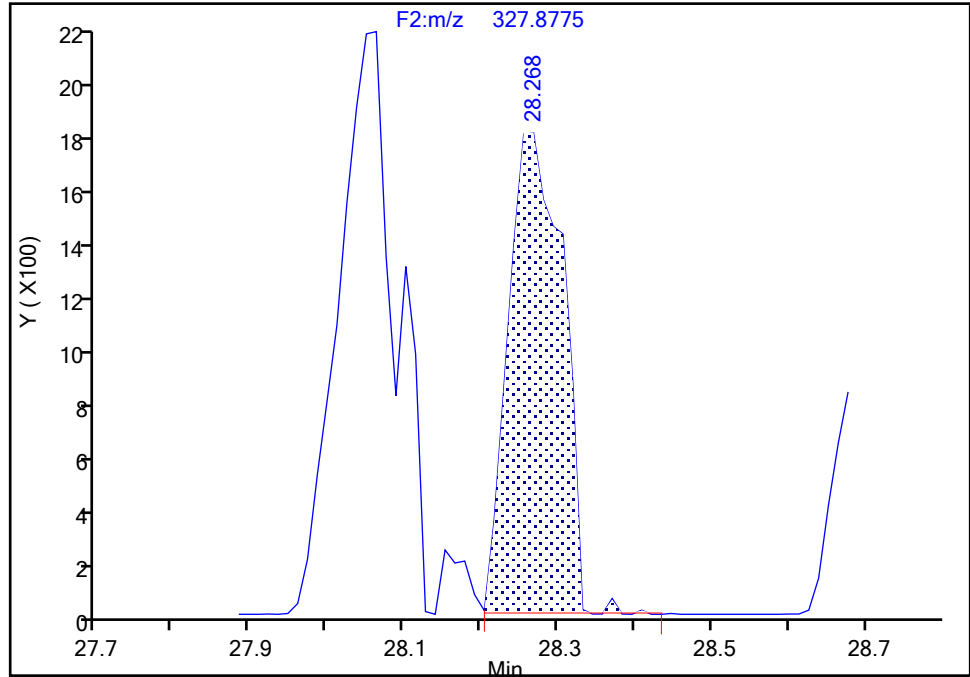
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-94, CAS: 73575-55-0

Signal: 3

RT: 28.28
Area: 27097
Amount: 0.521693
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 28.28
Area: 27753
Amount: 0.523542
Amount Units: pg/ul

Reviewer: V4XA, 31-May-2024 19:30:50 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

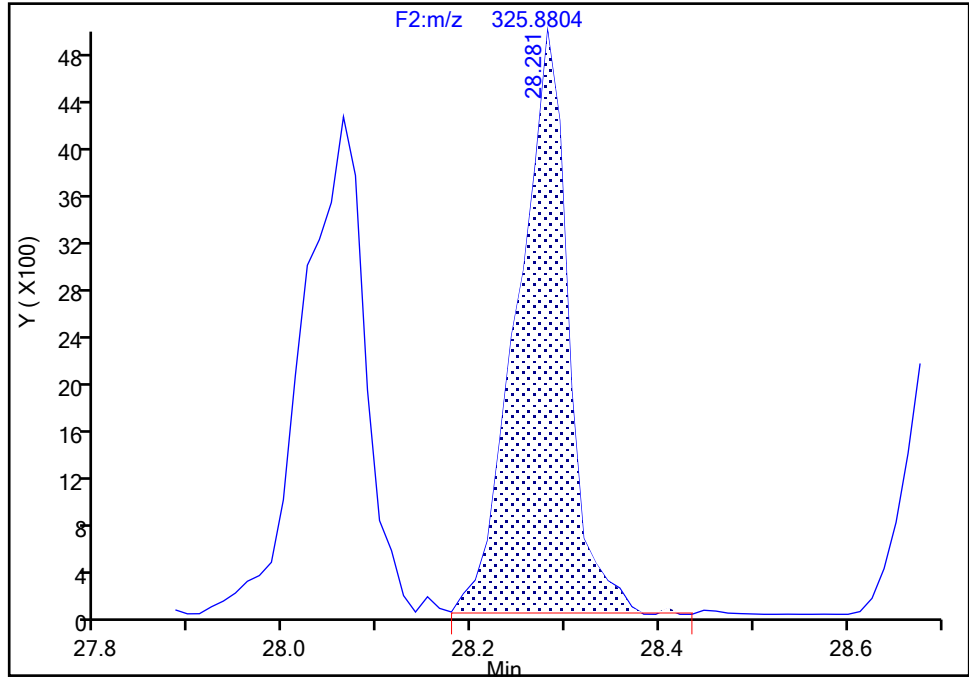
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-94, CAS: 73575-55-0

Signal: 1

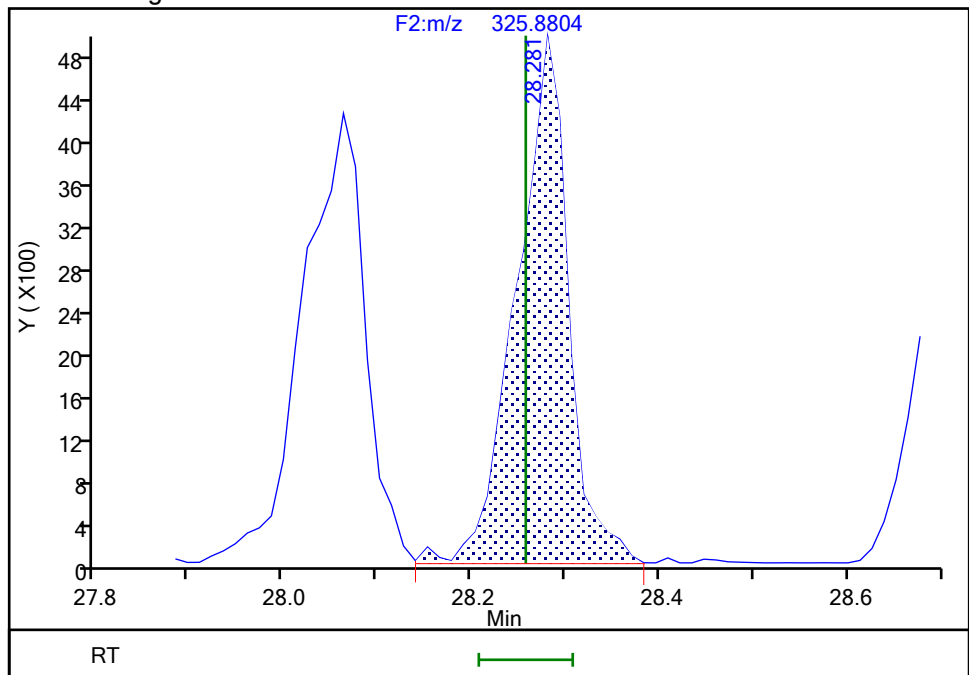
RT: 28.28
Area: 18528
Amount: 0.521693
Amount Units: pg/ul

Processing Integration Results



RT: 28.28
Area: 18701
Amount: 0.523542
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:52 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Eurofins Knoxville

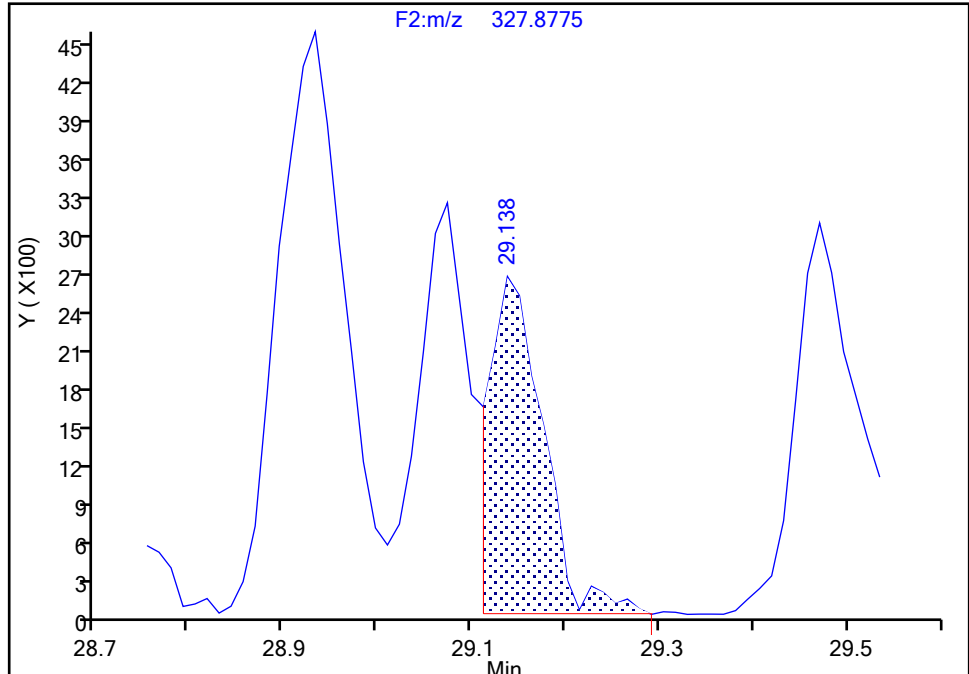
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 2

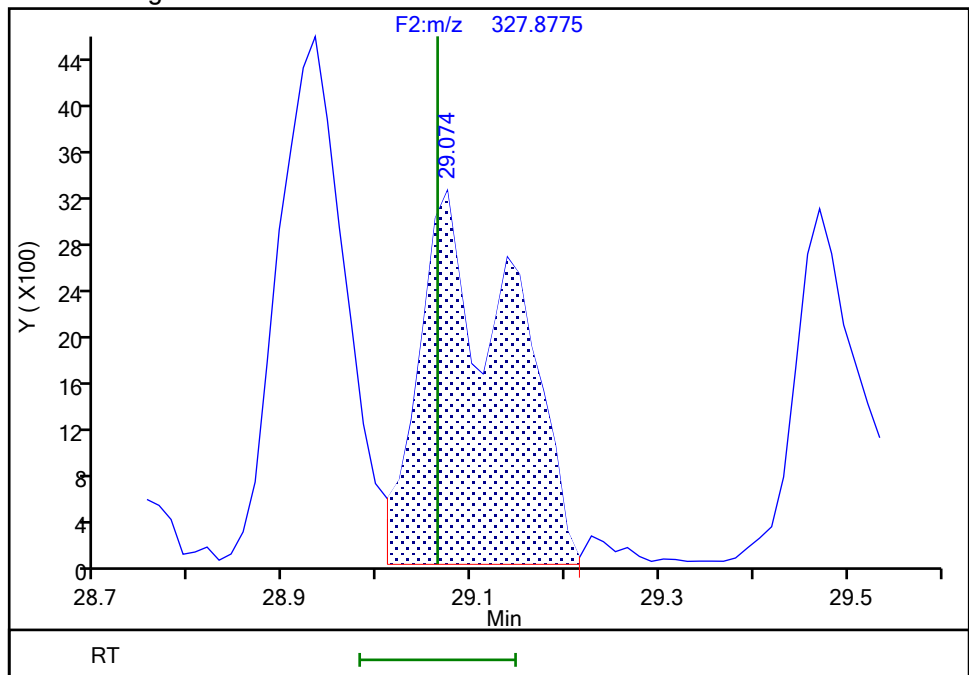
RT: 29.14
Area: 10061
Amount: 0.761342
Amount Units: pg/ul

Processing Integration Results



RT: 29.07
Area: 21429
Amount: 0.999328
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:39:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

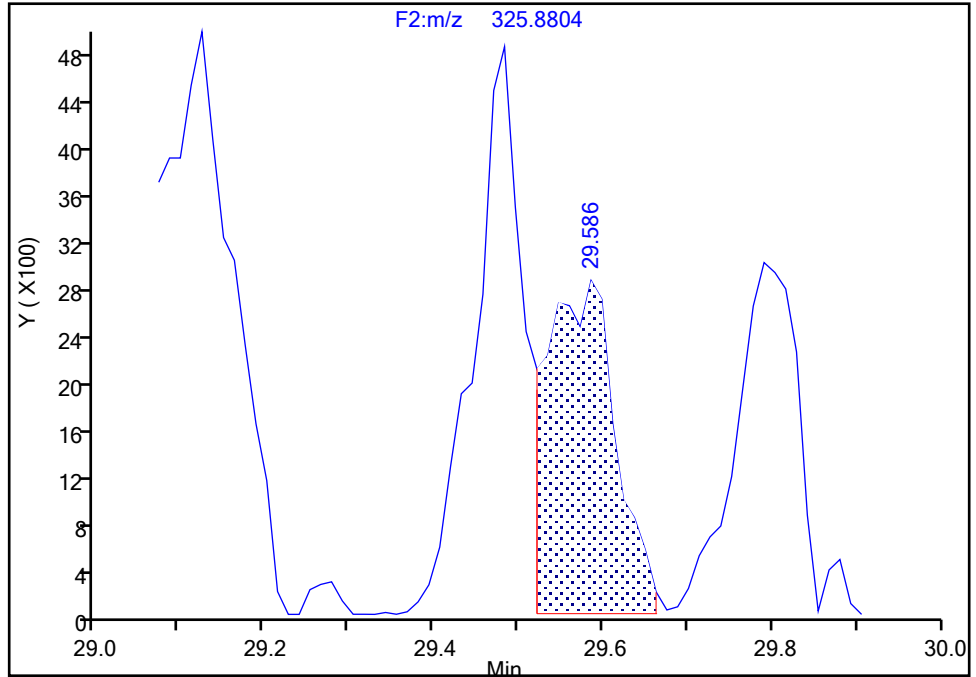
Detector F2(21.81 :35.54)

PCB-88/91, CAS: STL01812

Signal: 1

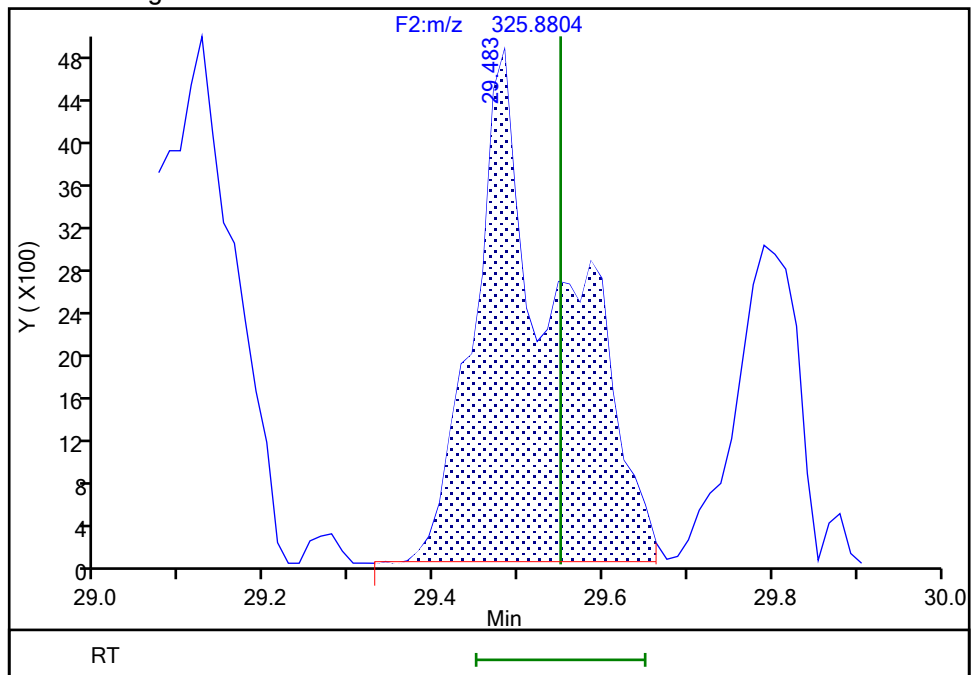
RT: 29.59
Area: 15618
Amount: 0.515955
Amount Units: pg/ul

Processing Integration Results



RT: 29.48
Area: 34391
Amount: 1.044024
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:39:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

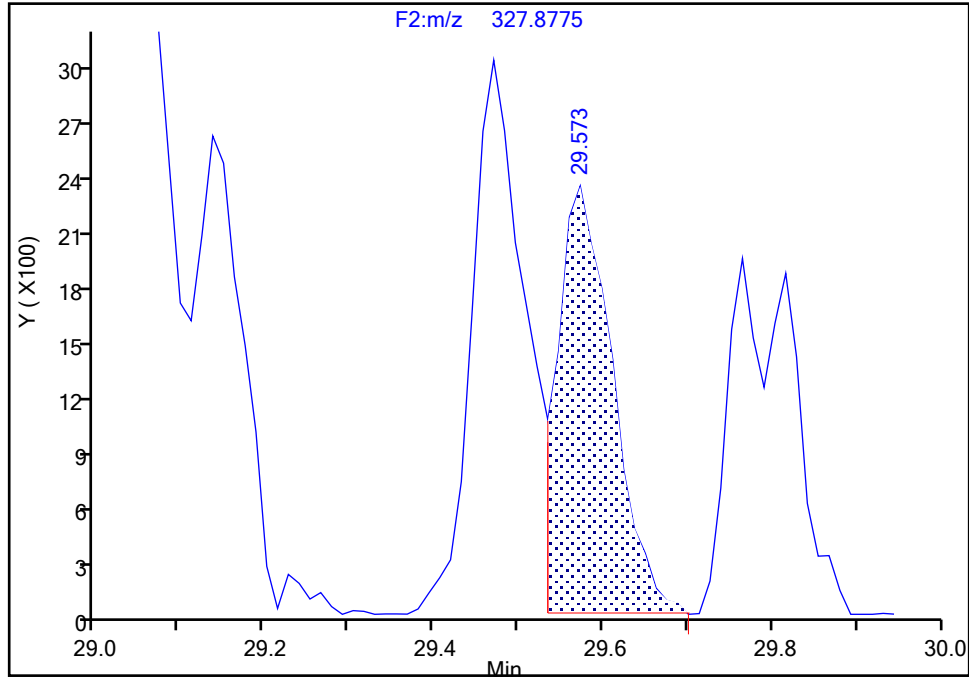
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-88/91, CAS: STL01812

Signal: 2

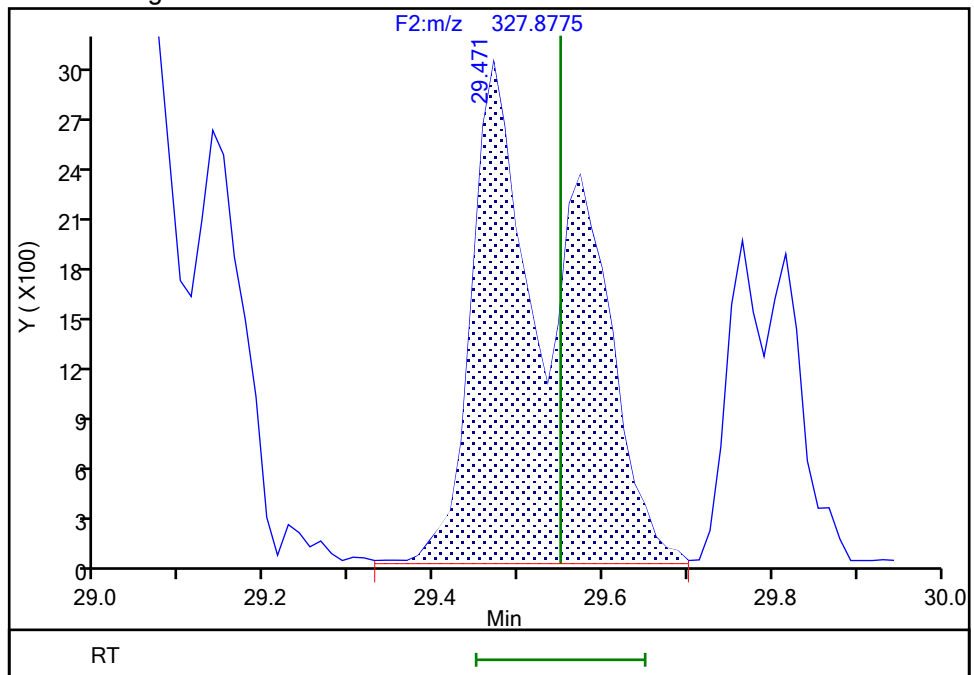
RT: 29.57
Area: 10357
Amount: 0.515955
Amount Units: pg/ul

Processing Integration Results



RT: 29.47
Area: 23653
Amount: 1.044024
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:39:42 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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9/6/2024 2:43:26 PM
BASFHWC-G01520243139

Eurofins Knoxville

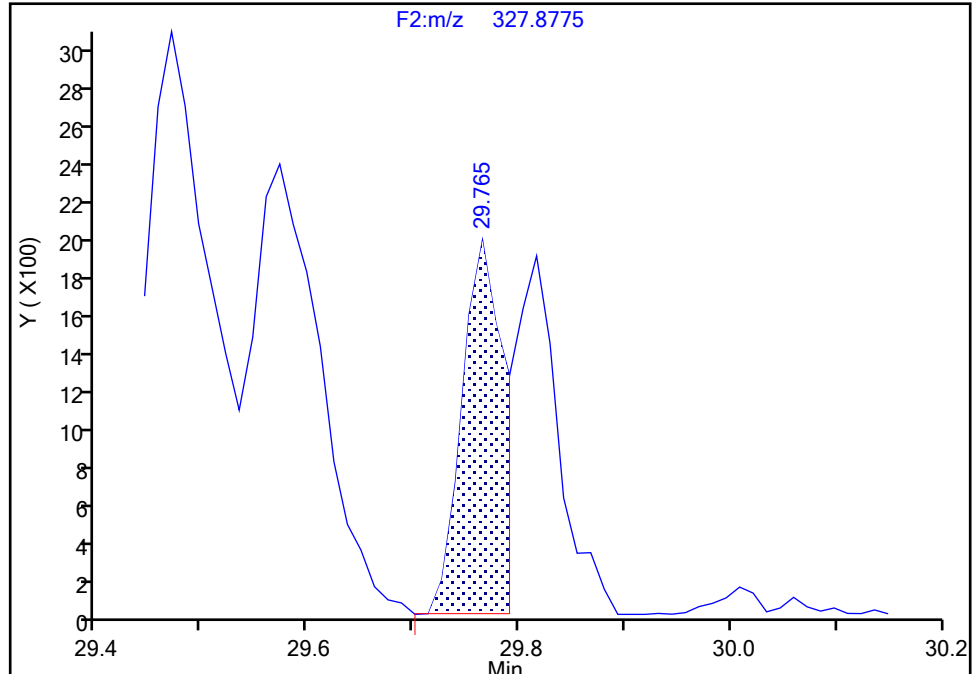
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-84, CAS: 52663-60-2

Signal: 2

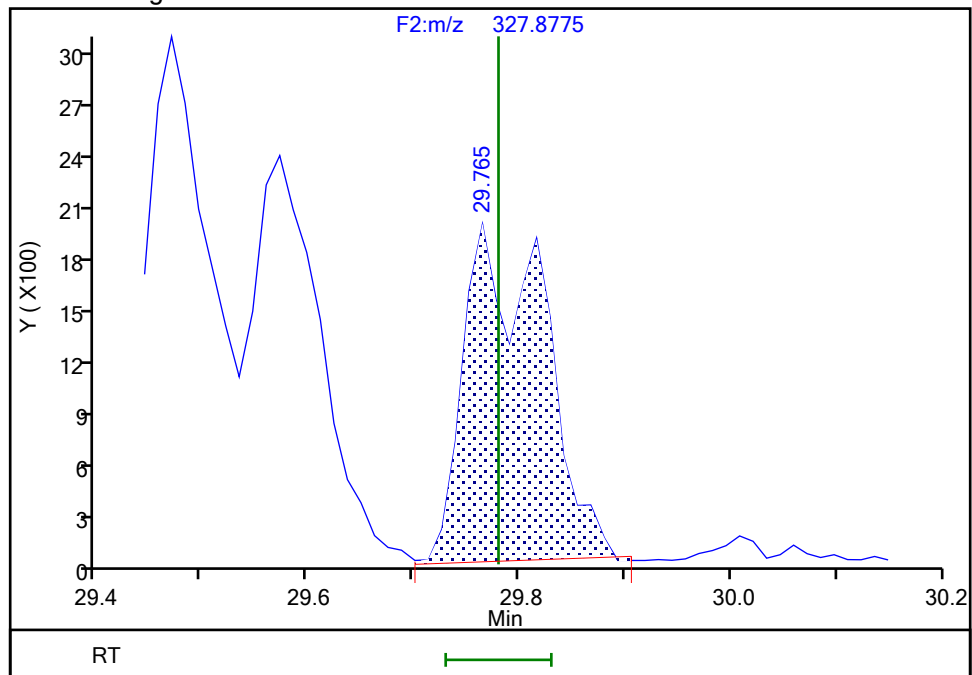
RT: 29.76
Area: 4970
Amount: 0.427934
Amount Units: pg/ul

Processing Integration Results



RT: 29.76
Area: 10134
Amount: 0.496810
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:39:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

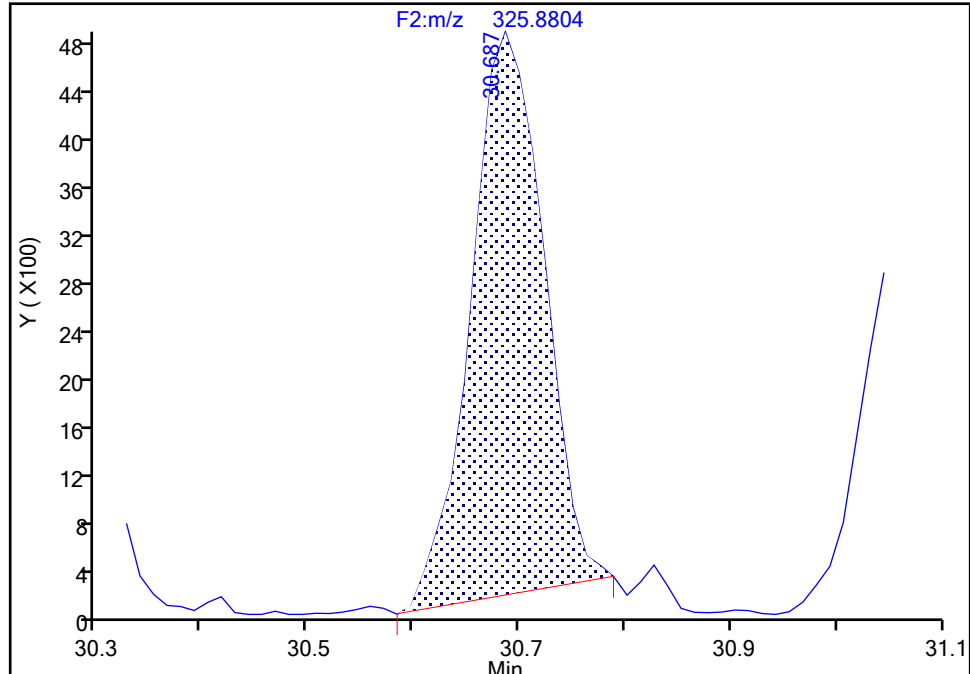
Detector F2(21.81 :35.54)

PCB-121, CAS: 56558-18-0

Signal: 1

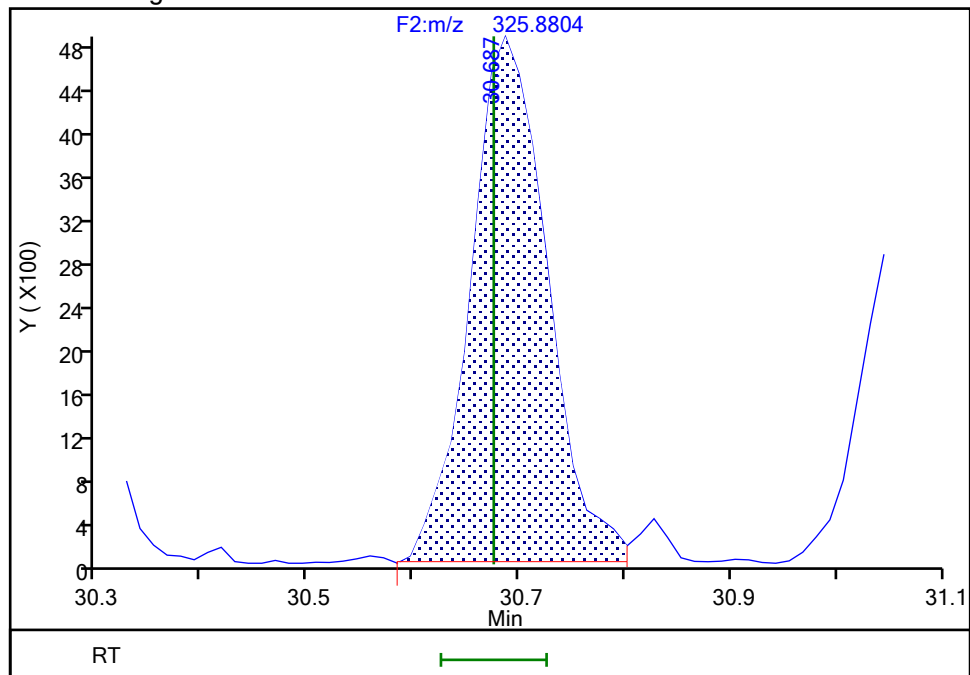
RT: 30.69
Area: 22370
Amount: 0.468205
Amount Units: pg/ul

Processing Integration Results



RT: 30.69
Area: 24350
Amount: 0.482931
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:40:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

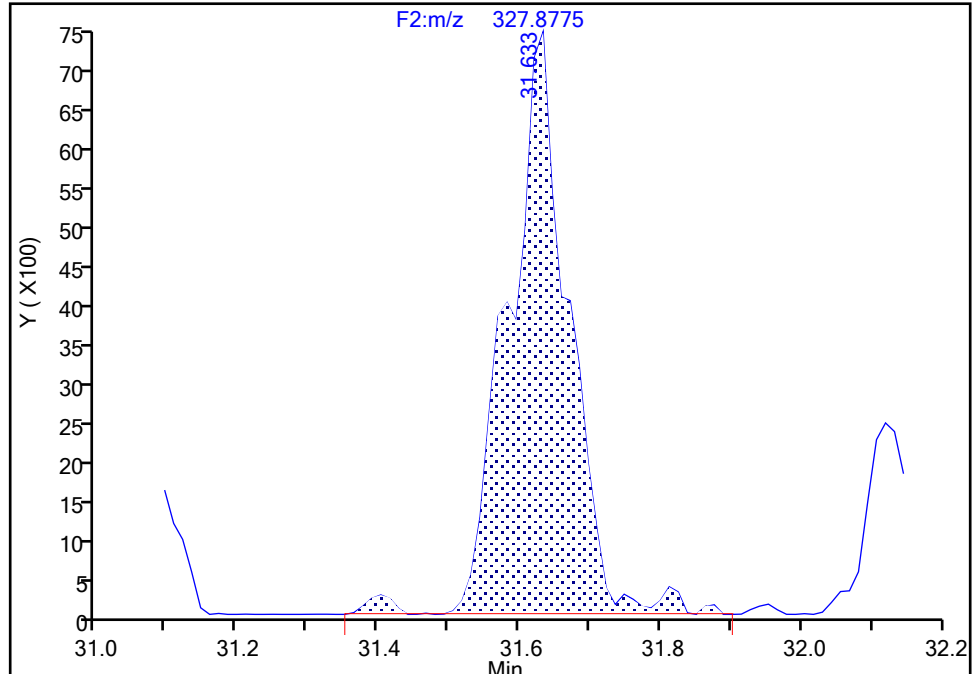
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-90/101/113, CAS: STL01813

Signal: 2

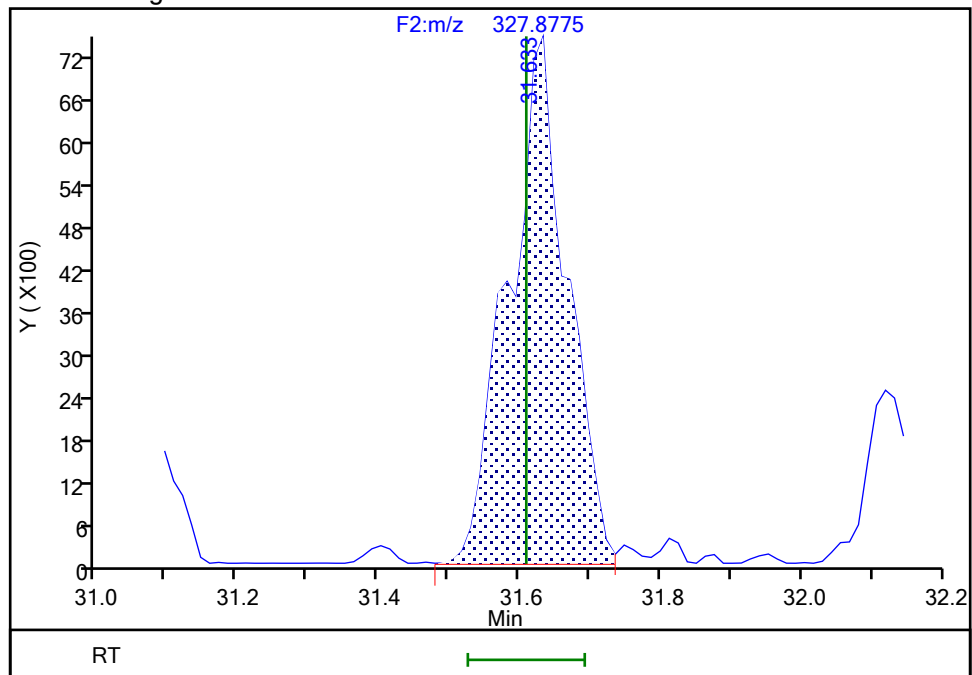
RT: 31.63
Area: 44490
Amount: 1.511719
Amount Units: pg/ul

Processing Integration Results



RT: 31.63
Area: 42490
Amount: 1.490119
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:29:15 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

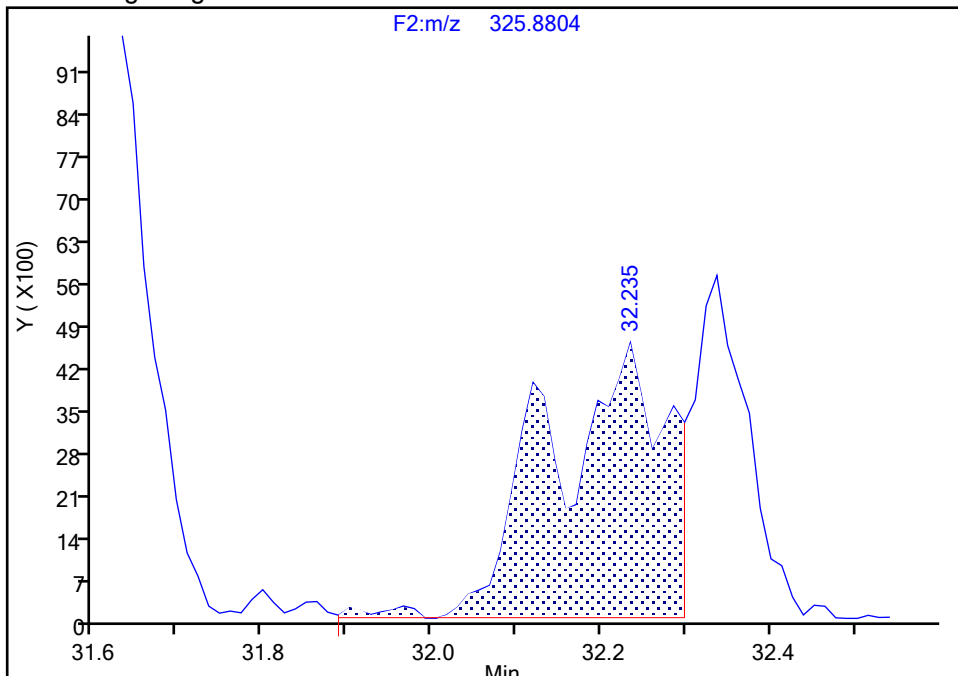
Audit Reason: Split Peak

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d		
Injection Date:	31-May-2024 14:36:00	Instrument ID:	D2D
Lims ID:	IC L1		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl (0.25 mm)	Detector	F2(21.81 :35.54

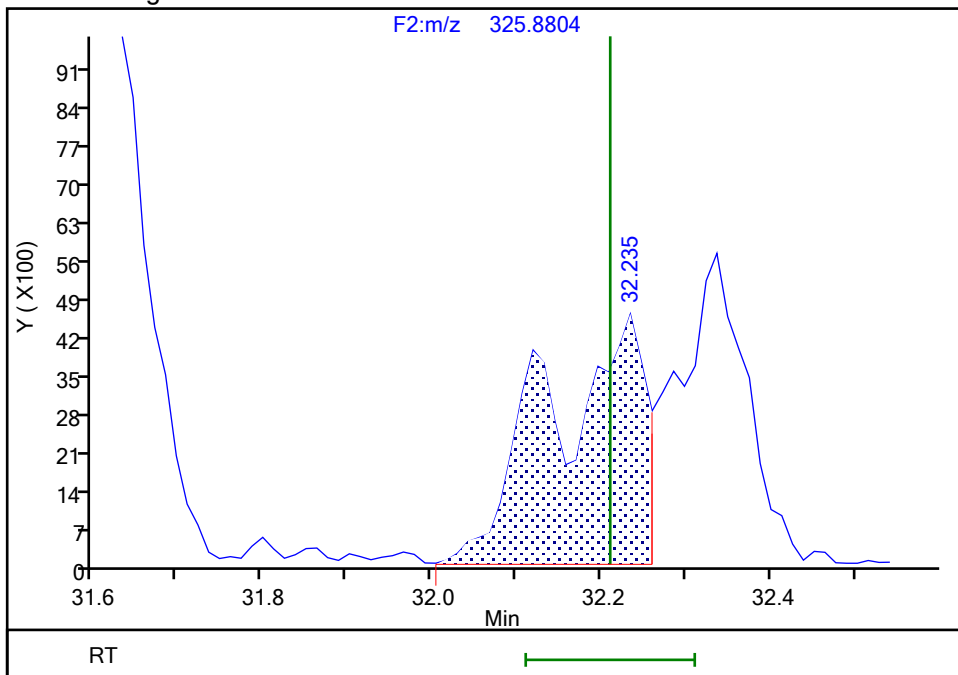
ALS Bottle#: 0 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: HR - EPA_23 PCB ICAL
Detector F2(21.81 :35.54)

Signal: 1

RT: 32.23
Area: 42856
Amount: 1.064486
Amount Units: pg/ul



RT: 32.23
Area: 34703
Amount: 0.994053
Amount Units: pg/ul



Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

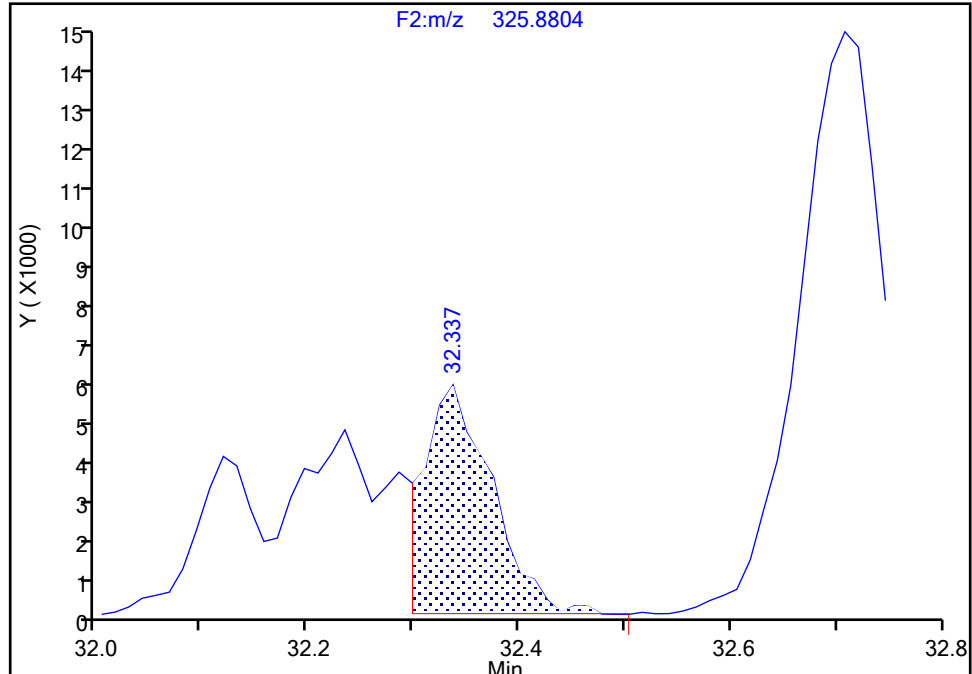
Detector F2(21.81 :35.54)

PCB-112, CAS: 74472-36-9

Signal: 1

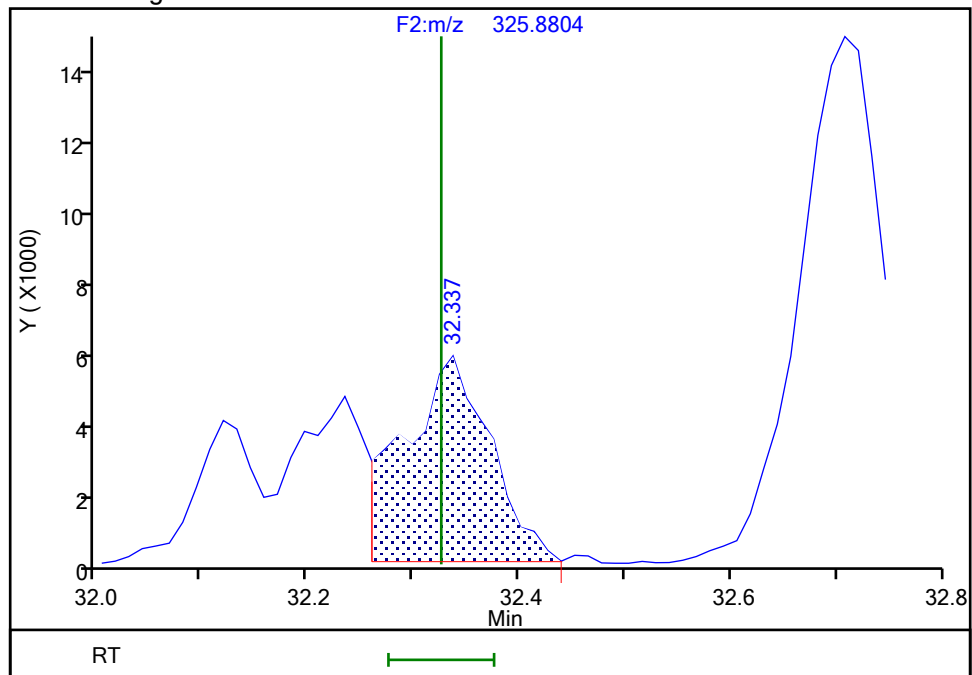
RT: 32.34
Area: 24777
Amount: 0.434584
Amount Units: pg/ul

Processing Integration Results



RT: 32.34
Area: 31739
Amount: 0.511852
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

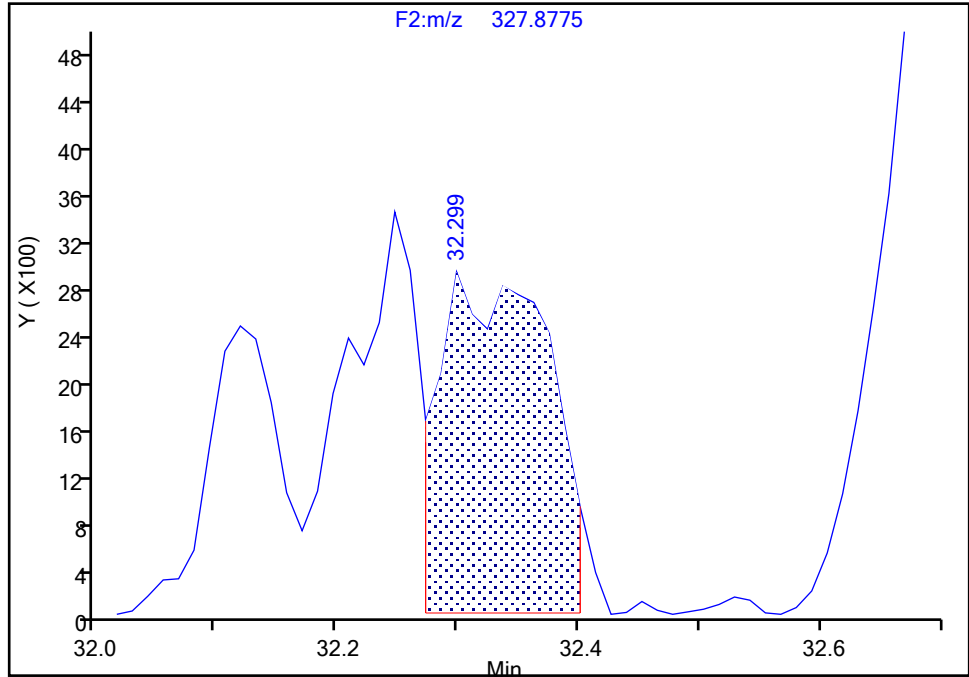
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-112, CAS: 74472-36-9

Signal: 2

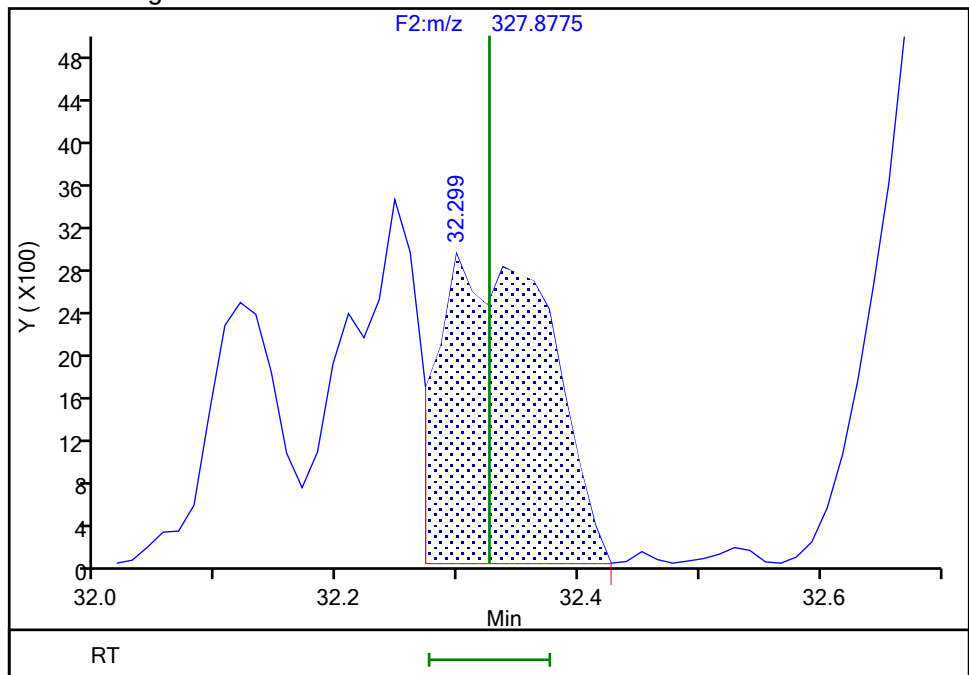
RT: 32.30
Area: 17821
Amount: 0.434584
Amount Units: pg/ul

Processing Integration Results



RT: 32.30
Area: 18375
Amount: 0.511852
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-012-2024-03145
9/6/2024
2:43:26 PM

Eurofins Knoxville

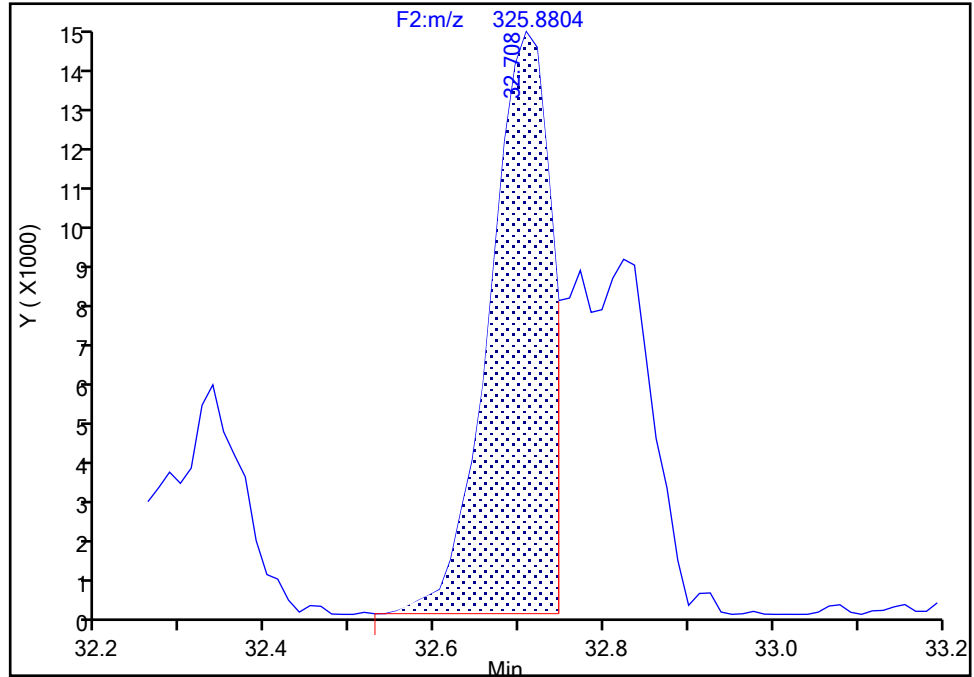
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

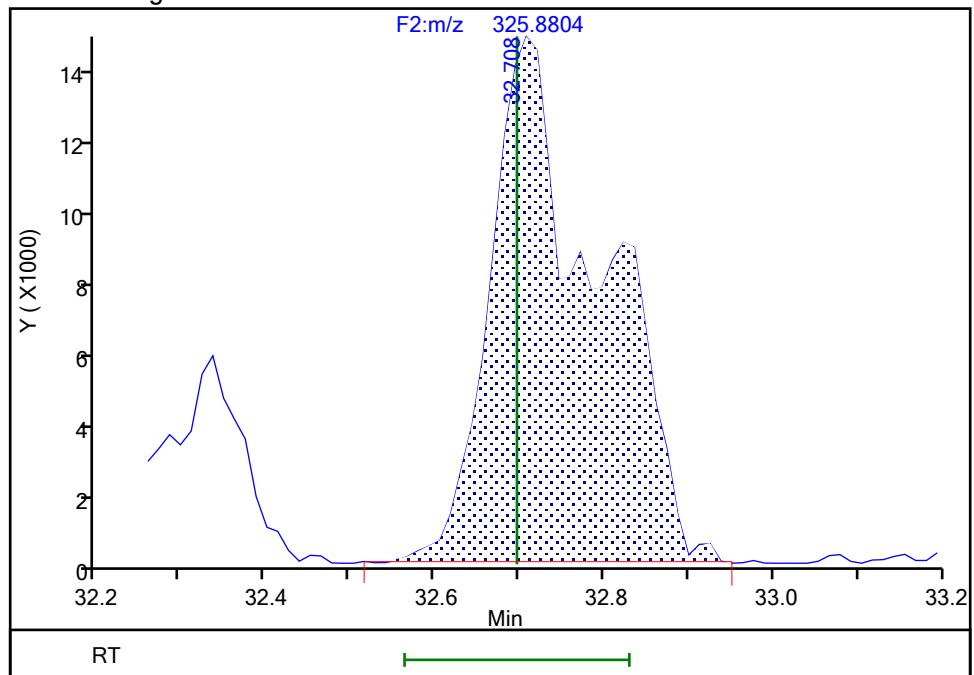
RT: 32.71
Area: 70637
Amount: 1.876000
Amount Units: pg/ul

Processing Integration Results



RT: 32.71
Area: 129704
Amount: 2.908707
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:40:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

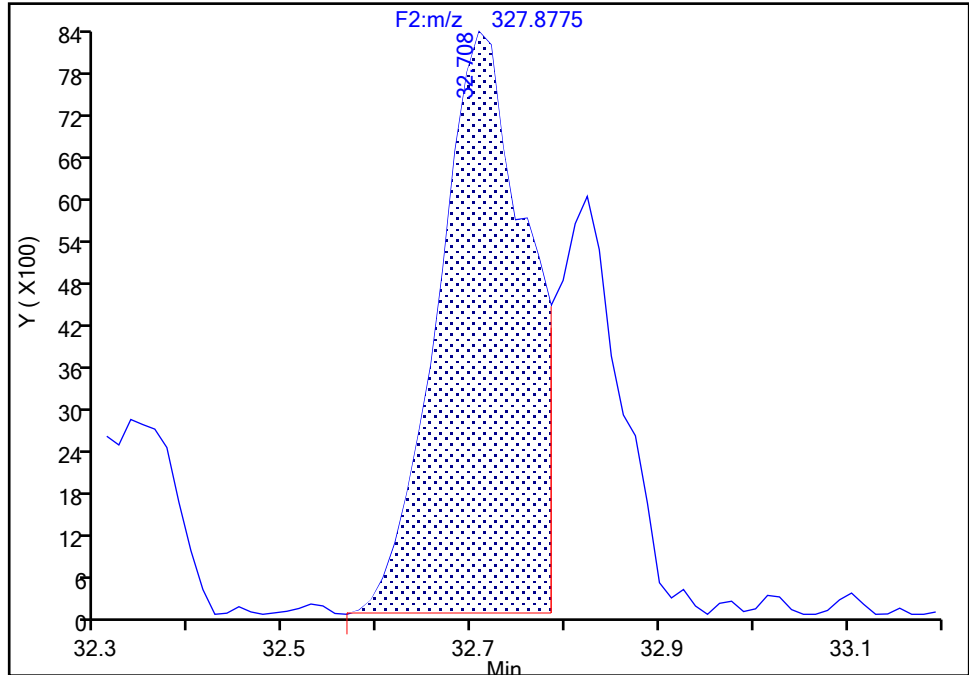
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

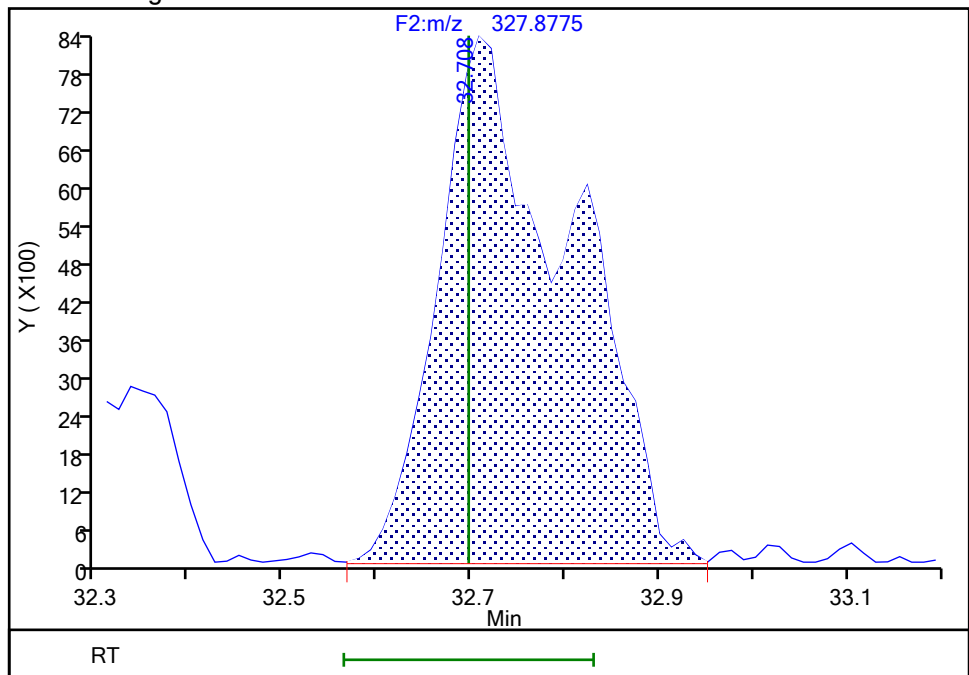
RT: 32.71
Area: 54041
Amount: 1.876000
Amount Units: pg/ul

Processing Integration Results



RT: 32.71
Area: 81652
Amount: 2.908707
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:40:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

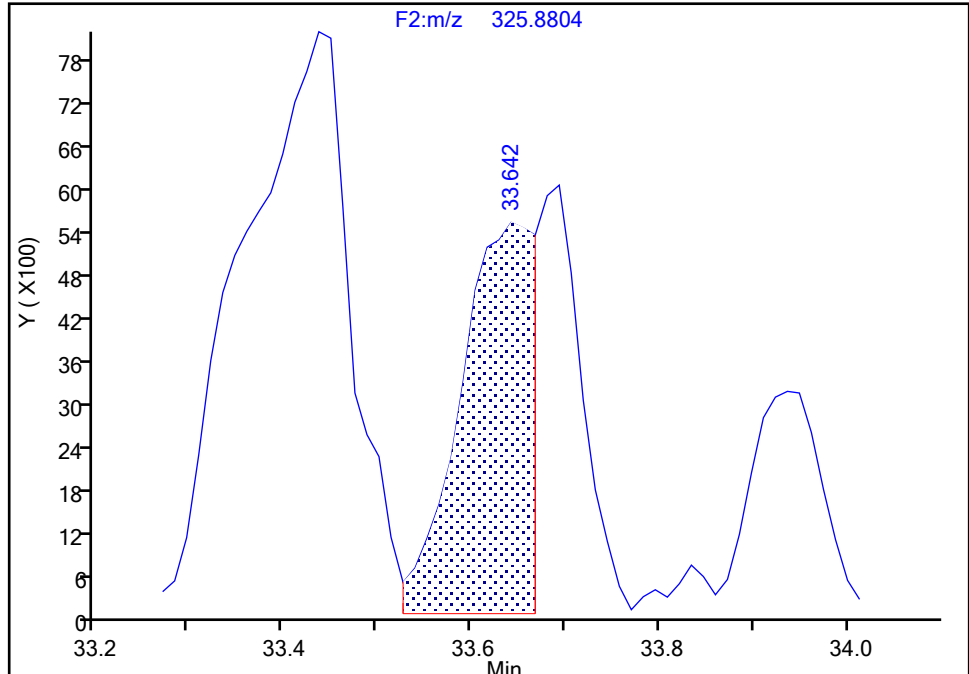
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-110/115, CAS: STL01826

Signal: 1

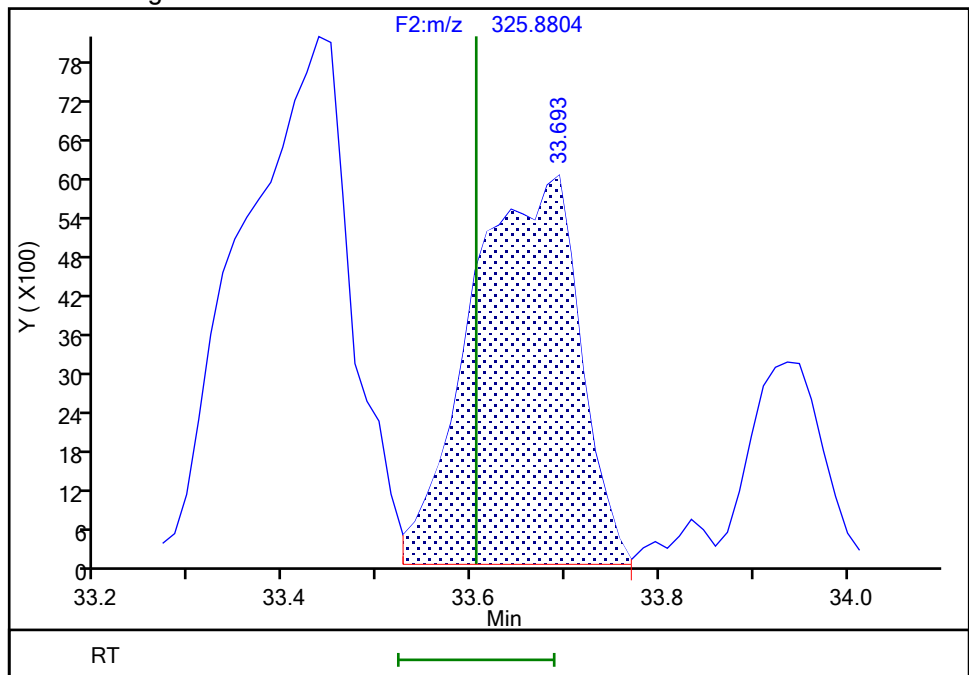
RT: 33.64
Area: 28653
Amount: 0.718077
Amount Units: pg/ul

Processing Integration Results



RT: 33.69
Area: 48048
Amount: 1.008427
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:40:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

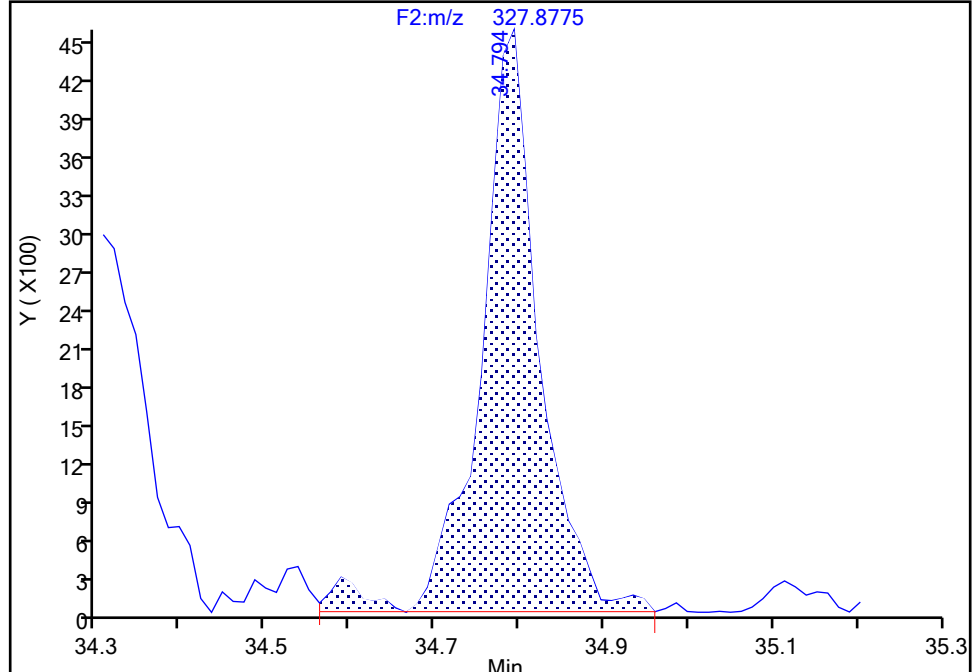
Detector F2(21.81 :35.54)

PCB-120, CAS: 68194-12-7

Signal: 2

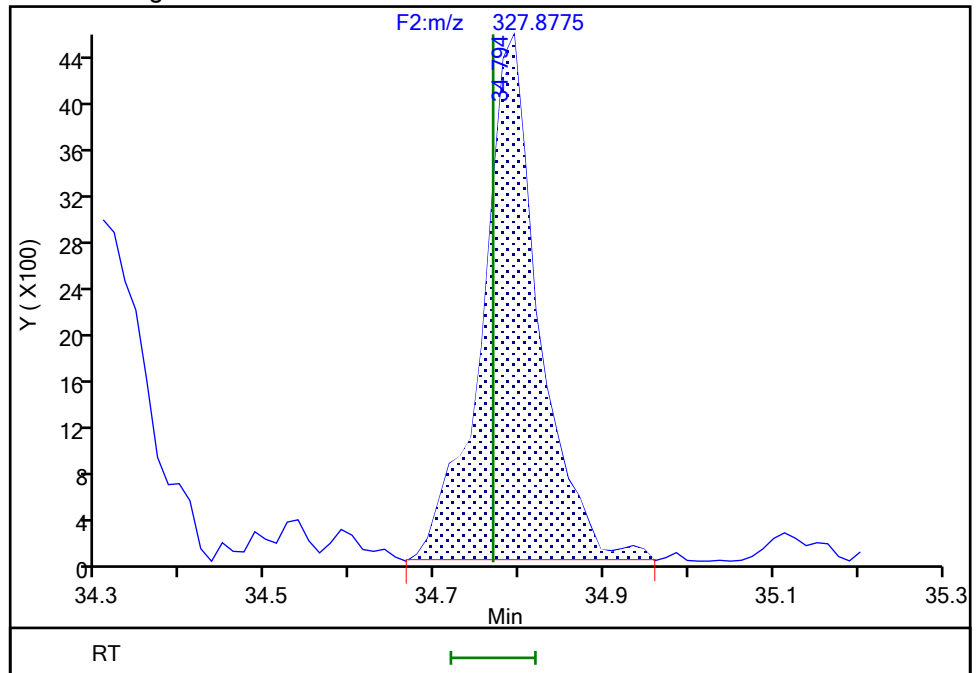
RT: 34.79
Area: 21979
Amount: 0.514083
Amount Units: pg/ul

Processing Integration Results



RT: 34.79
Area: 21230
Amount: 0.518058
Amount Units: pg/ul

Manual Integration Results

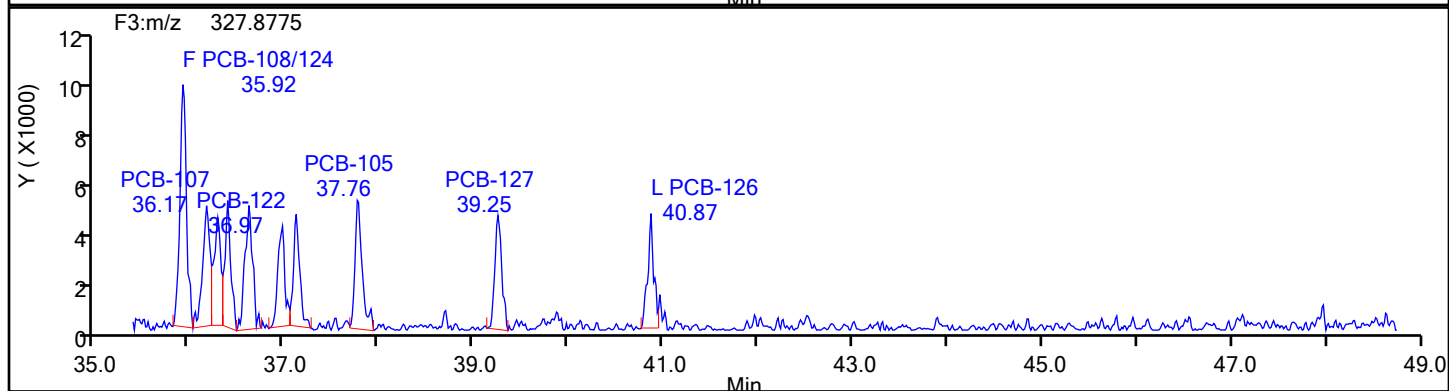


Reviewer: V4XA, 31-May-2024 21:31:07 -04:00:00 (UTC)

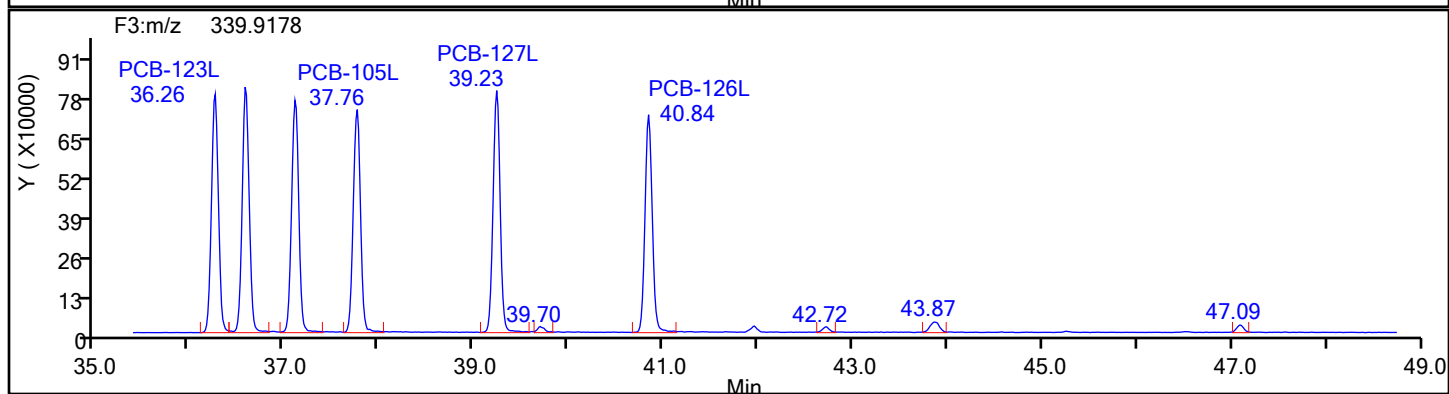
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Column Dia: 0.25 mm



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

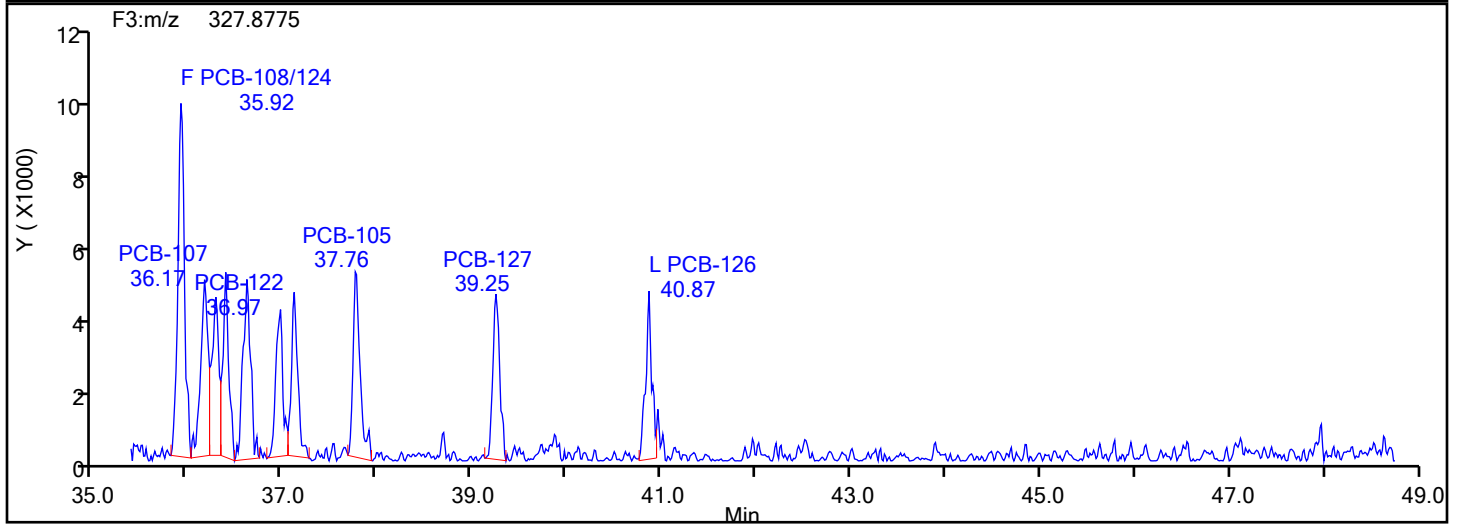
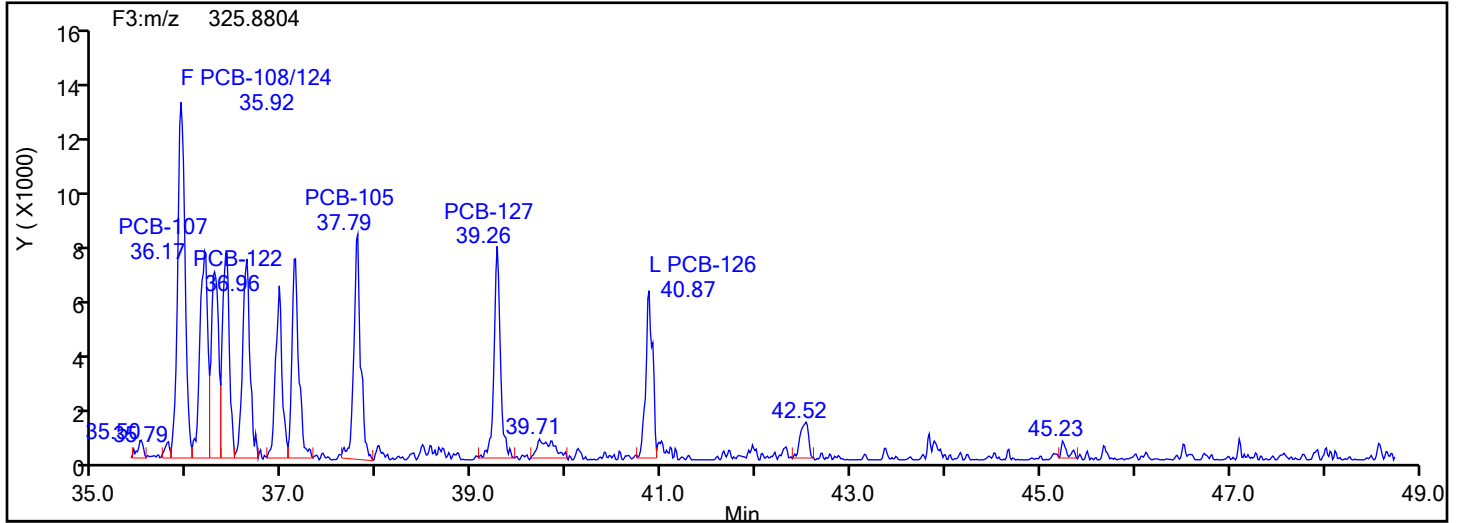
Worklist#: 87130

Sample Line#: 1

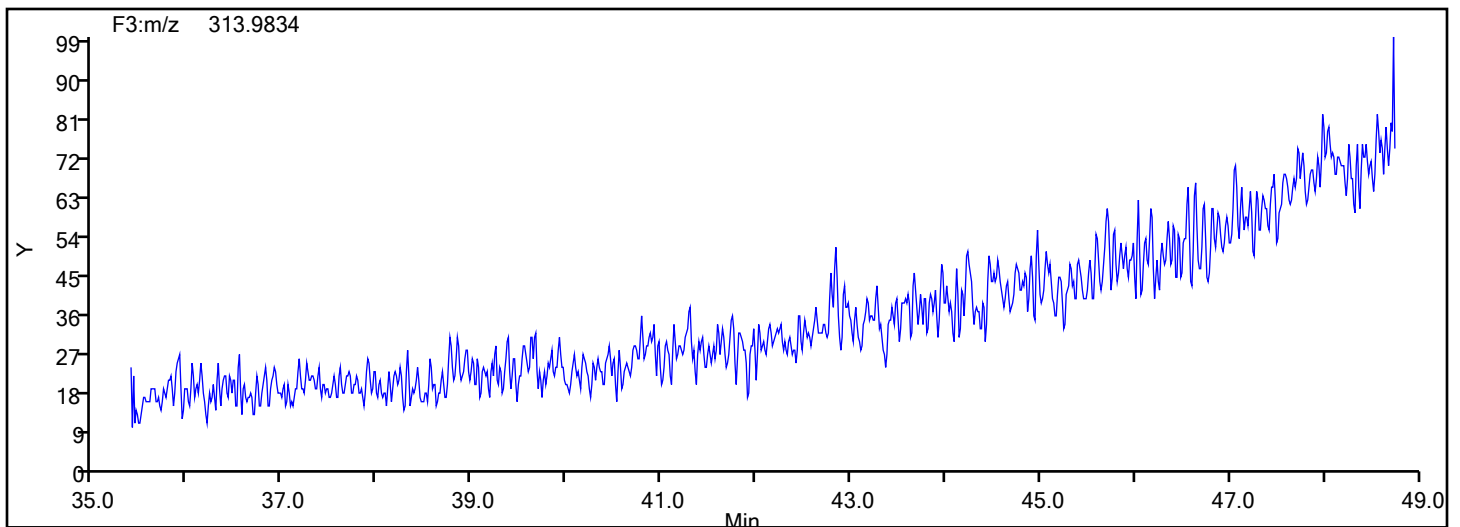
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

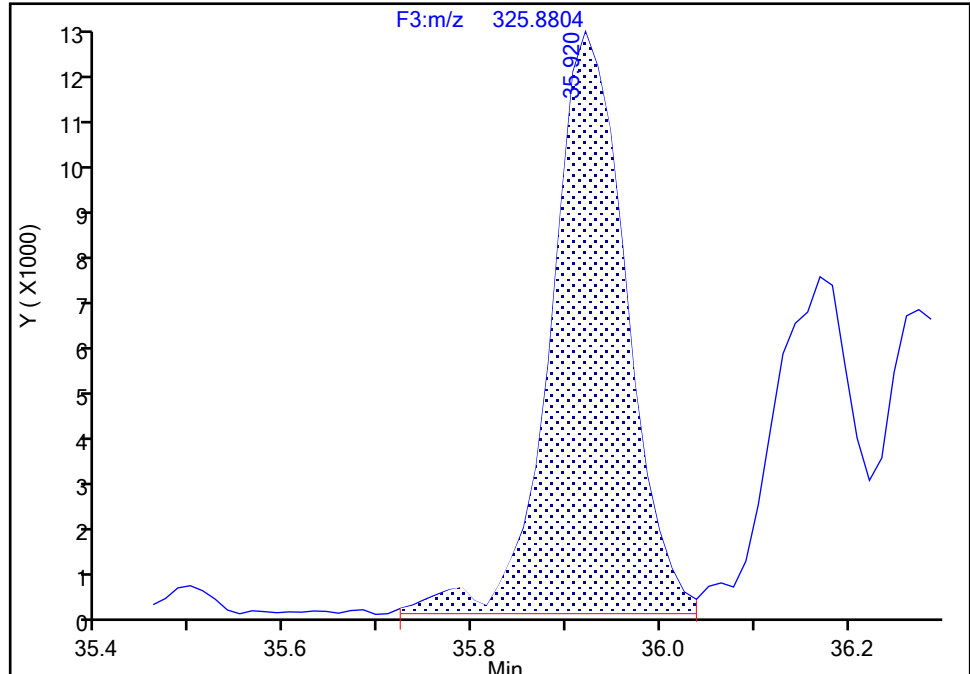
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-108/124, CAS: STL02294

Signal: 1

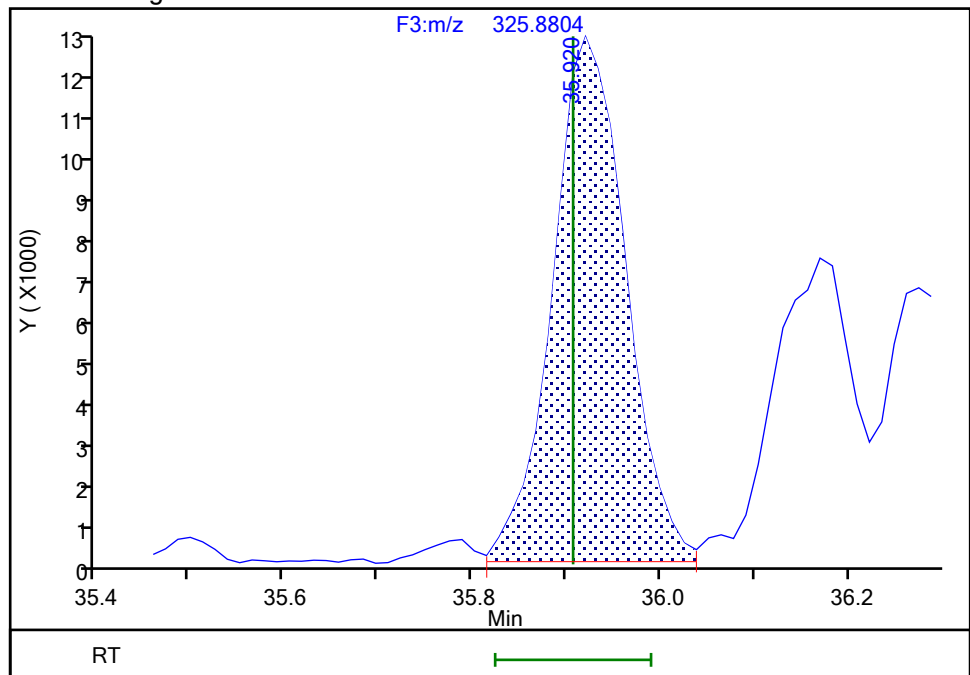
RT: 35.92
Area: 71057
Amount: 1.000854
Amount Units: pg/ul

Processing Integration Results



RT: 35.92
Area: 69109
Amount: 0.968568
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:31:14 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

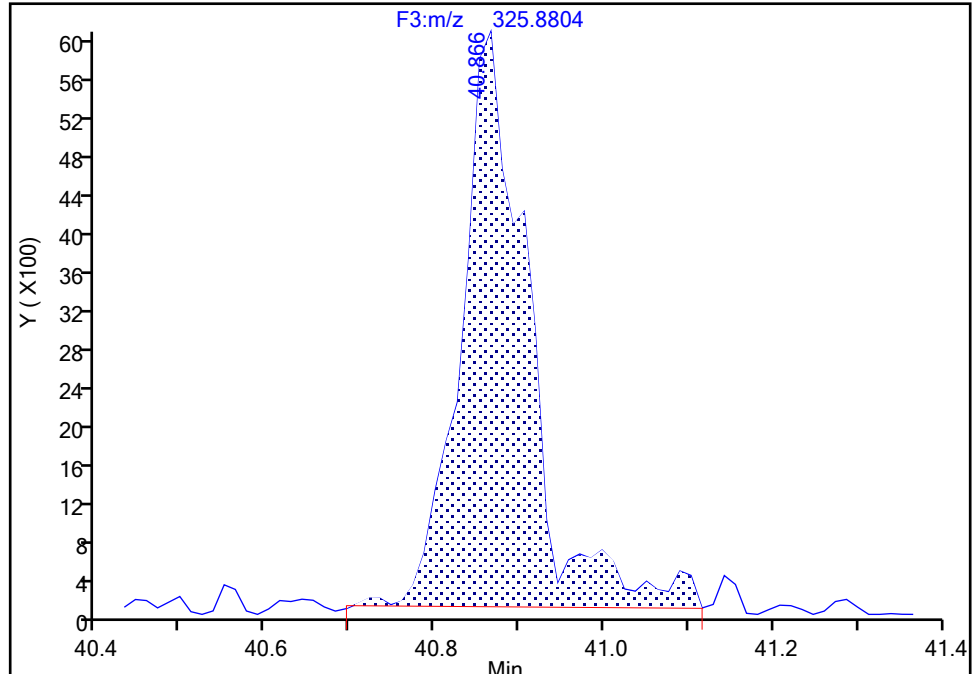
Detector F3(35.64 :49.10)

PCB-126, CAS: 57465-28-8

Signal: 1

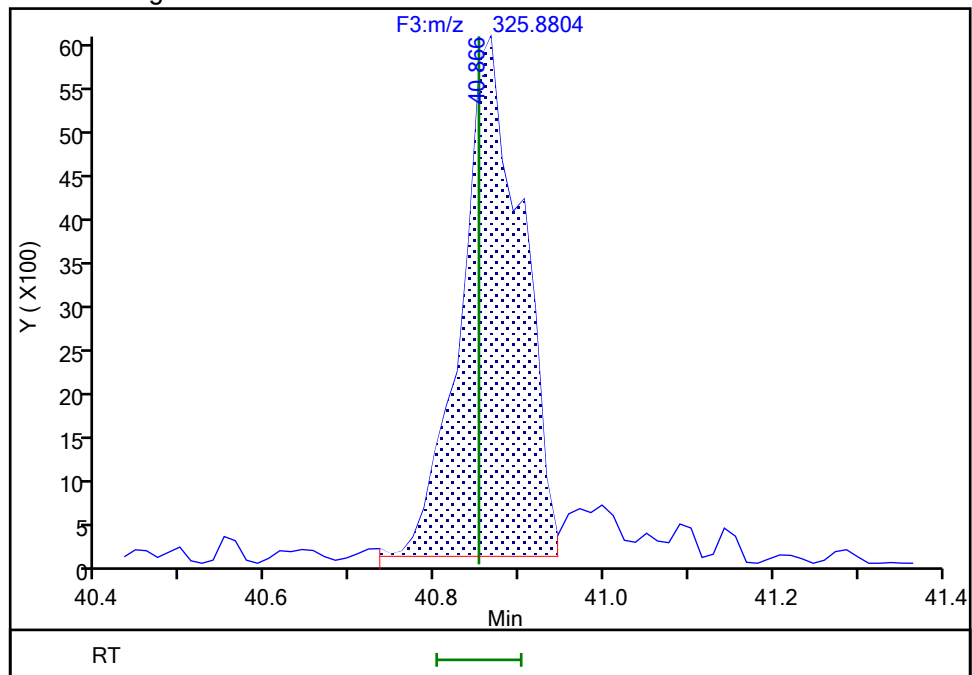
RT: 40.87
Area: 33362
Amount: 0.463722
Amount Units: pg/ul

Processing Integration Results



RT: 40.87
Area: 29722
Amount: 0.453490
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:41:43 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

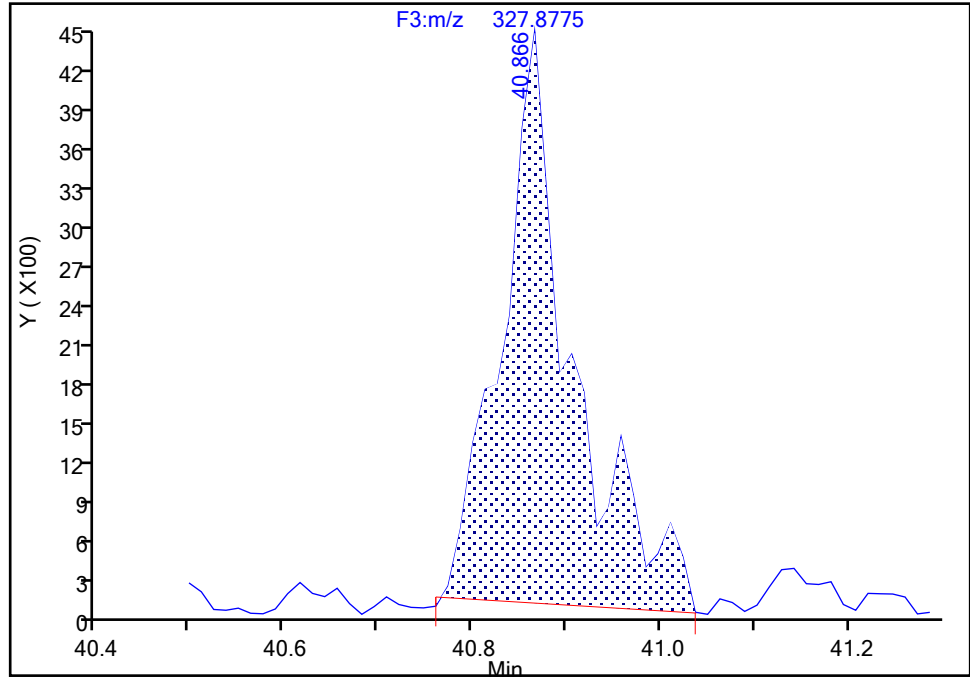
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-126, CAS: 57465-28-8

Signal: 2

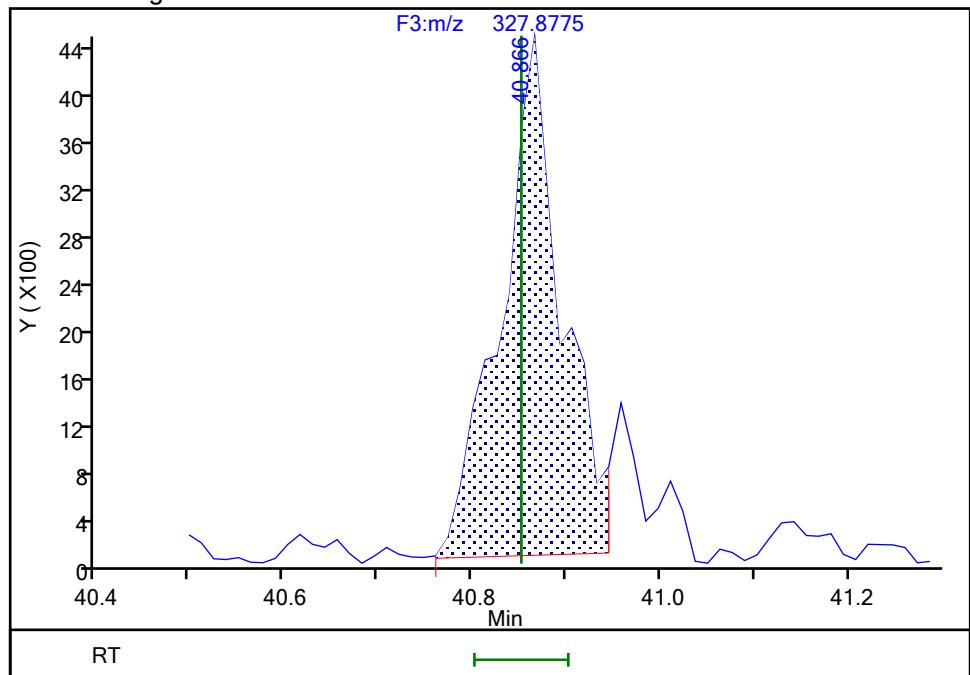
RT: 40.87
Area: 22952
Amount: 0.463722
Amount Units: pg/ul

Processing Integration Results



RT: 40.87
Area: 19848
Amount: 0.453490
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:41:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024
2:43:26 PM
BASFHWC-G...3154

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

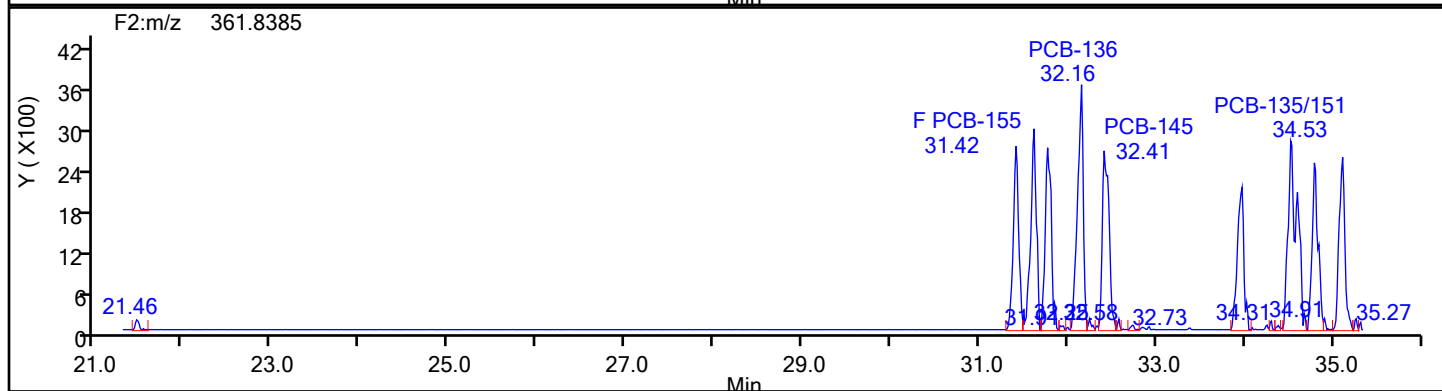
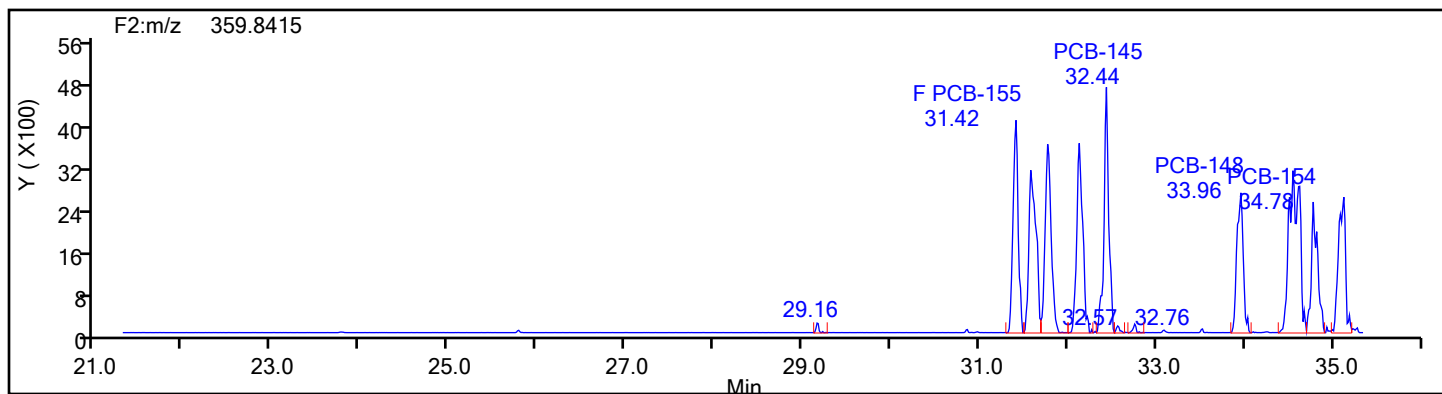
Worklist#: 87130

Sample Line#: 1

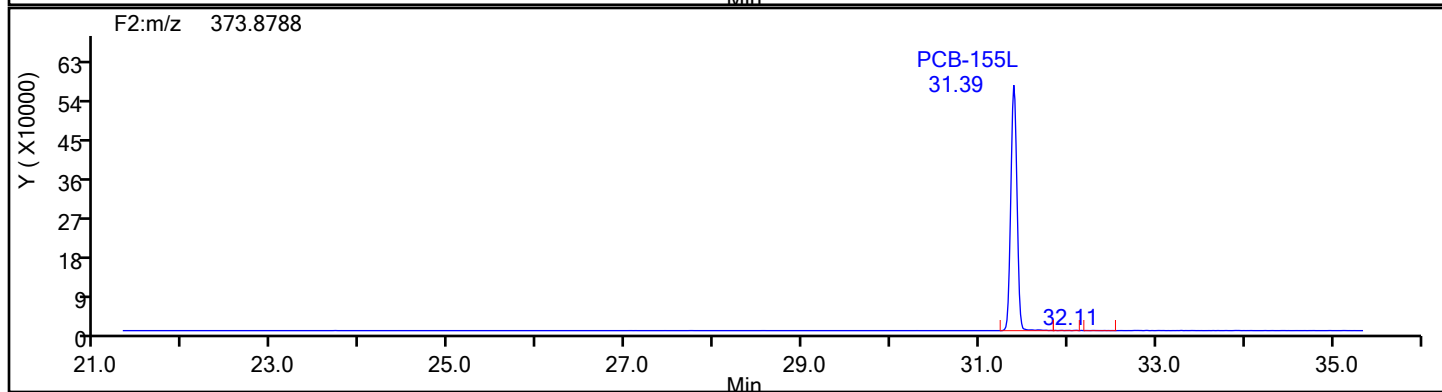
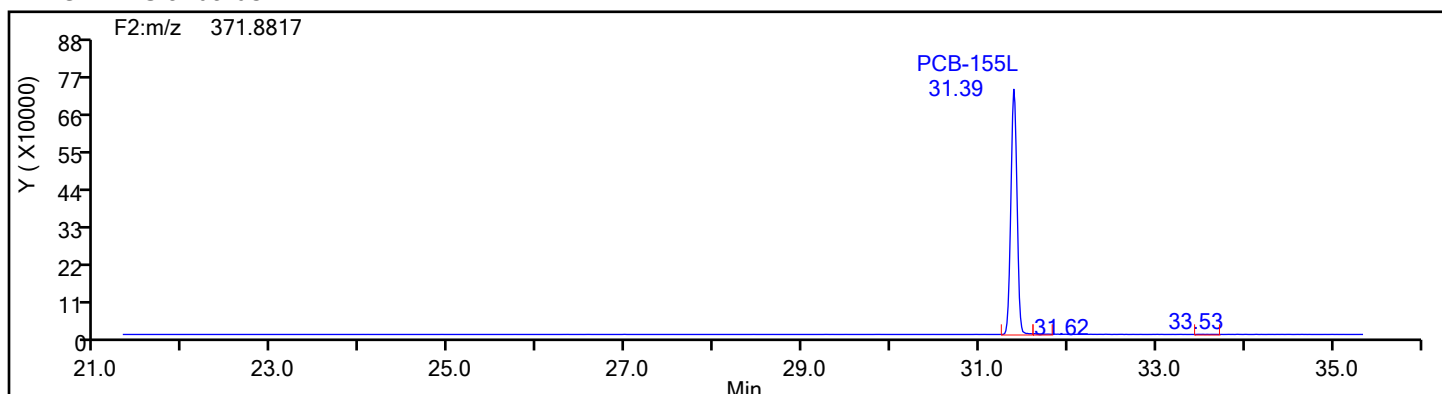
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Vol: 1.0 ul

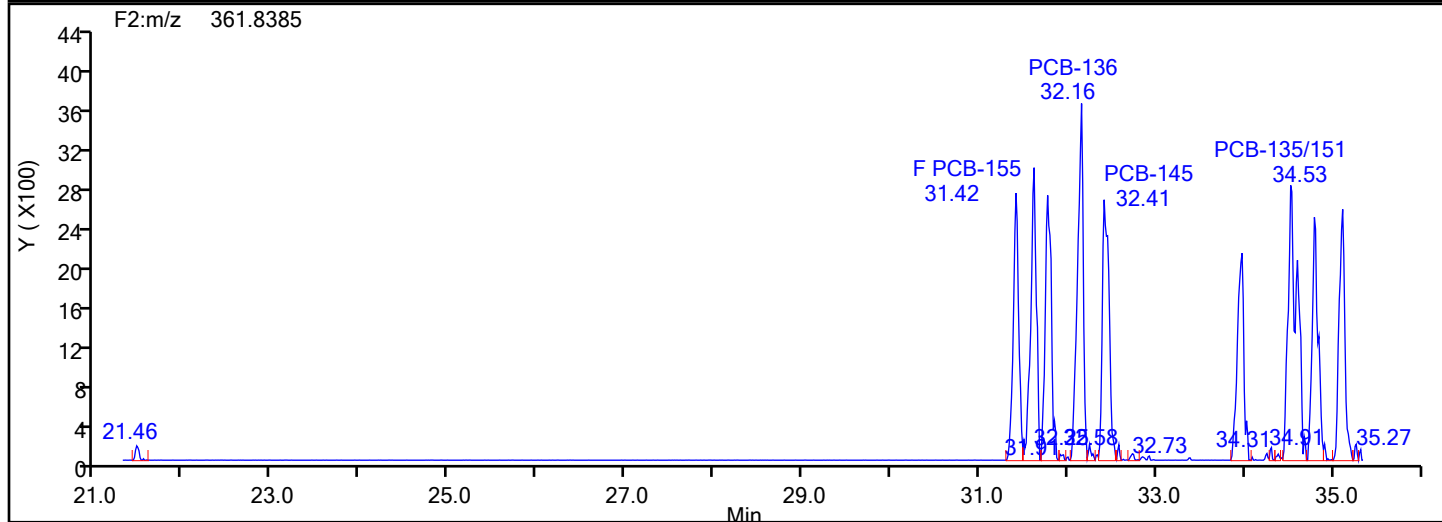
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

Sample Line#:

Column Dia: 0.25 mm

HxPCB F2



Eurofins Knoxville

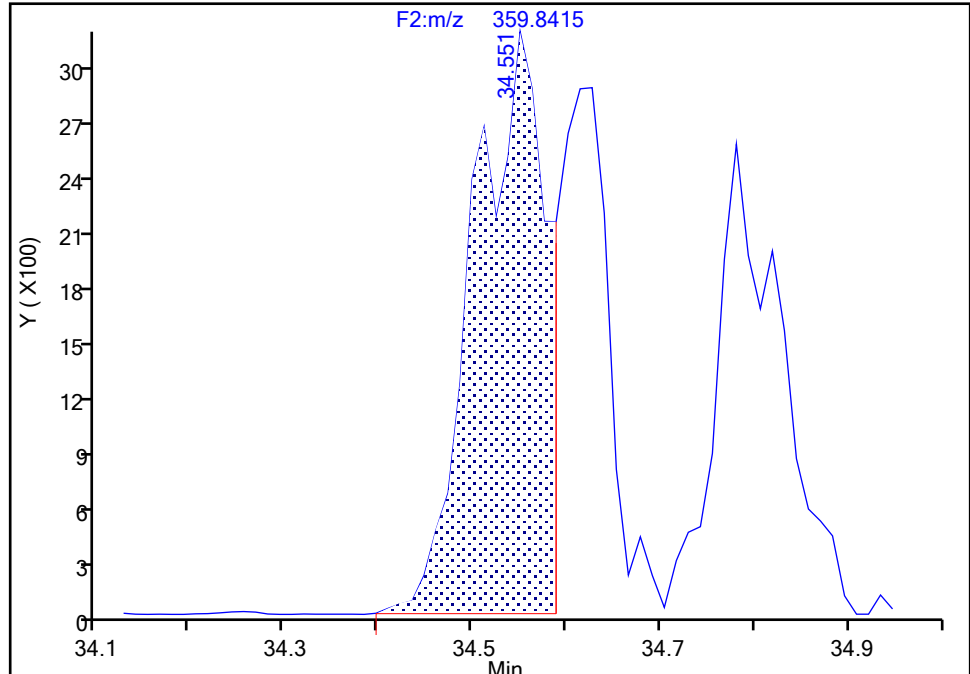
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

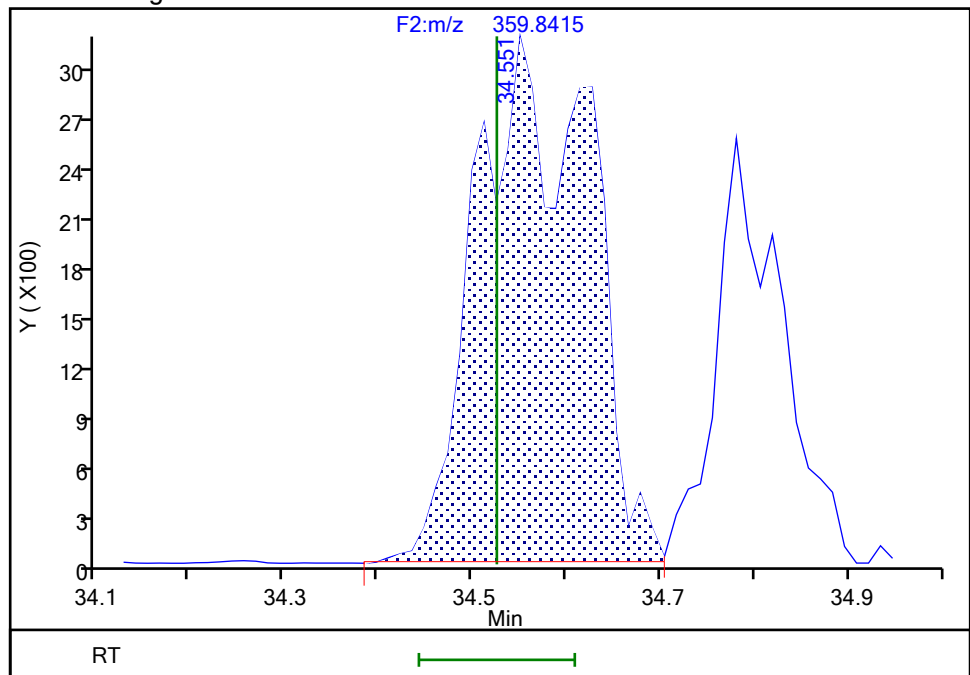
RT: 34.55
Area: 16255
Amount: 0.654016
Amount Units: pg/ul

Processing Integration Results



RT: 34.55
Area: 26170
Amount: 1.004069
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:42:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

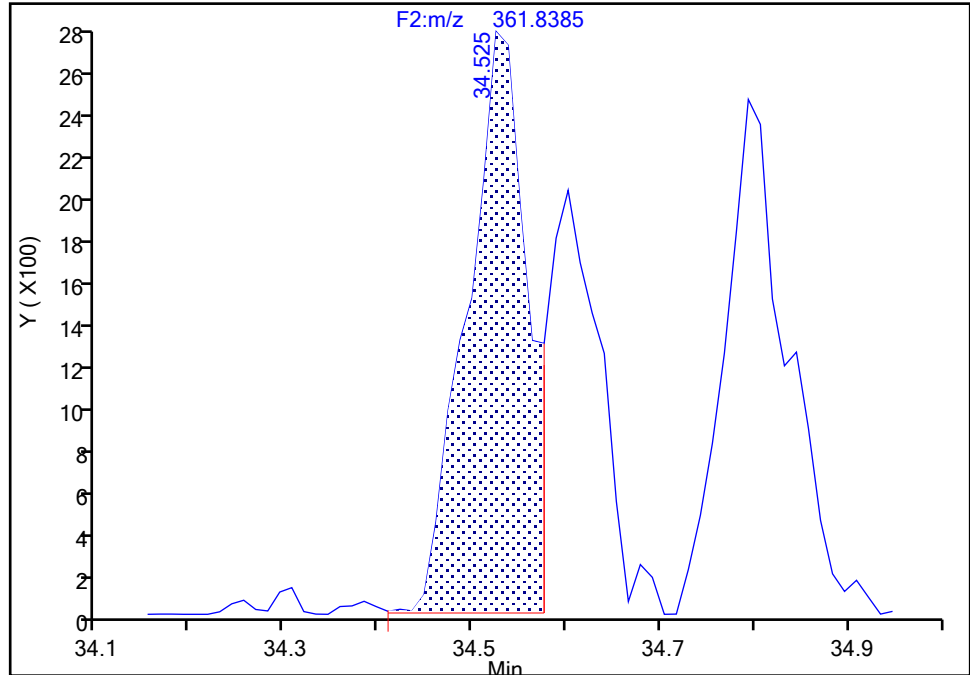
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

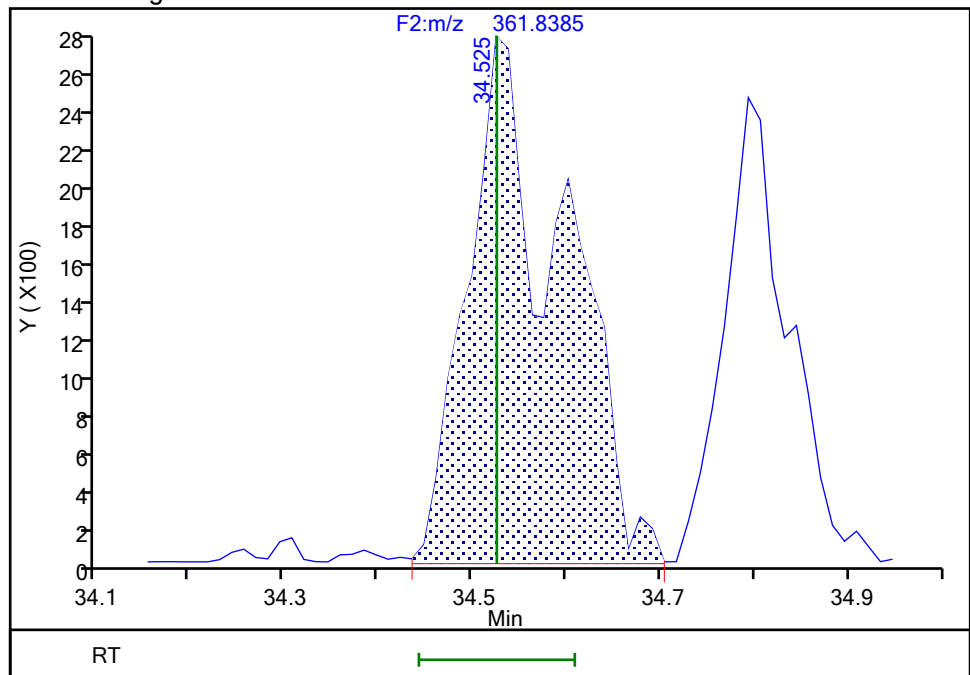
RT: 34.53
Area: 12145
Amount: 0.654016
Amount Units: pg/ul

Processing Integration Results



RT: 34.53
Area: 19780
Amount: 1.004069
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:42:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

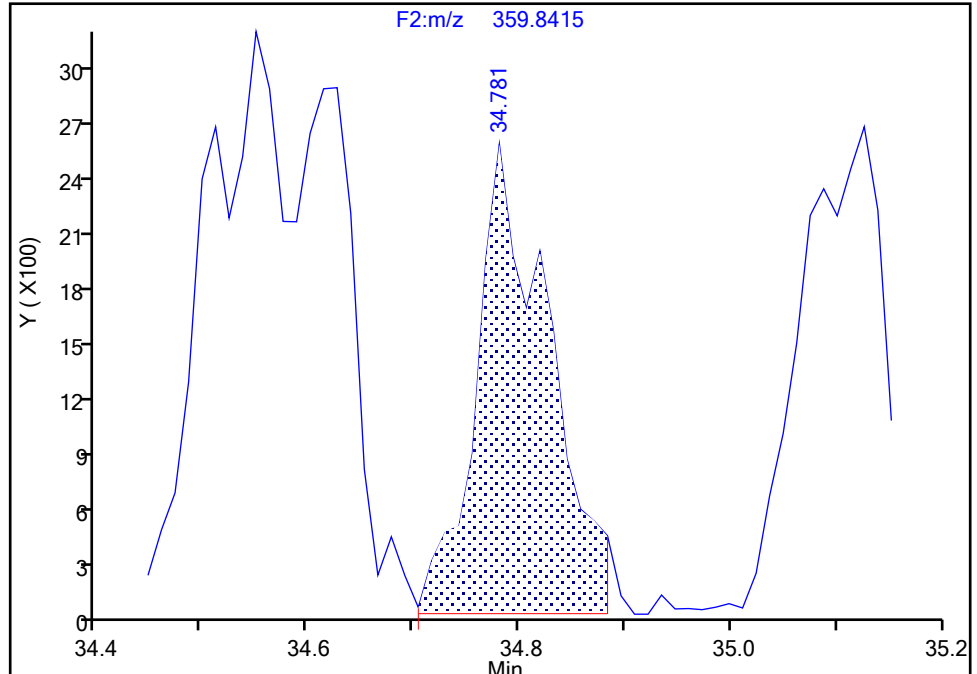
Detector F2(21.81 :35.54)

PCB-154, CAS: 60145-22-4

Signal: 1

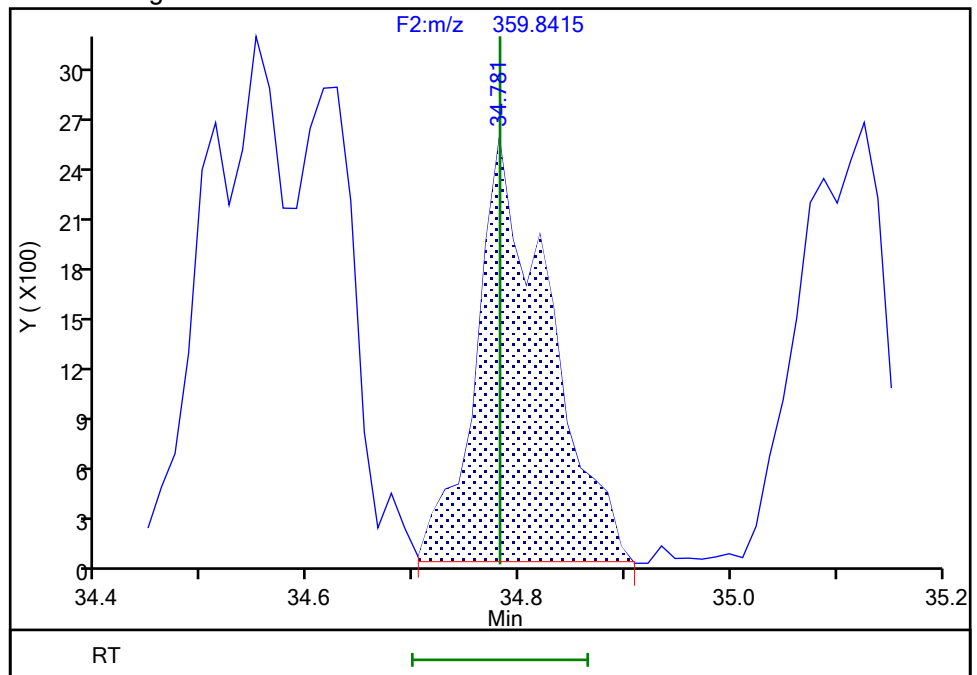
RT: 34.78
Area: 11920
Amount: 0.454148
Amount Units: pg/ul

Processing Integration Results



RT: 34.78
Area: 11960
Amount: 0.455849
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:31:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

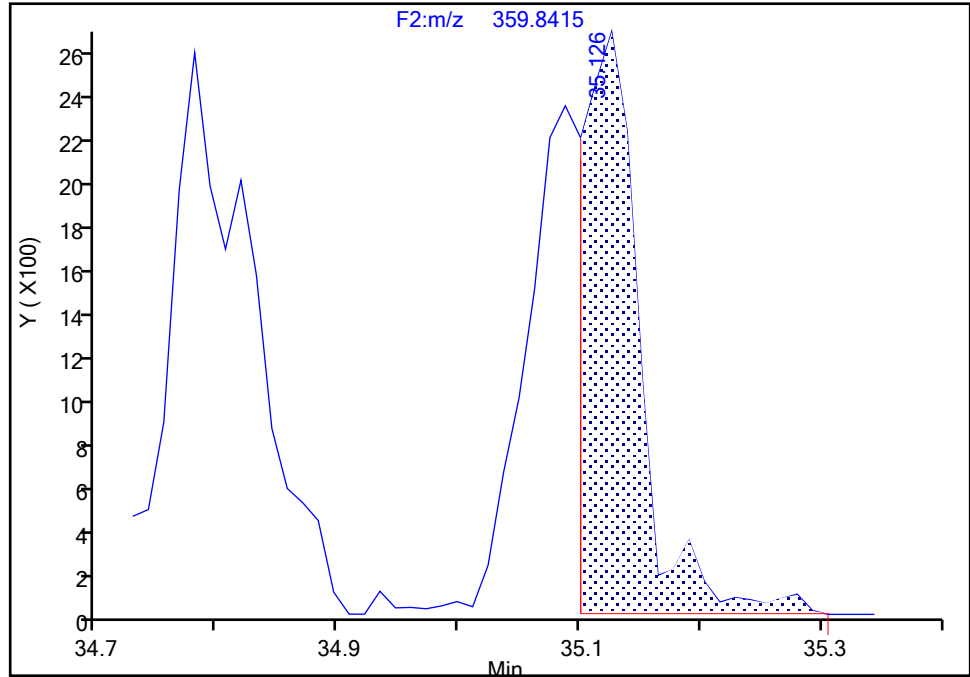
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-144, CAS: 68194-14-9

Signal: 1

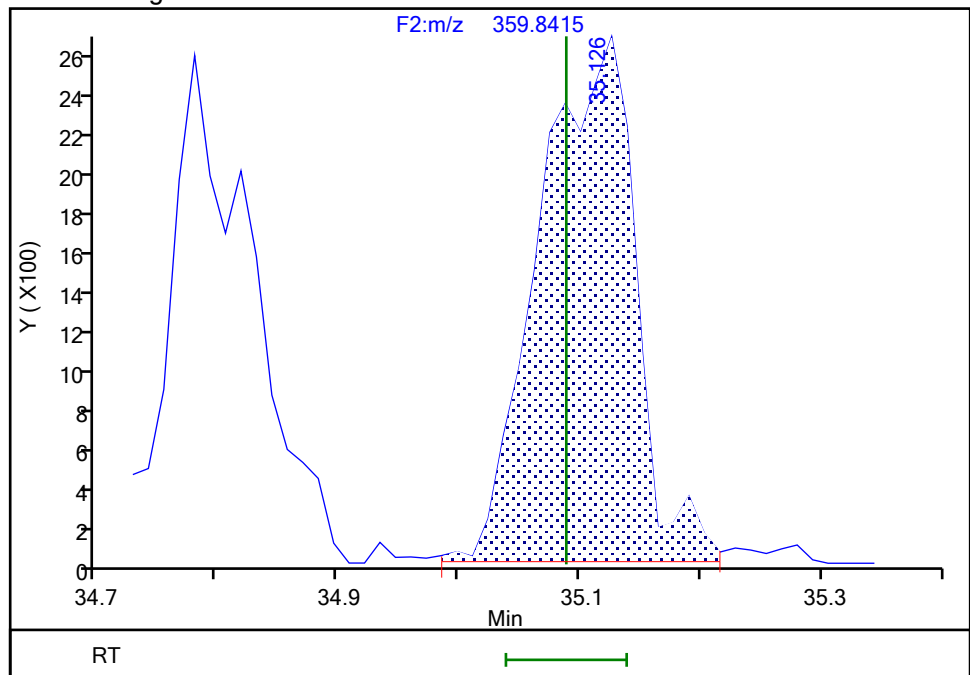
RT: 35.13
Area: 8058
Amount: 0.432703
Amount Units: pg/ul

Processing Integration Results



RT: 35.13
Area: 14483
Amount: 0.525688
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:42:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Chrom Revision: 2.3 20-May-2024 22:00:34

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Vol: 1.0 ul

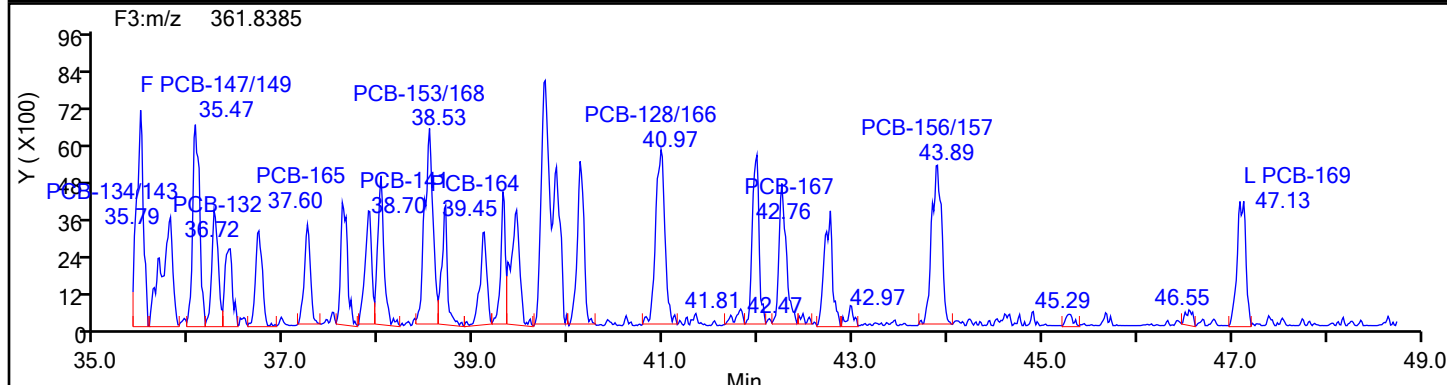
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

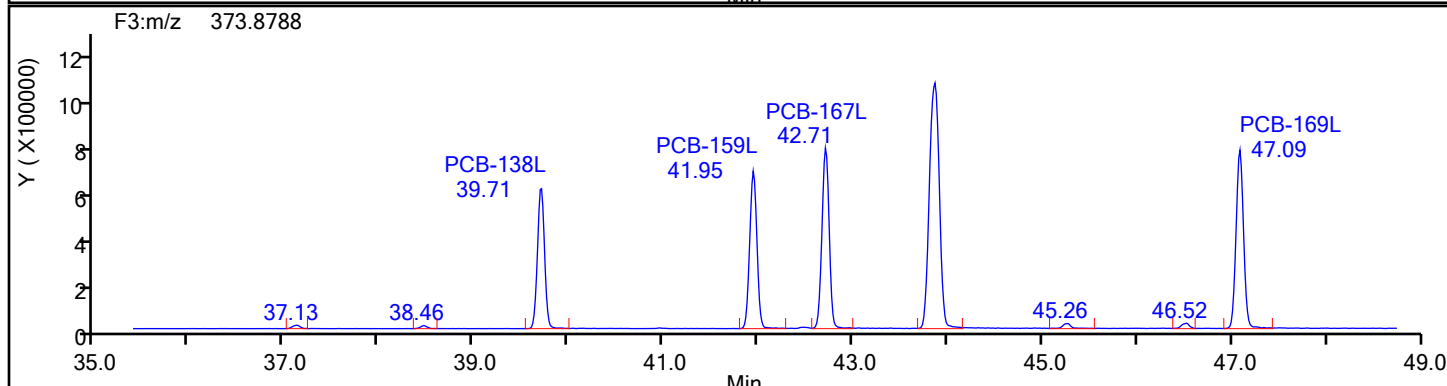
Sample Line#: 1

Column Dia: 0.25 mm

HxPCB F3



HxCPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

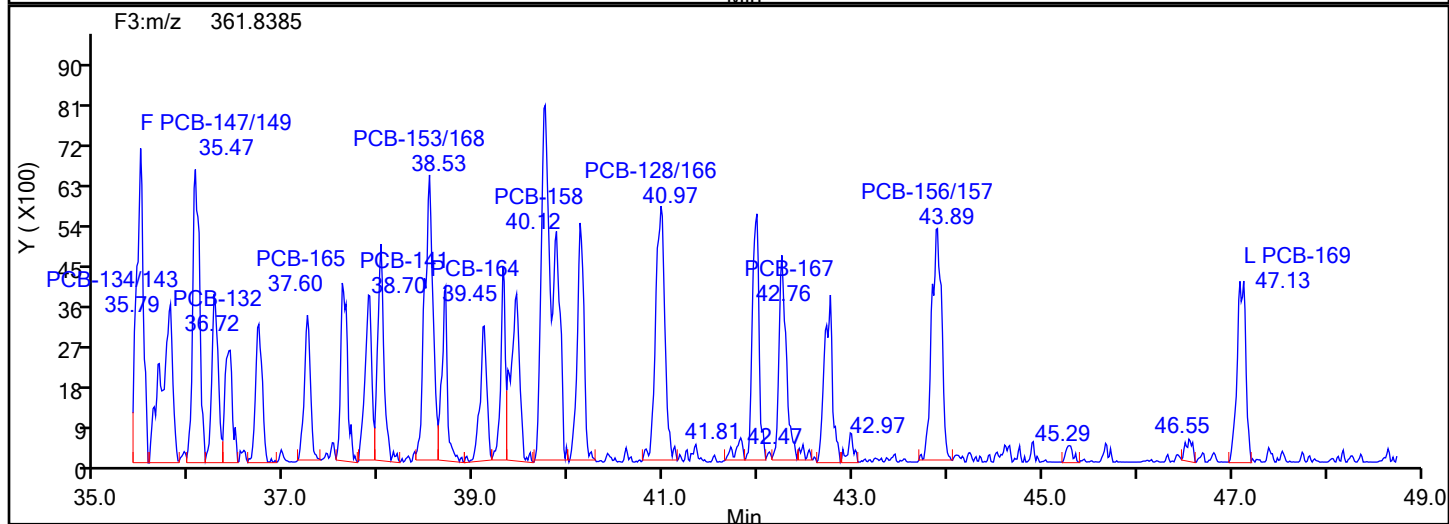
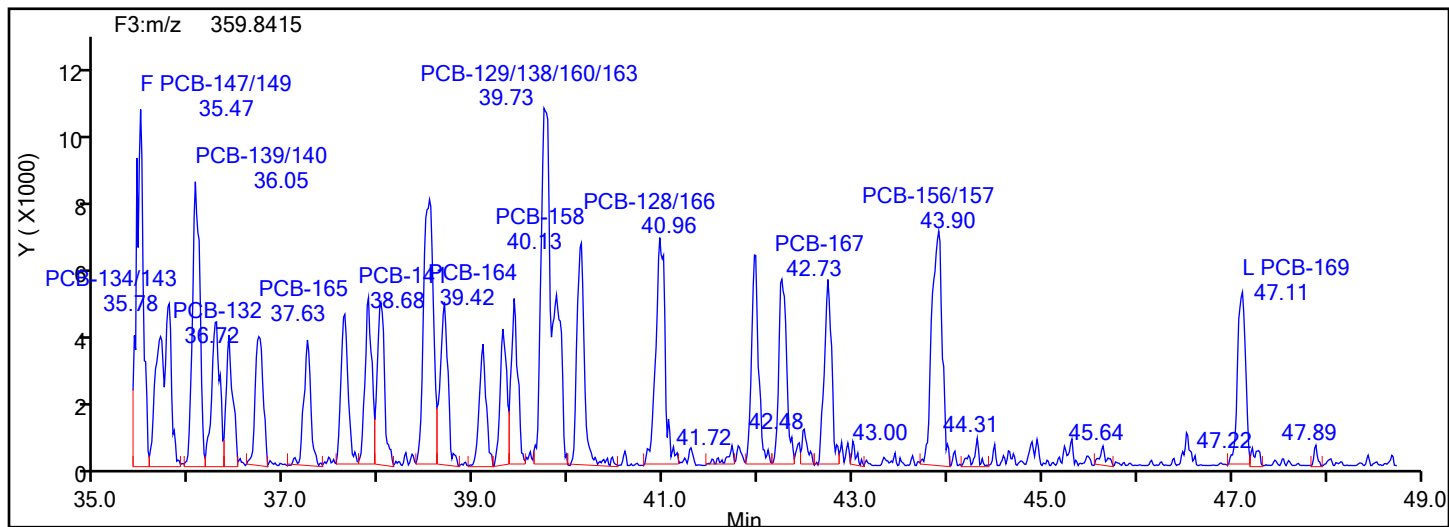
Worklist#: 87130

Sample Line#: 1

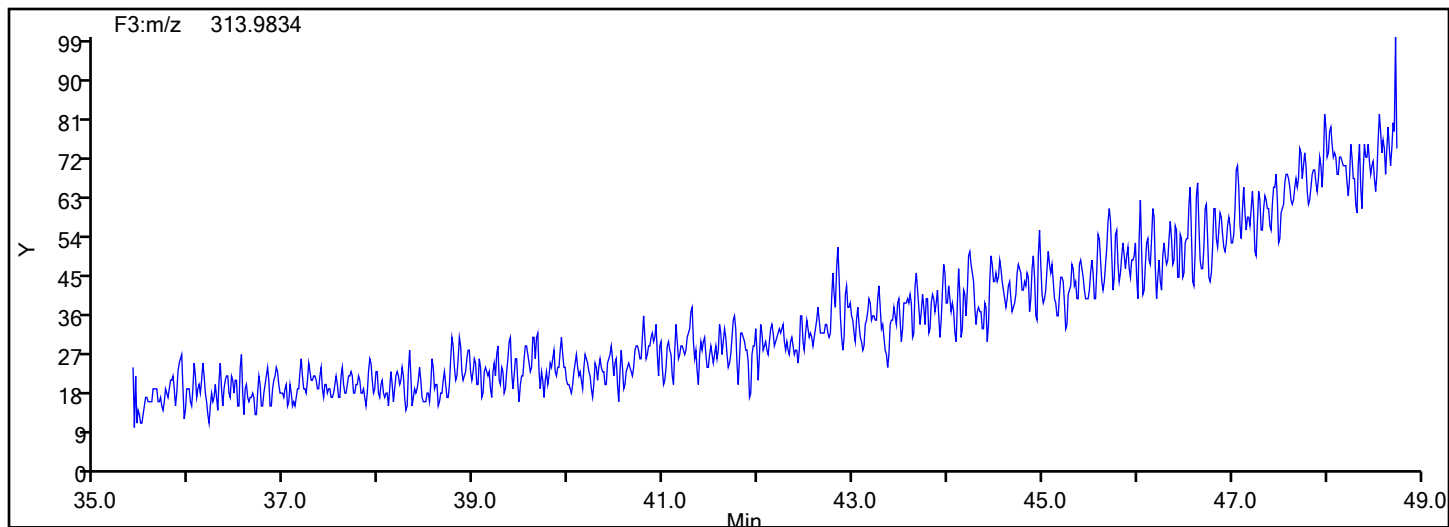
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

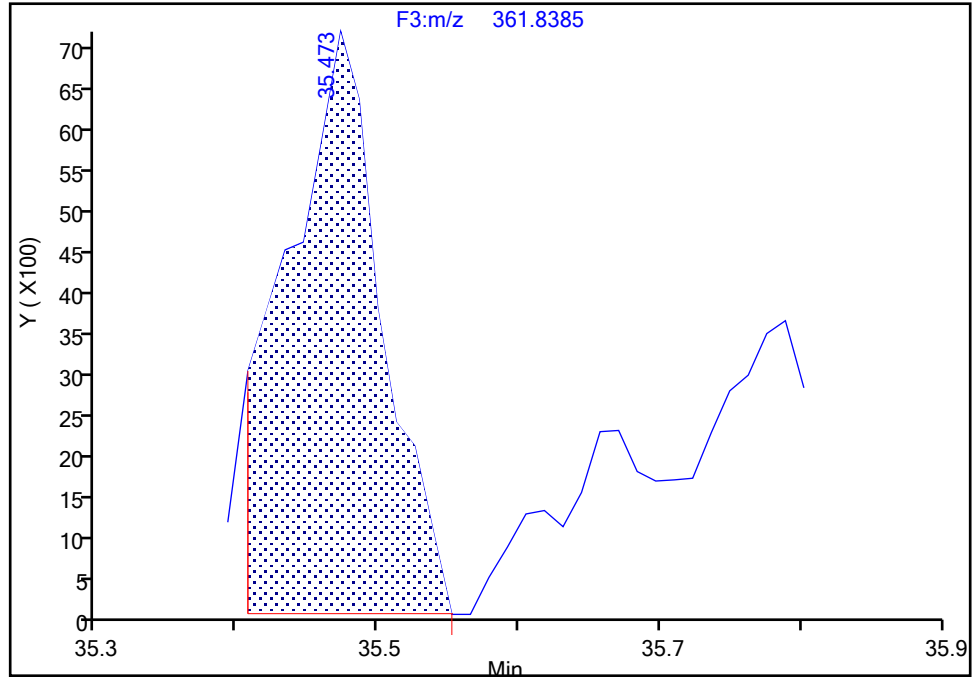
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-147/149, CAS: STL01821

Signal: 2

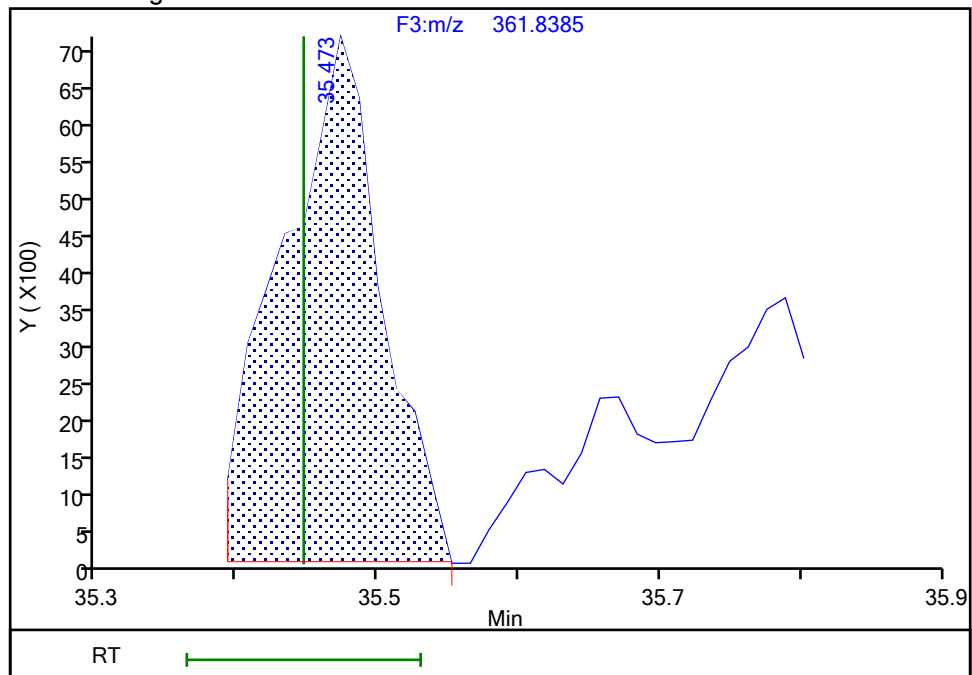
RT: 35.47
Area: 33615
Amount: 1.063615
Amount Units: pg/ul

Processing Integration Results



RT: 35.47
Area: 35175
Amount: 1.079132
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:32:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

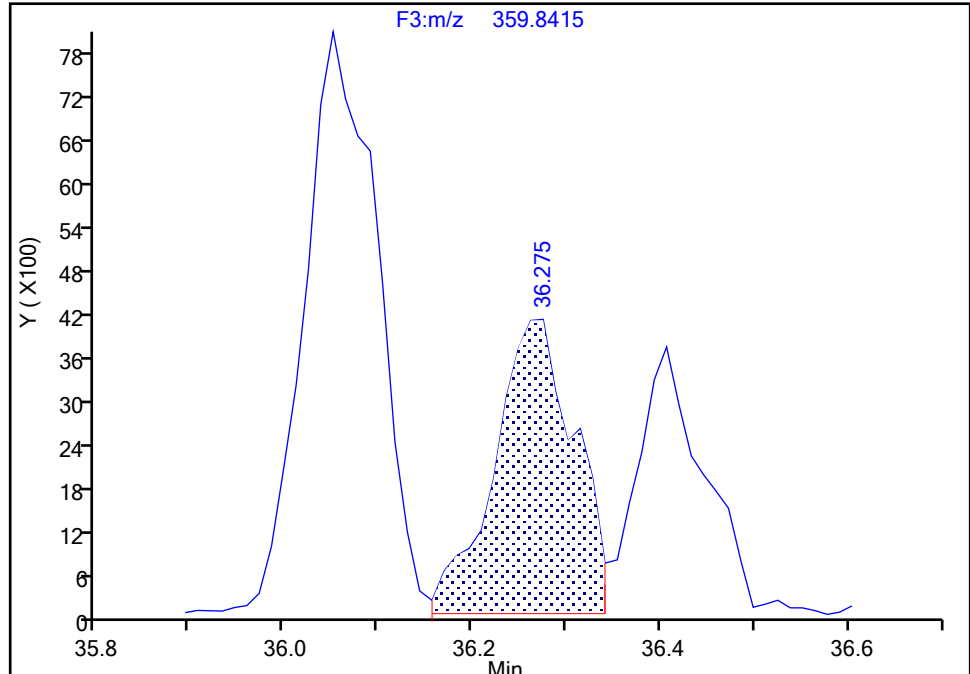
Detector F3(35.64 :49.10)

PCB-131, CAS: 61798-70-7

Signal: 1

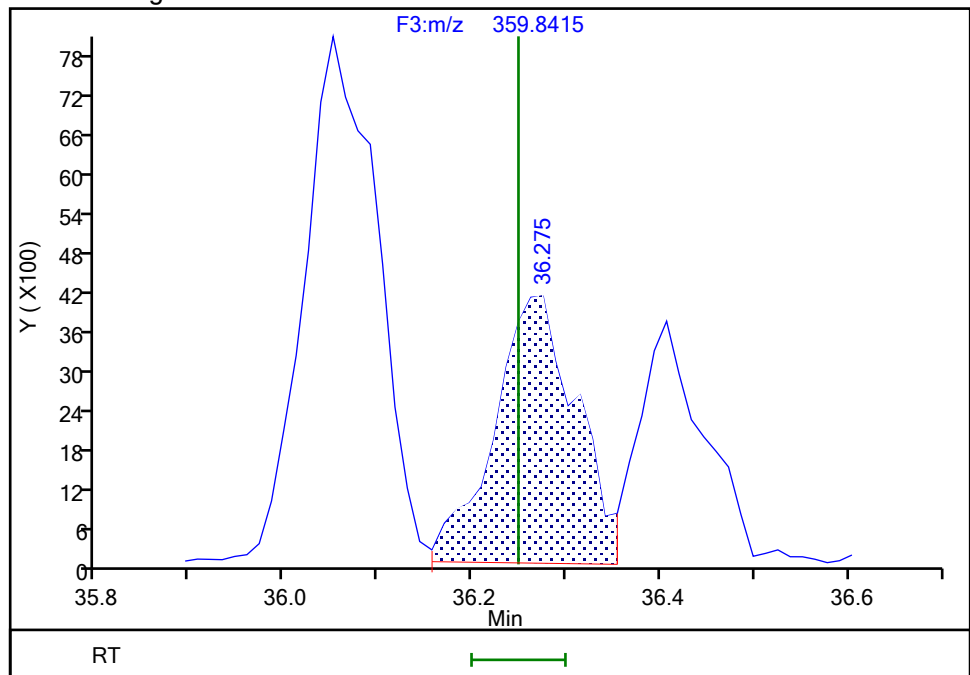
RT: 36.28
Area: 23949
Amount: 0.603994
Amount Units: pg/ul

Processing Integration Results



RT: 36.28
Area: 24575
Amount: 0.639629
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:28:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

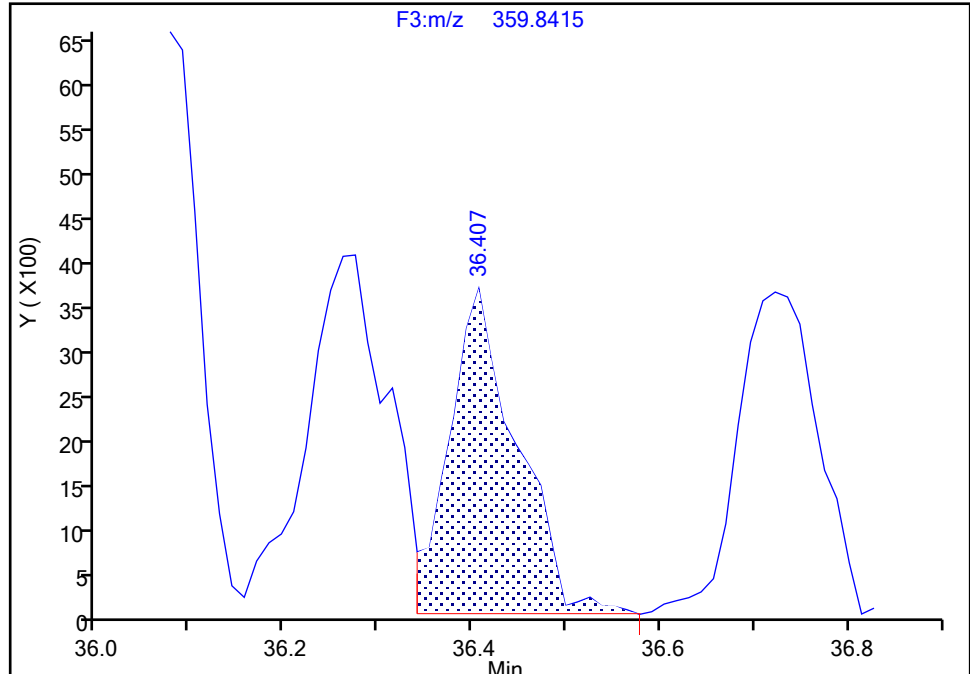
Detector F3(35.64 :49.10)

PCB-142, CAS: 41411-61-4

Signal: 1

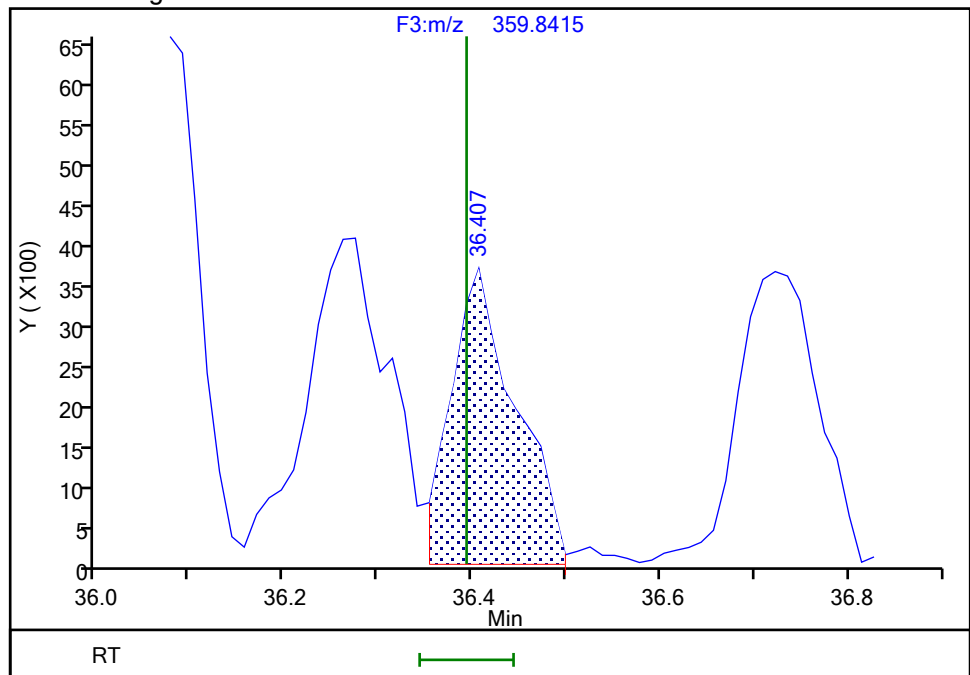
RT: 36.41
Area: 18363
Amount: 0.485443
Amount Units: pg/ul

Processing Integration Results



RT: 36.41
Area: 17385
Amount: 0.473115
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:28:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d		
Injection Date:	31-May-2024 14:36:00	Instrument ID:	D2D
Lims ID:	IC L1		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl (0.25 mm)	Detector	F3(35.64 :49.1

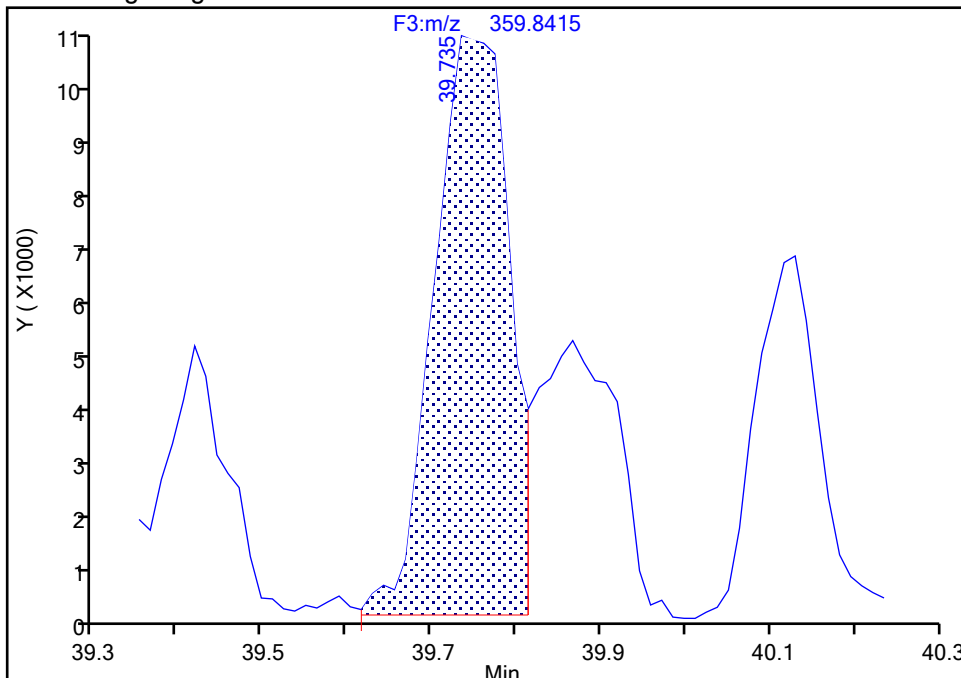
```

ALS Bottle#:      0           Worklist Smp#:      1
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F3(35.64 :49.10 )

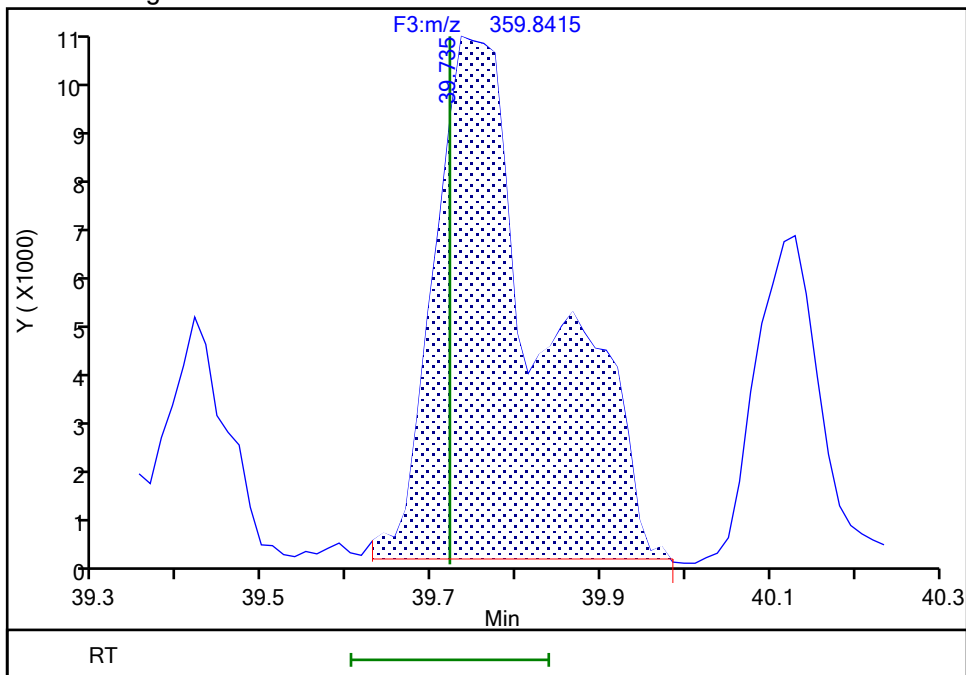
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Signal: 1

Processing Integration Results



Manual Integration Results



Audit Reason: Incomplete Integration

Eurofins Knoxville

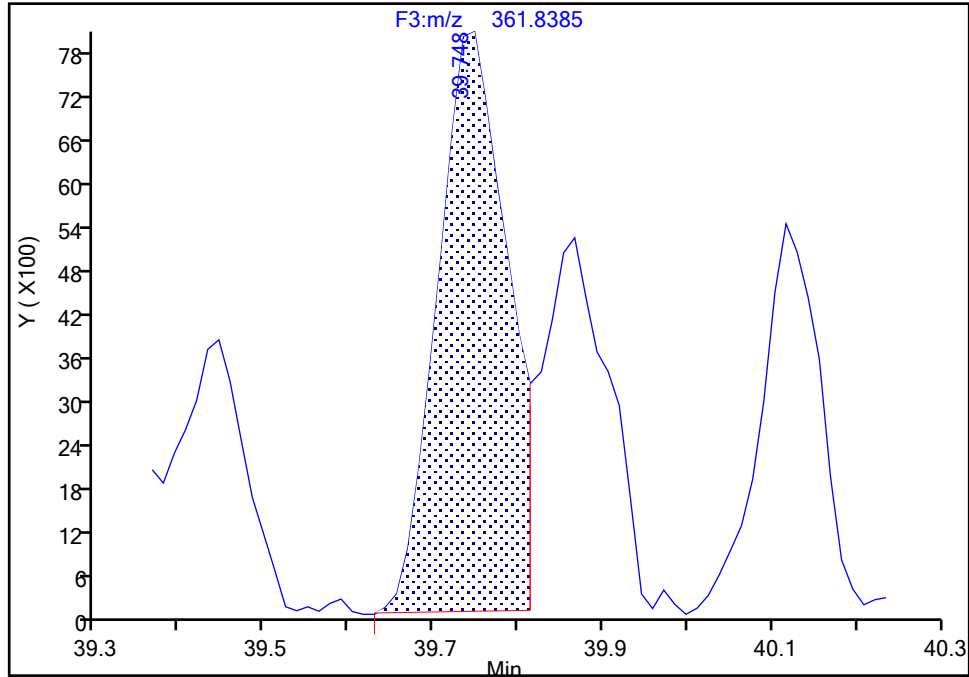
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

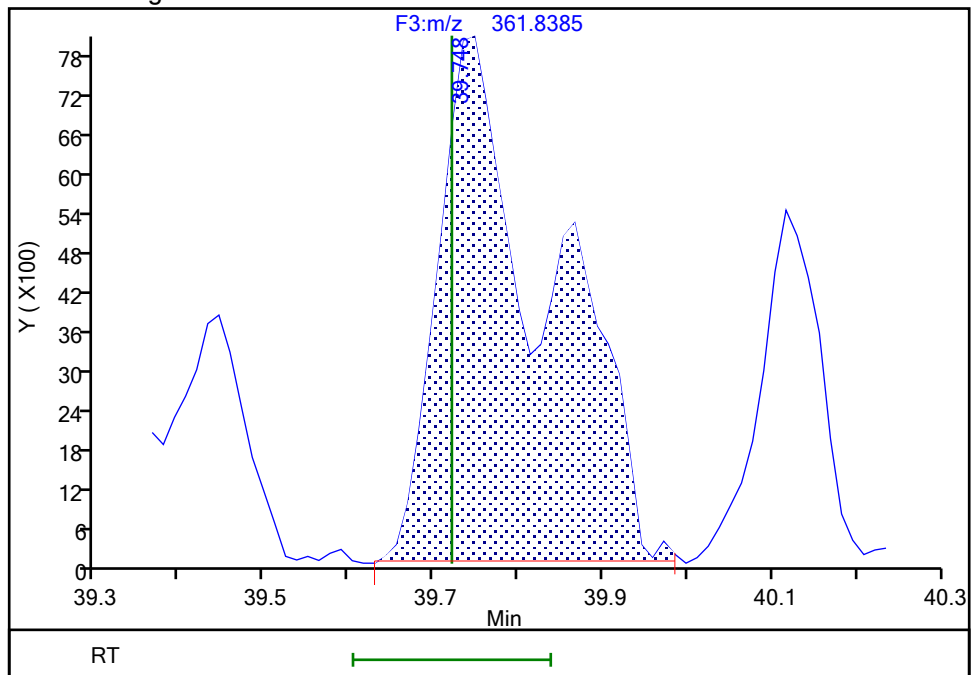
RT: 39.75
Area: 45519
Amount: 1.440948
Amount Units: pg/ul

Processing Integration Results



RT: 39.75
Area: 73127
Amount: 1.965277
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:43:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

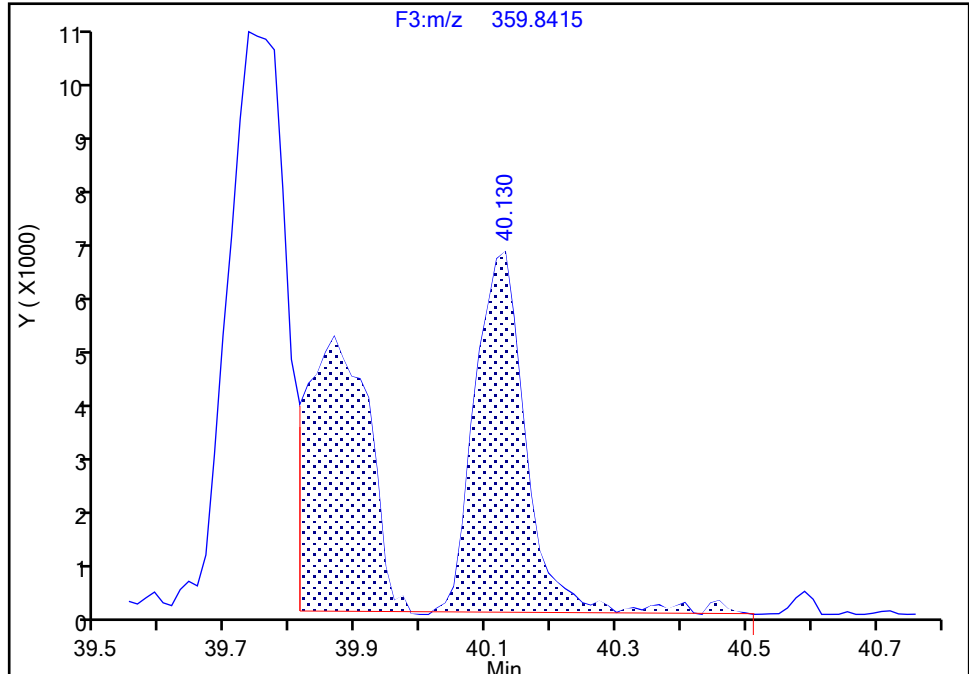
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-158, CAS: 74472-42-7

Signal: 1

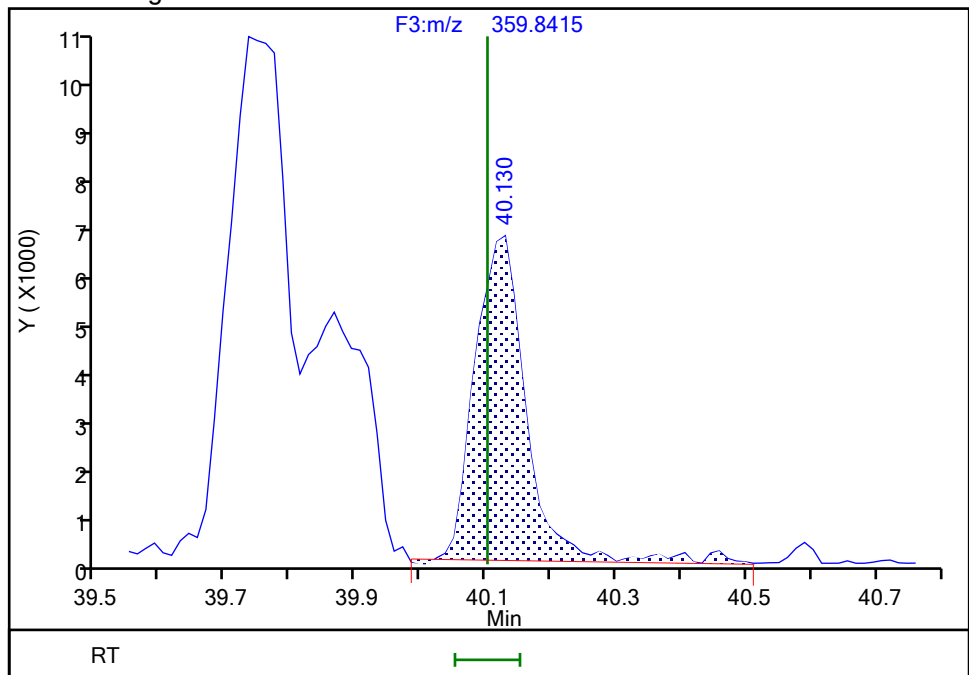
RT: 40.13
Area: 65243
Amount: 0.974334
Amount Units: pg/ul

Processing Integration Results



RT: 40.13
Area: 34022
Amount: 0.519156
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:43:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

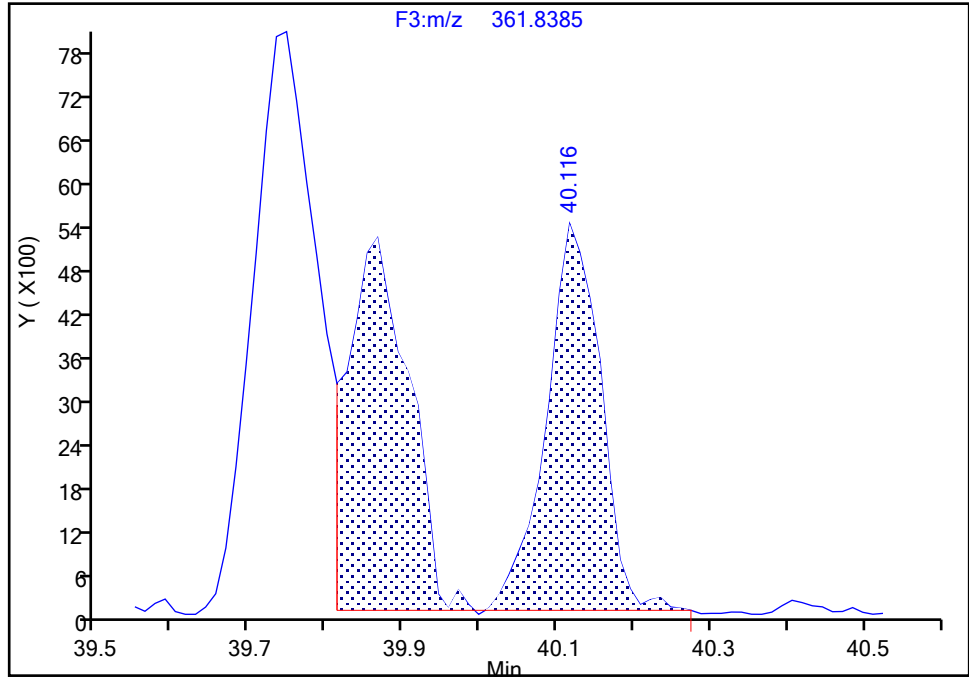
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-158, CAS: 74472-42-7

Signal: 2

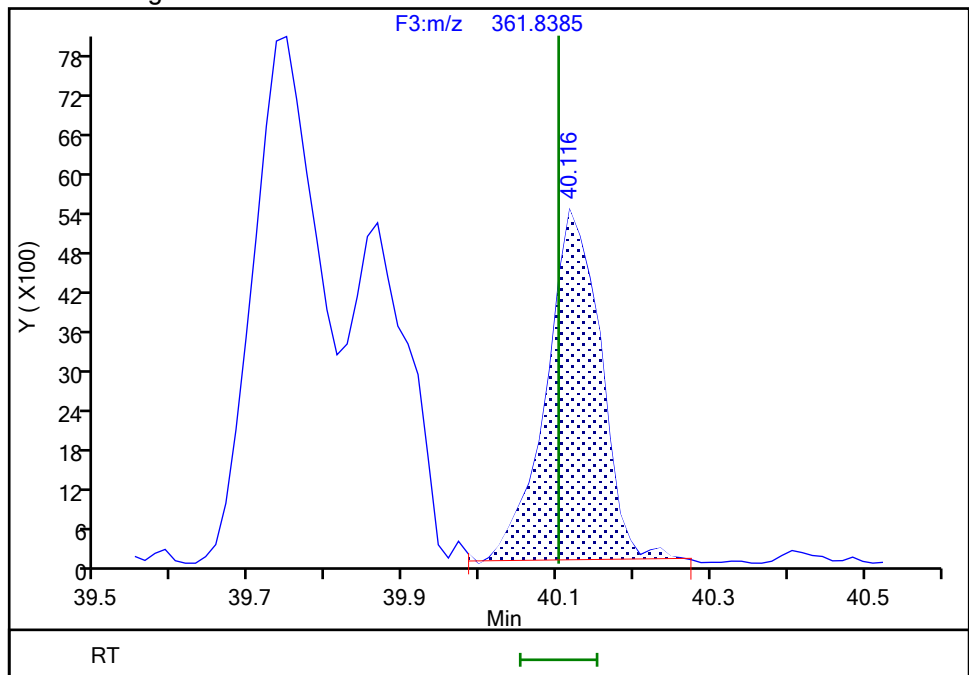
RT: 40.12
Area: 54061
Amount: 0.974334
Amount Units: pg/ul

Processing Integration Results



RT: 40.12
Area: 26269
Amount: 0.519156
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:43:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

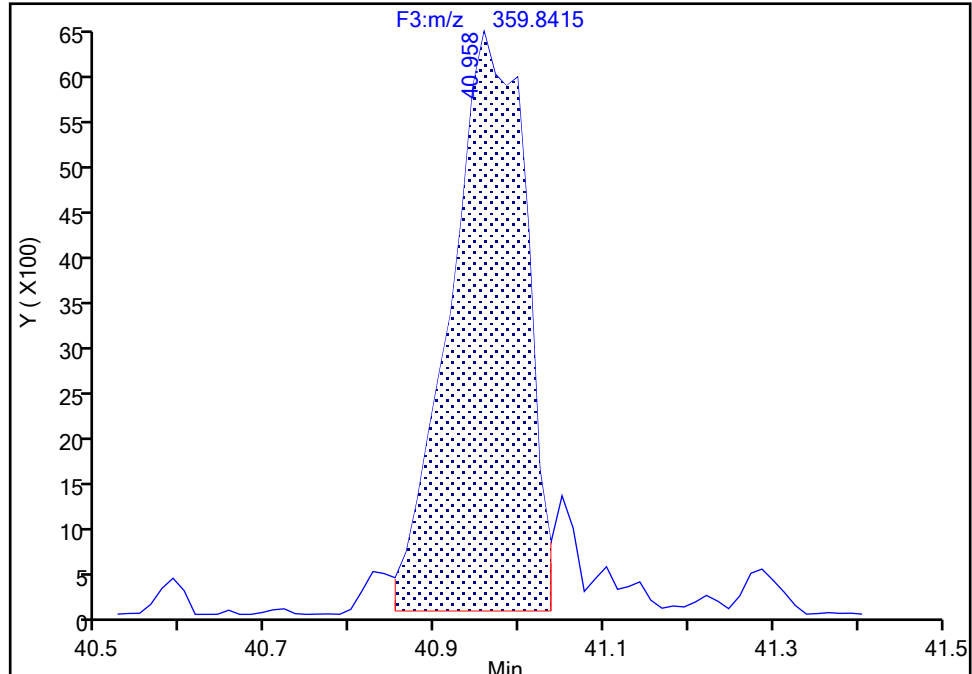
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-128/166, CAS: STL01816

Signal: 1

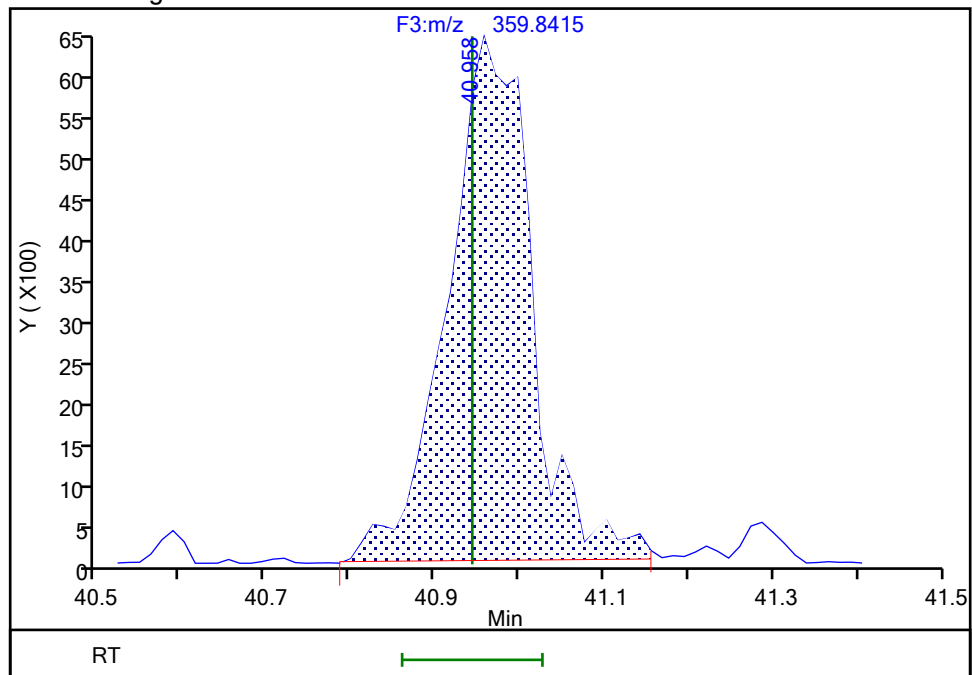
RT: 40.96
Area: 39562
Amount: 0.944576
Amount Units: pg/ul

Processing Integration Results



RT: 40.96
Area: 44274
Amount: 0.963629
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:03:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

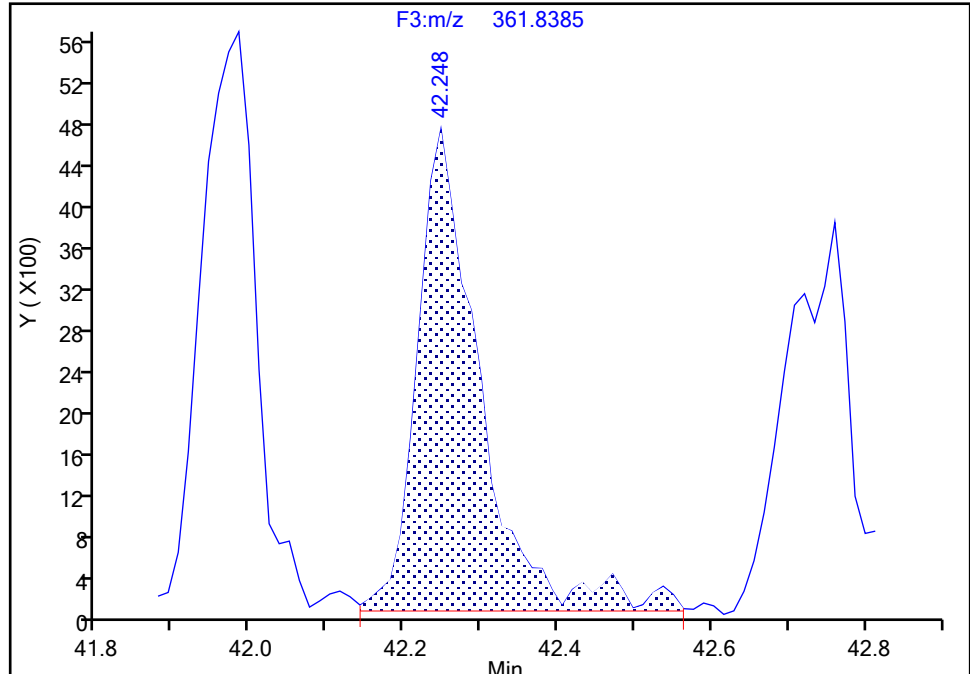
Detector F3(35.64 :49.10)

PCB-162, CAS: 39635-34-2

Signal: 2

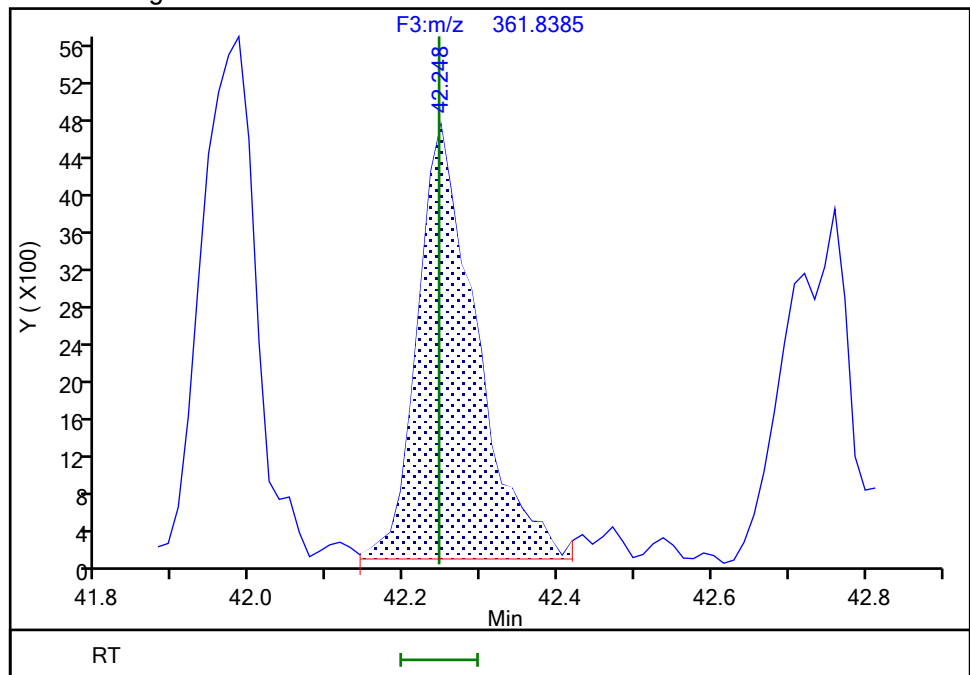
RT: 42.25
Area: 26211
Amount: 0.551813
Amount Units: pg/ul

Processing Integration Results



RT: 42.25
Area: 24701
Amount: 0.496624
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:03:56 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Baseline

Eurofins Knoxville

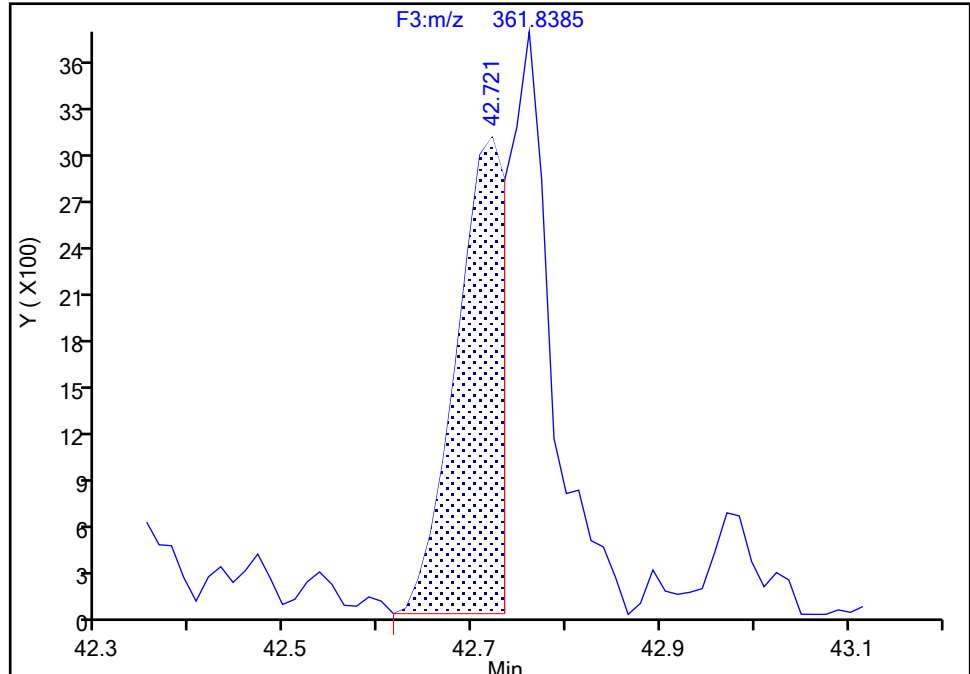
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-167, CAS: 52663-72-6

Signal: 2

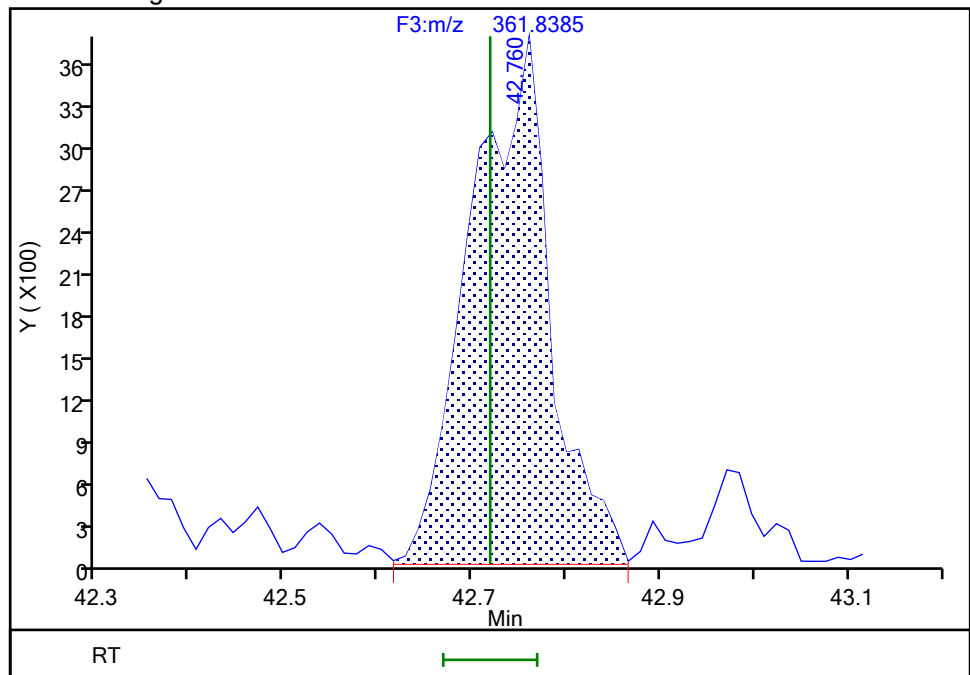
RT: 42.72
Area: 10384
Amount: 0.403076
Amount Units: pg/ul

Processing Integration Results



RT: 42.76
Area: 22483
Amount: 0.504170
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:37:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

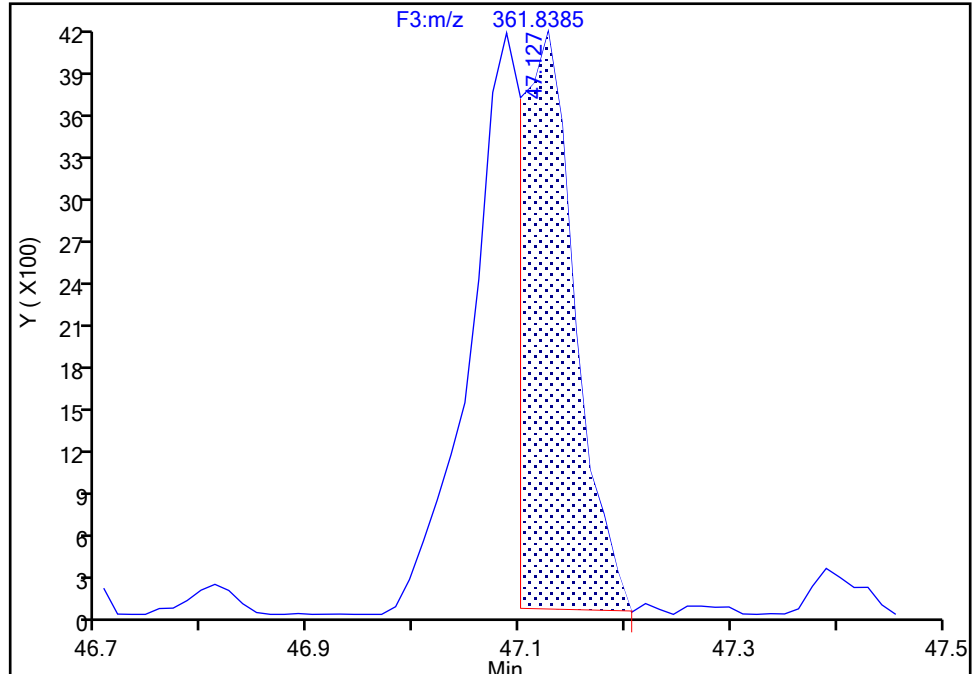
Detector F3(35.64 :49.10)

PCB-169, CAS: 32774-16-6

Signal: 2

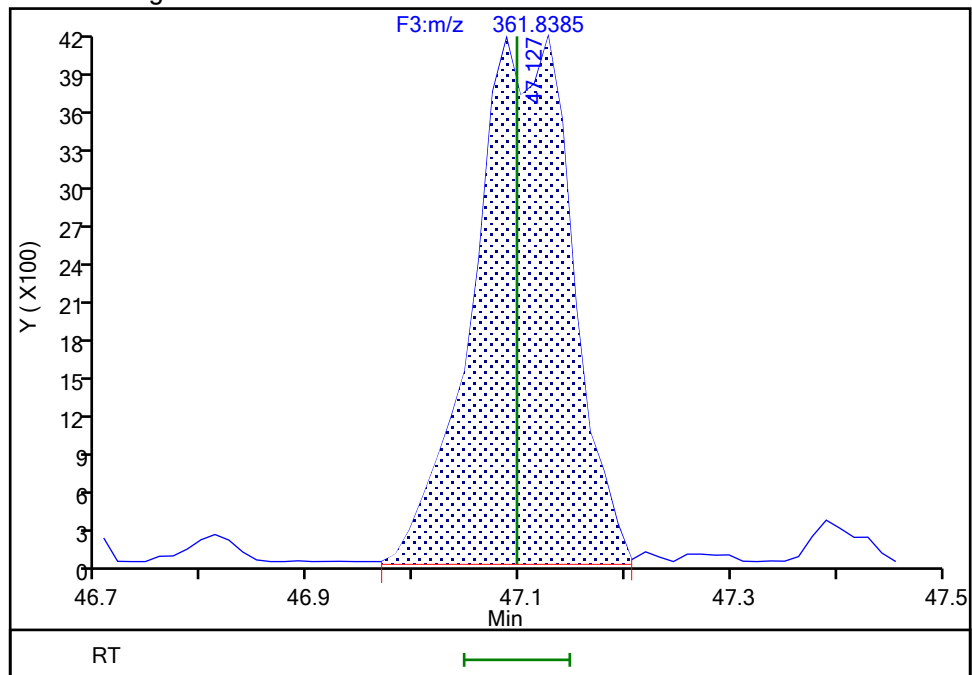
RT: 47.13
Area: 13314
Amount: 0.387209
Amount Units: pg/ul

Processing Integration Results



RT: 47.13
Area: 26435
Amount: 0.514281
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:37:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

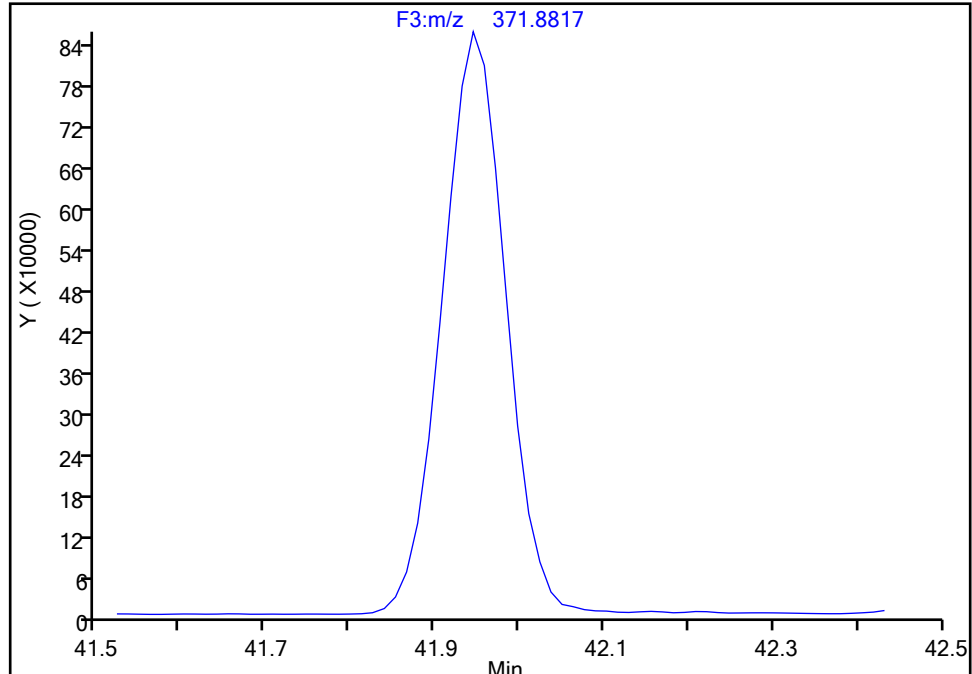
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-159L, CAS: STL02761

Signal: 1

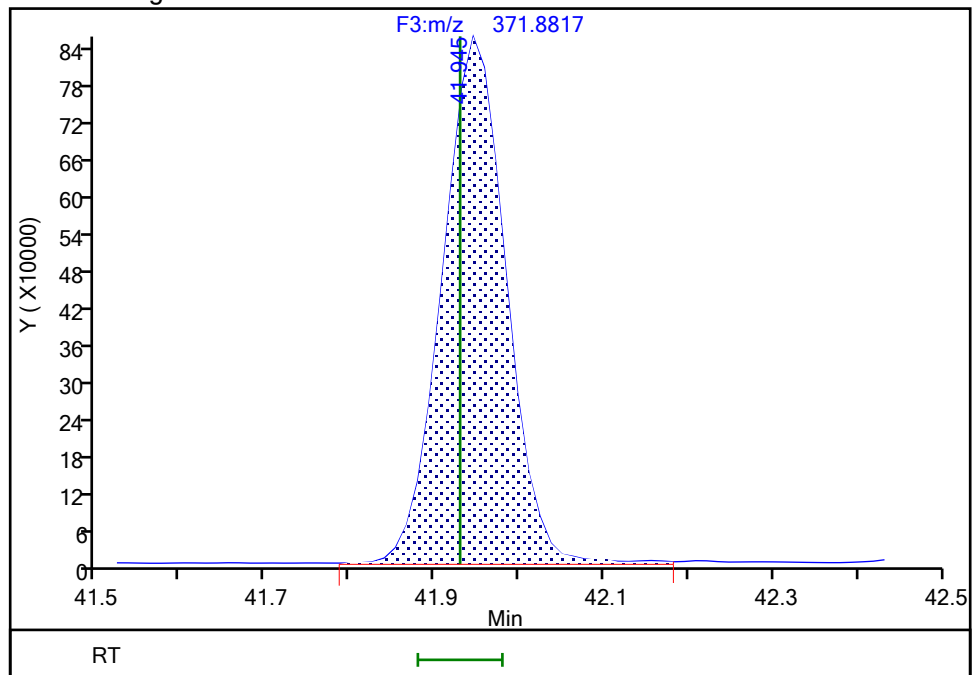
Not Detected
Expected RT: 41.93

Processing Integration Results



RT: 41.95
Area: 4449727
Amount: 95.479320
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:25:36 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

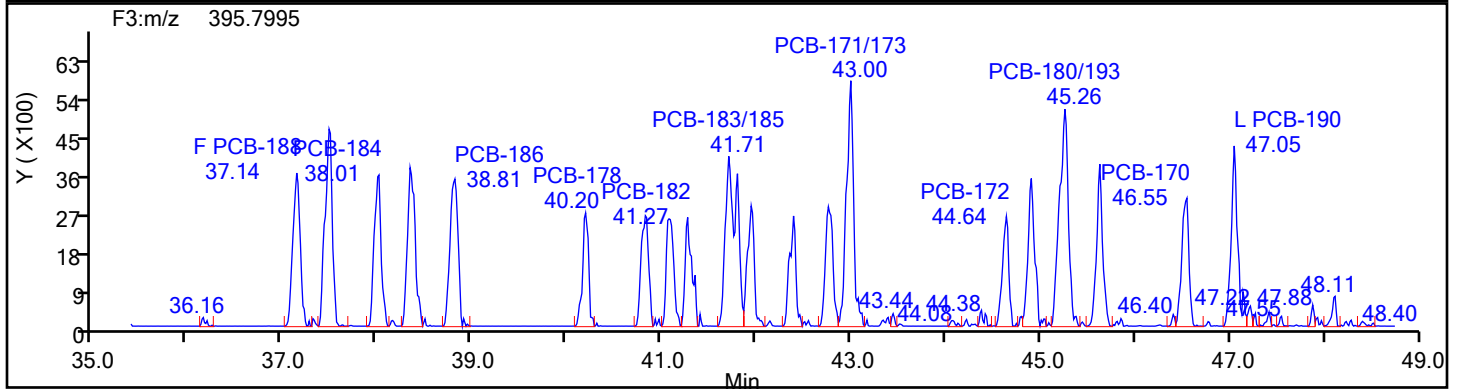
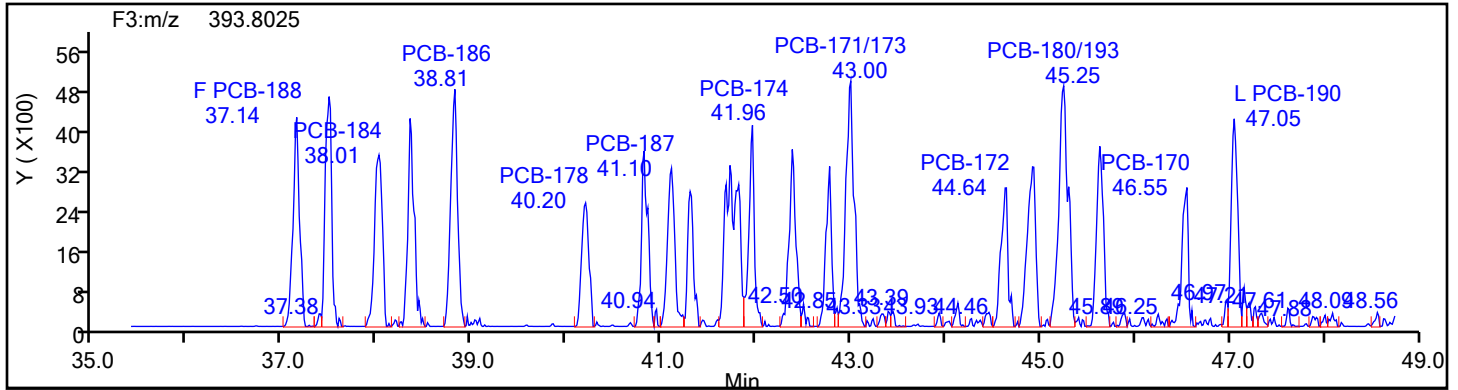
Worklist#: 87130

Sample Line#: 1

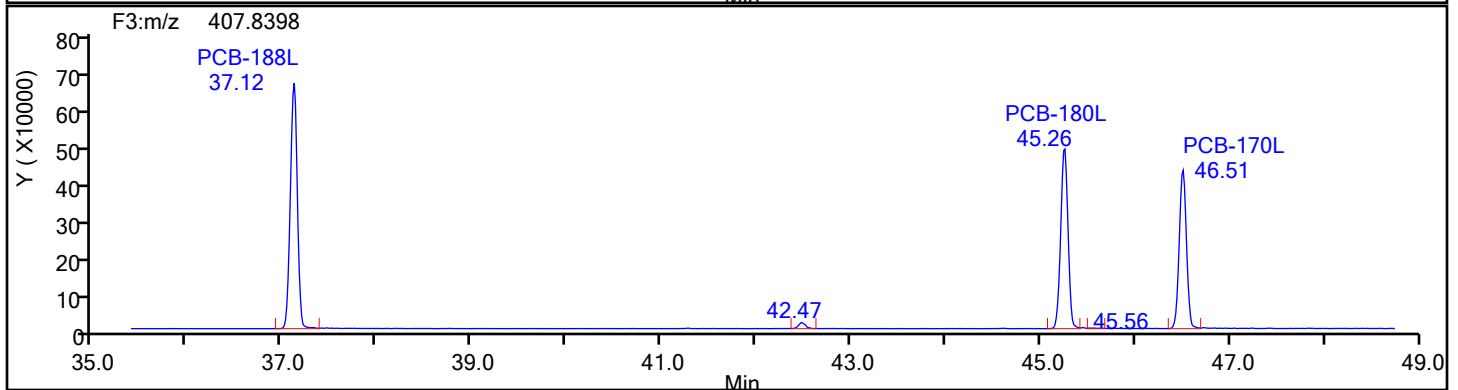
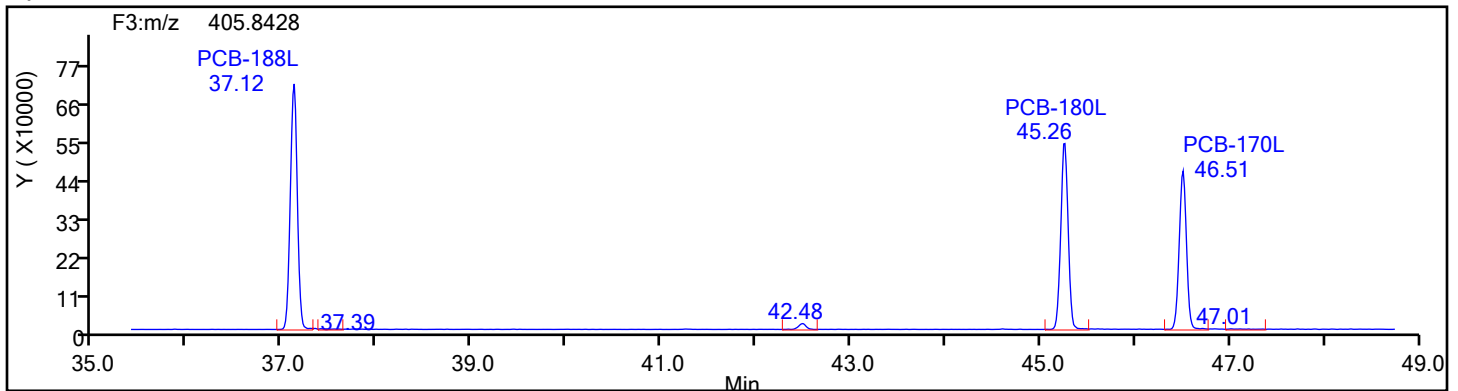
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

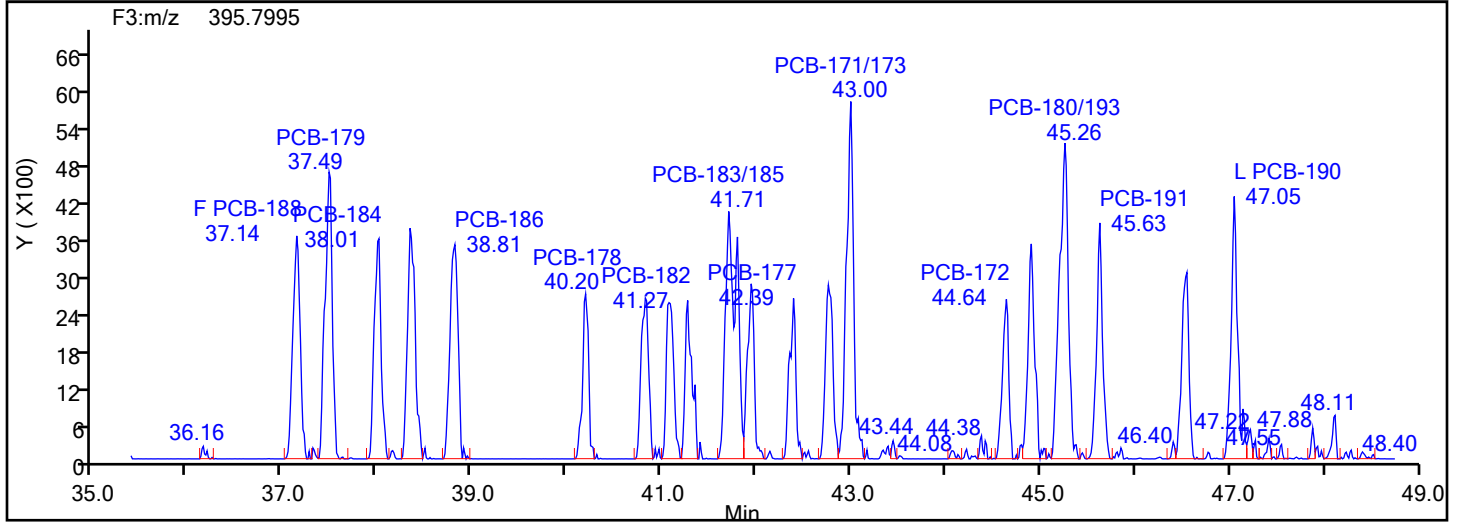
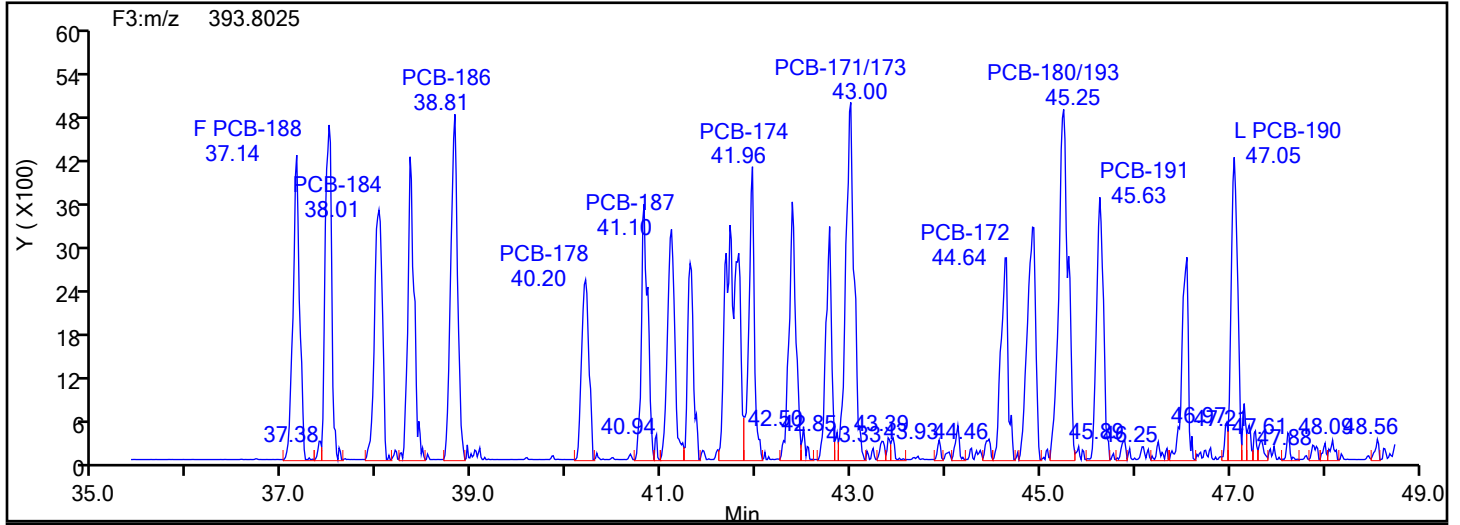
Worklist#: 87130

Sample Line#: 1

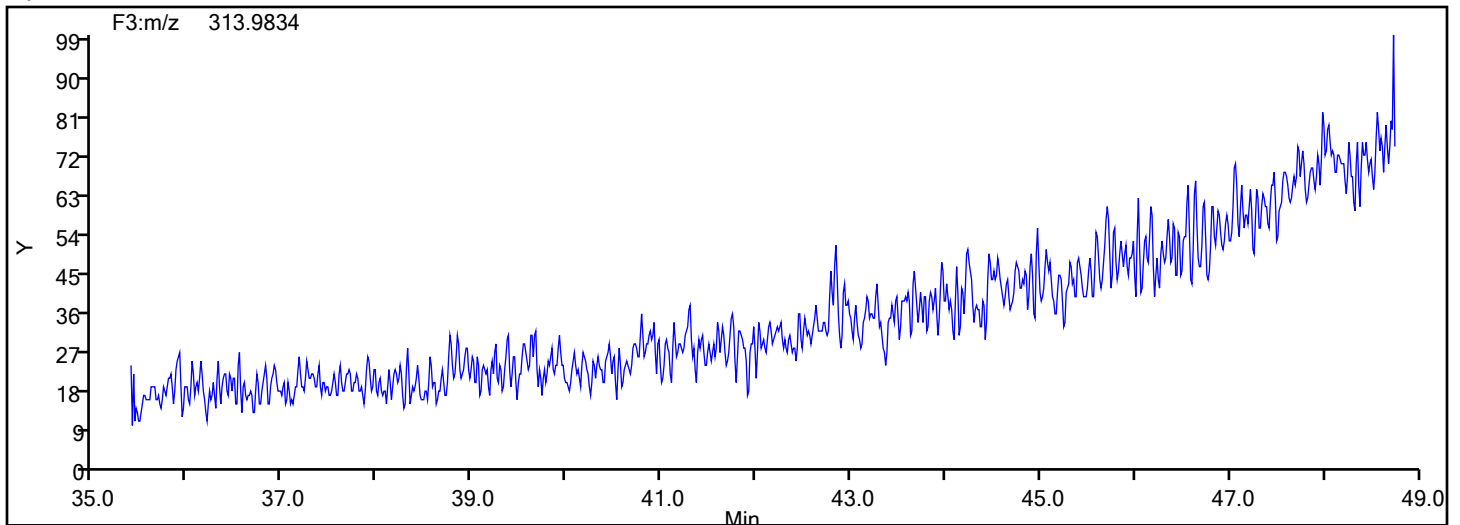
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

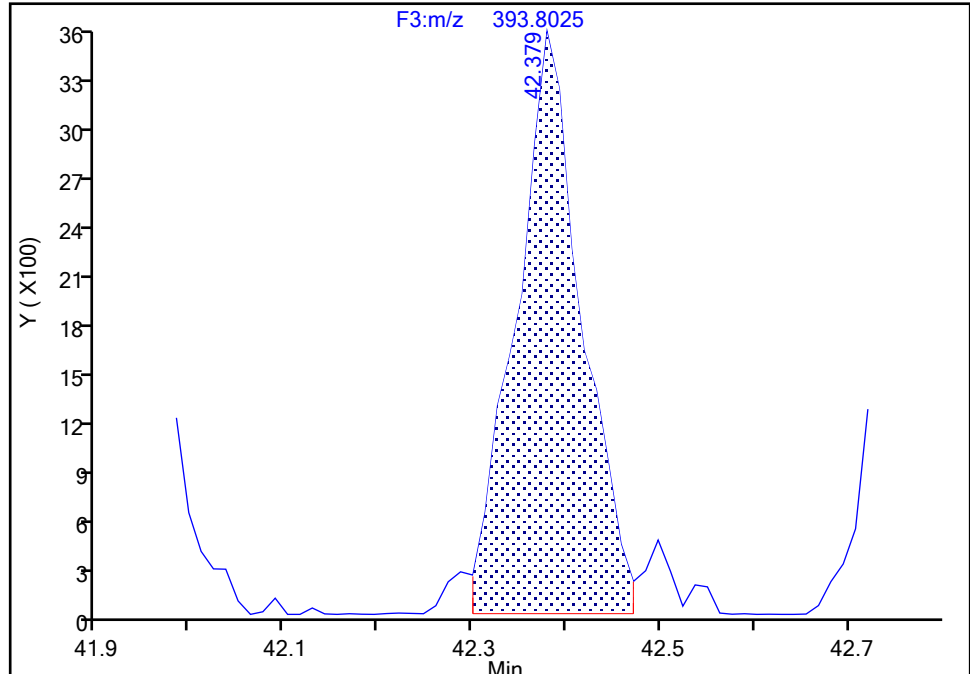
Detector F3(35.64 :49.10)

PCB-177, CAS: 52663-70-4

Signal: 1

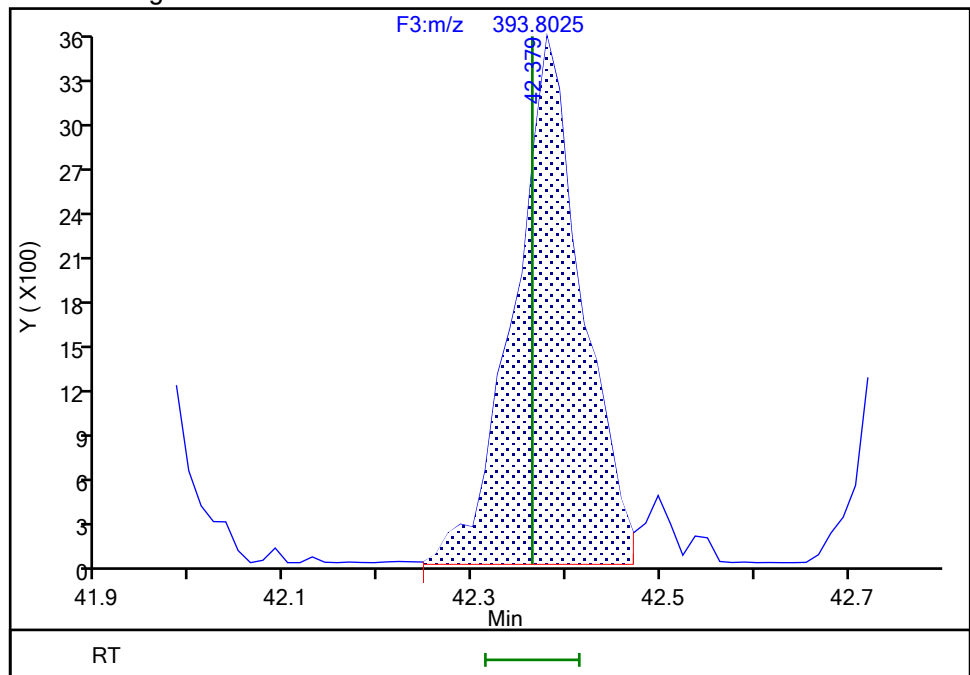
RT: 42.38
Area: 17239
Amount: 0.509180
Amount Units: pg/ul

Processing Integration Results



RT: 42.38
Area: 17793
Amount: 0.515118
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:32:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

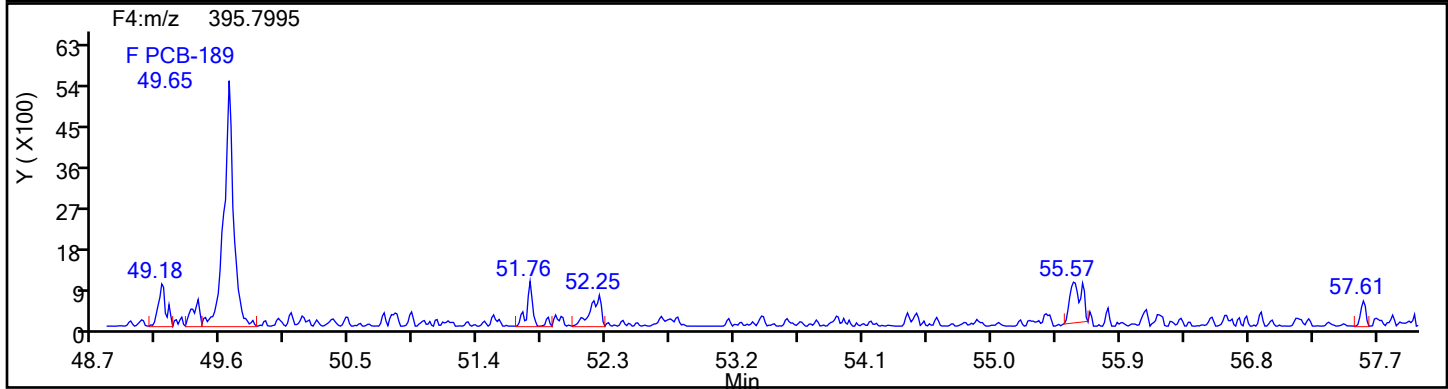
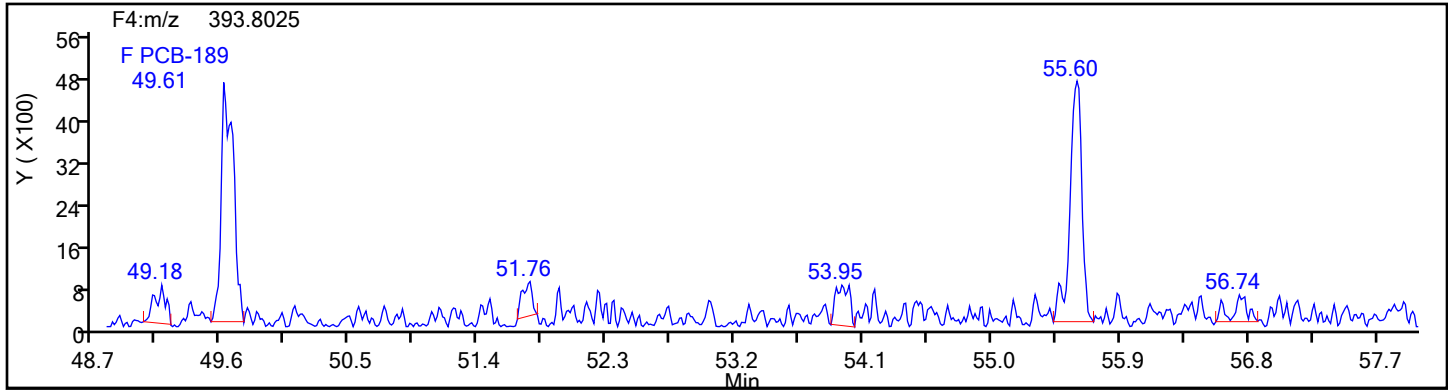
Worklist#: 87130

Sample Line#: 1

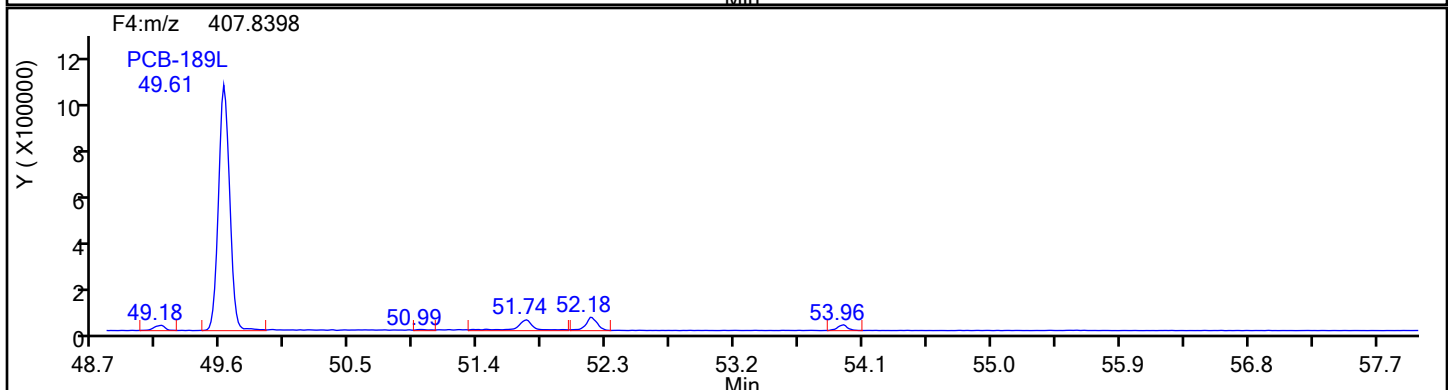
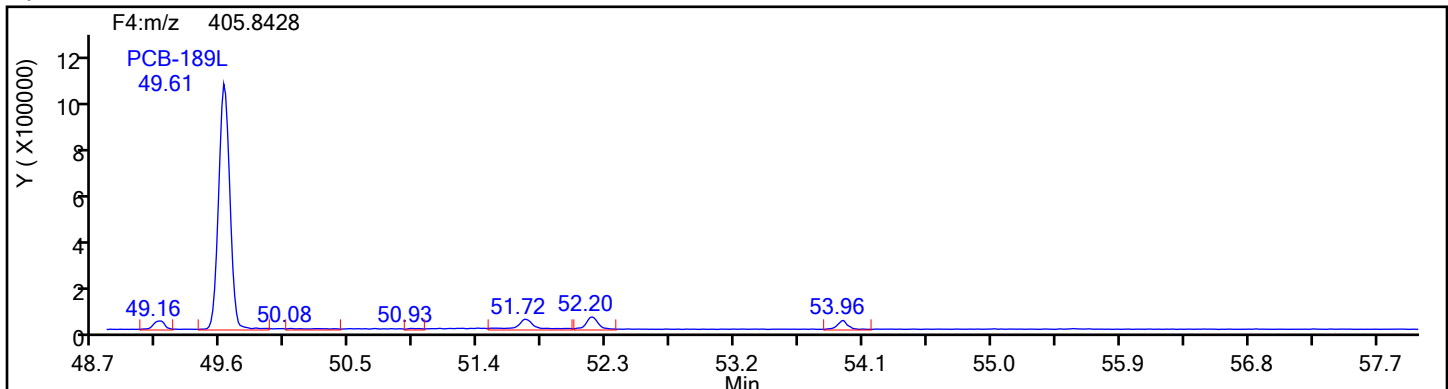
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

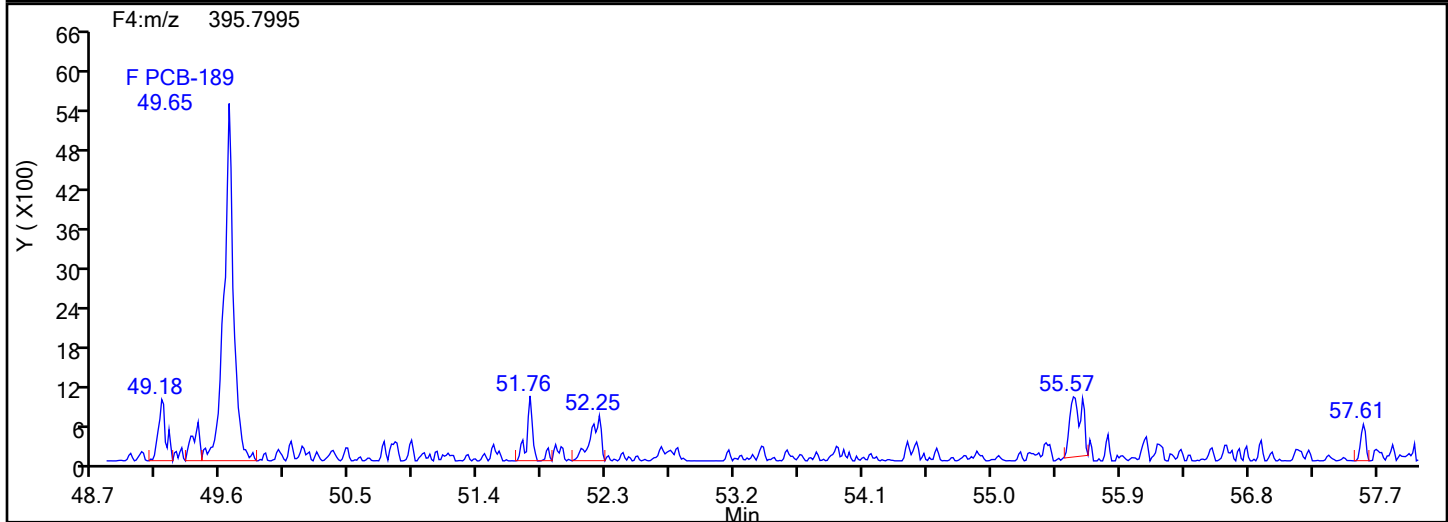
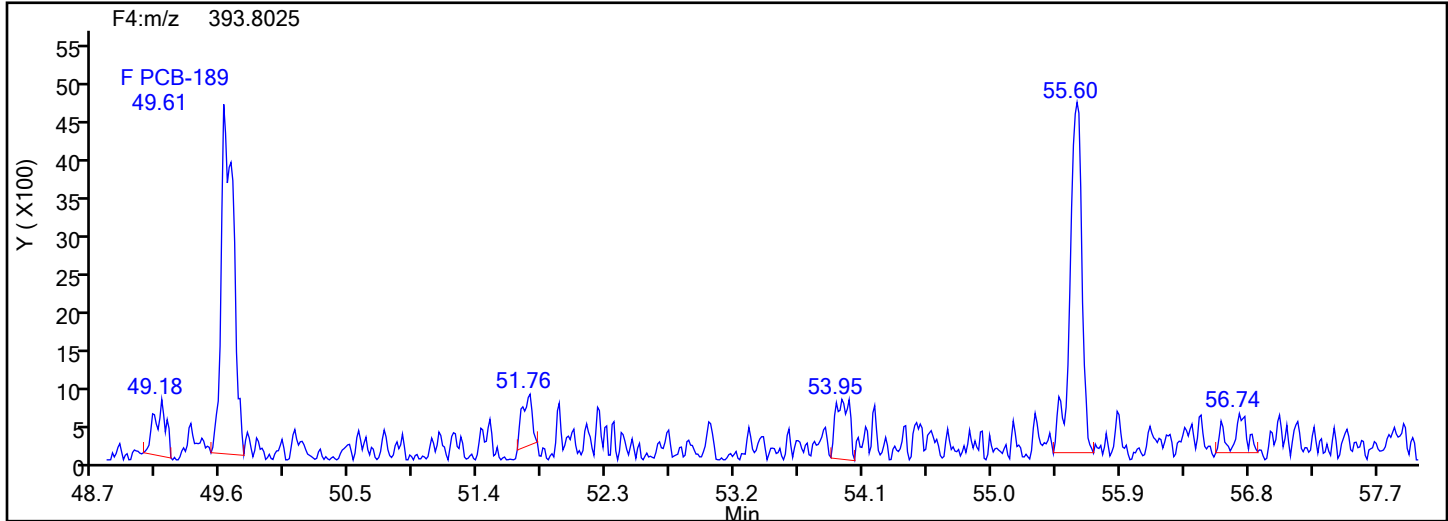
Worklist#: 87130

Sample Line#: 1

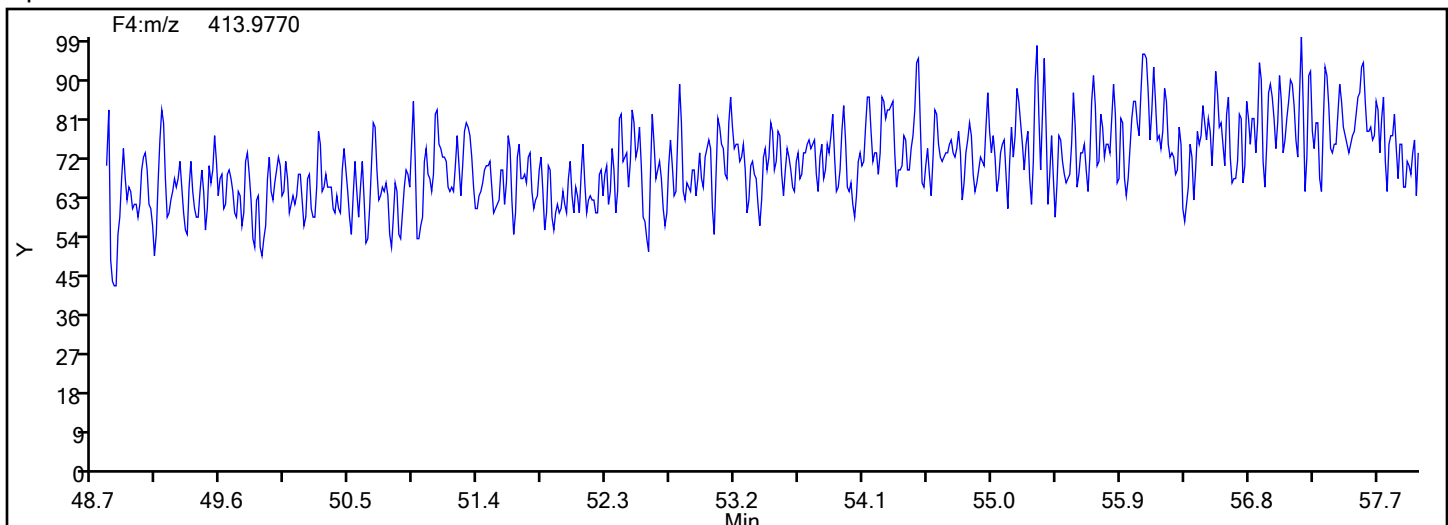
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

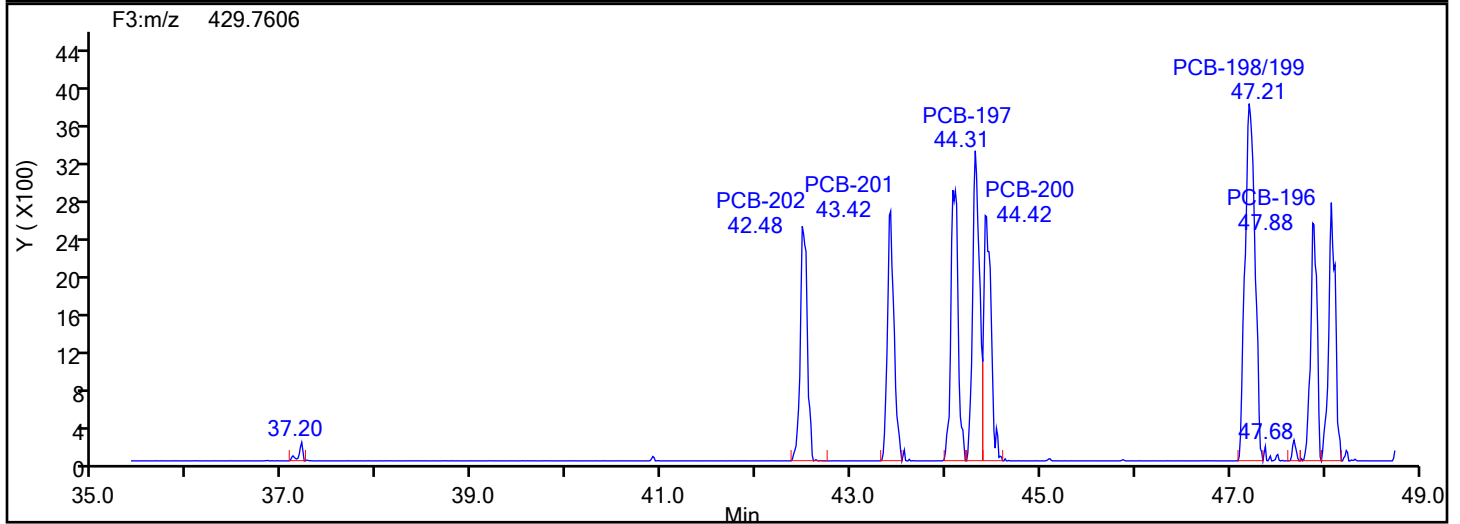
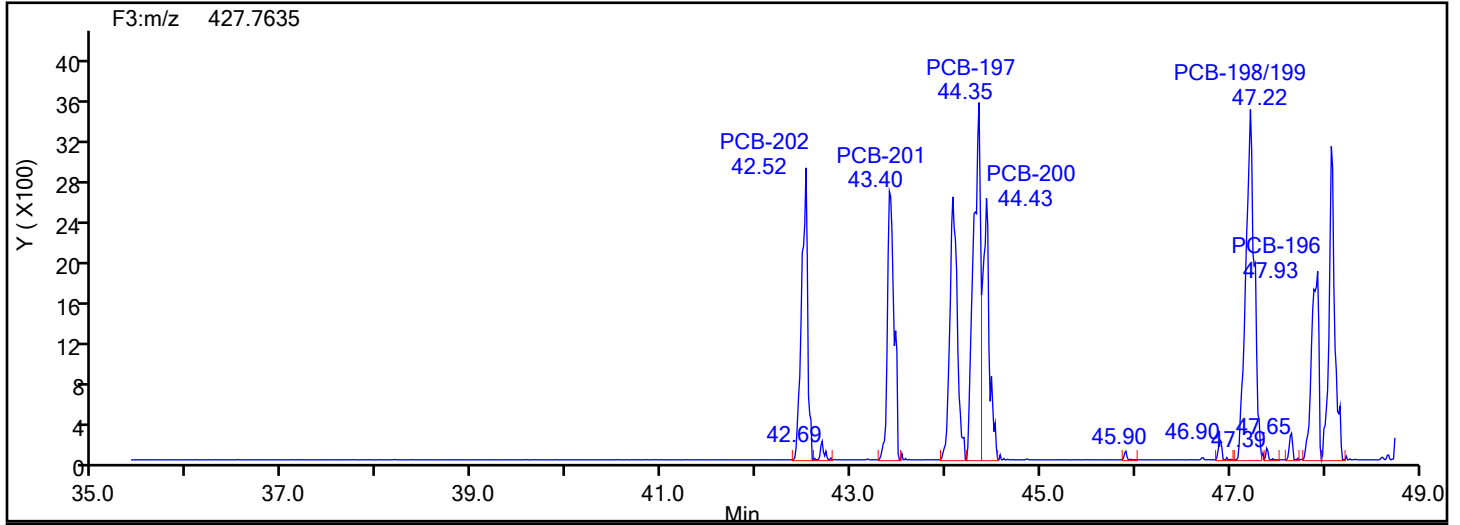
Worklist#: 87130

Sample Line#: 1

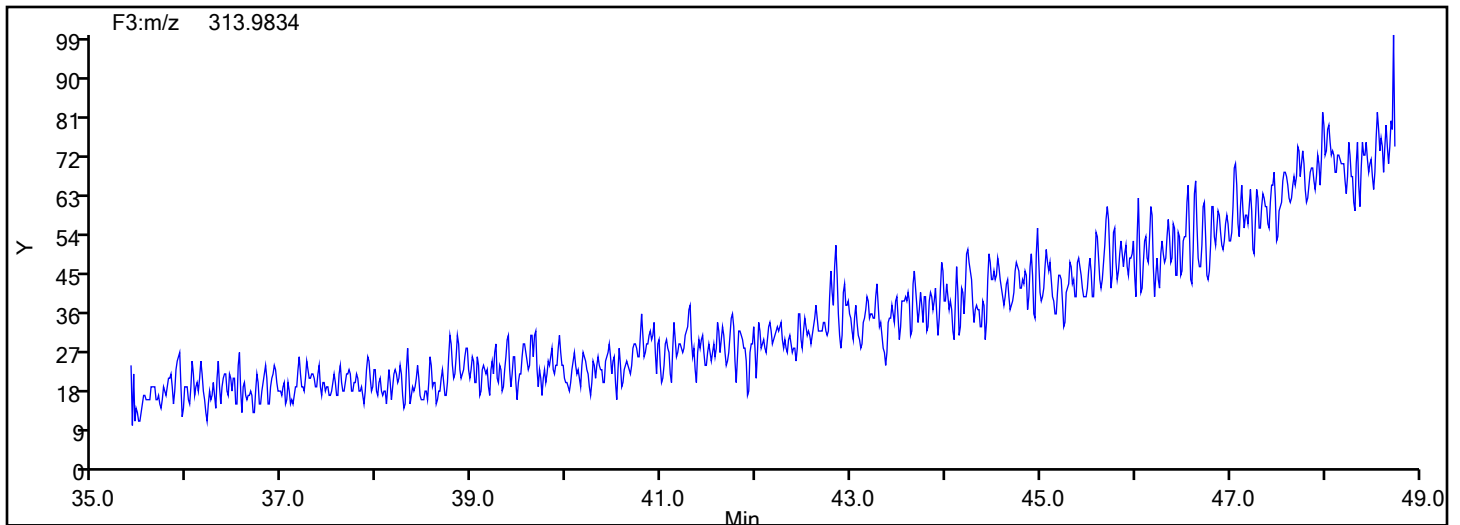
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

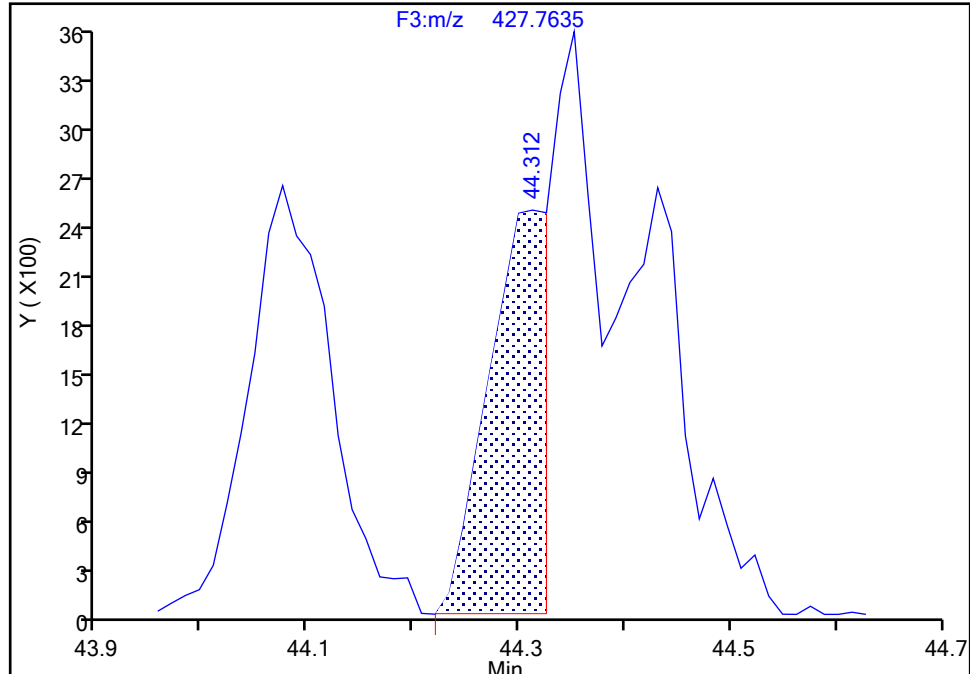
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-197, CAS: 33091-17-7

Signal: 1

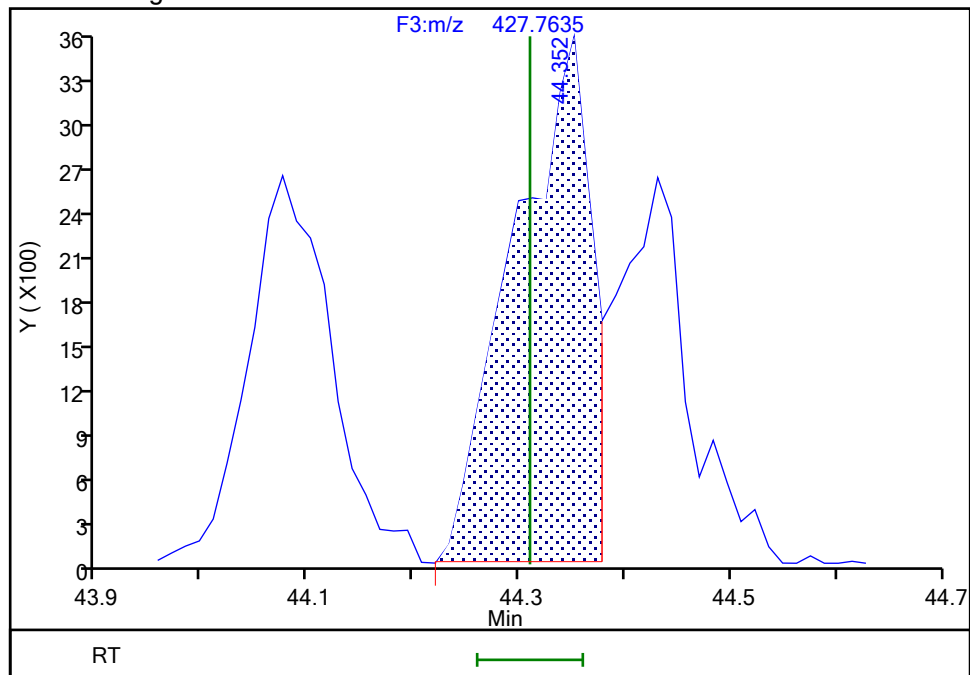
RT: 44.31
Area: 8828
Amount: 0.448021
Amount Units: pg/ul

Processing Integration Results



RT: 44.35
Area: 17650
Amount: 0.536283
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:04:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

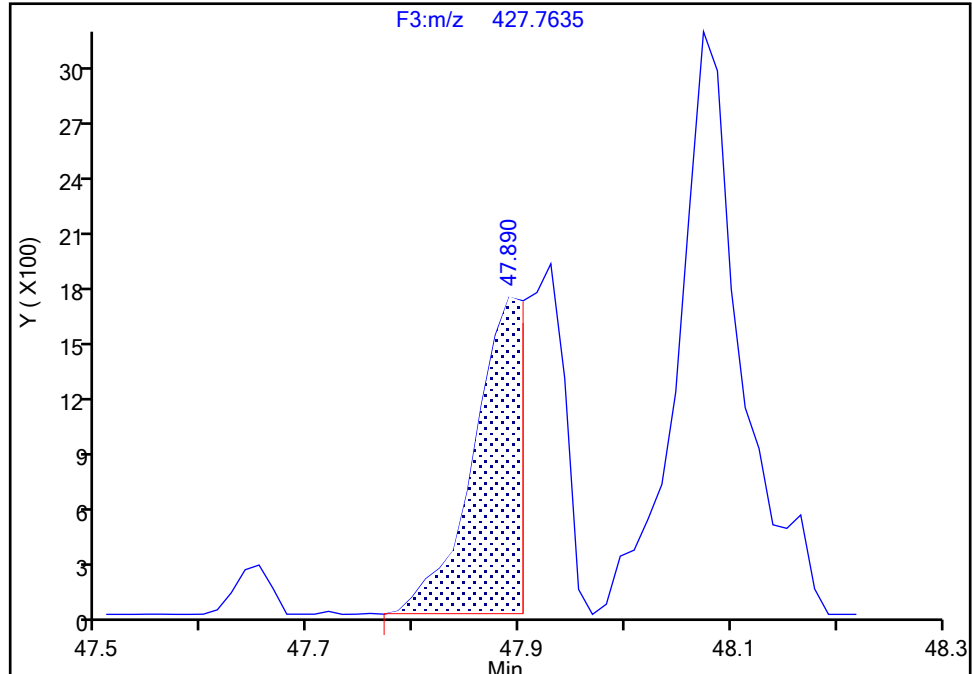
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-196, CAS: 42740-50-1

Signal: 1

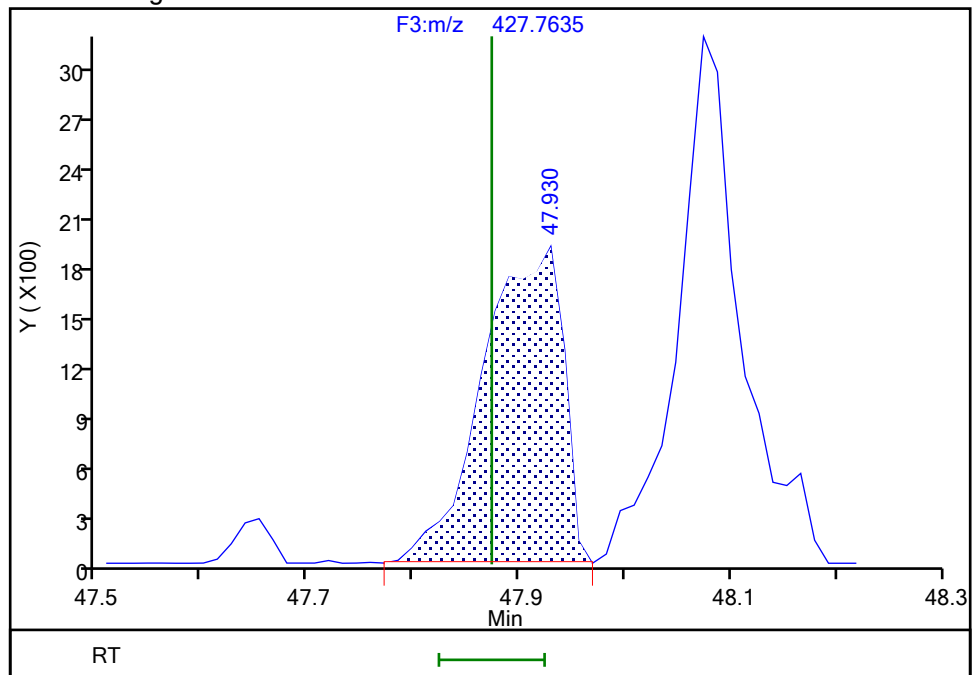
RT: 47.89
Area: 5223
Amount: 0.409421
Amount Units: pg/ul

Processing Integration Results



RT: 47.93
Area: 9747
Amount: 0.496046
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:05:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

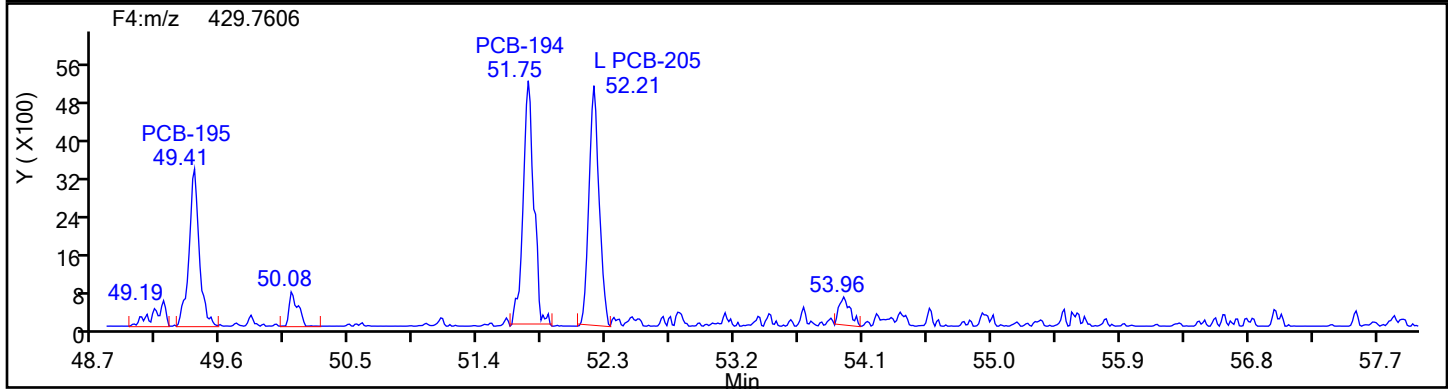
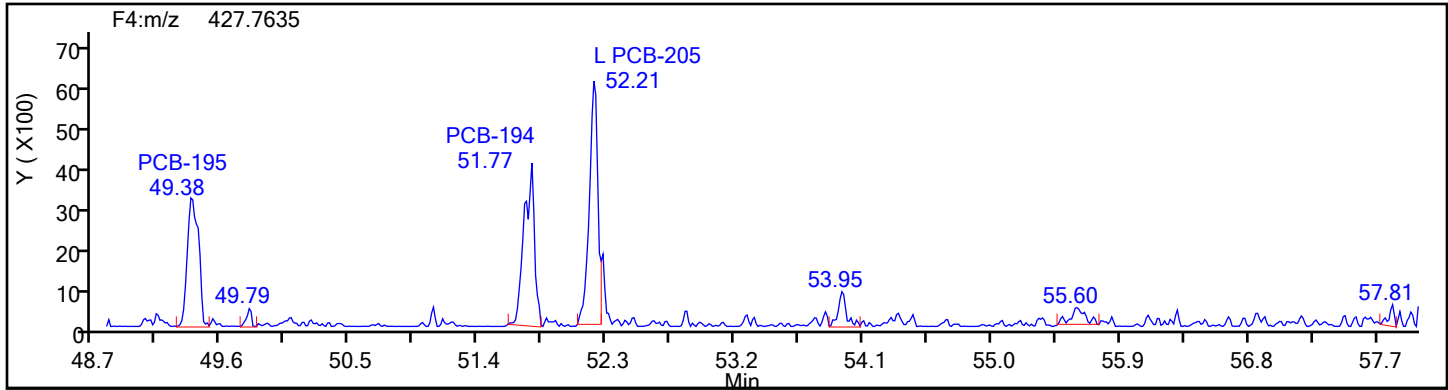
Worklist#: 87130

Sample Line#: 1

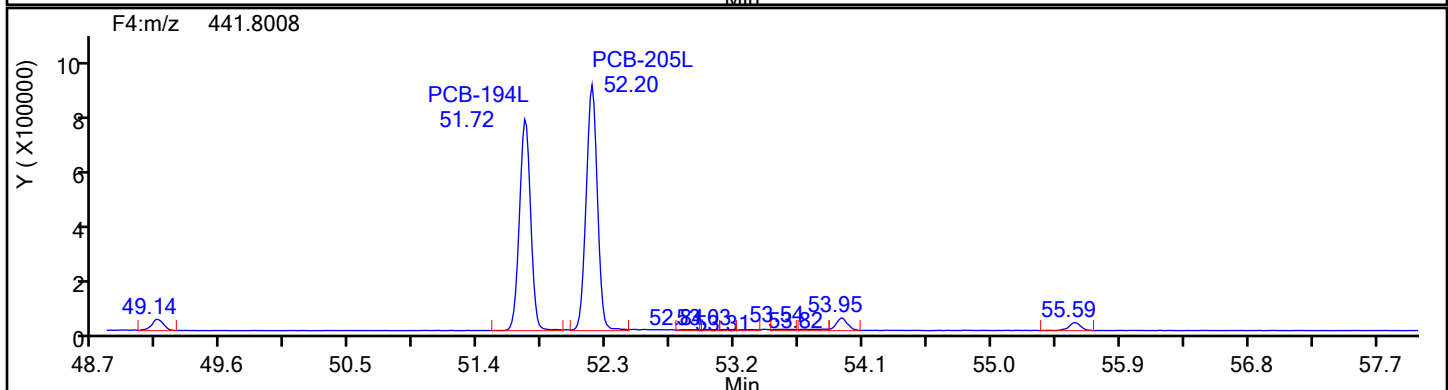
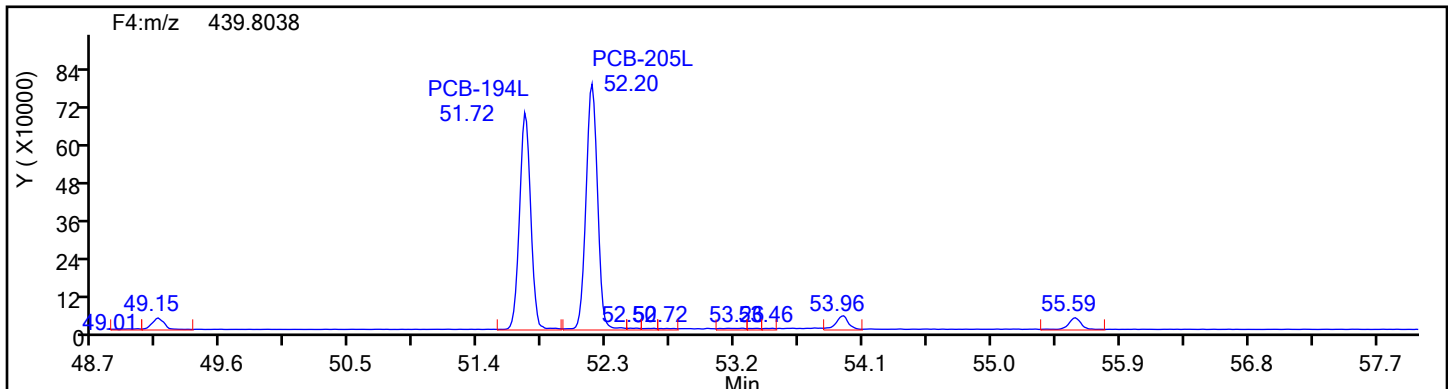
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

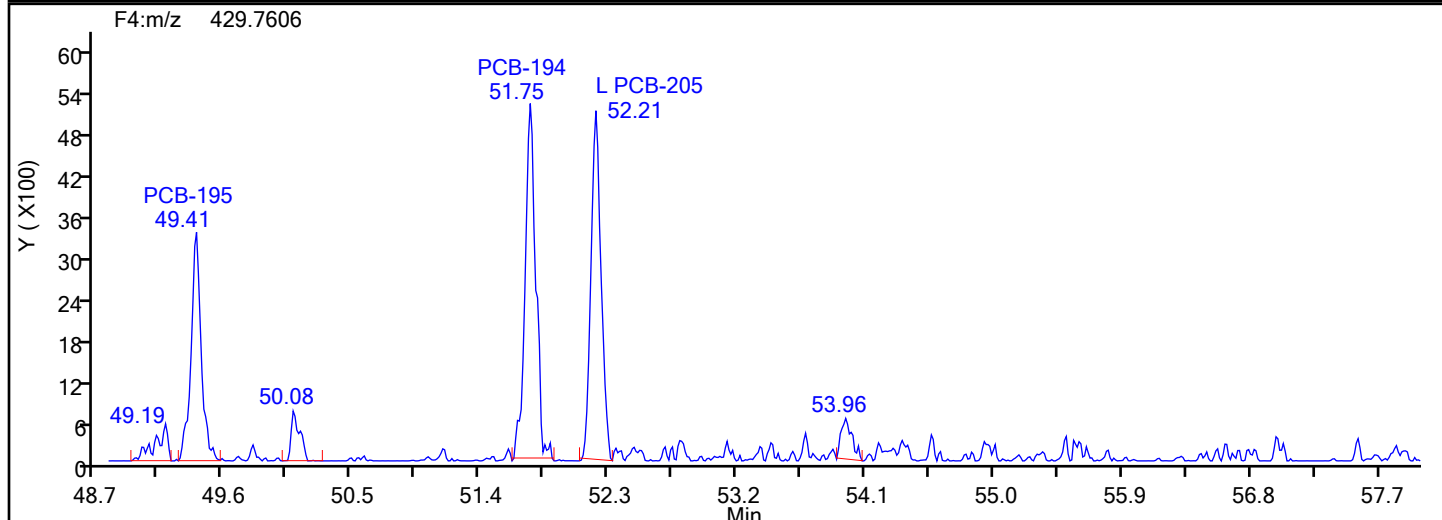
Limit Group: HR - EPA 23 PCB ICAL

Worklist#: 87130

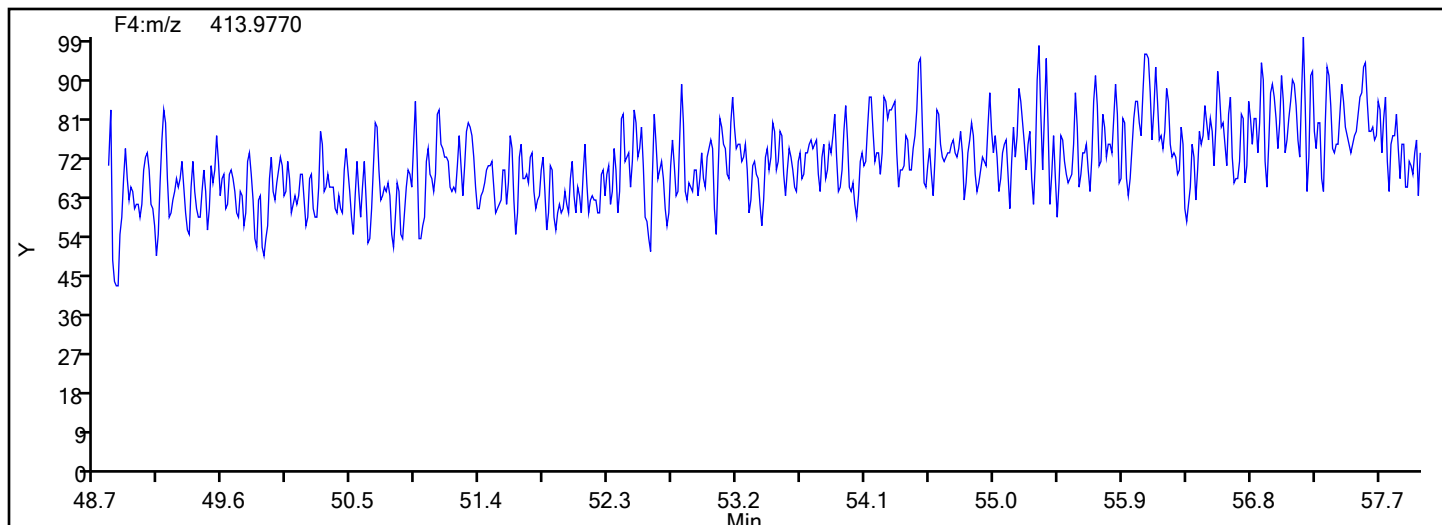
Sample Line#: 1

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

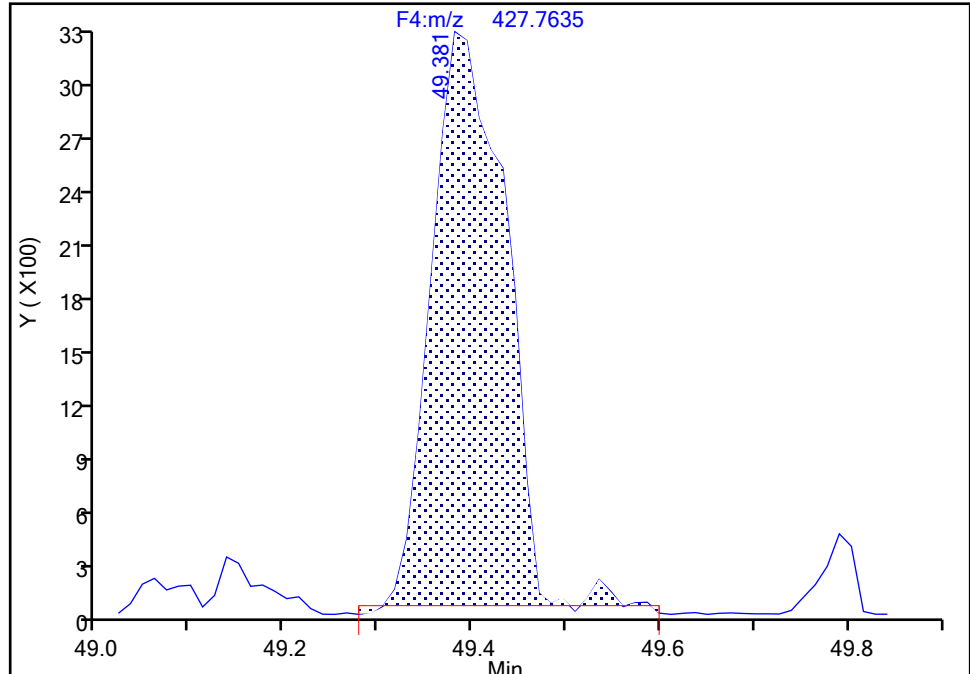
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-195, CAS: 52663-78-2

Signal: 1

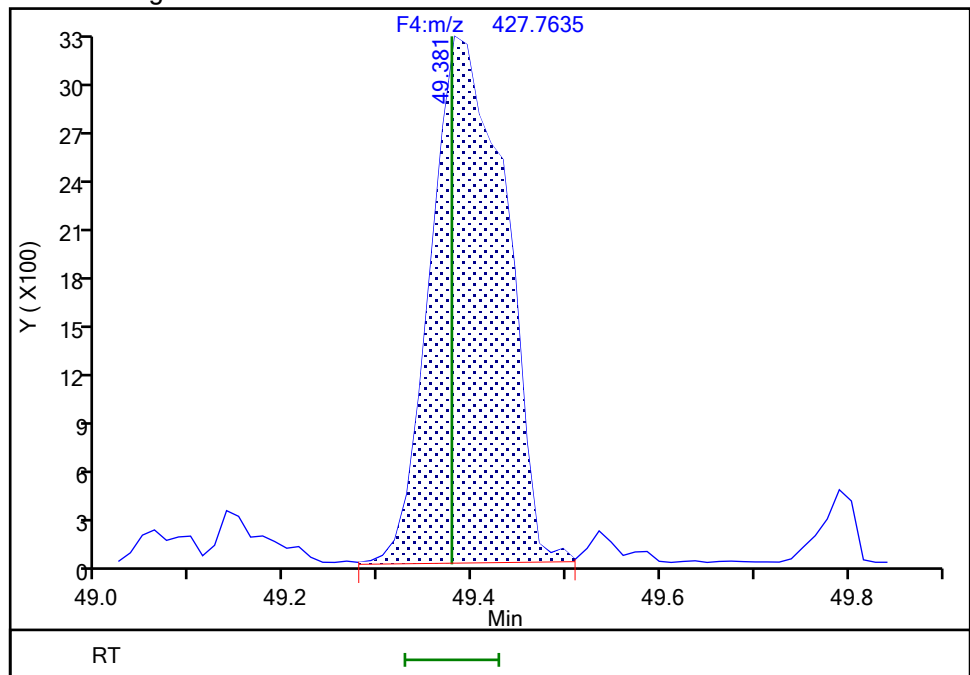
RT: 49.38
Area: 17206
Amount: 0.436356
Amount Units: pg/ul

Processing Integration Results



RT: 49.38
Area: 17759
Amount: 0.448033
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:33:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

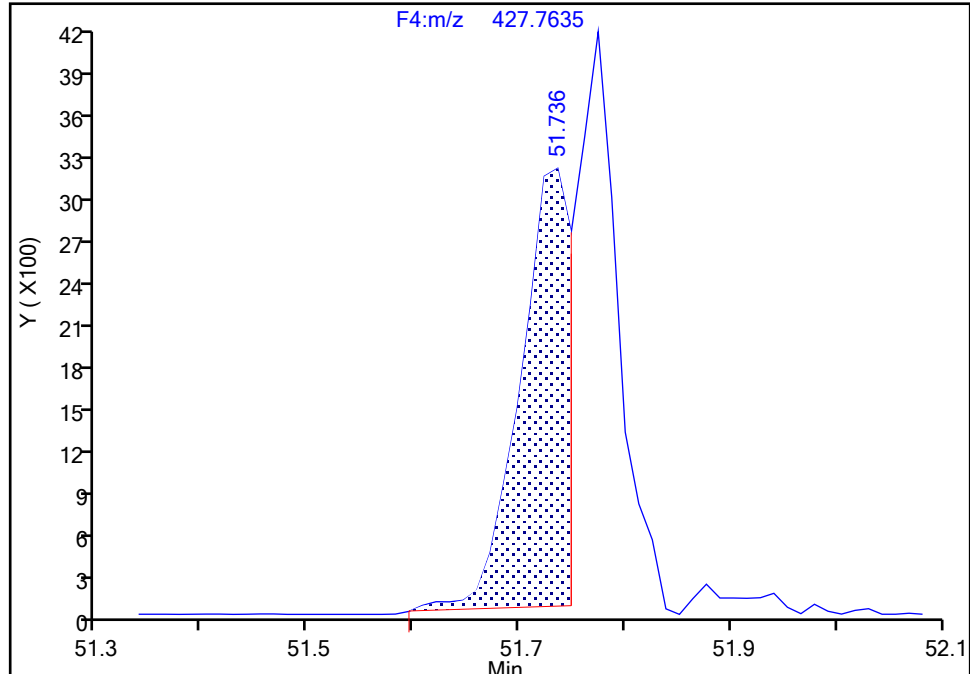
F4(49.20 :57.50)

PCB-194, CAS: 35694-08-7

Signal: 1

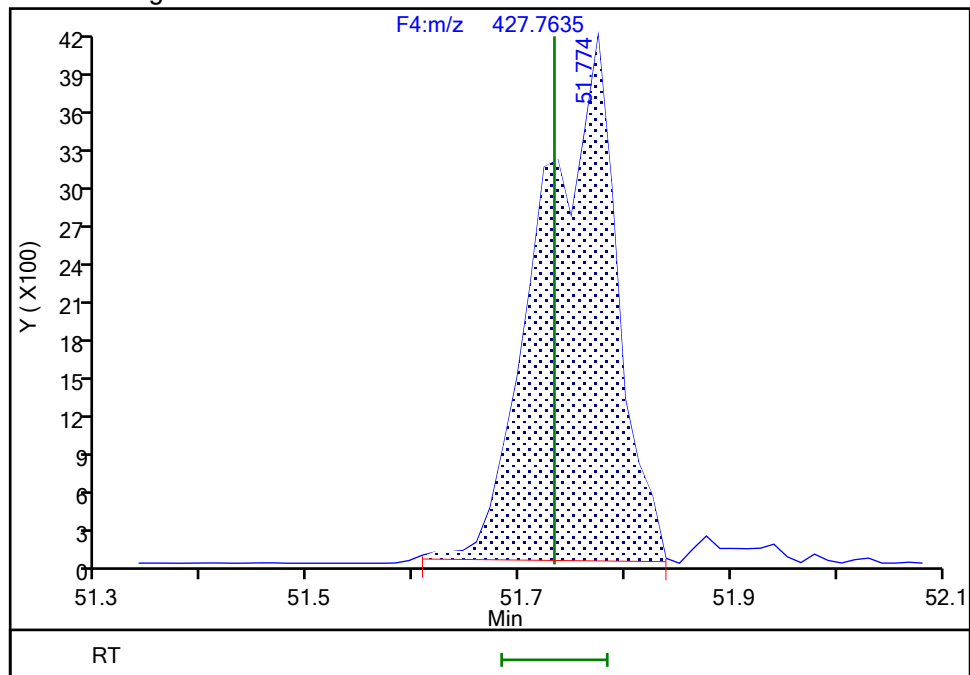
RT: 51.74
Area: 9636
Amount: 0.438844
Amount Units: pg/ul

Processing Integration Results



RT: 51.77
Area: 20698
Amount: 0.530521
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:05:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

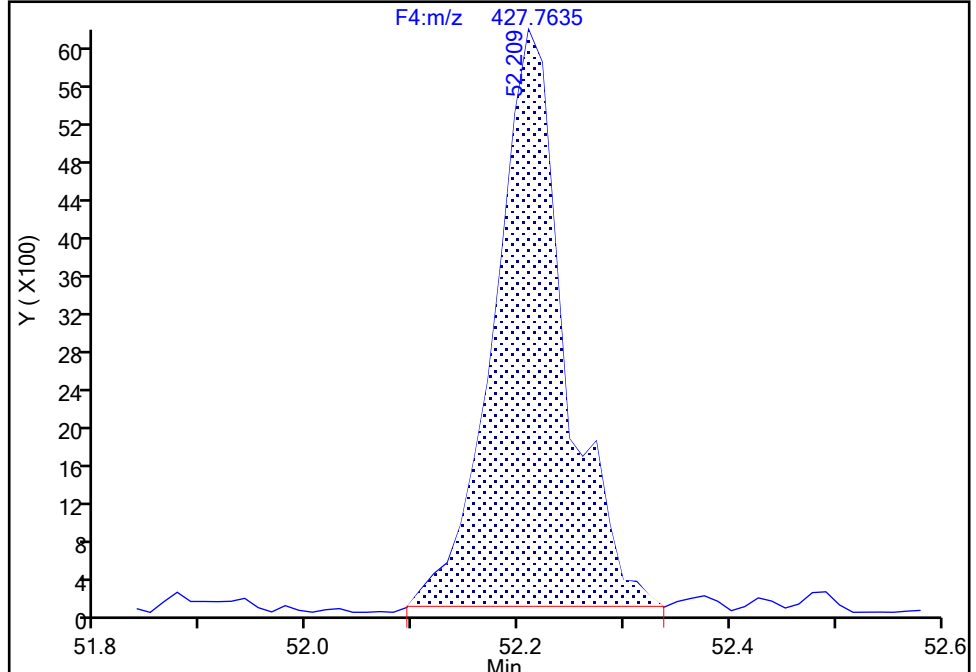
Detector F4(49.20 :57.50)

PCB-205, CAS: 74472-53-0

Signal: 1

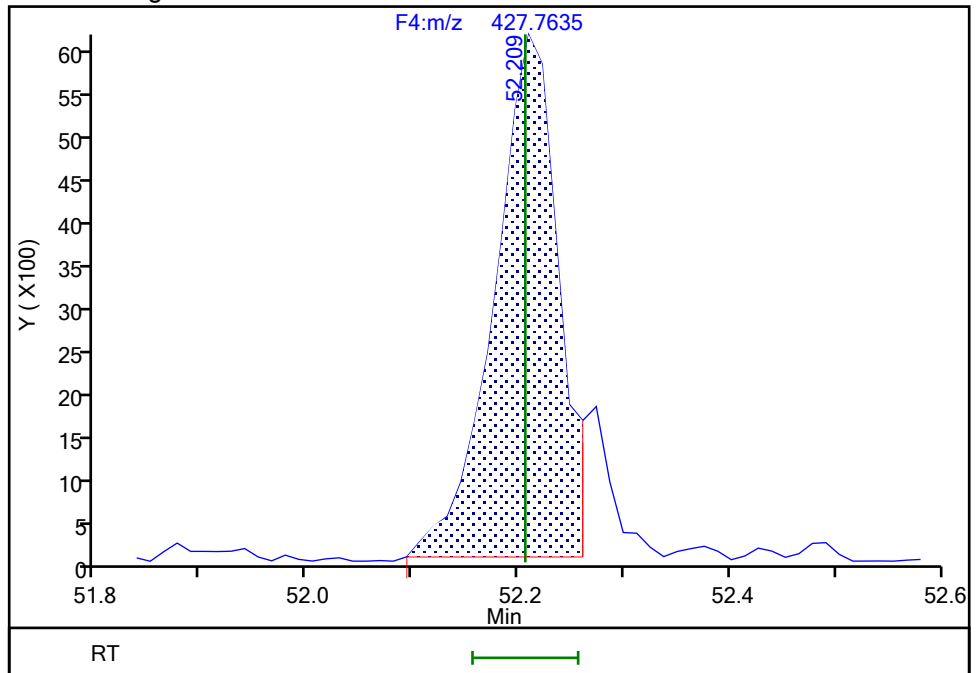
RT: 52.21
Area: 28510
Amount: 0.514801
Amount Units: pg/ul

Processing Integration Results



RT: 52.21
Area: 25496
Amount: 0.502033
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:38:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Column Dia: 0.25 mm

Eurofins Knoxville

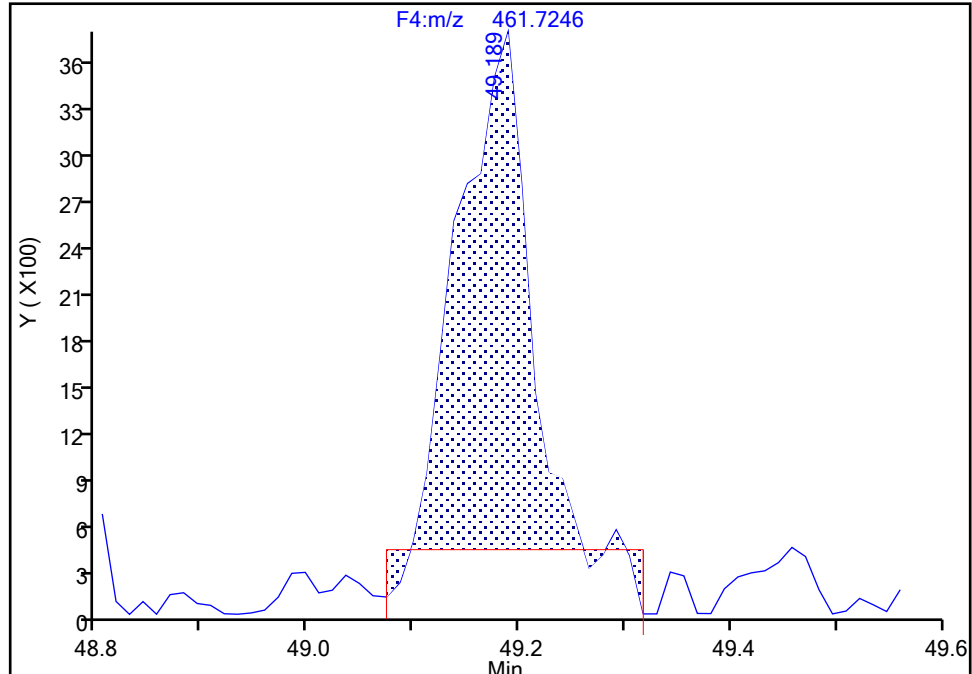
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-208, CAS: 52663-77-1

Signal: 1

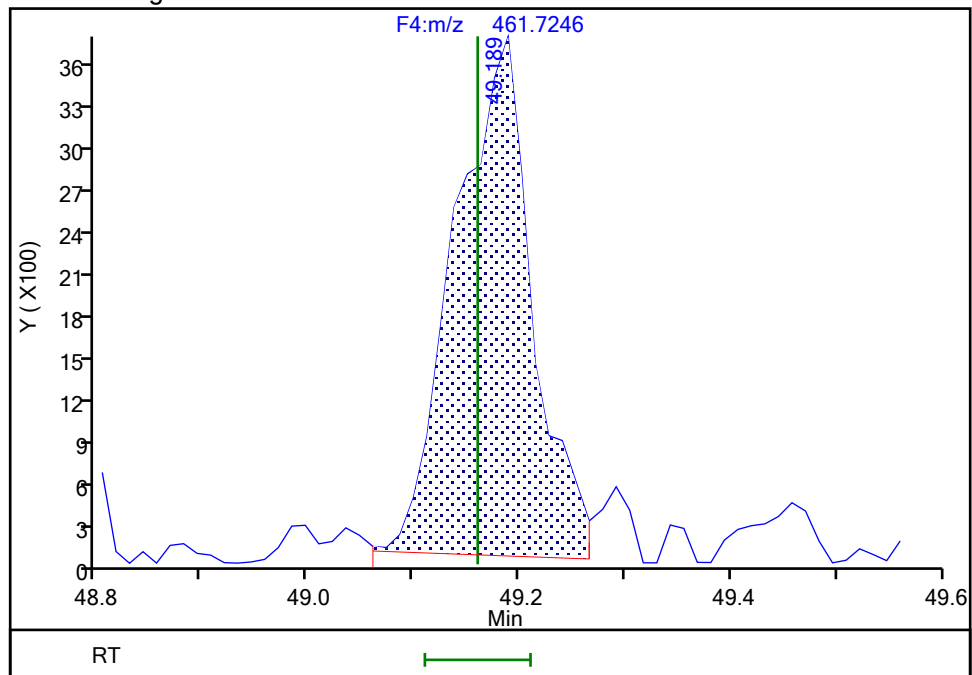
RT: 49.19
Area: 14249
Amount: 0.339411
Amount Units: pg/ul

Processing Integration Results



RT: 49.19
Area: 18598
Amount: 0.487524
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:38:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

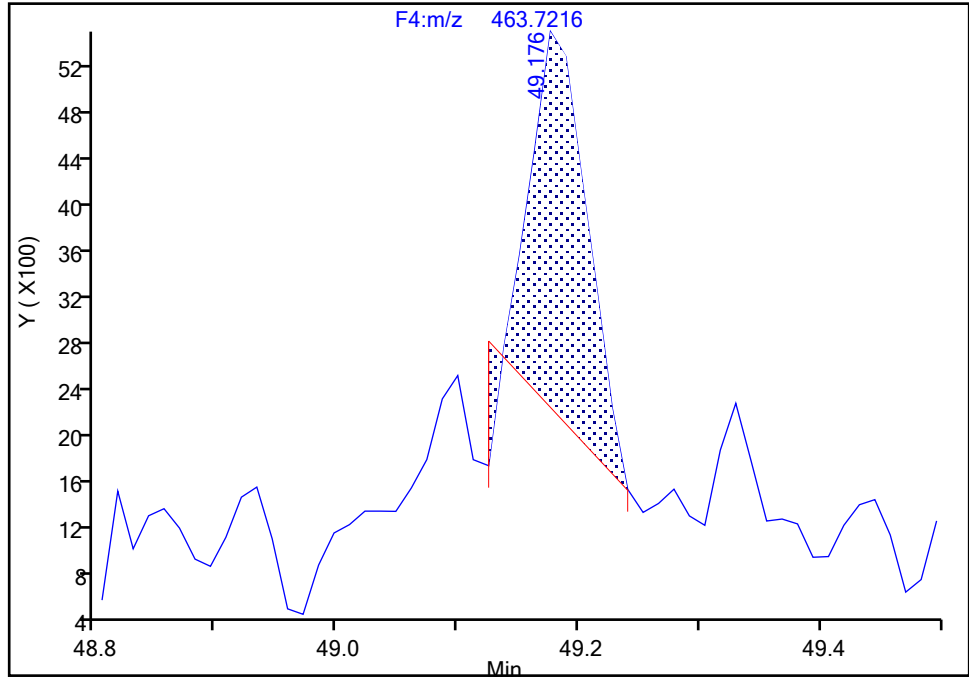
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-208, CAS: 52663-77-1

Signal: 2

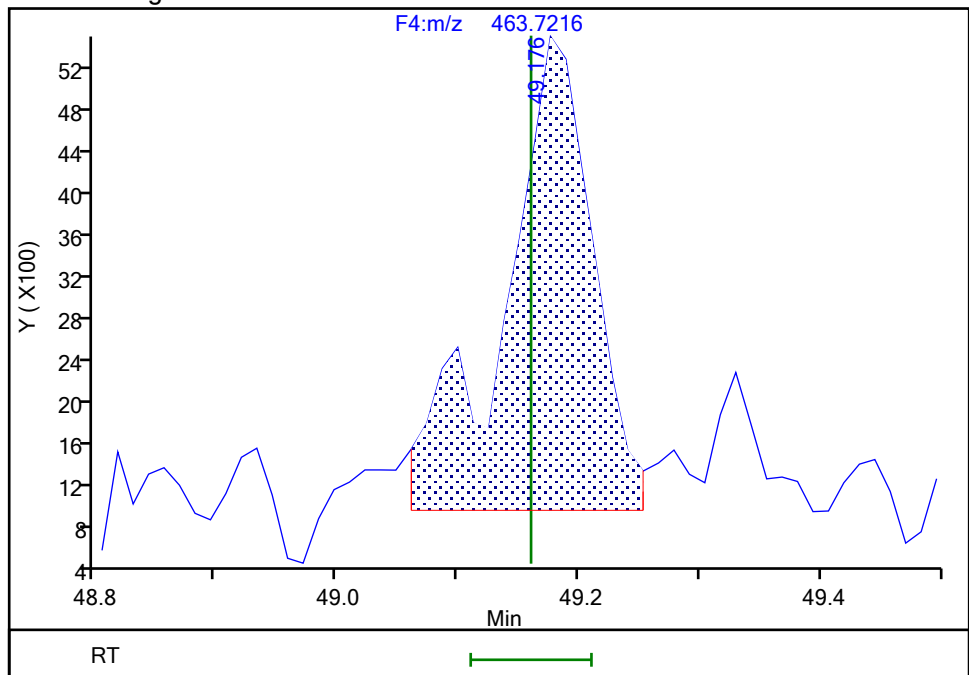
RT: 49.18
Area: 10262
Amount: 0.339411
Amount Units: pg/ul

Processing Integration Results



RT: 49.18
Area: 22997
Amount: 0.487524
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:38:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-061524-0192
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

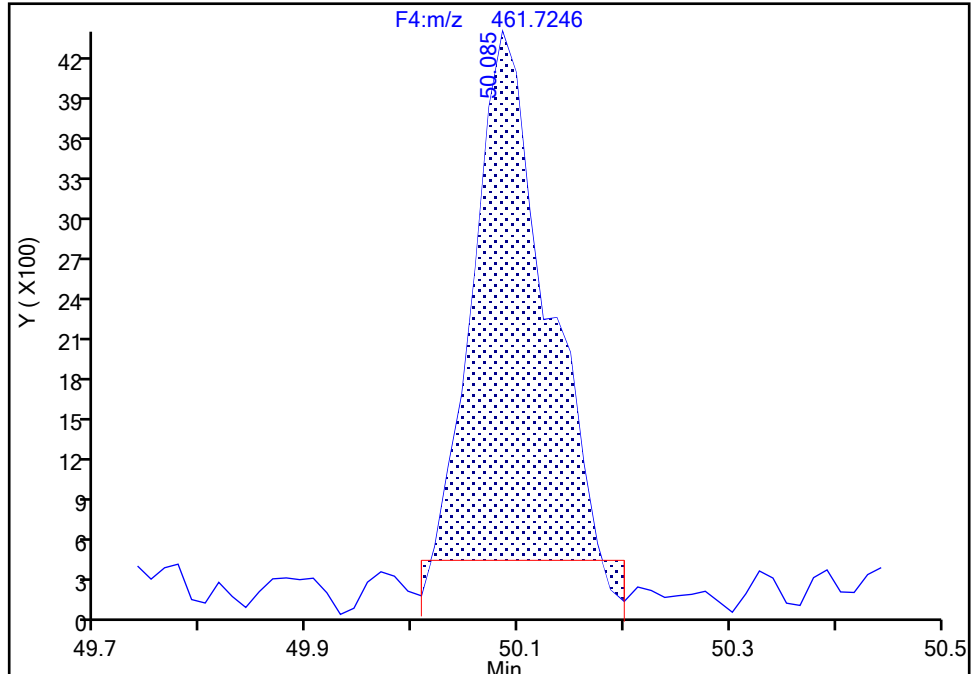
Detector F4(49.20 :57.50)

PCB-207, CAS: 52663-79-3

Signal: 1

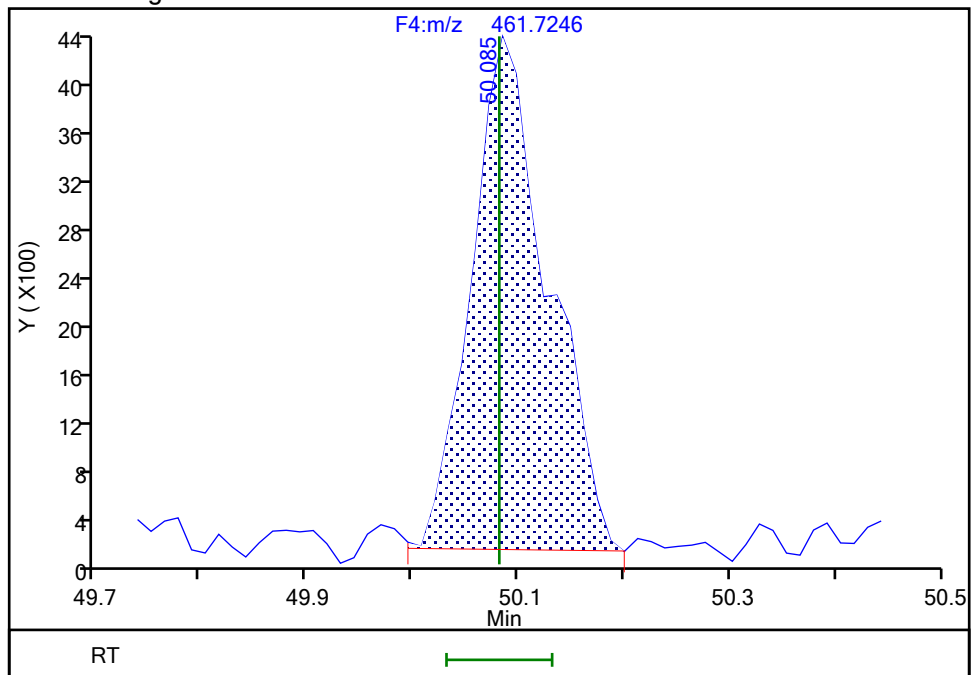
RT: 50.08
Area: 17897
Amount: 0.469716
Amount Units: pg/ul

Processing Integration Results



RT: 50.08
Area: 21467
Amount: 0.558340
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:05:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

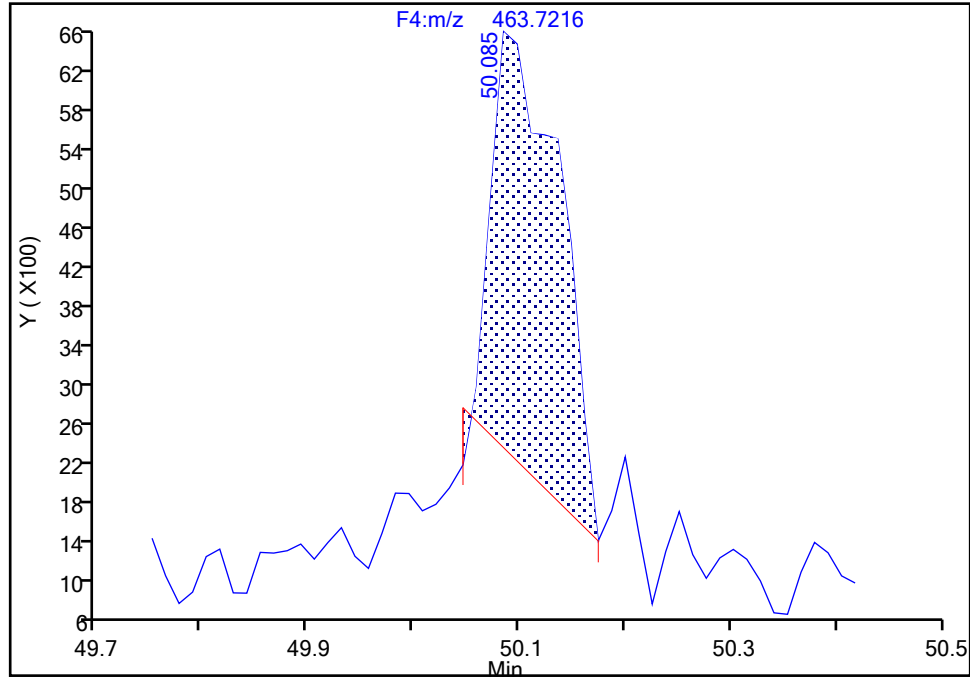
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-207, CAS: 52663-79-3

Signal: 2

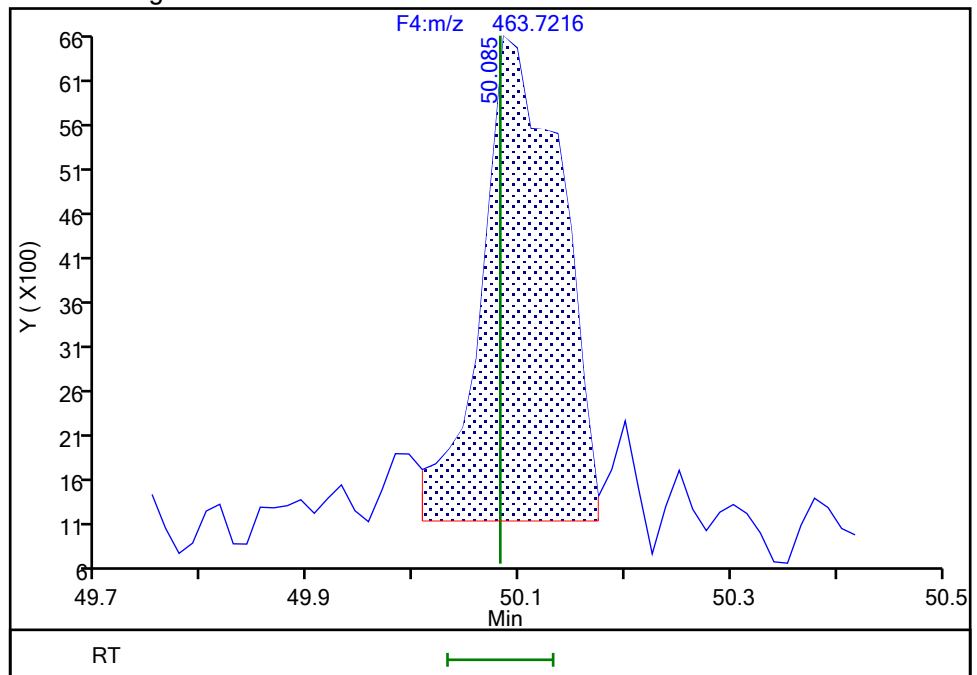
RT: 50.08
Area: 19436
Amount: 0.469716
Amount Units: pg/ul

Processing Integration Results



RT: 50.08
Area: 28459
Amount: 0.558340
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:05:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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BASFHWC-G-012-2013194
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

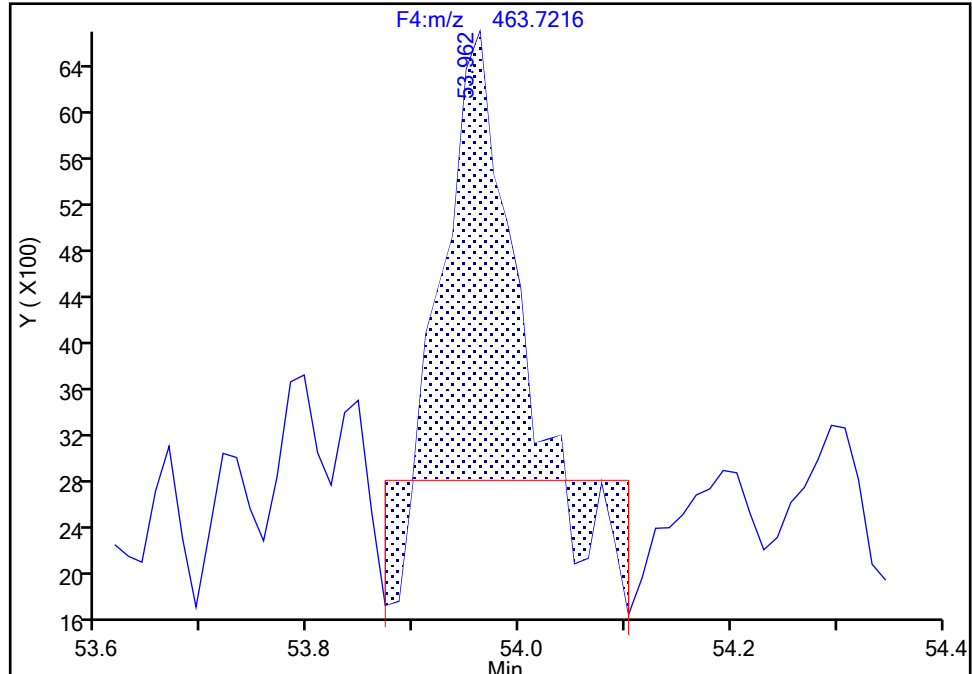
Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 2

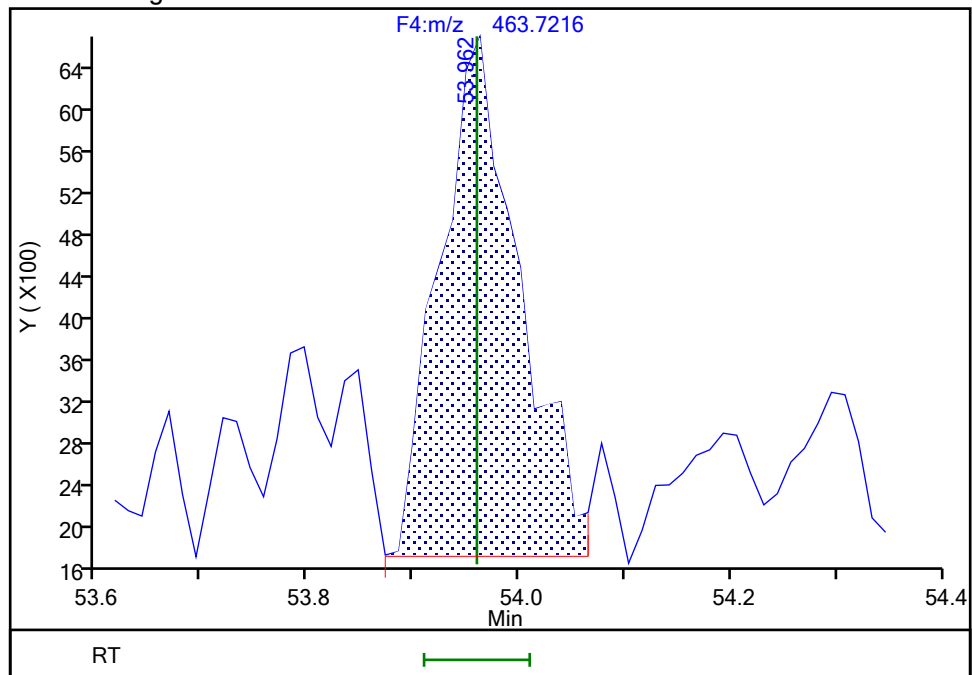
RT: 53.96
Area: 12199
Amount: 0.382448
Amount Units: pg/ul

Processing Integration Results



RT: 53.96
Area: 26155
Amount: 0.591963
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:39:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

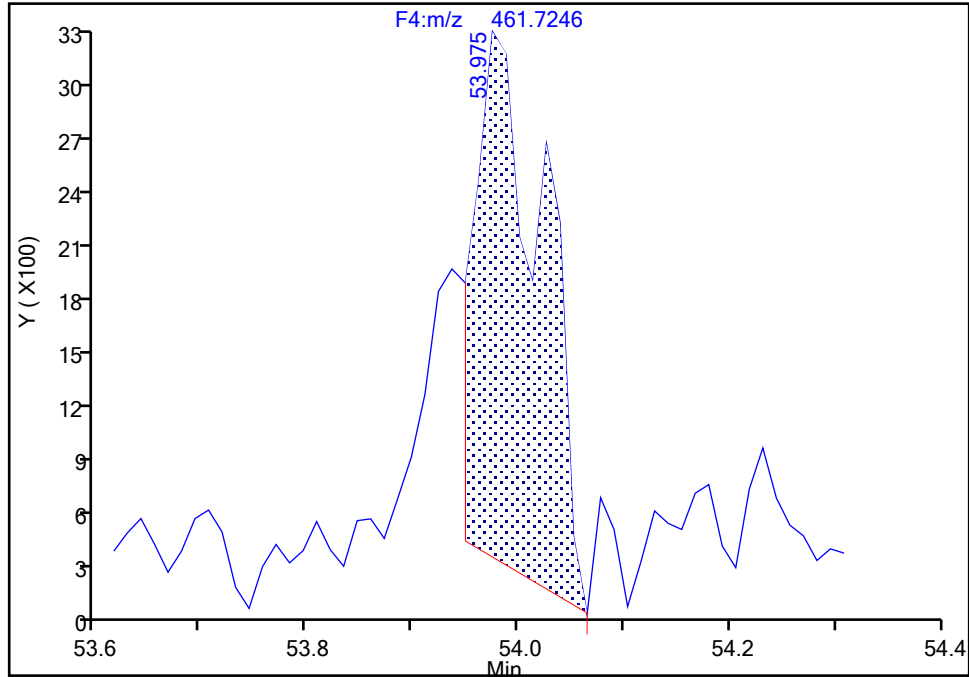
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 1

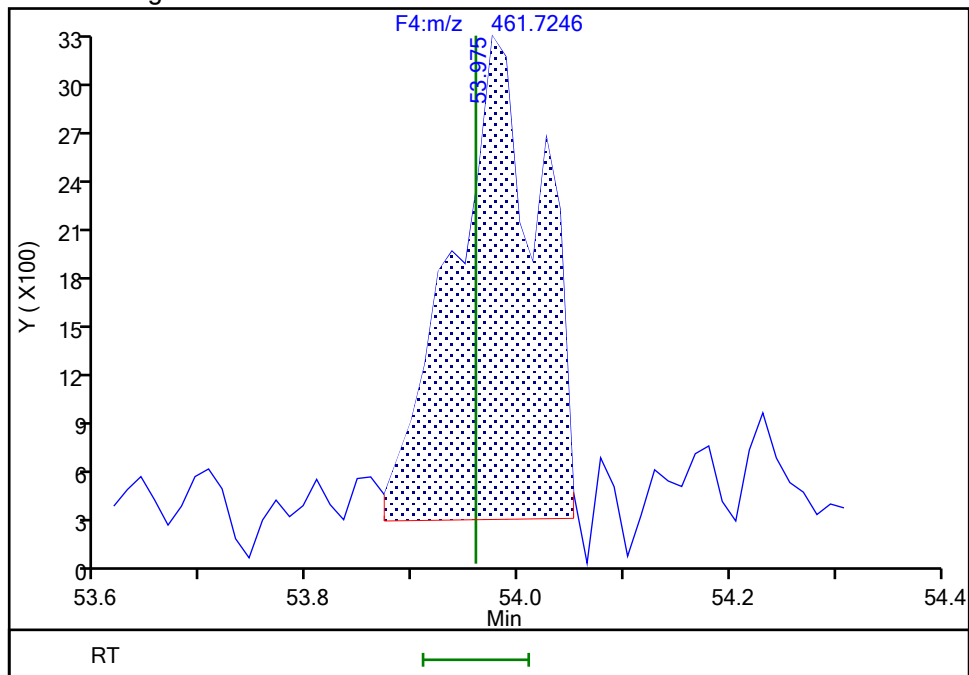
RT: 53.98
Area: 13091
Amount: 0.382448
Amount Units: pg/ul

Processing Integration Results



RT: 53.98
Area: 17294
Amount: 0.591963
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:29:56 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-012-2013196
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

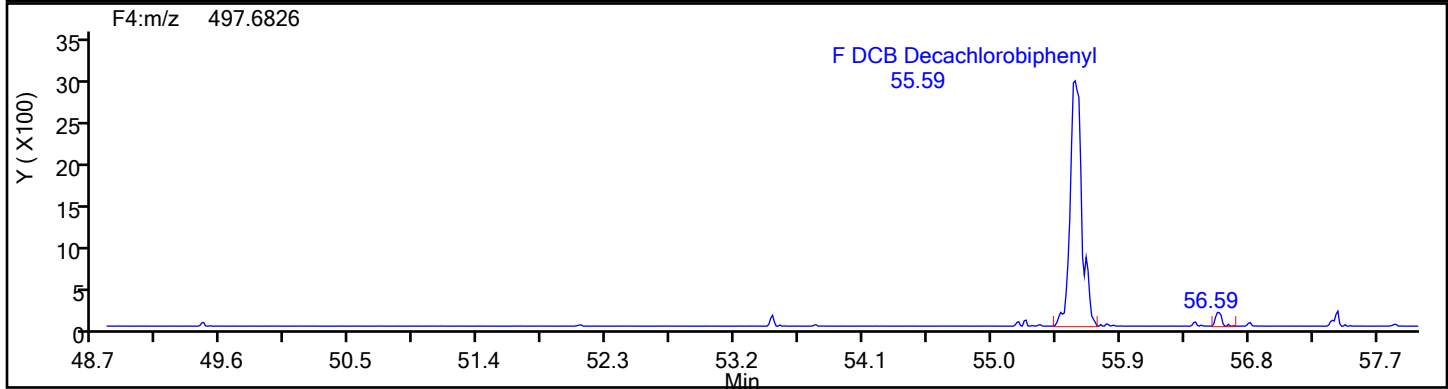
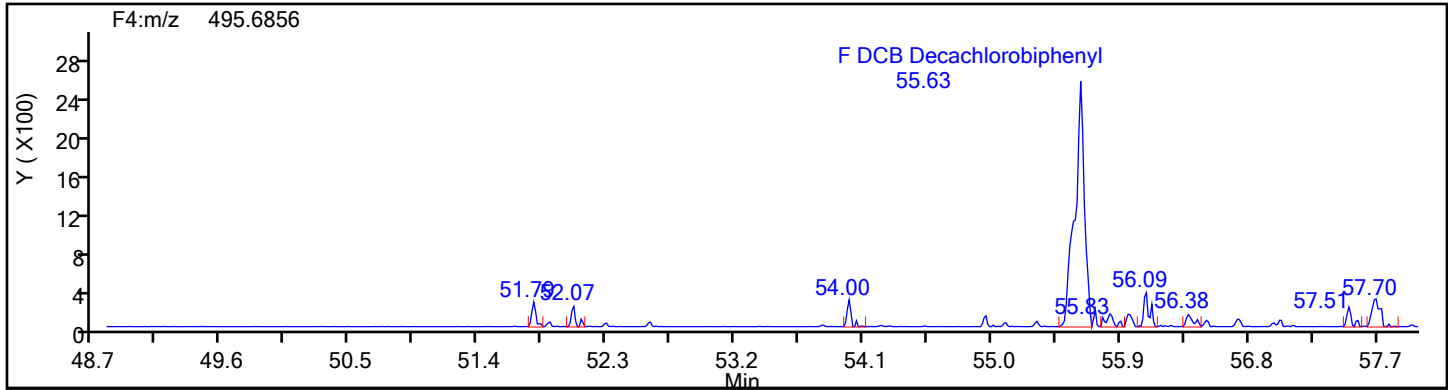
Worklist#: 87130

Sample Line#: 1

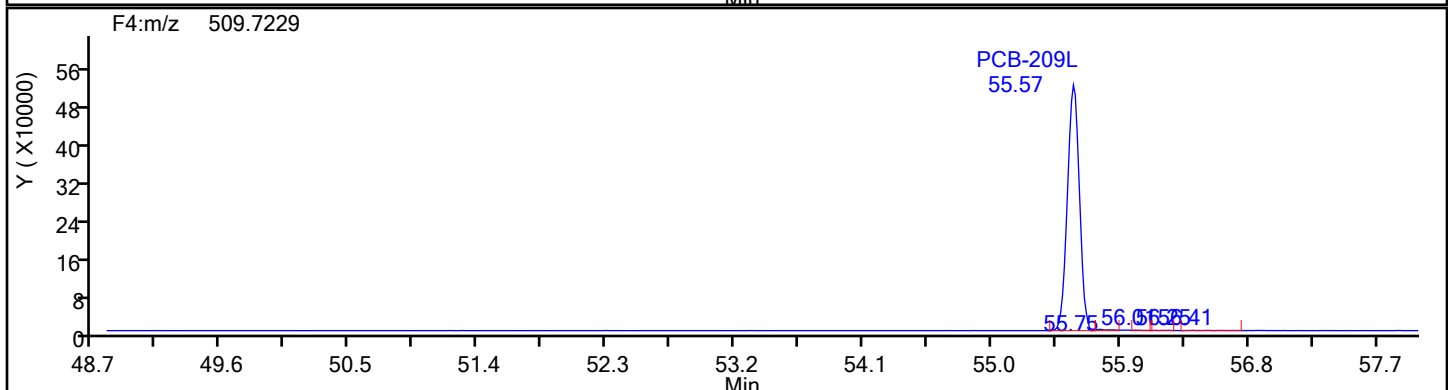
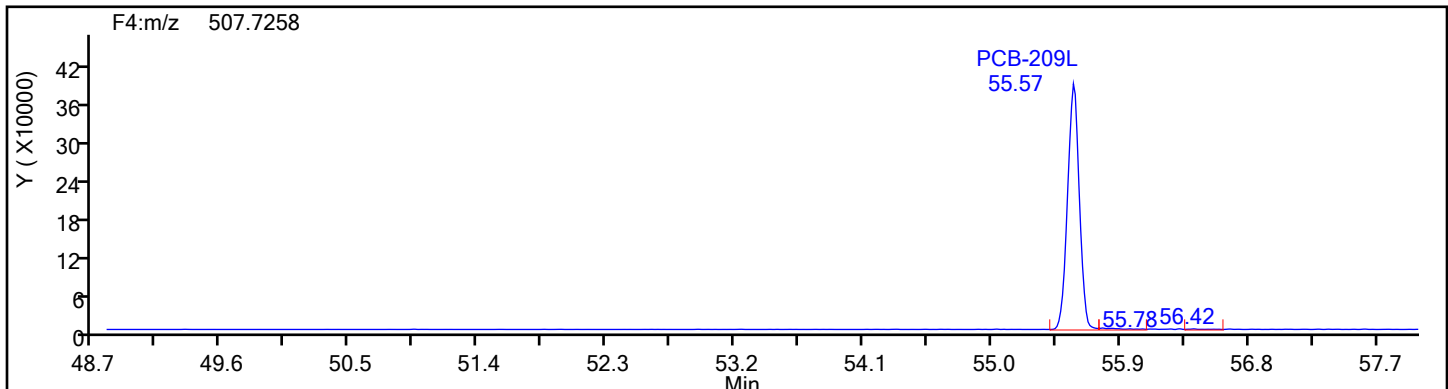
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

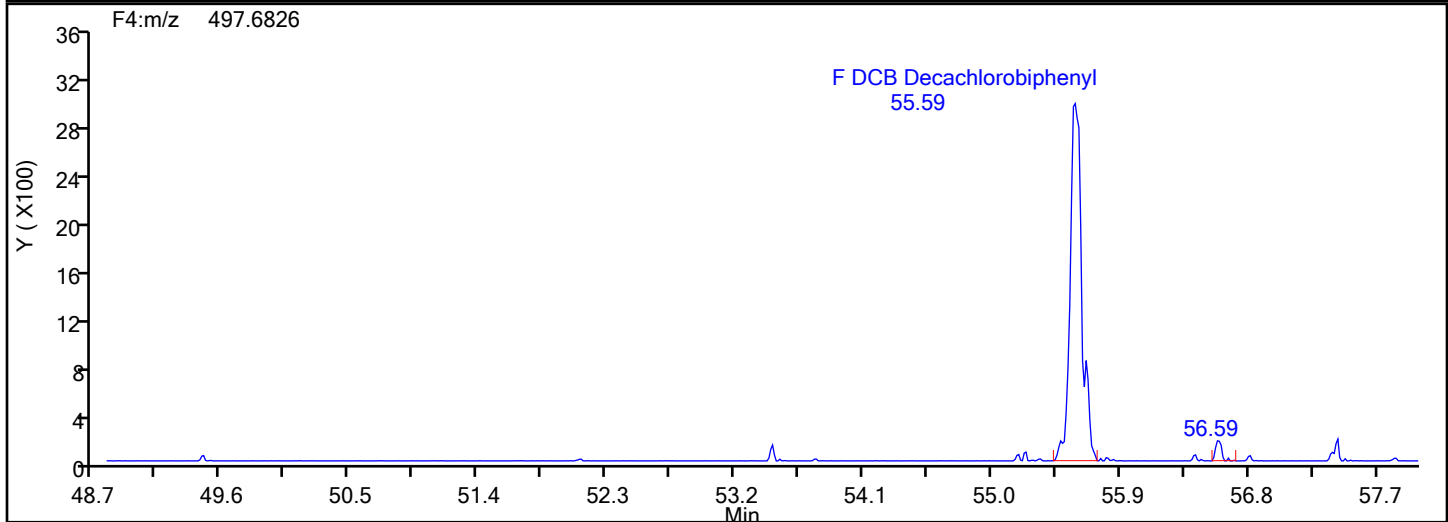
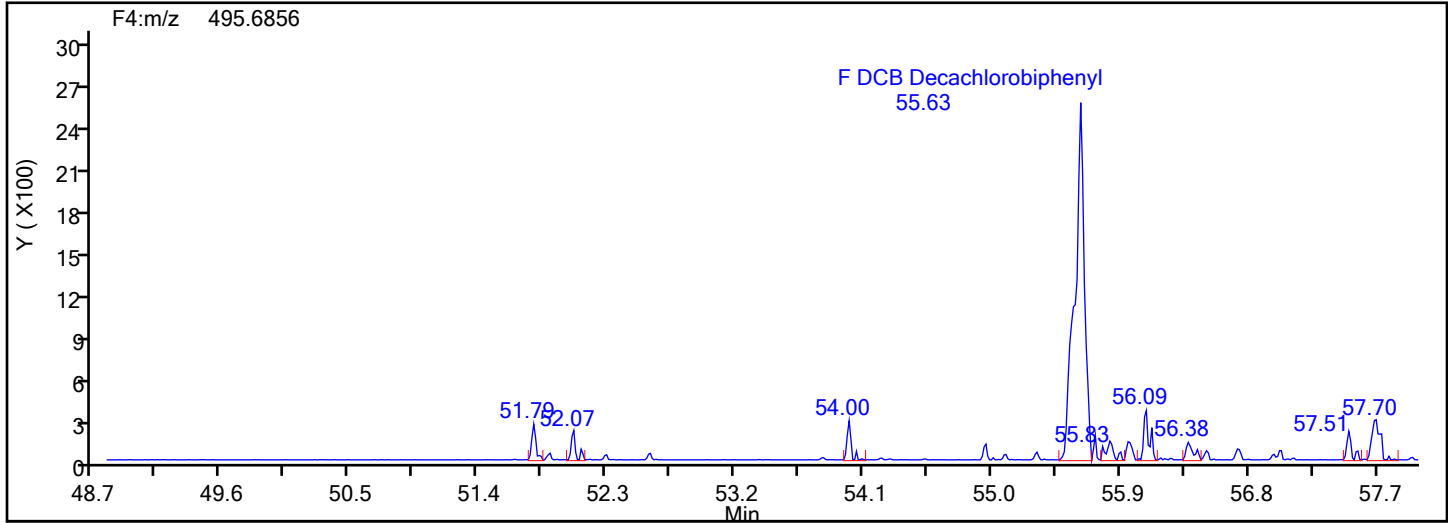
Worklist#: 87130

Sample Line#: 1

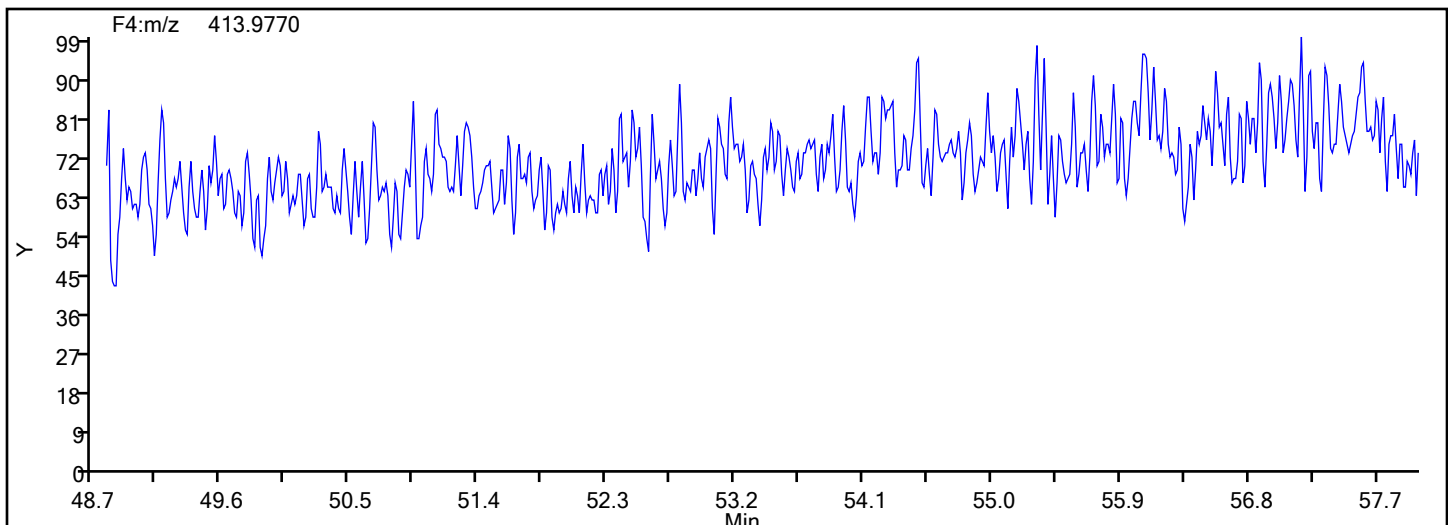
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-May-2024 16:53:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-002
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:26:42 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 19:07:23

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					2.962	2.962	0.0112	0.0112		
D PCB-1L	11:38	13411930	3.16	1.6108	99.9	99.9	0.2949	0.2949	99.88	
D PCB-3L	13:47	13166477	3.24	1.5891	99.4	99.4	0.2989	0.2989	99.39	
PCB-1	11:39	167653	3.15	1.2191	1.025	1.025	0.0100	0.0100	103	
PCB-2	13:38	152137	2.98	1.1805	0.9698	0.9698	0.0114	0.0114	96.98	
PCB-3	13:48	155451	3.08	1.2206	0.9673	0.9673	0.0122	0.0122	96.73	
S Total Dichlorobiphenyls					11.7	11.4	0.004935	0.004935		RQ
D PCB-4L	14:03	5442766	1.62	0.6475	100.8	100.8	0.0919	0.0919	101	
* PCB-9L	16:01	8336299	1.63		100.0	100.0				
D PCB-15L	19:56	8819361	1.63	1.0789	98.1	98.1	0.0552	0.0552	98.05	
PCB-4	14:04	71281	1.69	1.2818	1.022	1.022	0.005795	0.005795	102	
PCB-10	14:14	90939	1.57	1.3149	0.9699	0.9699	0.005163	0.005163	96.99	
PCB-9	16:01	101769	1.52	1.4224	1.003	1.003	0.004772	0.004772	100	
PCB-7	16:12	90721	1.56	1.4134	0.990	0.9001	0.004803	0.004803	99.01	RQ
PCB-6	16:26	97620	1.56	1.5421	0.9891	0.8877	0.004402	0.004402	98.91	RQM
PCB-5	16:45	93073	1.75	1.3395	0.9744	0.9744	0.005068	0.005068	97.44	
PCB-8	16:52	108520	1.52	1.5889	0.9578	0.9578	0.004273	0.004273	95.78	
PCB-14	18:30	95706	1.69	1.4025	0.9570	0.9570	0.004840	0.004840	95.70	
PCB-11	19:20	75686	1.56	1.2951	0.9055	0.8195	0.005242	0.005242	90.55	RQ
PCB-12	19:38	181643	1.57	1.3358	1.907	1.907	0.005082	0.005082	95.34	
PCB-13 (C12)	19:38	181643	1.57	1.3358	1.907	1.907	0.005082	0.005082	95.34	
PCB-15	19:57	113904	1.54	1.2903	1.001	1.001	0.004844	0.004844	100	
S Total Trichlorobiphenyls					23.6	23.5	0.0336	0.0336		RQ
D PCB-19L	17:09	3424036	1.04	0.6285	102.9	102.9	0.4510	0.4510	103	
* PCB-32L	20:24	5295691	1.10		100.0	100.0				
* PCB-31L	22:40	15100361	1.04		100.0	100.0				
D PCB-37L	26:57	13255798	1.07	0.8749	100.3	100.3	0.1254	0.1254	100	
PCB-19	17:10	37931	1.09	1.2809	0.8649	0.8649	0.0107	0.0107	86.49	
PCB-18	19:00	119625	1.07	1.7652	1.979	1.979	0.007794	0.007794	98.96	
PCB-30 (C18)	19:00	119625	1.07	1.7652	1.979	1.979	0.007794	0.007794	98.96	
PCB-17	19:27	43052	1.03	1.2430	1.012	1.012	0.0111	0.0111	101	
PCB-27	19:40	61773	1.11	1.8327	0.9844	0.9844	0.007507	0.007507	98.44	
PCB-24	19:48	55539	1.02	1.6777	0.9668	0.9668	0.008201	0.008201	96.68	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:54	32476	1.04	1.1286	0.9420	0.8404	0.0122	0.0122	94.20	RQ
PCB-32	20:25	60227	1.04	1.8324	0.9599	0.9599	0.007508	0.007508	95.99	
PCB-34	21:41	145822	1.01	1.1277	0.9755	0.9755	0.0471	0.0471	97.55	
PCB-23	21:50	148152	1.12	1.0813	1.034	1.034	0.0491	0.0491	103	
PCB-26	22:09	296674	1.06	1.1255	1.989	1.989	0.0472	0.0472	99.43	
PCB-29 (C26)	22:09	296674	1.06	1.1255	1.989	1.989	0.0472	0.0472	99.43	
PCB-25	22:22	160869	1.03	1.2728	0.9535	0.9535	0.0417	0.0417	95.35	
PCB-31	22:41	160841	1.12	1.1532	1.052	1.052	0.0460	0.0460	105	
PCB-20	23:00	298348	0.95	1.1718	1.921	1.921	0.0453	0.0453	96.04	
PCB-28 (C20)	23:00	298348	0.95	1.1718	1.921	1.921	0.0453	0.0453	96.04	
PCB-21	23:09	281992	1.02	1.0746	1.980	1.980	0.0494	0.0494	98.98	M
PCB-33 (C21)	23:09	281992	1.02	1.0746	1.980	1.980	0.0494	0.0494	98.98	M
PCB-22	23:37	164376	1.03	1.1932	1.039	1.039	0.0445	0.0445	104	
PCB-36	25:11	150690	1.02	1.1071	1.027	1.027	0.0480	0.0480	103	
PCB-39	25:31	150829	1.11	1.1581	0.9825	0.9825	0.0458	0.0458	98.25	
PCB-38	26:06	142649	1.08	1.0843	0.992	0.992	0.0490	0.0490	99.24	M
PCB-35	26:35	142742	1.10	1.1297	0.9532	0.9532	0.0470	0.0470	95.32	
PCB-37	26:59	148485	1.10	1.1435	0.9796	0.9796	0.0464	0.0464	97.96	
S Total Tetrachlorobiphenyls					41.7	41.6	0.0899	0.0899		RQ
D PCB-54L	20:14	3010951	0.81	0.5562	102.2	102.2	0.0518	0.0518	102	M
* PCB-52L	24:47	7714563	0.80		100.0	100.0				
D PCB-81L	33:42	9378026	0.80	1.2470	97.5	97.5	0.1077	0.1077	97.49	
D PCB-77L	34:16	9952597	0.81	1.3212	97.6	97.6	0.1016	0.1016	97.65	
PCB-54	20:15	39894	0.73	1.2733	1.041	1.041	0.004787	0.004787	104	M
PCB-50	22:26	160495	0.77	0.8578	1.936	1.936	0.1157	0.1157	96.79	
PCB-53 (C50)	22:26	160495	0.77	0.8578	1.936	1.936	0.1157	0.1157	96.79	
PCB-45	23:10	157715	0.85	0.8264	1.974	1.974	0.1201	0.1201	98.72	M
PCB-51 (C45)	23:10	157715	0.85	0.8264	1.974	1.974	0.1201	0.1201	98.72	M
PCB-46	23:24	65825	0.86	0.7101	0.9591	0.9591	0.1397	0.1397	95.91	
PCB-52	24:48	87733	0.73	0.9194	0.9873	0.9873	0.1079	0.1079	98.73	
PCB-43	24:58	200228	0.75	1.0333	2.005	2.005	0.0960	0.0960	100	M
PCB-73 (C43)	24:58	200228	0.75	1.0333	2.005	2.005	0.0960	0.0960	100	M
PCB-49	25:15	201895	0.78	1.0685	1.955	1.955	0.0928	0.0928	97.74	M
PCB-69 (C49)	25:15	201895	0.78	1.0685	1.955	1.955	0.0928	0.0928	97.74	M
PCB-48	25:36	83950	0.76	0.8399	1.034	1.034	0.1181	0.1181	103	
PCB-44	25:49	277857	0.79	0.9731	2.954	2.954	0.1020	0.1020	98.48	
PCB-47 (C44)	25:49	277857	0.79	0.9731	2.954	2.954	0.1020	0.1020	98.48	
PCB-65 (C44)	25:49	277857	0.79	0.9731	2.954	2.954	0.1020	0.1020	98.48	
PCB-59	26:07	331263	0.74	1.1853	2.892	2.892	0.0837	0.0837	96.39	
PCB-62 (C59)	26:07	331263	0.74	1.1853	2.892	2.892	0.0837	0.0837	96.39	
PCB-75 (C59)	26:07	331263	0.74	1.1853	2.892	2.892	0.0837	0.0837	96.39	
PCB-42	26:19	79410	0.86	0.8097	1.015	1.015	0.1225	0.1225	101	
PCB-40	26:50	252584	0.85	0.8863	2.948	2.948	0.1119	0.1119	98.28	M
PCB-41 (C40)	26:50	252584	0.85	0.8863	2.948	2.948	0.1119	0.1119	98.28	M
PCB-71 (C40)	26:50	252584	0.85	0.8863	2.948	2.948	0.1119	0.1119	98.28	M
PCB-64	27:04	121326	0.74	1.1776	1.066	1.066	0.0843	0.0843	107	M
PCB-72	27:53	102800	0.84	1.0943	0.9720	0.9720	0.0907	0.0907	97.20	
PCB-68	28:11	120639	0.80	1.2533	0.996	0.996	0.0792	0.0792	99.59	
PCB-57	28:35	107838	0.84	1.0818	1.031	1.031	0.0917	0.0917	103	
PCB-58	28:50	117702	0.87	1.3253	0.9188	0.9188	0.0749	0.0749	91.88	
PCB-67	28:59	136003	0.88	1.4230	0.9888	0.9888	0.0697	0.0697	98.88	
PCB-63	29:15	113672	0.81	1.1240	1.046	1.046	0.0883	0.0883	105	
PCB-61	29:36	472477	0.81	1.2612	3.876	3.876	0.0787	0.0787	96.90	M
PCB-70 (C61)	29:36	472477	0.81	1.2612	3.876	3.876	0.0787	0.0787	96.90	M
PCB-74 (C61)	29:36	472477	0.81	1.2612	3.876	3.876	0.0787	0.0787	96.90	M
PCB-76 (C61)	29:36	472477	0.81	1.2612	3.876	3.876	0.0787	0.0787	96.90	M
PCB-66	29:55	109748	0.77	1.2583	0.9790	0.9024	0.0788	0.0788	97.90	RQ
PCB-55	30:05	119512	0.82	1.3236	0.9342	0.9342	0.0750	0.0750	93.42	
PCB-56	30:35	112603	0.78	1.2334	0.9446	0.9446	0.0804	0.0804	94.46	
PCB-60	30:49	120369	0.66	1.1230	1.109	1.109	0.0883	0.0883	111	
PCB-80	31:13	128092	0.83	1.3243	1.001	1.001	0.0749	0.0749	100	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:45	147654	0.73	1.4368	1.063	1.063	0.0690	0.0690	106	
PCB-78	33:18	115640	0.74	1.1618	1.030	1.030	0.0854	0.0854	103	M
PCB-81	33:43	102785	0.69	1.0802	1.015	1.015	0.0934	0.0934	101	M
PCB-77	34:18	110963	0.78	1.0836	1.029	1.029	0.0901	0.0901	103	
S Total Pentachlorobiphenyls					45.9	44.9	0.0186	0.0186		RQ
D PCB-104L	25:44	6240748	1.61	1.2161	101.1	101.1	0.0146	0.0146	101	
* PCB-101L	31:39	5076656	1.61		100.0	100.0				
D PCB-123L	36:17	9073751	1.56	0.9731	94.8	94.8	1.318	1.318	94.78	
D PCB-118L	36:36	9353232	1.58	1.0102	94.1	94.1	1.269	1.269	94.12	
D PCB-114L	37:07	9705413	1.58	0.9949	99.2	99.2	1.289	1.289	99.17	
D PCB-105L	37:47	9101468	1.58	0.9514	97.2	97.2	1.348	1.348	97.24	
* PCB-127L	39:15	9837203	1.58		100.0	100.0				
D PCB-126L	40:51	8756063	1.59	0.9439	94.3	94.3	1.359	1.359	94.30	
PCB-104	25:46	61528	1.33	1.0087	0.9774	0.9774	0.008027	0.008027	97.74	M
PCB-96	26:08	63380	1.53	1.0940	0.9283	0.9283	0.007401	0.007401	92.83	
PCB-103	28:04	54610	1.48	0.8741	1.001	1.001	0.009263	0.009263	100	
PCB-94	28:18	50670	1.70	0.7640	1.063	1.063	0.0106	0.0106	106	
PCB-95	28:43	43760	1.55	0.8033	0.9606	0.8729	0.0101	0.0101	96.06	RQ
PCB-93	28:58	104065	1.45	0.8429	1.978	1.978	0.009606	0.009606	98.92	
PCB-100 (C93)	28:58	104065	1.45	0.8429	1.978	1.978	0.009606	0.009606	98.92	
PCB-98	29:09	91810	1.55	0.8262	1.974	1.781	0.009800	0.009800	98.72	RQM
PCB-102 (C98)	29:09	91810	1.55	0.8262	1.974	1.781	0.009800	0.009800	98.72	RQM
PCB-88	29:35	93115	1.60	0.8013	1.862	1.862	0.0101	0.0101	93.10	
PCB-91 (C88)	29:35	93115	1.60	0.8013	1.862	1.862	0.0101	0.0101	93.10	
PCB-84	29:49	49178	1.72	0.7299	1.080	1.080	0.0111	0.0111	108	
PCB-89	30:18	42477	1.55	0.7798	0.9571	0.8728	0.0104	0.0104	95.71	RQM
PCB-121	30:42	82240	1.51	1.2964	1.016	1.016	0.006246	0.006246	102	Ma
PCB-92	31:05	56541	1.55	0.8546	1.060	1.060	0.009475	0.009475	106	M
PCB-90	31:40	158329	1.55	0.9550	2.934	2.657	0.008478	0.008478	97.80	RQ
PCB-101 (C90)	31:40	158329	1.55	0.9550	2.934	2.657	0.008478	0.008478	97.80	RQ
PCB-113 (C90)	31:40	158329	1.55	0.9550	2.934	2.657	0.008478	0.008478	97.80	RQ
PCB-83	32:13	91289	1.55	0.8385	1.936	1.745	0.009656	0.009656	96.79	RQM
PCB-99 (C83)	32:13	91289	1.55	0.8385	1.936	1.745	0.009656	0.009656	96.79	RQM
PCB-112	32:21	85722	1.55	1.4111	1.055	0.9734	0.005738	0.005738	105	RQ
PCB-86	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-87 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-97 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-109 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-119 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-125 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-85	33:27	192911	1.63	1.0408	2.970	2.970	0.007779	0.007779	99.00	
PCB-116 (C85)	33:27	192911	1.63	1.0408	2.970	2.970	0.007779	0.007779	99.00	
PCB-117 (C85)	33:27	192911	1.63	1.0408	2.970	2.970	0.007779	0.007779	99.00	
PCB-110	33:39	153152	1.73	1.1919	2.059	2.059	0.006793	0.006793	103	M
PCB-115 (C110)	33:39	153152	1.73	1.1919	2.059	2.059	0.006793	0.006793	103	M
PCB-82	33:57	52864	1.63	0.8303	1.020	1.020	0.009751	0.009751	102	
PCB-111	34:21	83431	1.58	1.2125	1.103	1.103	0.006678	0.006678	110	
PCB-120	34:48	91670	1.54	1.4762	0.995	0.995	0.005485	0.005485	99.50	
PCB-108	35:56	208570	1.63	1.1405	1.988	1.988	0.0385	0.0385	99.41	M
PCB-124 (C108)	35:56	208570	1.63	1.1405	1.988	1.988	0.0385	0.0385	99.41	M
PCB-107	36:11	93301	1.55	1.2121	0.9198	0.8369	0.0363	0.0363	91.98	RQM
PCB-123	36:17	103937	1.41	1.0722	1.068	1.068	0.0411	0.0411	107	
PCB-106	36:25	96794	1.78	1.0839	0.9709	0.9709	0.0406	0.0406	97.09	
PCB-118	36:37	118026	1.56	1.2055	1.047	1.047	0.0364	0.0364	105	
PCB-122	36:58	94688	1.40	0.9567	1.076	1.076	0.0459	0.0459	108	
PCB-114	37:09	107408	1.50	1.0842	1.021	1.021	0.0375	0.0375	102	
PCB-105	37:47	107441	1.55	1.1879	0.994	0.994	0.0368	0.0368	99.37	M
PCB-127	39:16	108872	1.40	1.1394	1.039	1.039	0.0386	0.0386	104	
PCB-126	40:53	95794	1.52	1.0976	0.997	0.997	0.0438	0.0438	99.67	
S Total Hexachlorobiphenyls					41.7	40.8	0.0349	0.0349		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-155L	31:25	5566942	1.28	1.0851	101.1	101.1	0.0241	0.0241	101	
* PCB-138L	39:43	6529803	1.28		100.0	100.0				
\$ PCB-159L	41:57	4316259	1.29	0.5118	101.1	101.1	1.003	1.003	101	
D PCB-167L	42:43	8343026	1.29	1.2572	101.6	101.6	0.5188	0.5188	102	
D PCB-156L	43:53	16075823	1.29	1.2106	203.4	203.4	0.5388	0.5388	102	
D PCB-157L (C156L)	43:53	16075823	1.29	1.2106	203.4	203.4	0.5388	0.5388	102	
D PCB-169L	47:06	8243482	1.29	1.2439	101.5	101.5	0.5244	0.5244	101	
PCB-155	31:26	53749	1.13	0.9444	1.022	1.022	0.004679	0.004679	102	
PCB-152	31:37	49815	1.24	0.9895	1.006	0.9043	0.004466	0.004466	101	RQ
PCB-150	31:48	56112	1.22	1.0132	0.995	0.995	0.004361	0.004361	99.48	
PCB-136	32:10	55716	1.33	1.0116	0.9894	0.9894	0.004369	0.004369	98.94	
PCB-145	32:27	51222	1.41	0.9685	0.9501	0.9501	0.004563	0.004563	95.01	
PCB-148	33:58	40368	1.18	0.7603	0.9538	0.9538	0.005813	0.005813	95.38	
PCB-135	34:37	78265	1.20	0.7256	1.938	1.938	0.006091	0.006091	96.88	M
PCB-151 (C135)	34:37	78265	1.20	0.7256	1.938	1.938	0.006091	0.006091	96.88	M
PCB-154	34:48	42143	1.24	0.8129	1.034	0.9313	0.005436	0.005436	103	RQ
PCB-144	35:07	38749	1.24	0.7852	0.998	0.8864	0.005628	0.005628	99.83	RQ
PCB-147	35:29	137928	1.19	0.8950	1.887	1.887	0.0492	0.0492	94.37	
PCB-149 (C147)	35:29	137928	1.19	0.8950	1.887	1.887	0.0492	0.0492	94.37	
PCB-134	35:41	130881	1.36	0.7967	2.012	2.012	0.0553	0.0553	101	M
PCB-143 (C134)	35:41	130881	1.36	0.7967	2.012	2.012	0.0553	0.0553	101	M
PCB-139	36:05	141796	1.32	0.8769	1.980	1.980	0.0502	0.0502	99.02	
PCB-140 (C139)	36:05	141796	1.32	0.8769	1.980	1.980	0.0502	0.0502	99.02	
PCB-131	36:17	60287	1.20	0.7503	0.9840	0.9840	0.0587	0.0587	98.40	M
PCB-142	36:25	58658	1.27	0.7507	0.9569	0.9569	0.0587	0.0587	95.69	M
PCB-132	36:43	59523	1.17	0.7489	0.9733	0.9733	0.0588	0.0588	97.33	
PCB-133	37:14	65331	1.24	0.8096	1.082	0.9883	0.0544	0.0544	108	RQ
PCB-165	37:39	89004	1.28	1.0247	1.064	1.064	0.0430	0.0430	106	
PCB-146	37:54	73574	1.24	0.9637	1.018	0.9350	0.0457	0.0457	102	RQ
PCB-161	38:02	95121	1.43	1.1288	1.032	1.032	0.0390	0.0390	103	
PCB-153	38:31	166883	1.19	1.0938	1.869	1.869	0.0403	0.0403	93.43	
PCB-168 (C153)	38:31	166883	1.19	1.0938	1.869	1.869	0.0403	0.0403	93.43	
PCB-141	38:42	74724	1.27	0.8755	1.045	1.045	0.0503	0.0503	105	
PCB-130	39:07	59703	1.20	0.7051	1.037	1.037	0.0625	0.0625	104	
PCB-137	39:20	55300	1.24	0.7767	0.9717	0.8720	0.0567	0.0567	97.17	RQ
PCB-164	39:28	73348	1.24	1.0382	0.9897	0.8652	0.0424	0.0424	98.97	RQ
PCB-129	39:45	303072	1.17	0.9464	3.922	3.922	0.0466	0.0466	98.04	M
PCB-138 (C129)	39:45	303072	1.17	0.9464	3.922	3.922	0.0466	0.0466	98.04	M
PCB-160 (C129)	39:45	303072	1.17	0.9464	3.922	3.922	0.0466	0.0466	98.04	M
PCB-163 (C129)	39:45	303072	1.17	0.9464	3.922	3.922	0.0466	0.0466	98.04	M
PCB-158	40:08	109591	1.25	1.3110	1.024	1.024	0.0336	0.0336	102	
PCB-128	40:59	139449	1.24	0.9829	1.889	1.737	0.0448	0.0448	94.43	RQ
PCB-166 (C128)	40:59	139449	1.24	0.9829	1.889	1.737	0.0448	0.0448	94.43	RQ
PCB-159	41:58	114847	1.24	1.3856	1.015	1.015	0.0318	0.0318	102	M
PCB-162	42:16	106735	1.27	1.2571	1.040	1.040	0.0350	0.0350	104	M
PCB-167	42:45	90866	1.16	1.1159	0.9760	0.9760	0.0327	0.0327	97.60	
PCB-156	43:55	183365	1.35	1.1104	2.054	2.054	0.0486	0.0486	103	
PCB-157 (C156)	43:55	183365	1.35	1.1104	2.054	2.054	0.0486	0.0486	103	
PCB-169	47:07	91425	1.25	1.1628	0.9538	0.9538	0.0326	0.0326	95.38	M
S Total Heptachlorobiphenyls					24.4	24.1	0.001933	0.001933		RQ
D PCB-188L	37:08	6585200	1.07	1.3133	98.7	98.7	0.0435	0.0435	98.67	
* PCB-180L	45:16	5081608	1.08		100.0	100.0				
D PCB-170L	46:31	4277780	1.09	0.8362	100.7	100.7	0.0683	0.0683	101	
D PCB-189L	49:38	10353644	1.06	1.4414	100.4	100.4	0.5572	0.5572	100	
PCB-188	37:10	77076	1.06	1.1350	1.031	1.031	0.000350	0.000350	103	
PCB-179	37:29	77102	1.15	1.4276	0.994	0.994	0.000341	0.000341	99.44	
PCB-184	38:01	74149	1.14	1.3672	0.999	0.999	0.000356	0.000356	99.85	
PCB-176	38:23	62562	1.03	1.2331	0.9341	0.9341	0.000395	0.000395	93.41	
PCB-186	38:50	75669	0.91	1.4737	0.9453	0.9453	0.000331	0.000331	94.53	
PCB-178	40:12	49156	0.92	0.8946	1.012	1.012	0.000545	0.000545	101	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-175	40:50	45492	1.05	0.9524	0.9703	0.8794	0.000512	0.000512	97.03	RQ
PCB-187	41:06	60936	1.05	1.1018	1.018	1.018	0.000442	0.000442	102	
PCB-182	41:19	48192	0.91	0.9247	0.9595	0.9595	0.000527	0.000527	95.95	
PCB-183	41:43	115938	1.04	0.9825	2.173	2.173	0.000496	0.000496	109	M
PCB-185 (C183)	41:43	115938	1.04	0.9825	2.173	2.173	0.000496	0.000496	109	M
PCB-174	41:57	42648	1.05	0.9642	0.8858	0.8144	0.000505	0.000505	88.58	RQ
PCB-177	42:23	53407	1.09	0.9773	1.006	1.006	0.000499	0.000499	101	M
PCB-181	42:47	55606	1.08	0.9505	1.077	1.077	0.000513	0.000513	108	
PCB-171	43:01	103035	1.05	0.9336	2.203	2.032	0.000522	0.000522	110	RQ
PCB-173 (C171)	43:01	103035	1.05	0.9336	2.203	2.032	0.000522	0.000522	110	RQ
PCB-172	44:38	47193	1.21	0.8519	1.020	1.020	0.000572	0.000572	102	
PCB-192	44:54	75123	0.92	1.3459	1.028	1.028	0.000362	0.000362	103	
PCB-180	45:16	130449	1.02	1.1676	2.057	2.057	0.000417	0.000417	103	
PCB-193 (C180)	45:16	130449	1.02	1.1676	2.057	2.057	0.000417	0.000417	103	
PCB-191	45:39	72972	1.13	1.2891	1.042	1.042	0.000378	0.000378	104	
PCB-170	46:34	51767	1.18	1.1865	1.020	1.020	0.000530	0.000530	102	M
PCB-190	47:04	74583	1.09	1.3322	1.031	1.031	0.000366	0.000366	103	
PCB-189	49:39	97896	0.98	0.9633	0.9815	0.9815	0.0316	0.0316	98.15	
S Total Octachlorobiphenyls					12.1	11.7	0.0159	0.0159		RQ
D PCB-202L	42:30	5103331	0.90	0.9818	102.3	102.3	0.0151	0.0151	102	
* PCB-194L	51:44	7154788	0.90		100.0	100.0				
D PCB-205L	52:13	8466946	0.90	1.1786	100.4	100.4	0.0728	0.0728	100	
PCB-202	42:31	51069	0.90	1.0359	0.9661	0.9661	0.0114	0.0114	96.61	
PCB-201	43:26	47236	0.89	0.9754	1.018	0.9490	0.0122	0.0122	102	RQ
PCB-204	44:07	49880	0.89	1.0485	1.000	0.9322	0.0113	0.0113	100	RQ
PCB-197	44:20	55016	0.89	1.1458	1.014	0.9409	0.0103	0.0103	101	RQ
PCB-200	44:27	43036	0.89	1.0072	1.032	0.8373	0.0118	0.0118	103	RQ
PCB-198	47:12	88133	0.90	0.8698	1.986	1.986	0.0136	0.0136	99.28	
PCB-199 (C198)	47:12	88133	0.90	0.8698	1.986	1.986	0.0136	0.0136	99.28	
PCB-196	47:54	41271	0.98	0.7806	1.036	1.036	0.0152	0.0152	104	
PCB-203	48:06	45126	0.88	0.9292	0.9516	0.9516	0.0128	0.0128	95.16	
PCB-195	49:24	74468	0.94	0.8263	1.064	1.064	0.0294	0.0294	106	M
PCB-194	51:47	84593	0.85	0.9735	1.026	1.026	0.0249	0.0249	103	
PCB-205	52:13	94183	1.01	1.0878	1.023	1.023	0.0223	0.0223	102	
S Total Nonachlorobiphenyls					3.061	3.061	0.1200	0.1200		
D PCB-208L	49:10	6757986	0.82	0.9576	98.6	98.6	0.2730	0.2730	98.64	
D PCB-206L	53:58	4908757	0.82	0.6947	98.8	98.8	0.3764	0.3764	98.76	
PCB-208	49:12	79659	0.66	1.1374	1.036	1.036	0.1134	0.1134	104	M
PCB-207	50:06	79832	0.84	1.3756	0.995	0.995	0.1099	0.1099	99.49	M
PCB-206	53:59	67457	0.72	1.3346	1.030	1.030	0.1367	0.1367	103	M
D PCB-209L	55:36	4729024	0.71	0.6669	99.1	99.1	0.0486	0.0486	99.11	
DCB Decachlorobiphenyl	55:37	51840	0.71	1.1004	0.996	0.996	0.005241	0.005241	99.62	
S Polychlorinated biphenyls, Total					205.1	0.996	0.0361	0.0361		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L11668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-May-2024 16:53:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-002
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:26:42 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 19:07:23

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:38	11:36	2	0.726	10185623	4114359	3055	7637	1347		
202.0766	11:38	11:36	2	0.726	3226307	1292090	1581	3952	817	3.16(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:46	2	0.861	10059938	3392951	3055	7637	1111		
202.0766	13:47	13:46	2	0.861	3106539	1057643	1581	3952	669	3.24(2.66-3.60)	
PCB-1											
188.0393	11:39	11:37	2	1.001	127299	53175	138	345	385		
190.0363	11:39	11:37	2	1.001	40354	16594	127	317	131	3.15(2.66-3.60)	
PCB-2											
188.0393	13:38	13:36	2	0.989	113903	37719	138	345	273		
190.0363	13:38	13:36	2	0.989	38234	12805	127	317	101	2.98(2.66-3.60)	
PCB-3											
188.0393	13:48	13:47	2	1.001	117382	39238	138	345	284		
190.0363	13:48	13:47	2	1.001	38069	13280	127	317	105	3.08(2.66-3.60)	
PCB-4L											
234.0406	14:03	14:02	2	0.878	3363111	1081560	442	1105	2447		
236.0376	14:03	14:02	2	0.878	2079655	668618	139	347	4810	1.62(1.33-1.79)	
PCB-9L											
234.0406	16:01	15:59	2		5166195	1508927	442	1105	3414		
236.0376	16:01	15:59	2		3170104	930993	139	347	6698	1.63(1.33-1.79)	
PCB-15L											
234.0406	19:56	19:54	1	1.245	5465286	1281682	442	1105	2900		
236.0376	19:56	19:54	1	1.245	3354075	798086	139	347	5742	1.63(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-4											
222.0003	14:04	14:02	2	1.001	44768	13793	32	80	431		
223.9974	14:04	14:02	2	1.001	26513	9304	20	50	465	1.69(1.33-1.79)	
PCB-10											
222.0003	14:14	14:13	2	1.013	55621	16009	32	80	500		
223.9974	14:13	14:13	1	1.012	35318	11482	20	50	574	1.57(1.33-1.79)	
PCB-9											
222.0003	16:01	16:00	2	1.140	61323	16770	32	80	524		
223.9974	16:01	16:00	2	1.140	40446	12242	20	50	612	1.52(1.33-1.79)	
PCB-7											
222.0003	16:12	16:10	2	1.153	64352	16897	32	80	528		RQ
	Empc Correction				55283	16322	32	80	510		
223.9974	16:12	16:10	2	1.153	35438	10463	20	50	523	1.82(1.33-1.79)	
PCB-6											
222.0003	16:26	16:25	1	1.169	70638	19049	32	80	595		RQM
	Empc Correction				59487	15086	32	80	471		M
223.9974	16:26	16:25	1	1.169	38133	9671	20	50	484	1.85(1.33-1.79)	M
PCB-5											
222.0003	16:45	16:43	2	1.192	59254	17650	32	80	552		
223.9974	16:44	16:43	1	1.191	33819	9539	20	50	477	1.75(1.33-1.79)	
PCB-8											
222.0003	16:52	16:50	2	1.200	65520	17964	32	80	561		
223.9974	16:52	16:50	2	1.200	43000	10560	20	50	528	1.52(1.33-1.79)	
PCB-14											
222.0003	18:30	18:28	2	0.928	60089	14343	32	80	448		
223.9974	18:29	18:28	2	0.927	35617	8039	20	50	402	1.69(1.33-1.79)	
PCB-11											
222.0003	19:20	19:18	1	0.970	54062	12799	32	80	400		RQ
	Empc Correction				46121	10849	32	80	339		
223.9974	19:20	19:18	2	0.970	29565	6955	20	50	348	1.83(1.33-1.79)	
PCB-12											
222.0003	19:38	19:36	1	0.985	111069	18880	32	80	590		
223.9974	19:38	19:36	1	0.985	70574	11549	20	50	577	1.57(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:38	19:36	1	0.985	111069	18880	32	80	590		
223.9974	19:38	19:36	1	0.985	70574	11549	20	50	577	1.57(1.33-1.79)	
PCB-15											
222.0003	19:57	19:55	1	1.001	68996	15389	32	80	481		
223.9974	19:57	19:55	1	1.001	44908	10538	20	50	527	1.54(1.33-1.79)	
PCB-19L											
268.0016	17:09	17:08	2	0.841	1745587	480479	407	1017	1181		
269.9986	17:09	17:08	2	0.841	1678449	464429	1068	2670	435	1.04(0.88-1.20)	
PCB-32L											
268.0016	20:24	20:23	1		2778431	679560	407	1017	1670		
269.9986	20:24	20:23	1		2517260	621065	1068	2670	582	1.10(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:40	22:38	2		7699706	1781645	922	2305	1932		
269.9986	22:40	22:38	2		7400655	1706805	609	1522	2803	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:57	26:55	2	1.189	6839473	1362148	922	2305	1477		
269.9986	26:57	26:55	2	1.189	6416325	1278780	609	1522	2100	1.07(0.88-1.20)	
PCB-19											
255.9613	17:10	17:09	2	1.001	19803	5709	51	127	112		
257.9584	17:10	17:09	2	1.001	18128	5203	1	2	5203	1.09(0.88-1.20)	
PCB-18											
255.9613	19:00	18:59	1	1.107	61748	11831	51	127	232		
257.9584	19:01	18:59	2	1.109	57877	10645	1	2	10645	1.07(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:00	18:59	1	1.107	61748	11831	51	127	232		
257.9584	19:01	18:59	2	1.109	57877	10645	1	2	10645	1.07(0.88-1.20)	
PCB-17											
255.9613	19:27	19:26	1	1.133	21795	6099	51	127	120		
257.9584	19:27	19:26	1	1.133	21257	5516	1	2	5516	1.03(0.88-1.20)	
PCB-27											
255.9613	19:40	19:39	1	1.146	32473	8025	51	127	157		
257.9584	19:41	19:39	2	1.147	29300	7998	1	2	7998	1.11(0.88-1.20)	
PCB-24											
255.9613	19:48	19:46	2	1.154	28086	8423	51	127	165		
257.9584	19:48	19:46	2	1.154	27453	6886	1	2	6886	1.02(0.88-1.20)	
PCB-16											
255.9613	19:54	19:53	1	1.160	20482	4992	51	127	98		
	Empc Correction				16556	3825	51	127	75		
257.9584	19:54	19:53	1	1.160	15920	3678	1	2	3678	1.29(0.88-1.20)	
PCB-32											
255.9613	20:25	20:23	1	1.190	30706	7724	51	127	151		
257.9584	20:25	20:23	1	1.190	29521	7333	1	2	7333	1.04(0.88-1.20)	
PCB-34											
255.9613	21:41	21:39	2	1.264	73408	18127	359	897	50		
257.9584	21:41	21:39	2	1.264	72414	17630	202	505	87	1.01(0.88-1.20)	
PCB-23											
255.9613	21:50	21:48	2	1.273	78250	19661	359	897	55		
257.9584	21:50	21:48	2	1.273	69902	16890	202	505	84	1.12(0.88-1.20)	
PCB-26											
255.9613	22:09	22:08	2	1.291	152528	29953	359	897	83		
257.9584	22:09	22:08	2	1.291	144146	29473	202	505	146	1.06(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:09	22:08	2	1.291	152528	29953	359	897	83		
257.9584	22:09	22:08	2	1.291	144146	29473	202	505	146	1.06(0.88-1.20)	
PCB-25											
255.9613	22:22	22:21	2	0.830	81603	19501	359	897	54		
257.9584	22:22	22:21	2	0.830	79266	17000	202	505	84	1.03(0.88-1.20)	

RQ

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31											
255.9613	22:41	22:40	2	0.842	85080	19454	359	897	54		
257.9584	22:41	22:40	1	0.841	75761	16478	202	505	82	1.12(0.88-1.20)	
PCB-20											
255.9613	23:00	22:58	2	0.853	145020	28183	359	897	79		
257.9584	23:00	22:58	2	0.853	153328	28031	202	505	139	0.95(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:00	22:58	2	0.853	145020	28183	359	897	79		
257.9584	23:00	22:58	2	0.853	153328	28031	202	505	139	0.95(0.88-1.20)	
PCB-21											
255.9613	23:09	23:07	2	0.859	142636	18040	359	897	50		M
257.9584	23:14	23:07	6	0.862	139356	15780	202	505	78	1.02(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:09	23:07	2	0.859	142636	18040	359	897	50		M
257.9584	23:14	23:07	6	0.862	139356	15780	202	505	78	1.02(0.88-1.20)	M
PCB-22											
255.9613	23:37	23:35	2	0.876	83341	19521	359	897	54		
257.9584	23:37	23:35	2	0.876	81035	21048	202	505	104	1.03(0.88-1.20)	
PCB-36											
255.9613	25:11	25:09	2	0.934	76109	13923	359	897	39		
257.9584	25:10	25:09	2	0.934	74581	13287	202	505	66	1.02(0.88-1.20)	
PCB-39											
255.9613	25:31	25:30	1	0.947	79422	15068	359	897	42		
257.9584	25:33	25:30	2	0.948	71407	14943	202	505	74	1.11(0.88-1.20)	
PCB-38											
255.9613	26:06	26:05	2	0.969	73953	16064	359	897	45		M
257.9584	26:06	26:05	2	0.969	68696	14199	202	505	70	1.08(0.88-1.20)	M
PCB-35											
255.9613	26:35	26:32	2	0.986	74831	15734	359	897	44		
257.9584	26:35	26:32	3	0.987	67911	13442	202	505	67	1.10(0.88-1.20)	
PCB-37											
255.9613	26:59	26:57	2	1.001	77812	14227	359	897	40		
257.9584	26:58	26:57	1	1.000	70673	12845	202	505	64	1.10(0.88-1.20)	
PCB-54L											
301.9626	20:14	20:12	2	0.816	1343864	330880	86	215	3847		M
303.9597	20:14	20:12	2	0.816	1667087	407334	64	160	6365	0.81(0.65-0.89)	M
PCB-52L											
301.9626	24:47	24:46	1		3433693	753064	382	955	1971		
303.9597	24:47	24:46	1		4280870	937822	526	1315	1783	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:42	33:41	2	1.360	4162808	791085	382	955	2071		
303.9597	33:42	33:41	2	1.360	5215218	1012994	526	1315	1926	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:16	34:14	2	1.383	4447334	839826	382	955	2198		
303.9597	34:16	34:14	2	1.383	5505263	1024968	526	1315	1949	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54											M
289.9224	20:15	20:13	2	1.000	16803	3748	5	12	750		M
291.9194	20:15	20:13	2	1.000	23091	6390	13	32	492	0.73(0.65-0.89)	
PCB-50											
289.9224	22:26	22:24	2	1.109	69919	12879	215	537	60		
291.9194	22:25	22:24	2	1.108	90576	18796	513	1282	37	0.77(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:26	22:24	2	1.109	69919	12879	215	537	60		
291.9194	22:25	22:24	2	1.108	90576	18796	513	1282	37	0.77(0.65-0.89)	
PCB-45											M
289.9224	23:10	23:08	2	1.145	72408	10368	215	537	48		
291.9194	23:09	23:08	1	1.144	85307	9879	513	1282	19	0.85(0.65-0.89)	M
PCB-51 (C45)											M
289.9224	23:10	23:08	2	1.145	72408	10368	215	537	48		
291.9194	23:09	23:08	1	1.144	85307	9879	513	1282	19	0.85(0.65-0.89)	M
PCB-46											
289.9224	23:24	23:22	2	1.156	30445	7099	215	537	33		
291.9194	23:23	23:22	1	1.156	35380	6945	513	1282	14	0.86(0.65-0.89)	
PCB-52											
289.9224	24:48	24:47	1	1.226	37002	9019	215	537	42		
291.9194	24:49	24:47	2	1.226	50731	13189	513	1282	26	0.73(0.65-0.89)	
PCB-43											M
289.9224	24:58	24:56	2	1.234	85780	10929	215	537	51		M
291.9194	24:56	24:56	0	1.233	114448	14514	513	1282	28	0.75(0.65-0.89)	M
PCB-73 (C43)											M
289.9224	24:58	24:56	2	1.234	85780	10929	215	537	51		M
291.9194	24:56	24:56	0	1.233	114448	14514	513	1282	28	0.75(0.65-0.89)	M
PCB-49											M
289.9224	25:15	25:14	1	1.248	88756	13436	215	537	62		M
291.9194	25:15	25:14	1	1.248	113139	17014	513	1282	33	0.78(0.65-0.89)	
PCB-69 (C49)											M
289.9224	25:15	25:14	1	1.248	88756	13436	215	537	62		M
291.9194	25:15	25:14	1	1.248	113139	17014	513	1282	33	0.78(0.65-0.89)	
PCB-48											
289.9224	25:36	25:33	2	1.265	36336	8437	215	537	39		
291.9194	25:35	25:33	2	1.264	47614	11115	513	1282	22	0.76(0.65-0.89)	
PCB-44											
289.9224	25:49	25:48	2	1.276	122897	21858	215	537	102		
291.9194	25:49	25:48	2	1.276	154960	27885	513	1282	54	0.79(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:49	25:48	2	1.276	122897	21858	215	537	102		
291.9194	25:49	25:48	2	1.276	154960	27885	513	1282	54	0.79(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:49	25:48	2	1.276	122897	21858	215	537	102		
291.9194	25:49	25:48	2	1.276	154960	27885	513	1282	54	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-59											
289.9224	26:07	26:06	1	1.291	140800	20222	215	537	94		
291.9194	26:07	26:06	1	1.291	190463	25683	513	1282	50	0.74(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:07	26:06	1	1.291	140800	20222	215	537	94		
291.9194	26:07	26:06	1	1.291	190463	25683	513	1282	50	0.74(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:07	26:06	1	1.291	140800	20222	215	537	94		
291.9194	26:07	26:06	1	1.291	190463	25683	513	1282	50	0.74(0.65-0.89)	
PCB-42											
289.9224	26:19	26:18	1	1.301	36624	8441	215	537	39		
291.9194	26:20	26:18	2	1.302	42786	9700	513	1282	19	0.86(0.65-0.89)	
PCB-40											
289.9224	26:50	26:48	2	1.326	116094	16878	215	537	79		M
291.9194	26:50	26:48	2	1.326	136490	22026	513	1282	43	0.85(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:50	26:48	2	1.326	116094	16878	215	537	79		M
291.9194	26:50	26:48	2	1.326	136490	22026	513	1282	43	0.85(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:50	26:48	2	1.326	116094	16878	215	537	79		M
291.9194	26:50	26:48	2	1.326	136490	22026	513	1282	43	0.85(0.65-0.89)	M
PCB-64											
289.9224	27:04	27:01	3	1.338	51698	10058	215	537	47		M
291.9194	27:03	27:01	2	1.337	69628	14722	513	1282	29	0.74(0.65-0.89)	M
PCB-72											
289.9224	27:53	27:51	2	0.827	46842	10272	215	537	48		
291.9194	27:53	27:51	2	0.827	55958	12344	513	1282	24	0.84(0.65-0.89)	
PCB-68											
289.9224	28:11	28:09	2	0.836	53520	9811	215	537	46		
291.9194	28:11	28:09	2	0.836	67119	11442	513	1282	22	0.80(0.65-0.89)	
PCB-57											
289.9224	28:35	28:34	2	0.848	49266	11410	215	537	53		
291.9194	28:35	28:34	2	0.848	58572	12049	513	1282	23	0.84(0.65-0.89)	
PCB-58											
289.9224	28:50	28:48	2	0.855	54694	11437	215	537	53		
291.9194	28:50	28:48	2	0.855	63008	13249	513	1282	26	0.87(0.65-0.89)	
PCB-67											
289.9224	28:59	28:58	1	0.860	63632	10795	215	537	50		
291.9194	28:59	28:58	1	0.860	72371	15591	513	1282	30	0.88(0.65-0.89)	
PCB-63											
289.9224	29:15	29:14	2	0.868	50749	9795	215	537	46		
291.9194	29:15	29:14	2	0.868	62923	11830	513	1282	23	0.81(0.65-0.89)	
PCB-61											
289.9224	29:36	29:34	2	0.878	210815	24606	215	537	114		M
291.9194	29:36	29:34	2	0.878	261662	29135	513	1282	57	0.81(0.65-0.89)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-70 (C61)											M
289.9224	29:36	29:34	2	0.878	210815	24606	215	537	114		
291.9194	29:36	29:34	2	0.878	261662	29135	513	1282	57	0.81(0.65-0.89)	M
PCB-74 (C61)											M
289.9224	29:36	29:34	2	0.878	210815	24606	215	537	114		
291.9194	29:36	29:34	2	0.878	261662	29135	513	1282	57	0.81(0.65-0.89)	M
PCB-76 (C61)											M
289.9224	29:36	29:34	2	0.878	210815	24606	215	537	114		
291.9194	29:36	29:34	2	0.878	261662	29135	513	1282	57	0.81(0.65-0.89)	M
PCB-66											RQ
289.9224	29:55	29:53	2	0.888	57060	12382	215	537	58		
	Empc Correction				47743	9165	215	537	43		
291.9194	29:55	29:53	2	0.888	62005	11903	513	1282	23	0.92(0.65-0.89)	
PCB-55											
289.9224	30:05	30:03	2	0.893	53977	11655	215	537	54		
291.9194	30:05	30:03	2	0.893	65535	14489	513	1282	28	0.82(0.65-0.89)	
PCB-56											
289.9224	30:35	30:33	2	0.907	49377	11178	215	537	52		
291.9194	30:36	30:33	2	0.908	63226	13322	513	1282	26	0.78(0.65-0.89)	
PCB-60											
289.9224	30:49	30:46	2	0.914	47903	9501	215	537	44		
291.9194	30:48	30:46	2	0.914	72466	13792	513	1282	27	0.66(0.65-0.89)	
PCB-80											
289.9224	31:13	31:11	2	0.926	58022	11679	215	537	54		
291.9194	31:13	31:11	2	0.926	70070	13568	513	1282	26	0.83(0.65-0.89)	
PCB-79											
289.9224	32:45	32:42	2	0.972	62223	9934	215	537	46		
291.9194	32:44	32:42	2	0.971	85431	14322	513	1282	28	0.73(0.65-0.89)	
PCB-78											M
289.9224	33:18	33:15	2	0.988	49349	8800	215	537	41		M
291.9194	33:18	33:15	2	0.988	66291	11725	513	1282	23	0.74(0.65-0.89)	M
PCB-81											M
289.9224	33:43	33:42	1	1.000	41953	8123	215	537	38		M
291.9194	33:43	33:42	1	1.000	60832	12136	513	1282	24	0.69(0.65-0.89)	
PCB-77											
289.9224	34:18	34:16	2	1.001	48709	10542	215	537	49		
291.9194	34:18	34:16	2	1.001	62254	11494	513	1282	22	0.78(0.65-0.89)	
PCB-104L											
337.9207	25:44	25:42	2	0.813	3852824	852423	51	127	16714		
339.9178	25:44	25:42	2	0.813	2387924	530853	21	52	25279	1.61(1.32-1.78)	
PCB-101L											
337.9207	31:39	31:37	2		3129961	628656	51	127	12327		
339.9178	31:39	31:37	2		1946695	384780	21	52	18323	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:17	36:15	2	1.146	5533213	1071392	6223	15557	172		
339.9178	36:17	36:15	2	1.146	3540538	685925	3501	8752	196	1.56(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118L											
337.9207	36:36	36:34	1	1.156	5725256	1083224	6223	15557	174		
339.9178	36:36	36:34	2	1.157	3627976	684723	3501	8752	196	1.58(1.32-1.78)	
PCB-114L											
337.9207	37:07	37:06	1	1.173	5950451	1164285	6223	15557	187		
339.9178	37:07	37:06	1	1.173	3754962	740475	3501	8752	212	1.58(1.32-1.78)	
PCB-105L											
337.9207	37:47	37:45	2	1.194	5569980	1083992	6223	15557	174		
339.9178	37:47	37:45	2	1.194	3531488	687514	3501	8752	196	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:15	39:14	1		6022915	1165835	6223	15557	187		
339.9178	39:15	39:14	1		3814288	729954	3501	8752	208	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:51	40:50	1	1.291	5379062	991895	6223	15557	159		
339.9178	40:51	40:50	1	1.291	3377001	621408	3501	8752	177	1.59(1.32-1.78)	
PCB-104											
325.8804	25:46	25:44	2	1.001	35169	8946	41	102	218		M
327.8775	25:46	25:44	2	1.001	26359	6216	4	10	1554	1.33(1.32-1.78)	M
PCB-96											
325.8804	26:08	26:06	2	1.015	38377	8336	41	102	203		
327.8775	26:07	26:06	1	1.015	25003	6214	4	10	1554	1.53(1.32-1.78)	
PCB-103											
325.8804	28:04	28:02	2	1.091	32564	6777	41	102	165		
327.8775	28:04	28:02	2	1.091	22046	4620	4	10	1155	1.48(1.32-1.78)	
PCB-94											
325.8804	28:18	28:16	2	1.099	31909	7425	41	102	181		
327.8775	28:17	28:16	1	1.099	18761	4368	4	10	1092	1.70(1.32-1.78)	
PCB-95											
325.8804	28:43	28:42	1	1.116	30994	5520	41	102	135		RQ
	Empc Correction				26599	6644	41	102	162		
327.8775	28:44	28:42	2	1.116	17161	4287	4	10	1072	1.81(1.32-1.78)	
PCB-93											
325.8804	28:58	28:55	2	1.125	61529	13843	41	102	338		
327.8775	28:57	28:55	2	1.125	42536	8966	4	10	2242	1.45(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:58	28:55	2	1.125	61529	13843	41	102	338		
327.8775	28:57	28:55	2	1.125	42536	8966	4	10	2242	1.45(1.32-1.78)	
PCB-98											
325.8804	29:09	29:04	5	1.133	65793	7876	41	102	192		RQM
	Empc Correction				55806	7325	41	102	179		M
327.8775	29:05	29:04	1	1.130	36004	4726	4	10	1182	1.83(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:09	29:04	5	1.133	65793	7876	41	102	192		RQM
	Empc Correction				55806	7325	41	102	179		M
327.8775	29:05	29:04	1	1.130	36004	4726	4	10	1182	1.83(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-88											
325.8804	29:35	29:33	2	1.150	57329	6752	41	102	165	1.60(1.32-1.78)	
327.8775	29:35	29:33	2	1.150	35786	4659	4	10	1165		
PCB-91 (C88)											
325.8804	29:35	29:33	2	1.150	57329	6752	41	102	165	1.60(1.32-1.78)	
327.8775	29:35	29:33	2	1.150	35786	4659	4	10	1165		
PCB-84											
325.8804	29:49	29:47	2	1.159	31120	5809	41	102	142	1.72(1.32-1.78)	
327.8775	29:49	29:47	2	1.159	18058	3646	4	10	912		
PCB-89											
325.8804	30:18	30:16	2	1.178	29923	6017	41	102	147	1.80(1.32-1.78)	RQM
Empc Correction					25819	4512	41	102	110		
327.8775	30:18	30:16	2	1.178	16658	2911	4	10	728		M
PCB-121											
325.8804	30:42	30:41	1	1.193	49412	10452	41	102	255	1.51(1.32-1.78)	Ma
327.8775	30:43	30:41	2	1.194	32828	5809	4	10	1452		M
PCB-92											
325.8804	31:05	31:03	2	0.857	34399	7131	41	102	174	1.55(1.32-1.78)	M
327.8775	31:06	31:03	2	0.857	22142	5081	4	10	1270		
PCB-90											
325.8804	31:40	31:37	3	1.231	112769	16900	41	102	412	1.82(1.32-1.78)	RQ
Empc Correction					96239	13790	41	102	336		
327.8775	31:39	31:37	2	1.230	62090	8897	4	10	2224		
PCB-101 (C90)											
325.8804	31:40	31:37	3	1.231	112769	16900	41	102	412	1.82(1.32-1.78)	RQ
Empc Correction					96239	13790	41	102	336		
327.8775	31:39	31:37	2	1.230	62090	8897	4	10	2224		
PCB-113 (C90)											
325.8804	31:40	31:37	3	1.231	112769	16900	41	102	412	1.82(1.32-1.78)	RQ
Empc Correction					96239	13790	41	102	336		
327.8775	31:39	31:37	2	1.230	62090	8897	4	10	2224		
PCB-83											
325.8804	32:13	32:13	0	1.252	65499	8076	41	102	197	1.83(1.32-1.78)	RQM
Empc Correction					55489	8120	41	102	198		
327.8775	32:14	32:13	1	1.253	35800	5239	4	10	1310		M
PCB-99 (C83)											
325.8804	32:13	32:13	0	1.252	65499	8076	41	102	197	1.83(1.32-1.78)	RQM
Empc Correction					55489	8120	41	102	198		
327.8775	32:14	32:13	1	1.253	35800	5239	4	10	1310		M
PCB-112											
325.8804	32:21	32:20	1	1.257	52106	10914	41	102	266	1.28(1.32-1.78)	RQ
327.8775	32:21	32:20	1	1.257	40788	7251	4	10	1813		
Empc Correction					33616	7041	4	10	1760		
PCB-86											
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571	1.51(1.32-1.78)	M
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-87 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-85											
325.8804	33:27	33:25	2	1.300	119513	15541	41	102	379		
327.8775	33:27	33:25	2	1.300	73398	8906	4	10	2227	1.63(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:27	33:25	2	1.300	119513	15541	41	102	379		
327.8775	33:27	33:25	2	1.300	73398	8906	4	10	2227	1.63(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:27	33:25	2	1.300	119513	15541	41	102	379		
327.8775	33:27	33:25	2	1.300	73398	8906	4	10	2227	1.63(1.32-1.78)	
PCB-110											M
325.8804	33:39	33:37	2	1.308	97064	11409	41	102	278		M
327.8775	33:38	33:37	2	1.307	56088	7877	4	10	1969	1.73(1.32-1.78)	M
PCB-115 (C110)											M
325.8804	33:39	33:37	2	1.308	97064	11409	41	102	278		M
327.8775	33:38	33:37	2	1.307	56088	7877	4	10	1969	1.73(1.32-1.78)	M
PCB-82											
325.8804	33:57	33:55	2	1.319	32782	6408	41	102	156		
327.8775	33:57	33:55	2	1.319	20082	3679	4	10	920	1.63(1.32-1.78)	
PCB-111											
325.8804	34:21	34:19	2	1.335	51140	10636	41	102	259		
327.8775	34:21	34:19	2	1.335	32291	6561	4	10	1640	1.58(1.32-1.78)	
PCB-120											
325.8804	34:48	34:47	2	1.353	55527	10085	41	102	246		
327.8775	34:48	34:47	2	1.353	36143	7513	4	10	1878	1.54(1.32-1.78)	
PCB-108											M
325.8804	35:56	35:55	1	1.397	129156	24528	158	395	155		M
327.8775	35:57	35:55	2	1.397	79414	15113	152	380	99	1.63(1.32-1.78)	M
PCB-124 (C108)											M
325.8804	35:56	35:55	1	1.397	129156	24528	158	395	155		M
327.8775	35:57	35:55	2	1.397	79414	15113	152	380	99	1.63(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-107											RQM
325.8804	36:11	36:09	2	1.406	65956	14147	158	395	90		M
	Empc Correction				56712	10629	158	395	67		
327.8775	36:11	36:09	2	1.406	36589	6858	152	380	45	1.80(1.32-1.78)	
PCB-123											
325.8804	36:17	36:16	1	1.000	60802	12937	158	395	82		
327.8775	36:17	36:16	1	1.000	43135	9086	152	380	60	1.41(1.32-1.78)	
PCB-106											
325.8804	36:25	36:23	1	1.004	61923	12333	158	395	78		
327.8775	36:25	36:23	1	1.004	34871	6580	152	380	43	1.78(1.32-1.78)	
PCB-118											
325.8804	36:37	36:36	1	1.001	71873	12997	158	395	82		
327.8775	36:37	36:36	1	1.001	46153	8339	152	380	55	1.56(1.32-1.78)	
PCB-122											
325.8804	36:58	36:56	2	1.010	55310	11174	158	395	71		
327.8775	36:58	36:56	1	1.010	39378	7224	152	380	48	1.40(1.32-1.78)	
PCB-114											
325.8804	37:09	37:08	1	1.001	64516	11526	158	395	73		
327.8775	37:09	37:08	1	1.001	42892	8751	152	380	58	1.50(1.32-1.78)	
PCB-105											M
325.8804	37:47	37:46	1	1.000	65351	12605	158	395	80		M
327.8775	37:47	37:46	1	1.000	42090	7618	152	380	50	1.55(1.32-1.78)	M
PCB-127											
325.8804	39:16	39:15	1	1.039	63598	11839	158	395	75		
327.8775	39:16	39:15	1	1.039	45274	8326	152	380	55	1.40(1.32-1.78)	
PCB-126											
325.8804	40:53	40:52	1	1.001	57780	11950	158	395	76		
327.8775	40:53	40:52	1	1.001	38014	7003	152	380	46	1.52(1.32-1.78)	
PCB-155L											
371.8817	31:25	31:23	2	0.791	3126022	636241	61	152	10430		
373.8788	31:25	31:23	2	0.791	2440920	495191	45	112	11004	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:43	39:41	2		3666551	700789	3131	7827	224		
373.8788	39:43	39:41	2		2863252	550451	134	335	4108	1.28(1.05-1.43)	
PCB-159L											
371.8817	41:57	41:56	1	0.982	4316259	836120	3131	7827	267		
373.8788	41:57	41:56	1	0.982	3349296	654941	134	335	4888	1.29(0.00-0.00)	
PCB-167L											
371.8817	42:43	42:42	1	1.075	4693699	890630	3131	7827	284		
373.8788	42:43	42:42	1	1.075	3649327	698734	134	335	5214	1.29(1.05-1.43)	
PCB-156L											
371.8817	43:53	43:51	2	1.105	9041076	1205030	3131	7827	385		
373.8788	43:53	43:51	2	1.105	7034747	943016	134	335	7037	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:53	43:51	2	1.105	9041076	1205030	3131	7827	385		
373.8788	43:53	43:51	2	1.105	7034747	943016	134	335	7037	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-169L											
371.8817	47:06	47:05	1	1.186	4637308	865319	3131	7827	276		
373.8788	47:06	47:05	1	1.186	3606174	663265	134	335	4950	1.29(1.05-1.43)	
PCB-155											
359.8415	31:26	31:25	2	1.001	28498	6679	1	2	6679		
361.8385	31:26	31:25	1	1.000	25251	4509	19	47	237	1.13(1.05-1.43)	
PCB-152											
359.8415	31:37	31:36	2	1.007	33160	6809	1	2	6809		RQ
	Empc Correction				27576	6414	1	2	6414		
361.8385	31:38	31:36	2	1.007	22239	5173	19	47	272	1.49(1.05-1.43)	
PCB-150											
359.8415	31:48	31:46	2	1.012	30792	6012	1	2	6012		
361.8385	31:48	31:46	2	1.012	25320	4810	19	47	253	1.22(1.05-1.43)	
PCB-136											
359.8415	32:10	32:08	2	1.024	31827	6576	1	2	6576		
361.8385	32:09	32:08	2	1.024	23889	5366	19	47	282	1.33(1.05-1.43)	
PCB-145											
359.8415	32:27	32:25	2	1.033	29992	5625	1	2	5625		
361.8385	32:27	32:25	2	1.033	21230	4131	19	47	217	1.41(1.05-1.43)	
PCB-148											
359.8415	33:58	33:57	2	1.081	21867	4602	1	2	4602		
361.8385	33:58	33:57	1	1.081	18501	3706	19	47	195	1.18(1.05-1.43)	
PCB-135											
359.8415	34:37	34:32	5	1.102	42637	5796	1	2	5796		M
361.8385	34:34	34:32	2	1.100	35628	4361	19	47	230	1.20(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:37	34:32	5	1.102	42637	5796	1	2	5796		M
361.8385	34:34	34:32	2	1.100	35628	4361	19	47	230	1.20(1.05-1.43)	M
PCB-154											
359.8415	34:48	34:47	1	1.108	27976	5637	1	2	5637		RQ
	Empc Correction				23329	4997	1	2	4997		
361.8385	34:49	34:47	2	1.108	18814	4030	19	47	212	1.49(1.05-1.43)	
PCB-144											
359.8415	35:07	35:06	1	1.118	26342	5515	1	2	5515		RQ
	Empc Correction				21450	4607	1	2	4607		
361.8385	35:07	35:06	1	1.118	17299	3716	19	47	196	1.52(1.05-1.43)	
PCB-147											
359.8415	35:29	35:27	2	1.130	74997	14106	142	355	99		
361.8385	35:29	35:27	2	1.130	62931	13366	90	225	149	1.19(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:29	35:27	2	1.130	74997	14106	142	355	99		
361.8385	35:29	35:27	2	1.130	62931	13366	90	225	149	1.19(1.05-1.43)	
PCB-134											
359.8415	35:41	35:45	-4	1.136	75510	8816	142	355	62		M
361.8385	35:41	35:45	-4	1.136	55371	6421	90	225	71	1.36(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-143 (C134)											M
359.8415	35:41	35:45	-4	1.136	75510	8816	142	355	62		M
361.8385	35:41	35:45	-4	1.136	55371	6421	90	225	71	1.36(1.05-1.43)	M
PCB-139											
359.8415	36:05	36:04	1	1.149	80579	14078	142	355	99		
361.8385	36:05	36:04	1	1.149	61217	11443	90	225	127	1.32(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:05	36:04	1	1.149	80579	14078	142	355	99		
361.8385	36:05	36:04	1	1.149	61217	11443	90	225	127	1.32(1.05-1.43)	
PCB-131											M
359.8415	36:17	36:15	2	1.155	32830	6849	142	355	48		
361.8385	36:16	36:15	0	1.154	27457	5101	90	225	57	1.20(1.05-1.43)	M
PCB-142											M
359.8415	36:25	36:24	0	1.159	32793	5711	142	355	40		
361.8385	36:26	36:24	2	1.160	25865	4667	90	225	52	1.27(1.05-1.43)	M
PCB-132											
359.8415	36:43	36:43	0	1.169	32080	5412	142	355	38		
361.8385	36:43	36:43	0	1.169	27443	4769	90	225	53	1.17(1.05-1.43)	
PCB-133											RQ
359.8415	37:14	37:14	0	1.185	42390	7904	142	355	56		
Empc Correction											
361.8385	37:15	37:14	1	1.186	29166	6863	90	225	76	1.45(1.05-1.43)	
PCB-165											
359.8415	37:39	37:37	2	0.881	49920	10011	142	355	71		
361.8385	37:38	37:37	1	0.881	39084	7597	90	225	84	1.28(1.05-1.43)	
PCB-146											RQ
359.8415	37:54	37:52	1	0.887	40729	7935	142	355	56		
361.8385	37:53	37:52	0	0.887	39349	7505	90	225	83	1.04(1.05-1.43)	
Empc Correction											
					32845	6399	90	225	71		
PCB-161											
359.8415	38:02	38:00	2	0.890	55964	10549	142	355	74		
361.8385	38:01	38:00	1	0.890	39157	7690	90	225	85	1.43(1.05-1.43)	
PCB-153											
359.8415	38:31	38:30	1	0.901	90793	13655	142	355	96		
361.8385	38:32	38:30	2	0.902	76090	11695	90	225	130	1.19(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:31	38:30	1	0.901	90793	13655	142	355	96		
361.8385	38:32	38:30	2	0.902	76090	11695	90	225	130	1.19(1.05-1.43)	
PCB-141											
359.8415	38:42	38:41	1	0.906	41769	7157	142	355	50		
361.8385	38:41	38:41	0	0.906	32955	5667	90	225	63	1.27(1.05-1.43)	
PCB-130											
359.8415	39:07	39:05	2	0.916	32553	7234	142	355	51		
361.8385	39:07	39:05	2	0.916	27150	5387	90	225	60	1.20(1.05-1.43)	
PCB-137											RQ
359.8415	39:20	39:18	3	0.921	30613	5935	142	355	42		
361.8385	39:19	39:18	1	0.920	31013	5495	90	225	61	0.99(1.05-1.43)	
Empc Correction											
					24687	4786	90	225	53		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-164											RQ
359.8415	39:28	39:26	2	0.924	51162	9620	142	355	68		
	Empc Correction				40603	9340	142	355	66		
361.8385	39:27	39:26	1	0.923	32745	7533	90	225	84	1.56(1.05-1.43)	
PCB-129											M
359.8415	39:45	39:44	1	0.930	163250	17221	142	355	121		
361.8385	39:46	39:44	2	0.931	139822	16794	90	225	187	1.17(1.05-1.43)	M
PCB-138 (C129)											M
359.8415	39:45	39:44	1	0.930	163250	17221	142	355	121		
361.8385	39:46	39:44	2	0.931	139822	16794	90	225	187	1.17(1.05-1.43)	M
PCB-160 (C129)											M
359.8415	39:45	39:44	1	0.930	163250	17221	142	355	121		
361.8385	39:46	39:44	2	0.931	139822	16794	90	225	187	1.17(1.05-1.43)	M
PCB-163 (C129)											M
359.8415	39:45	39:44	1	0.930	163250	17221	142	355	121		
361.8385	39:46	39:44	2	0.931	139822	16794	90	225	187	1.17(1.05-1.43)	M
PCB-158											
359.8415	40:08	40:07	1	0.939	60854	10219	142	355	72		
361.8385	40:08	40:07	1	0.939	48737	9380	90	225	104	1.25(1.05-1.43)	
PCB-128											RQ
359.8415	40:59	40:57	2	0.959	77195	12492	142	355	88		
361.8385	40:58	40:57	1	0.959	74383	11241	90	225	125	1.04(1.05-1.43)	
	Empc Correction				62254	10074	90	225	112		
PCB-166 (C128)											RQ
359.8415	40:59	40:57	2	0.959	77195	12492	142	355	88		
361.8385	40:58	40:57	1	0.959	74383	11241	90	225	125	1.04(1.05-1.43)	
	Empc Correction				62254	10074	90	225	112		
PCB-159											M
359.8415	41:58	41:58	0	0.982	63675	12341	142	355	87		
361.8385	41:59	41:58	1	0.983	51172	10428	90	225	116	1.24(1.05-1.43)	M
PCB-162											M
359.8415	42:16	42:15	0	0.989	59673	10121	142	355	71		M
361.8385	42:16	42:15	1	0.990	47062	8194	90	225	91	1.27(1.05-1.43)	M
PCB-167											
359.8415	42:45	42:44	1	1.001	48825	9243	142	355	65		
361.8385	42:45	42:44	1	1.001	42041	7816	90	225	87	1.16(1.05-1.43)	
PCB-156											
359.8415	43:55	43:53	2	1.001	105188	13424	142	355	95		
361.8385	43:54	43:53	1	1.001	78177	11594	90	225	129	1.35(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:55	43:53	2	1.001	105188	13424	142	355	95		
361.8385	43:54	43:53	1	1.001	78177	11594	90	225	129	1.35(1.05-1.43)	
PCB-169											M
359.8415	47:07	47:06	1	1.001	50749	9063	142	355	64		M
361.8385	47:07	47:06	0	1.000	40676	6854	90	225	76	1.25(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:08	37:07	1	0.820	3401229	645871	161	402	4012		
407.8398	37:08	37:07	1	0.820	3183971	611997	55	137	11127	1.07(0.89-1.21)	
PCB-180L											
405.8428	45:16	45:15	1		2634599	488940	161	402	3037		
407.8398	45:16	45:15	1		2447009	456329	55	137	8297	1.08(0.89-1.21)	
PCB-170L											
405.8428	46:31	46:30	1	1.028	2234132	415870	161	402	2583		
407.8398	46:31	46:30	1	1.028	2043648	378648	55	137	6885	1.09(0.89-1.21)	
PCB-189L											
405.8428	49:38	49:37	1	1.096	5328461	950340	2391	5977	397		
407.8398	49:38	49:37	1	1.096	5025183	910012	1691	4227	538	1.06(0.89-1.21)	
PCB-188											
393.8025	37:10	37:08	1	1.001	39690	7719	1	2	7719		
395.7995	37:10	37:08	1	1.001	37386	7793	1	2	7793	1.06(0.89-1.21)	
PCB-179											
393.8025	37:29	37:28	1	1.010	41308	8819	1	2	8819		
395.7995	37:29	37:28	1	1.010	35794	7124	1	2	7124	1.15(0.89-1.21)	
PCB-184											
393.8025	38:01	38:00	1	1.024	39427	8484	1	2	8484		
395.7995	38:02	38:00	2	1.024	34722	5943	1	2	5943	1.14(0.89-1.21)	
PCB-176											
393.8025	38:23	38:21	2	1.034	31774	5940	1	2	5940		
395.7995	38:21	38:21	0	1.033	30788	5246	1	2	5246	1.03(0.89-1.21)	
PCB-186											
393.8025	38:50	38:48	2	1.046	36094	6995	1	2	6995		
395.7995	38:49	38:48	1	1.045	39575	8243	1	2	8243	0.91(0.89-1.21)	
PCB-178											
393.8025	40:12	40:11	0	1.083	23491	4557	1	2	4557		
395.7995	40:12	40:11	0	1.083	25665	5138	1	2	5138	0.92(0.89-1.21)	
PCB-175											
393.8025	40:50	40:49	0	1.100	23301	4772	1	2	4772		RQ
395.7995	40:50	40:49	1	1.100	26892	5627	1	2	5627	0.87(0.89-1.21)	
Empc Correction					22191	4544	1	2	4544		
PCB-187											
393.8025	41:06	41:05	1	1.107	31206	6098	1	2	6098		
395.7995	41:07	41:05	2	1.107	29730	5603	1	2	5603	1.05(0.89-1.21)	
PCB-182											
393.8025	41:19	41:18	1	1.113	22957	5076	1	2	5076		
395.7995	41:19	41:18	1	1.113	25235	4469	1	2	4469	0.91(0.89-1.21)	
PCB-183											
393.8025	41:43	41:42	1	1.124	59157	5830	1	2	5830		M
395.7995	41:49	41:42	7	1.126	56781	5334	1	2	5334	1.04(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:43	41:42	1	1.124	59157	5830	1	2	5830		M
395.7995	41:49	41:42	7	1.126	56781	5334	1	2	5334	1.04(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-174											RQ
393.8025	41:57	41:56	1	1.130	25586	6498	1	2	6498		
	Empc Correction				21844	4920	1	2	4920		
395.7995	41:57	41:56	1	1.130	20804	4686	1	2	4686	1.23(0.89-1.21)	
PCB-177											M
393.8025	42:23	42:22	1	1.142	27807	5386	1	2	5386		
395.7995	42:23	42:22	1	1.142	25600	5611	1	2	5611	1.09(0.89-1.21)	M
PCB-181											
393.8025	42:47	42:45	2	1.152	28839	6551	1	2	6551		
395.7995	42:47	42:45	2	1.152	26767	5517	1	2	5517	1.08(0.89-1.21)	
PCB-171											RQ
393.8025	43:01	42:59	2	1.158	61447	9445	1	2	9445		
	Empc Correction				52774	8984	1	2	8984		
395.7995	43:00	42:59	1	1.158	50261	8557	1	2	8557	1.22(0.89-1.21)	
PCB-173 (C171)											RQ
393.8025	43:01	42:59	2	1.158	61447	9445	1	2	9445		
	Empc Correction				52774	8984	1	2	8984		
395.7995	43:00	42:59	1	1.158	50261	8557	1	2	8557	1.22(0.89-1.21)	
PCB-172											
393.8025	44:38	44:37	1	0.900	25813	4966	1	2	4966		
395.7995	44:38	44:37	0	0.899	21380	3770	1	2	3770	1.21(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	0	0.905	35936	6758	1	2	6758		
395.7995	44:55	44:54	1	0.905	39187	7547	1	2	7547	0.92(0.89-1.21)	
PCB-180											
393.8025	45:16	45:14	2	0.912	65744	9105	1	2	9105		
395.7995	45:17	45:14	3	0.913	64705	8318	1	2	8318	1.02(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:16	45:14	2	0.912	65744	9105	1	2	9105		
395.7995	45:17	45:14	3	0.913	64705	8318	1	2	8318	1.02(0.89-1.21)	
PCB-191											
393.8025	45:39	45:37	2	0.920	38736	9026	1	2	9026		
395.7995	45:38	45:37	1	0.920	34236	6204	1	2	6204	1.13(0.89-1.21)	
PCB-170											M
393.8025	46:34	46:32	2	0.938	28044	4293	1	2	4293		M
395.7995	46:32	46:32	0	0.938	23723	4161	1	2	4161	1.18(0.89-1.21)	
PCB-190											
393.8025	47:04	47:02	1	0.948	38910	7847	1	2	7847		
395.7995	47:04	47:02	2	0.949	35673	6687	1	2	6687	1.09(0.89-1.21)	
PCB-189											
393.8025	49:39	49:38	1	1.001	48363	9044	149	372	61		
395.7995	49:39	49:38	1	1.001	49533	8535	78	195	109	0.98(0.89-1.21)	
PCB-202L											
439.8038	42:30	42:28	2	0.821	2410974	447023	31	77	14420		
441.8008	42:30	42:28	2	0.821	2692357	497606	25	62	19904	0.90(0.76-1.02)	

	Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
	PCB-194L											
	439.8038	51:44	51:43	1		3391392	605680	200	500	3028		
	441.8008	51:44	51:43	1		3763396	664861	236	590	2817	0.90(0.76-1.02)	
	PCB-205L											
	439.8038	52:13	52:11	1	1.009	4007068	750604	200	500	3753		
	441.8008	52:13	52:11	1	1.009	4459878	834655	236	590	3537	0.90(0.76-1.02)	
	PCB-202											
	427.7635	42:31	42:29	2	1.001	24187	5182	25	62	207		
	429.7606	42:31	42:29	1	1.000	26882	4715	20	50	236	0.90(0.76-1.02)	
	PCB-201											
	427.7635	43:26	43:25	1	1.022	25699	5628	25	62	225		RQ
		Empc Correction				22243	4728	25	62	189		
	429.7606	43:26	43:25	1	1.022	24993	5313	20	50	266	1.03(0.76-1.02)	
	PCB-204											
	427.7635	44:07	44:05	2	1.038	27131	5525	25	62	221		RQ
		Empc Correction				23488	4643	25	62	186		
	429.7606	44:08	44:05	3	1.038	26392	5217	20	50	261	1.03(0.76-1.02)	
	PCB-197											
	427.7635	44:20	44:19	1	1.043	30198	5351	25	62	214		RQ
		Empc Correction				25907	6117	25	62	245		
	429.7606	44:19	44:19	0	1.043	29109	6874	20	50	344	1.04(0.76-1.02)	
	PCB-200											
	427.7635	44:27	44:25	1	1.046	20266	4644	25	62	186		RQ
	429.7606	44:27	44:25	1	1.046	32789	5905	20	50	295	0.62(0.76-1.02)	
		Empc Correction				22770	5217	20	50	261		
	PCB-198											
	427.7635	47:12	47:12	0	1.111	41819	6070	25	62	243		
	429.7606	47:13	47:12	1	1.111	46314	6928	20	50	346	0.90(0.76-1.02)	
	PCB-199 (C198)											
	427.7635	47:12	47:12	0	1.111	41819	6070	25	62	243		
	429.7606	47:13	47:12	1	1.111	46314	6928	20	50	346	0.90(0.76-1.02)	
	PCB-196											
	427.7635	47:54	47:53	1	0.917	20422	4369	25	62	175		
	429.7606	47:54	47:53	1	0.917	20849	3671	20	50	184	0.98(0.76-1.02)	
	PCB-203											
	427.7635	48:06	48:05	1	0.921	21176	4041	25	62	162		
	429.7606	48:06	48:05	1	0.921	23950	5332	20	50	267	0.88(0.76-1.02)	
	PCB-195											
	427.7635	49:24	49:23	1	0.946	36050	6413	75	187	86		M
	429.7606	49:24	49:23	1	0.946	38418	7430	79	197	94	0.94(0.76-1.02)	M
	PCB-194											
	427.7635	51:47	51:44	2	0.992	38886	6674	75	187	89		
	429.7606	51:46	51:44	1	0.991	45707	8995	79	197	114	0.85(0.76-1.02)	
	PCB-205											
	427.7635	52:13	52:13	1	1.000	47399	9141	75	187	122		
	429.7606	52:15	52:13	2	1.001	46784	7912	79	197	100	1.01(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-208L											
473.7648	49:10	49:09	1	0.950	3048337	549815	593	1482	927		
475.7619	49:10	49:09	1	0.950	3709649	691649	736	1840	940	0.82(0.65-0.89)	
PCB-206L											
473.7648	53:58	53:57	1	1.043	2213992	401420	593	1482	677		
475.7619	53:58	53:57	1	1.043	2694765	476469	736	1840	647	0.82(0.65-0.89)	
PCB-208											
461.7246	49:12	49:10	2	1.001	31684	6235	190	475	33		M
463.7216	49:11	49:10	1	1.001	47975	9524	451	1127	21	0.66(0.65-0.89)	M
PCB-207											
461.7246	50:06	50:05	1	1.019	36477	7014	190	475	37		M
463.7216	50:07	50:05	2	1.020	43355	7763	451	1127	17	0.84(0.65-0.89)	M
PCB-206											
461.7246	53:59	53:58	1	1.000	28296	5591	190	475	29		M
463.7216	53:59	53:58	1	1.000	39161	6640	451	1127	15	0.72(0.65-0.89)	M
PCB-209L											
507.7258	55:36	55:34	2	1.075	1971427	348436	103	257	3383		
509.7229	55:36	55:34	2	1.075	2757597	466485	62	155	7524	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:37	55:36	1	1.000	21443	4804	8	20	601		
497.6826	55:38	55:36	2	1.000	30397	6121	11	27	556	0.71(0.59-0.79)	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L11668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

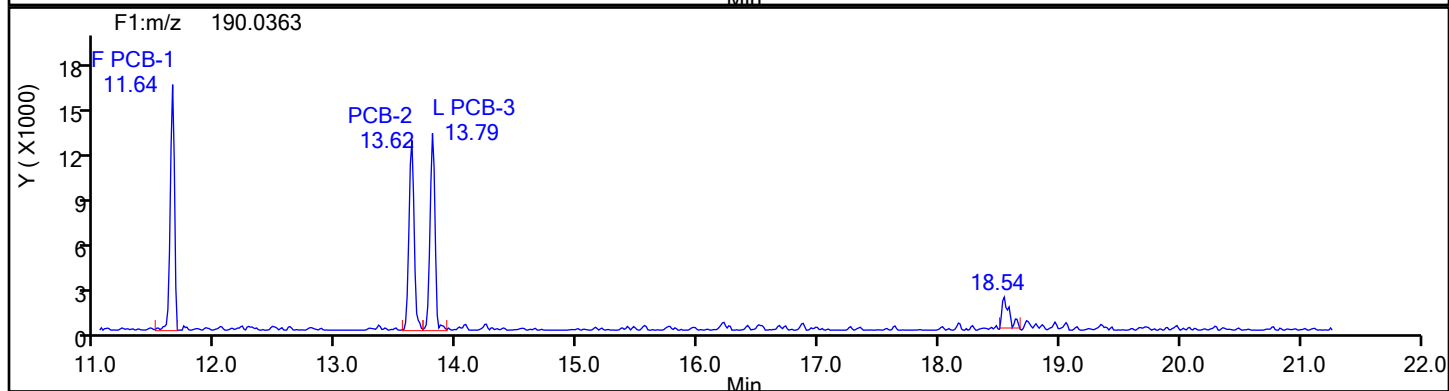
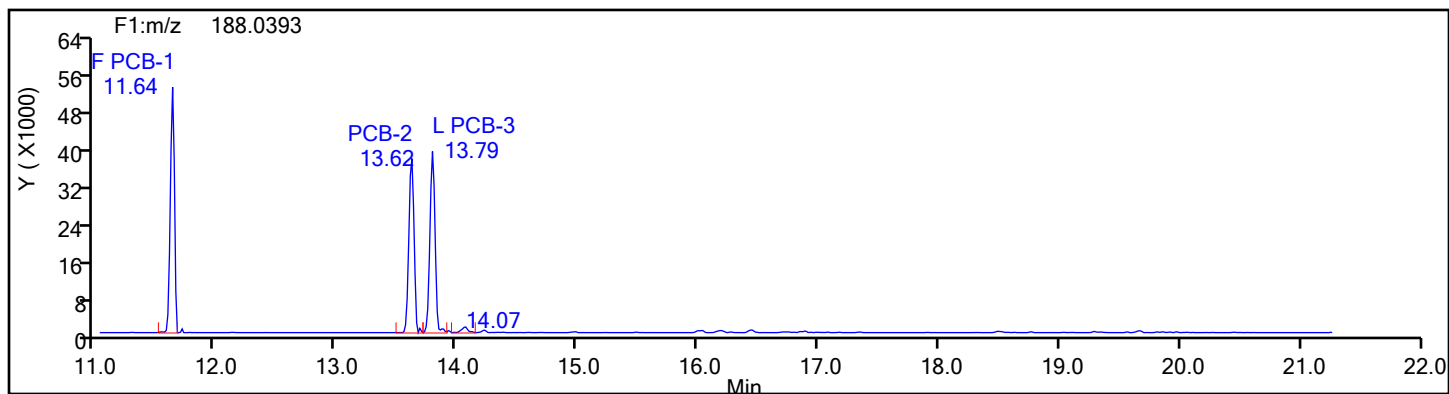
Worklist#: 87130

Sample Line#: 2

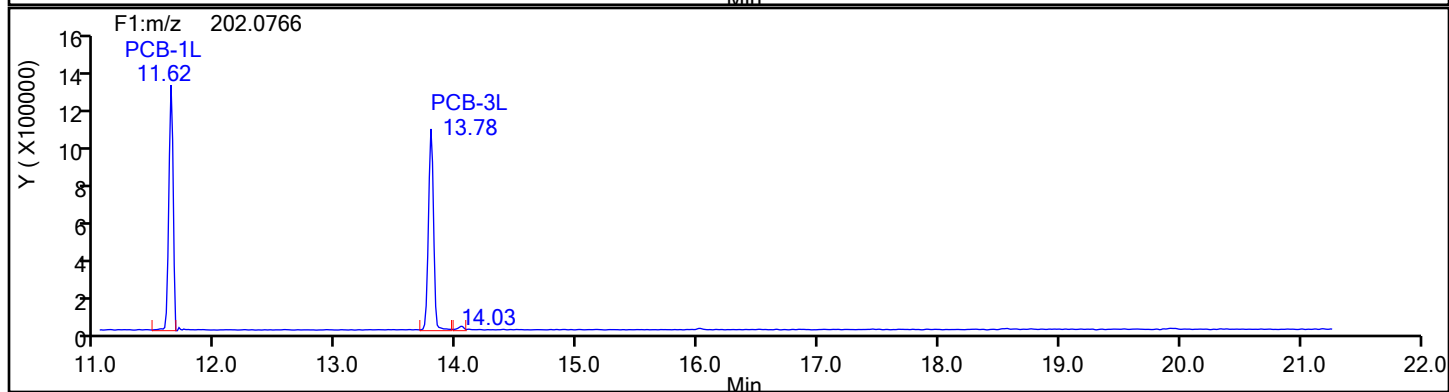
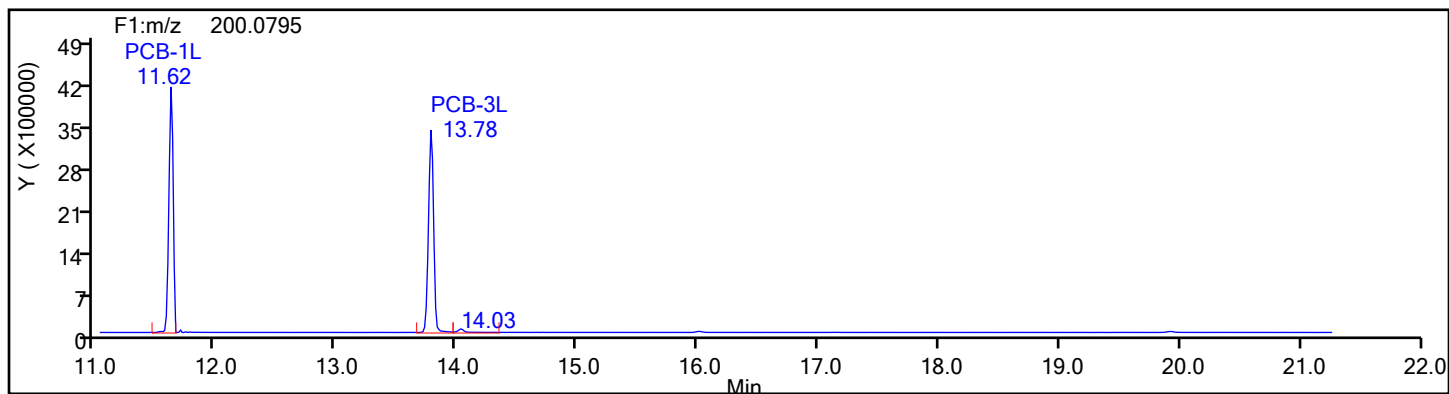
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

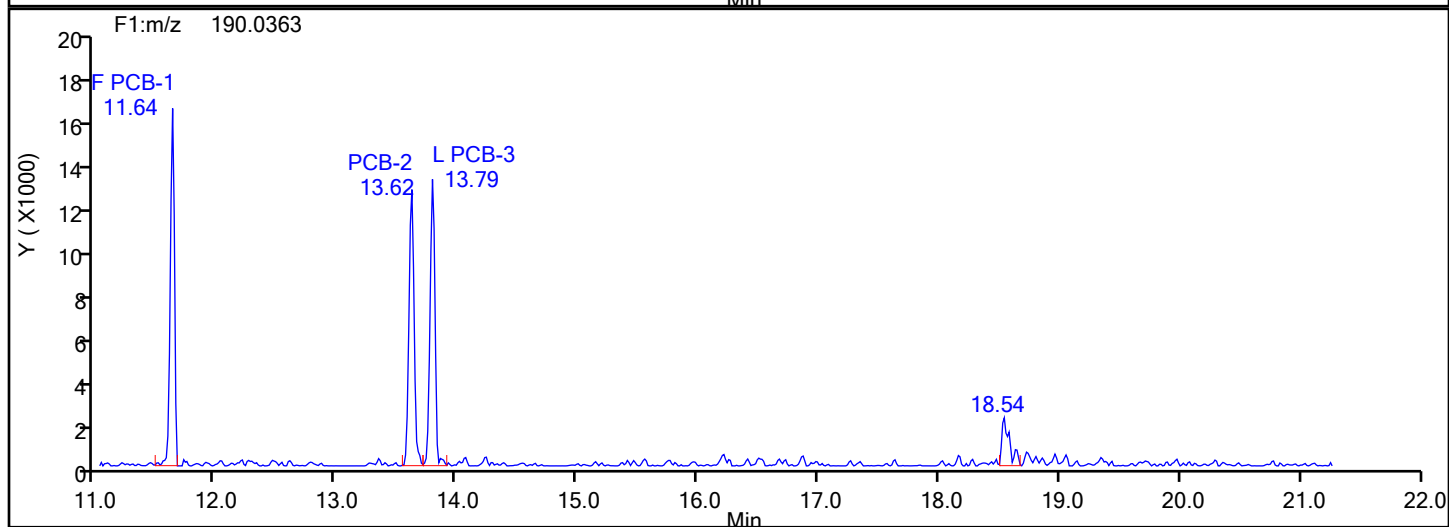
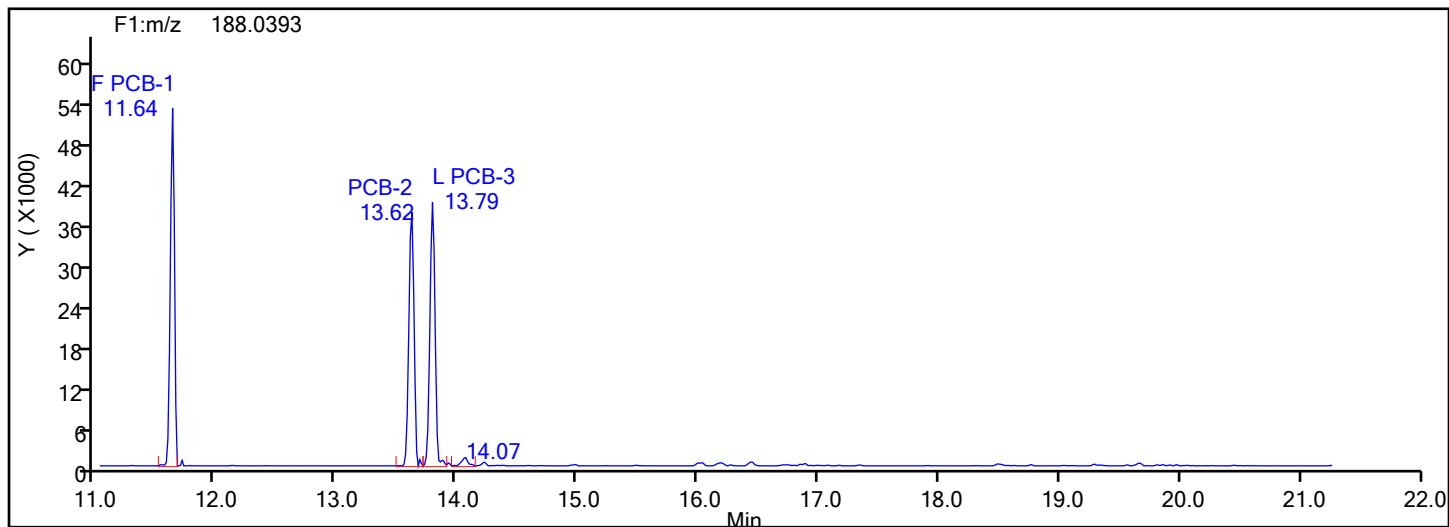
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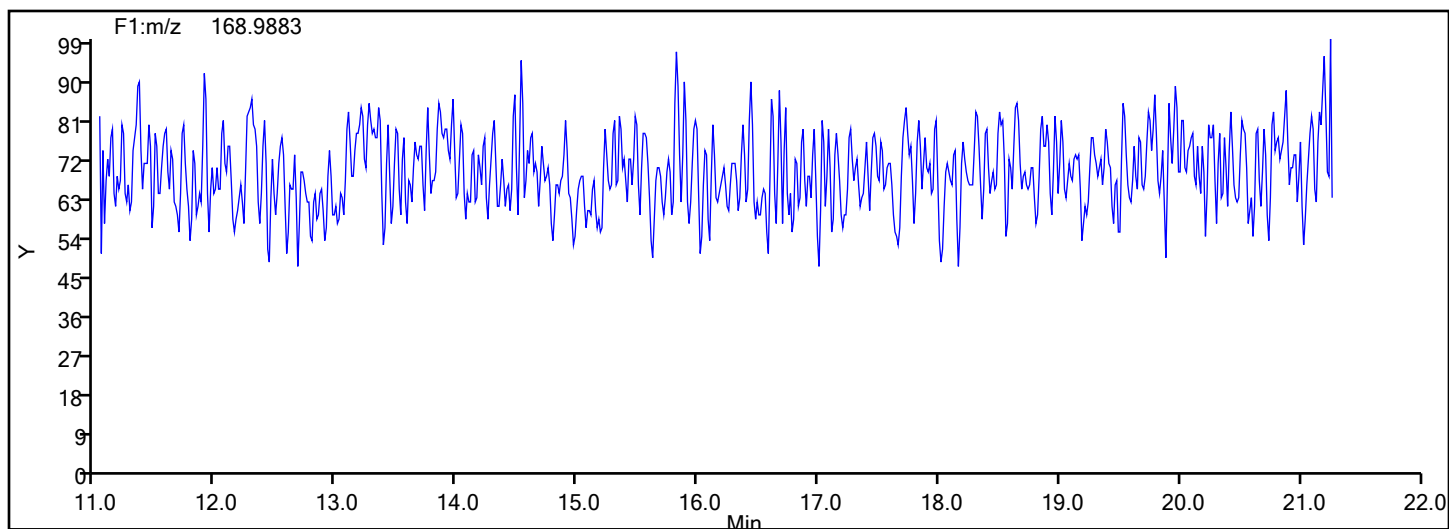
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1

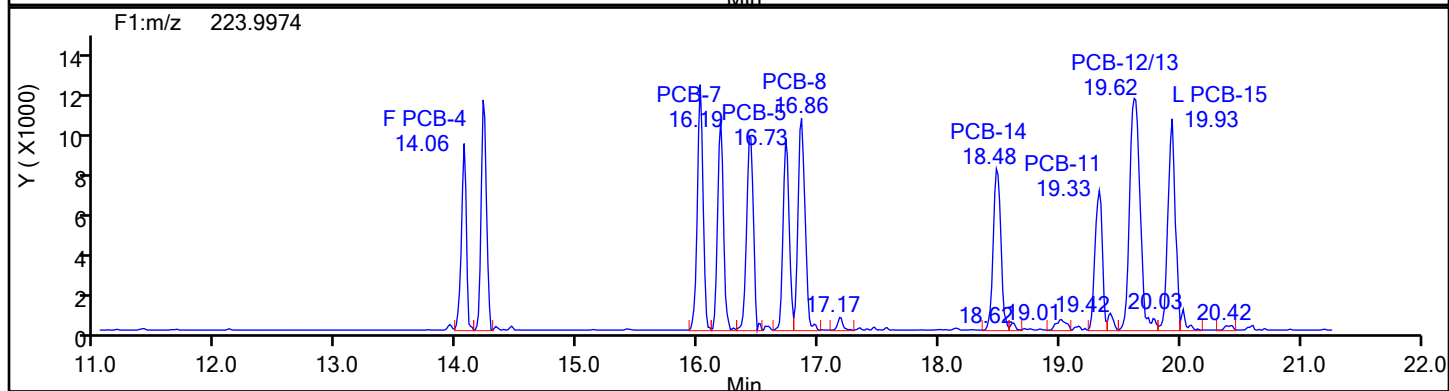


MoPCB F1 Lock Mass

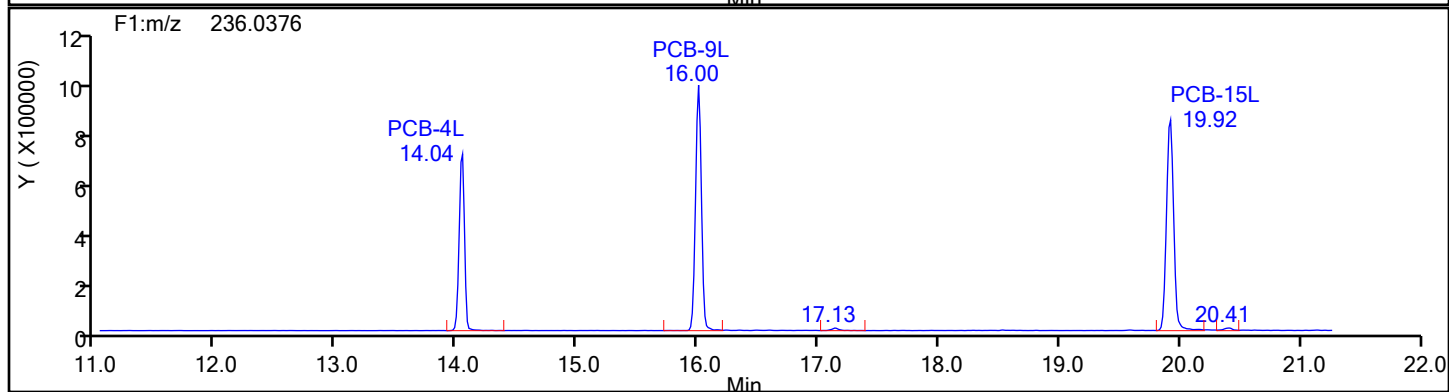
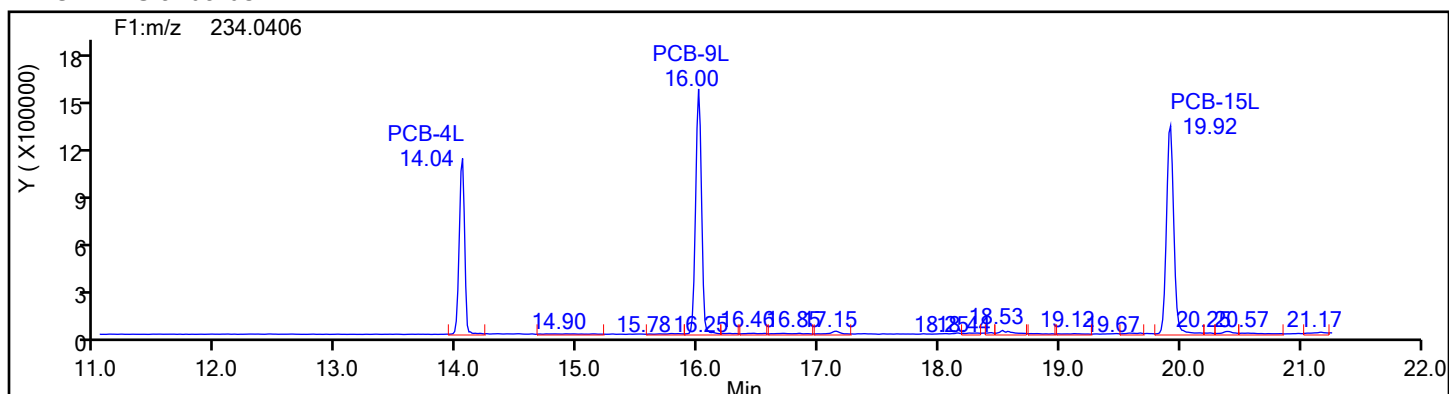


Column Dia: 0.25 mm

Column Dia: 0.25 mm



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

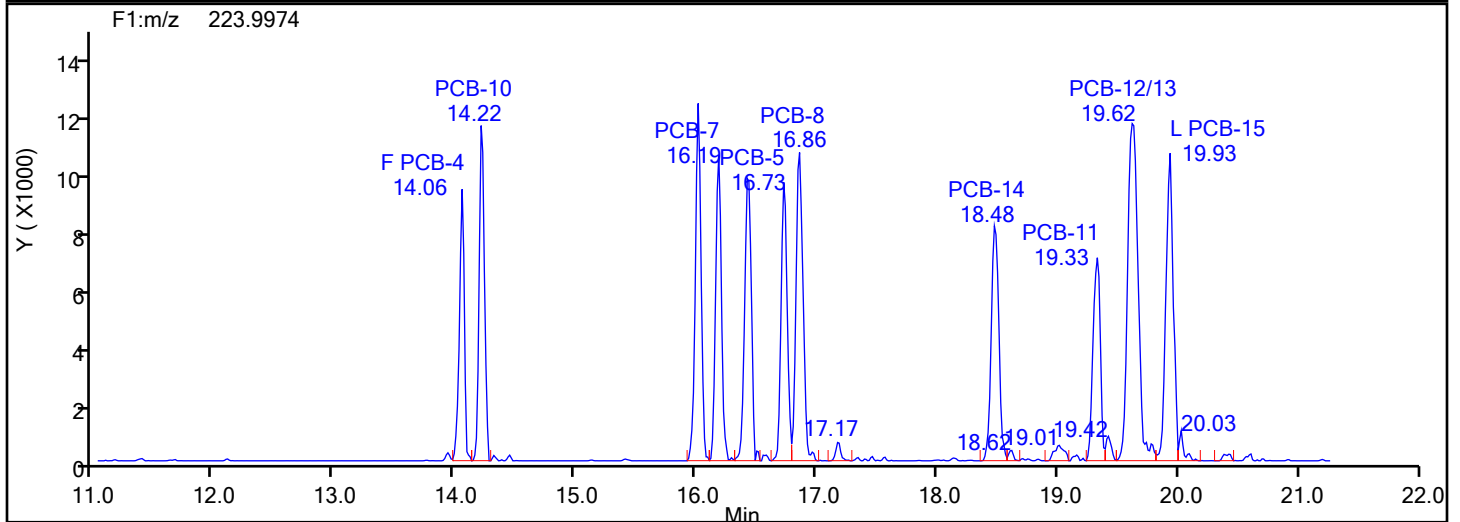
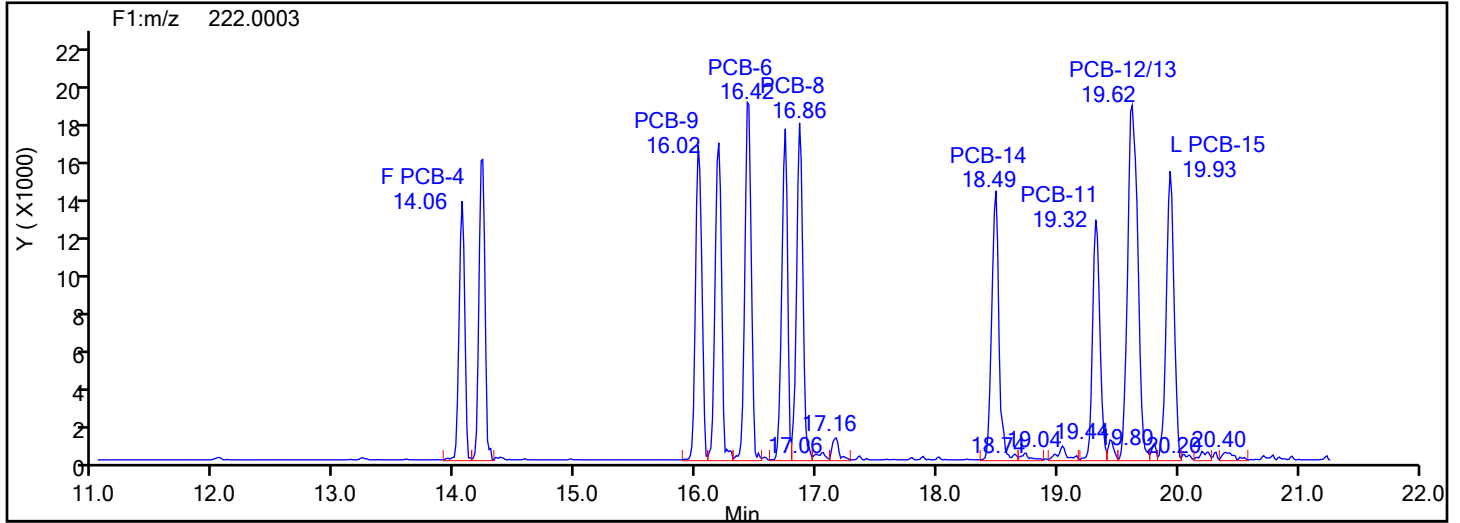
Worklist#: 87130

Sample Line#: 2

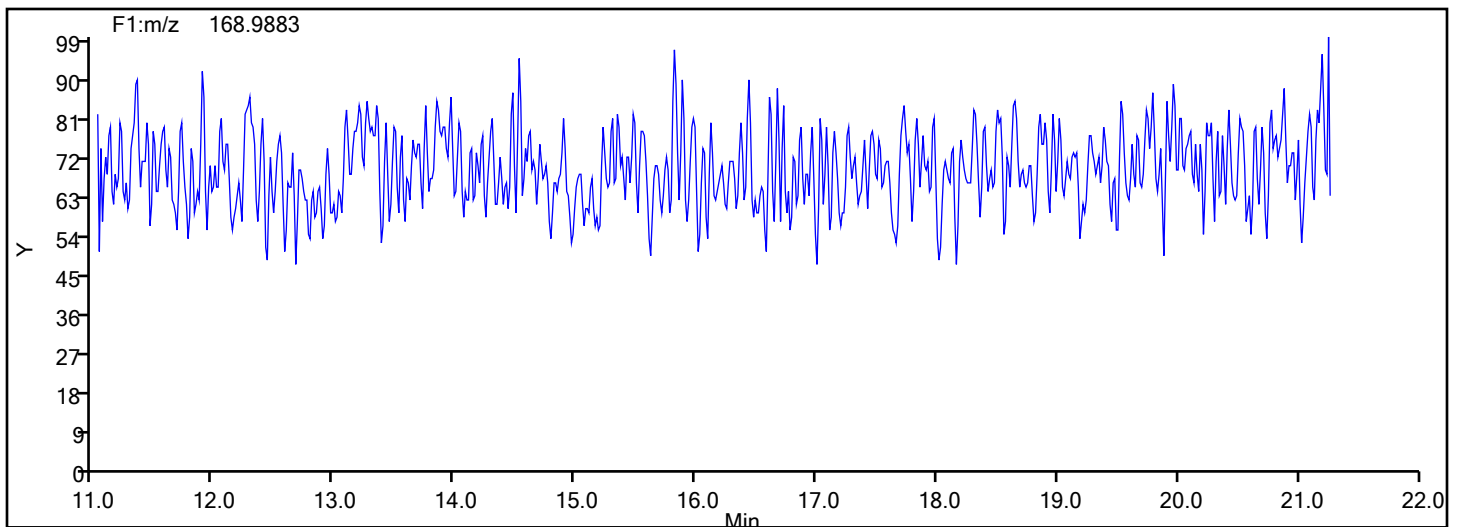
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

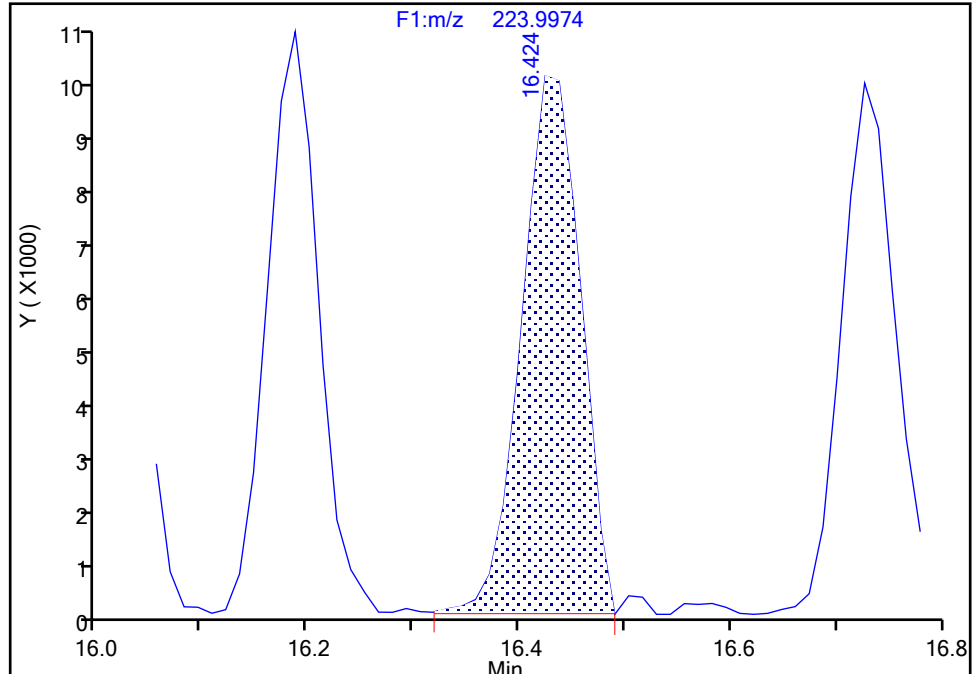
Detector F1(11.07 :21.70)

PCB-6, CAS: 25569-80-6

Signal: 2

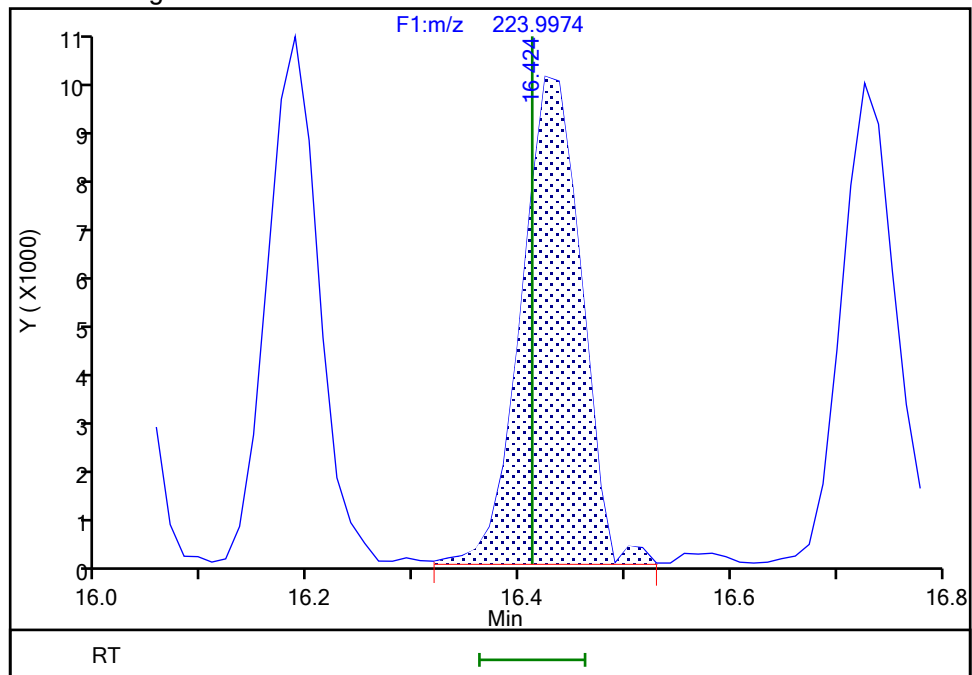
RT: 16.42
Area: 37615
Amount: 0.998581
Amount Units: pg/ul

Processing Integration Results



RT: 16.42
Area: 38133
Amount: 0.989120
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:42:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

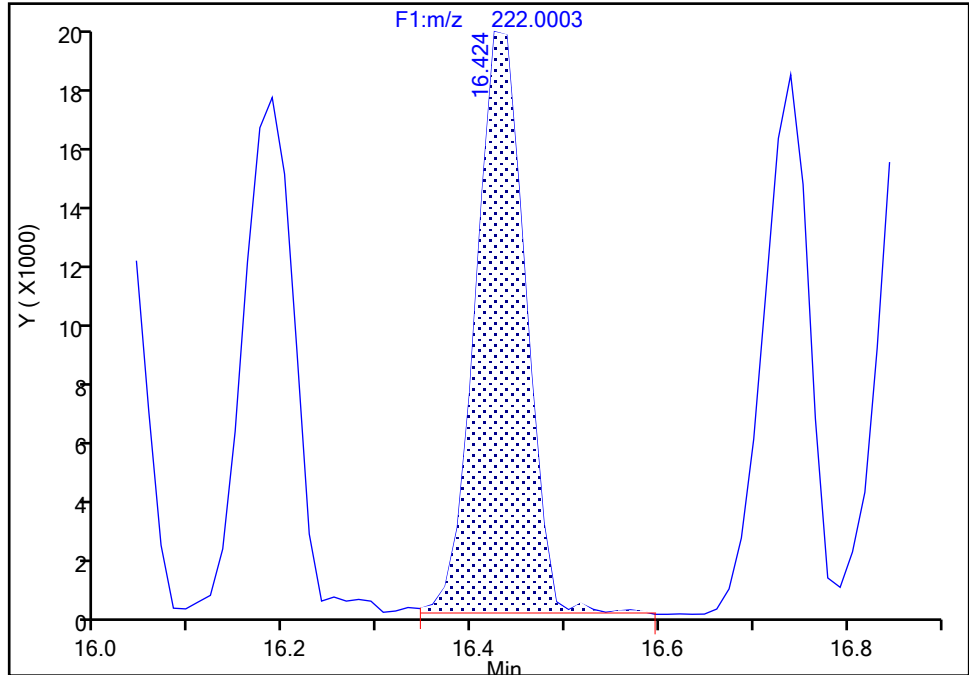
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Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-6, CAS: 25569-80-6

Signal: 1

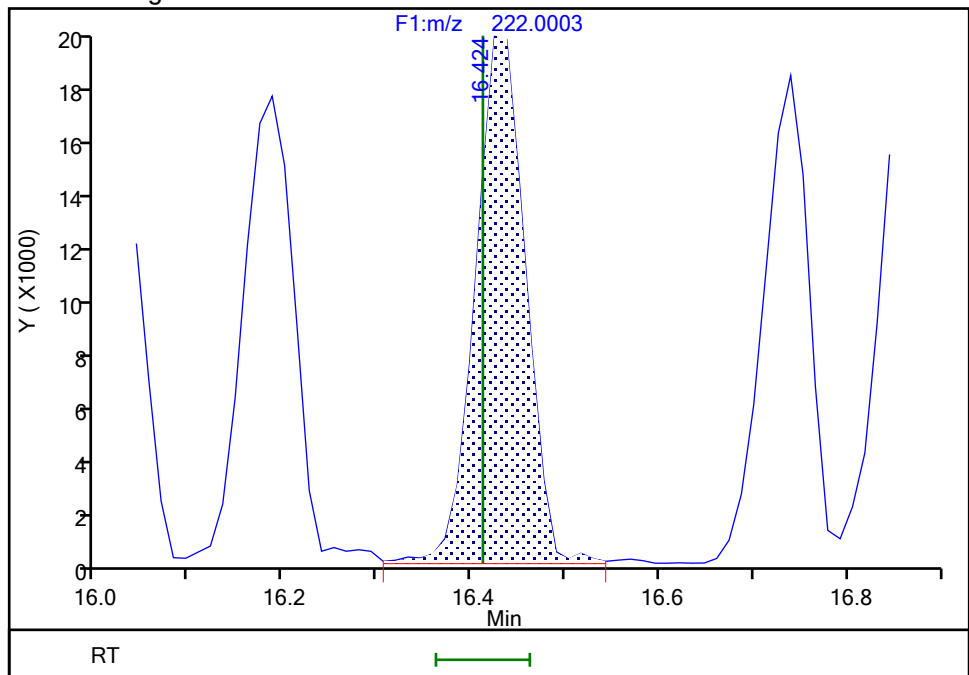
RT: 16.42
Area: 70677
Amount: 0.998581
Amount Units: pg/ul

Processing Integration Results



RT: 16.42
Area: 70638
Amount: 0.989120
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:42:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-015227
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

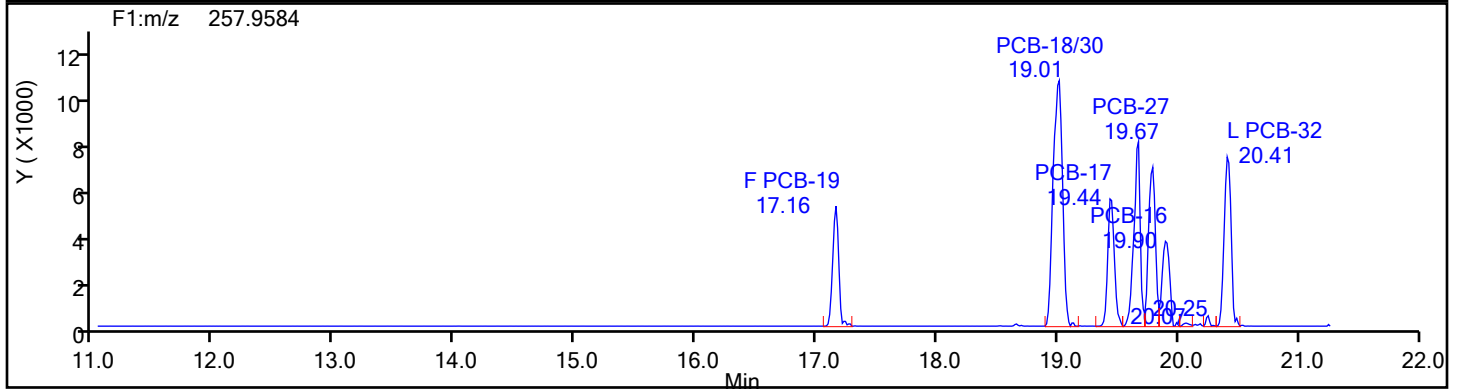
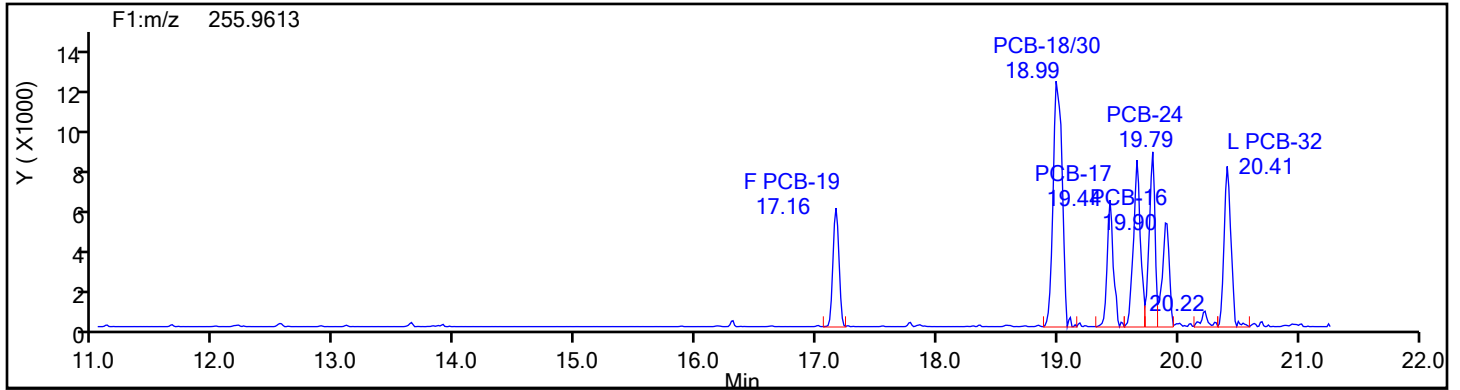
Worklist#: 87130

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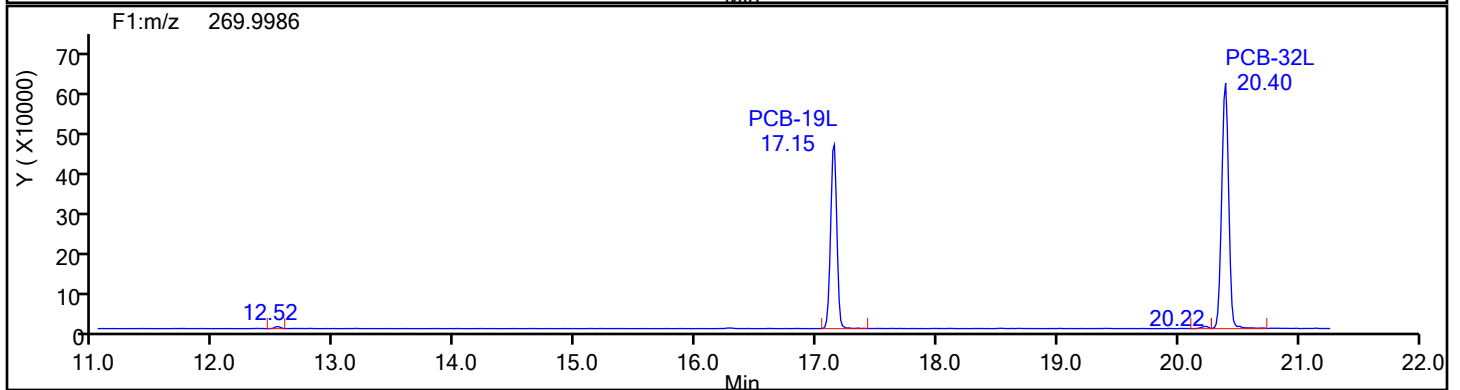
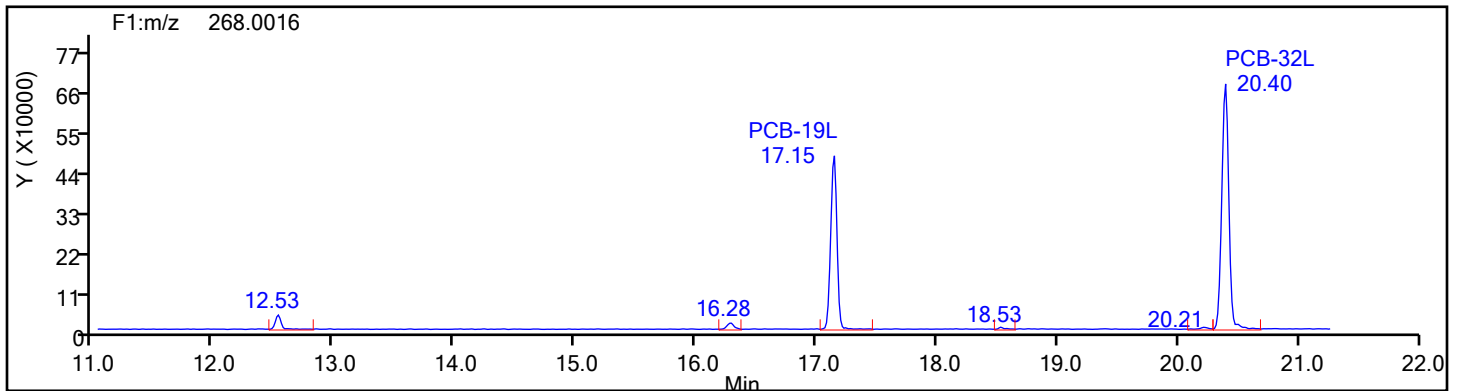
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

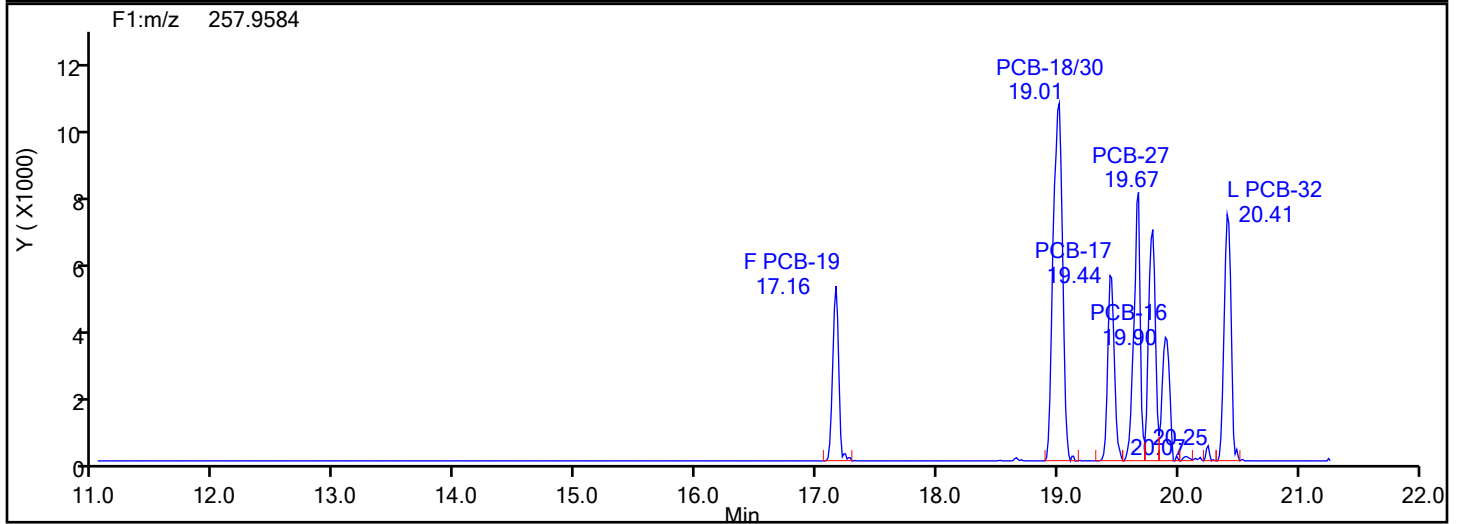
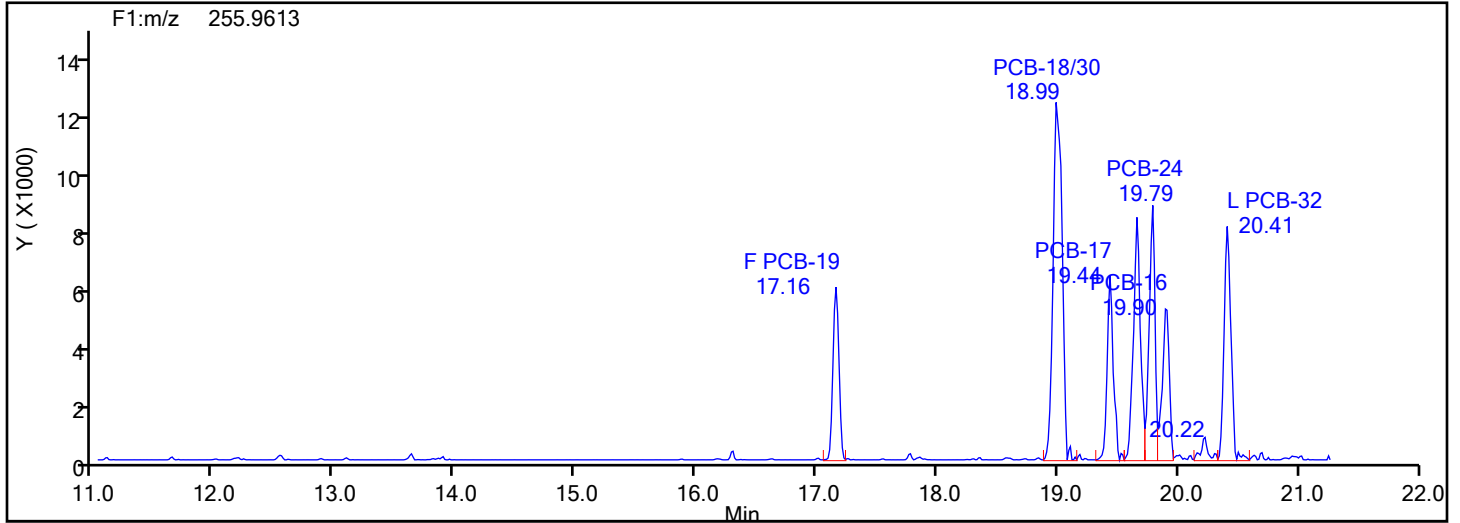
Worklist#: 87130

Sample Line#: 2

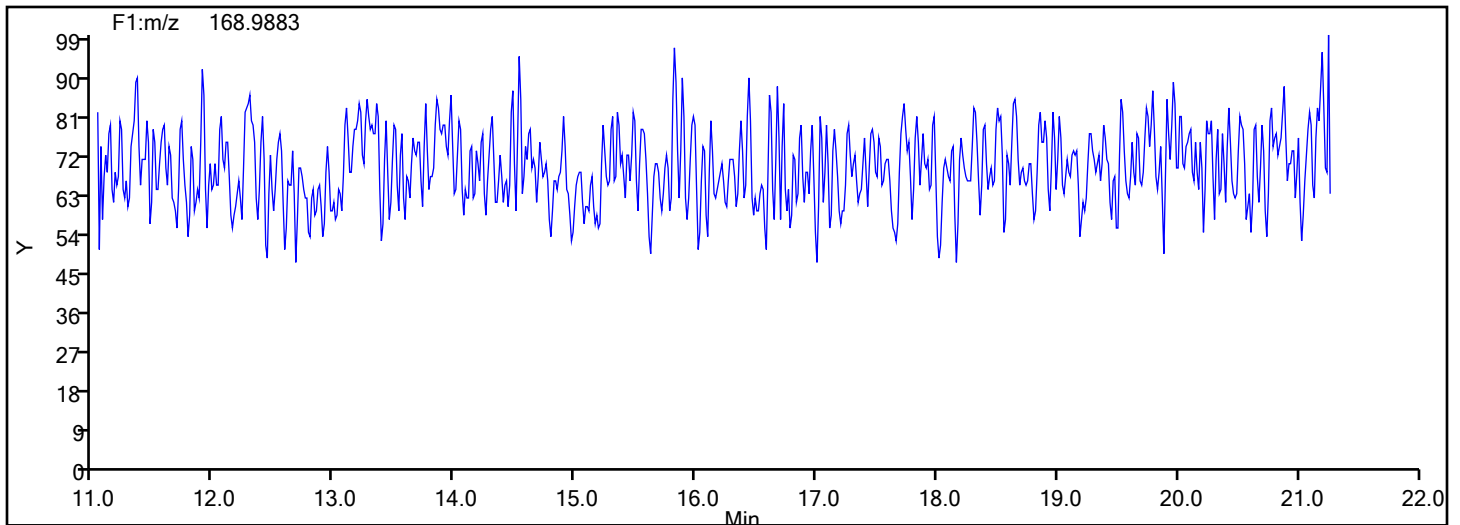
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

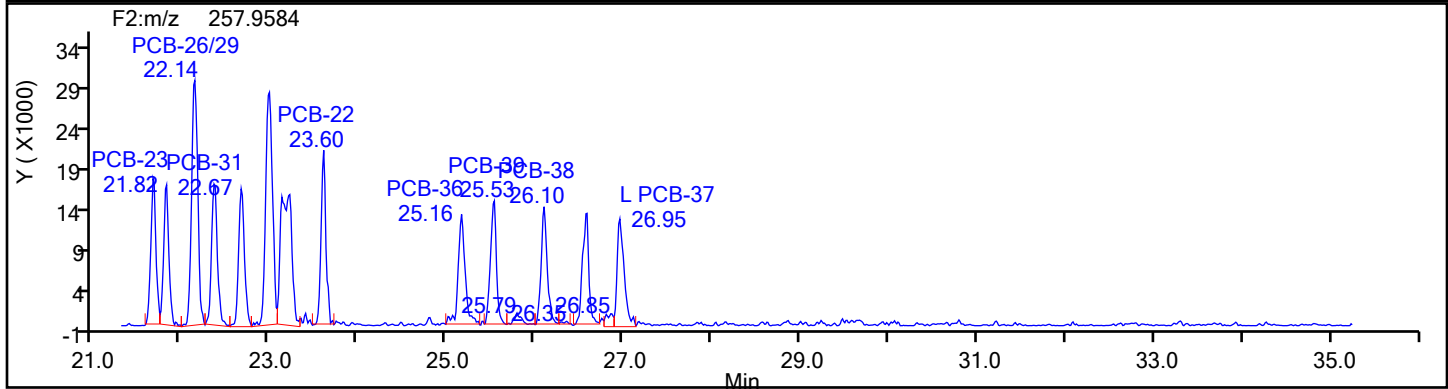
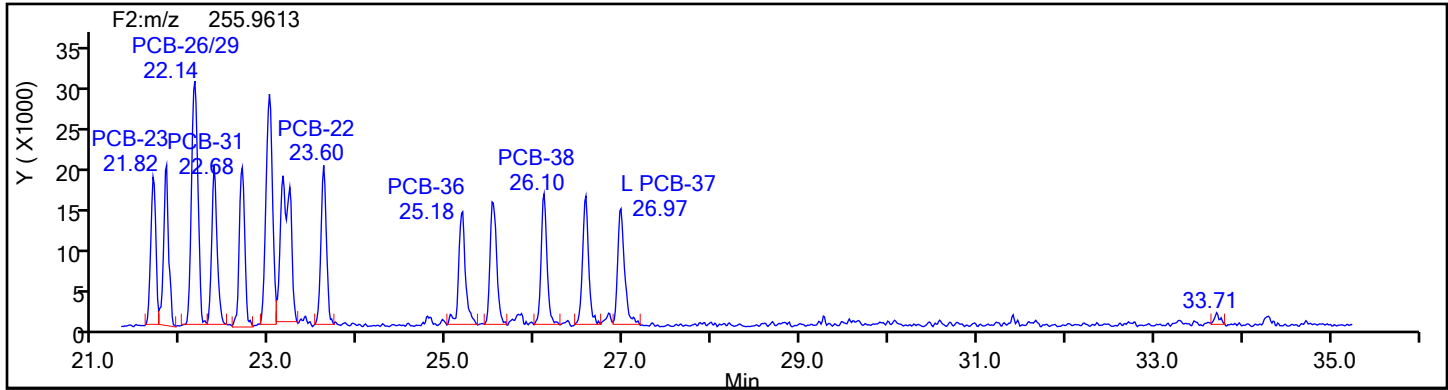
Worklist#: 87130

Sample Line#: 2

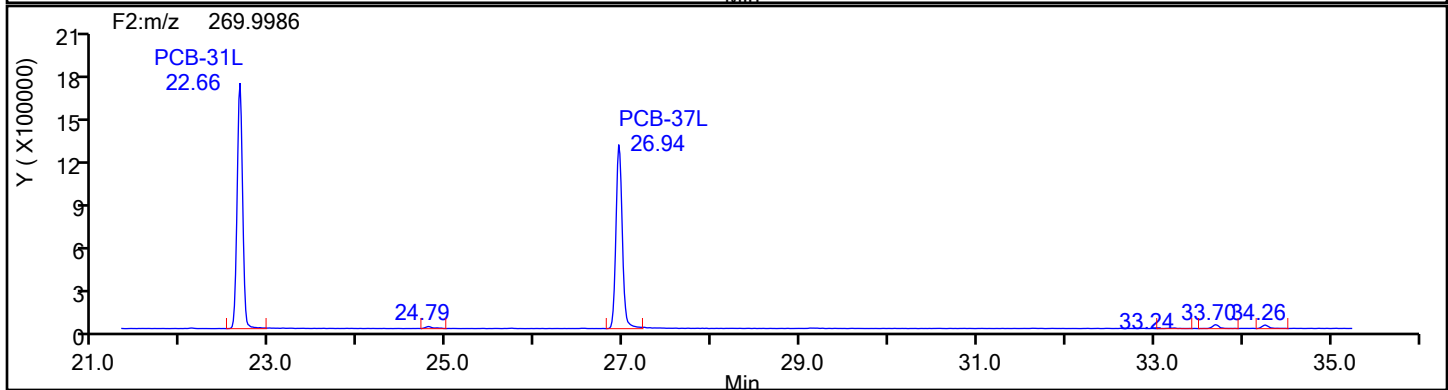
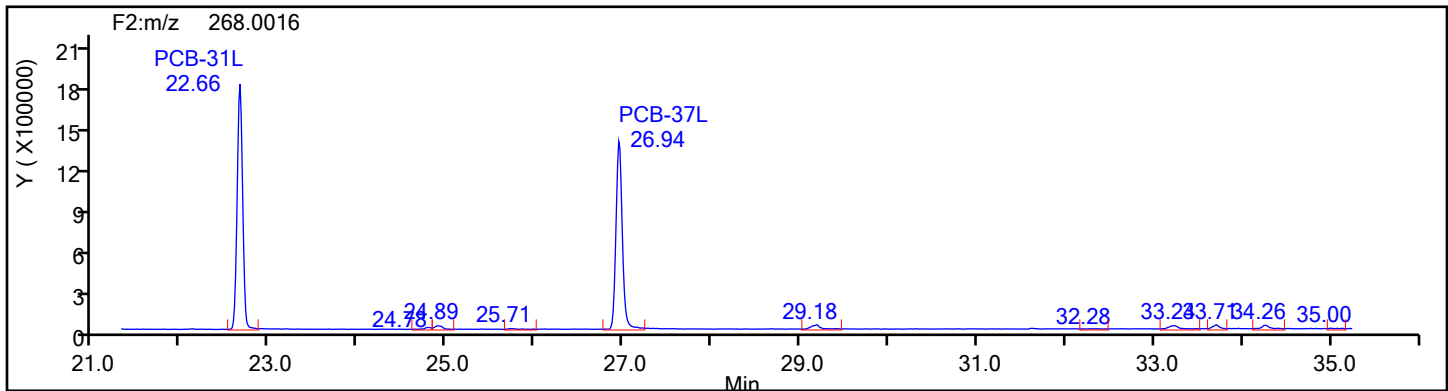
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

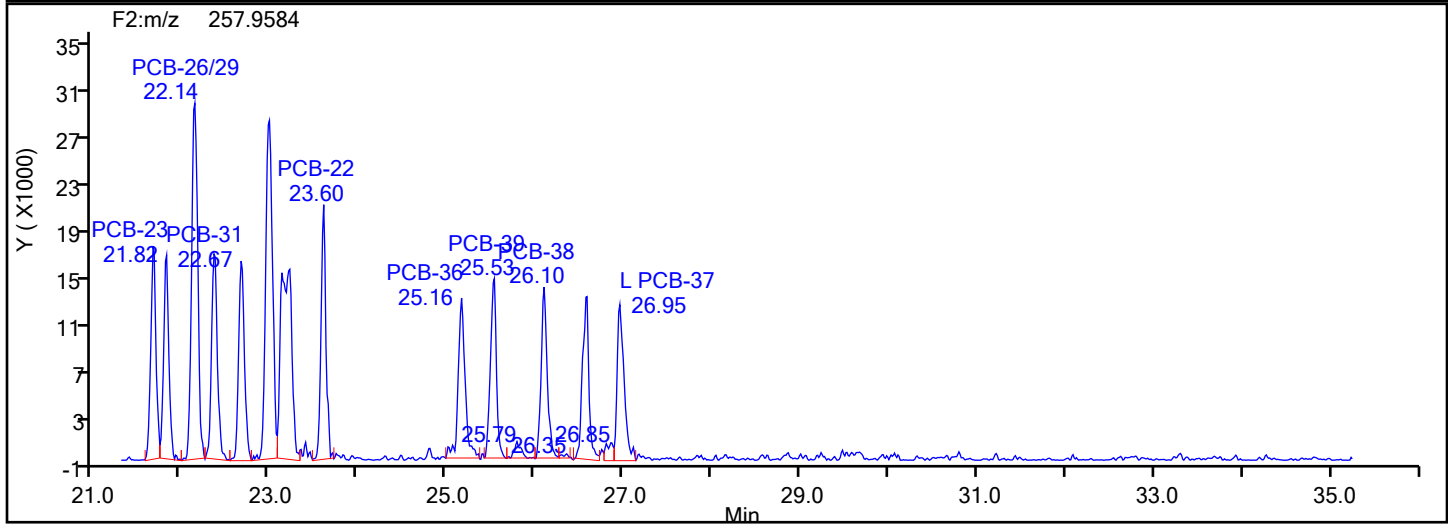
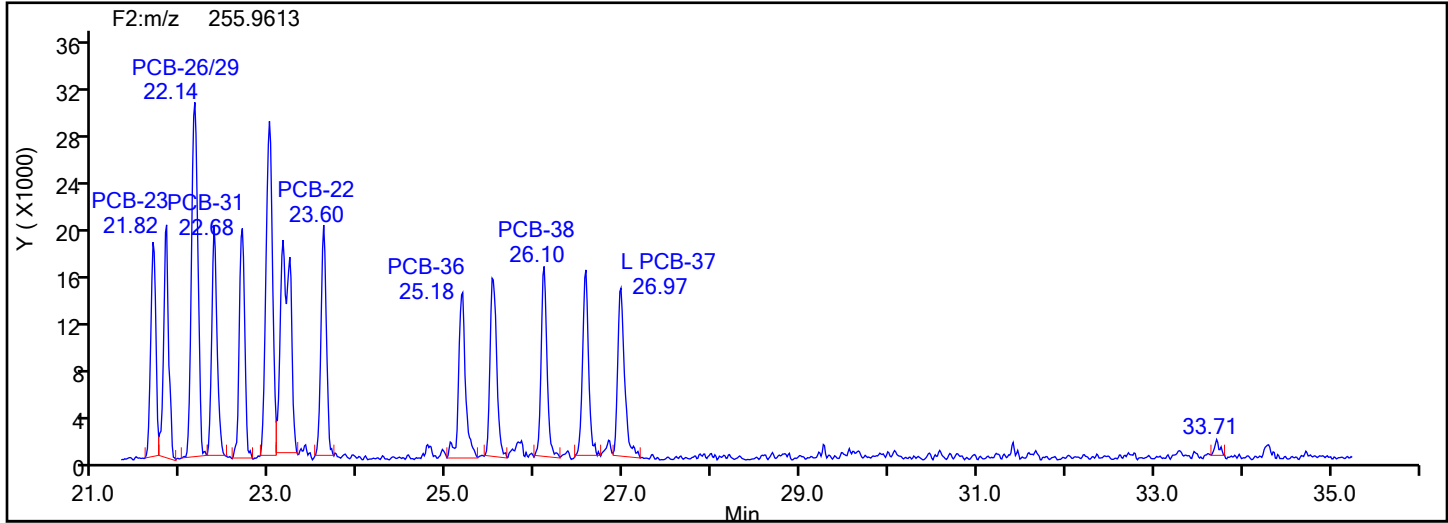
Worklist#: 87130

Sample Line#: 2

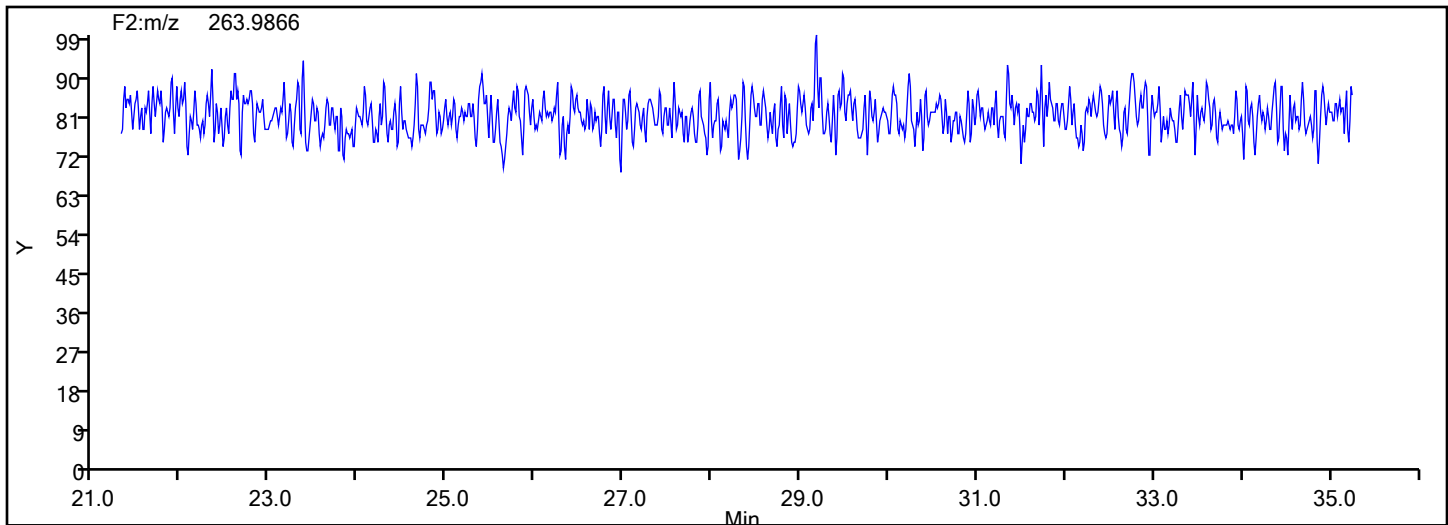
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass

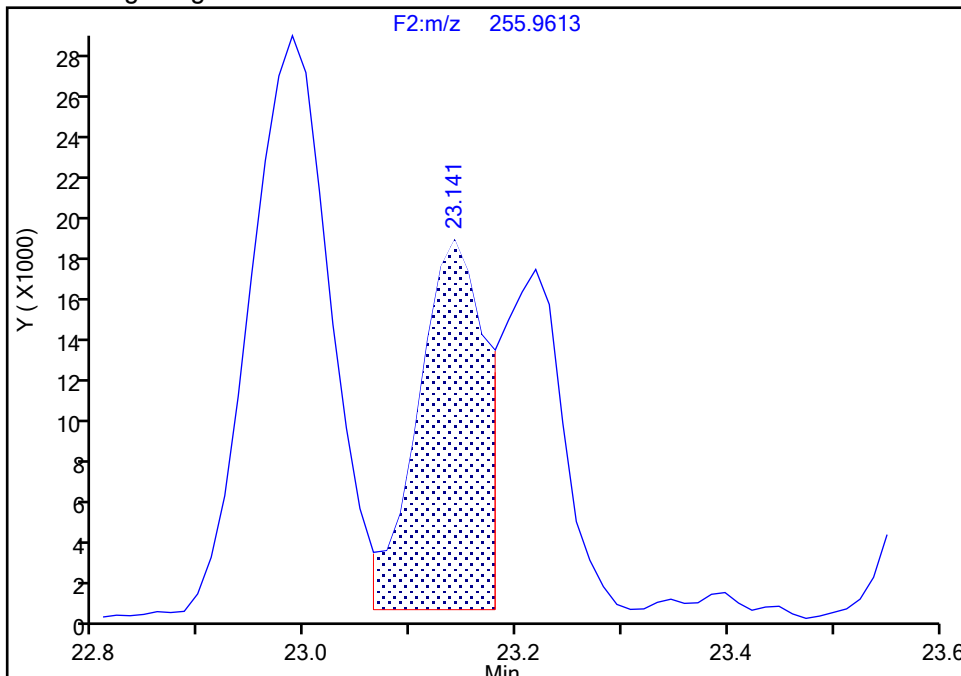


Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d		
Injection Date:	31-May-2024 16:53:00	Instrument ID:	D2D
Lims ID:	IC L2		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl (0.25 mm)	Detector	F2(21.81 :35.54

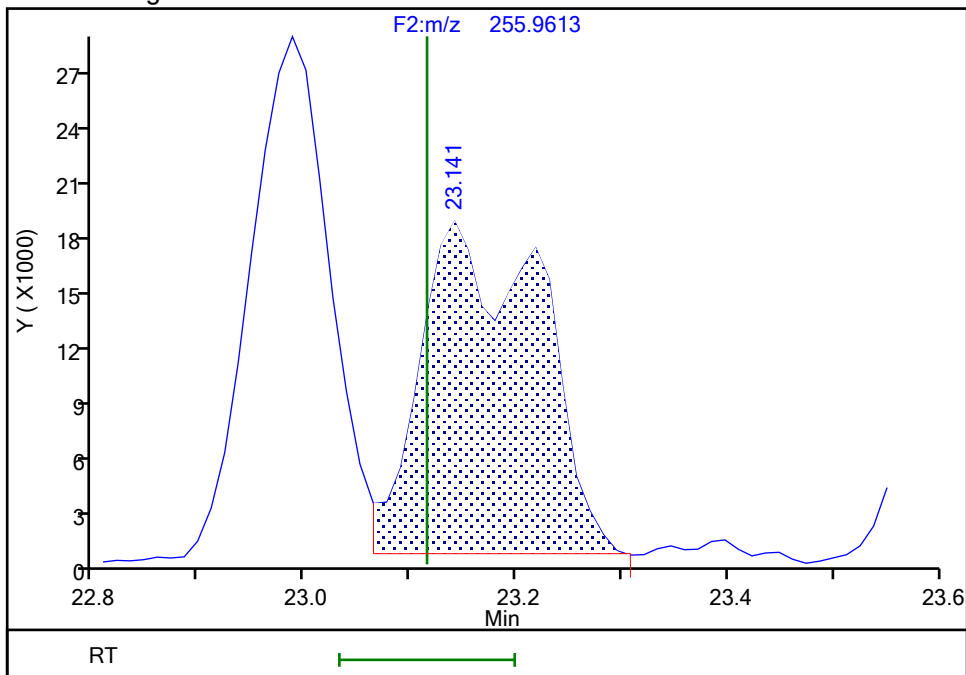
```
ALS Bottle#:      0          Worklist Smp#:      2
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F2(21.81 :35.54 )
```

Signal: 1

RT: 23.14
Area: 78248
Amount: 1.094563
Amount Units: pg/ul



RT: 23.14
Area: 142636
Amount: 1.979659
Amount Units: pg/ul



Audit Reason: Incomplete Integration

Eurofins Knoxville

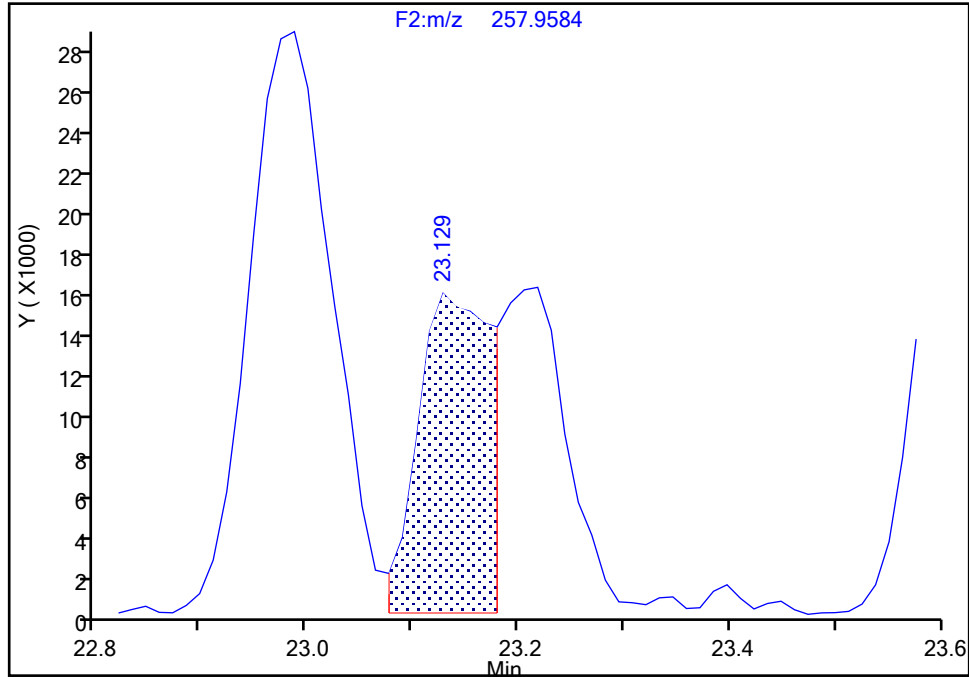
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

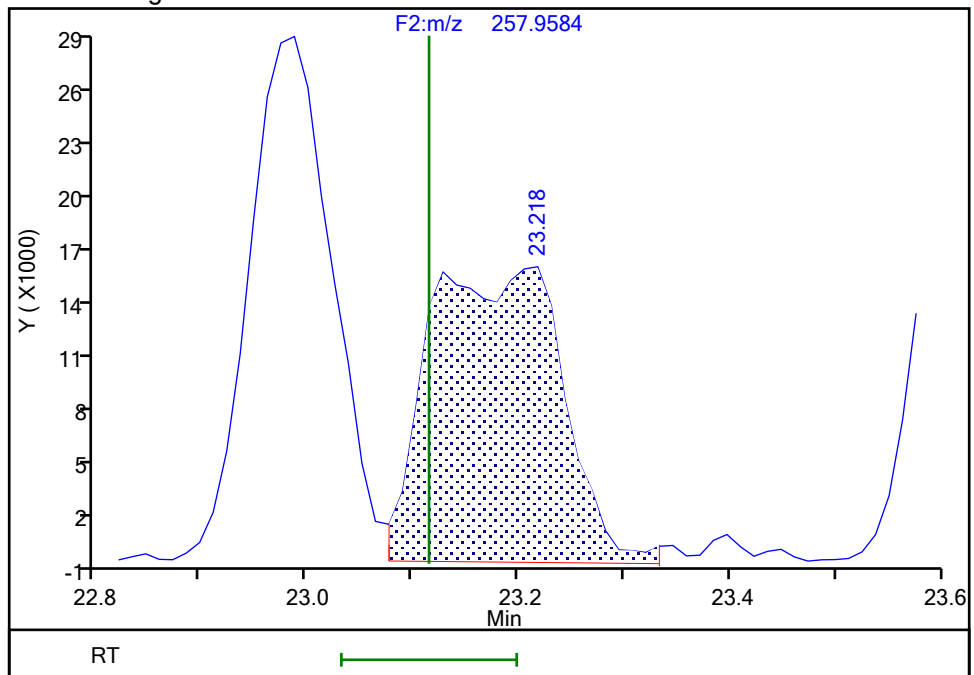
RT: 23.13
Area: 70581
Amount: 1.094563
Amount Units: pg/ul

Processing Integration Results



RT: 23.22
Area: 139356
Amount: 1.979659
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:02:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

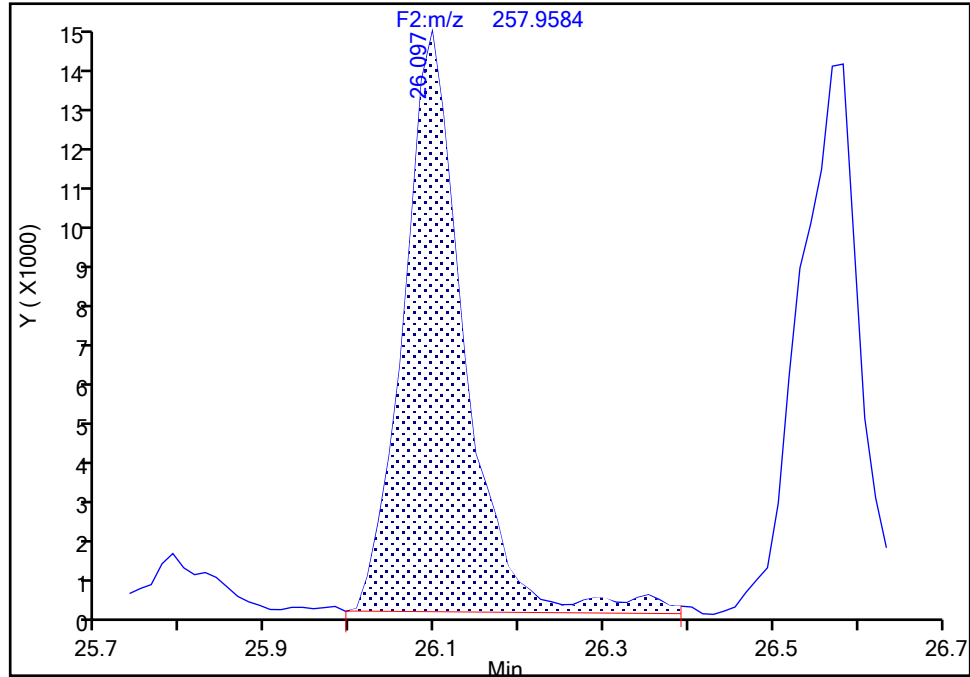
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-38, CAS: 53555-66-1

Signal: 2

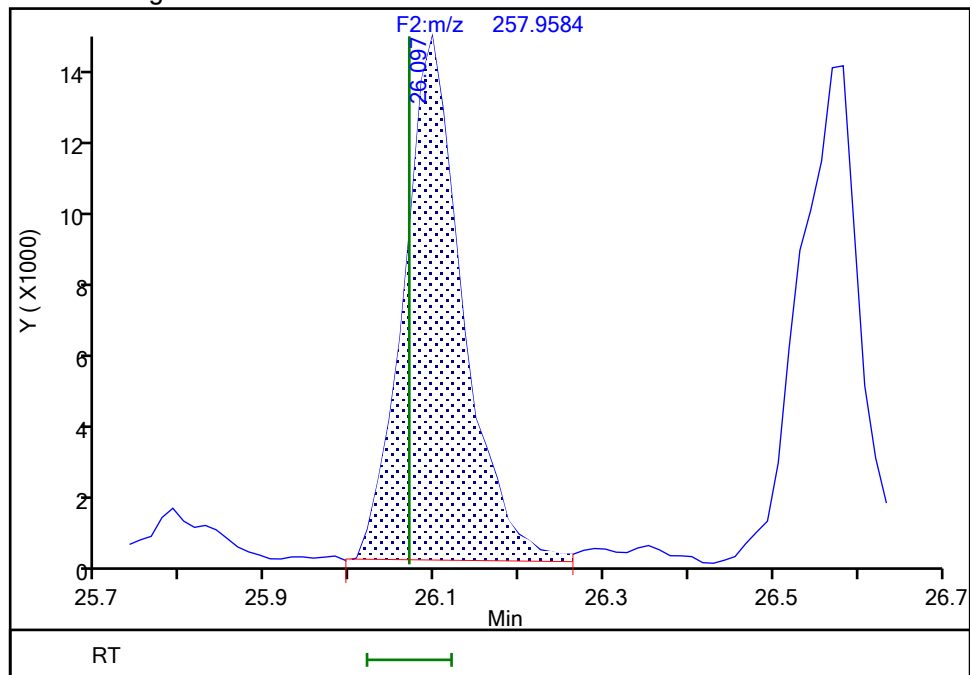
RT: 26.10
Area: 70957
Amount: 0.971249
Amount Units: pg/ul

Processing Integration Results



RT: 26.10
Area: 68696
Amount: 0.992448
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:34:39 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

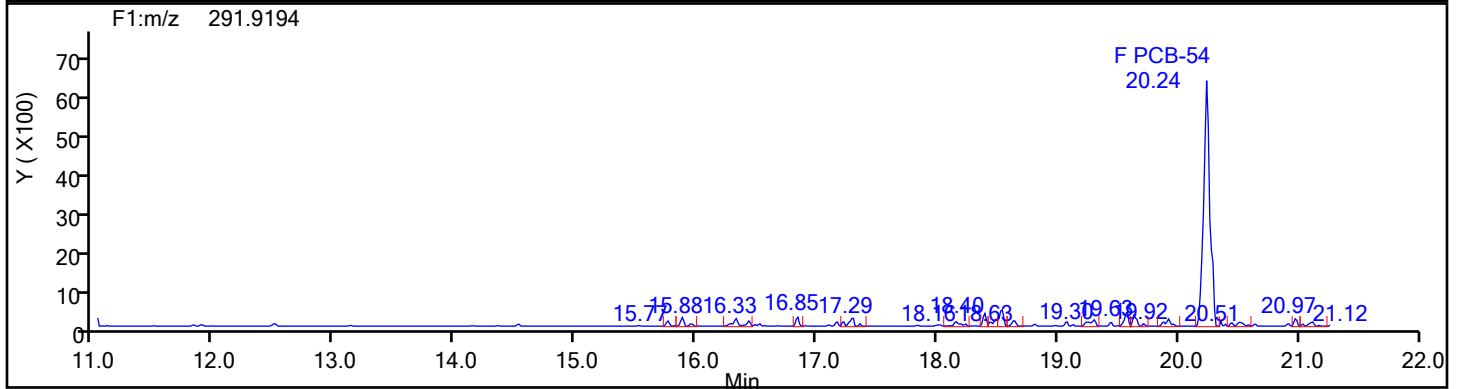
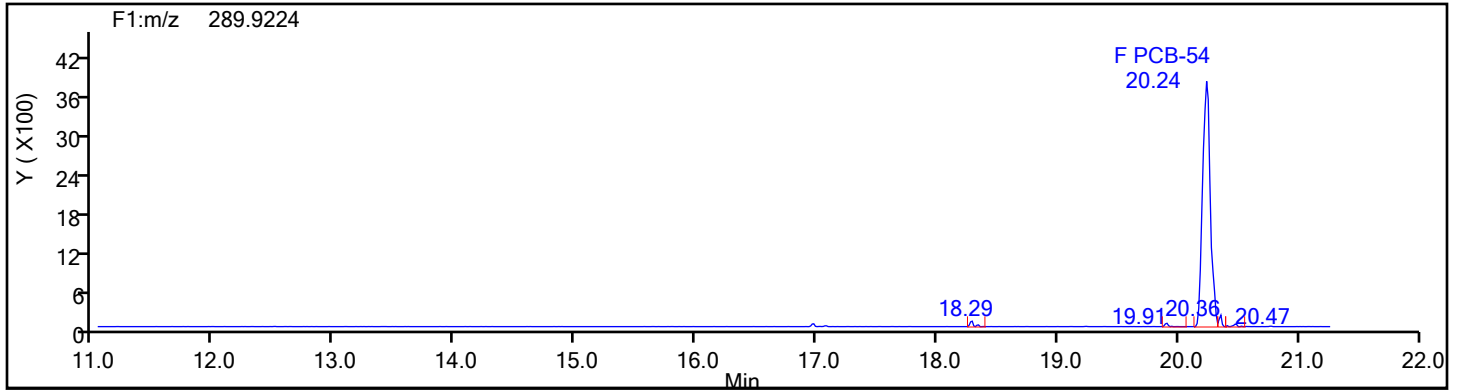
Worklist#: 87130

Sample Line#: 2

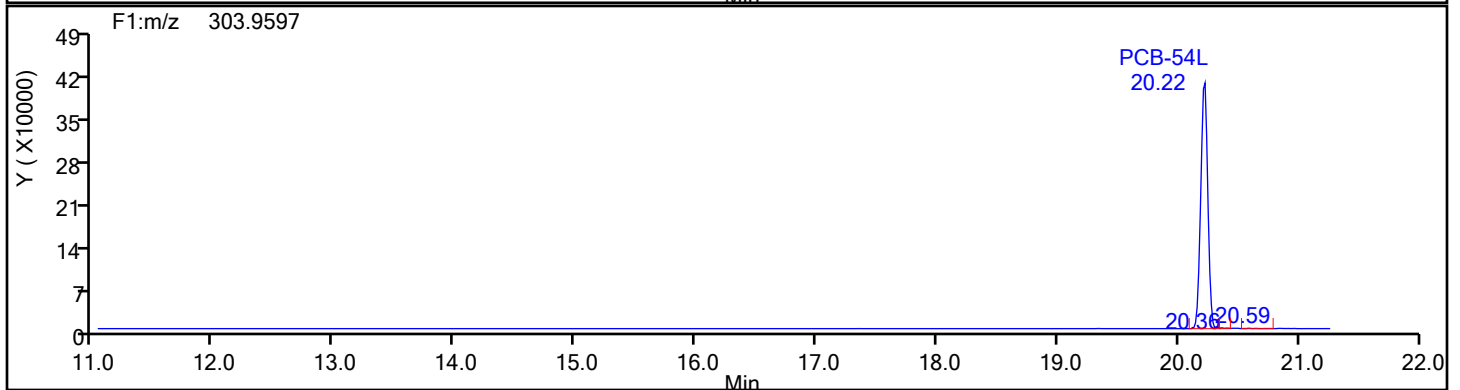
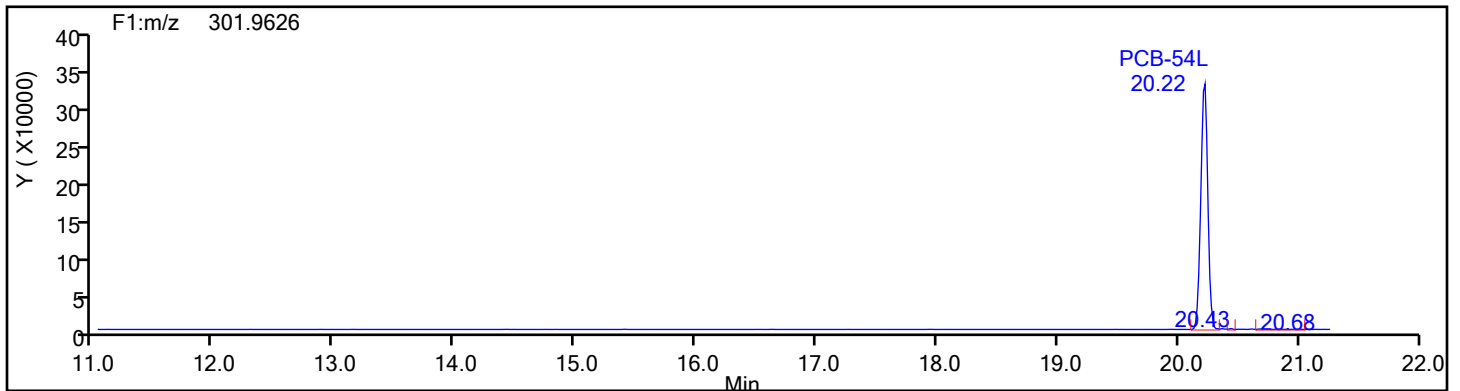
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

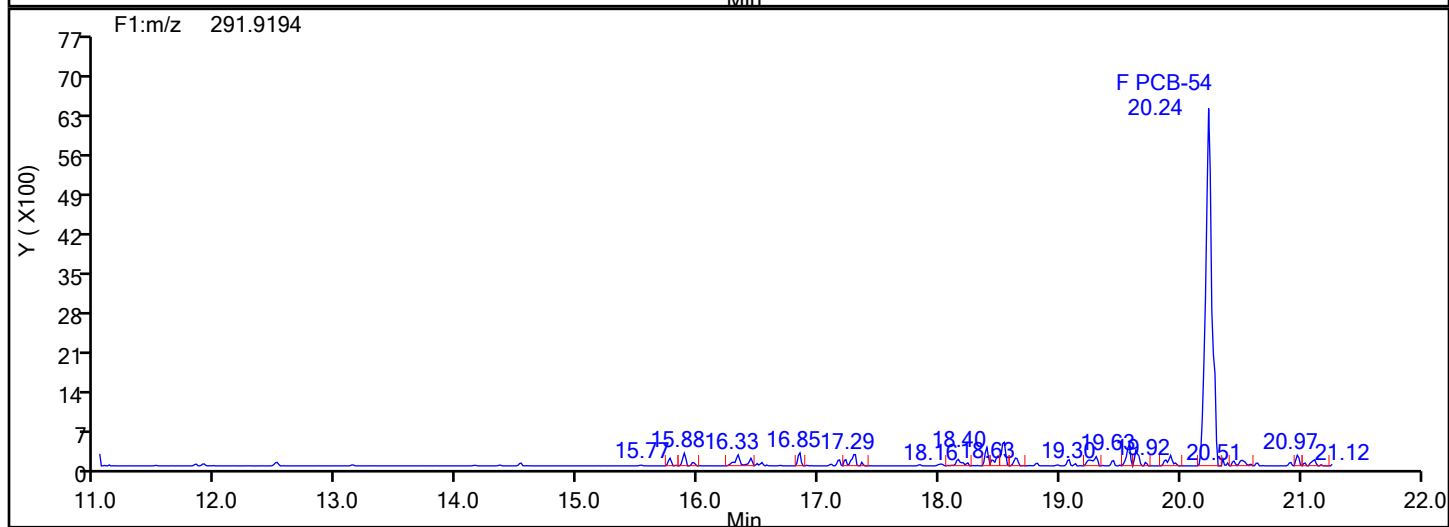
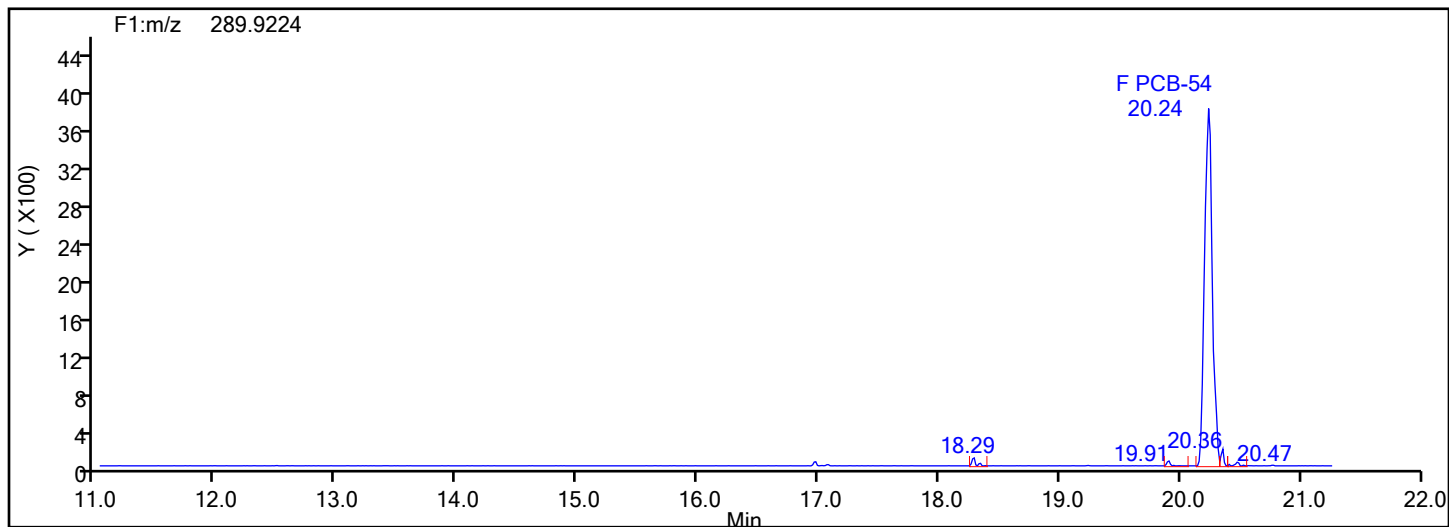
Worklist#: 87130

Sample Line#: 2

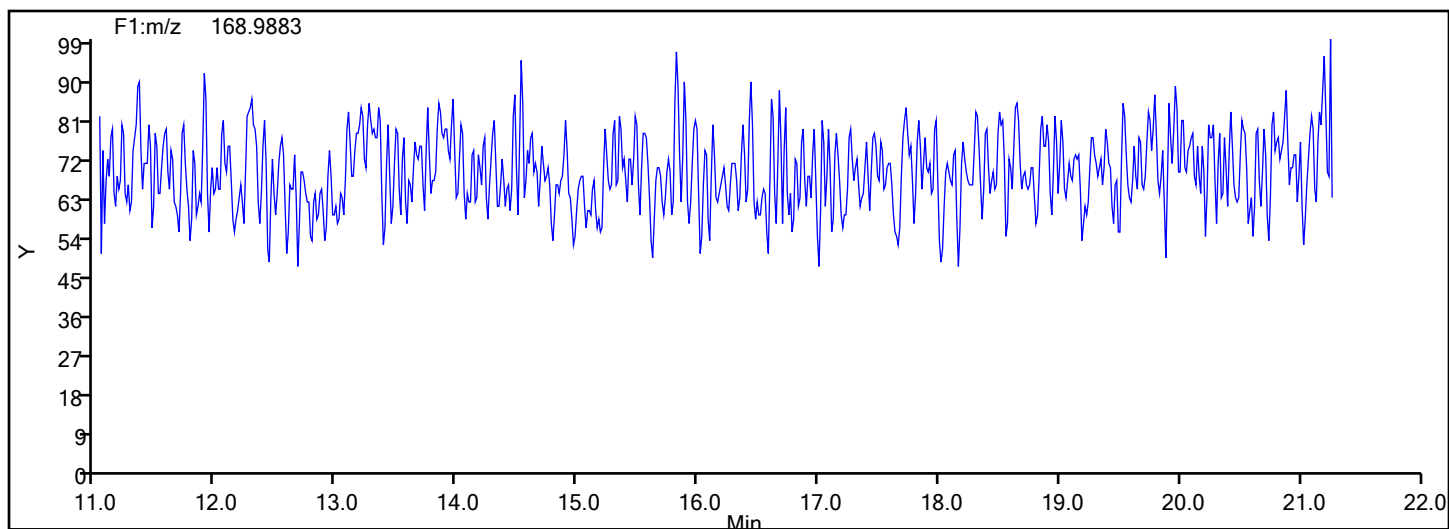
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

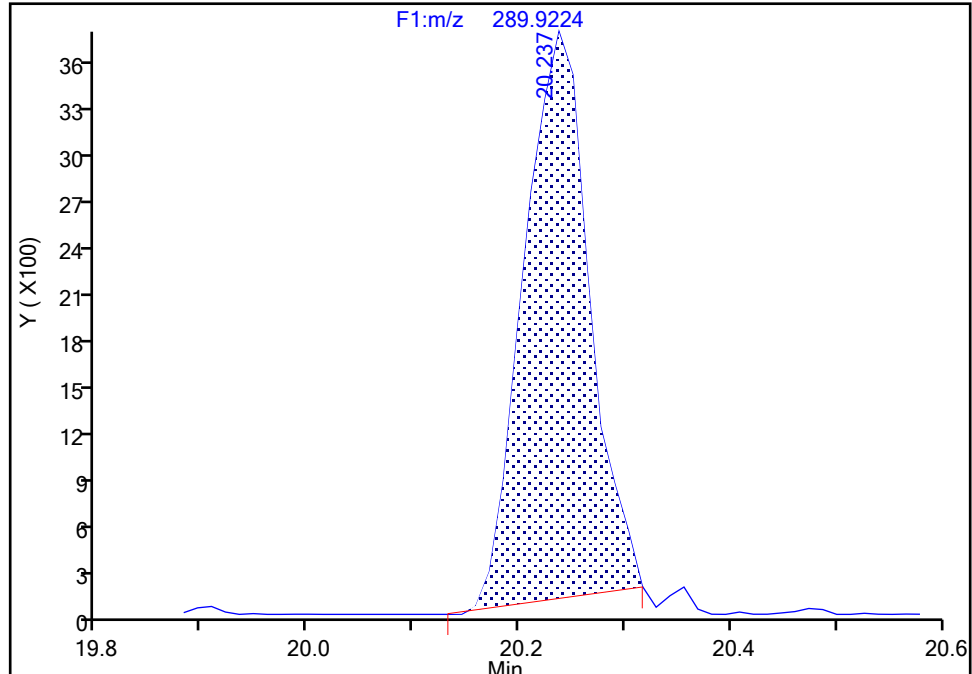
Detector F1(11.07 :21.70)

PCB-54, CAS: 15968-05-5

Signal: 1

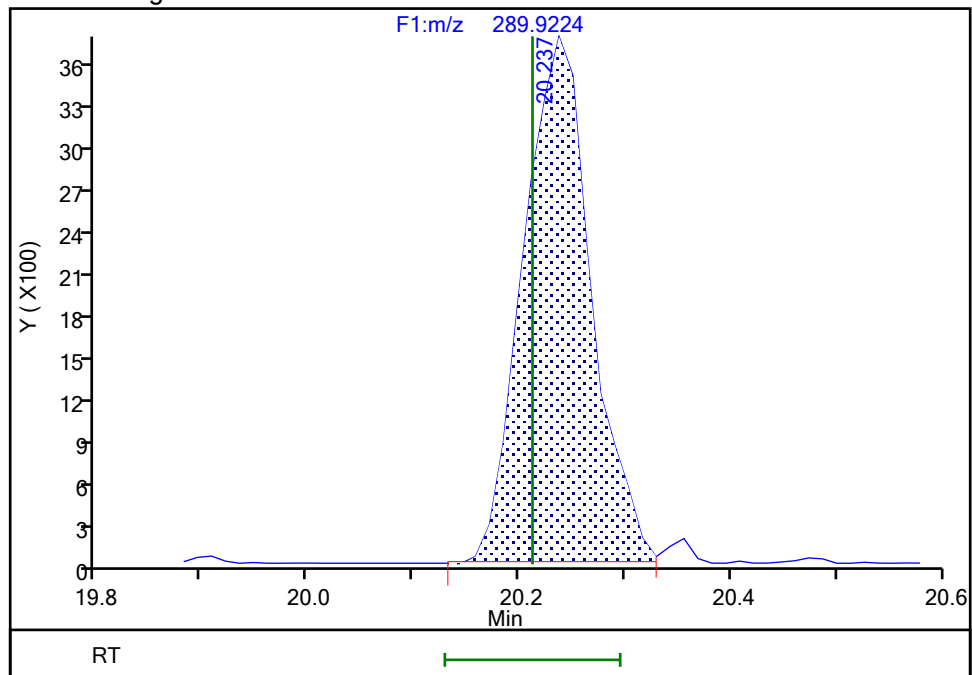
RT: 20.24
Area: 15732
Amount: 1.081870
Amount Units: pg/ul

Processing Integration Results



RT: 20.24
Area: 16803
Amount: 1.040564
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:57:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

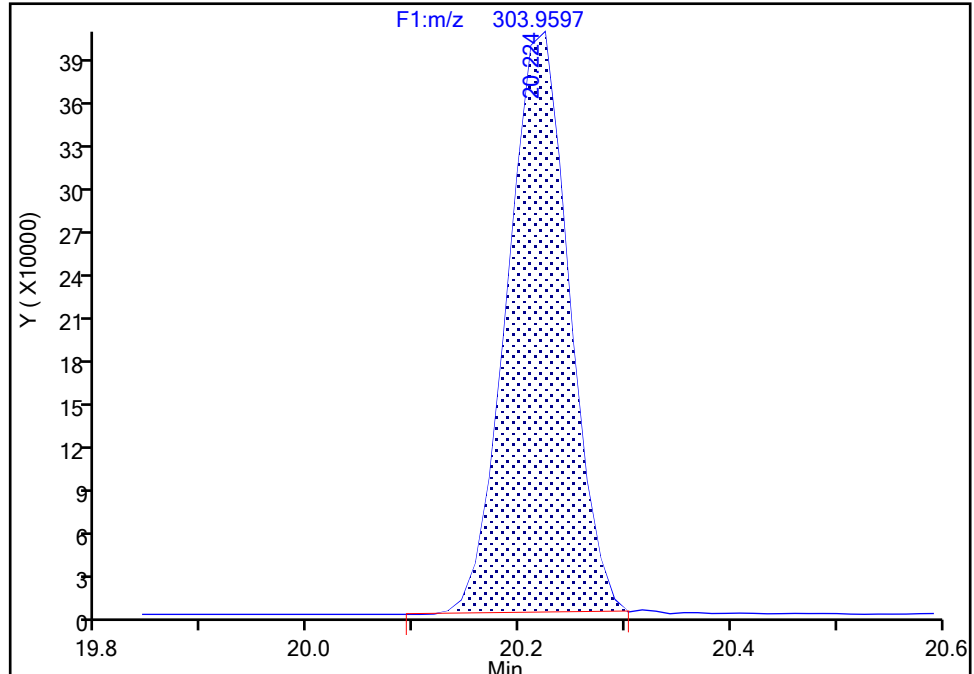
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 2

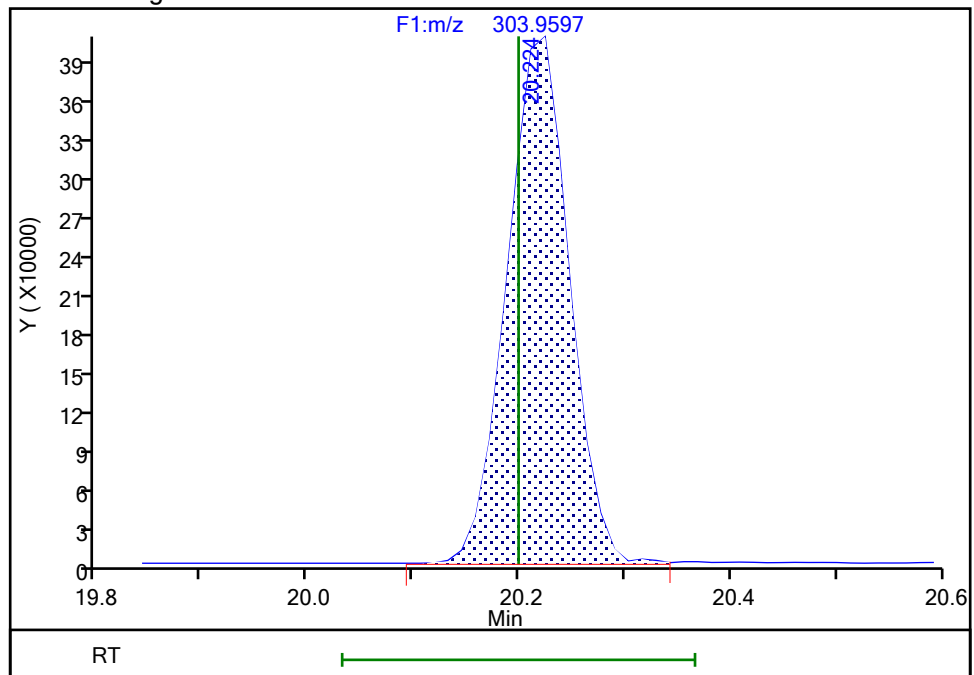
RT: 20.22
Area: 1651536
Amount: 94.488267
Amount Units: pg/ul

Processing Integration Results



RT: 20.22
Area: 1667087
Amount: 102.2191
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:35:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

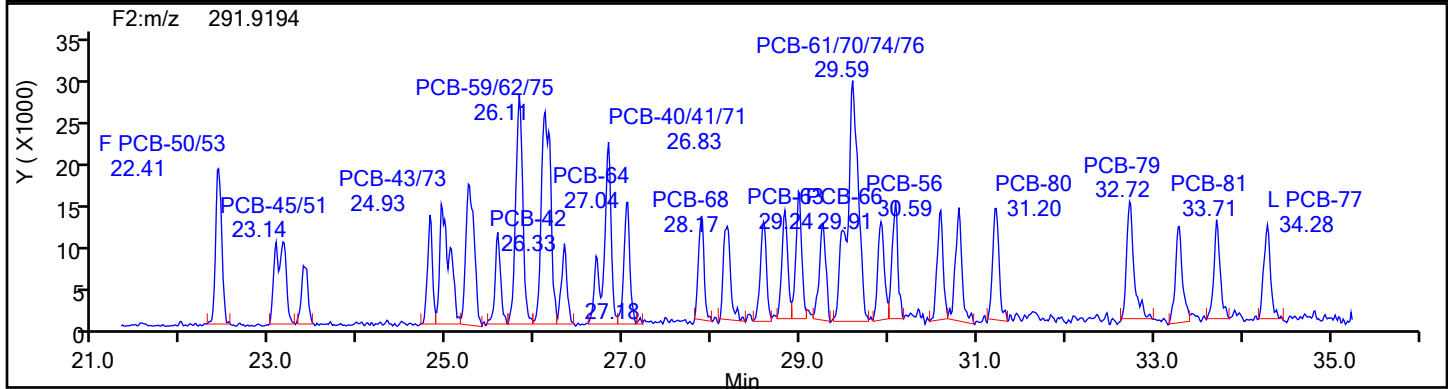
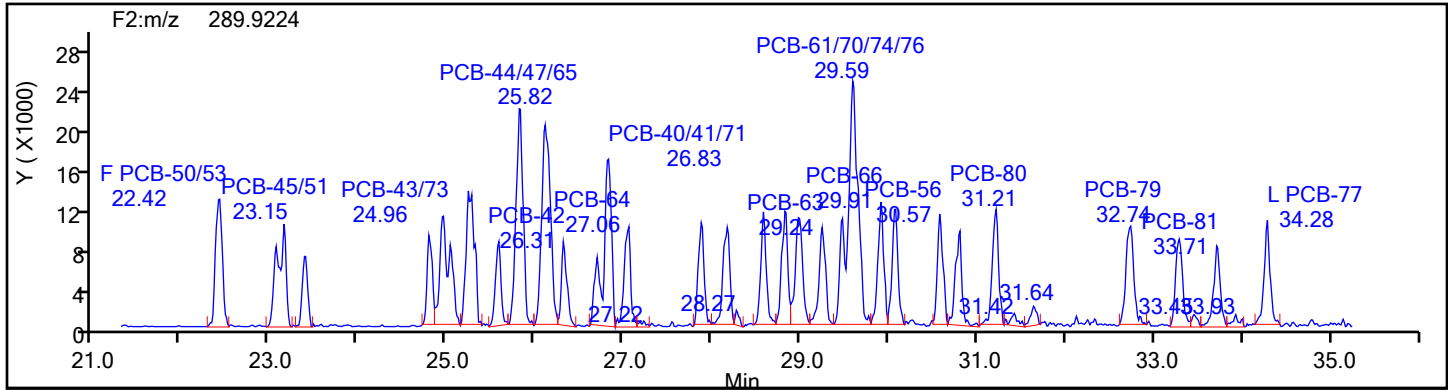
Worklist#: 87130

Sample Line#: 2

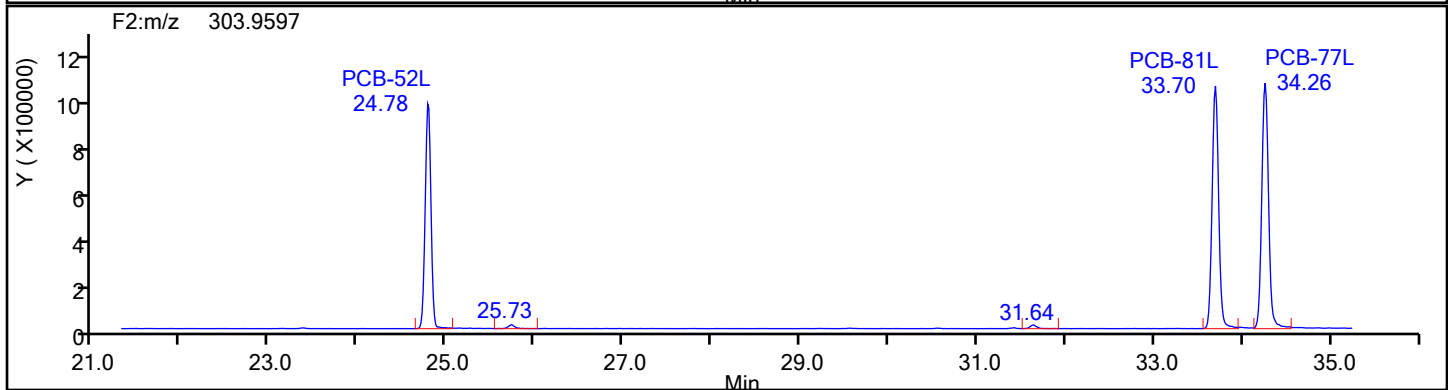
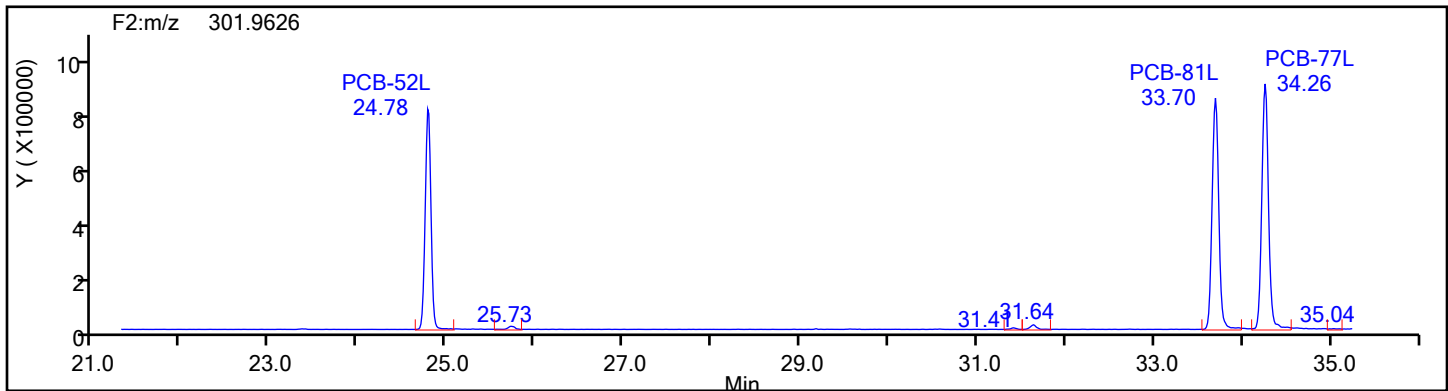
Column Type: SPB-Octyl

Column Dia: 0.25 mm

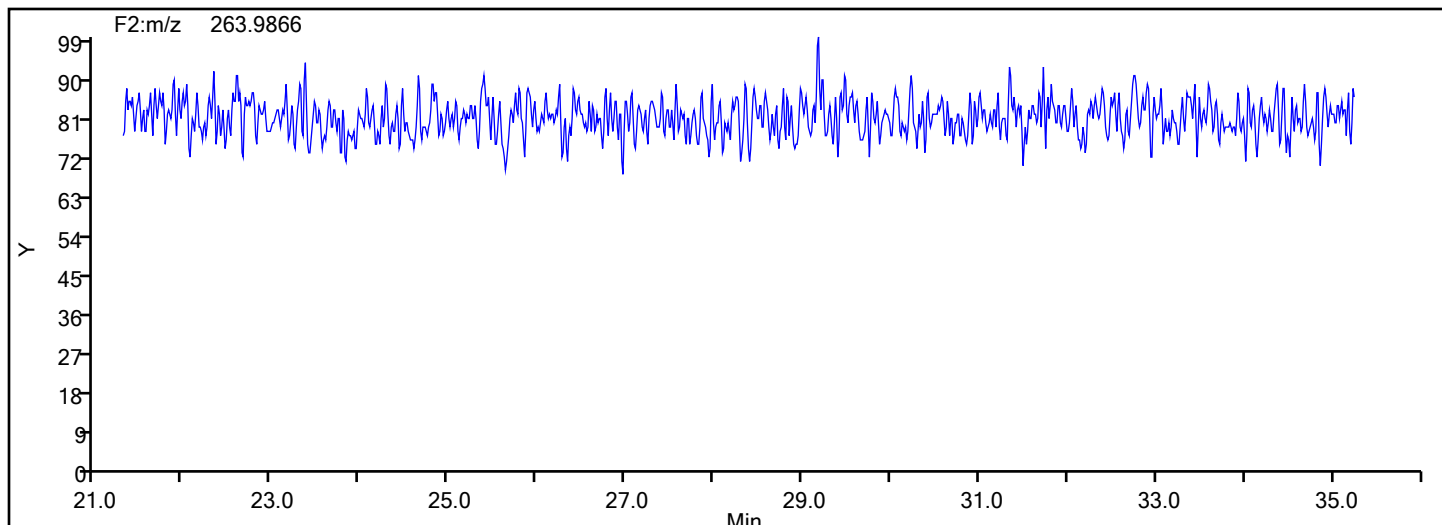
TePCB F2



TePCB F2 Standards



TePCB F2



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

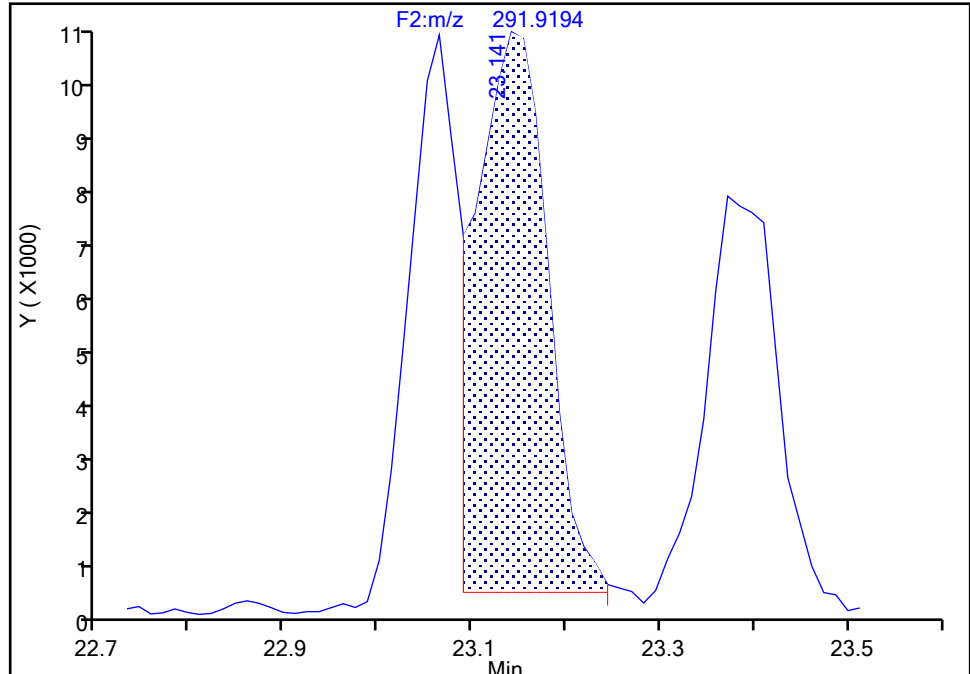
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

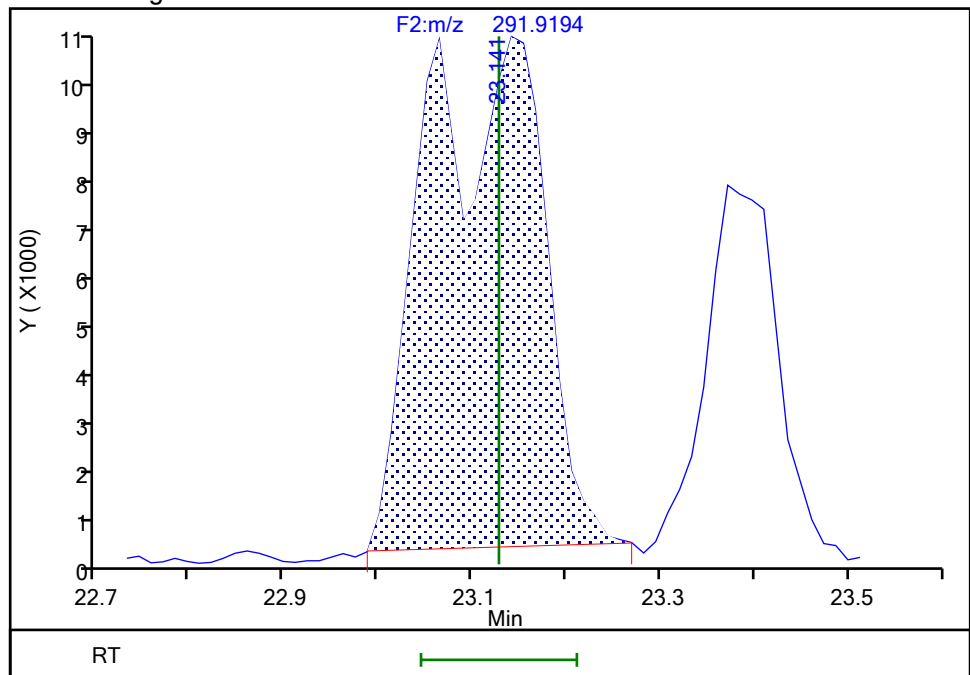
RT: 23.14
Area: 50830
Amount: 1.771882
Amount Units: pg/ul

Processing Integration Results



RT: 23.14
Area: 85307
Amount: 1.974472
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:02:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

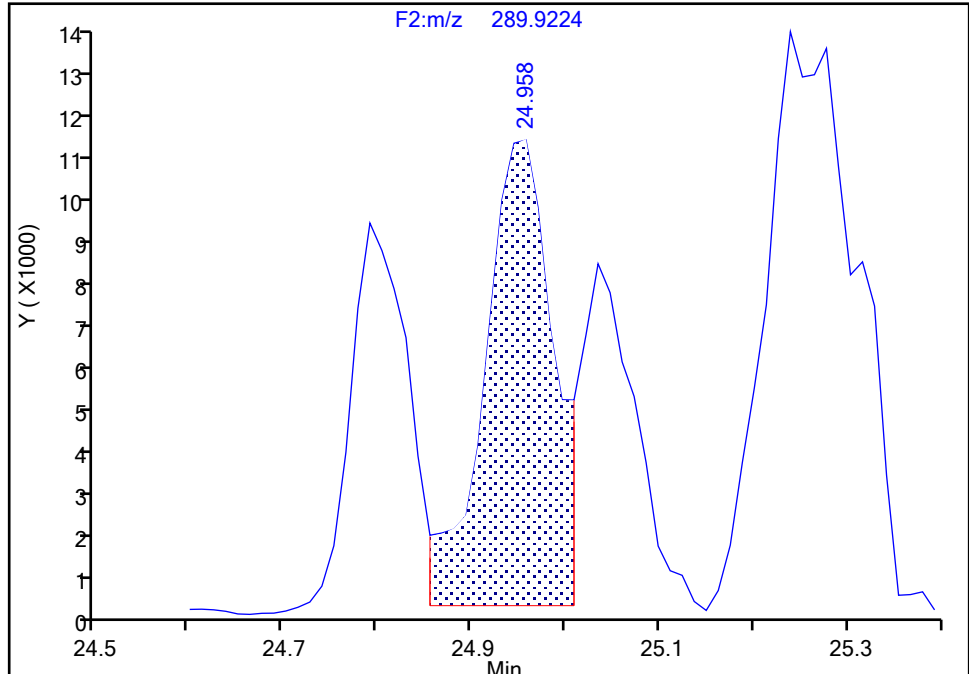
Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

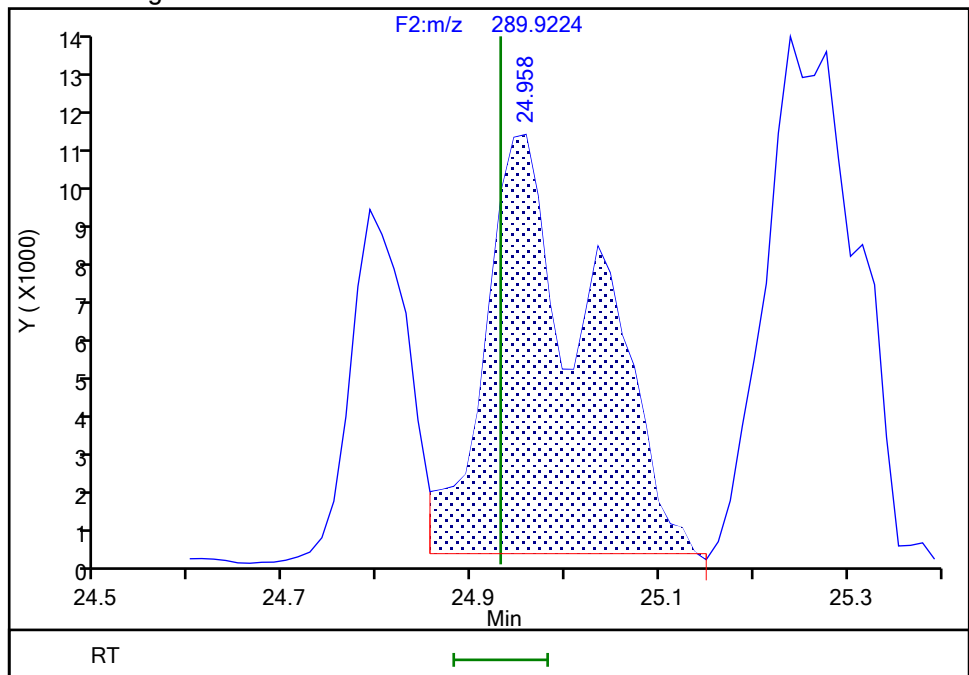
RT: 24.96
Area: 54766
Amount: 1.474080
Amount Units: pg/ul

Processing Integration Results



RT: 24.96
Area: 85780
Amount: 2.004763
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:03:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

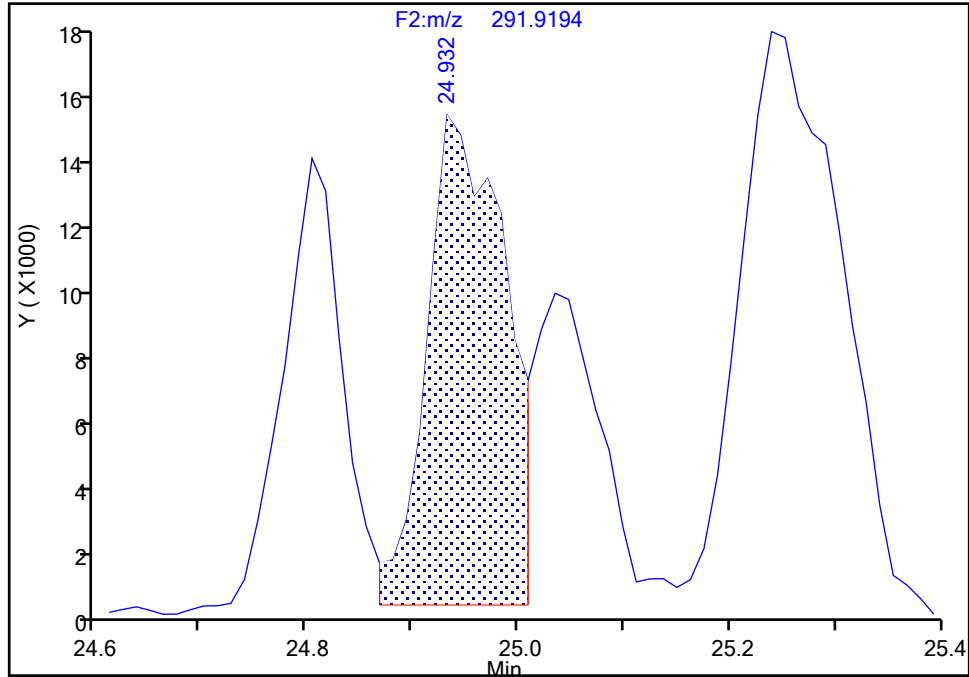
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

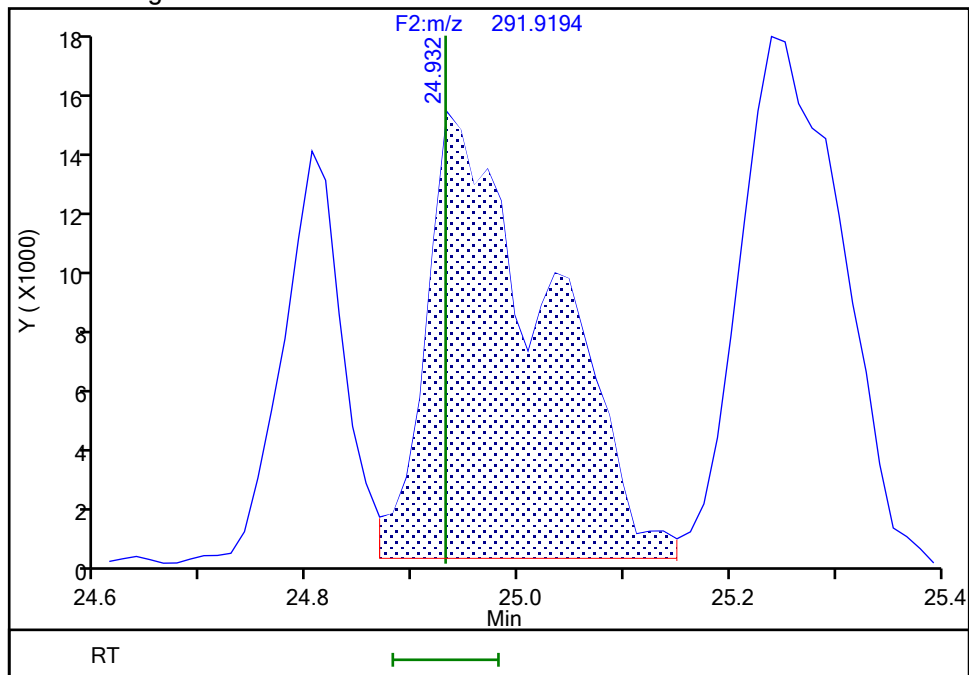
RT: 24.93
Area: 73369
Amount: 1.474080
Amount Units: pg/ul

Processing Integration Results



RT: 24.93
Area: 114448
Amount: 2.004763
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:03:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

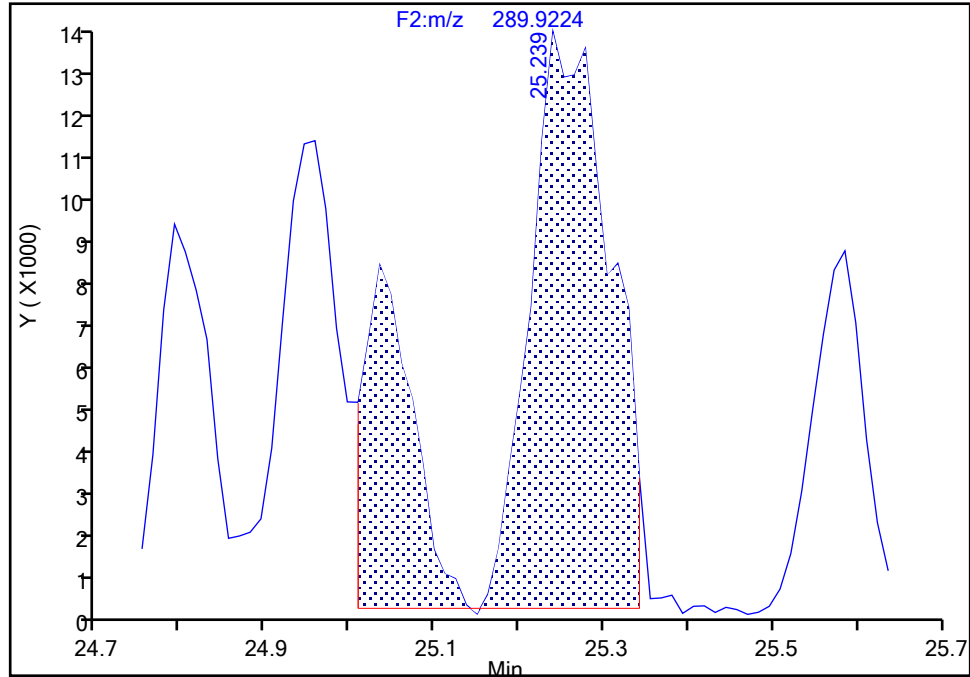
Detector F2(21.81 :35.54)

PCB-49/69, CAS: STL01805

Signal: 1

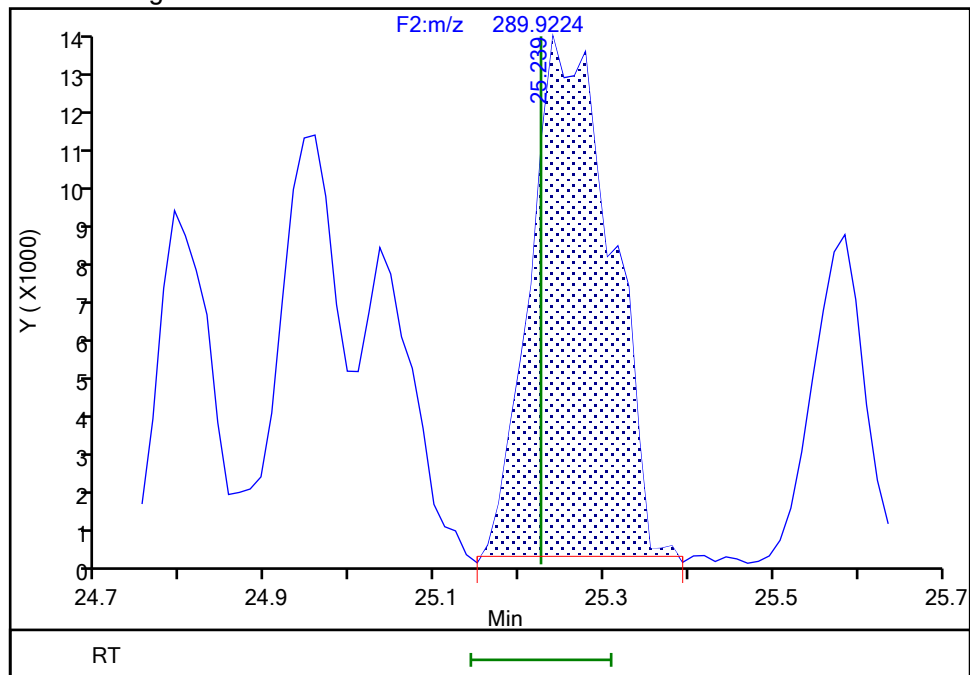
RT: 25.24
Area: 119546
Amount: 2.414363
Amount Units: pg/ul

Processing Integration Results



RT: 25.24
Area: 88756
Amount: 1.954885
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:03:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

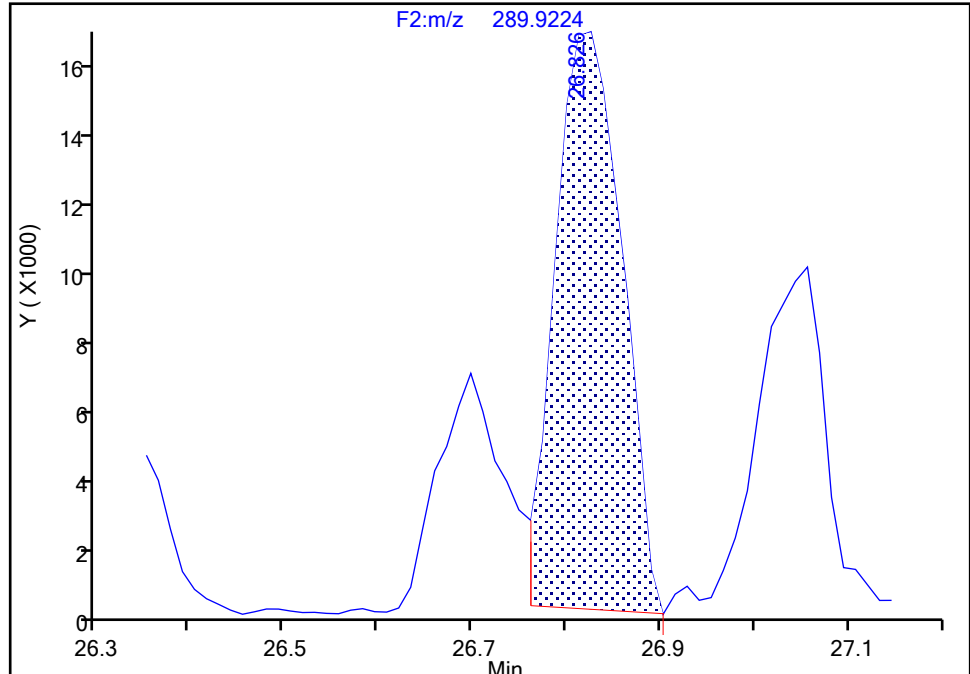
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

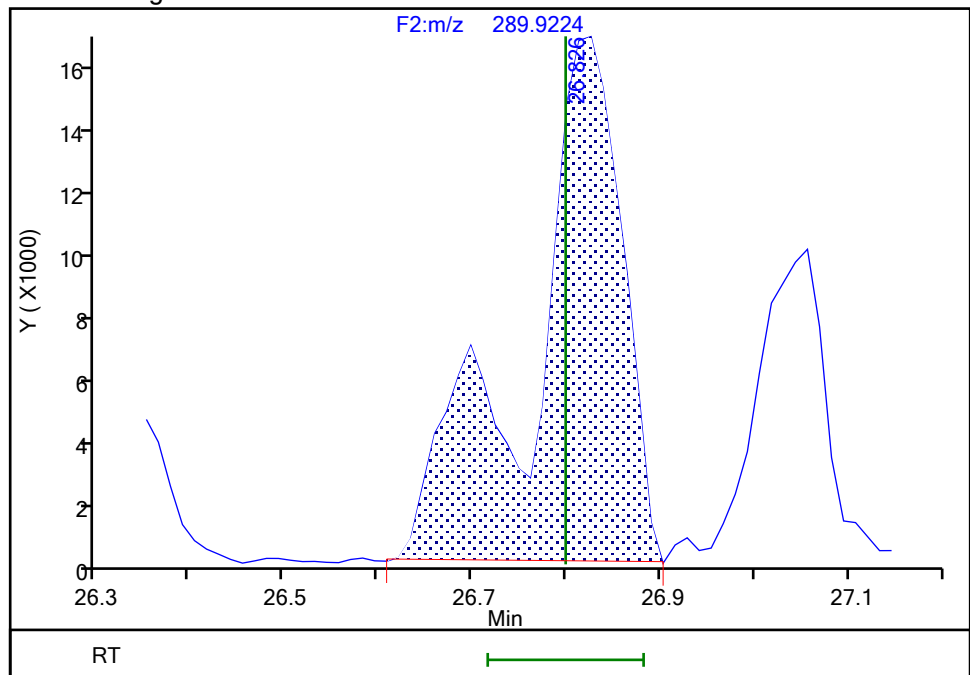
RT: 26.83
Area: 82680
Amount: 2.861341
Amount Units: pg/ul

Processing Integration Results



RT: 26.83
Area: 116094
Amount: 2.948431
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:03:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

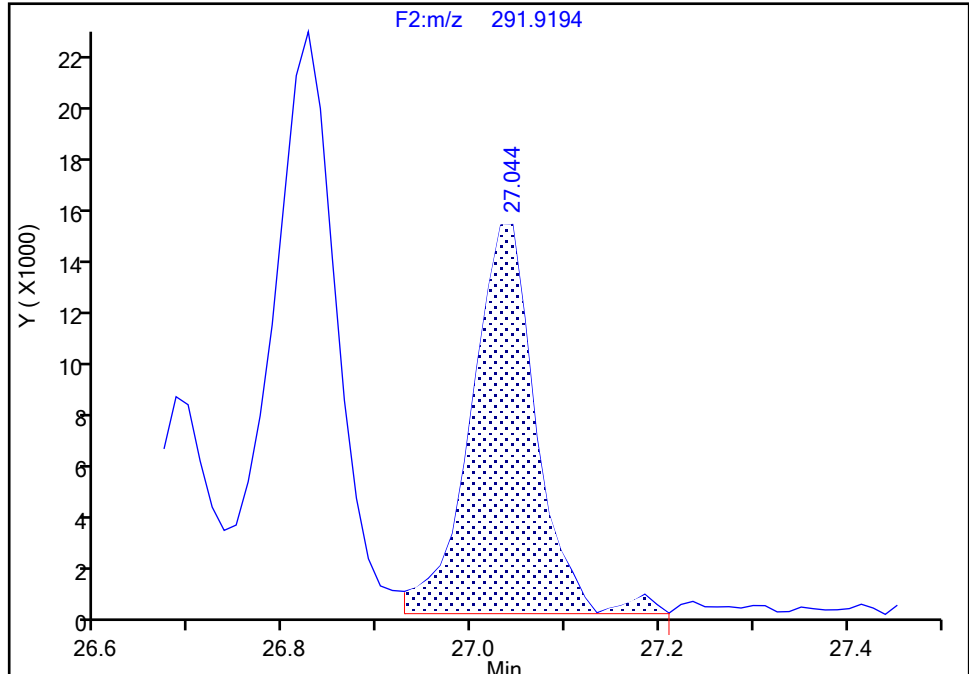
Detector F2(21.81 :35.54)

PCB-64, CAS: 52663-58-8

Signal: 2

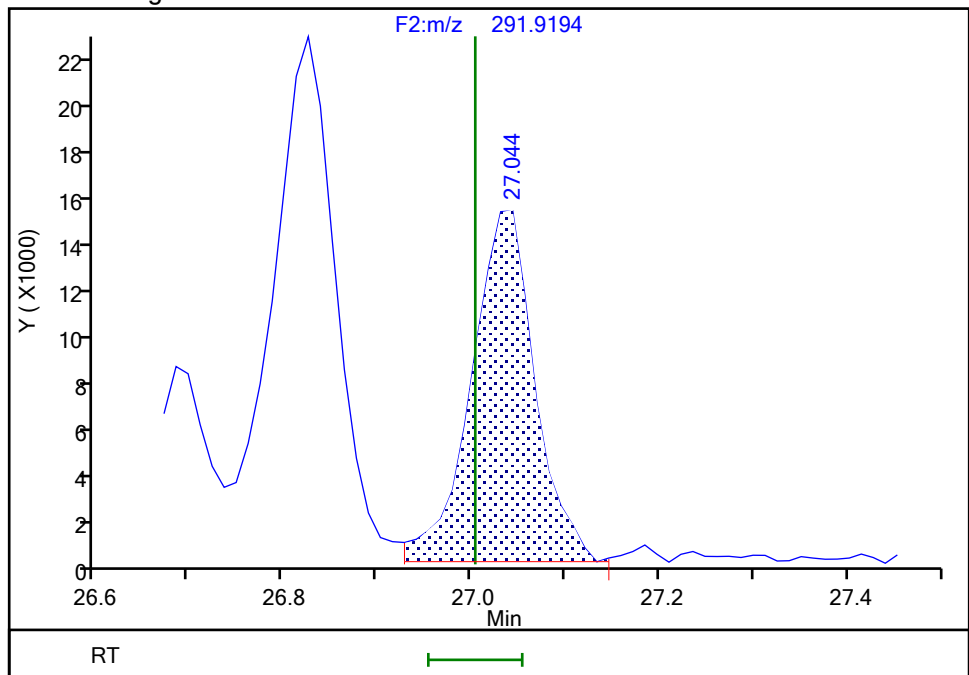
RT: 27.04
Area: 71055
Amount: 1.108123
Amount Units: pg/ul

Processing Integration Results



RT: 27.04
Area: 69628
Amount: 1.065987
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:35:38 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

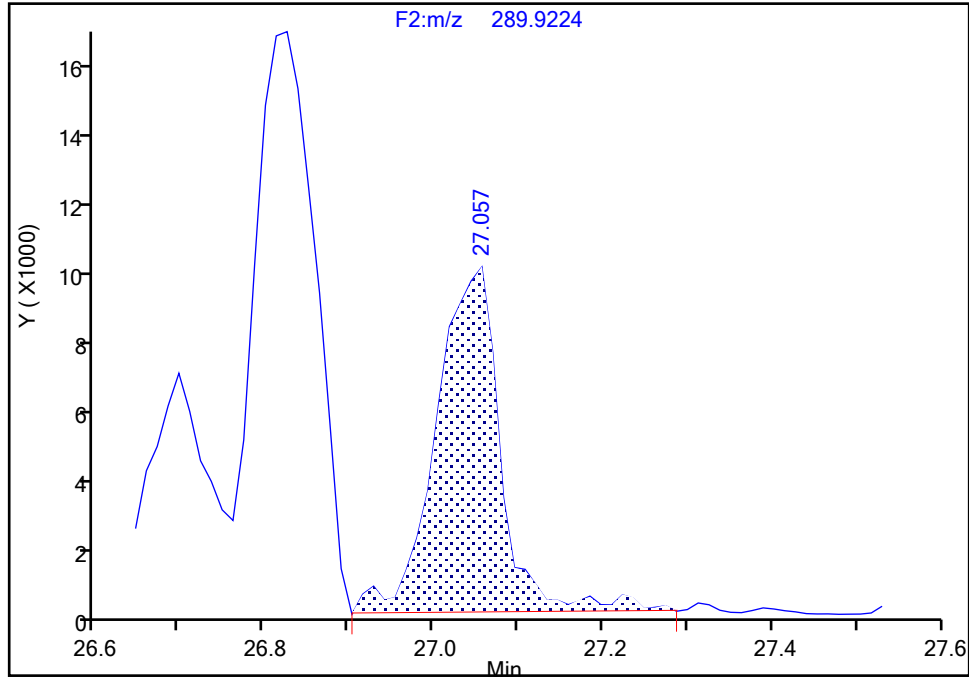
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-64, CAS: 52663-58-8

Signal: 1

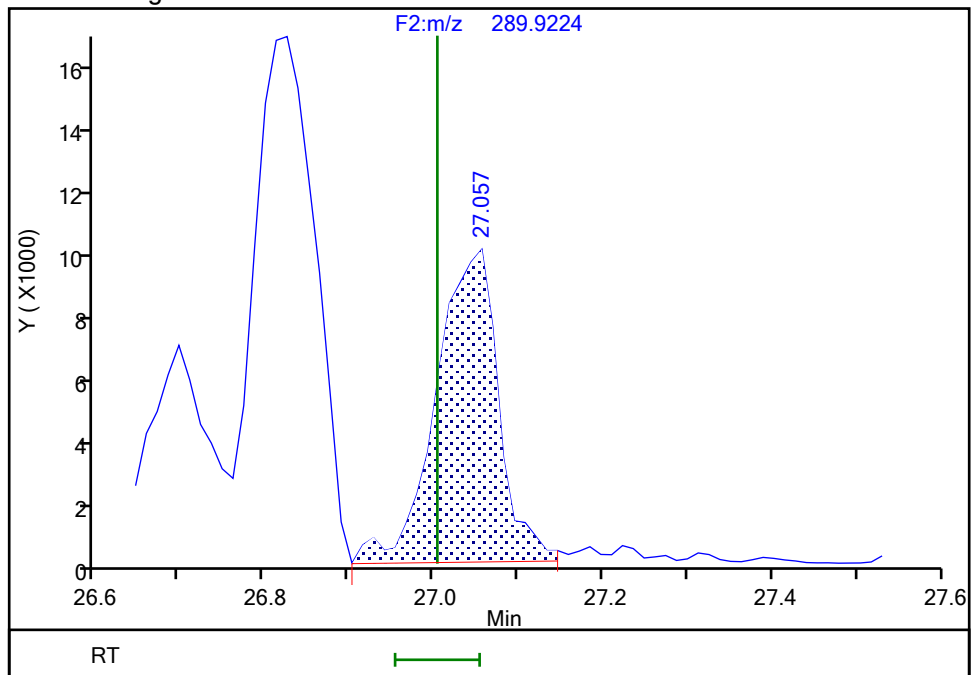
RT: 27.06
Area: 53878
Amount: 1.108123
Amount Units: pg/ul

Processing Integration Results



RT: 27.06
Area: 51698
Amount: 1.065987
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:35:41 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

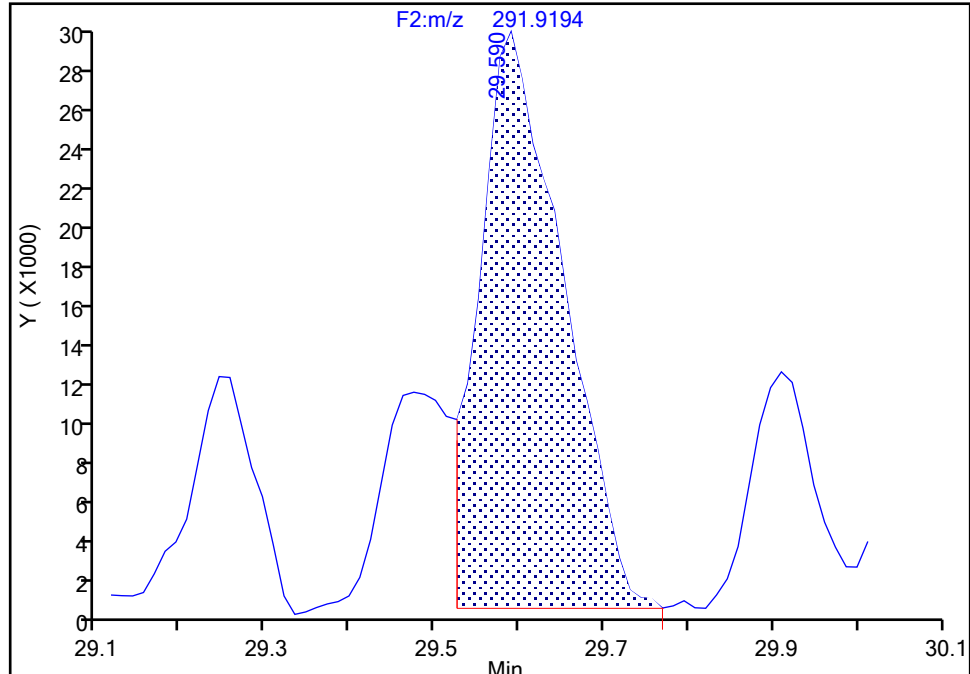
F2(21.81 :35.54)

PCB-61/70/74/76, CAS: STL01808

Signal: 2

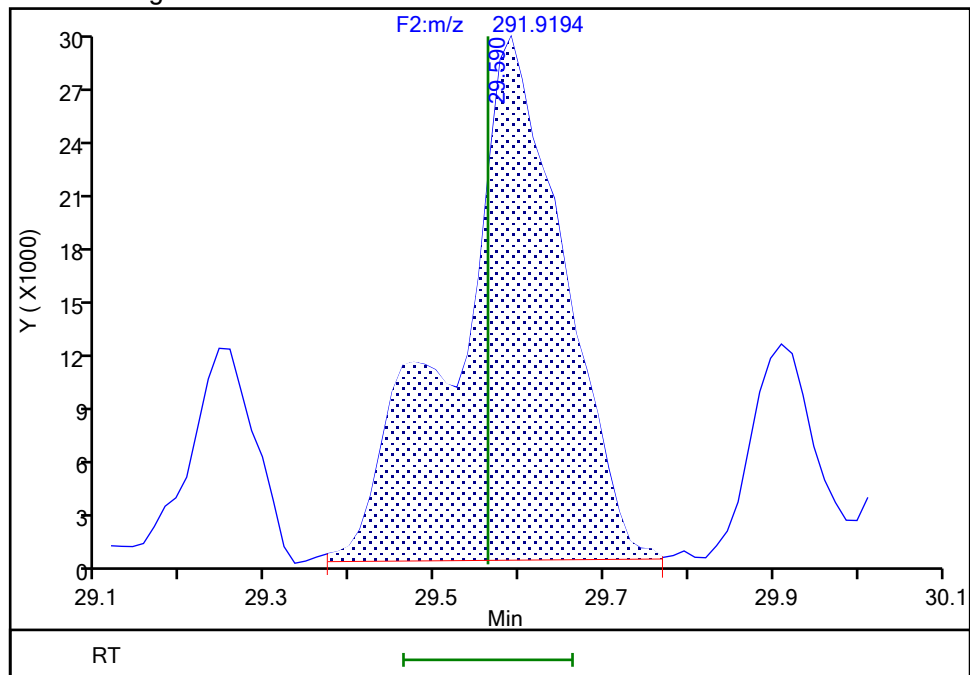
RT: 29.59
Area: 198737
Amount: 3.693416
Amount Units: pg/ul

Processing Integration Results



RT: 29.59
Area: 261662
Amount: 3.875831
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:04:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

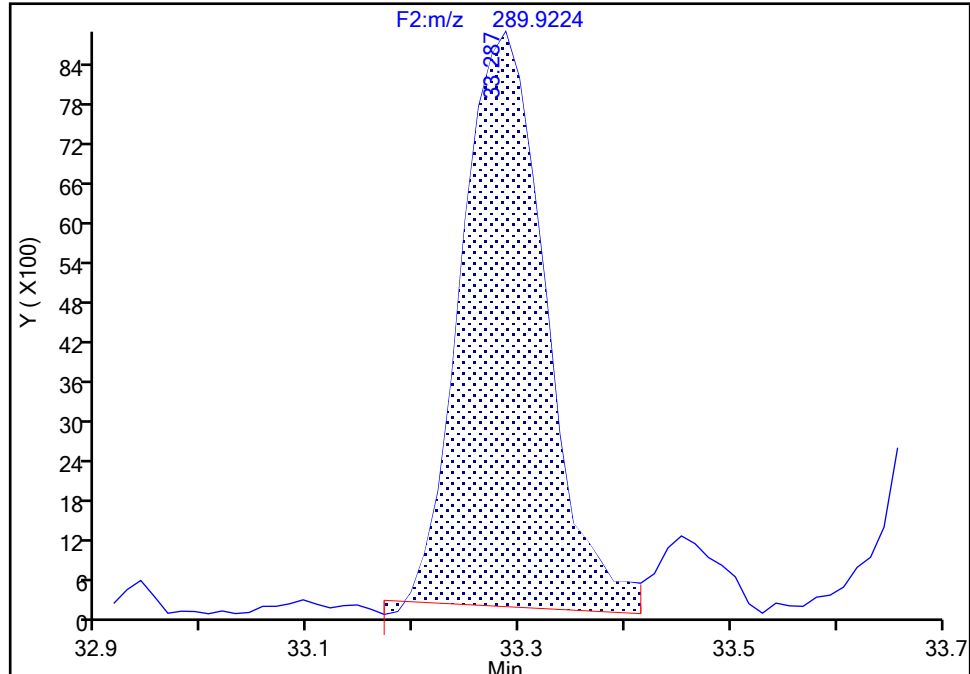
Detector F2(21.81 :35.54)

PCB-78, CAS: 70362-49-1

Signal: 1

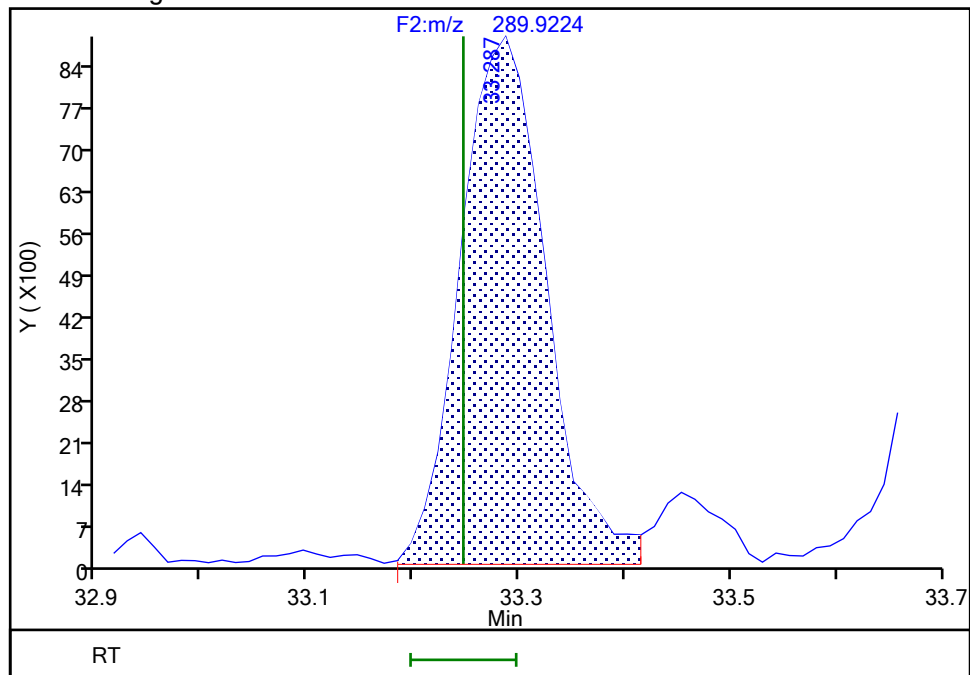
RT: 33.29
Area: 47957
Amount: 0.938957
Amount Units: pg/ul

Processing Integration Results



RT: 33.29
Area: 49349
Amount: 1.029788
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:36:14 -04:00:00 (UTC)

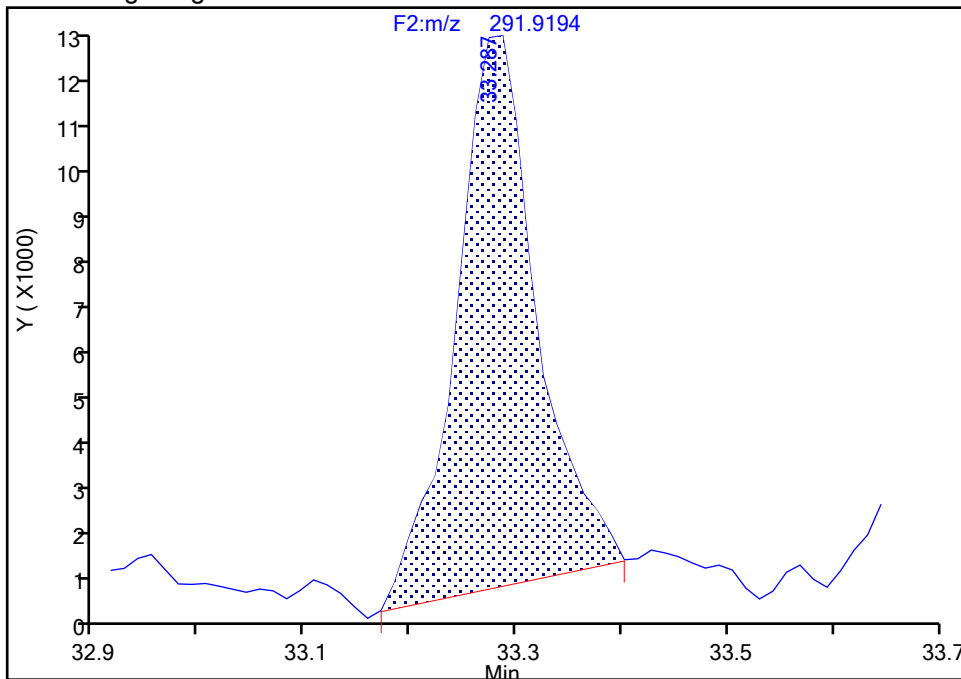
Audit Action: Manually Integrated

Audit Reason: Baseline

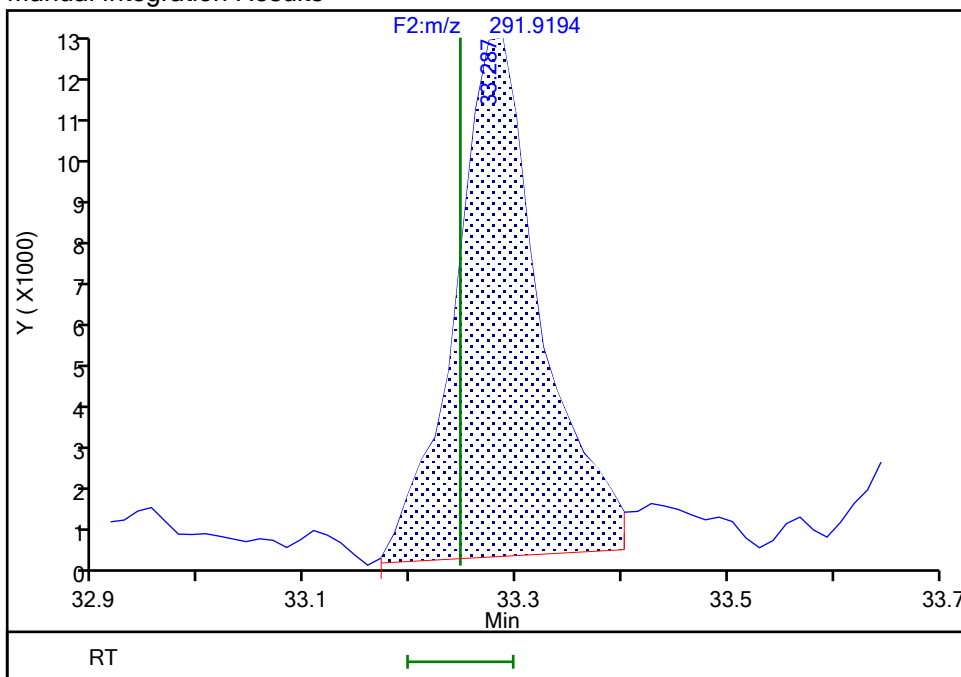
Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d				
Injection Date:	31-May-2024 16:53:00	Instrument ID:	D2D		
Lims ID:	IC L2				
Client ID:					
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl (0.25 mm)	Detector	F2(21.81 :35.54)		

Signal: 2

RT: 33.29
Area: 59884
Amount: 0.938957
Amount Units: pg/ul



RT: 33.29
Area: 66291
Amount: 1.029788
Amount Units: pg/ul



Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

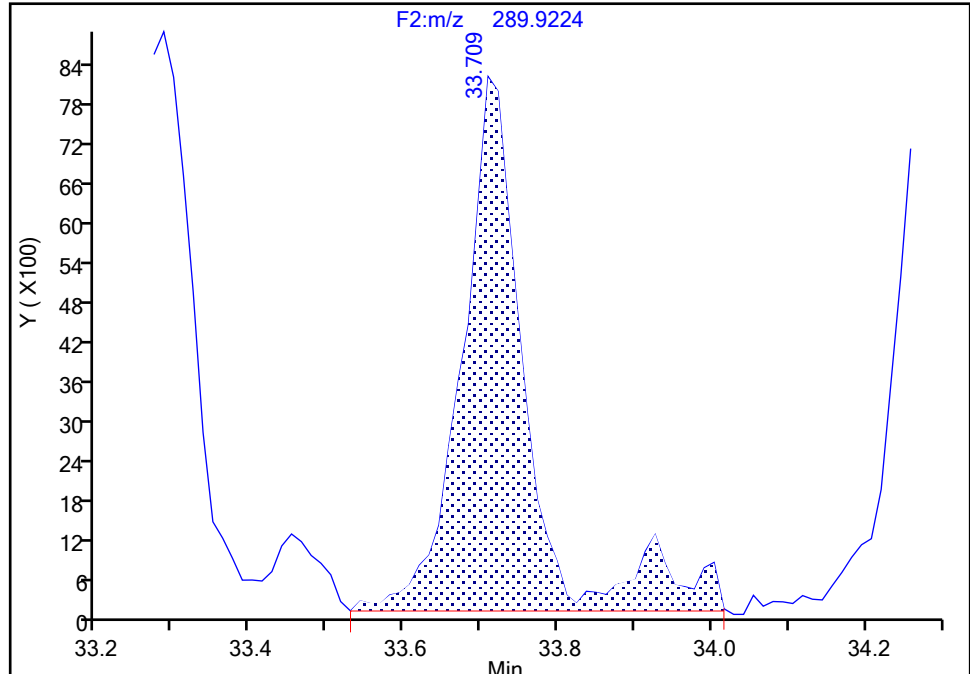
Detector F2(21.81 :35.54)

PCB-81, CAS: 70362-50-4

Signal: 1

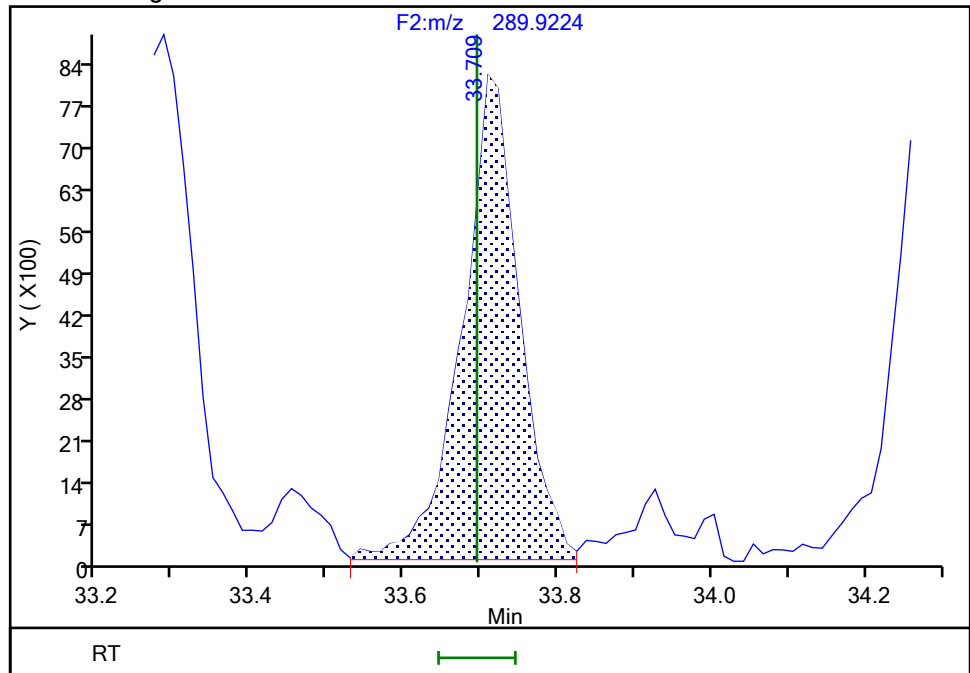
RT: 33.71
Area: 47878
Amount: 1.089091
Amount Units: pg/ul

Processing Integration Results



RT: 33.71
Area: 41953
Amount: 1.014645
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:35:15 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

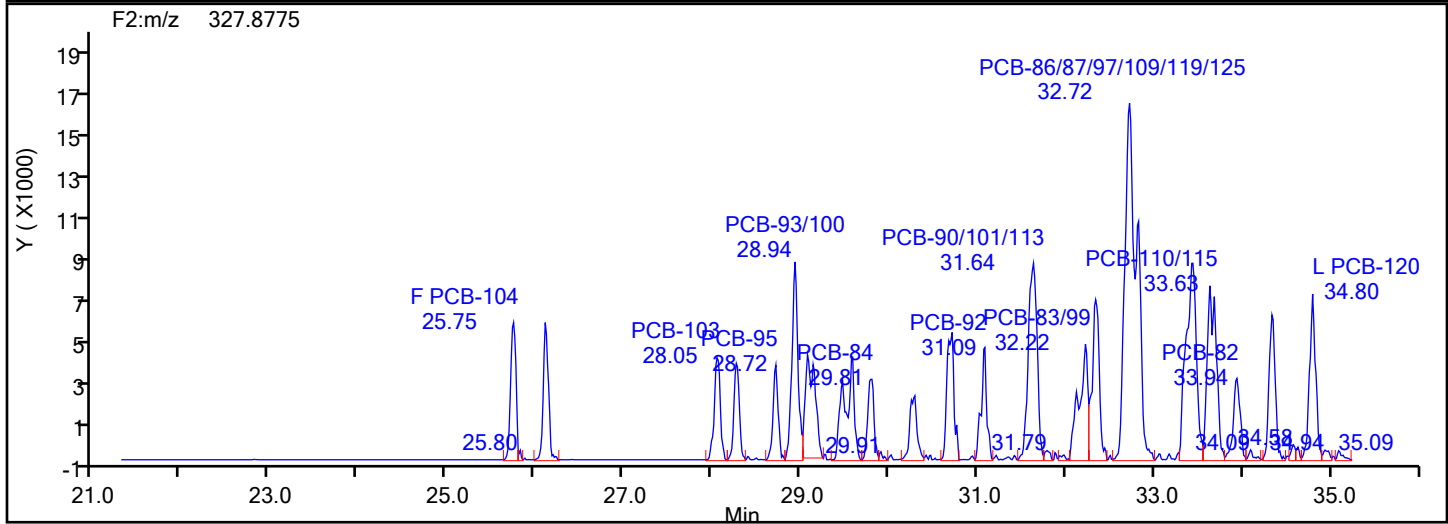
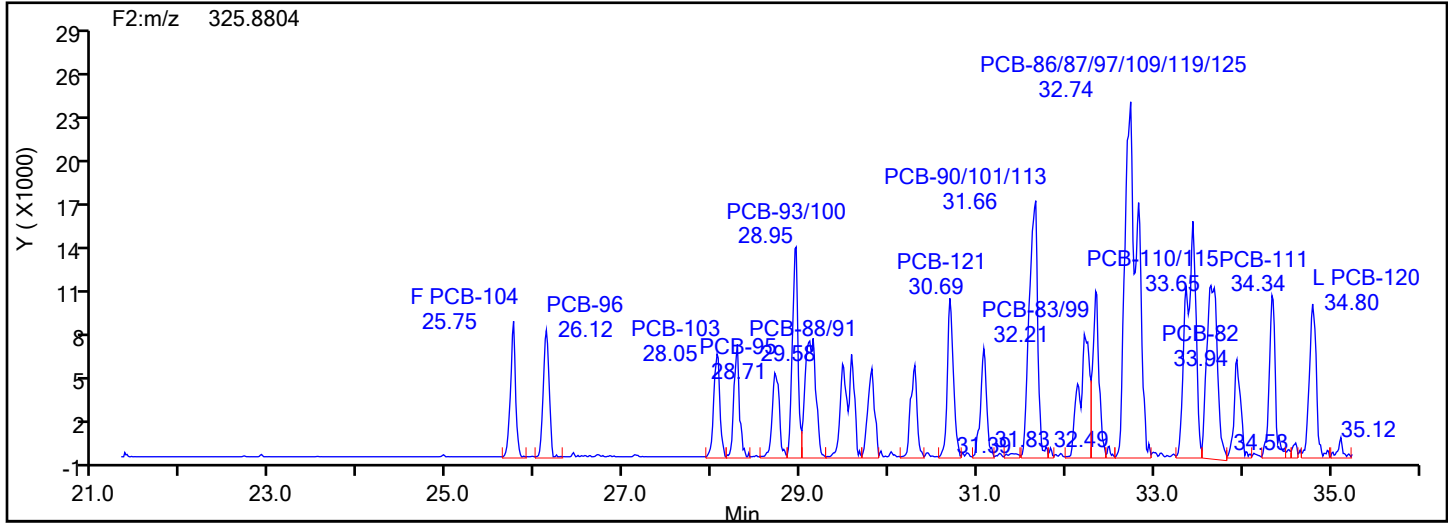
Worklist#: 87130

Sample Line#: 2

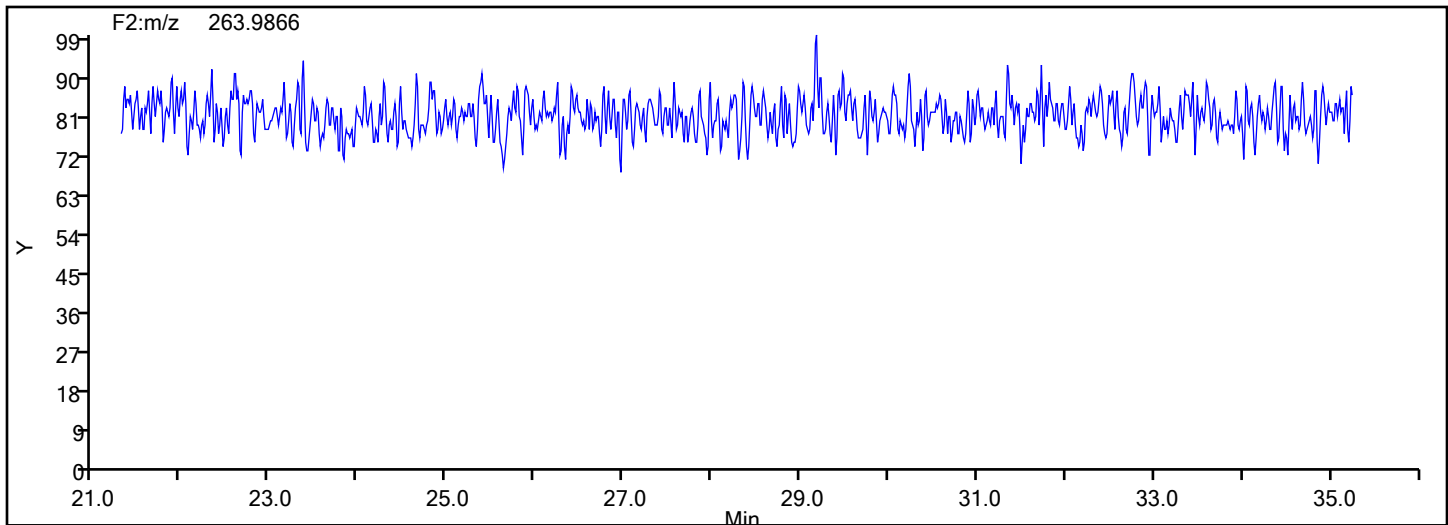
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass

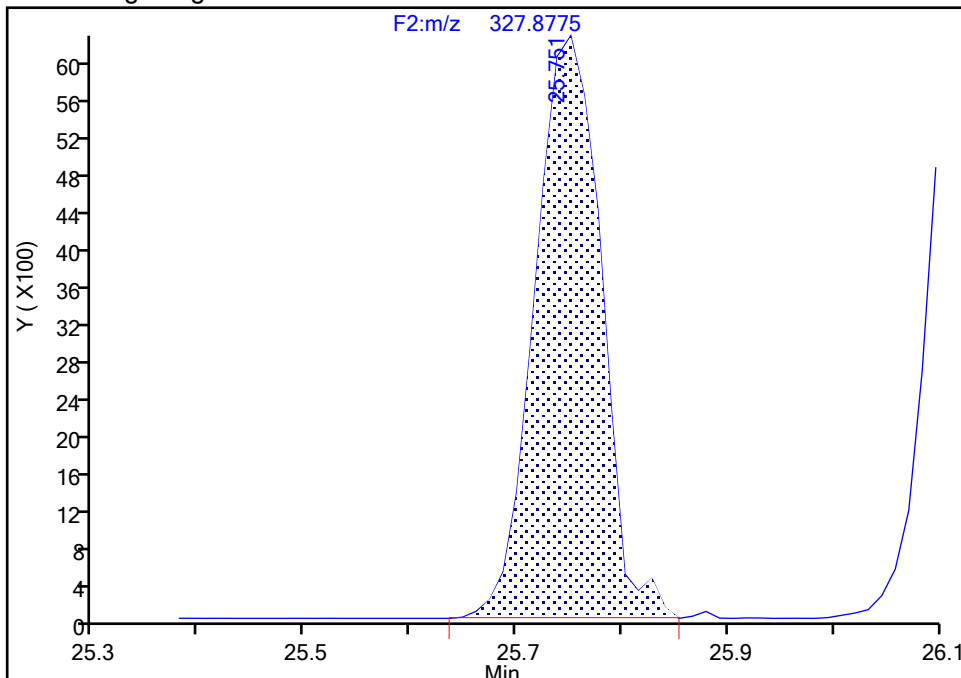


Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d		
Injection Date:	31-May-2024 16:53:00	Instrument ID:	D2D
Lims ID:	IC L2		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl (0.25 mm)	Detector	F2(21.81 :35.54

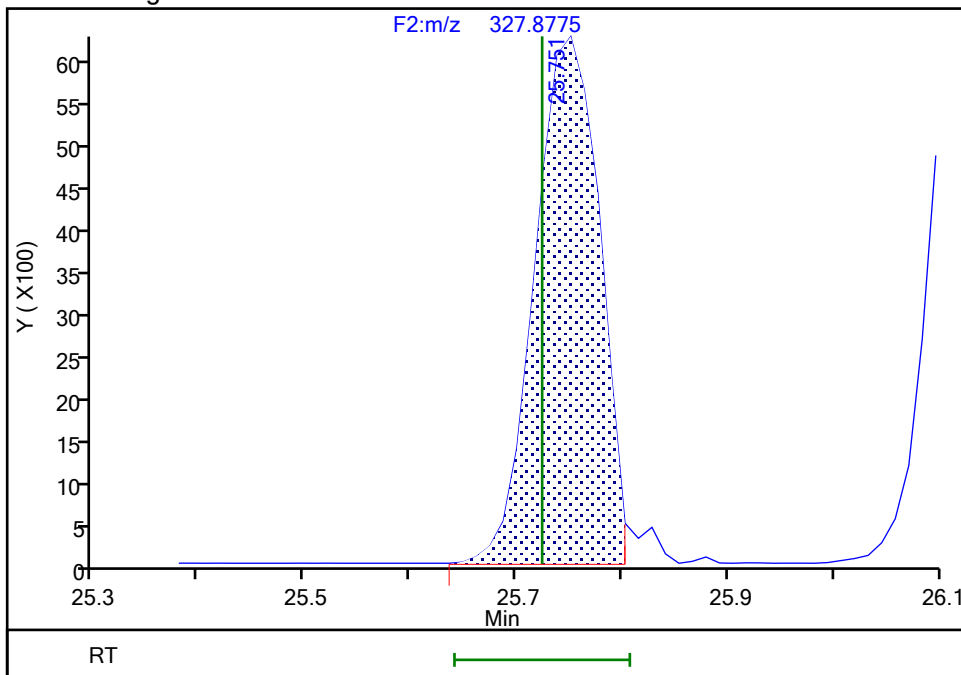
```
ALS Bottle#:      0          Worklist Smp#:      2
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F2(21.81 :35.54 )
```

Signal: 2

RT: 25.75
Area: 27177
Amount: 0.988513
Amount Units: pg/ul



RT: 25.75
Area: 26359
Amount: 0.977407
Amount Units: pg/ul



Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

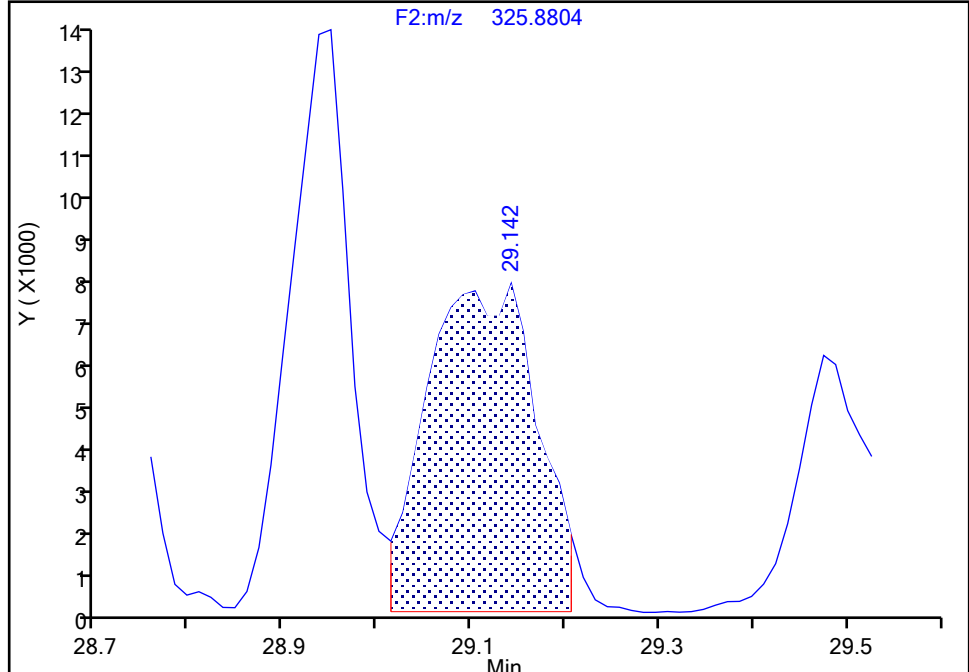
Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 1

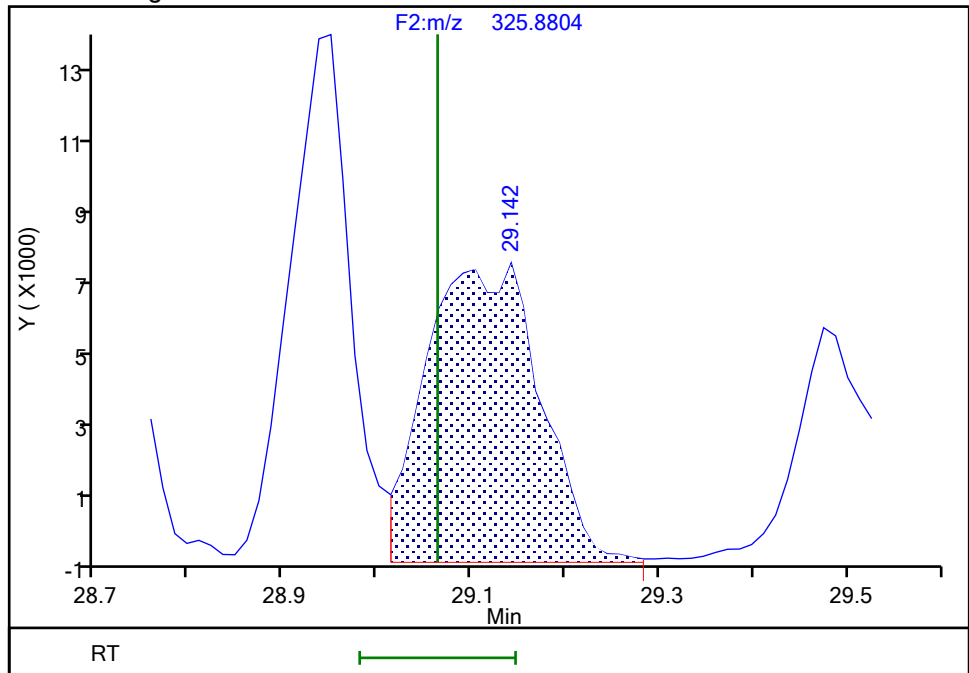
RT: 29.14
Area: 63005
Amount: 1.537926
Amount Units: pg/ul

Processing Integration Results



RT: 29.14
Area: 65793
Amount: 1.974400
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:35:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

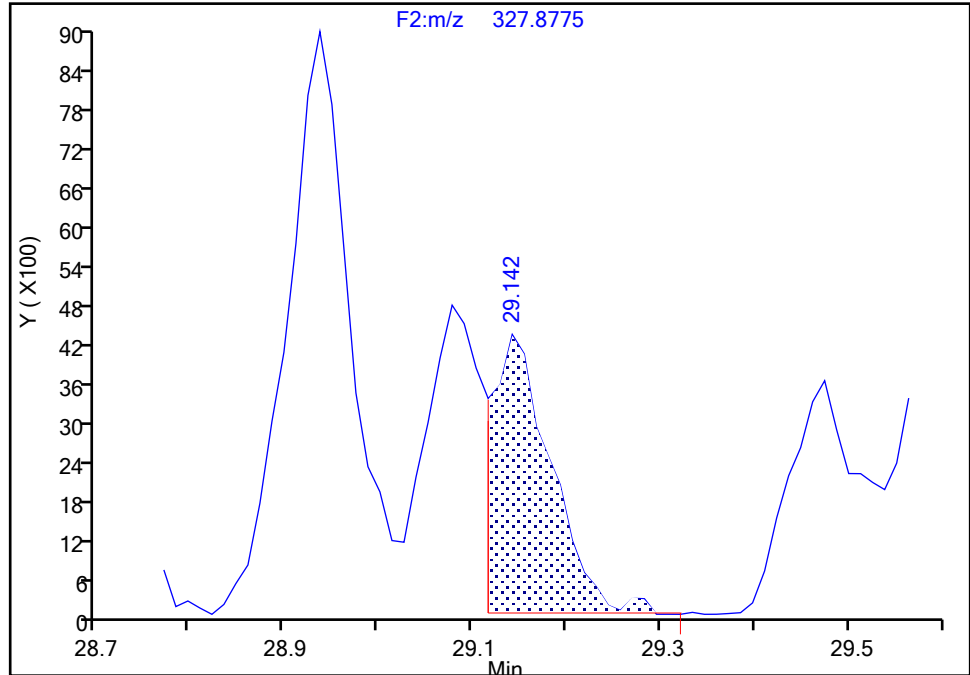
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 2

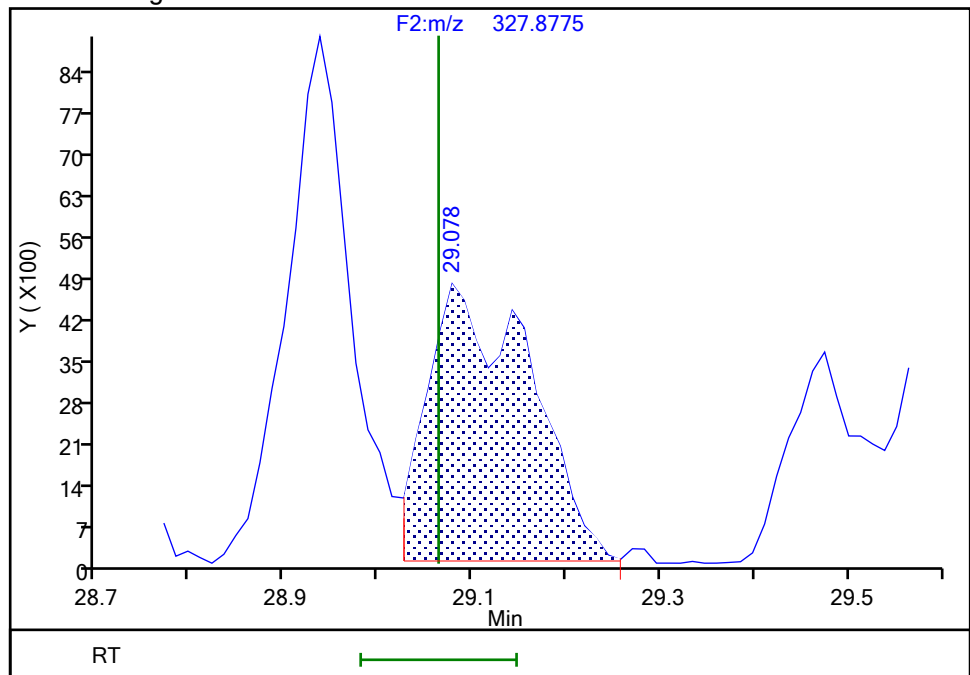
RT: 29.14
Area: 18201
Amount: 1.537926
Amount Units: pg/ul

Processing Integration Results



RT: 29.08
Area: 36004
Amount: 1.974400
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:35:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

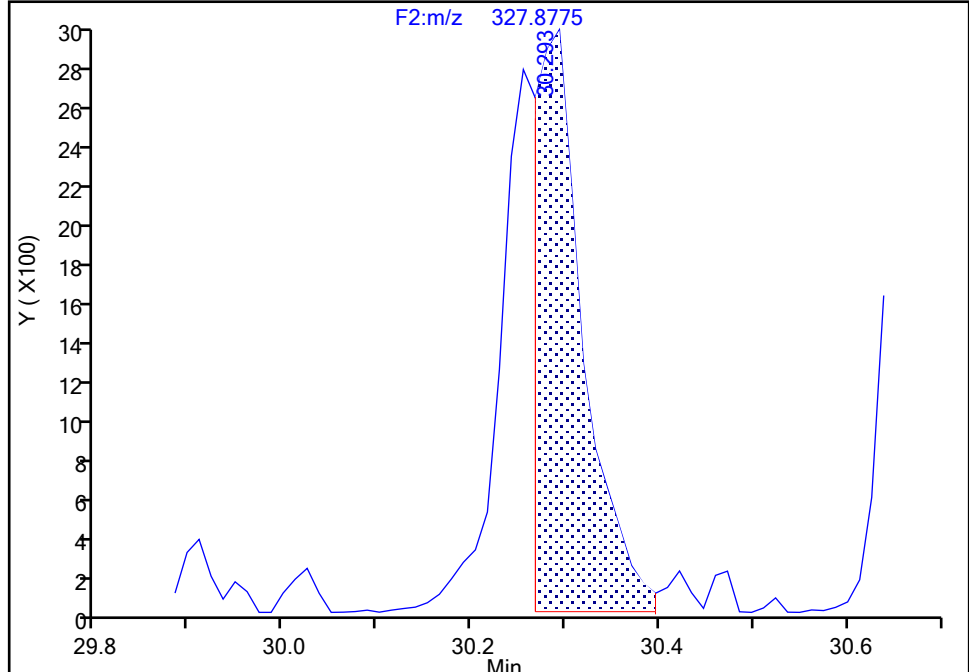
Detector F2(21.81 :35.54)

PCB-89, CAS: 73575-57-2

Signal: 2

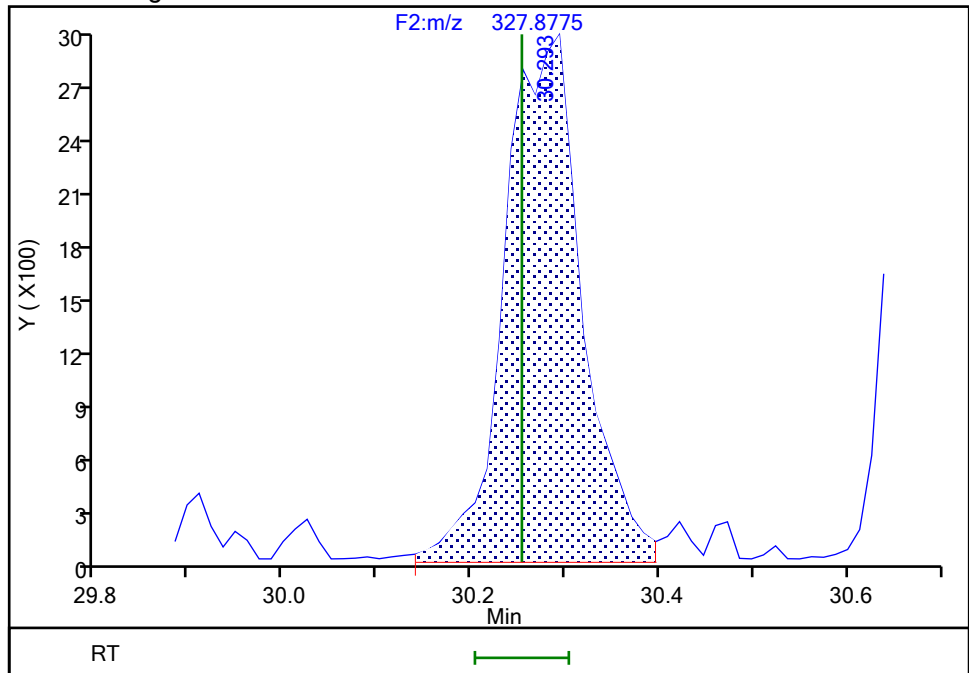
RT: 30.29
Area: 9688
Amount: 0.784234
Amount Units: pg/ul

Processing Integration Results



RT: 30.29
Area: 16658
Amount: 0.957137
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

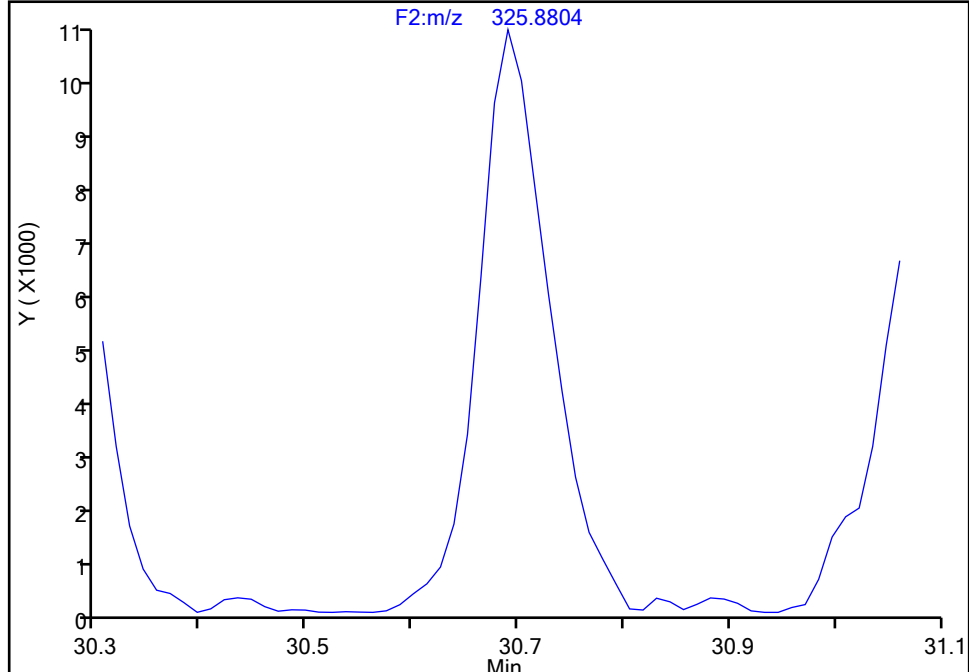
Detector F2(21.81 :35.54)

PCB-121, CAS: 56558-18-0

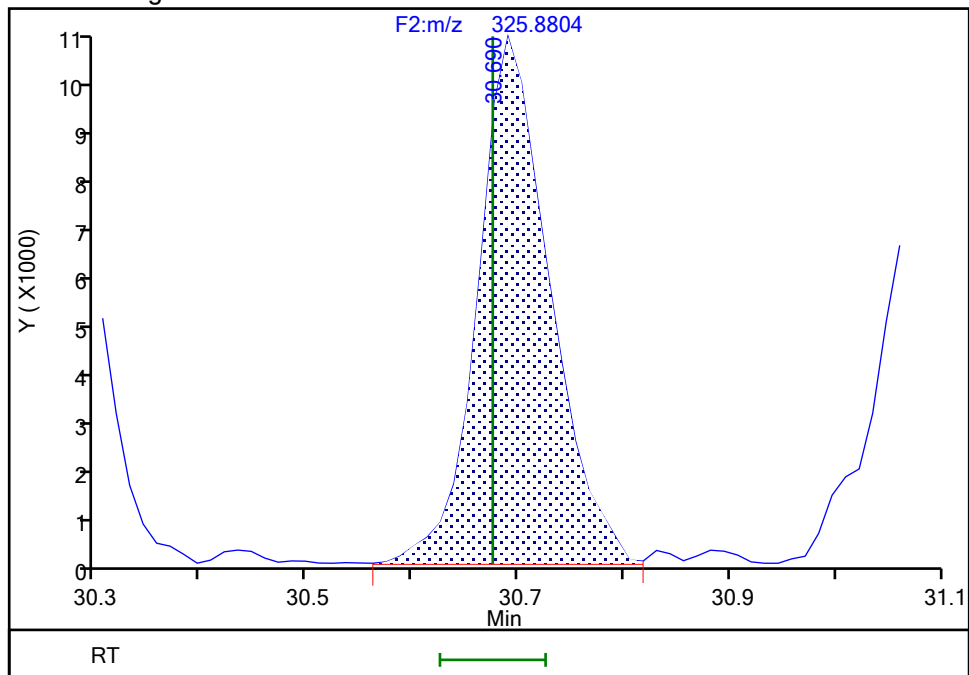
Signal: 1

Not Detected
Expected RT: 30.68

Processing Integration Results

RT: 30.69
Area: 49412
Amount: 1.016498
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:13 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

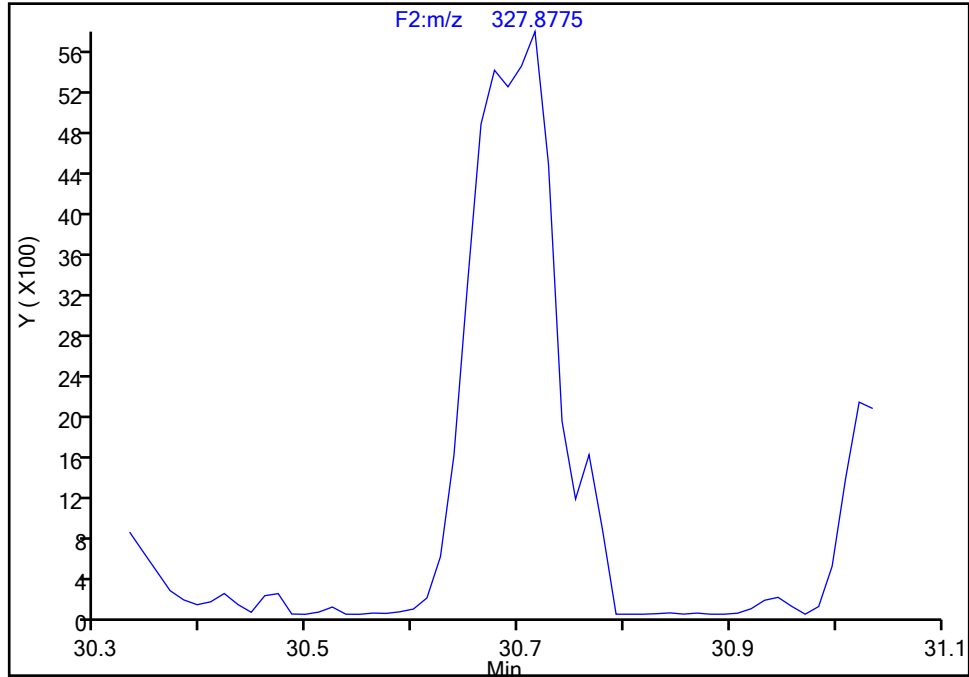
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-121, CAS: 56558-18-0

Signal: 2

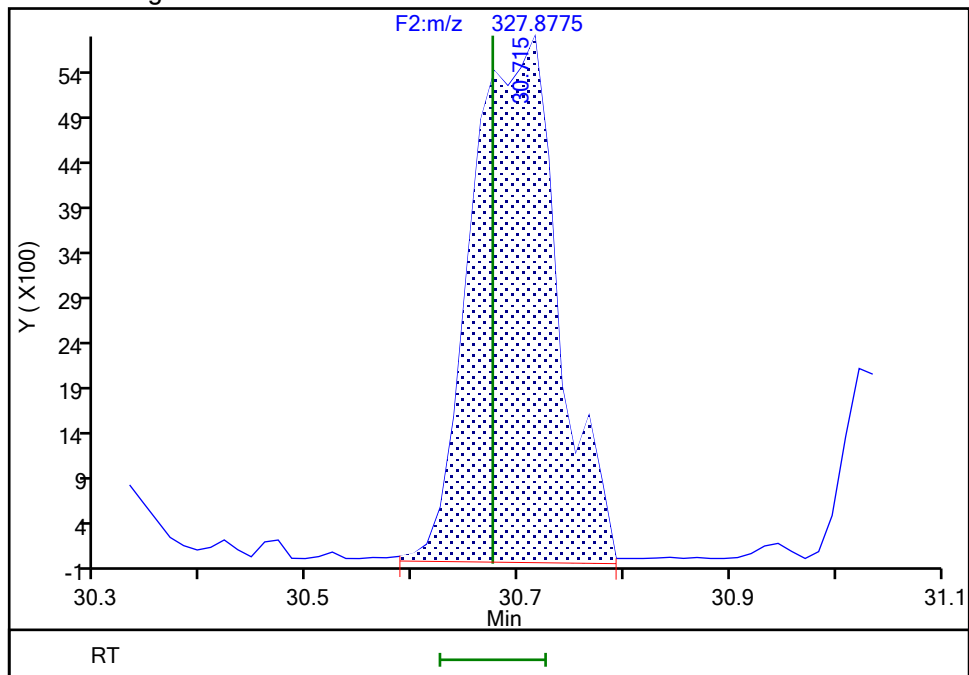
Not Detected
Expected RT: 30.68

Processing Integration Results



RT: 30.72
Area: 32828
Amount: 1.016498
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-015224-03259
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

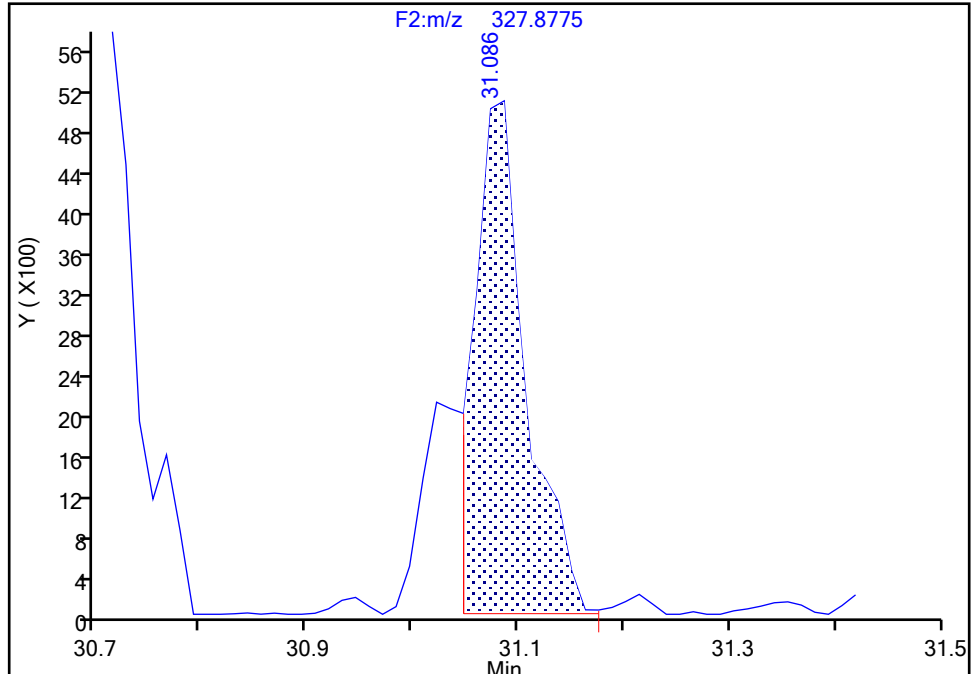
Detector F2(21.81 :35.54)

PCB-92, CAS: 52663-61-3

Signal: 2

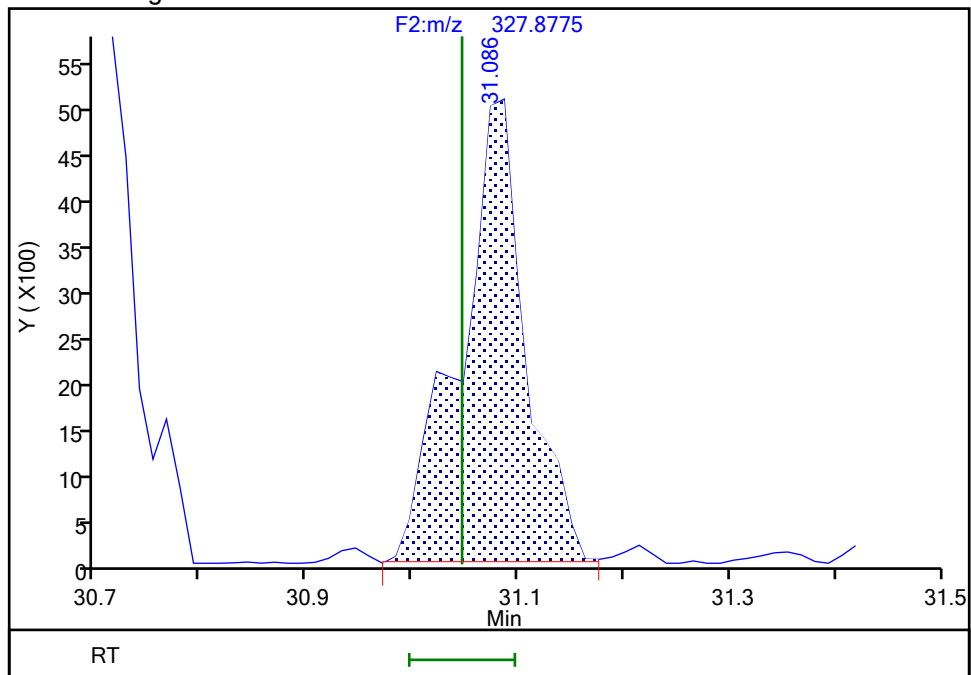
RT: 31.09
Area: 16788
Amount: 1.003564
Amount Units: pg/ul

Processing Integration Results



RT: 31.09
Area: 22142
Amount: 1.060190
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

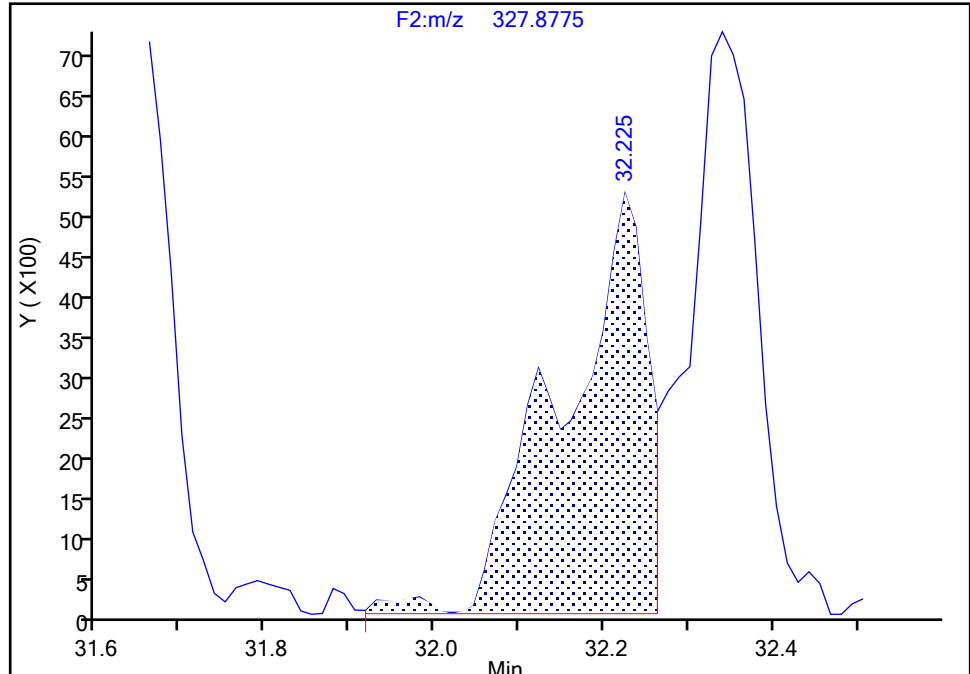
Detector F2(21.81 :35.54)

PCB-83/99, CAS: STL01809

Signal: 2

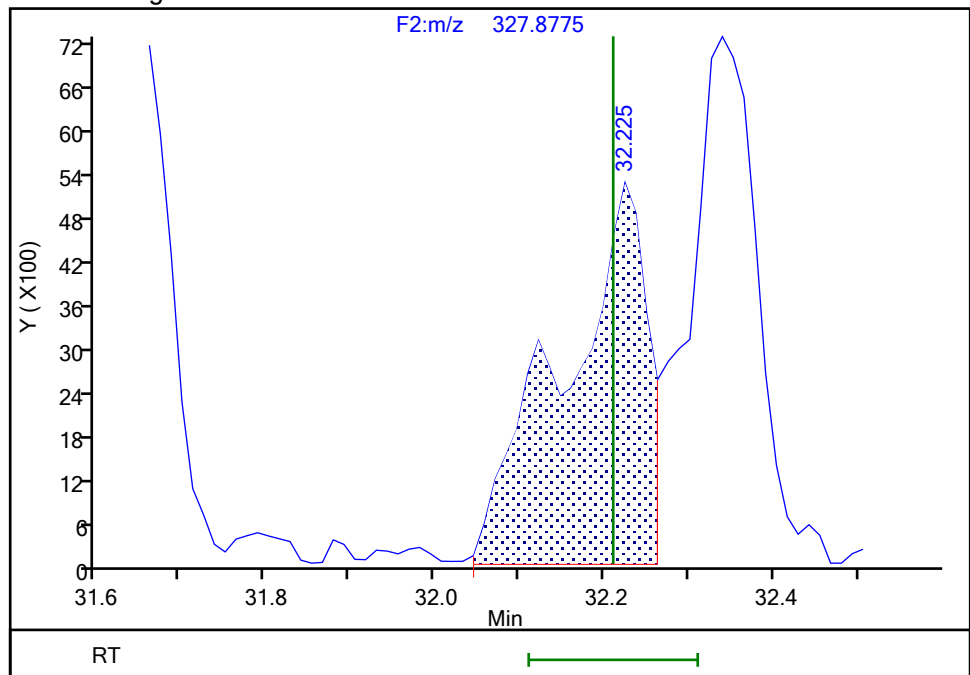
RT: 32.22
Area: 36700
Amount: 1.880198
Amount Units: pg/ul

Processing Integration Results



RT: 32.22
Area: 35800
Amount: 1.935817
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:36:52 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

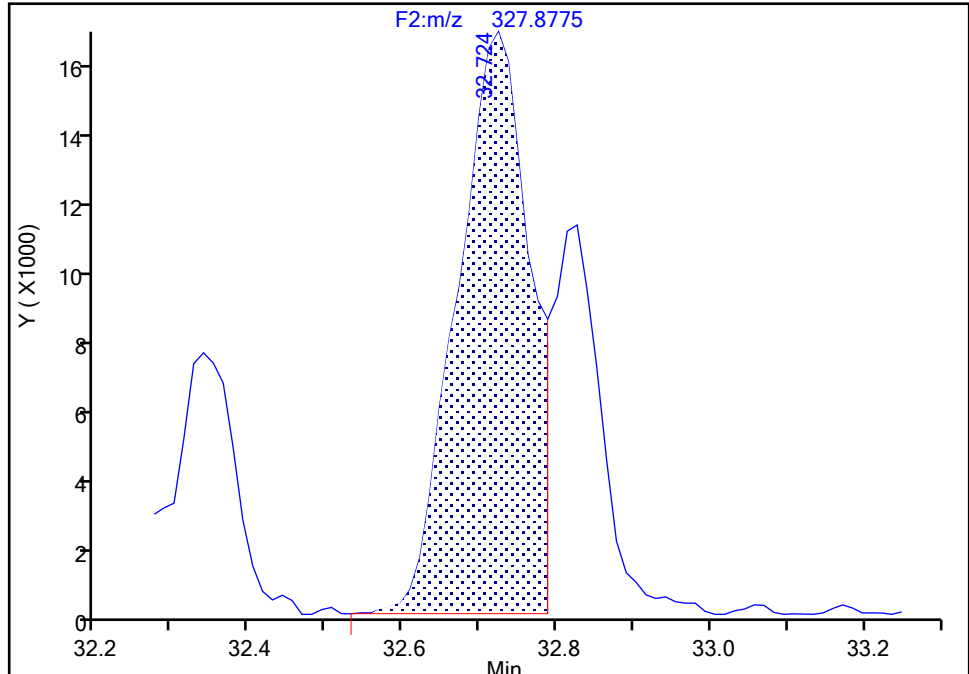
F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

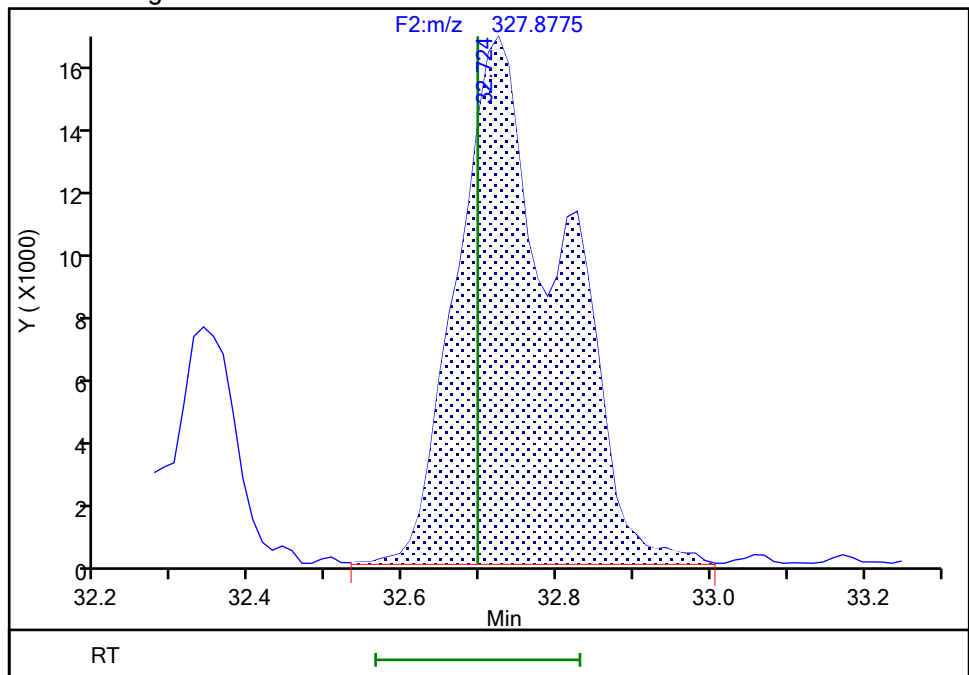
RT: 32.72
Area: 104672
Amount: 5.584559
Amount Units: pg/ul

Processing Integration Results



RT: 32.72
Area: 151456
Amount: 5.816787
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

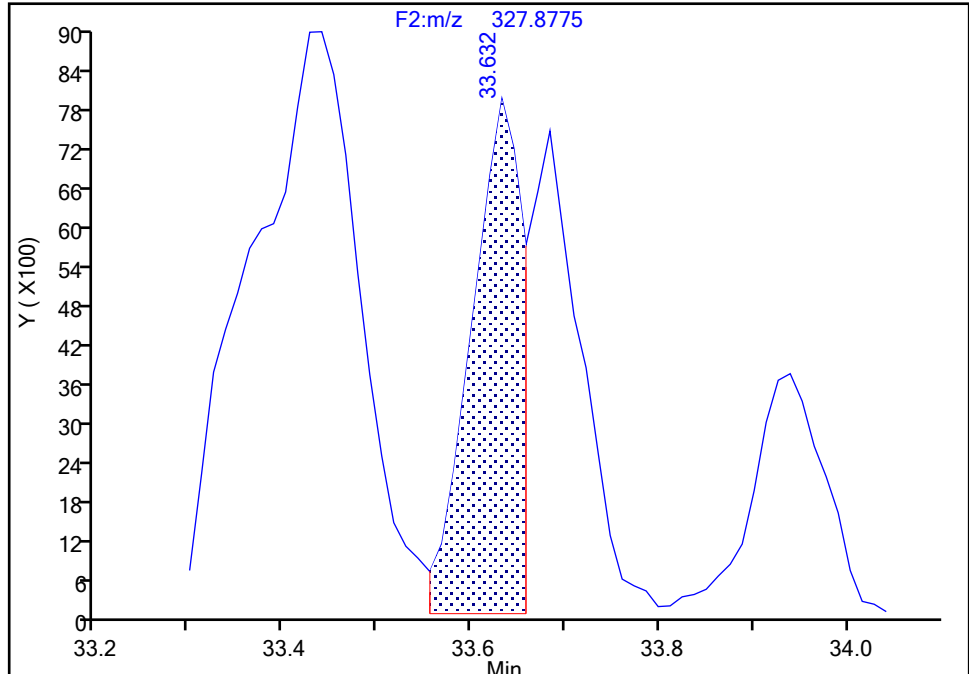
Detector F2(21.81 :35.54)

PCB-110/115, CAS: STL01826

Signal: 2

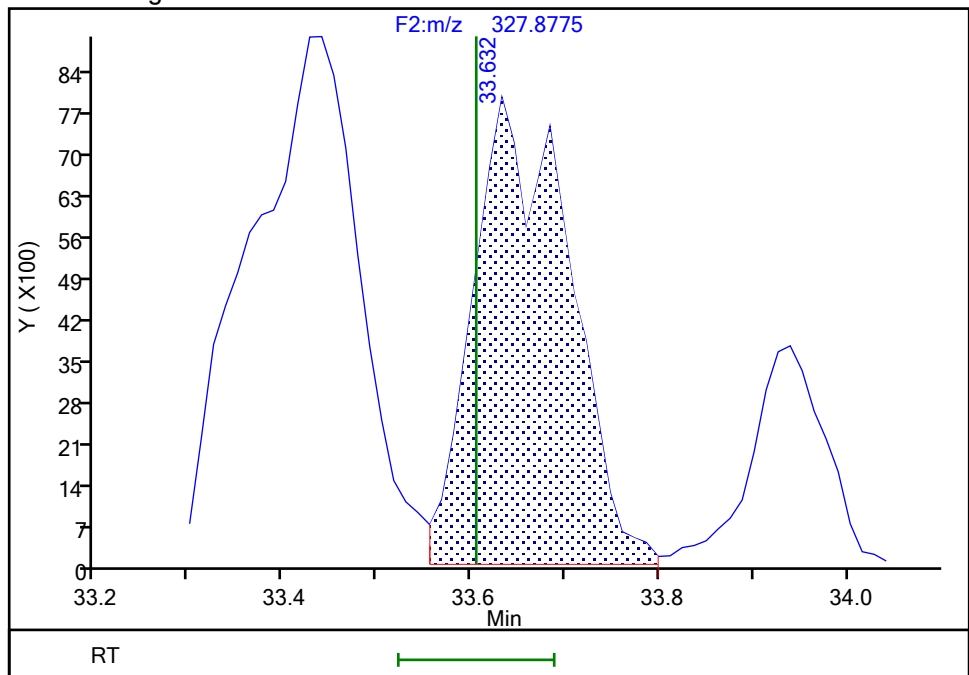
RT: 33.63
Area: 28445
Amount: 1.050678
Amount Units: pg/ul

Processing Integration Results



RT: 33.63
Area: 56088
Amount: 2.059020
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

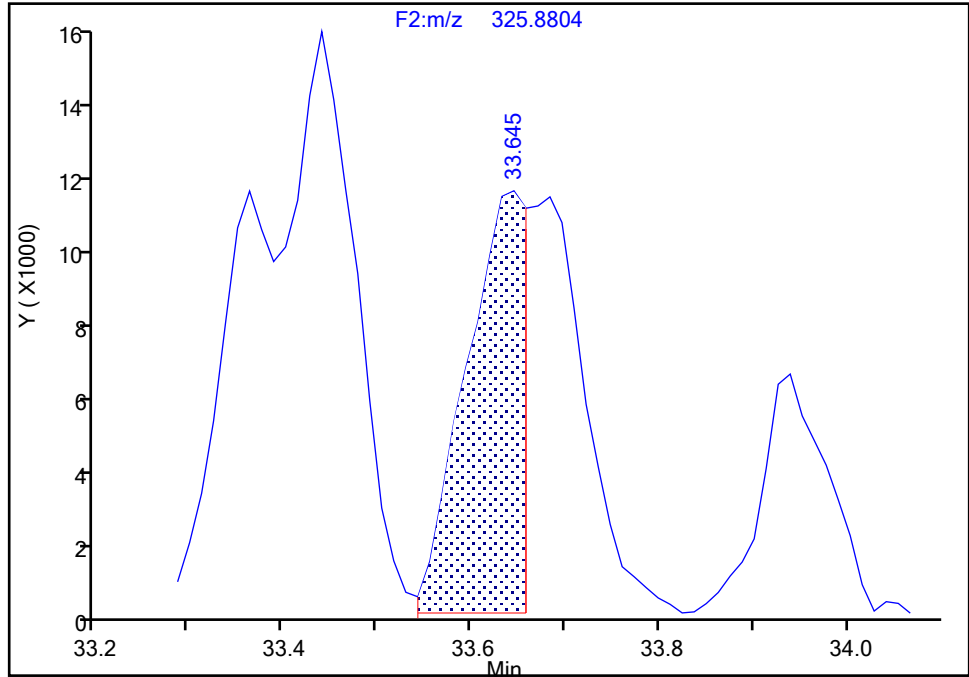
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-110/115, CAS: STL01826

Signal: 1

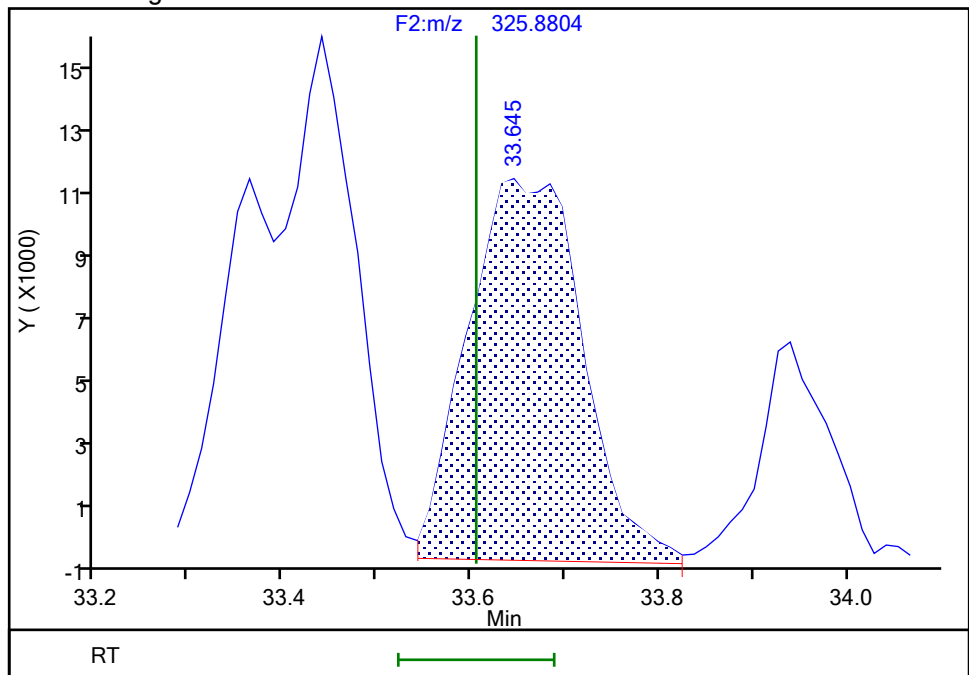
RT: 33.65
Area: 47401
Amount: 1.050678
Amount Units: pg/ul

Processing Integration Results



RT: 33.65
Area: 97064
Amount: 2.059020
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-01224-01
9/6/2024 2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

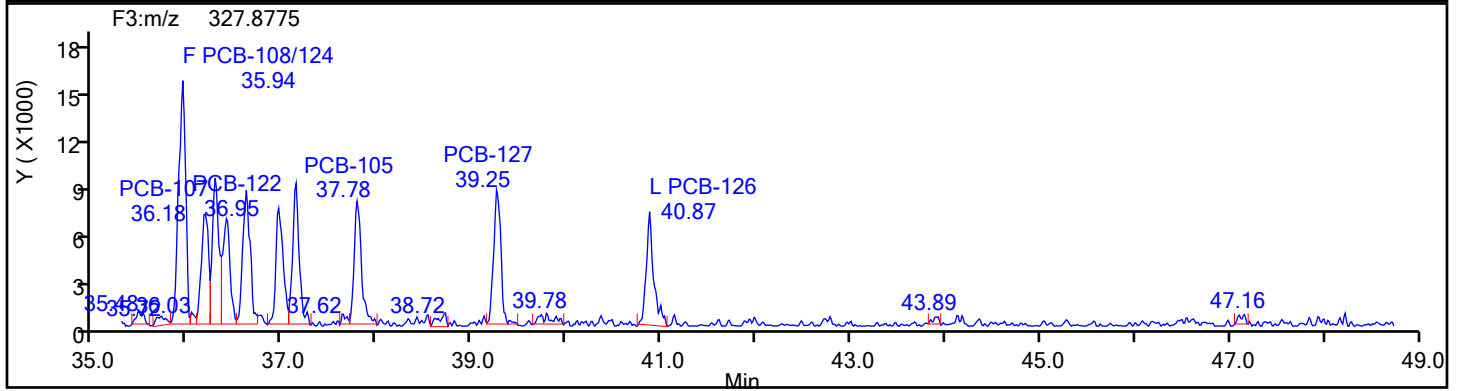
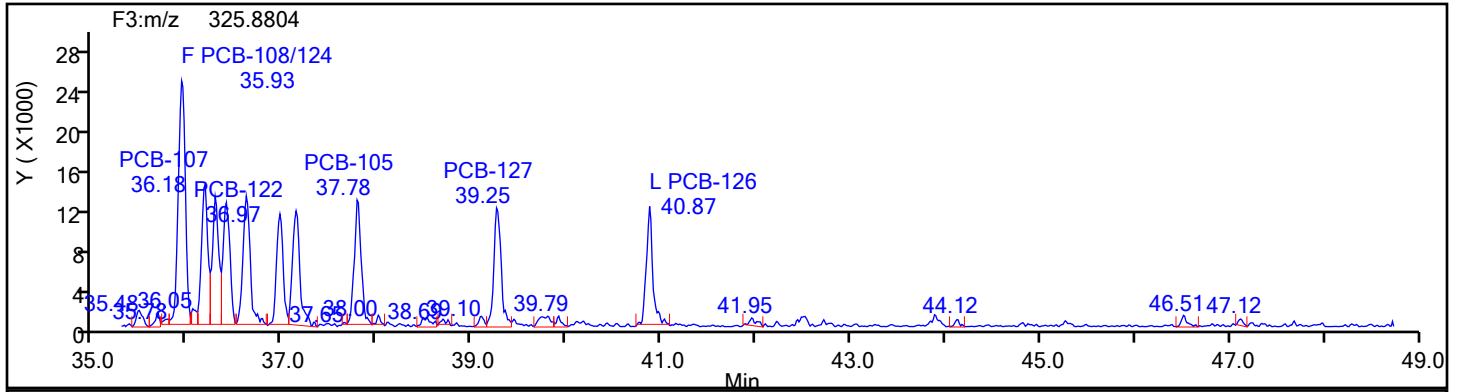
Worklist#: 87130

Sample Line#: 2

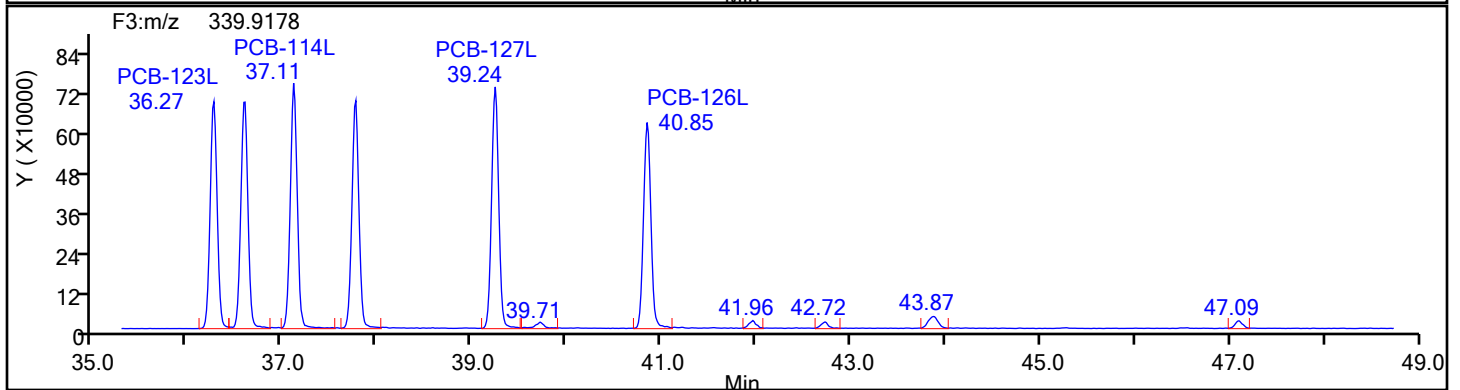
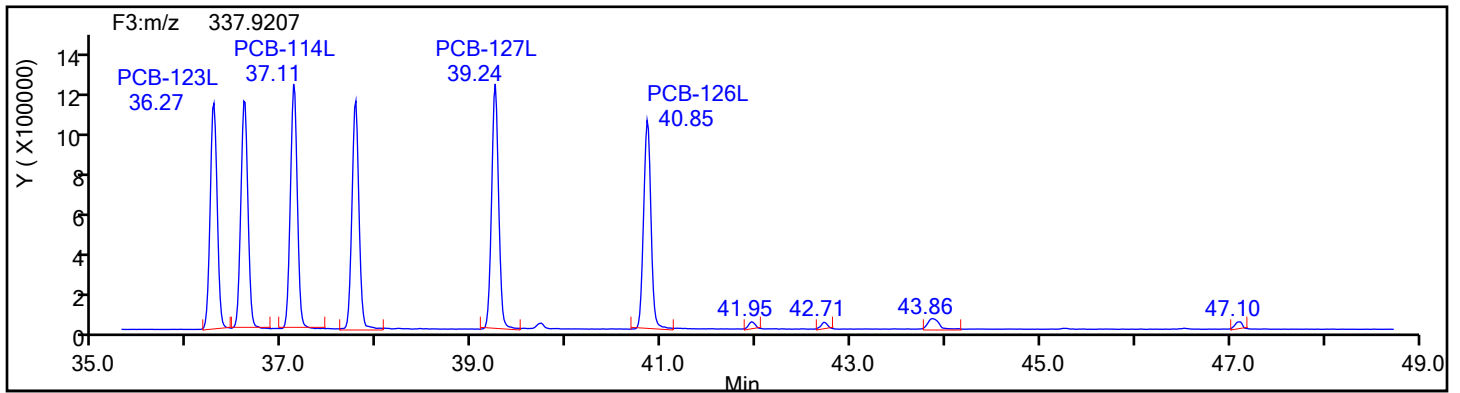
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

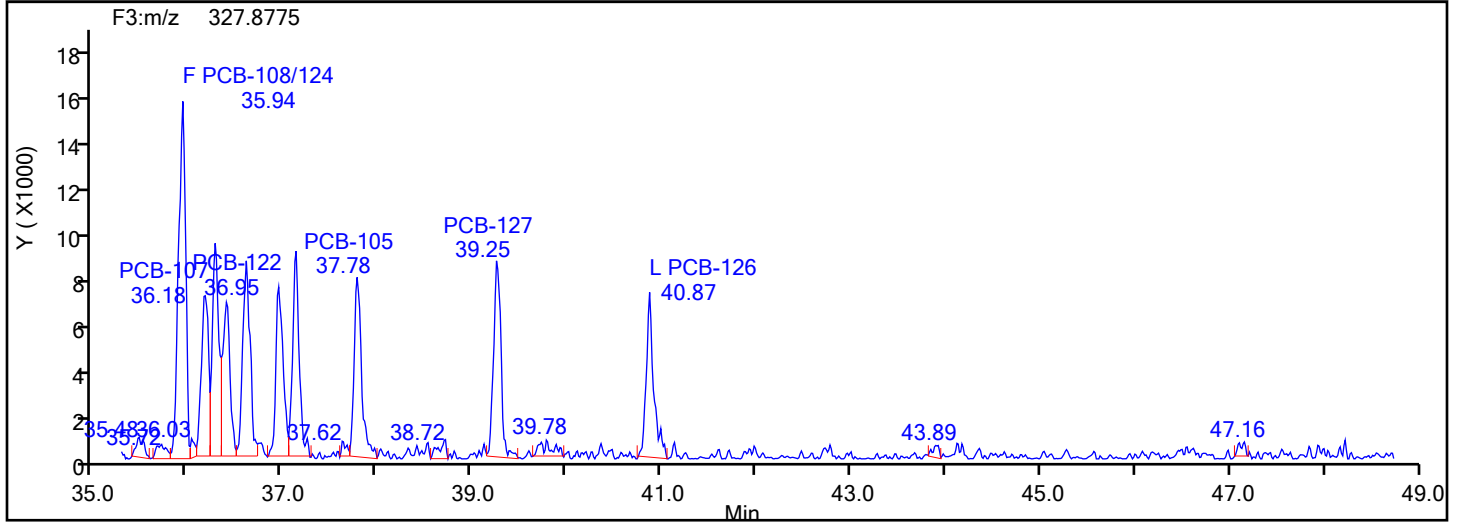
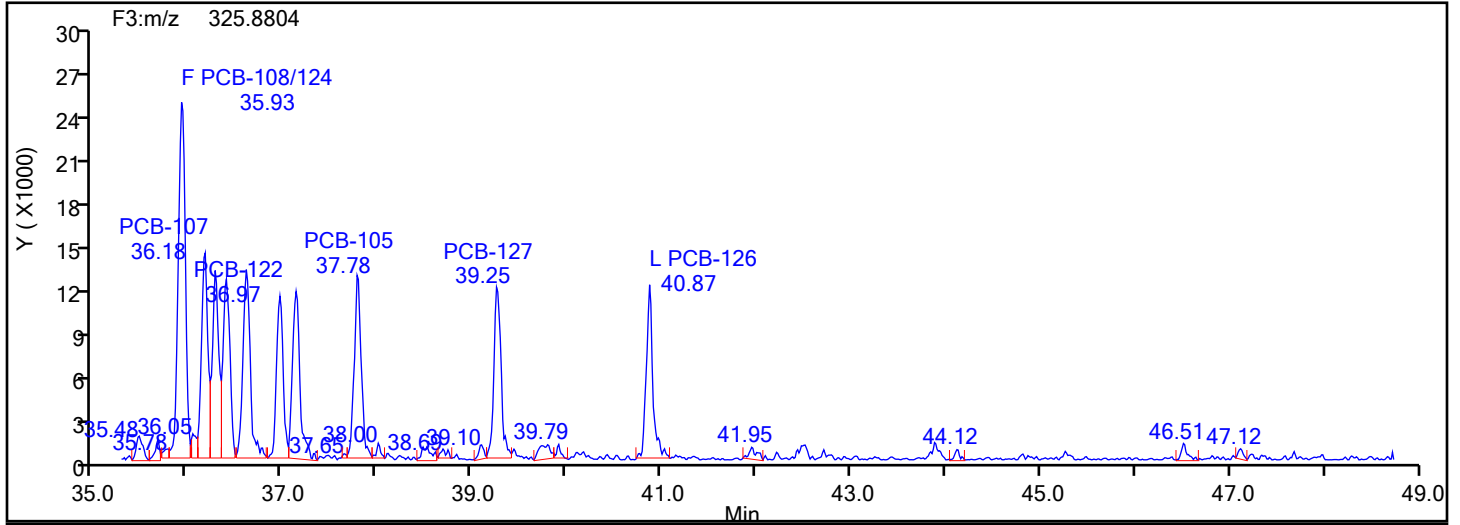
Worklist#: 87130

Sample Line#: 2

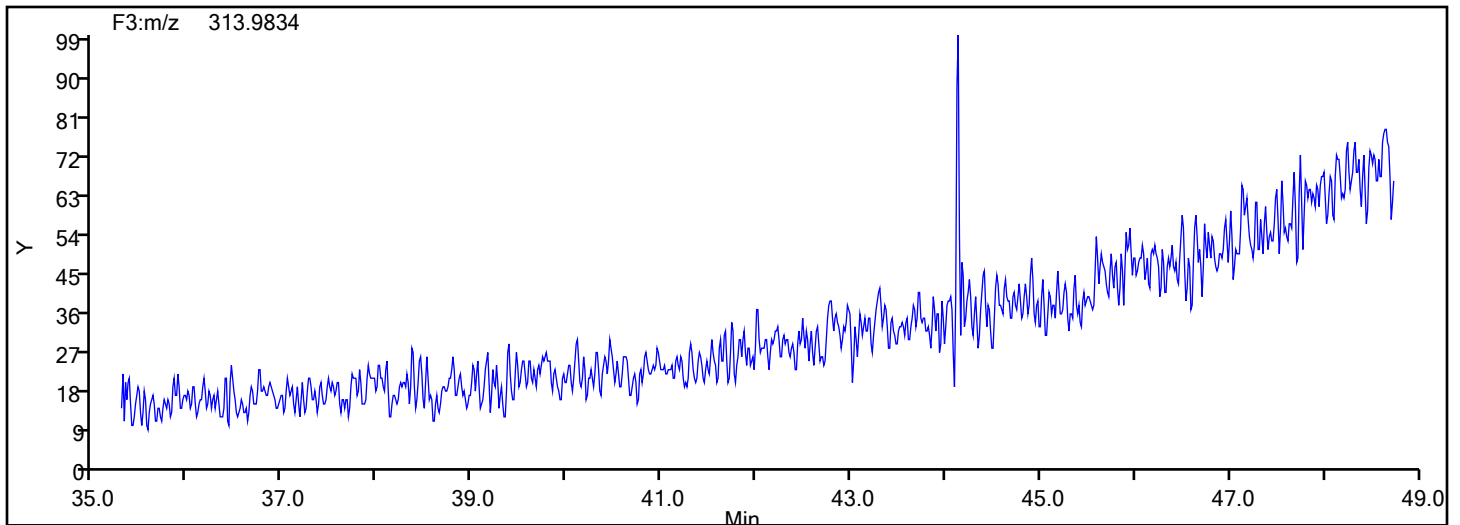
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

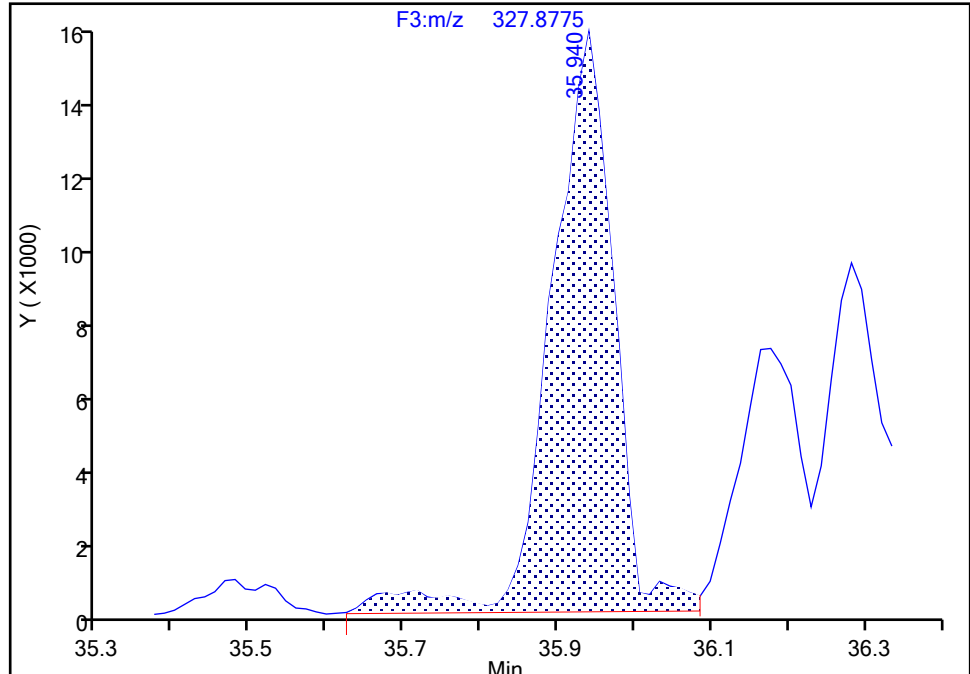
Detector F3(35.64 :49.10)

PCB-108/124, CAS: STL02294

Signal: 2

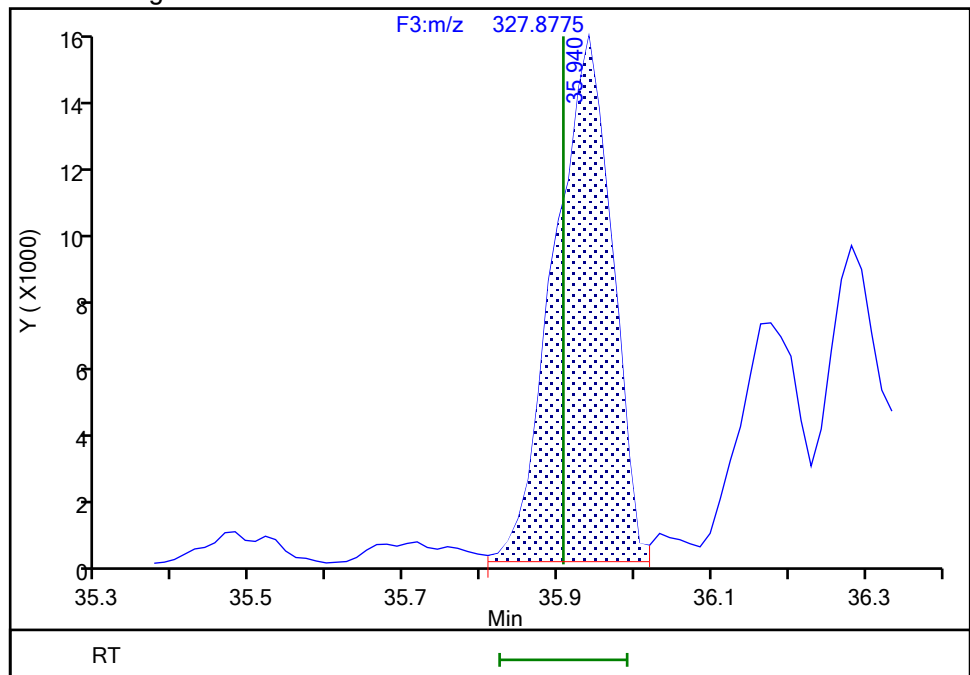
RT: 35.94
Area: 85784
Amount: 2.094460
Amount Units: pg/ul

Processing Integration Results



RT: 35.94
Area: 79414
Amount: 1.988181
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:09:34 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

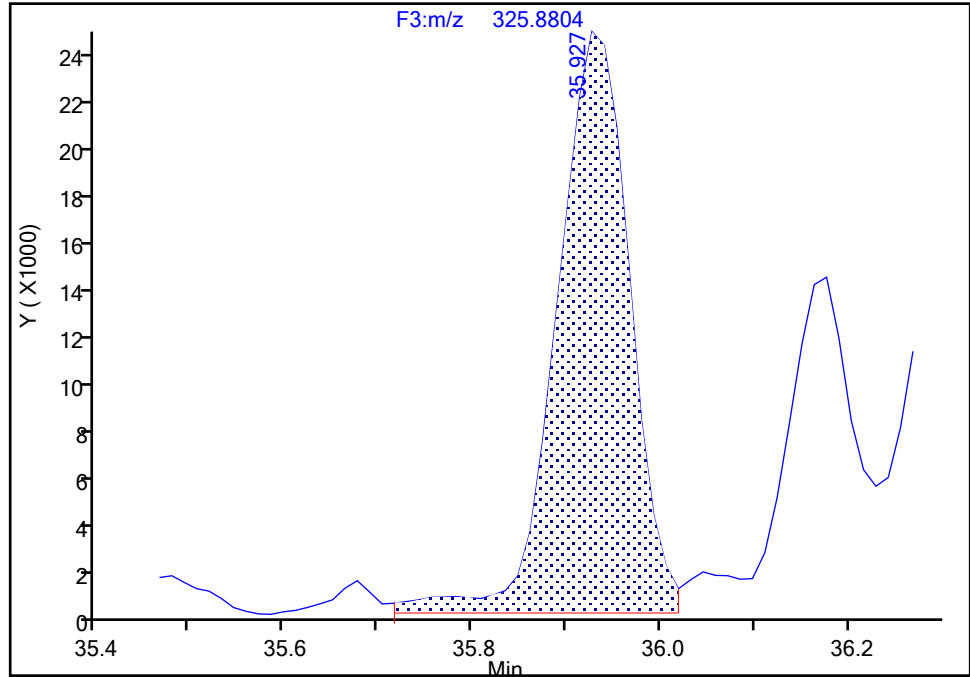
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-108/124, CAS: STL02294

Signal: 1

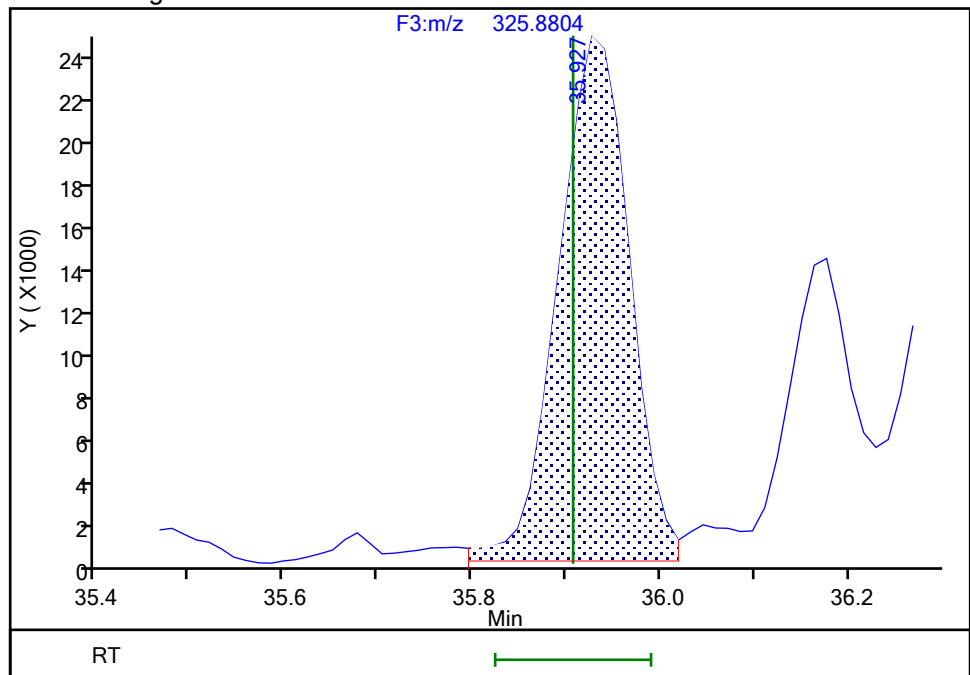
RT: 35.93
Area: 131741
Amount: 2.094460
Amount Units: pg/ul

Processing Integration Results



RT: 35.93
Area: 129156
Amount: 1.988181
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:09:37 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#: 0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

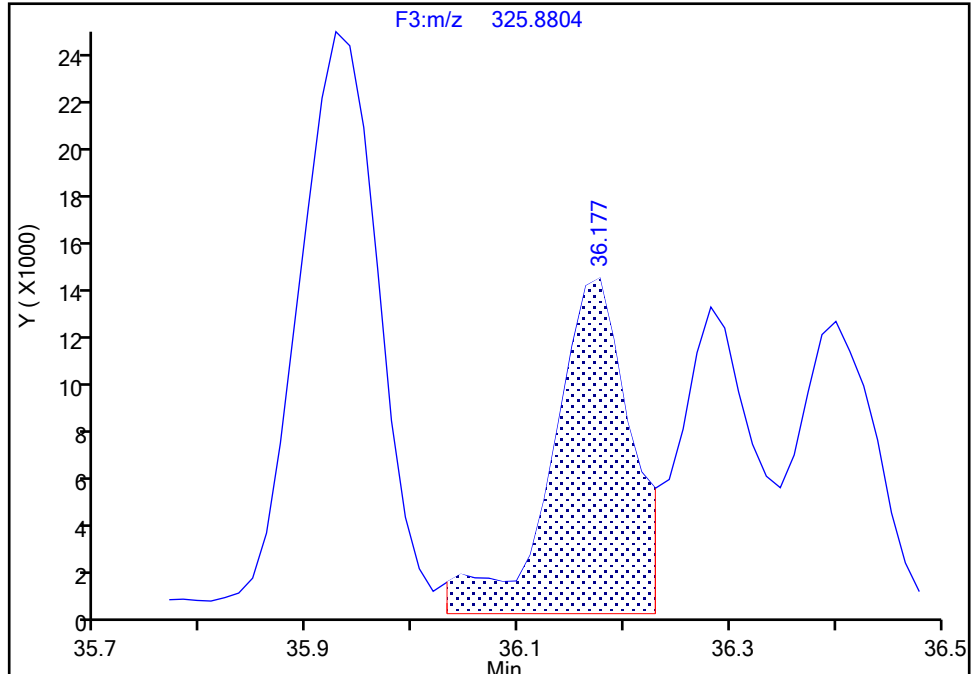
Detector F3(35.64 :49.10)

PCB-107, CAS: 70424-68-9

Signal: 1

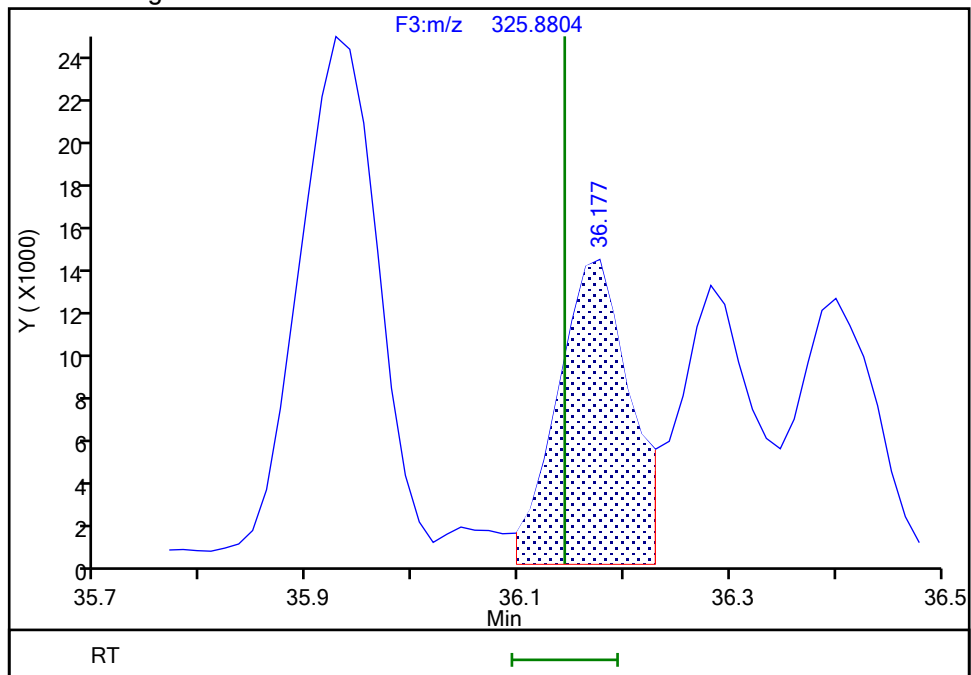
RT: 36.18
Area: 71873
Amount: 0.939406
Amount Units: pg/ul

Processing Integration Results



RT: 36.18
Area: 65956
Amount: 0.919787
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:09:17 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

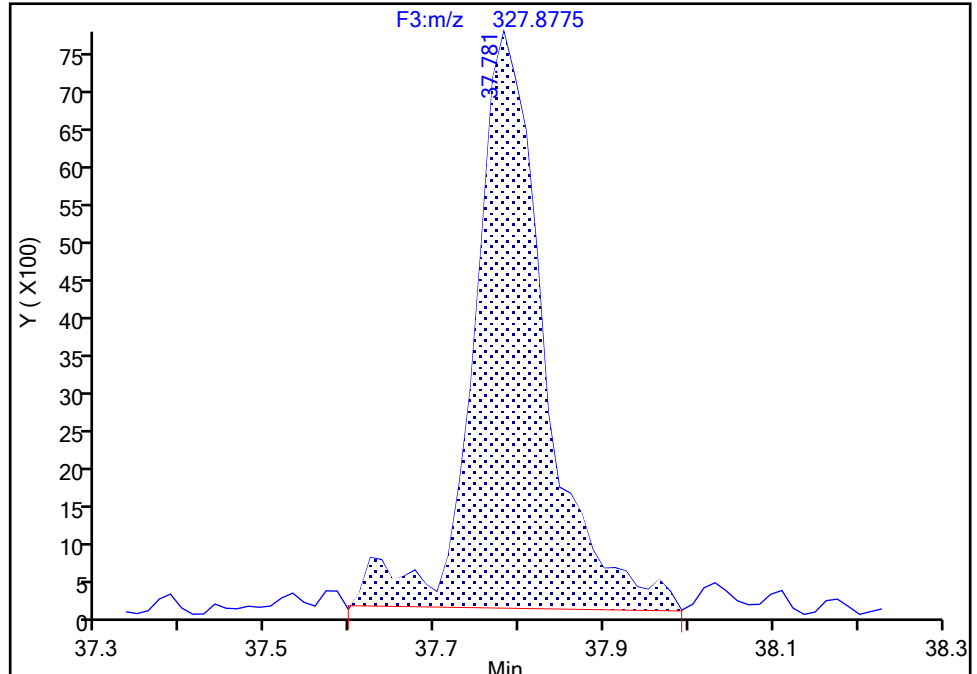
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-105, CAS: 32598-14-4

Signal: 2

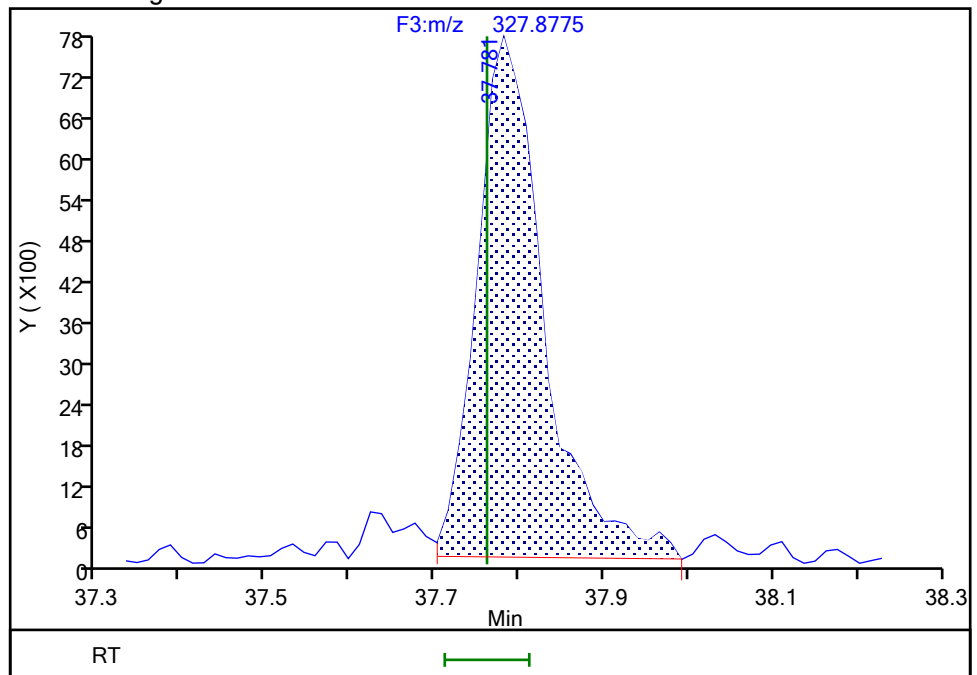
RT: 37.78
Area: 44477
Amount: 1.021569
Amount Units: pg/ul

Processing Integration Results



RT: 37.78
Area: 42090
Amount: 0.993744
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:37:13 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

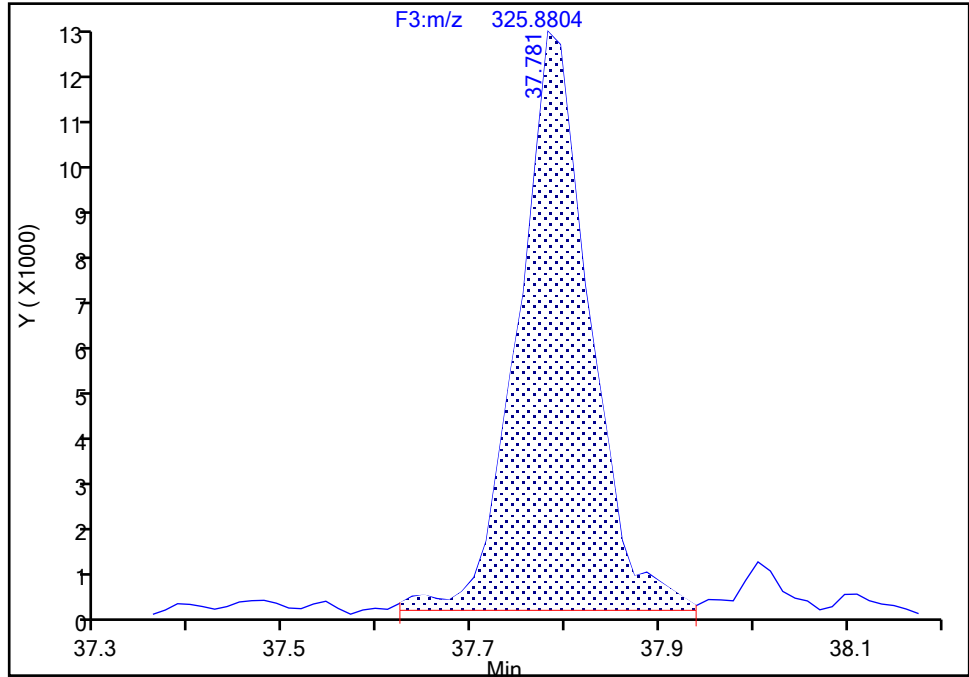
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-105, CAS: 32598-14-4

Signal: 1

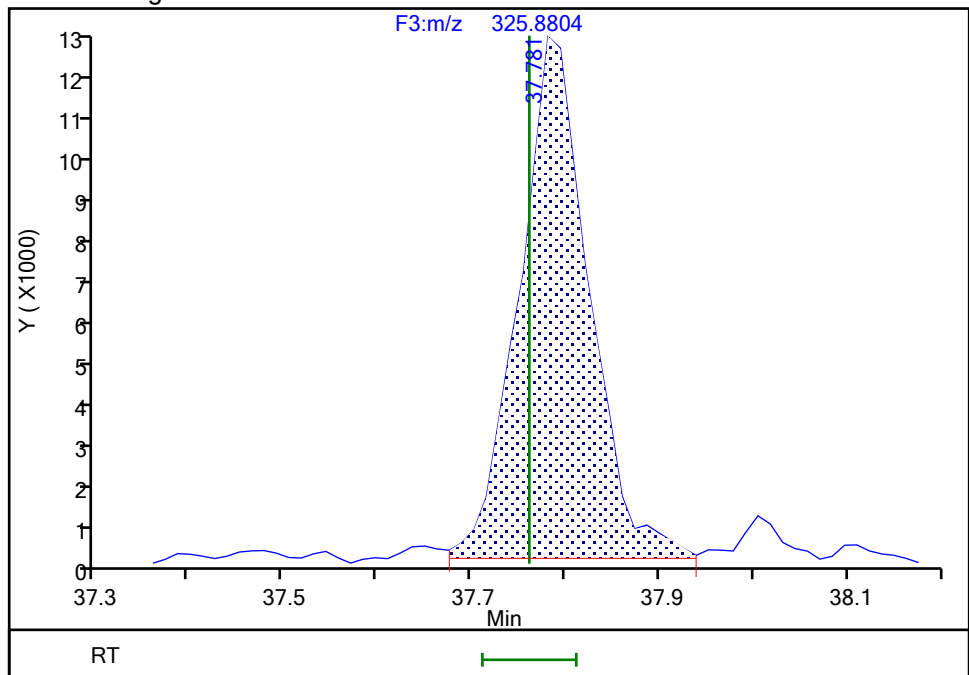
RT: 37.78
Area: 66144
Amount: 1.021569
Amount Units: pg/ul

Processing Integration Results



RT: 37.78
Area: 65351
Amount: 0.993744
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:37:16 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

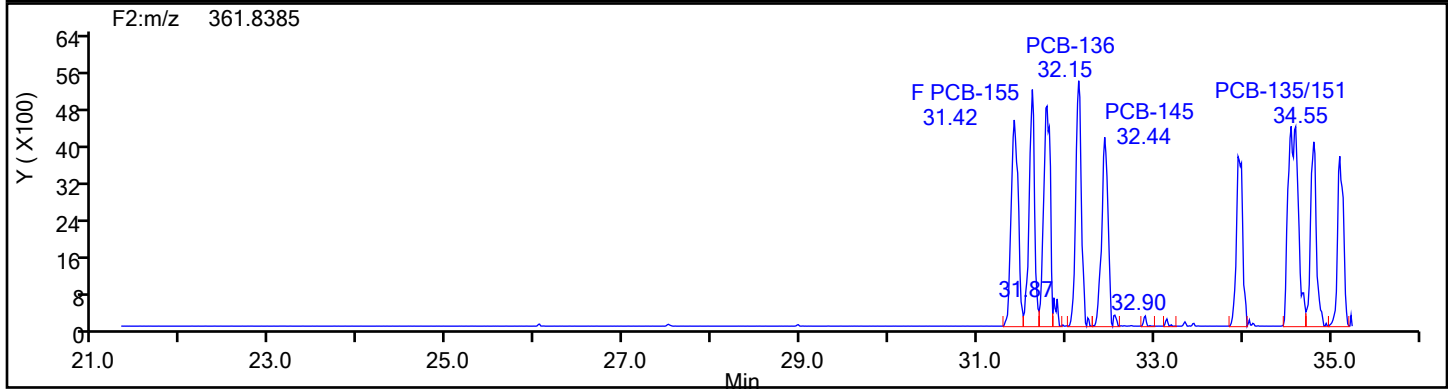
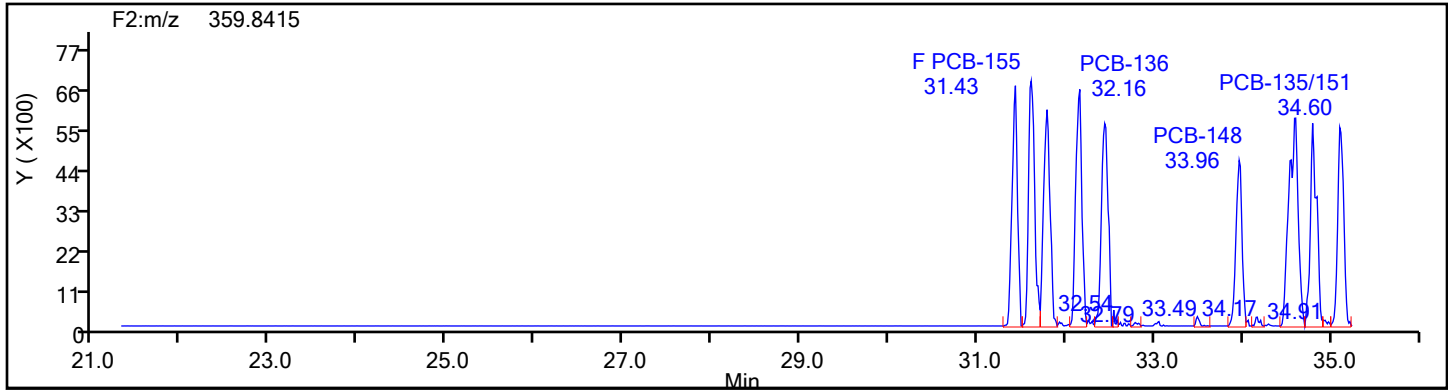
Worklist#: 87130

Sample Line#: 2

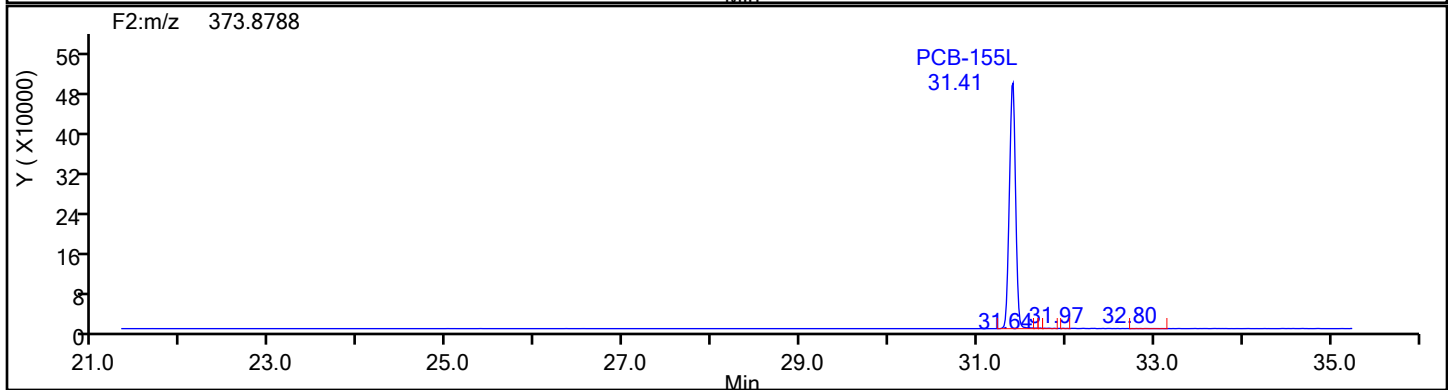
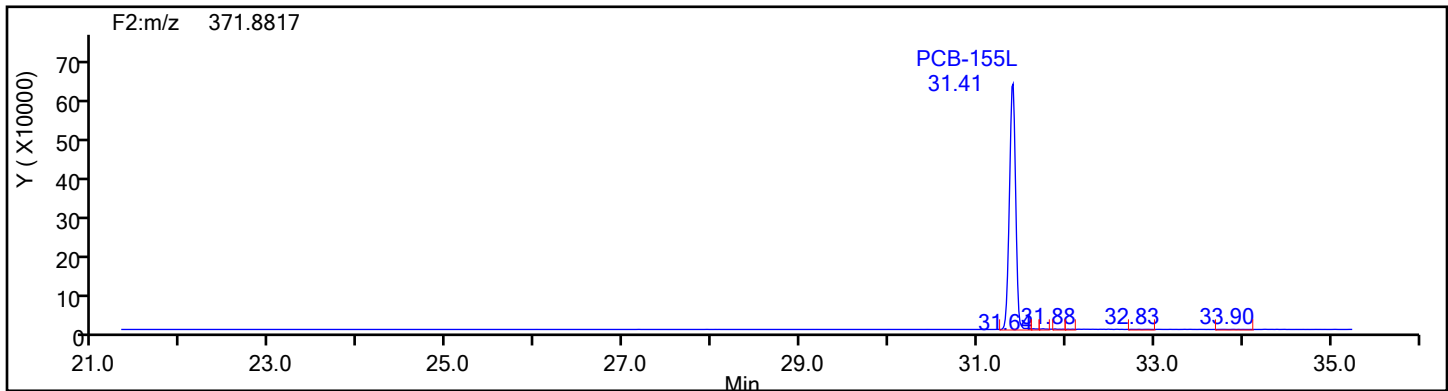
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

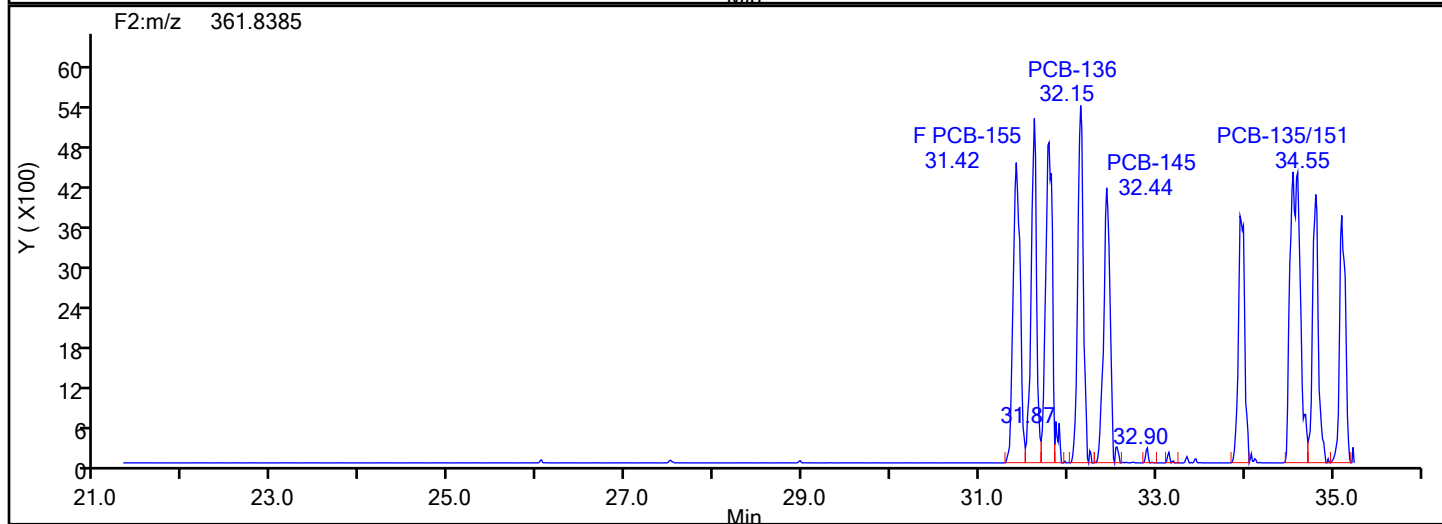
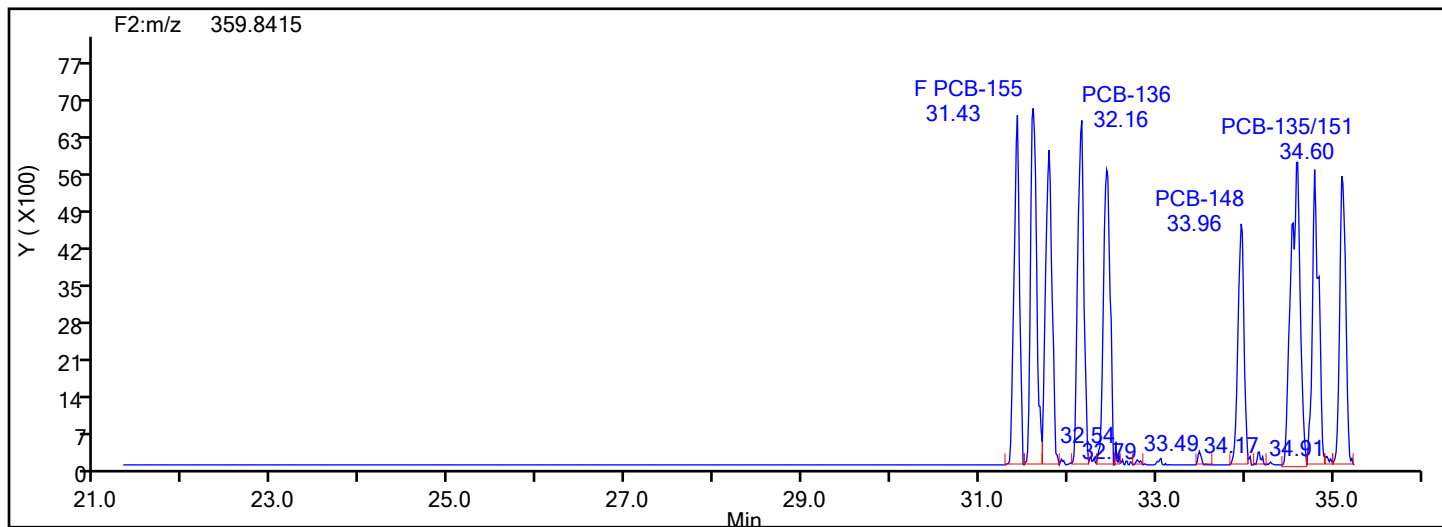
Worklist#: 87130

Sample Line#: 2

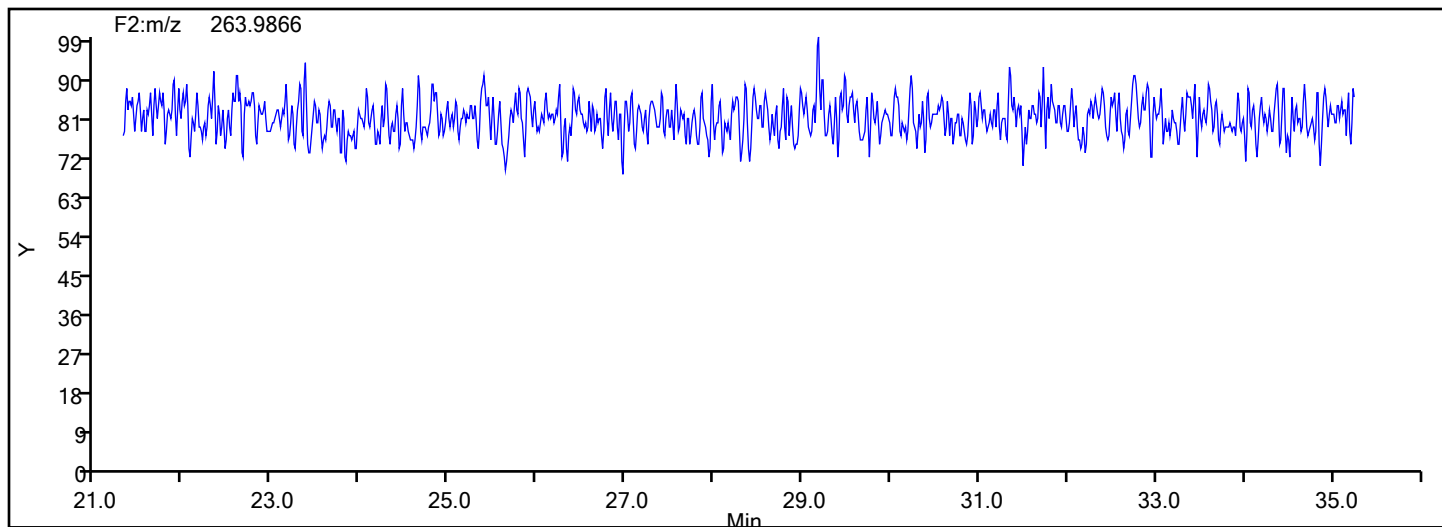
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

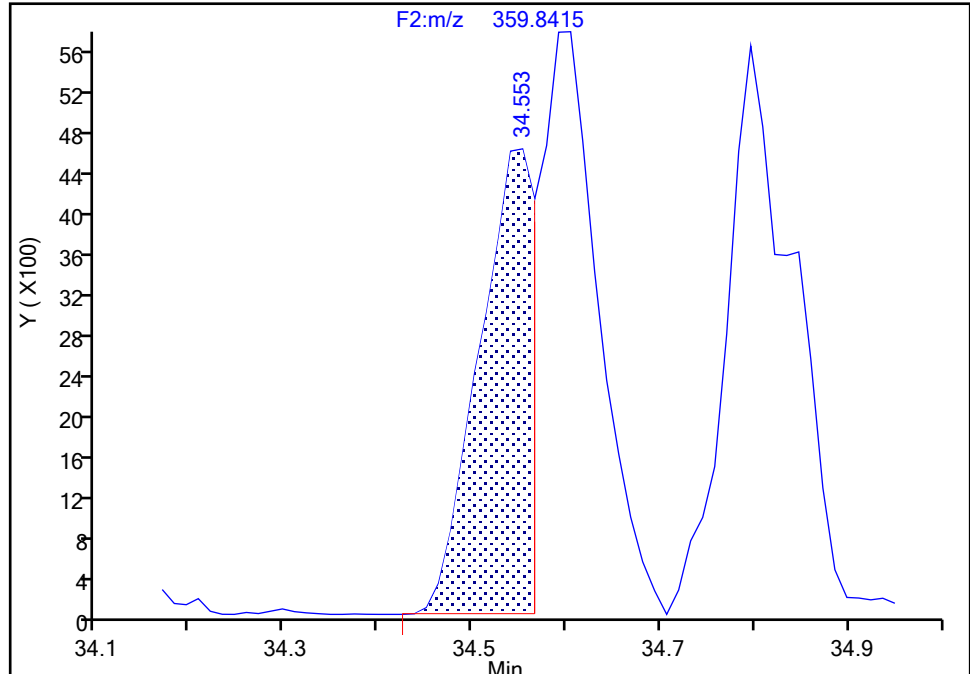
Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

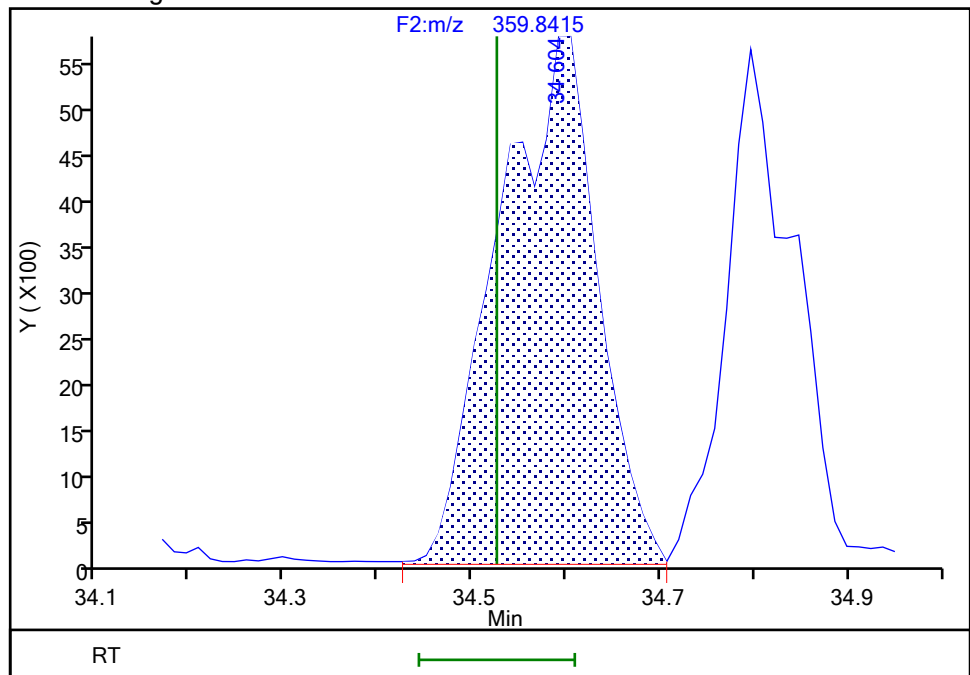
RT: 34.55
Area: 17791
Amount: 0.966805
Amount Units: pg/ul

Processing Integration Results



RT: 34.60
Area: 42637
Amount: 1.937644
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:38:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

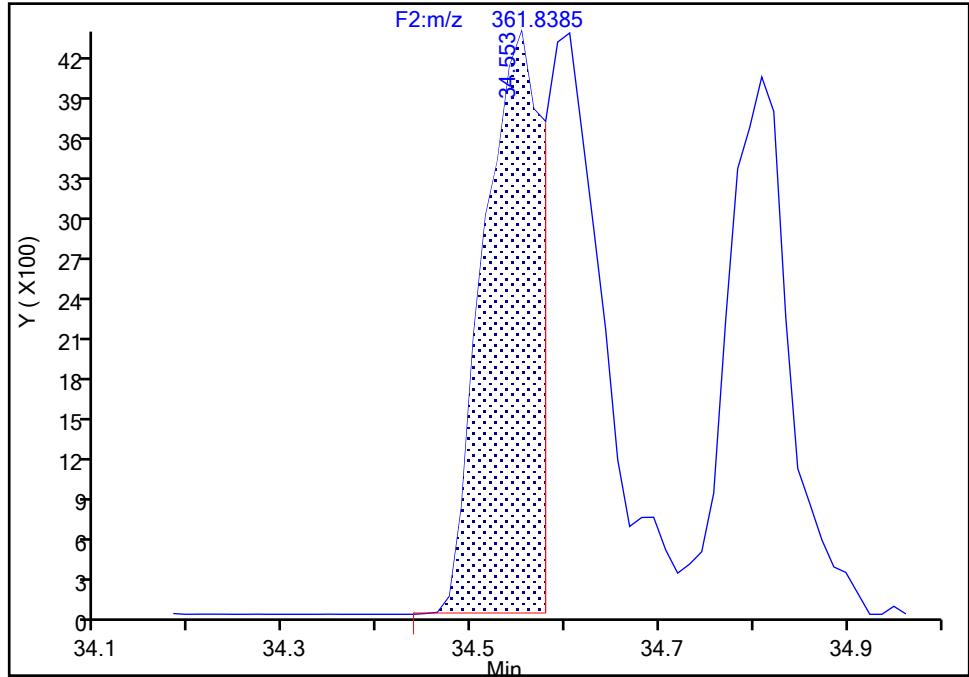
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

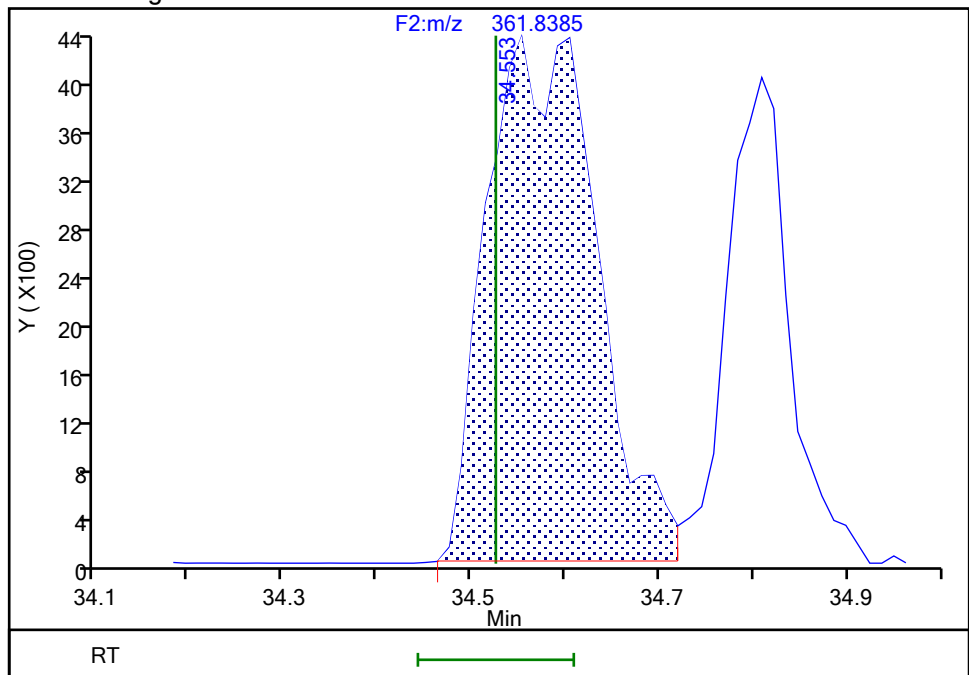
RT: 34.55
Area: 18073
Amount: 0.966805
Amount Units: pg/ul

Processing Integration Results



RT: 34.55
Area: 35628
Amount: 1.937644
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:38:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-015224-3275
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

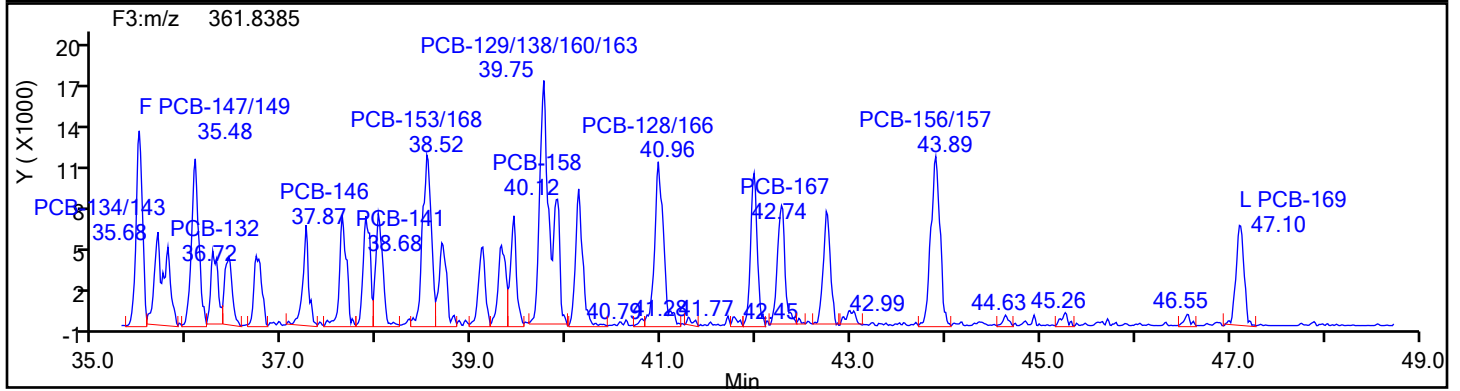
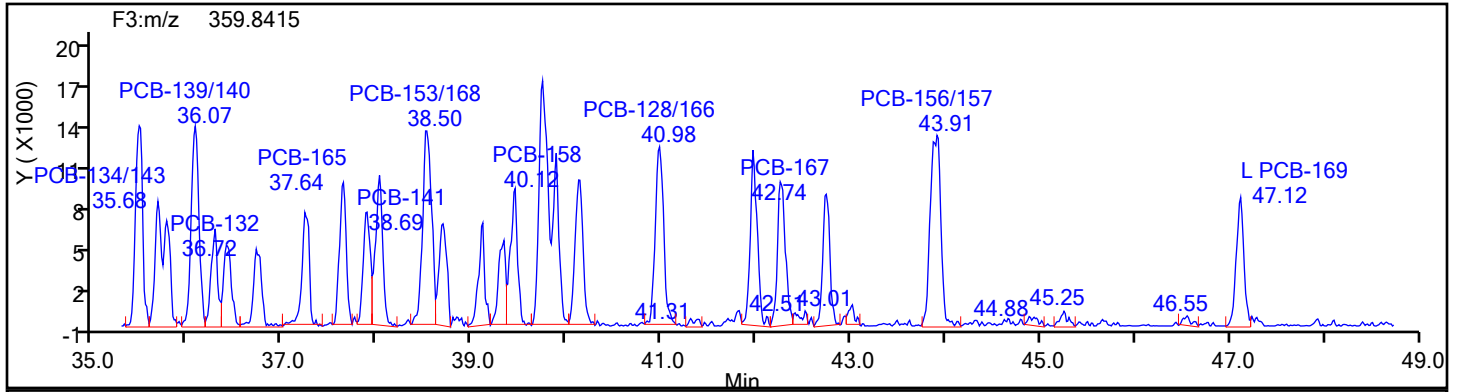
Worklist#: 87130

Sample Line#: 2

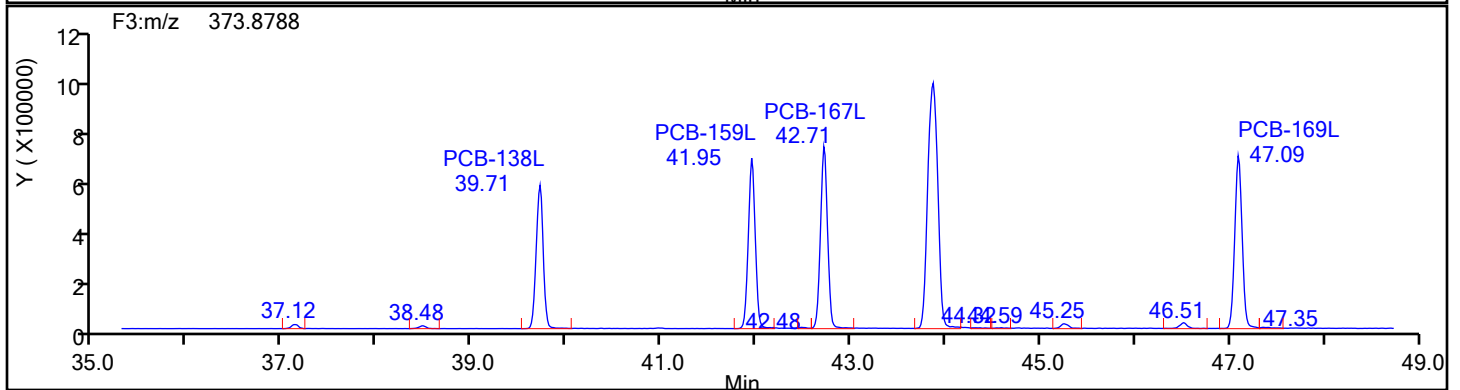
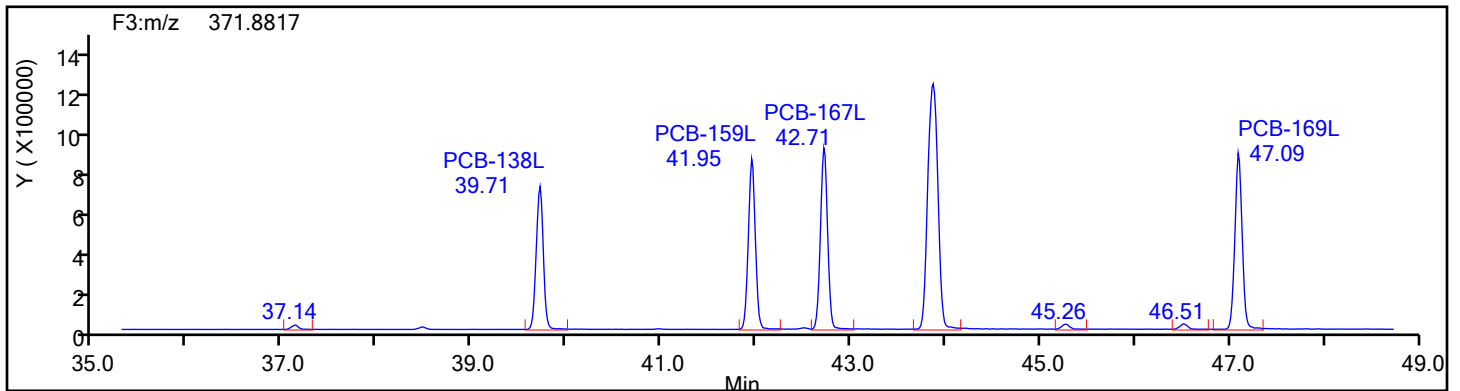
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

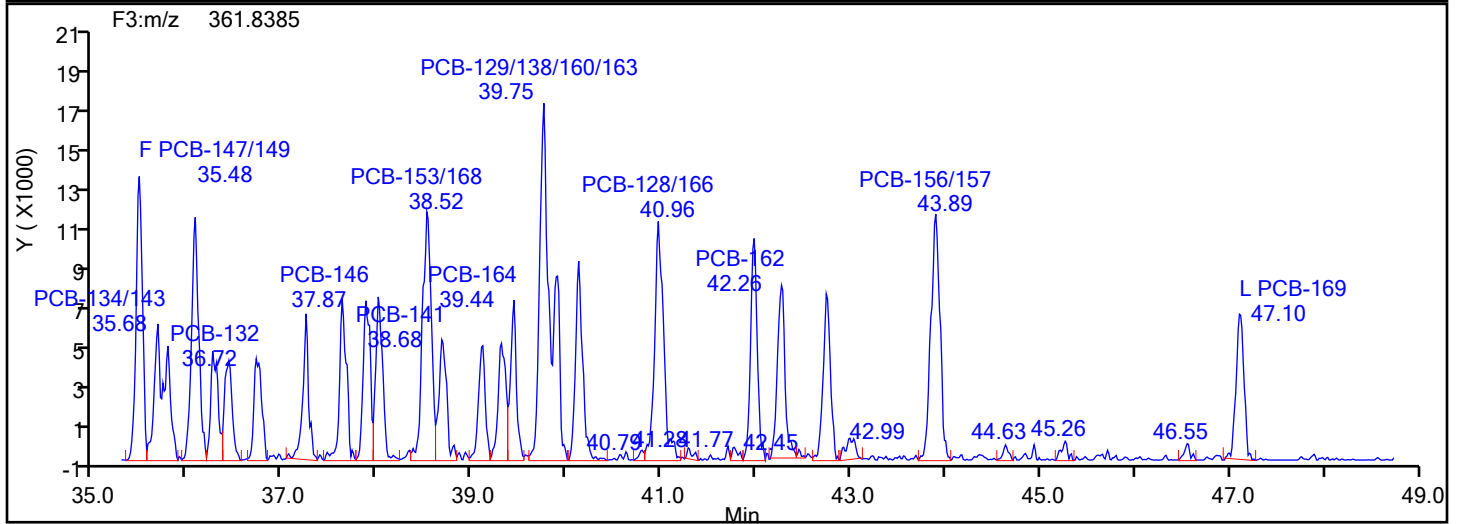
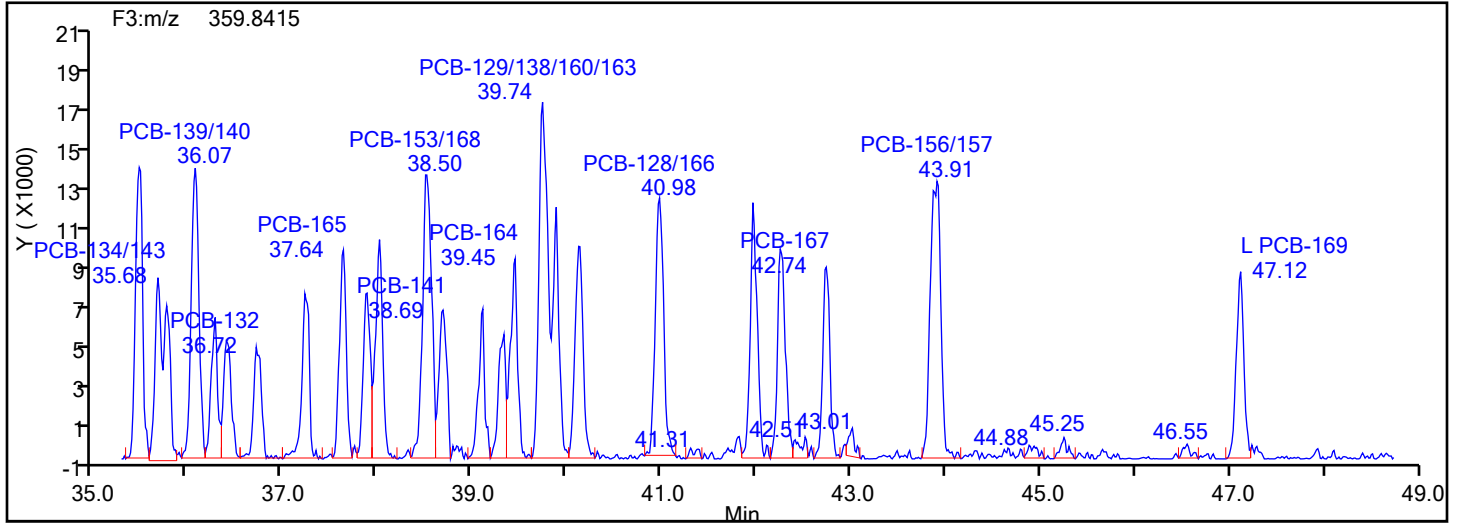
Worklist#: 87130

Sample Line#: 2

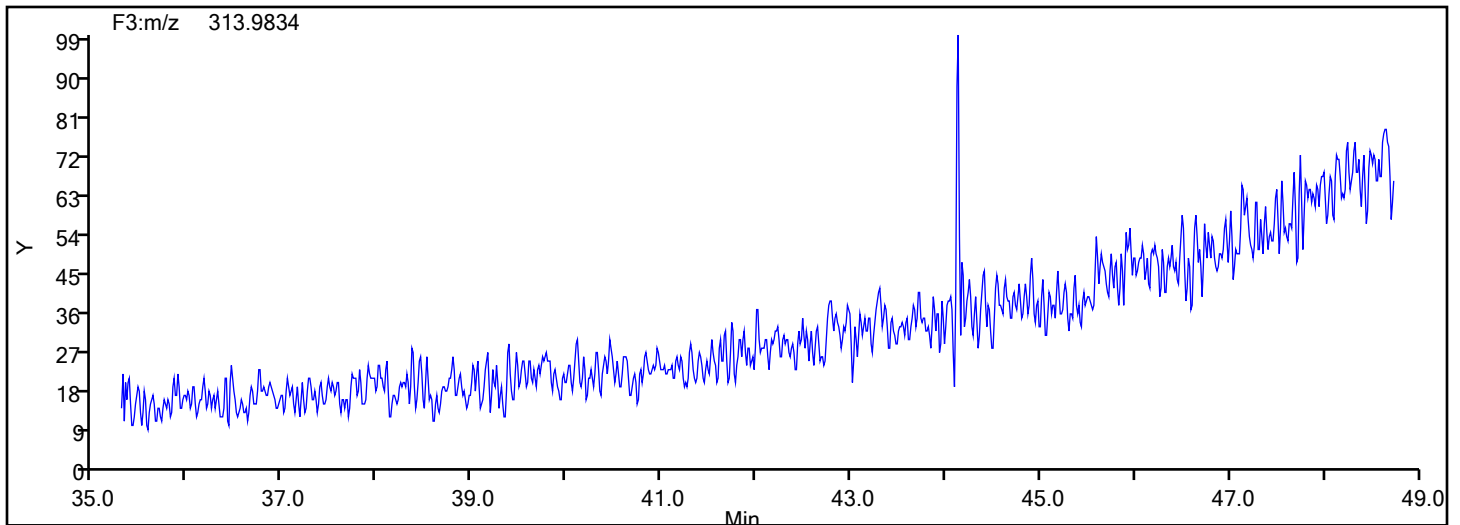
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

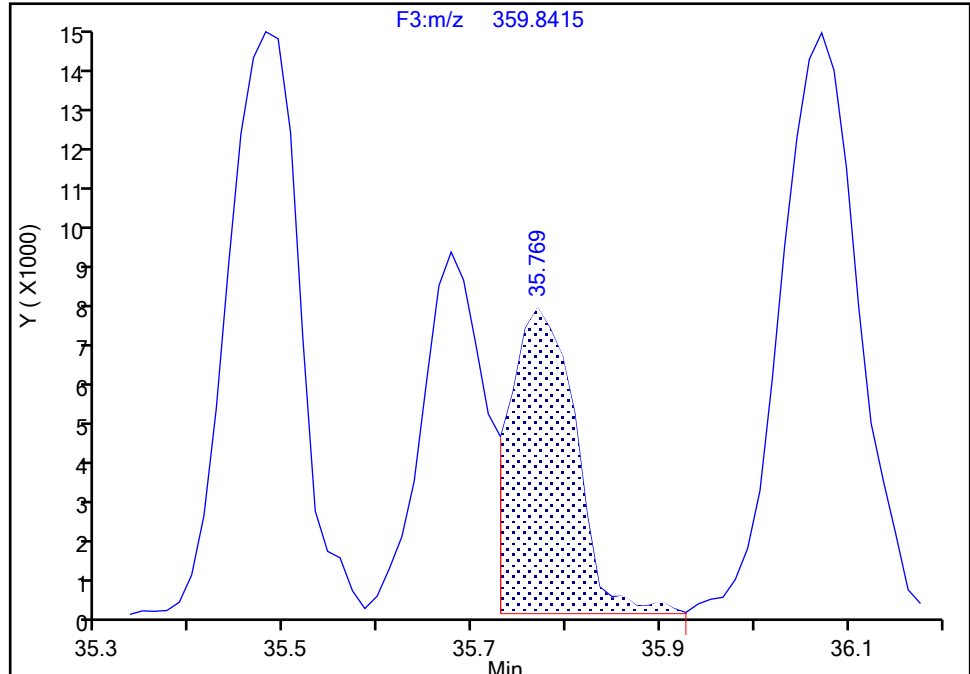
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-134/143, CAS: STL01818

Signal: 1

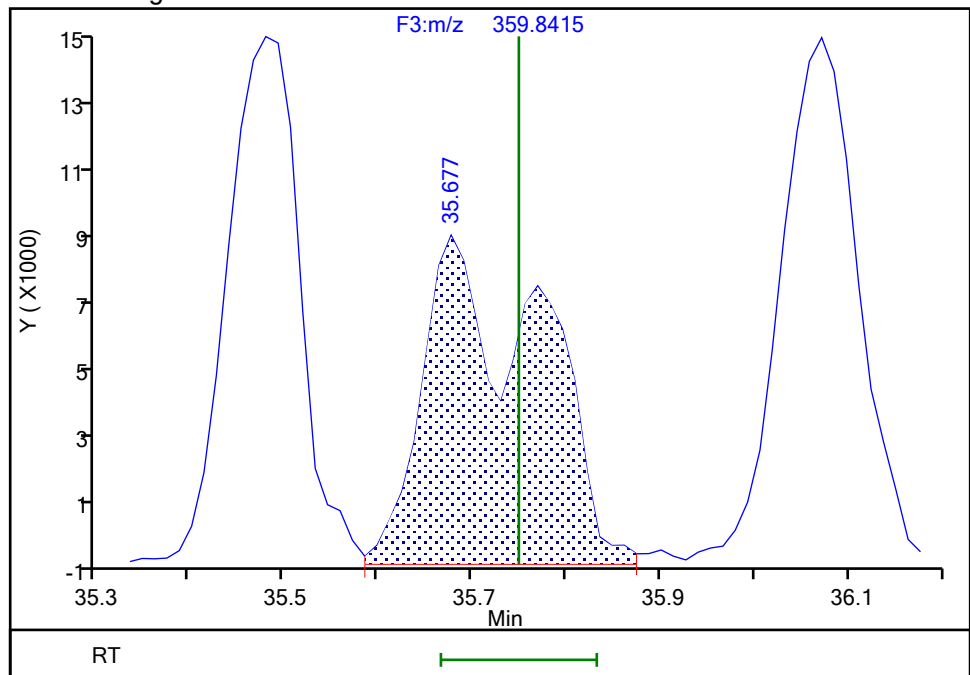
RT: 35.77
Area: 35338
Amount: 1.102163
Amount Units: pg/ul

Processing Integration Results



RT: 35.68
Area: 75510
Amount: 2.011887
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:38:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

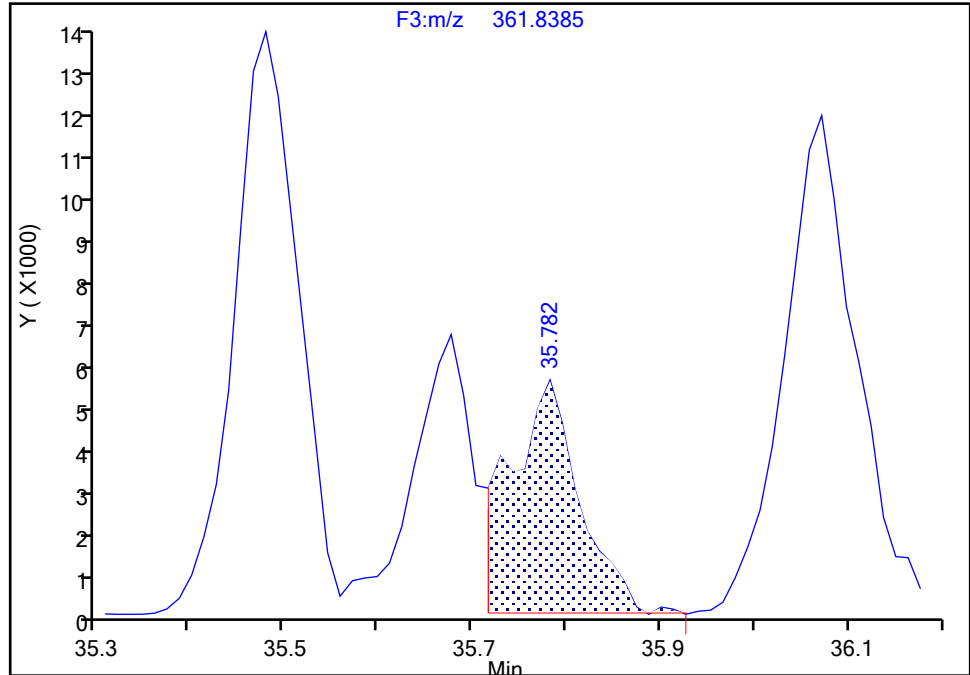
F3(35.64 :49.10)

PCB-134/143, CAS: STL01818

Signal: 2

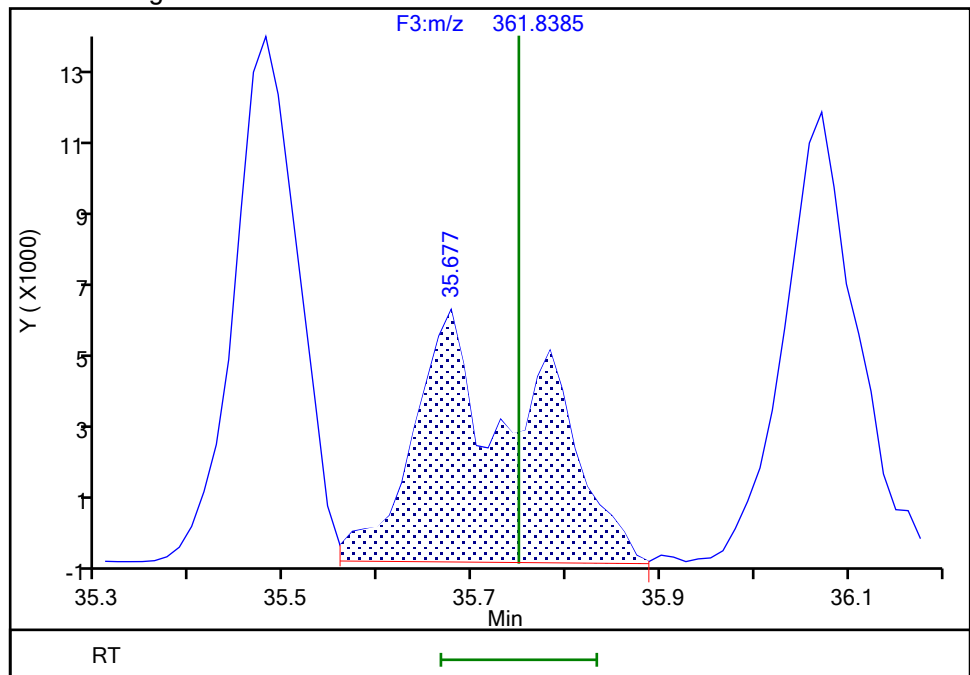
RT: 35.78
Area: 27425
Amount: 1.102163
Amount Units: pg/ul

Processing Integration Results



RT: 35.68
Area: 55371
Amount: 2.011887
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:38:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-012204-3279

9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

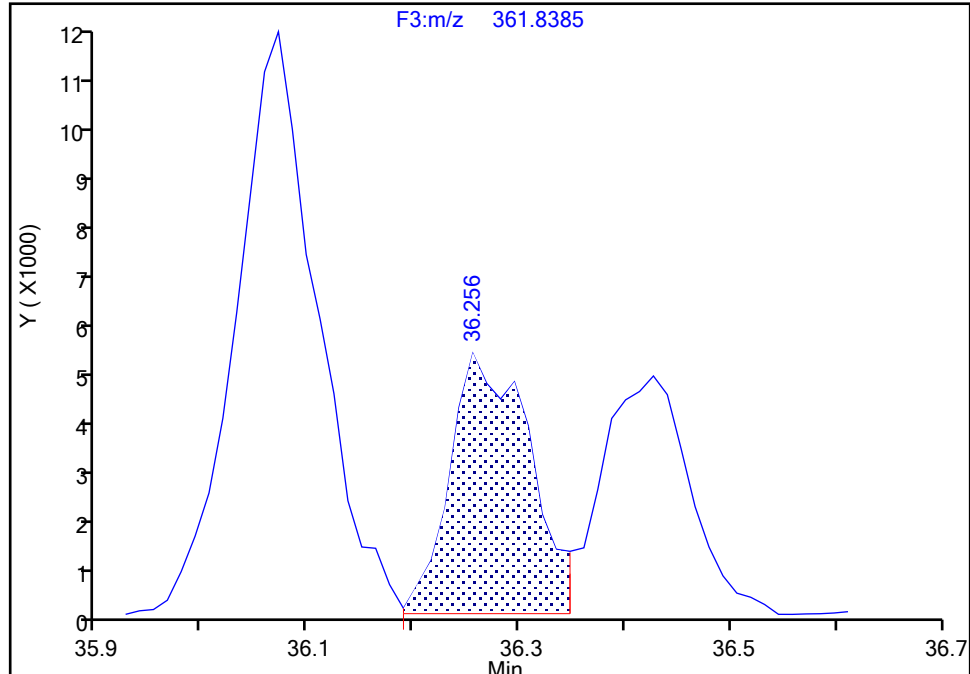
Detector F3(35.64 :49.10)

PCB-131, CAS: 61798-70-7

Signal: 2

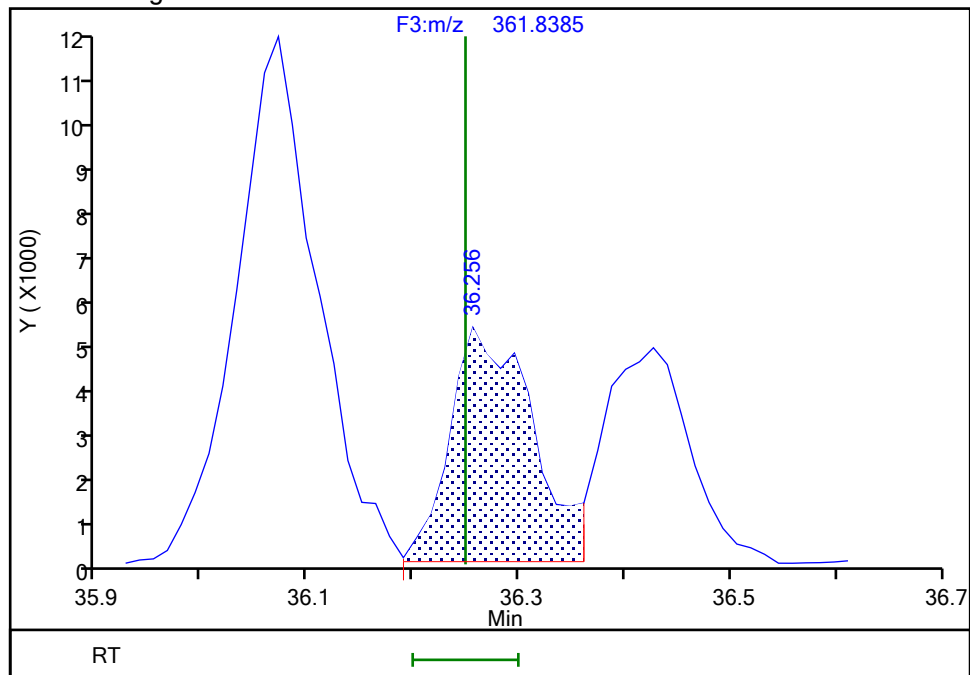
RT: 36.26
Area: 26689
Amount: 0.932978
Amount Units: pg/ul

Processing Integration Results



RT: 36.26
Area: 27457
Amount: 0.984032
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:35:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

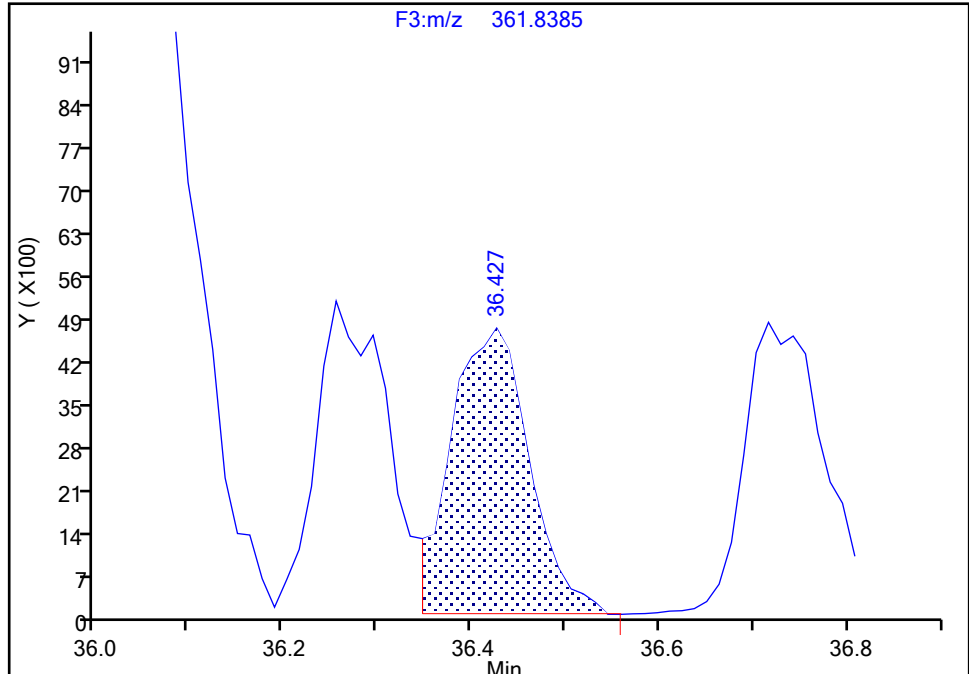
Detector F3(35.64 :49.10)

PCB-142, CAS: 41411-61-4

Signal: 2

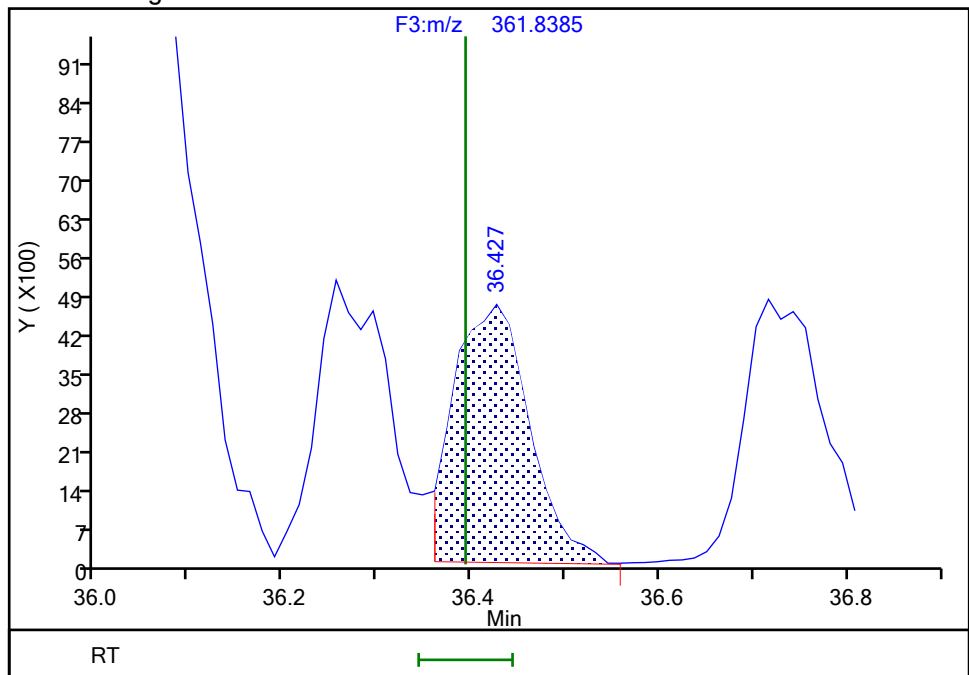
RT: 36.43
Area: 27005
Amount: 0.967785
Amount Units: pg/ul

Processing Integration Results



RT: 36.43
Area: 25865
Amount: 0.956909
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:35:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

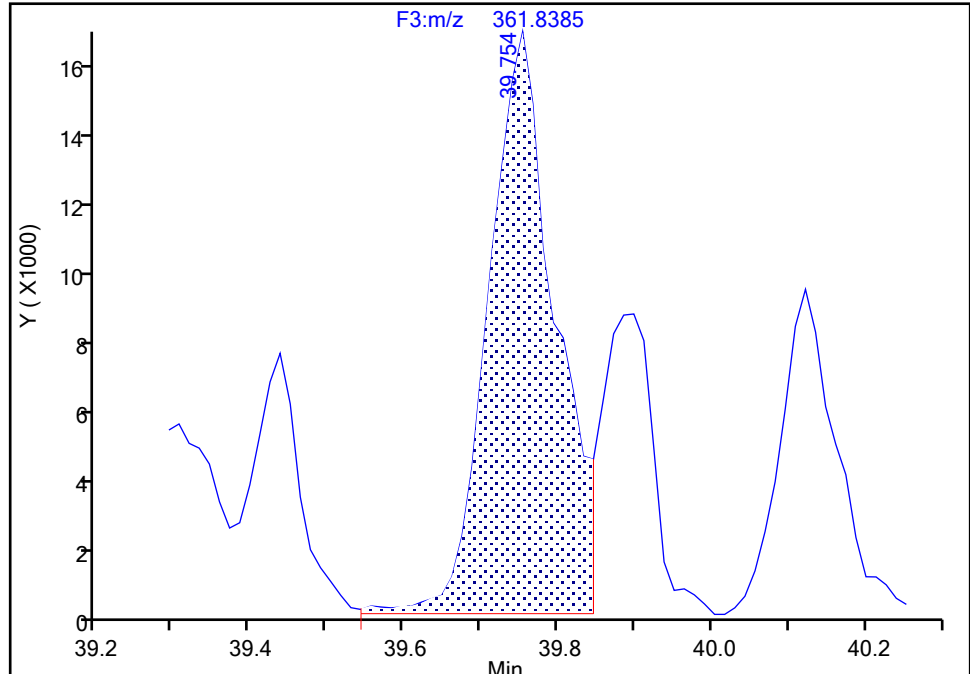
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

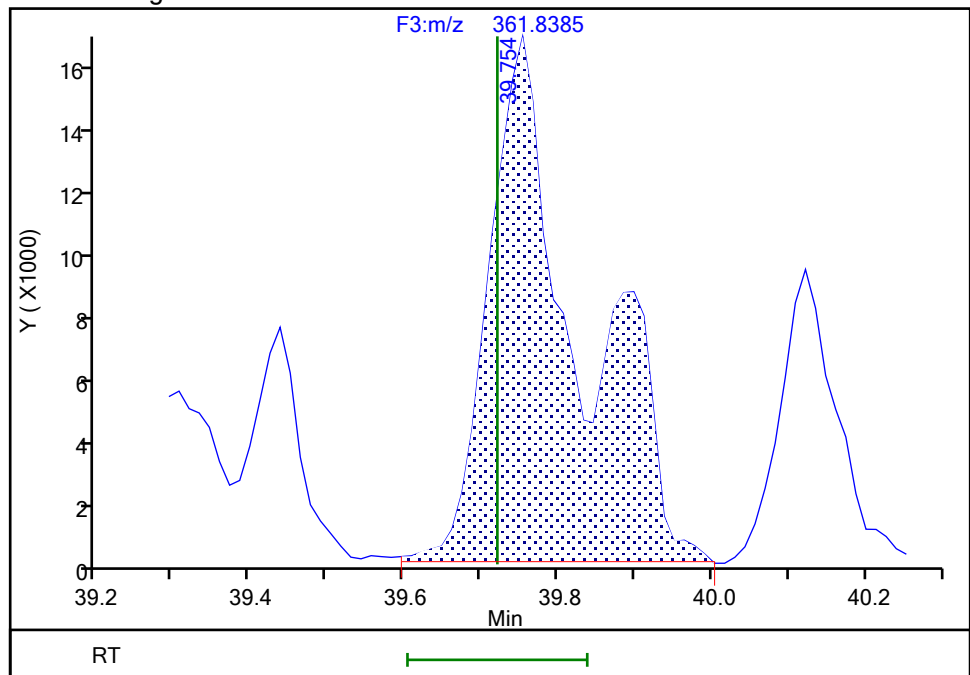
RT: 39.75
Area: 101326
Amount: 3.651293
Amount Units: pg/ul

Processing Integration Results



RT: 39.75
Area: 139822
Amount: 3.921772
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:39:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

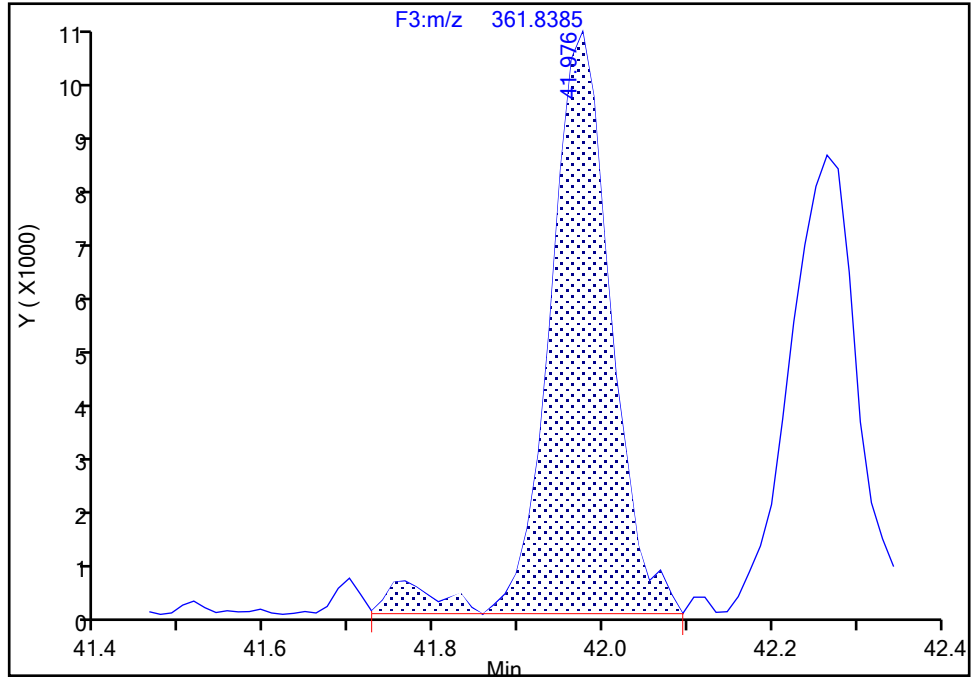
Detector F3(35.64 :49.10)

PCB-159, CAS: 39635-35-3

Signal: 2

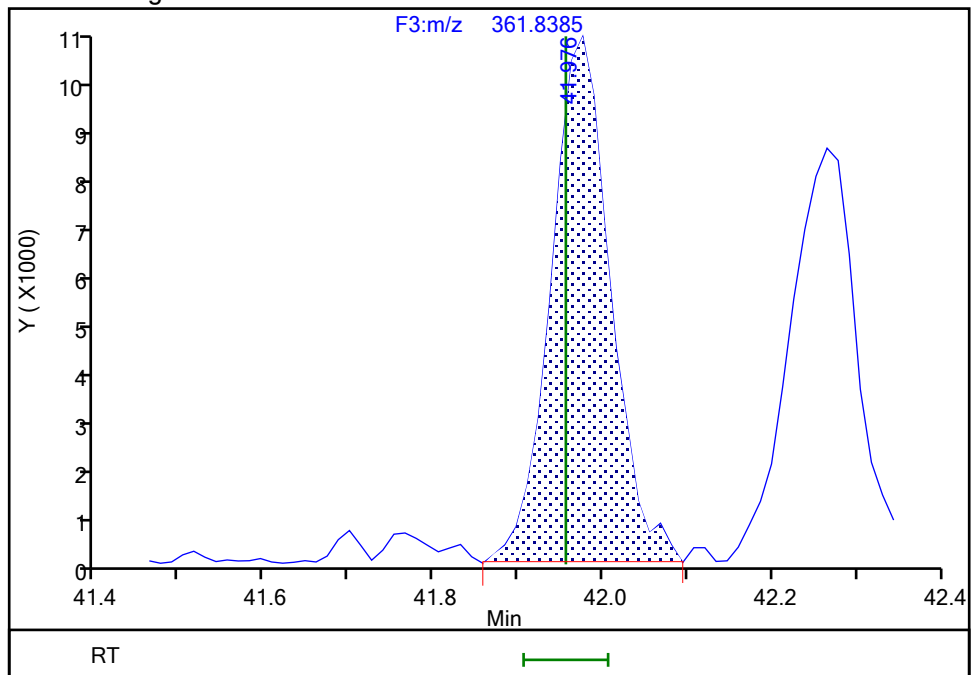
RT: 41.98
Area: 53701
Amount: 1.044933
Amount Units: pg/ul

Processing Integration Results



RT: 41.98
Area: 51172
Amount: 1.015050
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:39:28 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

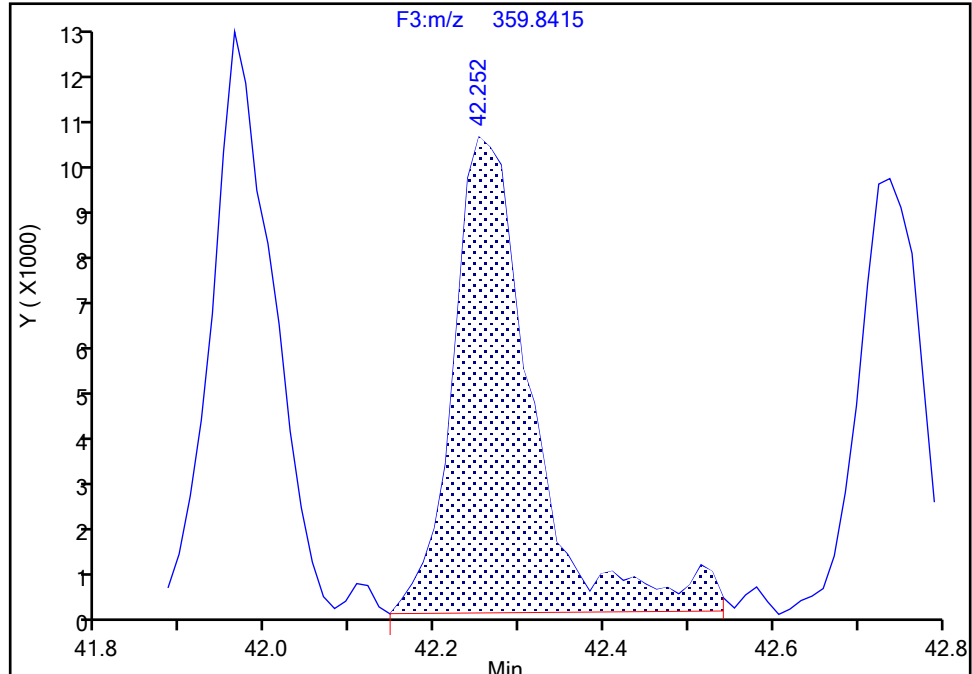
Detector F3(35.64 :49.10)

PCB-162, CAS: 39635-34-2

Signal: 1

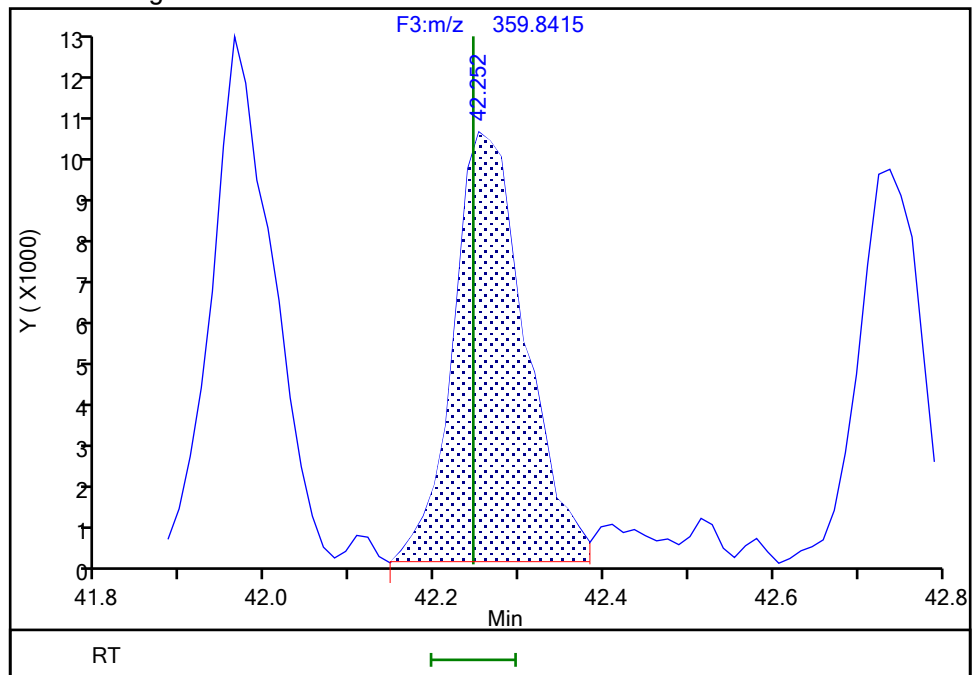
RT: 42.25
Area: 65718
Amount: 1.114273
Amount Units: pg/ul

Processing Integration Results



RT: 42.25
Area: 59673
Amount: 1.039801
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:39:43 -04:00:00 (UTC)

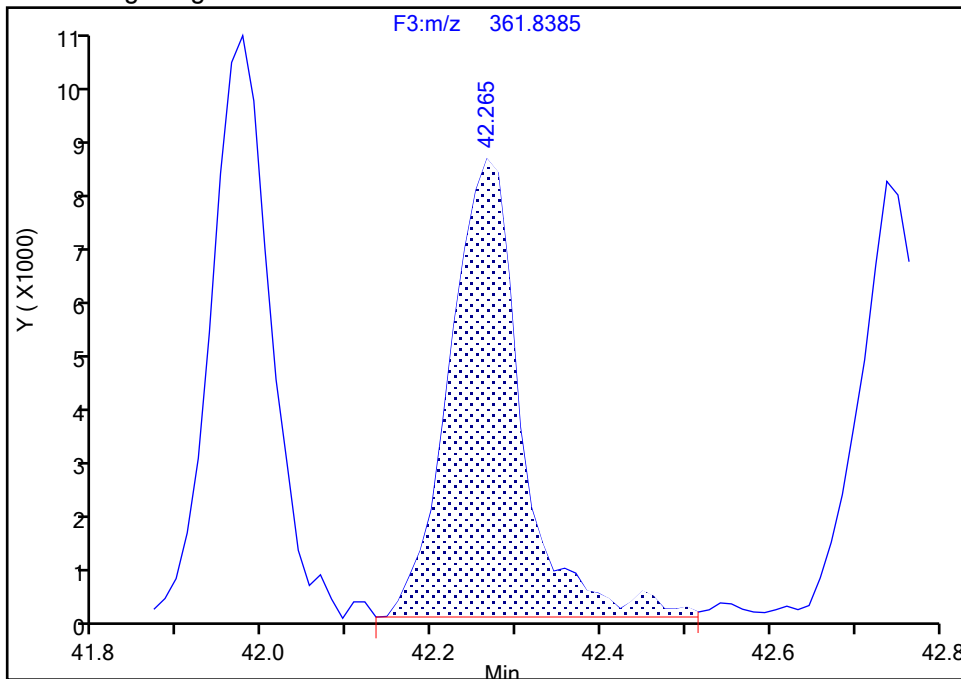
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

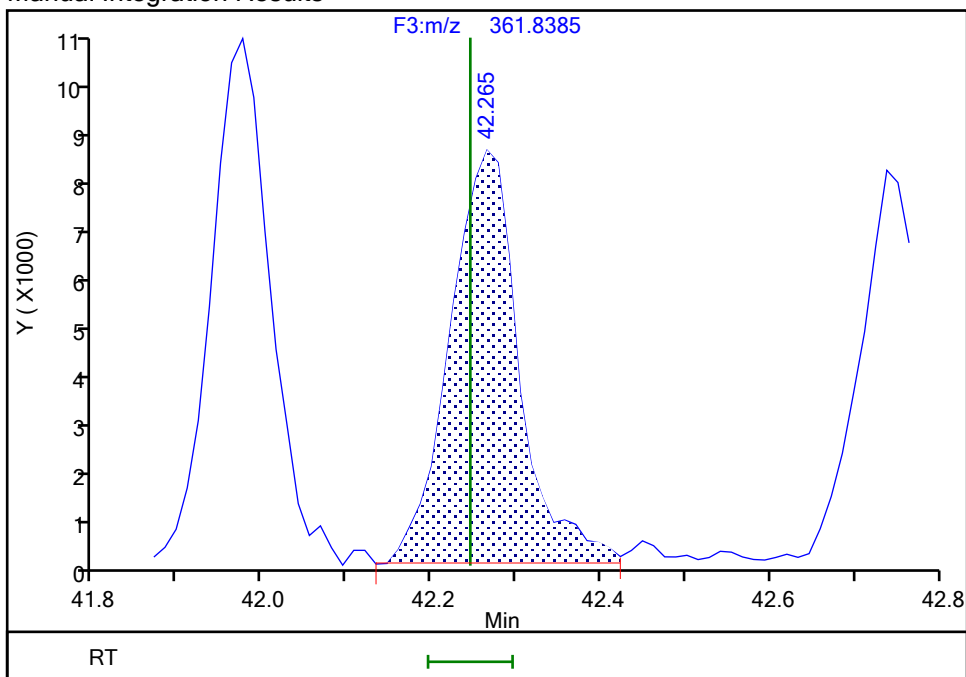
Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d				
Injection Date:	31-May-2024 16:53:00	Instrument ID:	D2D		
Lims ID:	IC L2				
Client ID:					
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl (0.25 mm)	Detector	F3(35.64 :49.10)		

Signal: 2

RT: 42.26
Area: 48379
Amount: 1.114273
Amount Units: pg/ul



RT: 42.26
Area: 47062
Amount: 1.039801
Amount Units: pg/ul



Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

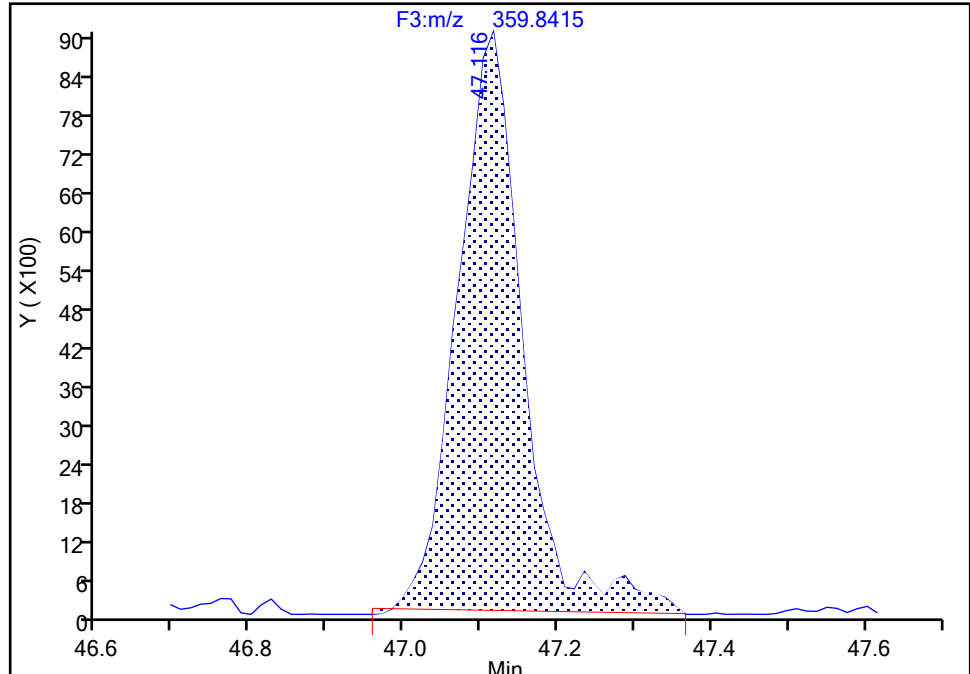
Detector F3(35.64 :49.10)

PCB-169, CAS: 32774-16-6

Signal: 1

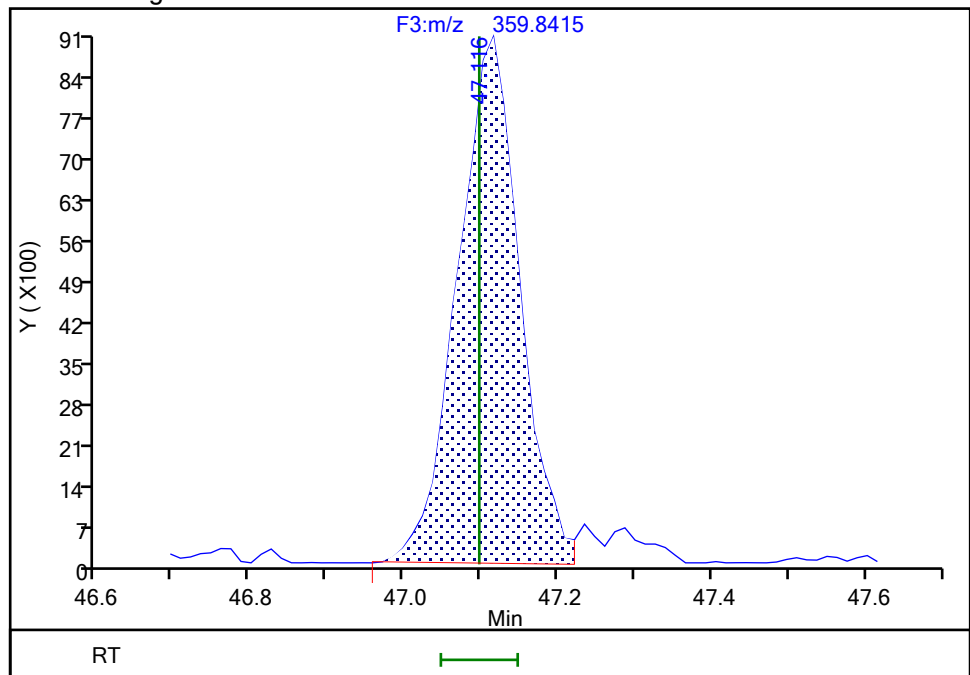
RT: 47.12
Area: 52919
Amount: 0.942481
Amount Units: pg/ul

Processing Integration Results



RT: 47.12
Area: 50749
Amount: 0.953752
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:40:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

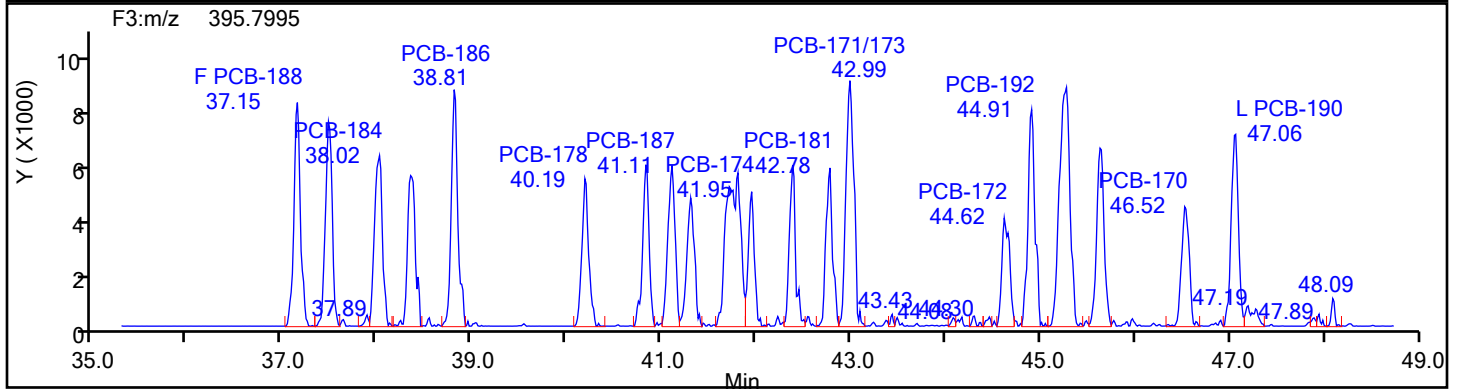
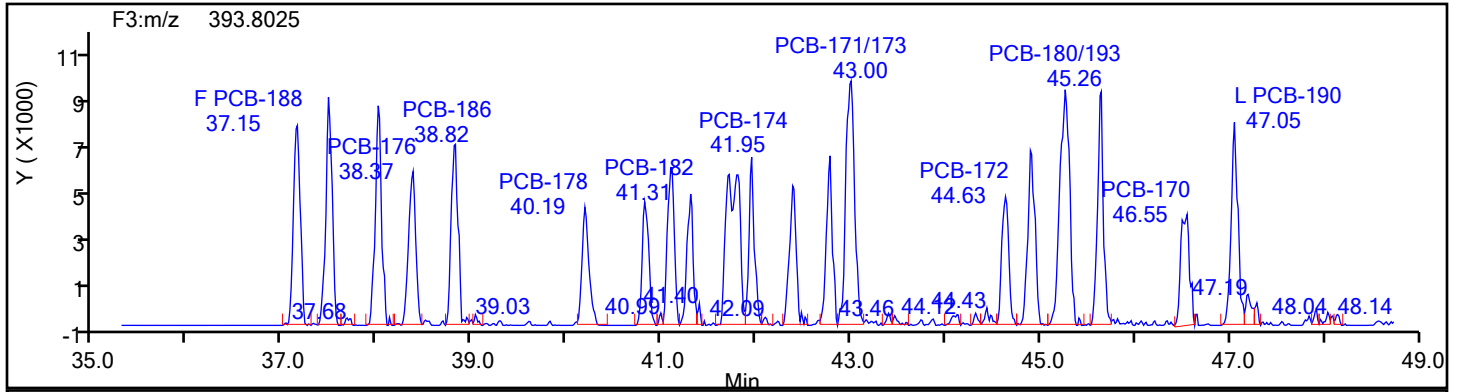
Worklist#: 87130

Sample Line#: 2

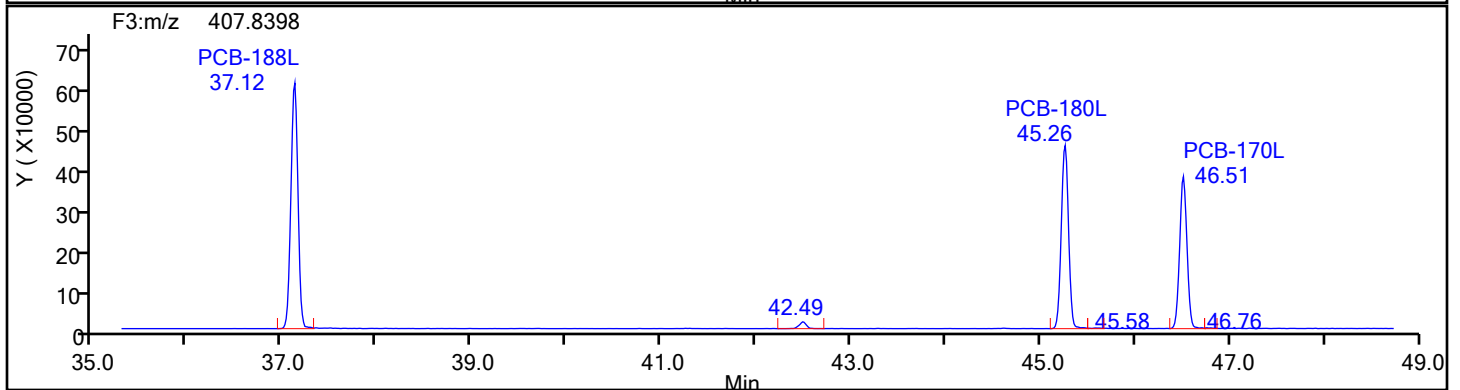
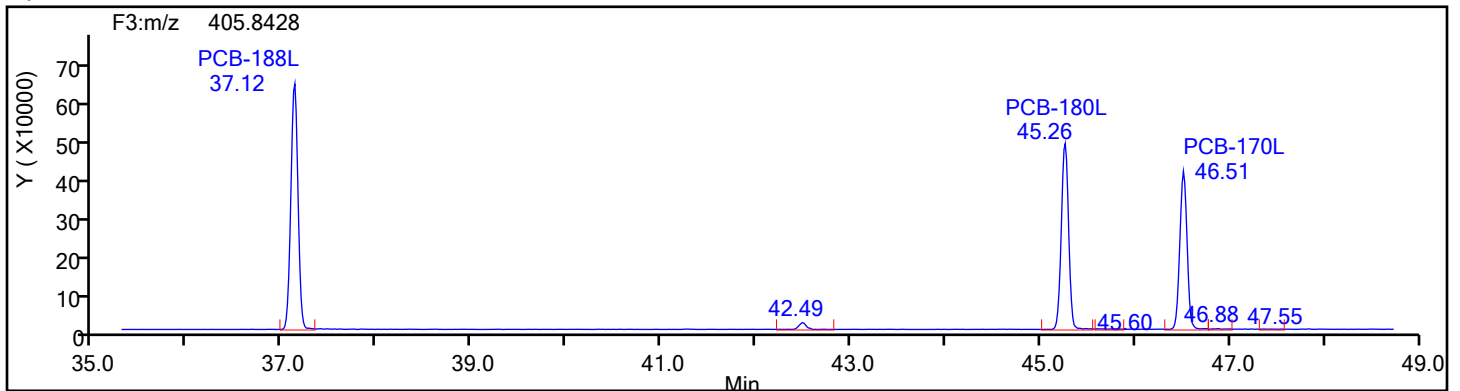
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

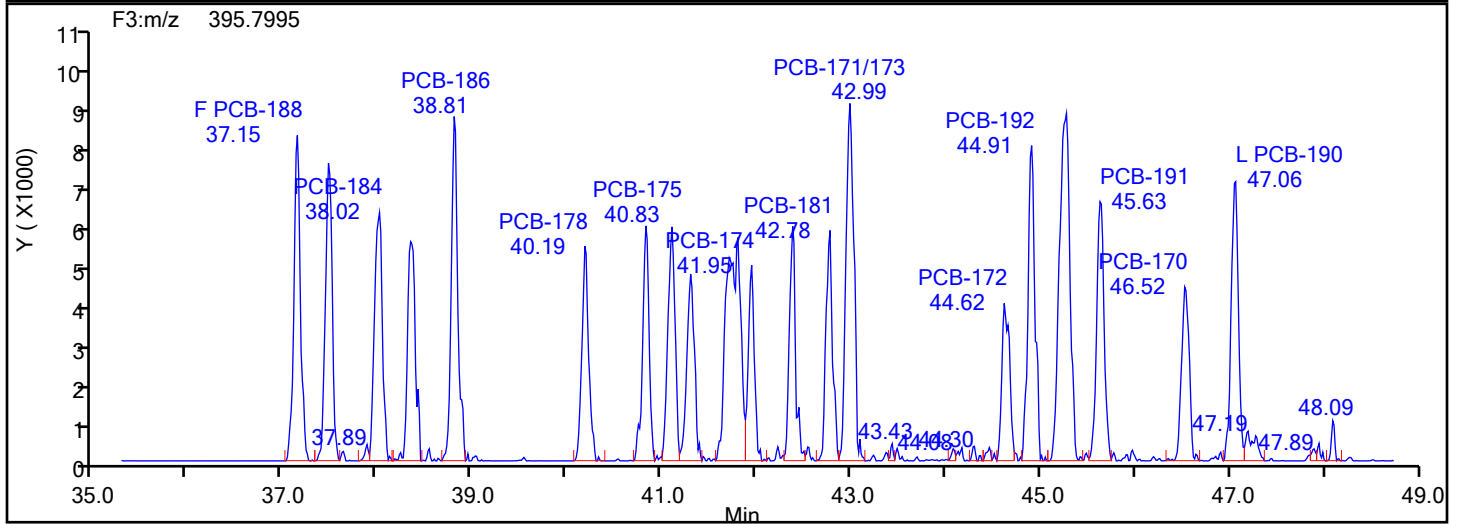
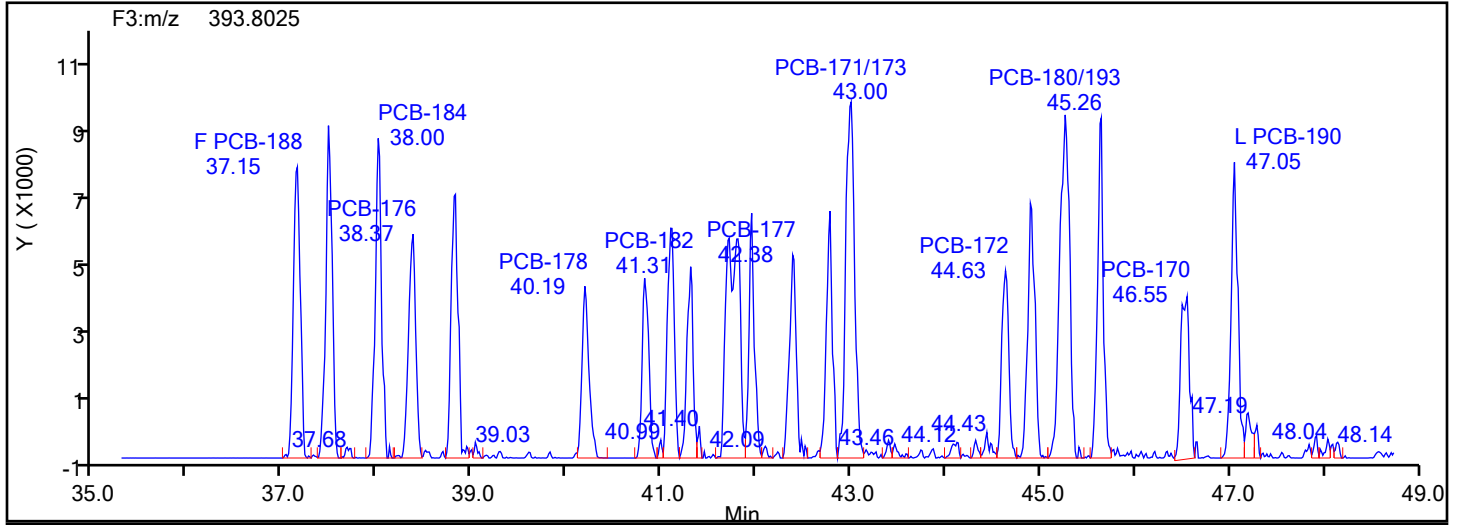
Worklist#: 87130

Sample Line#: 2

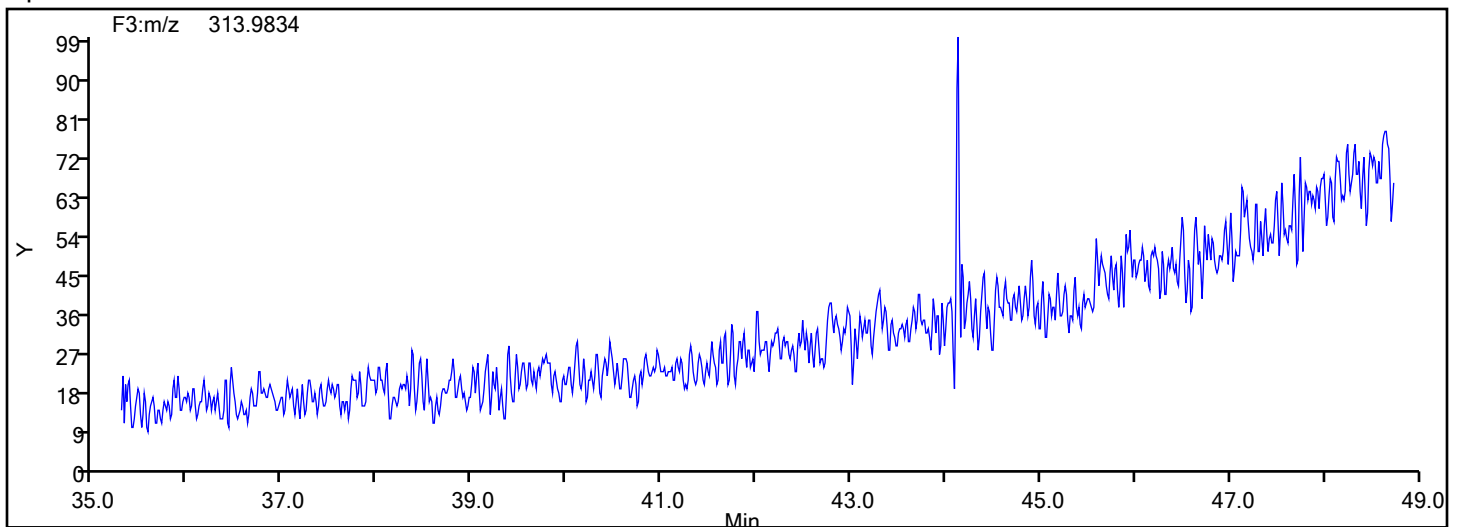
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

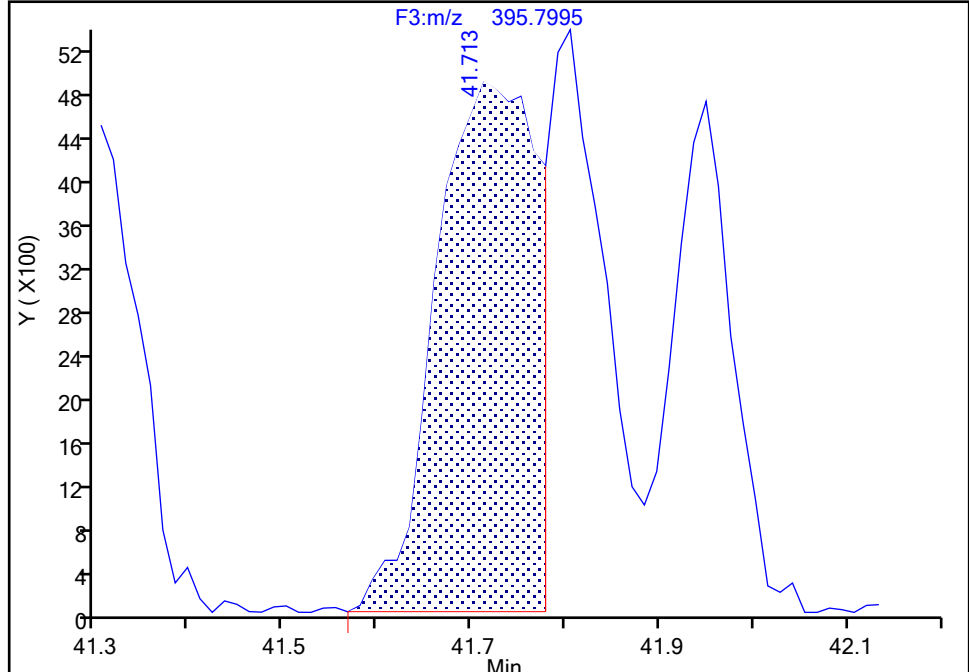
Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

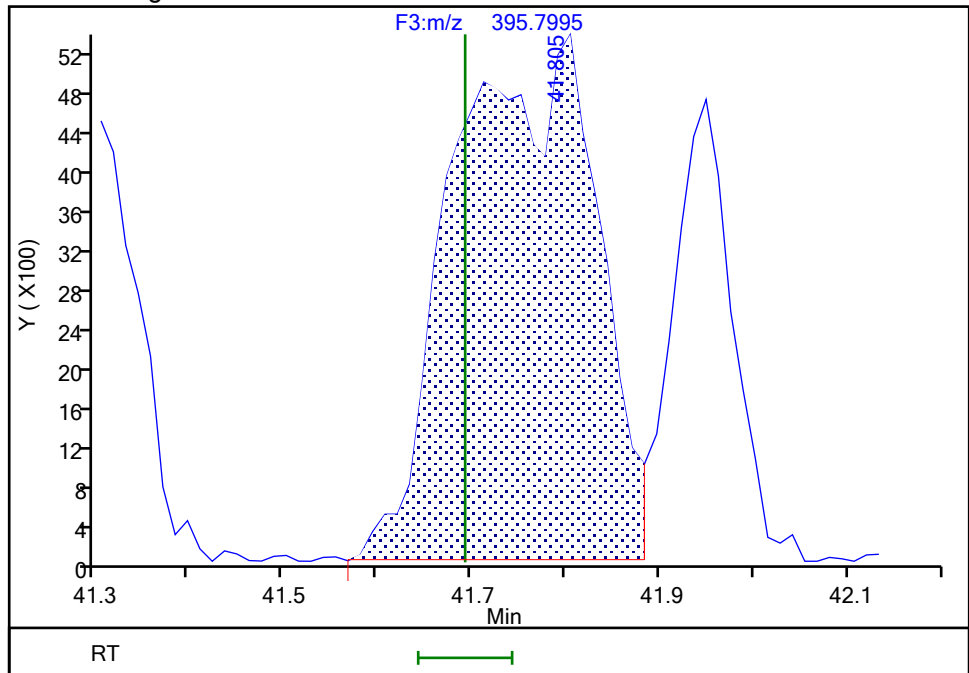
RT: 41.71
Area: 35572
Amount: 1.894030
Amount Units: pg/ul

Processing Integration Results



RT: 41.81
Area: 56781
Amount: 2.172586
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:40:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

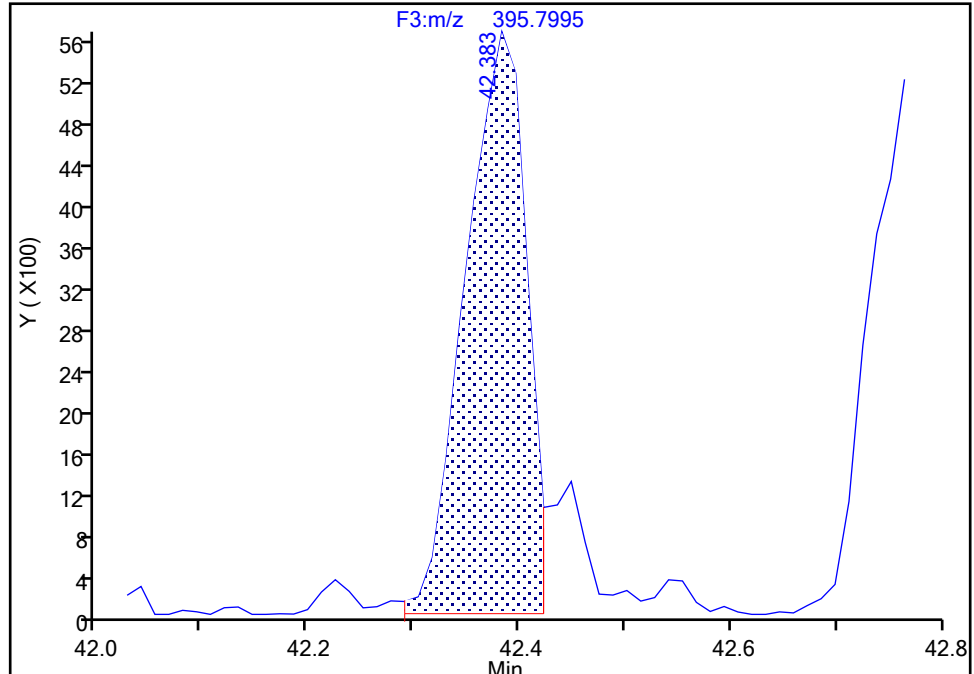
Detector F3(35.64 :49.10)

PCB-177, CAS: 52663-70-4

Signal: 2

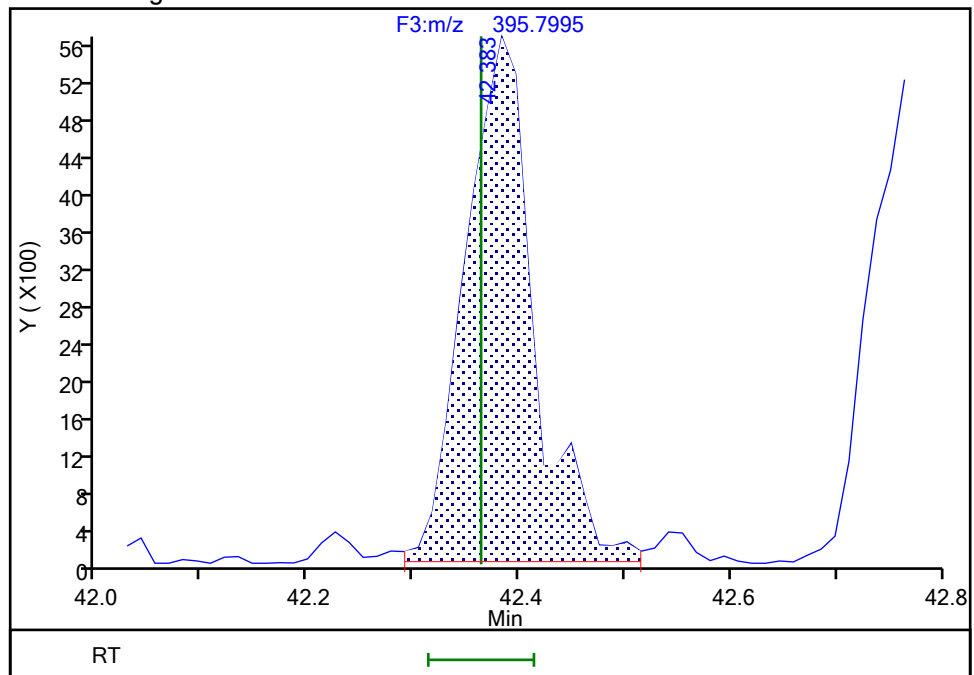
RT: 42.38
Area: 22341
Amount: 0.948456
Amount Units: pg/ul

Processing Integration Results



RT: 42.38
Area: 25600
Amount: 1.006154
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:41:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

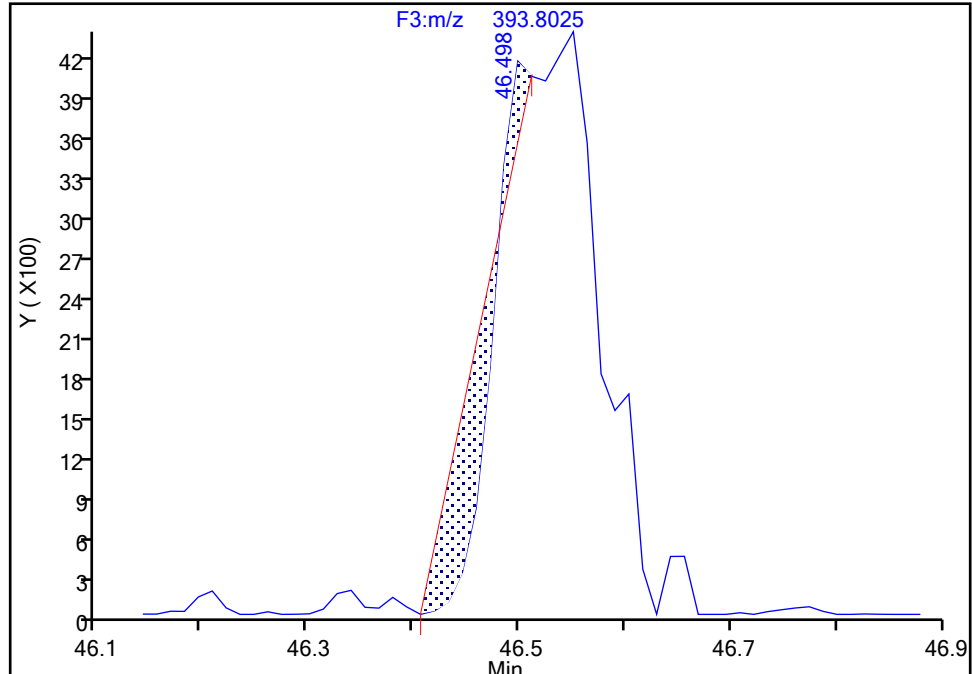
Detector F3(35.64 :49.10)

PCB-170, CAS: 35065-30-6

Signal: 1

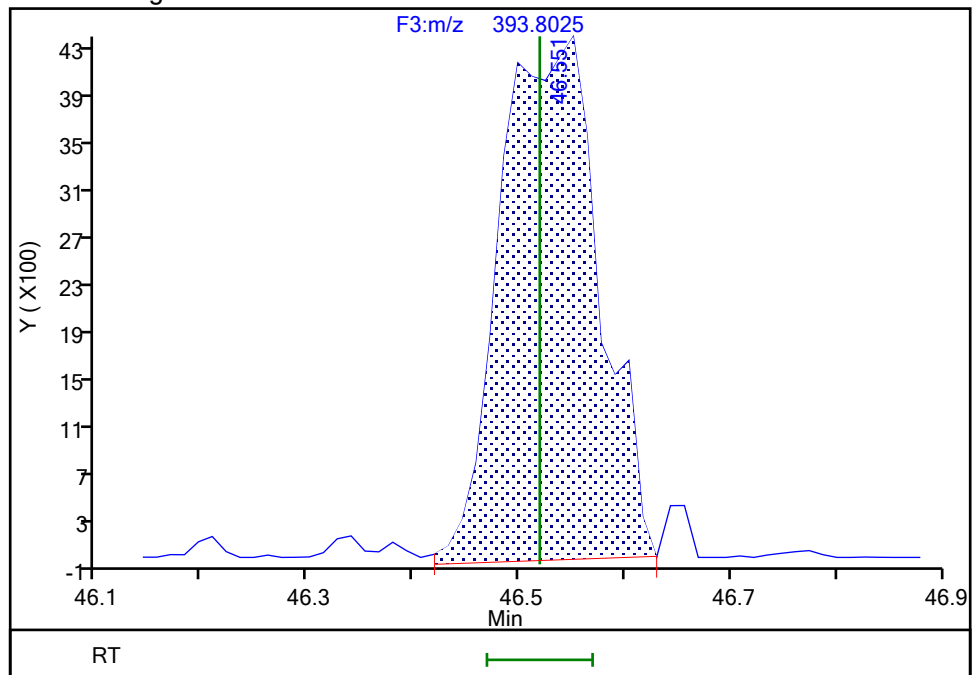
RT: 46.50
Area: 2737
Amount: 0.589206
Amount Units: pg/ul

Processing Integration Results



RT: 46.55
Area: 28044
Amount: 1.019913
Amount Units: pg/ul

Manual Integration Results



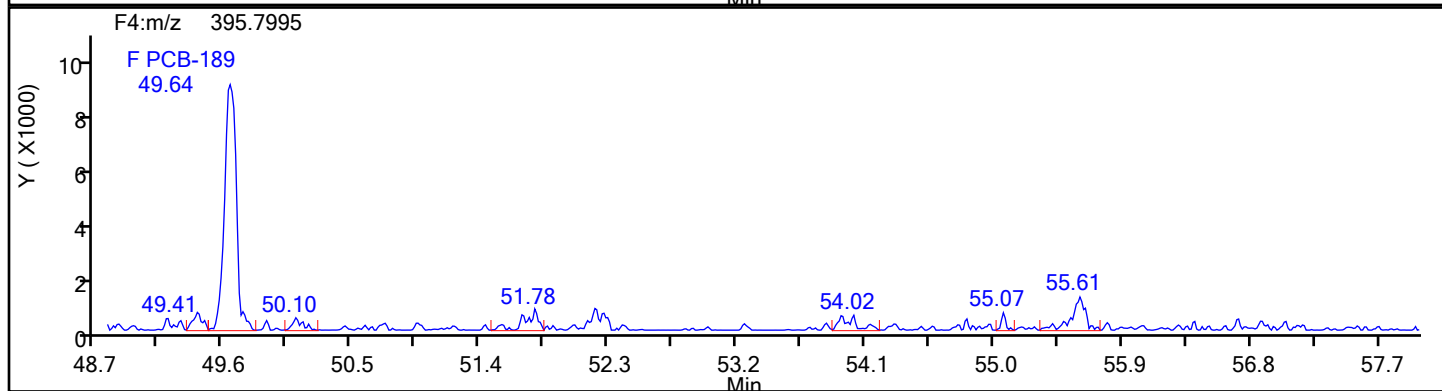
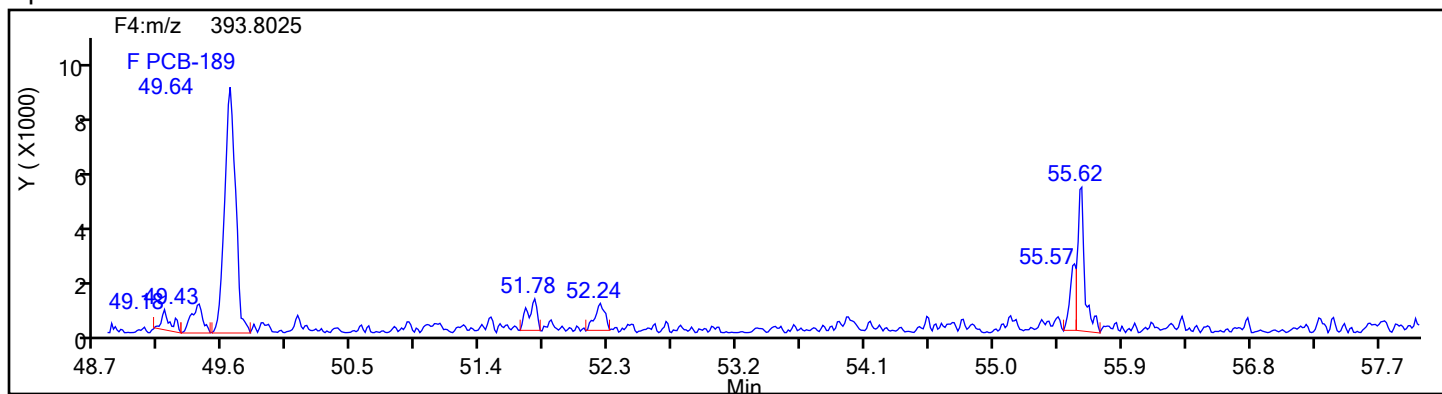
Reviewer: V4XA, 31-May-2024 19:40:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

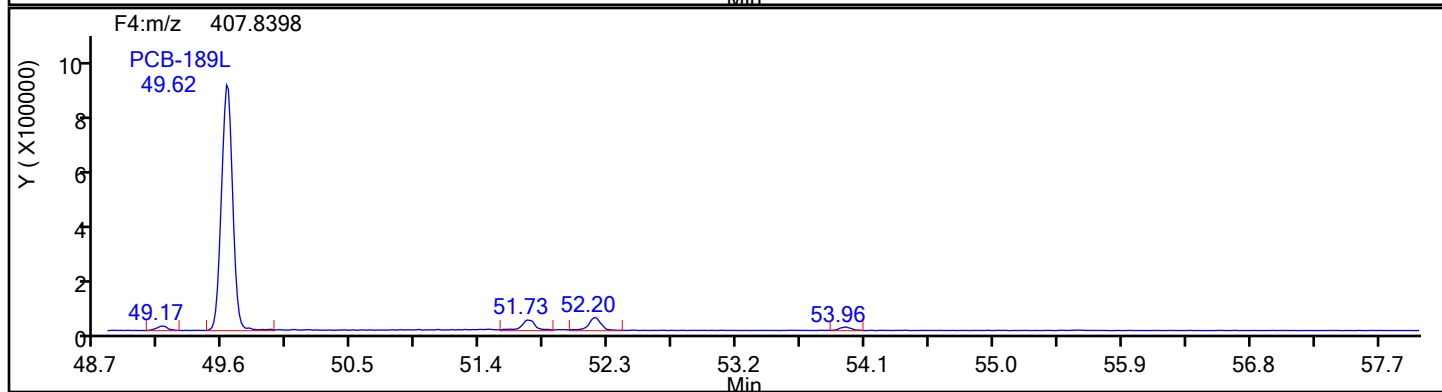
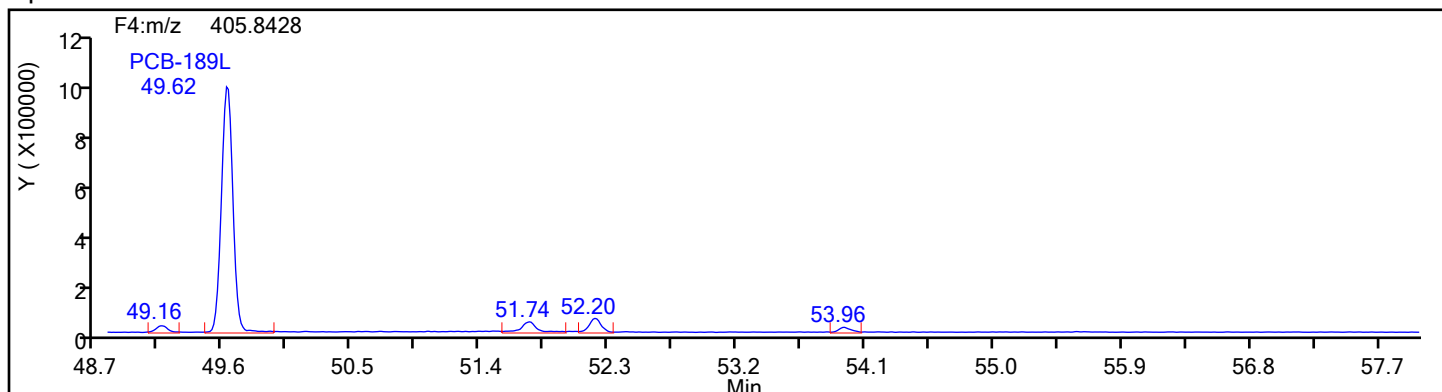
Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 2
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

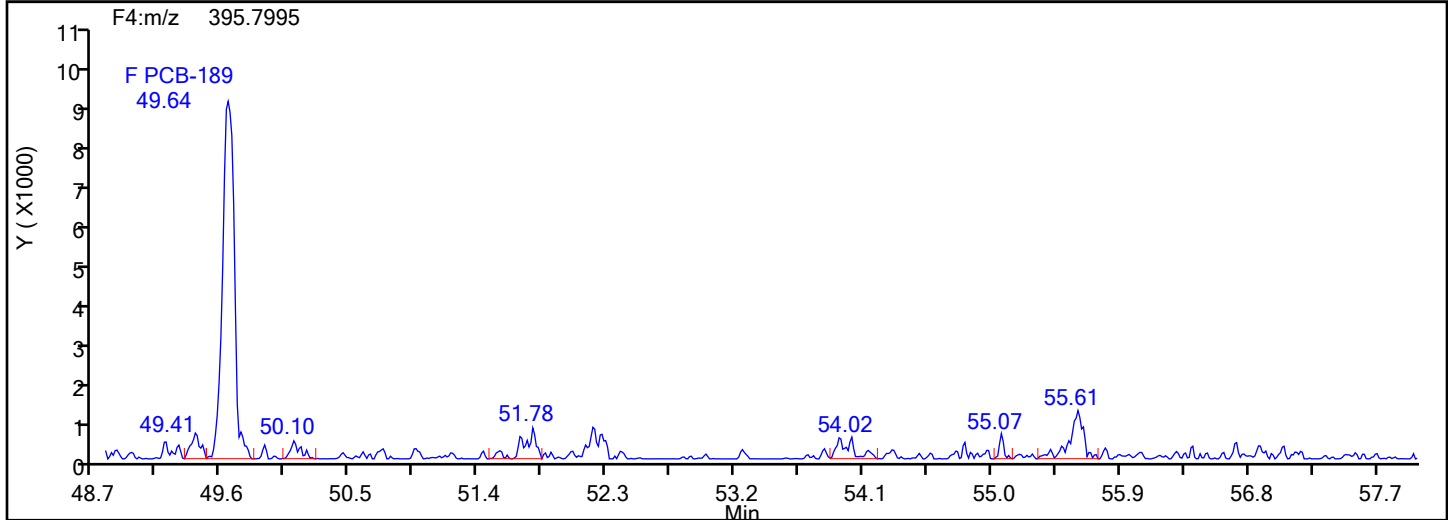
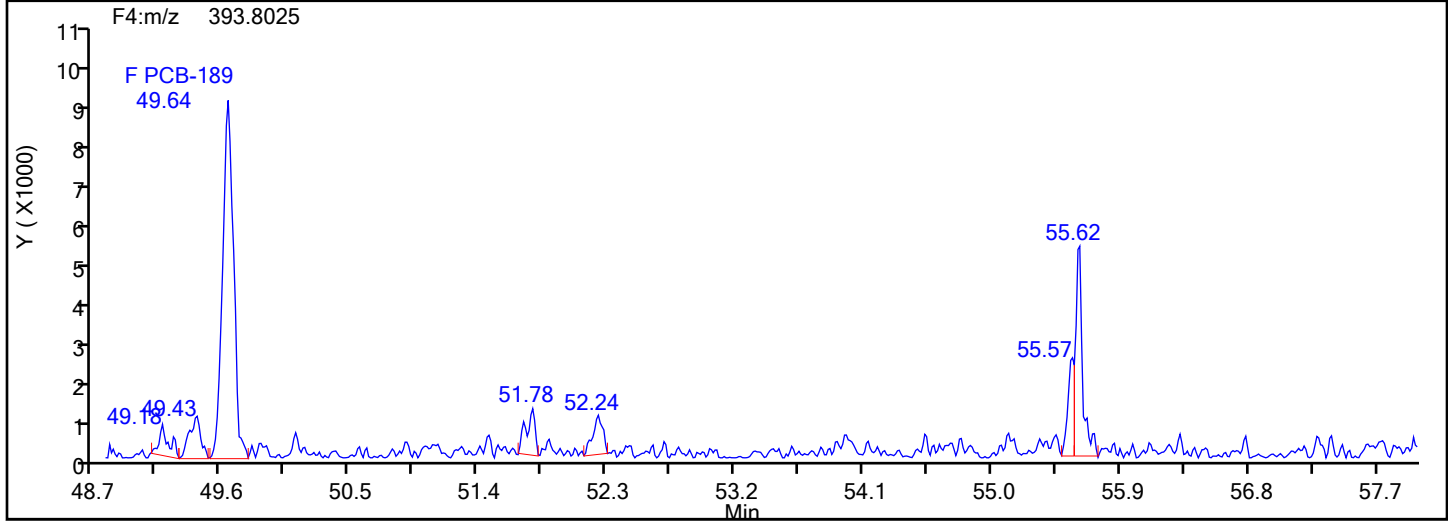
Worklist#: 87130

Sample Line#: 2

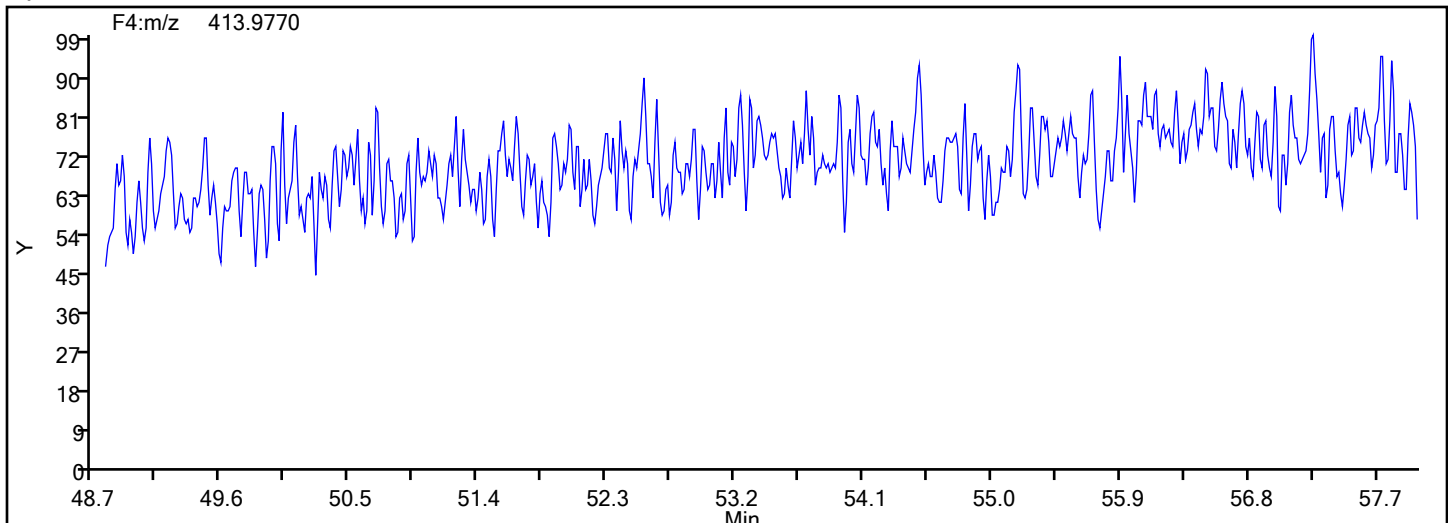
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4

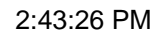


HpPCB F4 Lock Mass



Column Dia: 0.25 mm

Column Dia: 0.25 mm



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

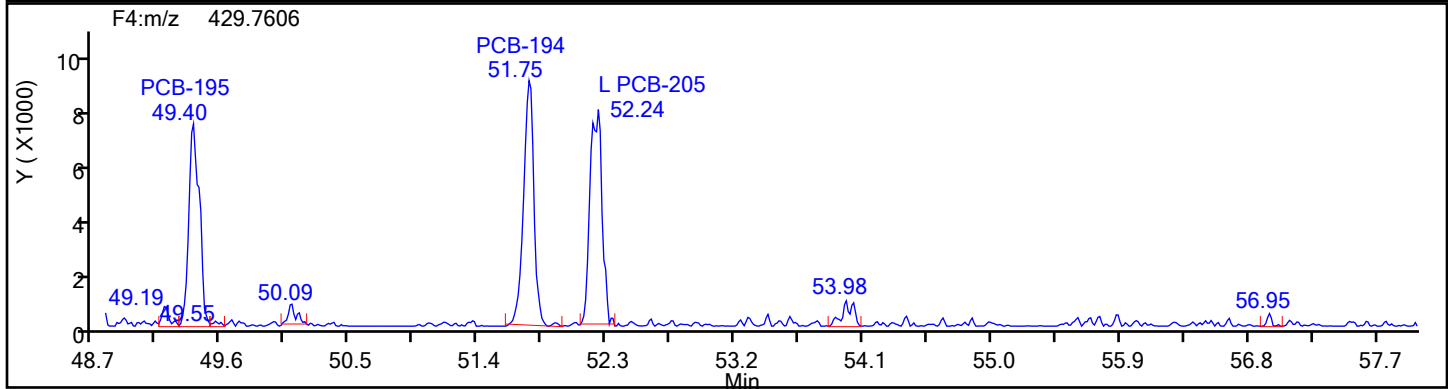
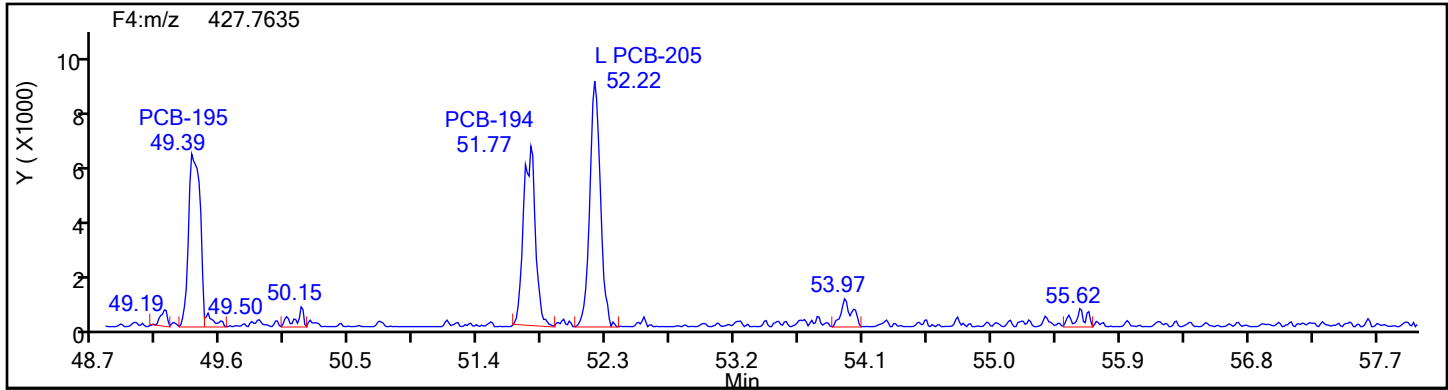
Worklist#: 87130

Sample Line#: 2

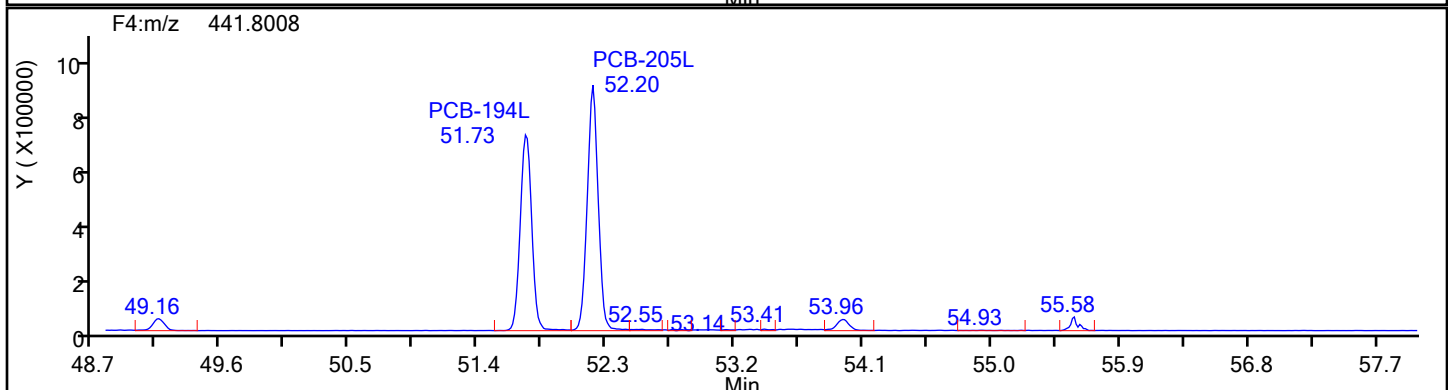
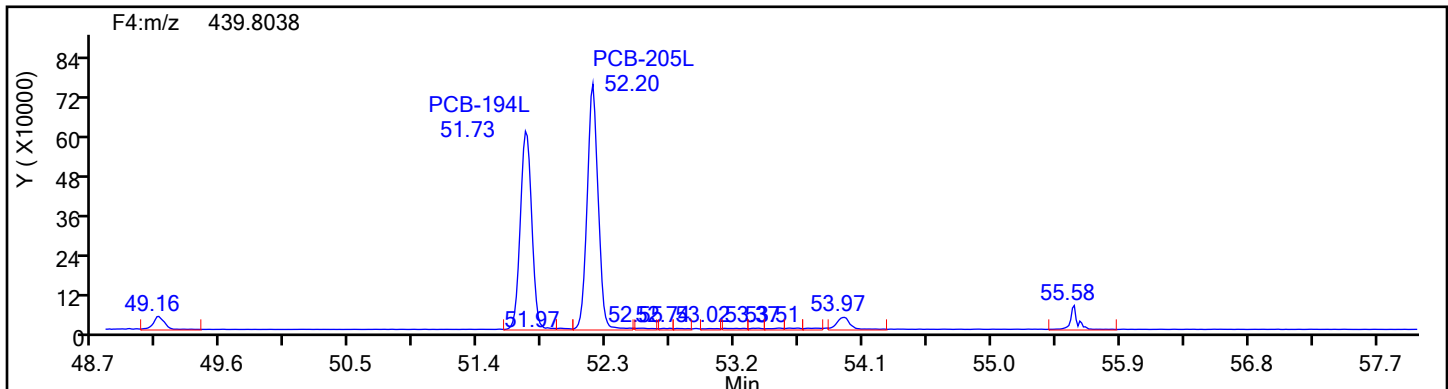
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

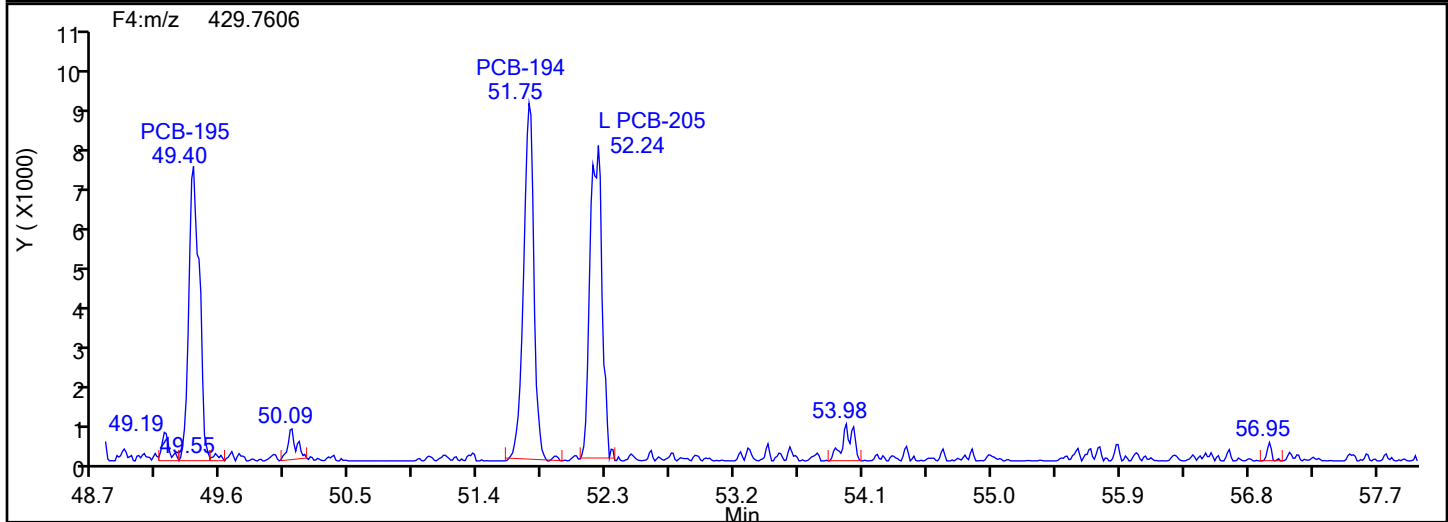
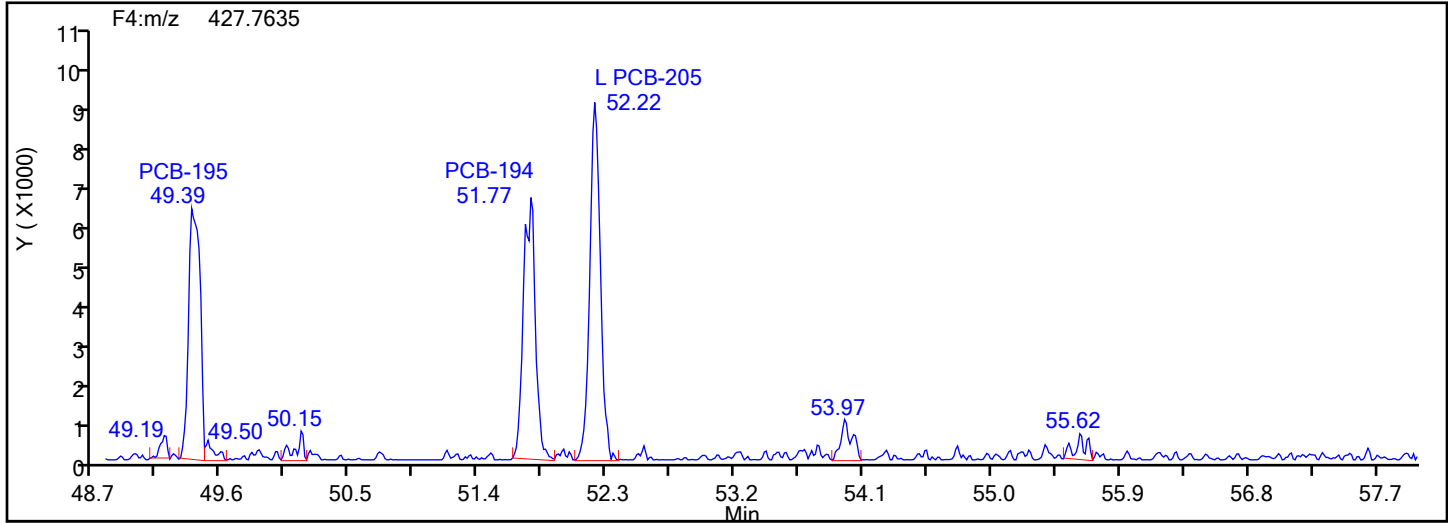
Worklist#: 87130

Sample Line#: 2

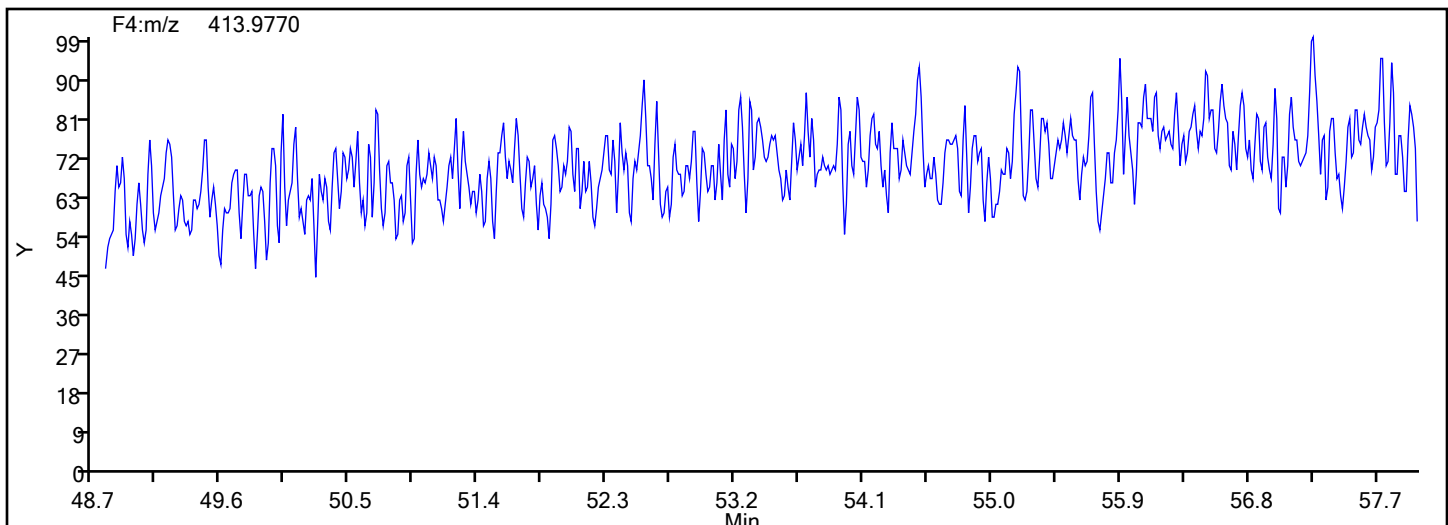
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

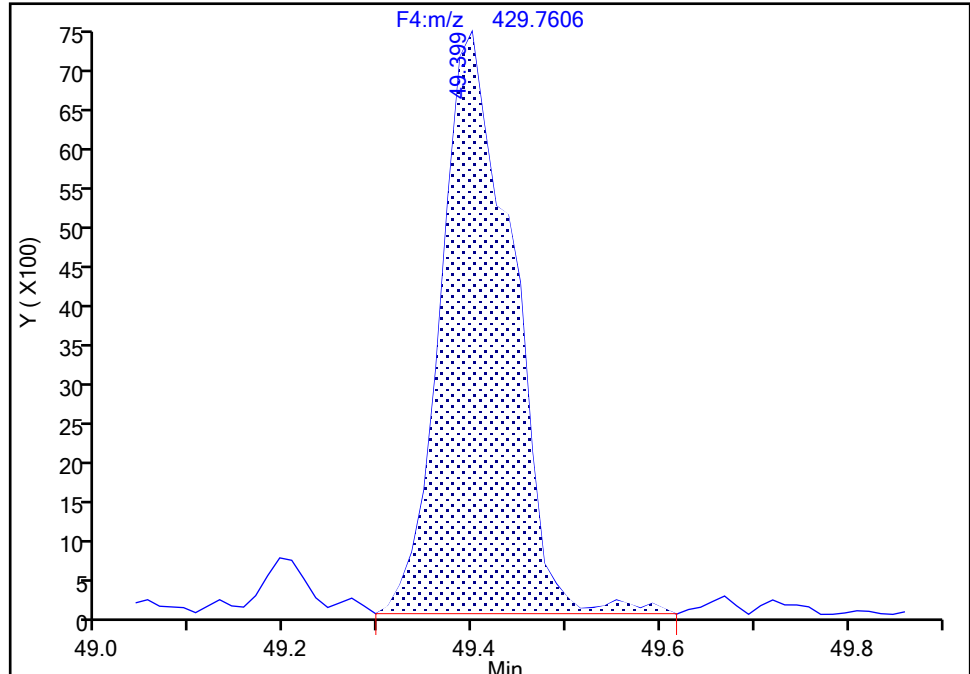
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

PCB-195, CAS: 52663-78-2

Signal: 2

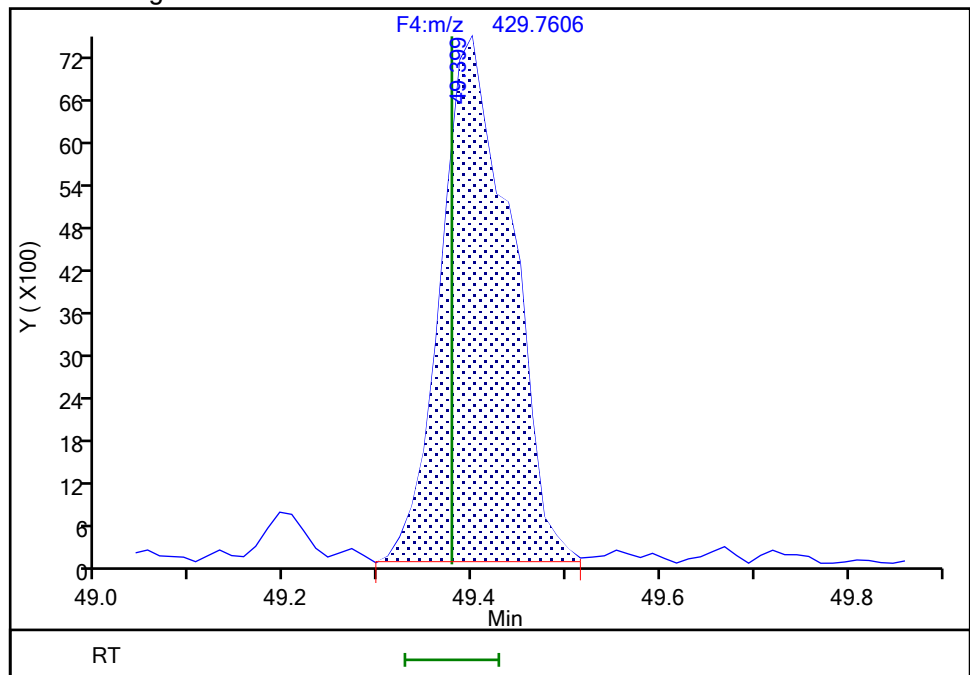
RT: 49.40
Area: 39042
Amount: 1.088758
Amount Units: pg/ul

Processing Integration Results



RT: 49.40
Area: 38418
Amount: 1.064369
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:40:56 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

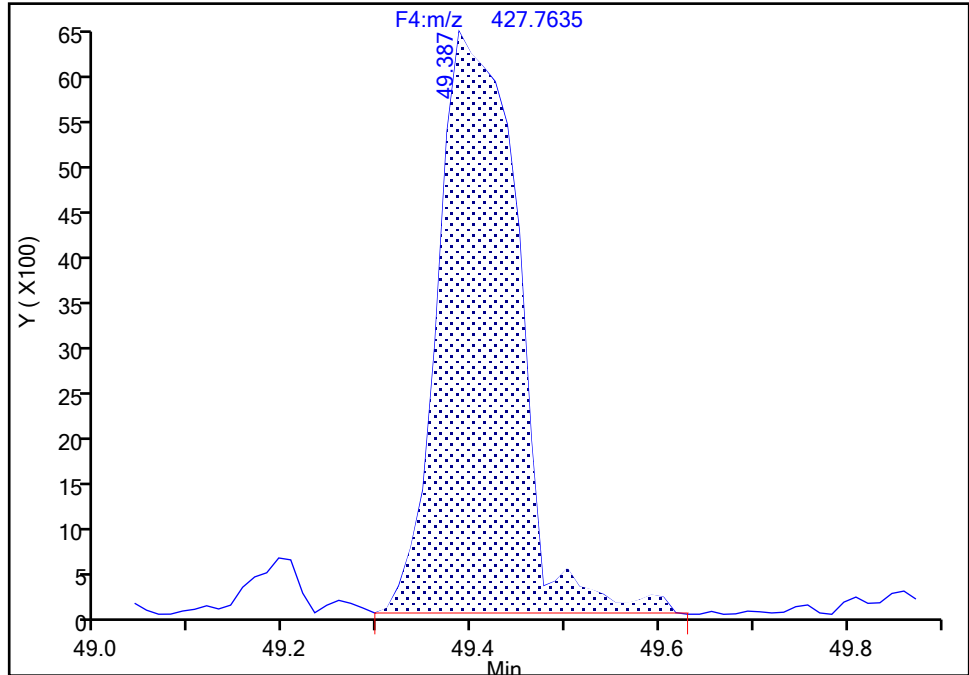
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-195, CAS: 52663-78-2

Signal: 1

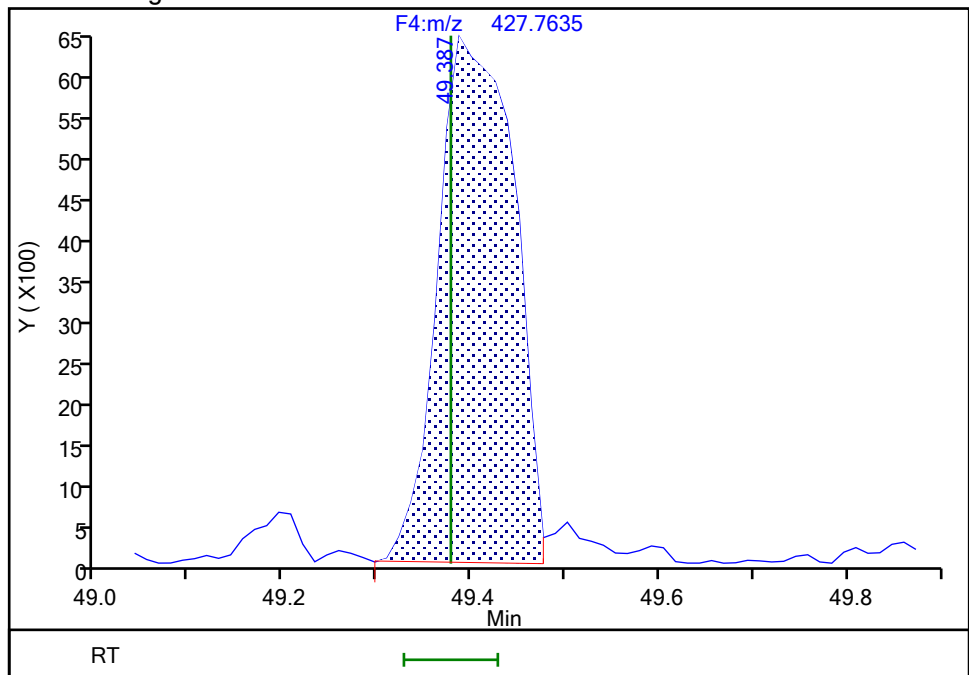
RT: 49.39
Area: 38025
Amount: 1.088758
Amount Units: pg/ul

Processing Integration Results



RT: 49.39
Area: 36050
Amount: 1.064369
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:40:59 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Page 1847 of 3076

9/6/2024 2:43:26 PM
BASFHWC-GS-2024-3299

Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

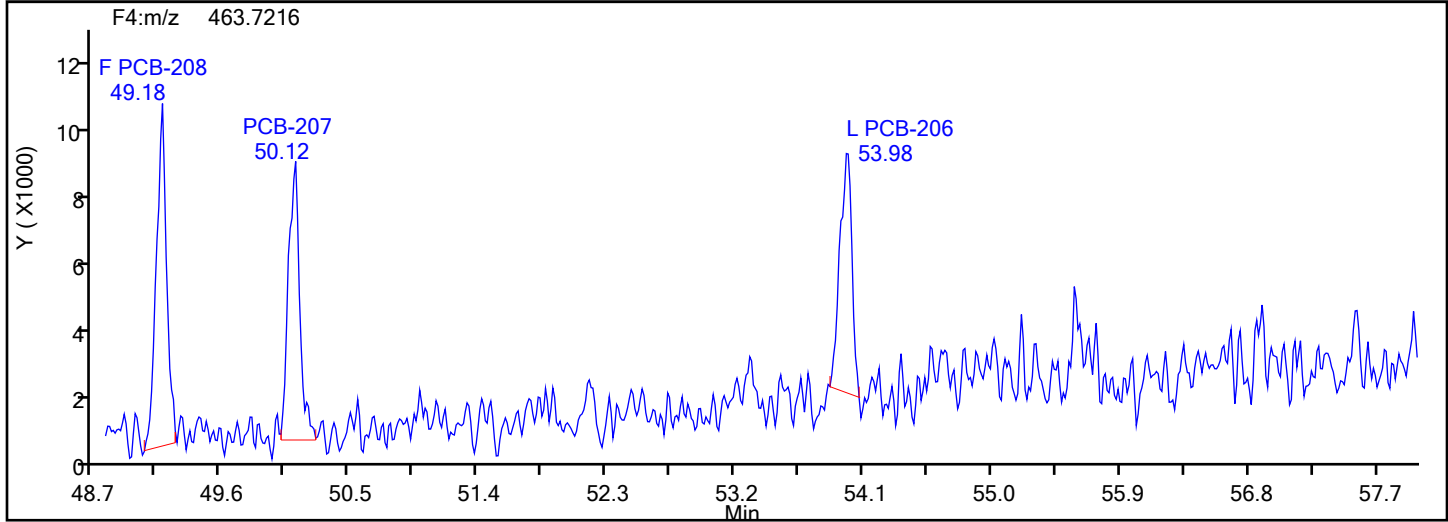
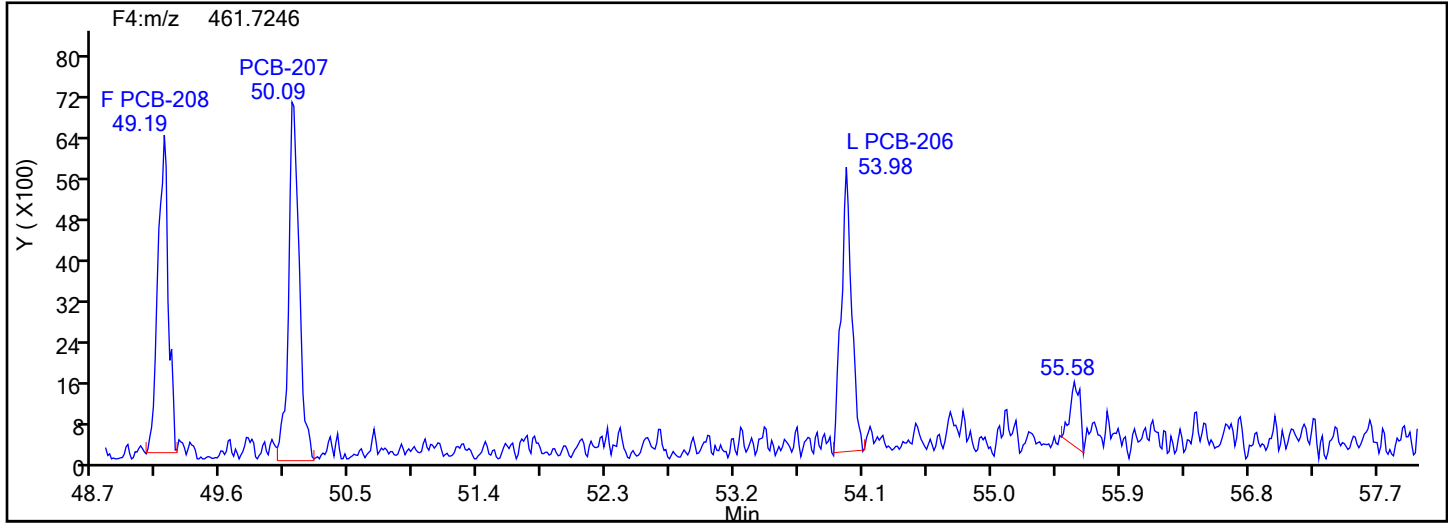
Worklist#: 87130

Sample Line#: 2

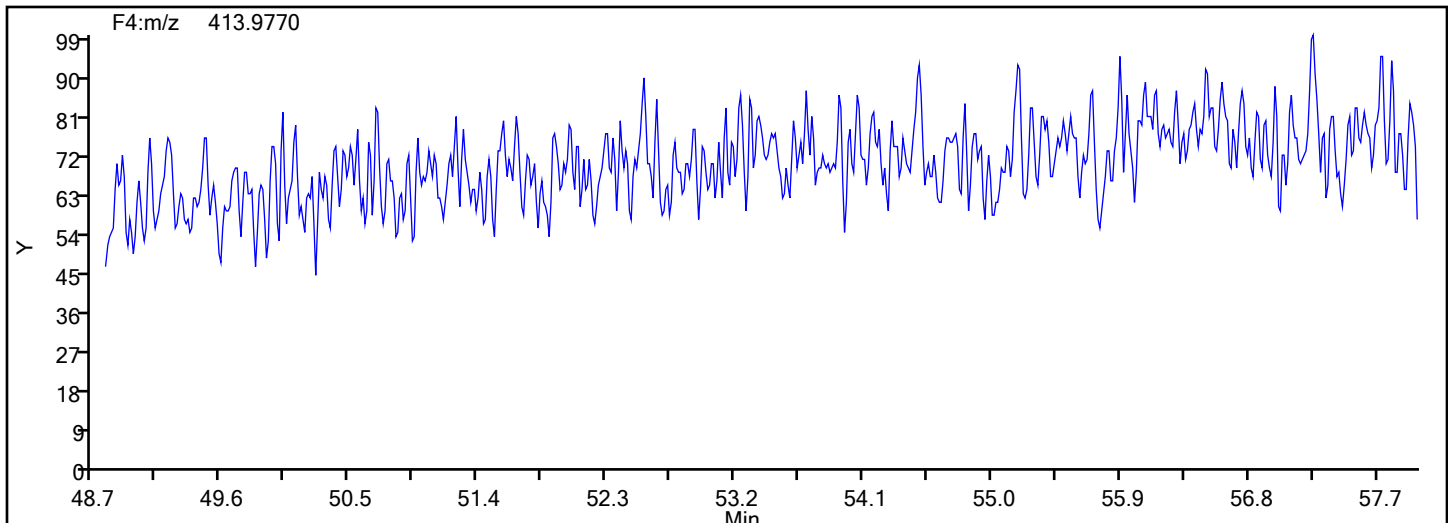
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

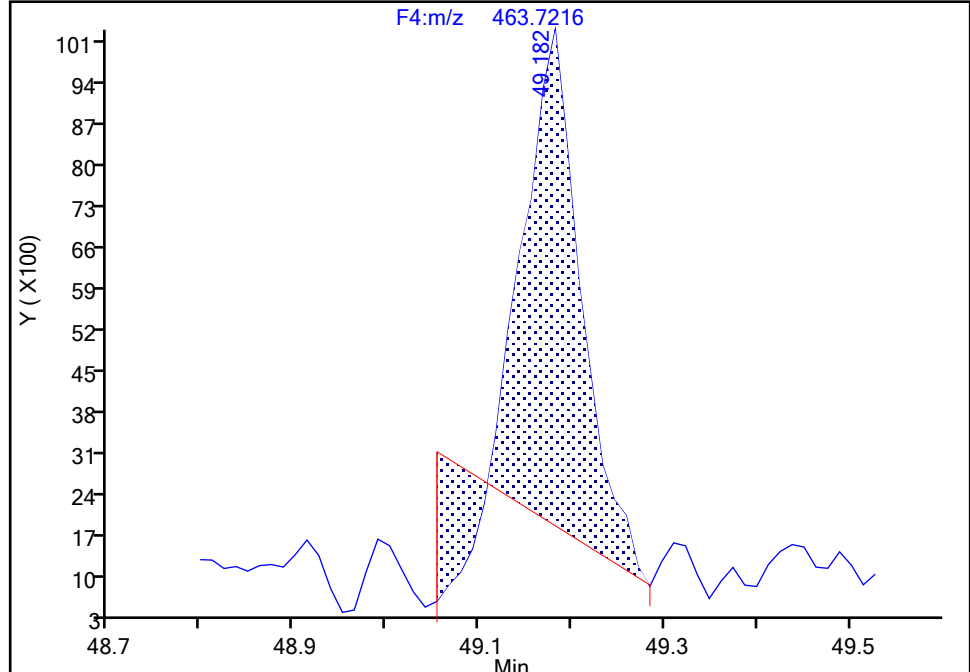
Detector F4(49.20 :57.50)

PCB-208, CAS: 52663-77-1

Signal: 2

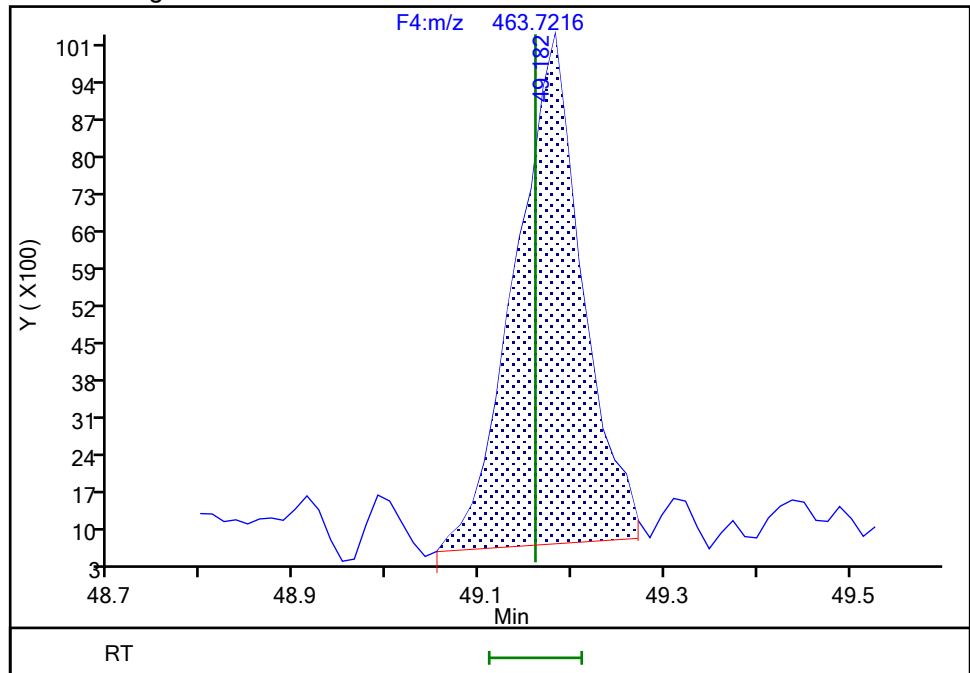
RT: 49.18
Area: 30689
Amount: 0.856155
Amount Units: pg/ul

Processing Integration Results



RT: 49.18
Area: 47975
Amount: 1.036303
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:56:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

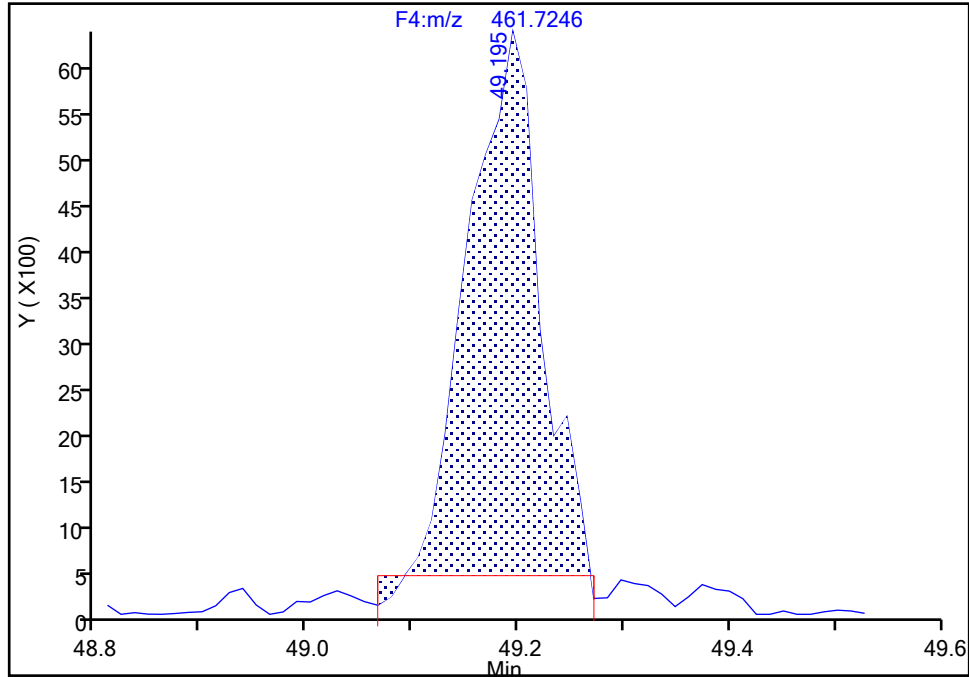
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-208, CAS: 52663-77-1

Signal: 1

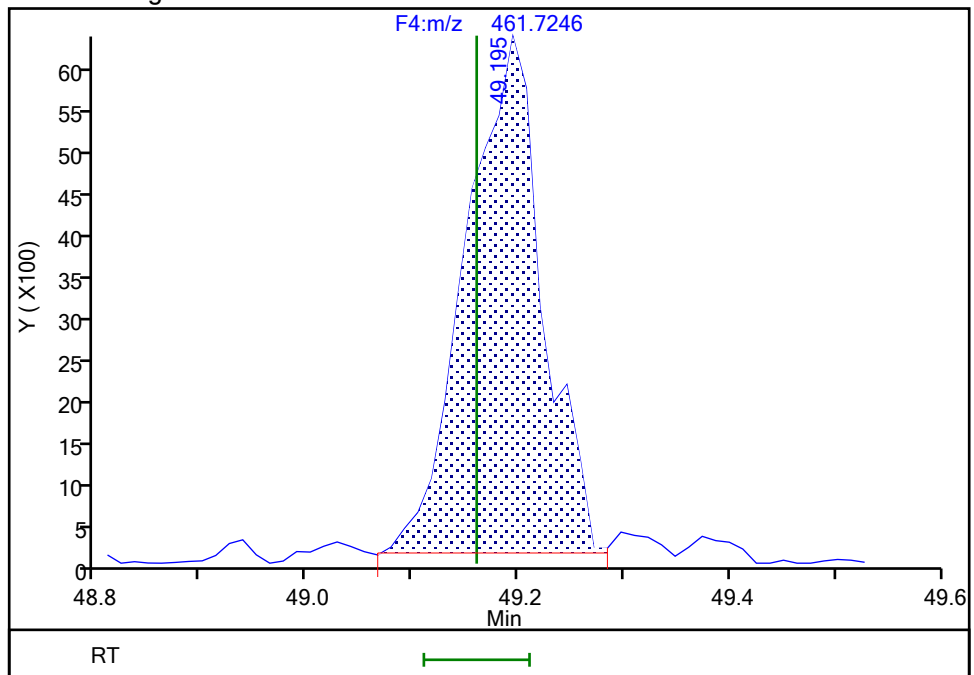
RT: 49.19
Area: 27820
Amount: 0.856155
Amount Units: pg/ul

Processing Integration Results



RT: 49.19
Area: 31684
Amount: 1.036303
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:56:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-GS-2024-05-31-003303
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

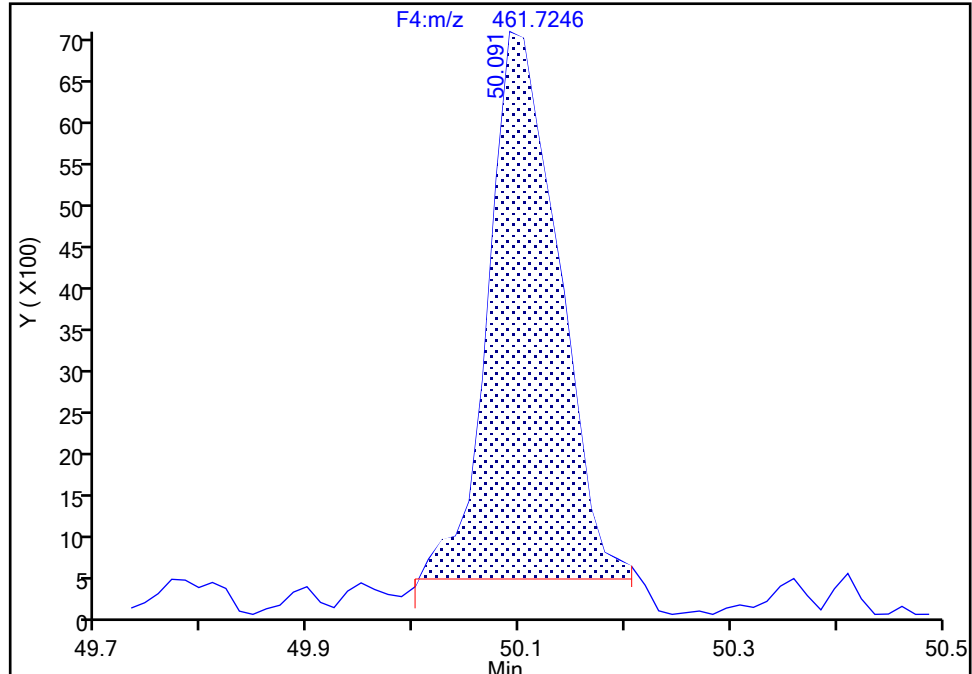
Detector F4(49.20 :57.50)

PCB-207, CAS: 52663-79-3

Signal: 1

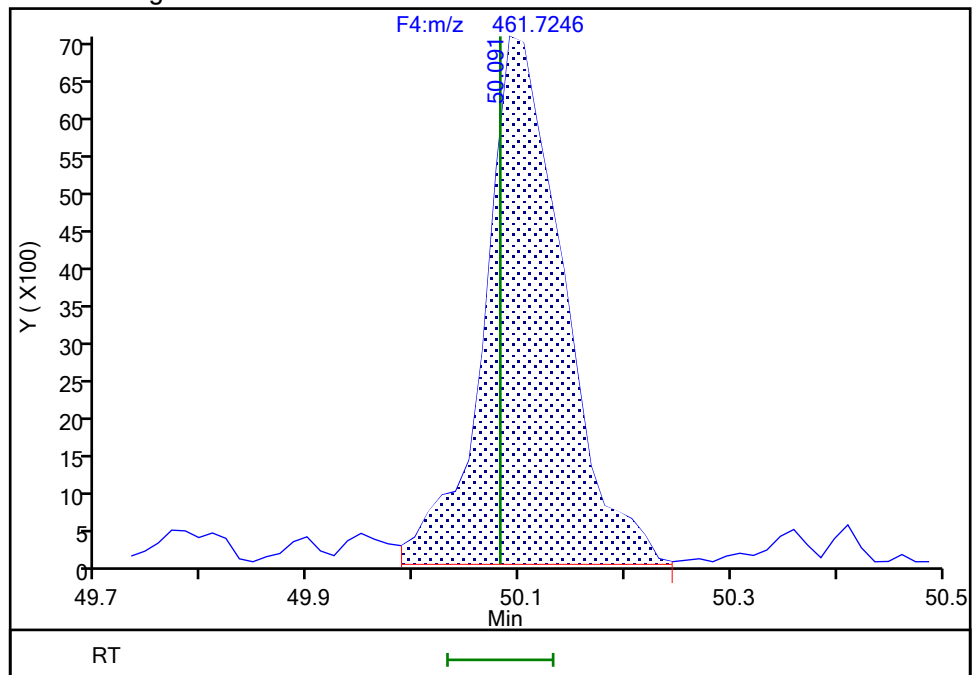
RT: 50.09
Area: 30187
Amount: 0.767801
Amount Units: pg/ul

Processing Integration Results



RT: 50.09
Area: 36477
Amount: 0.994864
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:40:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

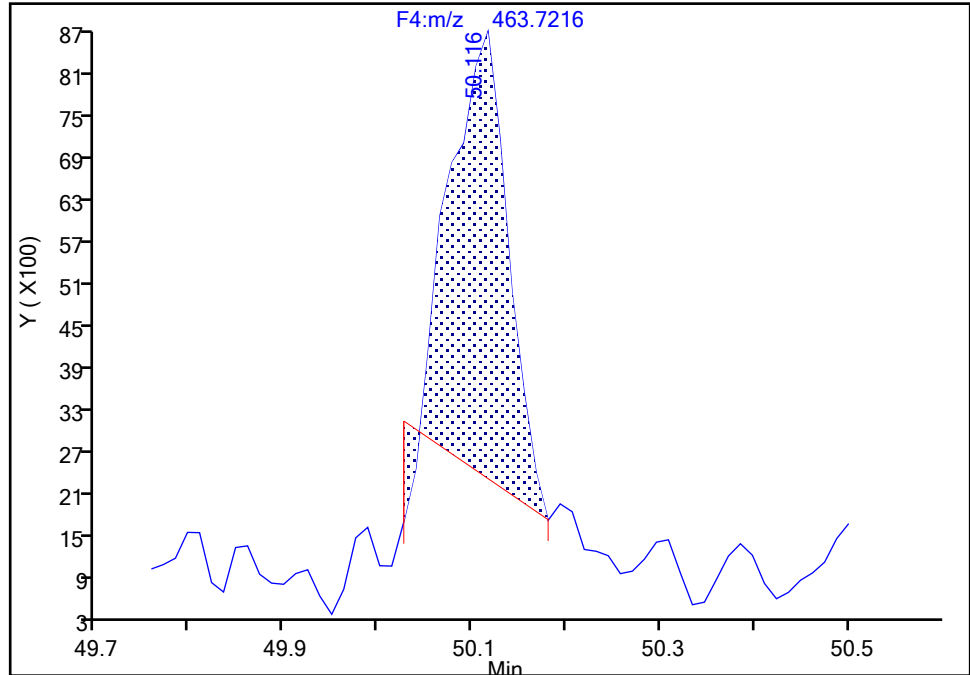
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-207, CAS: 52663-79-3

Signal: 2

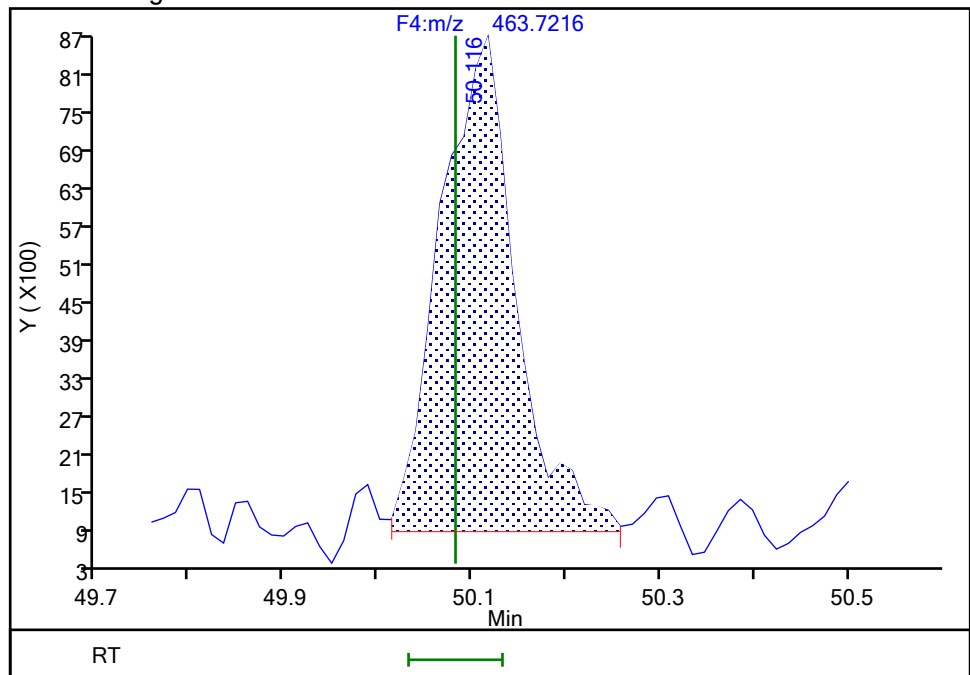
RT: 50.12
Area: 26115
Amount: 0.767801
Amount Units: pg/ul

Processing Integration Results



RT: 50.12
Area: 43355
Amount: 0.994864
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:40:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024 2:43:26 PM
BASFHWC-G-012-2024-3305

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

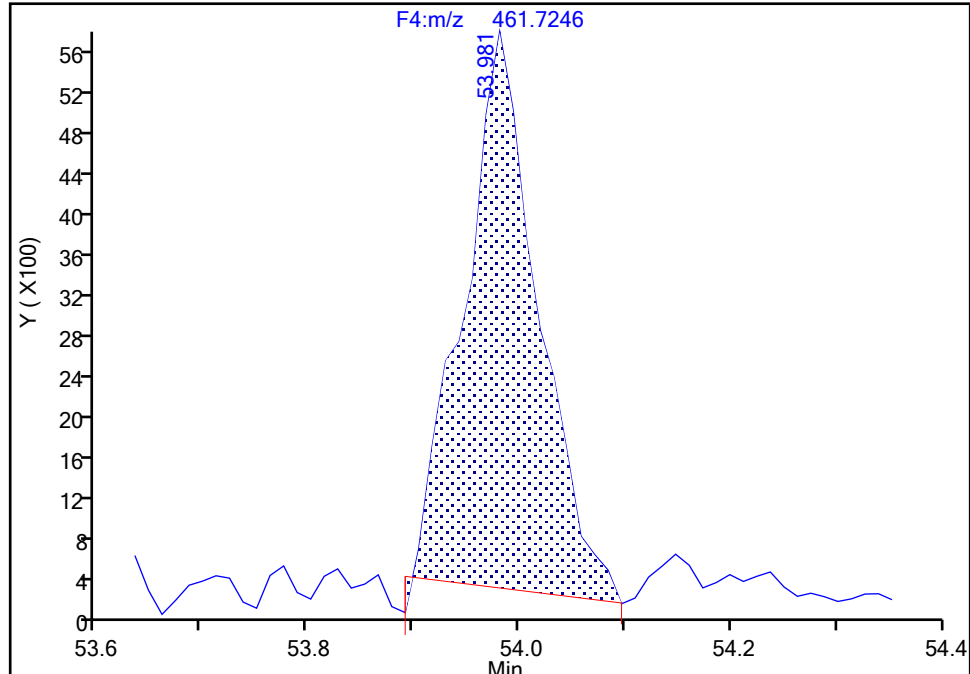
Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 1

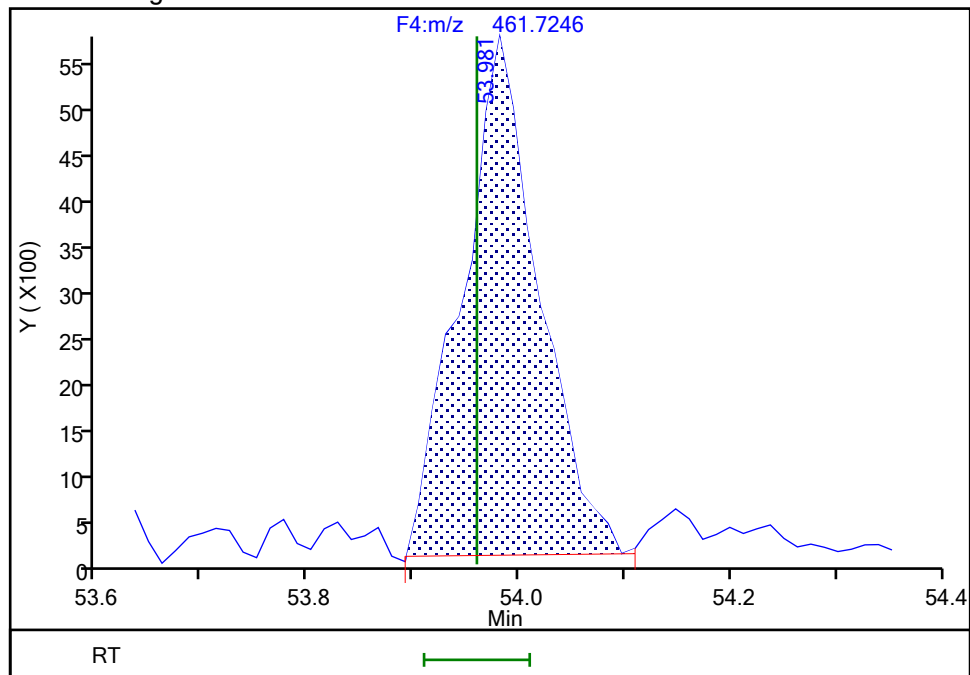
RT: 53.98
Area: 26385
Amount: 0.989782
Amount Units: pg/ul

Processing Integration Results



RT: 53.98
Area: 28296
Amount: 1.029702
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:56:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

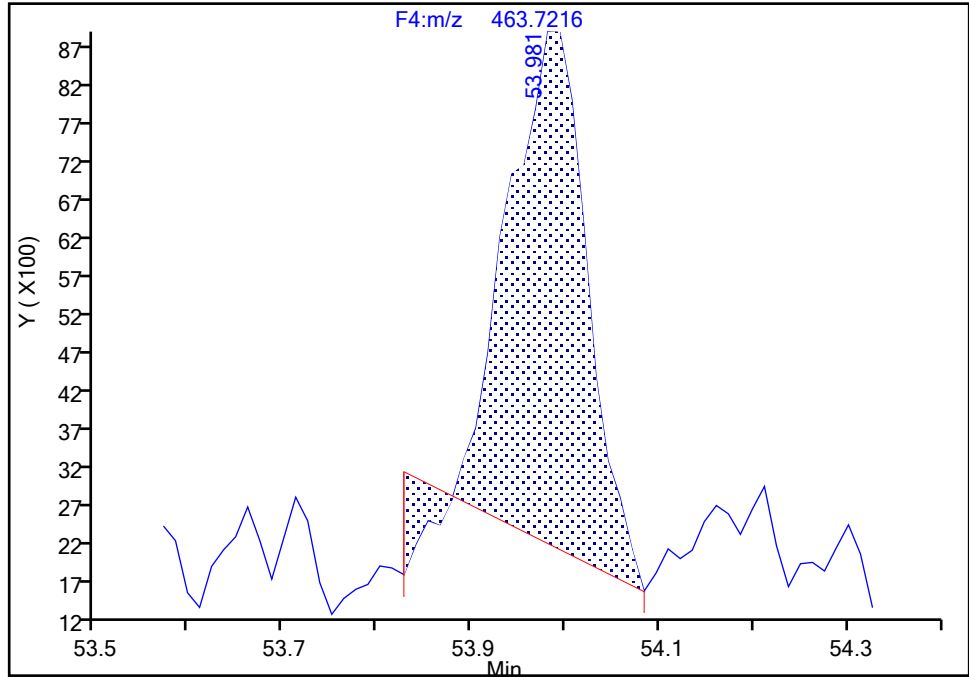
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 2

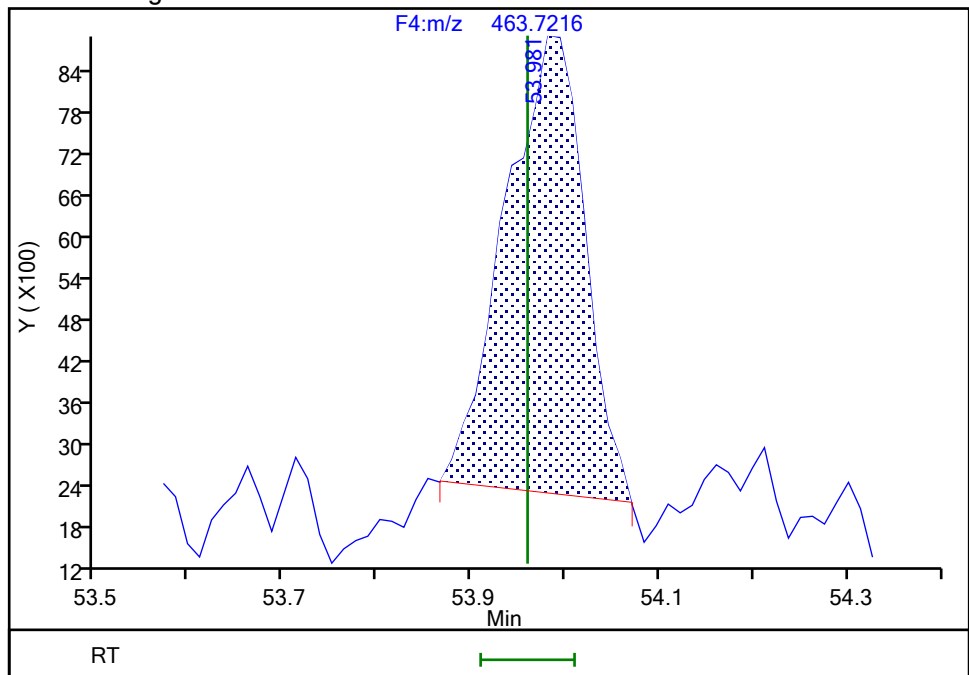
RT: 53.98
Area: 37674
Amount: 0.989782
Amount Units: pg/ul

Processing Integration Results



RT: 53.98
Area: 39161
Amount: 1.029702
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:57:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

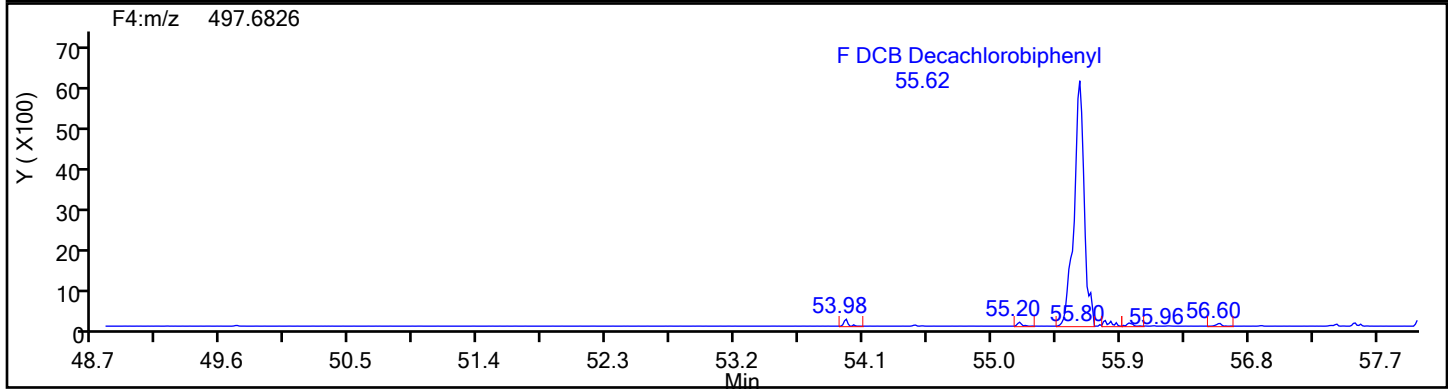
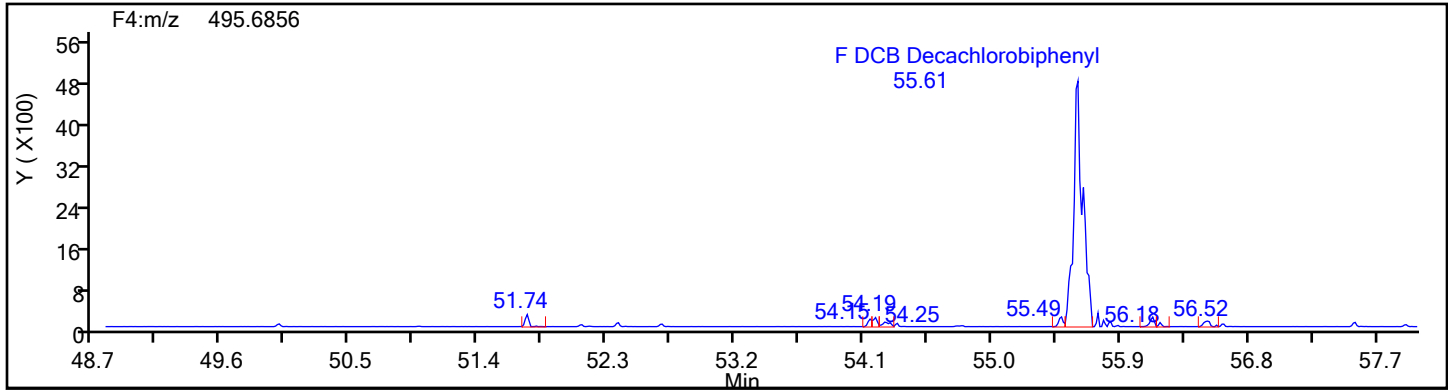
Worklist#: 87130

Sample Line#: 2

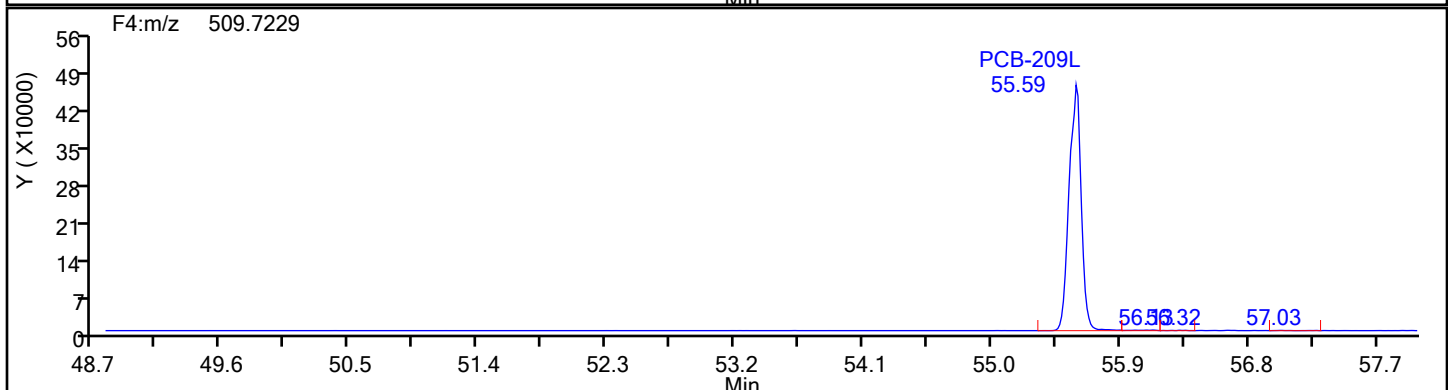
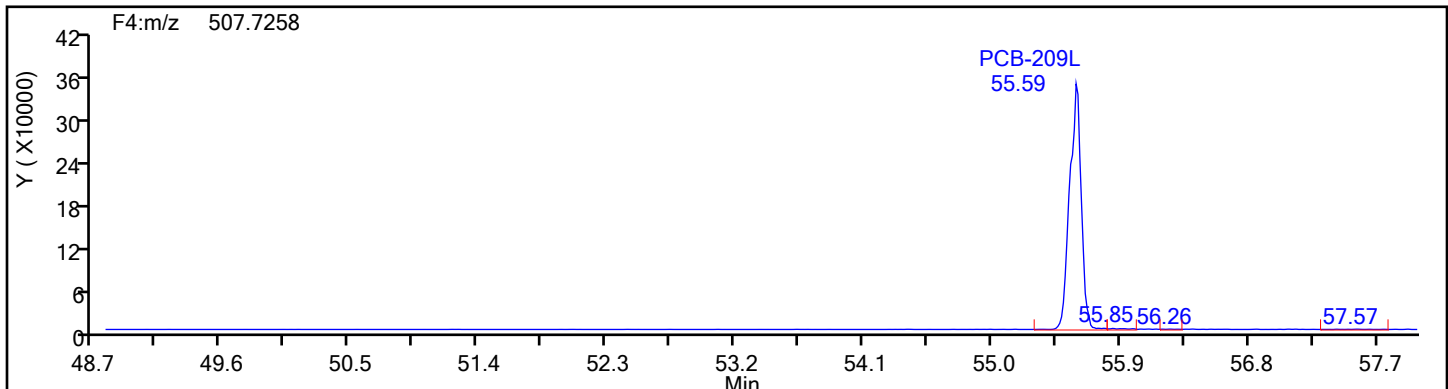
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

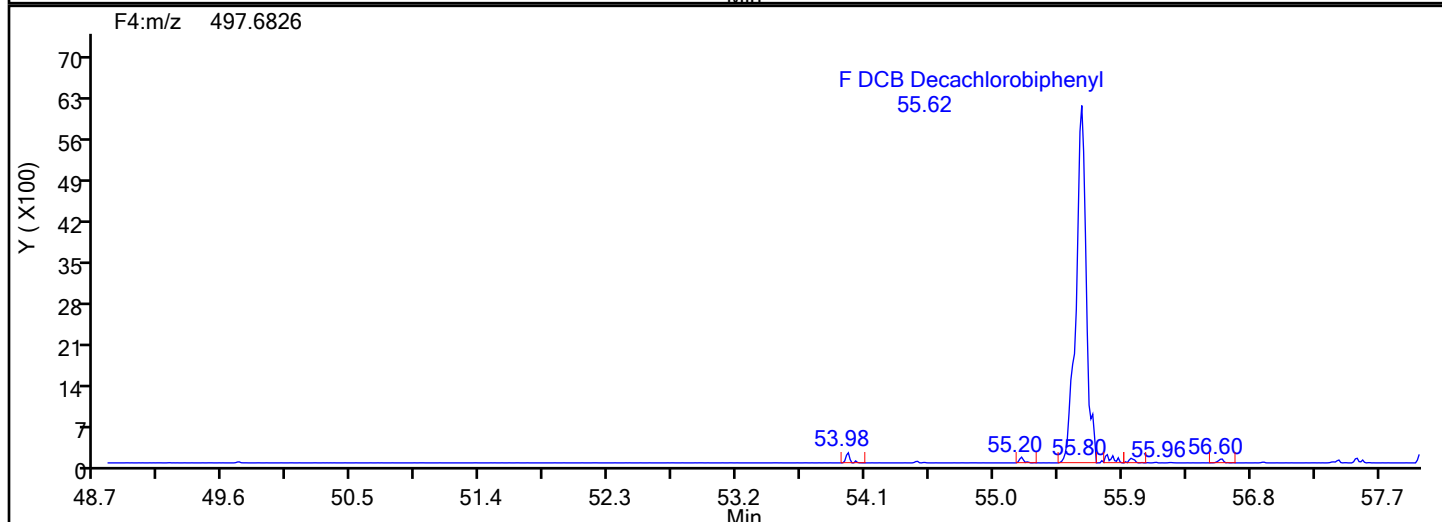
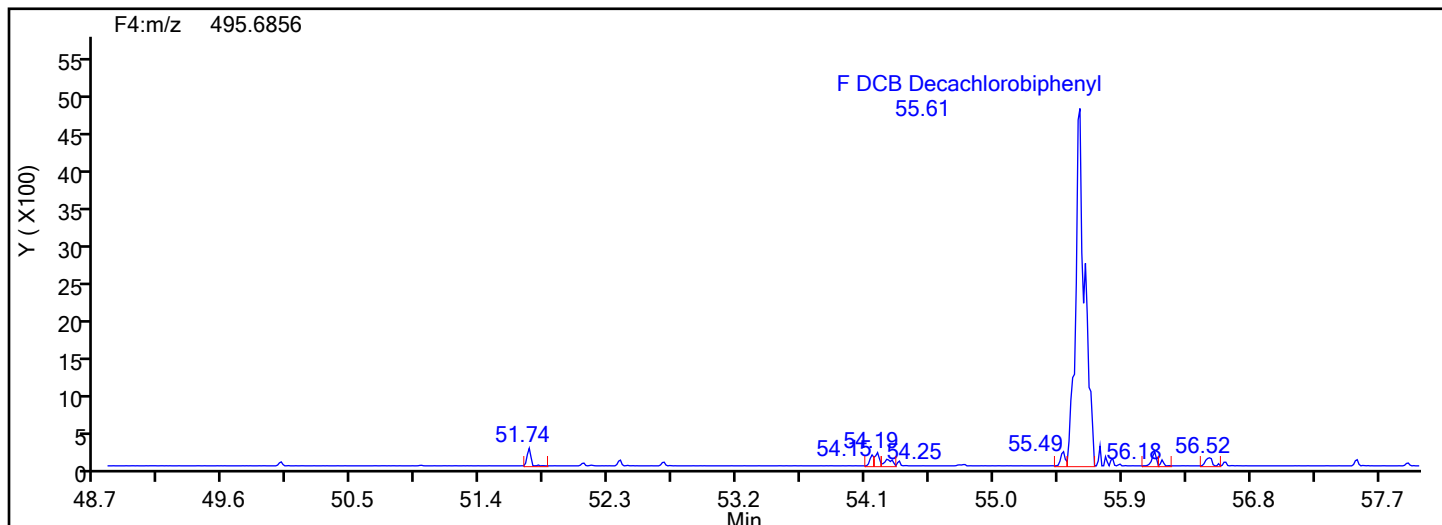
Worklist#: 87130

Sample Line#: 2

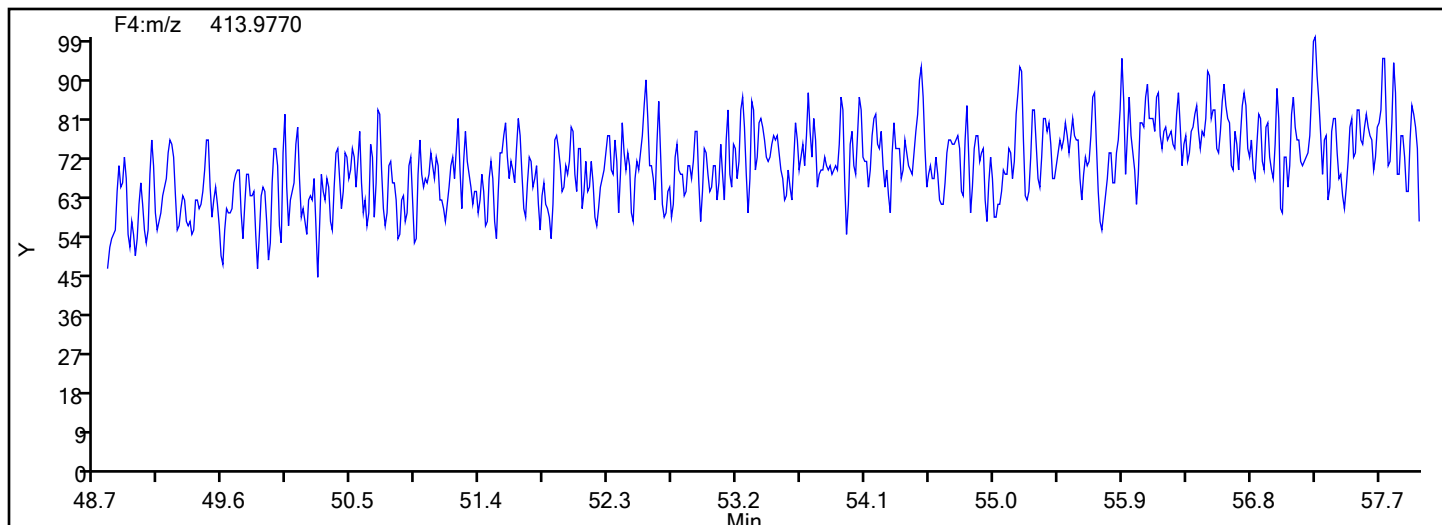
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 31-May-2024 18:00:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-003
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:27:15 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 19:20:28

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					14.8	14.8	0.0308	0.0308		
D PCB-1L	11:37	13253788	3.15	1.6108	98.6	98.6	0.2469	0.2469	98.62	
D PCB-3L	13:47	13154993	3.17	1.5891	99.2	99.2	0.2503	0.2503	99.22	
PCB-1	11:38	796059	3.31	1.2191	4.927	4.927	0.0277	0.0277	98.53	
PCB-2	13:37	768397	3.07	1.1805	4.929	4.929	0.0313	0.0313	98.59	
PCB-3	13:47	799957	3.33	1.2206	4.982	4.982	0.0334	0.0334	99.64	
S Total Dichlorobiphenyls					59.4	59.4	0.0133	0.0133		
D PCB-4L	14:02	5279032	1.61	0.6475	97.7	97.7	0.1199	0.1199	97.71	
* PCB-9L	16:00	8343115	1.62		100.0	100.0				
\$ PCB-8L	16:50	467355	1.69	1.2066	5.500	5.500	0.0832	0.0832	110	M
D PCB-15L	19:54	8806182	1.61	1.0789	97.8	97.8	0.0720	0.0720	97.83	
PCB-4	14:03	337353	1.62	1.2818	4.985	4.985	0.0161	0.0161	99.71	
PCB-10	14:13	471835	1.69	1.3149	5.095	5.095	0.0138	0.0138	102	
PCB-9	16:01	514126	1.63	1.4224	5.132	5.132	0.0128	0.0128	103	
PCB-7	16:11	476841	1.56	1.4134	4.790	4.790	0.0129	0.0129	95.81	
PCB-6	16:25	517825	1.65	1.5421	4.768	4.768	0.0118	0.0118	95.36	
PCB-5	16:43	457479	1.55	1.3395	4.850	4.850	0.0136	0.0136	96.99	
PCB-8	16:51	552662	1.61	1.5889	4.939	4.939	0.0115	0.0115	98.78	
PCB-14	18:28	492912	1.57	1.4025	4.990	4.990	0.0130	0.0130	99.81	
PCB-11	19:19	452818	1.62	1.2951	4.965	4.965	0.0141	0.0141	99.30	
PCB-12	19:37	943457	1.57	1.3358	10.0	10.0	0.0136	0.0136	100	
PCB-13 (C12)	19:37	943457	1.57	1.3358	10.0	10.0	0.0136	0.0136	100	
PCB-15	19:56	552286	1.63	1.2903	4.861	4.861	0.0126	0.0126	97.21	
S Total Trichlorobiphenyls					117.8	117.8	0.0773	0.0773		
D PCB-19L	17:08	3389482	1.07	0.6285	102.1	102.1	0.4214	0.4214	102	
* PCB-32L	20:24	5282294	1.08		100.0	100.0				
* PCB-31L	22:39	15275204	1.06		100.0	100.0				
\$ PCB-28L	22:56	930321	1.03	1.0494	5.804	5.804	0.0746	0.0746	116	
D PCB-37L	26:56	13114910	1.07	0.8749	98.1	98.1	0.0895	0.0895	98.13	
PCB-19	17:09	215976	1.18	1.2809	4.975	4.975	0.0162	0.0162	99.49	
PCB-18	19:00	588680	1.05	1.7652	9.839	9.839	0.0118	0.0118	98.39	
PCB-30 (C18)	19:00	588680	1.05	1.7652	9.839	9.839	0.0118	0.0118	98.39	
PCB-17	19:26	206164	1.06	1.2430	4.893	4.893	0.0167	0.0167	97.87	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:39	310541	1.15	1.8327	4.999	4.999	0.0113	0.0113	99.98	
PCB-24	19:46	276459	1.10	1.6777	4.862	4.862	0.0124	0.0124	97.24	
PCB-16	19:54	189210	1.05	1.1286	4.946	4.946	0.0184	0.0184	98.93	
PCB-32	20:24	310058	1.07	1.8324	4.992	4.992	0.0113	0.0113	99.84	
PCB-34	21:40	741948	1.03	1.1277	5.016	5.016	0.1123	0.1123	100	
PCB-23	21:49	710024	1.04	1.0813	5.007	5.007	0.1172	0.1172	100	
PCB-26	22:08	1426183	1.04	1.1255	9.662	9.662	0.1126	0.1126	96.62	
PCB-29 (C26)	22:08	1426183	1.04	1.1255	9.662	9.662	0.1126	0.1126	96.62	
PCB-25	22:22	798213	1.09	1.2728	4.782	4.782	0.0995	0.0995	95.64	
PCB-31	22:40	744974	1.06	1.1532	4.926	4.926	0.1099	0.1099	98.51	
PCB-20	22:58	1483821	1.05	1.1718	9.655	9.655	0.1081	0.1081	96.55	
PCB-28 (C20)	22:58	1483821	1.05	1.1718	9.655	9.655	0.1081	0.1081	96.55	
PCB-21	23:08	1403700	1.05	1.0746	9.960	9.960	0.1179	0.1179	99.60	M
PCB-33 (C21)	23:08	1403700	1.05	1.0746	9.960	9.960	0.1179	0.1179	99.60	M
PCB-22	23:35	739669	1.04	1.1932	4.727	4.727	0.1062	0.1062	94.53	
PCB-36	25:10	731454	1.06	1.1071	5.038	5.038	0.1144	0.1144	101	
PCB-39	25:31	760165	1.05	1.1581	5.005	5.005	0.1094	0.1094	100	
PCB-38	26:06	680342	1.03	1.0843	4.784	4.784	0.1168	0.1168	95.68	
PCB-35	26:33	721094	1.00	1.1297	4.867	4.867	0.1121	0.1121	97.34	
PCB-37	26:57	723492	0.98	1.1435	4.824	4.824	0.1108	0.1108	96.48	
S Total Tetrachlorobiphenyls					203.4	203.4	0.1436	0.1436		
D PCB-54L	20:12	2803421	0.81	0.5562	95.4	95.4	0.0457	0.0457	95.42	M
* PCB-52L	24:47	7684810	0.79		100.0	100.0				
\$ PCB-79L	32:42	504032	0.86	1.0018	5.174	5.174	0.1659	0.1659	103	
D PCB-81L	33:41	9411321	0.80	1.2470	98.2	98.2	0.1444	0.1444	98.21	
D PCB-77L	34:15	10036639	0.82	1.3212	98.9	98.9	0.1363	0.1363	98.85	
PCB-54	20:14	187801	0.85	1.2733	5.261	5.261	0.0132	0.0132	105	
PCB-50	22:25	797957	0.78	0.8578	9.567	9.567	0.1844	0.1844	95.67	
PCB-53 (C50)	22:25	797957	0.78	0.8578	9.567	9.567	0.1844	0.1844	95.67	
PCB-45	23:08	788555	0.75	0.8264	9.813	9.813	0.1914	0.1914	98.13	M
PCB-51 (C45)	23:08	788555	0.75	0.8264	9.813	9.813	0.1914	0.1914	98.13	M
PCB-46	23:23	340774	0.81	0.7101	4.935	4.935	0.2227	0.2227	98.71	
PCB-52	24:48	439829	0.77	0.9194	4.920	4.920	0.1720	0.1720	98.39	
PCB-43	24:57	974936	0.77	1.0333	9.703	9.703	0.1531	0.1531	97.03	M
PCB-73 (C43)	24:57	974936	0.77	1.0333	9.703	9.703	0.1531	0.1531	97.03	M
PCB-49	25:14	1002960	0.78	1.0685	9.653	9.653	0.1480	0.1480	96.53	
PCB-69 (C49)	25:14	1002960	0.78	1.0685	9.653	9.653	0.1480	0.1480	96.53	
PCB-48	25:33	401794	0.84	0.8399	4.920	4.920	0.1883	0.1883	98.39	
PCB-44	25:48	1344248	0.78	0.9731	14.2	14.2	0.1625	0.1625	94.71	
PCB-47 (C44)	25:48	1344248	0.78	0.9731	14.2	14.2	0.1625	0.1625	94.71	
PCB-65 (C44)	25:48	1344248	0.78	0.9731	14.2	14.2	0.1625	0.1625	94.71	
PCB-59	26:07	1597958	0.78	1.1853	13.9	13.9	0.1334	0.1334	92.43	
PCB-62 (C59)	26:07	1597958	0.78	1.1853	13.9	13.9	0.1334	0.1334	92.43	
PCB-75 (C59)	26:07	1597958	0.78	1.1853	13.9	13.9	0.1334	0.1334	92.43	
PCB-42	26:19	398654	0.73	0.8097	5.064	5.064	0.1954	0.1954	101	
PCB-40	26:49	1243102	0.76	0.8863	14.4	14.4	0.1785	0.1785	96.16	M
PCB-41 (C40)	26:49	1243102	0.76	0.8863	14.4	14.4	0.1785	0.1785	96.16	M
PCB-71 (C40)	26:49	1243102	0.76	0.8863	14.4	14.4	0.1785	0.1785	96.16	M
PCB-64	27:02	549661	0.77	1.1776	4.800	4.800	0.1343	0.1343	96.01	
PCB-72	27:52	528848	0.86	1.0943	4.970	4.970	0.1445	0.1445	99.40	
PCB-68	28:09	618865	0.81	1.2533	5.078	5.078	0.1262	0.1262	102	
PCB-57	28:35	515271	0.79	1.0818	4.898	4.898	0.1462	0.1462	97.96	
PCB-58	28:49	638910	0.75	1.3253	4.958	4.958	0.1193	0.1193	99.15	
PCB-67	28:58	662955	0.81	1.4230	4.791	4.791	0.1111	0.1111	95.82	
PCB-63	29:14	544766	0.77	1.1240	4.984	4.984	0.1407	0.1407	99.69	
PCB-61	29:34	2351306	0.82	1.2612	19.2	19.2	0.1254	0.1254	95.86	M
PCB-70 (C61)	29:34	2351306	0.82	1.2612	19.2	19.2	0.1254	0.1254	95.86	M
PCB-74 (C61)	29:34	2351306	0.82	1.2612	19.2	19.2	0.1254	0.1254	95.86	M
PCB-76 (C61)	29:34	2351306	0.82	1.2612	19.2	19.2	0.1254	0.1254	95.86	M
PCB-66	29:54	600993	0.79	1.2583	4.912	4.912	0.1257	0.1257	98.24	
PCB-55	30:04	630084	0.81	1.3236	4.895	4.895	0.1195	0.1195	97.91	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:34	577077	0.81	1.2334	4.812	4.812	0.1282	0.1282	96.23	M
PCB-60	30:47	510799	0.81	1.1230	4.677	4.677	0.1408	0.1408	93.55	
PCB-80	31:12	618593	0.84	1.3243	4.804	4.804	0.1194	0.1194	96.08	
PCB-79	32:43	655831	0.79	1.4368	4.694	4.694	0.1101	0.1101	93.88	
PCB-78	33:16	551876	0.77	1.1618	4.885	4.885	0.1361	0.1361	97.70	M
PCB-81	33:42	499582	0.80	1.0802	4.914	4.914	0.1499	0.1499	98.28	M
PCB-77	34:16	520129	0.84	1.0836	4.783	4.783	0.1426	0.1426	95.65	
S Total Pentachlorobiphenyls					222.5	222.5	0.0403	0.0403		
D PCB-104L	25:43	6307301	1.60	1.2161	103.6	103.6	0.0256	0.0256	104	
\$ PCB-95L	28:41	234474	1.70	0.7218	5.150	5.150	0.0318	0.0318	103	
* PCB-101L	31:37	5008775	1.60		100.0	100.0				
\$ PCB-111L	34:18	394315	1.61	1.3699	5.747	5.747	0.0228	0.0228	115	
D PCB-123L	36:15	9321962	1.59	0.9731	102.1	102.1	1.221	1.221	102	
D PCB-118L	36:35	9948185	1.58	1.0102	104.9	104.9	1.176	1.176	105	
D PCB-114L	37:07	9387618	1.61	0.9949	100.5	100.5	1.194	1.194	101	
D PCB-105L	37:45	9087875	1.60	0.9514	101.8	101.8	1.249	1.249	102	
* PCB-127L	39:14	9385497	1.60		100.0	100.0				
D PCB-126L	40:51	8945635	1.60	0.9439	101.0	101.0	1.259	1.259	101	
PCB-104	25:44	306050	1.57	1.0087	4.810	4.810	0.002672	0.002672	96.21	
PCB-96	26:06	338671	1.66	1.0940	4.908	4.908	0.002463	0.002463	98.16	
PCB-103	28:03	272723	1.63	0.8741	4.947	4.947	0.003083	0.003083	98.93	
PCB-94	28:15	243354	1.52	0.7640	5.050	5.050	0.003527	0.003527	101	
PCB-95	28:42	247318	1.63	0.8033	4.881	4.881	0.003355	0.003355	97.63	
PCB-93	28:56	508477	1.54	0.8429	9.565	9.565	0.003197	0.003197	95.65	
PCB-100 (C93)	28:56	508477	1.54	0.8429	9.565	9.565	0.003197	0.003197	95.65	
PCB-98	29:05	526504	1.64	0.8262	10.1	10.1	0.003262	0.003262	101	M
PCB-102 (C98)	29:05	526504	1.64	0.8262	10.1	10.1	0.003262	0.003262	101	M
PCB-88	29:28	497525	1.60	0.8013	9.844	9.844	0.003363	0.003363	98.44	M
PCB-91 (C88)	29:28	497525	1.60	0.8013	9.844	9.844	0.003363	0.003363	98.44	M
PCB-84	29:47	225737	1.61	0.7299	4.903	4.903	0.003692	0.003692	98.06	
PCB-89	30:17	245536	1.57	0.7798	4.992	4.992	0.003456	0.003456	99.84	
PCB-121	30:41	406765	1.67	1.2964	4.975	4.975	0.002079	0.002079	99.49	
PCB-92	31:03	260863	1.63	0.8546	4.840	4.840	0.003154	0.003154	96.80	
PCB-90	31:38	853991	1.53	0.9550	14.2	14.2	0.002822	0.002822	94.52	
PCB-101 (C90)	31:38	853991	1.53	0.9550	14.2	14.2	0.002822	0.002822	94.52	
PCB-113 (C90)	31:38	853991	1.53	0.9550	14.2	14.2	0.002822	0.002822	94.52	
PCB-83	32:13	528892	1.48	0.8385	10.0	10.0	0.003214	0.003214	100	M
PCB-99 (C83)	32:13	528892	1.48	0.8385	10.0	10.0	0.003214	0.003214	100	M
PCB-112	32:20	437482	1.71	1.4111	4.915	4.915	0.001910	0.001910	98.31	
PCB-86	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-87 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-97 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-109 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-119 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-125 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-85	33:26	938339	1.57	1.0408	14.3	14.3	0.002589	0.002589	95.29	M
PCB-116 (C85)	33:26	938339	1.57	1.0408	14.3	14.3	0.002589	0.002589	95.29	M
PCB-117 (C85)	33:26	938339	1.57	1.0408	14.3	14.3	0.002589	0.002589	95.29	M
PCB-110	33:38	734092	1.59	1.1919	9.765	9.765	0.002261	0.002261	97.65	M
PCB-115 (C110)	33:38	734092	1.59	1.1919	9.765	9.765	0.002261	0.002261	97.65	M
PCB-82	33:56	257633	1.50	0.8303	4.919	4.919	0.003246	0.003246	98.39	
PCB-111	34:20	366927	1.71	1.2125	4.798	4.798	0.002223	0.002223	95.96	
PCB-120	34:48	446498	1.64	1.4762	4.795	4.795	0.001826	0.001826	95.91	
PCB-108	35:56	1034062	1.58	1.1405	9.709	9.709	0.1160	0.1160	97.09	
PCB-124 (C108)	35:56	1034062	1.58	1.1405	9.709	9.709	0.1160	0.1160	97.09	
PCB-107	36:11	576281	1.52	1.2121	5.091	5.091	0.1092	0.1092	102	
PCB-123	36:17	444649	1.54	1.0722	4.449	4.449	0.1220	0.1220	88.97	
PCB-106	36:24	501472	1.50	1.0839	4.954	4.954	0.1221	0.1221	99.09	
PCB-118	36:37	579609	1.57	1.2055	4.833	4.833	0.1034	0.1034	96.66	
PCB-122	36:57	416752	1.47	0.9567	4.665	4.665	0.1383	0.1383	93.30	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:08	496695	1.43	1.0842	4.880	4.880	0.1191	0.1191	97.61	
PCB-105	37:47	513401	1.56	1.1879	4.756	4.756	0.1159	0.1159	95.11	M
PCB-127	39:15	505934	1.52	1.1394	4.755	4.755	0.1161	0.1161	95.10	M
PCB-126	40:51	483239	1.56	1.0976	4.922	4.922	0.1281	0.1281	98.43	
S Total Hexachlorobiphenyls					206.9	206.9	0.0442	0.0442		
D PCB-155L	31:23	5708638	1.27	1.0851	105.0	105.0	0.0356	0.0356	105	
\$ PCB-153L	38:28	444756	1.28	0.9169	6.065	6.065	0.7601	0.7601	121	
* PCB-138L	39:43	6431603	1.27		100.0	100.0				
\$ PCB-159L	41:57	4130110	1.30	0.5118	99.0	99.0	1.122	1.122	99.00	
D PCB-167L	42:43	8150383	1.29	1.2572	100.8	100.8	0.5795	0.5795	101	
D PCB-156L	43:52	15994835	1.29	1.2106	205.4	205.4	0.6018	0.6018	103	
D PCB-157L (C156L)	43:52	15994835	1.29	1.2106	205.4	205.4	0.6018	0.6018	103	
D PCB-169L	47:06	7844285	1.29	1.2439	98.1	98.1	0.5857	0.5857	98.05	
PCB-155	31:25	269852	1.19	0.9444	5.005	5.005	0.005858	0.005858	100	
PCB-152	31:37	280445	1.25	0.9895	4.965	4.965	0.005591	0.005591	99.29	
PCB-150	31:47	292889	1.19	1.0132	5.064	5.064	0.005460	0.005460	101	
PCB-136	32:09	270798	1.37	1.0116	4.689	4.689	0.005469	0.005469	93.79	
PCB-145	32:26	275033	1.36	0.9685	4.975	4.975	0.005712	0.005712	99.49	
PCB-148	33:58	215061	1.37	0.7603	4.955	4.955	0.007276	0.007276	99.10	
PCB-135	34:35	403202	1.34	0.7256	9.734	9.734	0.007624	0.007624	97.34	
PCB-151 (C135)	34:35	403202	1.34	0.7256	9.734	9.734	0.007624	0.007624	97.34	
PCB-154	34:48	228222	1.32	0.8129	4.918	4.918	0.006805	0.006805	98.36	
PCB-144	35:06	217725	1.29	0.7852	4.857	4.857	0.007045	0.007045	97.14	
PCB-147	35:28	675152	1.30	0.8950	9.433	9.433	0.0624	0.0624	94.33	
PCB-149 (C147)	35:28	675152	1.30	0.8950	9.433	9.433	0.0624	0.0624	94.33	
PCB-134	35:46	640616	1.23	0.7967	10.1	10.1	0.0701	0.0701	101	
PCB-143 (C134)	35:46	640616	1.23	0.7967	10.1	10.1	0.0701	0.0701	101	
PCB-139	36:03	673528	1.25	0.8769	9.605	9.605	0.0637	0.0637	96.05	
PCB-140 (C139)	36:03	673528	1.25	0.8769	9.605	9.605	0.0637	0.0637	96.05	
PCB-131	36:15	289665	1.37	0.7503	4.827	4.827	0.0745	0.0745	96.55	
PCB-142	36:24	301166	1.15	0.7507	5.016	5.016	0.0744	0.0744	100	
PCB-132	36:45	300578	1.28	0.7489	5.018	5.018	0.0746	0.0746	100	
PCB-133	37:14	328133	1.24	0.8096	5.068	5.068	0.0690	0.0690	101	
PCB-165	37:37	408419	1.29	1.0247	4.984	4.984	0.0545	0.0545	99.67	
PCB-146	37:52	378659	1.23	0.9637	4.913	4.913	0.0580	0.0580	98.27	
PCB-161	38:01	438810	1.27	1.1288	4.861	4.861	0.0495	0.0495	97.22	
PCB-153	38:31	893507	1.27	1.0938	10.2	10.2	0.0511	0.0511	102	
PCB-168 (C153)	38:31	893507	1.27	1.0938	10.2	10.2	0.0511	0.0511	102	
PCB-141	38:41	338462	1.30	0.8755	4.834	4.834	0.0638	0.0638	96.68	
PCB-130	39:06	279233	1.33	0.7051	4.952	4.952	0.0792	0.0792	99.04	
PCB-137	39:18	318450	1.27	0.7767	5.127	5.127	0.0719	0.0719	103	
PCB-164	39:26	400805	1.29	1.0382	4.827	4.827	0.0538	0.0538	96.54	
PCB-129	39:44	1473269	1.26	0.9464	19.5	19.5	0.0590	0.0590	97.33	M
PCB-138 (C129)	39:44	1473269	1.26	0.9464	19.5	19.5	0.0590	0.0590	97.33	M
PCB-160 (C129)	39:44	1473269	1.26	0.9464	19.5	19.5	0.0590	0.0590	97.33	M
PCB-163 (C129)	39:44	1473269	1.26	0.9464	19.5	19.5	0.0590	0.0590	97.33	M
PCB-158	40:07	509962	1.21	1.3110	4.864	4.864	0.0426	0.0426	97.28	
PCB-128	40:58	747908	1.19	0.9829	9.514	9.514	0.0568	0.0568	95.14	
PCB-166 (C128)	40:58	747908	1.19	0.9829	9.514	9.514	0.0568	0.0568	95.14	
PCB-159	41:59	558064	1.29	1.3856	5.036	5.036	0.0403	0.0403	101	
PCB-162	42:16	513669	1.22	1.2571	5.109	5.109	0.0444	0.0444	102	
PCB-167	42:44	464967	1.26	1.1159	5.112	5.112	0.0413	0.0413	102	
PCB-156	43:54	886471	1.28	1.1104	9.982	9.982	0.0596	0.0596	99.82	
PCB-157 (C156)	43:54	886471	1.28	1.1104	9.982	9.982	0.0596	0.0596	99.82	
PCB-169	47:07	452938	1.19	1.1628	4.966	4.966	0.0437	0.0437	99.31	
S Total Heptachlorobiphenyls					116.4	116.4	0.002706	0.002706		
D PCB-188L	37:07	6664037	1.07	1.3133	101.1	101.1	0.0332	0.0332	101	
\$ PCB-178L	40:10	290779	1.11	1.0313	5.616	5.616	0.0422	0.0422	112	
* PCB-180L	45:16	5019998	1.05		100.0	100.0				

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-170L	46:31	4357834	1.06	0.8362	103.8	103.8	0.0521	0.0521	104	
D PCB-189L	49:38	10235768	1.06	1.4414	99.1	99.1	0.5611	0.5611	99.10	
PCB-188	37:08	379875	1.15	1.1350	5.023	5.023	0.000344	0.000344	100	
PCB-179	37:28	381743	1.13	1.4276	4.852	4.852	0.000335	0.000335	97.05	
PCB-184	38:00	370448	1.07	1.3672	4.917	4.917	0.000350	0.000350	98.33	
PCB-176	38:22	331851	1.04	1.2331	4.884	4.884	0.000388	0.000388	97.67	
PCB-186	38:48	394382	1.02	1.4737	4.856	4.856	0.000324	0.000324	97.12	
PCB-178	40:11	246629	0.99	0.8946	5.002	5.002	0.000534	0.000534	100	
PCB-175	40:49	246187	1.15	0.9524	4.690	4.690	0.000502	0.000502	93.81	
PCB-187	41:06	296377	1.01	1.1018	4.881	4.881	0.000434	0.000434	97.62	
PCB-182	41:18	263009	1.09	0.9247	5.161	5.161	0.000517	0.000517	103	
PCB-183	41:42	505531	1.07	0.9825	9.337	9.337	0.000486	0.000486	93.37	M
PCB-185 (C183)	41:42	505531	1.07	0.9825	9.337	9.337	0.000486	0.000486	93.37	M
PCB-174	41:57	258926	1.06	0.9642	4.873	4.873	0.000496	0.000496	97.46	
PCB-177	42:23	265089	1.08	0.9773	4.922	4.922	0.000489	0.000489	98.44	
PCB-181	42:47	243089	1.05	0.9505	4.641	4.641	0.000503	0.000503	92.81	
PCB-171	43:00	465633	1.04	0.9336	9.050	9.050	0.000512	0.000512	90.50	
PCB-173 (C171)	43:00	465633	1.04	0.9336	9.050	9.050	0.000512	0.000512	90.50	
PCB-172	44:38	225866	1.17	0.8519	4.811	4.811	0.000561	0.000561	96.22	
PCB-192	44:54	366181	1.04	1.3459	4.937	4.937	0.000355	0.000355	98.74	
PCB-180	45:16	626627	1.04	1.1676	9.739	9.739	0.000409	0.000409	97.39	
PCB-193 (C180)	45:16	626627	1.04	1.1676	9.739	9.739	0.000409	0.000409	97.39	
PCB-191	45:39	348406	1.07	1.2891	4.904	4.904	0.000371	0.000371	98.09	
PCB-170	46:32	255223	0.99	1.1865	4.936	4.936	0.000520	0.000520	98.72	
PCB-190	47:03	364710	0.93	1.3322	4.968	4.968	0.000359	0.000359	99.35	M
PCB-189	49:39	493179	1.03	0.9633	5.002	5.002	0.0480	0.0480	100	
S Total Octachlorobiphenyls					59.1	59.1	0.0197	0.0197		
D PCB-202L	42:29	5089577	0.93	0.9818	103.3	103.3	0.0178	0.0178	103	
* PCB-194L	51:44	7166011	0.90		100.0	100.0				
D PCB-205L	52:13	8416261	0.91	1.1786	99.7	99.7	0.0711	0.0711	99.65	
PCB-202	42:31	264468	0.89	1.0359	5.016	5.016	0.004491	0.004491	100	
PCB-201	43:25	242194	0.97	0.9754	4.879	4.879	0.004770	0.004770	97.58	
PCB-204	44:06	259683	0.88	1.0485	4.866	4.866	0.004437	0.004437	97.32	
PCB-197	44:21	278144	0.86	1.1458	4.770	4.770	0.004060	0.004060	95.39	
PCB-200	44:26	264690	0.94	1.0072	5.164	5.164	0.004619	0.004619	103	
PCB-198	47:13	430393	0.87	0.8698	9.722	9.722	0.005349	0.005349	97.22	
PCB-199 (C198)	47:13	430393	0.87	0.8698	9.722	9.722	0.005349	0.005349	97.22	
PCB-196	47:54	198979	0.93	0.7806	5.008	5.008	0.005959	0.005959	100	
PCB-203	48:05	235807	0.96	0.9292	4.986	4.986	0.005007	0.005007	99.72	
PCB-195	49:25	348250	0.94	0.8263	5.008	5.008	0.0683	0.0683	100	
PCB-194	51:46	394237	0.95	0.9735	4.812	4.812	0.0580	0.0580	96.23	
PCB-205	52:13	448246	0.92	1.0878	4.896	4.896	0.0519	0.0519	97.93	
S Total Nonachlorobiphenyls					14.7	14.7	0.1588	0.1588		
D PCB-208L	49:10	6859651	0.81	0.9576	100.0	100.0	0.1907	0.1907	99.96	
D PCB-206L	53:58	5024711	0.81	0.6947	100.9	100.9	0.2629	0.2629	101	
PCB-208	49:11	399575	0.79	1.1374	5.121	5.121	0.1522	0.1522	102	M
PCB-207	50:07	399296	0.78	1.3756	4.885	4.885	0.1458	0.1458	97.70	M
PCB-206	53:59	317426	0.77	1.3346	4.734	4.734	0.1785	0.1785	94.67	M
D PCB-209L	55:35	4889751	0.71	0.6669	102.3	102.3	0.0640	0.0640	102	
DCB Decachlorobiphenyl	55:37	273346	0.72	1.1004	5.080	5.080	0.0198	0.0198	102	
S Polychlorinated biphenyls, Total					1005.3	1005.3	0.0577	0.0577		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61L21668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 31-May-2024 18:00:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-003
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:27:15 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 19:20:28

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:37	11:36	1	0.726	10057841	4100912	2713	6782	1512		
202.0766	11:37	11:36	1	0.726	3195947	1293770	1130	2825	1145	3.15(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:46	1	0.861	9998734	3401591	2713	6782	1254		
202.0766	13:47	13:46	1	0.861	3156259	1070179	1130	2825	947	3.17(2.66-3.60)	
PCB-1											
188.0393	11:38	11:37	1	1.001	611259	245939	539	1347	456		
190.0363	11:38	11:37	1	1.001	184800	73986	190	475	389	3.31(2.66-3.60)	
PCB-2											
188.0393	13:37	13:36	1	0.989	579381	190781	539	1347	354		
190.0363	13:37	13:36	1	0.989	189016	62957	190	475	331	3.07(2.66-3.60)	
PCB-3											
188.0393	13:47	13:47	1	1.001	615081	211731	539	1347	393		
190.0363	13:47	13:47	1	1.001	184876	61561	190	475	324	3.33(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:02	0	0.877	3257949	1005892	607	1517	1657		
236.0376	14:02	14:02	0	0.877	2021083	640518	143	357	4479	1.61(1.33-1.79)	
PCB-9L											
234.0406	16:00	15:59	1		5160480	1490123	607	1517	2455		
236.0376	16:00	15:59	1		3182635	925024	143	357	6469	1.62(1.33-1.79)	
PCB-8L											
234.0406	16:50	16:50	1	1.201	293687	71243	607	1517	117		M
236.0376	16:50	16:50	1	1.201	173668	43976	143	357	308	1.69(1.33-1.79)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:54	19:54	0	1.244	5436766	1281103	607	1517	2111		
236.0376	19:54	19:54	0	1.244	3369416	808128	143	357	5651	1.61(1.33-1.79)	
PCB-4											
222.0003	14:03	14:02	1	1.002	208778	67621	40	100	1691		
223.9974	14:03	14:02	1	1.002	128575	43034	96	240	448	1.62(1.33-1.79)	
PCB-10											
222.0003	14:13	14:13	0	1.013	296290	90628	40	100	2266		
223.9974	14:13	14:13	1	1.014	175545	53642	96	240	559	1.69(1.33-1.79)	
PCB-9											
222.0003	16:01	16:00	1	1.142	318843	94374	40	100	2359		
223.9974	16:01	16:00	1	1.142	195283	57100	96	240	595	1.63(1.33-1.79)	
PCB-7											
222.0003	16:11	16:10	1	1.154	290711	80729	40	100	2018		
223.9974	16:10	16:10	0	1.153	186130	49671	96	240	517	1.56(1.33-1.79)	
PCB-6											
222.0003	16:25	16:25	0	1.171	322293	89922	40	100	2248		
223.9974	16:25	16:25	0	1.171	195532	56301	96	240	586	1.65(1.33-1.79)	
PCB-5											
222.0003	16:43	16:43	0	1.192	278025	76844	40	100	1921		
223.9974	16:43	16:43	0	1.192	179454	50186	96	240	523	1.55(1.33-1.79)	
PCB-8											
222.0003	16:51	16:50	1	1.202	341074	94951	40	100	2374		
223.9974	16:51	16:50	1	1.202	211588	58210	96	240	606	1.61(1.33-1.79)	
PCB-14											
222.0003	18:28	18:28	1	0.928	301013	75875	40	100	1897		
223.9974	18:28	18:28	1	0.928	191899	48485	96	240	505	1.57(1.33-1.79)	
PCB-11											
222.0003	19:19	19:18	1	0.970	279665	67757	40	100	1694		
223.9974	19:19	19:18	1	0.970	173153	43370	96	240	452	1.62(1.33-1.79)	
PCB-12											
222.0003	19:37	19:36	1	0.985	576081	91223	40	100	2281		
223.9974	19:37	19:36	1	0.985	367376	62421	96	240	650	1.57(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:37	19:36	1	0.985	576081	91223	40	100	2281		
223.9974	19:37	19:36	1	0.985	367376	62421	96	240	650	1.57(1.33-1.79)	
PCB-15											
222.0003	19:56	19:55	1	1.001	342689	78810	40	100	1970		
223.9974	19:56	19:55	1	1.001	209597	47667	96	240	497	1.63(1.33-1.79)	
PCB-19L											
268.0016	17:08	17:08	0	0.840	1750048	474000	432	1080	1097		
269.9986	17:08	17:08	0	0.840	1639434	450604	931	2327	484	1.07(0.88-1.20)	
PCB-32L											
268.0016	20:24	20:23	1		2738272	653918	432	1080	1514		
269.9986	20:24	20:23	1		2544022	632244	931	2327	679	1.08(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:39	22:38	1		7854722	1789792	784	1960	2283		
269.9986	22:39	22:38	1		7420482	1696801	308	770	5509	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:56	0	1.012	471644	101939	784	1960	130		
269.9986	22:56	22:56	0	1.012	458677	92446	308	770	300	1.03(0.88-1.20)	
PCB-37L											
268.0016	26:56	26:55	1	1.189	6766129	1364501	784	1960	1740		
269.9986	26:56	26:55	1	1.189	6348781	1273491	308	770	4135	1.07(0.88-1.20)	
PCB-19											
255.9613	17:09	17:09	1	1.002	117119	32603	58	145	562		
257.9584	17:09	17:09	1	1.002	98857	28343	19	47	1492	1.18(0.88-1.20)	
PCB-18											
255.9613	19:00	18:59	1	1.109	301119	59266	58	145	1022		
257.9584	18:59	18:59	0	1.108	287561	56176	19	47	2957	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:00	18:59	1	1.109	301119	59266	58	145	1022		
257.9584	18:59	18:59	0	1.108	287561	56176	19	47	2957	1.05(0.88-1.20)	
PCB-17											
255.9613	19:26	19:26	0	1.134	106250	27677	58	145	477		
257.9584	19:26	19:26	0	1.134	99914	23891	19	47	1257	1.06(0.88-1.20)	
PCB-27											
255.9613	19:39	19:39	1	1.147	166283	41594	58	145	717		
257.9584	19:39	19:39	1	1.147	144258	35494	19	47	1868	1.15(0.88-1.20)	
PCB-24											
255.9613	19:46	19:46	1	1.154	144776	39138	58	145	675		
257.9584	19:46	19:46	1	1.154	131683	31130	19	47	1638	1.10(0.88-1.20)	
PCB-16											
255.9613	19:54	19:53	1	1.161	97085	23764	58	145	410		
257.9584	19:54	19:53	1	1.161	92125	22662	19	47	1193	1.05(0.88-1.20)	
PCB-32											
255.9613	20:24	20:23	1	1.191	160625	37149	58	145	641		
257.9584	20:24	20:23	1	1.191	149433	35548	19	47	1871	1.07(0.88-1.20)	
PCB-34											
255.9613	21:40	21:39	1	1.265	376163	90530	541	1352	167		
257.9584	21:40	21:39	1	1.265	365785	90351	796	1990	114	1.03(0.88-1.20)	
PCB-23											
255.9613	21:49	21:48	0	1.273	362124	84557	541	1352	156		
257.9584	21:49	21:48	1	1.274	347900	85057	796	1990	107	1.04(0.88-1.20)	
PCB-26											
255.9613	22:08	22:08	0	1.292	725874	149187	541	1352	276		
257.9584	22:08	22:08	1	1.293	700309	145291	796	1990	183	1.04(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:08	22:08	0	1.292	725874	149187	541	1352	276		
257.9584	22:08	22:08	1	1.293	700309	145291	796	1990	183	1.04(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:22	22:21	1	0.830	416150	93553	541	1352	173		
257.9584	22:22	22:21	1	0.830	382063	86007	796	1990	108	1.09(0.88-1.20)	
PCB-31											
255.9613	22:40	22:40	0	0.841	383294	90540	541	1352	167		
257.9584	22:40	22:40	0	0.841	361680	90311	796	1990	113	1.06(0.88-1.20)	
PCB-20											
255.9613	22:58	22:58	0	0.853	759392	143646	541	1352	266		
257.9584	22:58	22:58	0	0.853	724429	135337	796	1990	170	1.05(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:58	22:58	0	0.853	759392	143646	541	1352	266		
257.9584	22:58	22:58	0	0.853	724429	135337	796	1990	170	1.05(0.88-1.20)	
PCB-21											
255.9613	23:08	23:07	1	0.859	720072	85196	541	1352	157		M
257.9584	23:08	23:07	1	0.859	683628	84601	796	1990	106	1.05(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:08	23:07	1	0.859	720072	85196	541	1352	157		M
257.9584	23:08	23:07	1	0.859	683628	84601	796	1990	106	1.05(0.88-1.20)	M
PCB-22											
255.9613	23:35	23:35	0	0.876	377463	80781	541	1352	149		
257.9584	23:36	23:35	1	0.876	362206	78952	796	1990	99	1.04(0.88-1.20)	
PCB-36											
255.9613	25:10	25:09	1	0.934	375707	72079	541	1352	133		
257.9584	25:10	25:09	1	0.934	355747	70158	796	1990	88	1.06(0.88-1.20)	
PCB-39											
255.9613	25:31	25:30	1	0.947	389975	83464	541	1352	154		
257.9584	25:30	25:30	0	0.947	370190	76330	796	1990	96	1.05(0.88-1.20)	
PCB-38											
255.9613	26:06	26:05	1	0.969	344389	71618	541	1352	132		
257.9584	26:05	26:05	0	0.968	335953	66695	796	1990	84	1.03(0.88-1.20)	
PCB-35											
255.9613	26:33	26:32	1	0.986	360533	69846	541	1352	129		
257.9584	26:33	26:32	1	0.986	360561	70952	796	1990	89	1.00(0.88-1.20)	
PCB-37											
255.9613	26:57	26:57	0	1.000	358978	71807	541	1352	133		
257.9584	26:57	26:57	0	1.000	364514	71310	796	1990	90	0.98(0.88-1.20)	
PCB-54L											
301.9626	20:12	20:12	0	0.816	1252154	304647	106	265	2874		M
303.9597	20:12	20:12	0	0.816	1551267	378908	25	62	15156	0.81(0.65-0.89)	M
PCB-52L											
301.9626	24:47	24:46	0		3402393	752939	510	1275	1476		
303.9597	24:47	24:46	0		4282417	941029	710	1775	1325	0.79(0.65-0.89)	
PCB-79L											
301.9626	32:42	32:41	1	0.971	232703	44353	510	1275	87		
303.9597	32:42	32:41	1	0.971	271329	50496	710	1775	71	0.86(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:41	33:41	0	1.359	4182792	794399	510	1275	1558		
303.9597	33:41	33:41	0	1.359	5228529	997351	710	1775	1405	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:15	34:14	0	1.382	4525431	840769	510	1275	1649		
303.9597	34:15	34:14	0	1.382	5511208	1036946	710	1775	1460	0.82(0.65-0.89)	
PCB-54											
289.9224	20:14	20:13	1	1.000	86078	20816	6	15	3469		
291.9194	20:14	20:13	1	1.000	101723	25411	40	100	635	0.85(0.65-0.89)	
PCB-50											
289.9224	22:25	22:24	1	1.109	349447	70029	495	1237	141		
291.9194	22:25	22:24	1	1.109	448510	96431	666	1665	145	0.78(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:25	22:24	1	1.109	349447	70029	495	1237	141		
291.9194	22:25	22:24	1	1.109	448510	96431	666	1665	145	0.78(0.65-0.89)	
PCB-45											
289.9224	23:08	23:08	0	1.145	337953	44319	495	1237	90		M
291.9194	23:08	23:08	0	1.145	450602	57689	666	1665	87	0.75(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:08	23:08	0	1.145	337953	44319	495	1237	90		M
291.9194	23:08	23:08	0	1.145	450602	57689	666	1665	87	0.75(0.65-0.89)	M
PCB-46											
289.9224	23:23	23:22	1	1.157	152416	34946	495	1237	71		
291.9194	23:23	23:22	1	1.157	188358	45442	666	1665	68	0.81(0.65-0.89)	
PCB-52											
289.9224	24:48	24:47	1	1.227	190732	46476	495	1237	94		
291.9194	24:48	24:47	1	1.227	249097	56499	666	1665	85	0.77(0.65-0.89)	
PCB-43											
289.9224	24:57	24:56	0	1.234	423345	55176	495	1237	111		M
291.9194	24:57	24:56	0	1.234	551591	70896	666	1665	106	0.77(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:57	24:56	0	1.234	423345	55176	495	1237	111		M
291.9194	24:57	24:56	0	1.234	551591	70896	666	1665	106	0.77(0.65-0.89)	M
PCB-49											
289.9224	25:14	25:14	0	1.249	438512	68183	495	1237	138		
291.9194	25:14	25:14	0	1.249	564448	84437	666	1665	127	0.78(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:14	25:14	0	1.249	438512	68183	495	1237	138		
291.9194	25:14	25:14	0	1.249	564448	84437	666	1665	127	0.78(0.65-0.89)	
PCB-48											
289.9224	25:33	25:33	0	1.265	182905	40157	495	1237	81		
291.9194	25:33	25:33	0	1.265	218889	45951	666	1665	69	0.84(0.65-0.89)	
PCB-44											
289.9224	25:48	25:48	0	1.277	590396	103100	495	1237	208		
291.9194	25:48	25:48	0	1.277	753852	131966	666	1665	198	0.78(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:48	25:48	0	1.277	590396	103100	495	1237	208		
291.9194	25:48	25:48	0	1.277	753852	131966	666	1665	198	0.78(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:48	25:48	0	1.277	590396	103100	495	1237	208		
291.9194	25:48	25:48	0	1.277	753852	131966	666	1665	198	0.78(0.65-0.89)	
PCB-59											
289.9224	26:07	26:06	1	1.293	702045	101885	495	1237	206		
291.9194	26:06	26:06	0	1.292	895913	126740	666	1665	190	0.78(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:07	26:06	1	1.293	702045	101885	495	1237	206		
291.9194	26:06	26:06	0	1.292	895913	126740	666	1665	190	0.78(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:07	26:06	1	1.293	702045	101885	495	1237	206		
291.9194	26:06	26:06	0	1.292	895913	126740	666	1665	190	0.78(0.65-0.89)	
PCB-42											
289.9224	26:19	26:18	1	1.303	168333	35093	495	1237	71		
291.9194	26:19	26:18	1	1.303	230321	47146	666	1665	71	0.73(0.65-0.89)	
PCB-40											
289.9224	26:49	26:48	0	1.327	536815	83423	495	1237	169		M
291.9194	26:49	26:48	0	1.327	706287	104766	666	1665	157	0.76(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:49	26:48	0	1.327	536815	83423	495	1237	169		M
291.9194	26:49	26:48	0	1.327	706287	104766	666	1665	157	0.76(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:49	26:48	0	1.327	536815	83423	495	1237	169		M
291.9194	26:49	26:48	0	1.327	706287	104766	666	1665	157	0.76(0.65-0.89)	M
PCB-64											
289.9224	27:02	27:01	1	1.338	239365	52530	495	1237	106		
291.9194	27:02	27:01	1	1.338	310296	66835	666	1665	100	0.77(0.65-0.89)	
PCB-72											
289.9224	27:52	27:51	0	0.827	244916	51285	495	1237	104		
291.9194	27:52	27:51	1	0.828	283932	62962	666	1665	95	0.86(0.65-0.89)	
PCB-68											
289.9224	28:09	28:09	0	0.836	277293	56694	495	1237	115		
291.9194	28:09	28:09	0	0.836	341572	68869	666	1665	103	0.81(0.65-0.89)	
PCB-57											
289.9224	28:35	28:34	1	0.848	227257	45523	495	1237	92		
291.9194	28:35	28:34	1	0.848	288014	60702	666	1665	91	0.79(0.65-0.89)	
PCB-58											
289.9224	28:49	28:48	1	0.856	273402	56373	495	1237	114		
291.9194	28:49	28:48	1	0.856	365508	73610	666	1665	111	0.75(0.65-0.89)	
PCB-67											
289.9224	28:58	28:58	0	0.860	296615	57715	495	1237	117		
291.9194	28:58	28:58	0	0.860	366340	69216	666	1665	104	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:14	29:14	1	0.868	237799	45285	495	1237	91		
291.9194	29:14	29:14	1	0.868	306967	64033	666	1665	96	0.77(0.65-0.89)	
PCB-61											
289.9224	29:34	29:34	0	0.878	1056982	119547	495	1237	242		M
291.9194	29:34	29:34	0	0.878	1294324	148196	666	1665	223	0.82(0.65-0.89)	M
PCB-70 (C61)											
289.9224	29:34	29:34	0	0.878	1056982	119547	495	1237	242		M
291.9194	29:34	29:34	0	0.878	1294324	148196	666	1665	223	0.82(0.65-0.89)	M
PCB-74 (C61)											
289.9224	29:34	29:34	0	0.878	1056982	119547	495	1237	242		M
291.9194	29:34	29:34	0	0.878	1294324	148196	666	1665	223	0.82(0.65-0.89)	M
PCB-76 (C61)											
289.9224	29:34	29:34	0	0.878	1056982	119547	495	1237	242		M
291.9194	29:34	29:34	0	0.878	1294324	148196	666	1665	223	0.82(0.65-0.89)	M
PCB-66											
289.9224	29:54	29:53	1	0.888	266136	52281	495	1237	106		
291.9194	29:54	29:53	0	0.888	334857	69429	666	1665	104	0.79(0.65-0.89)	
PCB-55											
289.9224	30:04	30:03	1	0.892	282242	56944	495	1237	115		
291.9194	30:04	30:03	1	0.892	347842	74275	666	1665	112	0.81(0.65-0.89)	
PCB-56											
289.9224	30:34	30:33	1	0.908	258842	53078	495	1237	107		M
291.9194	30:34	30:33	1	0.908	318235	66404	666	1665	100	0.81(0.65-0.89)	M
PCB-60											
289.9224	30:47	30:46	0	0.914	228596	47611	495	1237	96		
291.9194	30:47	30:46	1	0.914	282203	54459	666	1665	82	0.81(0.65-0.89)	
PCB-80											
289.9224	31:12	31:11	1	0.926	281507	52839	495	1237	107		
291.9194	31:12	31:11	1	0.926	337086	68438	666	1665	103	0.84(0.65-0.89)	
PCB-79											
289.9224	32:43	32:42	1	0.971	289310	52307	495	1237	106		
291.9194	32:43	32:42	1	0.971	366521	66349	666	1665	100	0.79(0.65-0.89)	
PCB-78											
289.9224	33:16	33:15	0	0.987	240561	46623	495	1237	94		M
291.9194	33:16	33:15	1	0.988	311315	58034	666	1665	87	0.77(0.65-0.89)	M
PCB-81											
289.9224	33:42	33:42	0	1.001	221876	44931	495	1237	91		M
291.9194	33:42	33:42	0	1.001	277706	53242	666	1665	80	0.80(0.65-0.89)	M
PCB-77											
289.9224	34:16	34:16	0	1.001	236724	43605	495	1237	88		
291.9194	34:16	34:16	0	1.001	283405	57023	666	1665	86	0.84(0.65-0.89)	
PCB-104L											
337.9207	25:43	25:42	0	0.813	3881748	846069	48	120	17626		
339.9178	25:43	25:42	0	0.813	2425553	526811	78	195	6754	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:41	28:41	0	1.115	147567	30011	48	120	625		
339.9178	28:41	28:41	0	1.115	86907	17374	78	195	223	1.70(1.32-1.78)	
PCB-101L											
337.9207	31:37	31:37	0		3082346	624295	48	120	13006		
339.9178	31:37	31:37	0		1926429	385938	78	195	4948	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:18	34:17	1	1.085	242976	48695	48	120	1014		
339.9178	34:18	34:17	1	1.085	151339	30118	78	195	386	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	1	1.147	5721133	1109523	5300	13250	209		
339.9178	36:15	36:15	1	1.147	3600829	698691	3281	8202	213	1.59(1.32-1.78)	
PCB-118L											
337.9207	36:35	36:34	1	1.157	6092251	1157981	5300	13250	218		
339.9178	36:35	36:34	1	1.157	3855934	740169	3281	8202	226	1.58(1.32-1.78)	
PCB-114L											
337.9207	37:07	37:06	1	1.174	5794168	1134432	5300	13250	214		
339.9178	37:07	37:06	1	1.174	3593450	696833	3281	8202	212	1.61(1.32-1.78)	
PCB-105L											
337.9207	37:45	37:45	1	1.194	5589374	1048617	5300	13250	198		
339.9178	37:45	37:45	1	1.194	3498501	668548	3281	8202	204	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:14	39:14	1		5780307	1112193	5300	13250	210		
339.9178	39:14	39:14	1		3605190	693455	3281	8202	211	1.60(1.32-1.78)	
PCB-126L											
337.9207	40:51	40:50	1	1.292	5507935	1037098	5300	13250	196		
339.9178	40:51	40:50	1	1.292	3437700	644438	3281	8202	196	1.60(1.32-1.78)	
PCB-104											
325.8804	25:44	25:44	0	1.001	186976	43535	7	17	6219		
327.8775	25:45	25:44	1	1.001	119074	25392	8	20	3174	1.57(1.32-1.78)	
PCB-96											
325.8804	26:06	26:06	0	1.015	211295	44931	7	17	6419		
327.8775	26:06	26:06	0	1.015	127376	29456	8	20	3682	1.66(1.32-1.78)	
PCB-103											
325.8804	28:03	28:02	1	1.091	169216	36556	7	17	5222		
327.8775	28:02	28:02	0	1.091	103507	22398	8	20	2800	1.63(1.32-1.78)	
PCB-94											
325.8804	28:15	28:16	-1	1.099	146664	28127	7	17	4018		
327.8775	28:17	28:16	1	1.100	96690	20752	8	20	2594	1.52(1.32-1.78)	
PCB-95											
325.8804	28:42	28:42	0	1.116	153284	31365	7	17	4481		
327.8775	28:43	28:42	1	1.117	94034	19388	8	20	2424	1.63(1.32-1.78)	
PCB-93											
325.8804	28:56	28:55	1	1.125	308618	62117	7	17	8874		
327.8775	28:55	28:55	0	1.125	199859	39477	8	20	4935	1.54(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:56	28:55	1	1.125	308618	62117	7	17	8874		
327.8775	28:55	28:55	0	1.125	199859	39477	8	20	4935	1.54(1.32-1.78)	
PCB-98											
325.8804	29:05	29:04	1	1.131	327154	40323	7	17	5760		M
327.8775	29:07	29:04	2	1.132	199350	23698	8	20	2962	1.64(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:05	29:04	1	1.131	327154	40323	7	17	5760		M
327.8775	29:07	29:04	2	1.132	199350	23698	8	20	2962	1.64(1.32-1.78)	M
PCB-88											
325.8804	29:28	29:33	-5	1.146	306322	35360	7	17	5051		M
327.8775	29:28	29:33	-5	1.146	191203	22183	8	20	2773	1.60(1.32-1.78)	M
PCB-91 (C88)											
325.8804	29:28	29:33	-5	1.146	306322	35360	7	17	5051		M
327.8775	29:28	29:33	-5	1.146	191203	22183	8	20	2773	1.60(1.32-1.78)	M
PCB-84											
325.8804	29:47	29:47	0	1.159	139124	31137	7	17	4448		
327.8775	29:48	29:47	1	1.159	86613	15623	8	20	1953	1.61(1.32-1.78)	
PCB-89											
325.8804	30:17	30:16	1	1.178	150039	30987	7	17	4427		
327.8775	30:17	30:16	1	1.178	95497	19480	8	20	2435	1.57(1.32-1.78)	
PCB-121											
325.8804	30:41	30:41	0	1.194	254278	49012	7	17	7002		
327.8775	30:41	30:41	0	1.194	152487	33141	8	20	4143	1.67(1.32-1.78)	
PCB-92											
325.8804	31:03	31:03	0	0.857	161862	31924	7	17	4561		
327.8775	31:03	31:03	0	0.857	99001	18723	8	20	2340	1.63(1.32-1.78)	
PCB-90											
325.8804	31:38	31:37	1	1.230	515884	71571	7	17	10224		
327.8775	31:37	31:37	0	1.230	338107	49260	8	20	6158	1.53(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:38	31:37	1	1.230	515884	71571	7	17	10224		
327.8775	31:37	31:37	0	1.230	338107	49260	8	20	6158	1.53(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:38	31:37	1	1.230	515884	71571	7	17	10224		
327.8775	31:37	31:37	0	1.230	338107	49260	8	20	6158	1.53(1.32-1.78)	
PCB-83											
325.8804	32:13	32:13	0	1.253	315858	39228	7	17	5604		M
327.8775	32:14	32:13	1	1.254	213034	26549	8	20	3319	1.48(1.32-1.78)	M
PCB-99 (C83)											
325.8804	32:13	32:13	0	1.253	315858	39228	7	17	5604		M
327.8775	32:14	32:13	1	1.254	213034	26549	8	20	3319	1.48(1.32-1.78)	M
PCB-112											
325.8804	32:20	32:20	0	1.258	276124	52961	7	17	7566		
327.8775	32:20	32:20	0	1.258	161358	32769	8	20	4096	1.71(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-85											M
325.8804	33:26	33:25	1	1.301	572951	68989	7	17	9856		M
327.8775	33:25	33:25	0	1.300	365388	44101	8	20	5513	1.57(1.32-1.78)	M
PCB-116 (C85)											M
325.8804	33:26	33:25	1	1.301	572951	68989	7	17	9856		M
327.8775	33:25	33:25	0	1.300	365388	44101	8	20	5513	1.57(1.32-1.78)	M
PCB-117 (C85)											M
325.8804	33:26	33:25	1	1.301	572951	68989	7	17	9856		M
327.8775	33:25	33:25	0	1.300	365388	44101	8	20	5513	1.57(1.32-1.78)	M
PCB-110											M
325.8804	33:38	33:37	1	1.308	450836	56423	7	17	8060		M
327.8775	33:37	33:37	0	1.308	283256	35316	8	20	4415	1.59(1.32-1.78)	M
PCB-115 (C110)											M
325.8804	33:38	33:37	1	1.308	450836	56423	7	17	8060		M
327.8775	33:37	33:37	0	1.308	283256	35316	8	20	4415	1.59(1.32-1.78)	M
PCB-82											
325.8804	33:56	33:55	1	1.320	154740	30208	7	17	4315		
327.8775	33:56	33:55	1	1.320	102893	18521	8	20	2315	1.50(1.32-1.78)	
PCB-111											
325.8804	34:20	34:19	1	1.335	231300	43572	7	17	6225		
327.8775	34:20	34:19	1	1.335	135627	27334	8	20	3417	1.71(1.32-1.78)	
PCB-120											
325.8804	34:48	34:47	1	1.353	277232	56635	7	17	8091		
327.8775	34:47	34:47	0	1.353	169266	31899	8	20	3987	1.64(1.32-1.78)	
PCB-108											
325.8804	35:56	35:55	1	1.397	633210	120591	457	1142	264		
327.8775	35:56	35:55	1	1.397	400852	82829	489	1222	169	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:56	35:55	1	1.397	633210	120591	457	1142	264		
327.8775	35:56	35:55	1	1.397	400852	82829	489	1222	169	1.58(1.32-1.78)	
PCB-107											
325.8804	36:11	36:09	1	1.407	347753	64872	457	1142	142		
327.8775	36:11	36:09	1	1.407	228528	39698	489	1222	81	1.52(1.32-1.78)	
PCB-123											
325.8804	36:17	36:16	1	1.001	269548	57290	457	1142	125		
327.8775	36:17	36:16	1	1.001	175101	38086	489	1222	78	1.54(1.32-1.78)	
PCB-106											
325.8804	36:24	36:23	1	1.004	301102	59410	457	1142	130		
327.8775	36:24	36:23	1	1.004	200370	37243	489	1222	76	1.50(1.32-1.78)	
PCB-118											
325.8804	36:37	36:36	1	1.001	354441	65239	457	1142	143		
327.8775	36:37	36:36	1	1.001	225168	40733	489	1222	83	1.57(1.32-1.78)	
PCB-122											
325.8804	36:57	36:56	1	1.010	248046	48486	457	1142	106		
327.8775	36:58	36:56	1	1.010	168706	33212	489	1222	68	1.47(1.32-1.78)	
PCB-114											
325.8804	37:08	37:08	1	1.001	292014	54549	457	1142	119		
327.8775	37:08	37:08	1	1.001	204681	36808	489	1222	75	1.43(1.32-1.78)	
PCB-105											
325.8804	37:47	37:46	1	1.001	313087	53355	457	1142	117		M
327.8775	37:47	37:46	1	1.001	200314	35951	489	1222	74	1.56(1.32-1.78)	M
PCB-127											
325.8804	39:15	39:15	1	1.040	305265	60531	457	1142	132		M
327.8775	39:16	39:15	1	1.040	200669	36418	489	1222	74	1.52(1.32-1.78)	M
PCB-126											
325.8804	40:51	40:52	0	1.000	294816	50918	457	1142	111		
327.8775	40:52	40:52	1	1.001	188423	29809	489	1222	61	1.56(1.32-1.78)	
PCB-155L											
371.8817	31:23	31:23	0	0.790	3191945	653123	101	252	6467		
373.8788	31:23	31:23	0	0.790	2516693	521851	55	137	9488	1.27(1.05-1.43)	
PCB-153L											
371.8817	38:28	38:27	1	0.901	249993	46907	3297	8242	14		
373.8788	38:29	38:27	1	0.901	194763	37560	246	615	153	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:43	39:41	1		3594734	673228	3297	8242	204		
373.8788	39:43	39:41	1		2836869	542464	246	615	2205	1.27(1.05-1.43)	
PCB-159L											
371.8817	41:57	41:56	1	0.982	4130110	775457	3297	8242	235		
373.8788	41:57	41:56	1	0.982	3171044	598343	246	615	2432	1.30(0.00-0.00)	
PCB-167L											
371.8817	42:43	42:42	1	1.076	4598262	869516	3297	8242	264		
373.8788	42:43	42:42	1	1.076	3552121	672708	246	615	2735	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156L											
371.8817	43:52	43:51	1	1.105	8996966	1204979	3297	8242	365		
373.8788	43:52	43:51	1	1.105	6997869	939579	246	615	3819	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:52	43:51	1	1.105	8996966	1204979	3297	8242	365		
373.8788	43:52	43:51	1	1.105	6997869	939579	246	615	3819	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:06	47:05	1	1.186	4415953	782684	3297	8242	237		
373.8788	47:06	47:05	1	1.186	3428332	614023	246	615	2496	1.29(1.05-1.43)	
PCB-155											
359.8415	31:25	31:25	0	1.001	146365	30837	19	47	1623		
361.8385	31:25	31:25	0	1.001	123487	25890	7	17	3699	1.19(1.05-1.43)	
PCB-152											
359.8415	31:37	31:36	2	1.007	155611	29885	19	47	1573		
361.8385	31:37	31:36	1	1.007	124834	25329	7	17	3618	1.25(1.05-1.43)	
PCB-150											
359.8415	31:47	31:46	1	1.013	159363	32797	19	47	1726		
361.8385	31:47	31:46	1	1.013	133526	28760	7	17	4109	1.19(1.05-1.43)	
PCB-136											
359.8415	32:09	32:08	1	1.024	156399	31550	19	47	1661		
361.8385	32:08	32:08	0	1.024	114399	22324	7	17	3189	1.37(1.05-1.43)	
PCB-145											
359.8415	32:26	32:25	1	1.033	158361	28358	19	47	1493		
361.8385	32:26	32:25	1	1.033	116672	23514	7	17	3359	1.36(1.05-1.43)	
PCB-148											
359.8415	33:58	33:57	1	1.082	124180	24345	19	47	1281		
361.8385	33:57	33:57	0	1.082	90881	18932	7	17	2705	1.37(1.05-1.43)	
PCB-135											
359.8415	34:35	34:32	3	1.101	230863	27281	19	47	1436		
361.8385	34:36	34:32	4	1.102	172339	20433	7	17	2919	1.34(1.05-1.43)	
PCB-151 (C135)											
359.8415	34:35	34:32	3	1.101	230863	27281	19	47	1436		
361.8385	34:36	34:32	4	1.102	172339	20433	7	17	2919	1.34(1.05-1.43)	
PCB-154											
359.8415	34:48	34:47	0	1.108	129876	24249	19	47	1276		
361.8385	34:48	34:47	1	1.109	98346	19667	7	17	2810	1.32(1.05-1.43)	
PCB-144											
359.8415	35:06	35:06	0	1.118	122737	25173	19	47	1325		
361.8385	35:06	35:06	0	1.118	94988	20050	7	17	2864	1.29(1.05-1.43)	
PCB-147											
359.8415	35:28	35:27	1	1.130	381464	74872	121	302	619		
361.8385	35:28	35:27	1	1.130	293688	56956	163	407	349	1.30(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:28	35:27	1	1.130	381464	74872	121	302	619		
361.8385	35:28	35:27	1	1.130	293688	56956	163	407	349	1.30(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-134											
359.8415	35:46	35:45	1	1.139	353767	37506	121	302	310		
361.8385	35:46	35:45	1	1.139	286849	28767	163	407	176	1.23(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:46	35:45	1	1.139	353767	37506	121	302	310		
361.8385	35:46	35:45	1	1.139	286849	28767	163	407	176	1.23(1.05-1.43)	
PCB-139											
359.8415	36:03	36:04	0	1.149	374008	66042	121	302	546		
361.8385	36:03	36:04	0	1.149	299520	54635	163	407	335	1.25(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:03	36:04	0	1.149	374008	66042	121	302	546		
361.8385	36:03	36:04	0	1.149	299520	54635	163	407	335	1.25(1.05-1.43)	
PCB-131											
359.8415	36:15	36:15	0	1.155	167426	32344	121	302	267		
361.8385	36:15	36:15	0	1.155	122239	24629	163	407	151	1.37(1.05-1.43)	
PCB-142											
359.8415	36:24	36:24	0	1.160	160770	32238	121	302	266		
361.8385	36:24	36:24	0	1.160	140396	27366	163	407	168	1.15(1.05-1.43)	
PCB-132											
359.8415	36:45	36:43	1	1.171	168533	30042	121	302	248		
361.8385	36:44	36:43	1	1.170	132045	26582	163	407	163	1.28(1.05-1.43)	
PCB-133											
359.8415	37:14	37:14	0	1.186	181369	34481	121	302	285		
361.8385	37:14	37:14	1	1.186	146764	27536	163	407	169	1.24(1.05-1.43)	
PCB-165											
359.8415	37:37	37:37	1	0.881	230109	43848	121	302	362		
361.8385	37:37	37:37	1	0.881	178310	35310	163	407	217	1.29(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	0	0.887	208795	44241	121	302	366		
361.8385	37:52	37:52	0	0.887	169864	33969	163	407	208	1.23(1.05-1.43)	
PCB-161											
359.8415	38:01	38:00	1	0.890	245903	49523	121	302	409		
361.8385	38:00	38:00	1	0.890	192907	36042	163	407	221	1.27(1.05-1.43)	
PCB-153											
359.8415	38:31	38:30	1	0.902	500662	70429	121	302	582		
361.8385	38:31	38:30	1	0.902	392845	56970	163	407	350	1.27(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:31	38:30	1	0.902	500662	70429	121	302	582		
361.8385	38:31	38:30	1	0.902	392845	56970	163	407	350	1.27(1.05-1.43)	
PCB-141											
359.8415	38:41	38:41	1	0.906	191260	36313	121	302	300		
361.8385	38:41	38:41	1	0.906	147202	27486	163	407	169	1.30(1.05-1.43)	
PCB-130											
359.8415	39:06	39:05	1	0.915	159580	30854	121	302	255		
361.8385	39:05	39:05	0	0.915	119653	24028	163	407	147	1.33(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-137											
359.8415	39:18	39:18	1	0.920	178439	33642	121	302	278		
361.8385	39:19	39:18	1	0.921	140011	24900	163	407	153	1.27(1.05-1.43)	
PCB-164											
359.8415	39:26	39:26	1	0.923	225567	43573	121	302	360		
361.8385	39:25	39:26	0	0.923	175238	35230	163	407	216	1.29(1.05-1.43)	
PCB-129											
359.8415	39:44	39:44	1	0.930	820981	94717	121	302	783		M
361.8385	39:45	39:44	1	0.931	652288	70975	163	407	435	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:44	39:44	1	0.930	820981	94717	121	302	783		M
361.8385	39:45	39:44	1	0.931	652288	70975	163	407	435	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:44	39:44	1	0.930	820981	94717	121	302	783		M
361.8385	39:45	39:44	1	0.931	652288	70975	163	407	435	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:44	39:44	1	0.930	820981	94717	121	302	783		M
361.8385	39:45	39:44	1	0.931	652288	70975	163	407	435	1.26(1.05-1.43)	M
PCB-158											
359.8415	40:07	40:07	1	0.939	279147	50086	121	302	414		
361.8385	40:08	40:07	1	0.940	230815	41052	163	407	252	1.21(1.05-1.43)	
PCB-128											
359.8415	40:58	40:57	1	0.959	407125	61166	121	302	506		
361.8385	40:59	40:57	1	0.959	340783	47990	163	407	294	1.19(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:58	40:57	1	0.959	407125	61166	121	302	506		
361.8385	40:59	40:57	1	0.959	340783	47990	163	407	294	1.19(1.05-1.43)	
PCB-159											
359.8415	41:59	41:58	1	0.983	313916	56405	121	302	466		
361.8385	41:58	41:58	0	0.982	244148	44216	163	407	271	1.29(1.05-1.43)	
PCB-162											
359.8415	42:16	42:15	1	0.990	282117	47612	121	302	393		
361.8385	42:16	42:15	1	0.990	231552	42164	163	407	259	1.22(1.05-1.43)	
PCB-167											
359.8415	42:44	42:44	1	1.001	258895	46328	121	302	383		
361.8385	42:44	42:44	1	1.001	206072	36518	163	407	224	1.26(1.05-1.43)	
PCB-156											
359.8415	43:54	43:53	1	1.001	497271	68641	121	302	567		
361.8385	43:54	43:53	1	1.001	389200	53441	163	407	328	1.28(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:54	43:53	1	1.001	497271	68641	121	302	567		
361.8385	43:54	43:53	1	1.001	389200	53441	163	407	328	1.28(1.05-1.43)	
PCB-169											
359.8415	47:07	47:06	1	1.000	245688	38852	121	302	321		
361.8385	47:08	47:06	1	1.001	207250	34606	163	407	212	1.19(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:07	37:07	0	0.820	3447773	664072	119	297	5580		
407.8398	37:07	37:07	0	0.820	3216264	618371	47	117	13157	1.07(0.89-1.21)	
PCB-178L											
405.8428	40:10	40:10	0	0.887	152992	29193	119	297	245		
407.8398	40:11	40:10	1	0.888	137787	24843	47	117	529	1.11(0.89-1.21)	
PCB-180L											
405.8428	45:16	45:15	1		2568451	479811	119	297	4032		
407.8398	45:16	45:15	1		2451547	473161	47	117	10067	1.05(0.89-1.21)	
PCB-170L											
405.8428	46:31	46:30	1	1.028	2246991	415071	119	297	3488		
407.8398	46:31	46:30	1	1.028	2110843	394734	47	117	8399	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:38	49:37	1	1.096	5256701	939463	2325	5812	404		
407.8398	49:38	49:37	1	1.096	4979067	891104	1882	4705	473	1.06(0.89-1.21)	
PCB-188											
393.8025	37:08	37:08	0	1.001	202957	39936	1	2	39936		
395.7995	37:08	37:08	0	1.001	176918	34955	1	2	34955	1.15(0.89-1.21)	
PCB-179											
393.8025	37:28	37:28	0	1.010	202144	37551	1	2	37551		
395.7995	37:29	37:28	1	1.010	179599	34060	1	2	34060	1.13(0.89-1.21)	
PCB-184											
393.8025	38:00	38:00	1	1.024	191423	36695	1	2	36695		
395.7995	38:00	38:00	1	1.024	179025	35487	1	2	35487	1.07(0.89-1.21)	
PCB-176											
393.8025	38:22	38:21	1	1.034	169137	31683	1	2	31683		
395.7995	38:22	38:21	1	1.034	162714	30208	1	2	30208	1.04(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	1	1.046	199536	38220	1	2	38220		
395.7995	38:48	38:48	1	1.046	194846	39879	1	2	39879	1.02(0.89-1.21)	
PCB-178											
393.8025	40:11	40:11	0	1.083	122987	24074	1	2	24074		
395.7995	40:12	40:11	1	1.083	123642	23892	1	2	23892	0.99(0.89-1.21)	
PCB-175											
393.8025	40:49	40:49	0	1.100	131749	25500	1	2	25500		
395.7995	40:50	40:49	1	1.100	114438	23444	1	2	23444	1.15(0.89-1.21)	
PCB-187											
393.8025	41:06	41:05	1	1.107	149004	27678	1	2	27678		
395.7995	41:06	41:05	1	1.108	147373	24964	1	2	24964	1.01(0.89-1.21)	
PCB-182											
393.8025	41:18	41:18	1	1.113	137354	24767	1	2	24767		
395.7995	41:18	41:18	1	1.113	125655	23124	1	2	23124	1.09(0.89-1.21)	
PCB-183											
393.8025	41:42	41:42	0	1.124	261270	27747	1	2	27747		M
395.7995	41:42	41:42	0	1.124	244261	26436	1	2	26436	1.07(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											M
393.8025	41:42	41:42	0	1.124	261270	27747	1	2	27747		
395.7995	41:42	41:42	0	1.124	244261	26436	1	2	26436	1.07(0.89-1.21)	M
PCB-174											
393.8025	41:57	41:56	1	1.130	133000	23832	1	2	23832		
395.7995	41:57	41:56	1	1.130	125926	23720	1	2	23720	1.06(0.89-1.21)	
PCB-177											
393.8025	42:23	42:22	1	1.142	137500	23996	1	2	23996		
395.7995	42:23	42:22	1	1.142	127589	22906	1	2	22906	1.08(0.89-1.21)	
PCB-181											
393.8025	42:47	42:45	1	1.153	124663	21505	1	2	21505		
395.7995	42:46	42:45	1	1.152	118426	24242	1	2	24242	1.05(0.89-1.21)	
PCB-171											
393.8025	43:00	42:59	1	1.159	237291	39486	1	2	39486		
395.7995	43:00	42:59	1	1.159	228342	36877	1	2	36877	1.04(0.89-1.21)	
PCB-173 (C171)											
393.8025	43:00	42:59	1	1.159	237291	39486	1	2	39486		
395.7995	43:00	42:59	1	1.159	228342	36877	1	2	36877	1.04(0.89-1.21)	
PCB-172											
393.8025	44:38	44:37	1	0.899	121992	23675	1	2	23675		
395.7995	44:38	44:37	1	0.899	103874	19415	1	2	19415	1.17(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	1	0.905	186600	36146	1	2	36146		
395.7995	44:54	44:54	1	0.905	179581	36080	1	2	36080	1.04(0.89-1.21)	
PCB-180											
393.8025	45:16	45:14	1	0.912	318982	42811	1	2	42811		
395.7995	45:15	45:14	1	0.912	307645	41260	1	2	41260	1.04(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:16	45:14	1	0.912	318982	42811	1	2	42811		
395.7995	45:15	45:14	1	0.912	307645	41260	1	2	41260	1.04(0.89-1.21)	
PCB-191											
393.8025	45:39	45:37	1	0.920	179746	34821	1	2	34821		
395.7995	45:39	45:37	1	0.920	168660	29422	1	2	29422	1.07(0.89-1.21)	
PCB-170											
393.8025	46:32	46:32	1	0.938	126748	23322	1	2	23322		
395.7995	46:32	46:32	1	0.938	128475	25370	1	2	25370	0.99(0.89-1.21)	
PCB-190											M
393.8025	47:03	47:02	1	0.948	175590	31319	1	2	31319		M
395.7995	47:03	47:02	1	0.948	189120	35074	1	2	35074	0.93(0.89-1.21)	
PCB-189											
393.8025	49:39	49:38	1	1.001	249756	43600	171	427	255		
395.7995	49:39	49:38	1	1.001	243423	44158	168	420	263	1.03(0.89-1.21)	
PCB-202L											
439.8038	42:29	42:28	1	0.821	2457625	465504	42	105	11083		
441.8008	42:29	42:28	1	0.821	2631952	501789	25	62	20072	0.93(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:44	51:43	1		3403544	611705	258	645	2371		
441.8008	51:44	51:43	1		3762467	688622	178	445	3869	0.90(0.76-1.02)	
PCB-205L											
439.8038	52:13	52:11	1	1.009	4010000	709263	258	645	2749		
441.8008	52:12	52:11	1	1.009	4406261	783240	178	445	4400	0.91(0.76-1.02)	
PCB-202											
427.7635	42:31	42:29	1	1.001	124170	24684	1	2	24684		
429.7606	42:31	42:29	1	1.001	140298	26902	17	42	1582	0.89(0.76-1.02)	
PCB-201											
427.7635	43:25	43:25	1	1.022	118945	23475	1	2	23475		
429.7606	43:26	43:25	1	1.022	123249	23673	17	42	1393	0.97(0.76-1.02)	
PCB-204											
427.7635	44:06	44:05	1	1.038	121461	23572	1	2	23572		
429.7606	44:06	44:05	1	1.038	138222	26378	17	42	1552	0.88(0.76-1.02)	
PCB-197											
427.7635	44:21	44:19	1	1.044	128656	23432	1	2	23432		
429.7606	44:20	44:19	1	1.043	149488	28548	17	42	1679	0.86(0.76-1.02)	
PCB-200											
427.7635	44:26	44:25	1	1.046	128324	22713	1	2	22713		
429.7606	44:26	44:25	1	1.046	136366	25818	17	42	1519	0.94(0.76-1.02)	
PCB-198											
427.7635	47:13	47:12	1	1.111	200389	24926	1	2	24926		
429.7606	47:14	47:12	2	1.112	230004	28366	17	42	1669	0.87(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:13	47:12	1	1.111	200389	24926	1	2	24926		
429.7606	47:14	47:12	2	1.112	230004	28366	17	42	1669	0.87(0.76-1.02)	
PCB-196											
427.7635	47:54	47:53	1	0.917	95919	19254	1	2	19254		
429.7606	47:54	47:53	1	0.918	103060	20974	17	42	1234	0.93(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	1	0.921	115314	21075	1	2	21075		
429.7606	48:05	48:05	1	0.921	120493	22479	17	42	1322	0.96(0.76-1.02)	
PCB-195											
427.7635	49:25	49:23	1	0.946	169023	30667	149	372	206		
429.7606	49:25	49:23	1	0.946	179227	32664	188	470	174	0.94(0.76-1.02)	
PCB-194											
427.7635	51:46	51:44	1	0.991	191844	37266	149	372	250		
429.7606	51:46	51:44	1	0.991	202393	36860	188	470	196	0.95(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	1	1.000	215128	37851	149	372	254		
429.7606	52:13	52:13	1	1.000	233118	42488	188	470	226	0.92(0.76-1.02)	
PCB-208L											
473.7648	49:10	49:09	1	0.950	3068462	547353	455	1137	1203		
475.7619	49:09	49:09	1	0.950	3791189	695937	495	1237	1406	0.81(0.65-0.89)	

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Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-206L											
473.7648	53:58	53:57	1	1.043	2249970	404384	455	1137	889		
475.7619	53:58	53:57	1	1.043	2774741	498983	495	1237	1008	0.81(0.65-0.89)	
PCB-208											
461.7246	49:11	49:10	1	1.001	176905	32074	246	615	130		M
463.7216	49:11	49:10	1	1.000	222670	41885	615	1537	68	0.79(0.65-0.89)	M
PCB-207											
461.7246	50:07	50:05	1	1.019	175538	32184	246	615	131		M
463.7216	50:06	50:05	1	1.019	223758	40880	615	1537	66	0.78(0.65-0.89)	M
PCB-206											
461.7246	53:59	53:58	1	1.000	137945	24931	246	615	101		M
463.7216	53:59	53:58	1	1.000	179481	33079	615	1537	54	0.77(0.65-0.89)	M
PCB-209L											
507.7258	55:35	55:34	1	1.074	2024411	339274	109	272	3113		
509.7229	55:35	55:34	1	1.074	2865340	487443	113	282	4314	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:37	55:36	1	1.000	114777	18634	50	125	373		
497.6826	55:37	55:36	1	1.000	158569	25903	22	55	1177	0.72(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61L21668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

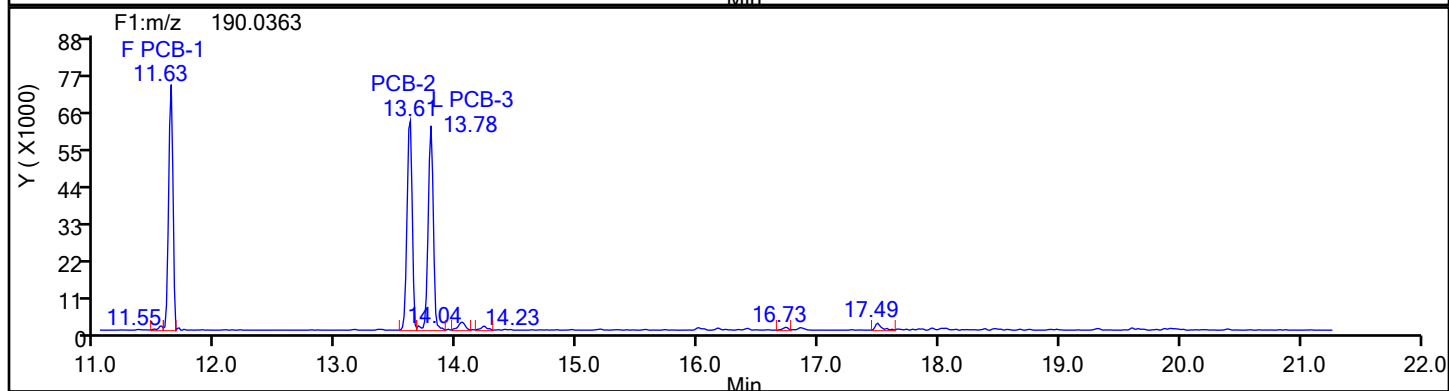
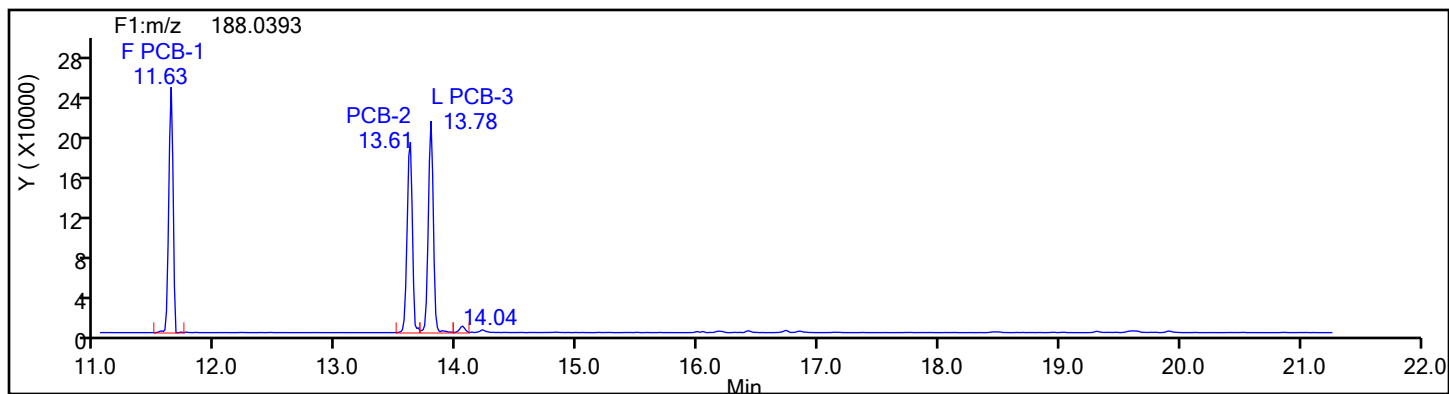
Worklist#: 87130

Sample Line#: 3

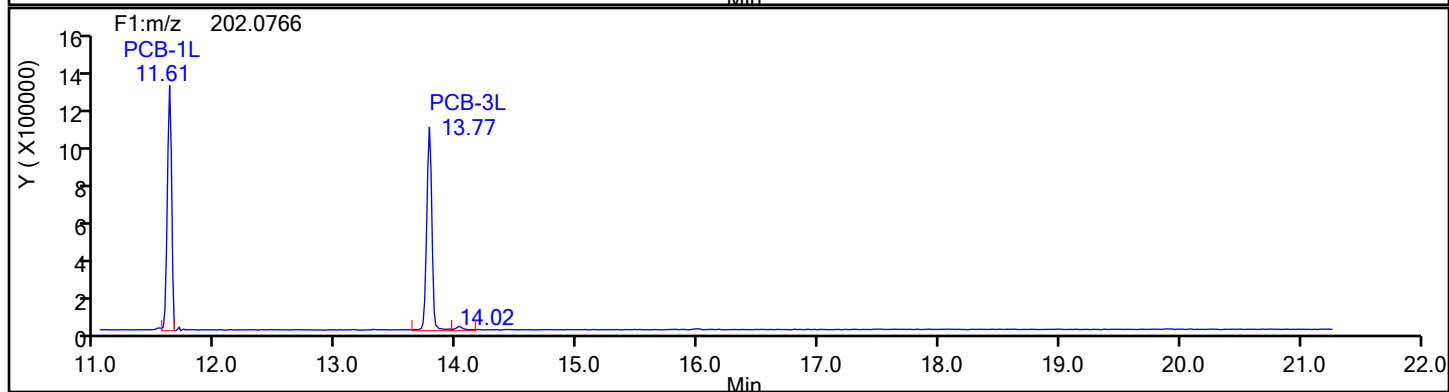
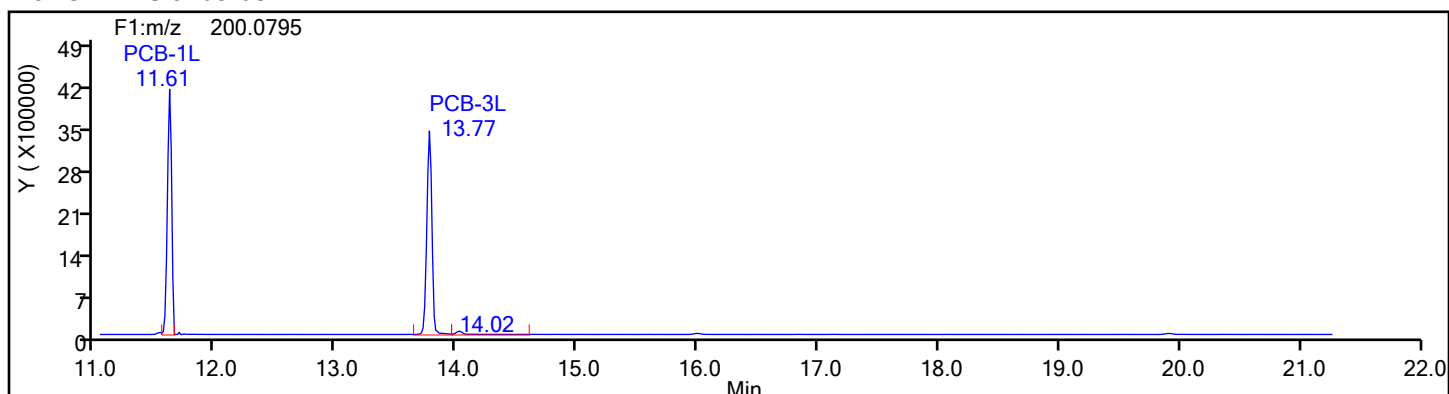
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Vol: 1.0 ul

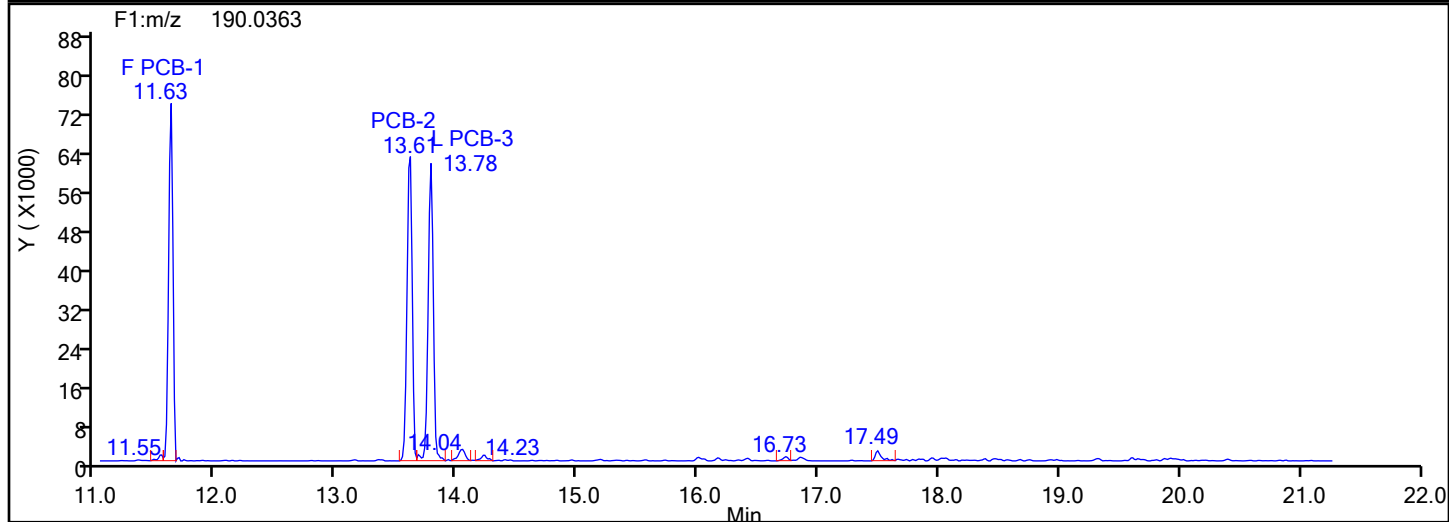
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

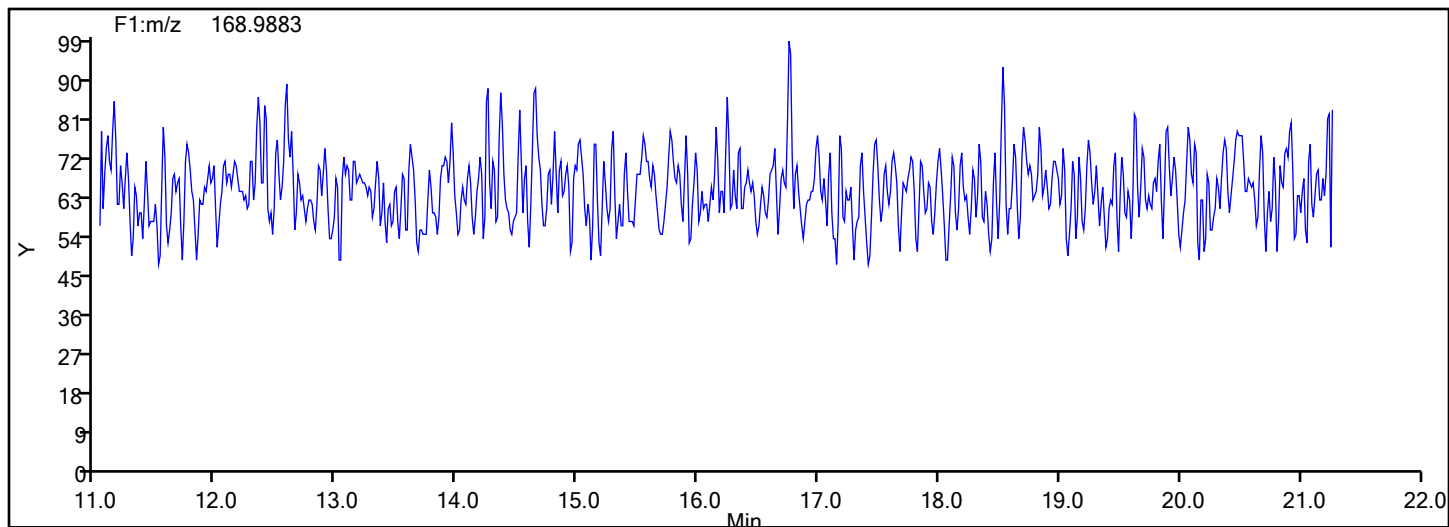
Sample Line#: 3

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

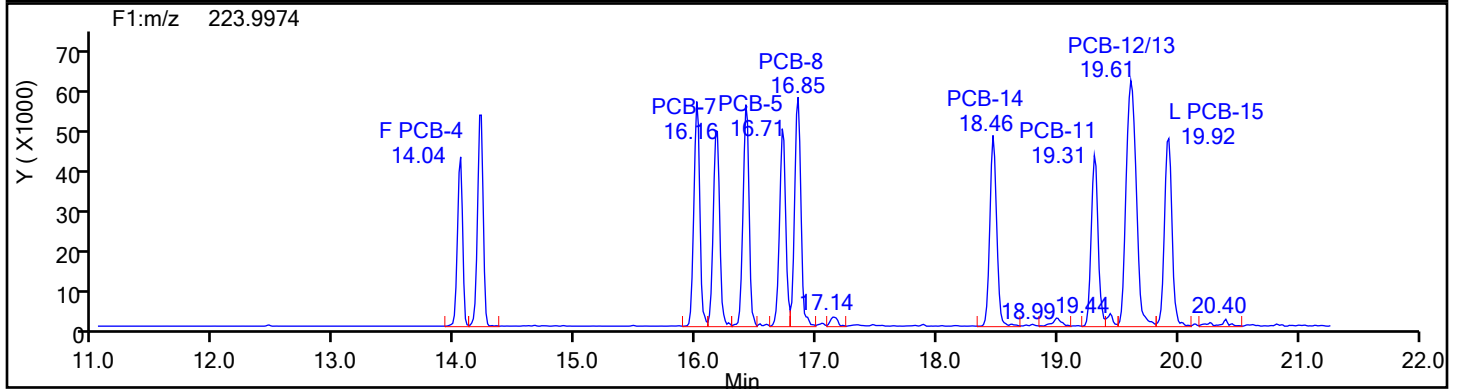
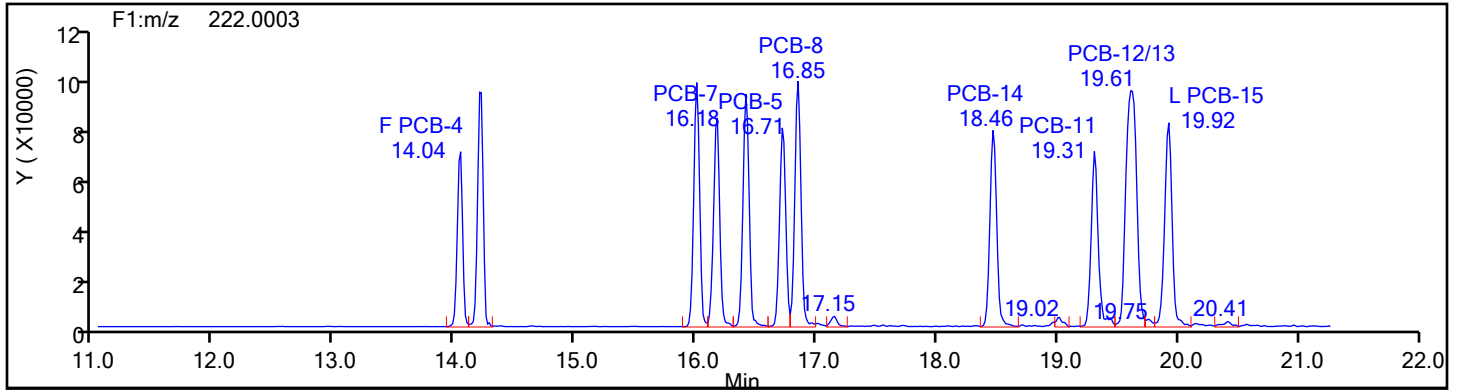
Worklist#: 87130

Sample Line#: 3

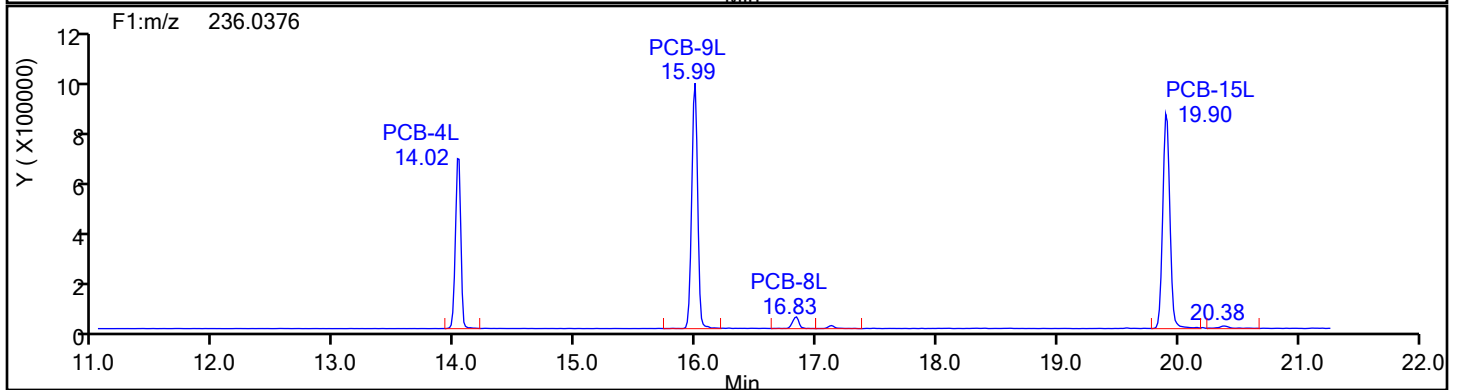
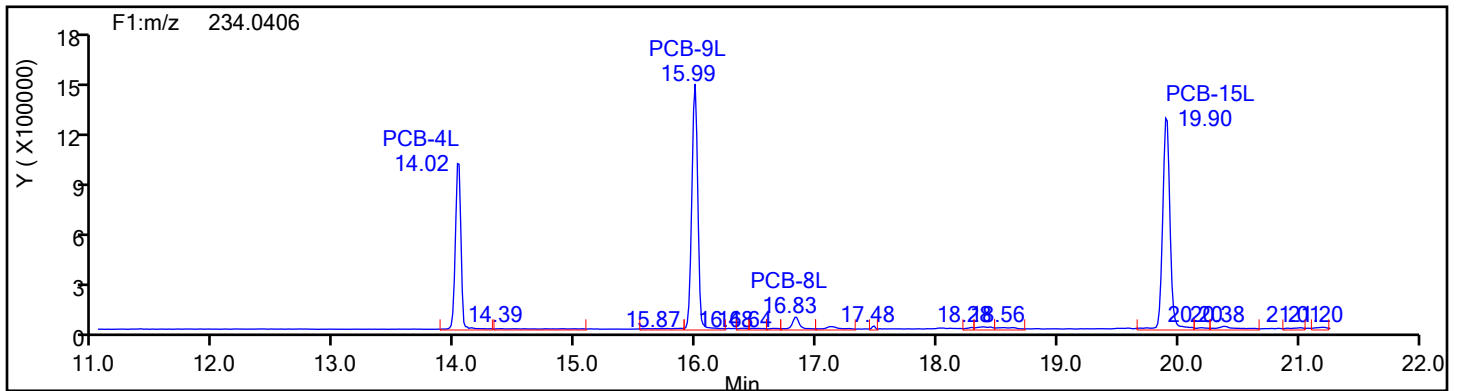
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

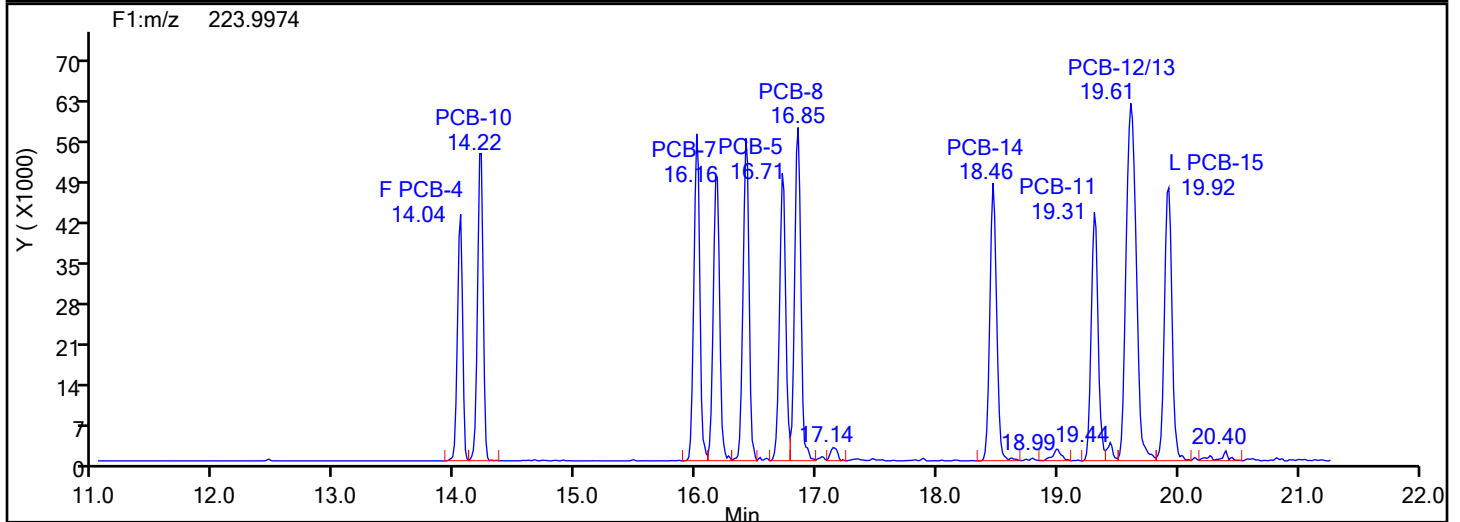
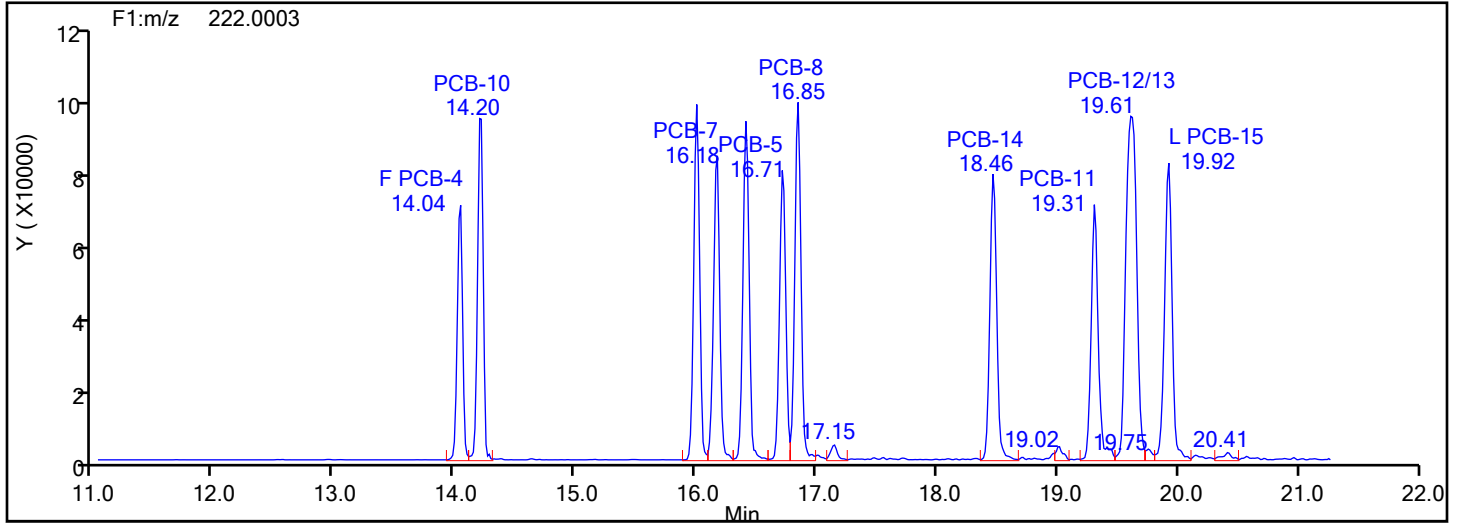
Worklist#: 87130

Sample Line#: 3

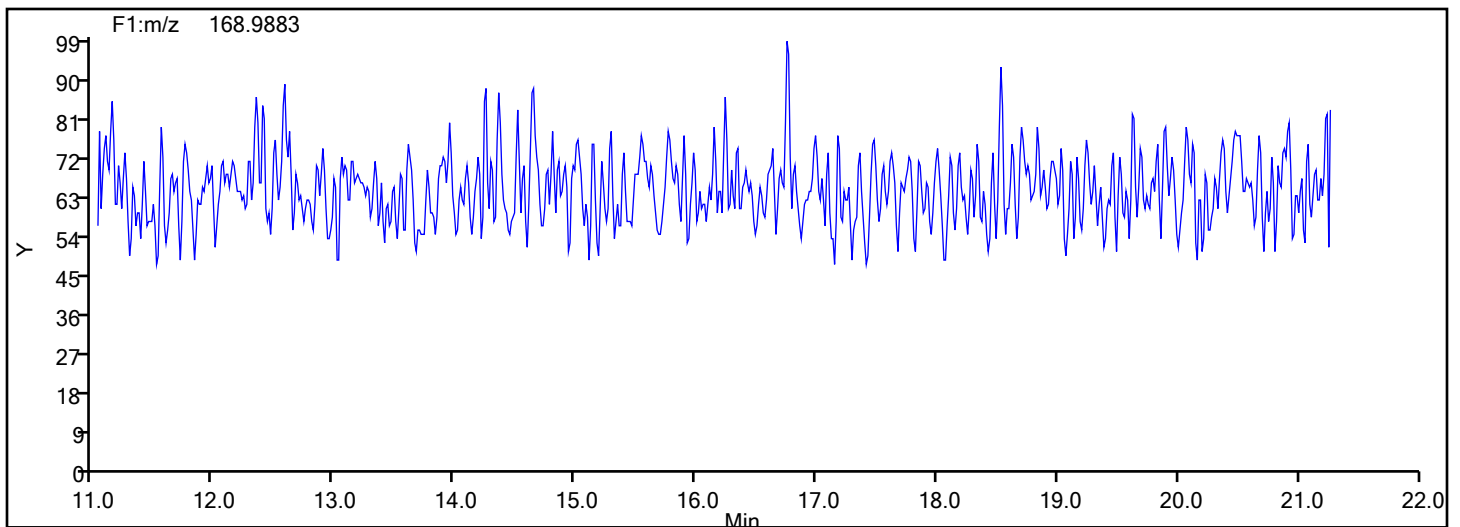
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

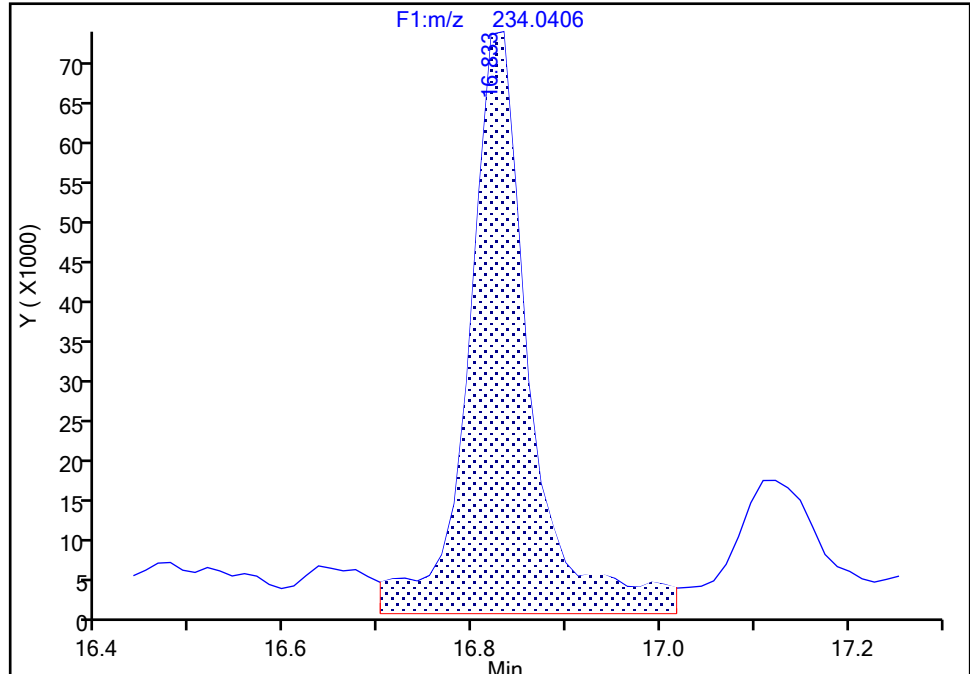
Detector F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

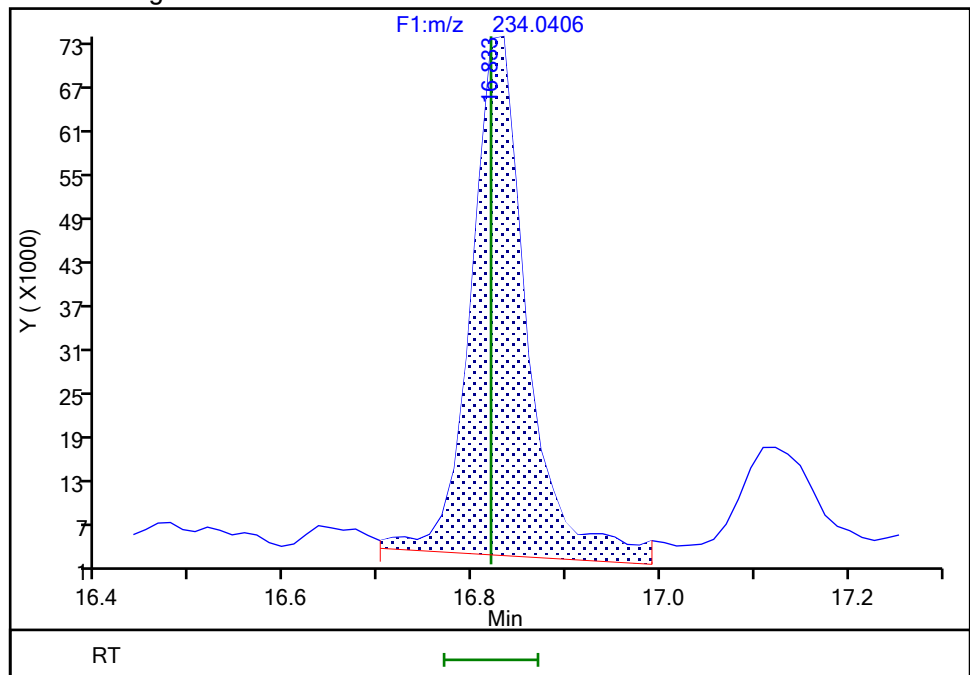
RT: 16.83
Area: 333617
Amount: 5.908651
Amount Units: pg/ul

Processing Integration Results



RT: 16.83
Area: 293687
Amount: 5.499787
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 19:08:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

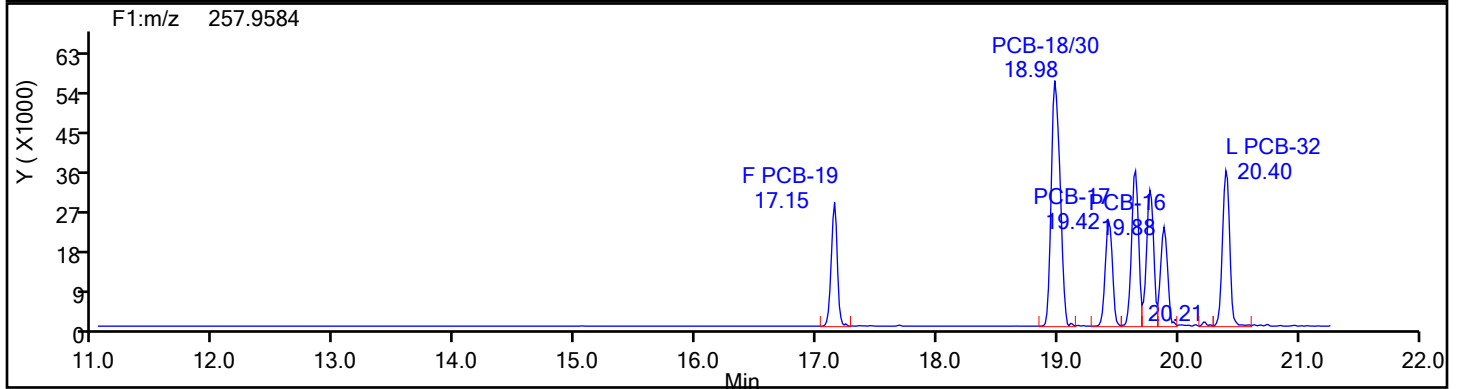
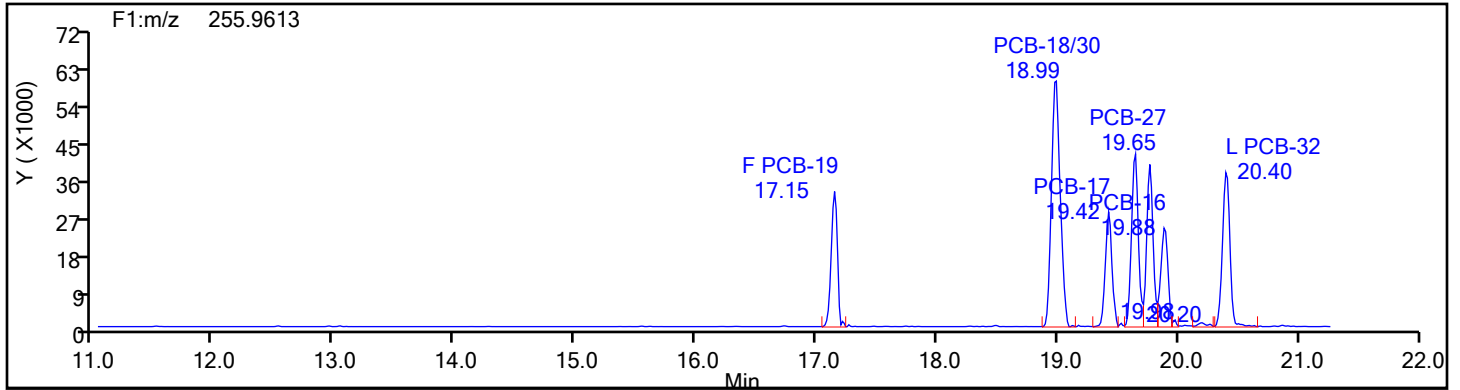
Worklist#: 87130

Sample Line#: 3

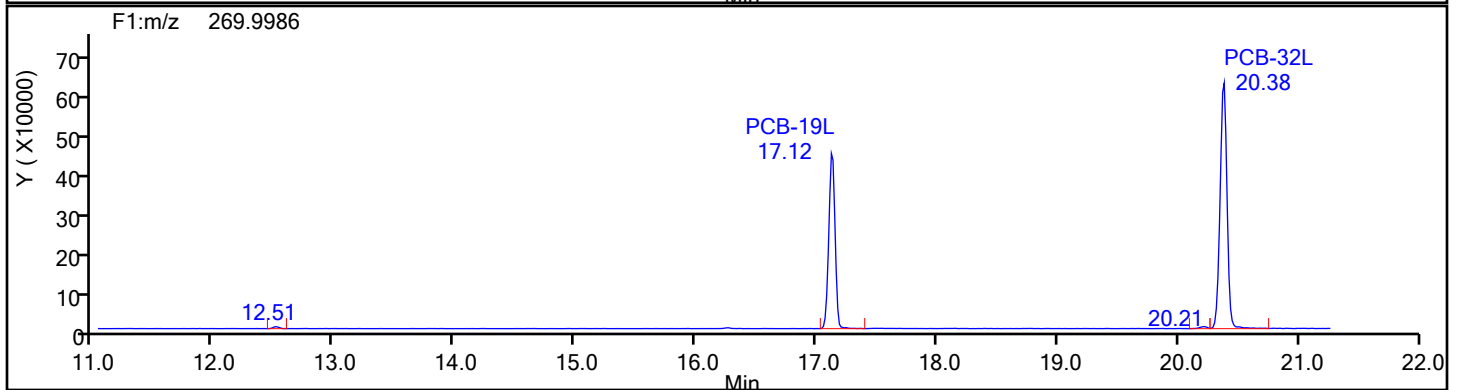
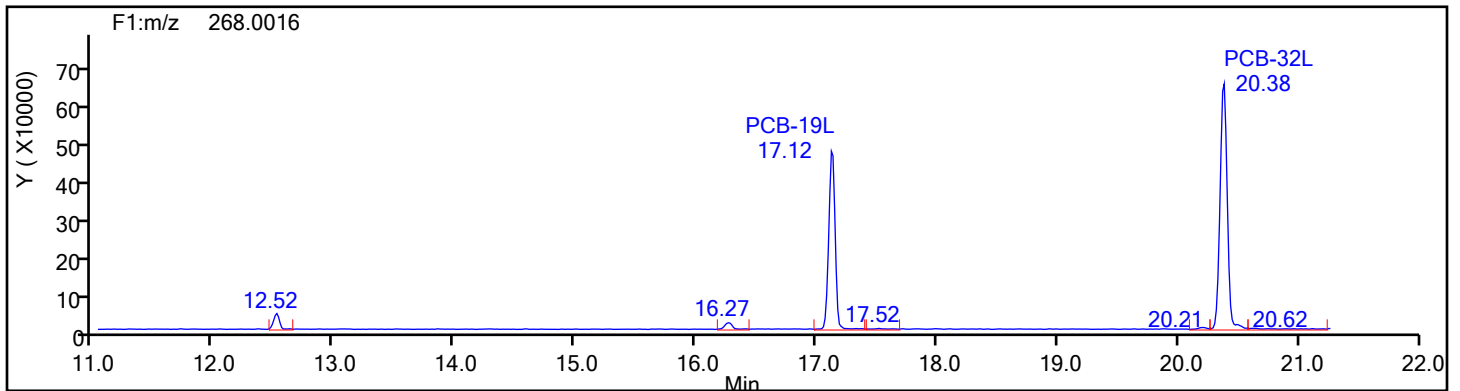
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

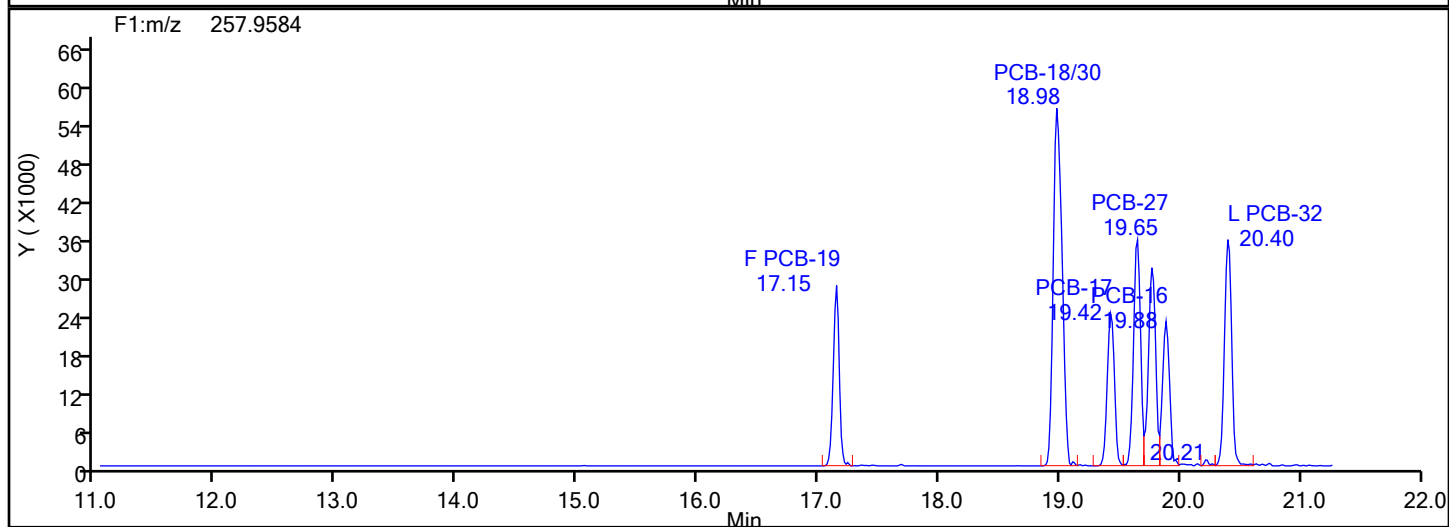
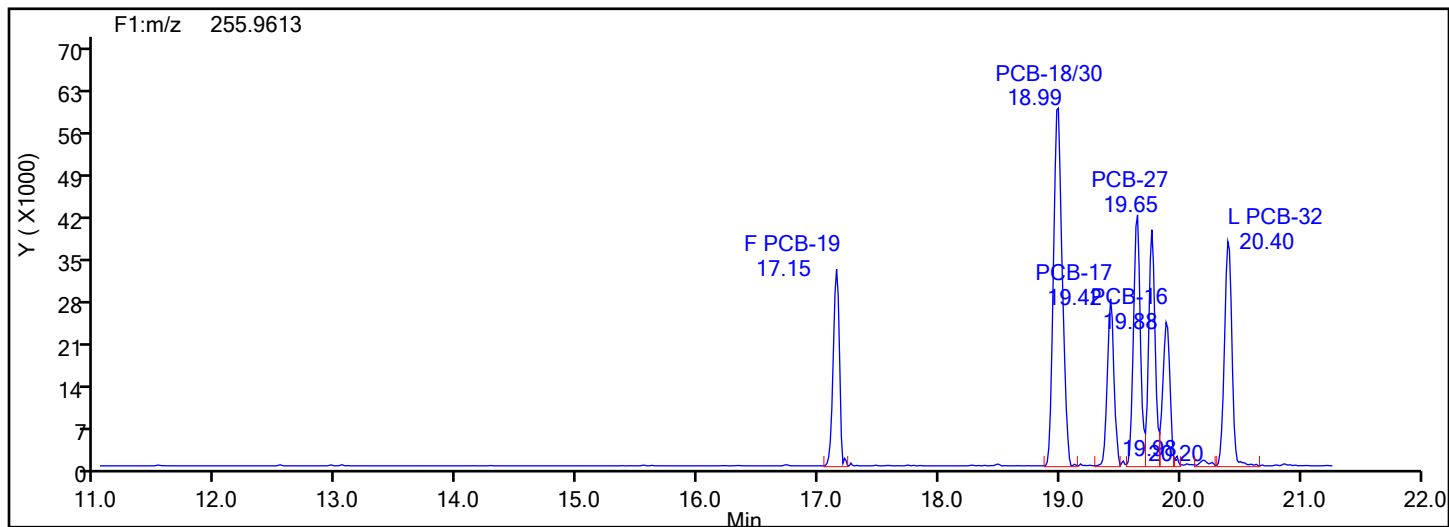
Worklist#: 87130

Sample Line#: 3

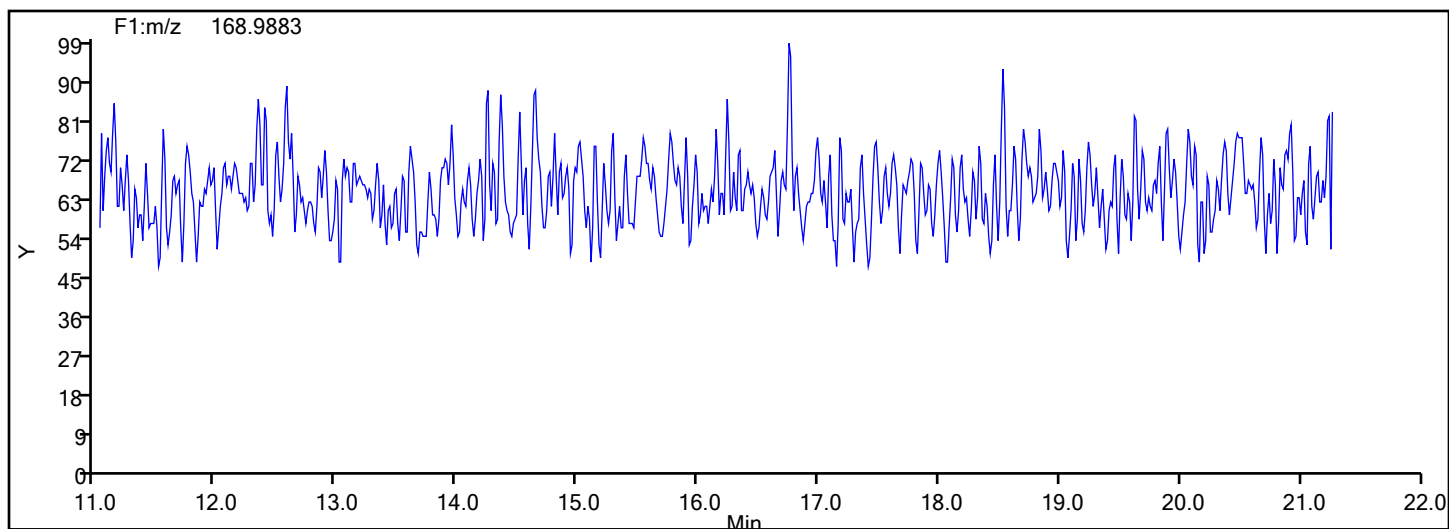
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1

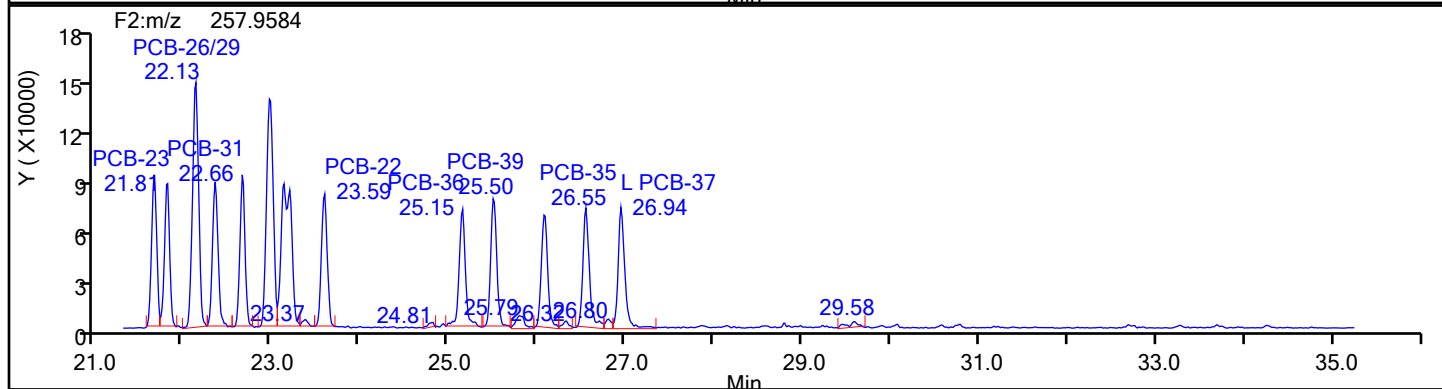


TriPCB F1 Lock Mass

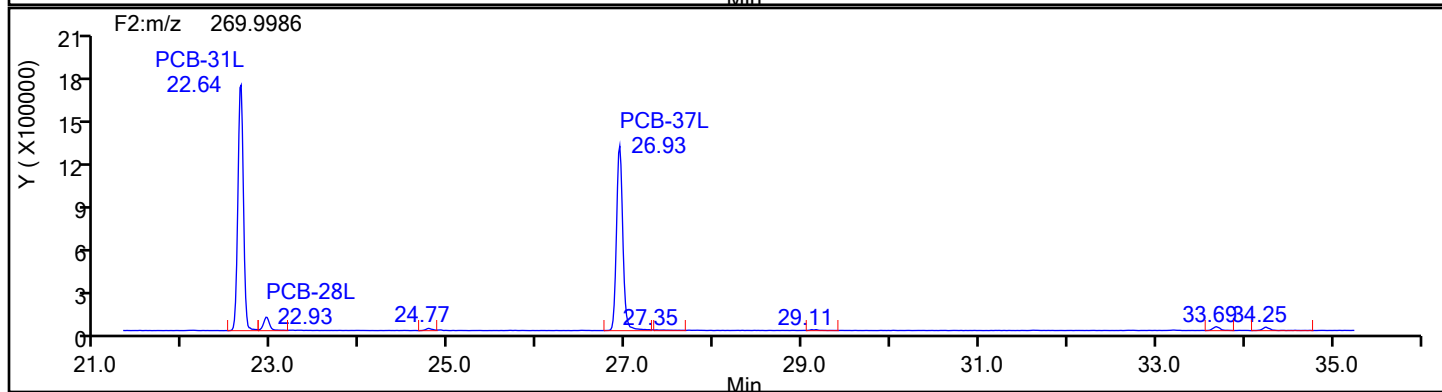
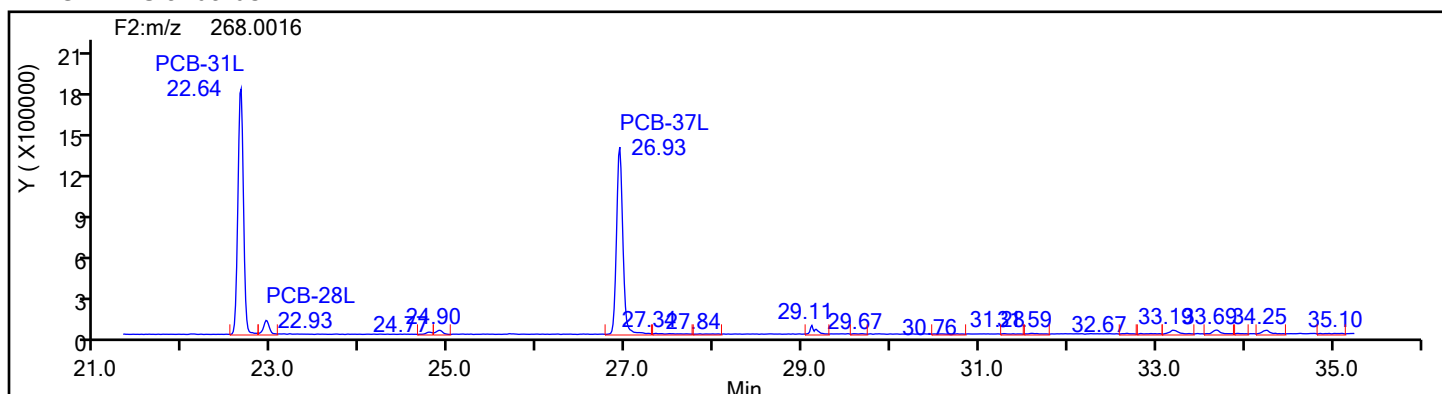


Column Dia: 0.25 mm

Column Dia: 0.25 mm



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

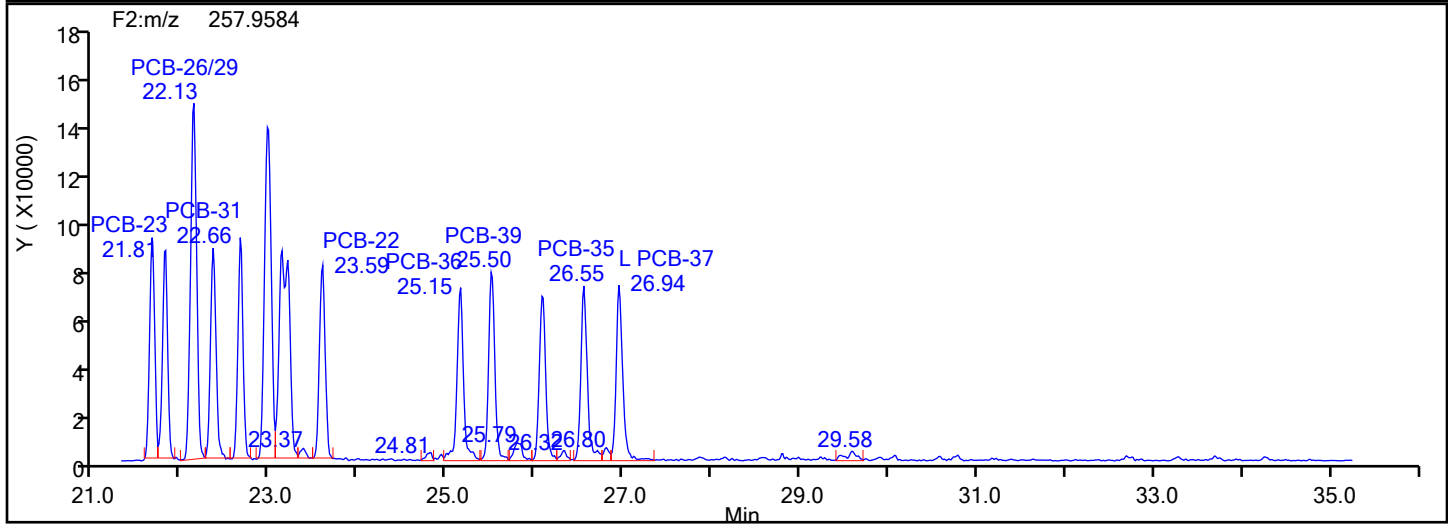
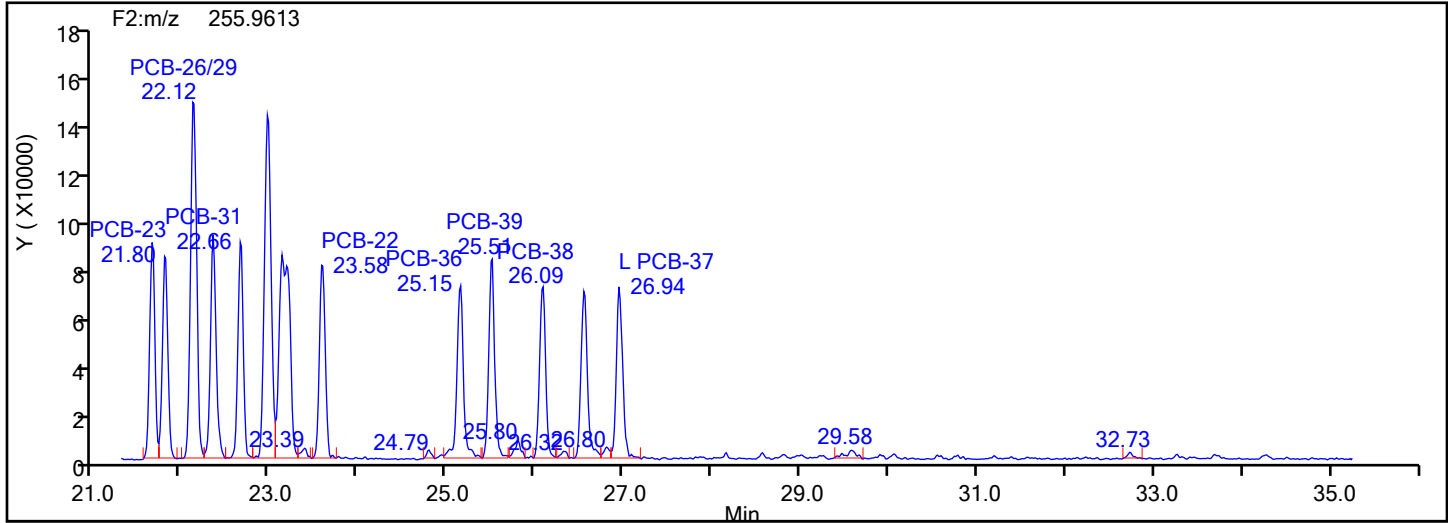
Worklist#: 87130

Sample Line#: 3

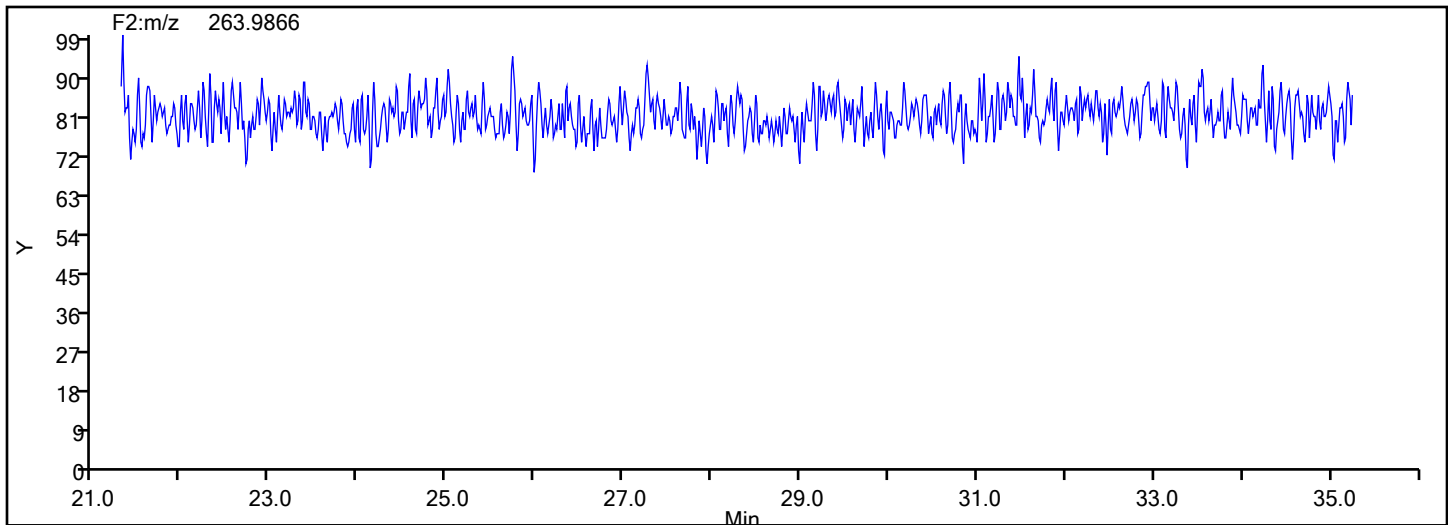
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

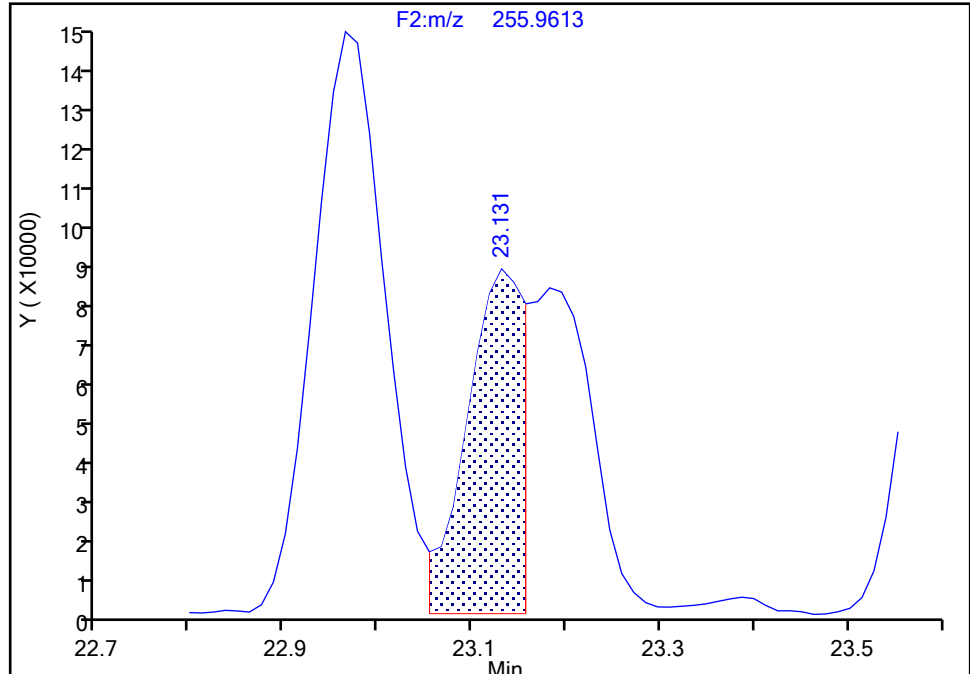
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

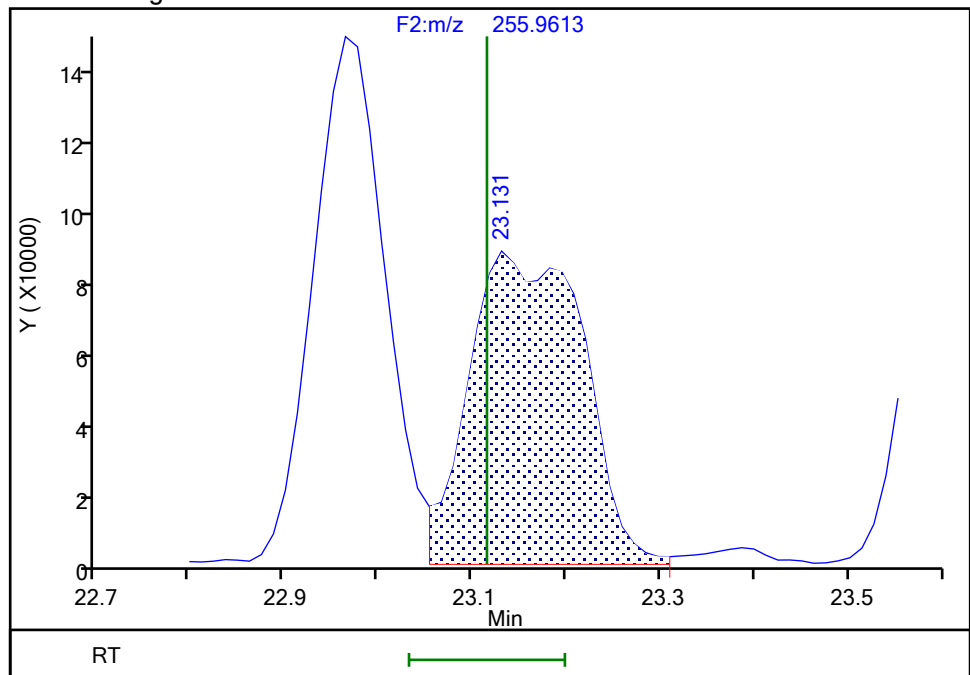
RT: 23.13
Area: 341530
Amount: 5.112120
Amount Units: pg/ul

Processing Integration Results



RT: 23.13
Area: 720072
Amount: 9.960208
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:42:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

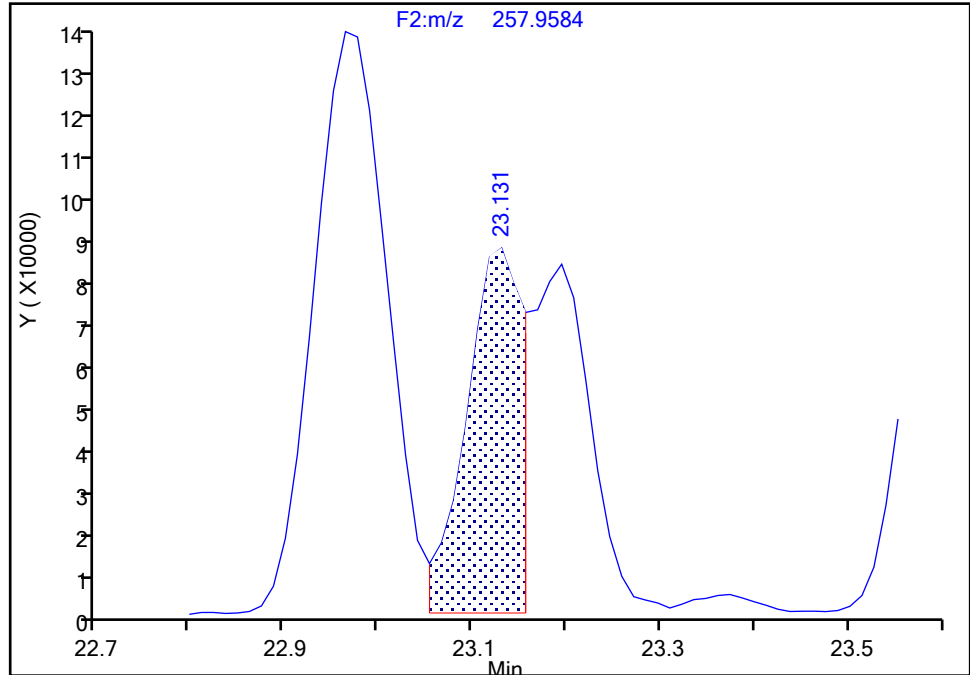
F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

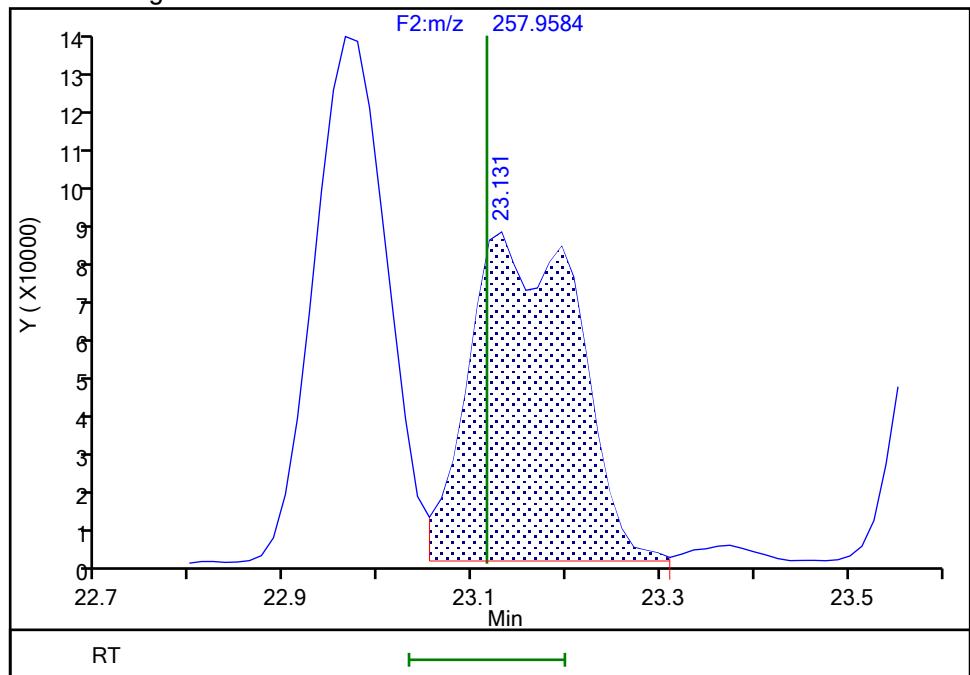
RT: 23.13
Area: 335268
Amount: 5.112120
Amount Units: pg/ul

Processing Integration Results



RT: 23.13
Area: 683628
Amount: 9.960208
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:43:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-01520-2023344

9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

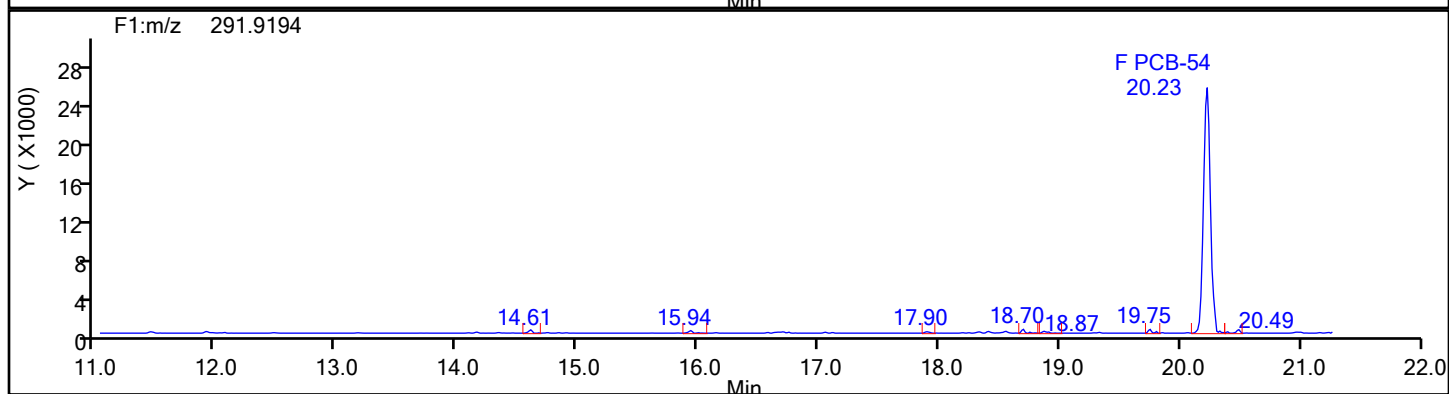
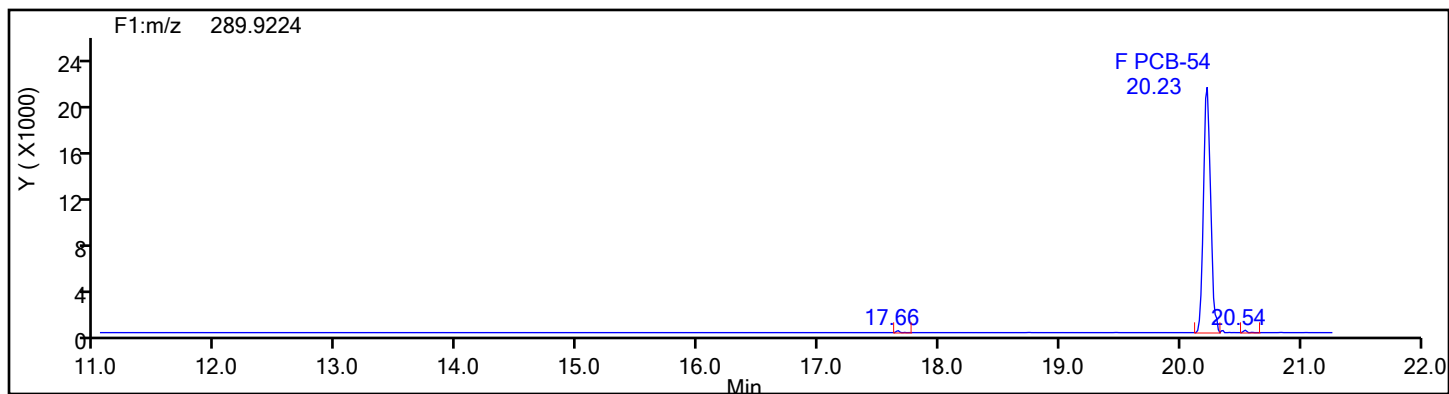
Worklist#: 87130

Sample Line#: 3

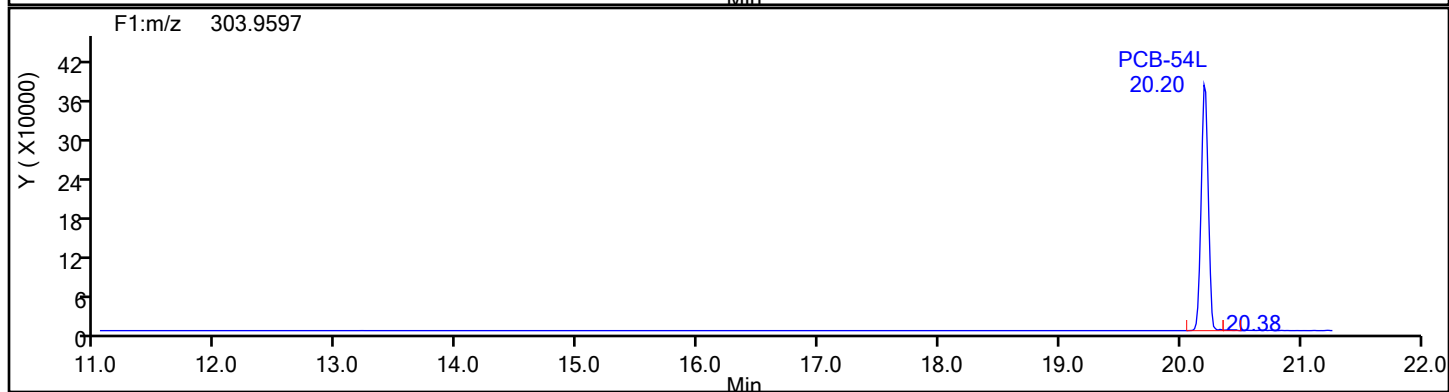
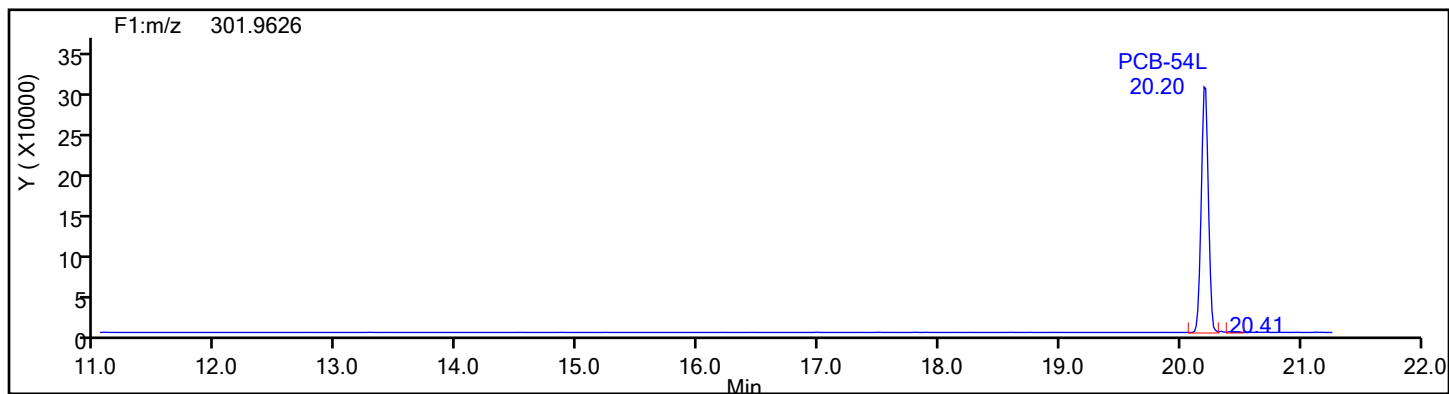
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

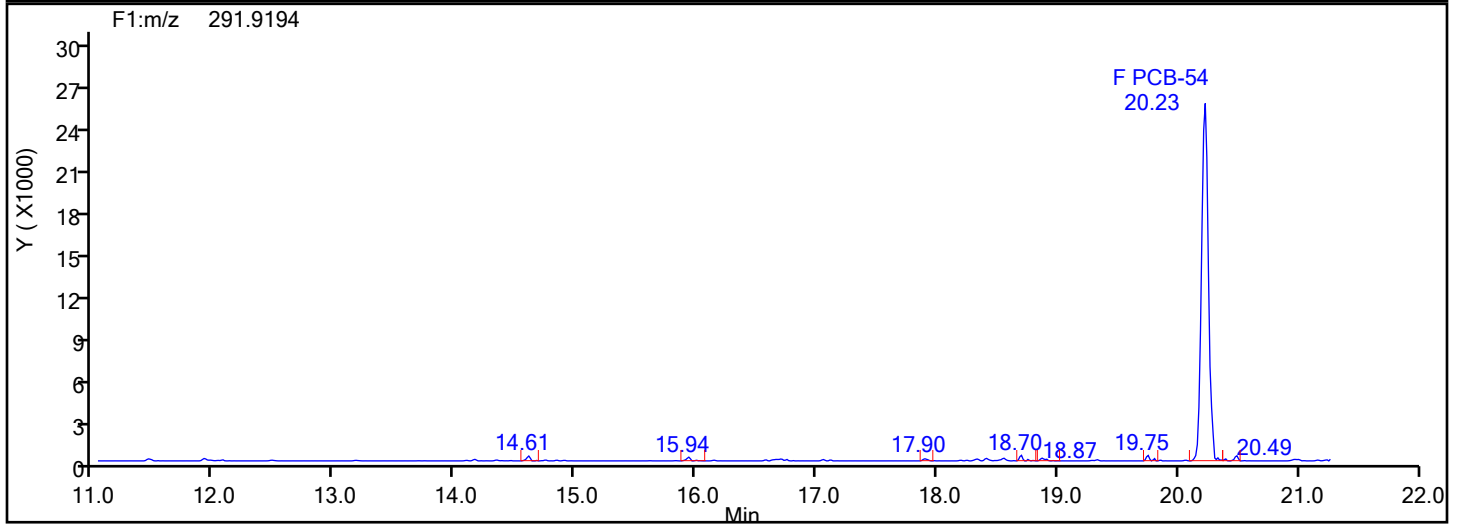
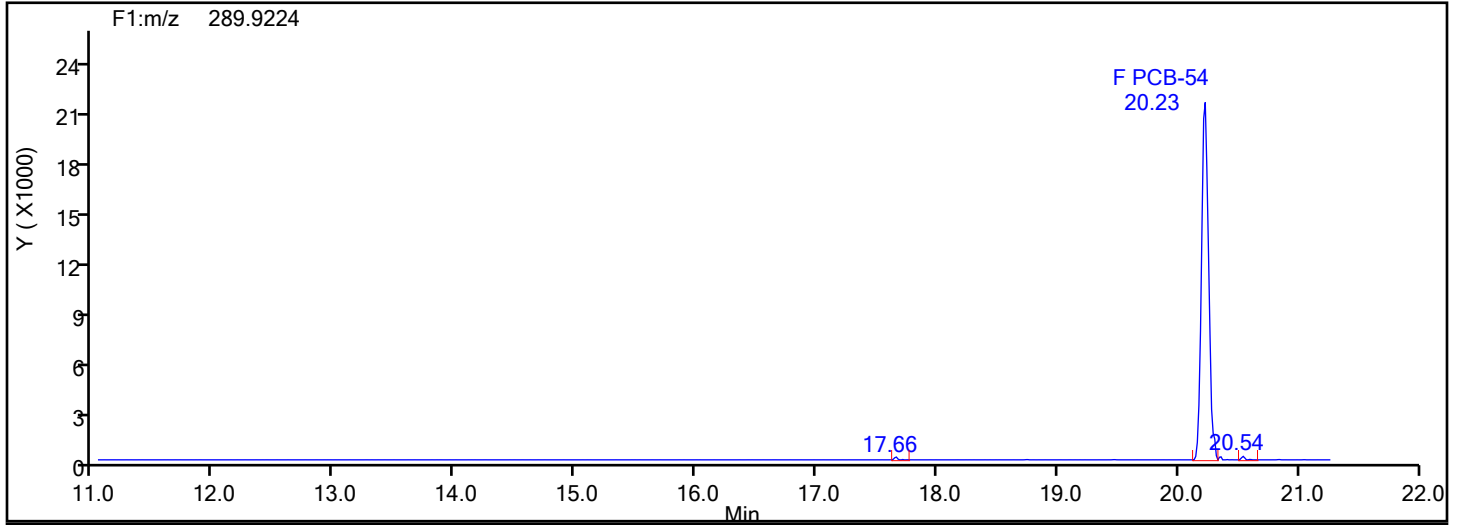


TePCB F1 Standards

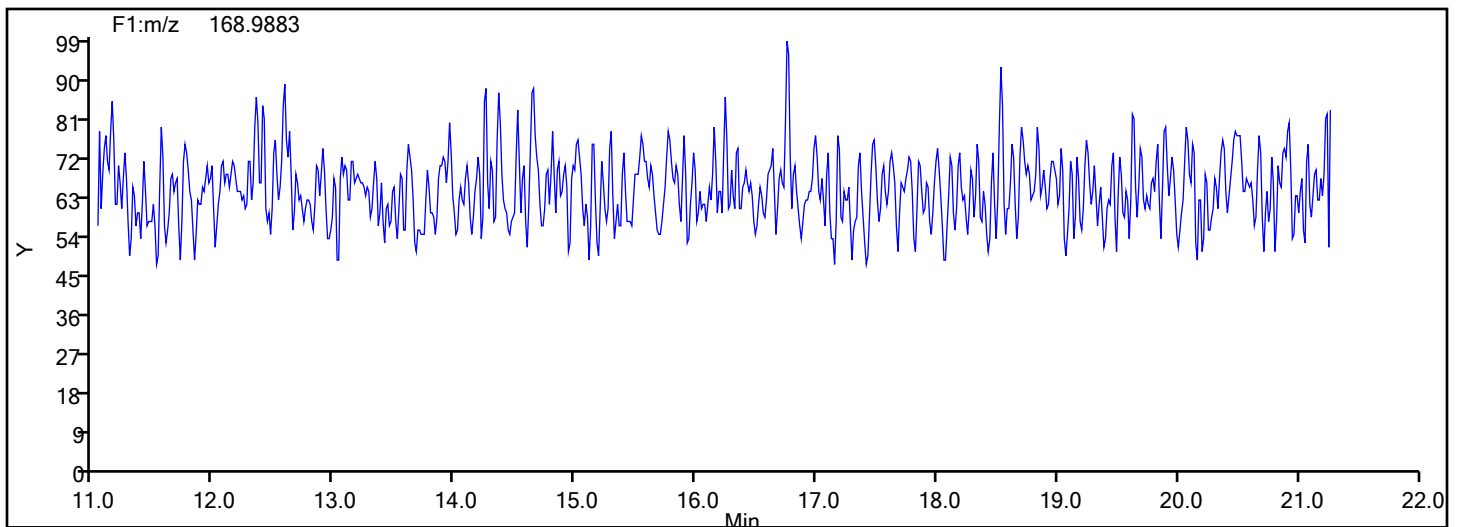


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 3
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

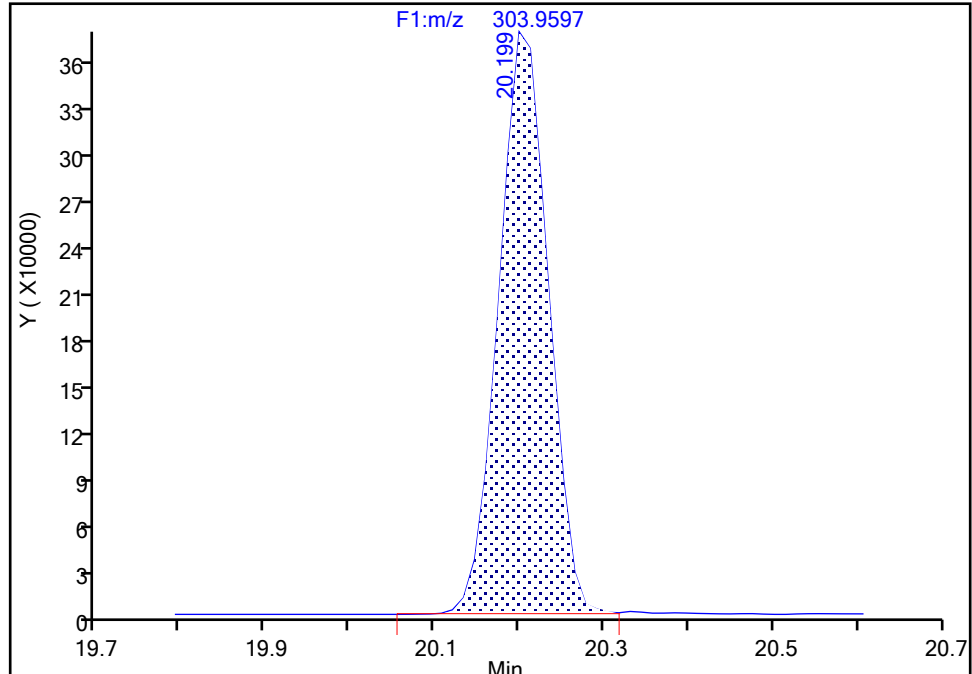
Detector F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 2

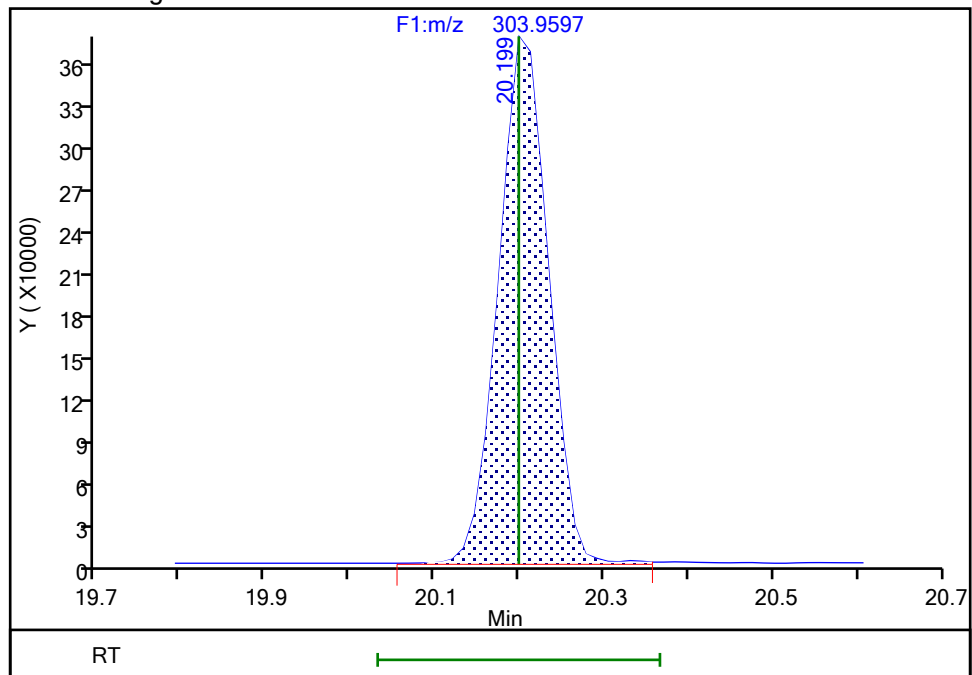
RT: 20.20
Area: 1539448
Amount: 88.210787
Amount Units: pg/ul

Processing Integration Results



RT: 20.20
Area: 1551267
Amount: 95.415041
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:43:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Chrom Revision: 2.3 20-May-2024 22:00:34

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

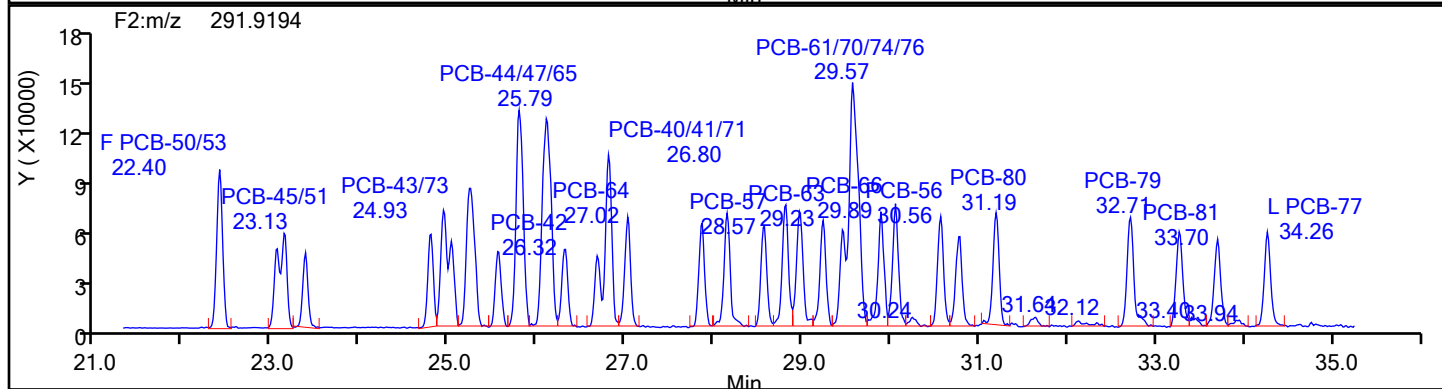
Injection Vol: 1.0 ul

Operator ID: Xcalibur System

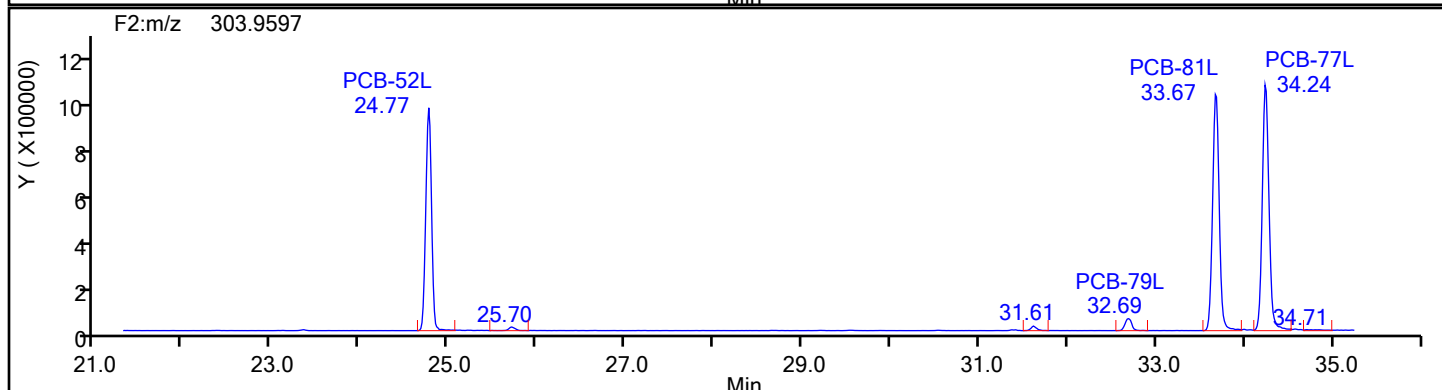
Limit Group: HR - EPA 23 PCB ICAL

Sample Line#: 3

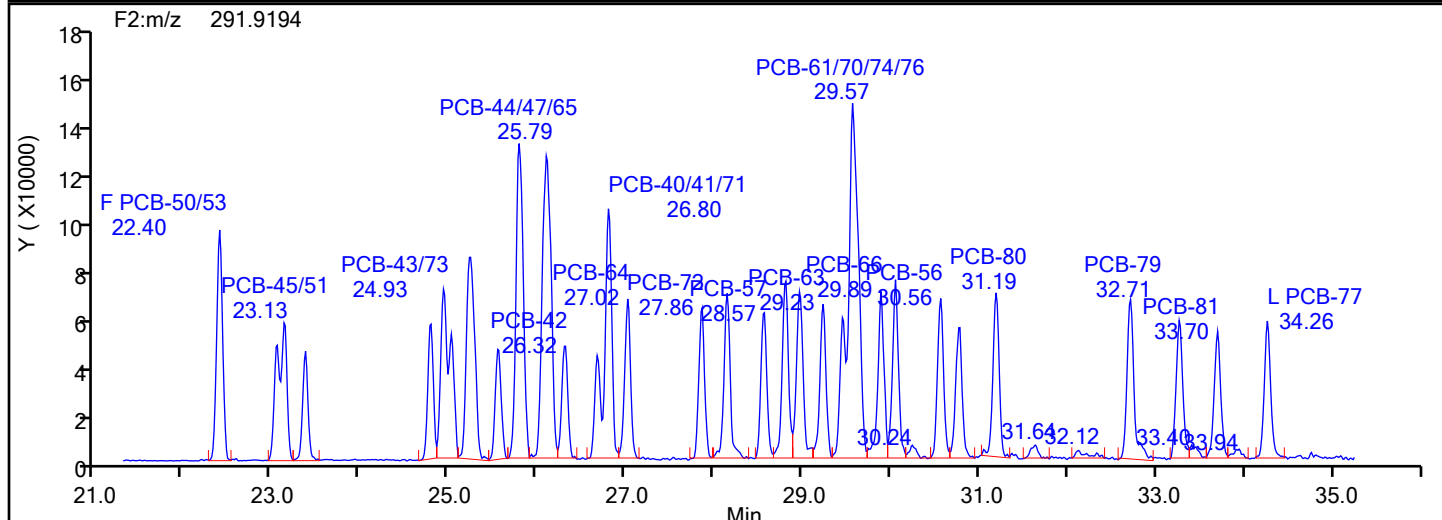
Column Dia: 0.25 mm



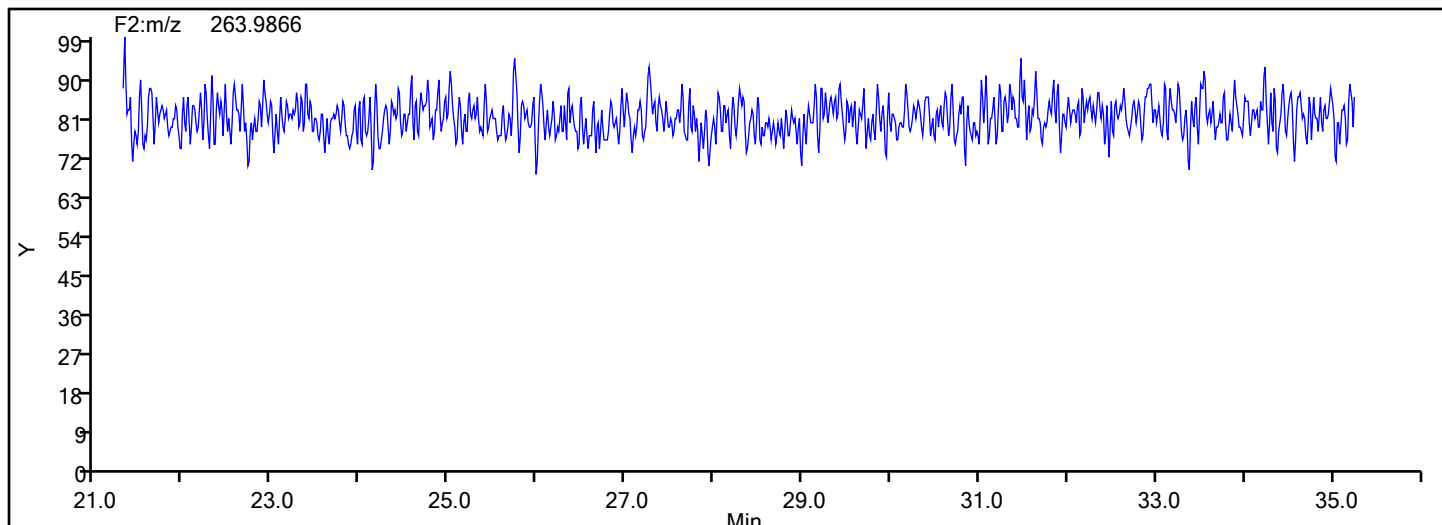
TePCB F2 Standards



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d		
Injection Date:	31-May-2024 18:00:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	87130	Sample Line#:	3
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TePCB F2			



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

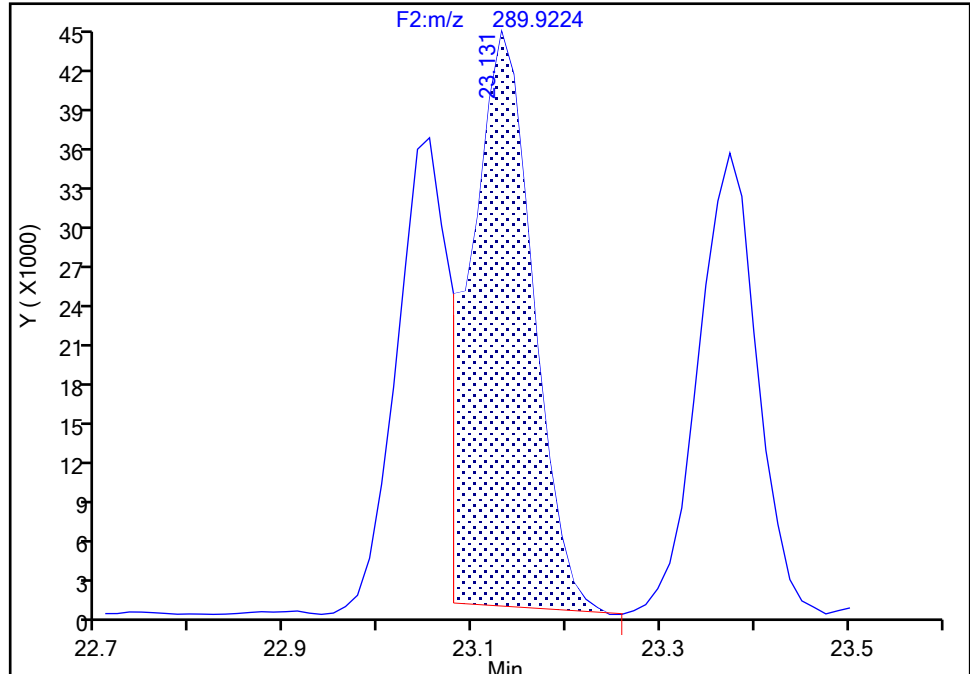
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

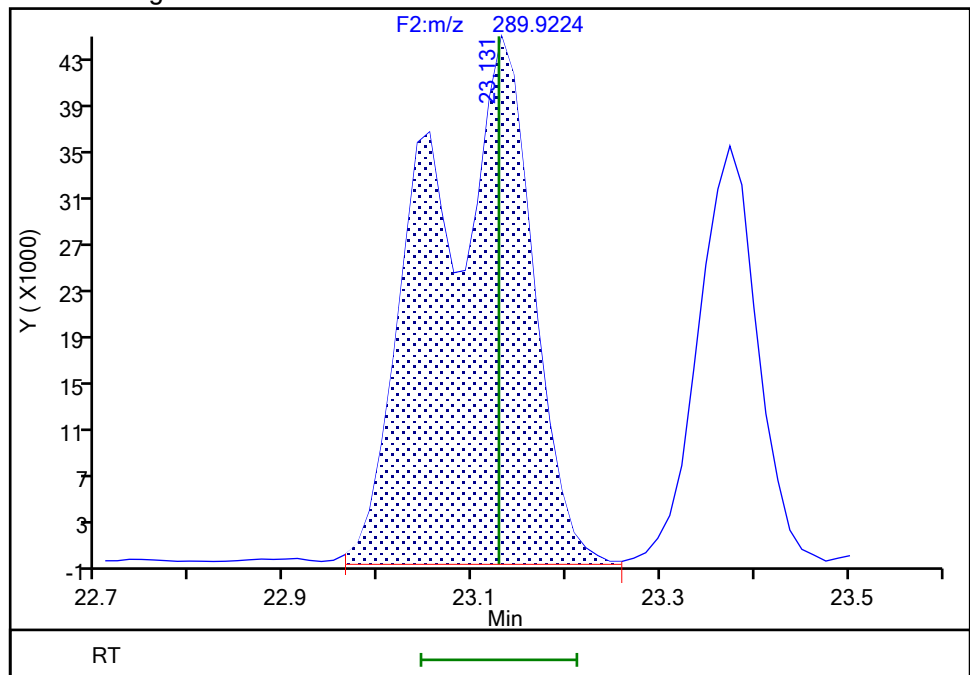
RT: 23.13
Area: 197949
Amount: 6.095820
Amount Units: pg/ul

Processing Integration Results



RT: 23.13
Area: 337953
Amount: 9.812546
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:43:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

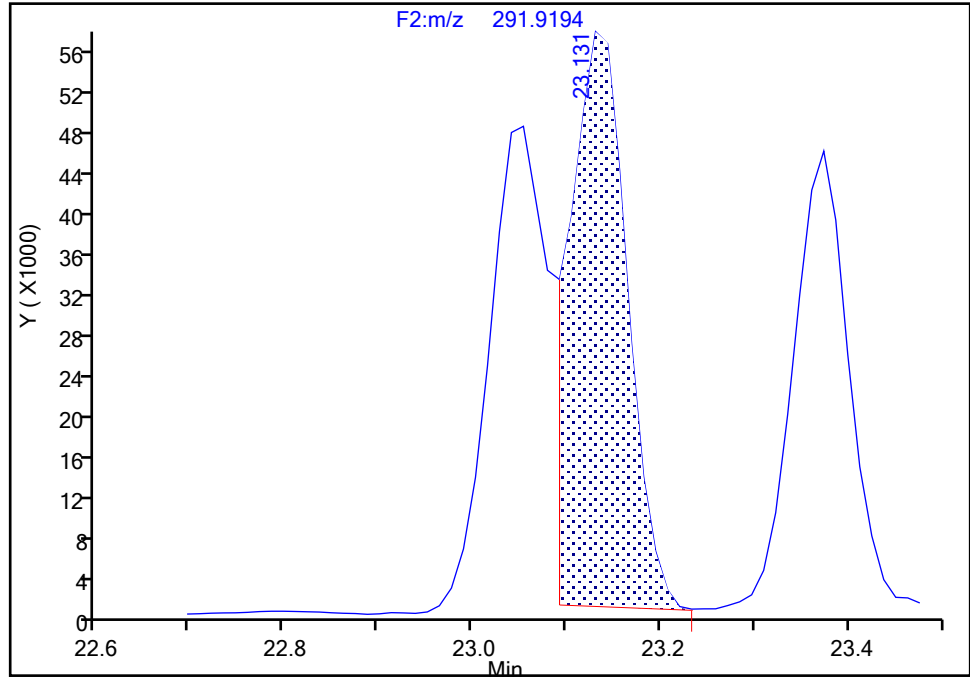
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

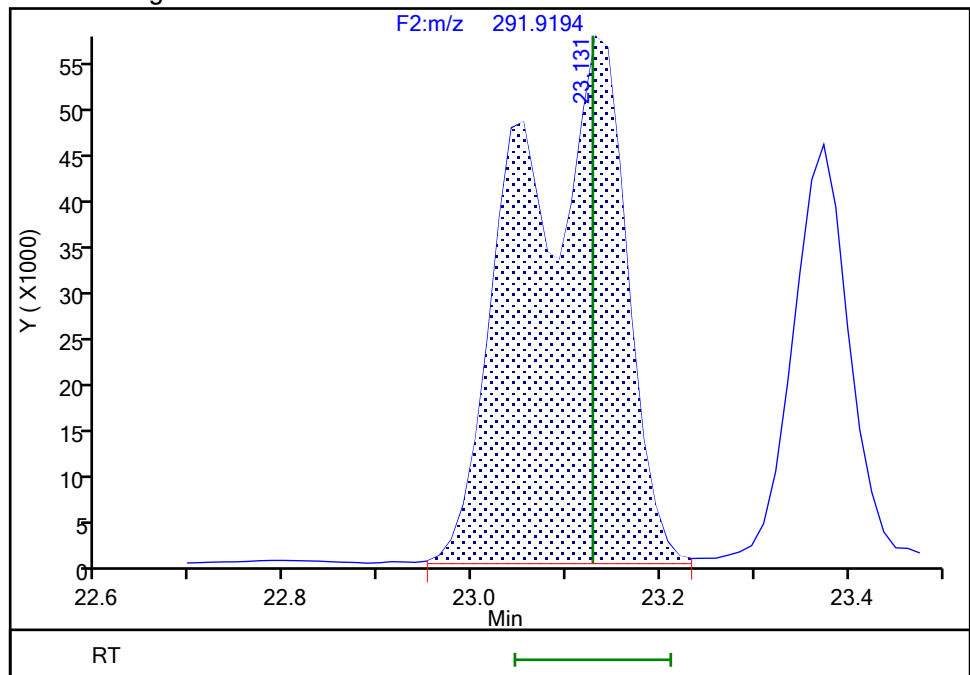
RT: 23.13
Area: 234999
Amount: 6.095820
Amount Units: pg/ul

Processing Integration Results



RT: 23.13
Area: 450602
Amount: 9.812546
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:43:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-012-2024-03351
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

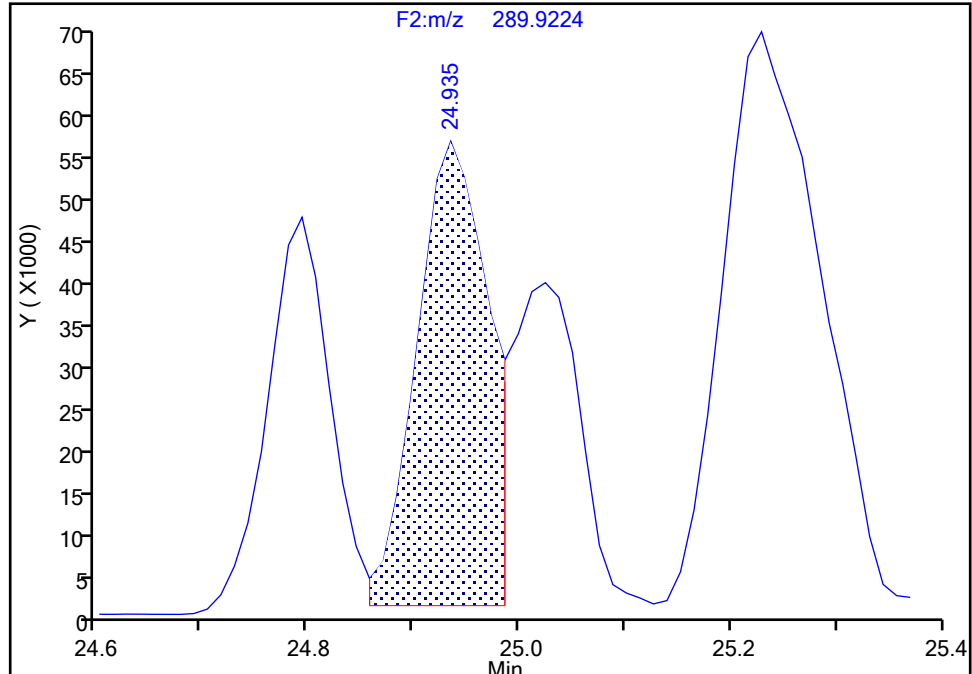
Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

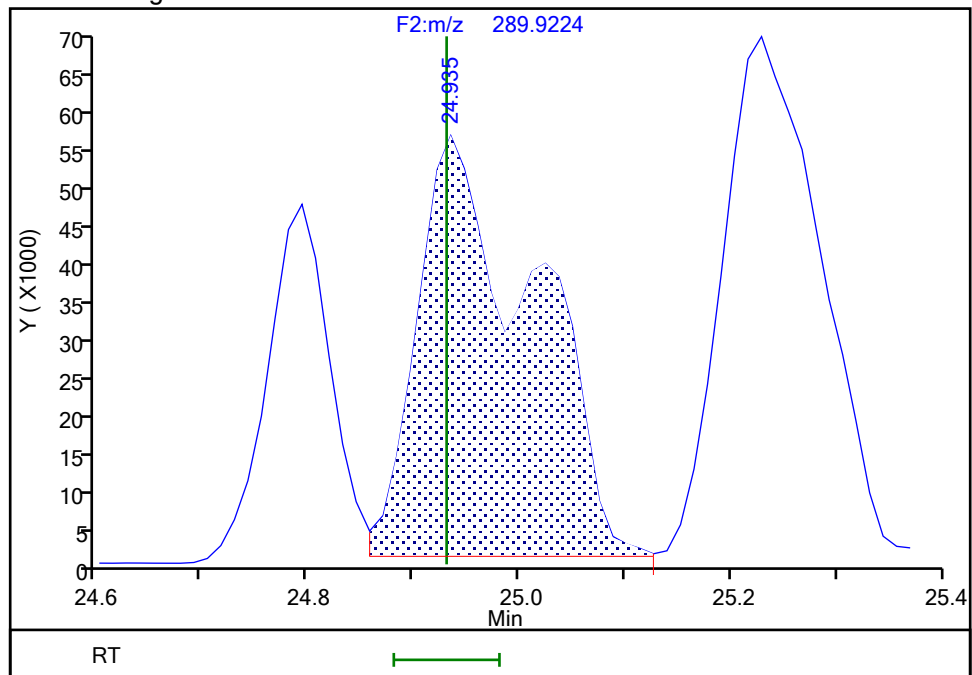
RT: 24.93
Area: 254165
Amount: 6.401675
Amount Units: pg/ul

Processing Integration Results



RT: 24.93
Area: 423345
Amount: 9.702556
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

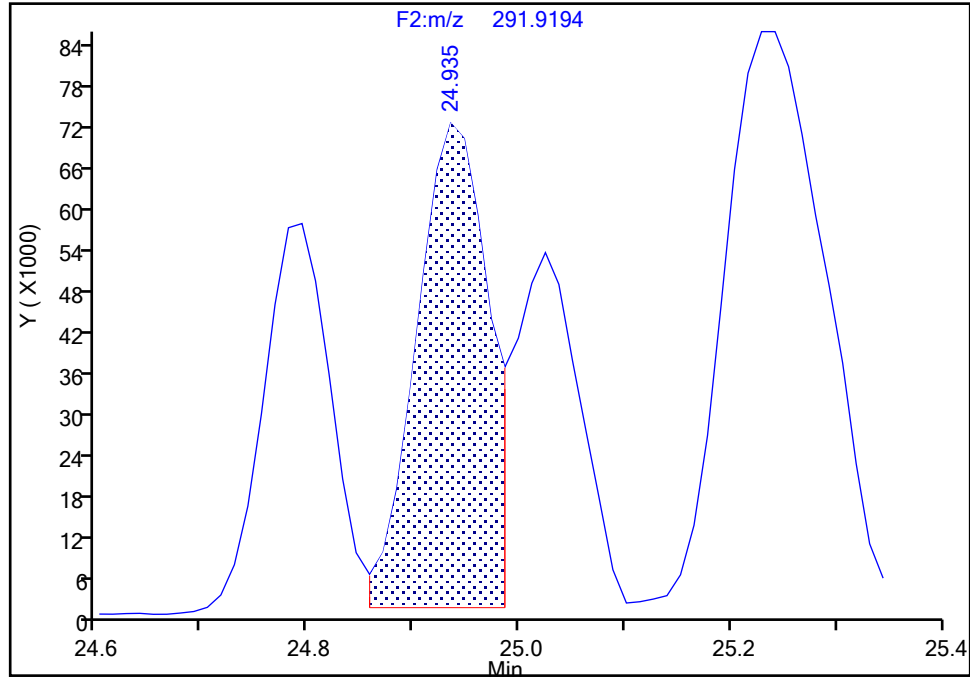
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

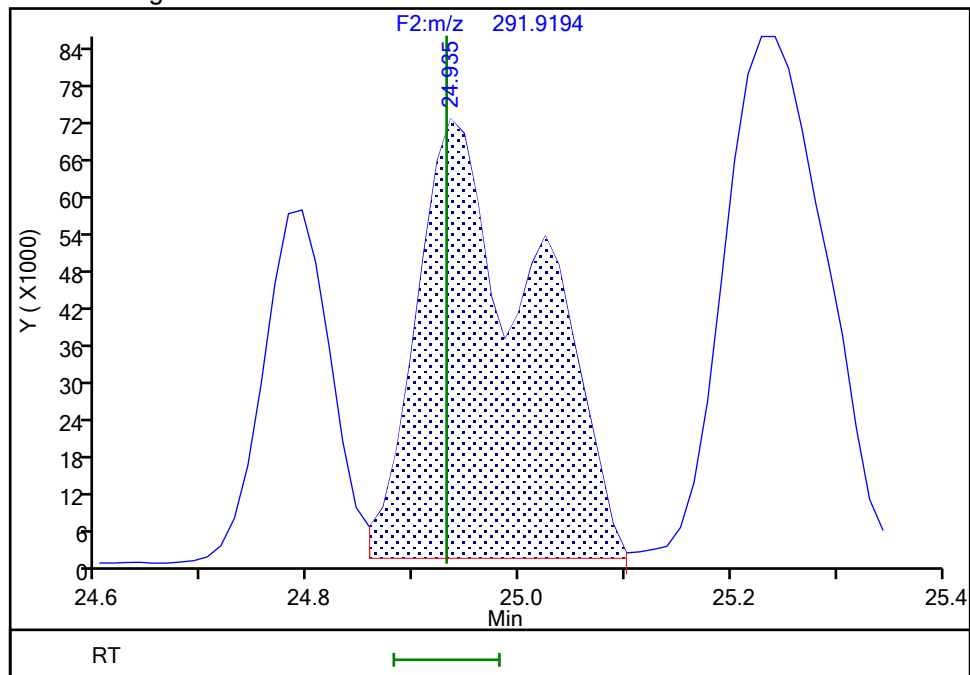
RT: 24.93
Area: 330449
Amount: 6.401675
Amount Units: pg/ul

Processing Integration Results



RT: 24.93
Area: 551591
Amount: 9.702556
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-00000003353
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

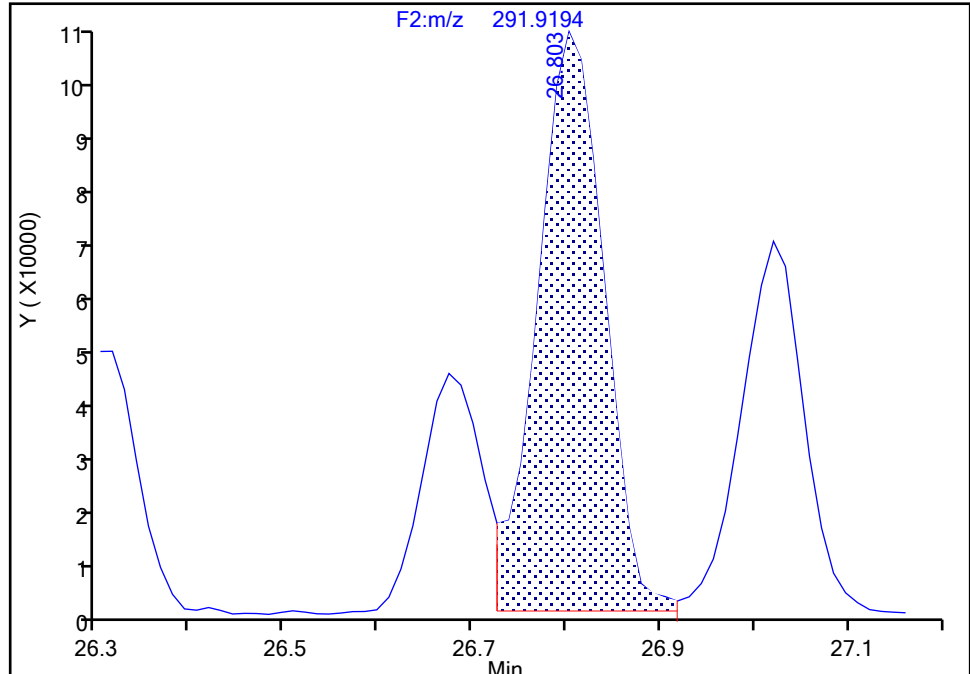
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

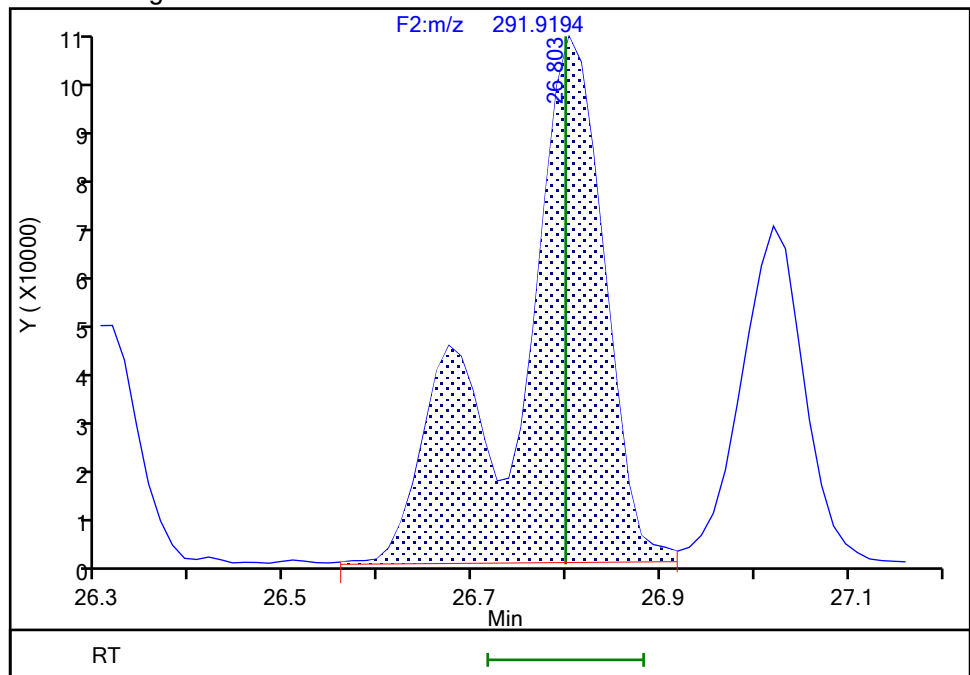
RT: 26.80
Area: 516277
Amount: 11.476659
Amount Units: pg/ul

Processing Integration Results



RT: 26.80
Area: 706287
Amount: 14.423267
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

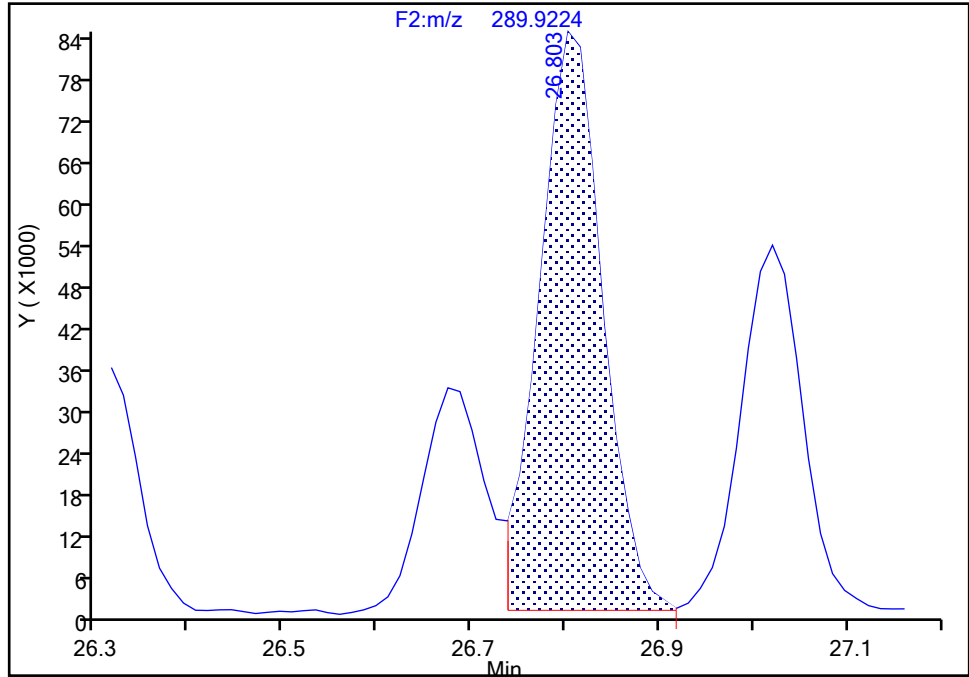
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

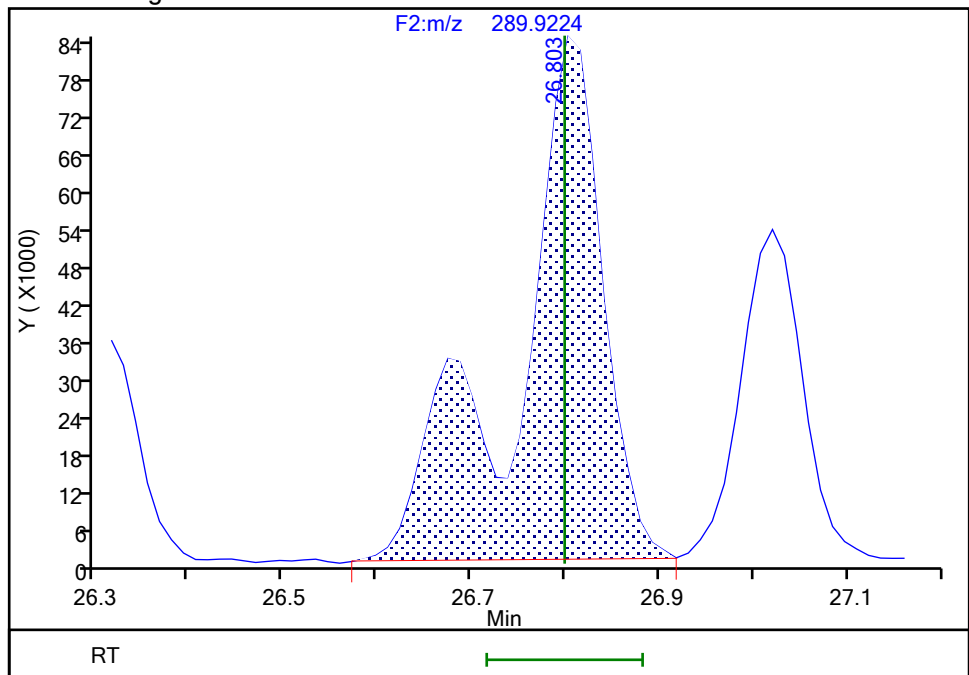
RT: 26.80
Area: 387522
Amount: 11.476659
Amount Units: pg/ul

Processing Integration Results



RT: 26.80
Area: 536815
Amount: 14.423267
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-Gen20240529-3355
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

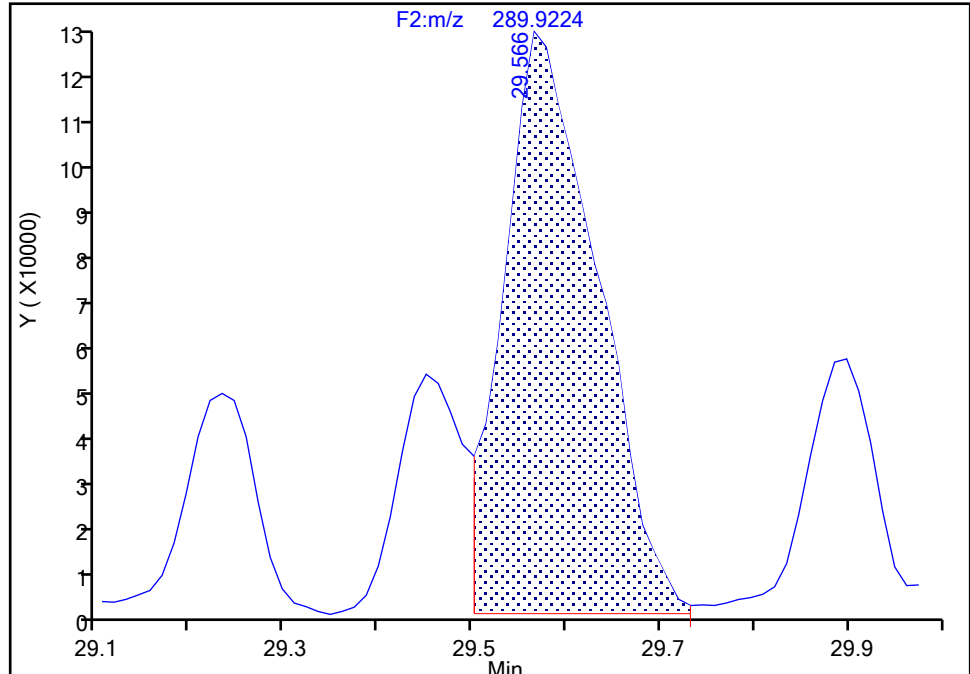
Detector F2(21.81 :35.54)

PCB-61/70/74/76, CAS: STL01808

Signal: 1

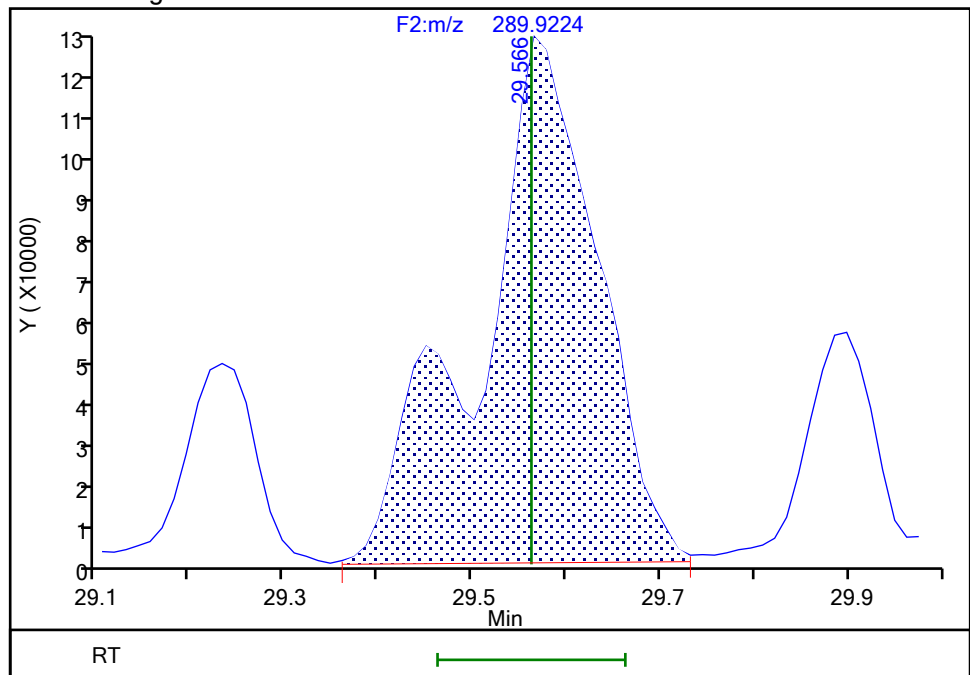
RT: 29.57
Area: 824311
Amount: 18.540425
Amount Units: pg/ul

Processing Integration Results



RT: 29.57
Area: 1056982
Amount: 19.171899
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

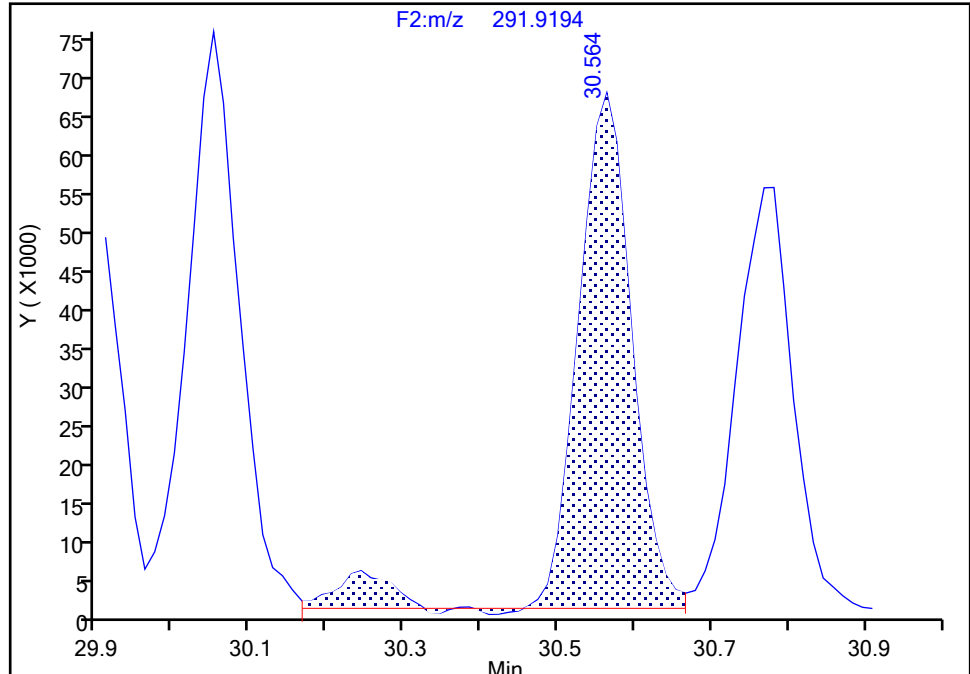
F2(21.81 :35.54)

PCB-56, CAS: 41464-43-1

Signal: 2

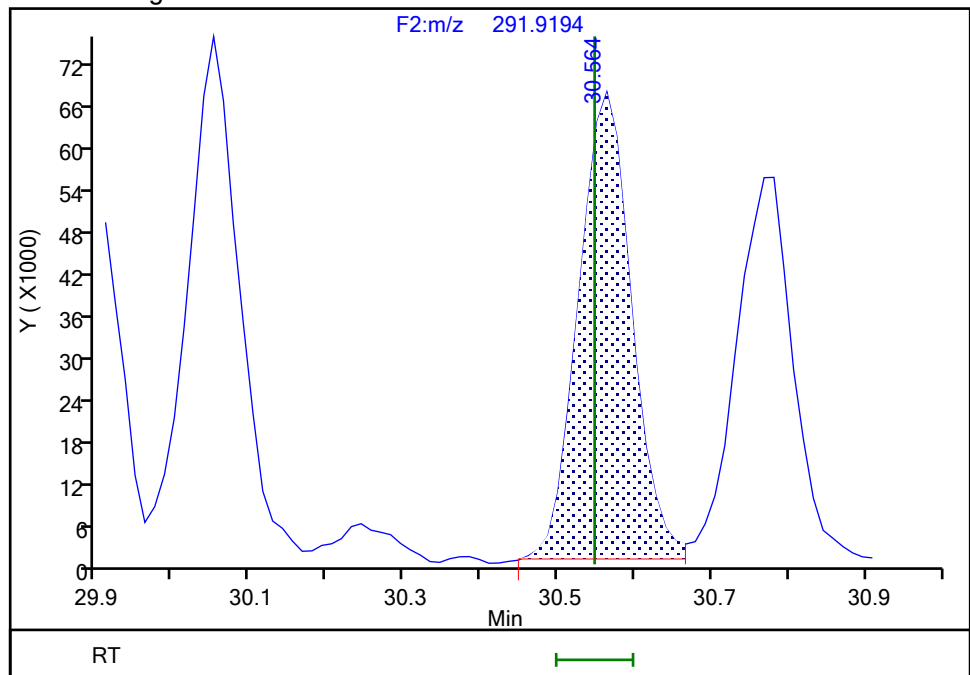
RT: 30.56
Area: 341256
Amount: 4.942673
Amount Units: pg/ul

Processing Integration Results



RT: 30.56
Area: 318235
Amount: 4.811515
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:45:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

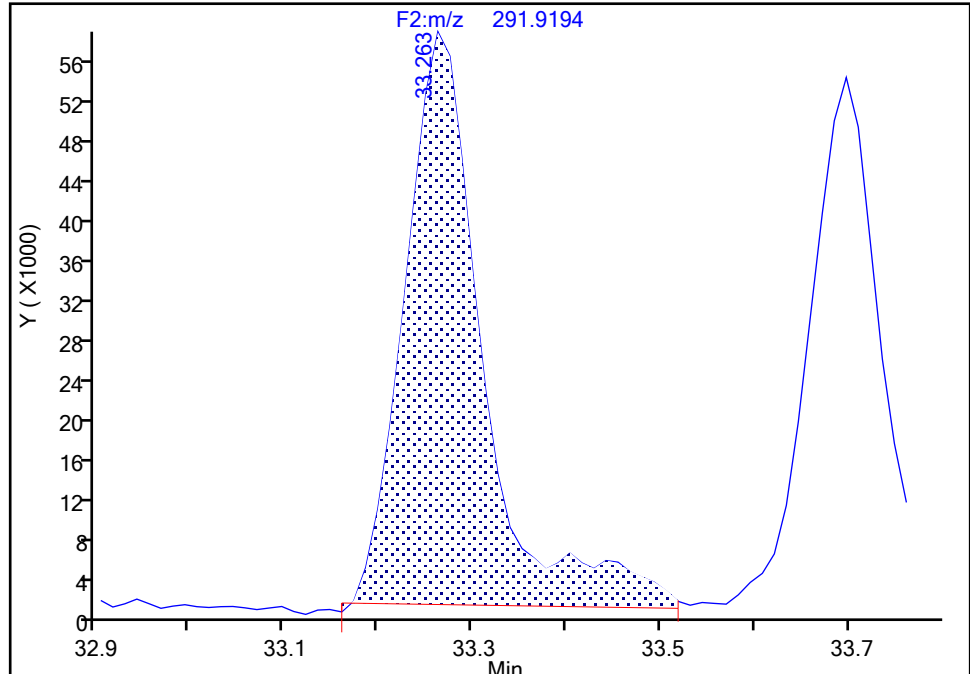
Detector F2(21.81 :35.54)

PCB-78, CAS: 70362-49-1

Signal: 2

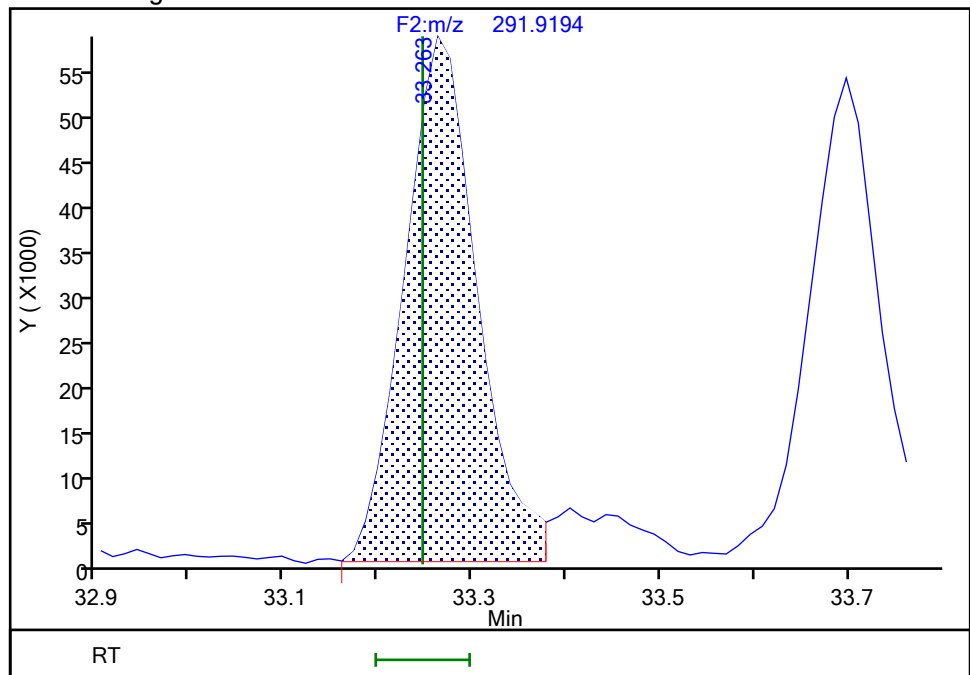
RT: 33.26
Area: 334181
Amount: 4.918346
Amount Units: pg/ul

Processing Integration Results



RT: 33.26
Area: 311315
Amount: 4.884871
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:45:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

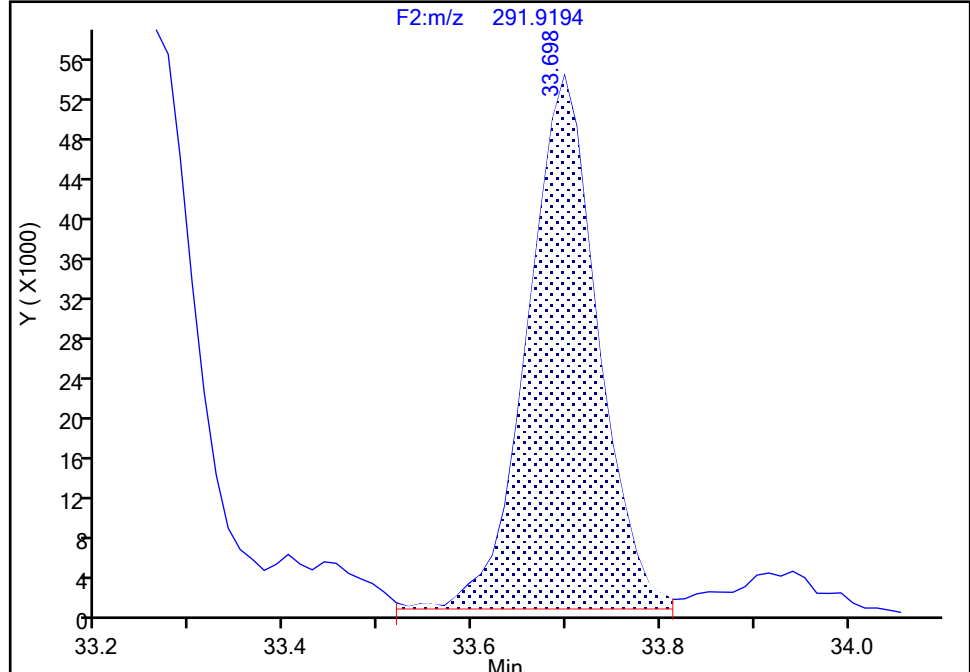
F2(21.81 :35.54)

PCB-81, CAS: 70362-50-4

Signal: 2

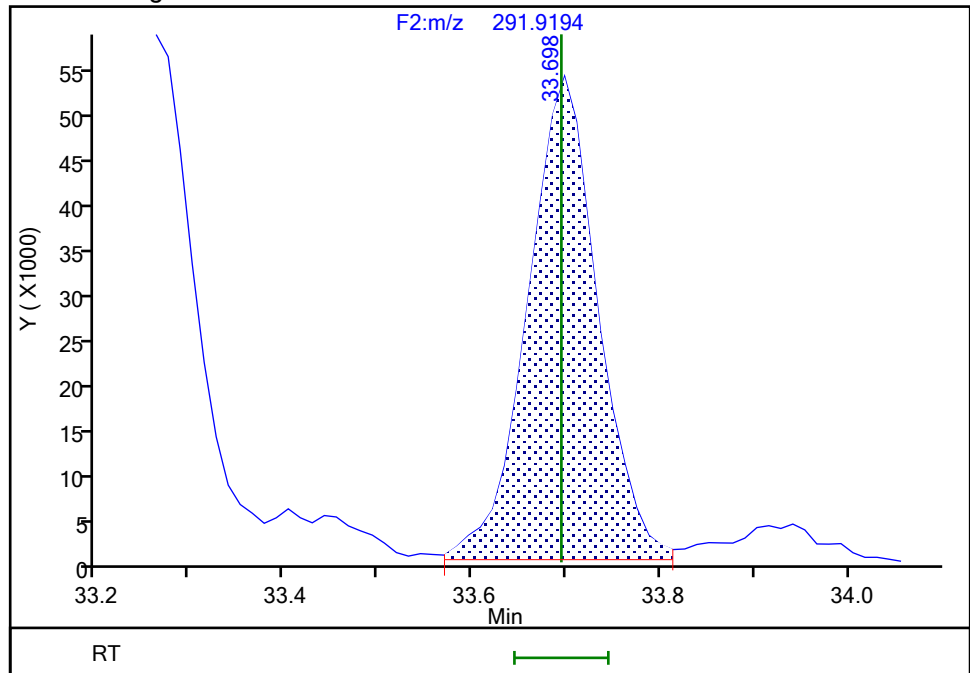
RT: 33.70
Area: 278092
Amount: 4.973199
Amount Units: pg/ul

Processing Integration Results



RT: 33.70
Area: 277706
Amount: 4.914192
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:45:31 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

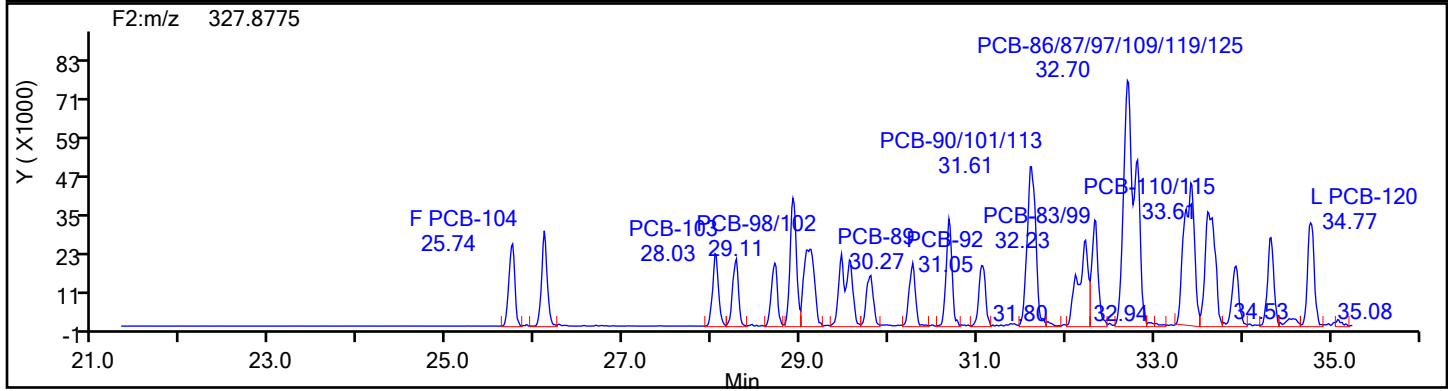
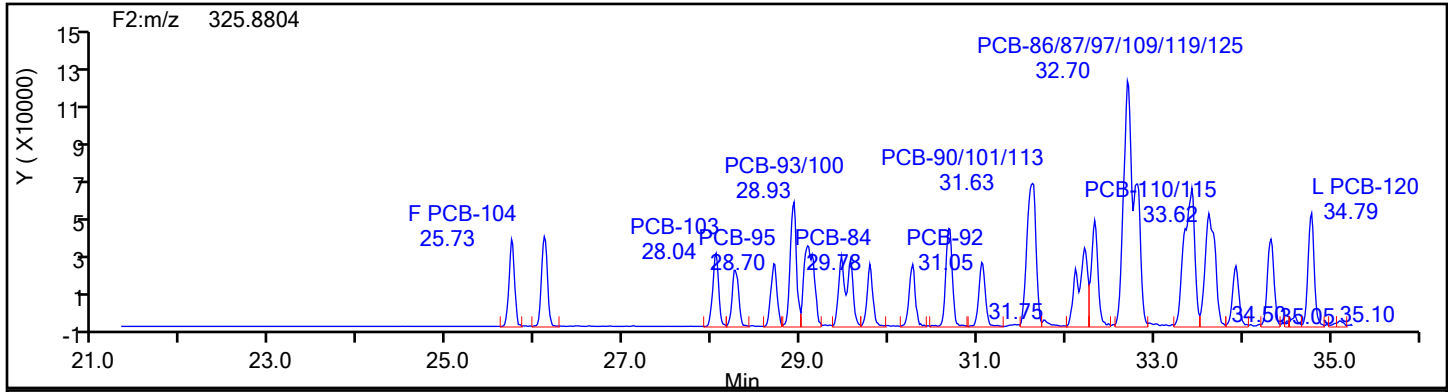
Worklist#: 87130

Sample Line#: 3

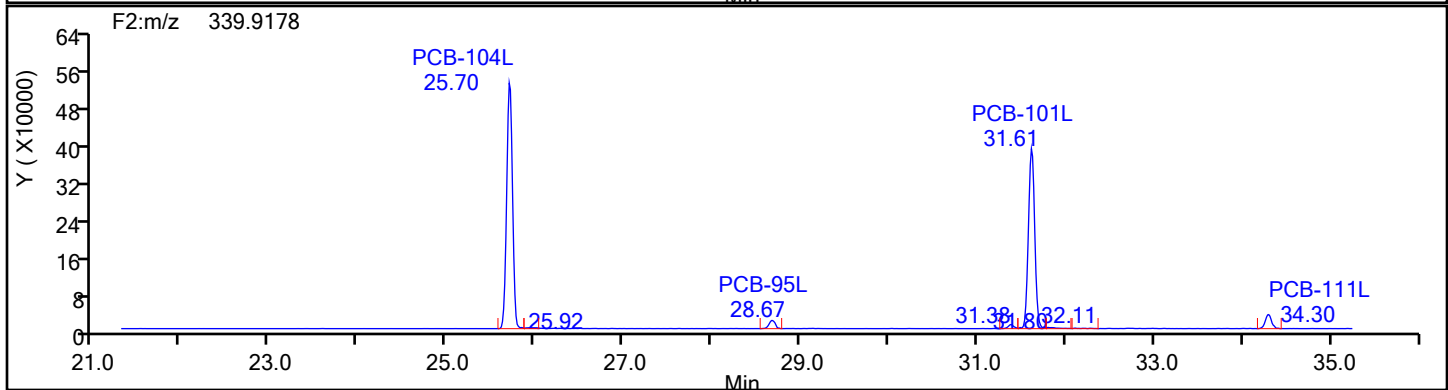
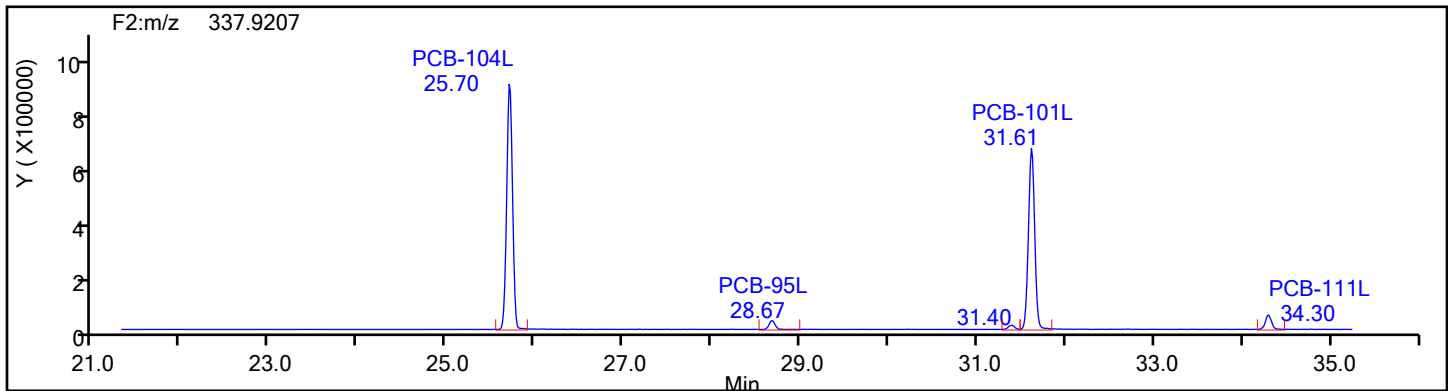
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

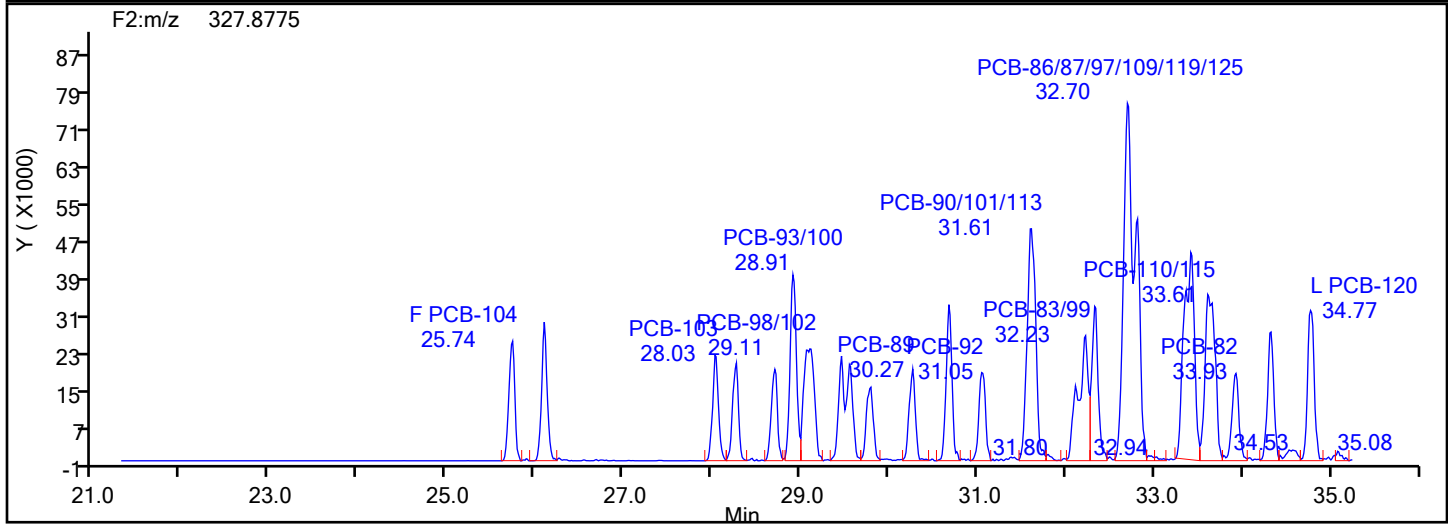
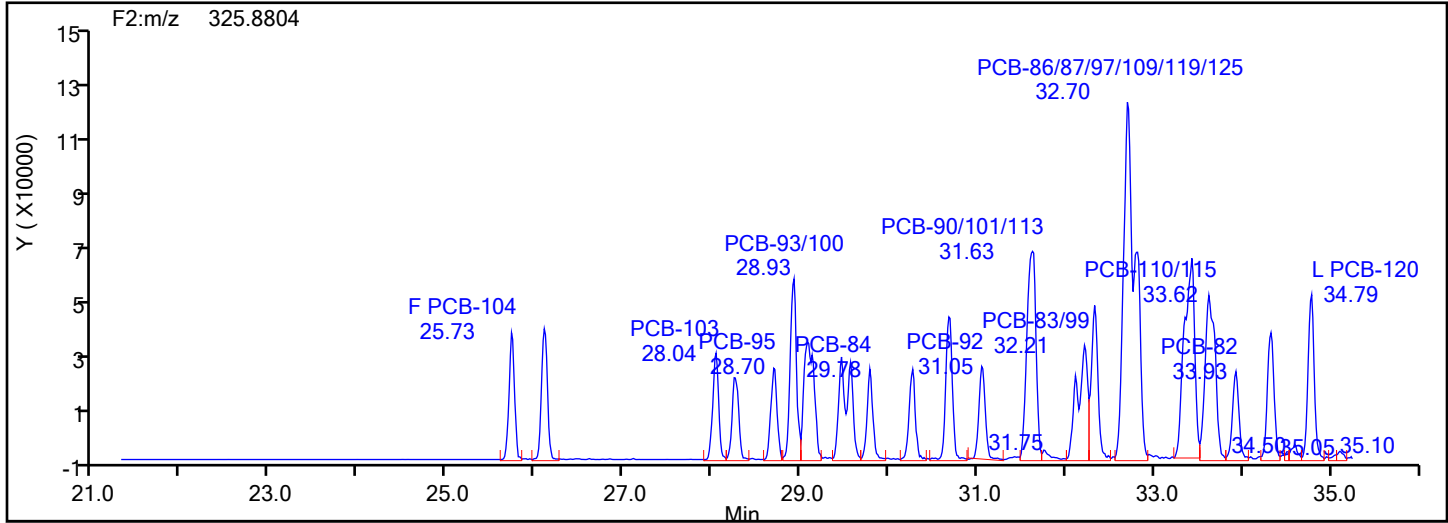
Worklist#: 87130

Sample Line#: 3

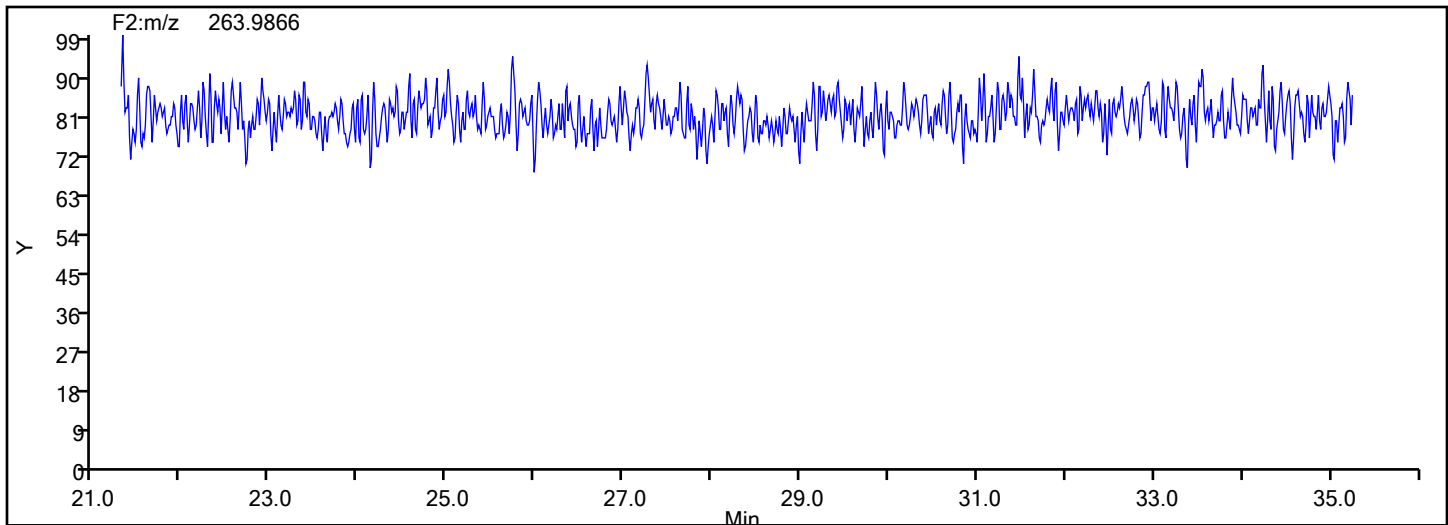
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

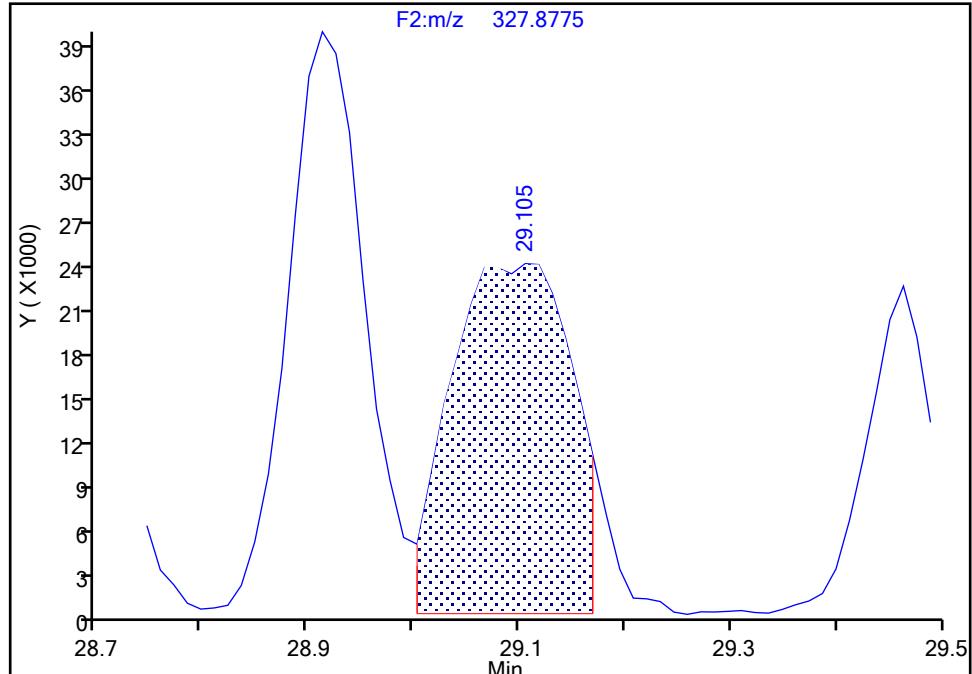
Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 2

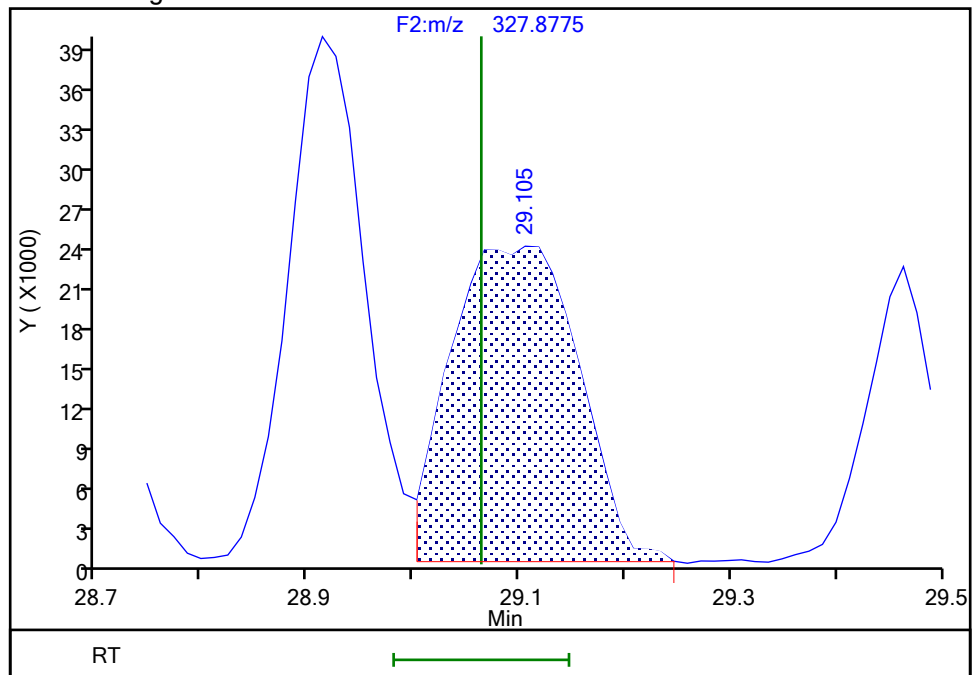
RT: 29.11
Area: 186251
Amount: 9.475668
Amount Units: pg/ul

Processing Integration Results



RT: 29.11
Area: 199350
Amount: 10.104036
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

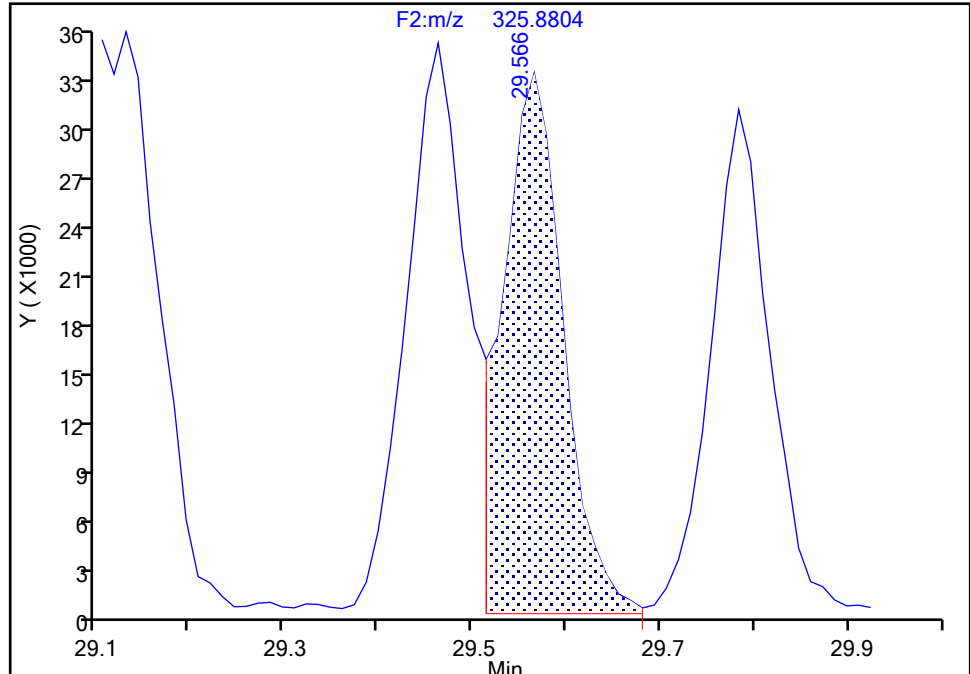
Detector F2(21.81 :35.54)

PCB-88/91, CAS: STL01812

Signal: 1

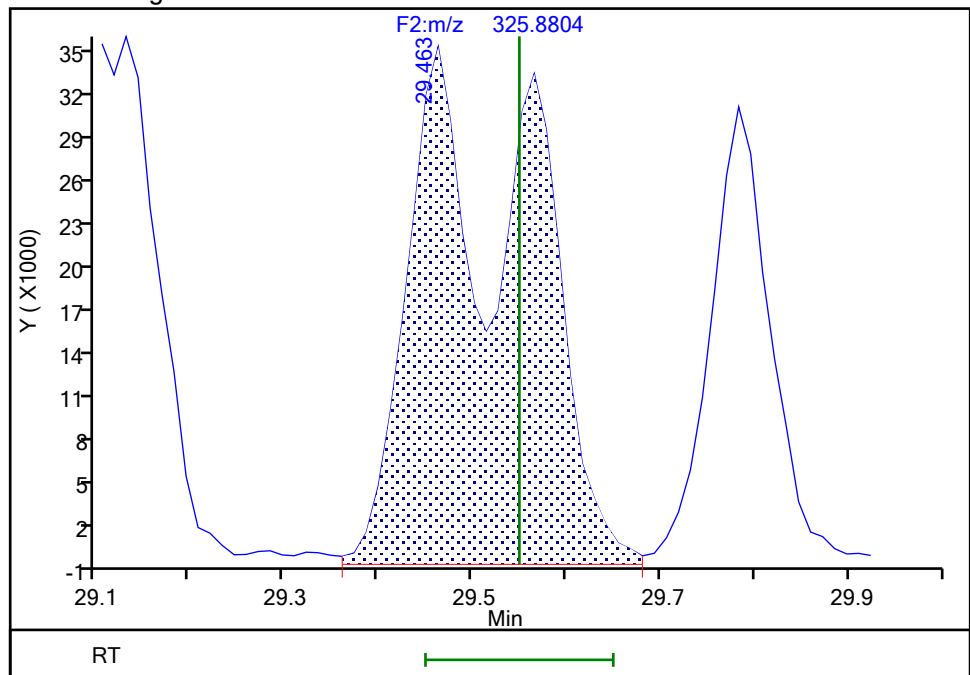
RT: 29.57
Area: 147771
Amount: 5.359548
Amount Units: pg/ul

Processing Integration Results



RT: 29.46
Area: 306322
Amount: 9.844164
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

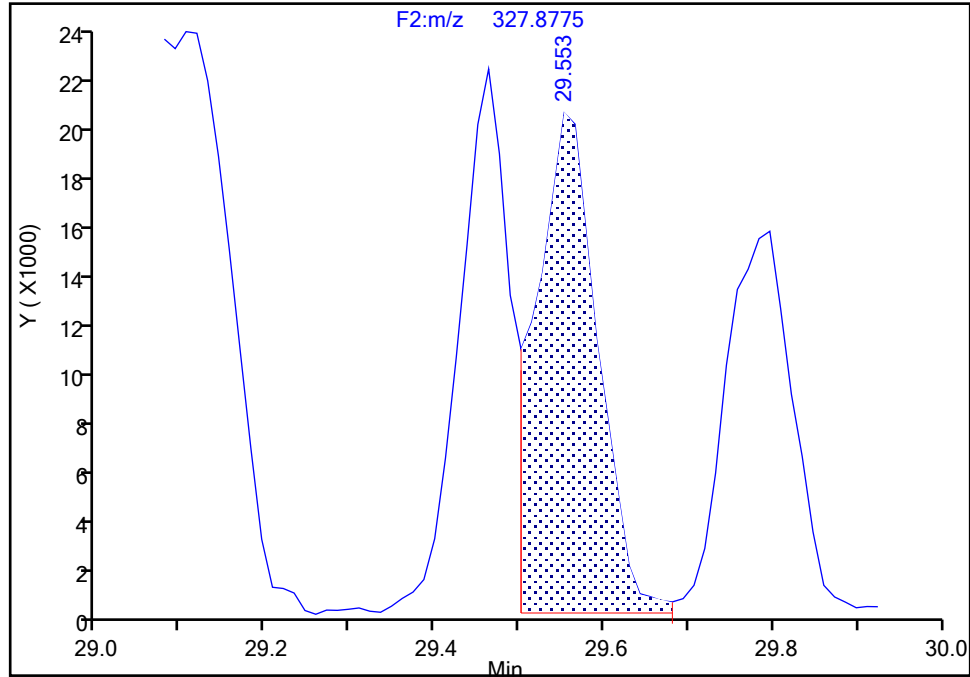
Detector F2(21.81 :35.54)

PCB-88/91, CAS: STL01812

Signal: 2

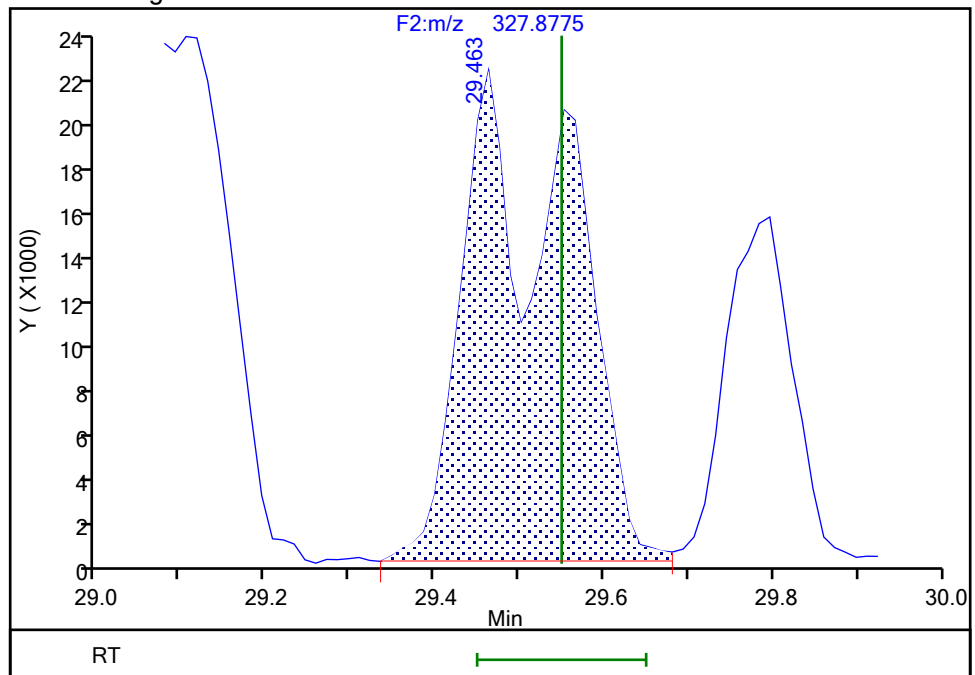
RT: 29.55
Area: 102135
Amount: 5.359548
Amount Units: pg/ul

Processing Integration Results



RT: 29.46
Area: 191203
Amount: 9.844164
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:26 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFWC-GS-2024-053364

9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

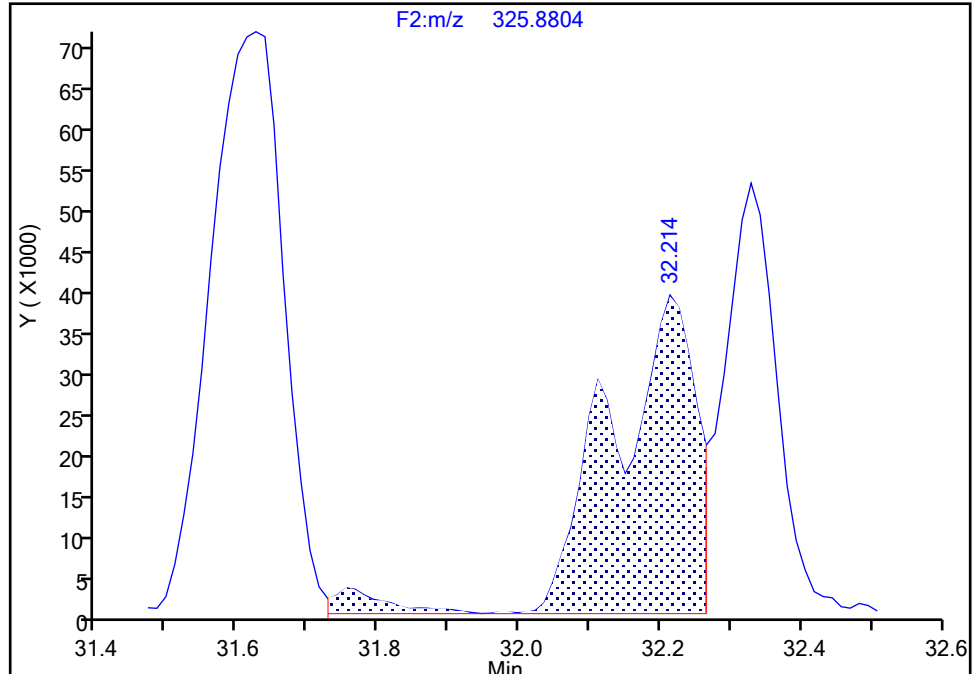
F2(21.81 :35.54)

PCB-83/99, CAS: STL01809

Signal: 1

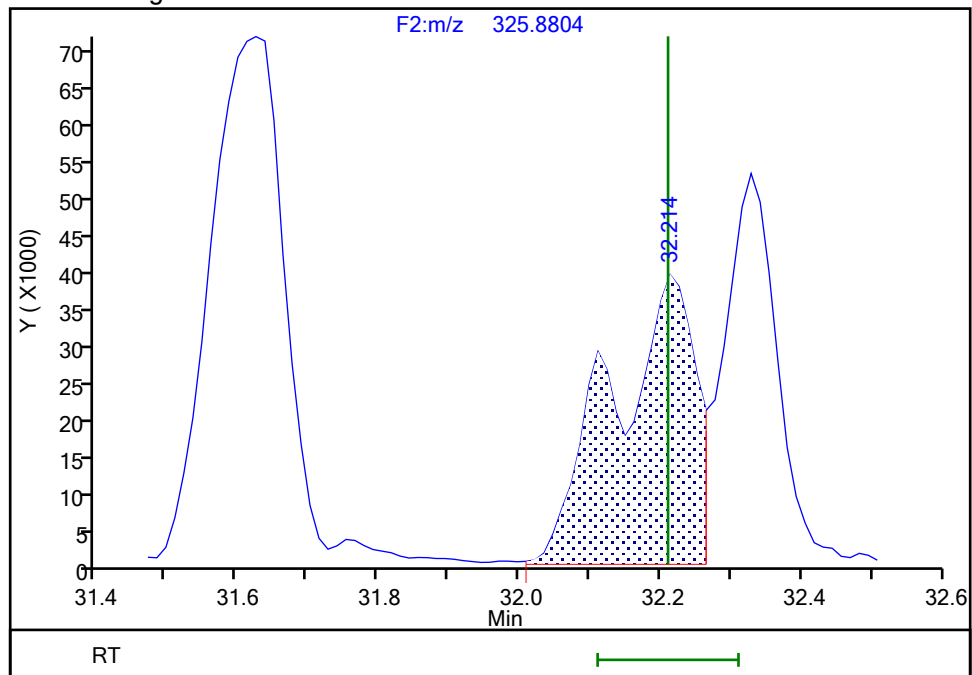
RT: 32.21
Area: 334118
Amount: 9.973734
Amount Units: pg/ul

Processing Integration Results



RT: 32.21
Area: 315858
Amount: 10.000444
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:40 -04:00:00 (UTC)

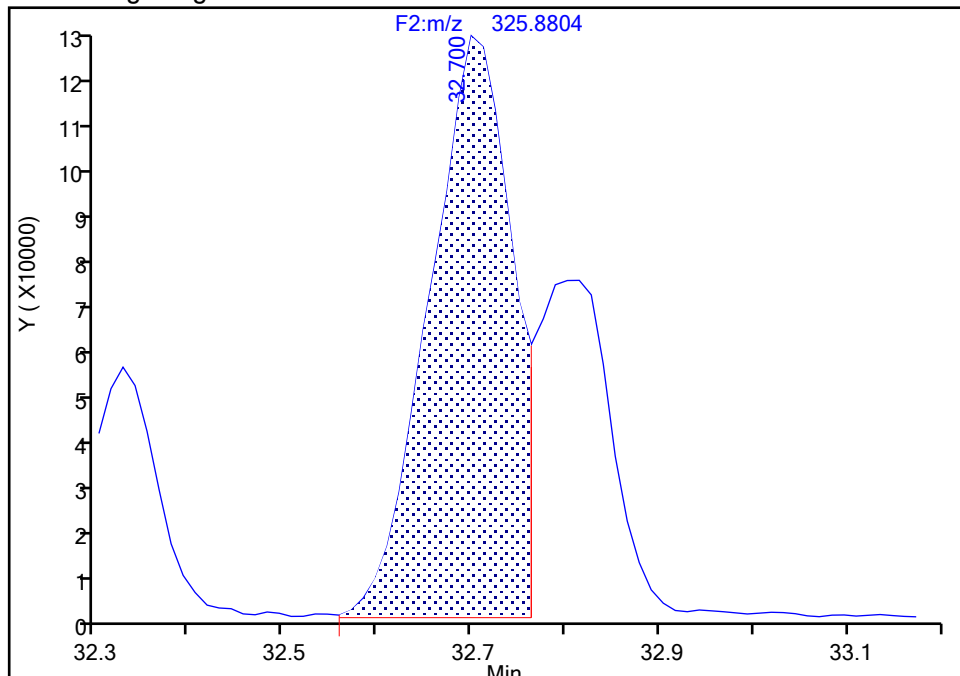
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Detector F2(21.81 :35.54)

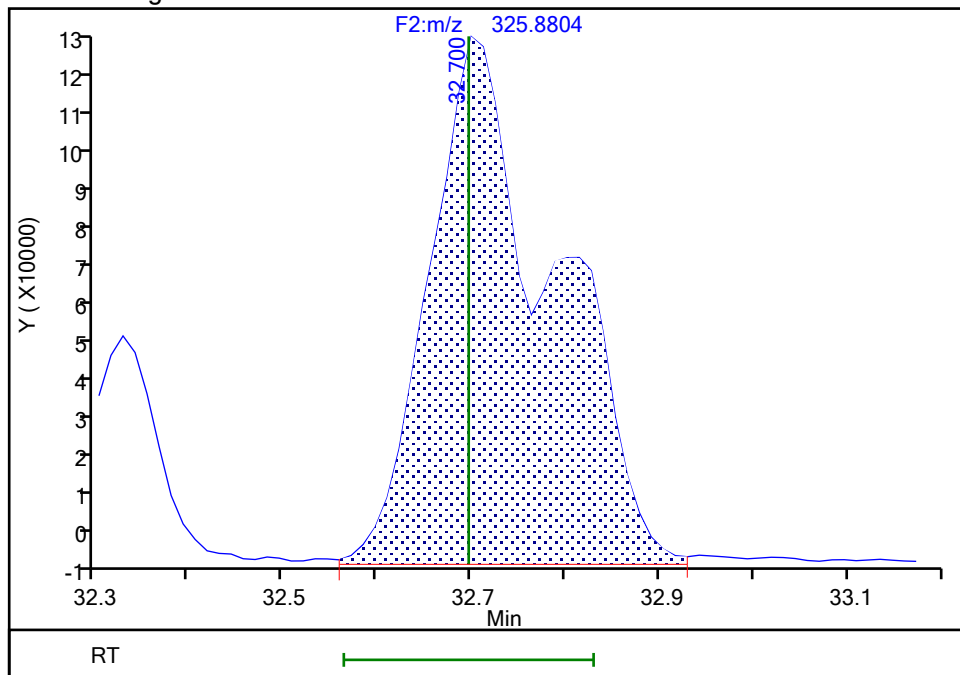
Signal: 1

Processing Integration Results



RT: 32.70
Area: 1133108
Amount: 27.958304
Amount Units: pg/ul

Manual Integration Results



BASFHWC-Gelsma-2024-003366
2:43:26 PM

Eurofins Knoxville

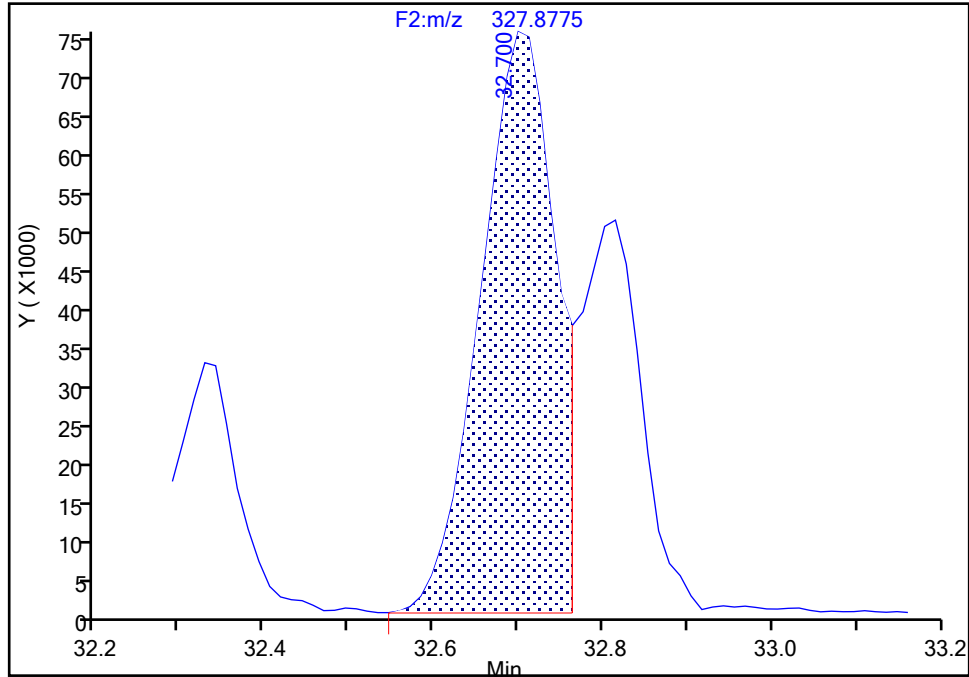
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

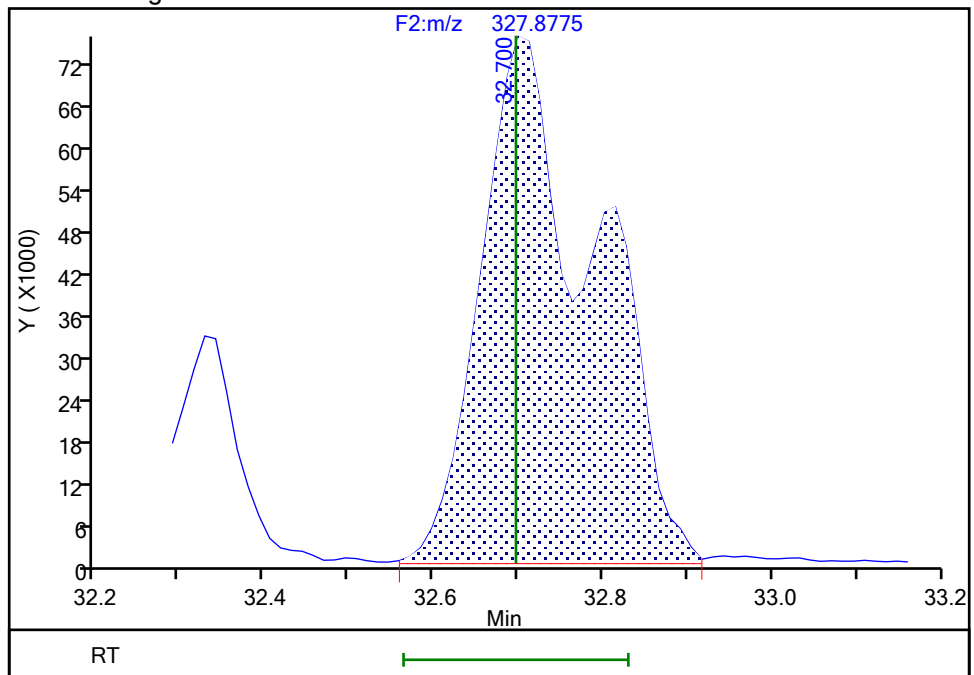
RT: 32.70
Area: 461152
Amount: 19.598860
Amount Units: pg/ul

Processing Integration Results



RT: 32.70
Area: 713670
Amount: 27.958304
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-012-2024-03367
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

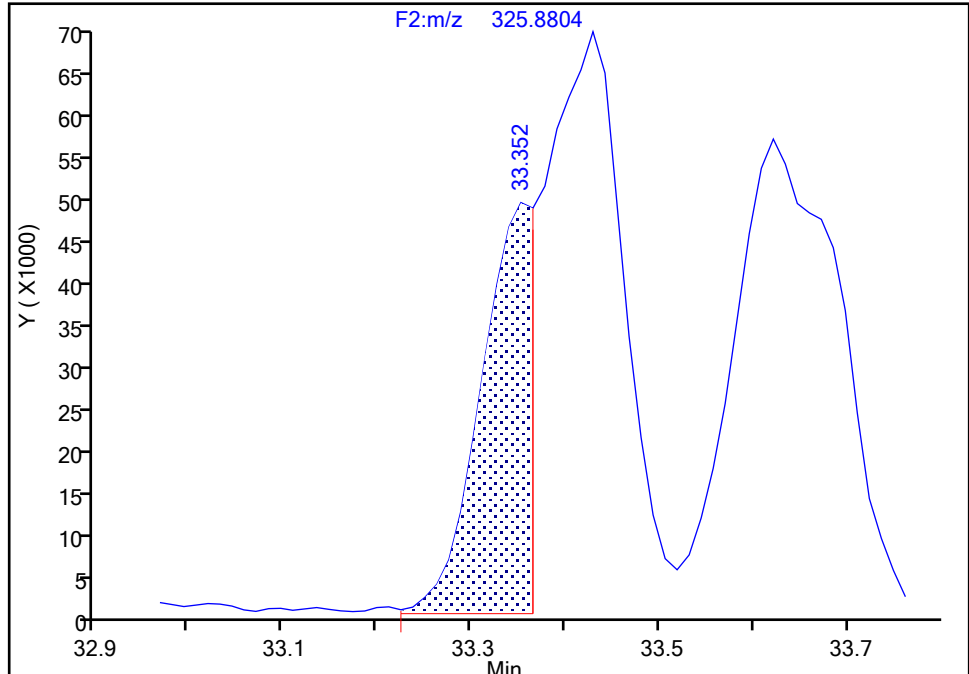
Detector: F2(21.81 :35.54)

PCB-85/116/117, CAS: STL01810

Signal: 1

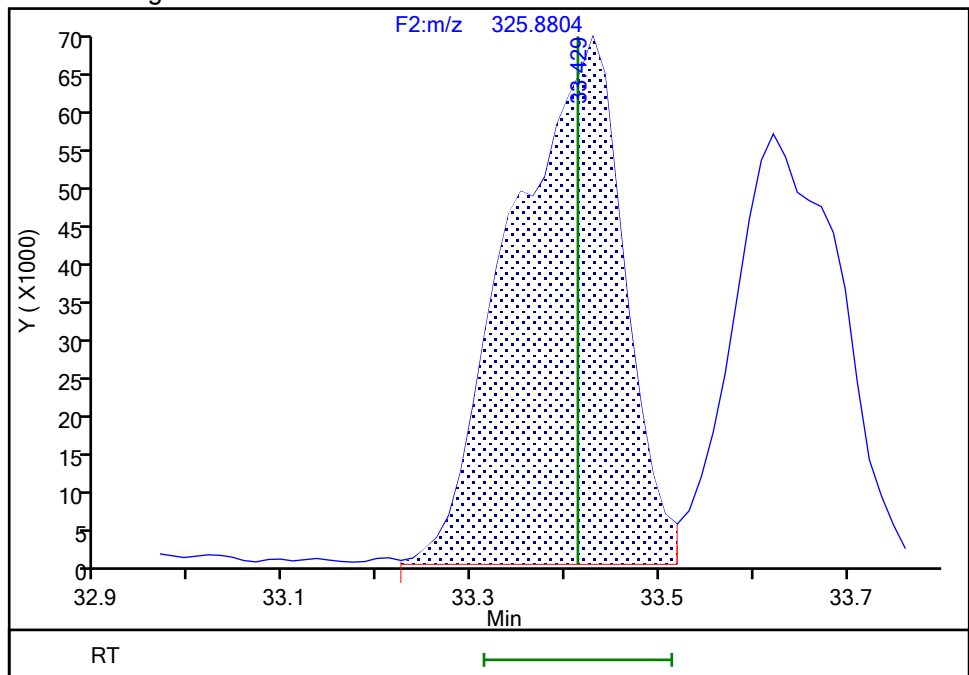
RT: 33.35
Area: 180066
Amount: 5.936423
Amount Units: pg/ul

Processing Integration Results



RT: 33.43
Area: 572951
Amount: 14.293951
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

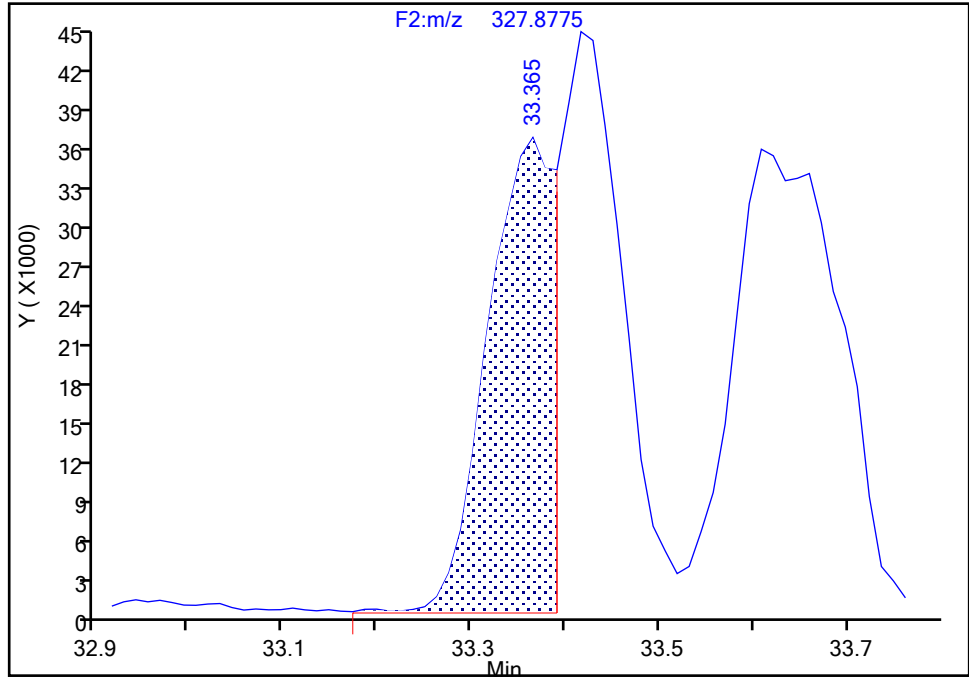
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-85/116/117, CAS: STL01810

Signal: 2

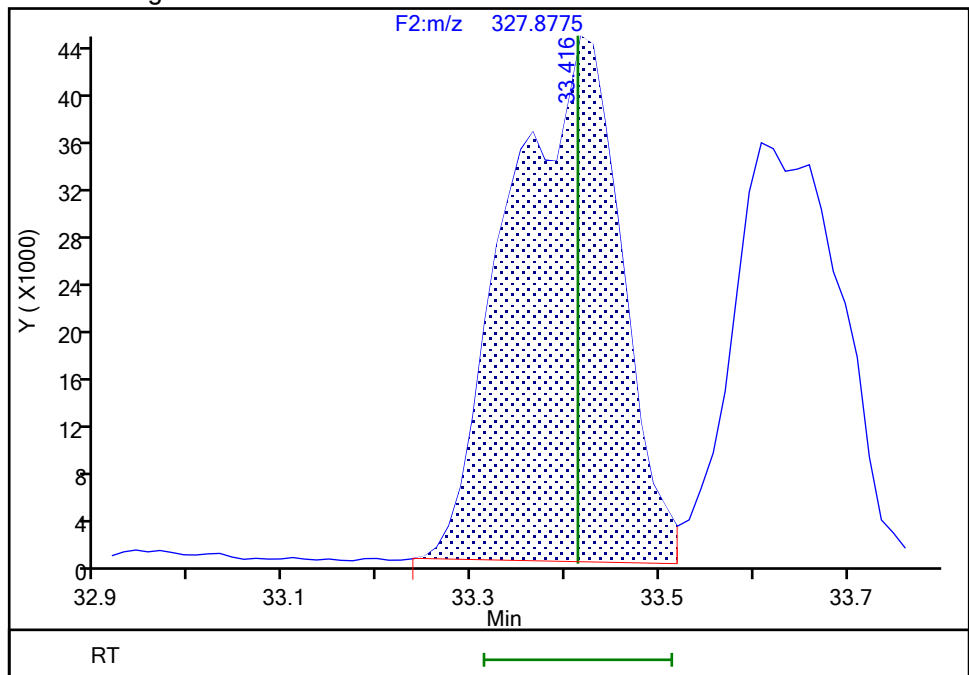
RT: 33.37
Area: 172825
Amount: 5.936423
Amount Units: pg/ul

Processing Integration Results



RT: 33.42
Area: 365388
Amount: 14.293951
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1917 of 3076

BASFHWC-G-012-2024-03369
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

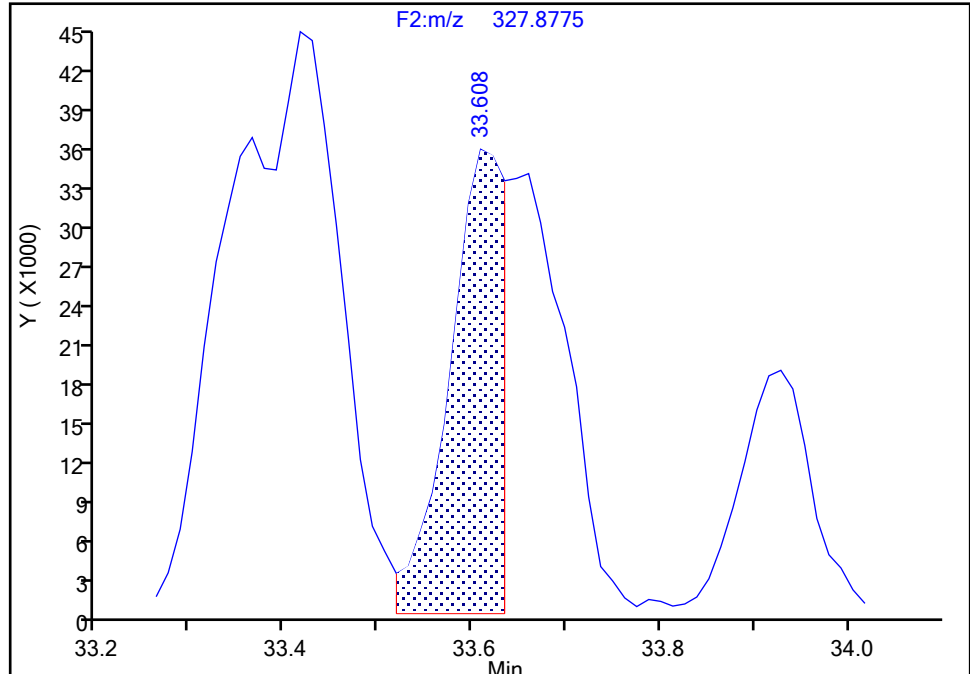
Detector F2(21.81 :35.54)

PCB-110/115, CAS: STL01826

Signal: 2

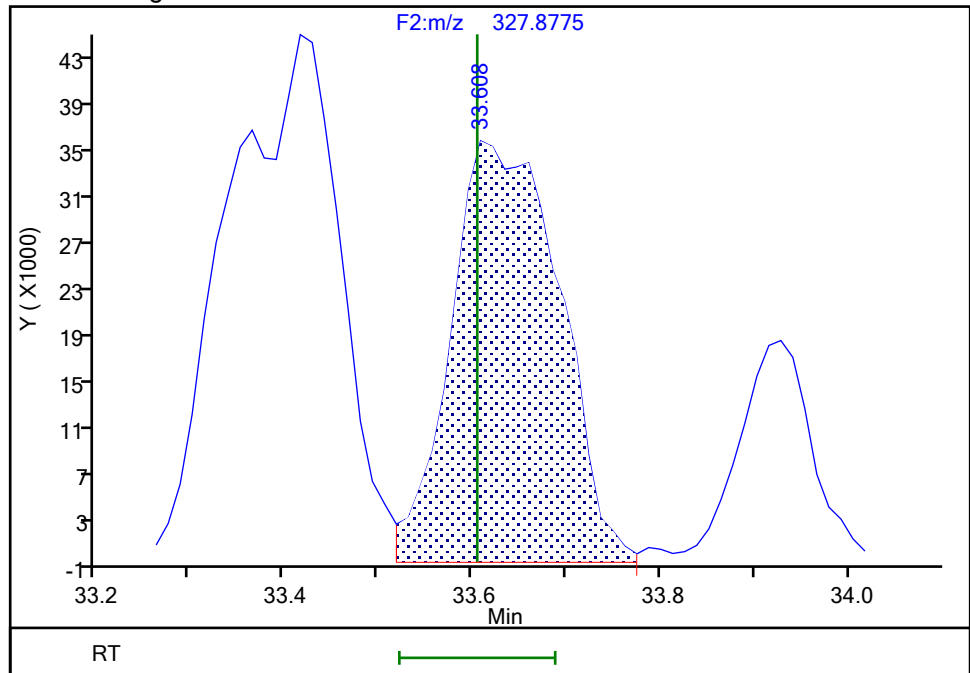
RT: 33.61
Area: 135008
Amount: 7.549598
Amount Units: pg/ul

Processing Integration Results



RT: 33.61
Area: 283256
Amount: 9.765207
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

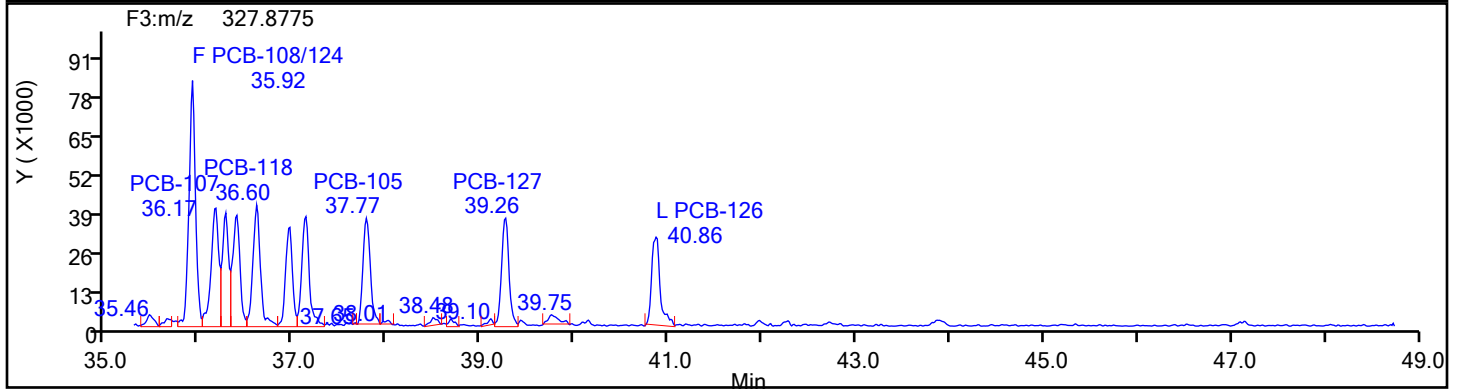
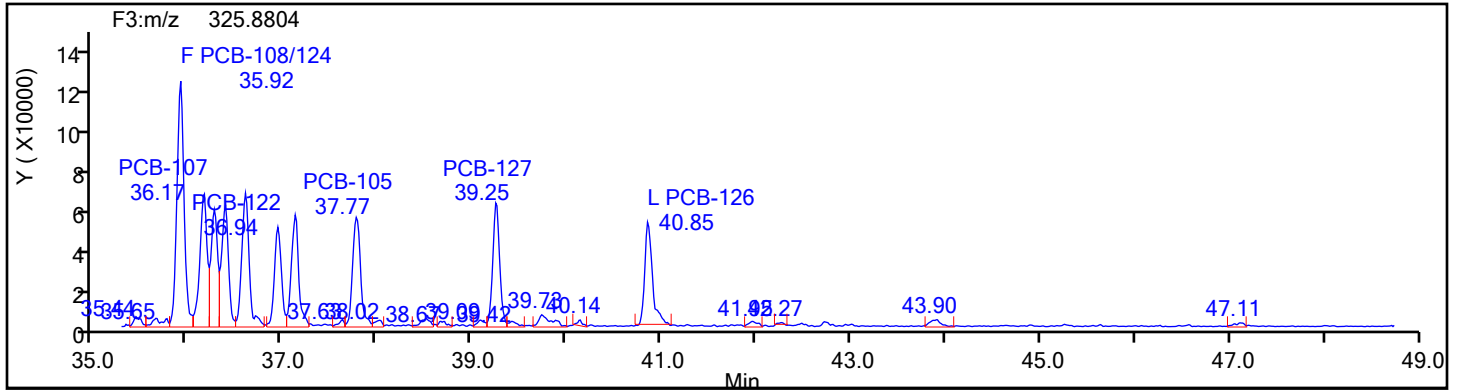
Worklist#: 87130

Sample Line#: 3

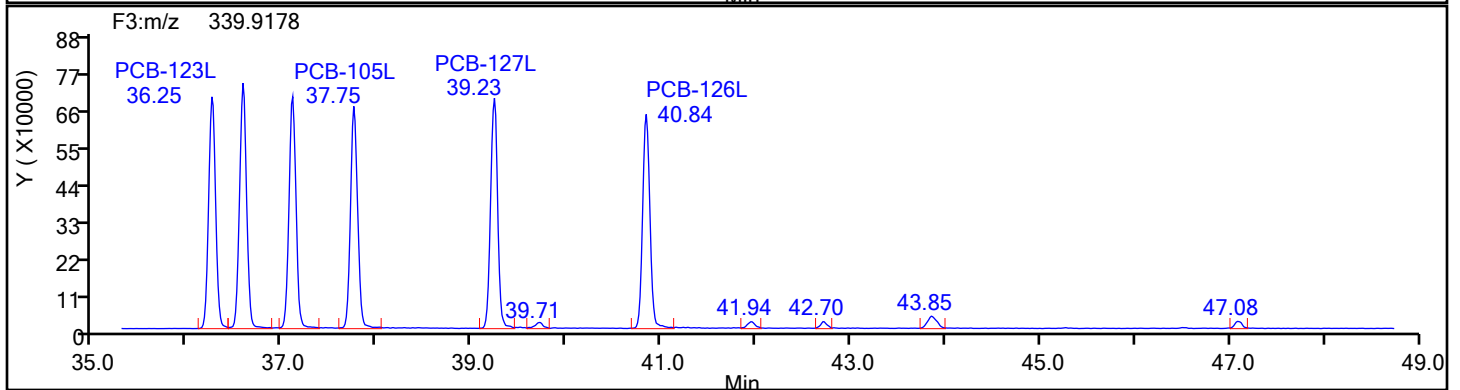
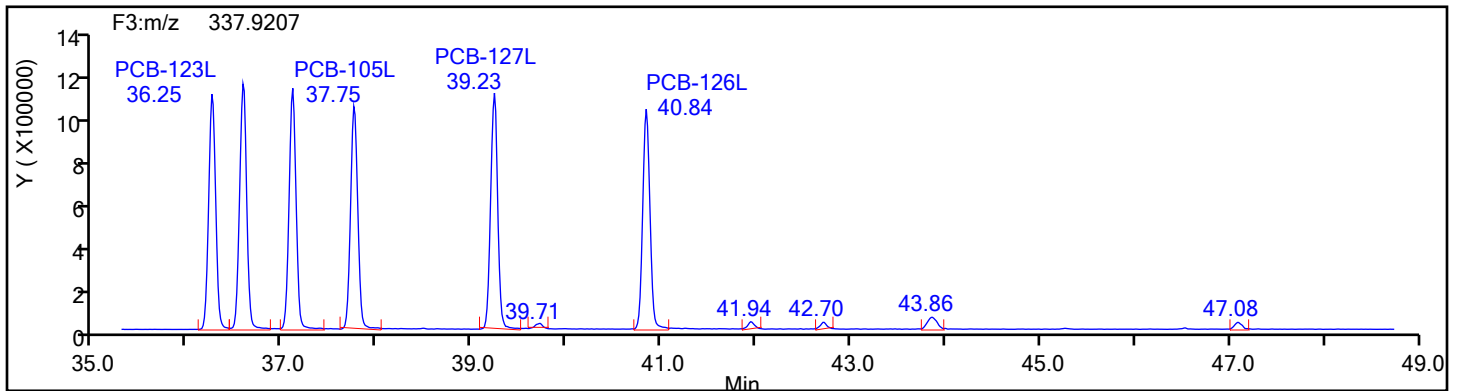
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

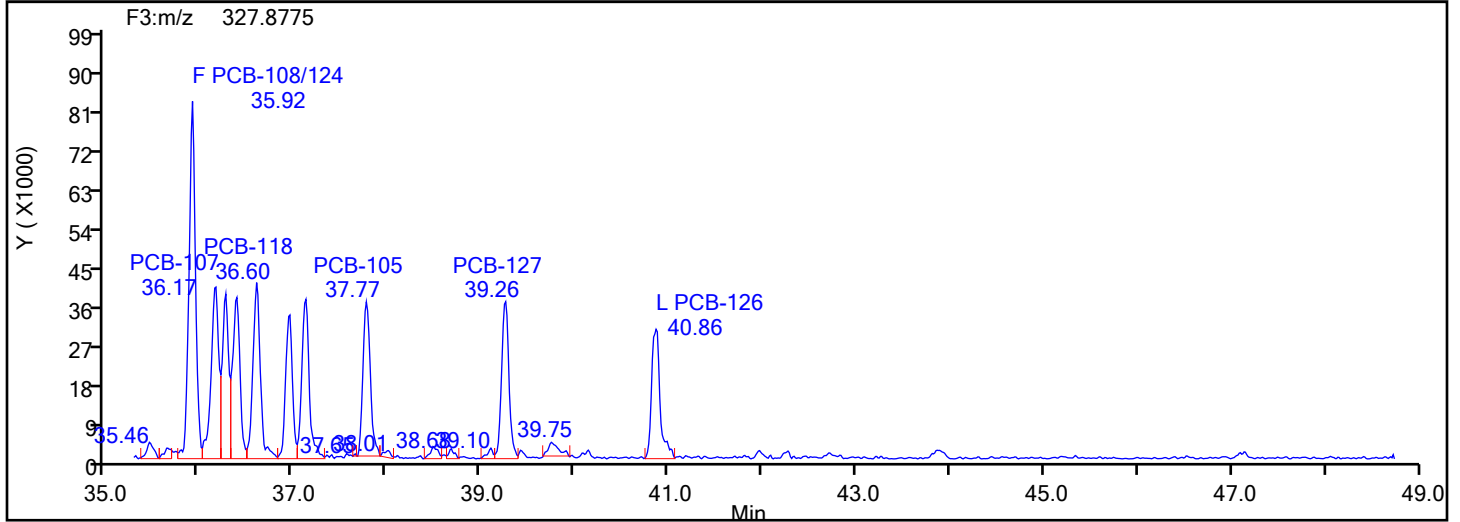
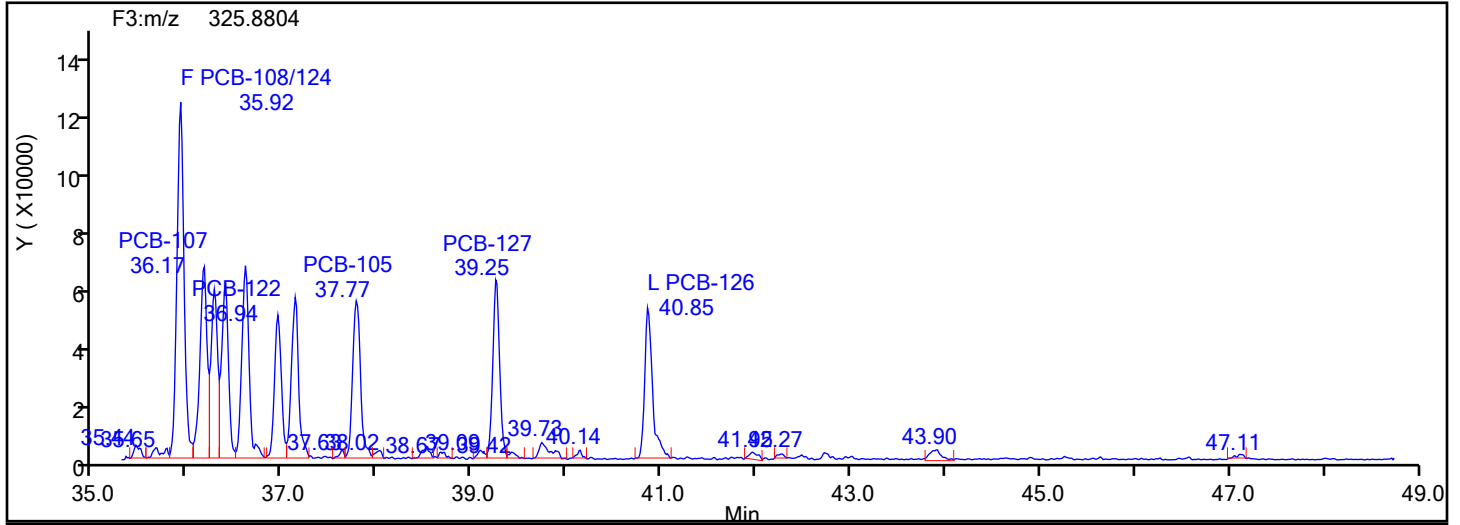
Worklist#: 87130

Sample Line#: 3

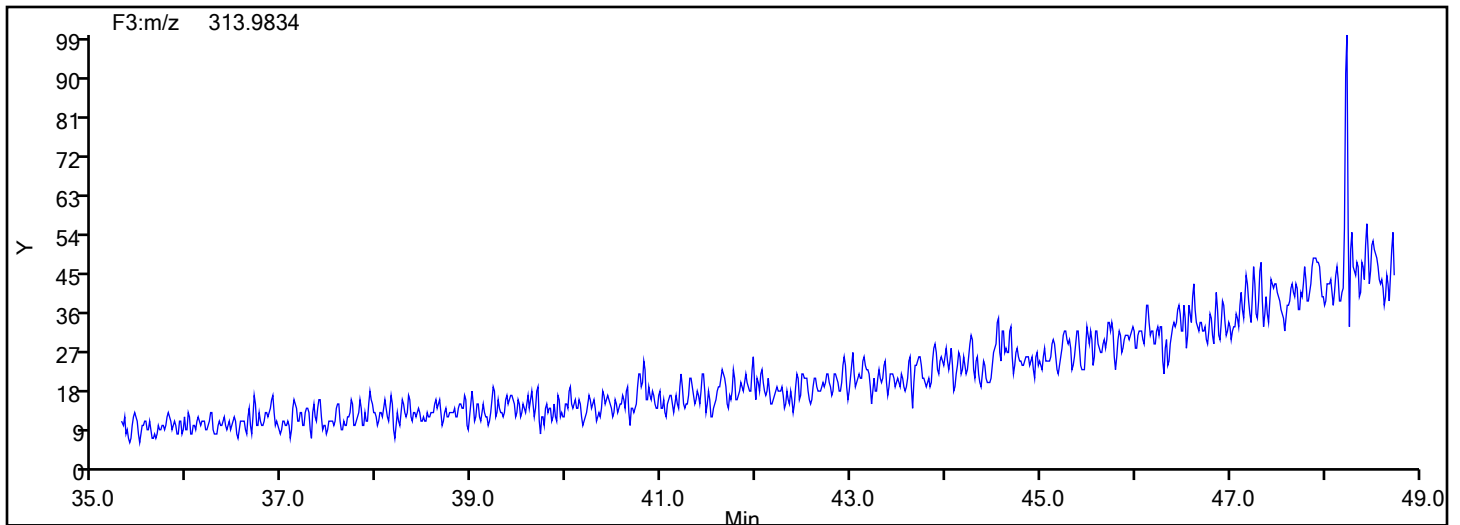
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

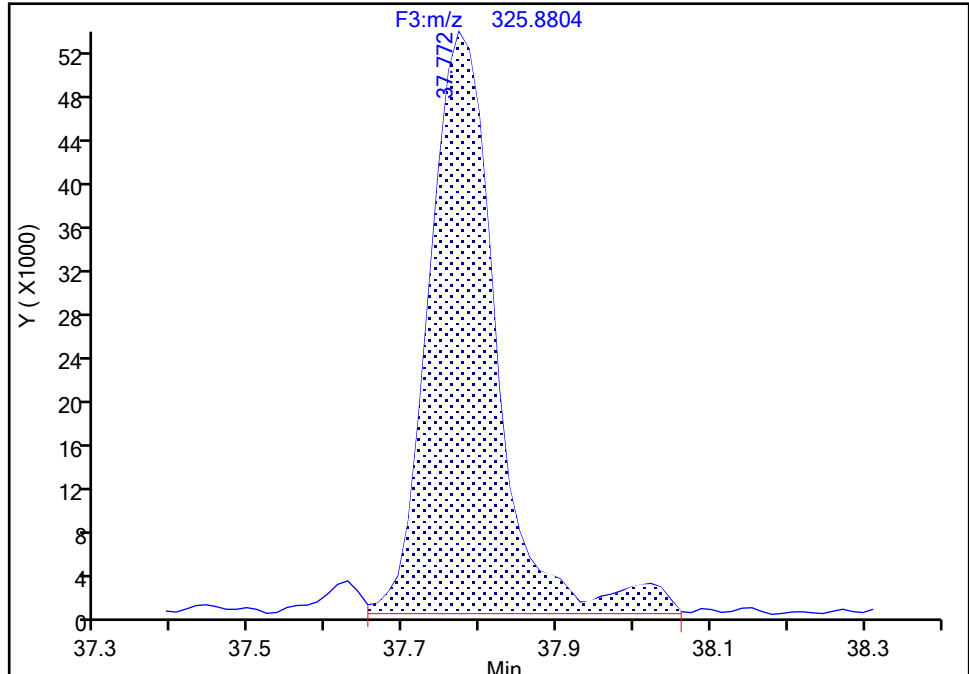
Detector F3(35.64 :49.10)

PCB-105, CAS: 32598-14-4

Signal: 1

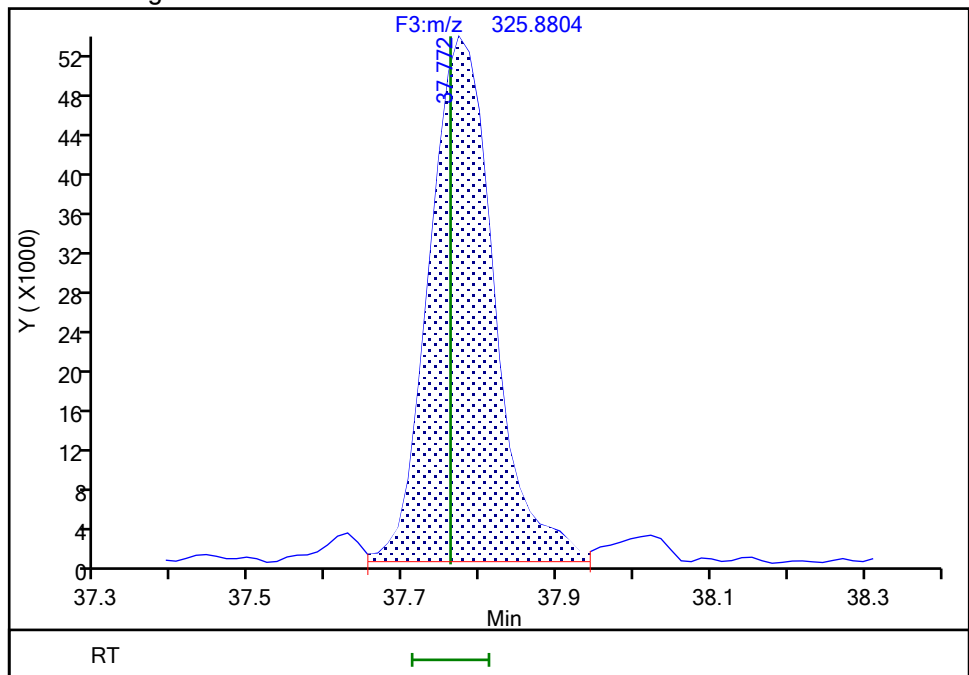
RT: 37.77
Area: 326291
Amount: 4.977767
Amount Units: pg/ul

Processing Integration Results



RT: 37.77
Area: 313087
Amount: 4.755654
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:51 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

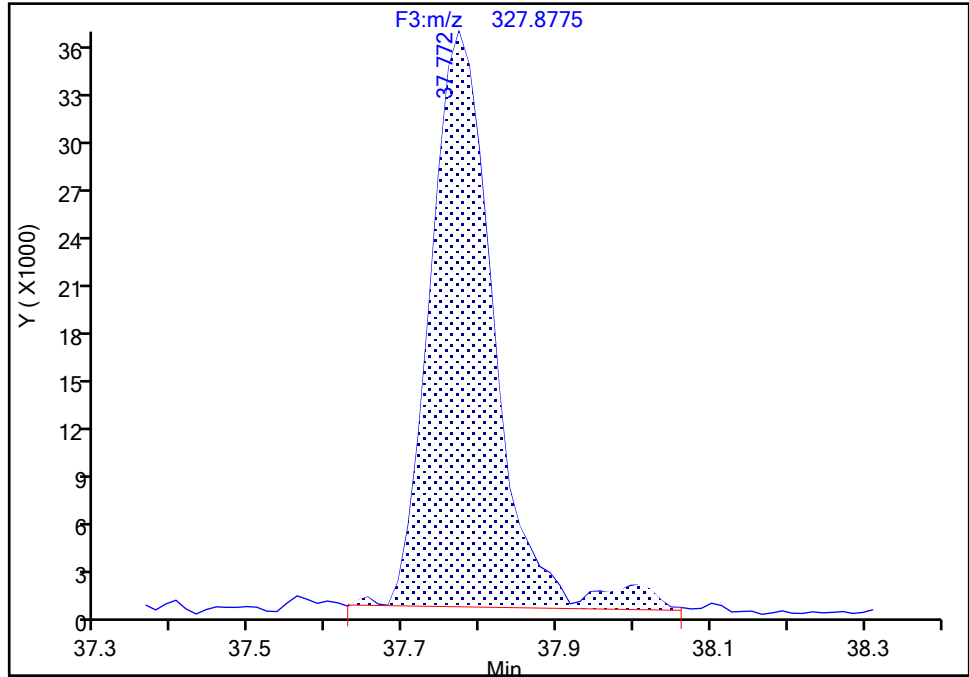
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-105, CAS: 32598-14-4

Signal: 2

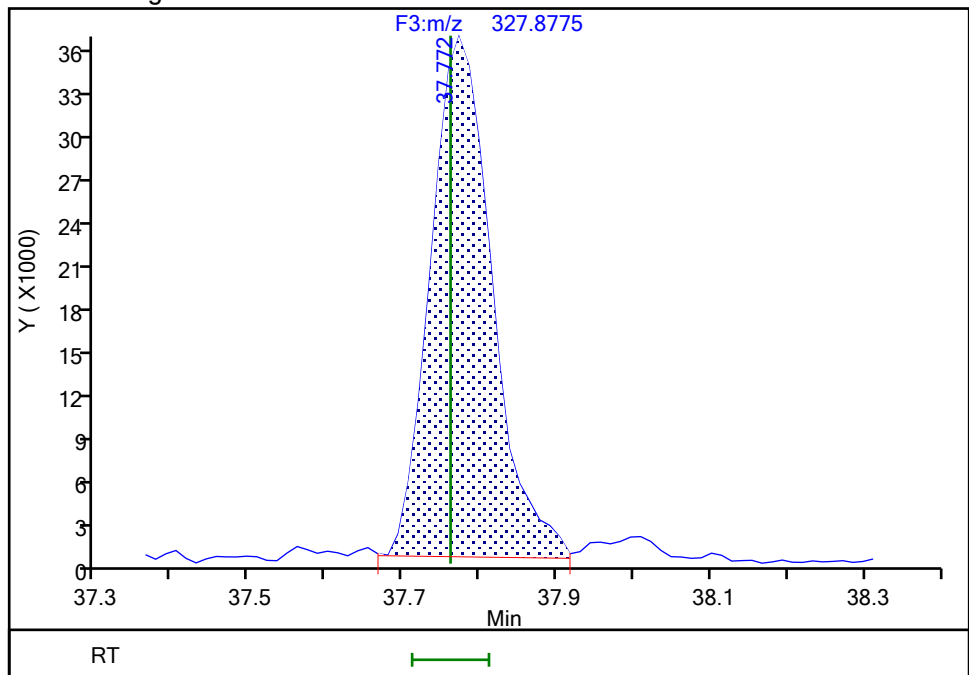
RT: 37.77
Area: 209289
Amount: 4.977767
Amount Units: pg/ul

Processing Integration Results



RT: 37.77
Area: 200314
Amount: 4.755654
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:55 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Page 1922 of 3076

BASFHWC-GS-2024-03374
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

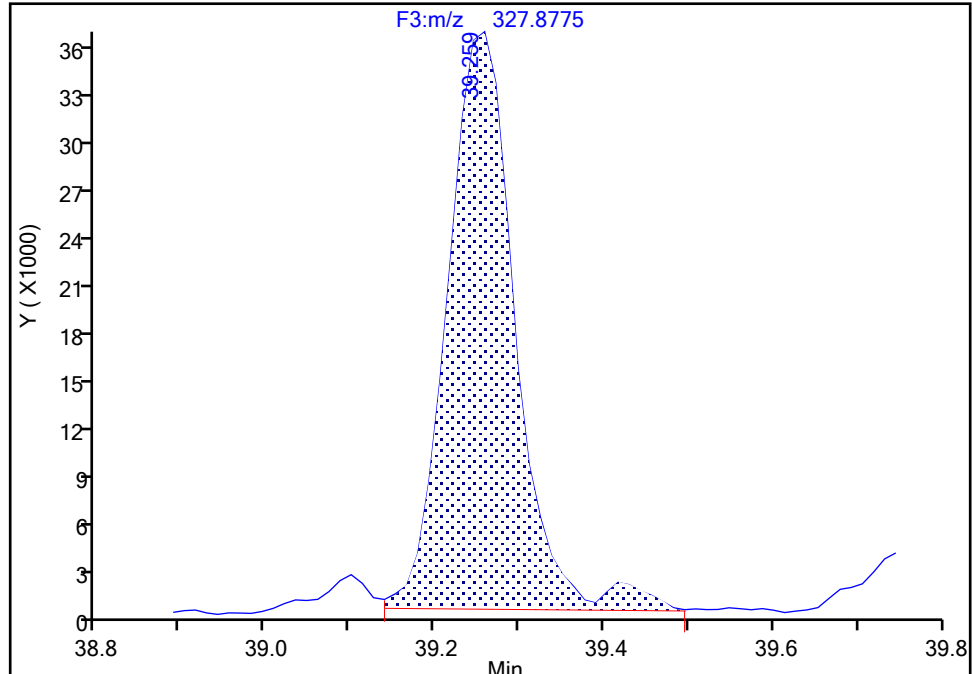
Detector F3(35.64 :49.10)

PCB-127, CAS: 39635-33-1

Signal: 2

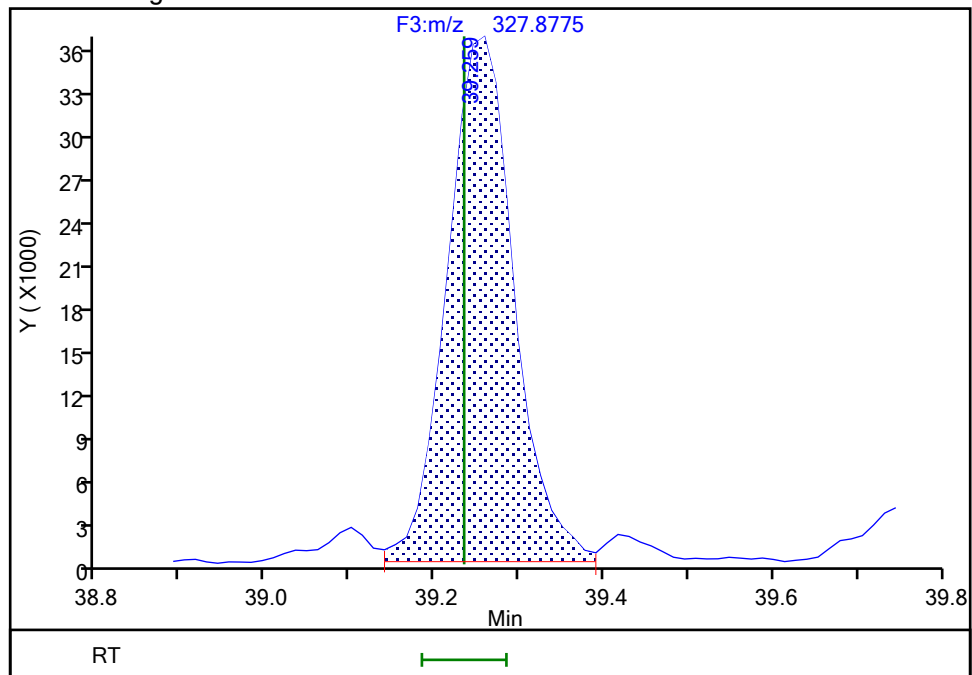
RT: 39.26
Area: 202843
Amount: 4.610039
Amount Units: pg/ul

Processing Integration Results



RT: 39.26
Area: 200669
Amount: 4.755101
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:48:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

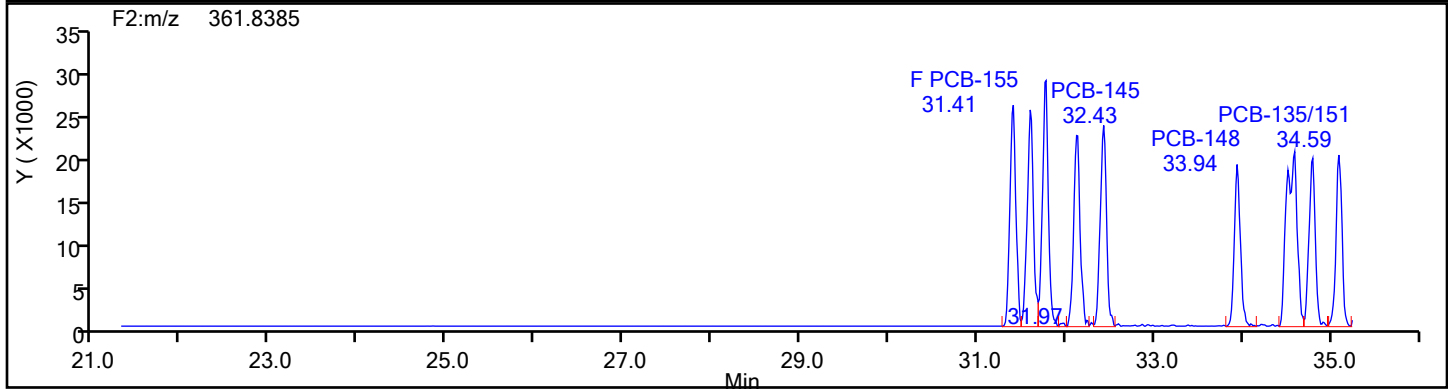
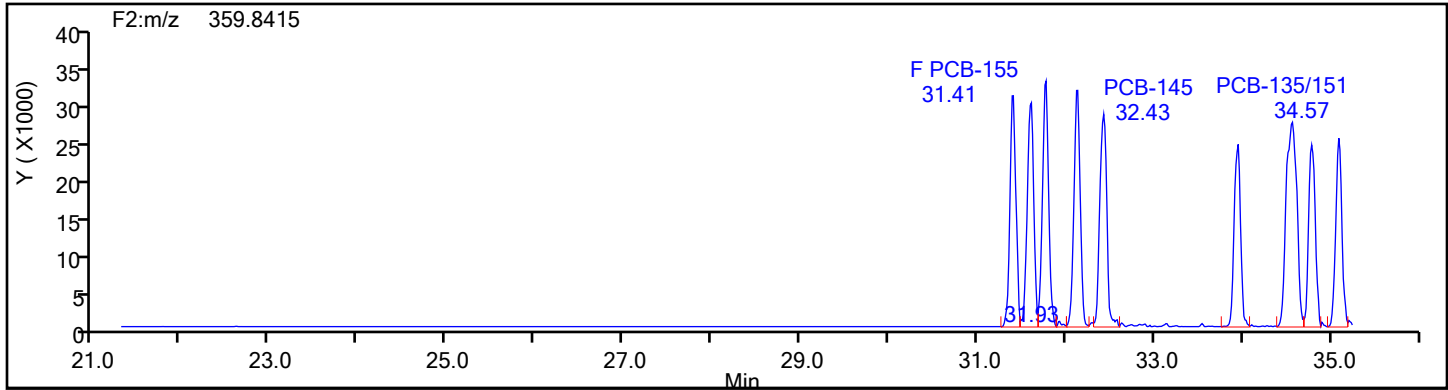
Worklist#: 87130

Sample Line#: 3

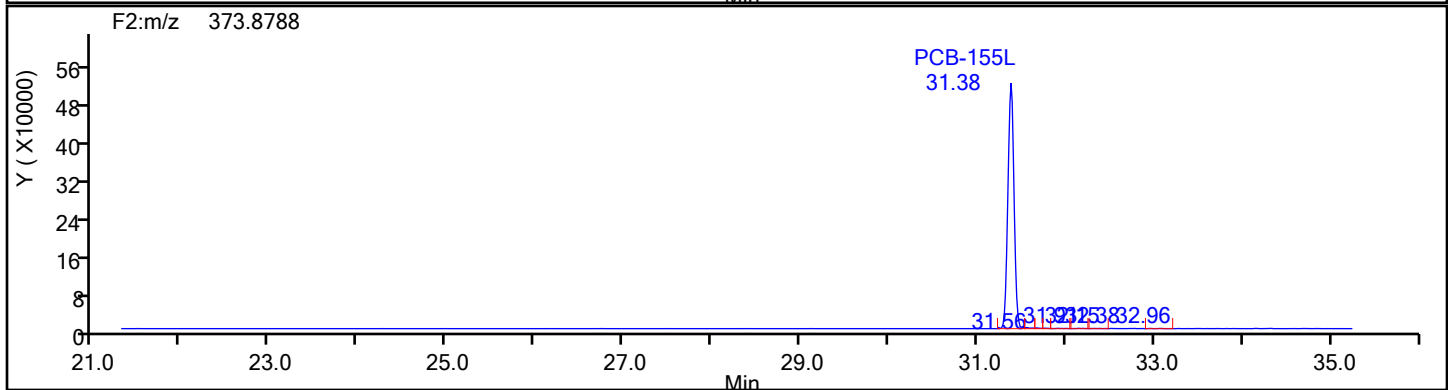
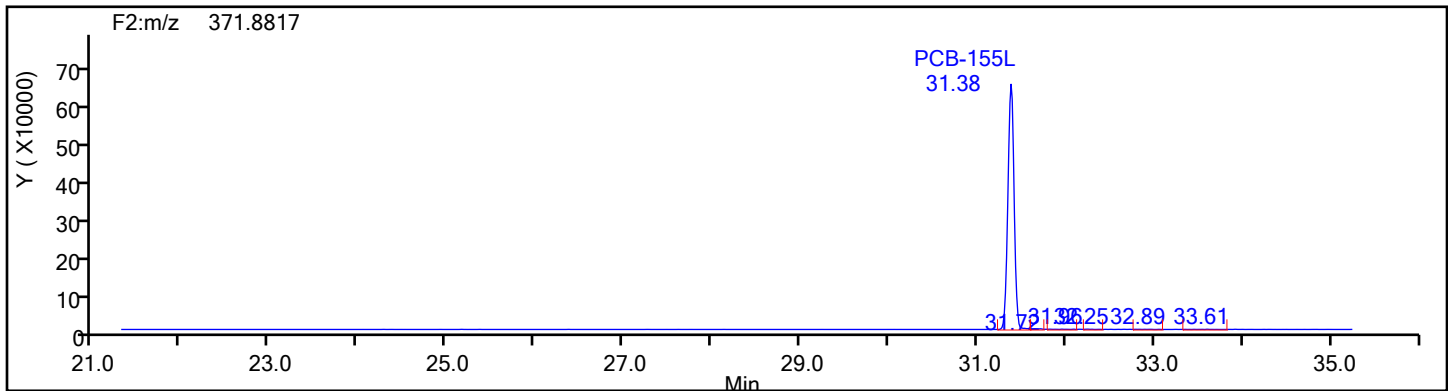
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

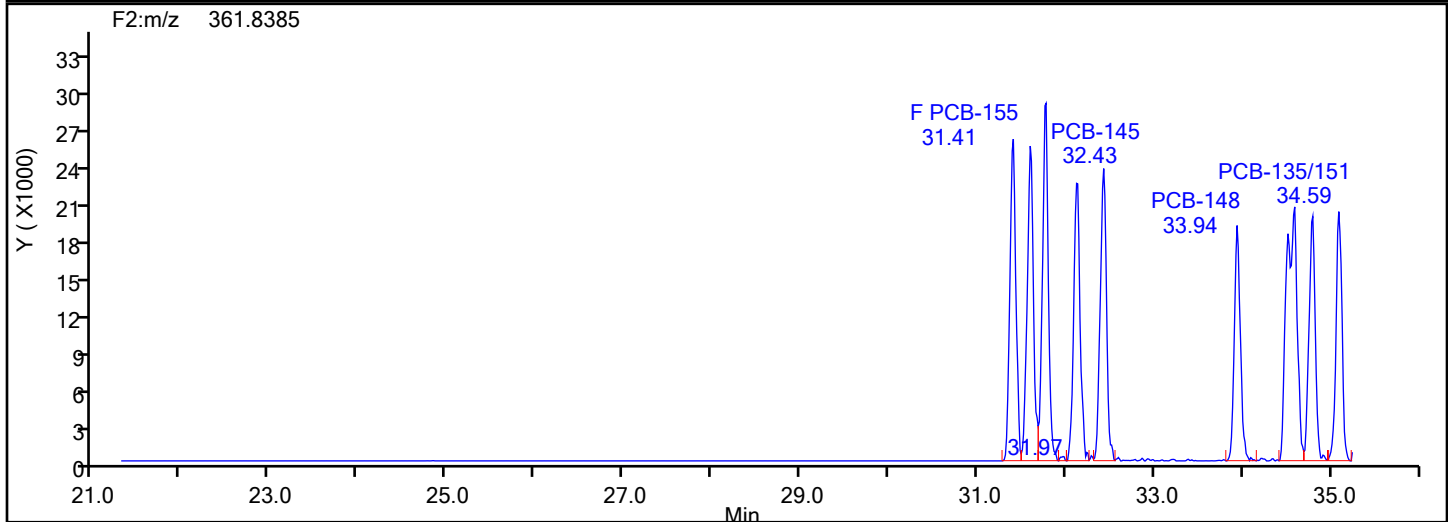
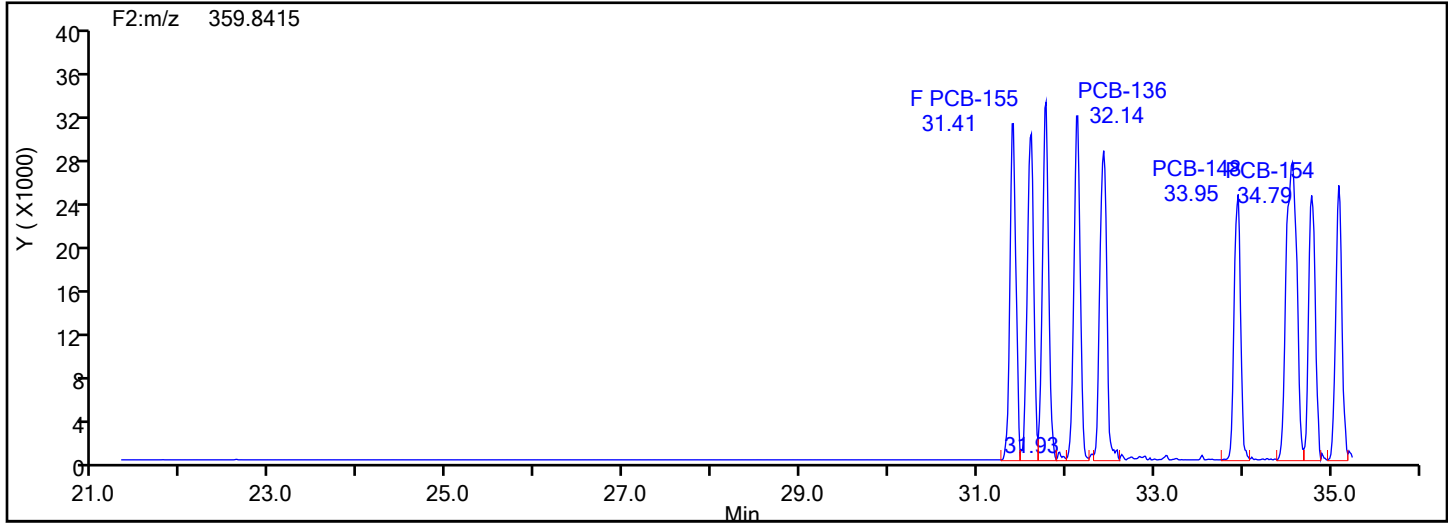


HxPCB F2 Standards

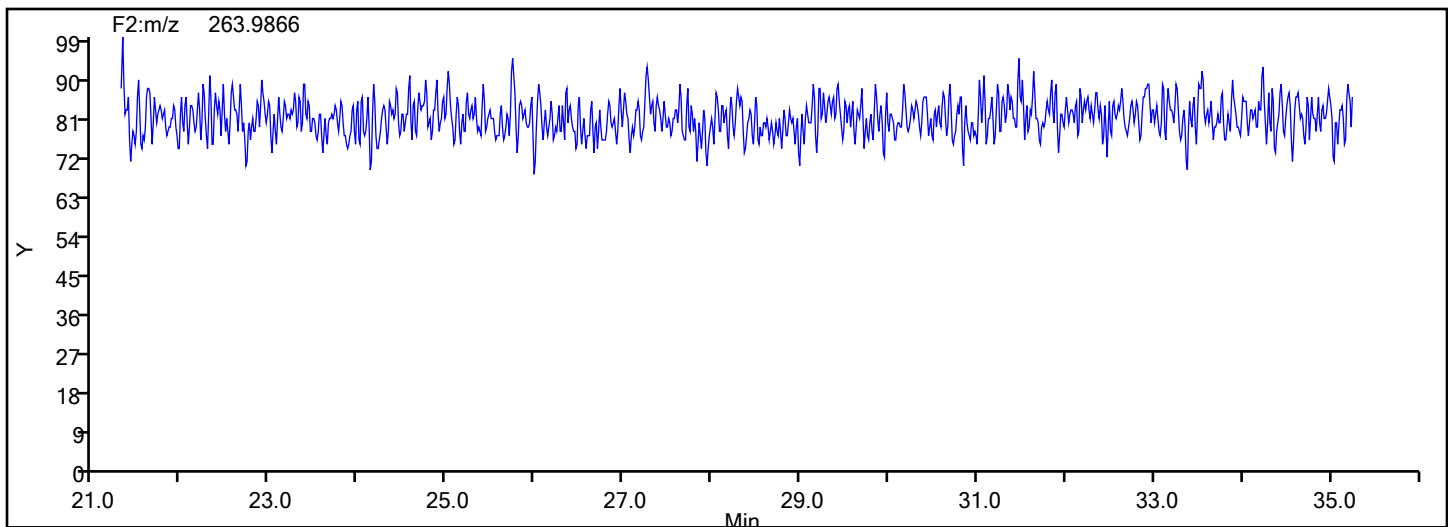


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 3
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

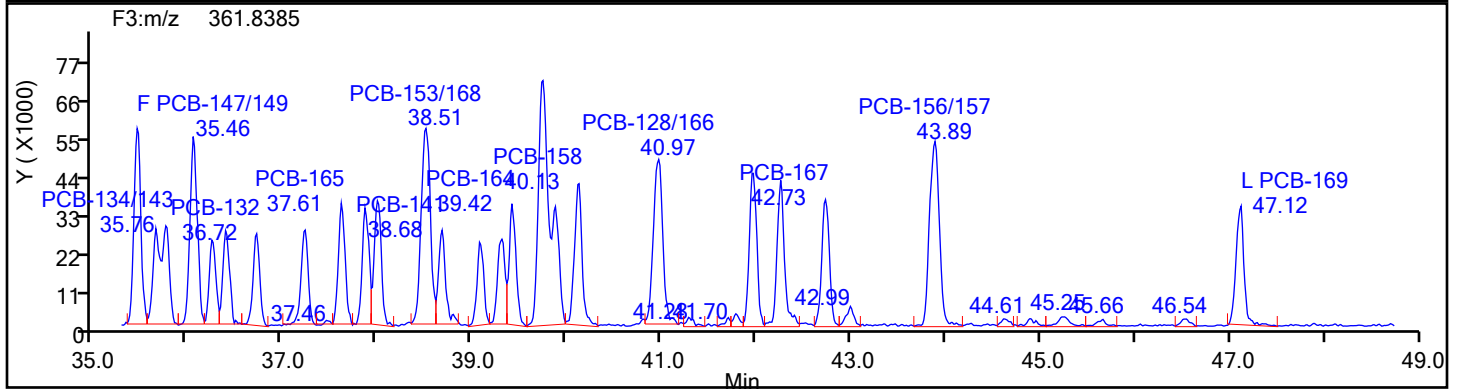
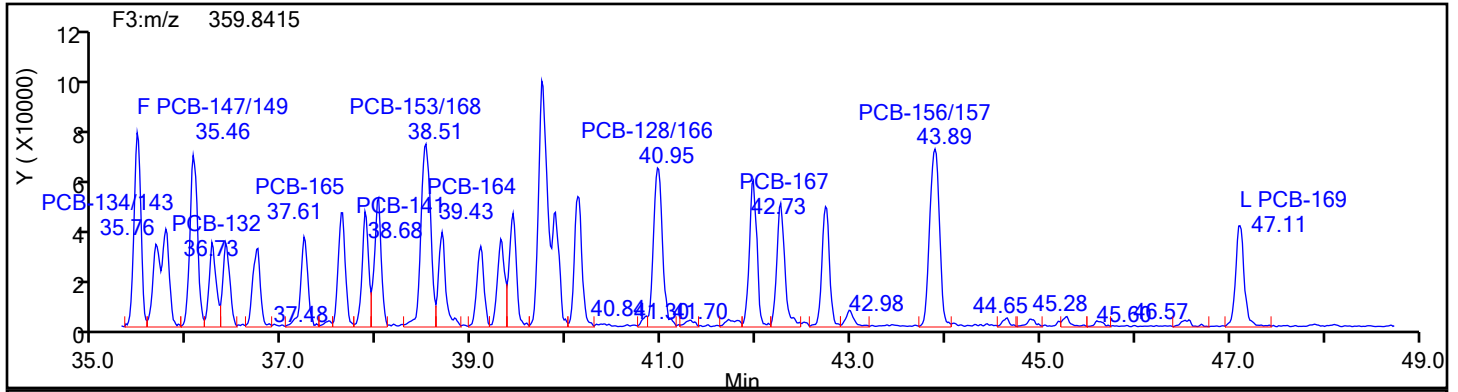
Worklist#: 87130

Sample Line#: 3

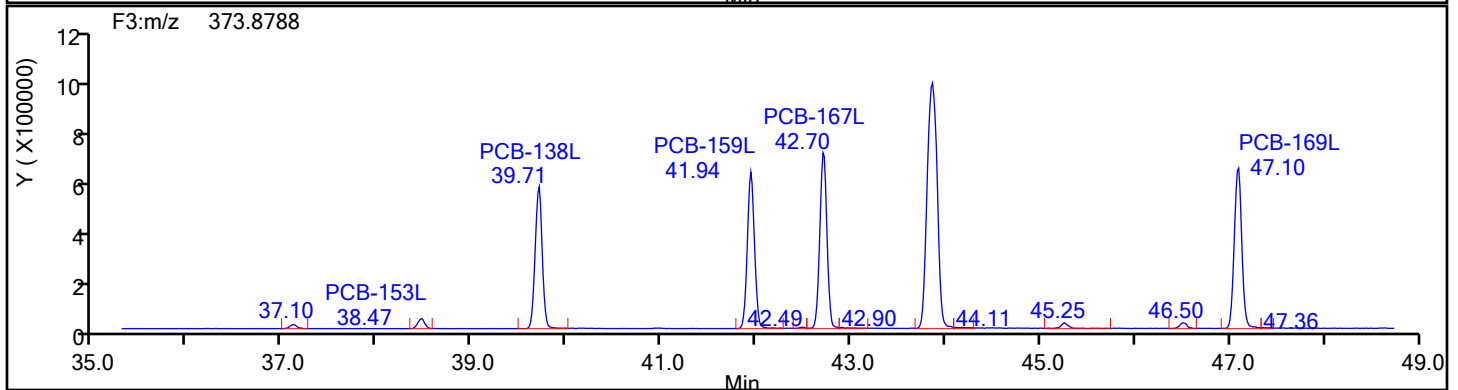
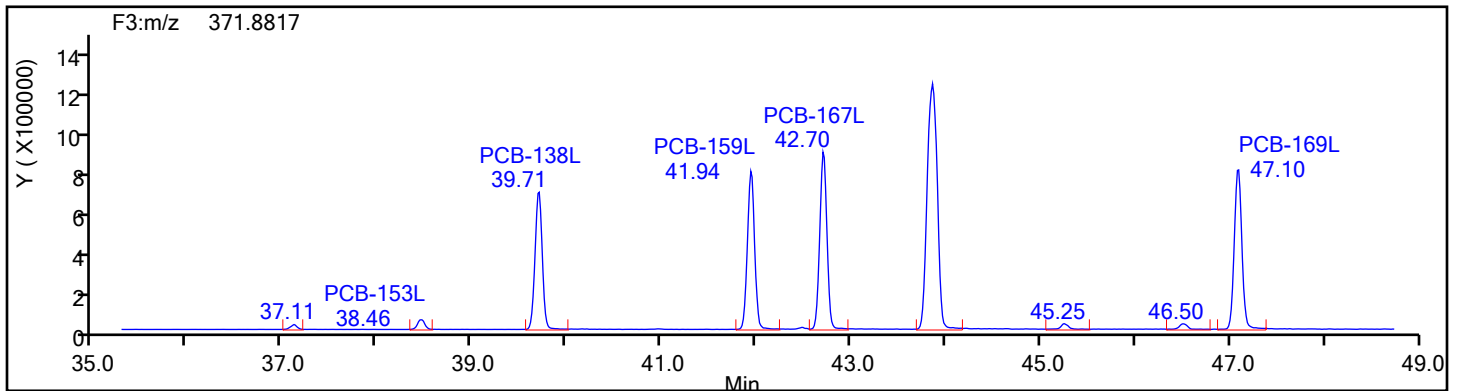
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

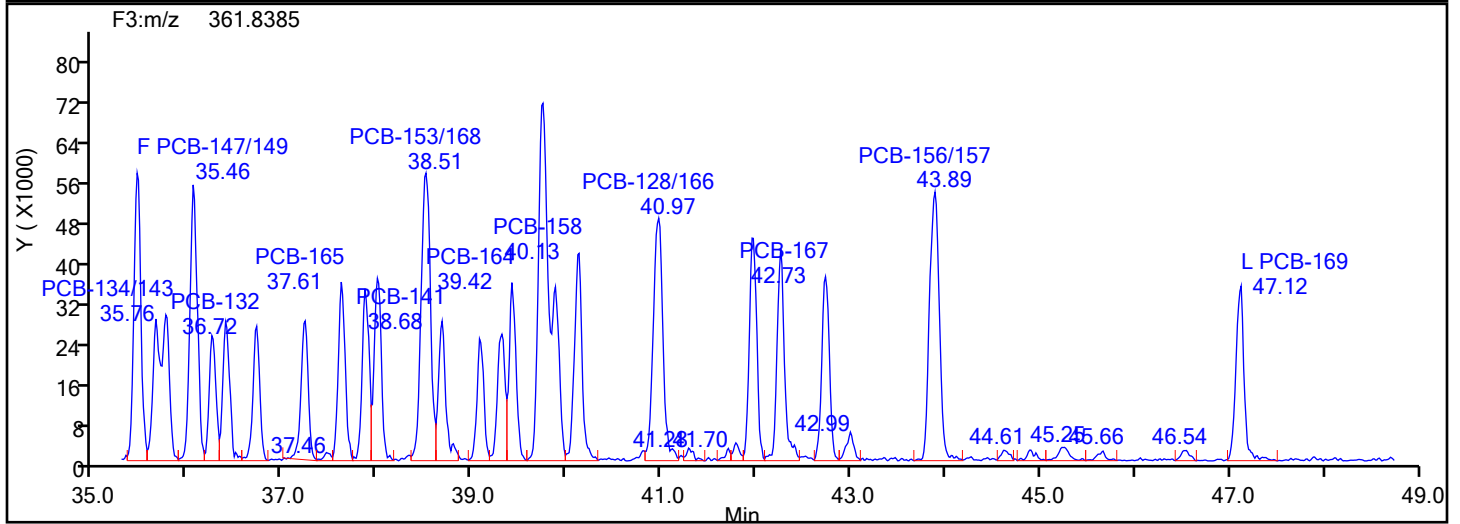
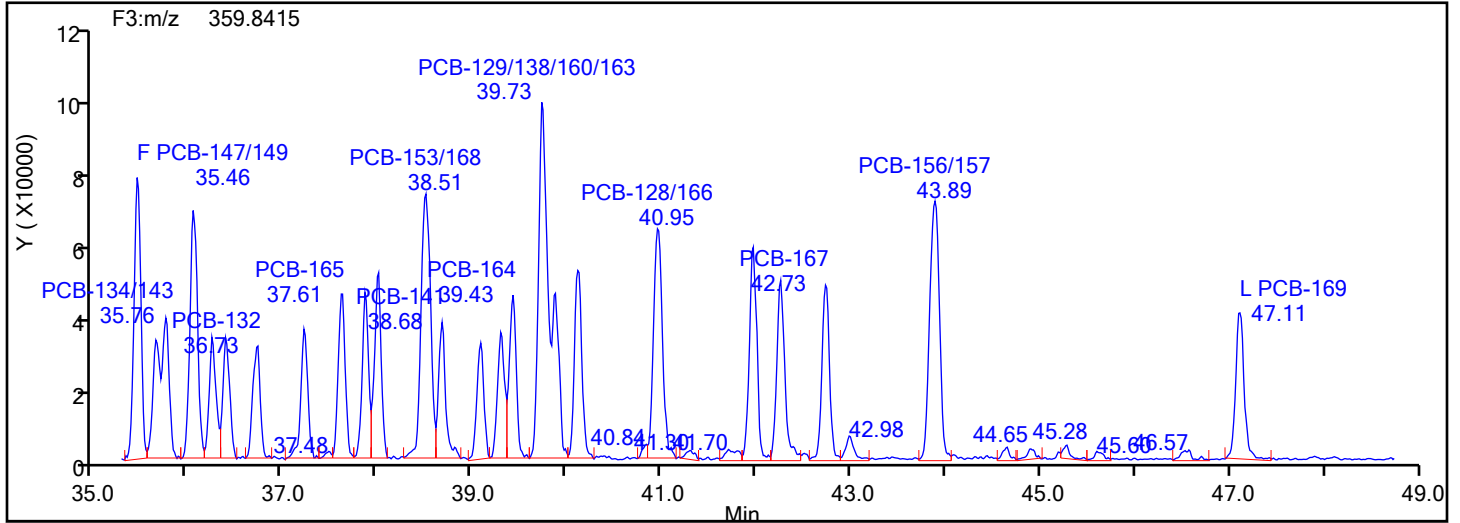
Worklist#: 87130

Sample Line#: 3

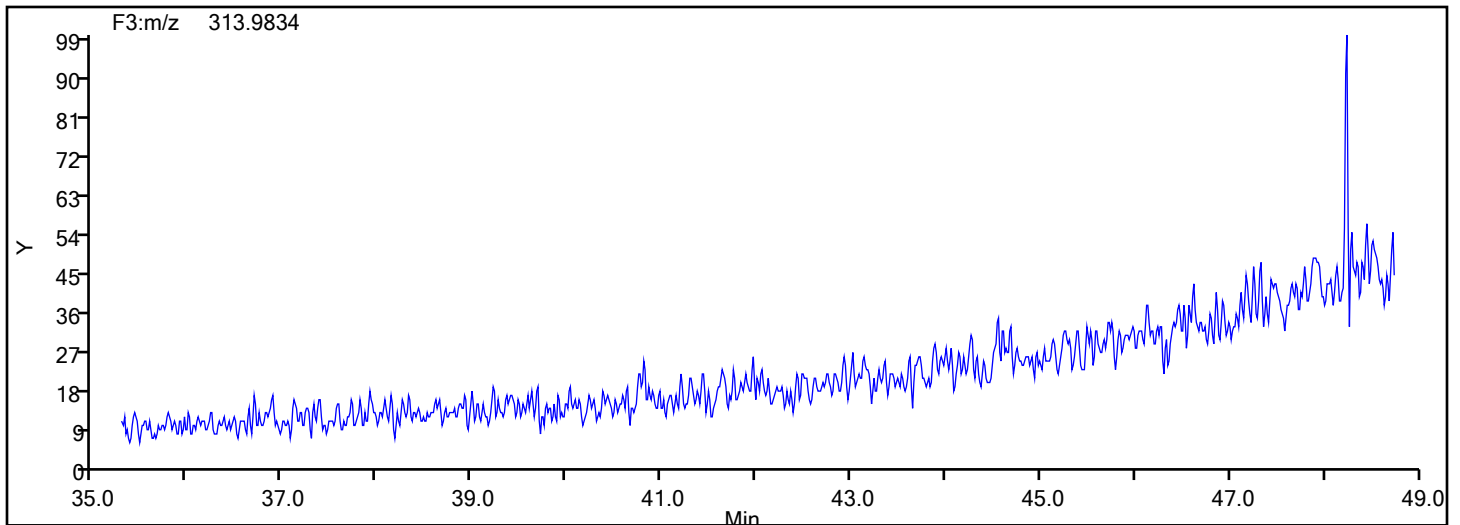
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

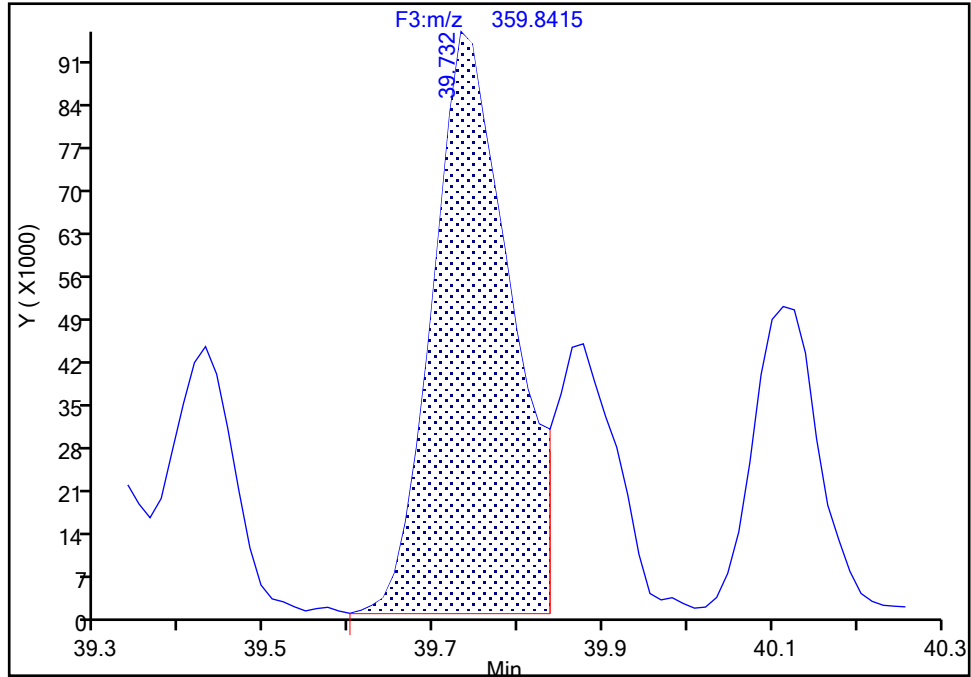
Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

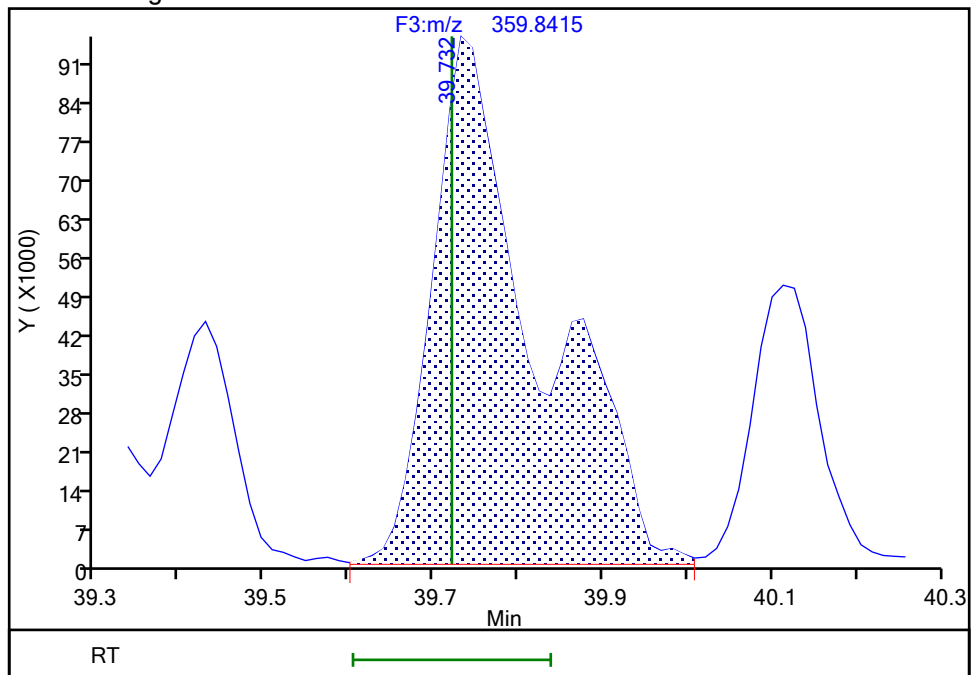
RT: 39.73
Area: 605540
Amount: 17.339974
Amount Units: pg/ul

Processing Integration Results



RT: 39.73
Area: 820981
Amount: 19.465175
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:50:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

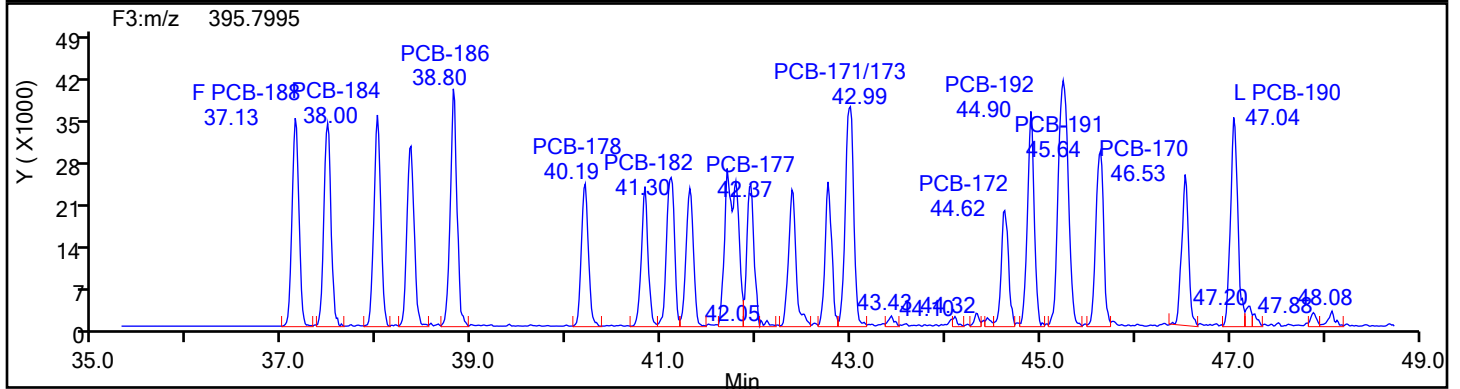
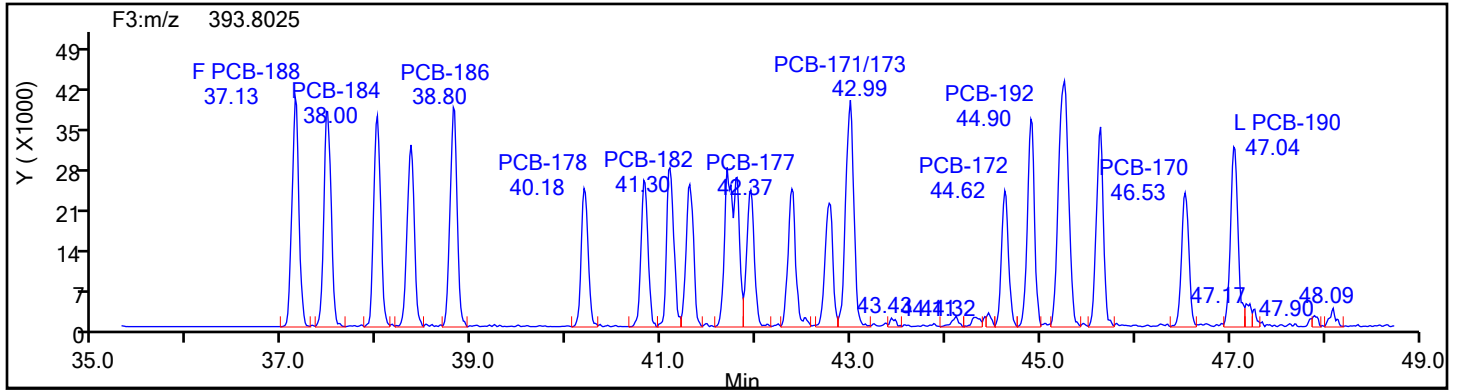
Worklist#: 87130

Sample Line#: 3

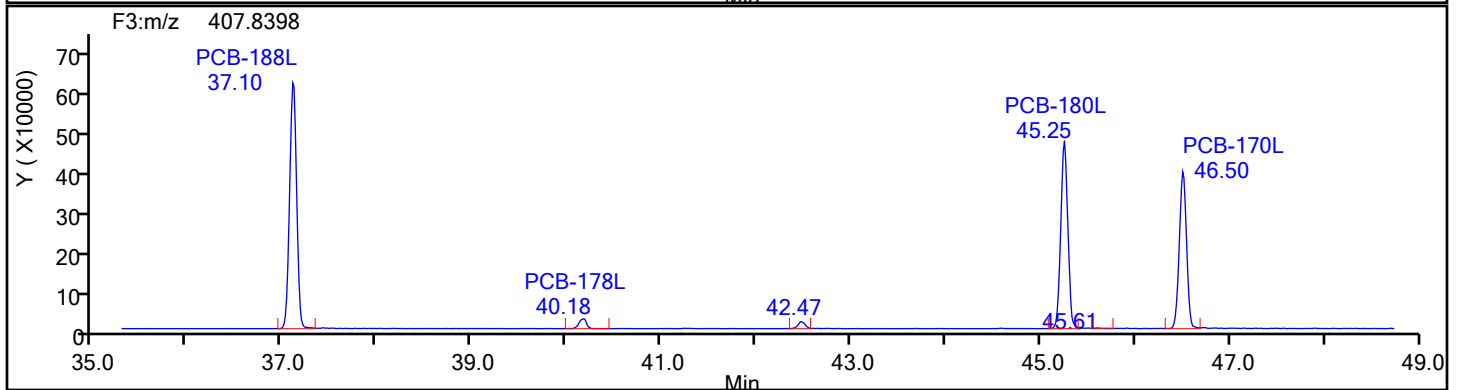
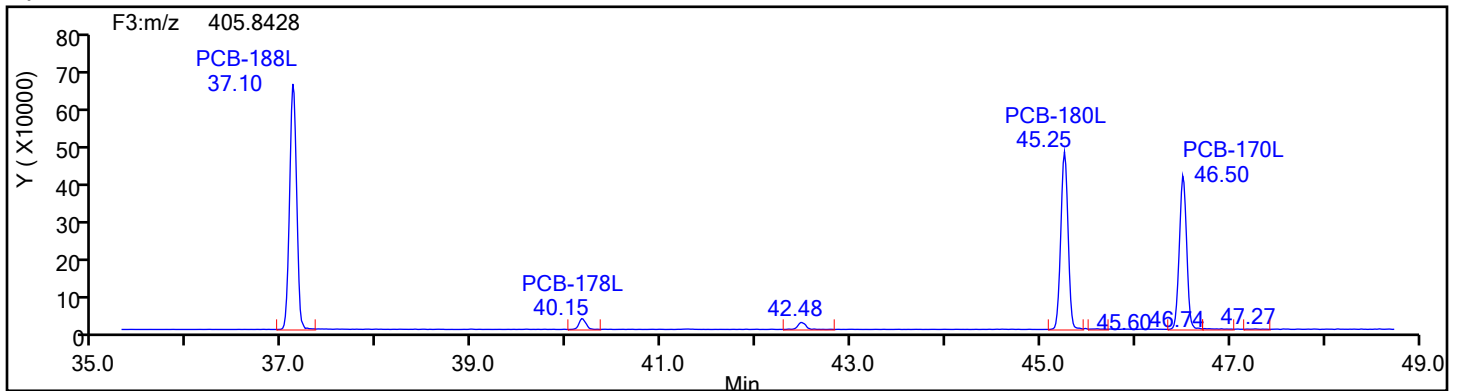
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

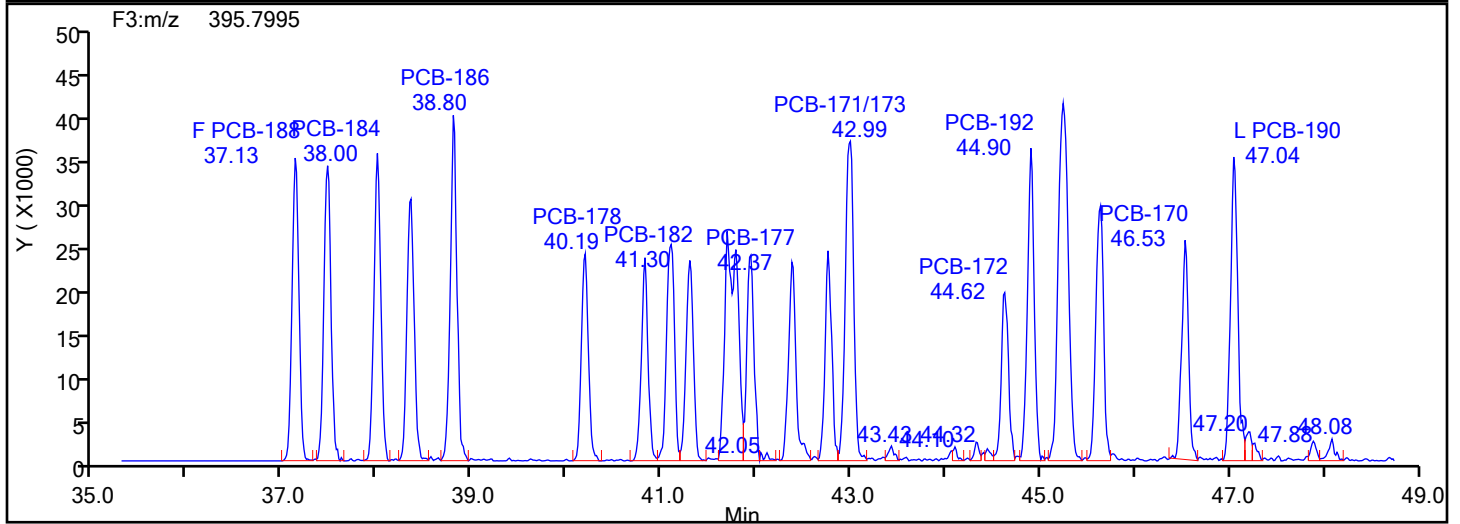
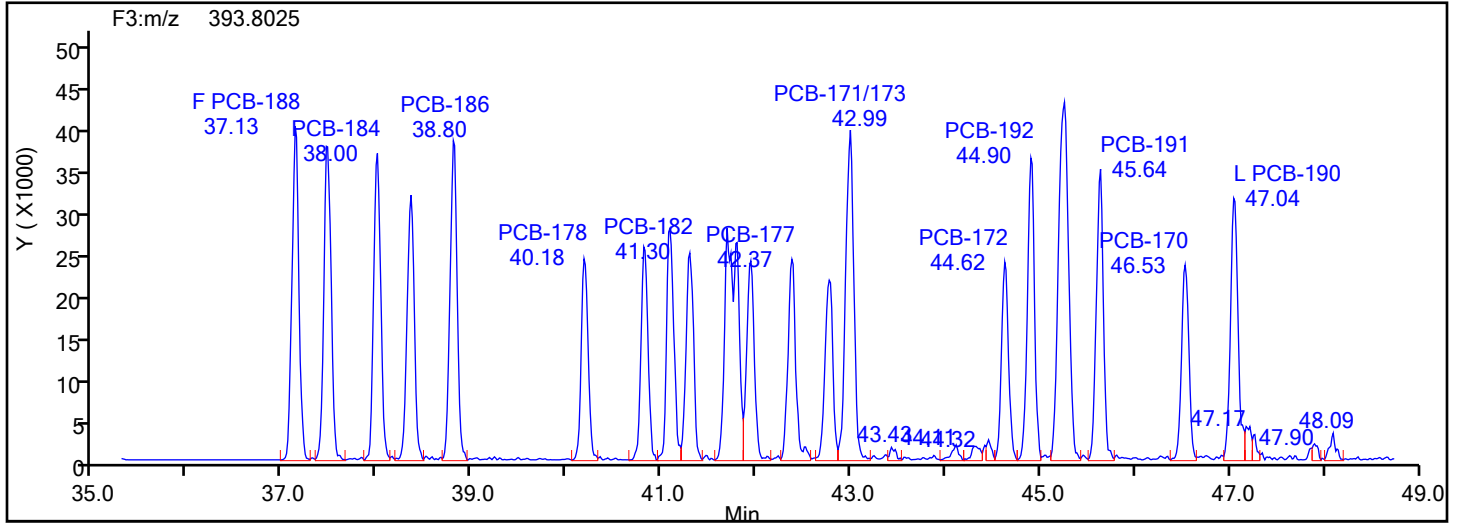
Worklist#: 87130

Sample Line#: 3

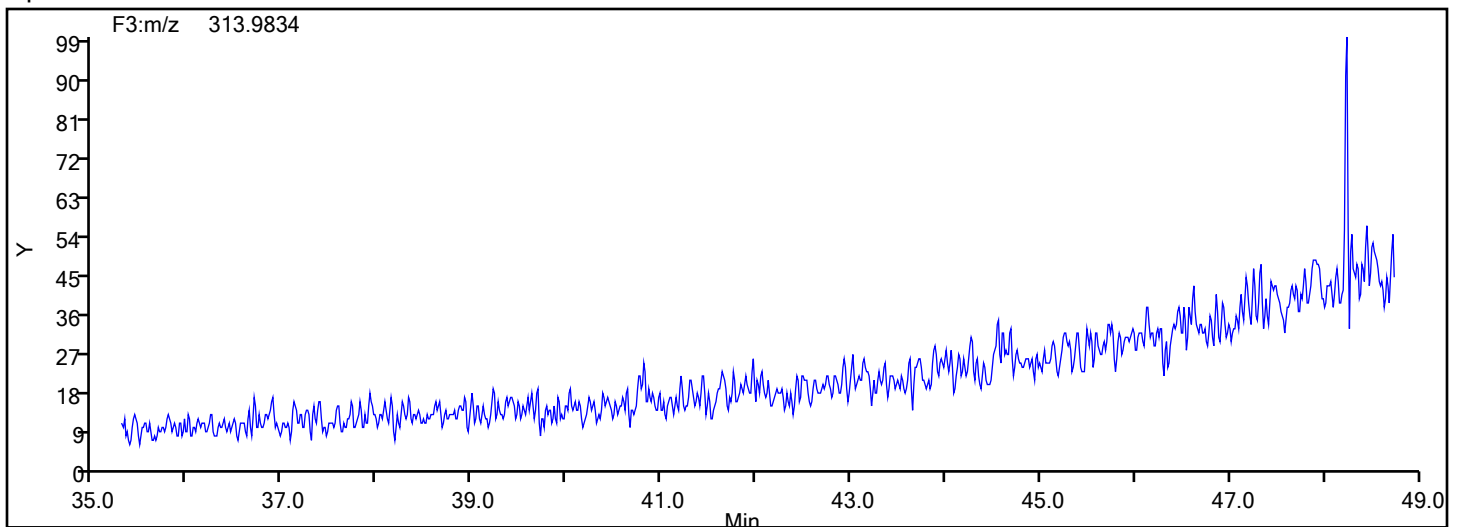
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

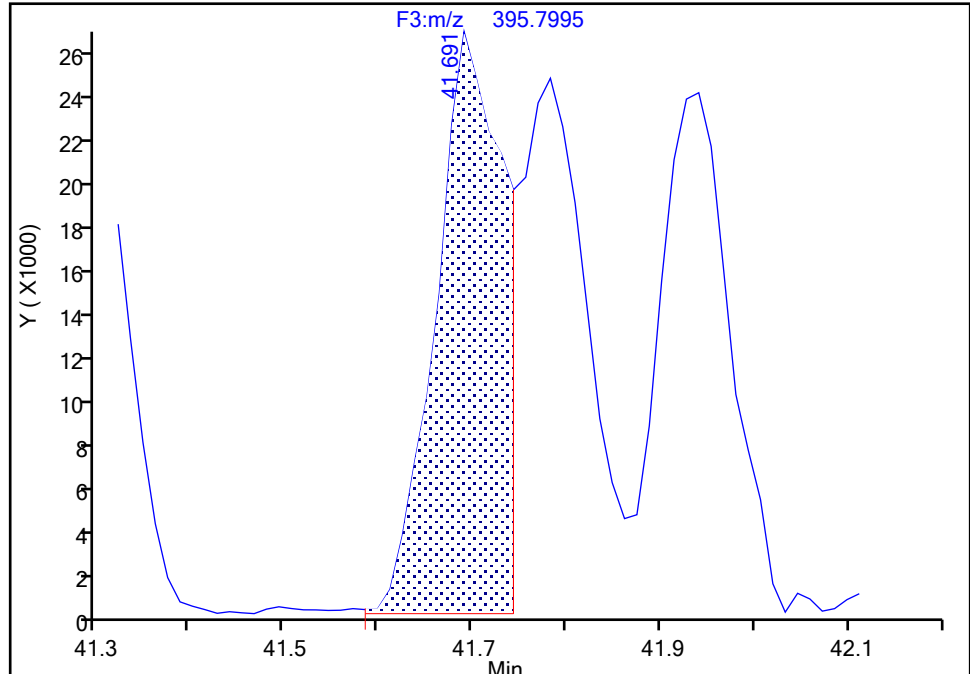
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

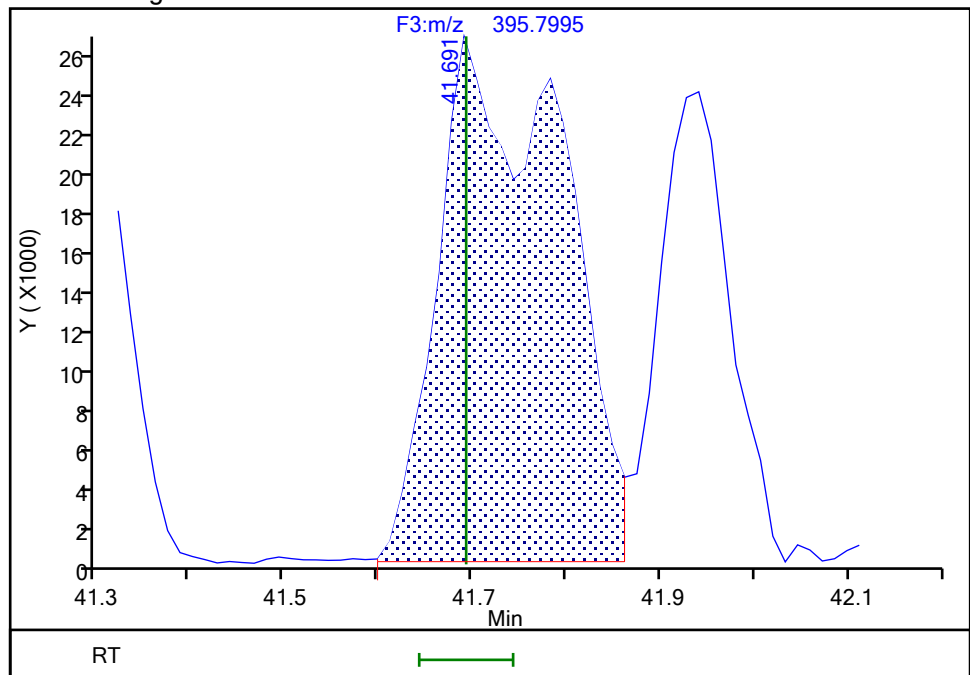
RT: 41.69
Area: 127948
Amount: 7.395438
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 244261
Amount: 9.336683
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:50:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

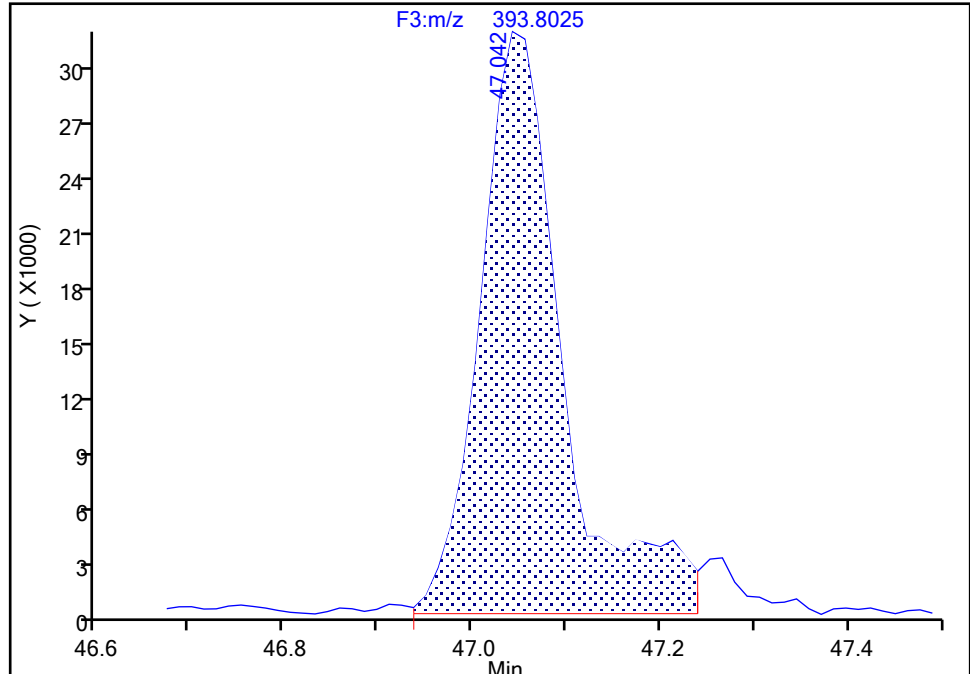
F3(35.64 :49.10)

PCB-190, CAS: 41411-64-7

Signal: 1

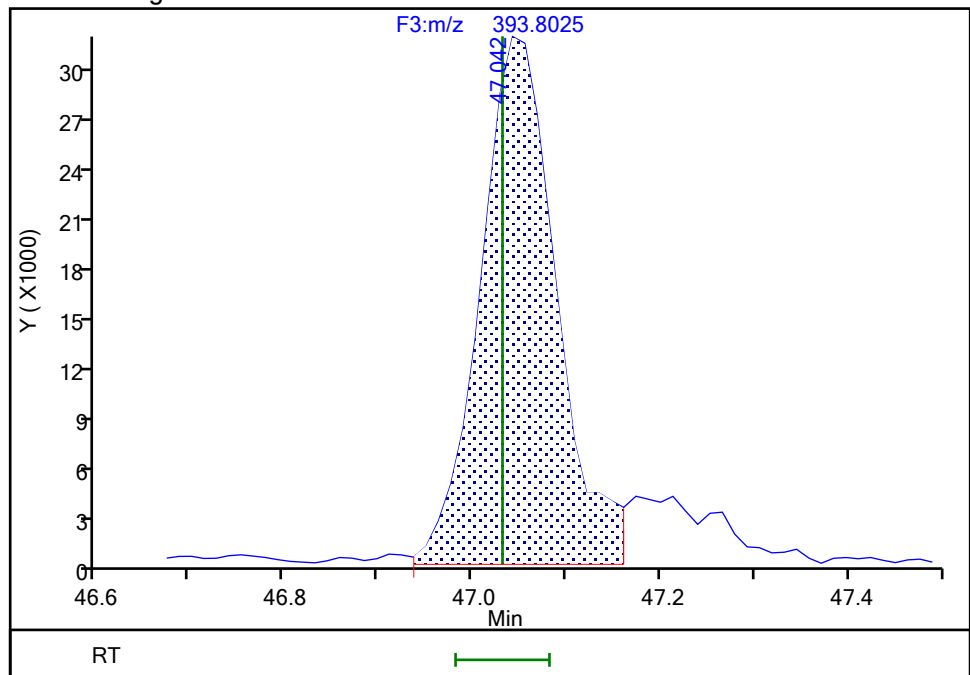
RT: 47.04
Area: 192417
Amount: 5.044239
Amount Units: pg/ul

Processing Integration Results



RT: 47.04
Area: 175590
Amount: 4.967529
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

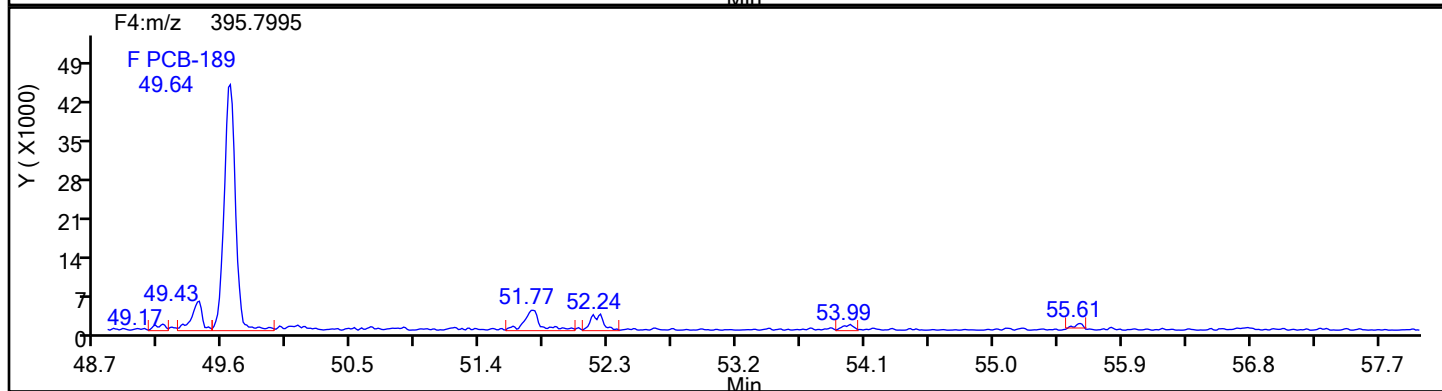
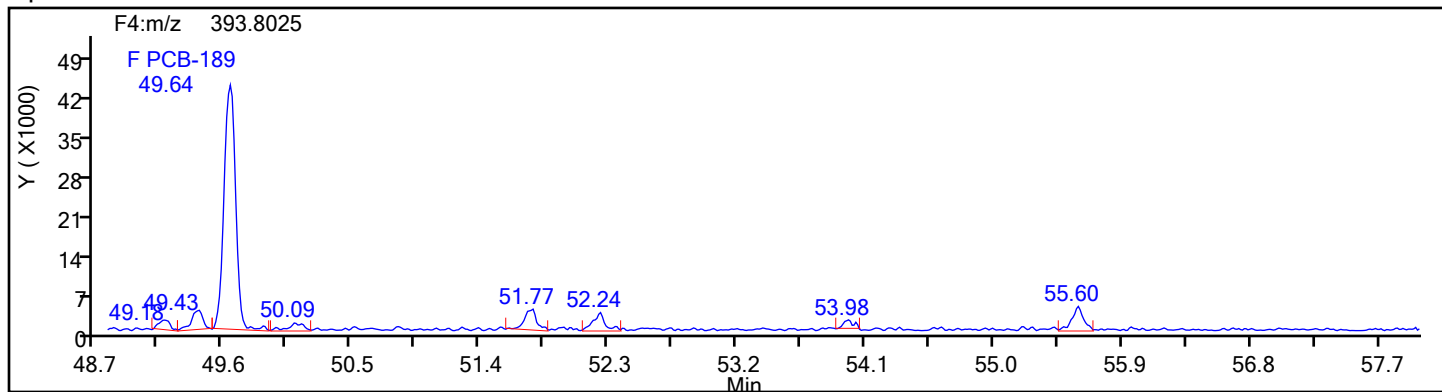
Worklist#: 87130

Sample Line#: 3

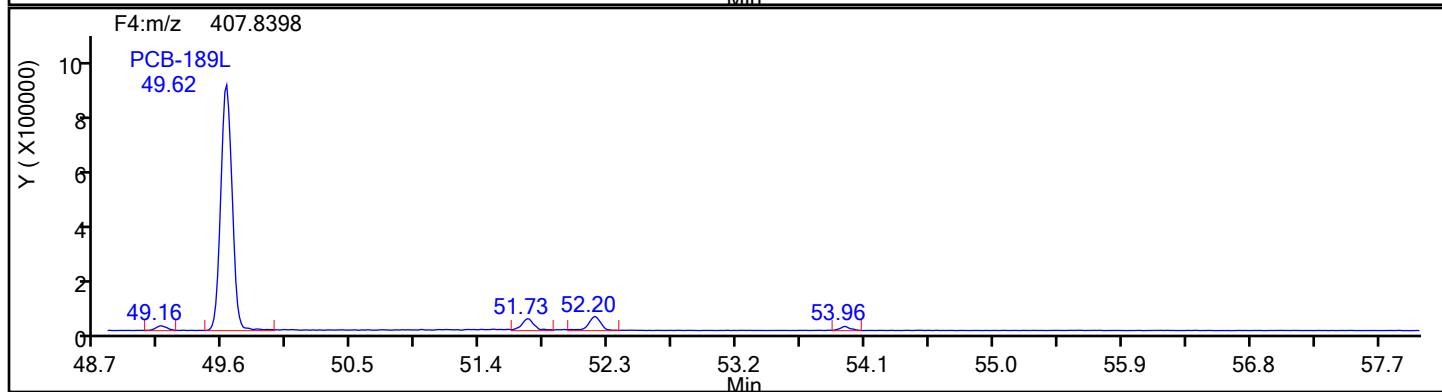
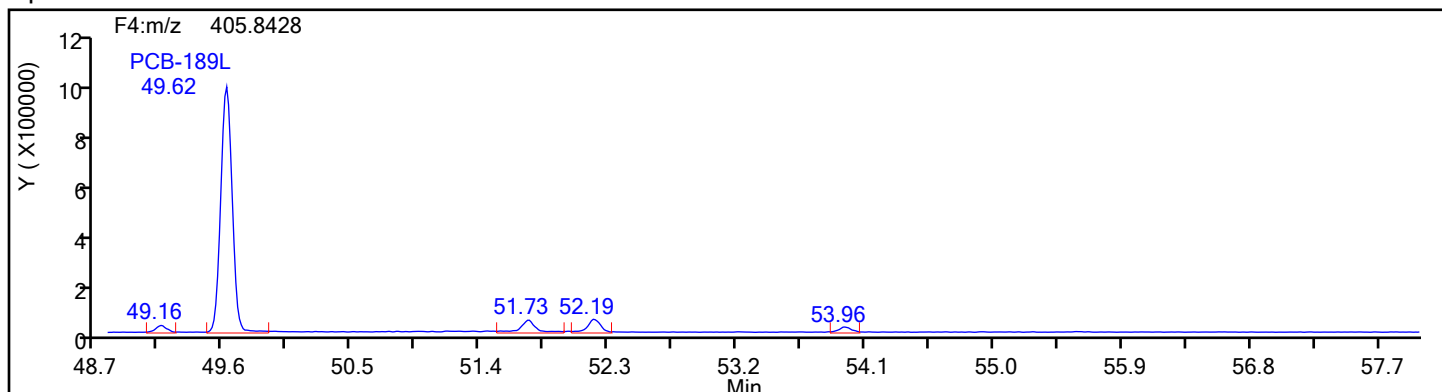
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

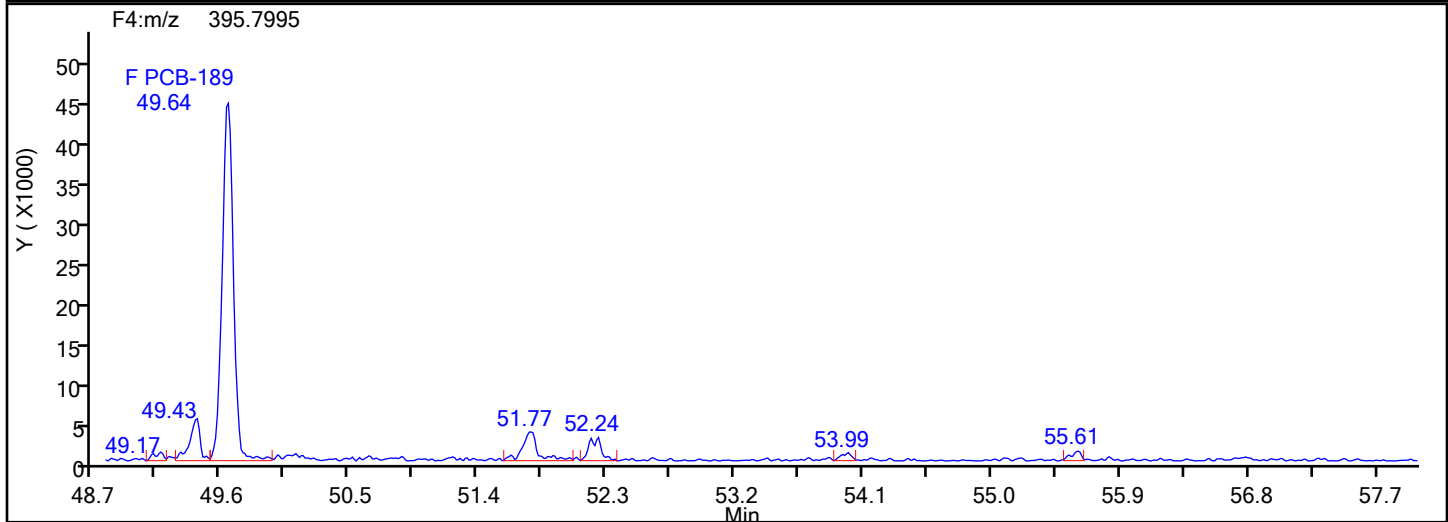
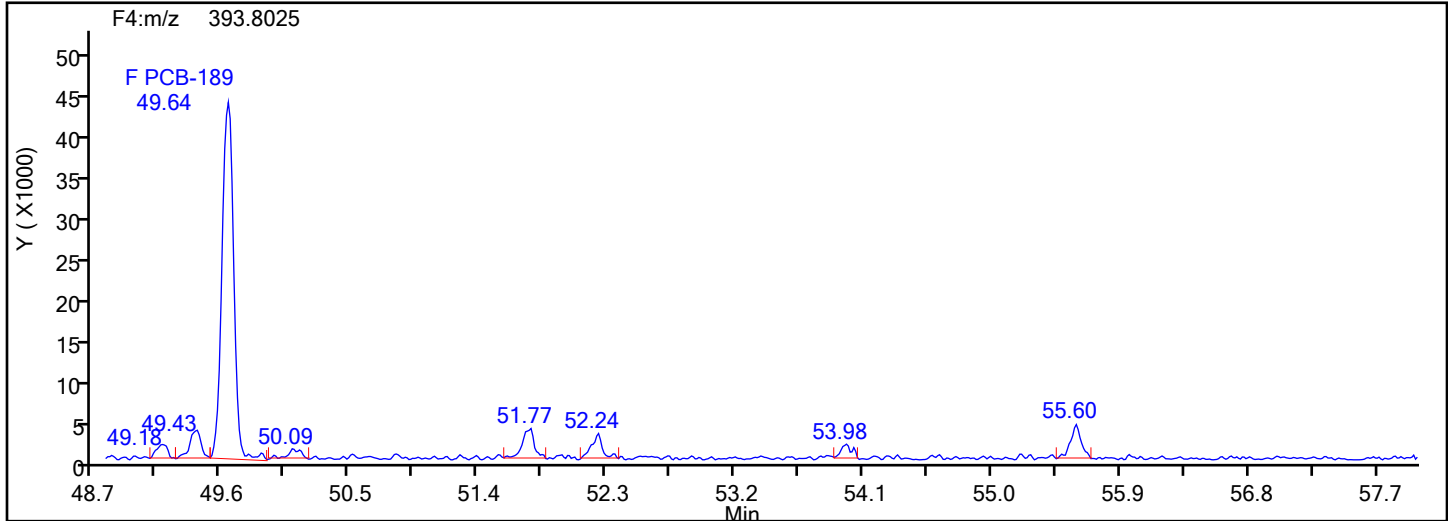
Worklist#: 87130

Sample Line#: 3

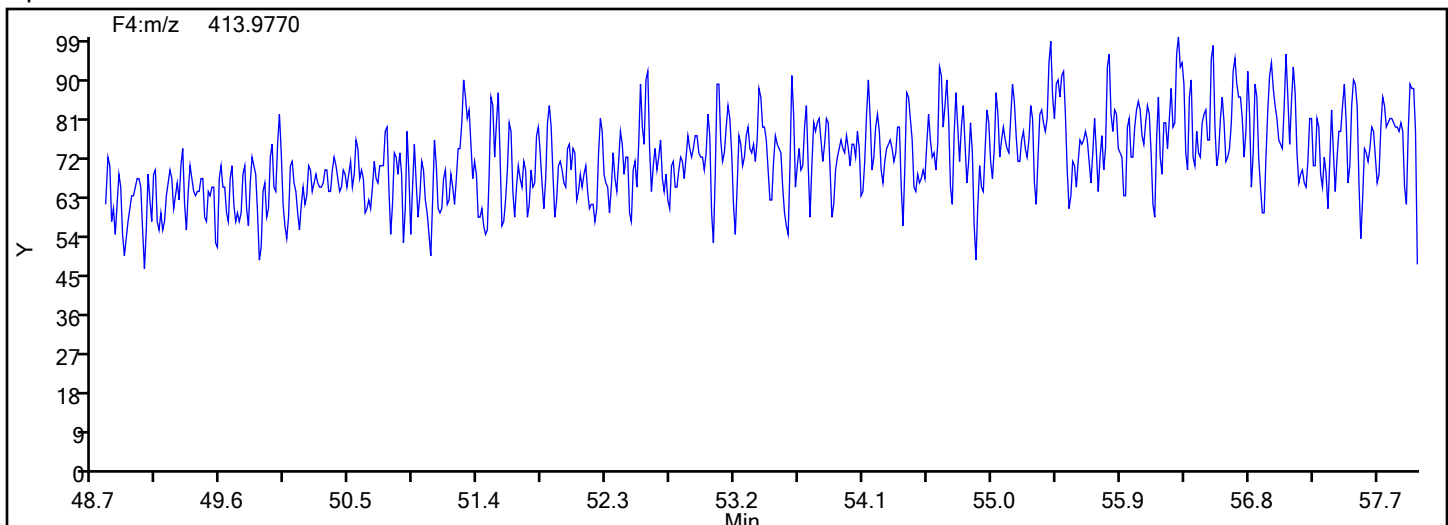
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

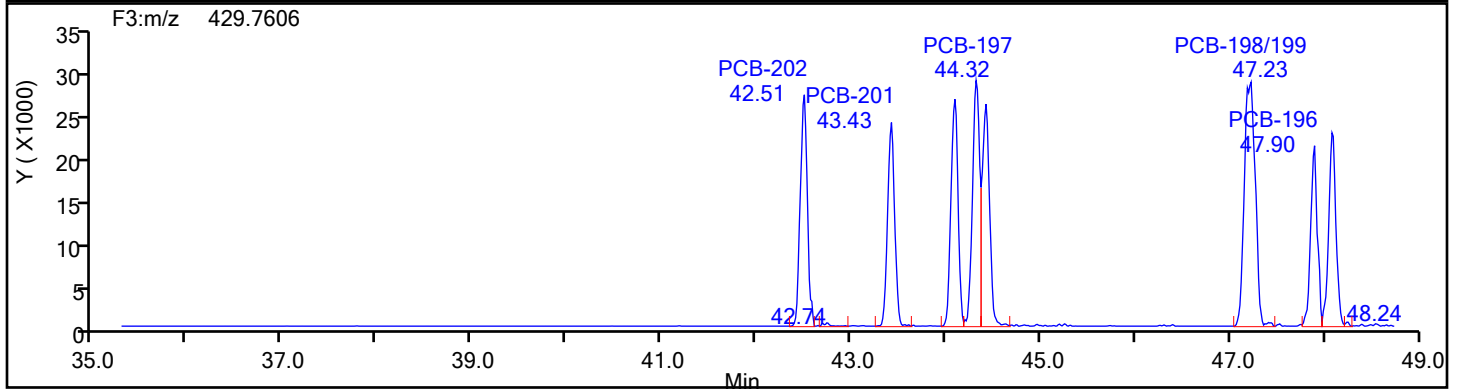
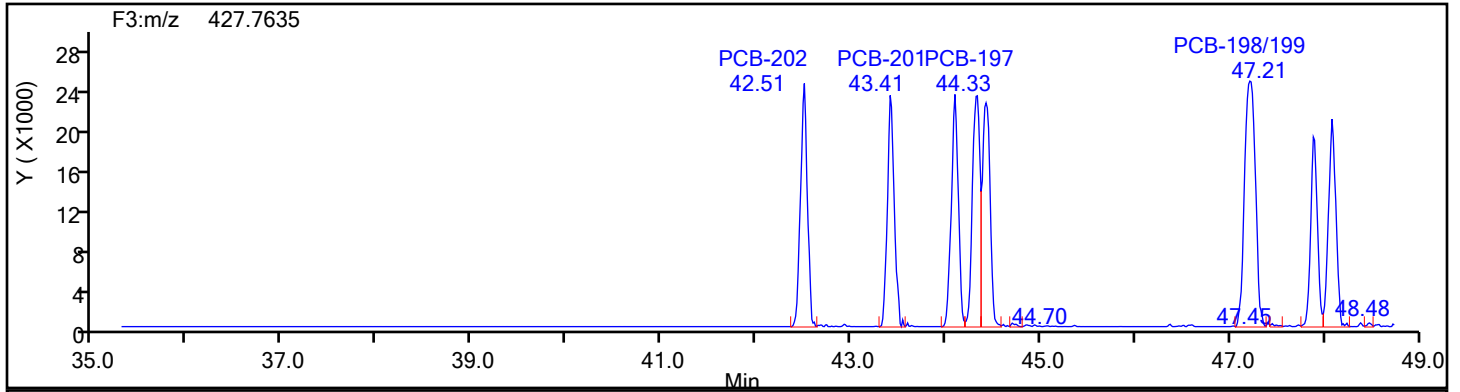
Worklist#: 87130

Sample Line#: 3

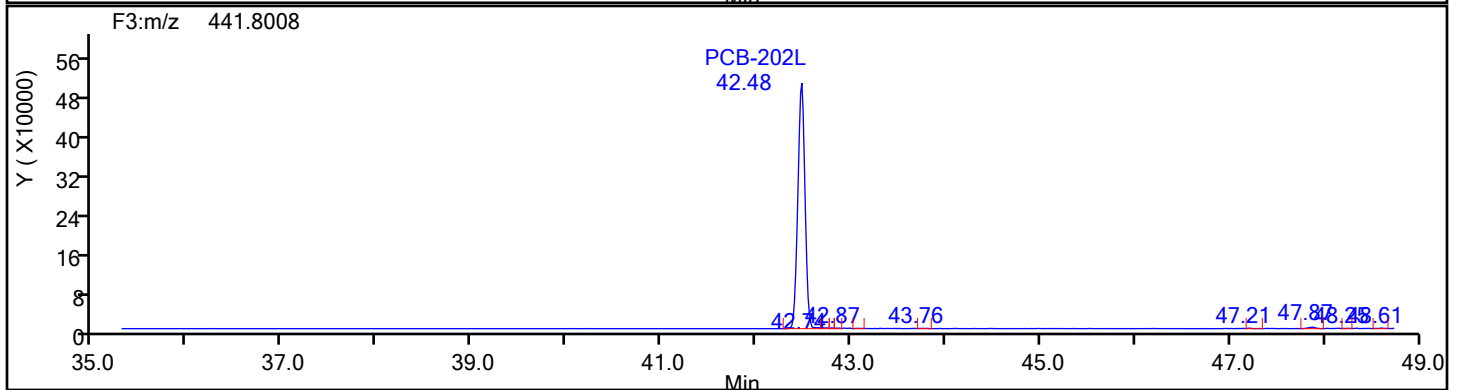
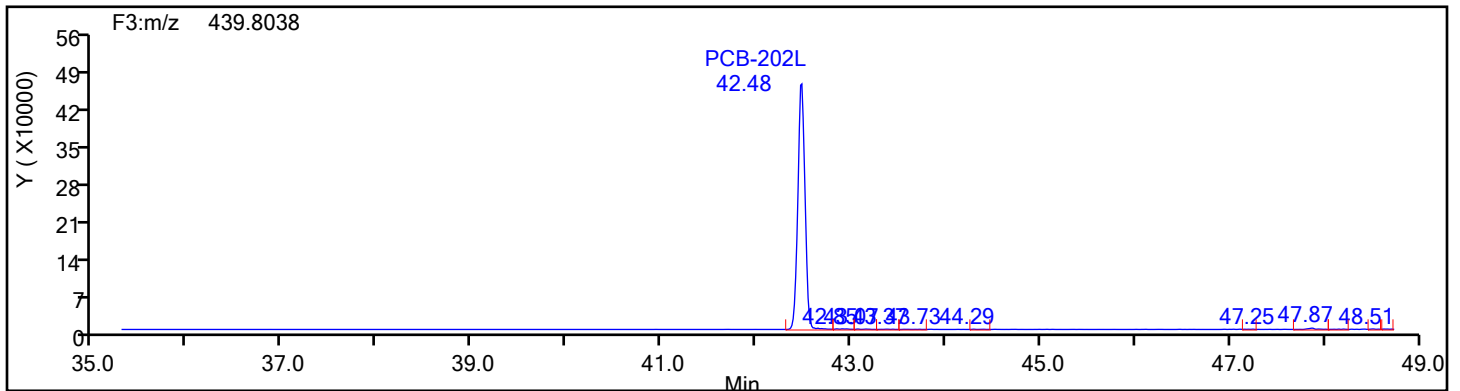
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

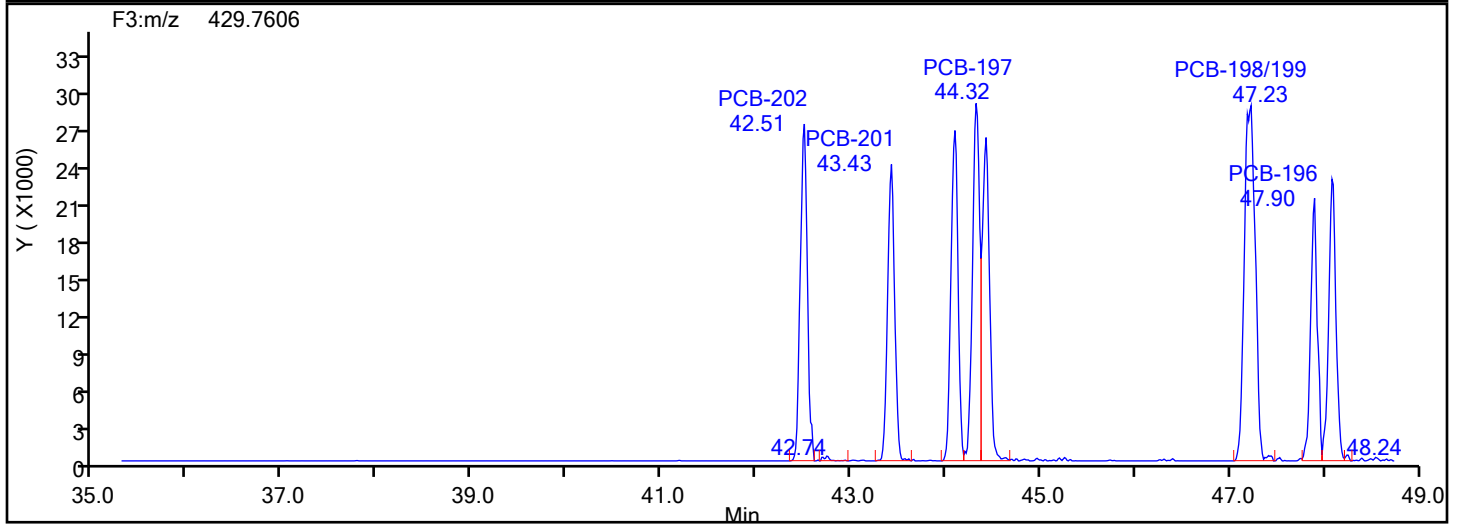
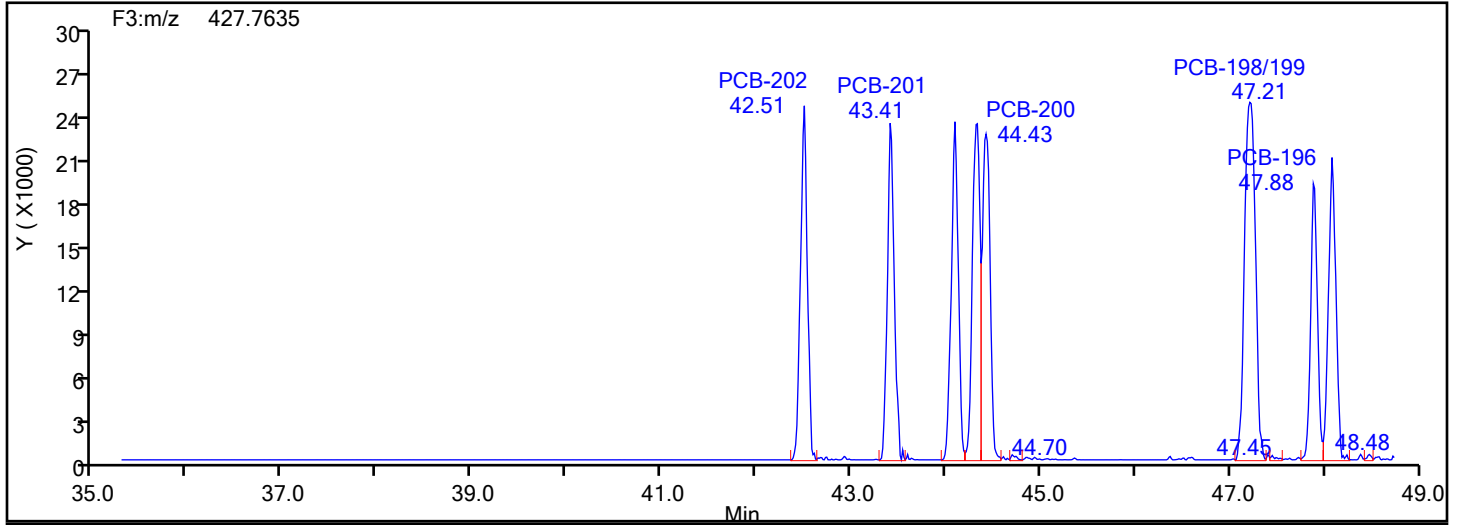
Worklist#: 87130

Sample Line#: 3

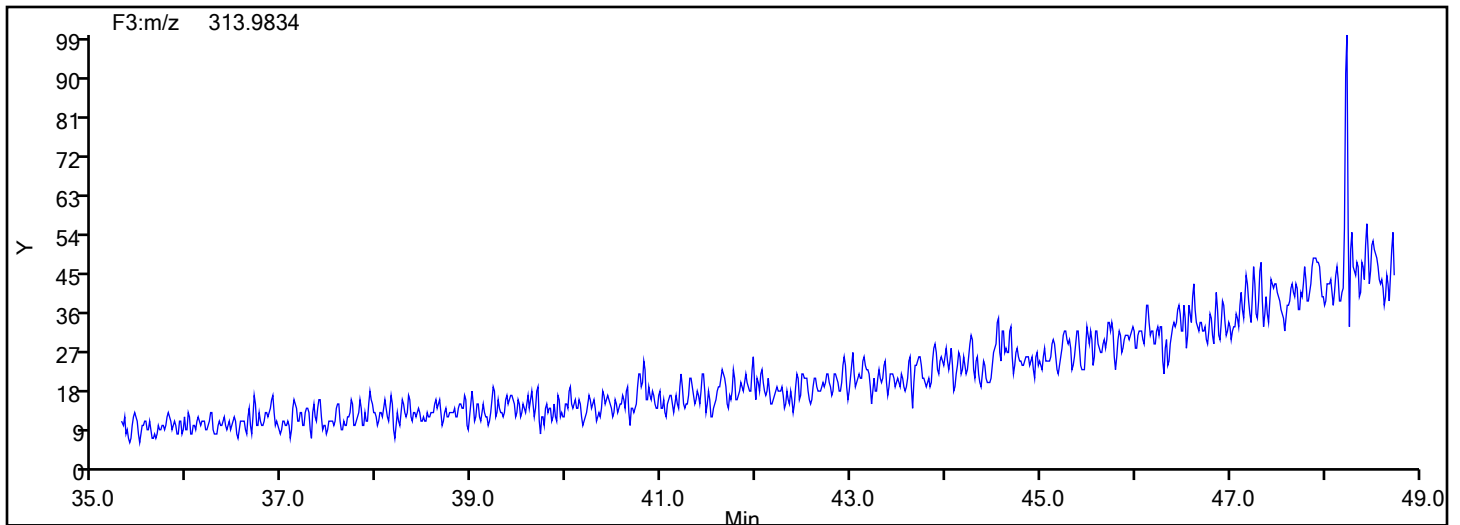
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

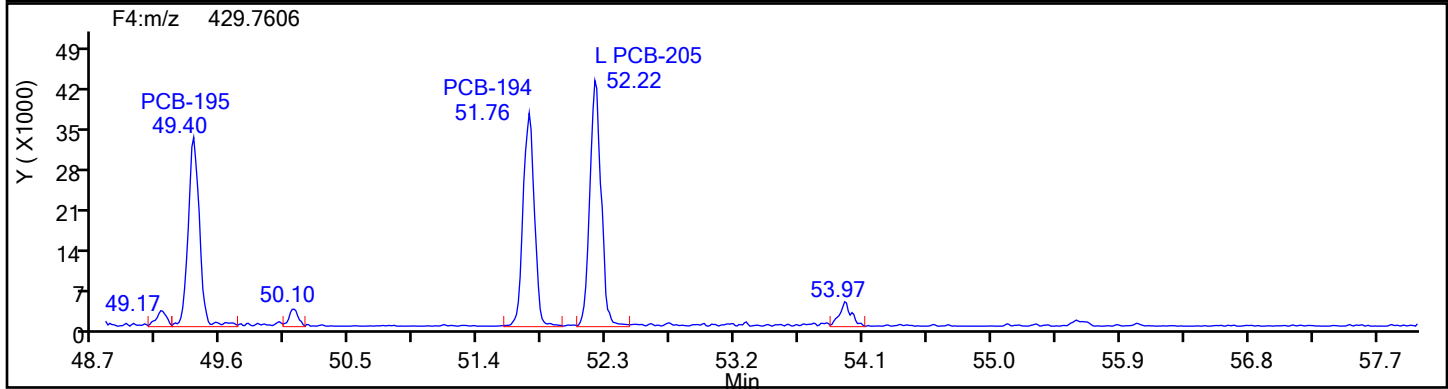
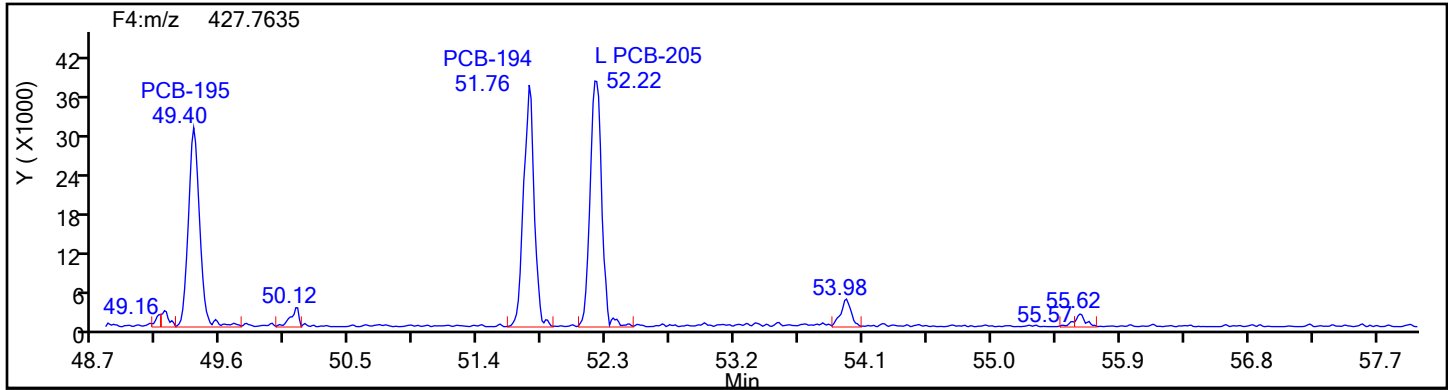
Worklist#: 87130

Sample Line#: 3

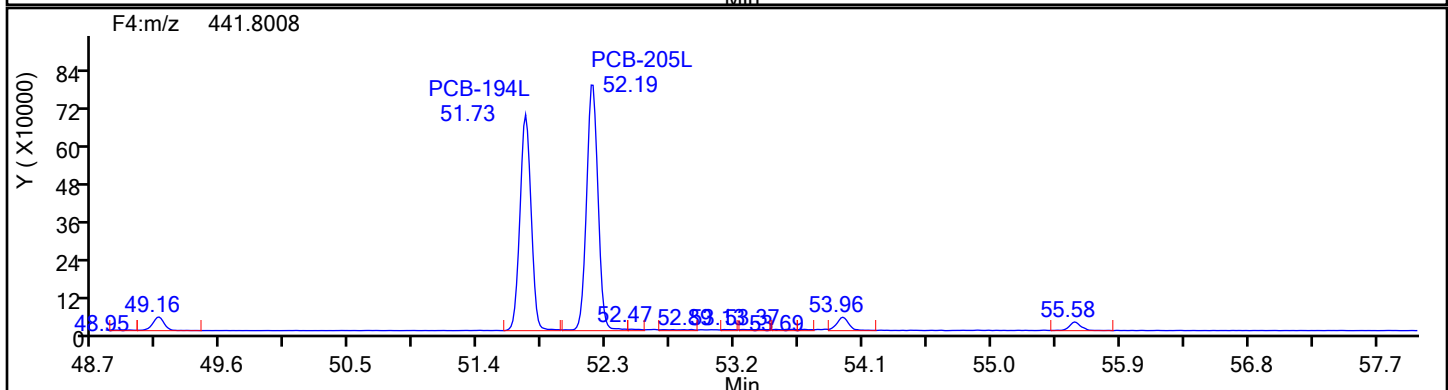
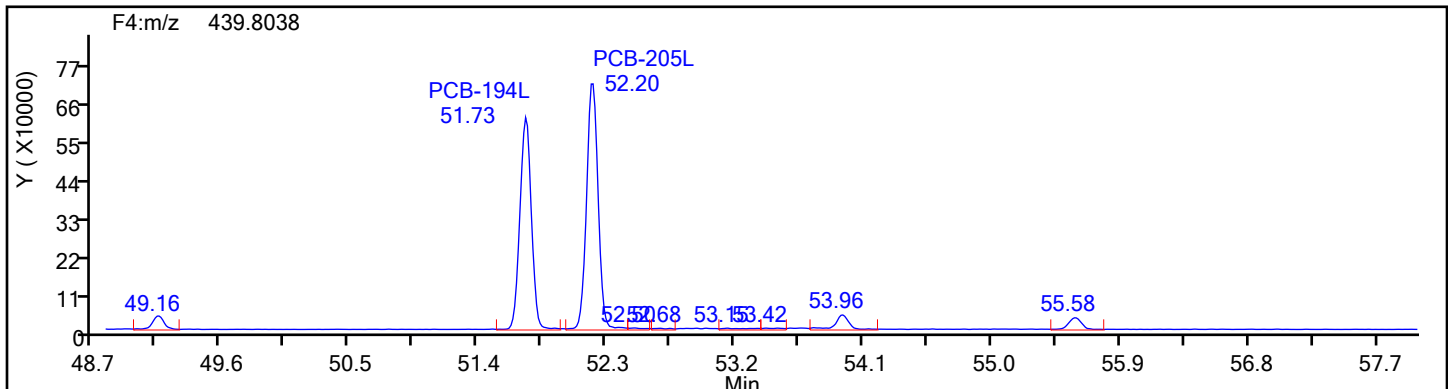
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

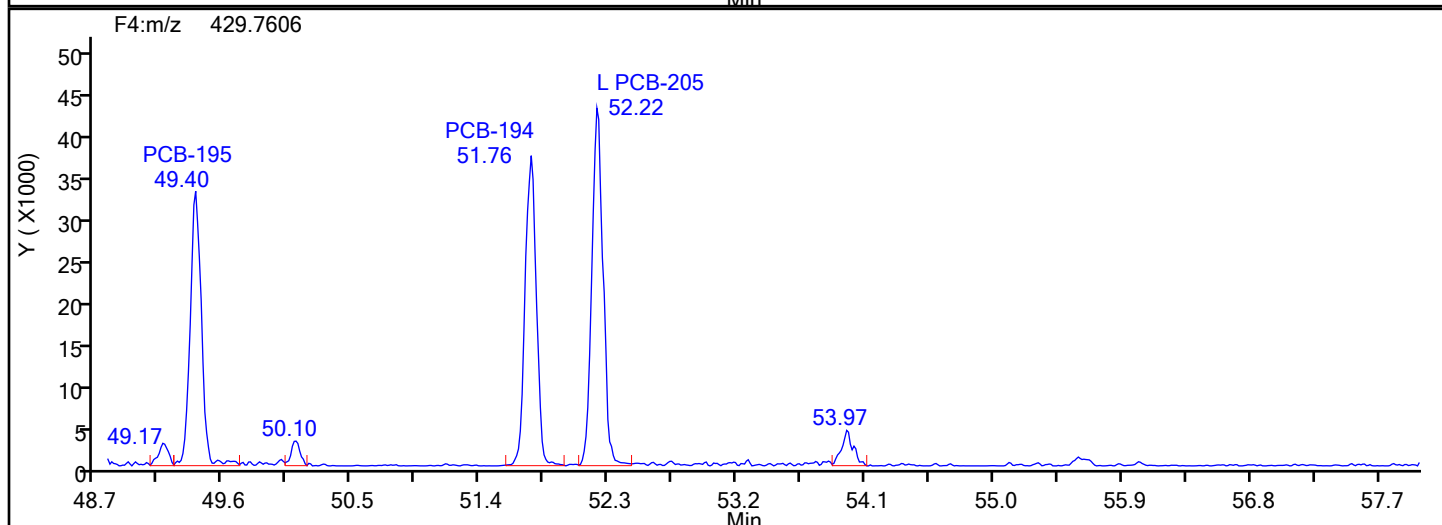
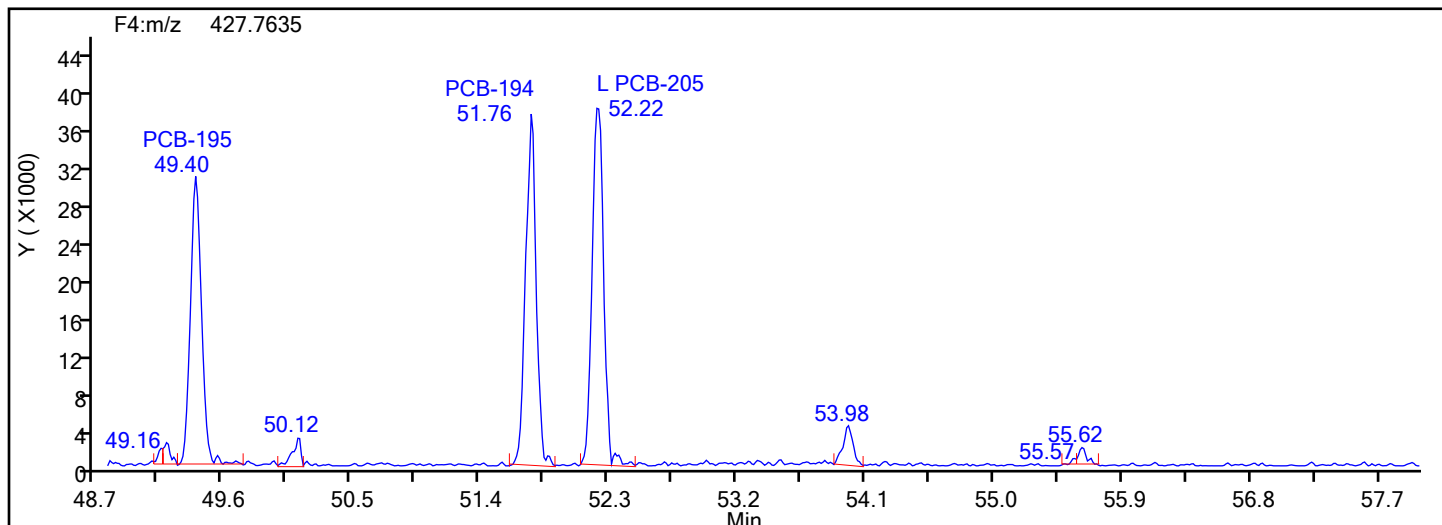
Worklist#: 87130

Sample Line#: 3

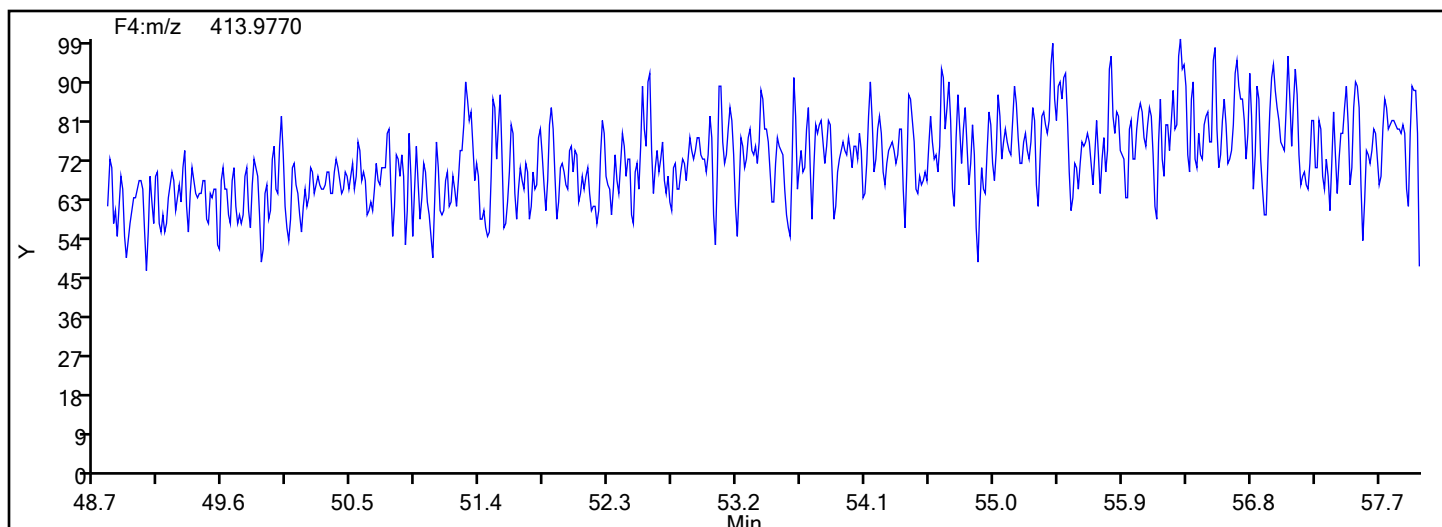
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

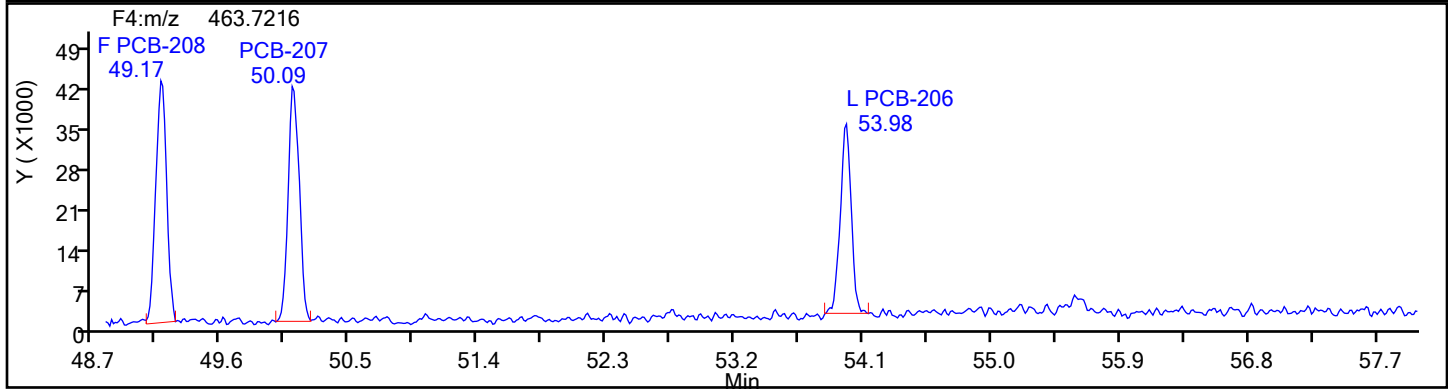
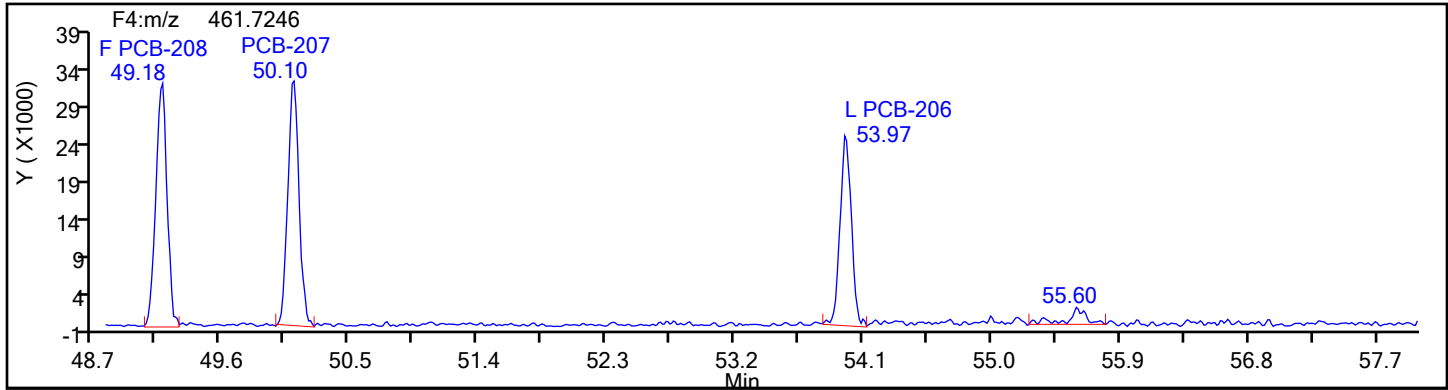


OcPCB F4 Lock Mass

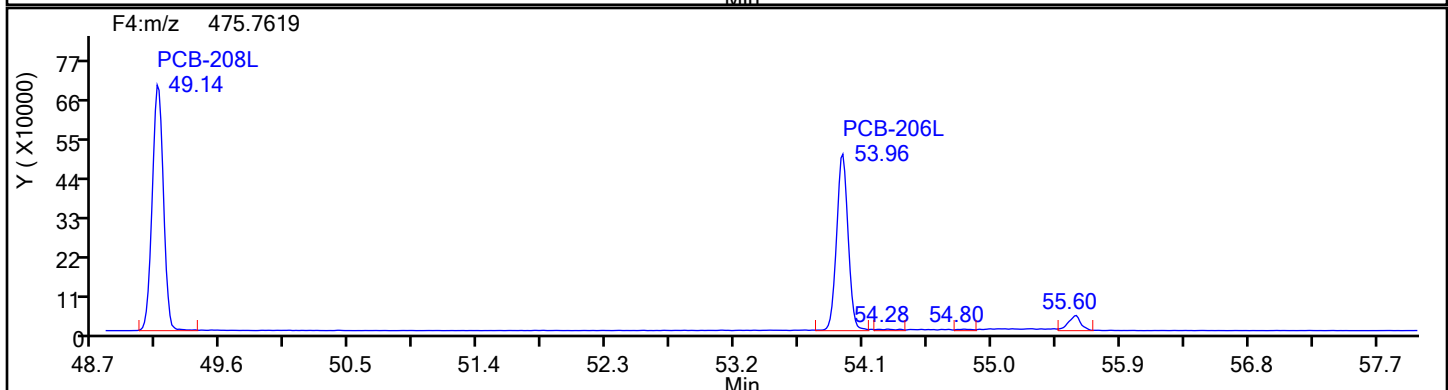
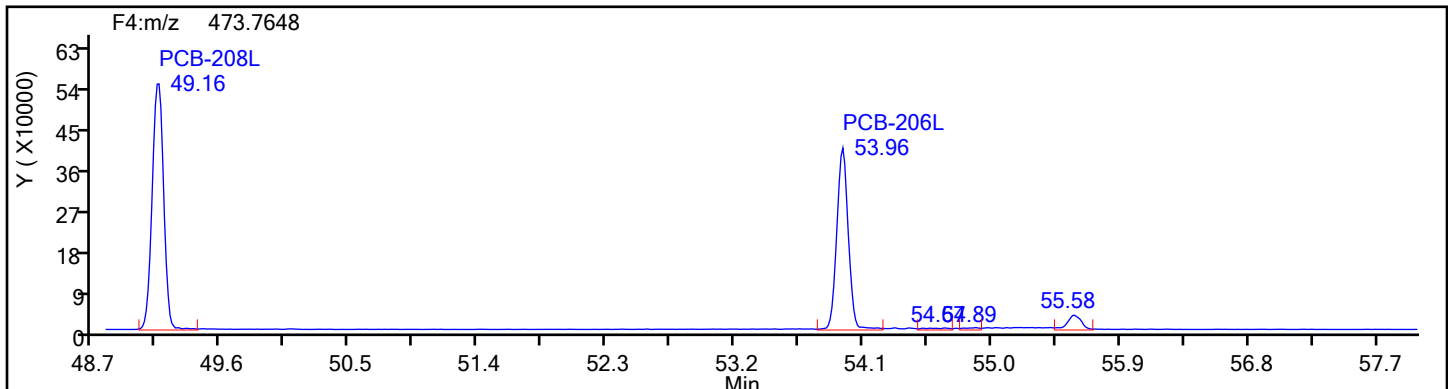


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 3
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

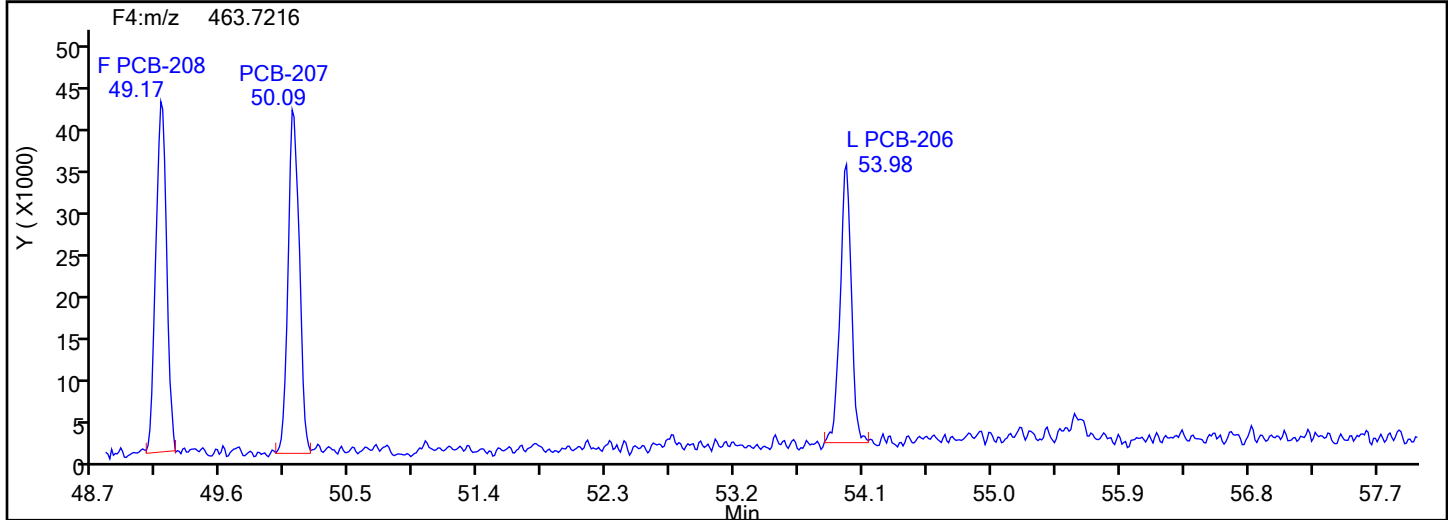
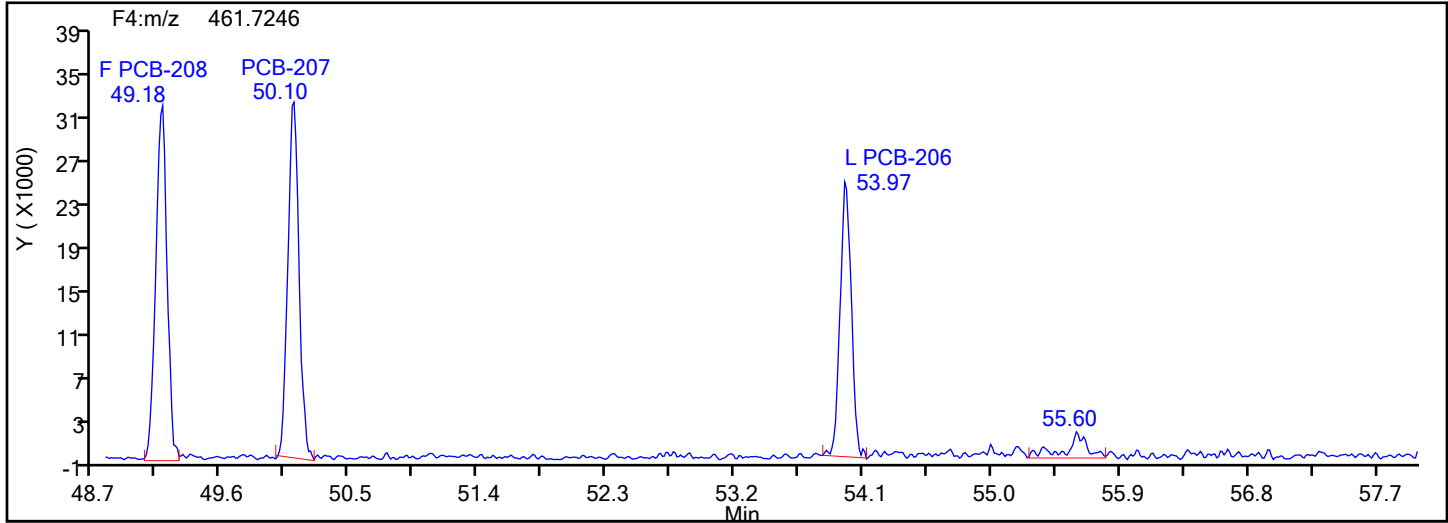


NoPCB F4 Standards

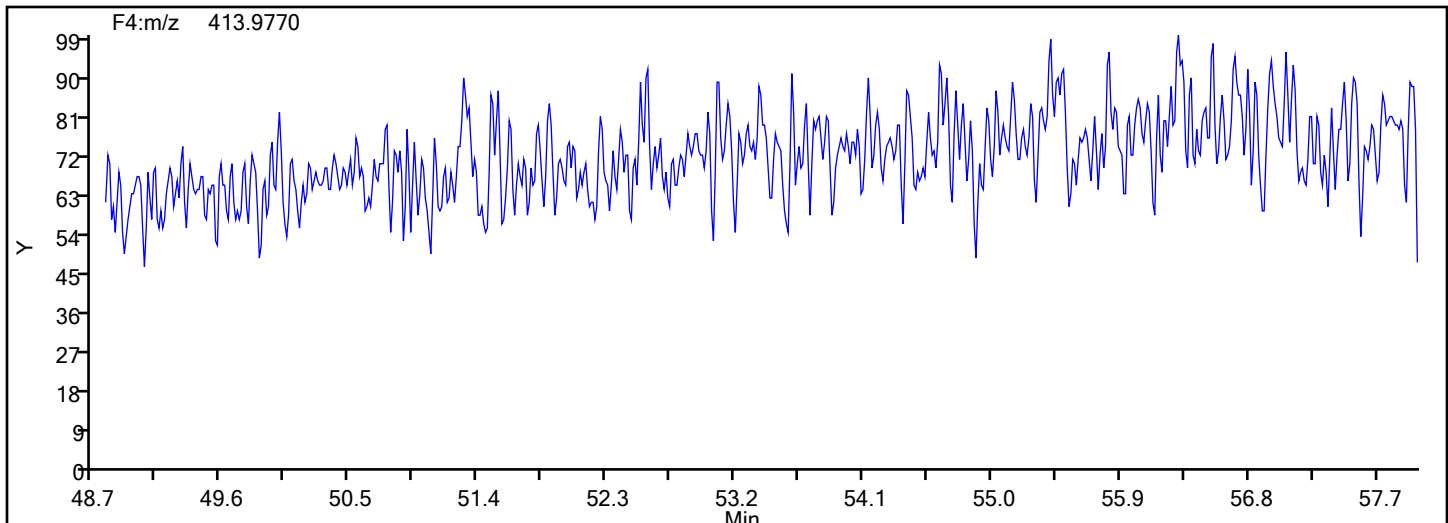


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 3
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

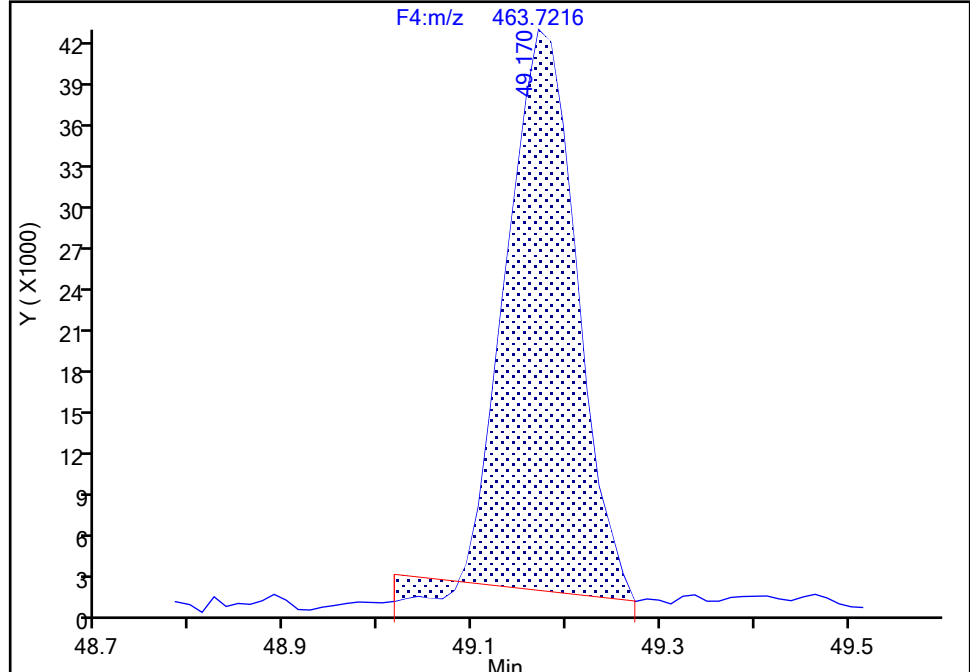
Detector F4(49.20 :57.50)

PCB-208, CAS: 52663-77-1

Signal: 2

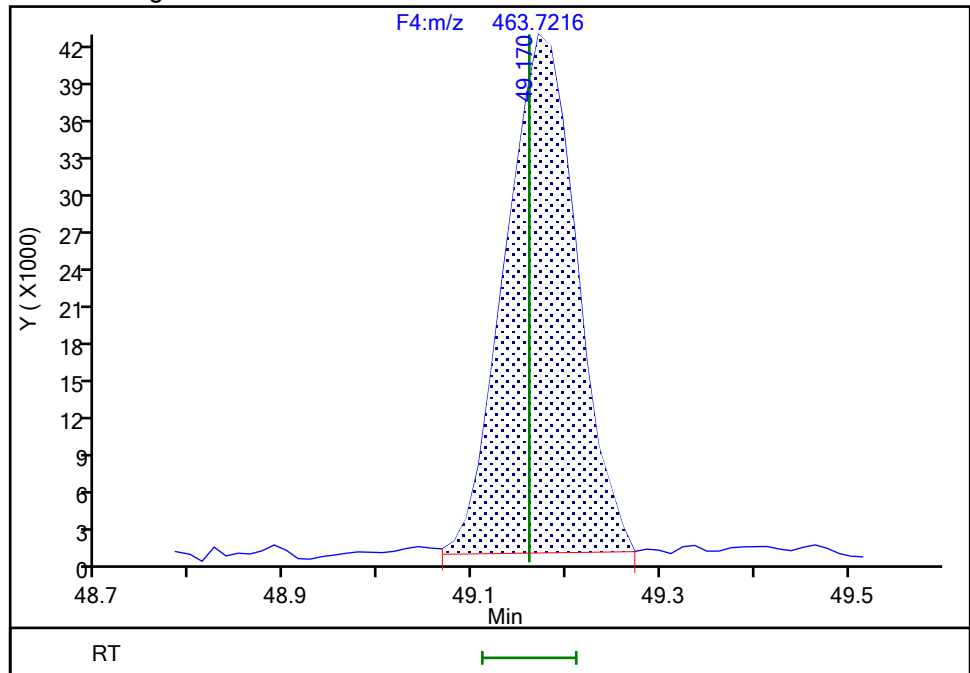
RT: 49.17
Area: 207739
Amount: 5.025504
Amount Units: pg/ul

Processing Integration Results



RT: 49.17
Area: 222670
Amount: 5.121125
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

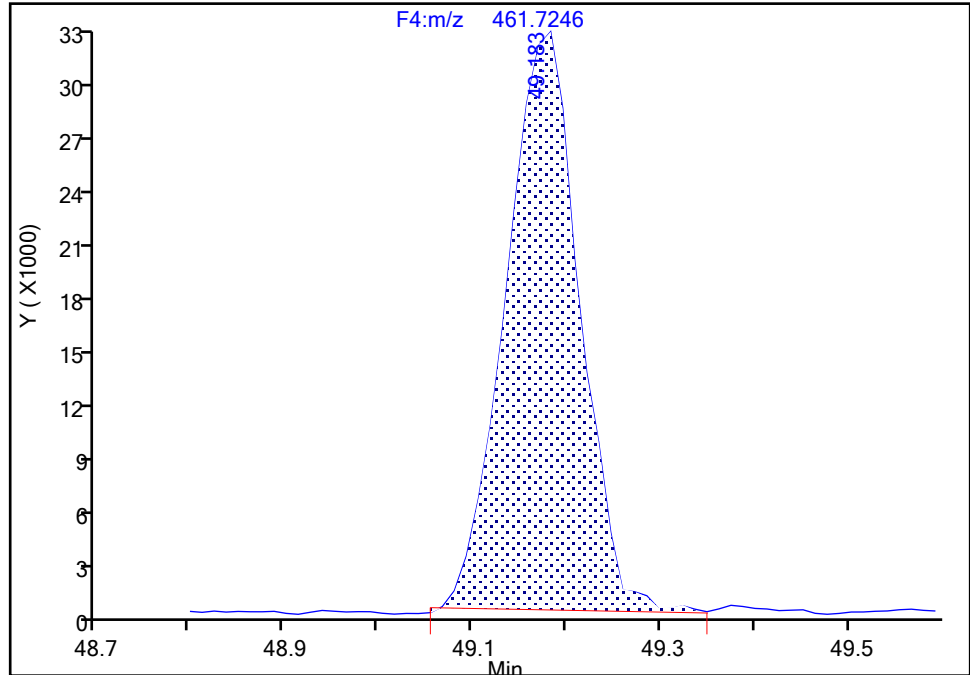
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-208, CAS: 52663-77-1

Signal: 1

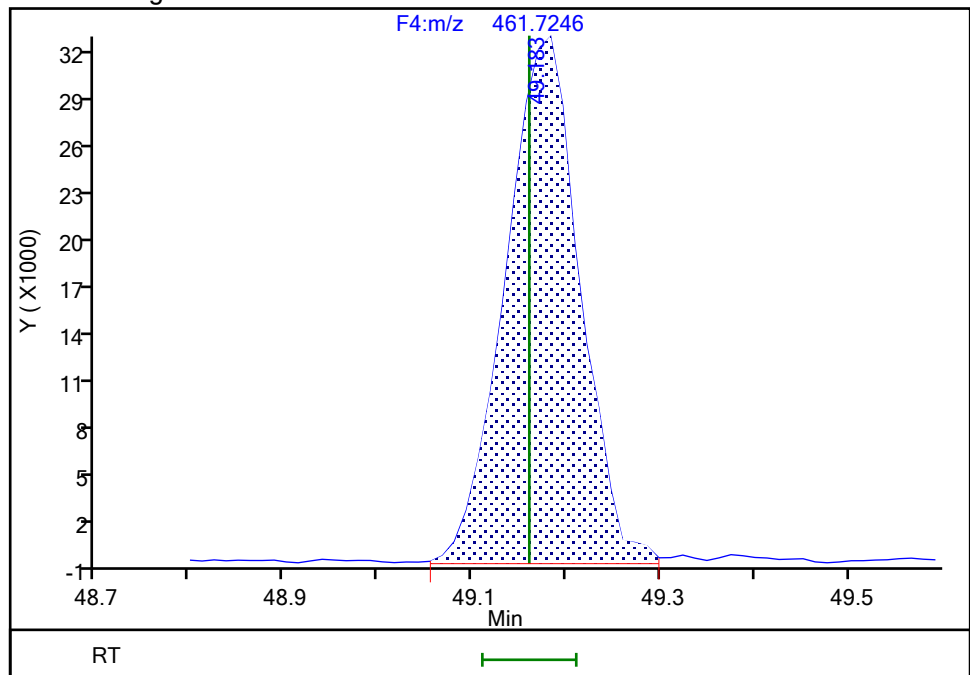
RT: 49.18
Area: 173223
Amount: 5.025504
Amount Units: pg/ul

Processing Integration Results



RT: 49.18
Area: 176905
Amount: 5.121125
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1942 of 3076

BASFHWC-G-01522-013394
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

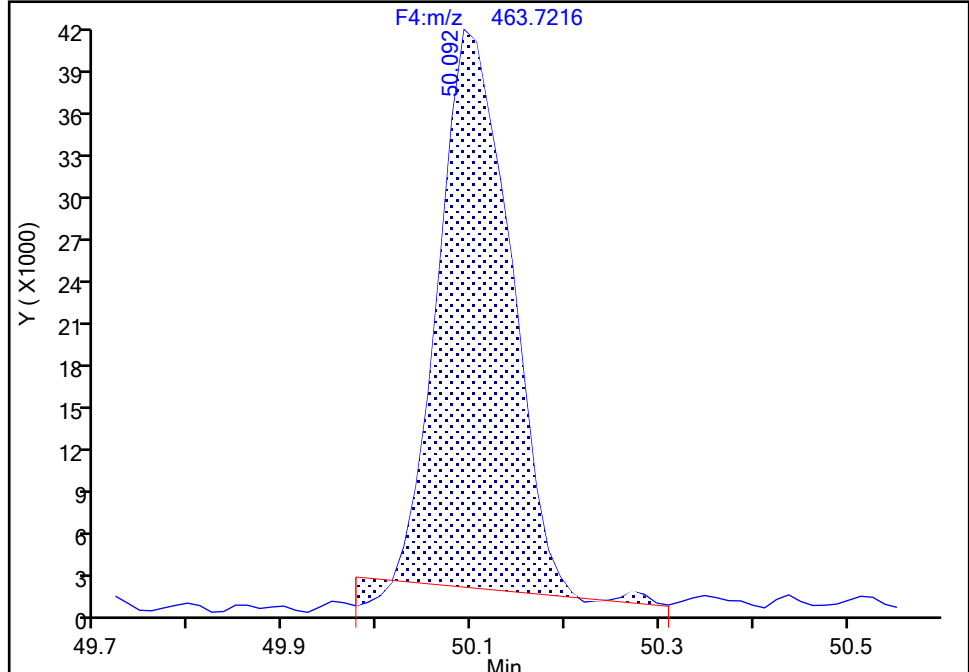
Detector F4(49.20 :57.50)

PCB-207, CAS: 52663-79-3

Signal: 2

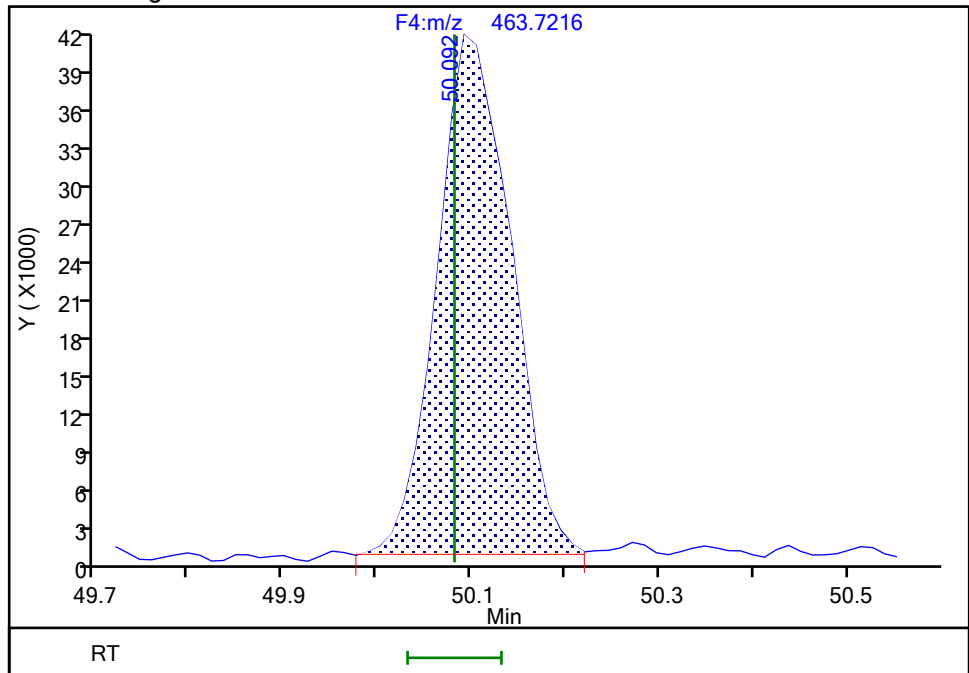
RT: 50.09
Area: 206224
Amount: 4.785694
Amount Units: pg/ul

Processing Integration Results



RT: 50.09
Area: 223758
Amount: 4.884898
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

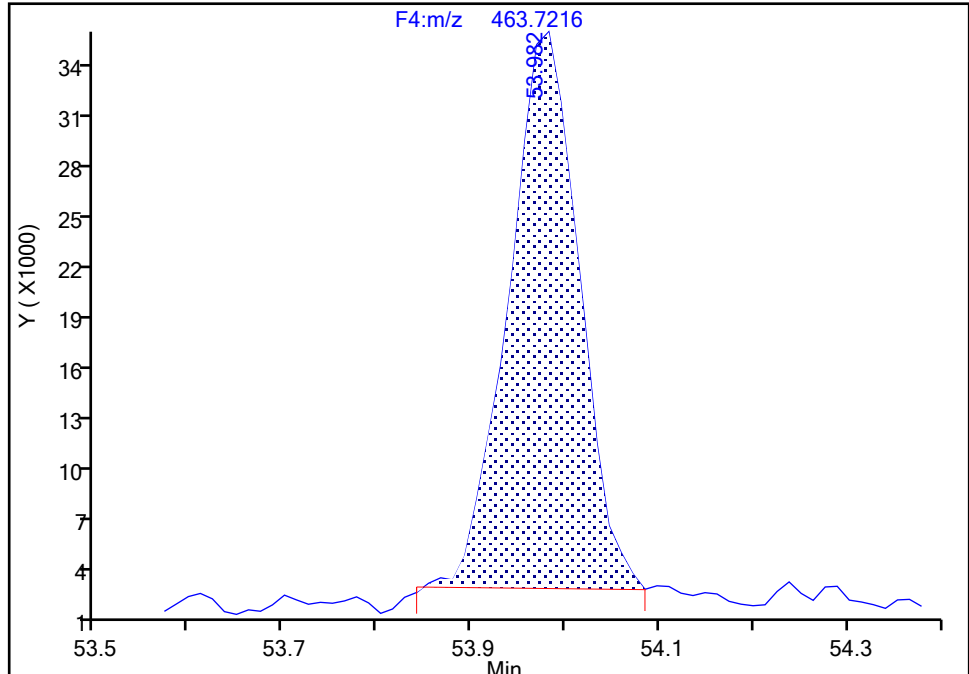
F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 2

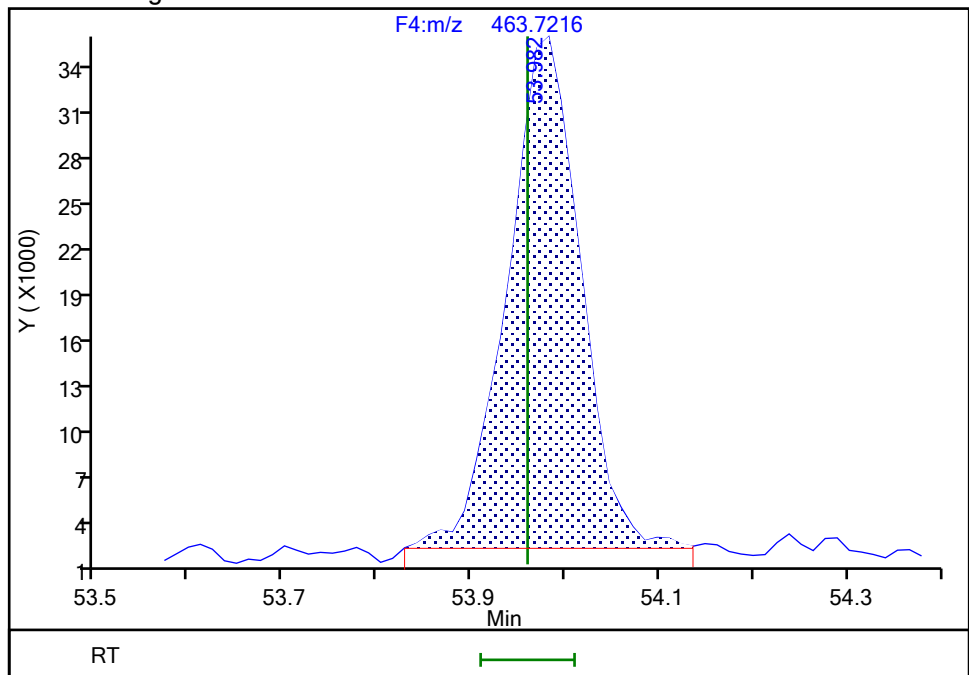
RT: 53.98
Area: 168889
Amount: 4.578046
Amount Units: pg/ul

Processing Integration Results



RT: 53.98
Area: 179481
Amount: 4.733555
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

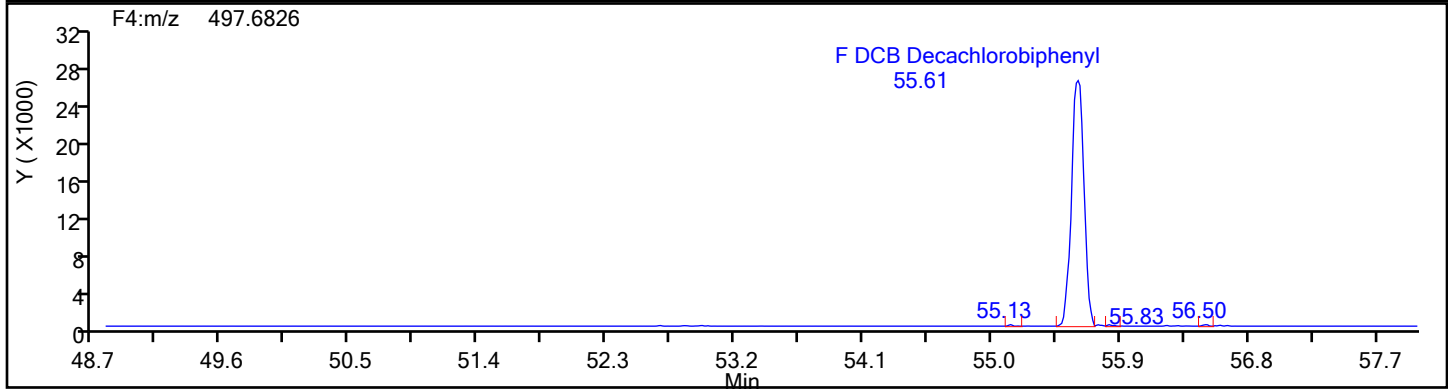
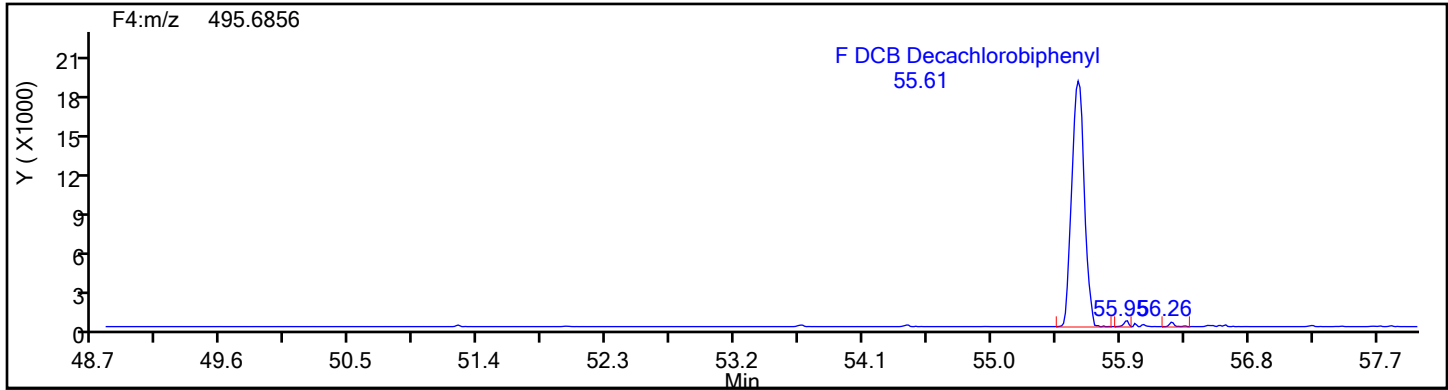
Worklist#: 87130

Sample Line#: 3

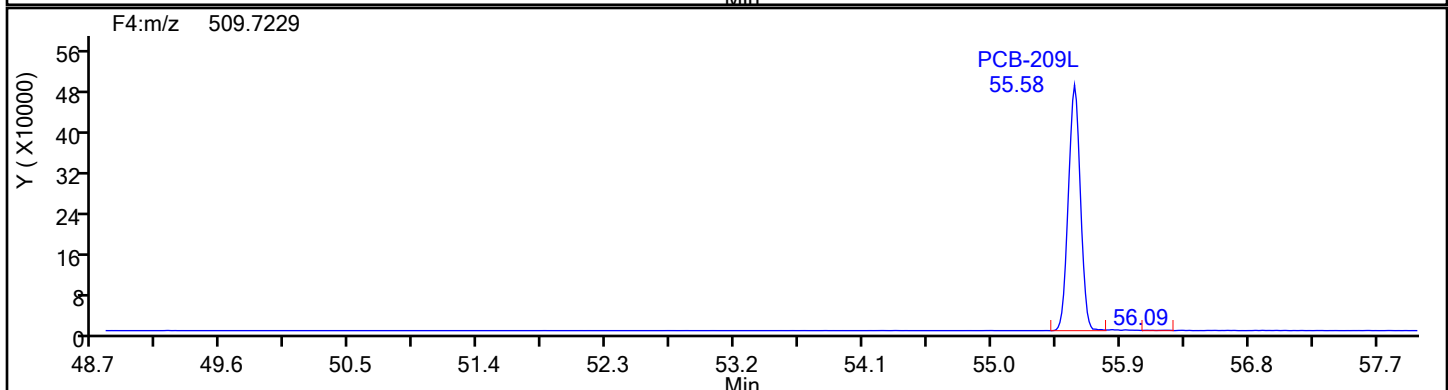
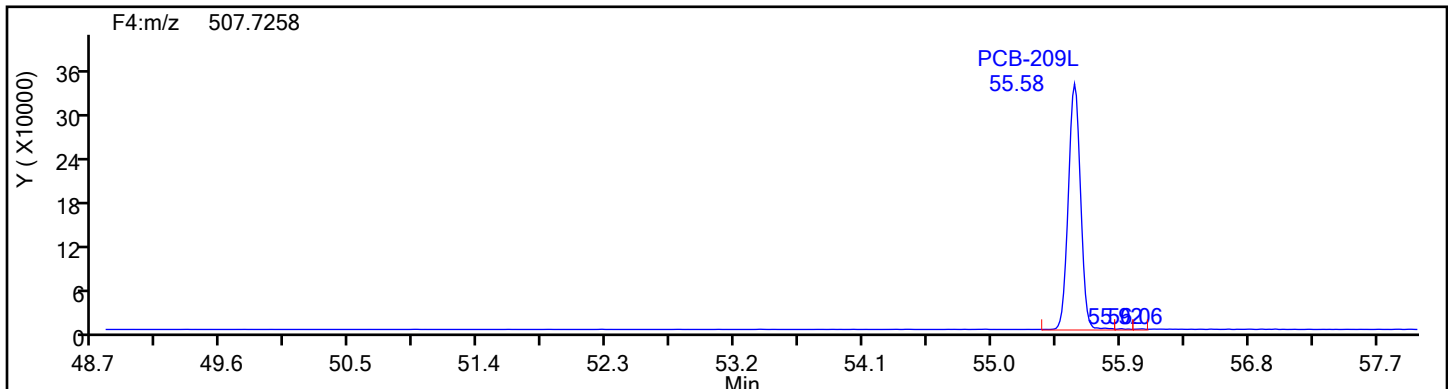
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4

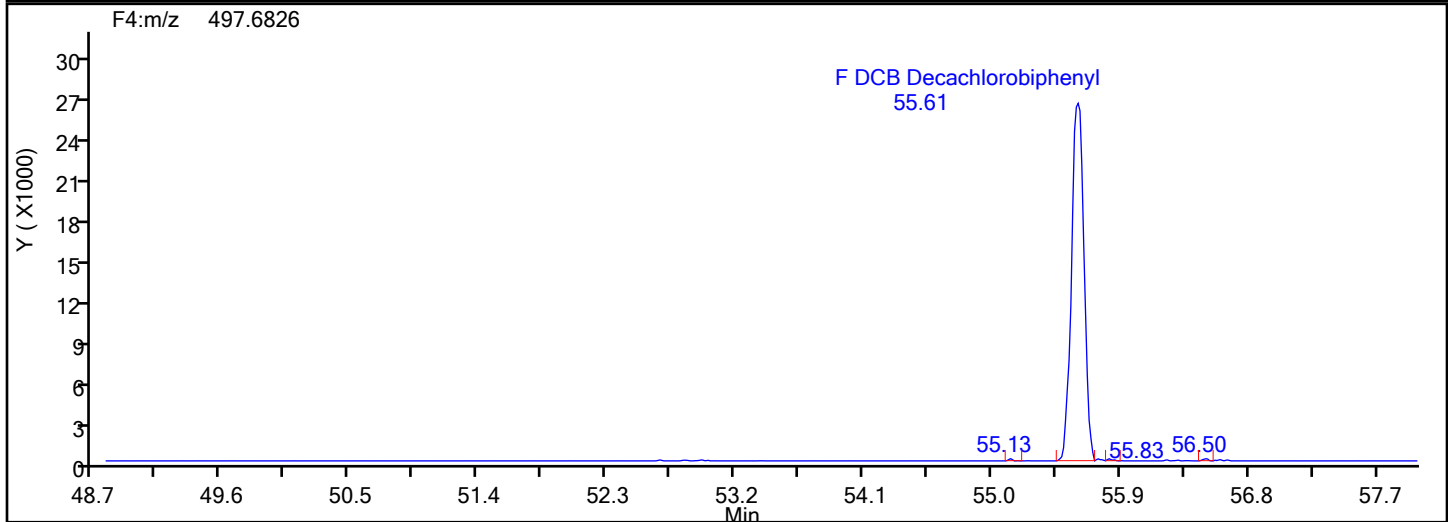
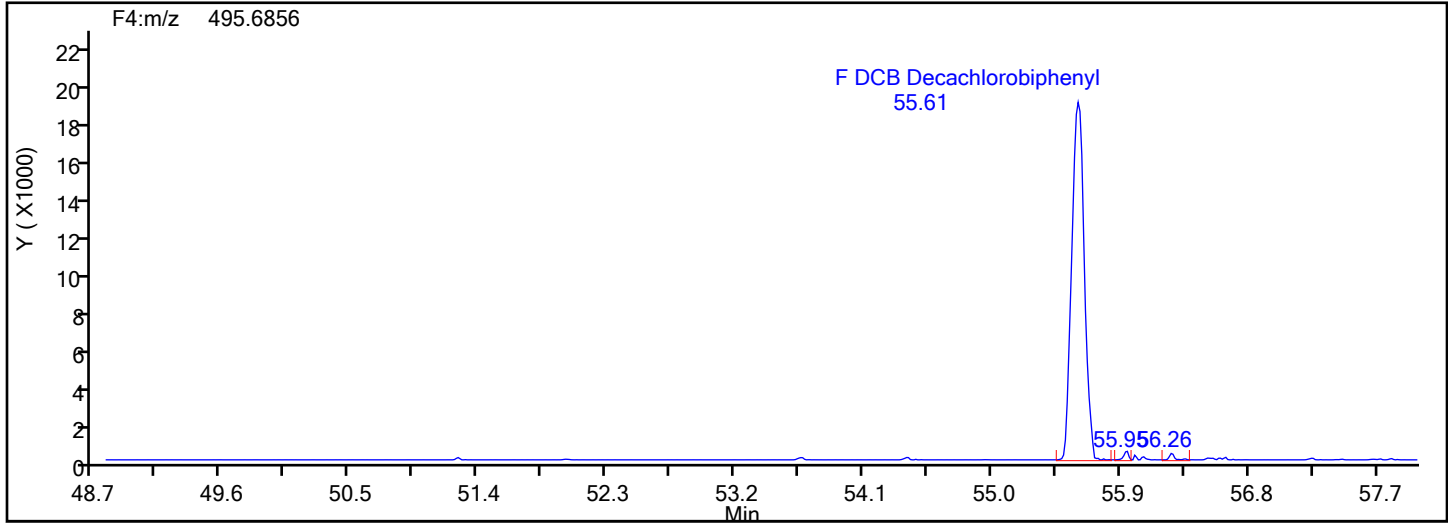


DePCB F4 Standards

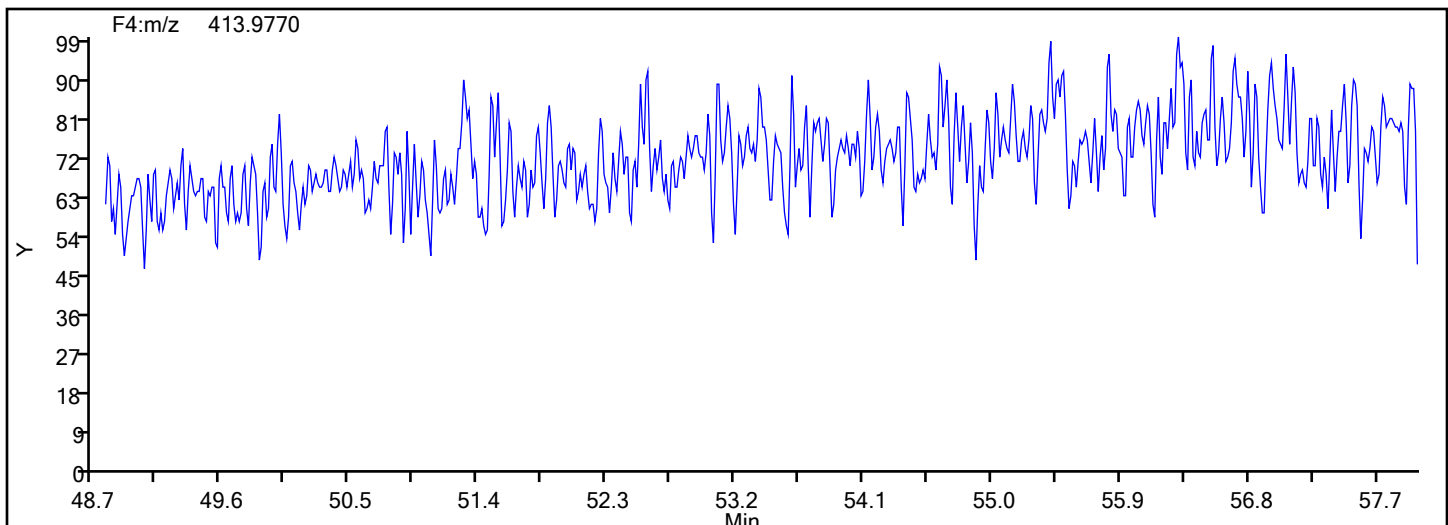


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 3
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-May-2024 19:10:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-004
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:27:46 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: V4XA

Date: 31-May-2024 21:28:40

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					149.5	149.5	0.2043	0.2043		
D PCB-1L	11:36	13654287	3.17	1.6108	101.9	101.9	0.3060	0.3060	102	
D PCB-3L	13:46	13165806	3.18	1.5891	99.6	99.6	0.3101	0.3101	99.64	
PCB-1	11:37	8260359	3.19	1.2191	49.6	49.6	0.1822	0.1822	99.25	
PCB-2	13:36	7886042	3.16	1.1805	49.8	49.8	0.2074	0.2074	99.63	
PCB-3	13:47	8044849	3.08	1.2206	50.1	50.1	0.2233	0.2233	100	
S Total Dichlorobiphenyls					596.4	596.4	0.0398	0.0398		
D PCB-4L	14:02	5474214	1.57	0.6475	101.7	101.7	0.1177	0.1177	102	
* PCB-9L	15:59	8314907	1.64		100.0	100.0				
\$ PCB-8L	16:50	4194596	1.64	1.2066	48.5	48.5	0.0758	0.0758	97.04	
D PCB-15L	19:54	8855244	1.66	1.0789	98.7	98.7	0.0706	0.0706	98.71	
PCB-4	14:02	3479874	1.53	1.2818	49.6	49.6	0.0467	0.0467	99.18	
PCB-10	14:13	4792674	1.61	1.3149	50.9	50.9	0.0416	0.0416	102	
PCB-9	16:00	5083530	1.60	1.4224	49.9	49.9	0.0385	0.0385	99.76	
PCB-7	16:10	4950093	1.58	1.4134	48.9	48.9	0.0387	0.0387	97.76	
PCB-6	16:25	5408103	1.60	1.5421	48.9	48.9	0.0355	0.0355	97.90	
PCB-5	16:43	4844644	1.64	1.3395	50.5	50.5	0.0409	0.0409	101	
PCB-8	16:50	5621585	1.60	1.5889	49.4	49.4	0.0344	0.0344	98.76	
PCB-14	18:28	5066034	1.62	1.4025	50.4	50.4	0.0390	0.0390	101	
PCB-11	19:18	4598736	1.60	1.2951	49.6	49.6	0.0423	0.0423	99.12	
PCB-12	19:36	9487445	1.61	1.3358	99.1	99.1	0.0410	0.0410	99.13	
PCB-13 (C12)	19:36	9487445	1.61	1.3358	99.1	99.1	0.0410	0.0410	99.13	
PCB-15	19:55	5621988	1.64	1.2903	49.2	49.2	0.0391	0.0391	98.41	
S Total Trichlorobiphenyls					1185.4	1185.4	0.3790	0.3790		
D PCB-19L	17:08	3406868	1.06	0.6285	100.2	100.2	0.2286	0.2286	100	
* PCB-32L	20:23	5407330	1.09		100.0	100.0				
* PCB-31L	22:38	15561763	1.05		100.0	100.0				
\$ PCB-28L	22:56	7682166	1.04	1.0494	47.0	47.0	0.0838	0.0838	94.08	
D PCB-37L	26:55	13535671	1.07	0.8749	99.4	99.4	0.1006	0.1006	99.41	
PCB-19	17:09	2152324	1.07	1.2809	49.3	49.3	0.0278	0.0278	98.64	
PCB-18	18:59	6054511	1.05	1.7652	100.7	100.7	0.0202	0.0202	101	
PCB-30 (C18)	18:59	6054511	1.05	1.7652	100.7	100.7	0.0202	0.0202	101	
PCB-17	19:26	2122247	1.06	1.2430	50.1	50.1	0.0286	0.0286	100	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:39	3179572	1.04	1.8327	50.9	50.9	0.0194	0.0194	102	
PCB-24	19:46	2814319	1.03	1.6777	49.2	49.2	0.0212	0.0212	98.48	
PCB-16	19:53	1959828	1.08	1.1286	51.0	51.0	0.0316	0.0316	102	
PCB-32	20:23	3076908	1.05	1.8324	49.3	49.3	0.0194	0.0194	98.57	
PCB-34	21:39	7616885	1.06	1.1277	49.9	49.9	0.5753	0.5753	99.80	
PCB-23	21:48	7186368	1.05	1.0813	49.1	49.1	0.6000	0.6000	98.20	
PCB-26	22:08	14701213	1.05	1.1255	96.5	96.5	0.5765	0.5765	96.50	
PCB-29 (C26)	22:08	14701213	1.05	1.1255	96.5	96.5	0.5765	0.5765	96.50	
PCB-25	22:21	8444656	1.04	1.2728	49.0	49.0	0.5097	0.5097	98.03	
PCB-31	22:40	7458669	1.05	1.1532	47.8	47.8	0.5626	0.5626	95.56	
PCB-20	22:58	15507992	1.06	1.1718	97.8	97.8	0.5537	0.5537	97.77	
PCB-28 (C20)	22:58	15507992	1.06	1.1718	97.8	97.8	0.5537	0.5537	97.77	
PCB-21	23:07	14314146	1.02	1.0746	98.4	98.4	0.6038	0.6038	98.41	M
PCB-33 (C21)	23:07	14314146	1.02	1.0746	98.4	98.4	0.6038	0.6038	98.41	M
PCB-22	23:35	7874512	1.04	1.1932	48.8	48.8	0.5437	0.5437	97.51	
PCB-36	25:09	7632212	1.02	1.1071	50.9	50.9	0.5861	0.5861	102	
PCB-39	25:30	7752224	1.07	1.1581	49.5	49.5	0.5602	0.5602	98.90	
PCB-38	26:05	7153021	1.07	1.0843	48.7	48.7	0.5983	0.5983	97.47	
PCB-35	26:32	7562291	1.04	1.1297	49.5	49.5	0.5743	0.5743	98.91	
PCB-37	26:57	7589418	1.03	1.1435	49.0	49.0	0.5674	0.5674	98.07	
S Total Tetrachlorobiphenyls					2058.1	2058.1	0.5133	0.5133		
D PCB-54L	20:12	3125781	0.82	0.5562	103.9	103.9	0.0976	0.0976	104	
* PCB-52L	24:46	7876230	0.79		100.0	100.0				
\$ PCB-79L	32:41	4986068	0.80	1.0018	49.8	49.8	0.4360	0.4360	99.60	
D PCB-81L	33:41	9689577	0.80	1.2470	98.7	98.7	0.3954	0.3954	98.66	
D PCB-77L	34:14	10298891	0.81	1.3212	99.0	99.0	0.3732	0.3732	98.97	
PCB-54	20:13	2056772	0.78	1.2733	51.7	51.7	0.0450	0.0450	103	
PCB-50	22:24	8406058	0.78	0.8578	98.1	98.1	0.6593	0.6593	98.05	
PCB-53 (C50)	22:24	8406058	0.78	0.8578	98.1	98.1	0.6593	0.6593	98.05	
PCB-45	23:08	8278212	0.78	0.8264	100.2	100.2	0.6844	0.6844	100	M
PCB-51 (C45)	23:08	8278212	0.78	0.8264	100.2	100.2	0.6844	0.6844	100	M
PCB-46	23:22	3495887	0.77	0.7101	49.3	49.3	0.7965	0.7965	98.52	
PCB-52	24:47	4723711	0.77	0.9194	51.4	51.4	0.6151	0.6151	103	M
PCB-43	24:56	10270296	0.79	1.0333	99.4	99.4	0.5473	0.5473	99.45	Ma
PCB-73 (C43)	24:56	10270296	0.79	1.0333	99.4	99.4	0.5473	0.5473	99.45	Ma
PCB-49	25:14	10490769	0.77	1.0685	98.2	98.2	0.5293	0.5293	98.24	Ma
PCB-69 (C49)	25:14	10490769	0.77	1.0685	98.2	98.2	0.5293	0.5293	98.24	Ma
PCB-48	25:33	4096041	0.78	0.8399	48.8	48.8	0.6734	0.6734	97.59	
PCB-44	25:48	14013306	0.80	0.9731	144.1	144.1	0.5812	0.5812	96.06	
PCB-47 (C44)	25:48	14013306	0.80	0.9731	144.1	144.1	0.5812	0.5812	96.06	
PCB-65 (C44)	25:48	14013306	0.80	0.9731	144.1	144.1	0.5812	0.5812	96.06	
PCB-59	26:06	16871670	0.80	1.1853	142.4	142.4	0.4772	0.4772	94.95	
PCB-62 (C59)	26:06	16871670	0.80	1.1853	142.4	142.4	0.4772	0.4772	94.95	
PCB-75 (C59)	26:06	16871670	0.80	1.1853	142.4	142.4	0.4772	0.4772	94.95	
PCB-42	26:18	4062353	0.81	0.8097	50.2	50.2	0.6985	0.6985	100	
PCB-40	26:48	12777370	0.80	0.8863	144.2	144.2	0.6381	0.6381	96.16	M
PCB-41 (C40)	26:48	12777370	0.80	0.8863	144.2	144.2	0.6381	0.6381	96.16	M
PCB-71 (C40)	26:48	12777370	0.80	0.8863	144.2	144.2	0.6381	0.6381	96.16	M
PCB-64	27:01	5640018	0.80	1.1776	47.9	47.9	0.4803	0.4803	95.85	
PCB-72	27:51	5513402	0.79	1.0943	50.4	50.4	0.5168	0.5168	101	
PCB-68	28:09	6342042	0.80	1.2533	50.6	50.6	0.4513	0.4513	101	
PCB-57	28:34	5445573	0.80	1.0818	50.4	50.4	0.5228	0.5228	101	
PCB-58	28:48	6808166	0.80	1.3253	51.4	51.4	0.4267	0.4267	103	
PCB-67	28:58	6875936	0.80	1.4230	48.3	48.3	0.3974	0.3974	96.69	
PCB-63	29:14	5498511	0.83	1.1240	48.9	48.9	0.5032	0.5032	97.90	
PCB-61	29:34	24255009	0.80	1.2612	192.4	192.4	0.4484	0.4484	96.21	M
PCB-70 (C61)	29:34	24255009	0.80	1.2612	192.4	192.4	0.4484	0.4484	96.21	M
PCB-74 (C61)	29:34	24255009	0.80	1.2612	192.4	192.4	0.4484	0.4484	96.21	M
PCB-76 (C61)	29:34	24255009	0.80	1.2612	192.4	192.4	0.4484	0.4484	96.21	M
PCB-66	29:53	6312222	0.82	1.2583	50.2	50.2	0.4495	0.4495	100	
PCB-55	30:03	6483526	0.82	1.3236	49.0	49.0	0.4273	0.4273	98.02	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:33	6041547	0.81	1.2334	49.0	49.0	0.4585	0.4585	98.02	
PCB-60	30:46	5475280	0.80	1.1230	48.8	48.8	0.5036	0.5036	97.56	
PCB-80	31:11	6451950	0.77	1.3243	48.7	48.7	0.4271	0.4271	97.50	
PCB-79	32:42	6861599	0.79	1.4368	47.8	47.8	0.3936	0.3936	95.57	
PCB-78	33:15	5506314	0.78	1.1618	47.4	47.4	0.4868	0.4868	94.84	
PCB-81	33:42	5214743	0.78	1.0802	49.8	49.8	0.5270	0.5270	99.64	
PCB-77	34:16	5446719	0.76	1.0836	48.8	48.8	0.5186	0.5186	97.61	
S Total Pentachlorobiphenyls					2266.8	2266.8	0.2696	0.2696		
D PCB-104L	25:42	6455349	1.58	1.2161	101.5	101.5	0.0397	0.0397	102	
\$ PCB-95L	28:41	2314965	1.62	0.7218	49.7	49.7	0.0503	0.0503	99.37	
* PCB-101L	31:37	5228368	1.60		100.0	100.0				
\$ PCB-111L	34:17	3399701	1.59	1.3699	47.5	47.5	0.0353	0.0353	94.93	
D PCB-123L	36:15	9501201	1.57	0.9731	98.3	98.3	1.116	1.116	98.31	
D PCB-118L	36:34	10094764	1.57	1.0102	100.6	100.6	1.076	1.076	101	
D PCB-114L	37:06	9734953	1.60	0.9949	98.5	98.5	1.092	1.092	98.52	
D PCB-105L	37:45	9433900	1.59	0.9514	99.8	99.8	1.142	1.142	99.84	
* PCB-127L	39:14	9931738	1.57		100.0	100.0				
D PCB-126L	40:50	9388684	1.57	0.9439	100.2	100.2	1.151	1.151	100	
PCB-104	25:44	3284431	1.56	1.0087	50.4	50.4	0.0203	0.0203	101	
PCB-96	26:06	3505288	1.58	1.0940	49.6	49.6	0.0187	0.0187	99.27	
PCB-103	28:02	2810660	1.58	0.8741	49.8	49.8	0.0235	0.0235	99.62	
PCB-94	28:16	2353932	1.58	0.7640	47.7	47.7	0.0268	0.0268	95.46	
PCB-95	28:42	2613771	1.60	0.8033	50.4	50.4	0.0255	0.0255	101	
PCB-93	28:55	5326508	1.58	0.8429	97.9	97.9	0.0243	0.0243	97.90	
PCB-100 (C93)	28:55	5326508	1.58	0.8429	97.9	97.9	0.0243	0.0243	97.90	
PCB-98	29:04	5294749	1.60	0.8262	99.3	99.3	0.0248	0.0248	99.28	
PCB-102 (C98)	29:04	5294749	1.60	0.8262	99.3	99.3	0.0248	0.0248	99.28	
PCB-88	29:33	5073604	1.60	0.8013	98.1	98.1	0.0256	0.0256	98.09	
PCB-91 (C88)	29:33	5073604	1.60	0.8013	98.1	98.1	0.0256	0.0256	98.09	
PCB-84	29:47	2297413	1.57	0.7299	48.8	48.8	0.0281	0.0281	97.51	
PCB-89	30:16	2424086	1.59	0.7798	48.2	48.2	0.0263	0.0263	96.31	
PCB-121	30:41	4144482	1.64	1.2964	49.5	49.5	0.0158	0.0158	99.05	
PCB-92	31:03	2724348	1.60	0.8546	49.4	49.4	0.0240	0.0240	98.77	
PCB-90	31:37	9126697	1.58	0.9550	148.0	148.0	0.0215	0.0215	98.70	
PCB-101 (C90)	31:37	9126697	1.58	0.9550	148.0	148.0	0.0215	0.0215	98.70	
PCB-113 (C90)	31:37	9126697	1.58	0.9550	148.0	148.0	0.0215	0.0215	98.70	
PCB-83	32:13	5527064	1.61	0.8385	102.1	102.1	0.0245	0.0245	102	
PCB-99 (C83)	32:13	5527064	1.61	0.8385	102.1	102.1	0.0245	0.0245	102	
PCB-112	32:20	4359398	1.58	1.4111	47.9	47.9	0.0145	0.0145	95.71	
PCB-86	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-87 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-97 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-109 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-119 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-125 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-85	33:25	9894792	1.61	1.0408	147.3	147.3	0.0197	0.0197	98.18	
PCB-116 (C85)	33:25	9894792	1.61	1.0408	147.3	147.3	0.0197	0.0197	98.18	
PCB-117 (C85)	33:25	9894792	1.61	1.0408	147.3	147.3	0.0197	0.0197	98.18	
PCB-110	33:37	7463251	1.57	1.1919	97.0	97.0	0.0172	0.0172	97.00	
PCB-115 (C110)	33:37	7463251	1.57	1.1919	97.0	97.0	0.0172	0.0172	97.00	
PCB-82	33:55	2659391	1.54	0.8303	49.6	49.6	0.0247	0.0247	99.23	
PCB-111	34:19	3825096	1.57	1.2125	48.9	48.9	0.0169	0.0169	97.74	
PCB-120	34:47	4697232	1.59	1.4762	49.3	49.3	0.0139	0.0139	98.58	
PCB-108	35:55	10706077	1.59	1.1405	97.5	97.5	0.7702	0.7702	97.47	
PCB-124 (C108)	35:55	10706077	1.59	1.1405	97.5	97.5	0.7702	0.7702	97.47	
PCB-107	36:09	5897415	1.57	1.2121	50.5	50.5	0.7248	0.7248	101	
PCB-123	36:16	5033992	1.69	1.0722	49.4	49.4	0.8206	0.8206	98.83	
PCB-106	36:23	5140106	1.45	1.0839	49.2	49.2	0.8105	0.8105	98.48	
PCB-118	36:36	6016008	1.58	1.2055	49.4	49.4	0.6916	0.6916	98.87	
PCB-122	36:56	4709445	1.58	0.9567	51.1	51.1	0.9182	0.9182	102	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:08	5307527	1.60	1.0842	50.3	50.3	0.7830	0.7830	101	
PCB-105	37:46	5526391	1.56	1.1879	49.3	49.3	0.7574	0.7574	98.63	
PCB-127	39:15	5642766	1.59	1.1394	51.4	51.4	0.7710	0.7710	103	
PCB-126	40:52	5411840	1.55	1.0976	52.5	52.5	0.8545	0.8545	105	
S Total Hexachlorobiphenyls					2088.6	2088.6	0.2613	0.2613		
D PCB-155L	31:23	5786925	1.29	1.0851	102.0	102.0	0.0250	0.0250	102	
\$ PCB-153L	38:27	3417541	1.31	0.9169	45.8	45.8	0.9578	0.9578	91.68	
* PCB-138L	39:41	6594689	1.30		100.0	100.0				
\$ PCB-159L	41:56	4385171	1.29	0.5118	102.9	102.9	1.435	1.435	103	
D PCB-167L	42:42	8329121	1.28	1.2572	100.5	100.5	0.7283	0.7283	100	
D PCB-156L	43:51	16048883	1.29	1.2106	201.0	201.0	0.7563	0.7563	101	
D PCB-157L (C156L)	43:51	16048883	1.29	1.2106	201.0	201.0	0.7563	0.7563	101	
D PCB-169L	47:05	8145884	1.28	1.2439	99.3	99.3	0.7361	0.7361	99.31	
PCB-155	31:25	2757196	1.29	0.9444	50.4	50.4	0.006493	0.006493	101	
PCB-152	31:36	2752865	1.25	0.9895	48.1	48.1	0.006197	0.006197	96.15	
PCB-150	31:46	2933125	1.28	1.0132	50.0	50.0	0.006052	0.006052	100	
PCB-136	32:08	2858801	1.28	1.0116	48.8	48.8	0.006062	0.006062	97.67	
PCB-145	32:25	2773933	1.29	0.9685	49.5	49.5	0.006331	0.006331	98.99	
PCB-148	33:57	2176255	1.30	0.7603	49.5	49.5	0.008065	0.008065	98.93	
PCB-135	34:32	4192182	1.24	0.7256	99.8	99.8	0.008451	0.008451	99.84	Ma
PCB-151 (C135)	34:32	4192182	1.24	0.7256	99.8	99.8	0.008451	0.008451	99.84	Ma
PCB-154	34:47	2371495	1.28	0.8129	50.4	50.4	0.007543	0.007543	101	
PCB-144	35:06	2232331	1.26	0.7852	49.1	49.1	0.007809	0.007809	98.25	
PCB-147	35:27	7067120	1.26	0.8950	97.1	97.1	0.3814	0.3814	97.12	
PCB-149 (C147)	35:27	7067120	1.26	0.8950	97.1	97.1	0.3814	0.3814	97.12	
PCB-134	35:45	6440496	1.27	0.7967	99.4	99.4	0.4285	0.4285	99.42	
PCB-143 (C134)	35:45	6440496	1.27	0.7967	99.4	99.4	0.4285	0.4285	99.42	
PCB-139	36:04	7038694	1.27	0.8769	98.7	98.7	0.3893	0.3893	98.72	
PCB-140 (C139)	36:04	7038694	1.27	0.8769	98.7	98.7	0.3893	0.3893	98.72	
PCB-131	36:15	3018928	1.27	0.7503	49.5	49.5	0.4549	0.4549	98.97	M
PCB-142	36:24	3115155	1.25	0.7507	51.0	51.0	0.4547	0.4547	102	M
PCB-132	36:43	2979191	1.25	0.7489	48.9	48.9	0.4558	0.4558	97.85	
PCB-133	37:14	3245992	1.28	0.8096	49.3	49.3	0.4216	0.4216	98.62	
PCB-165	37:37	4186901	1.30	1.0247	50.3	50.3	0.3331	0.3331	101	
PCB-146	37:52	3845405	1.27	0.9637	49.1	49.1	0.3542	0.3542	98.15	
PCB-161	38:00	4666072	1.28	1.1288	50.8	50.8	0.3024	0.3024	102	
PCB-153	38:30	8944568	1.26	1.0938	100.6	100.6	0.3121	0.3121	101	
PCB-168 (C153)	38:30	8944568	1.26	1.0938	100.6	100.6	0.3121	0.3121	101	
PCB-141	38:41	3461353	1.29	0.8755	48.6	48.6	0.3899	0.3899	97.25	
PCB-130	39:05	2838645	1.29	0.7051	49.5	49.5	0.4841	0.4841	99.02	
PCB-137	39:18	3298456	1.24	0.7767	52.2	52.2	0.4395	0.4395	104	
PCB-164	39:26	4200180	1.28	1.0382	49.8	49.8	0.3288	0.3288	99.51	
PCB-129	39:44	15110013	1.26	0.9464	196.4	196.4	0.3607	0.3607	98.18	M
PCB-138 (C129)	39:44	15110013	1.26	0.9464	196.4	196.4	0.3607	0.3607	98.18	M
PCB-160 (C129)	39:44	15110013	1.26	0.9464	196.4	196.4	0.3607	0.3607	98.18	M
PCB-163 (C129)	39:44	15110013	1.26	0.9464	196.4	196.4	0.3607	0.3607	98.18	M
PCB-158	40:07	5319521	1.25	1.3110	49.9	49.9	0.2604	0.2604	99.80	
PCB-128	40:57	8124665	1.22	0.9829	101.7	101.7	0.3473	0.3473	102	
PCB-166 (C128)	40:57	8124665	1.22	0.9829	101.7	101.7	0.3473	0.3473	102	
PCB-159	41:58	5578541	1.29	1.3856	49.5	49.5	0.2463	0.2463	99.03	
PCB-162	42:15	5046359	1.24	1.2571	49.4	49.4	0.2715	0.2715	98.74	
PCB-167	42:44	4608166	1.28	1.1159	49.6	49.6	0.2558	0.2558	99.16	
PCB-156	43:53	8938406	1.25	1.1104	100.3	100.3	0.3748	0.3748	100	
PCB-157 (C156)	43:53	8938406	1.25	1.1104	100.3	100.3	0.3748	0.3748	100	
PCB-169	47:06	4858941	1.28	1.1628	51.3	51.3	0.2522	0.2522	103	
S Total Heptachlorobiphenyls					1208.3	1208.3	0.0110	0.0110		
D PCB-188L	37:07	6587579	1.06	1.3133	100.8	100.8	0.0326	0.0326	101	
\$ PCB-178L	40:10	2454141	1.07	1.0313	47.8	47.8	0.0415	0.0415	95.61	
* PCB-180L	45:15	4977558	1.07		100.0	100.0				

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-170L	46:30	4156589	1.07	0.8362	99.9	99.9	0.0512	0.0512	99.86	
D PCB-189L	49:37	10070777	1.06	1.4414	99.7	99.7	0.4358	0.4358	99.65	
PCB-188	37:08	3706640	1.06	1.1350	49.6	49.6	0.001884	0.001884	99.15	
PCB-179	37:28	3733944	1.05	1.4276	48.7	48.7	0.001869	0.001869	97.38	
PCB-184	38:00	3714498	1.04	1.3672	50.6	50.6	0.001951	0.001951	101	
PCB-176	38:21	3337458	1.06	1.2331	50.4	50.4	0.002164	0.002164	101	
PCB-186	38:48	4051516	1.07	1.4737	51.2	51.2	0.001810	0.001810	102	
PCB-178	40:11	2440485	1.05	0.8946	50.8	50.8	0.002982	0.002982	102	
PCB-175	40:49	2569891	1.05	0.9524	50.2	50.2	0.002801	0.002801	100	
PCB-187	41:05	3023234	1.04	1.1018	51.1	51.1	0.002421	0.002421	102	
PCB-182	41:18	2647036	1.05	0.9247	53.3	53.3	0.002885	0.002885	107	
PCB-183	41:42	5114533	1.06	0.9825	96.9	96.9	0.002715	0.002715	96.90	Ma
PCB-185 (C183)	41:42	5114533	1.06	0.9825	96.9	96.9	0.002715	0.002715	96.90	Ma
PCB-174	41:56	2681848	1.06	0.9642	51.8	51.8	0.002767	0.002767	104	
PCB-177	42:22	2633576	1.00	0.9773	50.2	50.2	0.002730	0.002730	100	
PCB-181	42:45	2521026	1.08	0.9505	49.4	49.4	0.002807	0.002807	98.74	
PCB-171	42:59	4804669	1.06	0.9336	95.8	95.8	0.002857	0.002857	95.79	
PCB-173 (C171)	42:59	4804669	1.06	0.9336	95.8	95.8	0.002857	0.002857	95.79	
PCB-172	44:37	2347963	1.05	0.8519	51.3	51.3	0.003132	0.003132	103	
PCB-192	44:54	3758142	1.06	1.3459	52.0	52.0	0.001982	0.001982	104	
PCB-180	45:14	6380540	1.07	1.1676	101.7	101.7	0.002285	0.002285	102	
PCB-193 (C180)	45:14	6380540	1.07	1.1676	101.7	101.7	0.002285	0.002285	102	
PCB-191	45:37	3590548	1.05	1.2891	51.8	51.8	0.002069	0.002069	104	
PCB-170	46:32	2504084	1.04	1.1865	50.8	50.8	0.002987	0.002987	102	
PCB-190	47:02	3582145	1.06	1.3322	50.1	50.1	0.002002	0.002002	100	
PCB-189	49:38	4928731	1.04	0.9633	50.8	50.8	0.1812	0.1812	102	
S Total Octachlorobiphenyls					612.5	612.5	0.0700	0.0700		
D PCB-202L	42:28	4754288	0.90	0.9818	97.3	97.3	0.0212	0.0212	97.28	
* PCB-194L	51:43	7011099	0.92		100.0	100.0				
D PCB-205L	52:11	8337493	0.91	1.1786	100.9	100.9	0.0820	0.0820	101	
PCB-202	42:29	2654251	0.89	1.0359	53.9	53.9	0.0331	0.0331	108	
PCB-201	43:25	2419114	0.90	0.9754	52.2	52.2	0.0352	0.0352	104	
PCB-204	44:05	2562540	0.91	1.0485	51.4	51.4	0.0327	0.0327	103	
PCB-197	44:19	2790933	0.91	1.1458	51.2	51.2	0.0300	0.0300	102	
PCB-200	44:25	2461217	0.92	1.0072	51.4	51.4	0.0341	0.0341	103	
PCB-198	47:12	4197692	0.90	0.8698	101.5	101.5	0.0395	0.0395	102	
PCB-199 (C198)	47:12	4197692	0.90	0.8698	101.5	101.5	0.0395	0.0395	102	
PCB-196	47:53	1892682	0.92	0.7806	51.0	51.0	0.0440	0.0440	102	
PCB-203	48:05	2289580	0.93	0.9292	51.8	51.8	0.0369	0.0369	104	
PCB-195	49:23	3431947	0.91	0.8263	49.8	49.8	0.1859	0.1859	99.63	
PCB-194	51:44	3967420	0.90	0.9735	48.9	48.9	0.1578	0.1578	97.76	
PCB-205	52:13	4478090	0.90	1.0878	49.4	49.4	0.1412	0.1412	98.75	
S Total Nonachlorobiphenyls					146.1	146.1	0.2808	0.2808		
D PCB-208L	49:09	6680775	0.81	0.9576	99.5	99.5	0.2875	0.2875	99.51	
D PCB-206L	53:57	4903942	0.82	0.6947	100.7	100.7	0.3963	0.3963	101	
PCB-208	49:10	3774592	0.80	1.1374	49.7	49.7	0.2671	0.2671	99.34	
PCB-207	50:05	3878521	0.81	1.3756	48.7	48.7	0.2574	0.2574	97.35	
PCB-206	53:58	3124562	0.77	1.3346	47.7	47.7	0.3178	0.3178	95.48	M
D PCB-209L	55:34	4723291	0.71	0.6669	101.0	101.0	0.0521	0.0521	101	
DCB Decachlorobiphenyl	55:36	2603740	0.72	1.1004	50.1	50.1	0.0318	0.0318	100	
S Polychlorinated biphenyls, Total					10212	10212	0.2063	0.2063		

QC Flag Legend

Processing Flags

Report Date: 04-Jun-2024 14:27:48

Chrom Revision: 2.3 20-May-2024 22:00:34

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61CV1668CS3_00019

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-May-2024 19:10:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-004
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:27:46 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: V4XA

Date: 31-May-2024 21:28:40

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:36	0	0.726	10378292	4043023	3400	8500	1189		
202.0766	11:36	11:36	0	0.726	3275995	1290206	1313	3282	983	3.17(2.66-3.60)	
PCB-3L											
200.0795	13:46	13:46	0	0.861	10013550	3298535	3400	8500	970		
202.0766	13:46	13:46	0	0.861	3152256	1047697	1313	3282	798	3.18(2.66-3.60)	
PCB-1											
188.0393	11:37	11:37	0	1.001	6290617	2506209	3342	8355	750		
190.0363	11:37	11:37	0	1.001	1969742	792083	1397	3492	567	3.19(2.66-3.60)	
PCB-2											
188.0393	13:36	13:36	0	0.989	5988227	2039269	3342	8355	610		
190.0363	13:36	13:36	0	0.989	1897815	648319	1397	3492	464	3.16(2.66-3.60)	
PCB-3											
188.0393	13:47	13:47	0	1.001	6073593	2001565	3342	8355	599		
190.0363	13:47	13:47	0	1.001	1971256	645771	1397	3492	462	3.08(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:02	0	0.877	3346902	1112979	579	1447	1922		
236.0376	14:02	14:02	0	0.877	2127312	706863	150	375	4712	1.57(1.33-1.79)	
PCB-9L											
234.0406	15:59	15:59	0		5162483	1476828	579	1447	2551		
236.0376	15:59	15:59	0		3152424	913781	150	375	6092	1.64(1.33-1.79)	
PCB-8L											
234.0406	16:50	16:50	0	1.200	2605493	729678	579	1447	1260		
236.0376	16:50	16:50	0	1.200	1589103	443557	150	375	2957	1.64(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:54	19:54	0	1.245	5520100	1337303	579	1447	2310		
236.0376	19:54	19:54	0	1.245	3335144	825967	150	375	5506	1.66(1.33-1.79)	
PCB-4											
222.0003	14:02	14:02	0	1.001	2103864	704389	136	340	5179		
223.9974	14:02	14:02	0	1.001	1376010	460635	300	750	1535	1.53(1.33-1.79)	
PCB-10											
222.0003	14:13	14:13	0	1.013	2953900	957858	136	340	7043		
223.9974	14:13	14:13	0	1.013	1838774	593970	300	750	1980	1.61(1.33-1.79)	
PCB-9											
222.0003	16:00	16:00	0	1.141	3130109	895194	136	340	6582		
223.9974	16:00	16:00	0	1.141	1953421	563607	300	750	1879	1.60(1.33-1.79)	
PCB-7											
222.0003	16:10	16:10	0	1.153	3033451	871987	136	340	6412		
223.9974	16:10	16:10	0	1.153	1916642	545950	300	750	1820	1.58(1.33-1.79)	
PCB-6											
222.0003	16:25	16:25	0	1.171	3328817	918018	136	340	6750		
223.9974	16:25	16:25	0	1.171	2079286	571130	300	750	1904	1.60(1.33-1.79)	
PCB-5											
222.0003	16:43	16:43	0	1.192	3011145	834355	136	340	6135		
223.9974	16:43	16:43	0	1.192	1833499	505008	300	750	1683	1.64(1.33-1.79)	
PCB-8											
222.0003	16:50	16:50	0	1.201	3460322	945337	136	340	6951		
223.9974	16:50	16:50	0	1.201	2161263	601345	300	750	2004	1.60(1.33-1.79)	
PCB-14											
222.0003	18:28	18:28	0	0.927	3129135	806908	136	340	5933		
223.9974	18:28	18:28	0	0.927	1936899	488798	300	750	1629	1.62(1.33-1.79)	
PCB-11											
222.0003	19:18	19:18	0	0.970	2828865	696910	136	340	5124		
223.9974	19:18	19:18	0	0.970	1769871	445361	300	750	1485	1.60(1.33-1.79)	
PCB-12											
222.0003	19:36	19:36	0	0.985	5855257	962989	136	340	7081		
223.9974	19:36	19:36	0	0.985	3632188	606383	300	750	2021	1.61(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:36	19:36	0	0.985	5855257	962989	136	340	7081		
223.9974	19:36	19:36	0	0.985	3632188	606383	300	750	2021	1.61(1.33-1.79)	
PCB-15											
222.0003	19:55	19:55	0	1.001	3493572	837160	136	340	6156		
223.9974	19:55	19:55	0	1.001	2128416	515666	300	750	1719	1.64(1.33-1.79)	
PCB-19L											
268.0016	17:08	17:08	0	0.841	1750807	486966	387	967	1258		
269.9986	17:08	17:08	0	0.841	1656061	453859	375	937	1210	1.06(0.88-1.20)	
PCB-32L											
268.0016	20:23	20:23	0		2824621	695706	387	967	1798		
269.9986	20:23	20:23	0		2582709	630237	375	937	1681	1.09(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:38	22:38	0		7962003	1894734	756	1890	2506		
269.9986	22:38	22:38	0		7599760	1793669	542	1355	3309	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:56	0	1.013	3925465	890634	756	1890	1178		
269.9986	22:56	22:56	0	1.013	3756701	838469	542	1355	1547	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:55	26:55	0	1.189	6988299	1454248	756	1890	1924		
269.9986	26:55	26:55	0	1.189	6547372	1384396	542	1355	2554	1.07(0.88-1.20)	
PCB-19											
255.9613	17:09	17:09	0	1.001	1111991	306495	88	220	3483		
257.9584	17:09	17:09	0	1.001	1040333	288369	46	115	6269	1.07(0.88-1.20)	
PCB-18											
255.9613	18:59	18:59	0	1.108	3107998	586245	88	220	6662		
257.9584	18:59	18:59	0	1.108	2946513	553857	46	115	12040	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:59	18:59	0	1.108	3107998	586245	88	220	6662		
257.9584	18:59	18:59	0	1.108	2946513	553857	46	115	12040	1.05(0.88-1.20)	
PCB-17											
255.9613	19:26	19:26	0	1.134	1092962	270857	88	220	3078		
257.9584	19:25	19:26	-1	1.134	1029285	254392	46	115	5530	1.06(0.88-1.20)	
PCB-27											
255.9613	19:39	19:39	0	1.147	1622473	403019	88	220	4580		
257.9584	19:39	19:39	0	1.147	1557099	390966	46	115	8499	1.04(0.88-1.20)	
PCB-24											
255.9613	19:46	19:46	0	1.154	1424998	366421	88	220	4164		
257.9584	19:46	19:46	0	1.154	1389321	362384	46	115	7878	1.03(0.88-1.20)	
PCB-16											
255.9613	19:53	19:53	0	1.161	1016275	250108	88	220	2842		
257.9584	19:53	19:53	0	1.161	943553	241993	46	115	5261	1.08(0.88-1.20)	
PCB-32											
255.9613	20:23	20:23	0	1.190	1573620	387081	88	220	4399		
257.9584	20:24	20:23	1	1.191	1503288	366708	46	115	7972	1.05(0.88-1.20)	
PCB-34											
255.9613	21:39	21:39	0	1.264	3910688	929086	4015	10037	231		
257.9584	21:40	21:39	1	1.265	3706197	879140	3352	8380	262	1.06(0.88-1.20)	
PCB-23											
255.9613	21:48	21:48	0	1.273	3680892	891044	4015	10037	222		
257.9584	21:48	21:48	0	1.273	3505476	854530	3352	8380	255	1.05(0.88-1.20)	
PCB-26											
255.9613	22:08	22:08	0	1.292	7520001	1587942	4015	10037	396		
257.9584	22:08	22:08	0	1.292	7181212	1501838	3352	8380	448	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:08	22:08	0	1.292	7520001	1587942	4015	10037	396		
257.9584	22:08	22:08	0	1.292	7181212	1501838	3352	8380	448	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:21	22:21	0	0.830	4304967	954904	4015	10037	238		
257.9584	22:21	22:21	0	0.830	4139689	915161	3352	8380	273	1.04(0.88-1.20)	
PCB-31											
255.9613	22:40	22:40	0	0.842	3816402	879585	4015	10037	219		
257.9584	22:39	22:40	-1	0.841	3642267	843944	3352	8380	252	1.05(0.88-1.20)	
PCB-20											
255.9613	22:58	22:58	0	0.853	7992282	1516726	4015	10037	378		
257.9584	22:58	22:58	0	0.853	7515710	1468876	3352	8380	438	1.06(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:58	22:58	0	0.853	7992282	1516726	4015	10037	378		
257.9584	22:58	22:58	0	0.853	7515710	1468876	3352	8380	438	1.06(0.88-1.20)	
PCB-21											
255.9613	23:07	23:07	0	0.859	7217221	899663	4015	10037	224		M
257.9584	23:07	23:07	0	0.859	7096925	876439	3352	8380	261	1.02(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:07	23:07	0	0.859	7217221	899663	4015	10037	224		M
257.9584	23:07	23:07	0	0.859	7096925	876439	3352	8380	261	1.02(0.88-1.20)	M
PCB-22											
255.9613	23:35	23:35	0	0.876	4006350	930000	4015	10037	232		
257.9584	23:35	23:35	0	0.876	3868162	884541	3352	8380	264	1.04(0.88-1.20)	
PCB-36											
255.9613	25:09	25:09	0	0.934	3856401	776191	4015	10037	193		
257.9584	25:09	25:09	0	0.934	3775811	766404	3352	8380	229	1.02(0.88-1.20)	
PCB-39											
255.9613	25:30	25:30	0	0.947	4000160	851728	4015	10037	212		
257.9584	25:30	25:30	0	0.947	3752064	825891	3352	8380	246	1.07(0.88-1.20)	
PCB-38											
255.9613	26:05	26:05	0	0.969	3689347	791444	4015	10037	197		
257.9584	26:05	26:05	0	0.969	3463674	732524	3352	8380	219	1.07(0.88-1.20)	
PCB-35											
255.9613	26:32	26:32	0	0.986	3848428	780522	4015	10037	194		
257.9584	26:32	26:32	0	0.986	3713863	755635	3352	8380	225	1.04(0.88-1.20)	
PCB-37											
255.9613	26:57	26:57	0	1.001	3857630	792105	4015	10037	197		
257.9584	26:57	26:57	0	1.001	3731788	767063	3352	8380	229	1.03(0.88-1.20)	
PCB-54L											
301.9626	20:12	20:12	0	0.816	1407829	344796	213	532	1619		
303.9597	20:12	20:12	0	0.816	1717952	422285	75	187	5630	0.82(0.65-0.89)	
PCB-52L											
301.9626	24:46	24:46	0		3472813	768008	1397	3492	550		
303.9597	24:46	24:46	0		4403417	972730	2036	5090	478	0.79(0.65-0.89)	
PCB-79L											
301.9626	32:41	32:41	0	0.970	2217256	446543	1397	3492	320		
303.9597	32:41	32:41	0	0.970	2768812	555333	2036	5090	273	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:41	33:41	0	1.360	4317186	873577	1397	3492	625		
303.9597	33:41	33:41	0	1.360	5372391	1078359	2036	5090	530	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:14	34:14	0	1.382	4611326	885191	1397	3492	634		
303.9597	34:14	34:14	0	1.382	5687565	1092358	2036	5090	537	0.81(0.65-0.89)	
PCB-54											
289.9224	20:13	20:13	0	1.000	904097	229578	48	120	4783		
291.9194	20:13	20:13	0	1.000	1152675	295293	128	320	2307	0.78(0.65-0.89)	
PCB-50											
289.9224	22:24	22:24	0	1.108	3692222	765285	2007	5017	381		
291.9194	22:24	22:24	0	1.108	4713836	959428	2438	6095	394	0.78(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:24	22:24	0	1.108	3692222	765285	2007	5017	381		
291.9194	22:24	22:24	0	1.108	4713836	959428	2438	6095	394	0.78(0.65-0.89)	
PCB-45											
289.9224	23:08	23:08	0	1.145	3620739	458605	2007	5017	229		M
291.9194	23:08	23:08	0	1.145	4657473	583384	2438	6095	239	0.78(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:08	23:08	0	1.145	3620739	458605	2007	5017	229		M
291.9194	23:08	23:08	0	1.145	4657473	583384	2438	6095	239	0.78(0.65-0.89)	M
PCB-46											
289.9224	23:22	23:22	0	1.156	1520169	359530	2007	5017	179		
291.9194	23:22	23:22	0	1.156	1975718	465150	2438	6095	191	0.77(0.65-0.89)	
PCB-52											
289.9224	24:47	24:47	0	1.227	2056621	459718	2007	5017	229		M
291.9194	24:47	24:47	0	1.227	2667090	601228	2438	6095	247	0.77(0.65-0.89)	M
PCB-43											
289.9224	24:56	24:56	0	1.234	4529855	596533	2007	5017	297		Ma
291.9194	24:56	24:56	0	1.234	5740441	755545	2438	6095	310	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:56	24:56	0	1.234	4529855	596533	2007	5017	297		Ma
291.9194	24:56	24:56	0	1.234	5740441	755545	2438	6095	310	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:14	25:14	0	1.249	4569817	689427	2007	5017	344		Ma
291.9194	25:13	25:14	-1	1.248	5920952	902796	2438	6095	370	0.77(0.65-0.89)	M
PCB-69 (C49)											
289.9224	25:14	25:14	0	1.249	4569817	689427	2007	5017	344		Ma
291.9194	25:13	25:14	-1	1.248	5920952	902796	2438	6095	370	0.77(0.65-0.89)	M
PCB-48											
289.9224	25:33	25:33	0	1.265	1794492	399619	2007	5017	199		
291.9194	25:33	25:33	0	1.265	2301549	514127	2438	6095	211	0.78(0.65-0.89)	
PCB-44											
289.9224	25:48	25:48	0	1.277	6229082	1107299	2007	5017	552		
291.9194	25:48	25:48	0	1.277	7784224	1373156	2438	6095	563	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:48	25:48	0	1.277	6229082	1107299	2007	5017	552		
291.9194	25:48	25:48	0	1.277	7784224	1373156	2438	6095	563	0.80(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:48	25:48	0	1.277	6229082	1107299	2007	5017	552		
291.9194	25:48	25:48	0	1.277	7784224	1373156	2438	6095	563	0.80(0.65-0.89)	
PCB-59											
289.9224	26:06	26:06	0	1.292	7492080	1075036	2007	5017	536		
291.9194	26:06	26:06	0	1.292	9379590	1347985	2438	6095	553	0.80(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:06	26:06	0	1.292	7492080	1075036	2007	5017	536		
291.9194	26:06	26:06	0	1.292	9379590	1347985	2438	6095	553	0.80(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:06	26:06	0	1.292	7492080	1075036	2007	5017	536		
291.9194	26:06	26:06	0	1.292	9379590	1347985	2438	6095	553	0.80(0.65-0.89)	
PCB-42											
289.9224	26:18	26:18	0	1.302	1818546	385105	2007	5017	192		
291.9194	26:18	26:18	0	1.302	2243807	493298	2438	6095	202	0.81(0.65-0.89)	
PCB-40											
289.9224	26:48	26:48	0	1.327	5676547	871573	2007	5017	434		M
291.9194	26:48	26:48	0	1.327	7100823	1084644	2438	6095	445	0.80(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:48	26:48	0	1.327	5676547	871573	2007	5017	434		M
291.9194	26:48	26:48	0	1.327	7100823	1084644	2438	6095	445	0.80(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:48	26:48	0	1.327	5676547	871573	2007	5017	434		M
291.9194	26:48	26:48	0	1.327	7100823	1084644	2438	6095	445	0.80(0.65-0.89)	M
PCB-64											
289.9224	27:01	27:01	0	1.337	2498718	535237	2007	5017	267		
291.9194	27:01	27:01	0	1.337	3141300	666226	2438	6095	273	0.80(0.65-0.89)	
PCB-72											
289.9224	27:51	27:51	0	0.827	2441019	536446	2007	5017	267		
291.9194	27:51	27:51	0	0.827	3072383	673111	2438	6095	276	0.79(0.65-0.89)	
PCB-68											
289.9224	28:09	28:09	0	0.836	2812968	555647	2007	5017	277		
291.9194	28:08	28:09	-1	0.835	3529074	698370	2438	6095	286	0.80(0.65-0.89)	
PCB-57											
289.9224	28:34	28:34	0	0.848	2419329	519047	2007	5017	259		
291.9194	28:34	28:34	0	0.848	3026244	660394	2438	6095	271	0.80(0.65-0.89)	
PCB-58											
289.9224	28:48	28:48	0	0.855	3034594	622116	2007	5017	310		
291.9194	28:48	28:48	0	0.855	3773572	784981	2438	6095	322	0.80(0.65-0.89)	
PCB-67											
289.9224	28:58	28:58	0	0.860	3051846	599874	2007	5017	299		
291.9194	28:58	28:58	0	0.860	3824090	757913	2438	6095	311	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:14	29:14	0	0.868	2493719	496383	2007	5017	247		
291.9194	29:14	29:14	0	0.868	3004792	599489	2438	6095	246	0.83(0.65-0.89)	
PCB-61											
289.9224	29:34	29:34	0	0.878	10773903	1220235	2007	5017	608		M
291.9194	29:34	29:34	0	0.878	13481106	1531932	2438	6095	628	0.80(0.65-0.89)	M
PCB-70 (C61)											
289.9224	29:34	29:34	0	0.878	10773903	1220235	2007	5017	608		M
291.9194	29:34	29:34	0	0.878	13481106	1531932	2438	6095	628	0.80(0.65-0.89)	M
PCB-74 (C61)											
289.9224	29:34	29:34	0	0.878	10773903	1220235	2007	5017	608		M
291.9194	29:34	29:34	0	0.878	13481106	1531932	2438	6095	628	0.80(0.65-0.89)	M
PCB-76 (C61)											
289.9224	29:34	29:34	0	0.878	10773903	1220235	2007	5017	608		M
291.9194	29:34	29:34	0	0.878	13481106	1531932	2438	6095	628	0.80(0.65-0.89)	M
PCB-66											
289.9224	29:53	29:53	0	0.888	2842004	568003	2007	5017	283		
291.9194	29:53	29:53	0	0.888	3470218	701122	2438	6095	288	0.82(0.65-0.89)	
PCB-55											
289.9224	30:03	30:03	0	0.892	2921462	598936	2007	5017	298		
291.9194	30:03	30:03	0	0.892	3562064	732174	2438	6095	300	0.82(0.65-0.89)	
PCB-56											
289.9224	30:33	30:33	0	0.907	2710725	557215	2007	5017	278		
291.9194	30:33	30:33	0	0.907	3330822	675223	2438	6095	277	0.81(0.65-0.89)	
PCB-60											
289.9224	30:46	30:46	0	0.914	2428465	477796	2007	5017	238		
291.9194	30:46	30:46	0	0.914	3046815	620767	2438	6095	255	0.80(0.65-0.89)	
PCB-80											
289.9224	31:11	31:11	0	0.926	2813888	578323	2007	5017	288		
291.9194	31:11	31:11	0	0.926	3638062	732224	2438	6095	300	0.77(0.65-0.89)	
PCB-79											
289.9224	32:42	32:42	0	0.971	3021627	566596	2007	5017	282		
291.9194	32:42	32:42	0	0.971	3839972	724001	2438	6095	297	0.79(0.65-0.89)	
PCB-78											
289.9224	33:15	33:15	0	0.987	2418743	471340	2007	5017	235		
291.9194	33:15	33:15	0	0.987	3087571	598455	2438	6095	245	0.78(0.65-0.89)	
PCB-81											
289.9224	33:42	33:42	0	1.001	2292556	449662	2007	5017	224		
291.9194	33:41	33:42	-1	1.000	2922187	543759	2438	6095	223	0.78(0.65-0.89)	
PCB-77											
289.9224	34:16	34:16	0	1.001	2357929	471577	2007	5017	235		
291.9194	34:16	34:16	0	1.001	3088790	601620	2438	6095	247	0.76(0.65-0.89)	
PCB-104L											
337.9207	25:42	25:42	0	0.813	3951805	871207	149	372	5847		
339.9178	25:42	25:42	0	0.813	2503544	552806	58	145	9531	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:41	28:41	0	1.116	1433005	295325	149	372	1982		
339.9178	28:41	28:41	0	1.116	881960	189083	58	145	3260	1.62(1.32-1.78)	
PCB-101L											
337.9207	31:37	31:37	0		3214893	664298	149	372	4458		
339.9178	31:37	31:37	0		2013475	406170	58	145	7003	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:17	0	1.085	2088474	400727	149	372	2689		
339.9178	34:17	34:17	0	1.085	1311227	257817	58	145	4445	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	0	1.146	5805680	1141595	5122	12805	223		
339.9178	36:15	36:15	0	1.146	3695521	725424	3163	7907	229	1.57(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	6162016	1206740	5122	12805	236		
339.9178	36:34	36:34	0	1.157	3932748	763387	3163	7907	241	1.57(1.32-1.78)	
PCB-114L											
337.9207	37:06	37:06	0	1.173	5997457	1177940	5122	12805	230		
339.9178	37:06	37:06	0	1.173	3737496	757247	3163	7907	239	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:45	37:45	0	1.194	5785442	1114112	5122	12805	218		
339.9178	37:45	37:45	0	1.194	3648458	711763	3163	7907	225	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:14	39:14	0		6068789	1166672	5122	12805	228		
339.9178	39:14	39:14	0		3862949	739609	3163	7907	234	1.57(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:50	0	1.292	5739026	1074442	5122	12805	210		
339.9178	40:50	40:50	0	1.292	3649658	677088	3163	7907	214	1.57(1.32-1.78)	
PCB-104											
325.8804	25:44	25:44	0	1.001	2002049	441777	94	235	4700		
327.8775	25:44	25:44	0	1.001	1282382	285979	23	57	12434	1.56(1.32-1.78)	
PCB-96											
325.8804	26:06	26:06	0	1.015	2147147	476785	94	235	5072		
327.8775	26:06	26:06	0	1.015	1358141	299861	23	57	13037	1.58(1.32-1.78)	
PCB-103											
325.8804	28:02	28:02	0	1.091	1722221	373034	94	235	3968		
327.8775	28:02	28:02	0	1.091	1088439	234914	23	57	10214	1.58(1.32-1.78)	
PCB-94											
325.8804	28:16	28:16	0	1.100	1440579	300531	94	235	3197		
327.8775	28:16	28:16	0	1.100	913353	193140	23	57	8397	1.58(1.32-1.78)	
PCB-95											
325.8804	28:42	28:42	0	1.117	1607755	343000	94	235	3649		
327.8775	28:42	28:42	0	1.117	1006016	206595	23	57	8982	1.60(1.32-1.78)	
PCB-93											
325.8804	28:55	28:55	0	1.125	3264013	676706	94	235	7199		
327.8775	28:55	28:55	0	1.125	2062495	415448	23	57	18063	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:55	28:55	0	1.125	3264013	676706	94	235	7199		
327.8775	28:55	28:55	0	1.125	2062495	415448	23	57	18063	1.58(1.32-1.78)	
PCB-98											
325.8804	29:04	29:04	0	1.131	3256110	409179	94	235	4353		
327.8775	29:04	29:04	0	1.131	2038639	254415	23	57	11062	1.60(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:04	29:04	0	1.131	3256110	409179	94	235	4353		
327.8775	29:04	29:04	0	1.131	2038639	254415	23	57	11062	1.60(1.32-1.78)	
PCB-88											
325.8804	29:33	29:33	0	1.150	3119379	336432	94	235	3579		
327.8775	29:33	29:33	0	1.150	1954225	216839	23	57	9428	1.60(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	0	1.150	3119379	336432	94	235	3579		
327.8775	29:33	29:33	0	1.150	1954225	216839	23	57	9428	1.60(1.32-1.78)	
PCB-84											
325.8804	29:47	29:47	0	1.159	1403716	276200	94	235	2938		
327.8775	29:47	29:47	0	1.159	893697	179012	23	57	7783	1.57(1.32-1.78)	
PCB-89											
325.8804	30:16	30:16	0	1.177	1487509	302422	94	235	3217		
327.8775	30:16	30:16	0	1.177	936577	193670	23	57	8420	1.59(1.32-1.78)	
PCB-121											
325.8804	30:41	30:41	0	1.194	2575538	528901	94	235	5627		
327.8775	30:40	30:41	-1	1.193	1568944	313817	23	57	13644	1.64(1.32-1.78)	
PCB-92											
325.8804	31:03	31:03	0	0.857	1674884	341536	94	235	3633		
327.8775	31:03	31:03	0	0.857	1049464	214906	23	57	9344	1.60(1.32-1.78)	
PCB-90											
325.8804	31:37	31:37	0	1.230	5585380	789224	94	235	8396		
327.8775	31:37	31:37	0	1.230	3541317	504402	23	57	21931	1.58(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:37	31:37	0	1.230	5585380	789224	94	235	8396		
327.8775	31:37	31:37	0	1.230	3541317	504402	23	57	21931	1.58(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:37	31:37	0	1.230	5585380	789224	94	235	8396		
327.8775	31:37	31:37	0	1.230	3541317	504402	23	57	21931	1.58(1.32-1.78)	
PCB-83											
325.8804	32:13	32:13	0	1.253	3412625	423953	94	235	4510		
327.8775	32:13	32:13	0	1.253	2114439	269337	23	57	11710	1.61(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:13	32:13	0	1.253	3412625	423953	94	235	4510		
327.8775	32:13	32:13	0	1.253	2114439	269337	23	57	11710	1.61(1.32-1.78)	
PCB-112											
325.8804	32:20	32:20	0	1.258	2670198	518656	94	235	5518		
327.8775	32:20	32:20	0	1.258	1689200	325711	23	57	14161	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-85											
325.8804	33:25	33:25	0	1.300	6097296	729554	94	235	7761		
327.8775	33:25	33:25	0	1.300	3797496	450828	23	57	19601	1.61(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:25	33:25	0	1.300	6097296	729554	94	235	7761		
327.8775	33:25	33:25	0	1.300	3797496	450828	23	57	19601	1.61(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:25	33:25	0	1.300	6097296	729554	94	235	7761		
327.8775	33:25	33:25	0	1.300	3797496	450828	23	57	19601	1.61(1.32-1.78)	
PCB-110											
325.8804	33:37	33:37	0	1.308	4560996	550778	94	235	5859		
327.8775	33:37	33:37	0	1.308	2902255	349589	23	57	15200	1.57(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:37	33:37	0	1.308	4560996	550778	94	235	5859		
327.8775	33:37	33:37	0	1.308	2902255	349589	23	57	15200	1.57(1.32-1.78)	
PCB-82											
325.8804	33:55	33:55	0	1.320	1613453	302761	94	235	3221		
327.8775	33:55	33:55	0	1.320	1045938	202821	23	57	8818	1.54(1.32-1.78)	
PCB-111											
325.8804	34:19	34:19	0	1.335	2335173	456313	94	235	4854		
327.8775	34:19	34:19	0	1.335	1489923	289166	23	57	12572	1.57(1.32-1.78)	
PCB-120											
325.8804	34:47	34:47	0	1.353	2885764	550612	94	235	5858		
327.8775	34:47	34:47	0	1.353	1811468	356079	23	57	15482	1.59(1.32-1.78)	
PCB-108											
325.8804	35:55	35:55	0	1.397	6579703	1269304	3761	9402	337		
327.8775	35:55	35:55	0	1.397	4126374	791233	2810	7025	282	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:55	35:55	0	1.397	6579703	1269304	3761	9402	337		
327.8775	35:55	35:55	0	1.397	4126374	791233	2810	7025	282	1.59(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.406	3598917	640109	3761	9402	170		
327.8775	36:10	36:09	1	1.407	2298498	411041	2810	7025	146	1.57(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.001	3161819	607282	3761	9402	161		
327.8775	36:16	36:16	0	1.001	1872173	389063	2810	7025	138	1.69(1.32-1.78)	
PCB-106											
325.8804	36:23	36:23	0	1.004	3045625	627785	3761	9402	167		
327.8775	36:23	36:23	0	1.004	2094481	397038	2810	7025	141	1.45(1.32-1.78)	
PCB-118											
325.8804	36:36	36:36	0	1.001	3685248	687971	3761	9402	183		
327.8775	36:36	36:36	0	1.001	2330760	436085	2810	7025	155	1.58(1.32-1.78)	
PCB-122											
325.8804	36:56	36:56	0	1.010	2884618	554457	3761	9402	147		
327.8775	36:56	36:56	0	1.010	1824827	362406	2810	7025	129	1.58(1.32-1.78)	
PCB-114											
325.8804	37:08	37:08	0	1.001	3265805	595189	3761	9402	158		
327.8775	37:08	37:08	0	1.001	2041722	374140	2810	7025	133	1.60(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	3371548	625558	3761	9402	166		
327.8775	37:46	37:46	0	1.001	2154843	397116	2810	7025	141	1.56(1.32-1.78)	
PCB-127											
325.8804	39:15	39:15	0	1.040	3465005	627477	3761	9402	167		
327.8775	39:15	39:15	0	1.040	2177761	382258	2810	7025	136	1.59(1.32-1.78)	
PCB-126											
325.8804	40:52	40:52	0	1.001	3292748	549992	3761	9402	146		
327.8775	40:52	40:52	0	1.001	2119092	353738	2810	7025	126	1.55(1.32-1.78)	
PCB-155L											
371.8817	31:23	31:23	0	0.791	3257270	660505	70	175	9436		
373.8788	31:22	31:23	-1	0.790	2529655	513681	46	115	11167	1.29(1.05-1.43)	
PCB-153L											
371.8817	38:27	38:27	0	0.901	1935812	371807	2444	6110	152		
373.8788	38:27	38:27	0	0.901	1481729	282805	2169	5422	130	1.31(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		3729250	717137	2444	6110	293		
373.8788	39:42	39:41	1		2865439	542376	2169	5422	250	1.30(1.05-1.43)	
PCB-159L											
371.8817	41:56	41:56	0	0.982	4385171	843891	2444	6110	345		
373.8788	41:56	41:56	0	0.982	3401457	660859	2169	5422	305	1.29(0.00-0.00)	
PCB-167L											
371.8817	42:42	42:42	0	1.076	4672513	879045	2444	6110	360		
373.8788	42:42	42:42	0	1.076	3656608	691360	2169	5422	319	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156L											
371.8817	43:51	43:51	0	1.105	9033854	1211285	2444	6110	496		
373.8788	43:51	43:51	0	1.105	7015029	942510	2169	5422	435	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:51	43:51	0	1.105	9033854	1211285	2444	6110	496		
373.8788	43:51	43:51	0	1.105	7015029	942510	2169	5422	435	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:05	47:05	0	1.186	4570629	851282	2444	6110	348		
373.8788	47:05	47:05	0	1.186	3575255	676718	2169	5422	312	1.28(1.05-1.43)	
PCB-155											
359.8415	31:25	31:25	0	1.001	1551501	320228	14	35	22873		
361.8385	31:24	31:25	-1	1.000	1205695	248802	15	37	16587	1.29(1.05-1.43)	
PCB-152											
359.8415	31:36	31:36	0	1.007	1531535	309585	14	35	22113		
361.8385	31:36	31:36	0	1.007	1221330	244311	15	37	16287	1.25(1.05-1.43)	
PCB-150											
359.8415	31:46	31:46	0	1.012	1647132	340356	14	35	24311		
361.8385	31:46	31:46	0	1.012	1285993	261802	15	37	17453	1.28(1.05-1.43)	
PCB-136											
359.8415	32:08	32:08	0	1.024	1607291	324088	14	35	23149		
361.8385	32:08	32:08	0	1.024	1251510	253361	15	37	16891	1.28(1.05-1.43)	
PCB-145											
359.8415	32:25	32:25	0	1.033	1563820	302118	14	35	21580		
361.8385	32:25	32:25	0	1.033	1210113	244554	15	37	16304	1.29(1.05-1.43)	
PCB-148											
359.8415	33:57	33:57	0	1.082	1231487	249307	14	35	17808		
361.8385	33:57	33:57	0	1.082	944768	189380	15	37	12625	1.30(1.05-1.43)	
PCB-135											
359.8415	34:32	34:32	0	1.100	2316873	263391	14	35	18814		Ma
361.8385	34:32	34:32	0	1.100	1875309	209193	15	37	13946	1.24(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:32	34:32	0	1.100	2316873	263391	14	35	18814		Ma
361.8385	34:32	34:32	0	1.100	1875309	209193	15	37	13946	1.24(1.05-1.43)	M
PCB-154											
359.8415	34:47	34:47	0	1.108	1330712	264146	14	35	18868		
361.8385	34:47	34:47	0	1.108	1040783	204861	15	37	13657	1.28(1.05-1.43)	
PCB-144											
359.8415	35:06	35:06	0	1.118	1246158	243699	14	35	17407		
361.8385	35:06	35:06	0	1.118	986173	193270	15	37	12885	1.26(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	3933253	778924	1008	2520	773		
361.8385	35:27	35:27	0	1.130	3133867	619812	785	1962	790	1.26(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	3933253	778924	1008	2520	773		
361.8385	35:27	35:27	0	1.130	3133867	619812	785	1962	790	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-134											
359.8415	35:45	35:45	0	1.139	3601502	377426	1008	2520	374		
361.8385	35:45	35:45	0	1.139	2838994	290659	785	1962	370	1.27(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:45	35:45	0	1.139	3601502	377426	1008	2520	374		
361.8385	35:45	35:45	0	1.139	2838994	290659	785	1962	370	1.27(1.05-1.43)	
PCB-139											
359.8415	36:04	36:04	0	1.149	3933590	687129	1008	2520	682		
361.8385	36:04	36:04	0	1.149	3105104	548671	785	1962	699	1.27(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:04	36:04	0	1.149	3933590	687129	1008	2520	682		
361.8385	36:04	36:04	0	1.149	3105104	548671	785	1962	699	1.27(1.05-1.43)	
PCB-131											
359.8415	36:15	36:15	0	1.155	1687175	334025	1008	2520	331		M
361.8385	36:15	36:15	0	1.155	1331753	269140	785	1962	343	1.27(1.05-1.43)	M
PCB-142											
359.8415	36:24	36:24	0	1.160	1733270	337603	1008	2520	335		M
361.8385	36:24	36:24	0	1.160	1381885	271204	785	1962	345	1.25(1.05-1.43)	M
PCB-132											
359.8415	36:43	36:43	0	1.170	1652199	321485	1008	2520	319		
361.8385	36:43	36:43	0	1.170	1326992	253704	785	1962	323	1.25(1.05-1.43)	
PCB-133											
359.8415	37:14	37:14	0	1.186	1821701	339181	1008	2520	336		
361.8385	37:14	37:14	0	1.186	1424291	267937	785	1962	341	1.28(1.05-1.43)	
PCB-165											
359.8415	37:37	37:37	0	0.881	2363040	453975	1008	2520	450		
361.8385	37:38	37:37	1	0.881	1823861	353139	785	1962	450	1.30(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	0	0.887	2148749	415011	1008	2520	412		
361.8385	37:52	37:52	-1	0.887	1696656	333062	785	1962	424	1.27(1.05-1.43)	
PCB-161											
359.8415	38:00	38:00	0	0.890	2621108	512234	1008	2520	508		
361.8385	38:00	38:00	0	0.890	2044964	396454	785	1962	505	1.28(1.05-1.43)	
PCB-153											
359.8415	38:30	38:30	0	0.901	4983489	714786	1008	2520	709		
361.8385	38:30	38:30	1	0.902	3961079	562837	785	1962	717	1.26(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:30	38:30	0	0.901	4983489	714786	1008	2520	709		
361.8385	38:30	38:30	1	0.902	3961079	562837	785	1962	717	1.26(1.05-1.43)	
PCB-141											
359.8415	38:41	38:41	0	0.906	1947775	364426	1008	2520	362		
361.8385	38:41	38:41	0	0.906	1513578	284802	785	1962	363	1.29(1.05-1.43)	
PCB-130											
359.8415	39:05	39:05	0	0.915	1601211	302566	1008	2520	300		
361.8385	39:05	39:05	0	0.915	1237434	240551	785	1962	306	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-137											
359.8415	39:18	39:18	0	0.920	1828119	355133	1008	2520	352		
361.8385	39:18	39:18	0	0.920	1470337	279527	785	1962	356	1.24(1.05-1.43)	
PCB-164											
359.8415	39:26	39:26	0	0.923	2355056	457987	1008	2520	454		
361.8385	39:25	39:26	-1	0.923	1845124	352711	785	1962	449	1.28(1.05-1.43)	
PCB-129											
359.8415	39:44	39:44	0	0.930	8427795	930274	1008	2520	923		M
361.8385	39:44	39:44	0	0.930	6682218	748596	785	1962	954	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:44	39:44	0	0.930	8427795	930274	1008	2520	923		M
361.8385	39:44	39:44	0	0.930	6682218	748596	785	1962	954	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:44	39:44	0	0.930	8427795	930274	1008	2520	923		M
361.8385	39:44	39:44	0	0.930	6682218	748596	785	1962	954	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:44	39:44	0	0.930	8427795	930274	1008	2520	923		M
361.8385	39:44	39:44	0	0.930	6682218	748596	785	1962	954	1.26(1.05-1.43)	M
PCB-158											
359.8415	40:07	40:07	0	0.939	2955869	553491	1008	2520	549		
361.8385	40:07	40:07	0	0.939	2363652	439507	785	1962	560	1.25(1.05-1.43)	
PCB-128											
359.8415	40:57	40:57	0	0.959	4466821	672295	1008	2520	667		
361.8385	40:57	40:57	0	0.959	3657844	530567	785	1962	676	1.22(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	4466821	672295	1008	2520	667		
361.8385	40:57	40:57	0	0.959	3657844	530567	785	1962	676	1.22(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.983	3137876	586838	1008	2520	582		
361.8385	41:58	41:58	0	0.983	2440665	455213	785	1962	580	1.29(1.05-1.43)	
PCB-162											
359.8415	42:15	42:15	0	0.990	2793137	511299	1008	2520	507		
361.8385	42:15	42:15	0	0.990	2253222	402492	785	1962	513	1.24(1.05-1.43)	
PCB-167											
359.8415	42:44	42:44	0	1.001	2586477	482486	1008	2520	479		
361.8385	42:44	42:44	0	1.001	2021689	384259	785	1962	490	1.28(1.05-1.43)	
PCB-156											
359.8415	43:53	43:53	0	1.001	4958599	660795	1008	2520	656		
361.8385	43:53	43:53	0	1.001	3979807	528989	785	1962	674	1.25(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:53	43:53	0	1.001	4958599	660795	1008	2520	656		
361.8385	43:53	43:53	0	1.001	3979807	528989	785	1962	674	1.25(1.05-1.43)	
PCB-169											
359.8415	47:06	47:06	0	1.001	2731112	460895	1008	2520	457		
361.8385	47:06	47:06	0	1.001	2127829	367226	785	1962	468	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:07	37:07	0	0.820	3390997	647639	106	265	6110		
407.8398	37:06	37:07	-1	0.820	3196582	614748	52	130	11822	1.06(0.89-1.21)	
PCB-178L											
405.8428	40:10	40:10	0	0.888	1268374	239712	106	265	2261		
407.8398	40:09	40:10	-1	0.887	1185767	225896	52	130	4344	1.07(0.89-1.21)	
PCB-180L											
405.8428	45:15	45:15	0		2568508	474635	106	265	4478		
407.8398	45:15	45:15	0		2409050	448677	52	130	8628	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:30	46:30	0	1.028	2144599	393977	106	265	3717		
407.8398	46:30	46:30	0	1.028	2011990	367812	52	130	7073	1.07(0.89-1.21)	
PCB-189L											
405.8428	49:37	49:37	0	1.096	5177539	911013	1628	4070	560		
407.8398	49:36	49:37	-1	1.096	4893238	882502	1626	4065	543	1.06(0.89-1.21)	
PCB-188											
393.8025	37:08	37:08	0	1.001	1906918	363165	2	5	181583		
395.7995	37:08	37:08	0	1.001	1799722	344515	9	22	38279	1.06(0.89-1.21)	
PCB-179											
393.8025	37:28	37:28	0	1.010	1909337	379833	2	5	189917		
395.7995	37:28	37:28	0	1.010	1824607	355678	9	22	39520	1.05(0.89-1.21)	
PCB-184											
393.8025	38:00	38:00	0	1.024	1892683	358370	2	5	179185		
395.7995	38:00	38:00	0	1.024	1821815	348626	9	22	38736	1.04(0.89-1.21)	
PCB-176											
393.8025	38:21	38:21	0	1.033	1717852	328373	2	5	164187		
395.7995	38:21	38:21	0	1.033	1619606	309049	9	22	34339	1.06(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	0	1.045	2090399	402372	2	5	201186		
395.7995	38:48	38:48	0	1.045	1961117	370019	9	22	41113	1.07(0.89-1.21)	
PCB-178											
393.8025	40:11	40:11	0	1.083	1251827	247537	2	5	123769		
395.7995	40:11	40:11	-1	1.083	1188658	225408	9	22	25045	1.05(0.89-1.21)	
PCB-175											
393.8025	40:49	40:49	0	1.100	1313506	246290	2	5	123145		
395.7995	40:48	40:49	-1	1.100	1256385	243837	9	22	27093	1.05(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	1539415	294124	2	5	147062		
395.7995	41:05	41:05	0	1.107	1483819	280053	9	22	31117	1.04(0.89-1.21)	
PCB-182											
393.8025	41:18	41:18	0	1.113	1357585	259715	2	5	129858		
395.7995	41:18	41:18	0	1.113	1289451	251200	9	22	27911	1.05(0.89-1.21)	
PCB-183											
393.8025	41:42	41:42	0	1.124	2628001	274235	2	5	137118		Ma
395.7995	41:42	41:42	0	1.124	2486532	260035	9	22	28893	1.06(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											Ma
393.8025	41:42	41:42	0	1.124	2628001	274235	2	5	137118		M
395.7995	41:42	41:42	0	1.124	2486532	260035	9	22	28893	1.06(0.89-1.21)	
PCB-174											
393.8025	41:56	41:56	0	1.130	1382890	268892	2	5	134446		
395.7995	41:56	41:56	0	1.130	1298958	249998	9	22	27778	1.06(0.89-1.21)	
PCB-177											
393.8025	42:22	42:22	0	1.142	1317062	238481	2	5	119241		
395.7995	42:22	42:22	0	1.142	1316514	232510	9	22	25834	1.00(0.89-1.21)	
PCB-181											
393.8025	42:45	42:45	0	1.152	1309193	249662	2	5	124831		
395.7995	42:45	42:45	0	1.152	1211833	231137	9	22	25682	1.08(0.89-1.21)	
PCB-171											
393.8025	42:59	42:59	0	1.158	2467648	409790	2	5	204895		
395.7995	42:59	42:59	0	1.158	2337021	379542	9	22	42171	1.06(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:59	42:59	0	1.158	2467648	409790	2	5	204895		
395.7995	42:59	42:59	0	1.158	2337021	379542	9	22	42171	1.06(0.89-1.21)	
PCB-172											
393.8025	44:37	44:37	0	0.899	1200782	233906	2	5	116953		
395.7995	44:37	44:37	0	0.899	1147181	214947	9	22	23883	1.05(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	0	0.905	1936935	362962	2	5	181481		
395.7995	44:54	44:54	0	0.905	1821207	344791	9	22	38310	1.06(0.89-1.21)	
PCB-180											
393.8025	45:14	45:14	0	0.912	3302667	423702	2	5	211851		
395.7995	45:14	45:14	-1	0.911	3077873	392513	9	22	43613	1.07(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	3302667	423702	2	5	211851		
395.7995	45:14	45:14	-1	0.911	3077873	392513	9	22	43613	1.07(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.919	1843223	351659	2	5	175830		
395.7995	45:37	45:37	0	0.919	1747325	324624	9	22	36069	1.05(0.89-1.21)	
PCB-170											
393.8025	46:32	46:32	0	0.938	1278454	228946	2	5	114473		
395.7995	46:32	46:32	0	0.938	1225630	220603	9	22	24511	1.04(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	1842203	338530	2	5	169265		
395.7995	47:02	47:02	0	0.948	1739942	319162	9	22	35462	1.06(0.89-1.21)	
PCB-189											
393.8025	49:38	49:38	0	1.000	2516603	449894	787	1967	572		
395.7995	49:38	49:38	0	1.000	2412128	445339	465	1162	958	1.04(0.89-1.21)	
PCB-202L											
439.8038	42:28	42:28	0	0.821	2255092	422922	39	97	10844		
441.8008	42:29	42:28	1	0.821	2499196	471635	38	95	12411	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:43	51:43	0		3362707	620941	250	625	2484		
441.8008	51:43	51:43	0		3648392	674097	251	627	2686	0.92(0.76-1.02)	
PCB-205L											
439.8038	52:11	52:11	0	1.009	3962585	704738	250	625	2819		
441.8008	52:11	52:11	0	1.009	4374908	776279	251	627	3093	0.91(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	1251662	241380	51	127	4733		
429.7606	42:29	42:29	0	1.001	1402589	268049	72	180	3723	0.89(0.76-1.02)	
PCB-201											
427.7635	43:25	43:25	0	1.022	1147960	212934	51	127	4175		
429.7606	43:25	43:25	0	1.022	1271154	239345	72	180	3324	0.90(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	1221595	229432	51	127	4499		
429.7606	44:05	44:05	0	1.038	1340945	251734	72	180	3496	0.91(0.76-1.02)	
PCB-197											
427.7635	44:19	44:19	0	1.044	1331905	249833	51	127	4899		
429.7606	44:19	44:19	0	1.044	1459028	274266	72	180	3809	0.91(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	1181192	228255	51	127	4476		
429.7606	44:25	44:25	0	1.046	1280025	253295	72	180	3518	0.92(0.76-1.02)	
PCB-198											
427.7635	47:12	47:12	0	1.112	1983914	250914	51	127	4920		
429.7606	47:11	47:12	-1	1.111	2213778	275523	72	180	3827	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.112	1983914	250914	51	127	4920		
429.7606	47:11	47:12	-1	1.111	2213778	275523	72	180	3827	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.917	905436	170211	51	127	3337		
429.7606	47:53	47:53	0	0.917	987246	184071	72	180	2557	0.92(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	0	0.921	1102302	203152	51	127	3983		
429.7606	48:05	48:05	0	0.921	1187278	216676	72	180	3009	0.93(0.76-1.02)	
PCB-195											
427.7635	49:23	49:23	0	0.946	1635171	296266	472	1180	628		
429.7606	49:23	49:23	0	0.946	1796776	331167	438	1095	756	0.91(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.991	1877668	346067	472	1180	733		
429.7606	51:44	51:44	0	0.991	2089752	377920	438	1095	863	0.90(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	0	1.000	2116332	381152	472	1180	808		
429.7606	52:13	52:13	0	1.000	2361758	425228	438	1095	971	0.90(0.76-1.02)	
PCB-208L											
473.7648	49:09	49:09	0	0.950	2989638	548455	593	1482	925		
475.7619	49:09	49:09	0	0.950	3691137	673270	833	2082	808	0.81(0.65-0.89)	

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-206L											
473.7648	53:57	53:57	0	1.043	2206564	390041	593	1482	658		
475.7619	53:57	53:57	0	1.043	2697378	485236	833	2082	583	0.82(0.65-0.89)	
PCB-208											
461.7246	49:10	49:10	0	1.001	1674736	306423	503	1257	609		
463.7216	49:10	49:10	0	1.001	2099856	394691	982	2455	402	0.80(0.65-0.89)	
PCB-207											
461.7246	50:05	50:05	0	1.019	1731554	322149	503	1257	640		
463.7216	50:05	50:05	0	1.019	2146967	396465	982	2455	404	0.81(0.65-0.89)	
PCB-206											
461.7246	53:58	53:58	0	1.000	1363275	241413	503	1257	480		M
463.7216	53:58	53:58	0	1.000	1761287	313621	982	2455	319	0.77(0.65-0.89)	M
PCB-209L											
507.7258	55:34	55:34	0	1.074	1960174	329111	112	280	2938		
509.7229	55:34	55:34	0	1.074	2763117	486124	68	170	7149	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:36	55:36	0	1.000	1086029	181678	83	207	2189		
497.6826	55:36	55:36	0	1.000	1517711	260666	31	77	8409	0.72(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

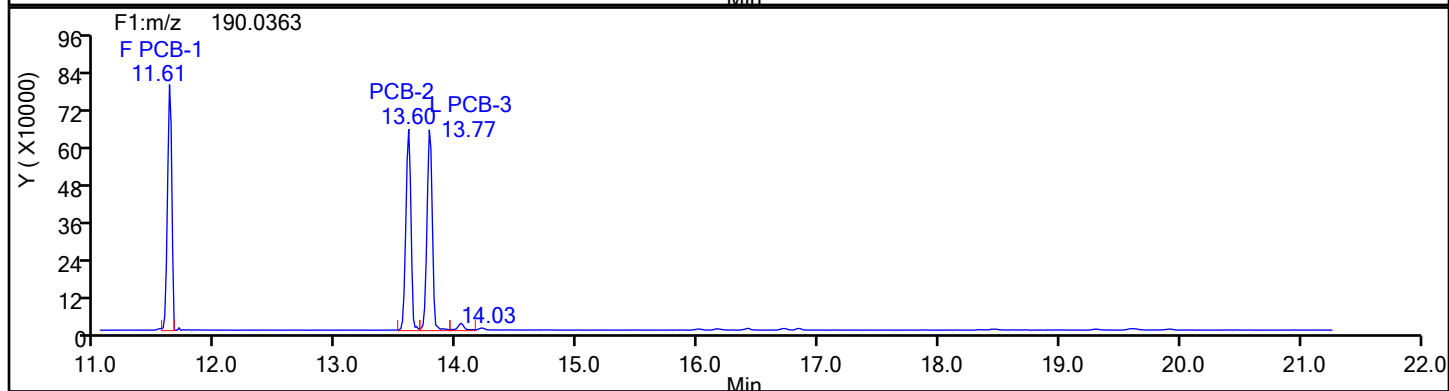
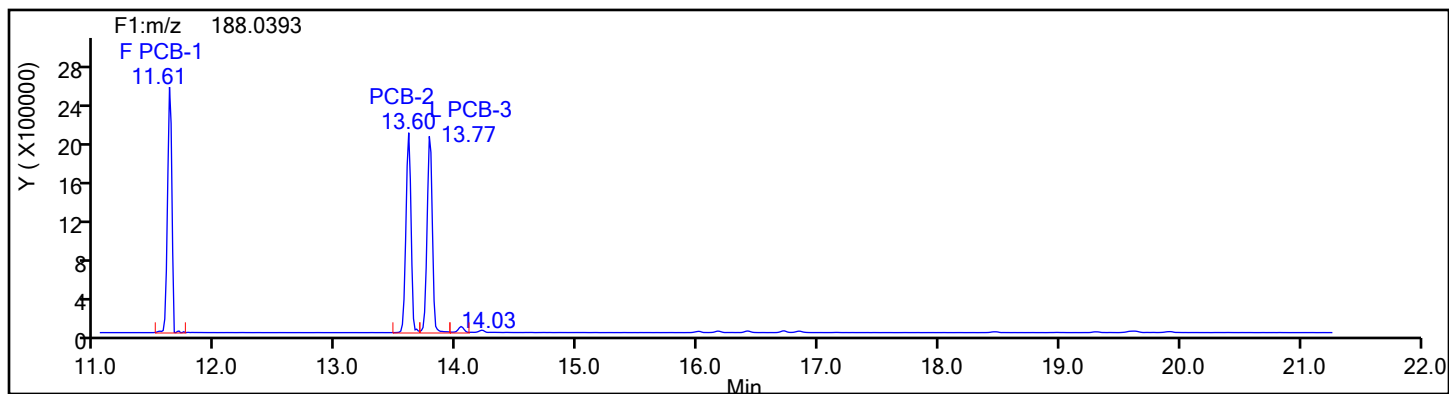
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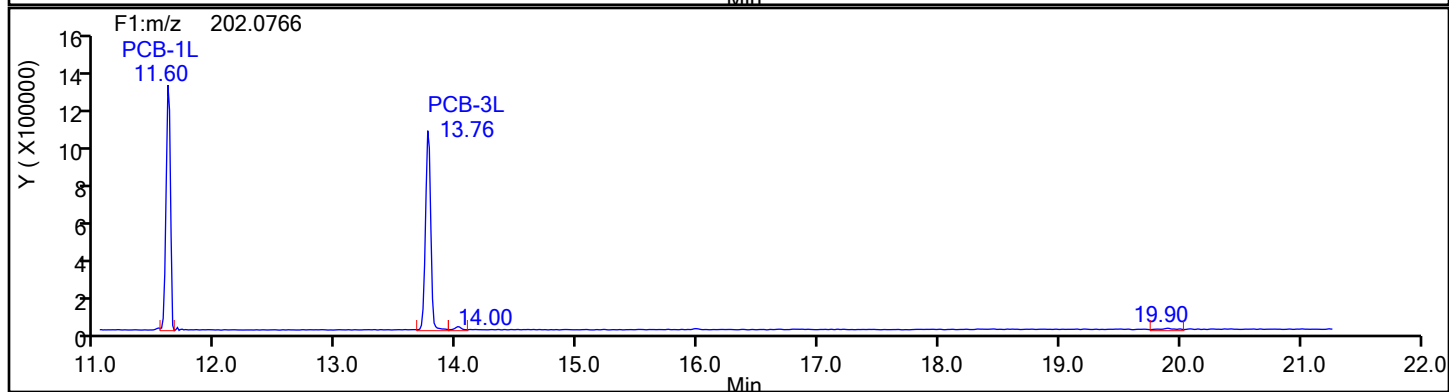
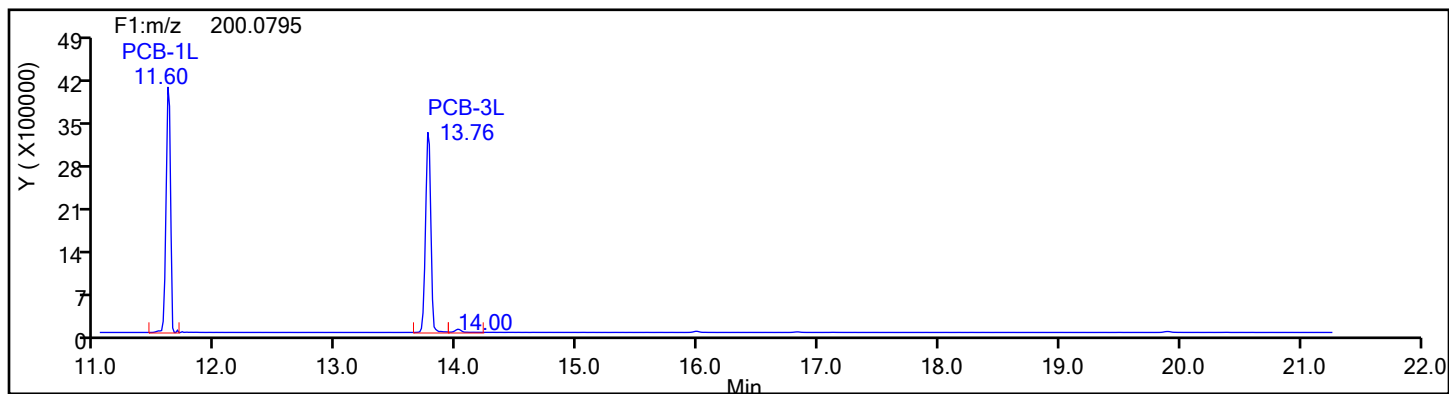
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Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1



MoPCB F1 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

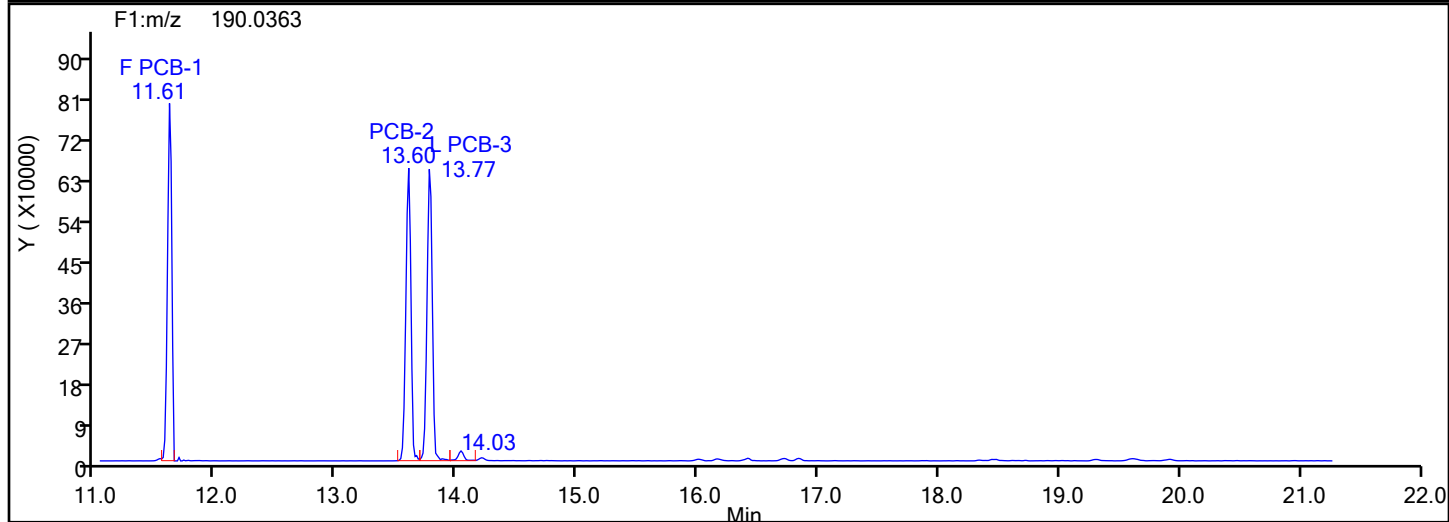
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Worklist#: 87130

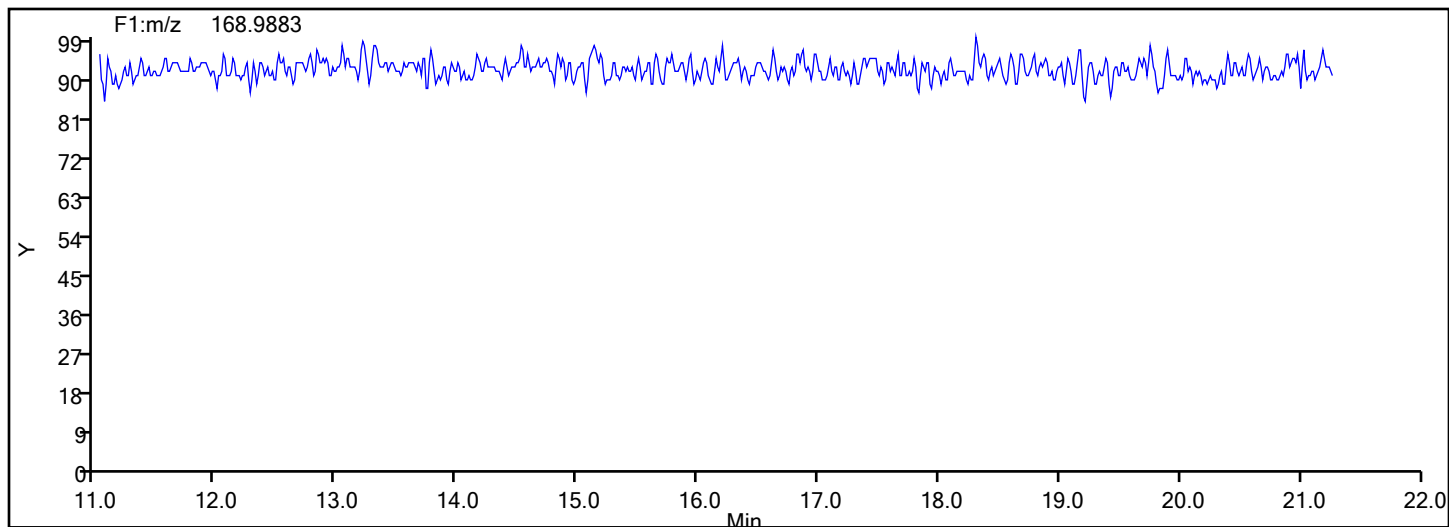
Sample Line#: 4

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

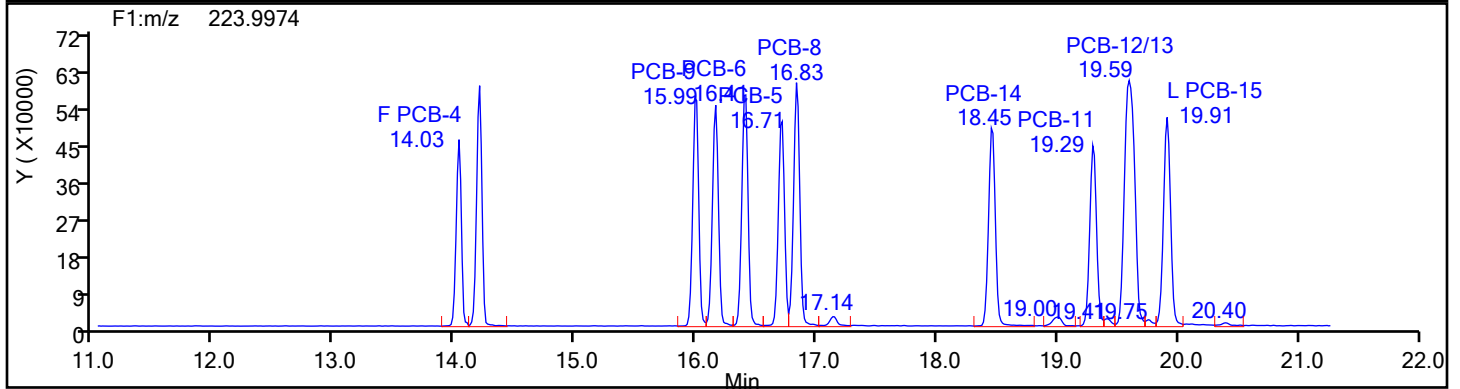
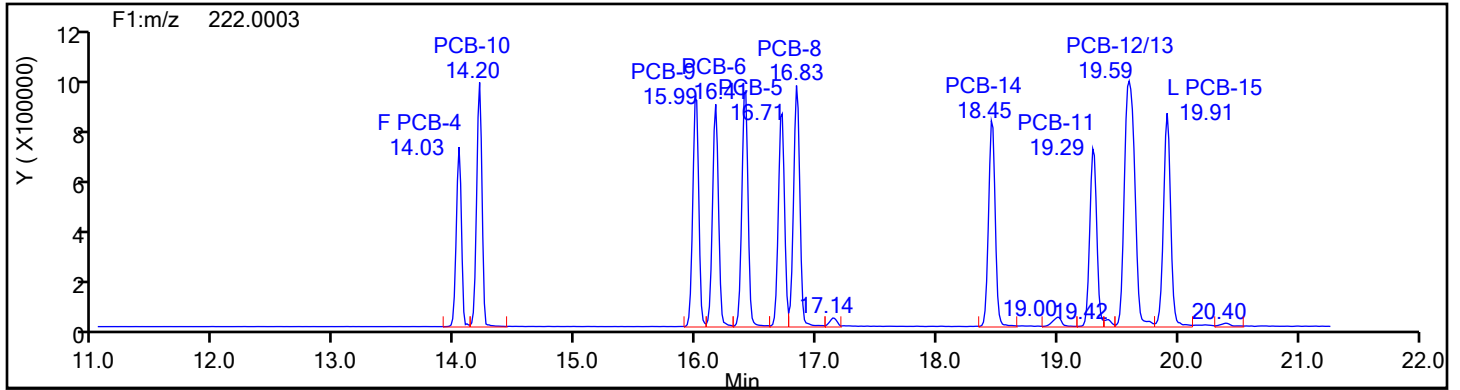
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Sample Line#: 4

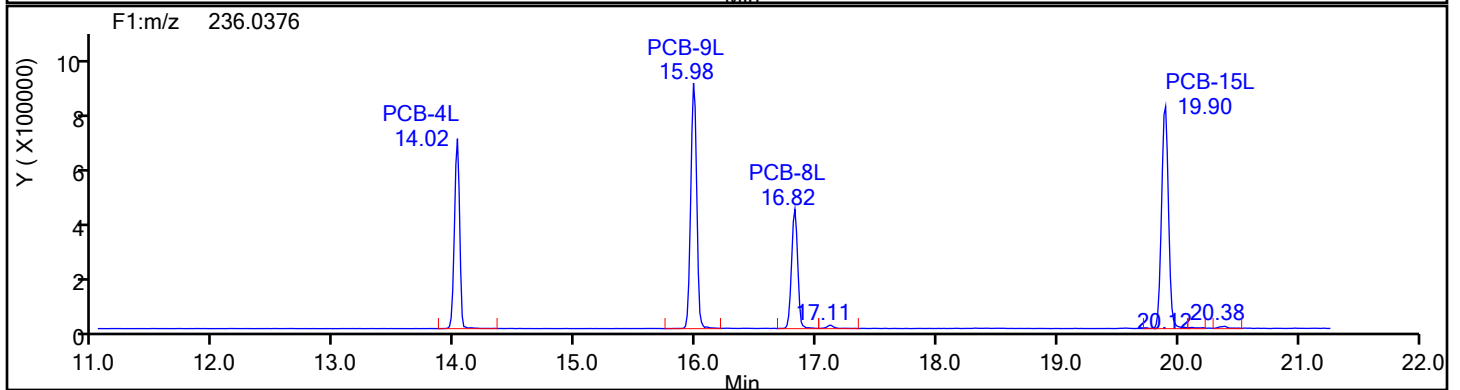
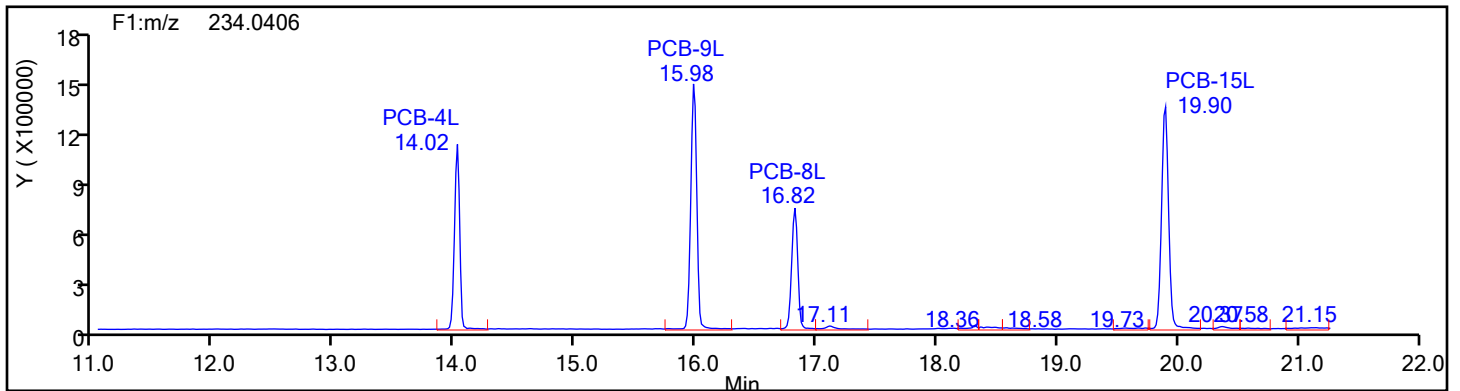
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

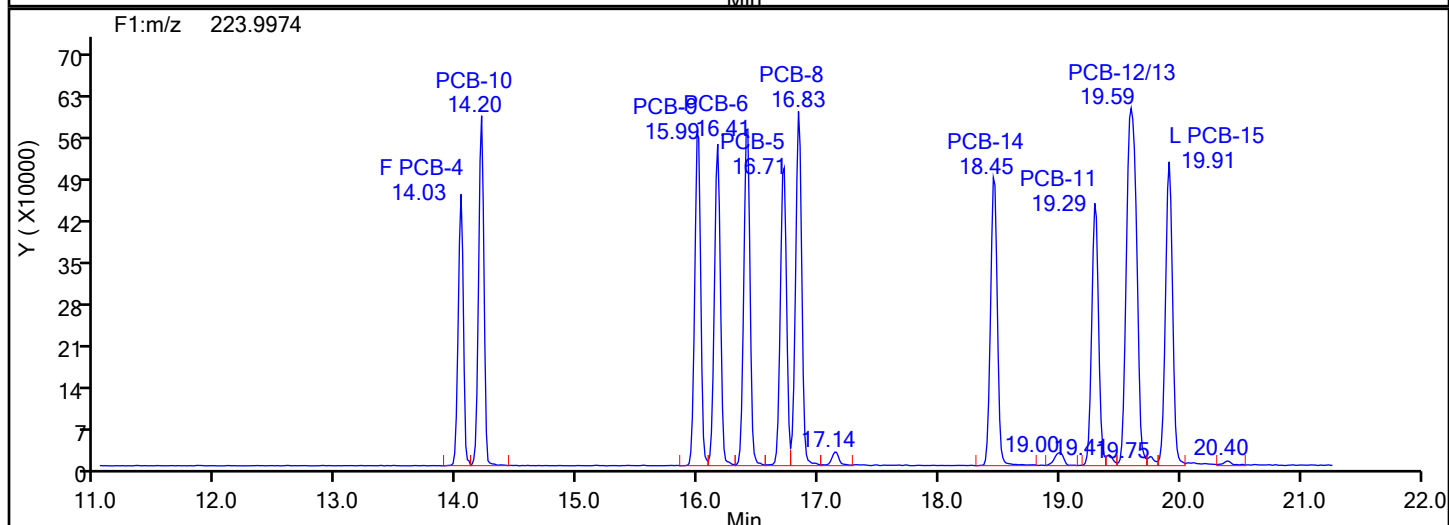
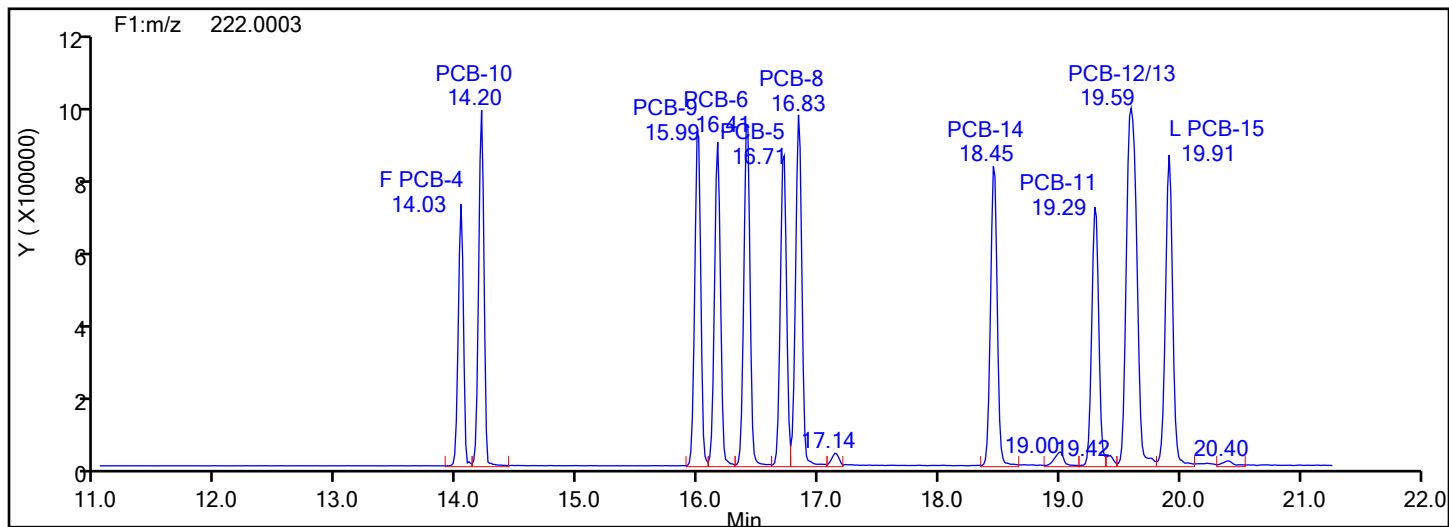
Worklist#: 87130

Sample Line#: 4

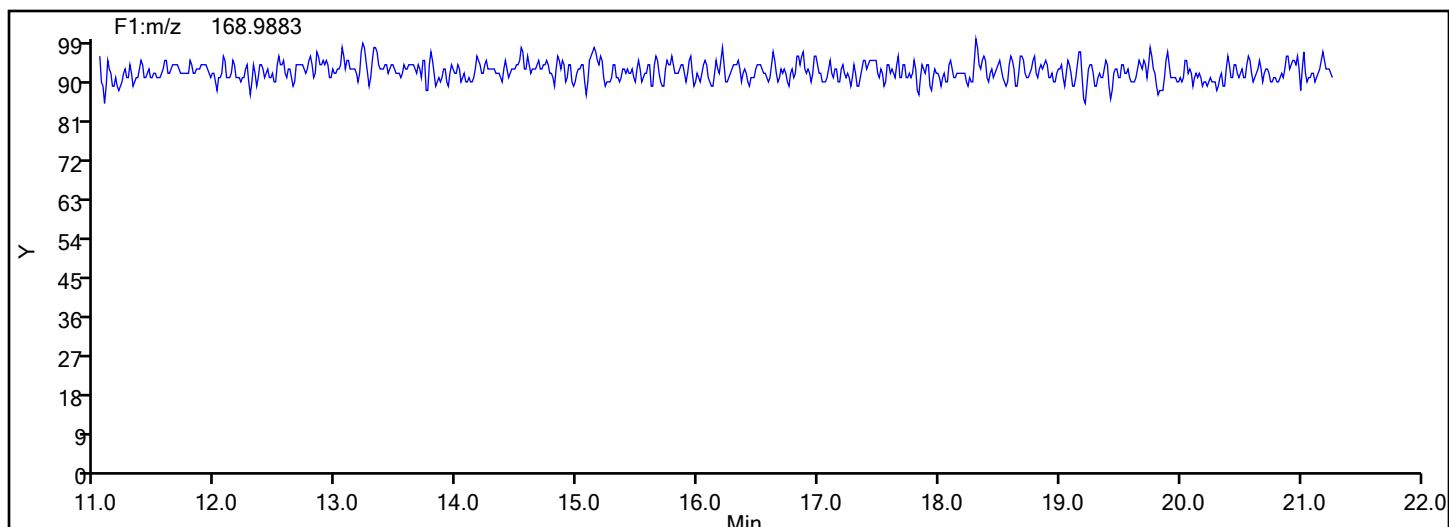
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



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Injection Vol: 1.0 ul

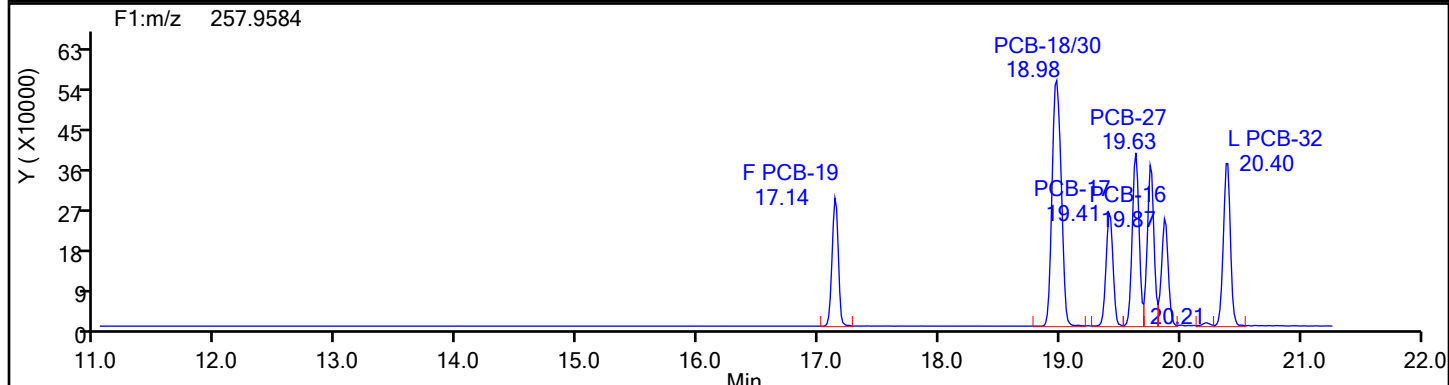
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

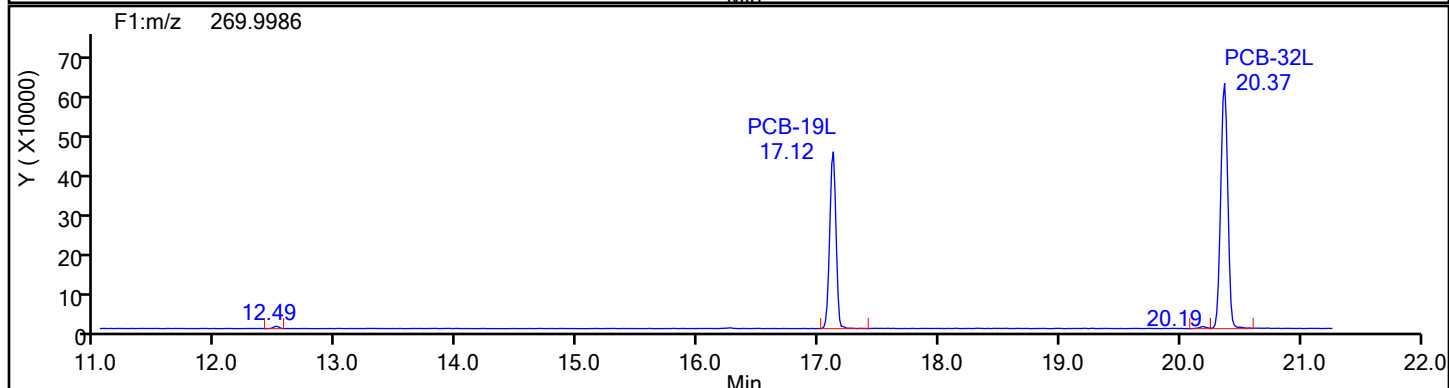
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Column Dia: 0.25 mm

TriPCB F1

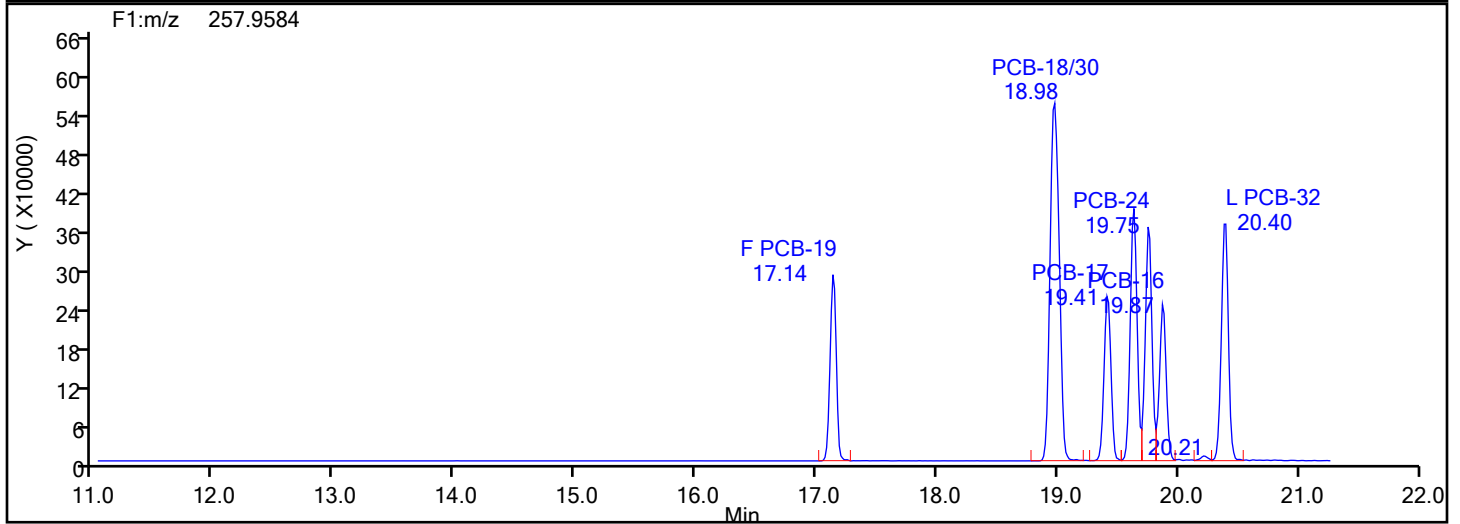
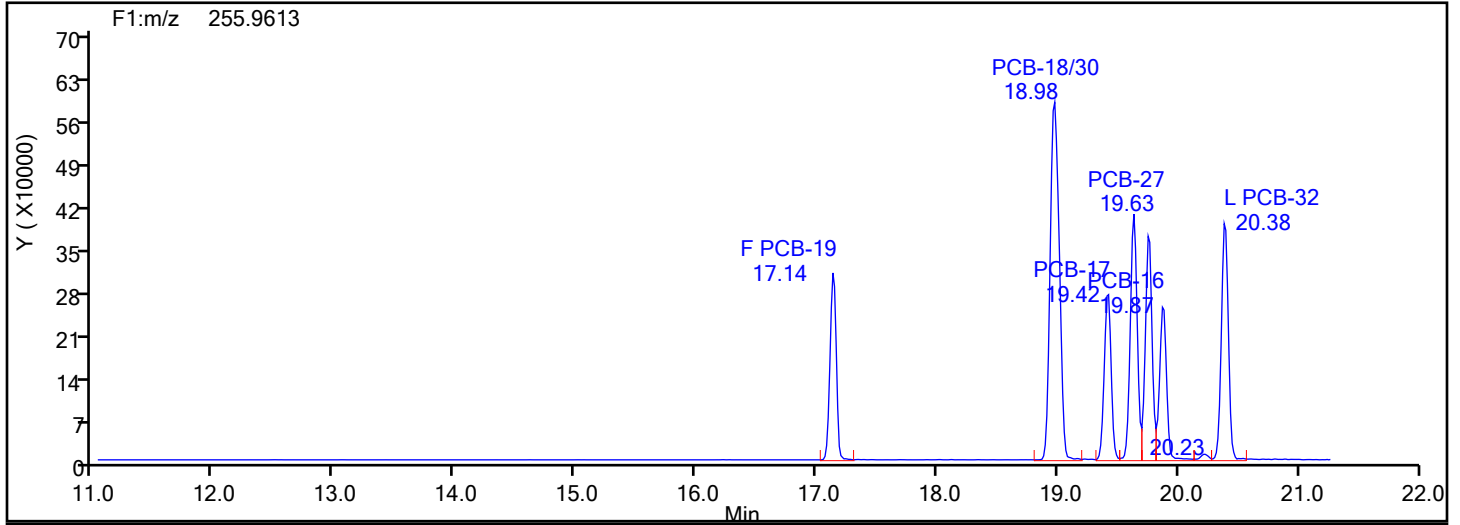


TriPCB F1 Standards

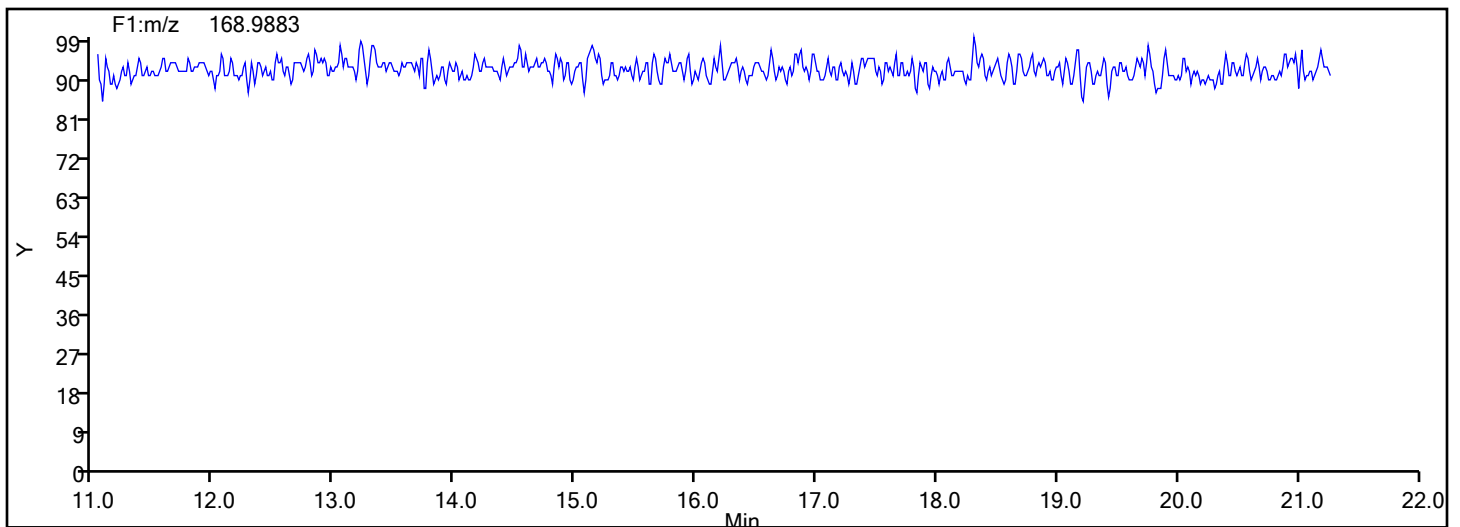


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

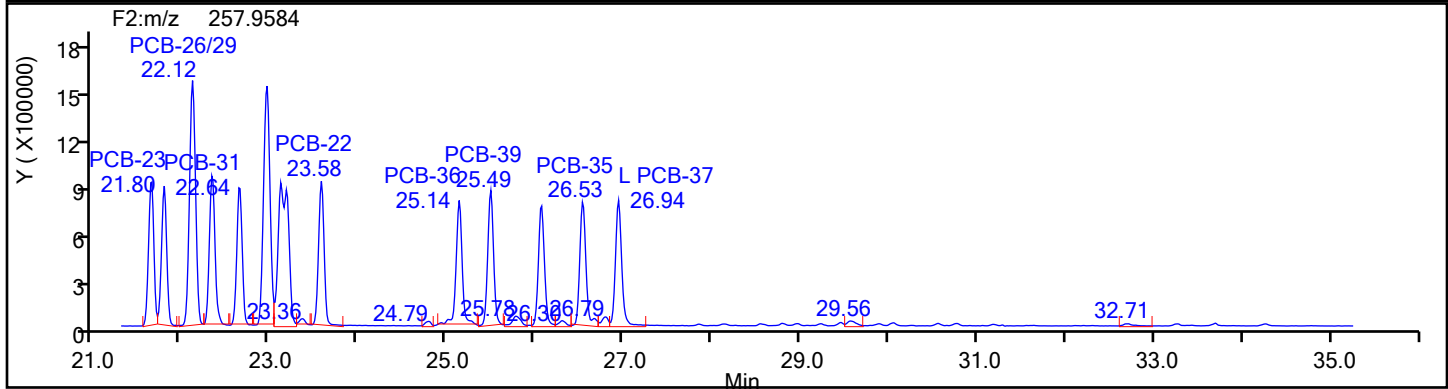
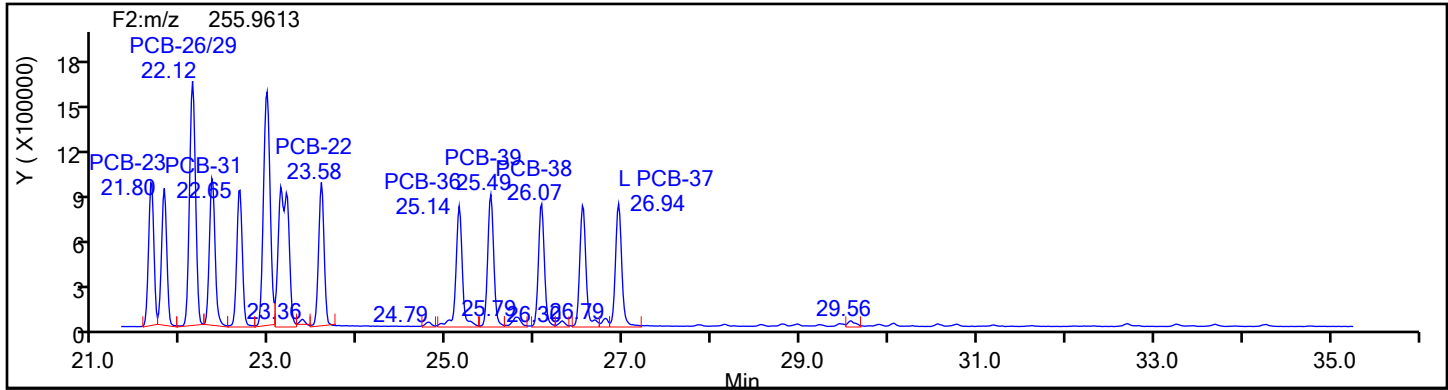
Worklist#: 87130

Sample Line#: 4

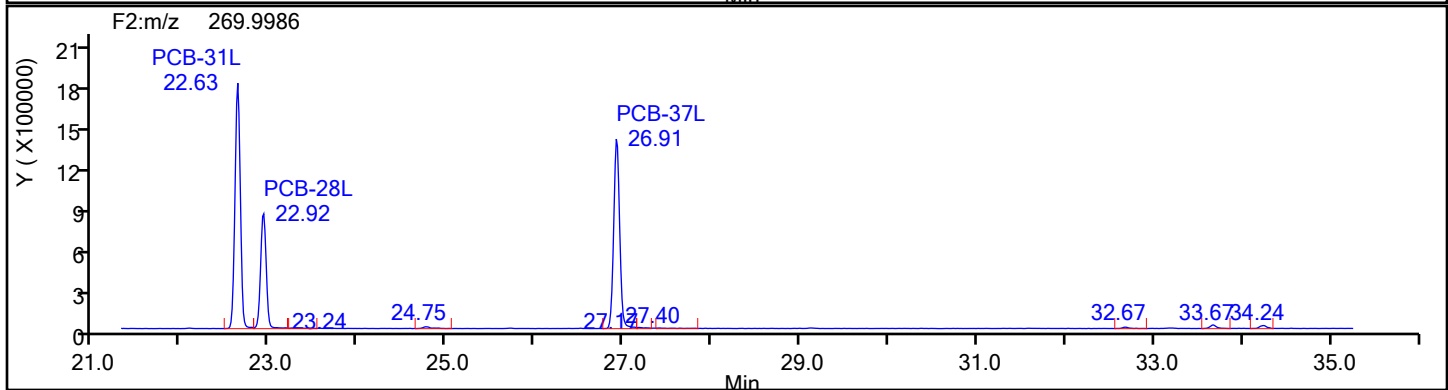
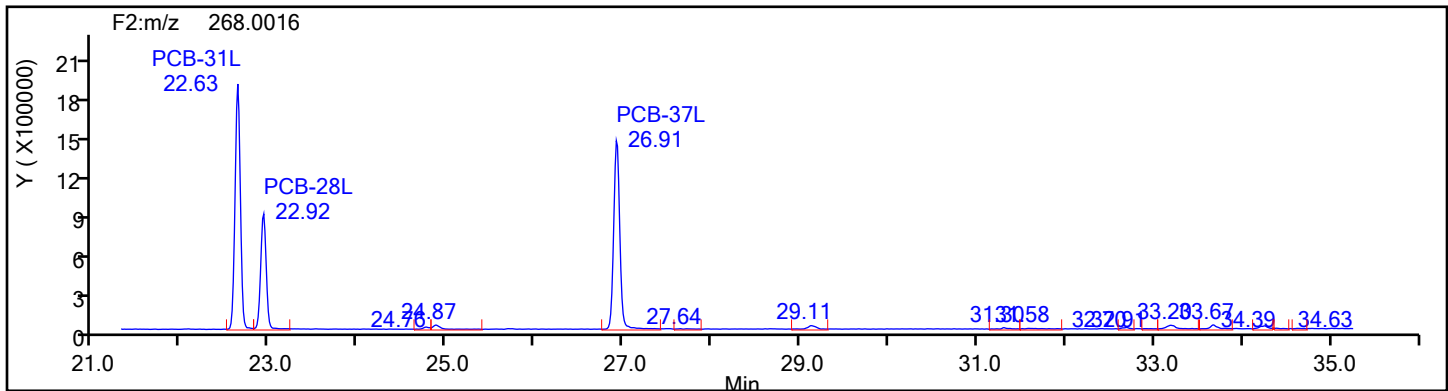
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

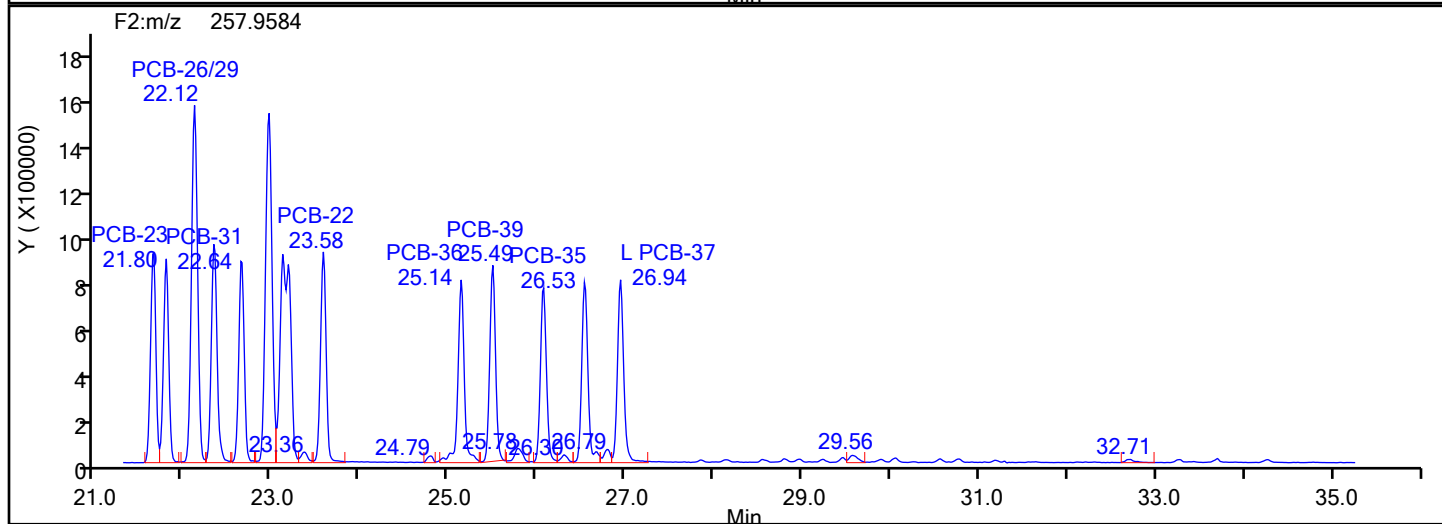
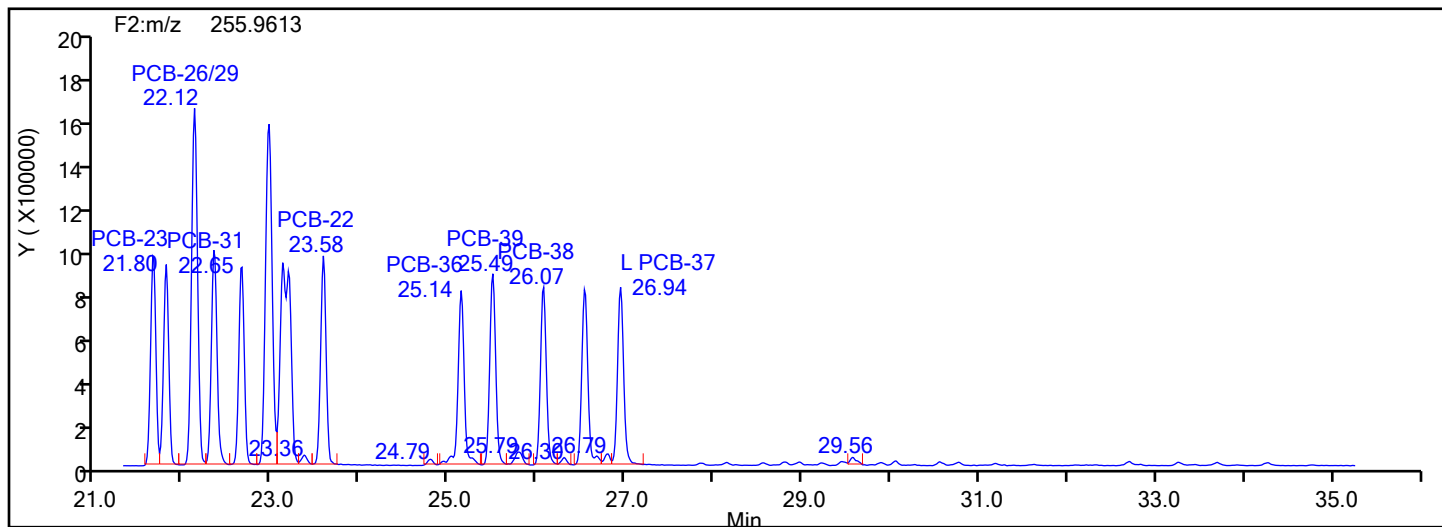
Worklist#: 87130

Sample Line#: 4

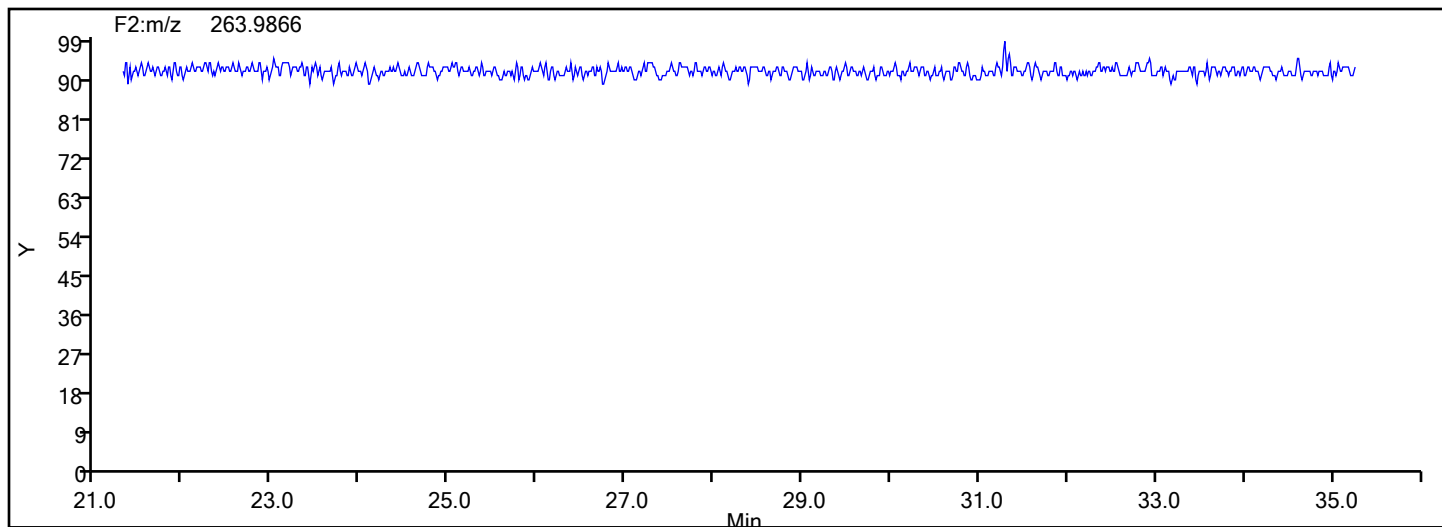
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

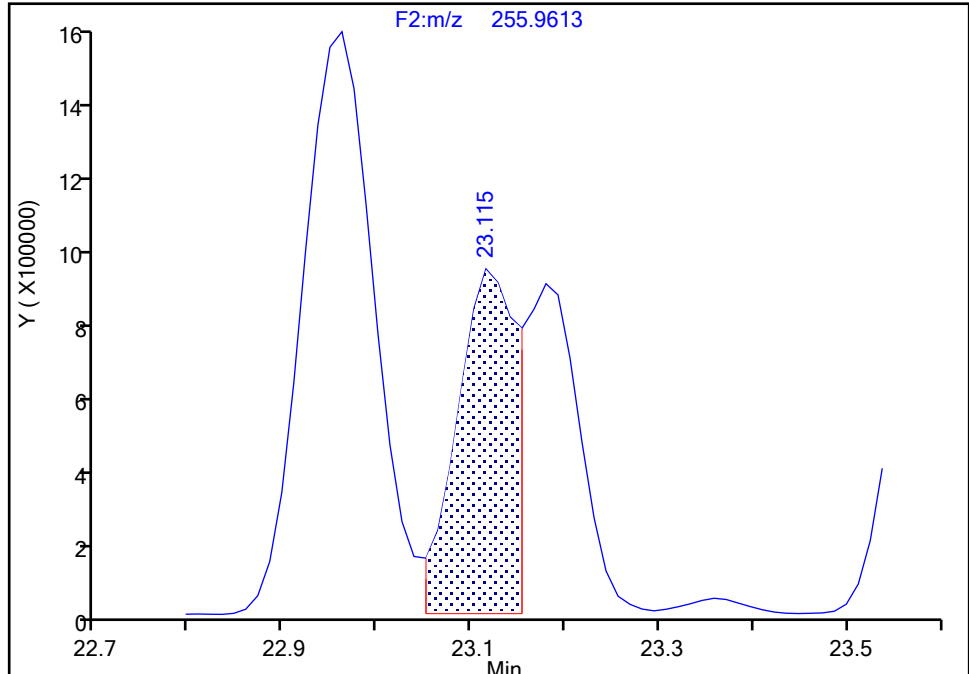
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

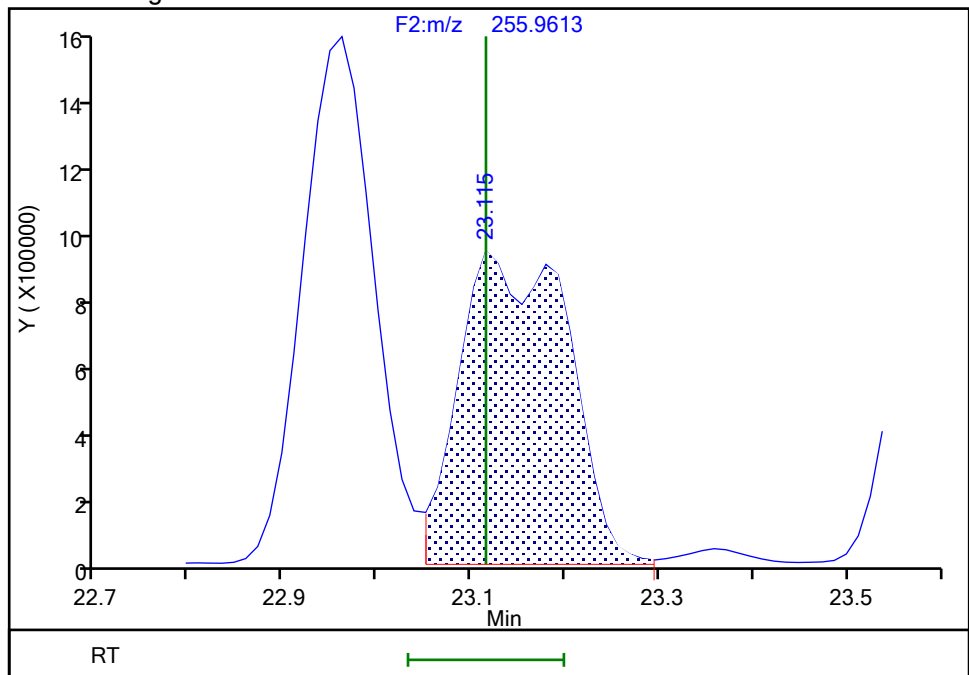
RT: 23.12
Area: 3808070
Amount: 61.066350
Amount Units: pg/ul

Processing Integration Results



RT: 23.12
Area: 7217221
Amount: 98.411321
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:23:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

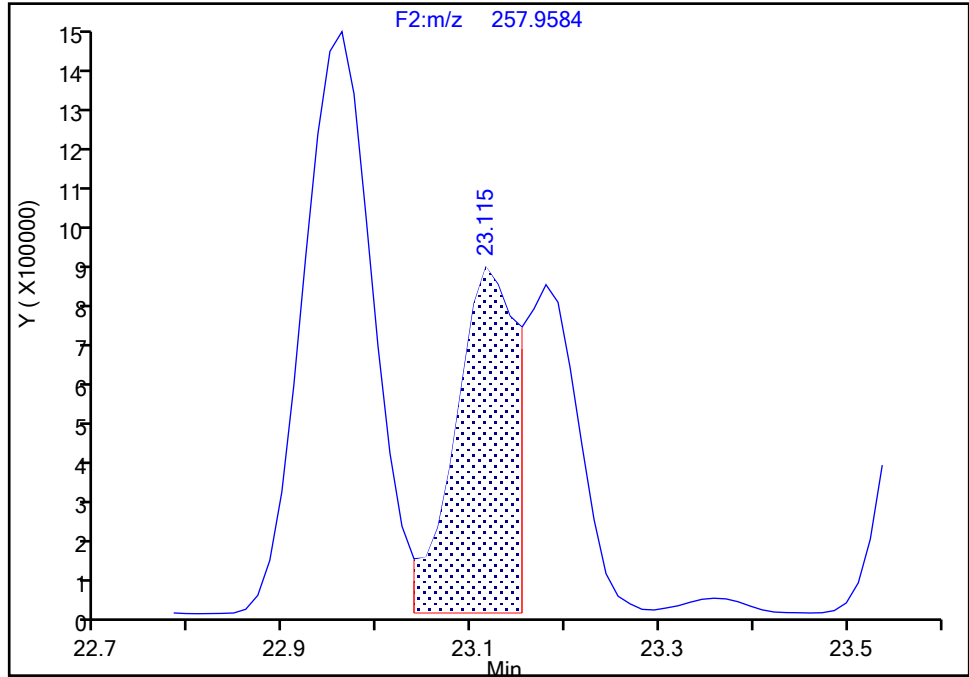
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Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

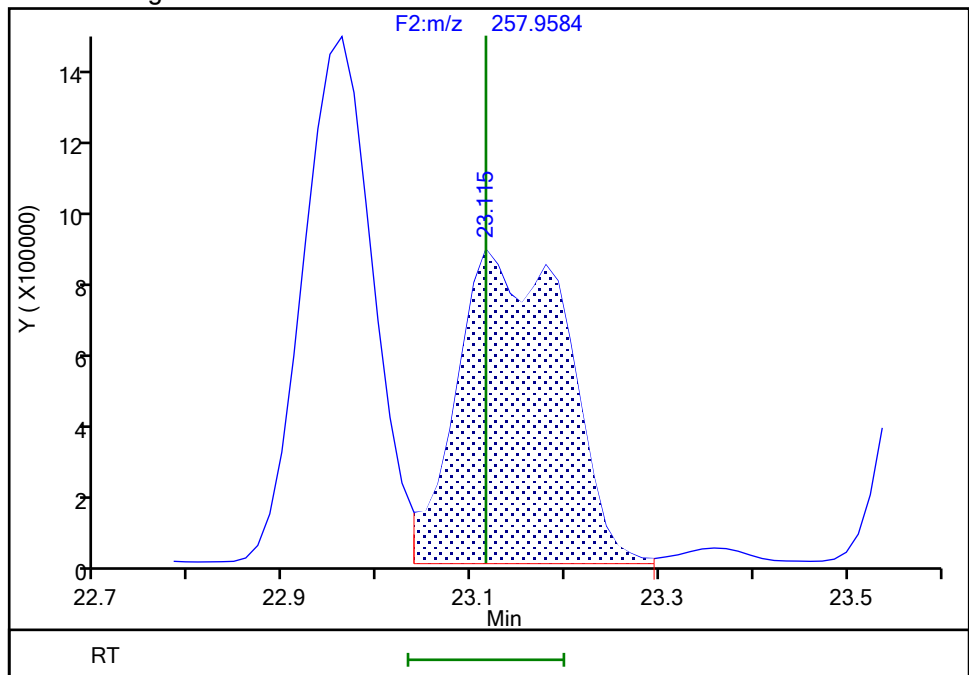
RT: 23.12
Area: 3822480
Amount: 61.066350
Amount Units: pg/ul

Processing Integration Results



RT: 23.12
Area: 7096925
Amount: 98.411321
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:23:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1980 of 3076

9/6/2024 2:43:26 PM
BASFHWC-GMS20243432

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

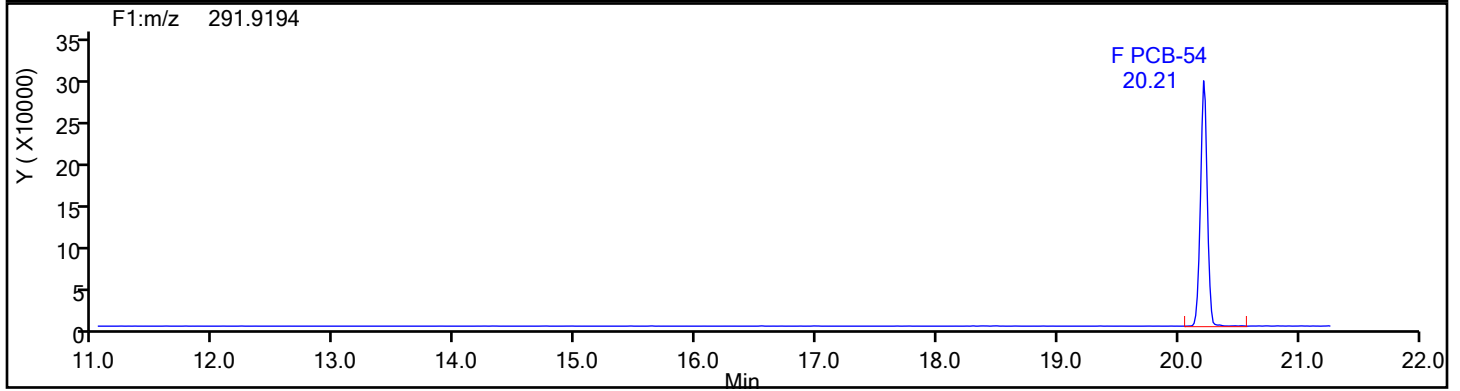
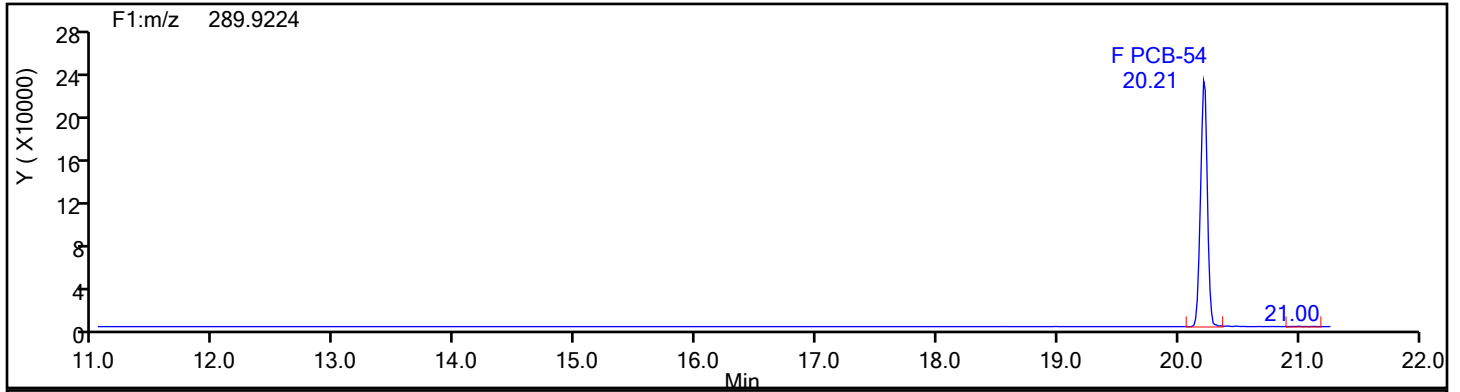
Worklist#: 87130

Sample Line#: 4

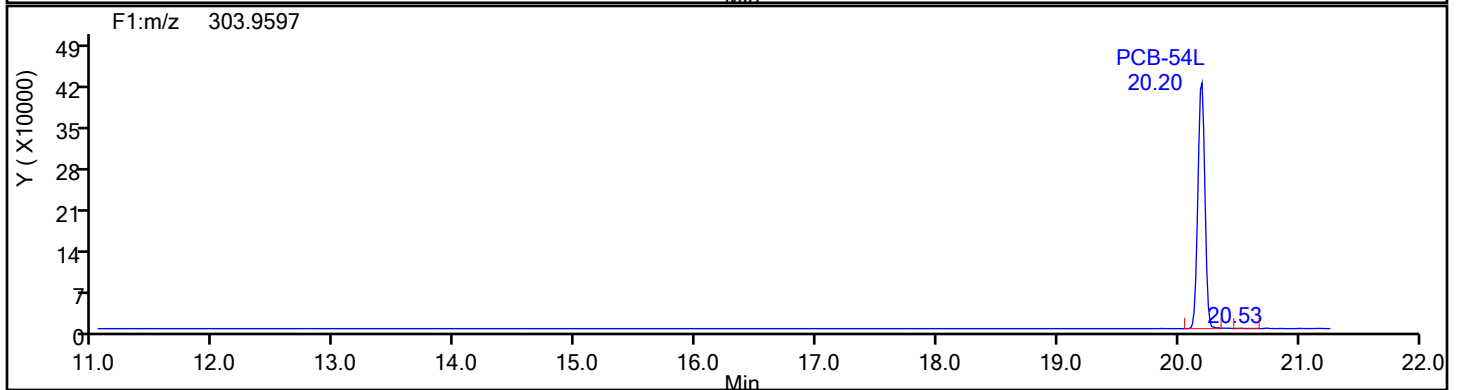
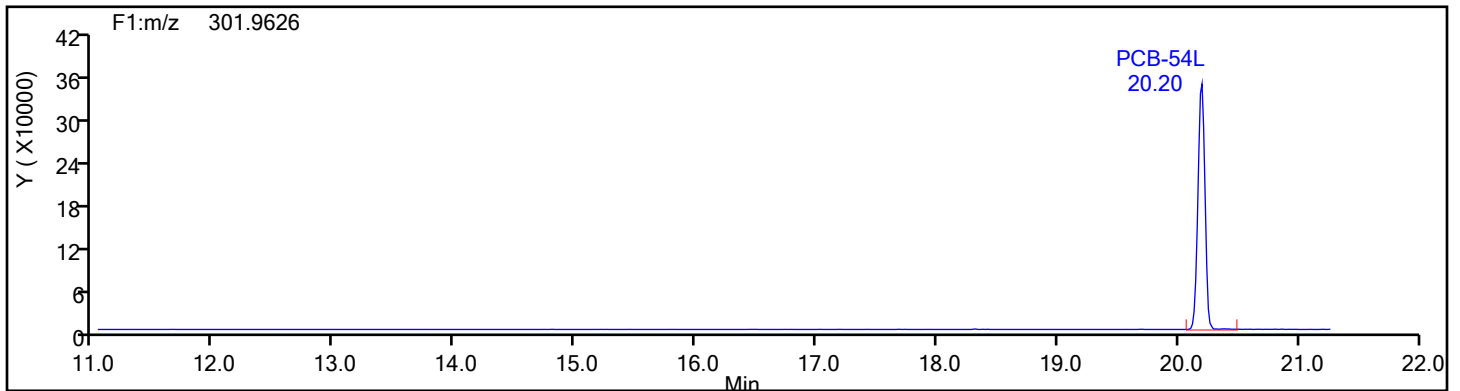
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

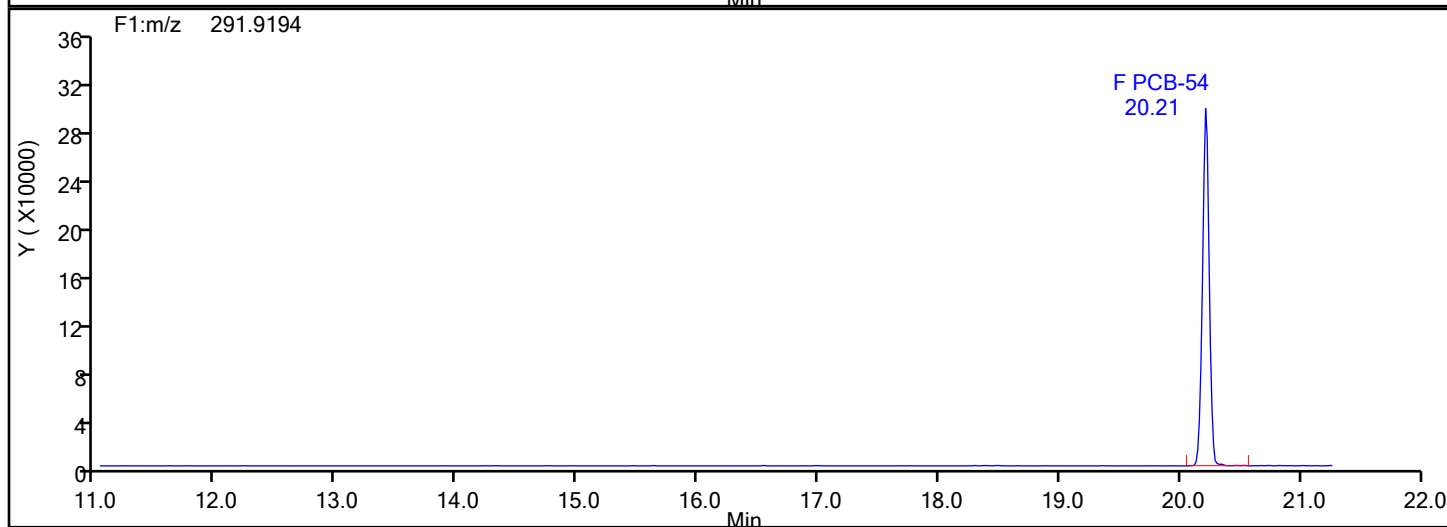
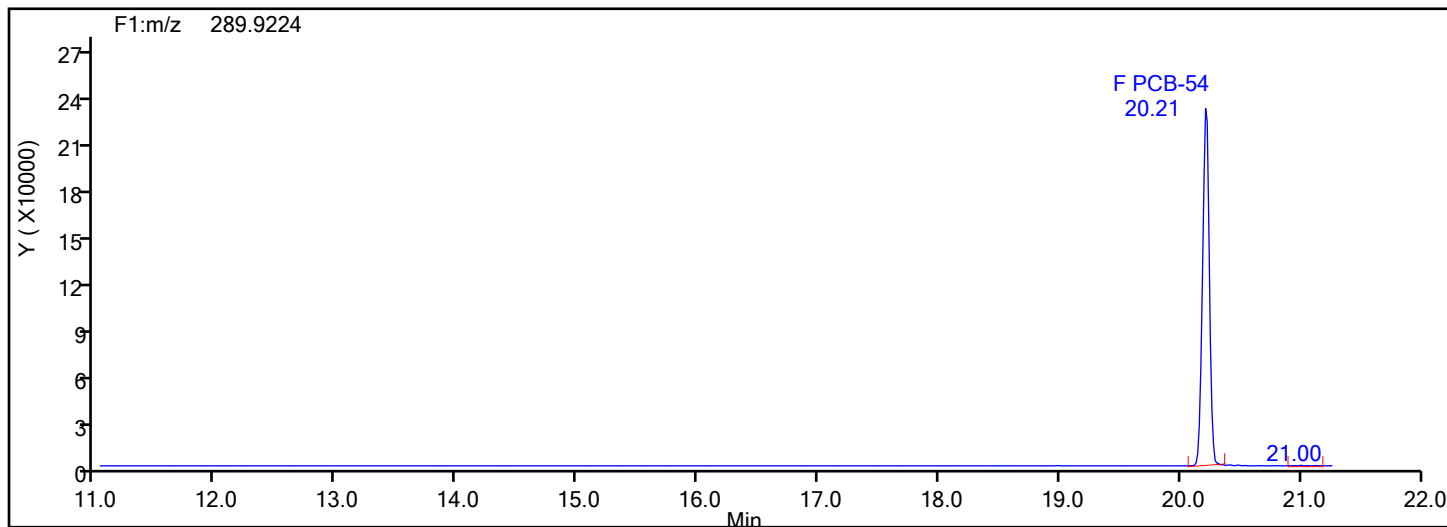
Worklist#: 87130

Sample Line#: 4

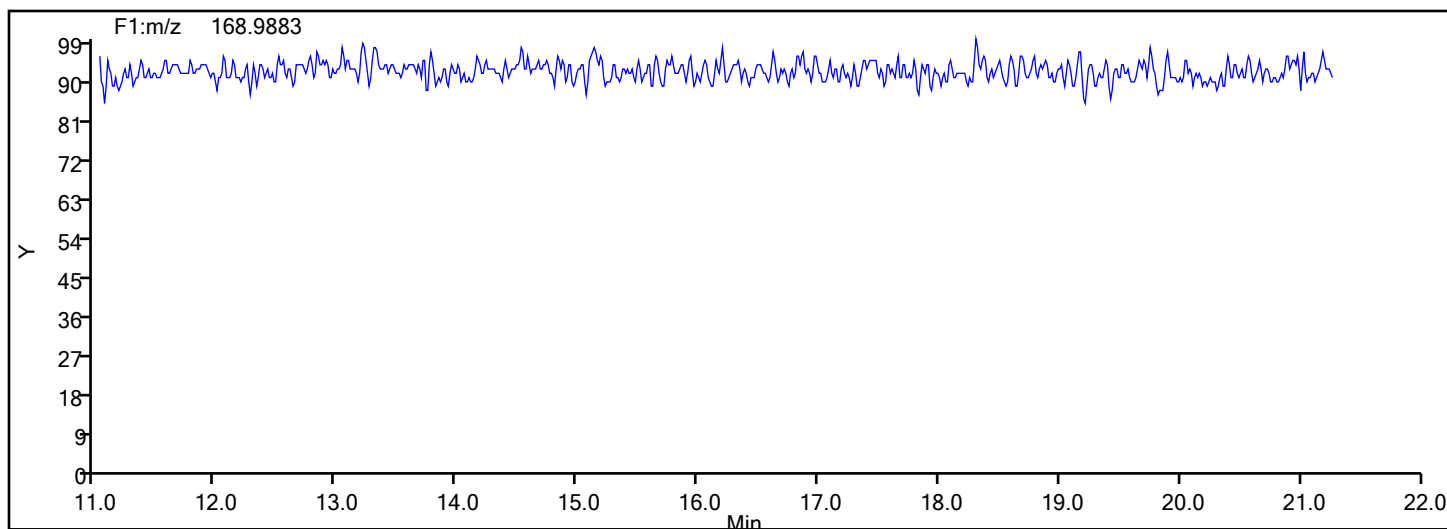
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

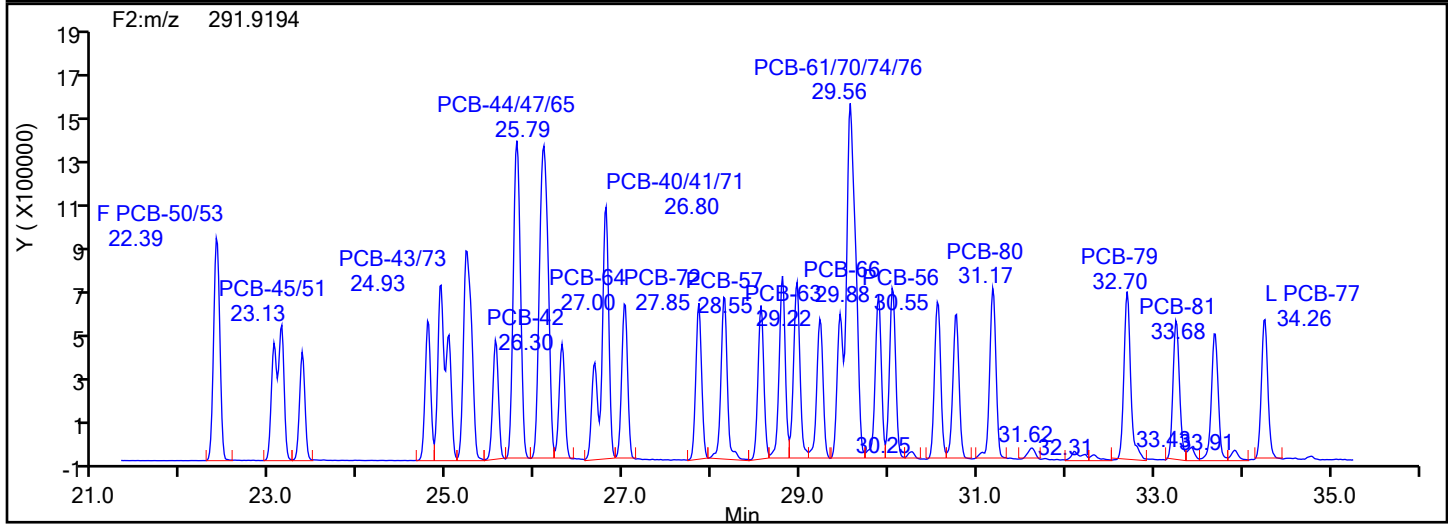
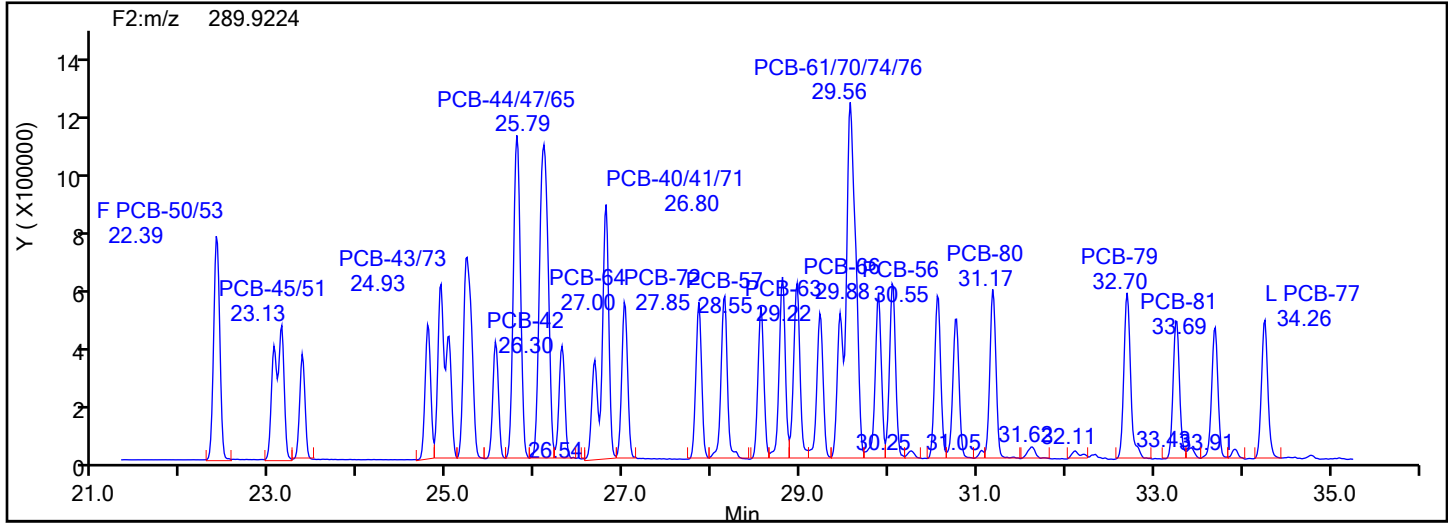
Worklist#: 87130

Sample Line#: 4

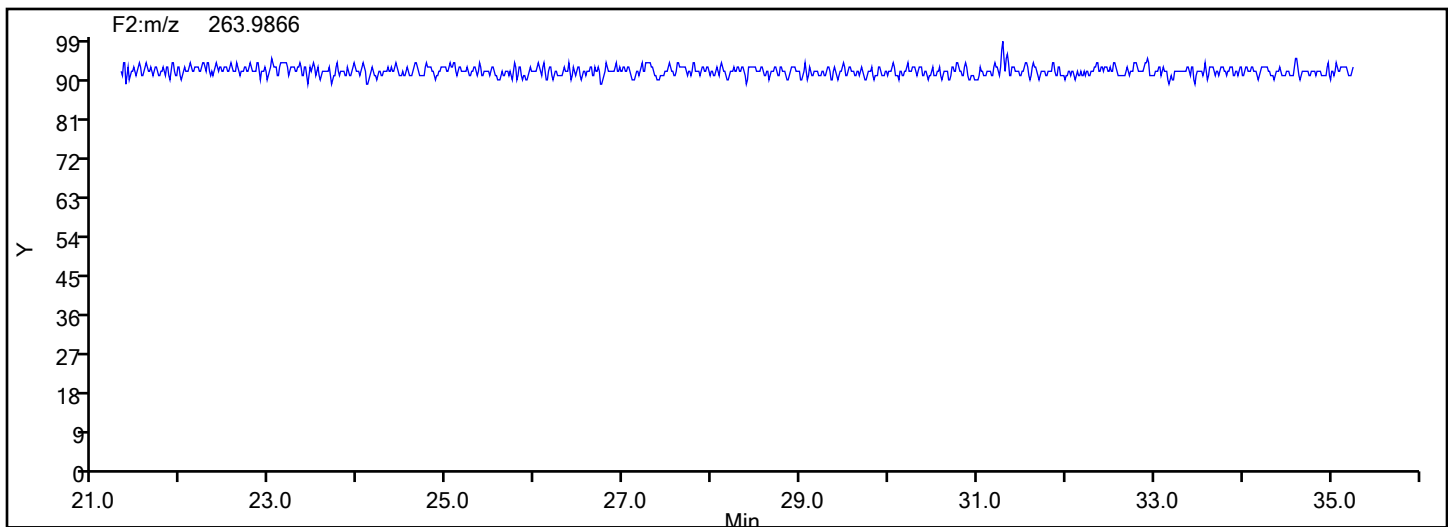
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

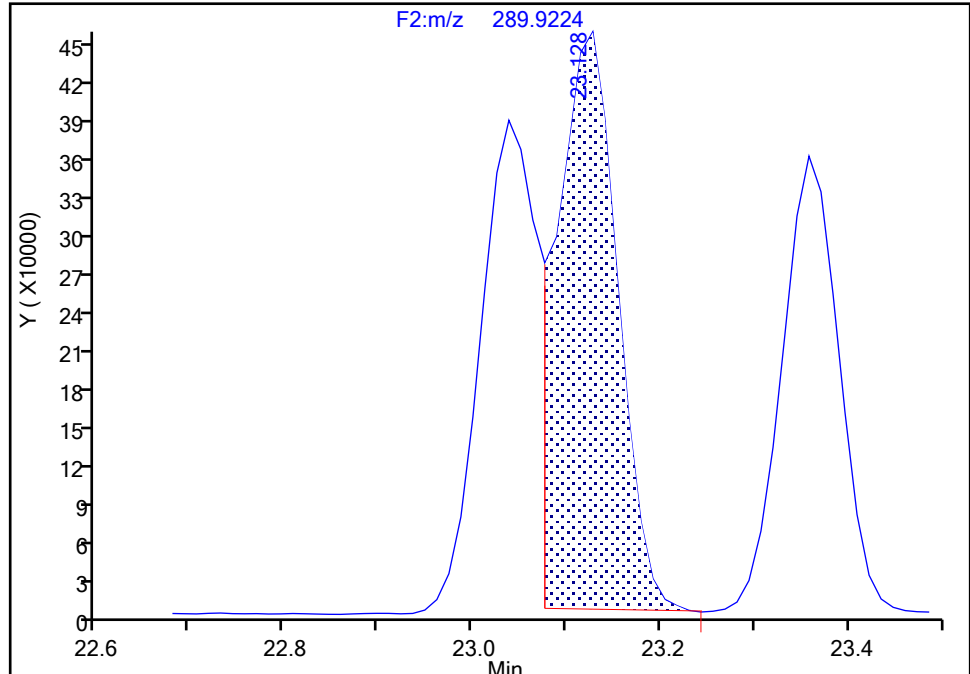
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

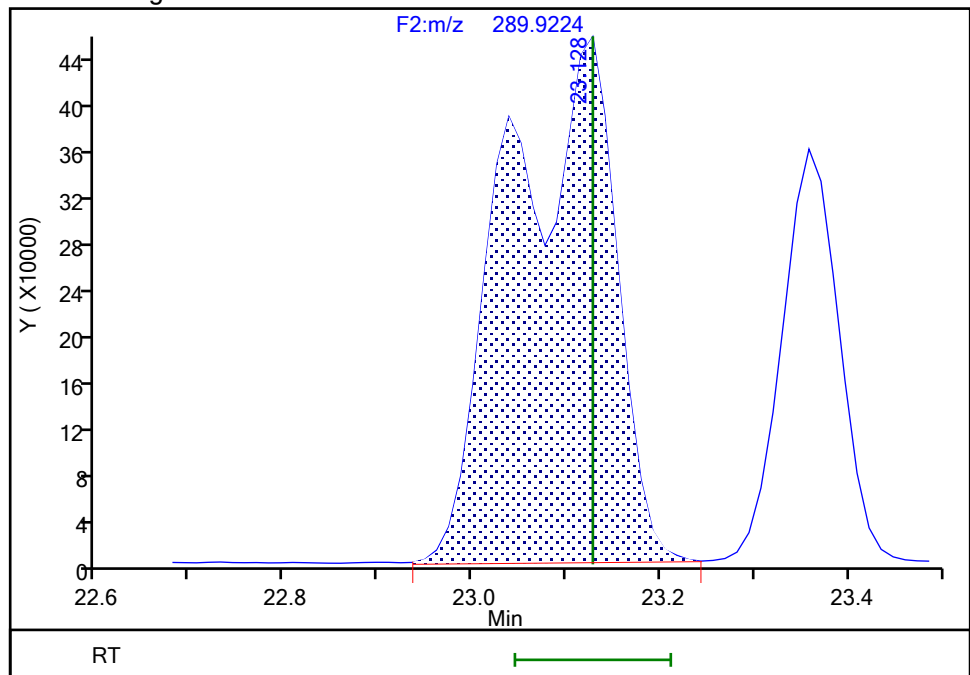
RT: 23.13
Area: 2002794
Amount: 67.548238
Amount Units: pg/ul

Processing Integration Results



RT: 23.13
Area: 3620739
Amount: 100.2261
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:23:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

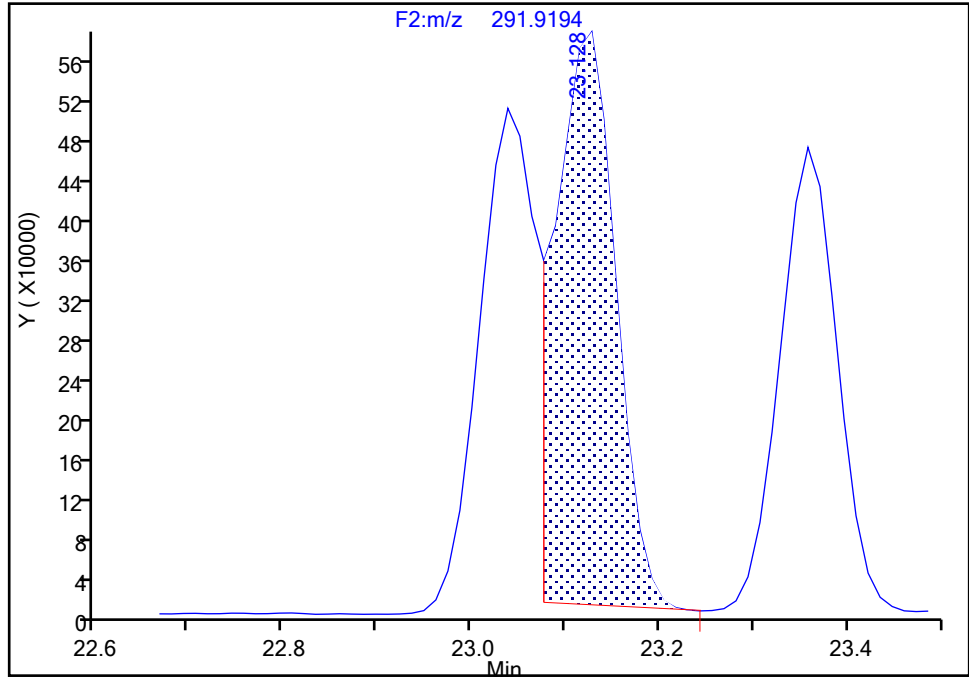
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

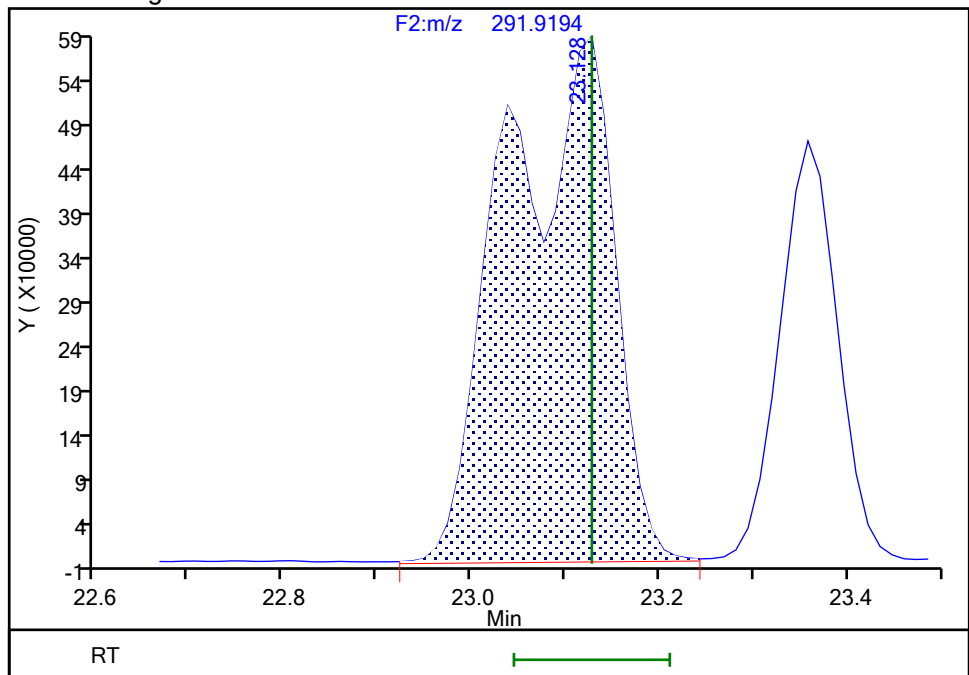
RT: 23.13
Area: 2503417
Amount: 67.548238
Amount Units: pg/ul

Processing Integration Results



RT: 23.13
Area: 4657473
Amount: 100.2261
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:23:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-012024-03438
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

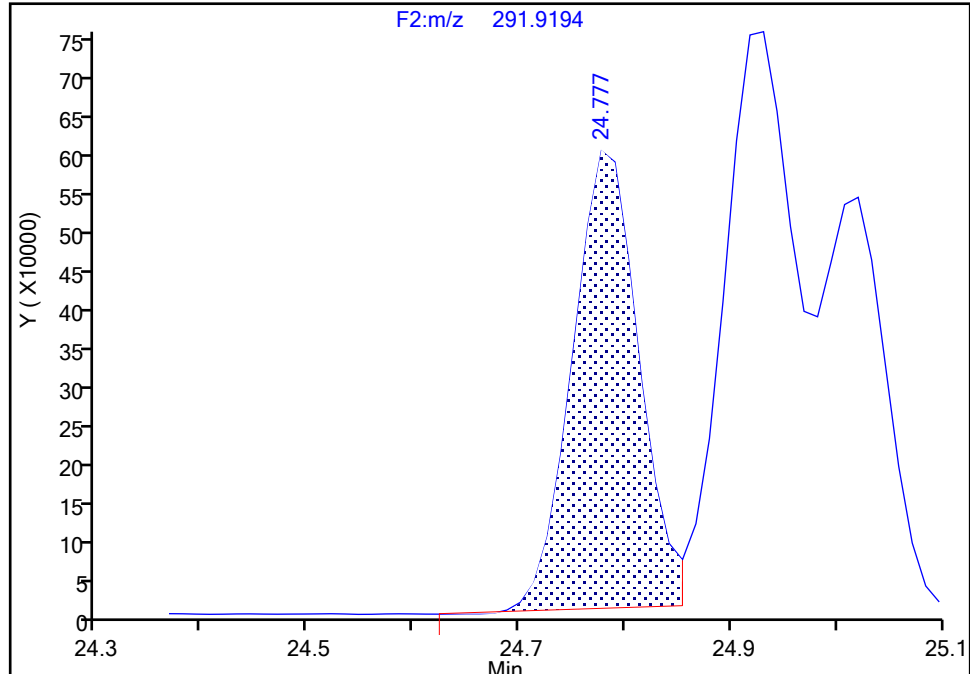
Detector F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 2

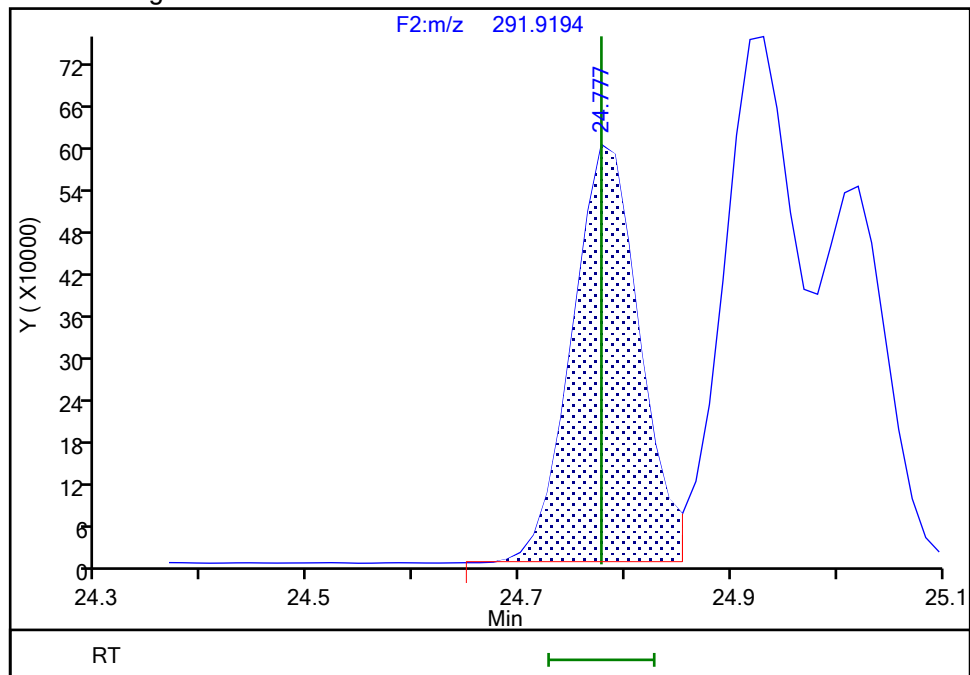
RT: 24.78
Area: 2593697
Amount: 51.914694
Amount Units: pg/ul

Processing Integration Results



RT: 24.78
Area: 2667090
Amount: 51.406431
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:32 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

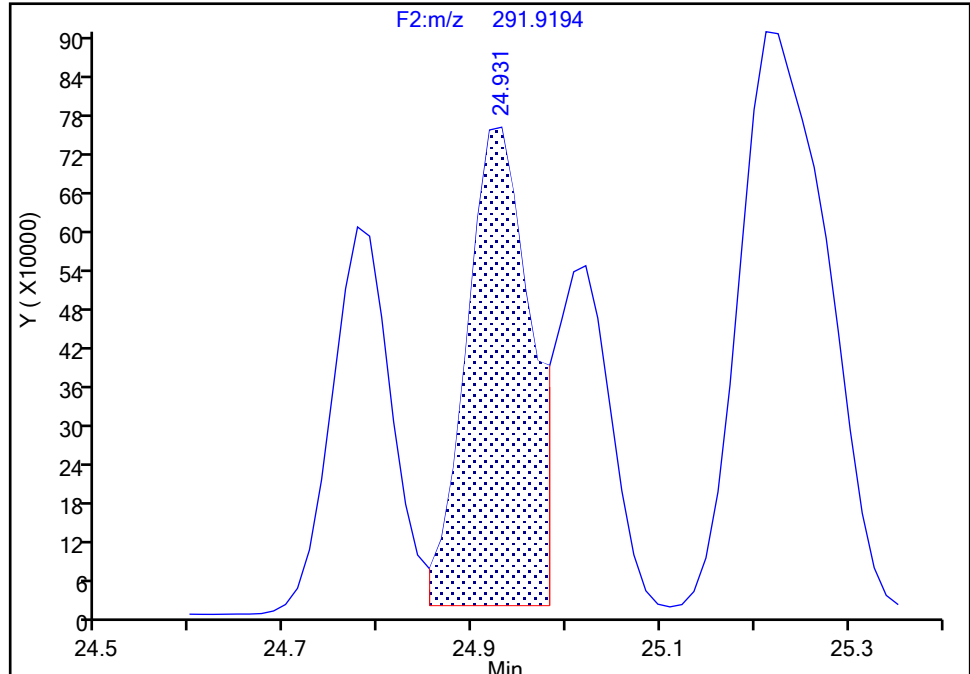
Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

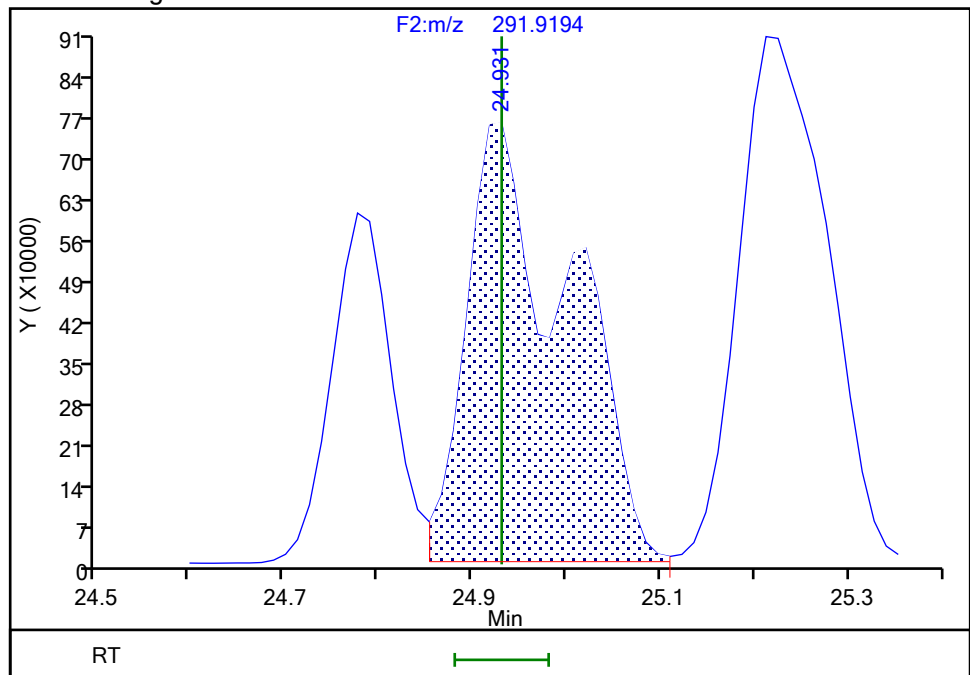
RT: 24.93
Area: 3481878
Amount: 72.083869
Amount Units: pg/ul

Processing Integration Results



RT: 24.93
Area: 5740441
Amount: 99.446054
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:39 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

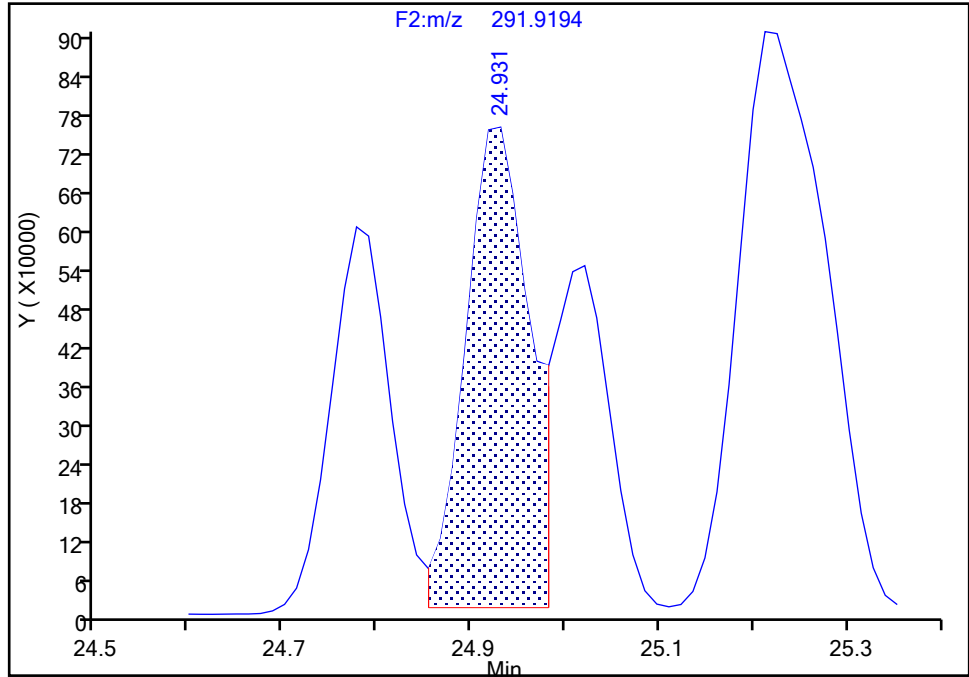
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

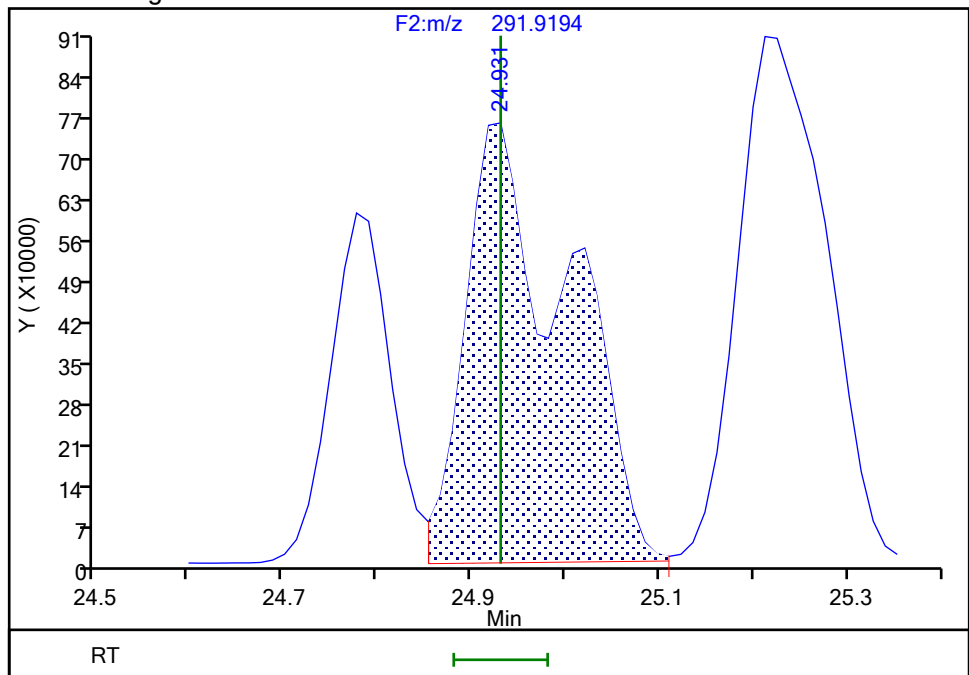
RT: 24.93
Area: 3481878
Amount: 72.083869
Amount Units: pg/ul

Processing Integration Results



RT: 24.93
Area: 5740441
Amount: 99.446054
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:40 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

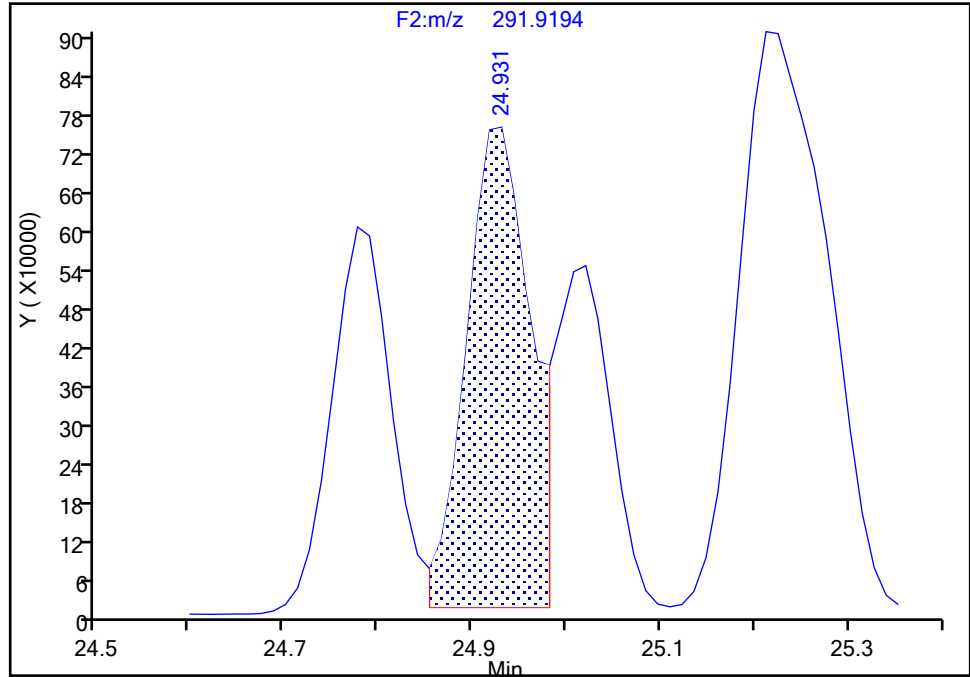
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 3

RT: 24.93
Area: 6287281
Amount: 72.083869
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 24.93
Area: 10270296
Amount: 99.446054
Amount Units: pg/ul

Reviewer: V4XA, 31-May-2024 21:24:40 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

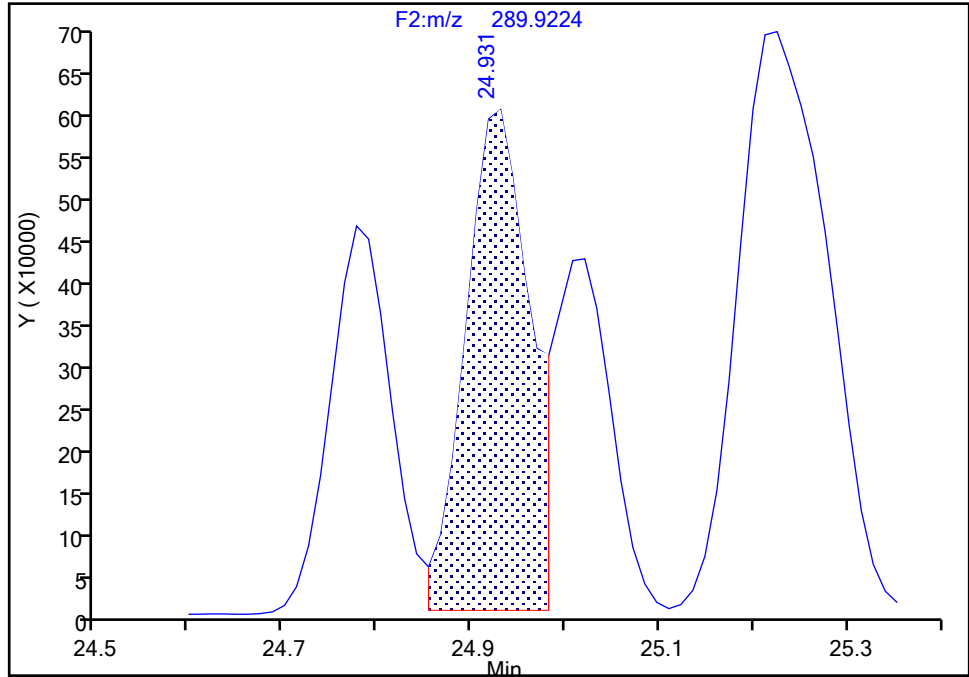
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

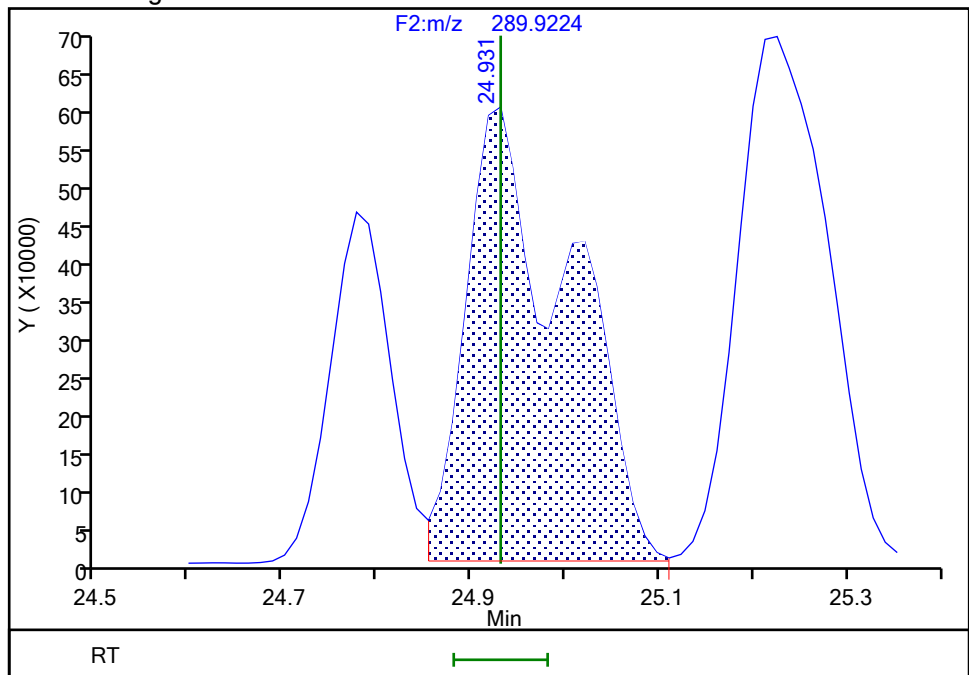
RT: 24.93
Area: 2805403
Amount: 72.083869
Amount Units: pg/ul

Processing Integration Results



RT: 24.93
Area: 4529855
Amount: 99.446054
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:42 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

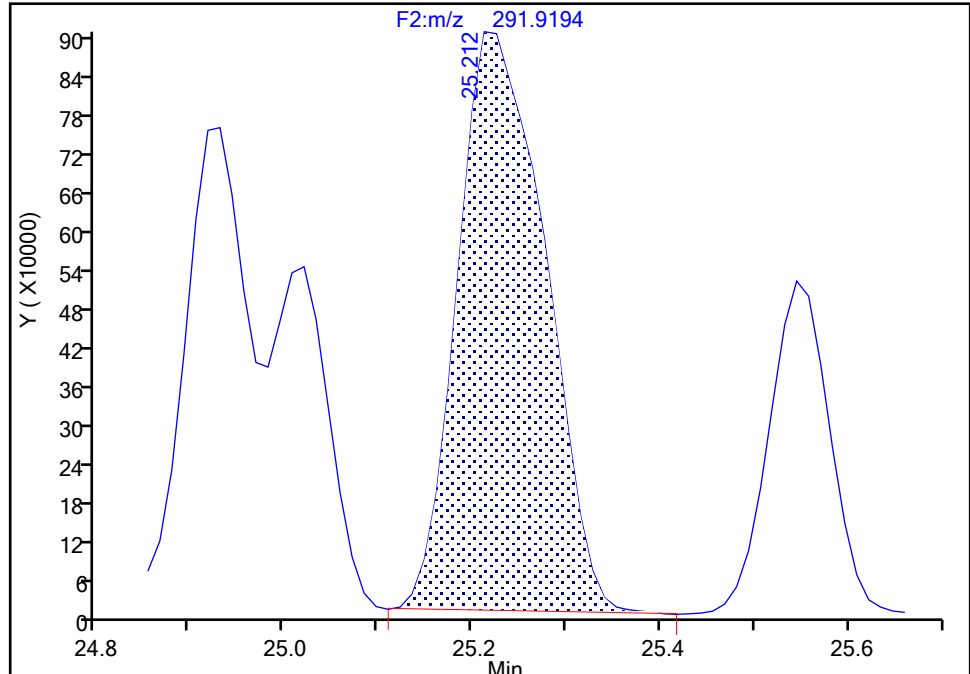
Detector F2(21.81 :35.54)

PCB-49/69, CAS: STL01805

Signal: 2

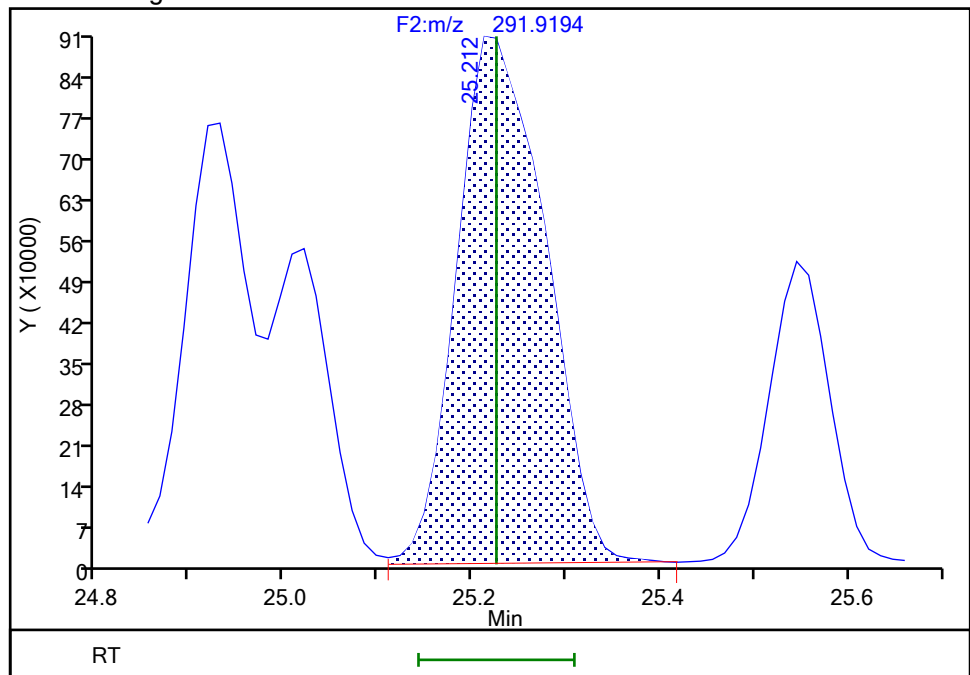
RT: 25.21
Area: 5829549
Amount: 101.3990
Amount Units: pg/ul

Processing Integration Results



RT: 25.21
Area: 5920952
Amount: 98.235687
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

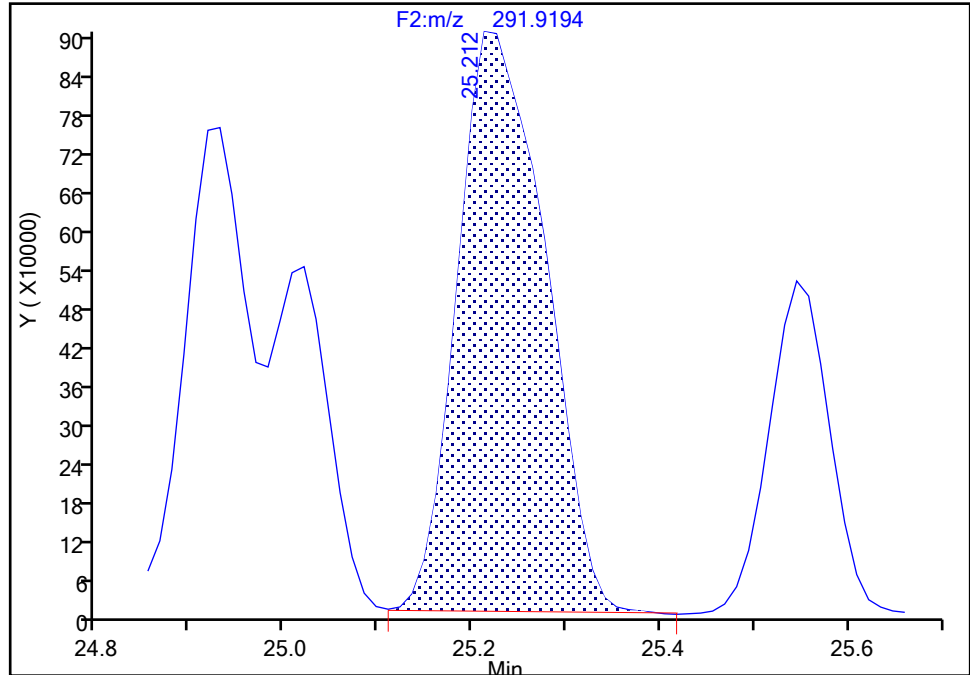
Detector F2(21.81 :35.54)

PCB-49/69, CAS: STL01805

Signal: 2

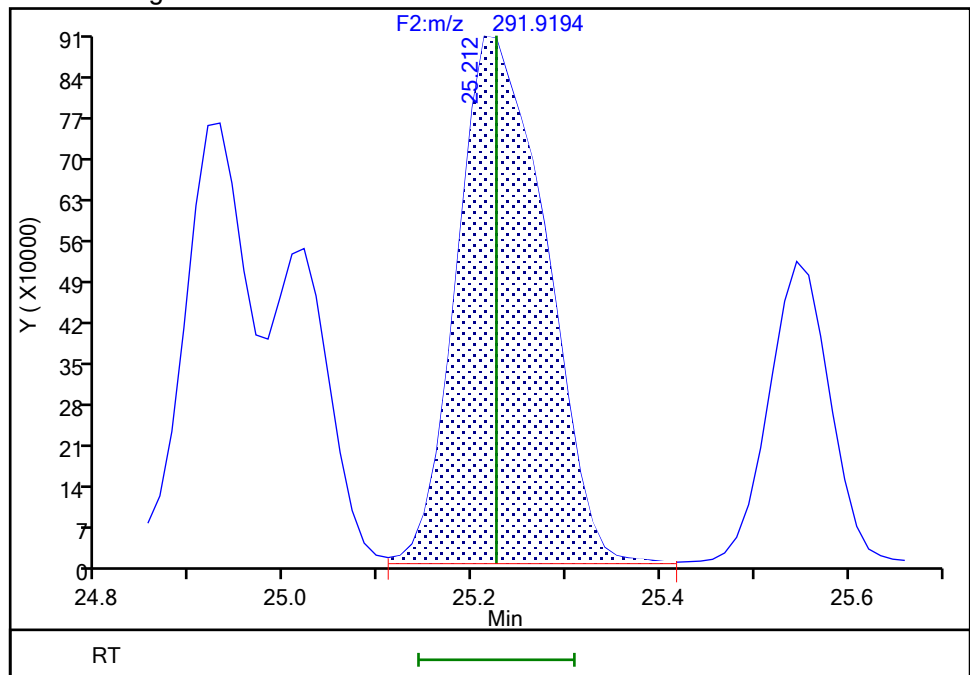
RT: 25.21
Area: 5829549
Amount: 101.3990
Amount Units: pg/ul

Processing Integration Results



RT: 25.21
Area: 5920952
Amount: 98.235687
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:45 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

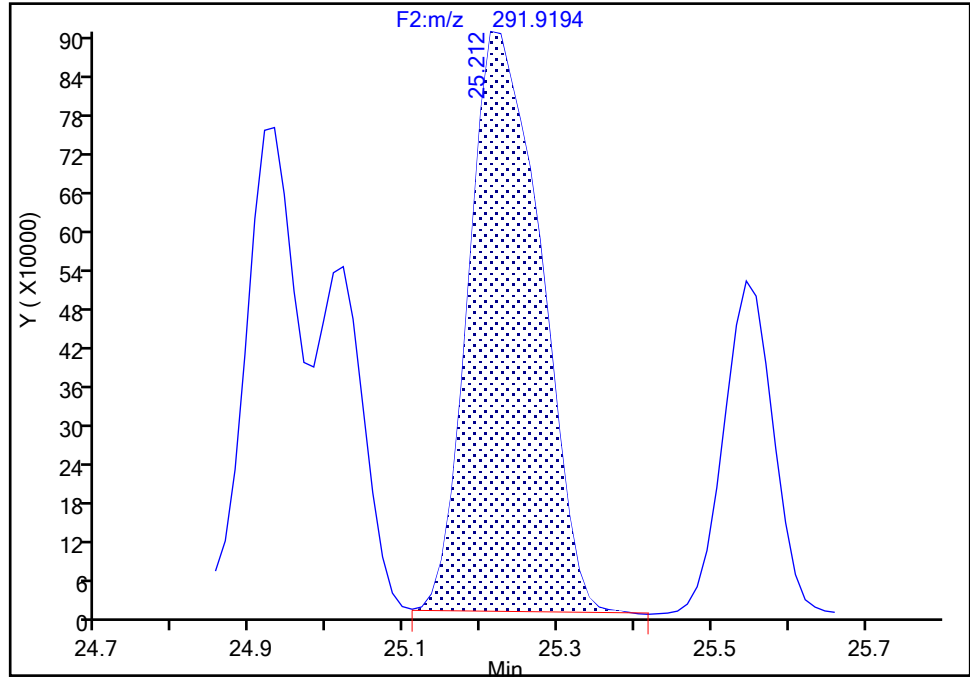
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-49/69, CAS: STL01805

Signal: 3

RT: 25.23
Area: 10399366
Amount: 101.3990
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 25.23
Area: 10490769
Amount: 98.235687
Amount Units: pg/ul
Reviewer: V4XA, 31-May-2024 21:24:45 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

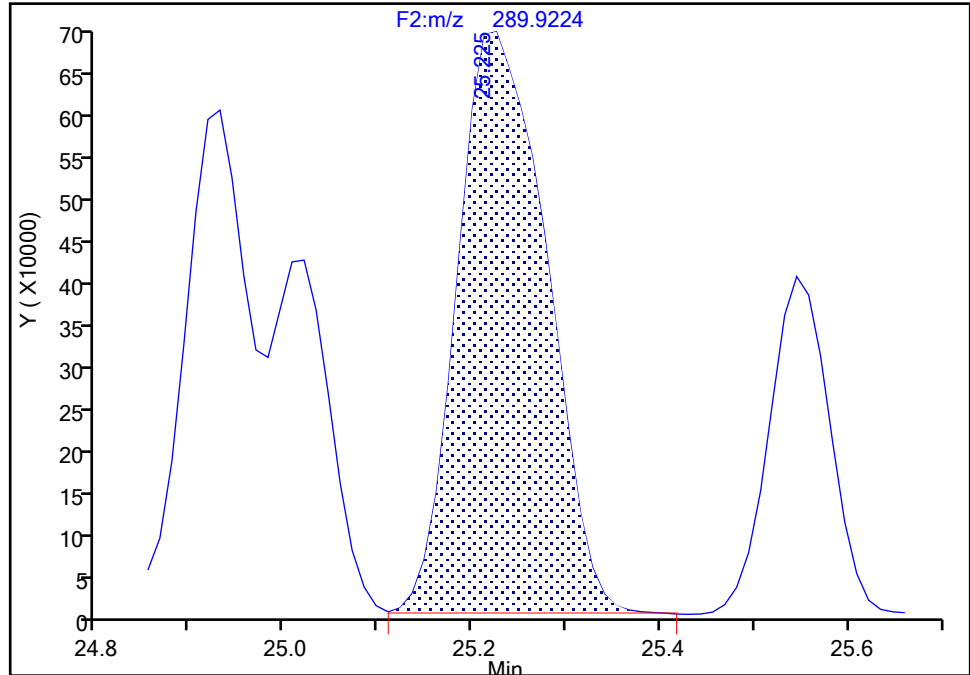
F2(21.81 :35.54)

PCB-49/69, CAS: STL01805

Signal: 1

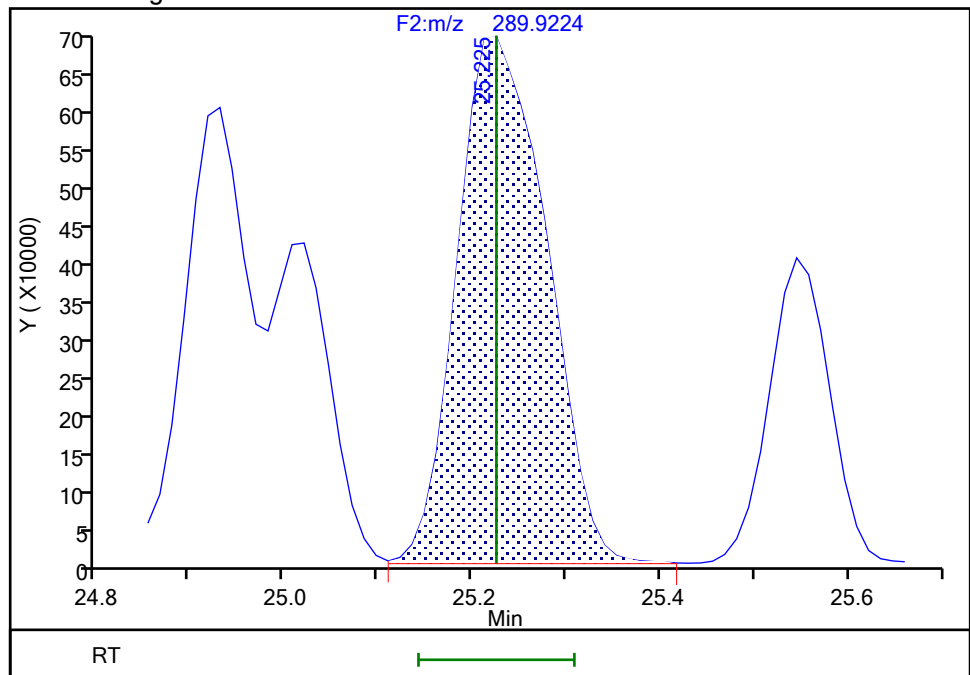
RT: 25.23
Area: 4569817
Amount: 101.3990
Amount Units: pg/ul

Processing Integration Results



RT: 25.23
Area: 4569817
Amount: 98.235687
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:47 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

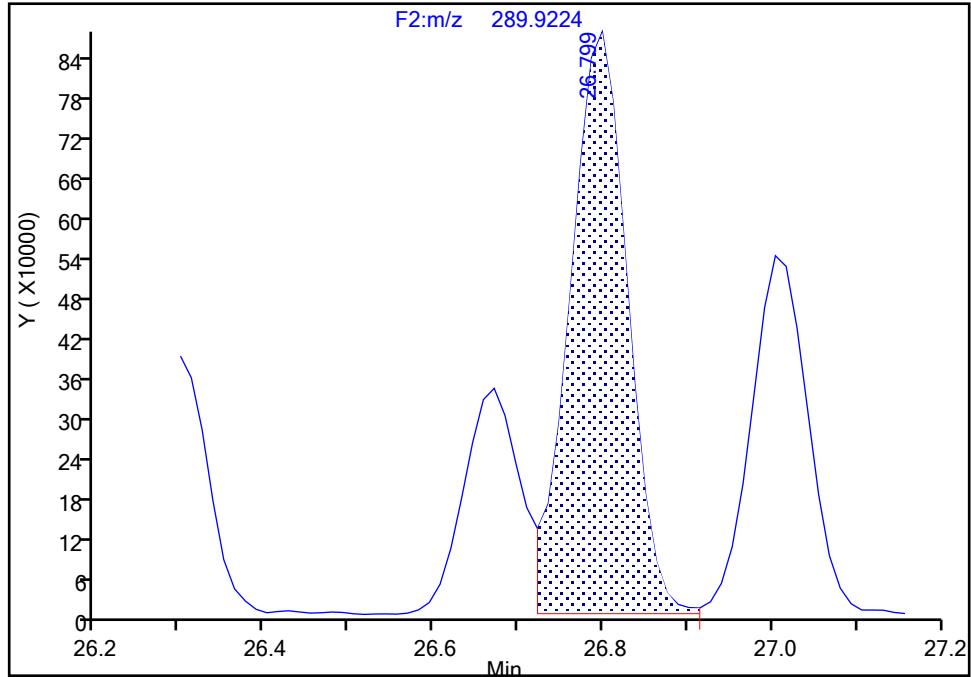
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

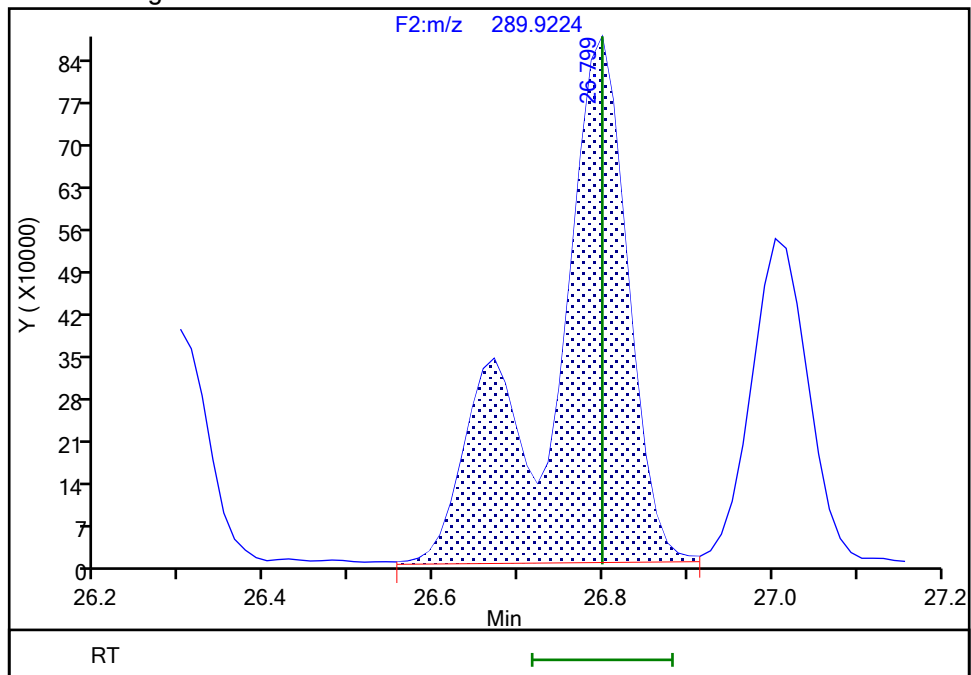
RT: 26.80
Area: 4106860
Amount: 120.2858
Amount Units: pg/ul

Processing Integration Results



RT: 26.80
Area: 5676547
Amount: 144.2424
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:25:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

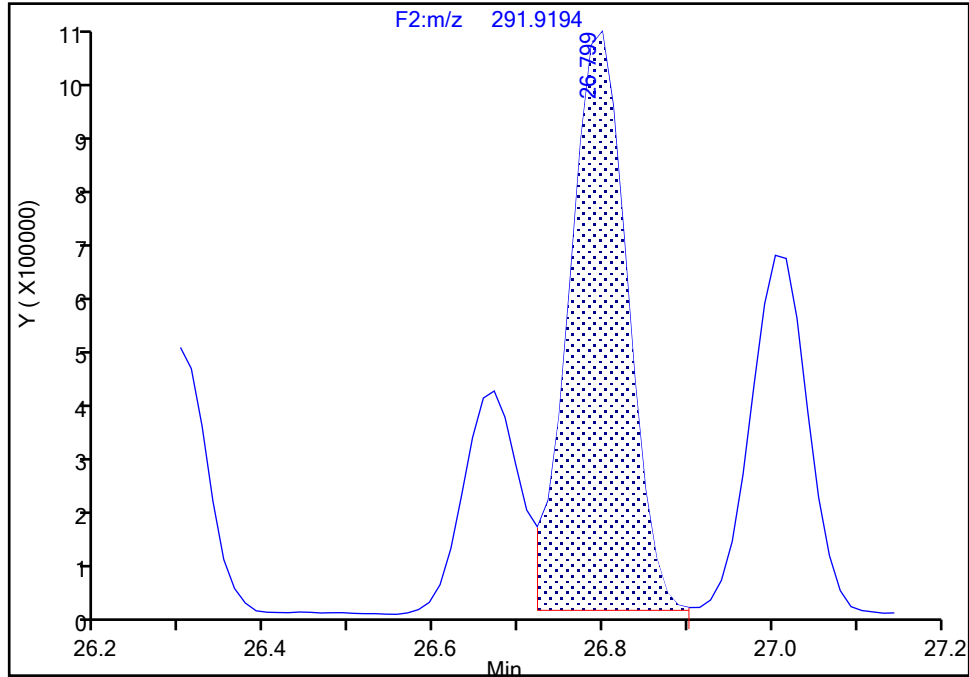
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

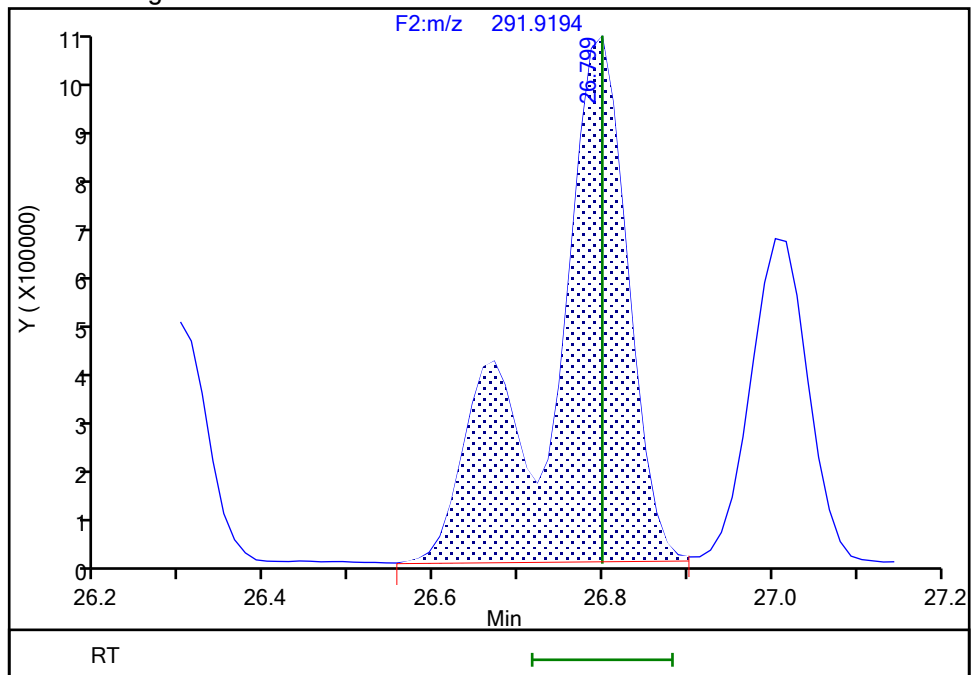
RT: 26.80
Area: 5159837
Amount: 120.2858
Amount Units: pg/ul

Processing Integration Results



RT: 26.80
Area: 7100823
Amount: 144.2424
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:25:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

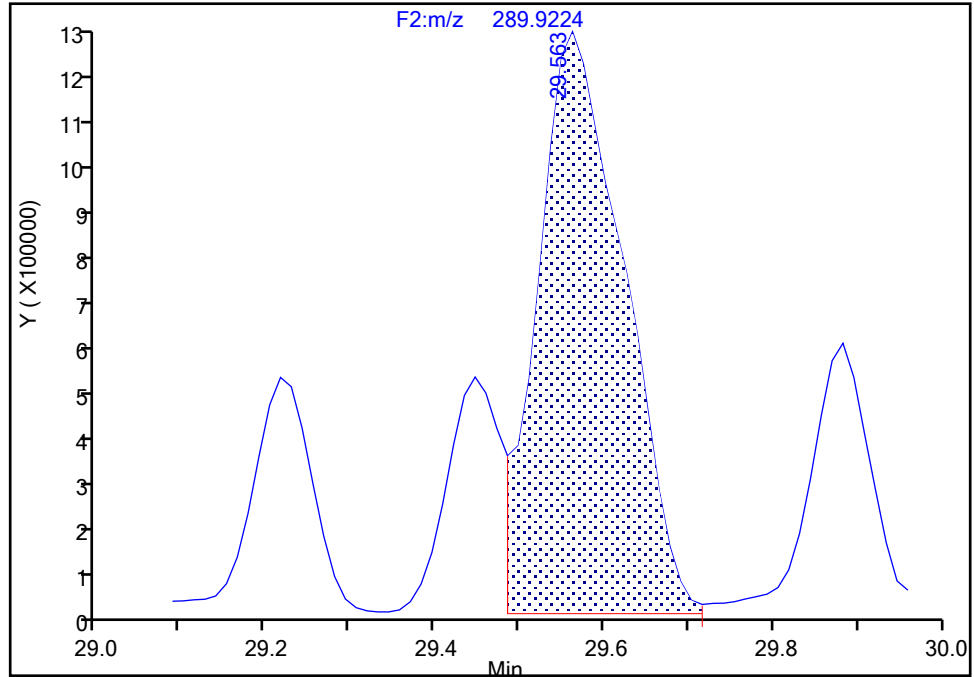
Detector F2(21.81 :35.54)

PCB-61/70/74/76, CAS: STL01808

Signal: 1

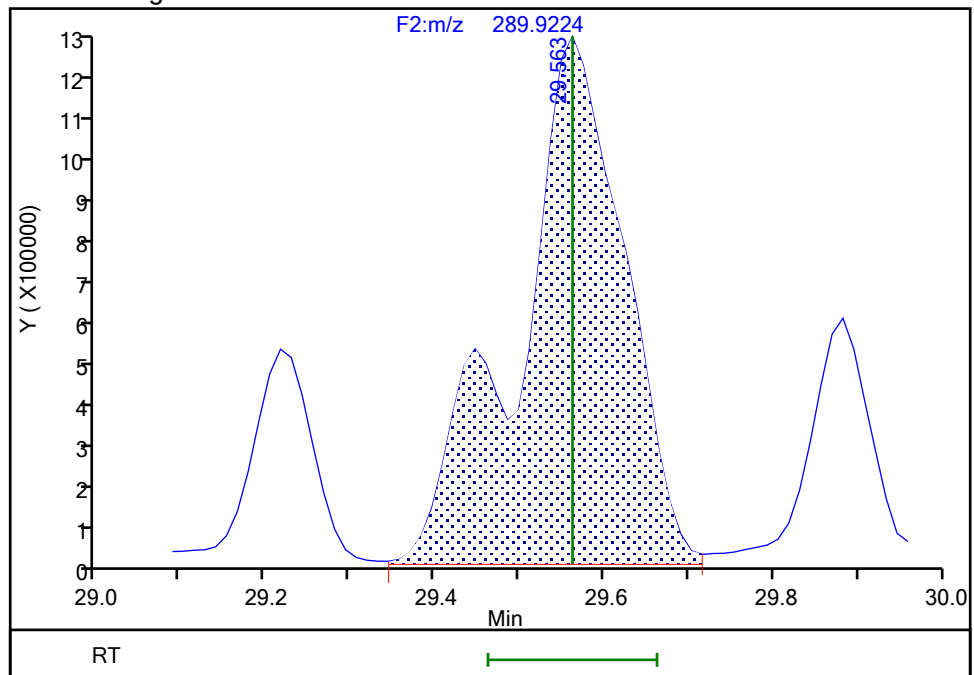
RT: 29.56
Area: 8639683
Amount: 171.0726
Amount Units: pg/ul

Processing Integration Results



RT: 29.56
Area: 10773903
Amount: 192.4208
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:25:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

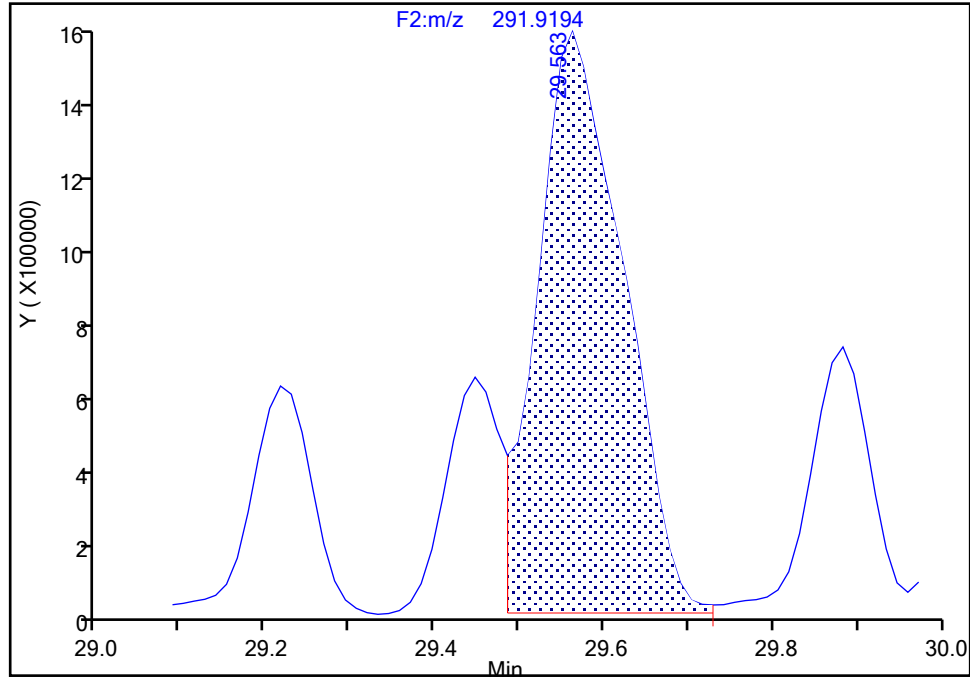
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-61/70/74/76, CAS: STL01808

Signal: 2

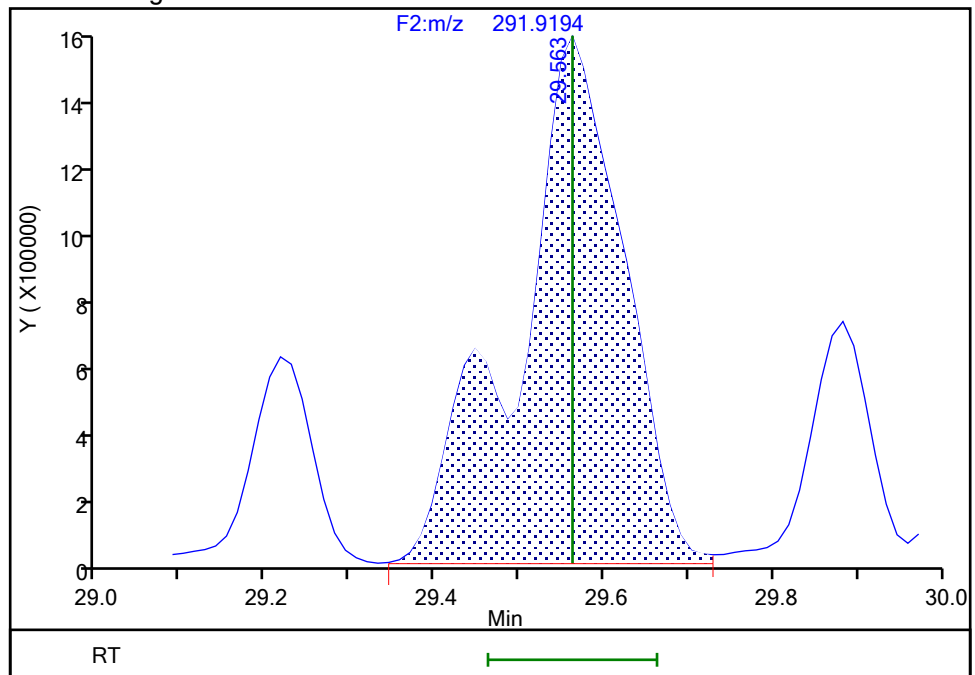
RT: 29.56
Area: 10760126
Amount: 171.0726
Amount Units: pg/ul

Processing Integration Results



RT: 29.56
Area: 13481106
Amount: 192.4208
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:25:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

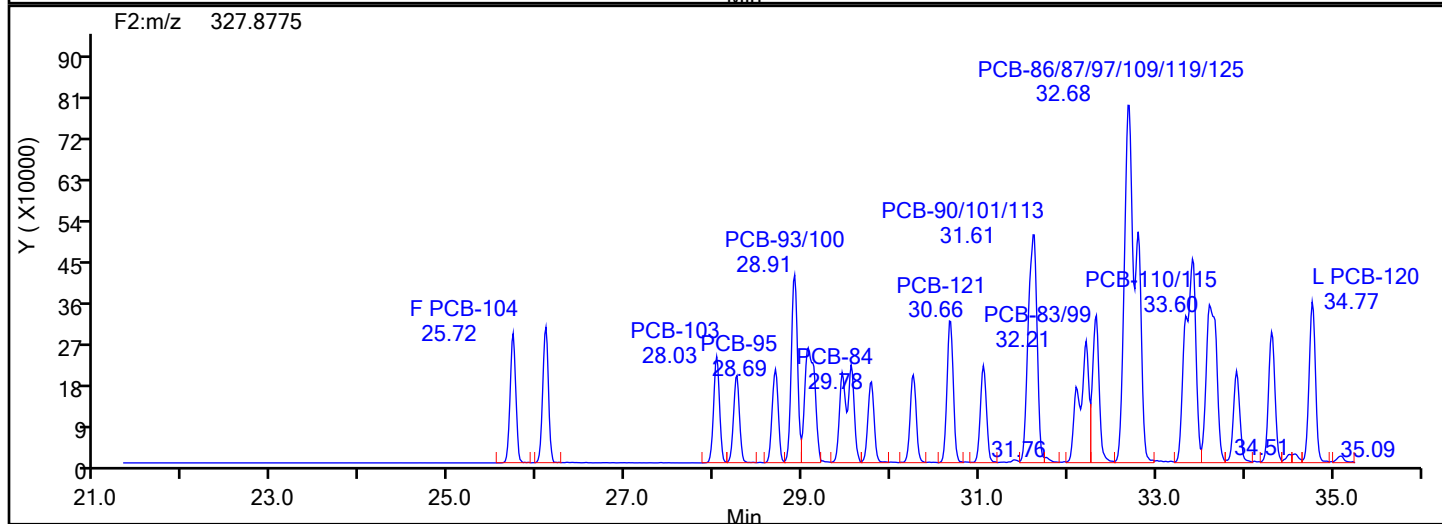
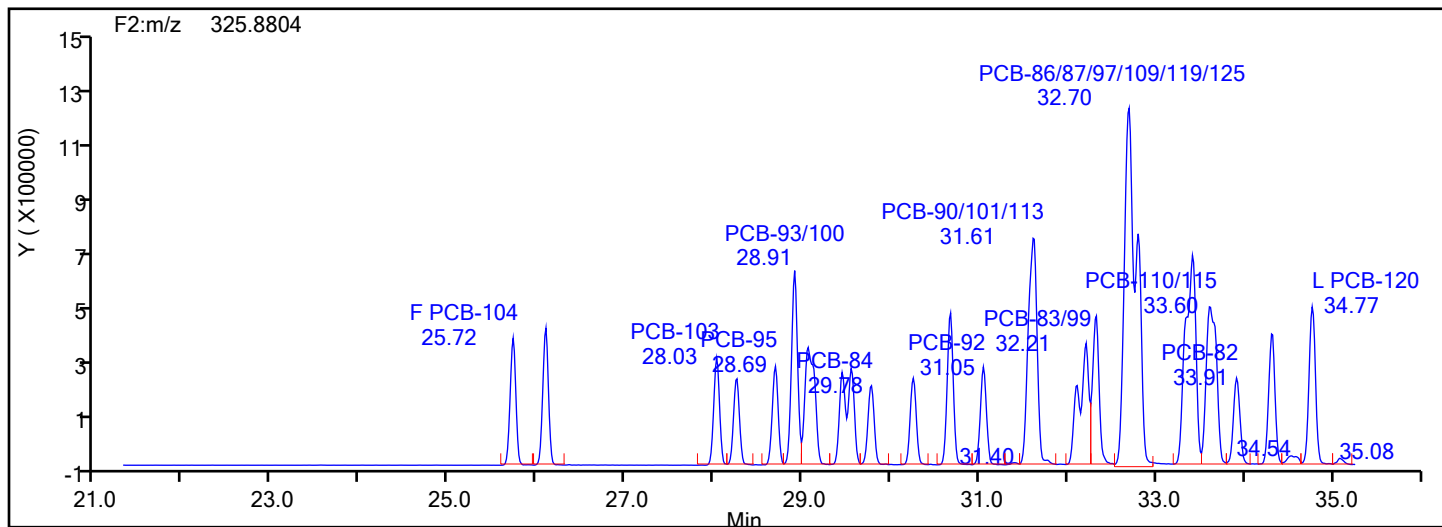
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9/6/2024
2:43:26 PM

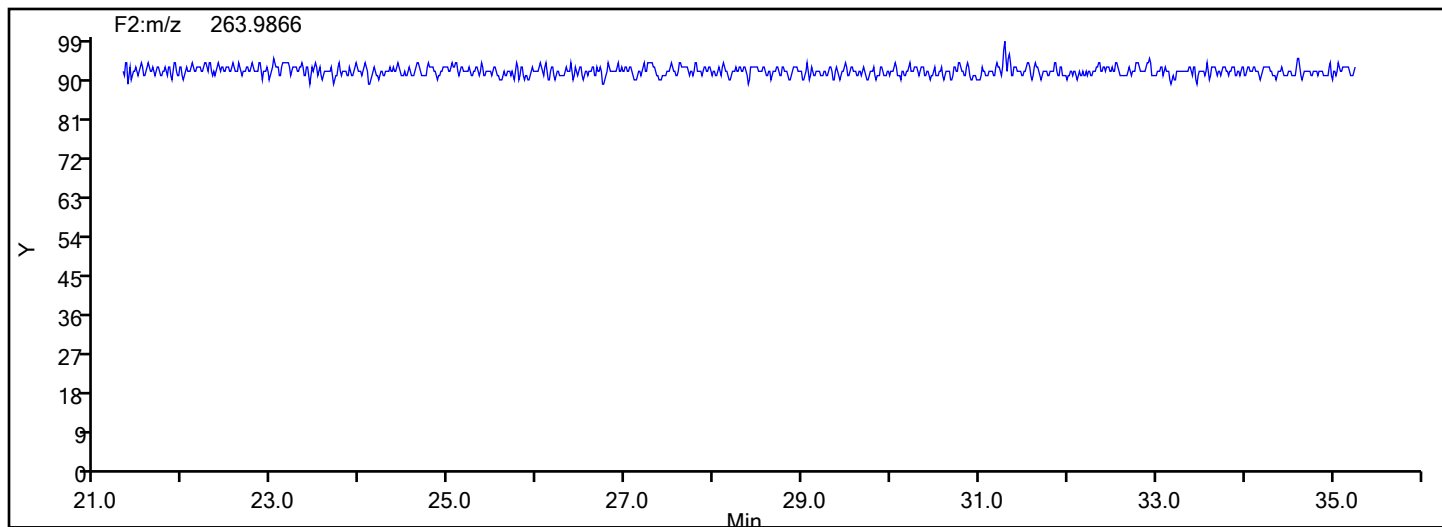
Column Dia: 0.25 mm

Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d		
Injection Date:	31-May-2024 19:10:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	87130	Sample Line#:	4
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
PePCB F2			



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

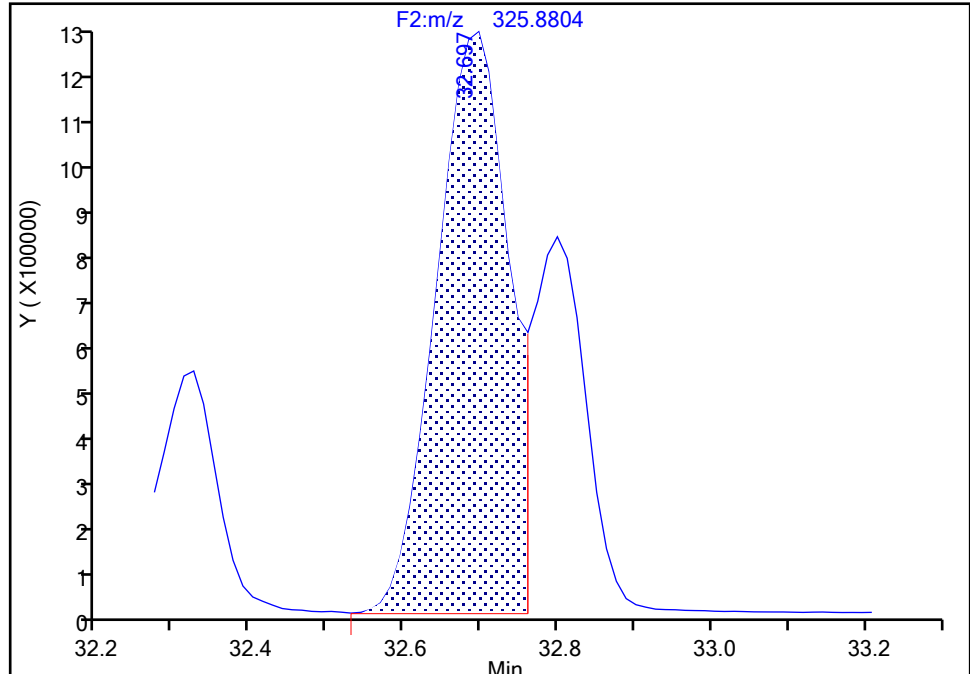
Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

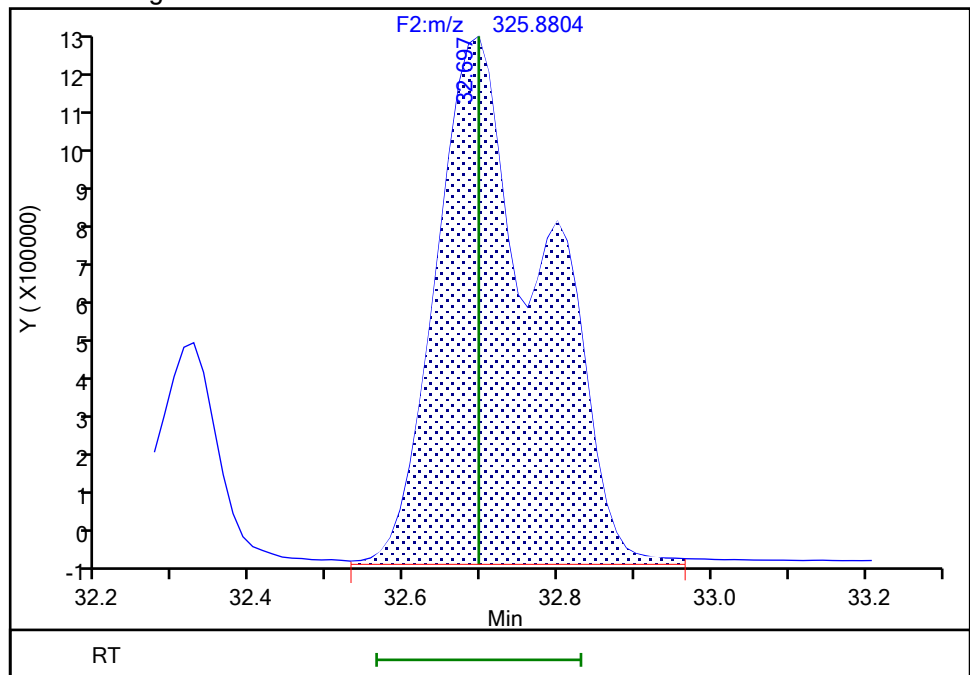
RT: 32.70
Area: 8077860
Amount: 221.5580
Amount Units: pg/ul

Processing Integration Results



RT: 32.70
Area: 11933595
Amount: 286.9480
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:26:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

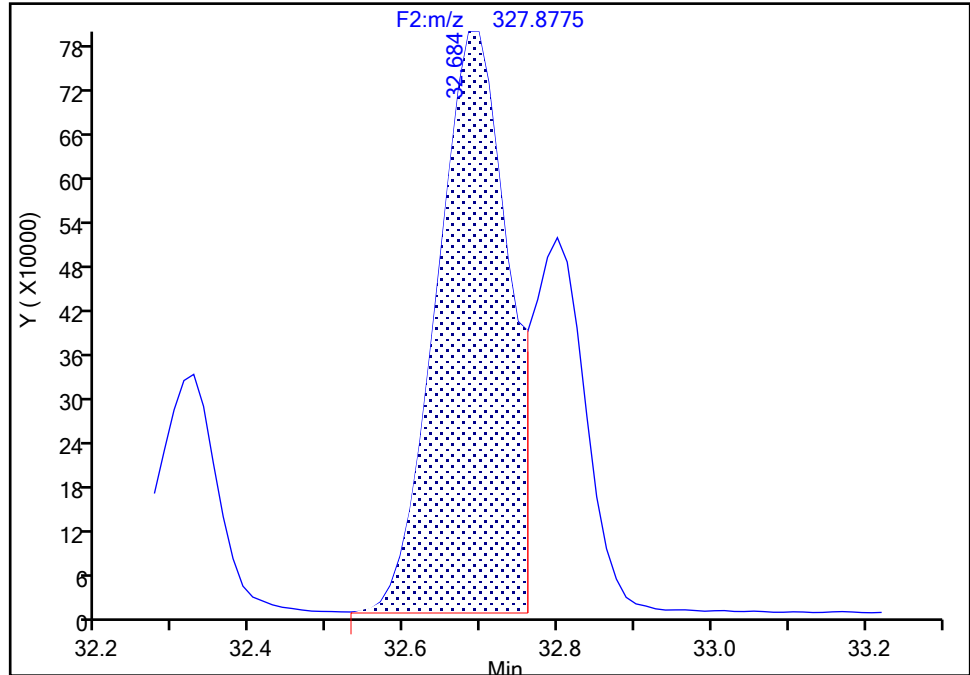
F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

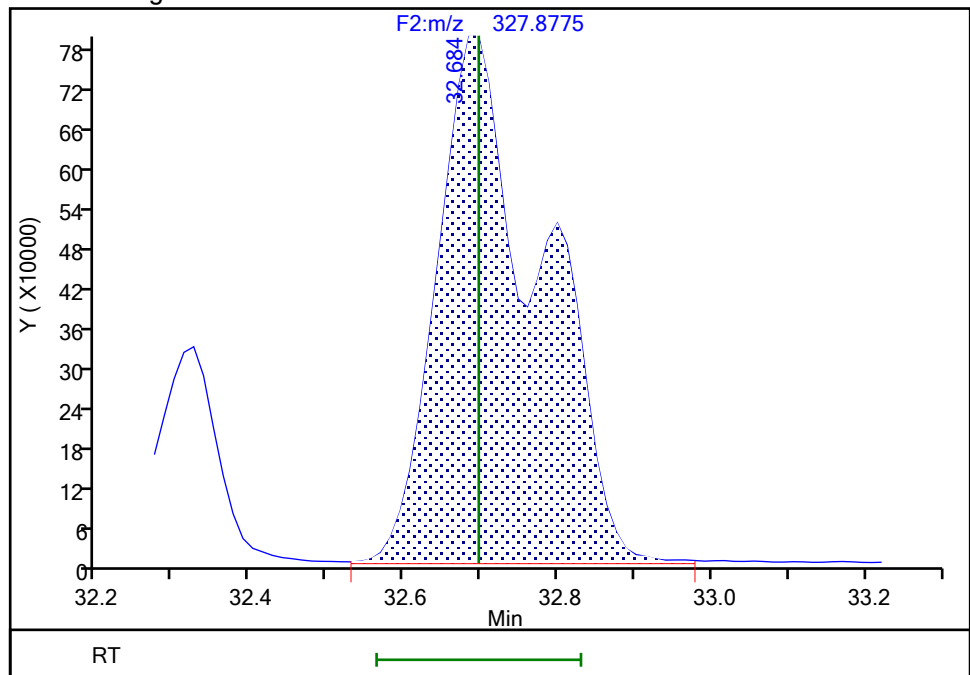
RT: 32.68
Area: 5097479
Amount: 221.5580
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 7465580
Amount: 286.9480
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:27:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-01520-2024-03455
9/6/2024
2:43:26 PM

Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

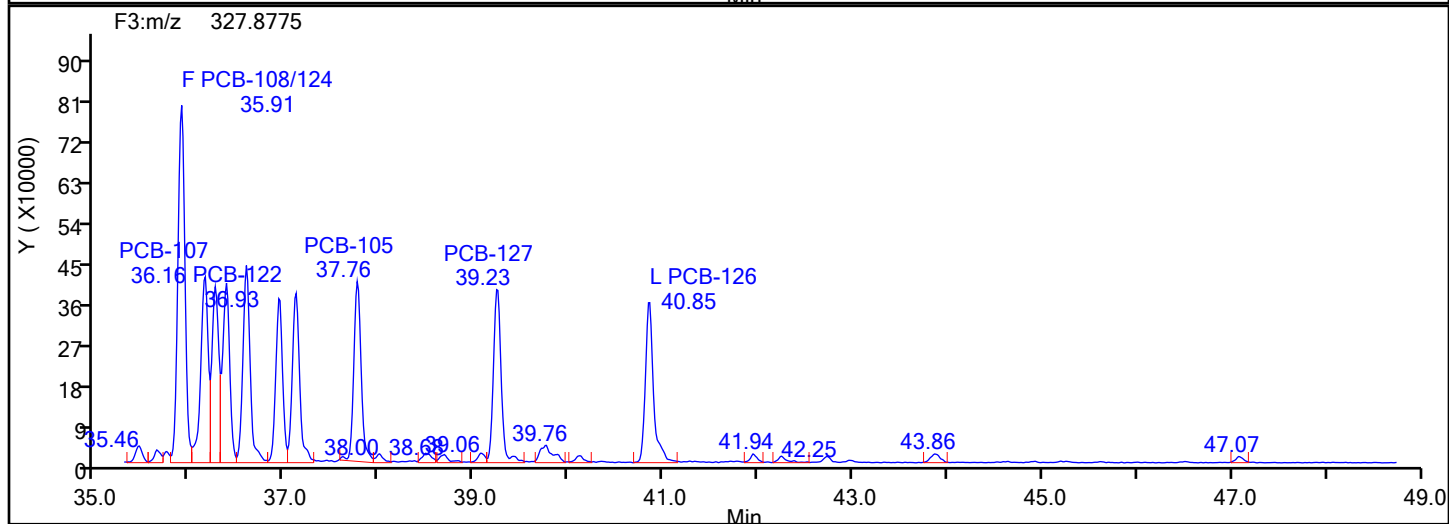
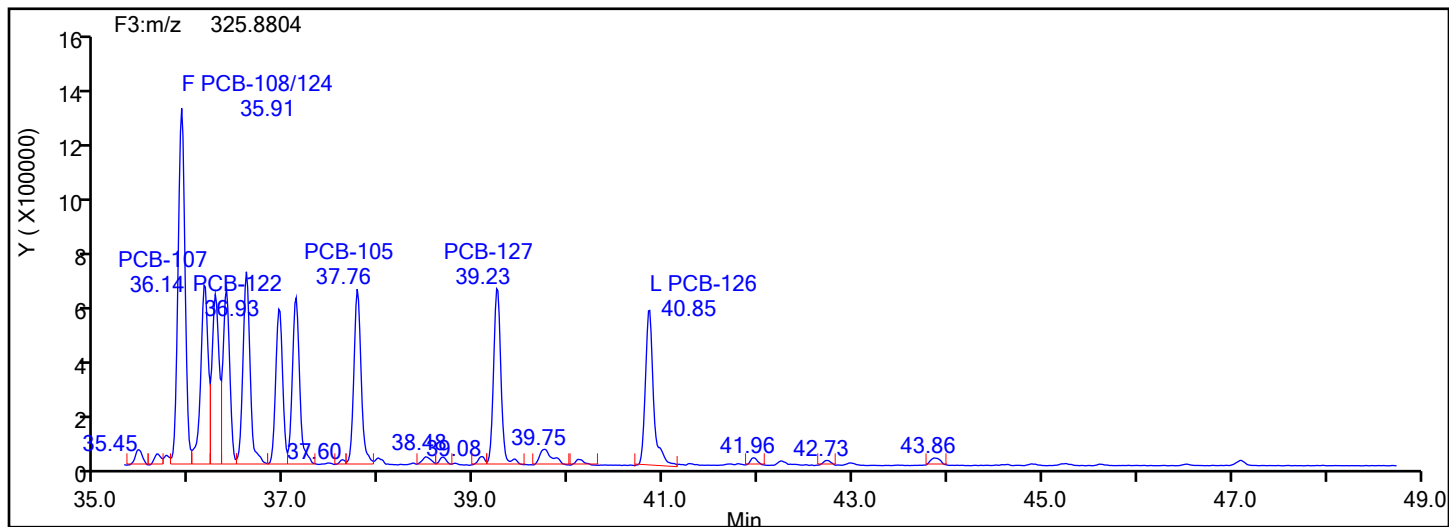
Worklist#: 87130

Sample Line#: 4

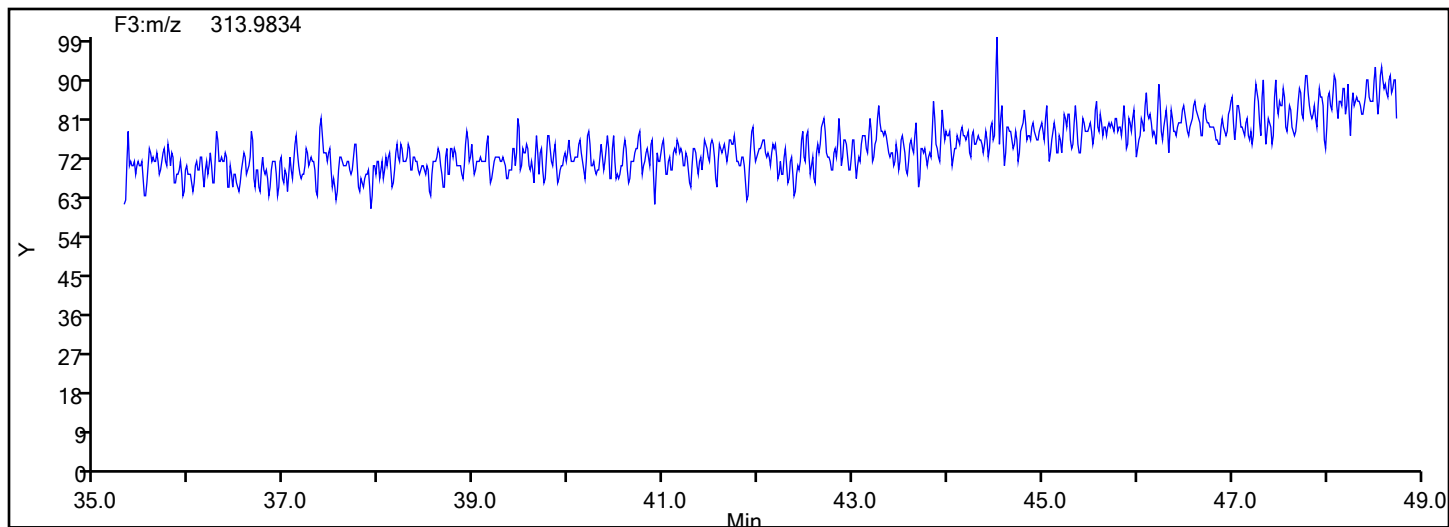
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

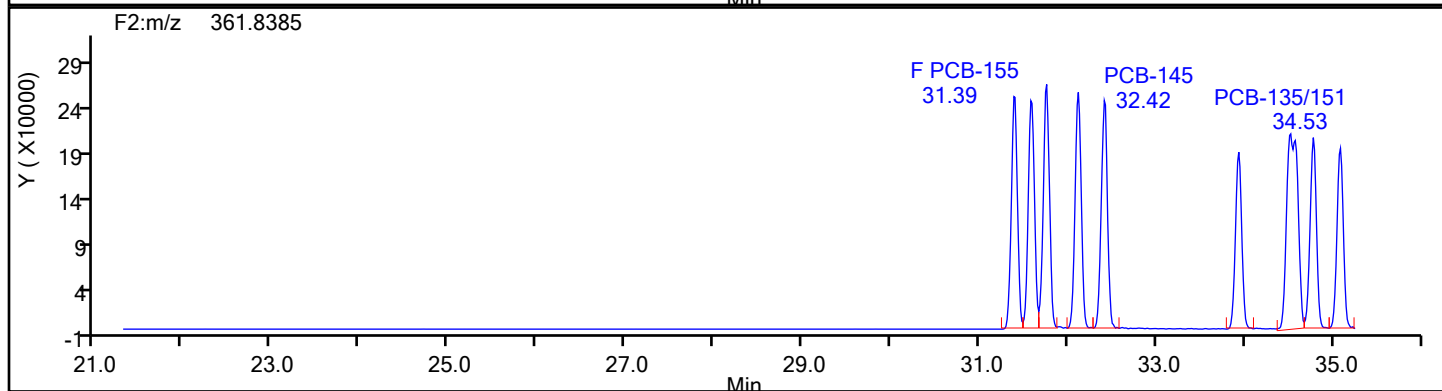
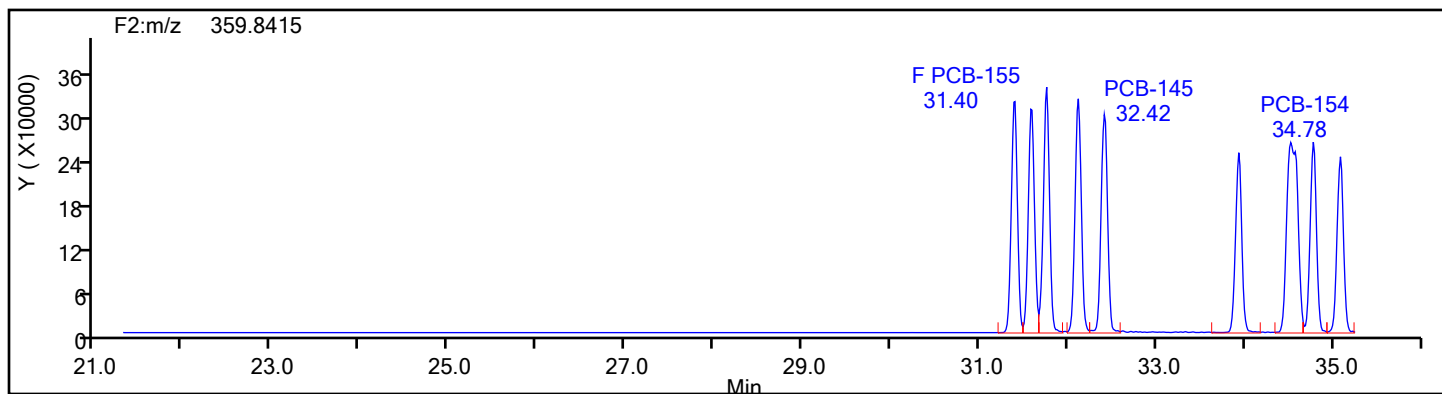
Worklist#: 87130

Sample Line#: 4

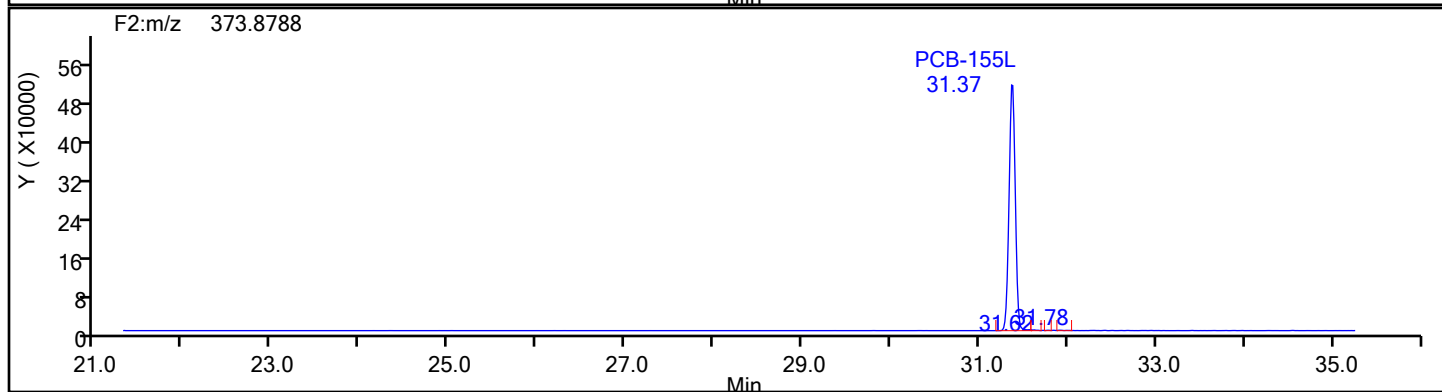
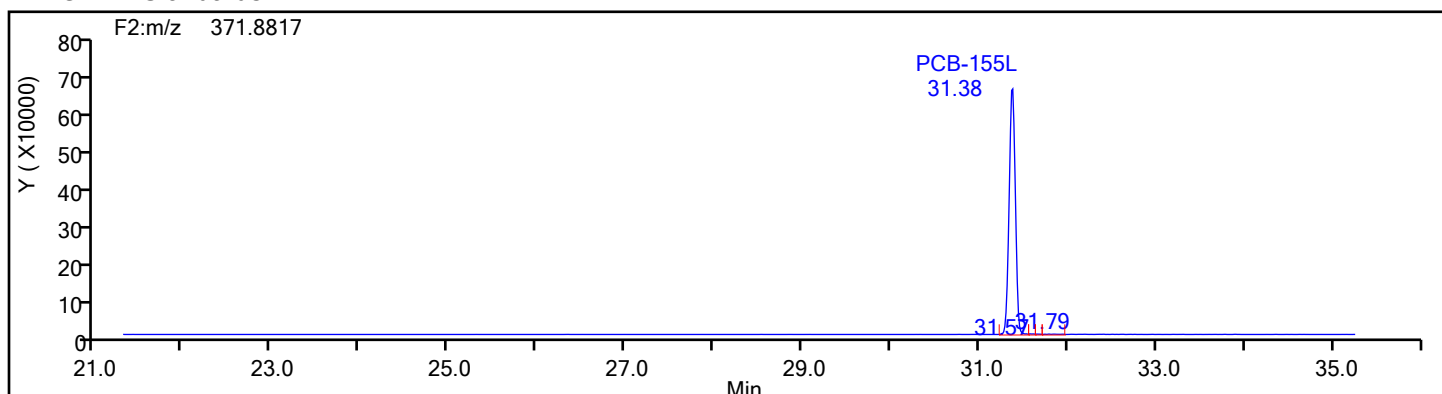
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxCPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

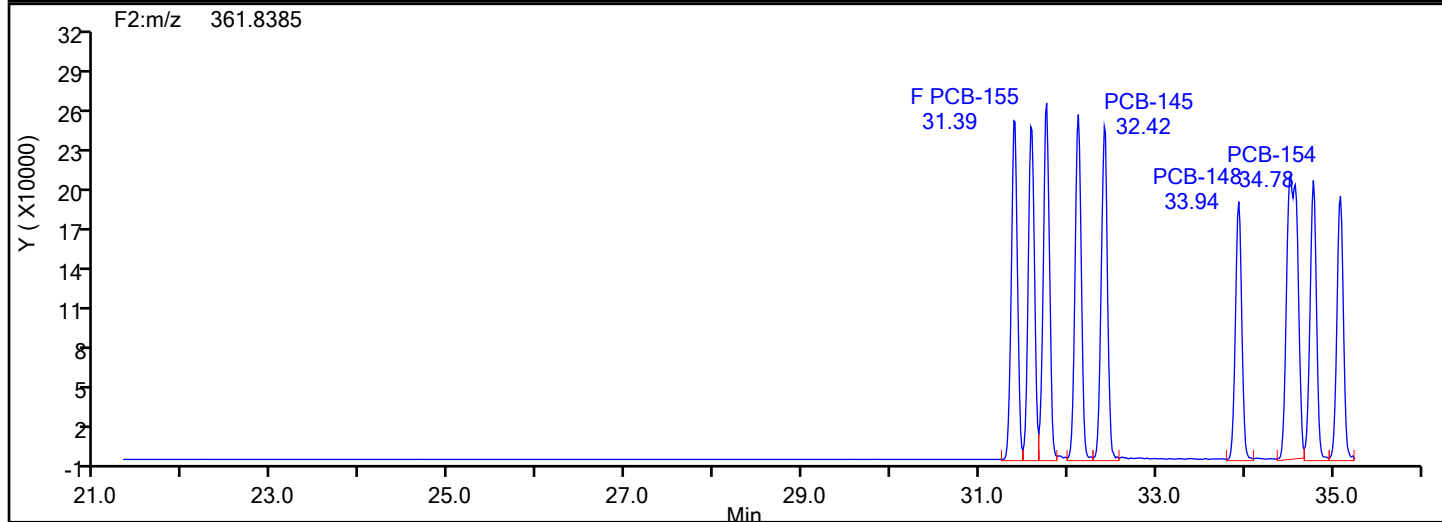
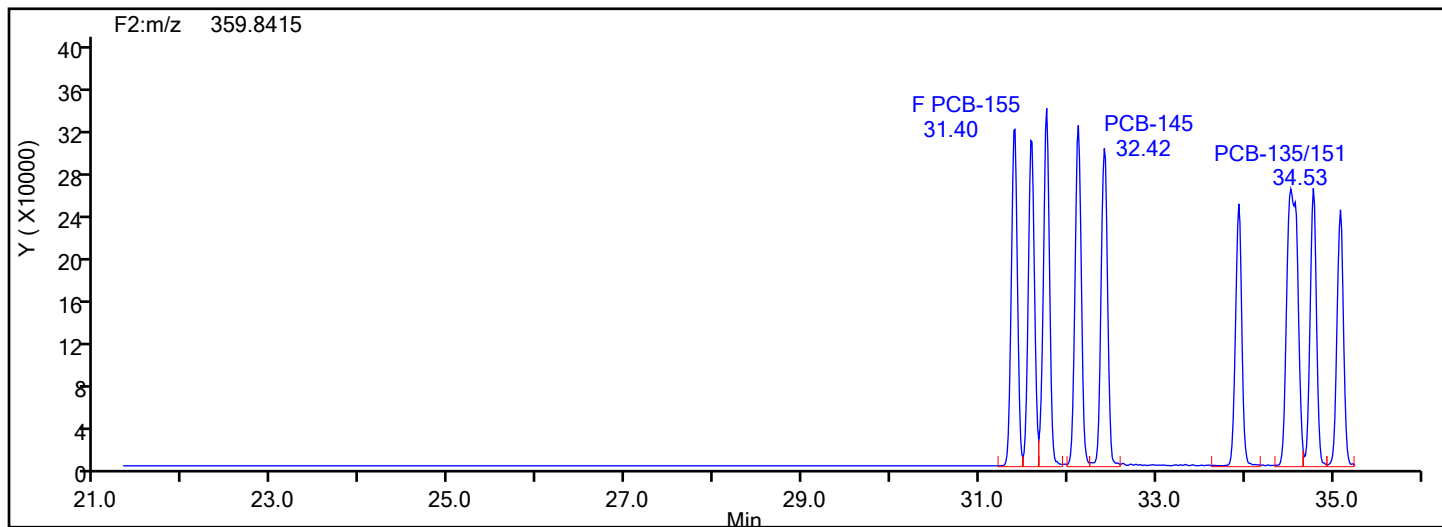
Worklist#: 87130

Sample Line#: 4

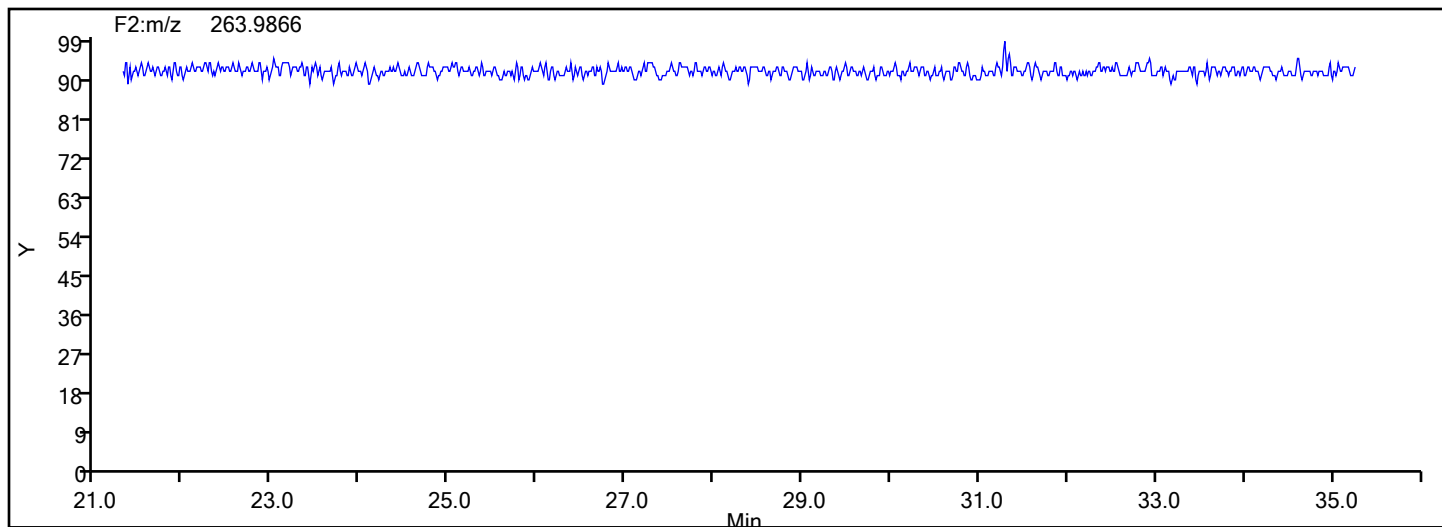
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

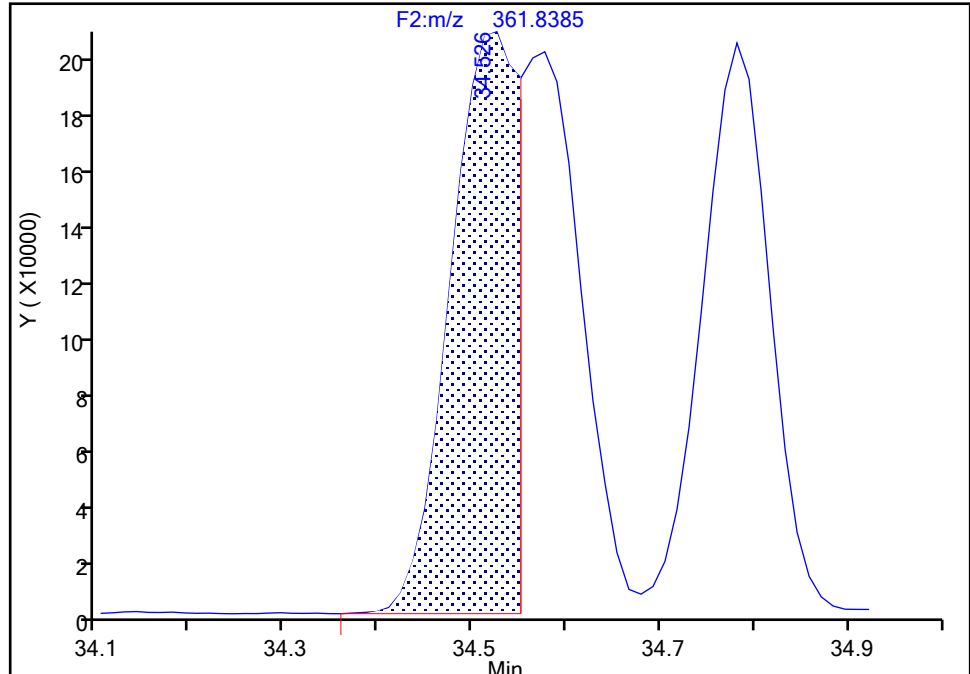
Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

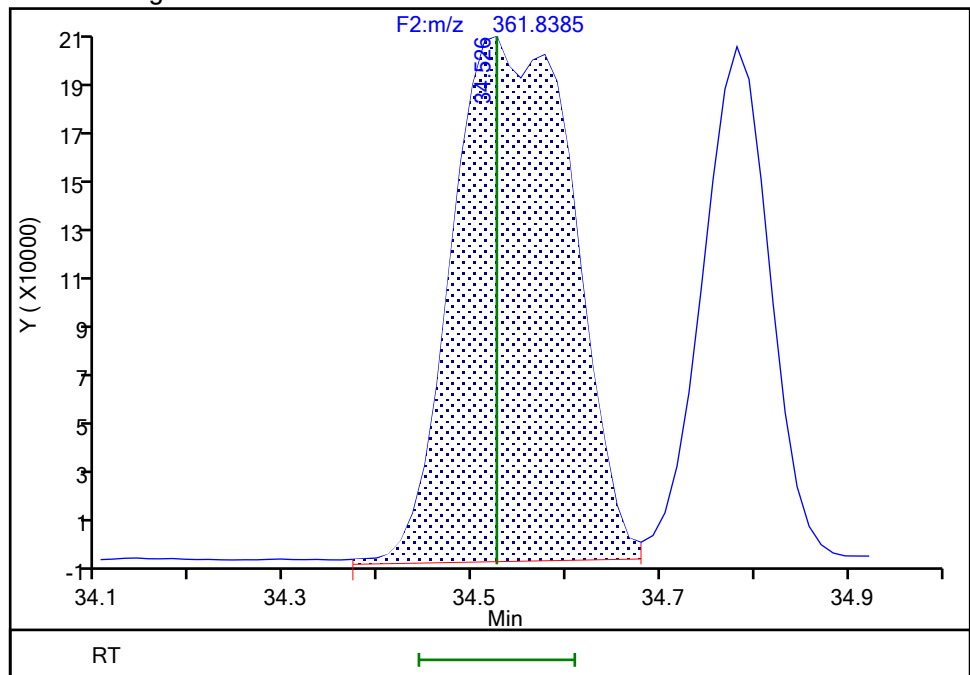
RT: 34.53
Area: 1006492
Amount: 89.546723
Amount Units: pg/ul

Processing Integration Results



RT: 34.53
Area: 1875309
Amount: 99.842500
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:54:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

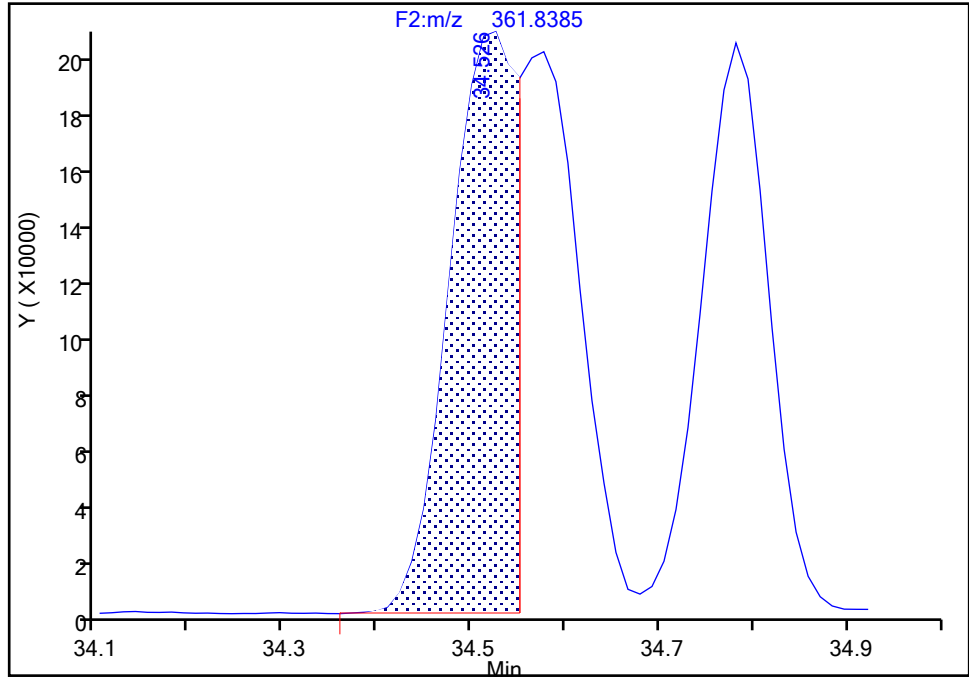
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

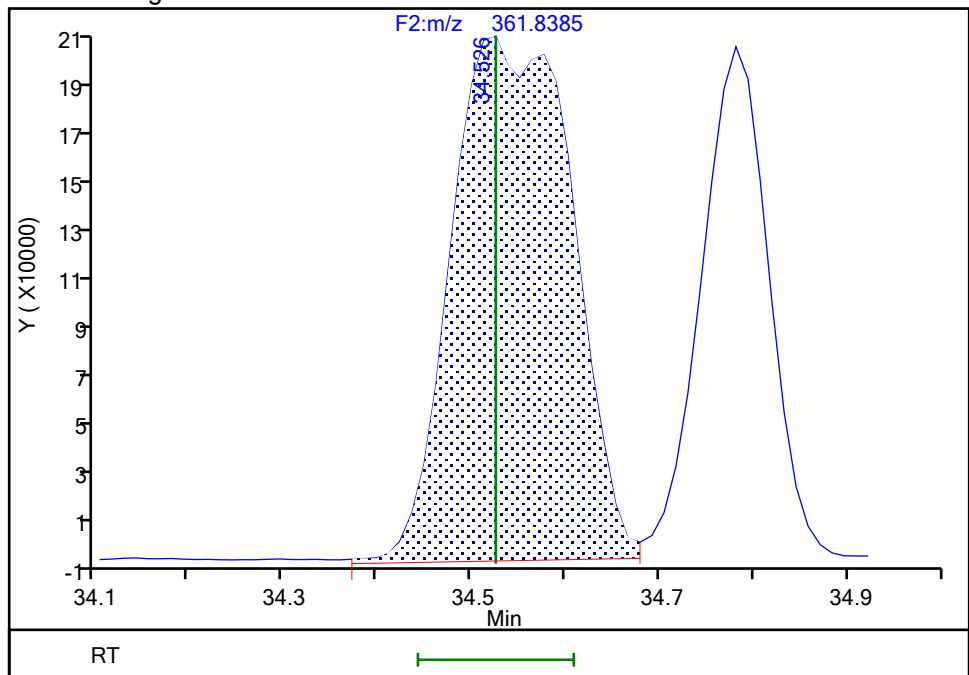
RT: 34.53
Area: 1006492
Amount: 89.546723
Amount Units: pg/ul

Processing Integration Results



RT: 34.53
Area: 1875309
Amount: 99.842500
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:54:17 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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BASFHWC-Gen20240531461

9/6/2024
2:43:26 PM

Eurofins Knoxville

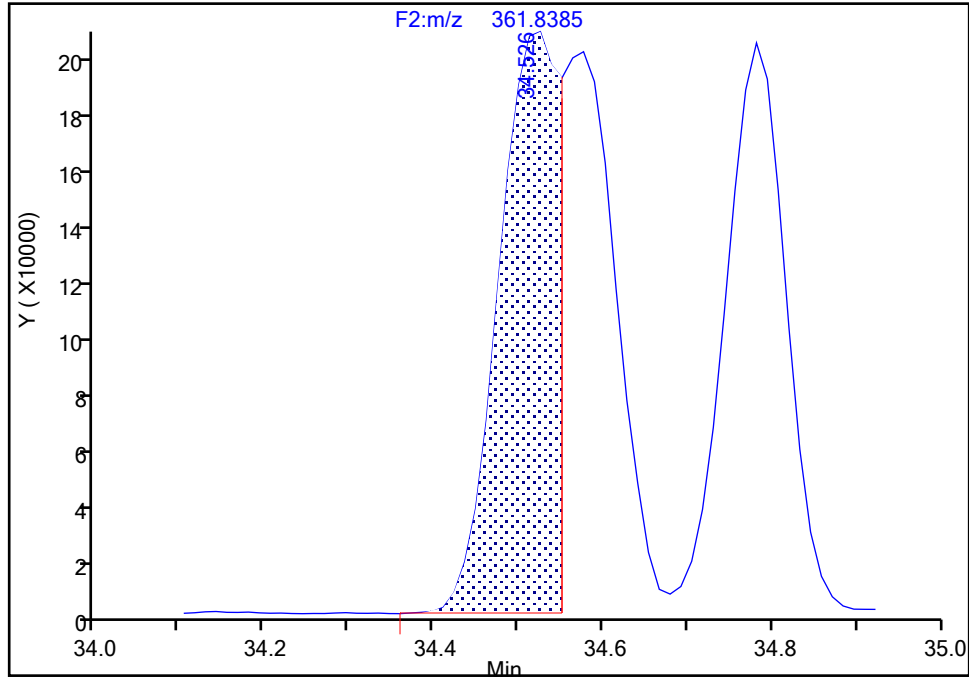
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 3

RT: 34.53
Area: 3323365
Amount: 89.546723
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 34.53
Area: 4192182
Amount: 99.842500
Amount Units: pg/ul

Reviewer: V4XA, 31-May-2024 20:54:17 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

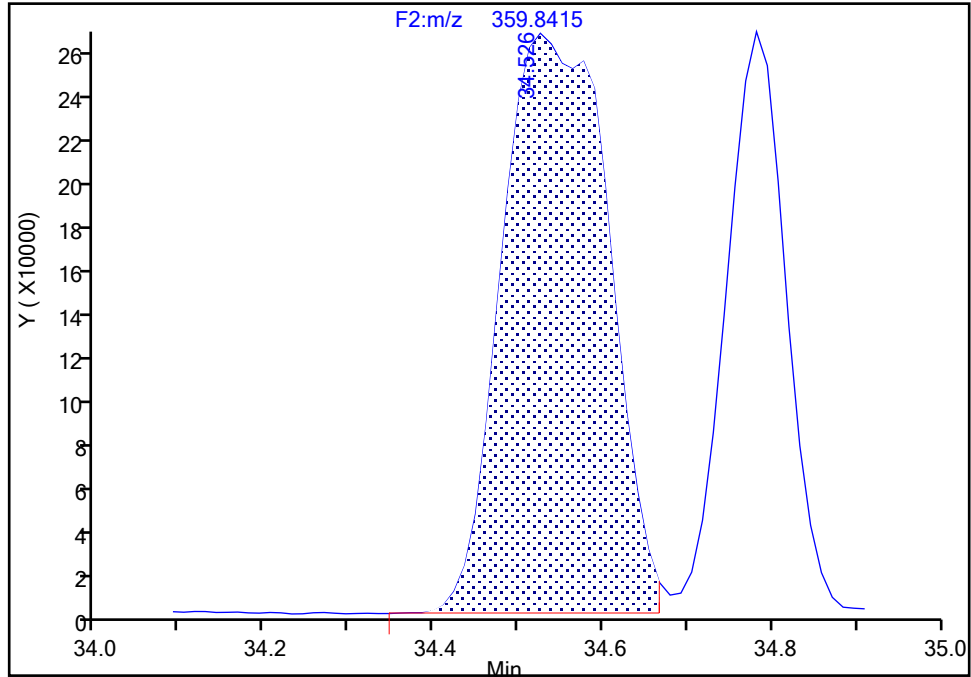
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

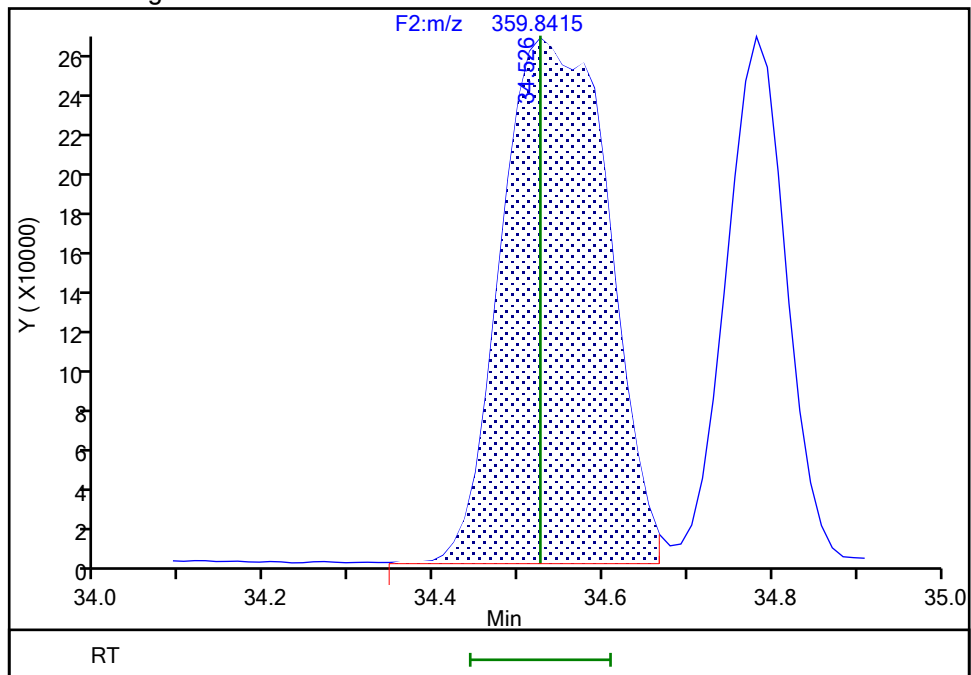
RT: 34.53
Area: 2316873
Amount: 89.546723
Amount Units: pg/ul

Processing Integration Results



RT: 34.53
Area: 2316873
Amount: 99.842500
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:54:19 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

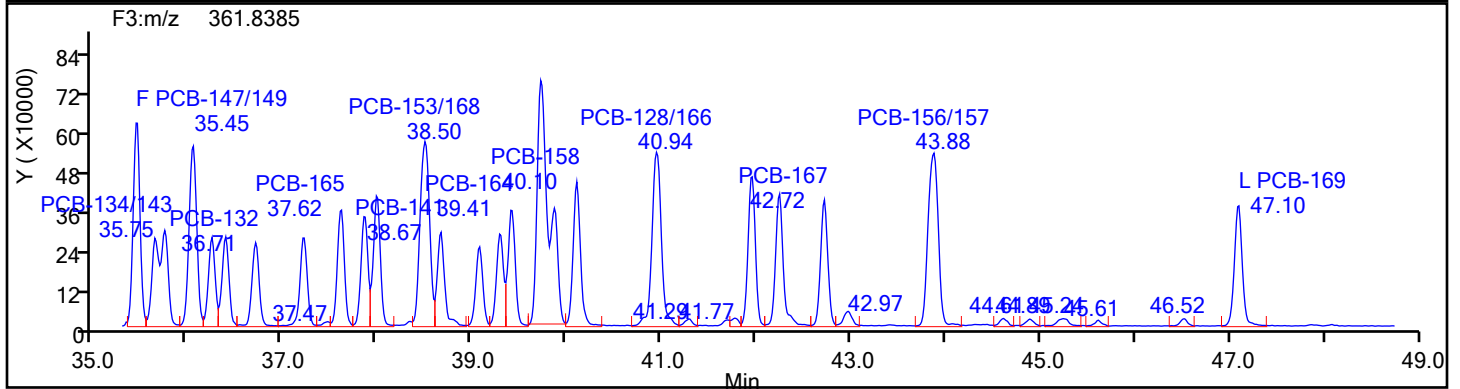
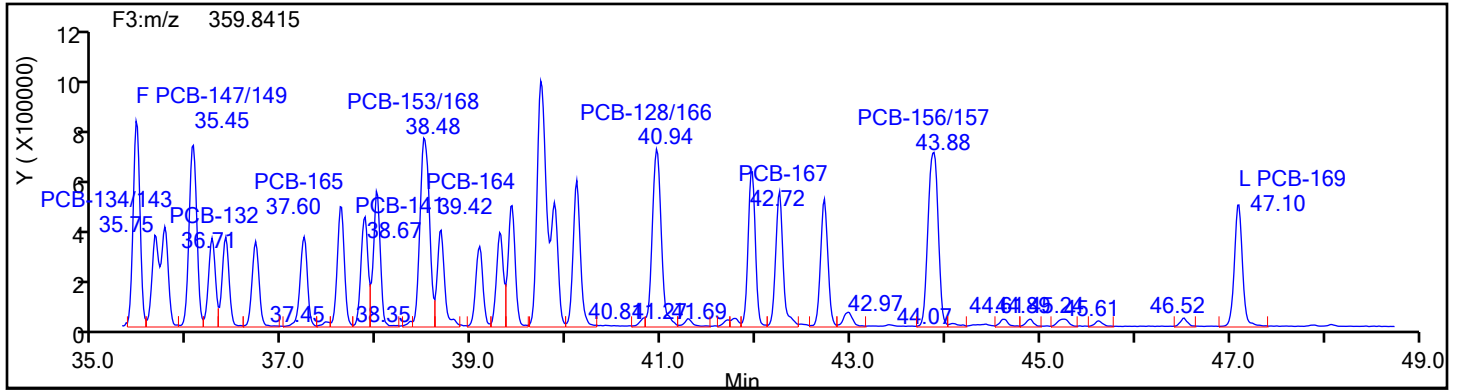
Worklist#: 87130

Sample Line#: 4

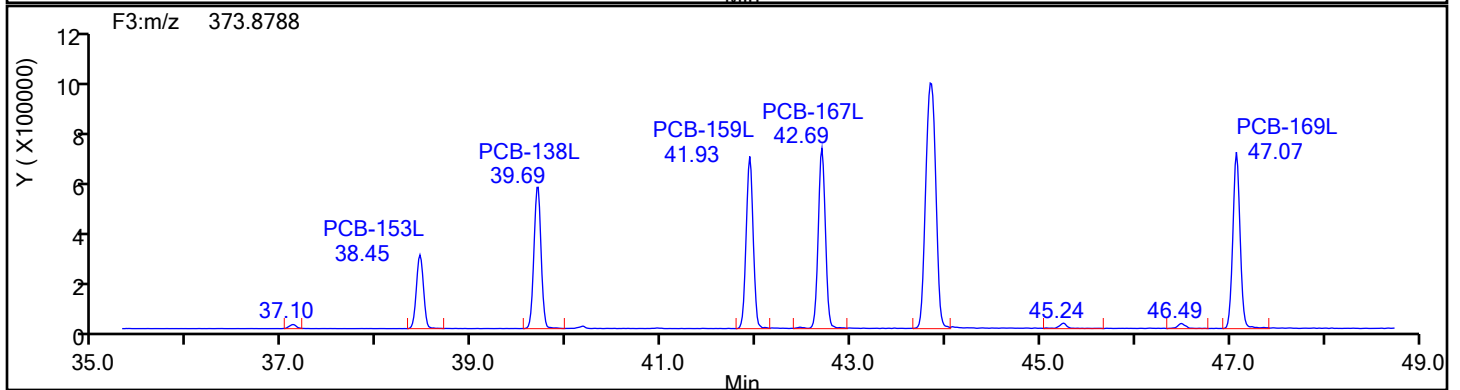
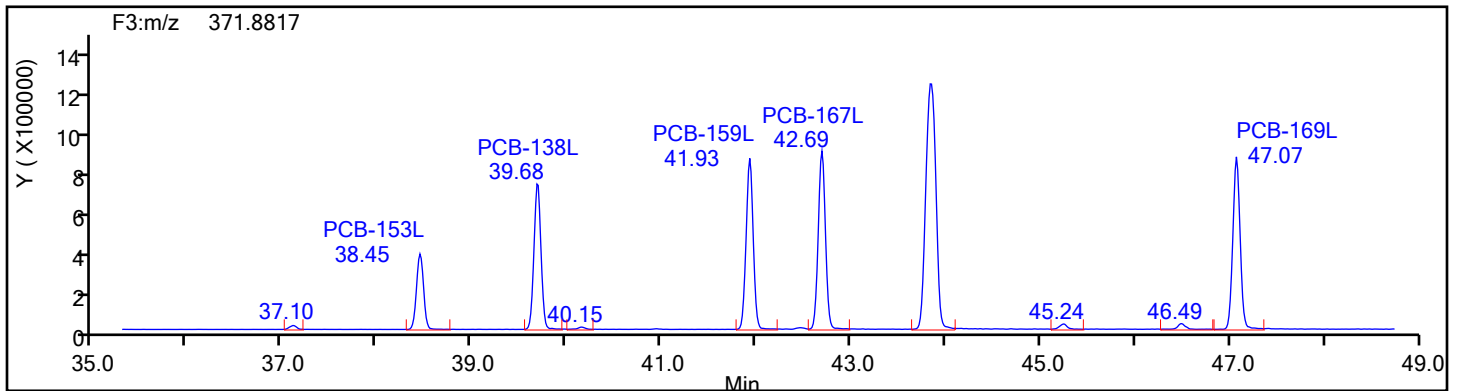
Column Type: SPB-Octyl

Column Dia: 0.25 mm

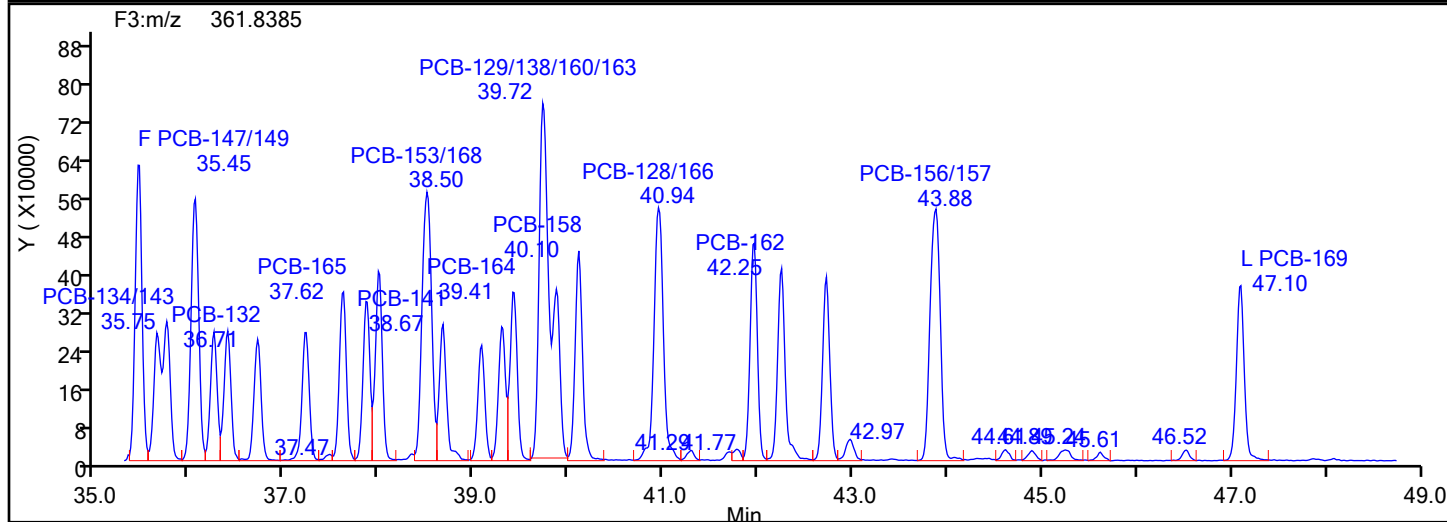
HxPCB F3



HxPCB F3 Standards



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d		
Injection Date:	31-May-2024 19:10:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	87130	Sample Line#:	4
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
HxPCB F3			



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

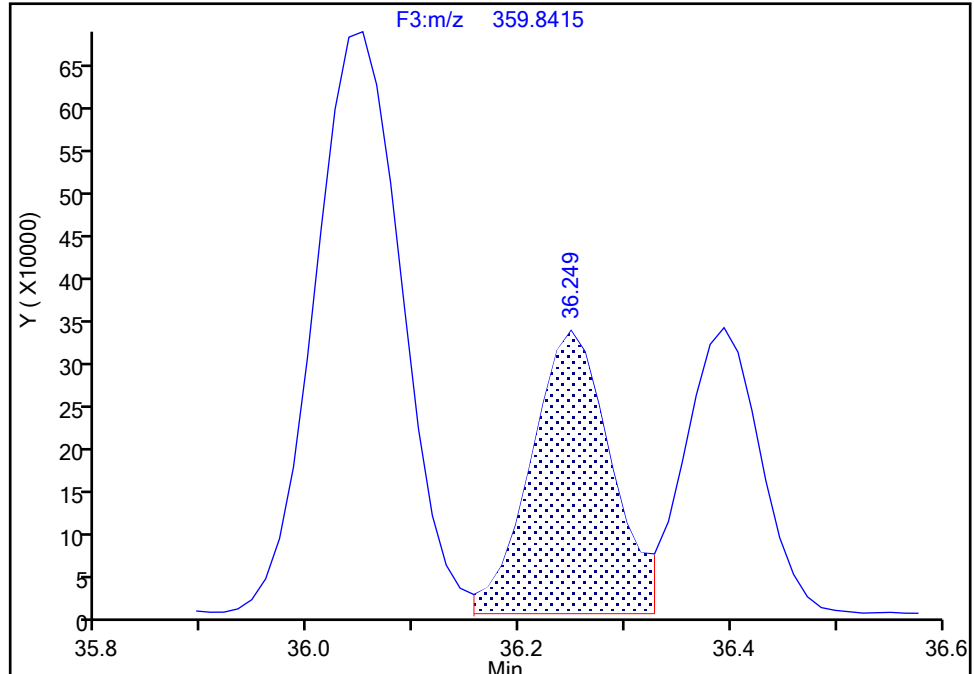
Detector F3(35.64 :49.10)

PCB-131, CAS: 61798-70-7

Signal: 1

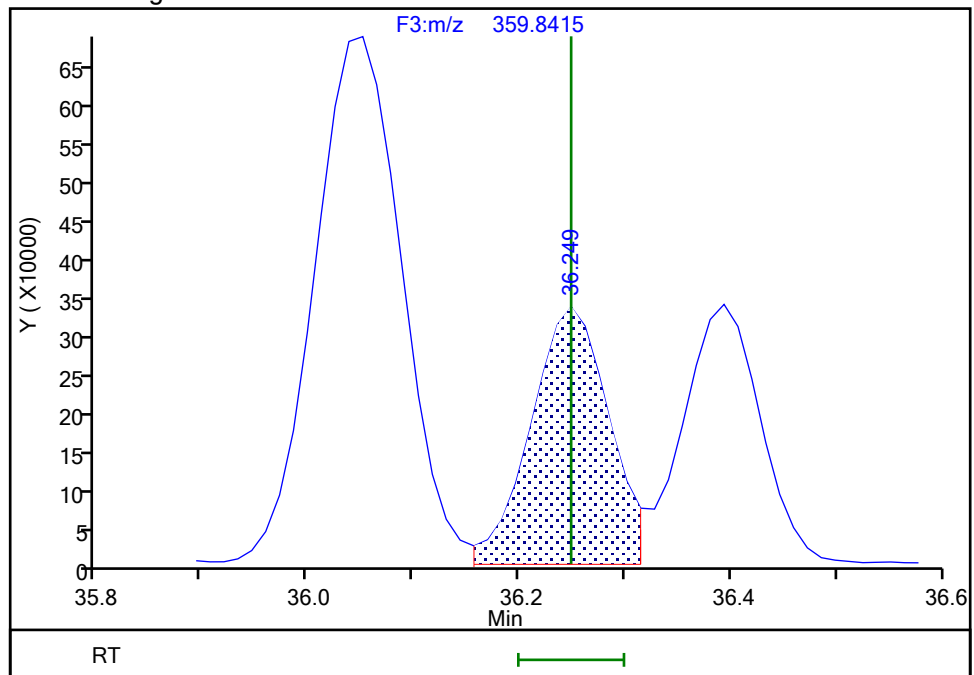
RT: 36.25
Area: 1750783
Amount: 48.362613
Amount Units: pg/ul

Processing Integration Results



RT: 36.25
Area: 1687175
Amount: 49.486092
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:37:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

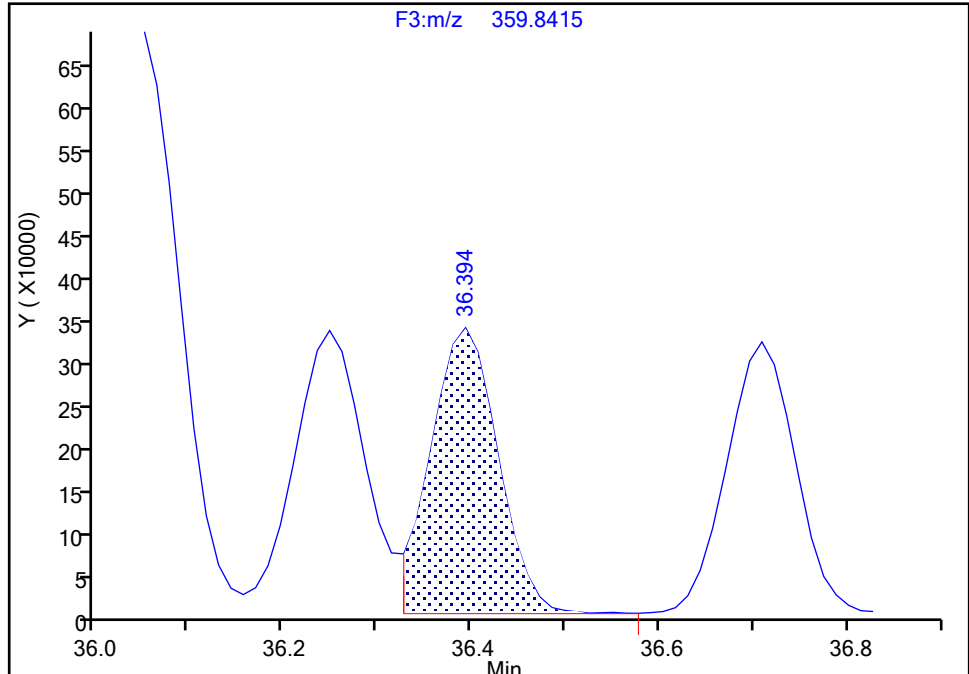
Detector F3(35.64 :49.10)

PCB-142, CAS: 41411-61-4

Signal: 1

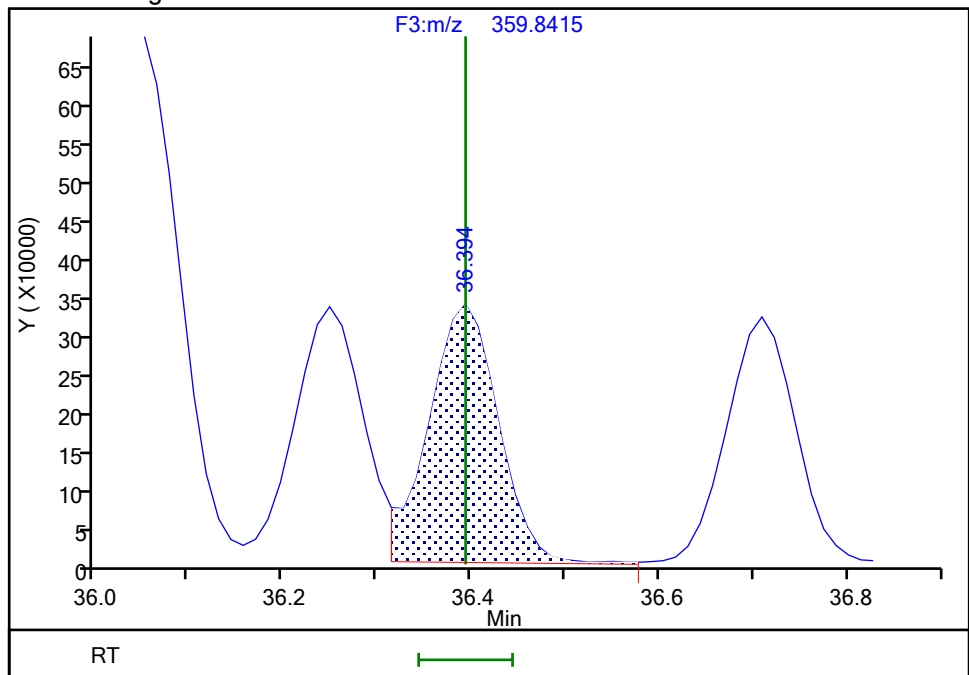
RT: 36.39
Area: 1682262
Amount: 49.938791
Amount Units: pg/ul

Processing Integration Results



RT: 36.39
Area: 1733270
Amount: 51.034948
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:37:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

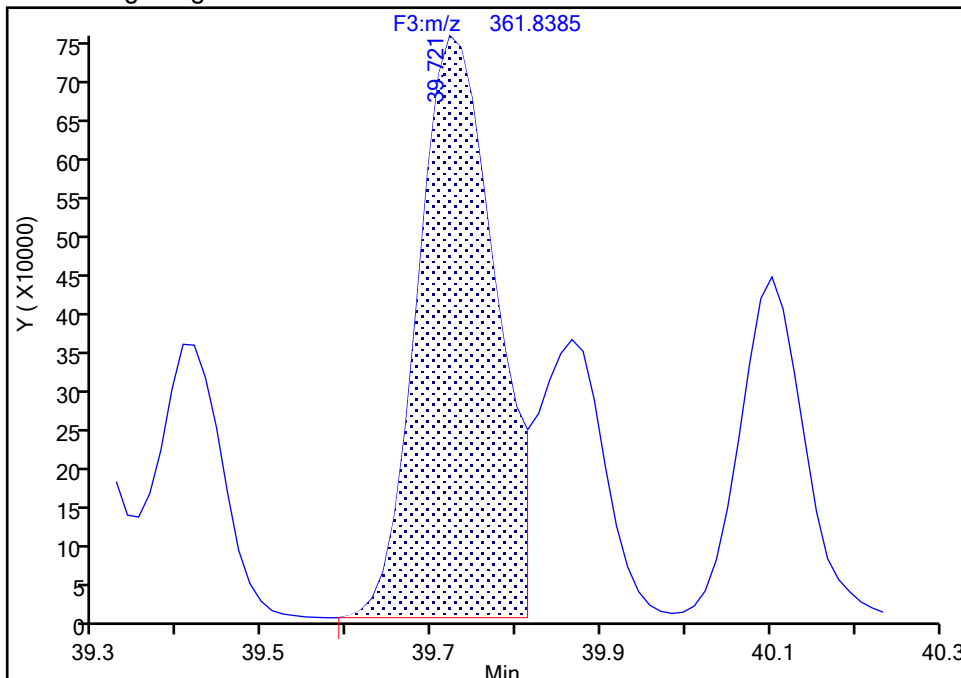
Audit Reason: Baseline

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d		
Injection Date:	31-May-2024 19:10:00	Instrument ID:	D2D
Lims ID:	IC L4		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23
Column:	SPB-Octyl (0.25 mm)	Detector	F3(35.64 :49.1

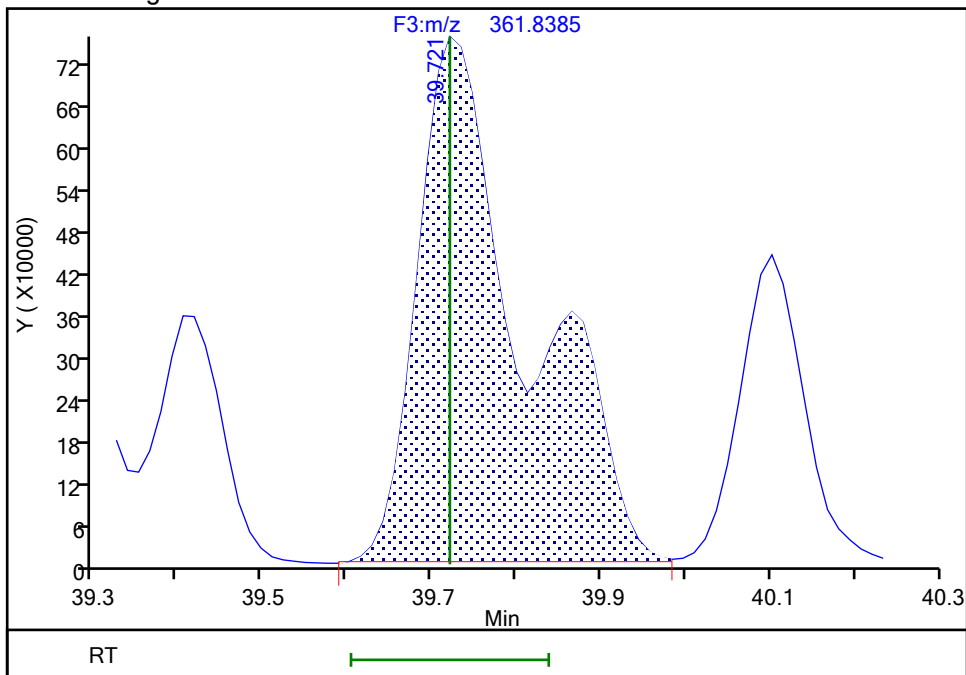
ALS Bottle#:	0	Worklist Smp#:	4
Dil. Factor:	1.0000		
Limit Group:	HR - EPA_23 PCB ICAL		
Detector	F3(35.64 :49.10)		

Signal: 2

Processing Integration Results



Manual Integration Results



Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

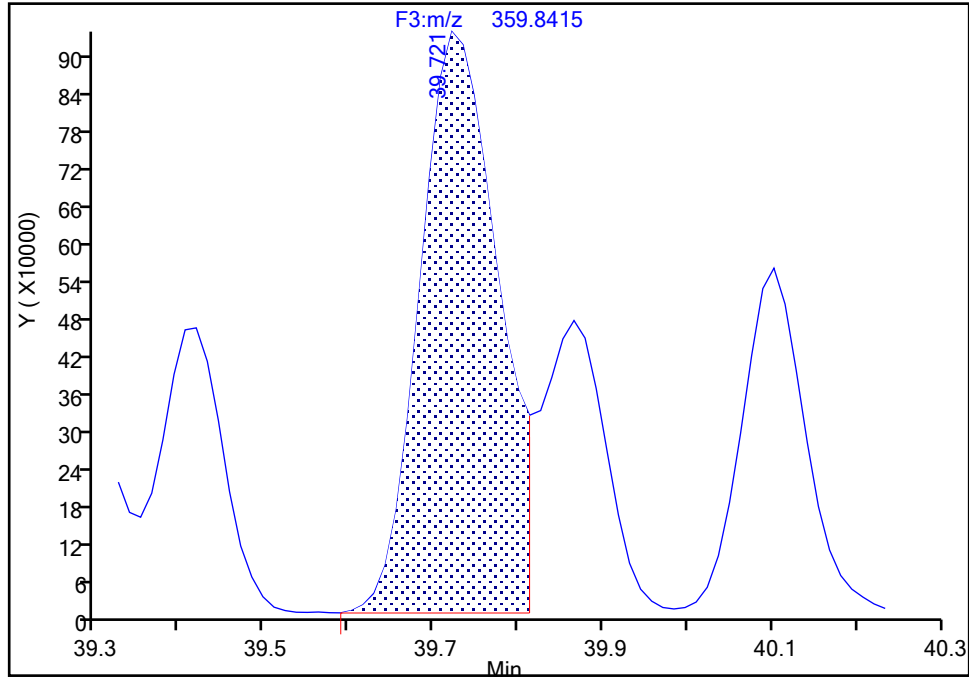
Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

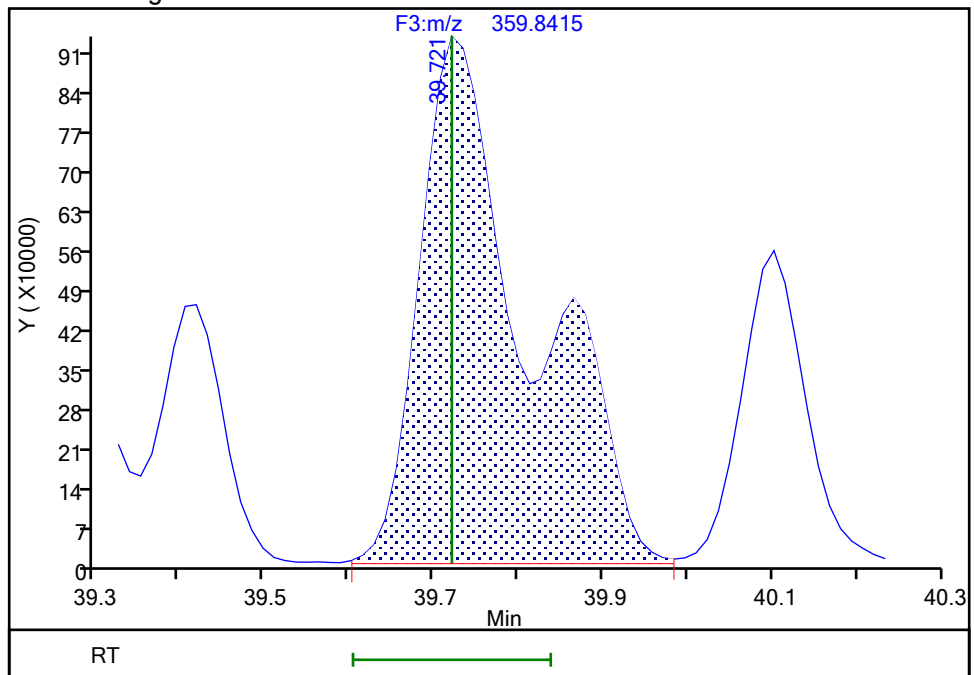
RT: 39.72
Area: 5977025
Amount: 156.8483
Amount Units: pg/ul

Processing Integration Results



RT: 39.72
Area: 8427795
Amount: 196.3569
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:27:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

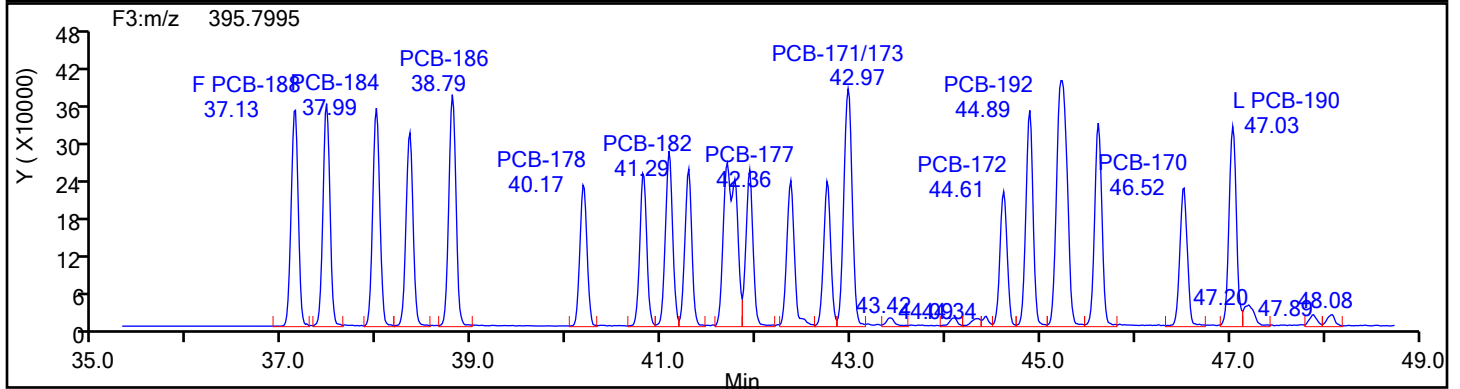
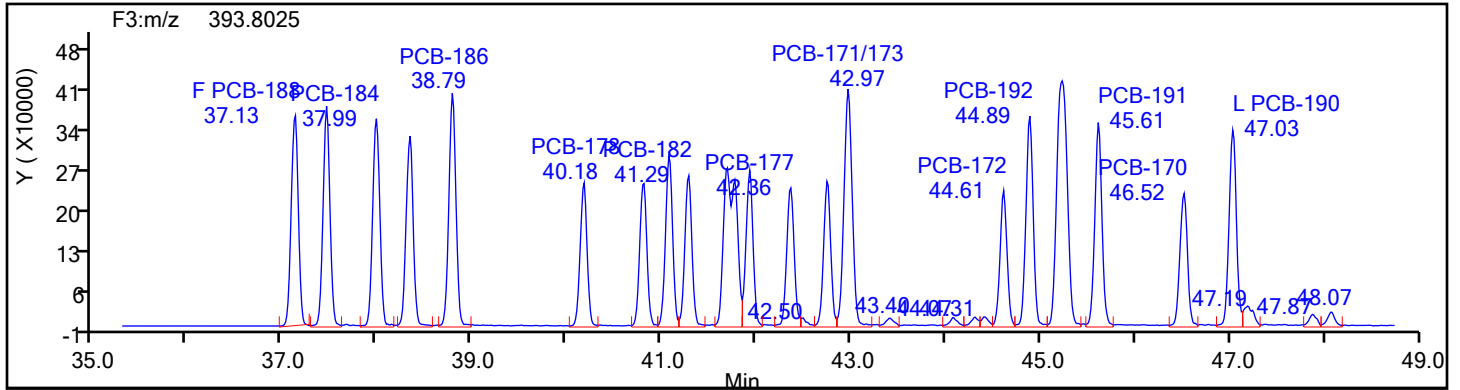
Worklist#: 87130

Sample Line#: 4

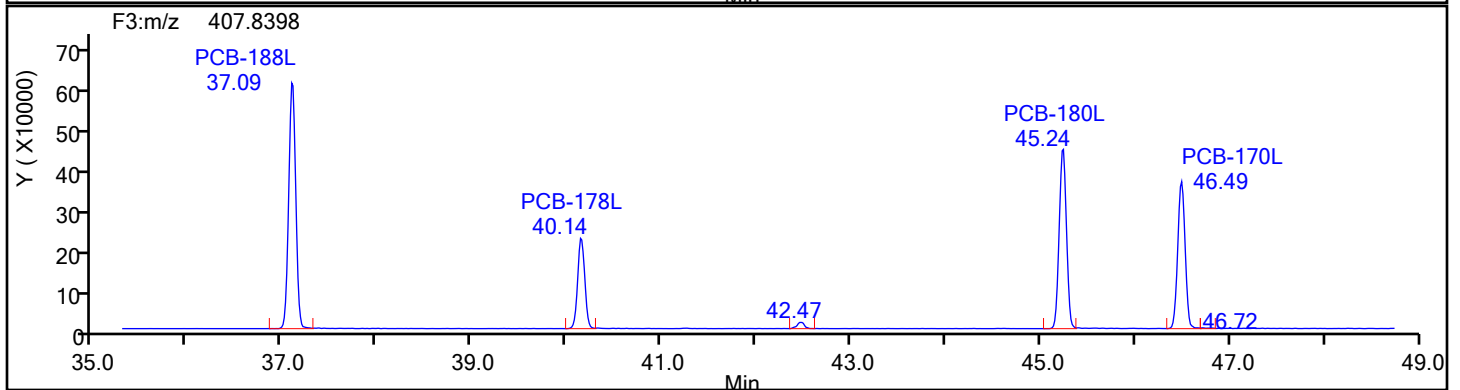
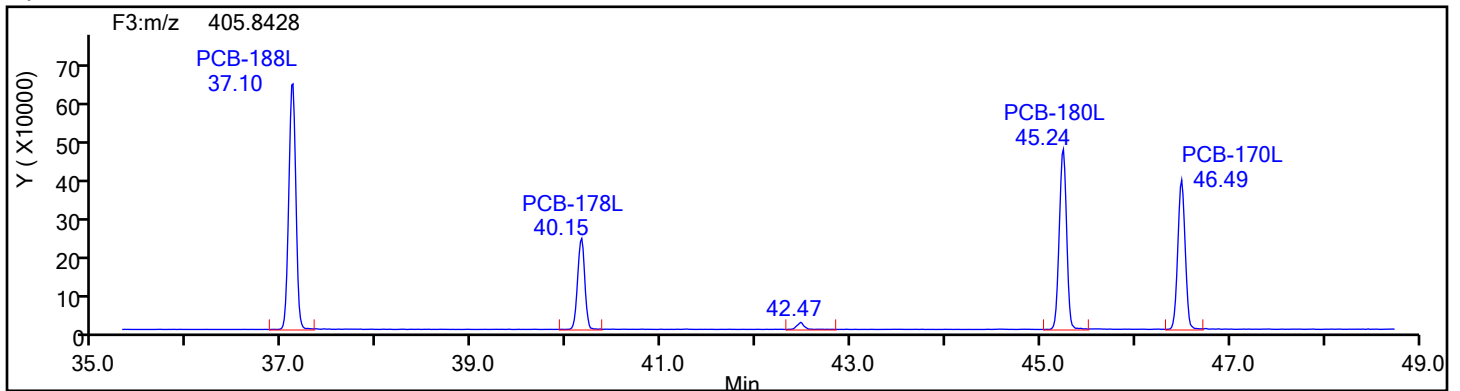
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

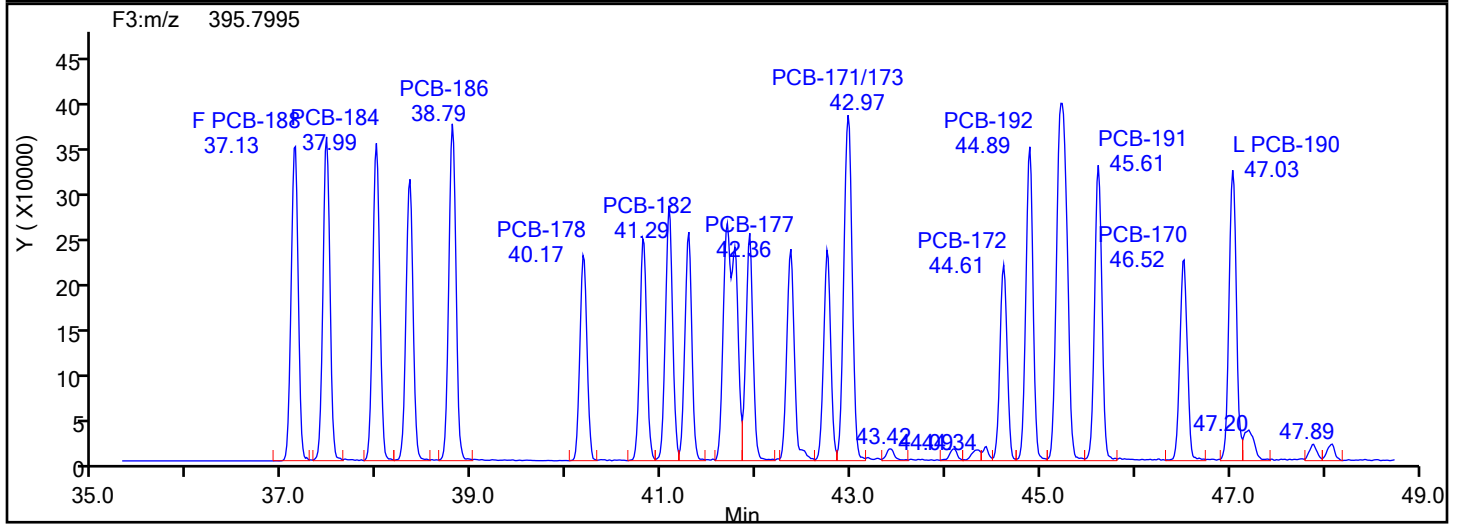
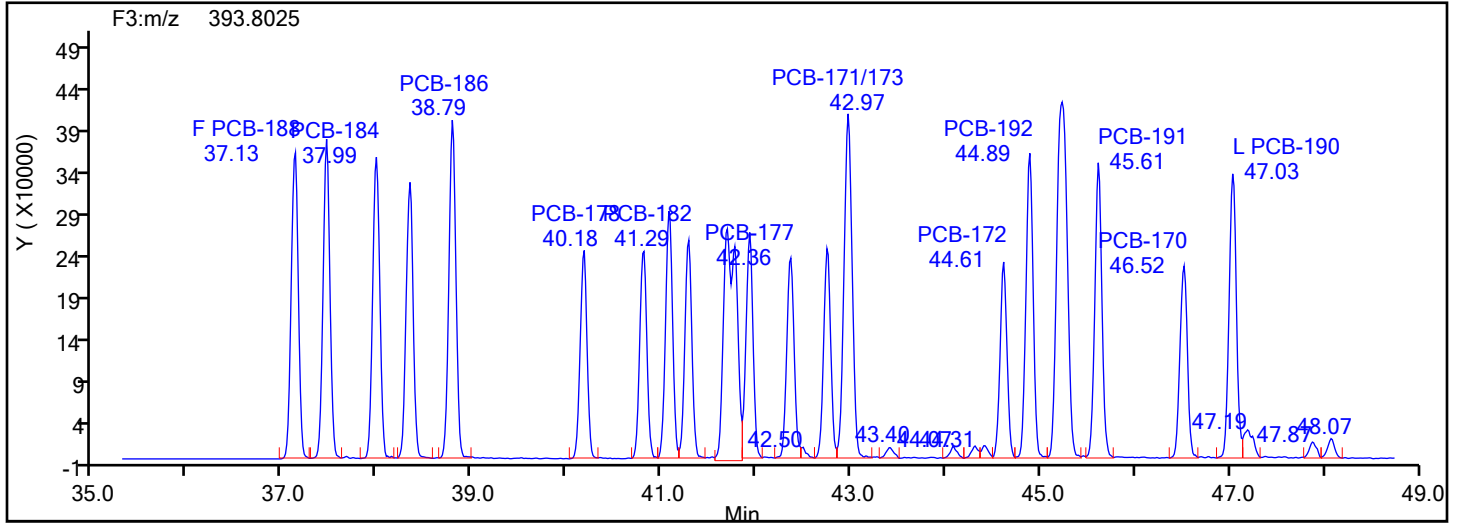
Worklist#: 87130

Sample Line#: 4

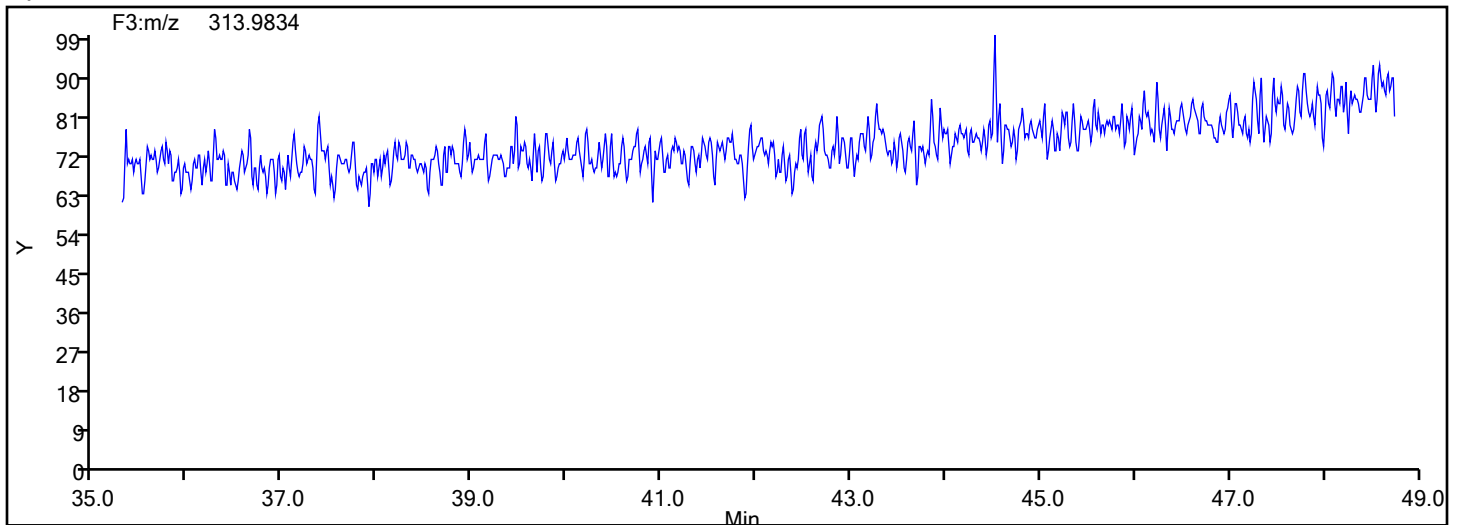
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

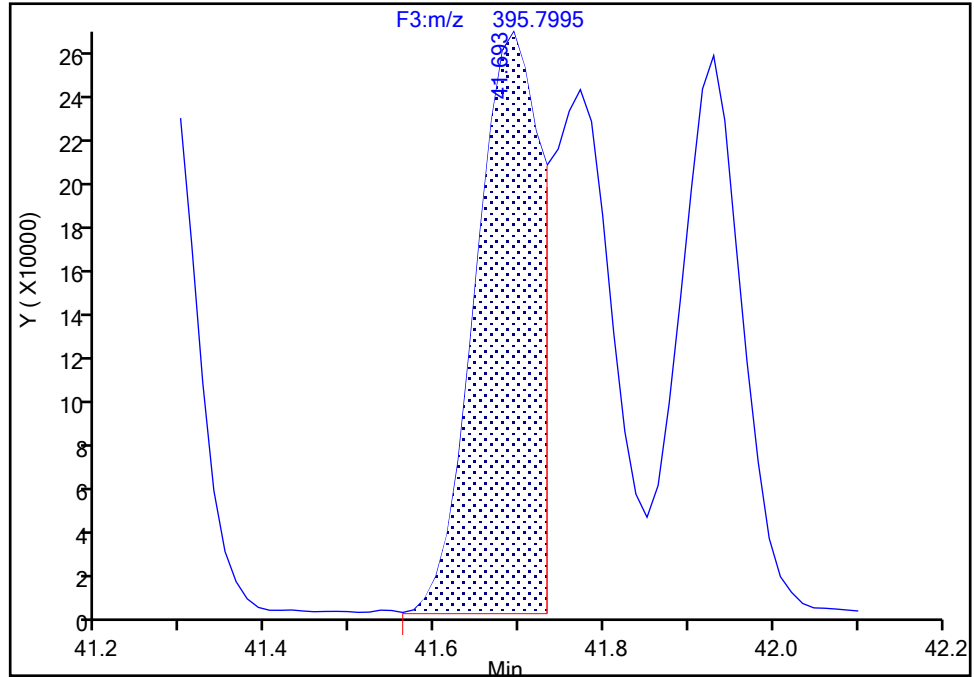
Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

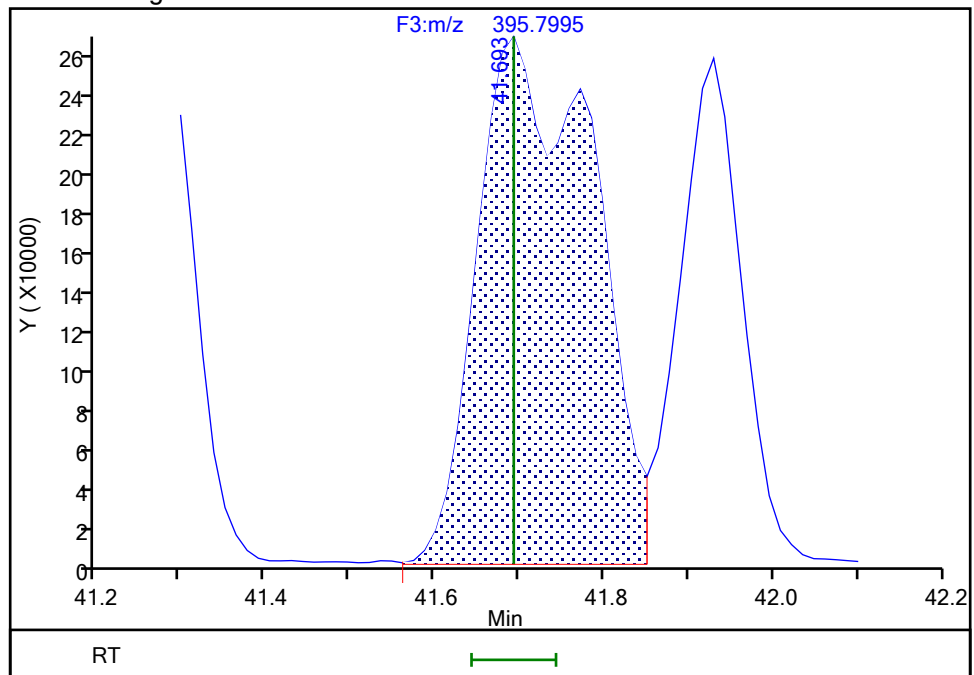
RT: 41.69
Area: 1353022
Amount: 58.163319
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 2486532
Amount: 96.902129
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:28:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#:

4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

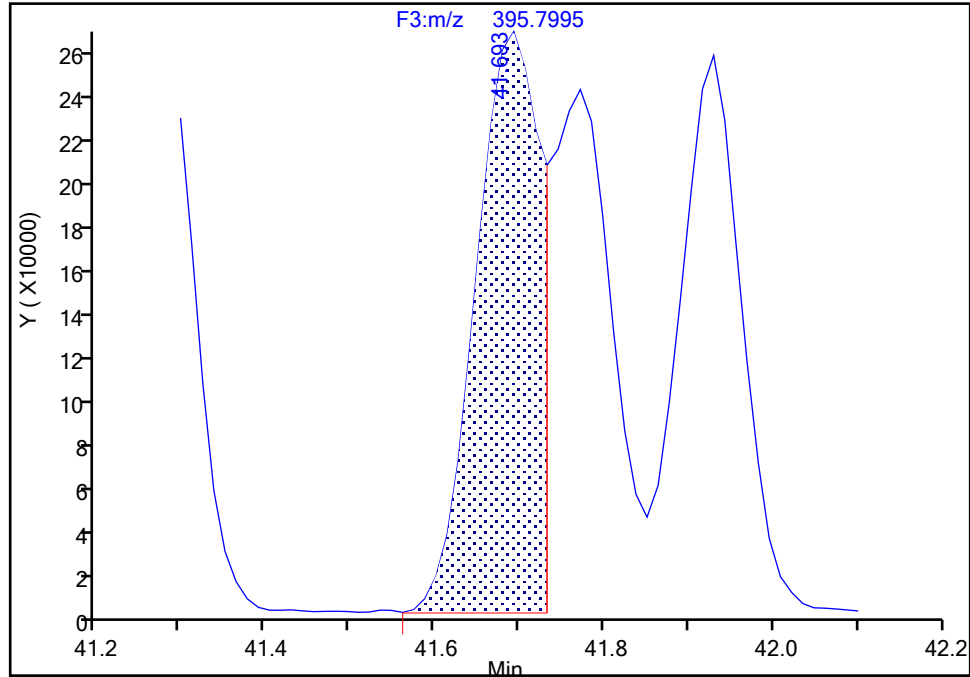
F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

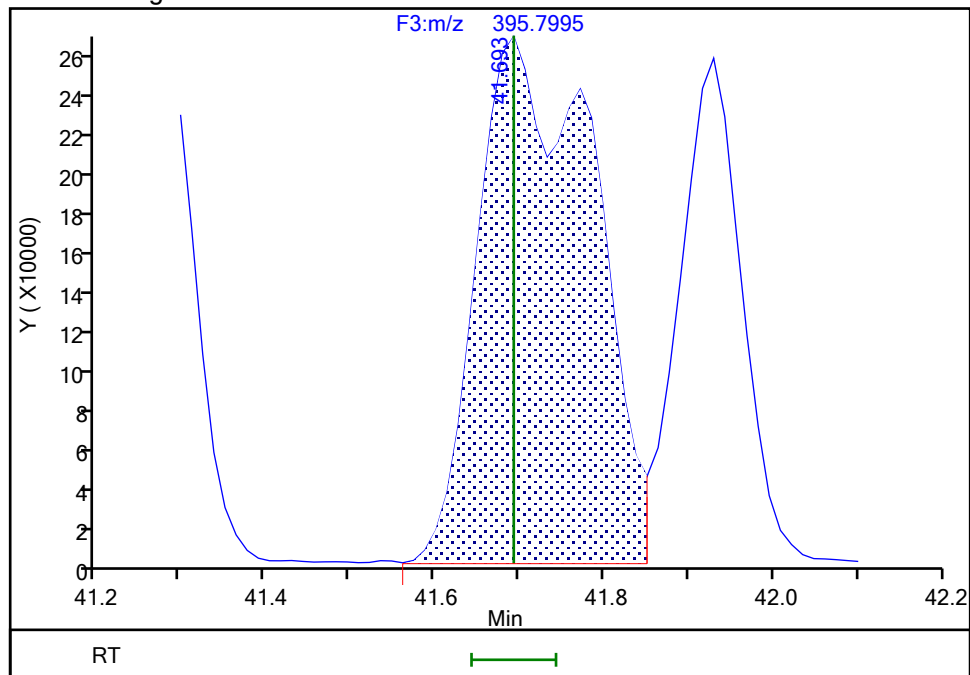
RT: 41.69
Area: 1353022
Amount: 58.163319
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 2486532
Amount: 96.902129
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:28:23 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

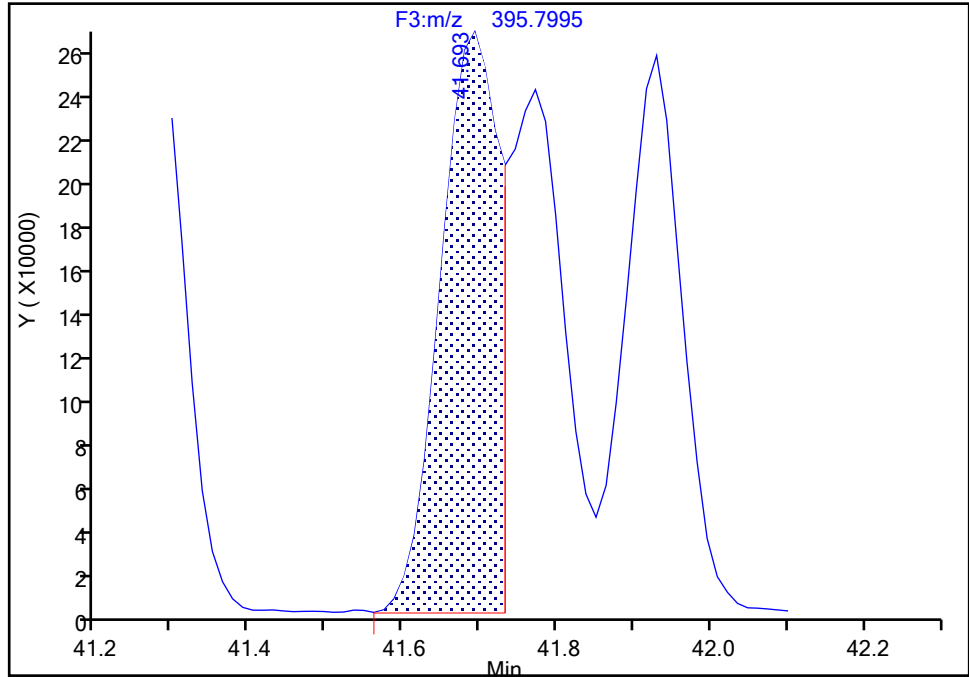
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 3

RT: 41.69
Area: 2755275
Amount: 58.163319
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 41.69
Area: 5114533
Amount: 96.902129
Amount Units: pg/ul

Reviewer: V4XA, 31-May-2024 21:28:23 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

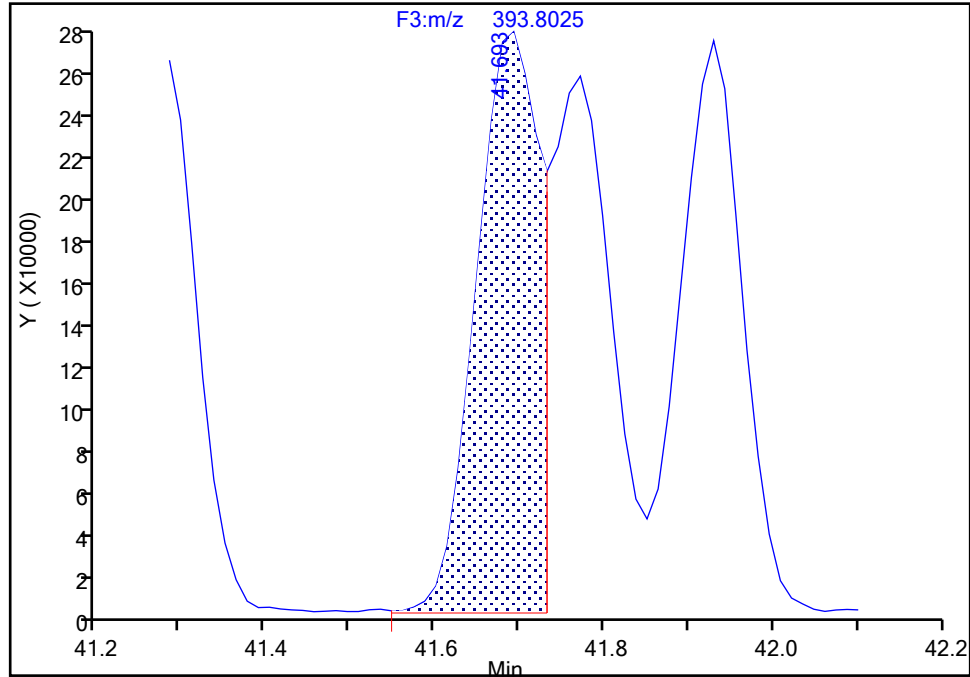
F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

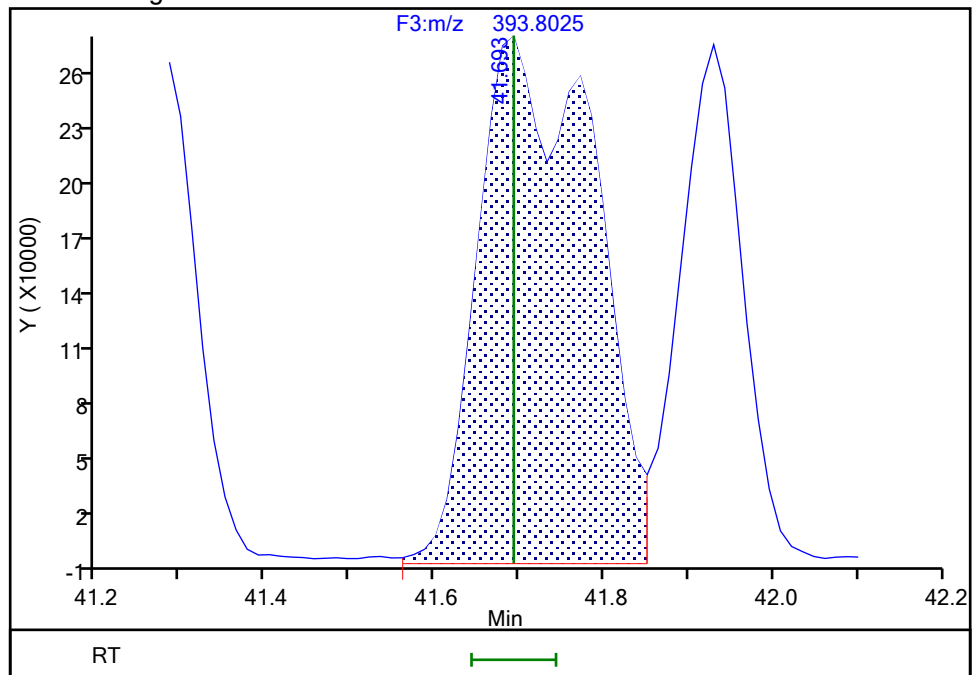
RT: 41.69
Area: 1402253
Amount: 58.163319
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 2628001
Amount: 96.902129
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:28:26 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

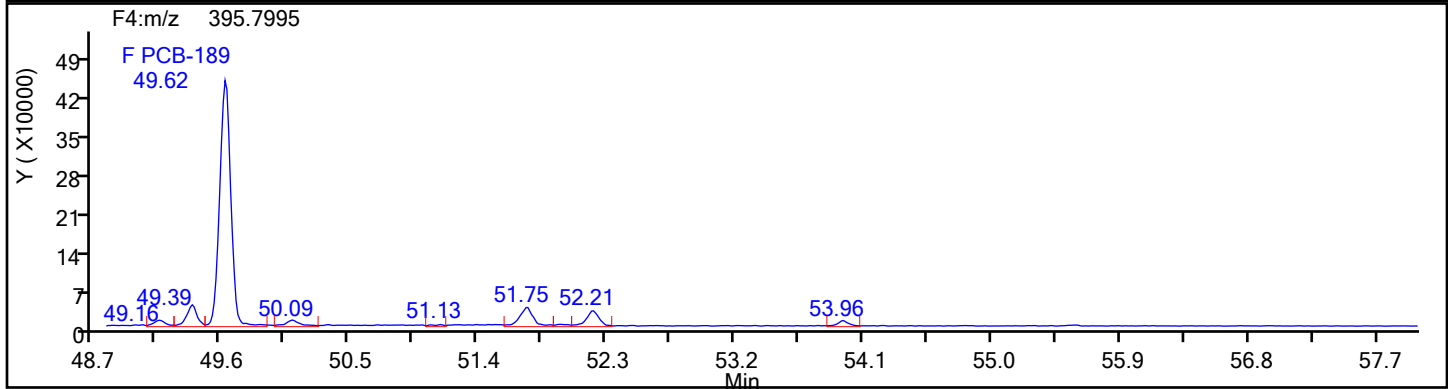
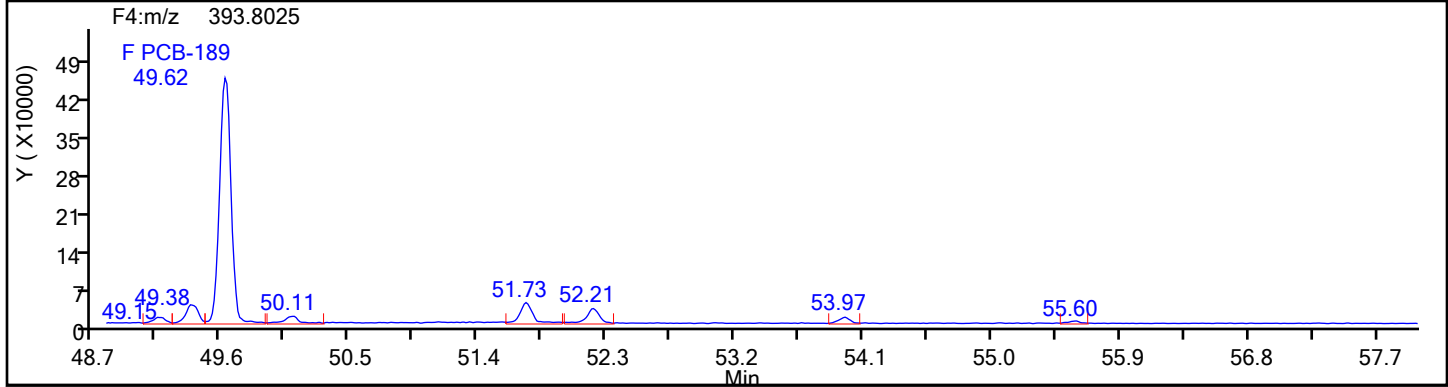
Worklist#: 87130

Sample Line#: 4

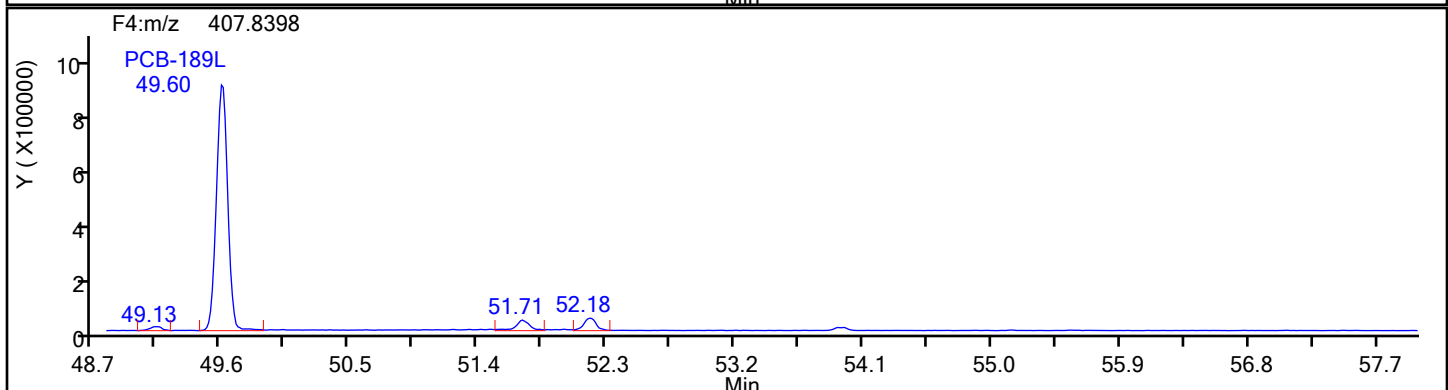
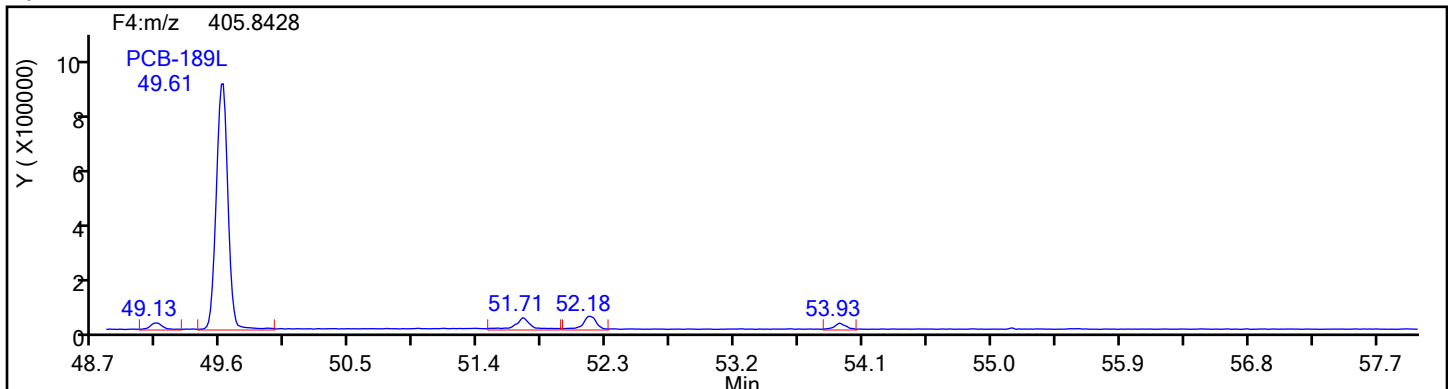
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

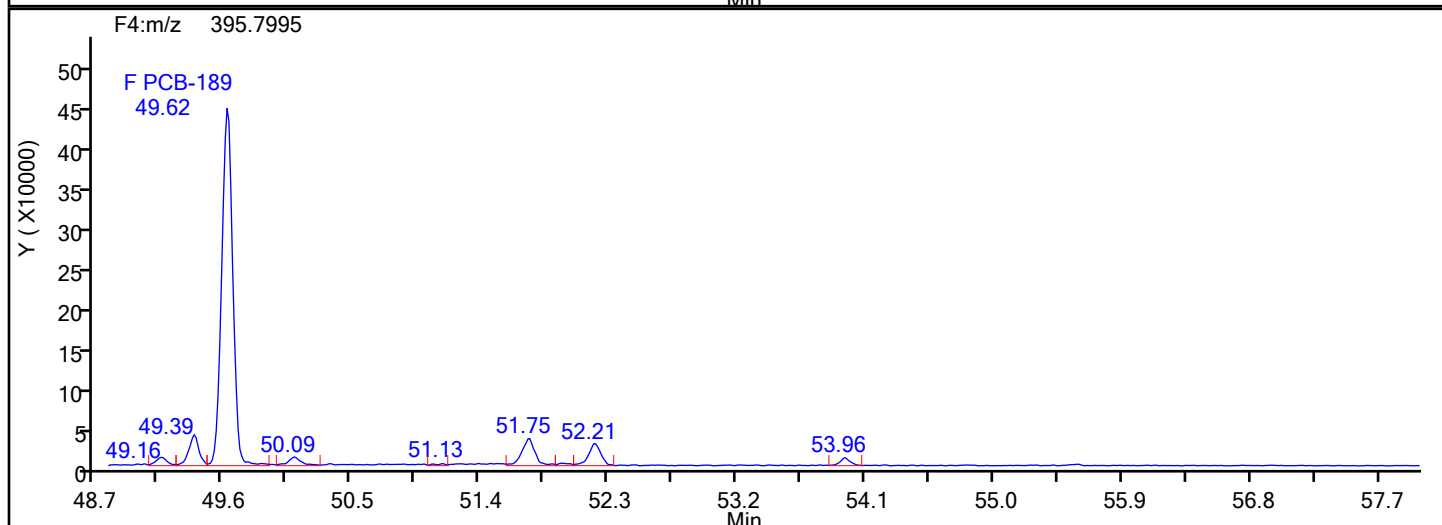
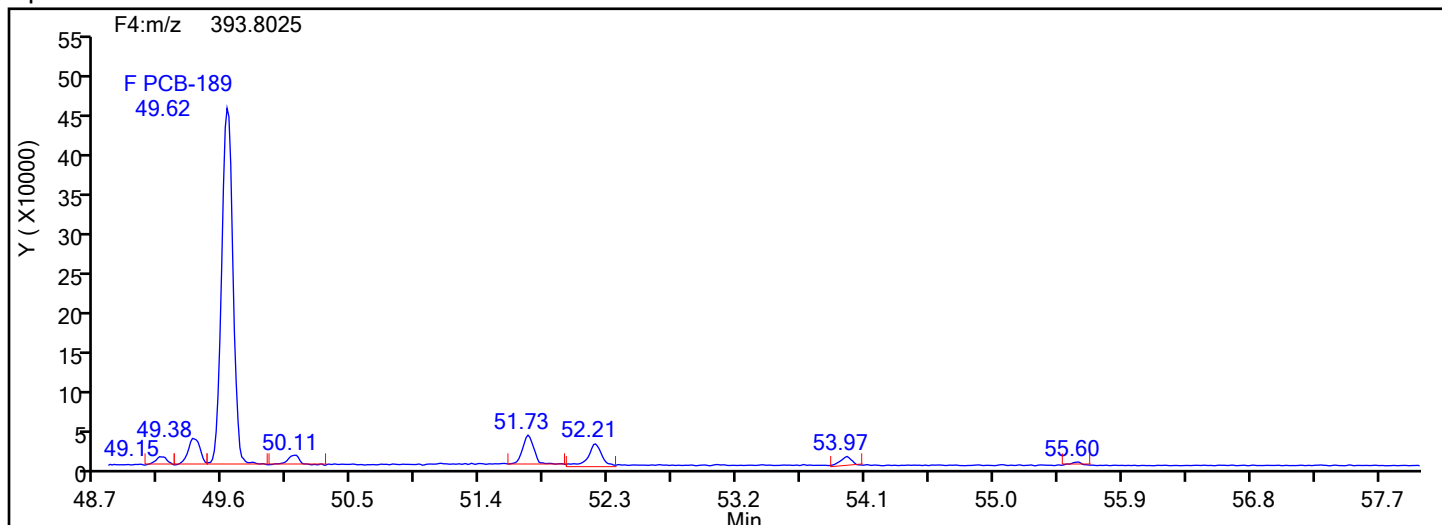
Worklist#: 87130

Sample Line#: 4

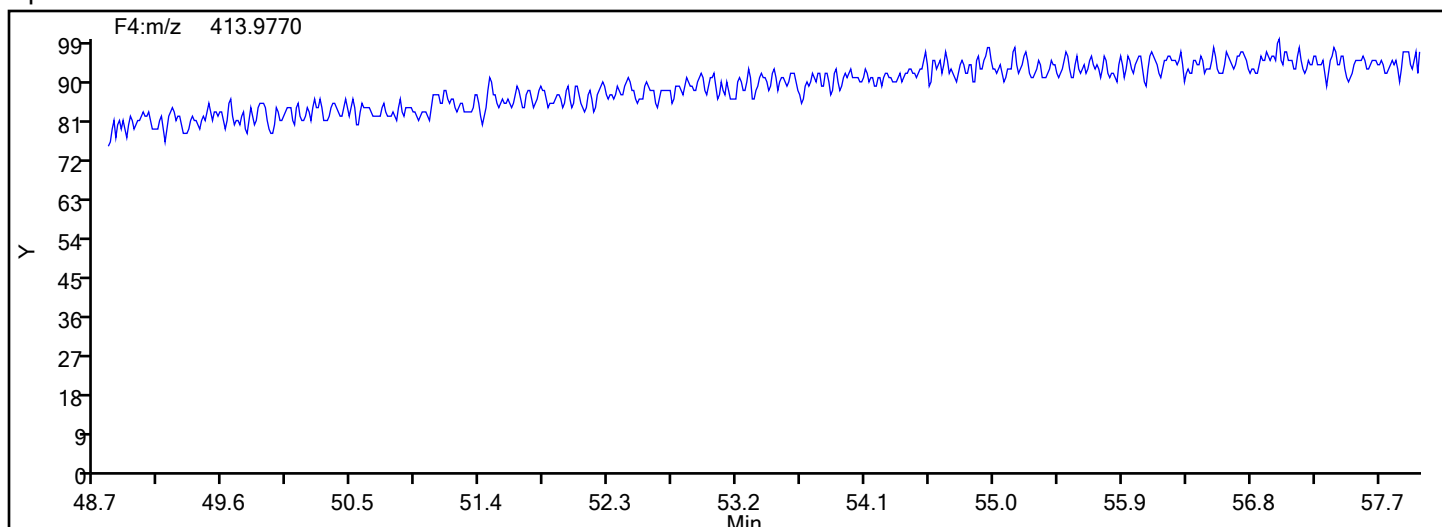
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

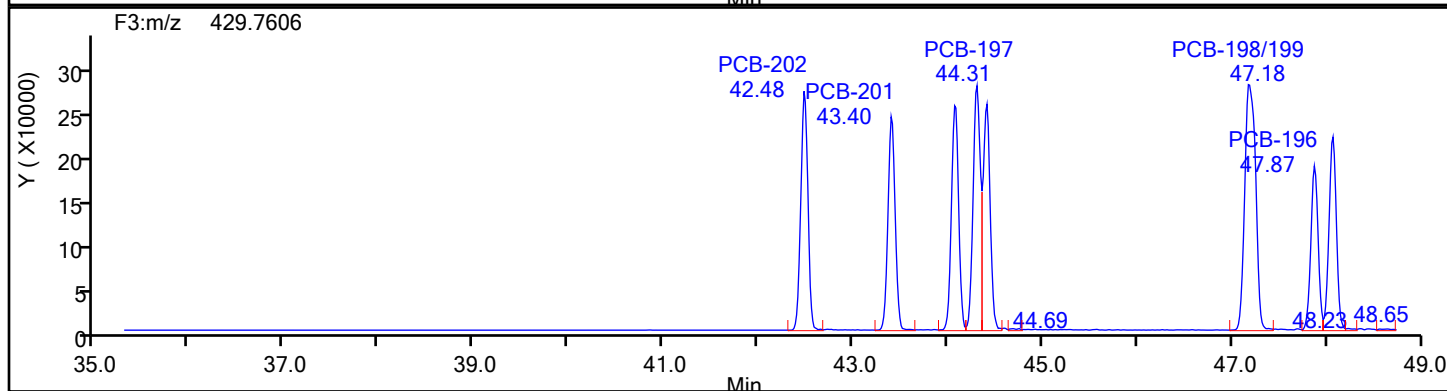
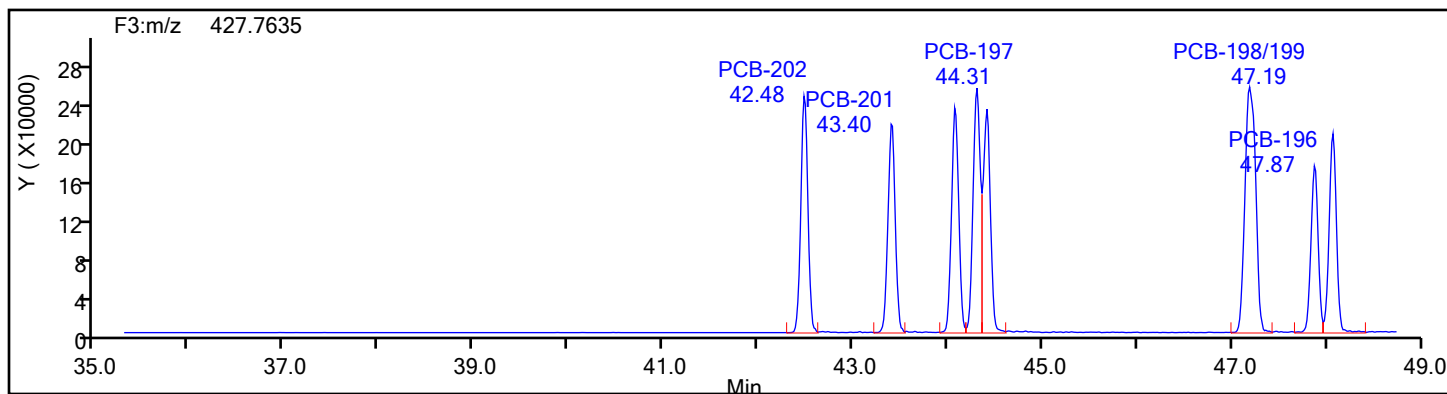
Worklist#: 87130

Sample Line#: 4

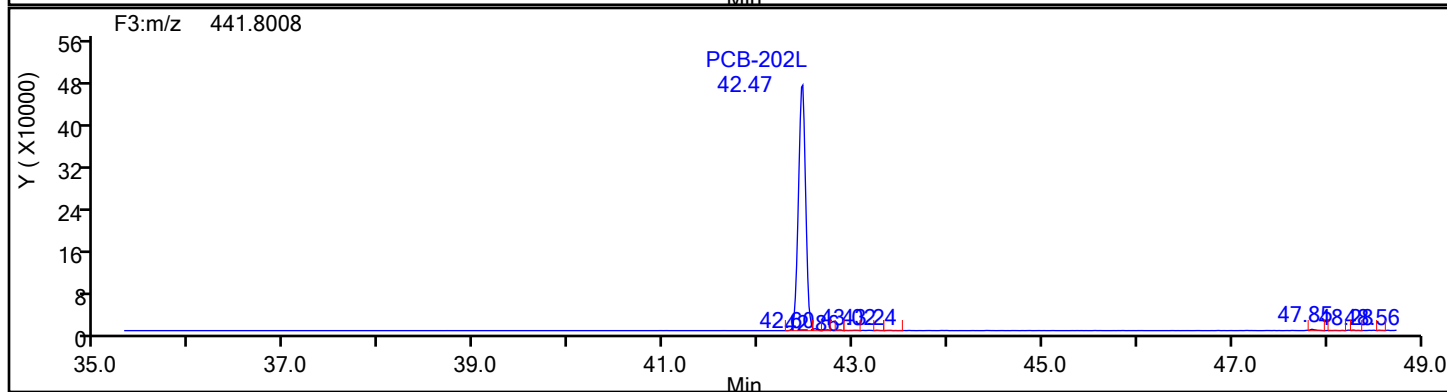
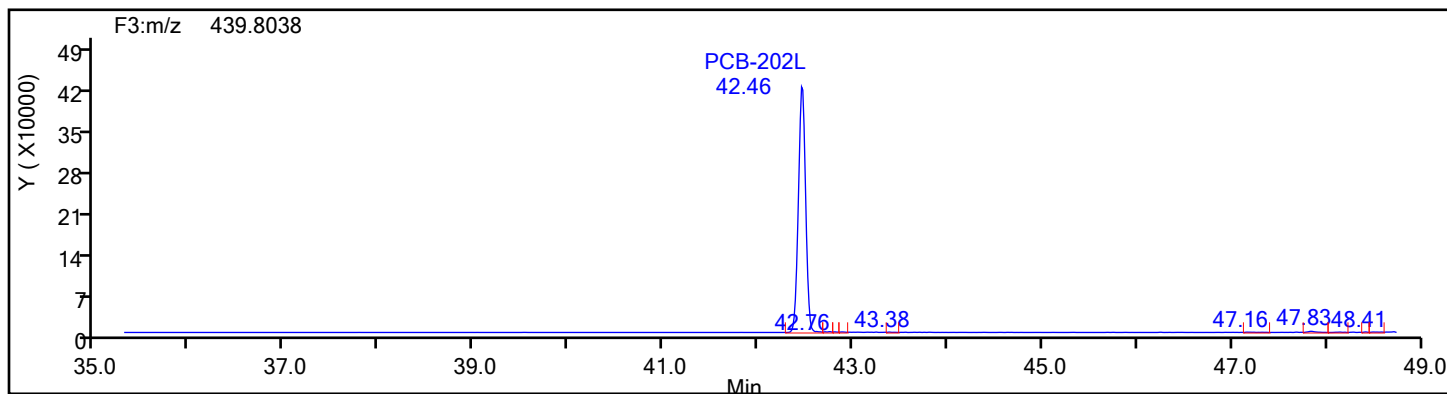
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

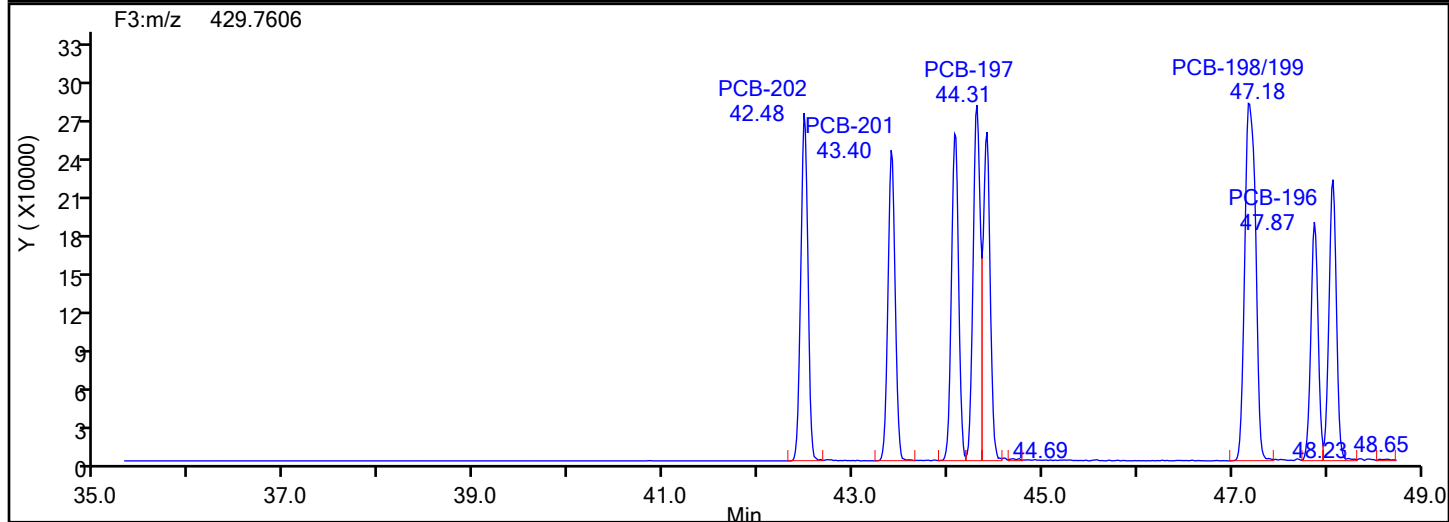
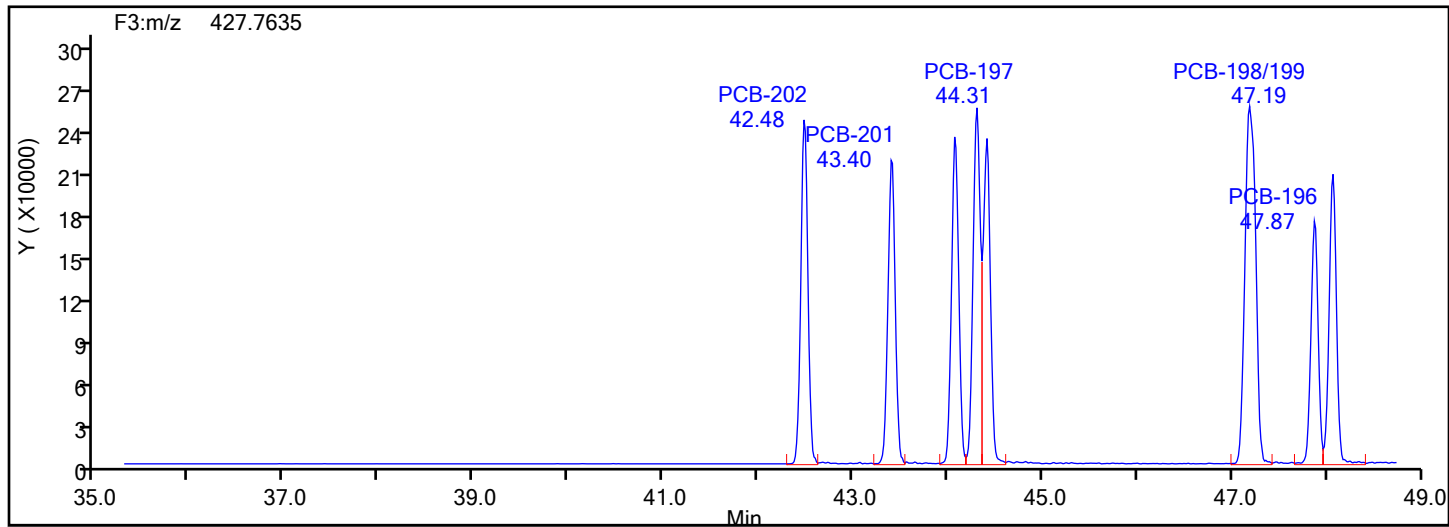


OcPCB F3 Standards

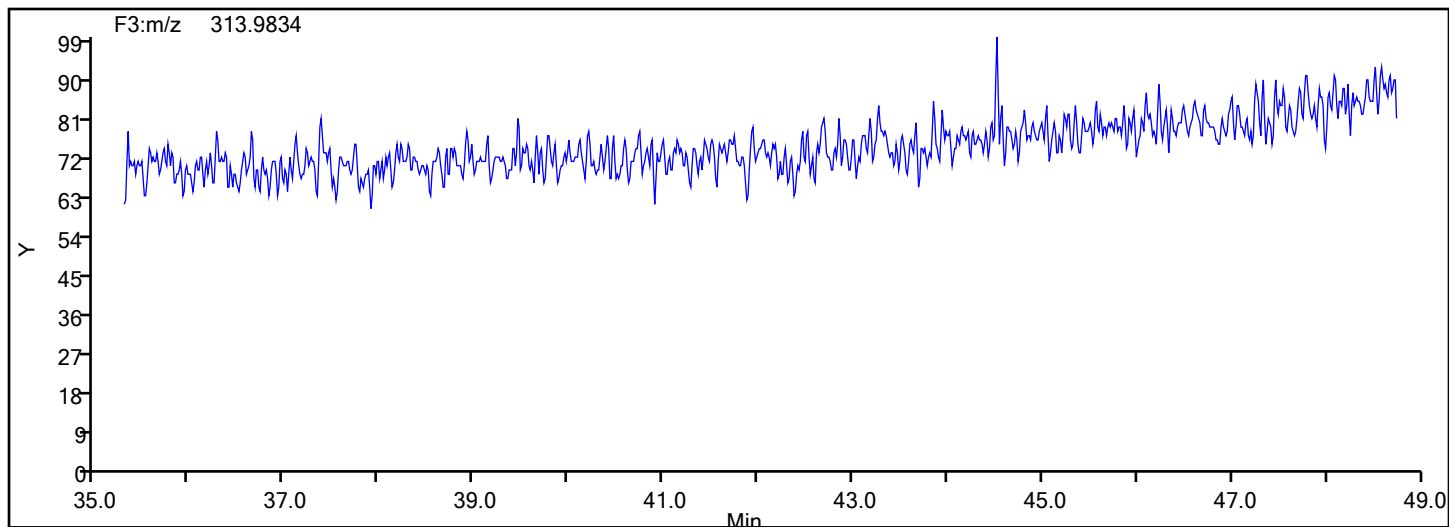


Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d		
Injection Date:	31-May-2024 19:10:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	87130	Sample Line#:	4
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
OcPCB F3			



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

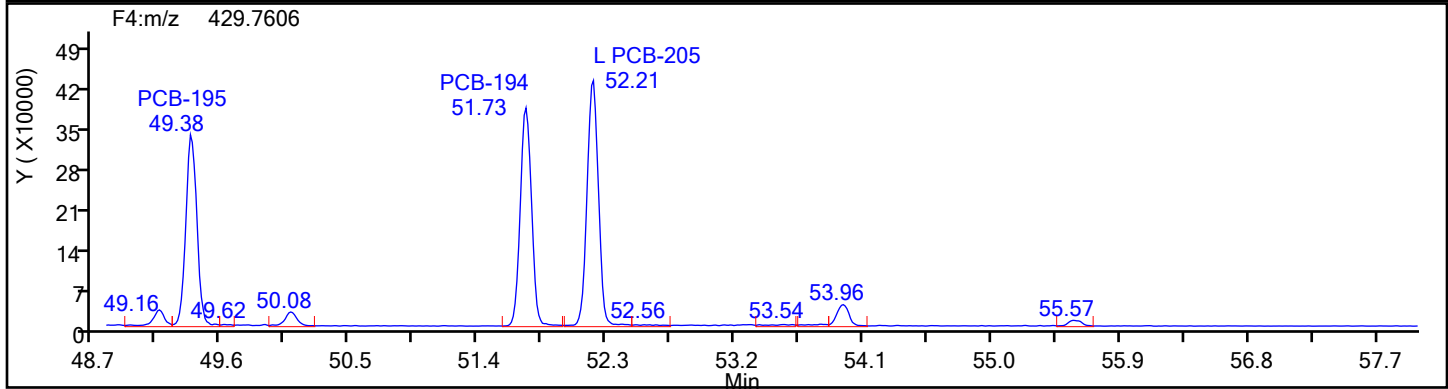
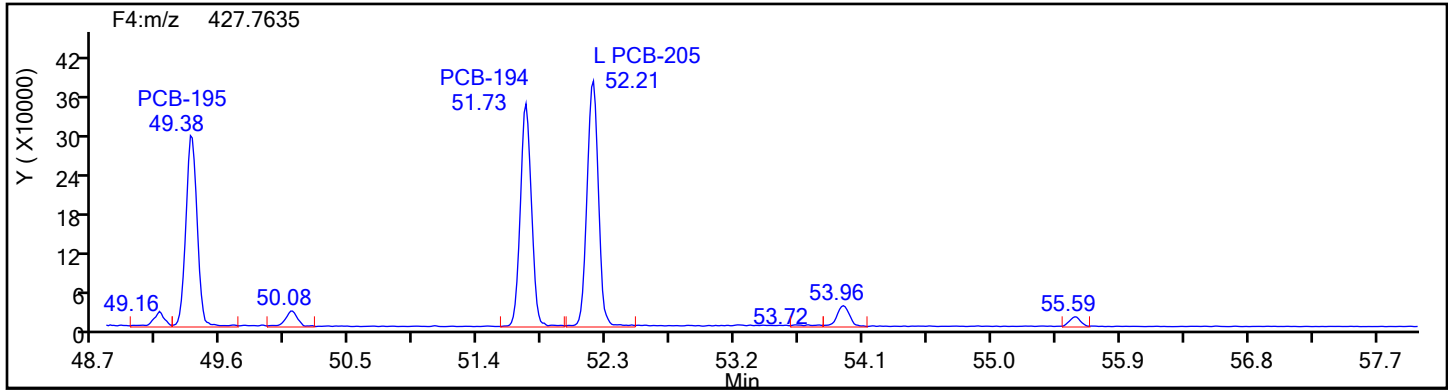
Worklist#: 87130

Sample Line#: 4

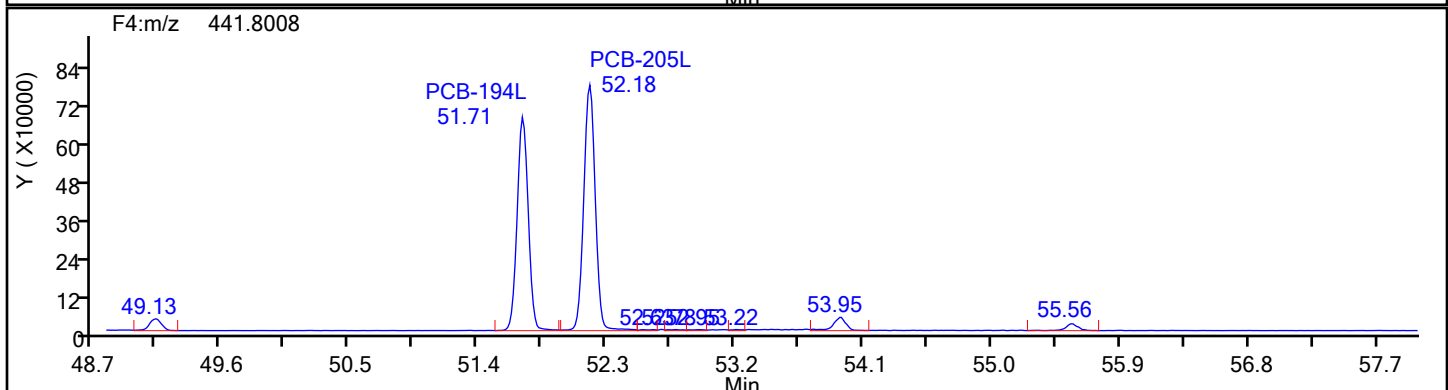
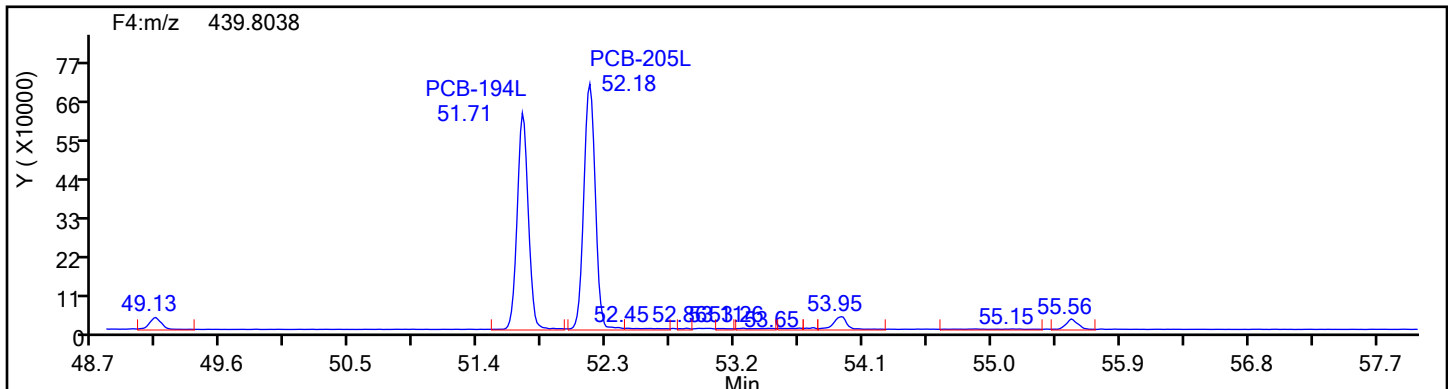
Column Type: SPB-Octyl

Column Dia: 0.25 mm

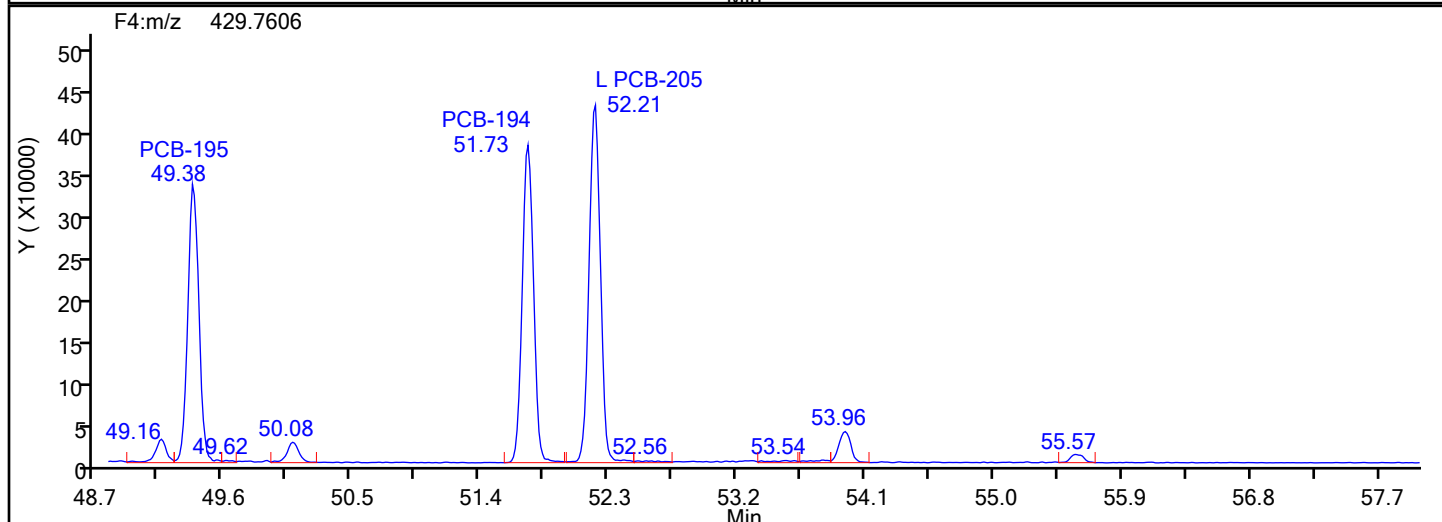
OcPCB F4



OcPCB F4 Standards

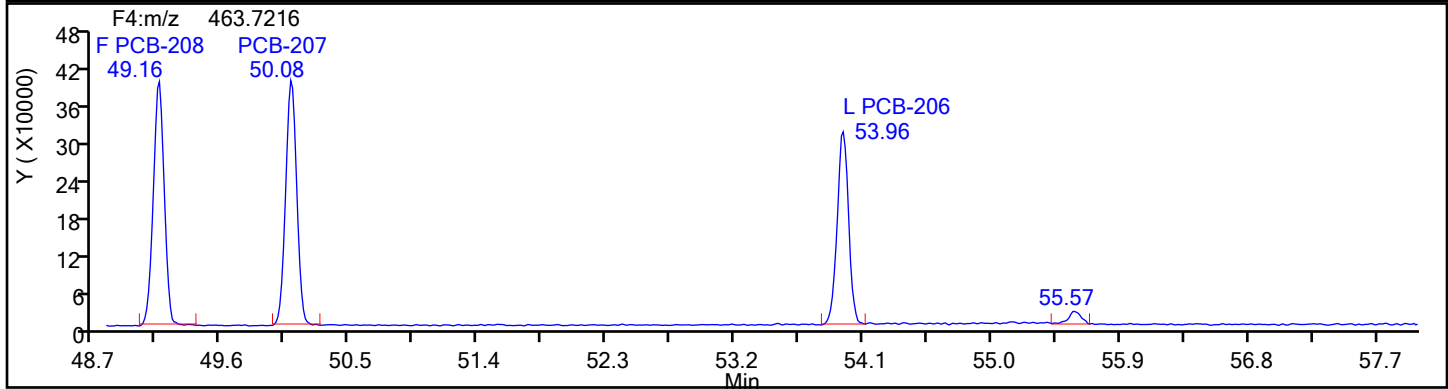
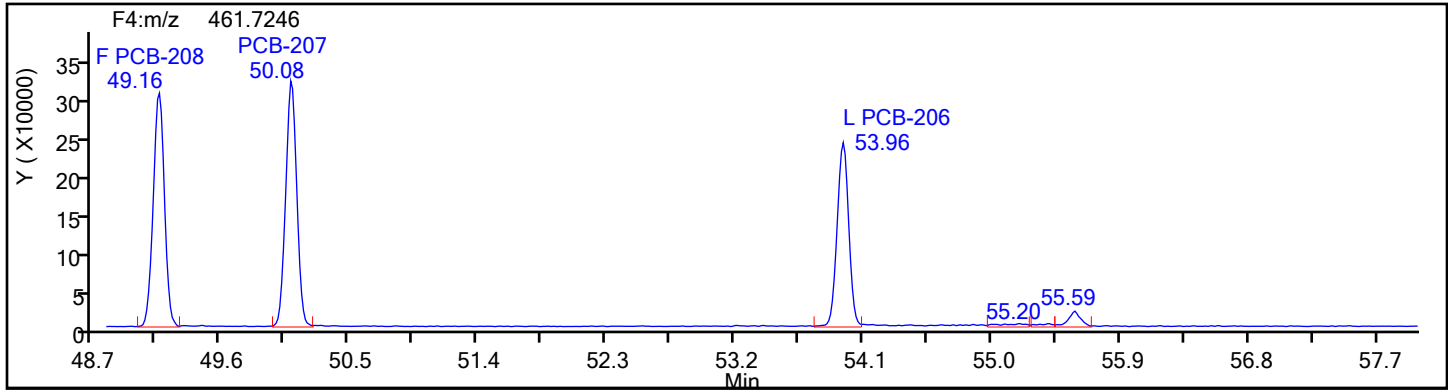


Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d		
Injection Date:	31-May-2024 19:10:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	87130	Sample Line#:	4
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
OcPCB F4			

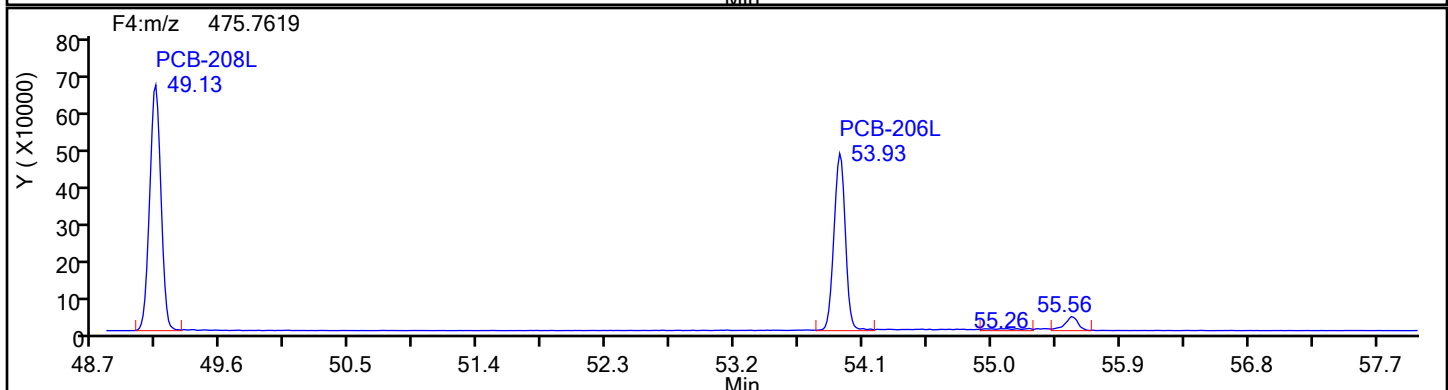
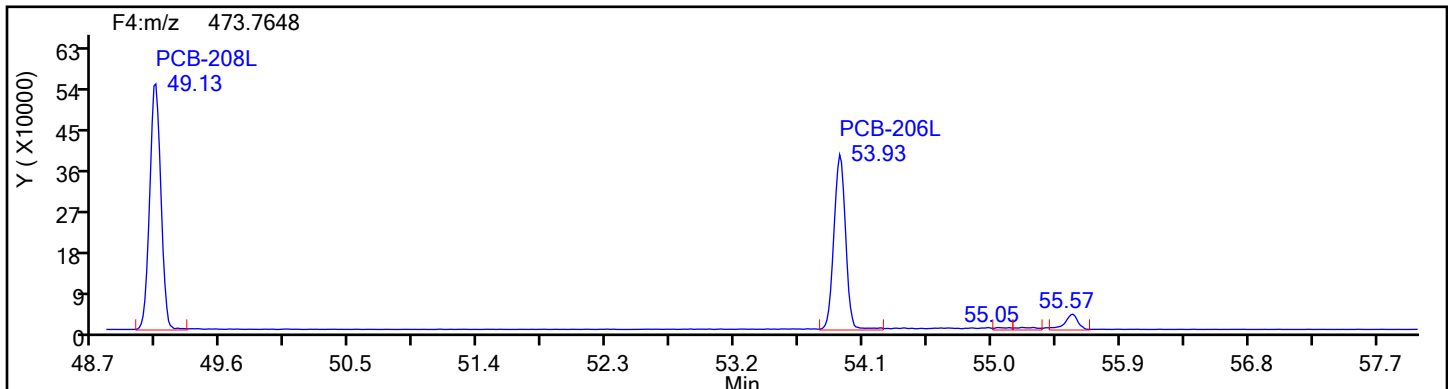


Eurofins Knoxville

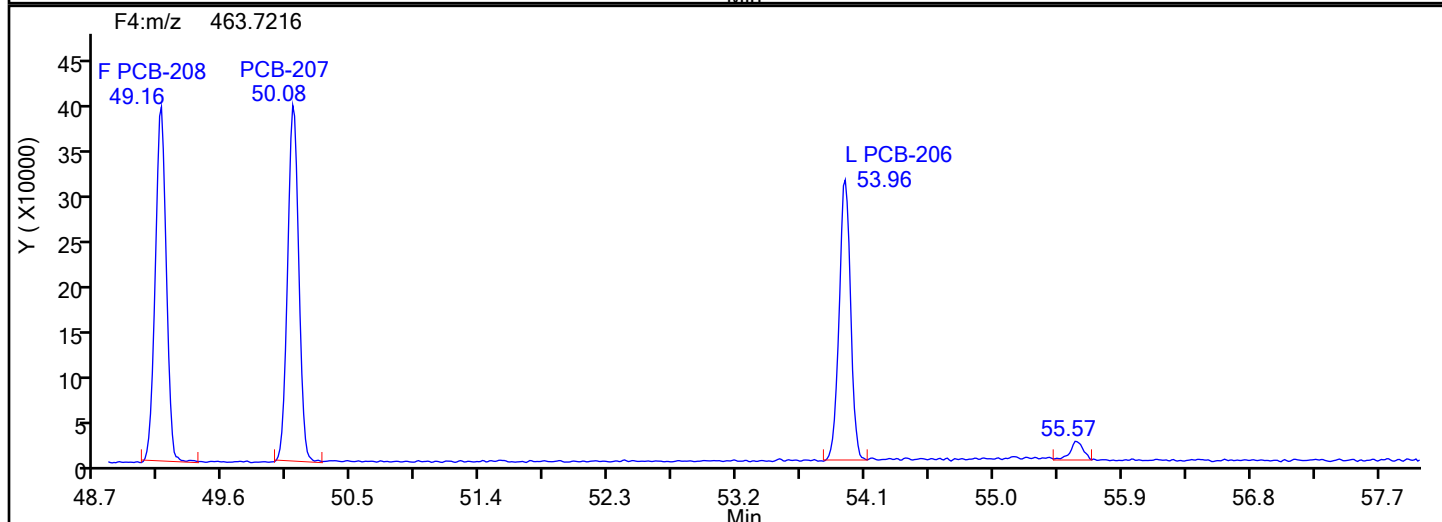
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d		
Injection Date:	31-May-2024 19:10:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	87130	Sample Line#:	4
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
NoPCB F4			



Eurofins Knoxville

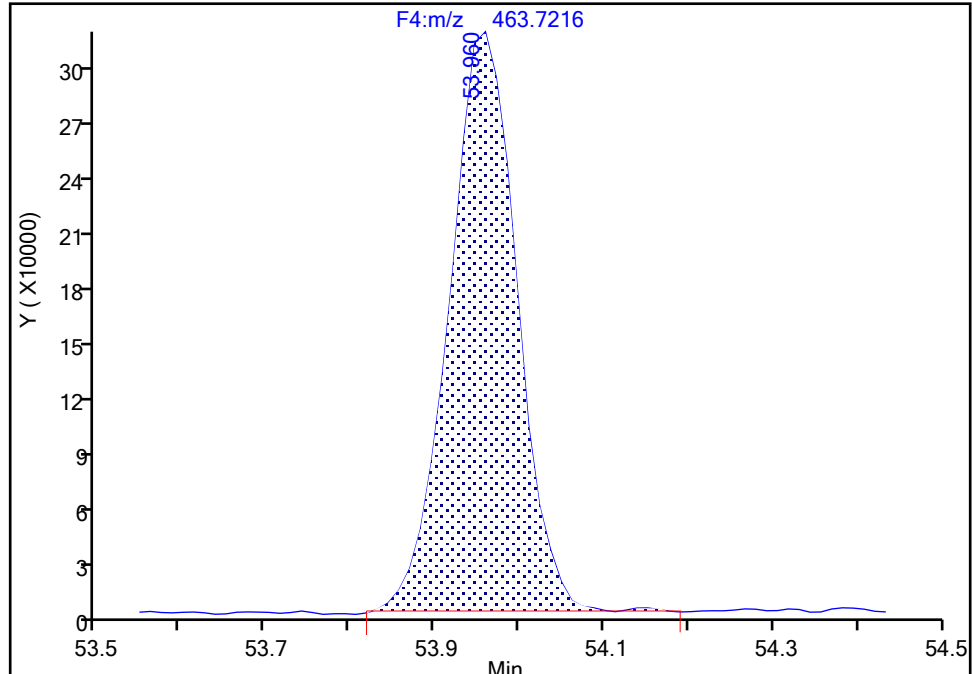
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 2

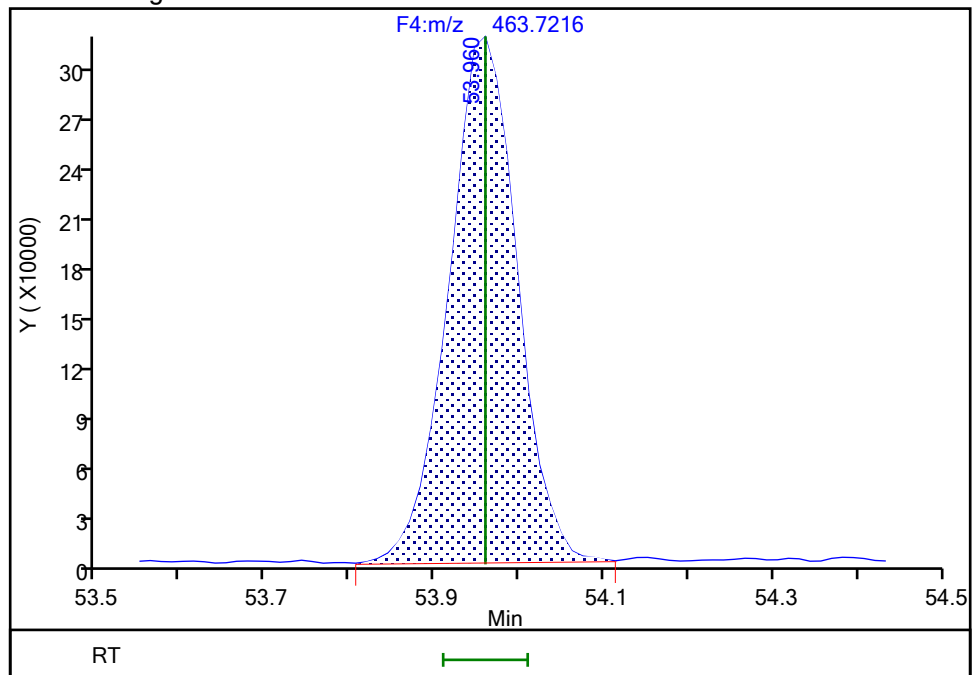
RT: 53.96
Area: 1747998
Amount: 47.494765
Amount Units: pg/ul

Processing Integration Results



RT: 53.96
Area: 1761287
Amount: 47.741918
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:12:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

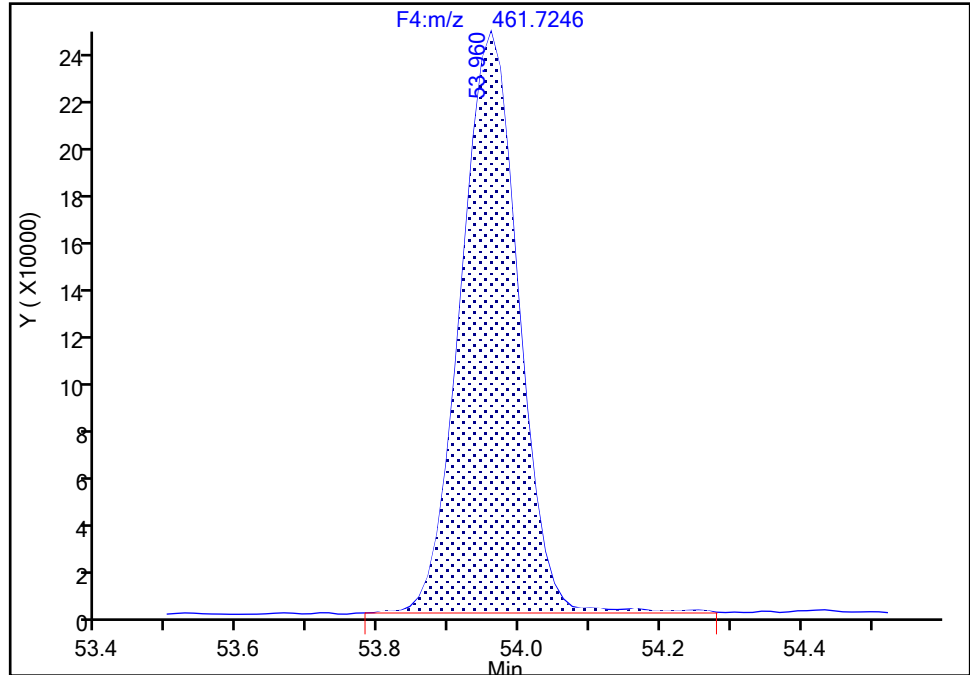
Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 1

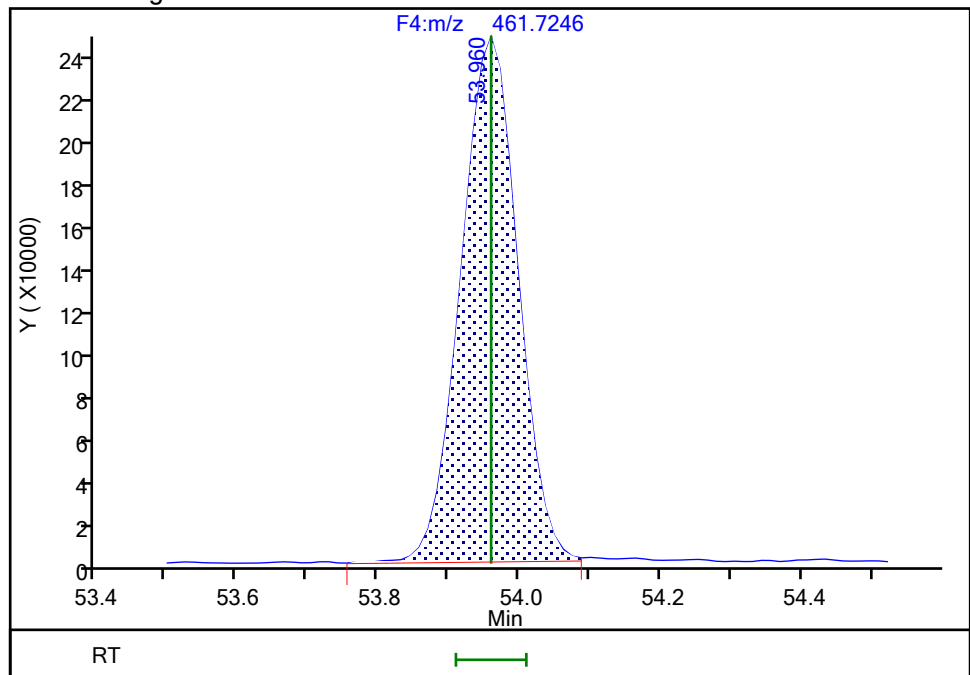
RT: 53.96
Area: 1370361
Amount: 47.494765
Amount Units: pg/ul

Processing Integration Results



RT: 53.96
Area: 1363275
Amount: 47.741918
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:13:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

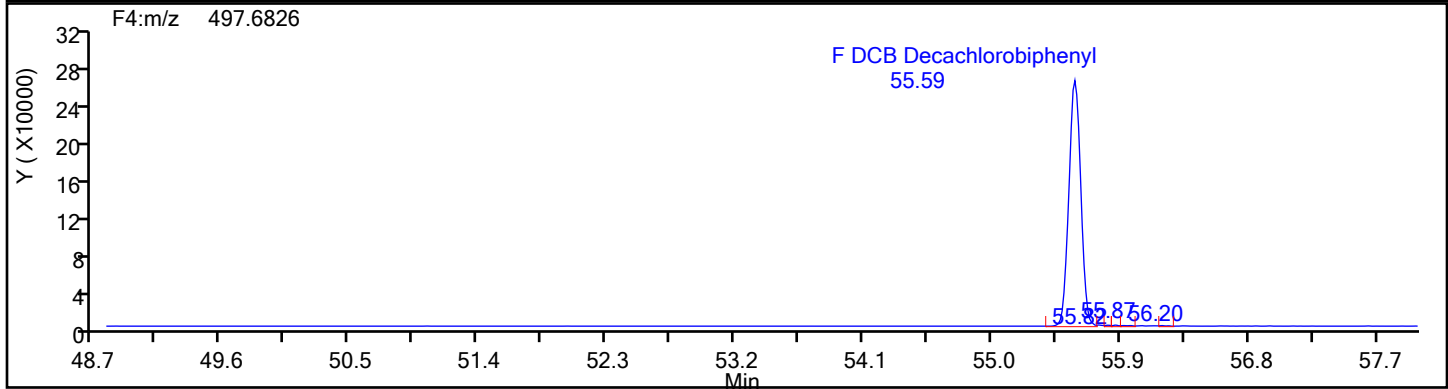
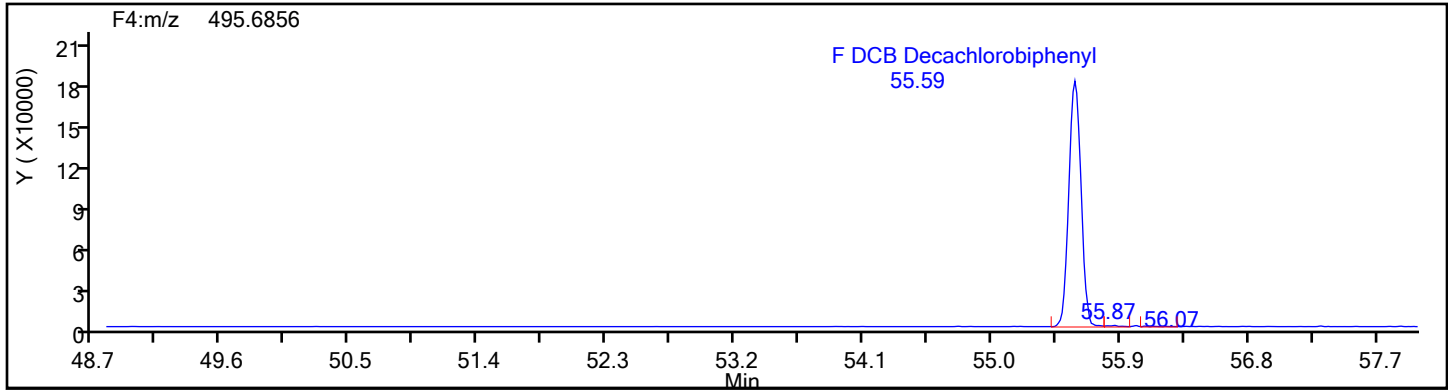
Audit Reason: Baseline

Page 2033 of 3076

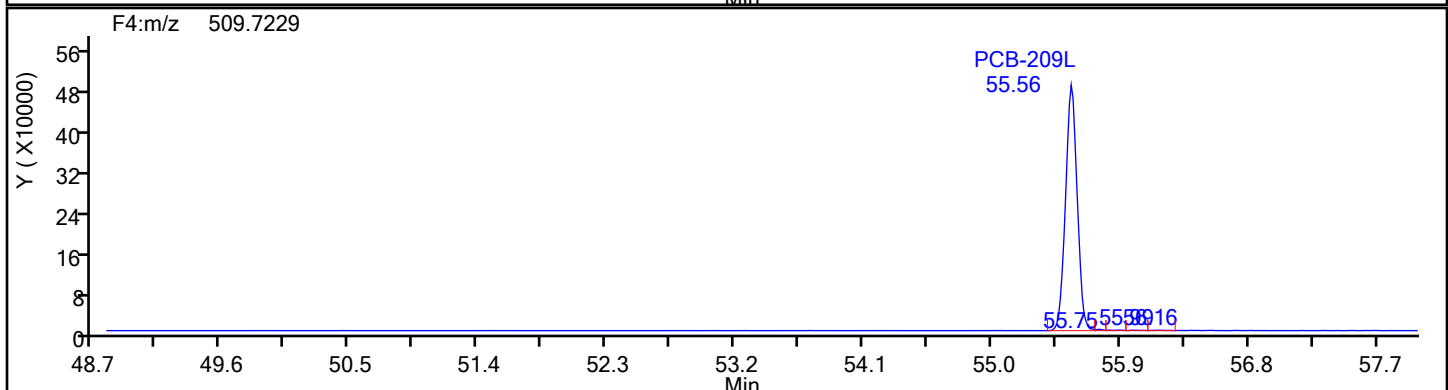
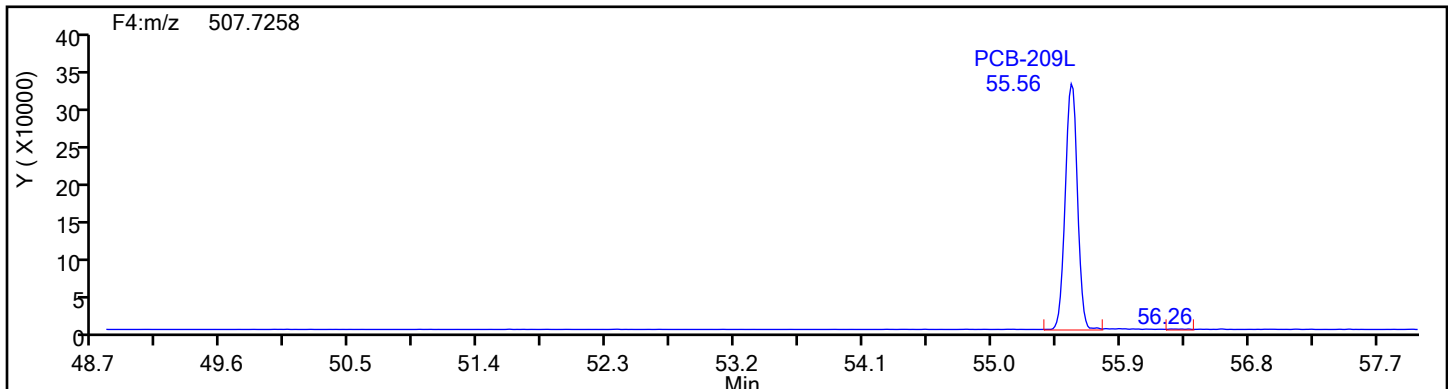
BASFHWC-GS-2024-03485
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

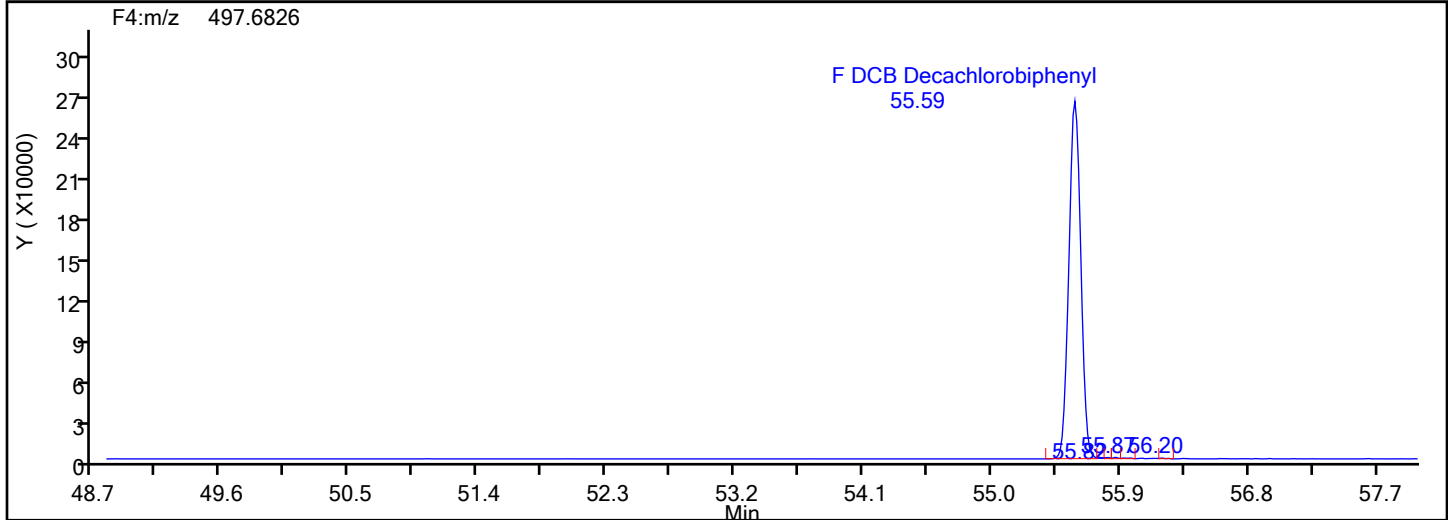
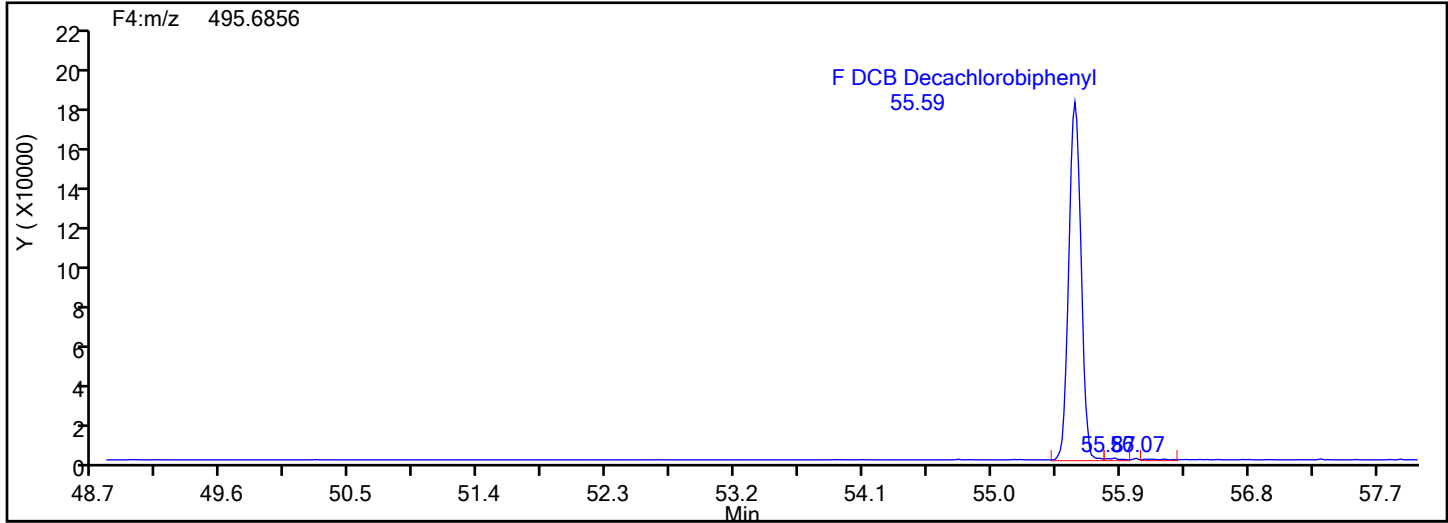


DePCB F4 Standards

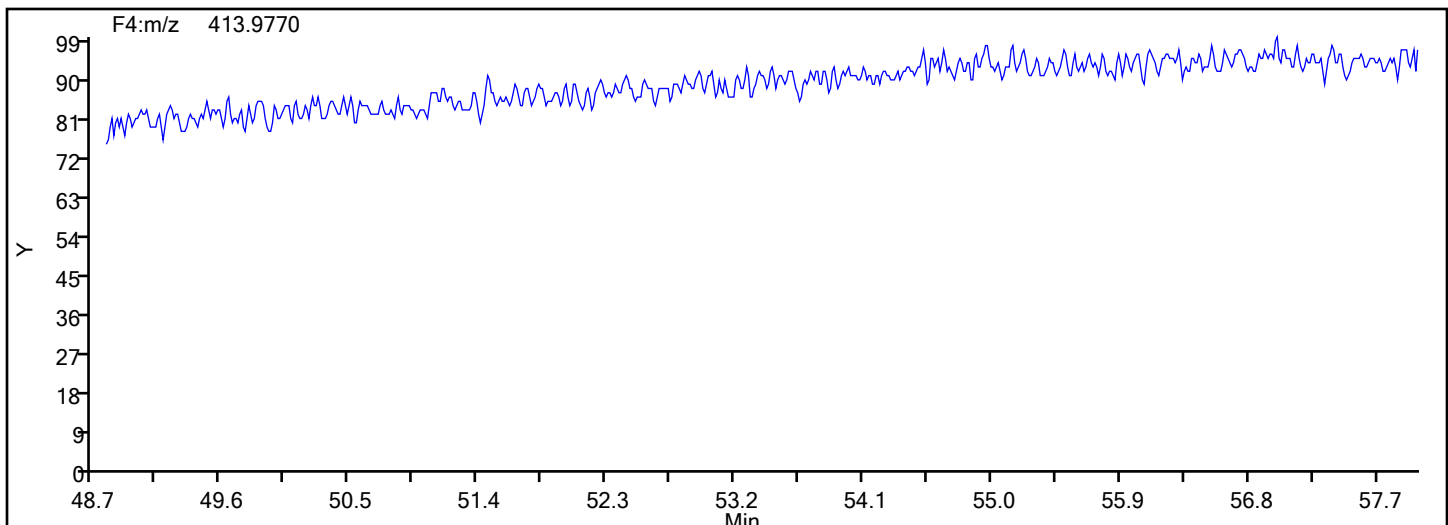


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-May-2024 20:12:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-005
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:28:19 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: V4XA

Date: 01-Jun-2024 03:02:33

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					1217.8	1217.8	1.154	1.154		
D PCB-1L	11:36	13820437	3.16	1.6108	98.0	98.0	0.8301	0.8301	97.96	
D PCB-3L	13:45	13803706	3.20	1.5891	99.2	99.2	0.8414	0.8414	99.18	
PCB-1	11:36	68569399	3.29	1.2191	407.0	407.0	1.062	1.062	102	
PCB-2	13:36	67117936	3.26	1.1805	411.6	411.6	1.175	1.175	103	
PCB-3	13:46	67267765	3.23	1.2206	399.2	399.2	1.225	1.225	99.81	
S Total Dichlorobiphenyls					4678.9	4678.9	0.0272	0.0272		
D PCB-4L	14:01	5561618	1.57	0.6475	98.1	98.1	0.1179	0.1179	98.07	
* PCB-9L	15:58	8758158	1.62		100.0	100.0				
\$ PCB-8L	16:48	33958319	1.61	1.2066	371.9	371.9	0.0782	0.0782	92.96	
D PCB-15L	19:53	9575202	1.63	1.0789	101.3	101.3	0.0707	0.0707	101	
PCB-4	14:02	27890333	1.59	1.2818	391.2	391.2	0.0340	0.0340	97.81	
PCB-10	14:12	38655568	1.60	1.3149	388.4	388.4	0.0284	0.0284	97.11	
PCB-9	15:59	42181873	1.60	1.4224	391.8	391.8	0.0263	0.0263	97.95	
PCB-7	16:09	41182455	1.60	1.4134	385.0	385.0	0.0264	0.0264	96.24	
PCB-6	16:24	44979638	1.61	1.5421	385.4	385.4	0.0242	0.0242	96.35	
PCB-5	16:42	40020538	1.61	1.3395	394.8	394.8	0.0279	0.0279	98.69	
PCB-8	16:50	47031816	1.61	1.5889	391.1	391.1	0.0235	0.0235	97.78	
PCB-14	18:27	41013941	1.60	1.4025	386.4	386.4	0.0266	0.0266	96.60	
PCB-11	19:17	38153224	1.60	1.2951	389.3	389.3	0.0288	0.0288	97.31	
PCB-12	19:35	80149527	1.61	1.3358	792.8	792.8	0.0280	0.0280	99.10	
PCB-13 (C12)	19:35	80149527	1.61	1.3358	792.8	792.8	0.0280	0.0280	99.10	
PCB-15	19:54	47283812	1.61	1.2903	382.7	382.7	0.0253	0.0253	95.68	
S Total Trichlorobiphenyls					9347.4	9347.4	2.029	2.029		
D PCB-19L	17:06	3537933	1.07	0.6285	97.7	97.7	0.6831	0.6831	97.68	
* PCB-32L	20:22	5762324	1.10		100.0	100.0				
* PCB-31L	22:37	16737748	1.05		100.0	100.0				
\$ PCB-28L	22:55	63120528	1.05	1.0494	359.4	359.4	0.0845	0.0845	89.84	
D PCB-37L	26:55	14730805	1.06	0.8749	100.6	100.6	0.1013	0.1013	101	
PCB-19	17:08	18011092	1.06	1.2809	397.4	397.4	0.0291	0.0291	99.36	
PCB-18	18:58	49683955	1.06	1.7652	795.6	795.6	0.0211	0.0211	99.44	
PCB-30 (C18)	18:58	49683955	1.06	1.7652	795.6	795.6	0.0211	0.0211	99.44	
PCB-17	19:24	17339157	1.06	1.2430	394.3	394.3	0.0300	0.0300	98.57	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:33	50251634	0.79	1.2334	374.0	374.0	2.630	2.630	93.50	
PCB-60	30:46	45739750	0.79	1.1230	373.9	373.9	2.888	2.888	93.47	
PCB-80	31:10	54703996	0.80	1.3243	379.2	379.2	2.449	2.449	94.81	
PCB-79	32:41	58766091	0.79	1.4368	375.5	375.5	2.257	2.257	93.87	
PCB-78	33:15	46136888	0.78	1.1618	364.5	364.5	2.792	2.792	91.14	
PCB-81	33:41	42731408	0.79	1.0802	382.7	382.7	3.042	3.042	95.69	
PCB-77	34:15	45244571	0.79	1.0836	364.7	364.7	2.955	2.955	91.16	
S Total Pentachlorobiphenyls					18026	18026	1.410	1.410		
D PCB-104L	25:42	6672003	1.61	1.2161	97.4	97.4	0.0255	0.0255	97.39	
\$ PCB-95L	28:40	18806941	1.59	0.7218	390.5	390.5	0.0346	0.0346	97.63	
* PCB-101L	31:36	5633550	1.58		100.0	100.0				
\$ PCB-111L	34:17	27823366	1.60	1.3699	360.5	360.5	0.0226	0.0226	90.13	
D PCB-123L	36:15	10377703	1.58	0.9731	100.6	100.6	1.159	1.159	101	
D PCB-118L	36:34	10740248	1.60	1.0102	100.3	100.3	1.116	1.116	100	
D PCB-114L	37:06	10559524	1.60	0.9949	100.2	100.2	1.133	1.133	100	
D PCB-105L	37:44	10096861	1.59	0.9514	100.2	100.2	1.185	1.185	100	
* PCB-127L	39:13	10595355	1.61		100.0	100.0				
D PCB-126L	40:50	10103302	1.58	0.9439	101.0	101.0	1.195	1.195	101	
PCB-104	25:43	26991793	1.59	1.0087	401.1	401.1	0.0414	0.0414	100	
PCB-96	26:05	29124757	1.58	1.0940	399.0	399.0	0.0382	0.0382	99.75	
PCB-103	28:01	23026262	1.59	0.8741	394.8	394.8	0.0478	0.0478	98.70	
PCB-94	28:15	19293687	1.58	0.7640	378.5	378.5	0.0547	0.0547	94.62	
PCB-95	28:41	21743452	1.58	0.8033	405.7	405.7	0.0520	0.0520	101	
PCB-93	28:54	43937859	1.60	0.8429	781.3	781.3	0.0496	0.0496	97.66	
PCB-100 (C93)	28:54	43937859	1.60	0.8429	781.3	781.3	0.0496	0.0496	97.66	
PCB-98	29:04	43293553	1.58	0.8262	785.4	785.4	0.0506	0.0506	98.18	M
PCB-102 (C98)	29:04	43293553	1.58	0.8262	785.4	785.4	0.0506	0.0506	98.18	M
PCB-88	29:33	42407684	1.58	0.8013	793.2	793.2	0.0522	0.0522	99.15	
PCB-91 (C88)	29:33	42407684	1.58	0.8013	793.2	793.2	0.0522	0.0522	99.15	
PCB-84	29:46	18942616	1.58	0.7299	389.0	389.0	0.0573	0.0573	97.24	
PCB-89	30:15	19980724	1.60	0.7798	384.0	384.0	0.0536	0.0536	96.01	
PCB-121	30:40	34064929	1.60	1.2964	393.8	393.8	0.0322	0.0322	98.46	
PCB-92	31:02	22258079	1.58	0.8546	390.4	390.4	0.0489	0.0489	97.60	
PCB-90	31:36	75031128	1.59	0.9550	1177.6	1177.6	0.0438	0.0438	98.13	
PCB-101 (C90)	31:36	75031128	1.59	0.9550	1177.6	1177.6	0.0438	0.0438	98.13	
PCB-113 (C90)	31:36	75031128	1.59	0.9550	1177.6	1177.6	0.0438	0.0438	98.13	
PCB-83	32:12	44113984	1.58	0.8385	788.5	788.5	0.0499	0.0499	98.57	
PCB-99 (C83)	32:12	44113984	1.58	0.8385	788.5	788.5	0.0499	0.0499	98.57	
PCB-112	32:19	36244741	1.58	1.4111	385.0	385.0	0.0296	0.0296	96.24	
PCB-86	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-87 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-97 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-109 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-119 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-125 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-85	33:25	81508464	1.59	1.0408	1173.8	1173.8	0.0402	0.0402	97.81	
PCB-116 (C85)	33:25	81508464	1.59	1.0408	1173.8	1173.8	0.0402	0.0402	97.81	
PCB-117 (C85)	33:25	81508464	1.59	1.0408	1173.8	1173.8	0.0402	0.0402	97.81	
PCB-110	33:36	61605039	1.58	1.1919	774.7	774.7	0.0351	0.0351	96.84	M
PCB-115 (C110)	33:36	61605039	1.58	1.1919	774.7	774.7	0.0351	0.0351	96.84	M
PCB-82	33:54	21705824	1.60	0.8303	391.8	391.8	0.0504	0.0504	97.95	
PCB-111	34:19	31849869	1.58	1.2125	393.7	393.7	0.0345	0.0345	98.42	
PCB-120	34:47	38221427	1.58	1.4762	388.1	388.1	0.0283	0.0283	97.01	
PCB-108	35:54	91375734	1.59	1.1405	772.2	772.2	4.173	4.173	96.52	
PCB-124 (C108)	35:54	91375734	1.59	1.1405	772.2	772.2	4.173	4.173	96.52	
PCB-107	36:09	48169388	1.55	1.2121	383.0	383.0	3.926	3.926	95.76	
PCB-123	36:16	43726655	1.57	1.0722	393.0	393.0	4.294	4.294	98.24	
PCB-106	36:22	43503164	1.56	1.0839	386.8	386.8	4.390	4.390	96.71	
PCB-118	36:35	49487841	1.57	1.2055	382.2	382.2	3.812	3.812	95.55	
PCB-122	36:56	38072113	1.57	0.9567	383.5	383.5	4.974	4.974	95.89	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:07	44610183	1.56	1.0842	389.7	389.7	4.349	4.349	97.42	
PCB-105	37:46	45872125	1.58	1.1879	382.5	382.5	4.101	4.101	95.61	
PCB-127	39:14	46076121	1.57	1.1394	389.8	389.8	4.177	4.177	97.44	
PCB-126	40:51	44661015	1.58	1.0976	402.7	402.7	4.590	4.590	101	
S Total Hexachlorobiphenyls					16547	16547	1.592	1.592		
D PCB-155L	31:22	5892178	1.25	1.0851	96.4	96.4	0.0349	0.0349	96.39	
\$ PCB-153L	38:27	27374804	1.28	0.9169	348.1	348.1	0.8737	0.8737	87.02	
* PCB-138L	39:41	7155531	1.28		100.0	100.0				
\$ PCB-159L	41:56	4551409	1.30	0.5118	101.6	101.6	1.285	1.285	102	
D PCB-167L	42:42	8748546	1.27	1.2572	97.2	97.2	0.6533	0.6533	97.25	
D PCB-156L	43:50	16797326	1.28	1.2106	193.9	193.9	0.6785	0.6785	96.95	
D PCB-157L (C156L)	43:50	16797326	1.28	1.2106	193.9	193.9	0.6785	0.6785	96.95	
D PCB-169L	47:05	8761705	1.28	1.2439	98.4	98.4	0.6604	0.6604	98.44	
PCB-155	31:24	22251730	1.26	0.9444	399.9	399.9	0.0297	0.0297	99.97	
PCB-152	31:35	22836429	1.26	0.9895	391.7	391.7	0.0284	0.0284	97.92	
PCB-150	31:45	23890856	1.27	1.0132	400.2	400.2	0.0277	0.0277	100	
PCB-136	32:07	23743749	1.27	1.0116	398.4	398.4	0.0277	0.0277	99.59	
PCB-145	32:25	22672411	1.28	0.9685	397.3	397.3	0.0290	0.0290	99.33	
PCB-148	33:56	17957394	1.27	0.7603	400.9	400.9	0.0369	0.0369	100	
PCB-135	34:31	34125616	1.27	0.7256	798.2	798.2	0.0387	0.0387	99.78	M
PCB-151 (C135)	34:31	34125616	1.27	0.7256	798.2	798.2	0.0387	0.0387	99.78	M
PCB-154	34:47	19278459	1.26	0.8129	402.5	402.5	0.0345	0.0345	101	
PCB-144	35:05	18139372	1.26	0.7852	392.1	392.1	0.0357	0.0357	98.01	
PCB-147	35:27	59645820	1.26	0.8950	777.0	777.0	2.328	2.328	97.13	
PCB-149 (C147)	35:27	59645820	1.26	0.8950	777.0	777.0	2.328	2.328	97.13	
PCB-134	35:45	52378003	1.26	0.7967	766.5	766.5	2.615	2.615	95.82	
PCB-143 (C134)	35:45	52378003	1.26	0.7967	766.5	766.5	2.615	2.615	95.82	
PCB-139	36:03	59038438	1.26	0.8769	785.0	785.0	2.376	2.376	98.13	
PCB-140 (C139)	36:03	59038438	1.26	0.8769	785.0	785.0	2.376	2.376	98.13	
PCB-131	36:15	25806641	1.26	0.7503	401.0	401.0	2.777	2.777	100	
PCB-142	36:23	25727292	1.25	0.7507	399.6	399.6	2.775	2.775	99.89	
PCB-132	36:42	24603976	1.25	0.7489	383.0	383.0	2.782	2.782	95.76	
PCB-133	37:13	28247093	1.25	0.8096	406.8	406.8	2.574	2.574	102	
PCB-165	37:37	34588489	1.26	1.0247	393.5	393.5	2.033	2.033	98.39	
PCB-146	37:52	32748351	1.25	0.9637	396.2	396.2	2.162	2.162	99.05	
PCB-161	37:59	38113824	1.26	1.1288	393.7	393.7	1.846	1.846	98.42	
PCB-153	38:29	74572114	1.26	1.0938	794.9	794.9	1.905	1.905	99.36	
PCB-168 (C153)	38:29	74572114	1.26	1.0938	794.9	794.9	1.905	1.905	99.36	
PCB-141	38:40	29064533	1.26	0.8755	387.1	387.1	2.380	2.380	96.76	
PCB-130	39:04	23530162	1.26	0.7051	389.1	389.1	2.955	2.955	97.27	
PCB-137	39:18	25797296	1.25	0.7767	387.3	387.3	2.683	2.683	96.82	
PCB-164	39:25	35754648	1.27	1.0382	401.5	401.5	2.007	2.007	100	
PCB-129	39:44	127135379	1.26	0.9464	1566.2	1566.2	2.202	2.202	97.89	M
PCB-138 (C129)	39:44	127135379	1.26	0.9464	1566.2	1566.2	2.202	2.202	97.89	M
PCB-160 (C129)	39:44	127135379	1.26	0.9464	1566.2	1566.2	2.202	2.202	97.89	M
PCB-163 (C129)	39:44	127135379	1.26	0.9464	1566.2	1566.2	2.202	2.202	97.89	M
PCB-158	40:06	43420955	1.27	1.3110	386.1	386.1	1.589	1.589	96.54	Ma
PCB-128	40:57	68077278	1.25	0.9829	807.5	807.5	2.120	2.120	101	
PCB-166 (C128)	40:57	68077278	1.25	0.9829	807.5	807.5	2.120	2.120	101	
PCB-159	41:58	46357455	1.25	1.3856	390.1	390.1	1.504	1.504	97.52	
PCB-162	42:15	41684795	1.25	1.2571	386.6	386.6	1.657	1.657	96.65	
PCB-167	42:43	37916934	1.25	1.1159	388.4	388.4	1.533	1.533	97.10	
PCB-156	43:52	73585151	1.25	1.1104	789.0	789.0	2.343	2.343	98.63	
PCB-157 (C156)	43:52	73585151	1.25	1.1104	789.0	789.0	2.343	2.343	98.63	
PCB-169	47:05	39746833	1.28	1.1628	390.1	390.1	1.518	1.518	97.53	
S Total Heptachlorobiphenyls					9335.4	9335.4	0.0337	0.0337		
D PCB-188L	37:06	7006215	1.08	1.3133	100.5	100.5	0.0452	0.0452	100	
\$ PCB-178L	40:09	20165082	1.08	1.0313	368.2	368.2	0.0575	0.0575	92.06	
* PCB-180L	45:14	5309833	1.07		100.0	100.0				

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-170L	46:30	4386822	1.04	0.8362	98.8	98.8	0.0709	0.0709	98.80	
D PCB-189L	49:36	10502203	1.06	1.4414	99.5	99.5	0.5233	0.5233	99.49	
PCB-188	37:07	30886057	1.06	1.1350	388.4	388.4	0.0130	0.0130	97.10	
PCB-179	37:28	31130650	1.06	1.4276	382.8	382.8	0.0130	0.0130	95.70	
PCB-184	37:59	31018294	1.06	1.3672	398.3	398.3	0.0135	0.0135	99.57	
PCB-176	38:20	27007633	1.05	1.2331	384.5	384.5	0.0150	0.0150	96.12	
PCB-186	38:48	33163682	1.05	1.4737	395.0	395.0	0.0126	0.0126	98.76	
PCB-178	40:10	20314842	1.05	0.8946	398.6	398.6	0.0207	0.0207	99.66	
PCB-175	40:48	21220414	1.05	0.9524	391.1	391.1	0.0194	0.0194	97.78	
PCB-187	41:05	24989319	1.05	1.1018	398.1	398.1	0.0168	0.0168	99.53	
PCB-182	41:17	21292850	1.06	0.9247	404.2	404.2	0.0200	0.0200	101	
PCB-183	41:42	41853835	1.07	0.9825	747.8	747.8	0.0188	0.0188	93.48	Ma
PCB-185 (C183)	41:42	41853835	1.07	0.9825	747.8	747.8	0.0188	0.0188	93.48	Ma
PCB-174	41:56	21783169	1.05	0.9642	396.6	396.6	0.0192	0.0192	99.15	
PCB-177	42:22	21710754	1.05	0.9773	390.0	390.0	0.0189	0.0189	97.50	
PCB-181	42:45	21004998	1.04	0.9505	387.9	387.9	0.0195	0.0195	96.98	
PCB-171	42:58	39921079	1.06	0.9336	750.6	750.6	0.0198	0.0198	93.83	
PCB-173 (C171)	42:58	39921079	1.06	0.9336	750.6	750.6	0.0198	0.0198	93.83	
PCB-172	44:37	18849904	1.05	0.8519	388.4	388.4	0.0217	0.0217	97.11	
PCB-192	44:54	30290999	1.06	1.3459	395.1	395.1	0.0138	0.0138	98.77	
PCB-180	45:14	51963197	1.06	1.1676	781.3	781.3	0.0159	0.0159	97.66	
PCB-193 (C180)	45:14	51963197	1.06	1.1676	781.3	781.3	0.0159	0.0159	97.66	
PCB-191	45:37	29149341	1.05	1.2891	396.9	396.9	0.0144	0.0144	99.24	
PCB-170	46:31	19833085	1.07	1.1865	381.0	381.0	0.0211	0.0211	95.26	
PCB-190	47:02	29063711	1.07	1.3322	383.0	383.0	0.0139	0.0139	95.74	
PCB-189	49:38	40021622	1.05	0.9633	395.6	395.6	0.3673	0.3673	98.90	
S Total Octachlorobiphenyls					4709.7	4709.7	0.5380	0.5380		
D PCB-202L	42:28	5079458	0.91	0.9818	97.4	97.4	0.0159	0.0159	97.43	
* PCB-194L	51:43	7323260	0.91		100.0	100.0				
D PCB-205L	52:11	8638618	0.92	1.1786	100.1	100.1	0.0710	0.0710	100	
PCB-202	42:29	21547219	0.90	1.0359	409.5	409.5	0.0265	0.0265	102	
PCB-201	43:24	19791616	0.91	0.9754	399.5	399.5	0.0281	0.0281	99.87	
PCB-204	44:05	20940493	0.90	1.0485	393.2	393.2	0.0262	0.0262	98.30	
PCB-197	44:19	22095397	0.90	1.1458	379.6	379.6	0.0239	0.0239	94.91	
PCB-200	44:25	20163621	0.92	1.0072	394.1	394.1	0.0272	0.0272	98.53	
PCB-198	47:12	34466252	0.90	0.8698	780.1	780.1	0.0315	0.0315	97.52	
PCB-199 (C198)	47:12	34466252	0.90	0.8698	780.1	780.1	0.0315	0.0315	97.52	
PCB-196	47:53	15393419	0.91	0.7806	388.2	388.2	0.0351	0.0351	97.05	
PCB-203	48:05	18781869	0.91	0.9292	397.9	397.9	0.0295	0.0295	99.48	
PCB-195	49:24	28114967	0.90	0.8263	393.9	393.9	2.181	2.181	98.47	
PCB-194	51:44	32373452	0.89	0.9735	385.0	385.0	1.852	1.852	96.24	
PCB-205	52:13	36524269	0.91	1.0878	388.7	388.7	1.657	1.657	97.17	
S Total Nonachlorobiphenyls					1133.6	1133.6	0.5639	0.5639		
D PCB-208L	49:08	7135804	0.80	0.9576	101.8	101.8	0.2341	0.2341	102	
D PCB-206L	53:56	5087280	0.82	0.6947	100.0	100.0	0.3227	0.3227	100	
PCB-208	49:10	31300386	0.78	1.1374	385.6	385.6	0.5345	0.5345	96.41	
PCB-207	50:05	31656277	0.79	1.3756	376.5	376.5	0.5166	0.5166	94.14	
PCB-206	53:58	25218974	0.79	1.3346	371.4	371.4	0.6407	0.6407	92.86	
D PCB-209L	55:35	4867564	0.71	0.6669	99.7	99.7	0.0649	0.0649	99.67	
DCB Decachlorobiphenyl	55:36	20909699	0.71	1.1004	390.4	390.4	0.0167	0.0167	97.59	
S Polychlorinated biphenyls, Total					80103	80103	1.016	1.016		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L41668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-May-2024 20:12:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-005
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:28:19 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: V4XA

Date: 01-Jun-2024 03:02:33

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:36	-1	0.726	10499896	4198021	10819	27047	388		
202.0766	11:36	11:36	-1	0.726	3320541	1323401	3105	7762	426	3.16(2.66-3.60)	
PCB-3L											
200.0795	13:45	13:46	-1	0.861	10518916	3643335	10819	27047	337		
202.0766	13:45	13:46	-1	0.861	3284790	1138975	3105	7762	367	3.20(2.66-3.60)	
PCB-1											
188.0393	11:36	11:37	-1	1.001	52567345	21590493	21610	54025	999		
190.0363	11:36	11:37	-1	1.001	16002054	6532639	6987	17467	935	3.29(2.66-3.60)	
PCB-2											
188.0393	13:36	13:36	-1	0.989	51348814	17597324	21610	54025	814		
190.0363	13:36	13:36	-1	0.989	15769122	5303272	6987	17467	759	3.26(2.66-3.60)	
PCB-3											
188.0393	13:46	13:47	-1	1.001	51380244	17946321	21610	54025	830		
190.0363	13:46	13:47	-1	1.001	15887521	5461066	6987	17467	782	3.23(2.66-3.60)	
PCB-4L											
234.0406	14:01	14:02	-1	0.877	3393758	1102554	615	1537	1793		
236.0376	14:01	14:02	-1	0.877	2167860	702670	180	450	3904	1.57(1.33-1.79)	
PCB-9L											
234.0406	15:58	15:59	-1		5411179	1596131	615	1537	2595		
236.0376	15:58	15:59	-1		3346979	1007278	180	450	5596	1.62(1.33-1.79)	
PCB-8L											
234.0406	16:48	16:50	-2	1.199	20947142	5874636	615	1537	9552		
236.0376	16:48	16:50	-2	1.199	13011177	3675874	180	450	20422	1.61(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:53	19:54	-1	1.245	5935483	1491131	615	1537	2425		
236.0376	19:53	19:54	-1	1.245	3639719	917458	180	450	5097	1.63(1.33-1.79)	
PCB-4											
222.0003	14:02	14:02	-1	1.001	17125120	5792666	139	347	41674		
223.9974	14:02	14:02	-1	1.001	10765213	3590885	176	440	20403	1.59(1.33-1.79)	
PCB-10											
222.0003	14:12	14:13	-1	1.013	23788672	7684901	139	347	55287		
223.9974	14:12	14:13	-1	1.013	14866896	4745168	176	440	26961	1.60(1.33-1.79)	
PCB-9											
222.0003	15:59	16:00	-1	1.141	25947466	7827851	139	347	56315		
223.9974	15:59	16:00	-1	1.141	16234407	4866647	176	440	27651	1.60(1.33-1.79)	
PCB-7											
222.0003	16:09	16:10	-1	1.153	25344499	7265656	139	347	52271		
223.9974	16:09	16:10	-2	1.152	15837956	4529524	176	440	25736	1.60(1.33-1.79)	
PCB-6											
222.0003	16:24	16:25	-2	1.170	27732482	8207660	139	347	59048		
223.9974	16:24	16:25	-2	1.170	17247156	5056931	176	440	28733	1.61(1.33-1.79)	
PCB-5											
222.0003	16:42	16:43	-2	1.192	24668749	7089107	139	347	51001		
223.9974	16:42	16:43	-2	1.192	15351789	4393456	176	440	24963	1.61(1.33-1.79)	
PCB-8											
222.0003	16:50	16:50	-1	1.201	28996587	8328197	139	347	59915		
223.9974	16:50	16:50	-1	1.201	18035229	5152470	176	440	29275	1.61(1.33-1.79)	
PCB-14											
222.0003	18:27	18:28	-1	0.927	25213771	6854207	139	347	49311		
223.9974	18:27	18:28	-1	0.927	15800170	4277730	176	440	24305	1.60(1.33-1.79)	
PCB-11											
222.0003	19:17	19:18	-1	0.970	23488532	6267377	139	347	45089		
223.9974	19:17	19:18	-1	0.970	14664692	3910870	176	440	22221	1.60(1.33-1.79)	
PCB-12											
222.0003	19:35	19:36	-2	0.984	49408565	8392868	139	347	60380		
223.9974	19:35	19:36	-2	0.984	30740962	5217436	176	440	29645	1.61(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:35	19:36	-2	0.984	49408565	8392868	139	347	60380		
223.9974	19:35	19:36	-2	0.984	30740962	5217436	176	440	29645	1.61(1.33-1.79)	
PCB-15											
222.0003	19:54	19:55	-1	1.001	29162144	7221687	139	347	51955		
223.9974	19:54	19:55	-1	1.001	18121668	4507472	176	440	25611	1.61(1.33-1.79)	
PCB-19L											
268.0016	17:06	17:08	-2	0.840	1829473	502199	905	2262	555		
269.9986	17:06	17:08	-2	0.840	1708460	470154	1528	3820	308	1.07(0.88-1.20)	
PCB-32L											
268.0016	20:22	20:23	-1		3018197	723962	905	2262	800		
269.9986	20:22	20:23	-1		2744127	692559	1528	3820	453	1.10(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:37	22:38	-1		8581779	2065110	874	2185	2363		
269.9986	22:37	22:38	-1		8155969	1968392	556	1390	3540	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:55	22:56	-1	1.013	32391092	7626916	874	2185	8726		
269.9986	22:55	22:56	-1	1.013	30729436	7307491	556	1390	13143	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:55	26:55	-1	1.189	7573702	1631541	874	2185	1867		
269.9986	26:55	26:55	-1	1.189	7157103	1570970	556	1390	2825	1.06(0.88-1.20)	
PCB-19											
255.9613	17:08	17:09	-1	1.002	9275969	2592939	66	165	39287		
257.9584	17:08	17:09	-1	1.002	8735123	2454816	79	197	31074	1.06(0.88-1.20)	
PCB-18											
255.9613	18:58	18:59	-1	1.109	25519771	4914657	66	165	74465		
257.9584	18:57	18:59	-2	1.108	24164184	4688146	79	197	59344	1.06(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:58	18:59	-1	1.109	25519771	4914657	66	165	74465		
257.9584	18:57	18:59	-2	1.108	24164184	4688146	79	197	59344	1.06(0.88-1.20)	
PCB-17											
255.9613	19:24	19:26	-2	1.135	8919519	2281516	66	165	34568		
257.9584	19:24	19:26	-2	1.135	8419638	2152476	79	197	27247	1.06(0.88-1.20)	
PCB-27											
255.9613	19:38	19:39	-1	1.148	13533947	3445740	66	165	52208		
257.9584	19:38	19:39	-1	1.148	12826715	3262599	79	197	41299	1.06(0.88-1.20)	
PCB-24											
255.9613	19:45	19:46	-1	1.155	12241488	3105438	66	165	47052		
257.9584	19:45	19:46	-1	1.155	11698263	2945413	79	197	37284	1.05(0.88-1.20)	
PCB-16											
255.9613	19:52	19:53	-1	1.162	8226613	2110810	66	165	31982		
257.9584	19:52	19:53	-1	1.162	7815264	1959309	79	197	24801	1.05(0.88-1.20)	
PCB-32											
255.9613	20:23	20:23	-1	1.192	13256398	3275466	66	165	49628		
257.9584	20:23	20:23	-1	1.192	12621033	3130282	79	197	39624	1.05(0.88-1.20)	
PCB-34											
255.9613	21:38	21:39	-1	1.265	32745543	8016693	23154	57885	346		
257.9584	21:38	21:39	-1	1.265	30988031	7632742	22151	55377	345	1.06(0.88-1.20)	
PCB-23											
255.9613	21:48	21:48	-1	1.274	30315107	7381738	23154	57885	319		
257.9584	21:48	21:48	-1	1.274	29058041	7037873	22151	55377	318	1.04(0.88-1.20)	
PCB-26											
255.9613	22:07	22:08	-1	1.293	66680760	14331555	23154	57885	619		
257.9584	22:07	22:08	-1	1.293	63613904	13616308	22151	55377	615	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:07	22:08	-1	1.293	66680760	14331555	23154	57885	619		
257.9584	22:07	22:08	-1	1.293	63613904	13616308	22151	55377	615	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:20	22:21	-1	0.830	36470489	8333326	23154	57885	360		
257.9584	22:20	22:21	-1	0.830	34672568	7829965	22151	55377	353	1.05(0.88-1.20)	
PCB-31											
255.9613	22:39	22:40	-1	0.842	32476974	7710222	23154	57885	333		
257.9584	22:39	22:40	-1	0.842	31254193	7419289	22151	55377	335	1.04(0.88-1.20)	
PCB-20											
255.9613	22:57	22:58	-1	0.853	68894723	13821483	23154	57885	597		
257.9584	22:57	22:58	-1	0.853	66461968	13383374	22151	55377	604	1.04(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:57	22:58	-1	0.853	68894723	13821483	23154	57885	597		
257.9584	22:57	22:58	-1	0.853	66461968	13383374	22151	55377	604	1.04(0.88-1.20)	
PCB-21											
255.9613	23:07	23:07	-1	0.859	61897185	7846418	23154	57885	339		M
257.9584	23:07	23:07	-1	0.859	59869797	7552076	22151	55377	341	1.03(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:07	23:07	-1	0.859	61897185	7846418	23154	57885	339		M
257.9584	23:07	23:07	-1	0.859	59869797	7552076	22151	55377	341	1.03(0.88-1.20)	M
PCB-22											
255.9613	23:34	23:35	-1	0.876	34499171	8137093	23154	57885	351		
257.9584	23:34	23:35	-1	0.876	32697523	7673610	22151	55377	346	1.06(0.88-1.20)	
PCB-36											
255.9613	25:08	25:09	-1	0.934	31347288	6777980	23154	57885	293		
257.9584	25:08	25:09	-1	0.934	29995275	6531454	22151	55377	295	1.05(0.88-1.20)	
PCB-39											
255.9613	25:29	25:30	-1	0.947	33790805	7562066	23154	57885	327		
257.9584	25:29	25:30	-1	0.947	32143311	7157383	22151	55377	323	1.05(0.88-1.20)	
PCB-38											
255.9613	26:04	26:05	-1	0.969	31803876	7164978	23154	57885	309		
257.9584	26:04	26:05	-1	0.969	30144606	6756682	22151	55377	305	1.06(0.88-1.20)	
PCB-35											
255.9613	26:32	26:32	-1	0.986	32910785	7272006	23154	57885	314		
257.9584	26:32	26:32	-1	0.986	32093687	6905650	22151	55377	312	1.03(0.88-1.20)	
PCB-37											
255.9613	26:56	26:57	-1	1.001	32362844	7155081	23154	57885	309		
257.9584	26:56	26:57	-1	1.001	30917415	6830742	22151	55377	308	1.05(0.88-1.20)	
PCB-54L											
301.9626	20:12	20:12	-1	0.816	1405547	341568	84	210	4066		
303.9597	20:12	20:12	-1	0.816	1757362	428899	6	15	71483	0.80(0.65-0.89)	
PCB-52L											
301.9626	24:46	24:46	-1		3693083	829495	597	1492	1389		
303.9597	24:46	24:46	-1		4571815	1012108	649	1622	1559	0.81(0.65-0.89)	
PCB-79L											
301.9626	32:41	32:41	0	0.971	18813935	3902461	597	1492	6537		
303.9597	32:41	32:41	0	0.971	23495565	4853340	649	1622	7478	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:40	33:41	-1	1.360	4569478	932159	597	1492	1561		
303.9597	33:40	33:41	-1	1.360	5765983	1185814	649	1622	1827	0.79(0.65-0.89)	
PCB-77L											
301.9626	34:14	34:14	-1	1.382	5138114	984600	597	1492	1649		
303.9597	34:14	34:14	-1	1.382	6312455	1189506	649	1622	1833	0.81(0.65-0.89)	
PCB-54											
289.9224	20:12	20:13	-1	1.000	7283061	1843939	51	127	36156		
291.9194	20:12	20:13	-1	1.000	8973888	2249882	144	360	15624	0.81(0.65-0.89)	
PCB-50											
289.9224	22:23	22:24	-1	1.108	31048634	6450170	11985	29962	538		
291.9194	22:23	22:24	-1	1.108	39638845	8263179	15858	39645	521	0.78(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:23	22:24	-1	1.108	31048634	6450170	11985	29962	538		
291.9194	22:23	22:24	-1	1.108	39638845	8263179	15858	39645	521	0.78(0.65-0.89)	
PCB-45											
289.9224	23:07	23:08	-1	1.145	30645858	3968119	11985	29962	331		M
291.9194	23:07	23:08	-1	1.145	38839930	4973541	15858	39645	314	0.79(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:07	23:08	-1	1.145	30645858	3968119	11985	29962	331		M
291.9194	23:07	23:08	-1	1.145	38839930	4973541	15858	39645	314	0.79(0.65-0.89)	M
PCB-46											
289.9224	23:21	23:22	-1	1.157	12780266	3004695	11985	29962	251		
291.9194	23:21	23:22	-1	1.157	16054240	3753956	15858	39645	237	0.80(0.65-0.89)	
PCB-52											
289.9224	24:46	24:47	-1	1.227	16997835	3818410	11985	29962	319		
291.9194	24:46	24:47	-1	1.227	21356198	4841032	15858	39645	305	0.80(0.65-0.89)	
PCB-43											
289.9224	24:56	24:56	-1	1.234	37178269	4927779	11985	29962	411		M
291.9194	24:56	24:56	-1	1.234	47225368	6296996	15858	39645	397	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:56	24:56	-1	1.234	37178269	4927779	11985	29962	411		M
291.9194	24:56	24:56	-1	1.234	47225368	6296996	15858	39645	397	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:13	25:14	-1	1.249	38275650	5858472	11985	29962	489		
291.9194	25:13	25:14	-1	1.249	48572964	7397560	15858	39645	466	0.79(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:13	25:14	-1	1.249	38275650	5858472	11985	29962	489		
291.9194	25:13	25:14	-1	1.249	48572964	7397560	15858	39645	466	0.79(0.65-0.89)	
PCB-48											
289.9224	25:32	25:33	-1	1.265	15119844	3404443	11985	29962	284		
291.9194	25:32	25:33	-1	1.265	19152124	4315899	15858	39645	272	0.79(0.65-0.89)	
PCB-44											
289.9224	25:47	25:48	-1	1.277	53047964	9666463	11985	29962	807		
291.9194	25:47	25:48	-1	1.277	67700351	12358426	15858	39645	779	0.78(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:47	25:48	-1	1.277	53047964	9666463	11985	29962	807		
291.9194	25:47	25:48	-1	1.277	67700351	12358426	15858	39645	779	0.78(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:47	25:48	-1	1.277	53047964	9666463	11985	29962	807		
291.9194	25:47	25:48	-1	1.277	67700351	12358426	15858	39645	779	0.78(0.65-0.89)	
PCB-59											
289.9224	26:05	26:06	-1	1.292	64900099	9573023	11985	29962	799		
291.9194	26:05	26:06	-1	1.292	82970805	12200986	15858	39645	769	0.78(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:05	26:06	-1	1.292	64900099	9573023	11985	29962	799		
291.9194	26:05	26:06	-1	1.292	82970805	12200986	15858	39645	769	0.78(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:05	26:06	-1	1.292	64900099	9573023	11985	29962	799		
291.9194	26:05	26:06	-1	1.292	82970805	12200986	15858	39645	769	0.78(0.65-0.89)	
PCB-42											
289.9224	26:18	26:18	-1	1.302	14647872	3288662	11985	29962	274		
291.9194	26:18	26:18	-1	1.302	18468357	4131349	15858	39645	261	0.79(0.65-0.89)	
PCB-40											
289.9224	26:48	26:48	-1	1.327	48057577	7516308	11985	29962	627		M
291.9194	26:48	26:48	-1	1.327	61486178	9580775	15858	39645	604	0.78(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:48	26:48	-1	1.327	48057577	7516308	11985	29962	627		M
291.9194	26:48	26:48	-1	1.327	61486178	9580775	15858	39645	604	0.78(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:48	26:48	-1	1.327	48057577	7516308	11985	29962	627		M
291.9194	26:48	26:48	-1	1.327	61486178	9580775	15858	39645	604	0.78(0.65-0.89)	M
PCB-64											
289.9224	27:00	27:01	-1	1.337	20703479	4478816	11985	29962	374		
291.9194	27:00	27:01	-1	1.337	26363441	5720820	15858	39645	361	0.79(0.65-0.89)	
PCB-72											
289.9224	27:51	27:51	-1	0.827	20184549	4428709	11985	29962	370		
291.9194	27:51	27:51	-1	0.827	25375260	5665296	15858	39645	357	0.80(0.65-0.89)	
PCB-68											
289.9224	28:08	28:09	-1	0.836	23058556	4670938	11985	29962	390		
291.9194	28:08	28:09	-1	0.836	29656263	5939346	15858	39645	375	0.78(0.65-0.89)	
PCB-57											
289.9224	28:33	28:34	-1	0.848	19971461	4310538	11985	29962	360		
291.9194	28:33	28:34	-1	0.848	25522237	5486100	15858	39645	346	0.78(0.65-0.89)	
PCB-58											
289.9224	28:47	28:48	-1	0.855	24841978	5171706	11985	29962	432		
291.9194	28:47	28:48	-1	0.855	31574912	6628287	15858	39645	418	0.79(0.65-0.89)	
PCB-67											
289.9224	28:57	28:58	-1	0.860	25918946	5245140	11985	29962	438		
291.9194	28:57	28:58	-1	0.860	32897827	6710193	15858	39645	423	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:13	29:14	0	0.868	20163244	4147399	11985	29962	346		
291.9194	29:13	29:14	0	0.868	25499886	5242981	15858	39645	331	0.79(0.65-0.89)	
PCB-61											
289.9224	29:33	29:34	-1	0.878	92572268	10911381	11985	29962	910		M
291.9194	29:33	29:34	-1	0.878	118991326	14173722	15858	39645	894	0.78(0.65-0.89)	M
PCB-70 (C61)											
289.9224	29:33	29:34	-1	0.878	92572268	10911381	11985	29962	910		M
291.9194	29:33	29:34	-1	0.878	118991326	14173722	15858	39645	894	0.78(0.65-0.89)	M
PCB-74 (C61)											
289.9224	29:33	29:34	-1	0.878	92572268	10911381	11985	29962	910		M
291.9194	29:33	29:34	-1	0.878	118991326	14173722	15858	39645	894	0.78(0.65-0.89)	M
PCB-76 (C61)											
289.9224	29:33	29:34	-1	0.878	92572268	10911381	11985	29962	910		M
291.9194	29:33	29:34	-1	0.878	118991326	14173722	15858	39645	894	0.78(0.65-0.89)	M
PCB-66											
289.9224	29:53	29:53	-1	0.887	23297327	4782605	11985	29962	399		
291.9194	29:53	29:53	-1	0.887	29683676	6147242	15858	39645	388	0.78(0.65-0.89)	
PCB-55											
289.9224	30:03	30:03	0	0.892	23868544	5020534	11985	29962	419		
291.9194	30:03	30:03	0	0.892	30361740	6401441	15858	39645	404	0.79(0.65-0.89)	
PCB-56											
289.9224	30:33	30:33	-1	0.907	22138128	4649879	11985	29962	388		
291.9194	30:33	30:33	-1	0.907	28113506	5940457	15858	39645	375	0.79(0.65-0.89)	
PCB-60											
289.9224	30:46	30:46	-1	0.914	20162897	4129204	11985	29962	345		
291.9194	30:46	30:46	-1	0.914	25576853	5248560	15858	39645	331	0.79(0.65-0.89)	
PCB-80											
289.9224	31:10	31:11	-1	0.926	24248510	4869692	11985	29962	406		
291.9194	31:10	31:11	-1	0.926	30455486	6161428	15858	39645	389	0.80(0.65-0.89)	
PCB-79											
289.9224	32:41	32:42	-1	0.971	25881910	4980417	11985	29962	416		
291.9194	32:41	32:42	-1	0.971	32884181	6368136	15858	39645	402	0.79(0.65-0.89)	
PCB-78											
289.9224	33:15	33:15	0	0.988	20252892	4013245	11985	29962	335		
291.9194	33:15	33:15	0	0.988	25883996	5184409	15858	39645	327	0.78(0.65-0.89)	
PCB-81											
289.9224	33:41	33:42	-1	1.001	18823030	3711092	11985	29962	310		
291.9194	33:41	33:42	-1	1.001	23908378	4671043	15858	39645	295	0.79(0.65-0.89)	
PCB-77											
289.9224	34:15	34:16	-1	1.001	19939084	4035093	11985	29962	337		
291.9194	34:15	34:16	-1	1.001	25305487	5095681	15858	39645	321	0.79(0.65-0.89)	
PCB-104L											
337.9207	25:42	25:42	-1	0.813	4115986	911822	113	282	8069		
339.9178	25:42	25:42	-1	0.813	2556017	571161	35	87	16319	1.61(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:40	28:41	-1	1.116	11552735	2434662	113	282	21546		
339.9178	28:40	28:41	-1	1.116	7254206	1533843	35	87	43824	1.59(1.32-1.78)	
PCB-101L											
337.9207	31:36	31:37	-1		3450720	735833	113	282	6512		
339.9178	31:36	31:37	-1		2182830	457789	35	87	13080	1.58(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:17	0	1.085	17118191	3425571	113	282	30315		
339.9178	34:17	34:17	0	1.085	10705175	2157409	35	87	61640	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	0	1.147	6356450	1285843	5518	13795	233		
339.9178	36:15	36:15	0	1.147	4021253	802670	3723	9307	216	1.58(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	6609999	1288487	5518	13795	234		
339.9178	36:34	36:34	0	1.157	4130249	804055	3723	9307	216	1.60(1.32-1.78)	
PCB-114L											
337.9207	37:06	37:06	0	1.174	6505303	1259091	5518	13795	228		
339.9178	37:05	37:06	-1	1.173	4054221	780103	3723	9307	210	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:44	37:45	0	1.194	6192666	1207667	5518	13795	219		
339.9178	37:44	37:45	0	1.194	3904195	766070	3723	9307	206	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:14	-1		6530367	1264882	5518	13795	229		
339.9178	39:13	39:14	-1		4064988	784130	3723	9307	211	1.61(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:50	0	1.292	6183273	1168925	5518	13795	212		
339.9178	40:50	40:50	0	1.292	3920029	739706	3723	9307	199	1.58(1.32-1.78)	
PCB-104											
325.8804	25:43	25:44	-1	1.001	16562646	3648861	176	440	20732		
327.8775	25:43	25:44	-1	1.001	10429147	2298692	72	180	31926	1.59(1.32-1.78)	
PCB-96											
325.8804	26:05	26:06	-1	1.015	17827479	3965370	176	440	22531		
327.8775	26:05	26:06	-1	1.015	11297278	2491538	72	180	34605	1.58(1.32-1.78)	
PCB-103											
325.8804	28:01	28:02	-1	1.091	14134986	3012600	176	440	17117		
327.8775	28:01	28:02	-1	1.091	8891276	1894090	72	180	26307	1.59(1.32-1.78)	
PCB-94											
325.8804	28:15	28:16	-1	1.100	11807228	2514482	176	440	14287		
327.8775	28:15	28:16	-1	1.100	7486459	1593487	72	180	22132	1.58(1.32-1.78)	
PCB-95											
325.8804	28:41	28:42	-1	1.117	13331631	2886470	176	440	16400		
327.8775	28:41	28:42	-1	1.117	8411821	1793743	72	180	24913	1.58(1.32-1.78)	
PCB-93											
325.8804	28:54	28:55	-1	1.125	27011792	5525339	176	440	31394		
327.8775	28:54	28:55	-1	1.125	16926067	3451625	72	180	47939	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:54	28:55	-1	1.125	27011792	5525339	176	440	31394		
327.8775	28:54	28:55	-1	1.125	16926067	3451625	72	180	47939	1.60(1.32-1.78)	
PCB-98											
325.8804	29:04	29:04	-1	1.131	26531184	3329904	176	440	18920		M
327.8775	29:04	29:04	-1	1.131	16762369	2086308	72	180	28977	1.58(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:04	29:04	-1	1.131	26531184	3329904	176	440	18920		M
327.8775	29:04	29:04	-1	1.131	16762369	2086308	72	180	28977	1.58(1.32-1.78)	M
PCB-88											
325.8804	29:33	29:33	-1	1.150	25981572	2825522	176	440	16054		
327.8775	29:33	29:33	-1	1.150	16426112	1780698	72	180	24732	1.58(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	-1	1.150	25981572	2825522	176	440	16054		
327.8775	29:33	29:33	-1	1.150	16426112	1780698	72	180	24732	1.58(1.32-1.78)	
PCB-84											
325.8804	29:46	29:47	-1	1.159	11604519	2389938	176	440	13579		
327.8775	29:46	29:47	-1	1.159	7338097	1530570	72	180	21258	1.58(1.32-1.78)	
PCB-89											
325.8804	30:15	30:16	-1	1.177	12282608	2577865	176	440	14647		
327.8775	30:15	30:16	-1	1.177	7698116	1591552	72	180	22105	1.60(1.32-1.78)	
PCB-121											
325.8804	30:40	30:41	-1	1.194	20949740	4299713	176	440	24430		
327.8775	30:40	30:41	-1	1.194	13115189	2699710	72	180	37496	1.60(1.32-1.78)	
PCB-92											
325.8804	31:02	31:03	-1	0.856	13645980	2811326	176	440	15973		
327.8775	31:02	31:03	-1	0.856	8612099	1789982	72	180	24861	1.58(1.32-1.78)	
PCB-90											
325.8804	31:36	31:37	-1	1.230	46067511	6768862	176	440	38459		
327.8775	31:36	31:37	-1	1.230	28963617	4274615	72	180	59370	1.59(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:36	31:37	-1	1.230	46067511	6768862	176	440	38459		
327.8775	31:36	31:37	-1	1.230	28963617	4274615	72	180	59370	1.59(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:36	31:37	-1	1.230	46067511	6768862	176	440	38459		
327.8775	31:36	31:37	-1	1.230	28963617	4274615	72	180	59370	1.59(1.32-1.78)	
PCB-83											
325.8804	32:12	32:13	-1	1.253	27000672	3432014	176	440	19500		
327.8775	32:12	32:13	-1	1.253	17113312	2164383	72	180	30061	1.58(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:12	32:13	-1	1.253	27000672	3432014	176	440	19500		
327.8775	32:12	32:13	-1	1.253	17113312	2164383	72	180	30061	1.58(1.32-1.78)	
PCB-112											
325.8804	32:19	32:20	-1	1.258	22203726	4464855	176	440	25368		
327.8775	32:19	32:20	-1	1.258	14041015	2797768	72	180	38858	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-85											
325.8804	33:25	33:25	0	1.301	49981854	6095286	176	440	34632		
327.8775	33:24	33:25	-1	1.300	31526610	3836023	72	180	53278	1.59(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:25	33:25	0	1.301	49981854	6095286	176	440	34632		
327.8775	33:24	33:25	-1	1.300	31526610	3836023	72	180	53278	1.59(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:25	33:25	0	1.301	49981854	6095286	176	440	34632		
327.8775	33:24	33:25	-1	1.300	31526610	3836023	72	180	53278	1.59(1.32-1.78)	
PCB-110											M
325.8804	33:36	33:37	-1	1.308	37768952	4514296	176	440	25649		
327.8775	33:36	33:37	-1	1.308	23836087	2803436	72	180	38937	1.58(1.32-1.78)	M
PCB-115 (C110)											M
325.8804	33:36	33:37	-1	1.308	37768952	4514296	176	440	25649		
327.8775	33:36	33:37	-1	1.308	23836087	2803436	72	180	38937	1.58(1.32-1.78)	M
PCB-82											
325.8804	33:54	33:55	-1	1.320	13353583	2566933	176	440	14585		
327.8775	33:54	33:55	-1	1.320	8352241	1610559	72	180	22369	1.60(1.32-1.78)	
PCB-111											
325.8804	34:19	34:19	0	1.336	19497058	3905402	176	440	22190		
327.8775	34:19	34:19	0	1.336	12352811	2477599	72	180	34411	1.58(1.32-1.78)	
PCB-120											
325.8804	34:47	34:47	0	1.354	23386560	4679515	176	440	26588		
327.8775	34:46	34:47	-1	1.353	14834867	2964250	72	180	41170	1.58(1.32-1.78)	
PCB-108											
325.8804	35:54	35:55	-1	1.397	56112216	10894674	23384	58460	466		
327.8775	35:54	35:55	-1	1.397	35263518	6847660	15078	37695	454	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:54	35:55	-1	1.397	56112216	10894674	23384	58460	466		
327.8775	35:54	35:55	-1	1.397	35263518	6847660	15078	37695	454	1.59(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.407	29263623	5567936	23384	58460	238		
327.8775	36:09	36:09	0	1.407	18905765	3537259	15078	37695	235	1.55(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.001	26699152	5186378	23384	58460	222		
327.8775	36:16	36:16	0	1.001	17027503	3294302	15078	37695	218	1.57(1.32-1.78)	
PCB-106											
325.8804	36:22	36:23	-1	1.004	26537350	5306112	23384	58460	227		
327.8775	36:22	36:23	-1	1.004	16965814	3365227	15078	37695	223	1.56(1.32-1.78)	
PCB-118											
325.8804	36:35	36:36	-1	1.000	30206837	5637865	23384	58460	241		
327.8775	36:35	36:36	-1	1.000	19281004	3593433	15078	37695	238	1.57(1.32-1.78)	
PCB-122											
325.8804	36:56	36:56	0	1.010	23233300	4707830	23384	58460	201		
327.8775	36:56	36:56	0	1.010	14838813	2965557	15078	37695	197	1.57(1.32-1.78)	
PCB-114											
325.8804	37:07	37:08	-1	1.000	27187817	5064584	23384	58460	217		
327.8775	37:07	37:08	-1	1.000	17422366	3235541	15078	37695	215	1.56(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	28114444	5318905	23384	58460	227		
327.8775	37:46	37:46	0	1.001	17757681	3322599	15078	37695	220	1.58(1.32-1.78)	
PCB-127											
325.8804	39:14	39:15	0	1.040	28164286	5242721	23384	58460	224		
327.8775	39:14	39:15	0	1.040	17911835	3295039	15078	37695	219	1.57(1.32-1.78)	
PCB-126											
325.8804	40:51	40:52	-1	1.000	27357863	4711472	23384	58460	201		
327.8775	40:51	40:52	-1	1.000	17303152	2992269	15078	37695	198	1.58(1.32-1.78)	
PCB-155L											
371.8817	31:22	31:23	-1	0.791	3272192	675452	81	202	8339		
373.8788	31:22	31:23	-1	0.791	2619986	560781	100	250	5608	1.25(1.05-1.43)	
PCB-153L											
371.8817	38:27	38:27	0	0.901	15384626	3011029	2447	6117	1230		
373.8788	38:27	38:27	0	0.901	11990178	2361961	2020	5050	1169	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		4021576	761724	2447	6117	311		
373.8788	39:41	39:41	0		3133955	597812	2020	5050	296	1.28(1.05-1.43)	
PCB-159L											
371.8817	41:56	41:56	0	0.982	4551409	893154	2447	6117	365		
373.8788	41:56	41:56	0	0.982	3500550	684821	2020	5050	339	1.30(0.00-0.00)	
PCB-167L											
371.8817	42:42	42:42	0	1.076	4894808	949592	2447	6117	388		
373.8788	42:42	42:42	0	1.076	3853738	748063	2020	5050	370	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156L											
371.8817	43:50	43:51	0	1.105	9427602	1256749	2447	6117	514		
373.8788	43:50	43:51	0	1.105	7369724	975988	2020	5050	483	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:50	43:51	0	1.105	9427602	1256749	2447	6117	514		
373.8788	43:50	43:51	0	1.105	7369724	975988	2020	5050	483	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:05	47:05	0	1.186	4916242	916681	2447	6117	375		
373.8788	47:05	47:05	0	1.186	3845463	728494	2020	5050	361	1.28(1.05-1.43)	
PCB-155											
359.8415	31:24	31:25	-1	1.001	12402388	2564079	62	155	41356		
361.8385	31:24	31:25	-1	1.001	9849342	2028692	77	192	26347	1.26(1.05-1.43)	
PCB-152											
359.8415	31:35	31:36	0	1.007	12749448	2632383	62	155	42458		
361.8385	31:35	31:36	0	1.007	10086981	2076319	77	192	26965	1.26(1.05-1.43)	
PCB-150											
359.8415	31:45	31:46	-1	1.012	13352317	2720812	62	155	43884		
361.8385	31:45	31:46	-1	1.012	10538539	2149647	77	192	27917	1.27(1.05-1.43)	
PCB-136											
359.8415	32:07	32:08	-1	1.024	13269139	2656693	62	155	42850		
361.8385	32:07	32:08	-1	1.024	10474610	2087707	77	192	27113	1.27(1.05-1.43)	
PCB-145											
359.8415	32:25	32:25	-1	1.033	12720068	2589014	62	155	41758		
361.8385	32:25	32:25	-1	1.033	9952343	2017679	77	192	26204	1.28(1.05-1.43)	
PCB-148											
359.8415	33:56	33:57	-1	1.082	10032646	2019314	62	155	32570		
361.8385	33:56	33:57	-1	1.082	7924748	1602259	77	192	20809	1.27(1.05-1.43)	
PCB-135											
359.8415	34:31	34:32	-1	1.100	19071661	2211848	62	155	35675		M
361.8385	34:31	34:32	-1	1.100	15053955	1741114	77	192	22612	1.27(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:31	34:32	-1	1.100	19071661	2211848	62	155	35675		M
361.8385	34:31	34:32	-1	1.100	15053955	1741114	77	192	22612	1.27(1.05-1.43)	M
PCB-154											
359.8415	34:47	34:47	-1	1.108	10765269	2174852	62	155	35078		
361.8385	34:47	34:47	-1	1.108	8513190	1703607	77	192	22125	1.26(1.05-1.43)	
PCB-144											
359.8415	35:05	35:06	-1	1.118	10112340	2006757	62	155	32367		
361.8385	35:05	35:06	-1	1.118	8027032	1594884	77	192	20713	1.26(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	33290962	6809592	7018	17545	970		
361.8385	35:27	35:27	0	1.130	26354858	5371373	4599	11497	1168	1.26(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	33290962	6809592	7018	17545	970		
361.8385	35:27	35:27	0	1.130	26354858	5371373	4599	11497	1168	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-134											
359.8415	35:45	35:45	-1	1.139	29163231	3052586	7018	17545	435		
361.8385	35:45	35:45	-1	1.139	23214772	2420877	4599	11497	526	1.26(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:45	35:45	-1	1.139	29163231	3052586	7018	17545	435		
361.8385	35:45	35:45	-1	1.139	23214772	2420877	4599	11497	526	1.26(1.05-1.43)	
PCB-139											
359.8415	36:03	36:04	-1	1.149	32892022	5980835	7018	17545	852		
361.8385	36:03	36:04	-1	1.149	26146416	4775232	4599	11497	1038	1.26(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:03	36:04	-1	1.149	32892022	5980835	7018	17545	852		
361.8385	36:03	36:04	-1	1.149	26146416	4775232	4599	11497	1038	1.26(1.05-1.43)	
PCB-131											
359.8415	36:15	36:15	-1	1.155	14367703	2800912	7018	17545	399		
361.8385	36:15	36:15	-1	1.155	11438938	2238869	4599	11497	487	1.26(1.05-1.43)	
PCB-142											
359.8415	36:23	36:24	-1	1.160	14279654	2850607	7018	17545	406		
361.8385	36:23	36:24	-1	1.160	11447638	2289825	4599	11497	498	1.25(1.05-1.43)	
PCB-132											
359.8415	36:42	36:43	-1	1.170	13661131	2714090	7018	17545	387		
361.8385	36:42	36:43	-1	1.170	10942845	2164599	4599	11497	471	1.25(1.05-1.43)	
PCB-133											
359.8415	37:13	37:14	-1	1.186	15673775	3034629	7018	17545	432		
361.8385	37:13	37:14	-1	1.186	12573318	2407911	4599	11497	524	1.25(1.05-1.43)	
PCB-165											
359.8415	37:37	37:37	0	0.881	19300636	3808288	7018	17545	543		
361.8385	37:37	37:37	0	0.881	15287853	3022284	4599	11497	657	1.26(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	-1	0.887	18188179	3575888	7018	17545	510		
361.8385	37:52	37:52	-1	0.887	14560172	2883285	4599	11497	627	1.25(1.05-1.43)	
PCB-161											
359.8415	37:59	38:00	0	0.890	21251579	4230862	7018	17545	603		
361.8385	37:59	38:00	0	0.890	16862245	3346103	4599	11497	728	1.26(1.05-1.43)	
PCB-153											
359.8415	38:29	38:30	0	0.901	41584061	5988173	7018	17545	853		
361.8385	38:29	38:30	0	0.901	32988053	4780134	4599	11497	1039	1.26(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:29	38:30	0	0.901	41584061	5988173	7018	17545	853		
361.8385	38:29	38:30	0	0.901	32988053	4780134	4599	11497	1039	1.26(1.05-1.43)	
PCB-141											
359.8415	38:40	38:41	-1	0.905	16194557	2920342	7018	17545	416		
361.8385	38:40	38:41	-1	0.905	12869976	2334490	4599	11497	508	1.26(1.05-1.43)	
PCB-130											
359.8415	39:04	39:05	-1	0.915	13116472	2604384	7018	17545	371		
361.8385	39:04	39:05	-1	0.915	10413690	2054855	4599	11497	447	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-137											
359.8415	39:18	39:18	0	0.920	14331117	2927825	7018	17545	417		
361.8385	39:18	39:18	0	0.920	11466179	2347456	4599	11497	510	1.25(1.05-1.43)	
PCB-164											
359.8415	39:25	39:26	-1	0.923	19991096	3736989	7018	17545	532		
361.8385	39:25	39:26	-1	0.923	15763552	2931595	4599	11497	637	1.27(1.05-1.43)	
PCB-129											
359.8415	39:44	39:44	0	0.930	70852247	8207715	7018	17545	1170		M
361.8385	39:44	39:44	0	0.930	56283132	6469680	4599	11497	1407	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:44	39:44	0	0.930	70852247	8207715	7018	17545	1170		M
361.8385	39:44	39:44	0	0.930	56283132	6469680	4599	11497	1407	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:44	39:44	0	0.930	70852247	8207715	7018	17545	1170		M
361.8385	39:44	39:44	0	0.930	56283132	6469680	4599	11497	1407	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:44	39:44	0	0.930	70852247	8207715	7018	17545	1170		M
361.8385	39:44	39:44	0	0.930	56283132	6469680	4599	11497	1407	1.26(1.05-1.43)	M
PCB-158											
359.8415	40:06	40:07	0	0.939	24273259	4495028	7018	17545	640		Ma
361.8385	40:06	40:07	0	0.939	19147696	3534956	4599	11497	769	1.27(1.05-1.43)	M
PCB-128											
359.8415	40:57	40:57	0	0.959	37887683	5769411	7018	17545	822		
361.8385	40:57	40:57	0	0.959	30189595	4546093	4599	11497	988	1.25(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	37887683	5769411	7018	17545	822		
361.8385	40:57	40:57	0	0.959	30189595	4546093	4599	11497	988	1.25(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.983	25758437	4981564	7018	17545	710		
361.8385	41:58	41:58	0	0.983	20599018	3902089	4599	11497	848	1.25(1.05-1.43)	
PCB-162											
359.8415	42:15	42:15	0	0.990	23165310	4172381	7018	17545	595		
361.8385	42:15	42:15	0	0.990	18519485	3308080	4599	11497	719	1.25(1.05-1.43)	
PCB-167											
359.8415	42:43	42:44	0	1.001	21086036	4067502	7018	17545	580		
361.8385	42:43	42:44	0	1.001	16830898	3209669	4599	11497	698	1.25(1.05-1.43)	
PCB-156											
359.8415	43:52	43:53	-1	1.001	40941586	5502007	7018	17545	784		
361.8385	43:52	43:53	-1	1.001	32643565	4370876	4599	11497	950	1.25(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:52	43:53	-1	1.001	40941586	5502007	7018	17545	784		
361.8385	43:52	43:53	-1	1.001	32643565	4370876	4599	11497	950	1.25(1.05-1.43)	
PCB-169											
359.8415	47:05	47:06	-1	1.000	22284432	3935033	7018	17545	561		
361.8385	47:05	47:06	-1	1.000	17462401	3105432	4599	11497	675	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:06	37:07	-1	0.820	3642228	723802	100	250	7238		
407.8398	37:06	37:07	-1	0.820	3363987	669566	136	340	4923	1.08(0.89-1.21)	
PCB-178L											
405.8428	40:09	40:10	-1	0.887	10456618	1989208	100	250	19892		
407.8398	40:09	40:10	-1	0.887	9708464	1866869	136	340	13727	1.08(0.89-1.21)	
PCB-180L											
405.8428	45:14	45:15	-1		2744400	512502	100	250	5125		
407.8398	45:15	45:15	0		2565433	482035	136	340	3544	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:30	46:30	0	1.028	2233737	415377	100	250	4154		
407.8398	46:30	46:30	0	1.028	2153085	405266	136	340	2980	1.04(0.89-1.21)	
PCB-189L											
405.8428	49:36	49:37	-1	1.097	5405857	996635	1973	4932	505		
407.8398	49:36	49:37	-1	1.097	5096346	946628	2013	5032	470	1.06(0.89-1.21)	
PCB-188											
393.8025	37:07	37:08	-1	1.001	15894739	3132976	11	27	284816		
395.7995	37:07	37:08	-1	1.001	14991318	2987713	71	177	42080	1.06(0.89-1.21)	
PCB-179											
393.8025	37:28	37:28	0	1.010	16030052	3057679	11	27	277971		
395.7995	37:27	37:28	-1	1.010	15100598	2875089	71	177	40494	1.06(0.89-1.21)	
PCB-184											
393.8025	37:59	38:00	0	1.024	15965361	3088111	11	27	280737		
395.7995	37:59	38:00	0	1.024	15052933	2938274	71	177	41384	1.06(0.89-1.21)	
PCB-176											
393.8025	38:20	38:21	-1	1.033	13860308	2648177	11	27	240743		
395.7995	38:20	38:21	-1	1.033	13147325	2536184	71	177	35721	1.05(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	0	1.046	17015723	3231270	11	27	293752		
395.7995	38:48	38:48	0	1.046	16147959	3080332	71	177	43385	1.05(0.89-1.21)	
PCB-178											
393.8025	40:10	40:11	-1	1.083	10411544	2012862	11	27	182988		
395.7995	40:10	40:11	-1	1.083	9903298	1922922	71	177	27083	1.05(0.89-1.21)	
PCB-175											
393.8025	40:48	40:49	-1	1.100	10849325	2059997	11	27	187273		
395.7995	40:48	40:49	-1	1.100	10371089	1959556	71	177	27599	1.05(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	12824617	2477324	11	27	225211		
395.7995	41:05	41:05	0	1.107	12164702	2335192	71	177	32890	1.05(0.89-1.21)	
PCB-182											
393.8025	41:17	41:18	0	1.113	10977177	2063310	11	27	187574		
395.7995	41:17	41:18	0	1.113	10315673	1969940	71	177	27746	1.06(0.89-1.21)	
PCB-183											
393.8025	41:42	41:42	0	1.124	21620931	2252527	11	27	204775		Ma
395.7995	41:42	41:42	0	1.124	20232904	2088923	71	177	29421	1.07(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											Ma
393.8025	41:42	41:42	0	1.124	21620931	2252527	11	27	204775		M
395.7995	41:42	41:42	0	1.124	20232904	2088923	71	177	29421	1.07(0.89-1.21)	
PCB-174											
393.8025	41:56	41:56	0	1.130	11163861	2131369	11	27	193761		
395.7995	41:56	41:56	0	1.130	10619308	2010855	71	177	28322	1.05(0.89-1.21)	
PCB-177											
393.8025	42:22	42:22	0	1.142	11137128	1983115	11	27	180283		
395.7995	42:22	42:22	0	1.142	10573626	1894997	71	177	26690	1.05(0.89-1.21)	
PCB-181											
393.8025	42:45	42:45	0	1.152	10730603	2042497	11	27	185682		
395.7995	42:45	42:45	0	1.152	10274395	1968457	71	177	27725	1.04(0.89-1.21)	
PCB-171											
393.8025	42:58	42:59	0	1.158	20556308	3405250	11	27	309568		
395.7995	42:58	42:59	0	1.158	19364771	3182250	71	177	44820	1.06(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:58	42:59	0	1.158	20556308	3405250	11	27	309568		
395.7995	42:58	42:59	0	1.158	19364771	3182250	71	177	44820	1.06(0.89-1.21)	
PCB-172											
393.8025	44:37	44:37	0	0.899	9666253	1881153	11	27	171014		
395.7995	44:37	44:37	0	0.899	9183651	1768963	71	177	24915	1.05(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	0	0.905	15562900	2937197	11	27	267018		
395.7995	44:54	44:54	0	0.905	14728099	2739160	71	177	38580	1.06(0.89-1.21)	
PCB-180											
393.8025	45:14	45:14	0	0.912	26706443	3556777	11	27	323343		
395.7995	45:14	45:14	0	0.912	25256754	3372007	71	177	47493	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	26706443	3556777	11	27	323343		
395.7995	45:14	45:14	0	0.912	25256754	3372007	71	177	47493	1.06(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.920	14935038	2766774	11	27	251525		
395.7995	45:37	45:37	0	0.920	14214303	2633578	71	177	37093	1.05(0.89-1.21)	
PCB-170											
393.8025	46:31	46:32	0	0.938	10232586	1870309	11	27	170028		
395.7995	46:31	46:32	-1	0.938	9600499	1755081	71	177	24719	1.07(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	15017752	2773774	11	27	252161		
395.7995	47:02	47:02	0	0.948	14045959	2624209	71	177	36961	1.07(0.89-1.21)	
PCB-189											
393.8025	49:38	49:38	0	1.001	20534056	3848208	1643	4107	2342		
395.7995	49:38	49:38	0	1.001	19487566	3634362	1107	2767	3283	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:28	42:28	0	0.821	2418394	446788	30	75	14893		
441.8008	42:28	42:28	1	0.821	2661064	508757	32	80	15899	0.91(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:43	51:43	0		3485452	632444	278	695	2275		
441.8008	51:43	51:43	0		3837808	688713	164	410	4199	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:11	52:11	0	1.009	4129550	754744	278	695	2715		
441.8008	52:11	52:11	0	1.009	4509068	812981	164	410	4957	0.92(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	10202791	1921272	47	117	40878		
429.7606	42:29	42:29	0	1.001	11344428	2160861	58	145	37256	0.90(0.76-1.02)	
PCB-201											
427.7635	43:24	43:25	0	1.022	9429617	1790526	47	117	38096		
429.7606	43:24	43:25	0	1.022	10361999	1935083	58	145	33364	0.91(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	9940326	1884926	47	117	40105		
429.7606	44:05	44:05	0	1.038	11000167	2083443	58	145	35921	0.90(0.76-1.02)	
PCB-197											
427.7635	44:19	44:19	0	1.044	10467948	1945914	47	117	41402		
429.7606	44:19	44:19	0	1.044	11627449	2198335	58	145	37902	0.90(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	9646190	1851944	47	117	39403		
429.7606	44:25	44:25	0	1.046	10517431	2027054	58	145	34949	0.92(0.76-1.02)	
PCB-198											
427.7635	47:12	47:12	0	1.112	16331274	2078516	47	117	44224		
429.7606	47:12	47:12	0	1.112	18134978	2282982	58	145	39362	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.112	16331274	2078516	47	117	44224		
429.7606	47:12	47:12	0	1.112	18134978	2282982	58	145	39362	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.917	7330695	1374396	47	117	29242		
429.7606	47:53	47:53	0	0.917	8062724	1508186	58	145	26003	0.91(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	0	0.921	8974073	1665288	47	117	35432		
429.7606	48:05	48:05	0	0.921	9807796	1823811	58	145	31445	0.91(0.76-1.02)	
PCB-195											
427.7635	49:24	49:23	1	0.947	13278629	2435810	1197	2992	2035		
429.7606	49:24	49:23	1	0.947	14836338	2712844	10107	25267	268	0.90(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.991	15278609	2814671	1197	2992	2351		
429.7606	51:44	51:44	0	0.991	17094843	3126885	10107	25267	309	0.89(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	0	1.000	17359047	3148703	1197	2992	2630		
429.7606	52:13	52:13	0	1.000	19165222	3522416	10107	25267	349	0.91(0.76-1.02)	
PCB-208L											
473.7648	49:08	49:09	0	0.950	3160520	579728	635	1587	913		
475.7619	49:08	49:09	0	0.950	3975284	728325	550	1375	1324	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-206L											
473.7648	53:56	53:57	0	1.043	2295828	414632	635	1587	653		
475.7619	53:56	53:57	0	1.043	2791452	515362	550	1375	937	0.82(0.65-0.89)	
PCB-208											
461.7246	49:10	49:10	0	1.001	13762182	2600944	1799	4497	1446		
463.7216	49:10	49:10	0	1.001	17538204	3273965	1382	3455	2369	0.78(0.65-0.89)	
PCB-207											
461.7246	50:05	50:05	0	1.019	13947336	2590680	1799	4497	1440		
463.7216	50:05	50:05	0	1.019	17708941	3285222	1382	3455	2377	0.79(0.65-0.89)	
PCB-206											
461.7246	53:58	53:58	0	1.000	11132917	2038968	1799	4497	1133		
463.7216	53:58	53:58	0	1.000	14086057	2581506	1382	3455	1868	0.79(0.65-0.89)	
PCB-209L											
507.7258	55:35	55:34	1	1.075	2023837	339841	158	395	2151		
509.7229	55:34	55:34	0	1.075	2843727	486553	71	177	6853	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:36	55:36	0	1.000	8716853	1501897	46	115	32650		
497.6826	55:36	55:36	0	1.000	12192846	2098977	15	37	139932	0.71(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L41668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

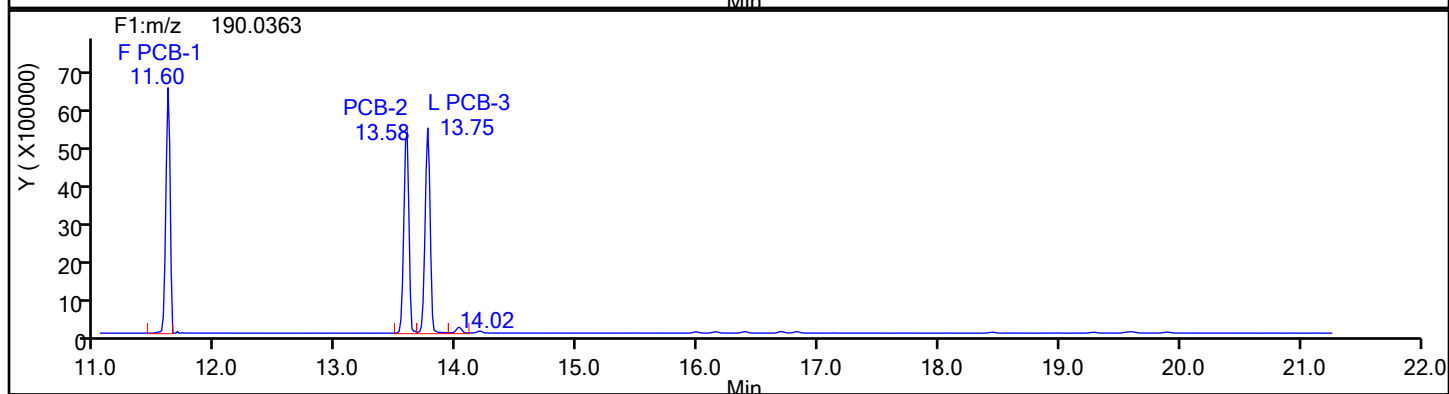
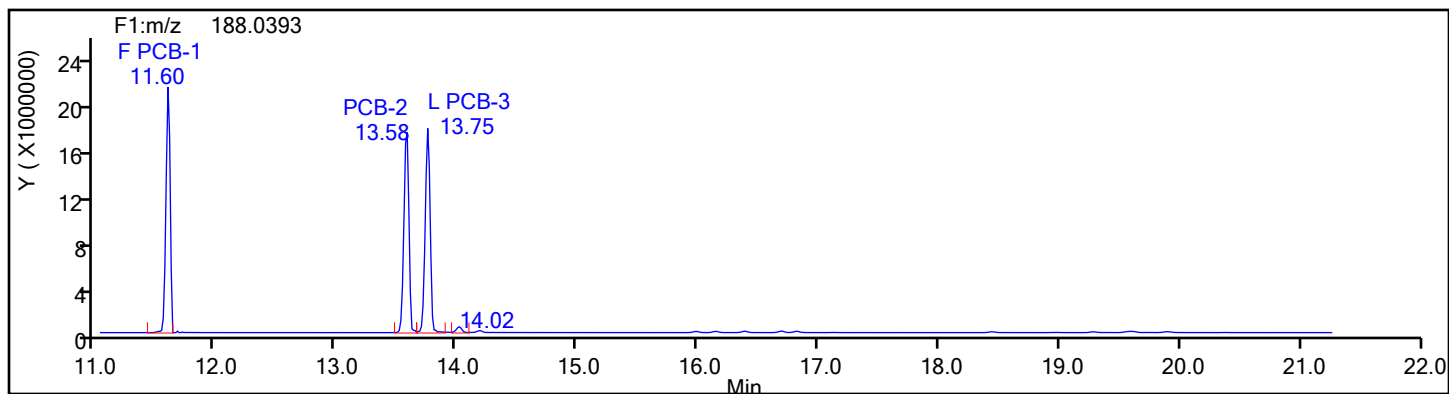
Worklist#: 87130

Sample Line#: 5

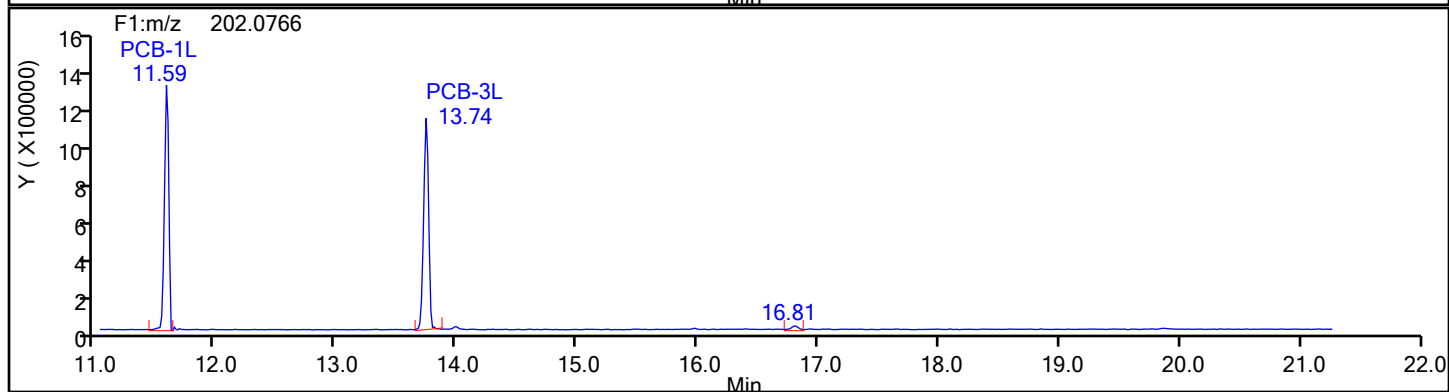
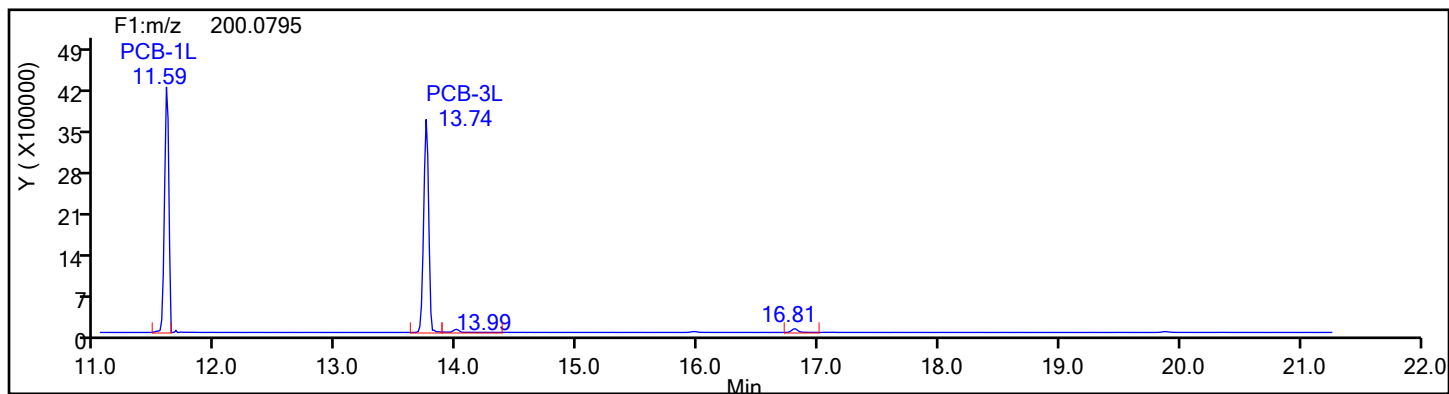
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

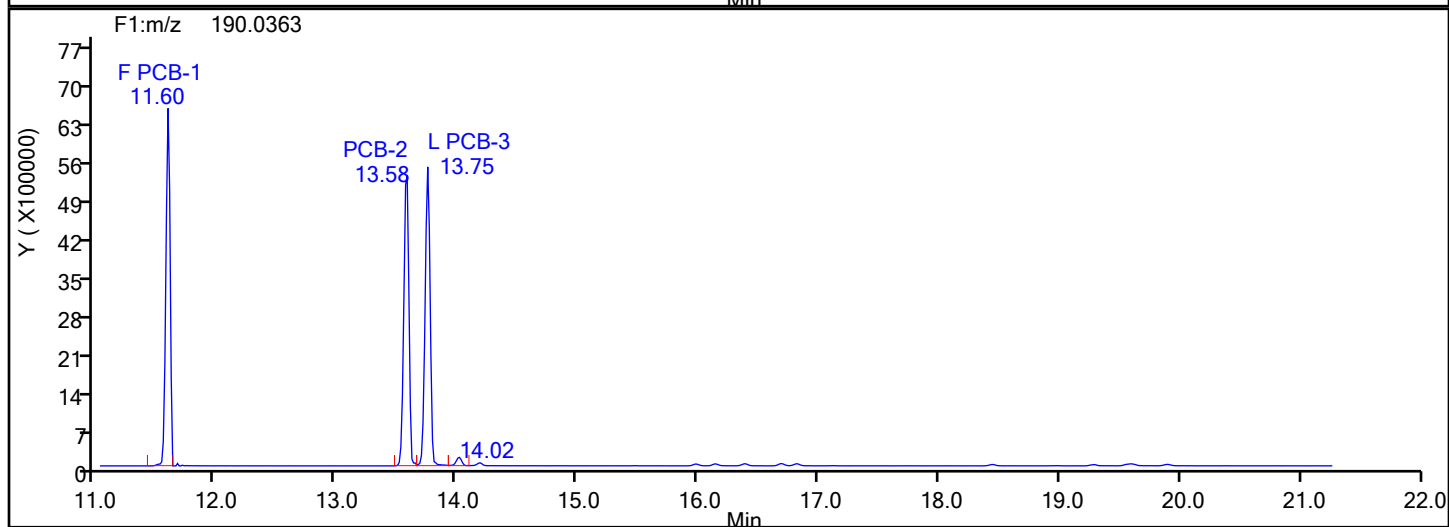
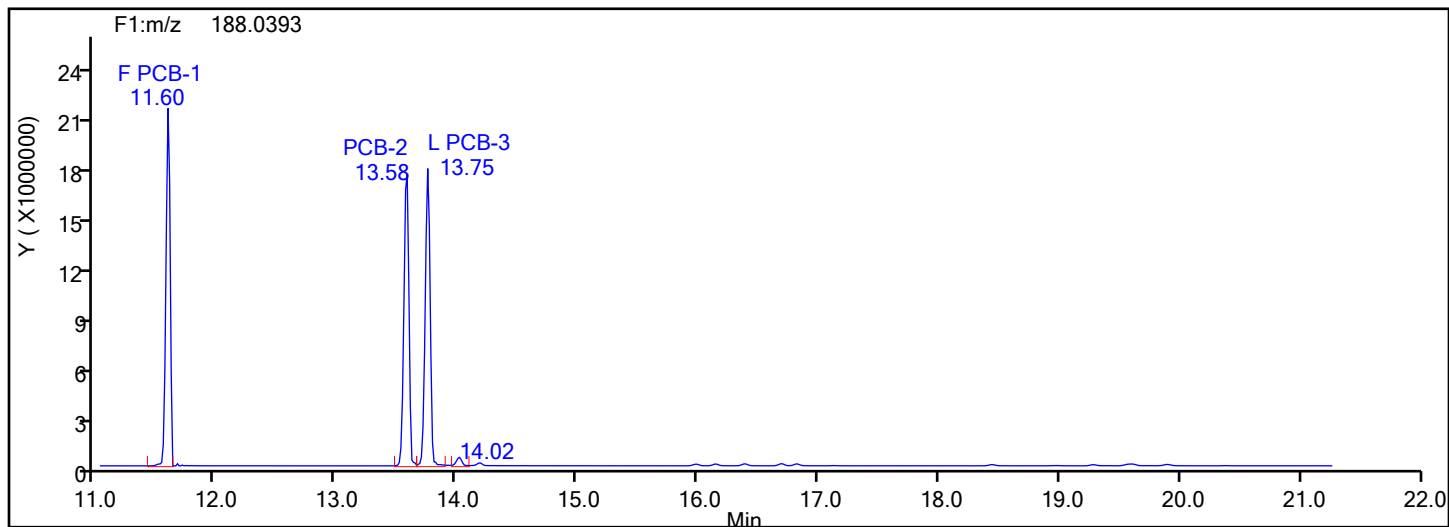
Worklist#: 87130

Sample Line#: 5

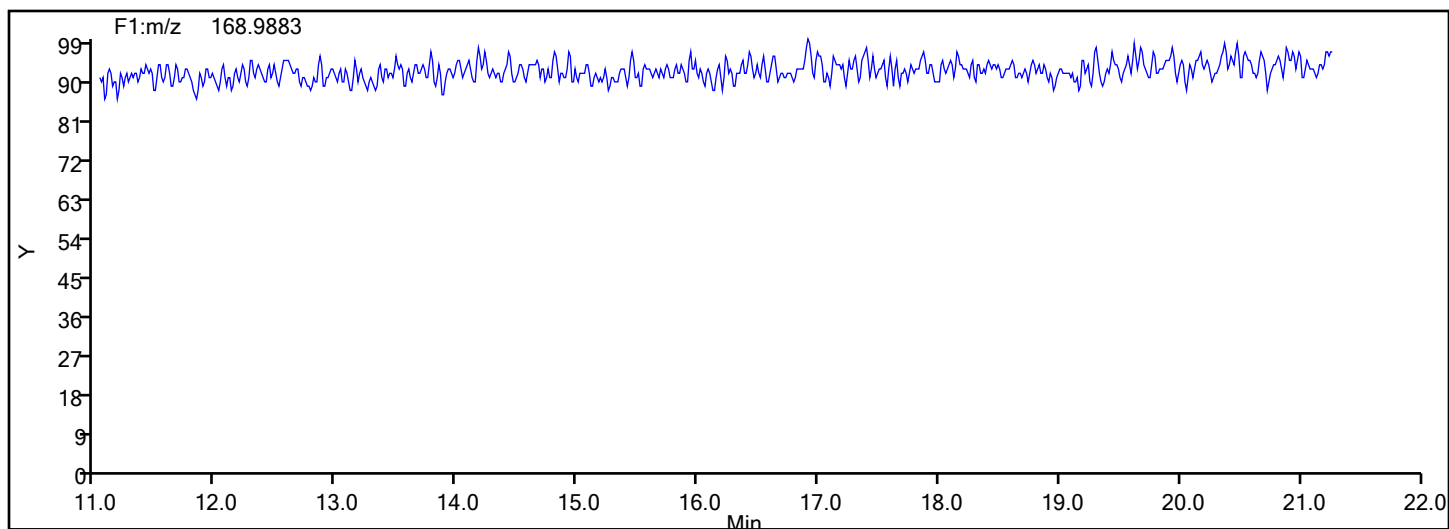
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

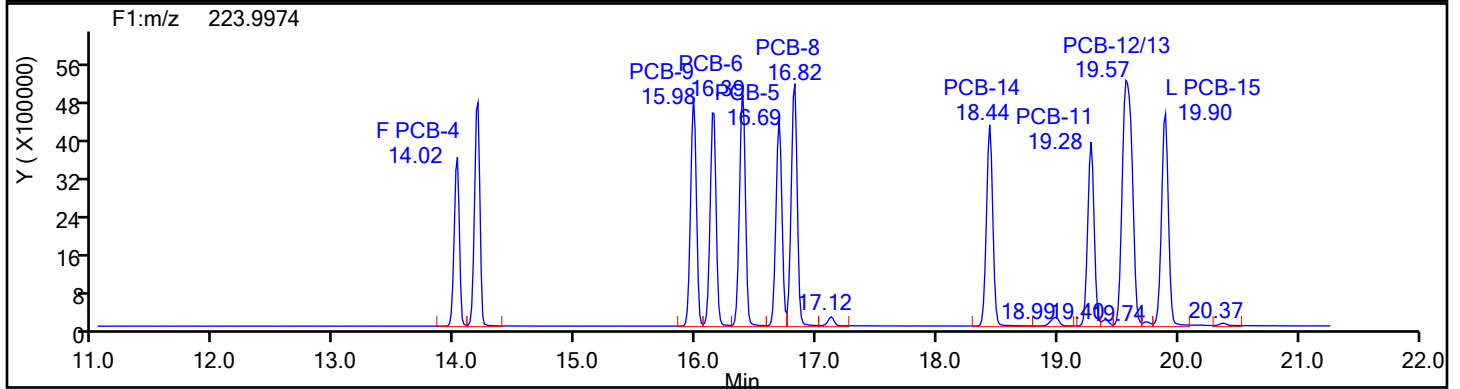
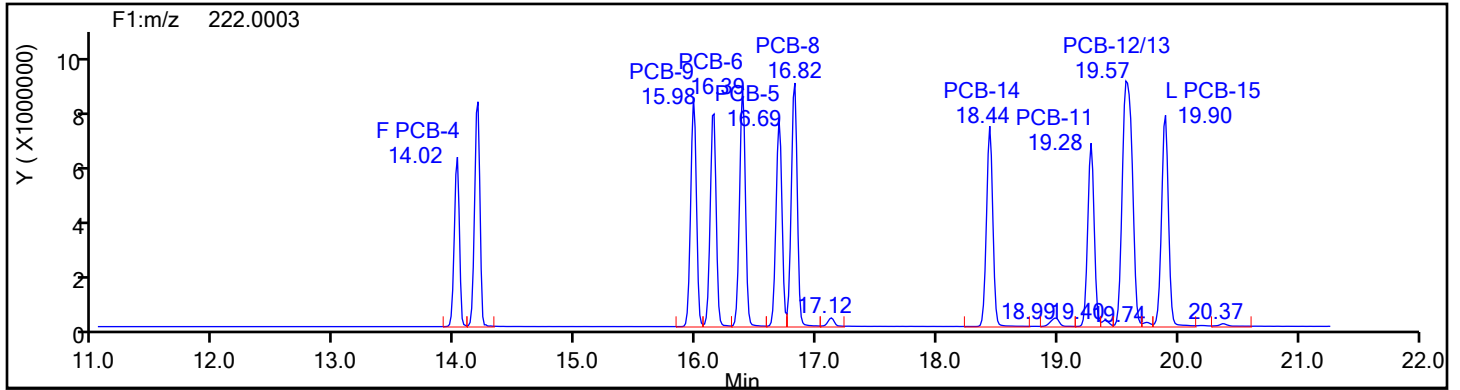
Worklist#: 87130

Sample Line#: 5

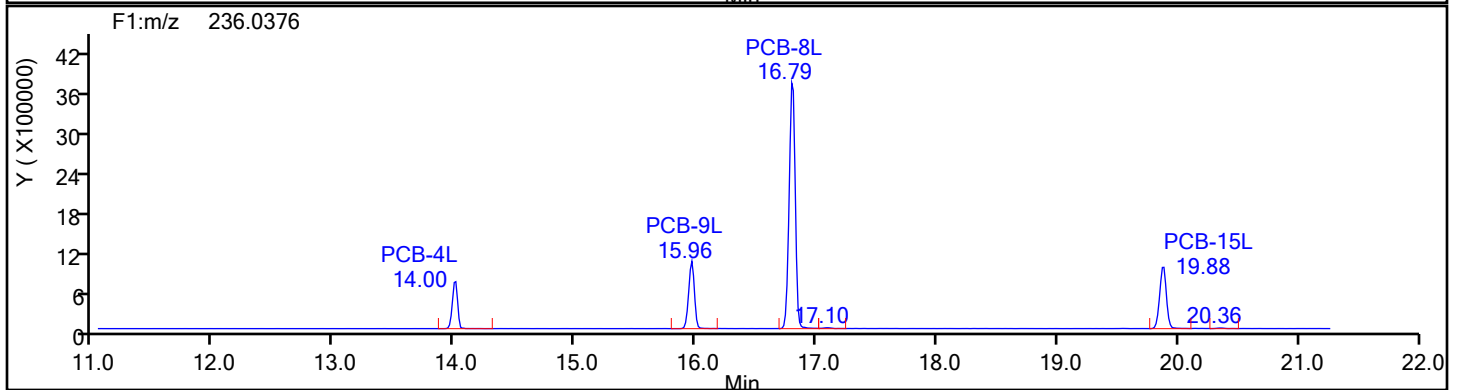
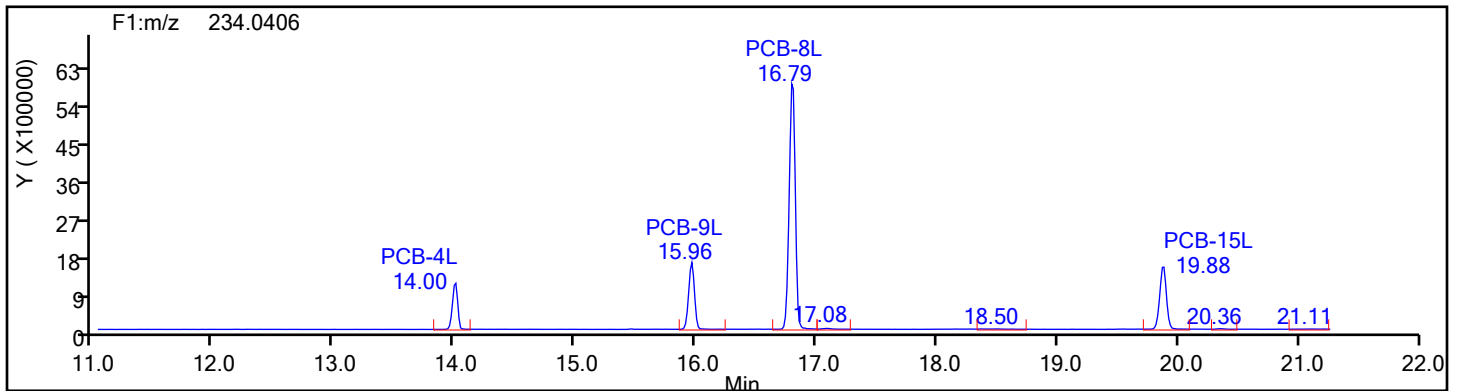
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

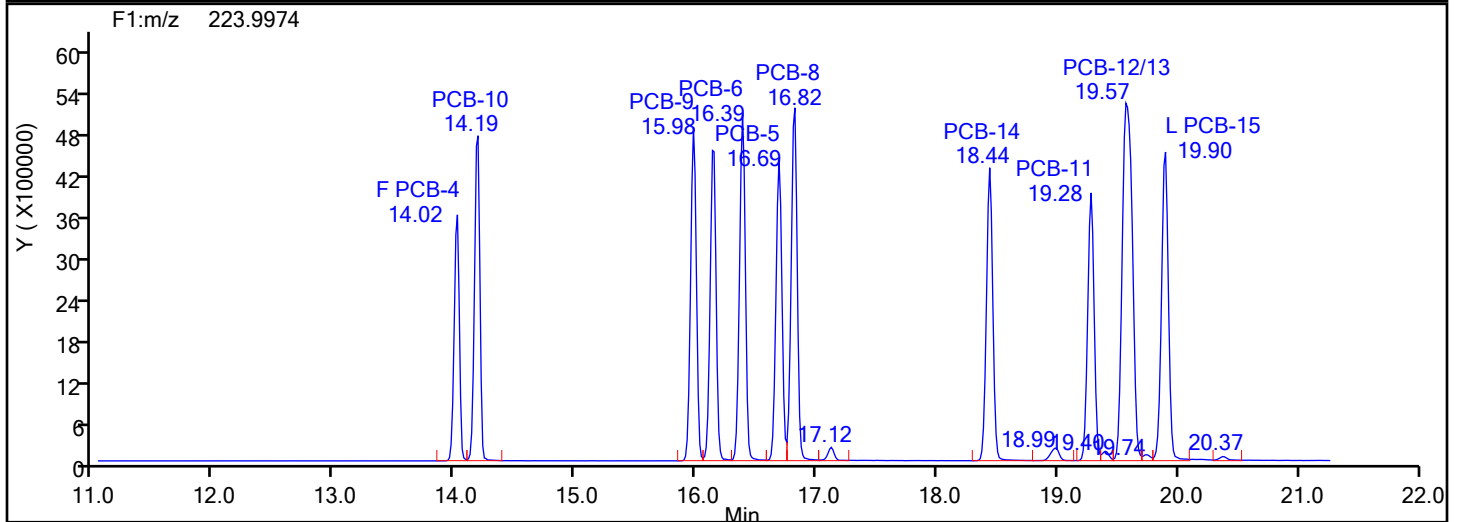
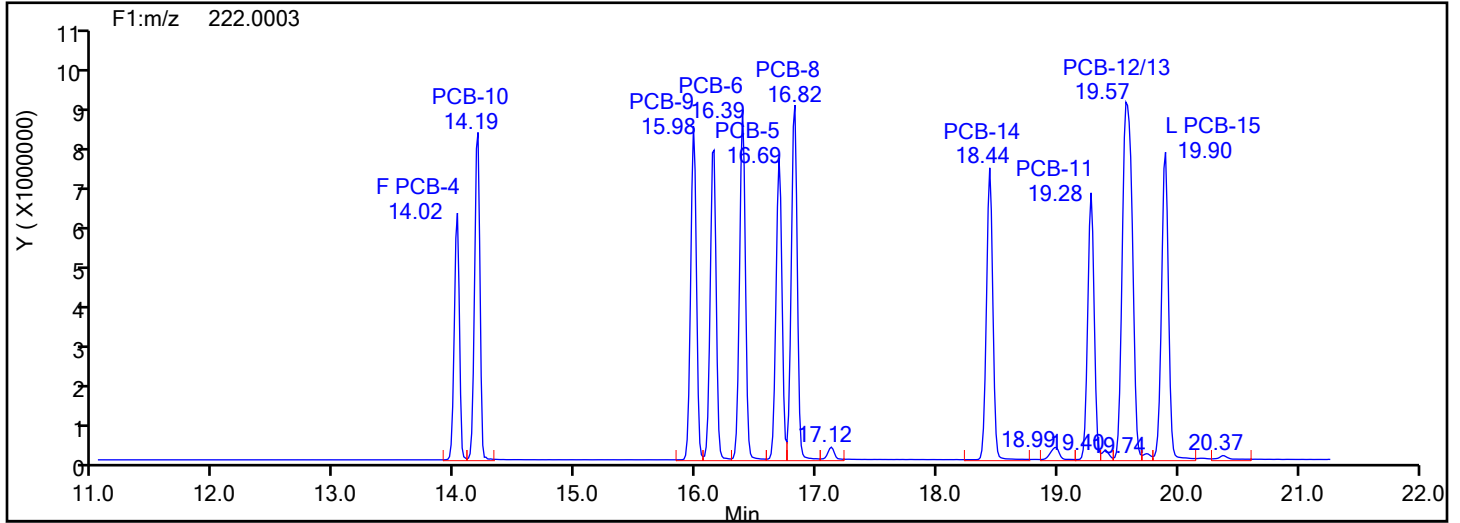
Worklist#: 87130

Sample Line#: 5

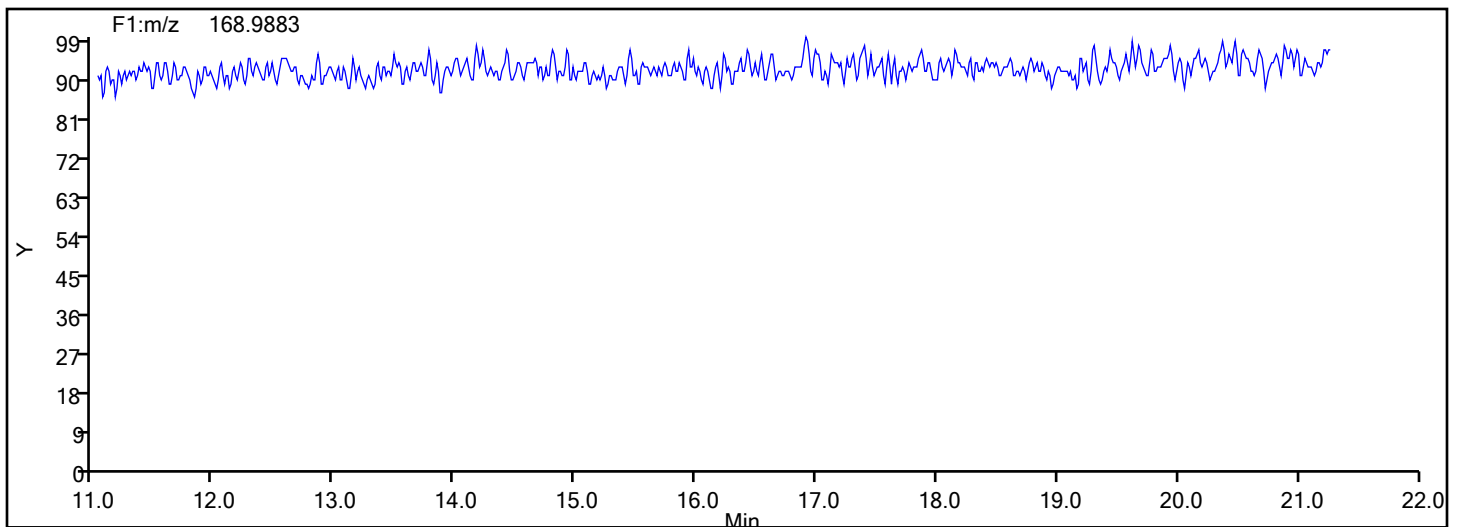
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

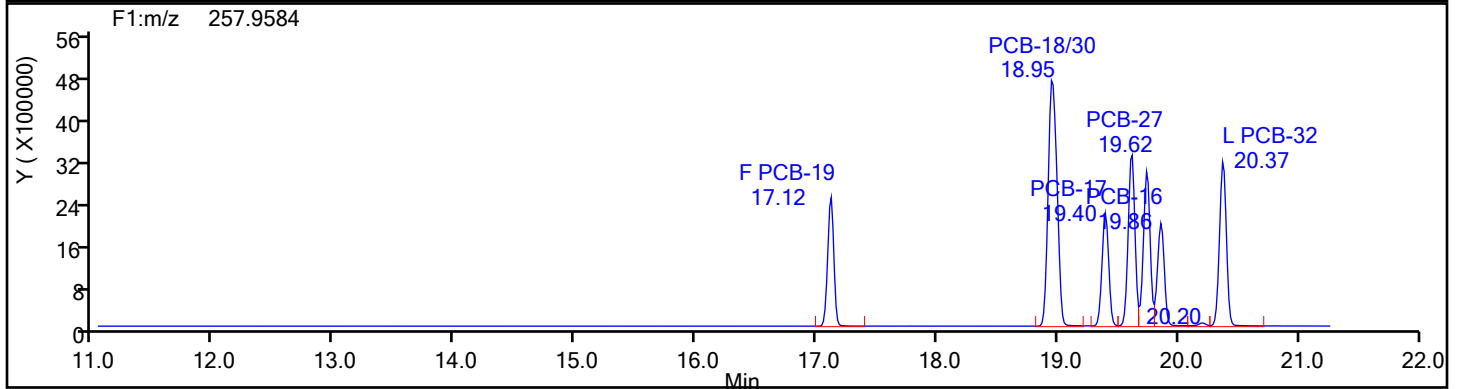
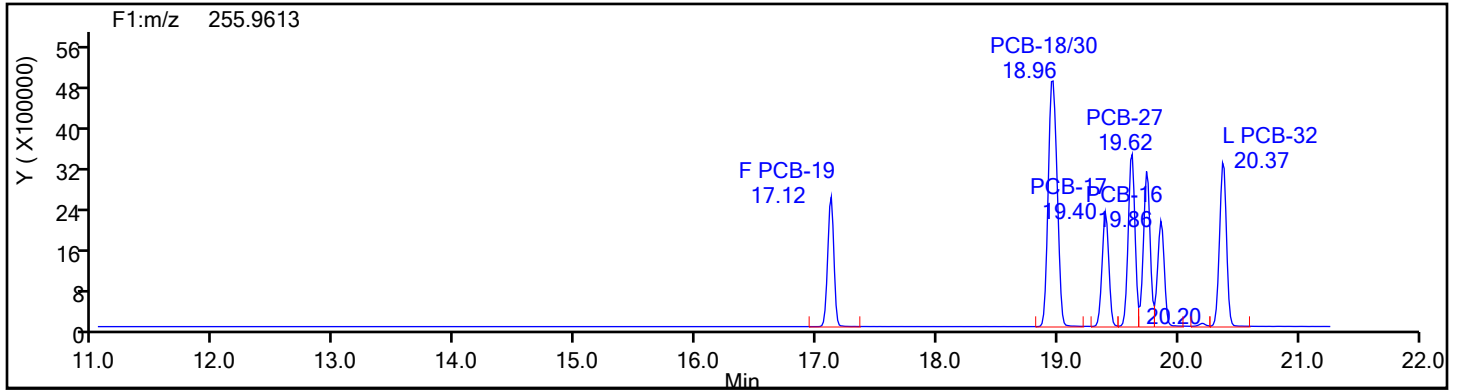
Worklist#: 87130

Sample Line#: 5

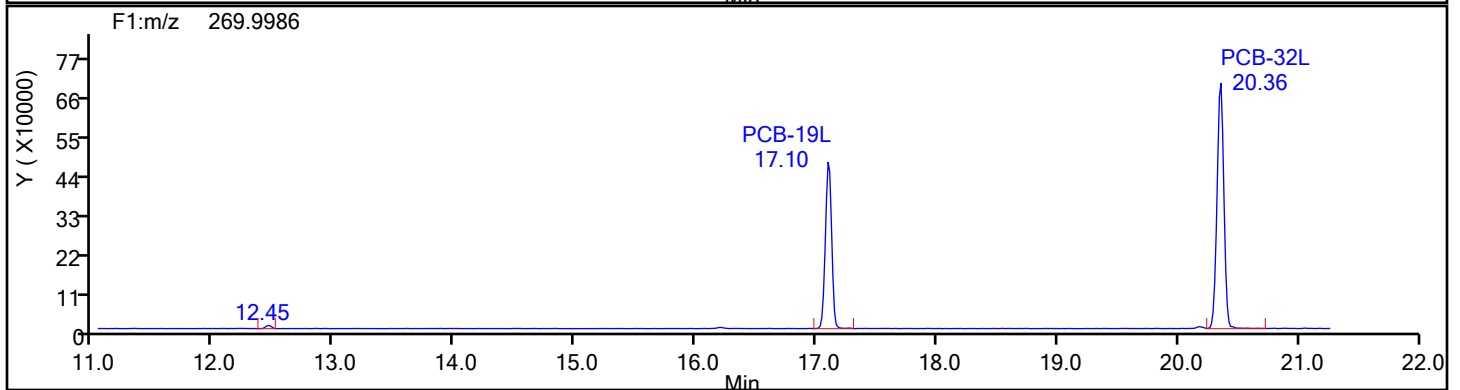
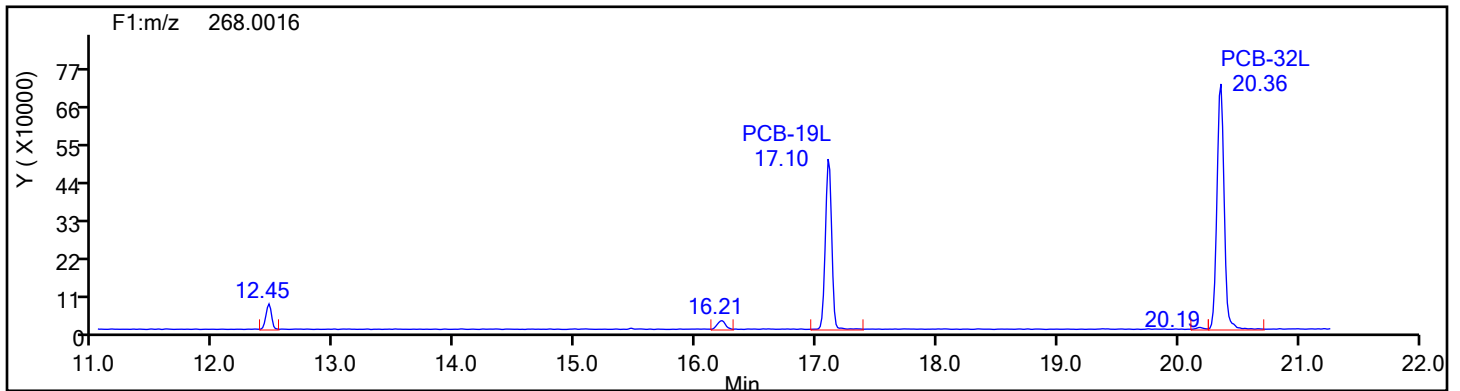
Column Type: SPB-Octyl

Column Dia: 0.25 mm

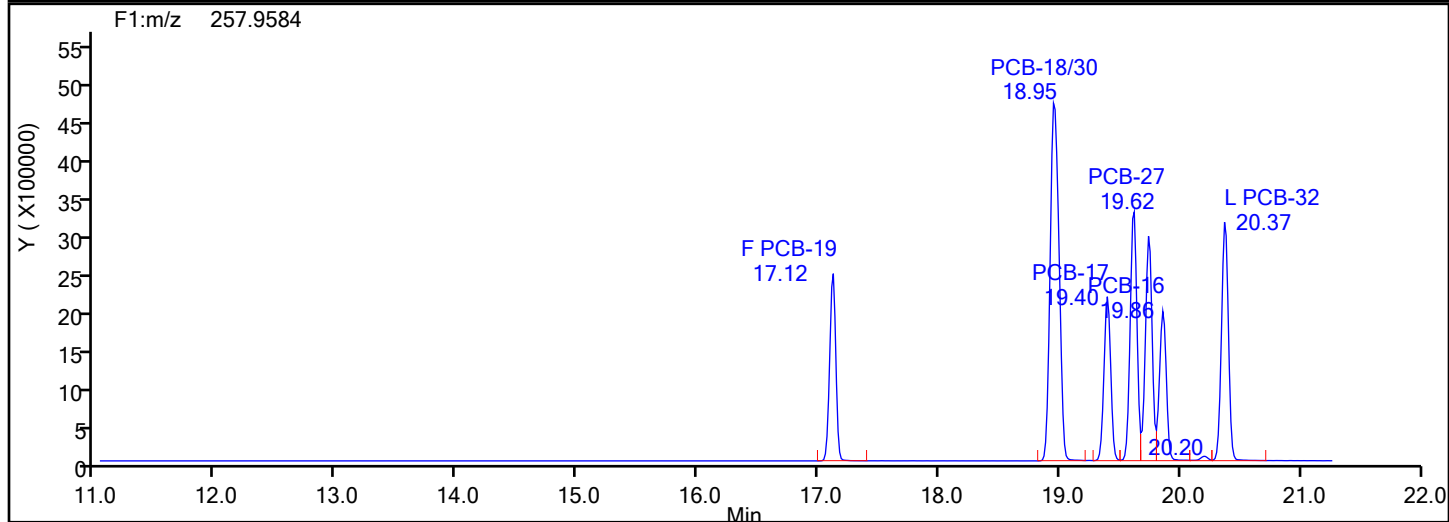
TriPCB F1



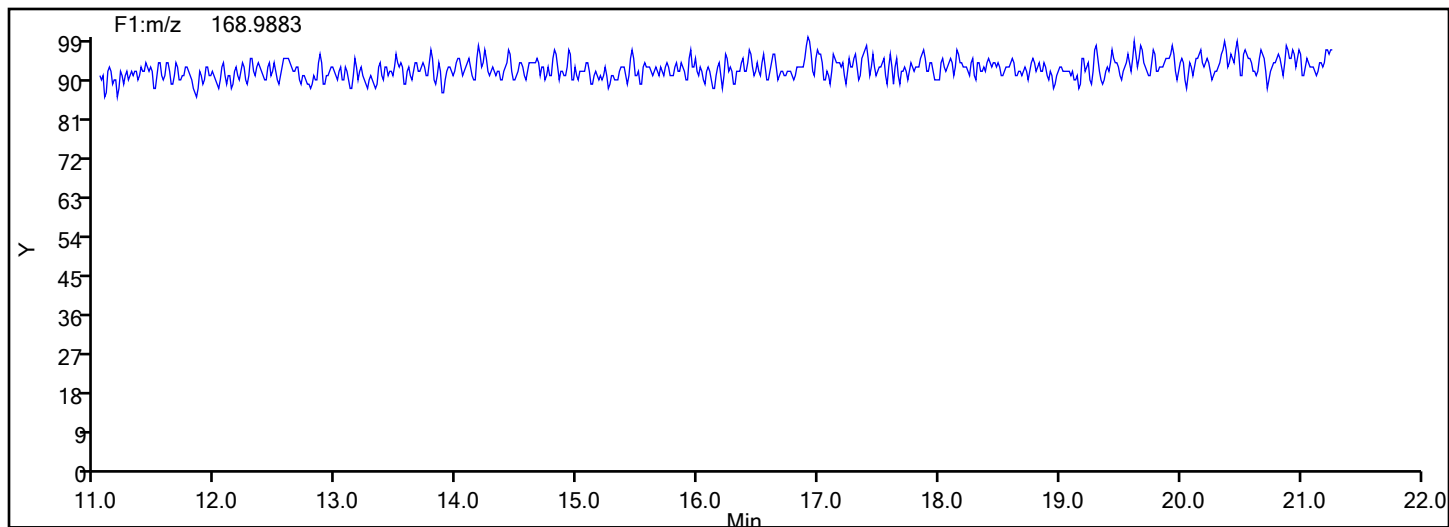
TriPCB F1 Standards



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d		
Injection Date:	31-May-2024 20:12:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	87130	Sample Line#:	5
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TriPCB F1			

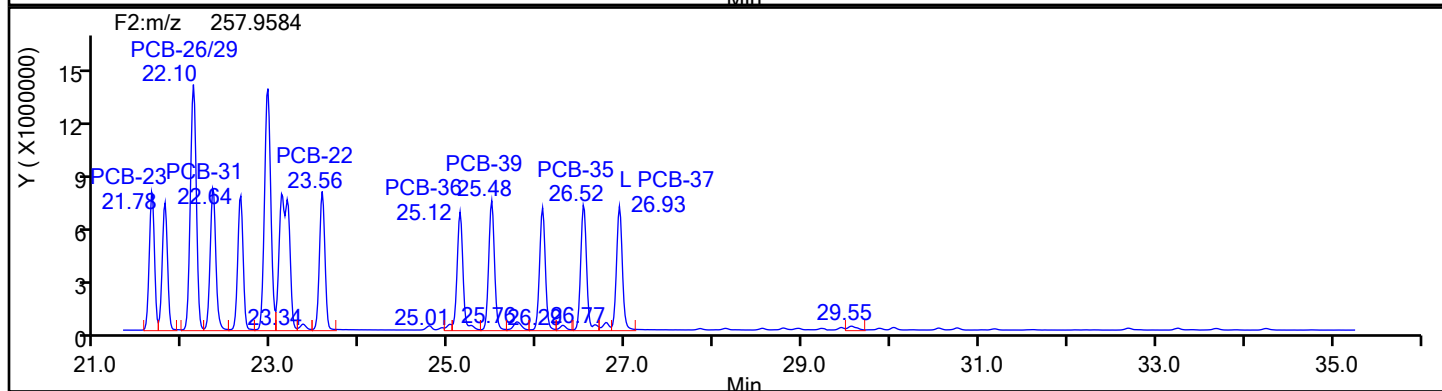


TriPCB F1 Lock Mass

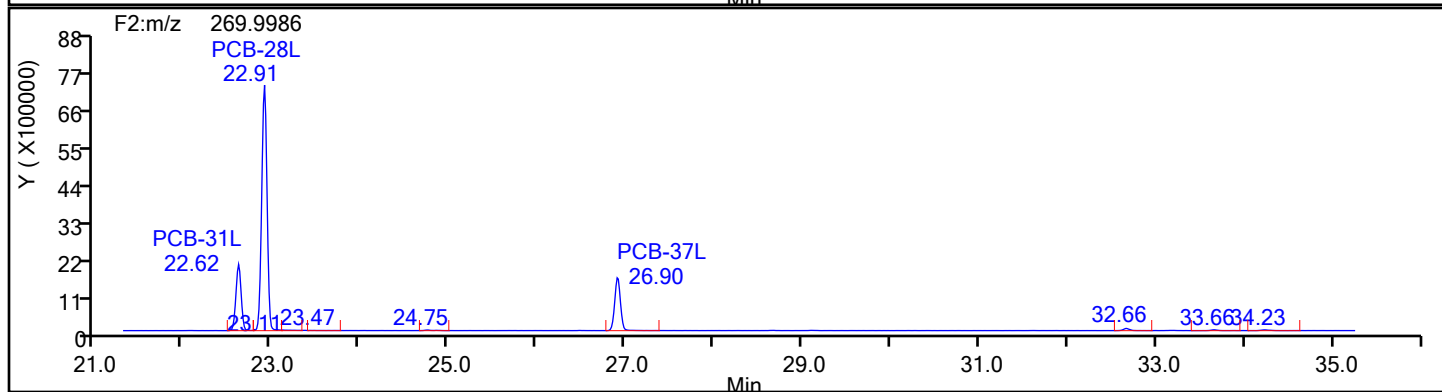
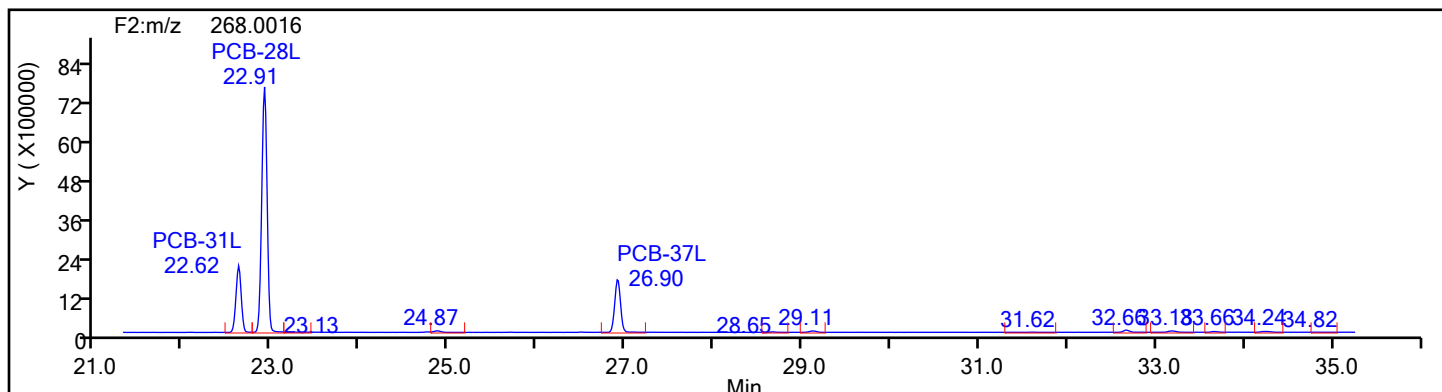


Column Dia: 0.25 mm

Column Dia: 0.25 mm



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

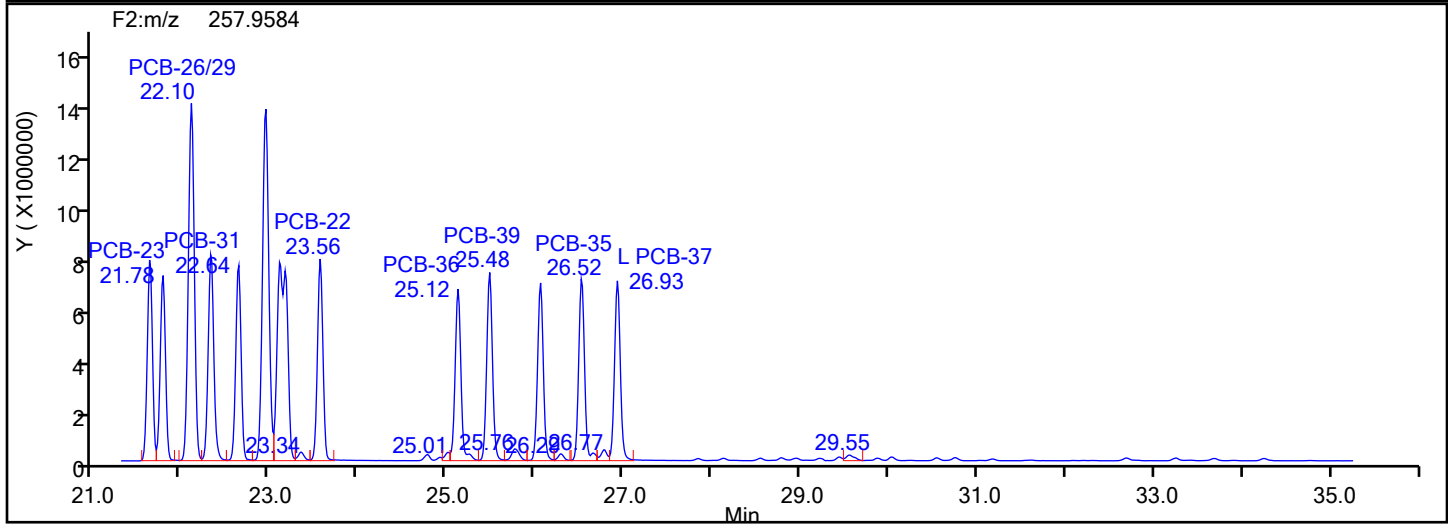
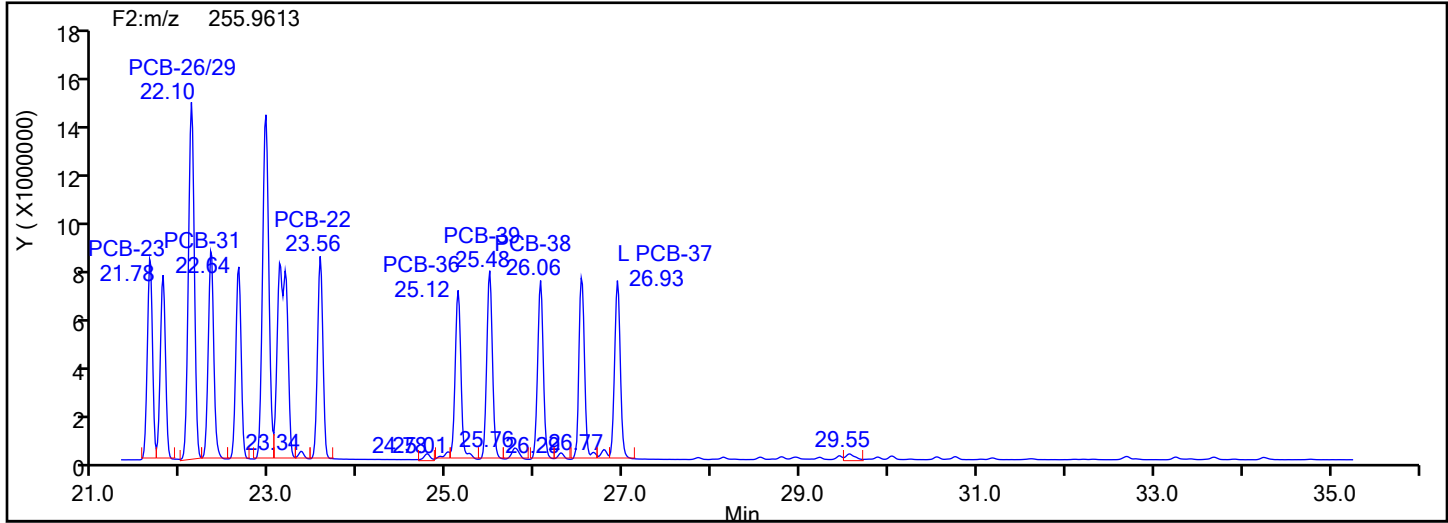
Worklist#: 87130

Sample Line#: 5

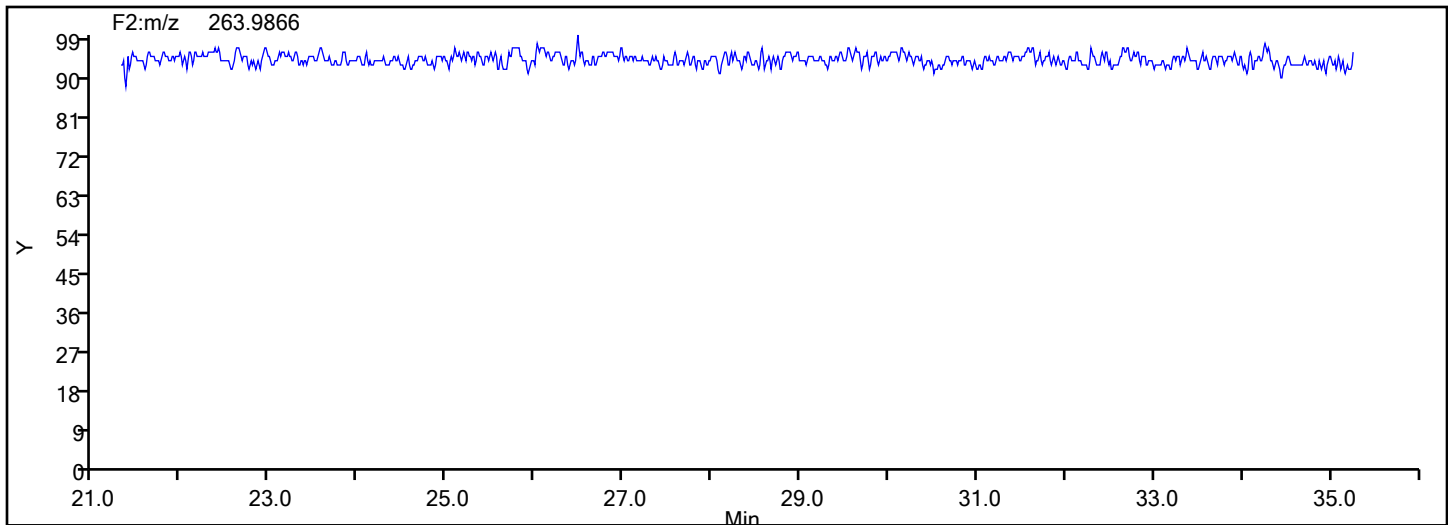
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

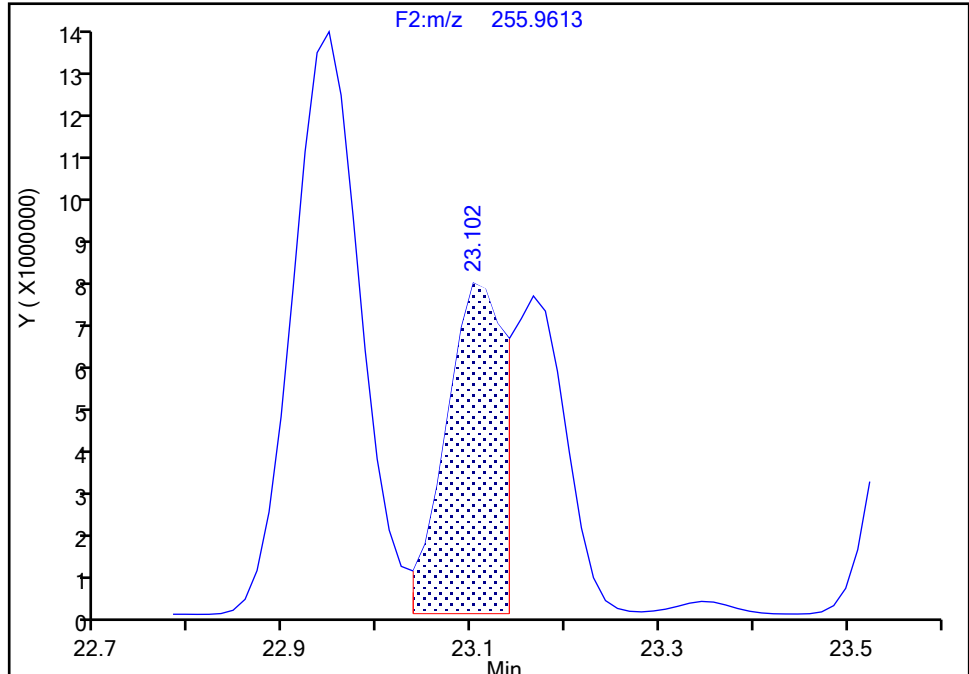
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

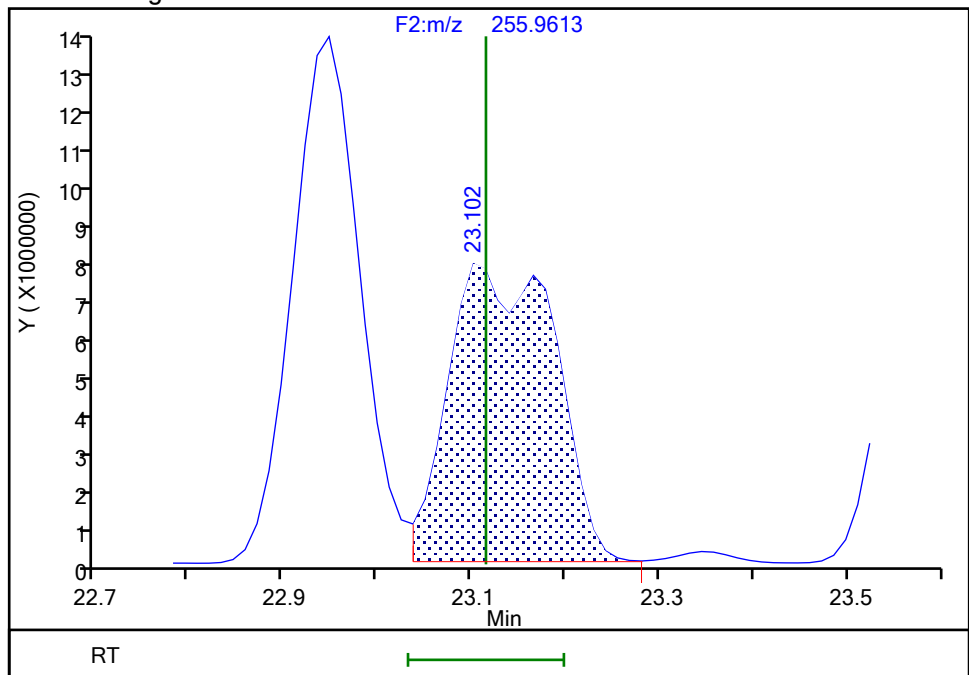
RT: 23.10
Area: 32747425
Amount: 487.1424
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 61897185
Amount: 769.2411
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

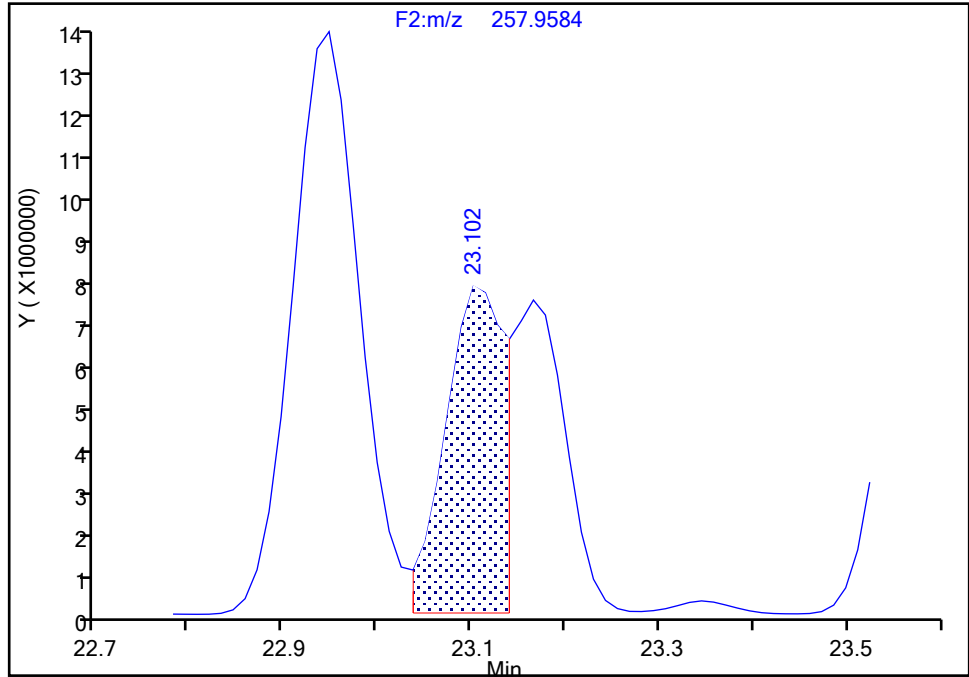
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

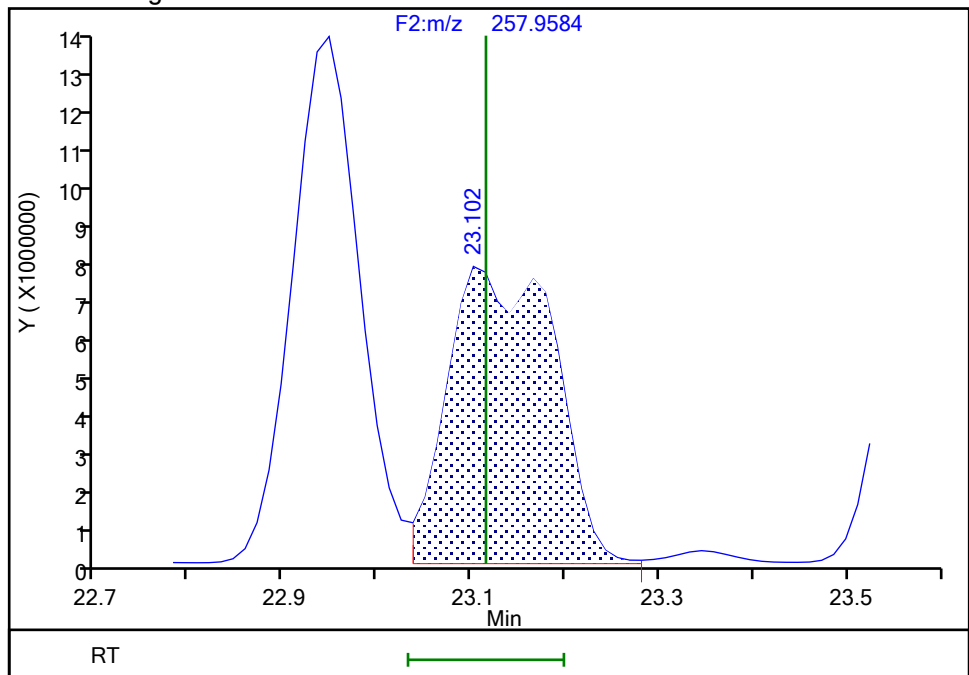
RT: 23.10
Area: 31717636
Amount: 487.1424
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 59869797
Amount: 769.2411
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2069 of 3076

9/6/2024 2:43:26 PM
BASFHWC-G01521

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

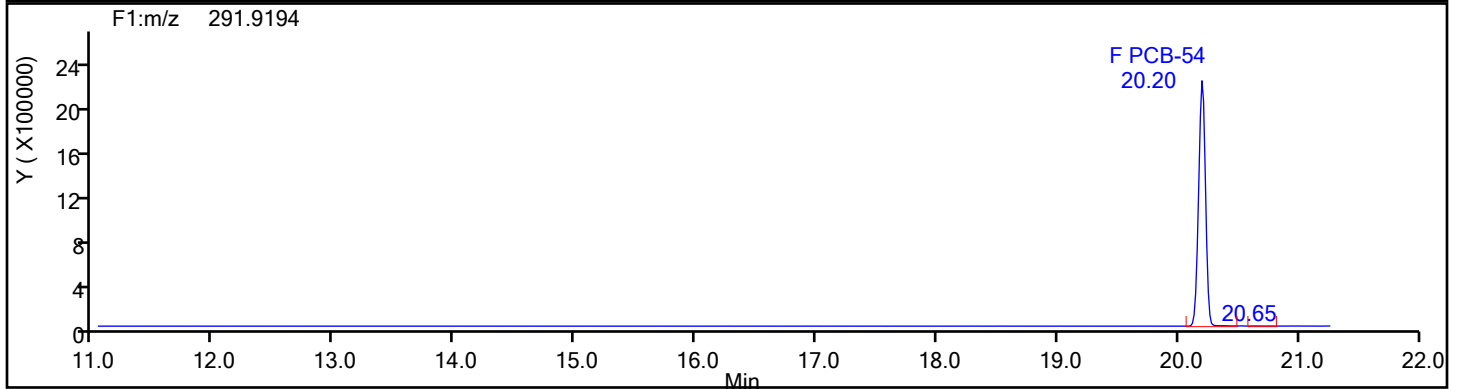
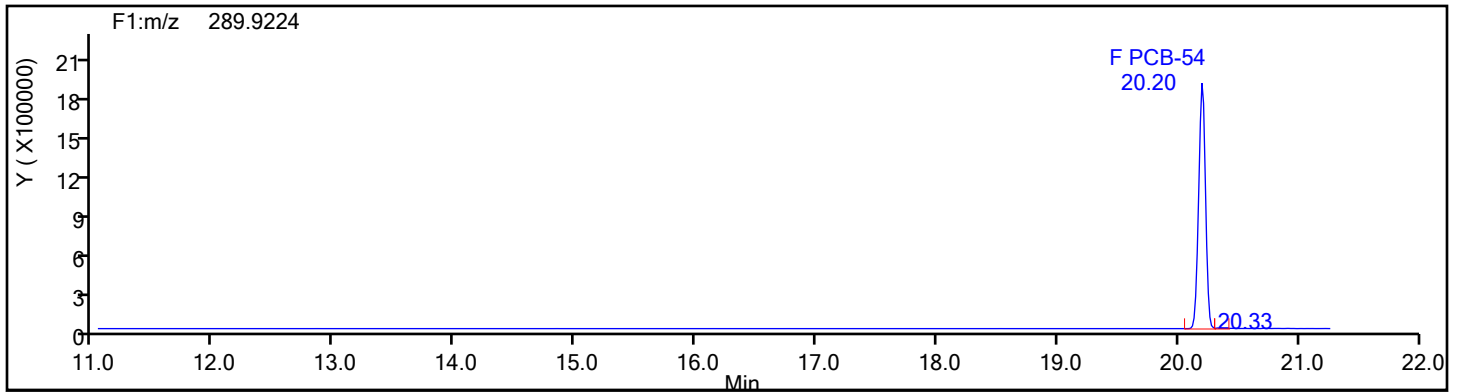
Worklist#: 87130

Sample Line#: 5

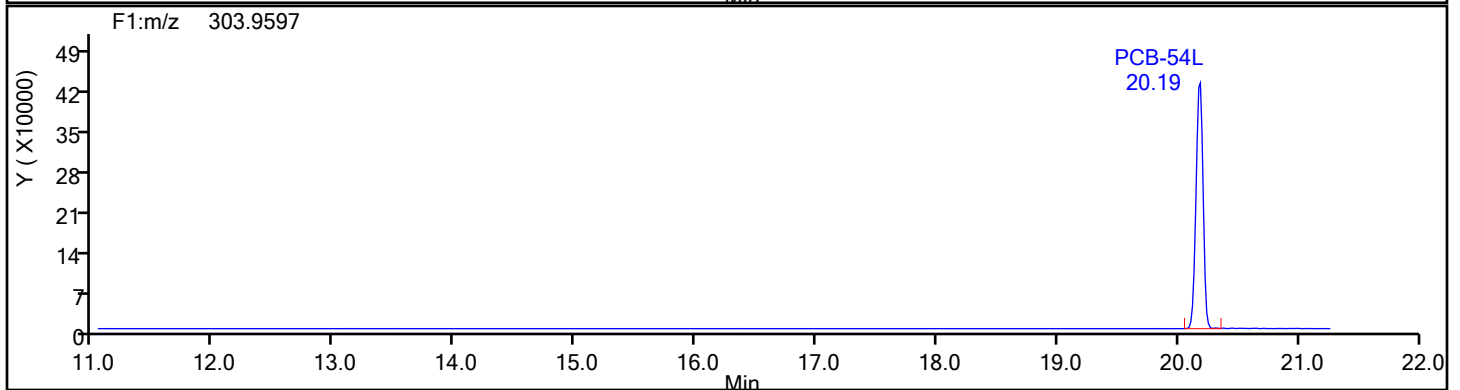
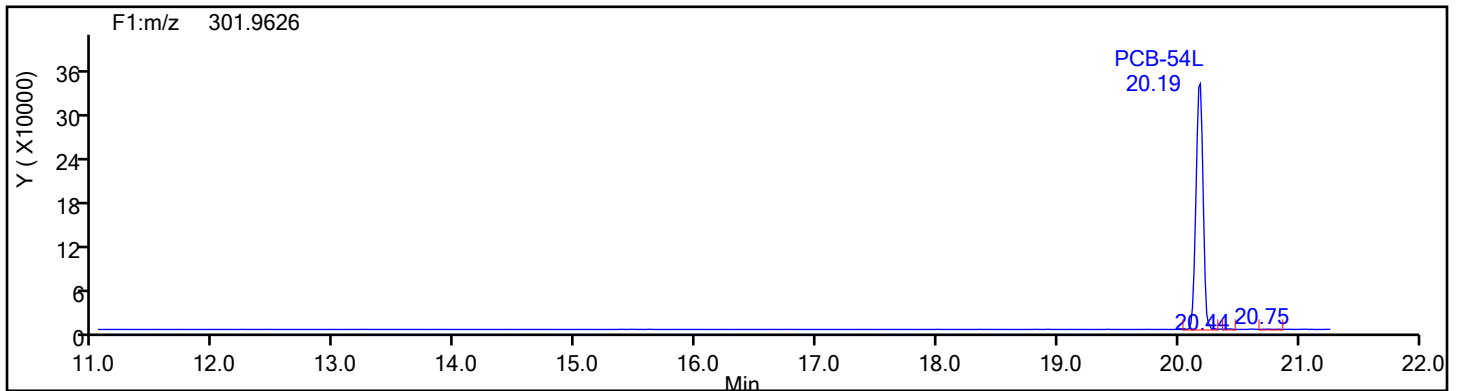
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

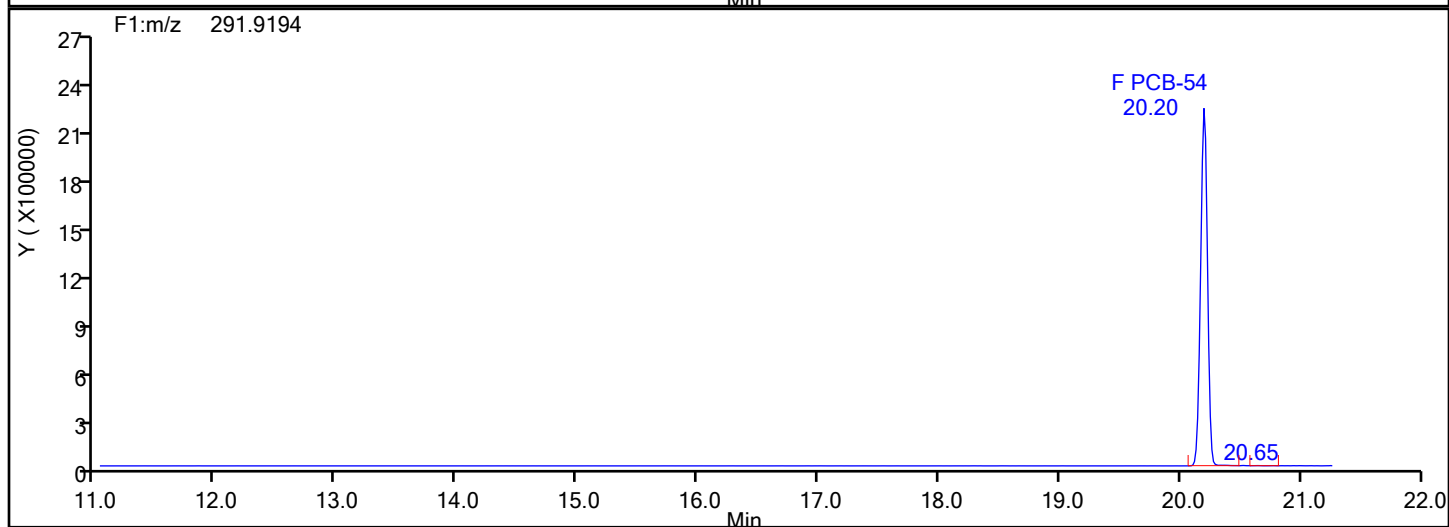
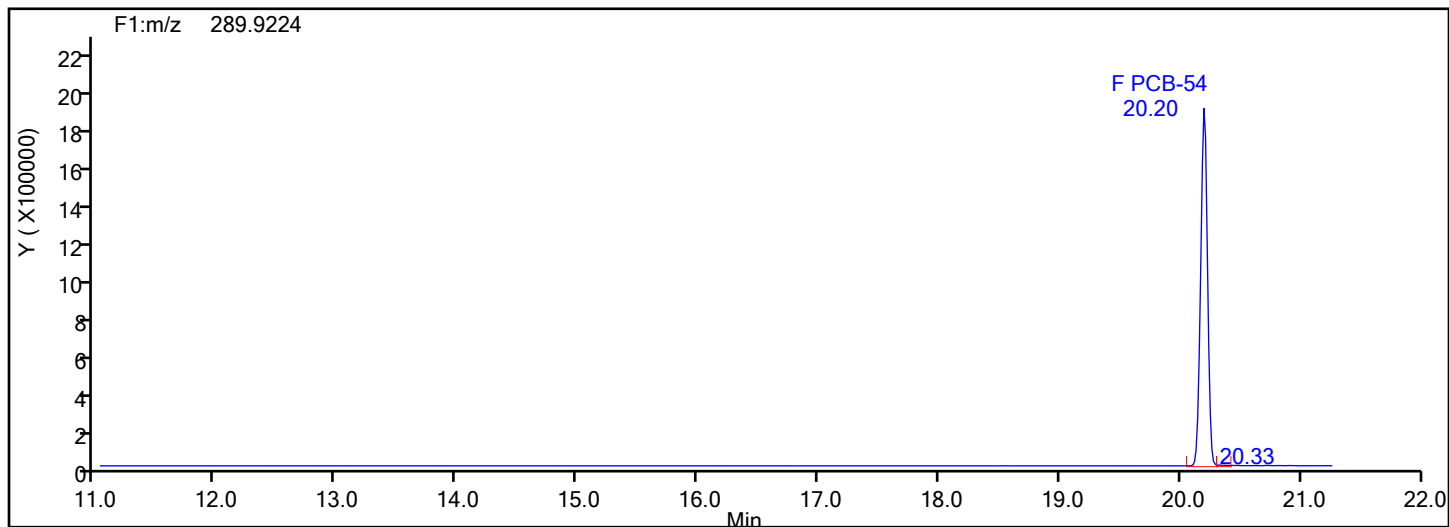
Worklist#: 87130

Sample Line#: 5

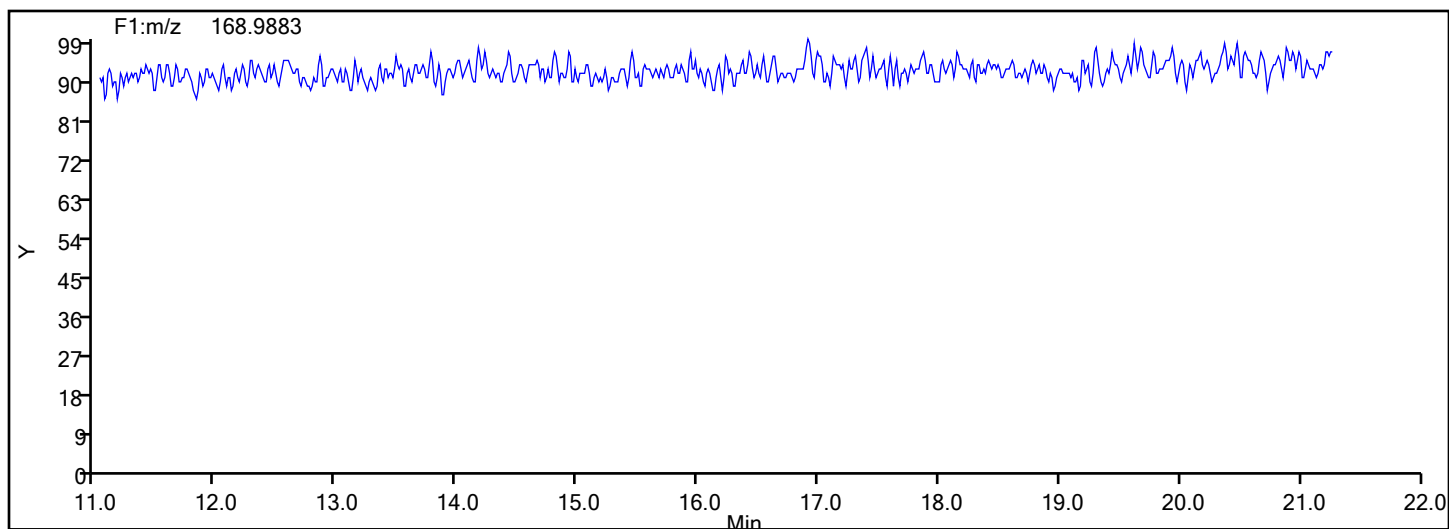
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

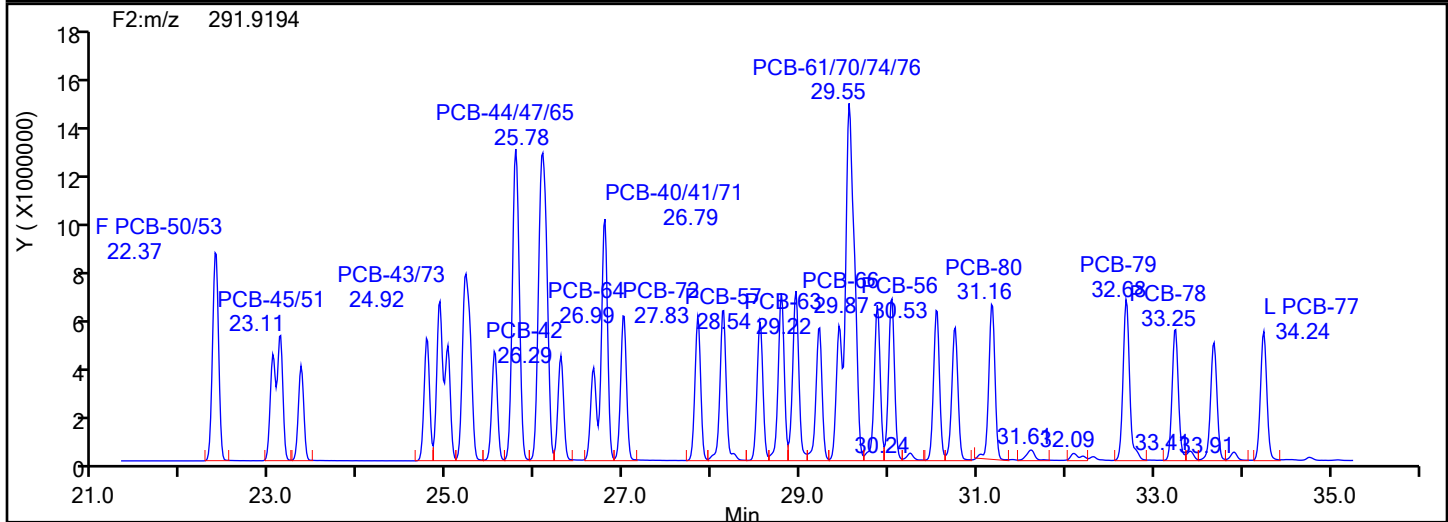
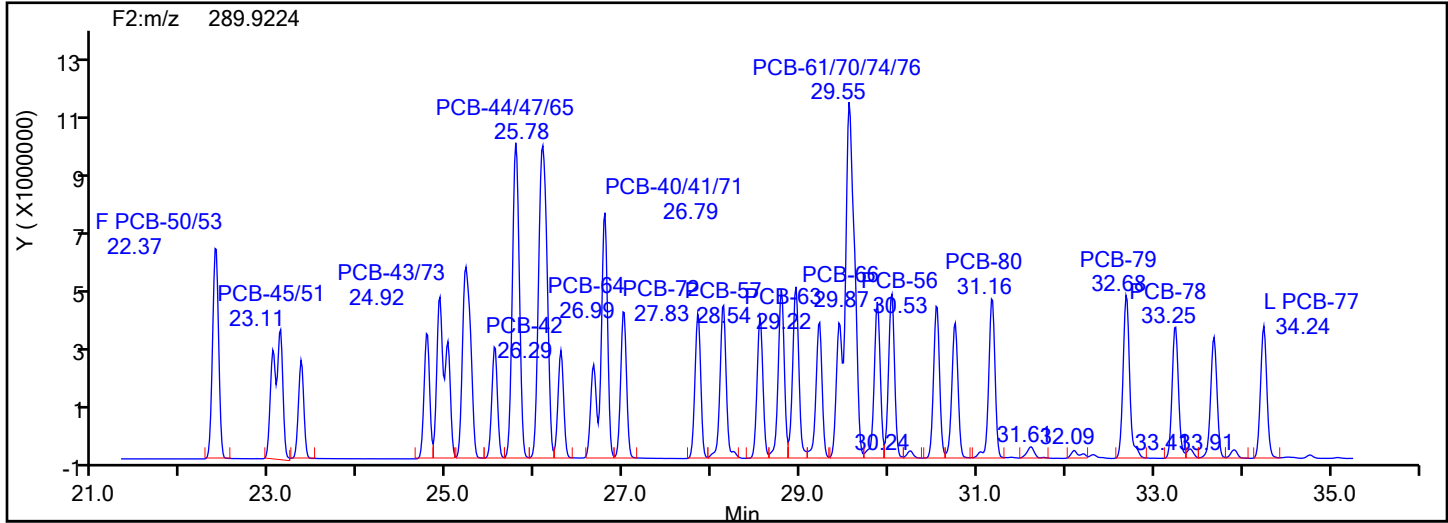
Worklist#: 87130

Sample Line#: 5

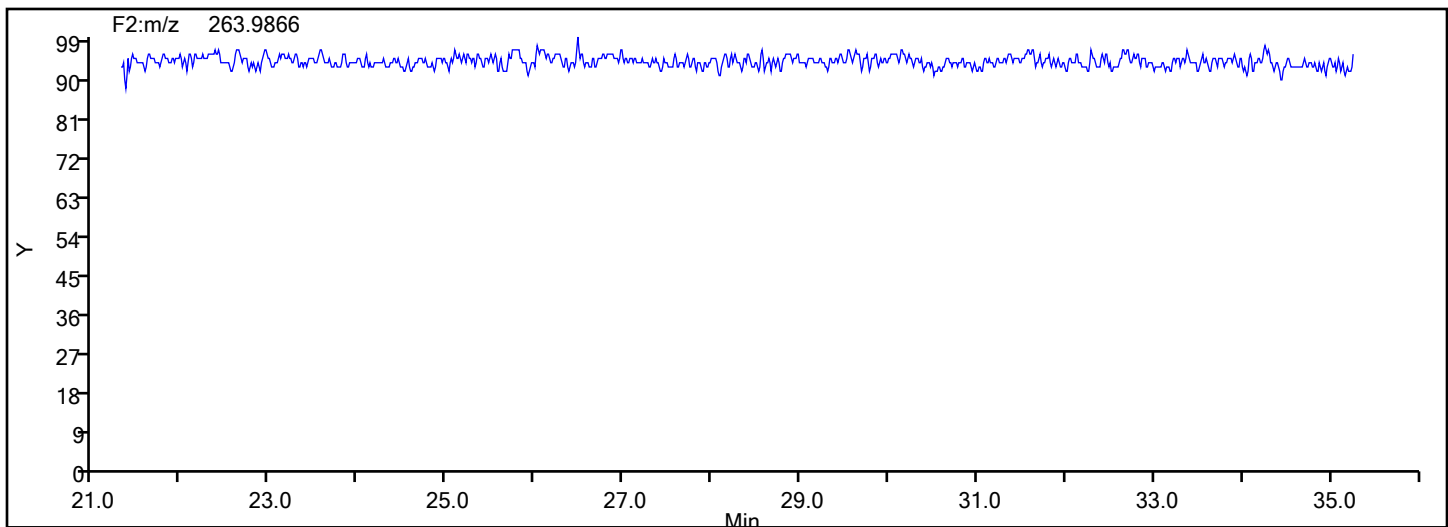
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

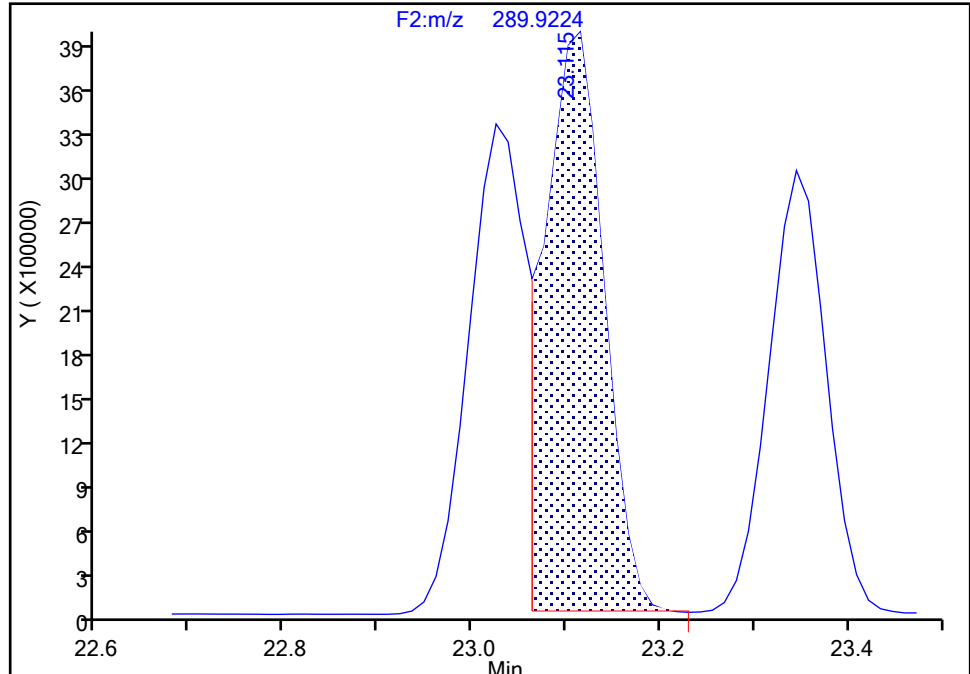
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

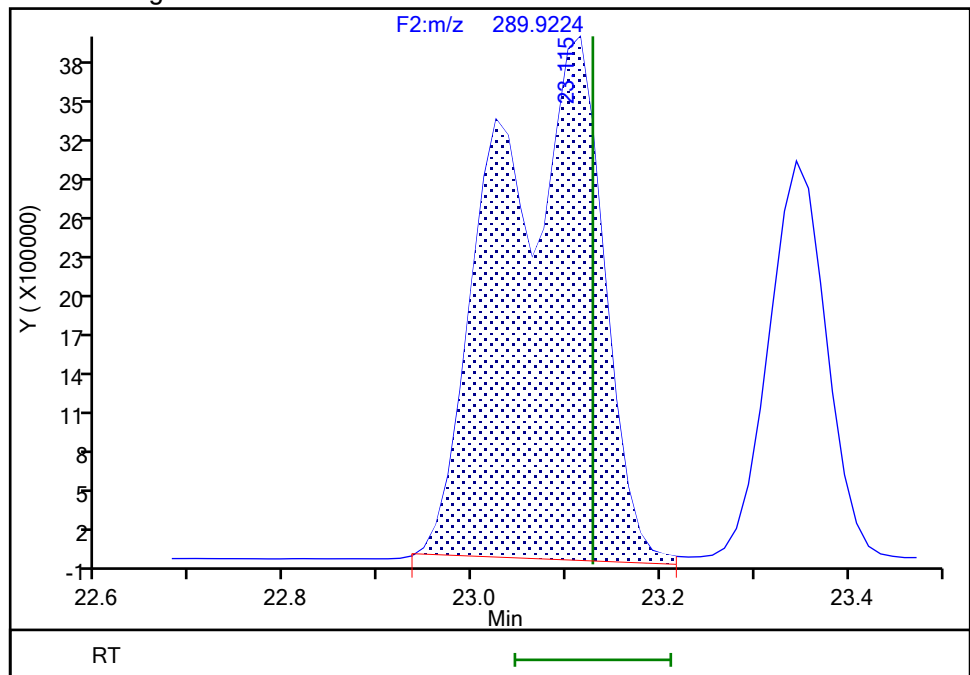
RT: 23.11
Area: 16898449
Amount: 501.6231
Amount Units: pg/ul

Processing Integration Results



RT: 23.11
Area: 30645858
Amount: 771.8655
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:39 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

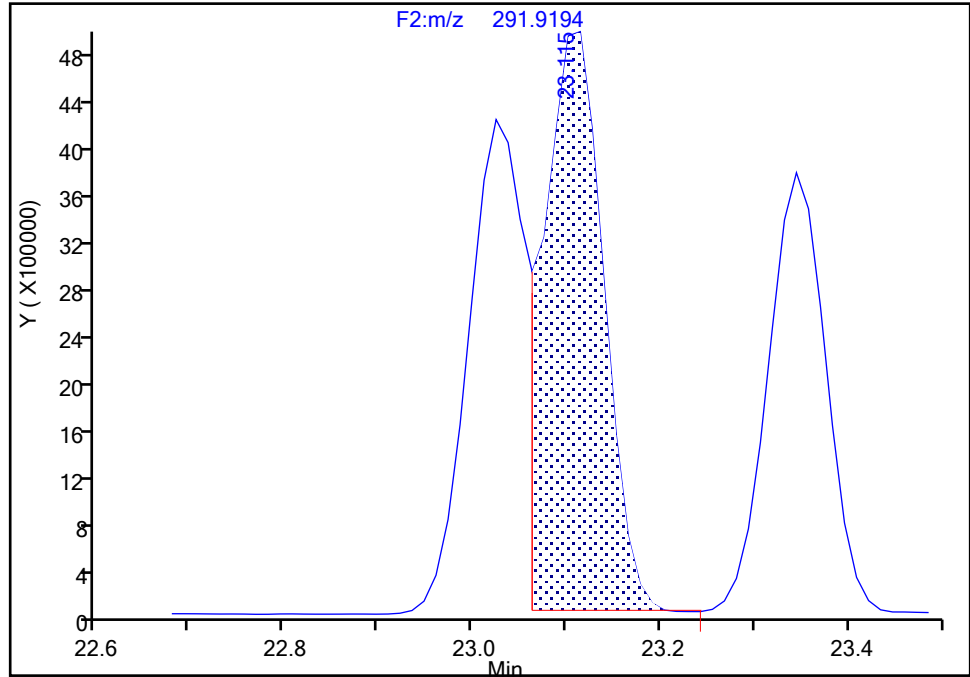
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

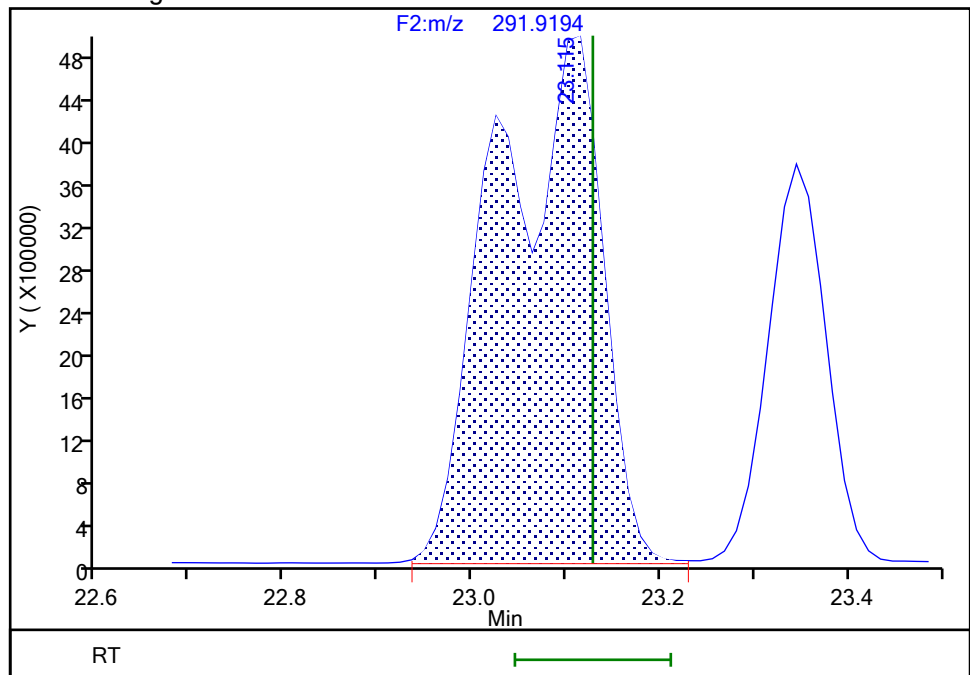
RT: 23.11
Area: 21433250
Amount: 501.6231
Amount Units: pg/ul

Processing Integration Results



RT: 23.11
Area: 38839930
Amount: 771.8655
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-012024-03527
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

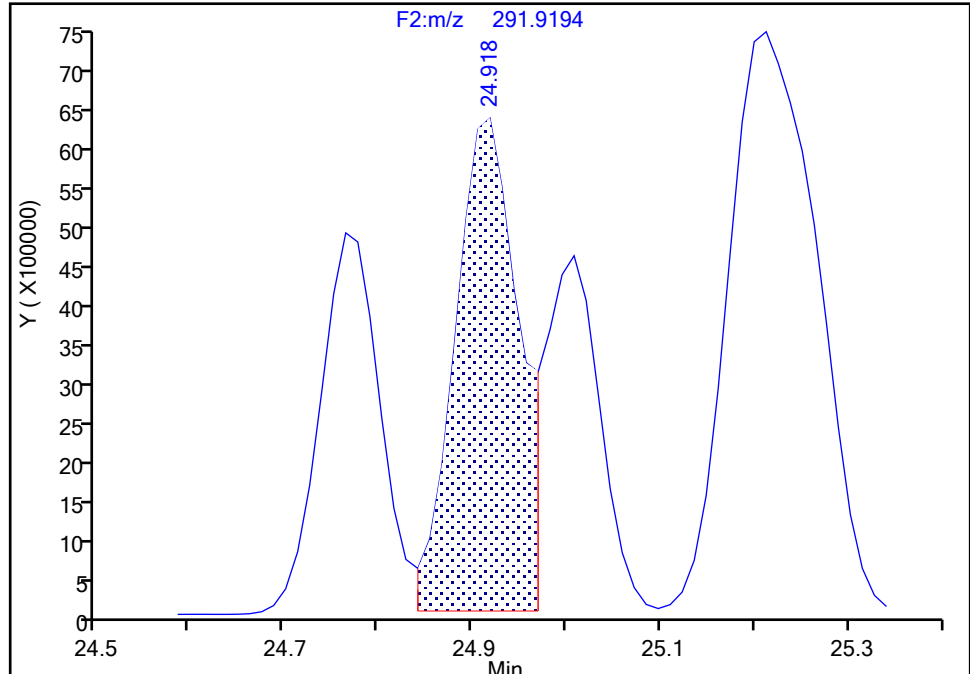
Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

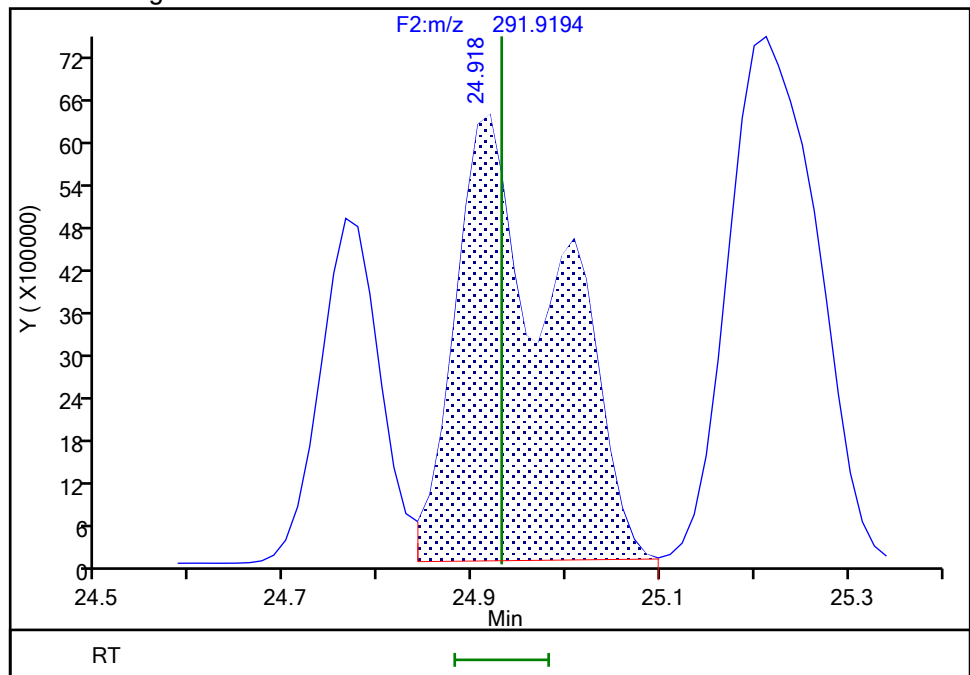
RT: 24.92
Area: 29202623
Amount: 531.4284
Amount Units: pg/ul

Processing Integration Results



RT: 24.92
Area: 47225368
Amount: 749.8375
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

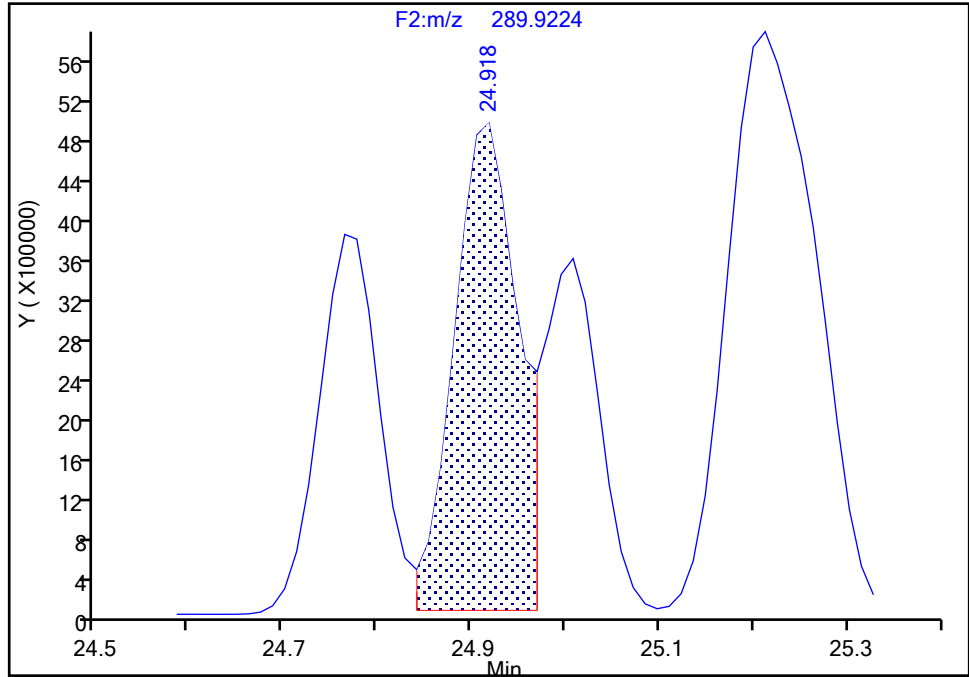
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

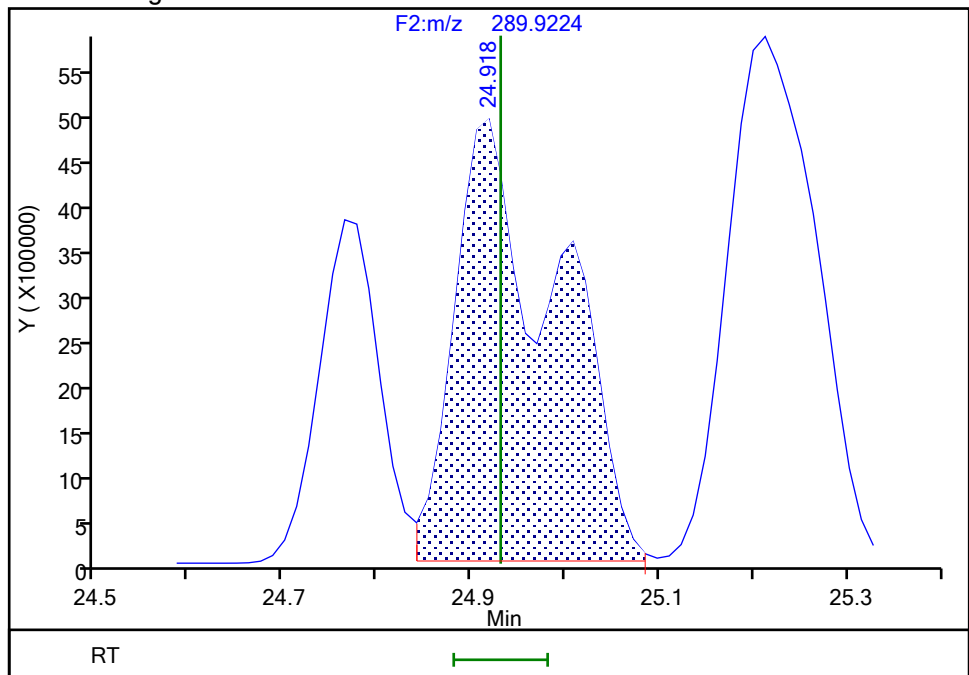
RT: 24.92
Area: 22988569
Amount: 531.4284
Amount Units: pg/ul

Processing Integration Results



RT: 24.92
Area: 37178269
Amount: 749.8375
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2077 of 3076

BASFHWC-G-01529
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

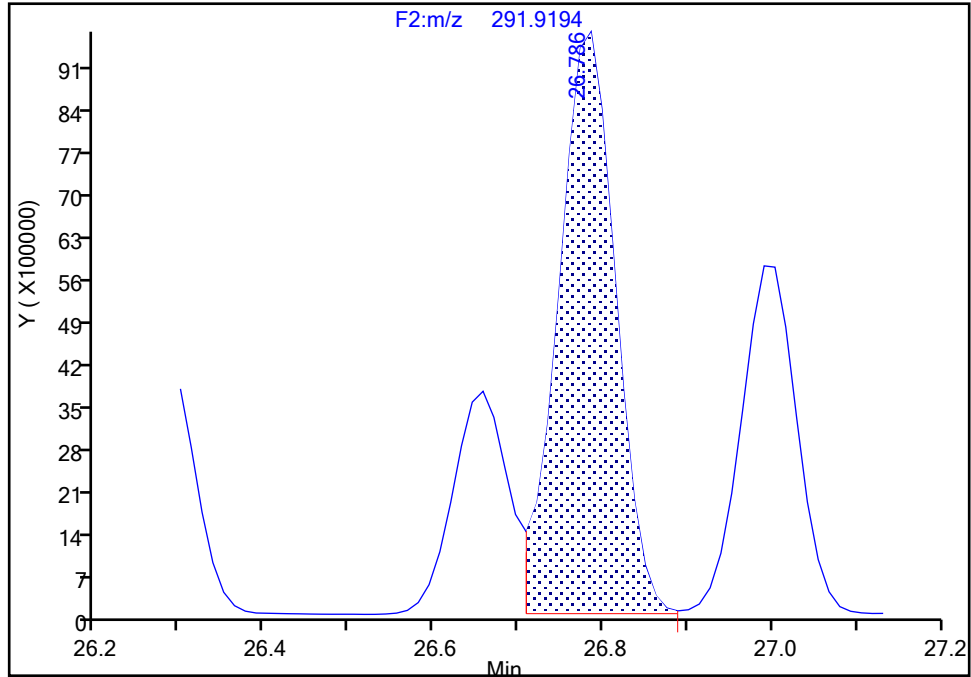
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

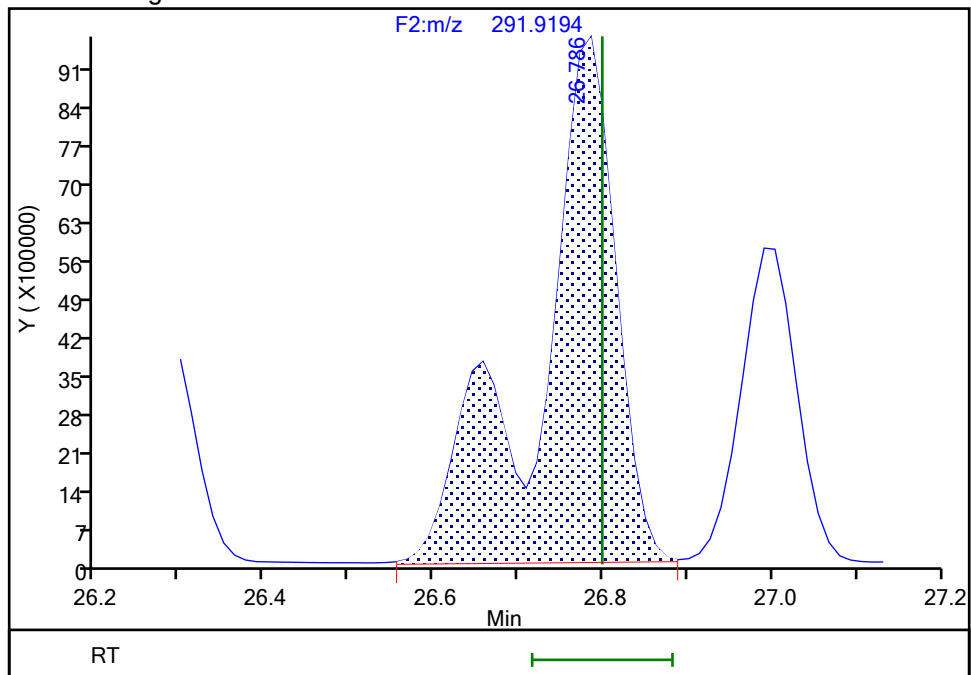
RT: 26.79
Area: 44846660
Amount: 906.5085
Amount Units: pg/ul

Processing Integration Results



RT: 26.79
Area: 61486178
Amount: 1134.5940
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#: 0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

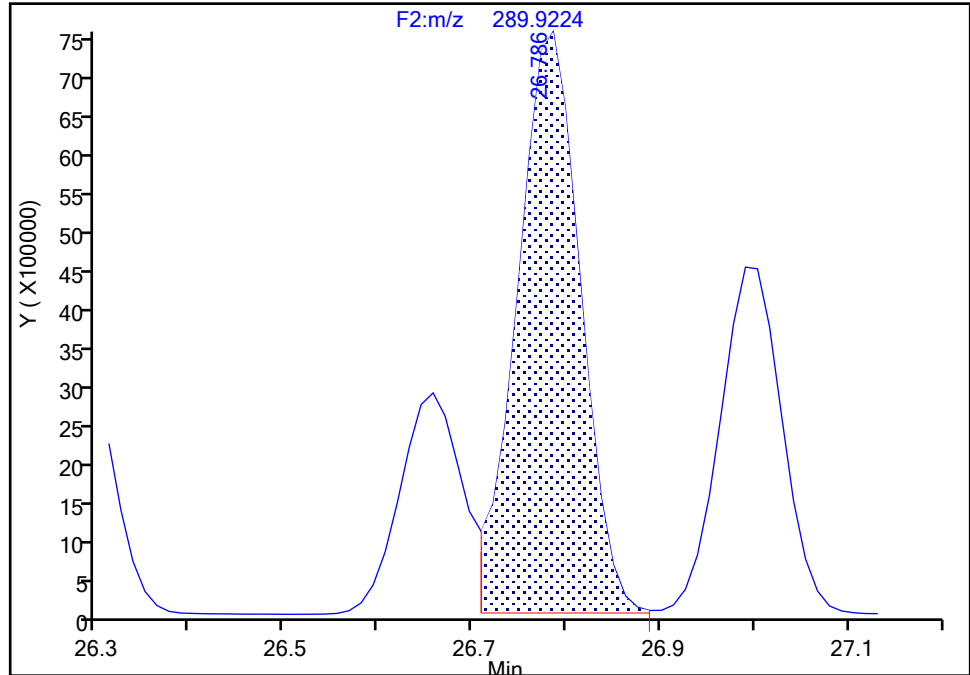
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

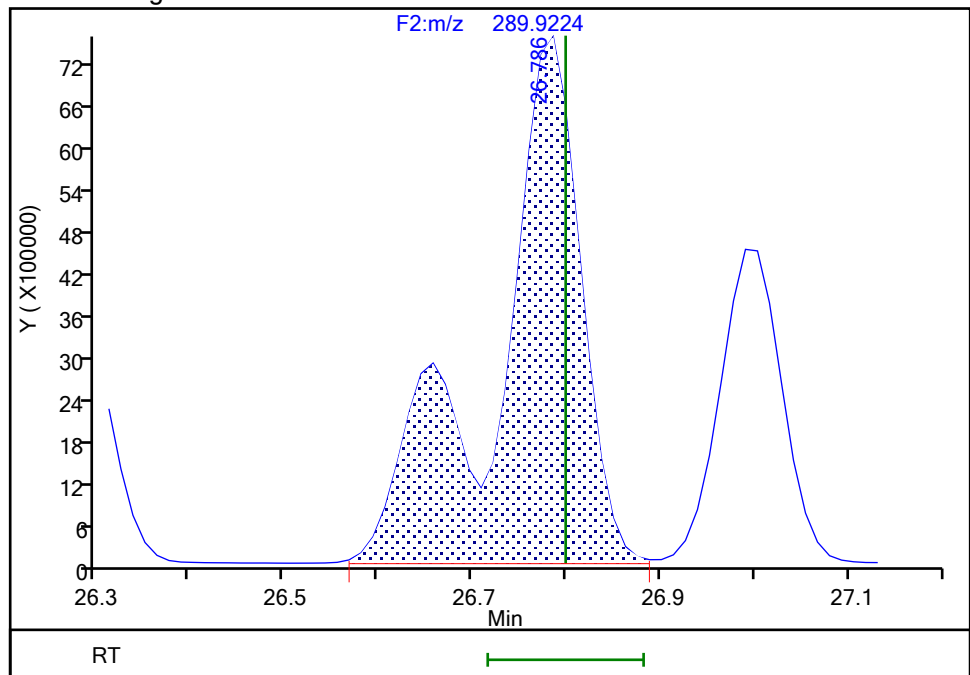
RT: 26.79
Area: 35210554
Amount: 906.5085
Amount Units: pg/ul

Processing Integration Results



RT: 26.79
Area: 48057577
Amount: 1134.5940
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

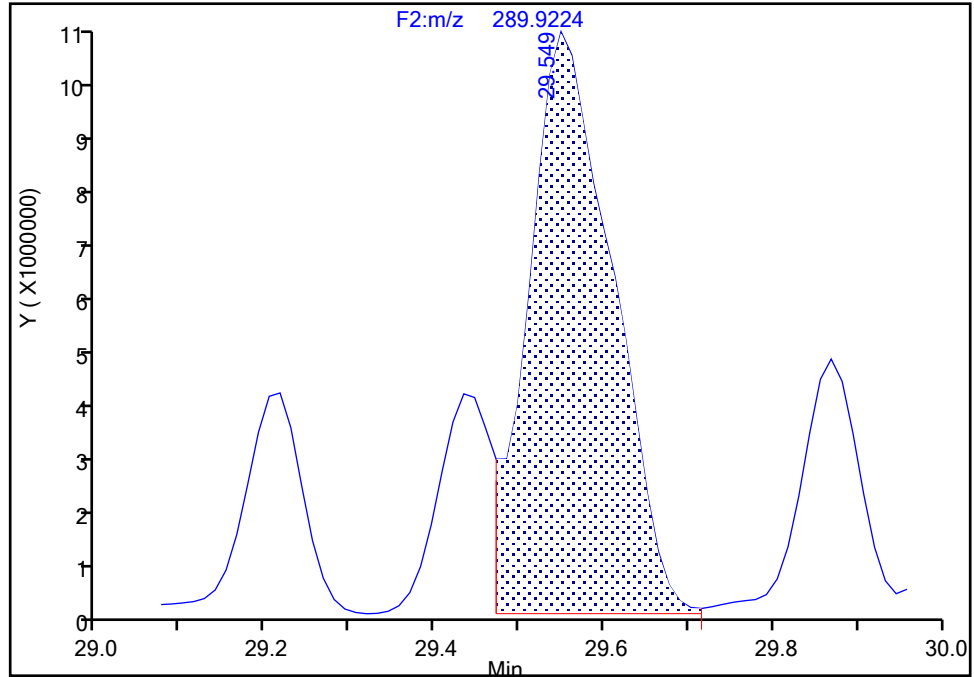
Detector F2(21.81 :35.54)

PCB-61/70/74/76, CAS: STL01808

Signal: 1

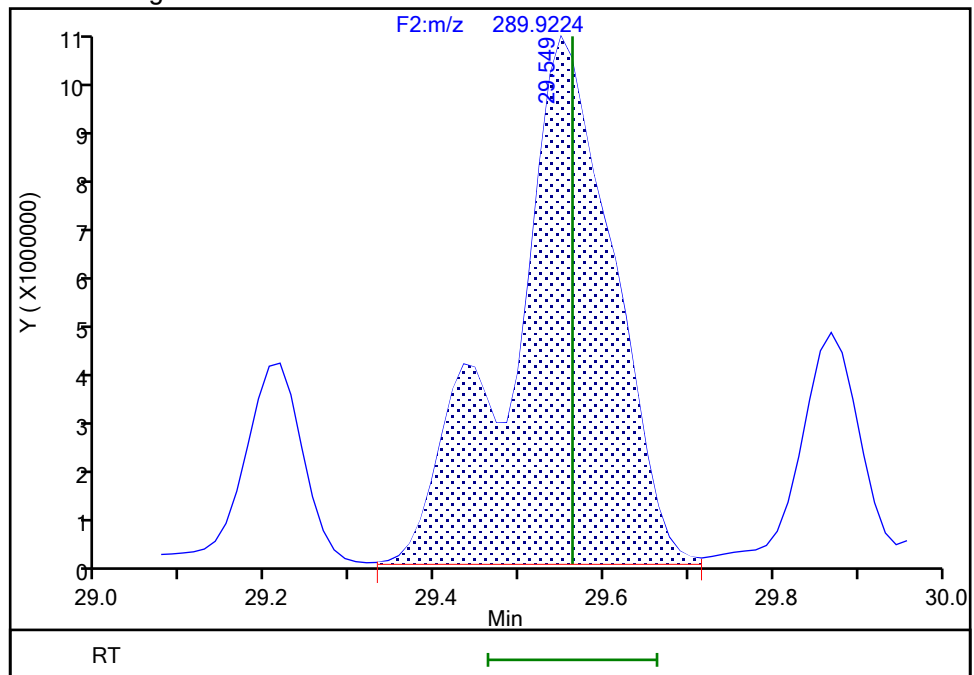
RT: 29.55
Area: 75252399
Amount: 1432.6490
Amount Units: pg/ul

Processing Integration Results



RT: 29.55
Area: 92572268
Amount: 1539.9013
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:26 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

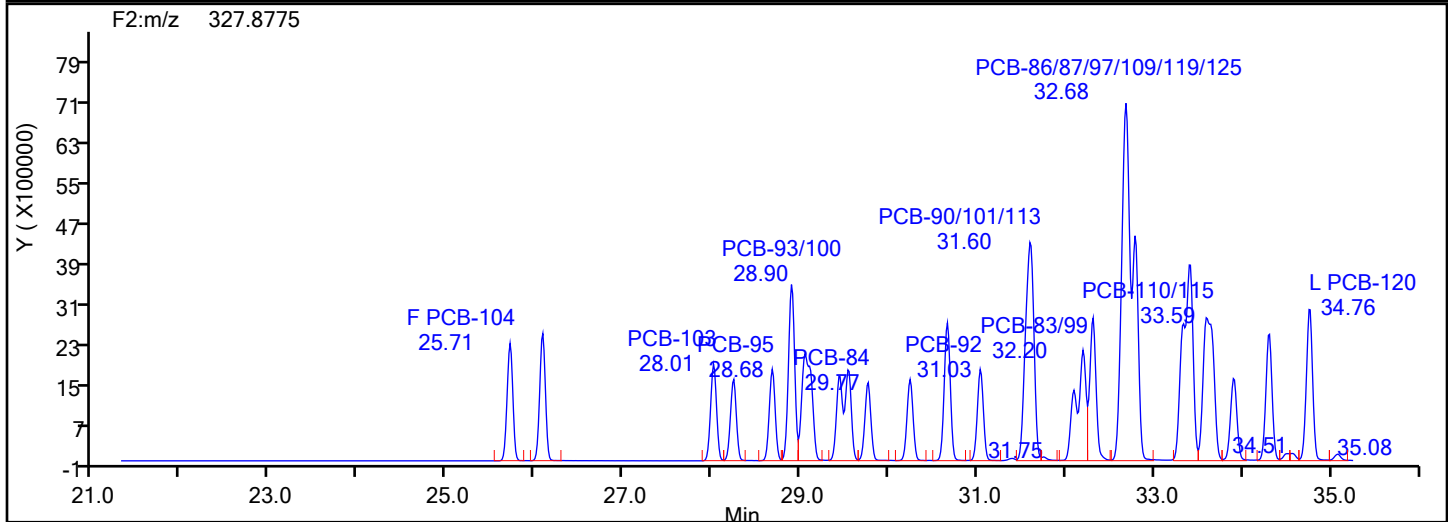
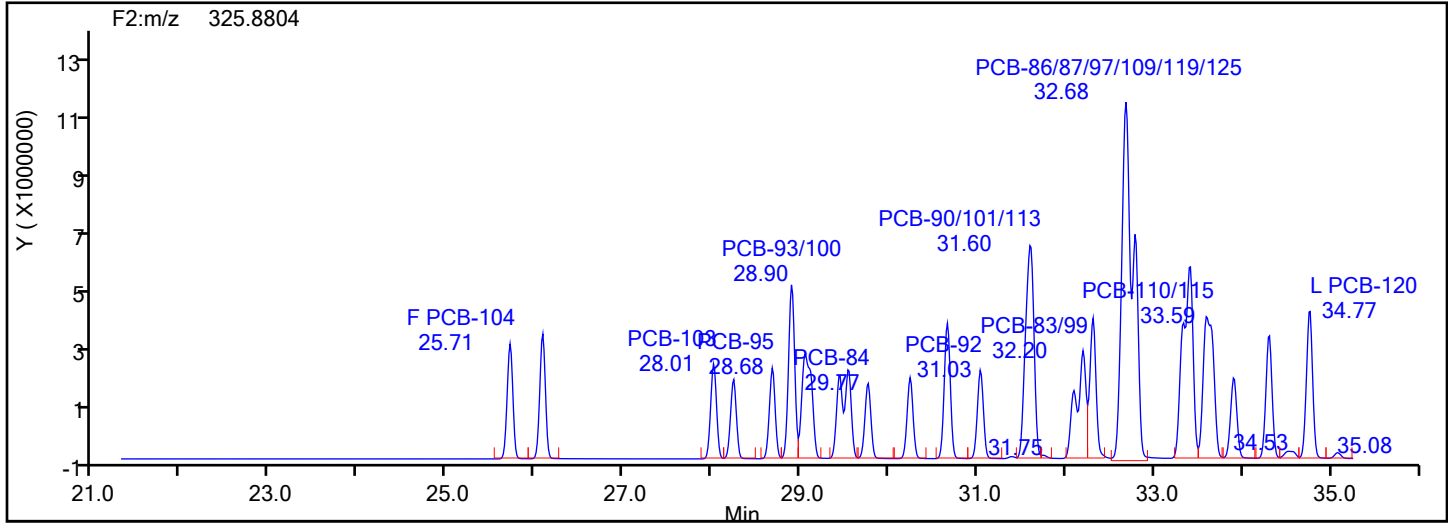
Worklist#: 87130

Sample Line#: 5

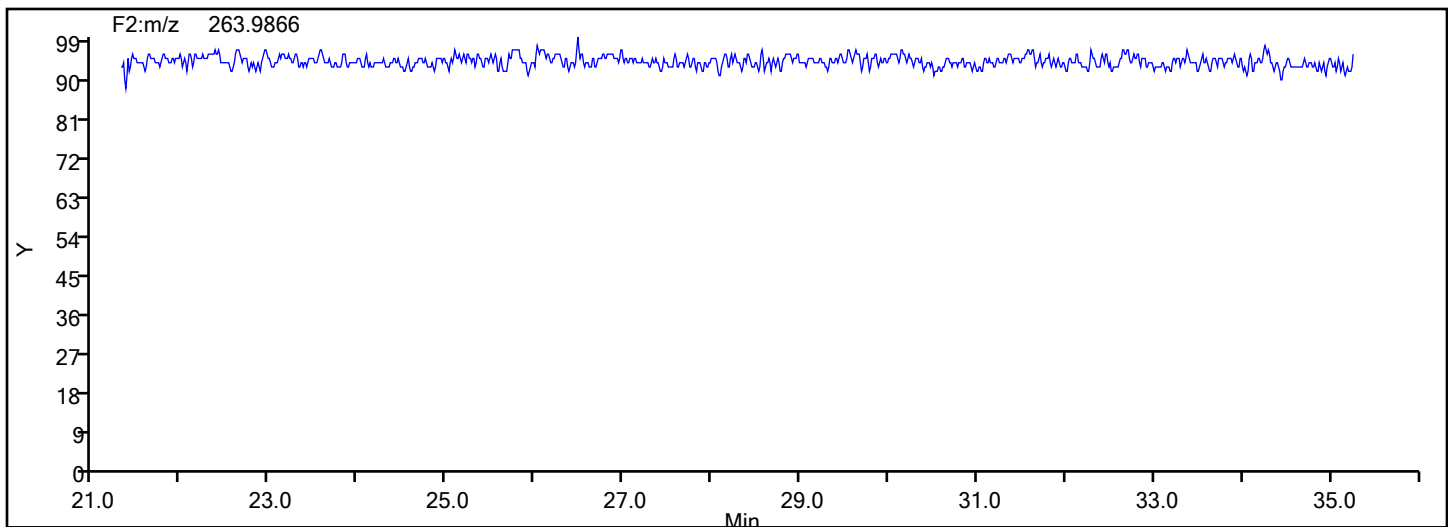
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

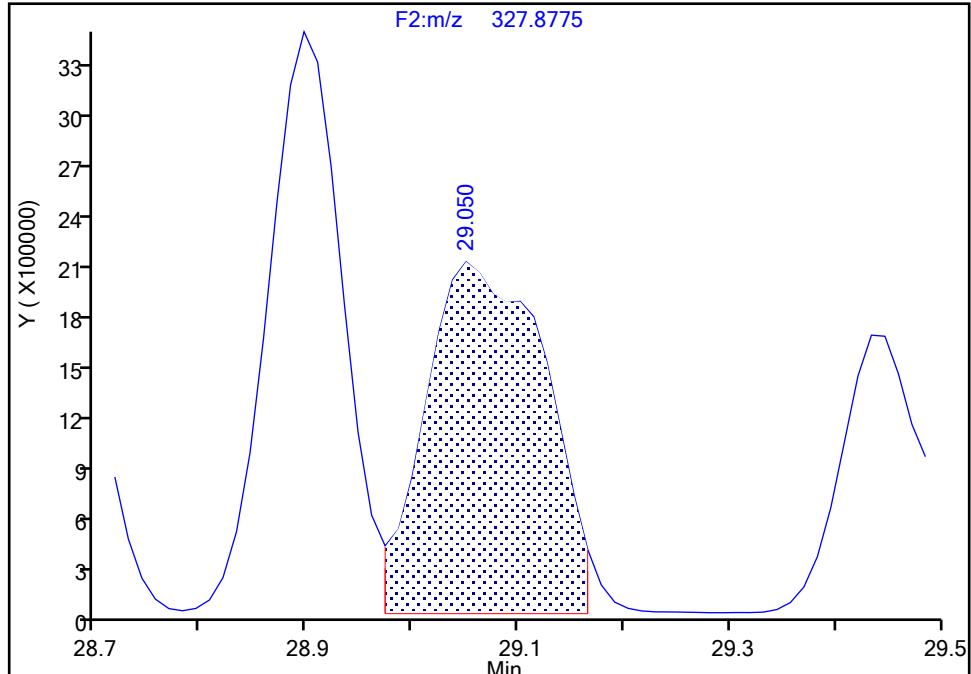
Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 2

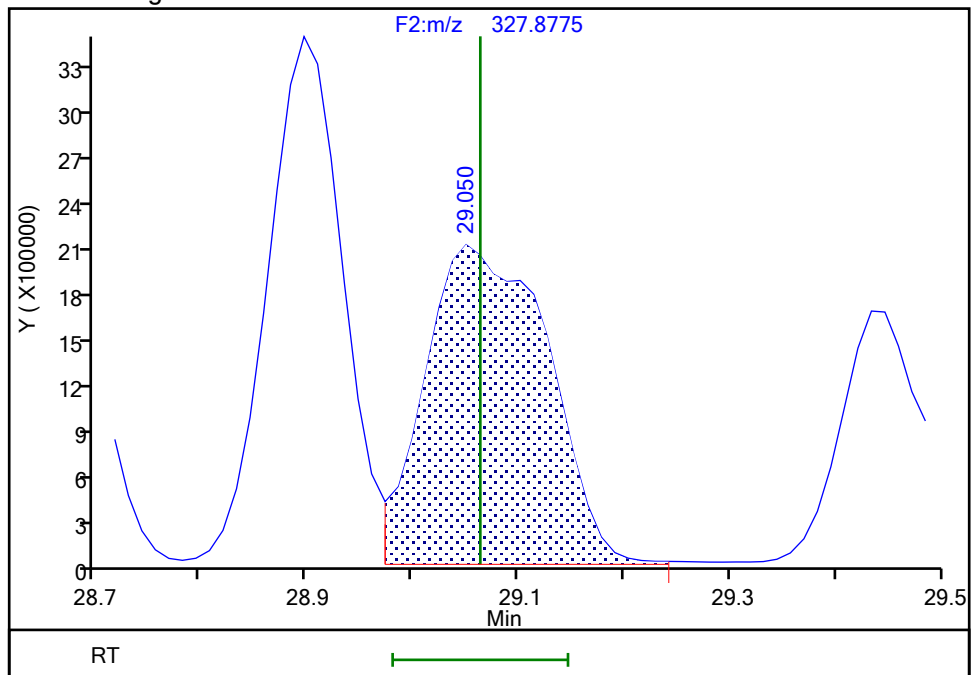
RT: 29.05
Area: 16404335
Amount: 779.9834
Amount Units: pg/ul

Processing Integration Results



RT: 29.05
Area: 16762369
Amount: 785.4233
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

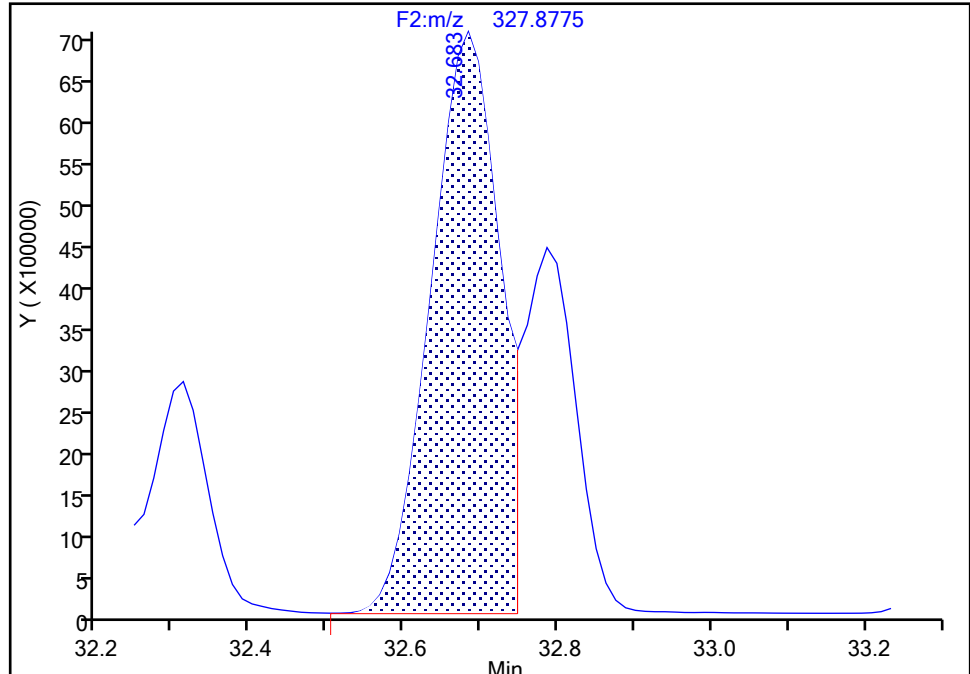
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

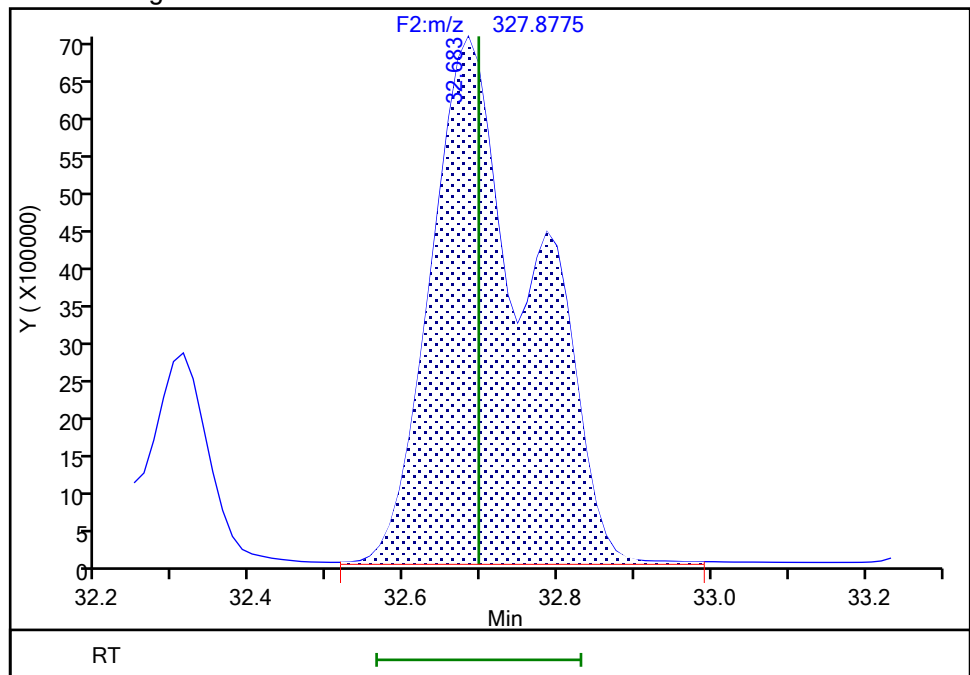
RT: 32.68
Area: 43345087
Amount: 1824.1601
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 63904922
Amount: 2391.0004
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

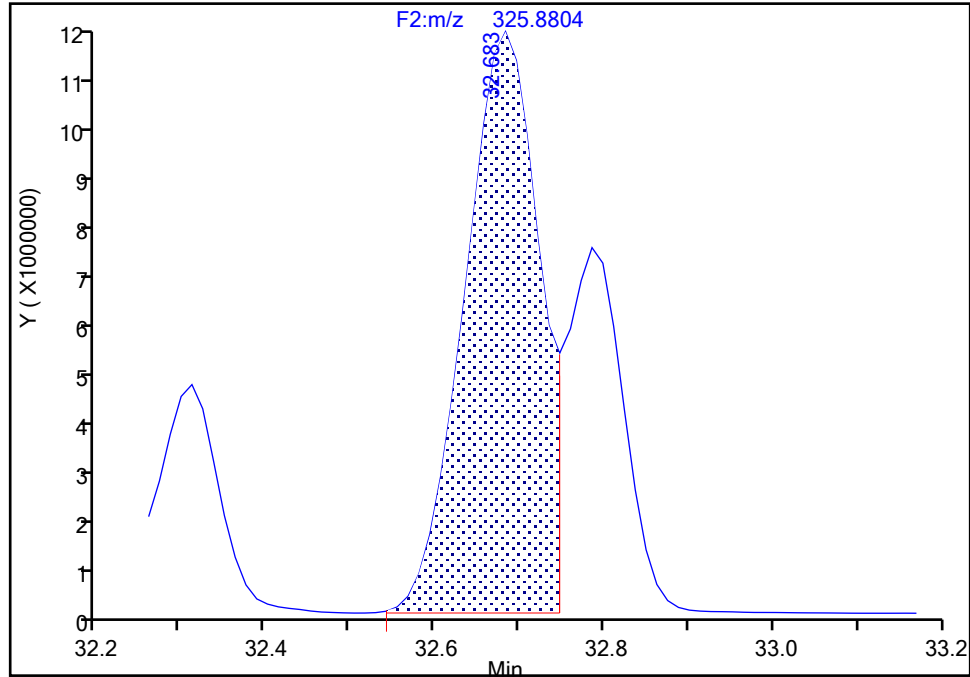
F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

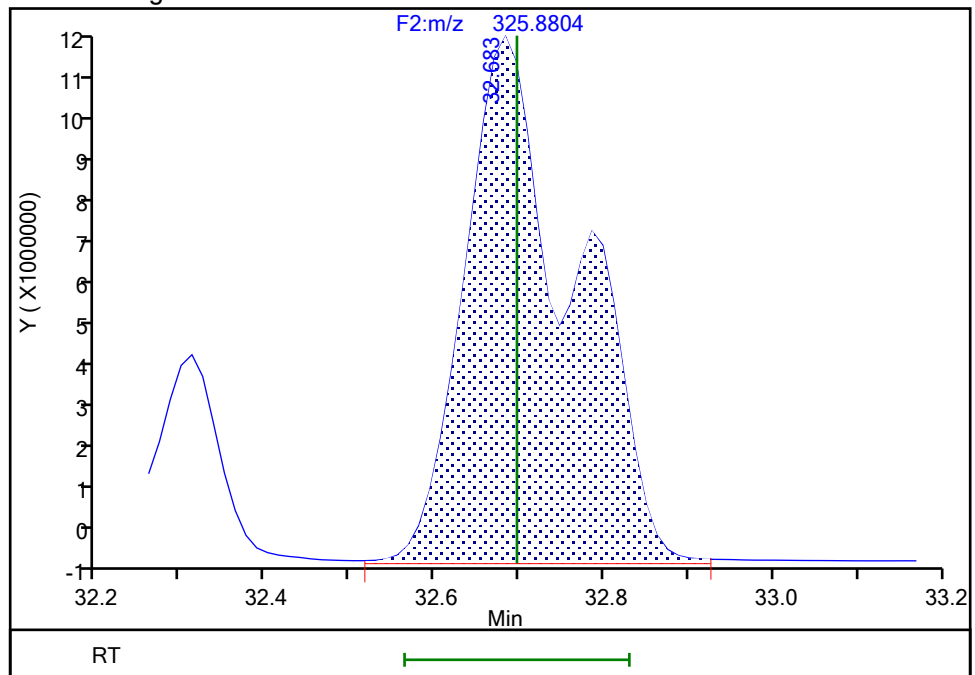
RT: 32.68
Area: 69451865
Amount: 1824.1601
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 103164202
Amount: 2391.0004
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:59:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

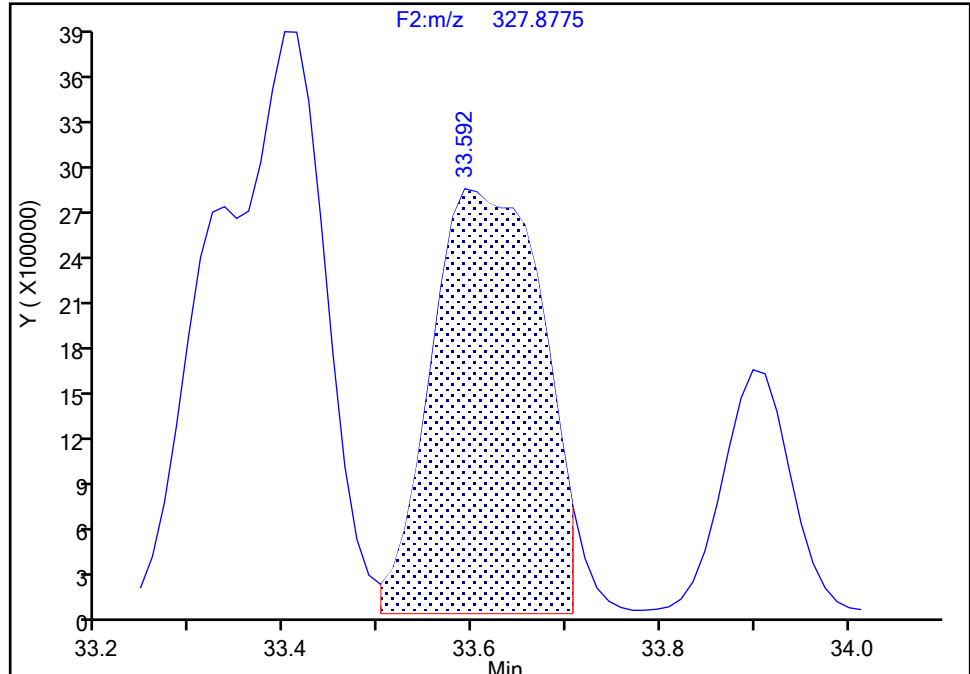
Detector F2(21.81 :35.54)

PCB-110/115, CAS: STL01826

Signal: 2

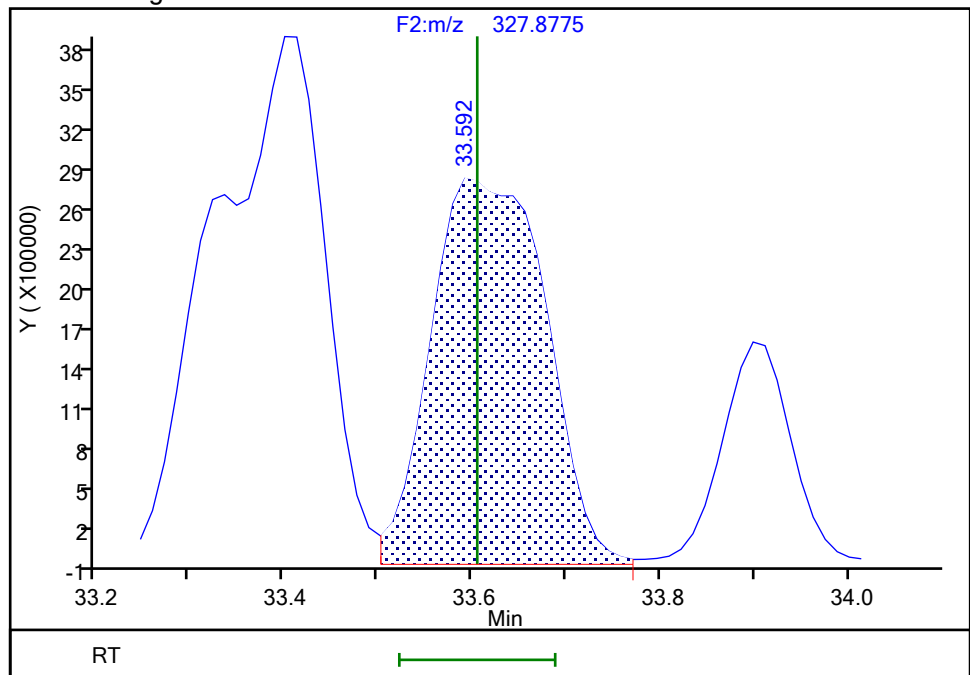
RT: 33.59
Area: 23018669
Amount: 766.0630
Amount Units: pg/ul

Processing Integration Results



RT: 33.59
Area: 23836087
Amount: 774.7018
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:59:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

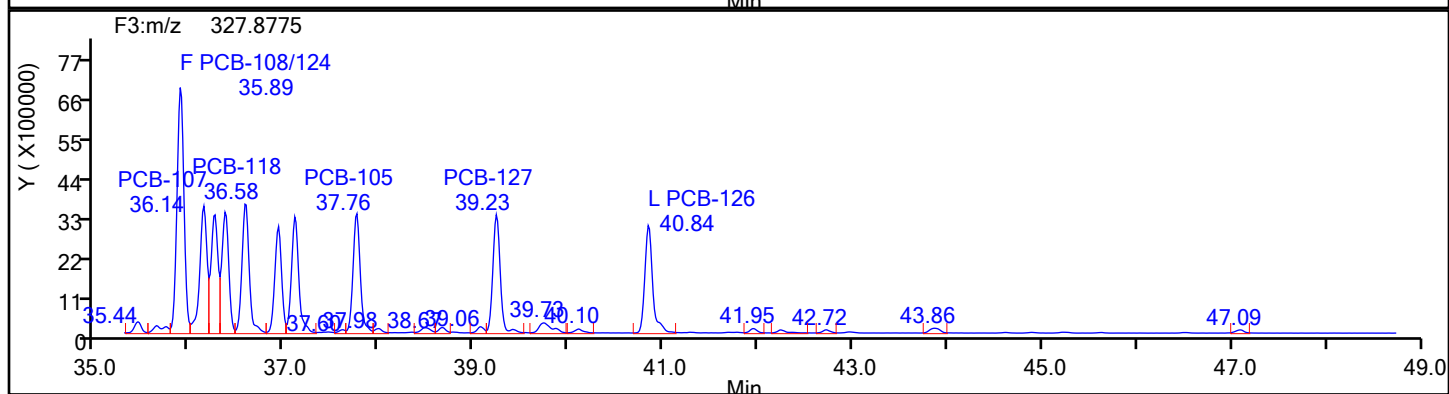
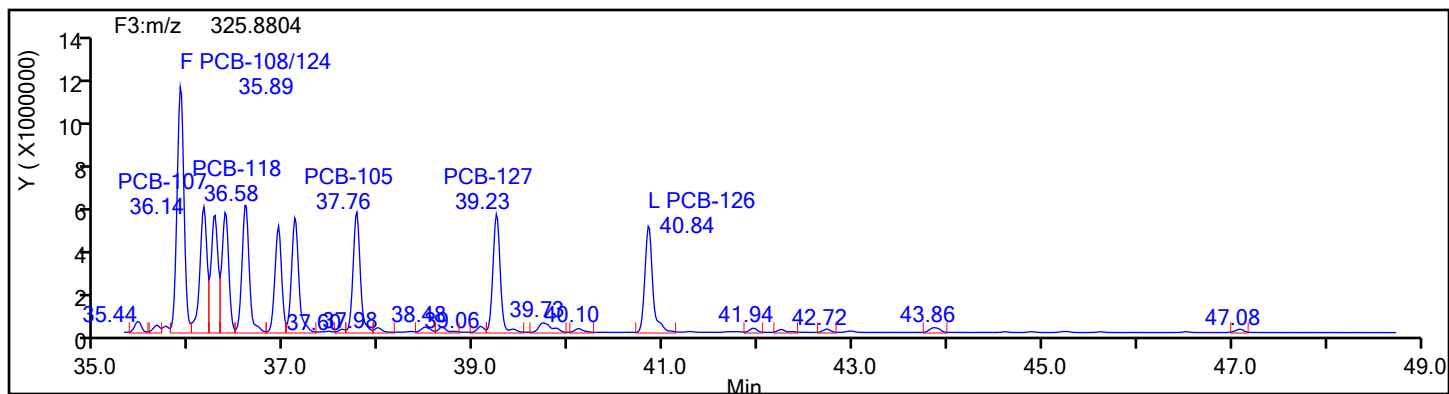
Worklist#: 87130

Sample Line#: 5

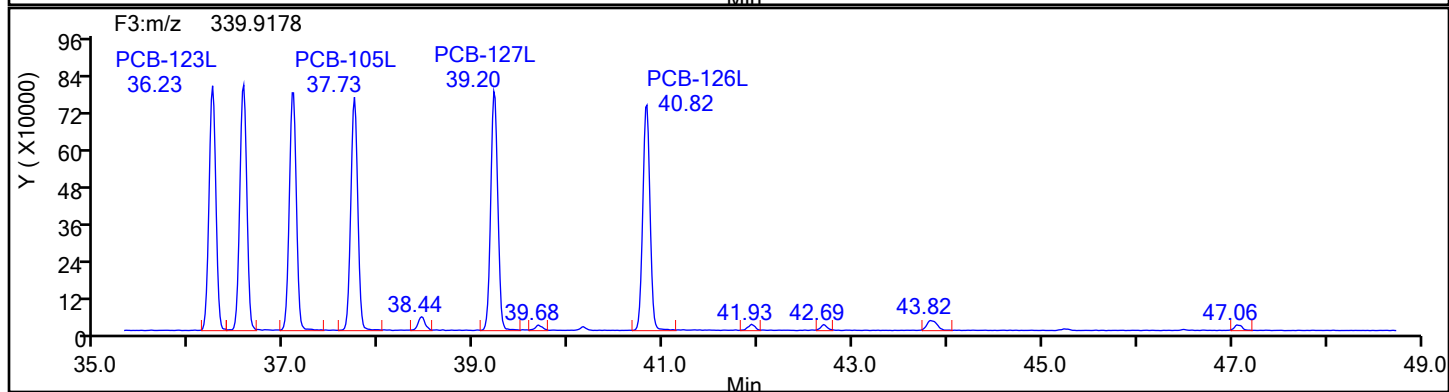
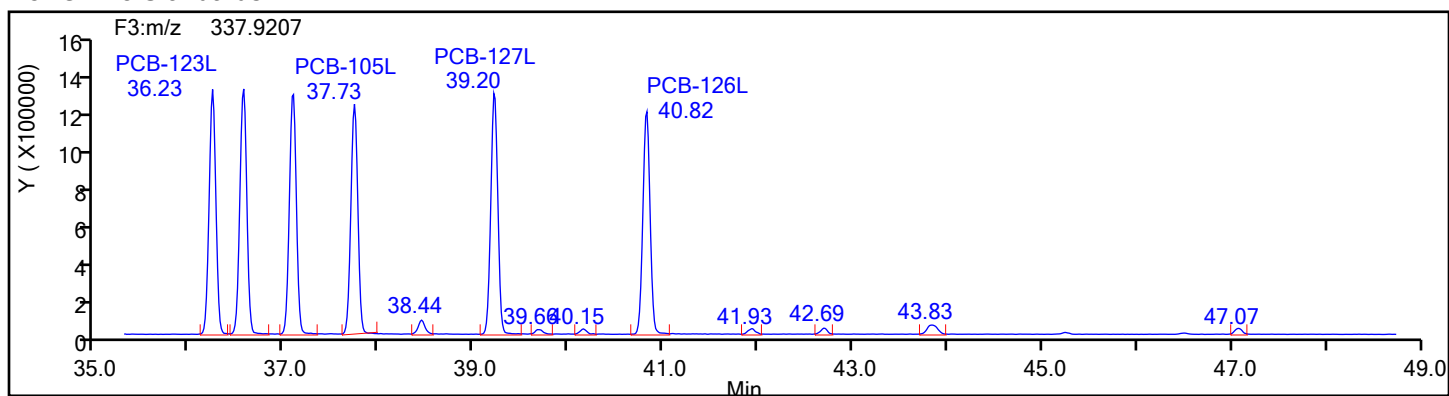
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

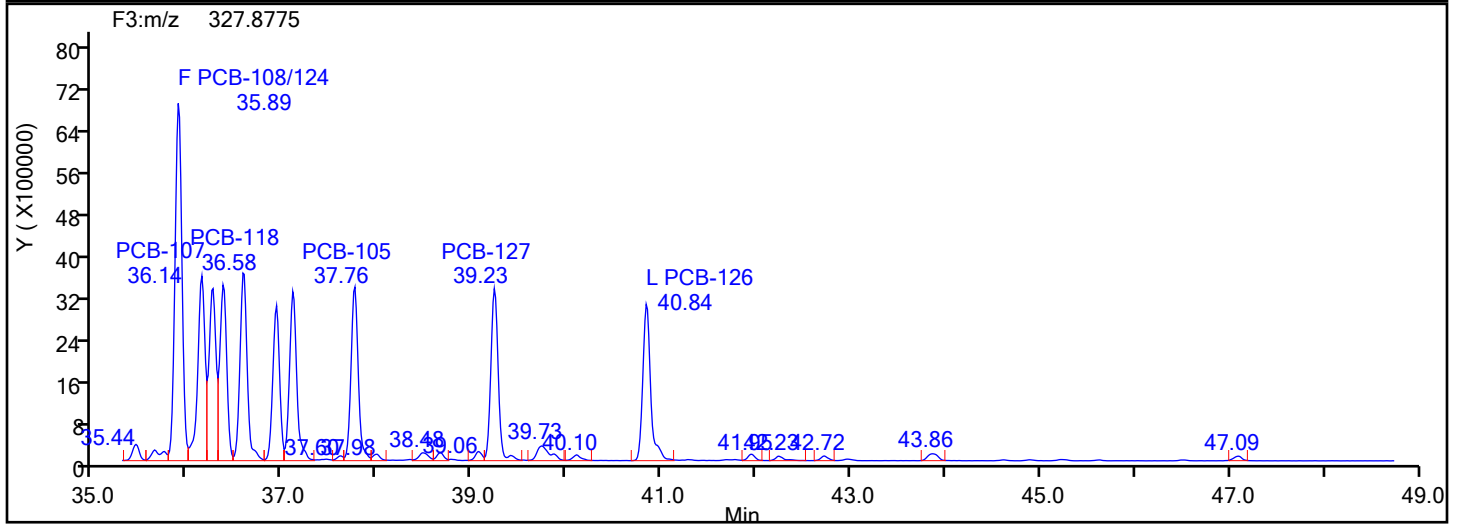
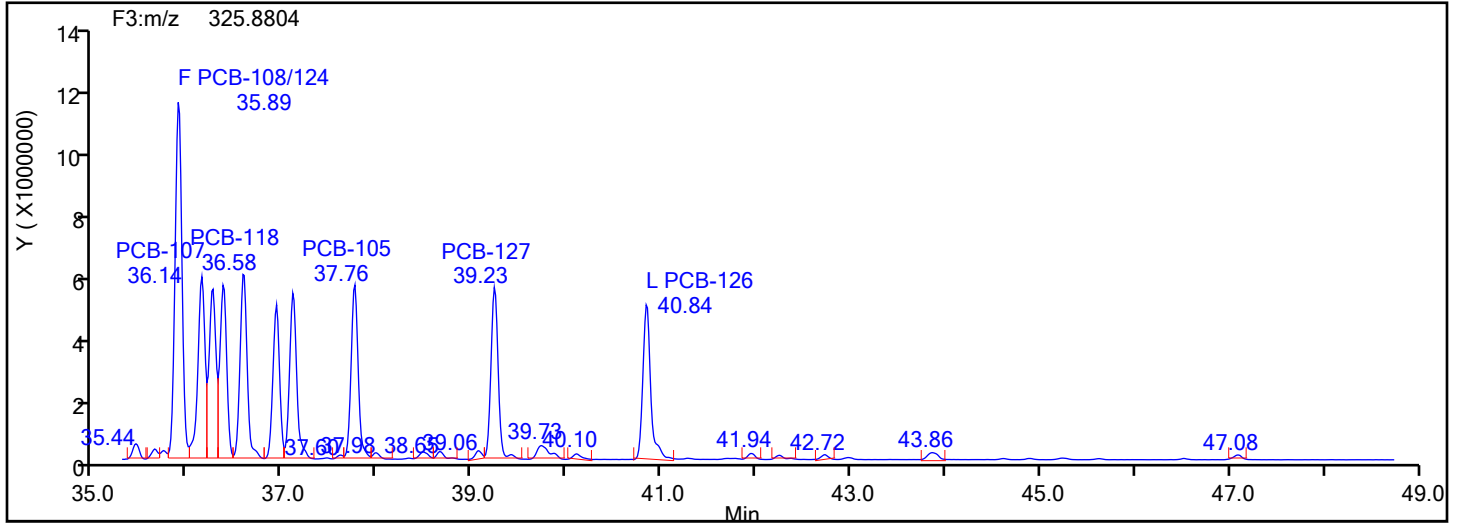
Worklist#: 87130

Sample Line#: 5

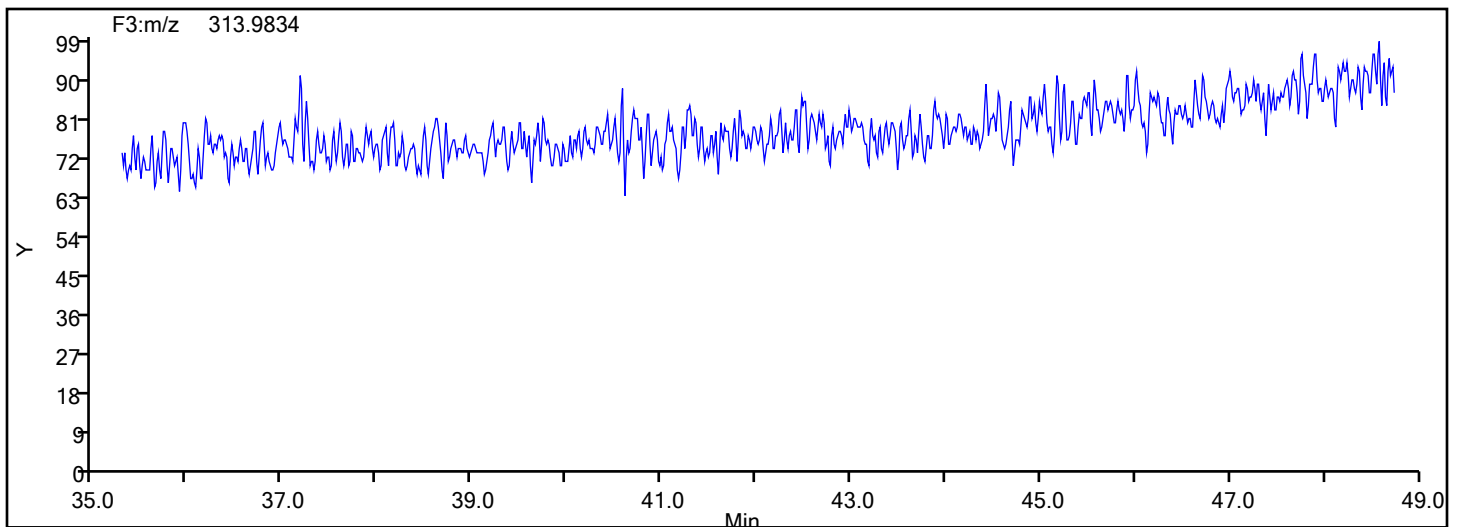
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

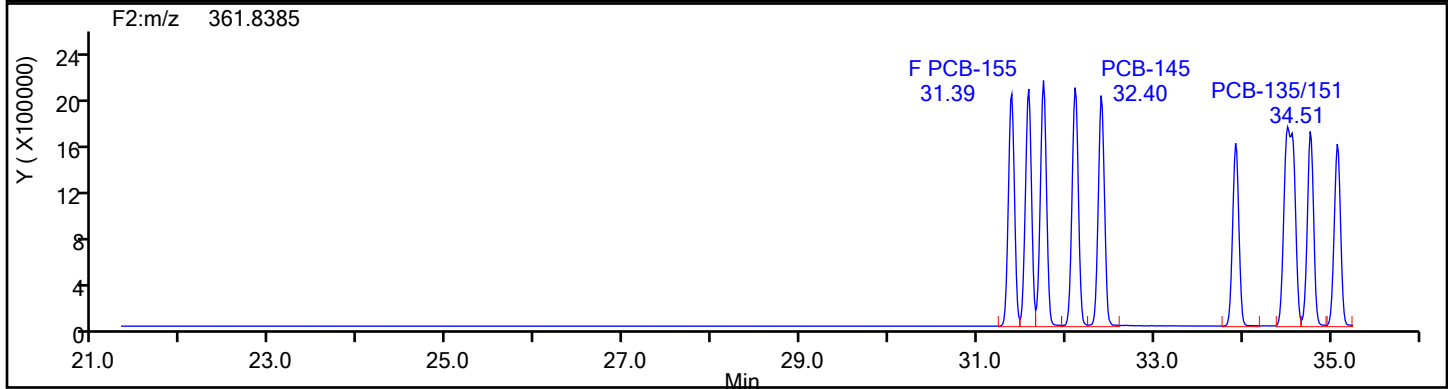
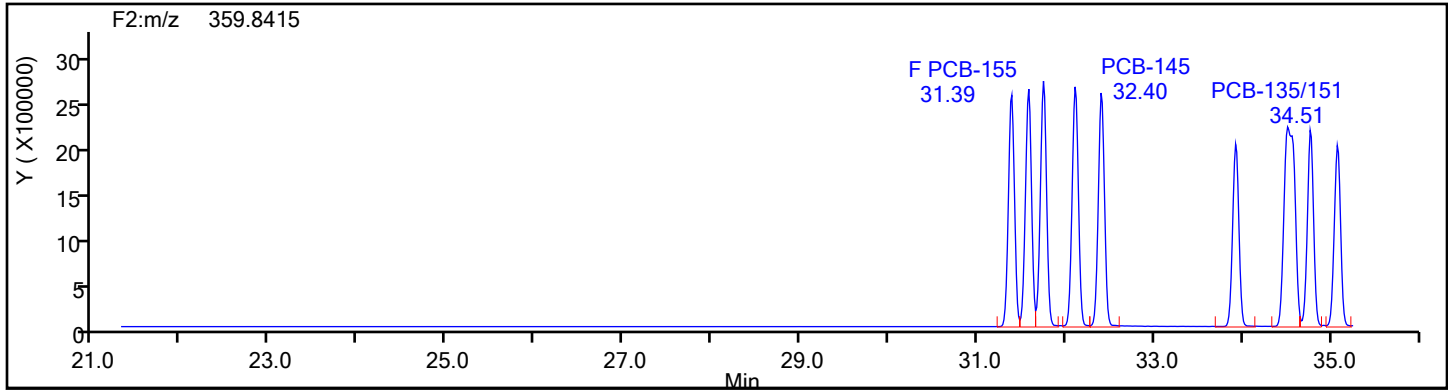
Worklist#: 87130

Sample Line#: 5

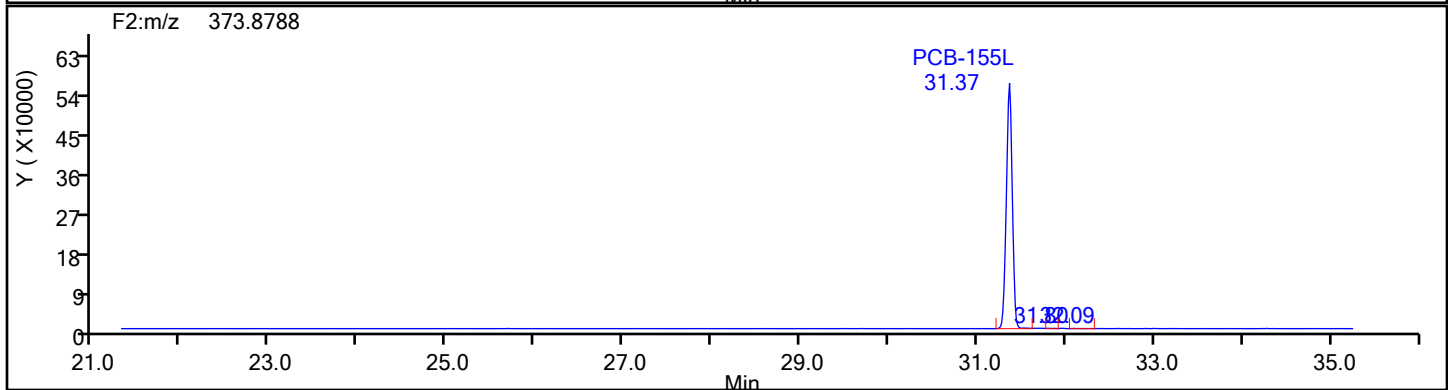
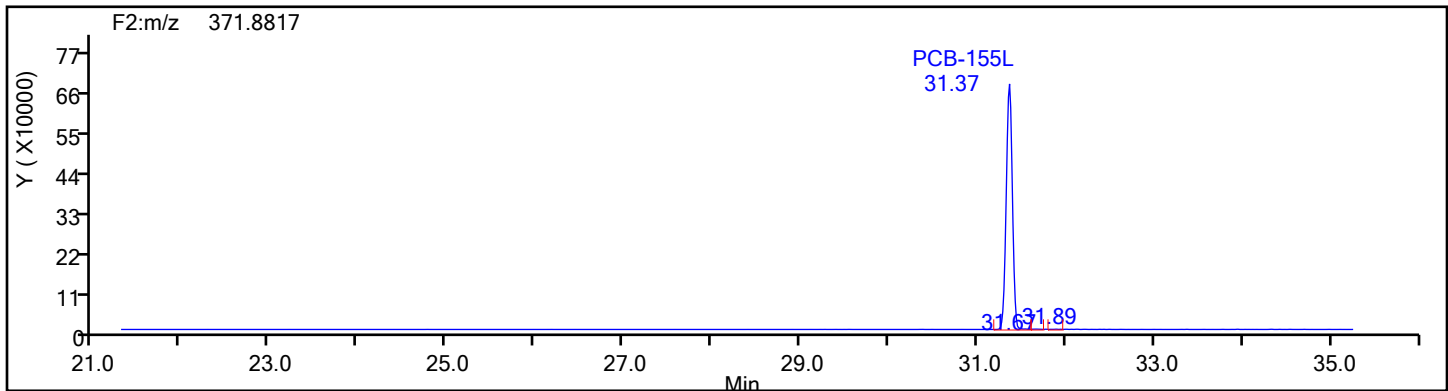
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

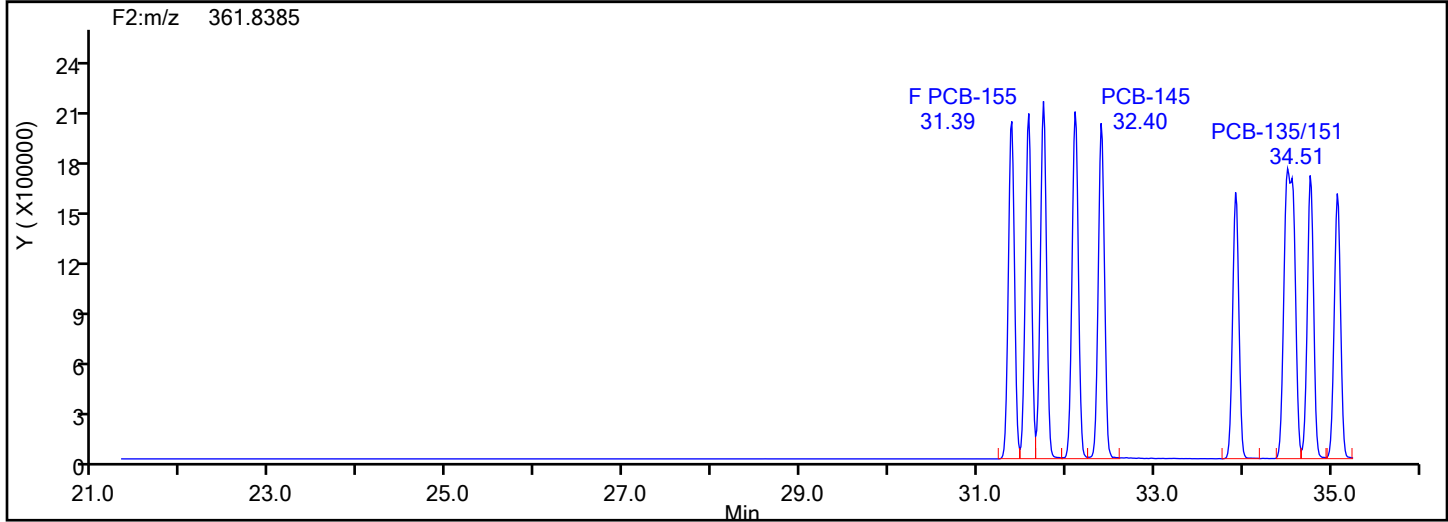
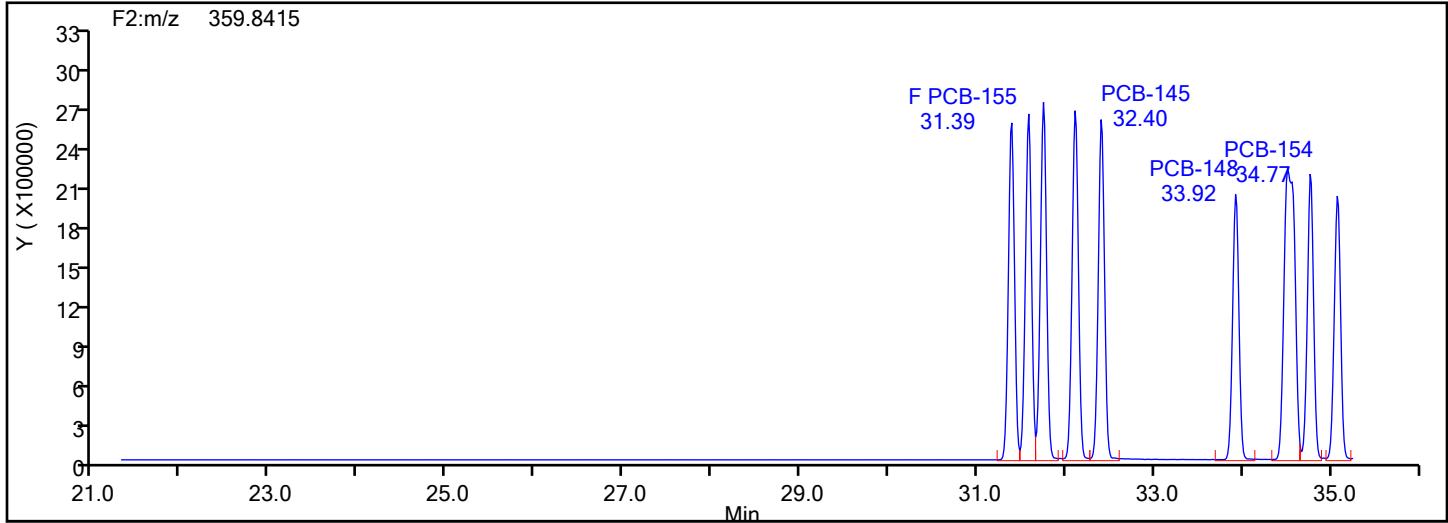


HxPCB F2 Standards

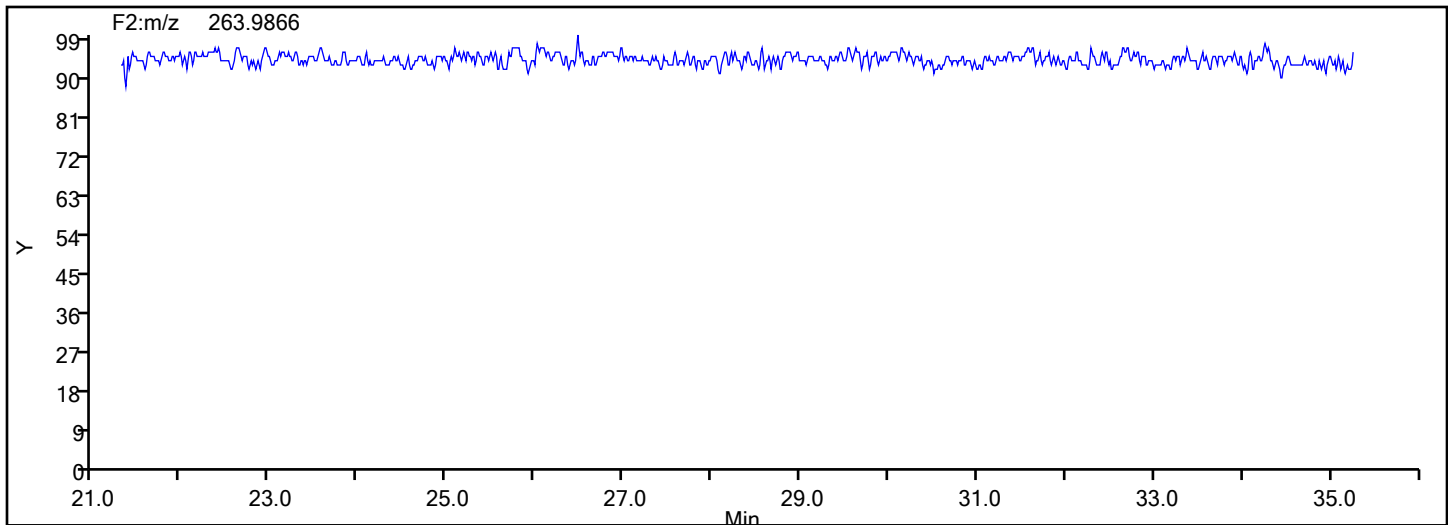


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 5
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

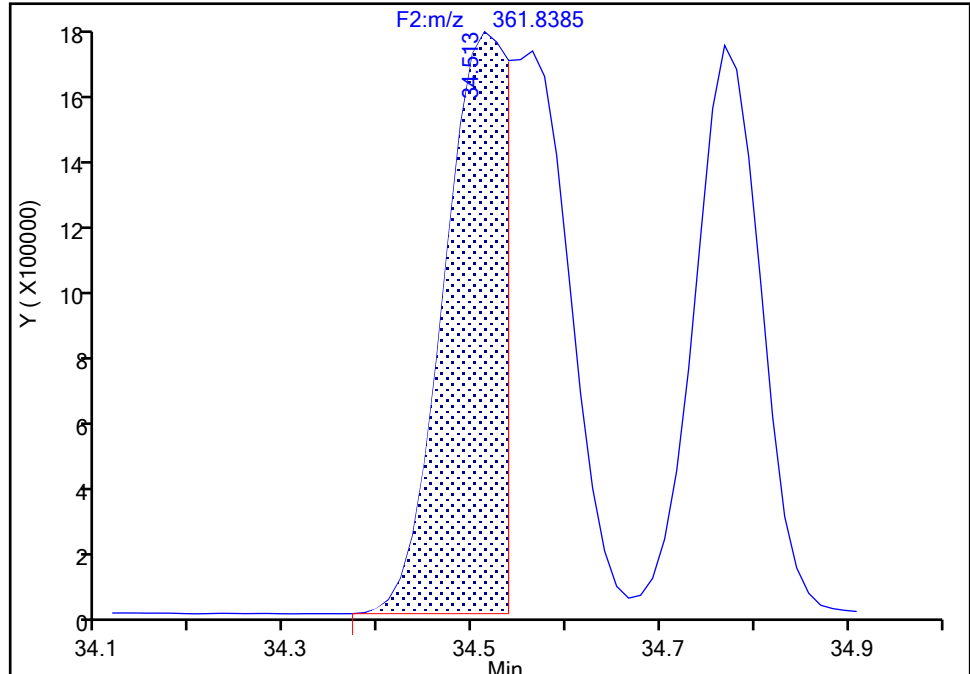
Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

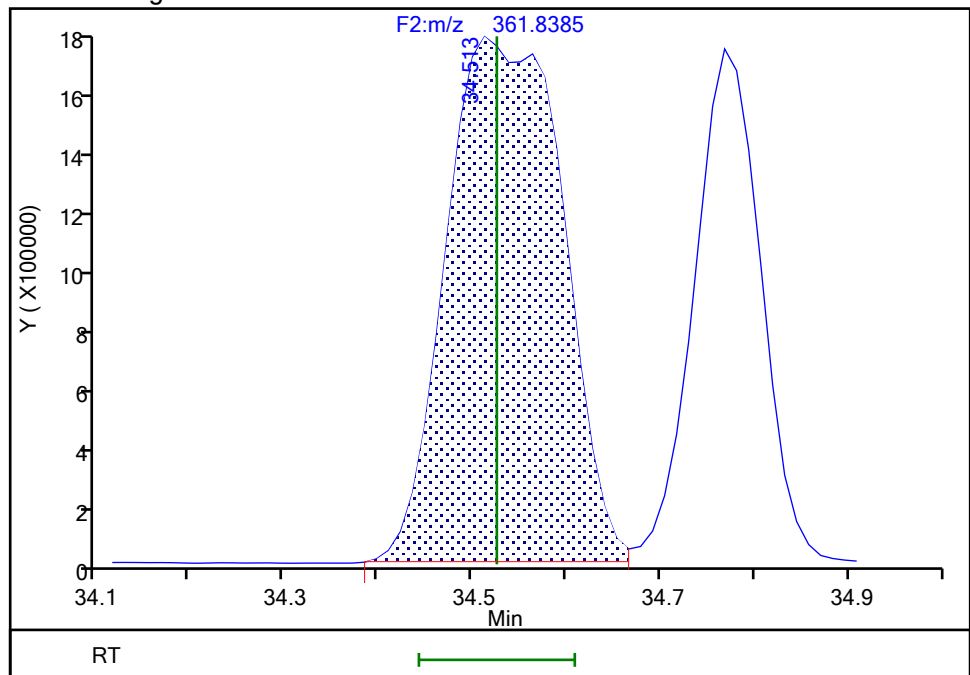
RT: 34.51
Area: 7808092
Amount: 713.7008
Amount Units: pg/ul

Processing Integration Results



RT: 34.51
Area: 15053955
Amount: 798.2296
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:59:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Chrom Revision: 2.3 20-May-2024 22:00:34

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

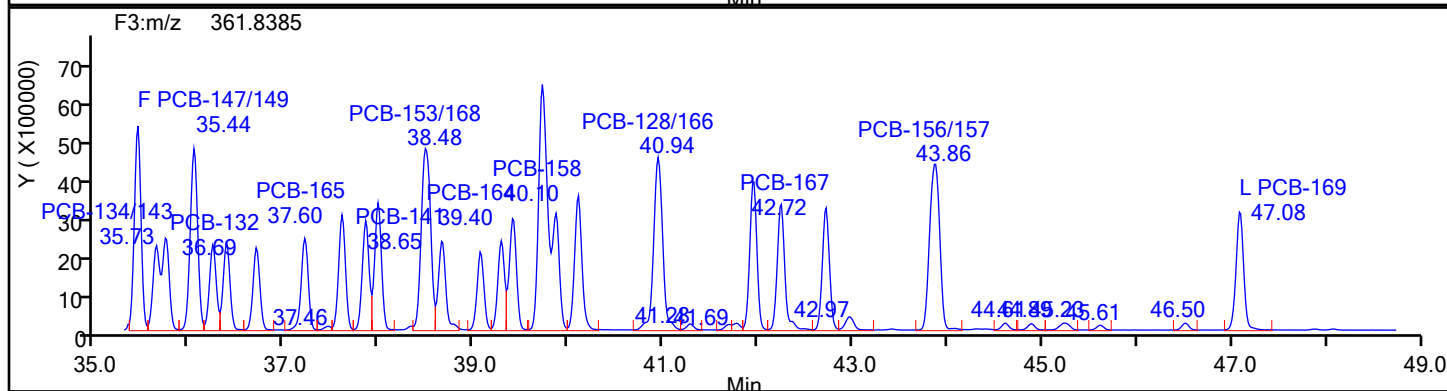
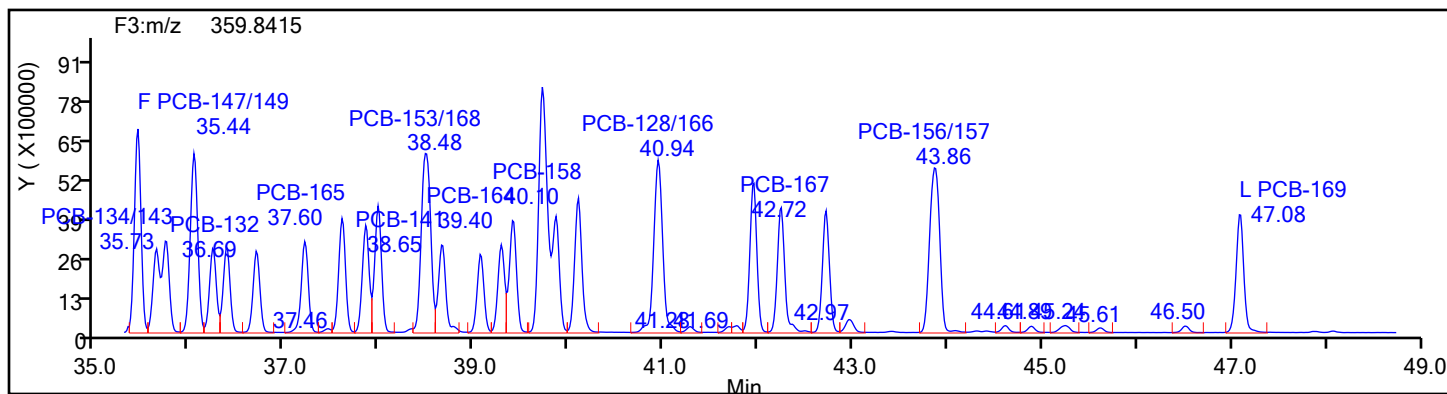
Worklist#: 87130

Sample Line#: 5

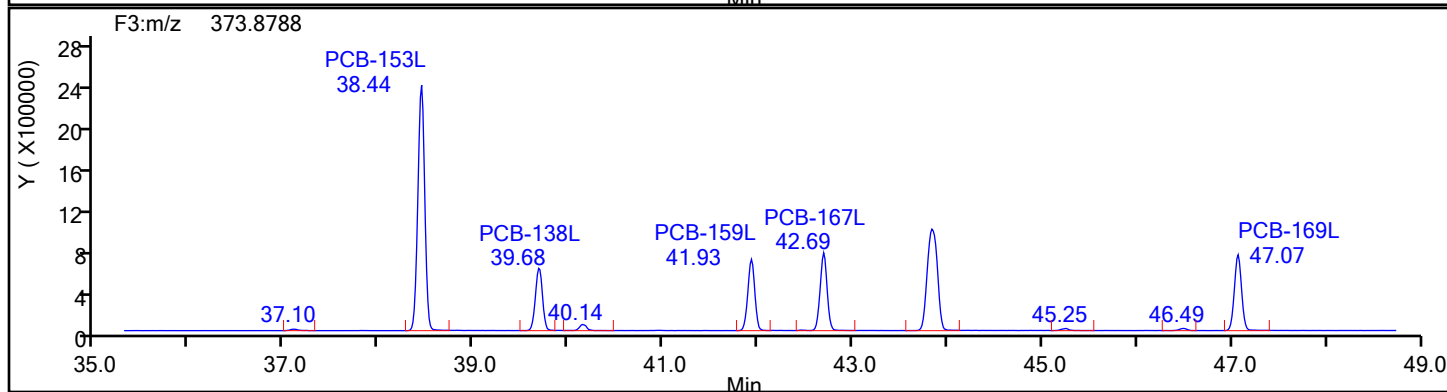
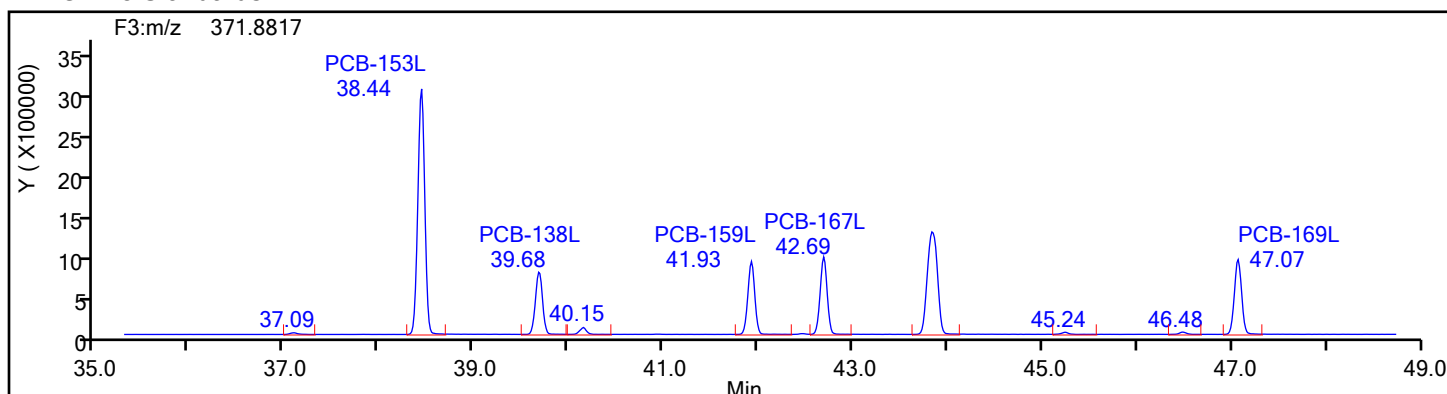
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxCPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

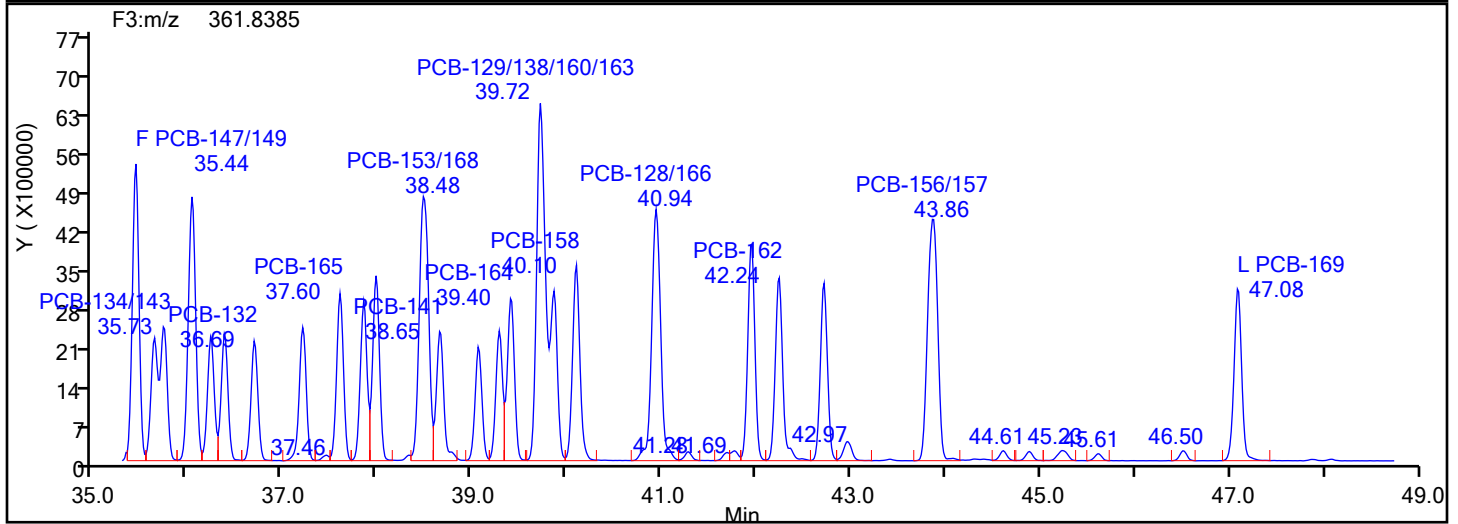
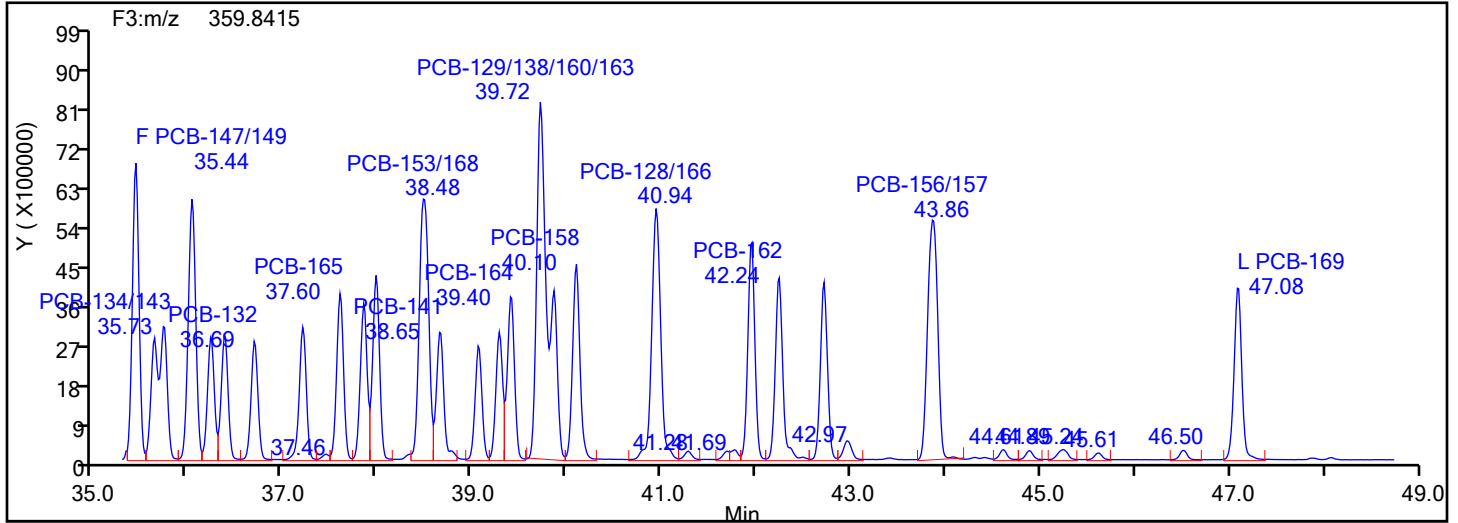
Worklist#: 87130

Sample Line#: 5

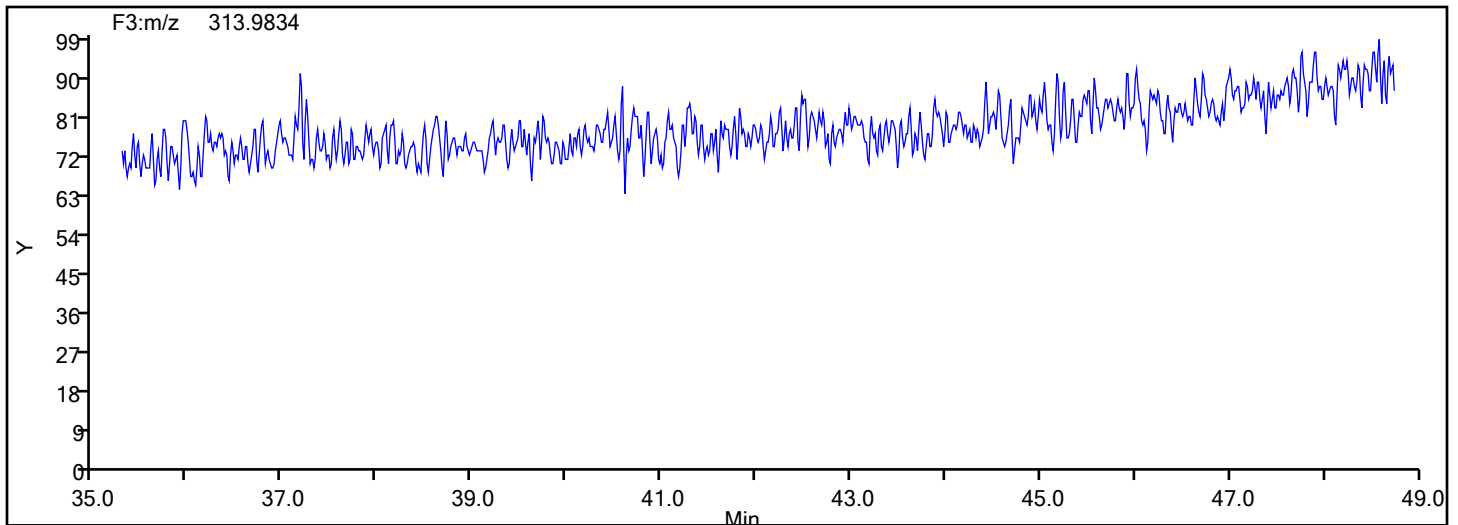
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

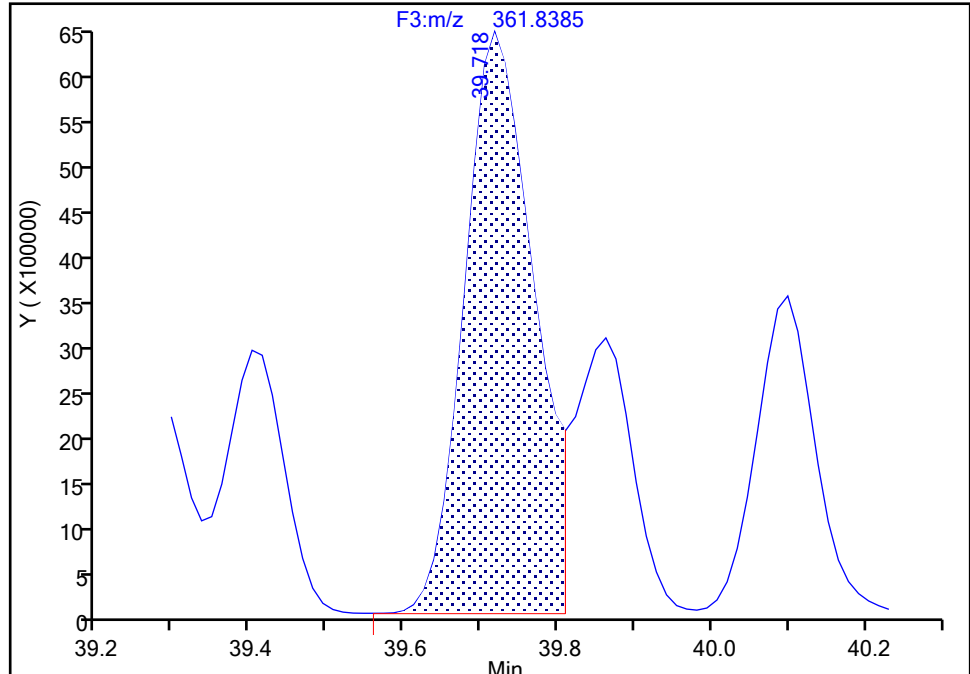
Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

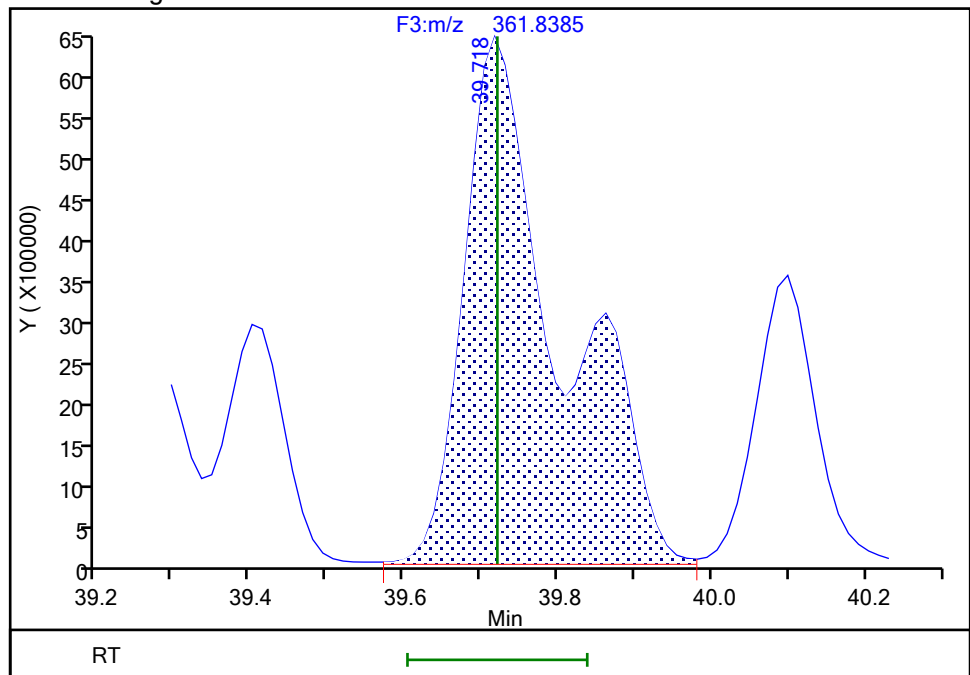
RT: 39.72
Area: 40418410
Amount: 1242.9142
Amount Units: pg/ul

Processing Integration Results



RT: 39.72
Area: 56283132
Amount: 1566.2464
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:00:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

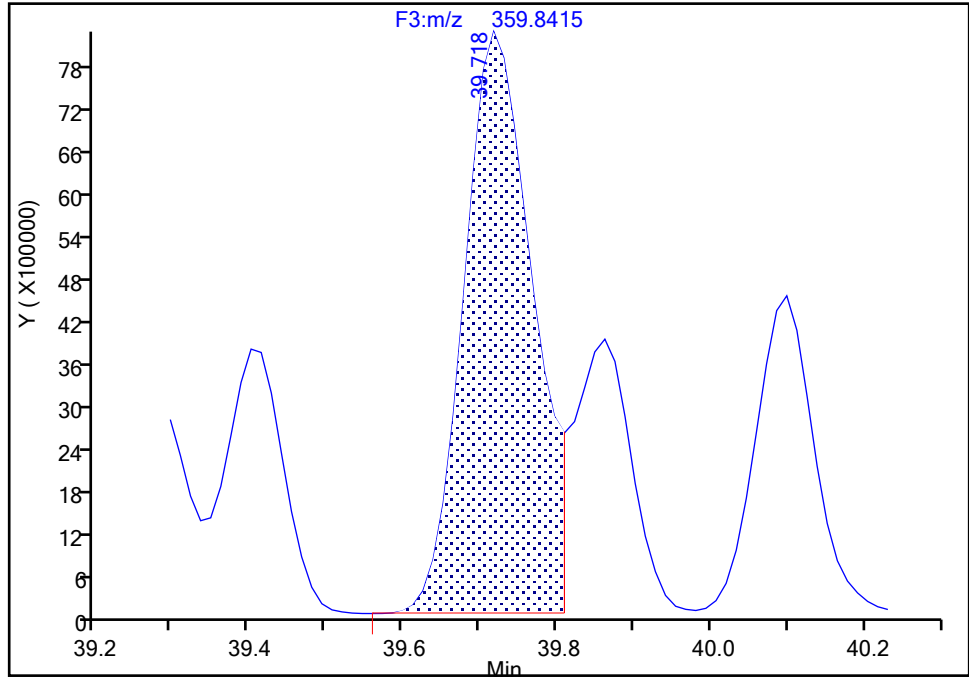
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

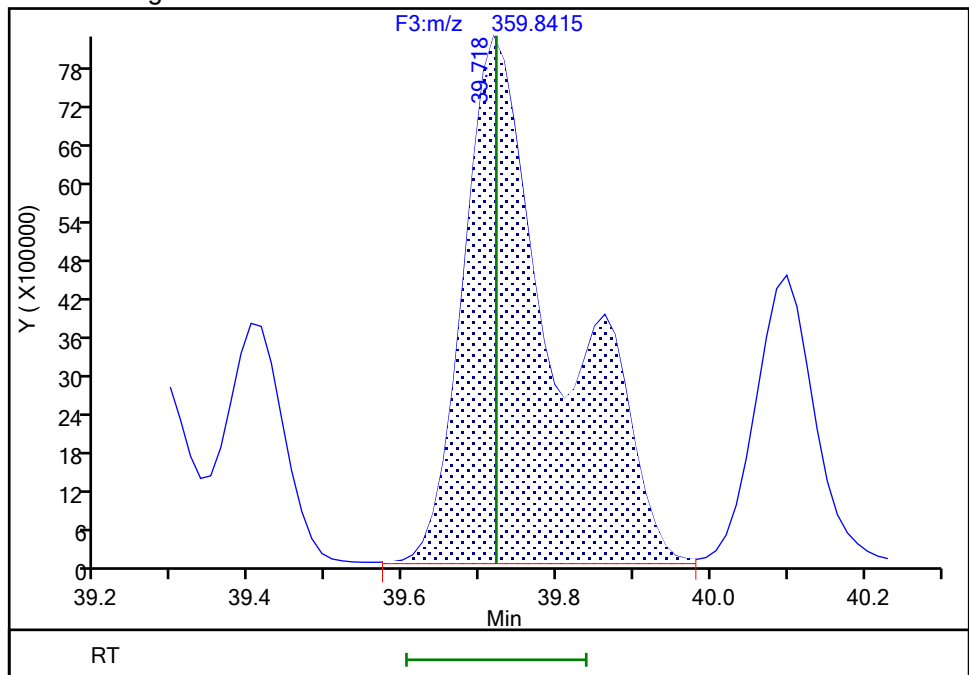
RT: 39.72
Area: 51062148
Amount: 1242.9142
Amount Units: pg/ul

Processing Integration Results



RT: 39.72
Area: 70852247
Amount: 1566.2464
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:00:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2095 of 3076

BASFHWC-00120240531547
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

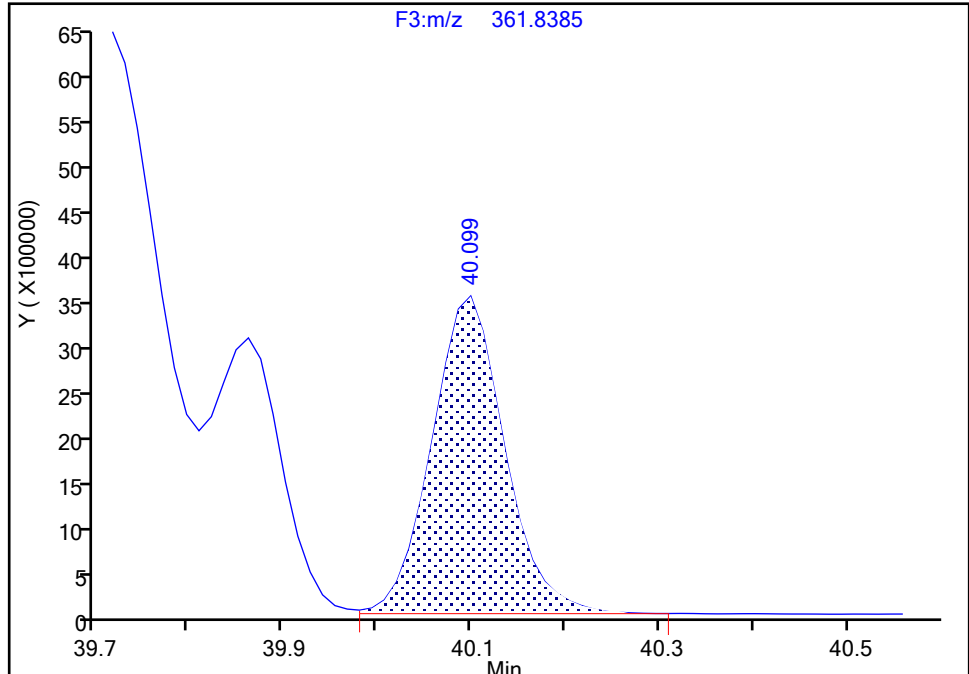
Detector F3(35.64 :49.10)

PCB-158, CAS: 74472-42-7

Signal: 2

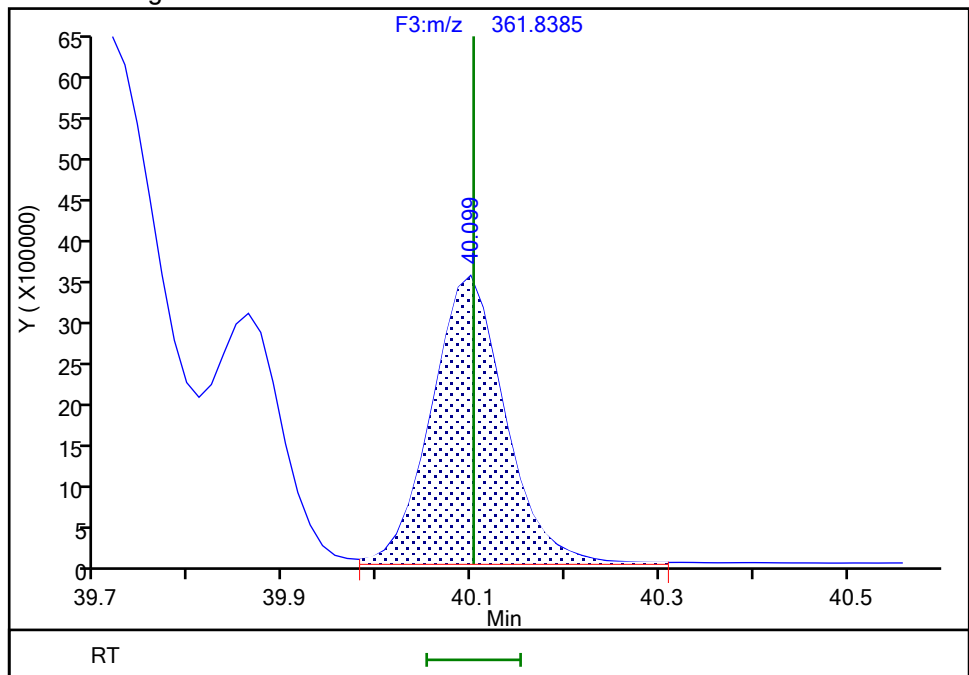
RT: 40.10
Area: 19147696
Amount: 385.2197
Amount Units: pg/ul

Processing Integration Results



RT: 40.10
Area: 19147696
Amount: 386.1452
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

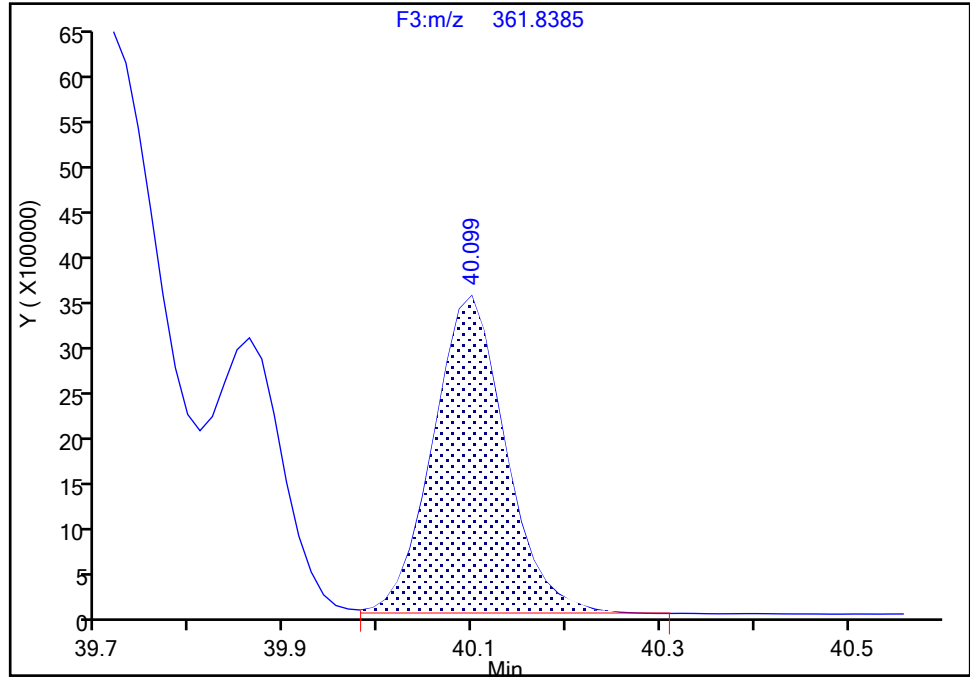
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-158, CAS: 74472-42-7

Signal: 3

RT: 40.10
Area: 43296990
Amount: 385.2197
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 40.10
Area: 43420955
Amount: 386.1452
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:01:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

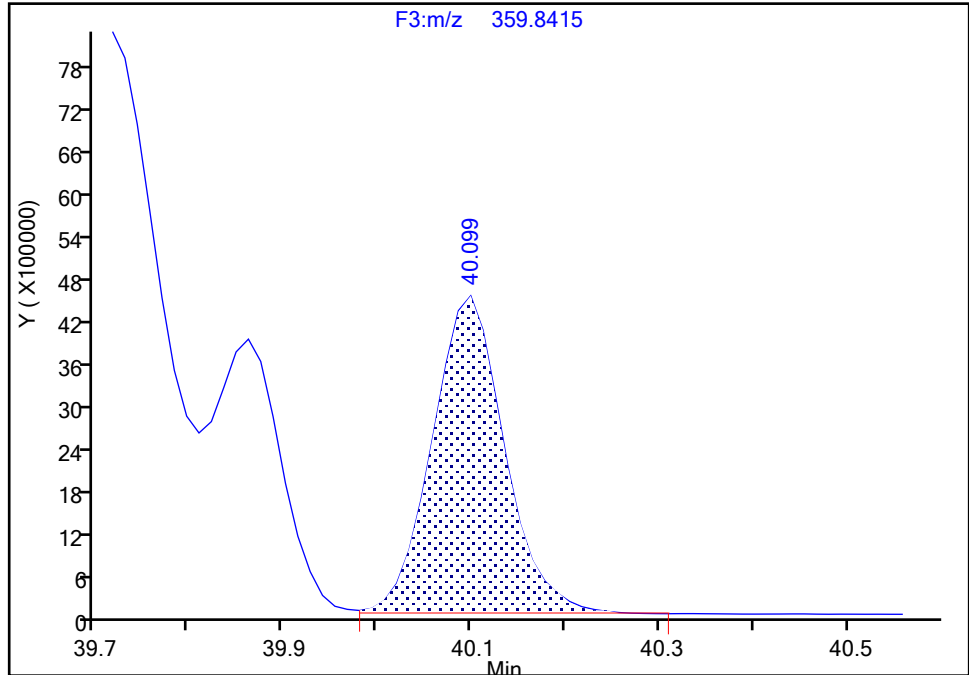
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-158, CAS: 74472-42-7

Signal: 1

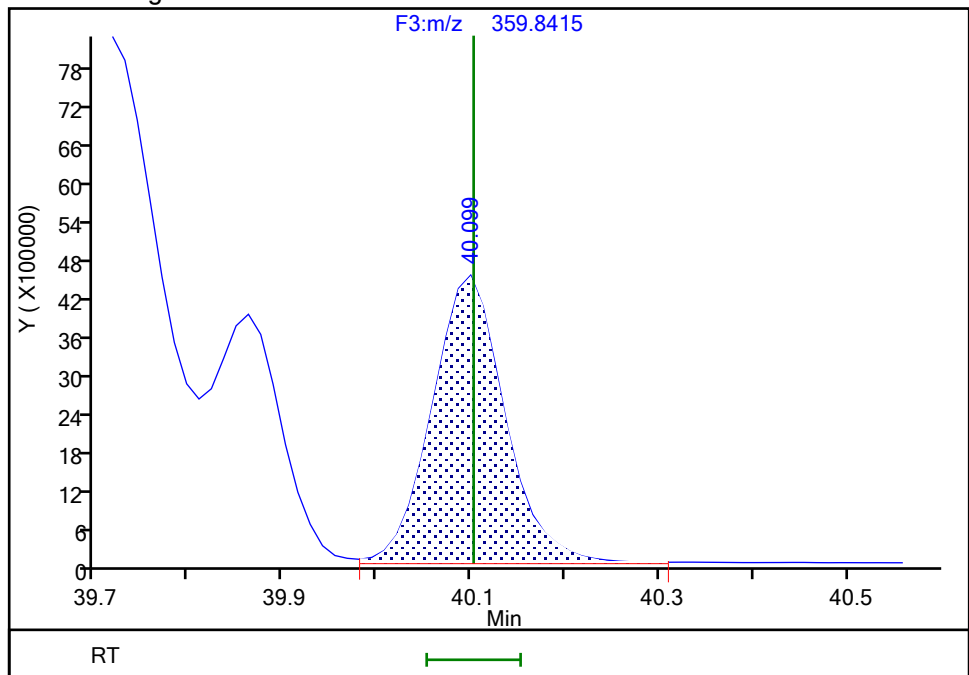
RT: 40.10
Area: 24149294
Amount: 385.2197
Amount Units: pg/ul

Processing Integration Results



RT: 40.10
Area: 24273259
Amount: 386.1452
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:11 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

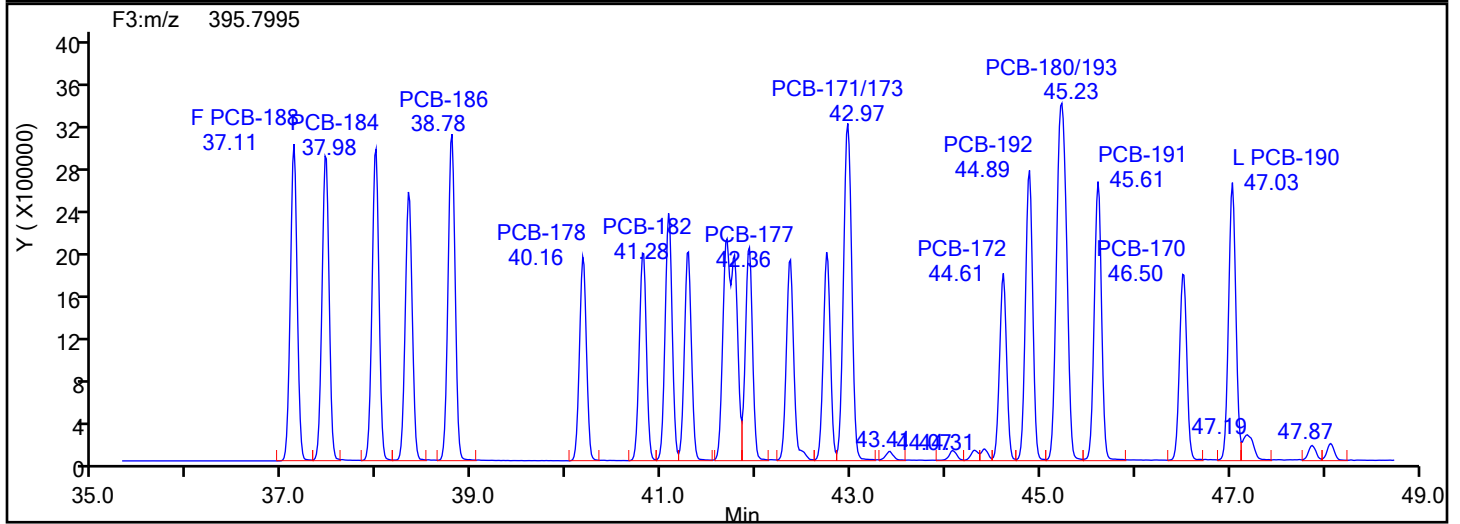
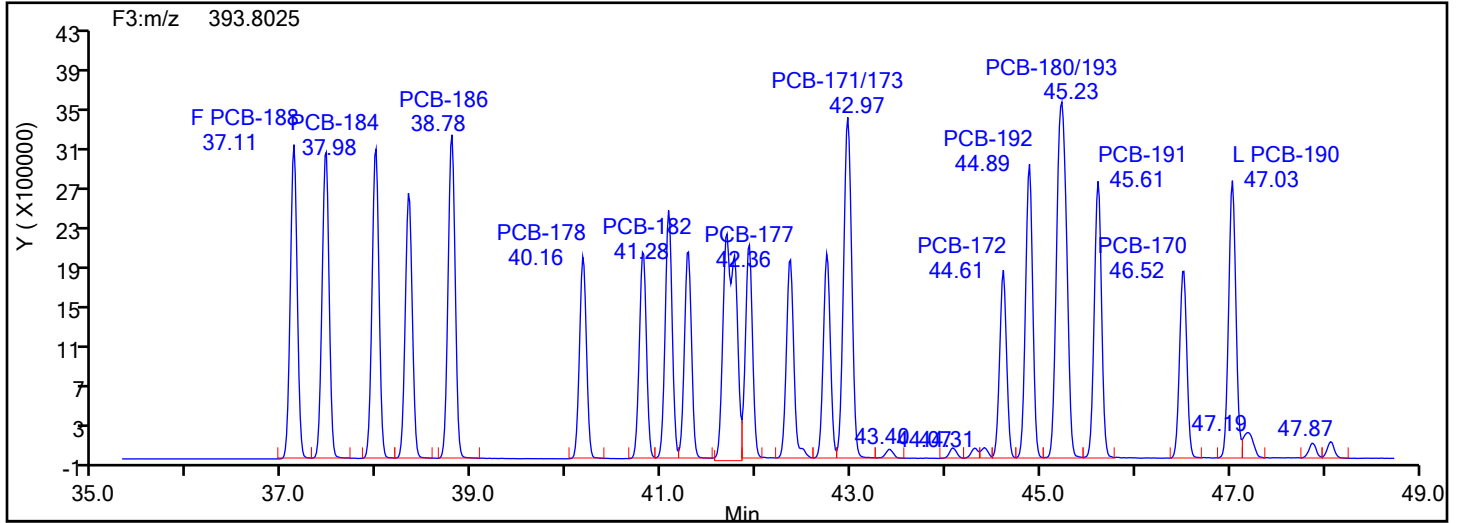
Worklist#: 87130

Sample Line#: 5

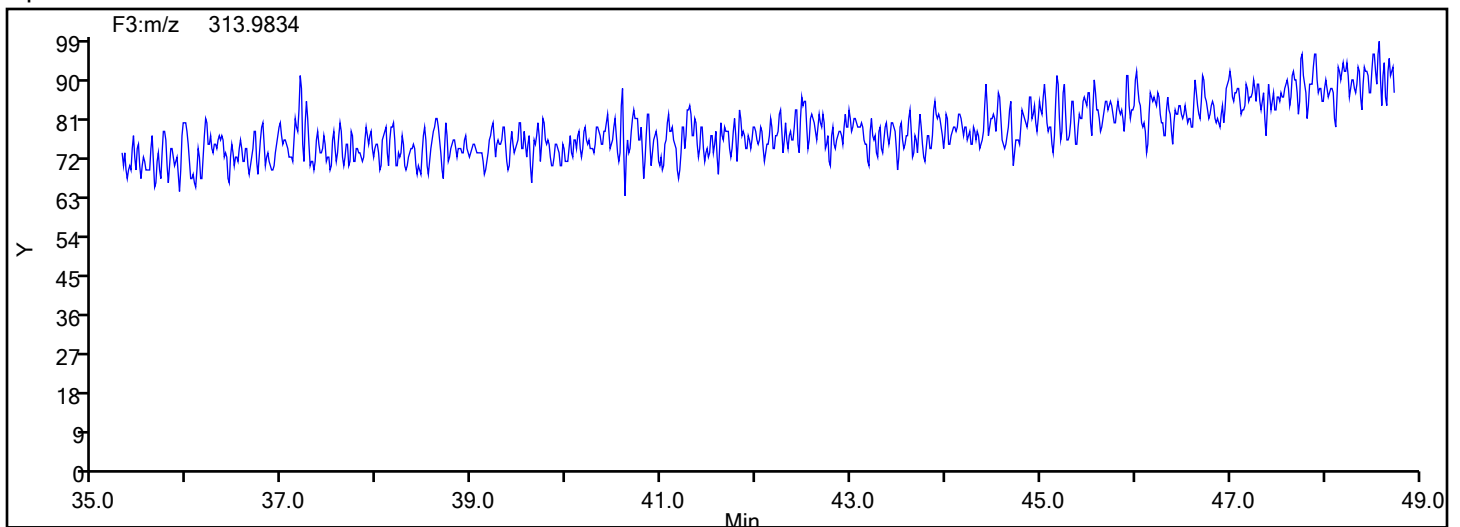
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

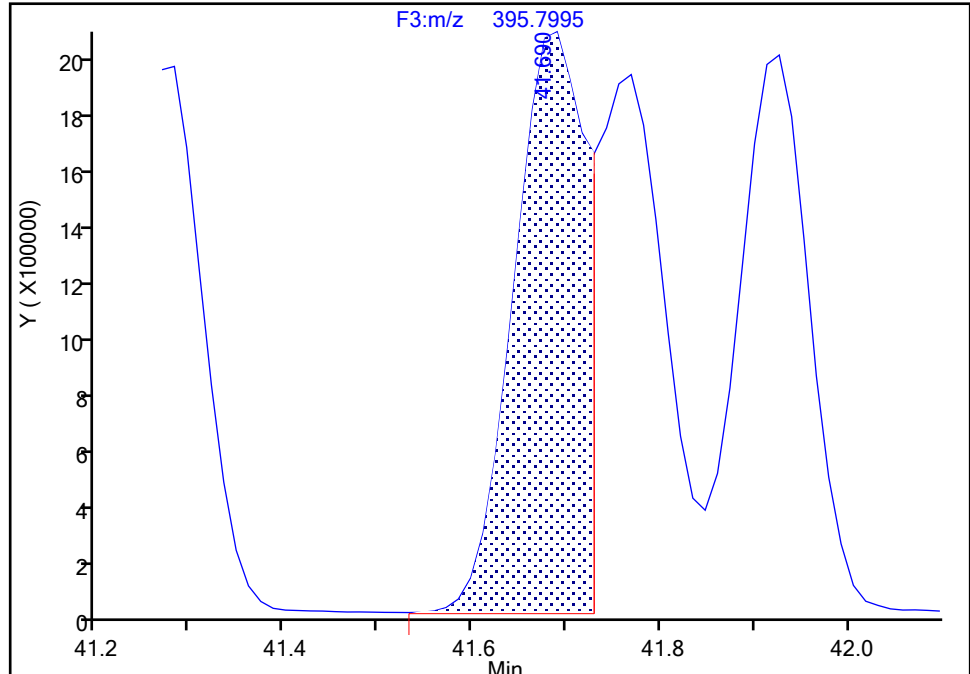
Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

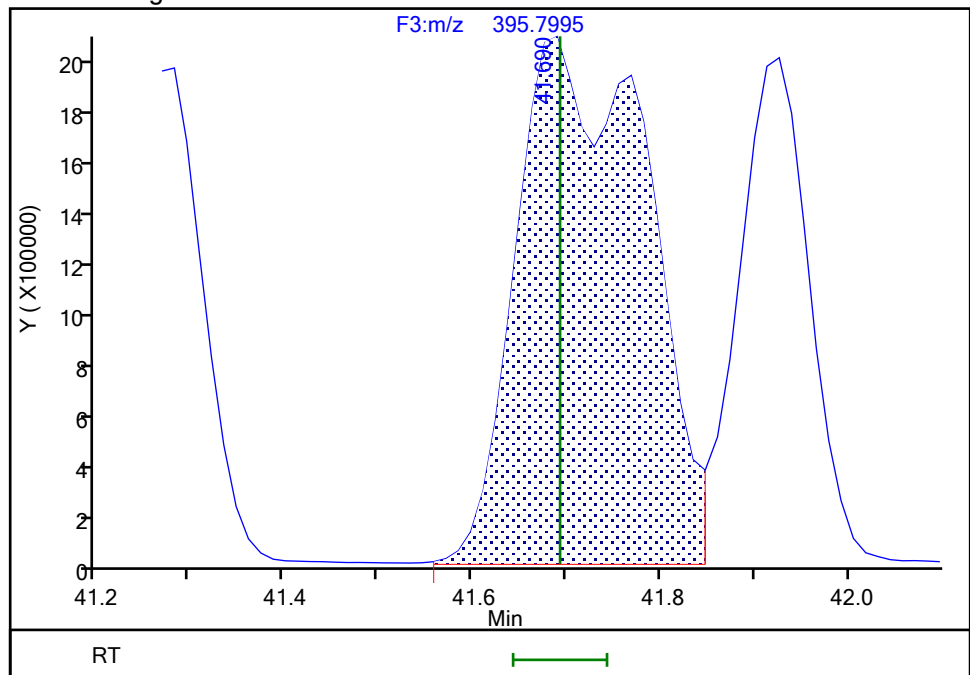
RT: 41.69
Area: 10997351
Amount: 473.7894
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 20232904
Amount: 747.8180
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

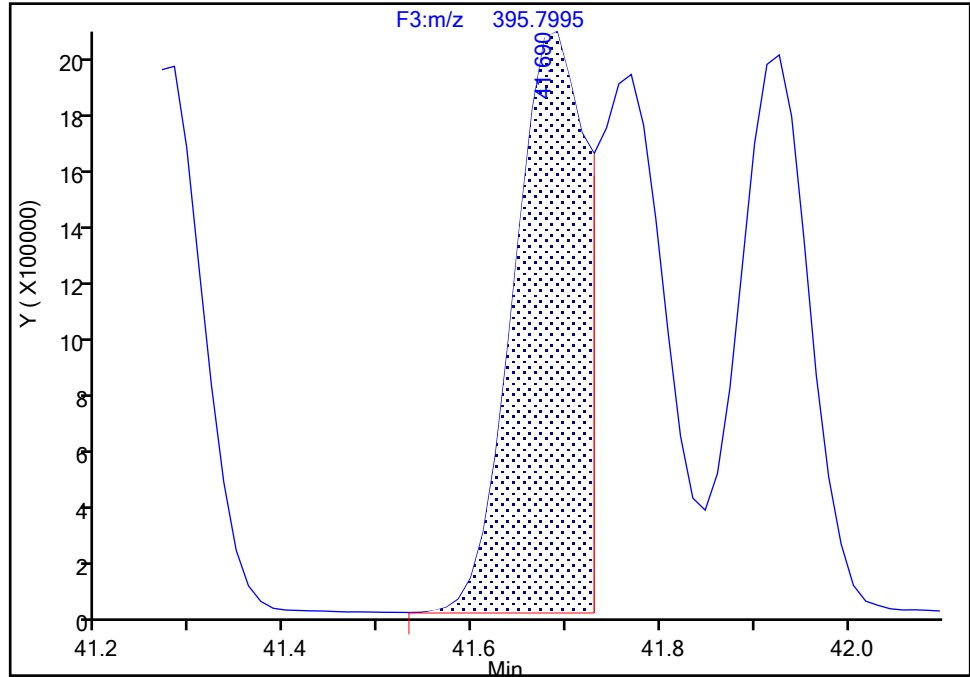
Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

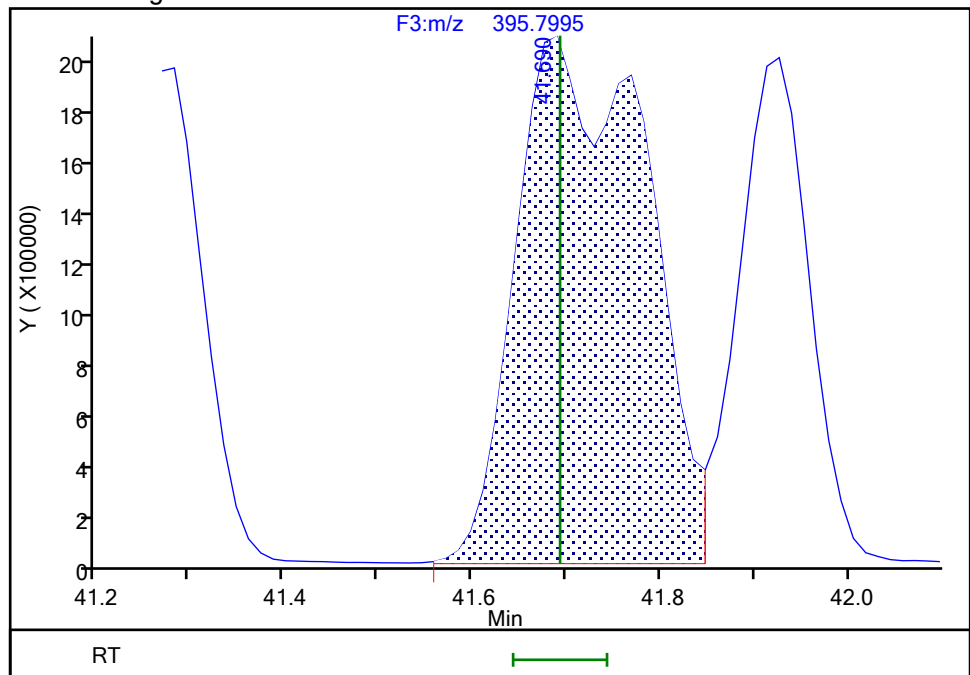
RT: 41.69
Area: 10997351
Amount: 473.7894
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 20232904
Amount: 747.8180
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:55 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

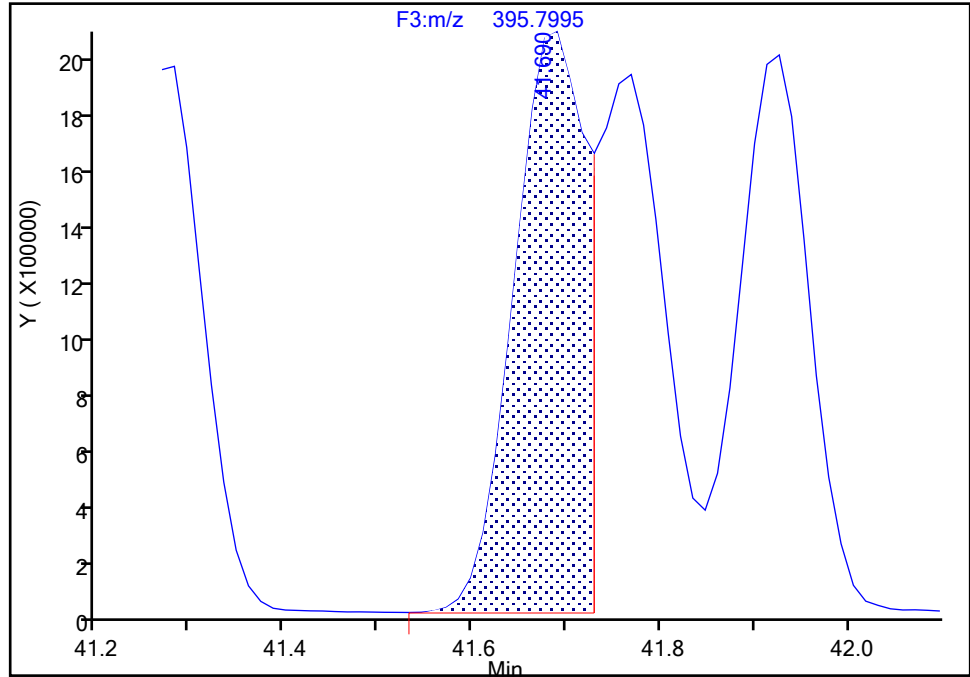
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 3

RT: 41.69
Area: 22664276
Amount: 473.7894
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 41.69
Area: 41853835
Amount: 747.8180
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:01:55 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Detector F3(35.64 :49.10)

Signal: 1

RT: 41.69
Area: 11666925
Amount: 473.7894
Amount Units: pg/ul

RT: 41.69
Area: 21620931
Amount: 747.8180
Amount Units: pg/ul

BASFHWC-Gelsma-2024-03556
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

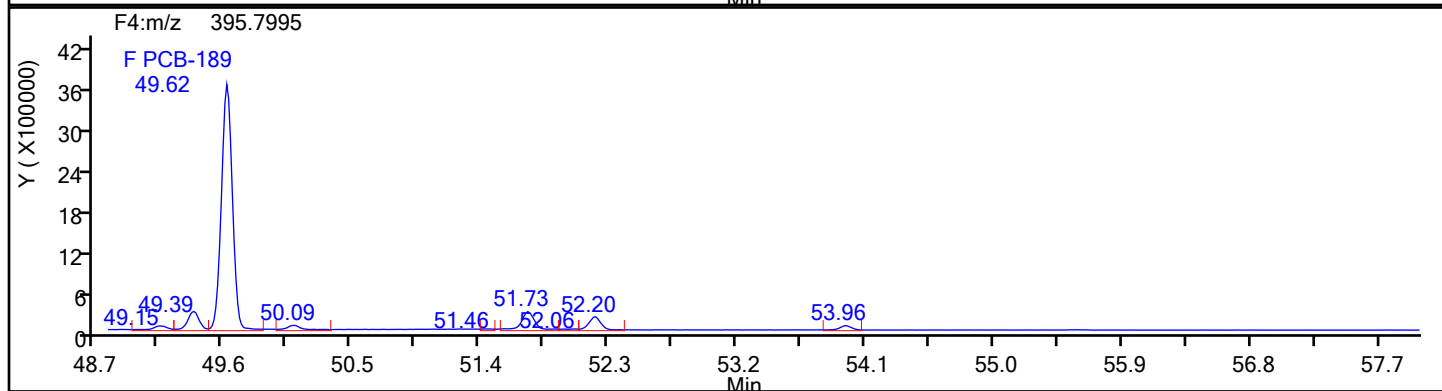
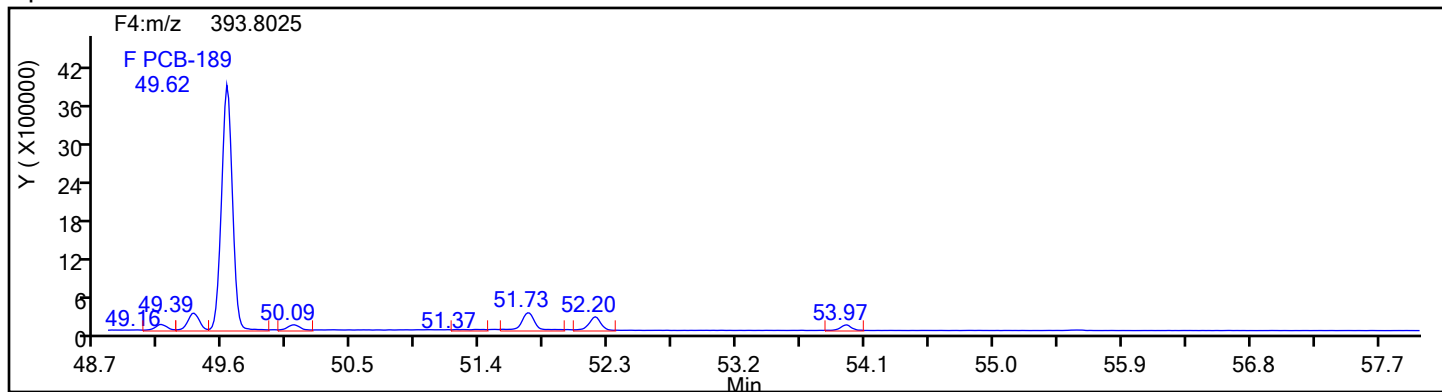
Worklist#: 87130

Sample Line#: 5

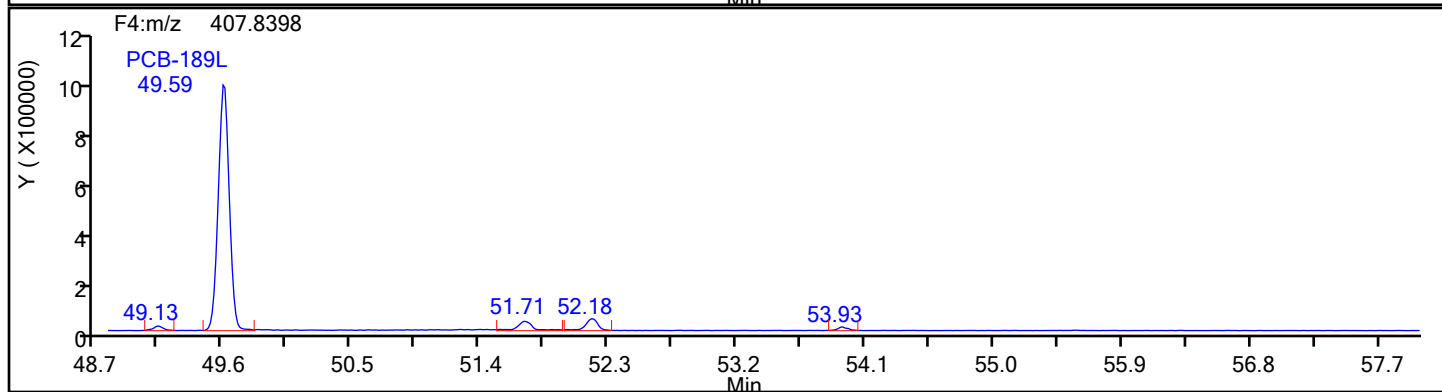
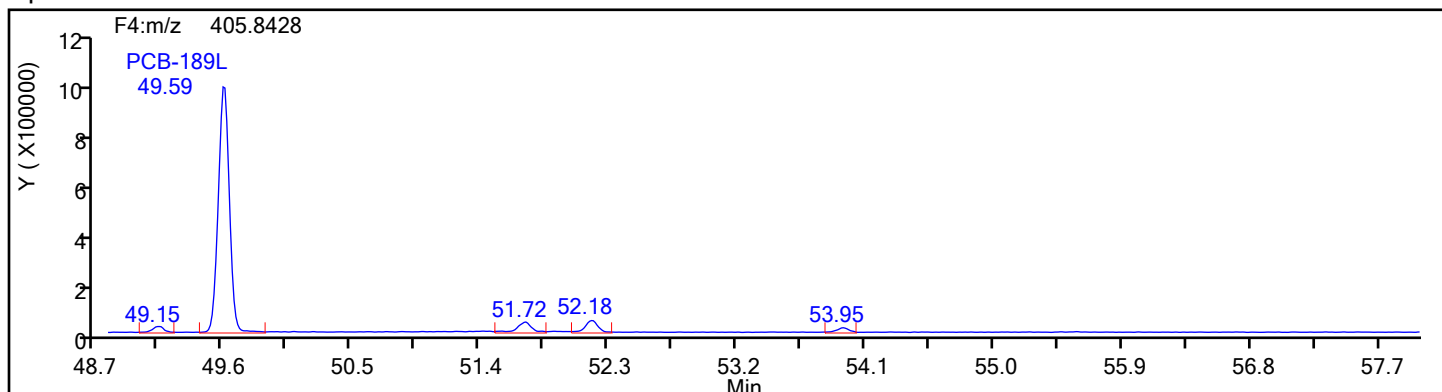
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

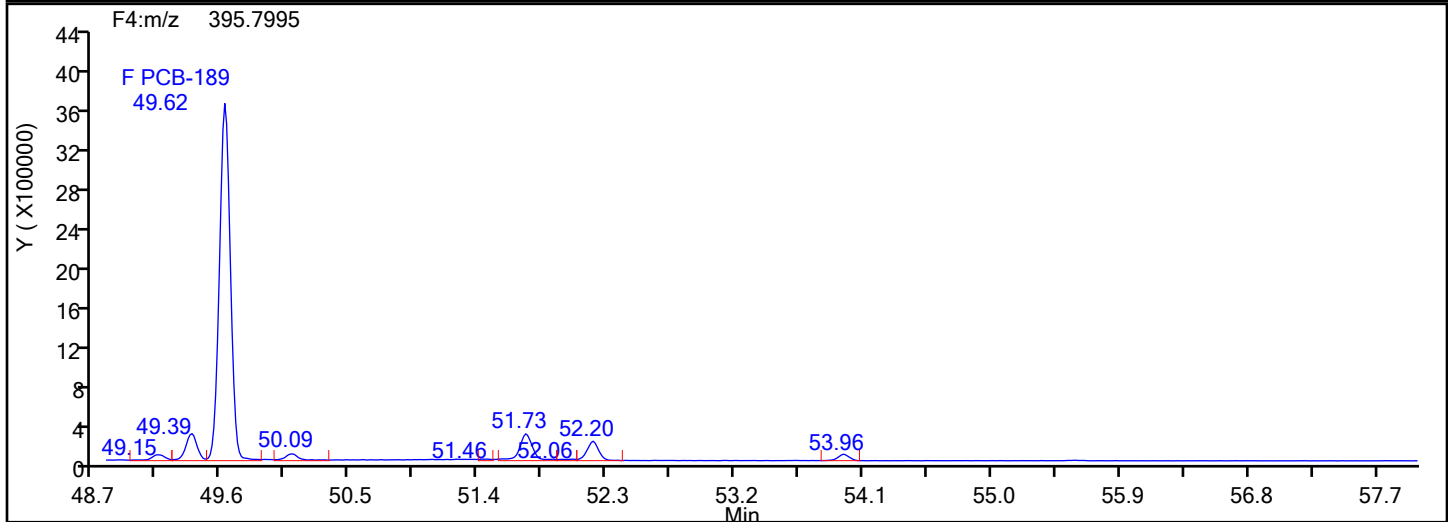
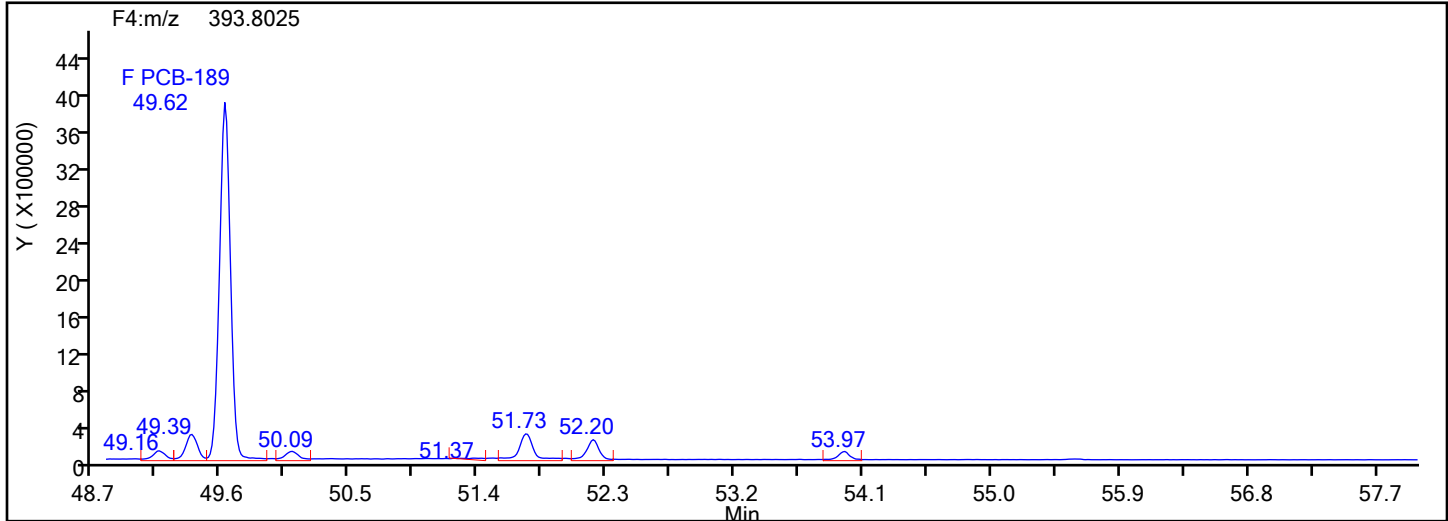
Worklist#: 87130

Sample Line#: 5

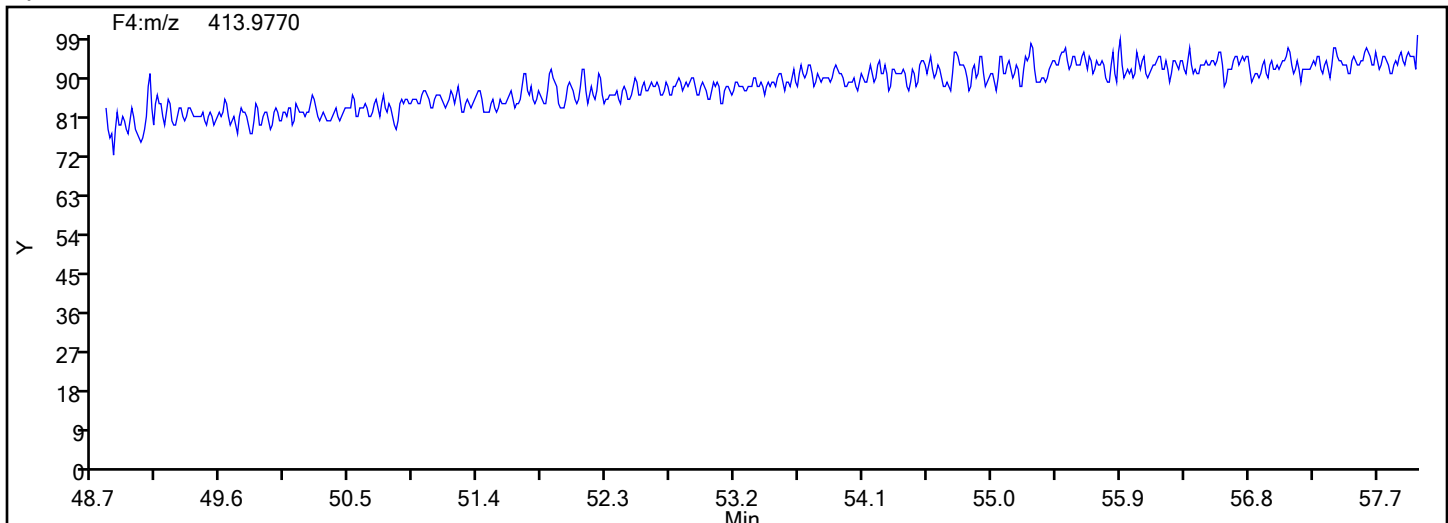
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

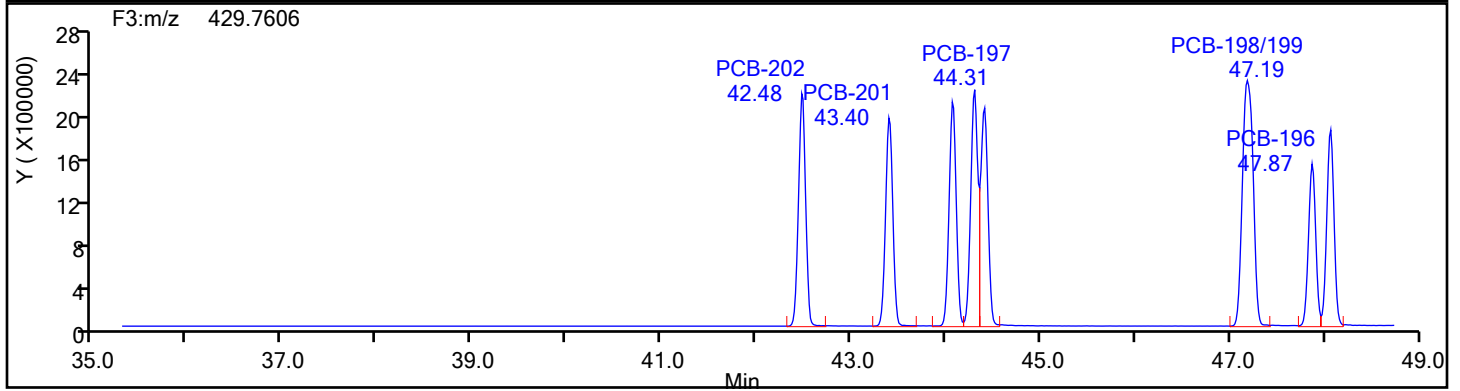
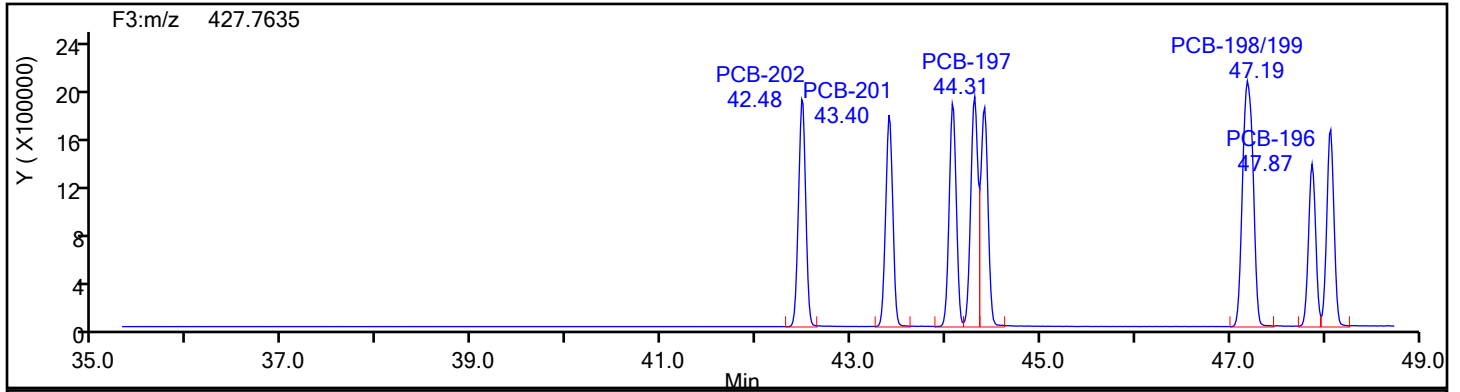
Worklist#: 87130

Sample Line#: 5

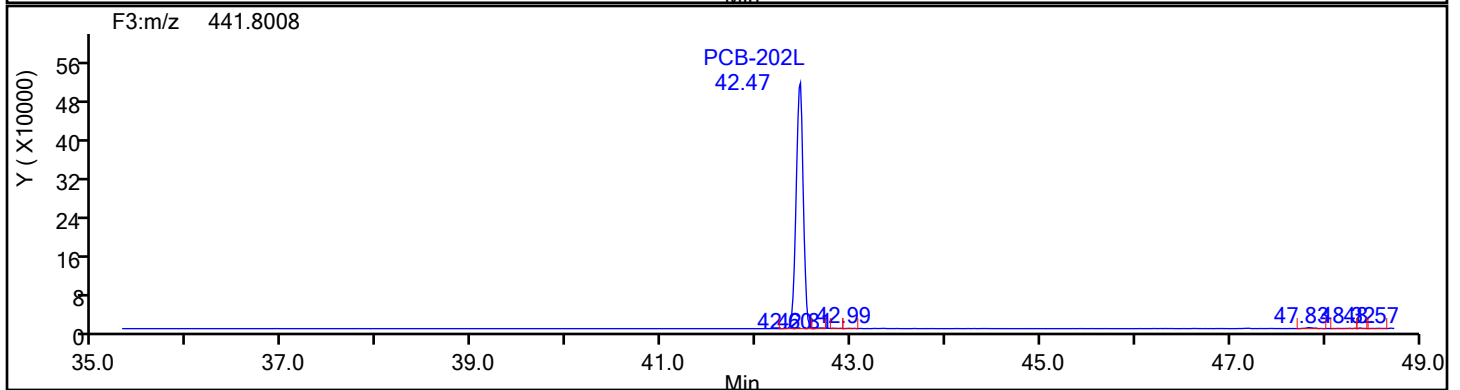
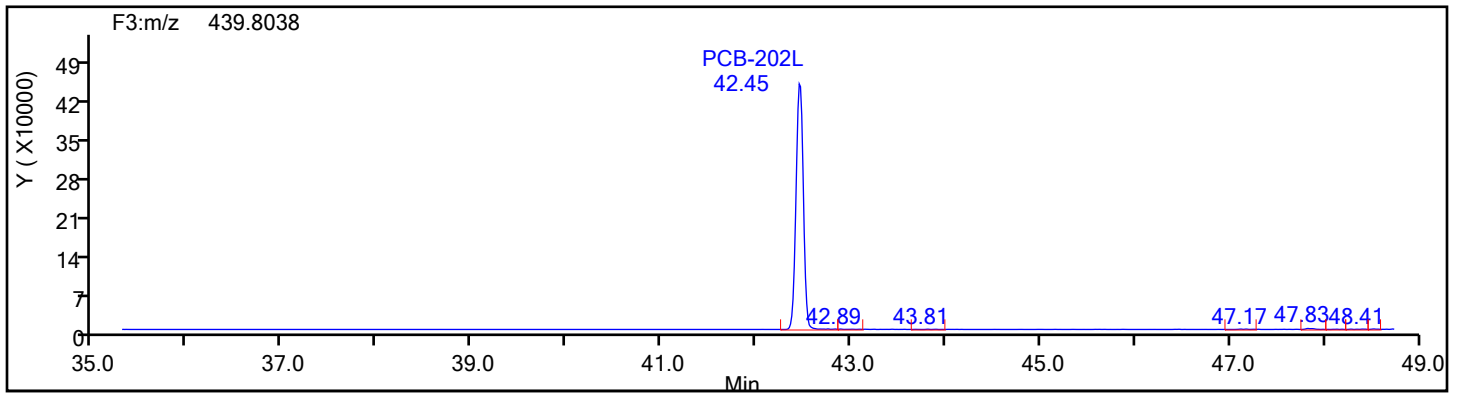
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

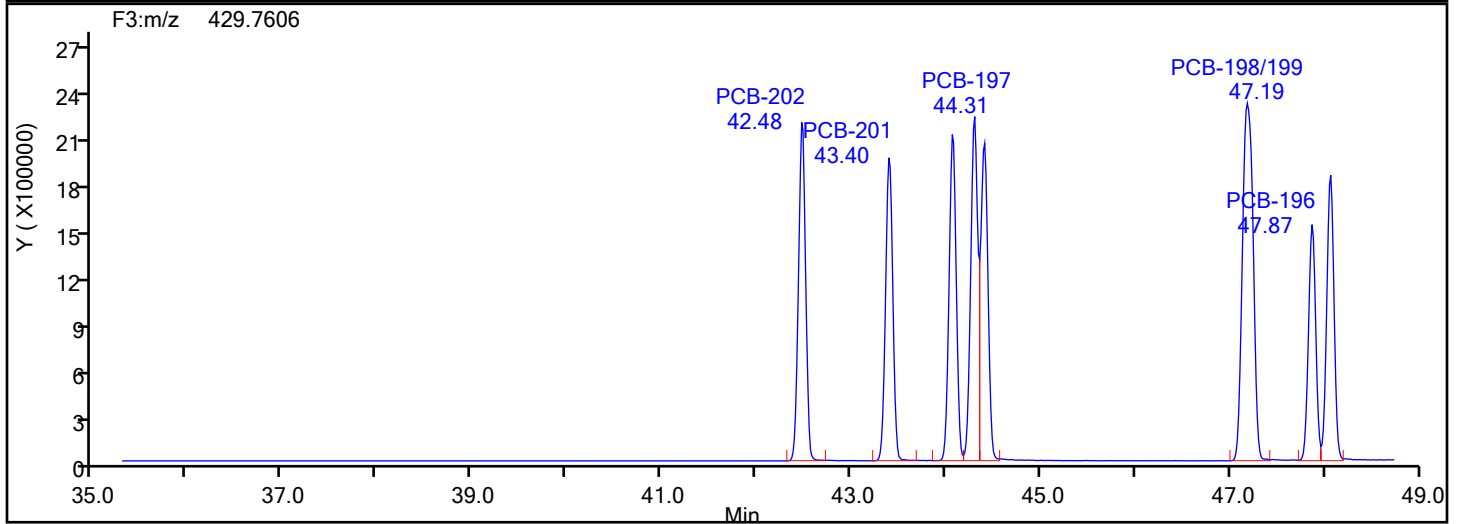
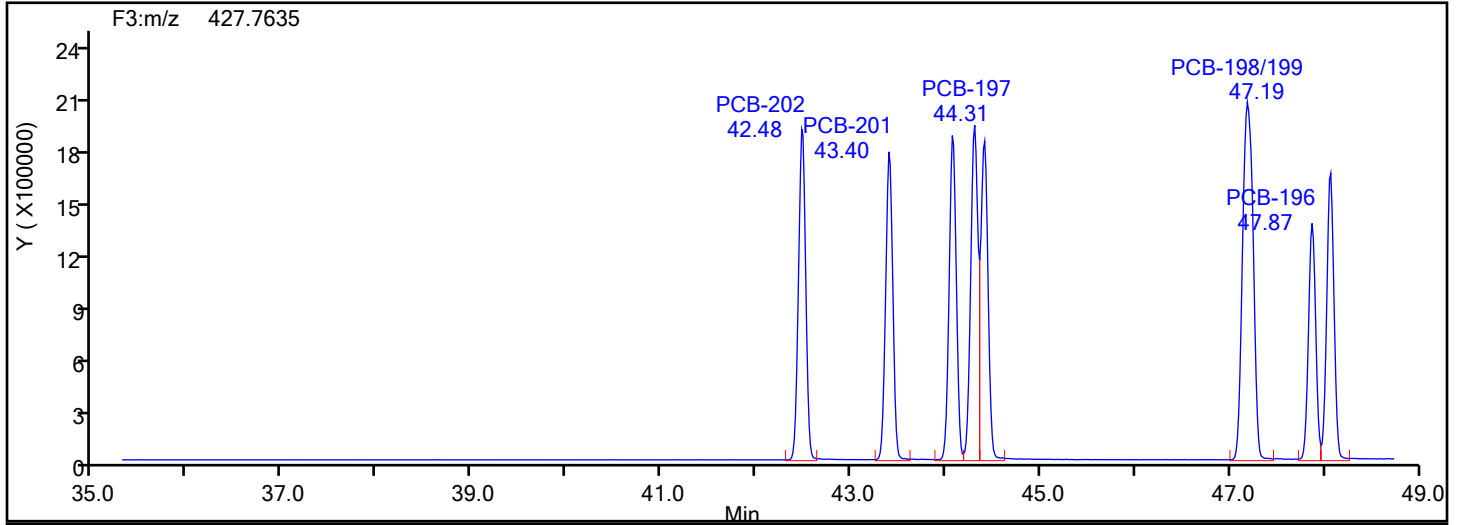


OcPCB F3 Standards

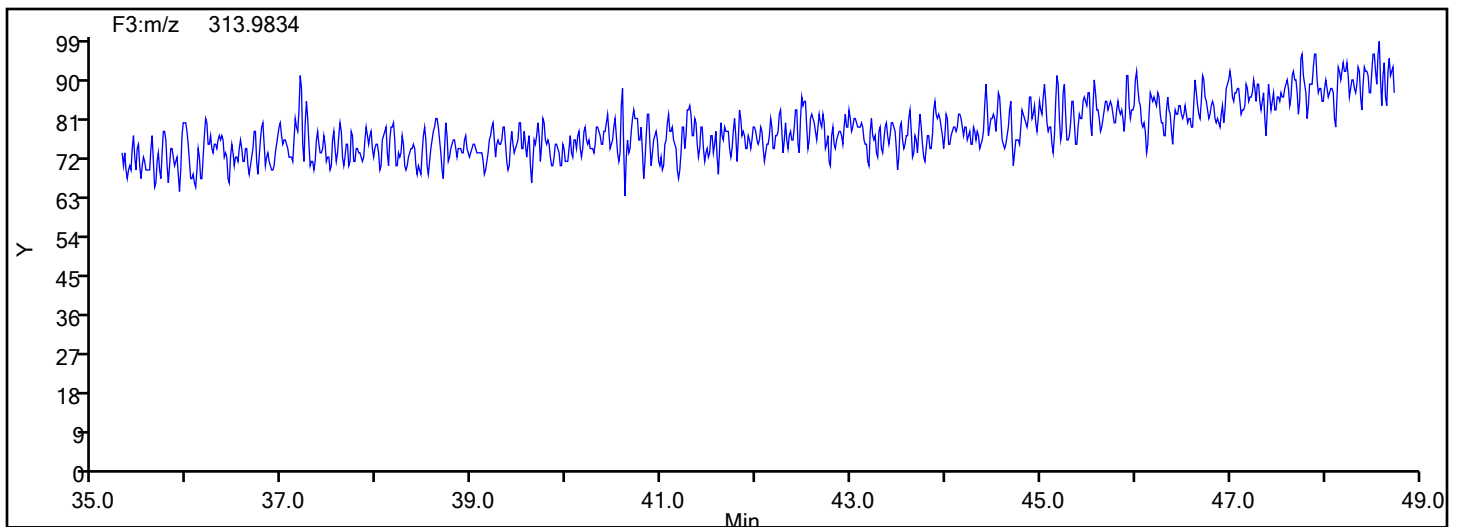


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 5
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

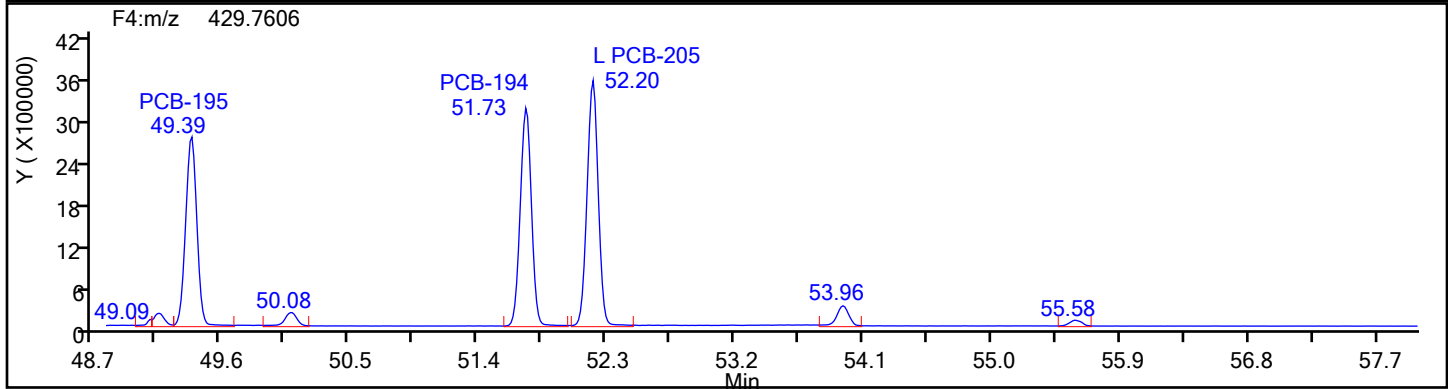
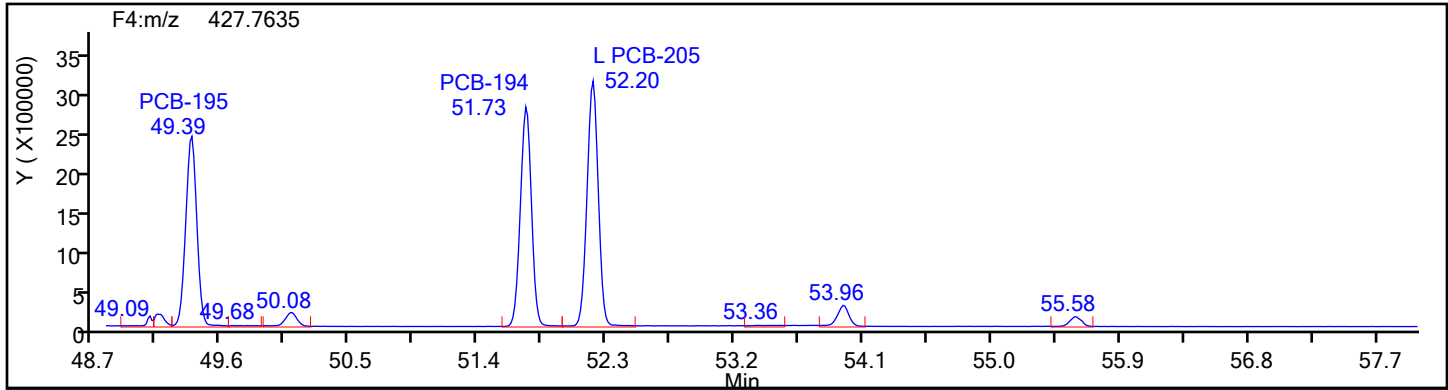
Worklist#: 87130

Sample Line#: 5

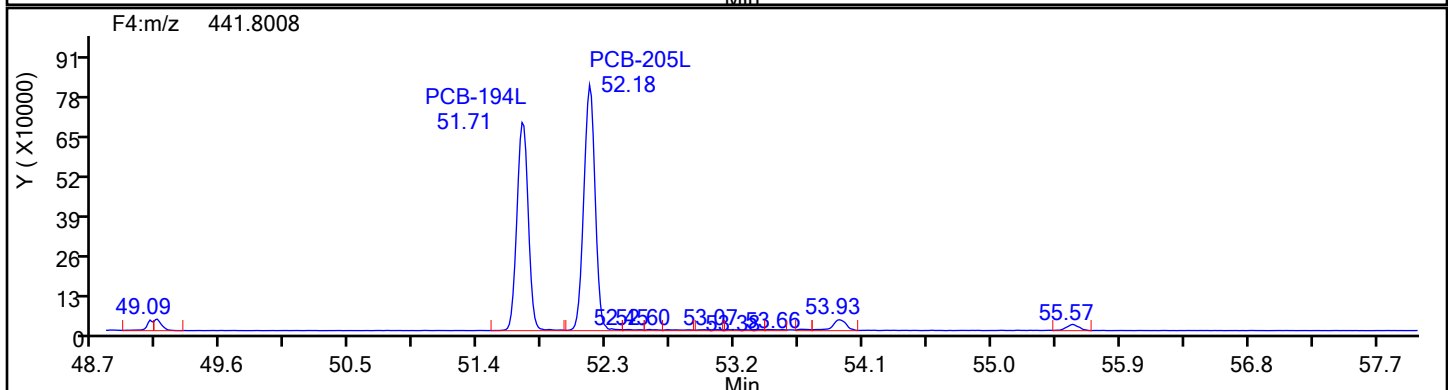
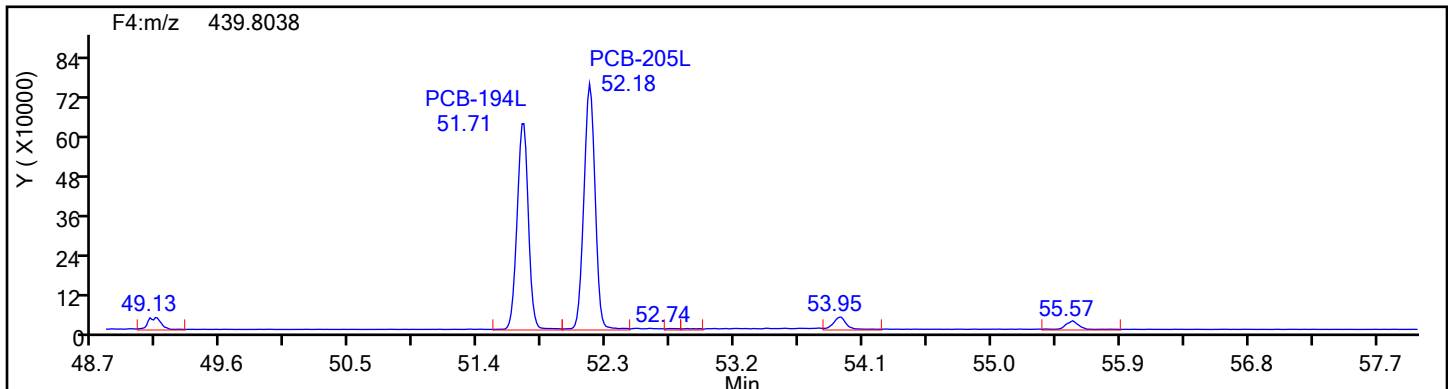
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

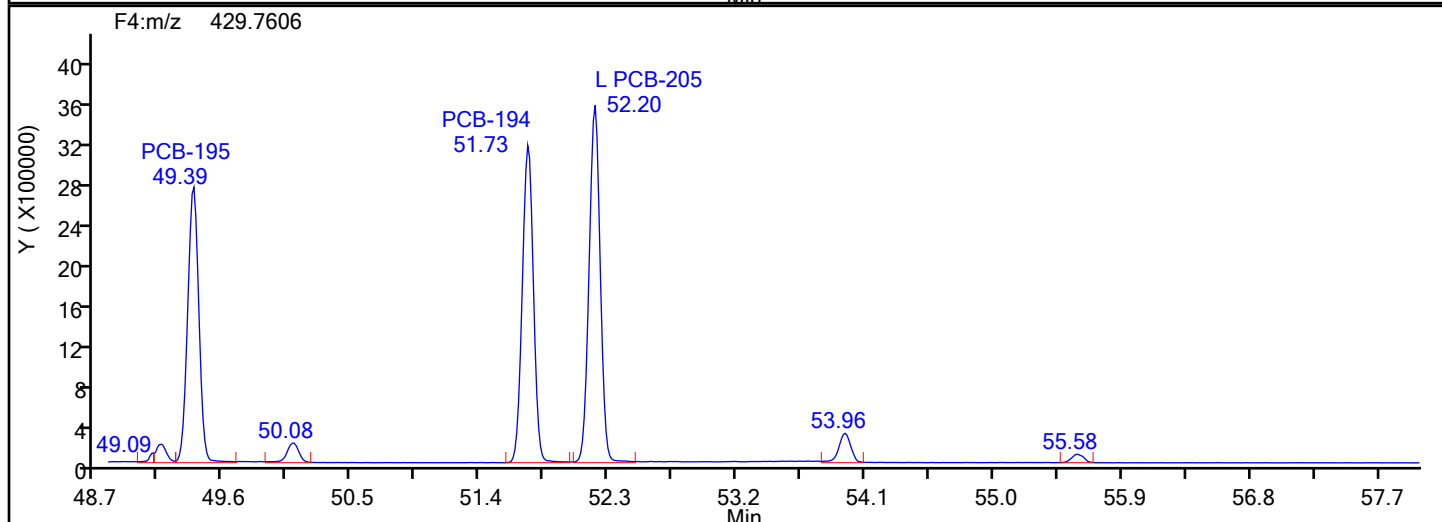
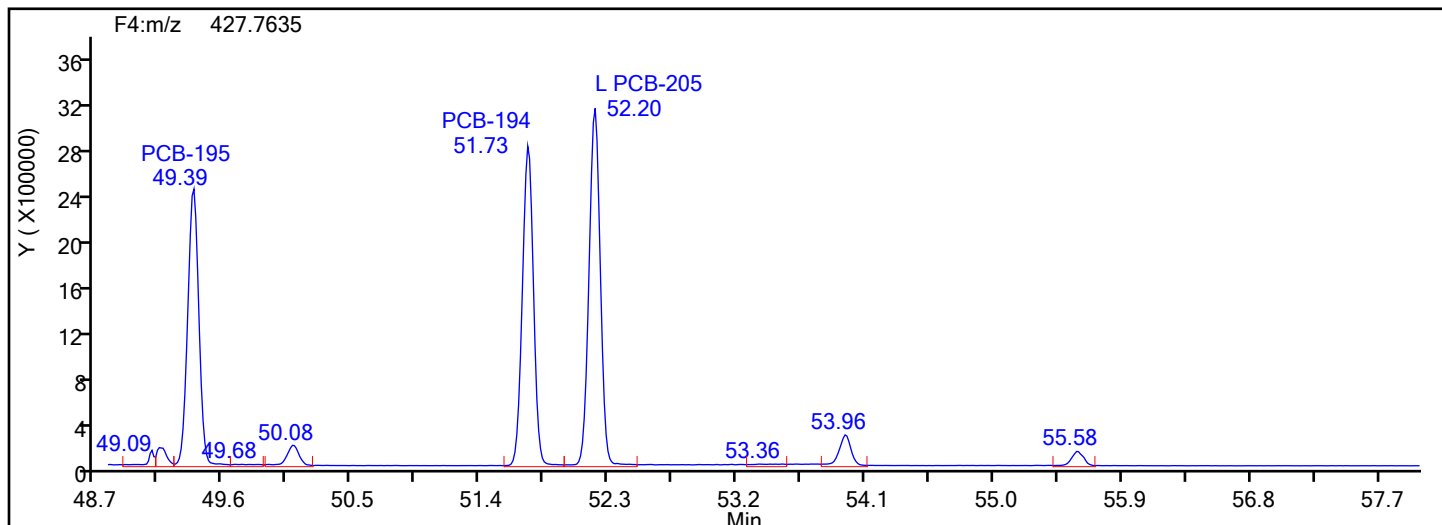
Worklist#: 87130

Sample Line#: 5

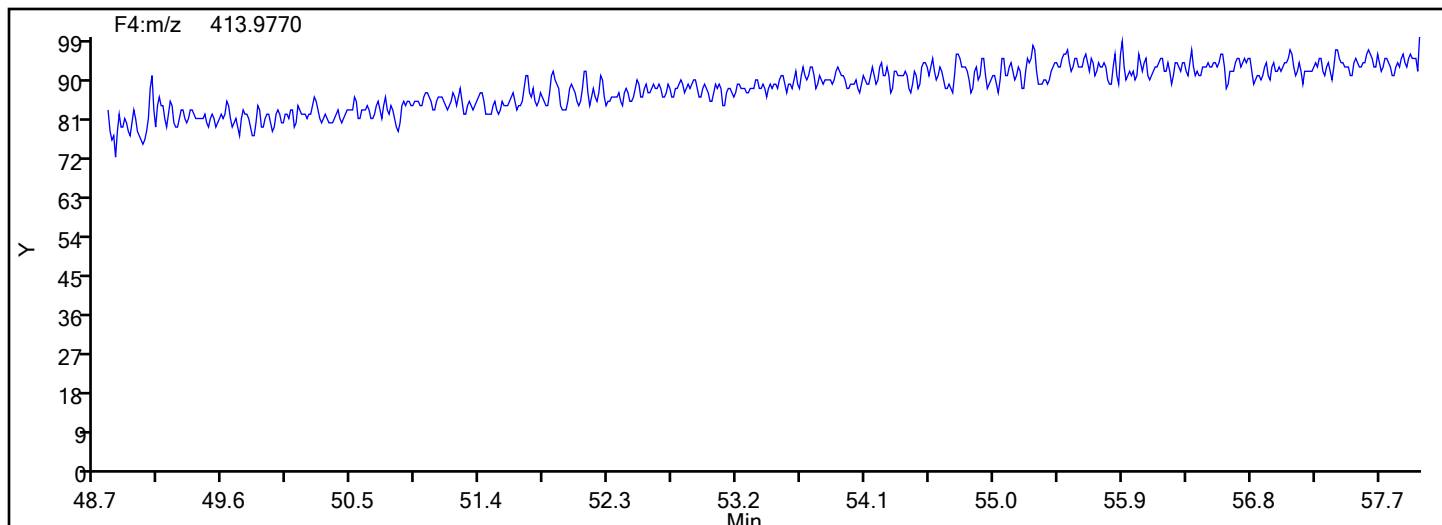
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

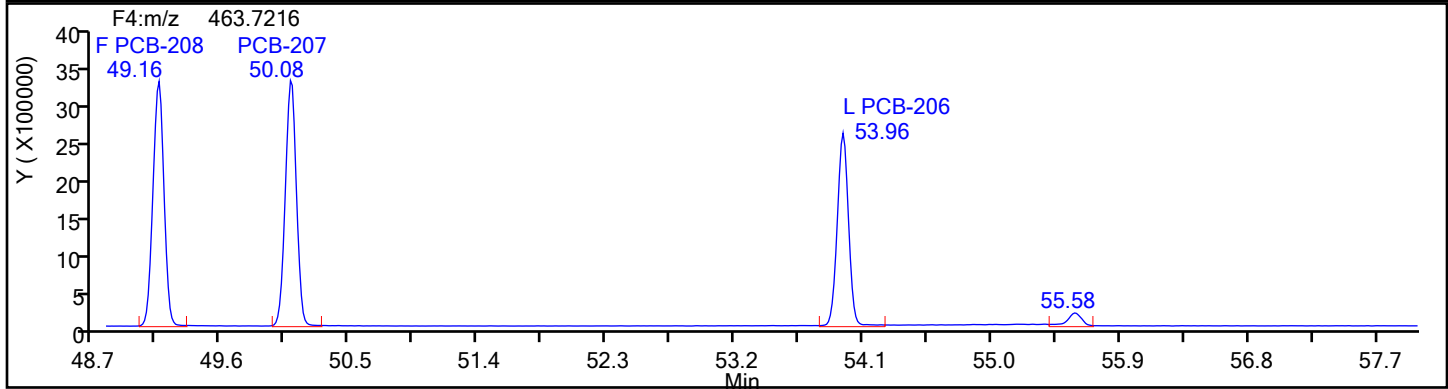
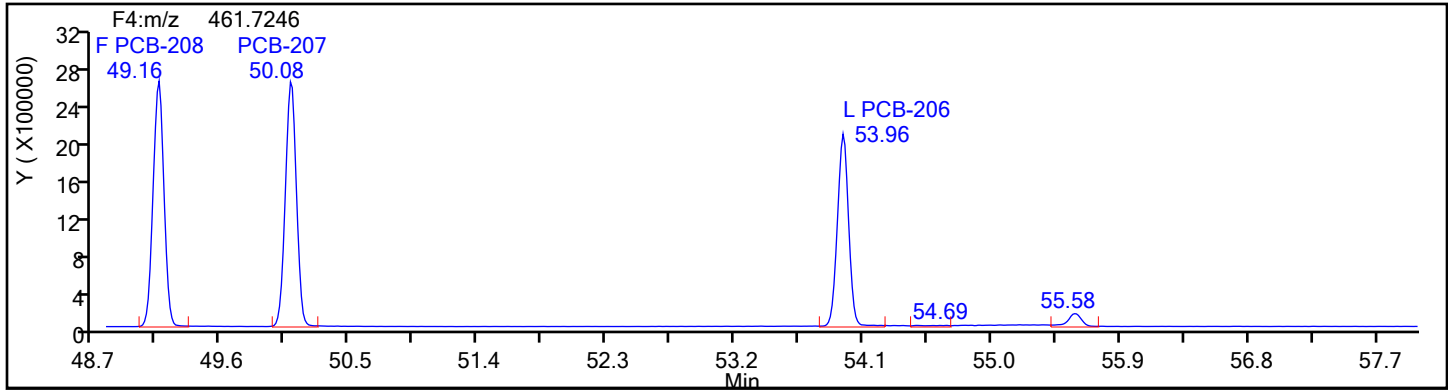


OcPCB F4 Lock Mass

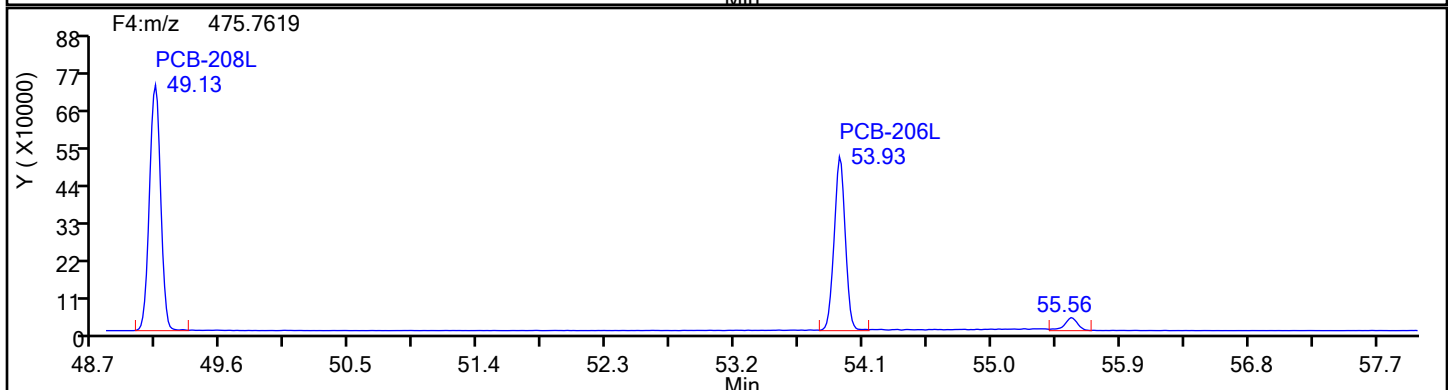
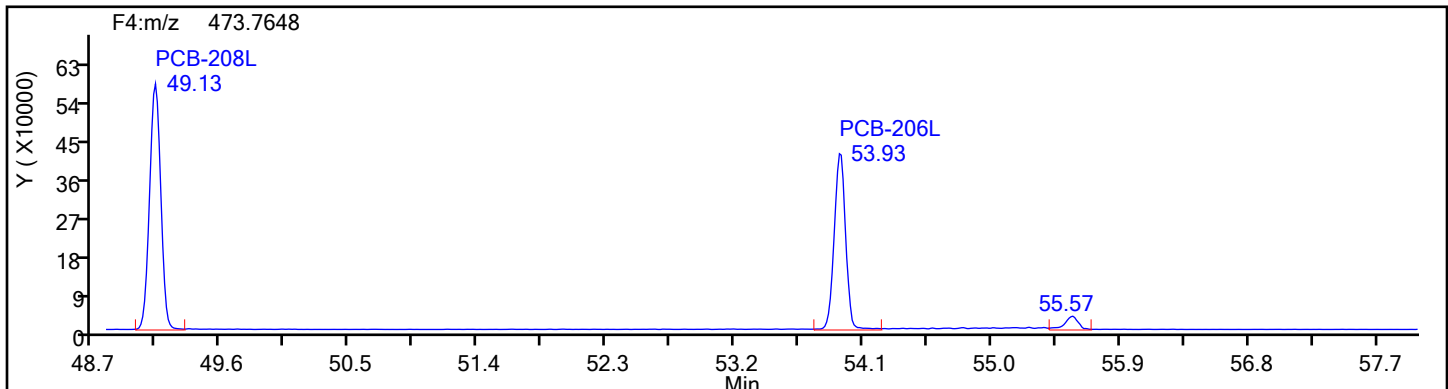


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 5
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

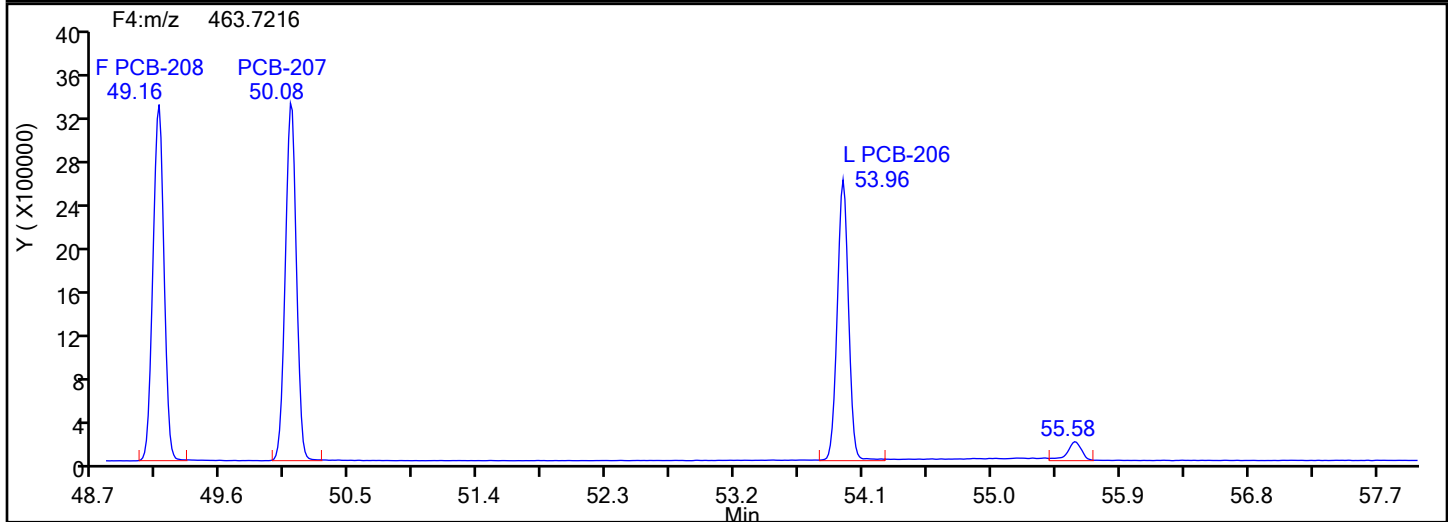
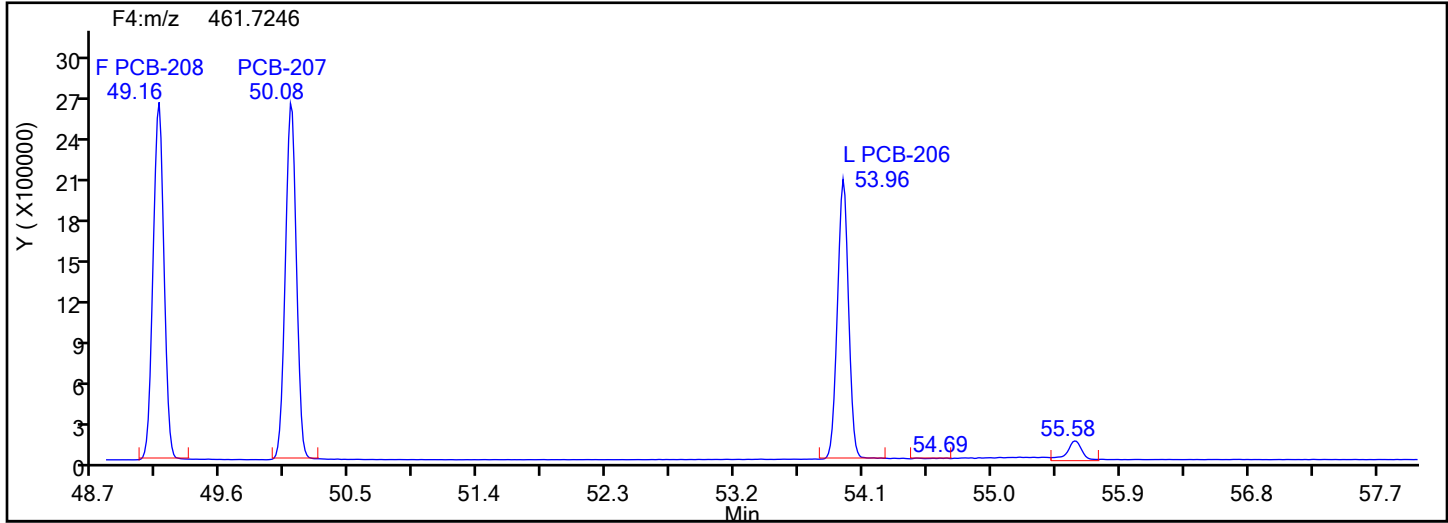
Worklist#: 87130

Sample Line#: 5

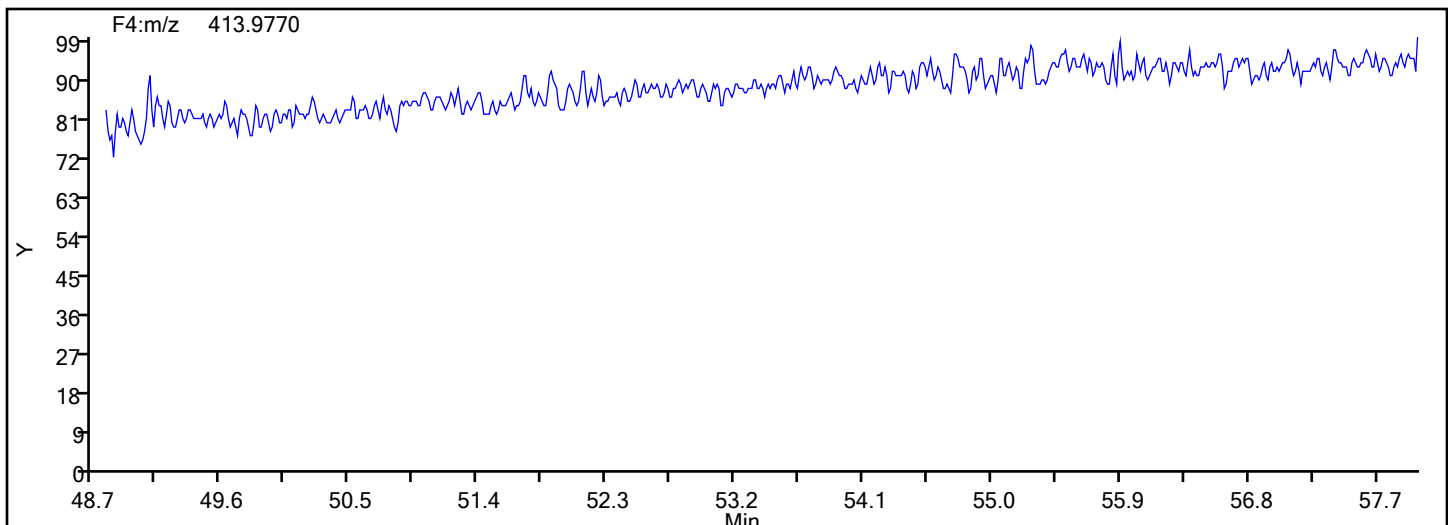
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4

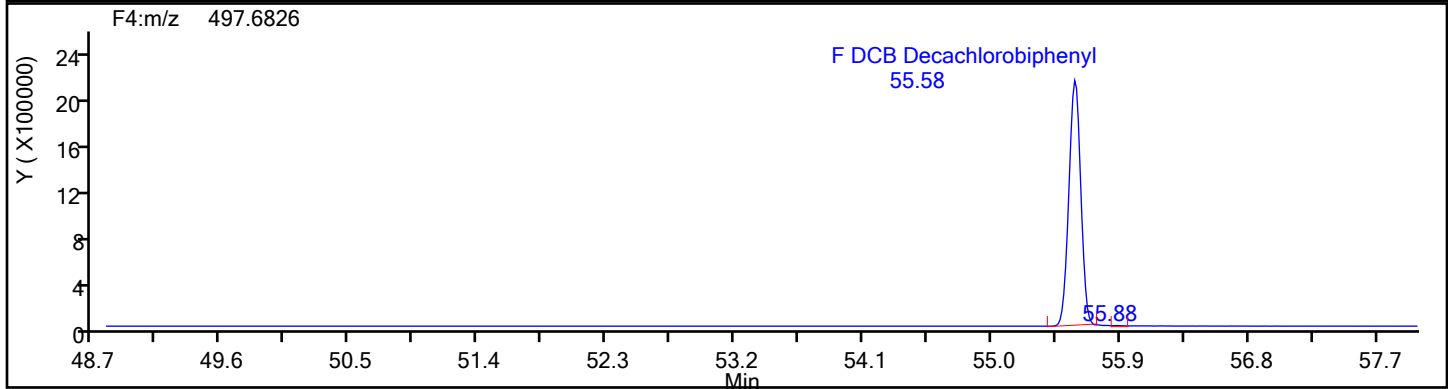
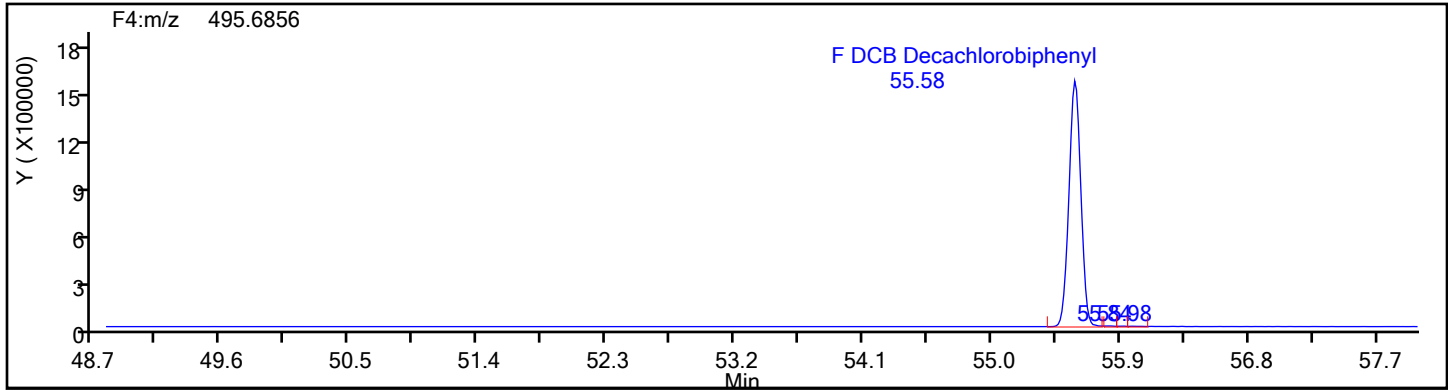


NoPCB F4 Lock Mass

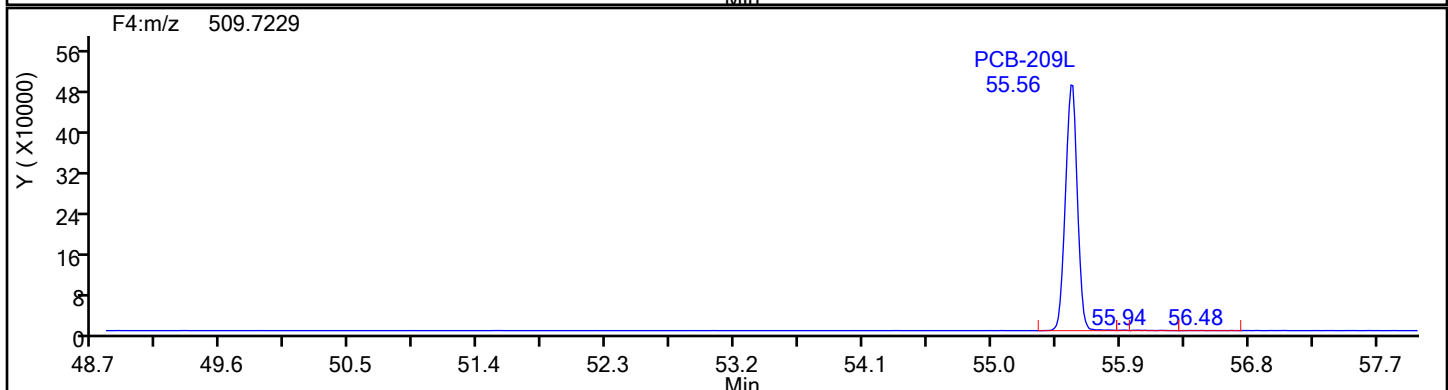
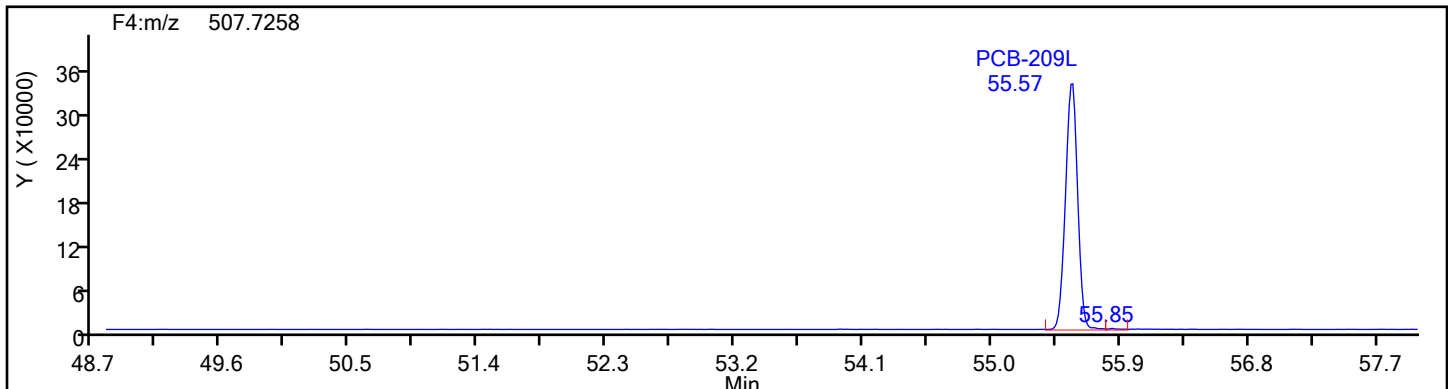


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 5
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

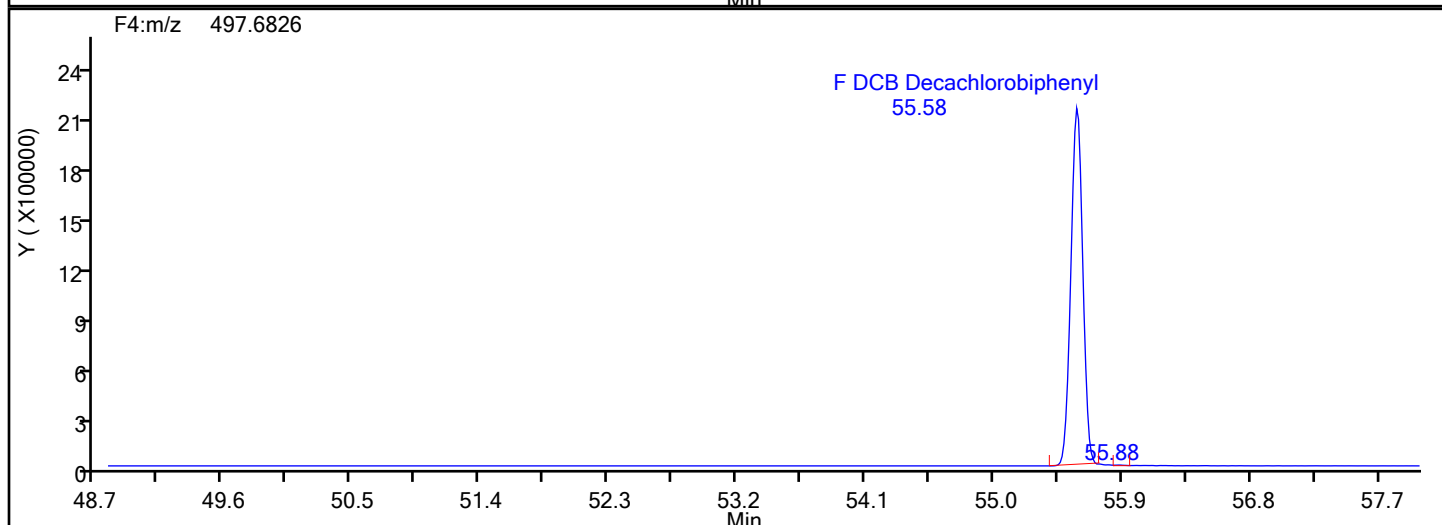
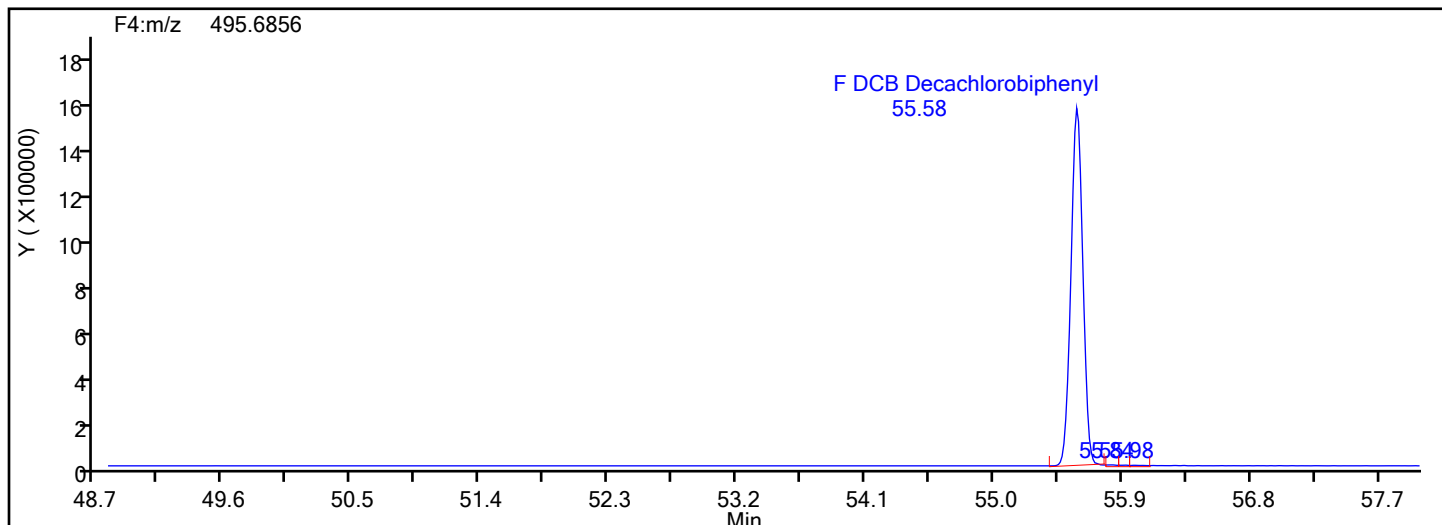
Worklist#: 87130

Sample Line#: 5

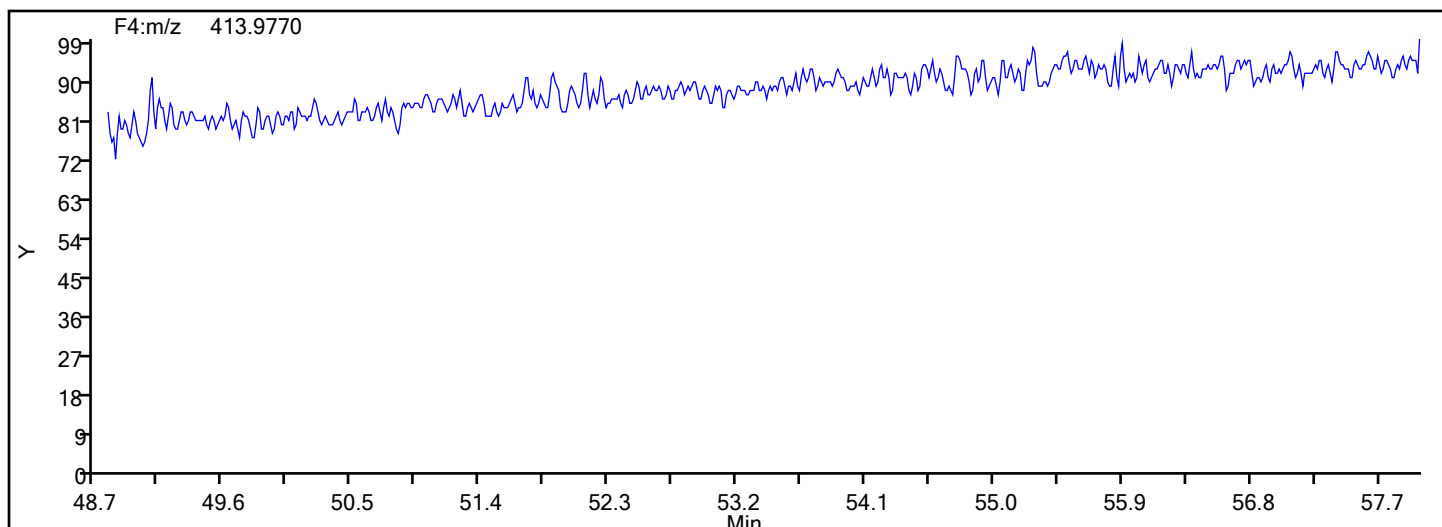
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-May-2024 21:13:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-006
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:25:39 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 04-Jun-2024 14:25:39

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					6050.2	5949.6	4.701	4.701		RQ
D PCB-1L	11:34	14103562	3.21	1.6108	98.8	98.8	0.2774	0.2774	98.76	
D PCB-3L	13:43	14397062	3.23	1.5891	102.2	102.2	0.2812	0.2812	102	
PCB-1	11:35	309510797	3.13	1.2191	1900.7	1800.1	4.344	4.344	95.03	RQ
PCB-2	13:34	353084495	2.92	1.1805	2098.9	2098.9	4.790	4.790	105	
PCB-3	13:44	360356023	2.98	1.2206	2050.6	2050.6	4.970	4.970	103	
S Total Dichlorobiphenyls					25569	25569	0.0304	0.0304		
D PCB-4L	13:59	5672202	1.58	0.6475	98.8	98.8	0.1387	0.1387	98.80	
* PCB-9L	15:57	8865731	1.63		100.0	100.0				
D PCB-15L	19:52	10031243	1.62	1.0789	104.9	104.9	0.0832	0.0832	105	
PCB-4	14:00	152709290	1.62	1.2818	2100.3	2100.3	0.0384	0.0384	105	
PCB-10	14:10	219606512	1.65	1.3149	2127.2	2127.2	0.0317	0.0317	106	
PCB-9	15:58	234989711	1.65	1.4224	2104.0	2104.0	0.0293	0.0293	105	
PCB-7	16:08	231331814	1.64	1.4134	2084.5	2084.5	0.0295	0.0295	104	
PCB-6	16:22	255647445	1.65	1.5421	2111.4	2111.4	0.0271	0.0271	106	
PCB-5	16:41	222818417	1.66	1.3395	2118.6	2118.6	0.0311	0.0311	106	
PCB-8	16:48	268244897	1.65	1.5889	2150.2	2150.2	0.0263	0.0263	108	
PCB-14	18:26	231080321	1.65	1.4025	2098.5	2098.5	0.0297	0.0297	105	
PCB-11	19:16	216275260	1.64	1.2951	2126.9	2126.9	0.0322	0.0322	106	
PCB-12	19:34	468162119	1.66	1.3358	4463.7	4463.7	0.0312	0.0312	112	
PCB-13 (C12)	19:34	468162119	1.66	1.3358	4463.7	4463.7	0.0312	0.0312	112	
PCB-15	19:53	269724618	1.64	1.2903	2083.9	2083.9	0.0281	0.0281	104	
S Total Trichlorobiphenyls					51916	51916	7.558	7.558		
D PCB-19L	17:05	3634856	1.08	0.6285	98.0	98.0	0.2793	0.2793	97.99	
* PCB-32L	20:20	5901385	1.09		100.0	100.0				
* PCB-31L	22:37	17316704	1.05		100.0	100.0				
D PCB-37L	26:54	15552321	1.07	0.8749	102.6	102.6	0.1085	0.1085	103	
PCB-19	17:06	94419028	1.05	1.2809	2028.0	2028.0	0.0572	0.0572	101	
PCB-18	18:57	272933390	1.05	1.7652	4253.7	4253.7	0.0415	0.0415	106	
PCB-30 (C18)	18:57	272933390	1.05	1.7652	4253.7	4253.7	0.0415	0.0415	106	
PCB-17	19:23	91948427	1.05	1.2430	2035.1	2035.1	0.0590	0.0590	102	
PCB-27	19:37	145107554	1.05	1.8327	2178.3	2178.3	0.0400	0.0400	109	
PCB-24	19:44	131161059	1.05	1.6777	2150.9	2150.9	0.0437	0.0437	108	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:51	85816817	1.06	1.1286	2092.0	2092.0	0.0650	0.0650	105	
PCB-32	20:22	140138189	1.06	1.8324	2104.0	2104.0	0.0400	0.0400	105	
PCB-34	21:37	373345873	1.06	1.1277	2128.7	2128.7	11.7	11.7	106	
PCB-23	21:47	352538213	1.04	1.0813	2096.3	2096.3	12.2	12.2	105	
PCB-26	22:06	788218448	1.02	1.1255	4503.2	4503.2	11.7	11.7	113	
PCB-29 (C26)	22:06	788218448	1.02	1.1255	4503.2	4503.2	11.7	11.7	113	
PCB-25	22:19	436326451	1.04	1.2728	2204.3	2204.3	10.4	10.4	110	
PCB-31	22:38	378421846	1.04	1.1532	2109.9	2109.9	11.4	11.4	105	
PCB-20	22:56	842454191	1.03	1.1718	4622.7	4622.7	11.3	11.3	116	
PCB-28 (C20)	22:56	842454191	1.03	1.1718	4622.7	4622.7	11.3	11.3	116	
PCB-21	23:06	749389733	1.03	1.0746	4484.1	4484.1	12.3	12.3	112	M
PCB-33 (C21)	23:06	749389733	1.03	1.0746	4484.1	4484.1	12.3	12.3	112	M
PCB-22	23:33	398788093	1.05	1.1932	2148.9	2148.9	11.1	11.1	107	
PCB-36	25:07	361500062	1.11	1.1071	2099.6	2099.6	11.9	11.9	105	
PCB-39	25:28	394634471	1.05	1.1581	2191.0	2191.0	11.4	11.4	110	
PCB-38	26:03	383822577	1.05	1.0843	2276.0	2276.0	12.2	12.2	114	
PCB-35	26:31	371576451	1.05	1.1297	2114.9	2114.9	11.7	11.7	106	
PCB-37	26:55	372528859	1.05	1.1435	2094.7	2094.7	11.5	11.5	105	
S Total Tetrachlorobiphenyls					91427	91427	10.7	10.7		
D PCB-54L	20:10	3193810	0.79	0.5562	97.3	97.3	0.0513	0.0513	97.30	M
* PCB-52L	24:45	8475970	0.80		100.0	100.0				
D PCB-81L	33:40	11264701	0.81	1.2470	106.6	106.6	0.1274	0.1274	107	
D PCB-77L	34:13	11187391	0.81	1.3212	99.9	99.9	0.1202	0.1202	99.90	
PCB-54	20:12	84275390	0.80	1.2733	2072.3	2072.3	0.0719	0.0719	104	
PCB-50	22:23	424571971	0.77	0.8578	4409.1	4409.1	13.8	13.8	110	
PCB-53 (C50)	22:23	424571971	0.77	0.8578	4409.1	4409.1	13.8	13.8	110	
PCB-45	23:06	401693892	0.80	0.8264	4329.7	4329.7	14.4	14.4	108	M
PCB-51 (C45)	23:06	401693892	0.80	0.8264	4329.7	4329.7	14.4	14.4	108	M
PCB-46	23:20	157969398	0.78	0.7101	1981.7	1981.7	16.7	16.7	99.08	
PCB-52	24:46	214166805	0.77	0.9194	2075.0	2075.0	12.9	12.9	104	
PCB-43	24:55	489361192	0.76	1.0333	4218.5	4218.5	11.5	11.5	105	Ma
PCB-73 (C43)	24:55	489361192	0.76	1.0333	4218.5	4218.5	11.5	11.5	105	Ma
PCB-49	25:12	518749137	0.76	1.0685	4324.6	4324.6	11.1	11.1	108	M
PCB-69 (C49)	25:12	518749137	0.76	1.0685	4324.6	4324.6	11.1	11.1	108	M
PCB-48	25:32	194390518	0.78	0.8399	2061.7	2061.7	14.1	14.1	103	
PCB-44	25:47	773503972	0.77	0.9731	7080.7	7080.7	12.2	12.2	118	
PCB-47 (C44)	25:47	773503972	0.77	0.9731	7080.7	7080.7	12.2	12.2	118	
PCB-65 (C44)	25:47	773503972	0.77	0.9731	7080.7	7080.7	12.2	12.2	118	
PCB-59	26:05	952848187	0.77	1.1853	7161.2	7161.2	10.0	10.0	119	
PCB-62 (C59)	26:05	952848187	0.77	1.1853	7161.2	7161.2	10.0	10.0	119	
PCB-75 (C59)	26:05	952848187	0.77	1.1853	7161.2	7161.2	10.0	10.0	119	
PCB-42	26:17	186831580	0.78	0.8097	2055.5	2055.5	14.7	14.7	103	
PCB-40	26:47	641280083	0.76	0.8863	6445.0	6445.0	13.4	13.4	107	Ma
PCB-41 (C40)	26:47	641280083	0.76	0.8863	6445.0	6445.0	13.4	13.4	107	Ma
PCB-71 (C40)	26:47	641280083	0.76	0.8863	6445.0	6445.0	13.4	13.4	107	Ma
PCB-64	27:00	268312321	0.77	1.1776	2029.7	2029.7	10.1	10.1	101	
PCB-72	27:50	260036448	0.78	1.0943	2116.8	2116.8	10.9	10.9	106	
PCB-68	28:07	302767134	0.77	1.2533	2151.9	2151.9	9.475	9.475	108	
PCB-57	28:33	259652587	0.77	1.0818	2138.0	2138.0	11.0	11.0	107	
PCB-58	28:47	332927040	0.77	1.3253	2237.6	2237.6	8.960	8.960	112	
PCB-67	28:57	349063048	0.78	1.4230	2185.0	2185.0	8.345	8.345	109	
PCB-63	29:13	261710211	0.77	1.1240	2074.1	2074.1	10.6	10.6	104	
PCB-61	29:33	1322616466	0.80	1.2612	9341.3	9341.3	9.415	9.415	117	
PCB-70 (C61)	29:33	1322616466	0.80	1.2612	9341.3	9341.3	9.415	9.415	117	
PCB-74 (C61)	29:33	1322616466	0.80	1.2612	9341.3	9341.3	9.415	9.415	117	
PCB-76 (C61)	29:33	1322616466	0.80	1.2612	9341.3	9341.3	9.415	9.415	117	
PCB-66	29:52	306877309	0.77	1.2583	2172.6	2172.6	9.438	9.438	109	
PCB-55	30:02	318274904	0.77	1.3236	2141.9	2141.9	8.971	8.971	107	
PCB-56	30:32	290239949	0.77	1.2334	2096.2	2096.2	9.628	9.628	105	
PCB-60	30:45	262262219	0.77	1.1230	2080.2	2080.2	10.6	10.6	104	
PCB-80	31:10	317715187	0.78	1.3243	2137.2	2137.2	8.967	8.967	107	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:42	354295498	0.77	1.4368	2196.5	2196.5	8.265	8.265	110	
PCB-78	33:15	259722209	0.78	1.1618	1991.3	1991.3	10.2	10.2	99.57	
PCB-81	33:41	246419766	0.78	1.0802	2025.1	2025.1	10.9	10.9	101	
PCB-77	34:15	254122136	0.77	1.0836	2096.3	2096.3	11.1	11.1	105	
S Total Pentachlorobiphenyls					98197	98197	4.748	4.748		
D PCB-104L	25:42	6975966	1.61	1.2161	94.1	94.1	0.0335	0.0335	94.11	
* PCB-101L	31:36	6095567	1.60		100.0	100.0				
D PCB-123L	36:15	11406816	1.61	0.9731	104.7	104.7	0.8209	0.8209	105	
D PCB-118L	36:34	11370905	1.59	1.0102	100.6	100.6	0.7908	0.7908	101	
D PCB-114L	37:06	11474644	1.60	0.9949	103.0	103.0	0.8029	0.8029	103	
D PCB-105L	37:44	10771838	1.58	0.9514	101.1	101.1	0.8396	0.8396	101	
* PCB-127L	39:13	11193535	1.59		100.0	100.0				
D PCB-126L	40:49	11098540	1.58	0.9439	105.0	105.0	0.8463	0.8463	105	
PCB-104	25:42	148594312	1.61	1.0087	2111.7	2111.7	0.0696	0.0696	106	
PCB-96	26:05	165718292	1.62	1.0940	2171.4	2171.4	0.0642	0.0642	109	
PCB-103	28:01	125264432	1.61	0.8741	2054.2	2054.2	0.0803	0.0803	103	
PCB-94	28:14	104404112	1.61	0.7640	1958.9	1958.9	0.0919	0.0919	97.94	
PCB-95	28:41	115750524	1.60	0.8033	2065.6	2065.6	0.0874	0.0874	103	
PCB-93	28:54	255671436	1.63	0.8429	4348.3	4348.3	0.0833	0.0833	109	
PCB-100 (C93)	28:54	255671436	1.63	0.8429	4348.3	4348.3	0.0833	0.0833	109	
PCB-98	29:03	237097257	1.62	0.8262	4113.9	4113.9	0.0850	0.0850	103	
PCB-102 (C98)	29:03	237097257	1.62	0.8262	4113.9	4113.9	0.0850	0.0850	103	
PCB-88	29:33	238830684	1.62	0.8013	4272.6	4272.6	0.0876	0.0876	107	
PCB-91 (C88)	29:33	238830684	1.62	0.8013	4272.6	4272.6	0.0876	0.0876	107	
PCB-84	29:46	101701980	1.61	0.7299	1997.3	1997.3	0.0962	0.0962	99.86	
PCB-89	30:15	106371354	1.61	0.7798	1955.3	1955.3	0.0900	0.0900	97.77	
PCB-121	30:40	189494866	1.62	1.2964	2095.3	2095.3	0.0541	0.0541	105	M
PCB-92	31:02	119034801	1.63	0.8546	1996.8	1996.8	0.0821	0.0821	99.84	M
PCB-90	31:37	445746570	1.64	0.9550	6690.9	6690.9	0.0735	0.0735	112	
PCB-101 (C90)	31:37	445746570	1.64	0.9550	6690.9	6690.9	0.0735	0.0735	112	
PCB-113 (C90)	31:37	445746570	1.64	0.9550	6690.9	6690.9	0.0735	0.0735	112	
PCB-83	32:12	241281713	1.61	0.8385	4124.9	4124.9	0.0837	0.0837	103	
PCB-99 (C83)	32:12	241281713	1.61	0.8385	4124.9	4124.9	0.0837	0.0837	103	
PCB-112	32:19	200578005	1.62	1.4111	2037.6	2037.6	0.0497	0.0497	102	
PCB-86	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-87 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-97 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-109 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-119 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-125 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-85	33:25	471144048	1.63	1.0408	6489.1	6489.1	0.0674	0.0674	108	
PCB-116 (C85)	33:25	471144048	1.63	1.0408	6489.1	6489.1	0.0674	0.0674	108	
PCB-117 (C85)	33:25	471144048	1.63	1.0408	6489.1	6489.1	0.0674	0.0674	108	
PCB-110	33:36	348252734	1.63	1.1919	4188.6	4188.6	0.0589	0.0589	105	
PCB-115 (C110)	33:36	348252734	1.63	1.1919	4188.6	4188.6	0.0589	0.0589	105	
PCB-82	33:54	118090307	1.61	0.8303	2038.7	2038.7	0.0845	0.0845	102	
PCB-111	34:19	172673938	1.62	1.2125	2041.4	2041.4	0.0579	0.0579	102	
PCB-120	34:46	217057638	1.63	1.4762	2107.7	2107.7	0.0475	0.0475	105	
PCB-108	35:54	576858278	1.66	1.1405	4506.1	4506.1	14.2	14.2	113	
PCB-124 (C108)	35:54	576858278	1.66	1.1405	4506.1	4506.1	14.2	14.2	113	
PCB-107	36:09	280088284	1.61	1.2121	2058.7	2058.7	13.4	13.4	103	
PCB-123	36:16	259083255	1.62	1.0722	2118.3	2118.3	14.6	14.6	106	
PCB-106	36:22	259205947	1.61	1.0839	2130.5	2130.5	14.9	14.9	107	
PCB-118	36:35	282900049	1.62	1.2055	2063.7	2063.7	13.0	13.0	103	
PCB-122	36:56	217083178	1.61	0.9567	2021.5	2021.5	16.9	16.9	101	
PCB-114	37:07	259907186	1.61	1.0842	2089.2	2089.2	14.7	14.7	104	
PCB-105	37:46	263476320	1.60	1.1879	2059.1	2059.1	14.2	14.2	103	
PCB-127	39:14	264011122	1.61	1.1394	2064.4	2064.4	14.2	14.2	103	
PCB-126	40:51	256982981	1.61	1.0976	2109.6	2109.6	15.4	15.4	105	
S Total Hexachlorobiphenyls					88220	88220	4.989	4.989		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-155L	31:22	6037909	1.27	1.0851	91.3	91.3	0.0236	0.0236	91.28	
* PCB-138L	39:41	7617968	1.29		100.0	100.0				
\$ PCB-159L	41:56	4754884	1.29	0.5118	99.9	99.9	1.026	1.026	99.93	
D PCB-167L	42:42	9296213	1.30	1.2572	97.1	97.1	0.5148	0.5148	97.06	
D PCB-156L	43:51	18003846	1.29	1.2106	195.2	195.2	0.5347	0.5347	97.61	
D PCB-157L (C156L)	43:51	18003846	1.29	1.2106	195.2	195.2	0.5347	0.5347	97.61	
D PCB-169L	47:05	9278382	1.28	1.2439	97.9	97.9	0.5204	0.5204	97.92	
PCB-155	31:24	117062772	1.28	0.9444	2052.9	2052.9	0.0776	0.0776	103	
PCB-152	31:35	127316142	1.27	0.9895	2130.9	2130.9	0.0740	0.0740	107	
PCB-150	31:45	127390982	1.28	1.0132	2082.3	2082.3	0.0723	0.0723	104	
PCB-136	32:07	128715901	1.29	1.0116	2107.4	2107.4	0.0724	0.0724	105	
PCB-145	32:24	121971700	1.28	0.9685	2085.8	2085.8	0.0756	0.0756	104	
PCB-148	33:56	97145990	1.27	0.7603	2116.2	2116.2	0.0964	0.0964	106	
PCB-135	34:31	185302824	1.27	0.7256	4229.8	4229.8	0.1010	0.1010	106	M
PCB-151 (C135)	34:31	185302824	1.27	0.7256	4229.8	4229.8	0.1010	0.1010	106	M
PCB-154	34:46	103679991	1.28	0.8129	2112.4	2112.4	0.0901	0.0901	106	
PCB-144	35:05	96362038	1.28	0.7852	2032.4	2032.4	0.0933	0.0933	102	
PCB-147	35:27	357302891	1.28	0.8950	4365.8	4365.8	7.302	7.302	109	
PCB-149 (C147)	35:27	357302891	1.28	0.8950	4365.8	4365.8	7.302	7.302	109	
PCB-134	35:45	291141501	1.27	0.7967	3996.3	3996.3	8.203	8.203	99.91	
PCB-143 (C134)	35:45	291141501	1.27	0.7967	3996.3	3996.3	8.203	8.203	99.91	
PCB-139	36:03	349280537	1.27	0.8769	4355.9	4355.9	7.453	7.453	109	
PCB-140 (C139)	36:03	349280537	1.27	0.8769	4355.9	4355.9	7.453	7.453	109	
PCB-131	36:15	145204904	1.26	0.7503	2116.4	2116.4	8.710	8.710	106	
PCB-142	36:23	147452709	1.27	0.7507	2147.9	2147.9	8.706	8.706	107	
PCB-132	36:42	134732483	1.27	0.7489	1967.3	1967.3	8.726	8.726	98.36	
PCB-133	37:13	147730024	1.27	0.8096	1995.5	1995.5	8.073	8.073	99.77	
PCB-165	37:37	191105968	1.27	1.0247	2039.4	2039.4	6.378	6.378	102	
PCB-146	37:52	183787905	1.26	0.9637	2085.5	2085.5	6.782	6.782	104	
PCB-161	37:59	217946430	1.28	1.1288	2111.5	2111.5	5.790	5.790	106	
PCB-153	38:29	433749157	1.28	1.0938	4336.6	4336.6	5.975	5.975	108	
PCB-168 (C153)	38:29	433749157	1.28	1.0938	4336.6	4336.6	5.975	5.975	108	
PCB-141	38:40	155876662	1.27	0.8755	1946.9	1946.9	7.465	7.465	97.35	
PCB-130	39:04	126435560	1.26	0.7051	1960.9	1960.9	9.268	9.268	98.04	
PCB-137	39:18	145652162	1.26	0.7767	2050.8	2050.8	8.415	8.415	103	
PCB-164	39:25	196637037	1.27	1.0382	2071.1	2071.1	6.295	6.295	104	
PCB-129	39:44	763652147	1.27	0.9464	8823.8	8823.8	6.905	6.905	110	M
PCB-138 (C129)	39:44	763652147	1.27	0.9464	8823.8	8823.8	6.905	6.905	110	M
PCB-160 (C129)	39:44	763652147	1.27	0.9464	8823.8	8823.8	6.905	6.905	110	M
PCB-163 (C129)	39:44	763652147	1.27	0.9464	8823.8	8823.8	6.905	6.905	110	M
PCB-158	40:06	240225815	1.28	1.3110	2003.7	2003.7	4.985	4.985	100	
PCB-128	40:57	400795430	1.27	0.9829	4458.9	4458.9	6.649	6.649	111	
PCB-166 (C128)	40:57	400795430	1.27	0.9829	4458.9	4458.9	6.649	6.649	111	
PCB-159	41:58	268867618	1.27	1.3856	2121.9	2121.9	4.717	4.717	106	
PCB-162	42:15	227875192	1.27	1.2571	1982.3	1982.3	5.199	5.199	99.11	
PCB-167	42:43	213807712	1.27	1.1159	2061.1	2061.1	4.915	4.915	103	
PCB-156	43:53	422223885	1.26	1.1104	4224.0	4224.0	7.237	7.237	106	
PCB-157 (C156)	43:53	422223885	1.26	1.1104	4224.0	4224.0	7.237	7.237	106	
PCB-169	47:06	220826313	1.28	1.1628	2046.7	2046.7	4.755	4.755	102	
S Total Heptachlorobiphenyls					48937	48937	0.1057	0.1057		
D PCB-188L	37:06	7440630	1.05	1.3133	101.8	101.8	0.0381	0.0381	102	
* PCB-180L	45:15	5566234	1.10		100.0	100.0				
D PCB-170L	46:30	4404173	1.08	0.8362	94.6	94.6	0.0598	0.0598	94.62	
D PCB-189L	49:37	11047526	1.06	1.4414	102.5	102.5	0.2551	0.2551	102	
PCB-188	37:07	172058230	1.06	1.1350	2037.4	2037.4	0.0512	0.0512	102	
PCB-179	37:27	169294763	1.06	1.4276	2002.4	2002.4	0.0524	0.0524	100	
PCB-184	37:59	173580025	1.05	1.3672	2143.8	2143.8	0.0548	0.0548	107	
PCB-176	38:20	147820845	1.06	1.2331	2024.2	2024.2	0.0607	0.0607	101	
PCB-186	38:48	183358035	1.05	1.4737	2100.8	2100.8	0.0508	0.0508	105	
PCB-178	40:10	108531079	1.06	0.8946	2048.4	2048.4	0.0837	0.0837	102	

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-175	40:48	114534847	1.05	0.9524	2030.6	2030.6	0.0786	0.0786	102	
PCB-187	41:05	135710155	1.06	1.1018	2079.7	2079.7	0.0679	0.0679	104	
PCB-182	41:17	113333574	1.05	0.9247	2069.5	2069.5	0.0810	0.0810	103	
PCB-183	41:42	226842465	1.07	0.9825	3898.5	3898.5	0.0762	0.0762	97.46	Ma
PCB-185 (C183)	41:42	226842465	1.07	0.9825	3898.5	3898.5	0.0762	0.0762	97.46	Ma
PCB-174	41:56	120778067	1.05	0.9642	2115.1	2115.1	0.0776	0.0776	106	
PCB-177	42:22	115865581	1.05	0.9773	2001.9	2001.9	0.0766	0.0766	100	
PCB-181	42:45	115218365	1.06	0.9505	2046.7	2046.7	0.0788	0.0788	102	
PCB-171	42:58	222795208	1.06	0.9336	4029.3	4029.3	0.0802	0.0802	101	
PCB-173 (C171)	42:58	222795208	1.06	0.9336	4029.3	4029.3	0.0802	0.0802	101	
PCB-172	44:37	98480427	1.04	0.8519	1952.0	1952.0	0.0879	0.0879	97.60	
PCB-192	44:54	164428936	1.06	1.3459	2062.9	2062.9	0.0556	0.0556	103	
PCB-180	45:14	287312478	1.05	1.1676	4155.0	4155.0	0.0641	0.0641	104	
PCB-193 (C180)	45:14	287312478	1.05	1.1676	4155.0	4155.0	0.0641	0.0641	104	
PCB-191	45:37	156918655	1.07	1.2891	2055.4	2055.4	0.0581	0.0581	103	
PCB-170	46:31	104308327	1.05	1.1865	1996.1	1996.1	0.0887	0.0887	99.81	
PCB-190	47:02	158352425	1.06	1.3322	2007.0	2007.0	0.0562	0.0562	100	
PCB-189	49:38	221399680	1.04	0.9633	2080.3	2080.3	0.8387	0.8387	104	
S Total Octachlorobiphenyls					24392	24392	0.3094	0.3094		
D PCB-202L	42:28	5299657	0.89	0.9818	97.0	97.0	0.0448	0.0448	96.97	
* PCB-194L	51:43	7477993	0.92		100.0	100.0				
D PCB-205L	52:11	8823289	0.92	1.1786	100.1	100.1	0.0560	0.0560	100	
PCB-202	42:29	114836205	0.90	1.0359	2091.8	2091.8	0.0662	0.0662	105	
PCB-201	43:24	104750814	0.90	0.9754	2026.5	2026.5	0.0703	0.0703	101	
PCB-204	44:05	111110035	0.90	1.0485	1999.5	1999.5	0.0654	0.0654	99.98	
PCB-197	44:19	119677701	0.90	1.1458	1970.9	1970.9	0.0598	0.0598	98.54	
PCB-200	44:25	107343183	0.90	1.0072	2011.1	2011.1	0.0681	0.0681	101	
PCB-198	47:12	190066454	0.90	0.8698	4123.3	4123.3	0.0788	0.0788	103	
PCB-199 (C198)	47:12	190066454	0.90	0.8698	4123.3	4123.3	0.0788	0.0788	103	
PCB-196	47:53	81076975	0.90	0.7806	1959.7	1959.7	0.0878	0.0878	97.99	
PCB-203	48:05	98693847	0.91	0.9292	2004.1	2004.1	0.0738	0.0738	100	
PCB-195	49:24	154147844	0.90	0.8263	2114.3	2114.3	1.086	1.086	106	
PCB-194	51:44	173567729	0.89	0.9735	2020.7	2020.7	0.9219	0.9219	101	
PCB-205	52:13	198631608	0.89	1.0878	2069.6	2069.6	0.8251	0.8251	103	
S Total Nonachlorobiphenyls					5919.4	5919.4	1.080	1.080		
D PCB-208L	49:08	7275684	0.81	0.9576	101.6	101.6	0.2816	0.2816	102	
D PCB-206L	53:56	5196483	0.82	0.6947	100.0	100.0	0.3881	0.3881	100	
PCB-208	49:10	166655336	0.78	1.1374	2013.8	2013.8	1.005	1.005	101	
PCB-207	50:05	170983014	0.78	1.3756	1993.2	1993.2	0.9857	0.9857	99.66	
PCB-206	53:58	132627452	0.78	1.3346	1912.4	1912.4	1.248	1.248	95.62	M
D PCB-209L	55:35	4902169	0.71	0.6669	98.3	98.3	0.0745	0.0745	98.30	
DCB Decachlorobiphenyl	55:35	109226464	0.70	1.1004	2024.8	2024.8	0.0364	0.0364	101	
S Polychlorinated biphenyls, Total					436602	436602	3.289	3.289		

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L51668P 00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-May-2024 21:13:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-006
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:25:39 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 04-Jun-2024 14:25:39

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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PCB-1L

200.0795	11:34	11:36	-2	0.725	10754013	4289788	3129	7822	1371		
202.0766	11:34	11:36	-2	0.725	3349549	1329717	1503	3757	885	3.21(2.66-3.60)	

PCB-3L

200.0795	13:43	13:46	-2	0.861	10992517	3748060	3129	7822	1198		
202.0766	13:43	13:46	-2	0.861	3404545	1158657	1503	3757	771	3.23(2.66-3.60)	

PCB-1

188.0393	11:35	11:37	-2	1.001	234568717	85607908	89899	224747	952		
190.0363	11:35	11:37	-2	1.001	92228311	38939705	29153	72882	1336	2.54(2.66-3.60)	
					Empc Correction	74942080	27350767	29153	72882	938	

RQ

PCB-2

188.0393	13:34	13:36	-2	0.988	262988565	83986728	89899	224747	934		
190.0363	13:34	13:36	-2	0.988	90095930	32601300	29153	72882	1118	2.92(2.66-3.60)	

PCB-3

188.0393	13:44	13:47	-2	1.001	269914050	86572525	89899	224747	963		
190.0363	13:44	13:47	-2	1.001	90441973	31826448	29153	72882	1092	2.98(2.66-3.60)	

PCB-4L

234.0406	13:59	14:02	-2	0.877	3472582	1159519	752	1880	1542		
236.0376	13:59	14:02	-2	0.877	2199620	725220	179	447	4052	1.58(1.33-1.79)	

PCB-9L

234.0406	15:57	15:59	-2		5493254	1600537	752	1880	2128		
236.0376	15:57	15:59	-2		3372477	990756	179	447	5535	1.63(1.33-1.79)	

PCB-15L

234.0406	19:52	19:54	-2	1.246	6202272	1578840	752	1880	2100		
236.0376	19:52	19:54	-2	1.246	3828971	980067	179	447	5475	1.62(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-4											
222.0003	14:00	14:02	-2	1.001	94515395	32745412	171	427	191494		
223.9974	14:00	14:02	-2	1.001	58193895	20013994	200	500	100070	1.62(1.33-1.79)	
PCB-10											
222.0003	14:10	14:13	-2	1.013	136751884	47058628	171	427	275197		
223.9974	14:10	14:13	-2	1.013	82854628	27880362	200	500	139402	1.65(1.33-1.79)	
PCB-9											
222.0003	15:58	16:00	-2	1.142	146334689	44370793	171	427	259478		
223.9974	15:58	16:00	-2	1.142	88655022	26507740	200	500	132539	1.65(1.33-1.79)	
PCB-7											
222.0003	16:08	16:10	-2	1.153	143719888	44739433	171	427	261634		
223.9974	16:08	16:10	-2	1.153	87611926	27030236	200	500	135151	1.64(1.33-1.79)	
PCB-6											
222.0003	16:22	16:25	-3	1.170	159325476	47133801	171	427	275636		
223.9974	16:22	16:25	-3	1.170	96321969	28375772	200	500	141879	1.65(1.33-1.79)	
PCB-5											
222.0003	16:41	16:43	-2	1.193	138924762	40676201	171	427	237873		
223.9974	16:41	16:43	-2	1.193	83893655	24042204	200	500	120211	1.66(1.33-1.79)	
PCB-8											
222.0003	16:48	16:50	-2	1.201	166998039	50198121	171	427	293556		
223.9974	16:48	16:50	-2	1.201	101246858	30147292	200	500	150737	1.65(1.33-1.79)	
PCB-14											
222.0003	18:26	18:28	-2	0.928	143956666	40021865	171	427	234046		
223.9974	18:26	18:28	-2	0.928	87123655	23907292	200	500	119537	1.65(1.33-1.79)	
PCB-11											
222.0003	19:16	19:18	-2	0.970	134426111	36507497	171	427	213494		
223.9974	19:16	19:18	-2	0.970	81849149	22032348	200	500	110162	1.64(1.33-1.79)	
PCB-12											
222.0003	19:34	19:36	-2	0.985	291979442	50976617	171	427	298109		
223.9974	19:34	19:36	-2	0.985	176182677	30681308	200	500	153407	1.66(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:34	19:36	-2	0.985	291979442	50976617	171	427	298109		
223.9974	19:34	19:36	-2	0.985	176182677	30681308	200	500	153407	1.66(1.33-1.79)	
PCB-15											
222.0003	19:53	19:55	-2	1.001	167697265	43484521	171	427	254295		
223.9974	19:53	19:55	-2	1.001	102027353	26117852	200	500	130589	1.64(1.33-1.79)	
PCB-19L											
268.0016	17:05	17:08	-2	0.840	1885439	523334	413	1032	1267		
269.9986	17:05	17:08	-2	0.840	1749417	482039	572	1430	843	1.08(0.88-1.20)	
PCB-32L											
268.0016	20:20	20:23	-2		3079097	727986	413	1032	1763		
269.9986	20:20	20:23	-2		2822288	674645	572	1430	1179	1.09(0.88-1.20)	
PCB-31L											
268.0016	22:37	22:38	-2		8885777	2163995	743	1857	2913		
269.9986	22:37	22:38	-2		8430927	2037598	853	2132	2389	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37L											
268.0016	26:54	26:55	-1	1.190	8056279	1777948	743	1857	2393		
269.9986	26:54	26:55	-1	1.190	7496042	1667650	853	2132	1955	1.07(0.88-1.20)	
PCB-19											
255.9613	17:06	17:09	-2	1.001	48410130	13799356	148	370	93239		
257.9584	17:06	17:09	-2	1.001	46008898	13166279	147	367	89567	1.05(0.88-1.20)	
PCB-18											
255.9613	18:57	18:59	-2	1.109	139824358	27627938	148	370	186675		
257.9584	18:57	18:59	-2	1.109	133109032	26261185	147	367	178648	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:57	18:59	-2	1.109	139824358	27627938	148	370	186675		
257.9584	18:57	18:59	-2	1.109	133109032	26261185	147	367	178648	1.05(0.88-1.20)	
PCB-17											
255.9613	19:23	19:26	-2	1.135	47187181	12350370	148	370	83448		
257.9584	19:23	19:26	-2	1.135	44761246	11790273	147	367	80206	1.05(0.88-1.20)	
PCB-27											
255.9613	19:37	19:39	-2	1.148	74417782	19342754	148	370	130694		
257.9584	19:36	19:39	-2	1.147	70689772	18379713	147	367	125032	1.05(0.88-1.20)	
PCB-24											
255.9613	19:44	19:46	-2	1.155	67298387	17488546	148	370	118166		
257.9584	19:44	19:46	-2	1.155	63862672	16569281	147	367	112716	1.05(0.88-1.20)	
PCB-16											
255.9613	19:51	19:53	-2	1.162	44137761	11444386	148	370	77327		
257.9584	19:51	19:53	-2	1.162	41679056	10820033	147	367	73606	1.06(0.88-1.20)	
PCB-32											
255.9613	20:22	20:23	-2	1.192	72044656	18307746	148	370	123701		
257.9584	20:22	20:23	-2	1.192	68093533	17292993	147	367	117639	1.06(0.88-1.20)	
PCB-34											
255.9613	21:37	21:39	-2	1.265	192350519	49279483	91549	228872	538		
257.9584	21:37	21:39	-2	1.265	180995354	46313612	90410	226025	512	1.06(0.88-1.20)	
PCB-23											
255.9613	21:47	21:48	-2	1.274	179749458	46158887	91549	228872	504		
257.9584	21:47	21:48	-2	1.274	172788755	44383619	90410	226025	491	1.04(0.88-1.20)	
PCB-26											
255.9613	22:06	22:08	-2	1.293	398686324	83910875	91549	228872	917		
257.9584	22:06	22:08	-2	1.293	389532124	83741462	90410	226025	926	1.02(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:06	22:08	-2	1.293	398686324	83910875	91549	228872	917		
257.9584	22:06	22:08	-2	1.293	389532124	83741462	90410	226025	926	1.02(0.88-1.20)	
PCB-25											
255.9613	22:19	22:21	-2	0.829	222826290	52320592	91549	228872	572		
257.9584	22:19	22:21	-2	0.829	213500161	50247158	90410	226025	556	1.04(0.88-1.20)	
PCB-31											
255.9613	22:38	22:40	-2	0.841	192866238	49658665	91549	228872	542		
257.9584	22:38	22:40	-2	0.841	185555608	47756084	90410	226025	528	1.04(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-20											
255.9613	22:56	22:58	-2	0.853	426671973	83044052	91549	228872	907		
257.9584	22:56	22:58	-2	0.853	415782218	82778595	90410	226025	916	1.03(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:56	22:58	-2	0.853	426671973	83044052	91549	228872	907		
257.9584	22:56	22:58	-2	0.853	415782218	82778595	90410	226025	916	1.03(0.88-1.20)	
PCB-21											
255.9613	23:06	23:07	-1	0.859	380418482	50532557	91549	228872	552		M
257.9584	23:06	23:07	-2	0.858	368971251	48927783	90410	226025	541	1.03(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:06	23:07	-1	0.859	380418482	50532557	91549	228872	552		M
257.9584	23:06	23:07	-2	0.858	368971251	48927783	90410	226025	541	1.03(0.88-1.20)	M
PCB-22											
255.9613	23:33	23:35	-2	0.875	203903665	51385849	91549	228872	561		
257.9584	23:33	23:35	-2	0.875	194884428	49338332	90410	226025	546	1.05(0.88-1.20)	
PCB-36											
255.9613	25:07	25:09	-2	0.933	189833401	41986793	91549	228872	459		
257.9584	25:07	25:09	-2	0.933	171666661	40424919	90410	226025	447	1.11(0.88-1.20)	
PCB-39											
255.9613	25:28	25:30	-2	0.947	201659782	46836641	91549	228872	512		
257.9584	25:28	25:30	-2	0.947	192974689	44712407	90410	226025	495	1.05(0.88-1.20)	
PCB-38											
255.9613	26:03	26:05	-2	0.968	196490344	44752898	91549	228872	489		
257.9584	26:03	26:05	-2	0.968	187332233	42937047	90410	226025	475	1.05(0.88-1.20)	
PCB-35											
255.9613	26:31	26:32	-1	0.986	190388812	44686478	91549	228872	488		
257.9584	26:31	26:32	-1	0.986	181187639	42609672	90410	226025	471	1.05(0.88-1.20)	
PCB-37											
255.9613	26:55	26:57	-2	1.000	191000617	42751493	91549	228872	467		
257.9584	26:55	26:57	-2	1.000	181528242	40748304	90410	226025	451	1.05(0.88-1.20)	
PCB-54L											
301.9626	20:10	20:12	-2	0.815	1410600	348536	93	232	3748		M
303.9597	20:10	20:12	-2	0.815	1783210	448882	67	167	6700	0.79(0.65-0.89)	M
PCB-52L											
301.9626	24:45	24:46	-2		3766633	836644	593	1482	1411		
303.9597	24:45	24:46	-2		4709337	1056827	610	1525	1733	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:40	33:41	-1	1.360	5053228	1038580	593	1482	1751		
303.9597	33:40	33:41	-1	1.360	6211473	1286399	610	1525	2109	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:13	34:14	-1	1.383	4996211	1018481	593	1482	1718		
303.9597	34:13	34:14	-1	1.383	6191180	1264068	610	1525	2072	0.81(0.65-0.89)	
PCB-54											
289.9224	20:12	20:13	-2	1.000	37405340	9622985	134	335	71813		
291.9194	20:12	20:13	-2	1.000	46870050	11943079	158	395	75589	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-50											
289.9224	22:23	22:24	-1	1.110	184304071	40095250	50155	125387	799		
291.9194	22:23	22:24	-1	1.110	240267900	52867577	59274	148185	892	0.77(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:23	22:24	-1	1.110	184304071	40095250	50155	125387	799		
291.9194	22:23	22:24	-1	1.110	240267900	52867577	59274	148185	892	0.77(0.65-0.89)	
PCB-45											
289.9224	23:06	23:08	-2	1.146	178079818	23872137	50155	125387	476		M
291.9194	23:06	23:08	-2	1.146	223614074	30348240	59274	148185	512	0.80(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:06	23:08	-2	1.146	178079818	23872137	50155	125387	476		M
291.9194	23:06	23:08	-2	1.146	223614074	30348240	59274	148185	512	0.80(0.65-0.89)	M
PCB-46											
289.9224	23:20	23:22	-2	1.157	69320314	16740575	50155	125387	334		
291.9194	23:20	23:22	-2	1.157	88649084	21569295	59274	148185	364	0.78(0.65-0.89)	
PCB-52											
289.9224	24:46	24:47	-1	1.228	93446718	22095055	50155	125387	441		
291.9194	24:46	24:47	-1	1.228	120720087	28630291	59274	148185	483	0.77(0.65-0.89)	
PCB-43											
289.9224	24:55	24:56	-2	1.235	211426036	29403027	50155	125387	586		Ma
291.9194	24:55	24:56	-2	1.235	277935156	38825342	59274	148185	655	0.76(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:55	24:56	-2	1.235	211426036	29403027	50155	125387	586		Ma
291.9194	24:55	24:56	-2	1.235	277935156	38825342	59274	148185	655	0.76(0.65-0.89)	M
PCB-49											
289.9224	25:12	25:14	-2	1.250	224774717	34859765	50155	125387	695		M
291.9194	25:12	25:14	-2	1.250	293974420	45955966	59274	148185	775	0.76(0.65-0.89)	M
PCB-69 (C49)											
289.9224	25:12	25:14	-2	1.250	224774717	34859765	50155	125387	695		M
291.9194	25:12	25:14	-2	1.250	293974420	45955966	59274	148185	775	0.76(0.65-0.89)	M
PCB-48											
289.9224	25:32	25:33	-1	1.266	84936034	19392315	50155	125387	387		
291.9194	25:32	25:33	-1	1.266	109454484	25127096	59274	148185	424	0.78(0.65-0.89)	
PCB-44											
289.9224	25:47	25:48	-1	1.279	337181148	64523331	50155	125387	1286		
291.9194	25:46	25:48	-2	1.278	436322824	81724856	59274	148185	1379	0.77(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:47	25:48	-1	1.279	337181148	64523331	50155	125387	1286		
291.9194	25:46	25:48	-2	1.278	436322824	81724856	59274	148185	1379	0.77(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:47	25:48	-1	1.279	337181148	64523331	50155	125387	1286		
291.9194	25:46	25:48	-2	1.278	436322824	81724856	59274	148185	1379	0.77(0.65-0.89)	
PCB-59											
289.9224	26:05	26:06	-2	1.293	415385228	65768771	50155	125387	1311		
291.9194	26:05	26:06	-2	1.293	537462959	82023096	59274	148185	1384	0.77(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-62 (C59)											
289.9224	26:05	26:06	-2	1.293	415385228	65768771	50155	125387	1311		
291.9194	26:05	26:06	-2	1.293	537462959	82023096	59274	148185	1384	0.77(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:05	26:06	-2	1.293	415385228	65768771	50155	125387	1311		
291.9194	26:05	26:06	-2	1.293	537462959	82023096	59274	148185	1384	0.77(0.65-0.89)	
PCB-42											
289.9224	26:17	26:18	-2	1.303	81689781	18571843	50155	125387	370		
291.9194	26:17	26:18	-2	1.303	105141799	24080056	59274	148185	406	0.78(0.65-0.89)	
PCB-40											
289.9224	26:47	26:48	-2	1.328	277234397	47517843	50155	125387	947		Ma
291.9194	26:47	26:48	-2	1.328	364045686	63156420	59274	148185	1066	0.76(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:47	26:48	-2	1.328	277234397	47517843	50155	125387	947		Ma
291.9194	26:47	26:48	-2	1.328	364045686	63156420	59274	148185	1066	0.76(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:47	26:48	-2	1.328	277234397	47517843	50155	125387	947		Ma
291.9194	26:47	26:48	-2	1.328	364045686	63156420	59274	148185	1066	0.76(0.65-0.89)	M
PCB-64											
289.9224	27:00	27:01	-1	1.339	116983650	26828099	50155	125387	535		
291.9194	27:00	27:01	-1	1.339	151328671	34988984	59274	148185	590	0.77(0.65-0.89)	
PCB-72											
289.9224	27:50	27:51	-1	0.827	113763062	25682704	50155	125387	512		
291.9194	27:50	27:51	-1	0.827	146273386	33256583	59274	148185	561	0.78(0.65-0.89)	
PCB-68											
289.9224	28:07	28:09	-2	0.835	131919696	27964582	50155	125387	558		
291.9194	28:07	28:09	-2	0.835	170847438	36510766	59274	148185	616	0.77(0.65-0.89)	
PCB-57											
289.9224	28:33	28:34	-1	0.848	113235321	25225776	50155	125387	503		
291.9194	28:33	28:34	-1	0.848	146417266	32725104	59274	148185	552	0.77(0.65-0.89)	
PCB-58											
289.9224	28:47	28:48	-1	0.855	145298829	31328835	50155	125387	625		
291.9194	28:47	28:48	-1	0.855	187628211	40707768	59274	148185	687	0.77(0.65-0.89)	
PCB-67											
289.9224	28:57	28:58	-1	0.860	152487042	31839299	50155	125387	635		
291.9194	28:57	28:58	-1	0.860	196576006	41472696	59274	148185	700	0.78(0.65-0.89)	
PCB-63											
289.9224	29:13	29:14	-1	0.868	113508185	24307267	50155	125387	485		
291.9194	29:13	29:14	-1	0.868	148202026	31811256	59274	148185	537	0.77(0.65-0.89)	
PCB-61											
289.9224	29:33	29:34	-1	0.878	587333618	76819011	50155	125387	1532		
291.9194	29:33	29:34	-2	0.878	735282848	83523768	59274	148185	1409	0.80(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:33	29:34	-1	0.878	587333618	76819011	50155	125387	1532		
291.9194	29:33	29:34	-2	0.878	735282848	83523768	59274	148185	1409	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-74 (C61)											
289.9224	29:33	29:34	-1	0.878	587333618	76819011	50155	125387	1532		
291.9194	29:33	29:34	-2	0.878	735282848	83523768	59274	148185	1409	0.80(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:33	29:34	-1	0.878	587333618	76819011	50155	125387	1532		
291.9194	29:33	29:34	-2	0.878	735282848	83523768	59274	148185	1409	0.80(0.65-0.89)	
PCB-66											
289.9224	29:52	29:53	-1	0.887	133135649	28380995	50155	125387	566		
291.9194	29:52	29:53	-1	0.887	173741660	37216184	59274	148185	628	0.77(0.65-0.89)	
PCB-55											
289.9224	30:02	30:03	-1	0.892	138556826	30598723	50155	125387	610		
291.9194	30:02	30:03	-1	0.892	179718078	39963320	59274	148185	674	0.77(0.65-0.89)	
PCB-56											
289.9224	30:32	30:33	-1	0.907	126483952	27609033	50155	125387	550		
291.9194	30:32	30:33	-1	0.907	163755997	35966266	59274	148185	607	0.77(0.65-0.89)	
PCB-60											
289.9224	30:45	30:46	-1	0.914	113992017	23957463	50155	125387	478		
291.9194	30:45	30:46	-1	0.914	148270202	31337130	59274	148185	529	0.77(0.65-0.89)	
PCB-80											
289.9224	31:10	31:11	-1	0.926	139046957	29819259	50155	125387	595		
291.9194	31:10	31:11	-1	0.926	178668230	38820797	59274	148185	655	0.78(0.65-0.89)	
PCB-79											
289.9224	32:42	32:42	0	0.971	154426670	31320343	50155	125387	624		
291.9194	32:42	32:42	0	0.971	199868828	40816688	59274	148185	689	0.77(0.65-0.89)	
PCB-78											
289.9224	33:15	33:15	0	0.988	113467309	23694400	50155	125387	472		
291.9194	33:15	33:15	0	0.988	146254900	30744591	59274	148185	519	0.78(0.65-0.89)	
PCB-81											
289.9224	33:41	33:42	-1	1.001	107771944	22576973	50155	125387	450		
291.9194	33:41	33:42	-1	1.001	138647822	29199662	59274	148185	493	0.78(0.65-0.89)	
PCB-77											
289.9224	34:15	34:16	-1	1.001	110855148	23436474	50155	125387	467		
291.9194	34:15	34:16	-1	1.001	143266988	30397880	59274	148185	513	0.77(0.65-0.89)	
PCB-104L											
337.9207	25:42	25:42	-1	0.813	4307701	910320	123	307	7401		
339.9178	25:41	25:42	-2	0.813	2668265	557097	85	212	6554	1.61(1.32-1.78)	
PCB-101L											
337.9207	31:36	31:37	-1		3752075	786809	123	307	6397		
339.9178	31:36	31:37	-1		2343492	489973	85	212	5764	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	0	1.147	7036968	1430234	4417	11042	324		
339.9178	36:15	36:15	0	1.147	4369848	885744	2498	6245	355	1.61(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	6977058	1420821	4417	11042	322		
339.9178	36:34	36:34	0	1.157	4393847	880594	2498	6245	353	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-114L											
337.9207	37:06	37:06	0	1.174	7064640	1396573	4417	11042	316		
339.9178	37:05	37:06	-1	1.174	4410004	866573	2498	6245	347	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:44	37:45	0	1.194	6593584	1315083	4417	11042	298		
339.9178	37:44	37:45	0	1.194	4178254	831810	2498	6245	333	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:14	-1		6873404	1319760	4417	11042	299		
339.9178	39:13	39:14	-1		4320131	844335	2498	6245	338	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:49	40:50	-1	1.292	6804853	1311983	4417	11042	297		
339.9178	40:49	40:50	-1	1.292	4293687	820299	2498	6245	328	1.58(1.32-1.78)	
PCB-104											
325.8804	25:42	25:44	-2	1.000	91641439	19929678	204	510	97695		
327.8775	25:42	25:44	-2	1.000	56952873	12327076	208	520	59265	1.61(1.32-1.78)	
PCB-96											
325.8804	26:05	26:06	-2	1.015	102542335	23072958	204	510	113103		
327.8775	26:05	26:06	-2	1.015	63175957	14145257	208	520	68006	1.62(1.32-1.78)	
PCB-103											
325.8804	28:01	28:02	-1	1.091	77236926	16910337	204	510	82894		
327.8775	28:01	28:02	-1	1.091	48027506	10390134	208	520	49953	1.61(1.32-1.78)	
PCB-94											
325.8804	28:14	28:16	-2	1.099	64361646	14100993	204	510	69123		
327.8775	28:14	28:16	-2	1.099	40042466	8717686	208	520	41912	1.61(1.32-1.78)	
PCB-95											
325.8804	28:41	28:42	-1	1.117	71189073	15374081	204	510	75363		
327.8775	28:41	28:42	-1	1.117	44561451	9459574	208	520	45479	1.60(1.32-1.78)	
PCB-93											
325.8804	28:54	28:55	-1	1.125	158361435	33130497	204	510	162404		
327.8775	28:54	28:55	-1	1.125	97310001	20216438	208	520	97194	1.63(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:54	28:55	-1	1.125	158361435	33130497	204	510	162404		
327.8775	28:54	28:55	-1	1.125	97310001	20216438	208	520	97194	1.63(1.32-1.78)	
PCB-98											
325.8804	29:03	29:04	-1	1.131	146632704	18581249	204	510	91085		
327.8775	29:03	29:04	-1	1.131	90464553	11494262	208	520	55261	1.62(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:03	29:04	-1	1.131	146632704	18581249	204	510	91085		
327.8775	29:03	29:04	-1	1.131	90464553	11494262	208	520	55261	1.62(1.32-1.78)	
PCB-88											
325.8804	29:33	29:33	-1	1.150	147628102	16750593	204	510	82111		
327.8775	29:33	29:33	-1	1.150	91202582	10353526	208	520	49777	1.62(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	-1	1.150	147628102	16750593	204	510	82111		
327.8775	29:33	29:33	-1	1.150	91202582	10353526	208	520	49777	1.62(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-84											
325.8804	29:46	29:47	-2	1.158	62771900	13215233	204	510	64781		
327.8775	29:46	29:47	-2	1.158	38930080	8148115	208	520	39174	1.61(1.32-1.78)	
PCB-89											
325.8804	30:15	30:16	-1	1.177	65561089	13914881	204	510	68210		
327.8775	30:15	30:16	-1	1.177	40810265	8540278	208	520	41059	1.61(1.32-1.78)	
PCB-121											
325.8804	30:40	30:41	-1	1.194	117242210	25241857	204	510	123735		M
327.8775	30:40	30:41	-1	1.194	72252656	15416769	208	520	74119	1.62(1.32-1.78)	M
PCB-92											
325.8804	31:02	31:03	-1	0.856	73842228	15561985	204	510	76284		M
327.8775	31:02	31:03	-1	0.856	45192573	9580350	208	520	46059	1.63(1.32-1.78)	M
PCB-90											
325.8804	31:37	31:37	0	1.231	276731051	42024193	204	510	206001		
327.8775	31:37	31:37	0	1.231	169015519	25248630	208	520	121388	1.64(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:37	31:37	0	1.231	276731051	42024193	204	510	206001		
327.8775	31:37	31:37	0	1.231	169015519	25248630	208	520	121388	1.64(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:37	31:37	0	1.231	276731051	42024193	204	510	206001		
327.8775	31:37	31:37	0	1.231	169015519	25248630	208	520	121388	1.64(1.32-1.78)	
PCB-83											
325.8804	32:12	32:13	-1	1.253	148800636	19443457	204	510	95311		
327.8775	32:12	32:13	-1	1.253	92481077	11981942	208	520	57605	1.61(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:12	32:13	-1	1.253	148800636	19443457	204	510	95311		
327.8775	32:12	32:13	-1	1.253	92481077	11981942	208	520	57605	1.61(1.32-1.78)	
PCB-112											
325.8804	32:19	32:20	-1	1.258	123930141	25631489	204	510	125645		
327.8775	32:19	32:20	-1	1.258	76647864	15734390	208	520	75646	1.62(1.32-1.78)	
PCB-86											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-119 (C86)											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-125 (C86)											M
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-85											
325.8804	33:25	33:25	0	1.301	291983408	37945601	204	510	186008		
327.8775	33:25	33:25	0	1.301	179160640	22995062	208	520	110553	1.63(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:25	33:25	0	1.301	291983408	37945601	204	510	186008		
327.8775	33:25	33:25	0	1.301	179160640	22995062	208	520	110553	1.63(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:25	33:25	0	1.301	291983408	37945601	204	510	186008		
327.8775	33:25	33:25	0	1.301	179160640	22995062	208	520	110553	1.63(1.32-1.78)	
PCB-110											
325.8804	33:36	33:37	-1	1.308	215889105	26218497	204	510	128522		
327.8775	33:36	33:37	-1	1.308	132363629	16037238	208	520	77102	1.63(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:36	33:37	-1	1.308	215889105	26218497	204	510	128522		
327.8775	33:36	33:37	-1	1.308	132363629	16037238	208	520	77102	1.63(1.32-1.78)	
PCB-82											
325.8804	33:54	33:55	-1	1.320	72783513	14579713	204	510	71469		
327.8775	33:54	33:55	-1	1.320	45306794	8962422	208	520	43089	1.61(1.32-1.78)	
PCB-111											
325.8804	34:19	34:19	0	1.336	106780366	21942785	204	510	107563		
327.8775	34:19	34:19	0	1.336	65893572	13465718	208	520	64739	1.62(1.32-1.78)	
PCB-120											
325.8804	34:46	34:47	-1	1.353	134486894	28035841	204	510	137431		
327.8775	34:46	34:47	-1	1.353	82570744	17174646	208	520	82570	1.63(1.32-1.78)	
PCB-108											
325.8804	35:54	35:55	-1	1.397	359691900	74837936	89870	224675	833		
327.8775	35:54	35:55	-1	1.397	217166378	44709148	54755	136887	817	1.66(1.32-1.78)	
PCB-124 (C108)											
325.8804	35:54	35:55	-1	1.397	359691900	74837936	89870	224675	833		
327.8775	35:54	35:55	-1	1.397	217166378	44709148	54755	136887	817	1.66(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.407	172718968	33521584	89870	224675	373		
327.8775	36:09	36:09	0	1.407	107369316	20596508	54755	136887	376	1.61(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.001	160230112	33326256	89870	224675	371		
327.8775	36:16	36:16	0	1.001	98853143	20231964	54755	136887	369	1.62(1.32-1.78)	
PCB-106											
325.8804	36:22	36:23	-1	1.004	160067274	33627824	89870	224675	374		
327.8775	36:22	36:23	-1	1.004	99138673	20763420	54755	136887	379	1.61(1.32-1.78)	
PCB-118											
325.8804	36:35	36:36	-1	1.000	174825425	34549424	89870	224675	384		
327.8775	36:35	36:36	-1	1.000	108074624	21075996	54755	136887	385	1.62(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-122											
325.8804	36:56	36:56	0	1.010	133990253	27722160	89870	224675	308		
327.8775	36:56	36:56	0	1.010	83092925	17085468	54755	136887	312	1.61(1.32-1.78)	
PCB-114											
325.8804	37:07	37:08	-1	1.000	160312832	31933104	89870	224675	355		
327.8775	37:07	37:08	-1	1.000	99594354	19609628	54755	136887	358	1.61(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	162331124	32150026	89870	224675	358		
327.8775	37:46	37:46	0	1.001	101145196	19783101	54755	136887	361	1.60(1.32-1.78)	
PCB-127											
325.8804	39:14	39:15	0	1.040	162924856	32273840	89870	224675	359		
327.8775	39:14	39:15	0	1.040	101086266	19800348	54755	136887	362	1.61(1.32-1.78)	
PCB-126											
325.8804	40:51	40:52	-1	1.001	158585239	29099978	89870	224675	324		
327.8775	40:51	40:52	-1	1.001	98397742	17806698	54755	136887	325	1.61(1.32-1.78)	
PCB-155L											
371.8817	31:22	31:23	-1	0.790	3375391	685626	73	182	9392		
373.8788	31:22	31:23	-1	0.790	2662518	549678	58	145	9477	1.27(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		4295640	816748	2233	5582	366		
373.8788	39:41	39:41	0		3322328	637083	1531	3827	416	1.29(1.05-1.43)	
PCB-159L											
371.8817	41:56	41:56	0	0.982	4754884	936530	2233	5582	419		
373.8788	41:56	41:56	0	0.982	3673590	727866	1531	3827	475	1.29(0.00-0.00)	
PCB-167L											
371.8817	42:42	42:42	0	1.076	5249808	1001272	2233	5582	448		
373.8788	42:42	42:42	0	1.076	4046405	790891	1531	3827	517	1.30(1.05-1.43)	
PCB-156L											
371.8817	43:51	43:51	1	1.105	10141823	1376667	2233	5582	617		
373.8788	43:51	43:51	1	1.105	7862023	1069682	1531	3827	699	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:51	43:51	1	1.105	10141823	1376667	2233	5582	617		
373.8788	43:51	43:51	1	1.105	7862023	1069682	1531	3827	699	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:05	47:05	0	1.186	5216558	993155	2233	5582	445		
373.8788	47:05	47:05	0	1.186	4061824	784689	1531	3827	513	1.28(1.05-1.43)	
PCB-155											
359.8415	31:24	31:25	-1	1.001	65706395	13562326	192	480	70637		
361.8385	31:24	31:25	-1	1.001	51356377	10648978	170	425	62641	1.28(1.05-1.43)	
PCB-152											
359.8415	31:35	31:36	0	1.007	71324068	14975190	192	480	77996		
361.8385	31:35	31:36	0	1.007	55992074	11665810	170	425	68622	1.27(1.05-1.43)	
PCB-150											
359.8415	31:45	31:46	-1	1.012	71628088	15006934	192	480	78161		
361.8385	31:45	31:46	-1	1.012	55762894	11615378	170	425	68326	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-136											
359.8415	32:07	32:08	-1	1.024	72449923	15091158	192	480	78600		
361.8385	32:07	32:08	-1	1.024	56265978	11739026	170	425	69053	1.29(1.05-1.43)	
PCB-145											
359.8415	32:24	32:25	-1	1.033	68489150	14361046	192	480	74797		
361.8385	32:24	32:25	-1	1.033	53482550	11300498	170	425	66474	1.28(1.05-1.43)	
PCB-148											
359.8415	33:56	33:57	-1	1.082	54371007	11316356	192	480	58939		
361.8385	33:56	33:57	-1	1.082	42774983	8842898	170	425	52017	1.27(1.05-1.43)	
PCB-135											
359.8415	34:31	34:32	-1	1.100	103820478	11980899	192	480	62401		M
361.8385	34:31	34:32	-1	1.100	81482346	9409403	170	425	55349	1.27(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:31	34:32	-1	1.100	103820478	11980899	192	480	62401		M
361.8385	34:31	34:32	-1	1.100	81482346	9409403	170	425	55349	1.27(1.05-1.43)	M
PCB-154											
359.8415	34:46	34:47	-1	1.109	58114683	12025446	192	480	62633		
361.8385	34:46	34:47	-1	1.109	45565308	9399698	170	425	55292	1.28(1.05-1.43)	
PCB-144											
359.8415	35:05	35:06	-1	1.118	54042862	11115878	192	480	57895		
361.8385	35:05	35:06	-1	1.118	42319176	8692370	170	425	51132	1.28(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	200483332	43211349	23763	59407	1818		
361.8385	35:27	35:27	0	1.130	156819559	33479555	15556	38890	2152	1.28(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	200483332	43211349	23763	59407	1818		
361.8385	35:27	35:27	0	1.130	156819559	33479555	15556	38890	2152	1.28(1.05-1.43)	
PCB-134											
359.8415	35:45	35:45	-1	1.139	162847019	17534351	23763	59407	738		
361.8385	35:45	35:45	-1	1.139	128294482	13724803	15556	38890	882	1.27(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:45	35:45	-1	1.139	162847019	17534351	23763	59407	738		
361.8385	35:45	35:45	-1	1.139	128294482	13724803	15556	38890	882	1.27(1.05-1.43)	
PCB-139											
359.8415	36:03	36:04	-1	1.149	195711517	37761228	23763	59407	1589		
361.8385	36:03	36:04	-1	1.149	153569020	29441667	15556	38890	1893	1.27(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:03	36:04	-1	1.149	195711517	37761228	23763	59407	1589		
361.8385	36:03	36:04	-1	1.149	153569020	29441667	15556	38890	1893	1.27(1.05-1.43)	
PCB-131											
359.8415	36:15	36:15	-1	1.155	81022824	16396532	23763	59407	690		
361.8385	36:15	36:15	-1	1.155	64182080	12983683	15556	38890	835	1.26(1.05-1.43)	
PCB-142											
359.8415	36:23	36:24	-1	1.160	82460255	17122833	23763	59407	721		
361.8385	36:23	36:24	-1	1.160	64992454	13576835	15556	38890	873	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-132											
359.8415	36:42	36:43	-1	1.170	75403630	15508049	23763	59407	653		
361.8385	36:42	36:43	-1	1.170	59328853	12227459	15556	38890	786	1.27(1.05-1.43)	
PCB-133											
359.8415	37:13	37:14	-1	1.186	82622143	16295272	23763	59407	686		
361.8385	37:13	37:14	-1	1.186	65107881	12852802	15556	38890	826	1.27(1.05-1.43)	
PCB-165											
359.8415	37:37	37:37	0	0.881	106965169	21398791	23763	59407	901		
361.8385	37:37	37:37	0	0.881	84140799	16827523	15556	38890	1082	1.27(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	-1	0.887	102556513	20464185	23763	59407	861		
361.8385	37:52	37:52	-1	0.887	81231392	16215939	15556	38890	1042	1.26(1.05-1.43)	
PCB-161											
359.8415	37:59	38:00	0	0.890	122208045	25964884	23763	59407	1093		
361.8385	37:59	38:00	0	0.890	95738385	20221315	15556	38890	1300	1.28(1.05-1.43)	
PCB-153											
359.8415	38:29	38:30	0	0.901	243532467	37310649	23763	59407	1570		
361.8385	38:29	38:30	0	0.901	190216690	28949635	15556	38890	1861	1.28(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:29	38:30	0	0.901	243532467	37310649	23763	59407	1570		
361.8385	38:29	38:30	0	0.901	190216690	28949635	15556	38890	1861	1.28(1.05-1.43)	
PCB-141											
359.8415	38:40	38:41	-1	0.905	87183530	16663515	23763	59407	701		
361.8385	38:40	38:41	-1	0.905	68693132	13112195	15556	38890	843	1.27(1.05-1.43)	
PCB-130											
359.8415	39:04	39:05	-1	0.915	70590154	14191917	23763	59407	597		
361.8385	39:04	39:05	-1	0.915	55845406	11226755	15556	38890	722	1.26(1.05-1.43)	
PCB-137											
359.8415	39:18	39:18	0	0.920	81266004	16759642	23763	59407	705		
361.8385	39:18	39:18	0	0.920	64386158	13221507	15556	38890	850	1.26(1.05-1.43)	
PCB-164											
359.8415	39:25	39:26	-1	0.923	110180720	21678450	23763	59407	912		
361.8385	39:25	39:26	-1	0.923	86456317	16986755	15556	38890	1092	1.27(1.05-1.43)	
PCB-129											
359.8415	39:44	39:44	0	0.930	427397226	54463465	23763	59407	2292		M
361.8385	39:44	39:44	0	0.930	336254921	42135505	15556	38890	2709	1.27(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:44	39:44	0	0.930	427397226	54463465	23763	59407	2292		M
361.8385	39:44	39:44	0	0.930	336254921	42135505	15556	38890	2709	1.27(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:44	39:44	0	0.930	427397226	54463465	23763	59407	2292		M
361.8385	39:44	39:44	0	0.930	336254921	42135505	15556	38890	2709	1.27(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:44	39:44	0	0.930	427397226	54463465	23763	59407	2292		M
361.8385	39:44	39:44	0	0.930	336254921	42135505	15556	38890	2709	1.27(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-158											
359.8415	40:06	40:07	0	0.939	134649798	25747198	23763	59407	1084		
361.8385	40:06	40:07	0	0.939	105576017	20078467	15556	38890	1291	1.28(1.05-1.43)	
PCB-128											
359.8415	40:57	40:57	0	0.959	224532589	36841557	23763	59407	1550		
361.8385	40:57	40:57	0	0.959	176262841	28855584	15556	38890	1855	1.27(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	224532589	36841557	23763	59407	1550		
361.8385	40:57	40:57	0	0.959	176262841	28855584	15556	38890	1855	1.27(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.983	150673522	30877043	23763	59407	1299		
361.8385	41:58	41:58	0	0.983	118194096	24096899	15556	38890	1549	1.27(1.05-1.43)	
PCB-162											
359.8415	42:15	42:15	0	0.990	127518301	24165293	23763	59407	1017		
361.8385	42:15	42:15	0	0.990	100356891	18921603	15556	38890	1216	1.27(1.05-1.43)	
PCB-167											
359.8415	42:43	42:44	0	1.001	119669602	23770381	23763	59407	1000		
361.8385	42:43	42:44	0	1.001	94138110	18595971	15556	38890	1195	1.27(1.05-1.43)	
PCB-156											
359.8415	43:53	43:53	0	1.001	235593787	33821858	23763	59407	1423		
361.8385	43:53	43:53	0	1.001	186630098	26543048	15556	38890	1706	1.26(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:53	43:53	0	1.001	235593787	33821858	23763	59407	1423		
361.8385	43:53	43:53	0	1.001	186630098	26543048	15556	38890	1706	1.26(1.05-1.43)	
PCB-169											
359.8415	47:06	47:06	0	1.001	123900521	23210929	23763	59407	977		
361.8385	47:06	47:06	0	1.001	96925792	18089681	15556	38890	1163	1.28(1.05-1.43)	
PCB-188L											
405.8428	37:06	37:07	-1	0.820	3810326	749037	139	347	5389		
407.8398	37:06	37:07	-1	0.820	3630304	723097	71	177	10184	1.05(0.89-1.21)	
PCB-180L											
405.8428	45:15	45:15	0		2912463	555051	139	347	3993		
407.8398	45:15	45:15	0		2653771	494294	71	177	6962	1.10(0.89-1.21)	
PCB-170L											
405.8428	46:30	46:30	0	1.028	2282840	420841	139	347	3028		
407.8398	46:30	46:30	0	1.028	2121333	391359	71	177	5512	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:37	49:37	0	1.096	5686955	1057620	686	1715	1542		
407.8398	49:37	49:37	0	1.096	5360571	997675	1347	3367	741	1.06(0.89-1.21)	
PCB-188											
393.8025	37:07	37:08	-1	1.001	88590608	18021968	211	527	85412		
395.7995	37:07	37:08	-1	1.001	83467622	17002107	131	327	129787	1.06(0.89-1.21)	
PCB-179											
393.8025	37:27	37:28	-1	1.010	87088746	17711221	211	527	83939		
395.7995	37:27	37:28	-1	1.010	82206017	16754555	131	327	127897	1.06(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-184											
393.8025	37:59	38:00	0	1.024	89044754	17993333	211	527	85276		
395.7995	37:59	38:00	0	1.024	84535271	16957563	131	327	129447	1.05(0.89-1.21)	
PCB-176											
393.8025	38:20	38:21	-1	1.033	75912817	15207541	211	527	72074		
395.7995	38:20	38:21	-1	1.033	71908028	14408059	131	327	109985	1.06(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	0	1.046	94010378	18645621	211	527	88368		
395.7995	38:48	38:48	0	1.046	89347657	17743739	131	327	135448	1.05(0.89-1.21)	
PCB-178											
393.8025	40:10	40:11	-1	1.083	55938483	10960757	211	527	51947		
395.7995	40:10	40:11	-1	1.083	52592596	10324347	131	327	78812	1.06(0.89-1.21)	
PCB-175											
393.8025	40:48	40:49	-1	1.100	58681950	11492981	211	527	54469		
395.7995	40:48	40:49	-1	1.100	55852897	10954619	131	327	83623	1.05(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	69711534	13878901	211	527	65777		
395.7995	41:05	41:05	0	1.107	65998621	13174139	131	327	100566	1.06(0.89-1.21)	
PCB-182											
393.8025	41:17	41:18	-1	1.113	58163539	11271541	211	527	53420		
395.7995	41:17	41:18	-1	1.113	55170035	10674555	131	327	81485	1.05(0.89-1.21)	
PCB-183											
393.8025	41:42	41:42	0	1.124	117147097	12359720	211	527	58577		Ma
395.7995	41:42	41:42	0	1.124	109695368	11725491	131	327	89508	1.07(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:42	41:42	0	1.124	117147097	12359720	211	527	58577		Ma
395.7995	41:42	41:42	0	1.124	109695368	11725491	131	327	89508	1.07(0.89-1.21)	M
PCB-174											
393.8025	41:56	41:56	0	1.130	61920573	12119925	211	527	57440		
395.7995	41:56	41:56	0	1.130	58857494	11538299	131	327	88079	1.05(0.89-1.21)	
PCB-177											
393.8025	42:22	42:22	0	1.142	59424413	11026805	211	527	52260		
395.7995	42:21	42:22	-1	1.142	56441168	10389883	131	327	79312	1.05(0.89-1.21)	
PCB-181											
393.8025	42:45	42:45	0	1.152	59210779	11665013	211	527	55284		
395.7995	42:45	42:45	0	1.152	56007586	11011195	131	327	84055	1.06(0.89-1.21)	
PCB-171											
393.8025	42:58	42:59	0	1.158	114380196	20149365	211	527	95495		
395.7995	42:58	42:59	0	1.158	108415012	19154811	131	327	146220	1.06(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:58	42:59	0	1.158	114380196	20149365	211	527	95495		
395.7995	42:58	42:59	0	1.158	108415012	19154811	131	327	146220	1.06(0.89-1.21)	
PCB-172											
393.8025	44:37	44:37	0	0.899	50296390	9575285	211	527	45381		
395.7995	44:37	44:37	0	0.899	48184037	9183355	131	327	70102	1.04(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-192											
393.8025	44:54	44:54	0	0.905	84437333	16501621	211	527	78207		
395.7995	44:54	44:54	0	0.905	79991603	15661179	131	327	119551	1.06(0.89-1.21)	
PCB-180											
393.8025	45:14	45:14	0	0.912	147423551	20060533	211	527	95074		
395.7995	45:14	45:14	0	0.912	139888927	19041659	131	327	145356	1.05(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	147423551	20060533	211	527	95074		
395.7995	45:14	45:14	0	0.912	139888927	19041659	131	327	145356	1.05(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.919	80941413	15733877	211	527	74568		
395.7995	45:37	45:37	0	0.919	75977242	14856059	131	327	113405	1.07(0.89-1.21)	
PCB-170											
393.8025	46:31	46:32	0	0.938	53503962	10206837	211	527	48374		
395.7995	46:31	46:32	0	0.938	50804365	9646203	131	327	73635	1.05(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	81369215	15287669	211	527	72453		
395.7995	47:02	47:02	0	0.948	76983210	14562171	131	327	111162	1.06(0.89-1.21)	
PCB-189											
393.8025	49:38	49:38	0	1.000	112922183	21964048	3458	8645	6352		
395.7995	49:38	49:38	0	1.000	108477497	21166671	3184	7960	6648	1.04(0.89-1.21)	
PCB-202L											
439.8038	42:28	42:28	0	0.821	2498219	475987	64	160	7437		
441.8008	42:28	42:28	0	0.821	2801438	526051	121	302	4348	0.89(0.76-1.02)	
PCB-194L											
439.8038	51:43	51:43	0		3592214	660804	196	490	3371		
441.8008	51:43	51:43	1		3885779	721433	169	422	4269	0.92(0.76-1.02)	
PCB-205L											
439.8038	52:11	52:11	0	1.009	4229058	753316	196	490	3843		
441.8008	52:11	52:11	0	1.009	4594231	825501	169	422	4885	0.92(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	54297981	10483901	148	370	70837		
429.7606	42:29	42:29	0	1.001	60538224	11651819	127	317	91747	0.90(0.76-1.02)	
PCB-201											
427.7635	43:24	43:25	0	1.022	49654885	9560253	148	370	64596		
429.7606	43:24	43:25	0	1.022	55095929	10561452	127	317	83161	0.90(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	52752859	10231485	148	370	69132		
429.7606	44:05	44:05	0	1.038	58357176	11309996	127	317	89055	0.90(0.76-1.02)	
PCB-197											
427.7635	44:19	44:19	0	1.044	56582273	10830269	148	370	73177		
429.7606	44:19	44:19	0	1.044	63095428	12039340	127	317	94798	0.90(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	50924709	10079933	148	370	68108		
429.7606	44:25	44:25	0	1.046	56418474	11160492	127	317	87878	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-198											
427.7635	47:12	47:12	0	1.112	89927644	11538109	148	370	77960		
429.7606	47:12	47:12	0	1.112	100138810	12784556	127	317	100666	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.112	89927644	11538109	148	370	77960		
429.7606	47:12	47:12	0	1.112	100138810	12784556	127	317	100666	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.917	38498870	7361120	148	370	49737		
429.7606	47:53	47:53	0	0.917	42578105	8018111	127	317	63135	0.90(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	0	0.921	46981287	8847805	148	370	59782		
429.7606	48:05	48:05	0	0.921	51712560	9816492	127	317	77295	0.91(0.76-1.02)	
PCB-195											
427.7635	49:24	49:23	1	0.947	72820219	13840162	2371	5927	5837		
429.7606	49:24	49:23	1	0.947	81327625	15453088	3297	8242	4687	0.90(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.991	81740556	15676873	2371	5927	6612		
429.7606	51:44	51:44	0	0.991	91827173	17696528	3297	8242	5367	0.89(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	0	1.000	93687224	17590743	2371	5927	7419		
429.7606	52:13	52:13	0	1.000	104944384	19787457	3297	8242	6002	0.89(0.76-1.02)	
PCB-208L											
473.7648	49:08	49:09	0	0.950	3260539	614013	931	2327	660		
475.7619	49:08	49:09	0	0.950	4015145	752424	560	1400	1344	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:56	53:57	0	1.043	2334750	421215	931	2327	452		
475.7619	53:56	53:57	0	1.043	2861733	516695	560	1400	923	0.82(0.65-0.89)	
PCB-208											
461.7246	49:10	49:10	0	1.001	73033644	14091736	3209	8022	4391		
463.7216	49:10	49:10	0	1.001	93621692	18104805	3040	7600	5956	0.78(0.65-0.89)	
PCB-207											
461.7246	50:05	50:05	0	1.019	74939361	14301127	3209	8022	4457		
463.7216	50:05	50:05	0	1.019	96043653	18416076	3040	7600	6058	0.78(0.65-0.89)	
PCB-206											
461.7246	53:58	53:58	0	1.000	58039089	10750763	3209	8022	3350		M
463.7216	53:58	53:58	0	1.000	74588363	13891142	3040	7600	4569	0.78(0.65-0.89)	M
PCB-209L											
507.7258	55:35	55:34	1	1.075	2043151	345671	197	492	1755		
509.7229	55:35	55:34	1	1.075	2859018	491621	78	195	6303	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:35	55:36	0	1.000	44895758	7820681	72	180	108621		
497.6826	55:35	55:36	0	1.000	64330706	11324650	62	155	182656	0.70(0.59-0.79)	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L51668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

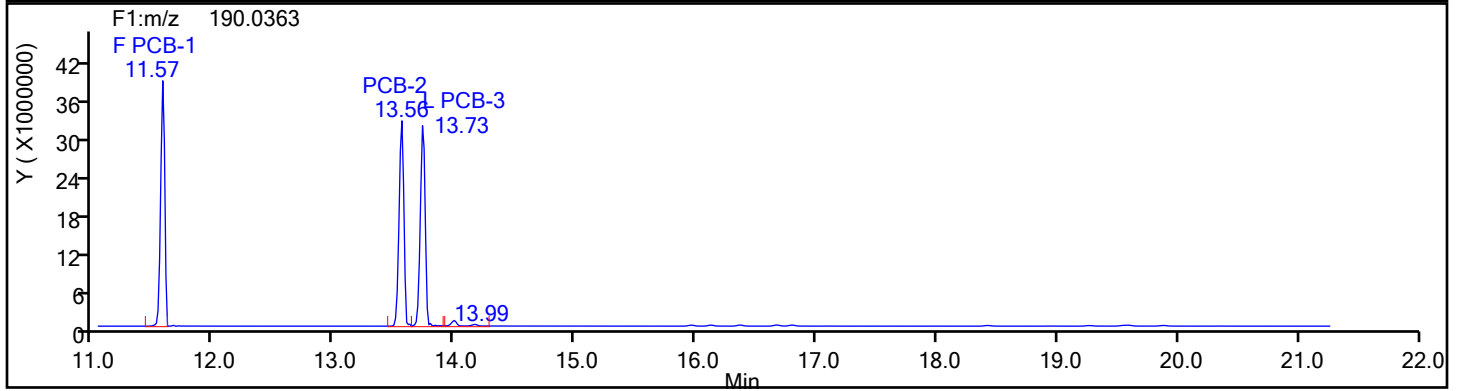
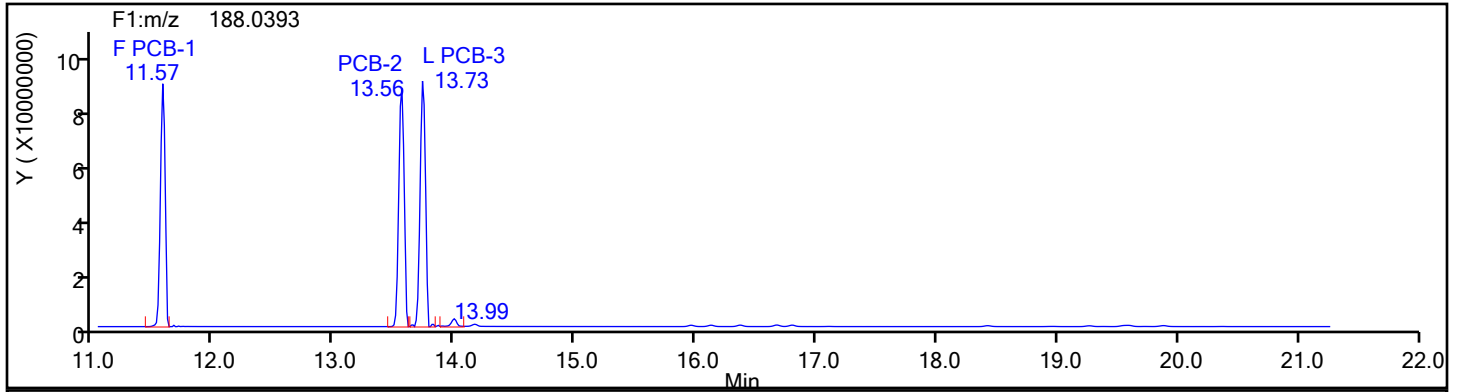
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Sample Line#: 6

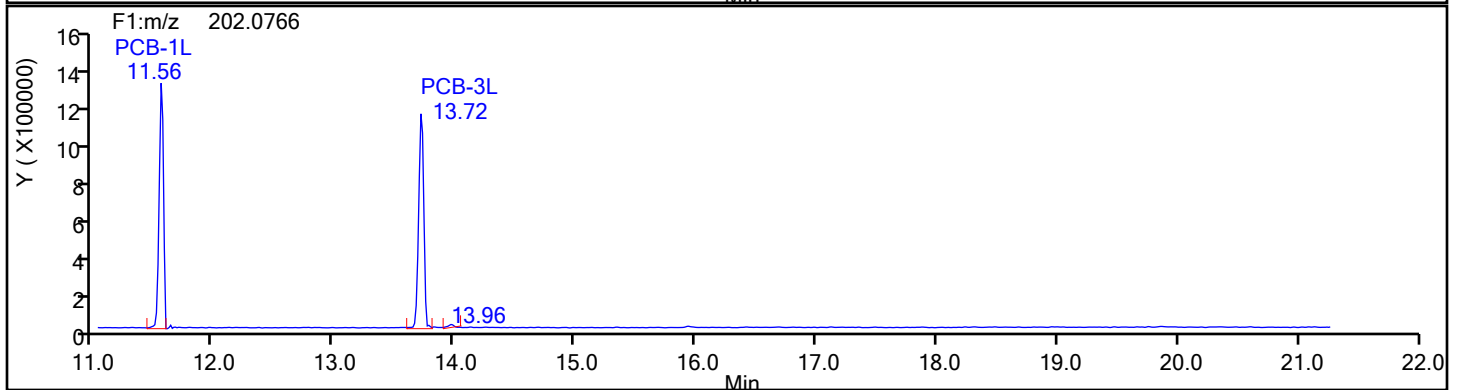
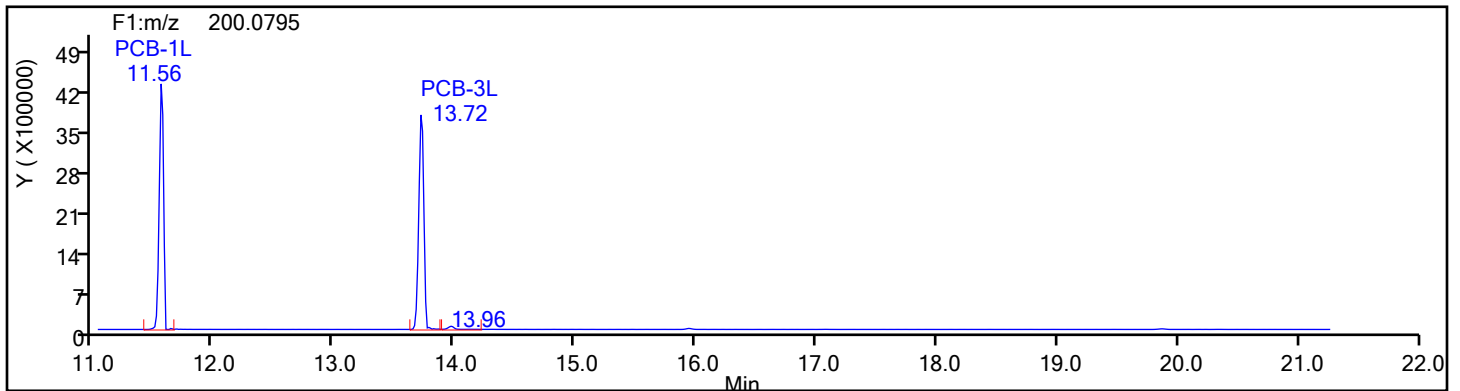
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

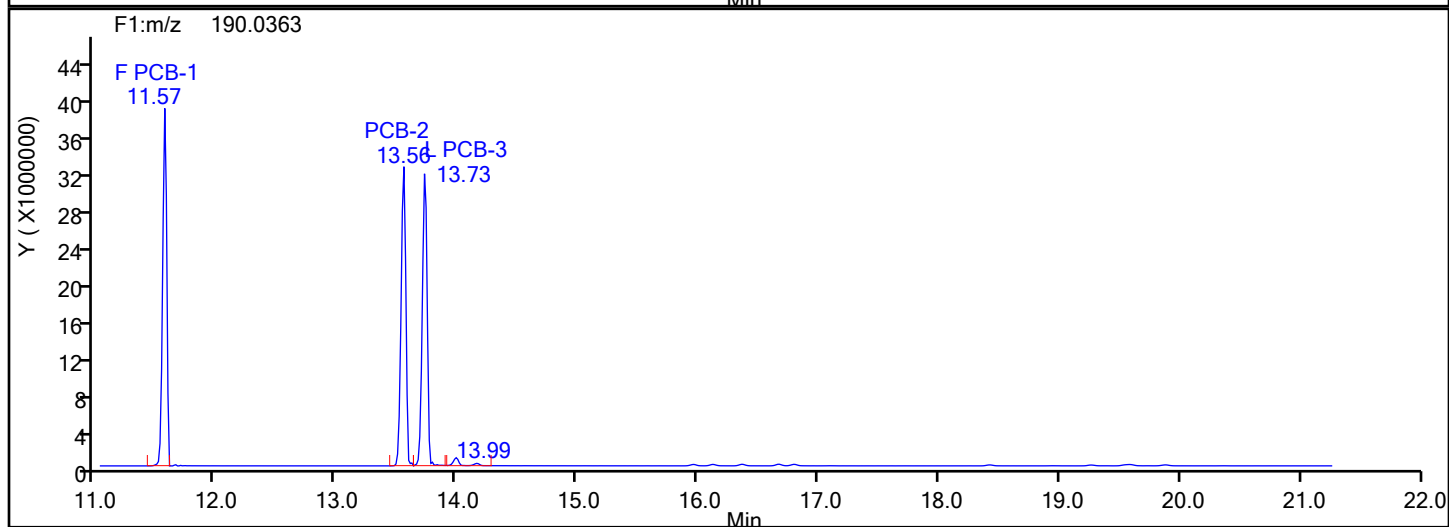
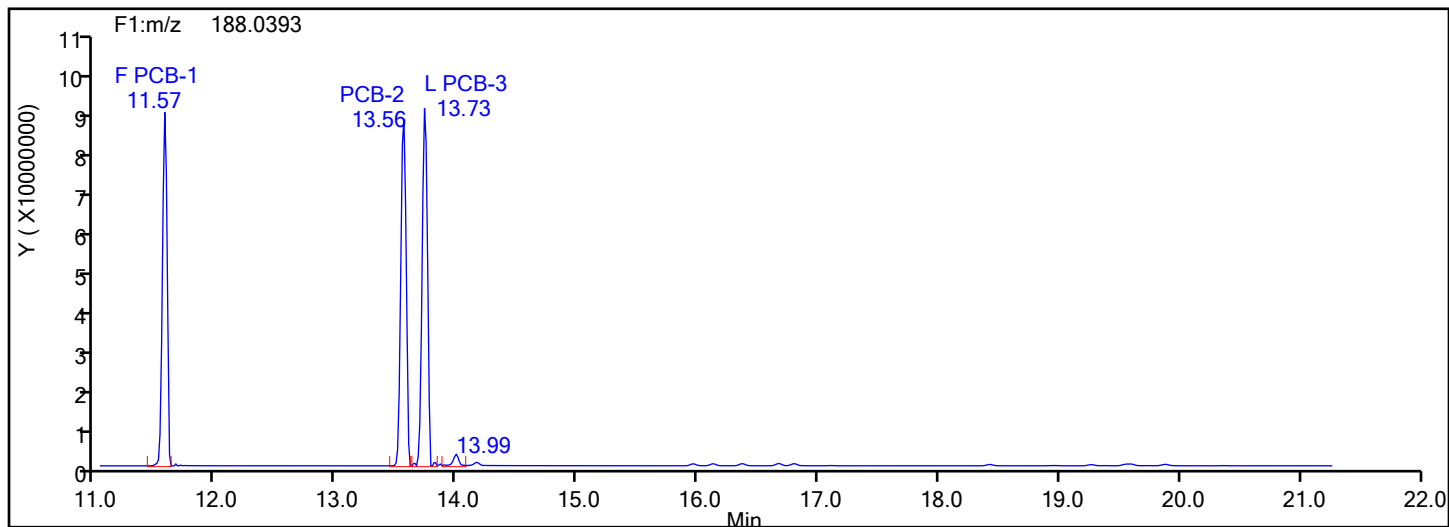
Worklist#: 87130

Sample Line#: 6

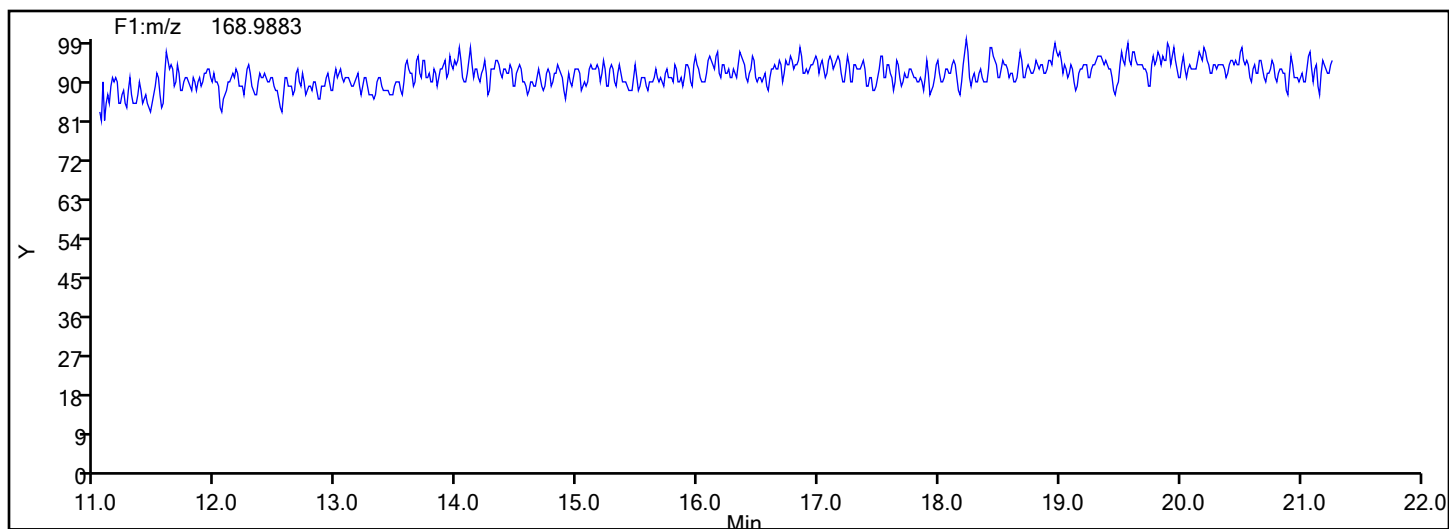
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

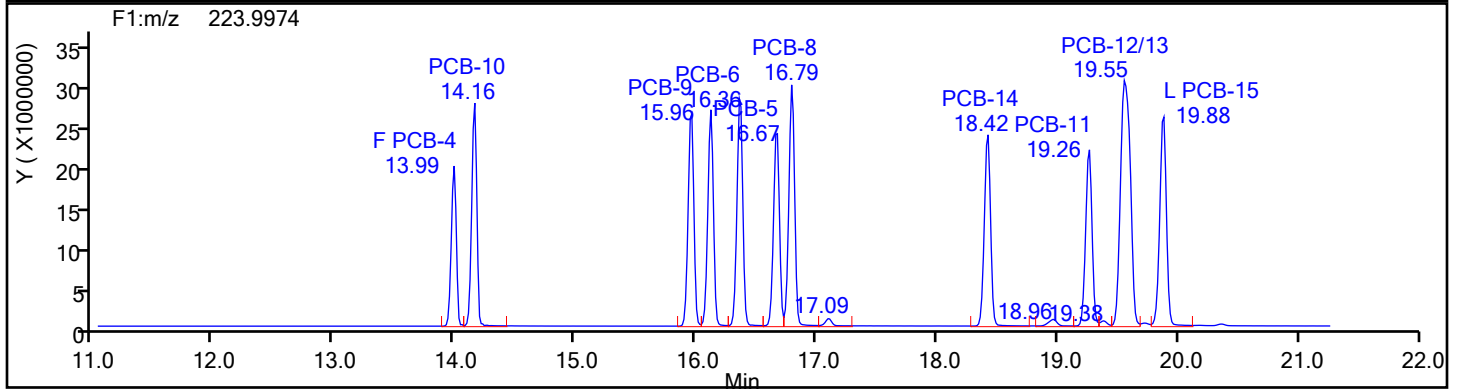
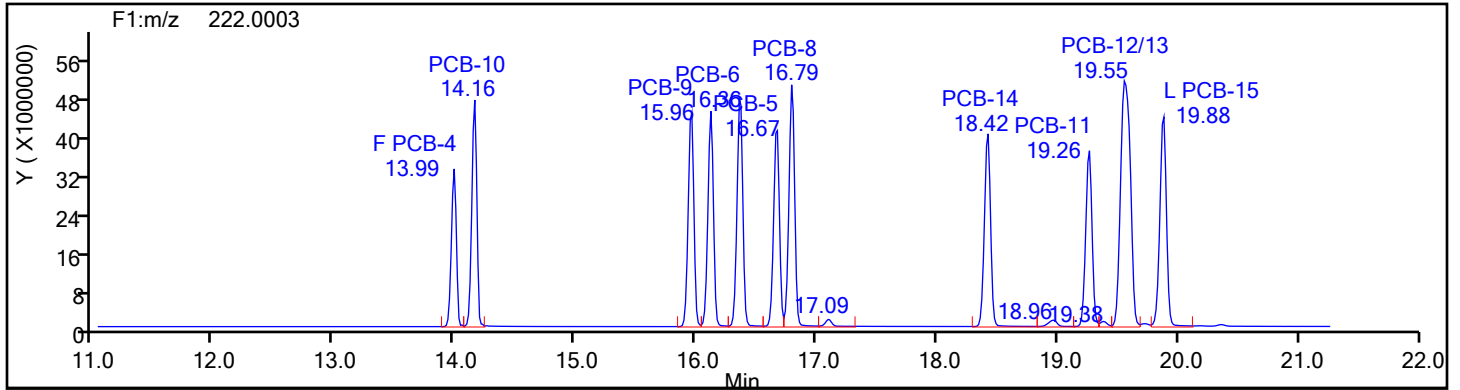
Worklist#: 87130

Sample Line#: 6

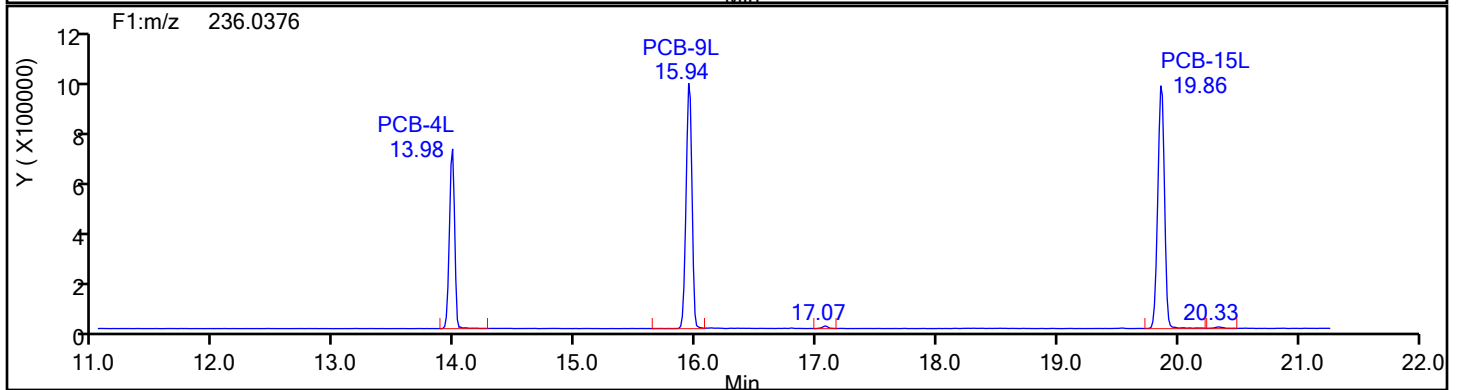
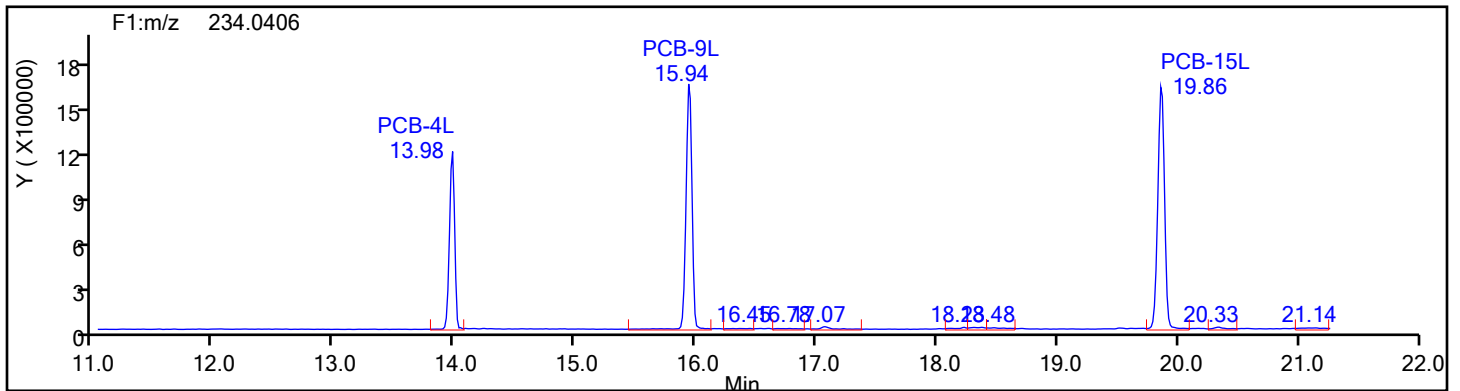
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

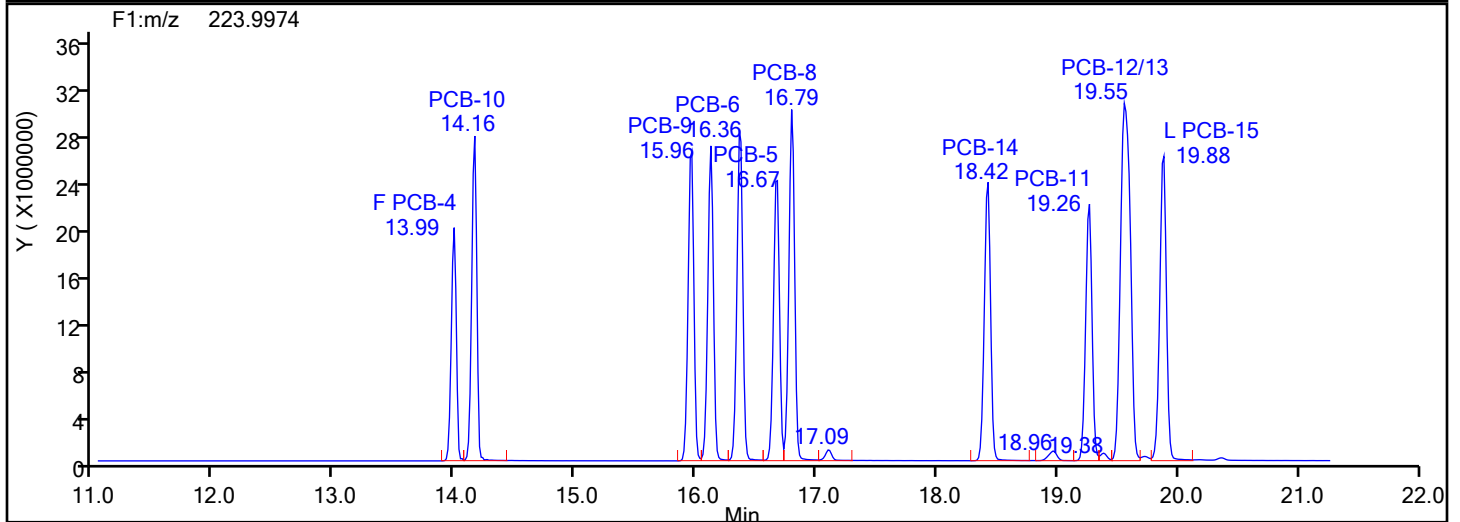
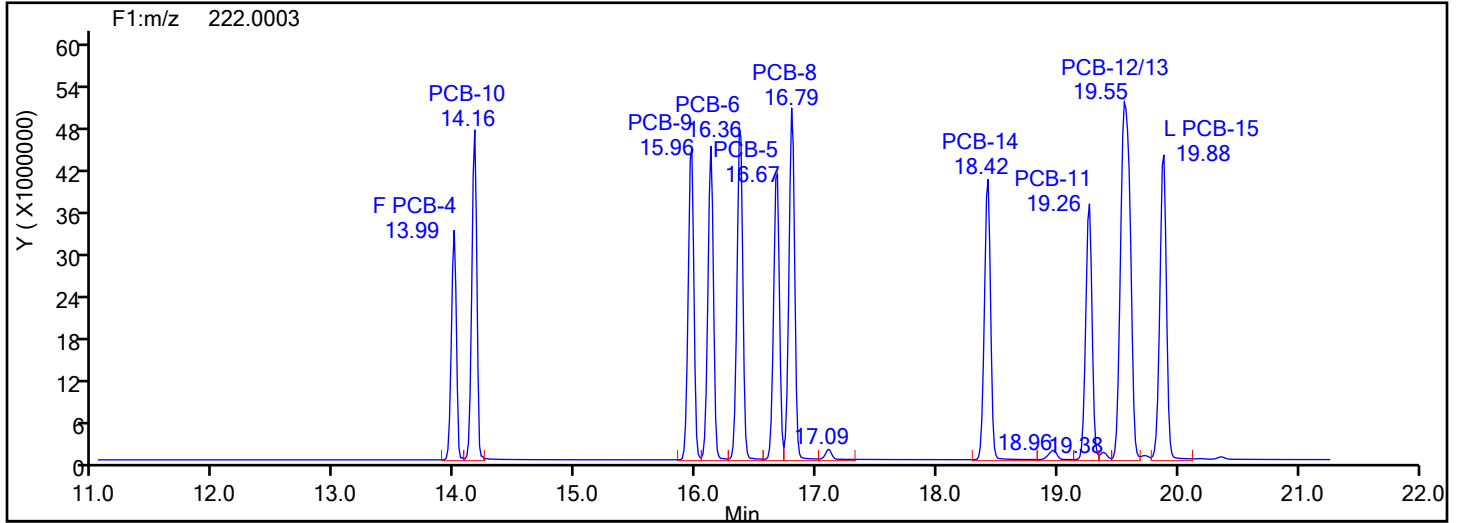
Worklist#: 87130

Sample Line#: 6

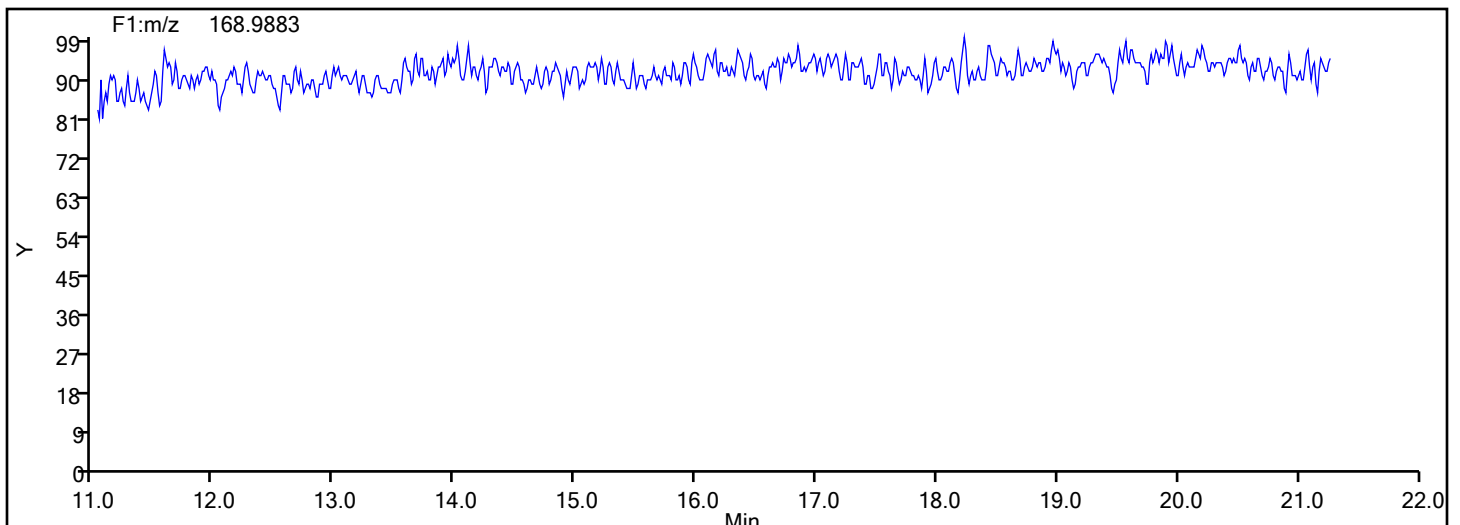
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

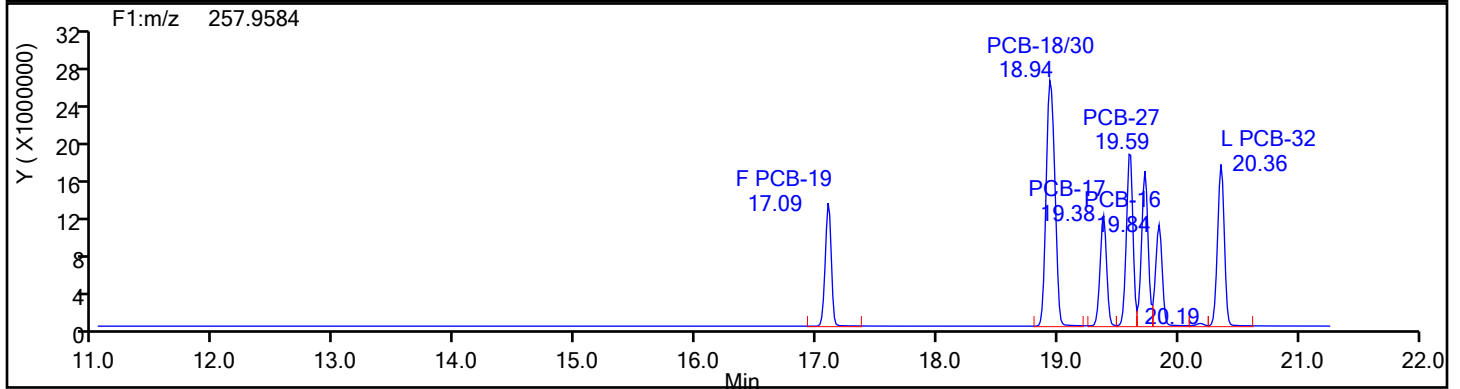
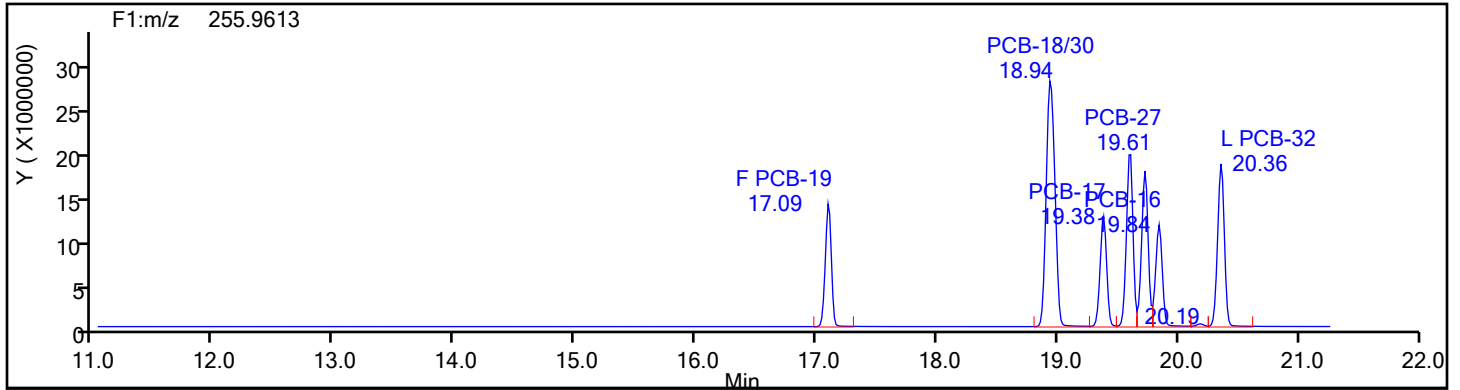
Worklist#: 87130

Sample Line#: 6

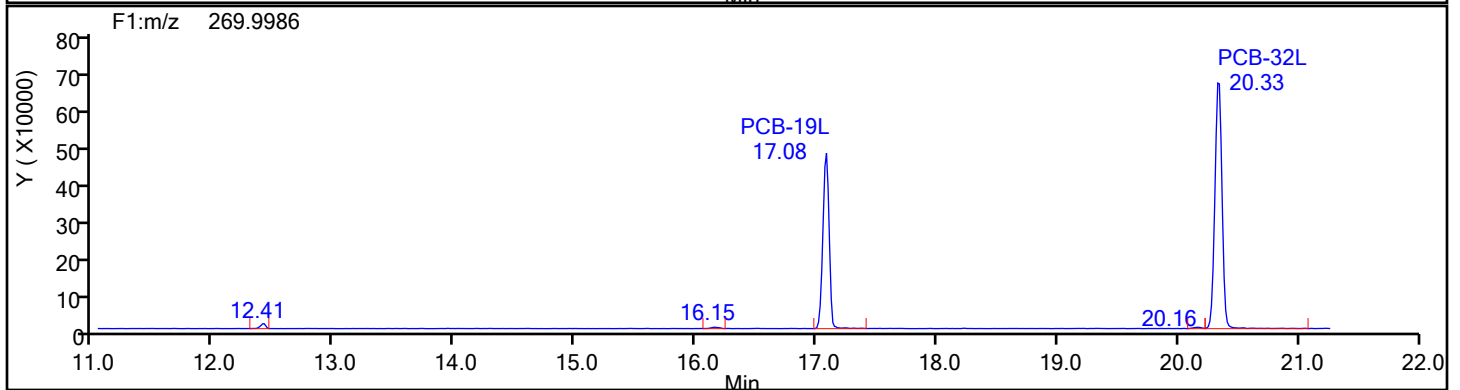
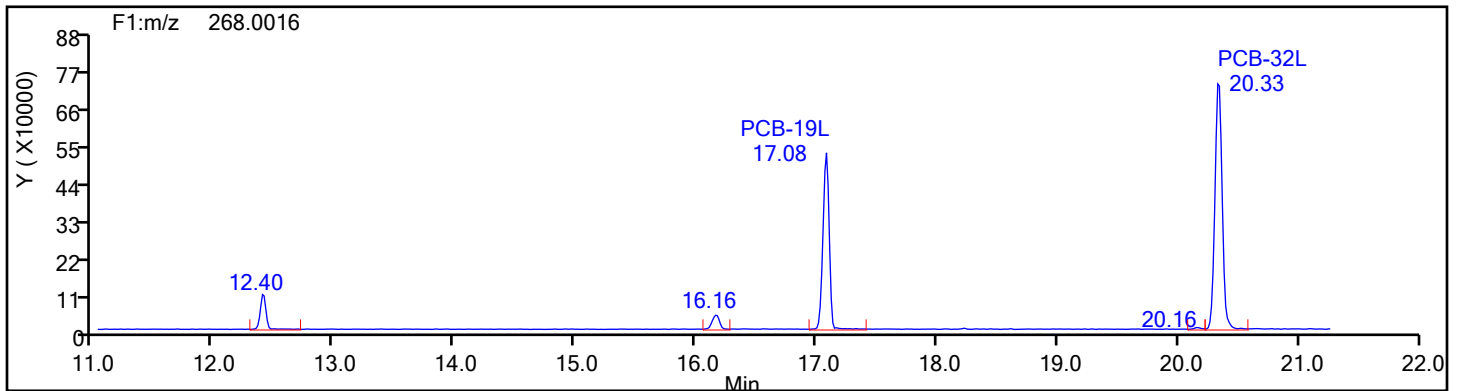
Column Type: SPB-Octyl

Column Dia: 0.25 mm

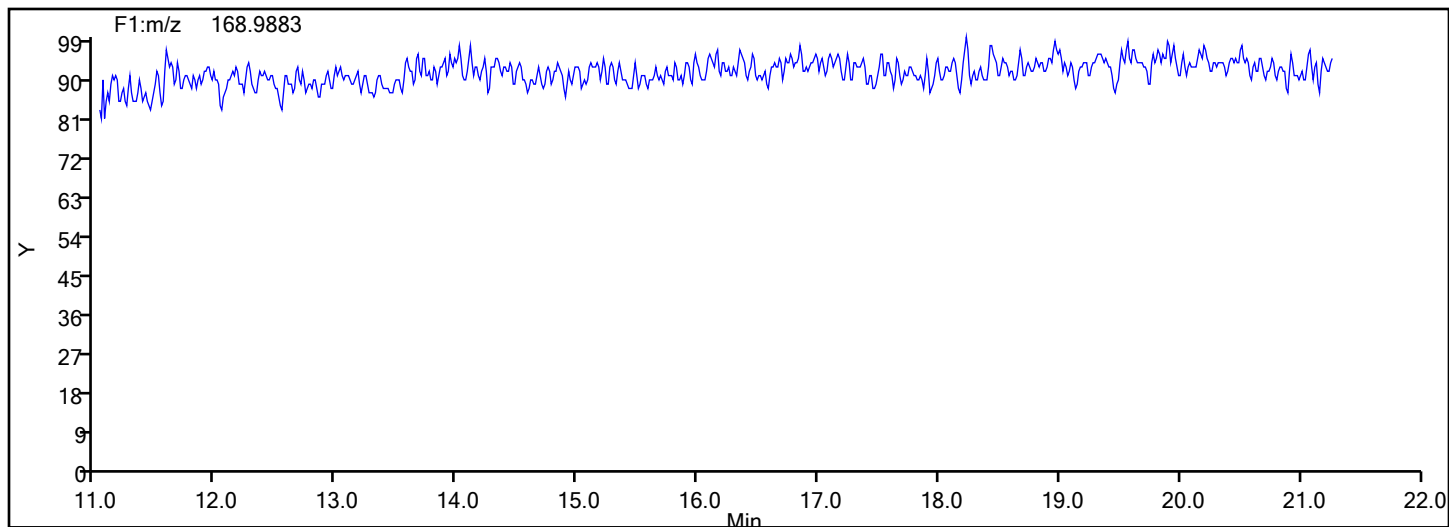
TriPCB F1



TriPCB F1 Standards



TriPCB F1



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

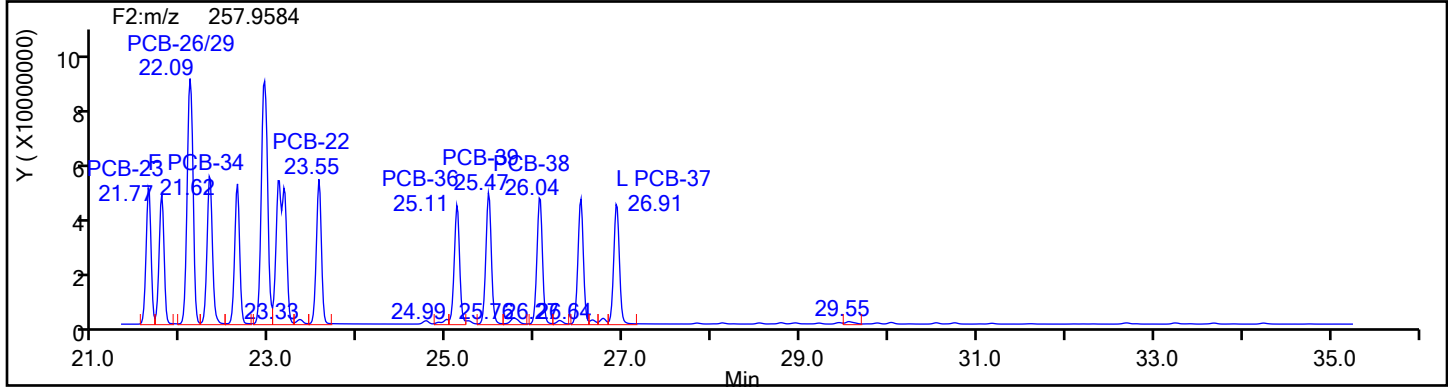
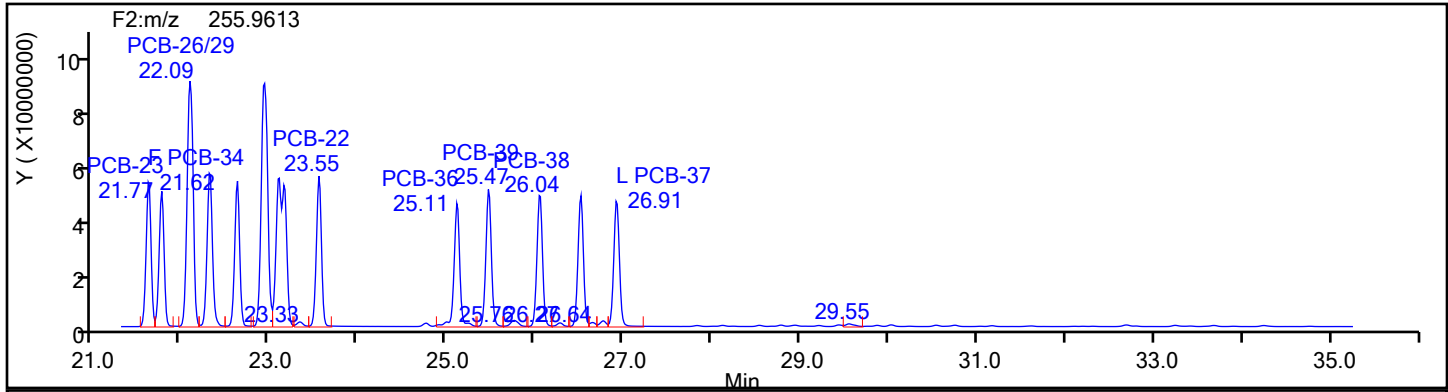
Worklist#: 87130

Sample Line#: 6

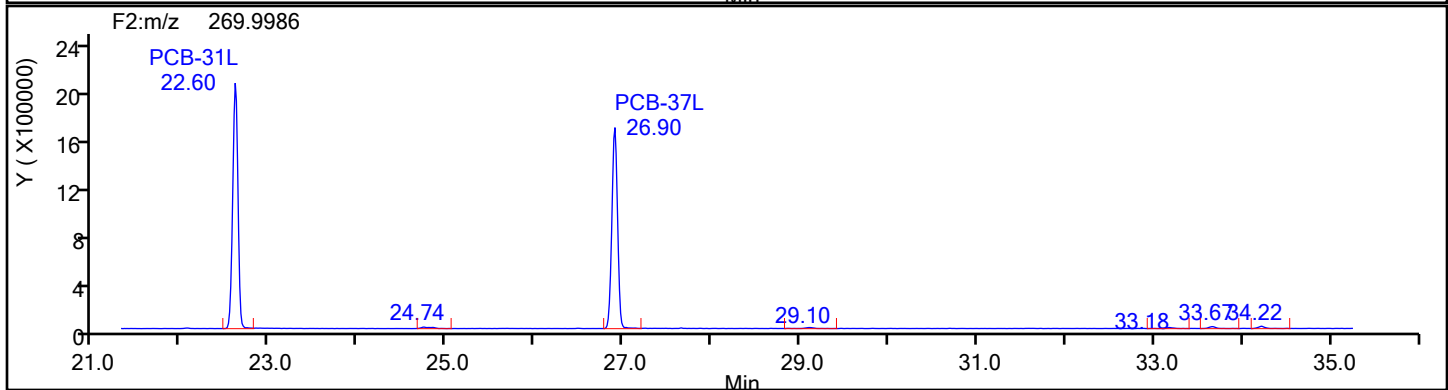
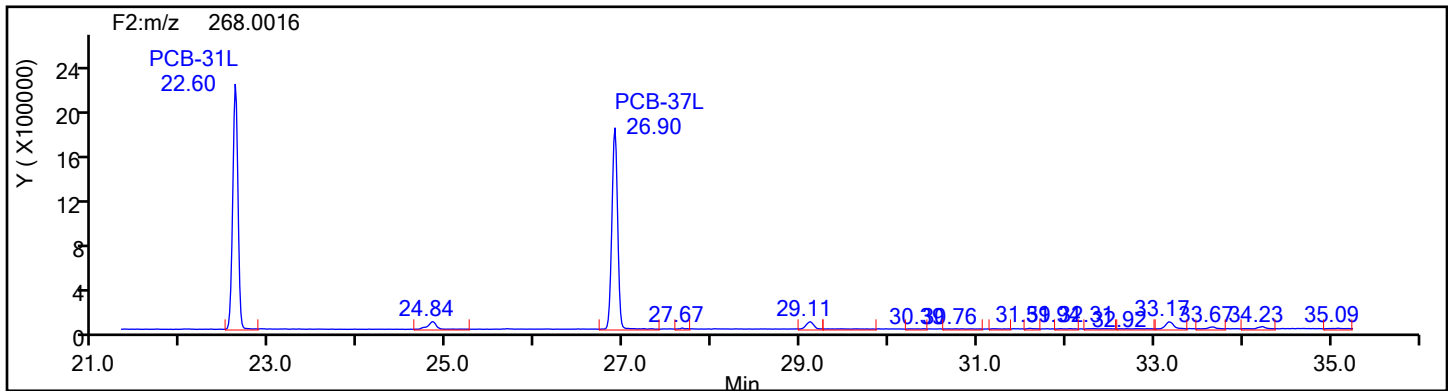
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

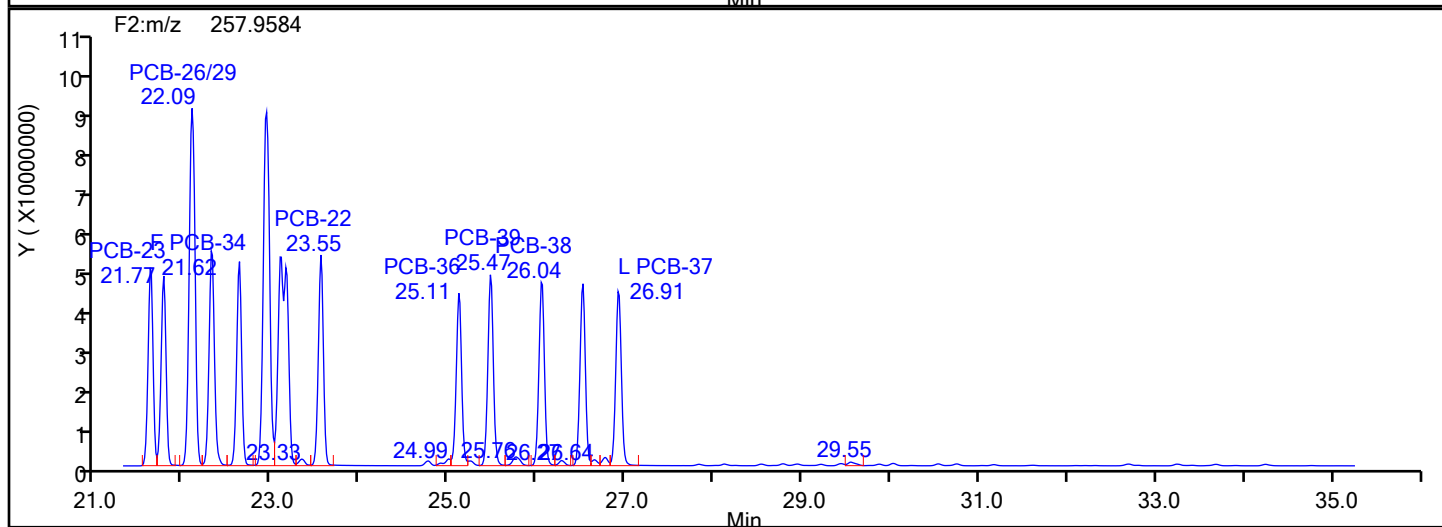
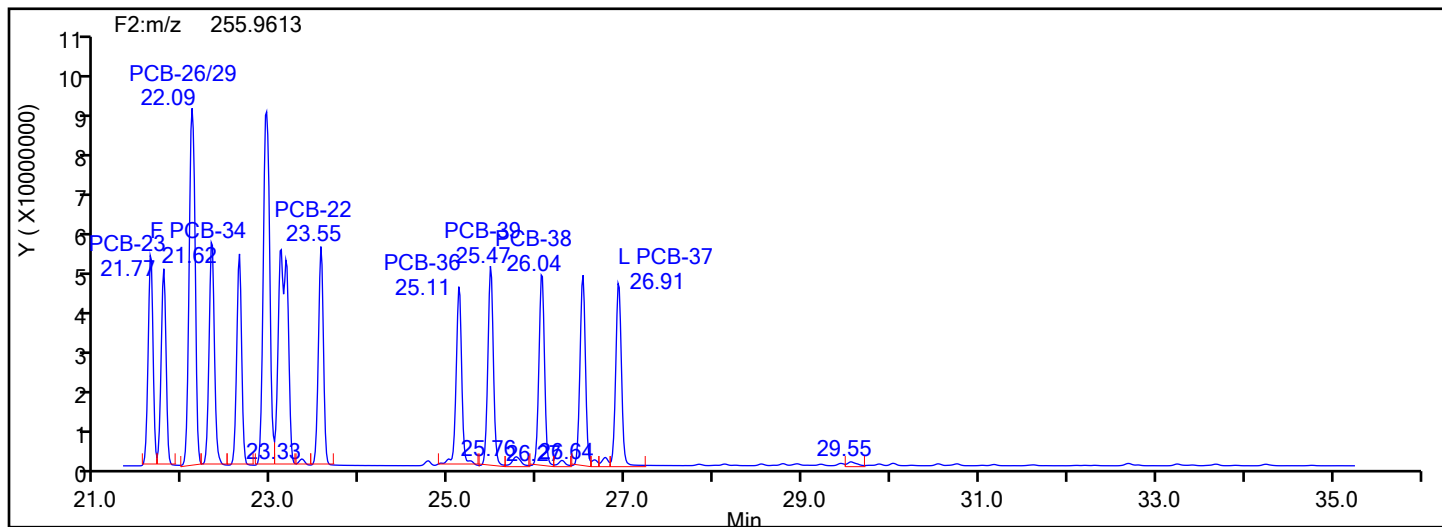
Worklist#: 87130

Sample Line#: 6

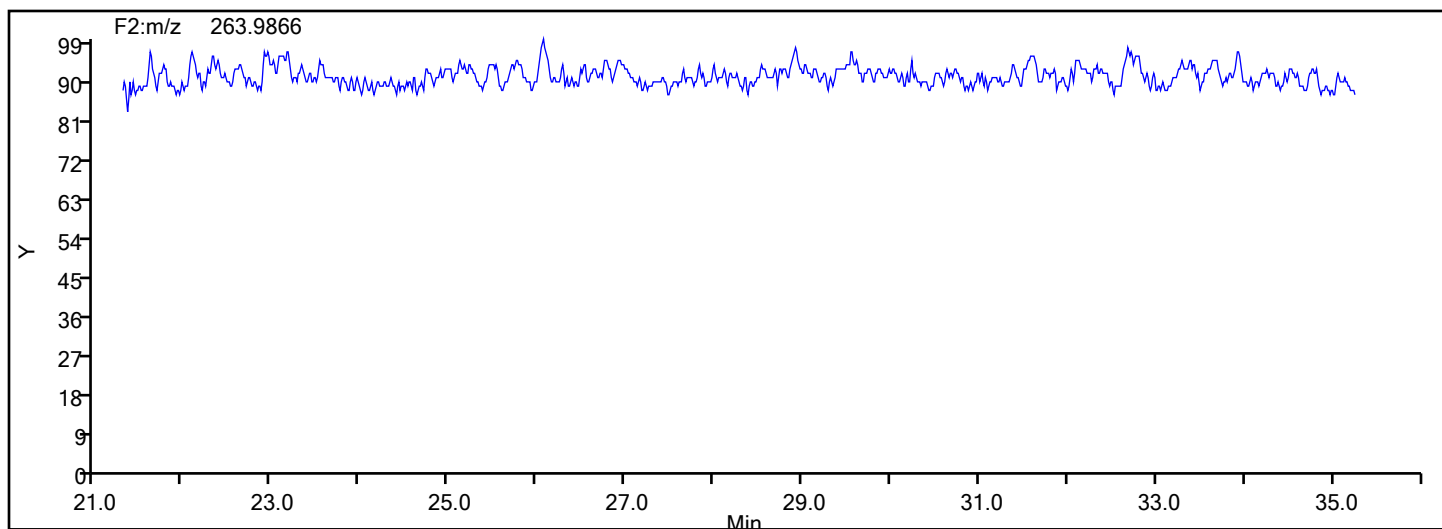
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

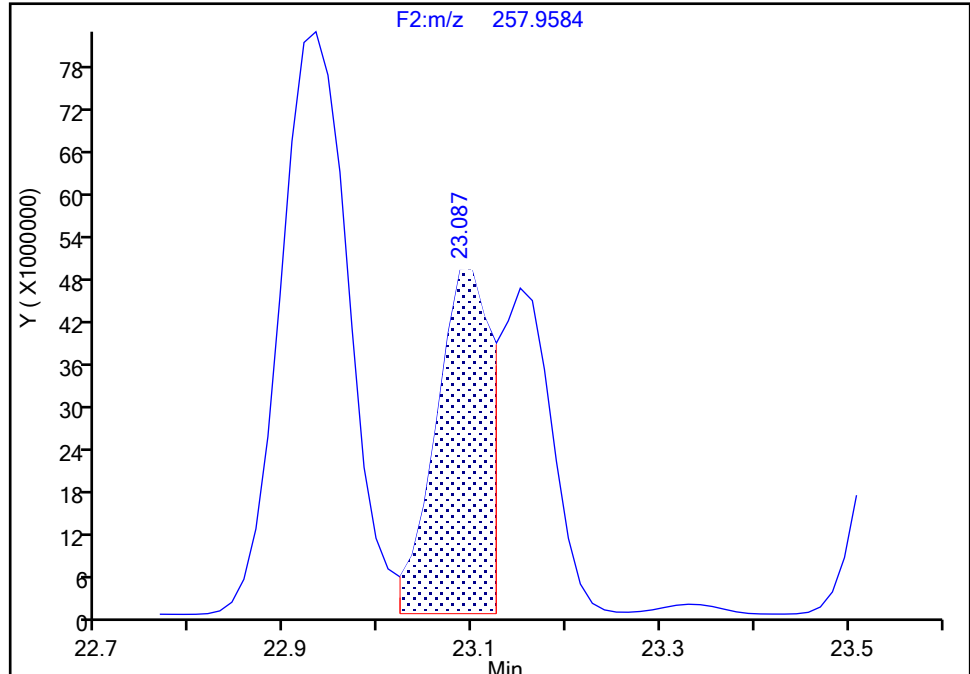
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

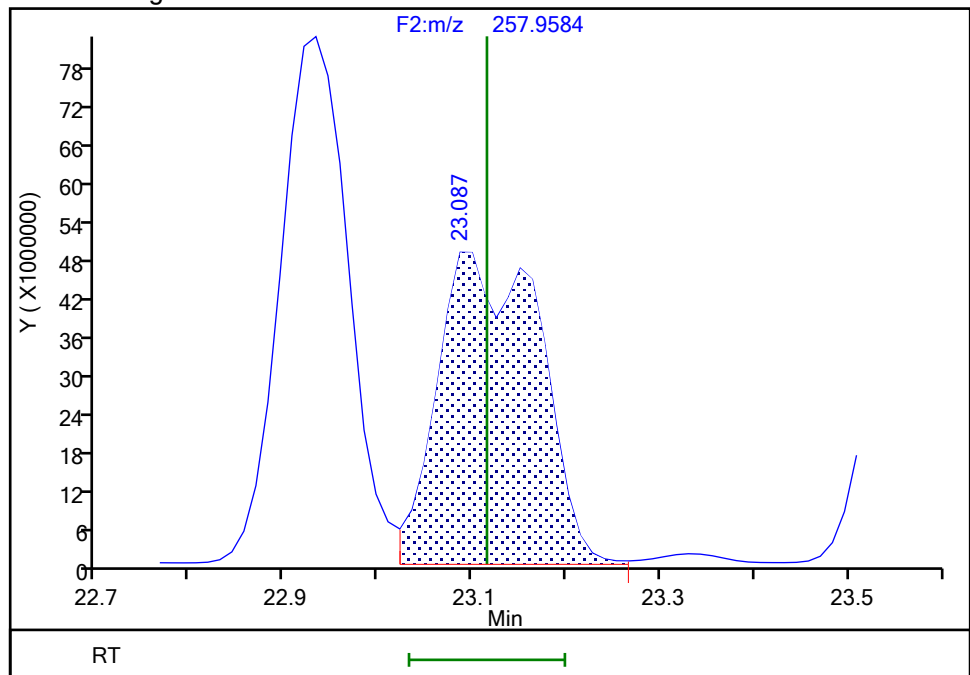
RT: 23.09
Area: 193872911
Amount: 2587.0057
Amount Units: pg/ul

Processing Integration Results



RT: 23.09
Area: 368971251
Amount: 4484.0654
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

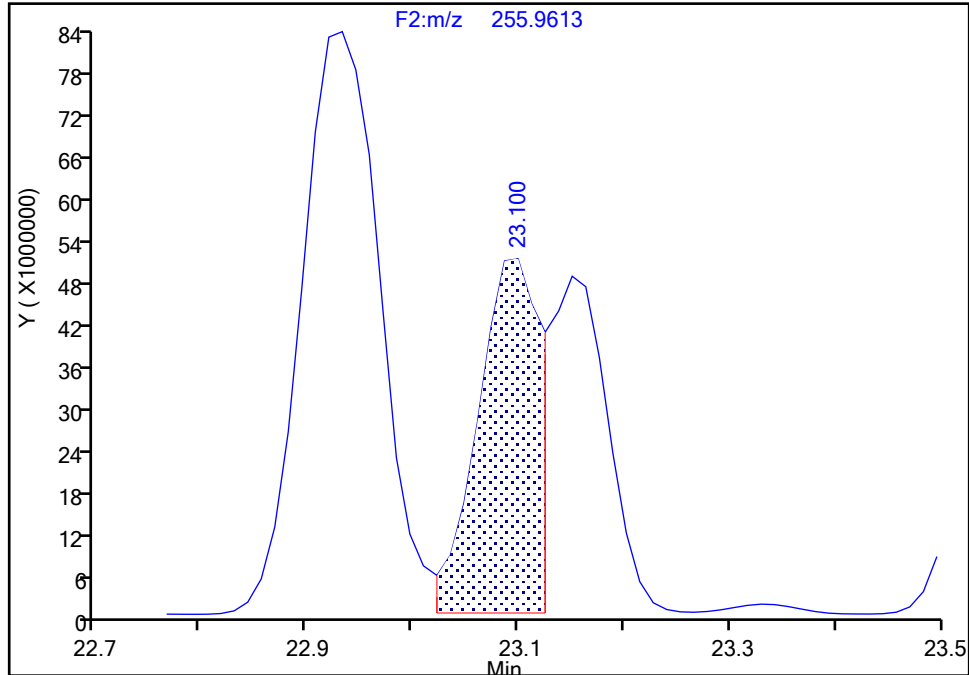
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

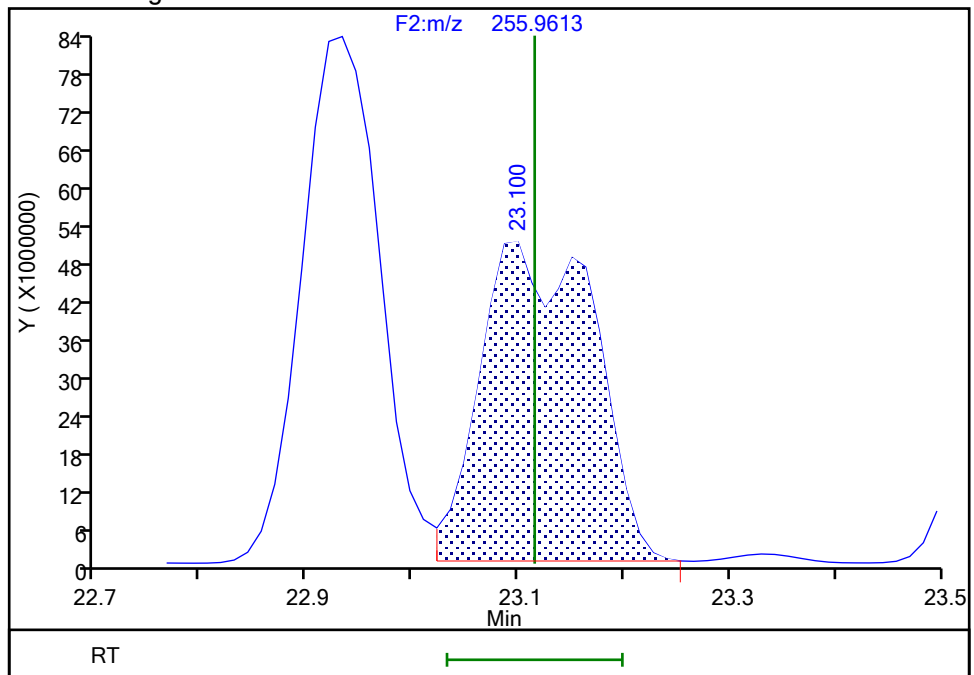
RT: 23.10
Area: 200171472
Amount: 2587.0057
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 380418482
Amount: 4484.0654
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2147 of 3076

BASFHWC-0152024-03599
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

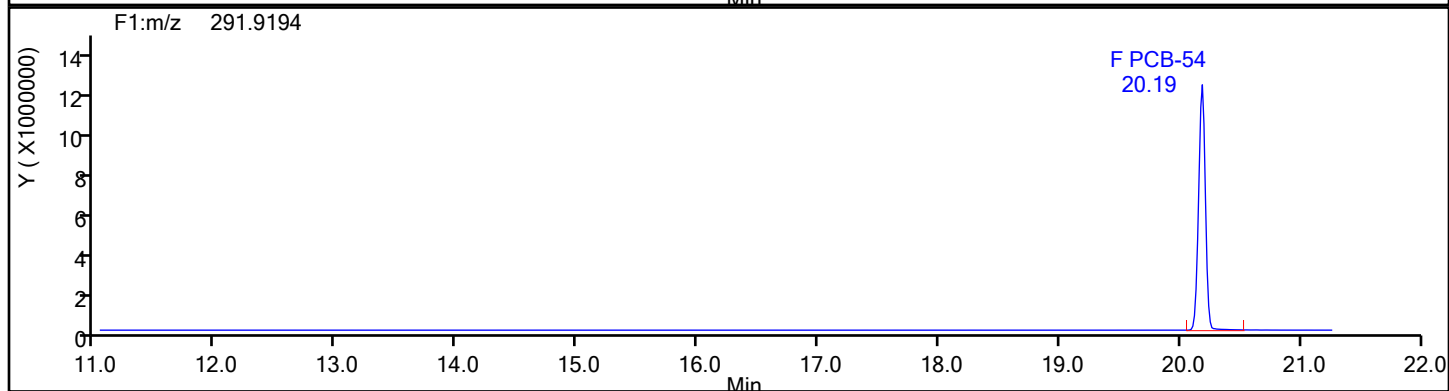
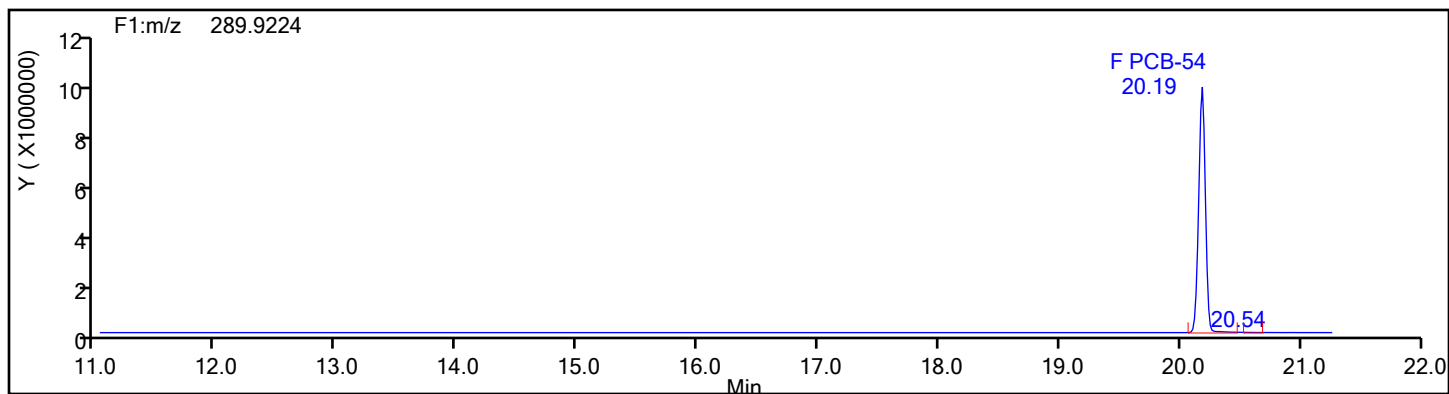
Worklist#: 87130

Sample Line#: 6

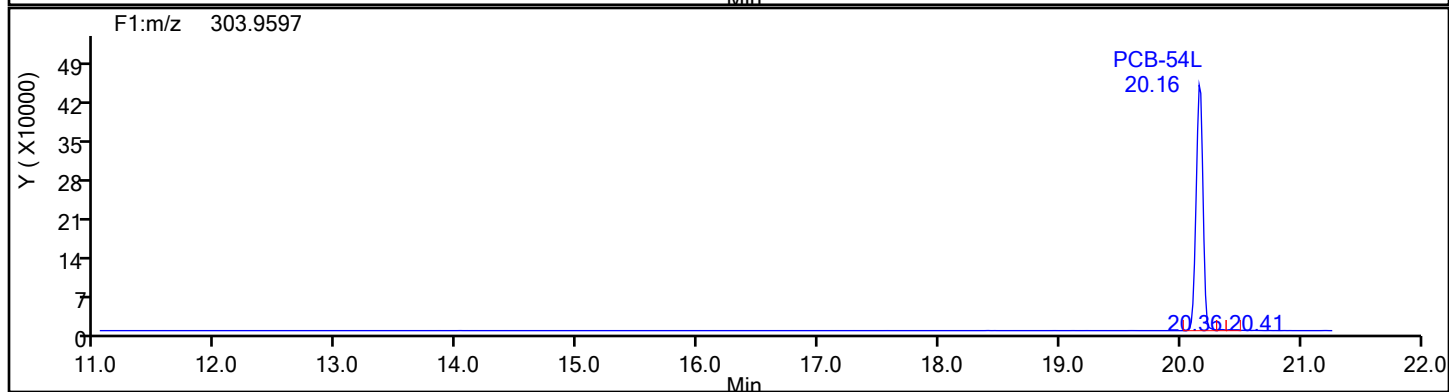
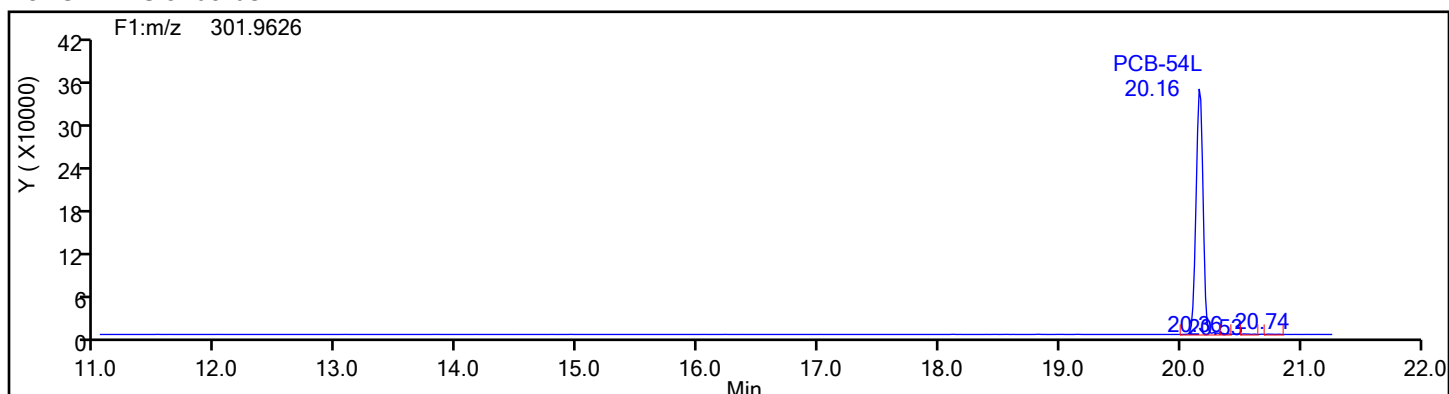
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

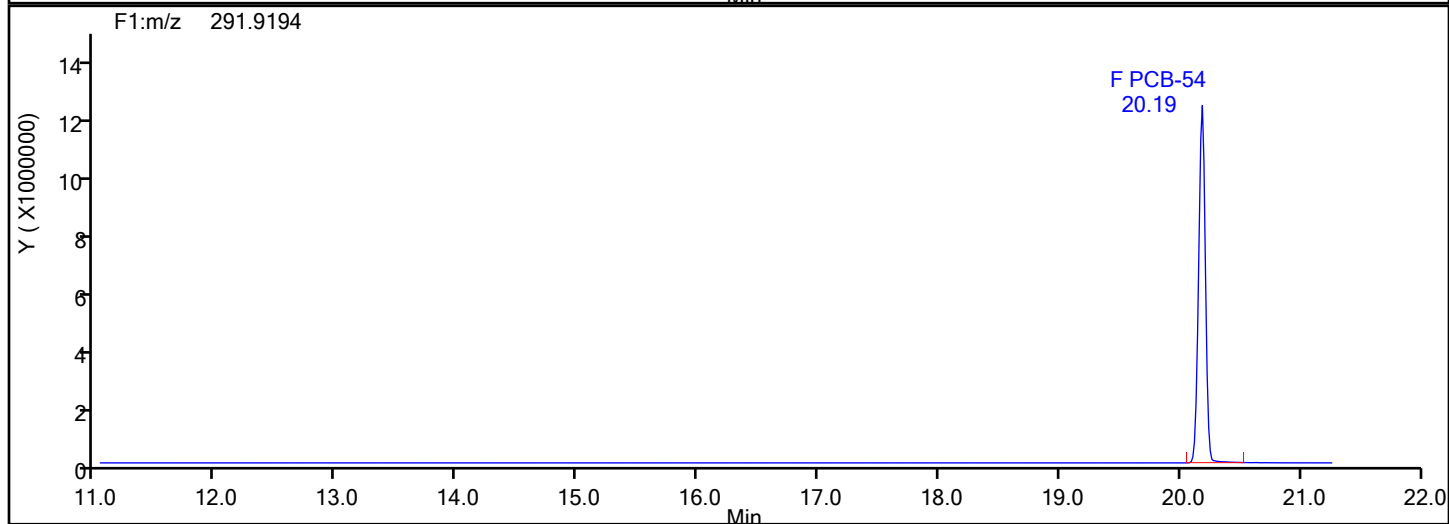
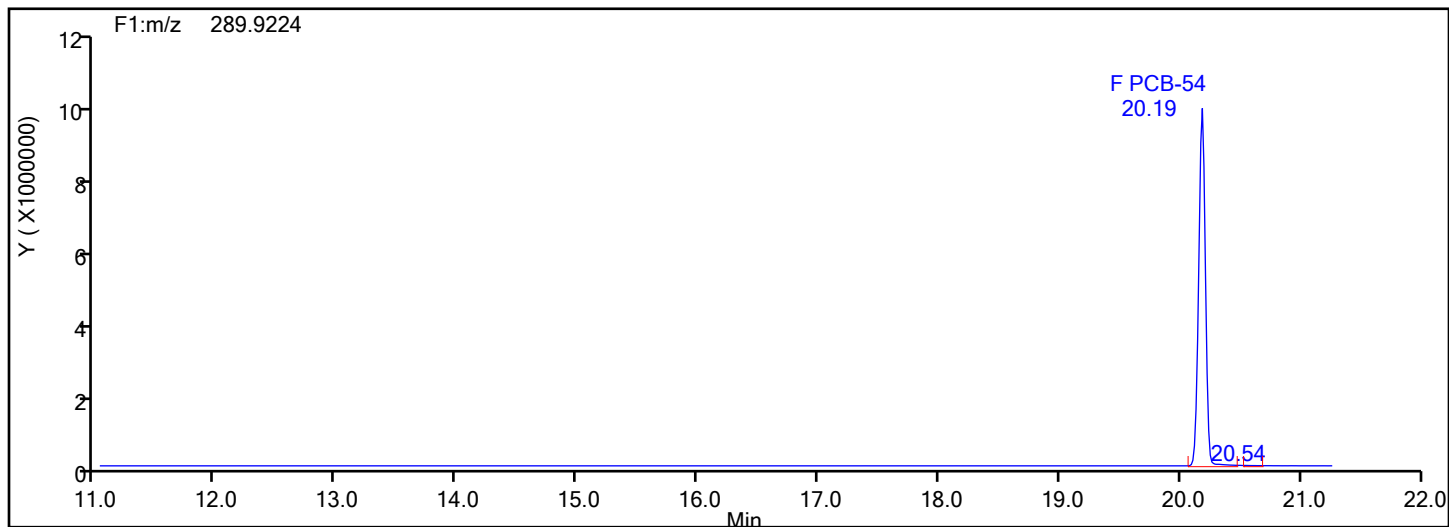
Worklist#: 87130

Sample Line#: 6

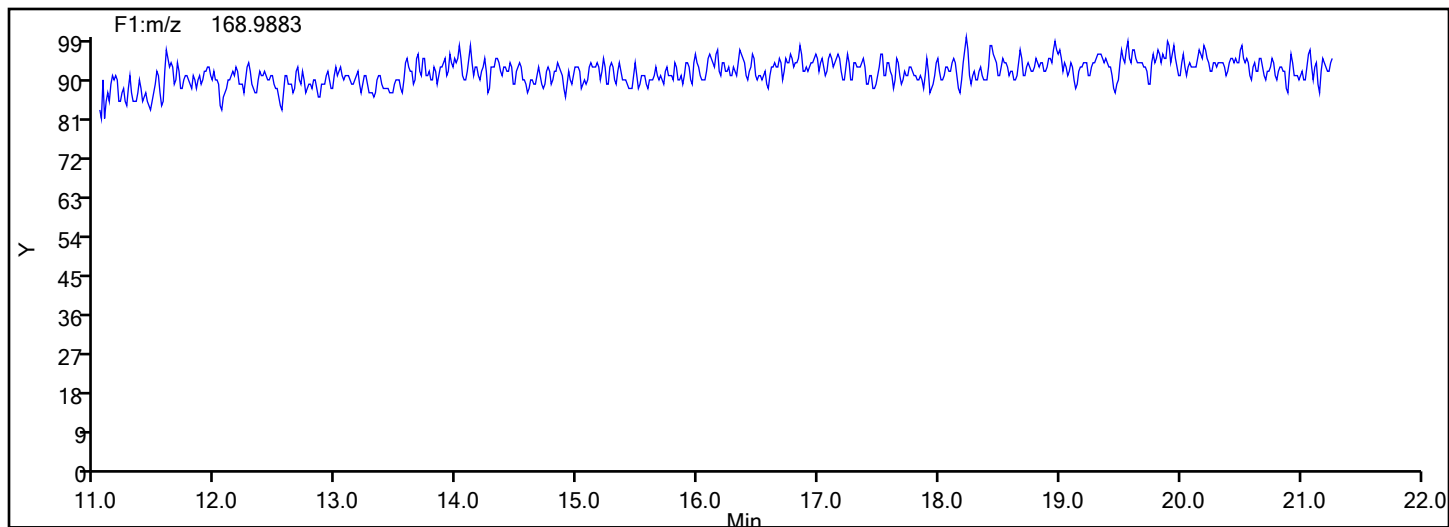
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

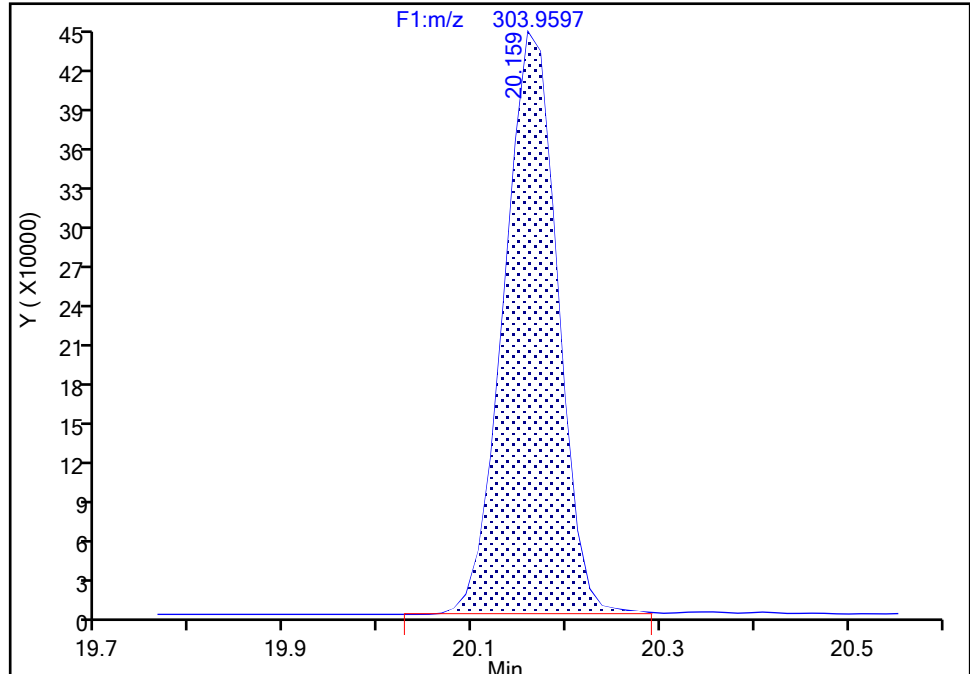
Detector F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 2

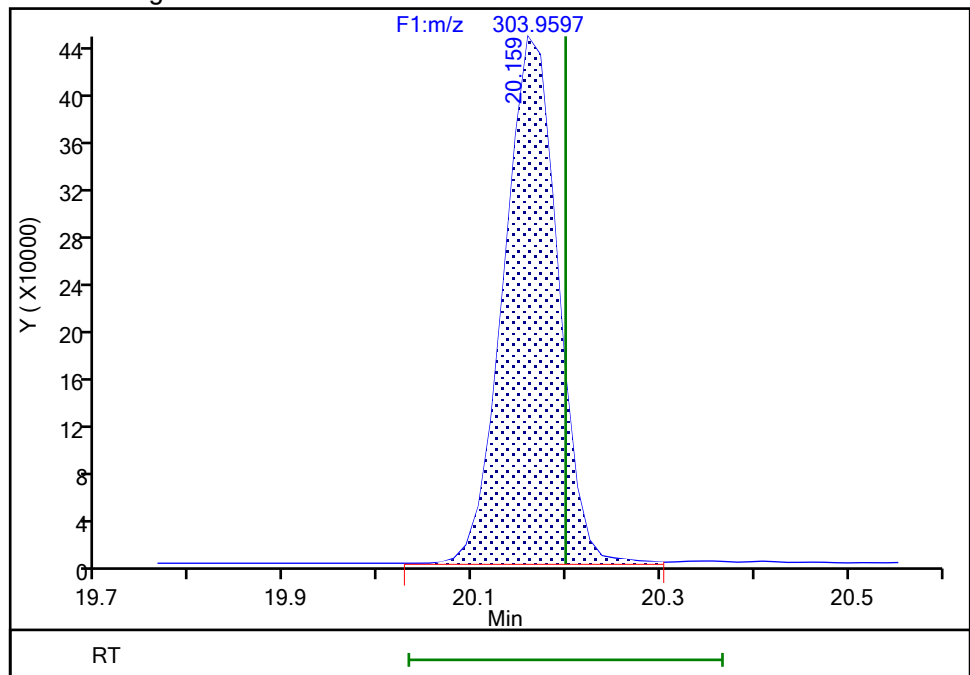
RT: 20.16
Area: 1770178
Amount: 96.965661
Amount Units: pg/ul

Processing Integration Results



RT: 20.16
Area: 1783210
Amount: 97.298516
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

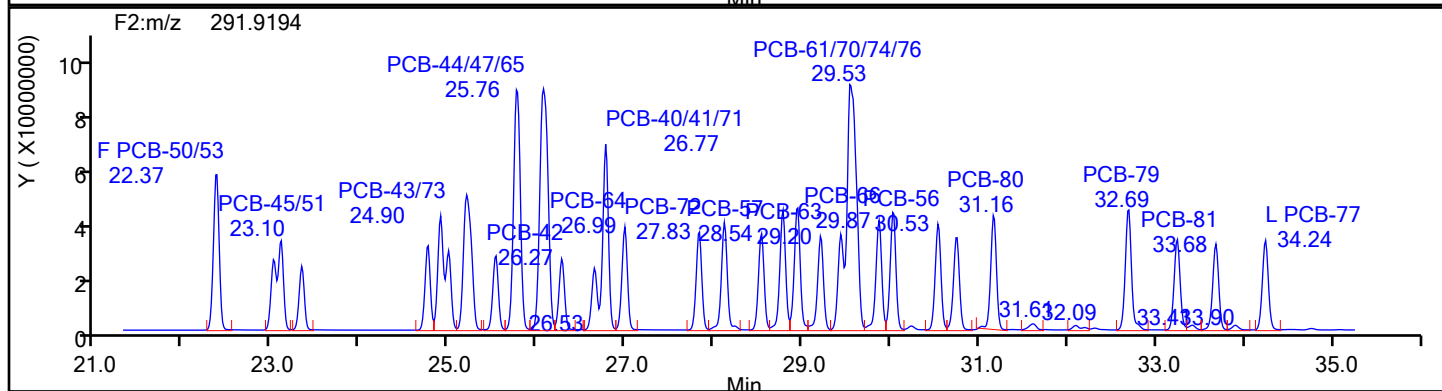
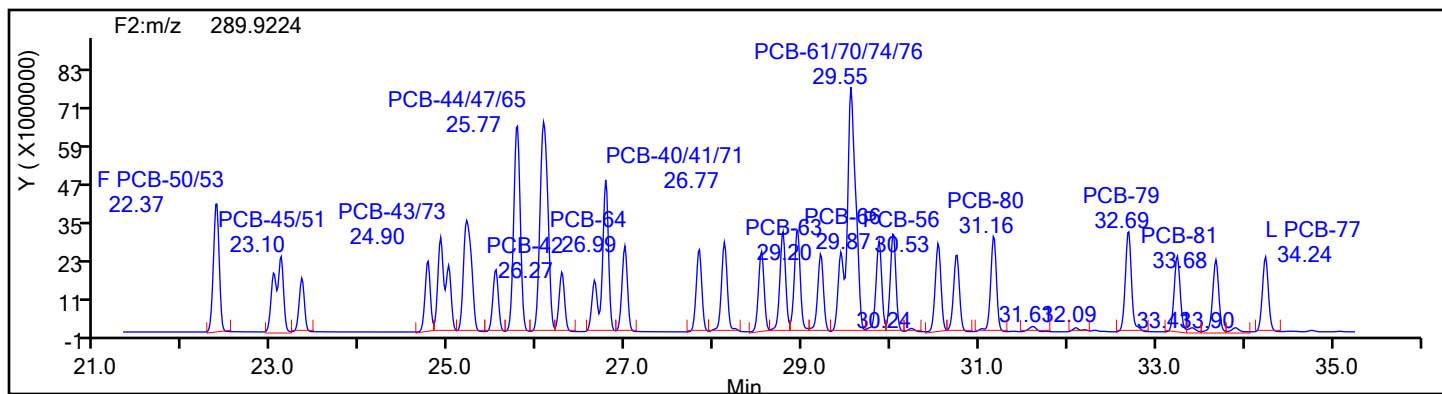
Worklist#: 87130

Sample Line#: 6

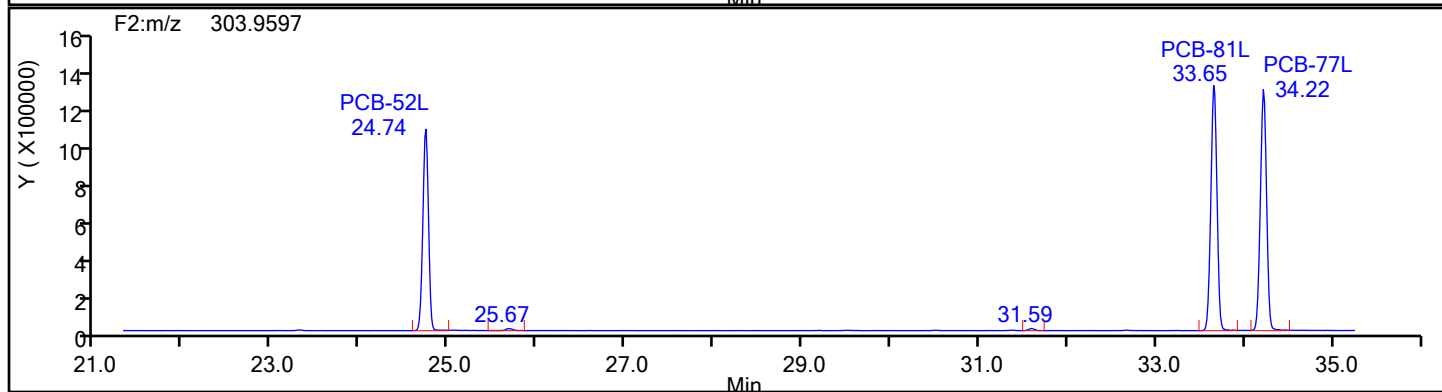
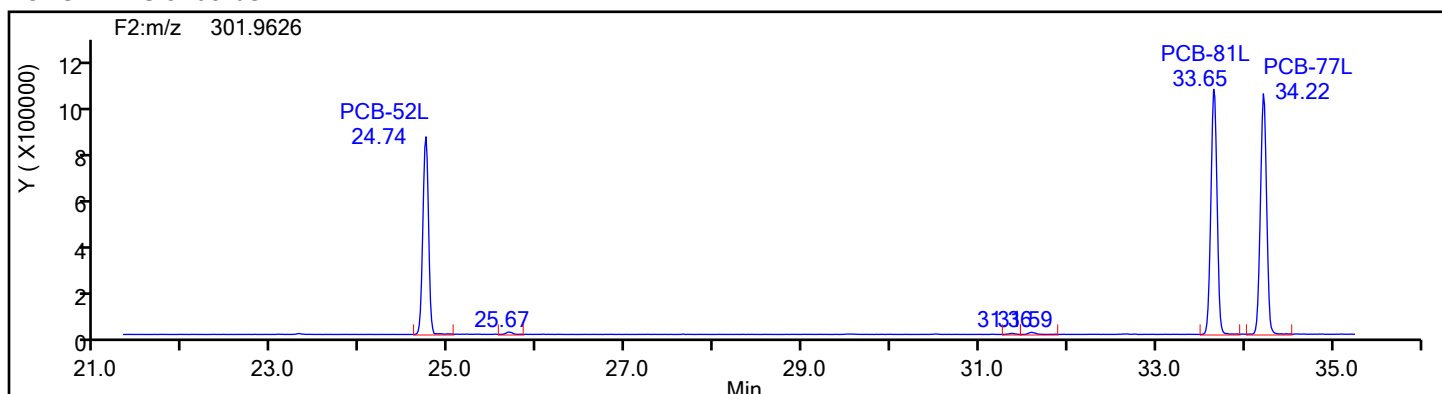
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2

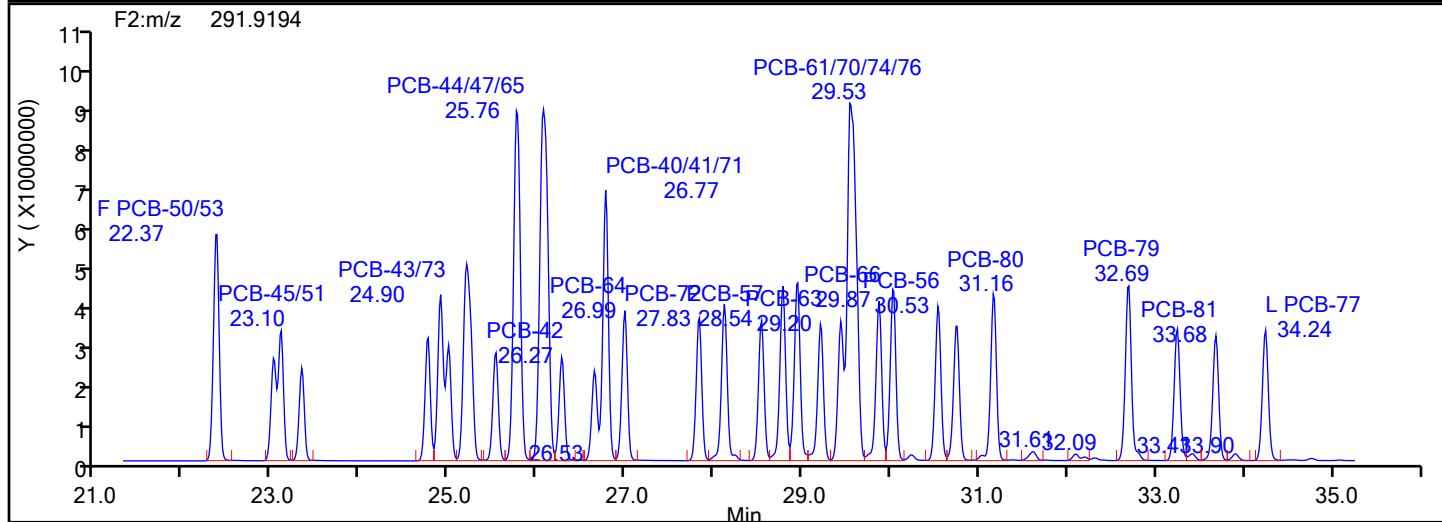
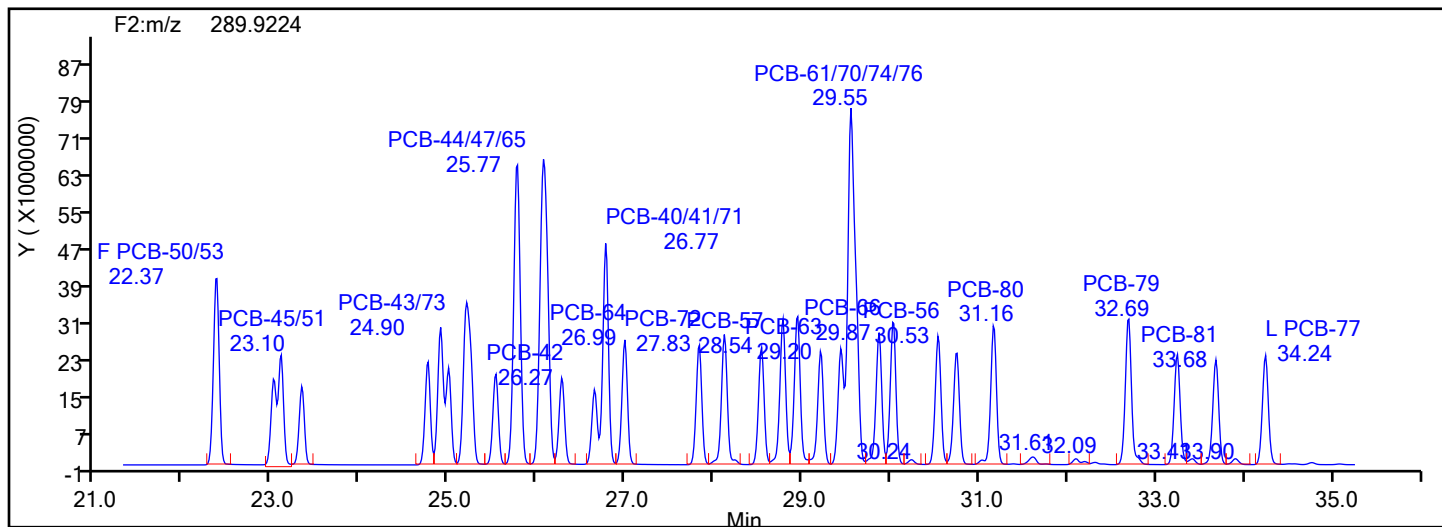


TePCB F2 Standards

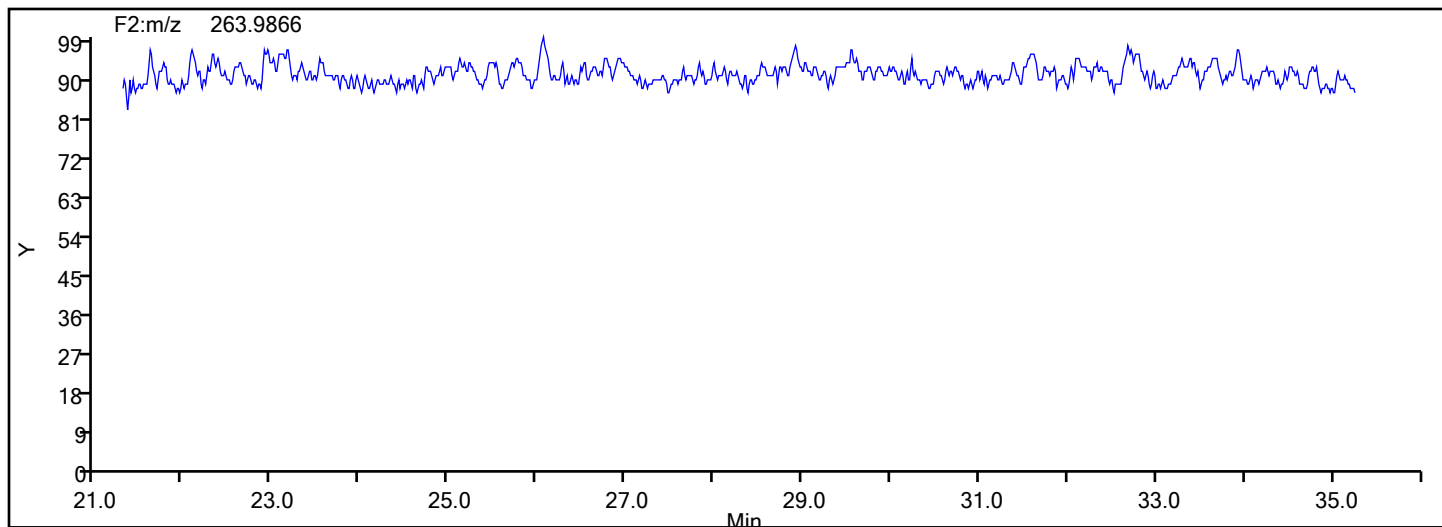


Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d		
Injection Date:	31-May-2024 21:13:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	87130	Sample Line#:	6
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TePCB F2			



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

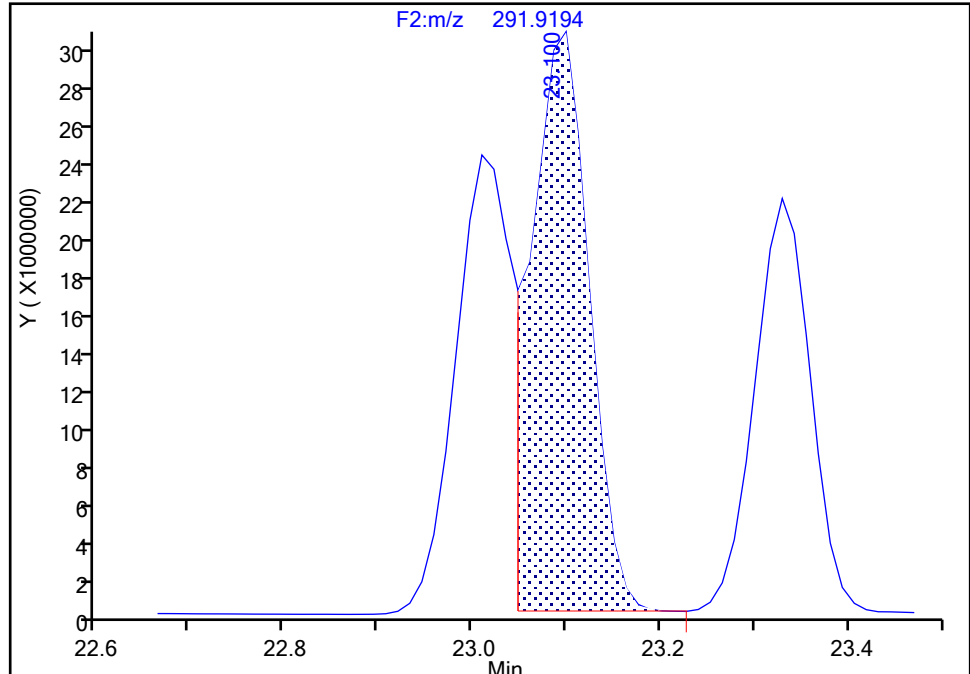
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

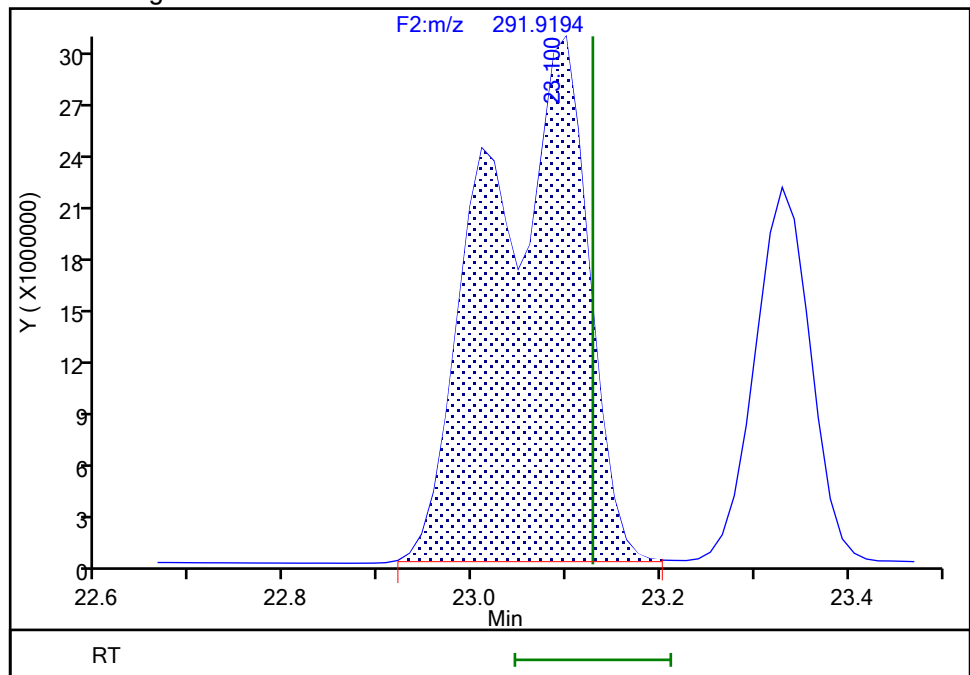
RT: 23.10
Area: 126924557
Amount: 2641.0659
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 223614074
Amount: 4329.7434
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

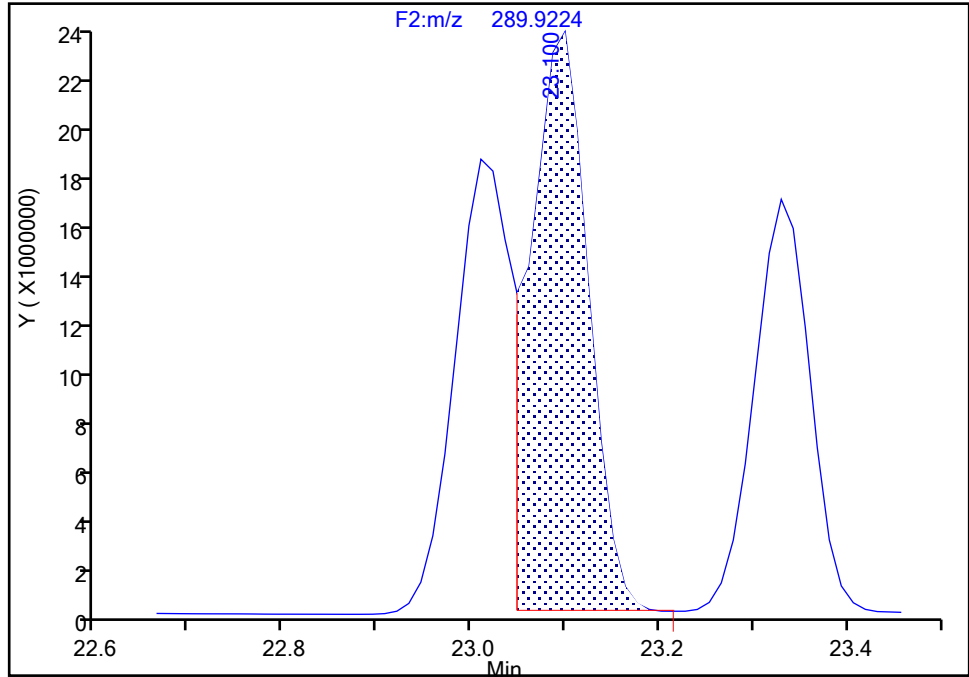
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

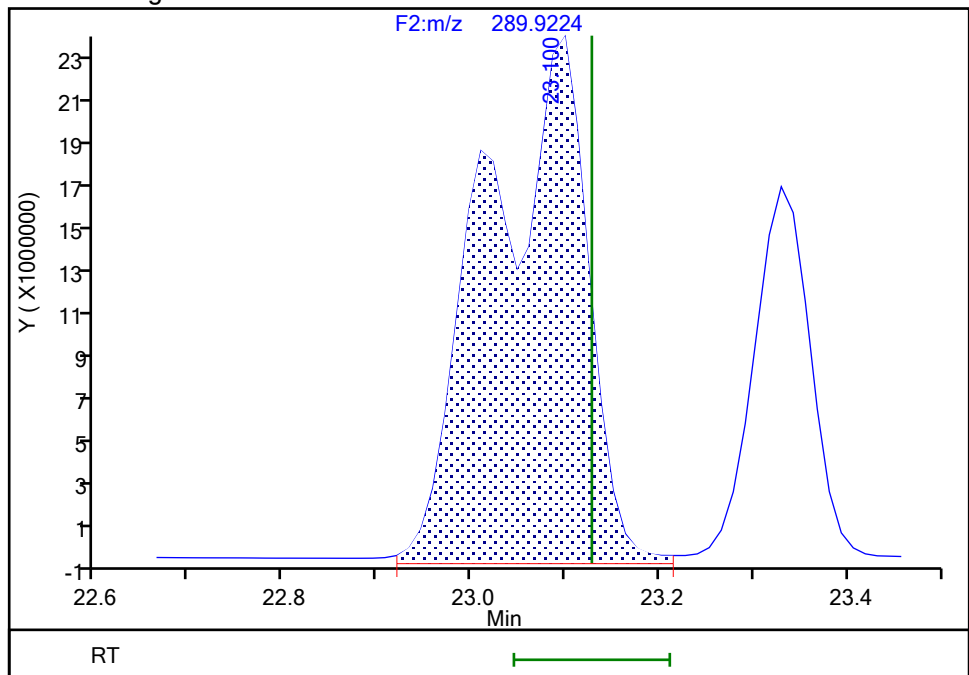
RT: 23.10
Area: 98729299
Amount: 2641.0659
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 178079818
Amount: 4329.7434
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

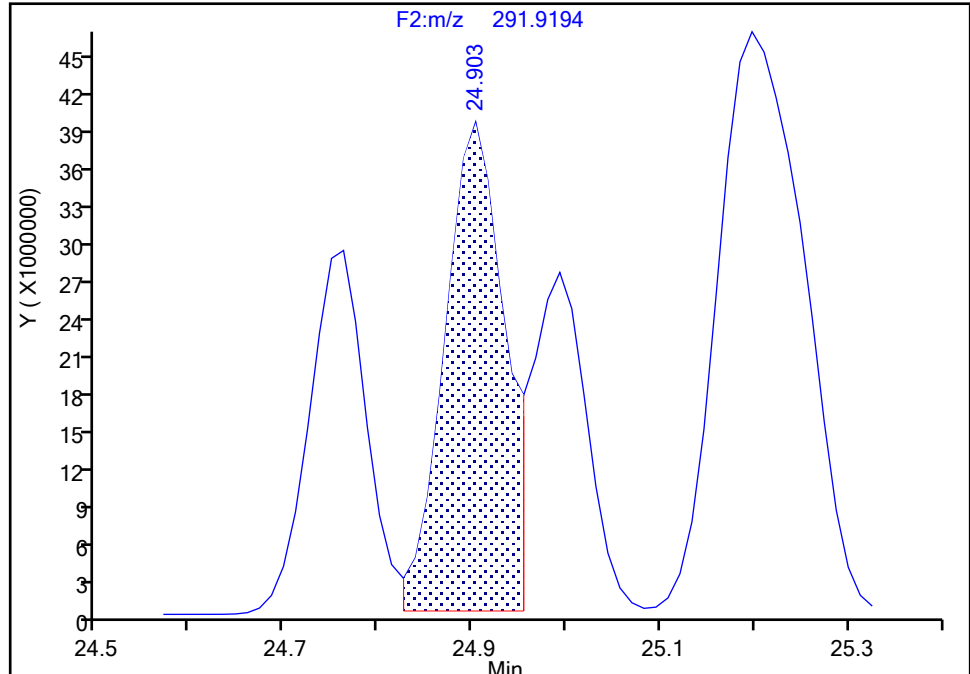
Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

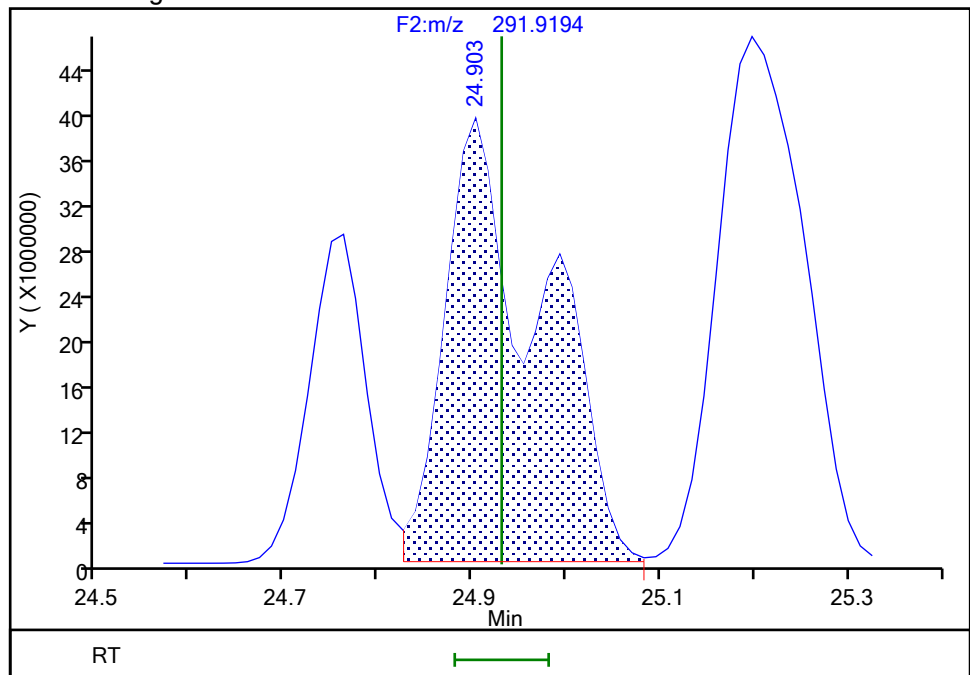
RT: 24.90
Area: 169772440
Amount: 2777.6048
Amount Units: pg/ul

Processing Integration Results



RT: 24.90
Area: 277935156
Amount: 4218.4880
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:04:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

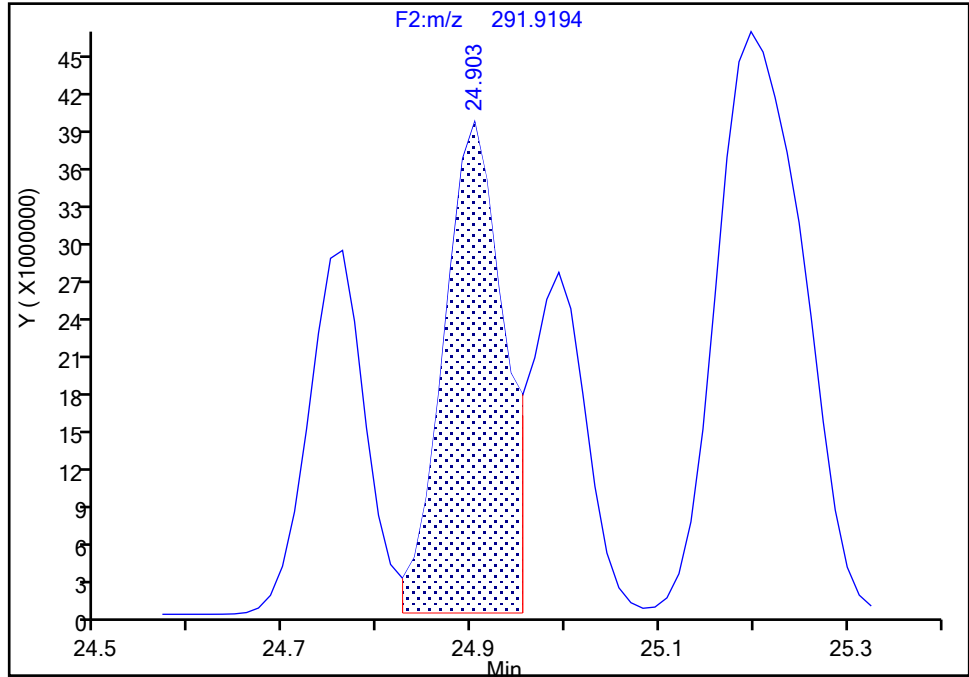
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

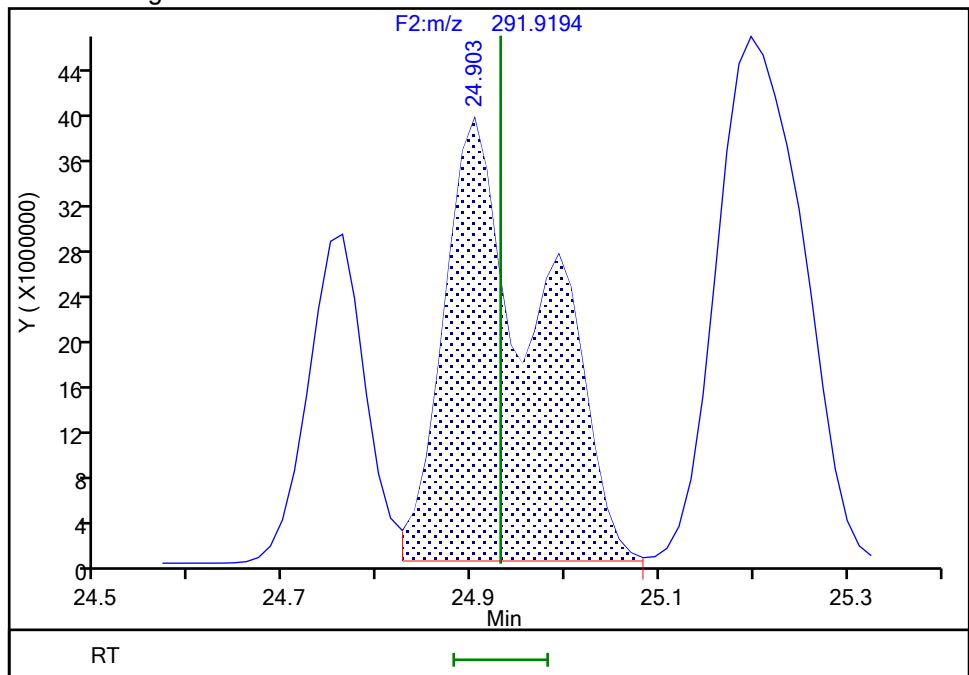
RT: 24.90
Area: 169772440
Amount: 2777.6048
Amount Units: pg/ul

Processing Integration Results



RT: 24.90
Area: 277935156
Amount: 4218.4880
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:04:35 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

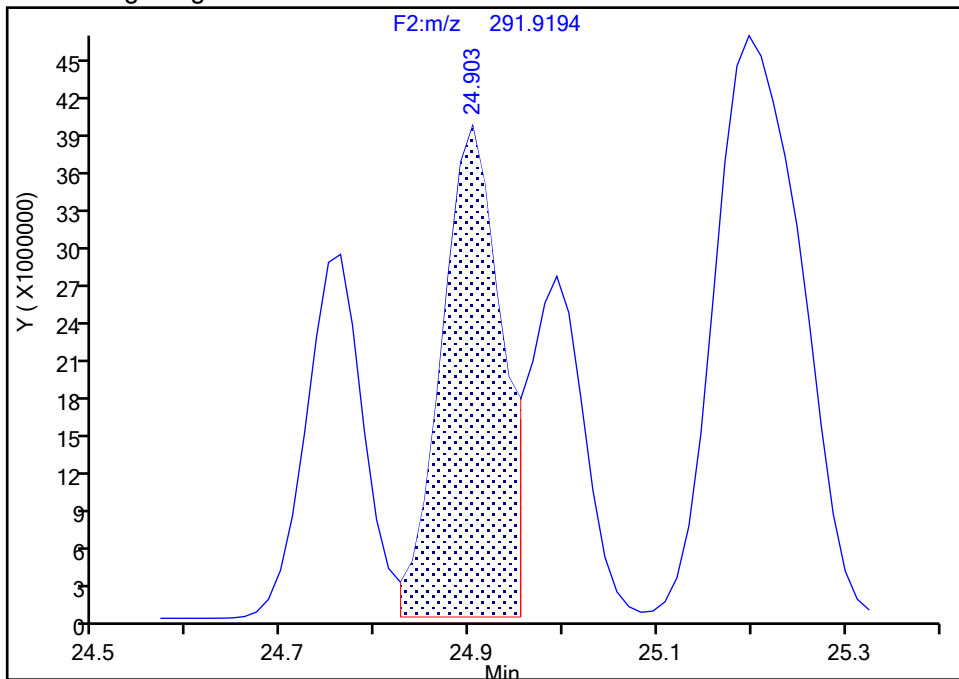
Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d				
Injection Date:	31-May-2024 21:13:00	Instrument ID:	D2D		
Lims ID:	IC L6				
Client ID:					
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl (0.25 mm)	Detector	F2(21.81 :35.54)		

PCB-43/73, CAS: STL02293

Signal: 3

RT: 24.90
Area: 300336589
Amount: 2777.6048
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 24.90
Area: 489361192
Amount: 4218.4880
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:04:35 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

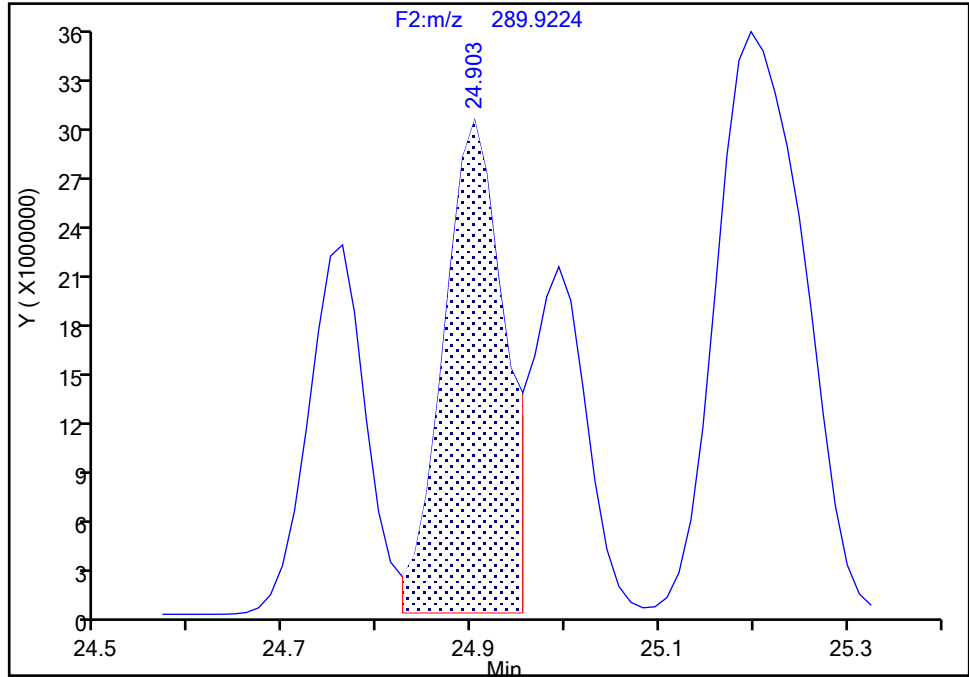
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

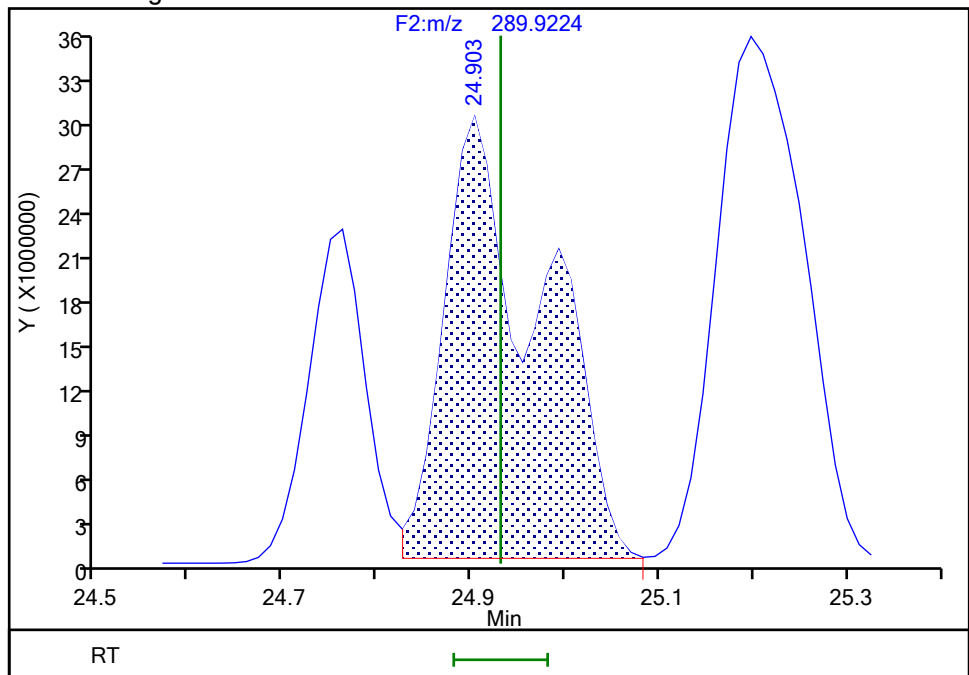
RT: 24.90
Area: 130564149
Amount: 2777.6048
Amount Units: pg/ul

Processing Integration Results



RT: 24.90
Area: 211426036
Amount: 4218.4880
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:04:37 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

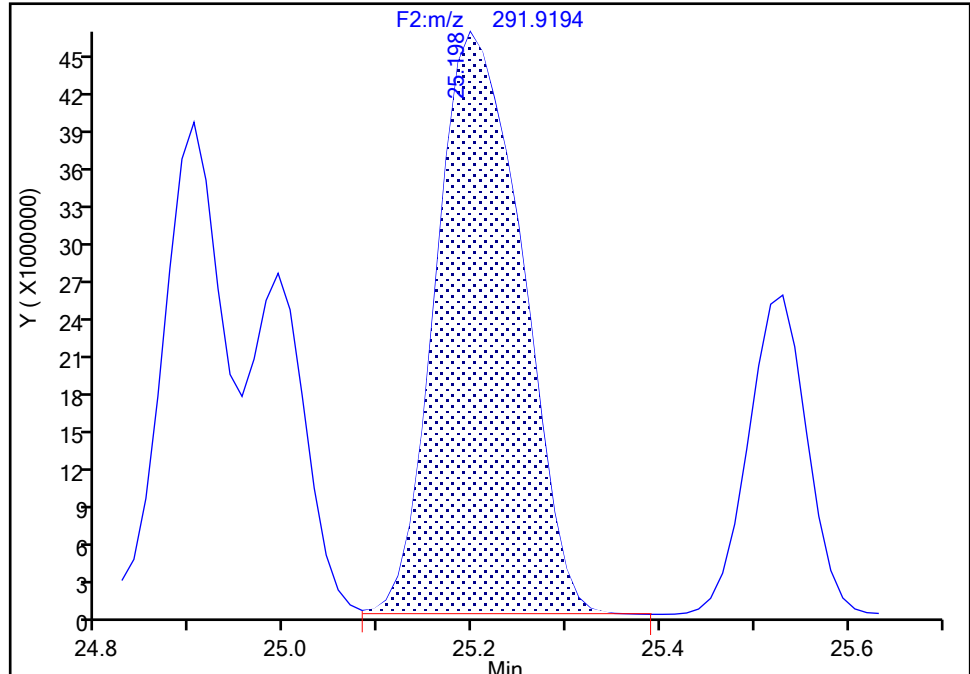
Detector F2(21.81 :35.54)

PCB-49/69, CAS: STL01805

Signal: 2

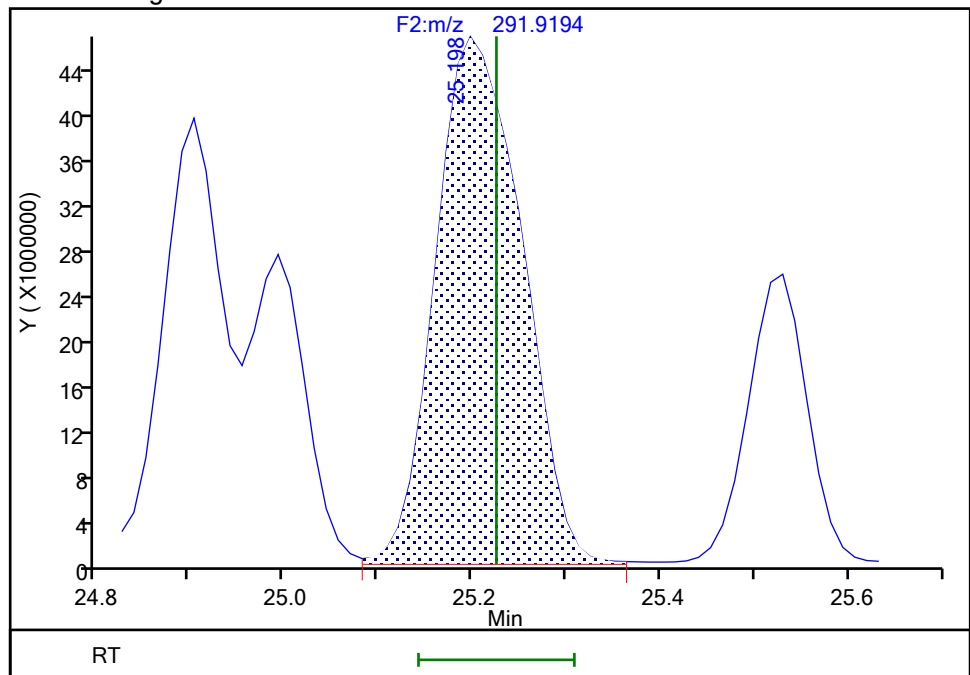
RT: 25.20
Area: 292362083
Amount: 4313.5357
Amount Units: pg/ul

Processing Integration Results



RT: 25.20
Area: 293974420
Amount: 4324.5612
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:04:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

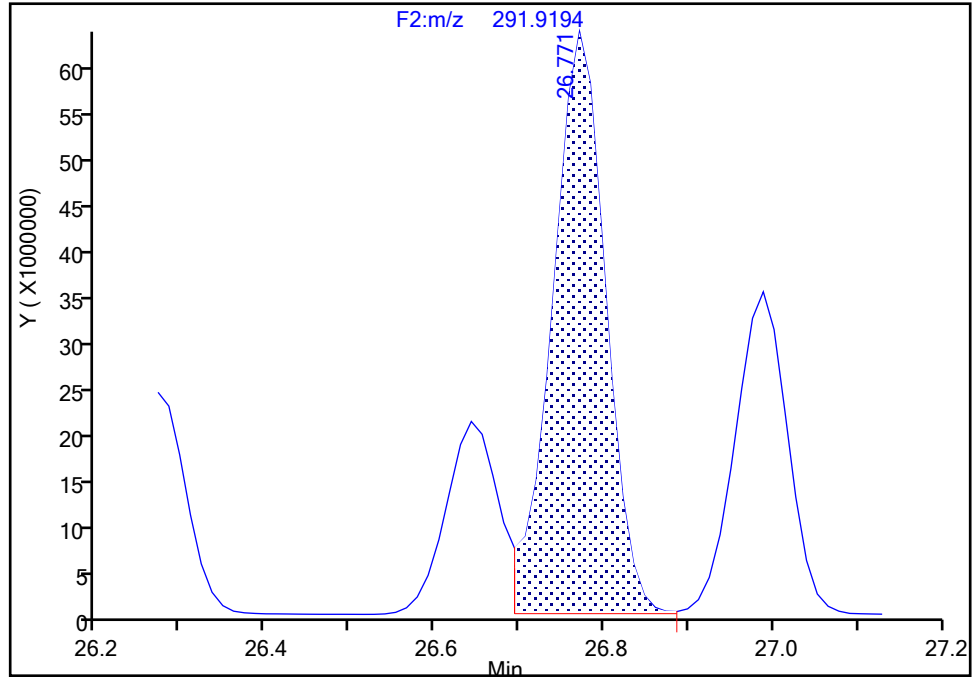
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

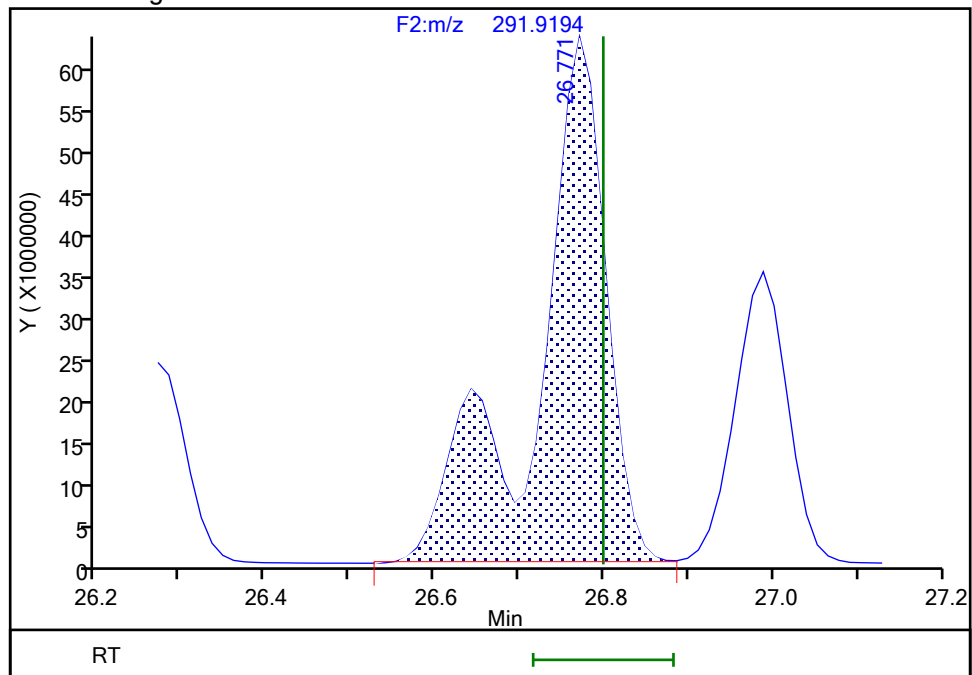
RT: 26.77
Area: 276411598
Amount: 5120.9933
Amount Units: pg/ul

Processing Integration Results



RT: 26.77
Area: 364045686
Amount: 6444.9845
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:05:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

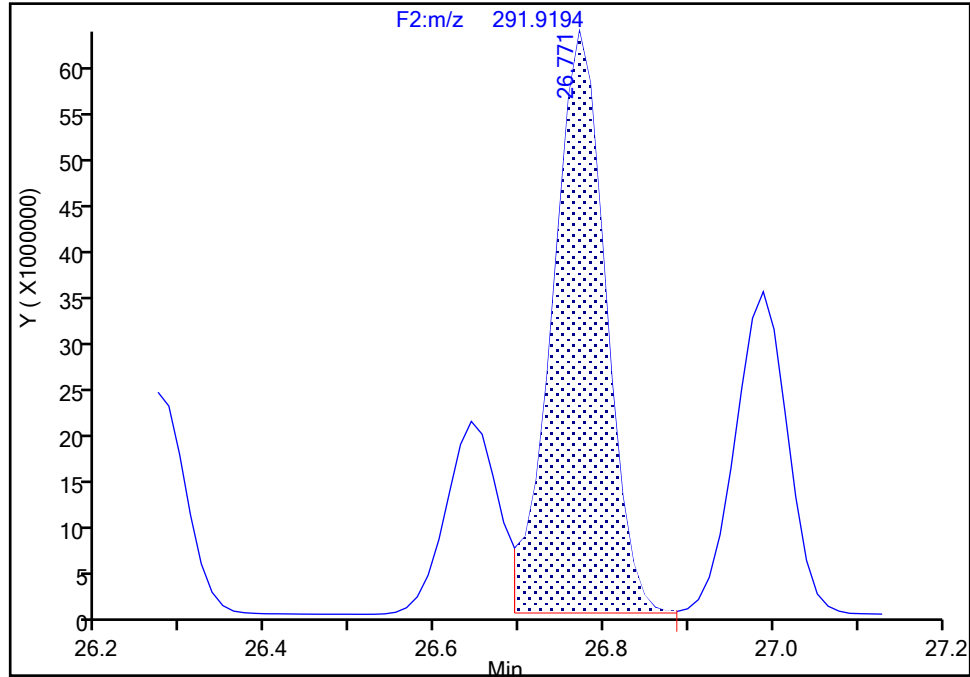
F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

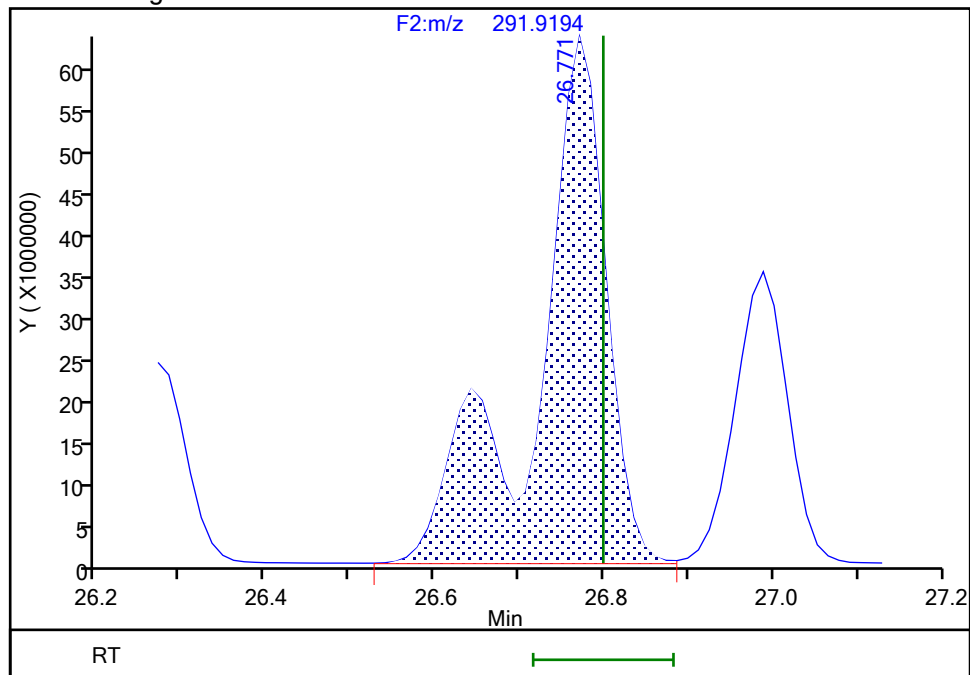
RT: 26.77
Area: 276411598
Amount: 5120.9933
Amount Units: pg/ul

Processing Integration Results



RT: 26.77
Area: 364045686
Amount: 6444.9845
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:05:30 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

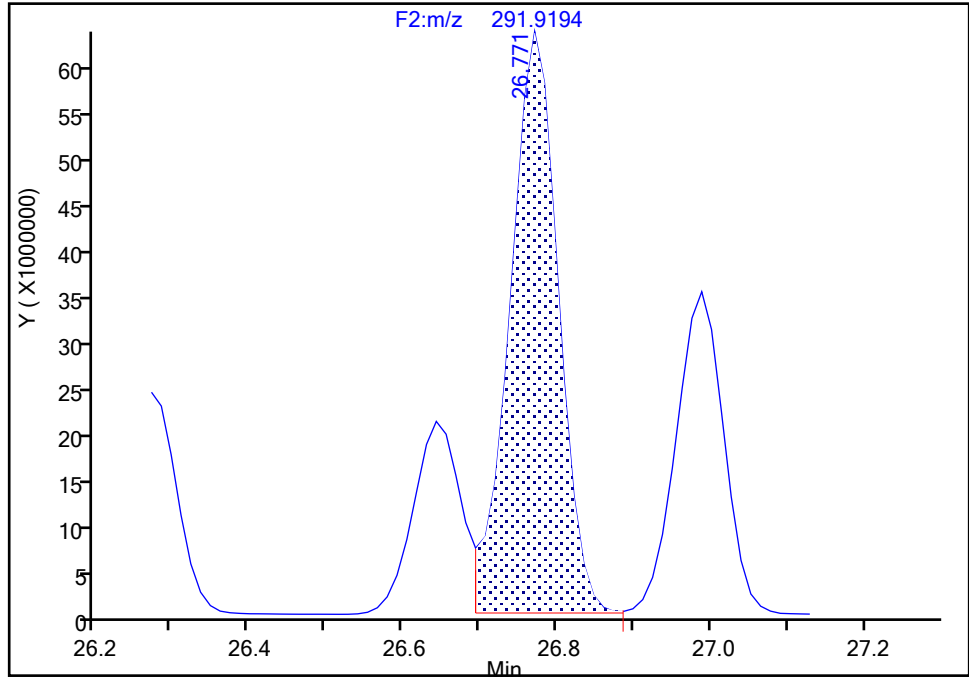
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 3

RT: 26.77
Area: 487694602
Amount: 5120.9933
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 26.77
Area: 641280083
Amount: 6444.9845
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:05:30 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#: 0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

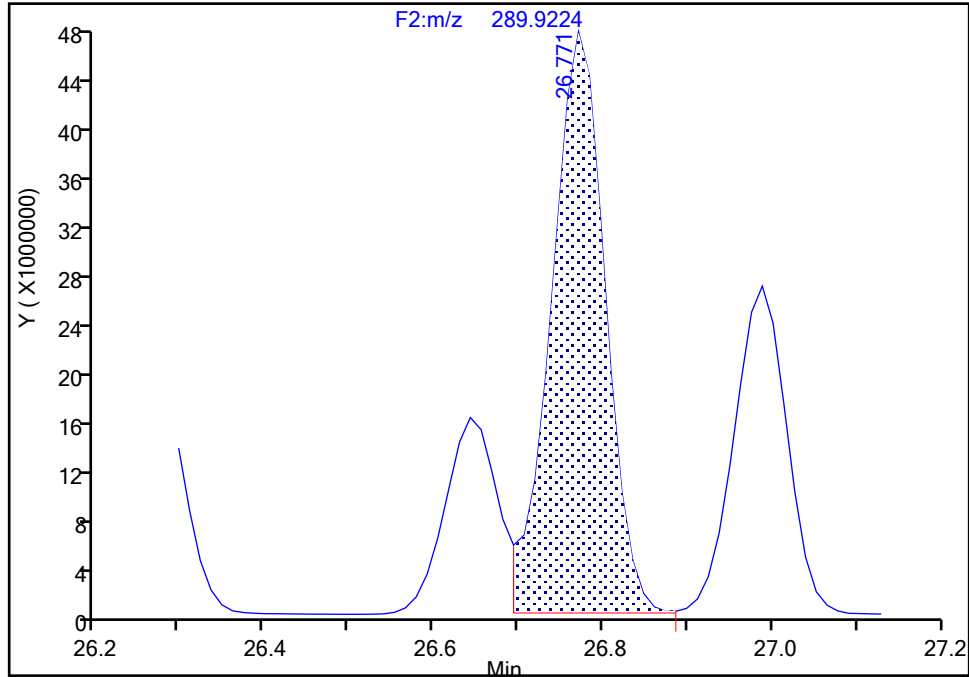
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

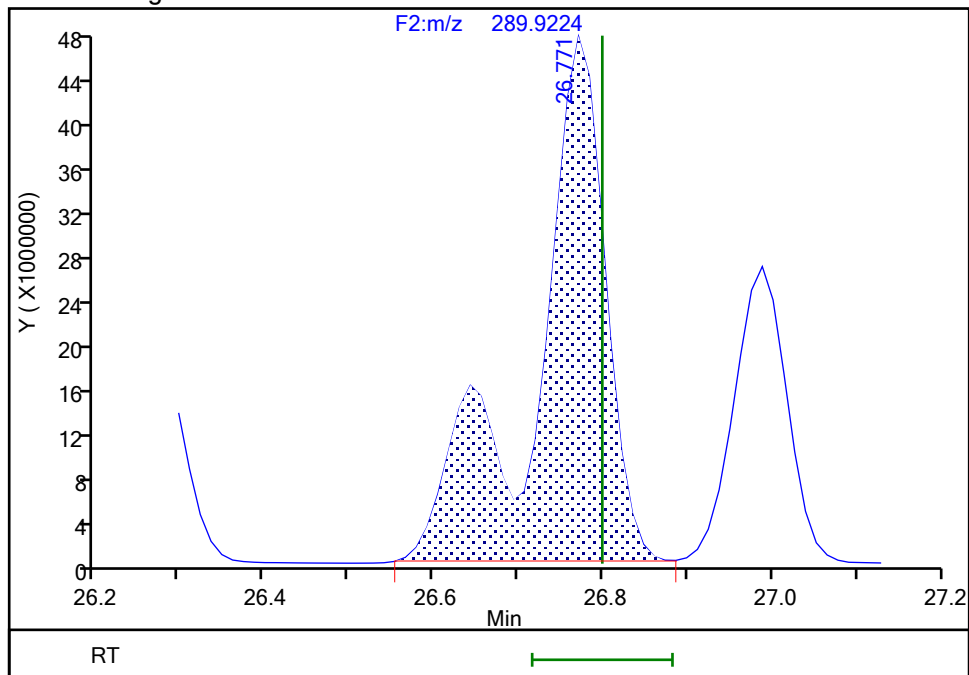
RT: 26.77
Area: 211283004
Amount: 5120.9933
Amount Units: pg/ul

Processing Integration Results



RT: 26.77
Area: 277234397
Amount: 6444.9845
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:05:32 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Column Dia: 0.25 mm

Chromatogram showing the separation of PCB congeners. The x-axis represents time in minutes (Min), ranging from 21.0 to 35.0. The y-axis represents intensity (Y (X1000000)), ranging from -1 to 83. The baseline is stable around 100,000 units. Several peaks are identified and labeled with their retention times and corresponding PCB congeners:

Retention Time (Min)	PCB Congener(s)
25.70	F PCB-104
28.01	PCB-108
28.68	PCB-95
29.75	PCB-84
31.03	PCB-92
31.61	PCB-90/101/113
32.19	PCB-83/99
32.68	PCB-86/87/97/109/119/125
33.59	PCB-110/115
34.51	L PCB-120
35.07	PCB-120

Chromatogram showing two major peaks labeled PCB-104L at 25.68 minutes and PCB-101L at 31.59 minutes. The y-axis is labeled Y (X100000) and the x-axis is labeled Min. Minor peaks are labeled at 25.80, 25.94, and 31.36 minutes.

Chromatogram showing two peaks:

- Peak 1: PCB-104L, 25.67 minutes
- Peak 2: PCB-101L, 31.59 minutes

The y-axis is labeled Y (X10000) and the x-axis is labeled Min. The title is F2:m/z 339.9178.

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

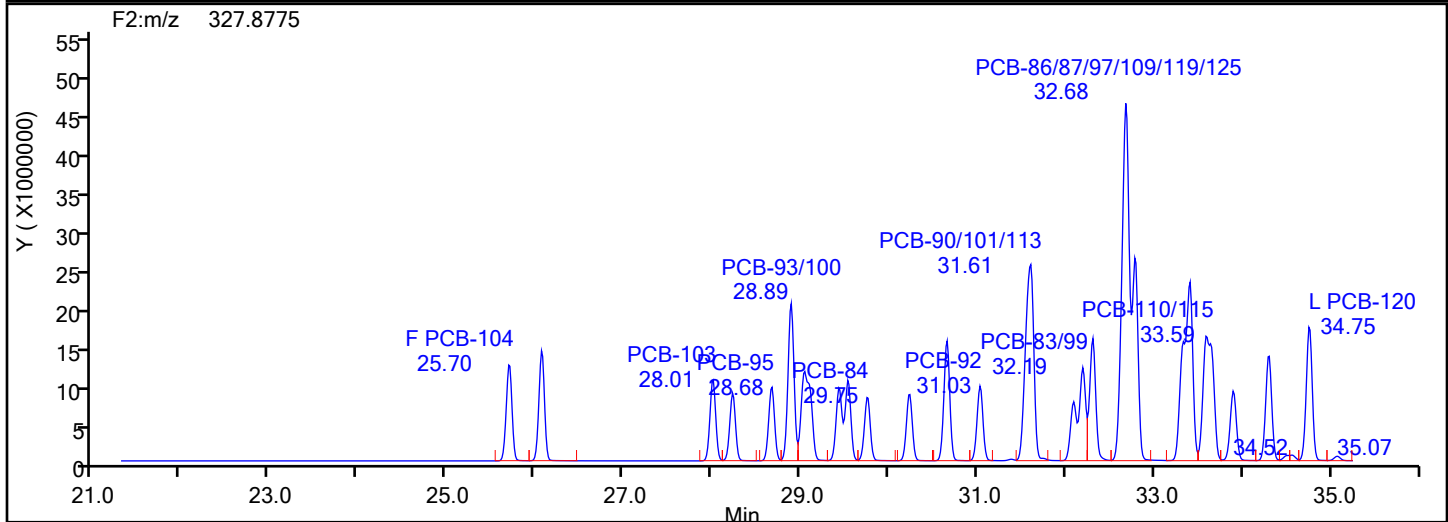
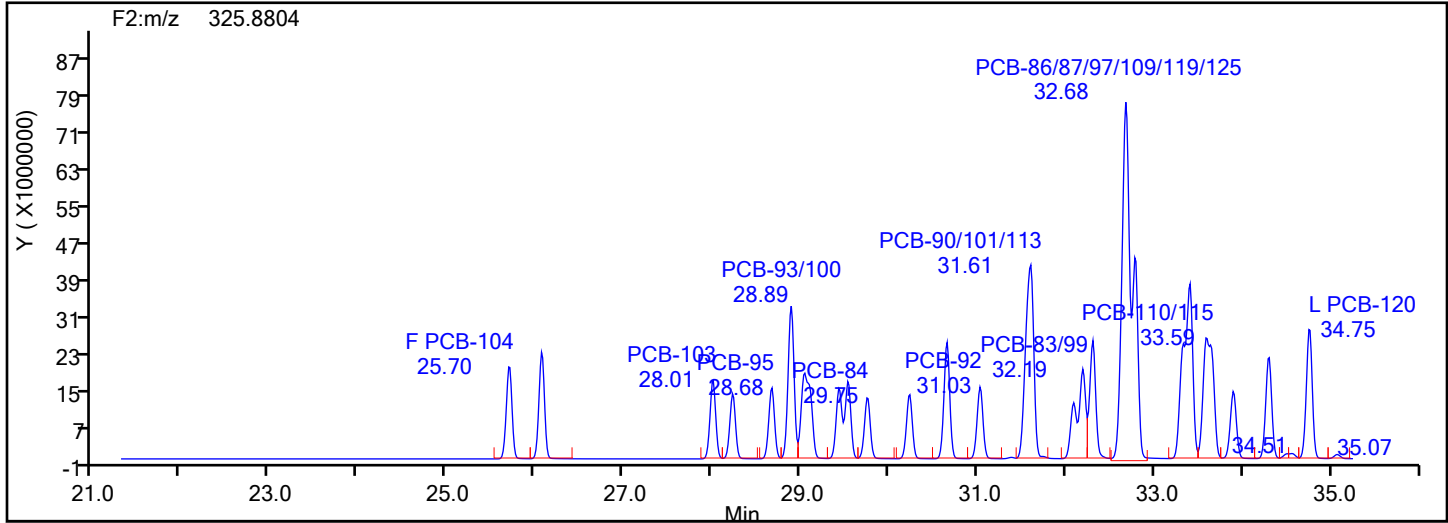
Worklist#: 87130

Sample Line#: 6

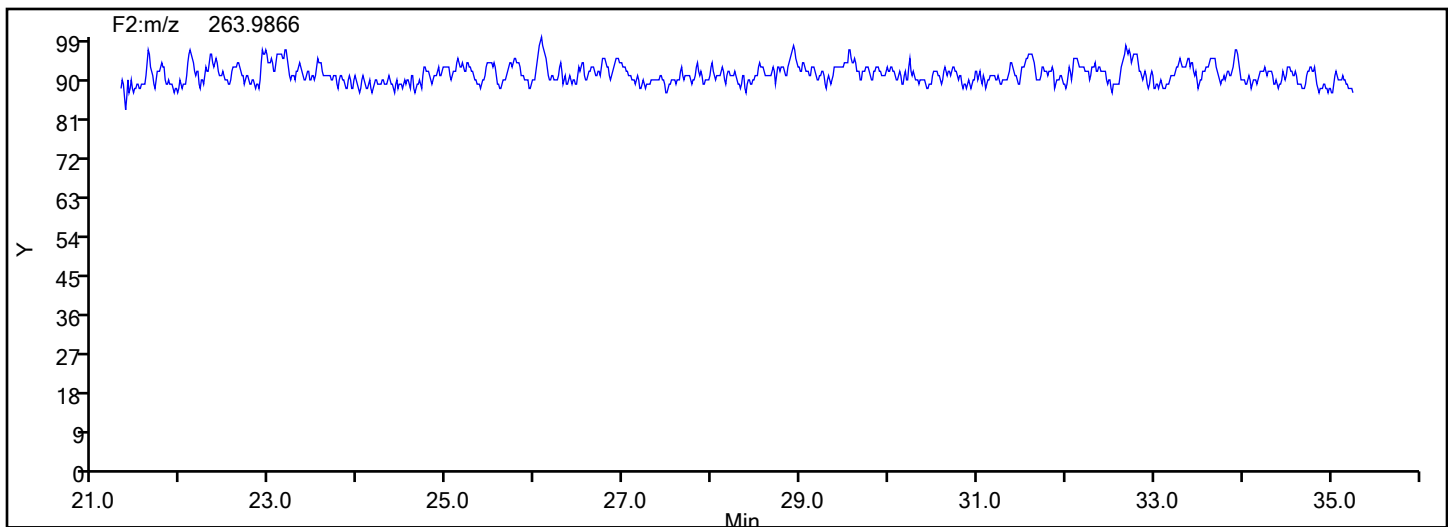
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

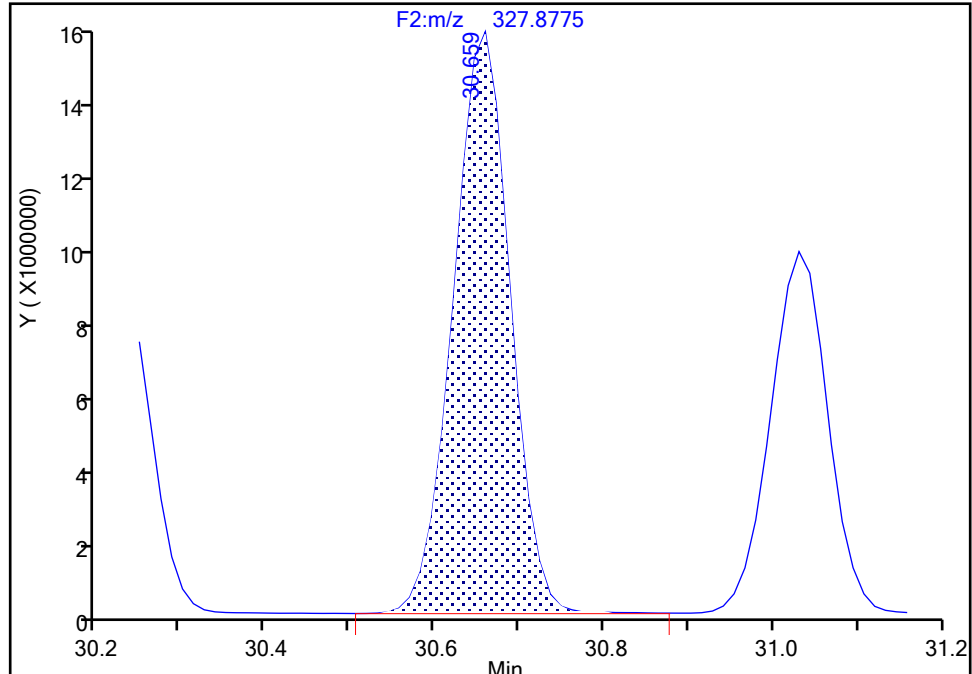
Detector F2(21.81 :35.54)

PCB-121, CAS: 56558-18-0

Signal: 2

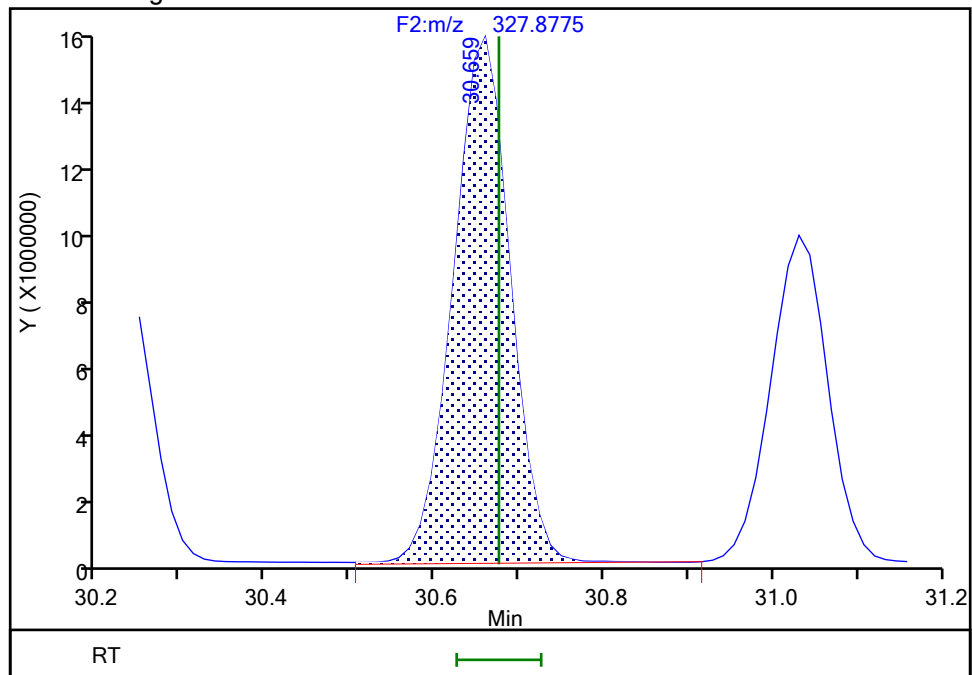
RT: 30.66
Area: 72472187
Amount: 2097.3363
Amount Units: pg/ul

Processing Integration Results



RT: 30.66
Area: 72252656
Amount: 2095.3331
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

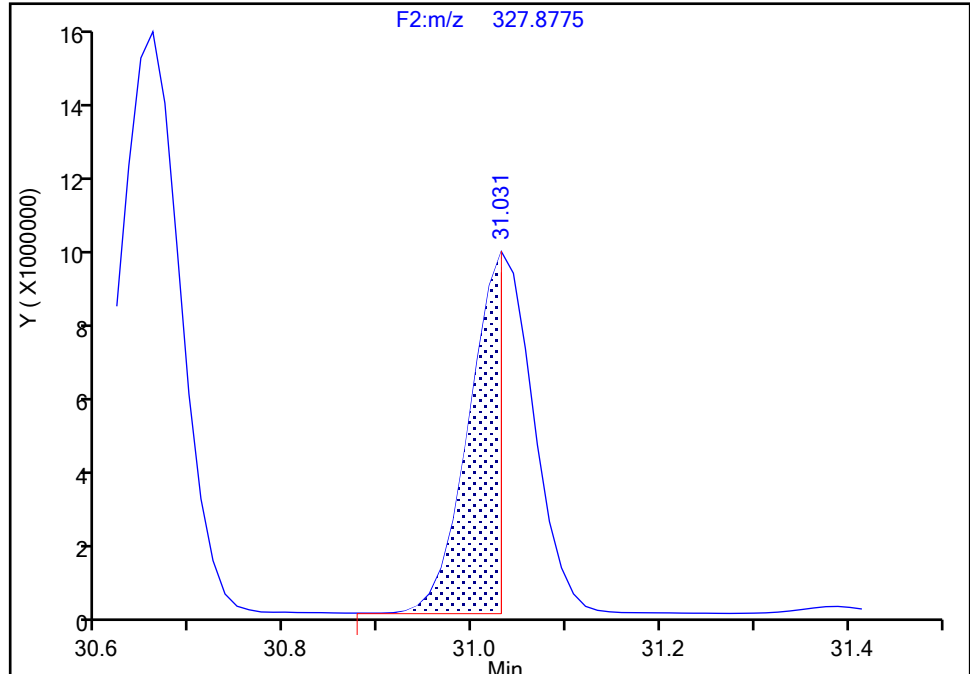
Detector F2(21.81 :35.54)

PCB-92, CAS: 52663-61-3

Signal: 2

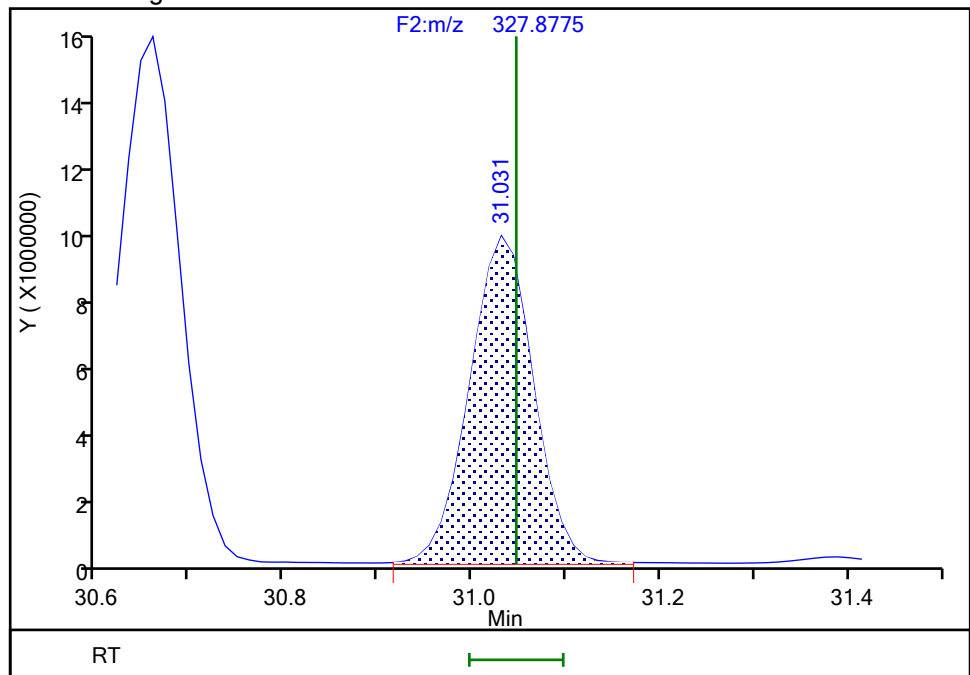
RT: 31.03
Area: 22578720
Amount: 1670.2216
Amount Units: pg/ul

Processing Integration Results



RT: 31.03
Area: 45192573
Amount: 1996.7618
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

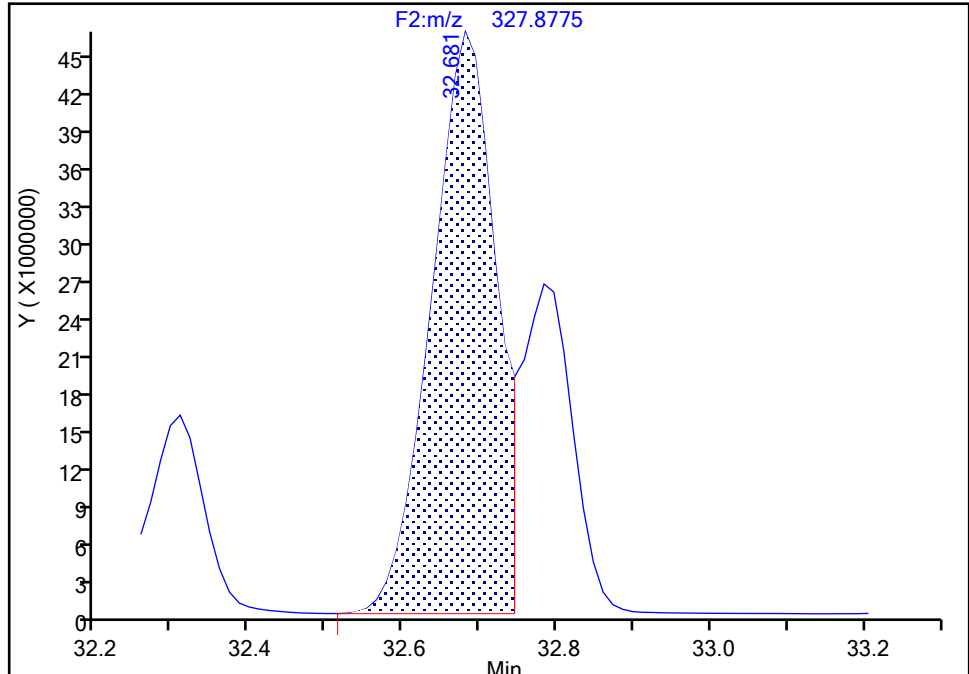
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

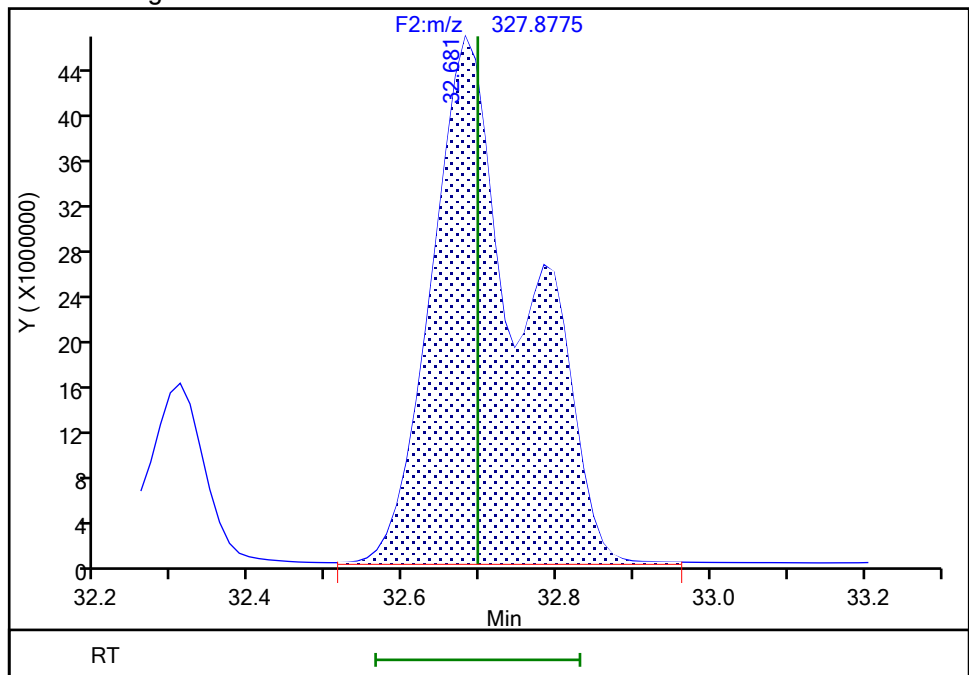
RT: 32.68
Area: 265602402
Amount: 10348
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 384843597
Amount: 14115
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

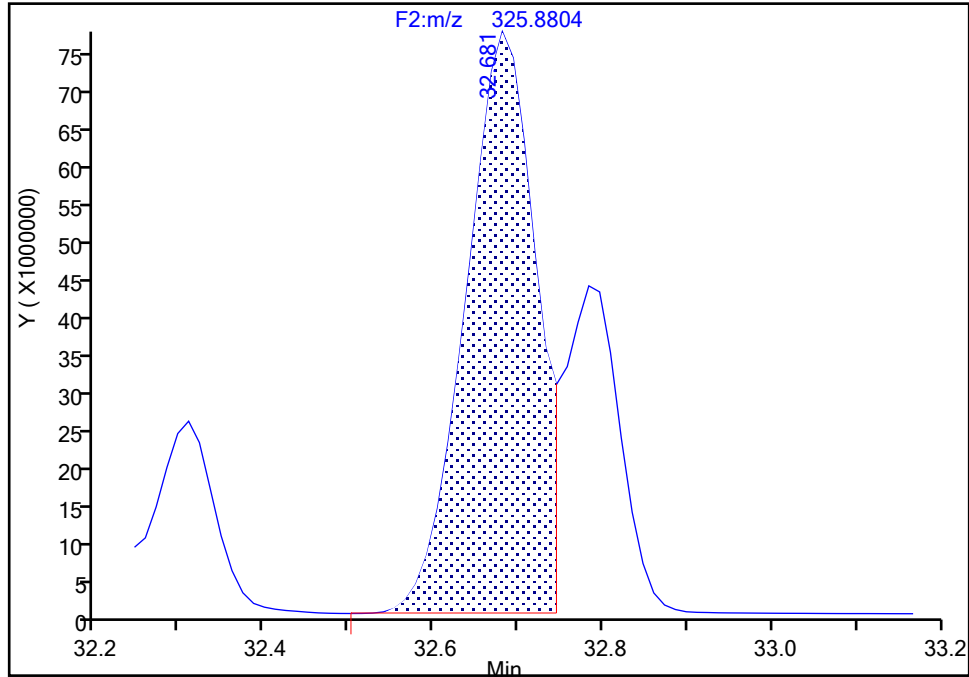
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

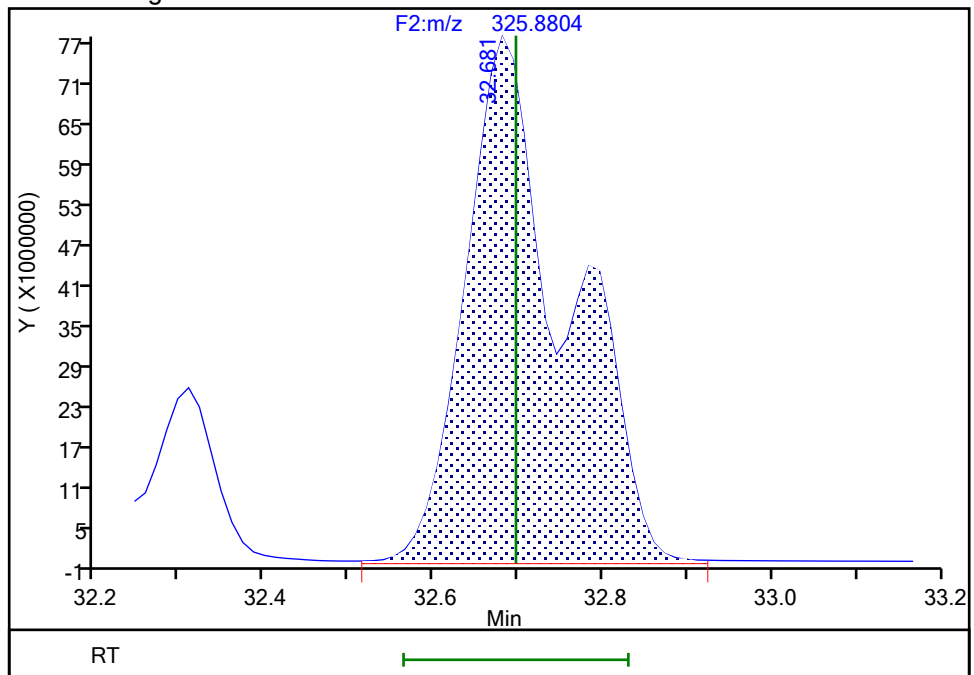
RT: 32.68
Area: 444165024
Amount: 10348
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 646388537
Amount: 14115
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2169 of 3076

9/6/2024 2:43:26 PM
BASFHWC-GS-2024-03621

Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

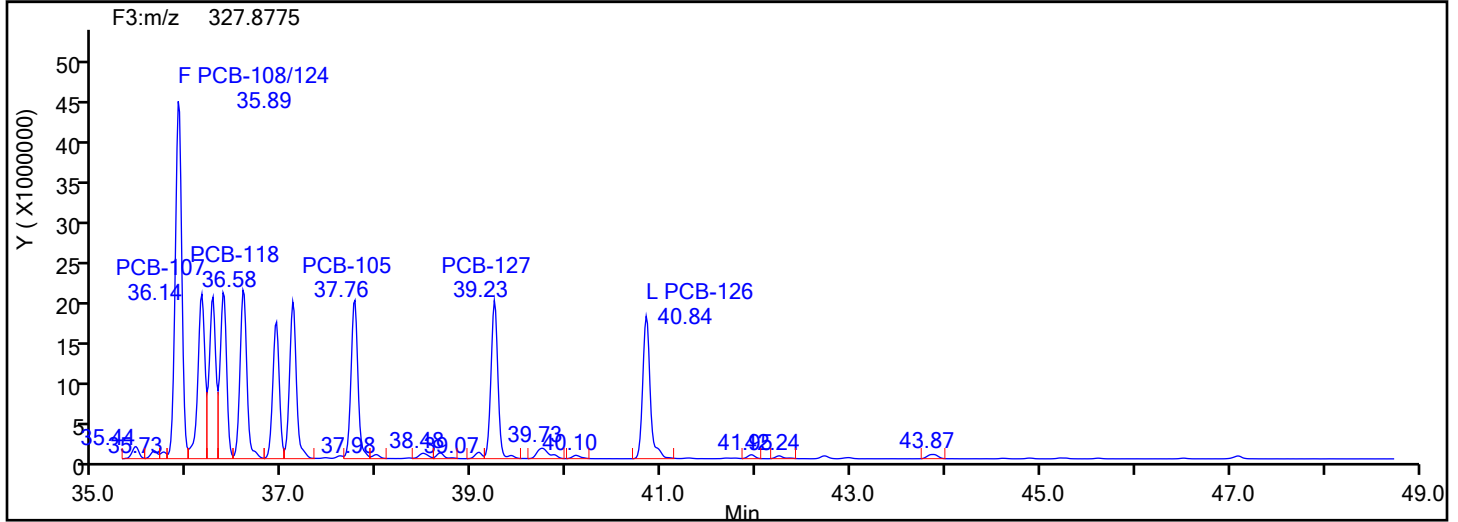
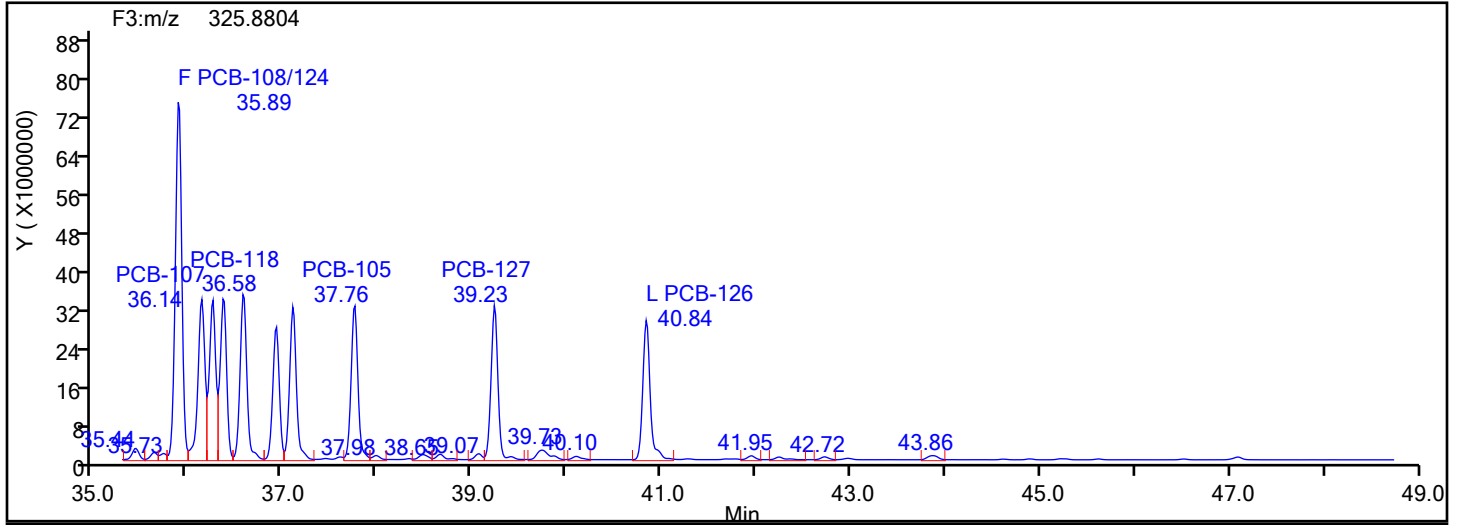
Worklist#: 87130

Sample Line#: 6

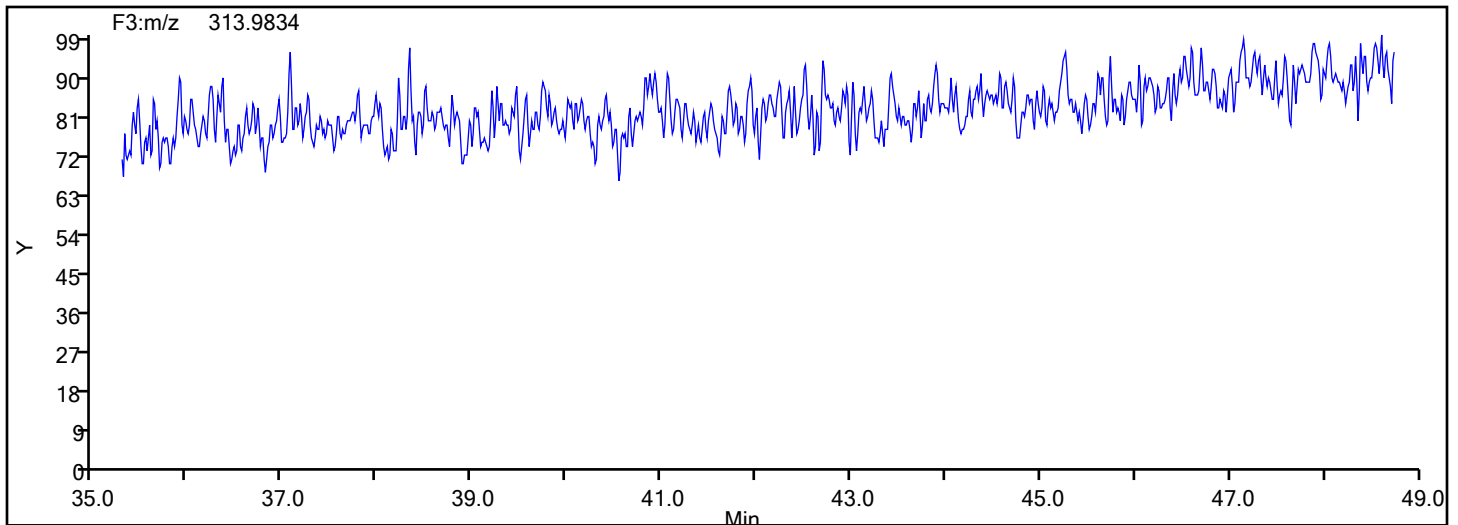
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

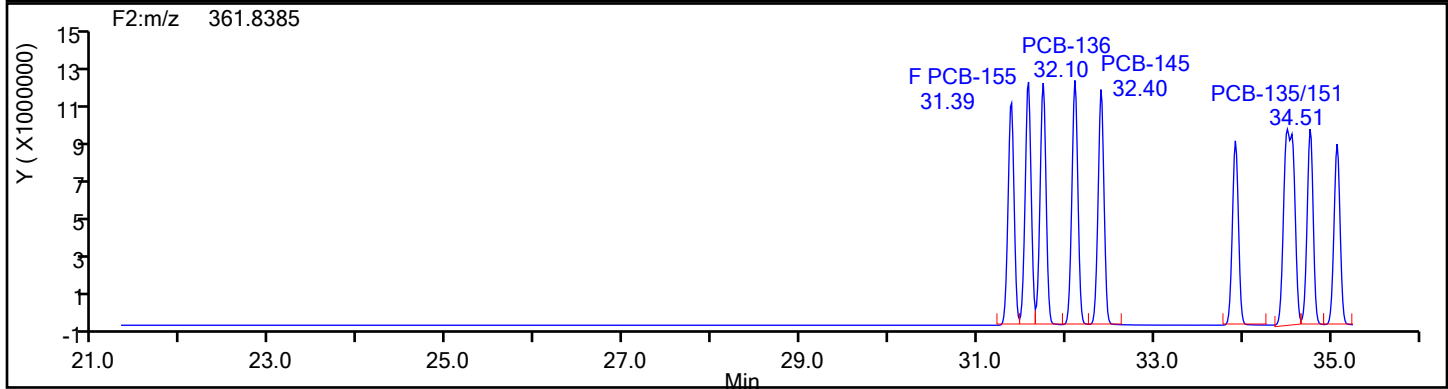
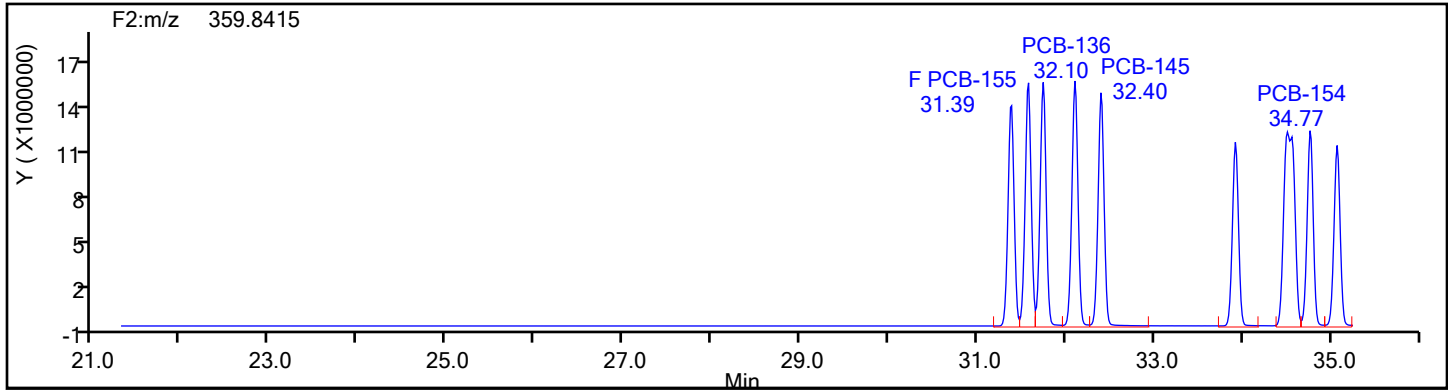
Worklist#: 87130

Sample Line#: 6

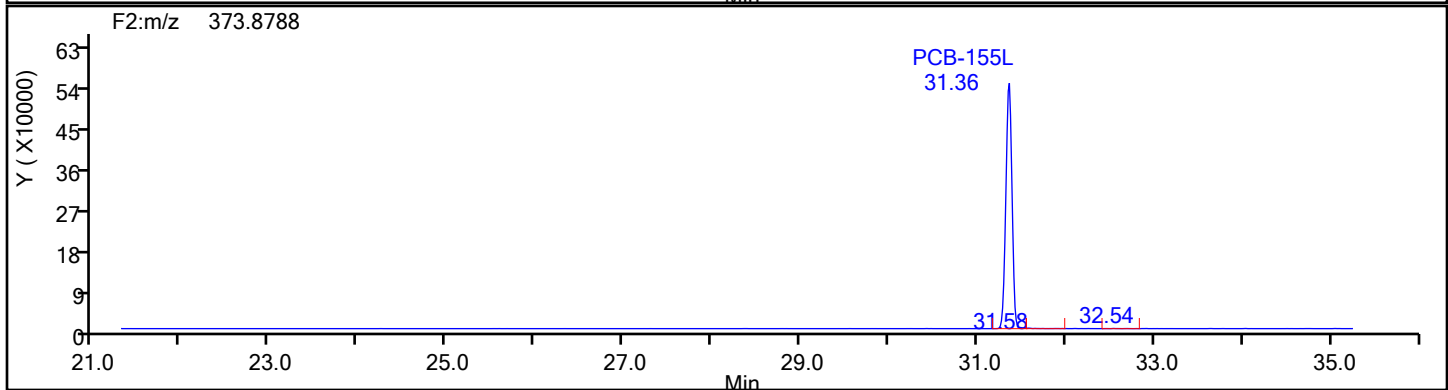
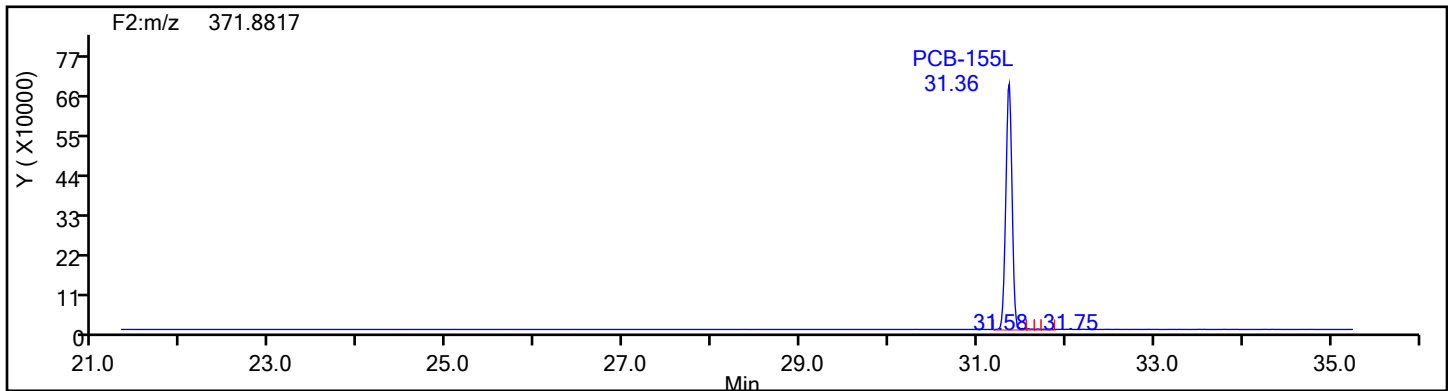
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

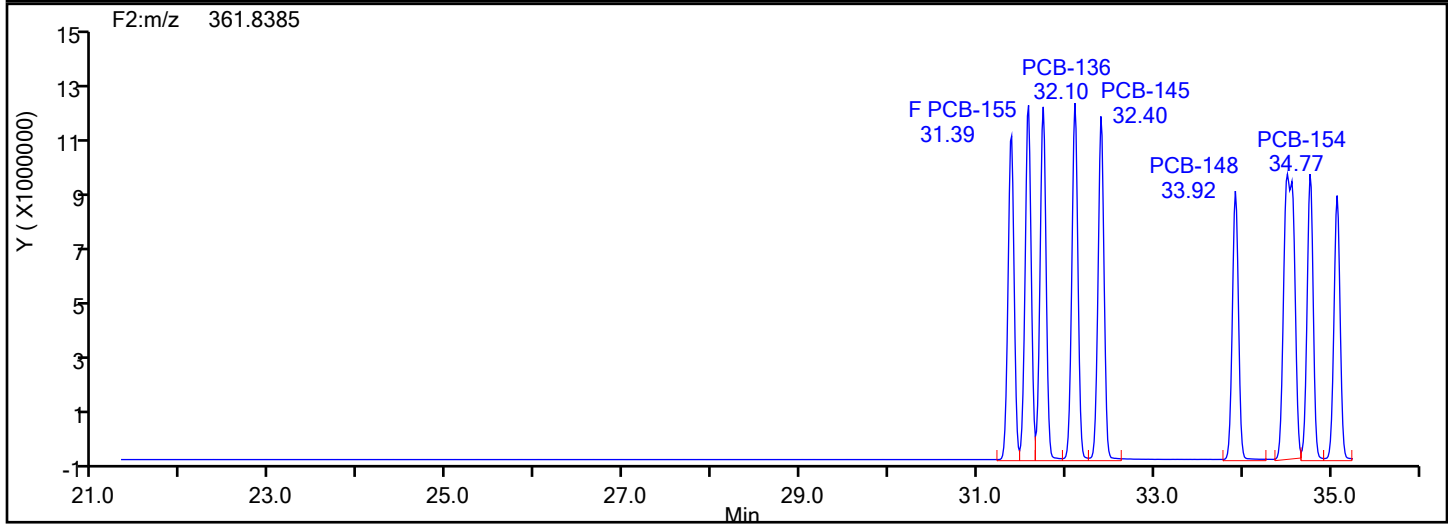
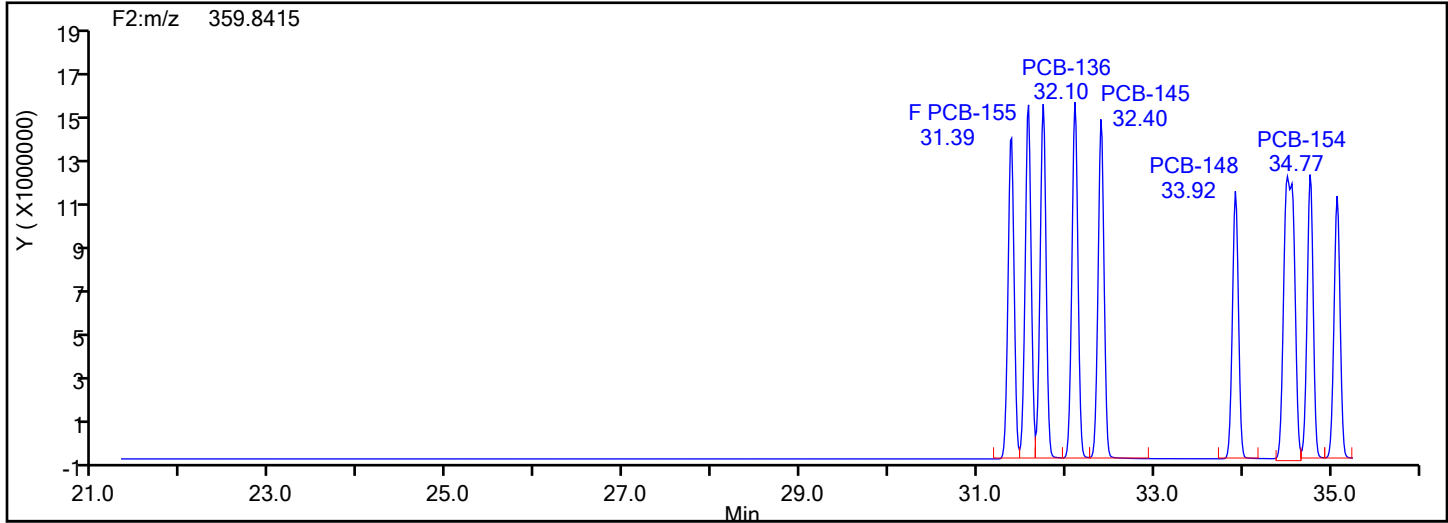


HxPCB F2 Standards

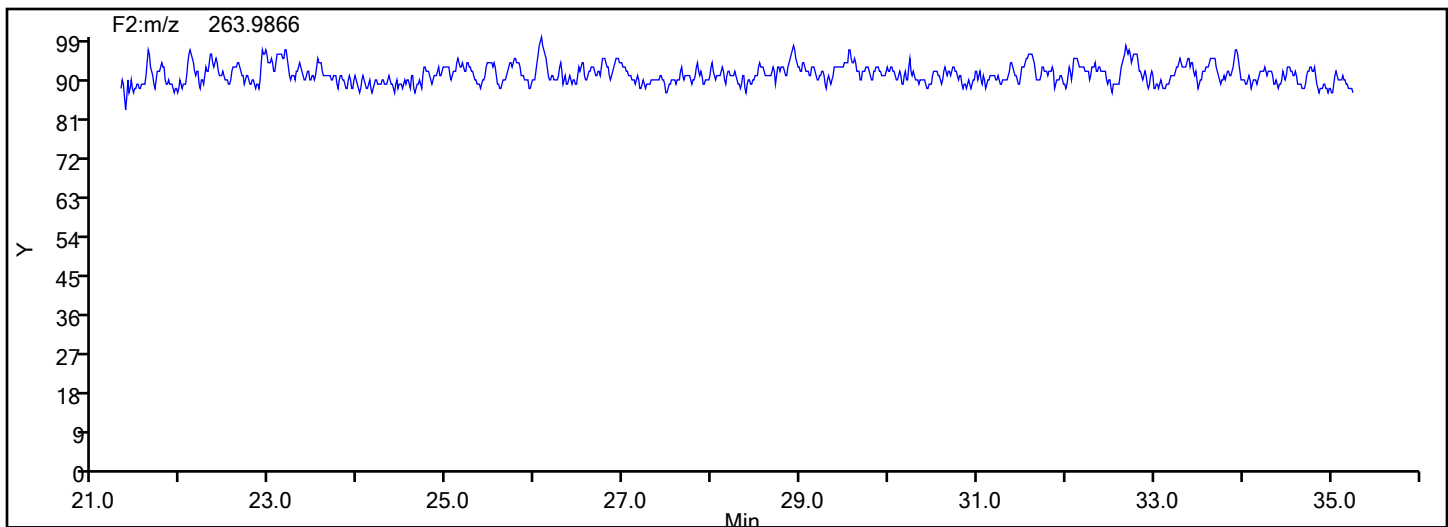


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

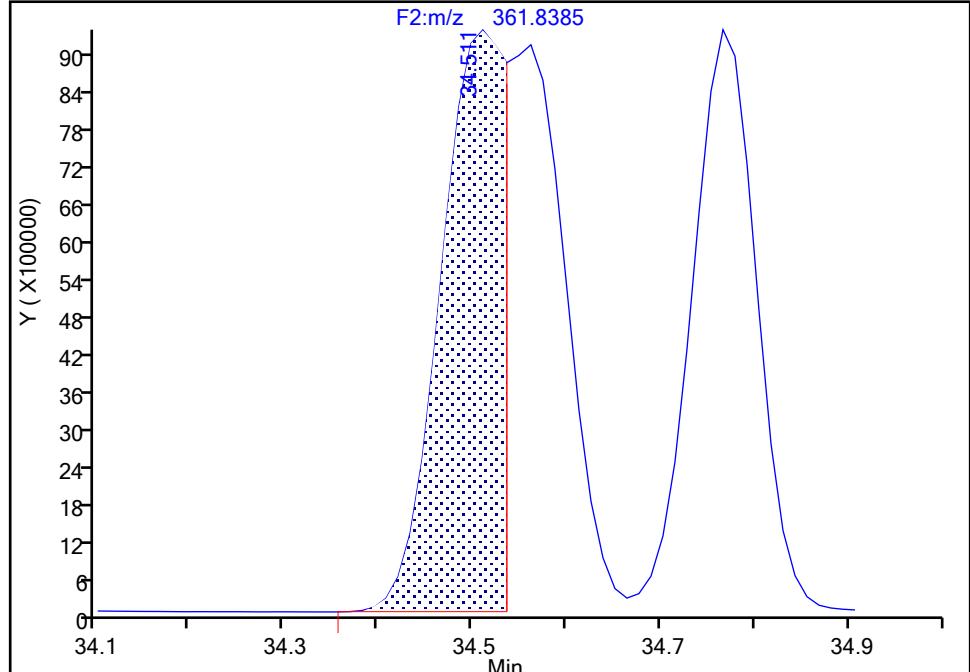
Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

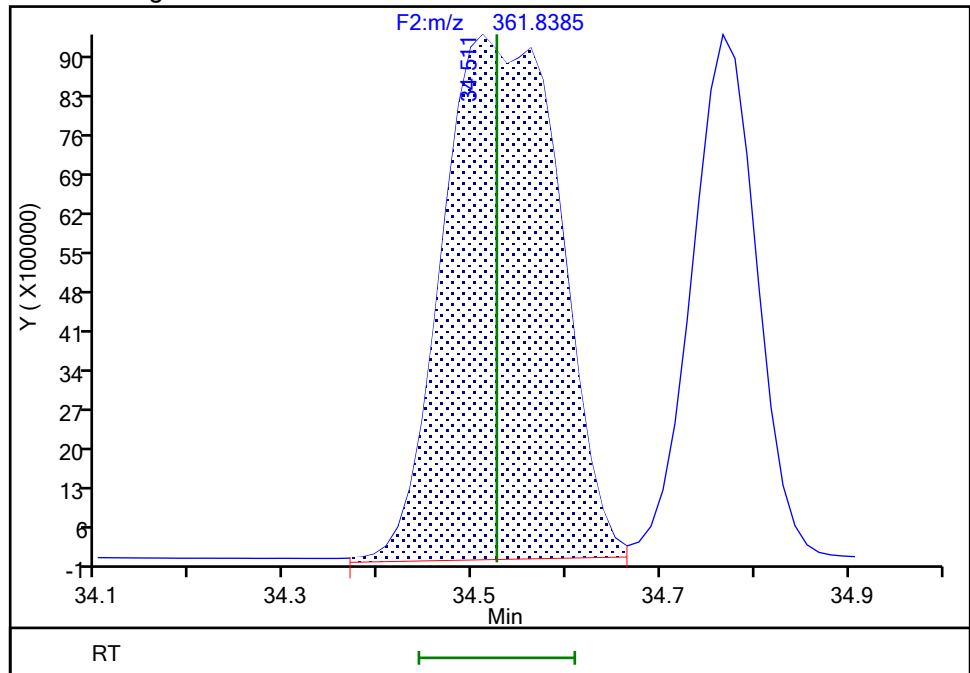
RT: 34.51
Area: 42930870
Amount: 2423.1663
Amount Units: pg/ul

Processing Integration Results



RT: 34.51
Area: 81482346
Amount: 4229.7884
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

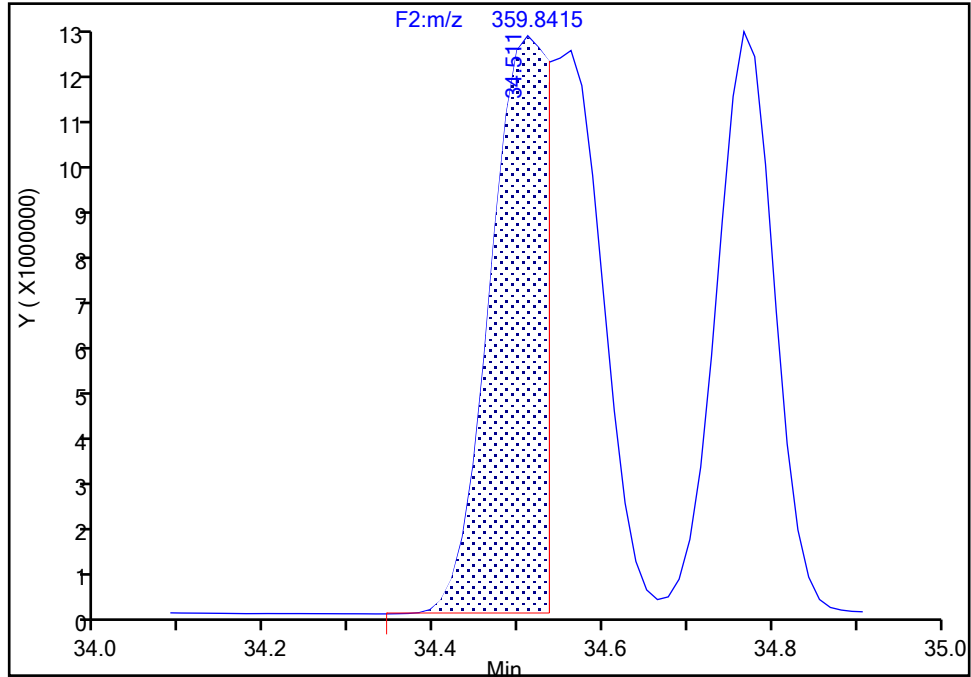
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

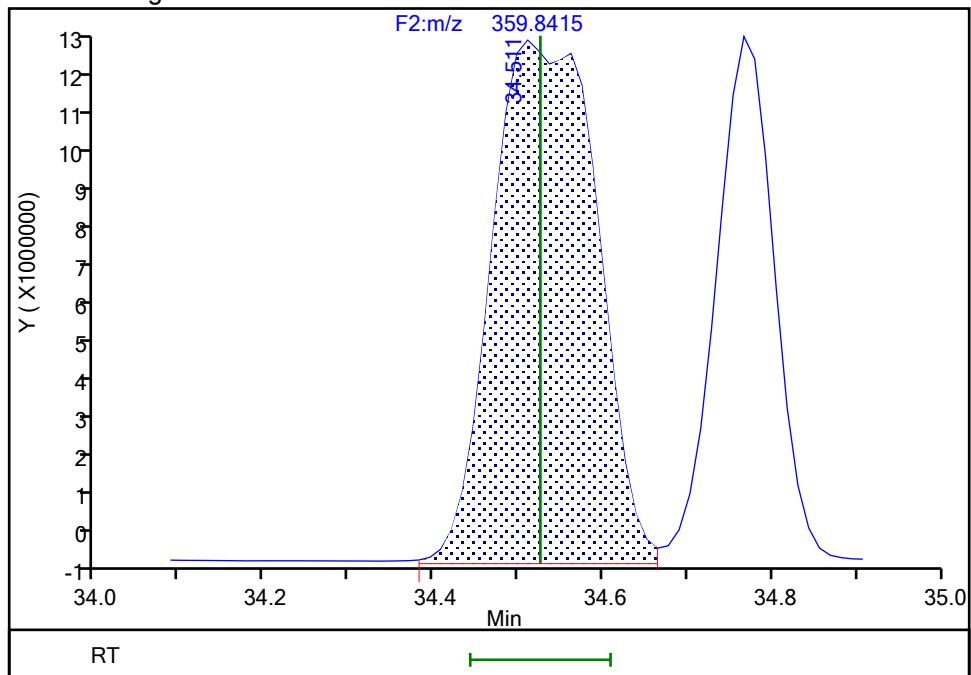
RT: 34.51
Area: 54337182
Amount: 2423.1663
Amount Units: pg/ul

Processing Integration Results



RT: 34.51
Area: 103820478
Amount: 4229.7884
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

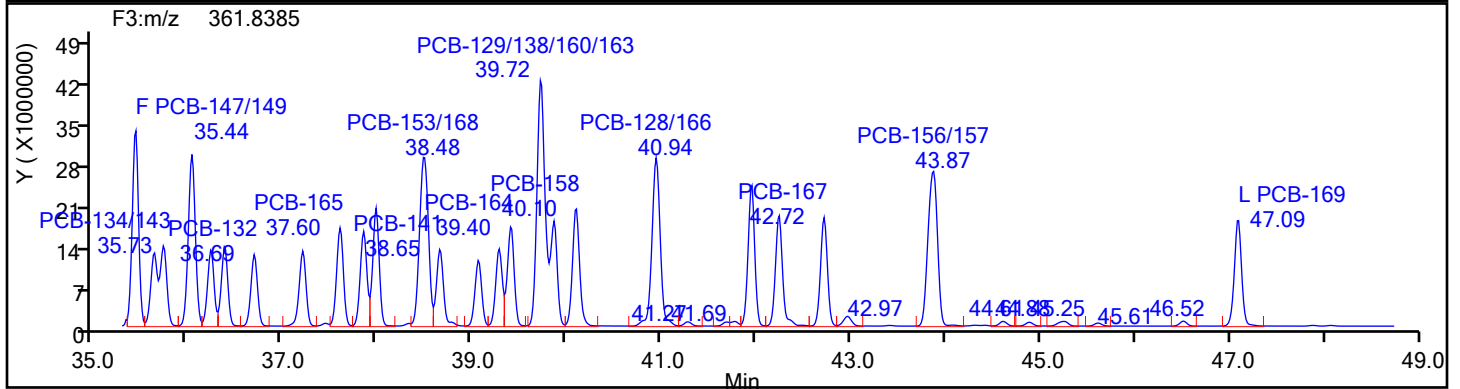
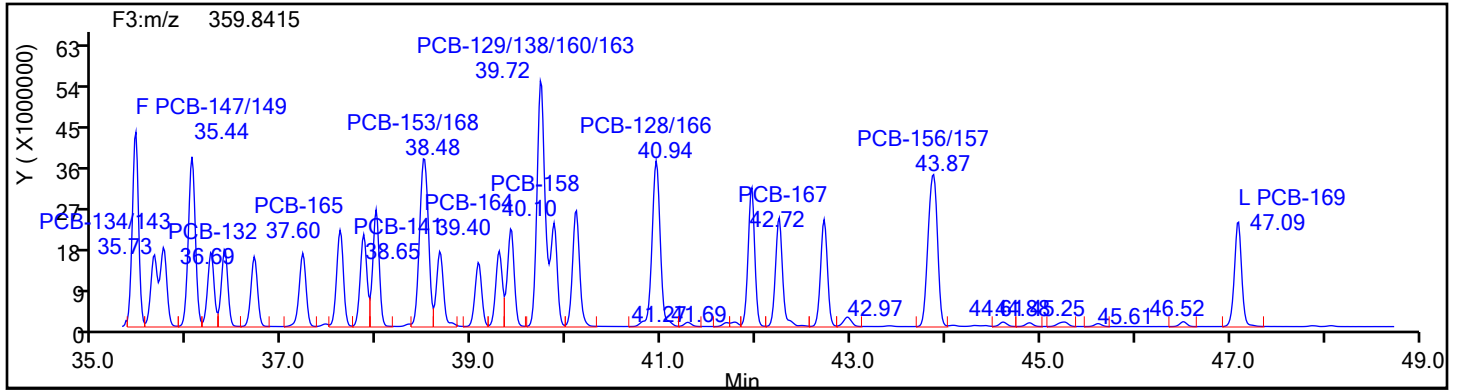
Worklist#: 87130

Sample Line#: 6

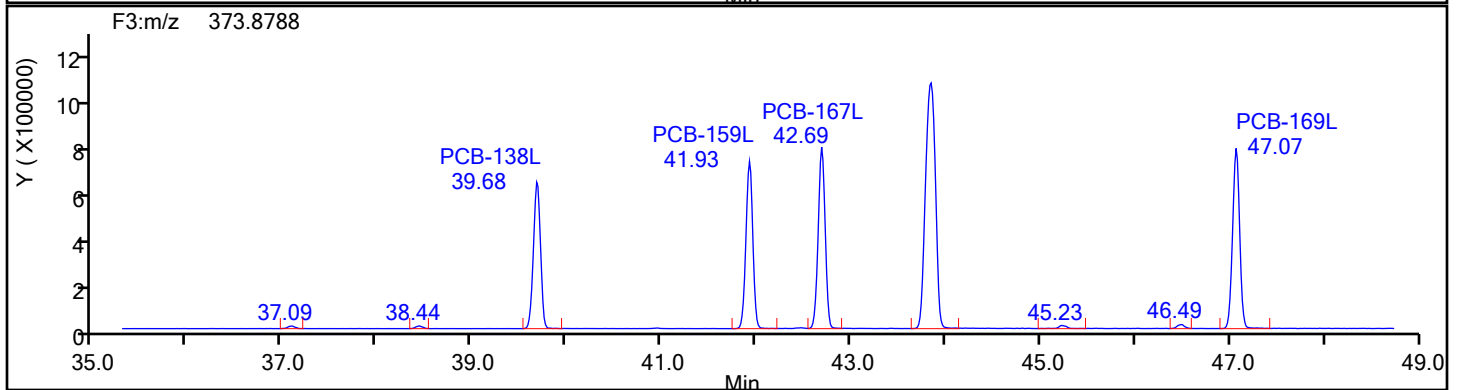
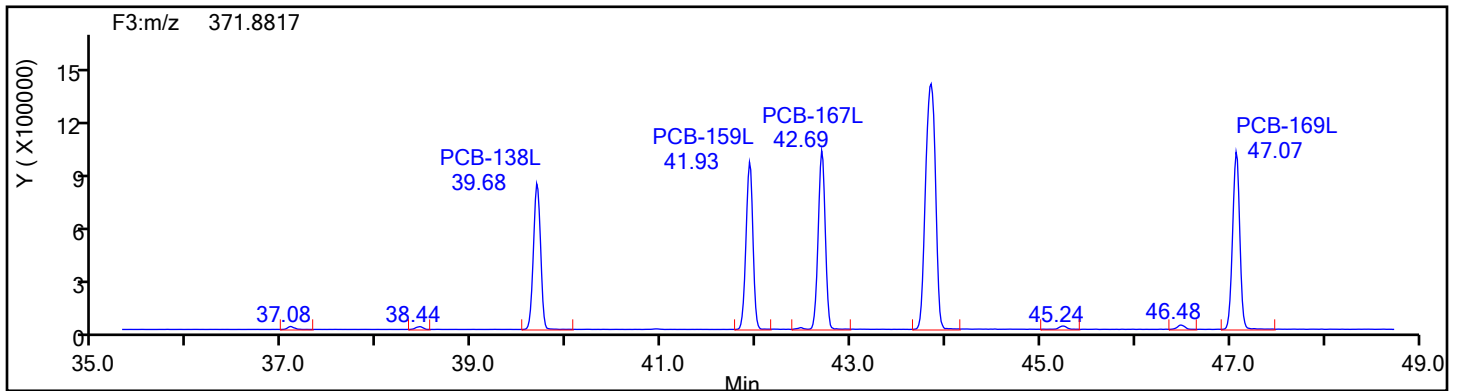
Column Type: SPB-Octyl

Column Dia: 0.25 mm

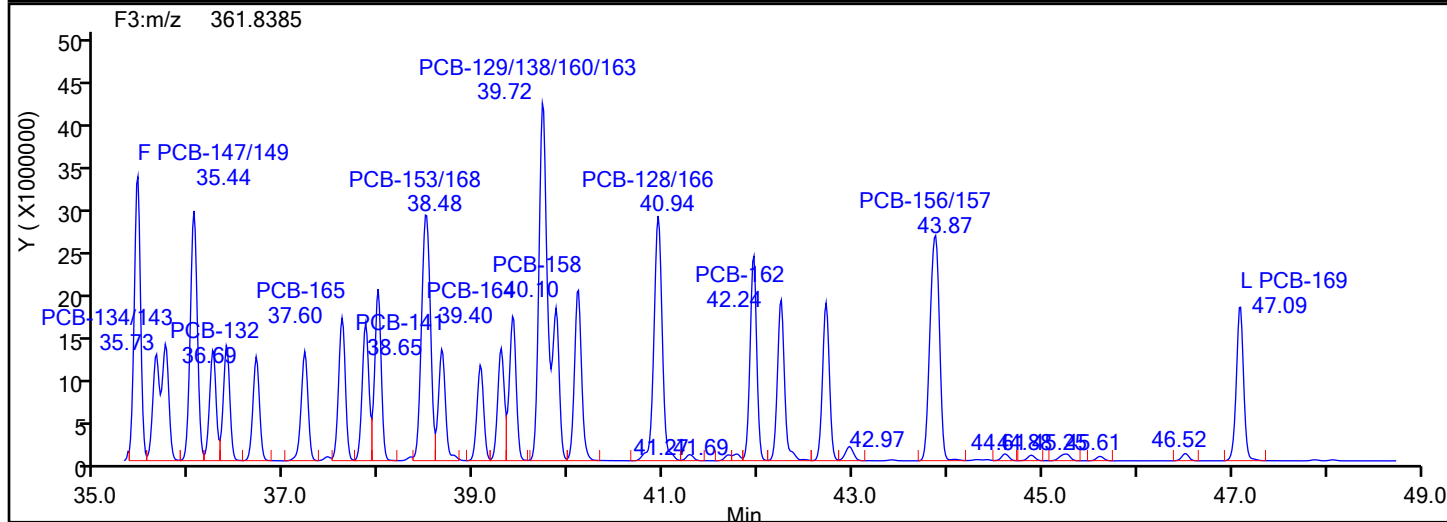
HxPCB F3



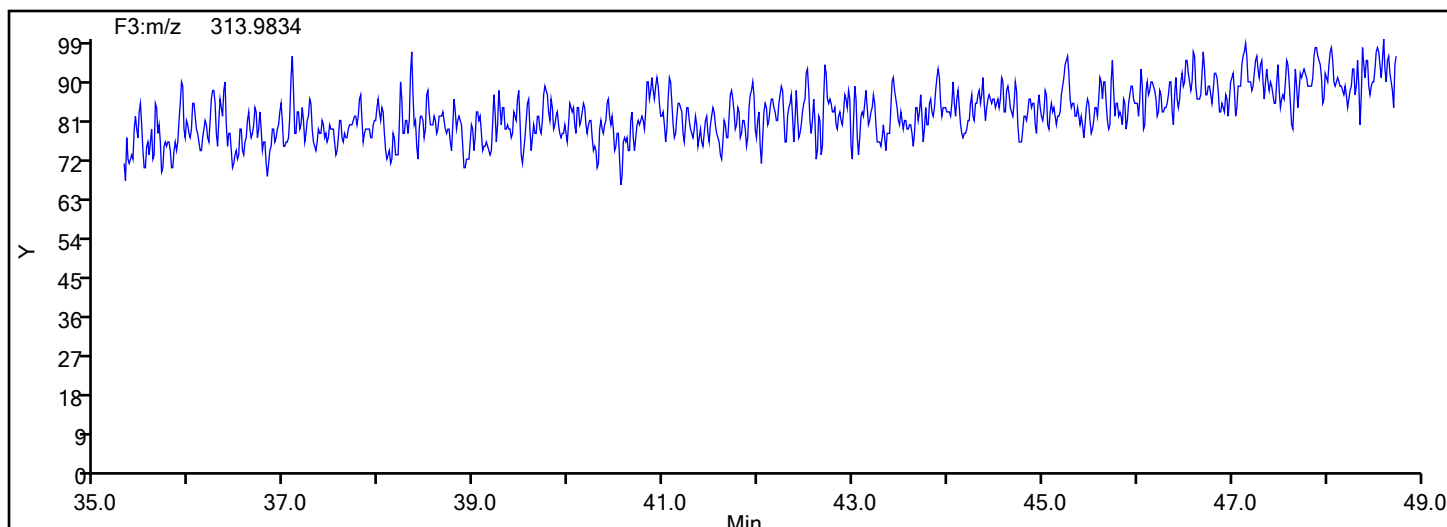
HxPCB F3 Standards



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d		
Injection Date:	31-May-2024 21:13:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	87130	Sample Line#:	6
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
HxPCB F3			



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

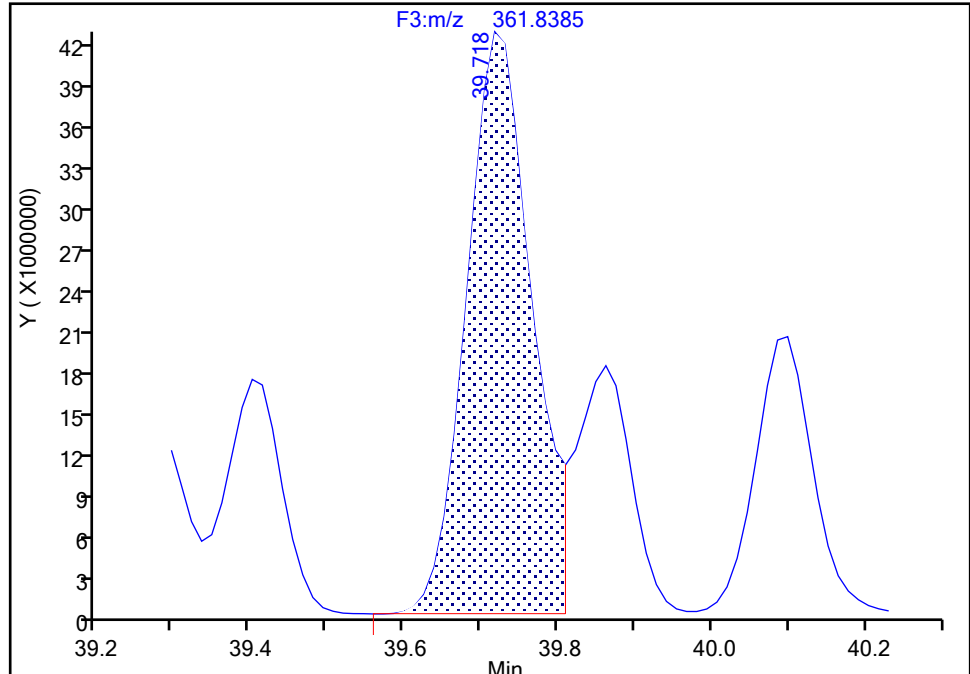
Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

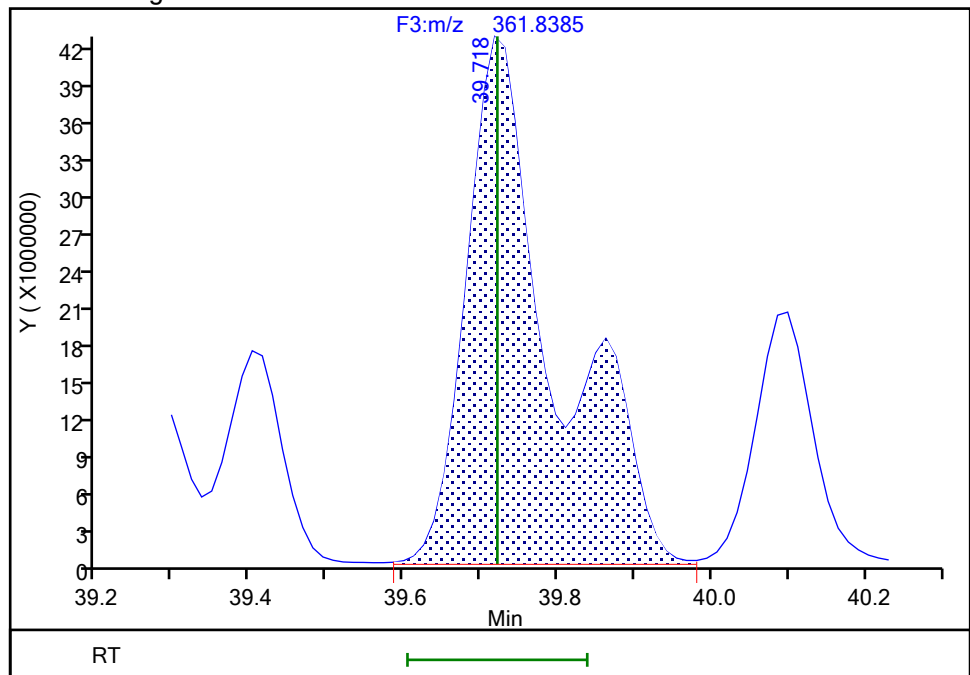
RT: 39.72
Area: 247810200
Amount: 6869.7619
Amount Units: pg/ul

Processing Integration Results



RT: 39.72
Area: 336254921
Amount: 8823.7691
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:07:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

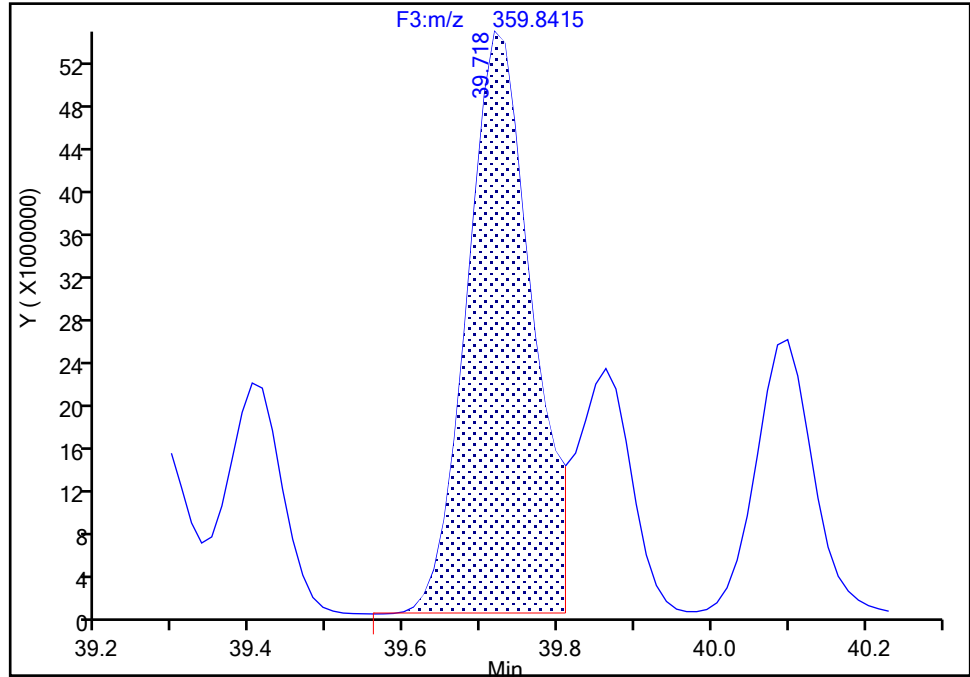
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

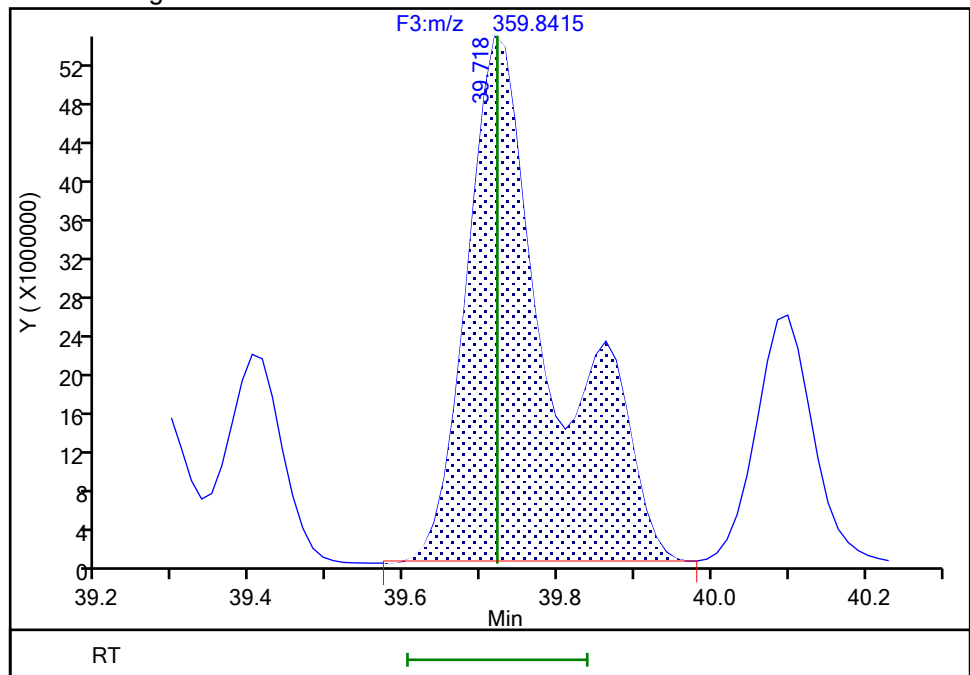
RT: 39.72
Area: 318487189
Amount: 6869.7619
Amount Units: pg/ul

Processing Integration Results



RT: 39.72
Area: 427397226
Amount: 8823.7691
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:07:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024 2:43:26 PM
BASFHWC-GS-2024-3631

Chrom Revision: 2.3 20-May-2024 22:00:34

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Vol: 1.0 ul

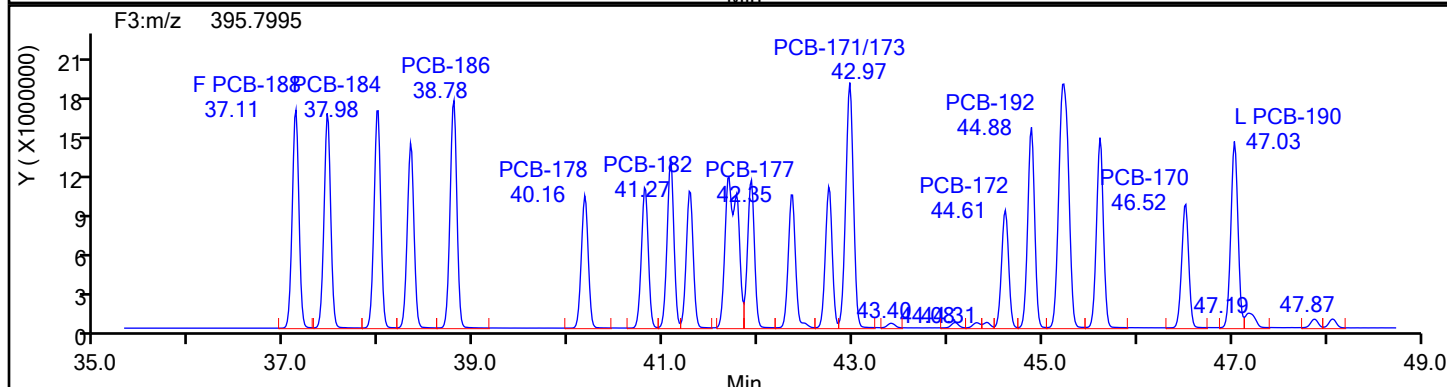
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

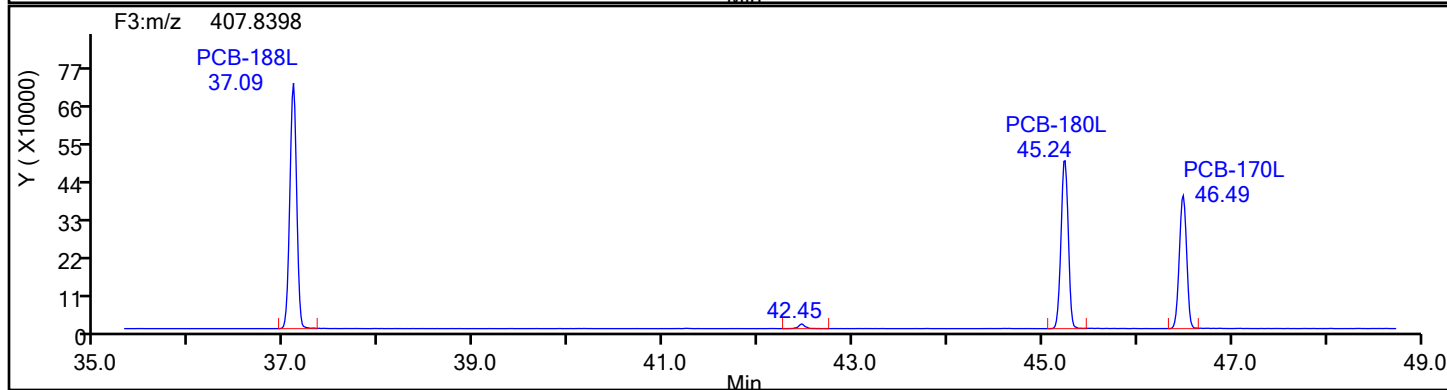
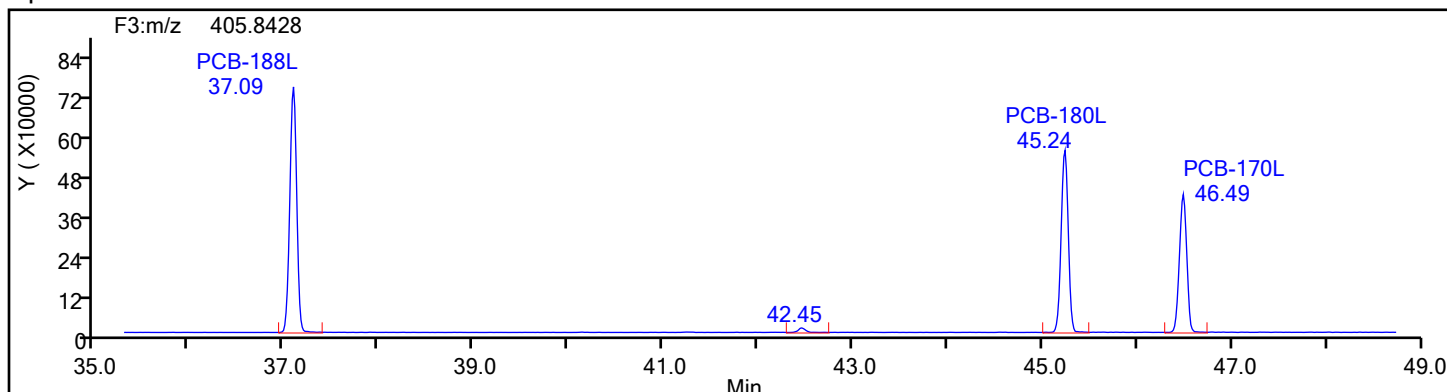
Sample Line#: 6

Column Dia: 0.25 mm

Column Dia: 0.25 mm



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

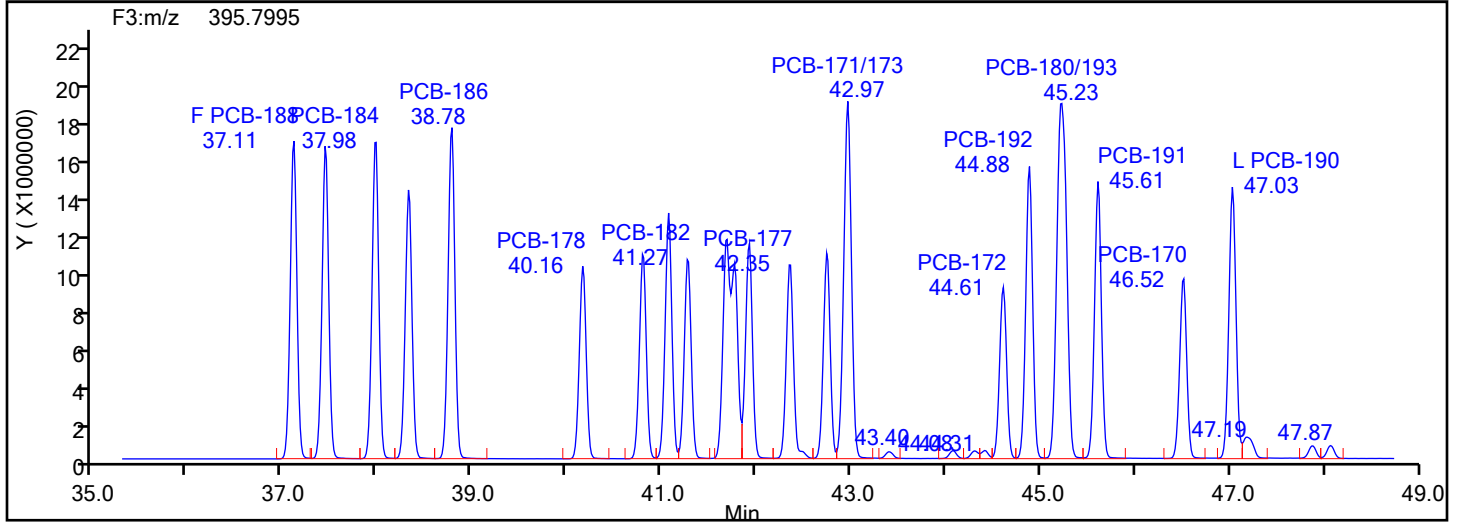
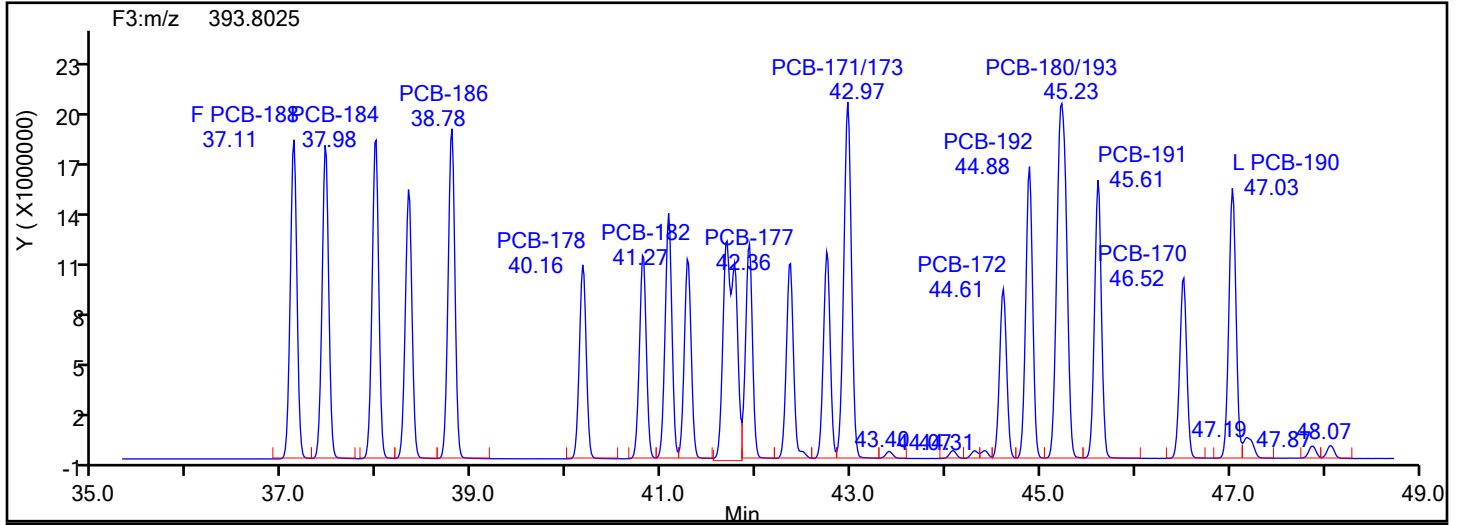
Worklist#: 87130

Sample Line#: 6

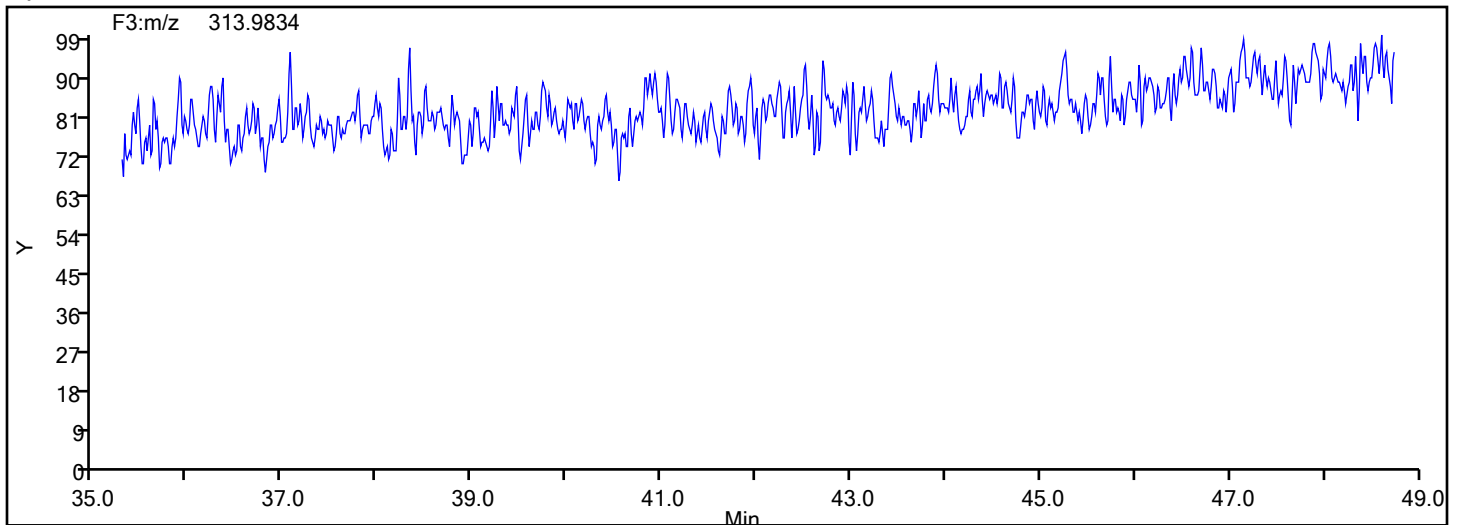
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

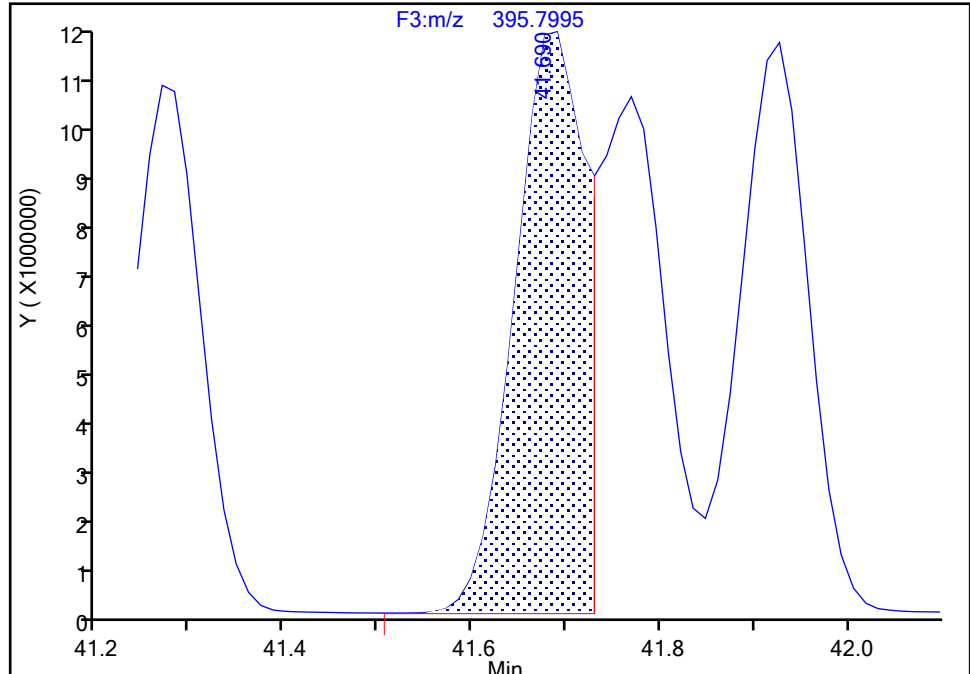
Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

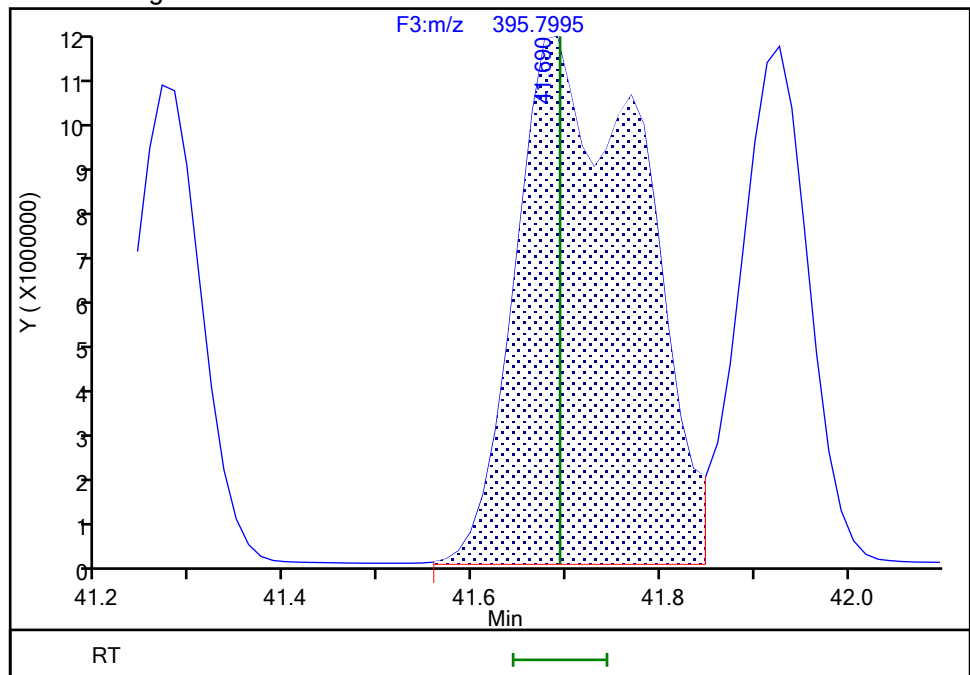
RT: 41.69
Area: 60297364
Amount: 2295.3297
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 109695368
Amount: 3898.4922
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:07:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

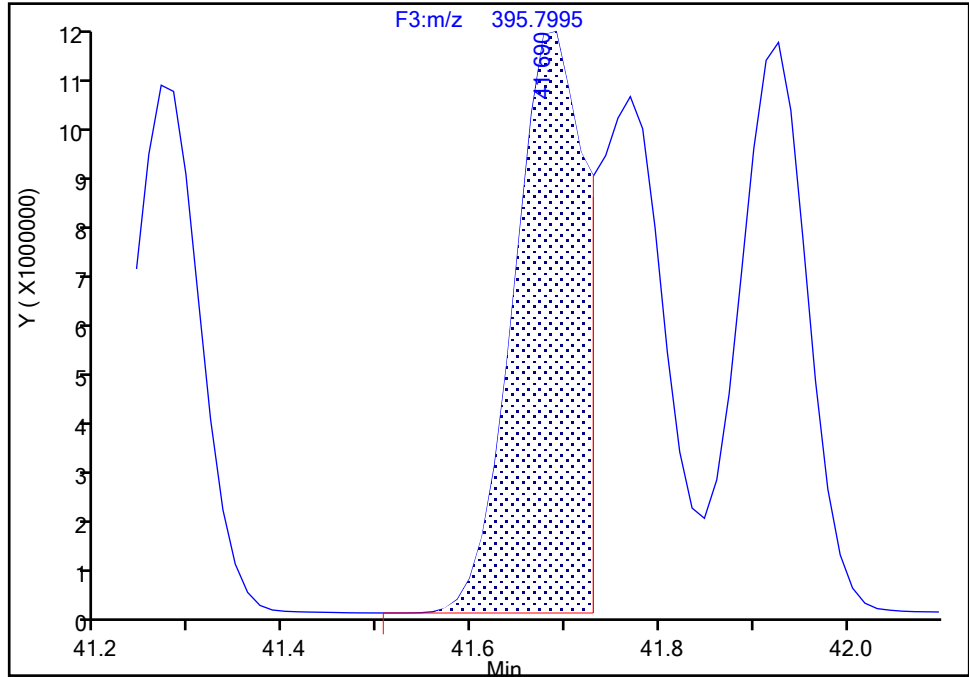
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

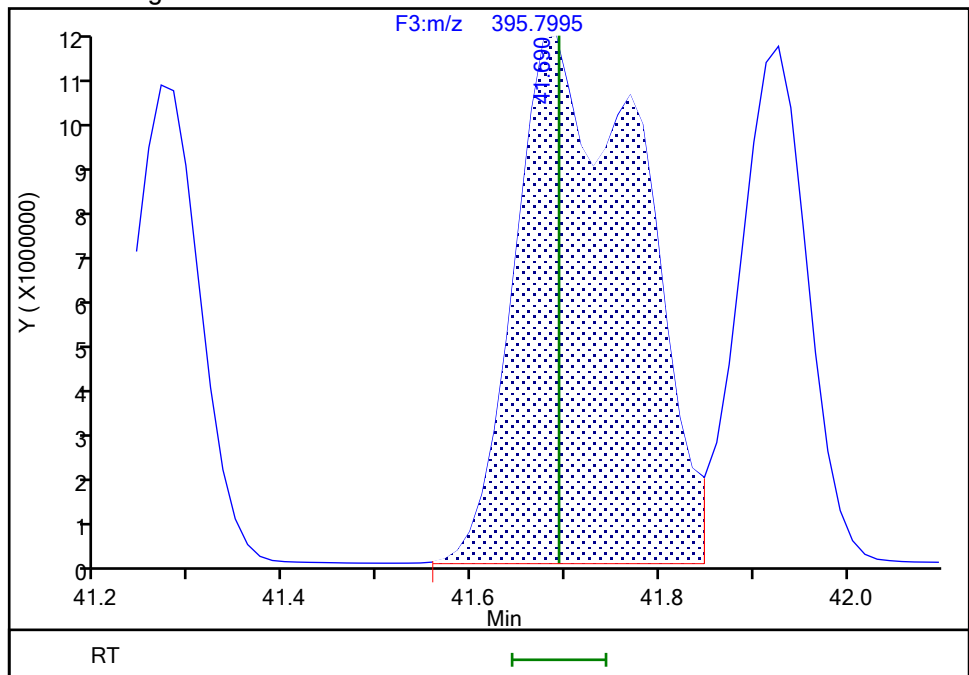
RT: 41.69
Area: 60297364
Amount: 2295.3297
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 109695368
Amount: 3898.4922
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:07:58 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

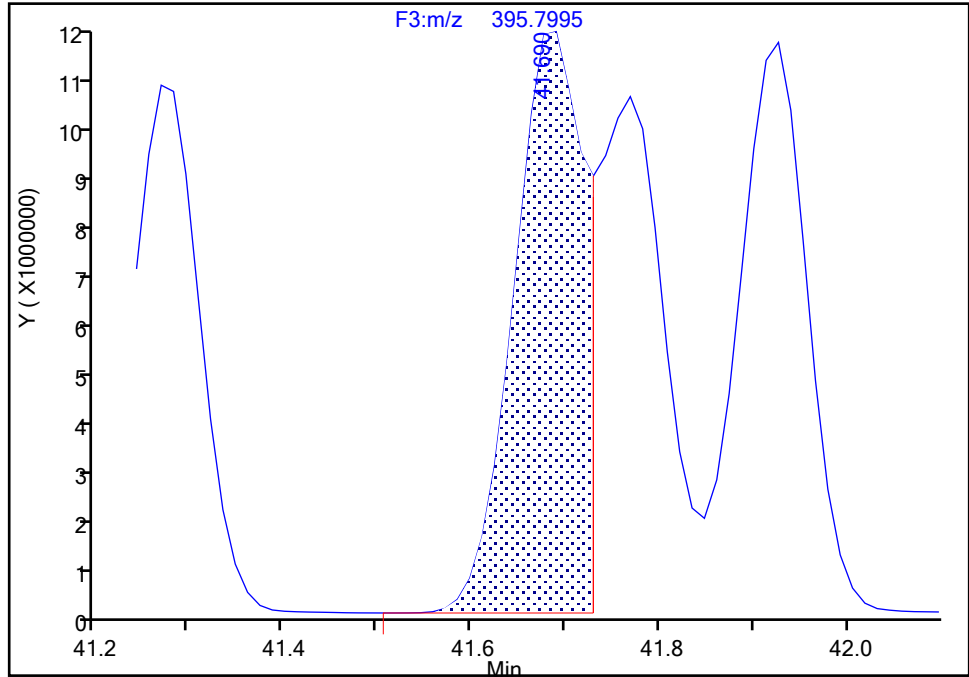
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 3

RT: 41.69
Area: 123693877
Amount: 2295.3297
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 41.69
Area: 226842465
Amount: 3898.4922
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:07:58 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

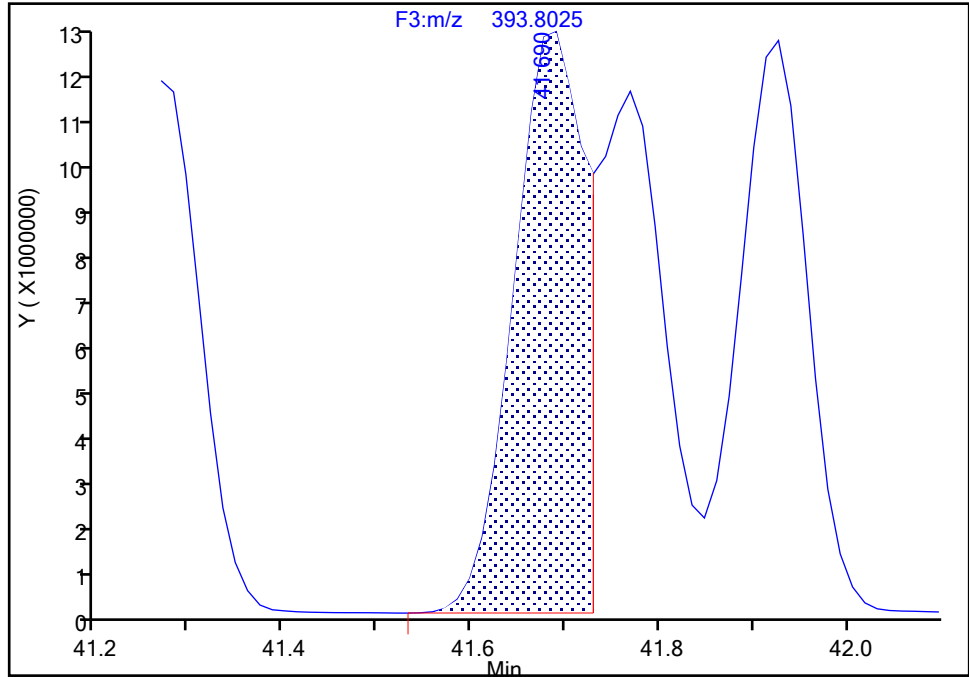
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

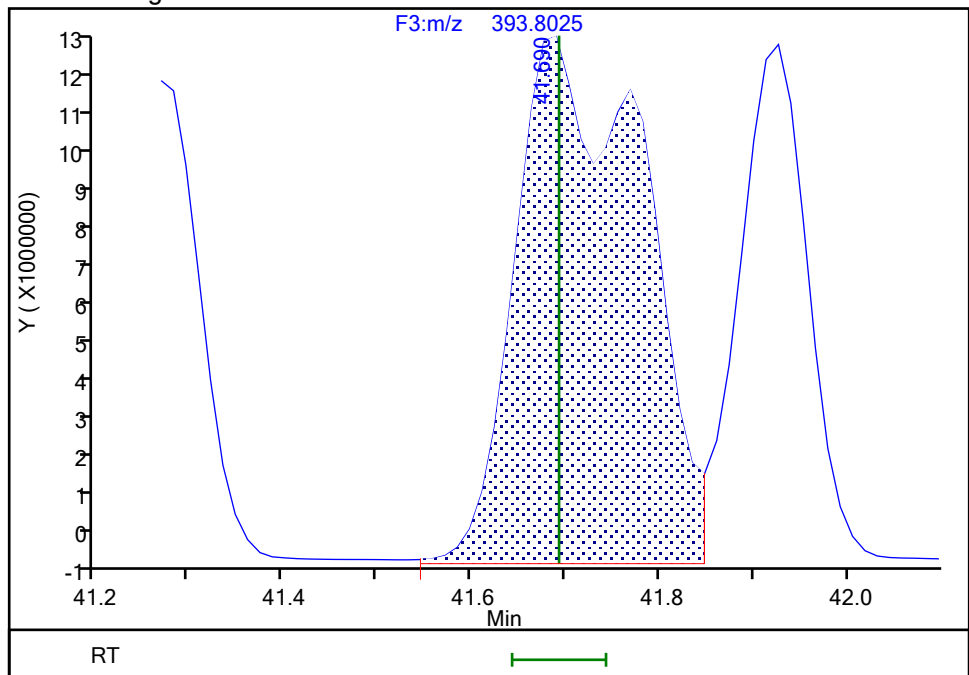
RT: 41.69
Area: 63396513
Amount: 2295.3297
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 117147097
Amount: 3898.4922
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:08:01 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

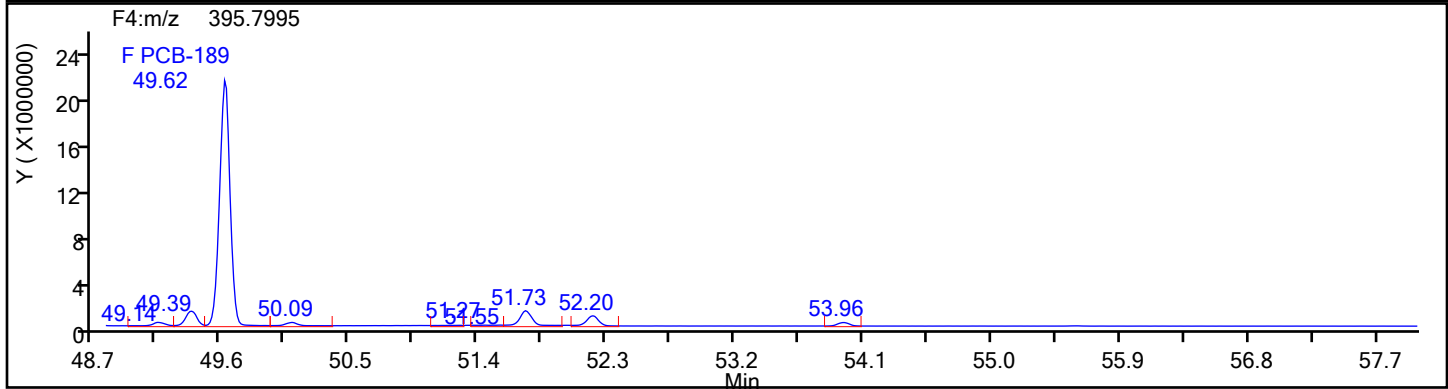
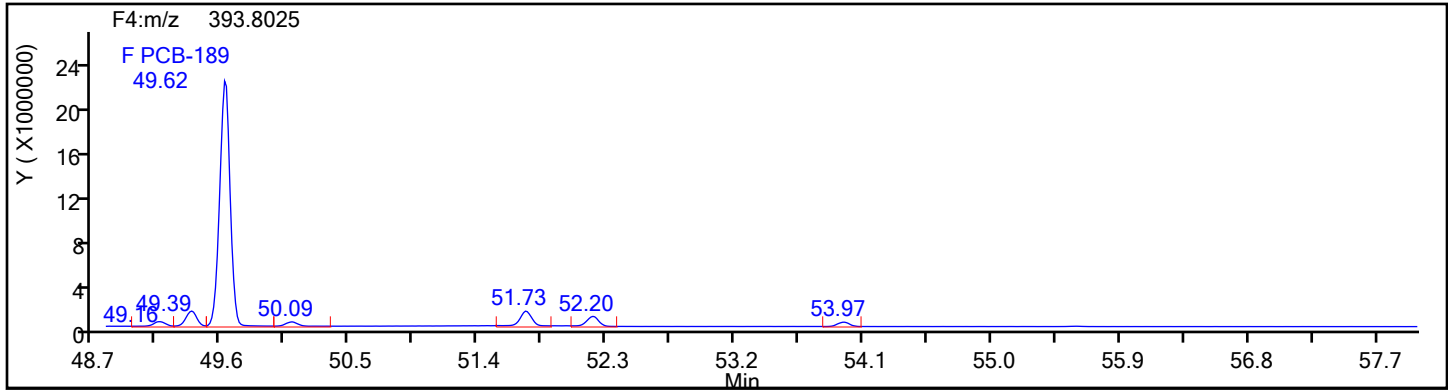
Worklist#: 87130

Sample Line#: 6

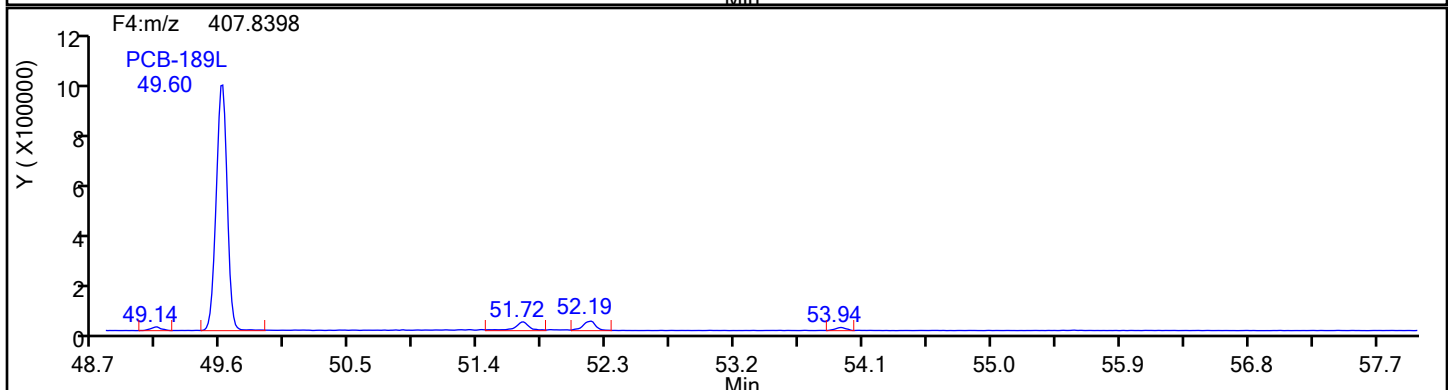
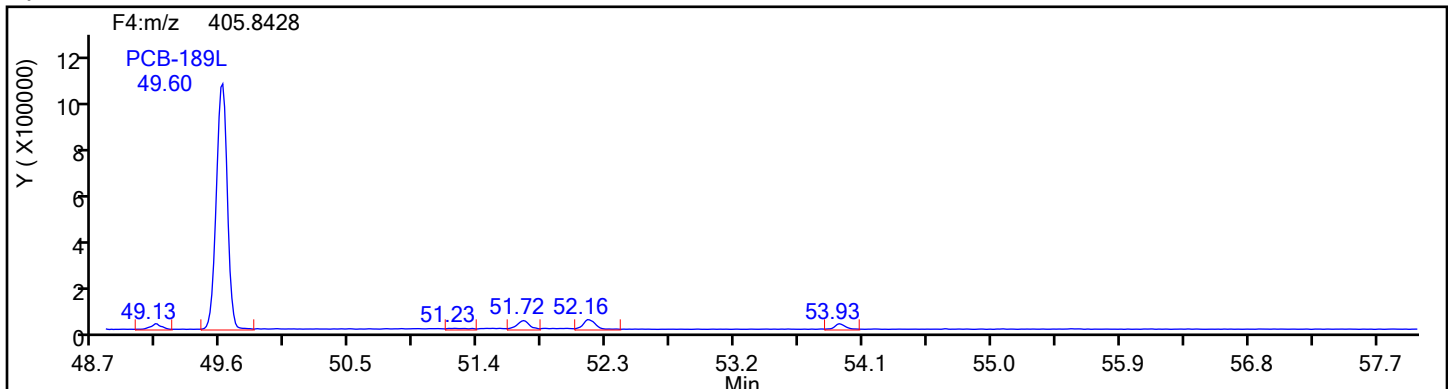
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

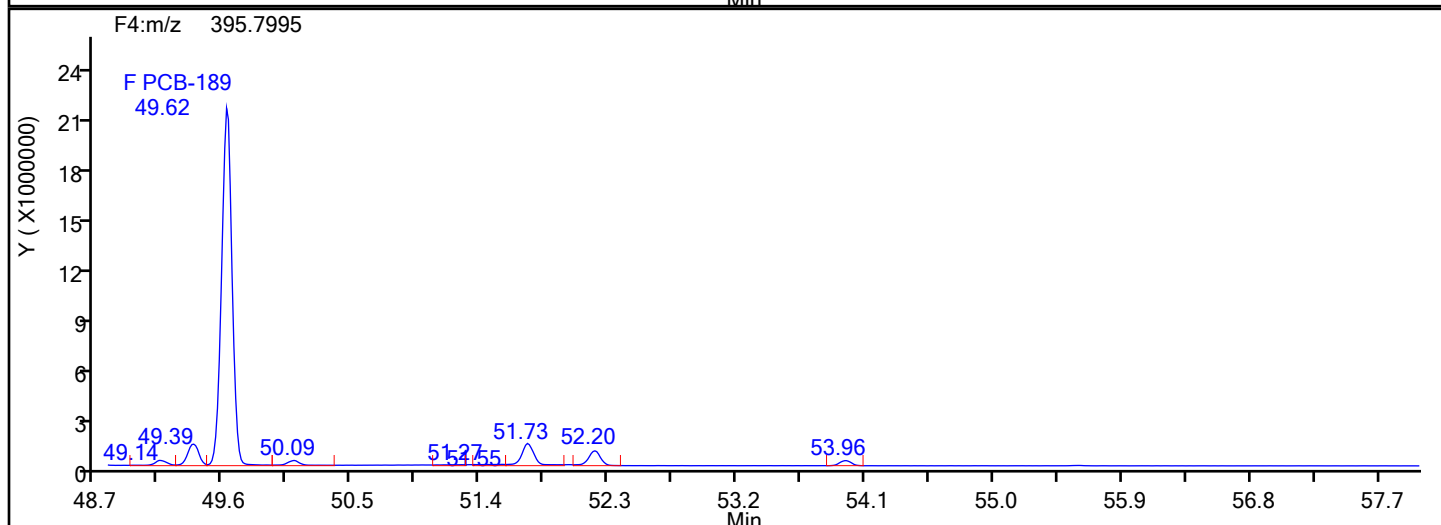
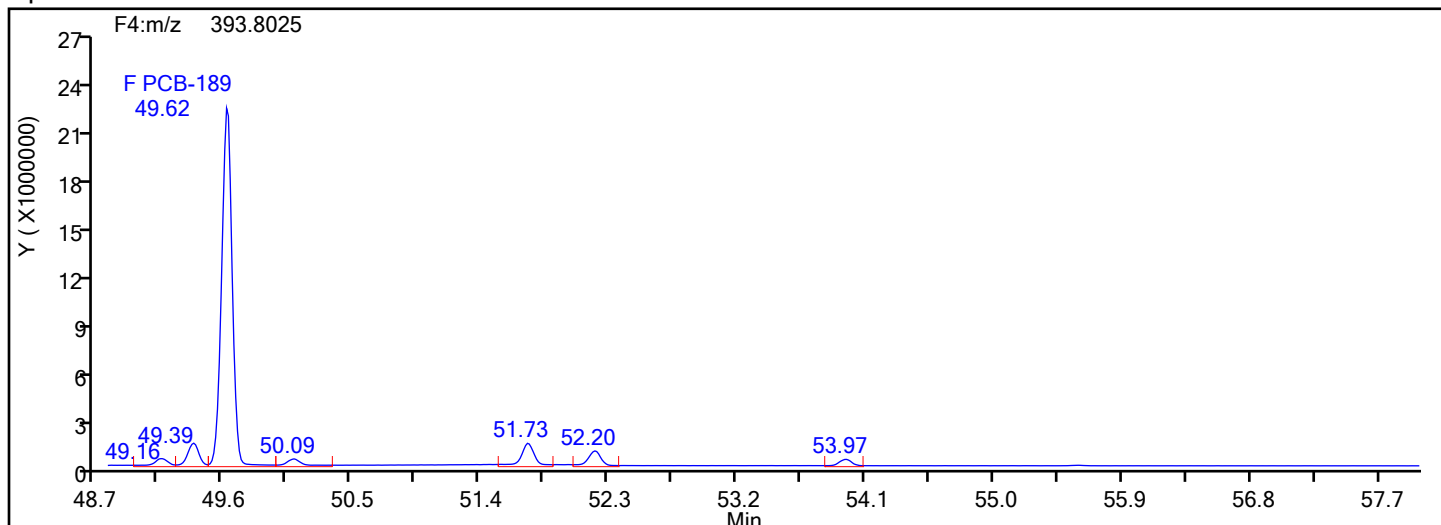
Worklist#: 87130

Sample Line#: 6

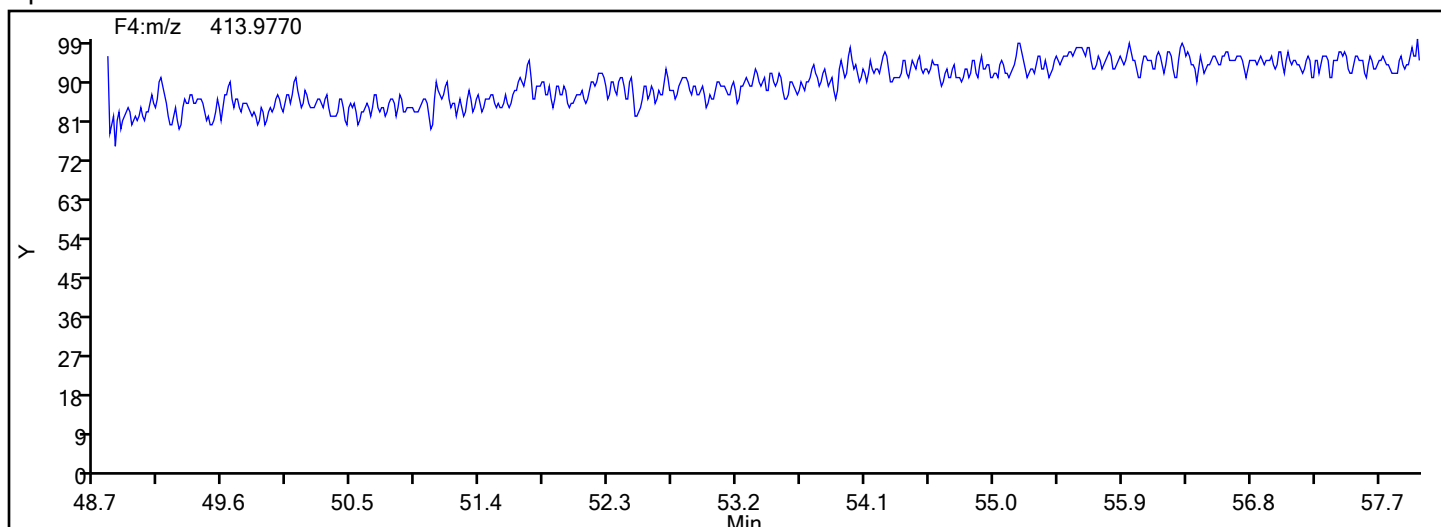
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



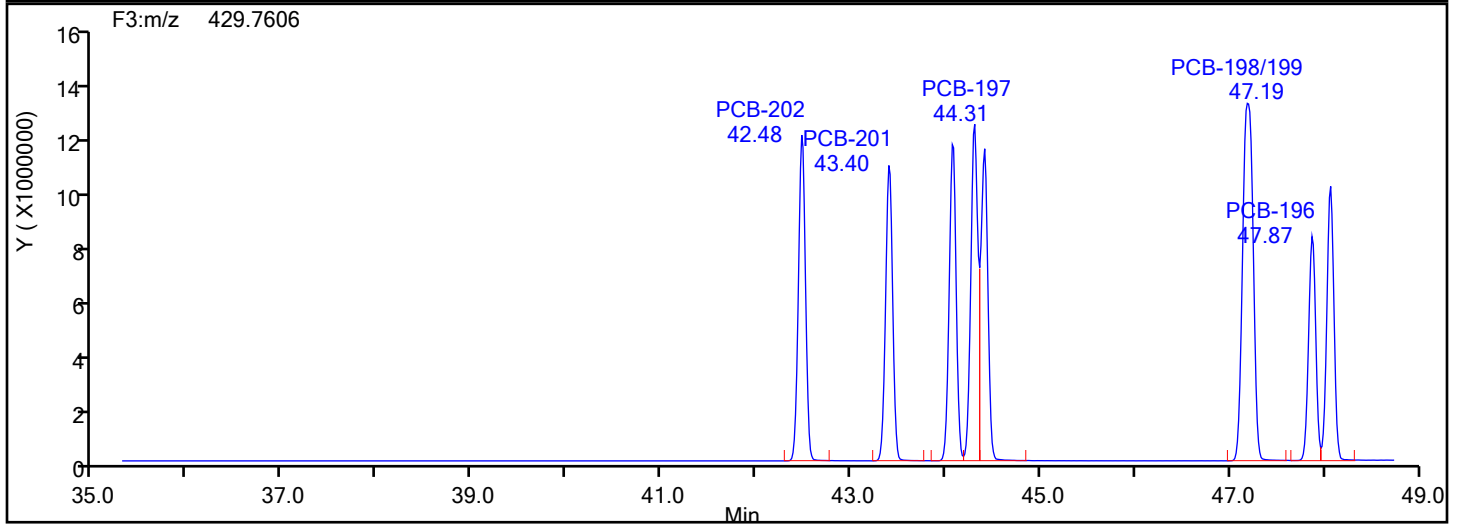
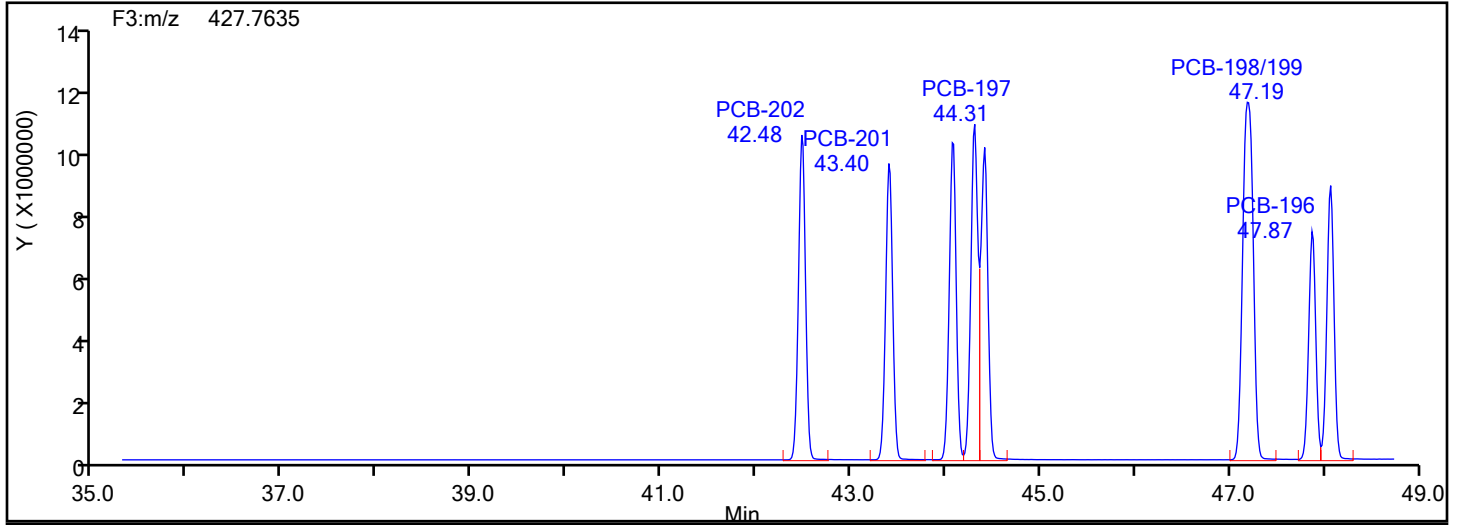
HpPCB F4 Lock Mass



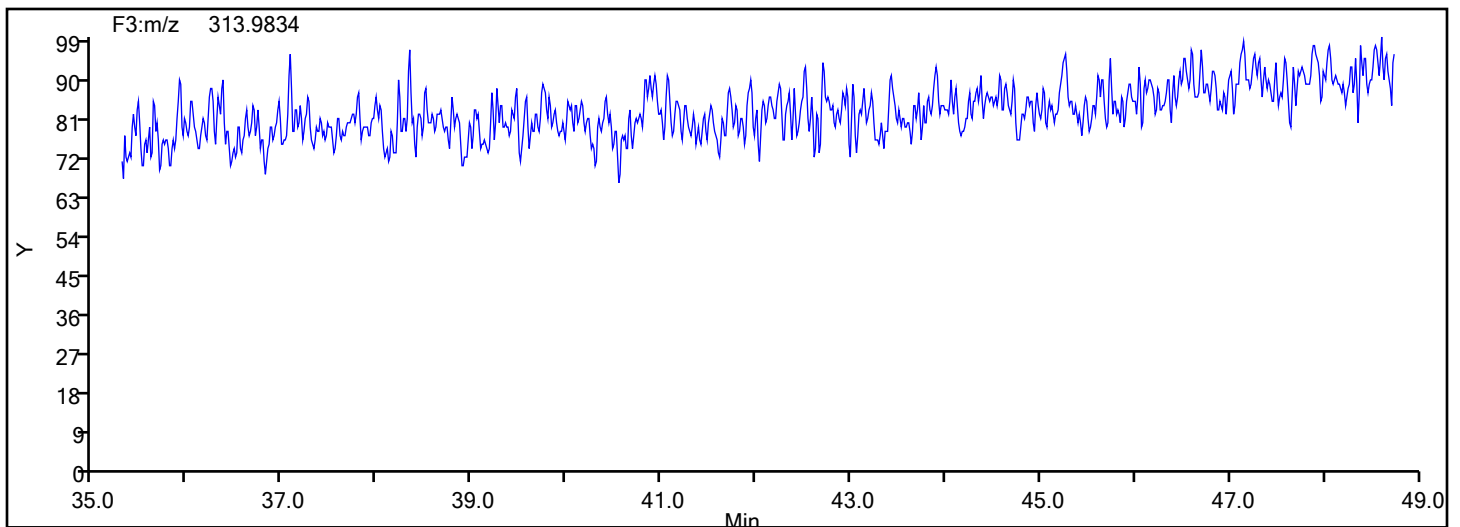
Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

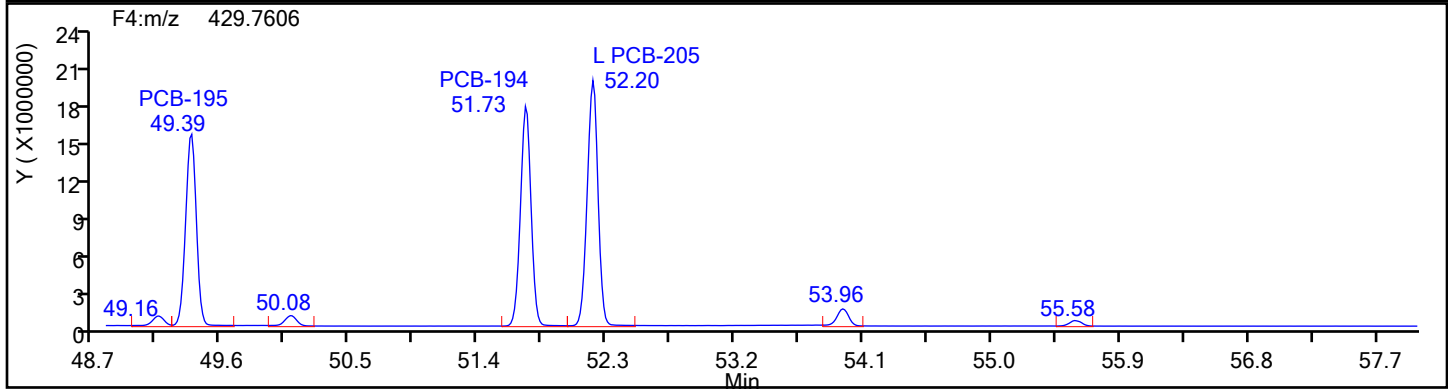
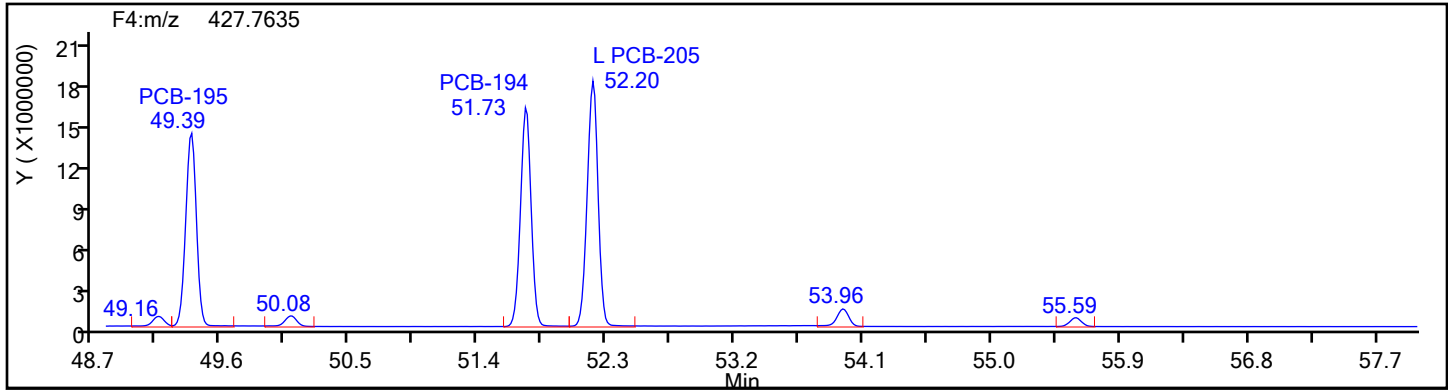
Worklist#: 87130

Sample Line#: 6

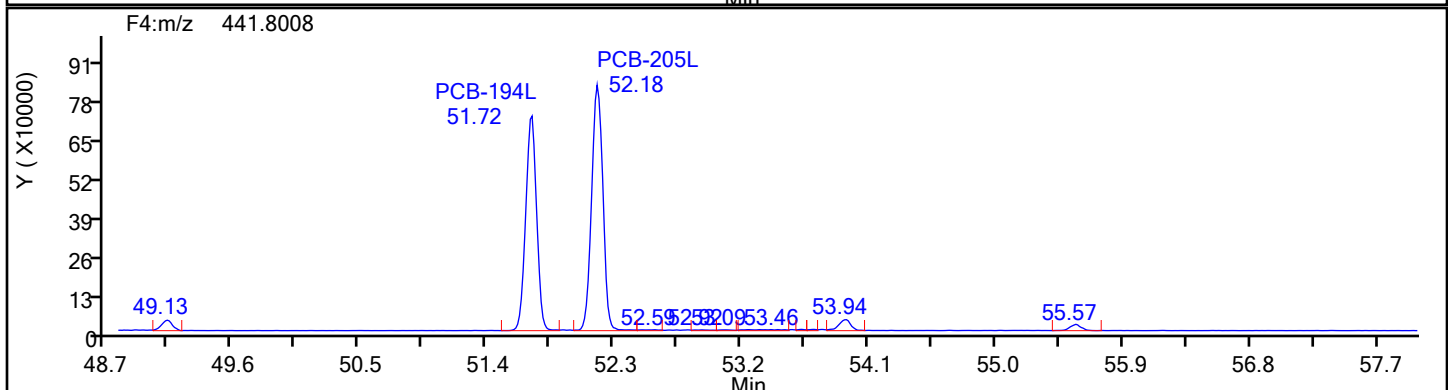
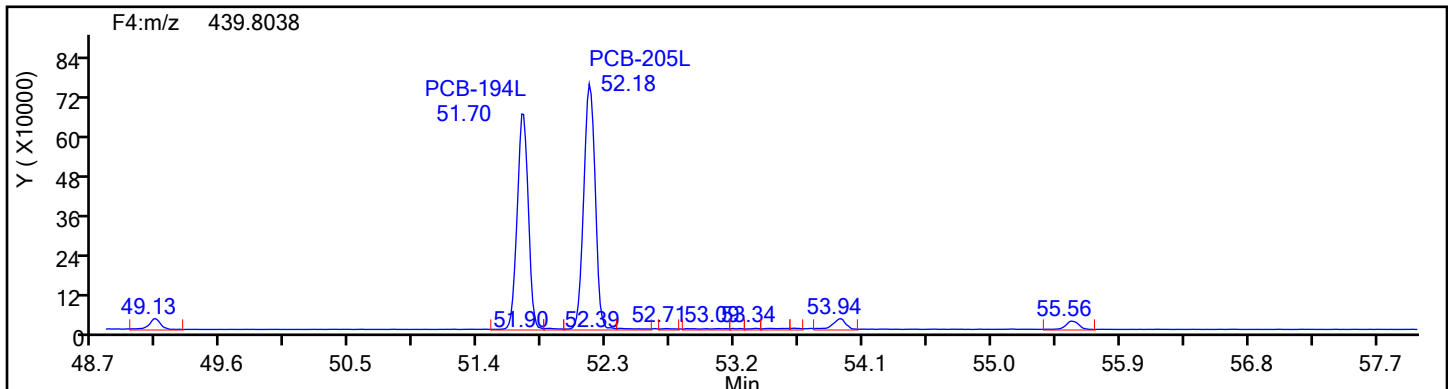
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

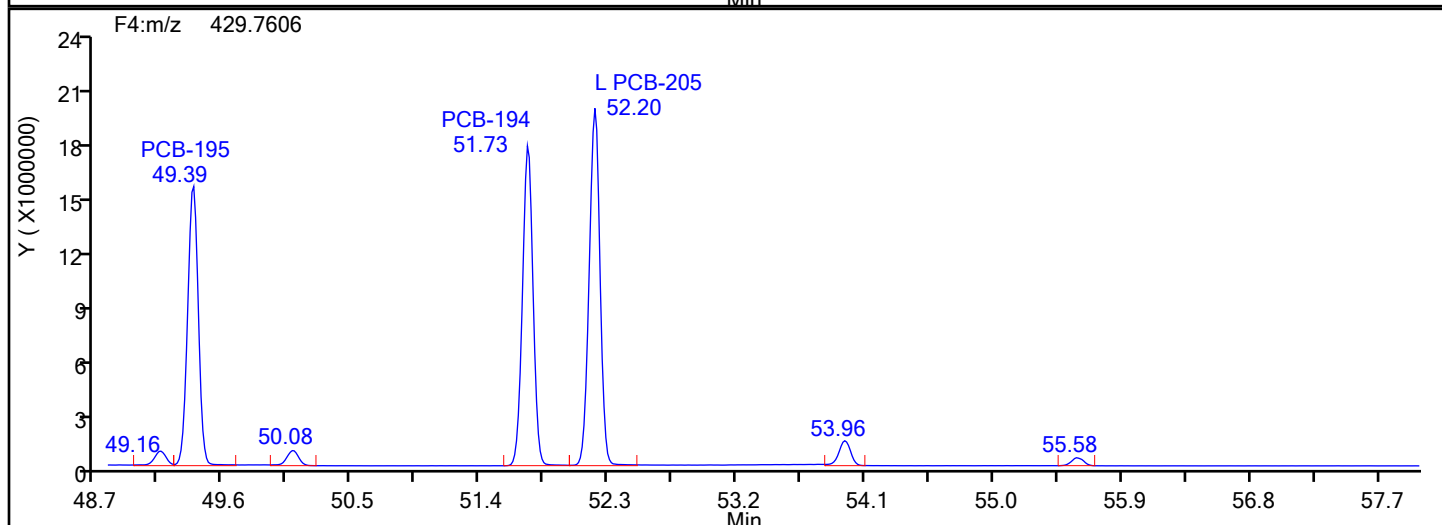
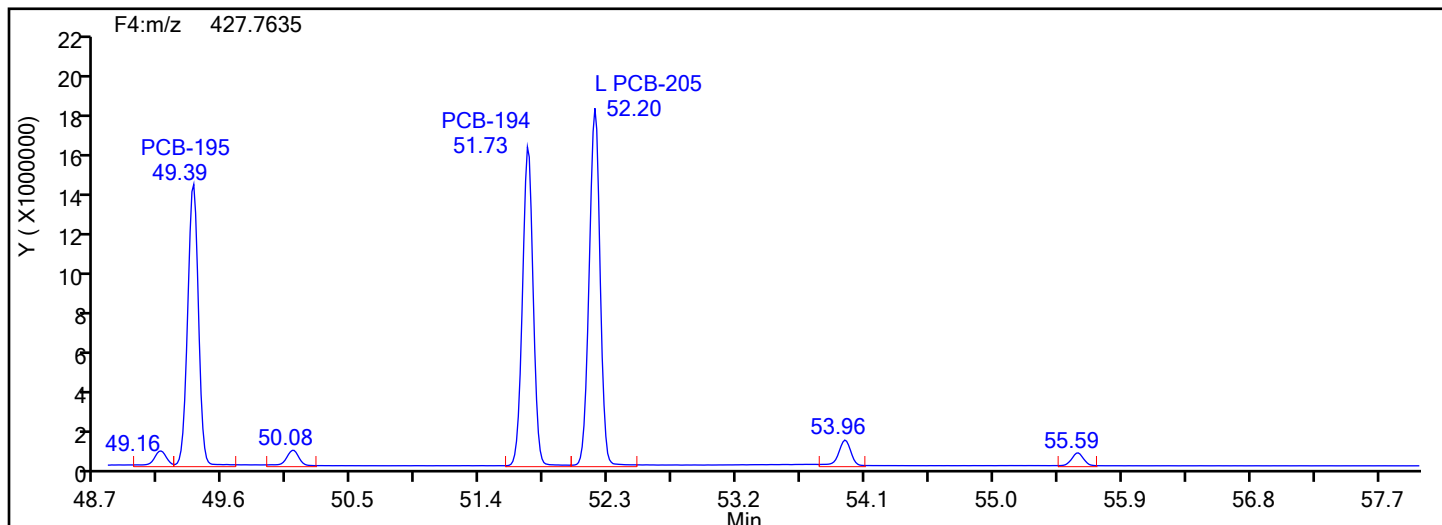
Worklist#: 87130

Sample Line#: 6

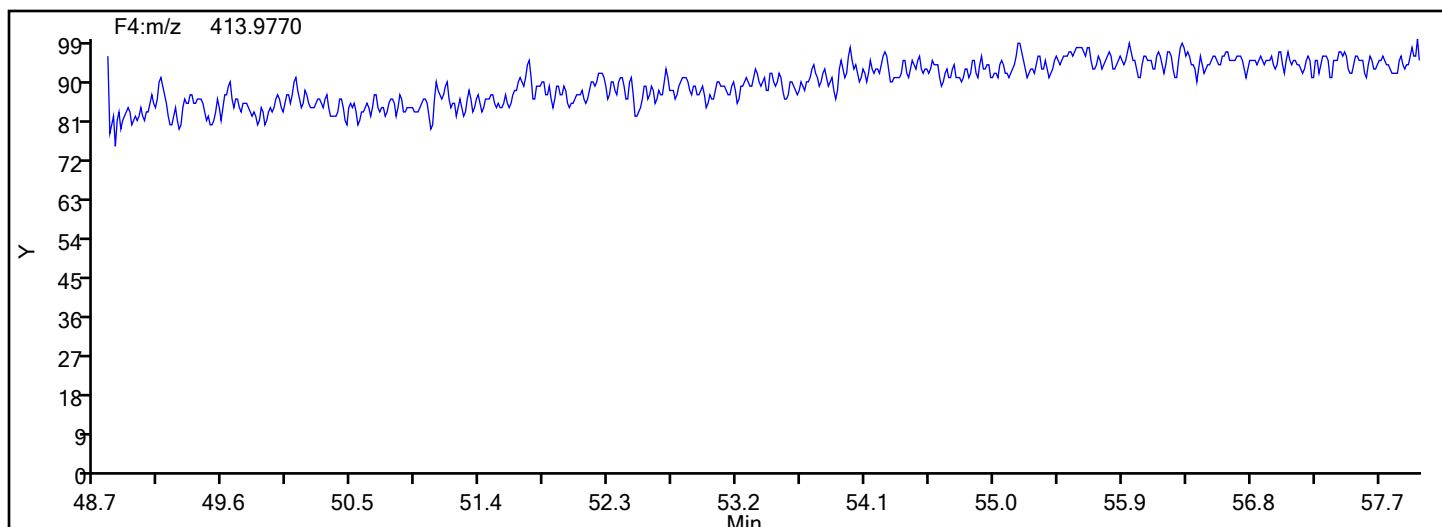
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

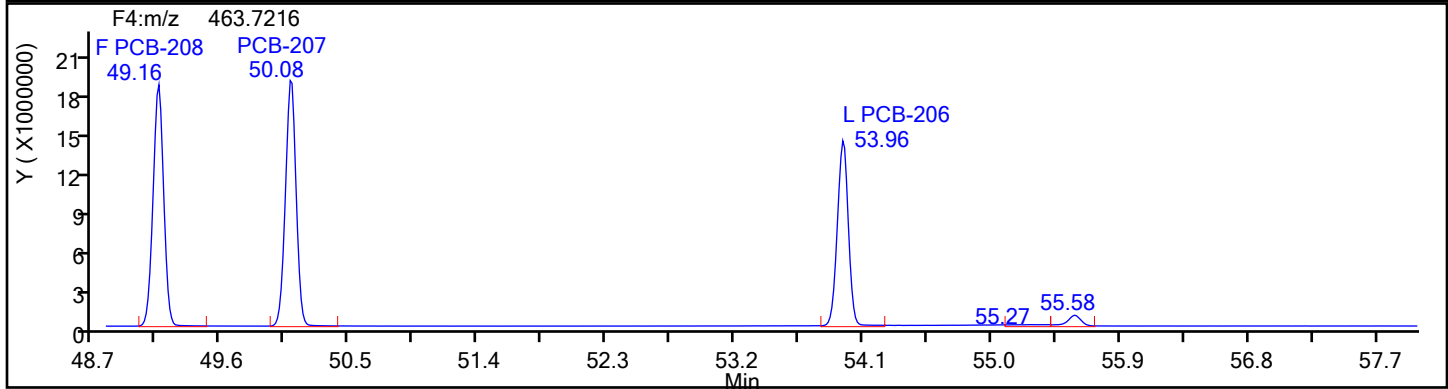
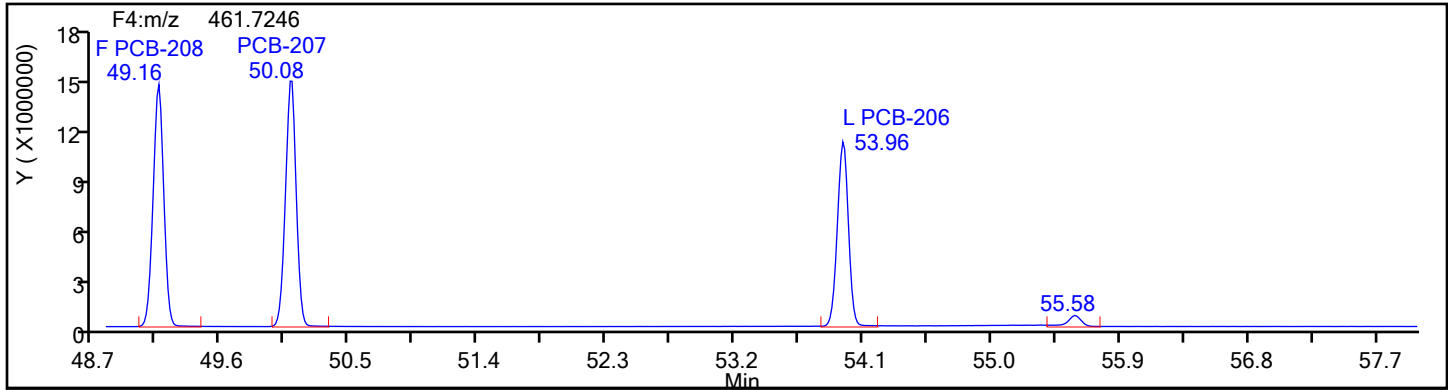


OcPCB F4 Lock Mass

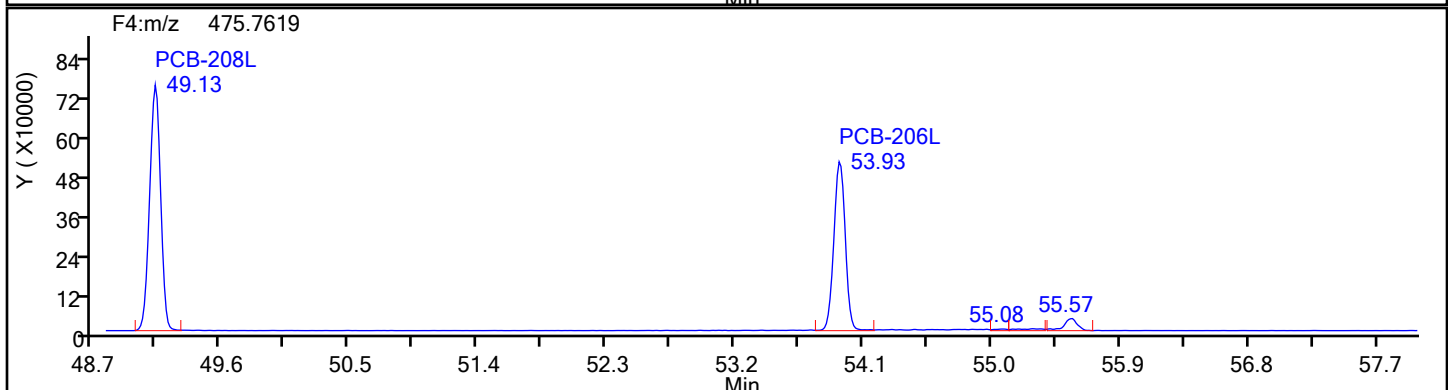
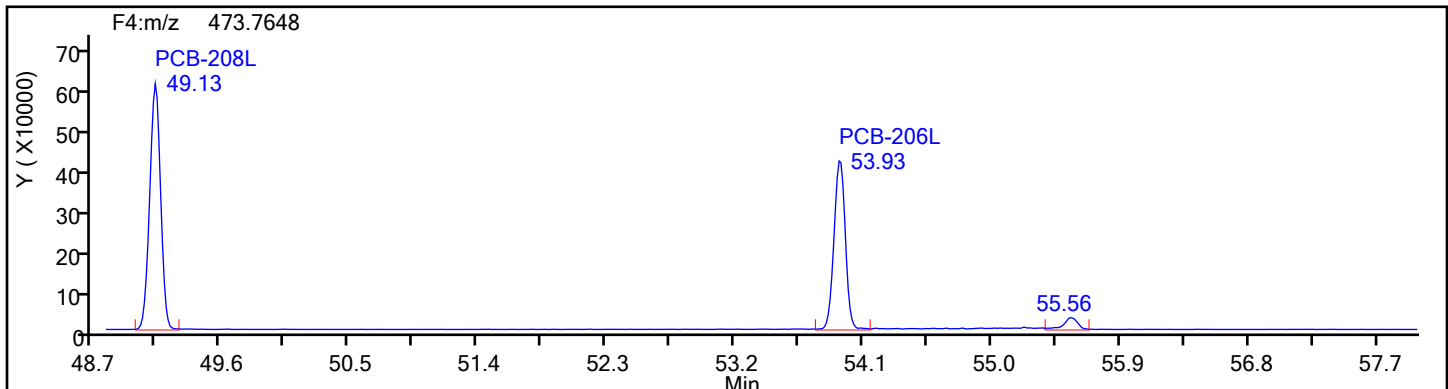


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

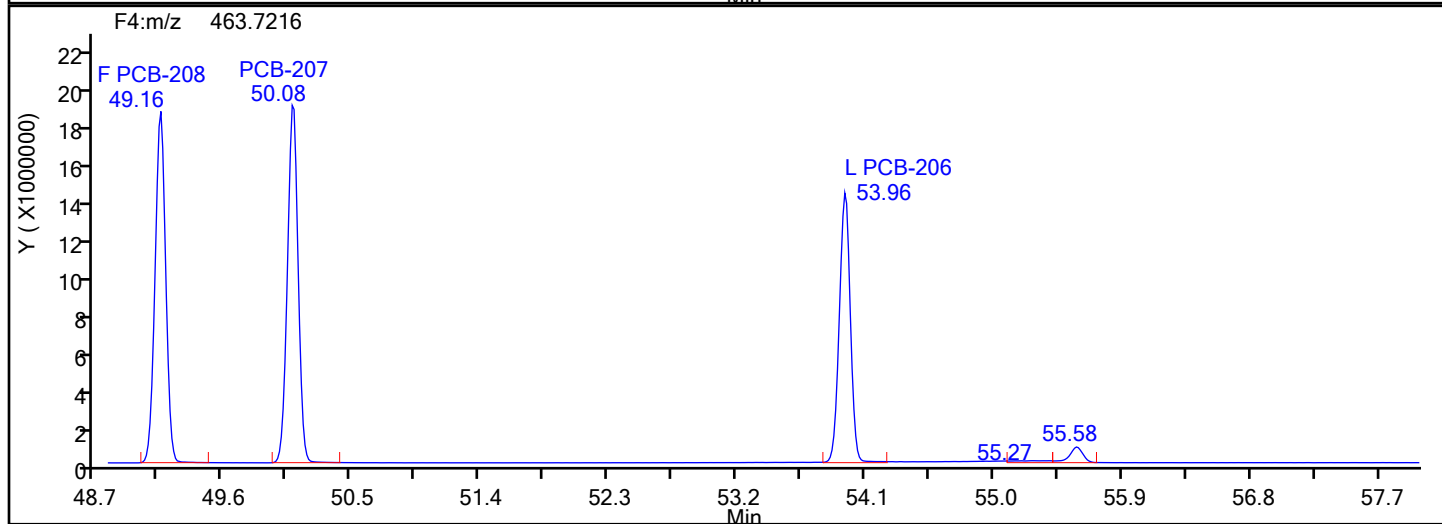
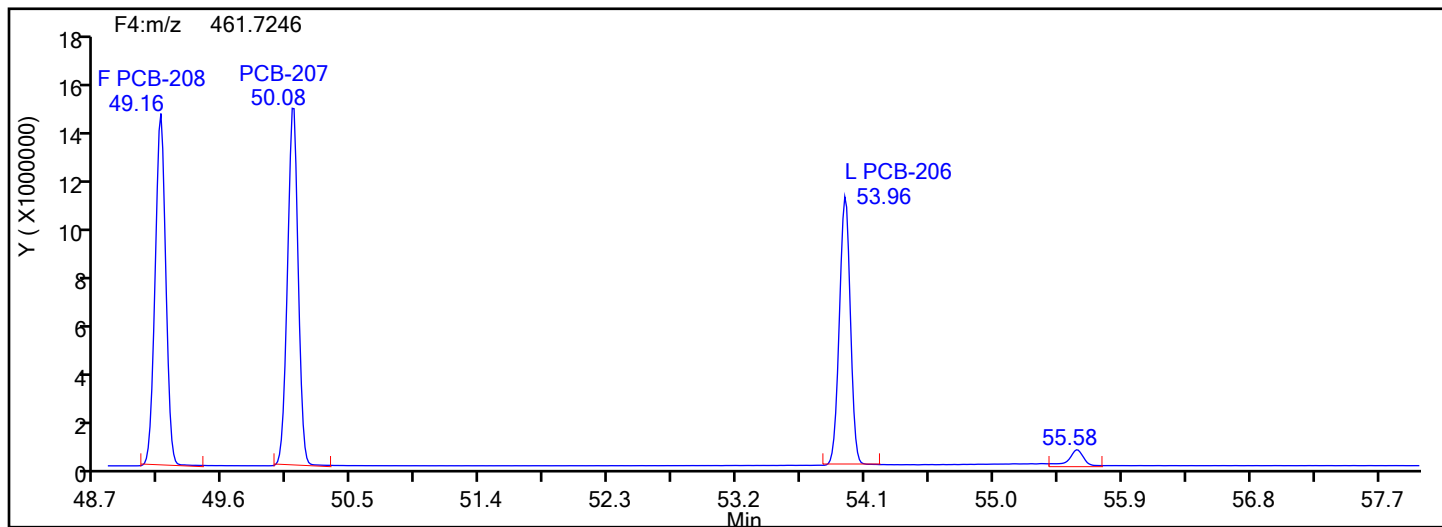
Worklist#: 87130

Sample Line#: 6

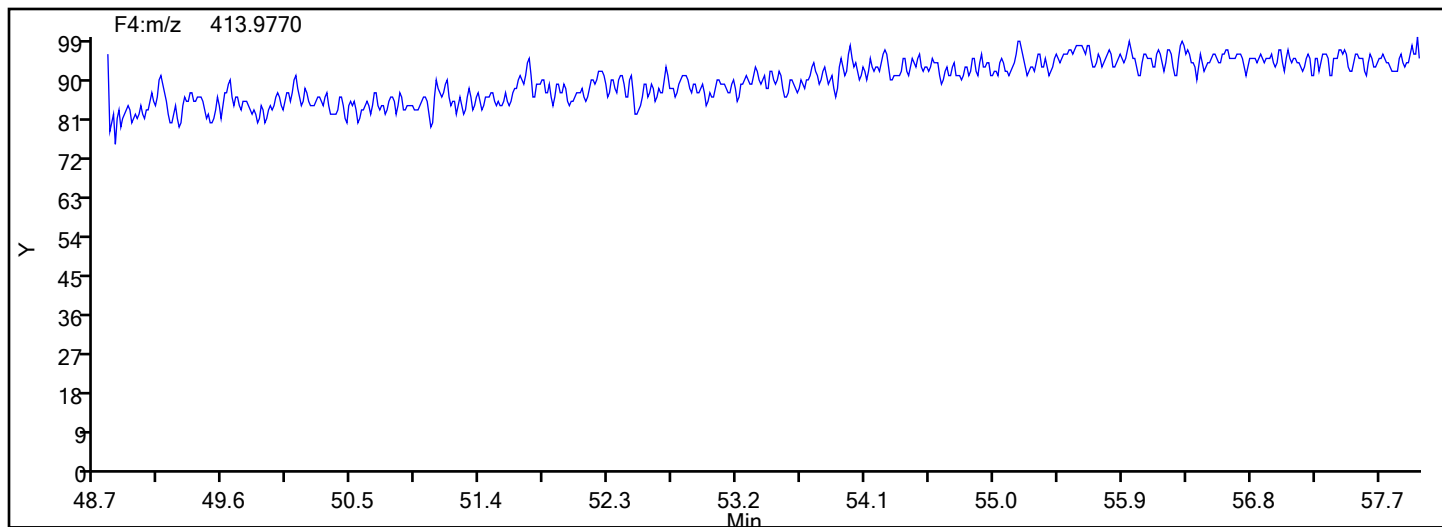
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

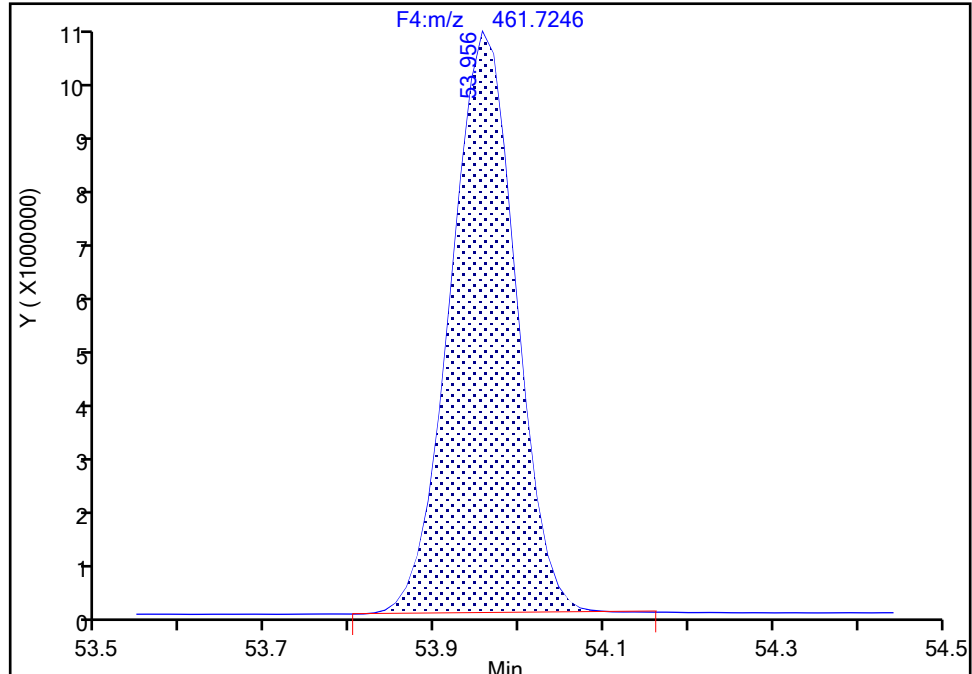
Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 1

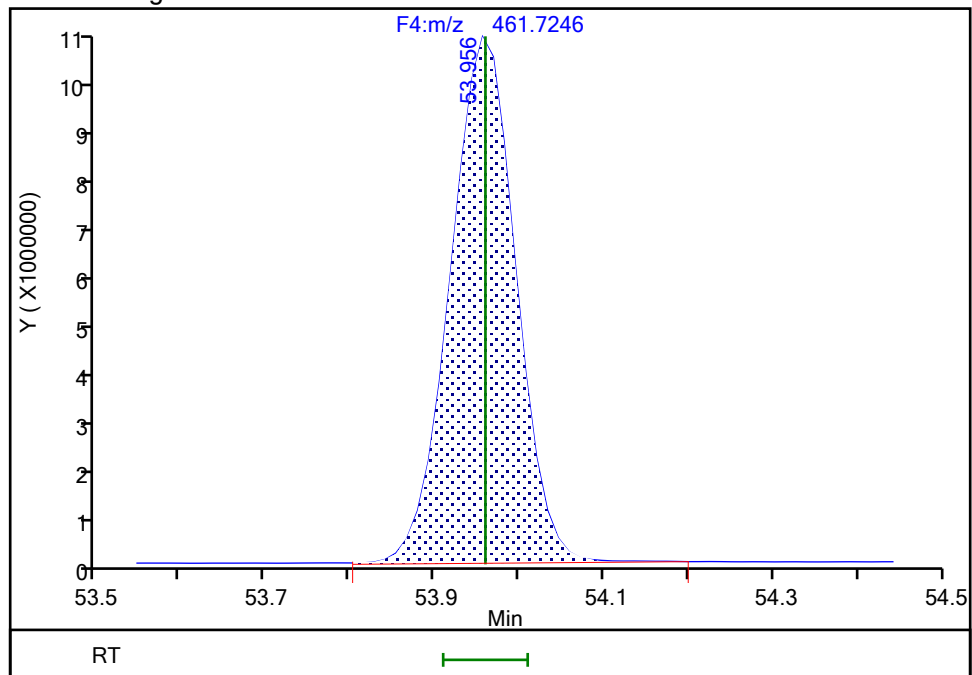
RT: 53.96
Area: 57730691
Amount: 1902.5597
Amount Units: pg/ul

Processing Integration Results



RT: 53.96
Area: 58039089
Amount: 1912.4054
Amount Units: pg/ul

Manual Integration Results



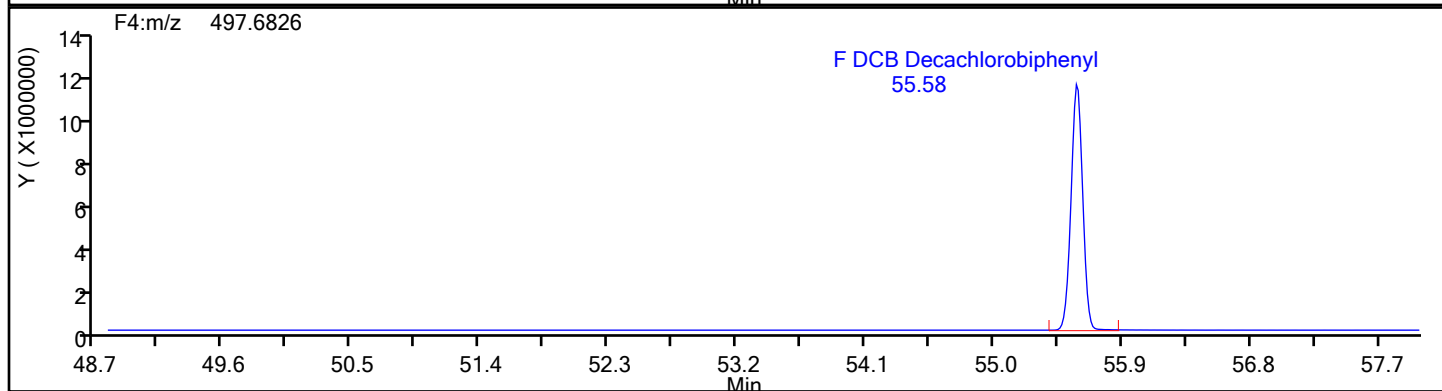
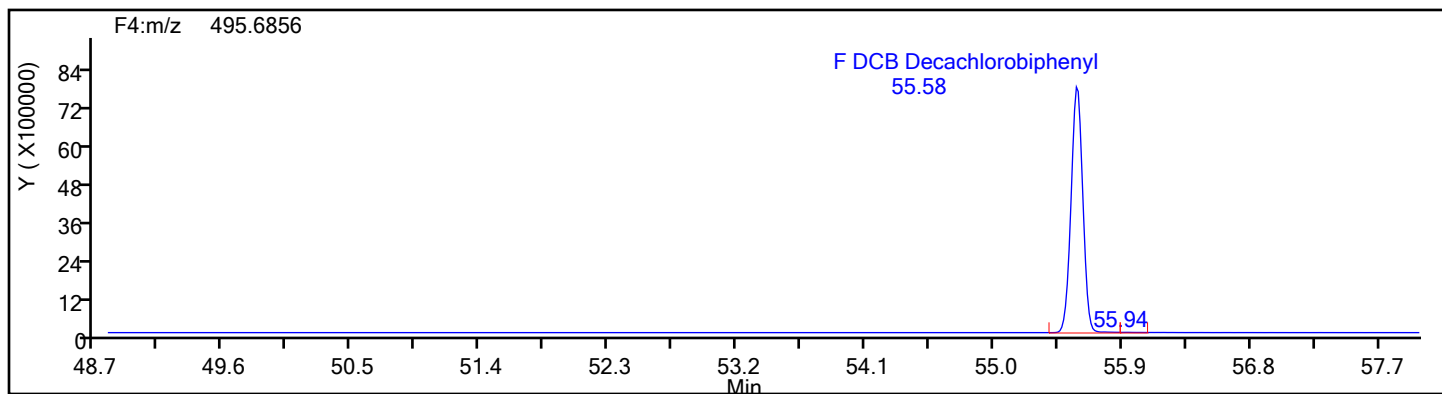
Reviewer: V4XA, 01-Jun-2024 03:12:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

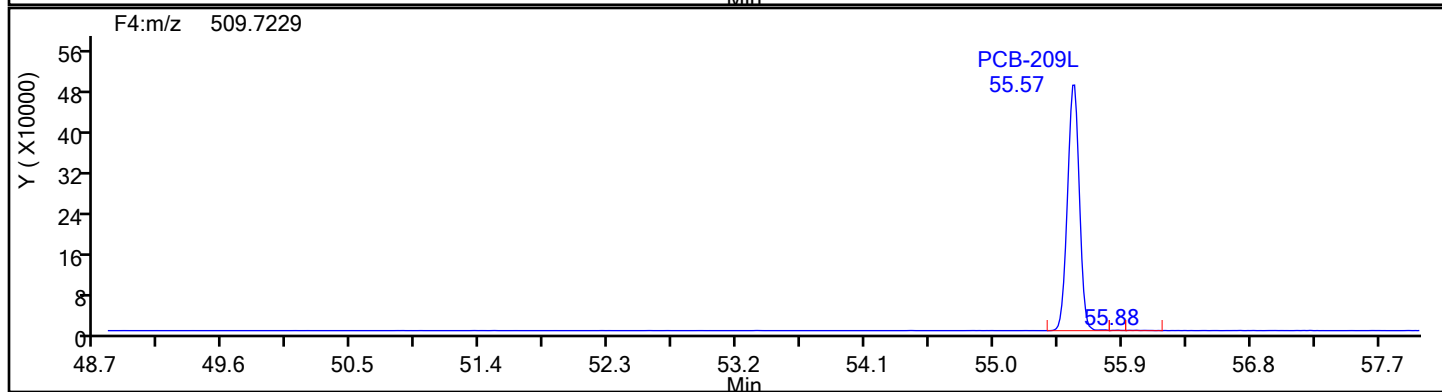
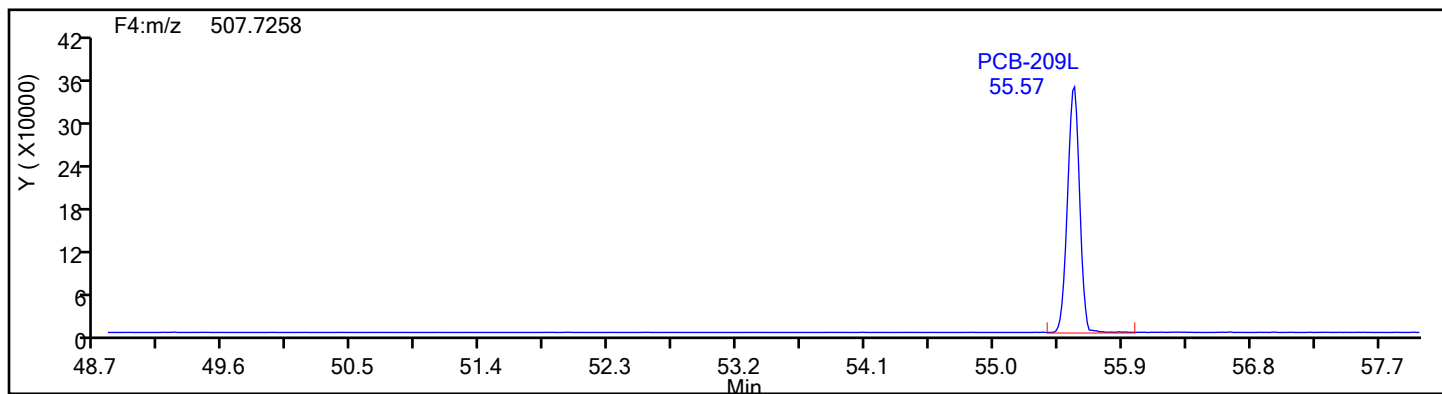
Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

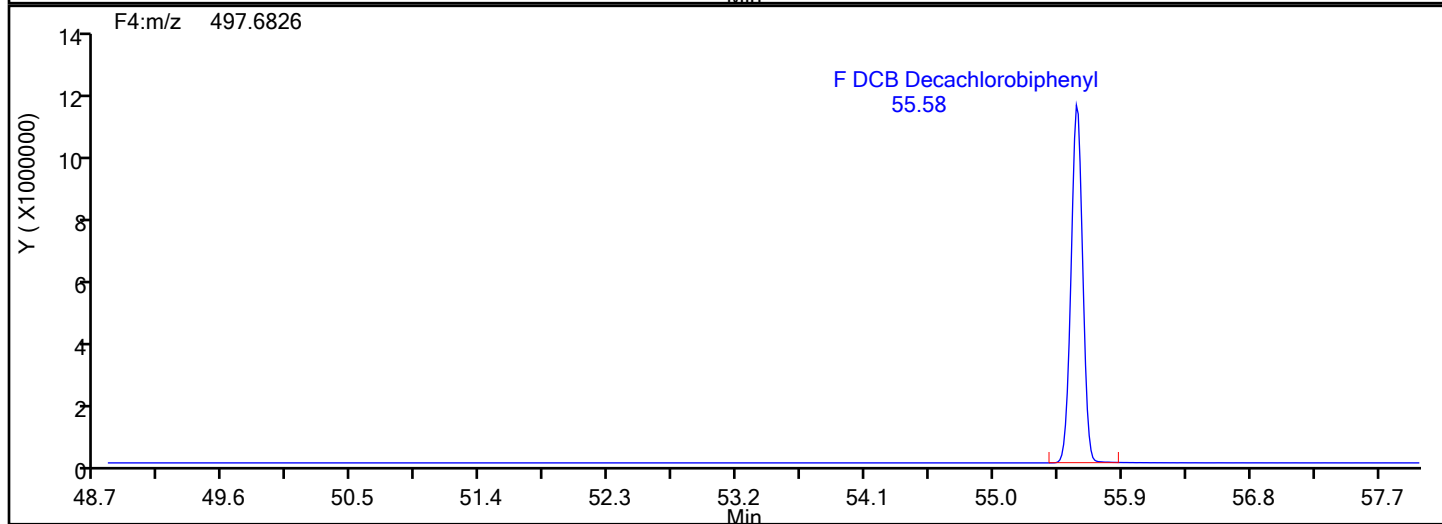
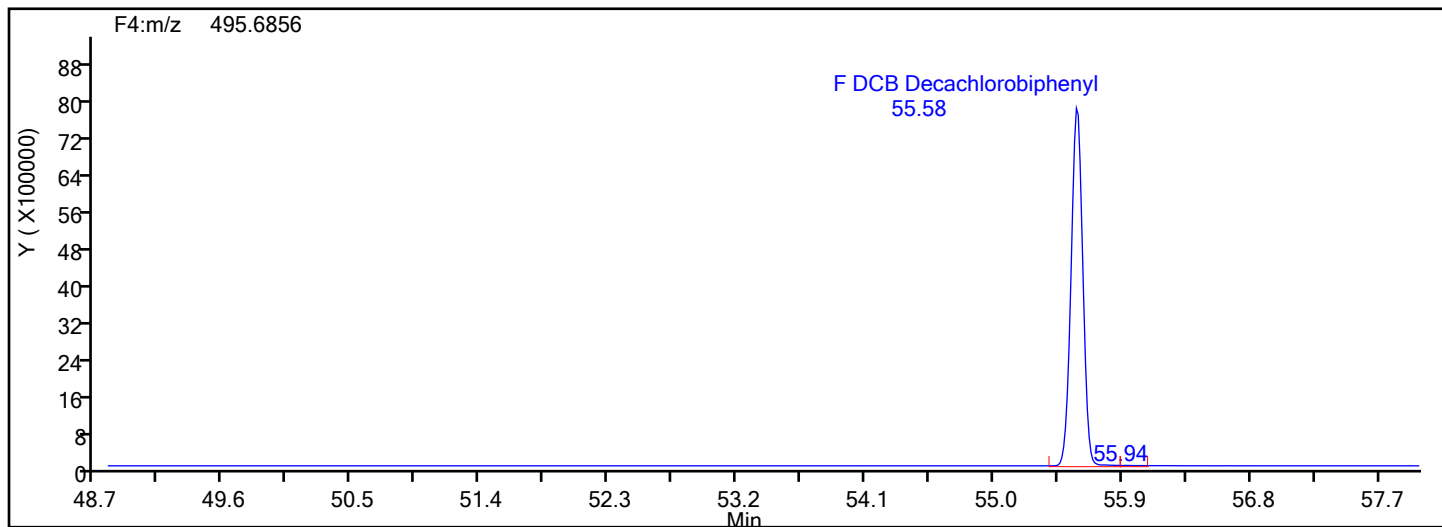
Worklist#: 87130

Sample Line#: 6

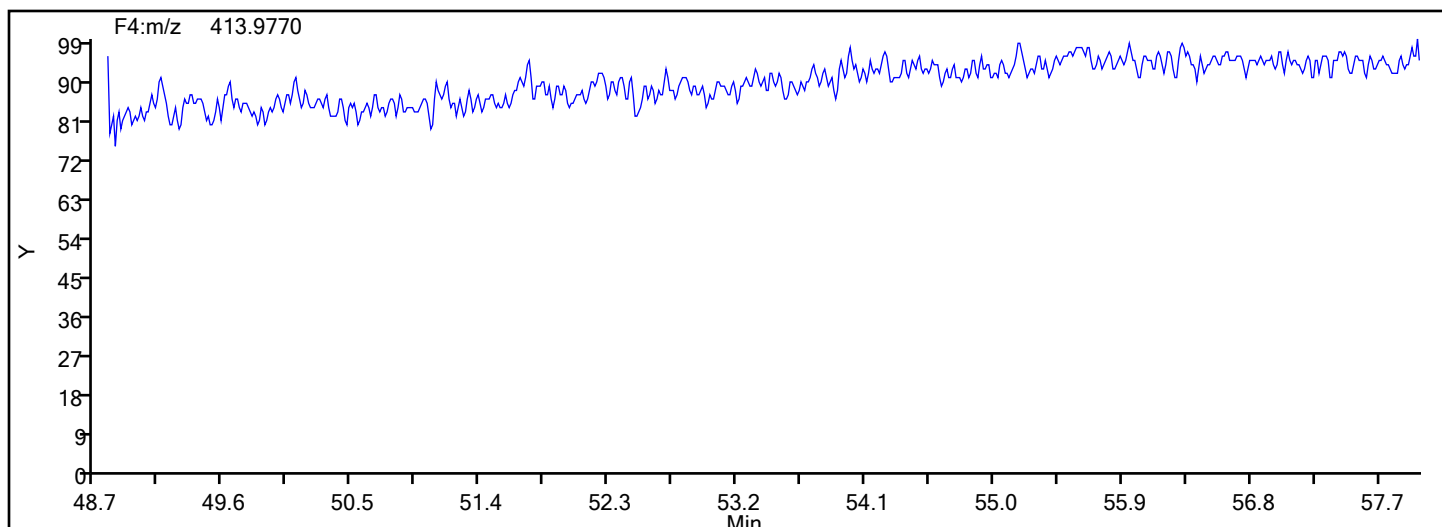
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Calibration

/ DCB Decachlorobiphenyl

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

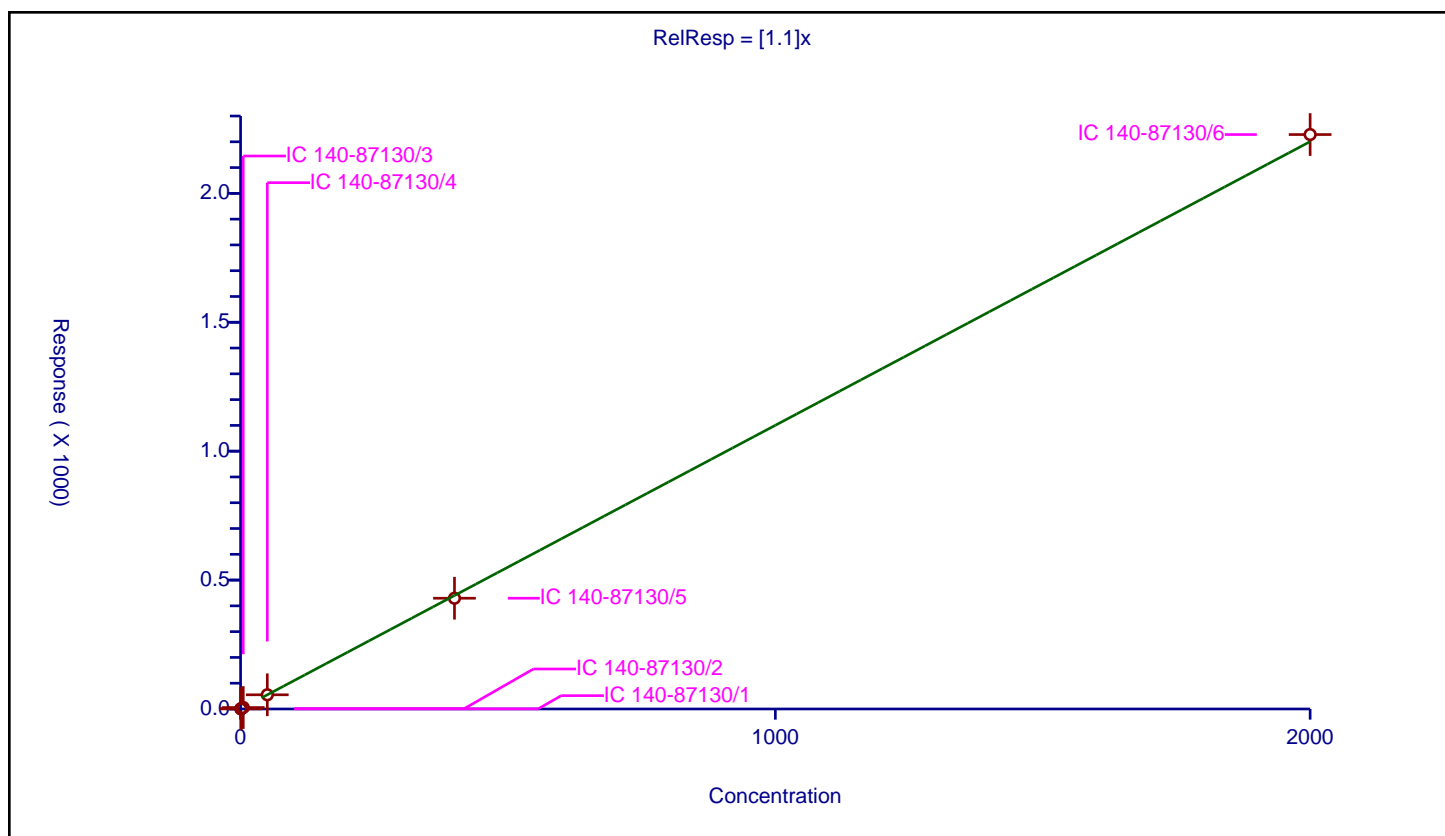
Curve Coefficients

Intercept: 0
 Slope: 1.1

Error Coefficients

Relative Standard Deviation: 1.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.548818	100.0	5278978.0	1.097637	Y
2	IC 140-87130/2	1.0	1.096209	100.0	4729024.0	1.096209	Y
3	IC 140-87130/3	5.0	5.590182	100.0	4889751.0	1.118036	Y
4	IC 140-87130/4	50.0	55.125547	100.0	4723291.0	1.102511	Y
5	IC 140-87130/5	400.0	429.572143	100.0	4867564.0	1.07393	Y
6	IC 140-87130/6	2000.0	2228.125224	100.0	4902169.0	1.114063	Y



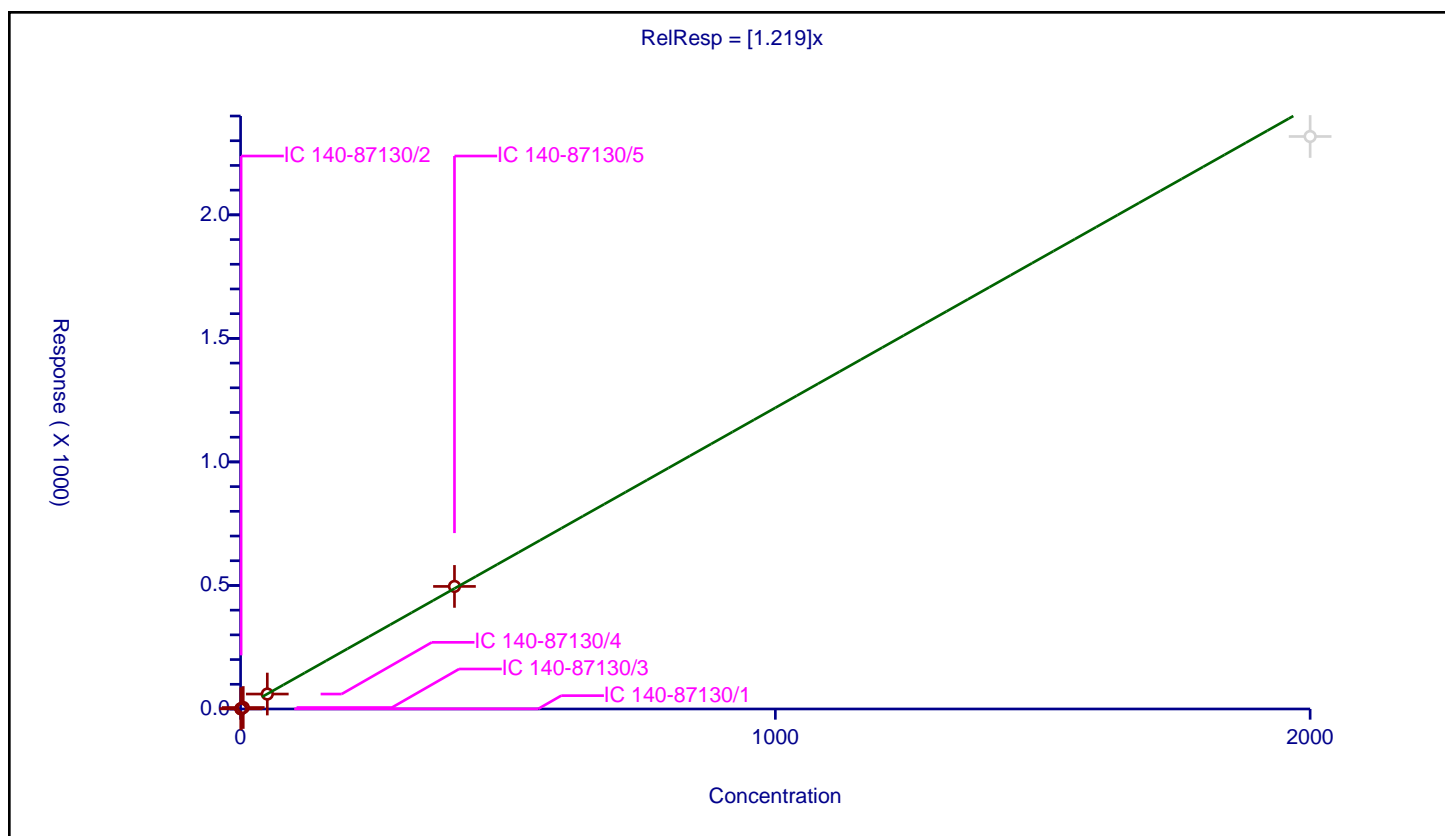
/ PCB-1

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.597017	100.0	14676977.0	1.194033	Y
2	IC 140-87130/2	1.0	1.250029	100.0	13411930.0	1.250029	Y
3	IC 140-87130/3	5.0	6.006275	100.0	13253788.0	1.201255	Y
4	IC 140-87130/4	50.0	60.496451	100.0	13654287.0	1.209929	Y
5	IC 140-87130/5	400.0	496.144941	100.0	13820437.0	1.240362	Y
6	IC 140-87130/6	2000.0	2317.124057	100.0	14103562.0	1.158562	N



Calibration

/ PCB-10

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

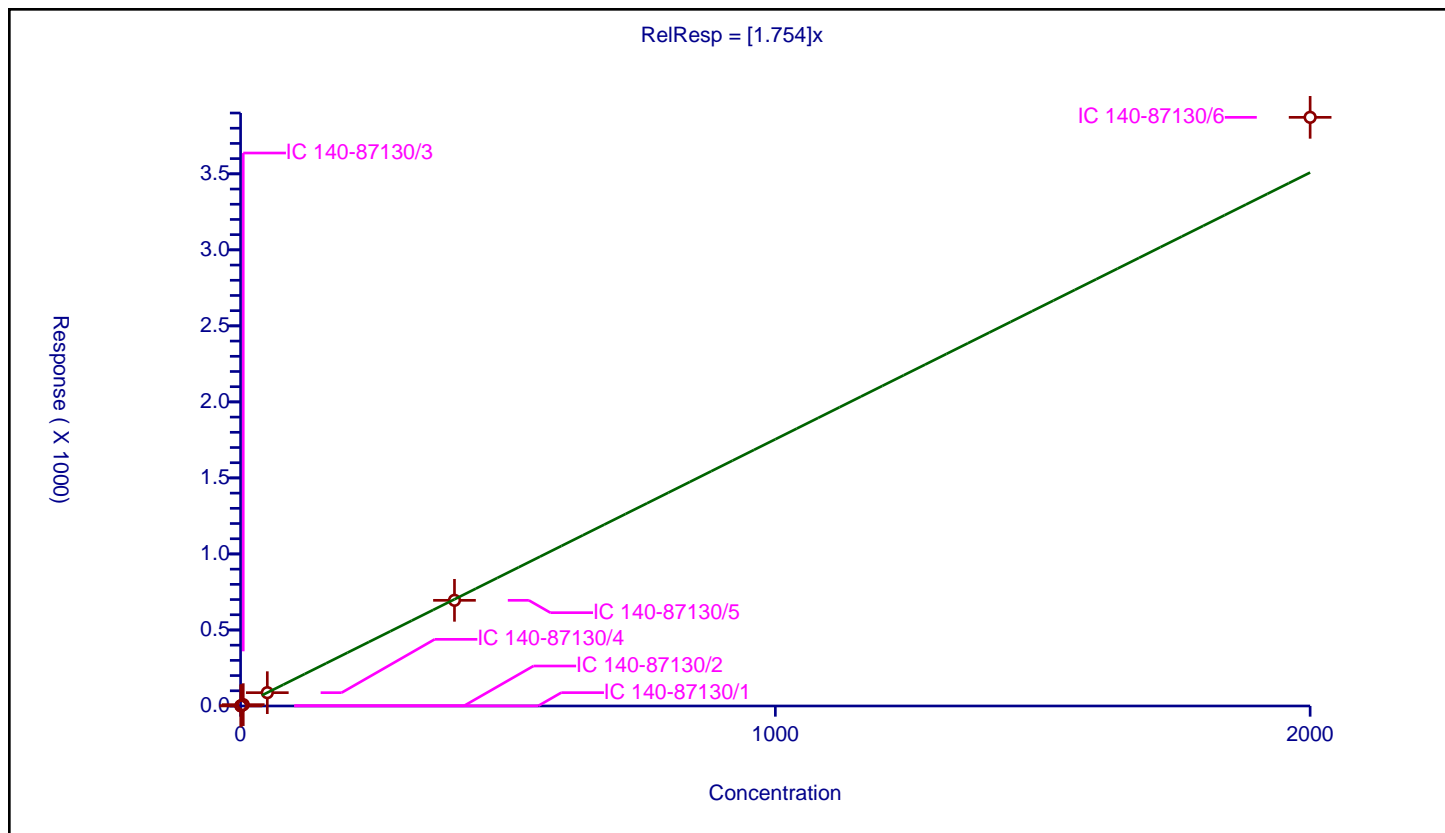
Curve Coefficients

Intercept: 0
 Slope: 1.754

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.821438	100.0	5904521.0	1.642877	Y
2	IC 140-87130/2	1.0	1.670823	100.0	5442766.0	1.670823	Y
3	IC 140-87130/3	5.0	8.937908	100.0	5279032.0	1.787582	Y
4	IC 140-87130/4	50.0	87.549993	100.0	5474214.0	1.751	Y
5	IC 140-87130/5	400.0	695.041767	100.0	5561618.0	1.737604	Y
6	IC 140-87130/6	2000.0	3871.627139	100.0	5672202.0	1.935814	Y



Calibration

/ PCB-100

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

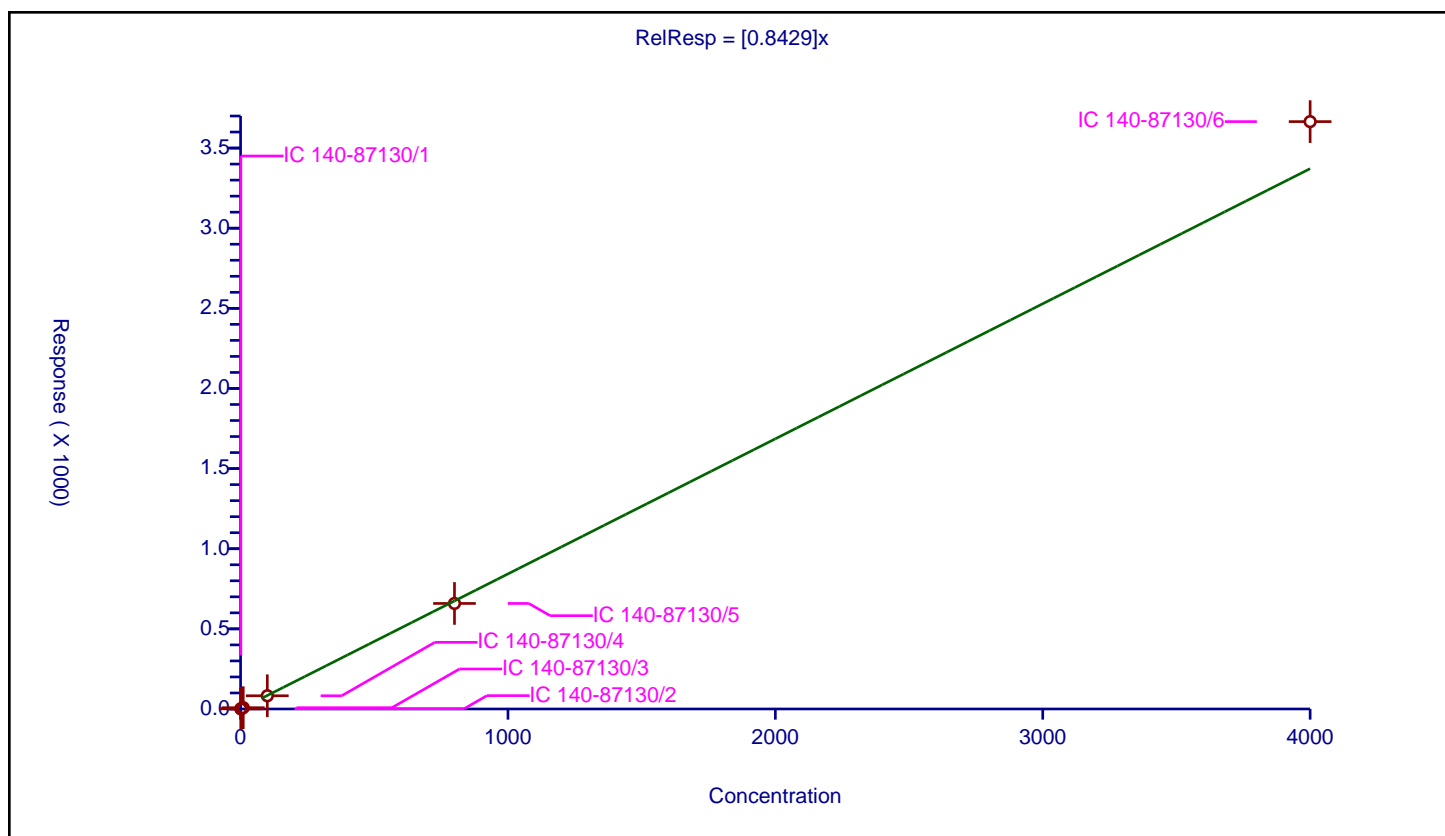
Curve Coefficients

Intercept: 0
 Slope: 0.8429

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.852714	100.0	6938320.0	0.852714	Y
2	IC 140-87130/2	2.0	1.667508	100.0	6240748.0	0.833754	Y
3	IC 140-87130/3	10.0	8.061721	100.0	6307301.0	0.806172	Y
4	IC 140-87130/4	100.0	82.513091	100.0	6455349.0	0.825131	Y
5	IC 140-87130/5	800.0	658.540756	100.0	6672003.0	0.823176	Y
6	IC 140-87130/6	4000.0	3665.032714	100.0	6975966.0	0.916258	Y



Calibration

/ PCB-101

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

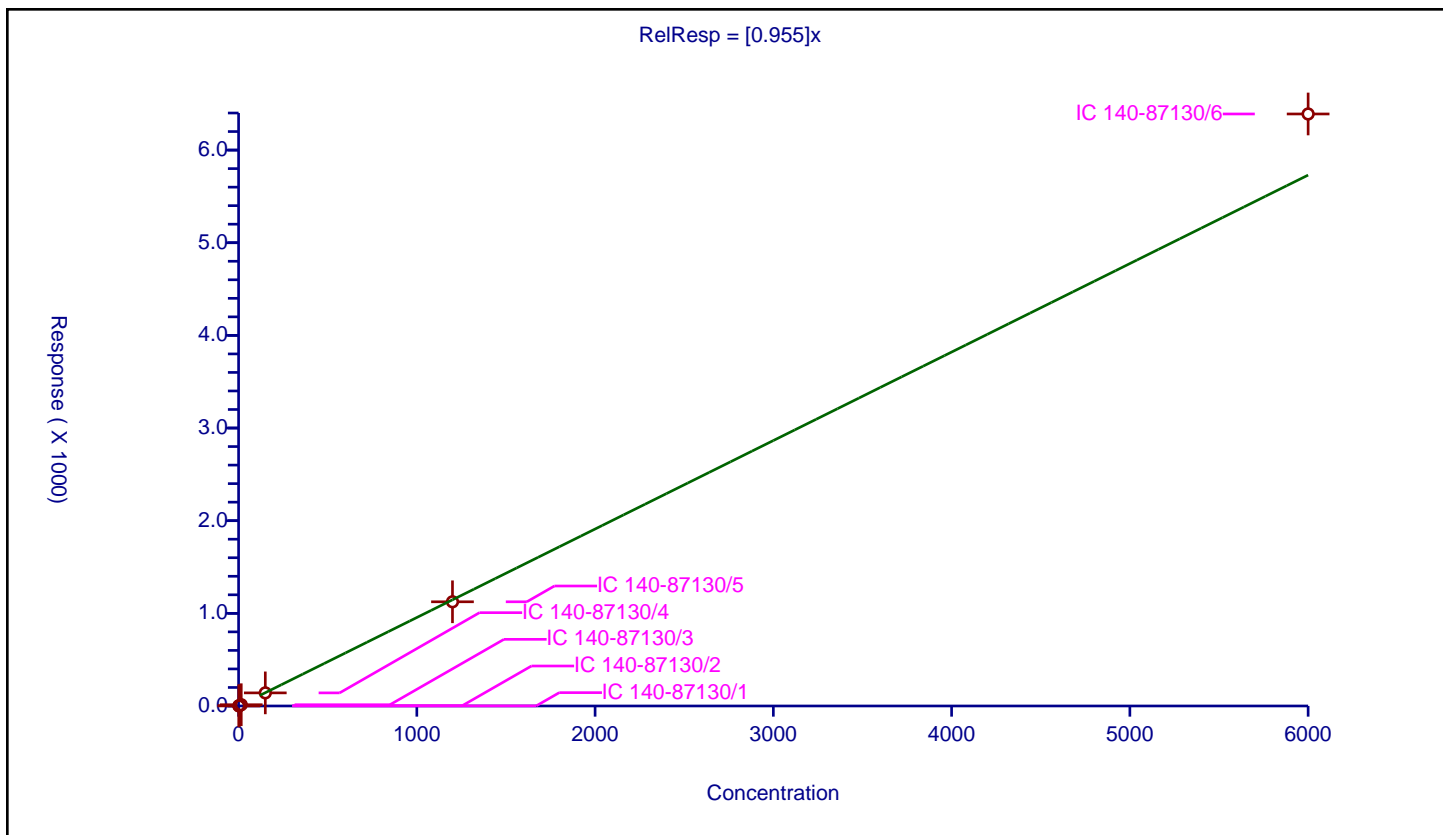
Curve Coefficients

Intercept: 0
 Slope: 0.955

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.423053	100.0	6938320.0	0.948702	Y
2	IC 140-87130/2	3.0	2.801892	100.0	6240748.0	0.933964	Y
3	IC 140-87130/3	15.0	13.539722	100.0	6307301.0	0.902648	Y
4	IC 140-87130/4	150.0	141.38193	100.0	6455349.0	0.942546	Y
5	IC 140-87130/5	1200.0	1124.566761	100.0	6672003.0	0.937139	Y
6	IC 140-87130/6	6000.0	6389.746882	100.0	6975966.0	1.064958	Y



Calibration

/ PCB-102

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

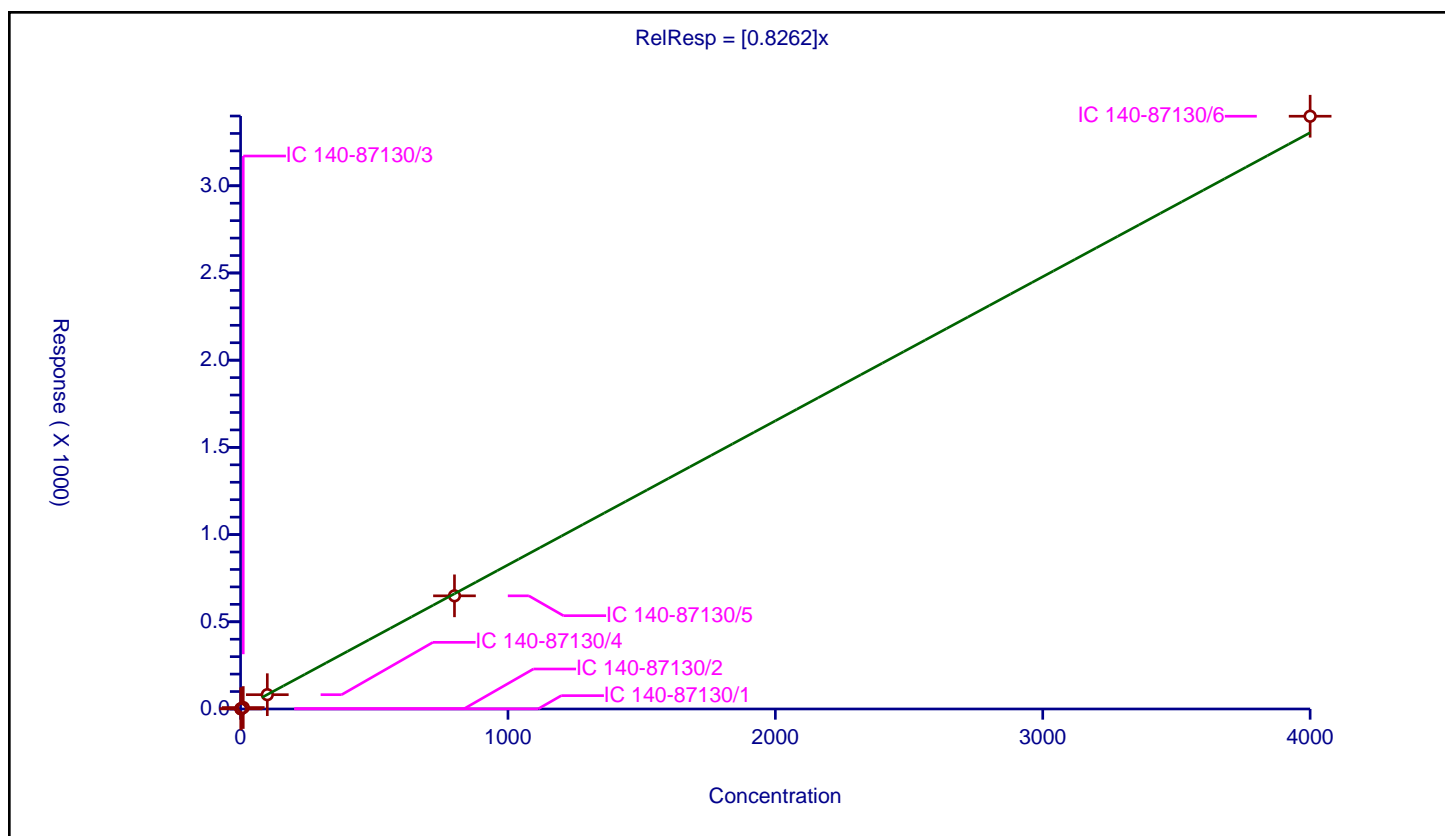
Curve Coefficients

Intercept: 0
 Slope: 0.8262

Error Coefficients

Relative Standard Deviation: 1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.825603	100.0	6938320.0	0.825603	Y
2	IC 140-87130/2	2.0	1.631167	100.0	6240748.0	0.815583	Y
3	IC 140-87130/3	10.0	8.347532	100.0	6307301.0	0.834753	Y
4	IC 140-87130/4	100.0	82.021111	100.0	6455349.0	0.820211	Y
5	IC 140-87130/5	800.0	648.883896	100.0	6672003.0	0.811105	Y
6	IC 140-87130/6	4000.0	3398.773116	100.0	6975966.0	0.849693	Y



Calibration

/ PCB-103

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

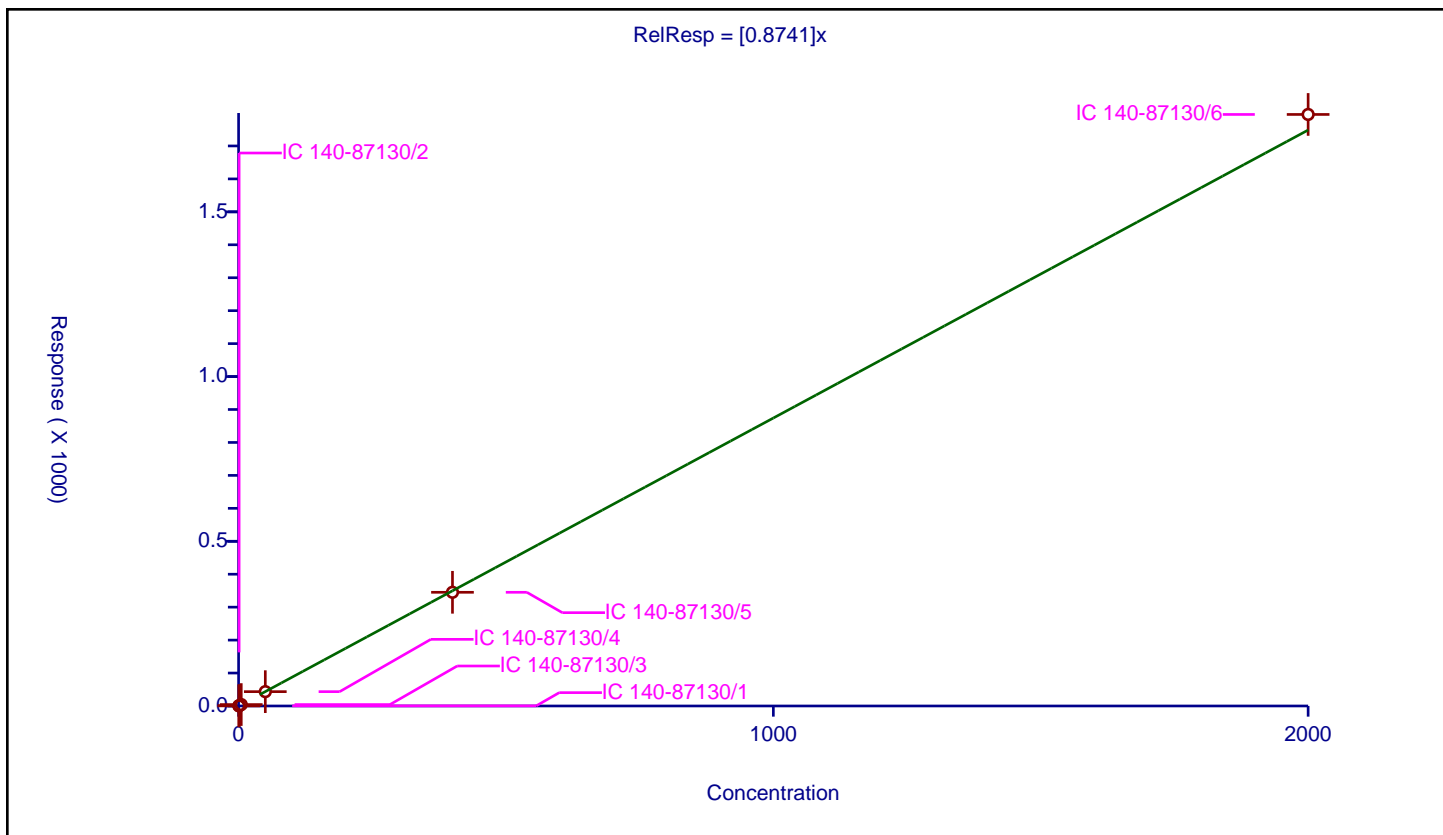
Curve Coefficients

Intercept: 0
 Slope: 0.8741

Error Coefficients

Relative Standard Deviation: 1.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.436777	100.0	6938320.0	0.873554	Y
2	IC 140-87130/2	1.0	0.875055	100.0	6240748.0	0.875055	Y
3	IC 140-87130/3	5.0	4.323926	100.0	6307301.0	0.864785	Y
4	IC 140-87130/4	50.0	43.540016	100.0	6455349.0	0.8708	Y
5	IC 140-87130/5	400.0	345.117681	100.0	6672003.0	0.862794	Y
6	IC 140-87130/6	2000.0	1795.657146	100.0	6975966.0	0.897829	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

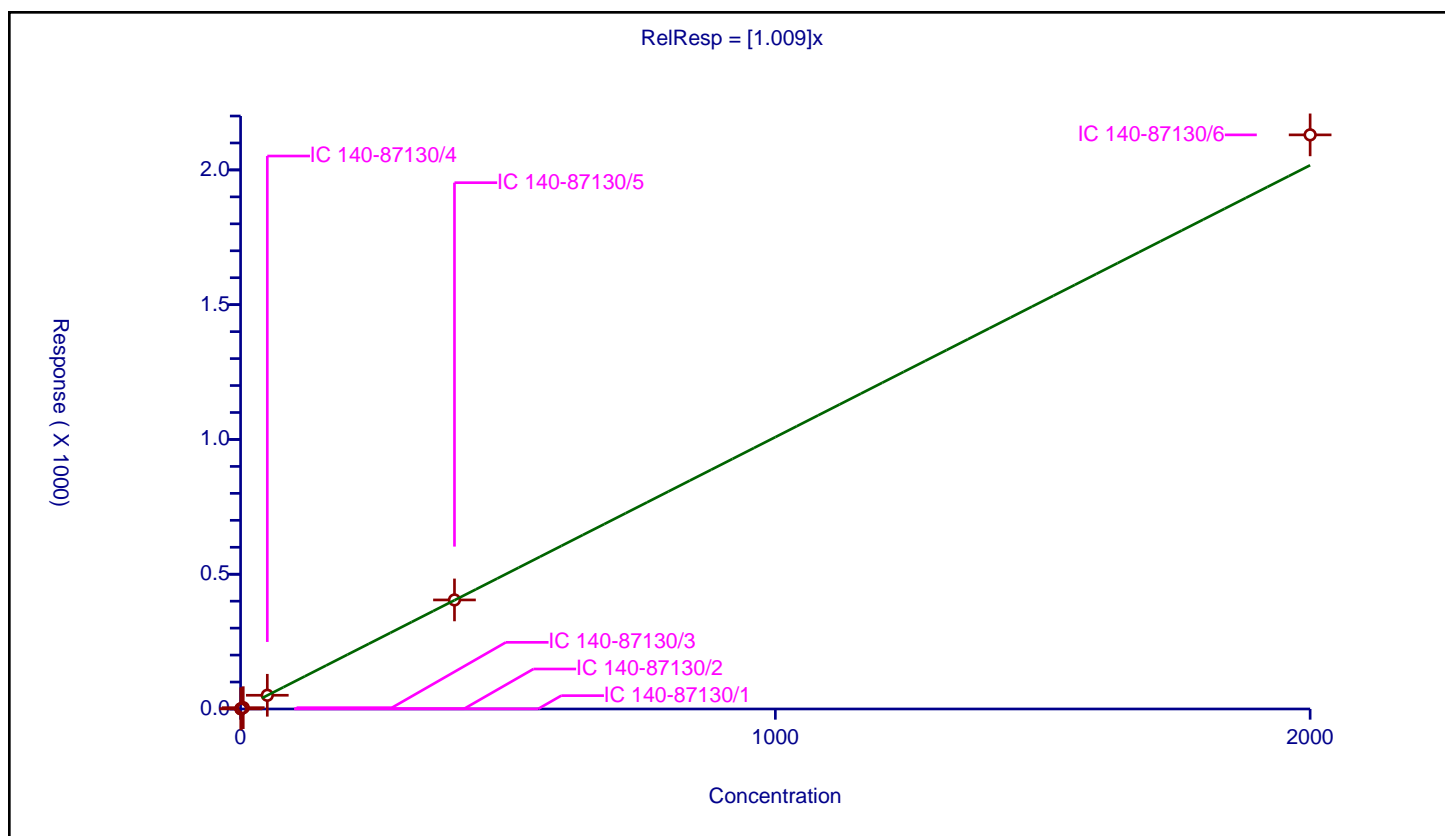
Curve Coefficients

Intercept: 0
Slope: 1.009

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.500899	100.0	6938320.0	1.001799	Y
2	IC 140-87130/2	1.0	0.985907	100.0	6240748.0	0.985907	Y
3	IC 140-87130/3	5.0	4.852313	100.0	6307301.0	0.970463	Y
4	IC 140-87130/4	50.0	50.879217	100.0	6455349.0	1.017584	Y
5	IC 140-87130/5	400.0	404.55307	100.0	6672003.0	1.011383	Y
6	IC 140-87130/6	2000.0	2130.089396	100.0	6975966.0	1.065045	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

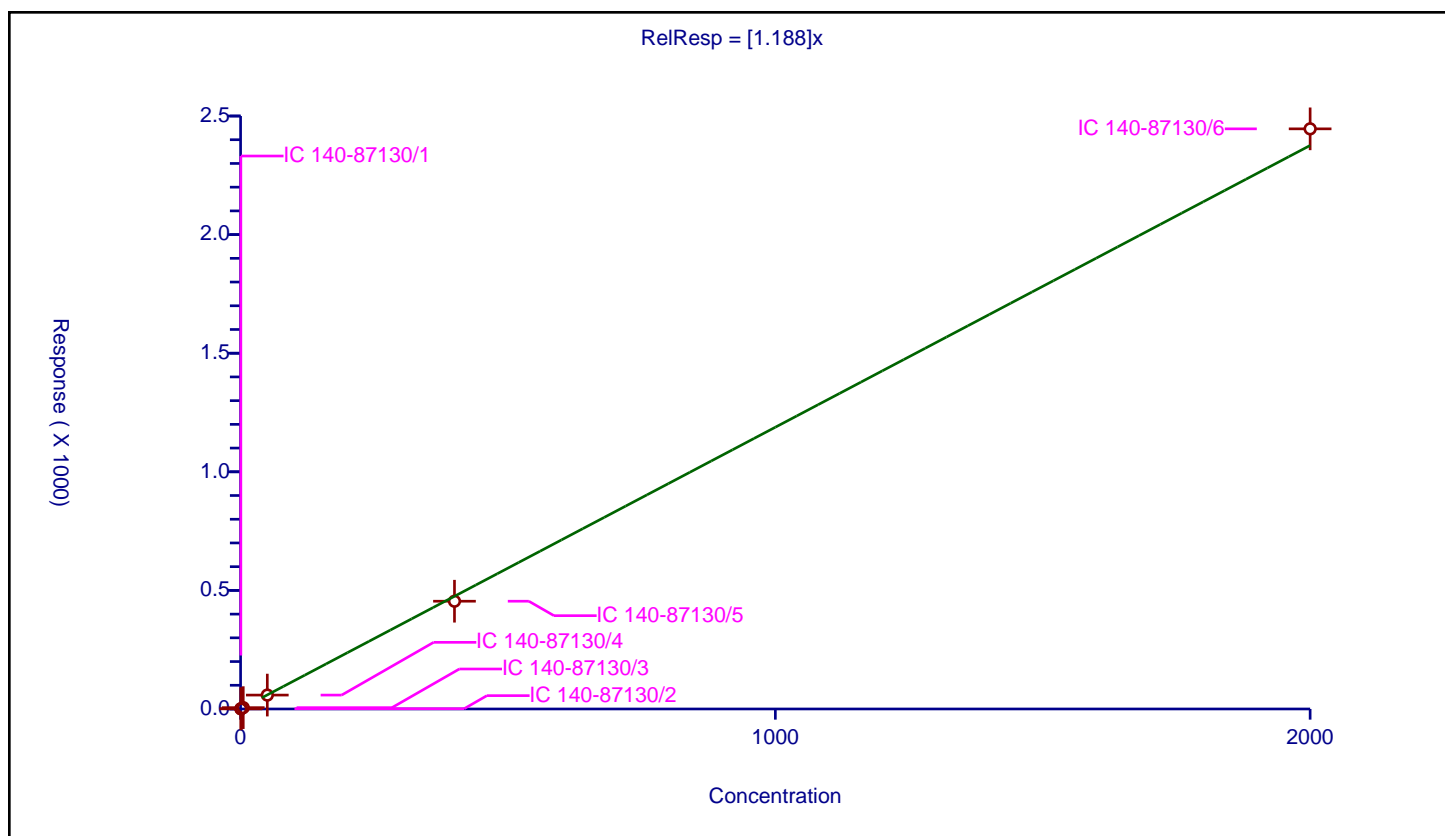
Curve Coefficients

Intercept: 0
Slope: 1.188

Error Coefficients

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.643369	100.0	10177357.0	1.286739	Y
2	IC 140-87130/2	1.0	1.18048	100.0	9101468.0	1.18048	Y
3	IC 140-87130/3	5.0	5.649296	100.0	9087875.0	1.129859	Y
4	IC 140-87130/4	50.0	58.580131	100.0	9433900.0	1.171603	Y
5	IC 140-87130/5	400.0	454.320655	100.0	10096861.0	1.135802	Y
6	IC 140-87130/6	2000.0	2445.973658	100.0	10771838.0	1.222987	Y



Calibration

/ PCB-106

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

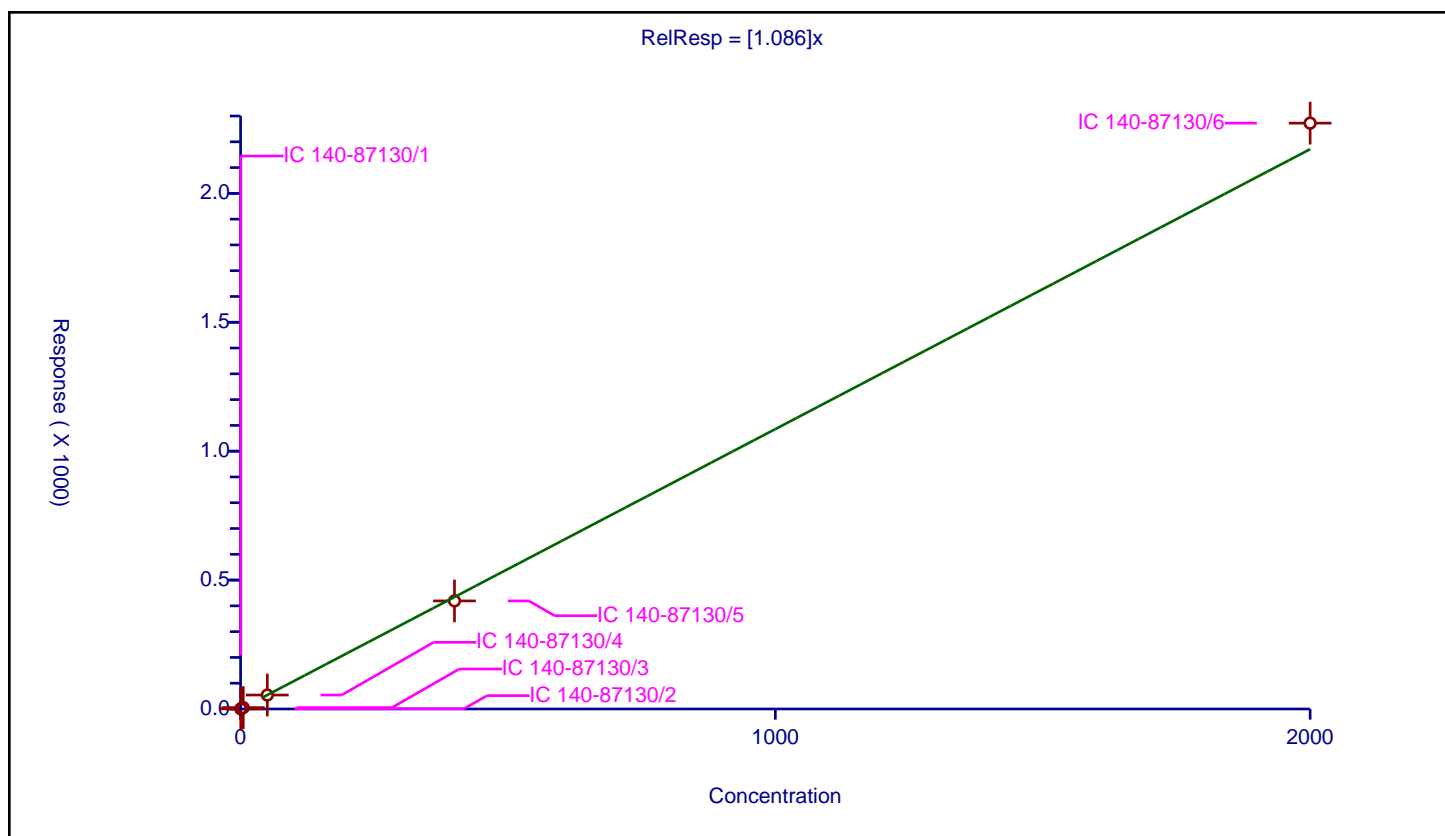
Curve Coefficients

Intercept: 0
 Slope: 1.086

Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.552515	100.0	10371480.0	1.10503	Y
2	IC 140-87130/2	1.0	1.066747	100.0	9073751.0	1.066747	Y
3	IC 140-87130/3	5.0	5.379468	100.0	9321962.0	1.075894	Y
4	IC 140-87130/4	50.0	54.09954	100.0	9501201.0	1.081991	Y
5	IC 140-87130/5	400.0	419.198391	100.0	10377703.0	1.047996	Y
6	IC 140-87130/6	2000.0	2272.377735	100.0	11406816.0	1.136189	Y



Calibration

/ PCB-107

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

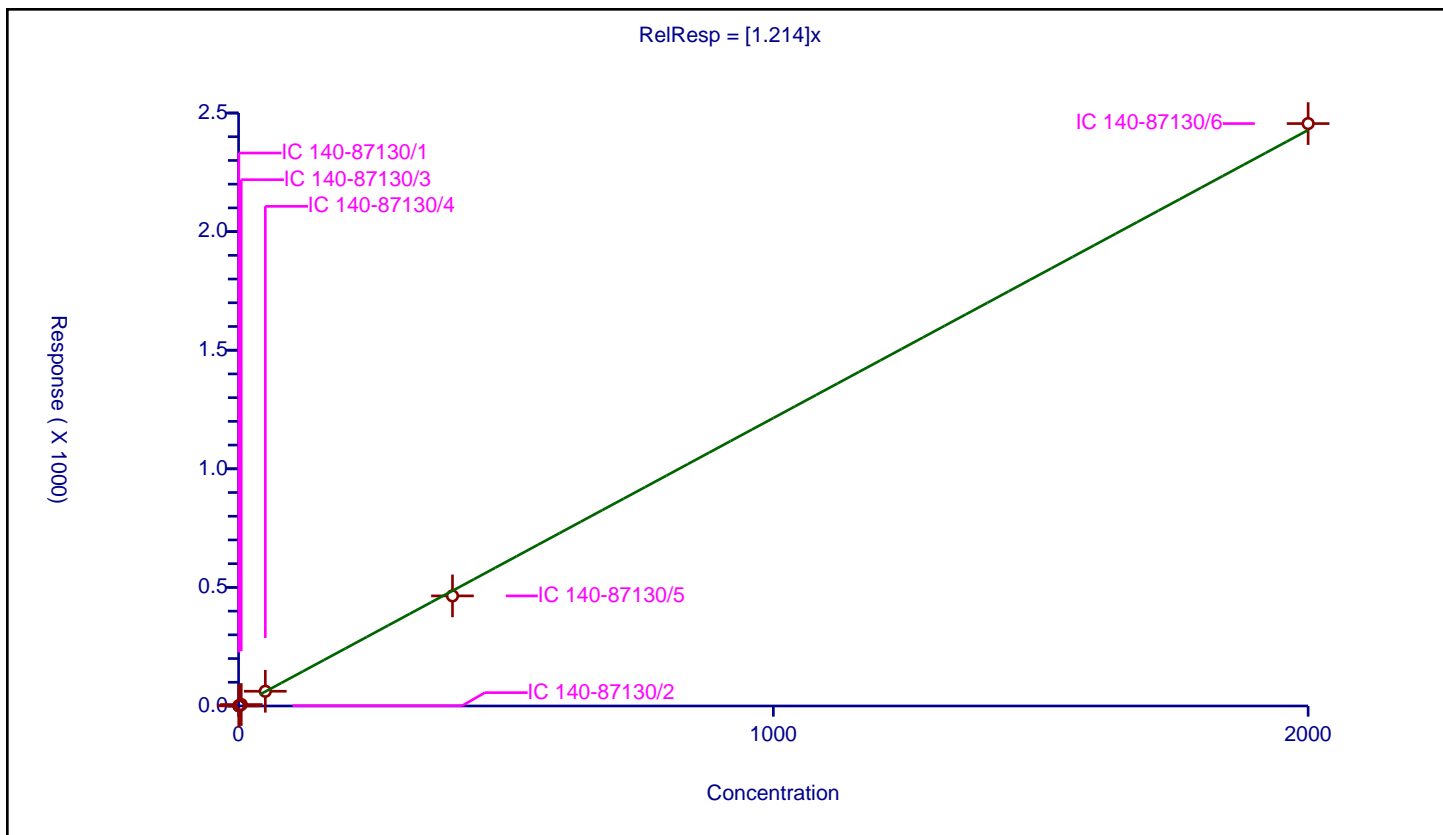
Curve Coefficients

Intercept: 0
 Slope: 1.214

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.644141	100.0	10371480.0	1.288283	Y
2	IC 140-87130/2	1.0	1.130128	100.0	9073751.0	1.130128	Y
3	IC 140-87130/3	5.0	6.181971	100.0	9321962.0	1.236394	Y
4	IC 140-87130/4	50.0	62.070206	100.0	9501201.0	1.241404	Y
5	IC 140-87130/5	400.0	464.16233	100.0	10377703.0	1.160406	Y
6	IC 140-87130/6	2000.0	2455.446673	100.0	11406816.0	1.227723	Y



Calibration

/ PCB-108

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

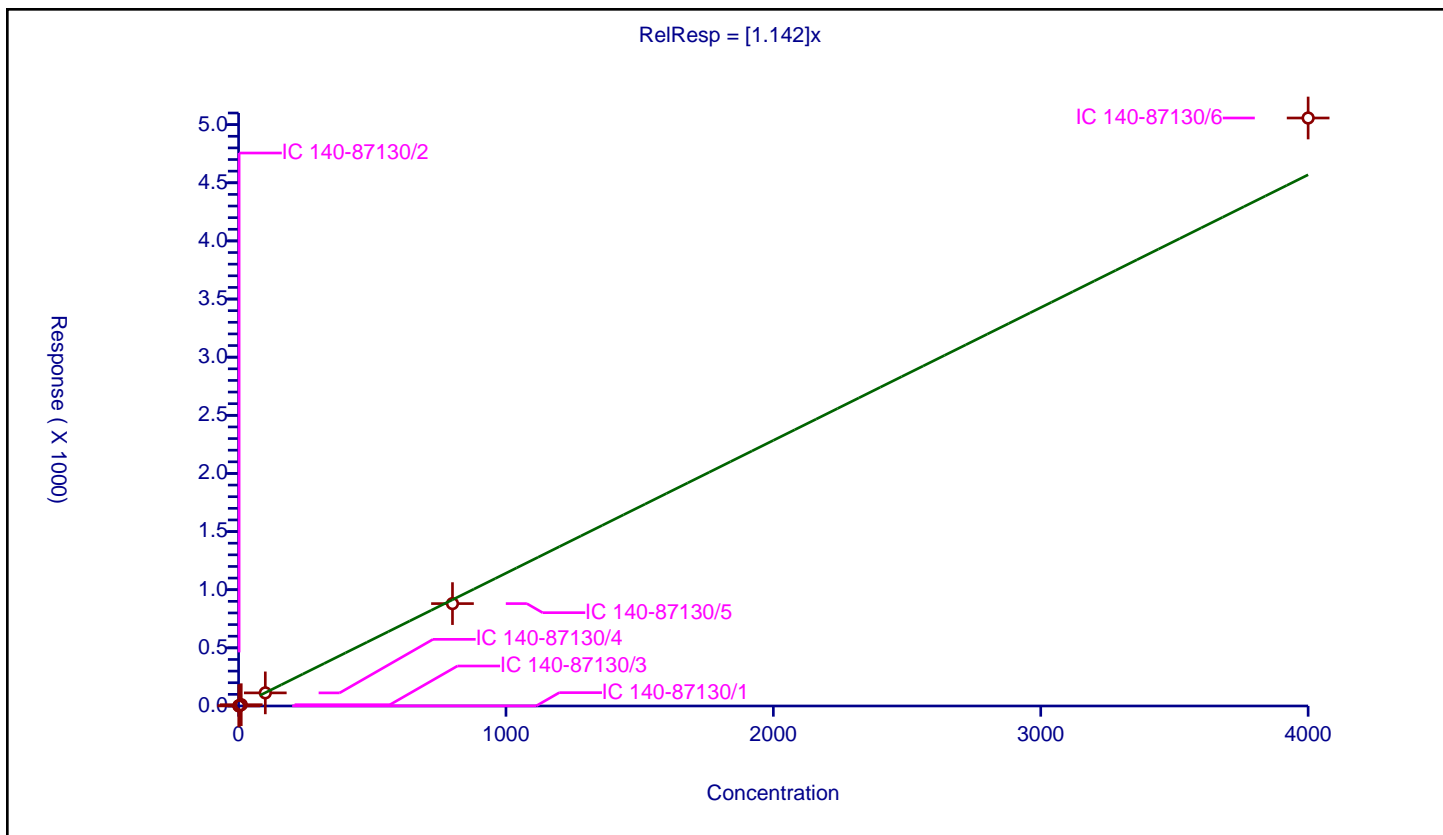
Curve Coefficients

Intercept: 0
 Slope: 1.142

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.102851	100.0	10371480.0	1.102851	Y
2	IC 140-87130/2	2.0	2.298608	100.0	9073751.0	1.149304	Y
3	IC 140-87130/3	10.0	11.092751	100.0	9321962.0	1.109275	Y
4	IC 140-87130/4	100.0	112.681302	100.0	9501201.0	1.126813	Y
5	IC 140-87130/5	800.0	880.500569	100.0	10377703.0	1.100626	Y
6	IC 140-87130/6	4000.0	5057.136698	100.0	11406816.0	1.264284	Y



Calibration

/ PCB-108/124

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

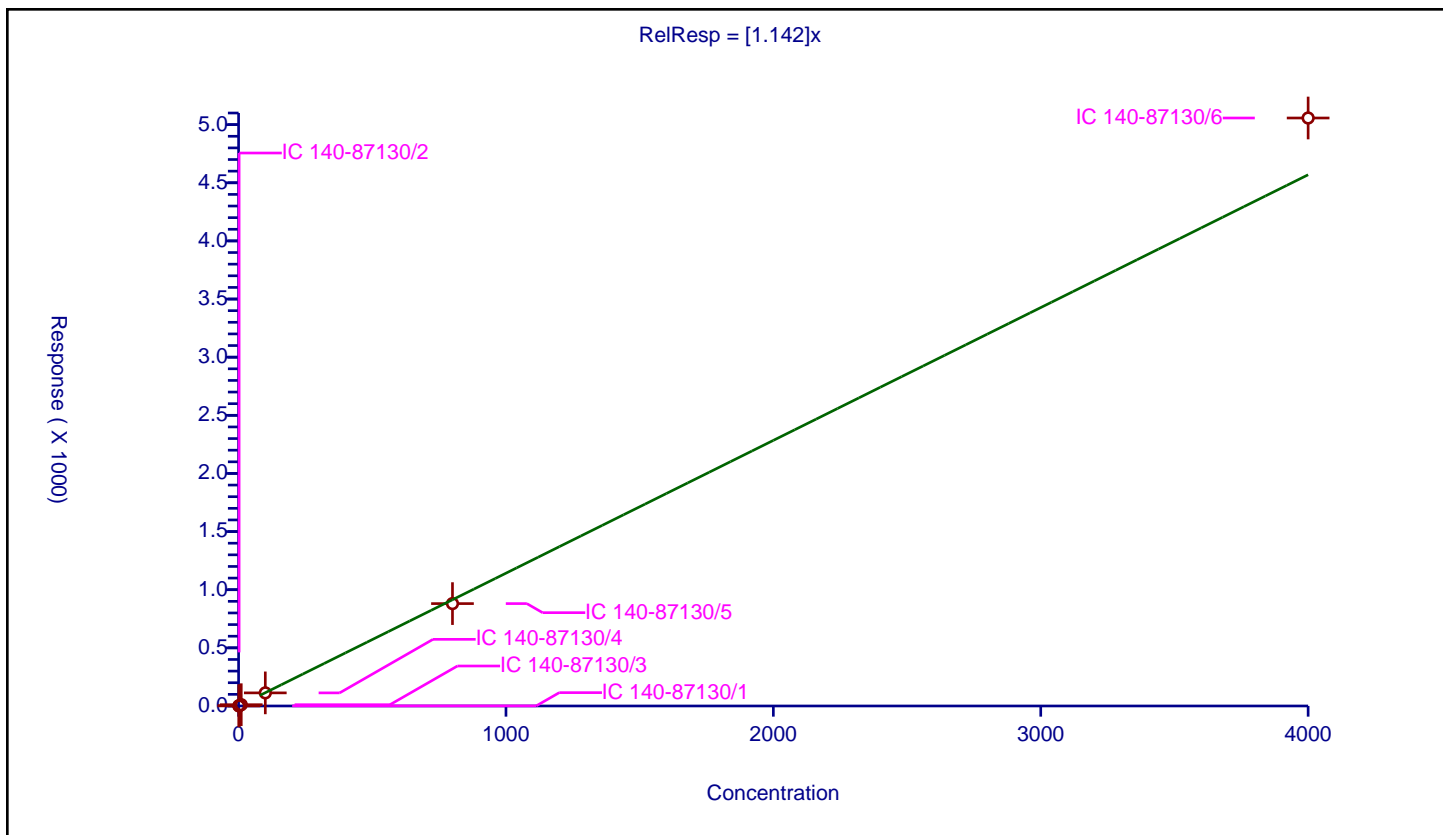
Curve Coefficients

Intercept: 0
 Slope: 1.142

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.102851	100.0	10371480.0	1.102851	Y
2	IC 140-87130/2	2.0	2.298608	100.0	9073751.0	1.149304	Y
3	IC 140-87130/3	10.0	11.092751	100.0	9321962.0	1.109275	Y
4	IC 140-87130/4	100.0	112.681302	100.0	9501201.0	1.126813	Y
5	IC 140-87130/5	800.0	880.500569	100.0	10377703.0	1.100626	Y
6	IC 140-87130/6	4000.0	5057.136698	100.0	11406816.0	1.264284	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

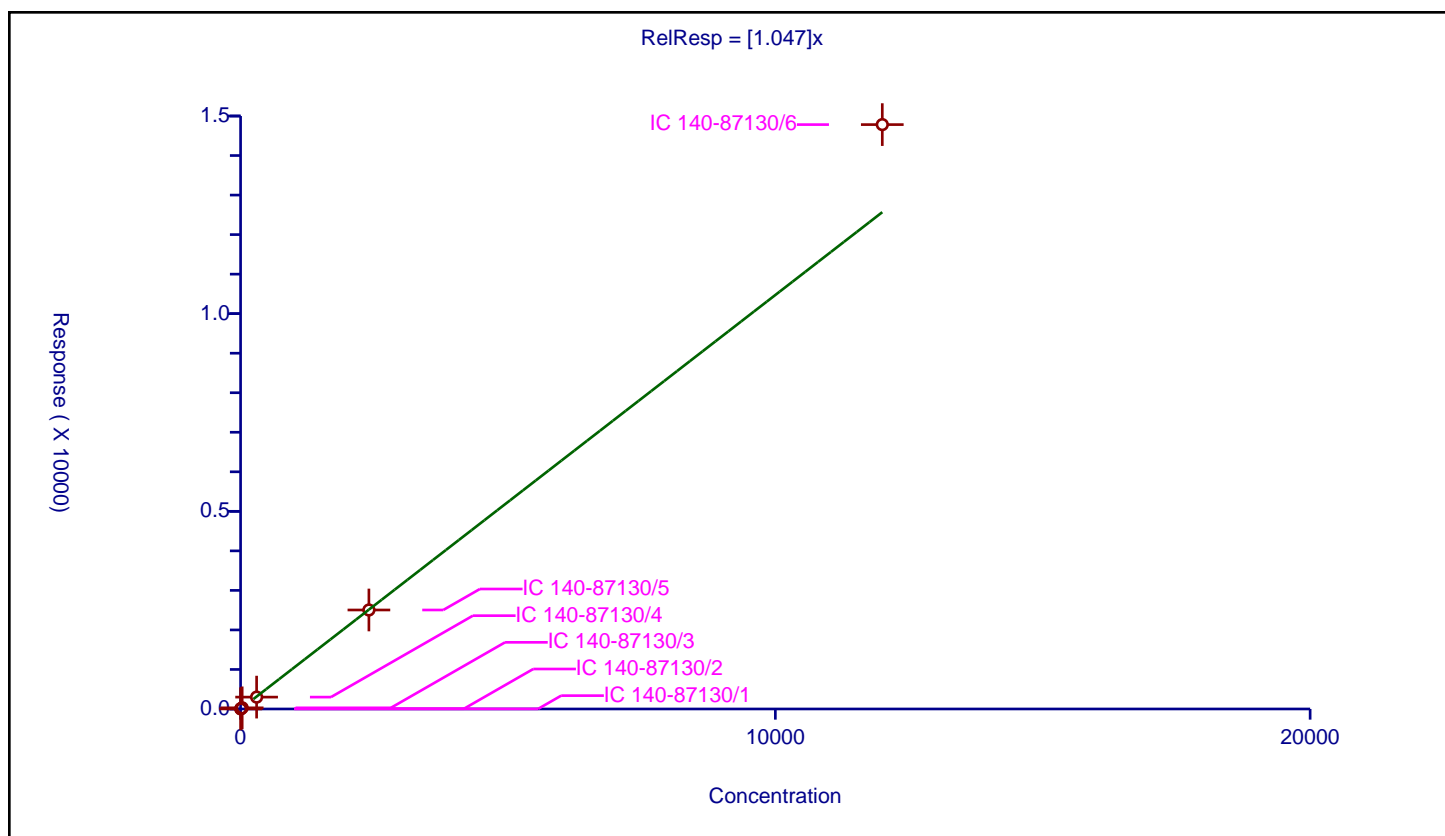
Curve Coefficients

Intercept: 0
Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

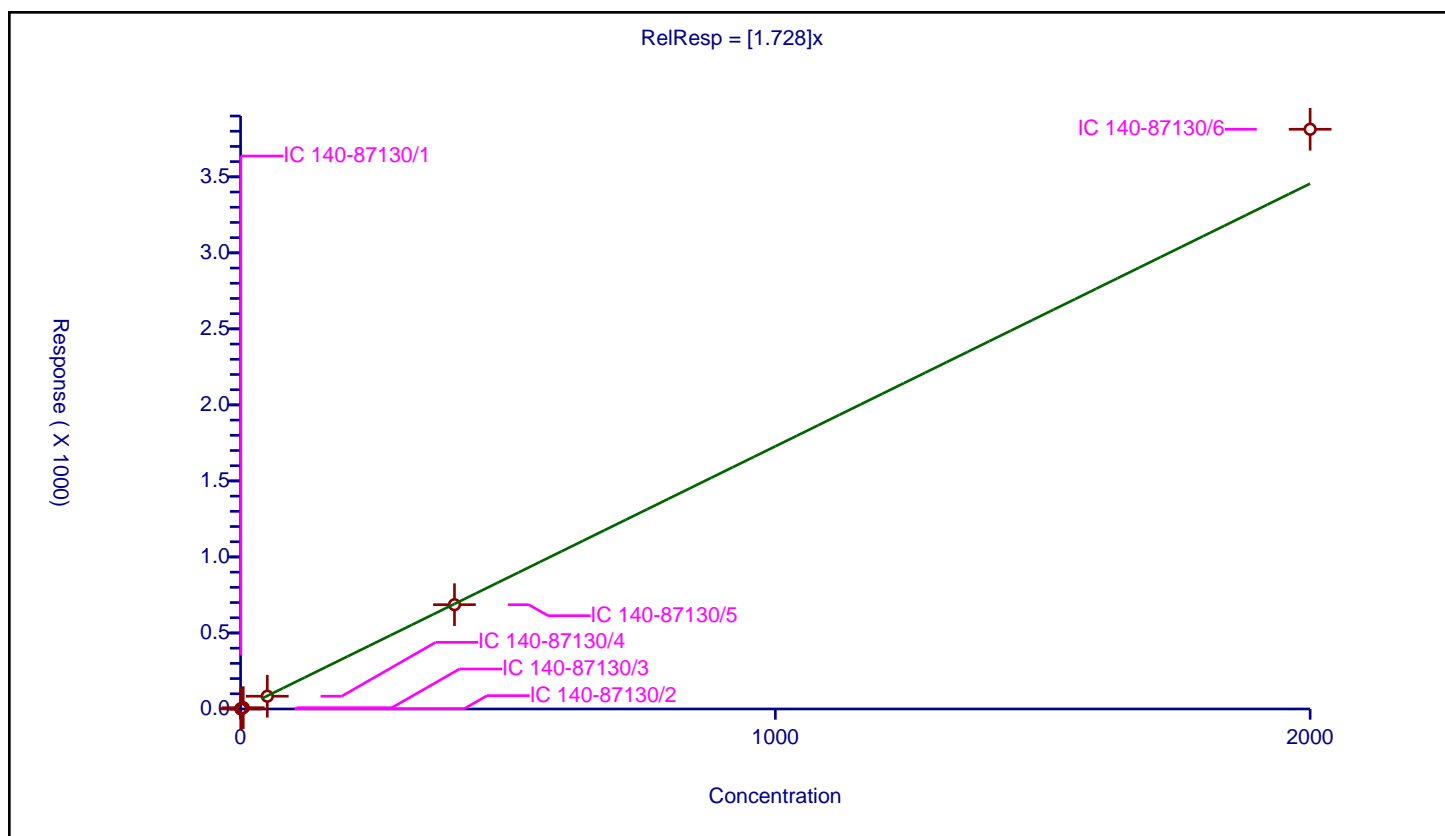
Curve Coefficients

Intercept: 0
Slope: 1.728

Error Coefficients

Relative Standard Deviation: 7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.905984	100.0	5904521.0	1.811967	Y
2	IC 140-87130/2	1.0	1.53648	100.0	5442766.0	1.53648	Y
3	IC 140-87130/3	5.0	8.577671	100.0	5279032.0	1.715534	Y
4	IC 140-87130/4	50.0	84.007238	100.0	5474214.0	1.680145	Y
5	IC 140-87130/5	400.0	686.009431	100.0	5561618.0	1.715024	Y
6	IC 140-87130/6	2000.0	3812.897707	100.0	5672202.0	1.906449	Y



Calibration

/ PCB-110

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

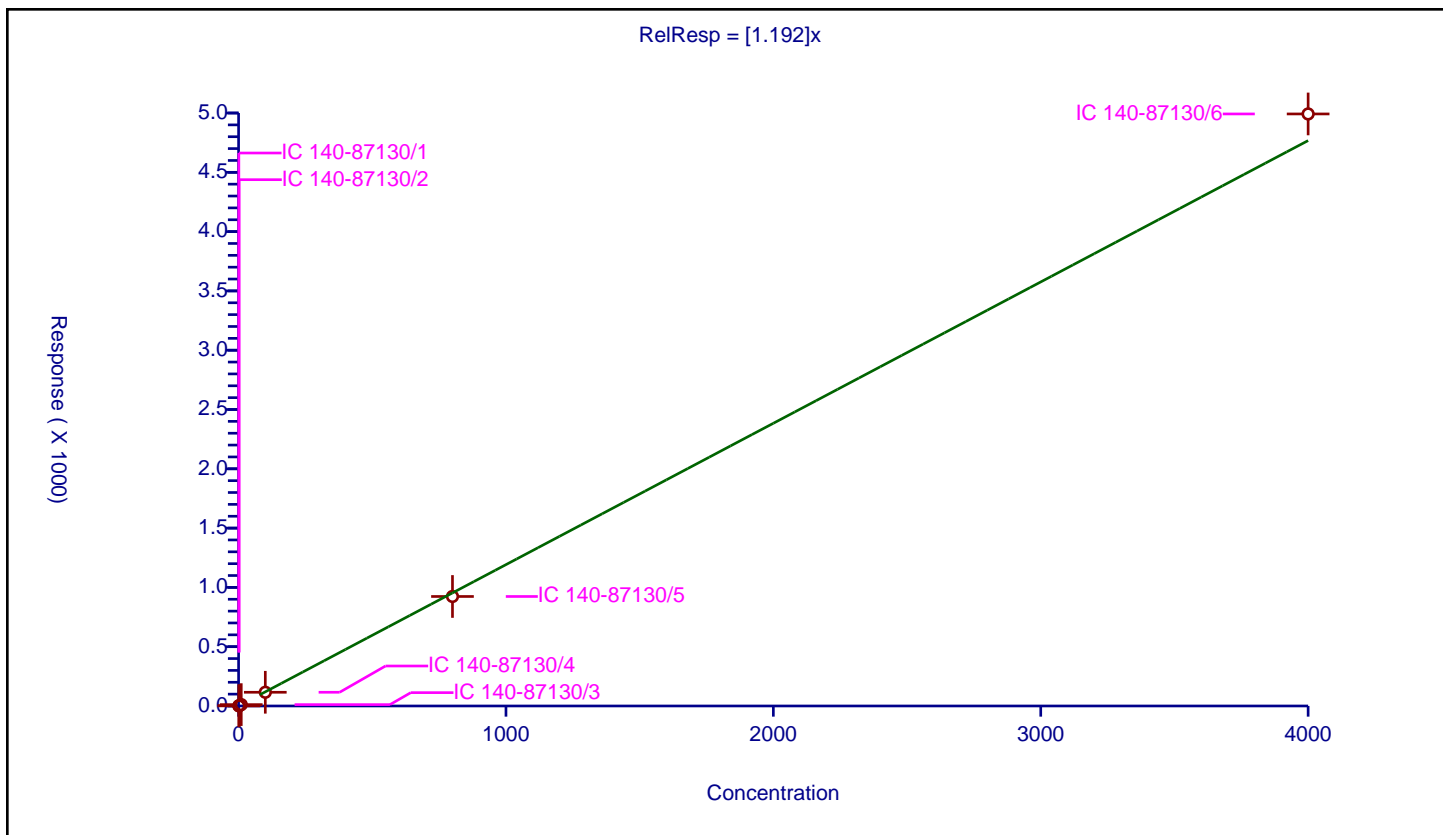
Curve Coefficients

Intercept: 0
 Slope: 1.192

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.201905	100.0	6938320.0	1.201905	Y
2	IC 140-87130/2	2.0	2.454065	100.0	6240748.0	1.227032	Y
3	IC 140-87130/3	10.0	11.638766	100.0	6307301.0	1.163877	Y
4	IC 140-87130/4	100.0	115.613439	100.0	6455349.0	1.156134	Y
5	IC 140-87130/5	800.0	923.3365	100.0	6672003.0	1.154171	Y
6	IC 140-87130/6	4000.0	4992.179348	100.0	6975966.0	1.248045	Y



Calibration

/ PCB-110/115

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

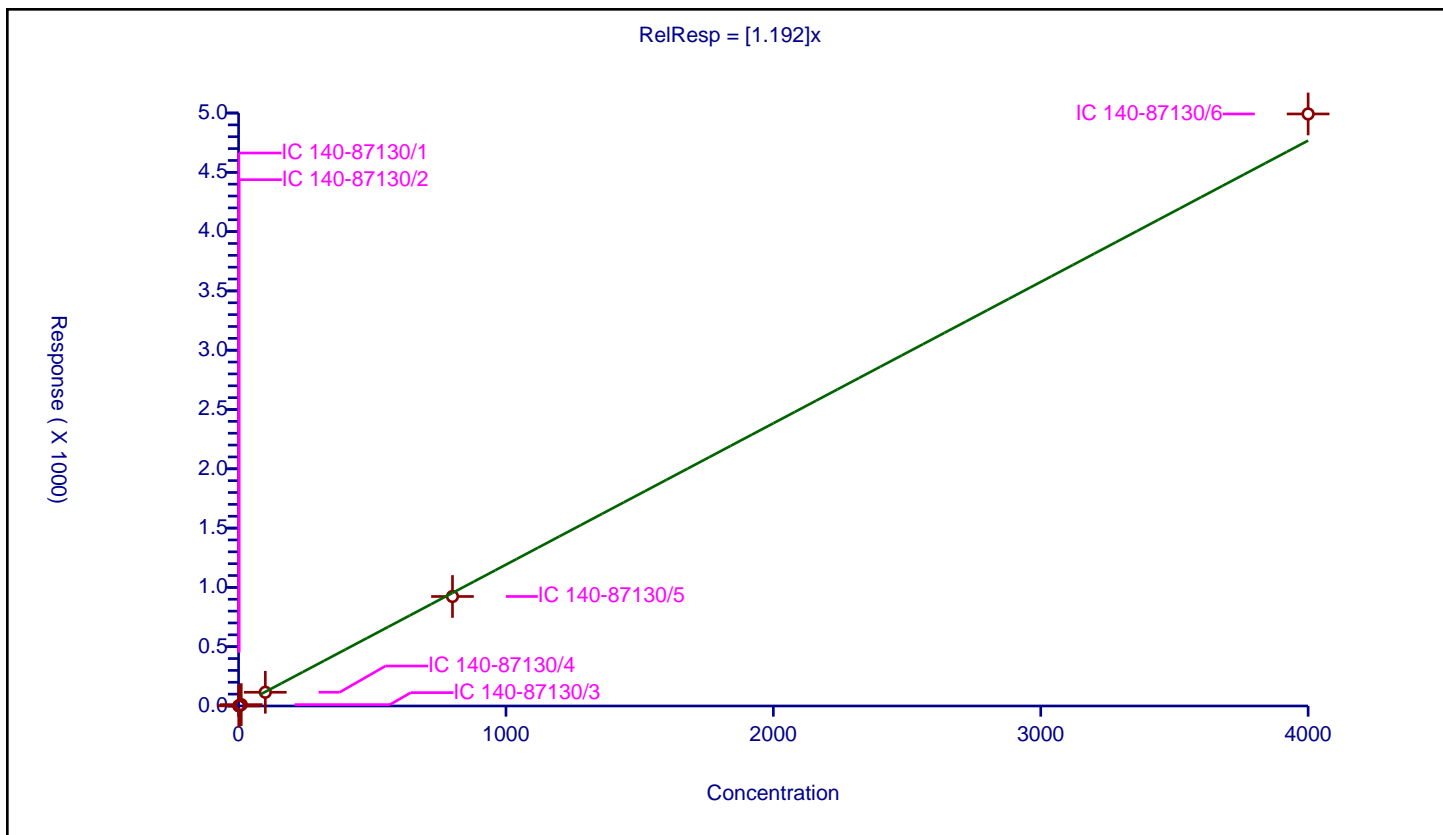
Curve Coefficients

Intercept: 0
 Slope: 1.192

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.201905	100.0	6938320.0	1.201905	Y
2	IC 140-87130/2	2.0	2.454065	100.0	6240748.0	1.227032	Y
3	IC 140-87130/3	10.0	11.638766	100.0	6307301.0	1.163877	Y
4	IC 140-87130/4	100.0	115.613439	100.0	6455349.0	1.156134	Y
5	IC 140-87130/5	800.0	923.3365	100.0	6672003.0	1.154171	Y
6	IC 140-87130/6	4000.0	4992.179348	100.0	6975966.0	1.248045	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

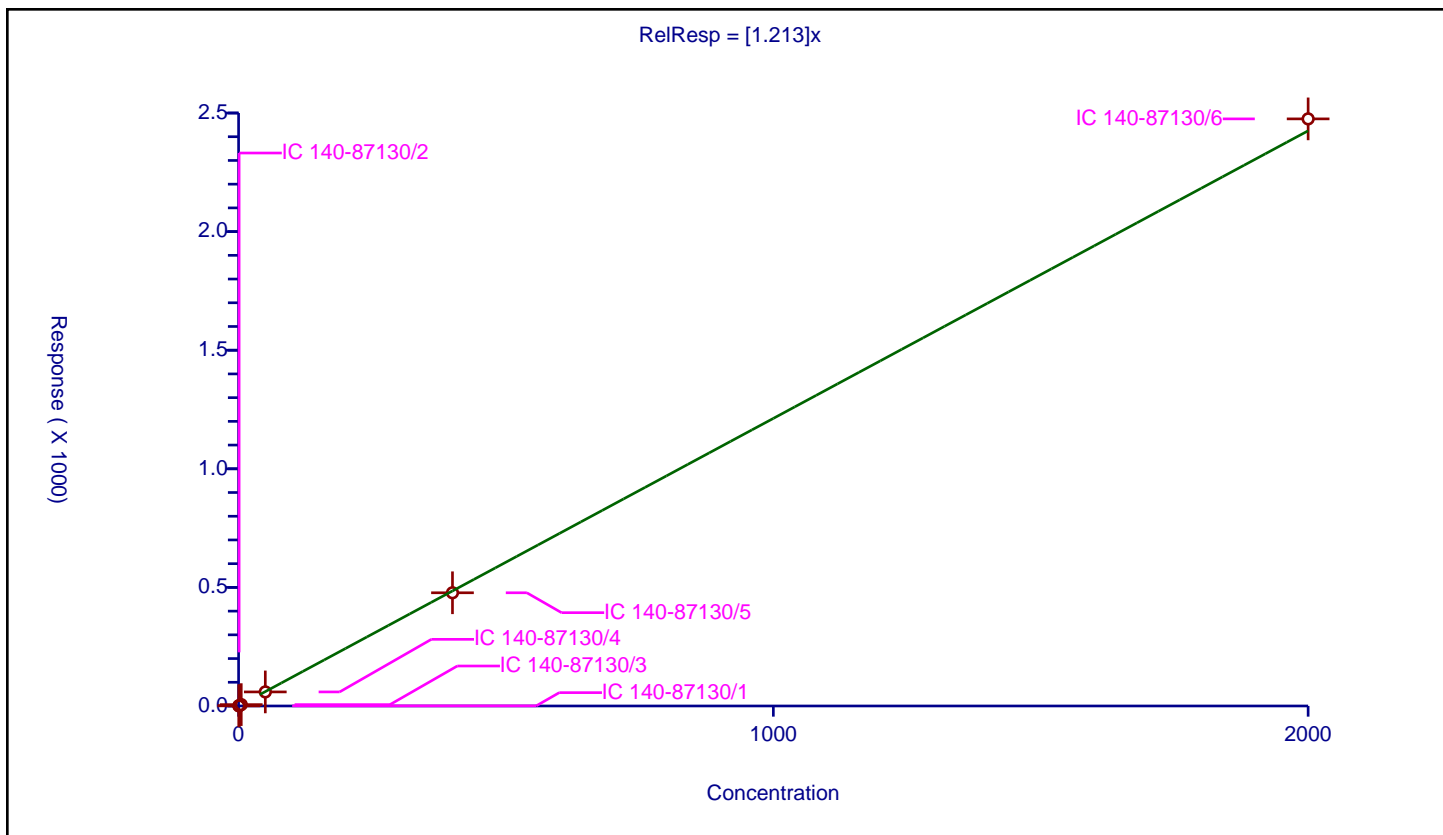
Curve Coefficients

Intercept: 0
Slope: 1.213

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.579305	100.0	6938320.0	1.158609	Y
2	IC 140-87130/2	1.0	1.336875	100.0	6240748.0	1.336875	Y
3	IC 140-87130/3	5.0	5.817496	100.0	6307301.0	1.163499	Y
4	IC 140-87130/4	50.0	59.254674	100.0	6455349.0	1.185093	Y
5	IC 140-87130/5	400.0	477.365927	100.0	6672003.0	1.193415	Y
6	IC 140-87130/6	2000.0	2475.269203	100.0	6975966.0	1.237635	Y



Calibration

/ PCB-111L

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

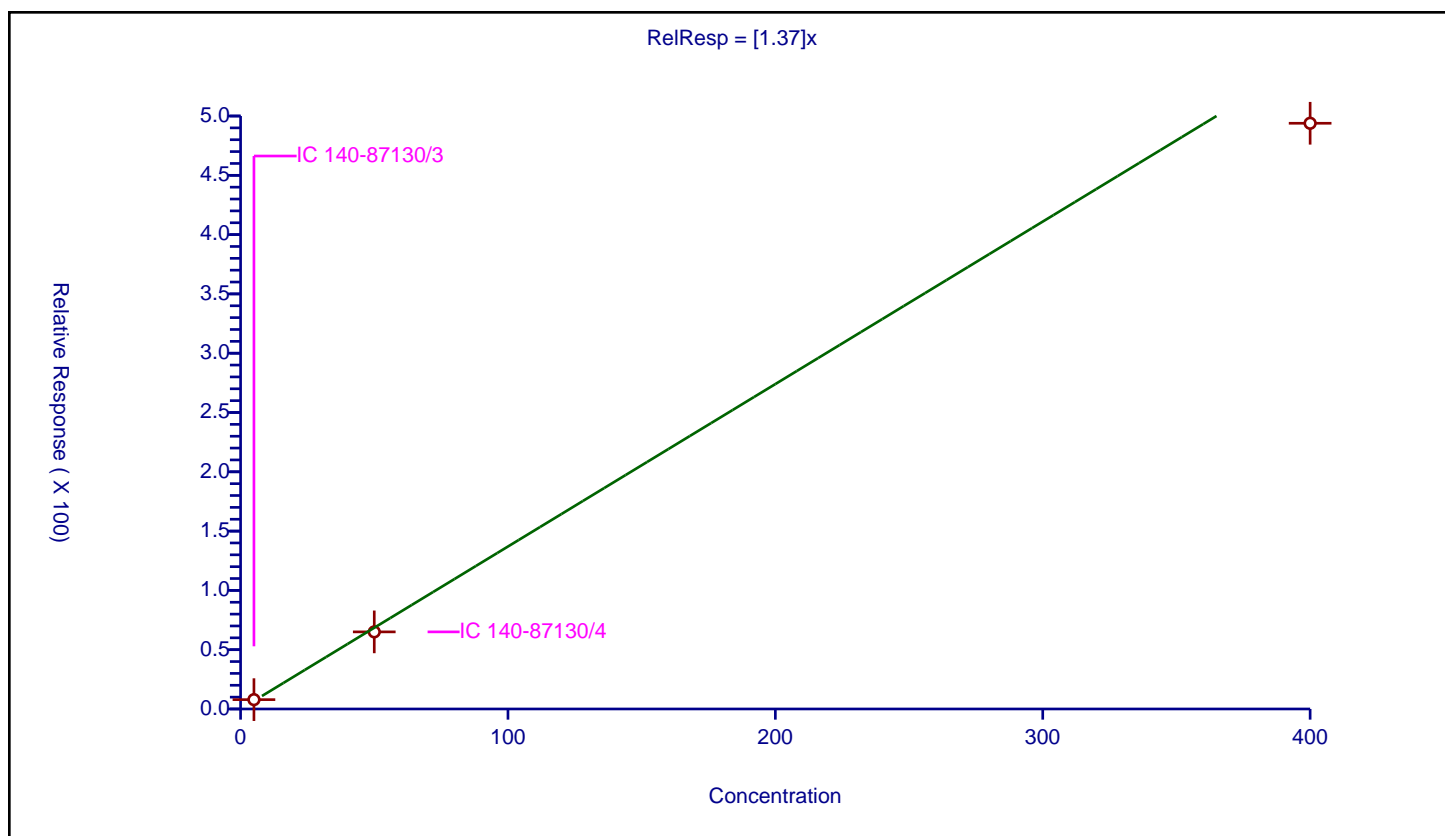
Curve Coefficients

Intercept: 0
Slope: 1.37

Error Coefficients

Relative Standard Deviation: 13.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	7.872484	100.0	5008775.0	1.574497	Y
2	IC 140-87130/4	50.0	65.024134	100.0	5228368.0	1.300483	Y
3	IC 140-87130/5	400.0	493.88691	100.0	5633550.0	1.234717	Y



Calibration

/ PCB-112

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

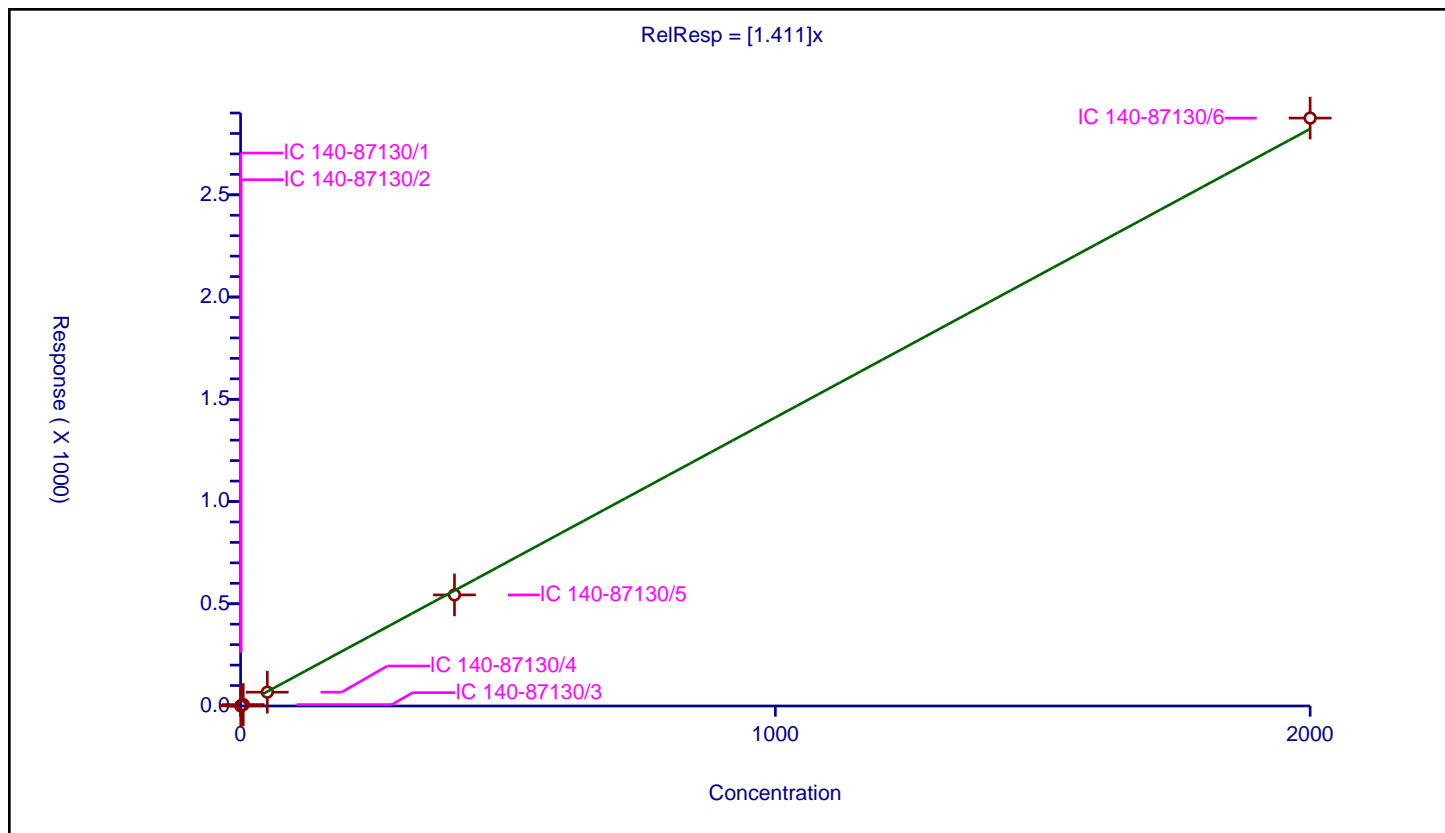
Curve Coefficients

Intercept: 0
 Slope: 1.411

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.722279	100.0	6938320.0	1.444557	Y
2	IC 140-87130/2	1.0	1.488507	100.0	6240748.0	1.488507	Y
3	IC 140-87130/3	5.0	6.936121	100.0	6307301.0	1.387224	Y
4	IC 140-87130/4	50.0	67.531562	100.0	6455349.0	1.350631	Y
5	IC 140-87130/5	400.0	543.236282	100.0	6672003.0	1.358091	Y
6	IC 140-87130/6	2000.0	2875.272113	100.0	6975966.0	1.437636	Y



Calibration

/ PCB-113

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

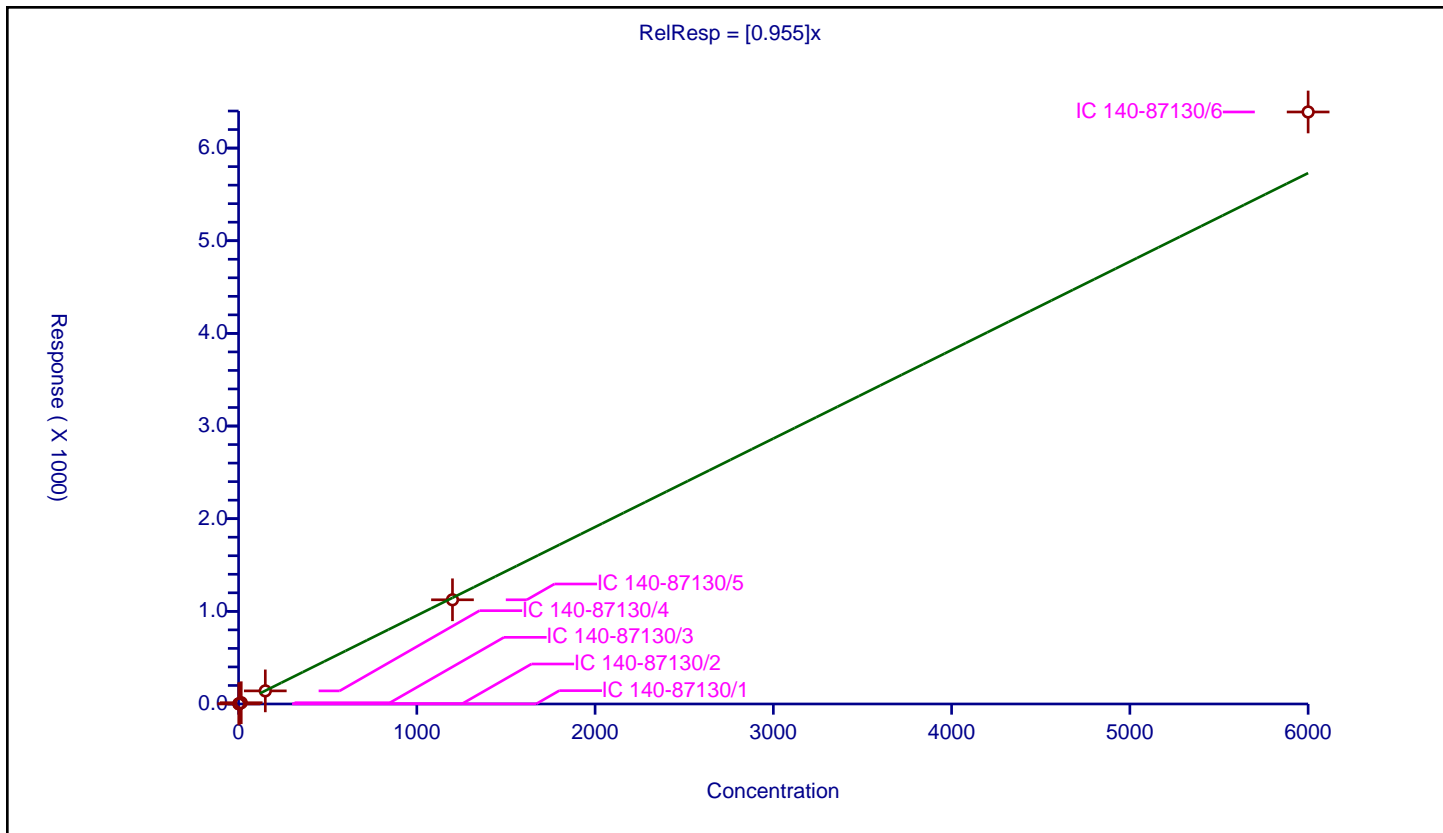
Curve Coefficients

Intercept: 0
 Slope: 0.955

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.423053	100.0	6938320.0	0.948702	Y
2	IC 140-87130/2	3.0	2.801892	100.0	6240748.0	0.933964	Y
3	IC 140-87130/3	15.0	13.539722	100.0	6307301.0	0.902648	Y
4	IC 140-87130/4	150.0	141.38193	100.0	6455349.0	0.942546	Y
5	IC 140-87130/5	1200.0	1124.566761	100.0	6672003.0	0.937139	Y
6	IC 140-87130/6	6000.0	6389.746882	100.0	6975966.0	1.064958	Y



Calibration

/ PCB-114

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

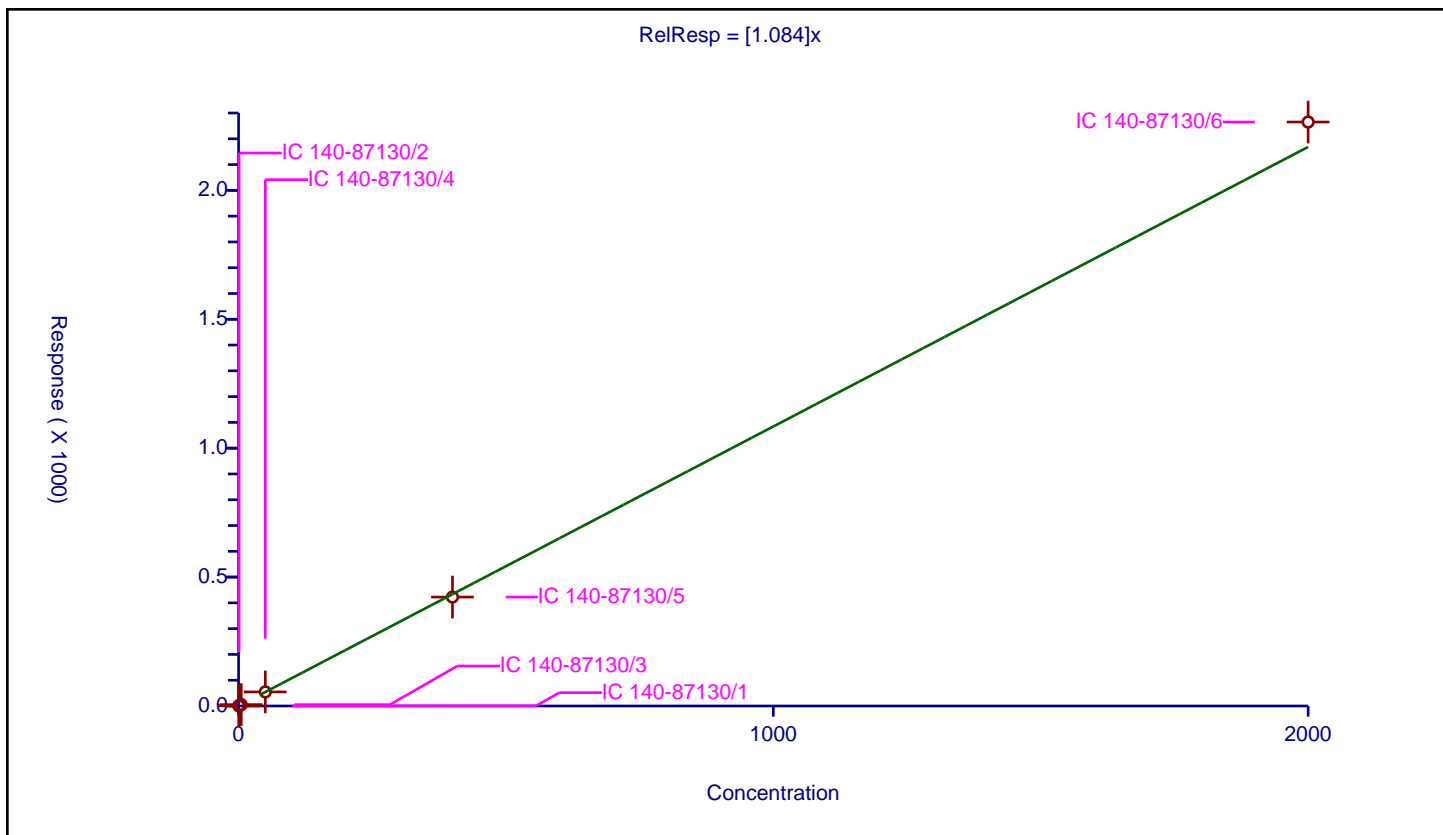
Curve Coefficients

Intercept: 0
 Slope: 1.084

Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.530477	100.0	10504311.0	1.060955	Y
2	IC 140-87130/2	1.0	1.106681	100.0	9705413.0	1.106681	Y
3	IC 140-87130/3	5.0	5.290959	100.0	9387618.0	1.058192	Y
4	IC 140-87130/4	50.0	54.520315	100.0	9734953.0	1.090406	Y
5	IC 140-87130/5	400.0	422.463958	100.0	10559524.0	1.05616	Y
6	IC 140-87130/6	2000.0	2265.056641	100.0	11474644.0	1.132528	Y



Calibration

/ PCB-115

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

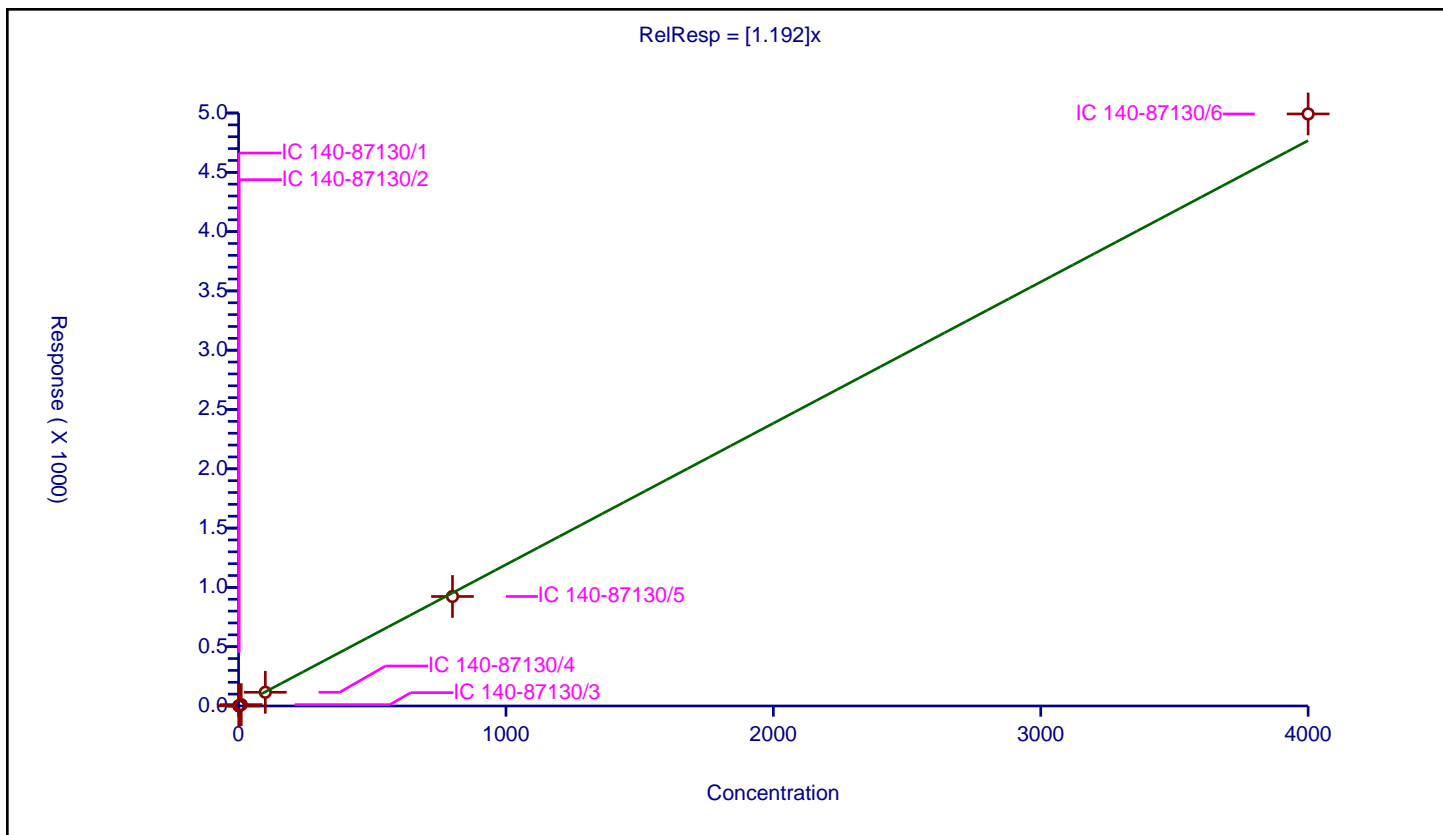
Curve Coefficients

Intercept: 0
 Slope: 1.192

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.201905	100.0	6938320.0	1.201905	Y
2	IC 140-87130/2	2.0	2.454065	100.0	6240748.0	1.227032	Y
3	IC 140-87130/3	10.0	11.638766	100.0	6307301.0	1.163877	Y
4	IC 140-87130/4	100.0	115.613439	100.0	6455349.0	1.156134	Y
5	IC 140-87130/5	800.0	923.3365	100.0	6672003.0	1.154171	Y
6	IC 140-87130/6	4000.0	4992.179348	100.0	6975966.0	1.248045	Y



Calibration

/ PCB-116

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

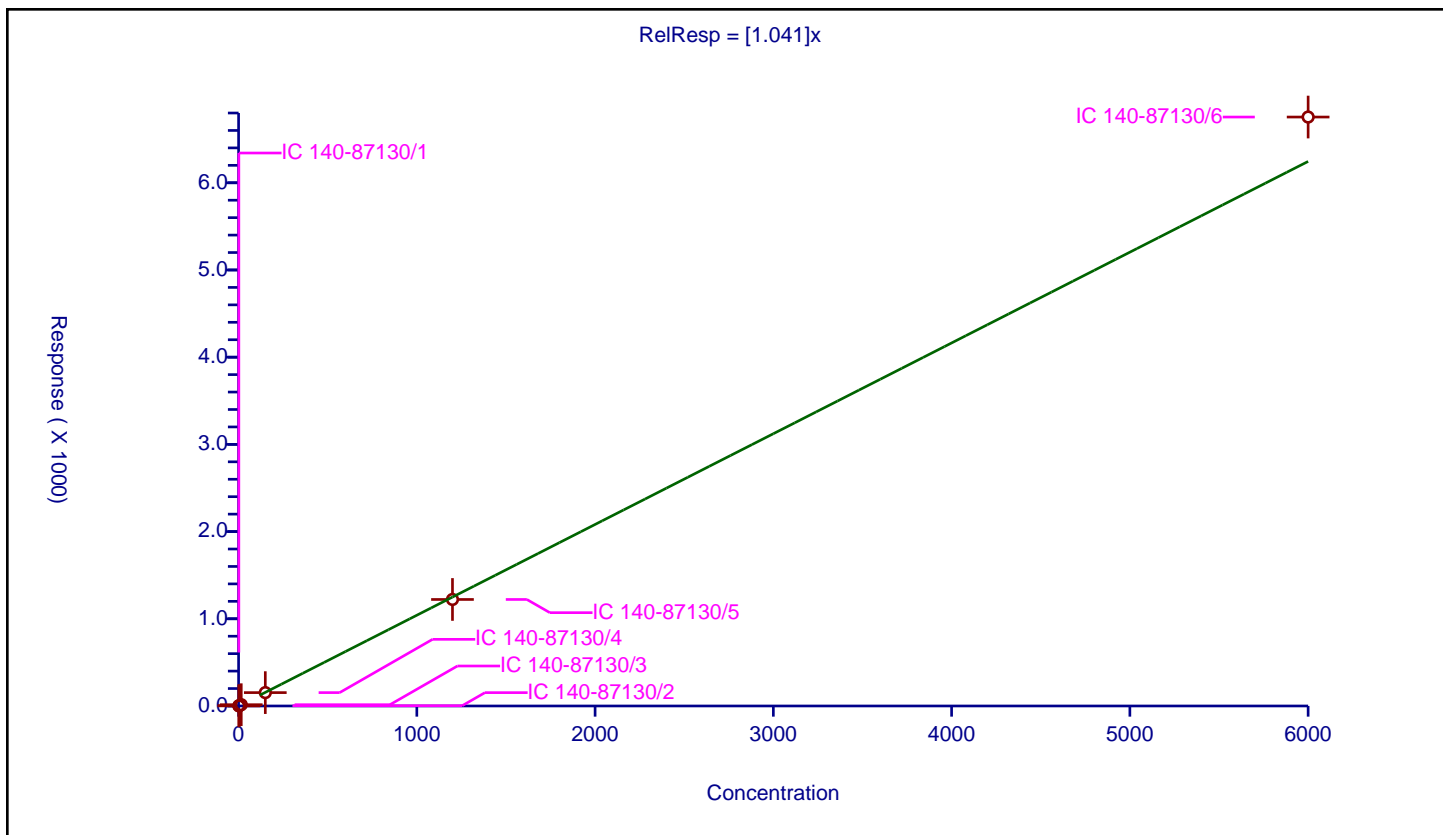
Curve Coefficients

Intercept: 0
 Slope: 1.041

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.585528	100.0	6938320.0	1.057019	Y
2	IC 140-87130/2	3.0	3.091152	100.0	6240748.0	1.030384	Y
3	IC 140-87130/3	15.0	14.877029	100.0	6307301.0	0.991802	Y
4	IC 140-87130/4	150.0	153.280512	100.0	6455349.0	1.02187	Y
5	IC 140-87130/5	1200.0	1221.649091	100.0	6672003.0	1.018041	Y
6	IC 140-87130/6	6000.0	6753.818009	100.0	6975966.0	1.125636	Y



Calibration

/ PCB-117

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

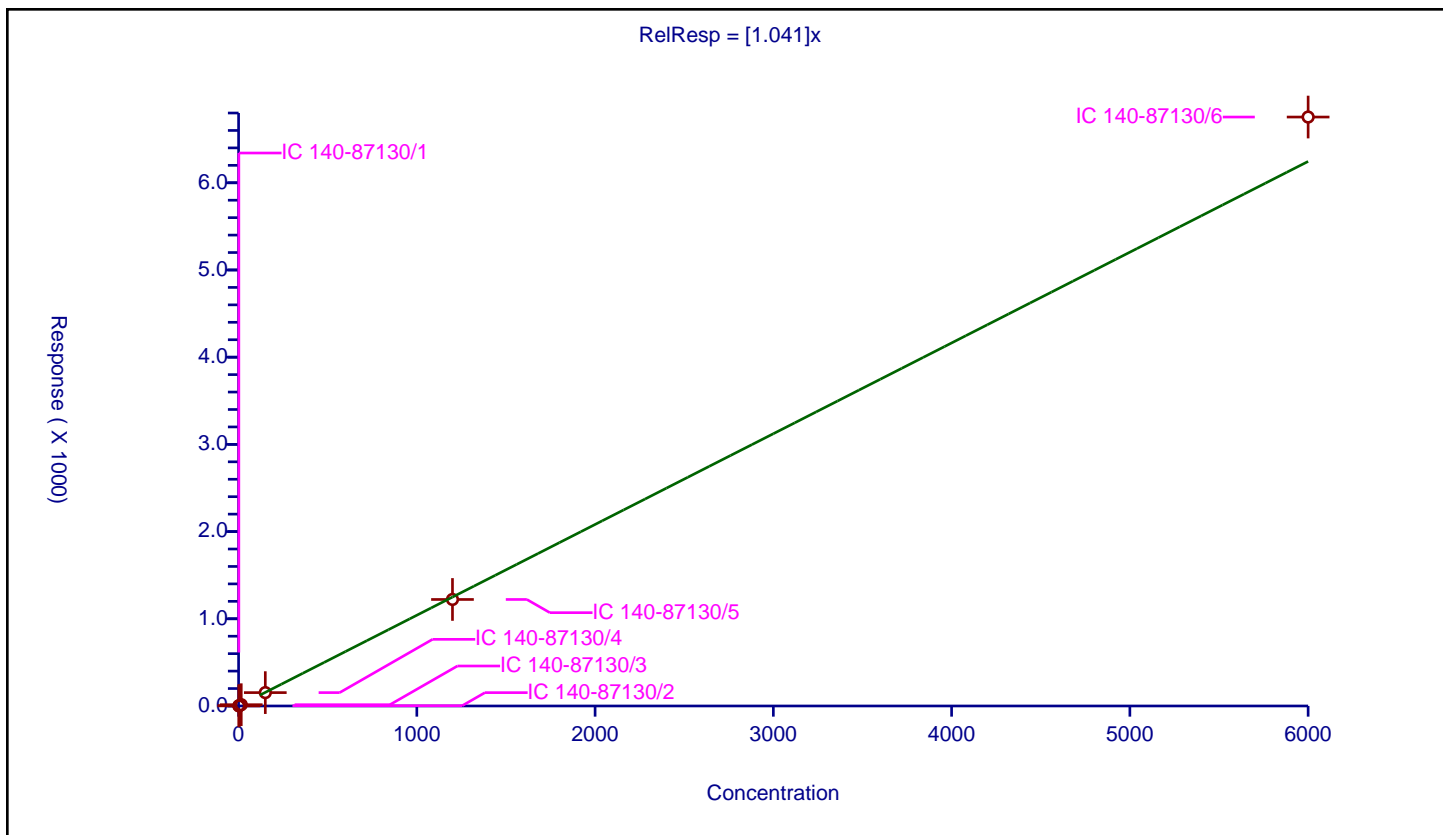
Curve Coefficients

Intercept: 0
 Slope: 1.041

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.585528	100.0	6938320.0	1.057019	Y
2	IC 140-87130/2	3.0	3.091152	100.0	6240748.0	1.030384	Y
3	IC 140-87130/3	15.0	14.877029	100.0	6307301.0	0.991802	Y
4	IC 140-87130/4	150.0	153.280512	100.0	6455349.0	1.02187	Y
5	IC 140-87130/5	1200.0	1221.649091	100.0	6672003.0	1.018041	Y
6	IC 140-87130/6	6000.0	6753.818009	100.0	6975966.0	1.125636	Y



Calibration

/ PCB-118

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

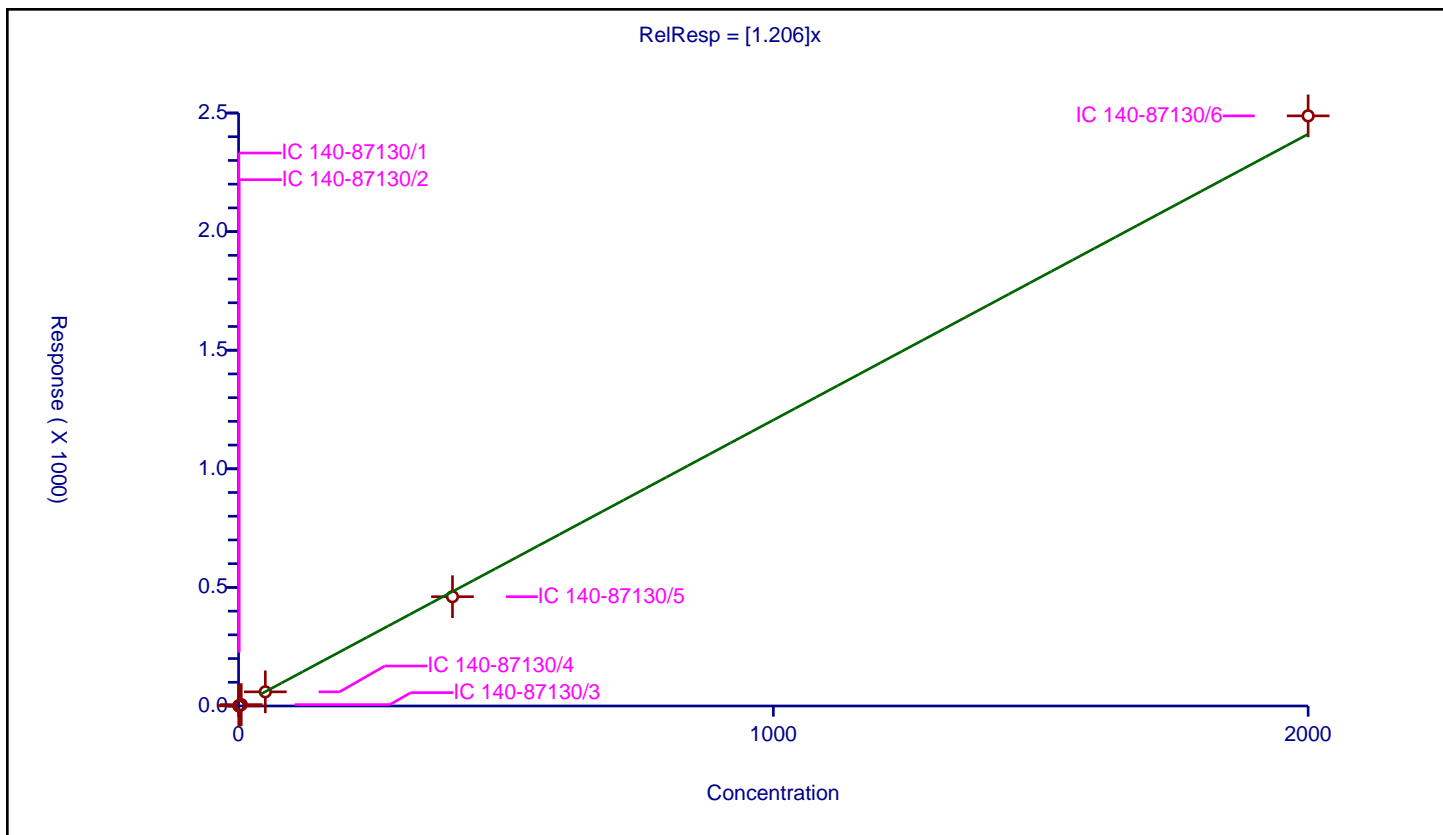
Curve Coefficients

Intercept: 0
 Slope: 1.206

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.609173	100.0	10759990.0	1.218347	Y
2	IC 140-87130/2	1.0	1.261874	100.0	9353232.0	1.261874	Y
3	IC 140-87130/3	5.0	5.826279	100.0	9948185.0	1.165256	Y
4	IC 140-87130/4	50.0	59.595331	100.0	10094764.0	1.191907	Y
5	IC 140-87130/5	400.0	460.770003	100.0	10740248.0	1.151925	Y
6	IC 140-87130/6	2000.0	2487.929052	100.0	11370905.0	1.243965	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

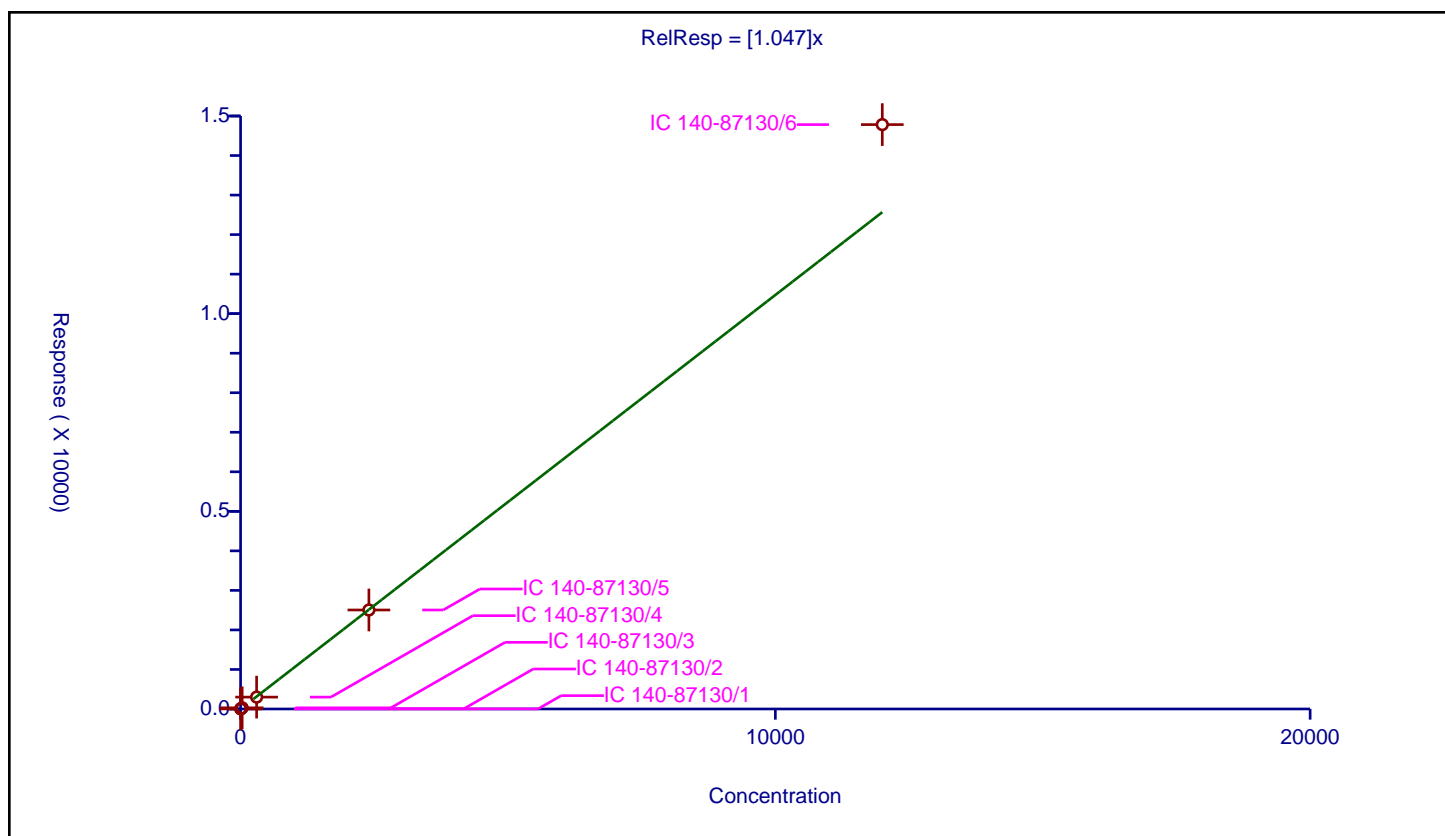
Curve Coefficients

Intercept: 0
Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Calibration

/ PCB-12

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

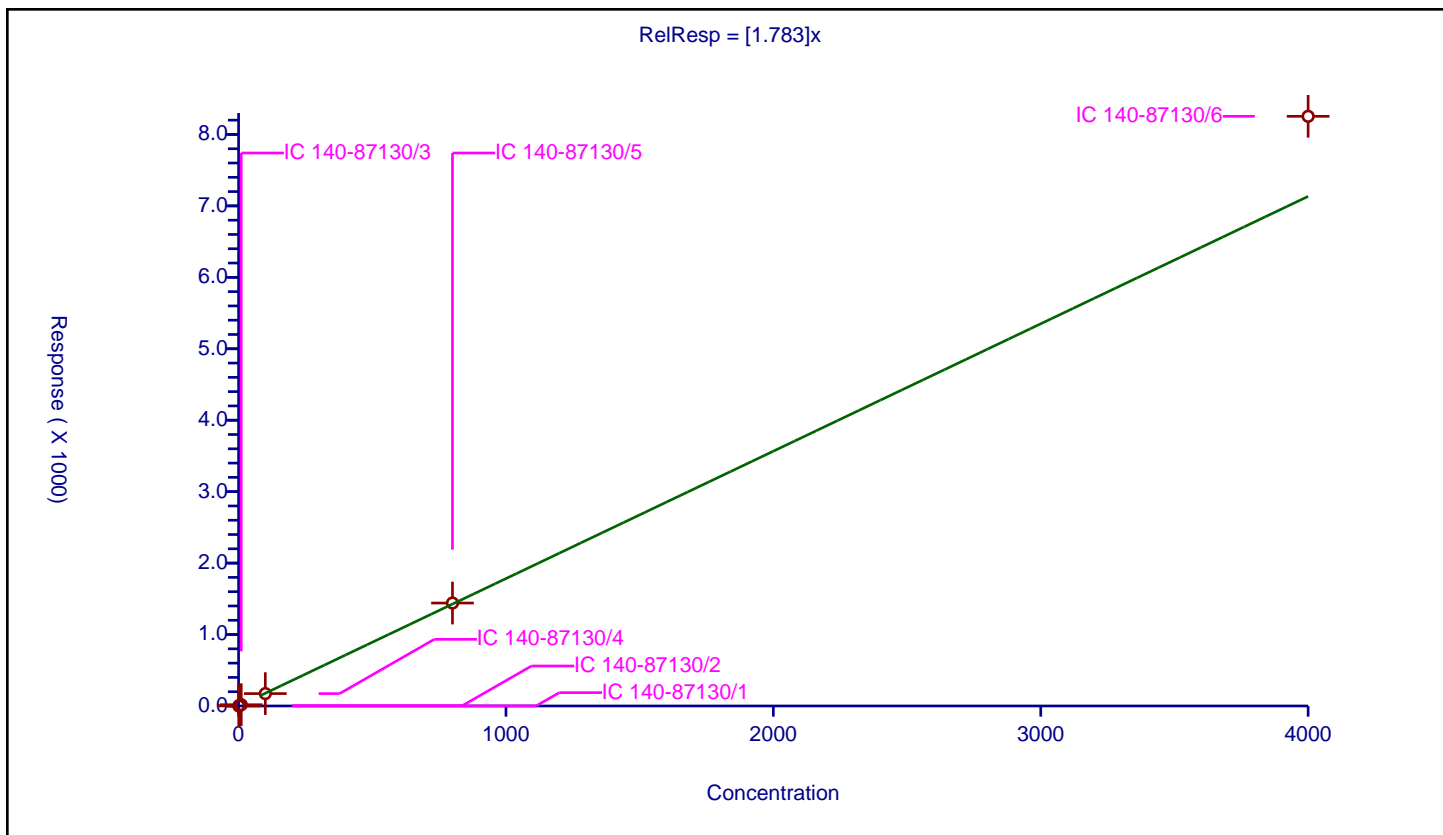
Curve Coefficients

Intercept: 0
Slope: 1.783

Error Coefficients

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.645773	100.0	5904521.0	1.645773	Y
2	IC 140-87130/2	2.0	3.337329	100.0	5442766.0	1.668664	Y
3	IC 140-87130/3	10.0	17.87178	100.0	5279032.0	1.787178	Y
4	IC 140-87130/4	100.0	173.311548	100.0	5474214.0	1.733115	Y
5	IC 140-87130/5	800.0	1441.118879	100.0	5561618.0	1.801399	Y
6	IC 140-87130/6	4000.0	8253.622121	100.0	5672202.0	2.063406	Y



Calibration

/ PCB-12/13

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

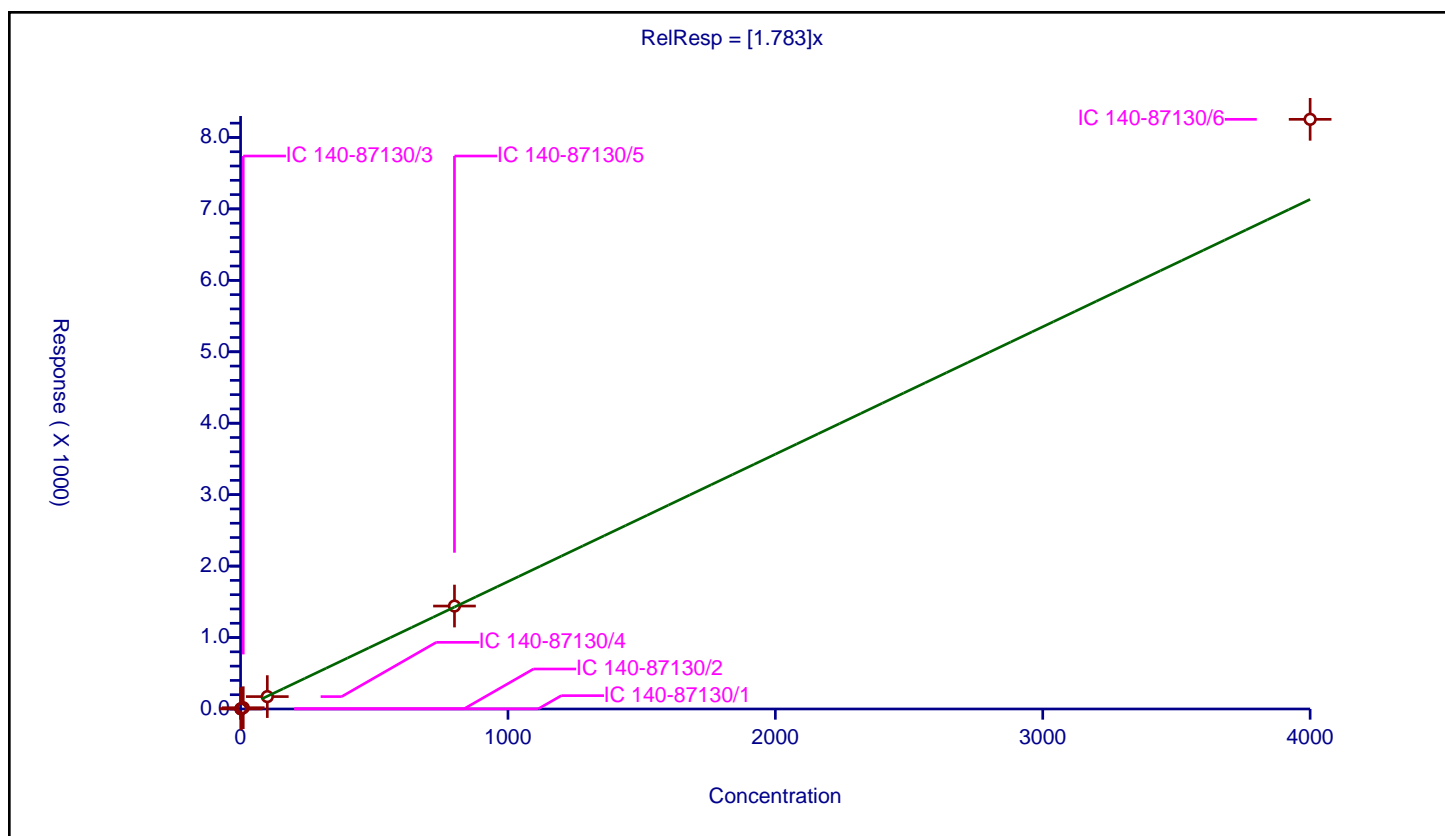
Curve Coefficients

Intercept: 0
 Slope: 1.783

Error Coefficients

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.645773	100.0	5904521.0	1.645773	Y
2	IC 140-87130/2	2.0	3.337329	100.0	5442766.0	1.668664	Y
3	IC 140-87130/3	10.0	17.87178	100.0	5279032.0	1.787178	Y
4	IC 140-87130/4	100.0	173.311548	100.0	5474214.0	1.733115	Y
5	IC 140-87130/5	800.0	1441.118879	100.0	5561618.0	1.801399	Y
6	IC 140-87130/6	4000.0	8253.622121	100.0	5672202.0	2.063406	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

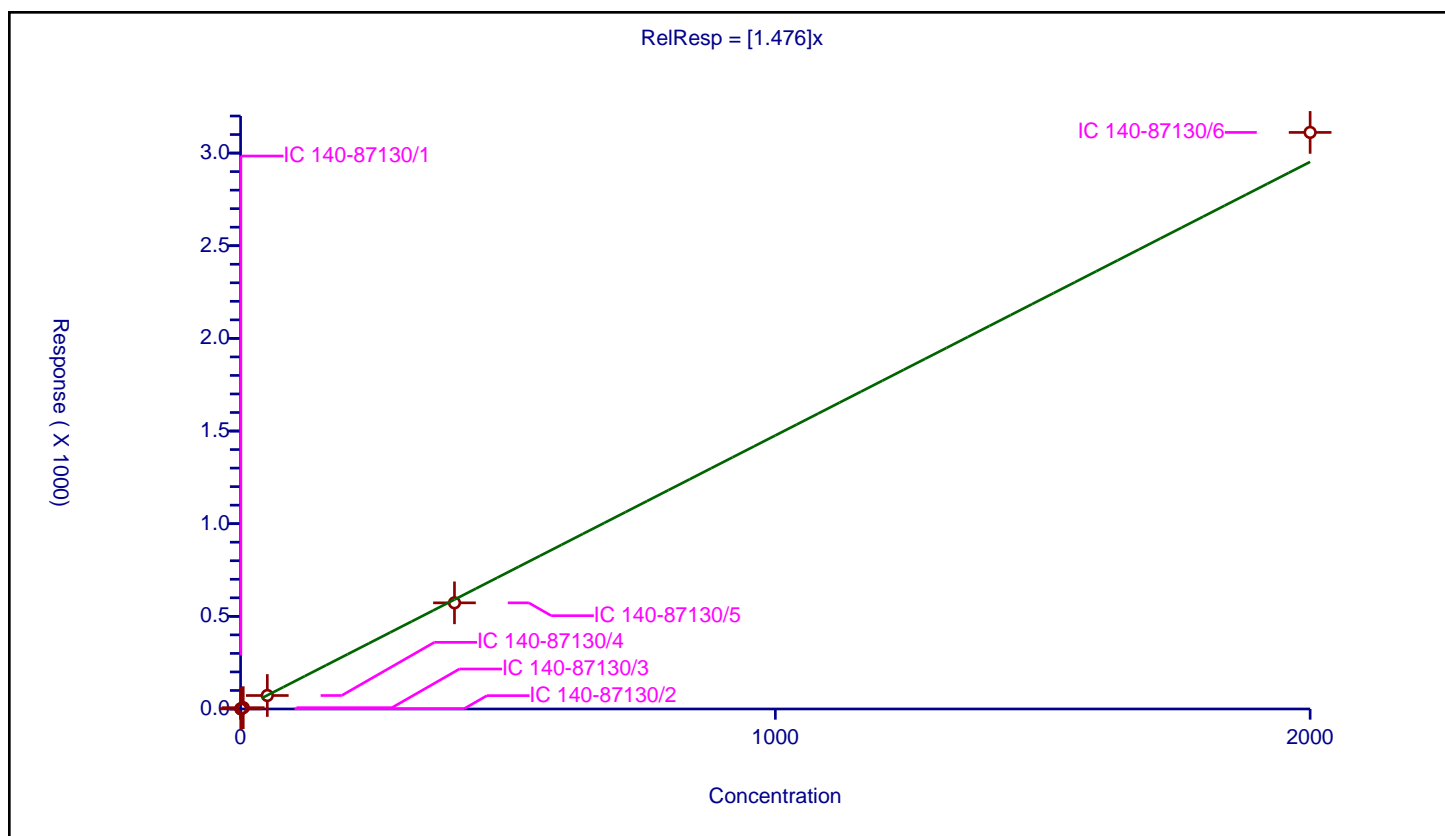
Curve Coefficients

Intercept: 0
Slope: 1.476

Error Coefficients

Relative Standard Deviation: 3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.764782	100.0	6938320.0	1.529563	Y
2	IC 140-87130/2	1.0	1.468894	100.0	6240748.0	1.468894	Y
3	IC 140-87130/3	5.0	7.079066	100.0	6307301.0	1.415813	Y
4	IC 140-87130/4	50.0	72.764958	100.0	6455349.0	1.455299	Y
5	IC 140-87130/5	400.0	572.862857	100.0	6672003.0	1.432157	Y
6	IC 140-87130/6	2000.0	3111.506535	100.0	6975966.0	1.555753	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

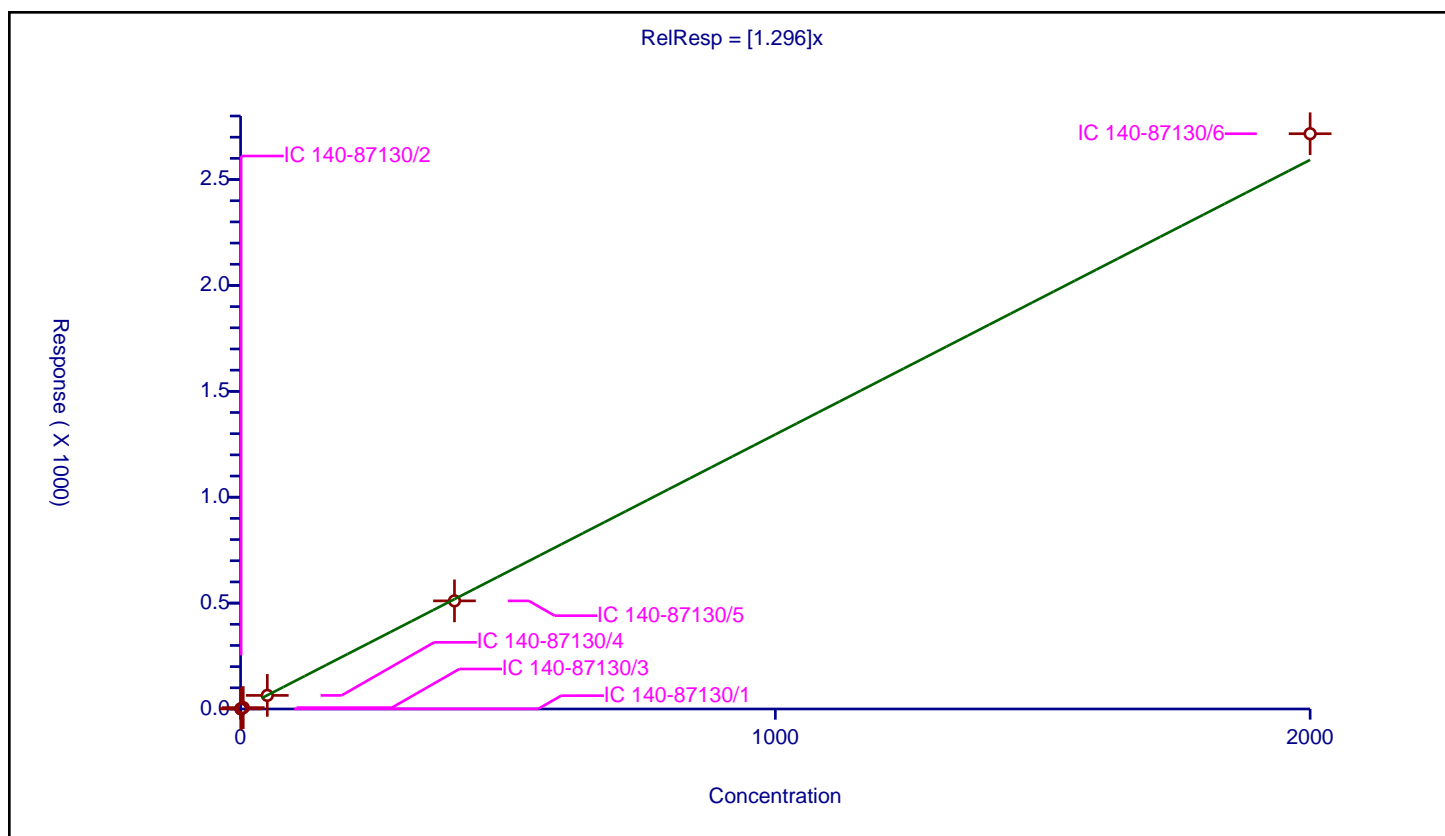
Curve Coefficients

Intercept: 0
Slope: 1.296

Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.626074	100.0	6938320.0	1.252147	Y
2	IC 140-87130/2	1.0	1.317791	100.0	6240748.0	1.317791	Y
3	IC 140-87130/3	5.0	6.449113	100.0	6307301.0	1.289823	Y
4	IC 140-87130/4	50.0	64.202292	100.0	6455349.0	1.284046	Y
5	IC 140-87130/5	400.0	510.565253	100.0	6672003.0	1.276413	Y
6	IC 140-87130/6	2000.0	2716.396066	100.0	6975966.0	1.358198	Y



Calibration

/ PCB-122

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

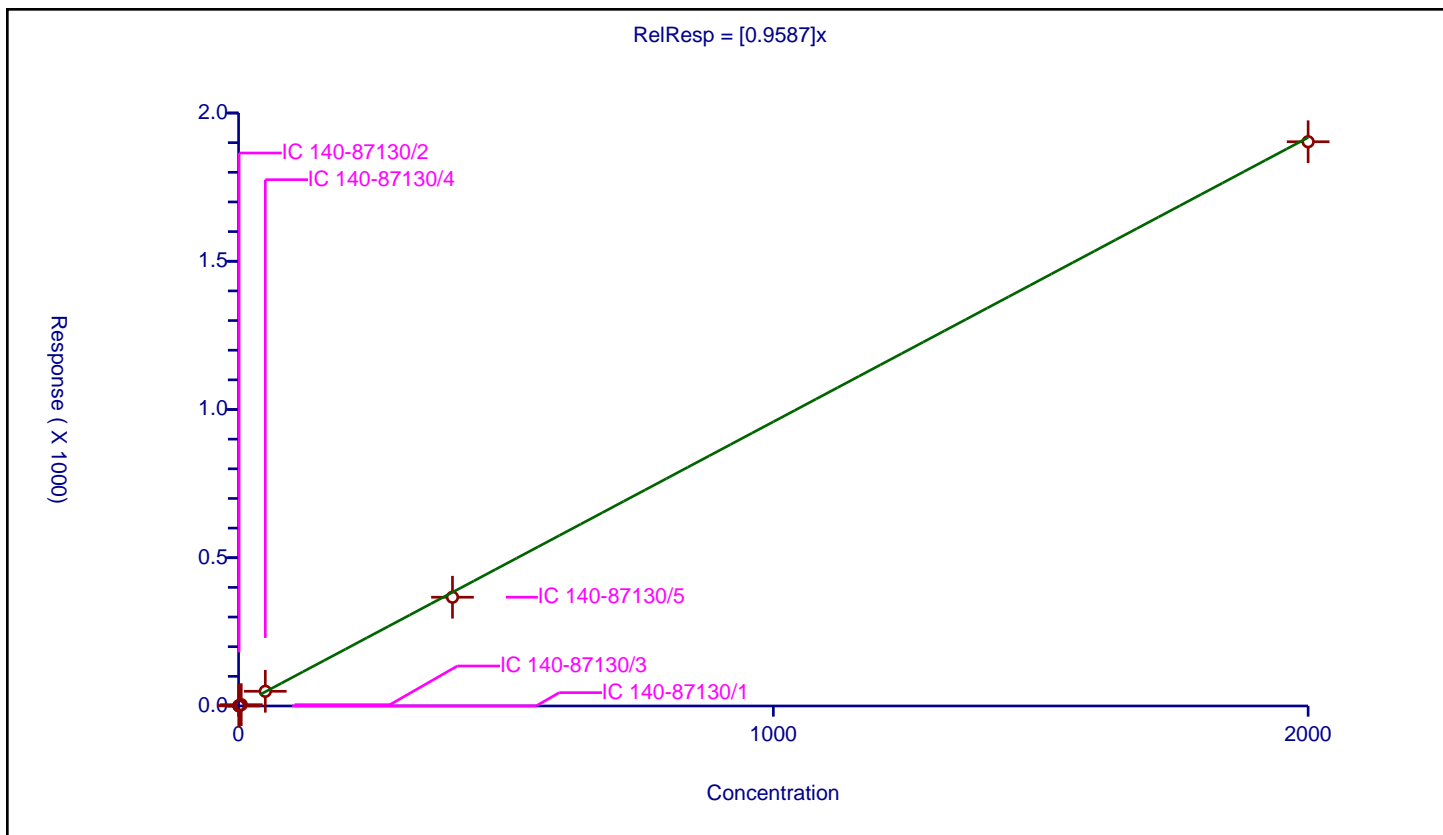
Curve Coefficients

Intercept: 0
 Slope: 0.9587

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.477126	100.0	10371480.0	0.954251	Y
2	IC 140-87130/2	1.0	1.043538	100.0	9073751.0	1.043538	Y
3	IC 140-87130/3	5.0	4.470647	100.0	9321962.0	0.894129	Y
4	IC 140-87130/4	50.0	49.566839	100.0	9501201.0	0.991337	Y
5	IC 140-87130/5	400.0	366.864546	100.0	10377703.0	0.917161	Y
6	IC 140-87130/6	2000.0	1903.10055	100.0	11406816.0	0.95155	Y



Calibration

/ PCB-123

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

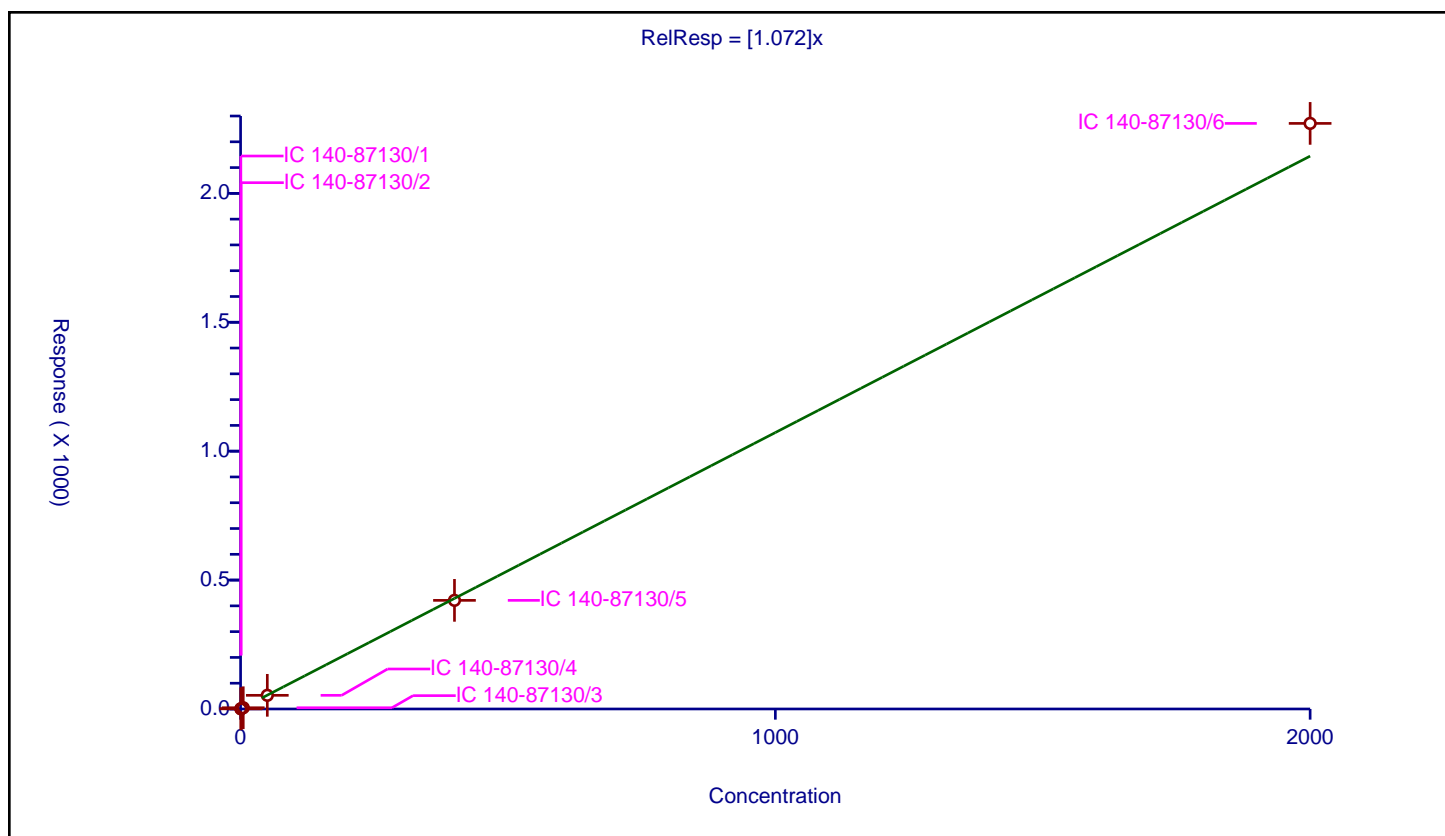
Curve Coefficients

Intercept: 0
 Slope: 1.072

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.542661	100.0	10371480.0	1.085322	Y
2	IC 140-87130/2	1.0	1.145469	100.0	9073751.0	1.145469	Y
3	IC 140-87130/3	5.0	4.769908	100.0	9321962.0	0.953982	Y
4	IC 140-87130/4	50.0	52.982691	100.0	9501201.0	1.059654	Y
5	IC 140-87130/5	400.0	421.35196	100.0	10377703.0	1.05338	Y
6	IC 140-87130/6	2000.0	2271.302132	100.0	11406816.0	1.135651	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

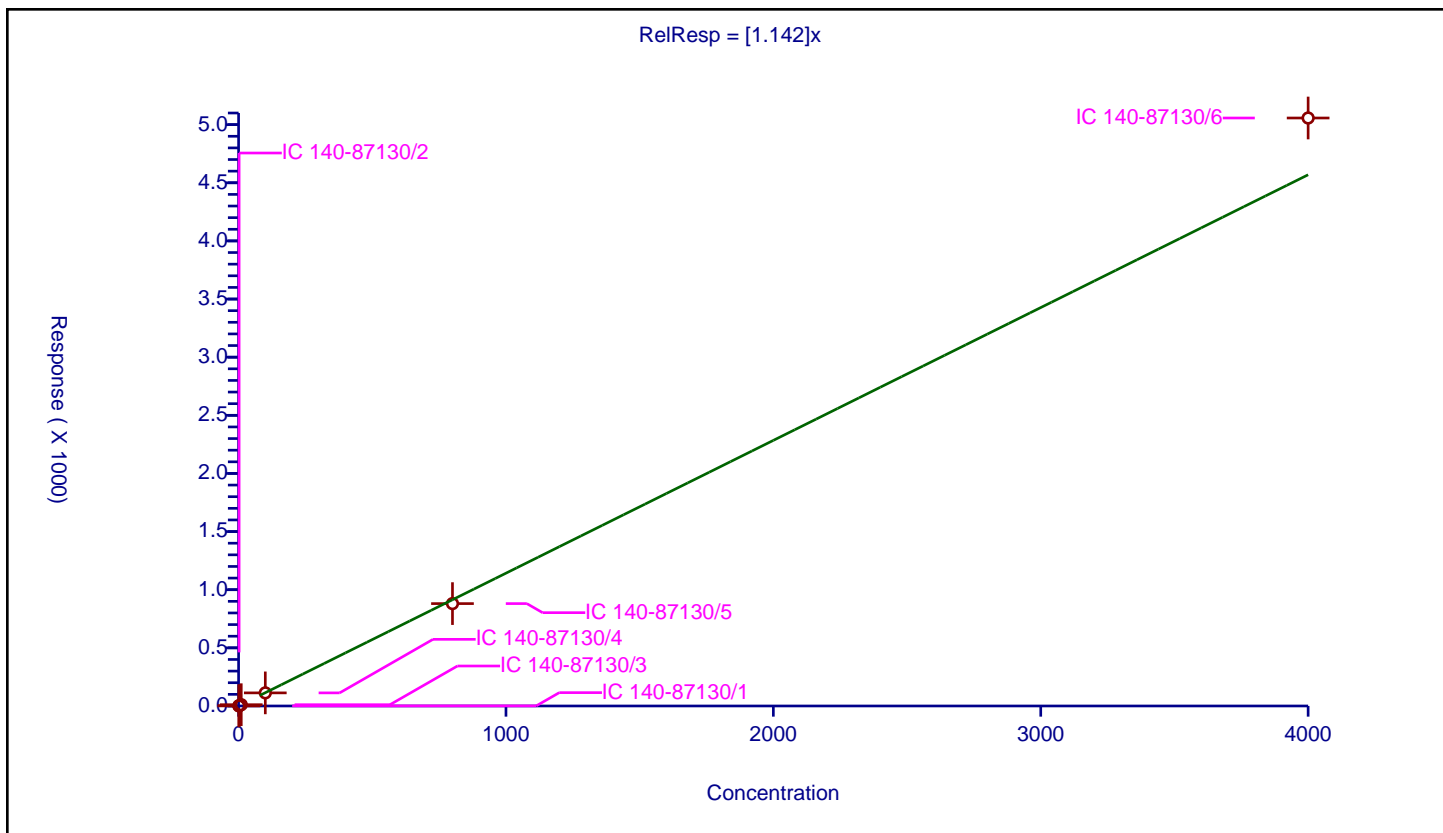
Curve Coefficients

Intercept: 0
Slope: 1.142

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.102851	100.0	10371480.0	1.102851	Y
2	IC 140-87130/2	2.0	2.298608	100.0	9073751.0	1.149304	Y
3	IC 140-87130/3	10.0	11.092751	100.0	9321962.0	1.109275	Y
4	IC 140-87130/4	100.0	112.681302	100.0	9501201.0	1.126813	Y
5	IC 140-87130/5	800.0	880.500569	100.0	10377703.0	1.100626	Y
6	IC 140-87130/6	4000.0	5057.136698	100.0	11406816.0	1.264284	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

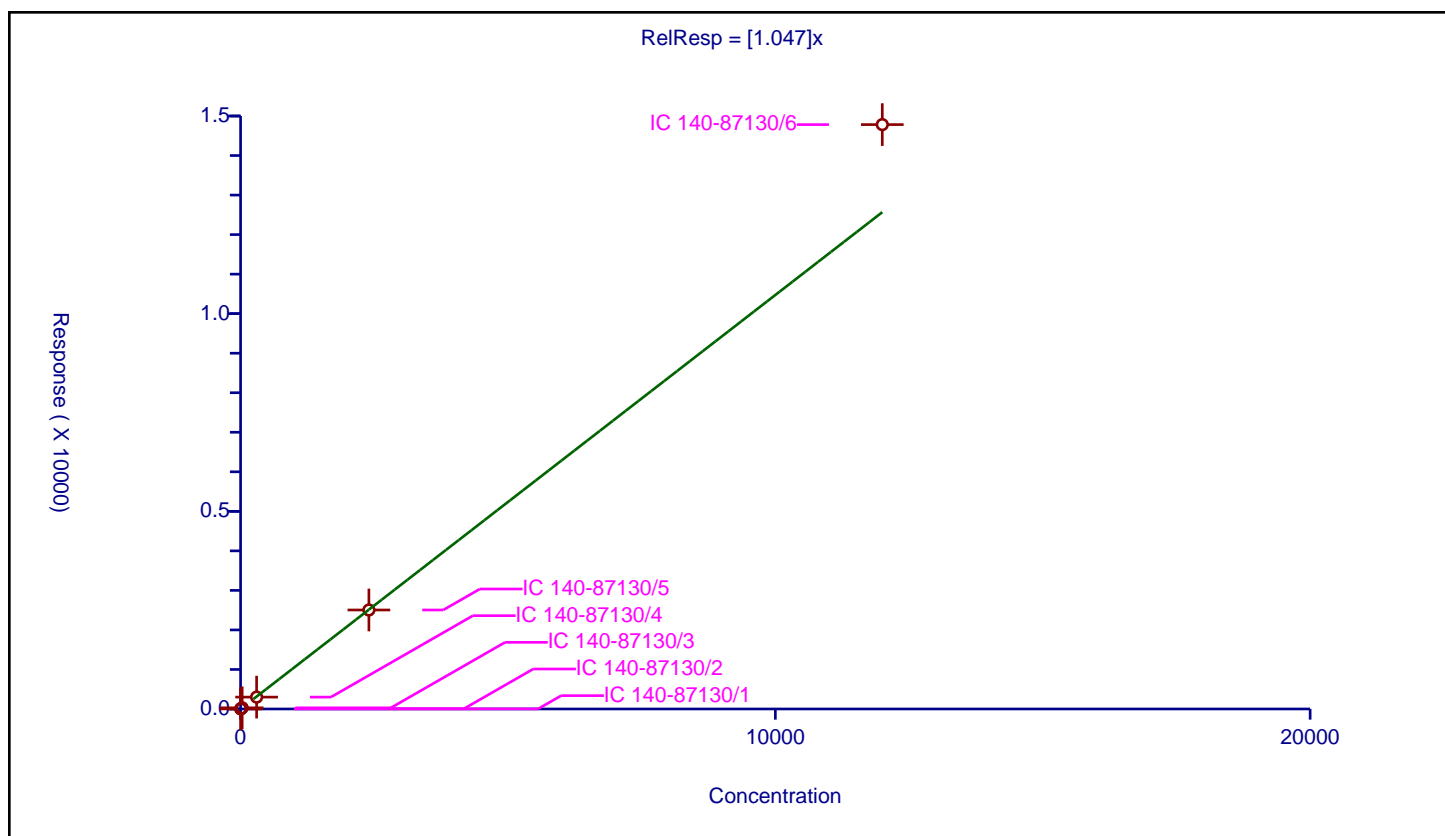
Curve Coefficients

Intercept: 0
Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

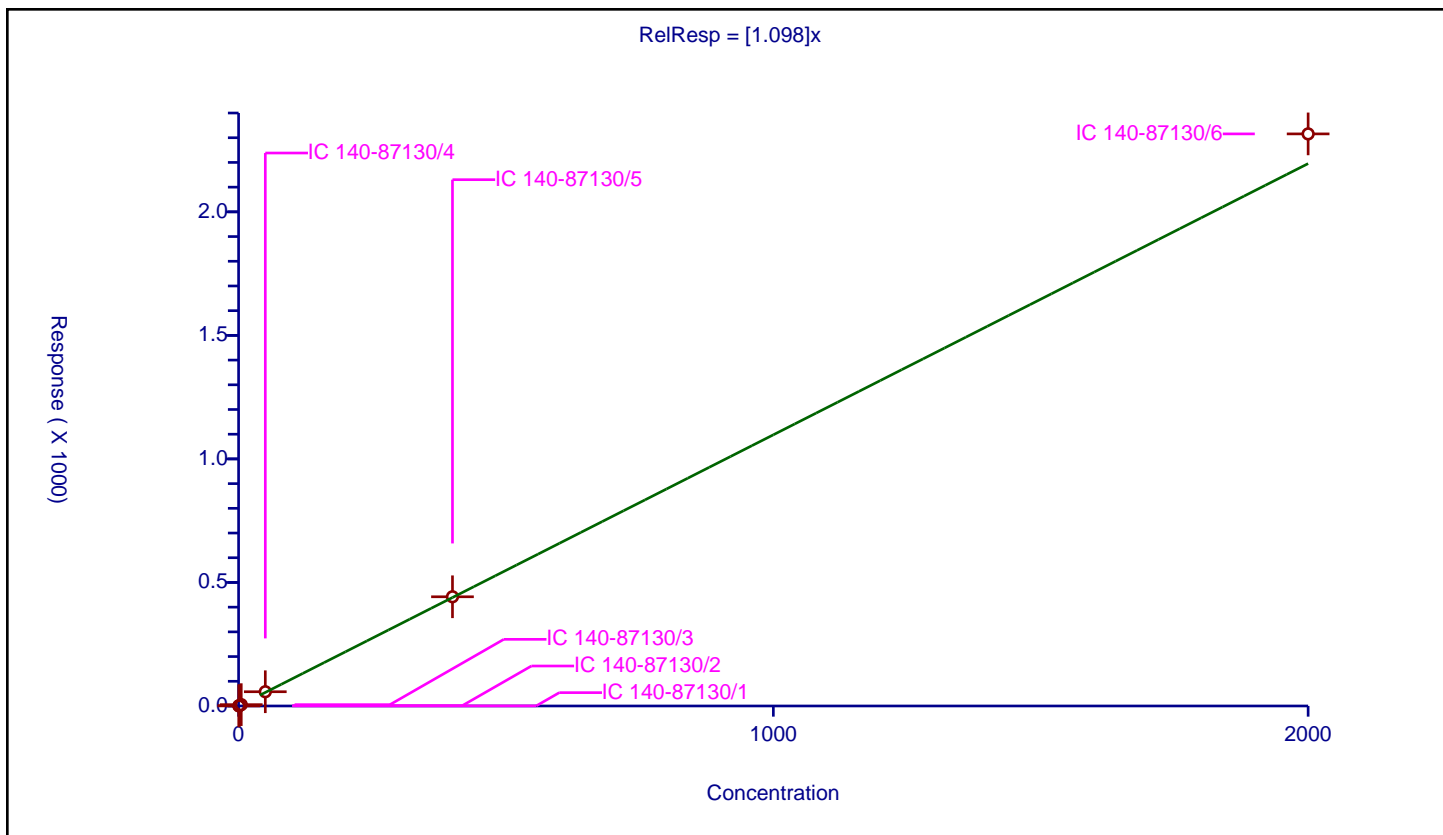
Curve Coefficients

Intercept: 0
Slope: 1.098

Error Coefficients

Relative Standard Deviation: 5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.497752	100.0	9958778.0	0.995504	Y
2	IC 140-87130/2	1.0	1.094031	100.0	8756063.0	1.094031	Y
3	IC 140-87130/3	5.0	5.401953	100.0	8945635.0	1.080391	Y
4	IC 140-87130/4	50.0	57.642157	100.0	9388684.0	1.152843	Y
5	IC 140-87130/5	400.0	442.04375	100.0	10103302.0	1.105109	Y
6	IC 140-87130/6	2000.0	2315.466548	100.0	11098540.0	1.157733	Y



Calibration

/ PCB-127

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

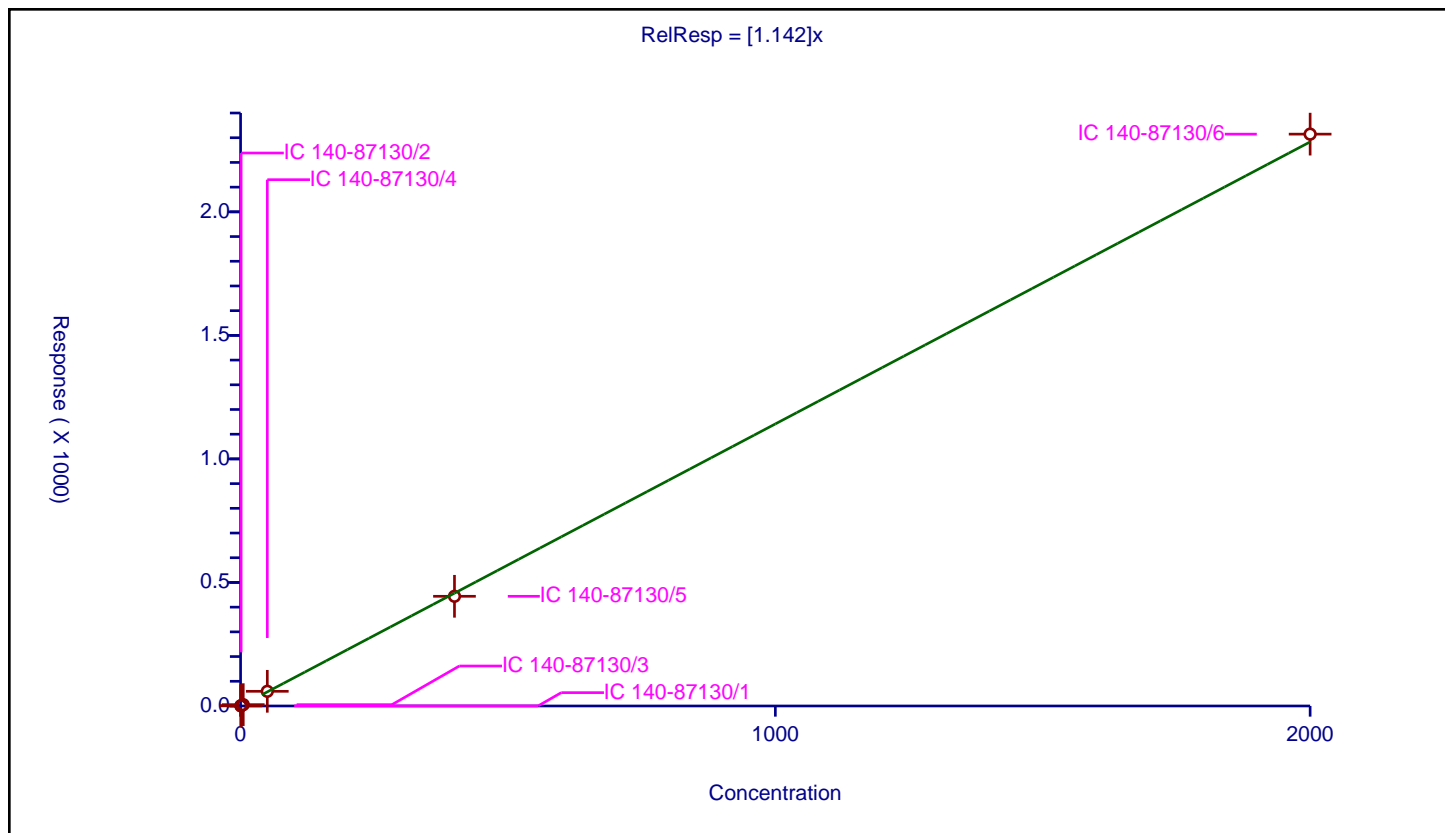
Curve Coefficients

Intercept: 0
 Slope: 1.142

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.554569	100.0	10371480.0	1.109138	Y
2	IC 140-87130/2	1.0	1.199857	100.0	9073751.0	1.199857	Y
3	IC 140-87130/3	5.0	5.427334	100.0	9321962.0	1.085467	Y
4	IC 140-87130/4	50.0	59.390029	100.0	9501201.0	1.187801	Y
5	IC 140-87130/5	400.0	443.991517	100.0	10377703.0	1.109979	Y
6	IC 140-87130/6	2000.0	2314.503206	100.0	11406816.0	1.157252	Y



Calibration

/ PCB-128

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

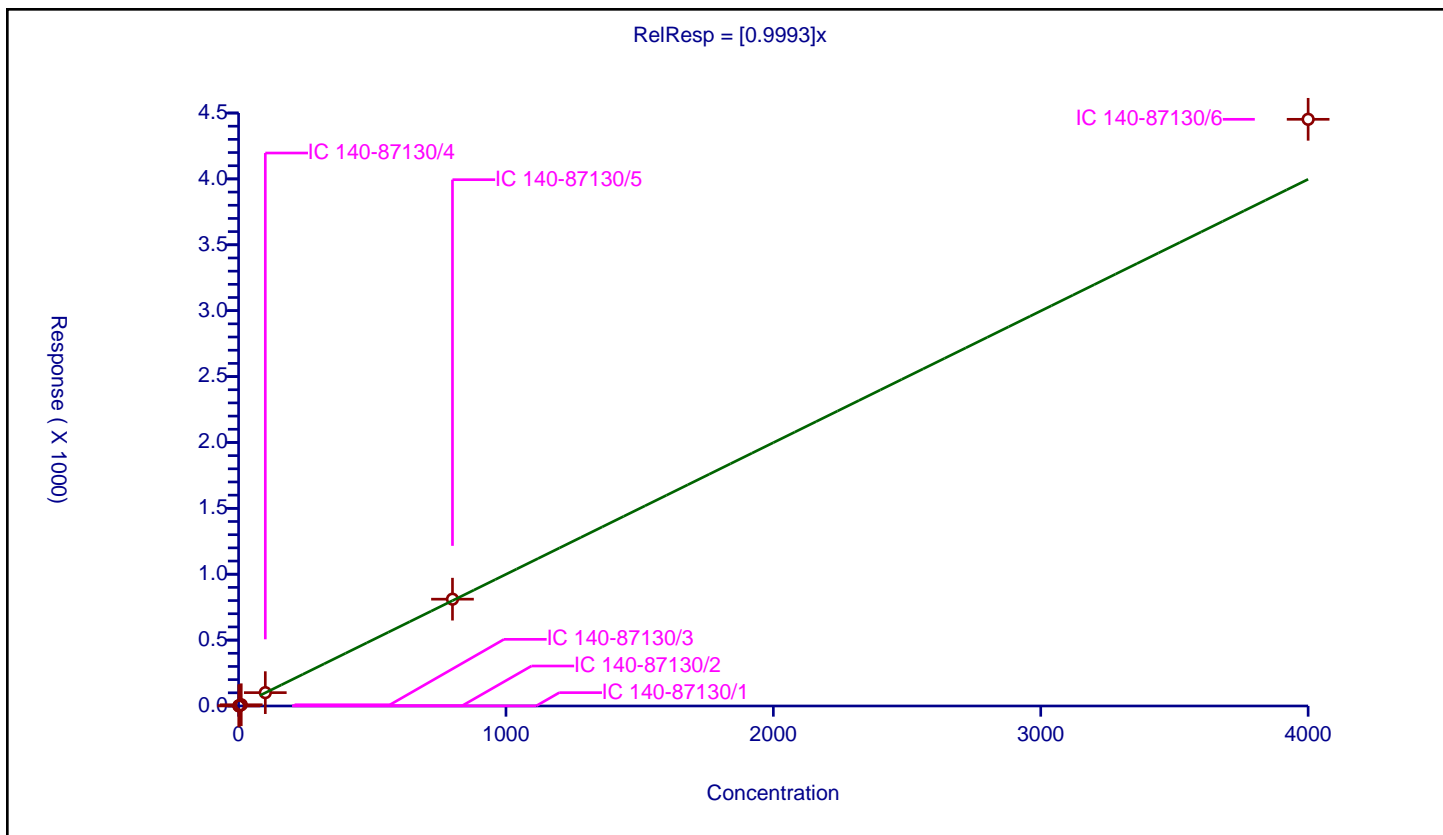
Curve Coefficients

Intercept: 0
 Slope: 0.9993

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.978717	200.0	17145311.0	0.978717	Y
2	IC 140-87130/2	2.0	1.885788	200.0	16075823.0	0.942894	Y
3	IC 140-87130/3	10.0	9.351869	200.0	15994835.0	0.935187	Y
4	IC 140-87130/4	100.0	101.248978	200.0	16048883.0	1.01249	Y
5	IC 140-87130/5	800.0	810.572802	200.0	16797326.0	1.013216	Y
6	IC 140-87130/6	4000.0	4452.331241	200.0	18003846.0	1.113083	Y



Calibration

/ PCB-128/166

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

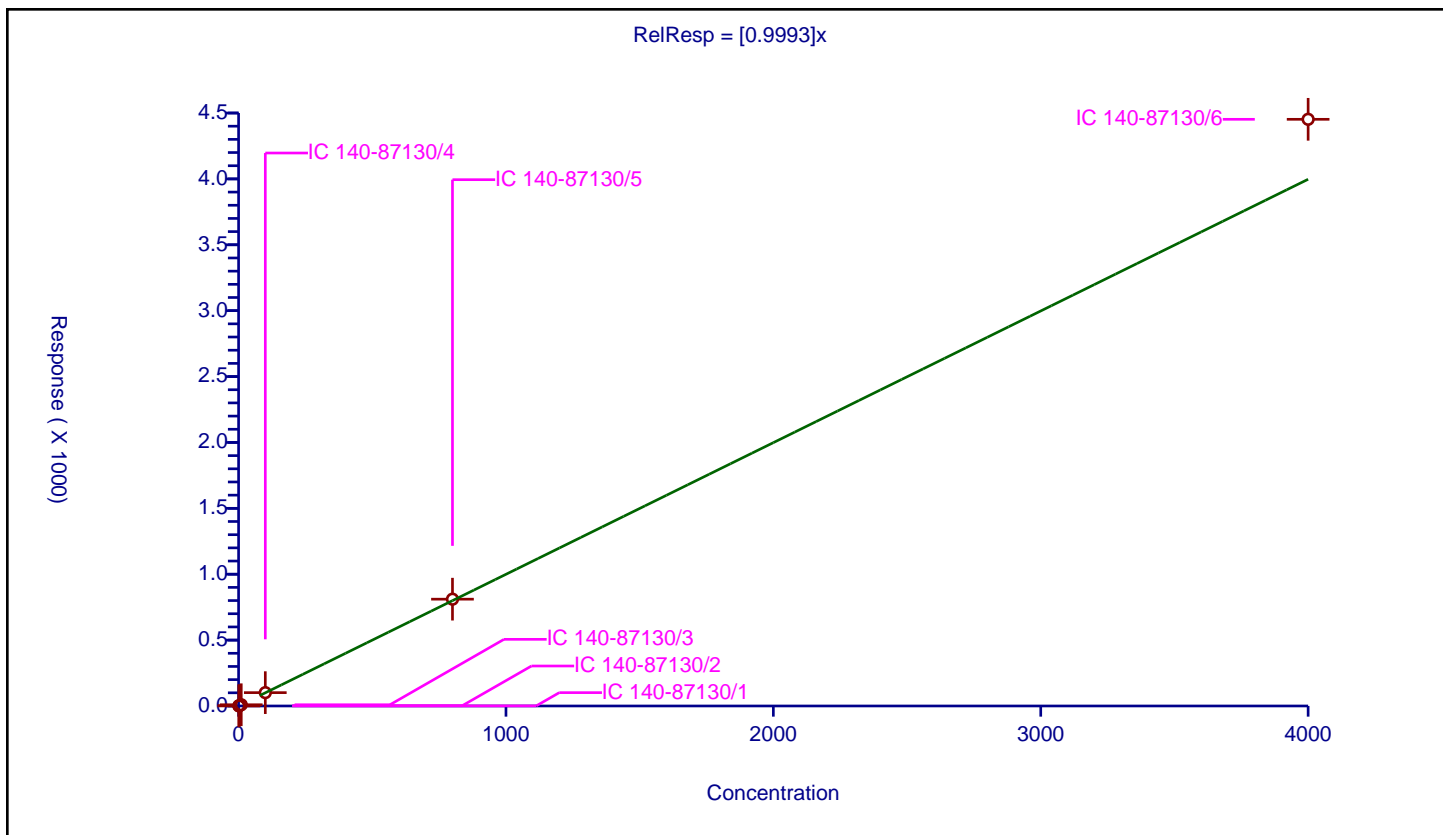
Curve Coefficients

Intercept: 0
 Slope: 0.9993

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.978717	200.0	17145311.0	0.978717	Y
2	IC 140-87130/2	2.0	1.885788	200.0	16075823.0	0.942894	Y
3	IC 140-87130/3	10.0	9.351869	200.0	15994835.0	0.935187	Y
4	IC 140-87130/4	100.0	101.248978	200.0	16048883.0	1.01249	Y
5	IC 140-87130/5	800.0	810.572802	200.0	16797326.0	1.013216	Y
6	IC 140-87130/6	4000.0	4452.331241	200.0	18003846.0	1.113083	Y



Calibration

/ PCB-129

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

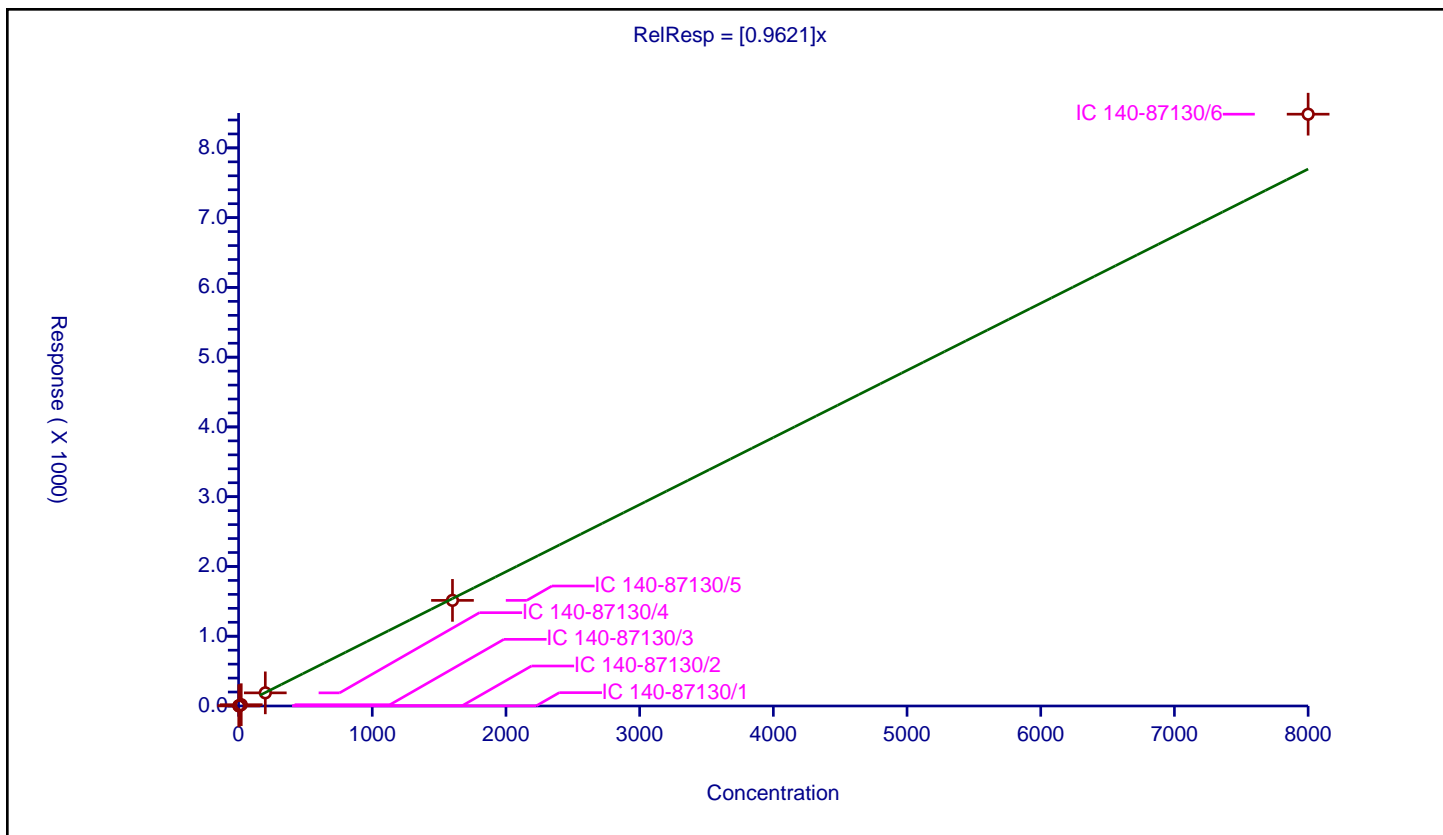
Curve Coefficients

Intercept: 0
 Slope: 0.9621

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



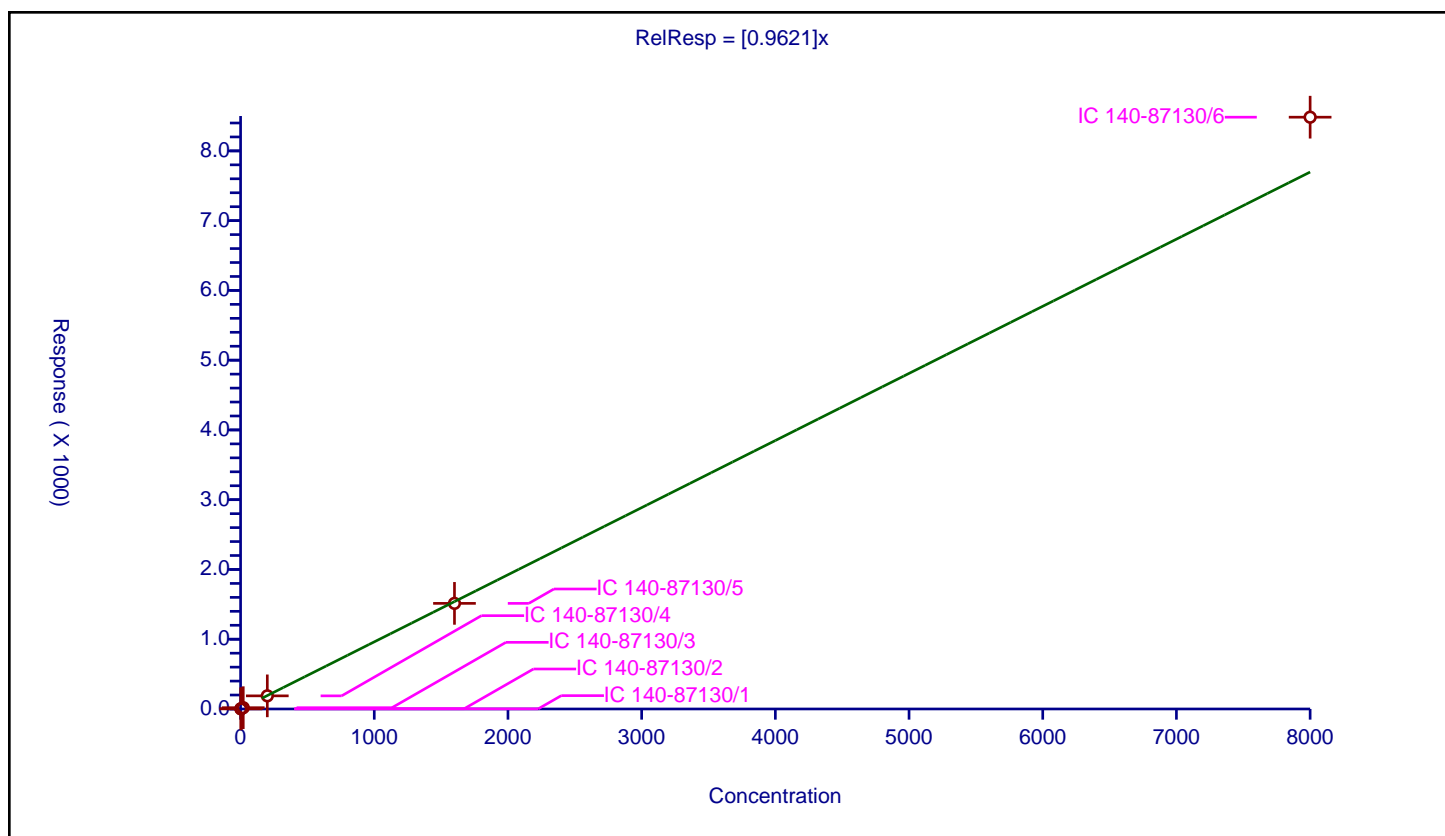
/ PCB-129/138/160/163

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

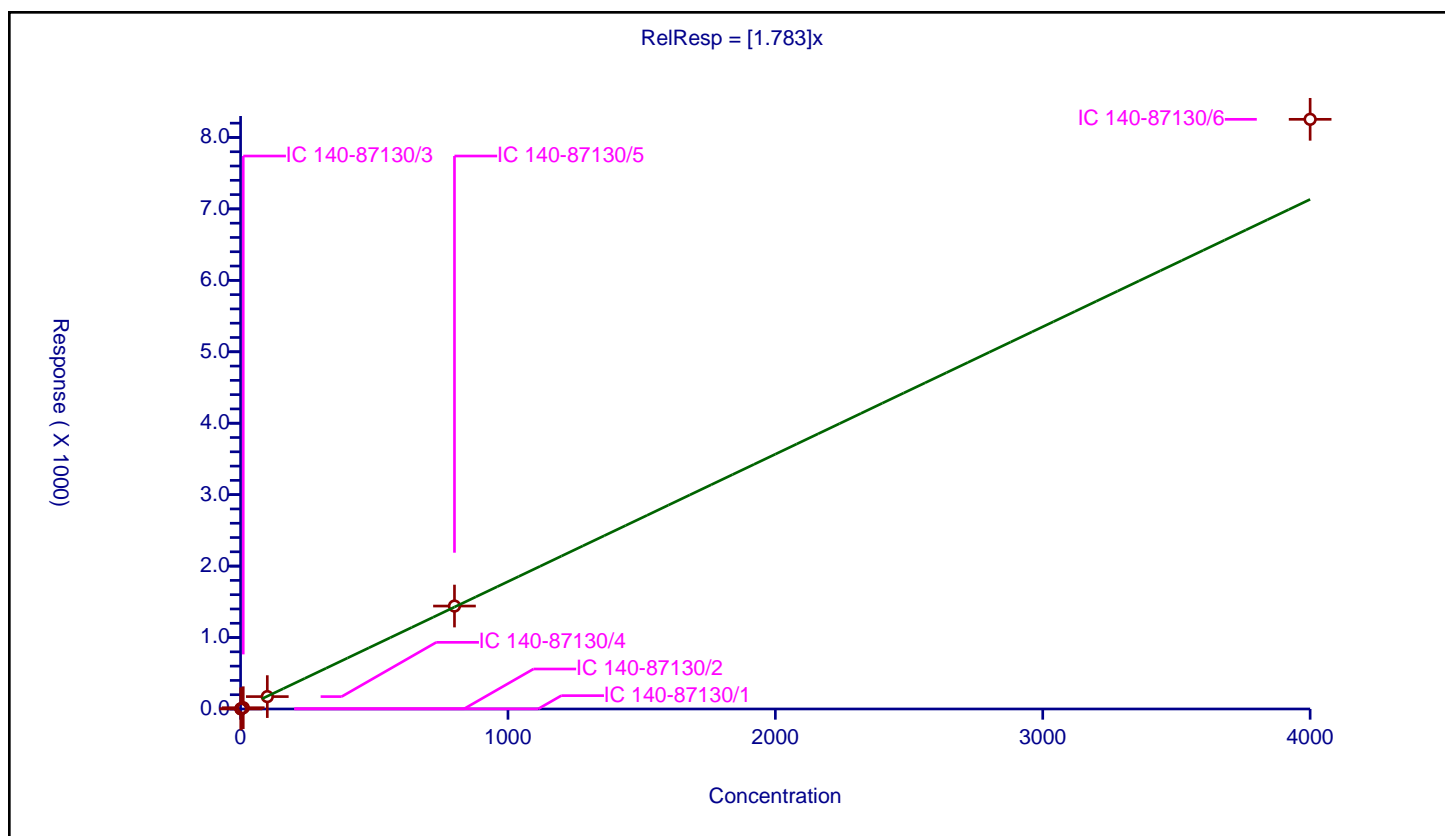
Curve Coefficients

Intercept: 0
Slope: 1.783

Error Coefficients

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.645773	100.0	5904521.0	1.645773	Y
2	IC 140-87130/2	2.0	3.337329	100.0	5442766.0	1.668664	Y
3	IC 140-87130/3	10.0	17.87178	100.0	5279032.0	1.787178	Y
4	IC 140-87130/4	100.0	173.311548	100.0	5474214.0	1.733115	Y
5	IC 140-87130/5	800.0	1441.118879	100.0	5561618.0	1.801399	Y
6	IC 140-87130/6	4000.0	8253.622121	100.0	5672202.0	2.063406	Y



Calibration

/ PCB-130

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

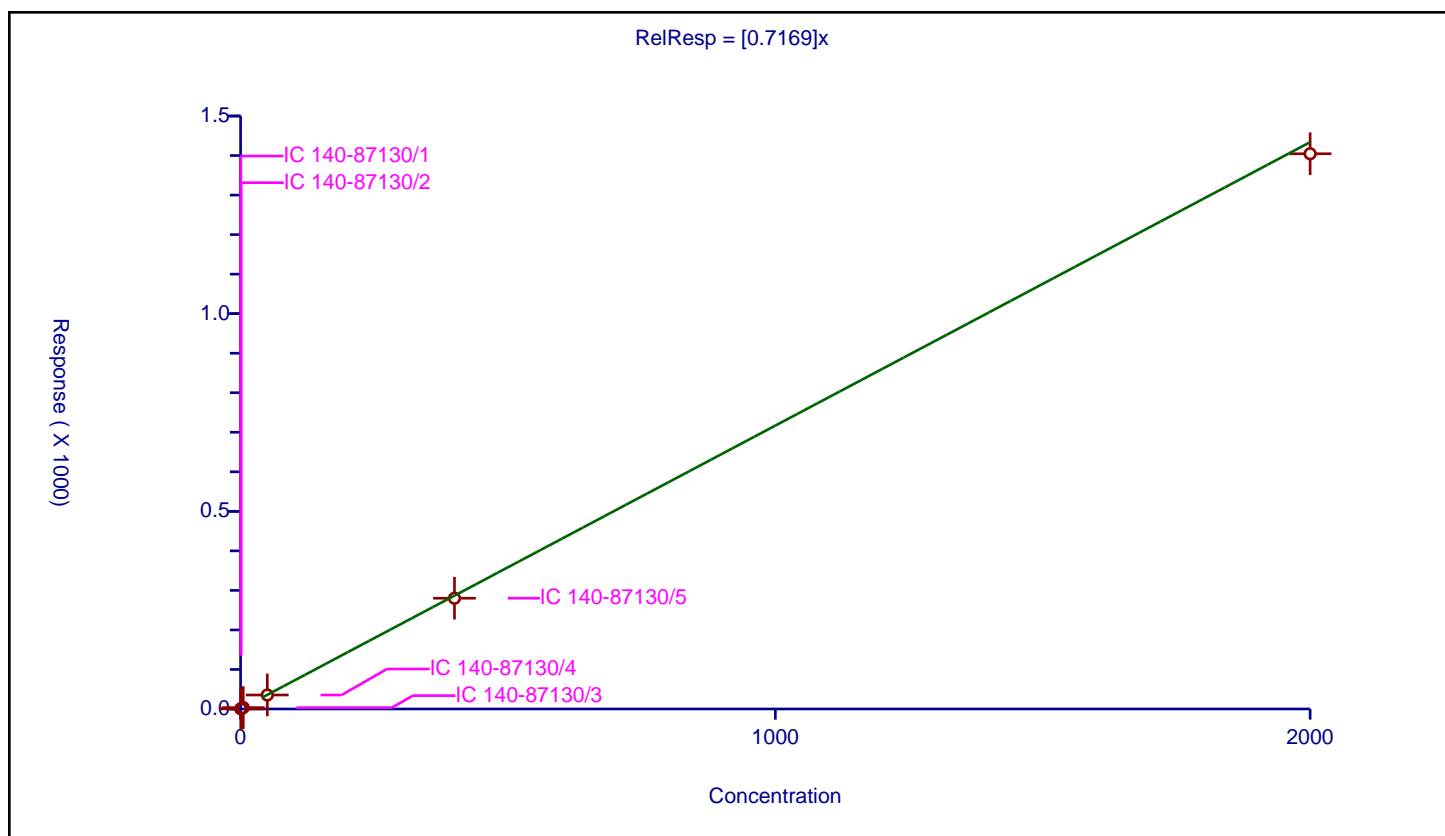
Curve Coefficients

Intercept: 0
 Slope: 0.7169

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.374983	200.0	17145311.0	0.749966	Y
2	IC 140-87130/2	1.0	0.742768	200.0	16075823.0	0.742768	Y
3	IC 140-87130/3	5.0	3.49154	200.0	15994835.0	0.698308	Y
4	IC 140-87130/4	50.0	35.374985	200.0	16048883.0	0.7075	Y
5	IC 140-87130/5	400.0	280.165569	200.0	16797326.0	0.700414	Y
6	IC 140-87130/6	2000.0	1404.539452	200.0	18003846.0	0.70227	Y



Calibration

/ PCB-131

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

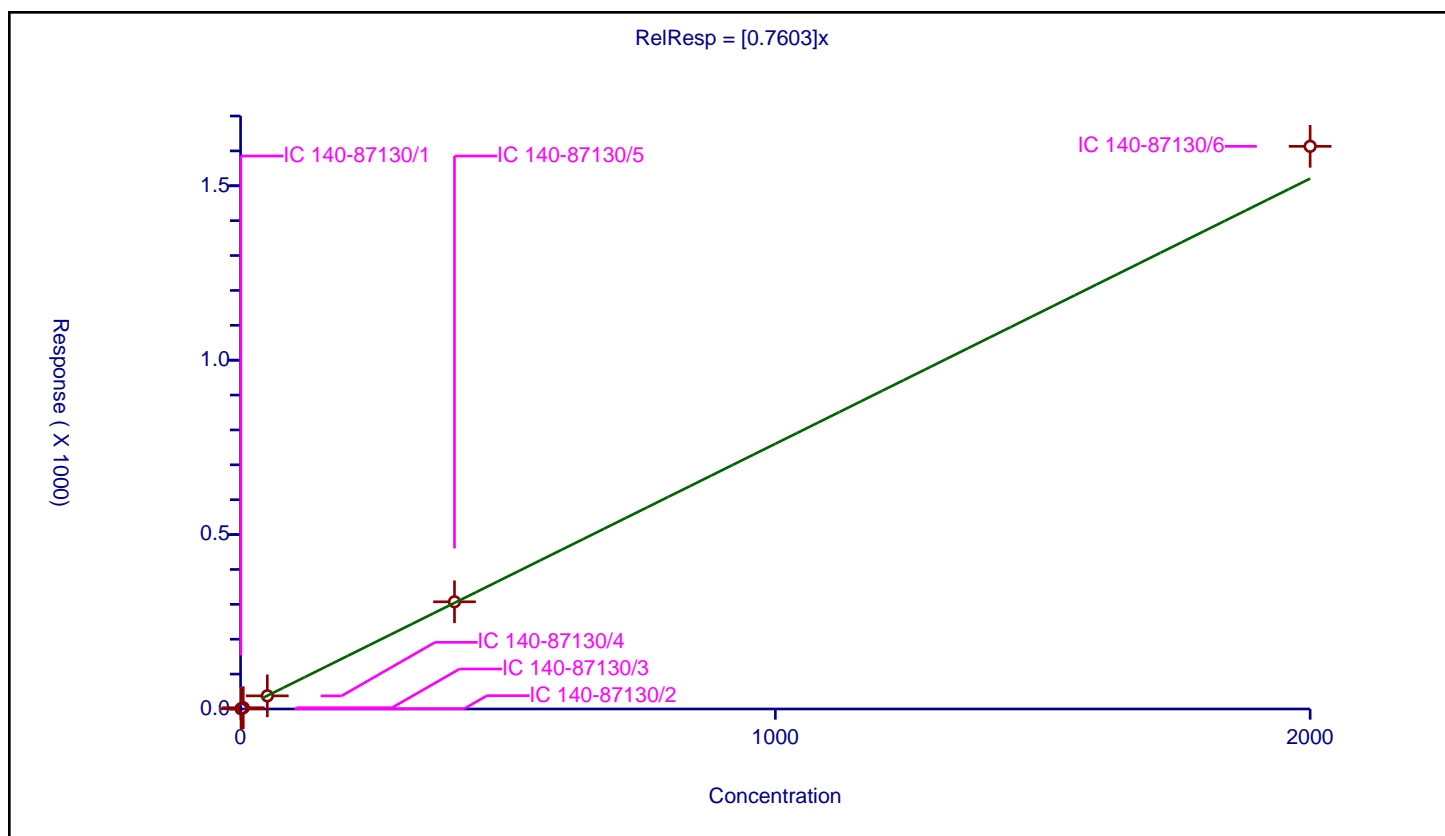
Curve Coefficients

Intercept: 0
 Slope: 0.7603

Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.495879	200.0	17145311.0	0.991758	N
2	IC 140-87130/2	1.0	0.750033	200.0	16075823.0	0.750033	Y
3	IC 140-87130/3	5.0	3.621982	200.0	15994835.0	0.724396	Y
4	IC 140-87130/4	50.0	37.621659	200.0	16048883.0	0.752433	Y
5	IC 140-87130/5	400.0	307.270824	200.0	16797326.0	0.768177	Y
6	IC 140-87130/6	2000.0	1613.043169	200.0	18003846.0	0.806522	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

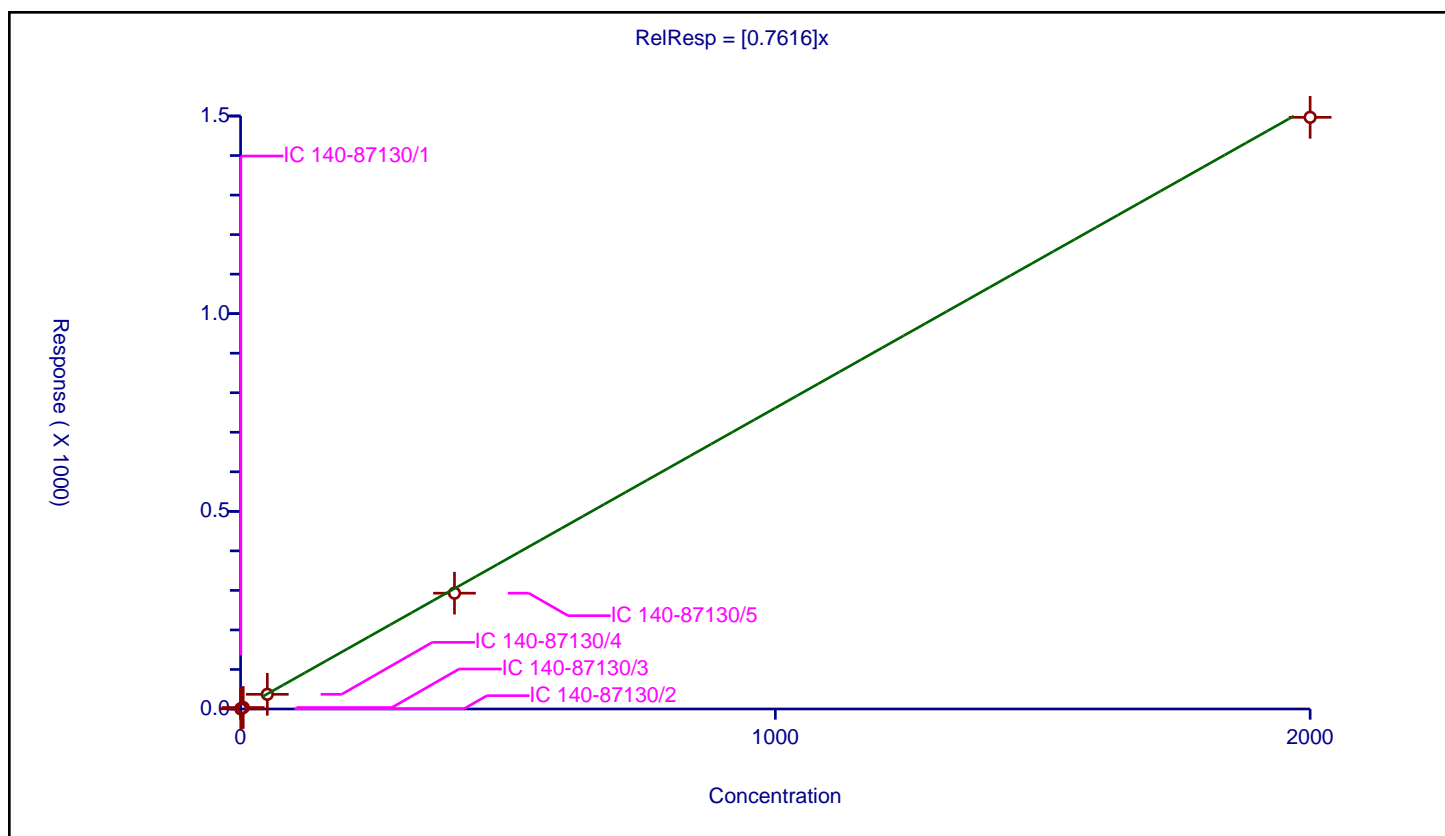
Curve Coefficients

Intercept: 0
Slope: 0.7616

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.426916	200.0	17145311.0	0.853831	Y
2	IC 140-87130/2	1.0	0.740528	200.0	16075823.0	0.740528	Y
3	IC 140-87130/3	5.0	3.758438	200.0	15994835.0	0.751688	Y
4	IC 140-87130/4	50.0	37.126459	200.0	16048883.0	0.742529	Y
5	IC 140-87130/5	400.0	292.951104	200.0	16797326.0	0.732378	Y
6	IC 140-87130/6	2000.0	1496.707792	200.0	18003846.0	0.748354	Y



Calibration

/ PCB-133

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

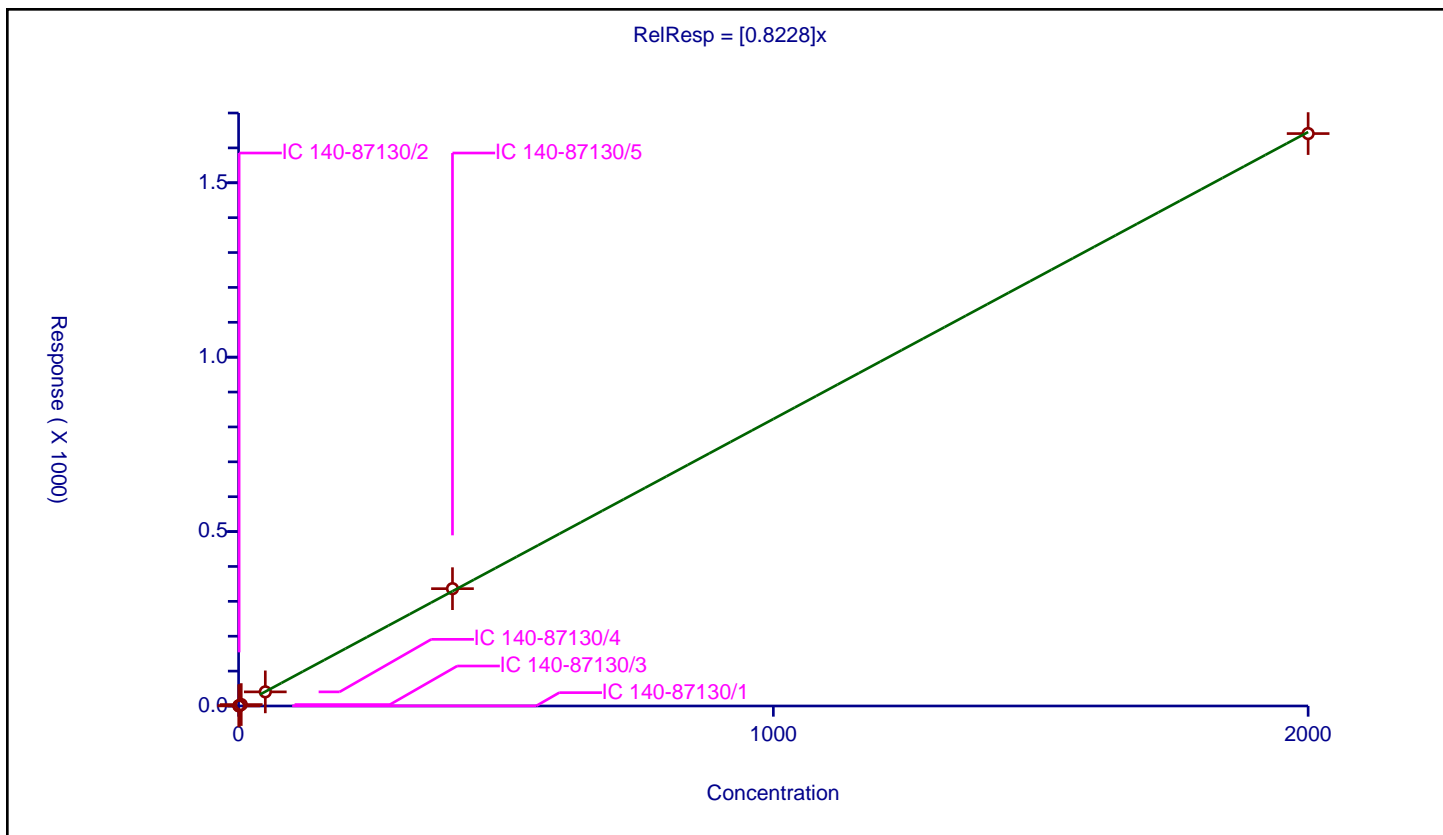
Curve Coefficients

Intercept: 0
 Slope: 0.8228

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.377678	200.0	17145311.0	0.755355	Y
2	IC 140-87130/2	1.0	0.890231	200.0	16075823.0	0.890231	Y
3	IC 140-87130/3	5.0	4.102987	200.0	15994835.0	0.820597	Y
4	IC 140-87130/4	50.0	40.451314	200.0	16048883.0	0.809026	Y
5	IC 140-87130/5	400.0	336.328449	200.0	16797326.0	0.840821	Y
6	IC 140-87130/6	2000.0	1641.094064	200.0	18003846.0	0.820547	Y



Calibration

/ PCB-134

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

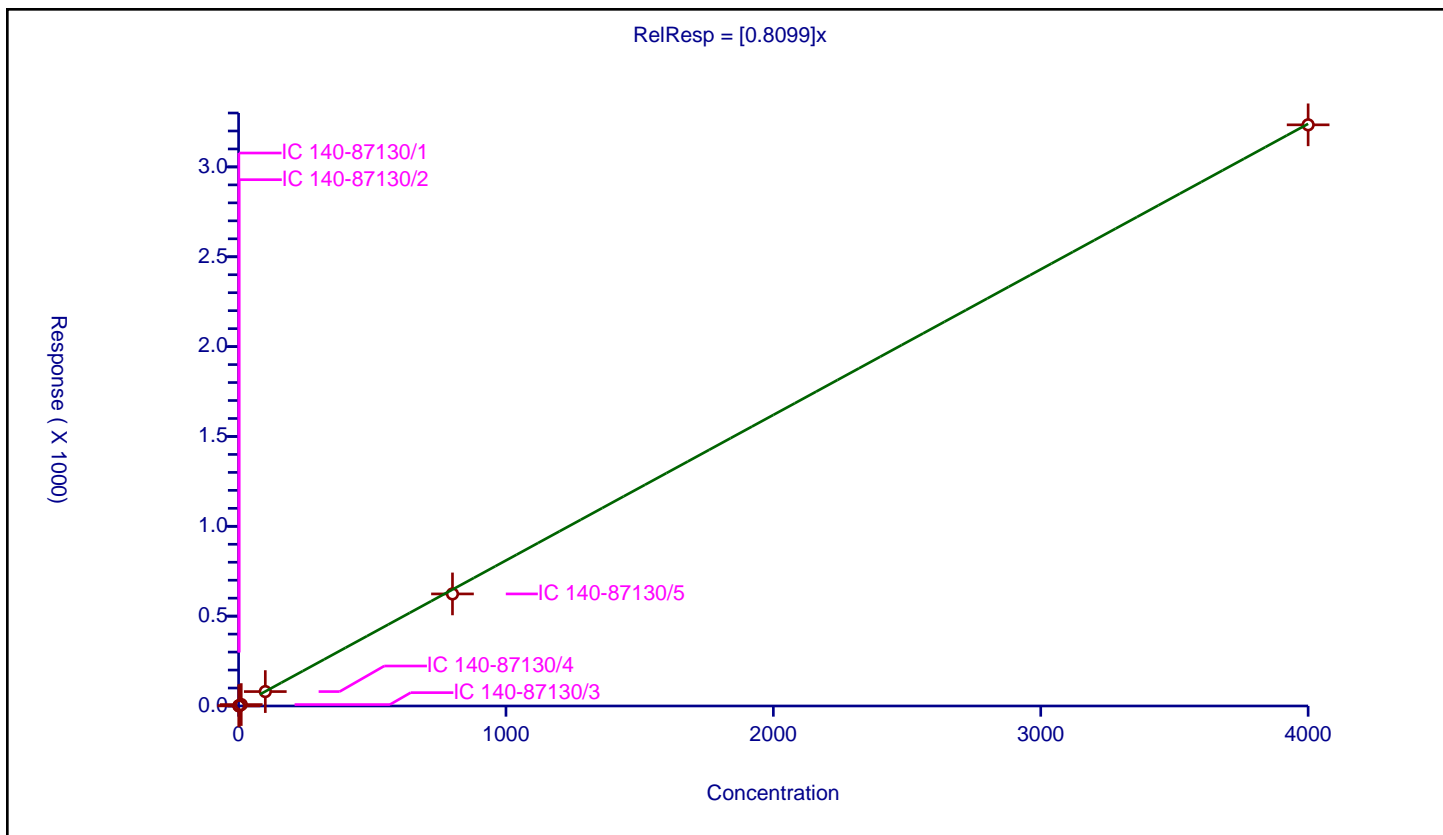
Curve Coefficients

Intercept: 0
 Slope: 0.8099

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.853761	200.0	17145311.0	0.853761	Y
2	IC 140-87130/2	2.0	1.628296	200.0	16075823.0	0.814148	Y
3	IC 140-87130/3	10.0	8.010286	200.0	15994835.0	0.801029	Y
4	IC 140-87130/4	100.0	80.260988	200.0	16048883.0	0.80261	Y
5	IC 140-87130/5	800.0	623.646919	200.0	16797326.0	0.779559	Y
6	IC 140-87130/6	4000.0	3234.214523	200.0	18003846.0	0.808554	Y



Calibration

/ PCB-134/143

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

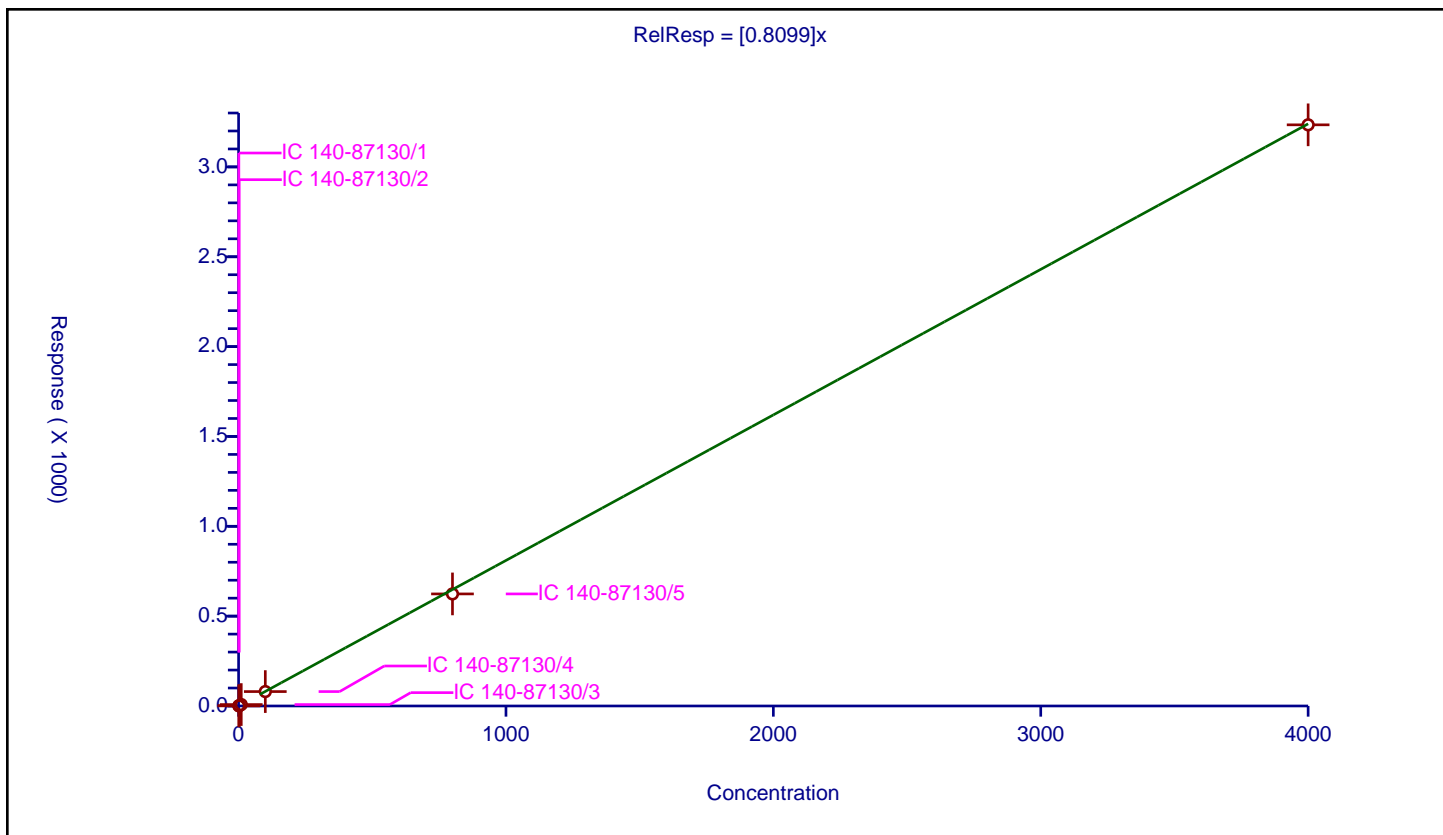
Curve Coefficients

Intercept: 0
 Slope: 0.8099

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.853761	200.0	17145311.0	0.853761	Y
2	IC 140-87130/2	2.0	1.628296	200.0	16075823.0	0.814148	Y
3	IC 140-87130/3	10.0	8.010286	200.0	15994835.0	0.801029	Y
4	IC 140-87130/4	100.0	80.260988	200.0	16048883.0	0.80261	Y
5	IC 140-87130/5	800.0	623.646919	200.0	16797326.0	0.779559	Y
6	IC 140-87130/6	4000.0	3234.214523	200.0	18003846.0	0.808554	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

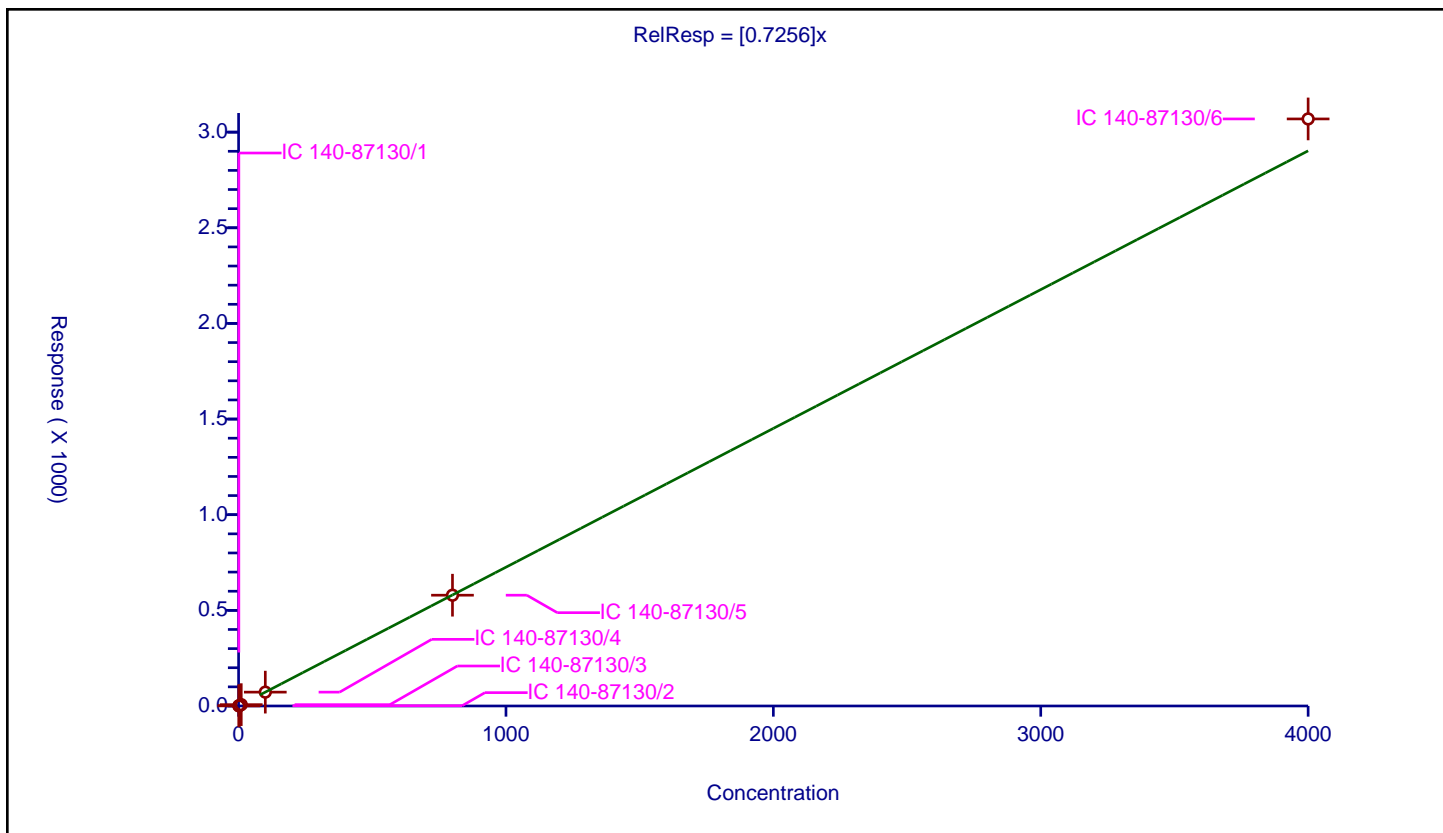
Curve Coefficients

Intercept: 0
Slope: 0.7256

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.728518	100.0	6307321.0	0.728518	Y
2	IC 140-87130/2	2.0	1.405889	100.0	5566942.0	0.702944	Y
3	IC 140-87130/3	10.0	7.063016	100.0	5708638.0	0.706302	Y
4	IC 140-87130/4	100.0	72.442307	100.0	5786925.0	0.724423	Y
5	IC 140-87130/5	800.0	579.168111	100.0	5892178.0	0.72396	Y
6	IC 140-87130/6	4000.0	3068.99001	100.0	6037909.0	0.767248	Y



Calibration

/ PCB-135/151

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

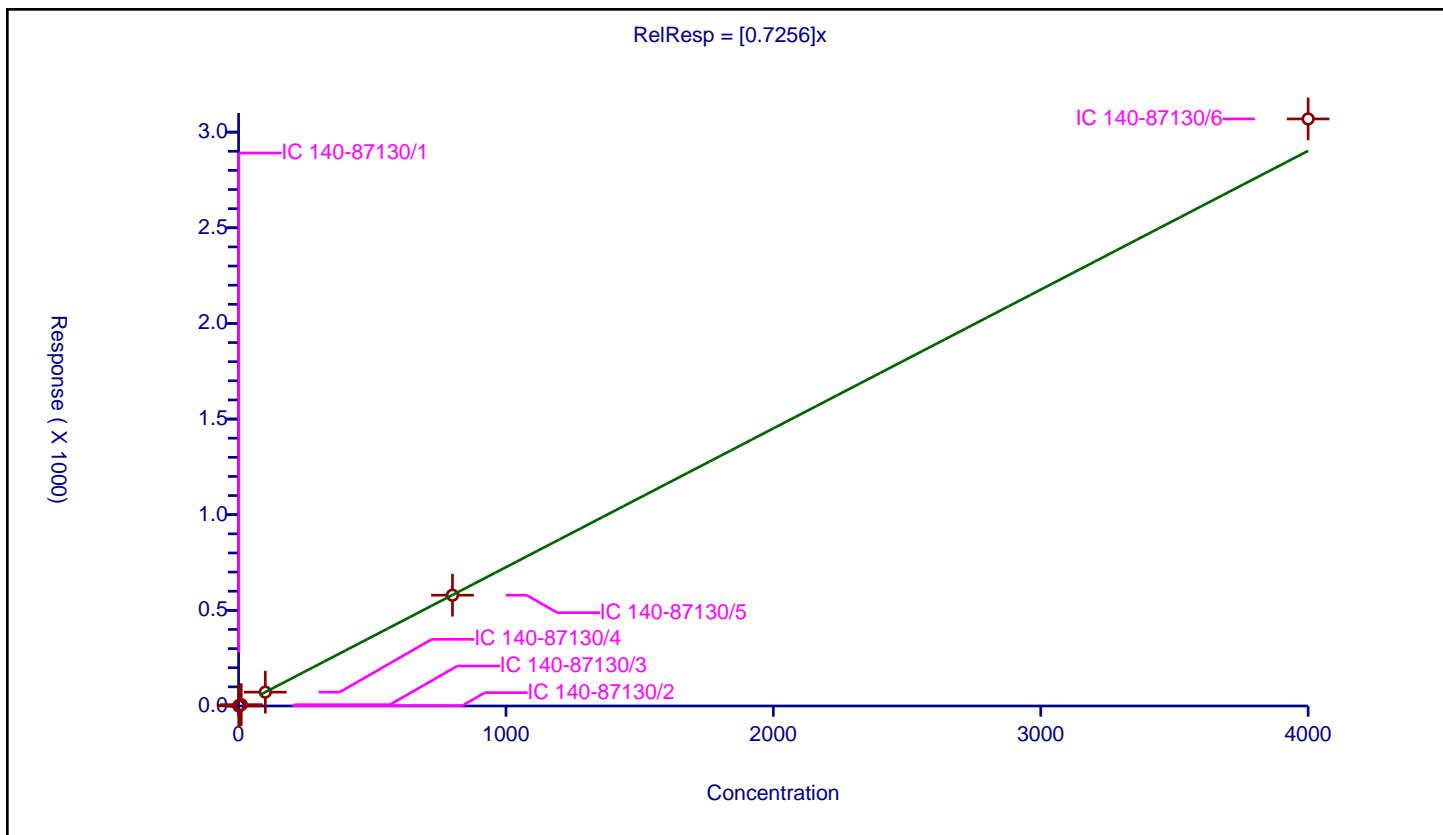
Curve Coefficients

Intercept: 0
 Slope: 0.7256

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.728518	100.0	6307321.0	0.728518	Y
2	IC 140-87130/2	2.0	1.405889	100.0	5566942.0	0.702944	Y
3	IC 140-87130/3	10.0	7.063016	100.0	5708638.0	0.706302	Y
4	IC 140-87130/4	100.0	72.442307	100.0	5786925.0	0.724423	Y
5	IC 140-87130/5	800.0	579.168111	100.0	5892178.0	0.72396	Y
6	IC 140-87130/6	4000.0	3068.99001	100.0	6037909.0	0.767248	Y



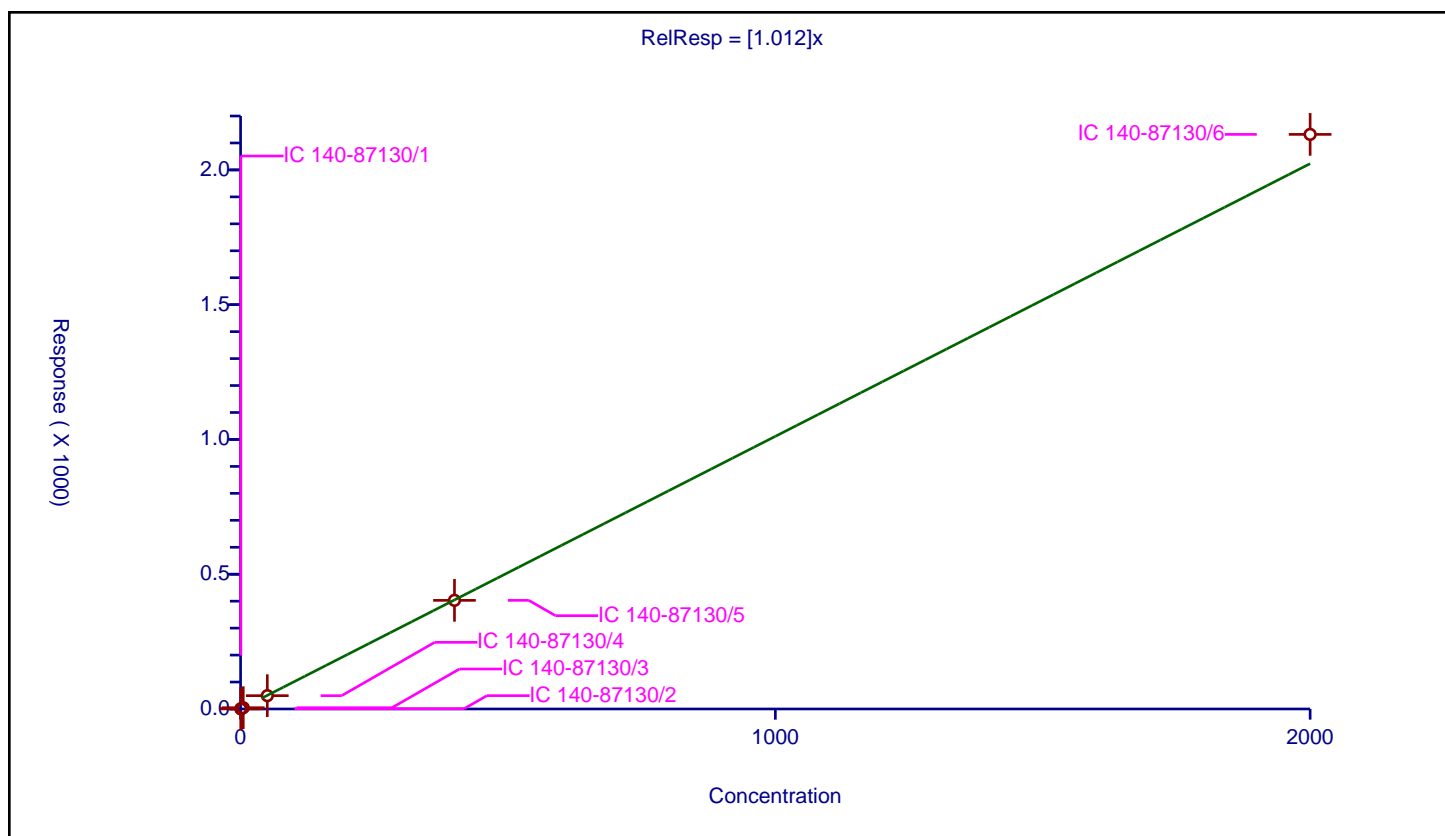
/ PCB-136

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.529337	100.0	6307321.0	1.058675	Y
2	IC 140-87130/2	1.0	1.000837	100.0	5566942.0	1.000837	Y
3	IC 140-87130/3	5.0	4.743653	100.0	5708638.0	0.948731	Y
4	IC 140-87130/4	50.0	49.401038	100.0	5786925.0	0.988021	Y
5	IC 140-87130/5	400.0	402.970667	100.0	5892178.0	1.007427	Y
6	IC 140-87130/6	2000.0	2131.795974	100.0	6037909.0	1.065898	Y



Calibration

/ PCB-137

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

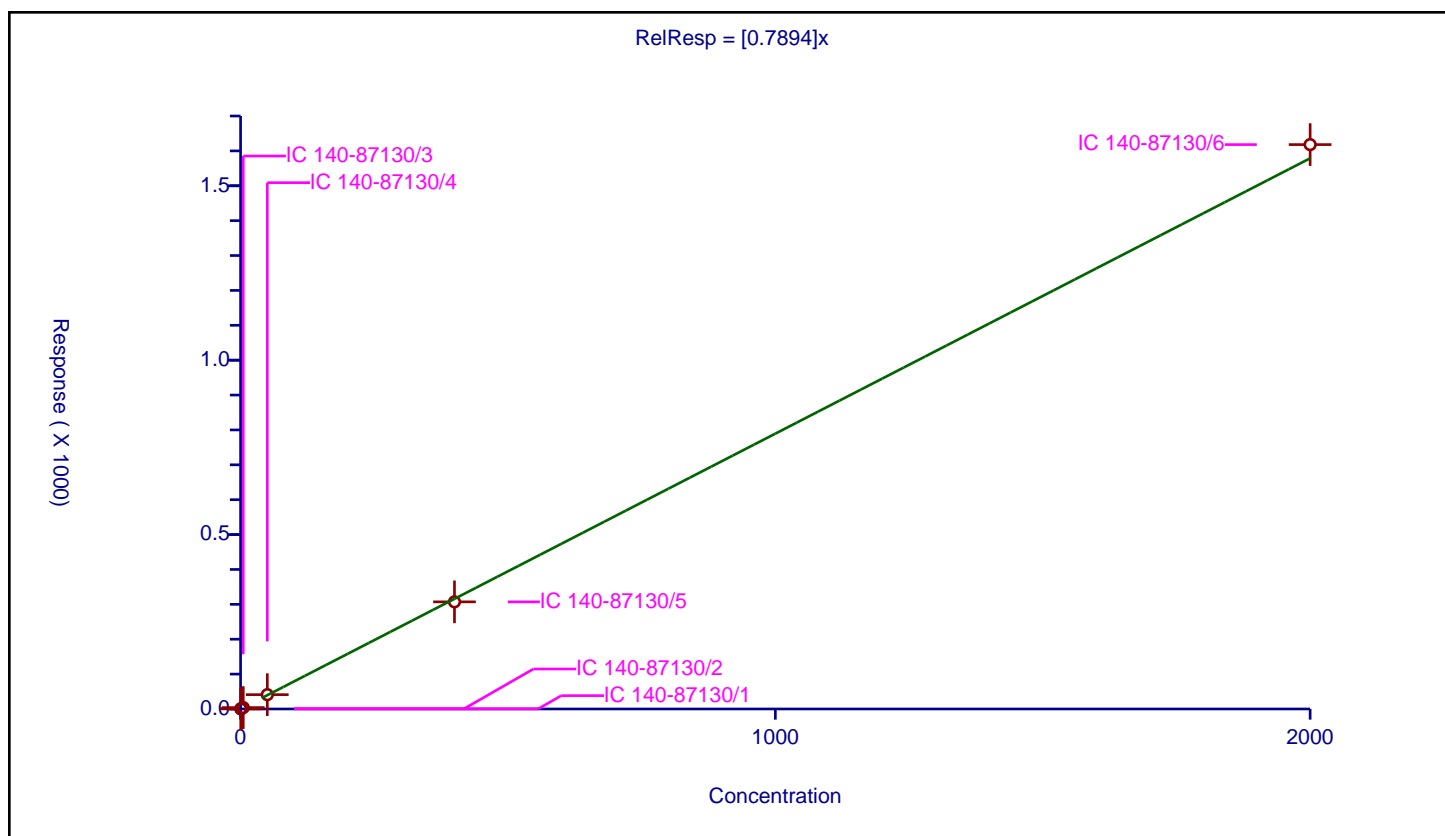
Curve Coefficients

Intercept: 0
Slope: 0.7894

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.387068	200.0	17145311.0	0.774136	Y
2	IC 140-87130/2	1.0	0.766692	200.0	16075823.0	0.766692	Y
3	IC 140-87130/3	5.0	3.98191	200.0	15994835.0	0.796382	Y
4	IC 140-87130/4	50.0	41.105116	200.0	16048883.0	0.822102	Y
5	IC 140-87130/5	400.0	307.159556	200.0	16797326.0	0.767899	Y
6	IC 140-87130/6	2000.0	1618.01164	200.0	18003846.0	0.809006	Y



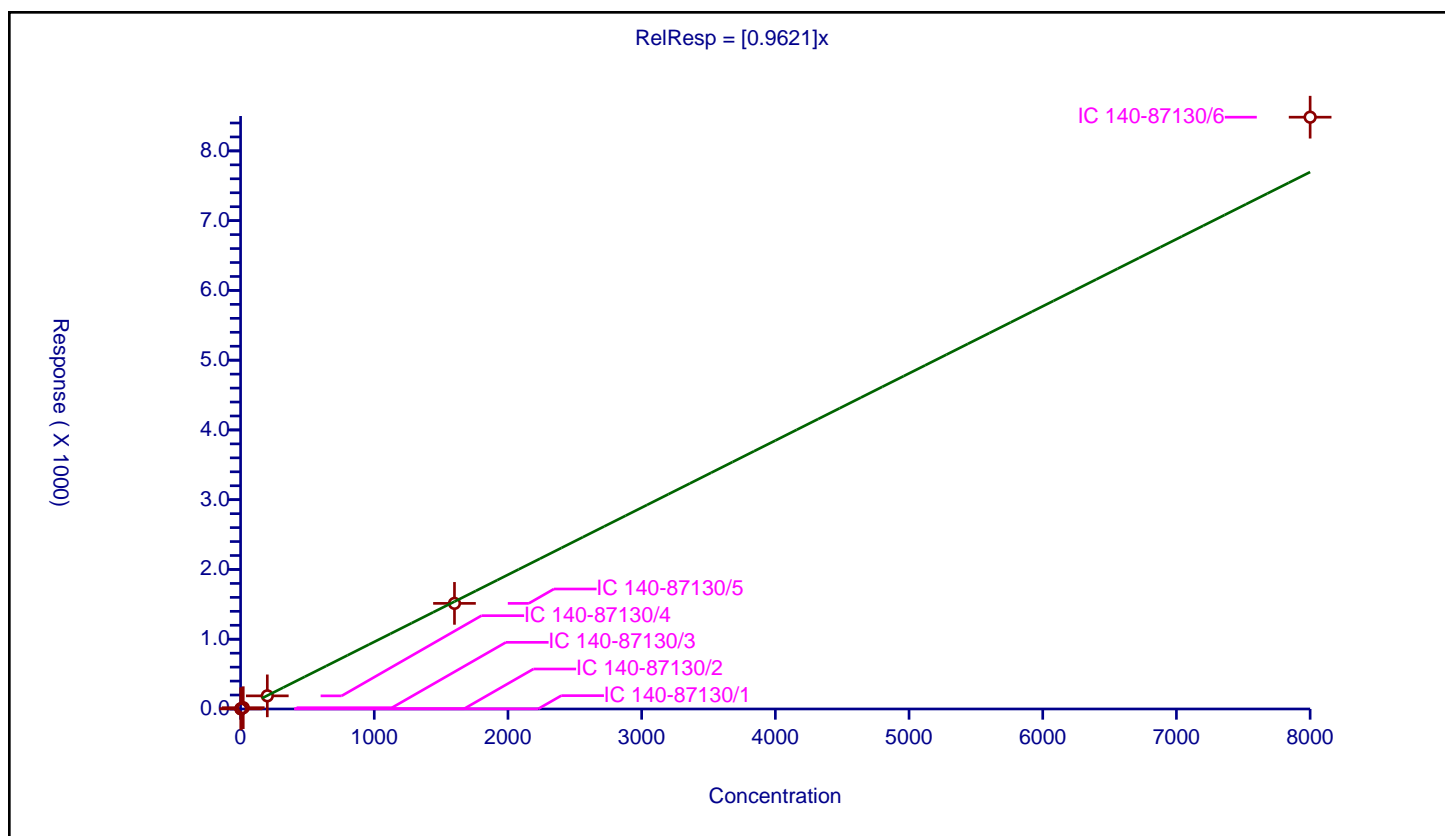
/ PCB-138

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

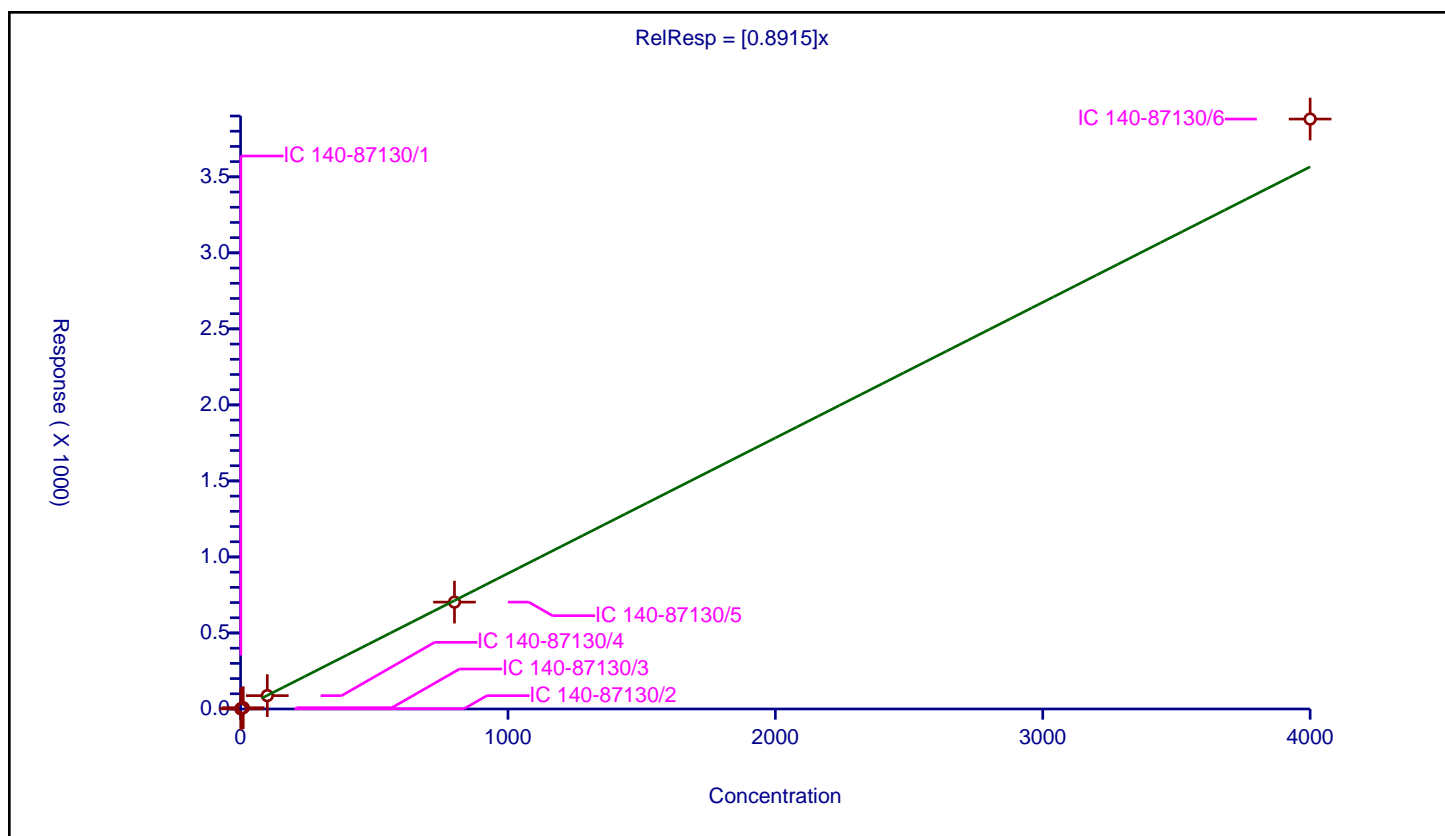
Curve Coefficients

Intercept: 0
Slope: 0.8915

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.89873	200.0	17145311.0	0.89873	Y
2	IC 140-87130/2	2.0	1.76409	200.0	16075823.0	0.882045	Y
3	IC 140-87130/3	10.0	8.421819	200.0	15994835.0	0.842182	Y
4	IC 140-87130/4	100.0	87.715687	200.0	16048883.0	0.877157	Y
5	IC 140-87130/5	800.0	702.950434	200.0	16797326.0	0.878688	Y
6	IC 140-87130/6	4000.0	3880.065815	200.0	18003846.0	0.970016	Y



Calibration

/ PCB-139/140

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

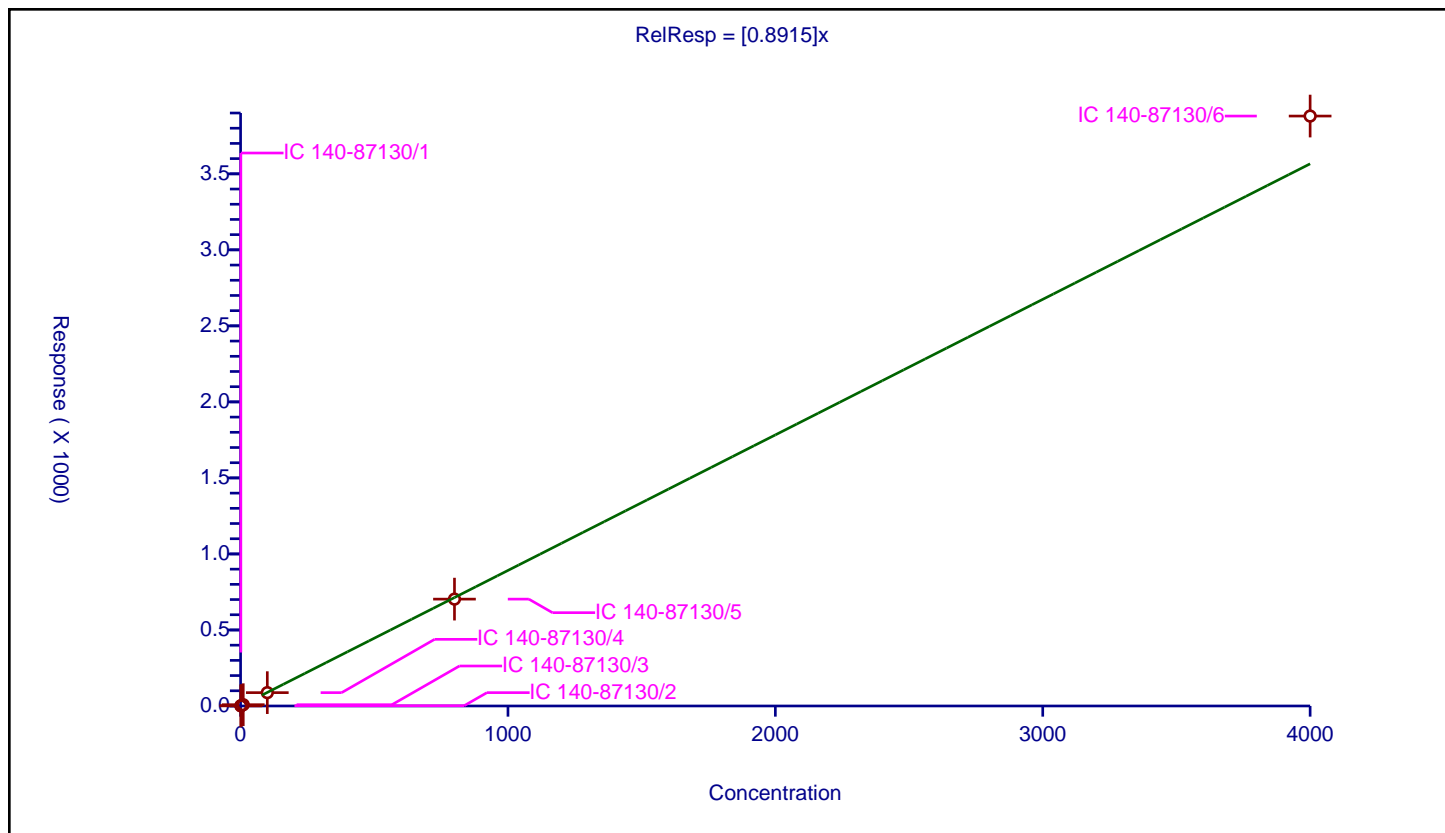
Curve Coefficients

Intercept: 0
Slope: 0.8915

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.89873	200.0	17145311.0	0.89873	Y
2	IC 140-87130/2	2.0	1.76409	200.0	16075823.0	0.882045	Y
3	IC 140-87130/3	10.0	8.421819	200.0	15994835.0	0.842182	Y
4	IC 140-87130/4	100.0	87.715687	200.0	16048883.0	0.877157	Y
5	IC 140-87130/5	800.0	702.950434	200.0	16797326.0	0.878688	Y
6	IC 140-87130/6	4000.0	3880.065815	200.0	18003846.0	0.970016	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

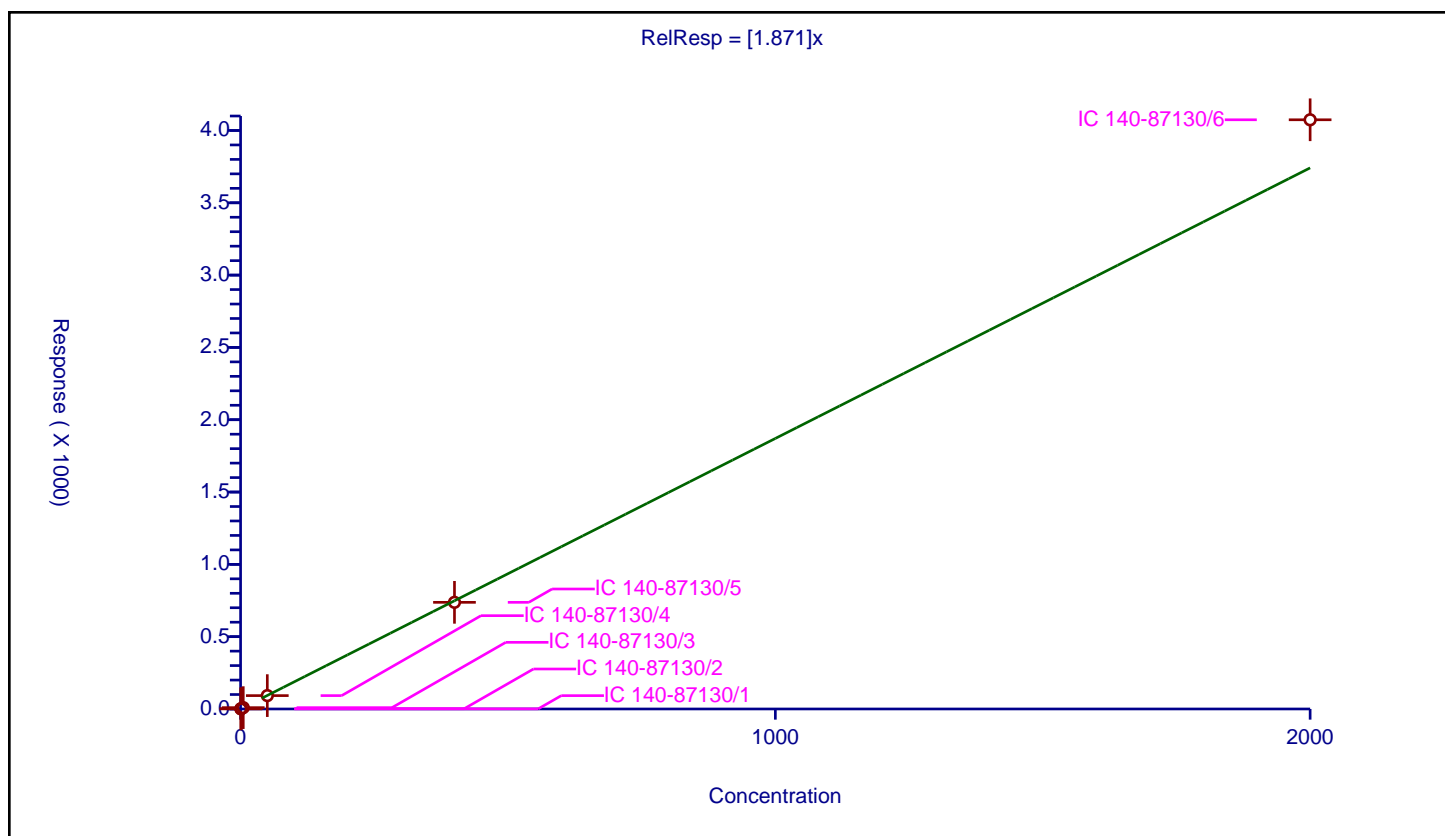
Curve Coefficients

Intercept: 0
Slope: 1.871

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.933302	100.0	5904521.0	1.866604	Y
2	IC 140-87130/2	1.0	1.758407	100.0	5442766.0	1.758407	Y
3	IC 140-87130/3	5.0	9.337166	100.0	5279032.0	1.867433	Y
4	IC 140-87130/4	50.0	92.543587	100.0	5474214.0	1.850872	Y
5	IC 140-87130/5	400.0	737.446207	100.0	5561618.0	1.843616	Y
6	IC 140-87130/6	2000.0	4073.908528	100.0	5672202.0	2.036954	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

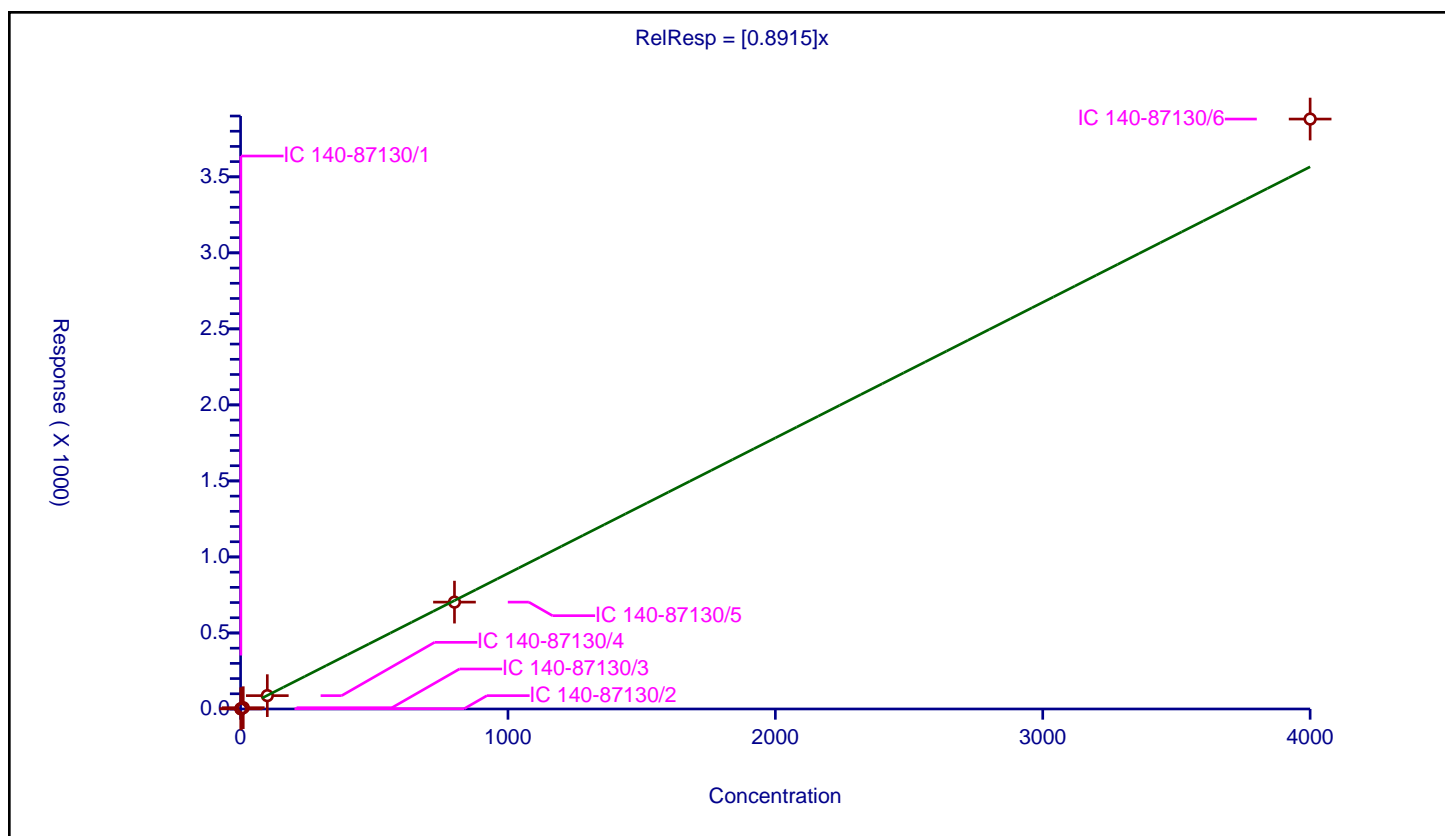
Curve Coefficients

Intercept: 0
Slope: 0.8915

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.89873	200.0	17145311.0	0.89873	Y
2	IC 140-87130/2	2.0	1.76409	200.0	16075823.0	0.882045	Y
3	IC 140-87130/3	10.0	8.421819	200.0	15994835.0	0.842182	Y
4	IC 140-87130/4	100.0	87.715687	200.0	16048883.0	0.877157	Y
5	IC 140-87130/5	800.0	702.950434	200.0	16797326.0	0.878688	Y
6	IC 140-87130/6	4000.0	3880.065815	200.0	18003846.0	0.970016	Y



Calibration

/ PCB-141

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

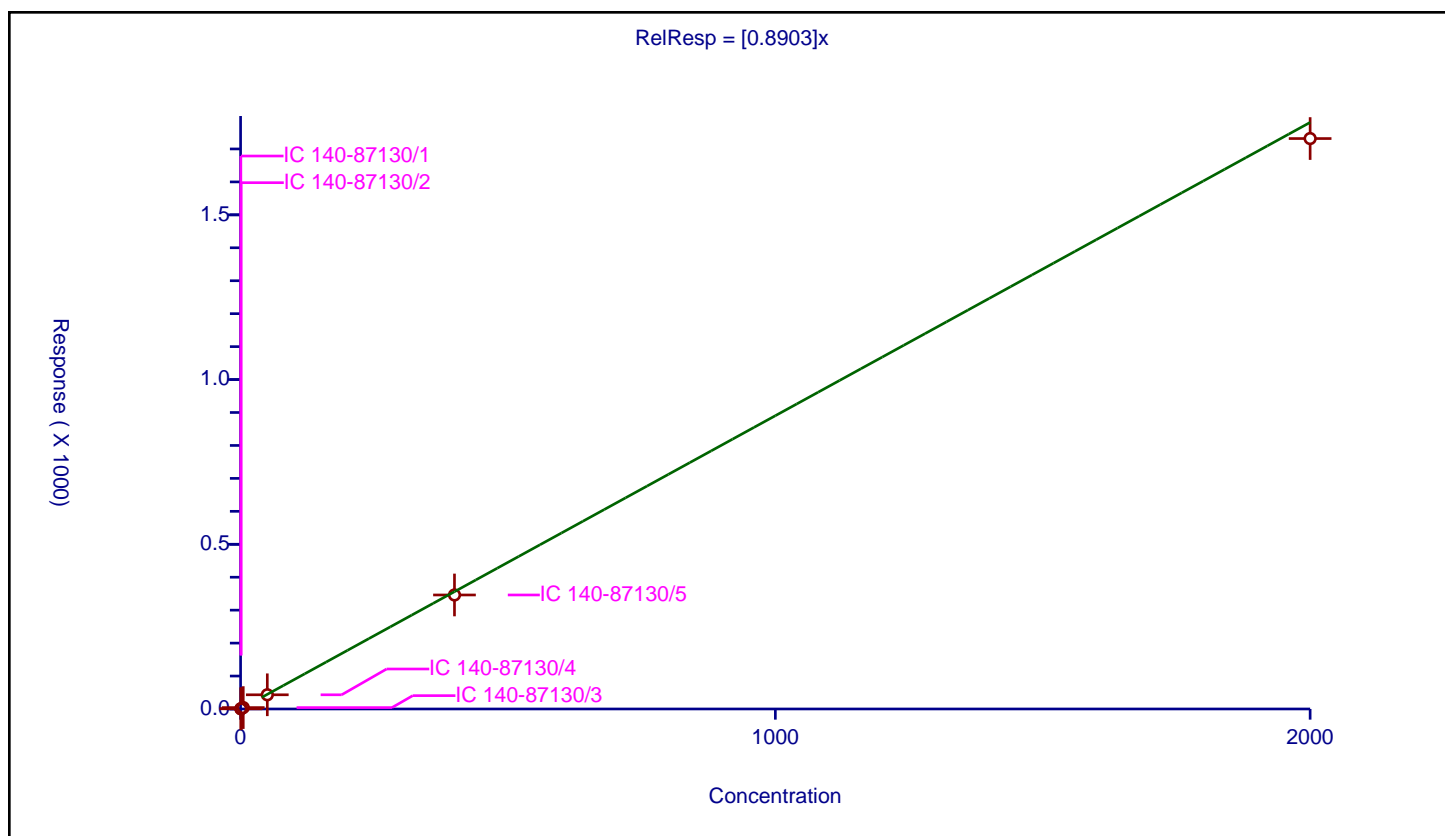
Curve Coefficients

Intercept: 0
 Slope: 0.8903

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.48601	200.0	17145311.0	0.972021	Y
2	IC 140-87130/2	1.0	0.929644	200.0	16075823.0	0.929644	Y
3	IC 140-87130/3	5.0	4.232141	200.0	15994835.0	0.846428	Y
4	IC 140-87130/4	50.0	43.135127	200.0	16048883.0	0.862703	Y
5	IC 140-87130/5	400.0	346.061427	200.0	16797326.0	0.865154	Y
6	IC 140-87130/6	2000.0	1731.592927	200.0	18003846.0	0.865796	Y



Calibration

/ PCB-142

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

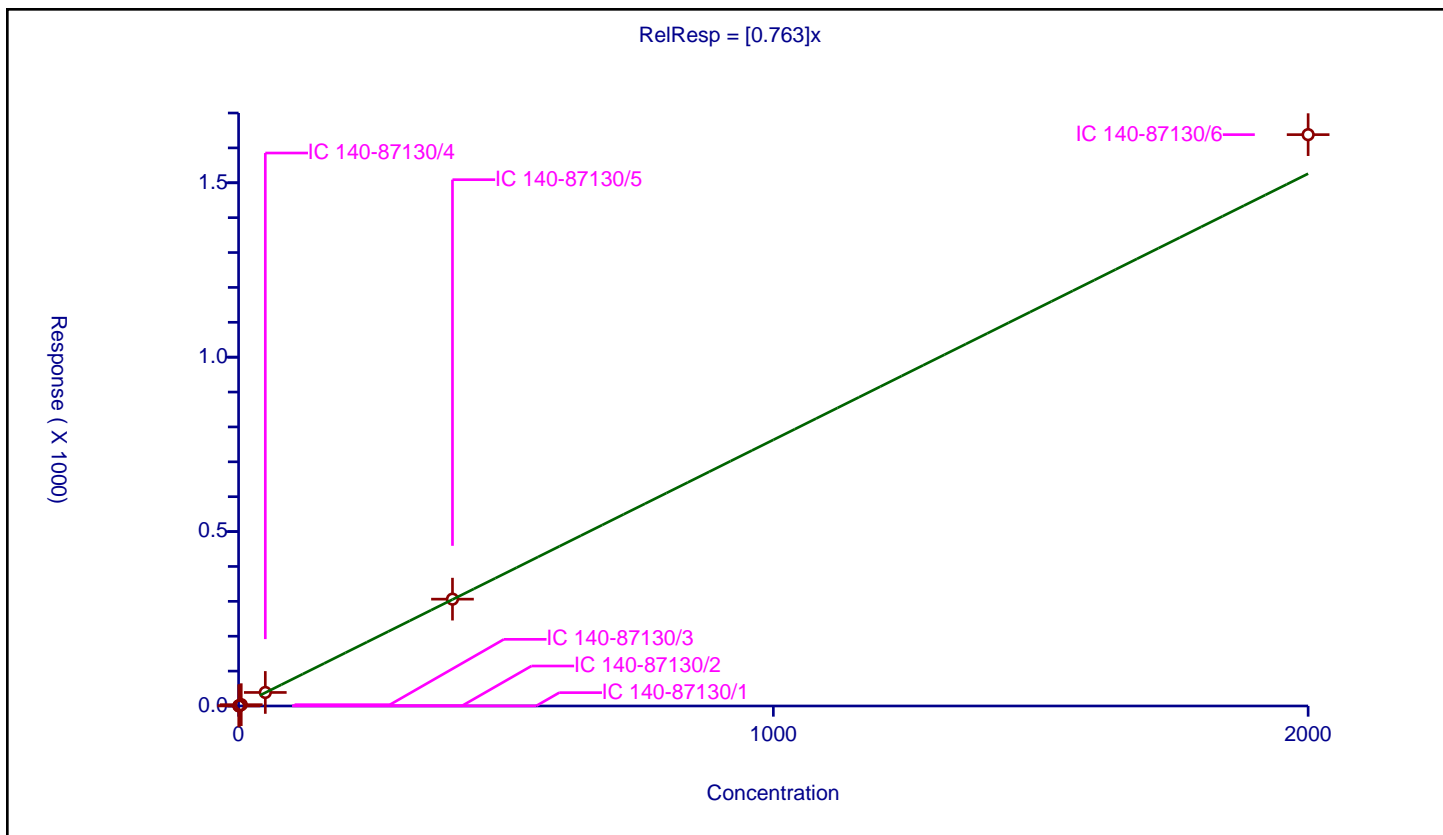
Curve Coefficients

Intercept: 0
Slope: 0.763

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.366992	200.0	17145311.0	0.733985	Y
2	IC 140-87130/2	1.0	0.729767	200.0	16075823.0	0.729767	Y
3	IC 140-87130/3	5.0	3.765791	200.0	15994835.0	0.753158	Y
4	IC 140-87130/4	50.0	38.820833	200.0	16048883.0	0.776417	Y
5	IC 140-87130/5	400.0	306.326043	200.0	16797326.0	0.765815	Y
6	IC 140-87130/6	2000.0	1638.013444	200.0	18003846.0	0.819007	Y



Calibration

/ PCB-143

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

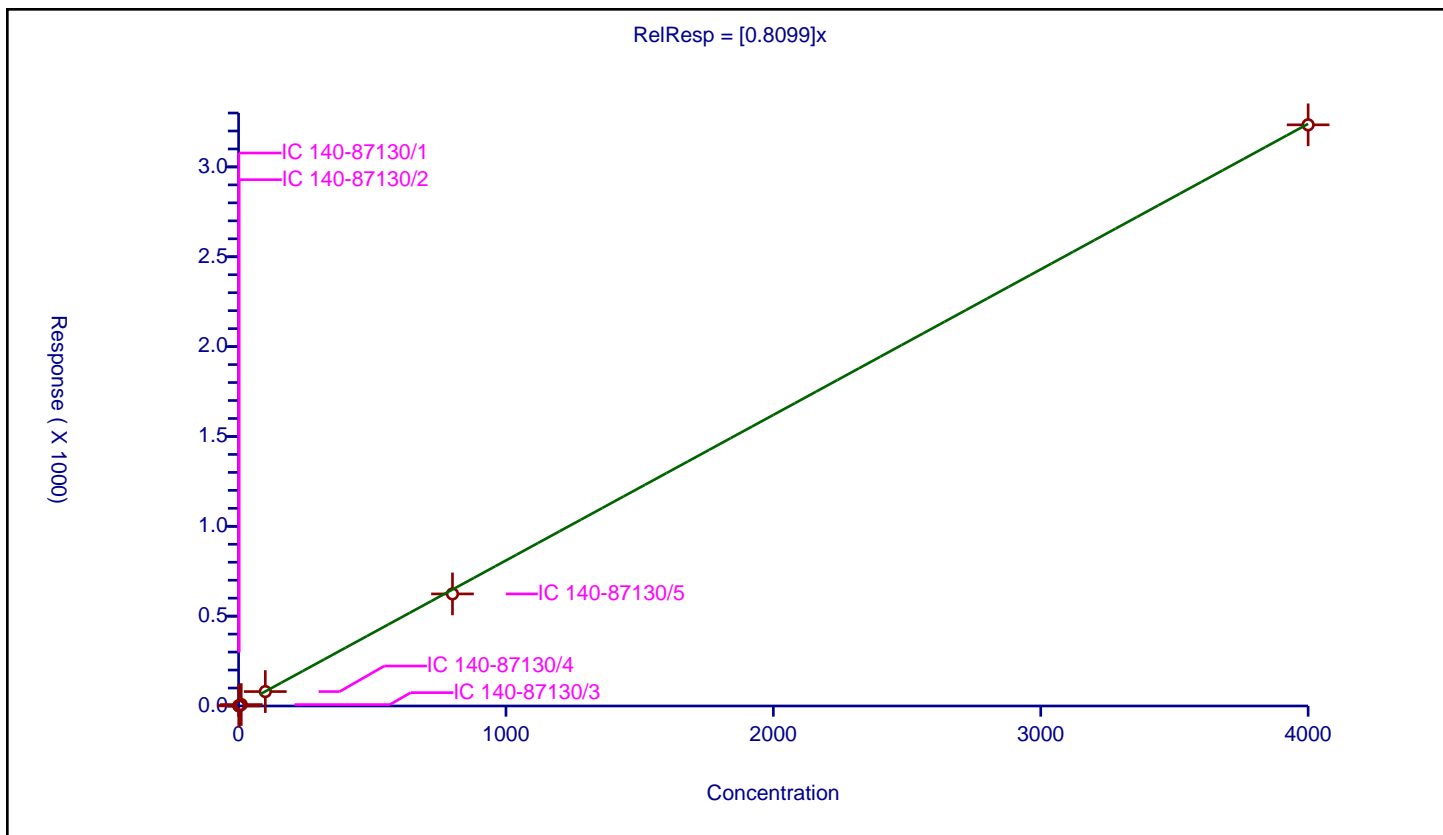
Curve Coefficients

Intercept: 0
 Slope: 0.8099

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.853761	200.0	17145311.0	0.853761	Y
2	IC 140-87130/2	2.0	1.628296	200.0	16075823.0	0.814148	Y
3	IC 140-87130/3	10.0	8.010286	200.0	15994835.0	0.801029	Y
4	IC 140-87130/4	100.0	80.260988	200.0	16048883.0	0.80261	Y
5	IC 140-87130/5	800.0	623.646919	200.0	16797326.0	0.779559	Y
6	IC 140-87130/6	4000.0	3234.214523	200.0	18003846.0	0.808554	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

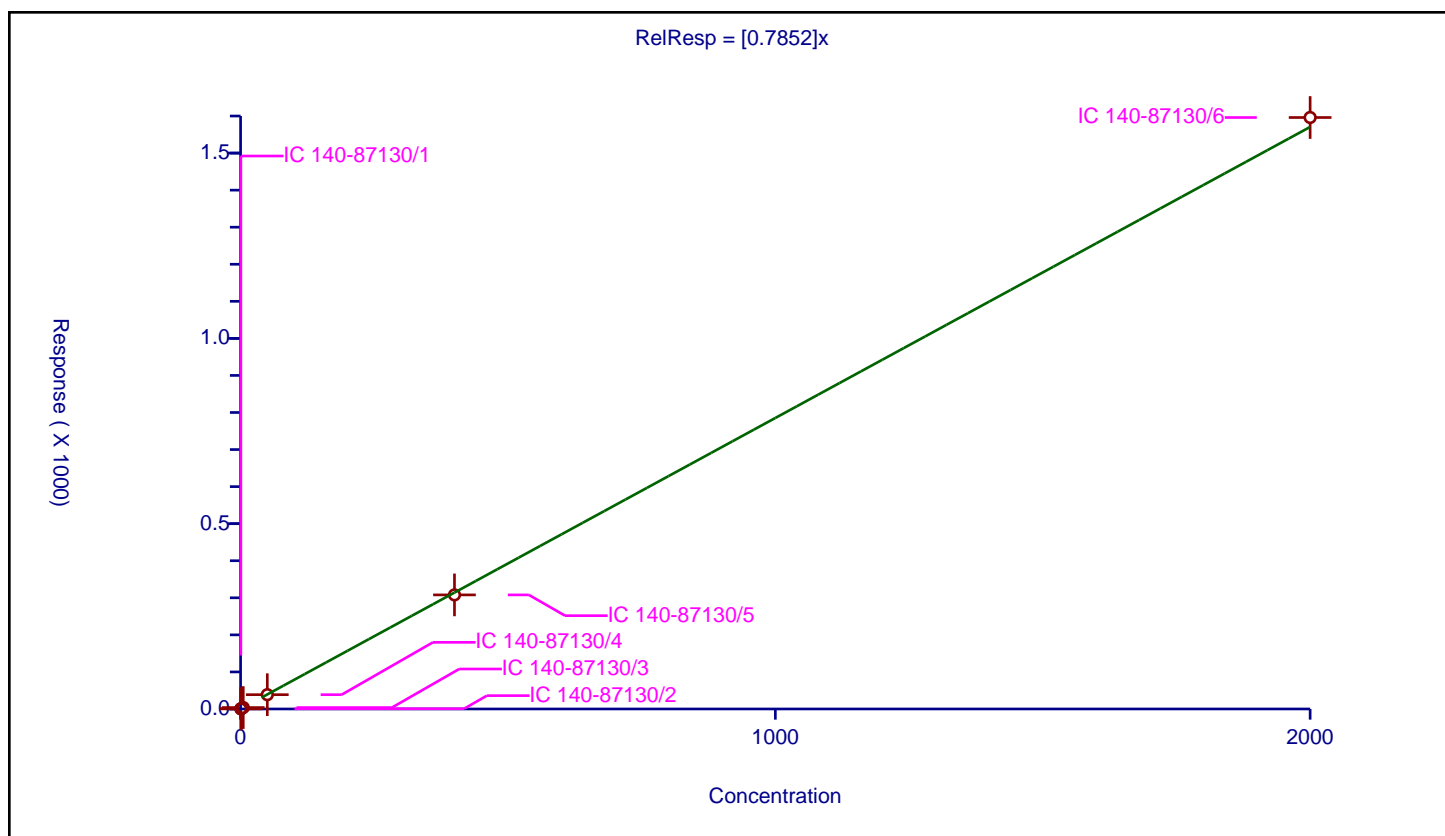
Curve Coefficients

Intercept: 0
Slope: 0.7852

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.41279	100.0	6307321.0	0.82558	Y
2	IC 140-87130/2	1.0	0.783931	100.0	5566942.0	0.783931	Y
3	IC 140-87130/3	5.0	3.813957	100.0	5708638.0	0.762791	Y
4	IC 140-87130/4	50.0	38.575427	100.0	5786925.0	0.771509	Y
5	IC 140-87130/5	400.0	307.855126	100.0	5892178.0	0.769638	Y
6	IC 140-87130/6	2000.0	1595.950486	100.0	6037909.0	0.797975	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

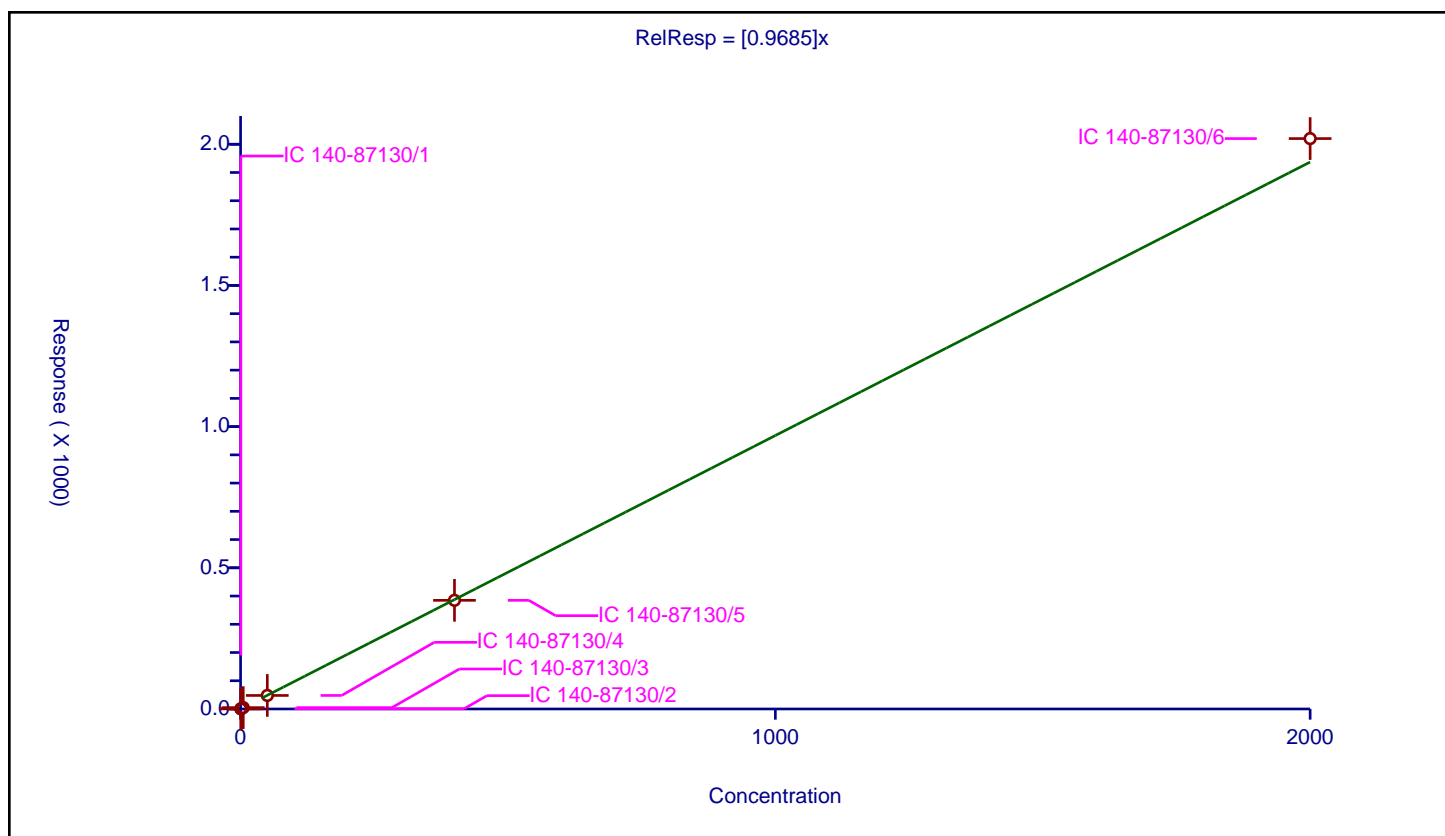
Curve Coefficients

Intercept: 0
Slope: 0.9685

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.498246	100.0	6307321.0	0.996493	Y
2	IC 140-87130/2	1.0	0.92011	100.0	5566942.0	0.92011	Y
3	IC 140-87130/3	5.0	4.817839	100.0	5708638.0	0.963568	Y
4	IC 140-87130/4	50.0	47.93449	100.0	5786925.0	0.95869	Y
5	IC 140-87130/5	400.0	384.788291	100.0	5892178.0	0.961971	Y
6	IC 140-87130/6	2000.0	2020.098349	100.0	6037909.0	1.010049	Y



Calibration

/ PCB-146

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

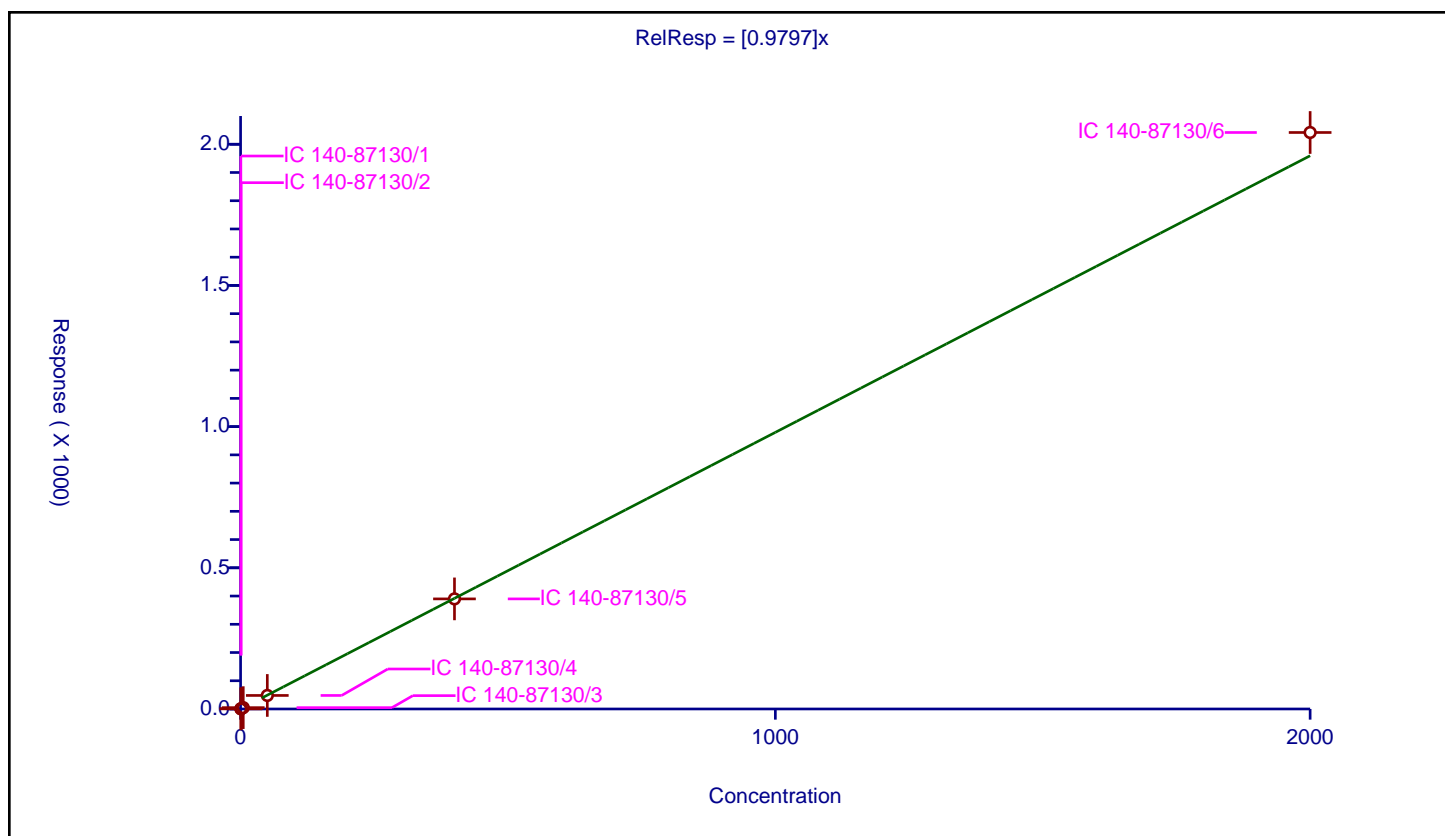
Curve Coefficients

Intercept: 0
 Slope: 0.9797

Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.49035	200.0	17145311.0	0.9807	Y
2	IC 140-87130/2	1.0	0.996254	200.0	16075823.0	0.996254	Y
3	IC 140-87130/3	5.0	4.734766	200.0	15994835.0	0.946953	Y
4	IC 140-87130/4	50.0	47.921154	200.0	16048883.0	0.958423	Y
5	IC 140-87130/5	400.0	389.923384	200.0	16797326.0	0.974808	Y
6	IC 140-87130/6	2000.0	2041.6516	200.0	18003846.0	1.020826	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

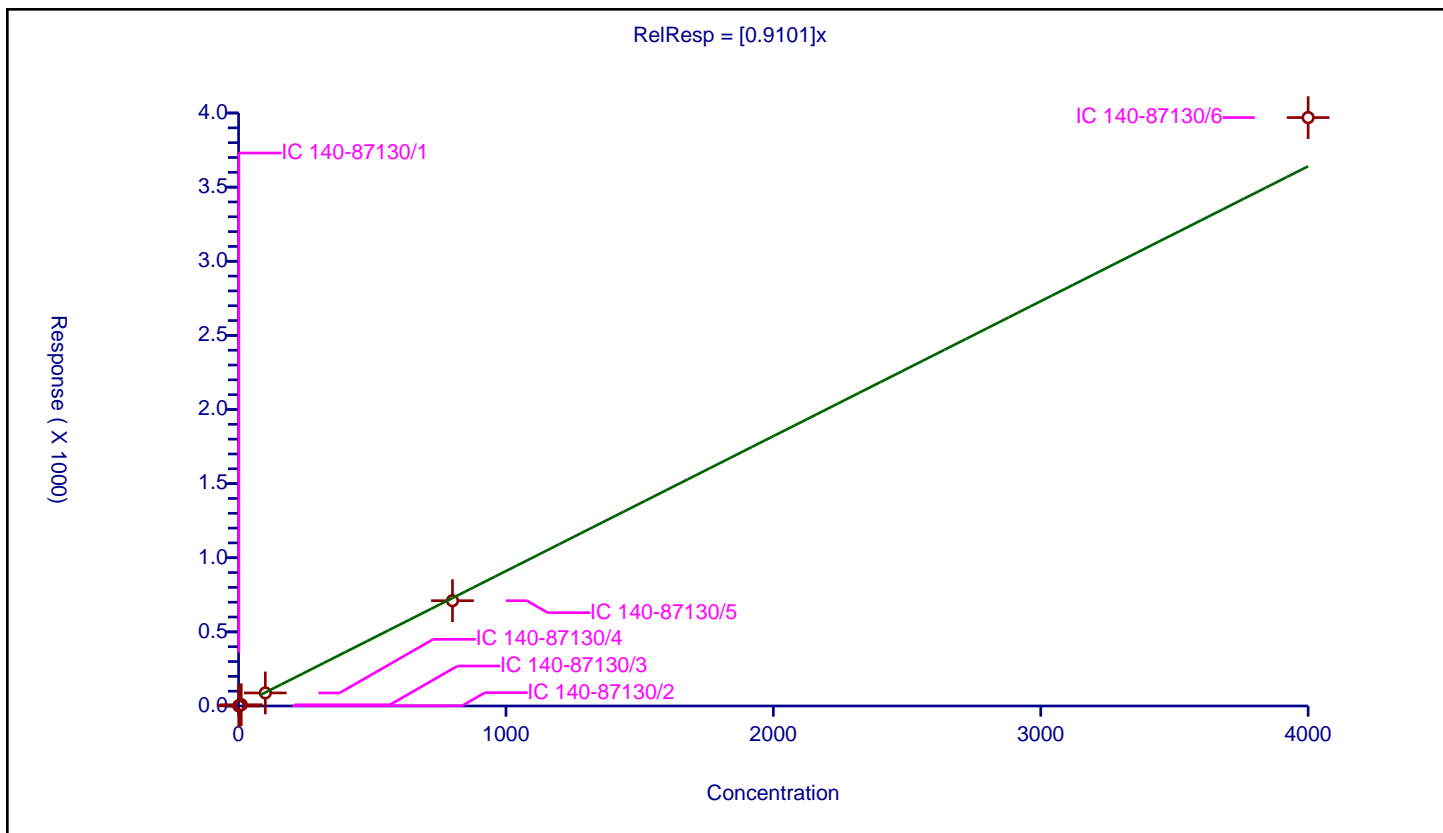
Curve Coefficients

Intercept: 0
Slope: 0.9101

Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.99794	200.0	17145311.0	0.99794	Y
2	IC 140-87130/2	2.0	1.715968	200.0	16075823.0	0.857984	Y
3	IC 140-87130/3	10.0	8.442125	200.0	15994835.0	0.844213	Y
4	IC 140-87130/4	100.0	88.06993	200.0	16048883.0	0.880699	Y
5	IC 140-87130/5	800.0	710.182323	200.0	16797326.0	0.887728	Y
6	IC 140-87130/6	4000.0	3969.18404	200.0	18003846.0	0.992296	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

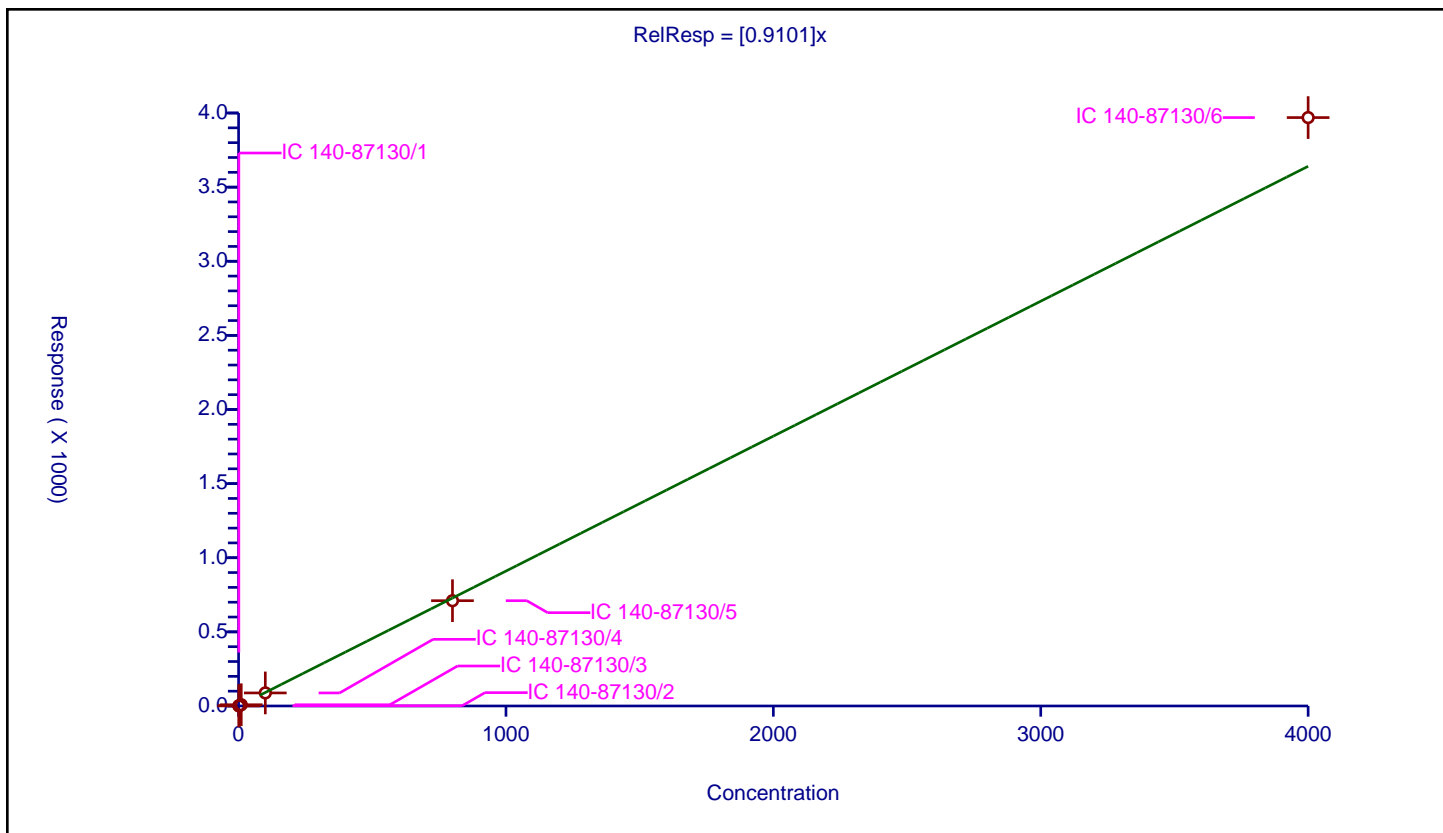
Curve Coefficients

Intercept: 0
Slope: 0.9101

Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.99794	200.0	17145311.0	0.99794	Y
2	IC 140-87130/2	2.0	1.715968	200.0	16075823.0	0.857984	Y
3	IC 140-87130/3	10.0	8.442125	200.0	15994835.0	0.844213	Y
4	IC 140-87130/4	100.0	88.06993	200.0	16048883.0	0.880699	Y
5	IC 140-87130/5	800.0	710.182323	200.0	16797326.0	0.887728	Y
6	IC 140-87130/6	4000.0	3969.18404	200.0	18003846.0	0.992296	Y



Calibration

/ PCB-148

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

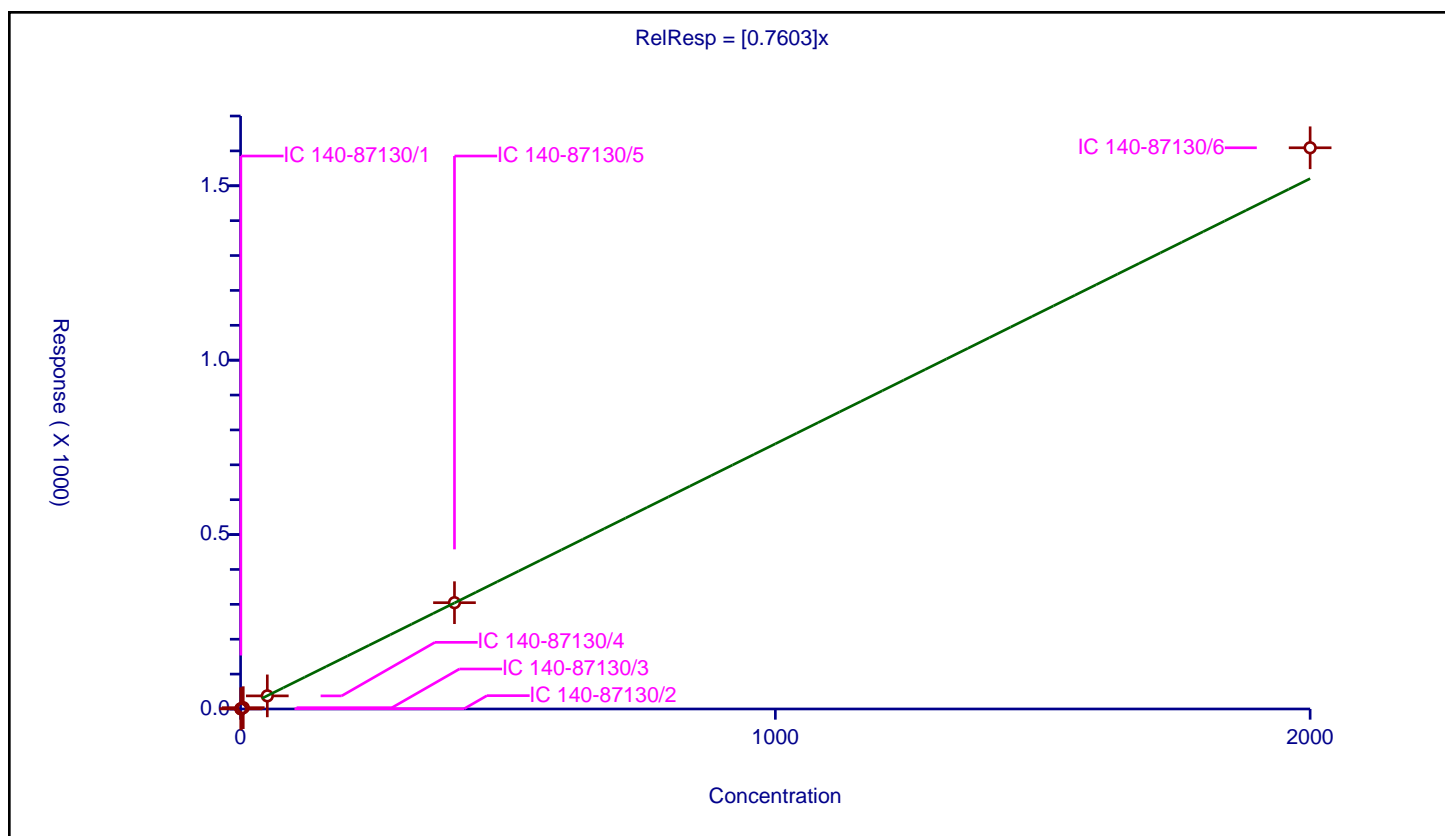
Curve Coefficients

Intercept: 0
Slope: 0.7603

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.382302	100.0	6307321.0	0.764604	Y
2	IC 140-87130/2	1.0	0.725138	100.0	5566942.0	0.725138	Y
3	IC 140-87130/3	5.0	3.767291	100.0	5708638.0	0.753458	Y
4	IC 140-87130/4	50.0	37.606414	100.0	5786925.0	0.752128	Y
5	IC 140-87130/5	400.0	304.766658	100.0	5892178.0	0.761917	Y
6	IC 140-87130/6	2000.0	1608.934318	100.0	6037909.0	0.804467	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

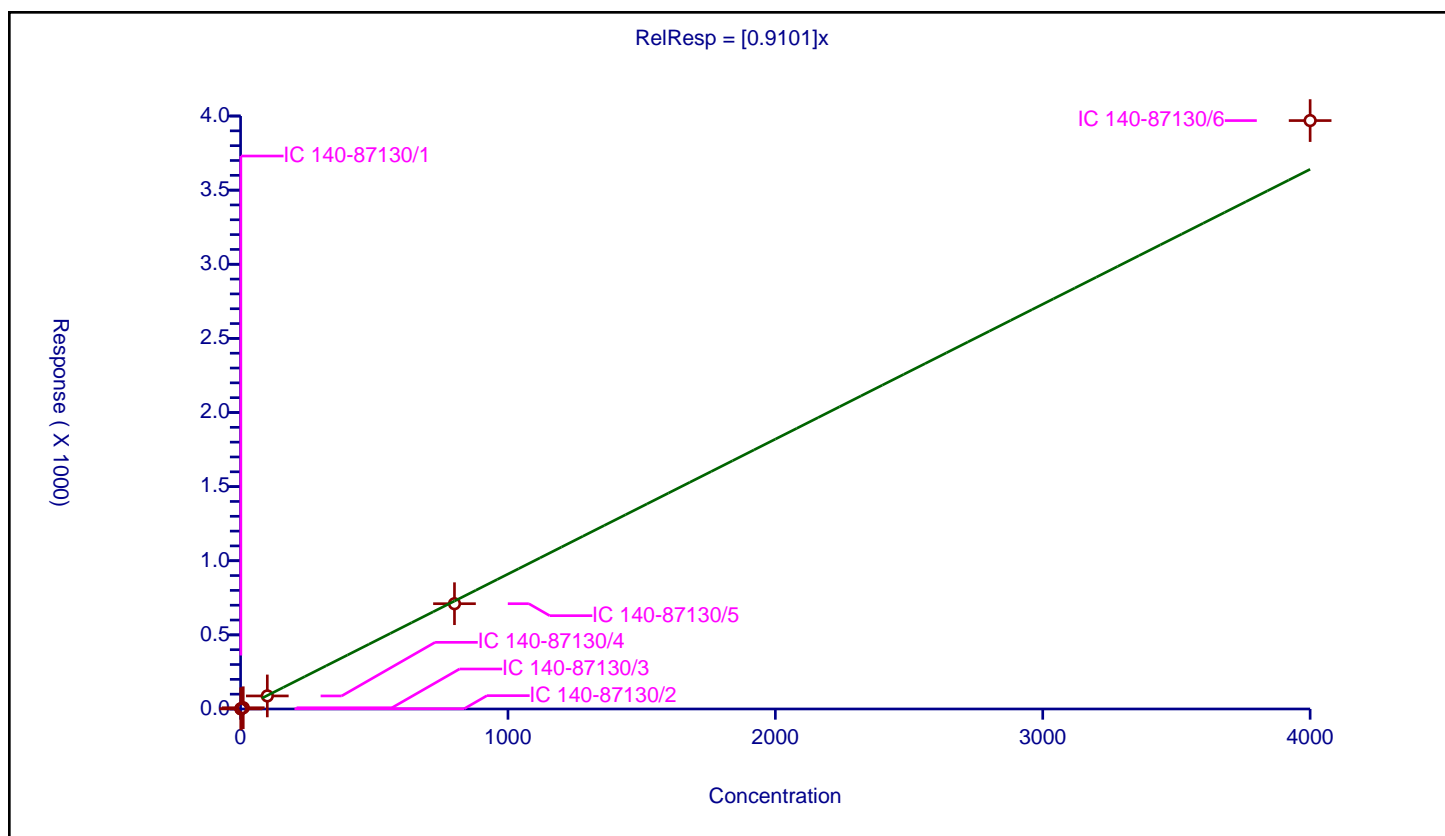
Curve Coefficients

Intercept: 0
Slope: 0.9101

Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.99794	200.0	17145311.0	0.99794	Y
2	IC 140-87130/2	2.0	1.715968	200.0	16075823.0	0.857984	Y
3	IC 140-87130/3	10.0	8.442125	200.0	15994835.0	0.844213	Y
4	IC 140-87130/4	100.0	88.06993	200.0	16048883.0	0.880699	Y
5	IC 140-87130/5	800.0	710.182323	200.0	16797326.0	0.887728	Y
6	IC 140-87130/6	4000.0	3969.18404	200.0	18003846.0	0.992296	Y



Calibration

/ PCB-15

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

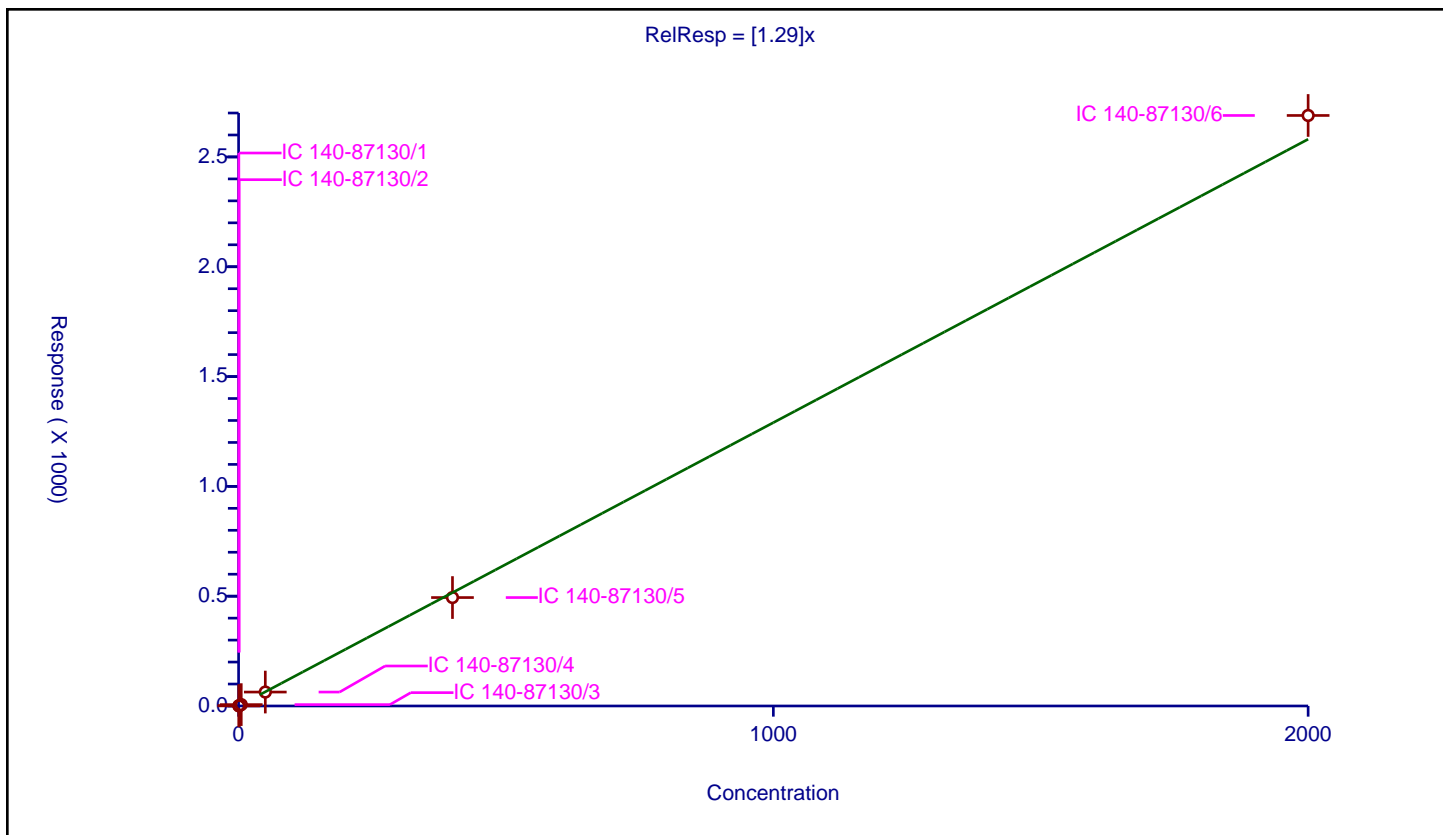
Curve Coefficients

Intercept: 0
 Slope: 1.29

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.673614	100.0	9483770.0	1.347228	Y
2	IC 140-87130/2	1.0	1.291522	100.0	8819361.0	1.291522	Y
3	IC 140-87130/3	5.0	6.271571	100.0	8806182.0	1.254314	Y
4	IC 140-87130/4	50.0	63.487669	100.0	8855244.0	1.269753	Y
5	IC 140-87130/5	400.0	493.815295	100.0	9575202.0	1.234538	Y
6	IC 140-87130/6	2000.0	2688.84542	100.0	10031243.0	1.344423	Y



Calibration

/ PCB-150

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

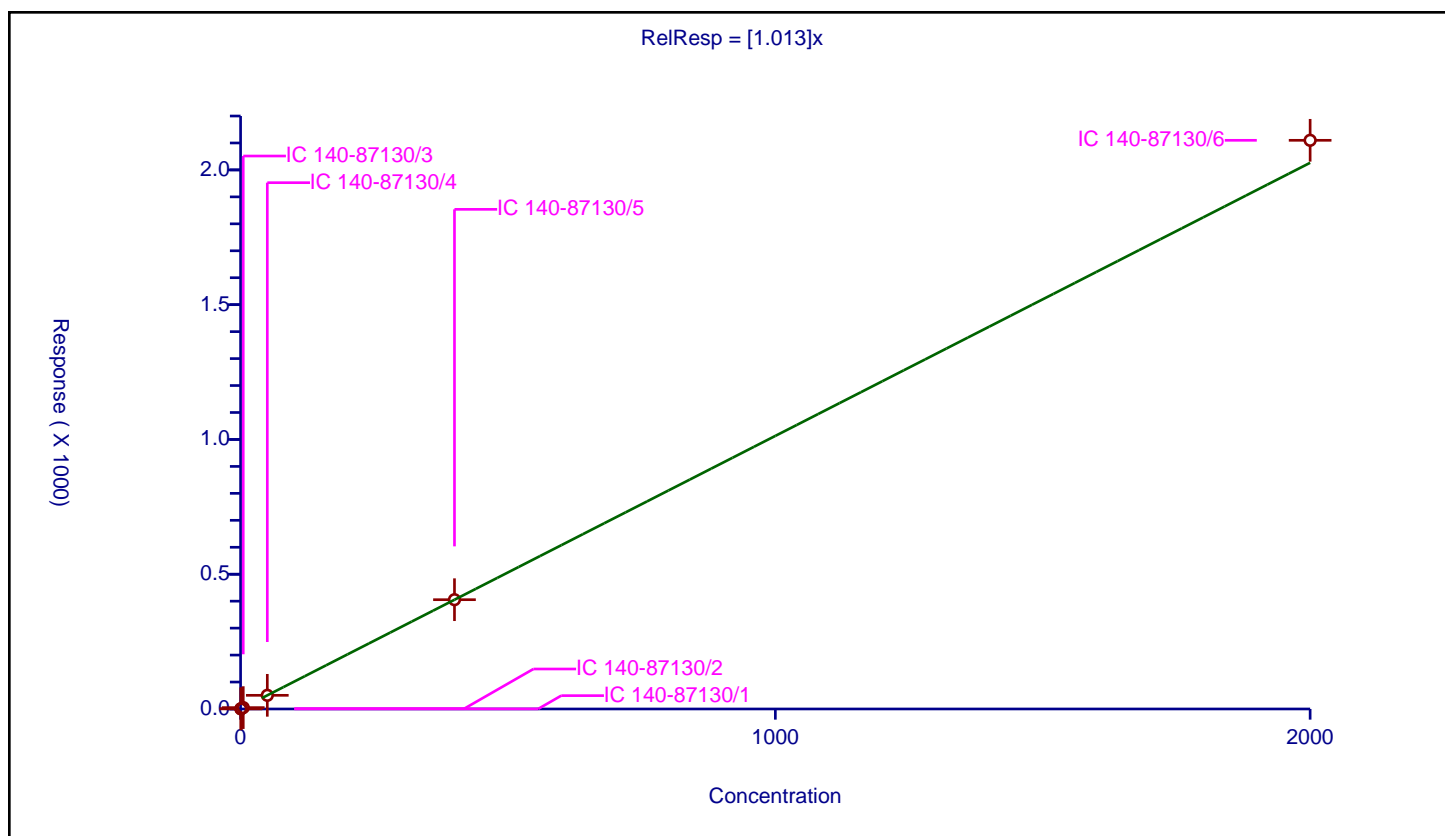
Curve Coefficients

Intercept: 0
Slope: 1.013

Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.48152	100.0	6307321.0	0.96304	Y
2	IC 140-87130/2	1.0	1.00795	100.0	5566942.0	1.00795	Y
3	IC 140-87130/3	5.0	5.130628	100.0	5708638.0	1.026126	Y
4	IC 140-87130/4	50.0	50.685381	100.0	5786925.0	1.013708	Y
5	IC 140-87130/5	400.0	405.467316	100.0	5892178.0	1.013668	Y
6	IC 140-87130/6	2000.0	2109.852633	100.0	6037909.0	1.054926	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

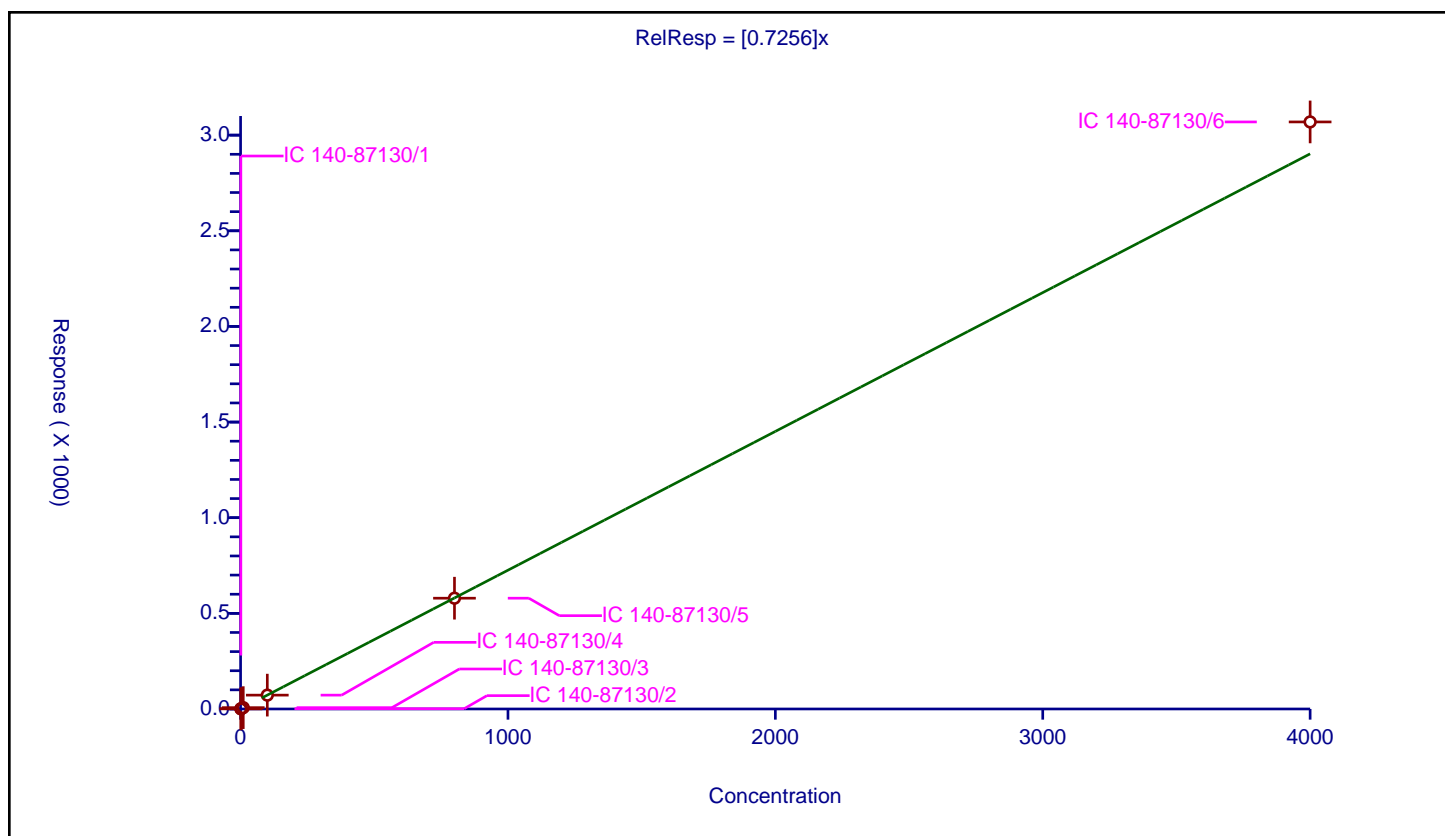
Curve Coefficients

Intercept: 0
Slope: 0.7256

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.728518	100.0	6307321.0	0.728518	Y
2	IC 140-87130/2	2.0	1.405889	100.0	5566942.0	0.702944	Y
3	IC 140-87130/3	10.0	7.063016	100.0	5708638.0	0.706302	Y
4	IC 140-87130/4	100.0	72.442307	100.0	5786925.0	0.724423	Y
5	IC 140-87130/5	800.0	579.168111	100.0	5892178.0	0.72396	Y
6	IC 140-87130/6	4000.0	3068.99001	100.0	6037909.0	0.767248	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

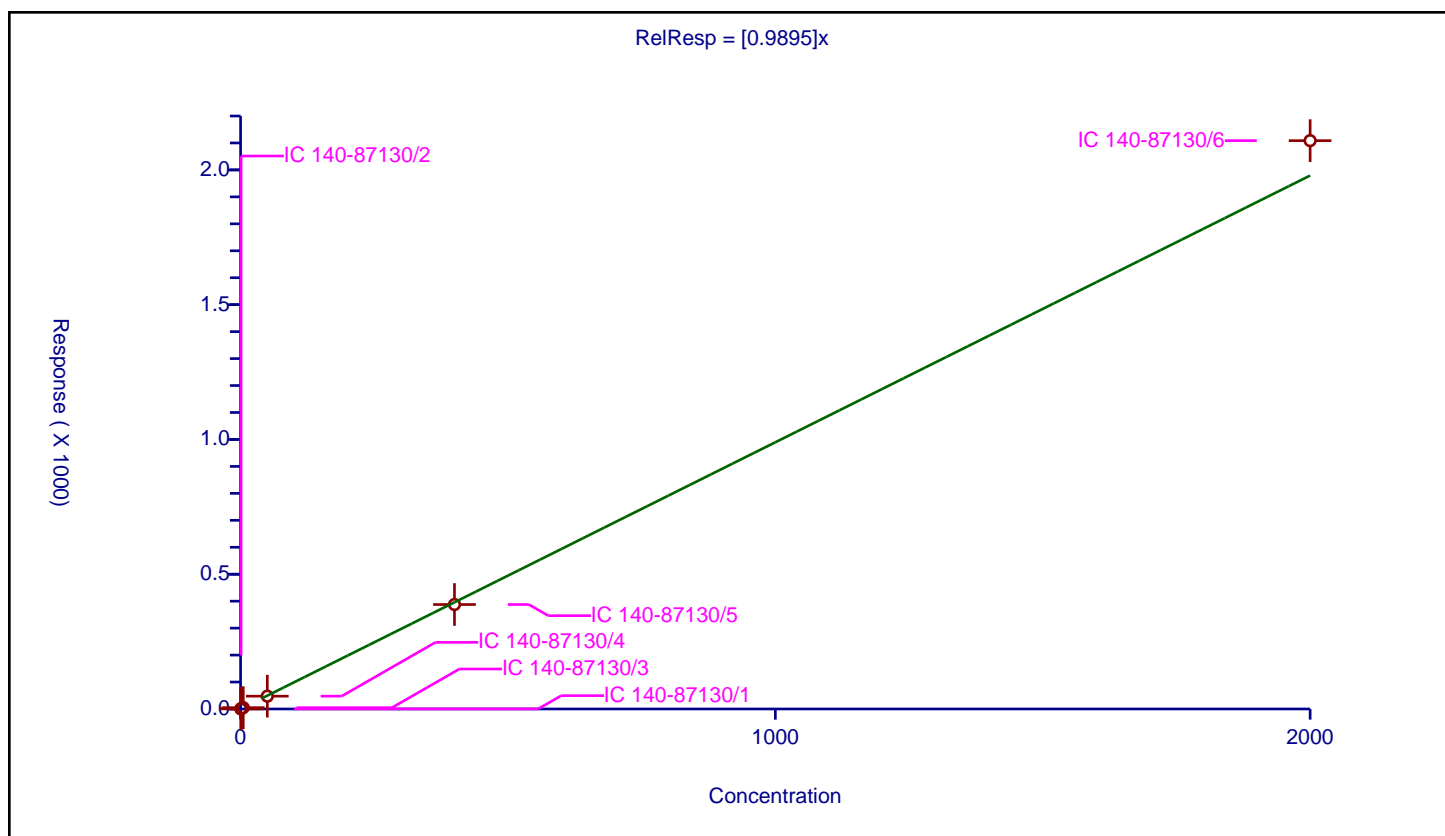
Curve Coefficients

Intercept: 0
Slope: 0.9895

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.492412	100.0	6307321.0	0.984824	Y
2	IC 140-87130/2	1.0	0.995142	100.0	5566942.0	0.995142	Y
3	IC 140-87130/3	5.0	4.912643	100.0	5708638.0	0.982529	Y
4	IC 140-87130/4	50.0	47.570428	100.0	5786925.0	0.951409	Y
5	IC 140-87130/5	400.0	387.571947	100.0	5892178.0	0.96893	Y
6	IC 140-87130/6	2000.0	2108.613131	100.0	6037909.0	1.054307	Y



Calibration

/ PCB-153

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

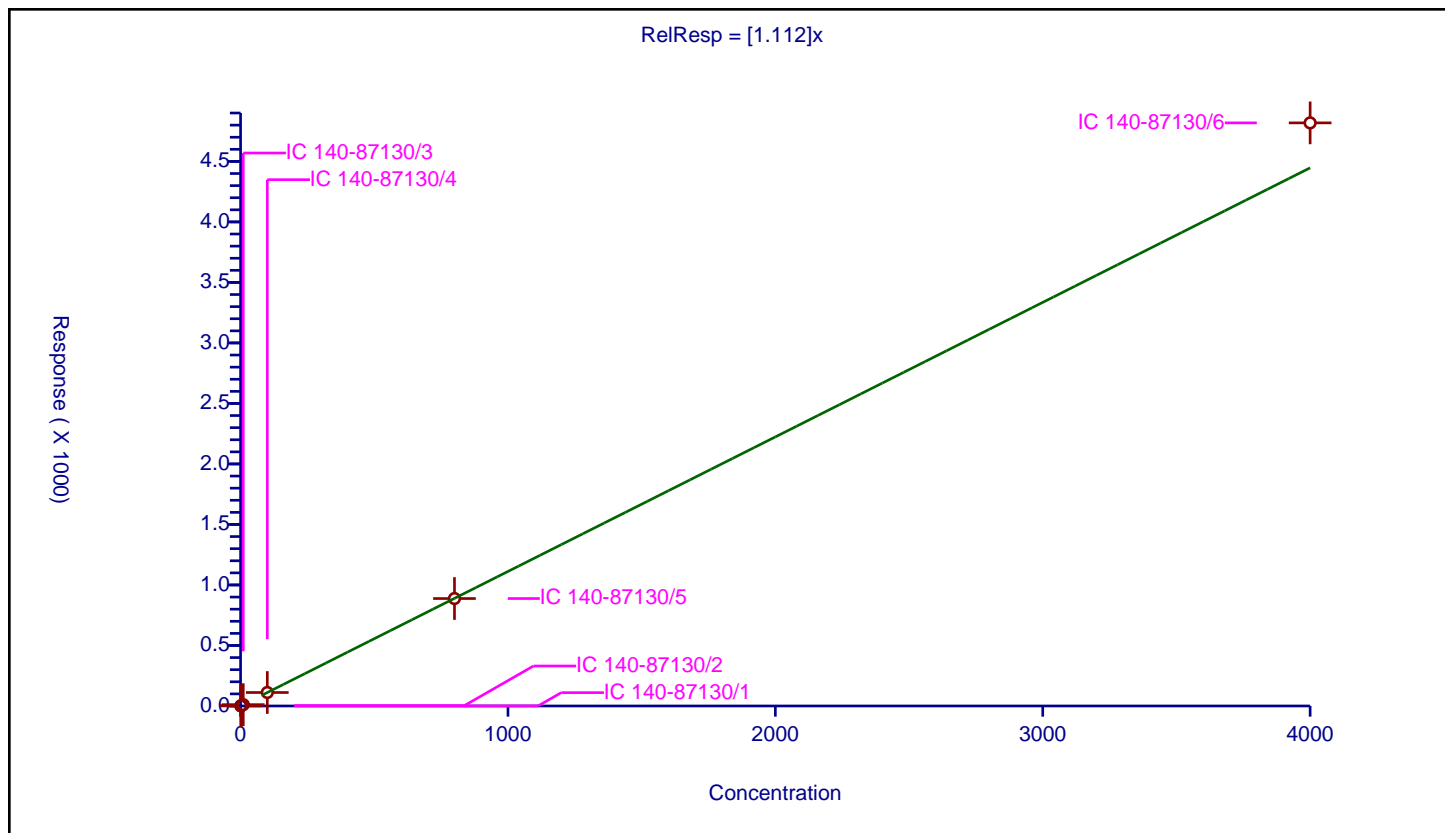
Curve Coefficients

Intercept: 0
Slope: 1.112

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.08579	200.0	17145311.0	1.08579	Y
2	IC 140-87130/2	2.0	2.076199	200.0	16075823.0	1.038099	Y
3	IC 140-87130/3	10.0	11.172444	200.0	15994835.0	1.117244	Y
4	IC 140-87130/4	100.0	111.466549	200.0	16048883.0	1.114665	Y
5	IC 140-87130/5	800.0	887.904587	200.0	16797326.0	1.109881	Y
6	IC 140-87130/6	4000.0	4818.405545	200.0	18003846.0	1.204601	Y



Calibration

/ PCB-153/168

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

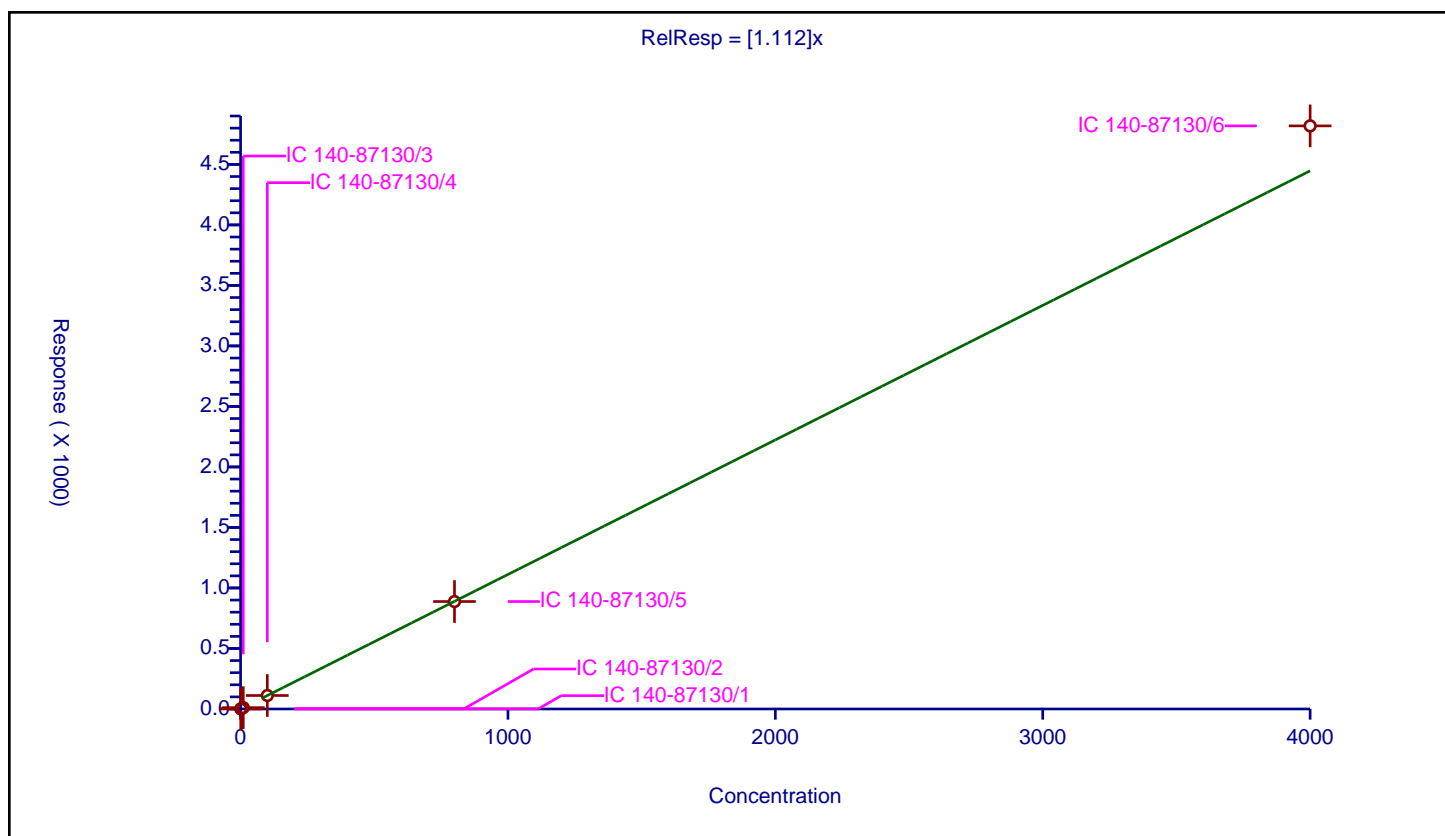
Curve Coefficients

Intercept: 0
Slope: 1.112

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.08579	200.0	17145311.0	1.08579	Y
2	IC 140-87130/2	2.0	2.076199	200.0	16075823.0	1.038099	Y
3	IC 140-87130/3	10.0	11.172444	200.0	15994835.0	1.117244	Y
4	IC 140-87130/4	100.0	111.466549	200.0	16048883.0	1.114665	Y
5	IC 140-87130/5	800.0	887.904587	200.0	16797326.0	1.109881	Y
6	IC 140-87130/6	4000.0	4818.405545	200.0	18003846.0	1.204601	Y



Calibration

/ PCB-153L

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

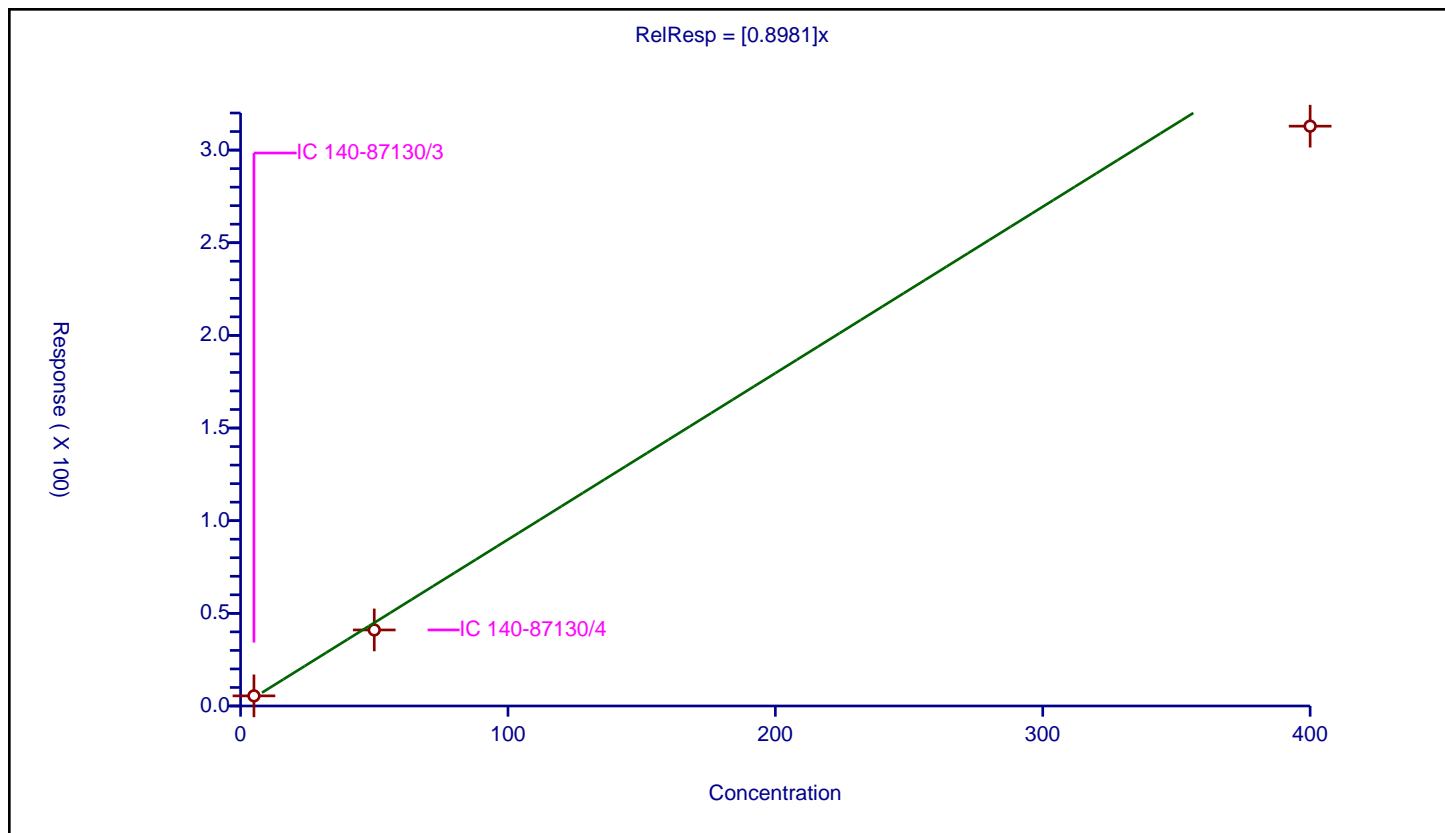
Curve Coefficients

Intercept: 0
Slope: 0.8981

Error Coefficients

Relative Standard Deviation: 18.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	5.456872	100.0	8150383.0	1.091374	Y
2	IC 140-87130/4	50.0	41.031232	100.0	8329121.0	0.820625	Y
3	IC 140-87130/5	400.0	312.906899	100.0	8748546.0	0.782267	Y



Calibration

/ PCB-154

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

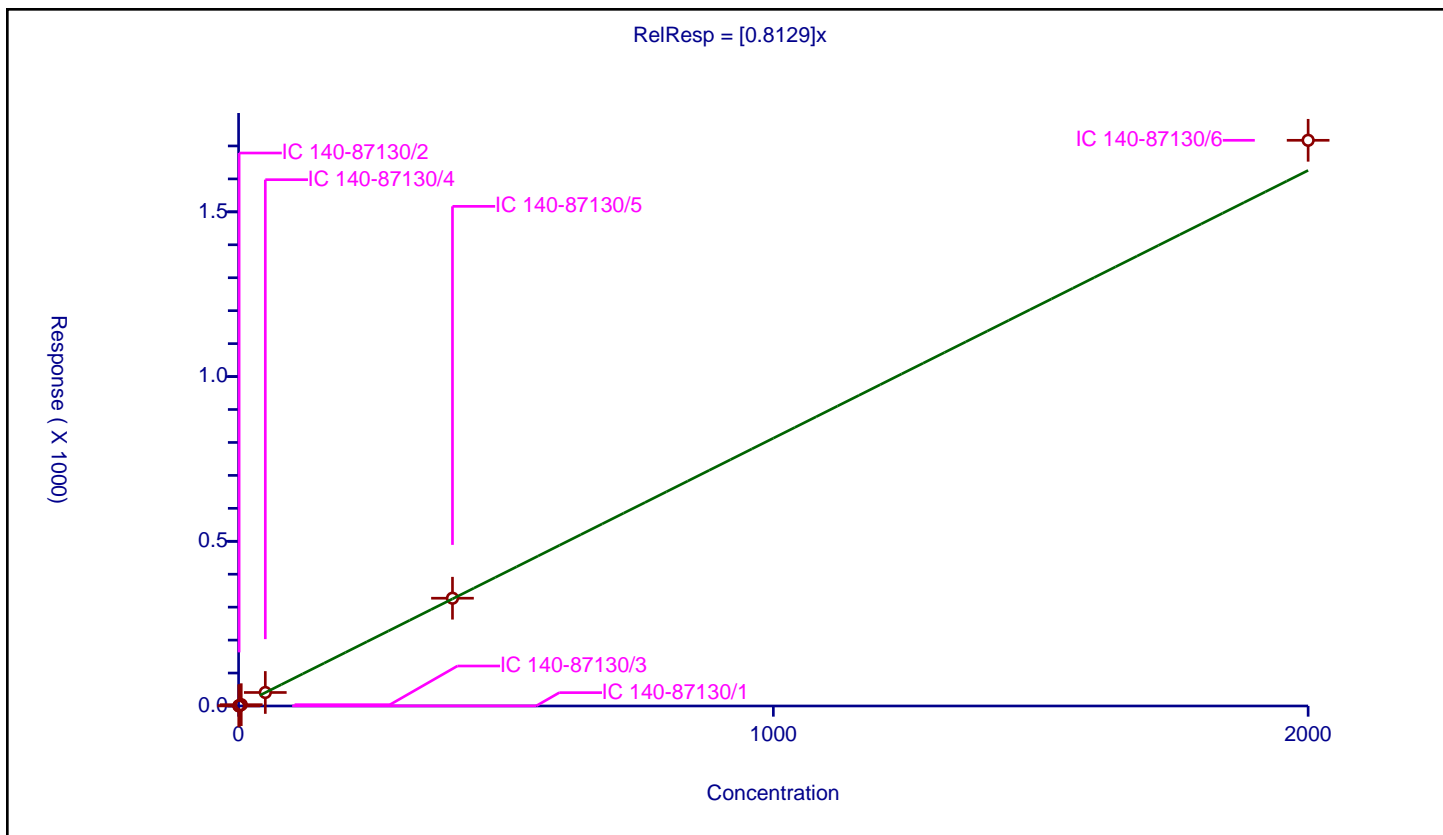
Curve Coefficients

Intercept: 0
 Slope: 0.8129

Error Coefficients

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.370554	100.0	6307321.0	0.741107	Y
2	IC 140-87130/2	1.0	0.840497	100.0	5566942.0	0.840497	Y
3	IC 140-87130/3	5.0	3.997836	100.0	5708638.0	0.799567	Y
4	IC 140-87130/4	50.0	40.980227	100.0	5786925.0	0.819605	Y
5	IC 140-87130/5	400.0	327.187315	100.0	5892178.0	0.817968	Y
6	IC 140-87130/6	2000.0	1717.150606	100.0	6037909.0	0.858575	Y



Calibration

/ PCB-155

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

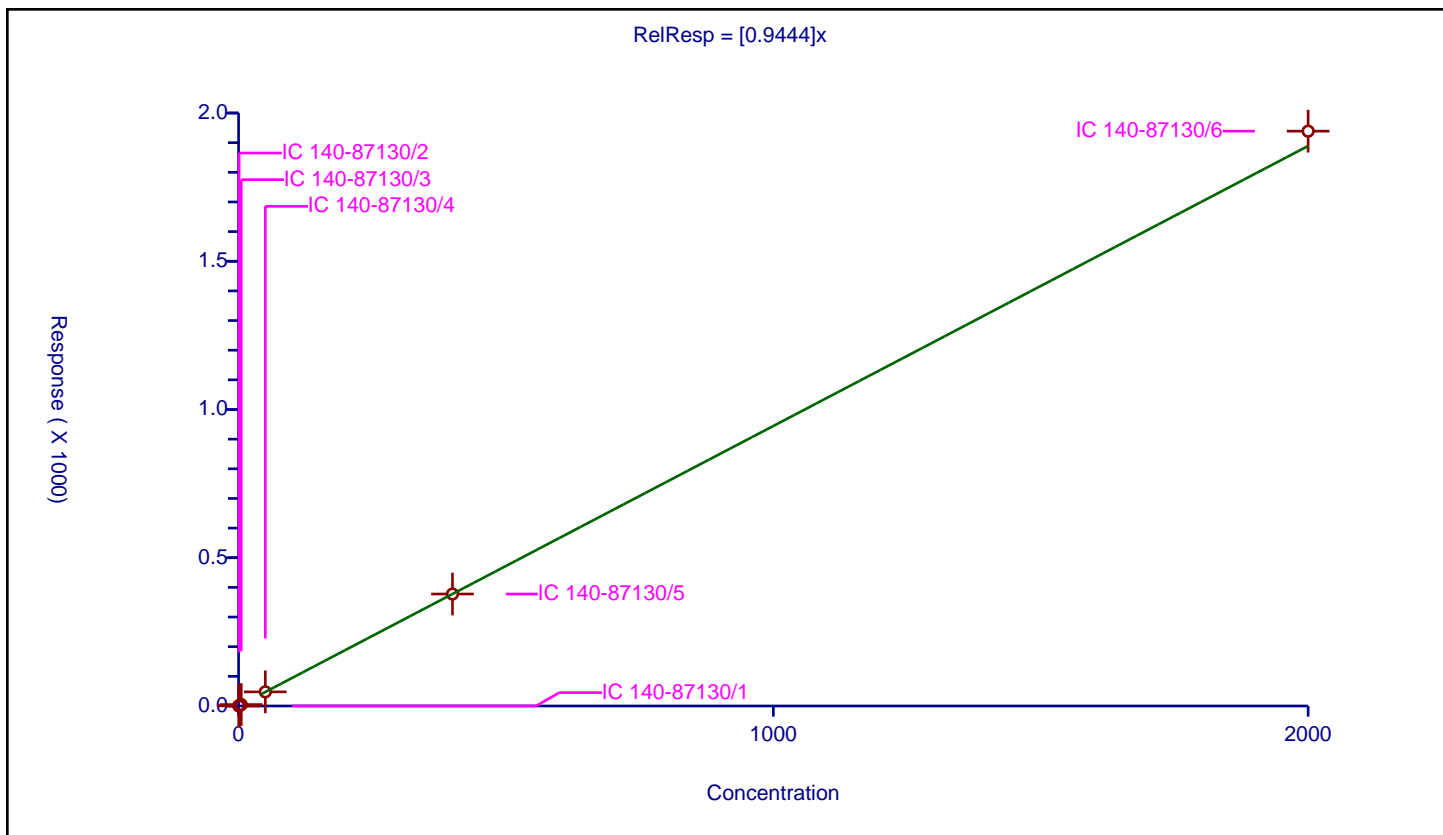
Curve Coefficients

Intercept: 0
 Slope: 0.9444

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.444563	100.0	6307321.0	0.889126	Y
2	IC 140-87130/2	1.0	0.965503	100.0	5566942.0	0.965503	Y
3	IC 140-87130/3	5.0	4.727082	100.0	5708638.0	0.945416	Y
4	IC 140-87130/4	50.0	47.645269	100.0	5786925.0	0.952905	Y
5	IC 140-87130/5	400.0	377.648639	100.0	5892178.0	0.944122	Y
6	IC 140-87130/6	2000.0	1938.79656	100.0	6037909.0	0.969398	Y



Calibration

/ PCB-156

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

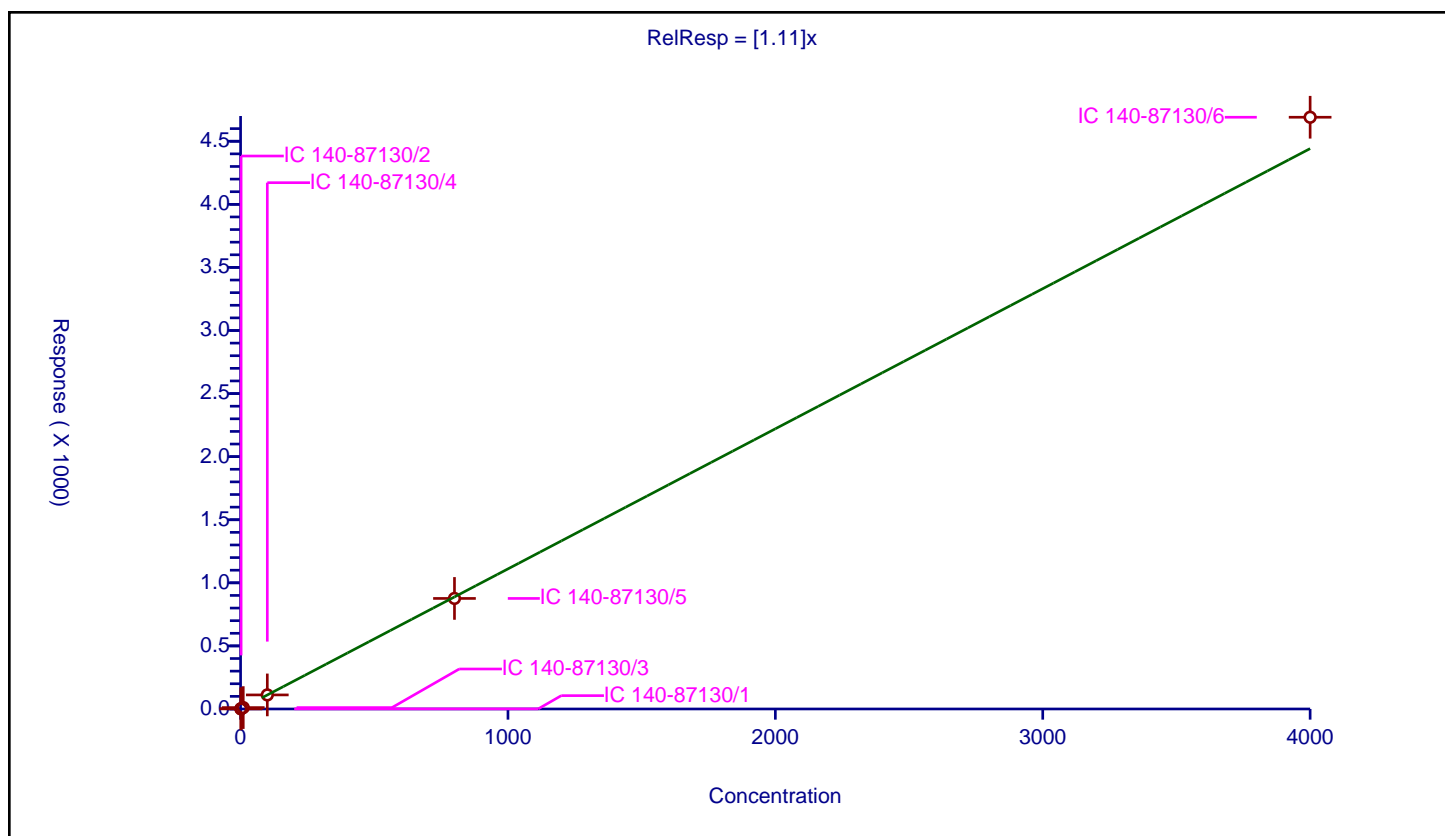
Curve Coefficients

Intercept: 0
Slope: 1.11

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.031781	200.0	17145311.0	1.031781	Y
2	IC 140-87130/2	2.0	2.281252	200.0	16075823.0	1.140626	Y
3	IC 140-87130/3	10.0	11.084466	200.0	15994835.0	1.108447	Y
4	IC 140-87130/4	100.0	111.389758	200.0	16048883.0	1.113898	Y
5	IC 140-87130/5	800.0	876.153157	200.0	16797326.0	1.095191	Y
6	IC 140-87130/6	4000.0	4690.374323	200.0	18003846.0	1.172594	Y



Calibration

/ PCB-156/157

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

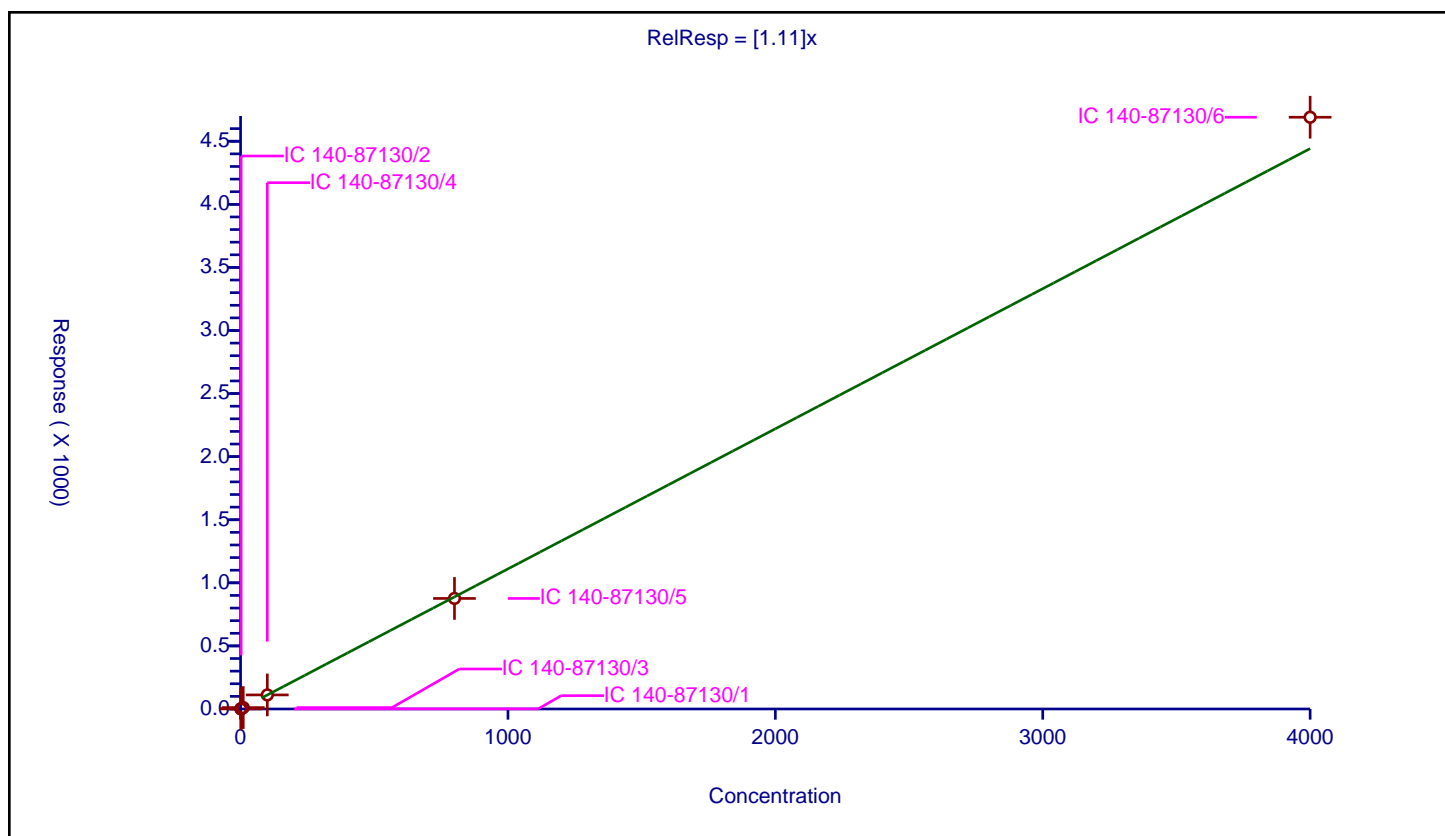
Curve Coefficients

Intercept: 0
Slope: 1.11

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.031781	200.0	17145311.0	1.031781	Y
2	IC 140-87130/2	2.0	2.281252	200.0	16075823.0	1.140626	Y
3	IC 140-87130/3	10.0	11.084466	200.0	15994835.0	1.108447	Y
4	IC 140-87130/4	100.0	111.389758	200.0	16048883.0	1.113898	Y
5	IC 140-87130/5	800.0	876.153157	200.0	16797326.0	1.095191	Y
6	IC 140-87130/6	4000.0	4690.374323	200.0	18003846.0	1.172594	Y



Calibration

/ PCB-157

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

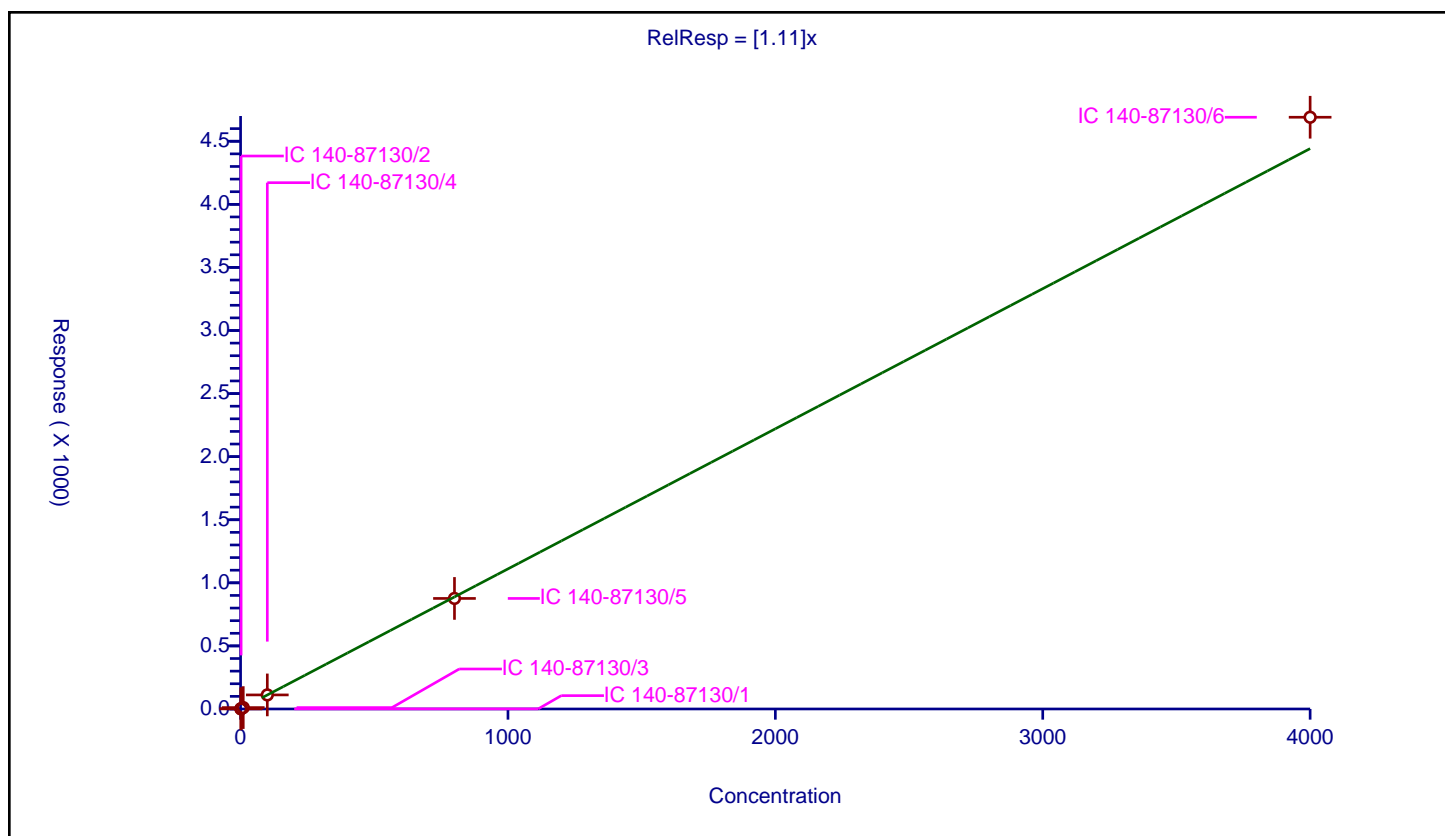
Curve Coefficients

Intercept: 0
Slope: 1.11

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.031781	200.0	17145311.0	1.031781	Y
2	IC 140-87130/2	2.0	2.281252	200.0	16075823.0	1.140626	Y
3	IC 140-87130/3	10.0	11.084466	200.0	15994835.0	1.108447	Y
4	IC 140-87130/4	100.0	111.389758	200.0	16048883.0	1.113898	Y
5	IC 140-87130/5	800.0	876.153157	200.0	16797326.0	1.095191	Y
6	IC 140-87130/6	4000.0	4690.374323	200.0	18003846.0	1.172594	Y



Calibration

/ PCB-158

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

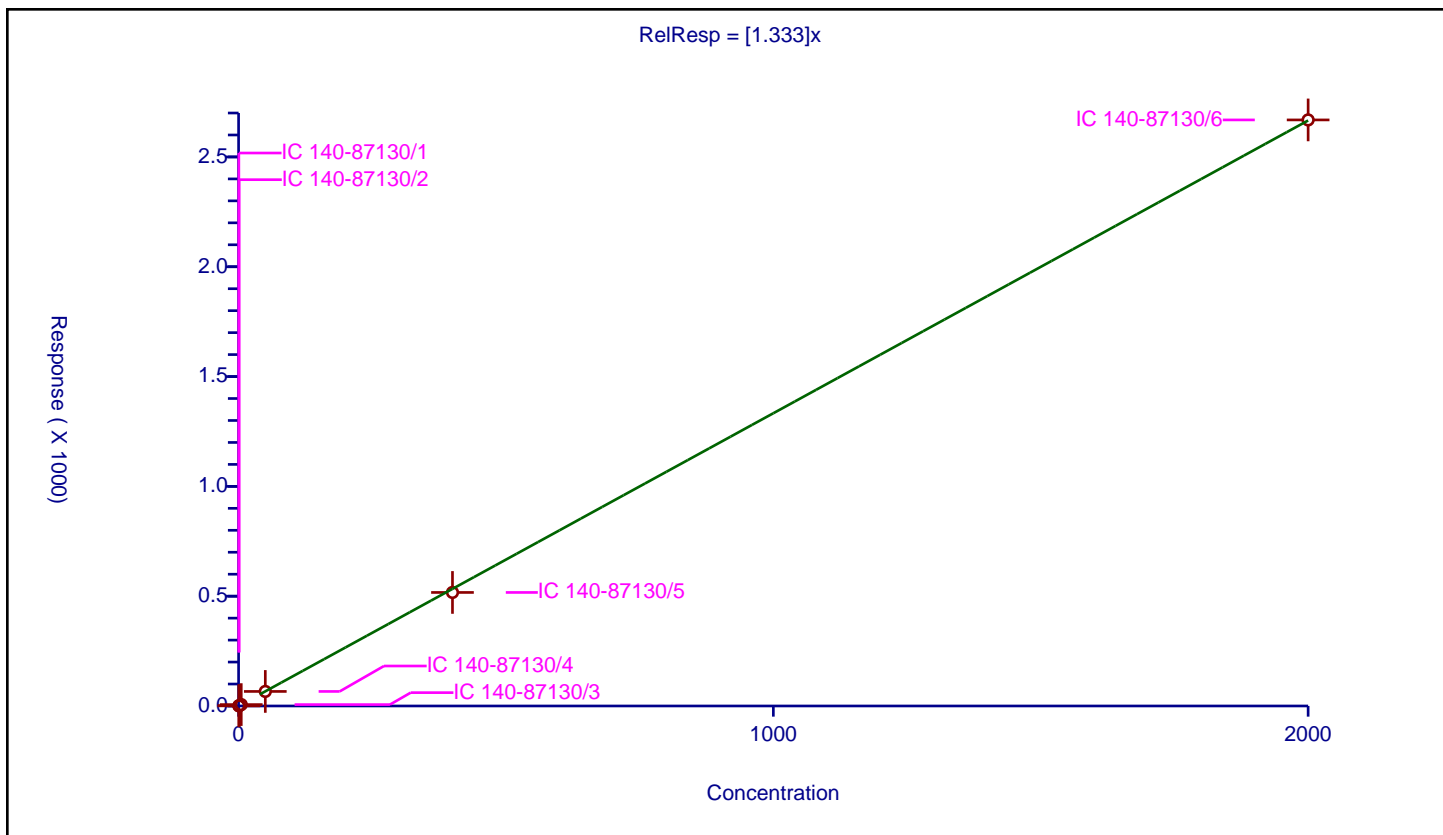
Curve Coefficients

Intercept: 0
Slope: 1.333

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.703294	200.0	17145311.0	1.406589	Y
2	IC 140-87130/2	1.0	1.363426	200.0	16075823.0	1.363426	Y
3	IC 140-87130/3	5.0	6.376583	200.0	15994835.0	1.275317	Y
4	IC 140-87130/4	50.0	66.29148	200.0	16048883.0	1.32583	Y
5	IC 140-87130/5	400.0	516.99842	200.0	16797326.0	1.292496	Y
6	IC 140-87130/6	2000.0	2668.60553	200.0	18003846.0	1.334303	Y



Calibration

/ PCB-159

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

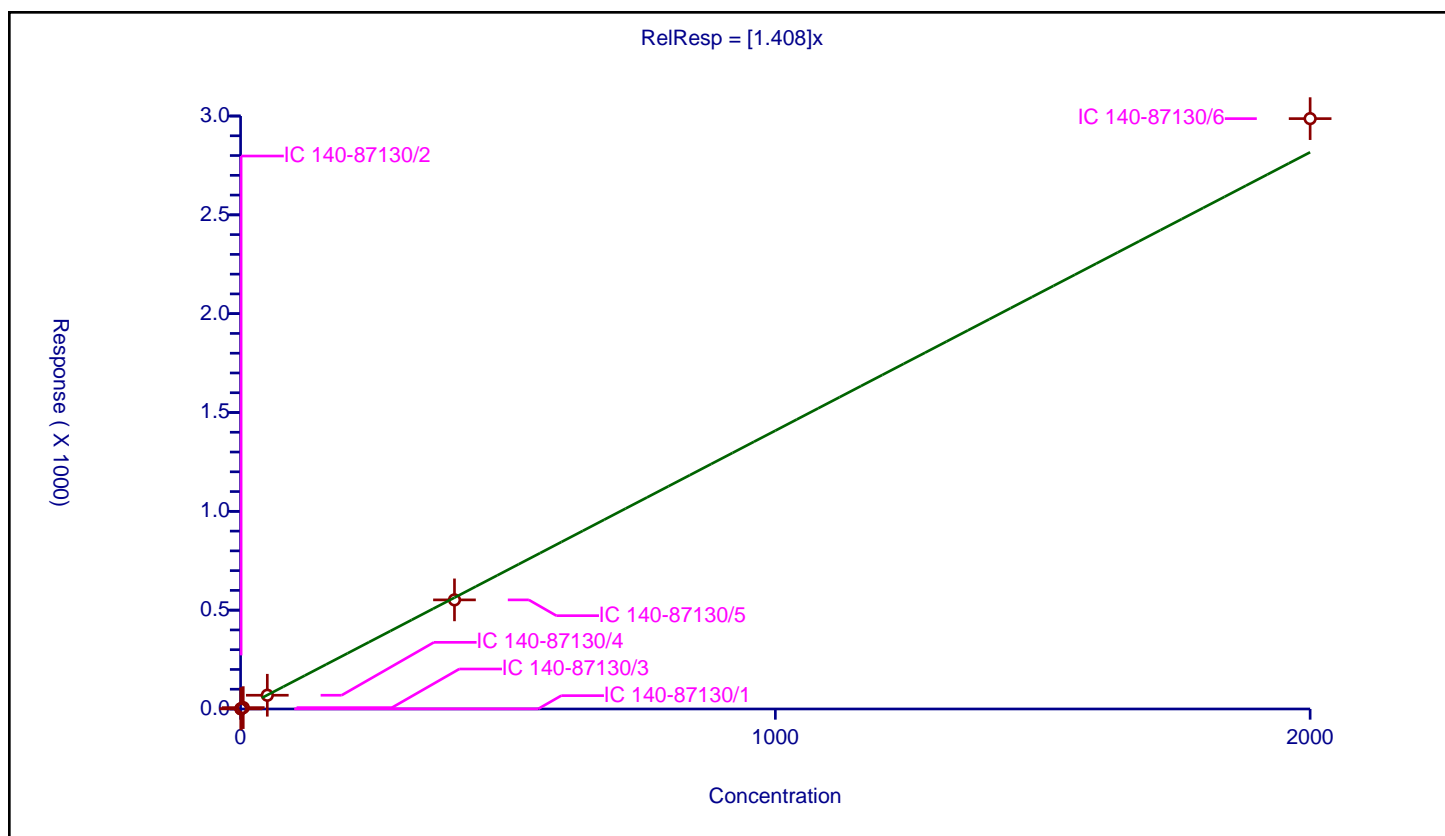
Curve Coefficients

Intercept: 0
Slope: 1.408

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.681014	200.0	17145311.0	1.362028	Y
2	IC 140-87130/2	1.0	1.428816	200.0	16075823.0	1.428816	Y
3	IC 140-87130/3	5.0	6.978053	200.0	15994835.0	1.395611	Y
4	IC 140-87130/4	50.0	69.519368	200.0	16048883.0	1.390387	Y
5	IC 140-87130/5	400.0	551.962318	200.0	16797326.0	1.379906	Y
6	IC 140-87130/6	2000.0	2986.779802	200.0	18003846.0	1.49339	Y



Calibration

/ PCB-159L

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

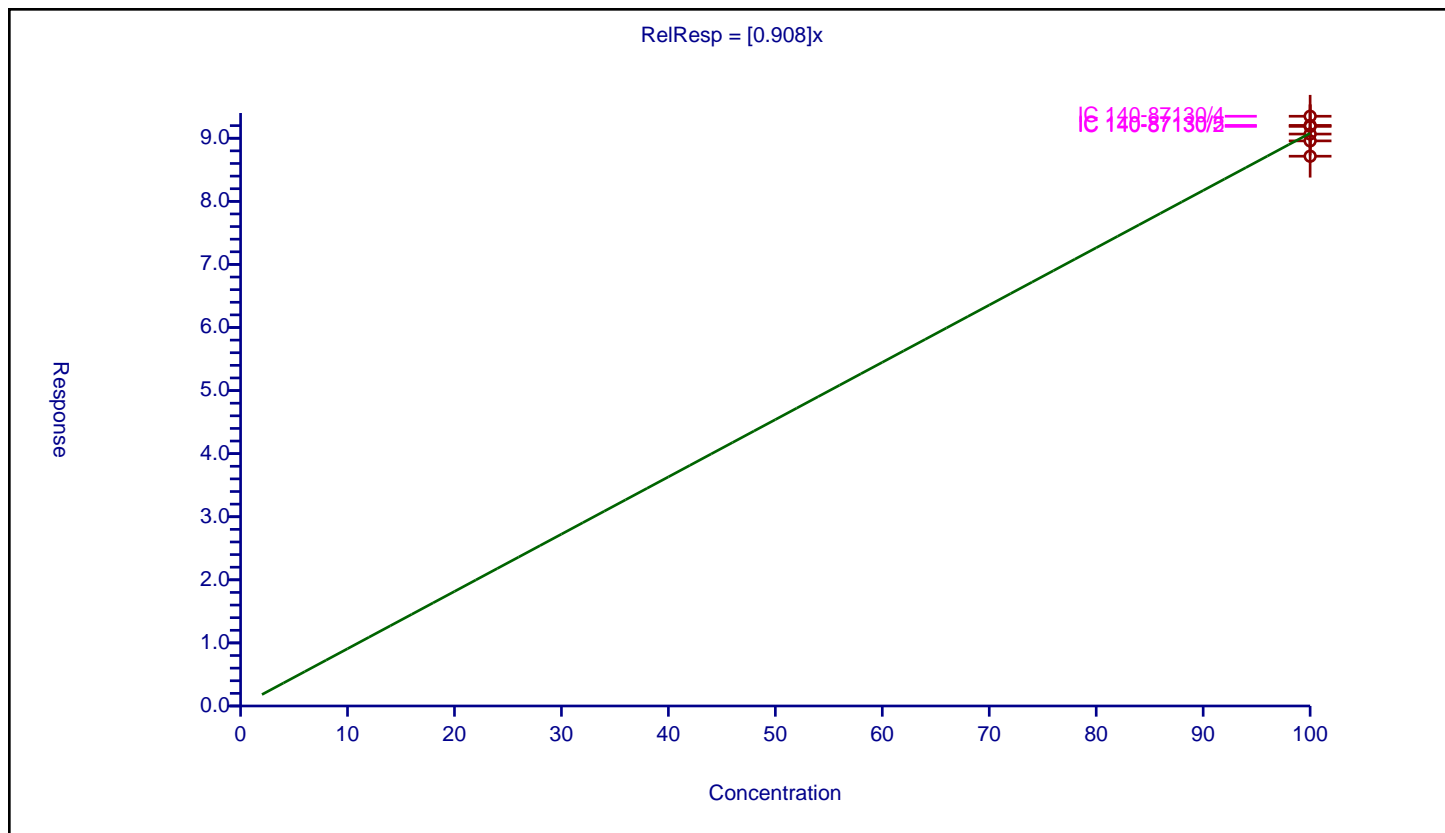
Curve Coefficients

Intercept: 0
Slope: 0.908

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	100.0	87.152373	100.0	9105316.0	0.871524	Y
2	IC 140-87130/2	100.0	91.879793	100.0	8343026.0	0.918798	Y
3	IC 140-87130/3	100.0	89.580502	100.0	8150383.0	0.895805	Y
4	IC 140-87130/4	100.0	93.486792	100.0	8329121.0	0.934868	Y
5	IC 140-87130/5	100.0	92.037683	100.0	8748546.0	0.920377	Y
6	IC 140-87130/6	100.0	90.665672	100.0	9296213.0	0.906657	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

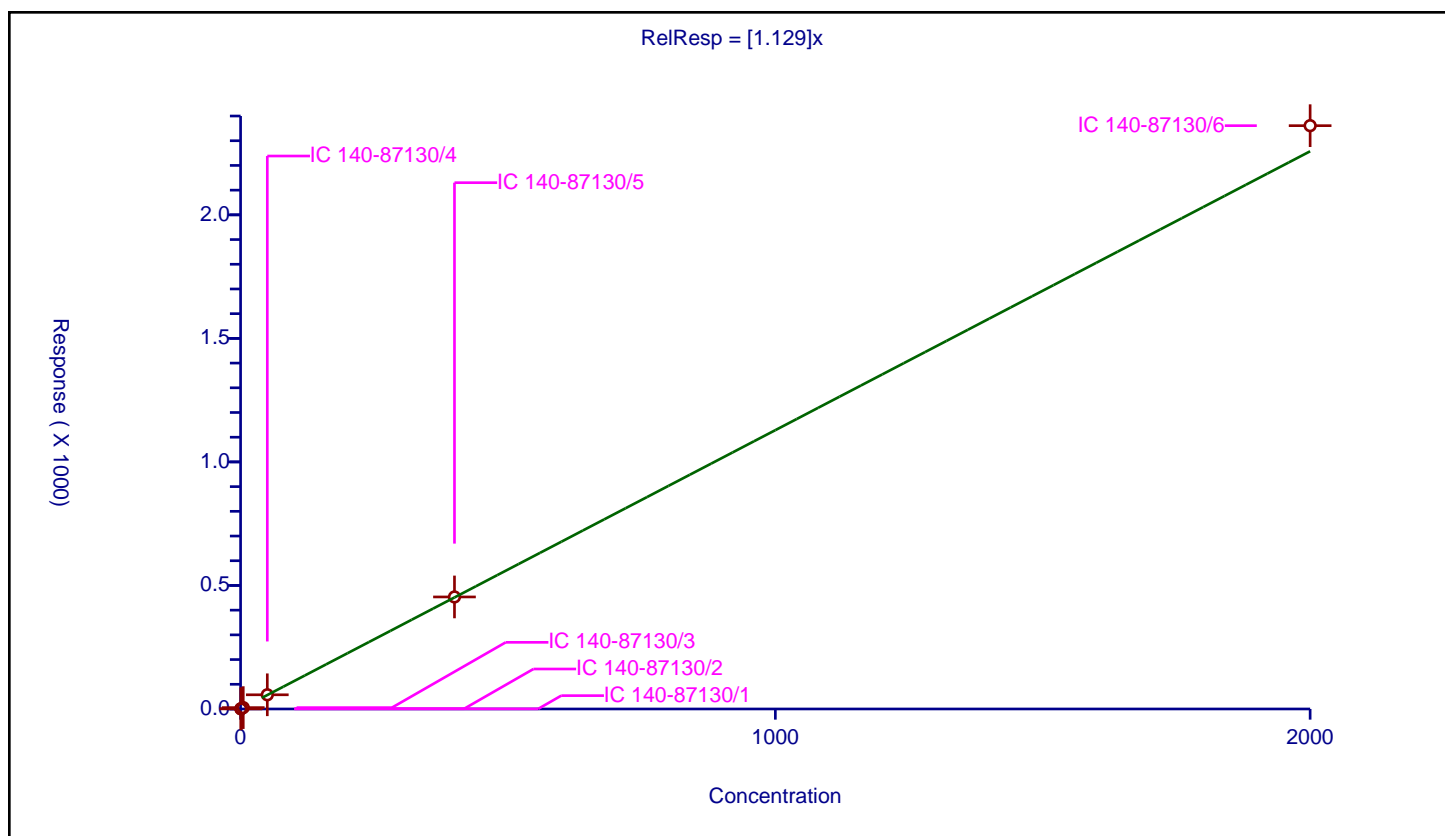
Curve Coefficients

Intercept: 0
Slope: 1.129

Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.563663	100.0	3711790.0	1.127327	Y
2	IC 140-87130/2	1.0	1.063131	100.0	3424036.0	1.063131	Y
3	IC 140-87130/3	5.0	5.582269	100.0	3389482.0	1.116454	Y
4	IC 140-87130/4	50.0	57.525798	100.0	3406868.0	1.150516	Y
5	IC 140-87130/5	400.0	453.425121	100.0	3537933.0	1.133563	Y
6	IC 140-87130/6	2000.0	2360.941314	100.0	3634856.0	1.180471	Y



Calibration

/ PCB-160

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

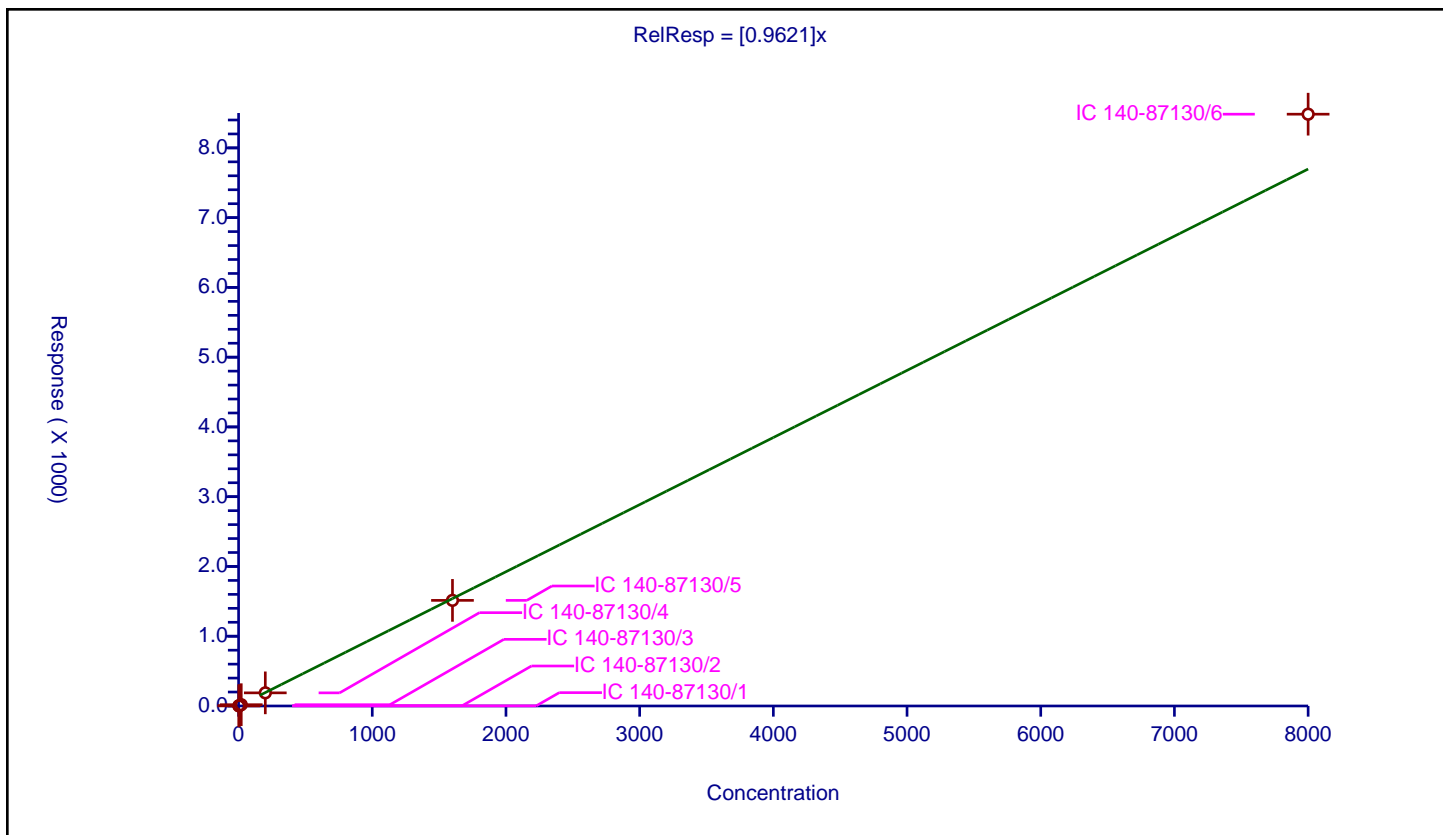
Curve Coefficients

Intercept: 0
 Slope: 0.9621

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



Calibration

/ PCB-161

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

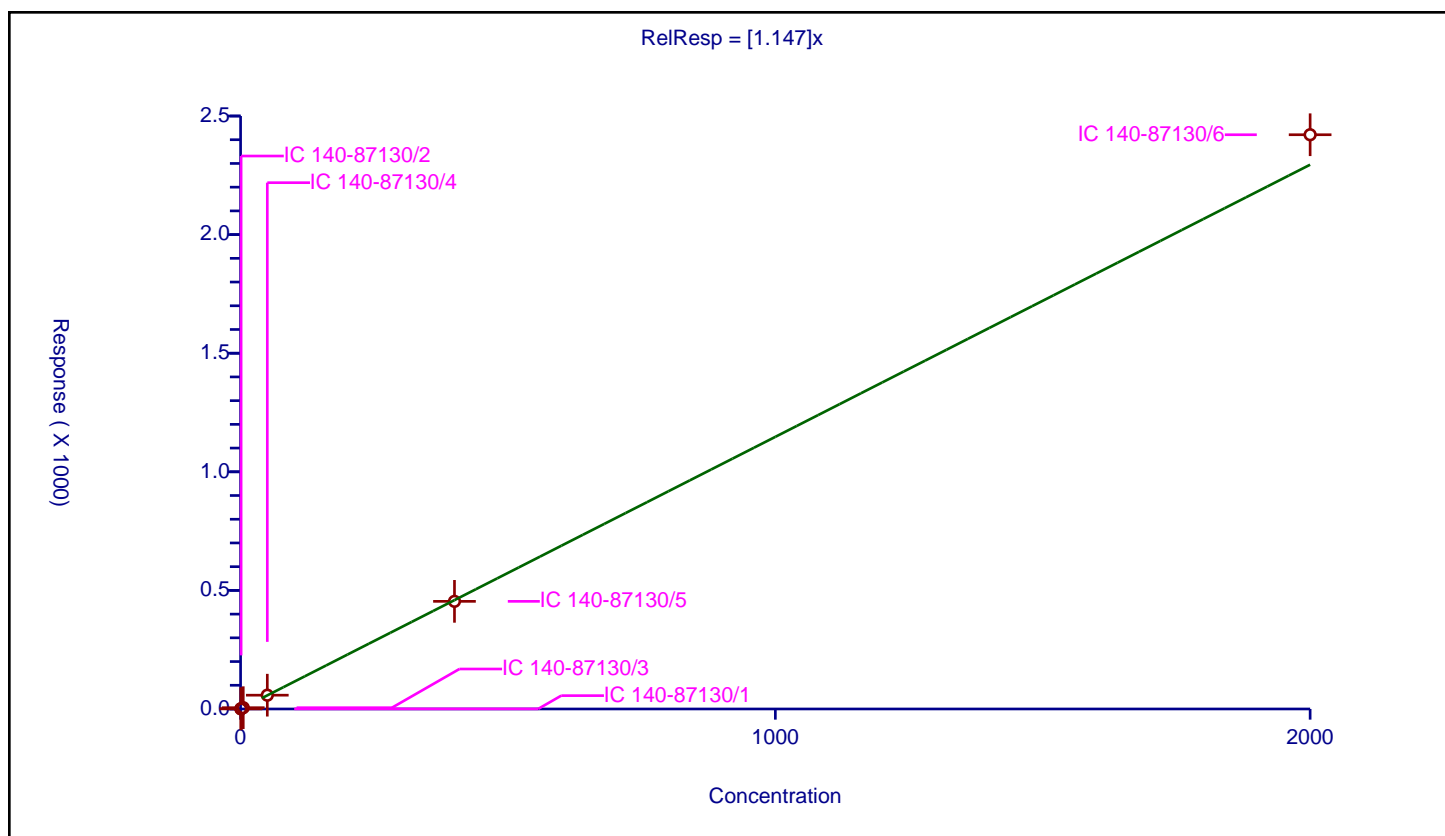
Curve Coefficients

Intercept: 0
Slope: 1.147

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.547625	200.0	17145311.0	1.09525	Y
2	IC 140-87130/2	1.0	1.183404	200.0	16075823.0	1.183404	Y
3	IC 140-87130/3	5.0	5.486896	200.0	15994835.0	1.097379	Y
4	IC 140-87130/4	50.0	58.148246	200.0	16048883.0	1.162965	Y
5	IC 140-87130/5	400.0	453.808231	200.0	16797326.0	1.134521	Y
6	IC 140-87130/6	2000.0	2421.10969	200.0	18003846.0	1.210555	Y



Calibration

/ PCB-162

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

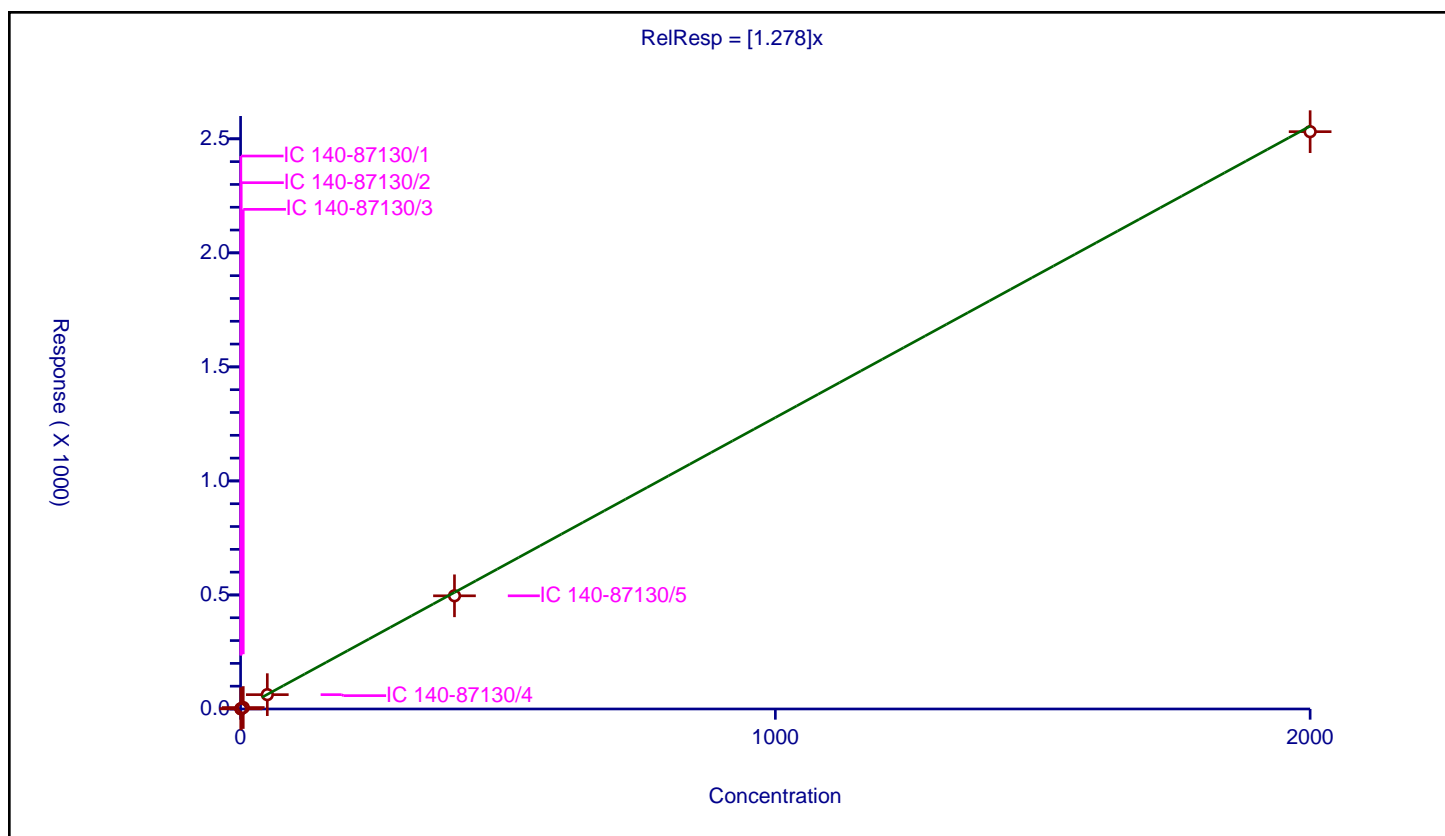
Curve Coefficients

Intercept: 0
Slope: 1.278

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.645086	200.0	17145311.0	1.290172	Y
2	IC 140-87130/2	1.0	1.327895	200.0	16075823.0	1.327895	Y
3	IC 140-87130/3	5.0	6.422936	200.0	15994835.0	1.284587	Y
4	IC 140-87130/4	50.0	62.887355	200.0	16048883.0	1.257747	Y
5	IC 140-87130/5	400.0	496.326558	200.0	16797326.0	1.240816	Y
6	IC 140-87130/6	2000.0	2531.405701	200.0	18003846.0	1.265703	Y



Calibration

/ PCB-163

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

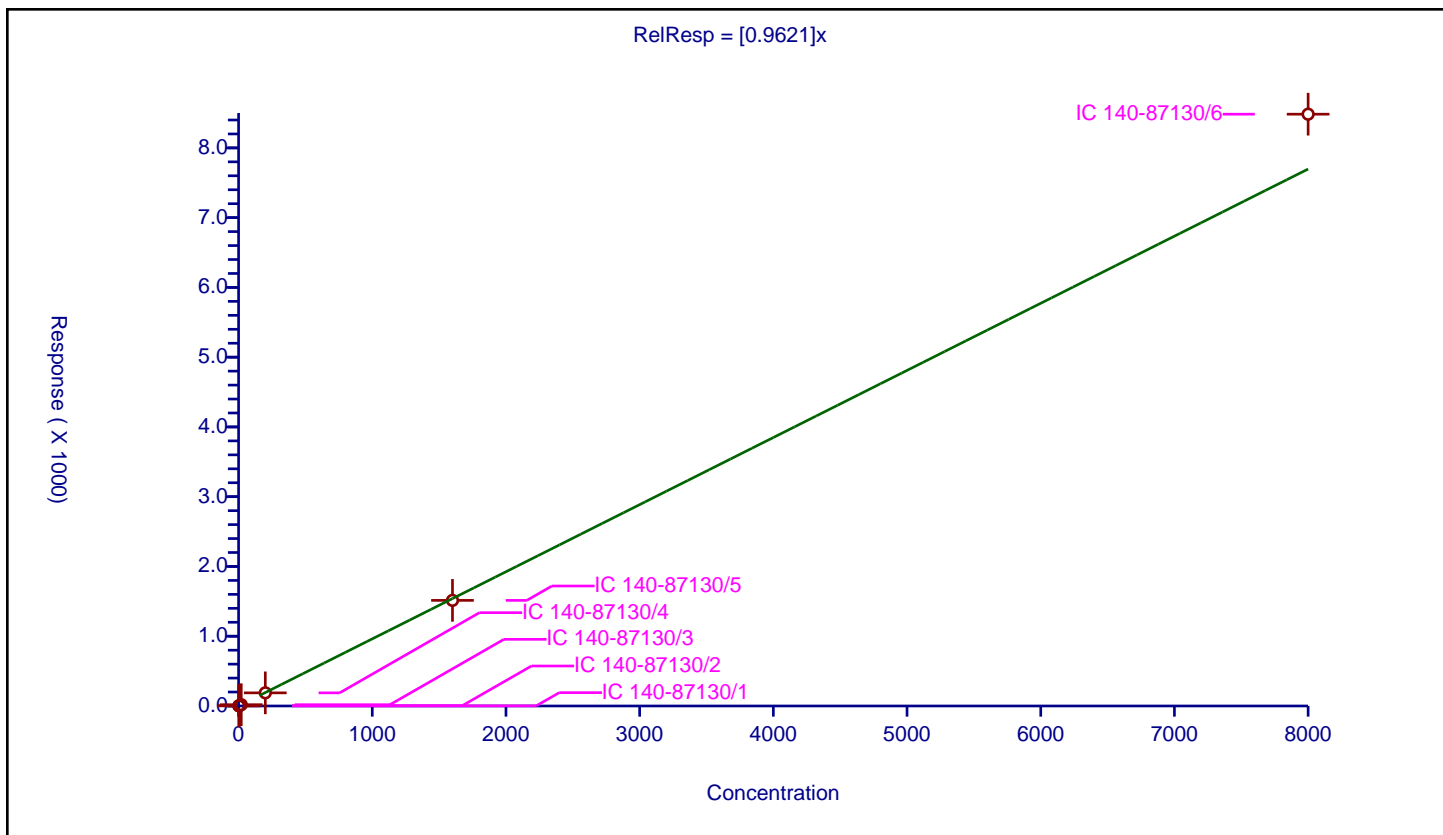
Curve Coefficients

Intercept: 0
 Slope: 0.9621

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

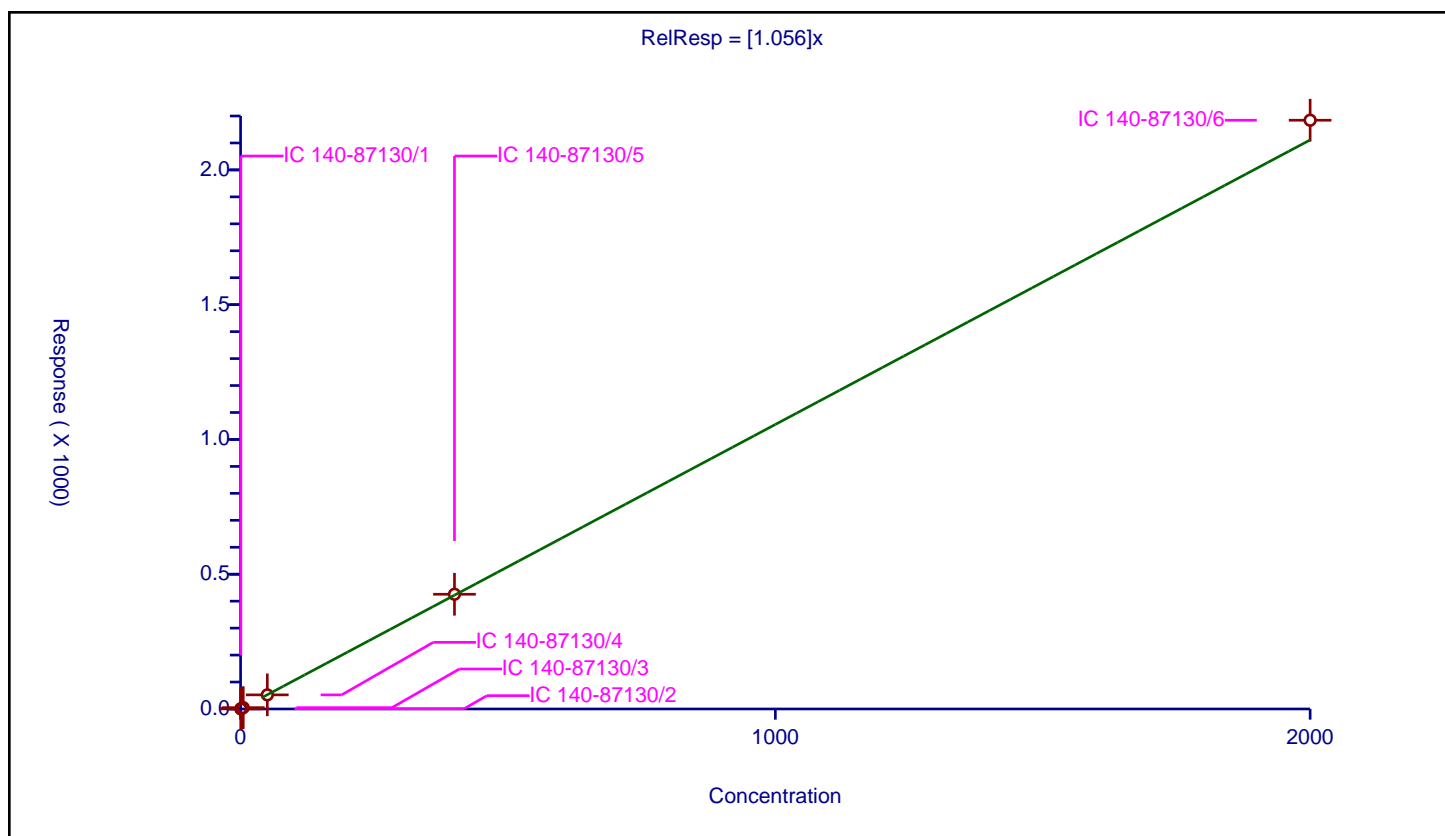
Curve Coefficients

Intercept: 0
Slope: 1.056

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.542002	200.0	17145311.0	1.084005	Y
2	IC 140-87130/2	1.0	1.043891	200.0	16075823.0	1.043891	Y
3	IC 140-87130/3	5.0	5.01168	200.0	15994835.0	1.002336	Y
4	IC 140-87130/4	50.0	52.342334	200.0	16048883.0	1.046847	Y
5	IC 140-87130/5	400.0	425.718332	200.0	16797326.0	1.064296	Y
6	IC 140-87130/6	2000.0	2184.389236	200.0	18003846.0	1.092195	Y



Calibration

/ PCB-165

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

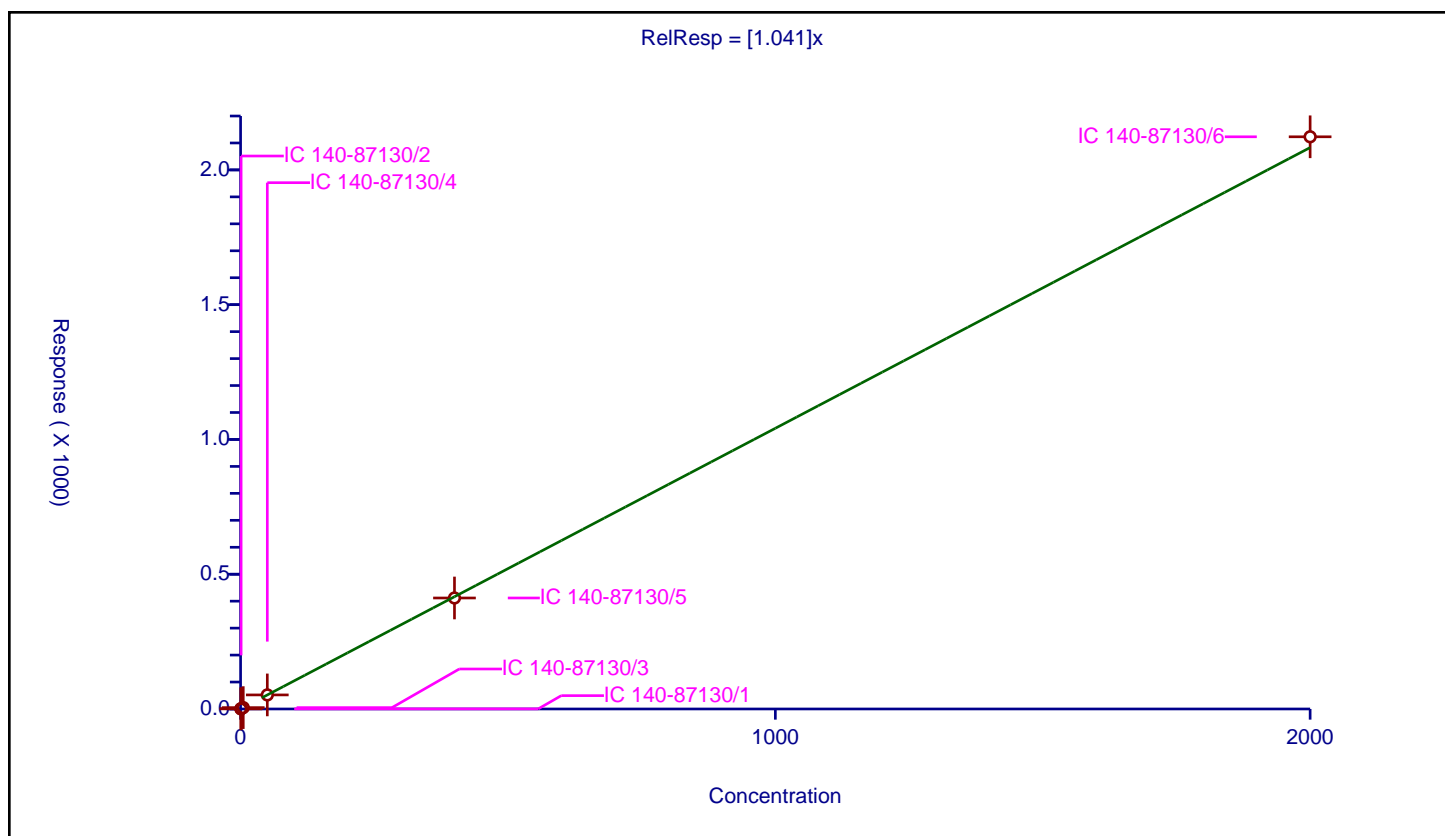
Curve Coefficients

Intercept: 0
 Slope: 1.041

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.492858	200.0	17145311.0	0.985716	Y
2	IC 140-87130/2	1.0	1.107303	200.0	16075823.0	1.107303	Y
3	IC 140-87130/3	5.0	5.106886	200.0	15994835.0	1.021377	Y
4	IC 140-87130/4	50.0	52.176852	200.0	16048883.0	1.043537	Y
5	IC 140-87130/5	400.0	411.833276	200.0	16797326.0	1.029583	Y
6	IC 140-87130/6	2000.0	2122.946042	200.0	18003846.0	1.061473	Y



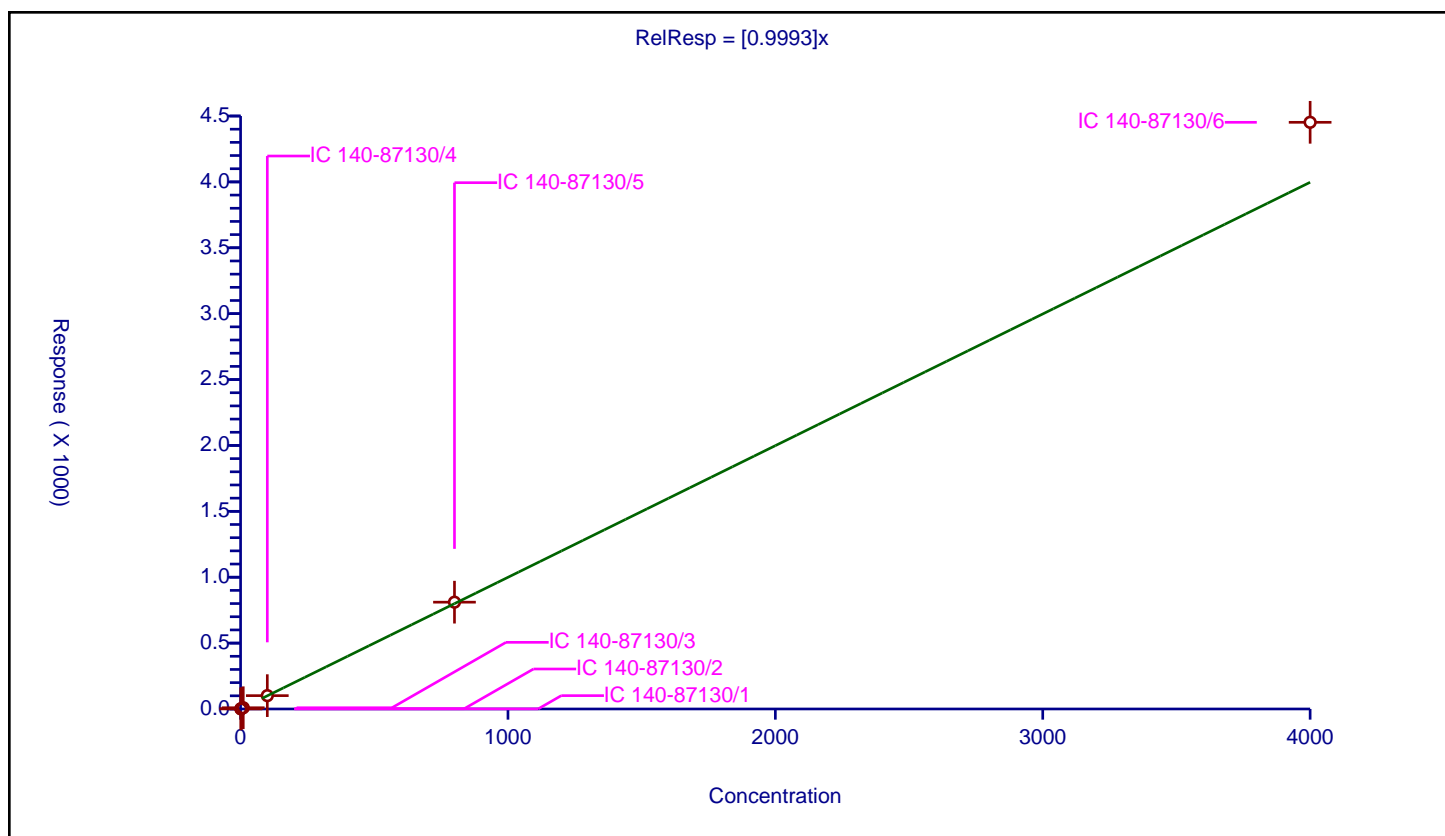
/ PCB-166

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.978717	200.0	17145311.0	0.978717	Y
2	IC 140-87130/2	2.0	1.885788	200.0	16075823.0	0.942894	Y
3	IC 140-87130/3	10.0	9.351869	200.0	15994835.0	0.935187	Y
4	IC 140-87130/4	100.0	101.248978	200.0	16048883.0	1.01249	Y
5	IC 140-87130/5	800.0	810.572802	200.0	16797326.0	1.013216	Y
6	IC 140-87130/6	4000.0	4452.331241	200.0	18003846.0	1.113083	Y



Calibration

/ PCB-167

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

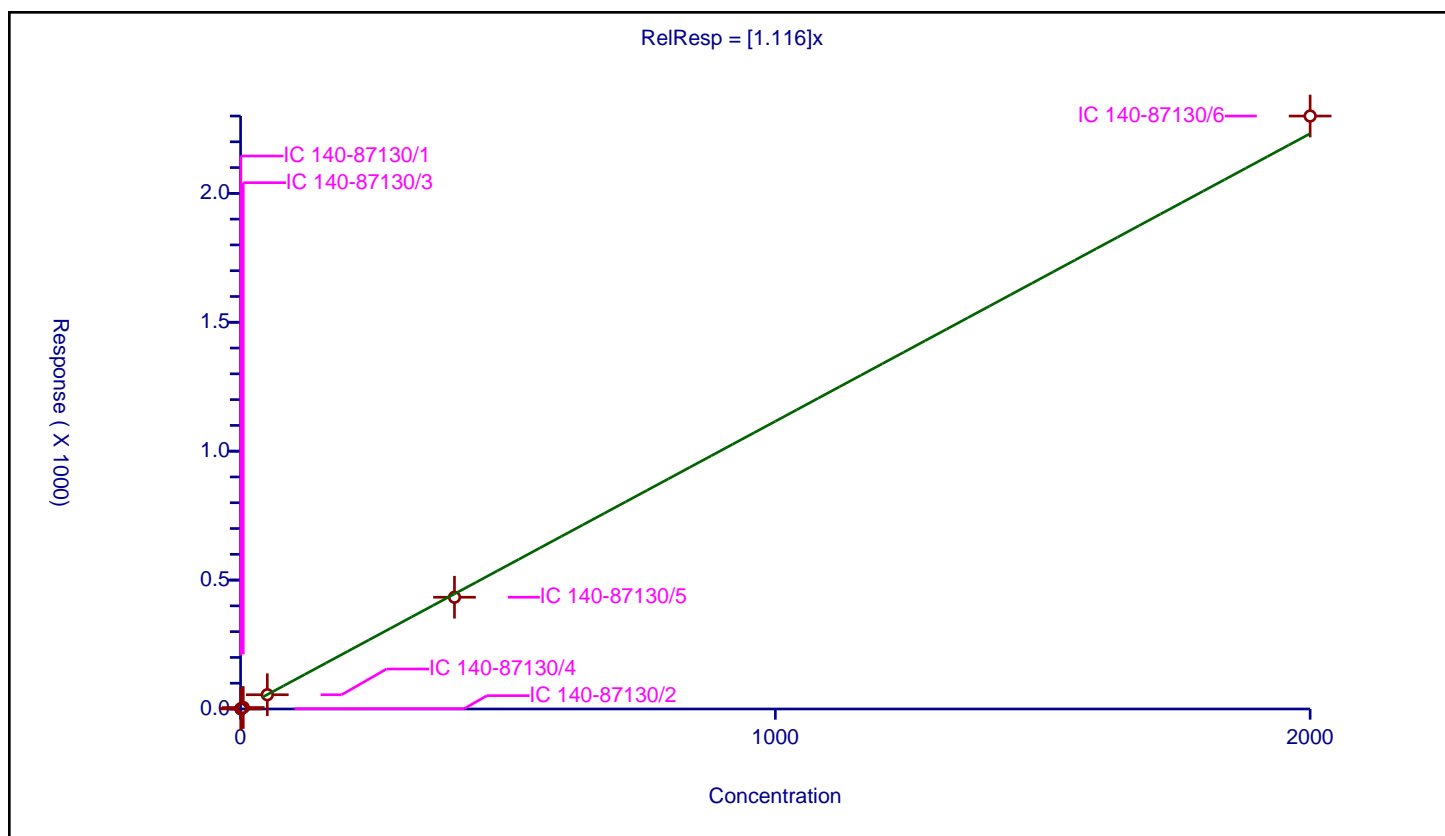
Curve Coefficients

Intercept: 0
Slope: 1.116

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.562594	100.0	9105316.0	1.125189	Y
2	IC 140-87130/2	1.0	1.089125	100.0	8343026.0	1.089125	Y
3	IC 140-87130/3	5.0	5.704848	100.0	8150383.0	1.14097	Y
4	IC 140-87130/4	50.0	55.325958	100.0	8329121.0	1.106519	Y
5	IC 140-87130/5	400.0	433.408409	100.0	8748546.0	1.083521	Y
6	IC 140-87130/6	2000.0	2299.944203	100.0	9296213.0	1.149972	Y



Calibration

/ PCB-168

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

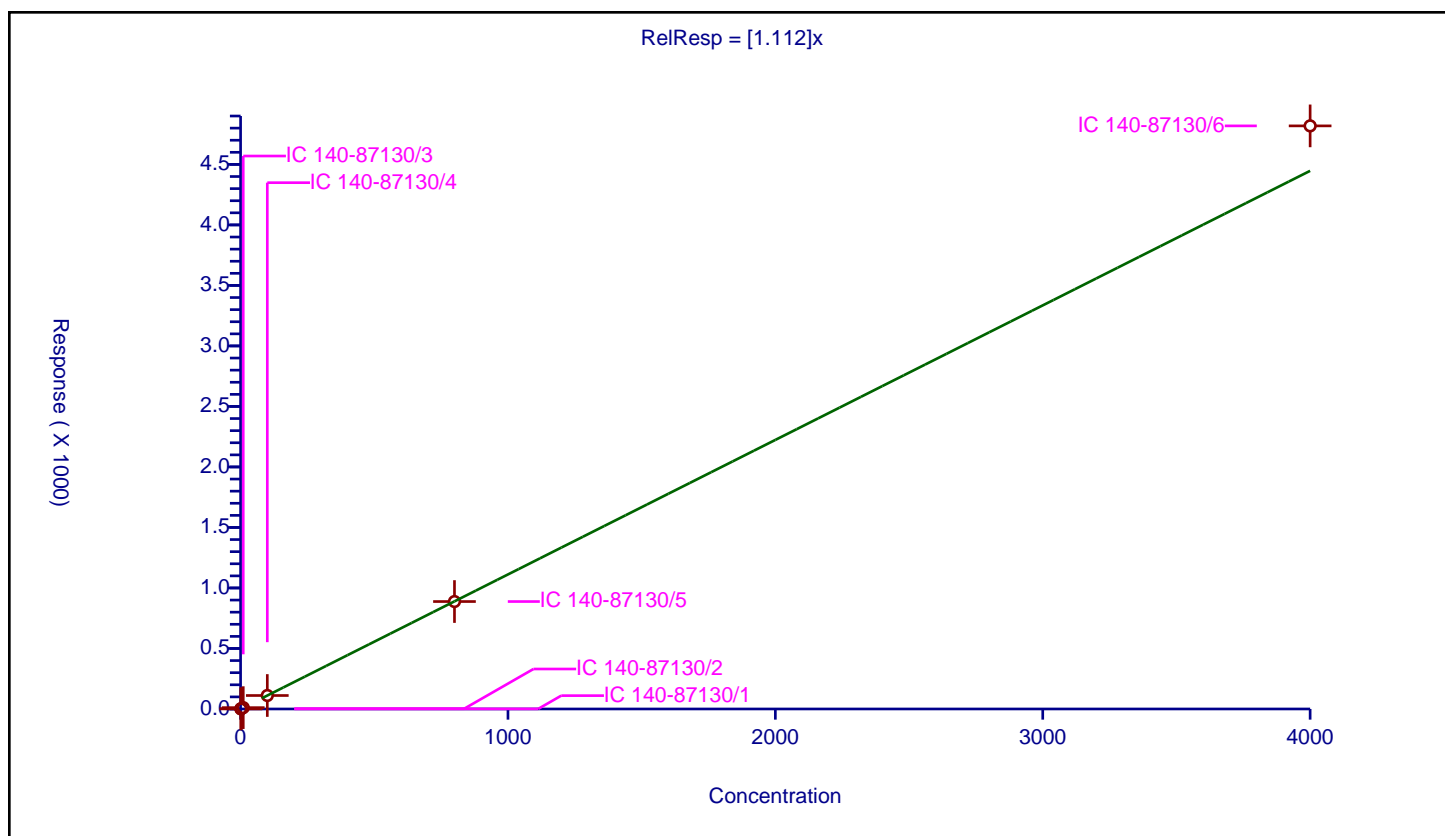
Curve Coefficients

Intercept: 0
 Slope: 1.112

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.08579	200.0	17145311.0	1.08579	Y
2	IC 140-87130/2	2.0	2.076199	200.0	16075823.0	1.038099	Y
3	IC 140-87130/3	10.0	11.172444	200.0	15994835.0	1.117244	Y
4	IC 140-87130/4	100.0	111.466549	200.0	16048883.0	1.114665	Y
5	IC 140-87130/5	800.0	887.904587	200.0	16797326.0	1.109881	Y
6	IC 140-87130/6	4000.0	4818.405545	200.0	18003846.0	1.204601	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

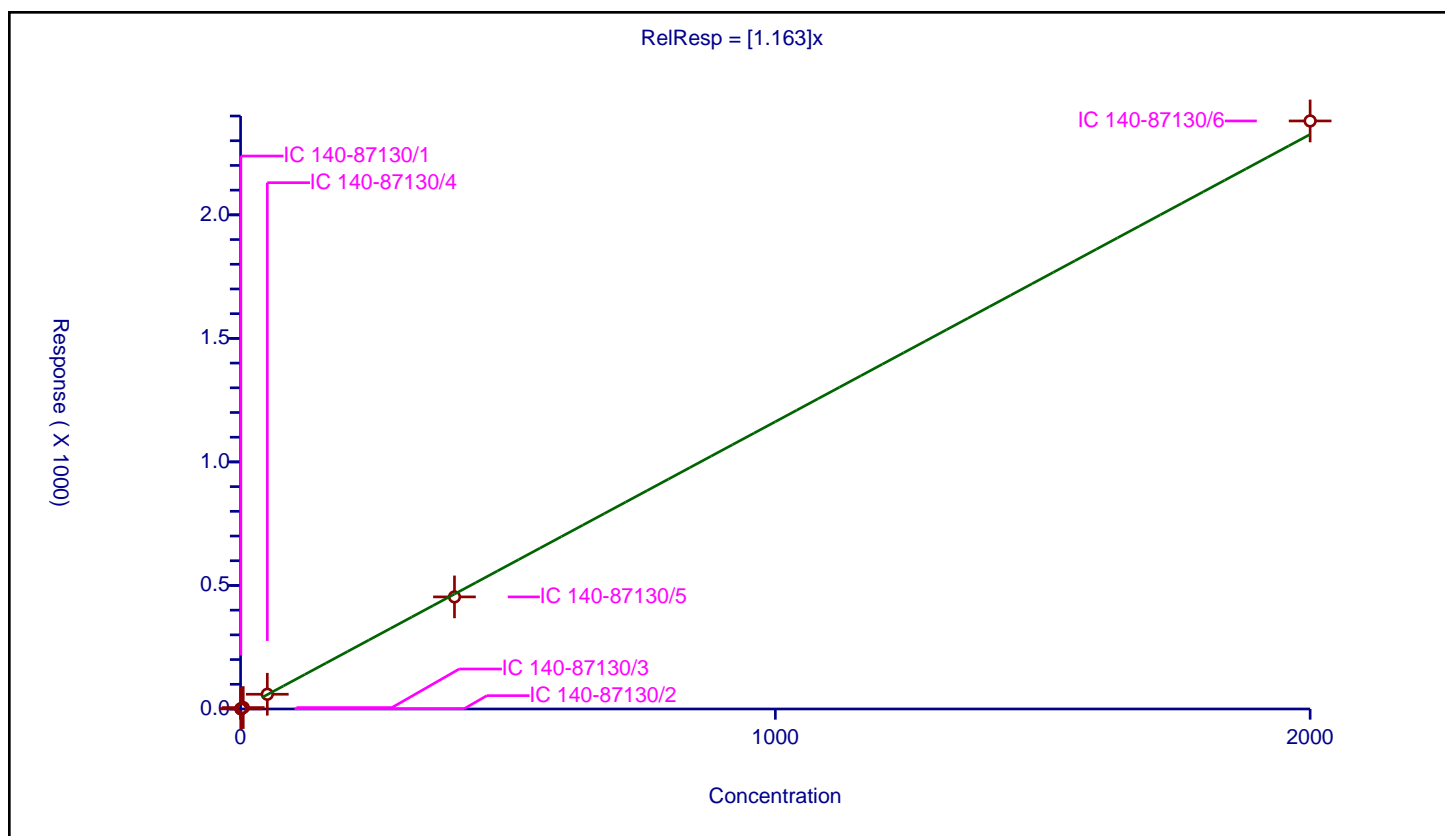
Curve Coefficients

Intercept: 0
Slope: 1.163

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.598025	100.0	9181390.0	1.19605	Y
2	IC 140-87130/2	1.0	1.109058	100.0	8243482.0	1.109058	Y
3	IC 140-87130/3	5.0	5.774115	100.0	7844285.0	1.154823	Y
4	IC 140-87130/4	50.0	59.649033	100.0	8145884.0	1.192981	Y
5	IC 140-87130/5	400.0	453.642676	100.0	8761705.0	1.134107	Y
6	IC 140-87130/6	2000.0	2380.008853	100.0	9278382.0	1.190004	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

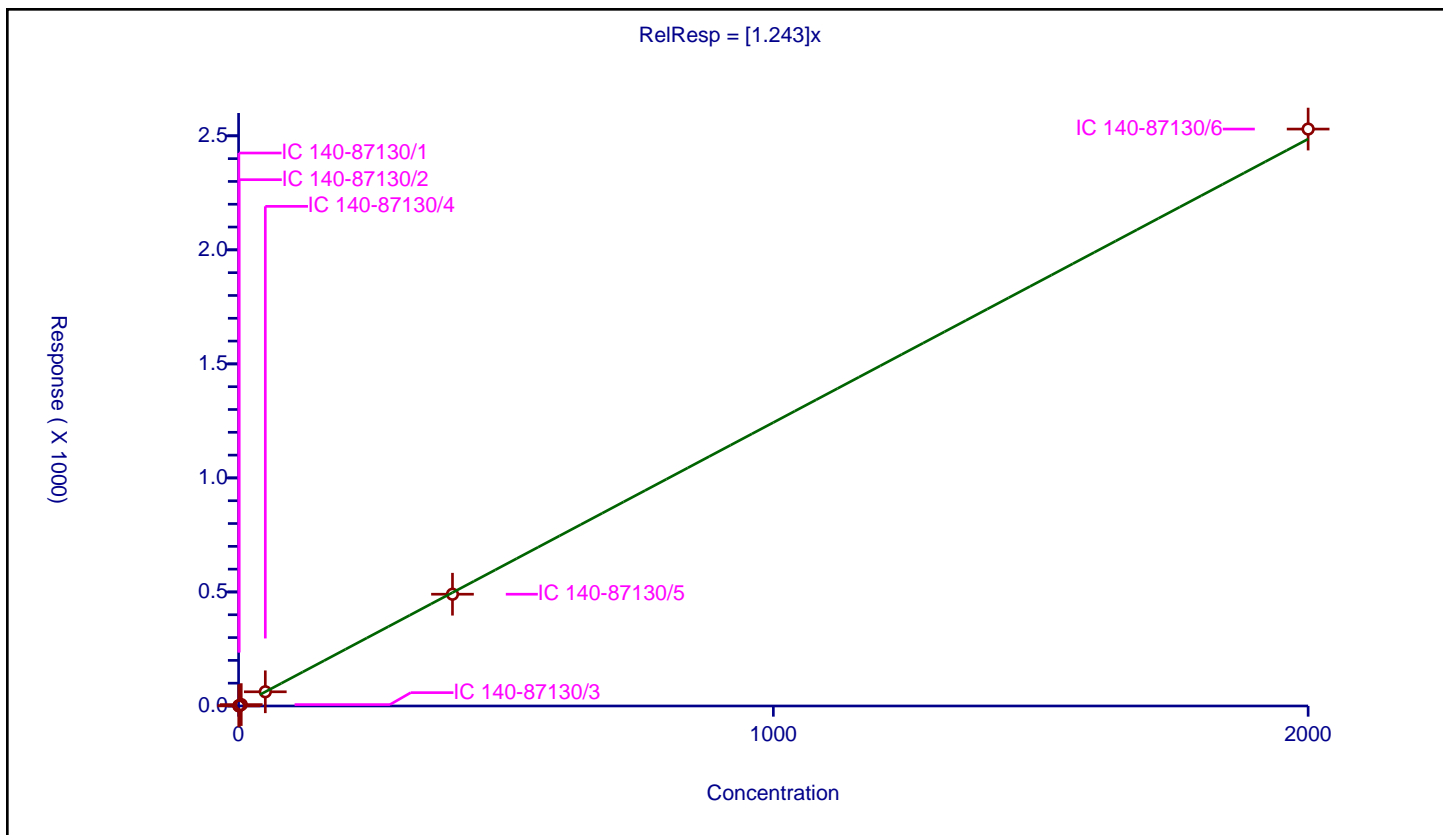
Curve Coefficients

Intercept: 0
Slope: 1.243

Error Coefficients

Relative Standard Deviation: 1.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.624146	100.0	3711790.0	1.248293	Y
2	IC 140-87130/2	1.0	1.257347	100.0	3424036.0	1.257347	Y
3	IC 140-87130/3	5.0	6.082463	100.0	3389482.0	1.216493	Y
4	IC 140-87130/4	50.0	62.293197	100.0	3406868.0	1.245864	Y
5	IC 140-87130/5	400.0	490.092859	100.0	3537933.0	1.225232	Y
6	IC 140-87130/6	2000.0	2529.630527	100.0	3634856.0	1.264815	Y



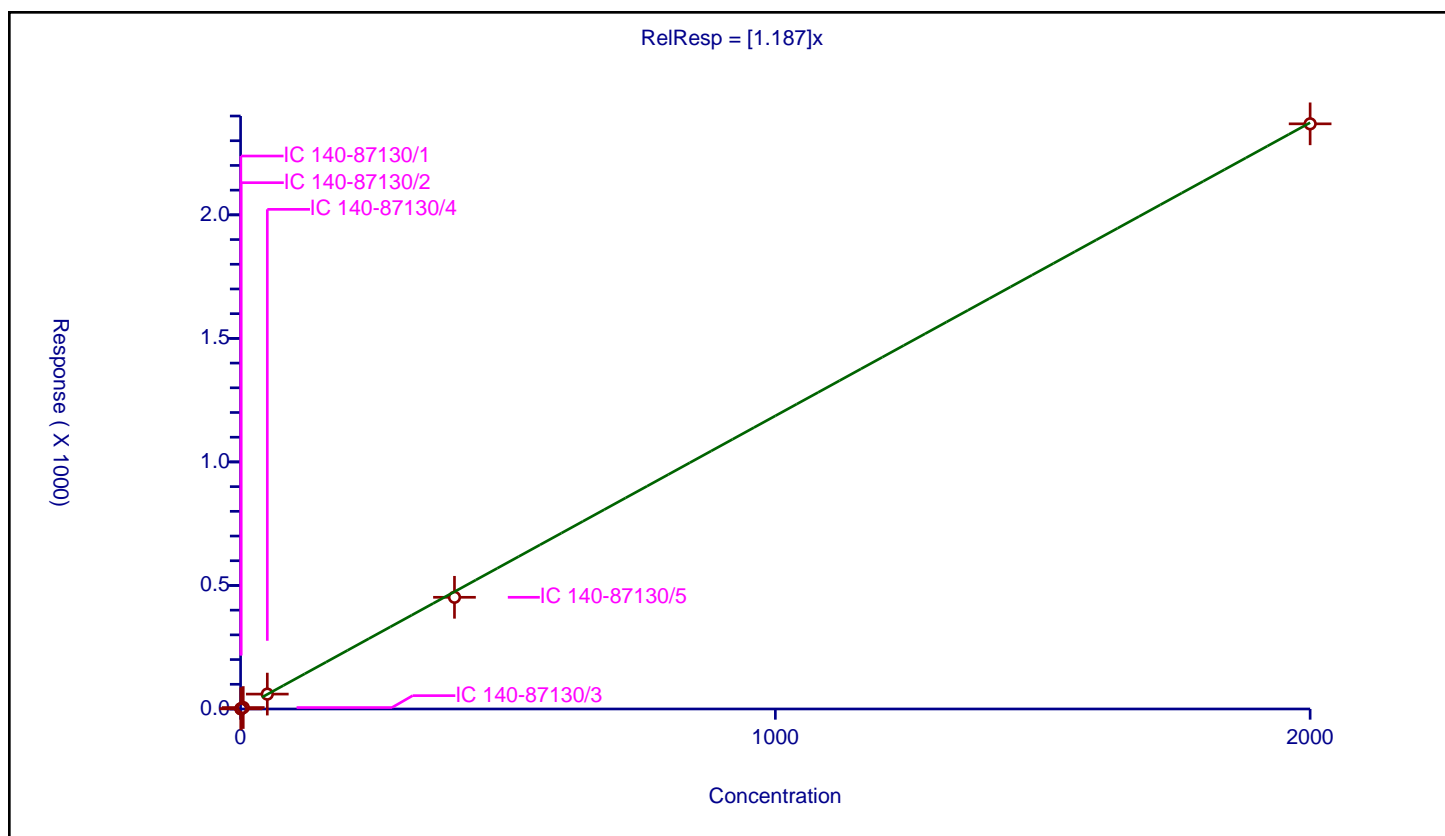
/ PCB-170

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.609129	100.0	4764508.0	1.218258	Y
2	IC 140-87130/2	1.0	1.210137	100.0	4277780.0	1.210137	Y
3	IC 140-87130/3	5.0	5.856648	100.0	4357834.0	1.17133	Y
4	IC 140-87130/4	50.0	60.243724	100.0	4156589.0	1.204874	Y
5	IC 140-87130/5	400.0	452.105989	100.0	4386822.0	1.130265	Y
6	IC 140-87130/6	2000.0	2368.397586	100.0	4404173.0	1.184199	Y



Calibration

/ PCB-171

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

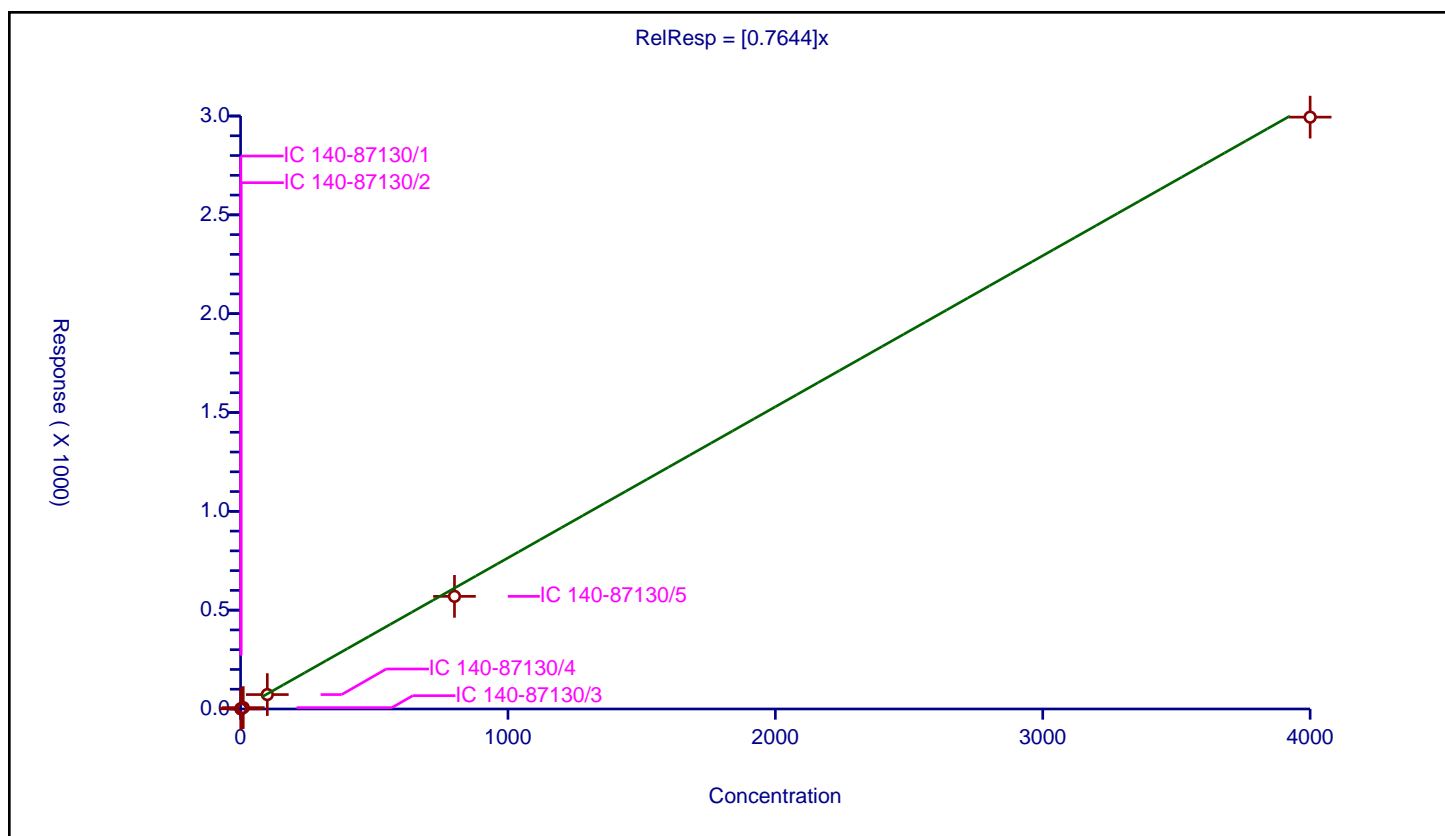
Curve Coefficients

Intercept: 0
 Slope: 0.7644

Error Coefficients

Relative Standard Deviation: 8.8

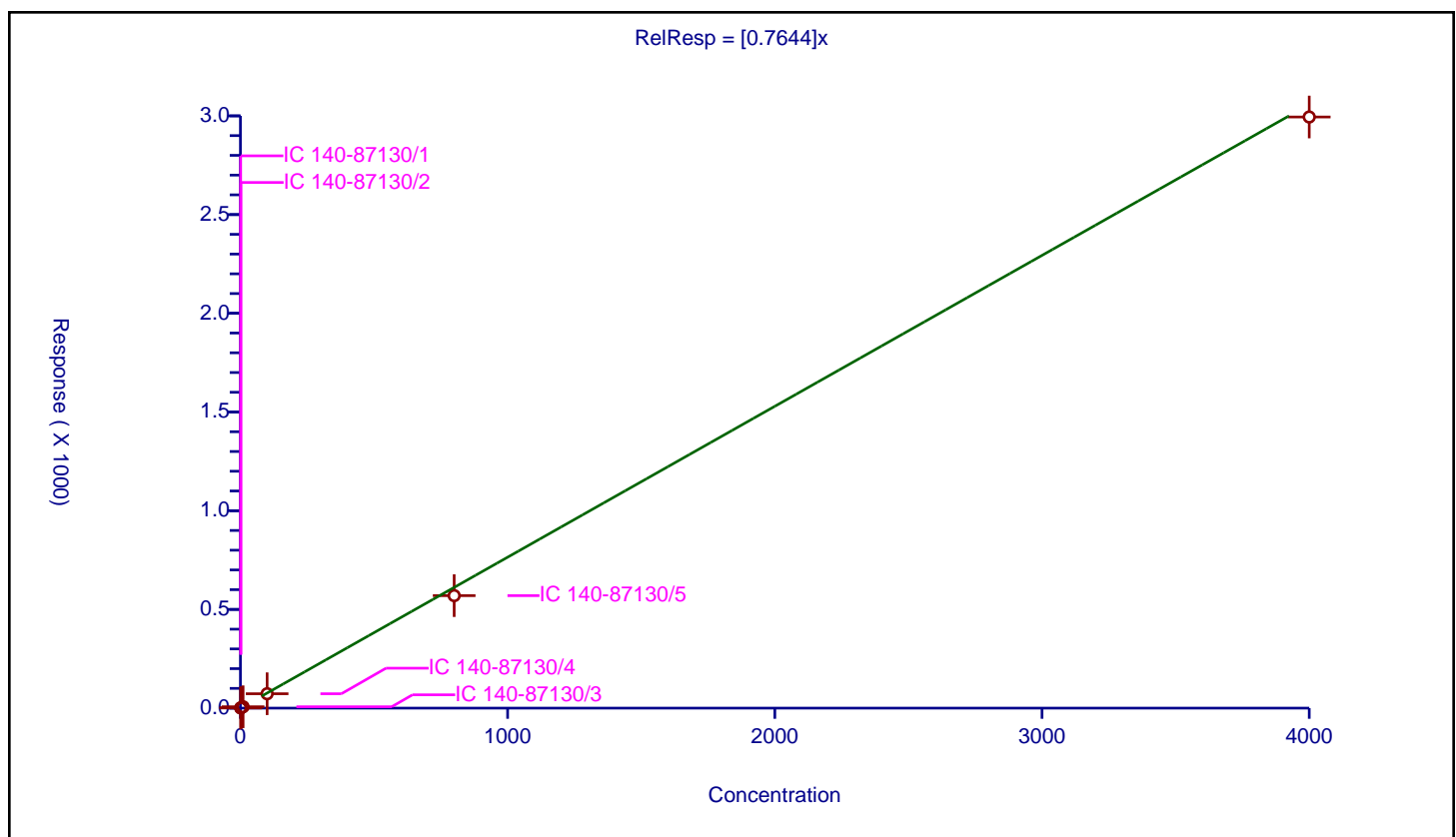
ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.849611	100.0	7116082.0	0.849611	Y
2	IC 140-87130/2	2.0	1.696349	100.0	6585200.0	0.848175	Y
3	IC 140-87130/3	10.0	6.987251	100.0	6664037.0	0.698725	Y
4	IC 140-87130/4	100.0	72.935277	100.0	6587579.0	0.729353	Y
5	IC 140-87130/5	800.0	569.795232	100.0	7006215.0	0.712244	Y
6	IC 140-87130/6	4000.0	2994.305697	100.0	7440630.0	0.748576	Y



/ PCB-171/173

Curve Coefficients	
Intercept:	0
Slope:	0.7644
Error Coefficients	
Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.849611	100.0	7116082.0	0.849611	Y
2	IC 140-87130/2	2.0	1.696349	100.0	6585200.0	0.848175	Y
3	IC 140-87130/3	10.0	6.987251	100.0	6664037.0	0.698725	Y
4	IC 140-87130/4	100.0	72.935277	100.0	6587579.0	0.729353	Y
5	IC 140-87130/5	800.0	569.795232	100.0	7006215.0	0.712244	Y
6	IC 140-87130/6	4000.0	2994.305697	100.0	7440630.0	0.748576	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

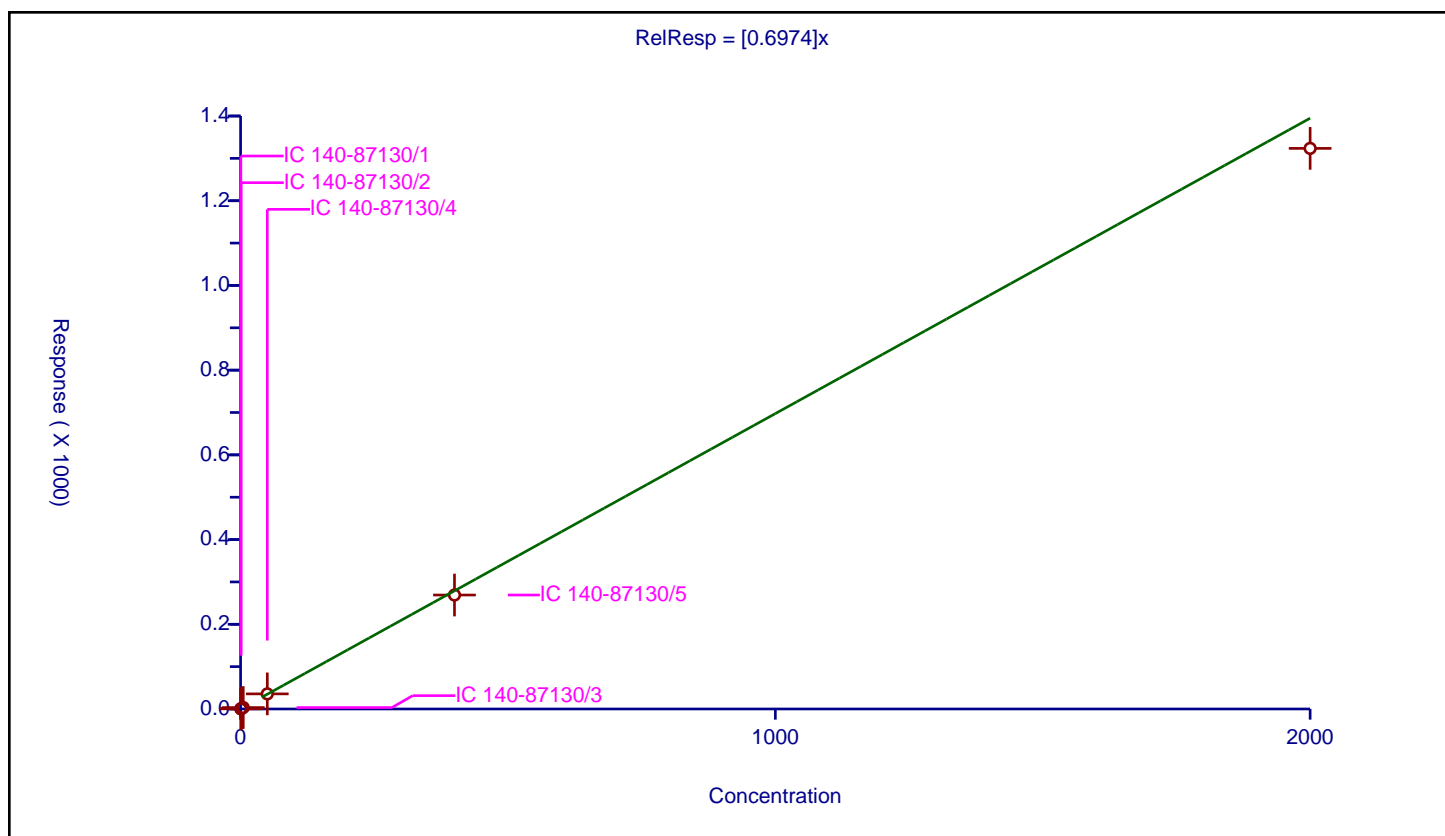
Curve Coefficients

Intercept: 0
Slope: 0.6974

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.371412	100.0	7116082.0	0.742824	Y
2	IC 140-87130/2	1.0	0.716652	100.0	6585200.0	0.716652	Y
3	IC 140-87130/3	5.0	3.389327	100.0	6664037.0	0.677865	Y
4	IC 140-87130/4	50.0	35.642275	100.0	6587579.0	0.712845	Y
5	IC 140-87130/5	400.0	269.045469	100.0	7006215.0	0.672614	Y
6	IC 140-87130/6	2000.0	1323.549578	100.0	7440630.0	0.661775	Y



Calibration

/ PCB-173

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

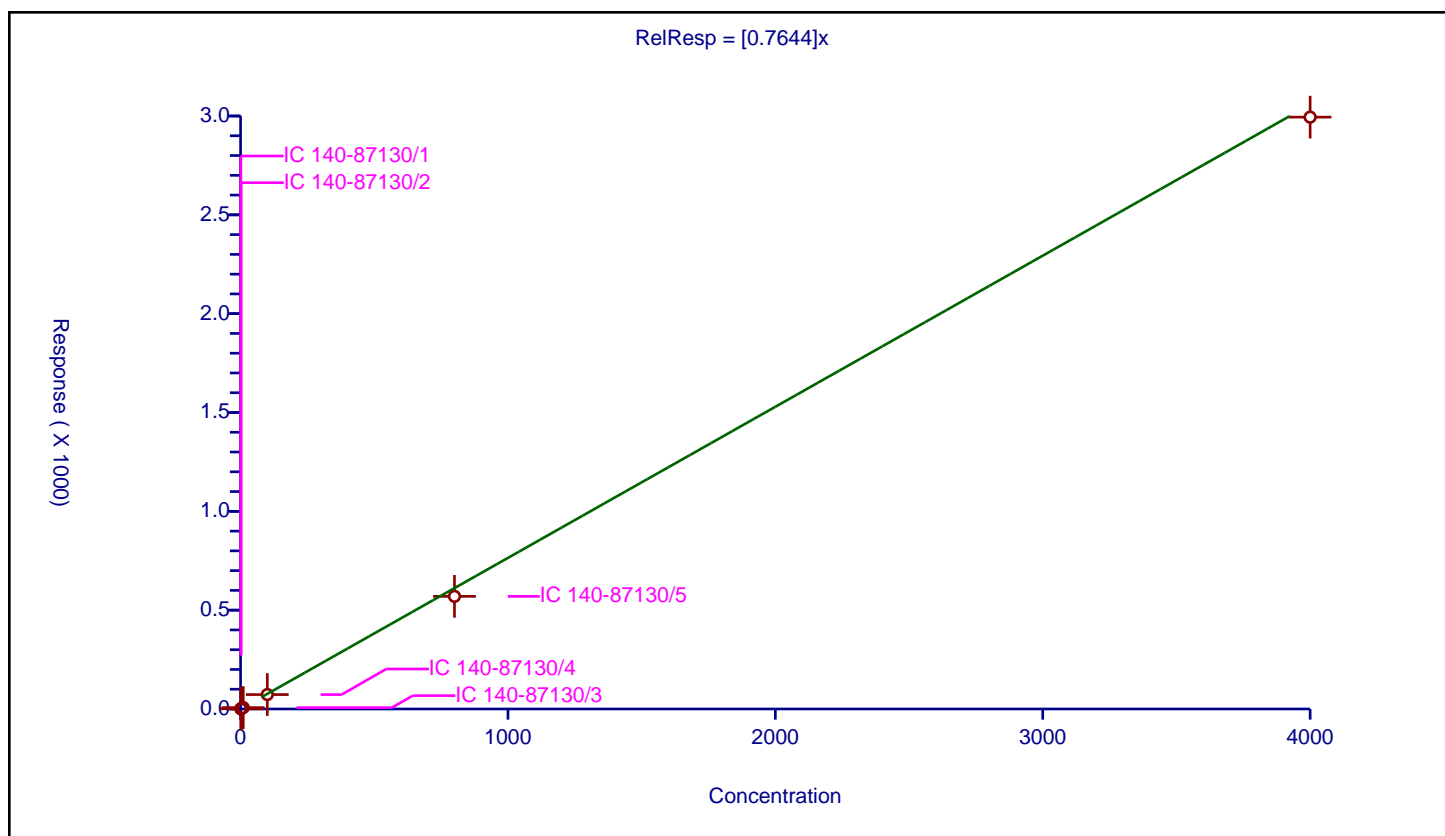
Curve Coefficients

Intercept: 0
 Slope: 0.7644

Error Coefficients

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.849611	100.0	7116082.0	0.849611	Y
2	IC 140-87130/2	2.0	1.696349	100.0	6585200.0	0.848175	Y
3	IC 140-87130/3	10.0	6.987251	100.0	6664037.0	0.698725	Y
4	IC 140-87130/4	100.0	72.935277	100.0	6587579.0	0.729353	Y
5	IC 140-87130/5	800.0	569.795232	100.0	7006215.0	0.712244	Y
6	IC 140-87130/6	4000.0	2994.305697	100.0	7440630.0	0.748576	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

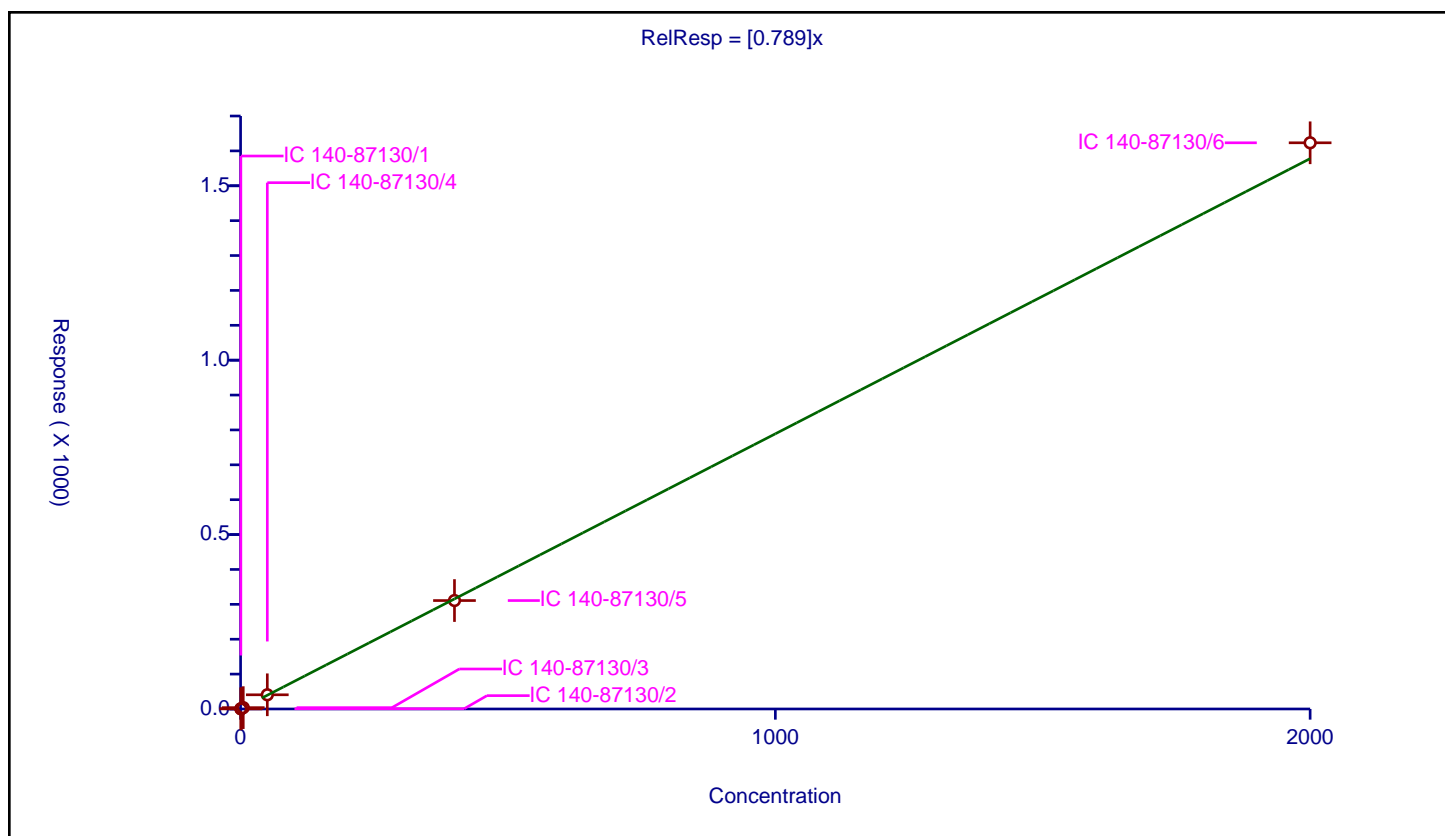
Curve Coefficients

Intercept: 0
Slope: 0.789

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.424531	100.0	7116082.0	0.849063	Y
2	IC 140-87130/2	1.0	0.704458	100.0	6585200.0	0.704458	Y
3	IC 140-87130/3	5.0	3.885423	100.0	6664037.0	0.777085	Y
4	IC 140-87130/4	50.0	40.710677	100.0	6587579.0	0.814214	Y
5	IC 140-87130/5	400.0	310.912083	100.0	7006215.0	0.77728	Y
6	IC 140-87130/6	2000.0	1623.223665	100.0	7440630.0	0.811612	Y



Calibration

/ PCB-175

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

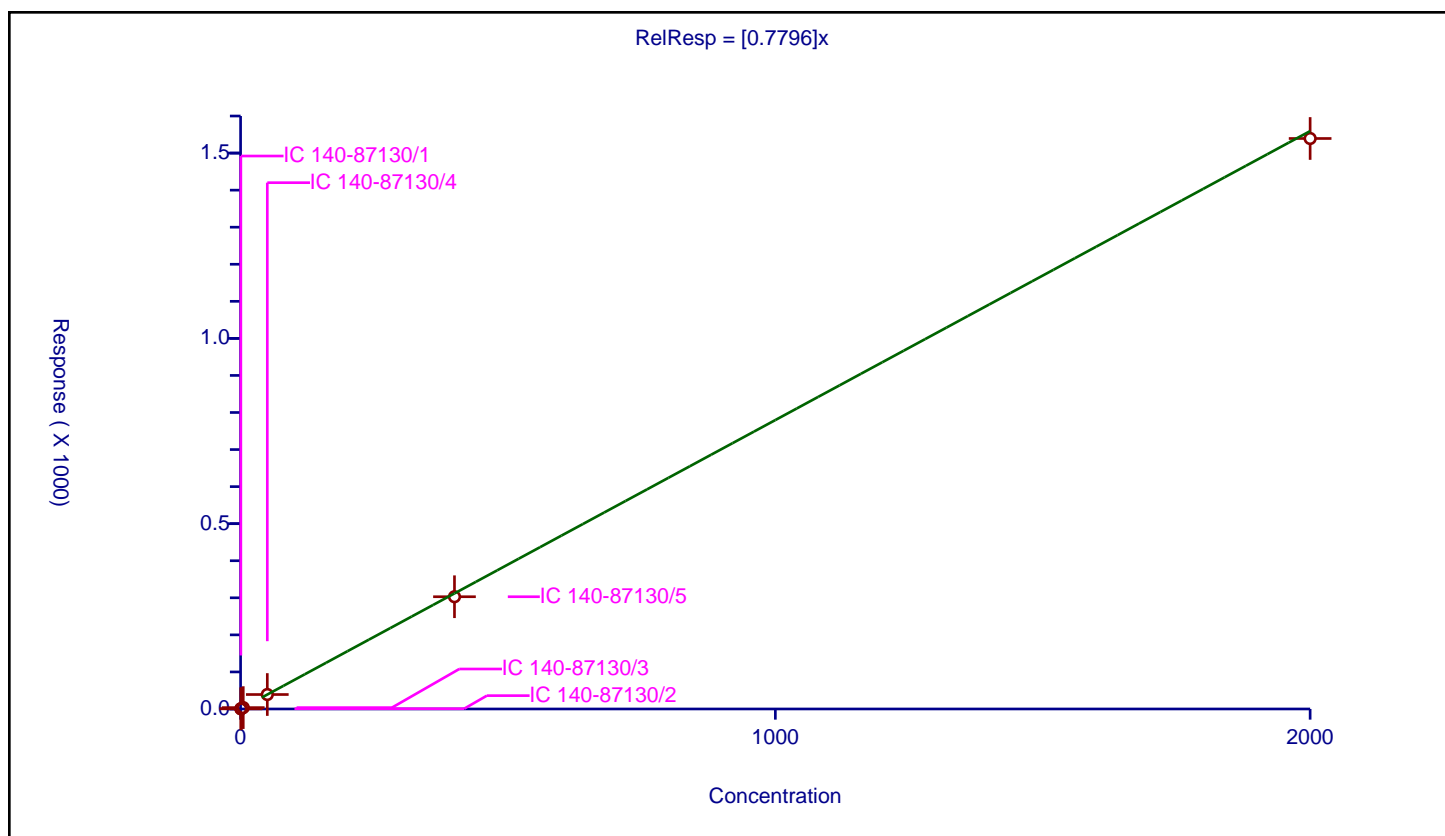
Curve Coefficients

Intercept: 0
Slope: 0.7796

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.43486	100.0	7116082.0	0.86972	Y
2	IC 140-87130/2	1.0	0.762209	100.0	6585200.0	0.762209	Y
3	IC 140-87130/3	5.0	3.694262	100.0	6664037.0	0.738852	Y
4	IC 140-87130/4	50.0	39.01116	100.0	6587579.0	0.780223	Y
5	IC 140-87130/5	400.0	302.879857	100.0	7006215.0	0.7572	Y
6	IC 140-87130/6	2000.0	1539.316523	100.0	7440630.0	0.769658	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

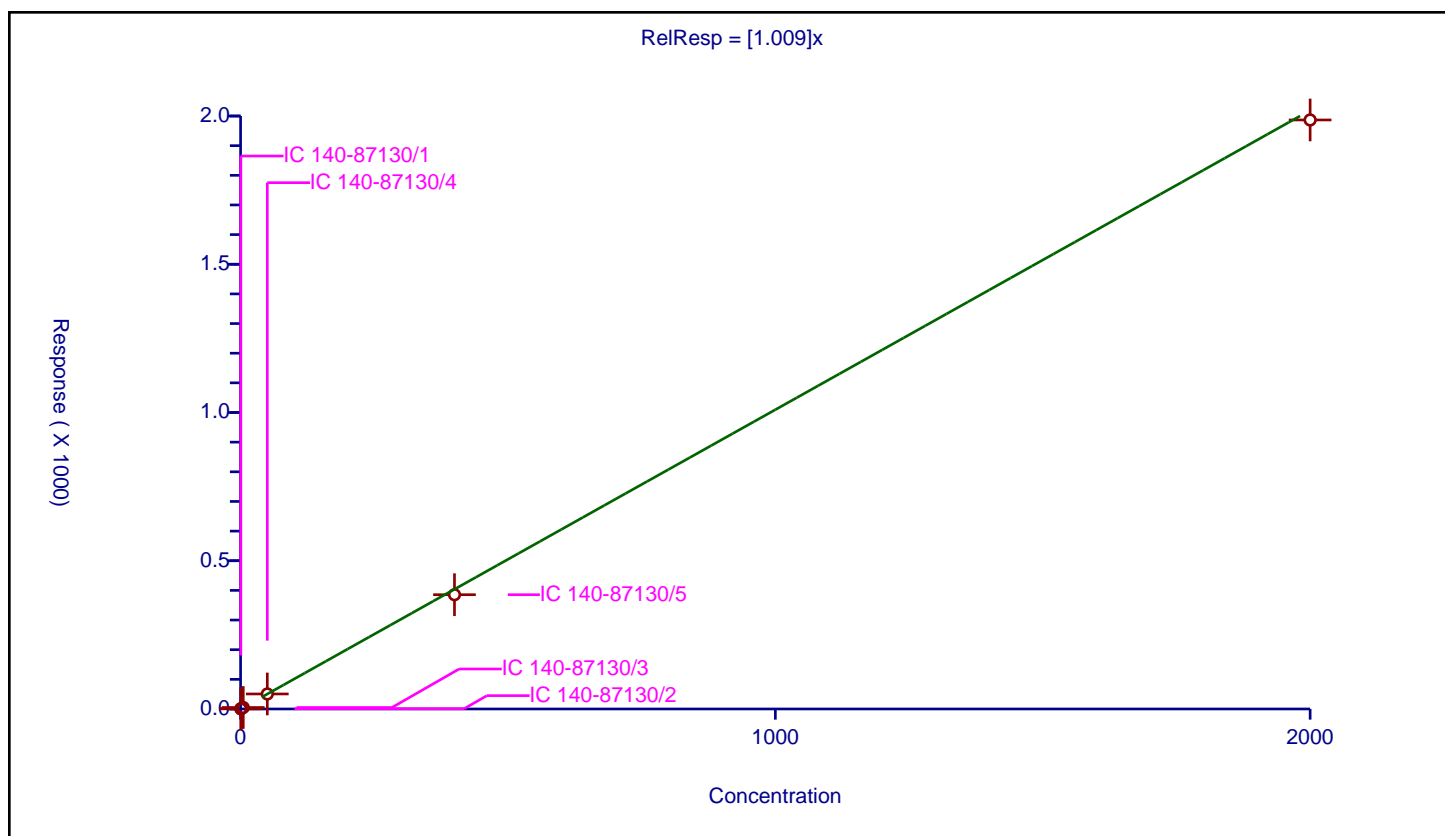
Curve Coefficients

Intercept: 0
Slope: 1.009

Error Coefficients

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.570314	100.0	7116082.0	1.140628	Y
2	IC 140-87130/2	1.0	0.950039	100.0	6585200.0	0.950039	Y
3	IC 140-87130/3	5.0	4.979729	100.0	6664037.0	0.995946	Y
4	IC 140-87130/4	50.0	50.662891	100.0	6587579.0	1.013258	Y
5	IC 140-87130/5	400.0	385.481076	100.0	7006215.0	0.963703	Y
6	IC 140-87130/6	2000.0	1986.671088	100.0	7440630.0	0.993336	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

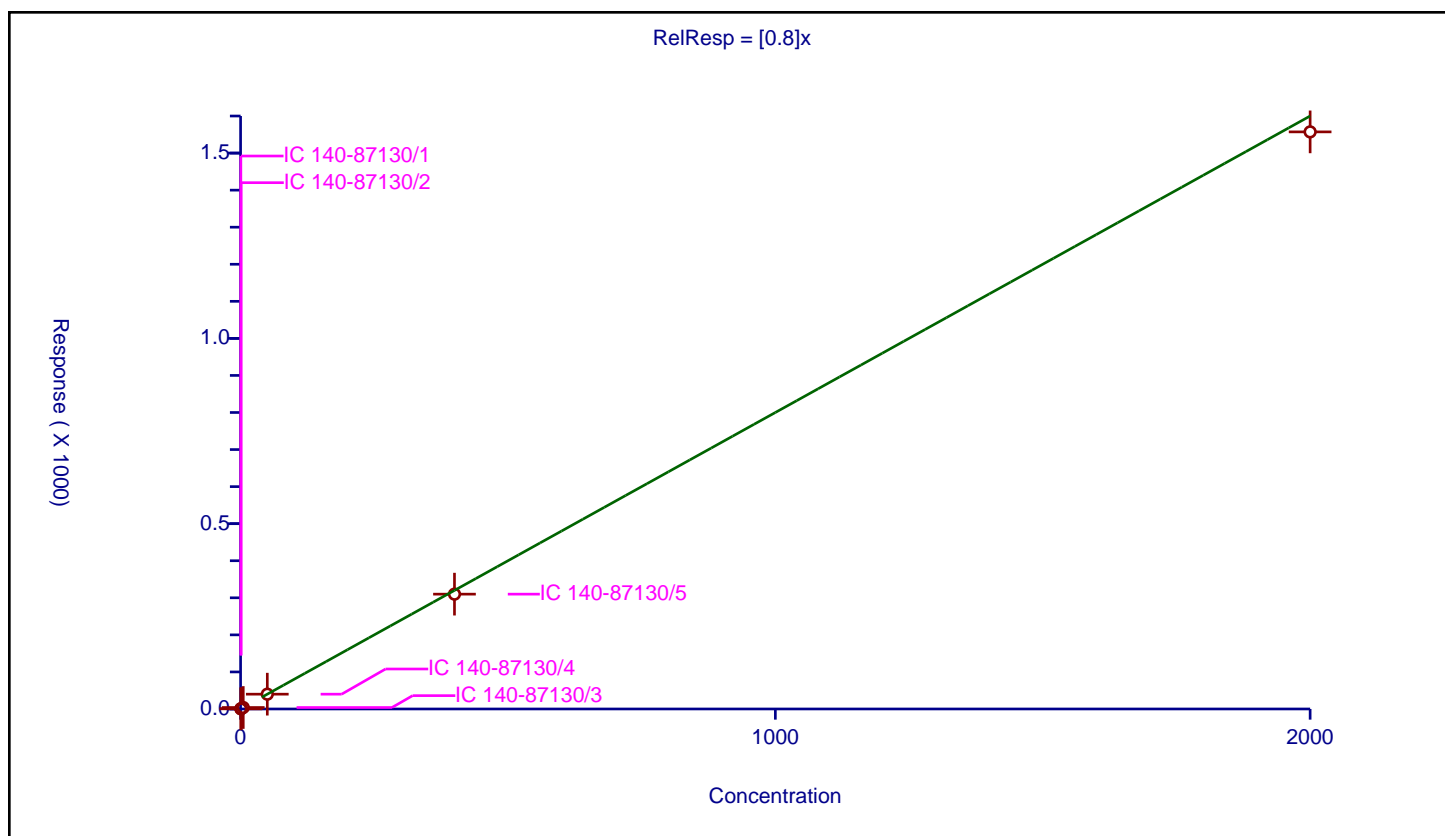
Curve Coefficients

Intercept: 0
Slope: 0.8

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.420231	100.0	7116082.0	0.840462	Y
2	IC 140-87130/2	1.0	0.811016	100.0	6585200.0	0.811016	Y
3	IC 140-87130/3	5.0	3.977904	100.0	6664037.0	0.795581	Y
4	IC 140-87130/4	50.0	39.977904	100.0	6587579.0	0.799558	Y
5	IC 140-87130/5	400.0	309.878501	100.0	7006215.0	0.774696	Y
6	IC 140-87130/6	2000.0	1557.201218	100.0	7440630.0	0.778601	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

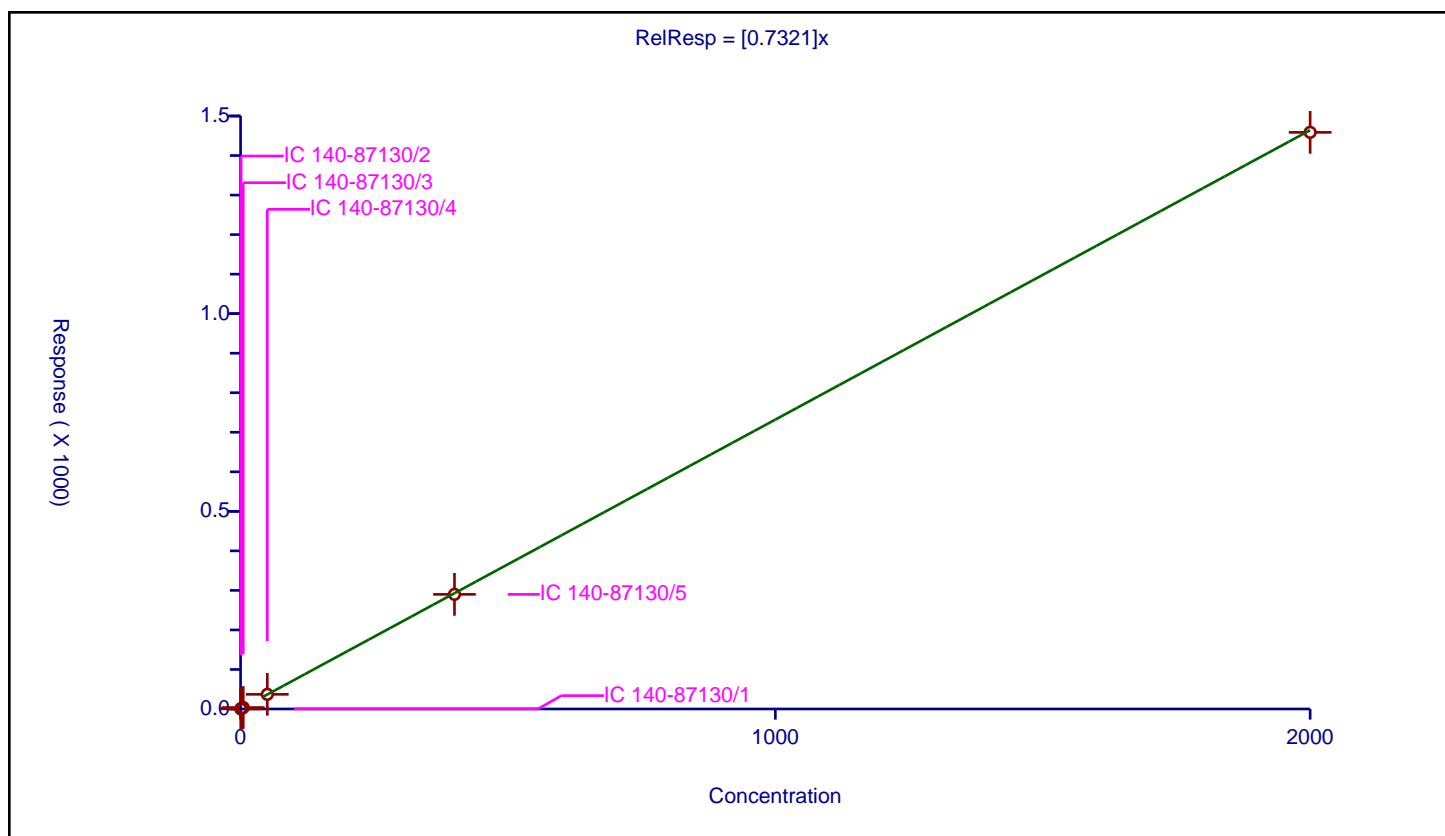
Curve Coefficients

Intercept: 0
Slope: 0.7321

Error Coefficients

Relative Standard Deviation: 1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.355308	100.0	7116082.0	0.710616	Y
2	IC 140-87130/2	1.0	0.746462	100.0	6585200.0	0.746462	Y
3	IC 140-87130/3	5.0	3.700895	100.0	6664037.0	0.740179	Y
4	IC 140-87130/4	50.0	37.046766	100.0	6587579.0	0.740935	Y
5	IC 140-87130/5	400.0	289.95459	100.0	7006215.0	0.724886	Y
6	IC 140-87130/6	2000.0	1458.627549	100.0	7440630.0	0.729314	Y



Calibration

/ PCB-178L

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

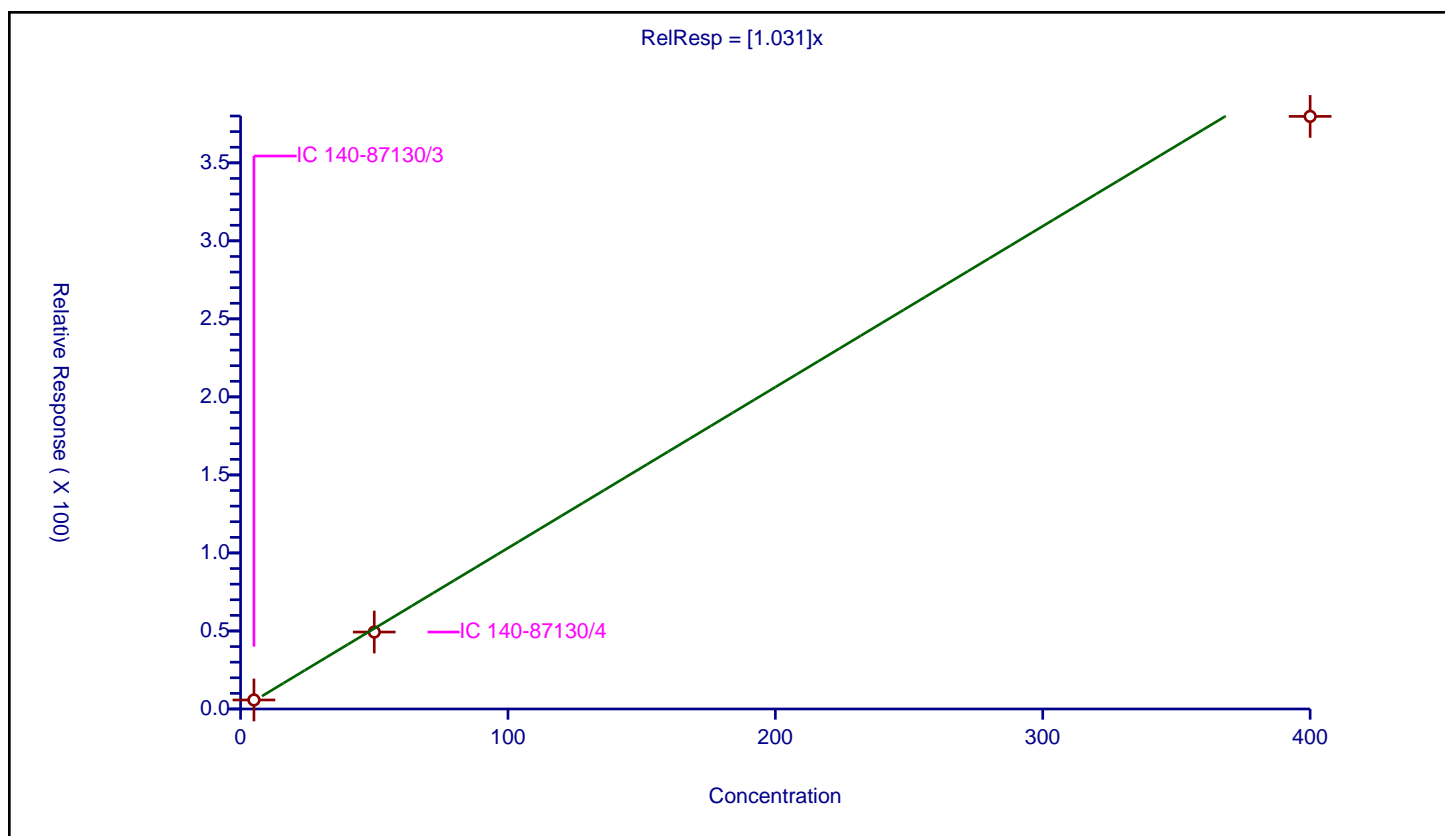
Curve Coefficients

Intercept: 0
 Slope: 1.031

Error Coefficients

Relative Standard Deviation: 10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	5.792413	100.0	5019998.0	1.158483	Y
2	IC 140-87130/4	50.0	49.304117	100.0	4977558.0	0.986082	Y
3	IC 140-87130/5	400.0	379.768667	100.0	5309833.0	0.949422	Y



Calibration

/ PCB-179

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

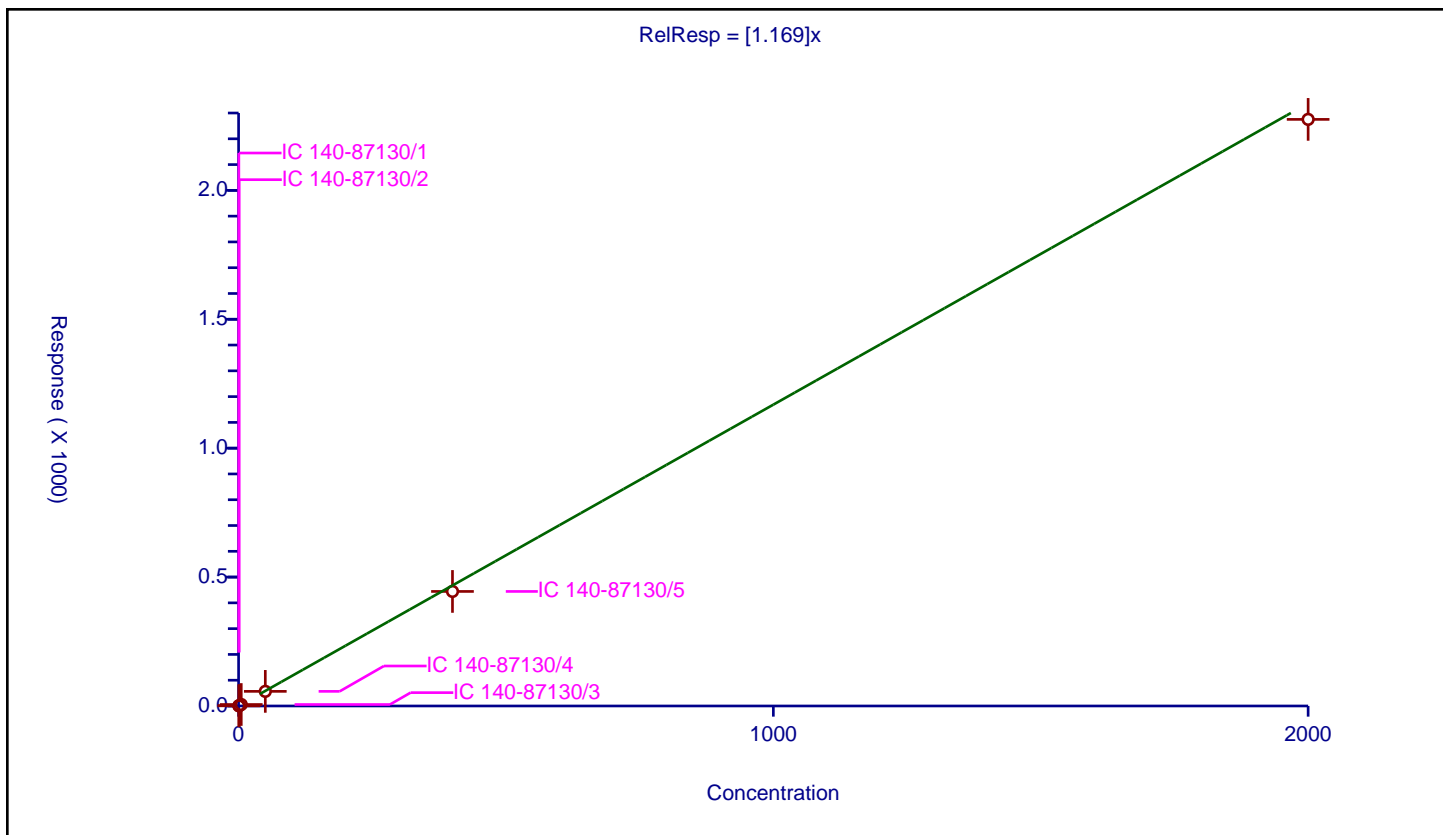
Curve Coefficients

Intercept: 0
 Slope: 1.169

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.657342	100.0	7116082.0	1.314684	Y
2	IC 140-87130/2	1.0	1.170838	100.0	6585200.0	1.170838	Y
3	IC 140-87130/3	5.0	5.728405	100.0	6664037.0	1.145681	Y
4	IC 140-87130/4	50.0	56.681582	100.0	6587579.0	1.133632	Y
5	IC 140-87130/5	400.0	444.329071	100.0	7006215.0	1.110823	Y
6	IC 140-87130/6	2000.0	2275.27458	100.0	7440630.0	1.137637	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

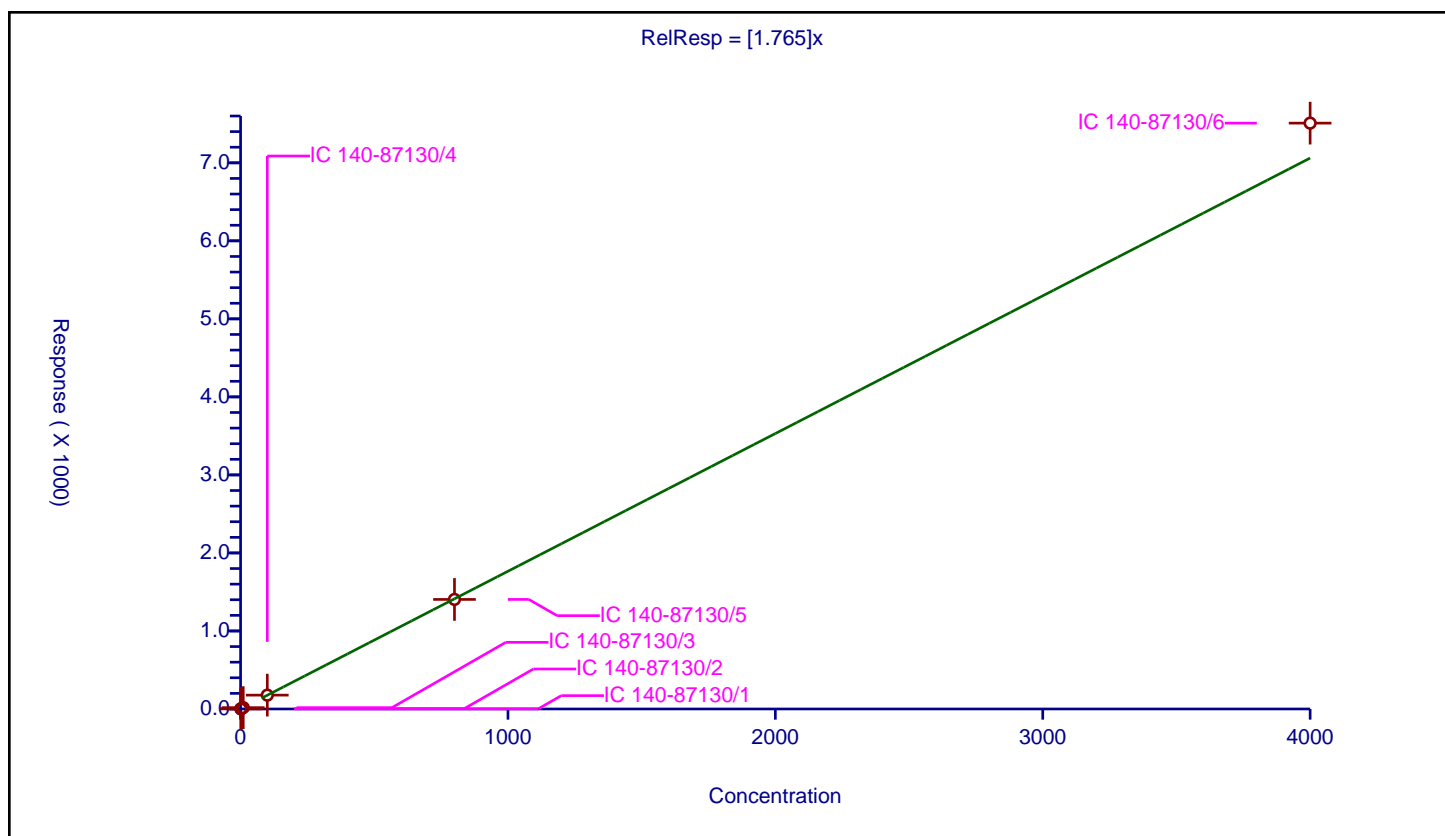
Curve Coefficients

Intercept: 0
Slope: 1.765

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.697941	100.0	3711790.0	1.697941	Y
2	IC 140-87130/2	2.0	3.493684	100.0	3424036.0	1.746842	Y
3	IC 140-87130/3	10.0	17.367846	100.0	3389482.0	1.736785	Y
4	IC 140-87130/4	100.0	177.714869	100.0	3406868.0	1.777149	Y
5	IC 140-87130/5	800.0	1404.321535	100.0	3537933.0	1.755402	Y
6	IC 140-87130/6	4000.0	7508.781366	100.0	3634856.0	1.877195	Y



Calibration

/ PCB-18/30

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

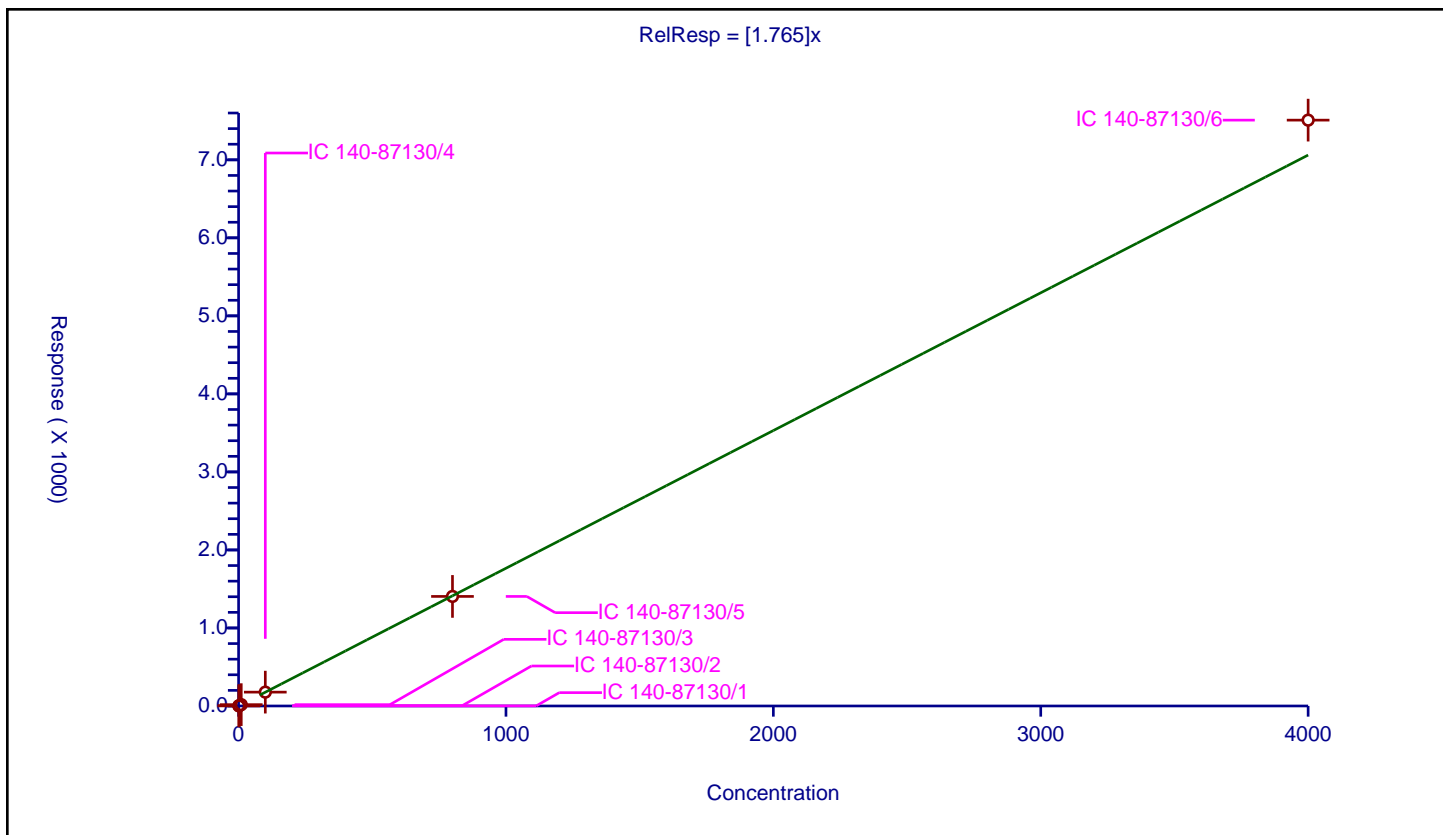
Curve Coefficients

Intercept: 0
 Slope: 1.765

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.697941	100.0	3711790.0	1.697941	Y
2	IC 140-87130/2	2.0	3.493684	100.0	3424036.0	1.746842	Y
3	IC 140-87130/3	10.0	17.367846	100.0	3389482.0	1.736785	Y
4	IC 140-87130/4	100.0	177.714869	100.0	3406868.0	1.777149	Y
5	IC 140-87130/5	800.0	1404.321535	100.0	3537933.0	1.755402	Y
6	IC 140-87130/6	4000.0	7508.781366	100.0	3634856.0	1.877195	Y



Calibration

/ PCB-180

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

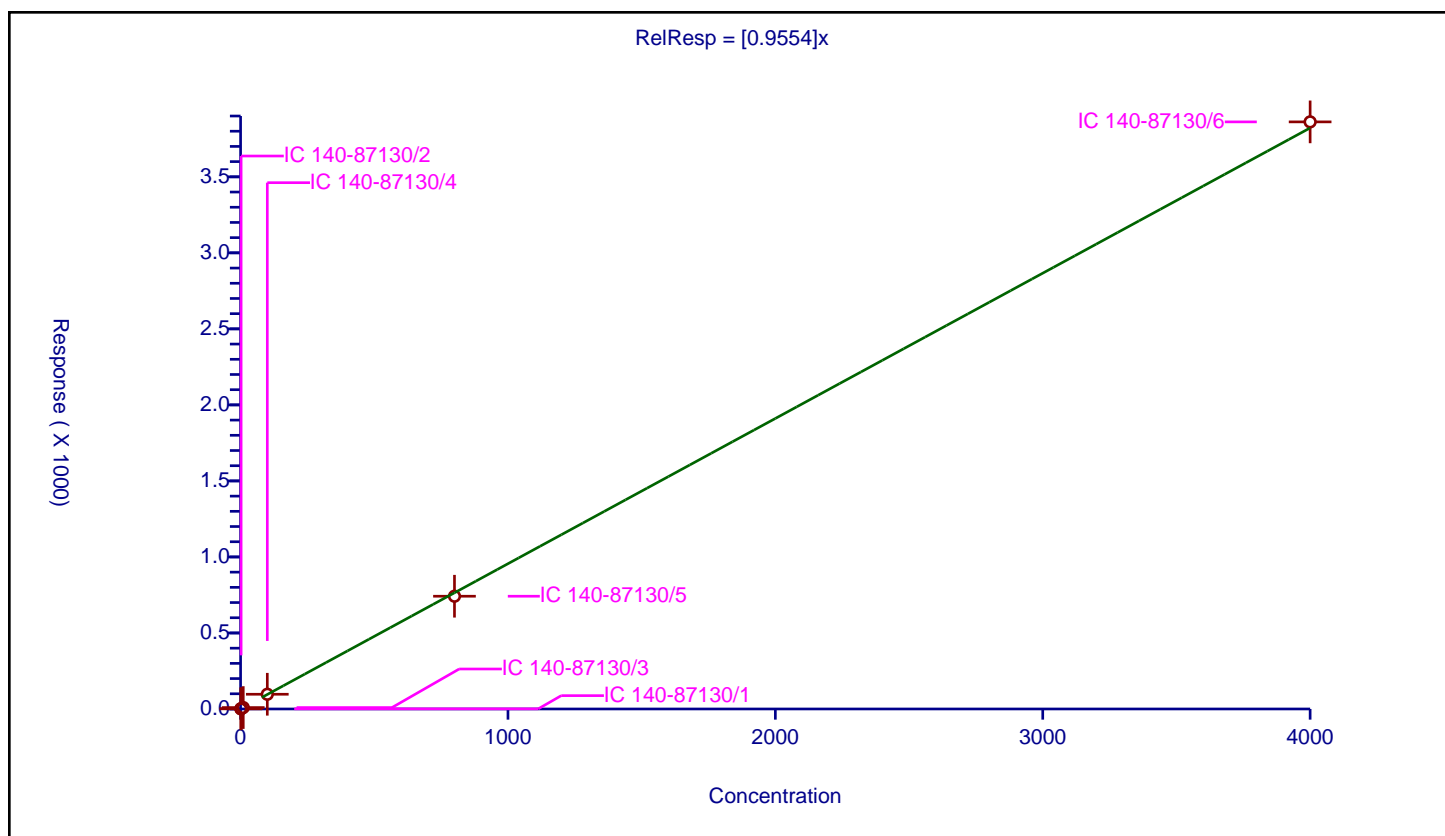
Curve Coefficients

Intercept: 0
 Slope: 0.9554

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.940616	100.0	7116082.0	0.940616	Y
2	IC 140-87130/2	2.0	1.980942	100.0	6585200.0	0.990471	Y
3	IC 140-87130/3	10.0	9.403114	100.0	6664037.0	0.940311	Y
4	IC 140-87130/4	100.0	96.857131	100.0	6587579.0	0.968571	Y
5	IC 140-87130/5	800.0	741.672886	100.0	7006215.0	0.927091	Y
6	IC 140-87130/6	4000.0	3861.399881	100.0	7440630.0	0.96535	Y



Calibration

/ PCB-180/193

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

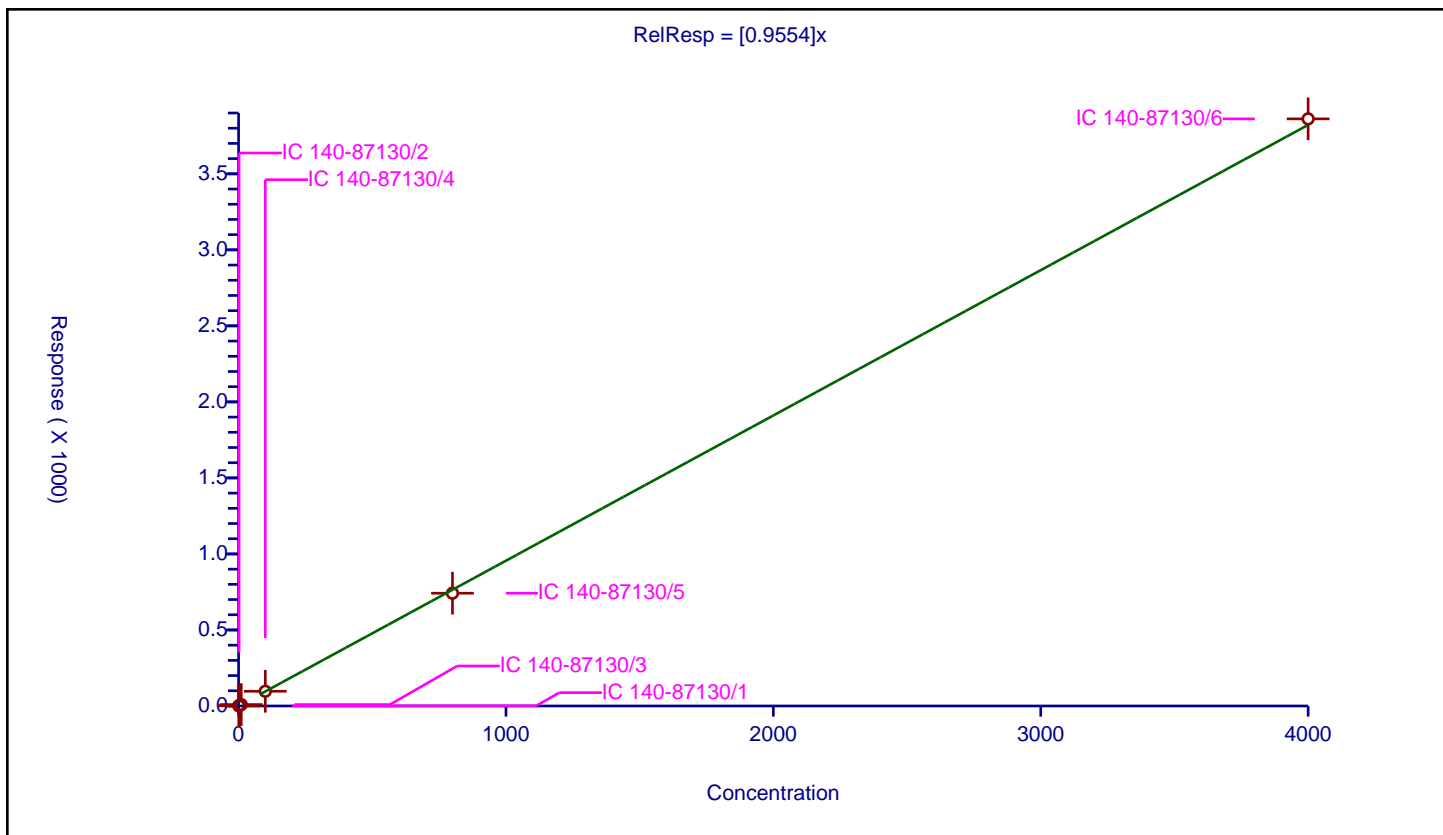
Curve Coefficients

Intercept: 0
 Slope: 0.9554

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.940616	100.0	7116082.0	0.940616	Y
2	IC 140-87130/2	2.0	1.980942	100.0	6585200.0	0.990471	Y
3	IC 140-87130/3	10.0	9.403114	100.0	6664037.0	0.940311	Y
4	IC 140-87130/4	100.0	96.857131	100.0	6587579.0	0.968571	Y
5	IC 140-87130/5	800.0	741.672886	100.0	7006215.0	0.927091	Y
6	IC 140-87130/6	4000.0	3861.399881	100.0	7440630.0	0.96535	Y



Calibration

/ PCB-181

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

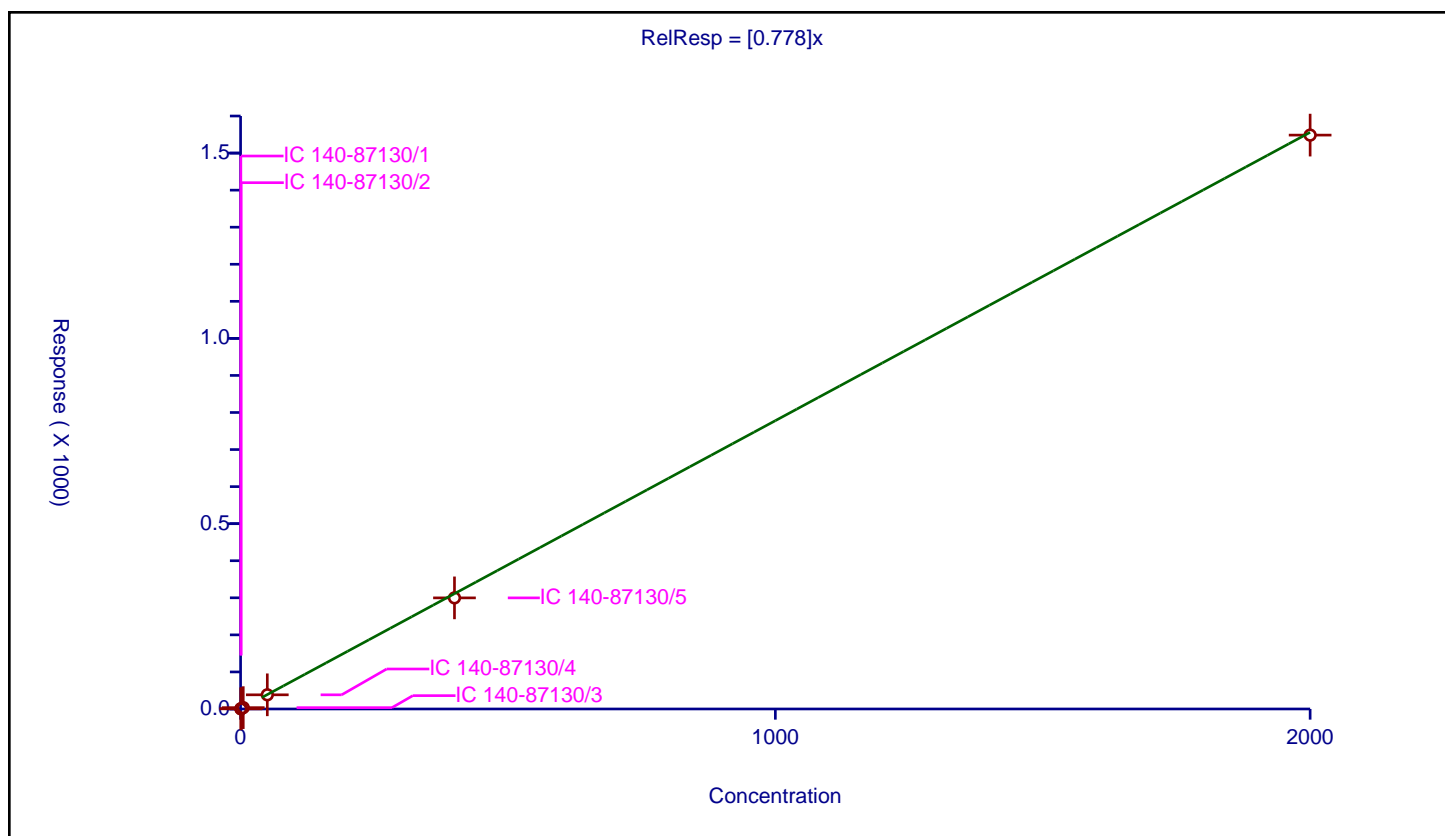
Curve Coefficients

Intercept: 0
Slope: 0.778

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.402427	100.0	7116082.0	0.804853	Y
2	IC 140-87130/2	1.0	0.844409	100.0	6585200.0	0.844409	Y
3	IC 140-87130/3	5.0	3.647774	100.0	6664037.0	0.729555	Y
4	IC 140-87130/4	50.0	38.269385	100.0	6587579.0	0.765388	Y
5	IC 140-87130/5	400.0	299.805216	100.0	7006215.0	0.749513	Y
6	IC 140-87130/6	2000.0	1548.502815	100.0	7440630.0	0.774251	Y



Calibration

/ PCB-182

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

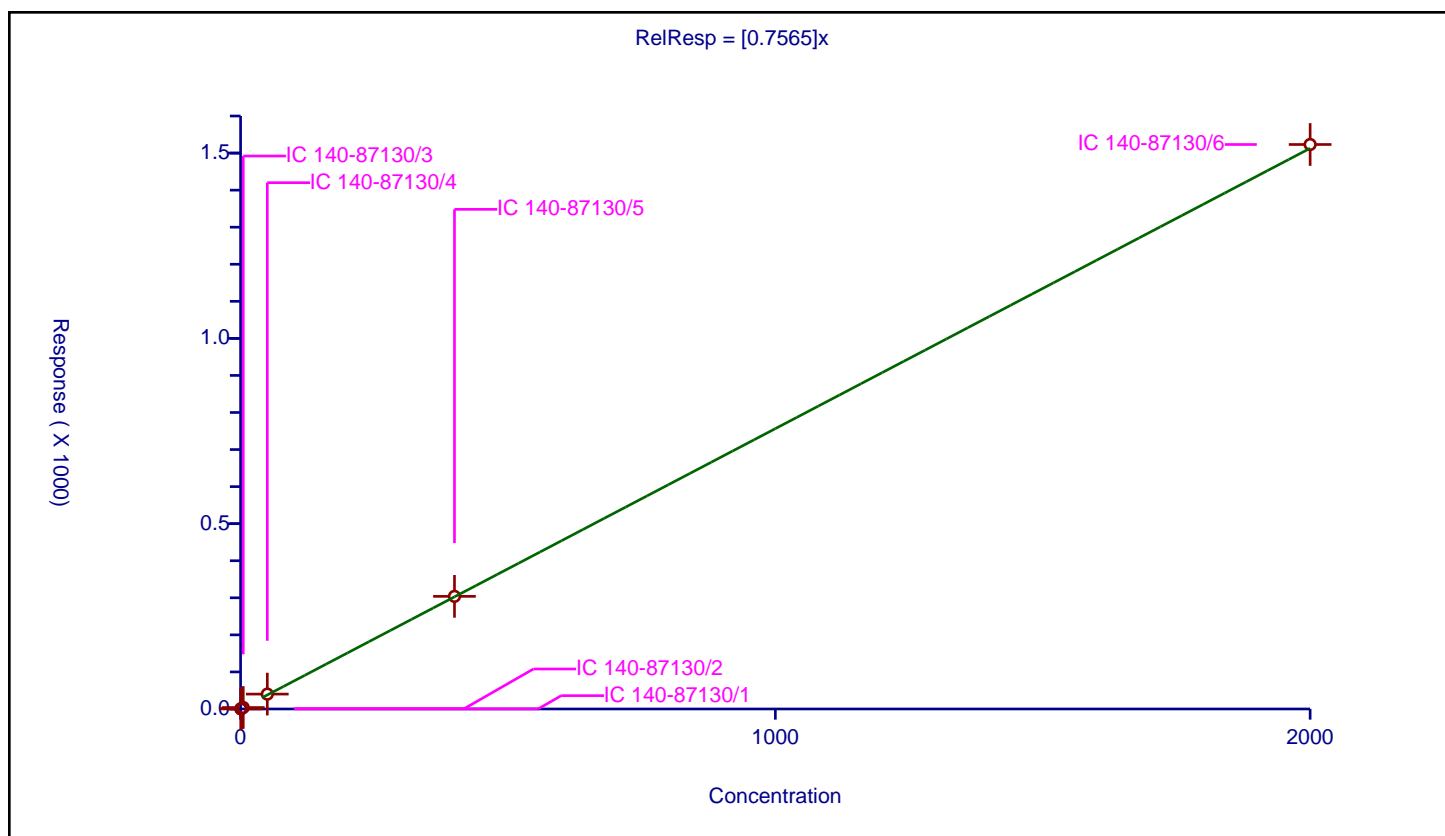
Curve Coefficients

Intercept: 0
Slope: 0.7565

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.346314	100.0	7116082.0	0.692628	Y
2	IC 140-87130/2	1.0	0.731823	100.0	6585200.0	0.731823	Y
3	IC 140-87130/3	5.0	3.946692	100.0	6664037.0	0.789338	Y
4	IC 140-87130/4	50.0	40.182228	100.0	6587579.0	0.803645	Y
5	IC 140-87130/5	400.0	303.913739	100.0	7006215.0	0.759784	Y
6	IC 140-87130/6	2000.0	1523.171748	100.0	7440630.0	0.761586	Y



Calibration

/ PCB-183

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

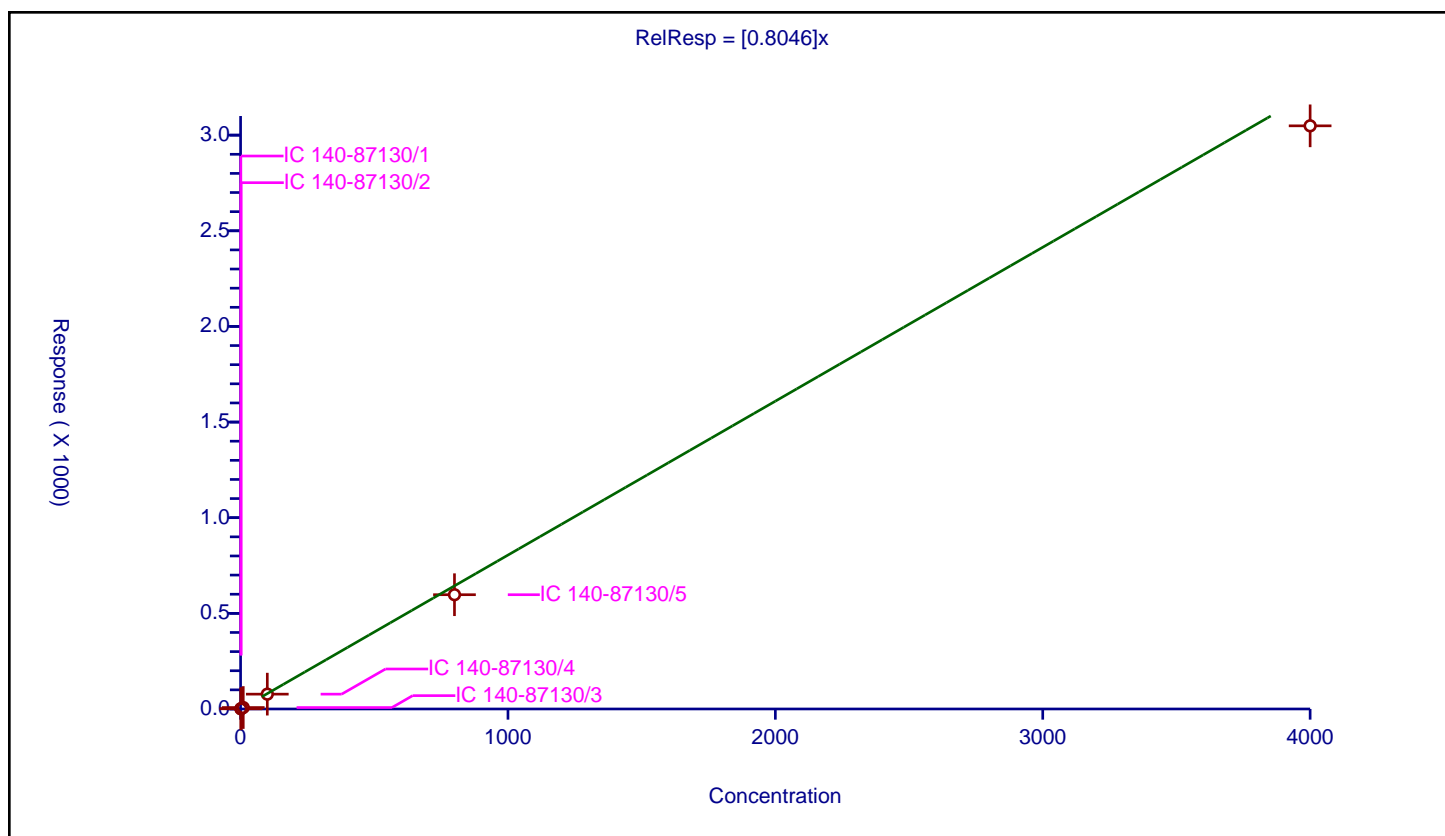
Curve Coefficients

Intercept: 0
Slope: 0.8046

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.903503	100.0	7116082.0	0.903503	Y
2	IC 140-87130/2	2.0	1.760584	100.0	6585200.0	0.880292	Y
3	IC 140-87130/3	10.0	7.585957	100.0	6664037.0	0.758596	Y
4	IC 140-87130/4	100.0	77.639039	100.0	6587579.0	0.77639	Y
5	IC 140-87130/5	800.0	597.381539	100.0	7006215.0	0.746727	Y
6	IC 140-87130/6	4000.0	3048.699707	100.0	7440630.0	0.762175	Y



Calibration

/ PCB-183/185

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

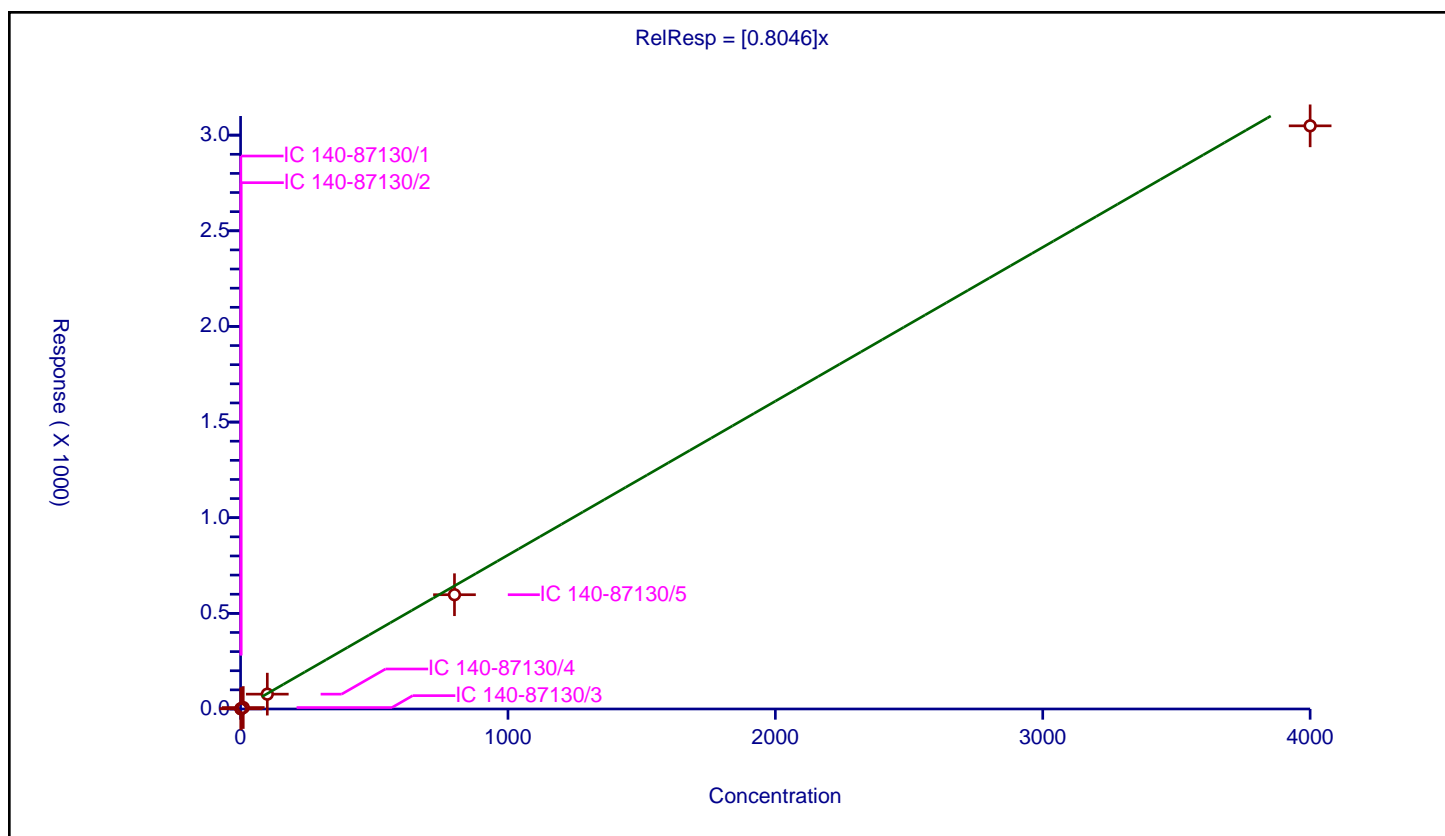
Curve Coefficients

Intercept: 0
Slope: 0.8046

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.903503	100.0	7116082.0	0.903503	Y
2	IC 140-87130/2	2.0	1.760584	100.0	6585200.0	0.880292	Y
3	IC 140-87130/3	10.0	7.585957	100.0	6664037.0	0.758596	Y
4	IC 140-87130/4	100.0	77.639039	100.0	6587579.0	0.77639	Y
5	IC 140-87130/5	800.0	597.381539	100.0	7006215.0	0.746727	Y
6	IC 140-87130/6	4000.0	3048.699707	100.0	7440630.0	0.762175	Y



Calibration

/ PCB-184

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

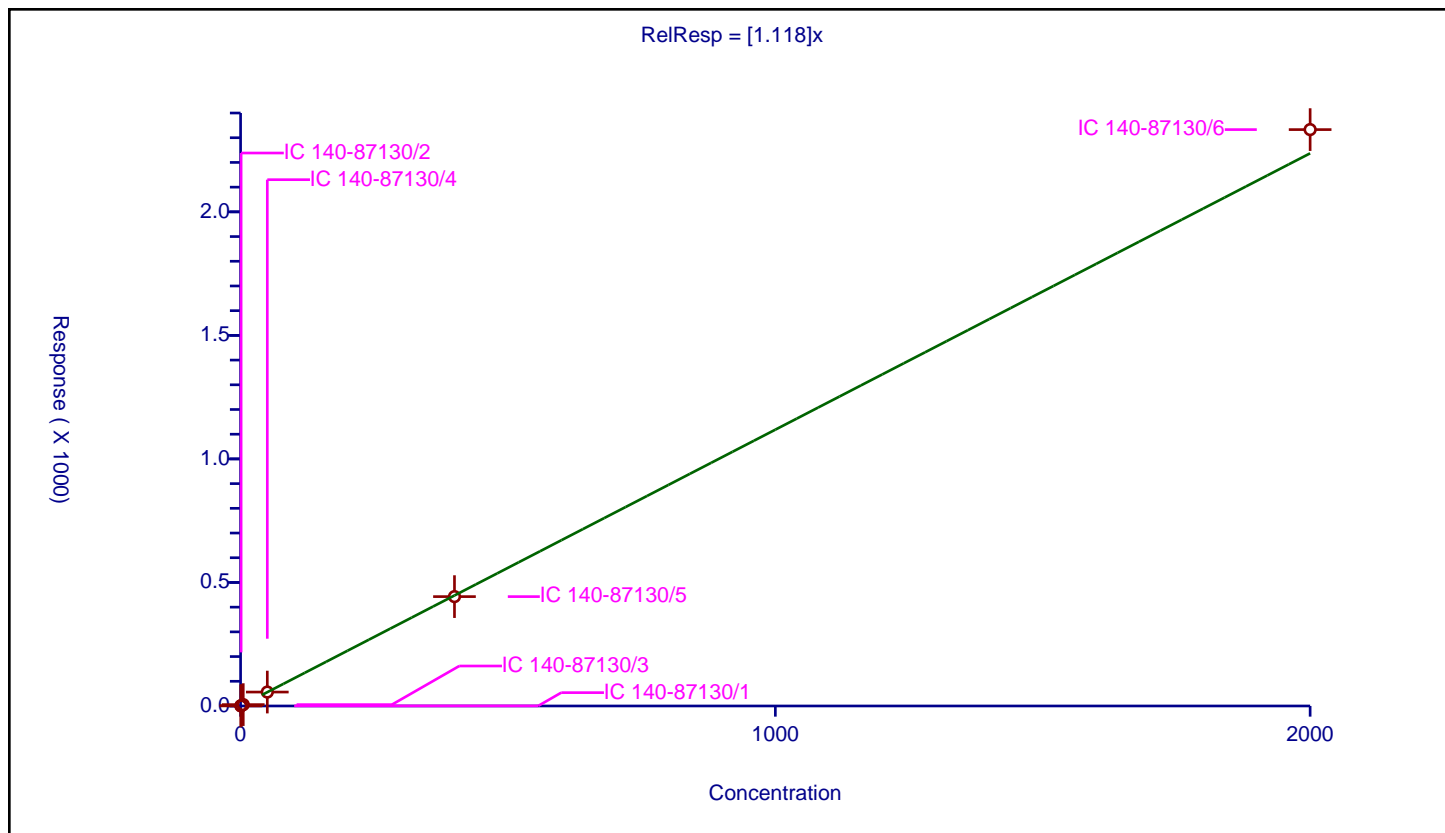
Curve Coefficients

Intercept: 0
 Slope: 1.118

Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.535885	100.0	7116082.0	1.07177	Y
2	IC 140-87130/2	1.0	1.125995	100.0	6585200.0	1.125995	Y
3	IC 140-87130/3	5.0	5.558913	100.0	6664037.0	1.111783	Y
4	IC 140-87130/4	50.0	56.38639	100.0	6587579.0	1.127728	Y
5	IC 140-87130/5	400.0	442.725409	100.0	7006215.0	1.106814	Y
6	IC 140-87130/6	2000.0	2332.867311	100.0	7440630.0	1.166434	Y



Calibration

/ PCB-185

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

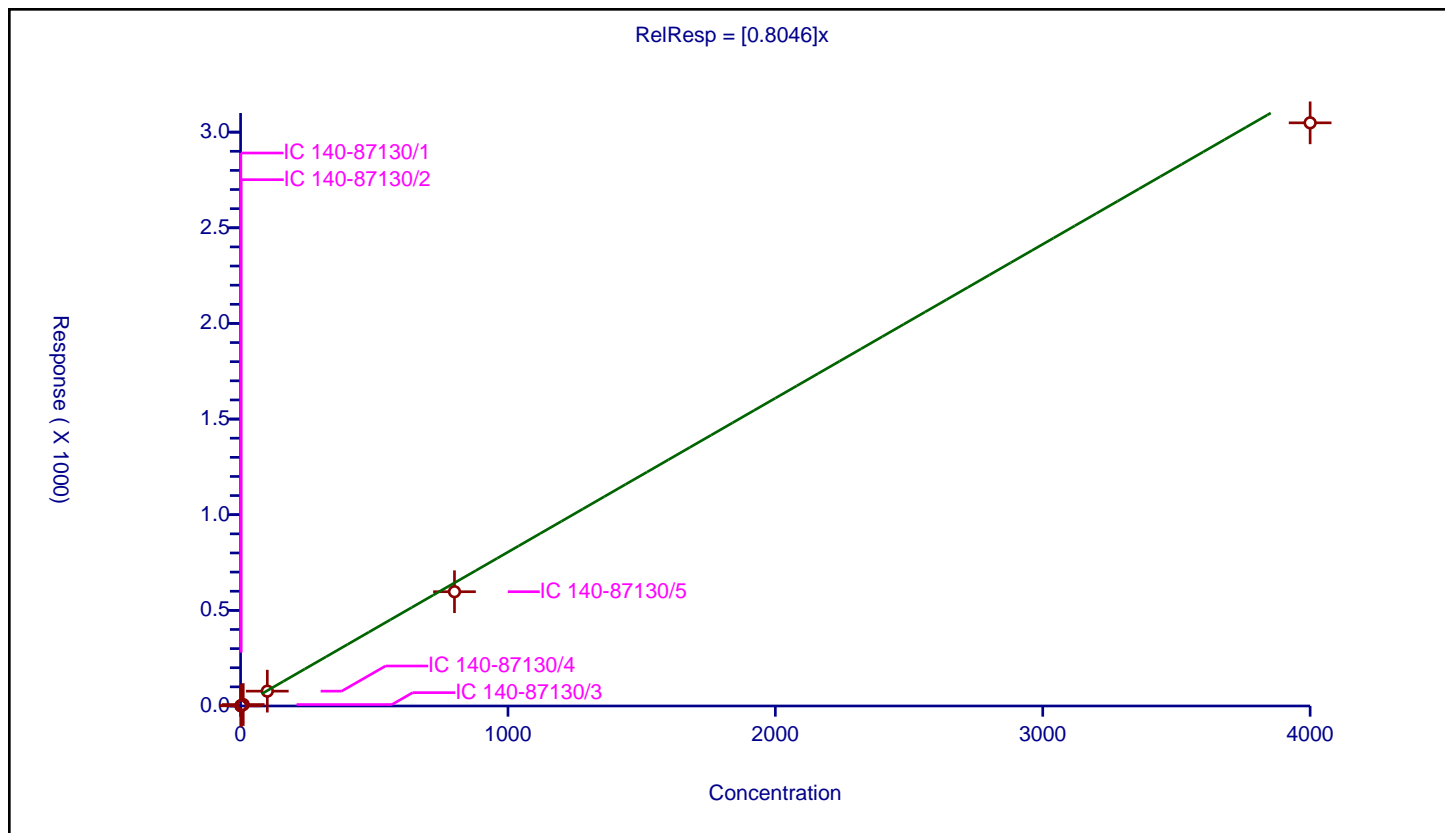
Curve Coefficients

Intercept: 0
Slope: 0.8046

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.903503	100.0	7116082.0	0.903503	Y
2	IC 140-87130/2	2.0	1.760584	100.0	6585200.0	0.880292	Y
3	IC 140-87130/3	10.0	7.585957	100.0	6664037.0	0.758596	Y
4	IC 140-87130/4	100.0	77.639039	100.0	6587579.0	0.77639	Y
5	IC 140-87130/5	800.0	597.381539	100.0	7006215.0	0.746727	Y
6	IC 140-87130/6	4000.0	3048.699707	100.0	7440630.0	0.762175	Y



Calibration

/ PCB-186

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

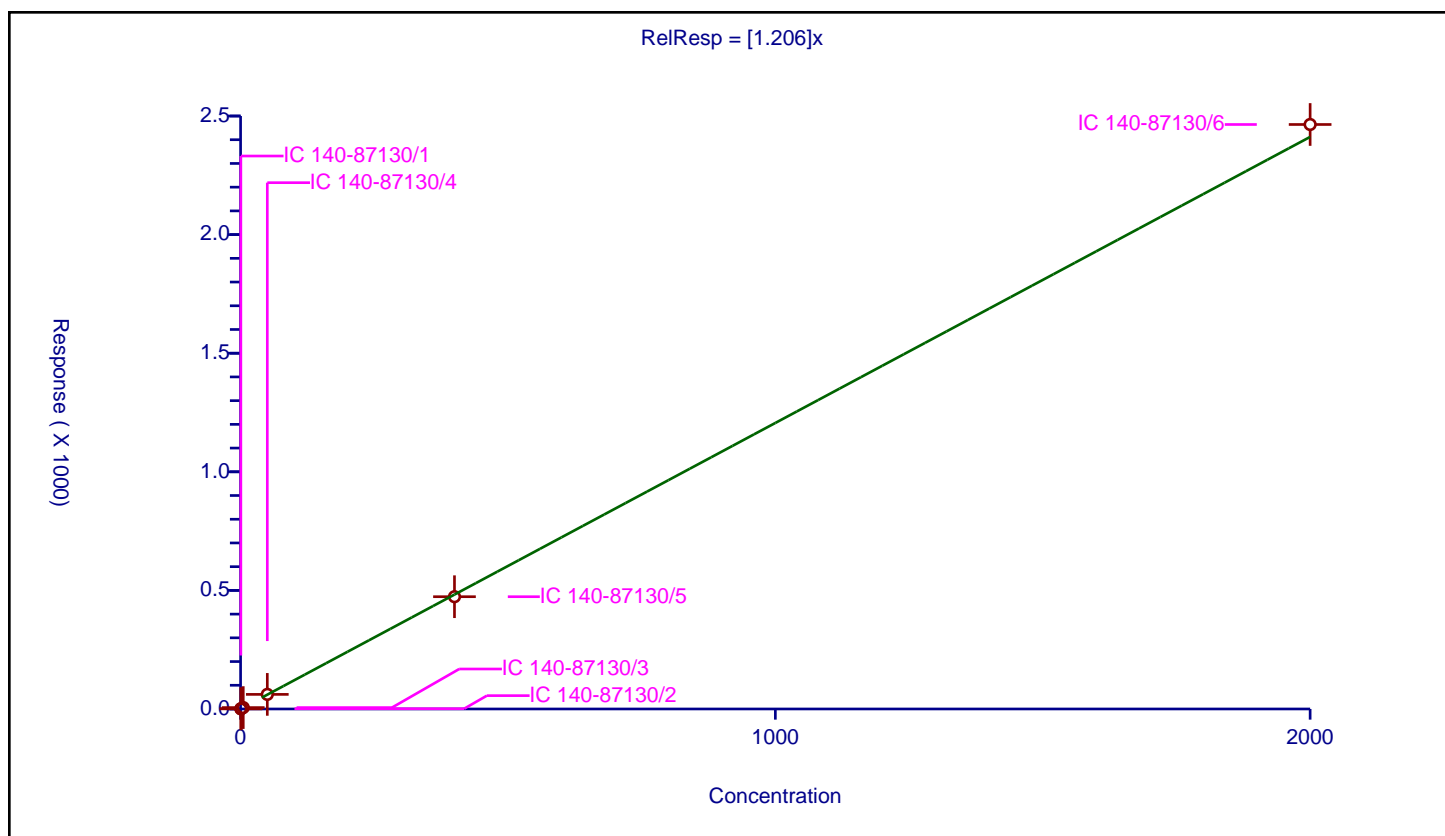
Curve Coefficients

Intercept: 0
 Slope: 1.206

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.628604	100.0	7116082.0	1.257209	Y
2	IC 140-87130/2	1.0	1.149077	100.0	6585200.0	1.149077	Y
3	IC 140-87130/3	5.0	5.918064	100.0	6664037.0	1.183613	Y
4	IC 140-87130/4	50.0	61.502352	100.0	6587579.0	1.230047	Y
5	IC 140-87130/5	400.0	473.346622	100.0	7006215.0	1.183367	Y
6	IC 140-87130/6	2000.0	2464.281049	100.0	7440630.0	1.232141	Y



Calibration

/ PCB-187

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

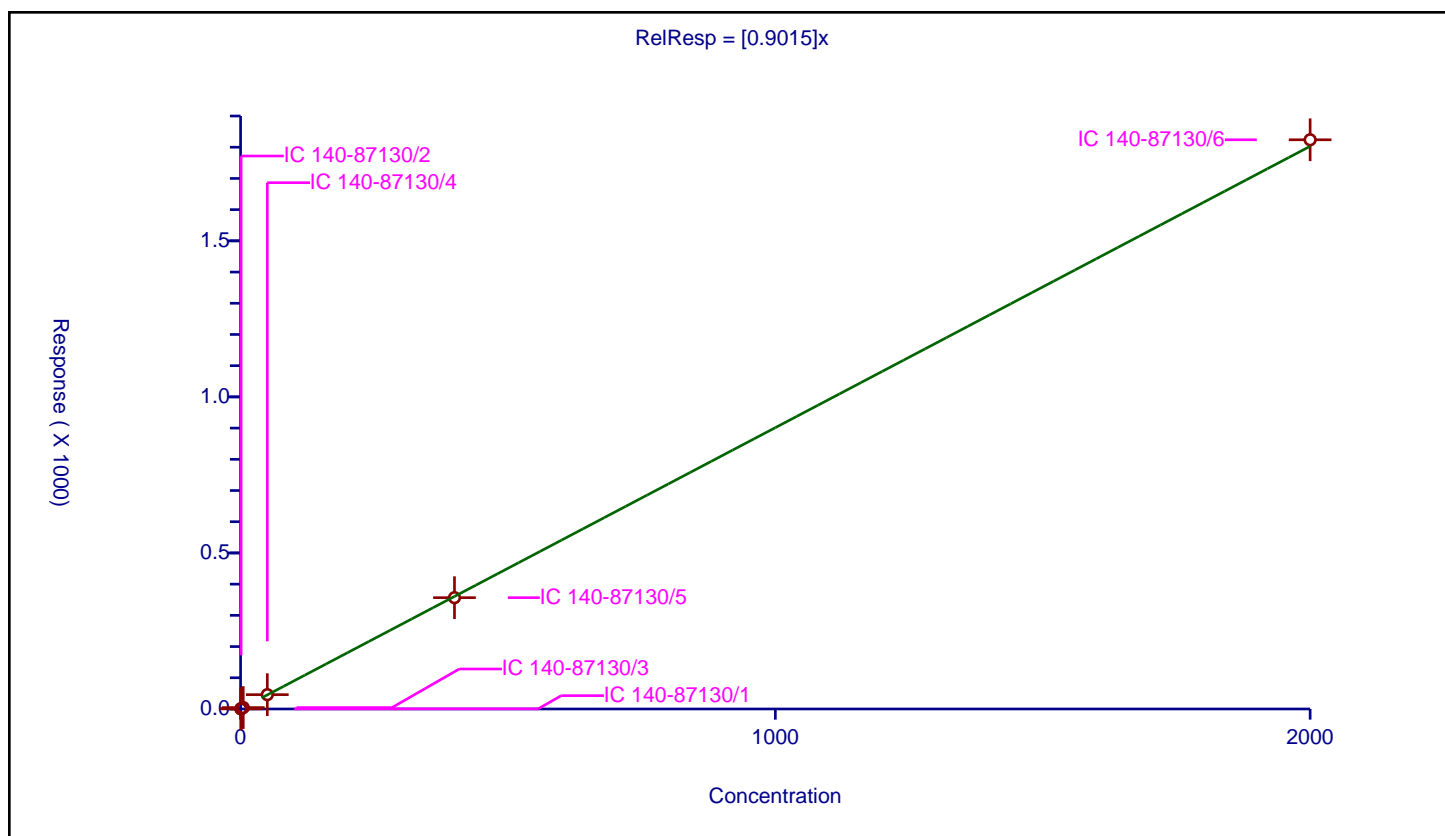
Curve Coefficients

Intercept: 0
Slope: 0.9015

Error Coefficients

Relative Standard Deviation: 2.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.436364	100.0	7116082.0	0.872727	Y
2	IC 140-87130/2	1.0	0.925348	100.0	6585200.0	0.925348	Y
3	IC 140-87130/3	5.0	4.447409	100.0	6664037.0	0.889482	Y
4	IC 140-87130/4	50.0	45.892945	100.0	6587579.0	0.917859	Y
5	IC 140-87130/5	400.0	356.673596	100.0	7006215.0	0.891684	Y
6	IC 140-87130/6	2000.0	1823.906779	100.0	7440630.0	0.911953	Y



Calibration

/ PCB-188

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

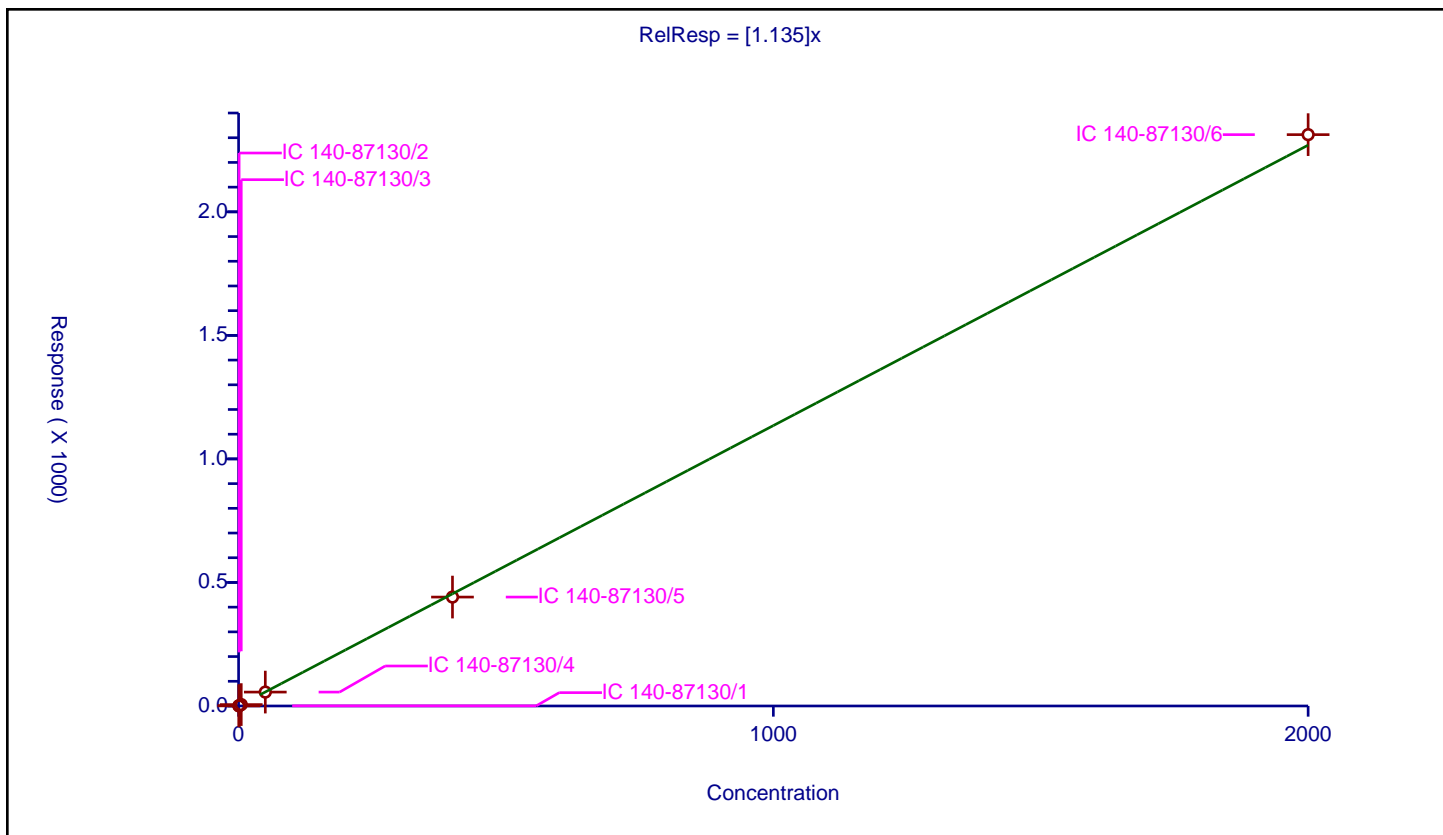
Curve Coefficients

Intercept: 0
Slope: 1.135

Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.557793	100.0	7116082.0	1.115586	Y
2	IC 140-87130/2	1.0	1.170443	100.0	6585200.0	1.170443	Y
3	IC 140-87130/3	5.0	5.700374	100.0	6664037.0	1.140075	Y
4	IC 140-87130/4	50.0	56.267105	100.0	6587579.0	1.125342	Y
5	IC 140-87130/5	400.0	440.837985	100.0	7006215.0	1.102095	Y
6	IC 140-87130/6	2000.0	2312.414809	100.0	7440630.0	1.156207	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

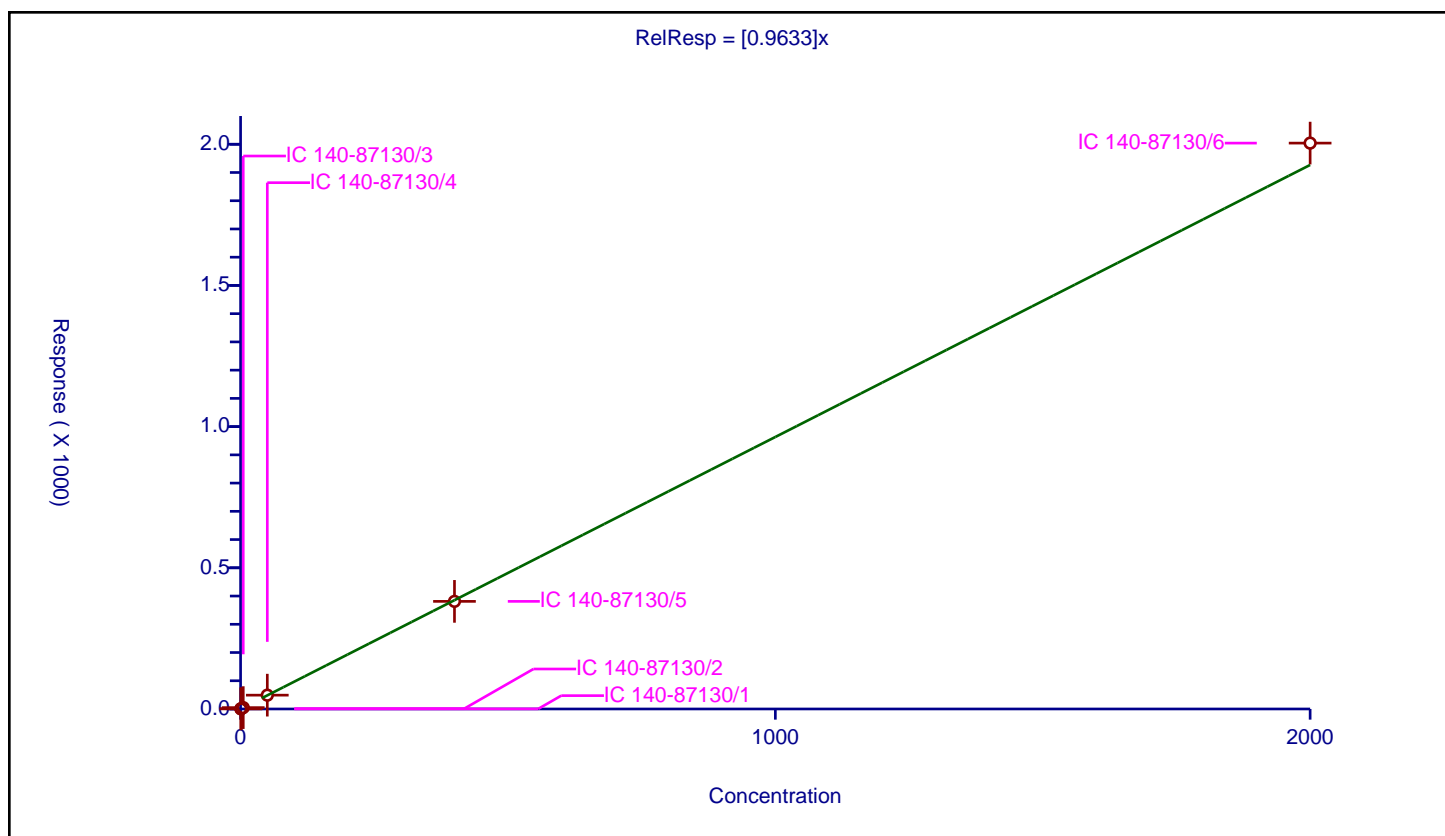
Curve Coefficients

Intercept: 0
Slope: 0.9633

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.468643	100.0	11329298.0	0.937287	Y
2	IC 140-87130/2	1.0	0.945522	100.0	10353644.0	0.945522	Y
3	IC 140-87130/3	5.0	4.818192	100.0	10235768.0	0.963638	Y
4	IC 140-87130/4	50.0	48.940921	100.0	10070777.0	0.978818	Y
5	IC 140-87130/5	400.0	381.078351	100.0	10502203.0	0.952696	Y
6	IC 140-87130/6	2000.0	2004.065707	100.0	11047526.0	1.002033	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

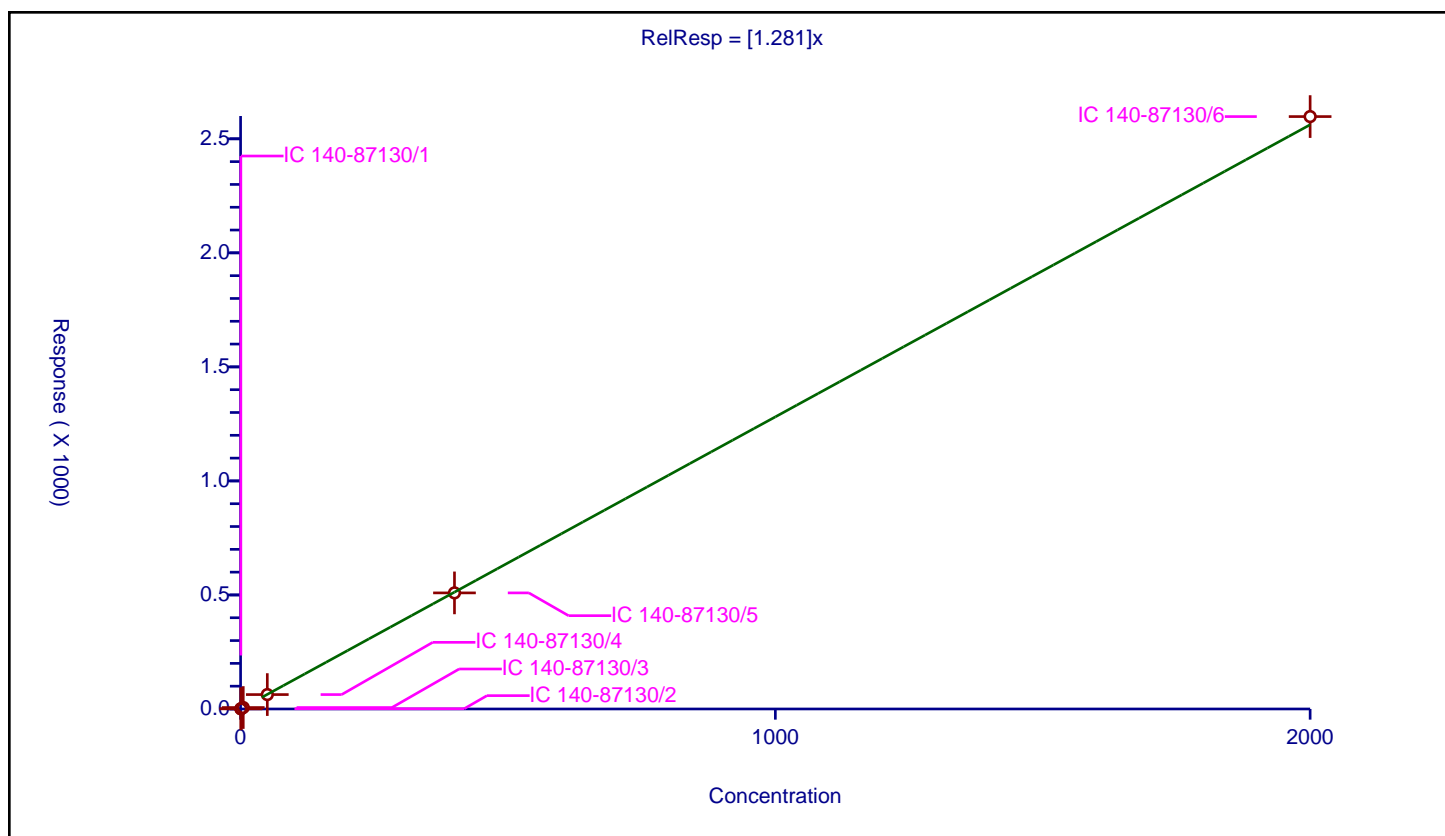
Curve Coefficients

Intercept: 0
Slope: 1.281

Error Coefficients

Relative Standard Deviation: 9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.734093	100.0	3711790.0	1.468187	Y
2	IC 140-87130/2	1.0	1.107786	100.0	3424036.0	1.107786	Y
3	IC 140-87130/3	5.0	6.371947	100.0	3389482.0	1.274389	Y
4	IC 140-87130/4	50.0	63.176031	100.0	3406868.0	1.263521	Y
5	IC 140-87130/5	400.0	509.085164	100.0	3537933.0	1.272713	Y
6	IC 140-87130/6	2000.0	2597.600235	100.0	3634856.0	1.2988	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

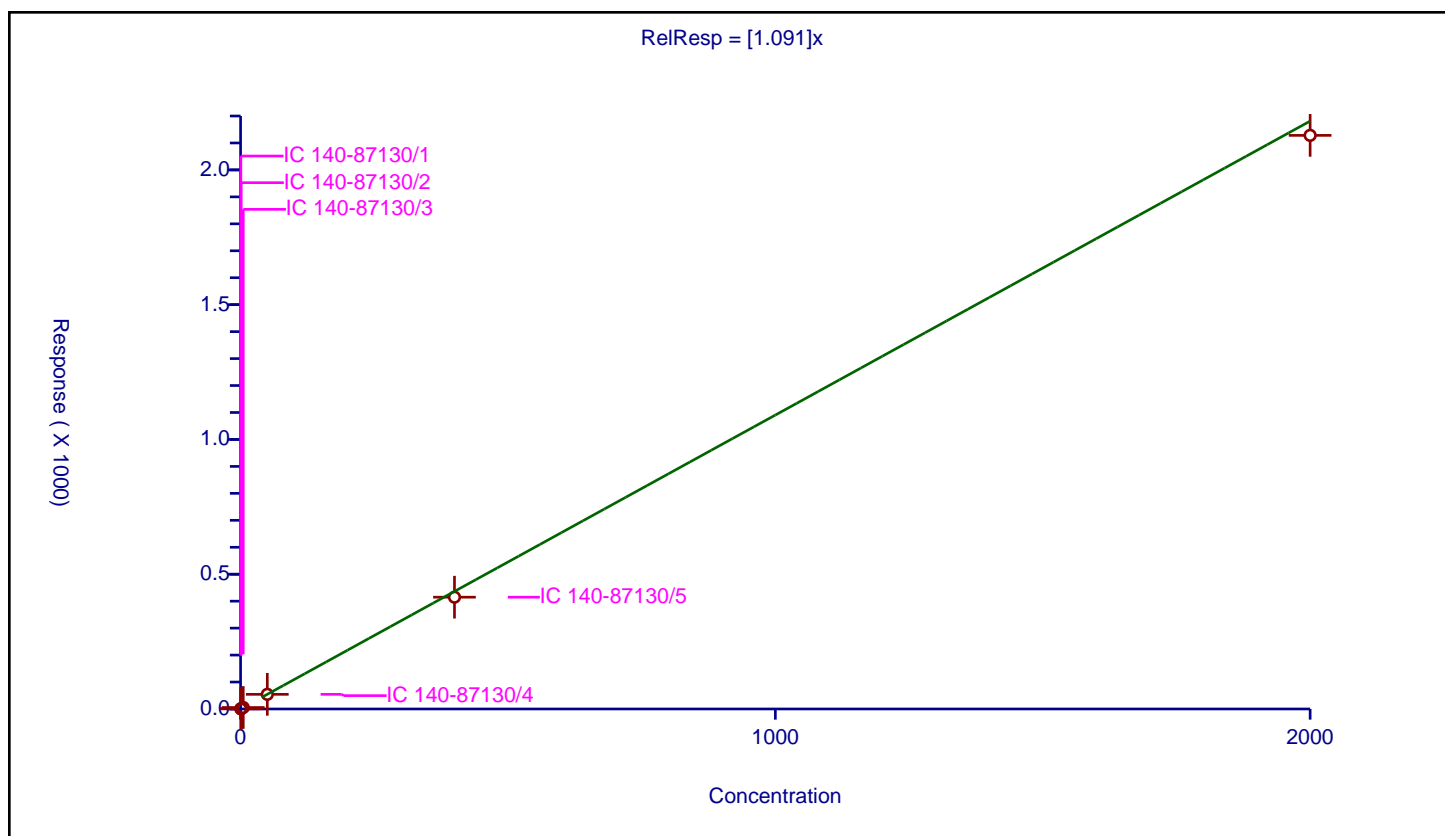
Curve Coefficients

Intercept: 0
Slope: 1.091

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.563751	100.0	7116082.0	1.127502	Y
2	IC 140-87130/2	1.0	1.132585	100.0	6585200.0	1.132585	Y
3	IC 140-87130/3	5.0	5.472809	100.0	6664037.0	1.094562	Y
4	IC 140-87130/4	50.0	54.377261	100.0	6587579.0	1.087545	Y
5	IC 140-87130/5	400.0	414.827564	100.0	7006215.0	1.037069	Y
6	IC 140-87130/6	2000.0	2128.212598	100.0	7440630.0	1.064106	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

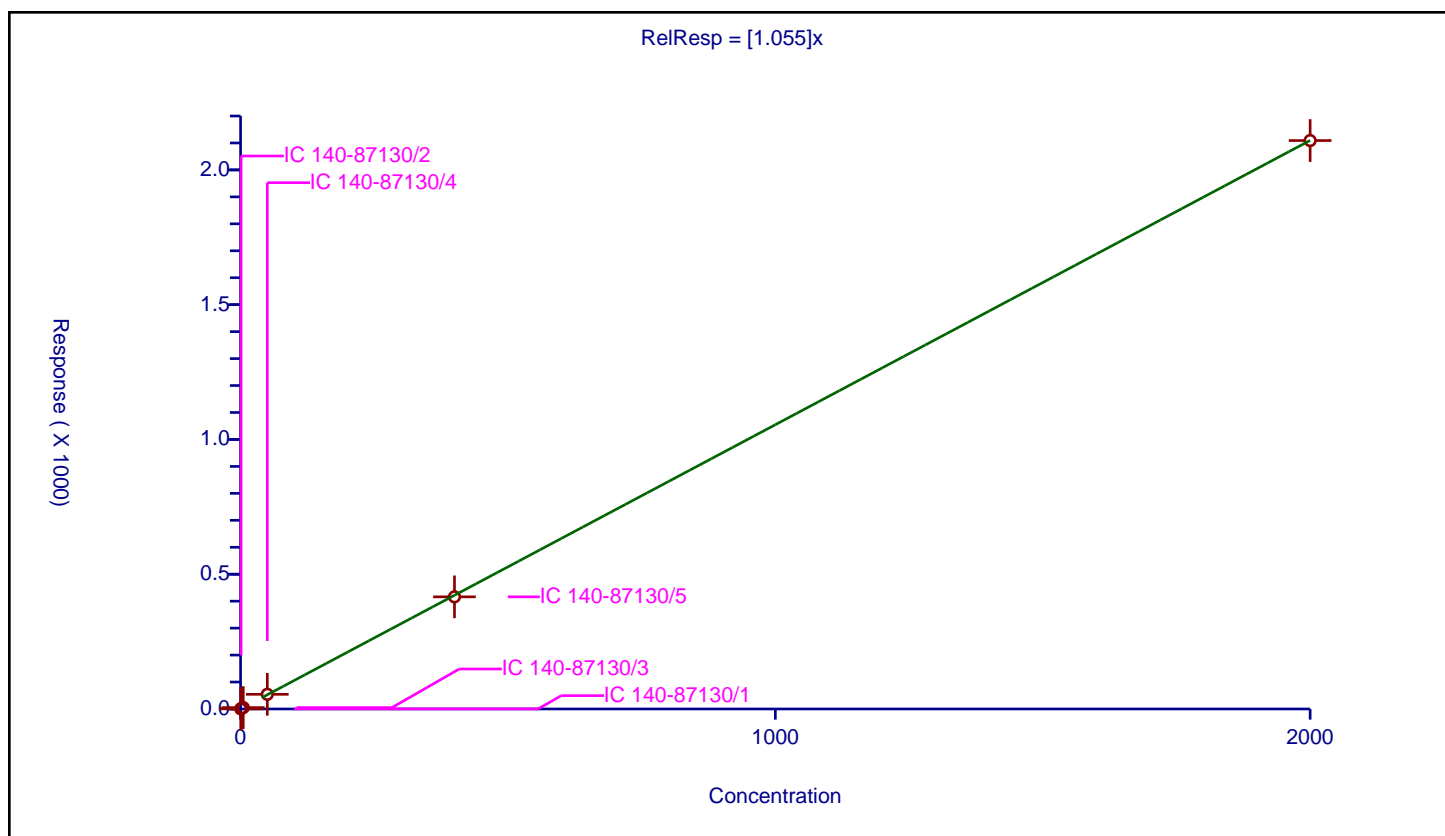
Curve Coefficients

Intercept: 0
Slope: 1.055

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.494977	100.0	7116082.0	0.989955	Y
2	IC 140-87130/2	1.0	1.108121	100.0	6585200.0	1.108121	Y
3	IC 140-87130/3	5.0	5.228152	100.0	6664037.0	1.04563	Y
4	IC 140-87130/4	50.0	54.504819	100.0	6587579.0	1.090096	Y
5	IC 140-87130/5	400.0	416.049764	100.0	7006215.0	1.040124	Y
6	IC 140-87130/6	2000.0	2108.943127	100.0	7440630.0	1.054472	Y



Calibration

/ PCB-192

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

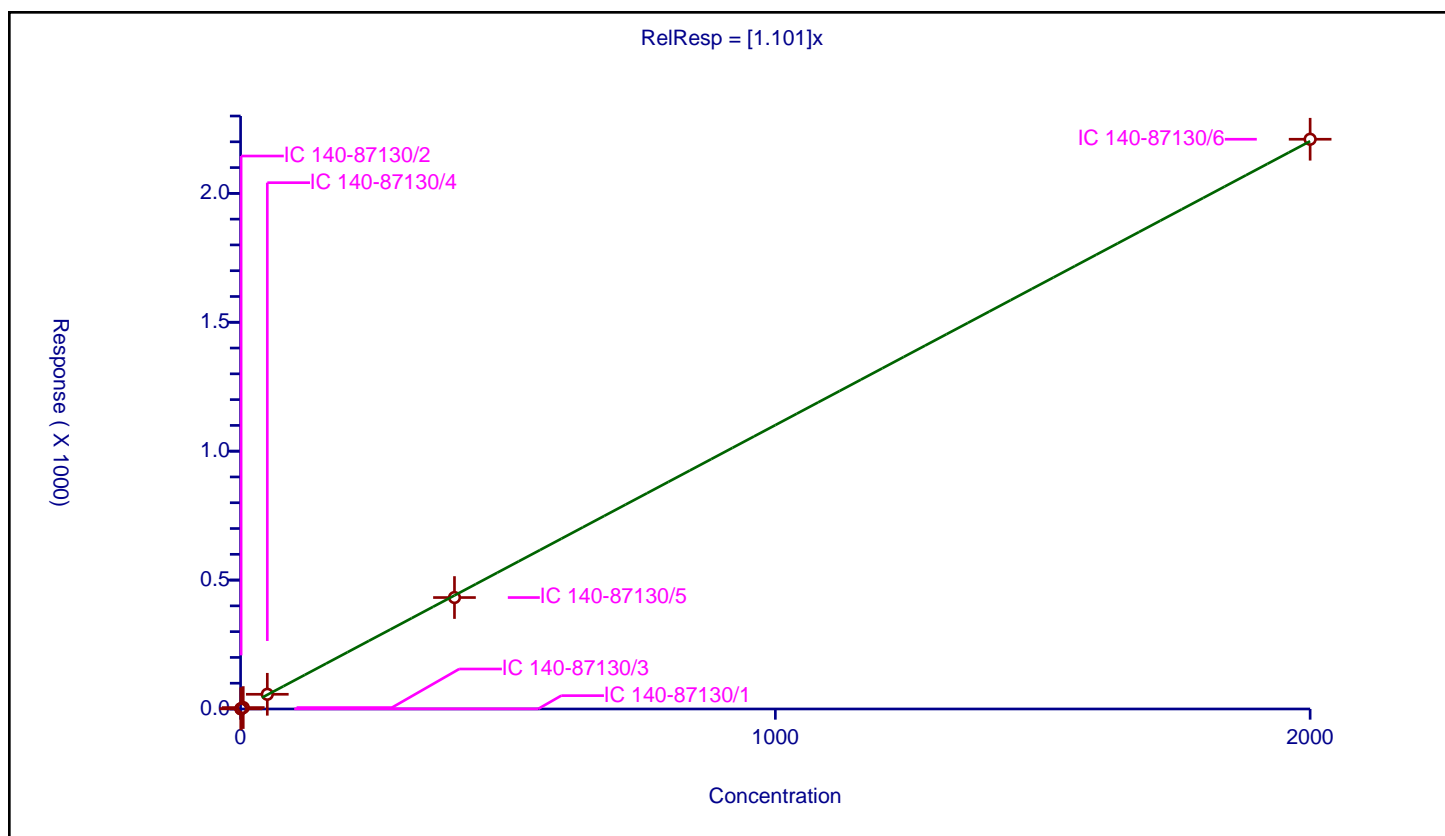
Curve Coefficients

Intercept: 0
 Slope: 1.101

Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.520286	100.0	7116082.0	1.040573	Y
2	IC 140-87130/2	1.0	1.140785	100.0	6585200.0	1.140785	Y
3	IC 140-87130/3	5.0	5.494882	100.0	6664037.0	1.098976	Y
4	IC 140-87130/4	50.0	57.04891	100.0	6587579.0	1.140978	Y
5	IC 140-87130/5	400.0	432.344697	100.0	7006215.0	1.080862	Y
6	IC 140-87130/6	2000.0	2209.879217	100.0	7440630.0	1.10494	Y



Calibration

/ PCB-193

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

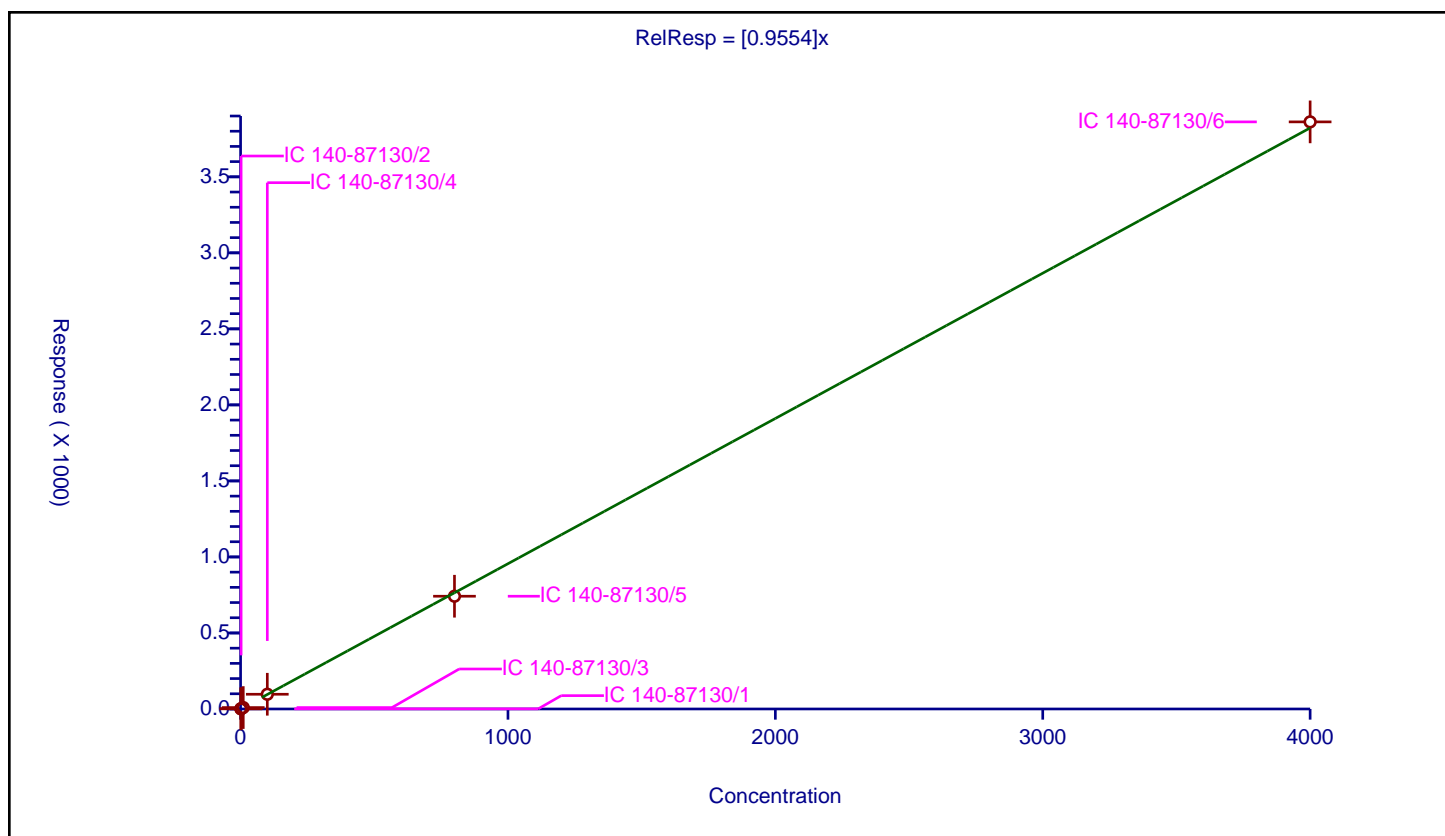
Curve Coefficients

Intercept: 0
 Slope: 0.9554

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.940616	100.0	7116082.0	0.940616	Y
2	IC 140-87130/2	2.0	1.980942	100.0	6585200.0	0.990471	Y
3	IC 140-87130/3	10.0	9.403114	100.0	6664037.0	0.940311	Y
4	IC 140-87130/4	100.0	96.857131	100.0	6587579.0	0.968571	Y
5	IC 140-87130/5	800.0	741.672886	100.0	7006215.0	0.927091	Y
6	IC 140-87130/6	4000.0	3861.399881	100.0	7440630.0	0.96535	Y



Calibration

/ PCB-194

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

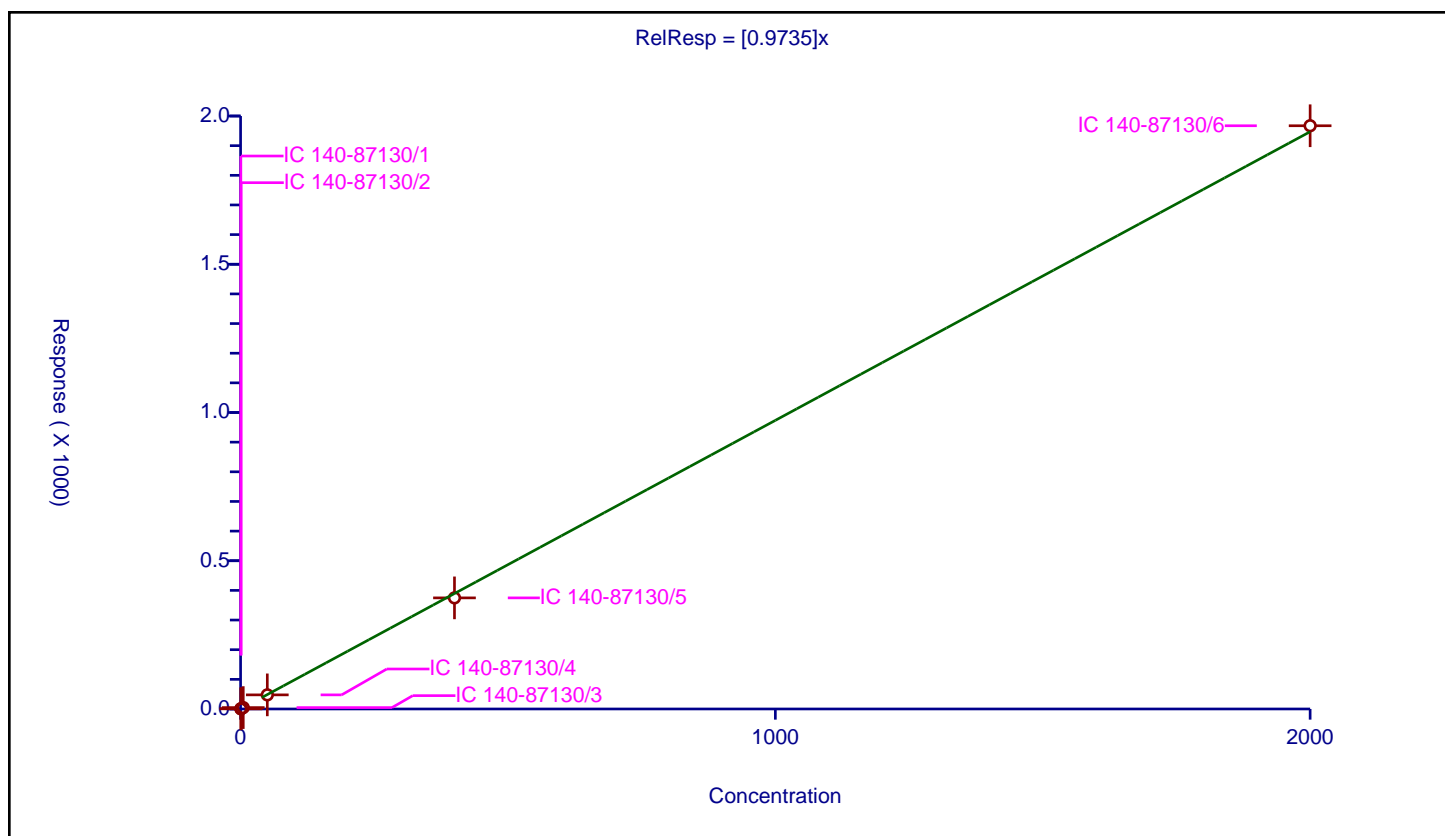
Curve Coefficients

Intercept: 0
 Slope: 0.9735

Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.516466	100.0	9259085.0	1.032931	Y
2	IC 140-87130/2	1.0	0.999097	100.0	8466946.0	0.999097	Y
3	IC 140-87130/3	5.0	4.68423	100.0	8416261.0	0.936846	Y
4	IC 140-87130/4	50.0	47.585287	100.0	8337493.0	0.951706	Y
5	IC 140-87130/5	400.0	374.752675	100.0	8638618.0	0.936882	Y
6	IC 140-87130/6	2000.0	1967.154527	100.0	8823289.0	0.983577	Y



Calibration

/ PCB-195

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

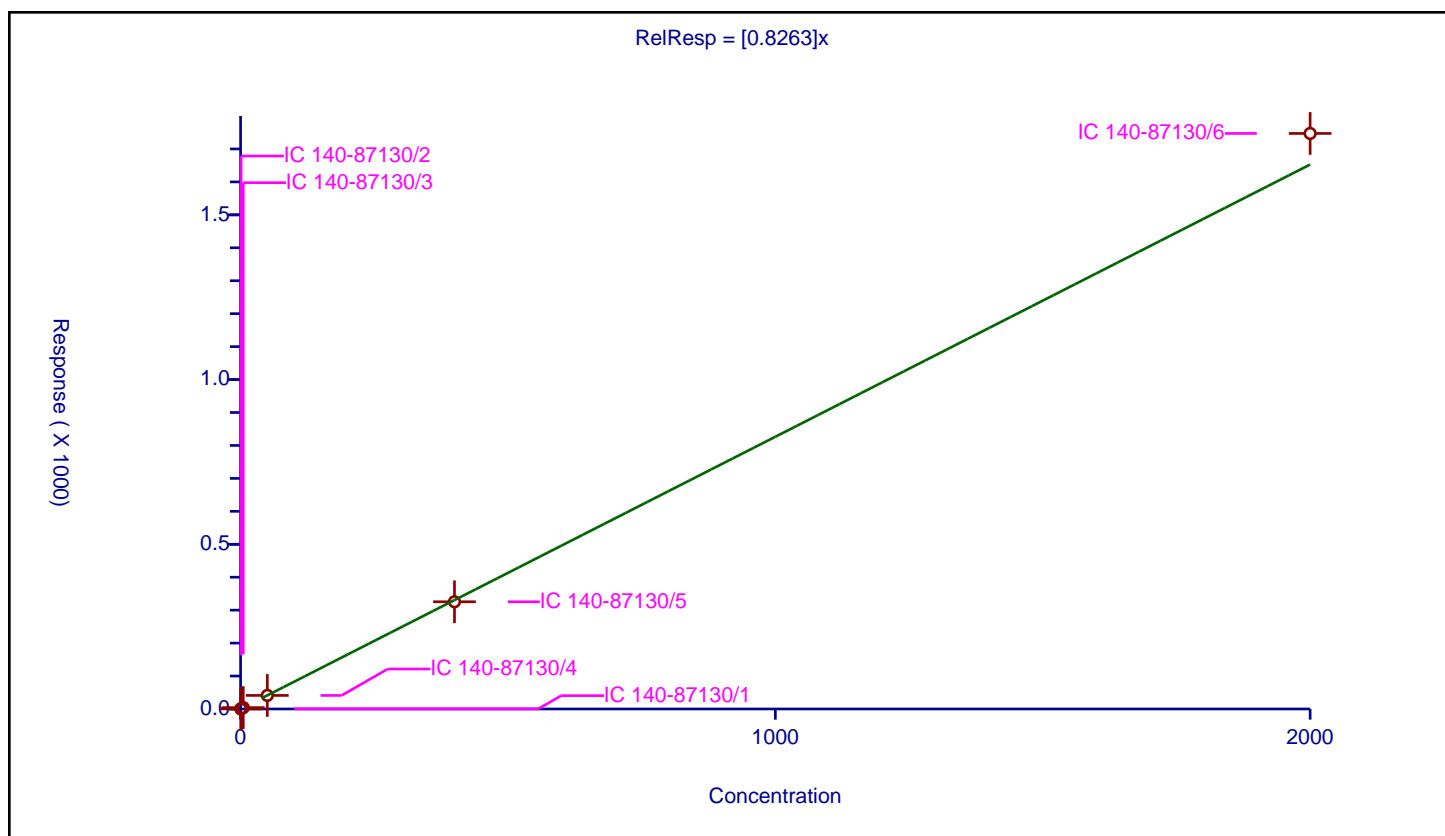
Curve Coefficients

Intercept: 0
 Slope: 0.8263

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.37022	100.0	9259085.0	0.74044	Y
2	IC 140-87130/2	1.0	0.879514	100.0	8466946.0	0.879514	Y
3	IC 140-87130/3	5.0	4.137823	100.0	8416261.0	0.827565	Y
4	IC 140-87130/4	50.0	41.162817	100.0	8337493.0	0.823256	Y
5	IC 140-87130/5	400.0	325.456769	100.0	8638618.0	0.813642	Y
6	IC 140-87130/6	2000.0	1747.0565	100.0	8823289.0	0.873528	Y



Calibration

/ PCB-196

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

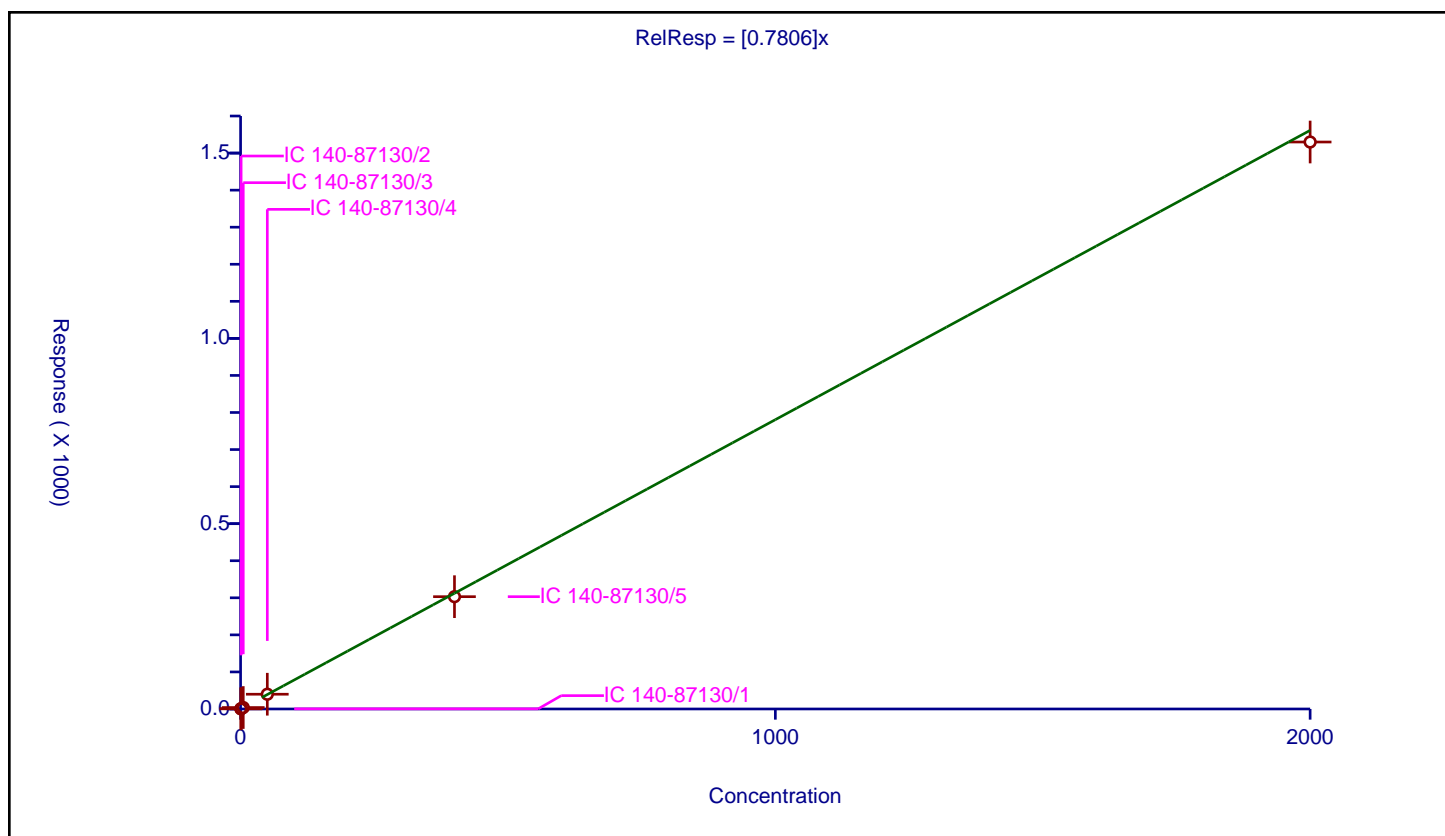
Curve Coefficients

Intercept: 0
 Slope: 0.7806

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.387234	100.0	5622444.0	0.774467	Y
2	IC 140-87130/2	1.0	0.808707	100.0	5103331.0	0.808707	Y
3	IC 140-87130/3	5.0	3.909539	100.0	5089577.0	0.781908	Y
4	IC 140-87130/4	50.0	39.809999	100.0	4754288.0	0.7962	Y
5	IC 140-87130/5	400.0	303.052393	100.0	5079458.0	0.757631	Y
6	IC 140-87130/6	2000.0	1529.853253	100.0	5299657.0	0.764927	Y



/ PCB-197

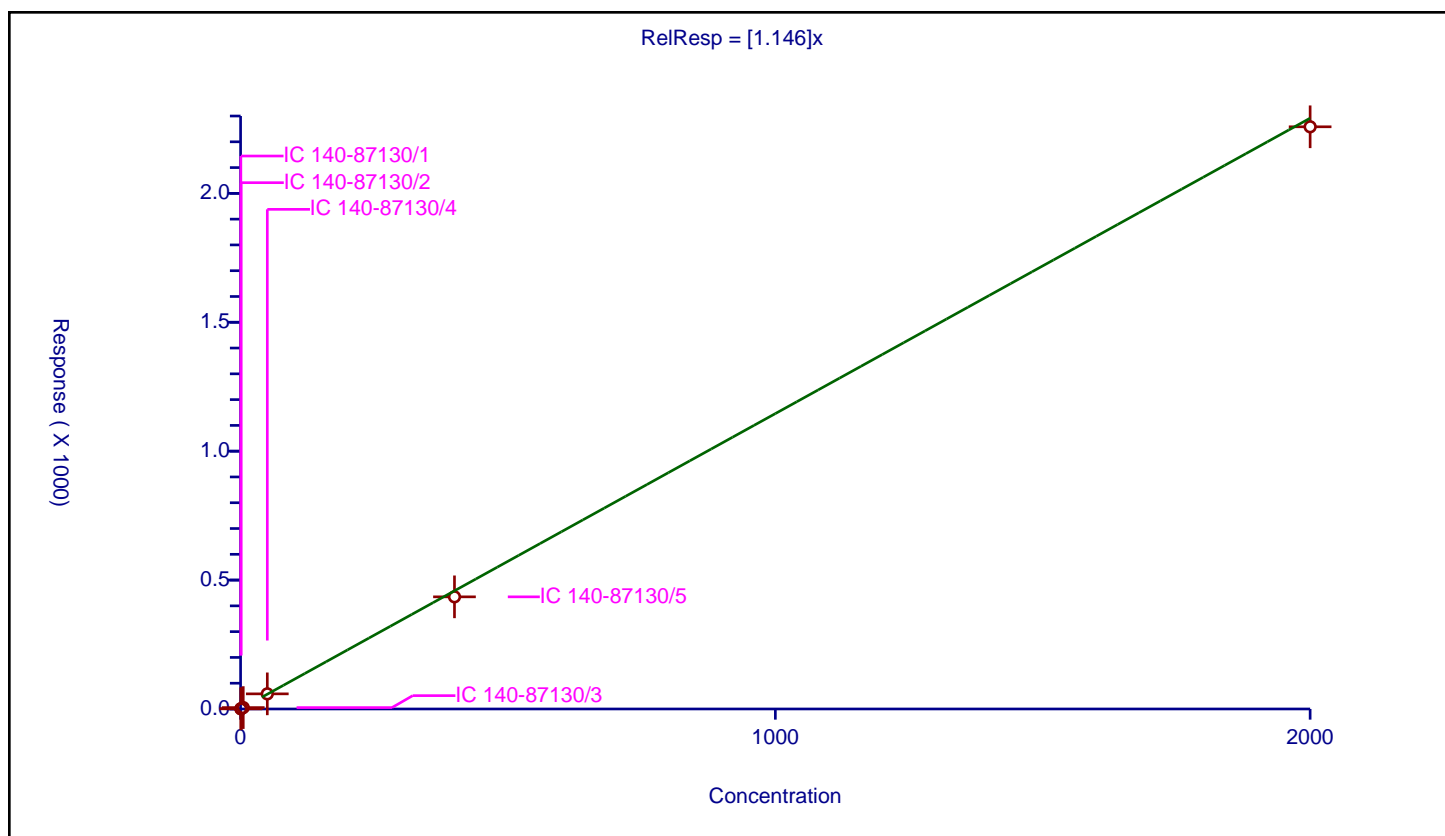
Curve Coefficients

Intercept:	0
Slope:	1.146

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.614466	100.0	5622444.0	1.228932	Y
2	IC 140-87130/2	1.0	1.162123	100.0	5103331.0	1.162123	Y
3	IC 140-87130/3	5.0	5.464973	100.0	5089577.0	1.092995	Y
4	IC 140-87130/4	50.0	58.70349	100.0	4754288.0	1.17407	Y
5	IC 140-87130/5	400.0	434.995171	100.0	5079458.0	1.087488	Y
6	IC 140-87130/6	2000.0	2258.215975	100.0	5299657.0	1.129108	Y



Calibration

/ PCB-198

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

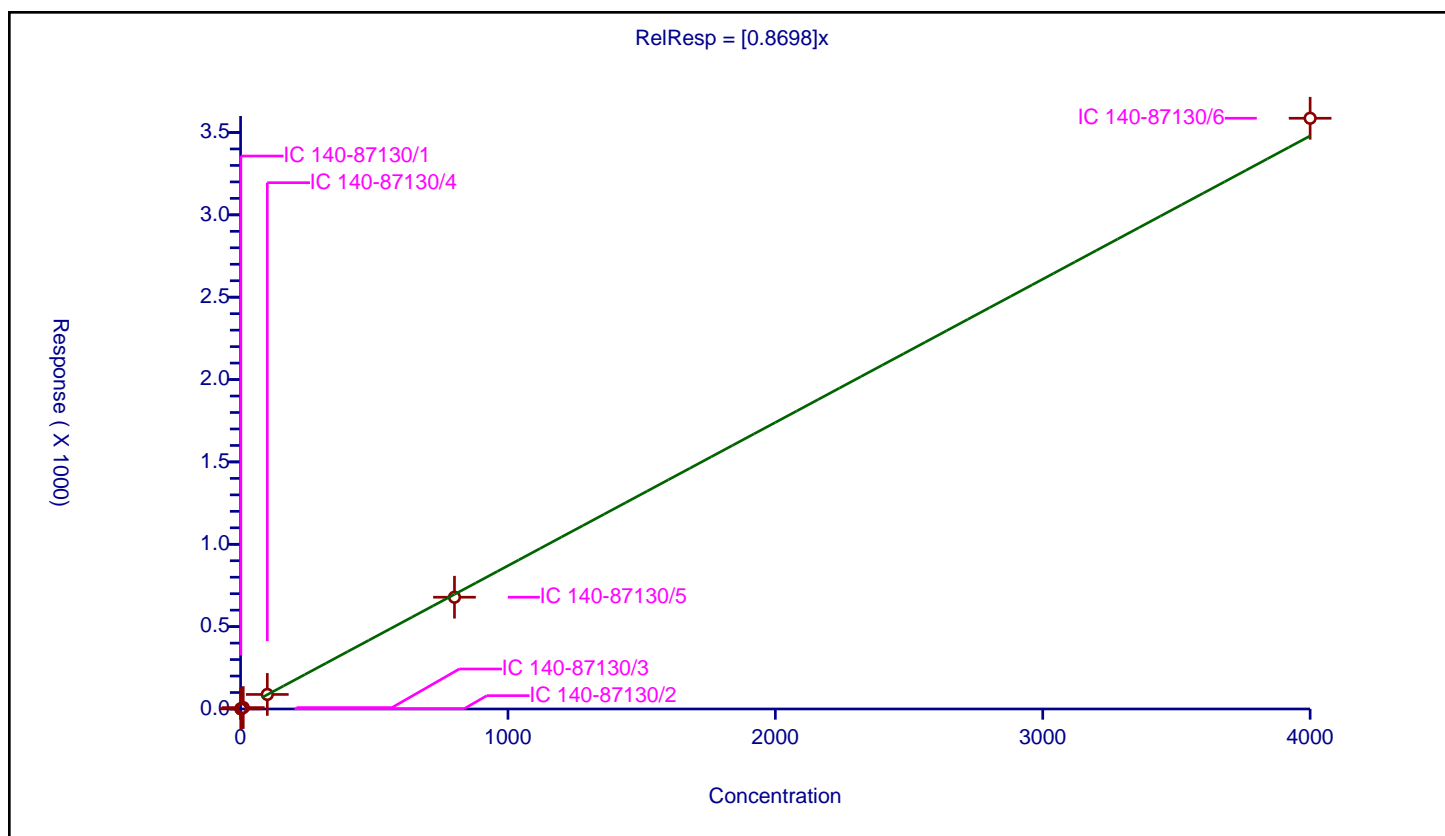
Curve Coefficients

Intercept: 0
Slope: 0.8698

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.881894	100.0	5622444.0	0.881894	Y
2	IC 140-87130/2	2.0	1.72697	100.0	5103331.0	0.863485	Y
3	IC 140-87130/3	10.0	8.456361	100.0	5089577.0	0.845636	Y
4	IC 140-87130/4	100.0	88.292758	100.0	4754288.0	0.882928	Y
5	IC 140-87130/5	800.0	678.541923	100.0	5079458.0	0.848177	Y
6	IC 140-87130/6	4000.0	3586.39161	100.0	5299657.0	0.896598	Y



Calibration

/ PCB-198/199

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

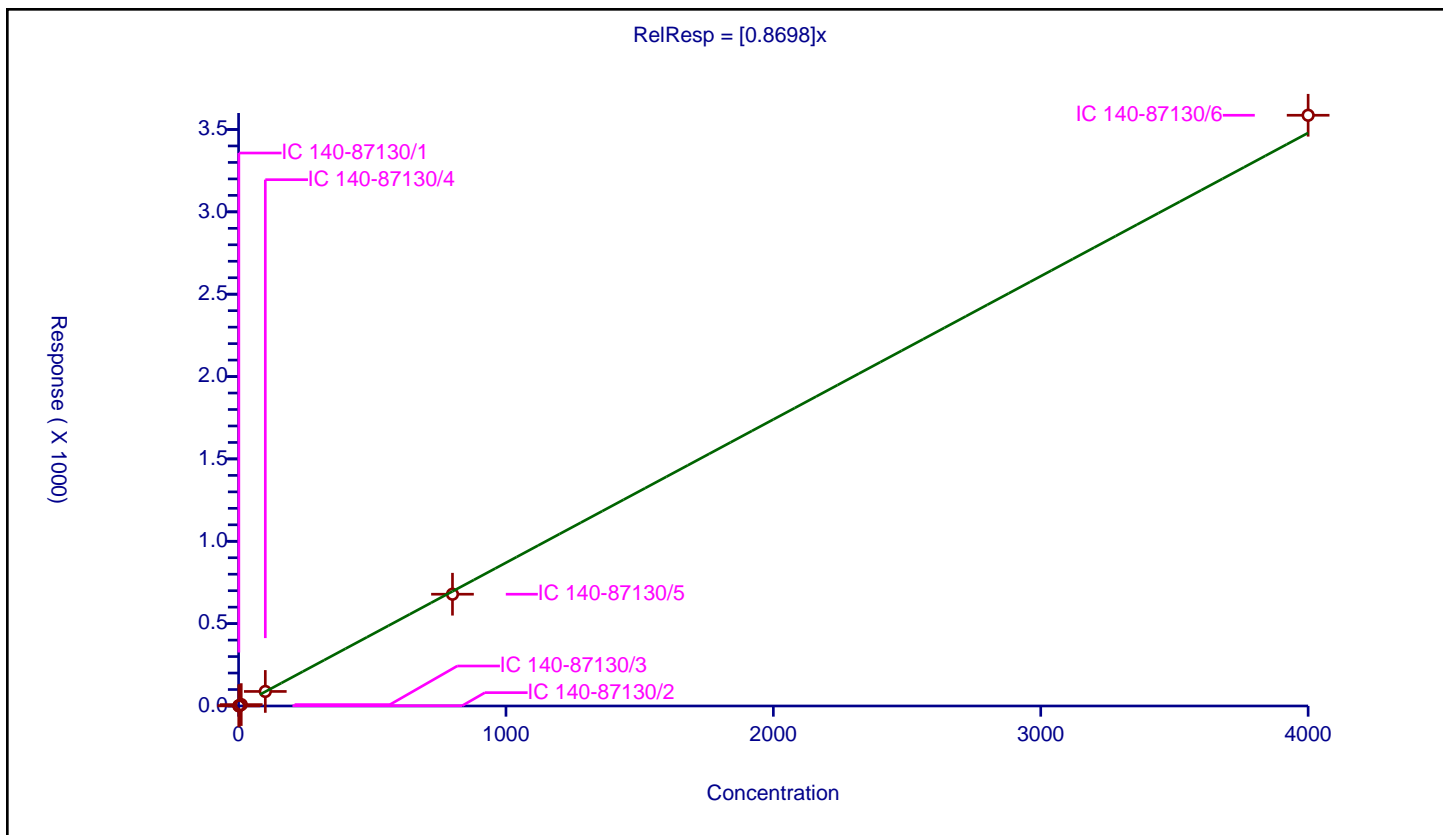
Curve Coefficients

Intercept: 0
Slope: 0.8698

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.881894	100.0	5622444.0	0.881894	Y
2	IC 140-87130/2	2.0	1.72697	100.0	5103331.0	0.863485	Y
3	IC 140-87130/3	10.0	8.456361	100.0	5089577.0	0.845636	Y
4	IC 140-87130/4	100.0	88.292758	100.0	4754288.0	0.882928	Y
5	IC 140-87130/5	800.0	678.541923	100.0	5079458.0	0.848177	Y
6	IC 140-87130/6	4000.0	3586.39161	100.0	5299657.0	0.896598	Y



Calibration

/ PCB-199

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

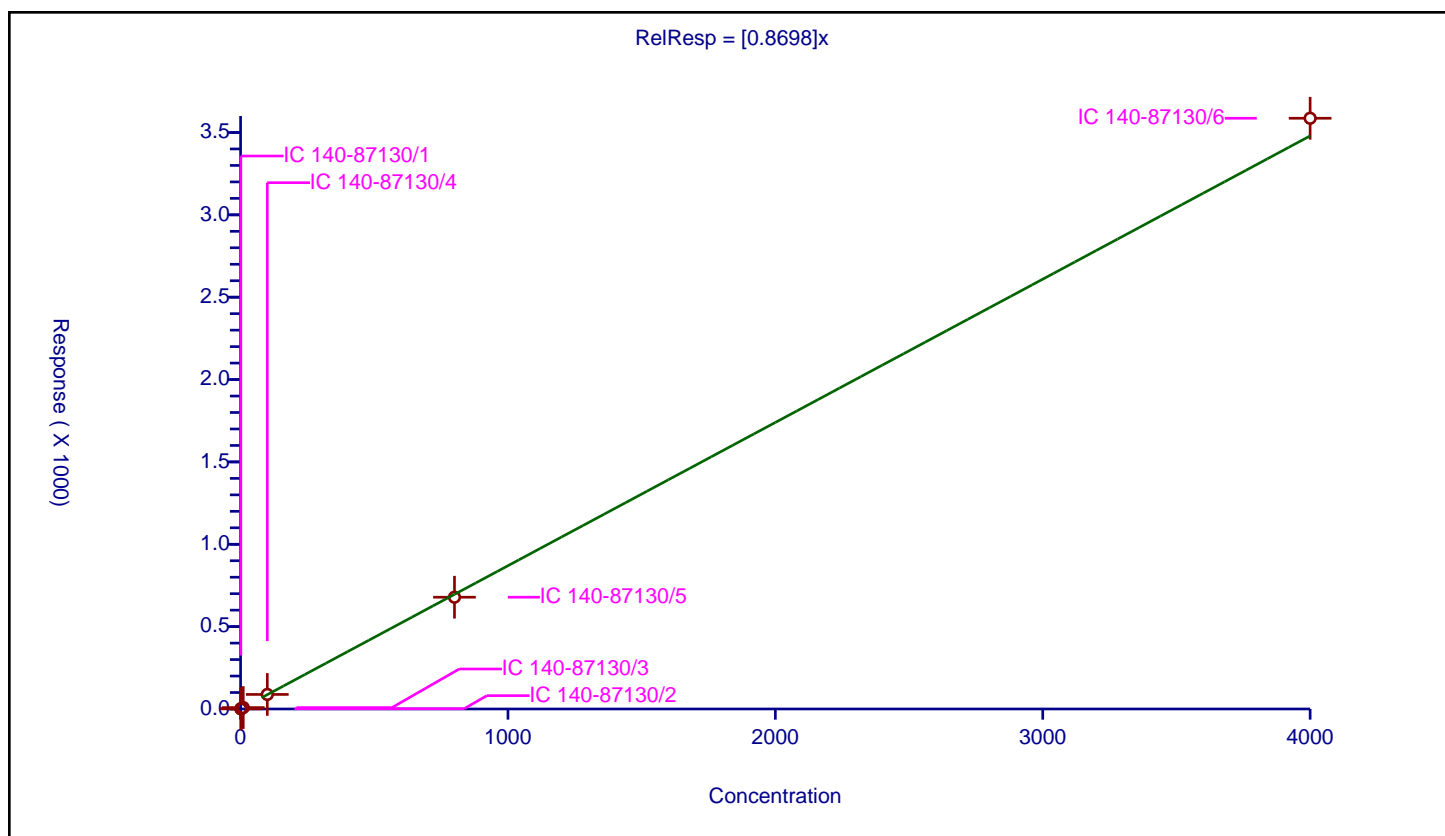
Curve Coefficients

Intercept: 0
 Slope: 0.8698

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.881894	100.0	5622444.0	0.881894	Y
2	IC 140-87130/2	2.0	1.72697	100.0	5103331.0	0.863485	Y
3	IC 140-87130/3	10.0	8.456361	100.0	5089577.0	0.845636	Y
4	IC 140-87130/4	100.0	88.292758	100.0	4754288.0	0.882928	Y
5	IC 140-87130/5	800.0	678.541923	100.0	5079458.0	0.848177	Y
6	IC 140-87130/6	4000.0	3586.39161	100.0	5299657.0	0.896598	Y



Calibration

/ PCB-2

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

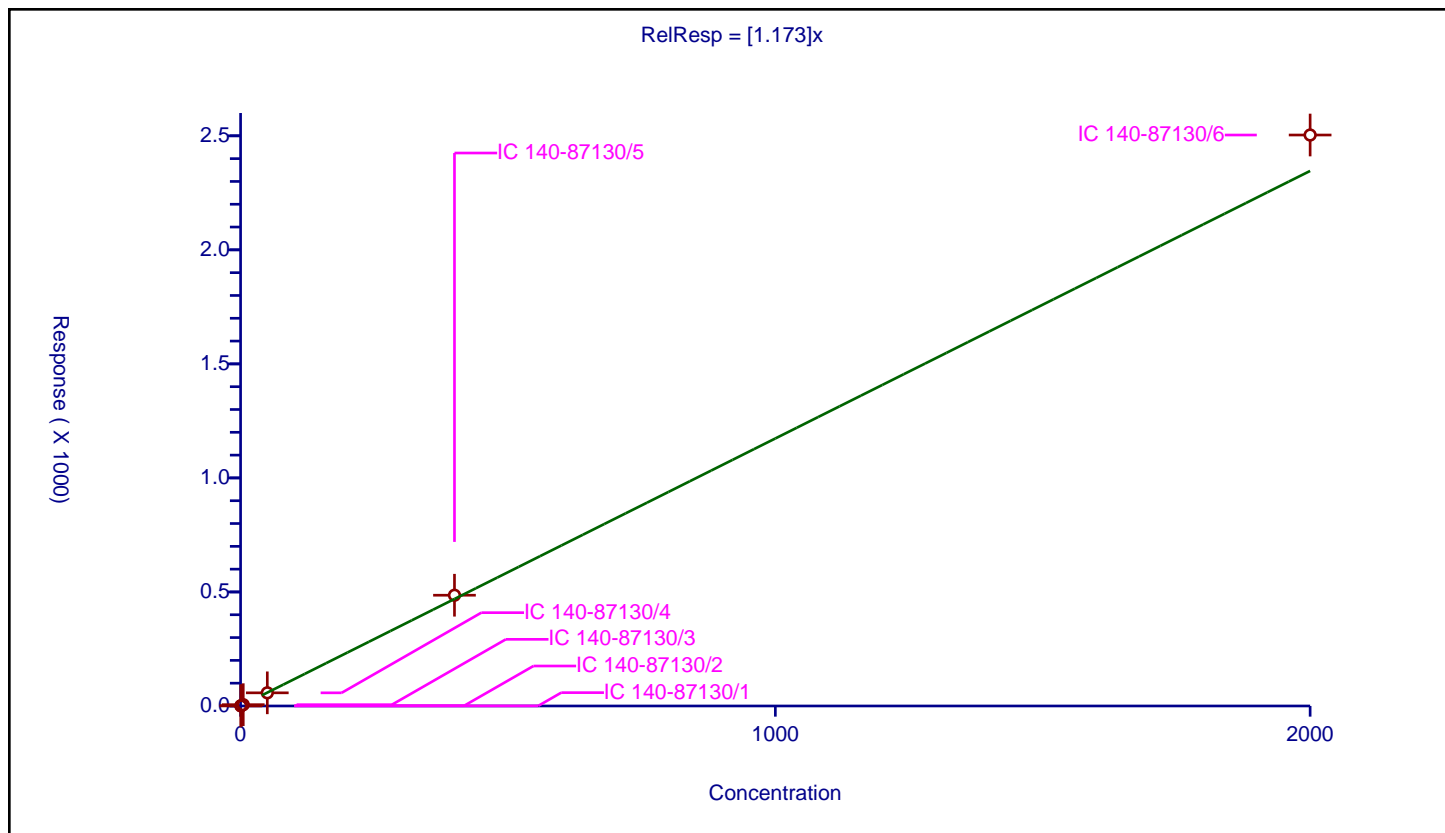
Curve Coefficients

Intercept: 0
Slope: 1.173

Error Coefficients

Relative Standard Deviation: 4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.56171	100.0	14676977.0	1.123419	Y
2	IC 140-87130/2	1.0	1.134341	100.0	13411930.0	1.134341	Y
3	IC 140-87130/3	5.0	5.797565	100.0	13253788.0	1.159513	Y
4	IC 140-87130/4	50.0	57.755063	100.0	13654287.0	1.155101	Y
5	IC 140-87130/5	400.0	485.642646	100.0	13820437.0	1.214107	Y
6	IC 140-87130/6	2000.0	2503.512907	100.0	14103562.0	1.251756	Y



Calibration

/ PCB-20

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

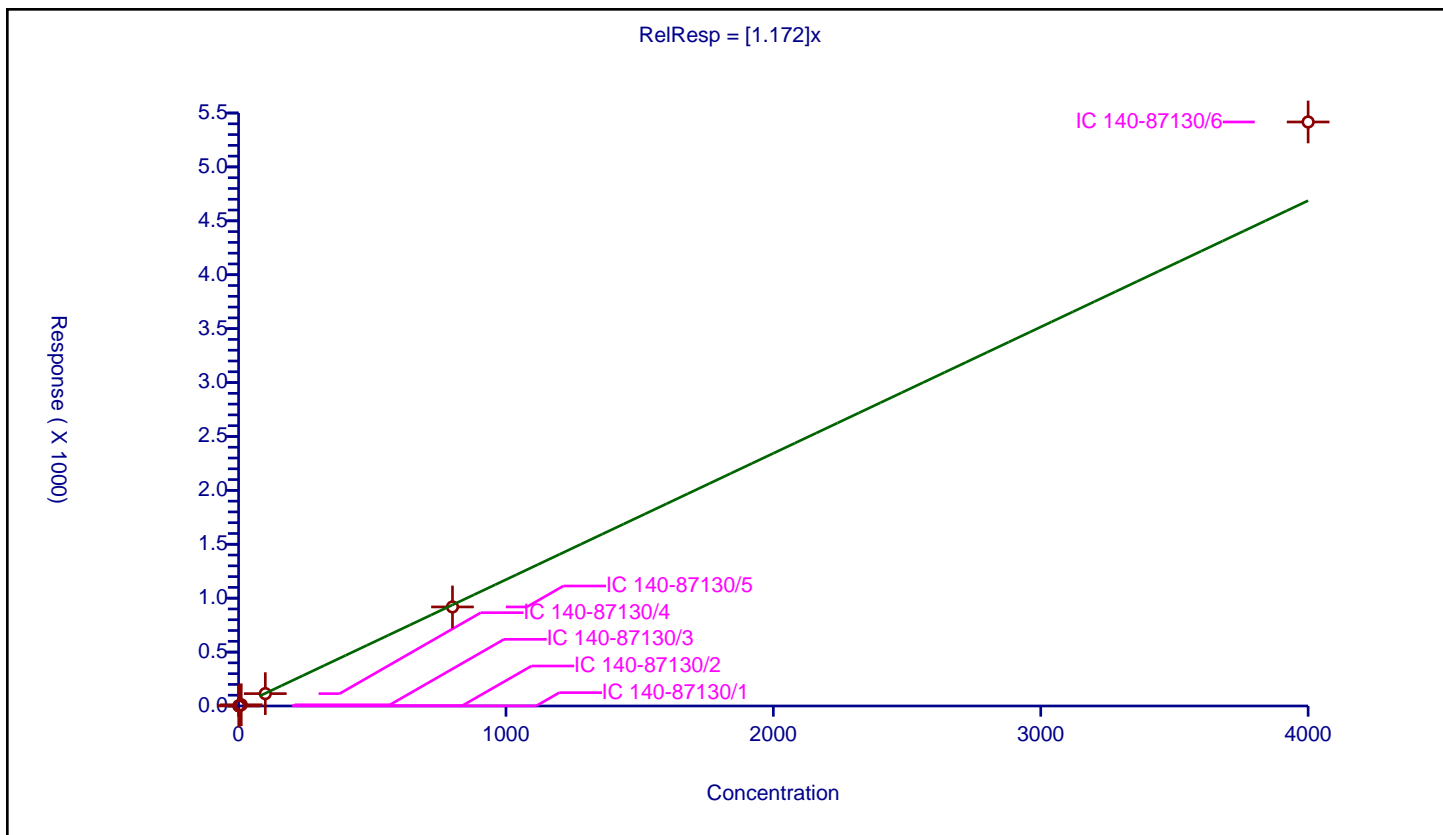
Curve Coefficients

Intercept: 0
 Slope: 1.172

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.125553	100.0	14507892.0	1.125553	Y
2	IC 140-87130/2	2.0	2.250698	100.0	13255798.0	1.125349	Y
3	IC 140-87130/3	10.0	11.314001	100.0	13114910.0	1.1314	Y
4	IC 140-87130/4	100.0	114.571284	100.0	13535671.0	1.145713	Y
5	IC 140-87130/5	800.0	918.868256	100.0	14730805.0	1.148585	Y
6	IC 140-87130/6	4000.0	5416.90331	100.0	15552321.0	1.354226	Y



Calibration

/ PCB-20/28

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

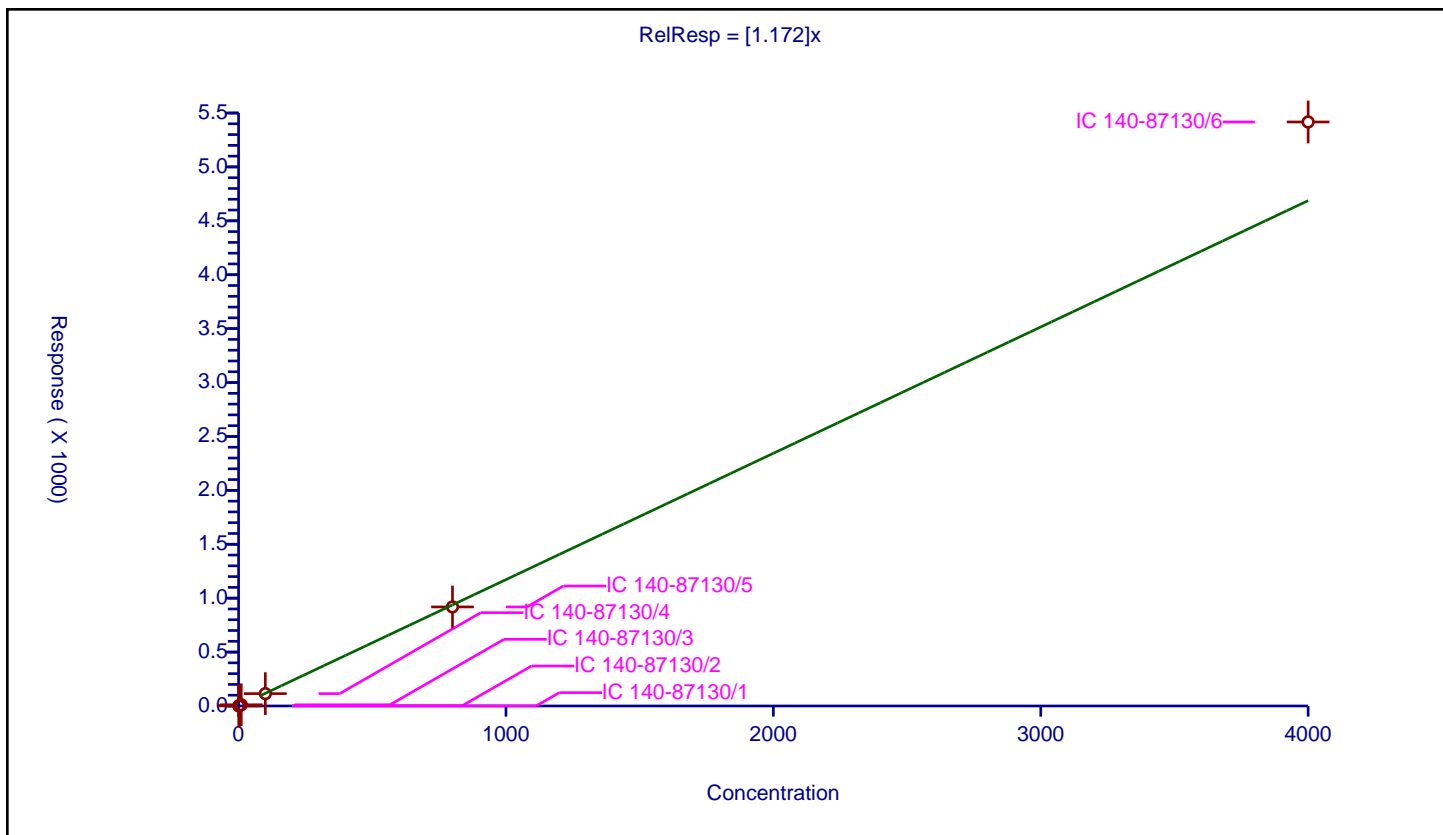
Curve Coefficients

Intercept: 0
 Slope: 1.172

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.125553	100.0	14507892.0	1.125553	Y
2	IC 140-87130/2	2.0	2.250698	100.0	13255798.0	1.125349	Y
3	IC 140-87130/3	10.0	11.314001	100.0	13114910.0	1.1314	Y
4	IC 140-87130/4	100.0	114.571284	100.0	13535671.0	1.145713	Y
5	IC 140-87130/5	800.0	918.868256	100.0	14730805.0	1.148585	Y
6	IC 140-87130/6	4000.0	5416.90331	100.0	15552321.0	1.354226	Y



Calibration

/ PCB-200

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

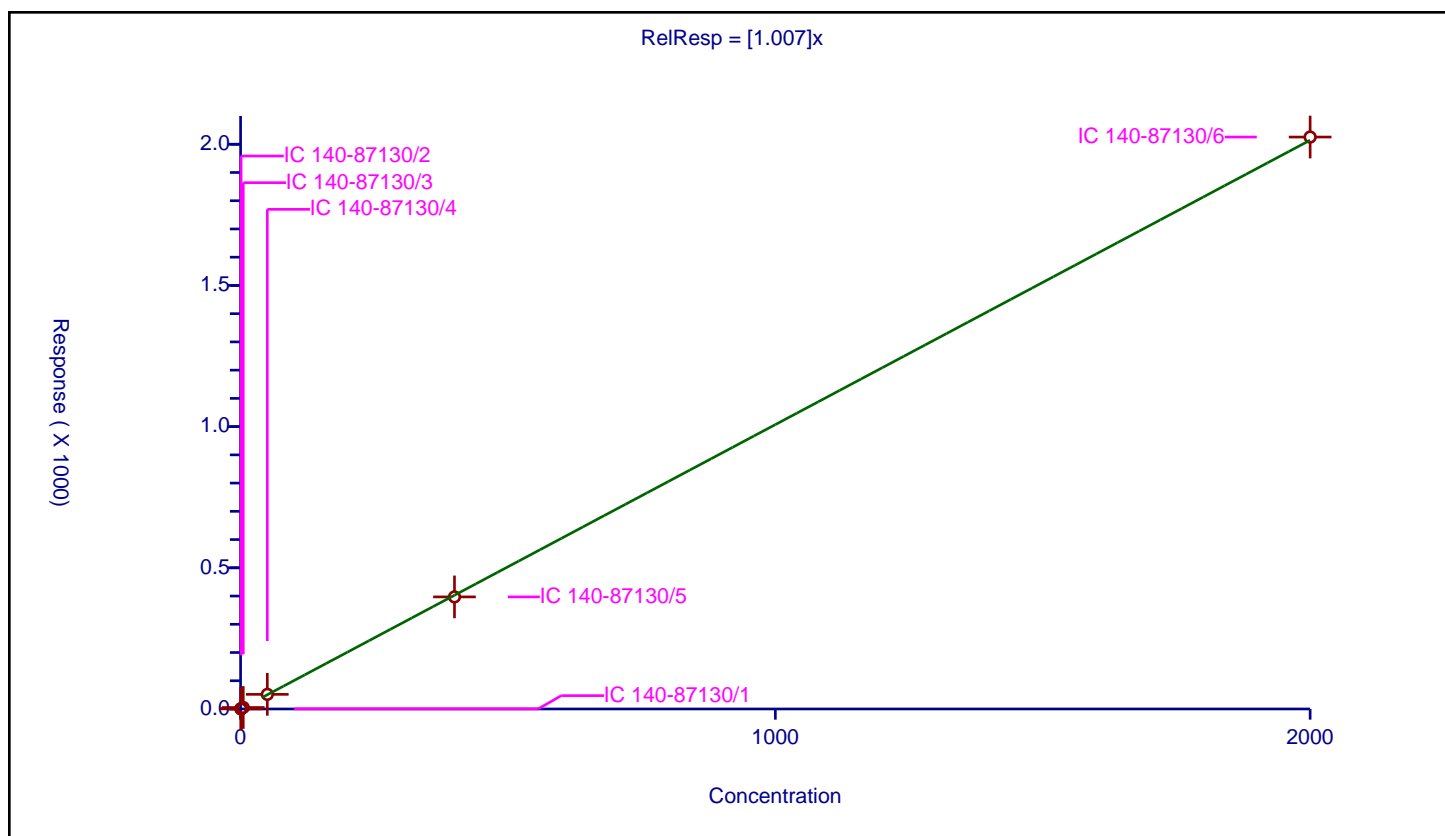
Curve Coefficients

Intercept: 0
Slope: 1.007

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.461383	100.0	5622444.0	0.922766	Y
2	IC 140-87130/2	1.0	1.039615	100.0	5103331.0	1.039615	Y
3	IC 140-87130/3	5.0	5.200629	100.0	5089577.0	1.040126	Y
4	IC 140-87130/4	50.0	51.768362	100.0	4754288.0	1.035367	Y
5	IC 140-87130/5	400.0	396.964026	100.0	5079458.0	0.99241	Y
6	IC 140-87130/6	2000.0	2025.474158	100.0	5299657.0	1.012737	Y



Calibration

/ PCB-201

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

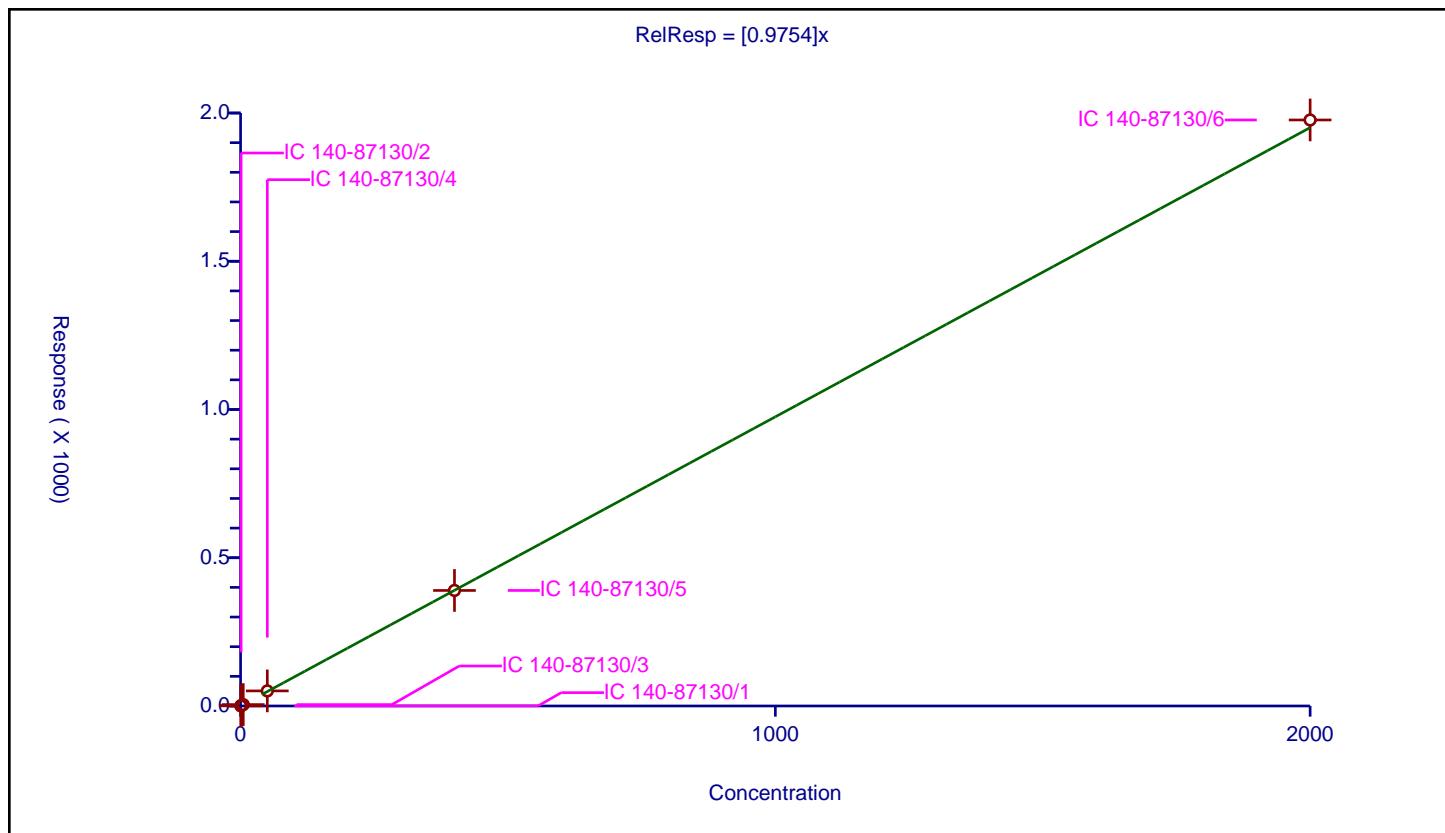
Curve Coefficients

Intercept: 0
 Slope: 0.9754

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.463571	100.0	5622444.0	0.927141	Y
2	IC 140-87130/2	1.0	0.993312	100.0	5103331.0	0.993312	Y
3	IC 140-87130/3	5.0	4.758627	100.0	5089577.0	0.951725	Y
4	IC 140-87130/4	50.0	50.882782	100.0	4754288.0	1.017656	Y
5	IC 140-87130/5	400.0	389.640312	100.0	5079458.0	0.974101	Y
6	IC 140-87130/6	2000.0	1976.55837	100.0	5299657.0	0.988279	Y



Calibration

/ PCB-202

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

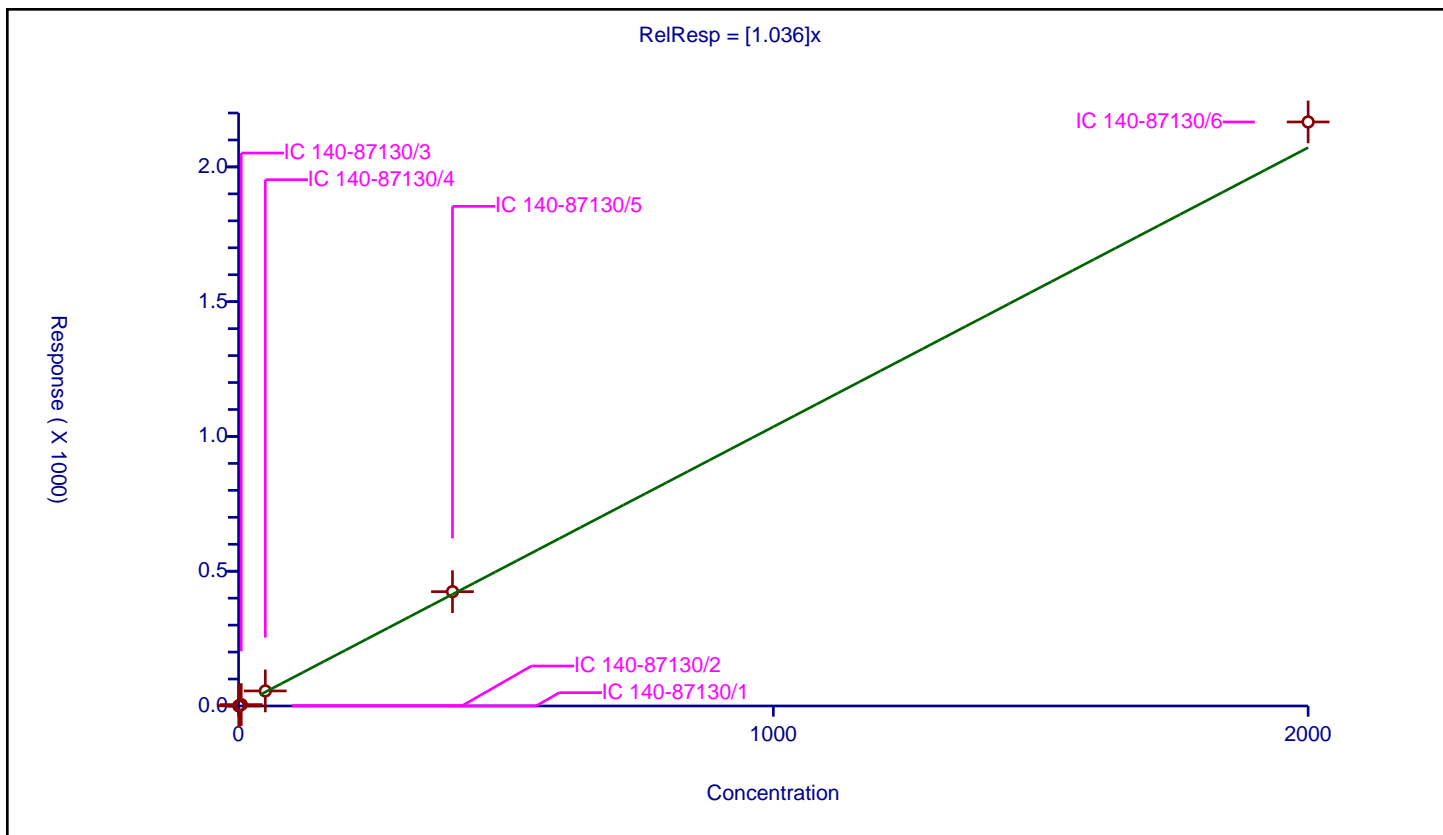
Curve Coefficients

Intercept: 0
 Slope: 1.036

Error Coefficients

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.457346	100.0	5622444.0	0.914691	Y
2	IC 140-87130/2	1.0	1.000699	100.0	5103331.0	1.000699	Y
3	IC 140-87130/3	5.0	5.196267	100.0	5089577.0	1.039253	Y
4	IC 140-87130/4	50.0	55.82857	100.0	4754288.0	1.116571	Y
5	IC 140-87130/5	400.0	424.203114	100.0	5079458.0	1.060508	Y
6	IC 140-87130/6	2000.0	2166.861082	100.0	5299657.0	1.083431	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

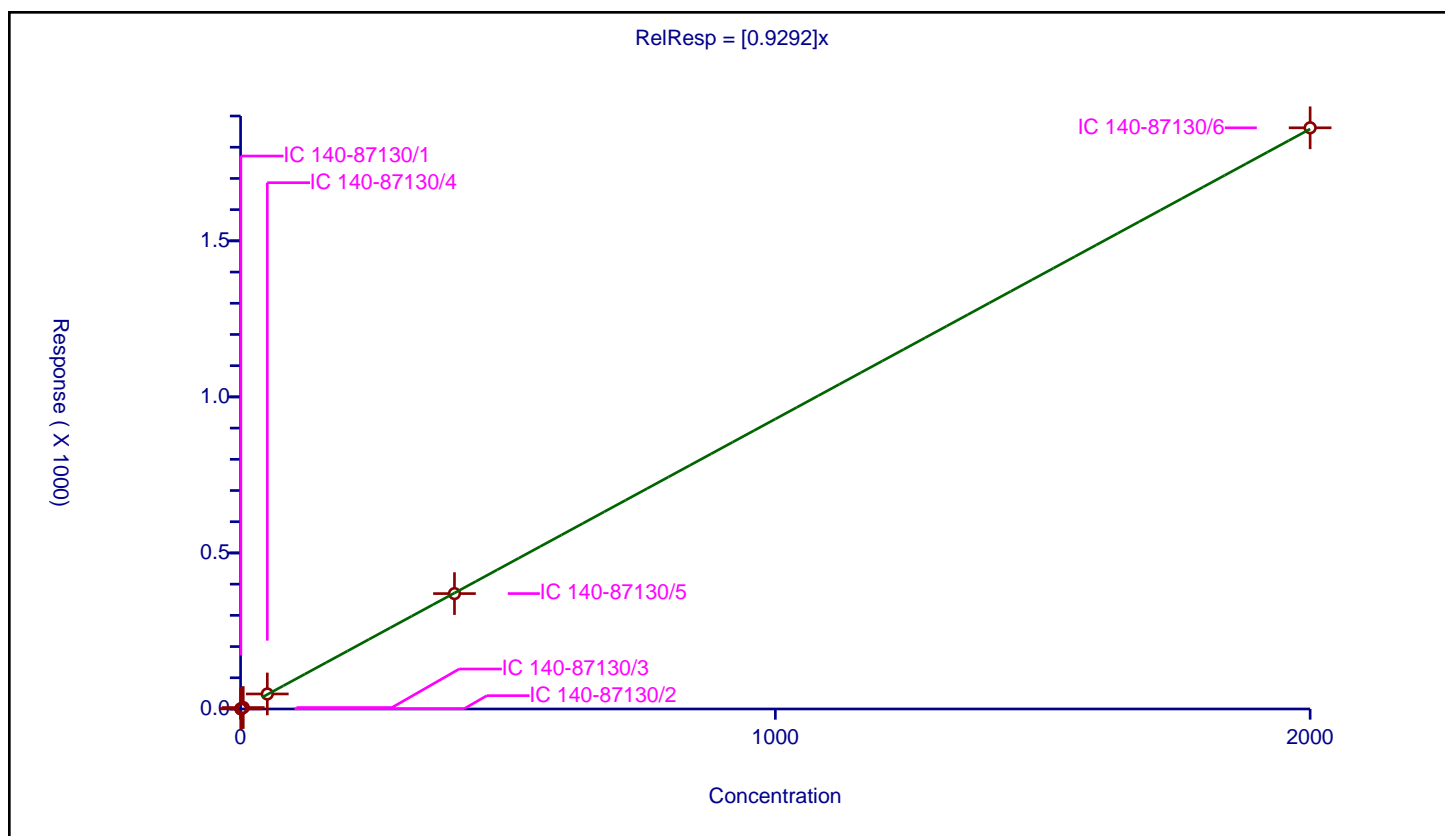
Curve Coefficients

Intercept: 0
Slope: 0.9292

Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.472855	100.0	5622444.0	0.94571	Y
2	IC 140-87130/2	1.0	0.884246	100.0	5103331.0	0.884246	Y
3	IC 140-87130/3	5.0	4.633136	100.0	5089577.0	0.926627	Y
4	IC 140-87130/4	50.0	48.15821	100.0	4754288.0	0.963164	Y
5	IC 140-87130/5	400.0	369.761282	100.0	5079458.0	0.924403	Y
6	IC 140-87130/6	2000.0	1862.268577	100.0	5299657.0	0.931134	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

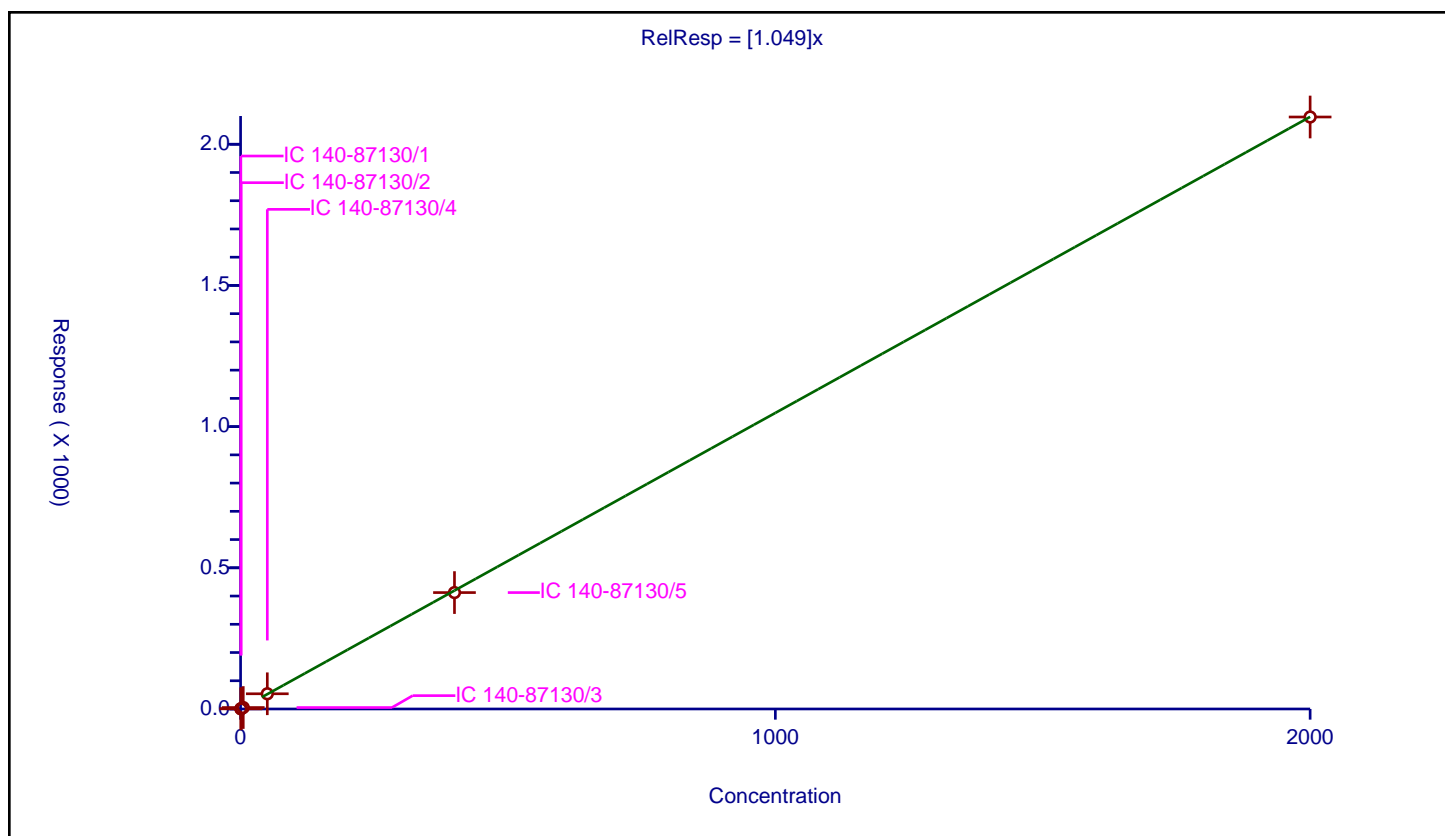
Curve Coefficients

Intercept: 0
Slope: 1.049

Error Coefficients

Relative Standard Deviation: 2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.532491	100.0	5622444.0	1.064982	Y
2	IC 140-87130/2	1.0	1.048786	100.0	5103331.0	1.048786	Y
3	IC 140-87130/3	5.0	5.102251	100.0	5089577.0	1.02045	Y
4	IC 140-87130/4	50.0	53.899553	100.0	4754288.0	1.077991	Y
5	IC 140-87130/5	400.0	412.258414	100.0	5079458.0	1.030646	Y
6	IC 140-87130/6	2000.0	2096.551437	100.0	5299657.0	1.048276	Y



Calibration

/ PCB-205

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

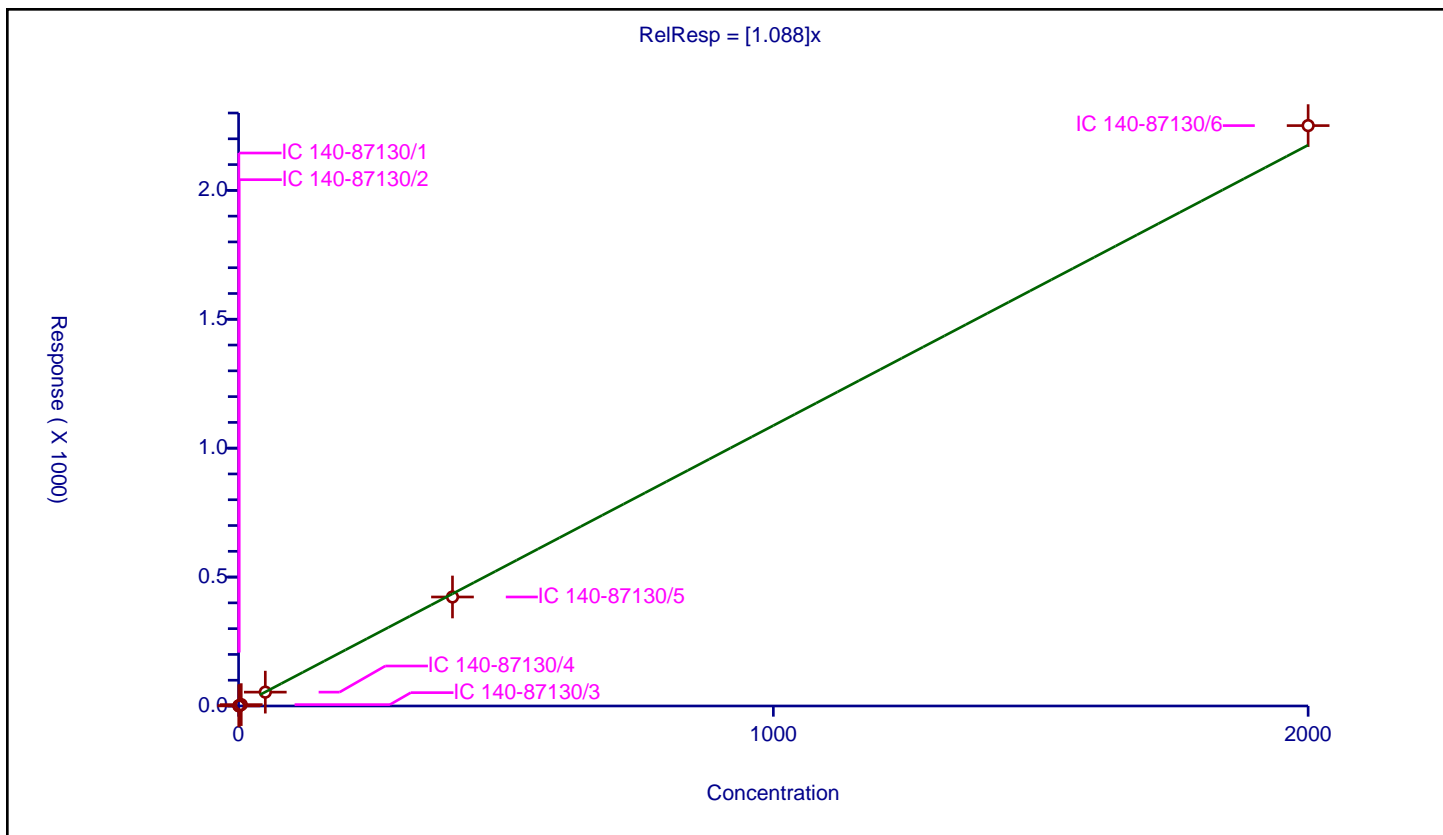
Curve Coefficients

Intercept: 0
Slope: 1.088

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.546091	100.0	9259085.0	1.092181	Y
2	IC 140-87130/2	1.0	1.112361	100.0	8466946.0	1.112361	Y
3	IC 140-87130/3	5.0	5.325952	100.0	8416261.0	1.06519	Y
4	IC 140-87130/4	50.0	53.71027	100.0	8337493.0	1.074205	Y
5	IC 140-87130/5	400.0	422.802224	100.0	8638618.0	1.057006	Y
6	IC 140-87130/6	2000.0	2251.219562	100.0	8823289.0	1.12561	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

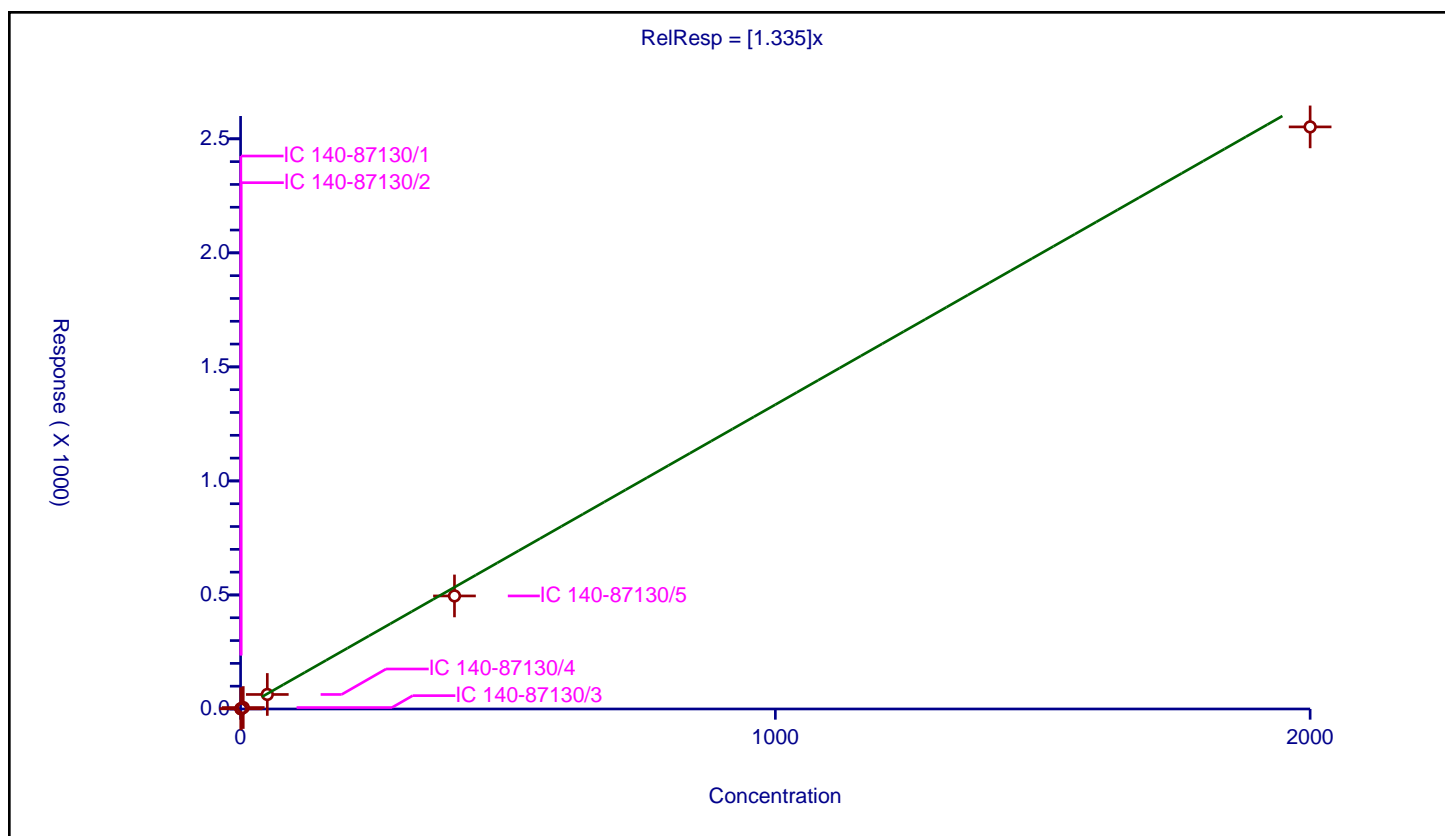
Curve Coefficients

Intercept: 0
Slope: 1.335

Error Coefficients

Relative Standard Deviation: 9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.790021	100.0	5499727.0	1.580042	Y
2	IC 140-87130/2	1.0	1.374218	100.0	4908757.0	1.374218	Y
3	IC 140-87130/3	5.0	6.317299	100.0	5024711.0	1.26346	Y
4	IC 140-87130/4	50.0	63.715313	100.0	4903942.0	1.274306	Y
5	IC 140-87130/5	400.0	495.726085	100.0	5087280.0	1.239315	Y
6	IC 140-87130/6	2000.0	2552.25413	100.0	5196483.0	1.276127	Y



Calibration

/ PCB-207

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

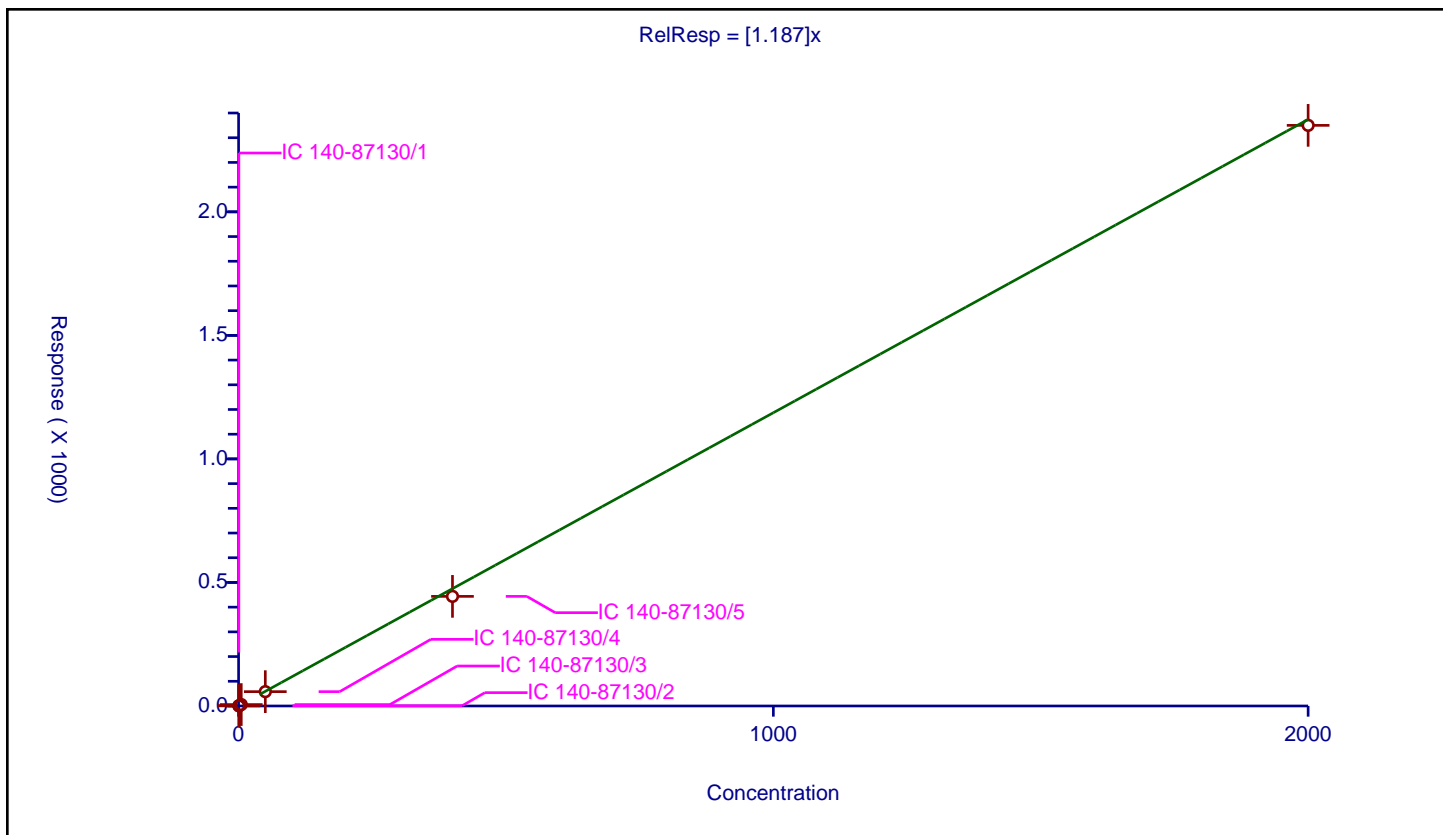
Curve Coefficients

Intercept: 0
 Slope: 1.187

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.665599	100.0	7500908.0	1.331199	Y
2	IC 140-87130/2	1.0	1.181299	100.0	6757986.0	1.181299	Y
3	IC 140-87130/3	5.0	5.820938	100.0	6859651.0	1.164188	Y
4	IC 140-87130/4	50.0	58.054956	100.0	6680775.0	1.161099	Y
5	IC 140-87130/5	400.0	443.625932	100.0	7135804.0	1.109065	Y
6	IC 140-87130/6	2000.0	2350.061025	100.0	7275684.0	1.175031	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

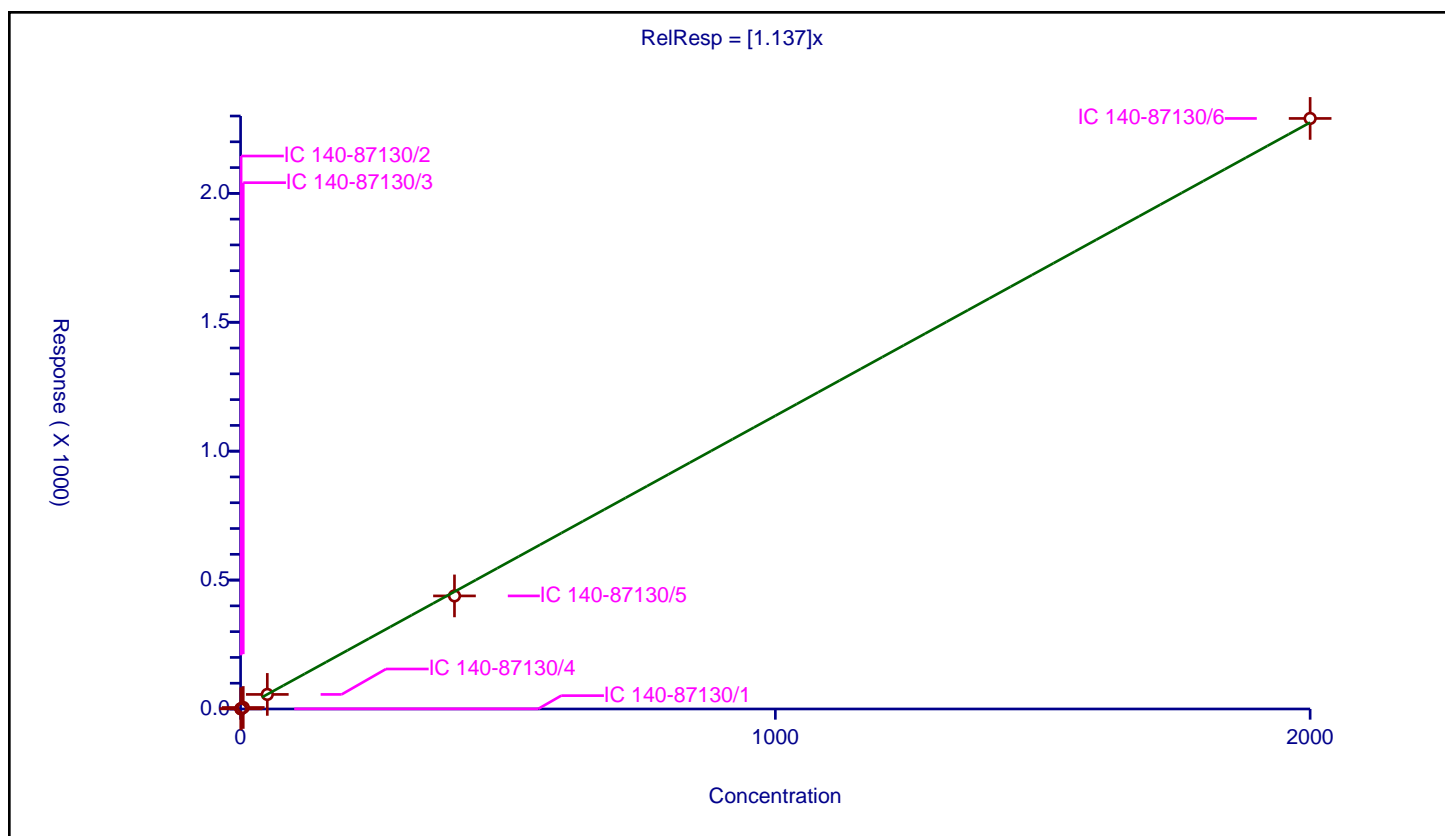
Curve Coefficients

Intercept: 0
Slope: 1.137

Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.554533	100.0	7500908.0	1.109066	Y
2	IC 140-87130/2	1.0	1.178739	100.0	6757986.0	1.178739	Y
3	IC 140-87130/3	5.0	5.825005	100.0	6859651.0	1.165001	Y
4	IC 140-87130/4	50.0	56.499313	100.0	6680775.0	1.129986	Y
5	IC 140-87130/5	400.0	438.638533	100.0	7135804.0	1.096596	Y
6	IC 140-87130/6	2000.0	2290.579635	100.0	7275684.0	1.14529	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

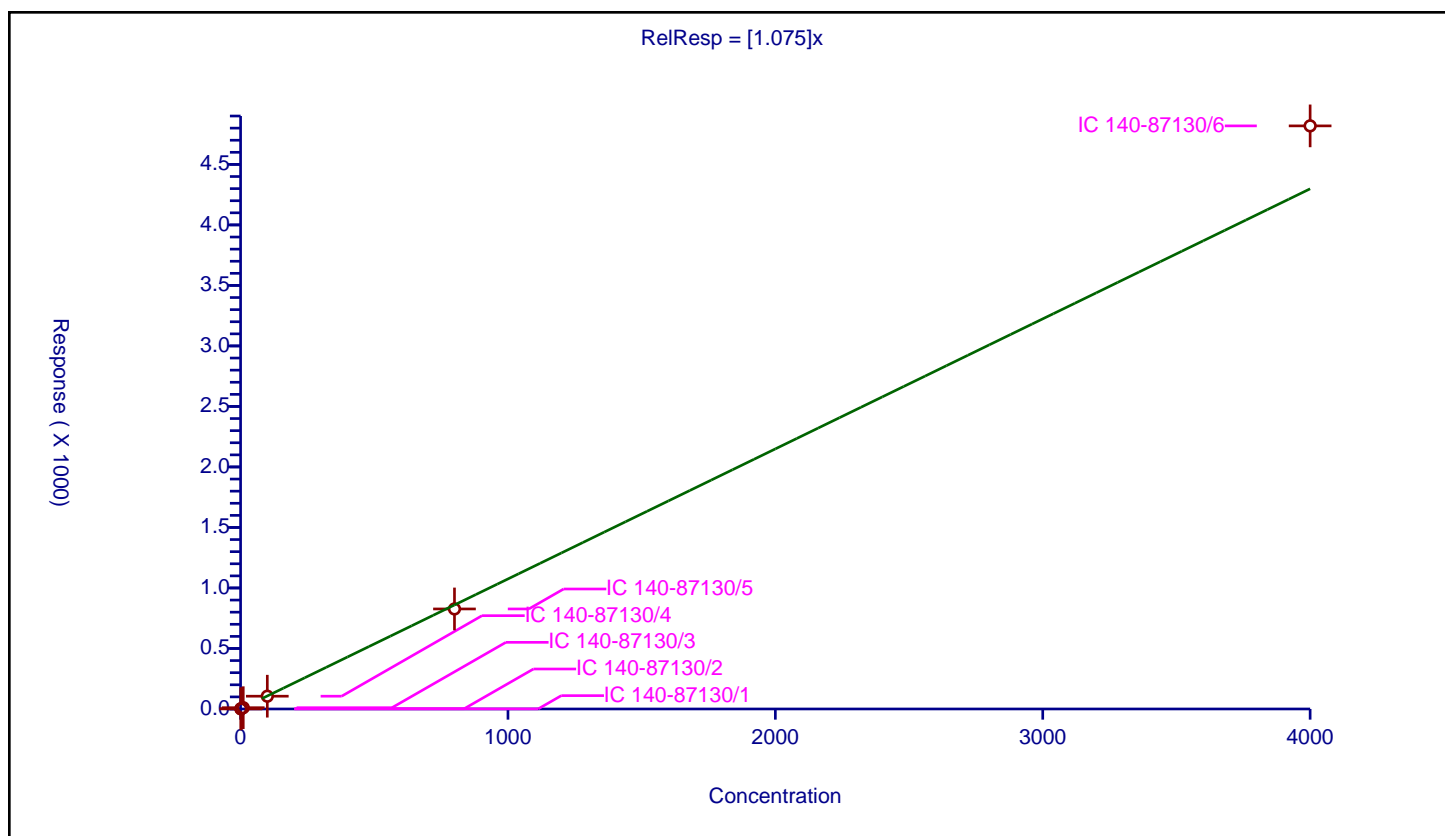
Curve Coefficients

Intercept: 0
Slope: 1.075

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.018136	100.0	14507892.0	1.018136	Y
2	IC 140-87130/2	2.0	2.127311	100.0	13255798.0	1.063655	Y
3	IC 140-87130/3	10.0	10.703085	100.0	13114910.0	1.070309	Y
4	IC 140-87130/4	100.0	105.751285	100.0	13535671.0	1.057513	Y
5	IC 140-87130/5	800.0	826.614581	100.0	14730805.0	1.033268	Y
6	IC 140-87130/6	4000.0	4818.507366	100.0	15552321.0	1.204627	Y



Calibration

/ PCB-21/33

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

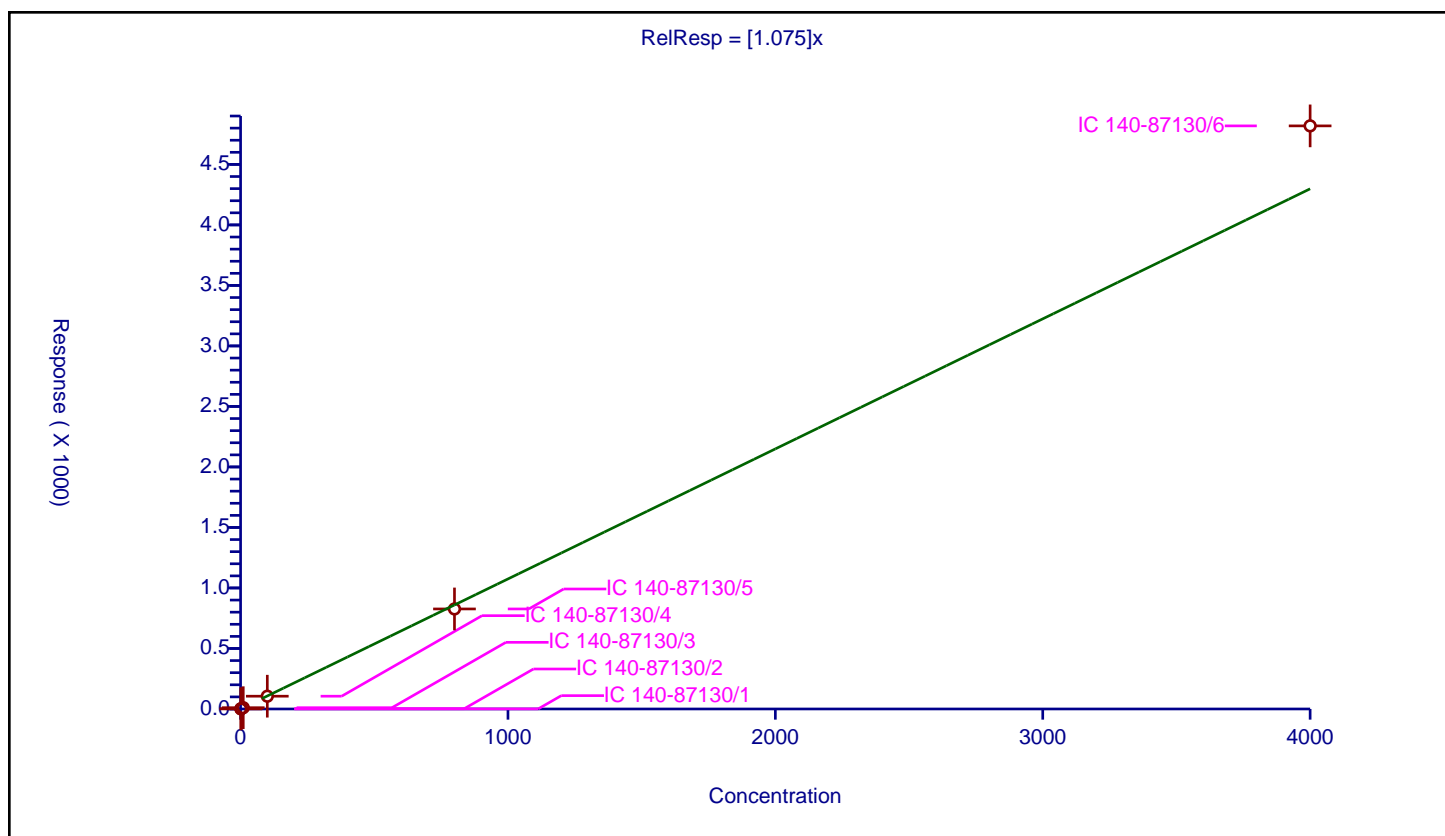
Curve Coefficients

Intercept: 0
Slope: 1.075

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.018136	100.0	14507892.0	1.018136	Y
2	IC 140-87130/2	2.0	2.127311	100.0	13255798.0	1.063655	Y
3	IC 140-87130/3	10.0	10.703085	100.0	13114910.0	1.070309	Y
4	IC 140-87130/4	100.0	105.751285	100.0	13535671.0	1.057513	Y
5	IC 140-87130/5	800.0	826.614581	100.0	14730805.0	1.033268	Y
6	IC 140-87130/6	4000.0	4818.507366	100.0	15552321.0	1.204627	Y



Calibration

/ PCB-22

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

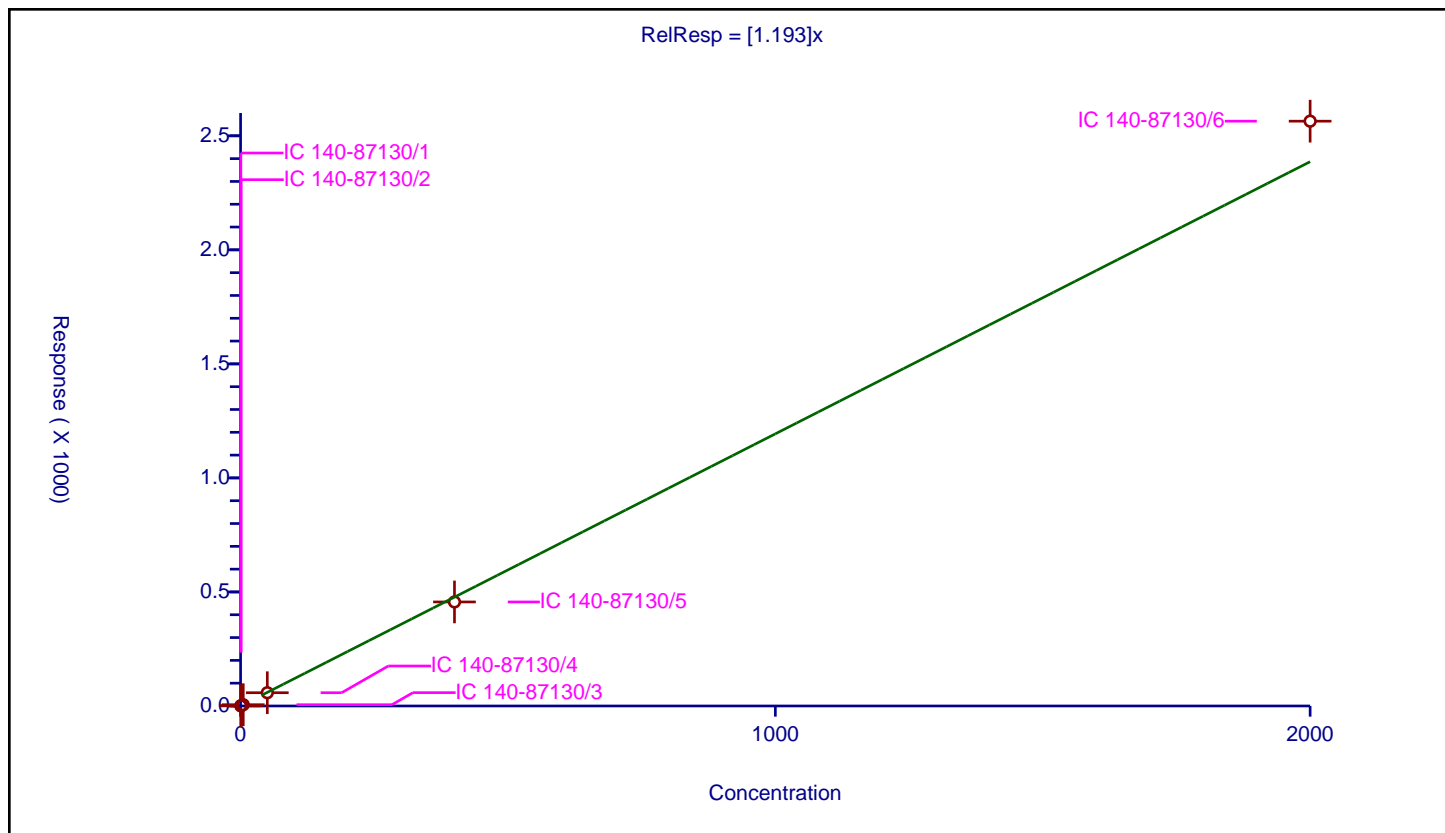
Curve Coefficients

Intercept: 0
Slope: 1.193

Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.60272	100.0	14507892.0	1.20544	Y
2	IC 140-87130/2	1.0	1.240031	100.0	13255798.0	1.240031	Y
3	IC 140-87130/3	5.0	5.639909	100.0	13114910.0	1.127982	Y
4	IC 140-87130/4	50.0	58.176	100.0	13535671.0	1.16352	Y
5	IC 140-87130/5	400.0	456.164439	100.0	14730805.0	1.140411	Y
6	IC 140-87130/6	2000.0	2564.170923	100.0	15552321.0	1.282085	Y



Calibration

/ PCB-23

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

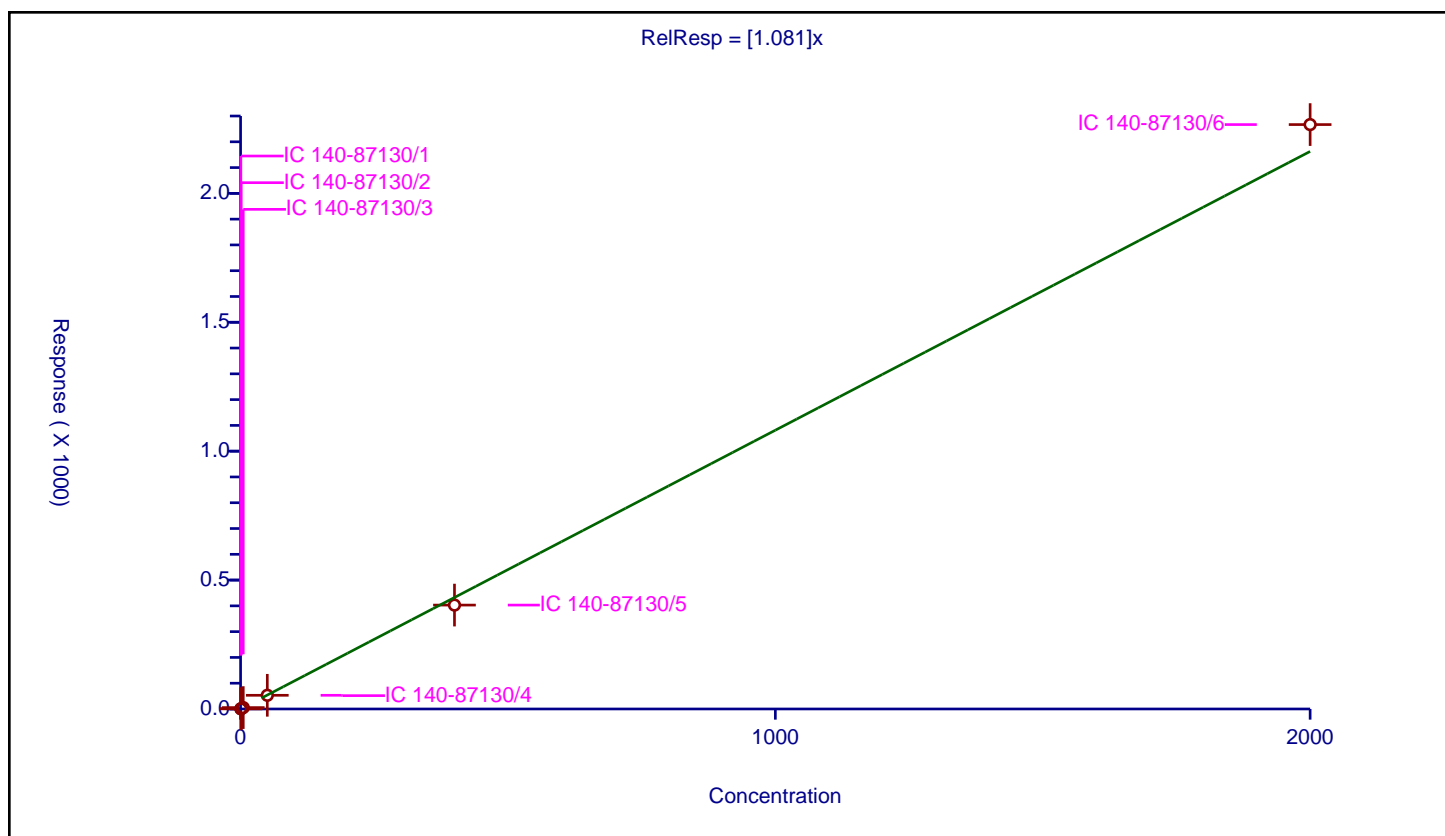
Curve Coefficients

Intercept: 0
Slope: 1.081

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.542298	100.0	14507892.0	1.084596	Y
2	IC 140-87130/2	1.0	1.117639	100.0	13255798.0	1.117639	Y
3	IC 140-87130/3	5.0	5.413869	100.0	13114910.0	1.082774	Y
4	IC 140-87130/4	50.0	53.092071	100.0	13535671.0	1.061841	Y
5	IC 140-87130/5	400.0	403.054334	100.0	14730805.0	1.007636	Y
6	IC 140-87130/6	2000.0	2266.78843	100.0	15552321.0	1.133394	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

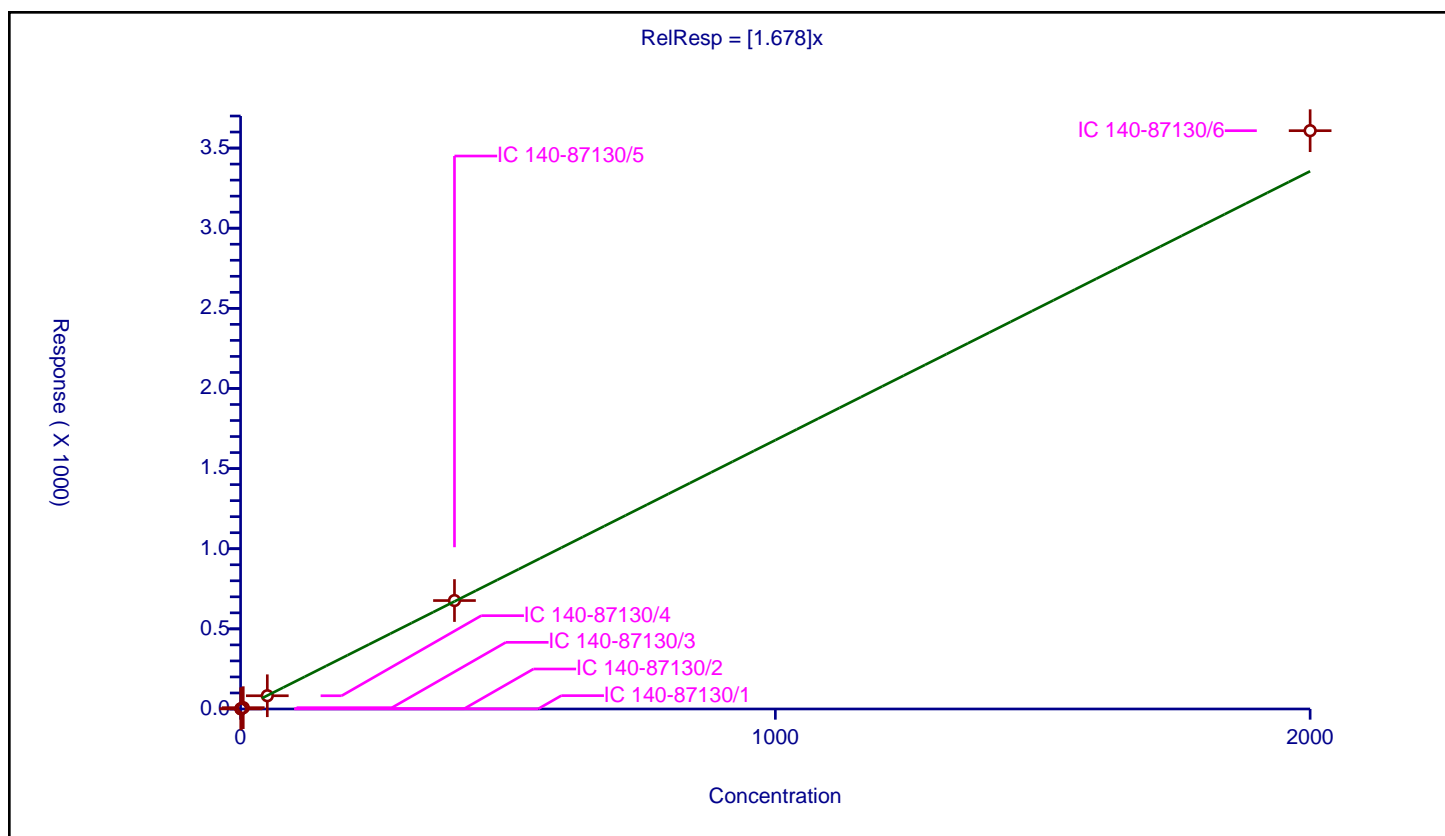
Curve Coefficients

Intercept: 0
Slope: 1.678

Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.832321	100.0	3711790.0	1.664642	Y
2	IC 140-87130/2	1.0	1.622033	100.0	3424036.0	1.622033	Y
3	IC 140-87130/3	5.0	8.156379	100.0	3389482.0	1.631276	Y
4	IC 140-87130/4	50.0	82.607222	100.0	3406868.0	1.652144	Y
5	IC 140-87130/5	400.0	676.659253	100.0	3537933.0	1.691648	Y
6	IC 140-87130/6	2000.0	3608.425176	100.0	3634856.0	1.804213	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

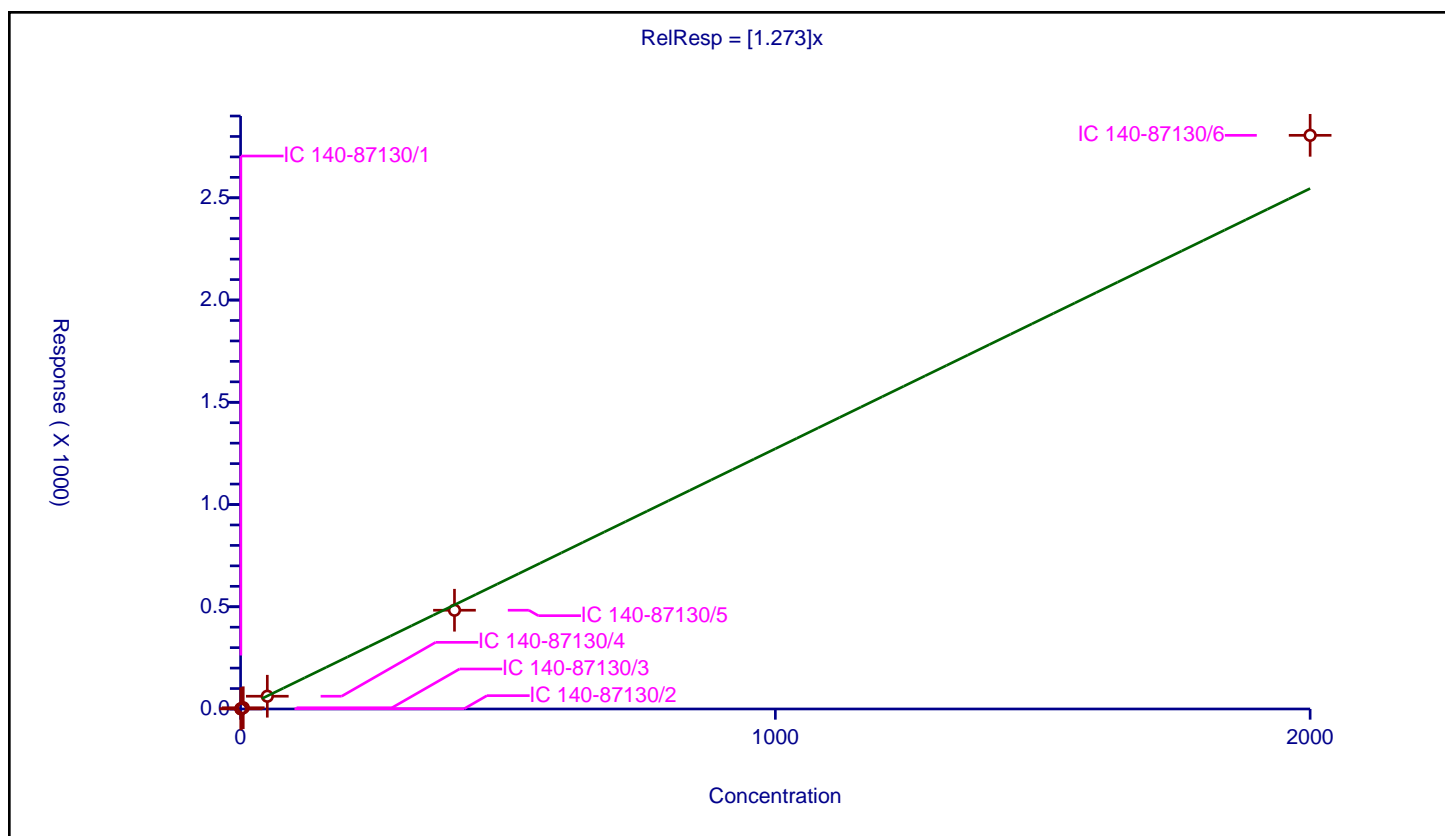
Curve Coefficients

Intercept: 0
Slope: 1.273

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.673964	100.0	14507892.0	1.347928	Y
2	IC 140-87130/2	1.0	1.213575	100.0	13255798.0	1.213575	Y
3	IC 140-87130/3	5.0	6.086302	100.0	13114910.0	1.21726	Y
4	IC 140-87130/4	50.0	62.388159	100.0	13535671.0	1.247763	Y
5	IC 140-87130/5	400.0	482.954306	100.0	14730805.0	1.207386	Y
6	IC 140-87130/6	2000.0	2805.539128	100.0	15552321.0	1.40277	Y



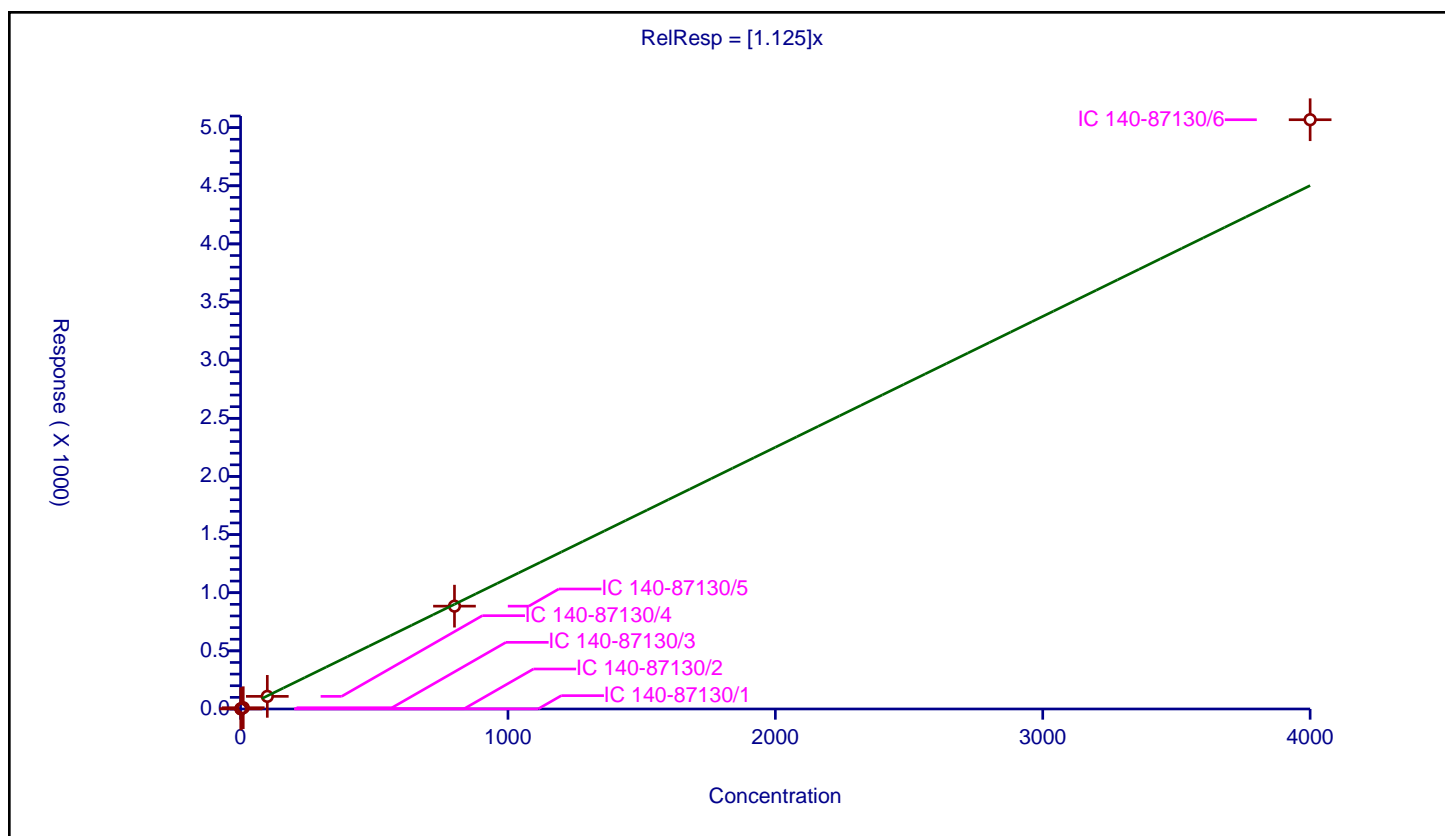
/ PCB-26

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.087491	100.0	14507892.0	1.087491	Y
2	IC 140-87130/2	2.0	2.23807	100.0	13255798.0	1.119035	Y
3	IC 140-87130/3	10.0	10.874516	100.0	13114910.0	1.087452	Y
4	IC 140-87130/4	100.0	108.610892	100.0	13535671.0	1.086109	Y
5	IC 140-87130/5	800.0	884.50471	100.0	14730805.0	1.105631	Y
6	IC 140-87130/6	4000.0	5068.172448	100.0	15552321.0	1.267043	Y



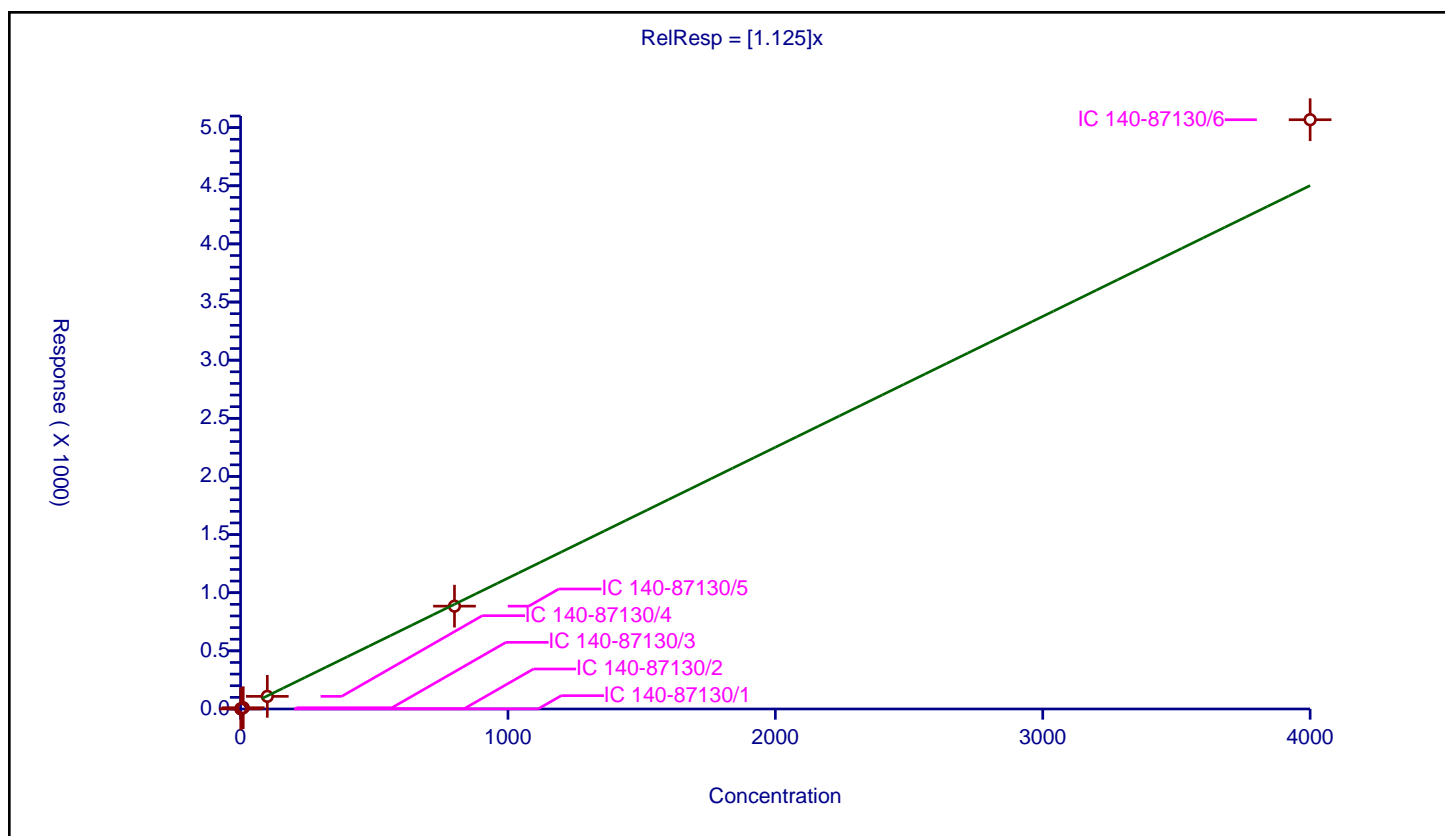
/ PCB-26/29

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.087491	100.0	14507892.0	1.087491	Y
2	IC 140-87130/2	2.0	2.23807	100.0	13255798.0	1.119035	Y
3	IC 140-87130/3	10.0	10.874516	100.0	13114910.0	1.087452	Y
4	IC 140-87130/4	100.0	108.610892	100.0	13535671.0	1.086109	Y
5	IC 140-87130/5	800.0	884.50471	100.0	14730805.0	1.105631	Y
6	IC 140-87130/6	4000.0	5068.172448	100.0	15552321.0	1.267043	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

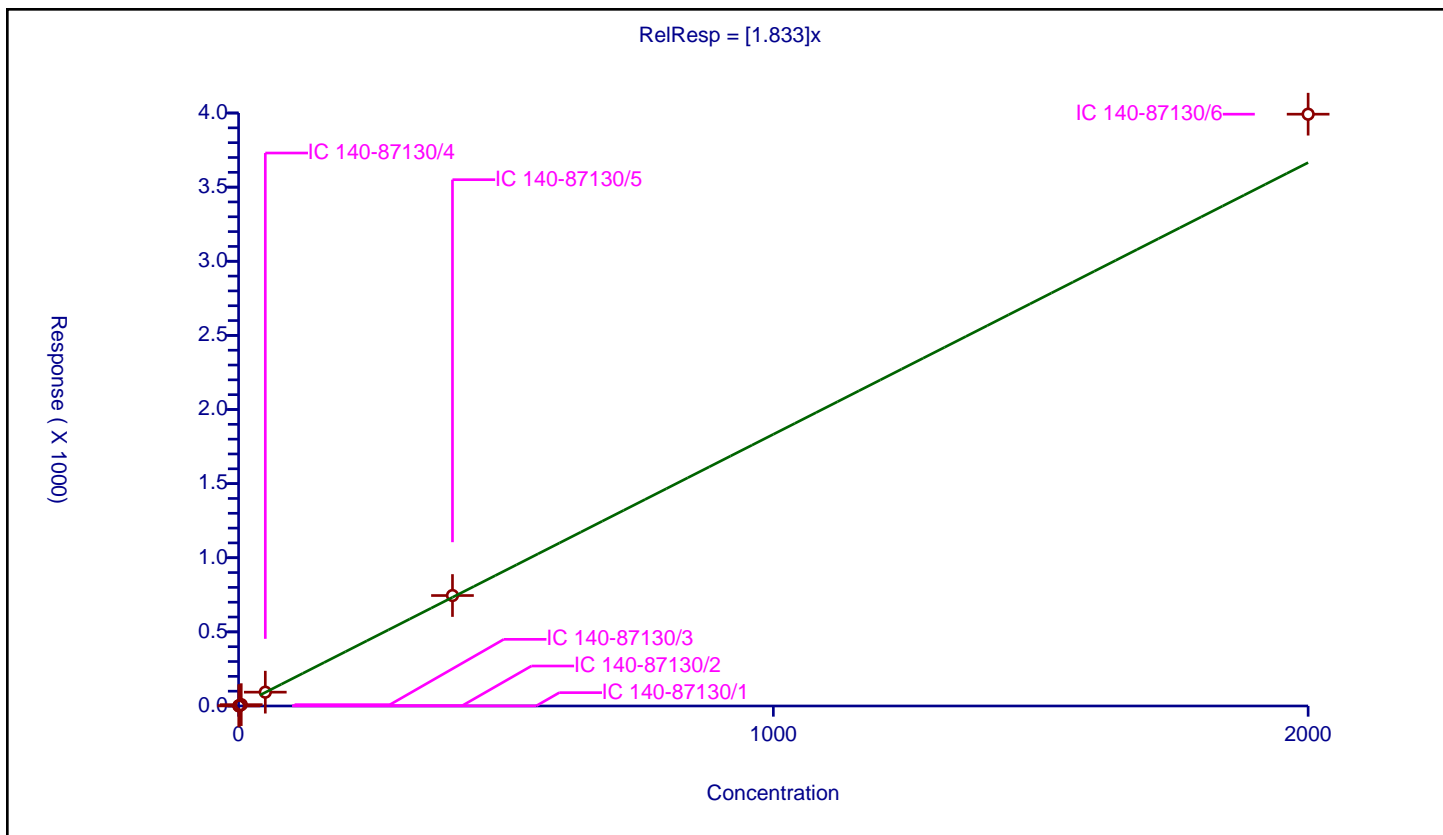
Curve Coefficients

Intercept: 0
Slope: 1.833

Error Coefficients

Relative Standard Deviation: 6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.817234	100.0	3711790.0	1.634467	Y
2	IC 140-87130/2	1.0	1.804099	100.0	3424036.0	1.804099	Y
3	IC 140-87130/3	5.0	9.161901	100.0	3389482.0	1.83238	Y
4	IC 140-87130/4	50.0	93.3283	100.0	3406868.0	1.866566	Y
5	IC 140-87130/5	400.0	745.086524	100.0	3537933.0	1.862716	Y
6	IC 140-87130/6	2000.0	3992.112865	100.0	3634856.0	1.996056	Y



Calibration

/ PCB-28

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

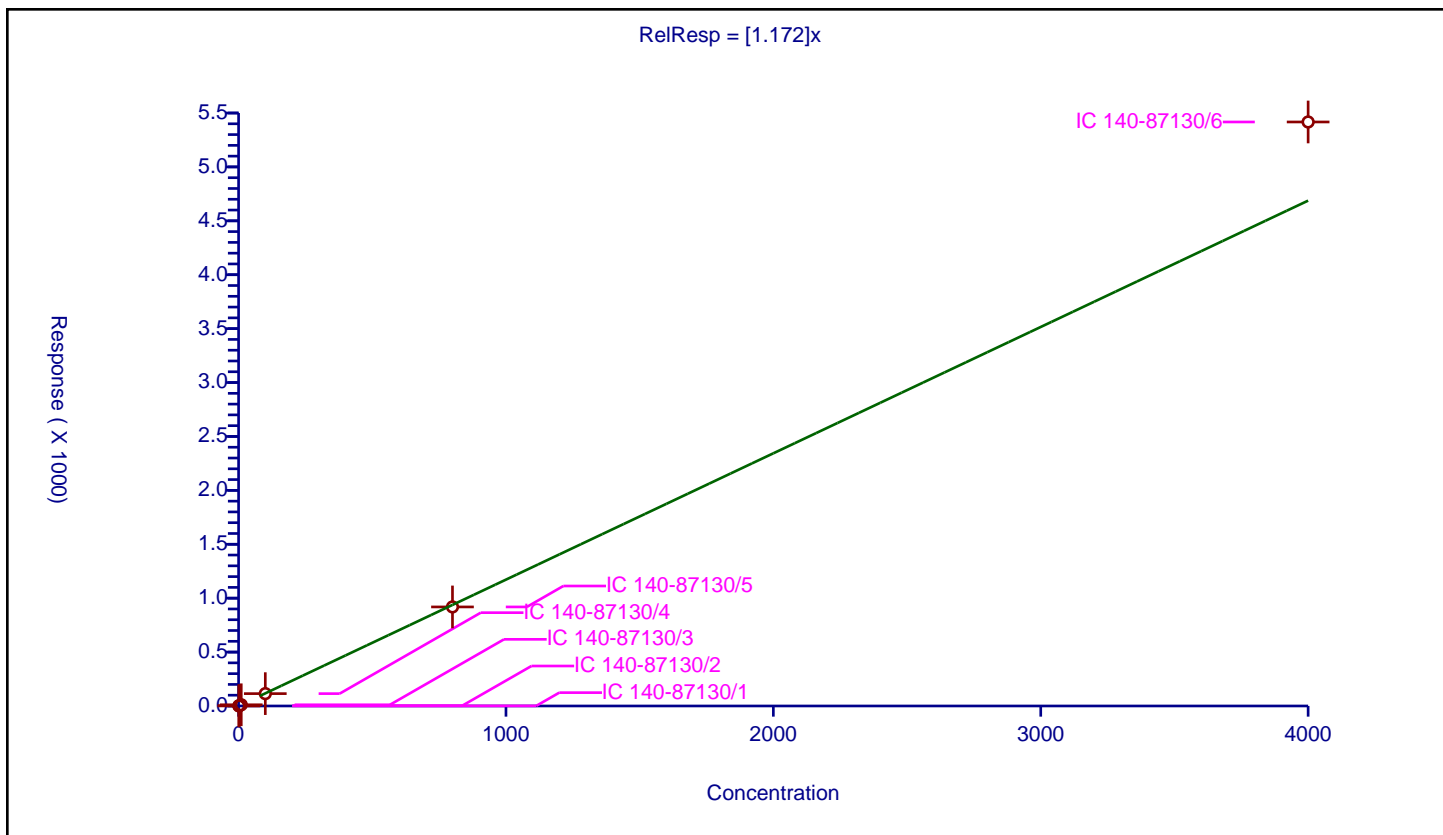
Curve Coefficients

Intercept: 0
 Slope: 1.172

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.125553	100.0	14507892.0	1.125553	Y
2	IC 140-87130/2	2.0	2.250698	100.0	13255798.0	1.125349	Y
3	IC 140-87130/3	10.0	11.314001	100.0	13114910.0	1.1314	Y
4	IC 140-87130/4	100.0	114.571284	100.0	13535671.0	1.145713	Y
5	IC 140-87130/5	800.0	918.868256	100.0	14730805.0	1.148585	Y
6	IC 140-87130/6	4000.0	5416.90331	100.0	15552321.0	1.354226	Y



Calibration

/ PCB-28L

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

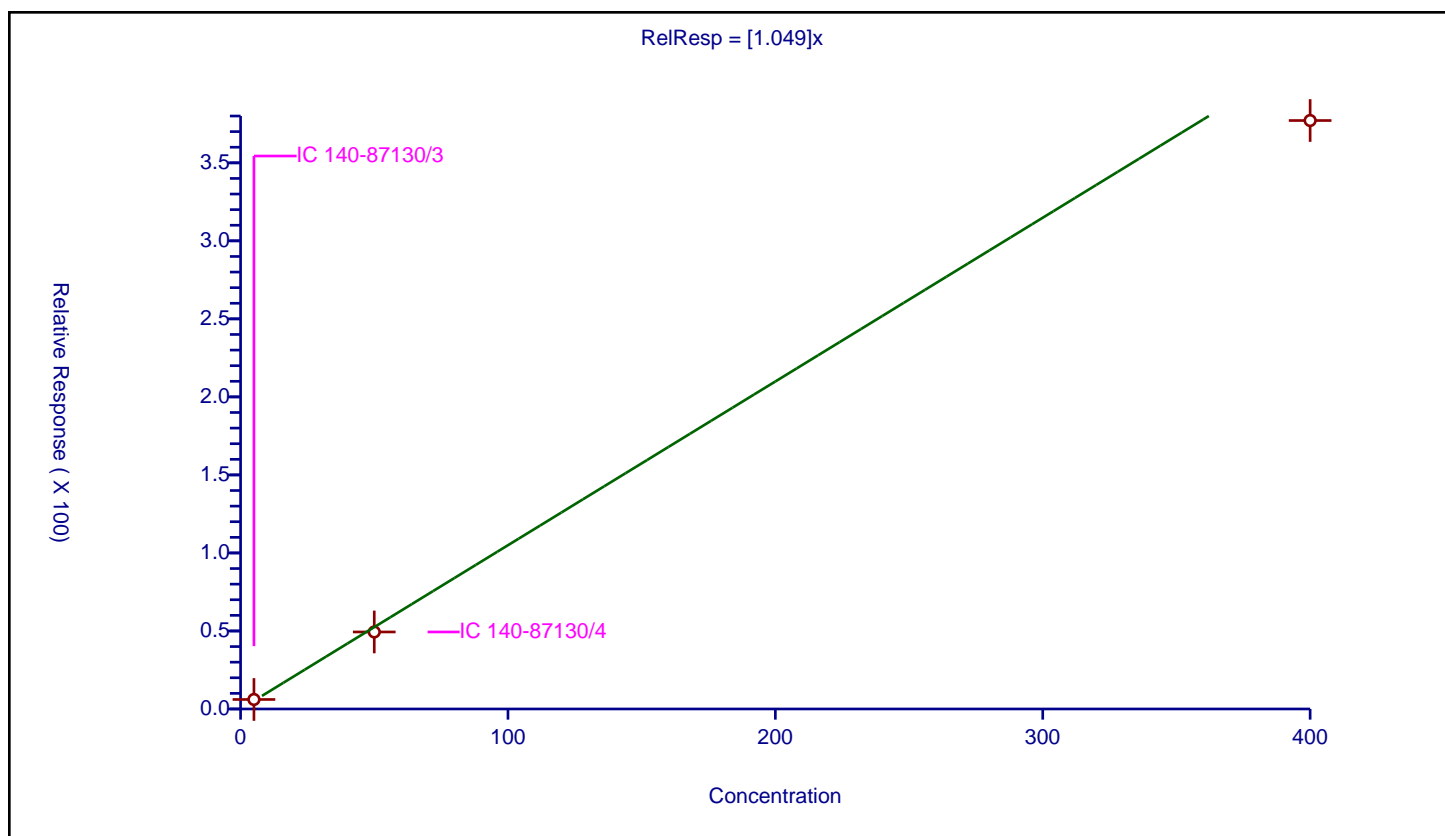
Curve Coefficients

Intercept: 0
 Slope: 1.049

Error Coefficients

Relative Standard Deviation: 14.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	6.0904	100.0	15275204.0	1.21808	Y
2	IC 140-87130/4	50.0	49.365653	100.0	15561763.0	0.987313	Y
3	IC 140-87130/5	400.0	377.114819	100.0	16737748.0	0.942787	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

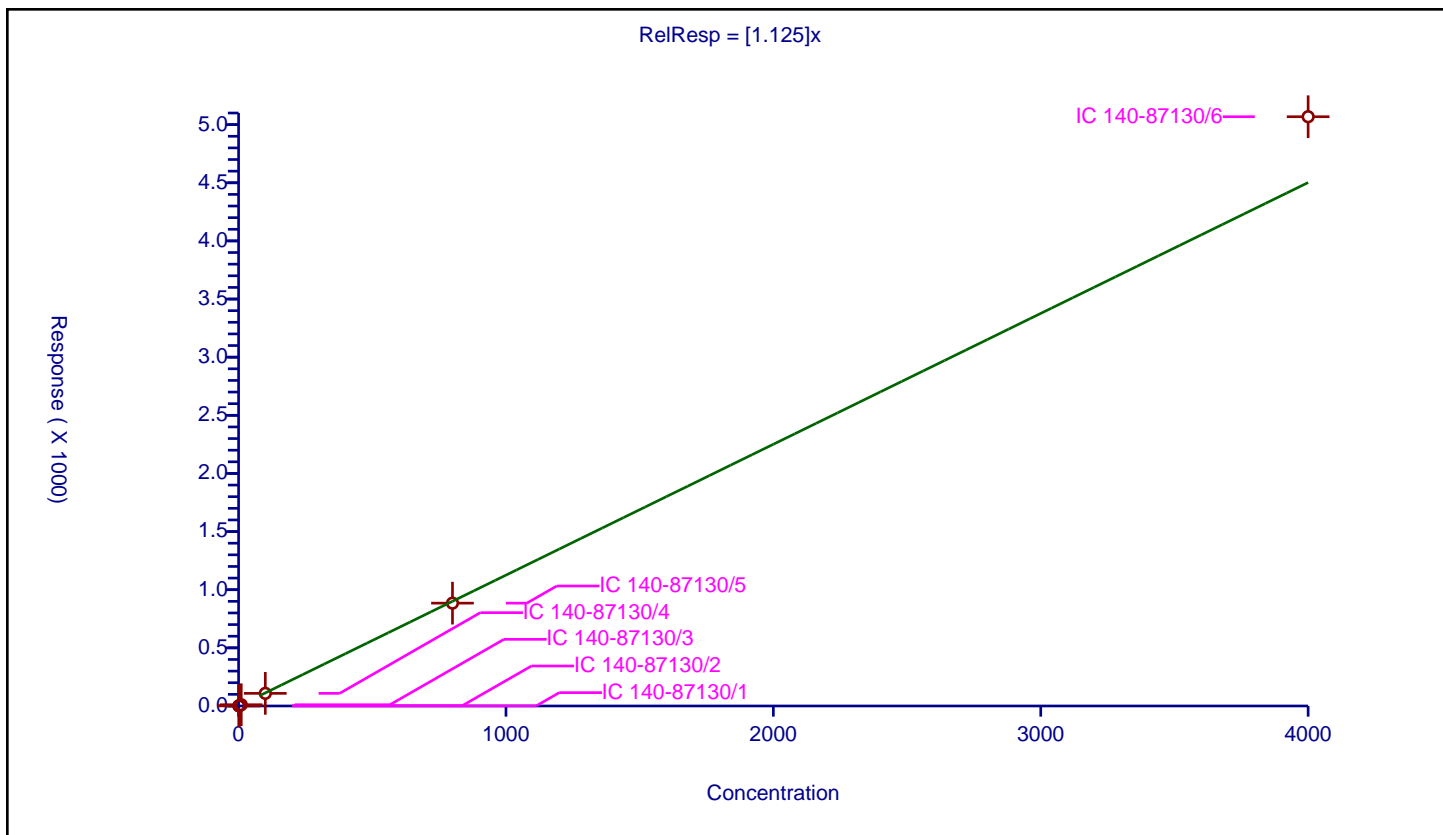
Curve Coefficients

Intercept: 0
Slope: 1.125

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.087491	100.0	14507892.0	1.087491	Y
2	IC 140-87130/2	2.0	2.23807	100.0	13255798.0	1.119035	Y
3	IC 140-87130/3	10.0	10.874516	100.0	13114910.0	1.087452	Y
4	IC 140-87130/4	100.0	108.610892	100.0	13535671.0	1.086109	Y
5	IC 140-87130/5	800.0	884.50471	100.0	14730805.0	1.105631	Y
6	IC 140-87130/6	4000.0	5068.172448	100.0	15552321.0	1.267043	Y



Calibration

/ PCB-3

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

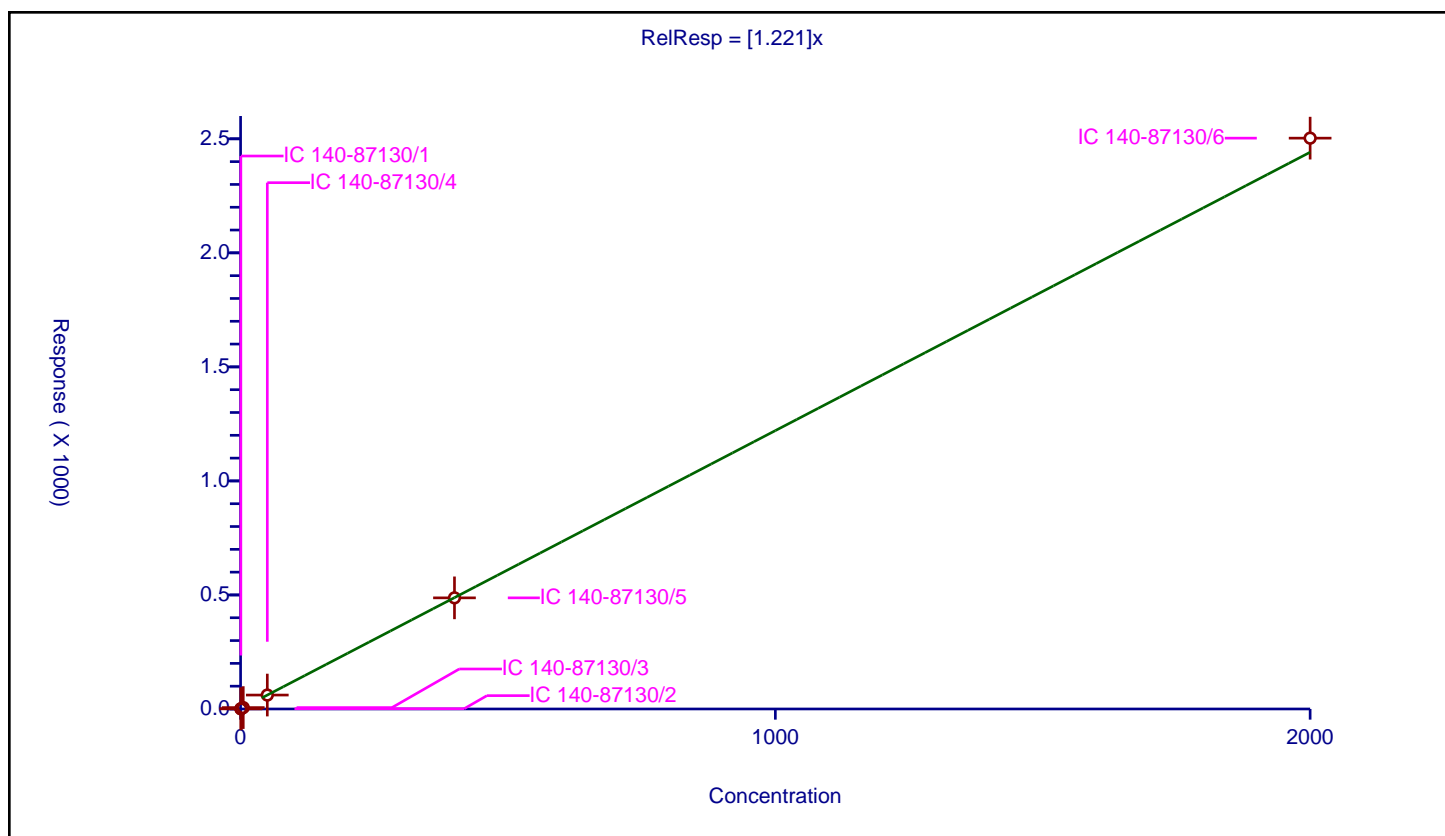
Curve Coefficients

Intercept: 0
Slope: 1.221

Error Coefficients

Relative Standard Deviation: 1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.617382	100.0	14134368.0	1.234763	Y
2	IC 140-87130/2	1.0	1.180658	100.0	13166477.0	1.180658	Y
3	IC 140-87130/3	5.0	6.081014	100.0	13154993.0	1.216203	Y
4	IC 140-87130/4	50.0	61.104113	100.0	13165806.0	1.222082	Y
5	IC 140-87130/5	400.0	487.316703	100.0	13803706.0	1.218292	Y
6	IC 140-87130/6	2000.0	2502.98306	100.0	14397062.0	1.251492	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

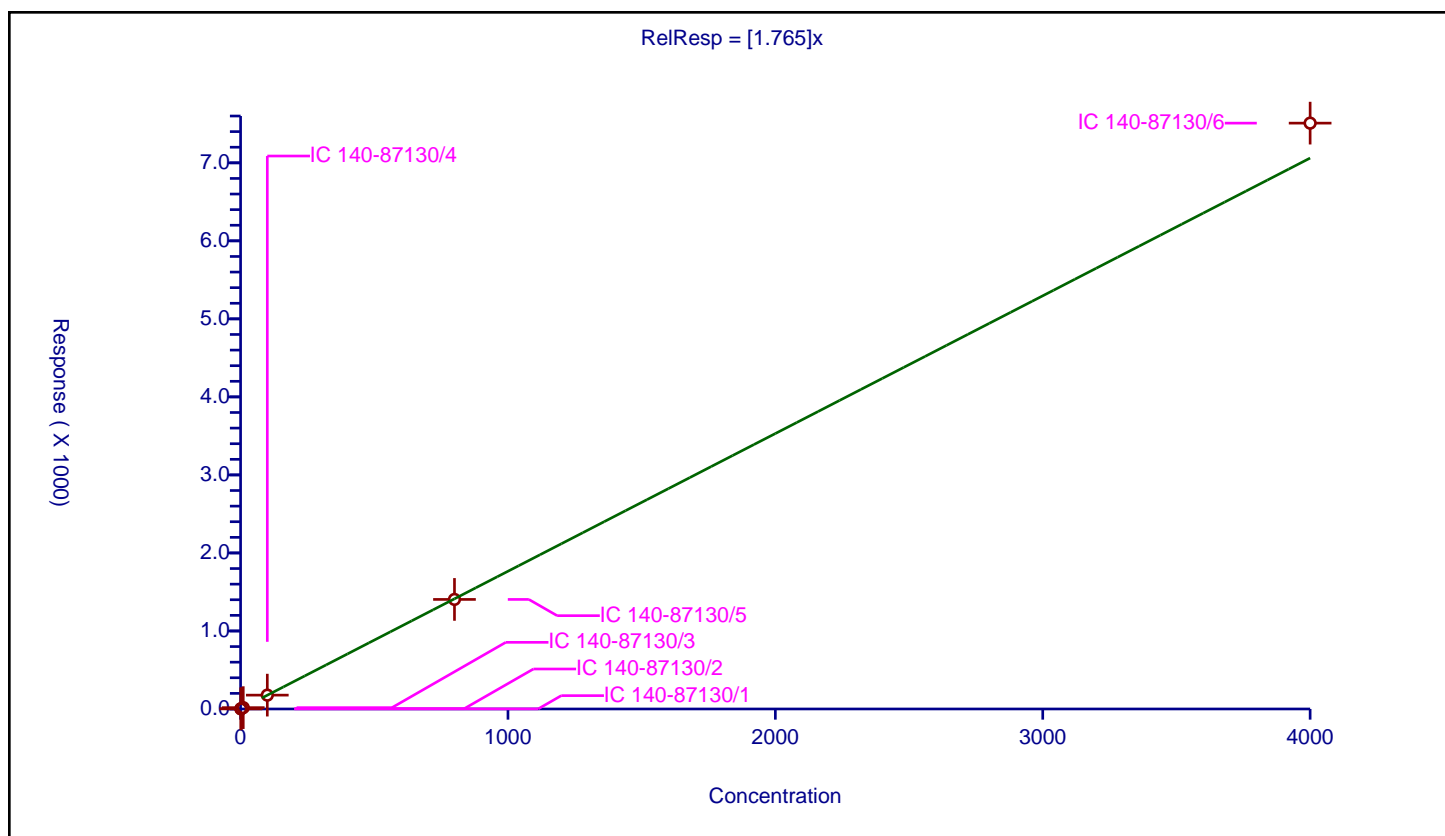
Curve Coefficients

Intercept: 0
Slope: 1.765

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.697941	100.0	3711790.0	1.697941	Y
2	IC 140-87130/2	2.0	3.493684	100.0	3424036.0	1.746842	Y
3	IC 140-87130/3	10.0	17.367846	100.0	3389482.0	1.736785	Y
4	IC 140-87130/4	100.0	177.714869	100.0	3406868.0	1.777149	Y
5	IC 140-87130/5	800.0	1404.321535	100.0	3537933.0	1.755402	Y
6	IC 140-87130/6	4000.0	7508.781366	100.0	3634856.0	1.877195	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

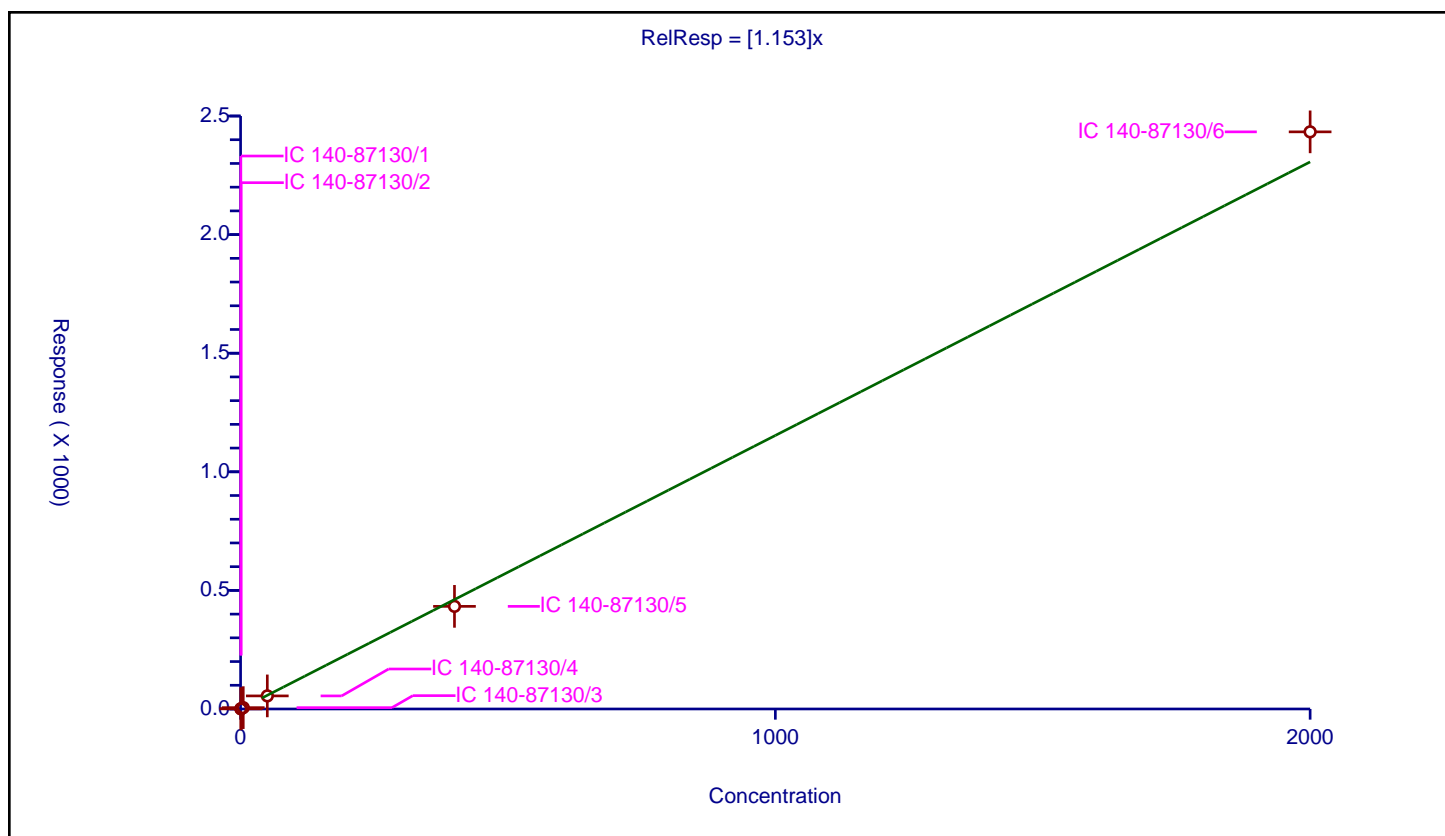
Curve Coefficients

Intercept: 0
Slope: 1.153

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.584882	100.0	14507892.0	1.169763	Y
2	IC 140-87130/2	1.0	1.213363	100.0	13255798.0	1.213363	Y
3	IC 140-87130/3	5.0	5.680359	100.0	13114910.0	1.136072	Y
4	IC 140-87130/4	50.0	55.103799	100.0	13535671.0	1.102076	Y
5	IC 140-87130/5	400.0	432.638725	100.0	14730805.0	1.081597	Y
6	IC 140-87130/6	2000.0	2433.21782	100.0	15552321.0	1.216609	Y



Calibration

/ PCB-32

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

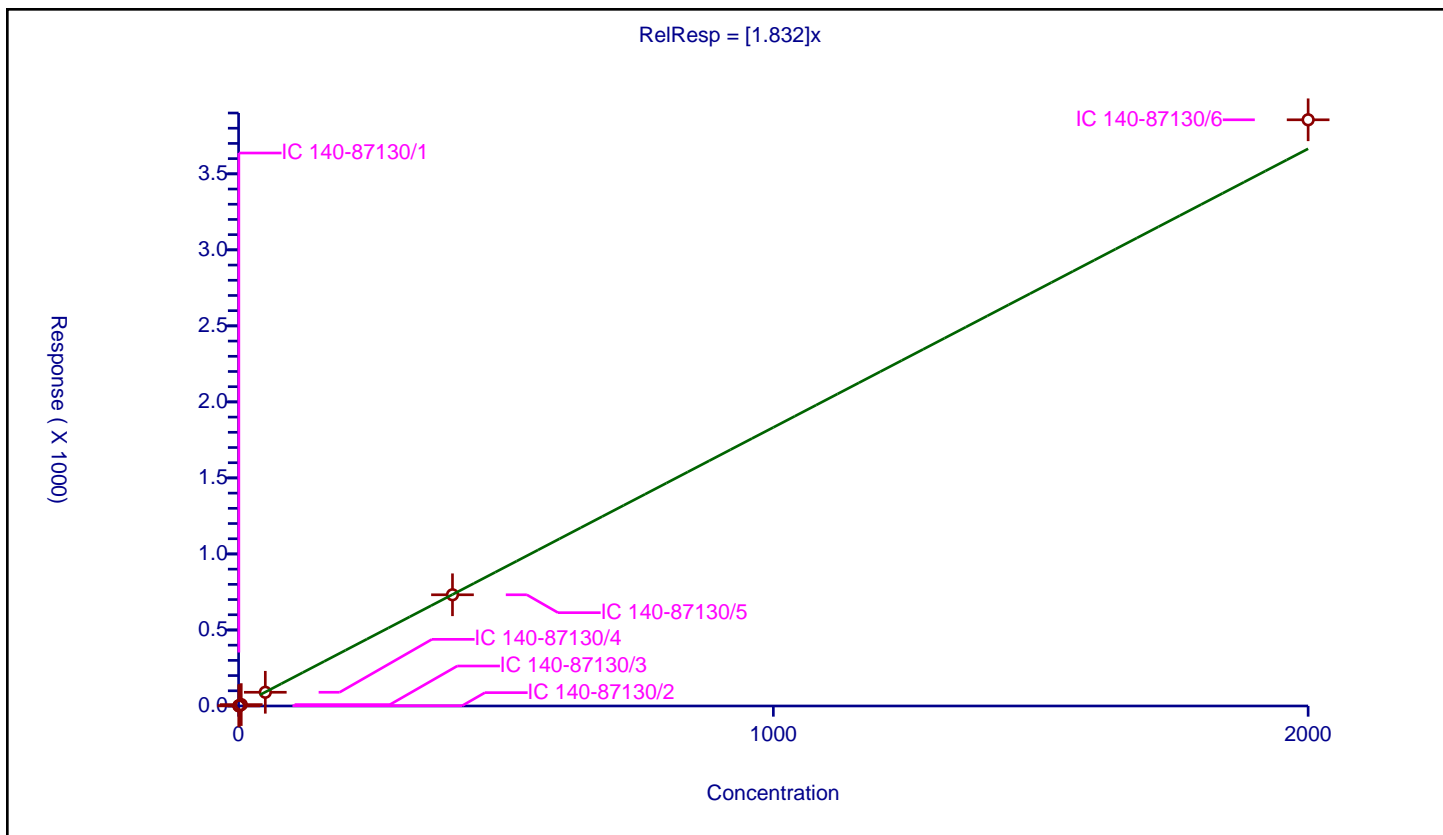
Curve Coefficients

Intercept: 0
 Slope: 1.832

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.921792	100.0	3711790.0	1.843585	Y
2	IC 140-87130/2	1.0	1.758948	100.0	3424036.0	1.758948	Y
3	IC 140-87130/3	5.0	9.147651	100.0	3389482.0	1.82953	Y
4	IC 140-87130/4	50.0	90.314858	100.0	3406868.0	1.806297	Y
5	IC 140-87130/5	400.0	731.427955	100.0	3537933.0	1.82857	Y
6	IC 140-87130/6	2000.0	3855.398646	100.0	3634856.0	1.927699	Y



Calibration

/ PCB-33

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

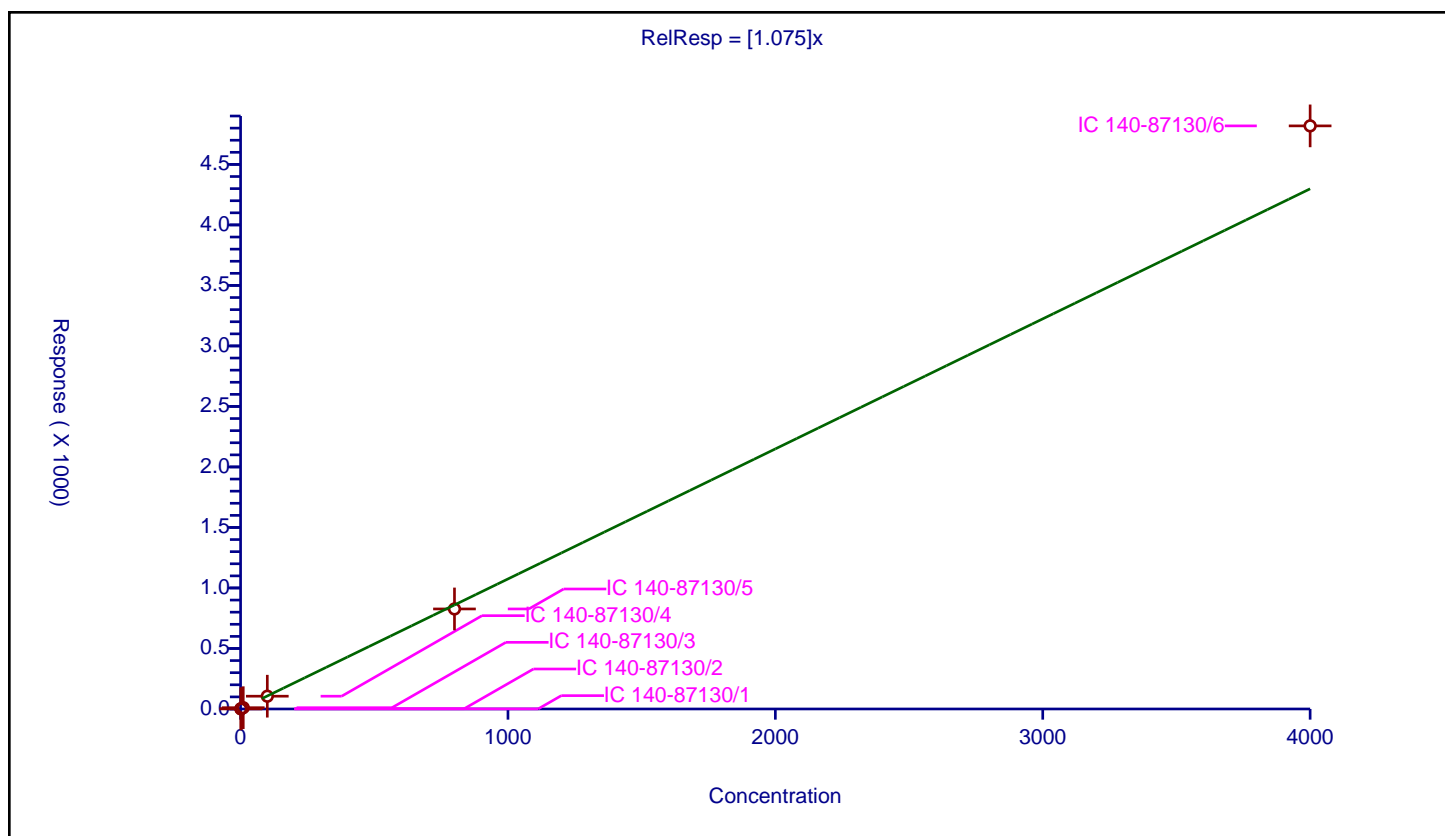
Curve Coefficients

Intercept: 0
Slope: 1.075

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.018136	100.0	14507892.0	1.018136	Y
2	IC 140-87130/2	2.0	2.127311	100.0	13255798.0	1.063655	Y
3	IC 140-87130/3	10.0	10.703085	100.0	13114910.0	1.070309	Y
4	IC 140-87130/4	100.0	105.751285	100.0	13535671.0	1.057513	Y
5	IC 140-87130/5	800.0	826.614581	100.0	14730805.0	1.033268	Y
6	IC 140-87130/6	4000.0	4818.507366	100.0	15552321.0	1.204627	Y



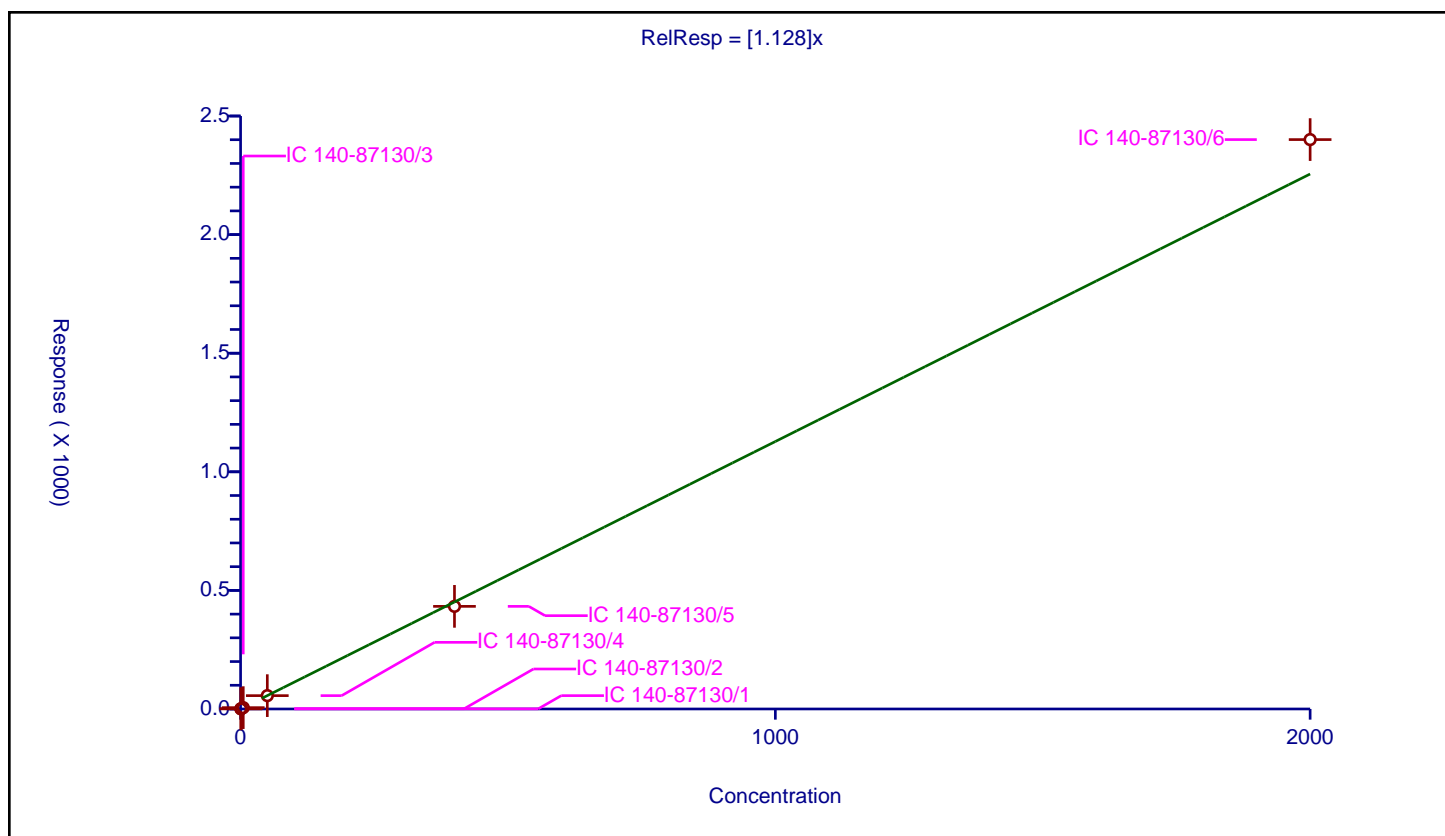
/ PCB-34

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.563776	100.0	14507892.0	1.127552	Y
2	IC 140-87130/2	1.0	1.100062	100.0	13255798.0	1.100062	Y
3	IC 140-87130/3	5.0	5.657286	100.0	13114910.0	1.131457	Y
4	IC 140-87130/4	50.0	56.272681	100.0	13535671.0	1.125454	Y
5	IC 140-87130/5	400.0	432.655065	100.0	14730805.0	1.081638	Y
6	IC 140-87130/6	2000.0	2400.579778	100.0	15552321.0	1.20029	Y



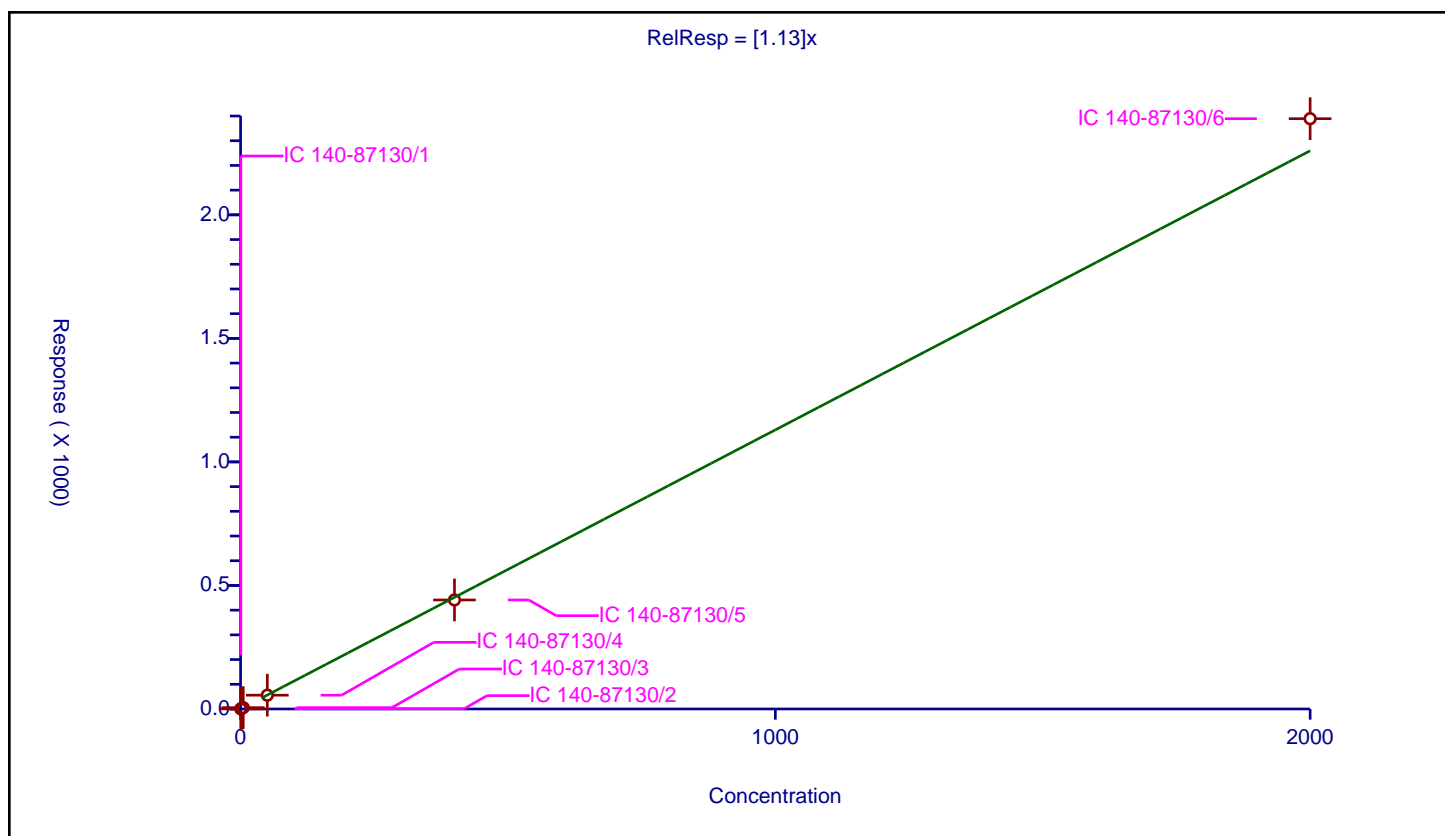
/ PCB-35

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.593215	100.0	14507892.0	1.18643	Y
2	IC 140-87130/2	1.0	1.076827	100.0	13255798.0	1.076827	Y
3	IC 140-87130/3	5.0	5.498276	100.0	13114910.0	1.099655	Y
4	IC 140-87130/4	50.0	55.869347	100.0	13535671.0	1.117387	Y
5	IC 140-87130/5	400.0	441.28255	100.0	14730805.0	1.103206	Y
6	IC 140-87130/6	2000.0	2389.202557	100.0	15552321.0	1.194601	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

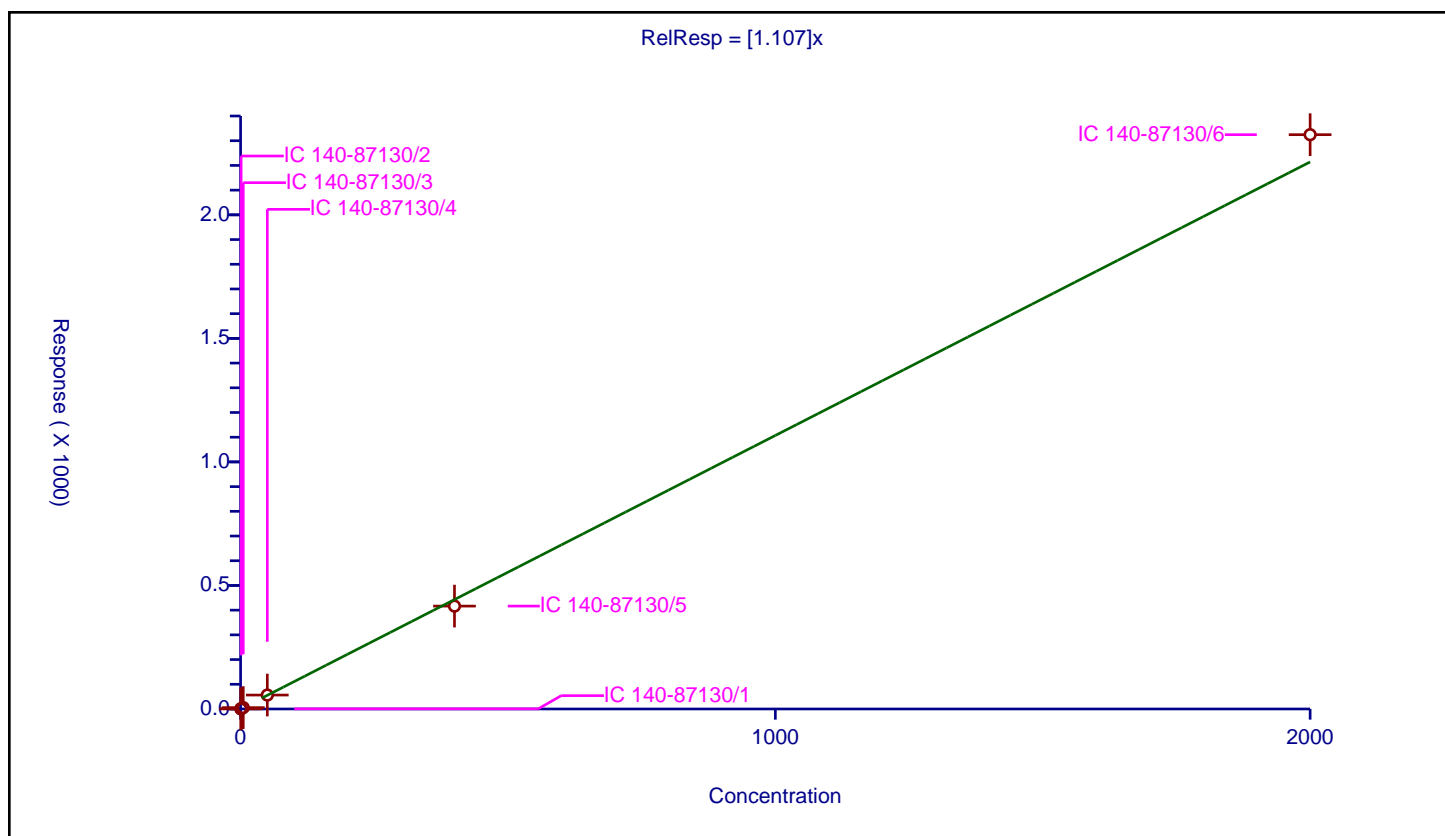
Curve Coefficients

Intercept: 0
Slope: 1.107

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.529546	100.0	14507892.0	1.059093	Y
2	IC 140-87130/2	1.0	1.136786	100.0	13255798.0	1.136786	Y
3	IC 140-87130/3	5.0	5.57727	100.0	13114910.0	1.115454	Y
4	IC 140-87130/4	50.0	56.385915	100.0	13535671.0	1.127718	Y
5	IC 140-87130/5	400.0	416.423699	100.0	14730805.0	1.041059	Y
6	IC 140-87130/6	2000.0	2324.412298	100.0	15552321.0	1.162206	Y



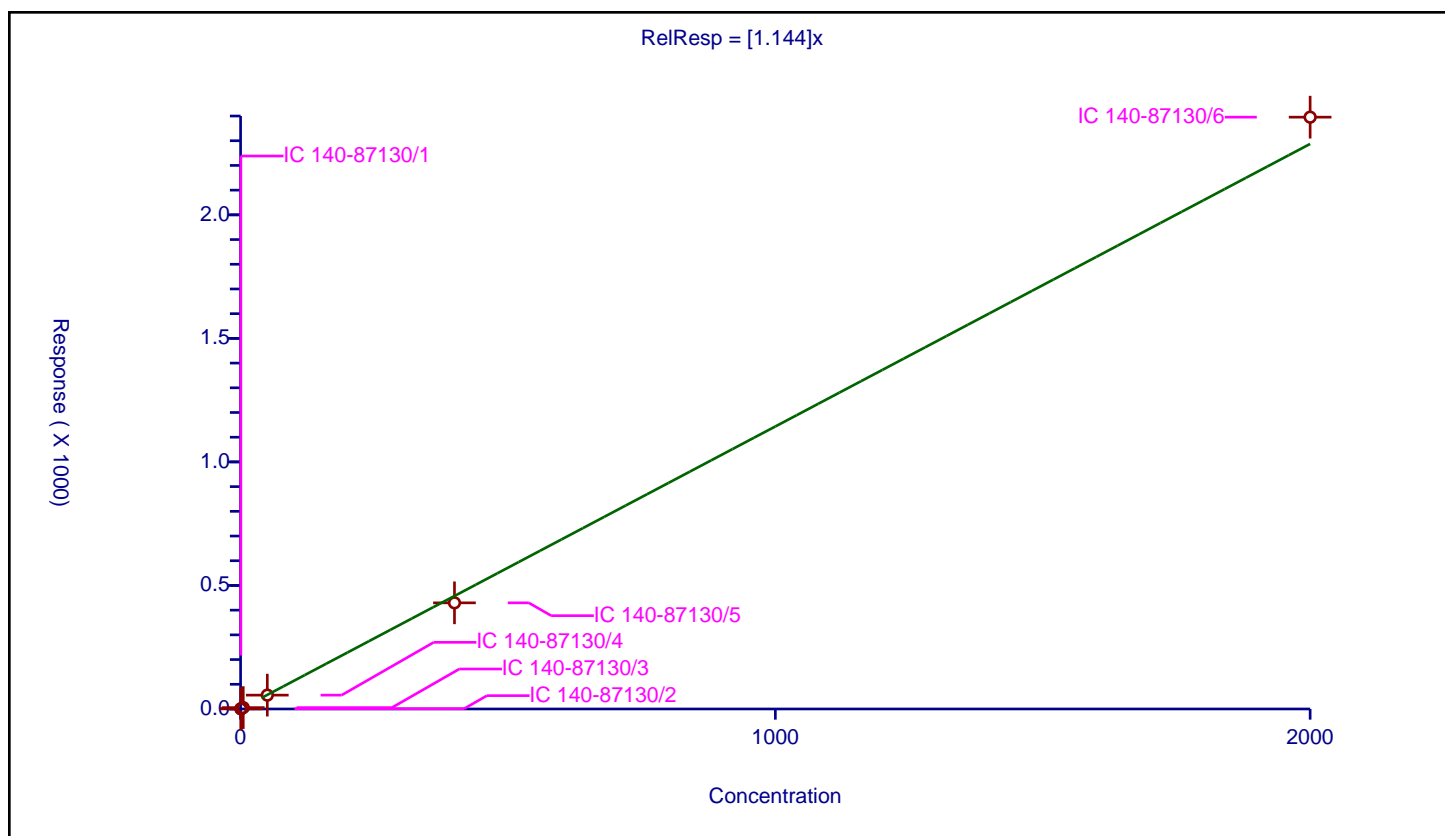
/ PCB-37

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.622316	100.0	14507892.0	1.244633	Y
2	IC 140-87130/2	1.0	1.120151	100.0	13255798.0	1.120151	Y
3	IC 140-87130/3	5.0	5.516561	100.0	13114910.0	1.103312	Y
4	IC 140-87130/4	50.0	56.069758	100.0	13535671.0	1.121395	Y
5	IC 140-87130/5	400.0	429.577739	100.0	14730805.0	1.073944	Y
6	IC 140-87130/6	2000.0	2395.326453	100.0	15552321.0	1.197663	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

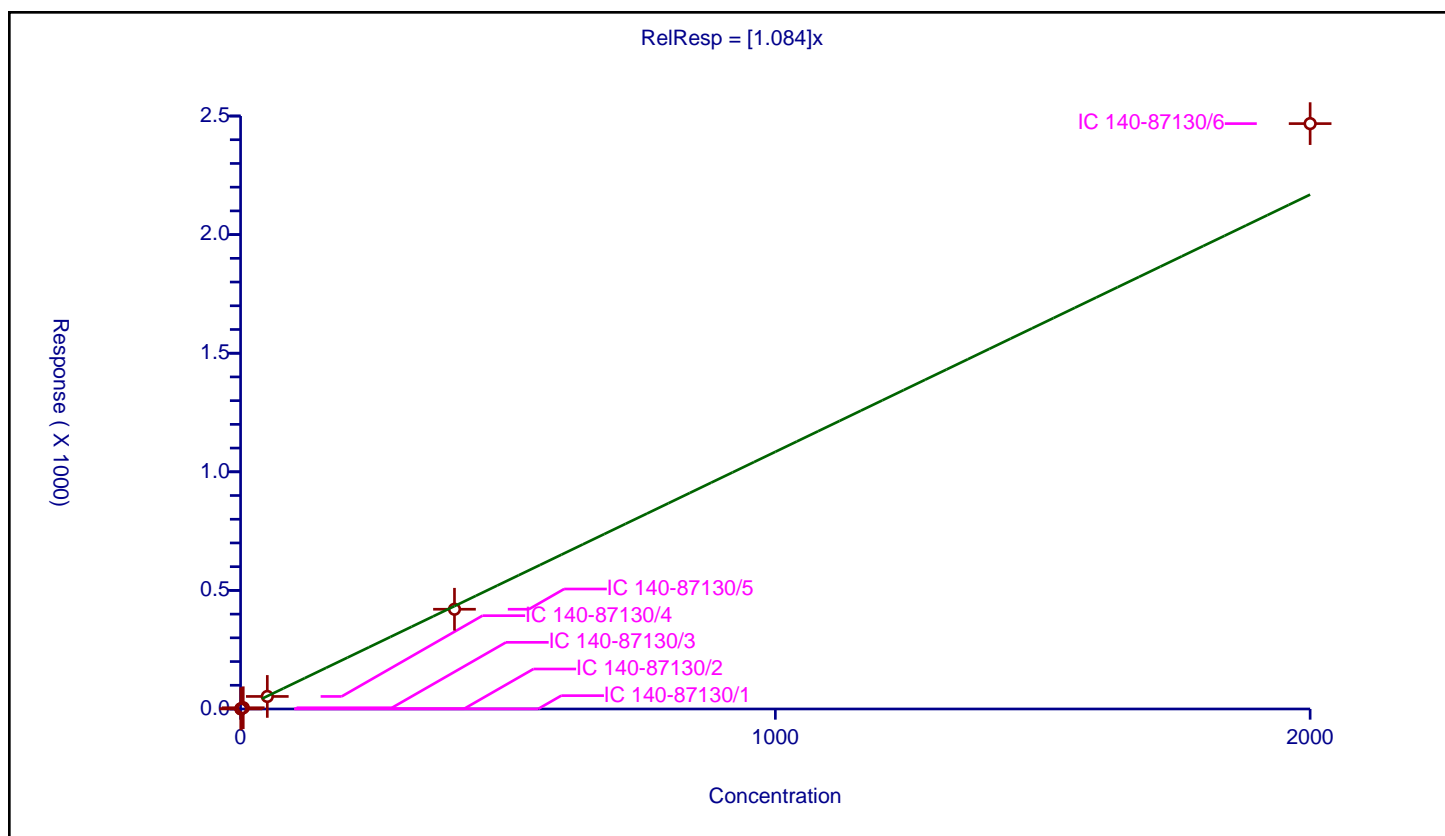
Curve Coefficients

Intercept: 0
Slope: 1.084

Error Coefficients

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.525011	100.0	14507892.0	1.050022	Y
2	IC 140-87130/2	1.0	1.076125	100.0	13255798.0	1.076125	Y
3	IC 140-87130/3	5.0	5.187546	100.0	13114910.0	1.037509	Y
4	IC 140-87130/4	50.0	52.845707	100.0	13535671.0	1.056914	Y
5	IC 140-87130/5	400.0	420.536977	100.0	14730805.0	1.051342	Y
6	IC 140-87130/6	2000.0	2467.944026	100.0	15552321.0	1.233972	Y



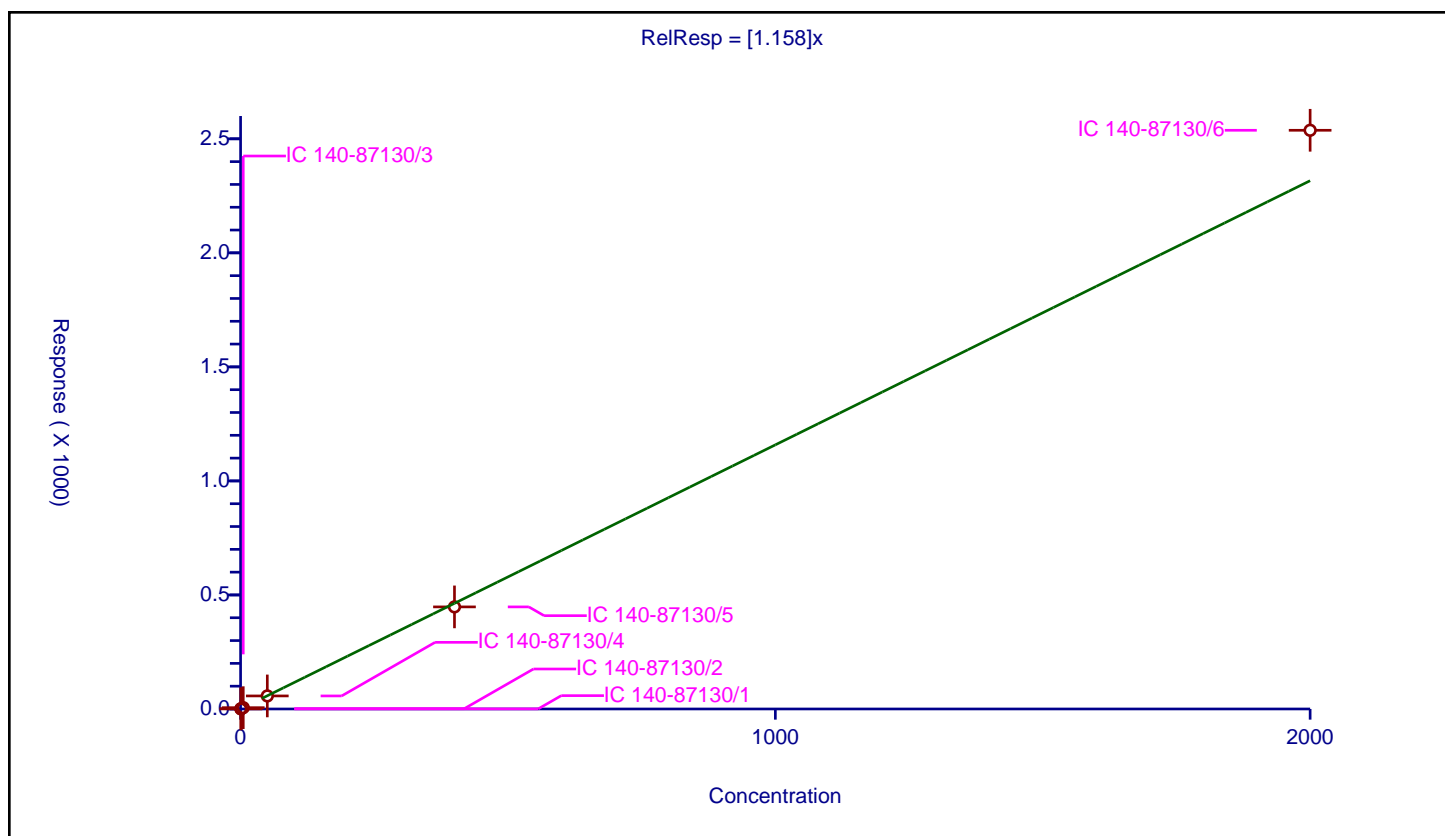
/ PCB-39

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.559309	100.0	14507892.0	1.118619	Y
2	IC 140-87130/2	1.0	1.137834	100.0	13255798.0	1.137834	Y
3	IC 140-87130/3	5.0	5.796189	100.0	13114910.0	1.159238	Y
4	IC 140-87130/4	50.0	57.27255	100.0	13535671.0	1.145451	Y
5	IC 140-87130/5	400.0	447.593434	100.0	14730805.0	1.118984	Y
6	IC 140-87130/6	2000.0	2537.463514	100.0	15552321.0	1.268732	Y



Calibration

/ PCB-4

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

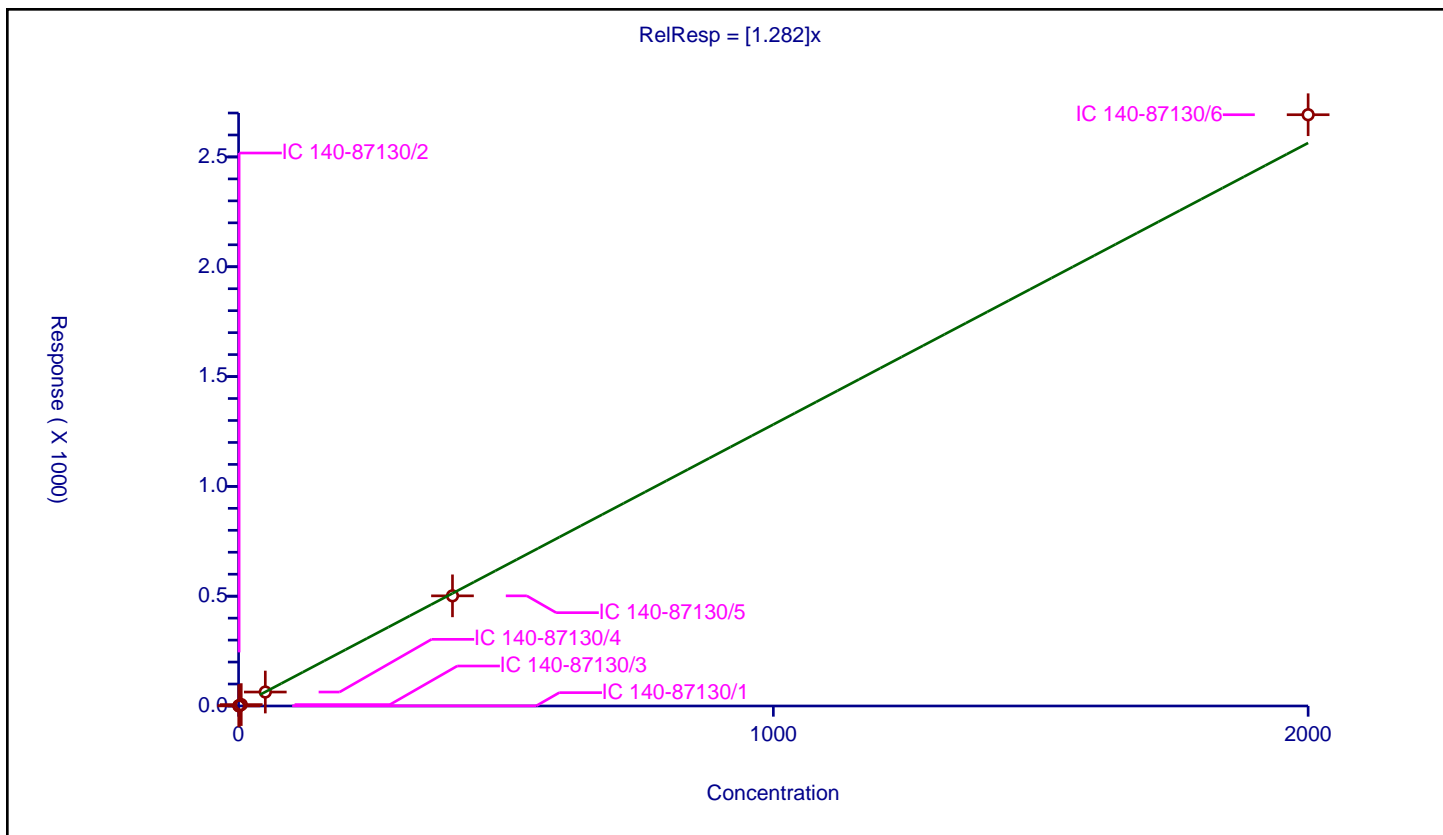
Curve Coefficients

Intercept: 0
Slope: 1.282

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.616036	100.0	5904521.0	1.232073	Y
2	IC 140-87130/2	1.0	1.309647	100.0	5442766.0	1.309647	Y
3	IC 140-87130/3	5.0	6.390433	100.0	5279032.0	1.278087	Y
4	IC 140-87130/4	50.0	63.568468	100.0	5474214.0	1.271369	Y
5	IC 140-87130/5	400.0	501.47876	100.0	5561618.0	1.253697	Y
6	IC 140-87130/6	2000.0	2692.23998	100.0	5672202.0	1.34612	Y



Calibration

/ PCB-40

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

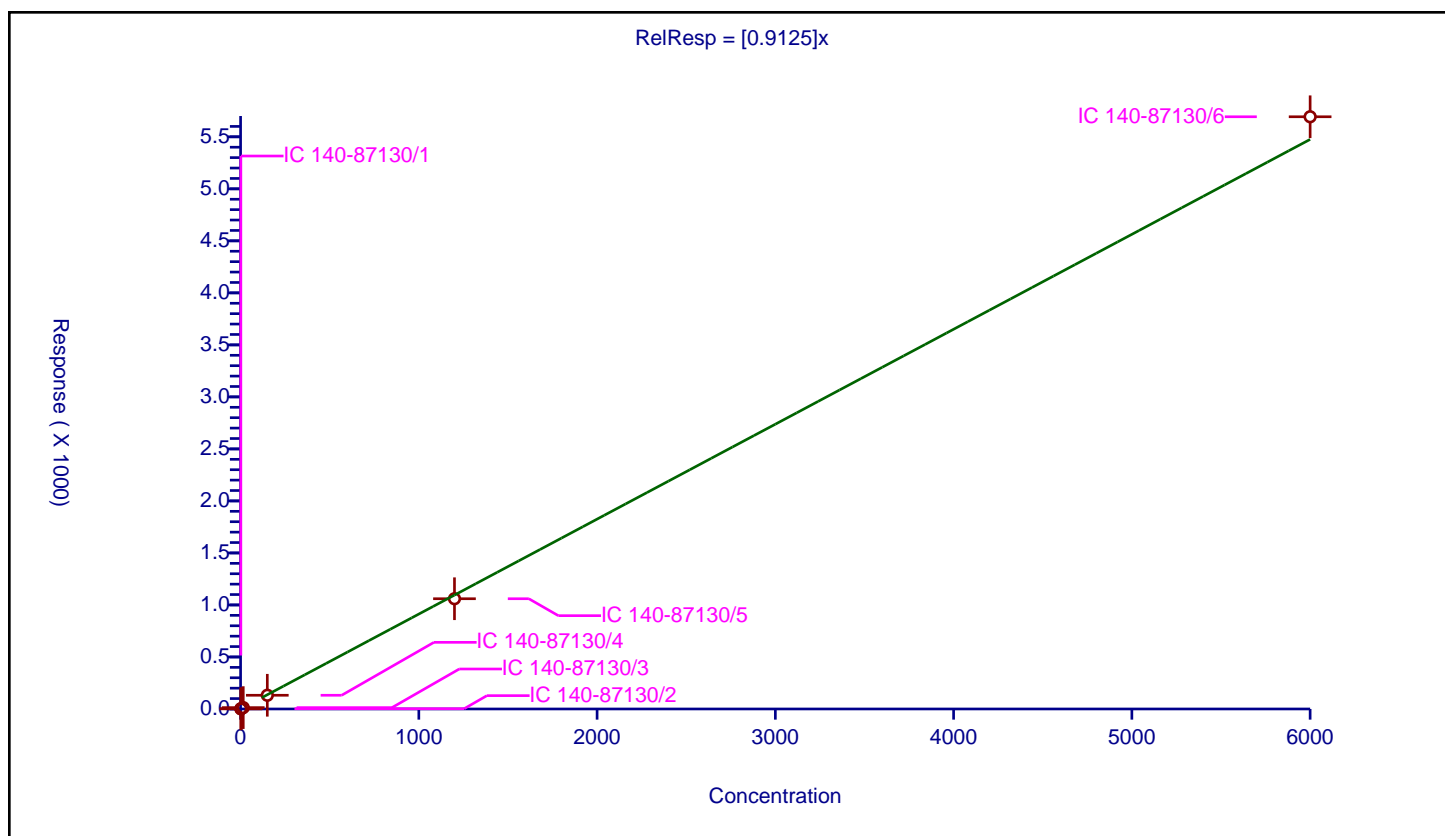
Curve Coefficients

Intercept: 0
Slope: 0.9125

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.47845	100.0	10352263.0	0.985633	Y
2	IC 140-87130/2	3.0	2.69336	100.0	9378026.0	0.897787	Y
3	IC 140-87130/3	15.0	13.208581	100.0	9411321.0	0.880572	Y
4	IC 140-87130/4	150.0	131.86716	100.0	9689577.0	0.879114	Y
5	IC 140-87130/5	1200.0	1059.882622	100.0	10335461.0	0.883236	Y
6	IC 140-87130/6	6000.0	5692.828269	100.0	11264701.0	0.948805	Y



Calibration

/ PCB-40/41/71

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

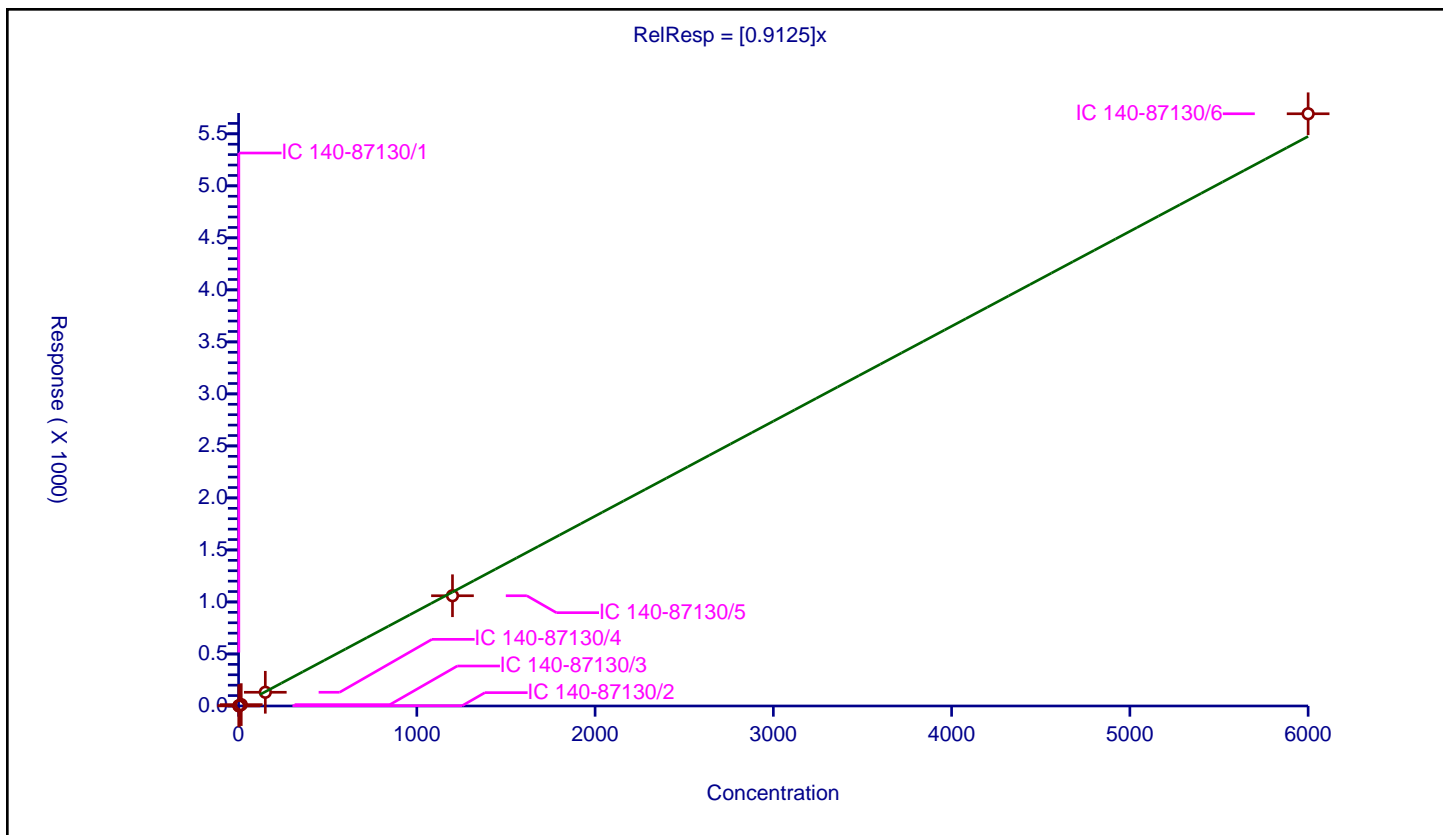
Curve Coefficients

Intercept: 0
Slope: 0.9125

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.47845	100.0	10352263.0	0.985633	Y
2	IC 140-87130/2	3.0	2.69336	100.0	9378026.0	0.897787	Y
3	IC 140-87130/3	15.0	13.208581	100.0	9411321.0	0.880572	Y
4	IC 140-87130/4	150.0	131.86716	100.0	9689577.0	0.879114	Y
5	IC 140-87130/5	1200.0	1059.882622	100.0	10335461.0	0.883236	Y
6	IC 140-87130/6	6000.0	5692.828269	100.0	11264701.0	0.948805	Y



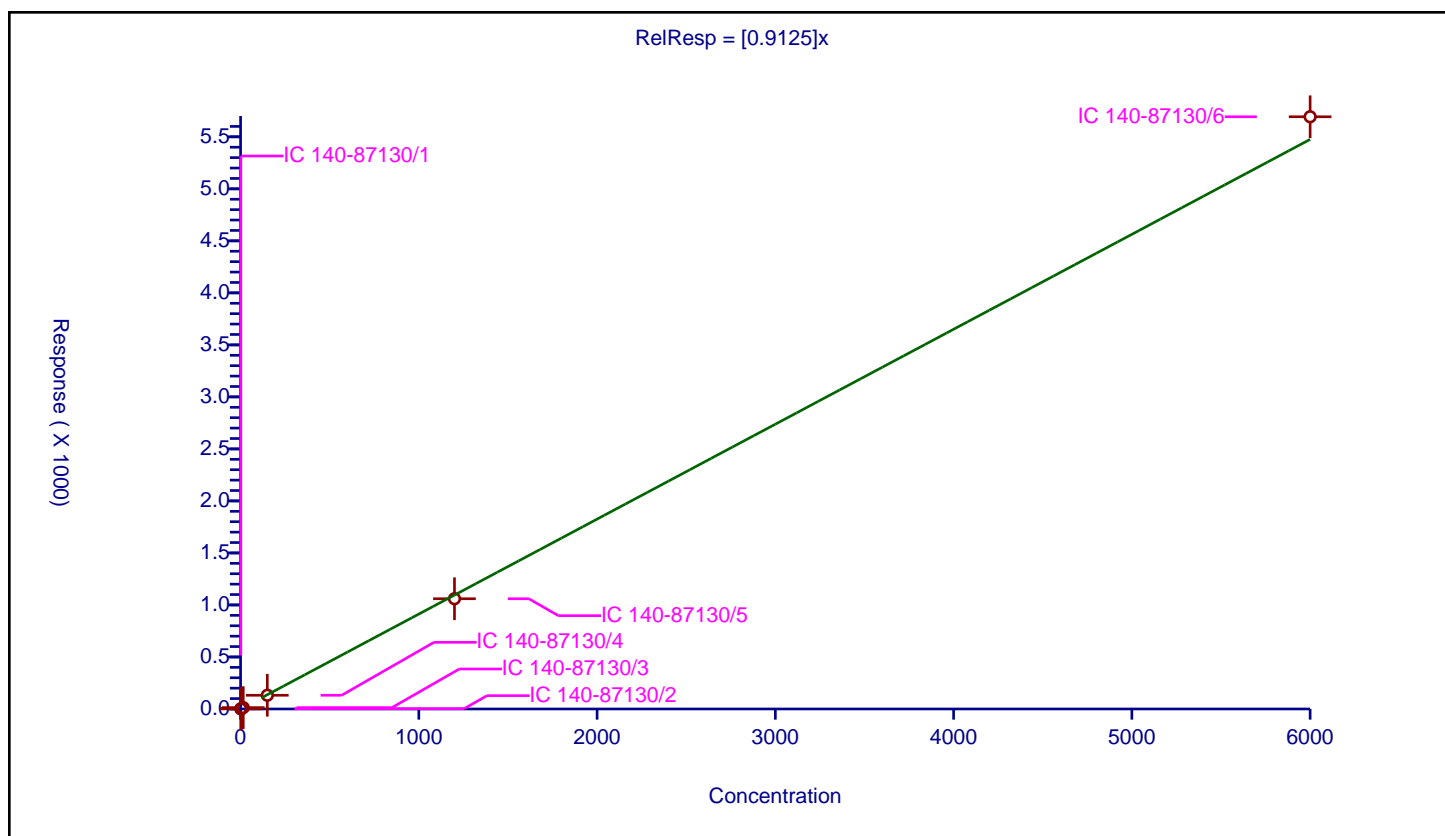
/ PCB-41

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.47845	100.0	10352263.0	0.985633	Y
2	IC 140-87130/2	3.0	2.69336	100.0	9378026.0	0.897787	Y
3	IC 140-87130/3	15.0	13.208581	100.0	9411321.0	0.880572	Y
4	IC 140-87130/4	150.0	131.86716	100.0	9689577.0	0.879114	Y
5	IC 140-87130/5	1200.0	1059.882622	100.0	10335461.0	0.883236	Y
6	IC 140-87130/6	6000.0	5692.828269	100.0	11264701.0	0.948805	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

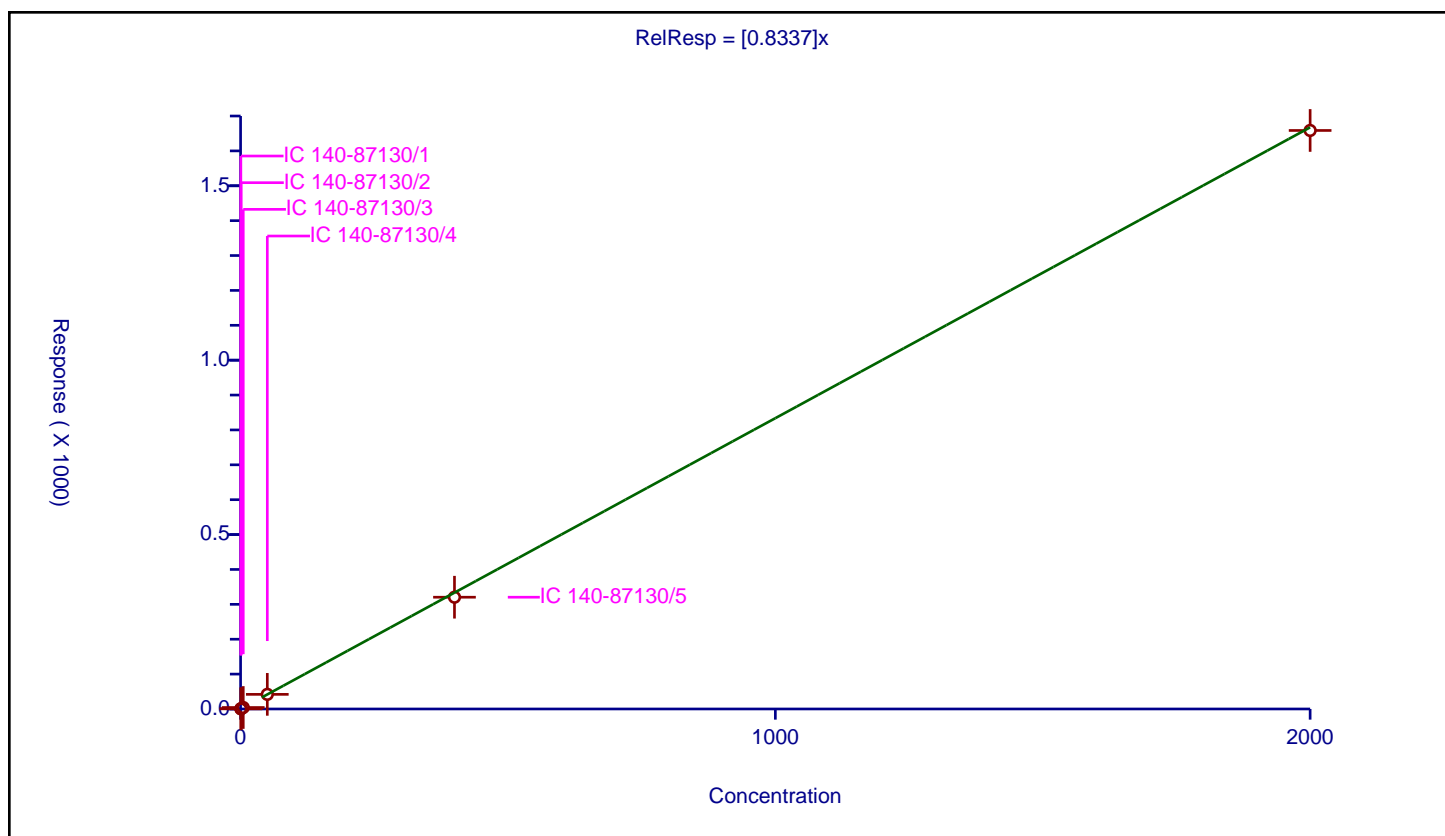
Curve Coefficients

Intercept: 0
Slope: 0.8337

Error Coefficients

Relative Standard Deviation: 2.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.41986	100.0	10352263.0	0.83972	Y
2	IC 140-87130/2	1.0	0.846767	100.0	9378026.0	0.846767	Y
3	IC 140-87130/3	5.0	4.235898	100.0	9411321.0	0.84718	Y
4	IC 140-87130/4	50.0	41.924978	100.0	9689577.0	0.8385	Y
5	IC 140-87130/5	400.0	320.413661	100.0	10335461.0	0.801034	Y
6	IC 140-87130/6	2000.0	1658.557826	100.0	11264701.0	0.829279	Y



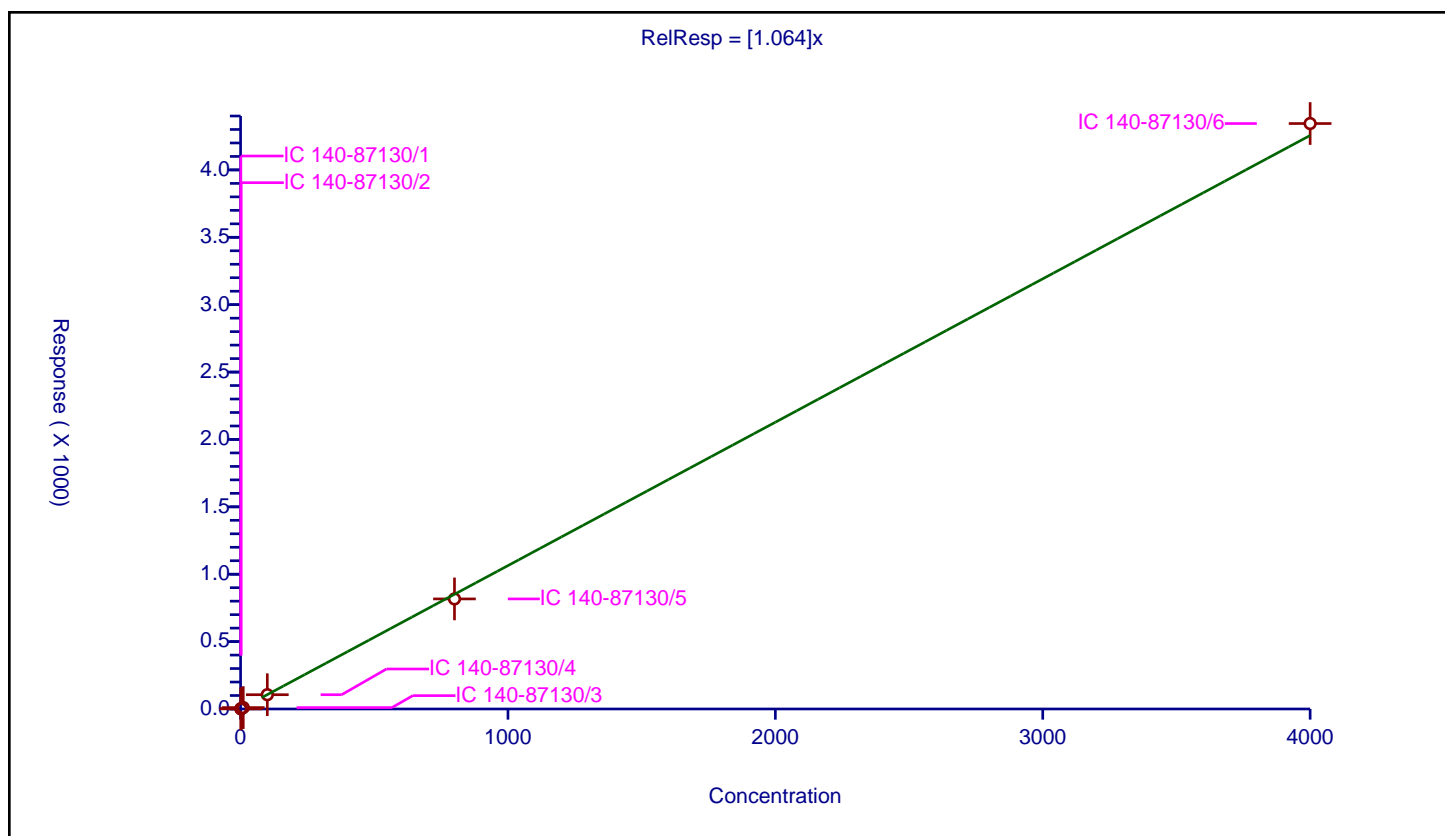
/ PCB-43

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.113409	100.0	10352263.0	1.113409	Y
2	IC 140-87130/2	2.0	2.135076	100.0	9378026.0	1.067538	Y
3	IC 140-87130/3	10.0	10.359183	100.0	9411321.0	1.035918	Y
4	IC 140-87130/4	100.0	105.993234	100.0	9689577.0	1.059932	Y
5	IC 140-87130/5	800.0	816.641241	100.0	10335461.0	1.020802	Y
6	IC 140-87130/6	4000.0	4344.200454	100.0	11264701.0	1.08605	Y



Calibration

/ PCB-43/73

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

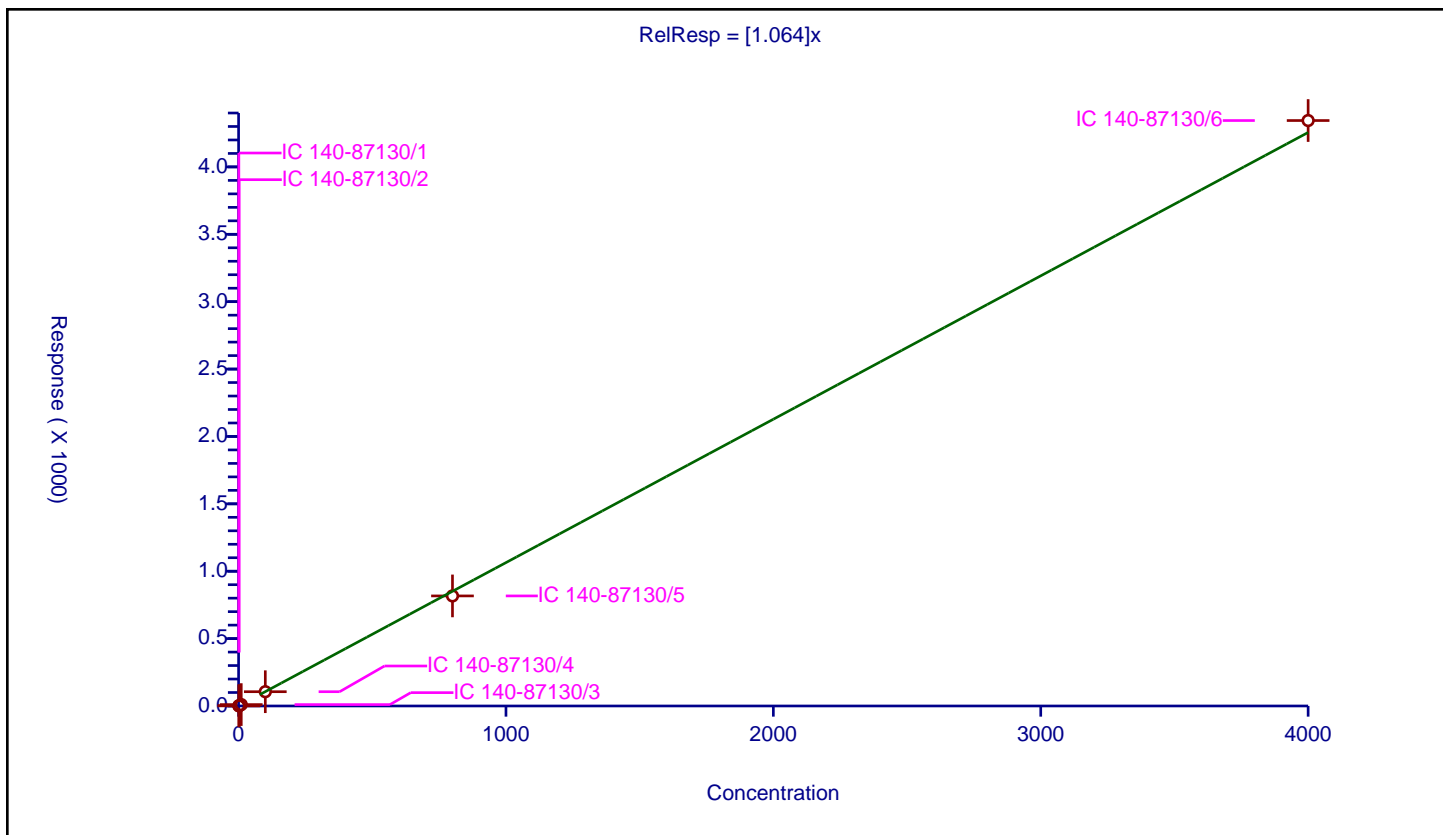
Curve Coefficients

Intercept: 0
Slope: 1.064

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.113409	100.0	10352263.0	1.113409	Y
2	IC 140-87130/2	2.0	2.135076	100.0	9378026.0	1.067538	Y
3	IC 140-87130/3	10.0	10.359183	100.0	9411321.0	1.035918	Y
4	IC 140-87130/4	100.0	105.993234	100.0	9689577.0	1.059932	Y
5	IC 140-87130/5	800.0	816.641241	100.0	10335461.0	1.020802	Y
6	IC 140-87130/6	4000.0	4344.200454	100.0	11264701.0	1.08605	Y



Calibration

/ PCB-44

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

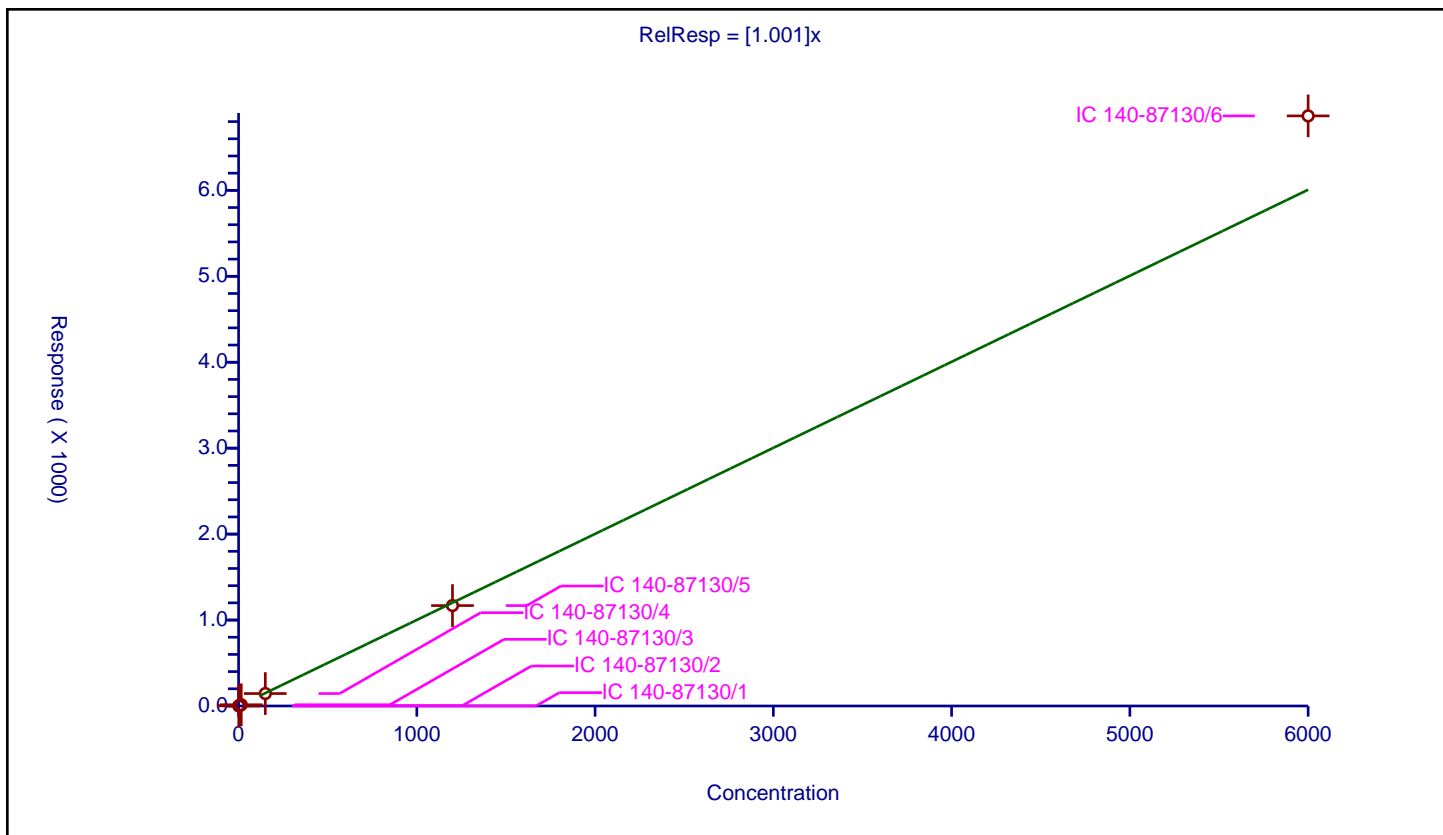
Curve Coefficients

Intercept: 0
 Slope: 1.001

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.477822	100.0	10352263.0	0.985215	Y
2	IC 140-87130/2	3.0	2.962852	100.0	9378026.0	0.987617	Y
3	IC 140-87130/3	15.0	14.283308	100.0	9411321.0	0.952221	Y
4	IC 140-87130/4	150.0	144.622474	100.0	9689577.0	0.96415	Y
5	IC 140-87130/5	1200.0	1168.291526	100.0	10335461.0	0.973576	Y
6	IC 140-87130/6	6000.0	6866.617871	100.0	11264701.0	1.144436	Y



Calibration

/ PCB-44/47/65

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

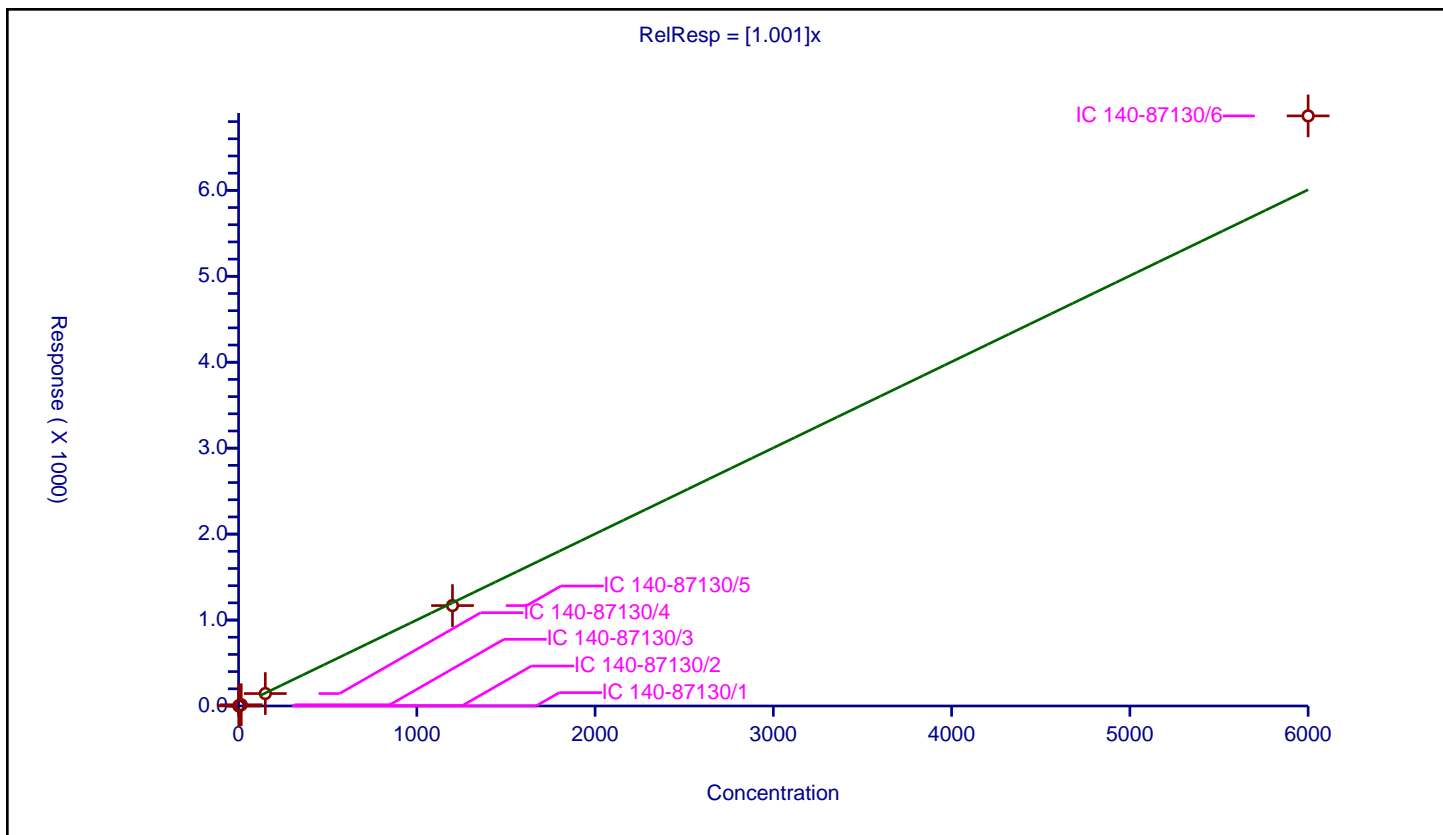
Curve Coefficients

Intercept: 0
 Slope: 1.001

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.477822	100.0	10352263.0	0.985215	Y
2	IC 140-87130/2	3.0	2.962852	100.0	9378026.0	0.987617	Y
3	IC 140-87130/3	15.0	14.283308	100.0	9411321.0	0.952221	Y
4	IC 140-87130/4	150.0	144.622474	100.0	9689577.0	0.96415	Y
5	IC 140-87130/5	1200.0	1168.291526	100.0	10335461.0	0.973576	Y
6	IC 140-87130/6	6000.0	6866.617871	100.0	11264701.0	1.144436	Y



Calibration

/ PCB-45

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

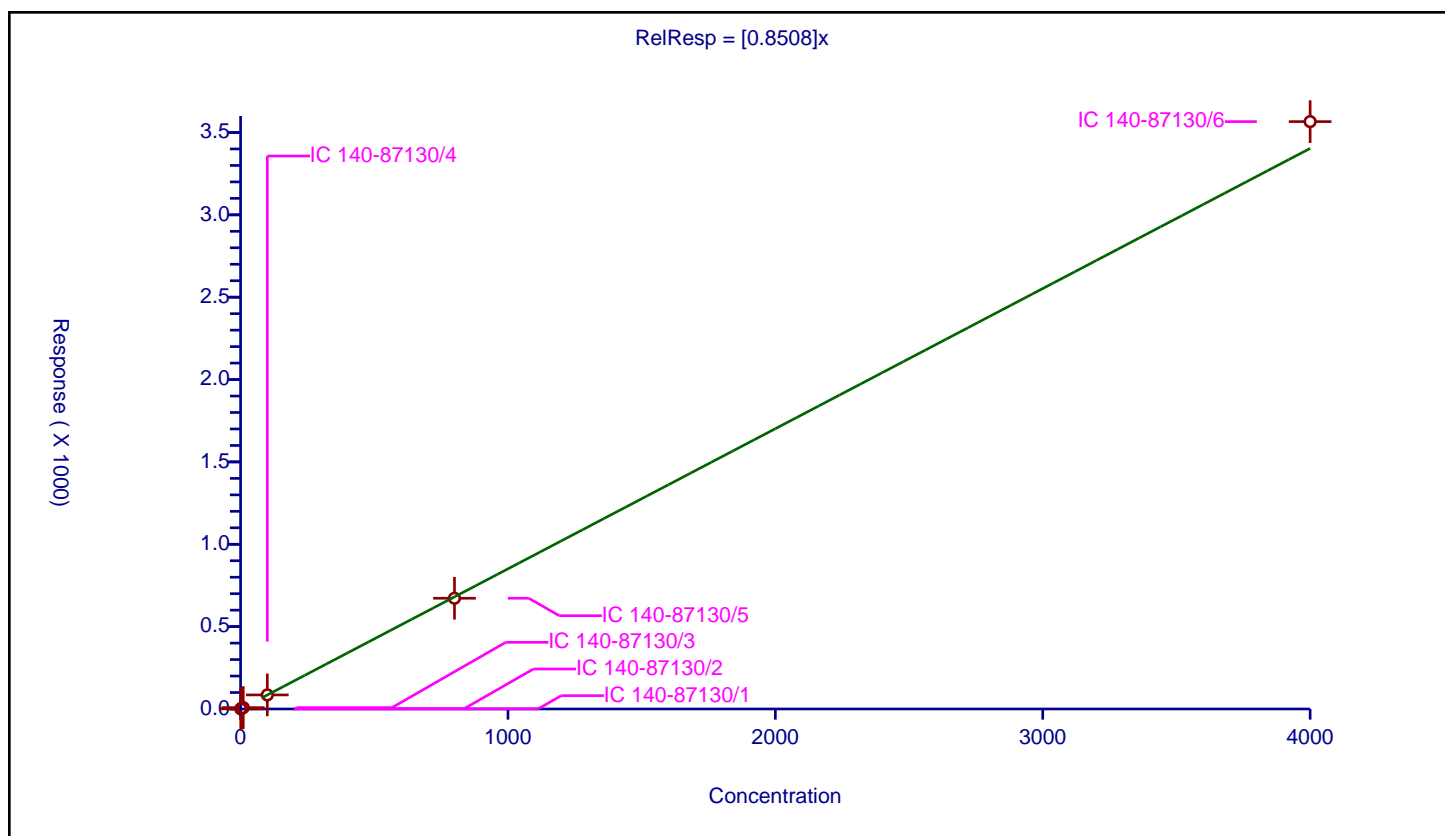
Curve Coefficients

Intercept: 0
 Slope: 0.8508

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.83999	100.0	10352263.0	0.83999	Y
2	IC 140-87130/2	2.0	1.681751	100.0	9378026.0	0.840875	Y
3	IC 140-87130/3	10.0	8.378792	100.0	9411321.0	0.837879	Y
4	IC 140-87130/4	100.0	85.434194	100.0	9689577.0	0.854342	Y
5	IC 140-87130/5	800.0	672.30468	100.0	10335461.0	0.840381	Y
6	IC 140-87130/6	4000.0	3565.952545	100.0	11264701.0	0.891488	Y



Calibration

/ PCB-45/51

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

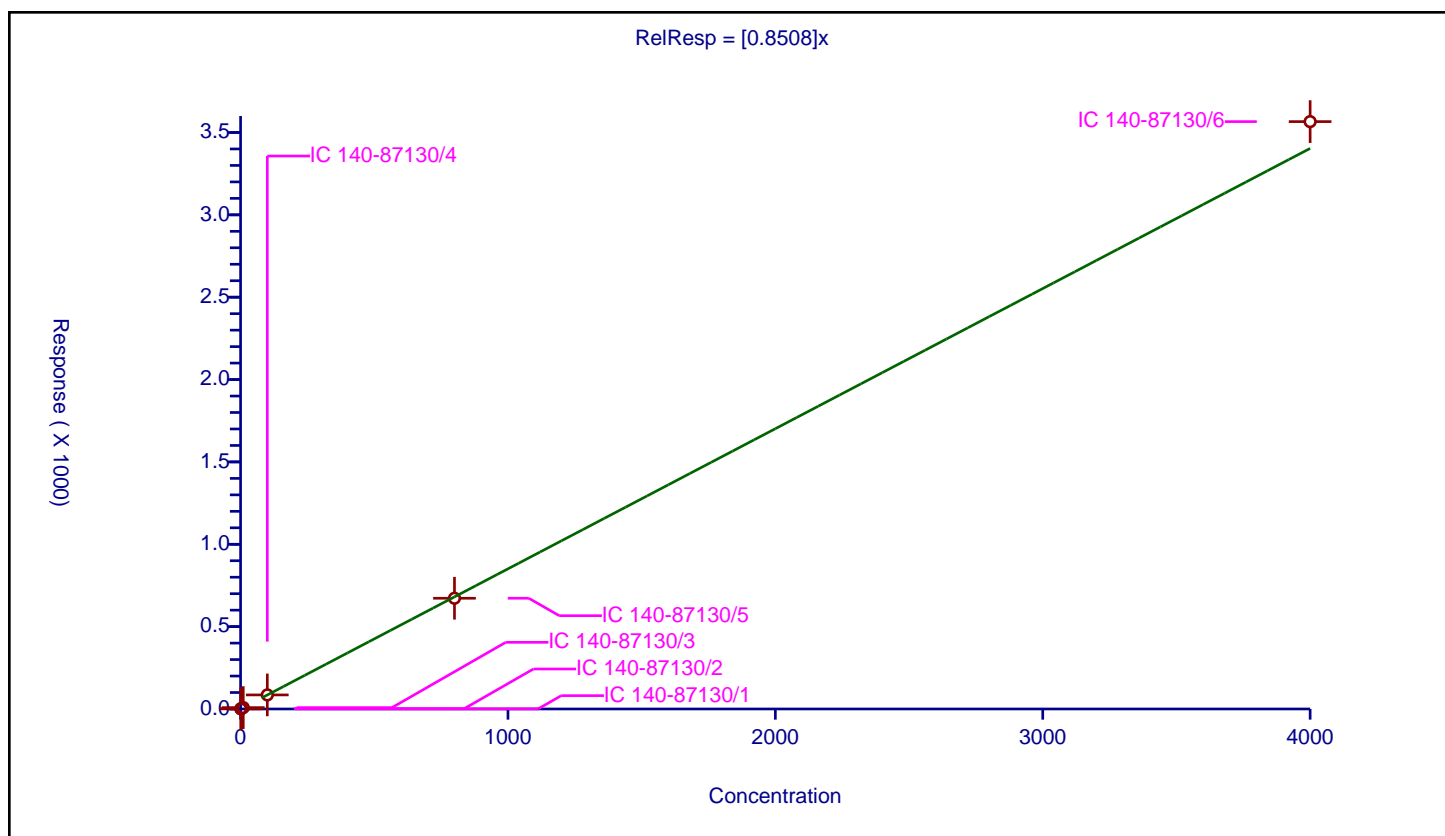
Curve Coefficients

Intercept: 0
Slope: 0.8508

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.83999	100.0	10352263.0	0.83999	Y
2	IC 140-87130/2	2.0	1.681751	100.0	9378026.0	0.840875	Y
3	IC 140-87130/3	10.0	8.378792	100.0	9411321.0	0.837879	Y
4	IC 140-87130/4	100.0	85.434194	100.0	9689577.0	0.854342	Y
5	IC 140-87130/5	800.0	672.30468	100.0	10335461.0	0.840381	Y
6	IC 140-87130/6	4000.0	3565.952545	100.0	11264701.0	0.891488	Y



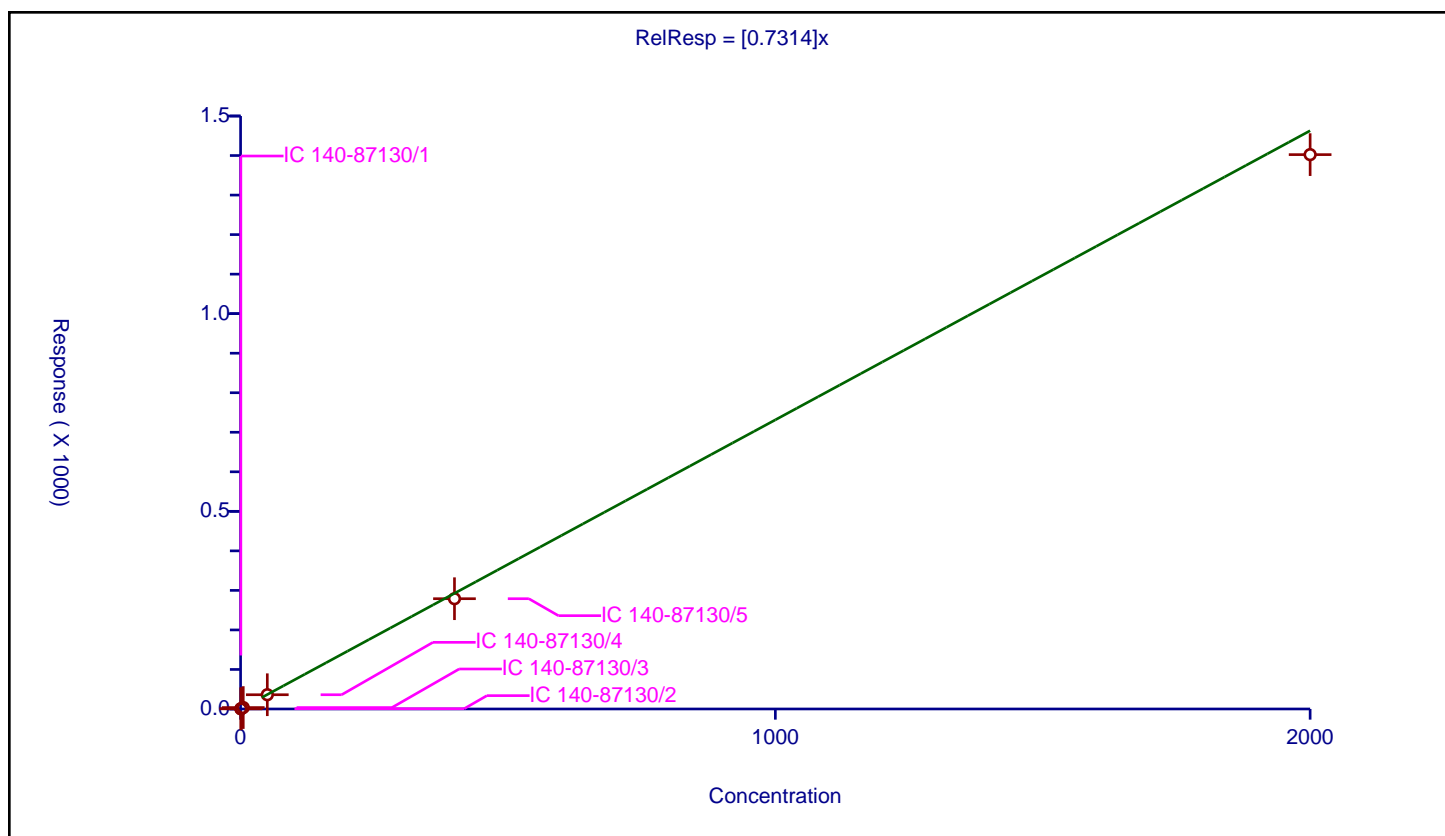
/ PCB-46

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.421087	100.0	10352263.0	0.842173	Y
2	IC 140-87130/2	1.0	0.701907	100.0	9378026.0	0.701907	Y
3	IC 140-87130/3	5.0	3.620894	100.0	9411321.0	0.724179	Y
4	IC 140-87130/4	50.0	36.07884	100.0	9689577.0	0.721577	Y
5	IC 140-87130/5	400.0	278.986162	100.0	10335461.0	0.697465	Y
6	IC 140-87130/6	2000.0	1402.339911	100.0	11264701.0	0.70117	Y



Calibration

/ PCB-47

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

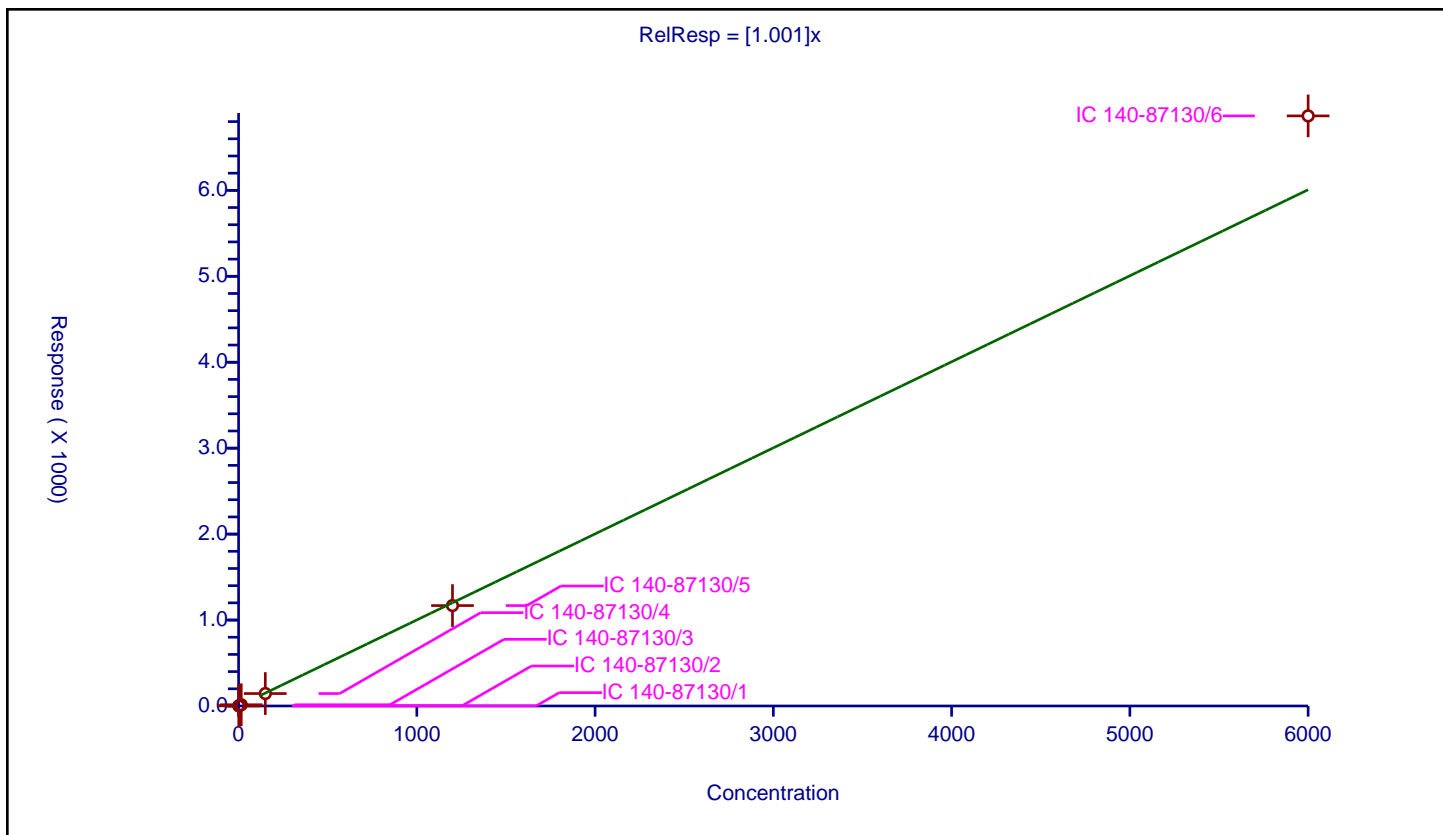
Curve Coefficients

Intercept: 0
 Slope: 1.001

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.477822	100.0	10352263.0	0.985215	Y
2	IC 140-87130/2	3.0	2.962852	100.0	9378026.0	0.987617	Y
3	IC 140-87130/3	15.0	14.283308	100.0	9411321.0	0.952221	Y
4	IC 140-87130/4	150.0	144.622474	100.0	9689577.0	0.96415	Y
5	IC 140-87130/5	1200.0	1168.291526	100.0	10335461.0	0.973576	Y
6	IC 140-87130/6	6000.0	6866.617871	100.0	11264701.0	1.144436	Y



Calibration

/ PCB-48

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

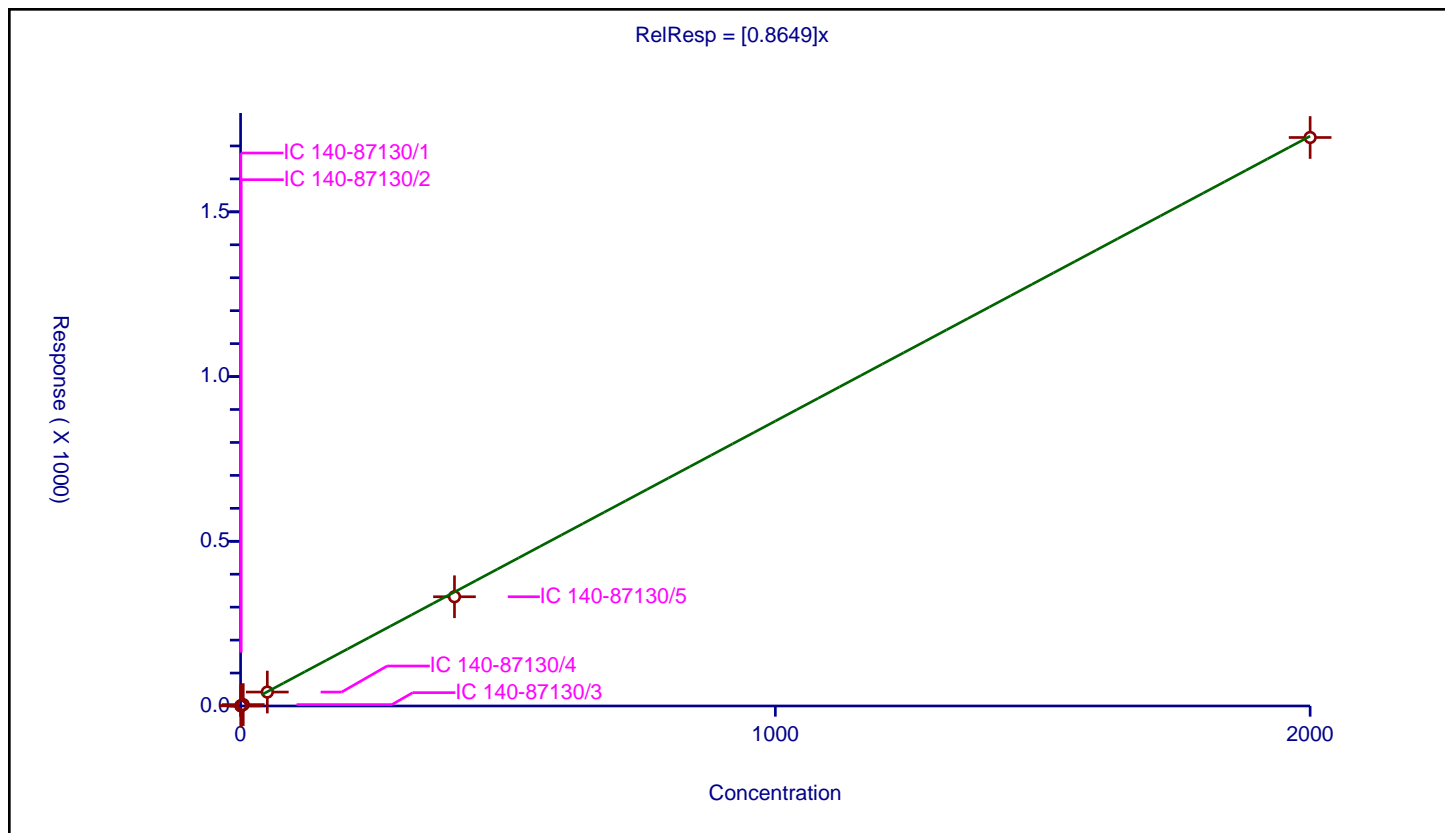
Curve Coefficients

Intercept: 0
 Slope: 0.8649

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.451447	100.0	10352263.0	0.902894	Y
2	IC 140-87130/2	1.0	0.895178	100.0	9378026.0	0.895178	Y
3	IC 140-87130/3	5.0	4.269263	100.0	9411321.0	0.853853	Y
4	IC 140-87130/4	50.0	42.27265	100.0	9689577.0	0.845453	Y
5	IC 140-87130/5	400.0	331.59593	100.0	10335461.0	0.82899	Y
6	IC 140-87130/6	2000.0	1725.660699	100.0	11264701.0	0.86283	Y



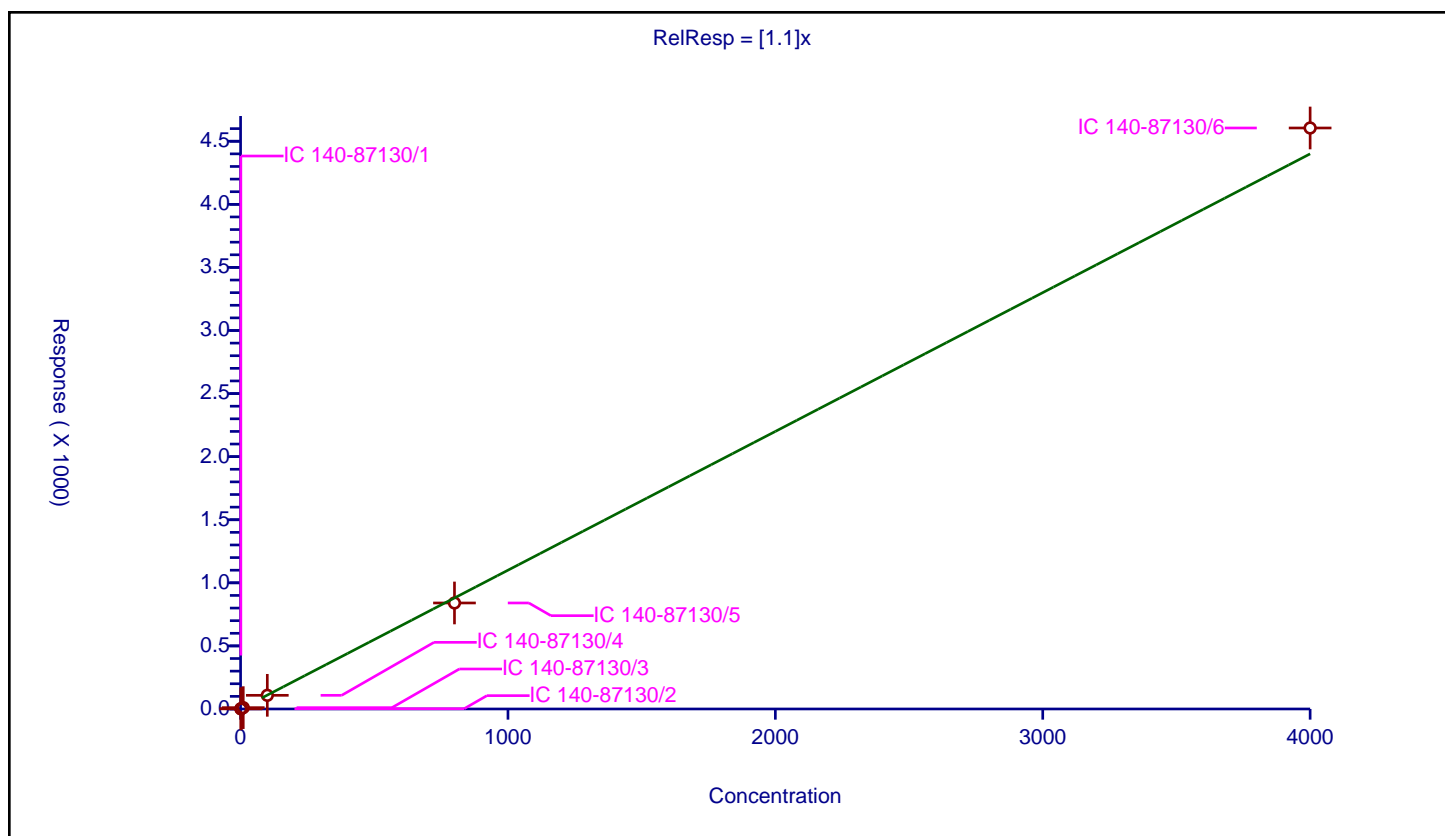
/ PCB-49

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.173569	100.0	10352263.0	1.173569	Y
2	IC 140-87130/2	2.0	2.152852	100.0	9378026.0	1.076426	Y
3	IC 140-87130/3	10.0	10.656952	100.0	9411321.0	1.065695	Y
4	IC 140-87130/4	100.0	108.268596	100.0	9689577.0	1.082686	Y
5	IC 140-87130/5	800.0	840.297438	100.0	10335461.0	1.050372	Y
6	IC 140-87130/6	4000.0	4605.085719	100.0	11264701.0	1.151271	Y



Calibration

/ PCB-49/69

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

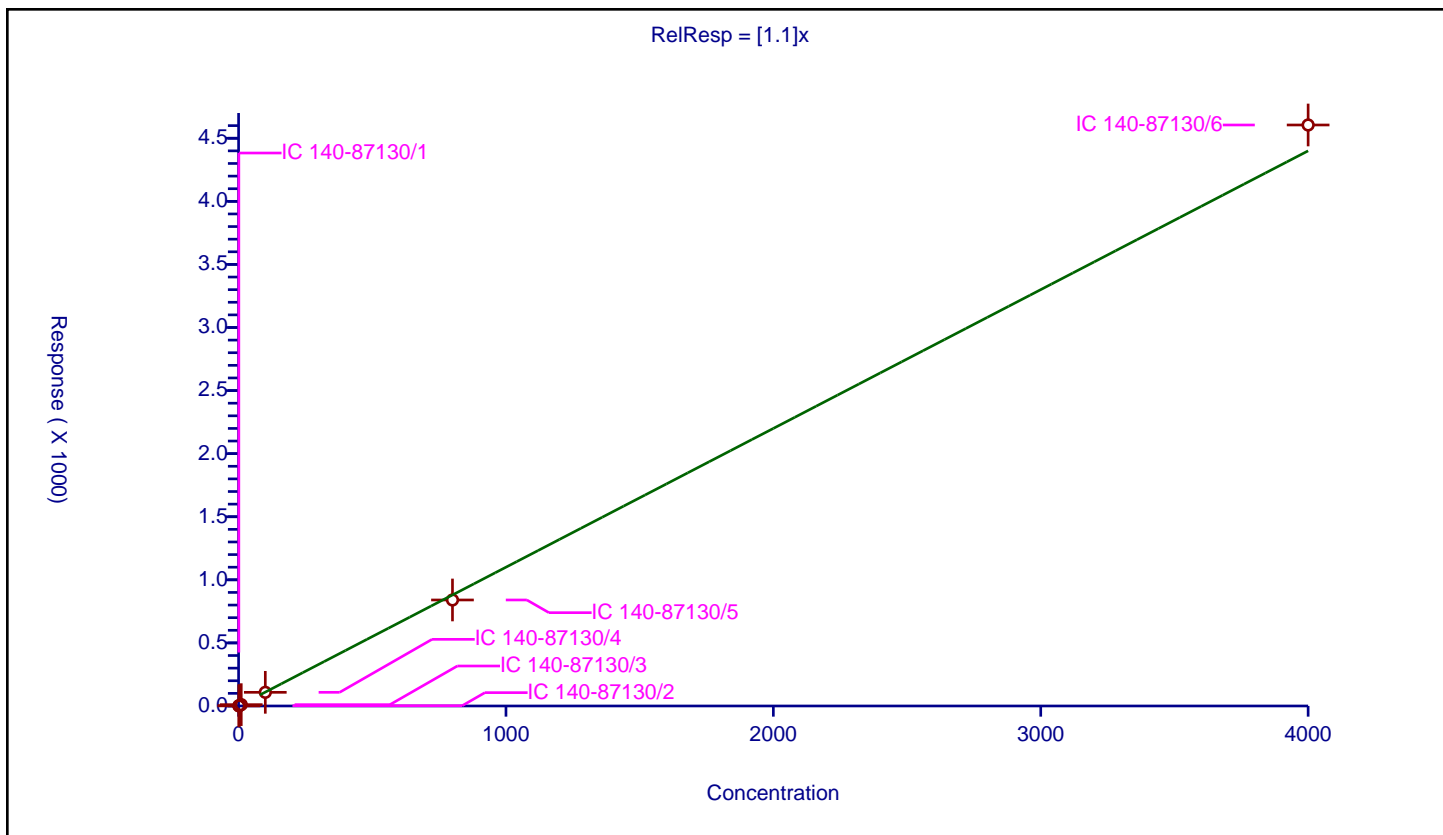
Curve Coefficients

Intercept: 0
 Slope: 1.1

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.173569	100.0	10352263.0	1.173569	Y
2	IC 140-87130/2	2.0	2.152852	100.0	9378026.0	1.076426	Y
3	IC 140-87130/3	10.0	10.656952	100.0	9411321.0	1.065695	Y
4	IC 140-87130/4	100.0	108.268596	100.0	9689577.0	1.082686	Y
5	IC 140-87130/5	800.0	840.297438	100.0	10335461.0	1.050372	Y
6	IC 140-87130/6	4000.0	4605.085719	100.0	11264701.0	1.151271	Y



Calibration

/ PCB-5

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

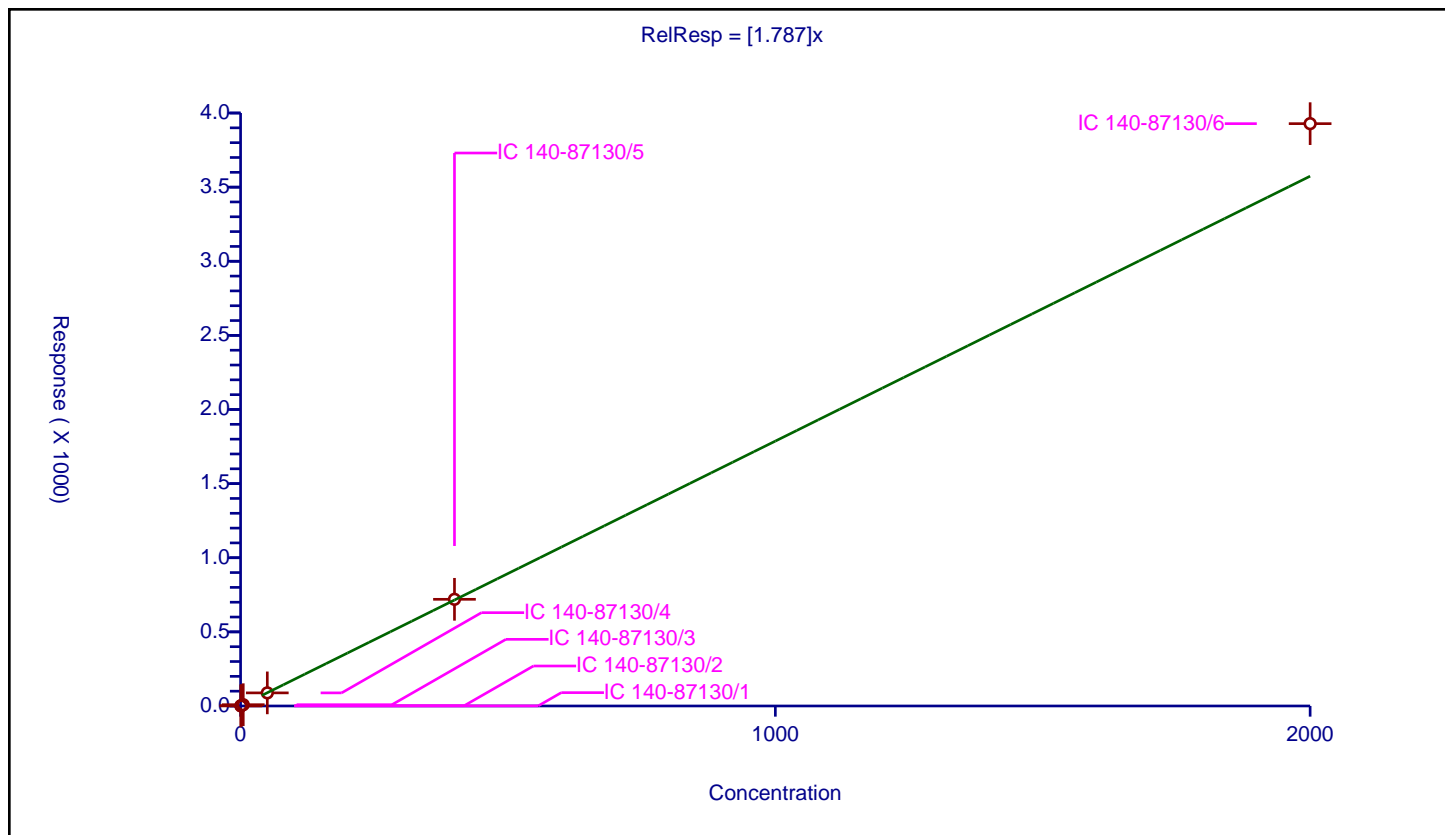
Curve Coefficients

Intercept: 0
 Slope: 1.787

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.872535	100.0	5904521.0	1.74507	Y
2	IC 140-87130/2	1.0	1.710031	100.0	5442766.0	1.710031	Y
3	IC 140-87130/3	5.0	8.665964	100.0	5279032.0	1.733193	Y
4	IC 140-87130/4	50.0	88.499354	100.0	5474214.0	1.769987	Y
5	IC 140-87130/5	400.0	719.584445	100.0	5561618.0	1.798961	Y
6	IC 140-87130/6	2000.0	3928.252502	100.0	5672202.0	1.964126	Y



Calibration

/ PCB-50

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

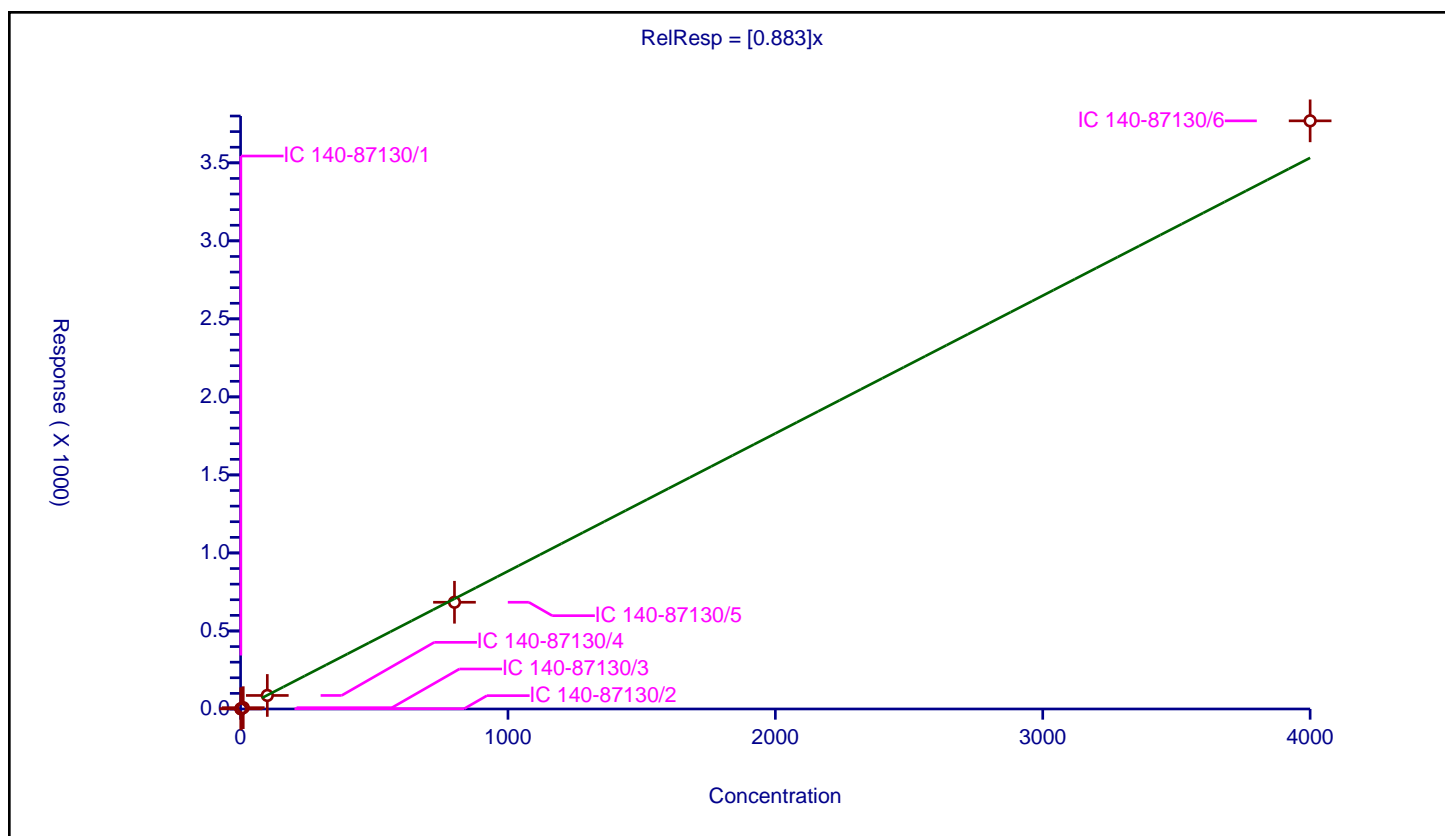
Curve Coefficients

Intercept: 0
 Slope: 0.883

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.929536	100.0	10352263.0	0.929536	Y
2	IC 140-87130/2	2.0	1.711394	100.0	9378026.0	0.855697	Y
3	IC 140-87130/3	10.0	8.478693	100.0	9411321.0	0.847869	Y
4	IC 140-87130/4	100.0	86.753612	100.0	9689577.0	0.867536	Y
5	IC 140-87130/5	800.0	683.931554	100.0	10335461.0	0.854914	Y
6	IC 140-87130/6	4000.0	3769.047851	100.0	11264701.0	0.942262	Y



Calibration

/ PCB-50/53

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

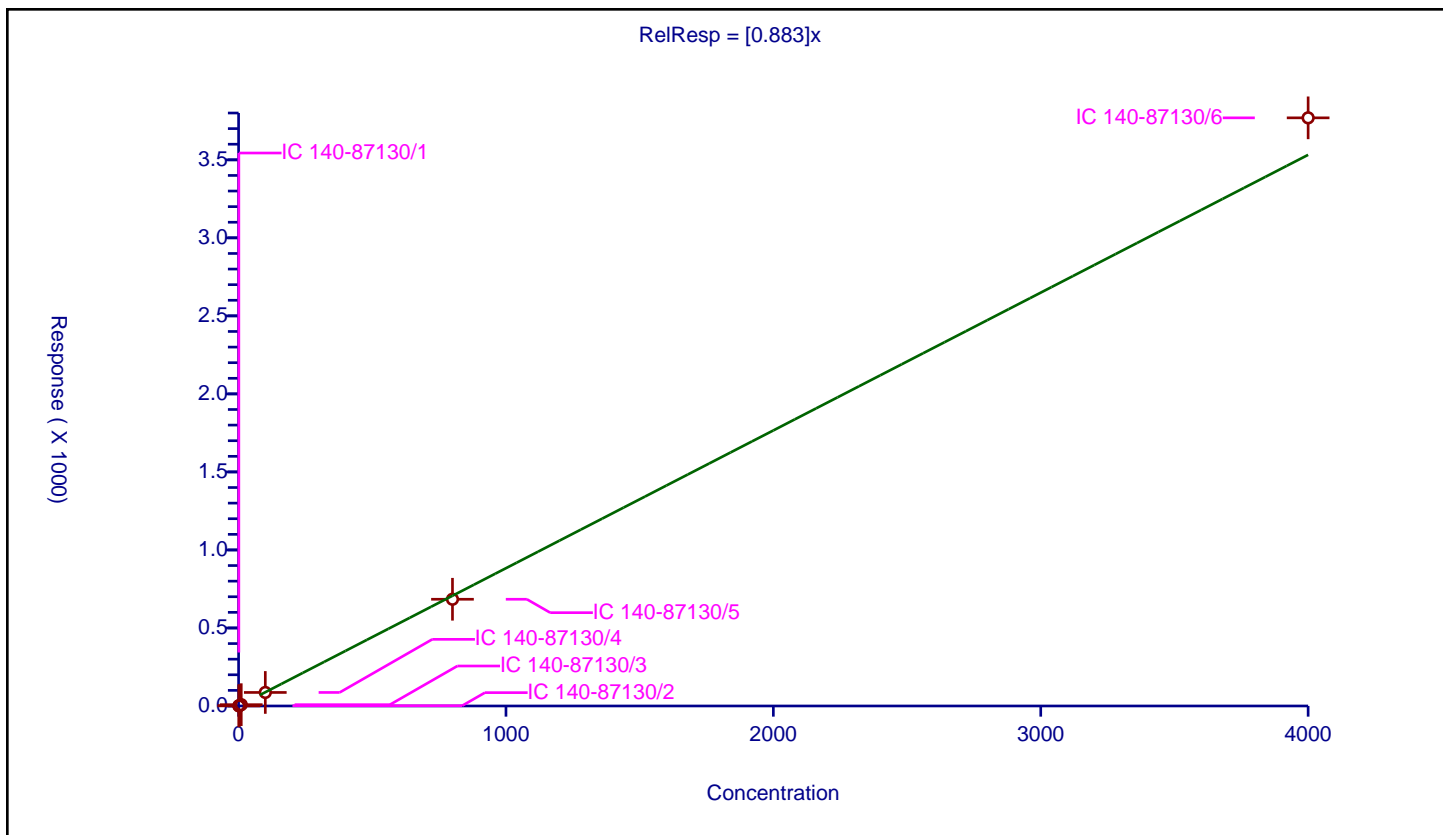
Curve Coefficients

Intercept: 0
Slope: 0.883

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.929536	100.0	10352263.0	0.929536	Y
2	IC 140-87130/2	2.0	1.711394	100.0	9378026.0	0.855697	Y
3	IC 140-87130/3	10.0	8.478693	100.0	9411321.0	0.847869	Y
4	IC 140-87130/4	100.0	86.753612	100.0	9689577.0	0.867536	Y
5	IC 140-87130/5	800.0	683.931554	100.0	10335461.0	0.854914	Y
6	IC 140-87130/6	4000.0	3769.047851	100.0	11264701.0	0.942262	Y



Calibration

/ PCB-51

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

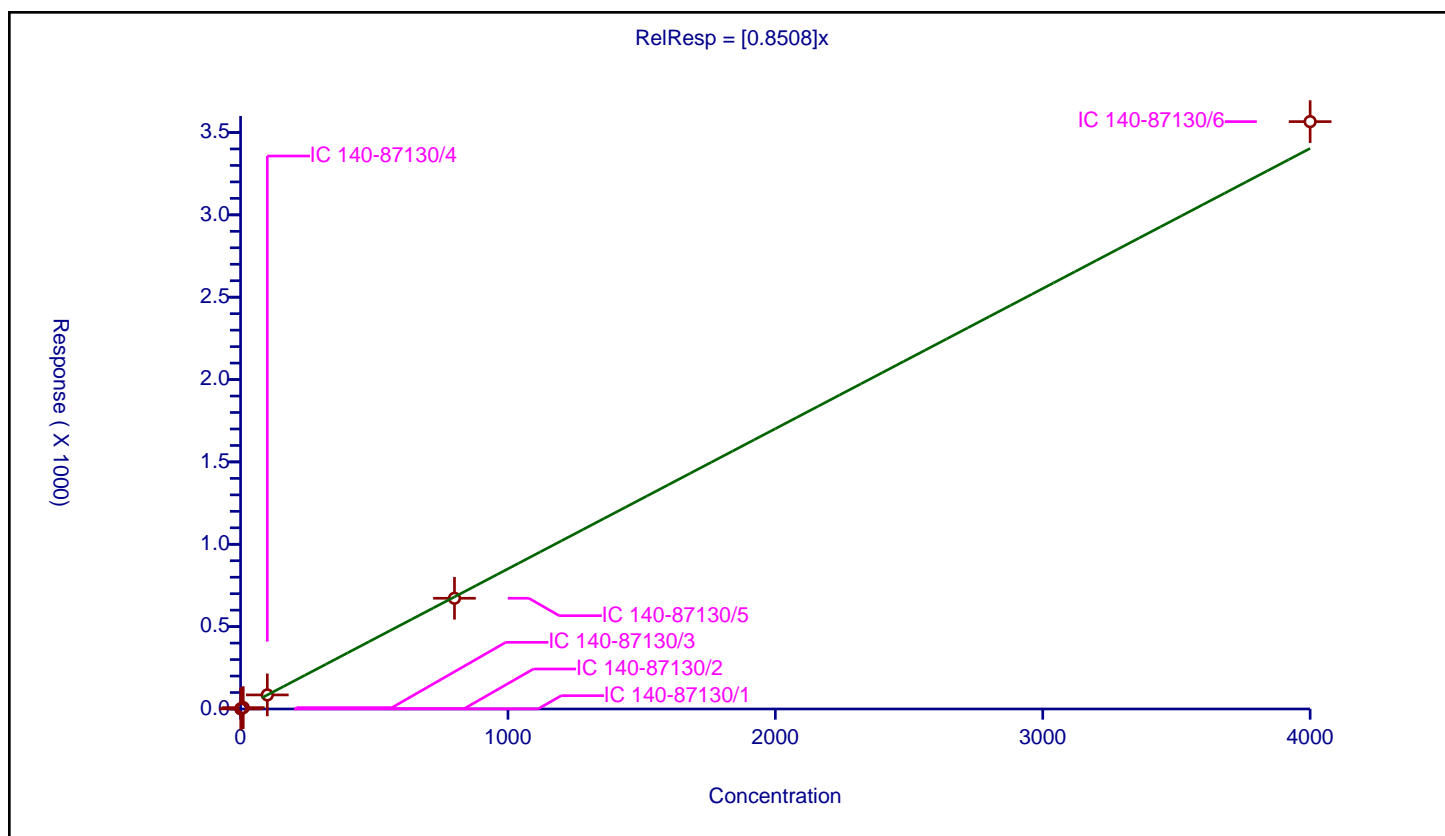
Curve Coefficients

Intercept: 0
 Slope: 0.8508

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.83999	100.0	10352263.0	0.83999	Y
2	IC 140-87130/2	2.0	1.681751	100.0	9378026.0	0.840875	Y
3	IC 140-87130/3	10.0	8.378792	100.0	9411321.0	0.837879	Y
4	IC 140-87130/4	100.0	85.434194	100.0	9689577.0	0.854342	Y
5	IC 140-87130/5	800.0	672.30468	100.0	10335461.0	0.840381	Y
6	IC 140-87130/6	4000.0	3565.952545	100.0	11264701.0	0.891488	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

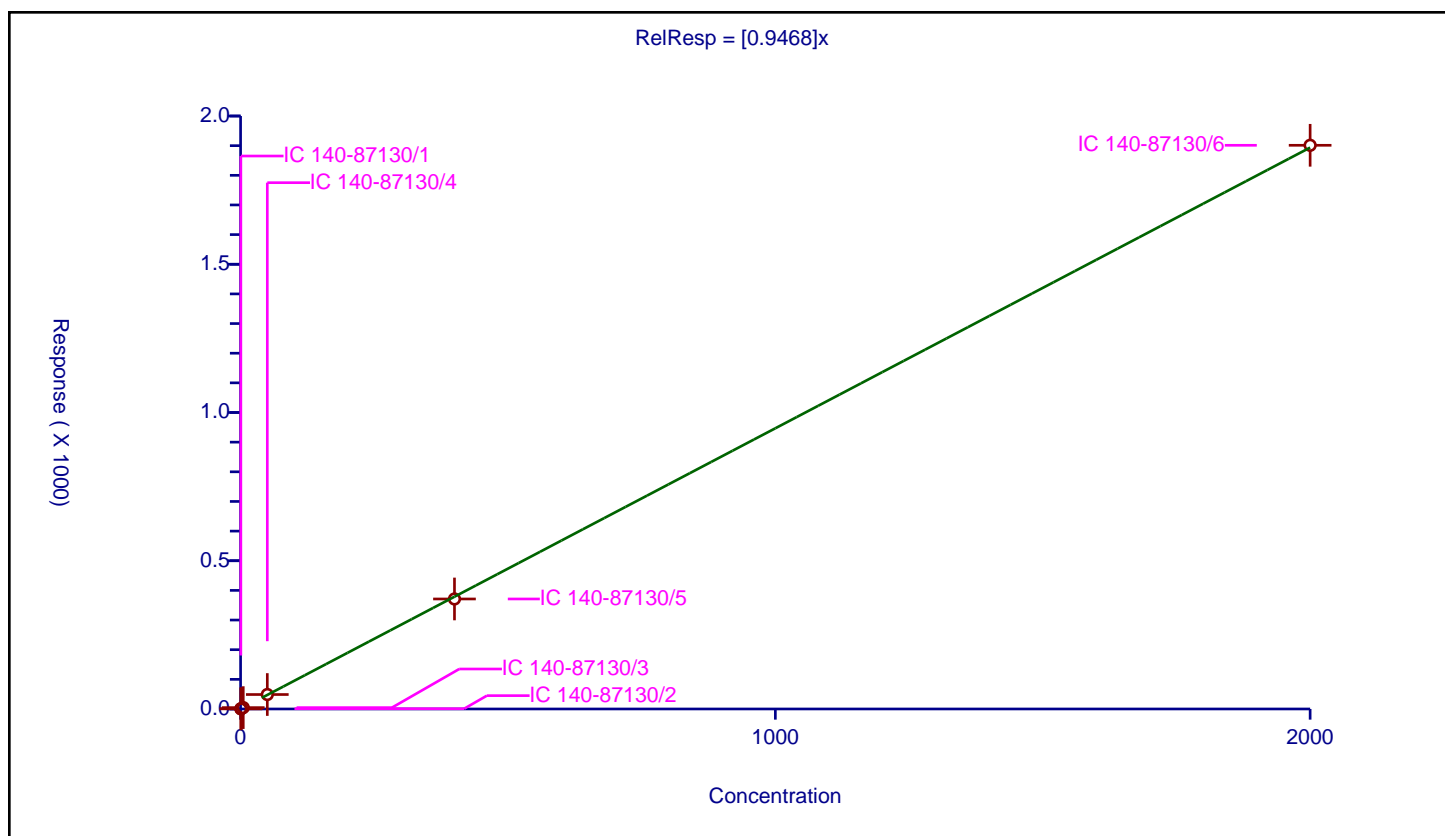
Curve Coefficients

Intercept: 0
Slope: 0.9468

Error Coefficients

Relative Standard Deviation: 1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.47861	100.0	10352263.0	0.957221	Y
2	IC 140-87130/2	1.0	0.935517	100.0	9378026.0	0.935517	Y
3	IC 140-87130/3	5.0	4.673403	100.0	9411321.0	0.934681	Y
4	IC 140-87130/4	50.0	48.750436	100.0	9689577.0	0.975009	Y
5	IC 140-87130/5	400.0	371.091652	100.0	10335461.0	0.927729	Y
6	IC 140-87130/6	2000.0	1901.220503	100.0	11264701.0	0.95061	Y



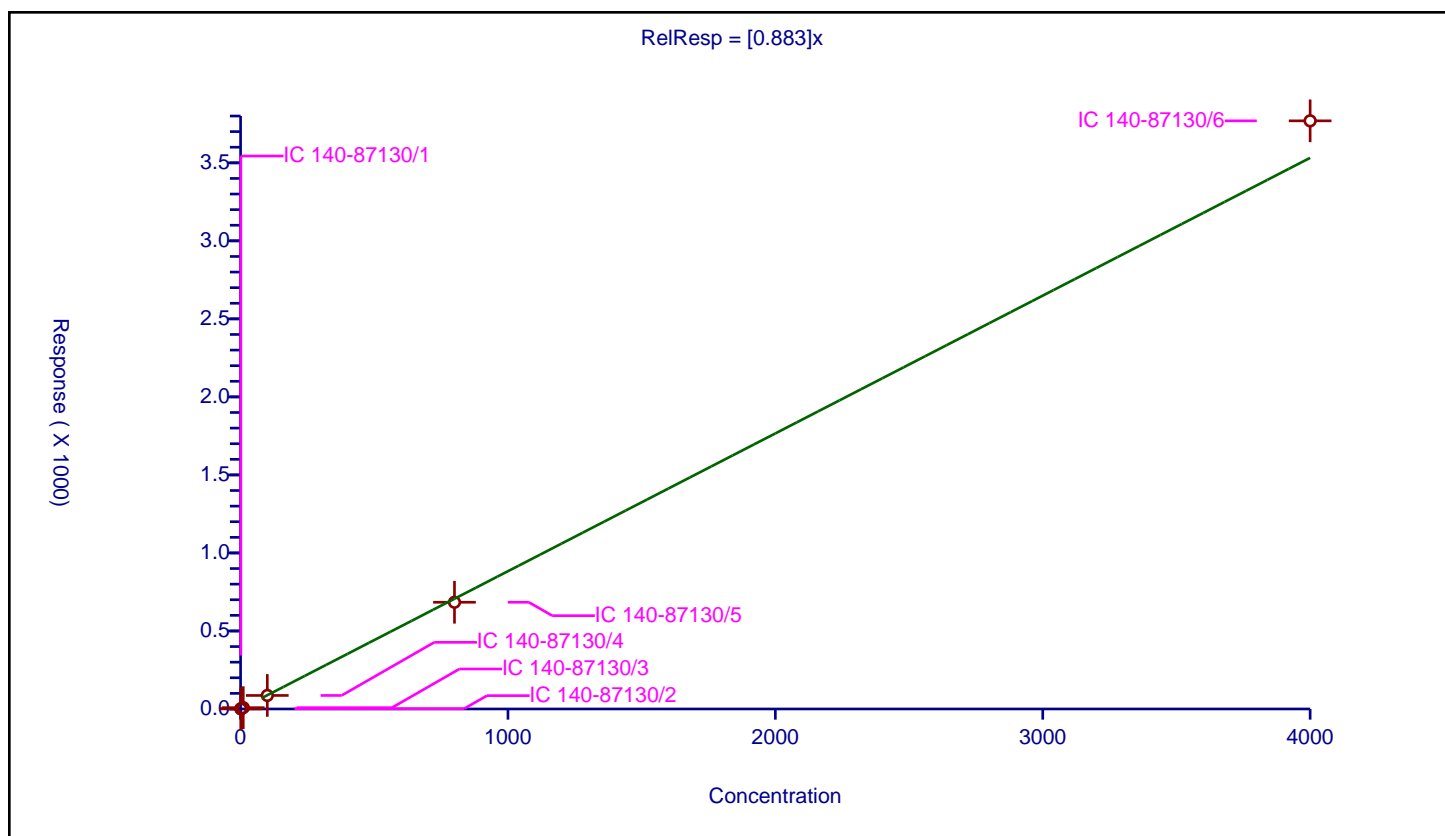
/ PCB-53

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.929536	100.0	10352263.0	0.929536	Y
2	IC 140-87130/2	2.0	1.711394	100.0	9378026.0	0.855697	Y
3	IC 140-87130/3	10.0	8.478693	100.0	9411321.0	0.847869	Y
4	IC 140-87130/4	100.0	86.753612	100.0	9689577.0	0.867536	Y
5	IC 140-87130/5	800.0	683.931554	100.0	10335461.0	0.854914	Y
6	IC 140-87130/6	4000.0	3769.047851	100.0	11264701.0	0.942262	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

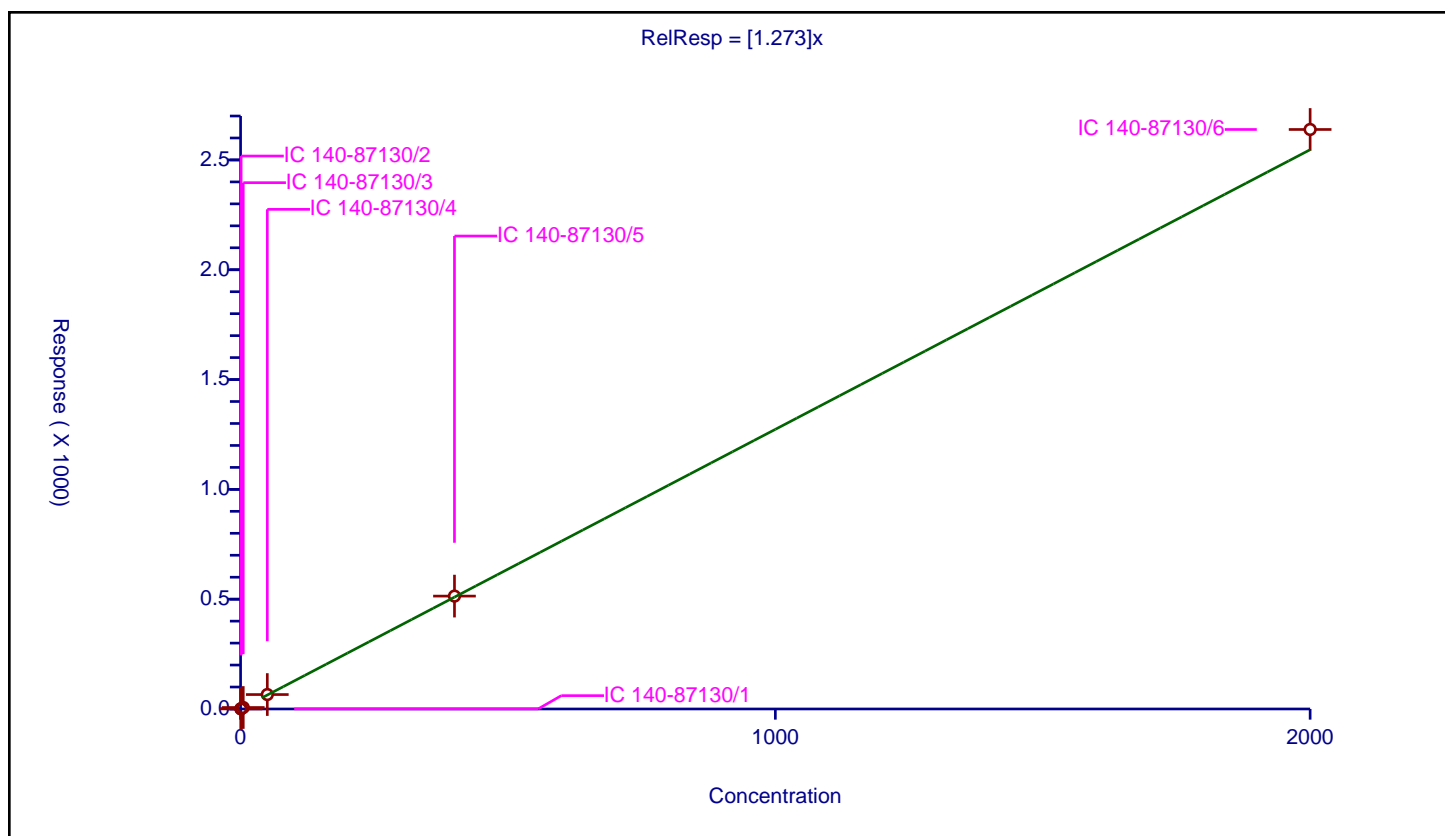
Curve Coefficients

Intercept: 0
Slope: 1.273

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.527395	100.0	3394991.0	1.054789	Y
2	IC 140-87130/2	1.0	1.324963	100.0	3010951.0	1.324963	Y
3	IC 140-87130/3	5.0	6.698994	100.0	2803421.0	1.339799	Y
4	IC 140-87130/4	50.0	65.800259	100.0	3125781.0	1.316005	Y
5	IC 140-87130/5	400.0	513.98725	100.0	3162909.0	1.284968	Y
6	IC 140-87130/6	2000.0	2638.710193	100.0	3193810.0	1.319355	Y



Calibration

/ PCB-55

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

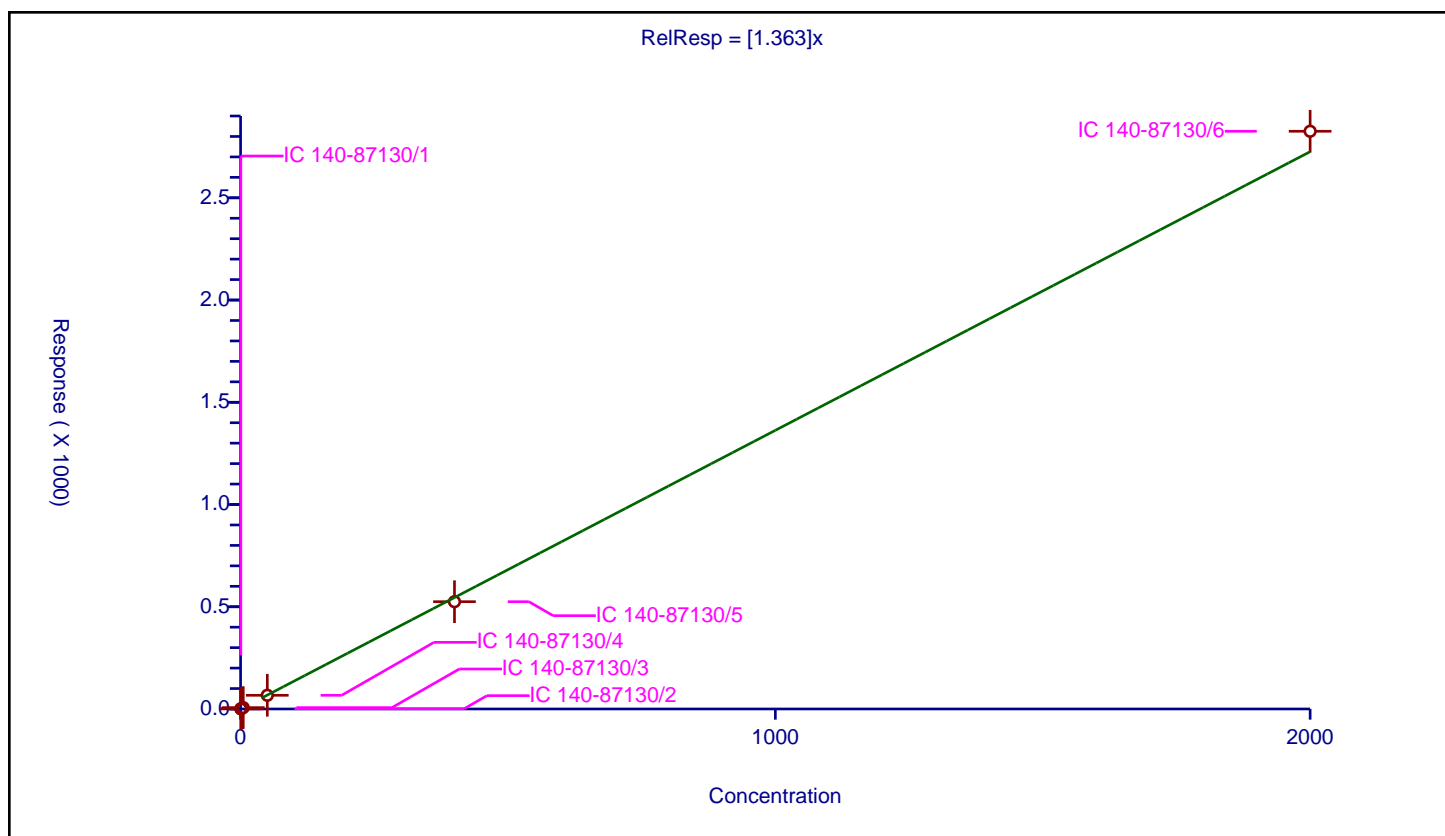
Curve Coefficients

Intercept: 0
Slope: 1.363

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.7503	100.0	10352263.0	1.500599	Y
2	IC 140-87130/2	1.0	1.274383	100.0	9378026.0	1.274383	Y
3	IC 140-87130/3	5.0	6.694958	100.0	9411321.0	1.338992	Y
4	IC 140-87130/4	50.0	66.912374	100.0	9689577.0	1.338247	Y
5	IC 140-87130/5	400.0	524.701162	100.0	10335461.0	1.311753	Y
6	IC 140-87130/6	2000.0	2825.418127	100.0	11264701.0	1.412709	Y



Calibration

/ PCB-56

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

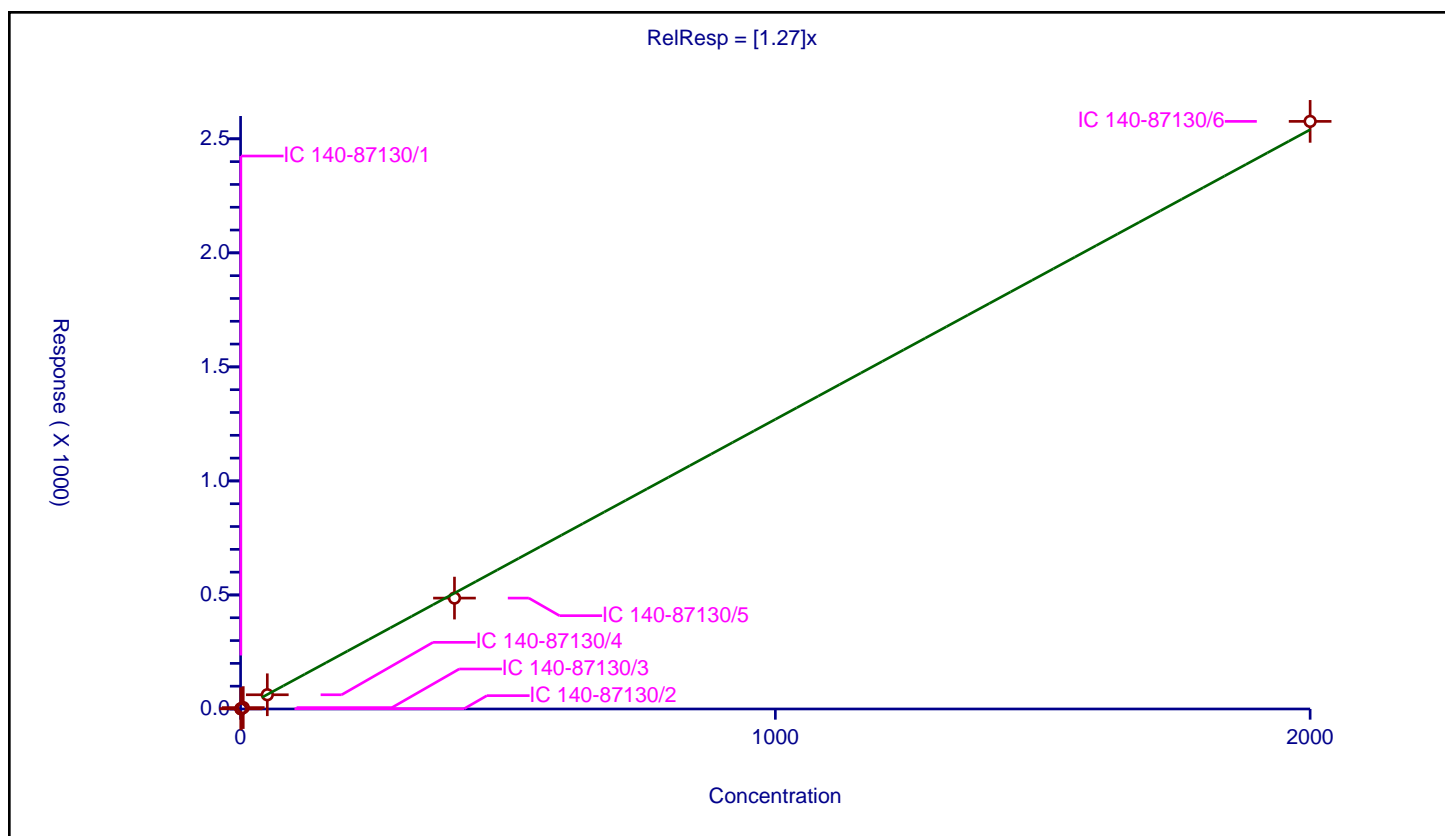
Curve Coefficients

Intercept: 0
Slope: 1.27

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.721185	100.0	10352263.0	1.442371	Y
2	IC 140-87130/2	1.0	1.200711	100.0	9378026.0	1.200711	Y
3	IC 140-87130/3	5.0	6.131732	100.0	9411321.0	1.226346	Y
4	IC 140-87130/4	50.0	62.350988	100.0	9689577.0	1.24702	Y
5	IC 140-87130/5	400.0	486.206024	100.0	10335461.0	1.215515	Y
6	IC 140-87130/6	2000.0	2576.543745	100.0	11264701.0	1.288272	Y



Calibration

/ PCB-57

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

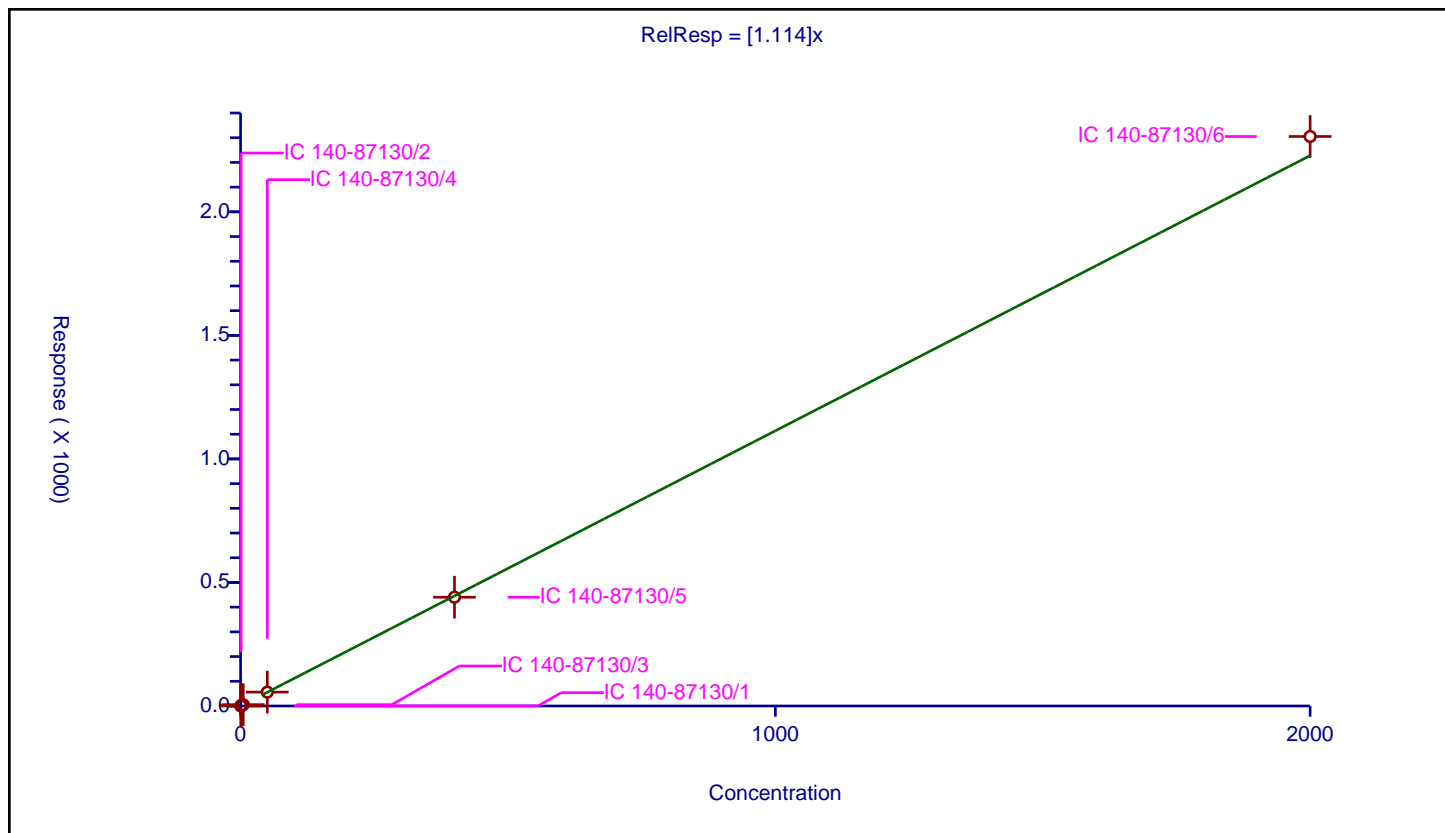
Curve Coefficients

Intercept: 0
Slope: 1.114

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.530493	100.0	10352263.0	1.060985	Y
2	IC 140-87130/2	1.0	1.149901	100.0	9378026.0	1.149901	Y
3	IC 140-87130/3	5.0	5.475012	100.0	9411321.0	1.095002	Y
4	IC 140-87130/4	50.0	56.200317	100.0	9689577.0	1.124006	Y
5	IC 140-87130/5	400.0	440.170961	100.0	10335461.0	1.100427	Y
6	IC 140-87130/6	2000.0	2305.01091	100.0	11264701.0	1.152505	Y



Calibration

/ PCB-58

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

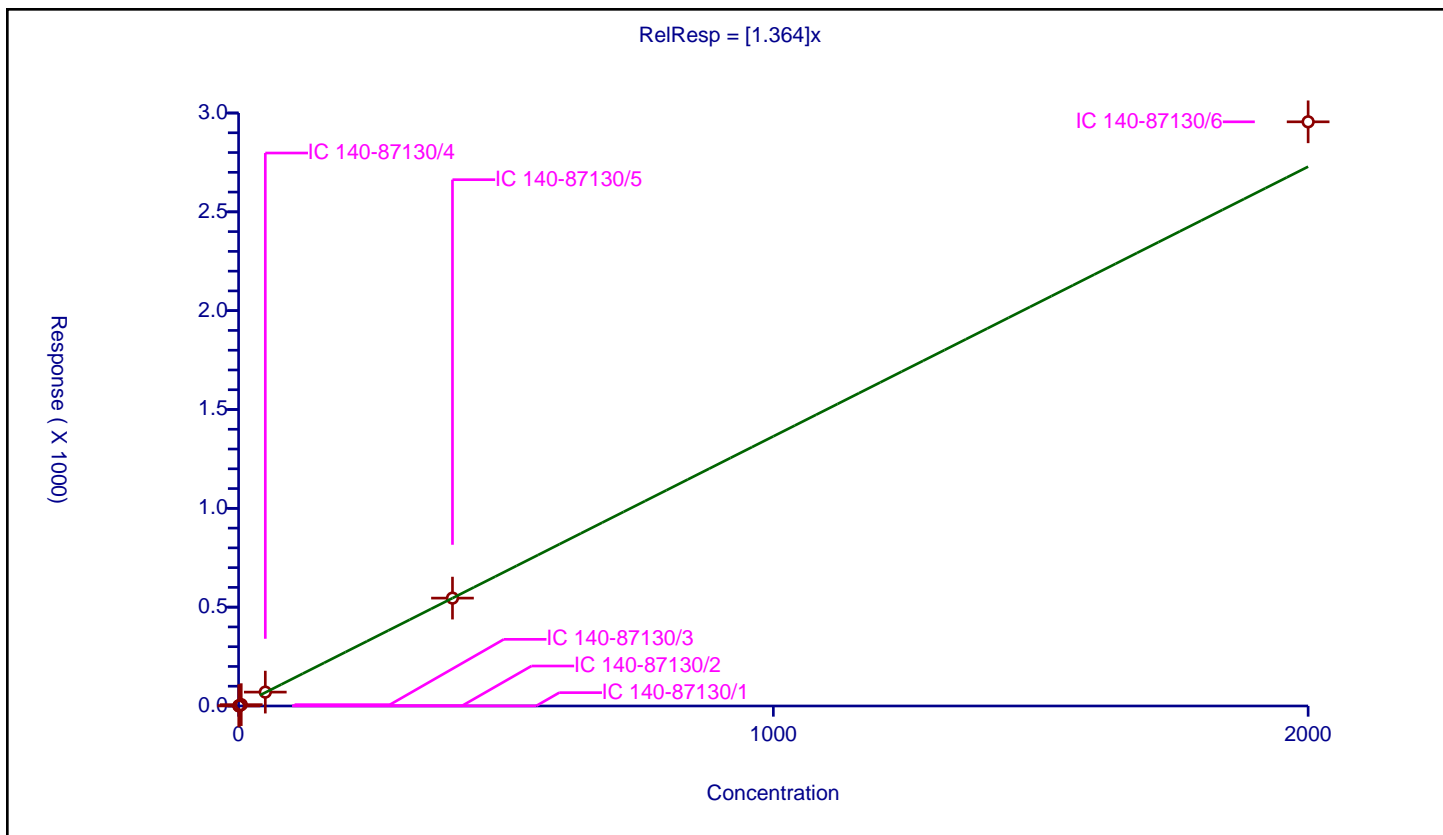
Curve Coefficients

Intercept: 0
Slope: 1.364

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.662531	100.0	10352263.0	1.325063	Y
2	IC 140-87130/2	1.0	1.255083	100.0	9378026.0	1.255083	Y
3	IC 140-87130/3	5.0	6.788739	100.0	9411321.0	1.357748	Y
4	IC 140-87130/4	50.0	70.262778	100.0	9689577.0	1.405256	Y
5	IC 140-87130/5	400.0	545.857509	100.0	10335461.0	1.364644	Y
6	IC 140-87130/6	2000.0	2955.489365	100.0	11264701.0	1.477745	Y



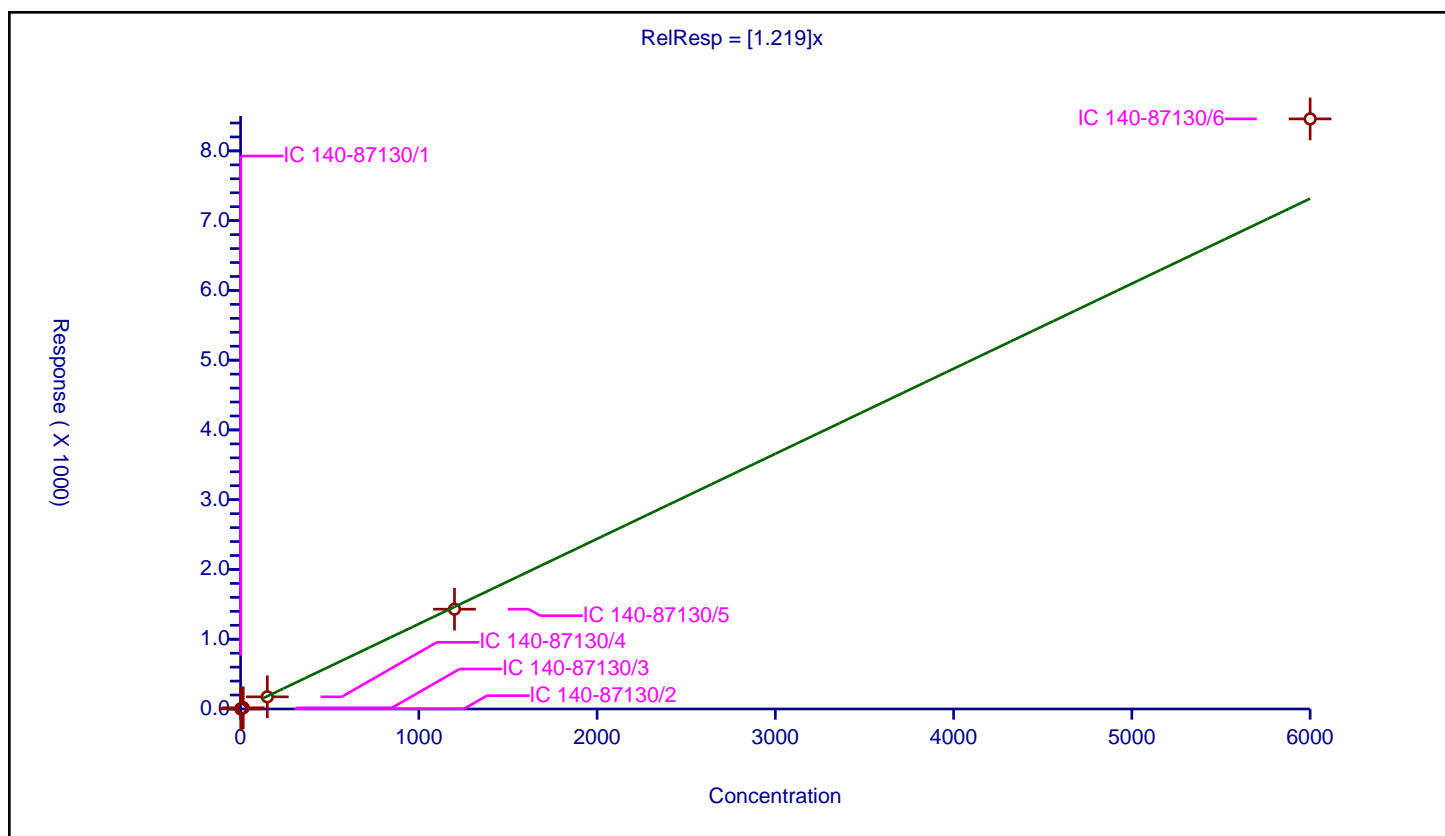
/ PCB-59

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.866558	100.0	10352263.0	1.244372	Y
2	IC 140-87130/2	3.0	3.532332	100.0	9378026.0	1.177444	Y
3	IC 140-87130/3	15.0	16.979104	100.0	9411321.0	1.13194	Y
4	IC 140-87130/4	150.0	174.121842	100.0	9689577.0	1.160812	Y
5	IC 140-87130/5	1200.0	1430.71416	100.0	10335461.0	1.192262	Y
6	IC 140-87130/6	6000.0	8458.708198	100.0	11264701.0	1.409785	Y



Calibration

/ PCB-59/62/75

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

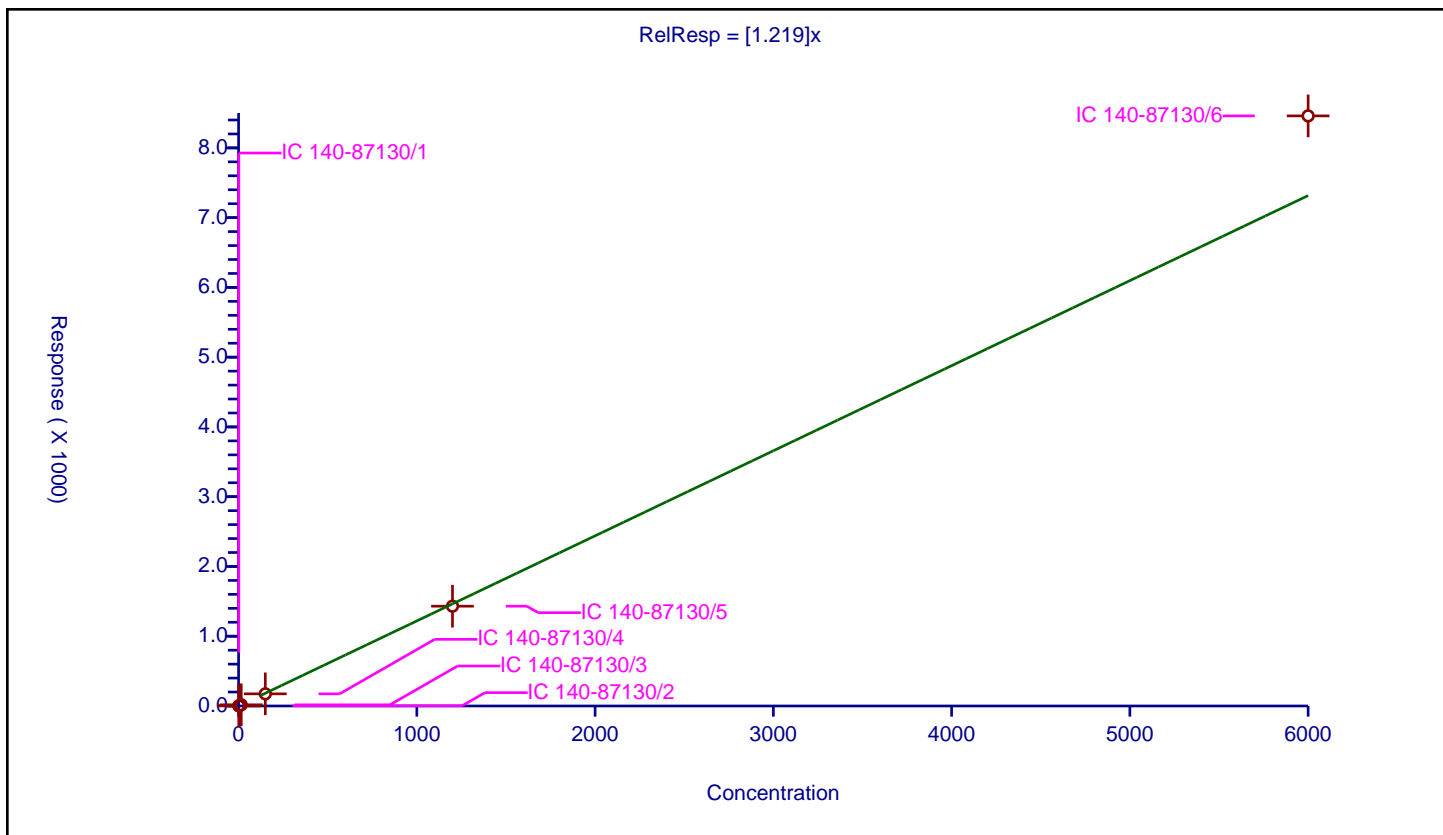
Curve Coefficients

Intercept: 0
Slope: 1.219

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.866558	100.0	10352263.0	1.244372	Y
2	IC 140-87130/2	3.0	3.532332	100.0	9378026.0	1.177444	Y
3	IC 140-87130/3	15.0	16.979104	100.0	9411321.0	1.13194	Y
4	IC 140-87130/4	150.0	174.121842	100.0	9689577.0	1.160812	Y
5	IC 140-87130/5	1200.0	1430.71416	100.0	10335461.0	1.192262	Y
6	IC 140-87130/6	6000.0	8458.708198	100.0	11264701.0	1.409785	Y



Calibration

/ PCB-6

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

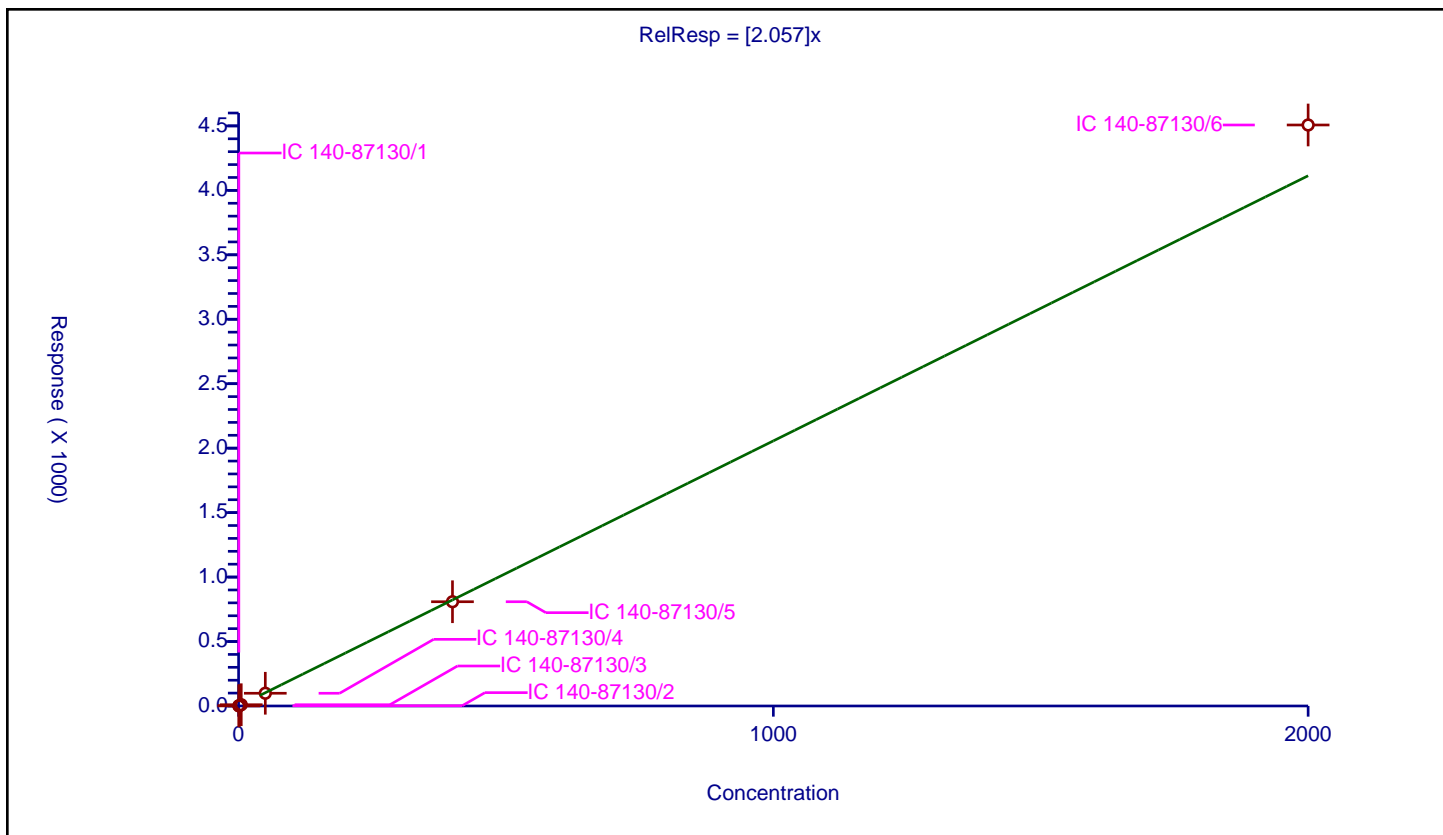
Curve Coefficients

Intercept: 0
Slope: 2.057

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	1.064168	100.0	5904521.0	2.128335	Y
2	IC 140-87130/2	1.0	1.998451	100.0	5442766.0	1.998451	Y
3	IC 140-87130/3	5.0	9.80909	100.0	5279032.0	1.961818	Y
4	IC 140-87130/4	50.0	98.79232	100.0	5474214.0	1.975846	Y
5	IC 140-87130/5	400.0	808.750943	100.0	5561618.0	2.021877	Y
6	IC 140-87130/6	2000.0	4507.022934	100.0	5672202.0	2.253511	Y



Calibration

/ PCB-60

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

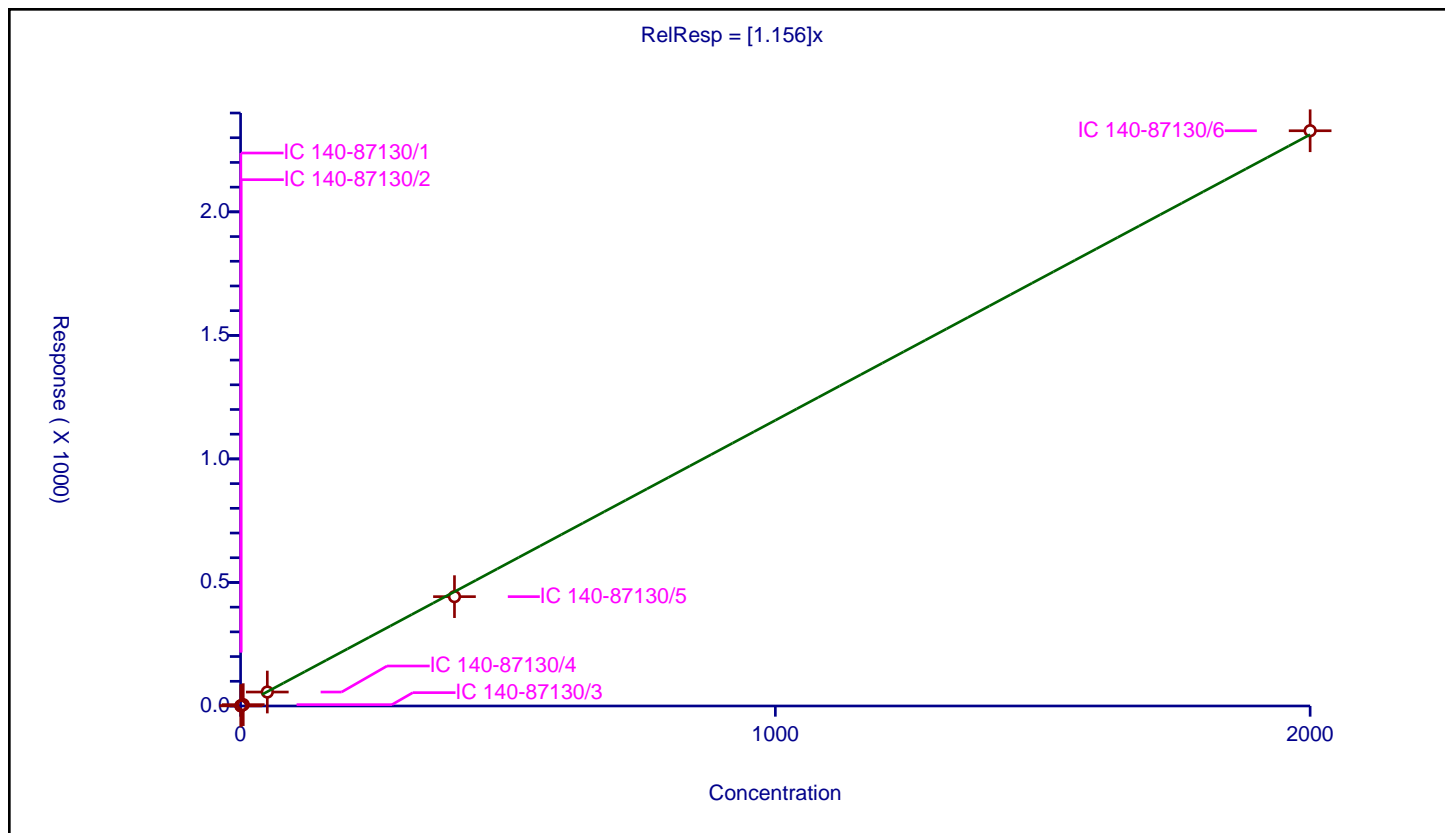
Curve Coefficients

Intercept: 0
Slope: 1.156

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.584143	100.0	10352263.0	1.168286	Y
2	IC 140-87130/2	1.0	1.283522	100.0	9378026.0	1.283522	Y
3	IC 140-87130/3	5.0	5.427495	100.0	9411321.0	1.085499	Y
4	IC 140-87130/4	50.0	56.506904	100.0	9689577.0	1.130138	Y
5	IC 140-87130/5	400.0	442.551619	100.0	10335461.0	1.106379	Y
6	IC 140-87130/6	2000.0	2328.177366	100.0	11264701.0	1.164089	Y



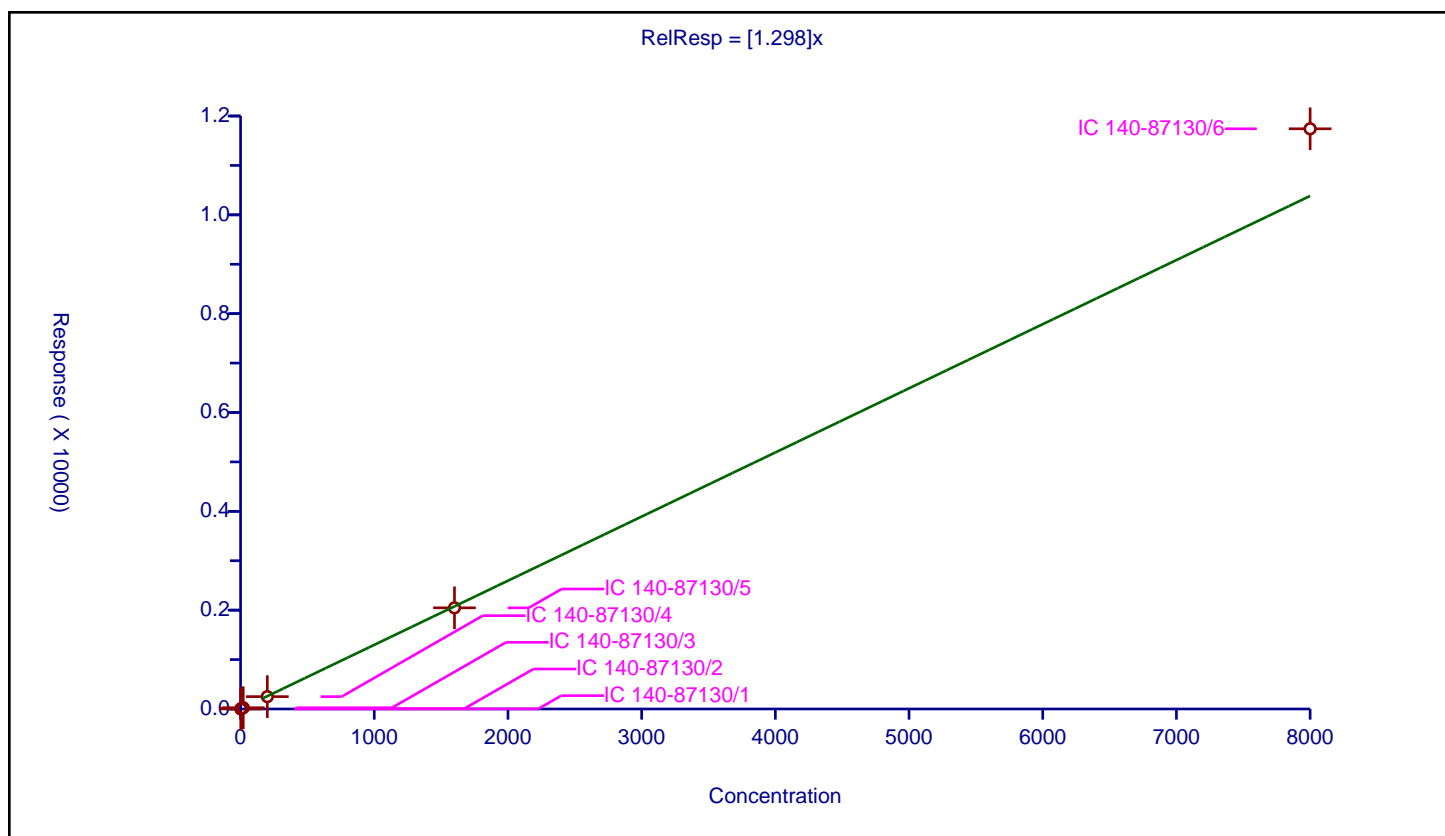
/ PCB-61

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 6.5

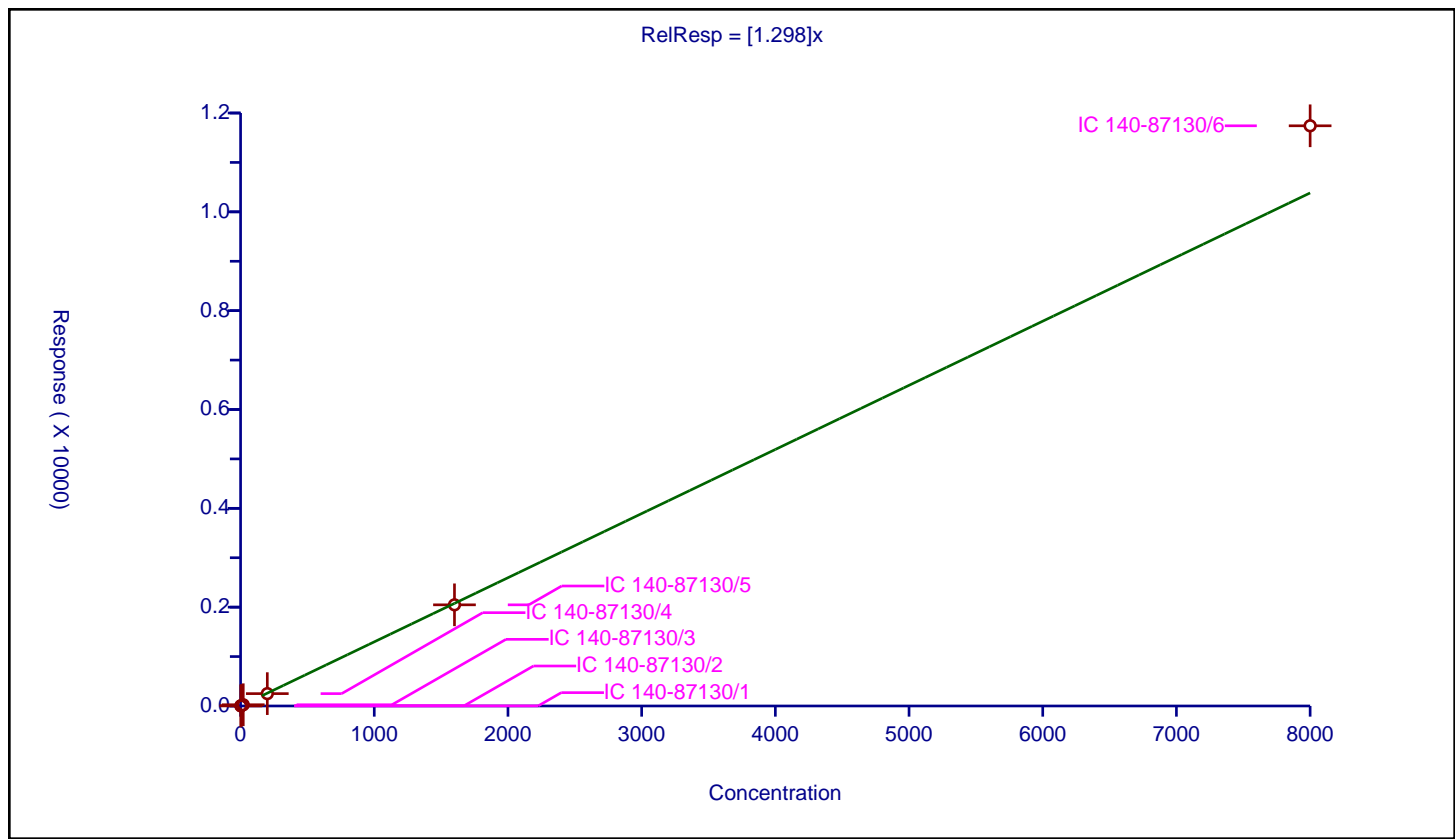
ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



/ PCB-61/70/74/76

Curve Coefficients	
Intercept:	0
Slope:	1.298
Error Coefficients	
Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



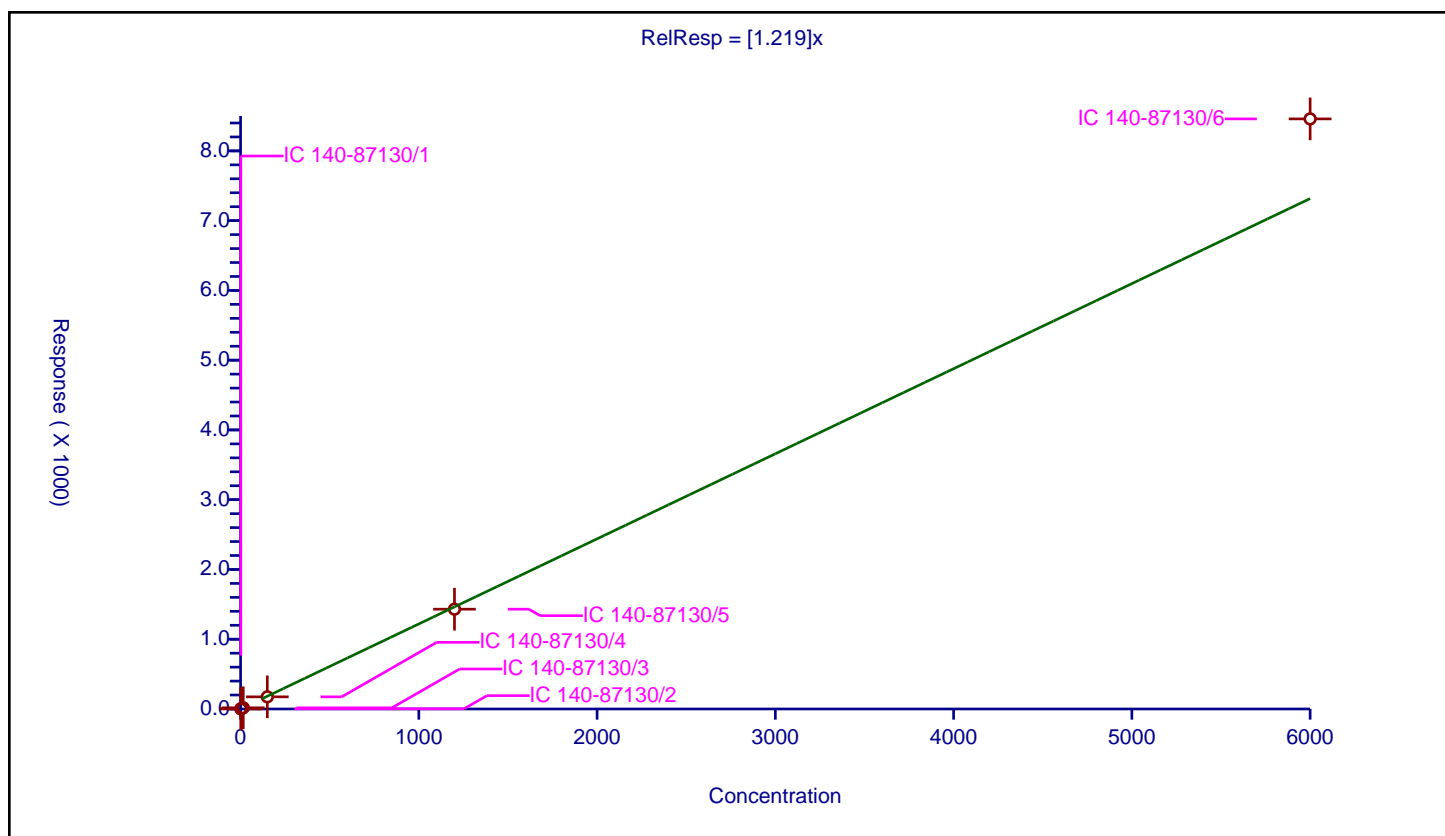
/ PCB-62

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.866558	100.0	10352263.0	1.244372	Y
2	IC 140-87130/2	3.0	3.532332	100.0	9378026.0	1.177444	Y
3	IC 140-87130/3	15.0	16.979104	100.0	9411321.0	1.13194	Y
4	IC 140-87130/4	150.0	174.121842	100.0	9689577.0	1.160812	Y
5	IC 140-87130/5	1200.0	1430.71416	100.0	10335461.0	1.192262	Y
6	IC 140-87130/6	6000.0	8458.708198	100.0	11264701.0	1.409785	Y



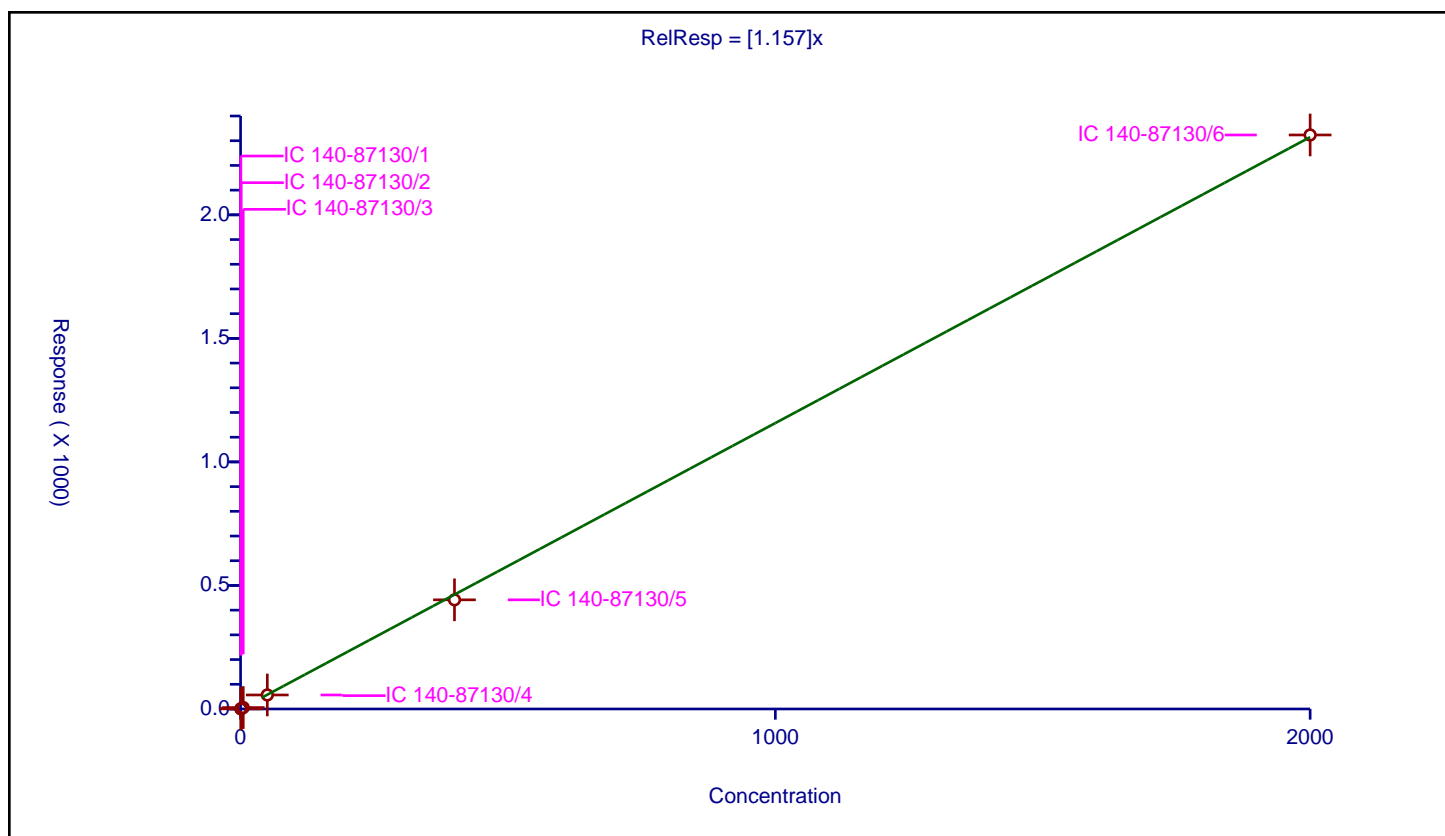
/ PCB-63

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.586538	100.0	10352263.0	1.173077	Y
2	IC 140-87130/2	1.0	1.21211	100.0	9378026.0	1.21211	Y
3	IC 140-87130/3	5.0	5.788412	100.0	9411321.0	1.157682	Y
4	IC 140-87130/4	50.0	56.746657	100.0	9689577.0	1.134933	Y
5	IC 140-87130/5	400.0	441.810288	100.0	10335461.0	1.104526	Y
6	IC 140-87130/6	2000.0	2323.277031	100.0	11264701.0	1.161639	Y



Calibration

/ PCB-64

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

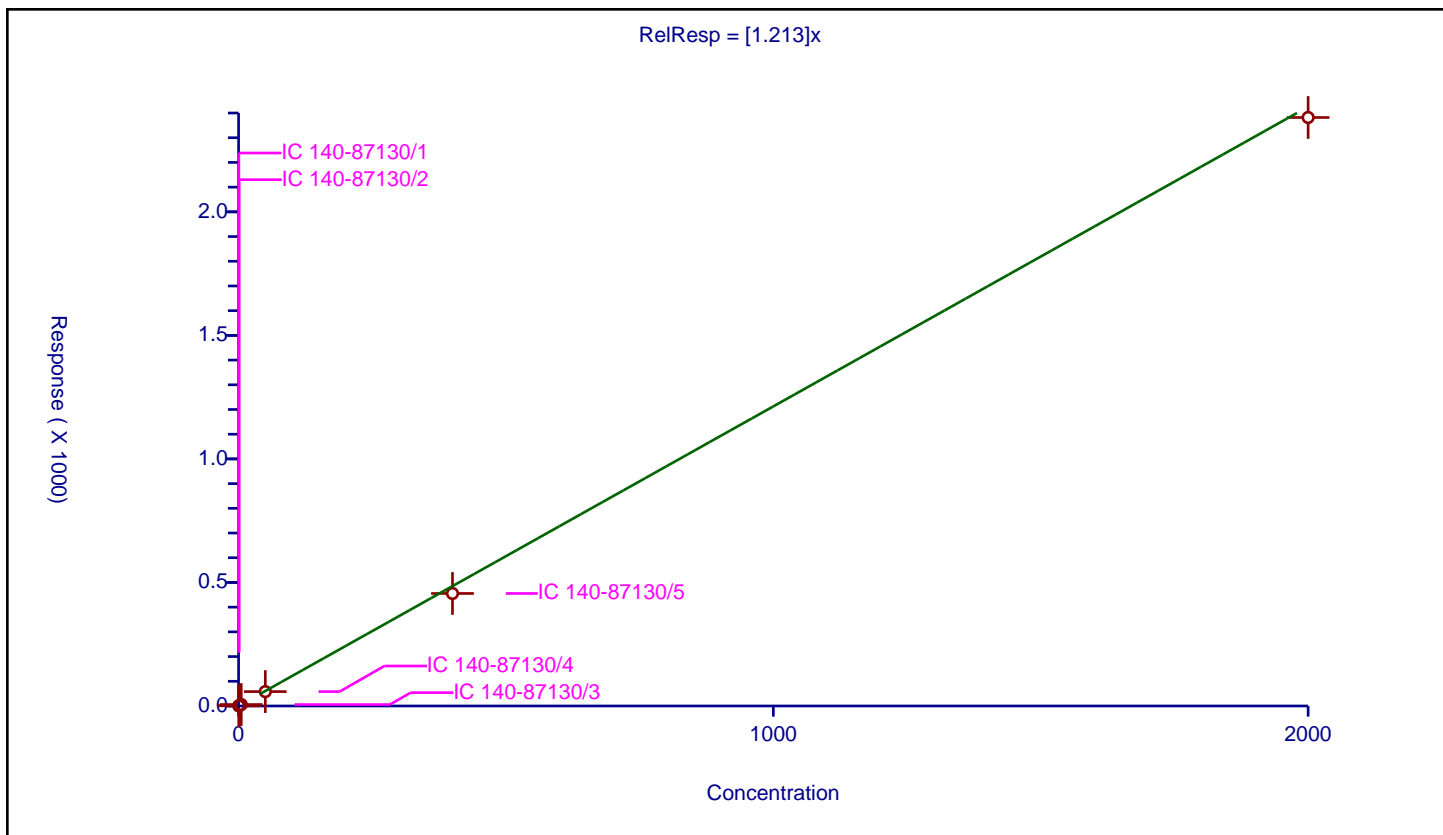
Curve Coefficients

Intercept: 0
 Slope: 1.213

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.660213	100.0	10352263.0	1.320426	Y
2	IC 140-87130/2	1.0	1.293726	100.0	9378026.0	1.293726	Y
3	IC 140-87130/3	5.0	5.840423	100.0	9411321.0	1.168085	Y
4	IC 140-87130/4	50.0	58.207061	100.0	9689577.0	1.164141	Y
5	IC 140-87130/5	400.0	455.392556	100.0	10335461.0	1.138481	Y
6	IC 140-87130/6	2000.0	2381.885866	100.0	11264701.0	1.190943	Y



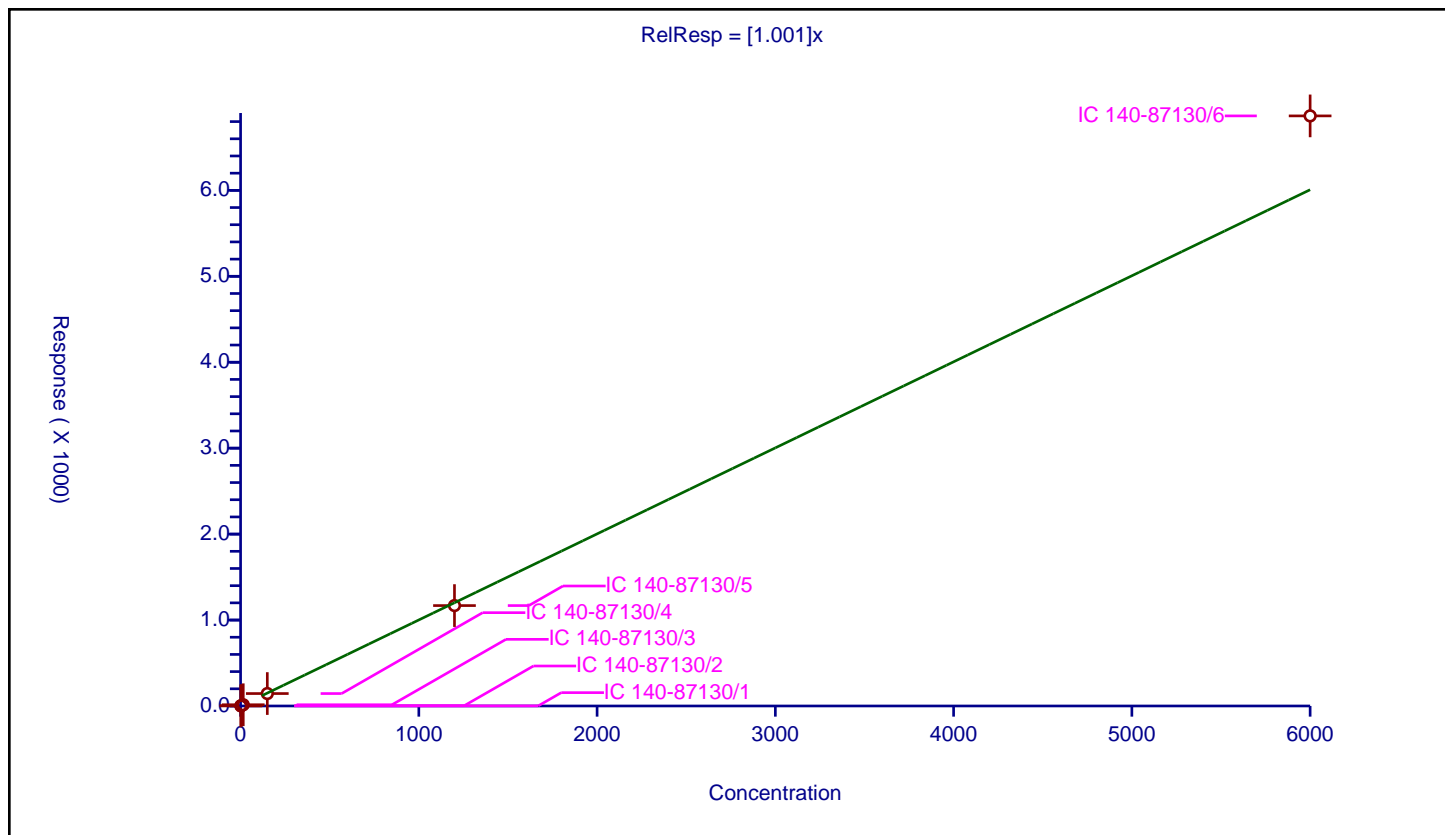
/ PCB-65

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.477822	100.0	10352263.0	0.985215	Y
2	IC 140-87130/2	3.0	2.962852	100.0	9378026.0	0.987617	Y
3	IC 140-87130/3	15.0	14.283308	100.0	9411321.0	0.952221	Y
4	IC 140-87130/4	150.0	144.622474	100.0	9689577.0	0.96415	Y
5	IC 140-87130/5	1200.0	1168.291526	100.0	10335461.0	0.973576	Y
6	IC 140-87130/6	6000.0	6866.617871	100.0	11264701.0	1.144436	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

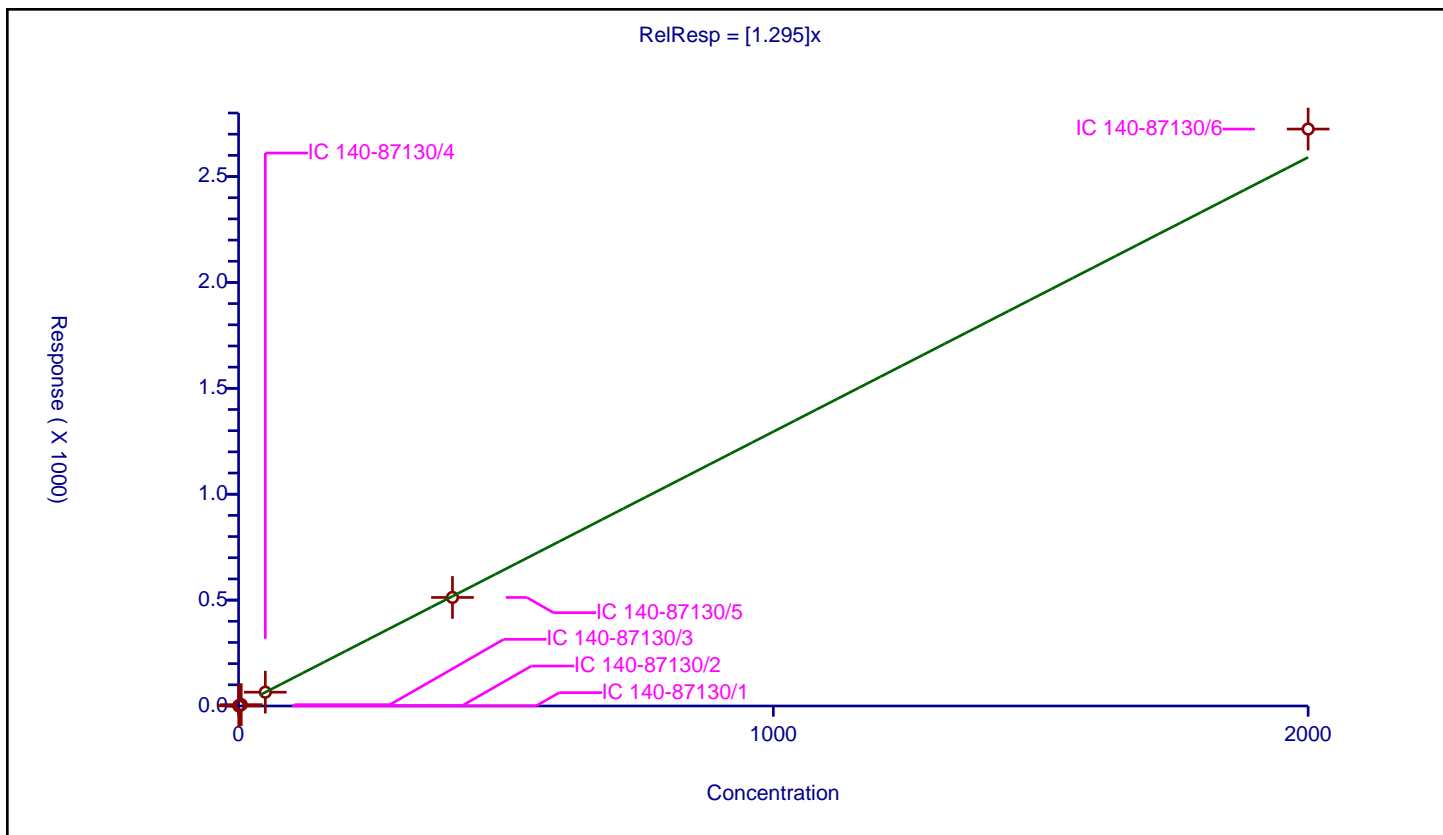
Curve Coefficients

Intercept: 0
Slope: 1.295

Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.639464	100.0	10352263.0	1.278928	Y
2	IC 140-87130/2	1.0	1.269617	100.0	9378026.0	1.269617	Y
3	IC 140-87130/3	5.0	6.385852	100.0	9411321.0	1.27717	Y
4	IC 140-87130/4	50.0	65.144454	100.0	9689577.0	1.302889	Y
5	IC 140-87130/5	400.0	512.613835	100.0	10335461.0	1.281535	Y
6	IC 140-87130/6	2000.0	2724.238389	100.0	11264701.0	1.362119	Y



Calibration

/ PCB-67

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

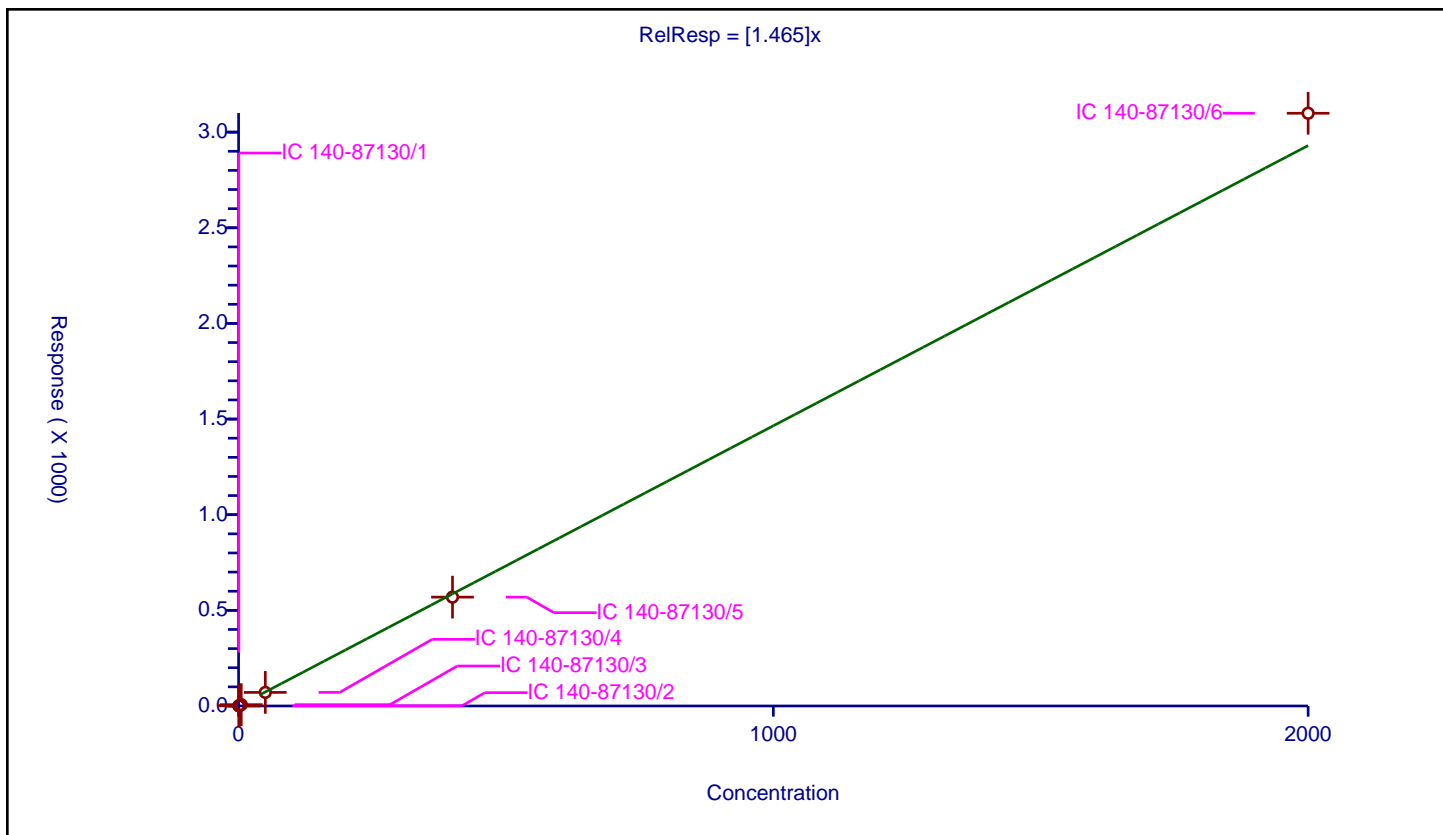
Curve Coefficients

Intercept: 0
 Slope: 1.465

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.76959	100.0	10352263.0	1.53918	Y
2	IC 140-87130/2	1.0	1.450231	100.0	9378026.0	1.450231	Y
3	IC 140-87130/3	5.0	7.044229	100.0	9411321.0	1.408846	Y
4	IC 140-87130/4	50.0	70.96219	100.0	9689577.0	1.419244	Y
5	IC 140-87130/5	400.0	569.077403	100.0	10335461.0	1.422694	Y
6	IC 140-87130/6	2000.0	3098.733362	100.0	11264701.0	1.549367	Y



Calibration

/ PCB-68

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

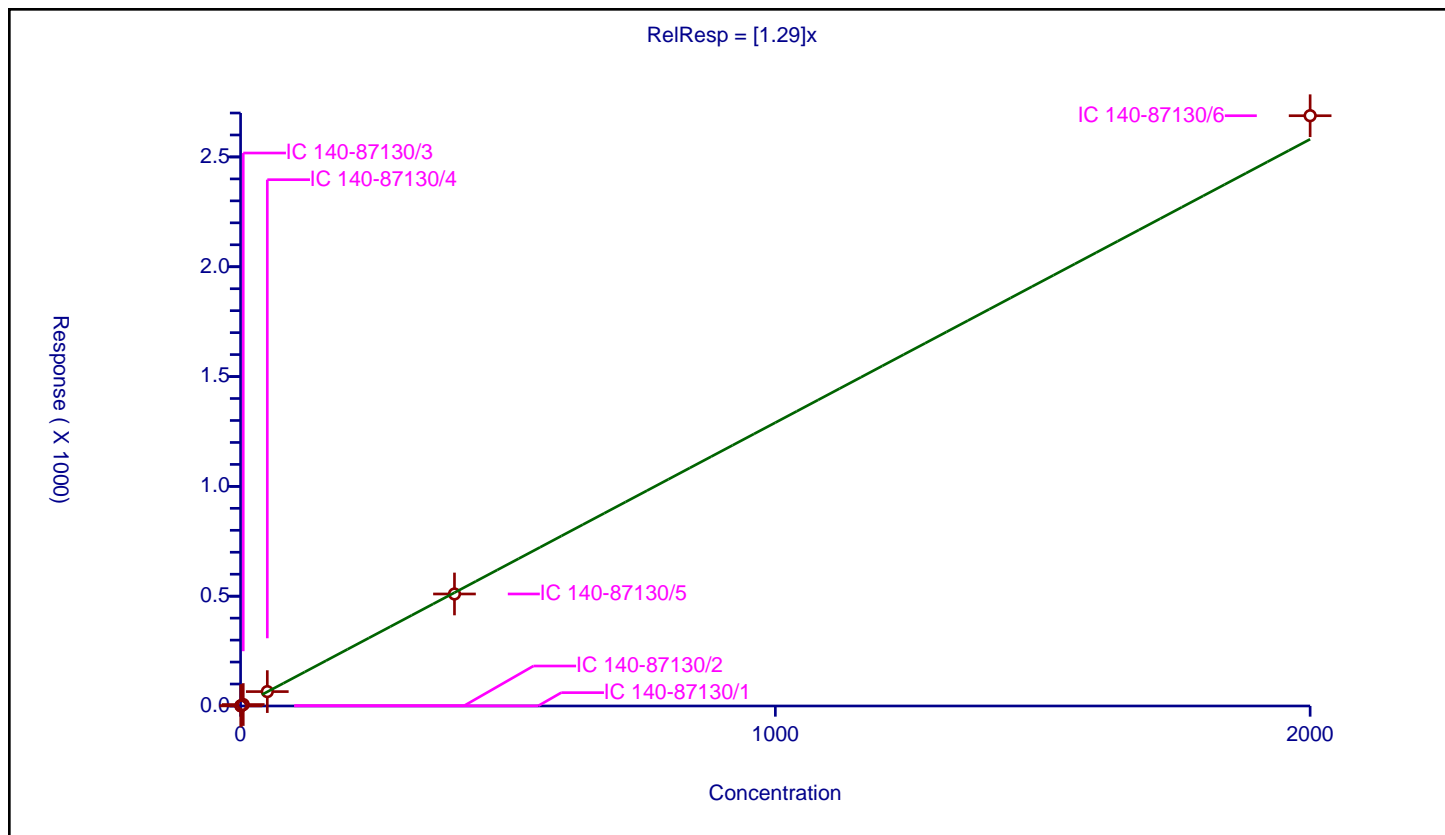
Curve Coefficients

Intercept: 0
 Slope: 1.29

Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.606167	100.0	10352263.0	1.212334	Y
2	IC 140-87130/2	1.0	1.286401	100.0	9378026.0	1.286401	Y
3	IC 140-87130/3	5.0	6.575751	100.0	9411321.0	1.31515	Y
4	IC 140-87130/4	50.0	65.452207	100.0	9689577.0	1.309044	Y
5	IC 140-87130/5	400.0	510.038391	100.0	10335461.0	1.275096	Y
6	IC 140-87130/6	2000.0	2687.75118	100.0	11264701.0	1.343876	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

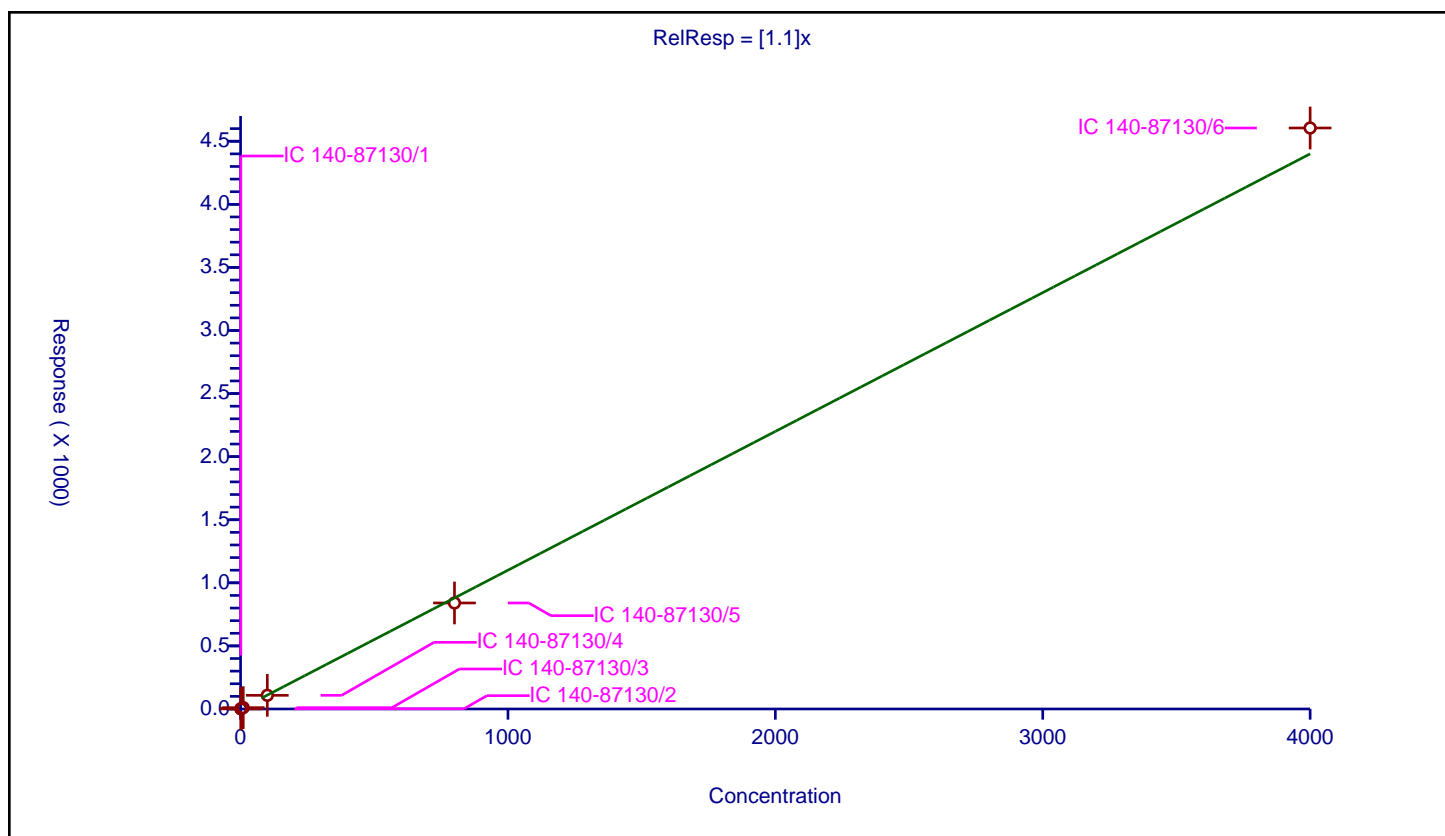
Curve Coefficients

Intercept: 0
Slope: 1.1

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.173569	100.0	10352263.0	1.173569	Y
2	IC 140-87130/2	2.0	2.152852	100.0	9378026.0	1.076426	Y
3	IC 140-87130/3	10.0	10.656952	100.0	9411321.0	1.065695	Y
4	IC 140-87130/4	100.0	108.268596	100.0	9689577.0	1.082686	Y
5	IC 140-87130/5	800.0	840.297438	100.0	10335461.0	1.050372	Y
6	IC 140-87130/6	4000.0	4605.085719	100.0	11264701.0	1.151271	Y



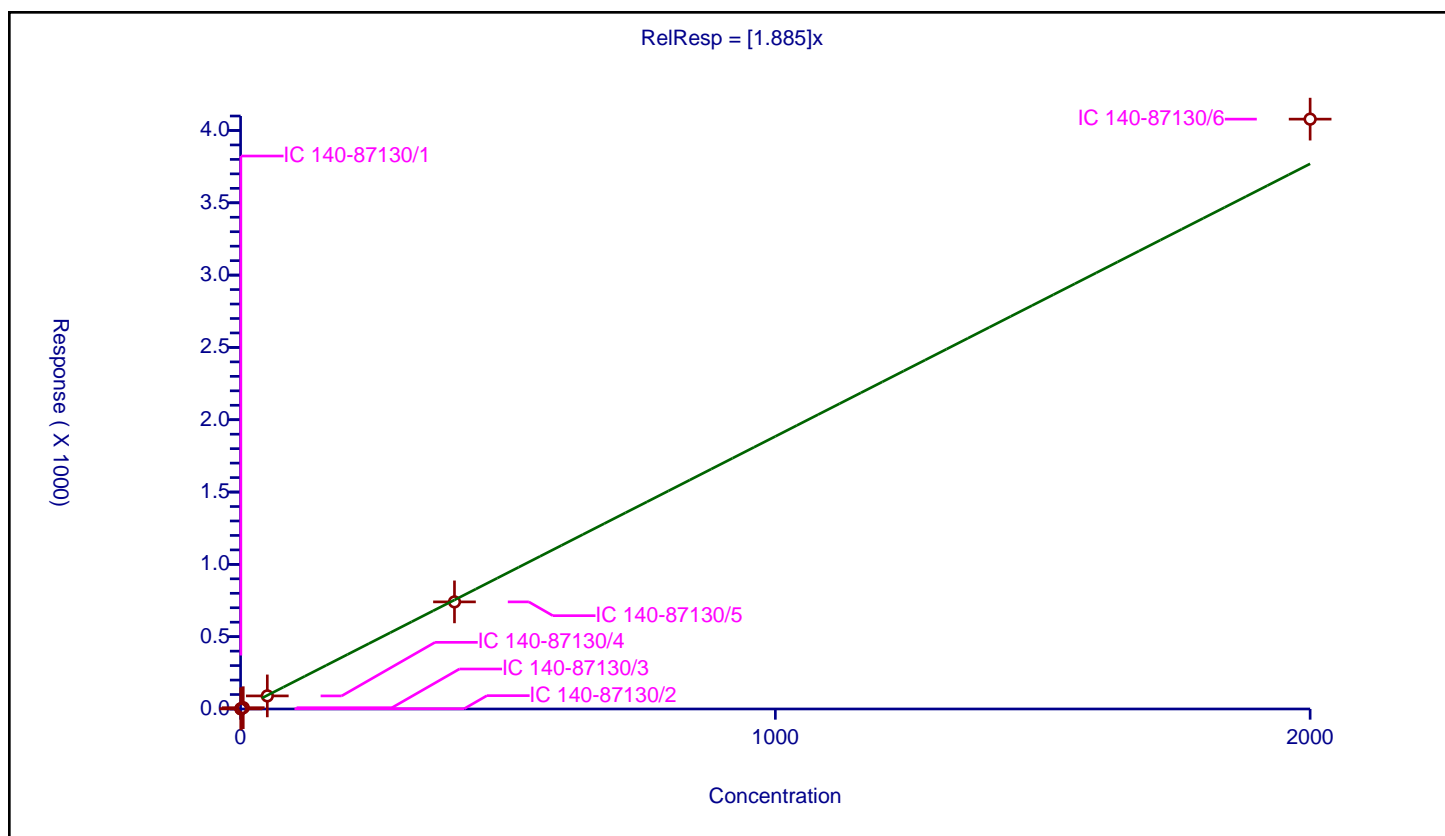
/ PCB-7

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.984957	100.0	5904521.0	1.969914	Y
2	IC 140-87130/2	1.0	1.833443	100.0	5442766.0	1.833443	Y
3	IC 140-87130/3	5.0	9.032736	100.0	5279032.0	1.806547	Y
4	IC 140-87130/4	50.0	90.425639	100.0	5474214.0	1.808513	Y
5	IC 140-87130/5	400.0	740.476153	100.0	5561618.0	1.85119	Y
6	IC 140-87130/6	2000.0	4078.342309	100.0	5672202.0	2.039171	Y



Calibration

/ PCB-70

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

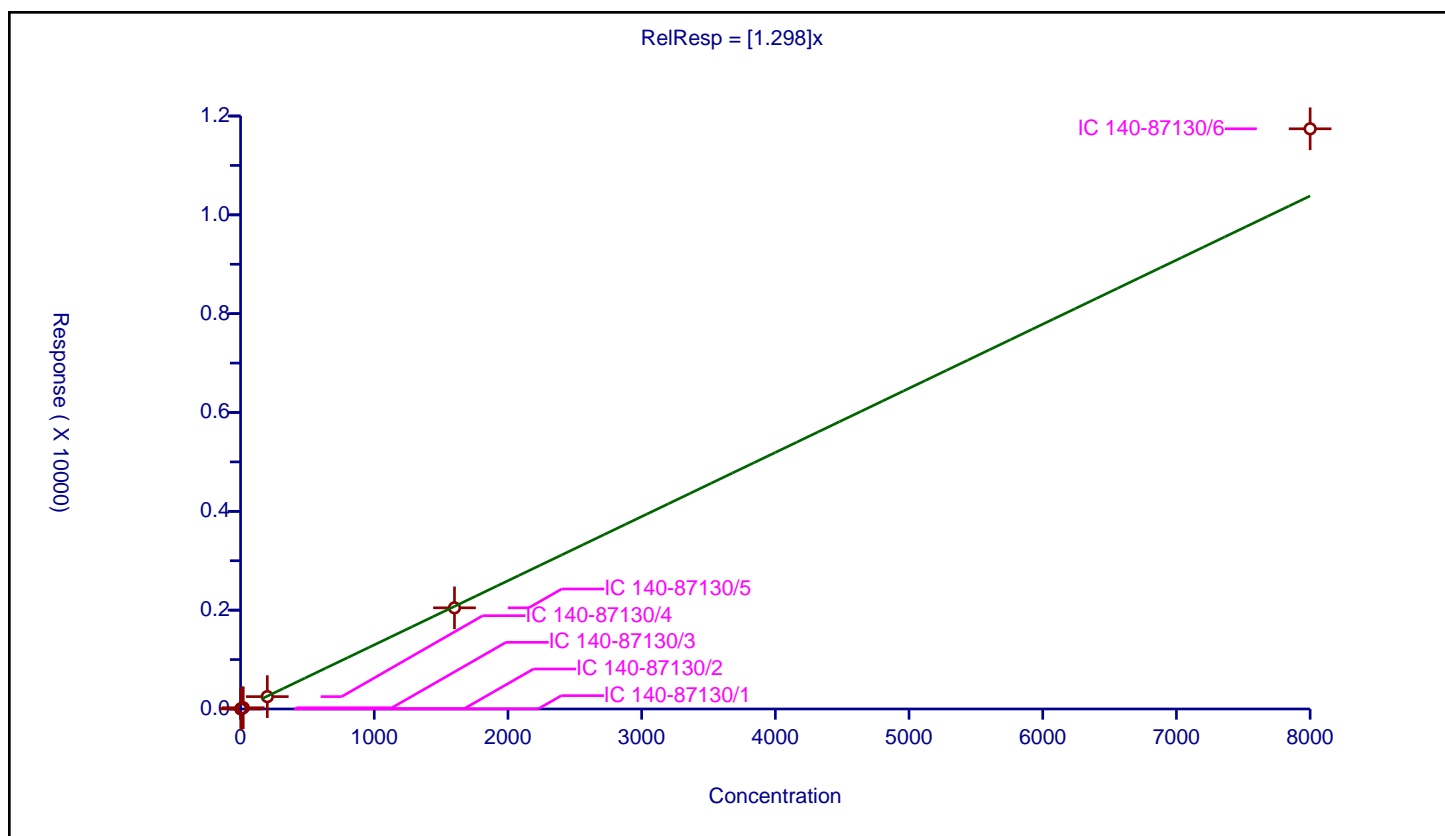
Curve Coefficients

Intercept: 0
Slope: 1.298

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



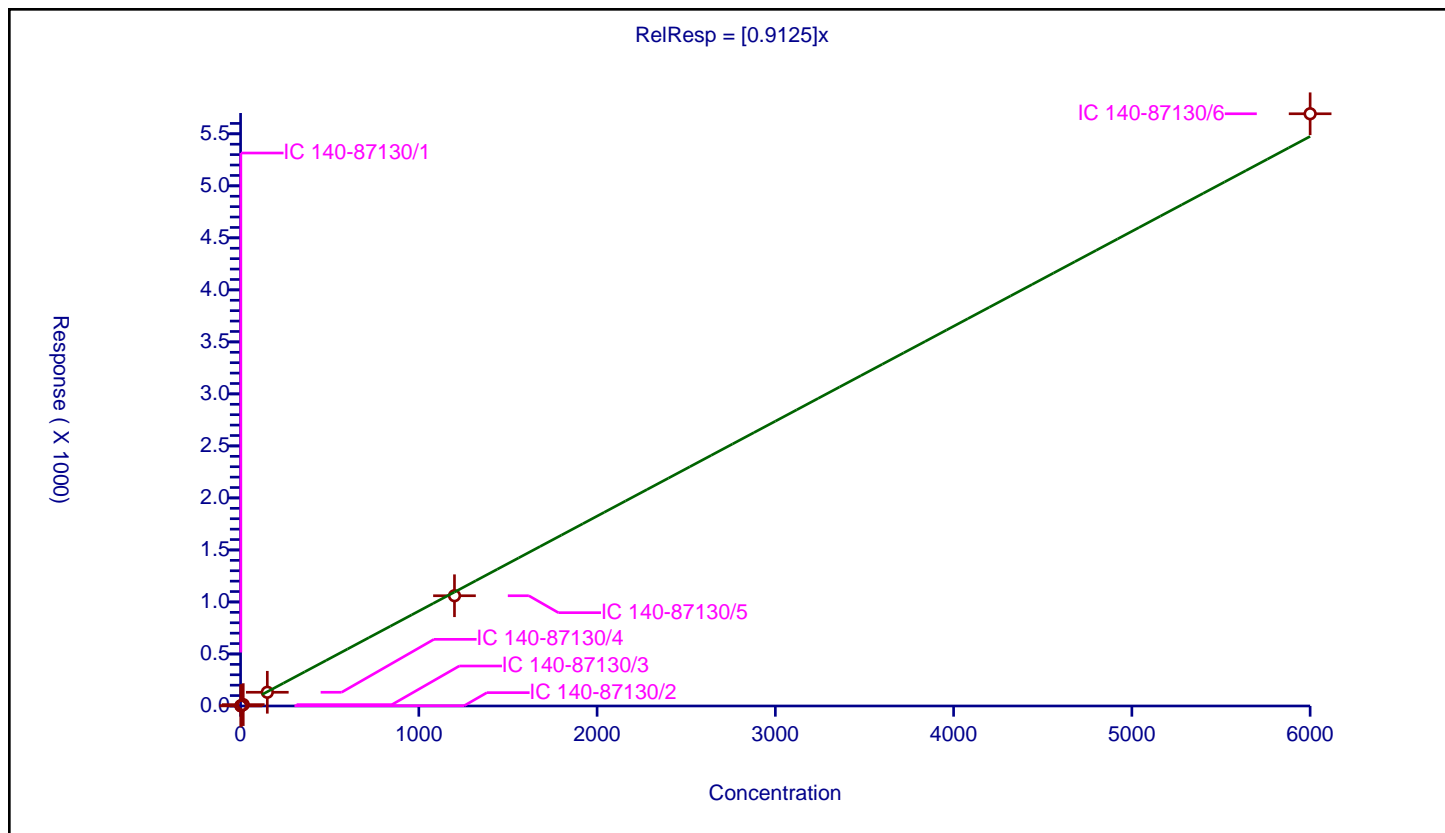
/ PCB-71

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.47845	100.0	10352263.0	0.985633	Y
2	IC 140-87130/2	3.0	2.69336	100.0	9378026.0	0.897787	Y
3	IC 140-87130/3	15.0	13.208581	100.0	9411321.0	0.880572	Y
4	IC 140-87130/4	150.0	131.86716	100.0	9689577.0	0.879114	Y
5	IC 140-87130/5	1200.0	1059.882622	100.0	10335461.0	0.883236	Y
6	IC 140-87130/6	6000.0	5692.828269	100.0	11264701.0	0.948805	Y



Calibration

/ PCB-72

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

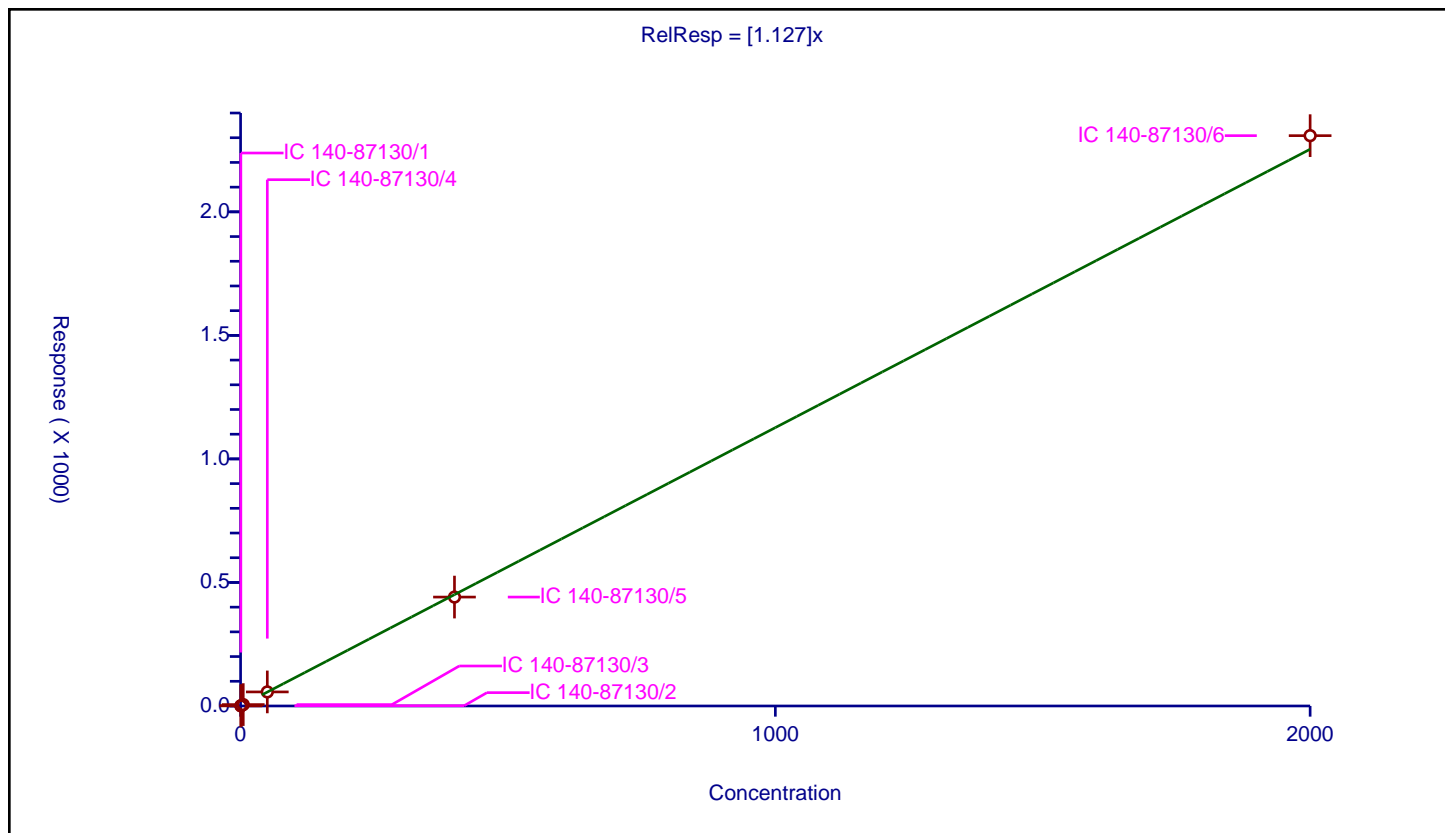
Curve Coefficients

Intercept: 0
 Slope: 1.127

Error Coefficients

Relative Standard Deviation: 2.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.573015	100.0	10352263.0	1.14603	Y
2	IC 140-87130/2	1.0	1.09618	100.0	9378026.0	1.09618	Y
3	IC 140-87130/3	5.0	5.619275	100.0	9411321.0	1.123855	Y
4	IC 140-87130/4	50.0	56.900337	100.0	9689577.0	1.138007	Y
5	IC 140-87130/5	400.0	440.810613	100.0	10335461.0	1.102027	Y
6	IC 140-87130/6	2000.0	2308.418555	100.0	11264701.0	1.154209	Y



Calibration

/ PCB-73

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

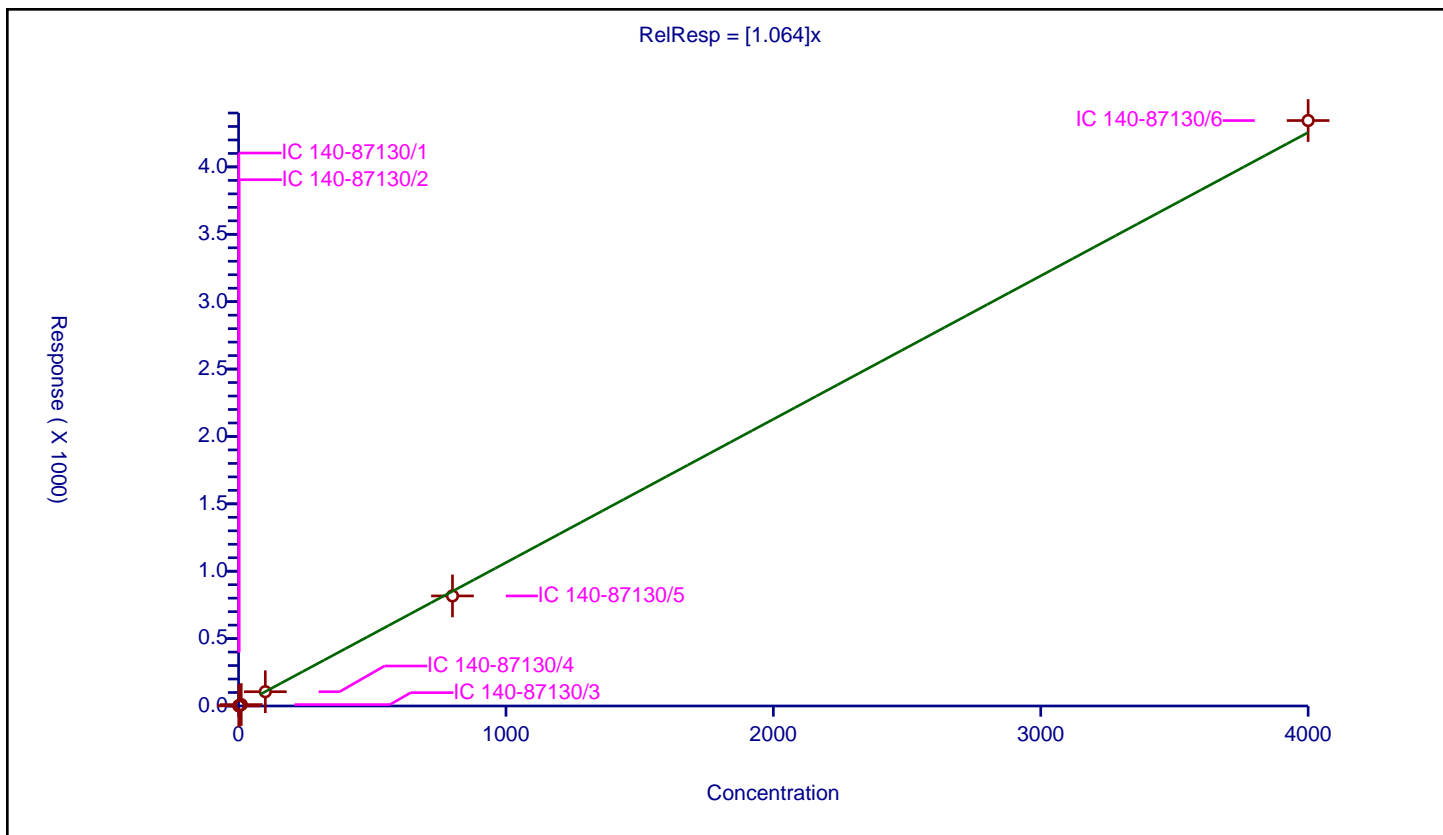
Curve Coefficients

Intercept: 0
 Slope: 1.064

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.113409	100.0	10352263.0	1.113409	Y
2	IC 140-87130/2	2.0	2.135076	100.0	9378026.0	1.067538	Y
3	IC 140-87130/3	10.0	10.359183	100.0	9411321.0	1.035918	Y
4	IC 140-87130/4	100.0	105.993234	100.0	9689577.0	1.059932	Y
5	IC 140-87130/5	800.0	816.641241	100.0	10335461.0	1.020802	Y
6	IC 140-87130/6	4000.0	4344.200454	100.0	11264701.0	1.08605	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

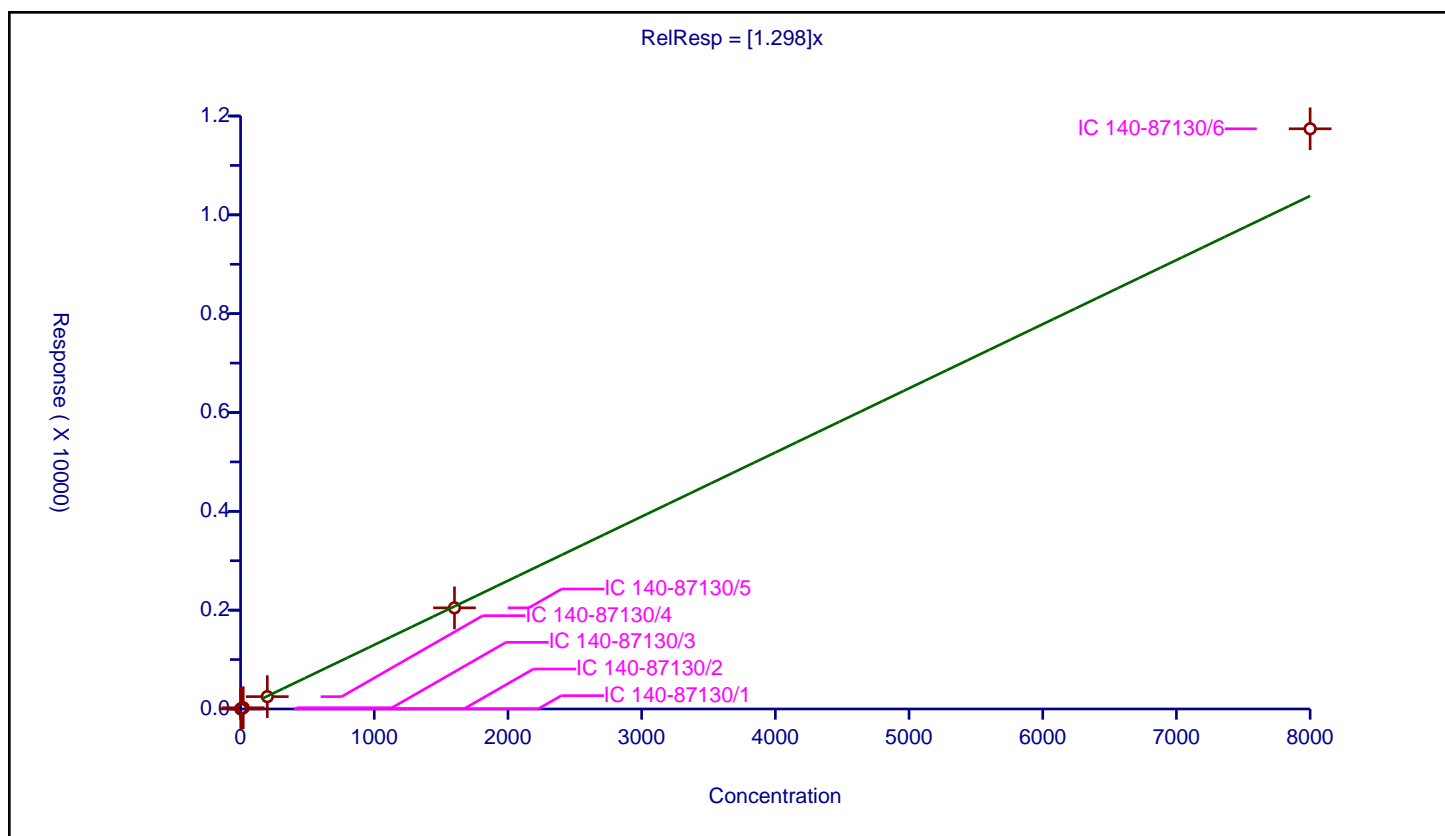
Curve Coefficients

Intercept: 0
Slope: 1.298

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



Calibration

/ PCB-75

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

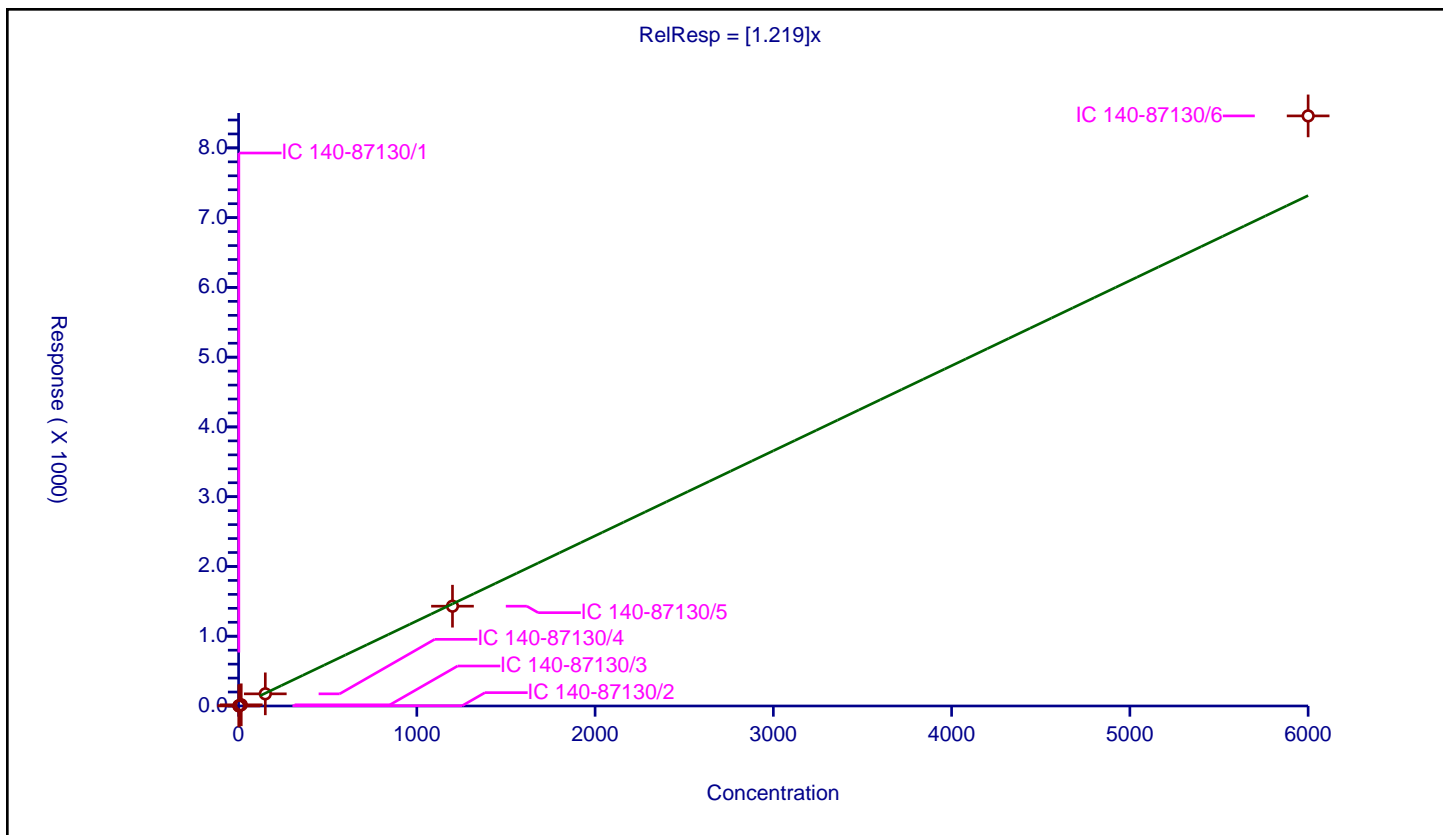
Curve Coefficients

Intercept: 0
 Slope: 1.219

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.866558	100.0	10352263.0	1.244372	Y
2	IC 140-87130/2	3.0	3.532332	100.0	9378026.0	1.177444	Y
3	IC 140-87130/3	15.0	16.979104	100.0	9411321.0	1.13194	Y
4	IC 140-87130/4	150.0	174.121842	100.0	9689577.0	1.160812	Y
5	IC 140-87130/5	1200.0	1430.71416	100.0	10335461.0	1.192262	Y
6	IC 140-87130/6	6000.0	8458.708198	100.0	11264701.0	1.409785	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

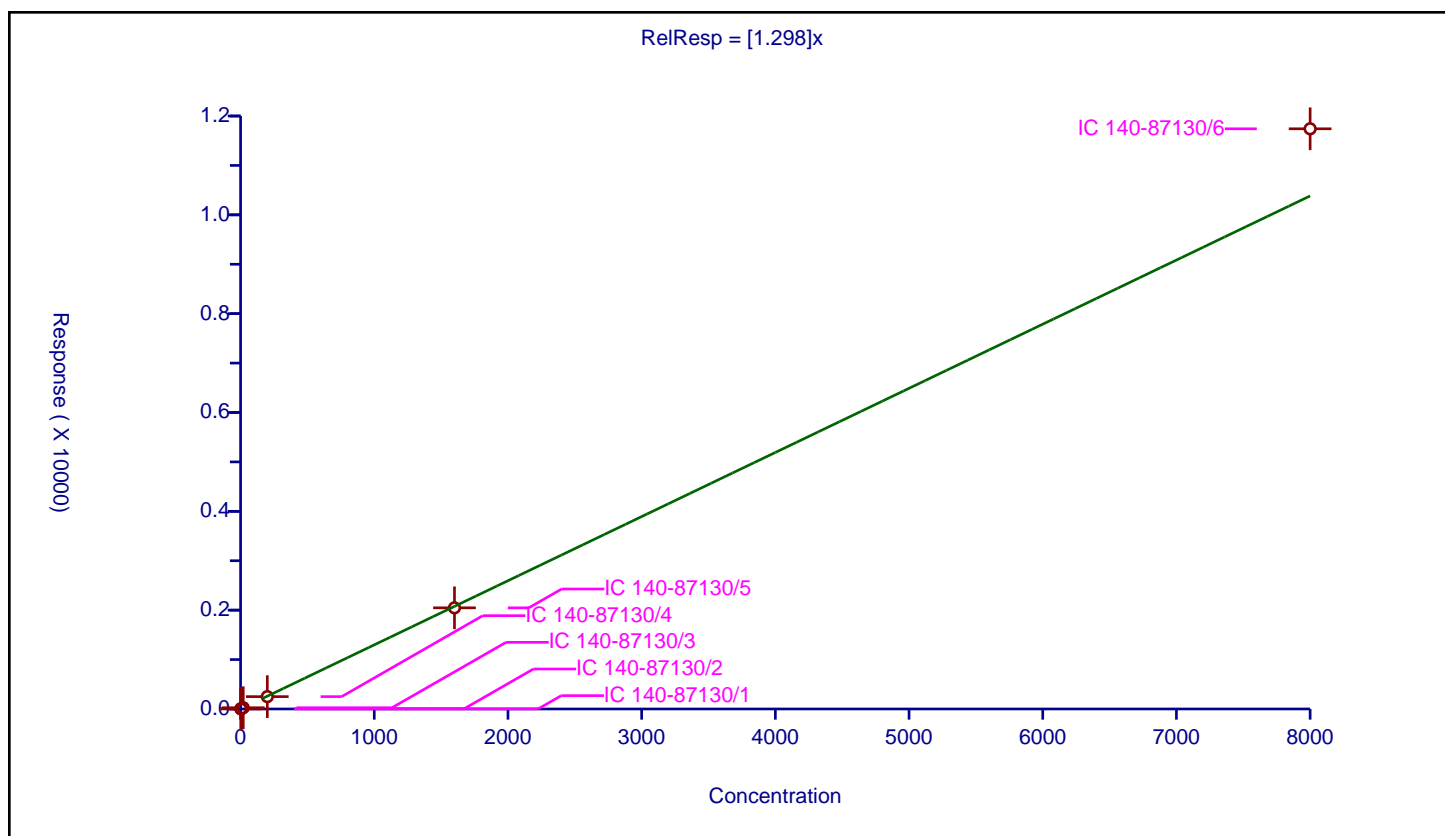
Curve Coefficients

Intercept: 0
Slope: 1.298

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



Calibration

/ PCB-77

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

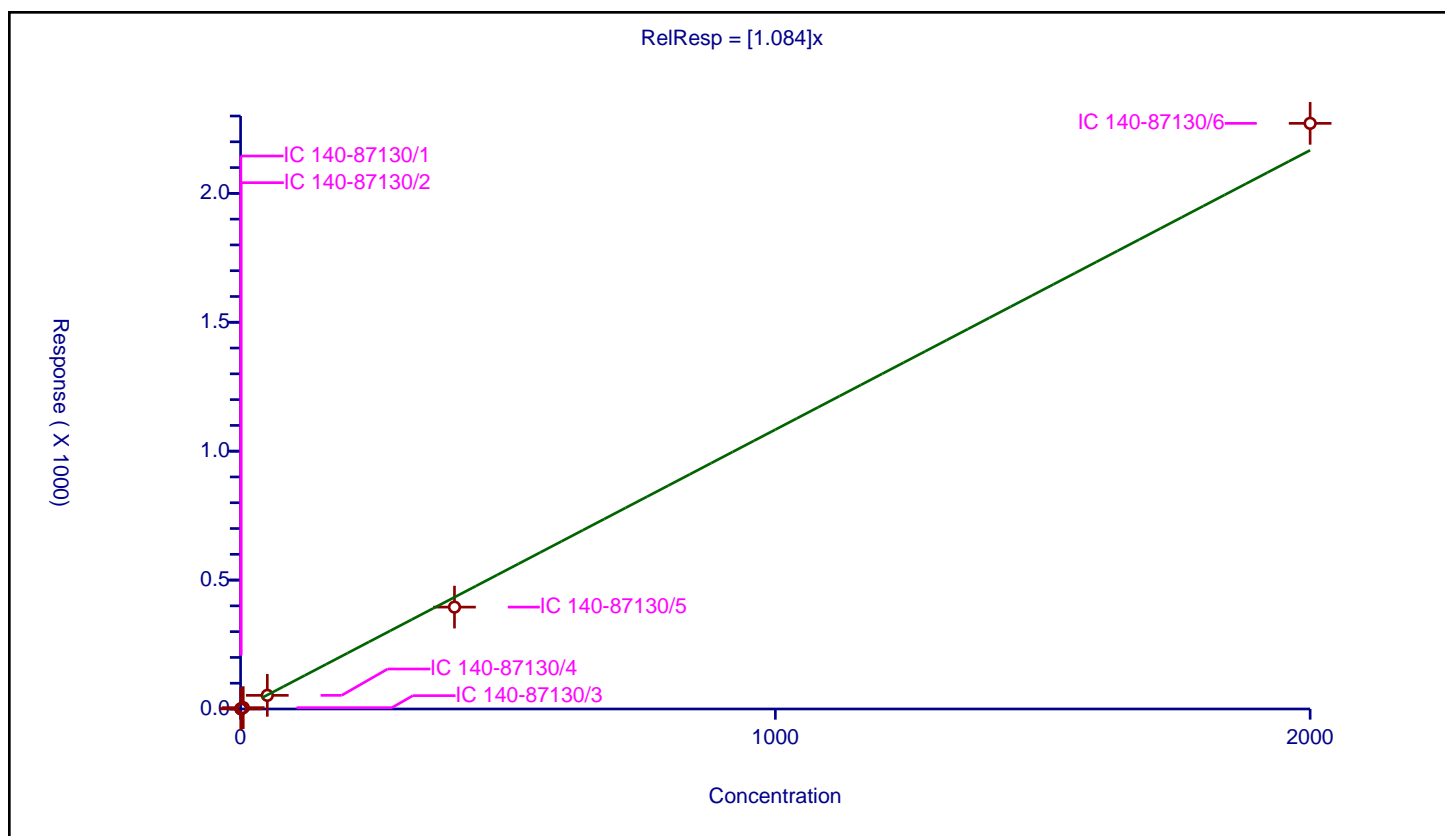
Curve Coefficients

Intercept: 0
 Slope: 1.084

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.584412	100.0	11078136.0	1.168825	Y
2	IC 140-87130/2	1.0	1.114915	100.0	9952597.0	1.114915	Y
3	IC 140-87130/3	5.0	5.182303	100.0	10036639.0	1.036461	Y
4	IC 140-87130/4	50.0	52.886461	100.0	10298891.0	1.057729	Y
5	IC 140-87130/5	400.0	395.129456	100.0	11450569.0	0.987824	Y
6	IC 140-87130/6	2000.0	2271.504911	100.0	11187391.0	1.135752	Y



Calibration

/ PCB-78

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

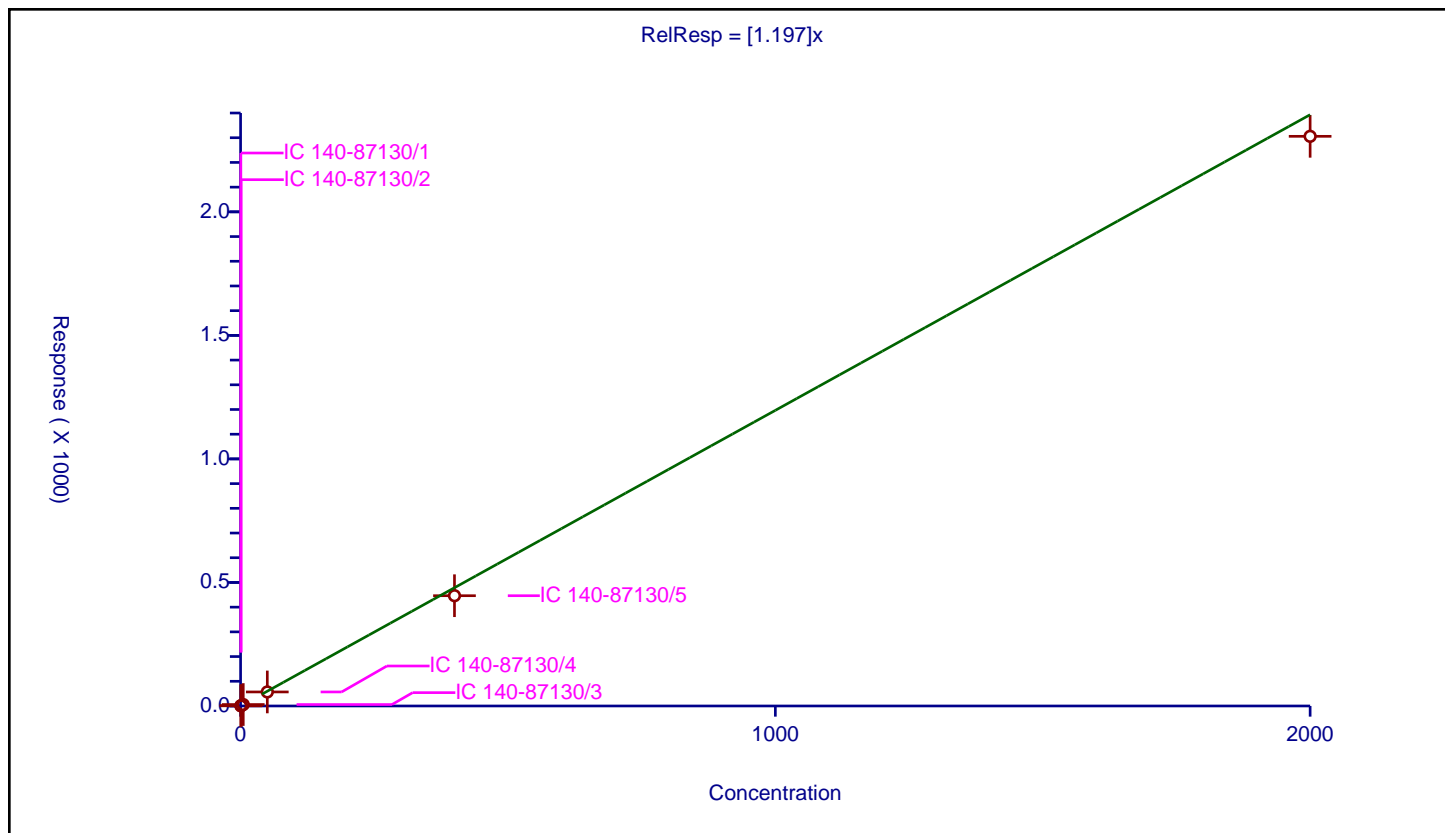
Curve Coefficients

Intercept: 0
 Slope: 1.197

Error Coefficients

Relative Standard Deviation: 7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.68414	100.0	10352263.0	1.368281	Y
2	IC 140-87130/2	1.0	1.233095	100.0	9378026.0	1.233095	Y
3	IC 140-87130/3	5.0	5.863959	100.0	9411321.0	1.172792	Y
4	IC 140-87130/4	50.0	56.827187	100.0	9689577.0	1.136544	Y
5	IC 140-87130/5	400.0	446.394099	100.0	10335461.0	1.115985	Y
6	IC 140-87130/6	2000.0	2305.628964	100.0	11264701.0	1.152814	Y



Calibration

/ PCB-79

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

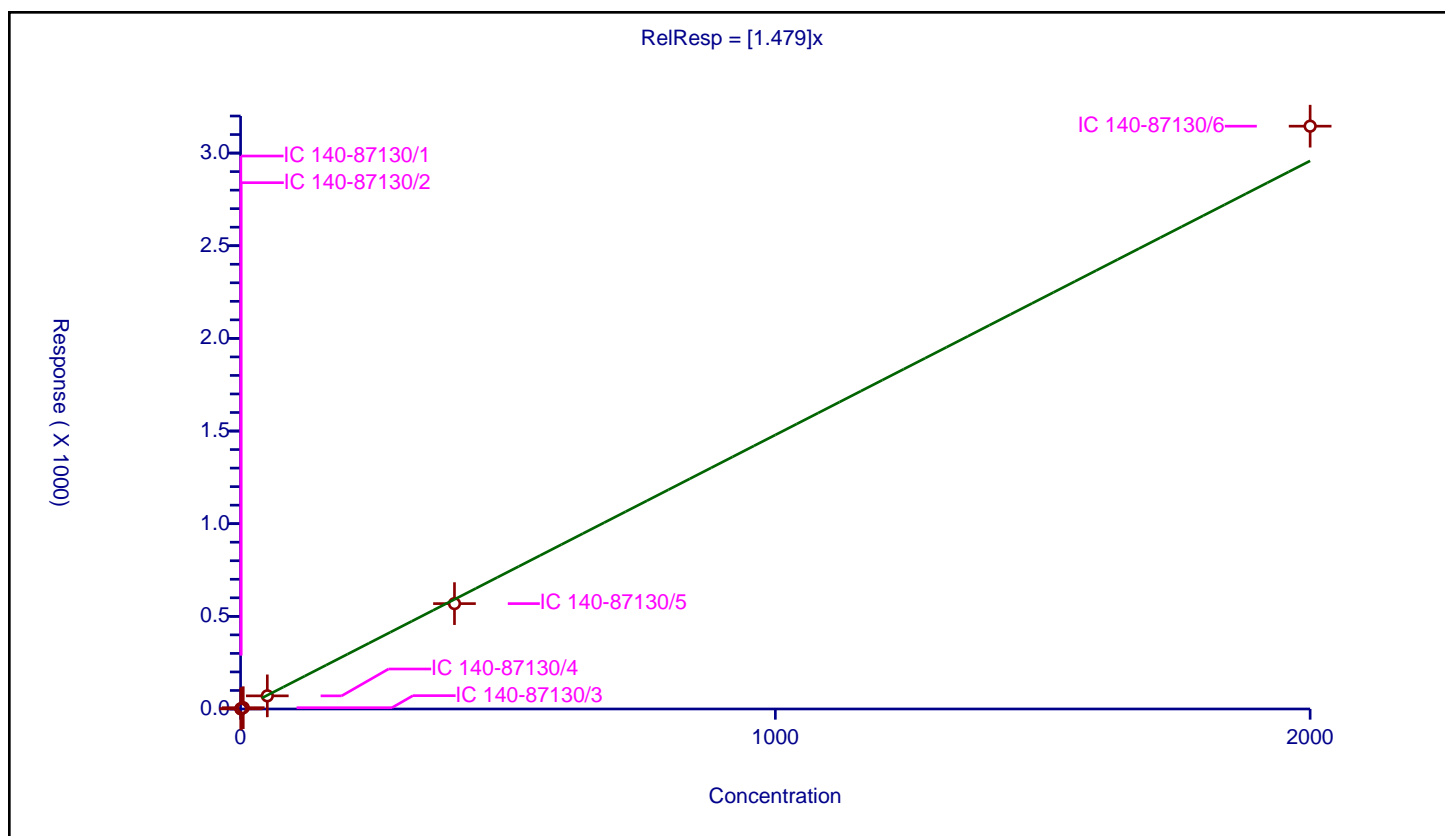
Curve Coefficients

Intercept: 0
Slope: 1.479

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.747614	100.0	10352263.0	1.495229	Y
2	IC 140-87130/2	1.0	1.574468	100.0	9378026.0	1.574468	Y
3	IC 140-87130/3	5.0	6.968533	100.0	9411321.0	1.393707	Y
4	IC 140-87130/4	50.0	70.814226	100.0	9689577.0	1.416285	Y
5	IC 140-87130/5	400.0	568.587033	100.0	10335461.0	1.421468	Y
6	IC 140-87130/6	2000.0	3145.18333	100.0	11264701.0	1.572592	Y



Calibration

/ PCB-79L

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

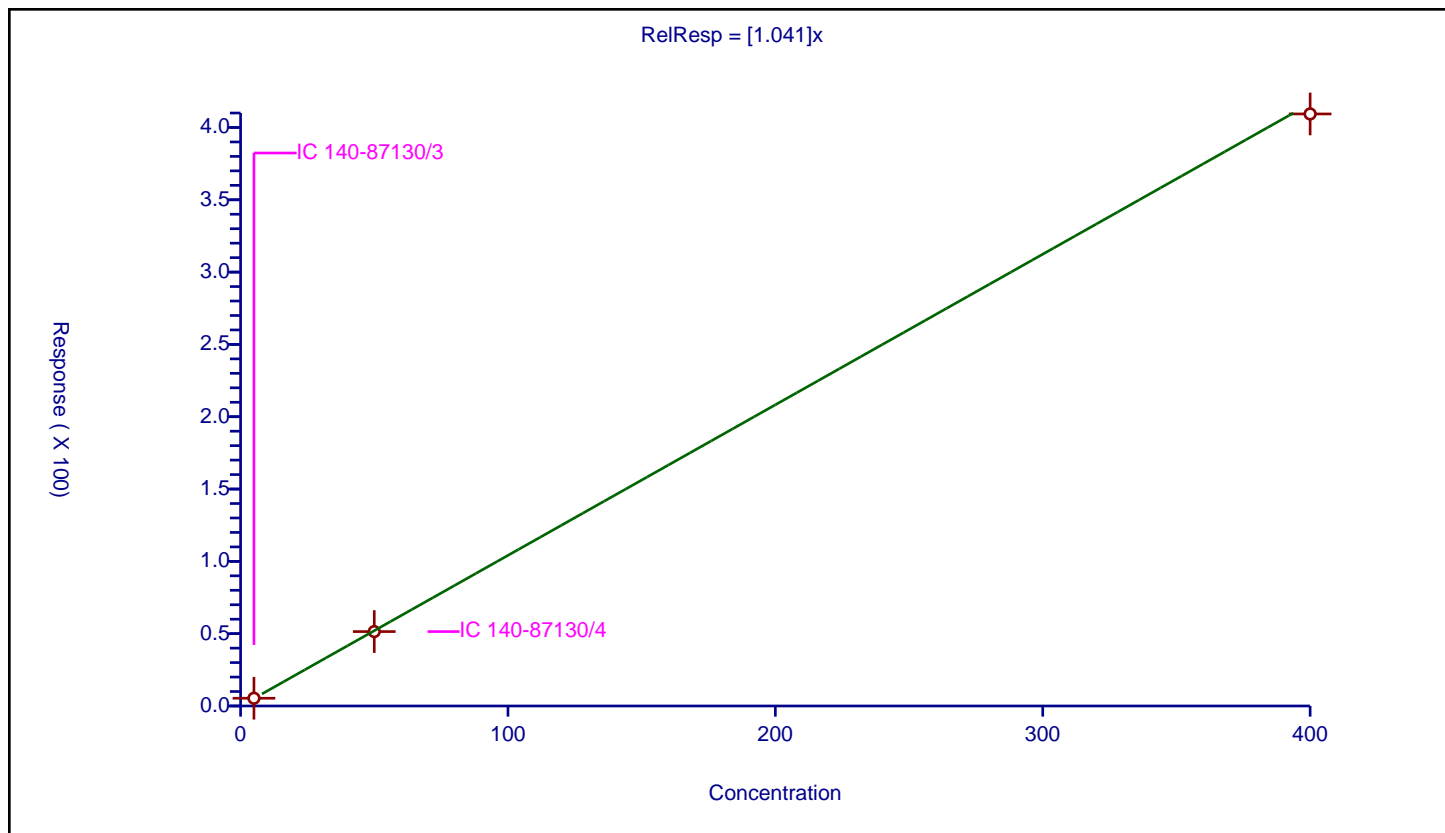
Curve Coefficients

Intercept: 0
 Slope: 1.041

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	5.355592	100.0	9411321.0	1.071118	Y
2	IC 140-87130/4	50.0	51.458056	100.0	9689577.0	1.029161	Y
3	IC 140-87130/5	400.0	409.362485	100.0	10335461.0	1.023406	Y



Calibration

/ PCB-8

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

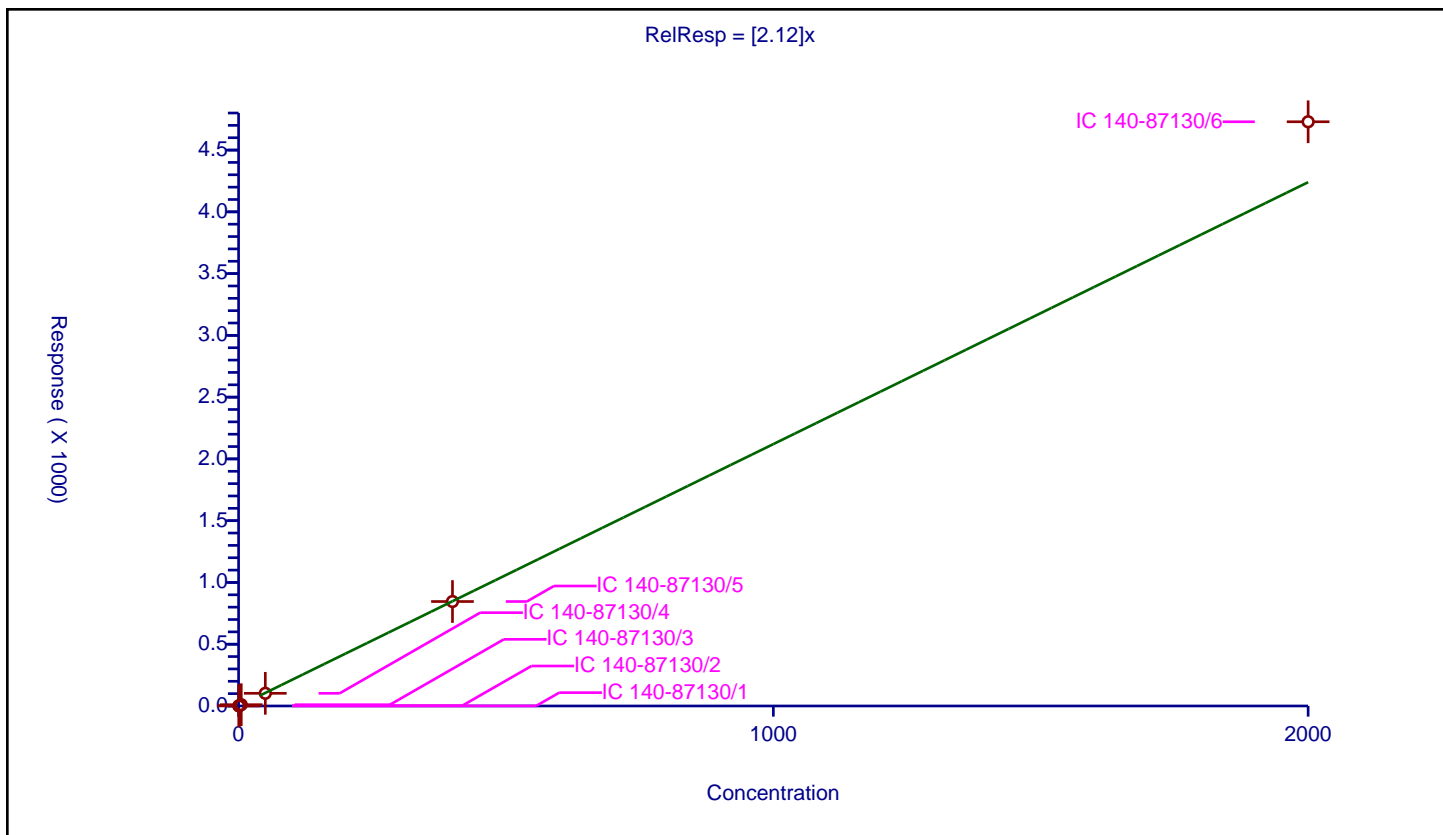
Curve Coefficients

Intercept: 0
Slope: 2.12

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	1.049653	100.0	5904521.0	2.099307	Y
2	IC 140-87130/2	1.0	1.993839	100.0	5442766.0	1.993839	Y
3	IC 140-87130/3	5.0	10.469003	100.0	5279032.0	2.093801	Y
4	IC 140-87130/4	50.0	102.692094	100.0	5474214.0	2.053842	Y
5	IC 140-87130/5	400.0	845.649881	100.0	5561618.0	2.114125	Y
6	IC 140-87130/6	2000.0	4729.113967	100.0	5672202.0	2.364557	Y



Calibration

/ PCB-80

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

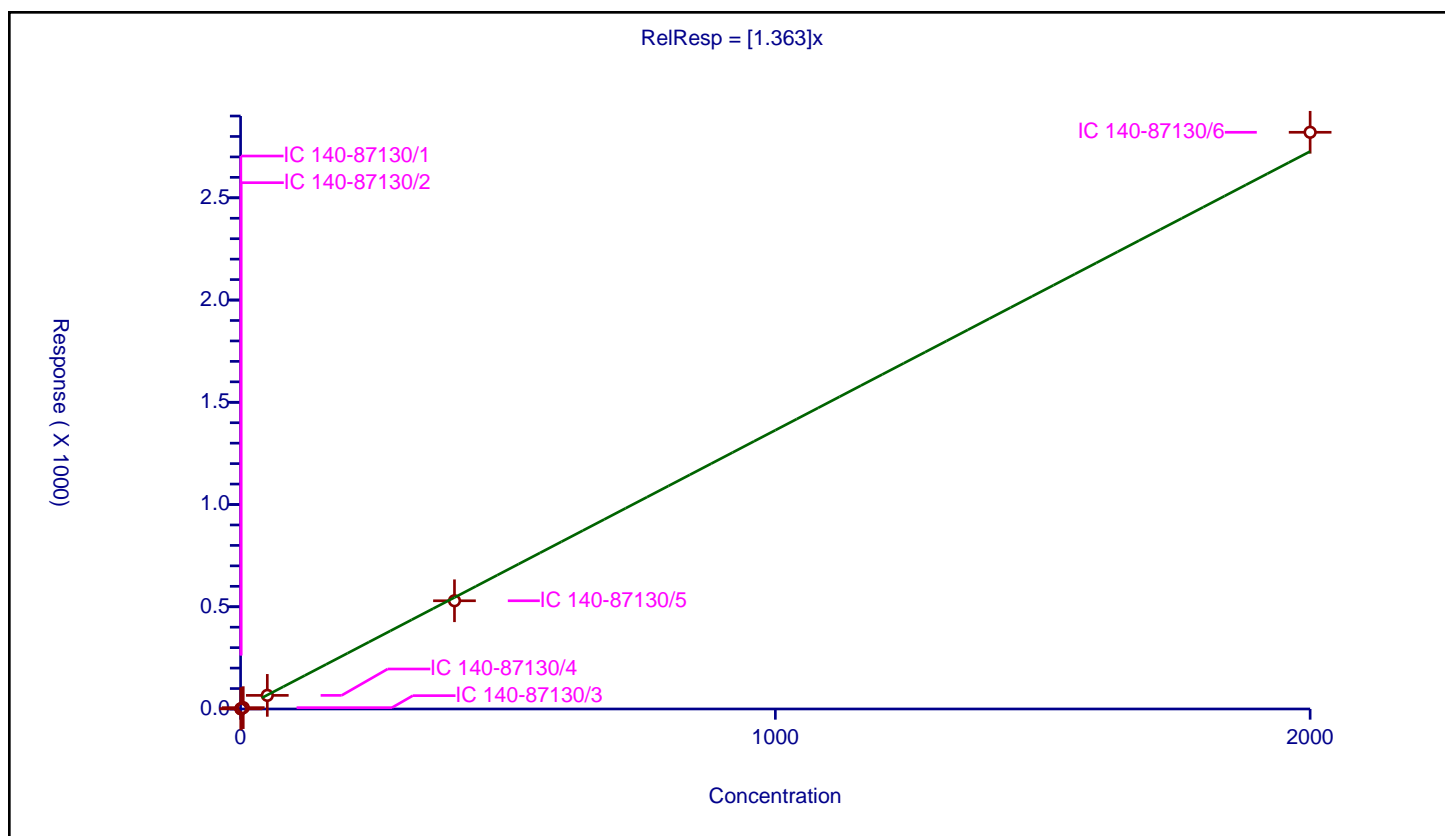
Curve Coefficients

Intercept: 0
 Slope: 1.363

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.717428	100.0	10352263.0	1.434855	Y
2	IC 140-87130/2	1.0	1.365874	100.0	9378026.0	1.365874	Y
3	IC 140-87130/3	5.0	6.57286	100.0	9411321.0	1.314572	Y
4	IC 140-87130/4	50.0	66.586498	100.0	9689577.0	1.33173	Y
5	IC 140-87130/5	400.0	529.284528	100.0	10335461.0	1.323211	Y
6	IC 140-87130/6	2000.0	2820.449358	100.0	11264701.0	1.410225	Y



Calibration

/ PCB-81

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

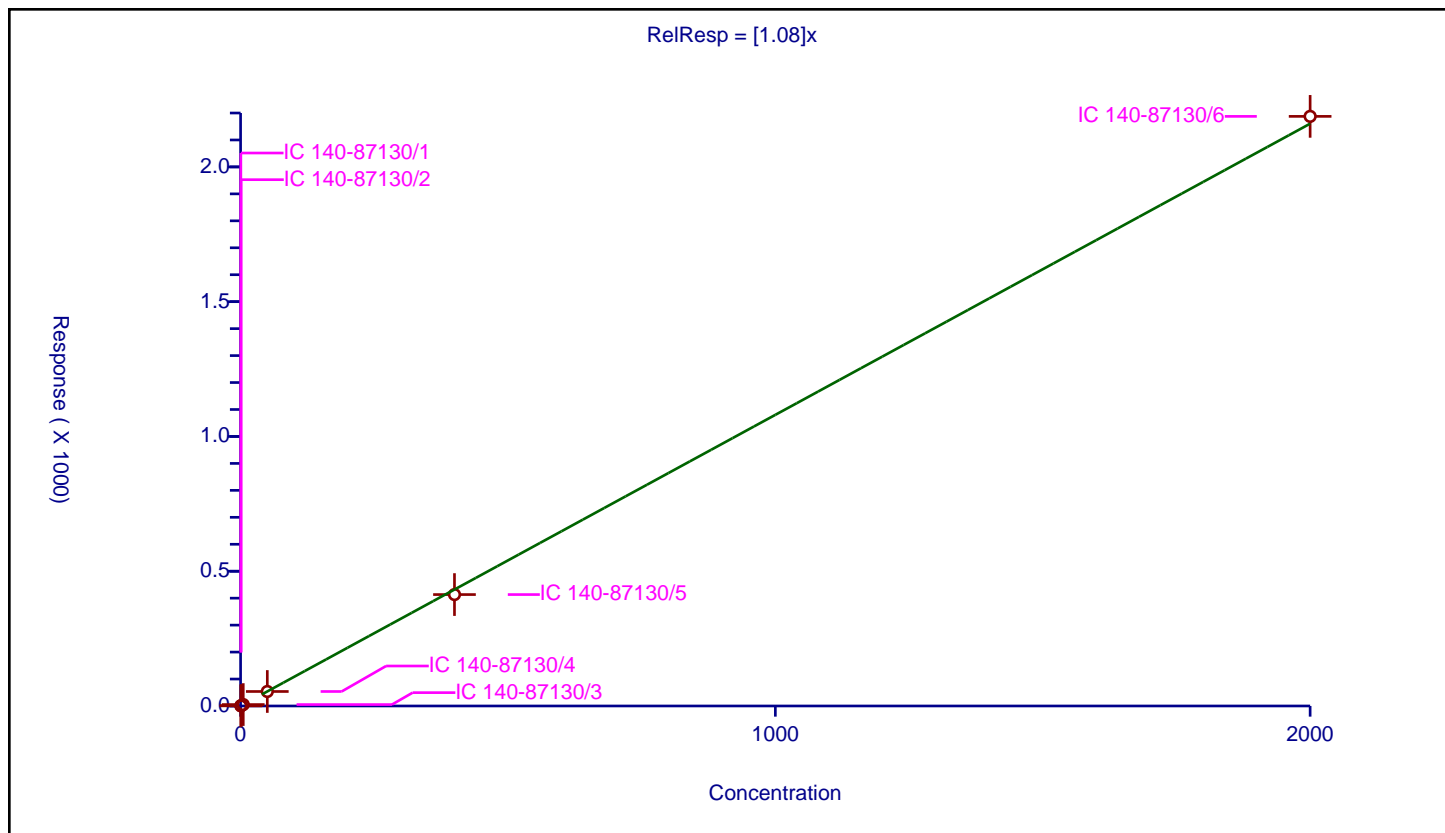
Curve Coefficients

Intercept: 0
Slope: 1.08

Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.559887	100.0	10352263.0	1.119774	Y
2	IC 140-87130/2	1.0	1.09602	100.0	9378026.0	1.09602	Y
3	IC 140-87130/3	5.0	5.308309	100.0	9411321.0	1.061662	Y
4	IC 140-87130/4	50.0	53.818067	100.0	9689577.0	1.076361	Y
5	IC 140-87130/5	400.0	413.444625	100.0	10335461.0	1.033612	Y
6	IC 140-87130/6	2000.0	2187.539341	100.0	11264701.0	1.09377	Y



Calibration

/ PCB-82

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

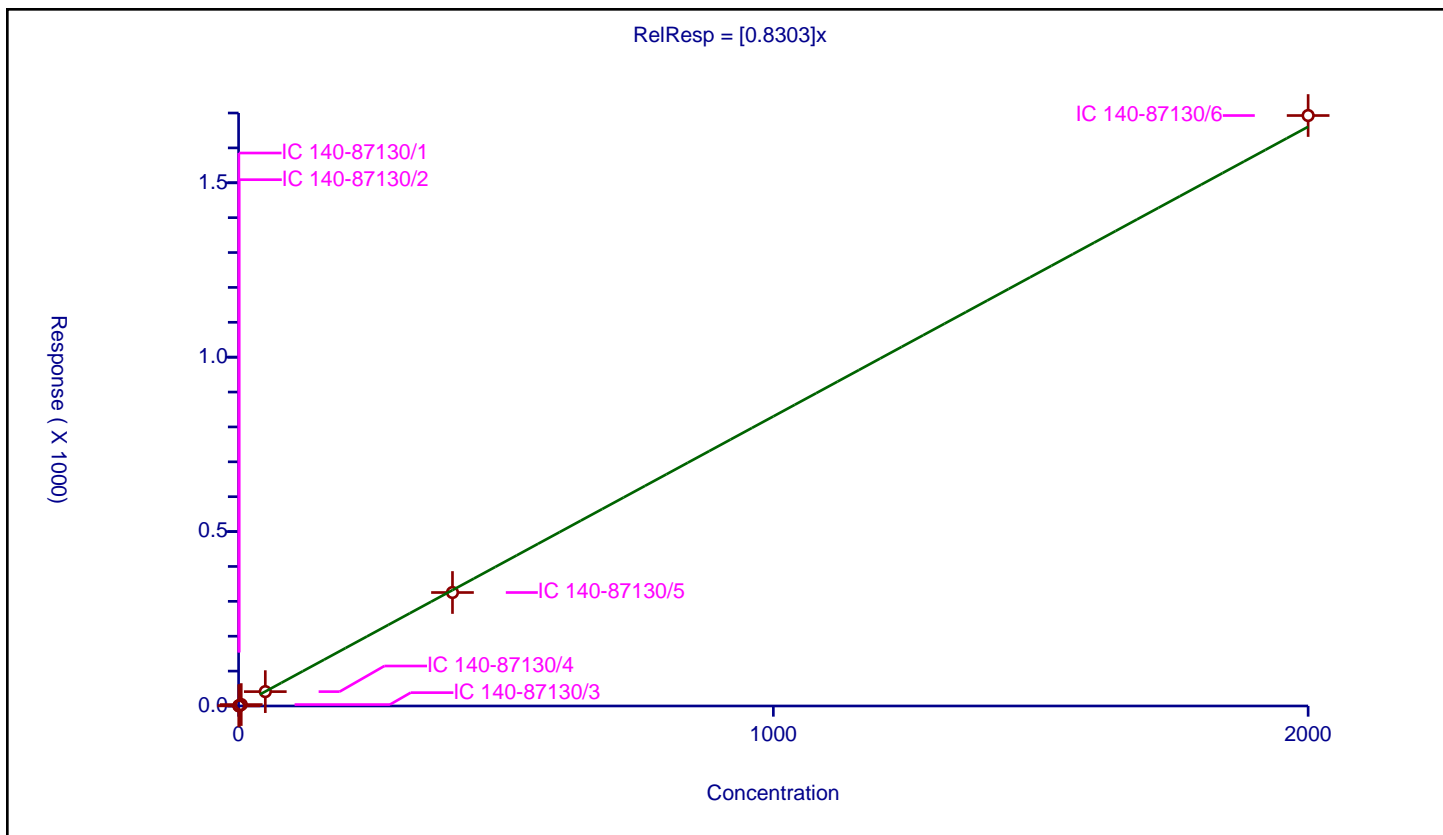
Curve Coefficients

Intercept: 0
 Slope: 0.8303

Error Coefficients

Relative Standard Deviation: 1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.417147	100.0	6938320.0	0.834294	Y
2	IC 140-87130/2	1.0	0.847078	100.0	6240748.0	0.847078	Y
3	IC 140-87130/3	5.0	4.084679	100.0	6307301.0	0.816936	Y
4	IC 140-87130/4	50.0	41.196704	100.0	6455349.0	0.823934	Y
5	IC 140-87130/5	400.0	325.326952	100.0	6672003.0	0.813317	Y
6	IC 140-87130/6	2000.0	1692.81655	100.0	6975966.0	0.846408	Y



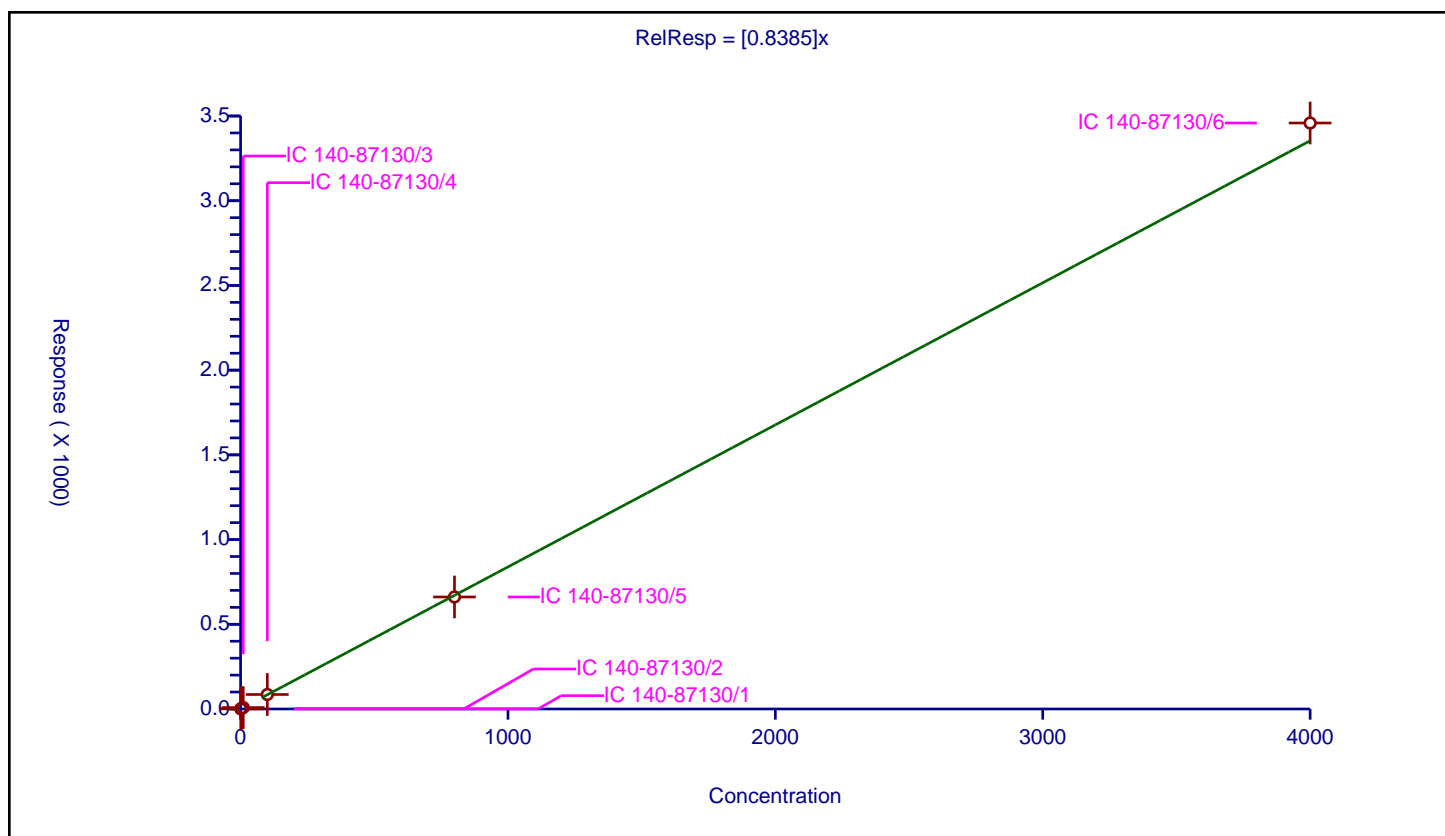
/ PCB-83

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.833516	100.0	6938320.0	0.833516	Y
2	IC 140-87130/2	2.0	1.623187	100.0	6240748.0	0.811593	Y
3	IC 140-87130/3	10.0	8.385393	100.0	6307301.0	0.838539	Y
4	IC 140-87130/4	100.0	85.61991	100.0	6455349.0	0.856199	Y
5	IC 140-87130/5	800.0	661.180518	100.0	6672003.0	0.826476	Y
6	IC 140-87130/6	4000.0	3458.757009	100.0	6975966.0	0.864689	Y



Calibration

/ PCB-83/99

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

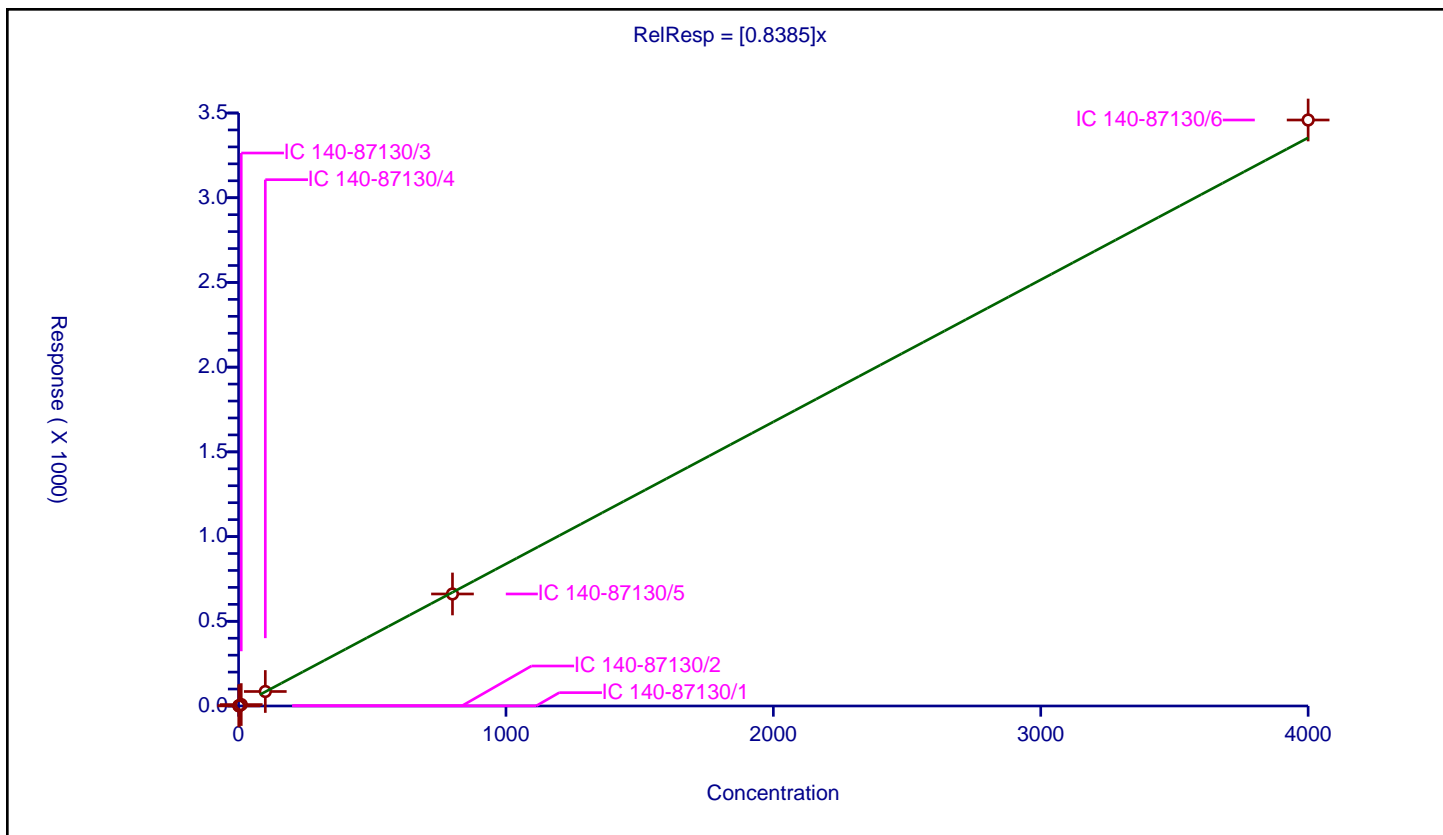
Curve Coefficients

Intercept: 0
 Slope: 0.8385

Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.833516	100.0	6938320.0	0.833516	Y
2	IC 140-87130/2	2.0	1.623187	100.0	6240748.0	0.811593	Y
3	IC 140-87130/3	10.0	8.385393	100.0	6307301.0	0.838539	Y
4	IC 140-87130/4	100.0	85.61991	100.0	6455349.0	0.856199	Y
5	IC 140-87130/5	800.0	661.180518	100.0	6672003.0	0.826476	Y
6	IC 140-87130/6	4000.0	3458.757009	100.0	6975966.0	0.864689	Y



Calibration

/ PCB-84

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

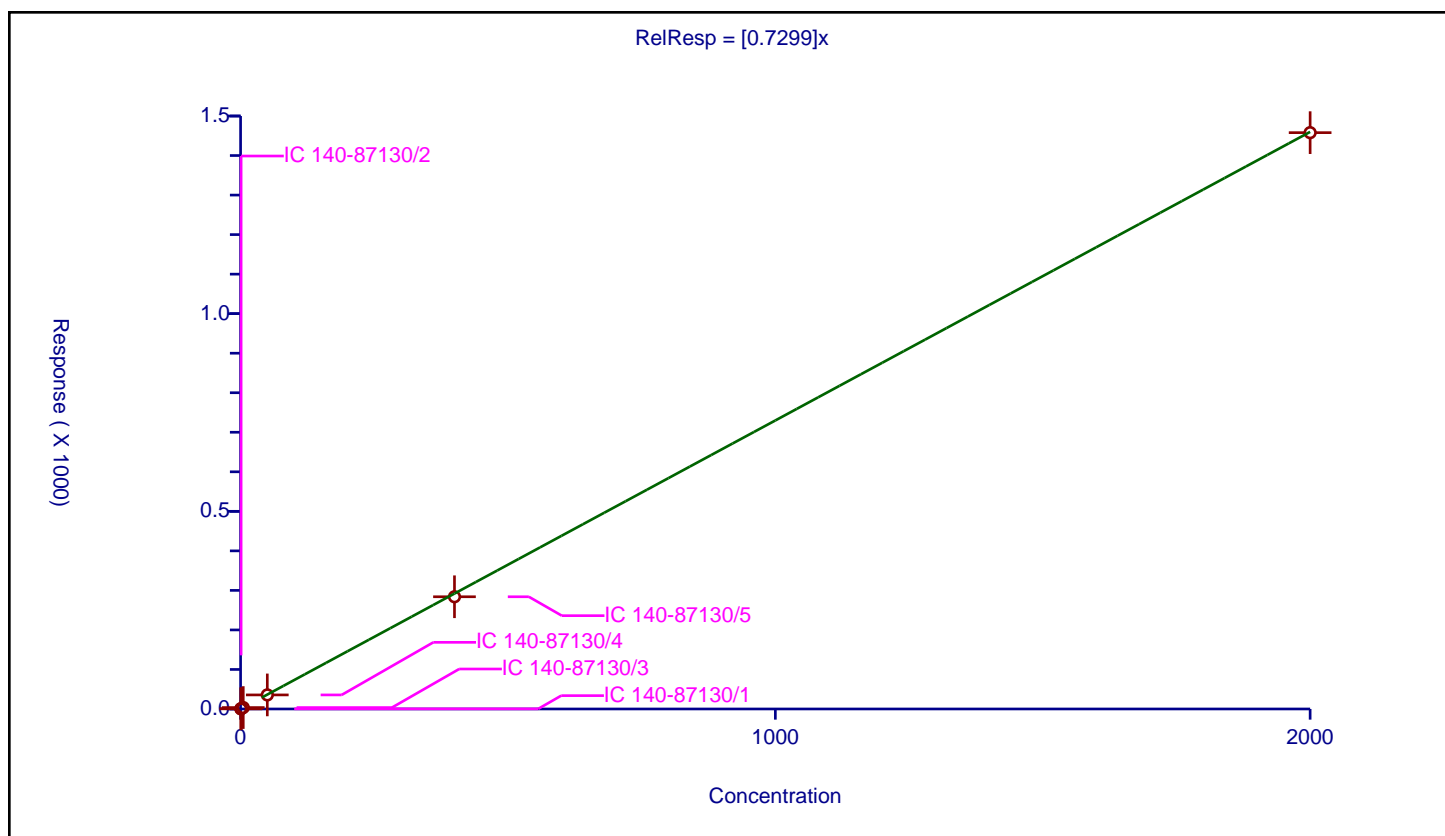
Curve Coefficients

Intercept: 0
 Slope: 0.7299

Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.362638	100.0	6938320.0	0.725276	Y
2	IC 140-87130/2	1.0	0.788015	100.0	6240748.0	0.788015	Y
3	IC 140-87130/3	5.0	3.578979	100.0	6307301.0	0.715796	Y
4	IC 140-87130/4	50.0	35.589292	100.0	6455349.0	0.711786	Y
5	IC 140-87130/5	400.0	283.911983	100.0	6672003.0	0.70978	Y
6	IC 140-87130/6	2000.0	1457.890993	100.0	6975966.0	0.728945	Y



Calibration

/ PCB-85

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

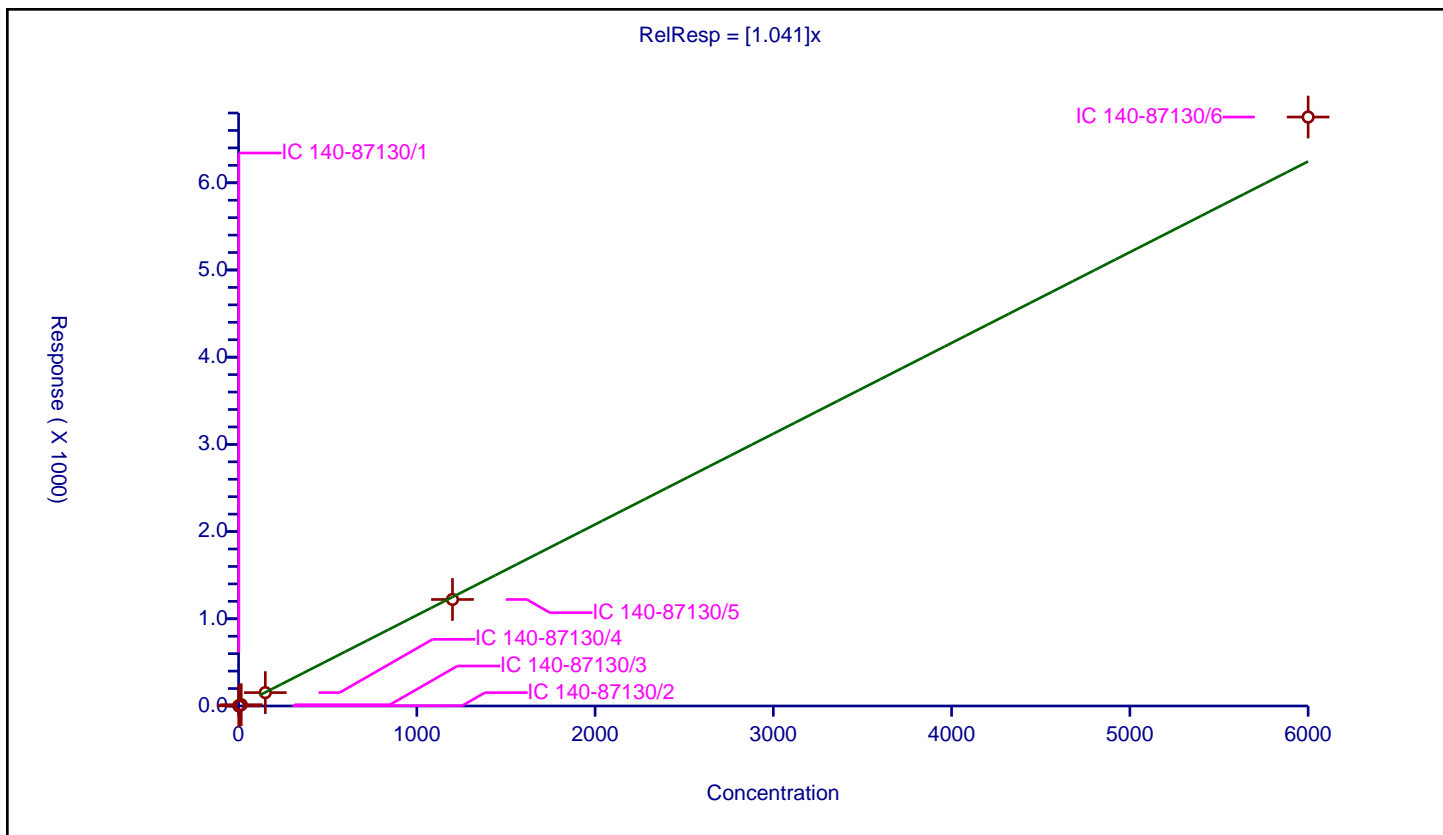
Curve Coefficients

Intercept: 0
 Slope: 1.041

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.585528	100.0	6938320.0	1.057019	Y
2	IC 140-87130/2	3.0	3.091152	100.0	6240748.0	1.030384	Y
3	IC 140-87130/3	15.0	14.877029	100.0	6307301.0	0.991802	Y
4	IC 140-87130/4	150.0	153.280512	100.0	6455349.0	1.02187	Y
5	IC 140-87130/5	1200.0	1221.649091	100.0	6672003.0	1.018041	Y
6	IC 140-87130/6	6000.0	6753.818009	100.0	6975966.0	1.125636	Y



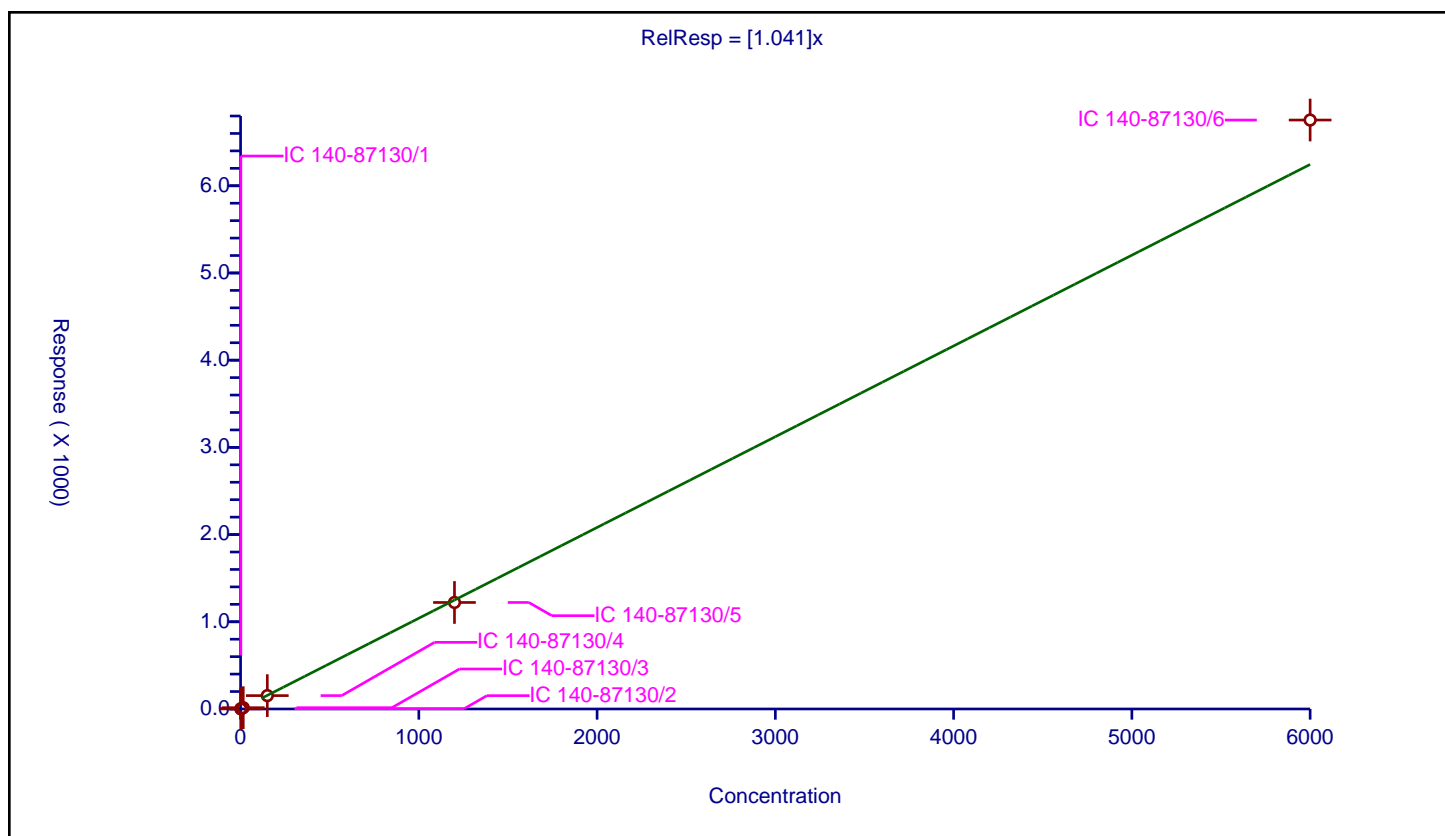
/ PCB-85/116/117

Curve Coefficients

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.585528	100.0	6938320.0	1.057019	Y
2	IC 140-87130/2	3.0	3.091152	100.0	6240748.0	1.030384	Y
3	IC 140-87130/3	15.0	14.877029	100.0	6307301.0	0.991802	Y
4	IC 140-87130/4	150.0	153.280512	100.0	6455349.0	1.02187	Y
5	IC 140-87130/5	1200.0	1221.649091	100.0	6672003.0	1.018041	Y
6	IC 140-87130/6	6000.0	6753.818009	100.0	6975966.0	1.125636	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

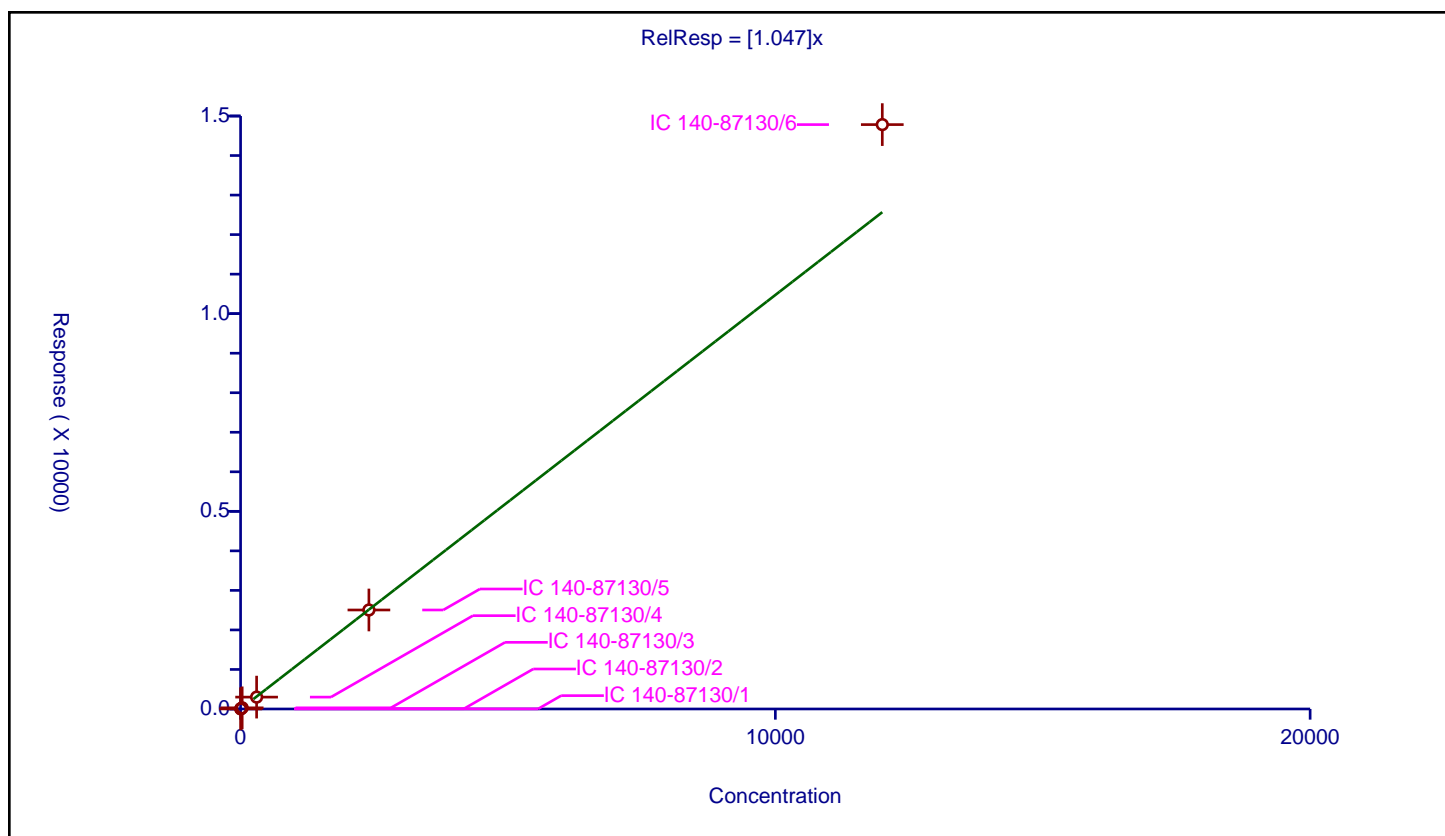
Curve Coefficients

Intercept: 0
Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Calibration

/ PCB-86/87/97/109/119/125

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

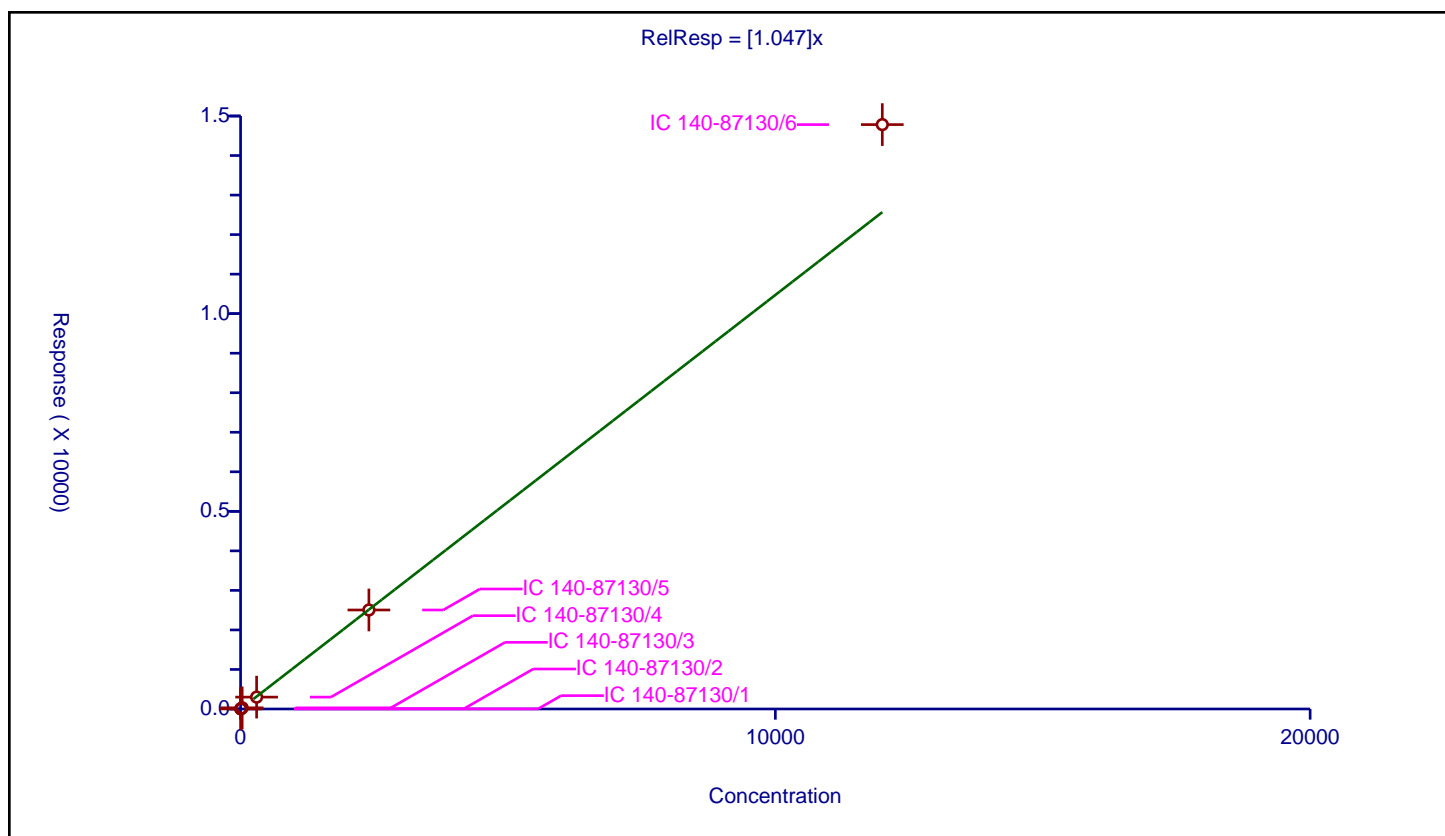
Curve Coefficients

Intercept: 0
 Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

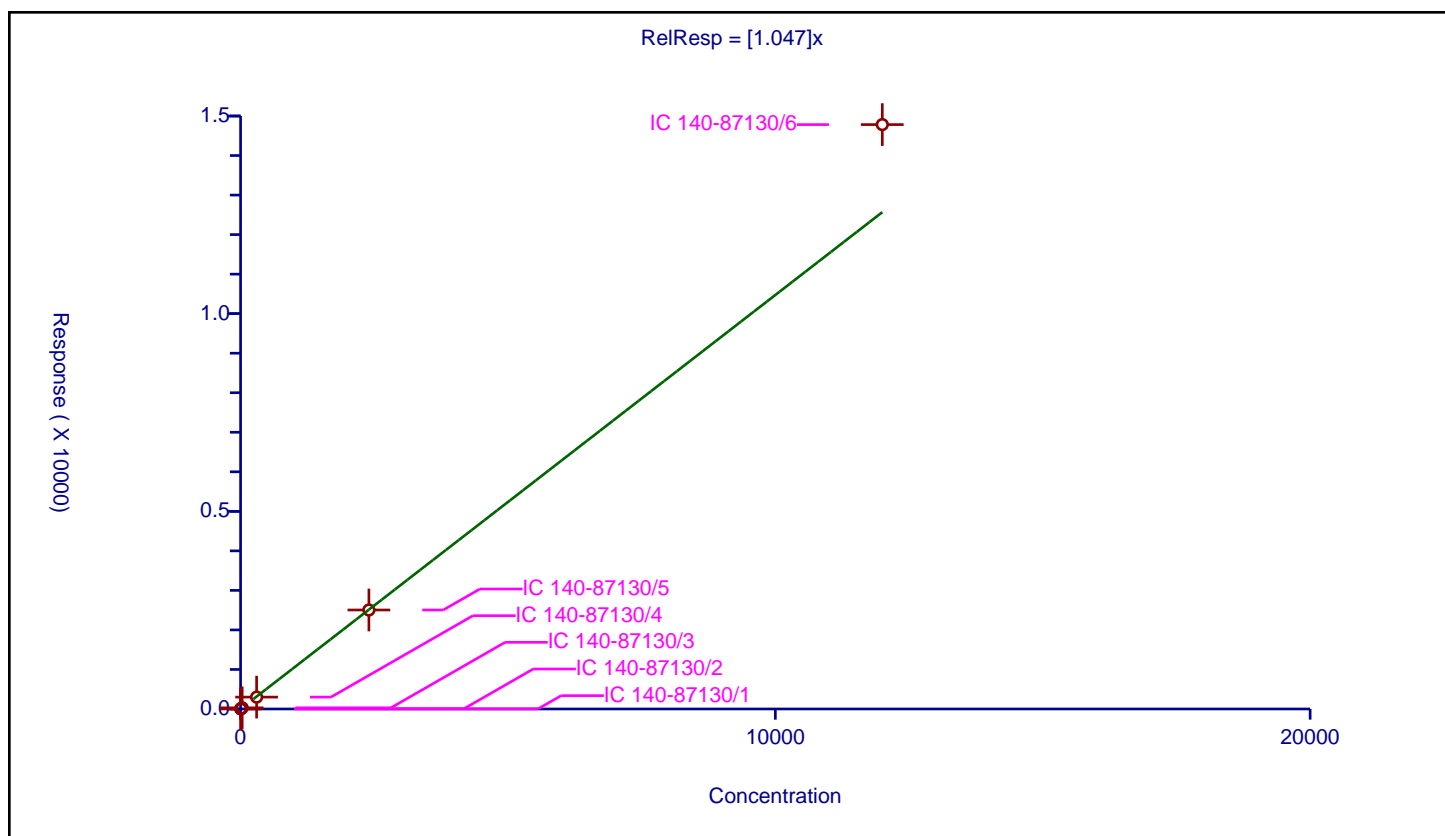
Curve Coefficients

Intercept: 0
Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Calibration

/ PCB-88

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

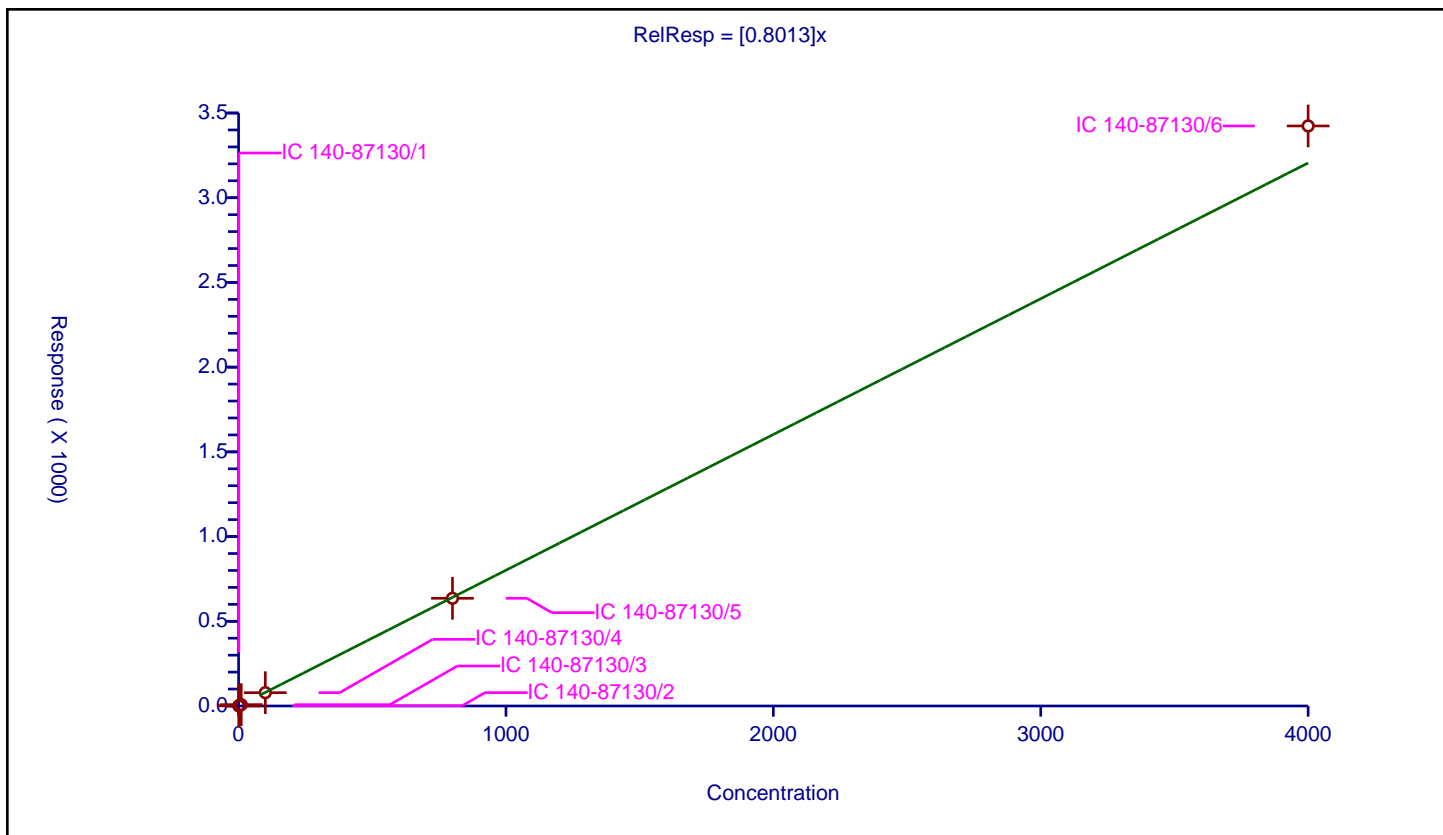
Curve Coefficients

Intercept: 0
 Slope: 0.8013

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.836571	100.0	6938320.0	0.836571	Y
2	IC 140-87130/2	2.0	1.492049	100.0	6240748.0	0.746024	Y
3	IC 140-87130/3	10.0	7.888081	100.0	6307301.0	0.788808	Y
4	IC 140-87130/4	100.0	78.595348	100.0	6455349.0	0.785953	Y
5	IC 140-87130/5	800.0	635.606489	100.0	6672003.0	0.794508	Y
6	IC 140-87130/6	4000.0	3423.621675	100.0	6975966.0	0.855905	Y



Calibration

/ PCB-88/91

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

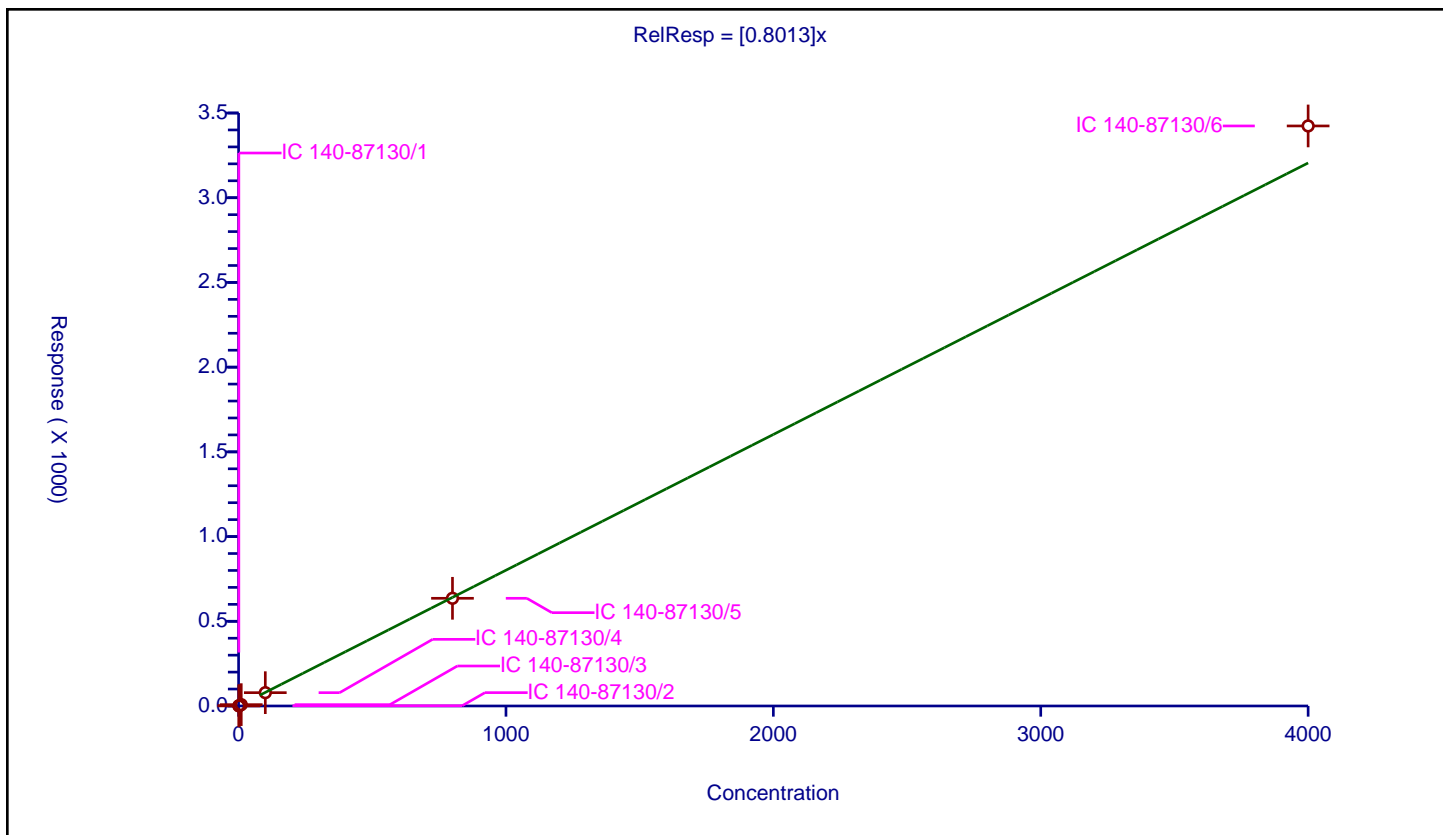
Curve Coefficients

Intercept: 0
 Slope: 0.8013

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.836571	100.0	6938320.0	0.836571	Y
2	IC 140-87130/2	2.0	1.492049	100.0	6240748.0	0.746024	Y
3	IC 140-87130/3	10.0	7.888081	100.0	6307301.0	0.788808	Y
4	IC 140-87130/4	100.0	78.595348	100.0	6455349.0	0.785953	Y
5	IC 140-87130/5	800.0	635.606489	100.0	6672003.0	0.794508	Y
6	IC 140-87130/6	4000.0	3423.621675	100.0	6975966.0	0.855905	Y



Calibration

/ PCB-89

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

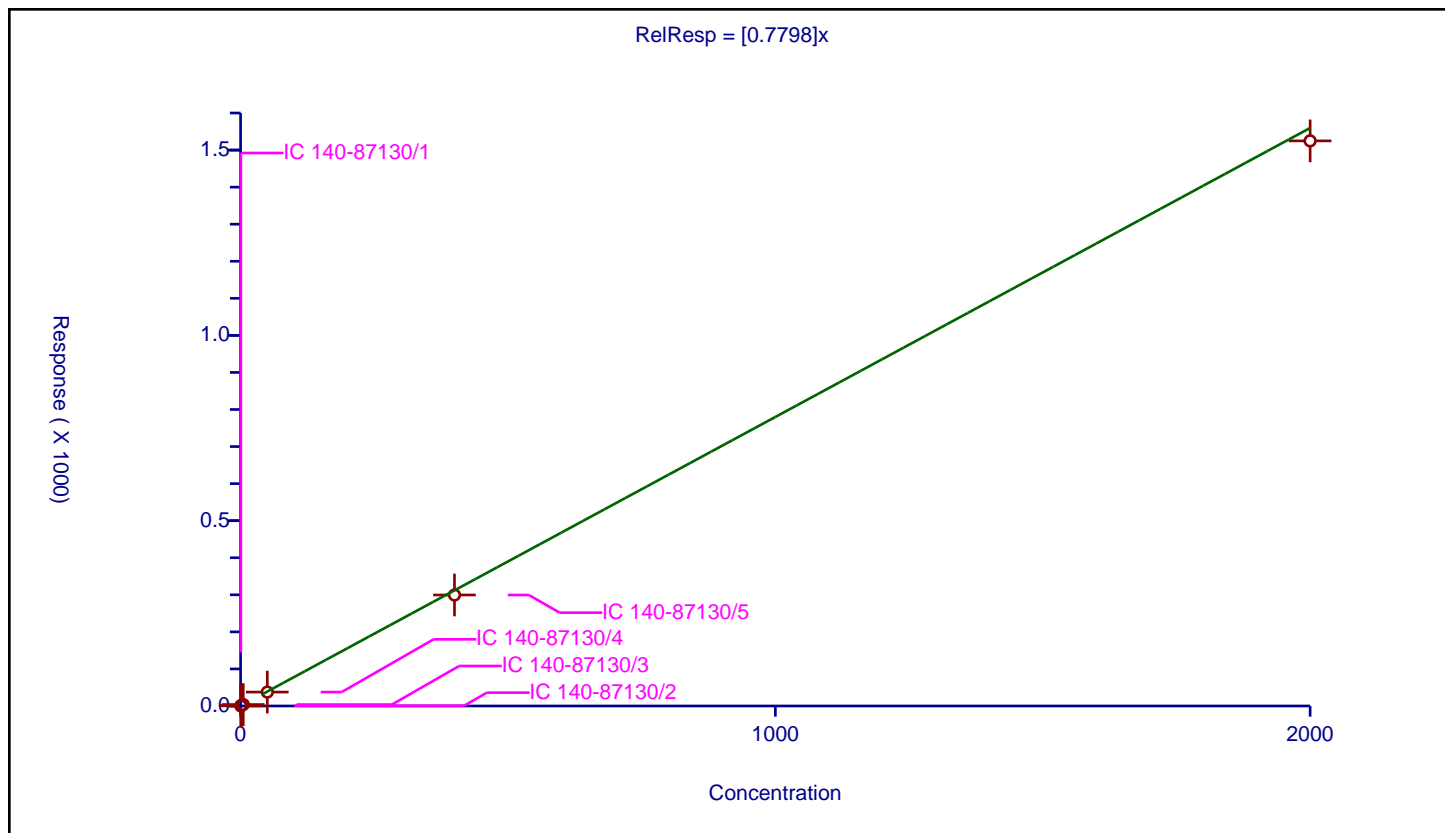
Curve Coefficients

Intercept: 0
 Slope: 0.7798

Error Coefficients

Relative Standard Deviation: 7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.445929	100.0	6938320.0	0.891859	Y
2	IC 140-87130/2	1.0	0.746401	100.0	6240748.0	0.746401	Y
3	IC 140-87130/3	5.0	3.892885	100.0	6307301.0	0.778577	Y
4	IC 140-87130/4	50.0	37.551587	100.0	6455349.0	0.751032	Y
5	IC 140-87130/5	400.0	299.471148	100.0	6672003.0	0.748678	Y
6	IC 140-87130/6	2000.0	1524.826153	100.0	6975966.0	0.762413	Y



Calibration

/ PCB-8L

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

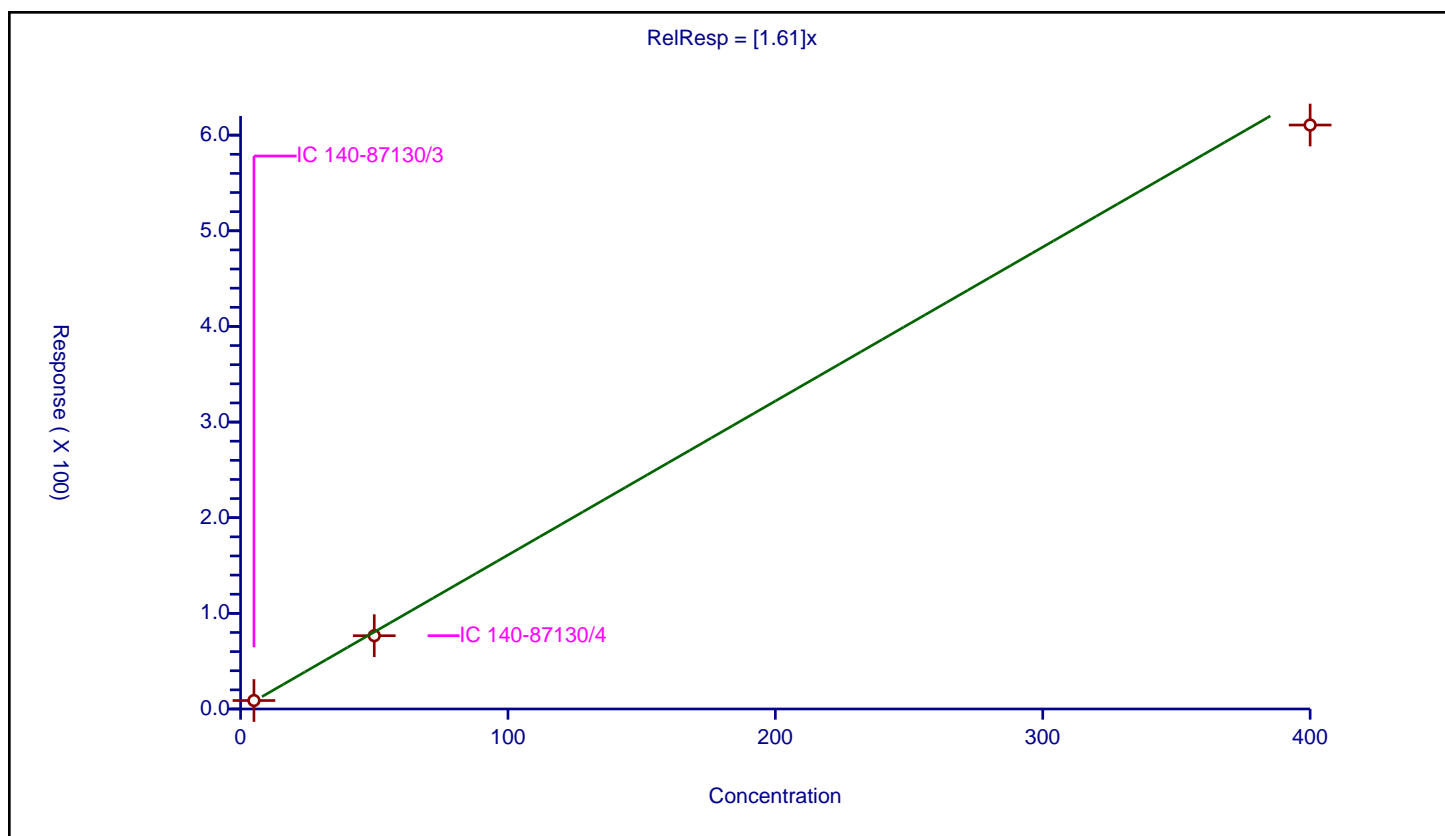
Curve Coefficients

Intercept: 0
 Slope: 1.61

Error Coefficients

Relative Standard Deviation: 8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	8.853044	100.0	5279032.0	1.770609	Y
2	IC 140-87130/4	50.0	76.624626	100.0	5474214.0	1.532493	Y
3	IC 140-87130/5	400.0	610.583449	100.0	5561618.0	1.526459	Y



Calibration

/ PCB-9

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

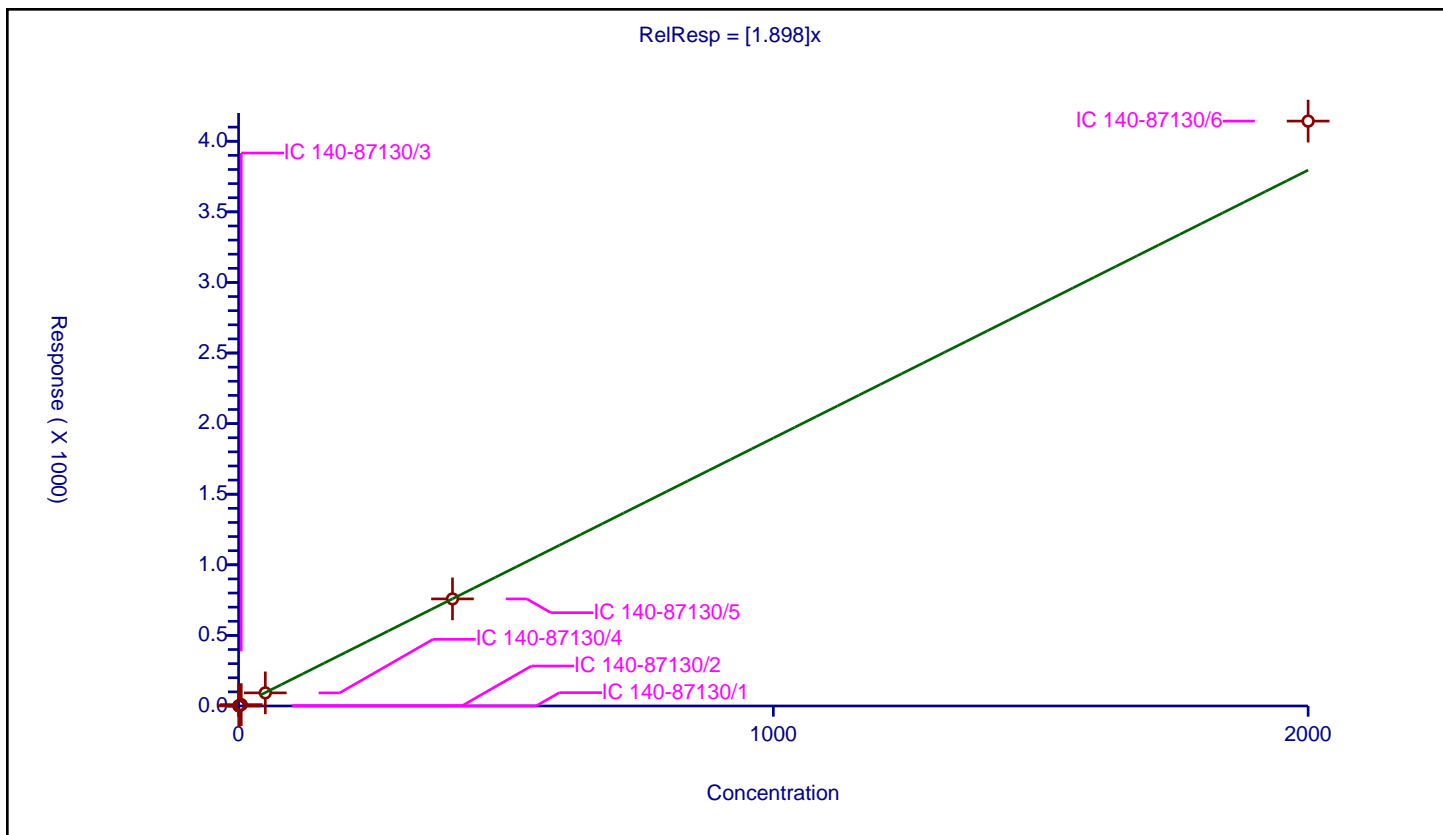
Curve Coefficients

Intercept: 0
 Slope: 1.898

Error Coefficients

Relative Standard Deviation: 5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.87223	100.0	5904521.0	1.74446	Y
2	IC 140-87130/2	1.0	1.869803	100.0	5442766.0	1.869803	Y
3	IC 140-87130/3	5.0	9.73902	100.0	5279032.0	1.947804	Y
4	IC 140-87130/4	50.0	92.863195	100.0	5474214.0	1.857264	Y
5	IC 140-87130/5	400.0	758.446067	100.0	5561618.0	1.896115	Y
6	IC 140-87130/6	2000.0	4142.830439	100.0	5672202.0	2.071415	Y



Calibration

/ PCB-90

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

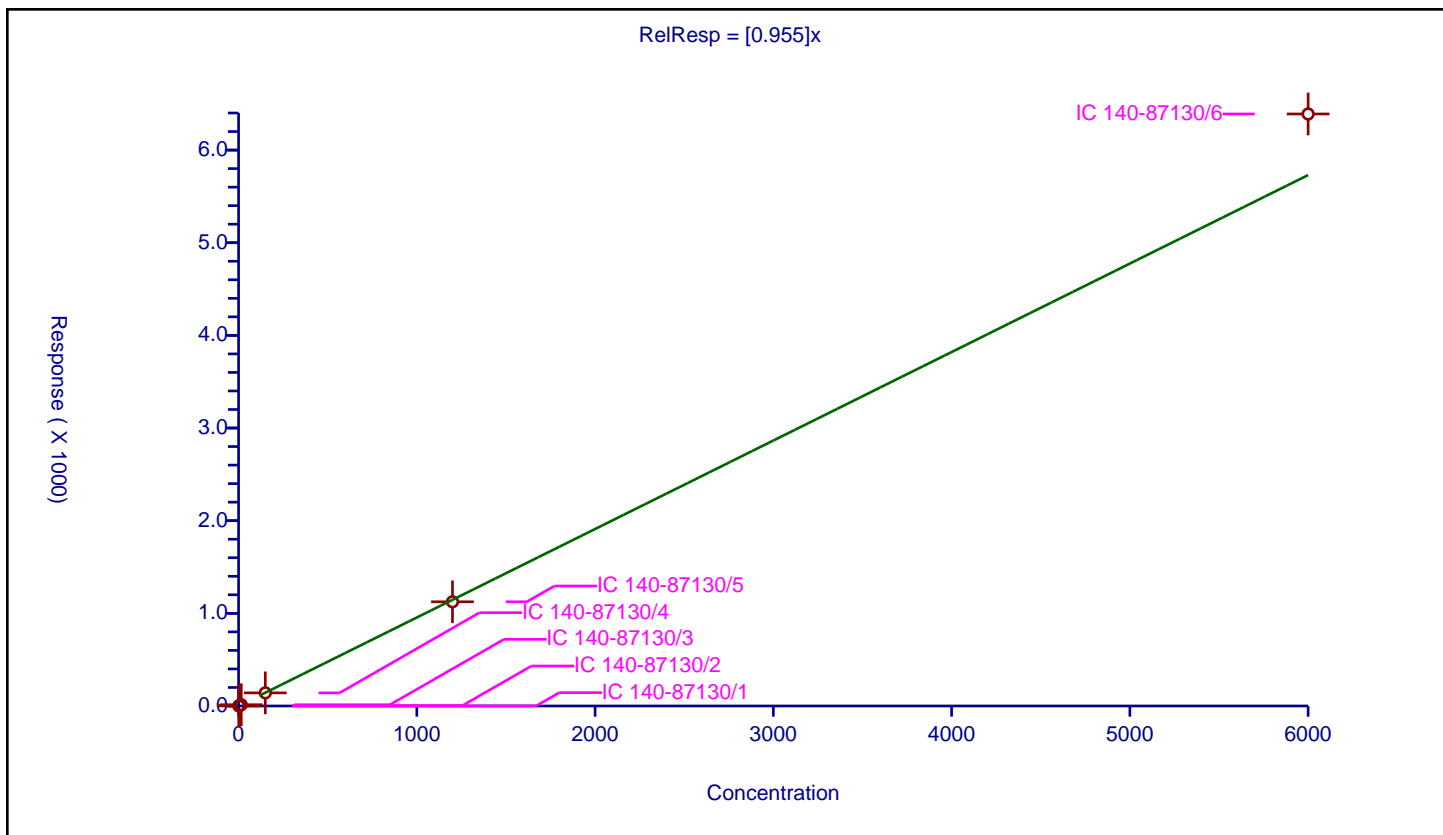
Curve Coefficients

Intercept: 0
Slope: 0.955

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.423053	100.0	6938320.0	0.948702	Y
2	IC 140-87130/2	3.0	2.801892	100.0	6240748.0	0.933964	Y
3	IC 140-87130/3	15.0	13.539722	100.0	6307301.0	0.902648	Y
4	IC 140-87130/4	150.0	141.38193	100.0	6455349.0	0.942546	Y
5	IC 140-87130/5	1200.0	1124.566761	100.0	6672003.0	0.937139	Y
6	IC 140-87130/6	6000.0	6389.746882	100.0	6975966.0	1.064958	Y



Calibration

/ PCB-90/101/113

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

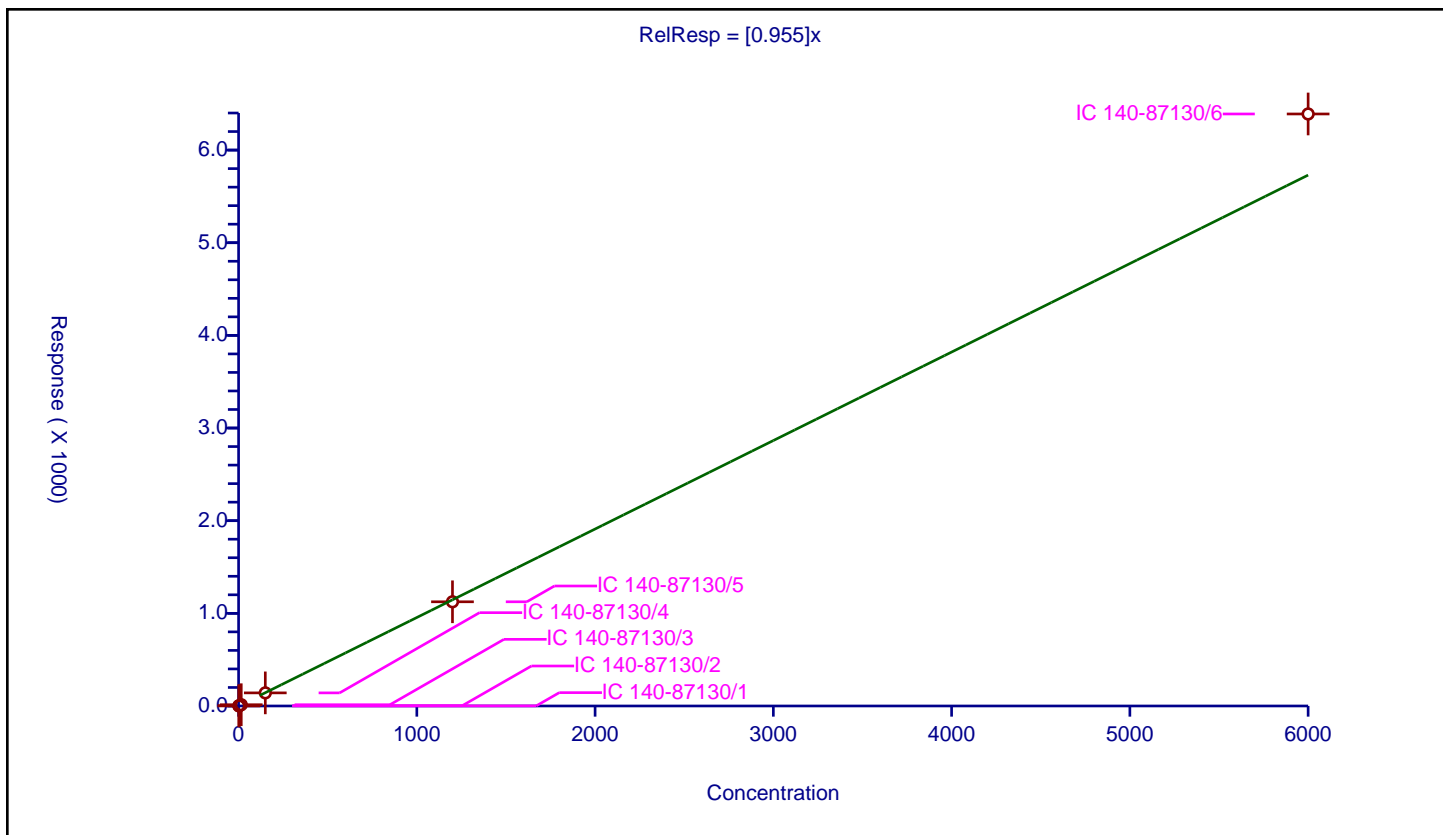
Curve Coefficients

Intercept: 0
Slope: 0.955

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.423053	100.0	6938320.0	0.948702	Y
2	IC 140-87130/2	3.0	2.801892	100.0	6240748.0	0.933964	Y
3	IC 140-87130/3	15.0	13.539722	100.0	6307301.0	0.902648	Y
4	IC 140-87130/4	150.0	141.38193	100.0	6455349.0	0.942546	Y
5	IC 140-87130/5	1200.0	1124.566761	100.0	6672003.0	0.937139	Y
6	IC 140-87130/6	6000.0	6389.746882	100.0	6975966.0	1.064958	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

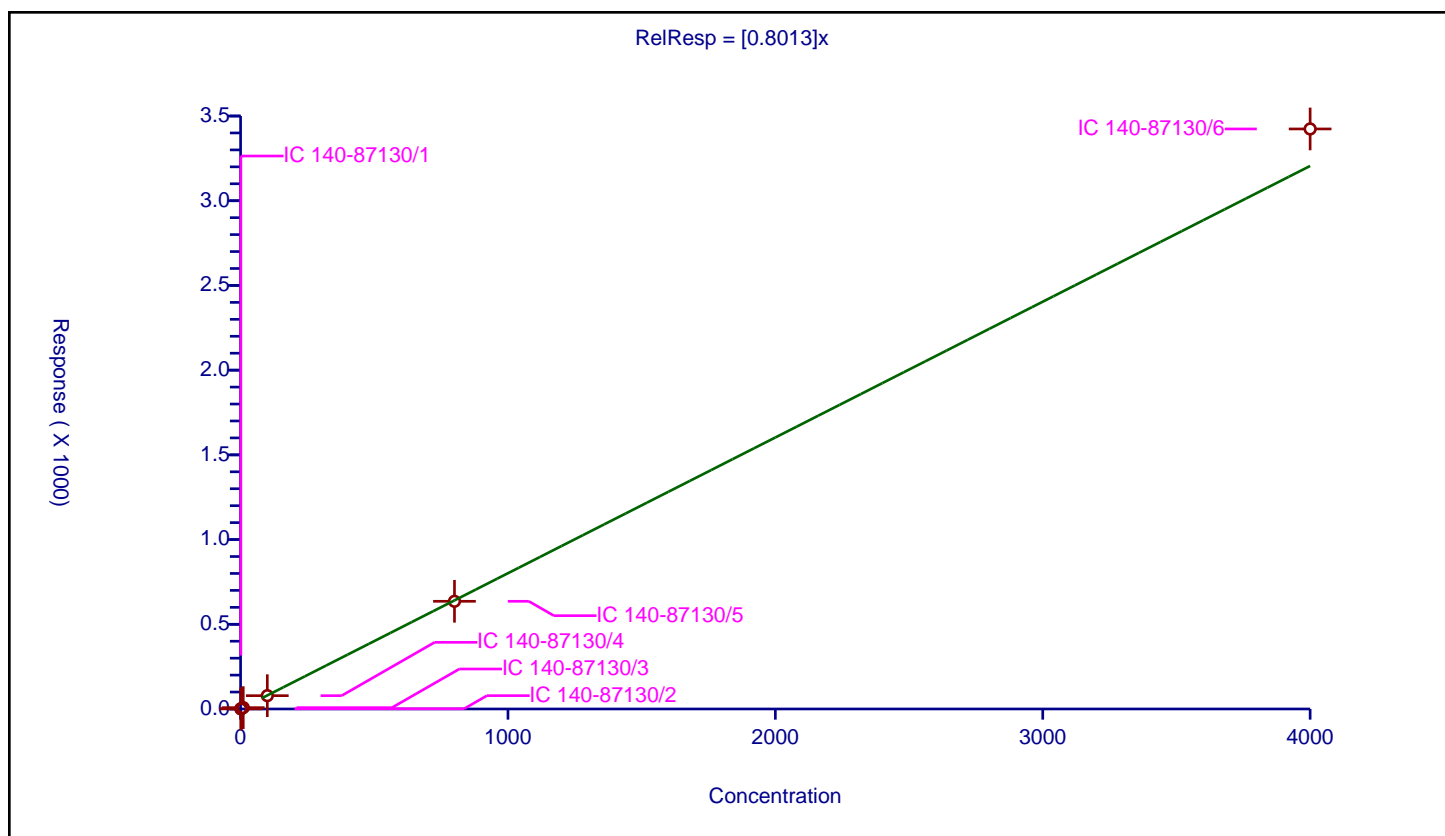
Curve Coefficients

Intercept: 0
Slope: 0.8013

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.836571	100.0	6938320.0	0.836571	Y
2	IC 140-87130/2	2.0	1.492049	100.0	6240748.0	0.746024	Y
3	IC 140-87130/3	10.0	7.888081	100.0	6307301.0	0.788808	Y
4	IC 140-87130/4	100.0	78.595348	100.0	6455349.0	0.785953	Y
5	IC 140-87130/5	800.0	635.606489	100.0	6672003.0	0.794508	Y
6	IC 140-87130/6	4000.0	3423.621675	100.0	6975966.0	0.855905	Y



Calibration

/ PCB-92

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

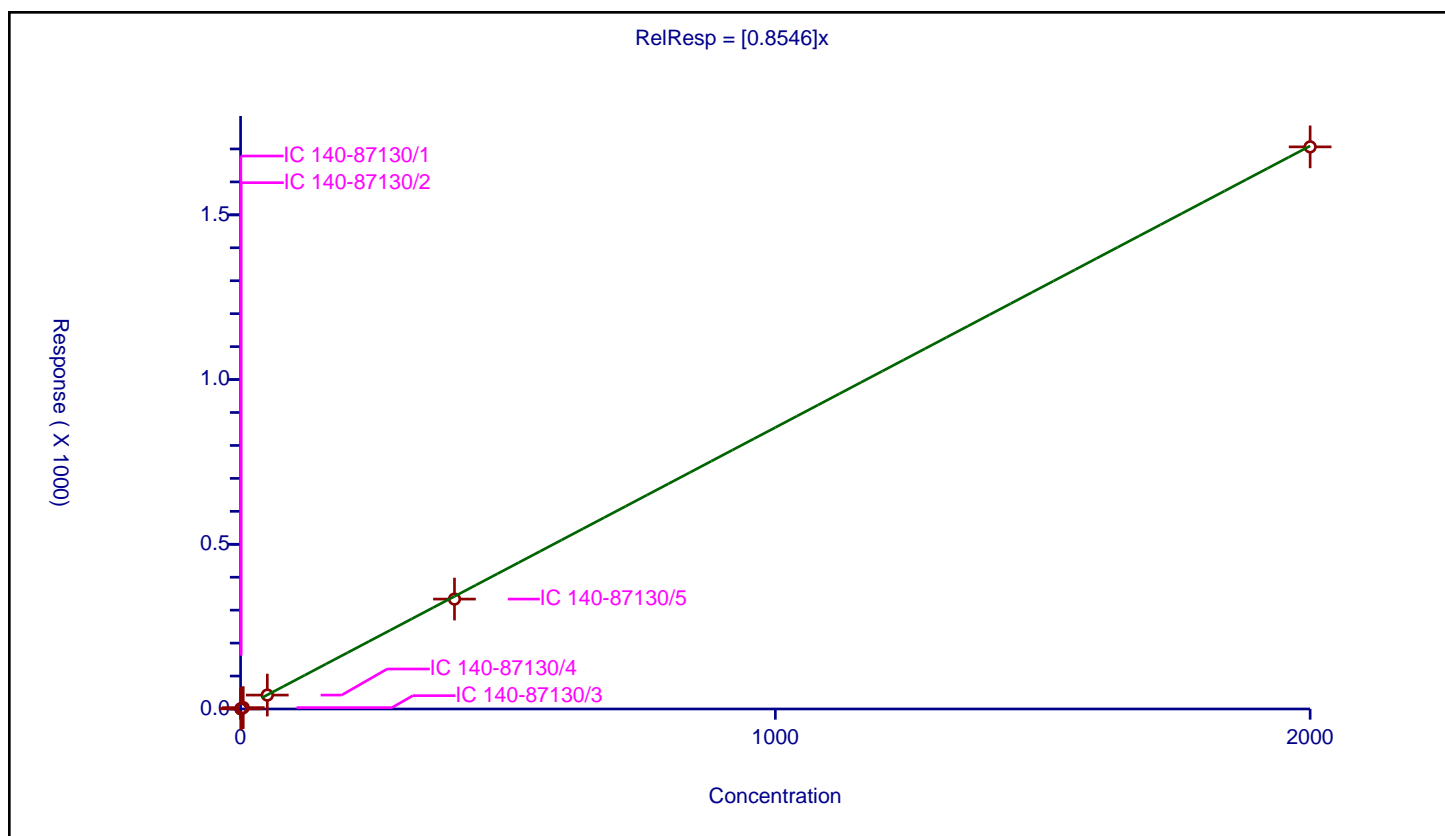
Curve Coefficients

Intercept: 0
Slope: 0.8546

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.431473	100.0	6938320.0	0.862947	Y
2	IC 140-87130/2	1.0	0.905997	100.0	6240748.0	0.905997	Y
3	IC 140-87130/3	5.0	4.13589	100.0	6307301.0	0.827178	Y
4	IC 140-87130/4	50.0	42.202954	100.0	6455349.0	0.844059	Y
5	IC 140-87130/5	400.0	333.604152	100.0	6672003.0	0.83401	Y
6	IC 140-87130/6	2000.0	1706.355808	100.0	6975966.0	0.853178	Y



Calibration

/ PCB-93

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

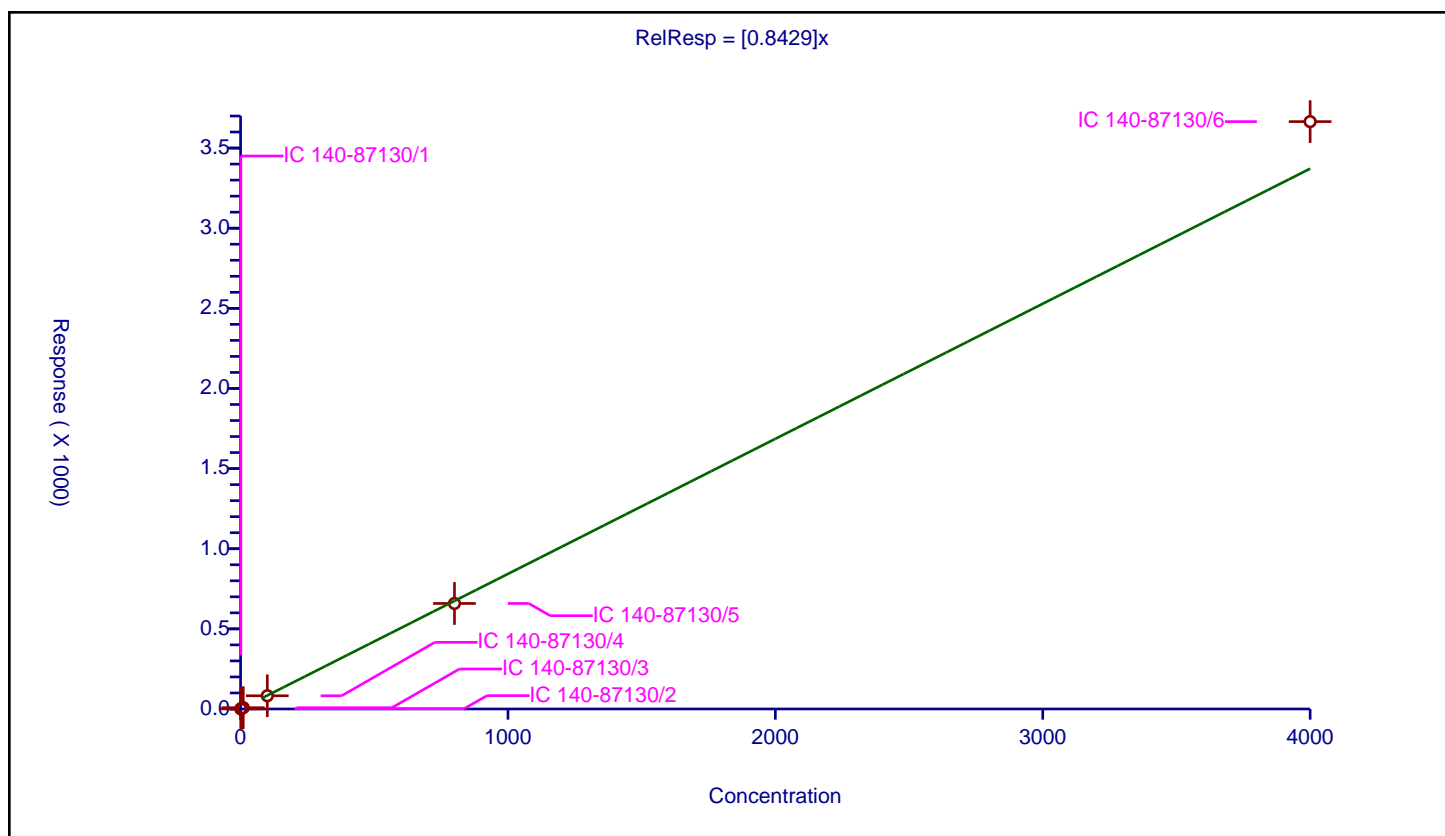
Curve Coefficients

Intercept: 0
 Slope: 0.8429

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.852714	100.0	6938320.0	0.852714	Y
2	IC 140-87130/2	2.0	1.667508	100.0	6240748.0	0.833754	Y
3	IC 140-87130/3	10.0	8.061721	100.0	6307301.0	0.806172	Y
4	IC 140-87130/4	100.0	82.513091	100.0	6455349.0	0.825131	Y
5	IC 140-87130/5	800.0	658.540756	100.0	6672003.0	0.823176	Y
6	IC 140-87130/6	4000.0	3665.032714	100.0	6975966.0	0.916258	Y



Calibration

/ PCB-93/100

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

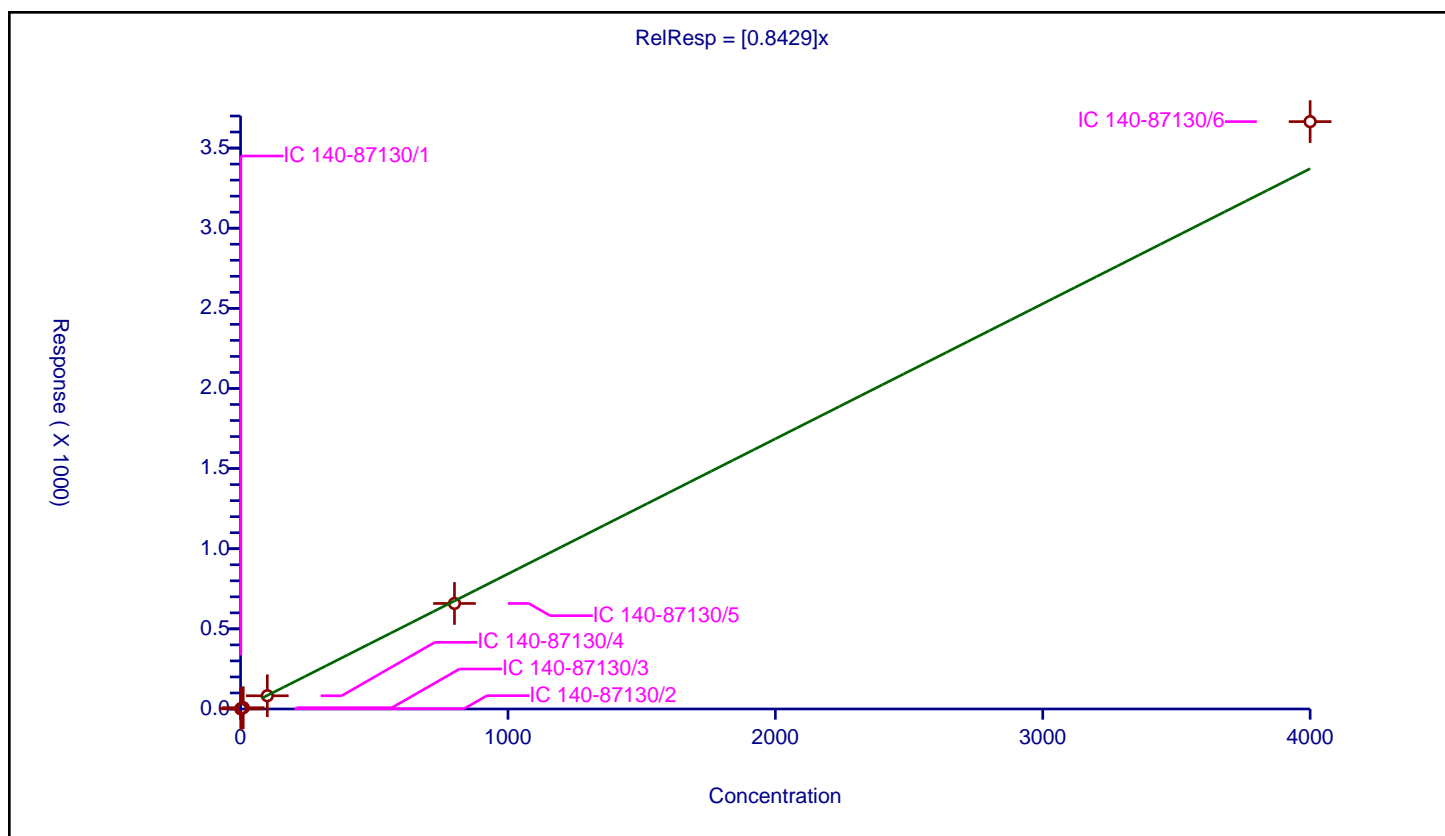
Curve Coefficients

Intercept: 0
 Slope: 0.8429

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.852714	100.0	6938320.0	0.852714	Y
2	IC 140-87130/2	2.0	1.667508	100.0	6240748.0	0.833754	Y
3	IC 140-87130/3	10.0	8.061721	100.0	6307301.0	0.806172	Y
4	IC 140-87130/4	100.0	82.513091	100.0	6455349.0	0.825131	Y
5	IC 140-87130/5	800.0	658.540756	100.0	6672003.0	0.823176	Y
6	IC 140-87130/6	4000.0	3665.032714	100.0	6975966.0	0.916258	Y



Calibration

/ PCB-94

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

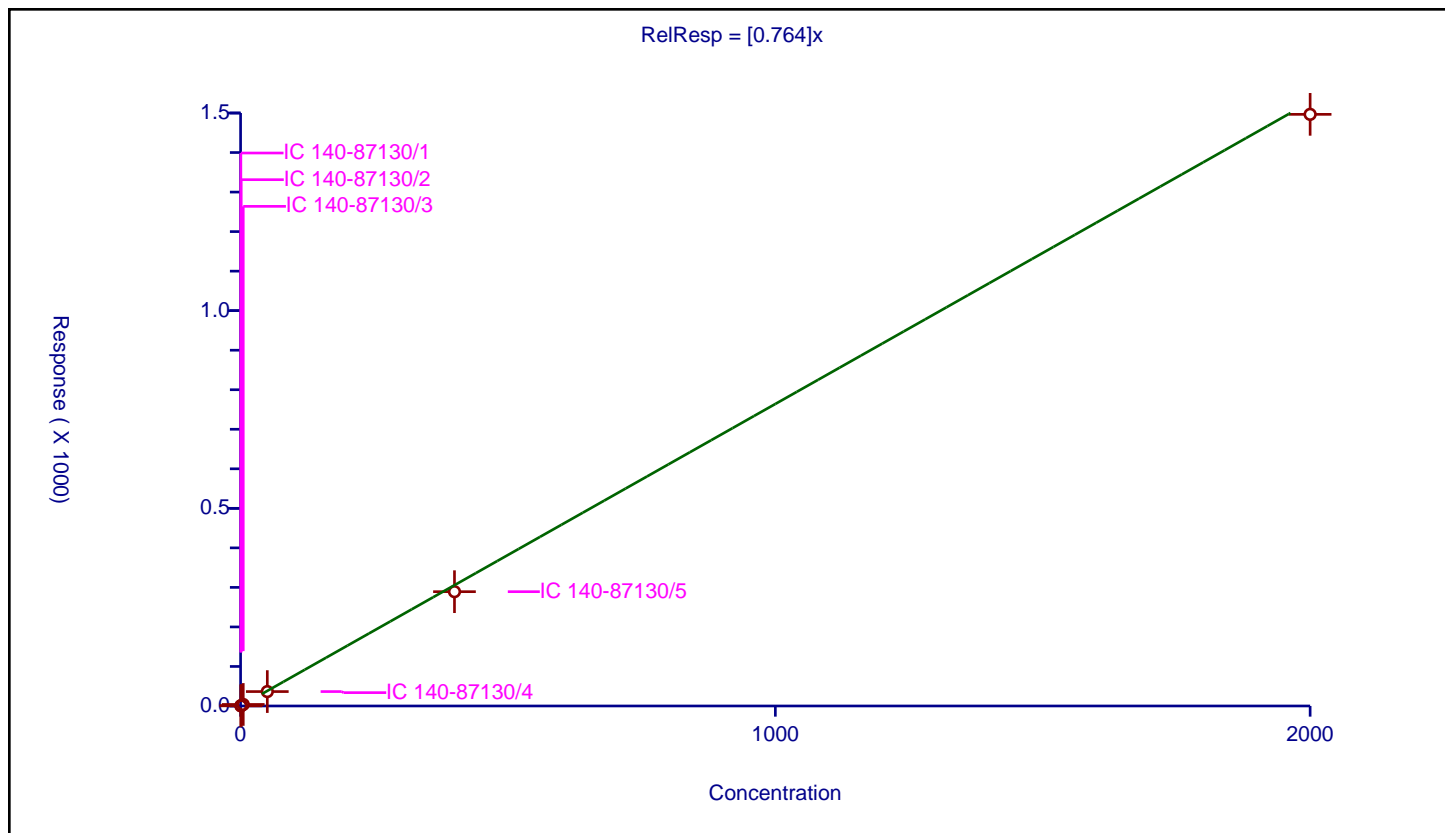
Curve Coefficients

Intercept: 0
Slope: 0.764

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.399996	100.0	6938320.0	0.799992	Y
2	IC 140-87130/2	1.0	0.811922	100.0	6240748.0	0.811922	Y
3	IC 140-87130/3	5.0	3.858291	100.0	6307301.0	0.771658	Y
4	IC 140-87130/4	50.0	36.464829	100.0	6455349.0	0.729297	Y
5	IC 140-87130/5	400.0	289.173836	100.0	6672003.0	0.722935	Y
6	IC 140-87130/6	2000.0	1496.625872	100.0	6975966.0	0.748313	Y



Calibration

/ PCB-95

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

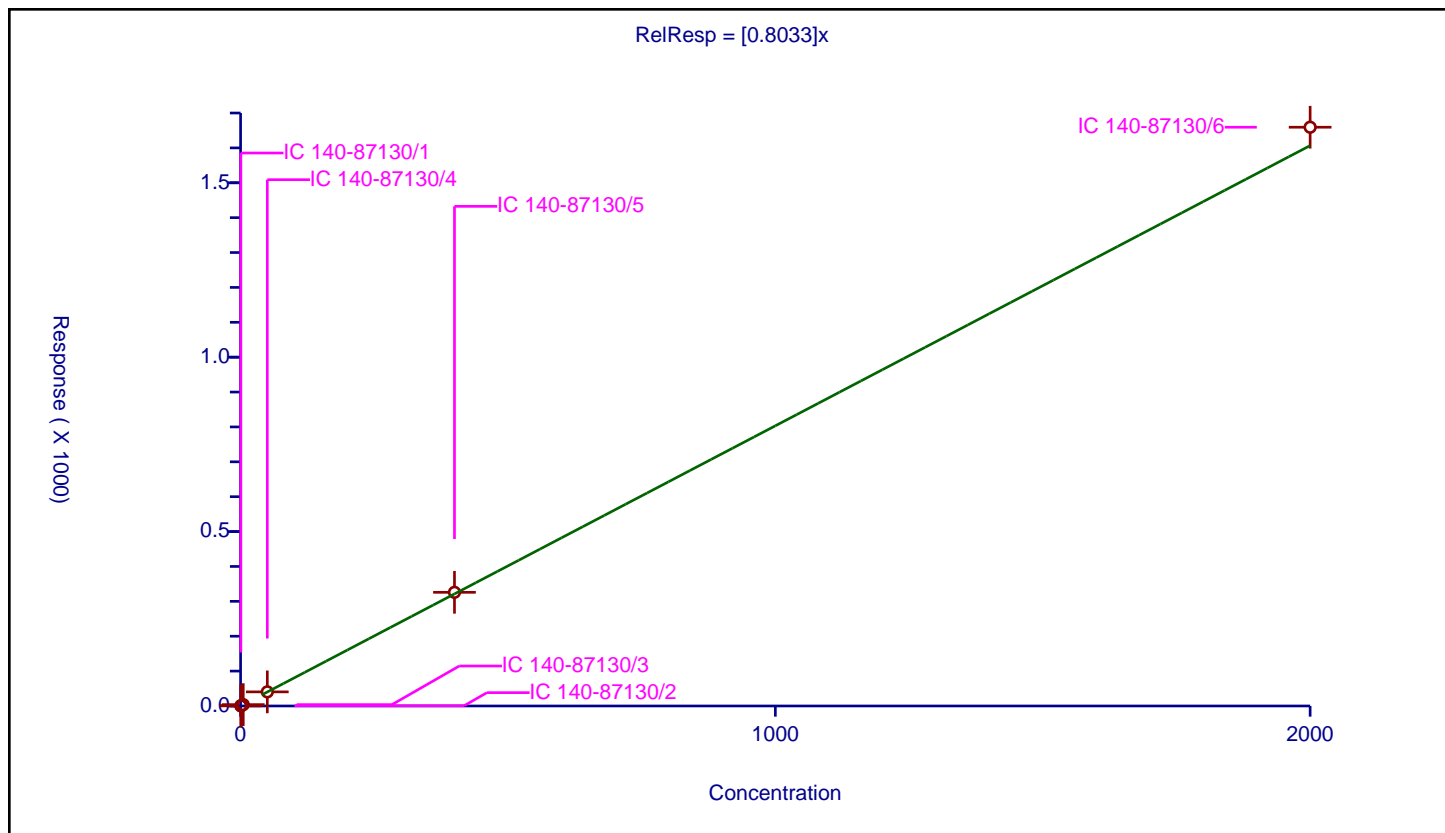
Curve Coefficients

Intercept: 0
Slope: 0.8033

Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.404839	100.0	6938320.0	0.809677	Y
2	IC 140-87130/2	1.0	0.771622	100.0	6240748.0	0.771622	Y
3	IC 140-87130/3	5.0	3.921138	100.0	6307301.0	0.784228	Y
4	IC 140-87130/4	50.0	40.490003	100.0	6455349.0	0.8098	Y
5	IC 140-87130/5	400.0	325.890921	100.0	6672003.0	0.814727	Y
6	IC 140-87130/6	2000.0	1659.27592	100.0	6975966.0	0.829638	Y



Calibration

/ PCB-95L

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

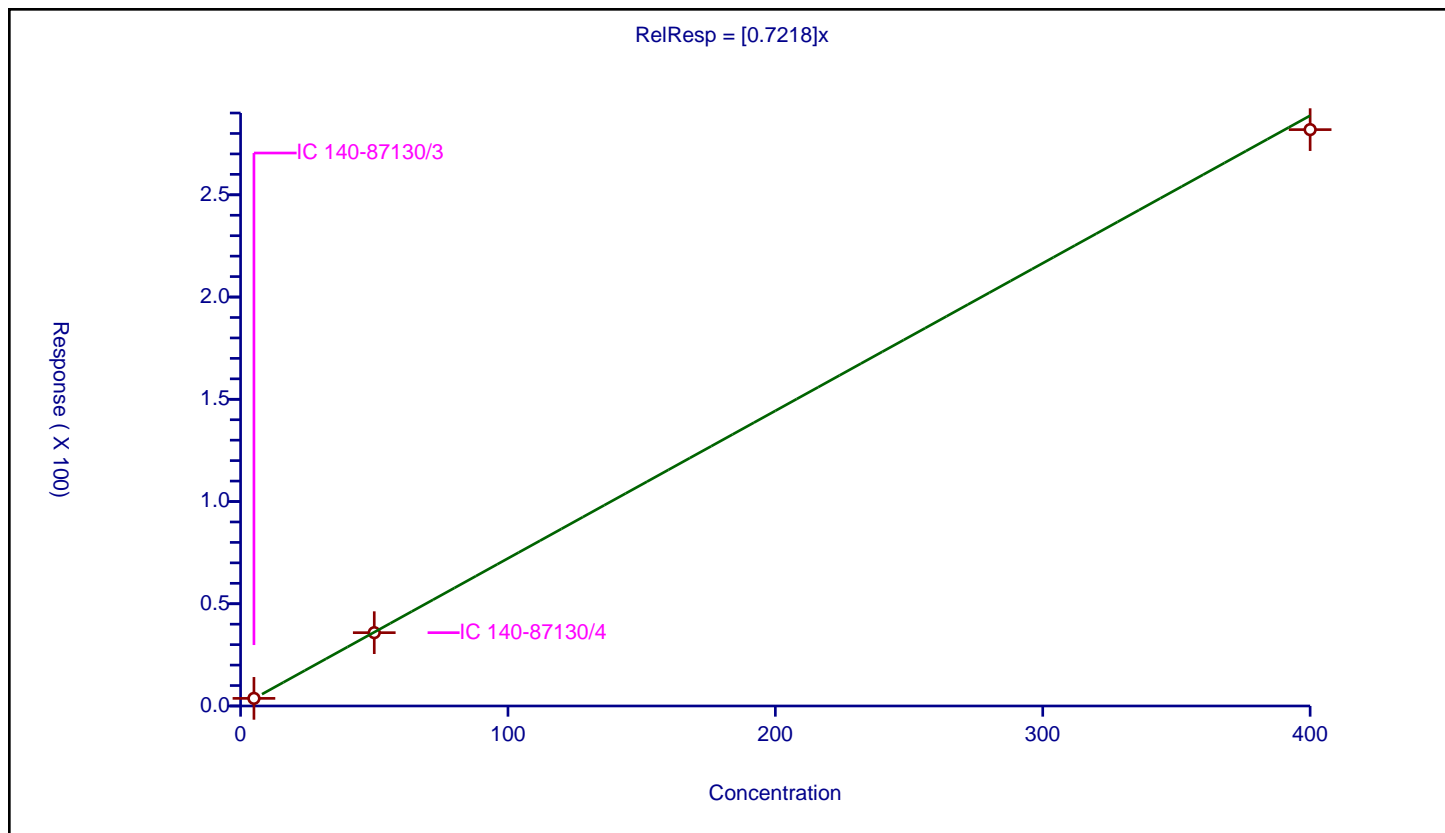
Curve Coefficients

Intercept: 0
Slope: 0.7218

Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	3.717501	100.0	6307301.0	0.7435	Y
2	IC 140-87130/4	50.0	35.86119	100.0	6455349.0	0.717224	Y
3	IC 140-87130/5	400.0	281.878485	100.0	6672003.0	0.704696	Y



Calibration

/ PCB-96

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

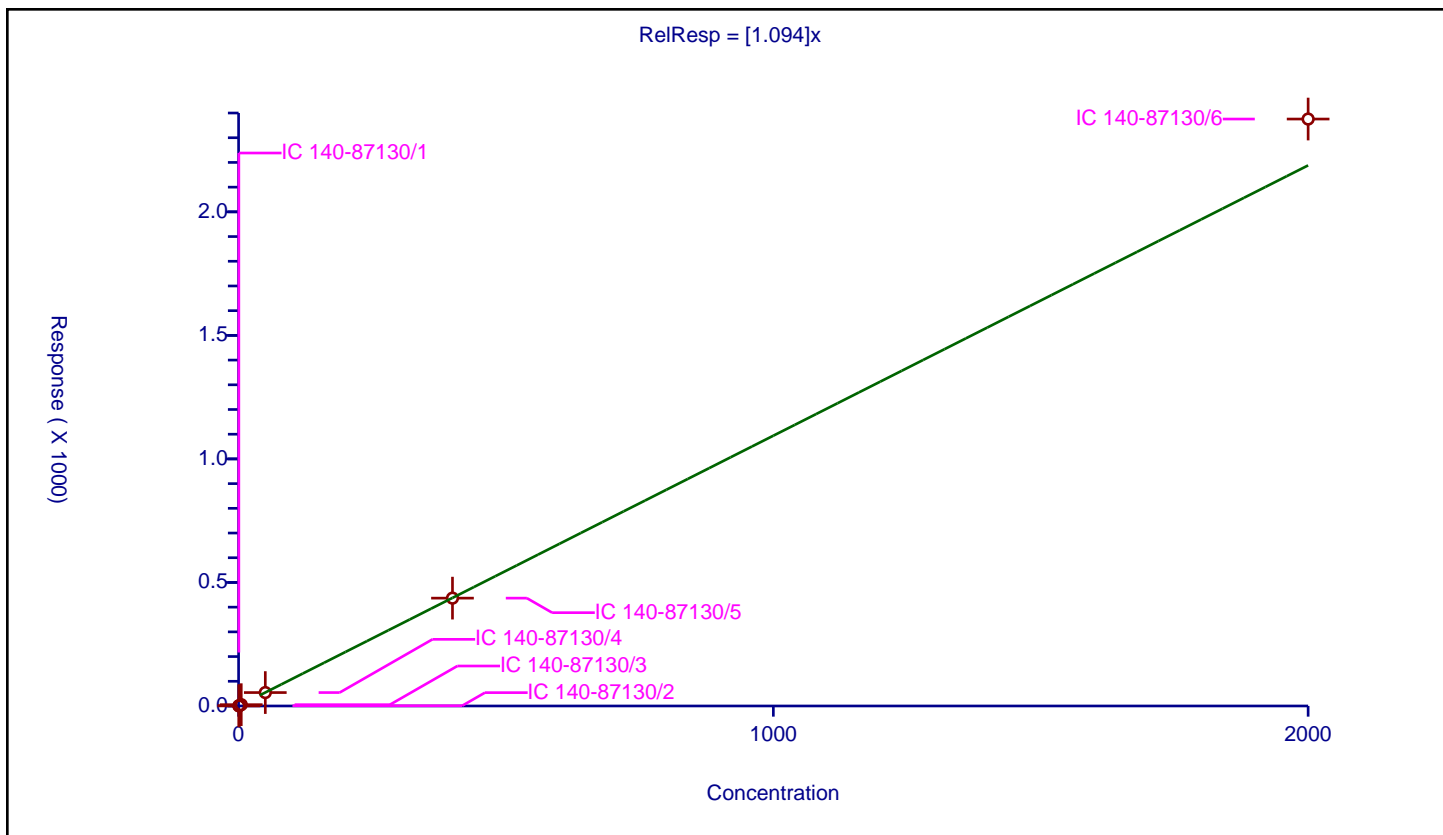
Curve Coefficients

Intercept: 0
 Slope: 1.094

Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.554745	100.0	6938320.0	1.10949	Y
2	IC 140-87130/2	1.0	1.015583	100.0	6240748.0	1.015583	Y
3	IC 140-87130/3	5.0	5.369507	100.0	6307301.0	1.073901	Y
4	IC 140-87130/4	50.0	54.300519	100.0	6455349.0	1.08601	Y
5	IC 140-87130/5	400.0	436.521941	100.0	6672003.0	1.091305	Y
6	IC 140-87130/6	2000.0	2375.560489	100.0	6975966.0	1.18778	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

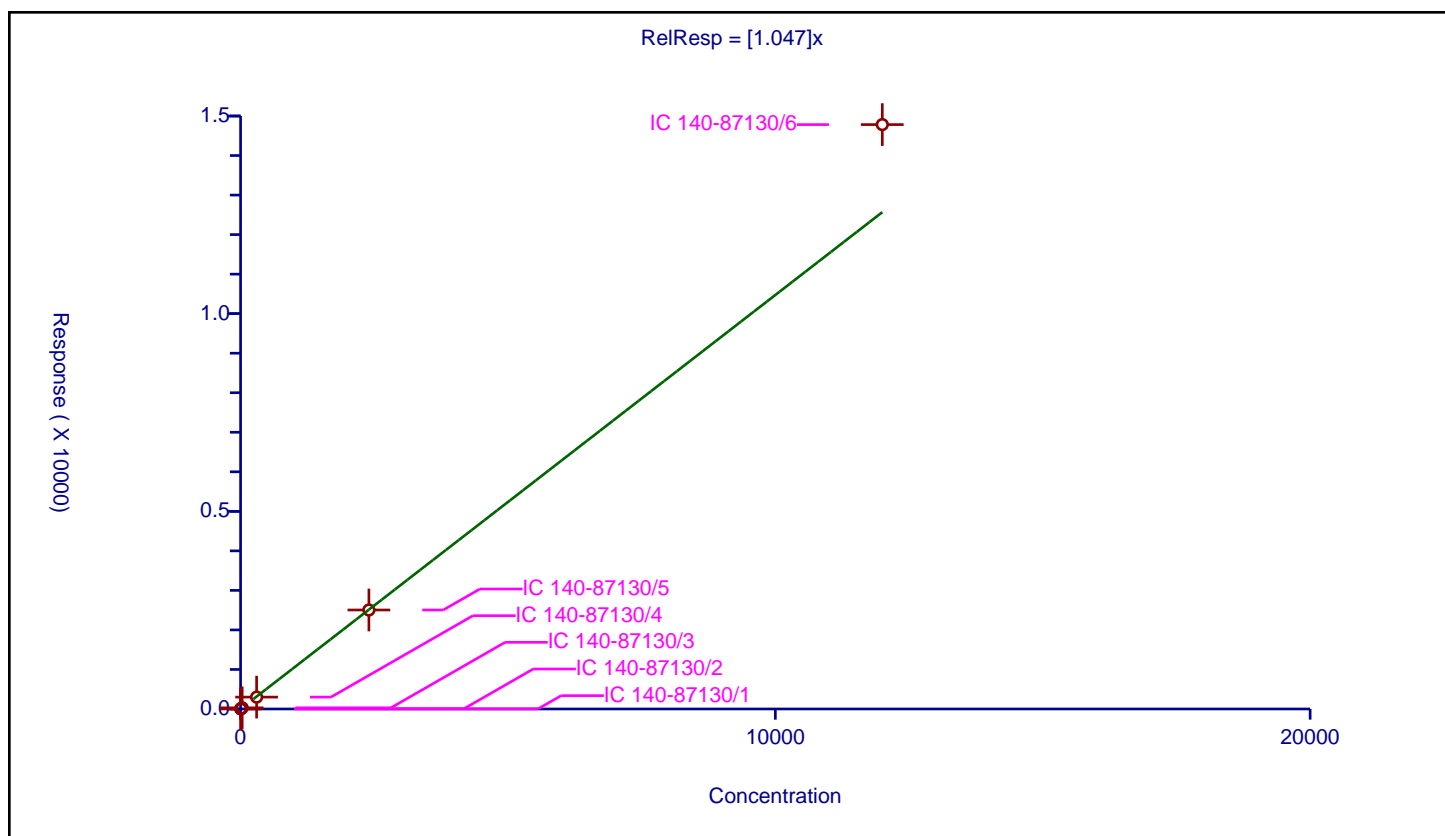
Curve Coefficients

Intercept: 0
Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Calibration

/ PCB-98

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

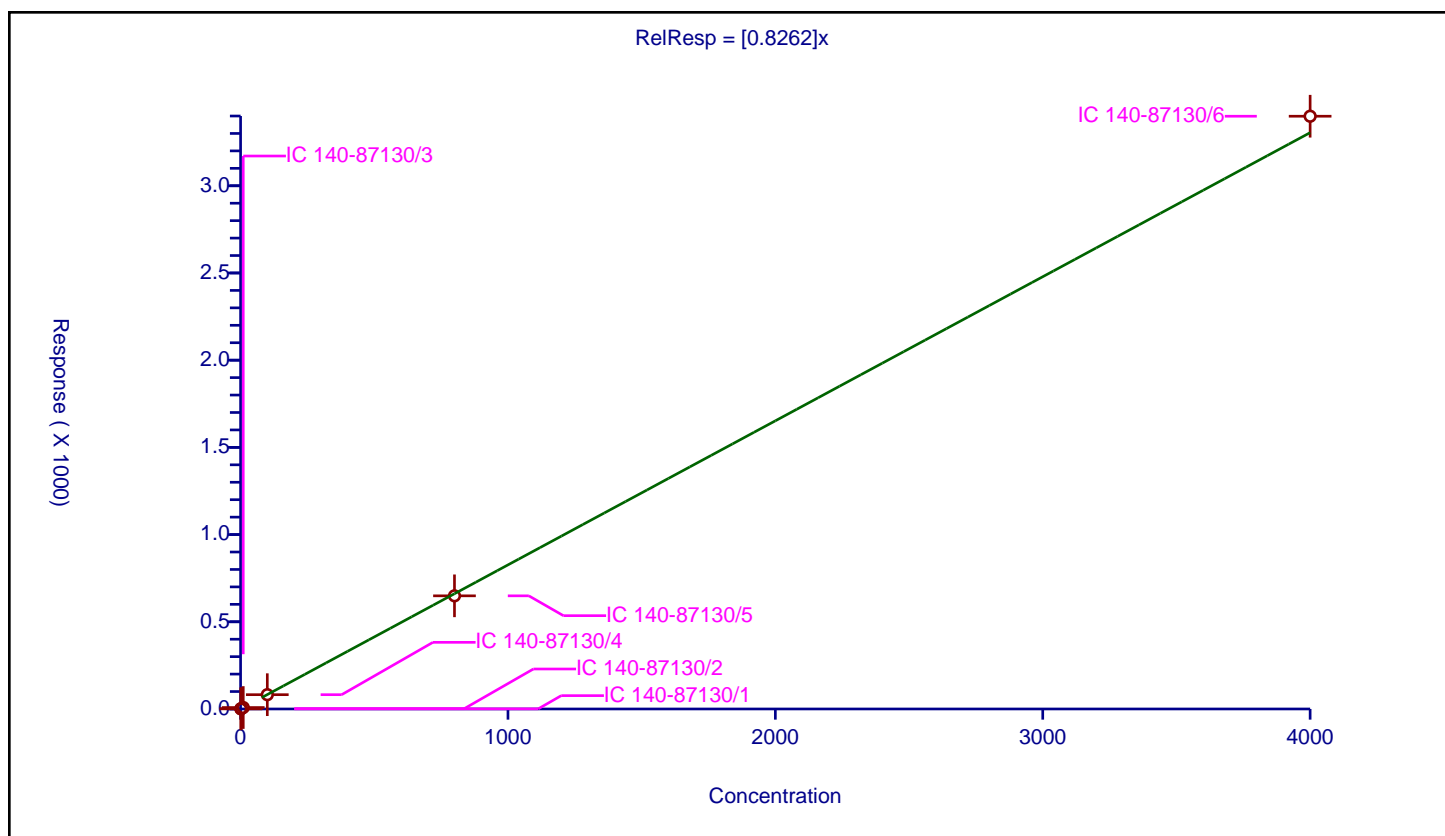
Curve Coefficients

Intercept: 0
Slope: 0.8262

Error Coefficients

Relative Standard Deviation: 1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.825603	100.0	6938320.0	0.825603	Y
2	IC 140-87130/2	2.0	1.631167	100.0	6240748.0	0.815583	Y
3	IC 140-87130/3	10.0	8.347532	100.0	6307301.0	0.834753	Y
4	IC 140-87130/4	100.0	82.021111	100.0	6455349.0	0.820211	Y
5	IC 140-87130/5	800.0	648.883896	100.0	6672003.0	0.811105	Y
6	IC 140-87130/6	4000.0	3398.773116	100.0	6975966.0	0.849693	Y



Calibration

/ PCB-98/102

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

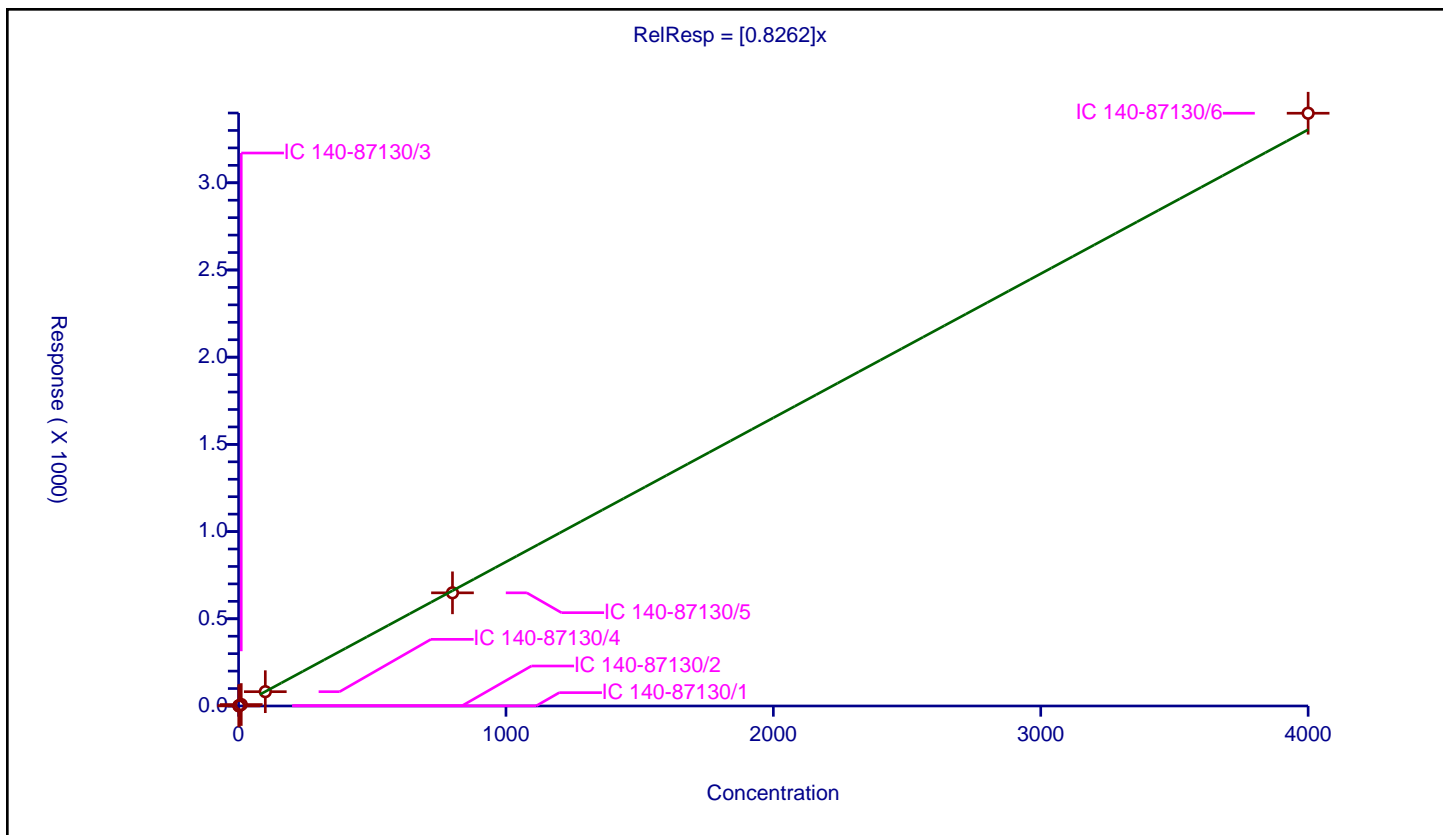
Curve Coefficients

Intercept: 0
 Slope: 0.8262

Error Coefficients

Relative Standard Deviation: 1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.825603	100.0	6938320.0	0.825603	Y
2	IC 140-87130/2	2.0	1.631167	100.0	6240748.0	0.815583	Y
3	IC 140-87130/3	10.0	8.347532	100.0	6307301.0	0.834753	Y
4	IC 140-87130/4	100.0	82.021111	100.0	6455349.0	0.820211	Y
5	IC 140-87130/5	800.0	648.883896	100.0	6672003.0	0.811105	Y
6	IC 140-87130/6	4000.0	3398.773116	100.0	6975966.0	0.849693	Y



Calibration

/ PCB-99

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

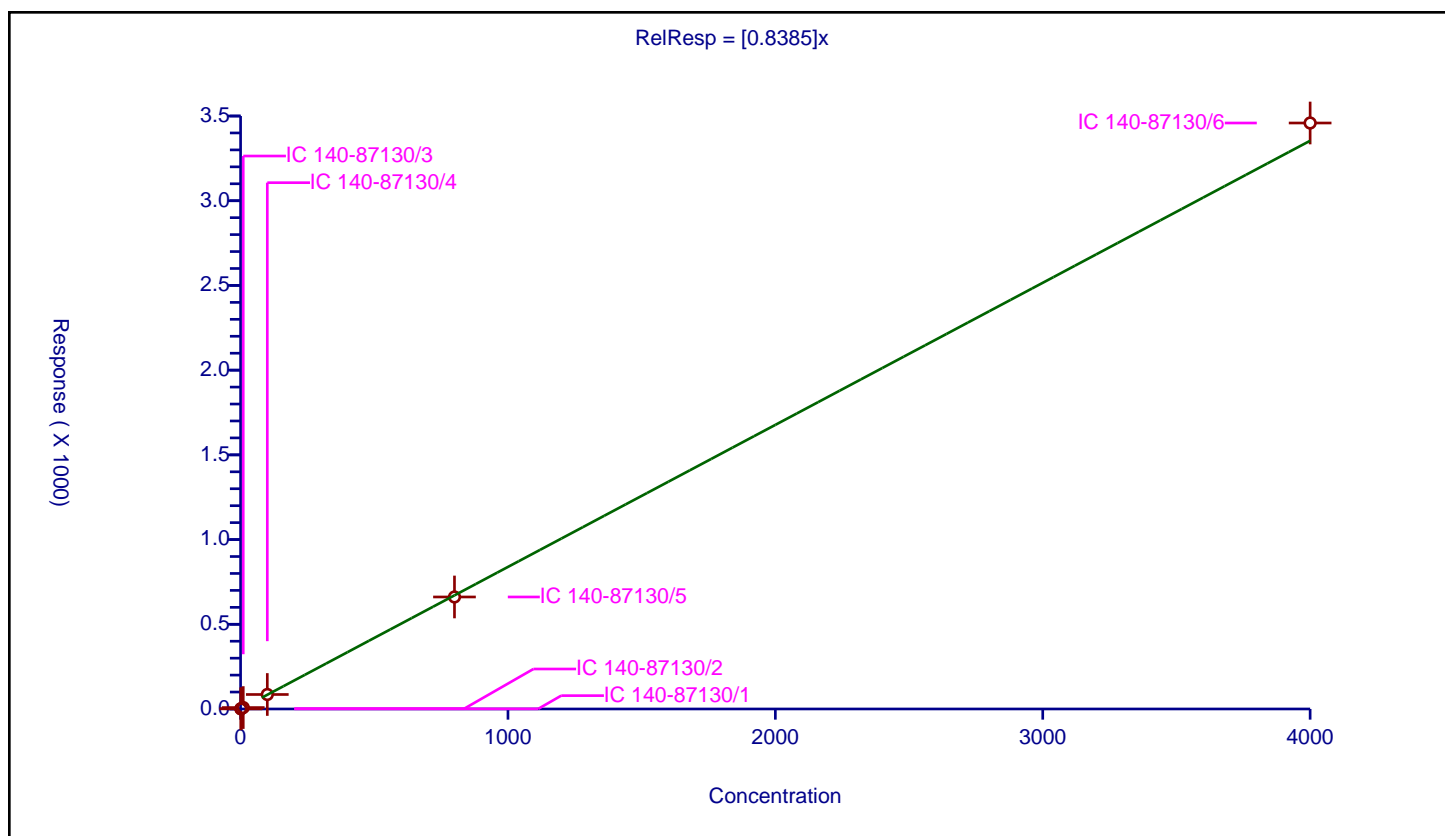
Curve Coefficients

Intercept: 0
Slope: 0.8385

Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.833516	100.0	6938320.0	0.833516	Y
2	IC 140-87130/2	2.0	1.623187	100.0	6240748.0	0.811593	Y
3	IC 140-87130/3	10.0	8.385393	100.0	6307301.0	0.838539	Y
4	IC 140-87130/4	100.0	85.61991	100.0	6455349.0	0.856199	Y
5	IC 140-87130/5	800.0	661.180518	100.0	6672003.0	0.826476	Y
6	IC 140-87130/6	4000.0	3458.757009	100.0	6975966.0	0.864689	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID (1): WDMCCV 140-87502/1 Instrument ID (1): D2D
GC Column (1): SPB-Octyl ID: 0.25 (mm) Date Analyzed (1): 06/11/2024 09:41

ANALYTE	RT	RESOLUTION (%)
PCB-34	21.57	8
PCB-187	40.96	3

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System
Injection Vol: 1.0 ul
Method: PCBs_D2D

ALS Bottle#: 0 Worklist Smp#: 1
Column: SPB-Octyl (0.25 mm)
Limit Group: HR - EPA_23 PCB ICAL

PCB-34 - PCB-23, Signal: 2

Isotopic Dilution PCB Method

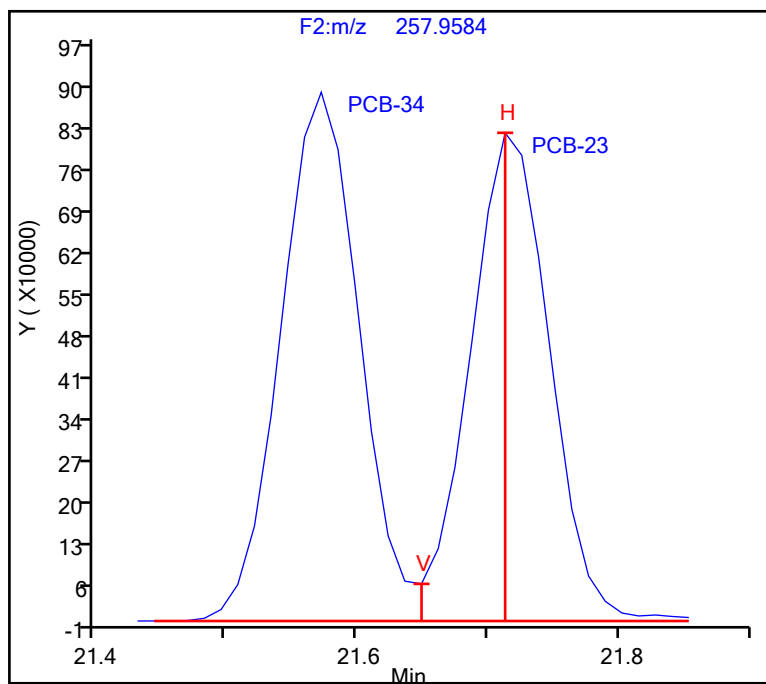
$$\%R = (V / H) * 100$$

V (Valley Height) = 62298

H (Peak Height) = 818740

$$\%R = 8 \leq 40$$

Passed



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System
Injection Vol: 1.0 ul
Method: PCBs_D2D

ALS Bottle#: 0 Worklist Smp#: 1
Column: SPB-Octyl (0.25 mm)
Limit Group: HR - EPA_23 PCB ICAL

PCB-187 - PCB-182, Signal: 2

Isotopic Dilution PCB Method

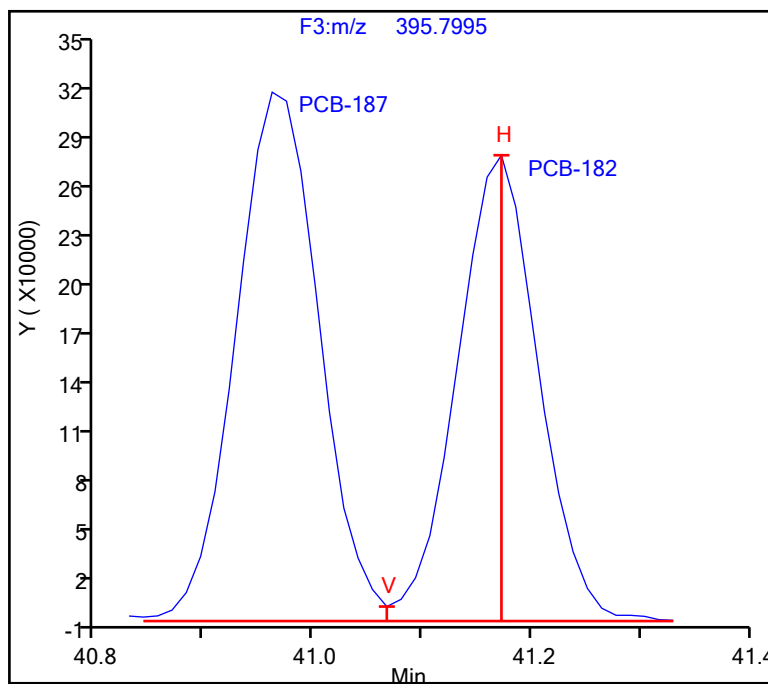
$$\%R = (V / H) * 100$$

V (Valley Height) = 8540

H (Peak Height) = 274010

$$\%R = 3 \leq 40$$

Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID (1): WDMCCV 140-87536/1 Instrument ID (1): D2D
GC Column (1): SPB-Octyl ID: 0.25 (mm) Date Analyzed (1): 06/11/2024 21:36

ANALYTE	RT	RESOLUTION (%)
PCB-34	21.52	7
PCB-187	40.91	4

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Column: SPB-Octyl (0.25 mm)
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL

PCB-34 - PCB-23, Signal: 2

Isotopic Dilution PCB Method

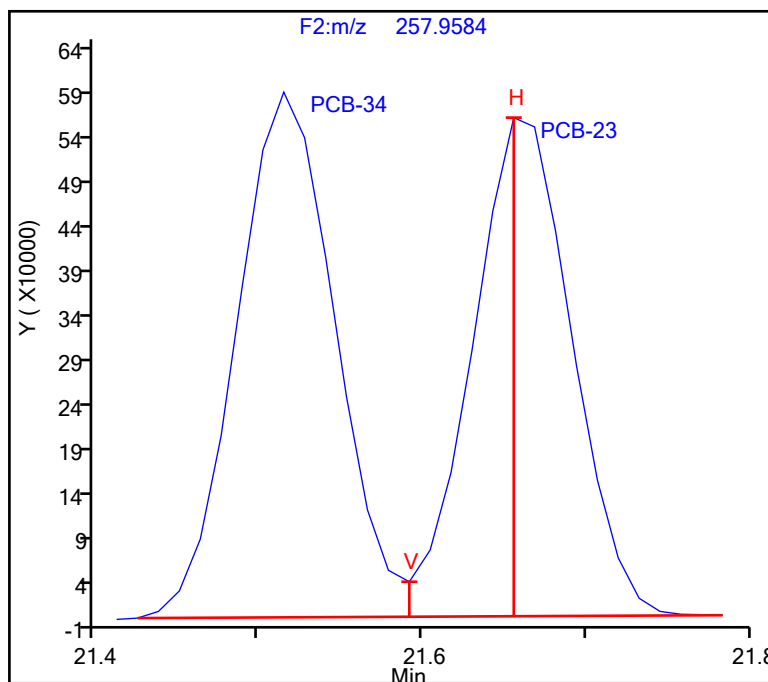
$$\%R = (V / H) * 100$$

V (Valley Height) = 38942

H (Peak Height) = 554655

$$\%R = 7 \leq 40$$

Passed



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Column: SPB-Octyl (0.25 mm)
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL

PCB-187 - PCB-182, Signal: 2

Isotopic Dilution PCB Method

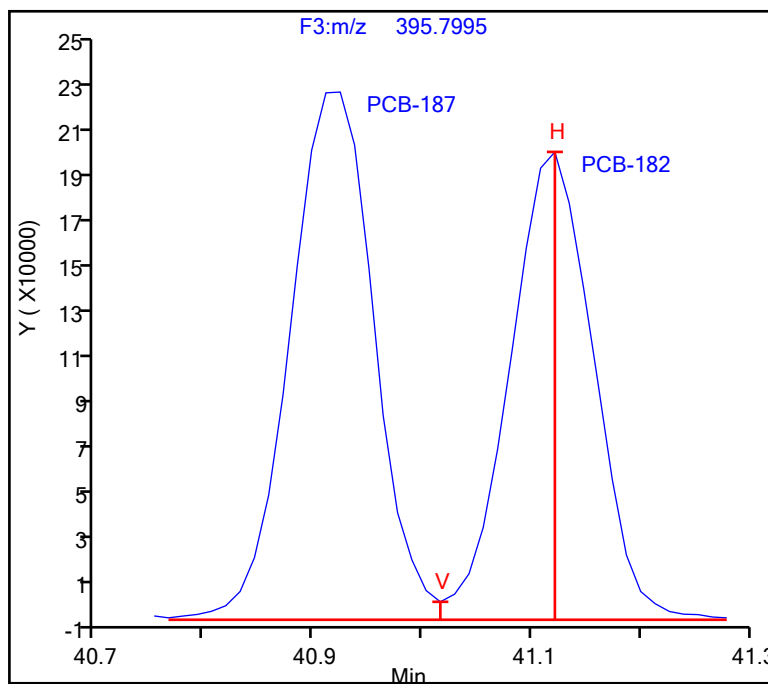
$$\%R = (V / H) * 100$$

V (Valley Height) = 7707

H (Peak Height) = 200944

$$\%R = 4 \leq 40$$

Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID (1): WDMCCV 140-87571/1 Instrument ID (1): D2D
GC Column (1): SPB-Octyl ID: 0.25 (mm) Date Analyzed (1): 06/12/2024 11:22

ANALYTE	RT	RESOLUTION (%)
PCB-34	21.52	8
PCB-187	40.90	5

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System
Injection Vol: 1.0 ul
Method: PCBs_D2D

ALS Bottle#: 0 Worklist Smp#: 1
Column: SPB-Octyl (0.25 mm)
Limit Group: HR - EPA_23 PCB ICAL

PCB-34 - PCB-23, Signal: 2

Isotopic Dilution PCB Method

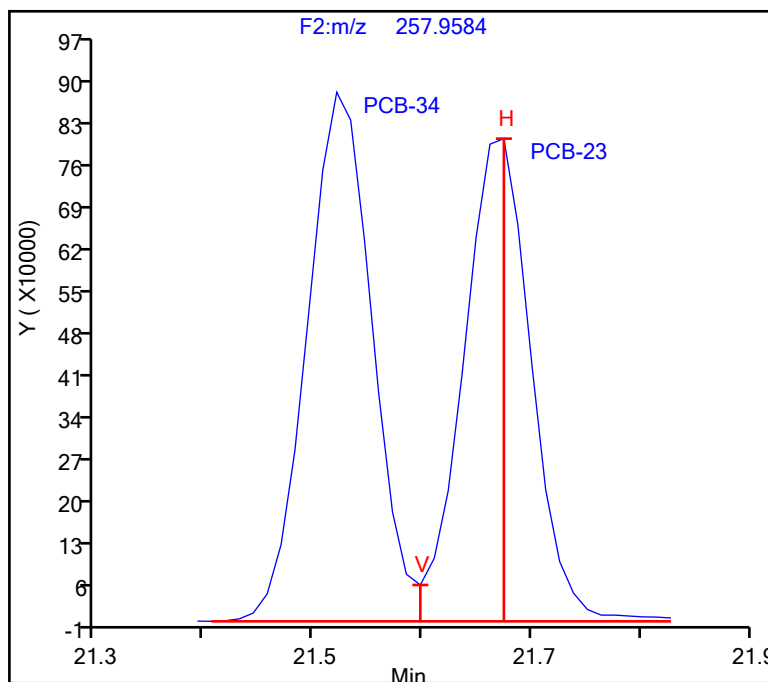
$$\%R = (V / H) * 100$$

V (Valley Height) = 60159

H (Peak Height) = 798911

$$\%R = 8 \leq 40$$

Passed



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System
Injection Vol: 1.0 ul
Method: PCBs_D2D

ALS Bottle#: 0 Worklist Smp#: 1
Column: SPB-Octyl (0.25 mm)
Limit Group: HR - EPA_23 PCB ICAL

PCB-187 - PCB-182, Signal: 2

Isotopic Dilution PCB Method

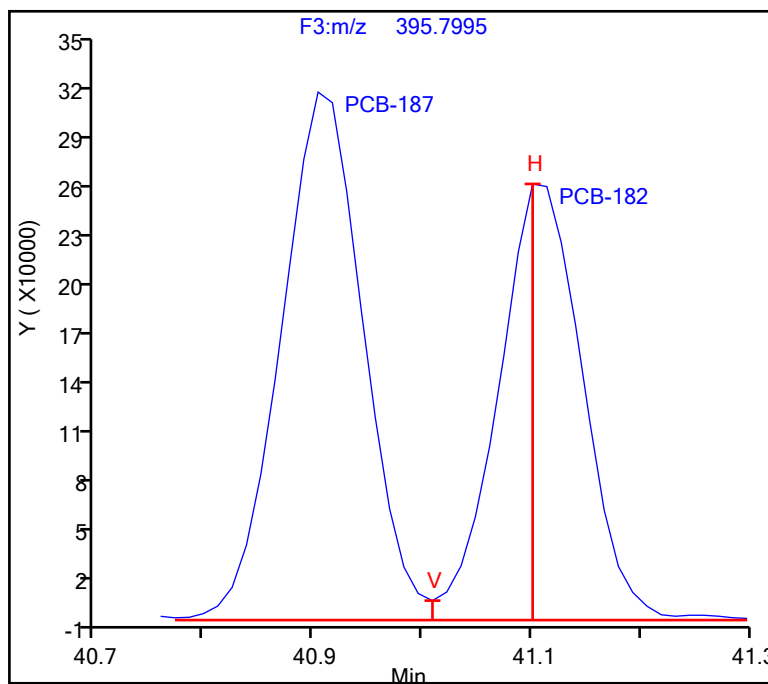
$$\%R = (V / H) * 100$$

V (Valley Height) = 11666

H (Peak Height) = 261289

$$\%R = 5 \leq 40$$

Passed



FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240531icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1L	Ave	1.611	1.602		99.4	100	-0.6	
PCB-3L	Ave	1.589	1.572		98.9	100	-1.1	
PCB-4L	Ave	0.6475	0.6470		99.9	100	-0.0	
PCB-19L	Ave	0.6285	0.6153		97.9	100	-2.1	
PCB-15L	Ave	1.079	1.068		99.0	100	-1.0	
PCB-54L	Ave	0.5562	0.5760		104	100	3.5	
PCB-104L	Ave	1.216	1.240		102	100	2.0	
PCB-37L	Ave	0.8749	0.8784		100	100	0.4	
PCB-155L	Ave	1.085	1.107		102	100	2.0	
PCB-81L	Ave	1.247	1.239		99.4	100	-0.6	
PCB-77L	Ave	1.321	1.319		99.8	100	-0.2	
PCB-123L	Ave	0.9731	0.9662		99.3	100	-0.7	
PCB-118L	Ave	1.010	1.010		100	100	0.0	
PCB-114L	Ave	0.9949	0.9887		99.4	100	-0.6	
PCB-188L	Ave	1.313	1.305		99.3	100	-0.7	
PCB-105L	Ave	0.9514	0.9507		99.9	100	-0.0	
PCB-126L	Ave	0.9439	0.9575		101	100	1.4	
PCB-202L	Ave	0.9818	0.9717		99.0	100	-1.0	
PCB-167L	Ave	1.257	1.287		102	100	2.3	
PCB-156L	Ave	1.211	1.226		203	200	1.3	
PCB-156L/157L	Ave	1.211	1.226		203	200	1.3	
PCB-157L	Ave	1.211	1.226		203	200	1.3	
PCB-170L	Ave	0.8362	0.8245		98.6	100	-1.4	
PCB-169L	Ave	1.244	1.250		101	100	0.5	
PCB-208L	Ave	0.9576	0.9509		99.3	100	-0.7	
PCB-189L	Ave	1.441	1.459		101	100	1.2	
PCB-205L	Ave	1.179	1.195		101	100	1.4	
PCB-206L	Ave	0.6947	0.7121		103	100	2.5	
PCB-209L	Ave	0.6669	0.6837		103	100	2.5	

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240531icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-1	AveID	1.219	1.149		47.1	50.0	94	70-130
PCB-2	AveID	1.181	1.115		47.2	50.0	94	70-130
PCB-3	AveID	1.221	1.170		47.9	50.0	96	70-130
PCB-4	AveID	1.282	1.154		45.0	50.0	90	70-130
PCB-10	AveID	1.315	1.428		54.3	50.0	109	70-130
PCB-9	AveID	1.422	1.369		48.1	50.0	96	70-130
PCB-7	AveID	1.413	1.412		49.9	50.0	100	70-130
PCB-6	AveID	1.542	1.393		45.2	50.0	90	70-130
PCB-5	AveID	1.339	1.380		51.5	50.0	103	70-130
PCB-8	AveID	1.589	1.481		46.6	50.0	93	70-130
PCB-19	AveID	1.281	1.218		47.5	50.0	95	70-130
PCB-14	AveID	1.402	1.395		49.8	50.0	99	70-130
PCB-18	AveID	1.765	1.608		91.1	100	91	70-130
PCB-18/30	AveID	1.765	1.608		91.1	100	91	70-130
PCB-30	AveID	1.765	1.608		91.1	100	91	70-130
PCB-11	AveID	1.295	1.339		51.7	50.0	103	70-130
PCB-17	AveID	1.243	1.402		56.4	50.0	113	70-130
PCB-12	AveID	1.336	1.487		111	100	111	70-130
PCB-12/13	AveID	1.336	1.487		111	100	111	70-130
PCB-13	AveID	1.336	1.487		111	100	111	70-130
PCB-27	AveID	1.833	1.850		50.5	50.0	101	70-130
PCB-24	AveID	1.678	1.757		52.4	50.0	105	70-130
PCB-16	AveID	1.129	1.193		52.9	50.0	106	70-130
PCB-15	AveID	1.290	1.218		47.2	50.0	94	70-130
PCB-54	AveID	1.273	1.393		109	100	109	70-130
PCB-32	AveID	1.832	1.953		53.3	50.0	107	70-130
PCB-34	AveID	1.128	1.077		47.7	50.0	95	70-130
PCB-23	AveID	1.081	1.073		49.6	50.0	99	70-130
PCB-26	AveID	1.125	1.136		101	100	101	70-130
PCB-26/29	AveID	1.125	1.136		101	100	101	70-130
PCB-29	AveID	1.125	1.136		101	100	101	70-130
PCB-25	AveID	1.273	1.217		47.8	50.0	96	70-130
PCB-50	AveID	0.8578	0.8549		199	200	100	70-130
PCB-50/53	AveID	0.8578	0.8549		199	200	100	70-130
PCB-53	AveID	0.8578	0.8549		199	200	100	70-130
PCB-31	AveID	1.153	1.163		50.4	50.0	101	70-130
PCB-20	AveID	1.172	1.133		96.7	100	97	70-130
PCB-20/28	AveID	1.172	1.133		96.7	100	97	70-130
PCB-28	AveID	1.172	1.133		96.7	100	97	70-130
PCB-21	AveID	1.075	1.145		107	100	107	70-130
PCB-21/33	AveID	1.075	1.145		107	100	107	70-130

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240531icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-33	AveID	1.075	1.145		107	100	107	70-130
PCB-45	AveID	0.8264	0.8245		200	200	100	70-130
PCB-45/51	AveID	0.8264	0.8245		200	200	100	70-130
PCB-51	AveID	0.8264	0.8245		200	200	100	70-130
PCB-46	AveID	0.7101	0.7715		109	100	109	70-130
PCB-22	AveID	1.193	1.041		43.6	50.0	87	70-130
PCB-52	AveID	0.9194	0.8343		90.7	100	91	70-130
PCB-43	AveID	1.033	0.9371		181	200	91	70-130
PCB-43/73	AveID	1.033	0.9371		181	200	91	70-130
PCB-73	AveID	1.033	0.9371		181	200	91	70-130
PCB-36	AveID	1.107	1.255		56.7	50.0	113	70-130
PCB-49	AveID	1.069	1.049		196	200	98	70-130
PCB-49/69	AveID	1.069	1.049		196	200	98	70-130
PCB-69	AveID	1.069	1.049		196	200	98	70-130
PCB-39	AveID	1.158	1.078		46.5	50.0	93	70-130
PCB-48	AveID	0.8399	0.8578		102	100	102	70-130
PCB-104	AveID	1.009	1.263		125	100	125	70-130
PCB-44	AveID	0.9731	0.9426		291	300	97	70-130
PCB-44/47/65	AveID	0.9731	0.9426		291	300	97	70-130
PCB-47	AveID	0.9731	0.9426		291	300	97	70-130
PCB-65	AveID	0.9731	0.9426		291	300	97	70-130
PCB-38	AveID	1.084	1.160		53.5	50.0	107	70-130
PCB-96	AveID	1.094	1.011		92.4	100	92	70-130
PCB-59	AveID	1.185	1.181		299	300	100	70-130
PCB-59/62/75	AveID	1.185	1.181		299	300	100	70-130
PCB-62	AveID	1.185	1.181		299	300	100	70-130
PCB-75	AveID	1.185	1.181		299	300	100	70-130
PCB-42	AveID	0.8097	0.7739		95.6	100	96	70-130
PCB-35	AveID	1.130	1.106		49.0	50.0	98	70-130
PCB-40	AveID	0.8863	0.8636		292	300	97	70-130
PCB-40/41/71	AveID	0.8863	0.8636		292	300	97	70-130
PCB-41	AveID	0.8863	0.8636		292	300	97	70-130
PCB-71	AveID	0.8863	0.8636		292	300	97	70-130
PCB-37	AveID	1.144	1.147		50.2	50.0	100	70-130
PCB-64	AveID	1.178	1.201		102	100	102	70-130
PCB-72	AveID	1.094	1.191		109	100	109	70-130
PCB-103	AveID	0.8741	0.8351		95.5	100	96	70-130
PCB-68	AveID	1.253	1.274		102	100	102	70-130
PCB-94	AveID	0.7640	0.7974		104	100	104	70-130
PCB-57	AveID	1.082	1.145		106	100	106	70-130
PCB-95	AveID	0.8033	0.7312		91.0	100	91	70-130

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-58	AveID	1.325	1.171		88.4	100	88	70-130
PCB-100	AveID	0.8429	0.8829		210	200	105	70-130
PCB-93	AveID	0.8429	0.8829		210	200	105	70-130
PCB-93/100	AveID	0.8429	0.8829		210	200	105	70-130
PCB-67	AveID	1.423	1.417		99.6	100	100	70-130
PCB-102	AveID	0.8262	0.8523		206	200	103	70-130
PCB-98	AveID	0.8262	0.8523		206	200	103	70-130
PCB-98/102	AveID	0.8262	0.8523		206	200	103	70-130
PCB-63	AveID	1.124	1.232		110	100	110	70-130
PCB-88	AveID	0.8013	0.7989		199	200	100	70-130
PCB-88/91	AveID	0.8013	0.7989		199	200	100	70-130
PCB-91	AveID	0.8013	0.7989		199	200	100	70-130
PCB-61	AveID	1.261	1.191		378	400	94	70-130
PCB-61/70/74/76	AveID	1.261	1.191		378	400	94	70-130
PCB-70	AveID	1.261	1.191		378	400	94	70-130
PCB-74	AveID	1.261	1.191		378	400	94	70-130
PCB-76	AveID	1.261	1.191		378	400	94	70-130
PCB-84	AveID	0.7299	0.8132		111	100	111	70-130
PCB-66	AveID	1.258	1.208		96.0	100	96	70-130
PCB-55	AveID	1.324	1.110		83.9	100	84	70-130
PCB-89	AveID	0.7798	0.6977		89.5	100	89	70-130
PCB-56	AveID	1.233	1.112		90.1	100	90	70-130
PCB-121	AveID	1.296	1.173		90.5	100	91	70-130
PCB-60	AveID	1.123	1.177		105	100	105	70-130
PCB-92	AveID	0.8546	0.7291		85.3	100	85	70-130
PCB-80	AveID	1.324	1.414		107	100	107	70-130
PCB-155	AveID	0.9444	1.062		113	100	112	70-130
PCB-152	AveID	0.9895	0.9505		96.1	100	96	70-130
PCB-101	AveID	0.9550	0.9763		307	300	102	70-130
PCB-113	AveID	0.9550	0.9763		307	300	102	70-130
PCB-90	AveID	0.9550	0.9763		307	300	102	70-130
PCB-90/101/113	AveID	0.9550	0.9763		307	300	102	70-130
PCB-150	AveID	1.013	1.069		106	100	105	70-130
PCB-136	AveID	1.012	0.9664		95.5	100	96	70-130
PCB-83	AveID	0.8385	0.7949		190	200	95	70-130
PCB-83/99	AveID	0.8385	0.7949		190	200	95	70-130
PCB-99	AveID	0.8385	0.7949		190	200	95	70-130
PCB-112	AveID	1.411	1.291		91.5	100	91	70-130
PCB-145	AveID	0.9685	1.019		105	100	105	70-130
PCB-109	AveID	1.047	1.001		574	600	96	70-130
PCB-119	AveID	1.047	1.001		574	600	96	70-130

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-125	AveID	1.047	1.001		574	600	96	70-130
PCB-79	AveID	1.437	1.400		97.4	100	97	70-130
PCB-86	AveID	1.047	1.001		574	600	96	70-130
PCB-86/87/97/109/119/125	AveID	1.047	1.001		574	600	96	70-130
PCB-87	AveID	1.047	1.001		574	600	96	70-130
PCB-97	AveID	1.047	1.001		574	600	96	70-130
PCB-78	AveID	1.162	1.065		91.7	100	92	70-130
PCB-116	AveID	1.041	1.039		300	300	100	70-130
PCB-117	AveID	1.041	1.039		300	300	100	70-130
PCB-85	AveID	1.041	1.039		300	300	100	70-130
PCB-85/116/117	AveID	1.041	1.039		300	300	100	70-130
PCB-110	AveID	1.192	1.118		188	200	94	70-130
PCB-110/115	AveID	1.192	1.118		188	200	94	70-130
PCB-115	AveID	1.192	1.118		188	200	94	70-130
PCB-81	AveID	1.080	1.082		100	100	100	70-130
PCB-82	AveID	0.8303	0.7499		90.3	100	90	70-130
PCB-148	AveID	0.7603	0.7170		94.3	100	94	70-130
PCB-77	AveID	1.084	1.123		104	100	104	70-130
PCB-111	AveID	1.213	1.220		101	100	101	70-130
PCB-135	AveID	0.7256	0.7119		196	200	98	70-130
PCB-135/151	AveID	0.7256	0.7119		196	200	98	70-130
PCB-151	AveID	0.7256	0.7119		196	200	98	70-130
PCB-120	AveID	1.476	1.168		79.1	100	79	70-130
PCB-154	AveID	0.8129	0.9550		118	100	117	70-130
PCB-144	AveID	0.7852	0.7252		92.4	100	92	70-130
PCB-147	AveID	0.8950	0.9068		203	200	101	70-130
PCB-147/149	AveID	0.8950	0.9068		203	200	101	70-130
PCB-149	AveID	0.8950	0.9068		203	200	101	70-130
PCB-134	AveID	0.7967	0.7322		184	200	92	70-130
PCB-134/143	AveID	0.7967	0.7322		184	200	92	70-130
PCB-143	AveID	0.7967	0.7322		184	200	92	70-130
PCB-108	AveID	1.141	1.092		192	200	96	70-130
PCB-108/124	AveID	1.141	1.092		192	200	96	70-130
PCB-124	AveID	1.141	1.092		192	200	96	70-130
PCB-139	AveID	0.8769	0.9117		208	200	104	70-130
PCB-139/140	AveID	0.8769	0.9117		208	200	104	70-130
PCB-140	AveID	0.8769	0.9117		208	200	104	70-130
PCB-107	AveID	1.212	1.347		111	100	111	70-130
PCB-131	AveID	0.7503	0.7482		99.7	100	100	70-130
PCB-123	AveID	1.072	1.170		109	100	109	70-130
PCB-106	AveID	1.084	1.036		95.6	100	96	70-130

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-142	AveID	0.7507	0.7009		93.4	100	93	70-130
PCB-118	AveID	1.206	1.164		96.6	100	97	70-130
PCB-132	AveID	0.7489	0.7731		103	100	103	70-130
PCB-122	AveID	0.9567	0.8244		86.2	100	86	70-130
PCB-114	AveID	1.084	1.198		111	100	110	70-130
PCB-188	AveID	1.135	1.094		96.4	100	96	70-130
PCB-133	AveID	0.8096	0.7674		94.8	100	95	70-130
PCB-179	AveID	1.428	1.355		95.0	100	95	70-130
PCB-165	AveID	1.025	1.035		101	100	101	70-130
PCB-105	AveID	1.188	1.019		85.8	100	86	70-130
PCB-146	AveID	0.9637	0.997		103	100	103	70-130
PCB-184	AveID	1.367	1.441		105	100	105	70-130
PCB-161	AveID	1.129	1.137		101	100	101	70-130
PCB-176	AveID	1.233	1.339		109	100	109	70-130
PCB-153	AveID	1.094	1.059		194	200	97	70-130
PCB-153/168	AveID	1.094	1.059		194	200	97	70-130
PCB-168	AveID	1.094	1.059		194	200	97	70-130
PCB-141	AveID	0.8755	0.9597		110	100	110	70-130
PCB-186	AveID	1.474	1.315		89.2	100	89	70-130
PCB-130	AveID	0.7051	0.7475		106	100	106	70-130
PCB-127	AveID	1.139	1.130		99.2	100	99	70-130
PCB-137	AveID	0.7767	0.8332		107	100	107	70-130
PCB-164	AveID	1.038	1.221		118	100	118	70-130
PCB-129	AveID	0.9464	0.9336		395	400	99	70-130
PCB-129/138/160/163	AveID	0.9464	0.9336		395	400	99	70-130
PCB-138	AveID	0.9464	0.9336		395	400	99	70-130
PCB-160	AveID	0.9464	0.9336		395	400	99	70-130
PCB-163	AveID	0.9464	0.9336		395	400	99	70-130
PCB-158	AveID	1.311	1.375		105	100	105	70-130
PCB-178	AveID	0.8946	0.9371		105	100	105	70-130
PCB-175	AveID	0.9524	1.006		106	100	106	70-130
PCB-126	AveID	1.098	1.156		105	100	105	70-130
PCB-128	AveID	0.9829	1.021		208	200	104	70-130
PCB-128/166	AveID	0.9829	1.021		208	200	104	70-130
PCB-166	AveID	0.9829	1.021		208	200	104	70-130
PCB-187	AveID	1.102	1.066		96.8	100	97	70-130
PCB-182	AveID	0.9247	1.108		120	100	120	70-130
PCB-183	AveID	0.9825	1.030		210	200	105	70-130
PCB-183/185	AveID	0.9825	1.030		210	200	105	70-130
PCB-185	AveID	0.9825	1.030		210	200	105	70-130
PCB-174	AveID	0.9642	1.059		110	100	110	70-130

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-159	AveID	1.386	1.223		88.3	100	88	70-130
PCB-162	AveID	1.257	1.256		99.9	100	100	70-130
PCB-177	AveID	0.9773	0.9705		99.3	100	99	70-130
PCB-202	AveID	1.036	1.147		166	150	111	70-130
PCB-167	AveID	1.116			105	100	105	70-130
PCB-181	AveID	0.9505	0.9734		102	100	102	70-130
PCB-171	AveID	0.9336	0.9451		202	200	101	70-130
PCB-171/173	AveID	0.9336	0.9451		202	200	101	70-130
PCB-173	AveID	0.9336	0.9451		202	200	101	70-130
PCB-201	AveID	0.9754	1.182		182	150	121	70-130
PCB-156	AveID	1.110	1.136		205	200	102	70-130
PCB-156/157	AveID	1.110	1.136		205	200	102	70-130
PCB-157	AveID	1.110	1.136		205	200	102	70-130
PCB-204	AveID	1.049	1.143		164	150	109	70-130
PCB-197	AveID	1.146	1.072		140	150	94	70-130
PCB-200	AveID	1.007	1.121		167	150	111	70-130
PCB-172	AveID	0.8519	0.9291		109	100	109	70-130
PCB-192	AveID	1.346	1.188		88.3	100	88	70-130
PCB-180	AveID	1.168	1.237		212	200	106	70-130
PCB-180/193	AveID	1.168	1.237		212	200	106	70-130
PCB-193	AveID	1.168	1.237		212	200	106	70-130
PCB-191	AveID	1.289	1.335		104	100	104	70-130
PCB-170	AveID	1.187	1.248		105	100	105	70-130
PCB-190	AveID	1.332	1.297		97.4	100	97	70-130
PCB-169	AveID	1.163	1.151		99.0	100	99	70-130
PCB-198	AveID	0.8698	0.7707		266	300	89	70-130
PCB-198/199	AveID	0.8698	0.7707		266	300	89	70-130
PCB-199	AveID	0.8698	0.7707		266	300	89	70-130
PCB-196	AveID	0.7806	0.8313		160	150	106	70-130
PCB-203	AveID	0.9292	0.8581		139	150	92	70-130
PCB-208	AveID	1.137	1.121		148	150	99	70-130
PCB-195	AveID	0.8263	0.7848		143	150	95	70-130
PCB-189	AveID	0.9633	1.028		107	100	107	70-130
PCB-207	AveID	1.376	1.307		143	150	95	70-130
PCB-194	AveID	0.9735	0.9023		139	150	93	70-130
PCB-205	AveID	1.088	1.125		155	150	103	70-130
PCB-206	AveID	1.335	1.185		133	150	89	70-130
PCB-209	AveID	1.100	1.108		151	150	101	70-130
PCB-8L	AveID	1.207	1.152		47.8	50.0	96	70-130
PCB-28L	Ave	1.049	0.9712		46.3	50.0	93	70-130
PCB-95L	AveID	0.7218	0.6977		48.3	50.0	97	70-130

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-79L	AveID	1.002	0.9895		49.4	50.0	99	70-130
PCB-111L	Ave	1.370	1.294		47.2	50.0	94	70-130
PCB-153L	AveID	0.9169	0.8168		44.5	50.0	89	70-130
PCB-178L	Ave	1.031	0.9547		46.3	50.0	93	70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 31-May-2024 22:58:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-007
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist:
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 25-Jun-2024 14:34:14 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last Ical File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1632

First Level Reviewer: P0IK

Date: 01-Jun-2024 11:13:58

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					142.3	142.3	0.1520	0.1520		
D PCB-1L	11:36	13414069	3.05	1.6108	99.4	99.4	0.3050	0.3050	99.43	
D PCB-3L	13:45	13162192	3.20	1.5891	98.9	98.9	0.3091	0.3091	98.89	
PCB-1	11:36	7705547	3.15	1.2191	47.1	47.1	0.1363	0.1363	94.24	
PCB-2	13:35	7406759	3.15	1.1805	47.2	47.2	0.1544	0.1544	94.43	
PCB-3	13:46	7702403	3.18	1.2206	47.9	47.9	0.1655	0.1655	95.89	
S Total Dichlorobiphenyls					600.7	600.7	0.0371	0.0371		
D PCB-4L	14:00	5419001	1.61	0.6475	99.9	99.9	0.2147	0.2147	99.92	
* PCB-9L	15:58	8375462	1.59		100.0	100.0				
\$ PCB-8L	16:48	4139554	1.62	1.2066	47.8	47.8	0.1418	0.1418	95.51	
D PCB-15L	19:53	8949015	1.65	1.0789	99.0	99.0	0.1288	0.1288	99.03	
PCB-4	14:01	3127338	1.60	1.2818	45.0	45.0	0.0447	0.0447	90.04	
PCB-10	14:11	5130776	1.61	1.3149	54.3	54.3	0.0388	0.0388	109	
PCB-9	15:59	4916901	1.64	1.4224	48.1	48.1	0.0359	0.0359	96.23	
PCB-7	16:09	5070472	1.57	1.4134	49.9	49.9	0.0361	0.0361	99.87	
PCB-6	16:23	5004501	1.60	1.5421	45.2	45.2	0.0331	0.0331	90.35	
PCB-5	16:42	4956608	1.59	1.3395	51.5	51.5	0.0381	0.0381	103	
PCB-8	16:50	5320885	1.59	1.5889	46.6	46.6	0.0321	0.0321	93.23	
PCB-14	18:27	5012029	1.59	1.4025	49.7	49.7	0.0364	0.0364	99.49	
PCB-11	19:17	4810913	1.59	1.2951	51.7	51.7	0.0394	0.0394	103	
PCB-12	19:35	10683830	1.59	1.3358	111.3	111.3	0.0382	0.0382	111	
PCB-13 (C12)	19:35	10683830	1.59	1.3358	111.3	111.3	0.0382	0.0382	111	
PCB-15	19:54	5451192	1.60	1.2903	47.2	47.2	0.0356	0.0356	94.42	
S Total Trichlorobiphenyls					1203.3	1203.3	0.6825	0.6825		
D PCB-19L	17:06	3365213	1.06	0.6285	97.9	97.9	0.4414	0.4414	97.89	
* PCB-32L	20:22	5469284	1.12		100.0	100.0				
* PCB-31L	22:37	15618533	1.05		100.0	100.0				
\$ PCB-28L	22:55	7584009	1.04	1.0494	46.3	46.3	0.0861	0.0861	92.54	
D PCB-37L	26:54	13719981	1.07	0.8749	100.4	100.4	0.1032	0.1032	100	
PCB-19	17:08	2049308	1.04	1.2809	47.5	47.5	0.0689	0.0689	95.08	
PCB-18	18:57	5412289	1.06	1.7652	91.1	91.1	0.0500	0.0500	91.11	
PCB-30 (C18)	18:57	5412289	1.06	1.7652	91.1	91.1	0.0500	0.0500	91.11	
PCB-17	19:24	2359724	1.04	1.2430	56.4	56.4	0.0710	0.0710	113	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:38	3112171	1.03	1.8327	50.5	50.5	0.0481	0.0481	101	
PCB-24	19:45	2956499	1.04	1.6777	52.4	52.4	0.0526	0.0526	105	
PCB-16	19:52	2007108	1.05	1.1286	52.8	52.8	0.0782	0.0782	106	
PCB-32	20:23	3286329	1.05	1.8324	53.3	53.3	0.0481	0.0481	107	
PCB-34	21:38	7386673	1.06	1.1277	47.7	47.7	1.027	1.027	95.48	
PCB-23	21:47	7363564	1.07	1.0813	49.6	49.6	1.071	1.071	99.27	
PCB-26	22:07	15586173	1.05	1.1255	100.9	100.9	1.029	1.029	101	
PCB-29 (C26)	22:07	15586173	1.05	1.1255	100.9	100.9	1.029	1.029	101	
PCB-25	22:20	8348692	1.06	1.2728	47.8	47.8	0.9102	0.9102	95.62	
PCB-31	22:38	7977672	1.05	1.1532	50.4	50.4	1.005	1.005	101	
PCB-20	22:57	15549506	1.06	1.1718	96.7	96.7	0.9886	0.9886	96.72	
PCB-28 (C20)	22:57	15549506	1.06	1.1718	96.7	96.7	0.9886	0.9886	96.72	
PCB-21	23:06	15708308	1.03	1.0746	106.5	106.5	1.078	1.078	107	M
PCB-33 (C21)	23:06	15708308	1.03	1.0746	106.5	106.5	1.078	1.078	107	M
PCB-22	23:34	7141111	1.05	1.1932	43.6	43.6	0.9709	0.9709	87.24	
PCB-36	25:08	8610244	1.12	1.1071	56.7	56.7	1.046	1.046	113	
PCB-39	25:29	7392700	1.04	1.1581	46.5	46.5	1.000	1.000	93.05	
PCB-38	26:04	7958217	1.06	1.0843	53.5	53.5	1.068	1.068	107	
PCB-35	26:31	7588192	1.07	1.1297	49.0	49.0	1.025	1.025	97.92	
PCB-37	26:56	7868173	1.06	1.1435	50.2	50.2	1.013	1.013	100	
S Total Tetrachlorobiphenyls					4133.2	4133.2	0.7839	0.7839		
D PCB-54L	20:11	3150116	0.82	0.5562	103.5	103.5	0.0525	0.0525	104	
* PCB-52L	24:45	7783825	0.80		100.0	100.0				
\$ PCB-79L	32:41	4925323	0.80	1.0018	49.4	49.4	0.3933	0.3933	98.77	
D PCB-81L	33:40	9646433	0.81	1.2470	99.4	99.4	0.3558	0.3558	99.39	
D PCB-77L	34:13	10262985	0.80	1.3212	99.8	99.8	0.3358	0.3358	99.80	
PCB-54	20:12	4387976	0.79	1.2733	109.4	109.4	0.0935	0.0935	109	
PCB-50	22:23	17020303	0.79	0.8578	199.3	199.3	1.006	1.006	99.66	
PCB-53 (C50)	22:23	17020303	0.79	0.8578	199.3	199.3	1.006	1.006	99.66	
PCB-45	23:06	16414642	0.79	0.8264	199.5	199.5	1.044	1.044	99.76	M
PCB-51 (C45)	23:06	16414642	0.79	0.8264	199.5	199.5	1.044	1.044	99.76	M
PCB-46	23:21	7680120	0.79	0.7101	108.6	108.6	1.215	1.215	109	
PCB-52	24:46	8305512	0.80	0.9194	90.7	90.7	0.9384	0.9384	90.74	
PCB-43	24:55	18656318	0.79	1.0333	181.4	181.4	0.8350	0.8350	90.68	M
PCB-73 (C43)	24:55	18656318	0.79	1.0333	181.4	181.4	0.8350	0.8350	90.68	M
PCB-49	25:13	20893404	0.79	1.0685	196.4	196.4	0.8075	0.8075	98.21	
PCB-69 (C49)	25:13	20893404	0.79	1.0685	196.4	196.4	0.8075	0.8075	98.21	
PCB-48	25:32	8538932	0.79	0.8399	102.1	102.1	1.027	1.027	102	
PCB-44	25:47	28148593	0.80	0.9731	290.6	290.6	0.8867	0.8867	96.86	
PCB-47 (C44)	25:47	28148593	0.80	0.9731	290.6	290.6	0.8867	0.8867	96.86	
PCB-65 (C44)	25:47	28148593	0.80	0.9731	290.6	290.6	0.8867	0.8867	96.86	
PCB-59	26:05	35280314	0.80	1.1853	299.0	299.0	0.7280	0.7280	99.67	
PCB-62 (C59)	26:05	35280314	0.80	1.1853	299.0	299.0	0.7280	0.7280	99.67	
PCB-75 (C59)	26:05	35280314	0.80	1.1853	299.0	299.0	0.7280	0.7280	99.67	
PCB-42	26:18	7704424	0.77	0.8097	95.6	95.6	1.066	1.066	95.59	
PCB-40	26:47	25791445	0.80	0.8863	292.3	292.3	0.9735	0.9735	97.44	M
PCB-41 (C40)	26:47	25791445	0.80	0.8863	292.3	292.3	0.9735	0.9735	97.44	M
PCB-71 (C40)	26:47	25791445	0.80	0.8863	292.3	292.3	0.9735	0.9735	97.44	M
PCB-64	27:00	11956915	0.78	1.1776	102.0	102.0	0.7327	0.7327	102	
PCB-72	27:50	11854927	0.81	1.0943	108.8	108.8	0.7885	0.7885	109	
PCB-68	28:07	12678056	0.81	1.2533	101.6	101.6	0.6885	0.6885	102	
PCB-57	28:33	11397207	0.79	1.0818	105.8	105.8	0.7976	0.7976	106	
PCB-58	28:47	11659254	0.80	1.3253	88.4	88.4	0.6510	0.6510	88.37	
PCB-67	28:57	14108728	0.79	1.4230	99.6	99.6	0.6063	0.6063	99.60	
PCB-63	29:13	12259353	0.79	1.1240	109.6	109.6	0.7677	0.7677	110	
PCB-61	29:33	47420190	0.79	1.2612	377.7	377.7	0.6841	0.6841	94.42	
PCB-70 (C61)	29:33	47420190	0.79	1.2612	377.7	377.7	0.6841	0.6841	94.42	
PCB-74 (C61)	29:33	47420190	0.79	1.2612	377.7	377.7	0.6841	0.6841	94.42	
PCB-76 (C61)	29:33	47420190	0.79	1.2612	377.7	377.7	0.6841	0.6841	94.42	
PCB-66	29:52	12027199	0.79	1.2583	96.0	96.0	0.6857	0.6857	96.02	
PCB-55	30:02	11053300	0.79	1.3236	83.9	83.9	0.6519	0.6519	83.89	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:32	11065342	0.79	1.2334	90.1	90.1	0.6996	0.6996	90.12	
PCB-60	30:45	11714864	0.79	1.1230	104.8	104.8	0.7683	0.7683	105	
PCB-80	31:10	14080645	0.80	1.3243	106.8	106.8	0.6516	0.6516	107	
PCB-79	32:41	13935476	0.80	1.4368	97.4	97.4	0.6005	0.6005	97.43	
PCB-78	33:15	10602840	0.80	1.1618	91.7	91.7	0.7426	0.7426	91.67	
PCB-81	33:41	10440515	0.81	1.0802	100.2	100.2	0.8094	0.8094	100	
PCB-77	34:15	11527488	0.79	1.0836	103.7	103.7	0.7860	0.7860	104	
S Total Pentachlorobiphenyls					4510.1	4510.1	0.4493	0.4493		
D PCB-104L	25:41	6421083	1.59	1.2161	102.0	102.0	0.0354	0.0354	102	
\$ PCB-95L	28:40	2240078	1.60	0.7218	48.3	48.3	0.0427	0.0427	96.66	
* PCB-101L	31:36	5178918	1.59		100.0	100.0				
\$ PCB-111L	34:17	3351426	1.63	1.3699	47.2	47.2	0.0314	0.0314	94.48	
D PCB-123L	36:14	9572782	1.59	0.9731	99.3	99.3	1.187	1.187	99.29	
D PCB-118L	36:34	10007737	1.59	1.0102	100.0	100.0	1.143	1.143	100	
D PCB-114L	37:06	9795358	1.58	0.9949	99.4	99.4	1.161	1.161	99.38	
D PCB-105L	37:44	9418380	1.60	0.9514	99.9	99.9	1.214	1.214	99.92	
* PCB-127L	39:13	9907302	1.59		100.0	100.0				
D PCB-126L	40:50	9486247	1.59	0.9439	101.4	101.4	1.224	1.224	101	
PCB-104	25:43	8111515	1.58	1.0087	125.2	125.2	0.0552	0.0552	125	
PCB-96	26:04	6493983	1.57	1.0940	92.4	92.4	0.0509	0.0509	92.44	
PCB-103	28:01	5362312	1.59	0.8741	95.5	95.5	0.0637	0.0637	95.54	
PCB-94	28:15	5120381	1.56	0.7640	104.4	104.4	0.0728	0.0728	104	
PCB-95	28:41	4695325	1.57	0.8033	91.0	91.0	0.0693	0.0693	91.03	
PCB-93	28:54	11337838	1.58	0.8429	209.5	209.5	0.0660	0.0660	105	
PCB-100 (C93)	28:54	11337838	1.58	0.8429	209.5	209.5	0.0660	0.0660	105	
PCB-98	29:03	10945909	1.56	0.8262	206.3	206.3	0.0674	0.0674	103	M
PCB-102 (C98)	29:03	10945909	1.56	0.8262	206.3	206.3	0.0674	0.0674	103	M
PCB-88	29:33	10260203	1.58	0.8013	199.4	199.4	0.0695	0.0695	99.71	
PCB-91 (C88)	29:33	10260203	1.58	0.8013	199.4	199.4	0.0695	0.0695	99.71	
PCB-84	29:46	5221560	1.62	0.7299	111.4	111.4	0.0762	0.0762	111	
PCB-89	30:15	4480089	1.54	0.7798	89.5	89.5	0.0714	0.0714	89.47	
PCB-121	30:40	7533942	1.60	1.2964	90.5	90.5	0.0429	0.0429	90.51	
PCB-92	31:02	4681623	1.58	0.8546	85.3	85.3	0.0651	0.0651	85.32	
PCB-90	31:37	18807306	1.58	0.9550	306.7	306.7	0.0583	0.0583	102	
PCB-101 (C90)	31:37	18807306	1.58	0.9550	306.7	306.7	0.0583	0.0583	102	
PCB-113 (C90)	31:37	18807306	1.58	0.9550	306.7	306.7	0.0583	0.0583	102	
PCB-83	32:12	10207726	1.58	0.8385	189.6	189.6	0.0664	0.0664	94.80	
PCB-99 (C83)	32:12	10207726	1.58	0.8385	189.6	189.6	0.0664	0.0664	94.80	
PCB-112	32:19	8287611	1.60	1.4111	91.5	91.5	0.0394	0.0394	91.47	
PCB-86	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-87 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-97 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-109 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-119 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-125 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-85	33:24	20019818	1.59	1.0408	299.6	299.6	0.0535	0.0535	99.85	
PCB-116 (C85)	33:24	20019818	1.59	1.0408	299.6	299.6	0.0535	0.0535	99.85	
PCB-117 (C85)	33:24	20019818	1.59	1.0408	299.6	299.6	0.0535	0.0535	99.85	
PCB-110	33:37	14360543	1.58	1.1919	187.6	187.6	0.0467	0.0467	93.82	
PCB-115 (C110)	33:37	14360543	1.58	1.1919	187.6	187.6	0.0467	0.0467	93.82	
PCB-82	33:54	4814852	1.58	0.8303	90.3	90.3	0.0670	0.0670	90.31	
PCB-111	34:18	7831052	1.56	1.2125	100.6	100.6	0.0459	0.0459	101	
PCB-120	34:46	7497947	1.59	1.4762	79.1	79.1	0.0377	0.0377	79.10	
PCB-108	35:54	21095145	1.57	1.1405	191.5	191.5	1.237	1.237	95.77	
PCB-124 (C108)	35:54	21095145	1.57	1.1405	191.5	191.5	1.237	1.237	95.77	
PCB-107	36:09	13007450	1.56	1.2121	111.1	111.1	1.164	1.164	111	
PCB-123	36:16	11197845	1.57	1.0722	109.1	109.1	1.291	1.291	109	
PCB-106	36:22	10002249	1.58	1.0839	95.6	95.6	1.302	1.302	95.57	
PCB-118	36:35	11653704	1.56	1.2055	96.6	96.6	1.124	1.124	96.59	
PCB-122	36:56	7960489	1.57	0.9567	86.2	86.2	1.475	1.475	86.17	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:06	11734136	1.57	1.0842	110.5	110.5	1.295	1.295	110	
PCB-105	37:46	9597079	1.55	1.1879	85.8	85.8	1.213	1.213	85.78	
PCB-127	39:14	10912279	1.60	1.1394	99.2	99.2	1.239	1.239	99.18	
PCB-126	40:50	10965999	1.58	1.0976	105.3	105.3	1.350	1.350	105	
S Total Hexachlorobiphenyls					4243.4	4243.4	0.6932	0.6932		
D PCB-155L	31:22	5734390	1.30	1.0851	102.0	102.0	0.0185	0.0185	102	
\$ PCB-153L	38:27	3343428	1.30	0.9169	44.5	44.5	0.4214	0.4214	89.08	
* PCB-138L	39:41	6563932	1.28		100.0	100.0				
\$ PCB-159L	41:56	4312836	1.30	0.5118	99.8	99.8	0.6210	0.6210	99.77	
D PCB-167L	42:42	8445294	1.31	1.2572	102.3	102.3	0.3206	0.3206	102	
D PCB-156L	43:50	16094647	1.28	1.2106	202.5	202.5	0.3330	0.3330	101	
D PCB-157L (C156L)	43:50	16094647	1.28	1.2106	202.5	202.5	0.3330	0.3330	101	
D PCB-169L	47:04	8207279	1.29	1.2439	100.5	100.5	0.3241	0.3241	101	
PCB-155	31:24	6090078	1.28	0.9444	112.5	112.5	0.0796	0.0796	112	
PCB-152	31:35	5450811	1.27	0.9895	96.1	96.1	0.0760	0.0760	96.06	
PCB-150	31:45	6127358	1.25	1.0132	105.5	105.5	0.0742	0.0742	105	
PCB-136	32:07	5541573	1.28	1.0116	95.5	95.5	0.0744	0.0744	95.53	
PCB-145	32:24	5840861	1.26	0.9685	105.2	105.2	0.0777	0.0777	105	
PCB-148	33:56	4111619	1.25	0.7603	94.3	94.3	0.0989	0.0989	94.31	
PCB-135	34:34	8164147	1.26	0.7256	196.2	196.2	0.1037	0.1037	98.11	M
PCB-151 (C135)	34:34	8164147	1.26	0.7256	196.2	196.2	0.1037	0.1037	98.11	M
PCB-154	34:46	5476583	1.25	0.8129	117.5	117.5	0.0925	0.0925	117	
PCB-144	35:05	4158464	1.28	0.7852	92.4	92.4	0.0958	0.0958	92.35	
PCB-147	35:27	14847787	1.26	0.8950	202.6	202.6	0.9838	0.9838	101	
PCB-149 (C147)	35:27	14847787	1.26	0.8950	202.6	202.6	0.9838	0.9838	101	
PCB-134	35:44	11988900	1.25	0.7967	183.8	183.8	1.105	1.105	91.91	
PCB-143 (C134)	35:44	11988900	1.25	0.7967	183.8	183.8	1.105	1.105	91.91	
PCB-139	36:02	14927416	1.24	0.8769	207.9	207.9	1.004	1.004	104	
PCB-140 (C139)	36:02	14927416	1.24	0.8769	207.9	207.9	1.004	1.004	104	
PCB-131	36:14	6125595	1.25	0.7503	99.7	99.7	1.174	1.174	99.73	
PCB-142	36:23	5738296	1.24	0.7507	93.4	93.4	1.173	1.173	93.37	
PCB-132	36:42	6329307	1.24	0.7489	103.2	103.2	1.176	1.176	103	
PCB-133	37:13	6282580	1.24	0.8096	94.8	94.8	1.088	1.088	94.79	
PCB-165	37:36	8477247	1.26	1.0247	101.1	101.1	0.8592	0.8592	101	
PCB-146	37:51	8161387	1.24	0.9637	103.4	103.4	0.9137	0.9137	103	
PCB-161	37:59	9304402	1.25	1.1288	100.7	100.7	0.7800	0.7800	101	
PCB-153	38:30	17338020	1.25	1.0938	193.6	193.6	0.8050	0.8050	96.81	
PCB-168 (C153)	38:30	17338020	1.25	1.0938	193.6	193.6	0.8050	0.8050	96.81	
PCB-141	38:39	7856757	1.24	0.8755	109.6	109.6	1.006	1.006	110	
PCB-130	39:04	6119481	1.24	0.7051	106.0	106.0	1.249	1.249	106	
PCB-137	39:17	6821305	1.21	0.7767	107.3	107.3	1.134	1.134	107	
PCB-164	39:24	9995366	1.25	1.0382	117.6	117.6	0.8480	0.8480	118	
PCB-129	39:43	30572353	1.26	0.9464	394.6	394.6	0.9303	0.9303	98.65	M
PCB-138 (C129)	39:43	30572353	1.26	0.9464	394.6	394.6	0.9303	0.9303	98.65	M
PCB-160 (C129)	39:43	30572353	1.26	0.9464	394.6	394.6	0.9303	0.9303	98.65	M
PCB-163 (C129)	39:43	30572353	1.26	0.9464	394.6	394.6	0.9303	0.9303	98.65	M
PCB-158	40:06	11258096	1.24	1.3110	104.9	104.9	0.6716	0.6716	105	
PCB-128	40:57	16714613	1.24	0.9829	207.7	207.7	0.8958	0.8958	104	
PCB-166 (C128)	40:57	16714613	1.24	0.9829	207.7	207.7	0.8958	0.8958	104	
PCB-159	41:57	10014801	1.23	1.3856	88.3	88.3	0.6354	0.6354	88.28	
PCB-162	42:14	10282972	1.22	1.2571	99.9	99.9	0.7004	0.7004	99.92	
PCB-167	42:43	9852940	1.23	1.1159	104.6	104.6	0.6491	0.6491	105	
PCB-156	43:52	18279006	1.24	1.1104	204.6	204.6	0.9827	0.9827	102	
PCB-157 (C156)	43:52	18279006	1.24	1.1104	204.6	204.6	0.9827	0.9827	102	
PCB-169	47:05	9448864	1.27	1.1628	99.0	99.0	0.6468	0.6468	99.01	
S Total Heptachlorobiphenyls					2467.5	2467.5	0.0680	0.0680		
D PCB-188L	37:06	6609962	1.05	1.3133	99.3	99.3	0.0226	0.0226	99.34	
\$ PCB-178L	40:09	2418279	1.05	1.0313	46.3	46.3	0.0287	0.0287	92.57	
* PCB-180L	45:14	5066313	1.06		100.0	100.0				

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-170L	46:29	4177003	1.08	0.8362	98.6	98.6	0.0354	0.0354	98.60	
D PCB-189L	49:36	10375043	1.07	1.4414	101.2	101.2	0.3972	0.3972	101	
PCB-188	37:07	7230306	1.08	1.1350	96.4	96.4	0.0462	0.0462	96.38	
PCB-179	37:27	7310684	1.07	1.4276	94.9	94.9	0.0460	0.0460	94.95	
PCB-184	37:58	7772186	1.05	1.3672	105.4	105.4	0.0480	0.0480	105	
PCB-176	38:20	7223648	1.06	1.2331	108.6	108.6	0.0533	0.0533	109	
PCB-186	38:47	7091463	1.04	1.4737	89.2	89.2	0.0446	0.0446	89.22	
PCB-178	40:10	5054358	1.06	0.8946	104.8	104.8	0.0734	0.0734	105	
PCB-175	40:48	5425795	1.06	0.9524	105.6	105.6	0.0690	0.0690	106	
PCB-187	41:05	5750661	1.07	1.1018	96.8	96.8	0.0596	0.0596	96.77	
PCB-182	41:16	5978453	1.06	0.9247	119.9	119.9	0.0710	0.0710	120	
PCB-183	41:41	11114963	1.04	0.9825	209.8	209.8	0.0668	0.0668	105	M
PCB-185 (C183)	41:41	11114963	1.04	0.9825	209.8	209.8	0.0668	0.0668	105	M
PCB-174	41:55	5712753	1.07	0.9642	109.9	109.9	0.0681	0.0681	110	
PCB-177	42:21	5234215	0.99	0.9773	99.3	99.3	0.0672	0.0672	99.30	
PCB-181	42:45	5249952	1.06	0.9505	102.4	102.4	0.0691	0.0691	102	
PCB-171	42:58	10194311	1.05	0.9336	202.4	202.4	0.0703	0.0703	101	
PCB-173 (C171)	42:58	10194311	1.05	0.9336	202.4	202.4	0.0703	0.0703	101	
PCB-172	44:36	5010827	1.05	0.8519	109.1	109.1	0.0771	0.0771	109	
PCB-192	44:53	6407979	1.07	1.3459	88.3	88.3	0.0488	0.0488	88.28	
PCB-180	45:13	13348093	1.06	1.1676	212.0	212.0	0.0562	0.0562	106	
PCB-193 (C180)	45:13	13348093	1.06	1.1676	212.0	212.0	0.0562	0.0562	106	
PCB-191	45:37	7199239	1.06	1.2891	103.5	103.5	0.0509	0.0509	104	
PCB-170	46:30	5214600	1.04	1.1865	105.2	105.2	0.0741	0.0741	105	
PCB-190	47:02	6997680	1.06	1.3322	97.4	97.4	0.0493	0.0493	97.39	
PCB-189	49:38	10666309	1.05	0.9633	106.7	106.7	0.2183	0.2183	107	
S Total Octachlorobiphenyls					1819.4	1819.4	0.1226	0.1226		
D PCB-202L	42:27	4923092	0.90	0.9818	99.0	99.0	0.0140	0.0140	98.97	
* PCB-194L	51:43	7109366	0.91		100.0	100.0				
D PCB-205L	52:10	8498492	0.92	1.1786	101.4	101.4	0.0712	0.0712	101	
PCB-202	42:29	8468737	0.90	1.0359	166.1	166.1	0.0575	0.0575	111	
PCB-201	43:24	8730003	0.91	0.9754	181.8	181.8	0.0610	0.0610	121	
PCB-204	44:05	8442210	0.91	1.0485	163.5	163.5	0.0568	0.0568	109	
PCB-197	44:18	7912802	0.89	1.1458	140.3	140.3	0.0520	0.0520	93.52	
PCB-200	44:25	8280585	0.91	1.0072	167.0	167.0	0.0591	0.0591	111	
PCB-198	47:12	11381972	0.90	0.8698	265.8	265.8	0.0685	0.0685	88.60	
PCB-199 (C198)	47:12	11381972	0.90	0.8698	265.8	265.8	0.0685	0.0685	88.60	
PCB-196	47:53	6138982	0.89	0.7806	159.7	159.7	0.0763	0.0763	106	
PCB-203	48:04	6336967	0.91	0.9292	138.5	138.5	0.0641	0.0641	92.35	
PCB-195	49:23	10004472	0.90	0.8263	142.5	142.5	0.3271	0.3271	94.98	
PCB-194	51:44	11502338	0.91	0.9735	139.0	139.0	0.2776	0.2776	92.69	
PCB-205	52:12	14343070	0.90	1.0878	155.2	155.2	0.2485	0.2485	103	
S Total Nonachlorobiphenyls					423.6	423.6	0.3600	0.3600		
D PCB-208L	49:08	6760397	0.82	0.9576	99.3	99.3	0.2461	0.2461	99.30	
D PCB-206L	53:56	5062798	0.82	0.6947	102.5	102.5	0.3392	0.3392	103	
PCB-208	49:09	11369581	0.78	1.1374	147.9	147.9	0.3498	0.3498	98.57	
PCB-207	50:05	11589174	0.79	1.3756	142.5	142.5	0.3311	0.3311	95.01	
PCB-206	53:57	8998894	0.80	1.3346	133.2	133.2	0.3990	0.3990	88.79	
D PCB-209L	55:34	4860874	0.73	0.6669	102.5	102.5	0.0770	0.0770	103	
DCB Decachlorobiphenyl	55:35	8078366	0.70	1.1004	151.0	151.0	0.0505	0.0505	101	
S Polychlorinated biphenyls, Total					19552	19552	0.3608	0.3608		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61MX209ICVS_00010

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531icv.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 31-May-2024 22:58:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-007
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist:
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 25-Jun-2024 14:34:14 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1632

First Level Reviewer: P0IK

Date: 01-Jun-2024 11:13:58

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:36	-1	0.726	10103777	4095861	3106	7765	1319		
202.0766	11:36	11:36	-1	0.726	3310292	1331893	1619	4047	823	3.05(2.66-3.60)	
PCB-3L											
200.0795	13:45	13:46	-1	0.861	10030467	3409421	3106	7765	1098		
202.0766	13:45	13:46	-1	0.861	3131725	1055587	1619	4047	652	3.20(2.66-3.60)	
PCB-1											
188.0393	11:36	11:37	-1	1.001	5850066	2371808	2745	6862	864		
190.0363	11:36	11:37	-1	1.001	1855481	744562	862	2155	864	3.15(2.66-3.60)	
PCB-2											
188.0393	13:35	13:36	-2	0.988	5623875	1844092	2745	6862	672		
190.0363	13:35	13:36	-2	0.988	1782884	586009	862	2155	680	3.15(2.66-3.60)	
PCB-3											
188.0393	13:46	13:47	-1	1.001	5859143	1964980	2745	6862	716		
190.0363	13:46	13:47	-1	1.001	1843260	617524	862	2155	716	3.18(2.66-3.60)	
PCB-4L											
234.0406	14:00	14:02	-2	0.876	3344986	1063170	1120	2800	949		
236.0376	14:00	14:02	-2	0.876	2074015	675055	217	542	3111	1.61(1.33-1.79)	
PCB-9L											
234.0406	15:58	15:59	-1		5147891	1483695	1120	2800	1325		
236.0376	15:58	15:59	-1		3227571	920658	217	542	4243	1.59(1.33-1.79)	
PCB-8L											
234.0406	16:48	16:50	-2	1.200	2560875	700385	1120	2800	625		
236.0376	16:48	16:50	-2	1.200	1578679	440253	217	542	2029	1.62(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:53	19:54	-2	1.245	5569429	1333844	1120	2800	1191		
236.0376	19:53	19:54	-2	1.245	3379586	834330	217	542	3845	1.65(1.33-1.79)	
PCB-4											
222.0003	14:01	14:02	-1	1.002	1925034	613170	147	367	4171		
223.9974	14:01	14:02	-1	1.002	1202304	380856	252	630	1511	1.60(1.33-1.79)	
PCB-10											
222.0003	14:11	14:13	-2	1.013	3166372	1003249	147	367	6825		
223.9974	14:11	14:13	-2	1.013	1964404	631997	252	630	2508	1.61(1.33-1.79)	
PCB-9											
222.0003	15:59	16:00	-1	1.142	3056424	916469	147	367	6234		
223.9974	15:59	16:00	-1	1.142	1860477	551822	252	630	2190	1.64(1.33-1.79)	
PCB-7											
222.0003	16:09	16:10	-2	1.153	3100401	891503	147	367	6065		
223.9974	16:09	16:10	-2	1.153	1970071	559010	252	630	2218	1.57(1.33-1.79)	
PCB-6											
222.0003	16:23	16:25	-2	1.171	3081385	875858	147	367	5958		
223.9974	16:23	16:25	-2	1.171	1923116	542995	252	630	2155	1.60(1.33-1.79)	
PCB-5											
222.0003	16:42	16:43	-2	1.193	3041883	865913	147	367	5891		
223.9974	16:42	16:43	-2	1.193	1914725	543382	252	630	2156	1.59(1.33-1.79)	
PCB-8											
222.0003	16:50	16:50	-1	1.202	3269707	892828	147	367	6074		
223.9974	16:49	16:50	-2	1.201	2051178	550386	252	630	2184	1.59(1.33-1.79)	
PCB-14											
222.0003	18:27	18:28	-1	0.928	3077529	817580	147	367	5562		
223.9974	18:27	18:28	-1	0.928	1934500	501236	252	630	1989	1.59(1.33-1.79)	
PCB-11											
222.0003	19:17	19:18	-1	0.970	2956006	745986	147	367	5075		
223.9974	19:17	19:18	-1	0.970	1854907	474147	252	630	1882	1.59(1.33-1.79)	
PCB-12											
222.0003	19:35	19:36	-1	0.985	6551161	1073913	147	367	7306		
223.9974	19:35	19:36	-1	0.985	4132669	684210	252	630	2715	1.59(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:35	19:36	-1	0.985	6551161	1073913	147	367	7306		
223.9974	19:35	19:36	-1	0.985	4132669	684210	252	630	2715	1.59(1.33-1.79)	
PCB-15											
222.0003	19:54	19:55	-1	1.001	3350939	782858	147	367	5326		
223.9974	19:54	19:55	-1	1.001	2100253	483826	252	630	1920	1.60(1.33-1.79)	
PCB-19L											
268.0016	17:06	17:08	-2	0.840	1732998	475392	445	1112	1068		
269.9986	17:06	17:08	-2	0.840	1632215	450808	1019	2547	442	1.06(0.88-1.20)	
PCB-32L											
268.0016	20:22	20:23	-1		2891371	674119	445	1112	1515		
269.9986	20:22	20:23	-1		2577913	644990	1019	2547	633	1.12(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:37	22:38	-1		8002433	1889916	810	2025	2333		
269.9986	22:37	22:38	-1		7616100	1792994	521	1302	3441	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:55	22:56	-1	1.013	3873743	895493	810	2025	1106		
269.9986	22:55	22:56	-1	1.013	3710266	837875	521	1302	1608	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:54	26:55	-1	1.190	7101526	1479555	810	2025	1827		
269.9986	26:54	26:55	-1	1.190	6618455	1372655	521	1302	2635	1.07(0.88-1.20)	
PCB-19											
255.9613	17:08	17:09	-1	1.002	1046701	279702	211	527	1326		
257.9584	17:07	17:09	-2	1.001	1002607	271758	116	290	2343	1.04(0.88-1.20)	
PCB-18											
255.9613	18:57	18:59	-2	1.108	2781051	529177	211	527	2508		
257.9584	18:57	18:59	-2	1.108	2631238	493719	116	290	4256	1.06(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:57	18:59	-2	1.108	2781051	529177	211	527	2508		
257.9584	18:57	18:59	-2	1.108	2631238	493719	116	290	4256	1.06(0.88-1.20)	
PCB-17											
255.9613	19:24	19:26	-2	1.135	1202754	306907	211	527	1455		
257.9584	19:24	19:26	-2	1.135	1156970	293962	116	290	2534	1.04(0.88-1.20)	
PCB-27											
255.9613	19:38	19:39	-1	1.148	1582269	396871	211	527	1881		
257.9584	19:37	19:39	-2	1.147	1529902	372926	116	290	3215	1.03(0.88-1.20)	
PCB-24											
255.9613	19:45	19:46	-1	1.155	1504350	375414	211	527	1779		
257.9584	19:45	19:46	-1	1.155	1452149	376031	116	290	3242	1.04(0.88-1.20)	
PCB-16											
255.9613	19:52	19:53	-1	1.162	1030230	261432	211	527	1239		
257.9584	19:52	19:53	-1	1.162	976878	247521	116	290	2134	1.05(0.88-1.20)	
PCB-32											
255.9613	20:23	20:23	-1	1.192	1682114	415647	211	527	1970		
257.9584	20:23	20:23	-1	1.192	1604215	403987	116	290	3483	1.05(0.88-1.20)	
PCB-34											
255.9613	21:38	21:39	-1	1.265	3797306	924707	7638	19095	121		
257.9584	21:38	21:39	-1	1.265	3589367	879511	5579	13947	158	1.06(0.88-1.20)	
PCB-23											
255.9613	21:47	21:48	-1	1.274	3807327	894920	7638	19095	117		
257.9584	21:47	21:48	-1	1.274	3556237	839685	5579	13947	151	1.07(0.88-1.20)	
PCB-26											
255.9613	22:07	22:08	-1	1.293	7998616	1624921	7638	19095	213		
257.9584	22:07	22:08	-1	1.293	7587557	1580194	5579	13947	283	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:07	22:08	-1	1.293	7998616	1624921	7638	19095	213		
257.9584	22:07	22:08	-1	1.293	7587557	1580194	5579	13947	283	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:20	22:21	-1	0.830	4297437	911223	7638	19095	119		
257.9584	22:20	22:21	-1	0.830	4051255	853504	5579	13947	153	1.06(0.88-1.20)	
PCB-31											
255.9613	22:38	22:40	-2	0.841	4092978	943513	7638	19095	124		
257.9584	22:38	22:40	-2	0.841	3884694	904096	5579	13947	162	1.05(0.88-1.20)	
PCB-20											
255.9613	22:57	22:58	-1	0.853	8003444	1512347	7638	19095	198		
257.9584	22:57	22:58	-1	0.853	7546062	1449629	5579	13947	260	1.06(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:57	22:58	-1	0.853	8003444	1512347	7638	19095	198		
257.9584	22:57	22:58	-1	0.853	7546062	1449629	5579	13947	260	1.06(0.88-1.20)	
PCB-21											
255.9613	23:06	23:07	-1	0.859	7956098	1000870	7638	19095	131		M
257.9584	23:06	23:07	-1	0.859	7752210	969315	5579	13947	174	1.03(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:06	23:07	-1	0.859	7956098	1000870	7638	19095	131		M
257.9584	23:06	23:07	-1	0.859	7752210	969315	5579	13947	174	1.03(0.88-1.20)	M
PCB-22											
255.9613	23:34	23:35	-1	0.876	3655206	842267	7638	19095	110		
257.9584	23:34	23:35	-1	0.876	3485905	798810	5579	13947	143	1.05(0.88-1.20)	
PCB-36											
255.9613	25:08	25:09	-1	0.934	4540214	882522	7638	19095	116		
257.9584	25:08	25:09	-1	0.934	4070030	828526	5579	13947	149	1.12(0.88-1.20)	
PCB-39											
255.9613	25:29	25:30	-1	0.947	3760741	789234	7638	19095	103		
257.9584	25:29	25:30	-1	0.947	3631959	759447	5579	13947	136	1.04(0.88-1.20)	
PCB-38											
255.9613	26:04	26:05	-1	0.969	4102901	877260	7638	19095	115		
257.9584	26:04	26:05	-1	0.969	3855316	824339	5579	13947	148	1.06(0.88-1.20)	
PCB-35											
255.9613	26:31	26:32	-1	0.986	3921309	785906	7638	19095	103		
257.9584	26:31	26:32	-1	0.986	3666883	736665	5579	13947	132	1.07(0.88-1.20)	
PCB-37											
255.9613	26:56	26:57	-1	1.001	4057382	824639	7638	19095	108		
257.9584	26:56	26:57	-1	1.001	3810791	794829	5579	13947	142	1.06(0.88-1.20)	
PCB-54L											
301.9626	20:11	20:12	-2	0.815	1418019	347973	146	365	2383		
303.9597	20:11	20:12	-2	0.815	1732097	439160	8	20	54895	0.82(0.65-0.89)	
PCB-52L											
301.9626	24:45	24:46	-2		3456171	771135	1272	3180	606		
303.9597	24:45	24:46	-2		4327654	957616	1796	4490	533	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:41	32:41	0	0.971	2192285	441931	1272	3180	347		
303.9597	32:40	32:41	-1	0.970	2733038	553333	1796	4490	308	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:40	33:41	-1	1.360	4308382	864591	1272	3180	680		
303.9597	33:40	33:41	-1	1.360	5338051	1056607	1796	4490	588	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:13	34:14	-1	1.383	4563300	872792	1272	3180	686		
303.9597	34:13	34:14	-1	1.383	5699685	1099462	1796	4490	612	0.80(0.65-0.89)	
PCB-54											
289.9224	20:12	20:13	-1	1.000	1939754	496773	183	457	2715		
291.9194	20:12	20:13	-1	1.000	2448222	619151	192	480	3225	0.79(0.65-0.89)	
PCB-50											
289.9224	22:23	22:24	-1	1.109	7508551	1520529	3079	7697	494		
291.9194	22:23	22:24	-1	1.109	9511752	1951569	3640	9100	536	0.79(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:23	22:24	-1	1.109	7508551	1520529	3079	7697	494		
291.9194	22:23	22:24	-1	1.109	9511752	1951569	3640	9100	536	0.79(0.65-0.89)	
PCB-45											
289.9224	23:06	23:08	-2	1.145	7266784	922591	3079	7697	300		M
291.9194	23:06	23:08	-2	1.145	9147858	1162065	3640	9100	319	0.79(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:06	23:08	-2	1.145	7266784	922591	3079	7697	300		M
291.9194	23:06	23:08	-2	1.145	9147858	1162065	3640	9100	319	0.79(0.65-0.89)	M
PCB-46											
289.9224	23:21	23:22	-1	1.157	3391513	798861	3079	7697	259		
291.9194	23:21	23:22	-1	1.157	4288607	1003242	3640	9100	276	0.79(0.65-0.89)	
PCB-52											
289.9224	24:46	24:47	-1	1.228	3687517	835179	3079	7697	271		
291.9194	24:46	24:47	-1	1.228	4617995	1048972	3640	9100	288	0.80(0.65-0.89)	
PCB-43											
289.9224	24:55	24:56	-1	1.235	8232470	1181226	3079	7697	384		M
291.9194	24:55	24:56	-2	1.235	10423848	1485849	3640	9100	408	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:55	24:56	-1	1.235	8232470	1181226	3079	7697	384		M
291.9194	24:55	24:56	-2	1.235	10423848	1485849	3640	9100	408	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:13	25:14	-1	1.250	9217804	1370345	3079	7697	445		
291.9194	25:13	25:14	-1	1.250	11675600	1750179	3640	9100	481	0.79(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:13	25:14	-1	1.250	9217804	1370345	3079	7697	445		
291.9194	25:13	25:14	-1	1.250	11675600	1750179	3640	9100	481	0.79(0.65-0.89)	
PCB-48											
289.9224	25:32	25:33	-1	1.266	3761963	851454	3079	7697	277		
291.9194	25:32	25:33	-1	1.266	4776969	1070664	3640	9100	294	0.79(0.65-0.89)	
PCB-44											
289.9224	25:47	25:48	-1	1.278	12479341	2247450	3079	7697	730		
291.9194	25:47	25:48	-1	1.278	15669252	2847732	3640	9100	782	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:47	25:48	-1	1.278	12479341	2247450	3079	7697	730		
291.9194	25:47	25:48	-1	1.278	15669252	2847732	3640	9100	782	0.80(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:47	25:48	-1	1.278	12479341	2247450	3079	7697	730		
291.9194	25:47	25:48	-1	1.278	15669252	2847732	3640	9100	782	0.80(0.65-0.89)	
PCB-59											
289.9224	26:05	26:06	-1	1.293	15647059	2235842	3079	7697	726		
291.9194	26:05	26:06	-1	1.293	19633255	2829582	3640	9100	777	0.80(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:05	26:06	-1	1.293	15647059	2235842	3079	7697	726		
291.9194	26:05	26:06	-1	1.293	19633255	2829582	3640	9100	777	0.80(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:05	26:06	-1	1.293	15647059	2235842	3079	7697	726		
291.9194	26:05	26:06	-1	1.293	19633255	2829582	3640	9100	777	0.80(0.65-0.89)	
PCB-42											
289.9224	26:18	26:18	-1	1.303	3359085	745228	3079	7697	242		
291.9194	26:18	26:18	-1	1.303	4345339	956578	3640	9100	263	0.77(0.65-0.89)	
PCB-40											
289.9224	26:47	26:48	-2	1.327	11455207	1738694	3079	7697	565		M
291.9194	26:47	26:48	-2	1.327	14336238	2175715	3640	9100	598	0.80(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:47	26:48	-2	1.327	11455207	1738694	3079	7697	565		M
291.9194	26:47	26:48	-2	1.327	14336238	2175715	3640	9100	598	0.80(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:47	26:48	-2	1.327	11455207	1738694	3079	7697	565		M
291.9194	26:47	26:48	-2	1.327	14336238	2175715	3640	9100	598	0.80(0.65-0.89)	M
PCB-64											
289.9224	27:00	27:01	-1	1.338	5246898	1140770	3079	7697	371		
291.9194	27:00	27:01	-1	1.338	6710017	1452540	3640	9100	399	0.78(0.65-0.89)	
PCB-72											
289.9224	27:50	27:51	-1	0.827	5289603	1145156	3079	7697	372		
291.9194	27:50	27:51	-1	0.827	6565324	1425591	3640	9100	392	0.81(0.65-0.89)	
PCB-68											
289.9224	28:07	28:09	-2	0.835	5656579	1099567	3079	7697	357		
291.9194	28:07	28:09	-2	0.835	7021477	1397838	3640	9100	384	0.81(0.65-0.89)	
PCB-57											
289.9224	28:33	28:34	-1	0.848	5039105	1076197	3079	7697	350		
291.9194	28:33	28:34	-1	0.848	6358102	1375881	3640	9100	378	0.79(0.65-0.89)	
PCB-58											
289.9224	28:47	28:48	-1	0.855	5176893	1063979	3079	7697	346		
291.9194	28:47	28:48	-1	0.855	6482361	1333018	3640	9100	366	0.80(0.65-0.89)	
PCB-67											
289.9224	28:57	28:58	-1	0.860	6227236	1210732	3079	7697	393		
291.9194	28:57	28:58	-1	0.860	7881492	1546045	3640	9100	425	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:13	29:14	-1	0.868	5423527	1089464	3079	7697	354		
291.9194	29:13	29:14	-1	0.868	6835826	1372350	3640	9100	377	0.79(0.65-0.89)	
PCB-61											
289.9224	29:33	29:34	-1	0.878	20914188	2330691	3079	7697	757		
291.9194	29:33	29:34	-1	0.878	26506002	2975026	3640	9100	817	0.79(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:33	29:34	-1	0.878	20914188	2330691	3079	7697	757		
291.9194	29:33	29:34	-1	0.878	26506002	2975026	3640	9100	817	0.79(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:33	29:34	-1	0.878	20914188	2330691	3079	7697	757		
291.9194	29:33	29:34	-1	0.878	26506002	2975026	3640	9100	817	0.79(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:33	29:34	-1	0.878	20914188	2330691	3079	7697	757		
291.9194	29:33	29:34	-1	0.878	26506002	2975026	3640	9100	817	0.79(0.65-0.89)	
PCB-66											
289.9224	29:52	29:53	-1	0.887	5322566	1060845	3079	7697	345		
291.9194	29:52	29:53	-1	0.887	6704633	1361616	3640	9100	374	0.79(0.65-0.89)	
PCB-55											
289.9224	30:02	30:03	0	0.892	4892403	1008379	3079	7697	328		
291.9194	30:02	30:03	-1	0.892	6160897	1266861	3640	9100	348	0.79(0.65-0.89)	
PCB-56											
289.9224	30:32	30:33	-1	0.907	4870744	1000617	3079	7697	325		
291.9194	30:33	30:33	0	0.908	6194598	1259566	3640	9100	346	0.79(0.65-0.89)	
PCB-60											
289.9224	30:45	30:46	-1	0.914	5172901	1057678	3079	7697	344		
291.9194	30:45	30:46	-1	0.914	6541963	1324261	3640	9100	364	0.79(0.65-0.89)	
PCB-80											
289.9224	31:10	31:11	-1	0.926	6237956	1241113	3079	7697	403		
291.9194	31:10	31:11	-1	0.926	7842689	1574931	3640	9100	433	0.80(0.65-0.89)	
PCB-79											
289.9224	32:41	32:42	-1	0.971	6199108	1193231	3079	7697	388		
291.9194	32:41	32:42	-1	0.971	7736368	1491950	3640	9100	410	0.80(0.65-0.89)	
PCB-78											
289.9224	33:15	33:15	0	0.988	4701413	887555	3079	7697	288		
291.9194	33:15	33:15	0	0.988	5901427	1157905	3640	9100	318	0.80(0.65-0.89)	
PCB-81											
289.9224	33:41	33:42	-1	1.001	4661203	888530	3079	7697	289		
291.9194	33:41	33:42	-1	1.001	5779312	1112088	3640	9100	306	0.81(0.65-0.89)	
PCB-77											
289.9224	34:15	34:16	-1	1.001	5090422	986507	3079	7697	320		
291.9194	34:15	34:16	-1	1.001	6437066	1241053	3640	9100	341	0.79(0.65-0.89)	
PCB-104L											
337.9207	25:41	25:42	-1	0.813	3945007	897940	86	215	10441		
339.9178	25:41	25:42	-1	0.813	2476076	561112	94	235	5969	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:40	28:41	-1	1.116	1377977	294169	86	215	3421		
339.9178	28:40	28:41	-1	1.116	862101	191325	94	235	2035	1.60(1.32-1.78)	
PCB-101L											
337.9207	31:36	31:37	-1		3180729	645710	86	215	7508		
339.9178	31:36	31:37	-1		1998189	400831	94	235	4264	1.59(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:17	0	1.085	2075145	417586	86	215	4856		
339.9178	34:16	34:17	-1	1.085	1276281	263893	94	235	2807	1.63(1.32-1.78)	
PCB-123L											
337.9207	36:14	36:15	0	1.147	5869660	1170803	5247	13117	223		
339.9178	36:14	36:15	0	1.147	3703122	739285	3633	9082	203	1.59(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	6143066	1196225	5247	13117	228		
339.9178	36:34	36:34	0	1.157	3864671	754827	3633	9082	208	1.59(1.32-1.78)	
PCB-114L											
337.9207	37:06	37:06	0	1.174	5991890	1148412	5247	13117	219		
339.9178	37:05	37:06	-1	1.173	3803468	734858	3633	9082	202	1.58(1.32-1.78)	
PCB-105L											
337.9207	37:44	37:45	0	1.194	5801657	1127585	5247	13117	215		
339.9178	37:44	37:45	0	1.194	3616723	707507	3633	9082	195	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:14	-1		6084552	1180716	5247	13117	225		
339.9178	39:13	39:14	-1		3822750	741401	3633	9082	204	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:50	0	1.292	5820339	1092467	5247	13117	208		
339.9178	40:49	40:50	-1	1.292	3665908	691827	3633	9082	190	1.59(1.32-1.78)	
PCB-104											
325.8804	25:43	25:44	-1	1.001	4970315	1094090	175	437	6252		
327.8775	25:43	25:44	-1	1.001	3141200	689066	150	375	4594	1.58(1.32-1.78)	
PCB-96											
325.8804	26:04	26:06	-2	1.015	3965677	853238	175	437	4876		
327.8775	26:04	26:06	-2	1.015	2528306	543557	150	375	3624	1.57(1.32-1.78)	
PCB-103											
325.8804	28:01	28:02	-1	1.091	3292810	688553	175	437	3935		
327.8775	28:01	28:02	-1	1.091	2069502	436911	150	375	2913	1.59(1.32-1.78)	
PCB-94											
325.8804	28:15	28:16	-1	1.100	3124029	645282	175	437	3687		
327.8775	28:14	28:16	-2	1.099	1996352	416634	150	375	2778	1.56(1.32-1.78)	
PCB-95											
325.8804	28:41	28:42	-1	1.117	2870473	604866	175	437	3456		
327.8775	28:41	28:42	-1	1.117	1824852	382101	150	375	2547	1.57(1.32-1.78)	
PCB-93											
325.8804	28:54	28:55	-1	1.125	6945007	1409471	175	437	8054		
327.8775	28:54	28:55	-1	1.125	4392831	893198	150	375	5955	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:54	28:55	-1	1.125	6945007	1409471	175	437	8054		
327.8775	28:54	28:55	-1	1.125	4392831	893198	150	375	5955	1.58(1.32-1.78)	
PCB-98											
325.8804	29:03	29:04	-1	1.131	6677250	814225	175	437	4653		M
327.8775	29:03	29:04	-1	1.131	4268659	526991	150	375	3513	1.56(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:03	29:04	-1	1.131	6677250	814225	175	437	4653		M
327.8775	29:03	29:04	-1	1.131	4268659	526991	150	375	3513	1.56(1.32-1.78)	M
PCB-88											
325.8804	29:33	29:33	-1	1.150	6287512	723191	175	437	4133		
327.8775	29:33	29:33	-1	1.150	3972691	461744	150	375	3078	1.58(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	-1	1.150	6287512	723191	175	437	4133		
327.8775	29:33	29:33	-1	1.150	3972691	461744	150	375	3078	1.58(1.32-1.78)	
PCB-84											
325.8804	29:46	29:47	-1	1.159	3225200	646939	175	437	3697		
327.8775	29:46	29:47	-1	1.159	1996360	401164	150	375	2674	1.62(1.32-1.78)	
PCB-89											
325.8804	30:15	30:16	-1	1.177	2719038	558420	175	437	3191		
327.8775	30:15	30:16	-1	1.177	1761051	356973	150	375	2380	1.54(1.32-1.78)	
PCB-121											
325.8804	30:40	30:41	-1	1.194	4634993	969529	175	437	5540		
327.8775	30:40	30:41	-1	1.194	2898949	600754	150	375	4005	1.60(1.32-1.78)	
PCB-92											
325.8804	31:02	31:03	-1	0.856	2864439	576958	175	437	3297		
327.8775	31:02	31:03	-1	0.856	1817184	361184	150	375	2408	1.58(1.32-1.78)	
PCB-90											
325.8804	31:37	31:37	0	1.231	11516863	1724783	175	437	9856		
327.8775	31:37	31:37	0	1.231	7290443	1071998	150	375	7147	1.58(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:37	31:37	0	1.231	11516863	1724783	175	437	9856		
327.8775	31:37	31:37	0	1.231	7290443	1071998	150	375	7147	1.58(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:37	31:37	0	1.231	11516863	1724783	175	437	9856		
327.8775	31:37	31:37	0	1.231	7290443	1071998	150	375	7147	1.58(1.32-1.78)	
PCB-83											
325.8804	32:12	32:13	-1	1.254	6253236	769809	175	437	4399		
327.8775	32:12	32:13	-1	1.254	3954490	483126	150	375	3221	1.58(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:12	32:13	-1	1.254	6253236	769809	175	437	4399		
327.8775	32:12	32:13	-1	1.254	3954490	483126	150	375	3221	1.58(1.32-1.78)	
PCB-112											
325.8804	32:19	32:20	-1	1.258	5101475	998365	175	437	5705		
327.8775	32:19	32:20	-1	1.258	3186136	628612	150	375	4191	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-85											
325.8804	33:24	33:25	-1	1.300	12280070	1489665	175	437	8512		
327.8775	33:24	33:25	-1	1.300	7739748	938017	150	375	6253	1.59(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:24	33:25	-1	1.300	12280070	1489665	175	437	8512		
327.8775	33:24	33:25	-1	1.300	7739748	938017	150	375	6253	1.59(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:24	33:25	-1	1.300	12280070	1489665	175	437	8512		
327.8775	33:24	33:25	-1	1.300	7739748	938017	150	375	6253	1.59(1.32-1.78)	
PCB-110											
325.8804	33:37	33:37	0	1.308	8804870	1025036	175	437	5857		
327.8775	33:37	33:37	0	1.308	5555673	659284	150	375	4395	1.58(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:37	33:37	0	1.308	8804870	1025036	175	437	5857		
327.8775	33:37	33:37	0	1.308	5555673	659284	150	375	4395	1.58(1.32-1.78)	
PCB-82											
325.8804	33:54	33:55	-1	1.320	2950994	544151	175	437	3109		
327.8775	33:54	33:55	-1	1.320	1863858	342832	150	375	2286	1.58(1.32-1.78)	
PCB-111											
325.8804	34:18	34:19	-1	1.335	4776944	953835	175	437	5450		
327.8775	34:18	34:19	-1	1.335	3054108	601055	150	375	4007	1.56(1.32-1.78)	
PCB-120											
325.8804	34:46	34:47	-1	1.353	4605720	900570	175	437	5146		
327.8775	34:46	34:47	-1	1.353	2892227	572211	150	375	3815	1.59(1.32-1.78)	
PCB-108											
325.8804	35:54	35:55	-1	1.397	12878349	2458421	6049	15122	406		
327.8775	35:54	35:55	-1	1.397	8216796	1564060	4524	11310	346	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:54	35:55	-1	1.397	12878349	2458421	6049	15122	406		
327.8775	35:54	35:55	-1	1.397	8216796	1564060	4524	11310	346	1.57(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.407	7924661	1469063	6049	15122	243		
327.8775	36:09	36:09	0	1.407	5082789	950730	4524	11310	210	1.56(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.001	6845228	1322505	6049	15122	219		
327.8775	36:16	36:16	0	1.001	4352617	836312	4524	11310	185	1.57(1.32-1.78)	
PCB-106											
325.8804	36:22	36:23	-1	1.004	6125838	1201365	6049	15122	199		
327.8775	36:22	36:23	-1	1.004	3876411	760237	4524	11310	168	1.58(1.32-1.78)	
PCB-118											
325.8804	36:35	36:36	-1	1.000	7093346	1292708	6049	15122	214		
327.8775	36:35	36:36	-1	1.000	4560358	828709	4524	11310	183	1.56(1.32-1.78)	
PCB-122											
325.8804	36:56	36:56	0	1.010	4868640	945045	6049	15122	156		
327.8775	36:56	36:56	0	1.010	3091849	615669	4524	11310	136	1.57(1.32-1.78)	
PCB-114											
325.8804	37:06	37:08	-1	1.000	7173348	1322839	6049	15122	219		
327.8775	37:06	37:08	-1	1.000	4560788	848772	4524	11310	188	1.57(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	5830889	1039658	6049	15122	172		
327.8775	37:45	37:46	-1	1.000	3766190	674957	4524	11310	149	1.55(1.32-1.78)	
PCB-127											
325.8804	39:14	39:15	0	1.040	6722234	1205018	6049	15122	199		
327.8775	39:14	39:15	0	1.040	4190045	767073	4524	11310	170	1.60(1.32-1.78)	
PCB-126											
325.8804	40:50	40:52	-1	1.000	6710597	1146373	6049	15122	190		
327.8775	40:50	40:52	-1	1.000	4255402	738709	4524	11310	163	1.58(1.32-1.78)	
PCB-155L											
371.8817	31:22	31:23	-1	0.790	3236837	659635	51	127	12934		
373.8788	31:22	31:23	-1	0.790	2497553	519602	33	82	15746	1.30(1.05-1.43)	
PCB-153L											
371.8817	38:27	38:27	0	0.900	1886831	360399	165	412	2184		
373.8788	38:27	38:27	0	0.900	1456597	277060	1856	4640	149	1.30(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		3681908	707682	165	412	4289		
373.8788	39:41	39:41	0		2882024	545586	1856	4640	294	1.28(1.05-1.43)	
PCB-159L											
371.8817	41:56	41:56	0	0.982	4312836	821131	165	412	4977		
373.8788	41:55	41:56	-1	0.982	3318028	629774	1856	4640	339	1.30(0.00-0.00)	
PCB-167L											
371.8817	42:42	42:42	0	1.076	4782672	899237	165	412	5450		
373.8788	42:42	42:42	0	1.076	3662622	690148	1856	4640	372	1.31(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156L											
371.8817	43:50	43:51	0	1.105	9039628	1181674	165	412	7162		
373.8788	43:50	43:51	0	1.105	7055019	928275	1856	4640	500	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:50	43:51	0	1.105	9039628	1181674	165	412	7162		
373.8788	43:50	43:51	0	1.105	7055019	928275	1856	4640	500	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:04	47:05	0	1.186	4621255	858979	165	412	5206		
373.8788	47:04	47:05	0	1.186	3586024	671593	1856	4640	362	1.29(1.05-1.43)	
PCB-155											
359.8415	31:24	31:25	-1	1.001	3423414	679395	208	520	3266		
361.8385	31:24	31:25	-1	1.001	2666664	538086	147	367	3660	1.28(1.05-1.43)	
PCB-152											
359.8415	31:35	31:36	0	1.007	3047507	619126	208	520	2977		
361.8385	31:35	31:36	0	1.007	2403304	491932	147	367	3346	1.27(1.05-1.43)	
PCB-150											
359.8415	31:45	31:46	-1	1.012	3408883	678983	208	520	3264		
361.8385	31:45	31:46	-1	1.012	2718475	547506	147	367	3725	1.25(1.05-1.43)	
PCB-136											
359.8415	32:07	32:08	-1	1.024	3112024	624136	208	520	3001		
361.8385	32:07	32:08	-1	1.024	2429549	485399	147	367	3302	1.28(1.05-1.43)	
PCB-145											
359.8415	32:24	32:25	-1	1.033	3252992	638880	208	520	3072		
361.8385	32:25	32:25	0	1.033	2587869	504483	147	367	3432	1.26(1.05-1.43)	
PCB-148											
359.8415	33:56	33:57	-1	1.082	2286267	460304	208	520	2213		
361.8385	33:56	33:57	-1	1.082	1825352	366935	147	367	2496	1.25(1.05-1.43)	
PCB-135											
359.8415	34:34	34:32	2	1.102	4550681	501980	208	520	2413		M
361.8385	34:34	34:32	2	1.102	3613466	404607	147	367	2752	1.26(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:34	34:32	2	1.102	4550681	501980	208	520	2413		M
361.8385	34:34	34:32	2	1.102	3613466	404607	147	367	2752	1.26(1.05-1.43)	M
PCB-154											
359.8415	34:46	34:47	-1	1.108	3043947	607352	208	520	2920		
361.8385	34:46	34:47	-1	1.108	2432636	480602	147	367	3269	1.25(1.05-1.43)	
PCB-144											
359.8415	35:05	35:06	-1	1.118	2335991	461355	208	520	2218		
361.8385	35:05	35:06	-1	1.118	1822473	361277	147	367	2458	1.28(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	8267625	1672589	2719	6797	615		
361.8385	35:27	35:27	0	1.130	6580162	1334929	1886	4715	708	1.26(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	8267625	1672589	2719	6797	615		
361.8385	35:27	35:27	0	1.130	6580162	1334929	1886	4715	708	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-134											
359.8415	35:44	35:45	-1	1.139	6668754	684003	2719	6797	252		
361.8385	35:44	35:45	-1	1.139	5320146	532316	1886	4715	282	1.25(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:44	35:45	-1	1.139	6668754	684003	2719	6797	252		
361.8385	35:44	35:45	-1	1.139	5320146	532316	1886	4715	282	1.25(1.05-1.43)	
PCB-139											
359.8415	36:02	36:04	-1	1.149	8260616	1460924	2719	6797	537		
361.8385	36:02	36:04	-1	1.149	6666800	1168612	1886	4715	620	1.24(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:02	36:04	-1	1.149	8260616	1460924	2719	6797	537		
361.8385	36:02	36:04	-1	1.149	6666800	1168612	1886	4715	620	1.24(1.05-1.43)	
PCB-131											
359.8415	36:14	36:15	-1	1.155	3399023	659195	2719	6797	242		
361.8385	36:14	36:15	-1	1.155	2726572	530364	1886	4715	281	1.25(1.05-1.43)	
PCB-142											
359.8415	36:23	36:24	-1	1.160	3172191	626792	2719	6797	231		
361.8385	36:23	36:24	-1	1.160	2566105	514056	1886	4715	273	1.24(1.05-1.43)	
PCB-132											
359.8415	36:42	36:43	-1	1.170	3498390	683595	2719	6797	251		
361.8385	36:42	36:43	-1	1.170	2830917	557675	1886	4715	296	1.24(1.05-1.43)	
PCB-133											
359.8415	37:13	37:14	-1	1.186	3472826	659110	2719	6797	242		
361.8385	37:13	37:14	-1	1.186	2809754	532295	1886	4715	282	1.24(1.05-1.43)	
PCB-165											
359.8415	37:36	37:37	0	0.881	4724402	934644	2719	6797	344		
361.8385	37:36	37:37	0	0.881	3752845	740627	1886	4715	393	1.26(1.05-1.43)	
PCB-146											
359.8415	37:51	37:52	-1	0.887	4519906	873952	2719	6797	321		
361.8385	37:51	37:52	-1	0.887	3641481	702218	1886	4715	372	1.24(1.05-1.43)	
PCB-161											
359.8415	37:59	38:00	0	0.890	5166670	1028442	2719	6797	378		
361.8385	37:59	38:00	0	0.890	4137732	820414	1886	4715	435	1.25(1.05-1.43)	
PCB-153											
359.8415	38:30	38:30	0	0.902	9632697	1396569	2719	6797	514		
361.8385	38:30	38:30	0	0.902	7705323	1111468	1886	4715	589	1.25(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:30	38:30	0	0.902	9632697	1396569	2719	6797	514		
361.8385	38:30	38:30	0	0.902	7705323	1111468	1886	4715	589	1.25(1.05-1.43)	
PCB-141											
359.8415	38:39	38:41	-1	0.905	4356749	803270	2719	6797	295		
361.8385	38:39	38:41	-1	0.905	3500008	641579	1886	4715	340	1.24(1.05-1.43)	
PCB-130											
359.8415	39:04	39:05	-1	0.915	3392503	654070	2719	6797	241		
361.8385	39:04	39:05	-1	0.915	2726978	522713	1886	4715	277	1.24(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-137											
359.8415	39:17	39:18	0	0.920	3740933	745496	2719	6797	274		
361.8385	39:17	39:18	0	0.920	3080372	605157	1886	4715	321	1.21(1.05-1.43)	
PCB-164											
359.8415	39:24	39:26	-1	0.923	5553440	1057763	2719	6797	389		
361.8385	39:24	39:26	-1	0.923	4441926	833843	1886	4715	442	1.25(1.05-1.43)	
PCB-129											
359.8415	39:43	39:44	0	0.930	17023216	1862257	2719	6797	685		M
361.8385	39:43	39:44	0	0.930	13549137	1485875	1886	4715	788	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:43	39:44	0	0.930	17023216	1862257	2719	6797	685		M
361.8385	39:43	39:44	0	0.930	13549137	1485875	1886	4715	788	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:43	39:44	0	0.930	17023216	1862257	2719	6797	685		M
361.8385	39:43	39:44	0	0.930	13549137	1485875	1886	4715	788	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:43	39:44	0	0.930	17023216	1862257	2719	6797	685		M
361.8385	39:43	39:44	0	0.930	13549137	1485875	1886	4715	788	1.26(1.05-1.43)	M
PCB-158											
359.8415	40:06	40:07	0	0.939	6236353	1132240	2719	6797	416		
361.8385	40:05	40:07	-1	0.939	5021743	895627	1886	4715	475	1.24(1.05-1.43)	
PCB-128											
359.8415	40:57	40:57	0	0.959	9265833	1358905	2719	6797	500		
361.8385	40:56	40:57	-1	0.959	7448780	1086387	1886	4715	576	1.24(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	9265833	1358905	2719	6797	500		
361.8385	40:56	40:57	-1	0.959	7448780	1086387	1886	4715	576	1.24(1.05-1.43)	
PCB-159											
359.8415	41:57	41:58	-1	0.982	5530168	1041554	2719	6797	383		
361.8385	41:57	41:58	-1	0.982	4484633	839095	1886	4715	445	1.23(1.05-1.43)	
PCB-162											
359.8415	42:14	42:15	-1	0.989	5643066	1004015	2719	6797	369		
361.8385	42:14	42:15	-1	0.989	4639906	810778	1886	4715	430	1.22(1.05-1.43)	
PCB-167											
359.8415	42:43	42:44	0	1.001	5427011	1011850	2719	6797	372		
361.8385	42:43	42:44	0	1.001	4425929	829096	1886	4715	440	1.23(1.05-1.43)	
PCB-156											
359.8415	43:52	43:53	-1	1.001	10127265	1339171	2719	6797	493		
361.8385	43:51	43:53	-2	1.000	8151741	1066491	1886	4715	565	1.24(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:52	43:53	-1	1.001	10127265	1339171	2719	6797	493		
361.8385	43:51	43:53	-2	1.000	8151741	1066491	1886	4715	565	1.24(1.05-1.43)	
PCB-169											
359.8415	47:05	47:06	-1	1.000	5277331	919179	2719	6797	338		
361.8385	47:05	47:06	-1	1.000	4171533	719310	1886	4715	381	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:06	37:07	-1	0.820	3378327	667769	50	125	13355		
407.8398	37:06	37:07	-1	0.820	3231635	643310	62	155	10376	1.05(0.89-1.21)	
PCB-178L											
405.8428	40:09	40:10	-1	0.887	1238512	231317	50	125	4626		
407.8398	40:09	40:10	-1	0.887	1179767	230498	62	155	3718	1.05(0.89-1.21)	
PCB-180L											
405.8428	45:14	45:15	-1		2609315	490821	50	125	9816		
407.8398	45:14	45:15	-1		2456998	454151	62	155	7325	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:29	46:30	-1	1.028	2172983	407370	50	125	8147		
407.8398	46:30	46:30	0	1.028	2004020	373735	62	155	6028	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:36	49:37	-1	1.097	5352309	993846	1111	2777	895		
407.8398	49:36	49:37	-1	1.097	5022734	914139	1909	4772	479	1.07(0.89-1.21)	
PCB-188											
393.8025	37:07	37:08	-1	1.001	3750366	746036	90	225	8289		
395.7995	37:07	37:08	-1	1.001	3479940	695531	185	462	3760	1.08(0.89-1.21)	
PCB-179											
393.8025	37:27	37:28	-1	1.010	3776100	716036	90	225	7956		
395.7995	37:27	37:28	-1	1.010	3534584	673941	185	462	3643	1.07(0.89-1.21)	
PCB-184											
393.8025	37:58	38:00	-1	1.024	3972950	758687	90	225	8430		
395.7995	37:58	38:00	-1	1.024	3799236	730690	185	462	3950	1.05(0.89-1.21)	
PCB-176											
393.8025	38:20	38:21	-1	1.033	3724635	705192	90	225	7835		
395.7995	38:20	38:21	-1	1.033	3499013	665545	185	462	3598	1.06(0.89-1.21)	
PCB-186											
393.8025	38:47	38:48	0	1.046	3607055	686680	90	225	7630		
395.7995	38:47	38:48	0	1.046	3484408	662988	185	462	3584	1.04(0.89-1.21)	
PCB-178											
393.8025	40:10	40:11	-1	1.083	2598475	494710	90	225	5497		
395.7995	40:10	40:11	-1	1.083	2455883	461843	185	462	2496	1.06(0.89-1.21)	
PCB-175											
393.8025	40:48	40:49	-1	1.100	2789029	529892	90	225	5888		
395.7995	40:48	40:49	-1	1.100	2636766	499737	185	462	2701	1.06(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	2968885	541557	90	225	6017		
395.7995	41:05	41:05	0	1.107	2781776	534149	185	462	2887	1.07(0.89-1.21)	
PCB-182											
393.8025	41:16	41:18	-1	1.113	3074190	588191	90	225	6535		
395.7995	41:16	41:18	-1	1.113	2904263	557135	185	462	3012	1.06(0.89-1.21)	
PCB-183											
393.8025	41:41	41:42	-1	1.124	5668555	606402	90	225	6738		M
395.7995	41:41	41:42	-1	1.124	5446408	560626	185	462	3030	1.04(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											M
393.8025	41:41	41:42	-1	1.124	5668555	606402	90	225	6738		M
395.7995	41:41	41:42	-1	1.124	5446408	560626	185	462	3030	1.04(0.89-1.21)	M
PCB-174											
393.8025	41:55	41:56	-1	1.130	2954114	568489	90	225	6317		
395.7995	41:55	41:56	-1	1.130	2758639	534835	185	462	2891	1.07(0.89-1.21)	
PCB-177											
393.8025	42:21	42:22	-1	1.142	2598761	478406	90	225	5316		
395.7995	42:21	42:22	-1	1.142	2635454	451016	185	462	2438	0.99(0.89-1.21)	
PCB-181											
393.8025	42:45	42:45	0	1.152	2704744	510664	90	225	5674		
395.7995	42:45	42:45	0	1.152	2545208	488044	185	462	2638	1.06(0.89-1.21)	
PCB-171											
393.8025	42:58	42:59	0	1.159	5228087	848459	90	225	9427		
395.7995	42:58	42:59	0	1.159	4966224	788943	185	462	4265	1.05(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:58	42:59	0	1.159	5228087	848459	90	225	9427		
395.7995	42:58	42:59	0	1.159	4966224	788943	185	462	4265	1.05(0.89-1.21)	
PCB-172											
393.8025	44:36	44:37	-1	0.899	2565831	469395	90	225	5216		
395.7995	44:37	44:37	0	0.899	2444996	452663	185	462	2447	1.05(0.89-1.21)	
PCB-192											
393.8025	44:53	44:54	-1	0.905	3309907	616848	90	225	6854		
395.7995	44:53	44:54	-1	0.905	3098072	579332	185	462	3132	1.07(0.89-1.21)	
PCB-180											
393.8025	45:13	45:14	-1	0.912	6860897	911561	90	225	10128		
395.7995	45:13	45:14	-1	0.912	6487196	871309	185	462	4710	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:13	45:14	-1	0.912	6860897	911561	90	225	10128		
395.7995	45:13	45:14	-1	0.912	6487196	871309	185	462	4710	1.06(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.920	3696851	689822	90	225	7665		
395.7995	45:37	45:37	0	0.920	3502388	644505	185	462	3484	1.06(0.89-1.21)	
PCB-170											
393.8025	46:30	46:32	-1	0.938	2657108	490977	90	225	5455		
395.7995	46:30	46:32	-1	0.938	2557492	473371	185	462	2559	1.04(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	3605706	656895	90	225	7299		
395.7995	47:02	47:02	0	0.948	3391974	623690	185	462	3371	1.06(0.89-1.21)	
PCB-189											
393.8025	49:38	49:38	0	1.001	5461066	973634	938	2345	1038		
395.7995	49:38	49:38	0	1.001	5205243	945731	667	1667	1418	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:27	42:28	0	0.821	2329254	446693	28	70	15953		
441.8008	42:27	42:28	0	0.821	2593838	485378	24	60	20224	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:43	51:43	0		3382819	627342	122	305	5142		
441.8008	51:43	51:43	0		3726547	691291	321	802	2154	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:10	52:11	-1	1.009	4062544	730307	122	305	5986		
441.8008	52:11	52:11	0	1.009	4435948	797659	321	802	2485	0.92(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	4016801	755995	82	205	9219		
429.7606	42:29	42:29	0	1.001	4451936	853705	140	350	6098	0.90(0.76-1.02)	
PCB-201											
427.7635	43:24	43:25	0	1.022	4156385	799459	82	205	9750		
429.7606	43:24	43:25	0	1.022	4573618	864876	140	350	6178	0.91(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	4032845	761792	82	205	9290		
429.7606	44:05	44:05	0	1.038	4409365	830238	140	350	5930	0.91(0.76-1.02)	
PCB-197											
427.7635	44:18	44:19	-1	1.043	3736624	734663	82	205	8959		
429.7606	44:18	44:19	-1	1.043	4176178	829326	140	350	5924	0.89(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	3946314	723429	82	205	8822		
429.7606	44:24	44:25	-1	1.046	4334271	788726	140	350	5634	0.91(0.76-1.02)	
PCB-198											
427.7635	47:12	47:12	0	1.112	5393438	673383	82	205	8212		
429.7606	47:12	47:12	0	1.112	5988534	737056	140	350	5265	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.112	5393438	673383	82	205	8212		
429.7606	47:12	47:12	0	1.112	5988534	737056	140	350	5265	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.918	2895071	536113	82	205	6538		
429.7606	47:53	47:53	0	0.918	3243911	599537	140	350	4282	0.89(0.76-1.02)	
PCB-203											
427.7635	48:04	48:05	-1	0.921	3025190	547111	82	205	6672		
429.7606	48:04	48:05	-1	0.921	3311777	605013	140	350	4322	0.91(0.76-1.02)	
PCB-195											
427.7635	49:23	49:23	0	0.946	4733065	847348	895	2237	947		
429.7606	49:23	49:23	0	0.946	5271407	964193	757	1892	1274	0.90(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.992	5467988	1007507	895	2237	1126		
429.7606	51:44	51:44	0	0.992	6034350	1121390	757	1892	1481	0.91(0.76-1.02)	
PCB-205											
427.7635	52:12	52:13	-1	1.000	6798161	1208832	895	2237	1351		
429.7606	52:12	52:13	-1	1.000	7544909	1343915	757	1892	1775	0.90(0.76-1.02)	
PCB-208L											
473.7648	49:08	49:09	0	0.950	3041296	547519	561	1402	976		
475.7619	49:08	49:09	-1	0.950	3719101	685364	682	1705	1005	0.82(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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PCB-206L

473.7648	53:56	53:57	0	1.043	2275732	420434	561	1402	749		
475.7619	53:56	53:57	0	1.043	2787066	500674	682	1705	734	0.82(0.65-0.89)	

PCB-208

461.7246	49:09	49:10	-1	1.000	4971587	912861	865	2162	1055		
463.7216	49:09	49:10	-1	1.000	6397994	1174241	1097	2742	1070	0.78(0.65-0.89)	

PCB-207

461.7246	50:05	50:05	0	1.019	5118756	951202	865	2162	1100		
463.7216	50:05	50:05	0	1.019	6470418	1179746	1097	2742	1075	0.79(0.65-0.89)	

PCB-206

461.7246	53:57	53:58	-1	1.000	3990172	711220	865	2162	822		
463.7216	53:57	53:58	-1	1.000	5008722	906973	1097	2742	827	0.80(0.65-0.89)	

PCB-209L

507.7258	55:34	55:34	0	1.075	2052514	351405	144	360	2440		
509.7229	55:34	55:34	0	1.075	2808360	479413	127	317	3775	0.73(0.59-0.79)	

DCB Decachlorobiphenyl

495.6856	55:35	55:36	0	1.000	3319436	562420	80	200	7030		
497.6826	55:35	55:36	0	1.000	4758930	795243	105	262	7574	0.70(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61MX209ICVS_00010

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

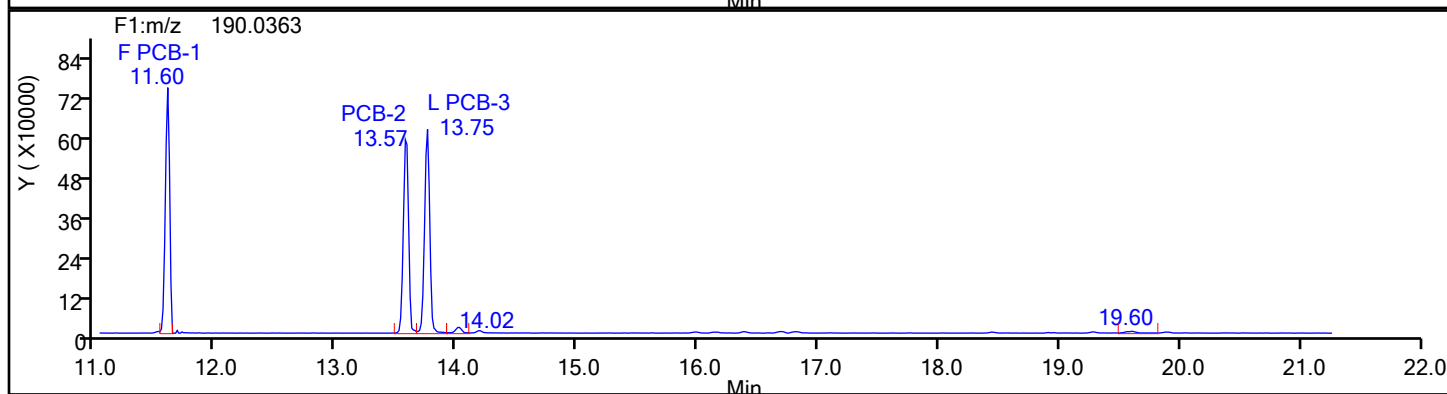
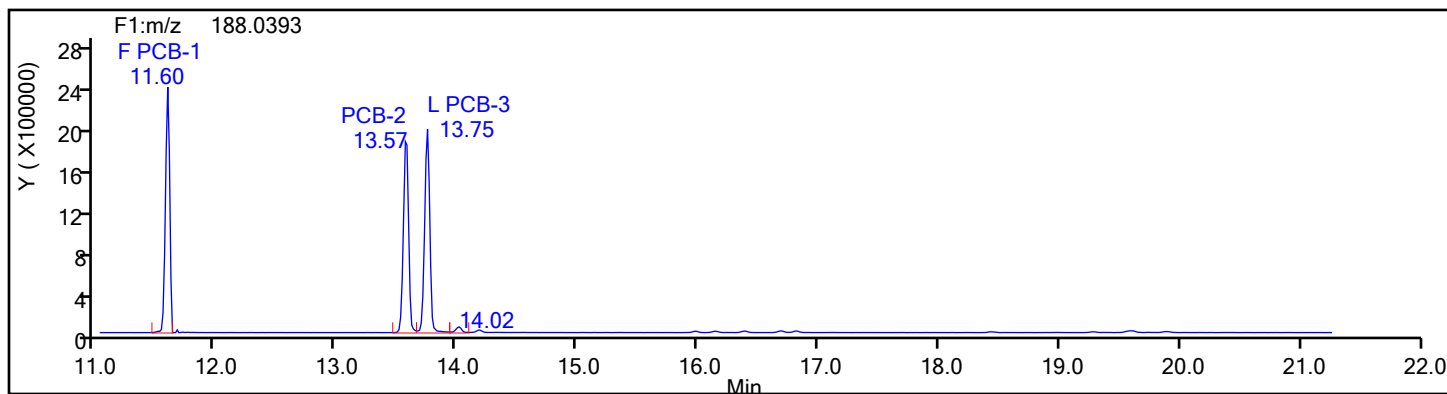
Worklist#: 87130

Sample Line#: 7

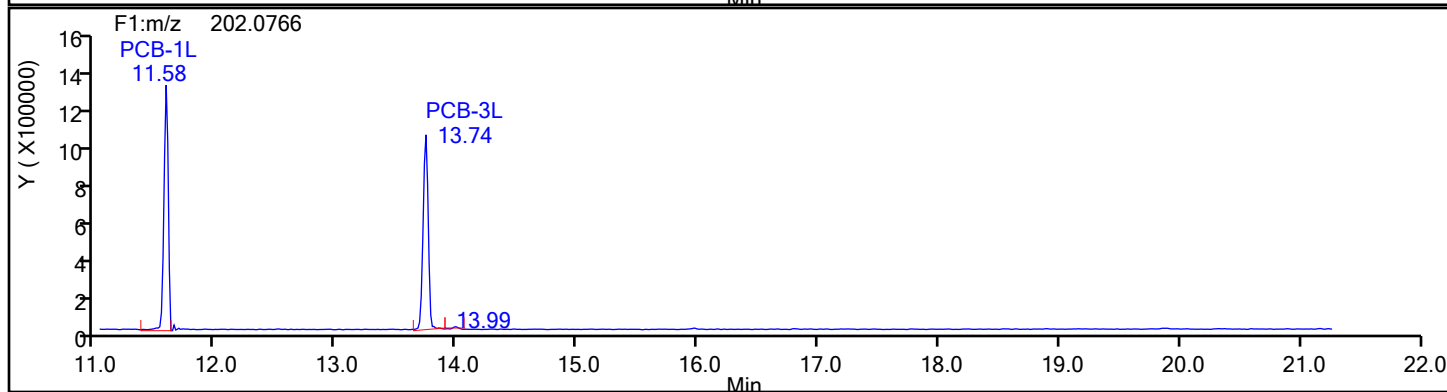
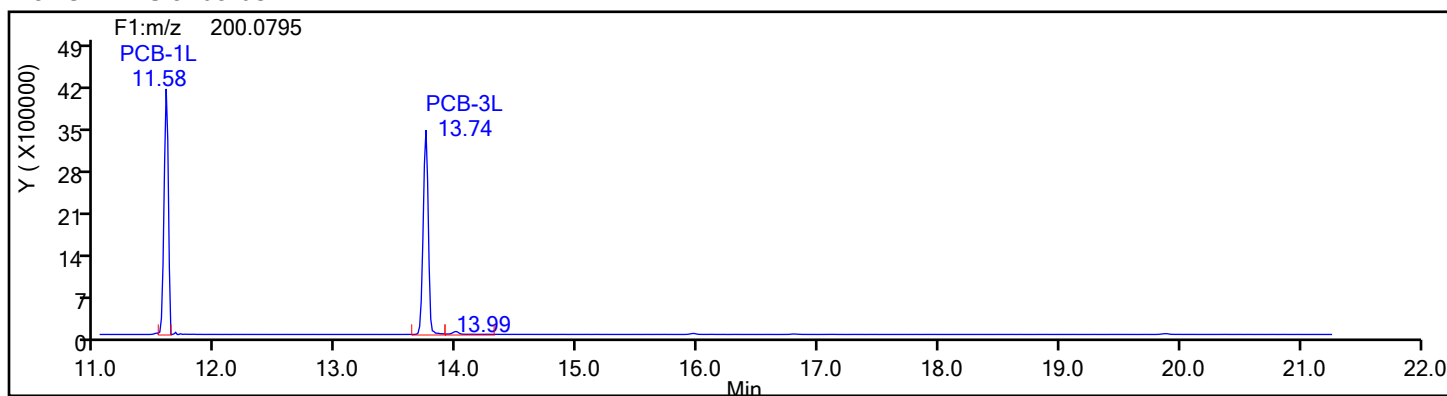
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1

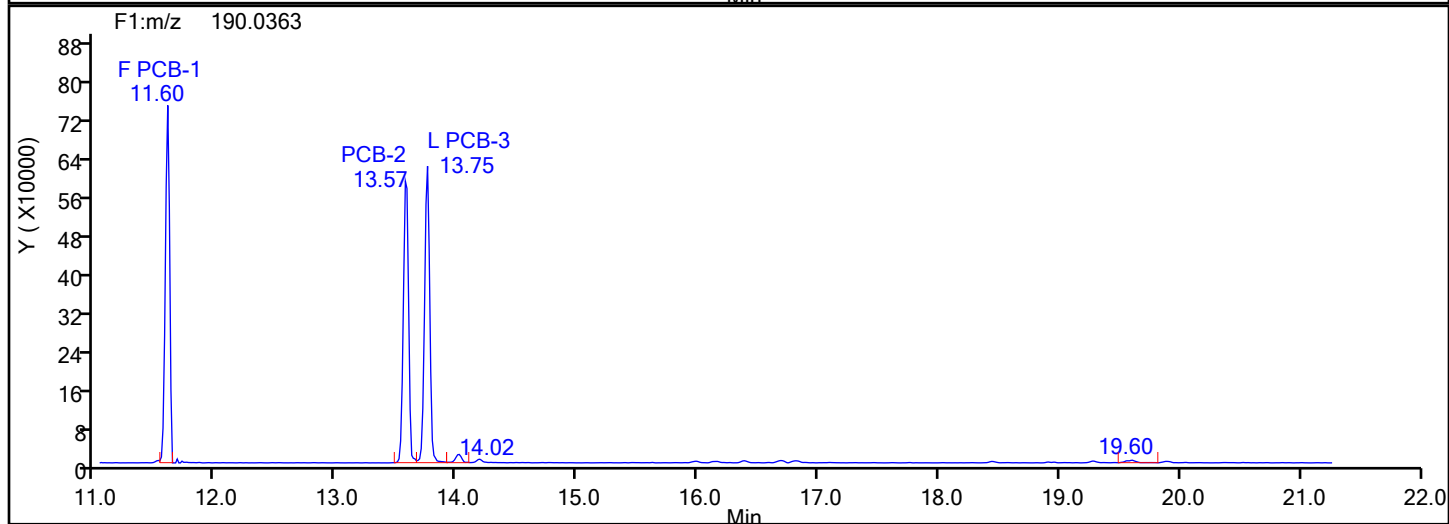
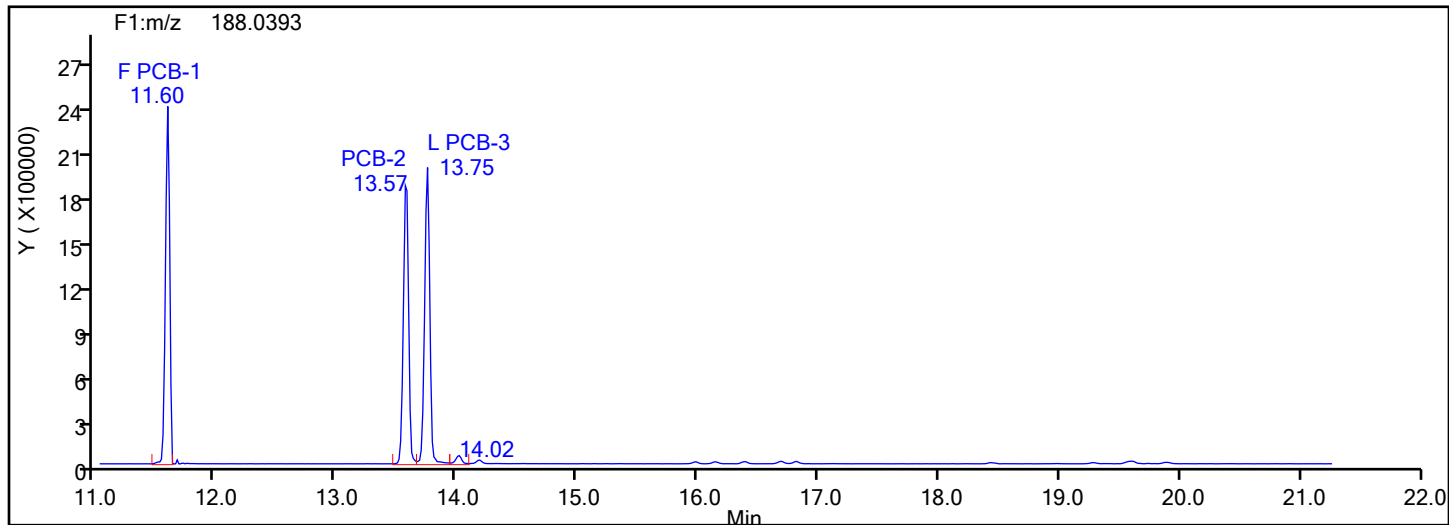


MoPCB F1 Standards

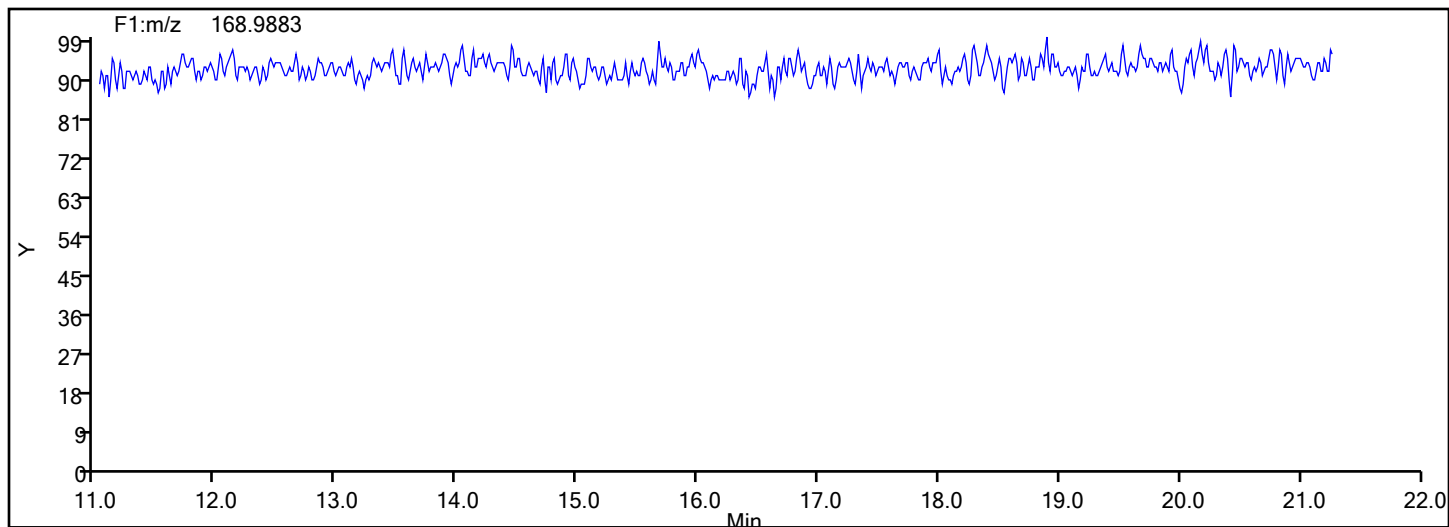


Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531icv.d		
Injection Date:	31-May-2024 22:58:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	87130	Sample Line#:	7
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
MoPCB F1			



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

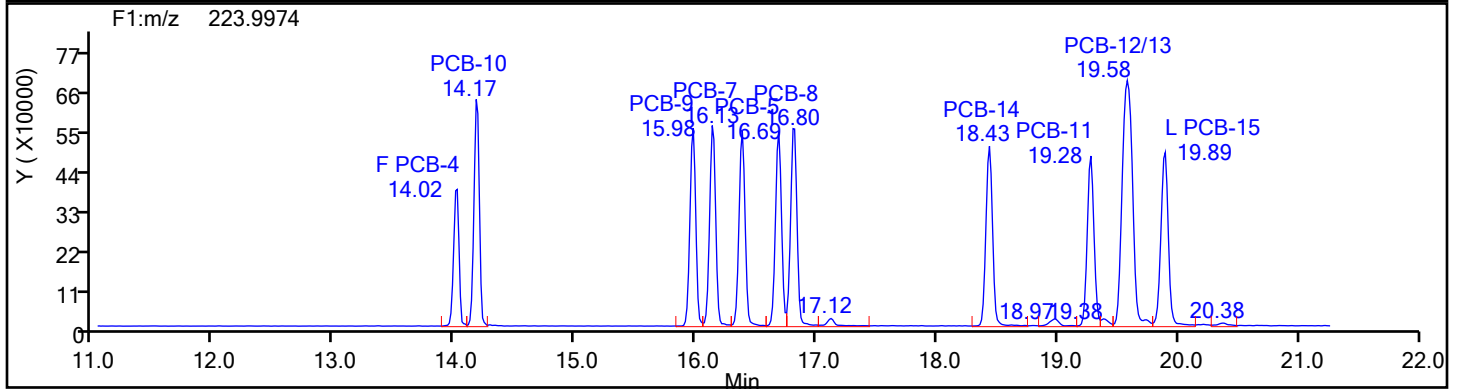
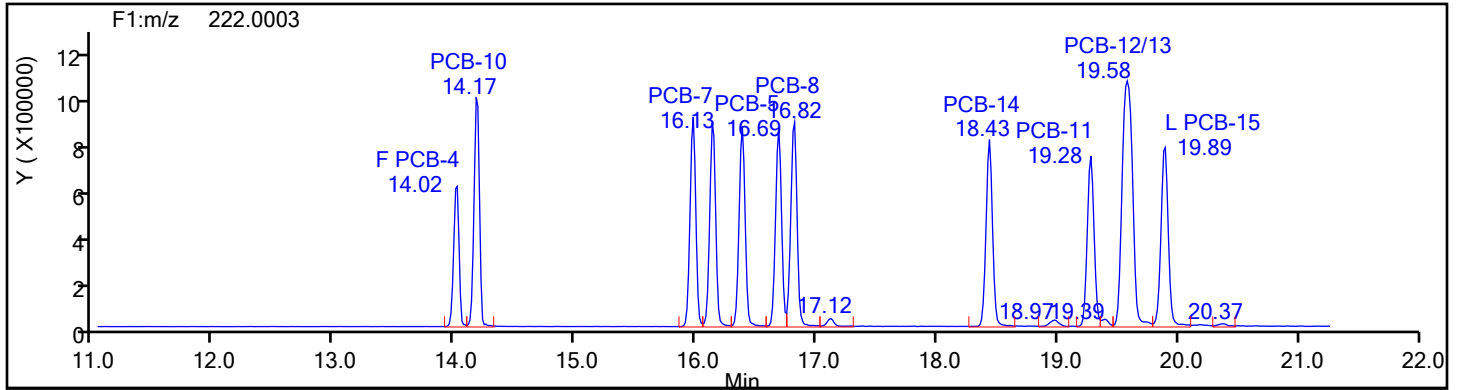
Worklist#: 87130

Sample Line#: 7

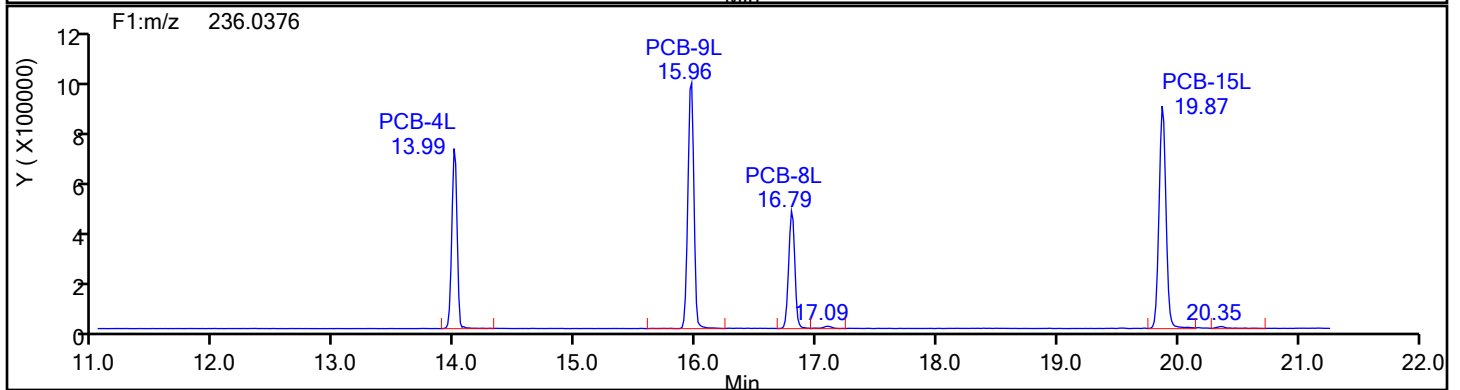
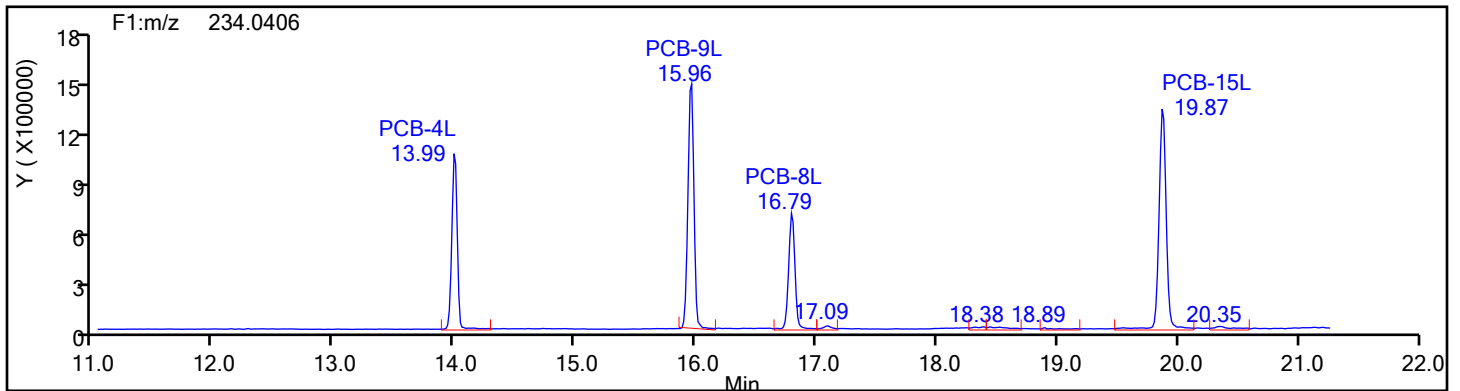
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1

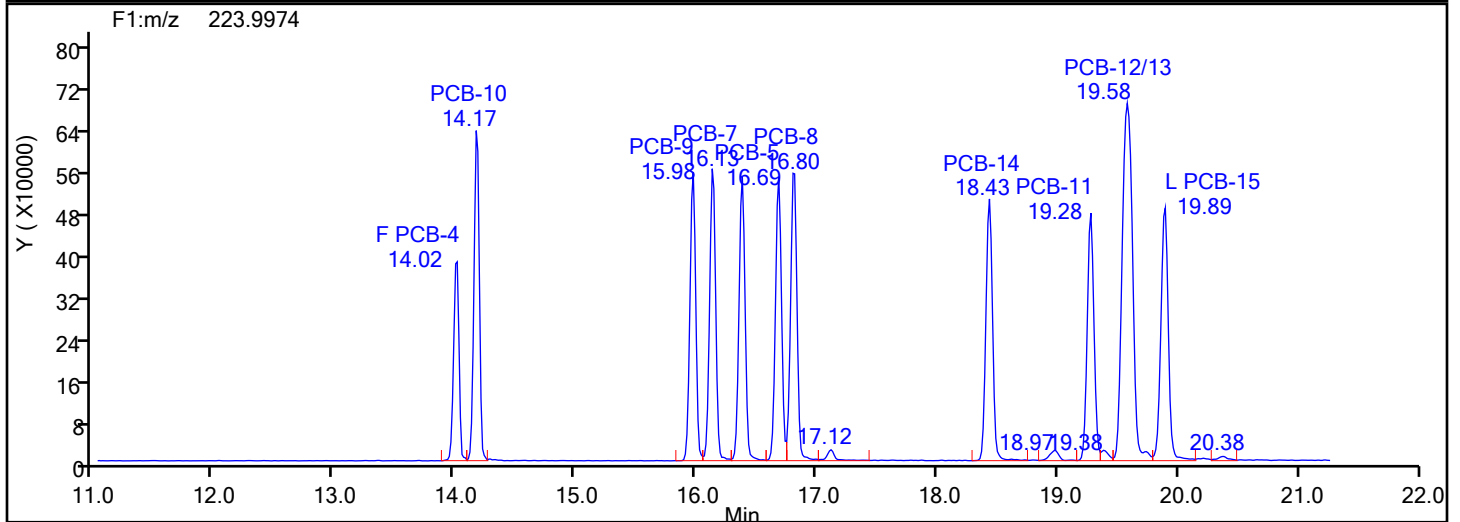
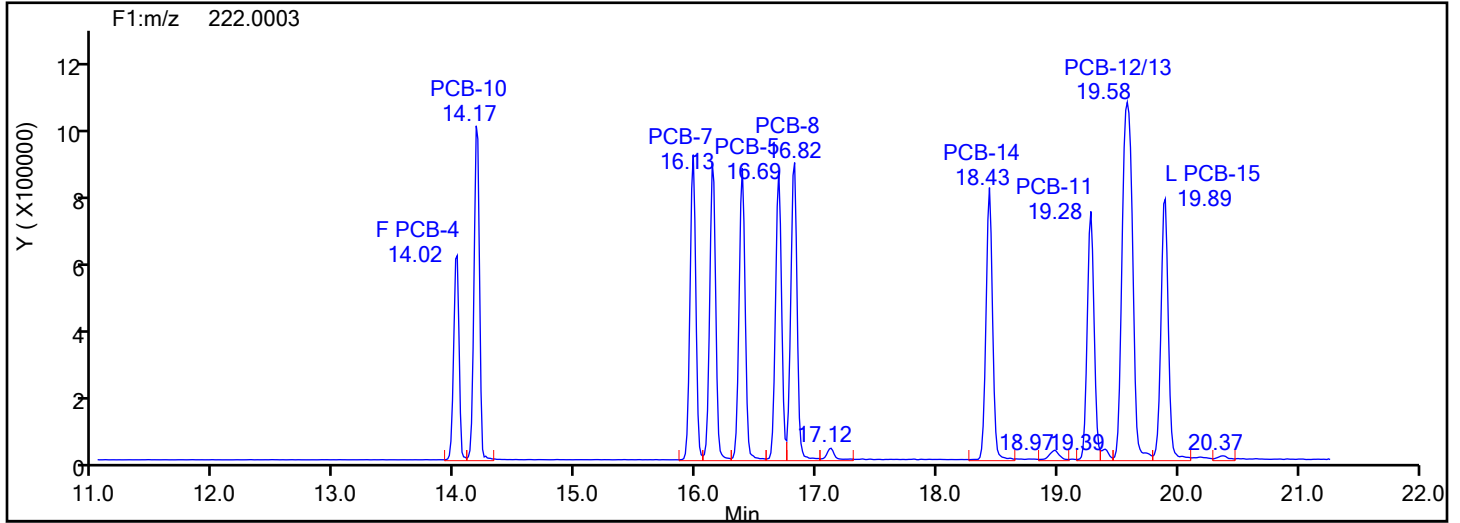


DiPCB F1 Standards

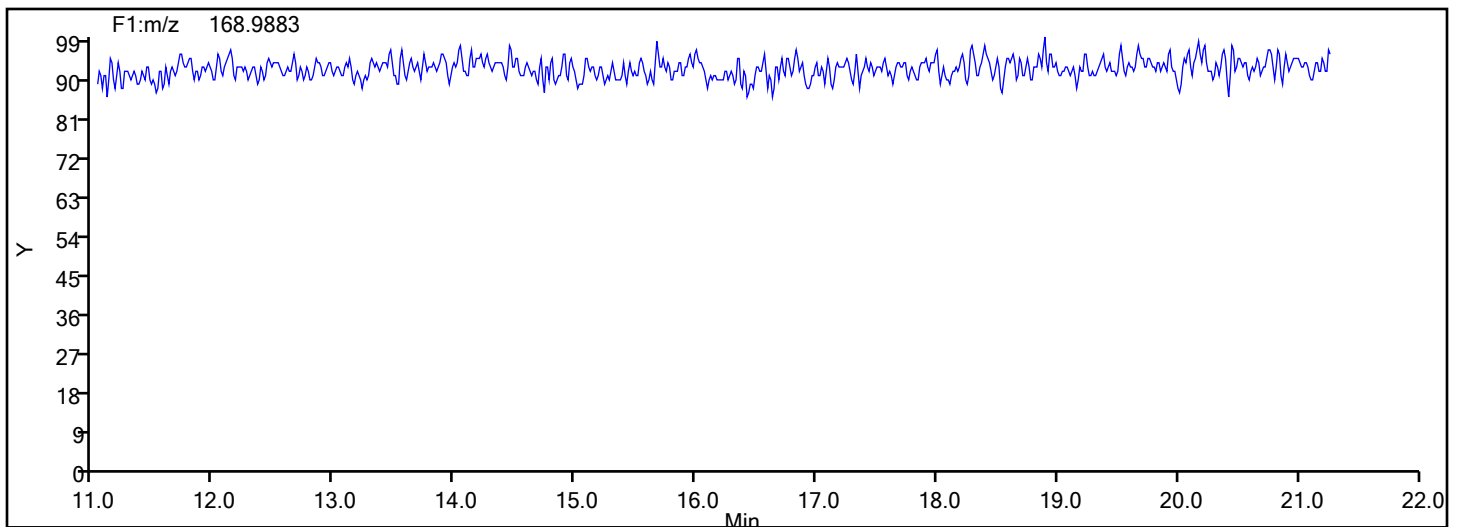


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

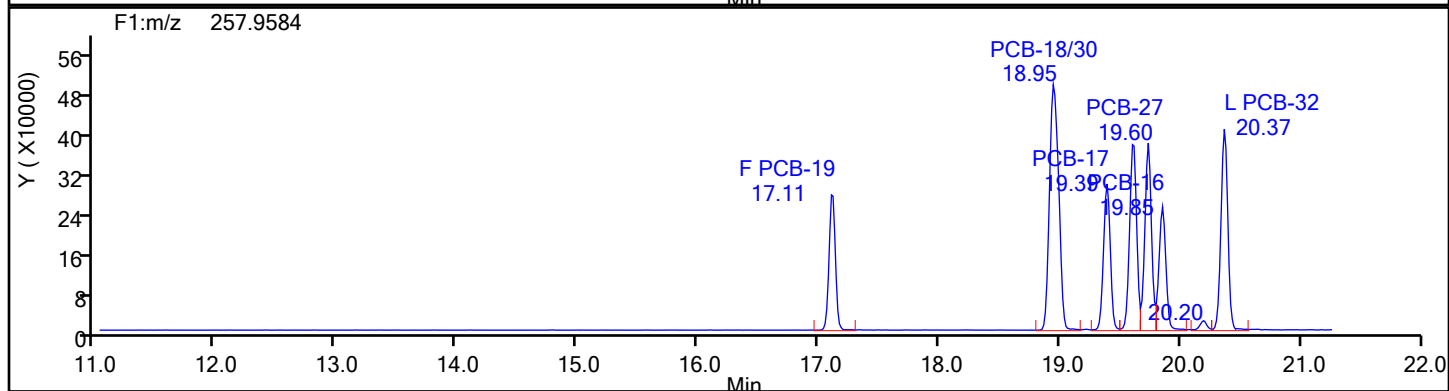
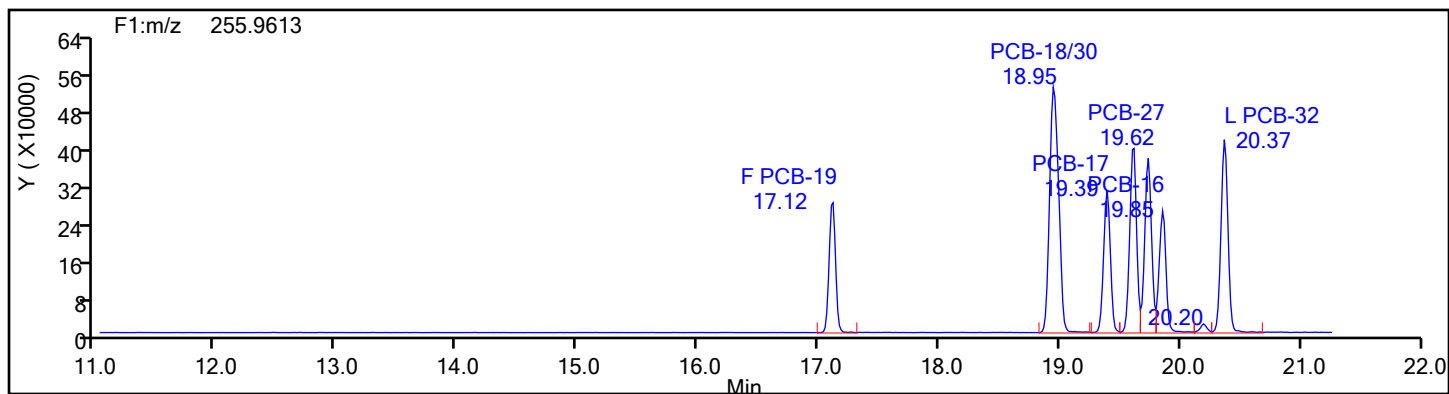
Worklist#: 87130

Sample Line#: 7

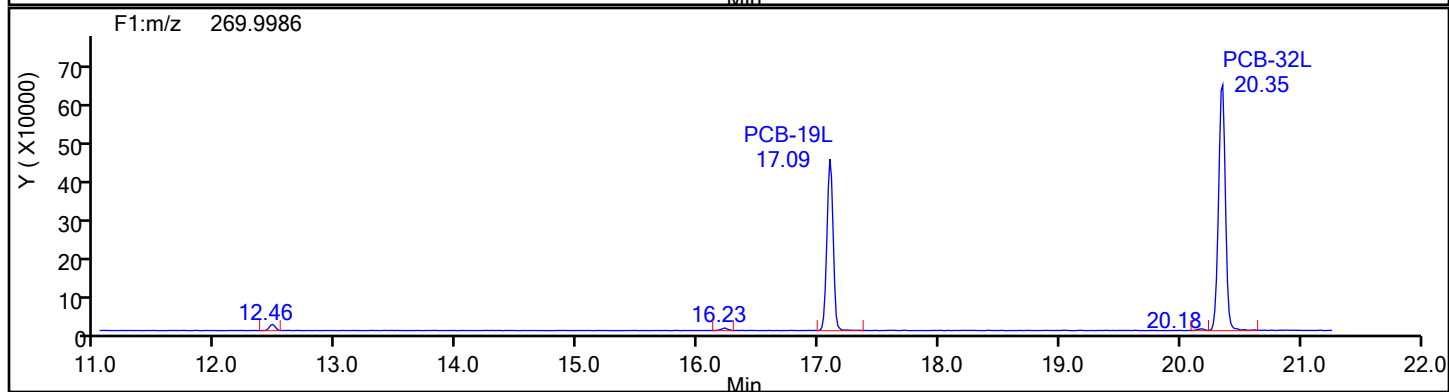
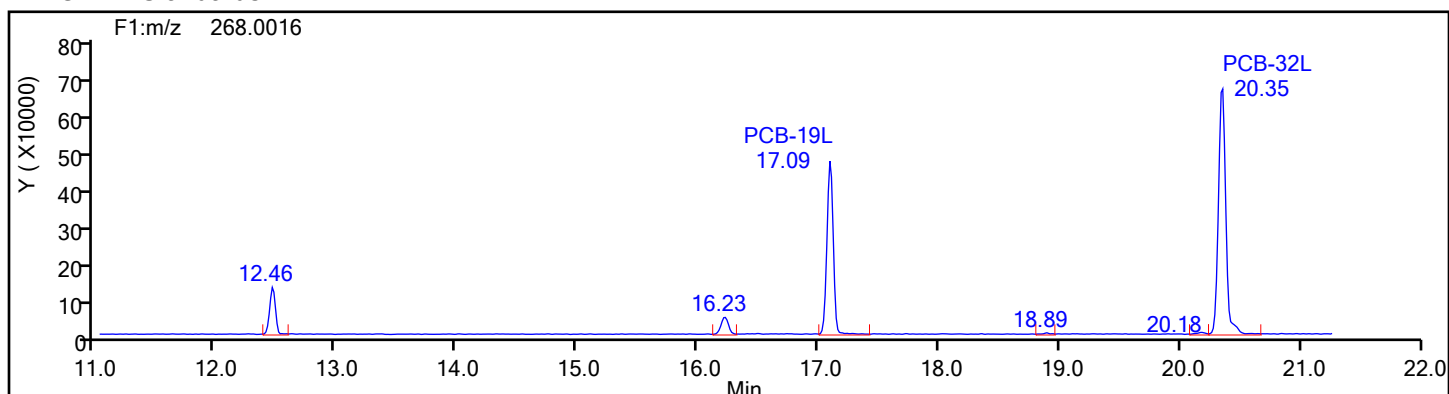
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

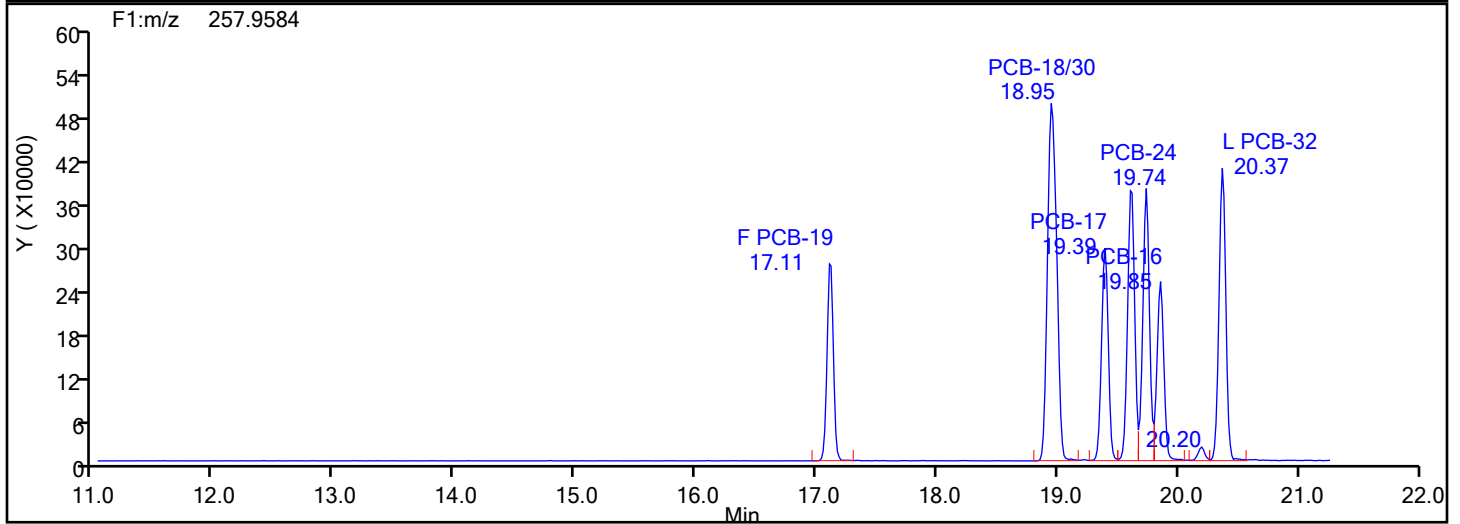
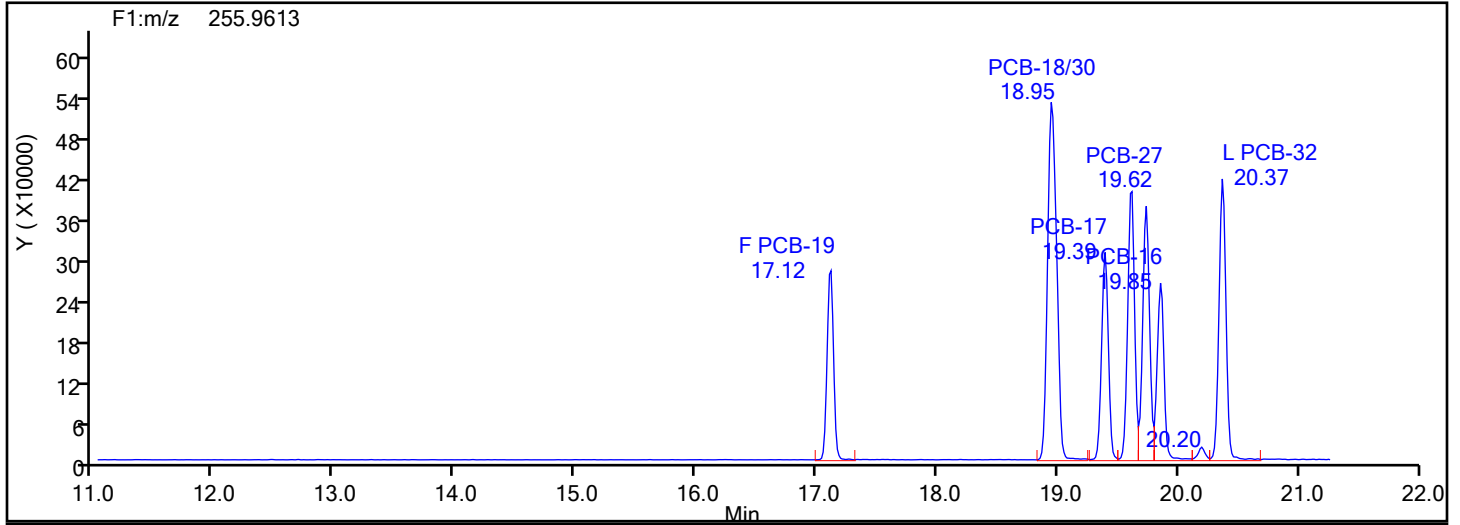
Worklist#: 87130

Sample Line#: 7

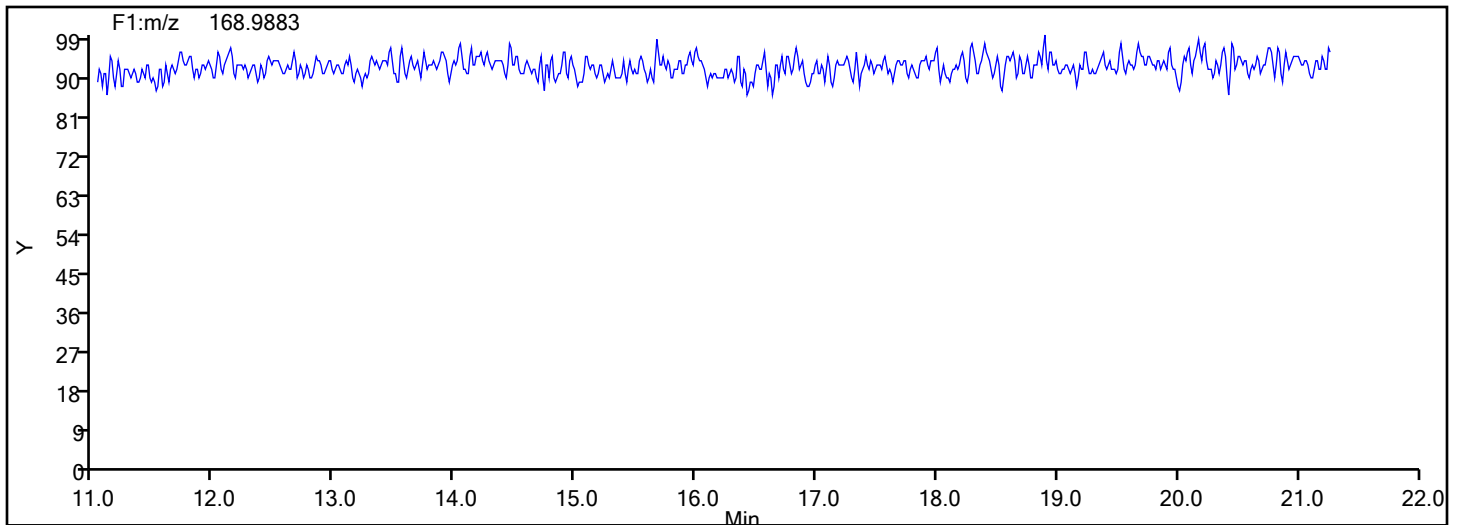
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Chrom Revision: 2.3 23-Jun-2024 11:08:02

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Injection Vol: 1.0 ul

Operator ID: Xcalibur_System

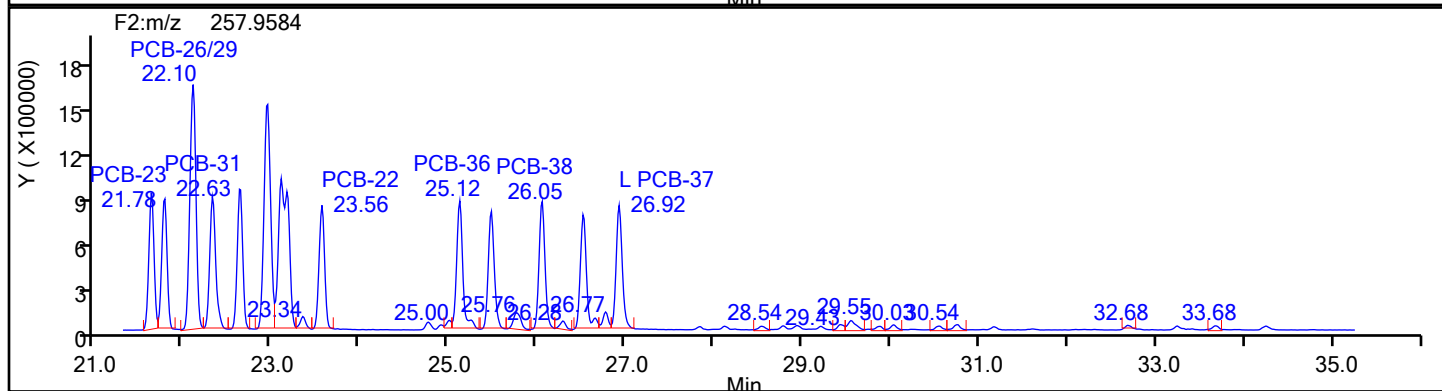
Limit Group: HR - EPA_23 PCB ICAL

Worklist#: 87130

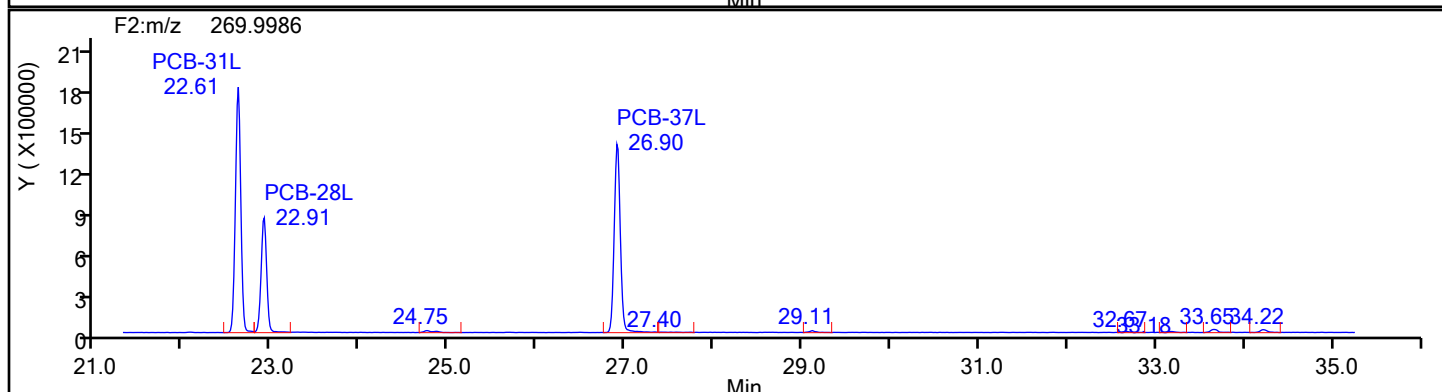
Sample Line#: 7

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

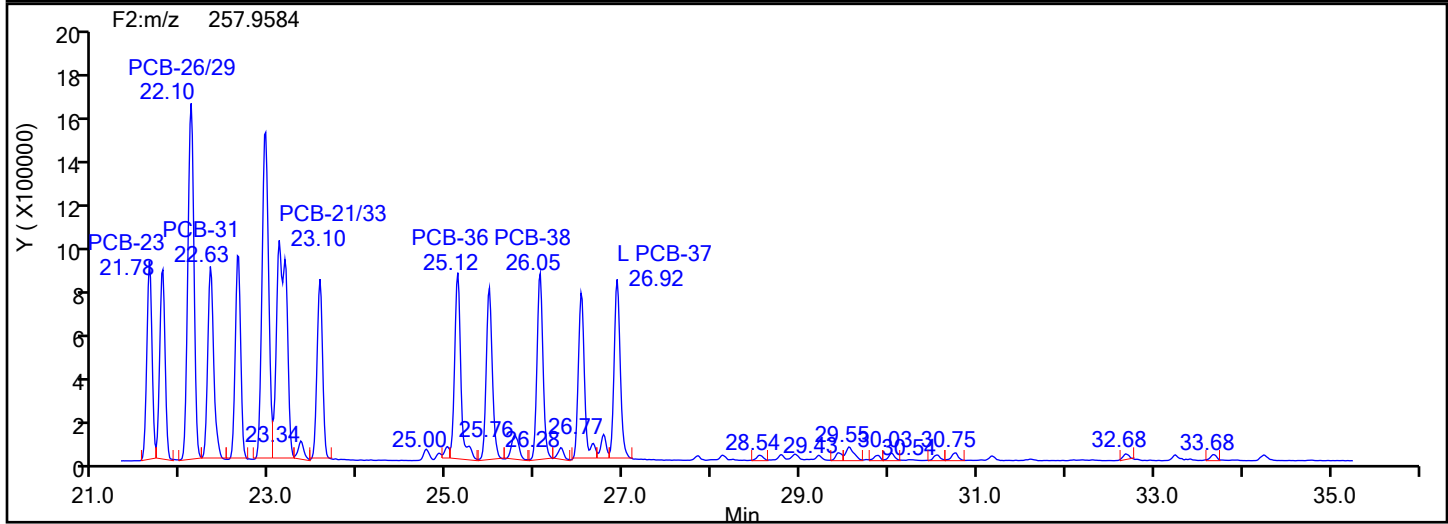
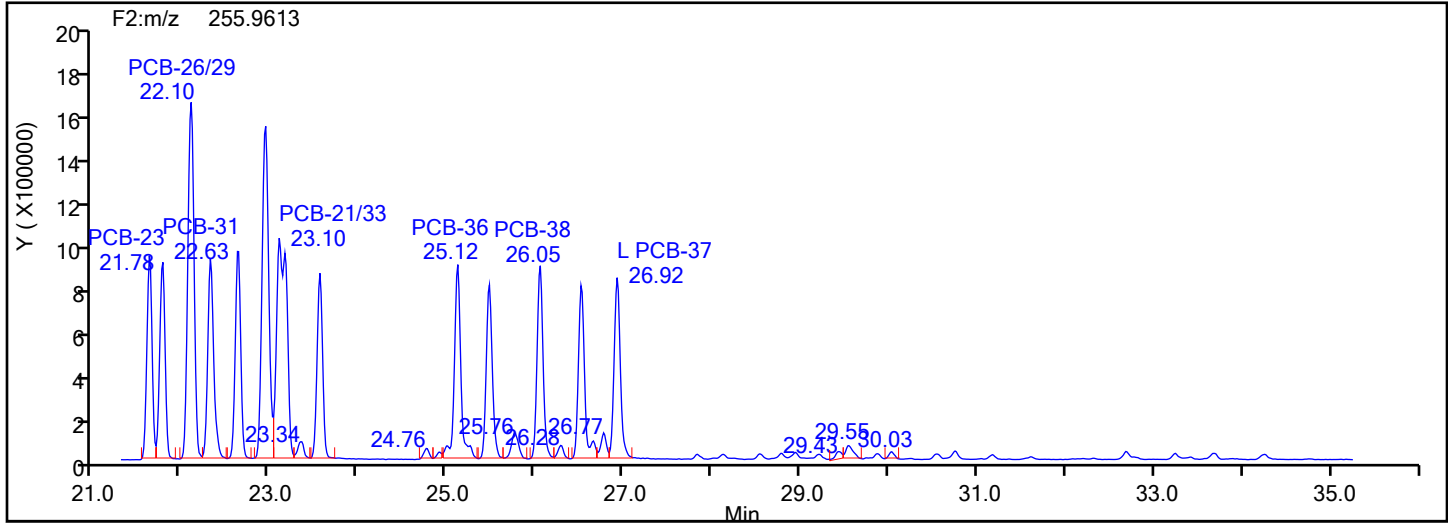
Worklist#: 87130

Sample Line#: 7

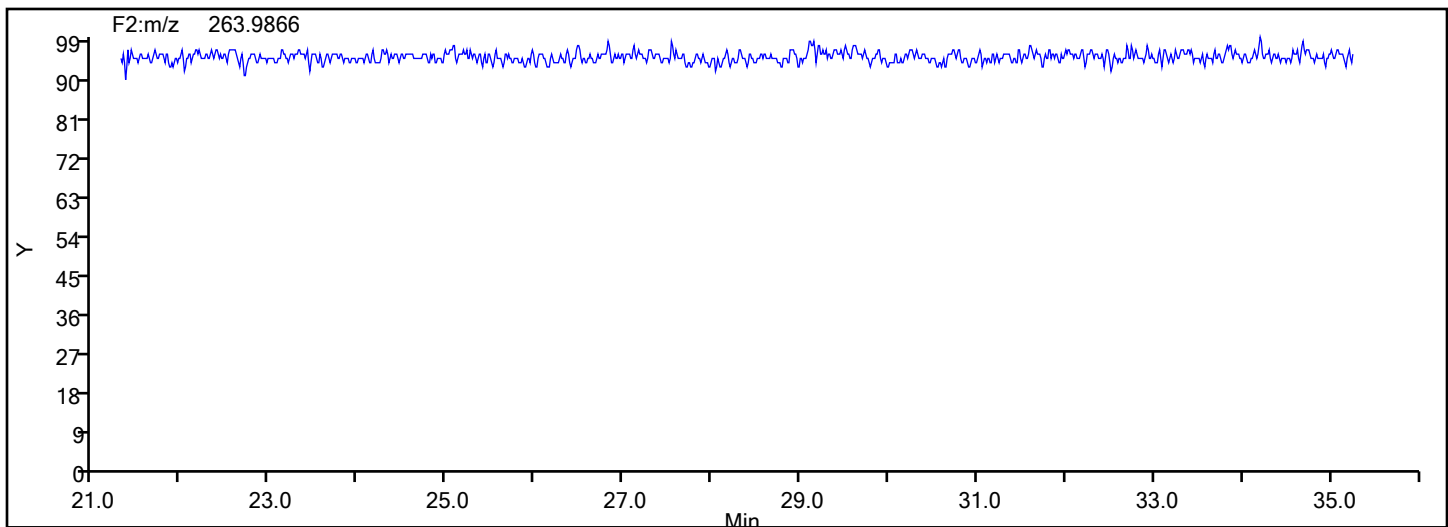
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

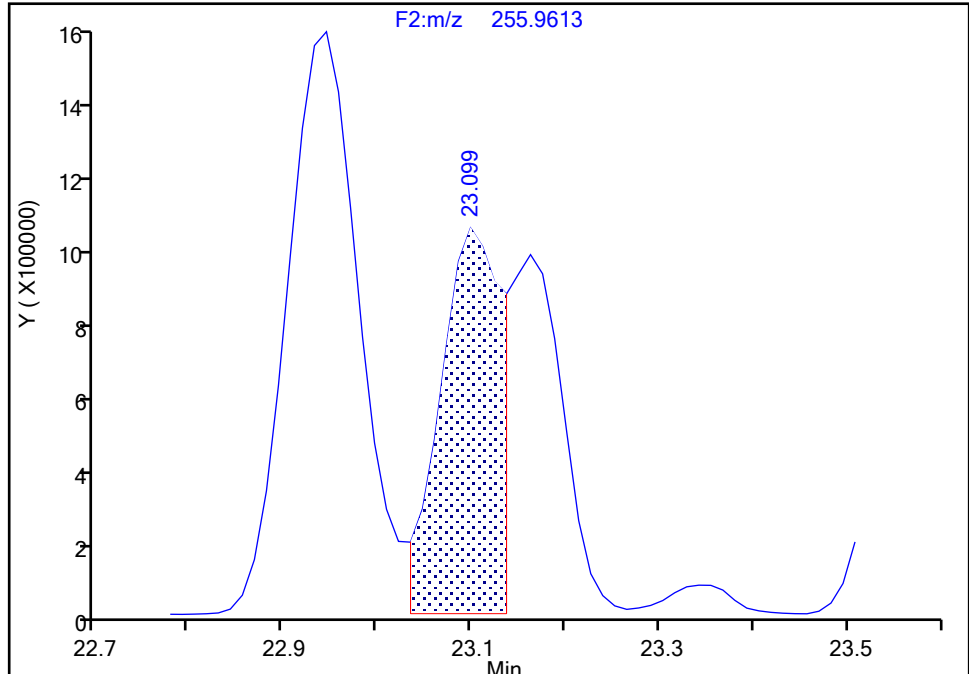
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

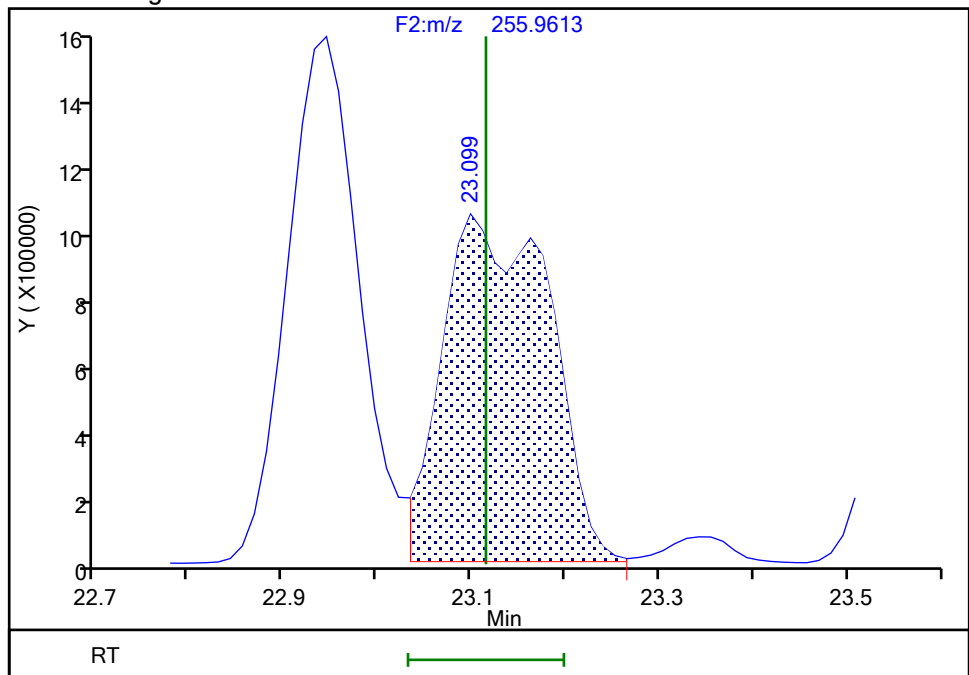
RT: 23.10
Area: 4348927
Amount: 58.859184
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 7956098
Amount: 106.5455
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:07:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

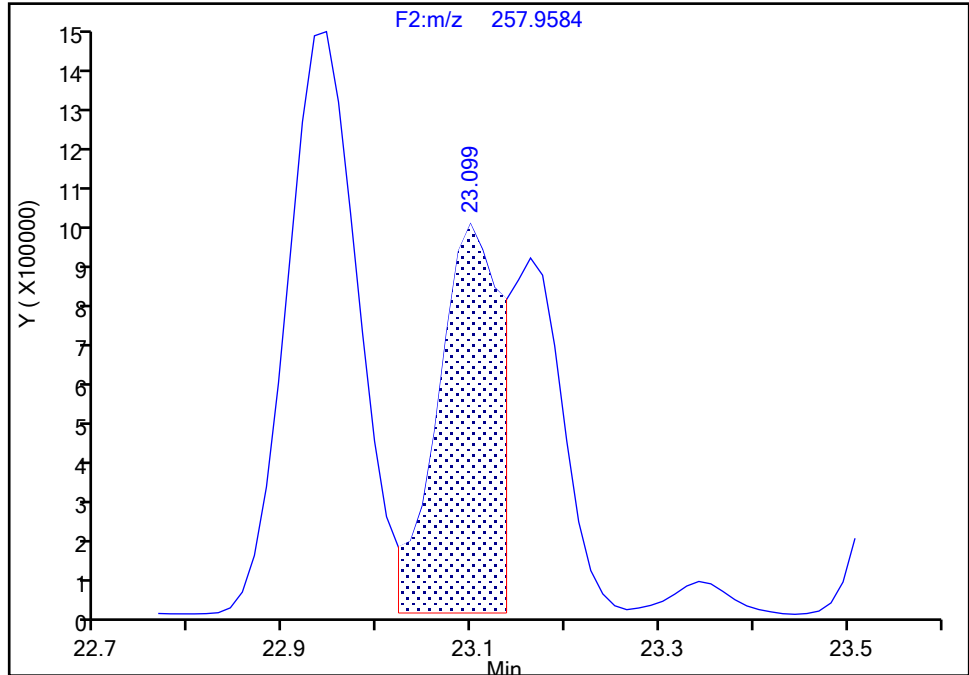
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

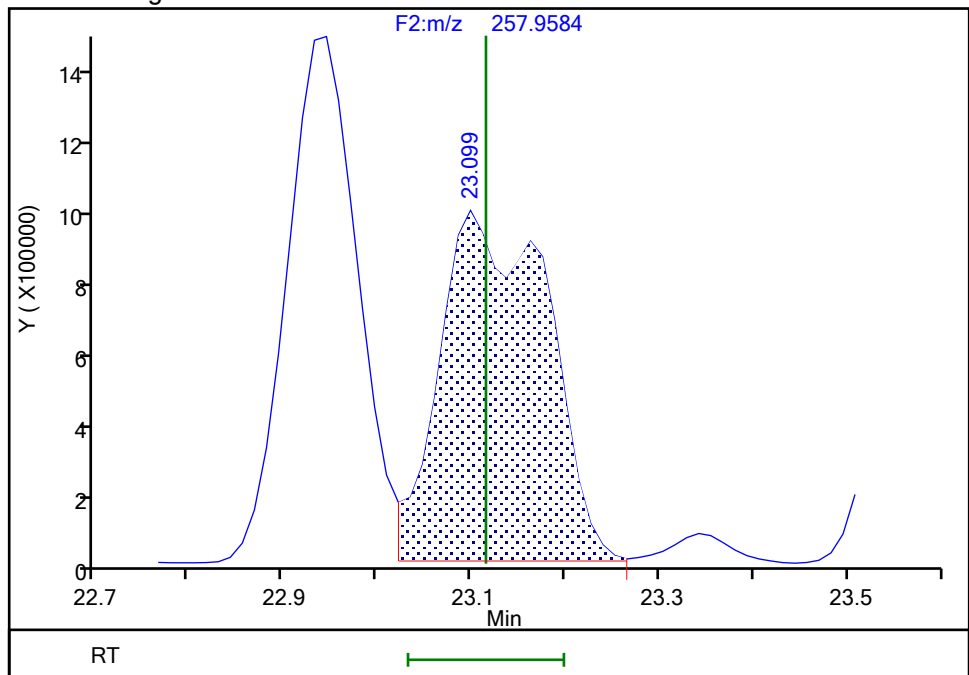
RT: 23.10
Area: 4328847
Amount: 58.859184
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 7752210
Amount: 106.5455
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:07:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

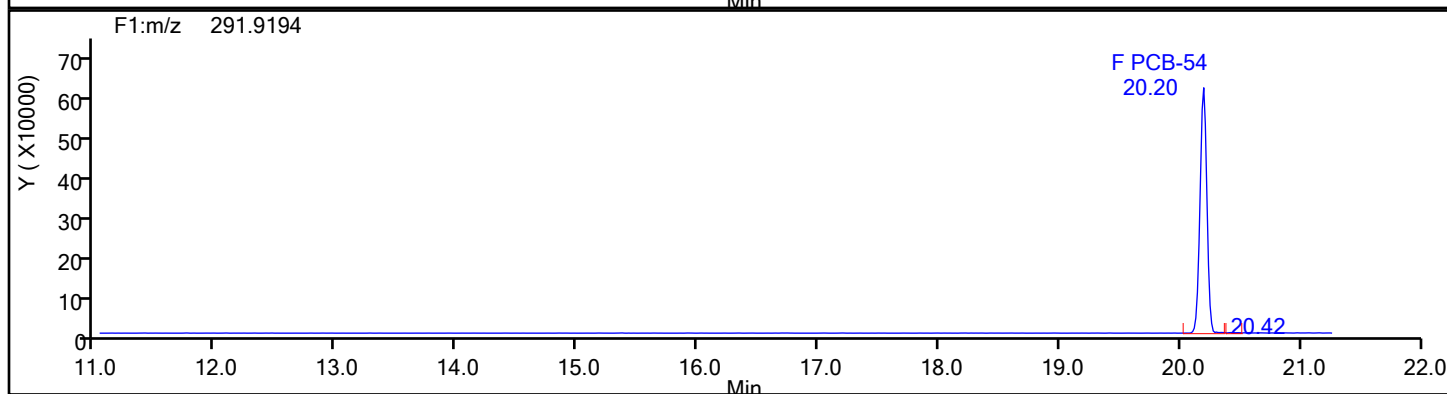
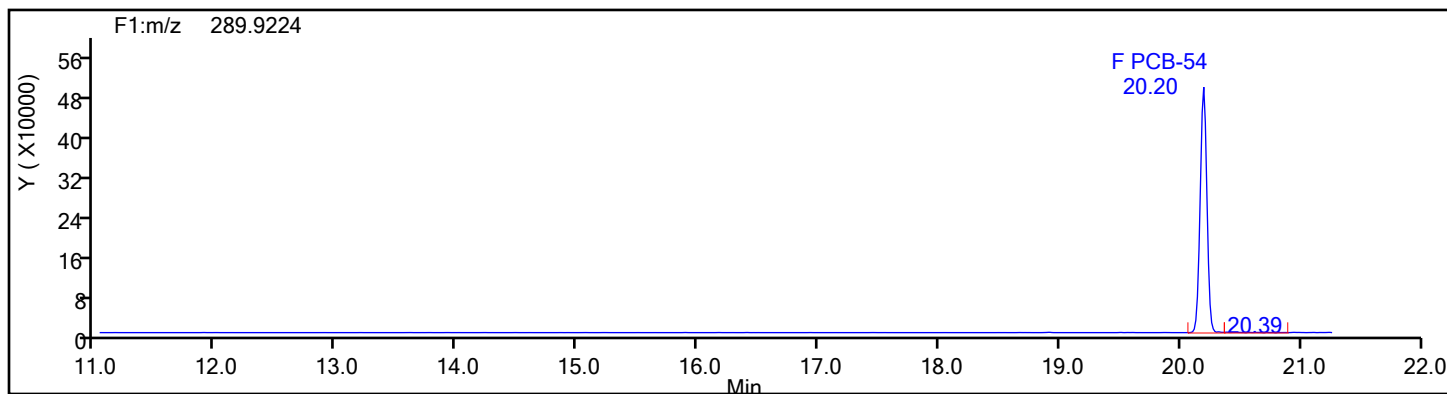
Worklist#: 87130

Sample Line#: 7

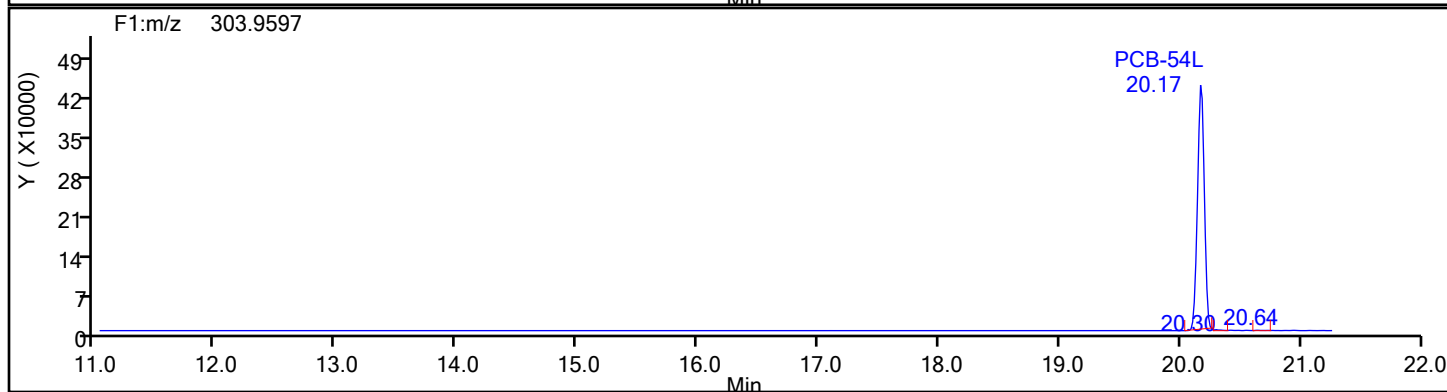
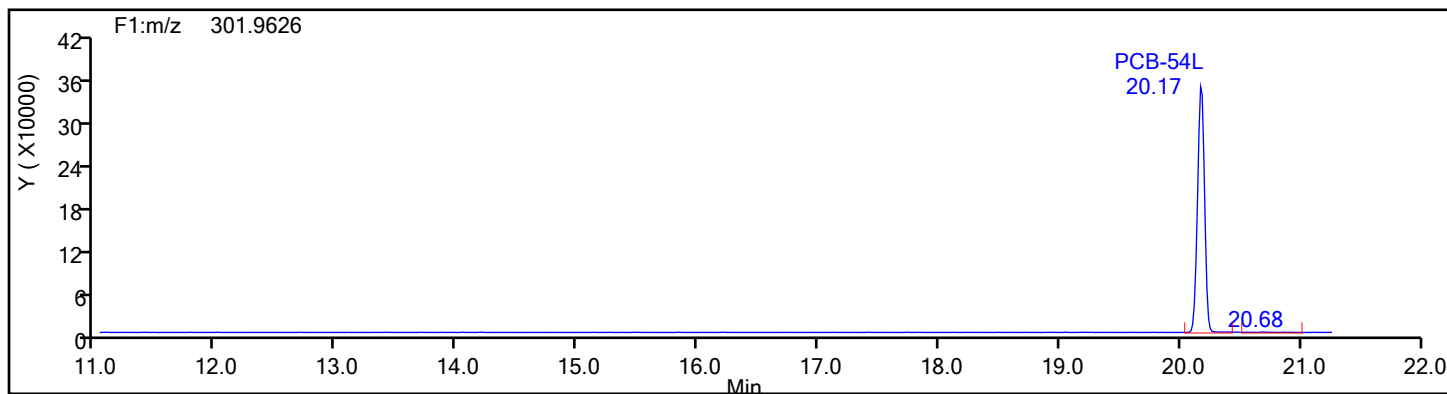
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

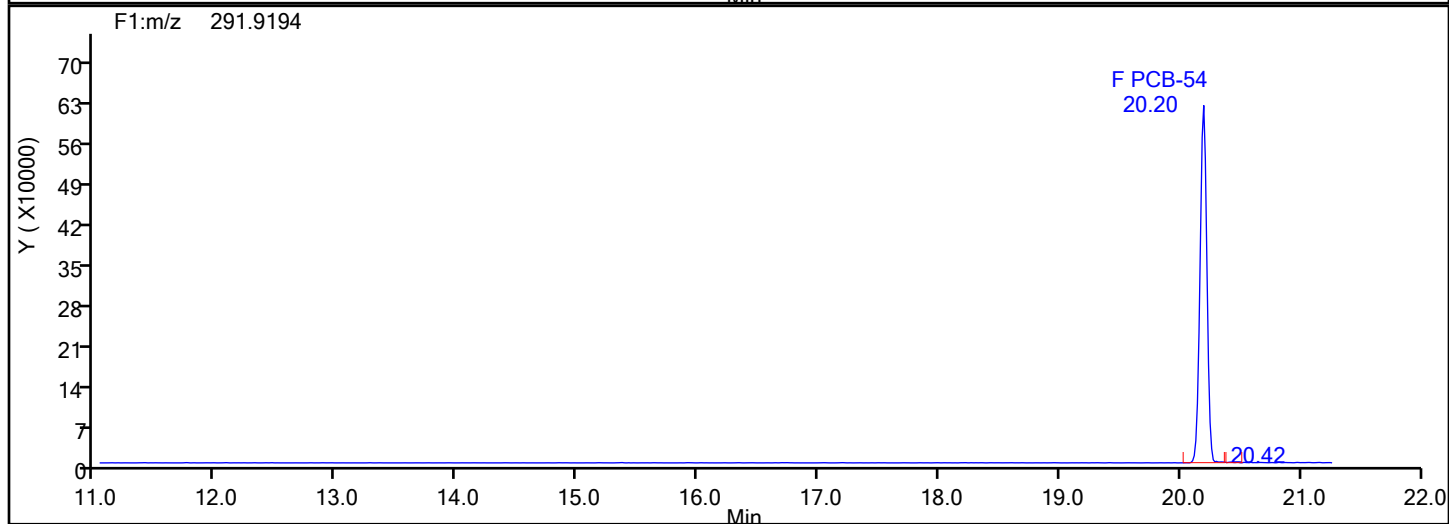
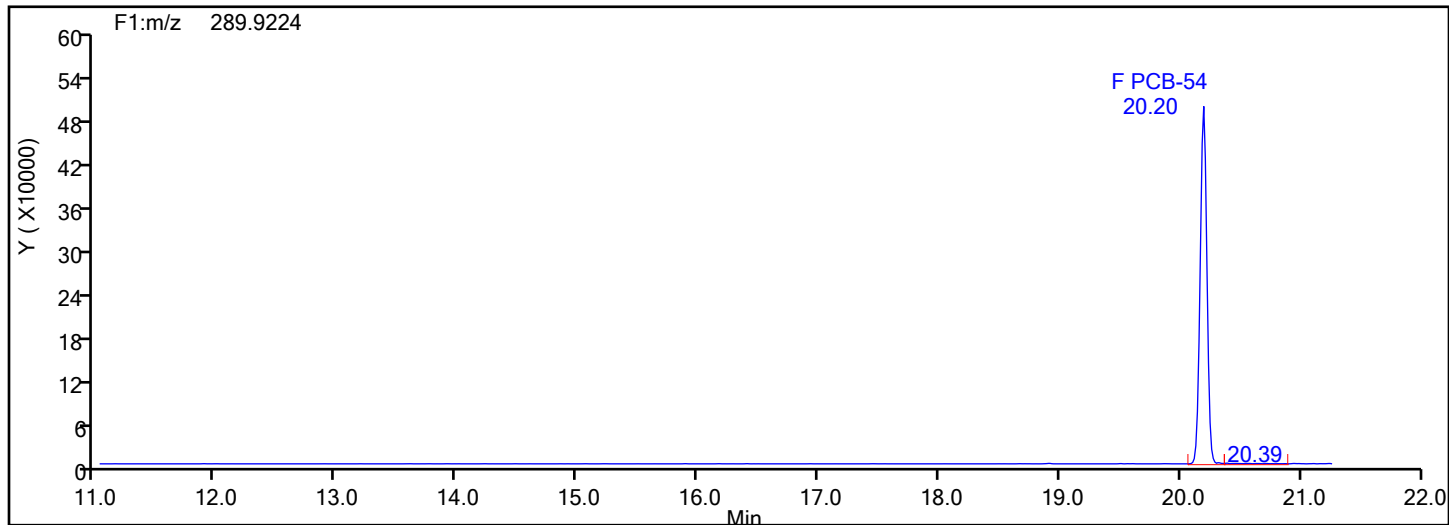


TePCB F1 Standards

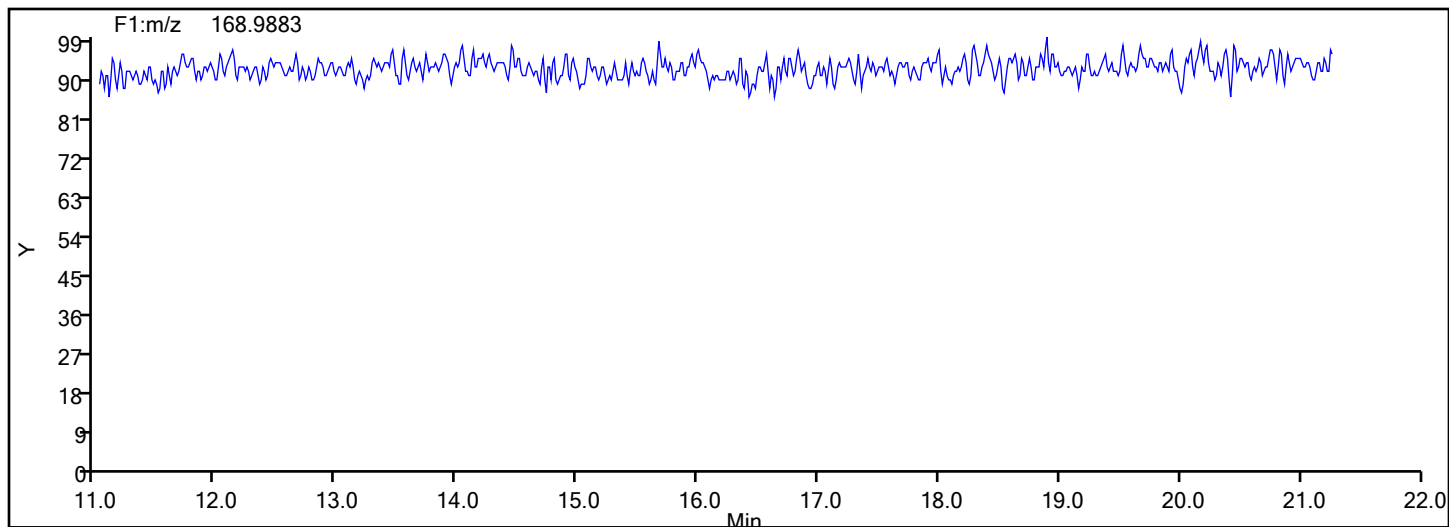


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1



TePCB F1 Lock Mass



Chrom Revision: 2.3 23-Jun-2024 11:08:02

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

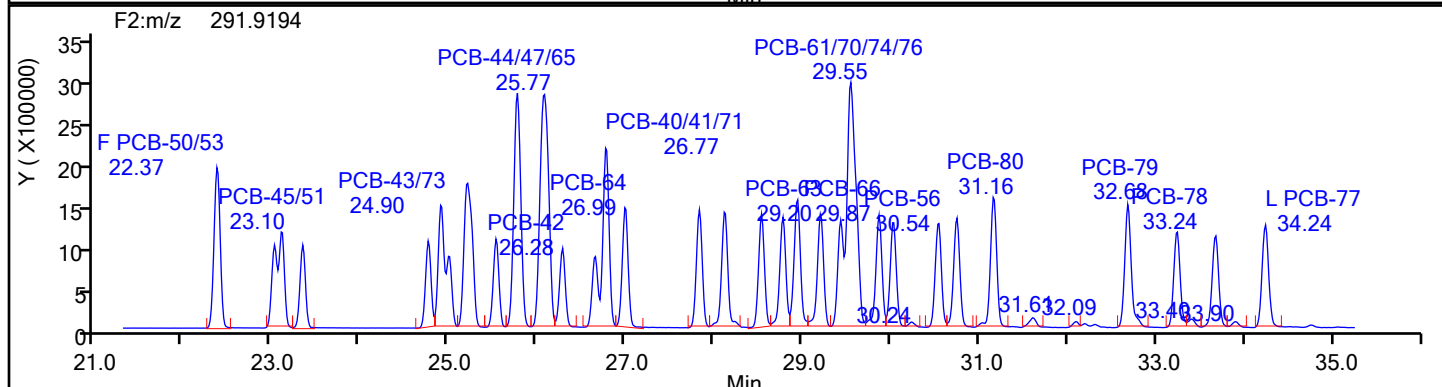
Limit Group: HR - EPA 23 PCB ICAL

Sample Line#: 7

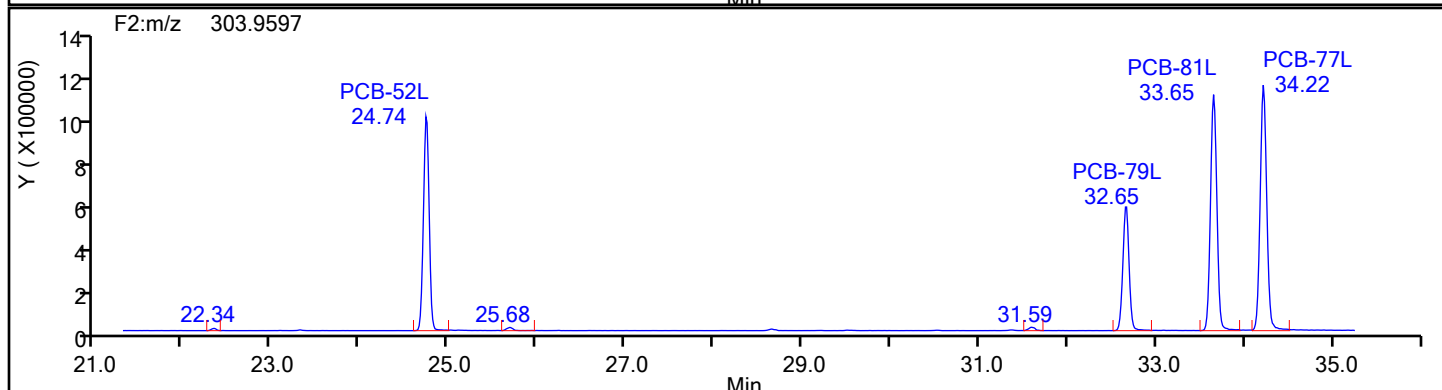
Sample Line#: 7

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

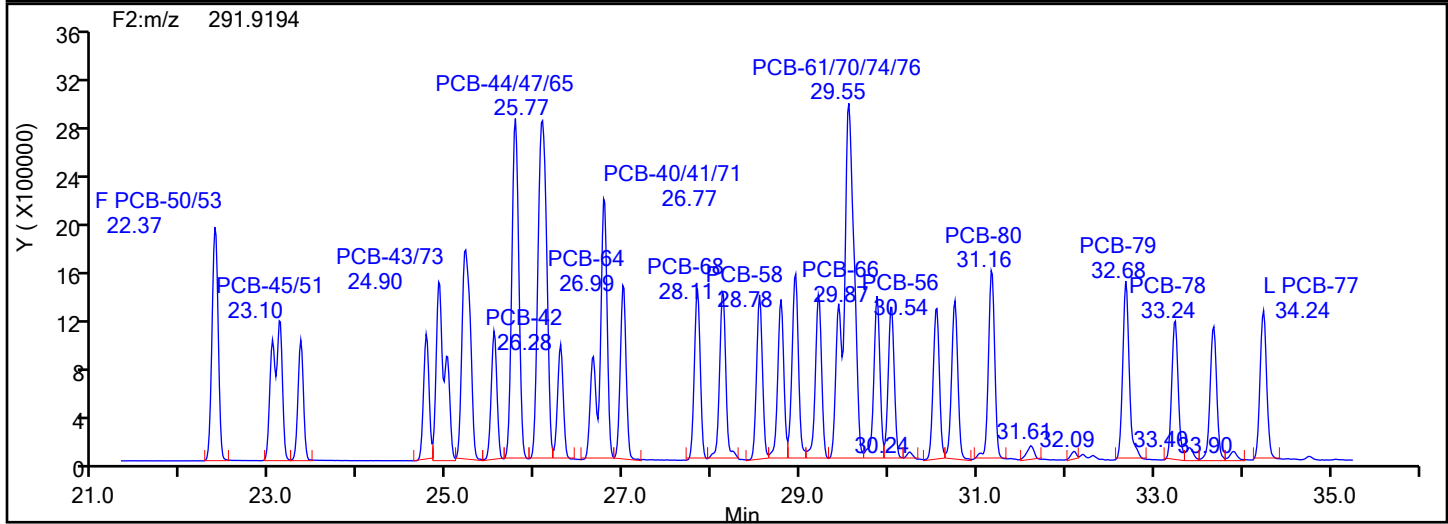
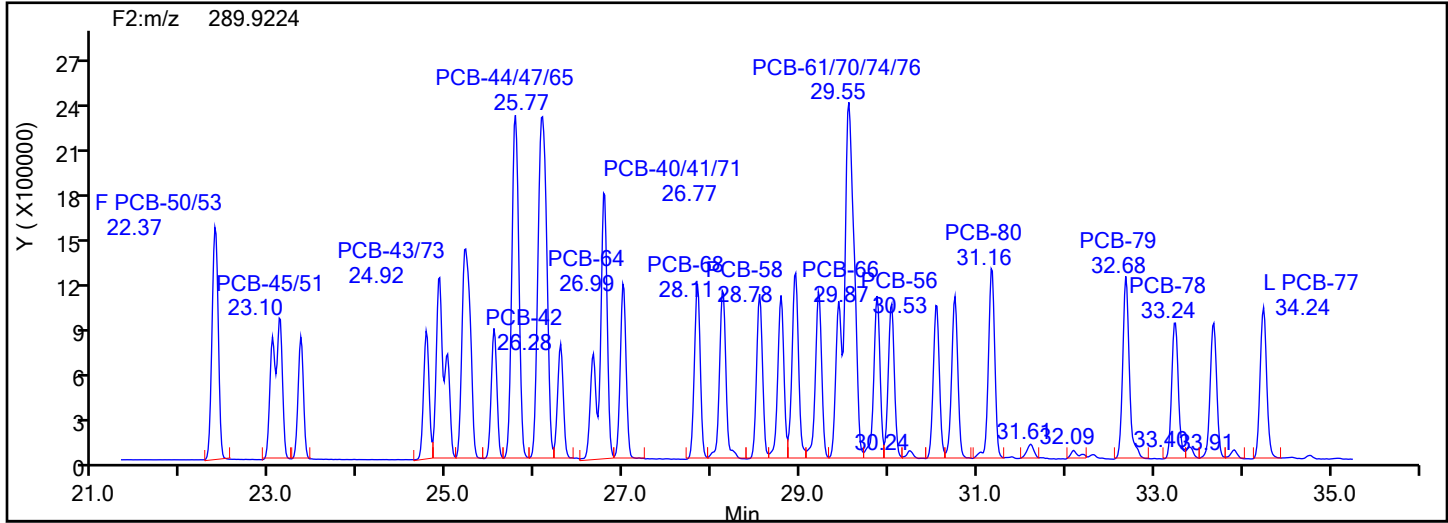
Worklist#: 87130

Sample Line#: 7

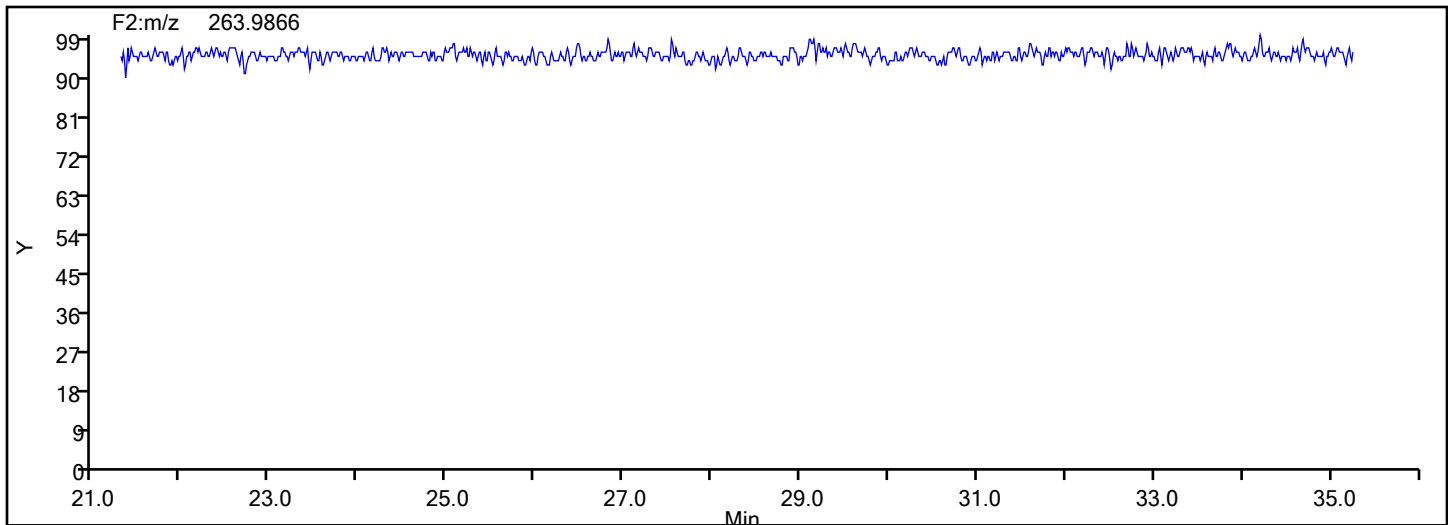
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

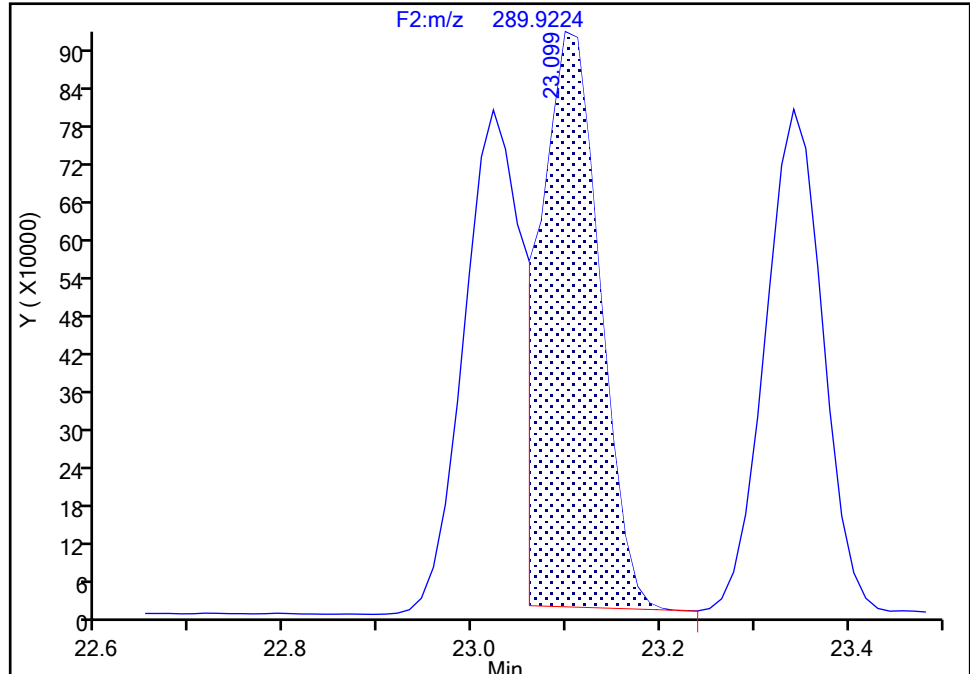
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

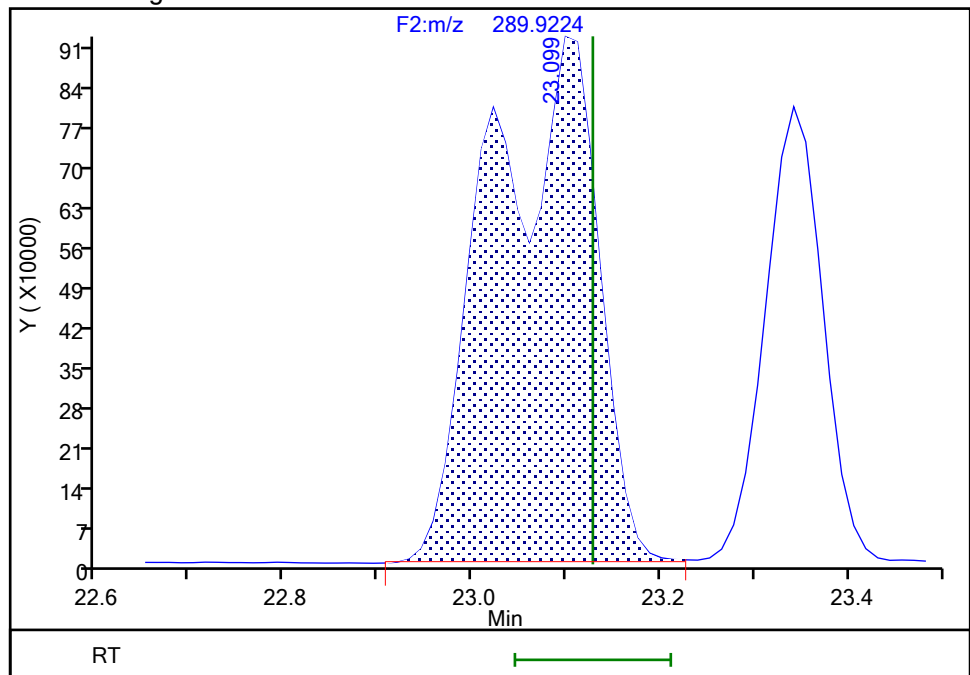
RT: 23.10
Area: 3944356
Amount: 108.0837
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 7266784
Amount: 199.5247
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:07:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

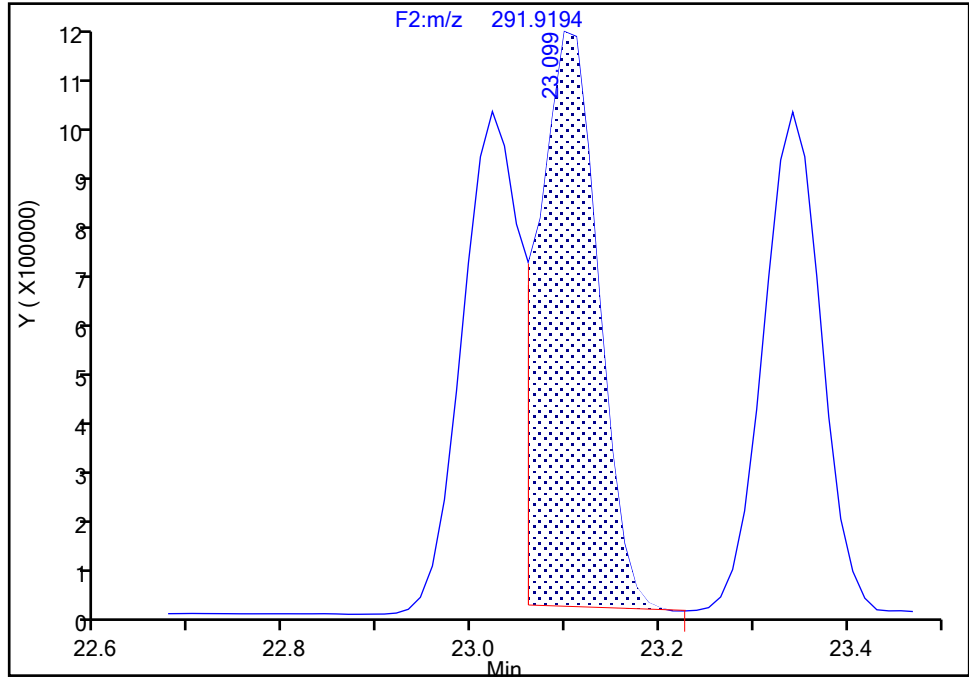
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Instrument ID: D2D
Lims ID: ICV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

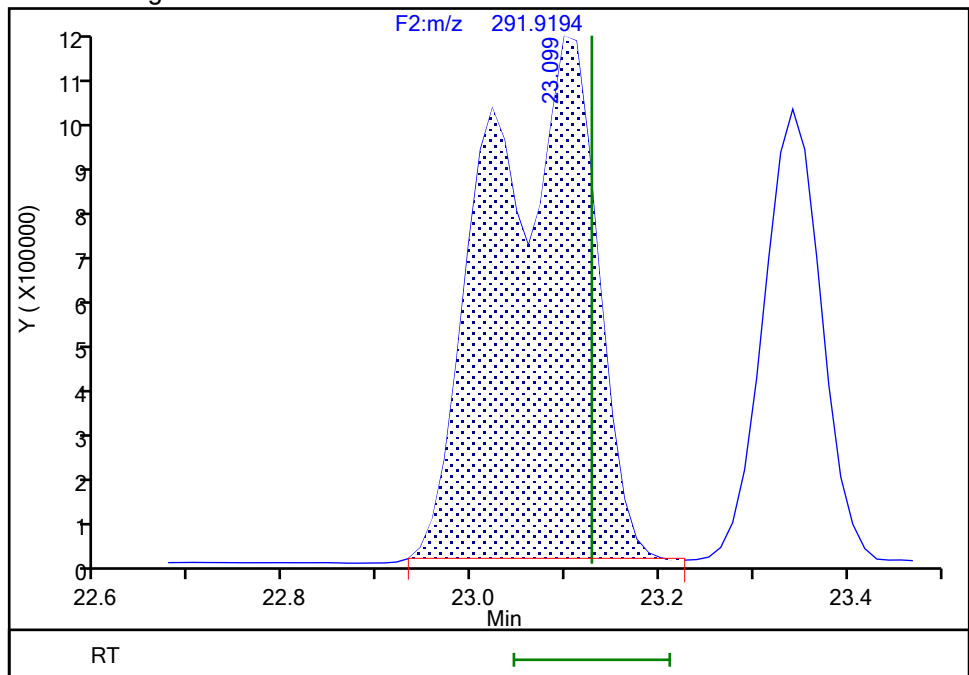
RT: 23.10
Area: 4947557
Amount: 108.0837
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 9147858
Amount: 199.5247
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:07:57 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

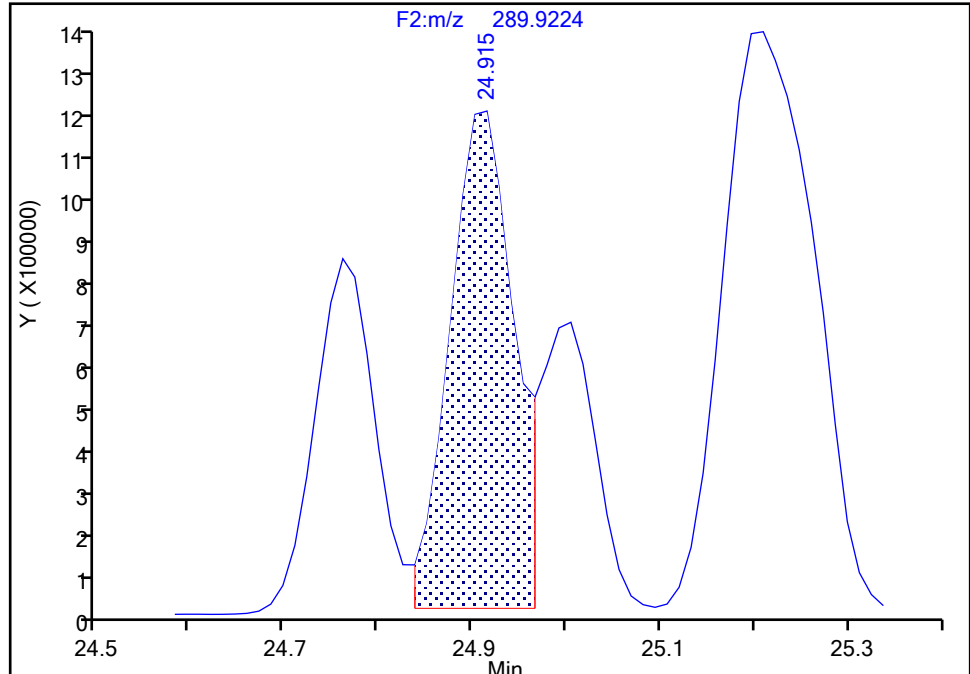
Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

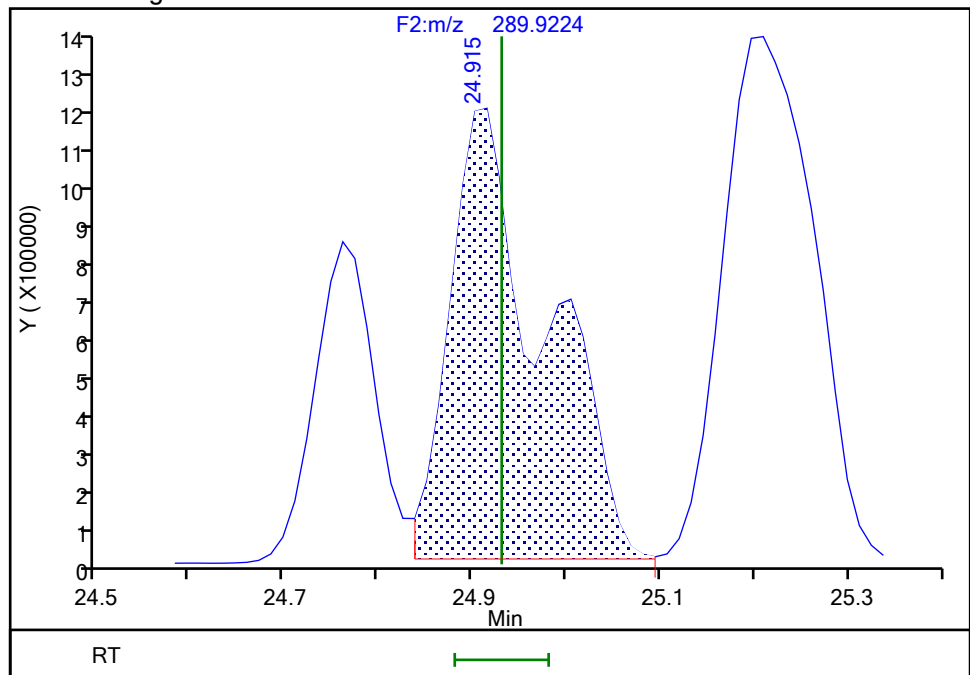
RT: 24.92
Area: 5521608
Amount: 120.8756
Amount Units: pg/ul

Processing Integration Results



RT: 24.92
Area: 8232470
Amount: 181.3642
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:08:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

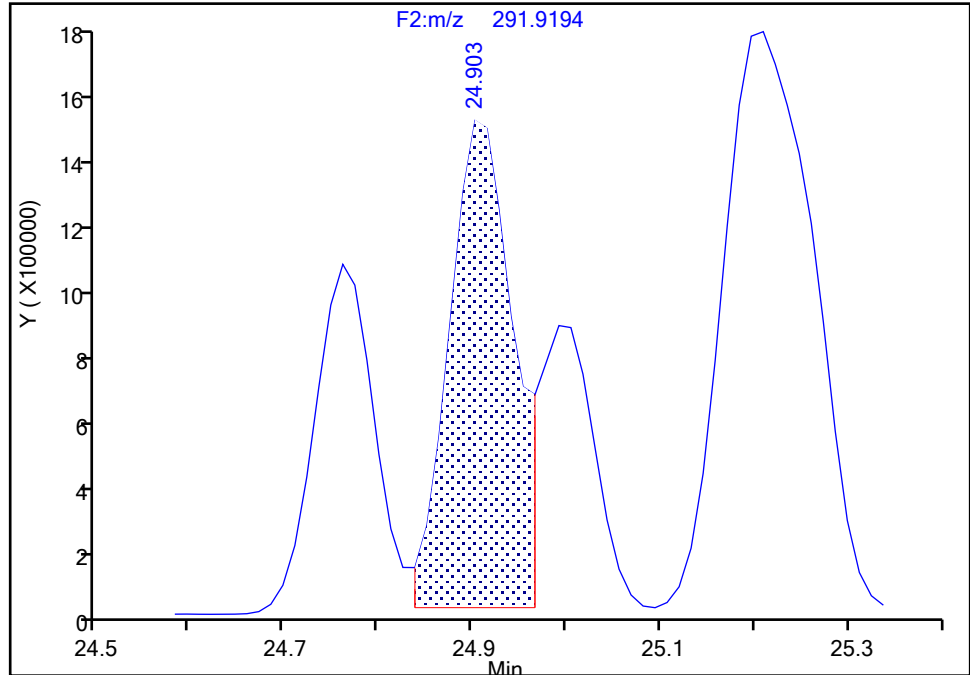
F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

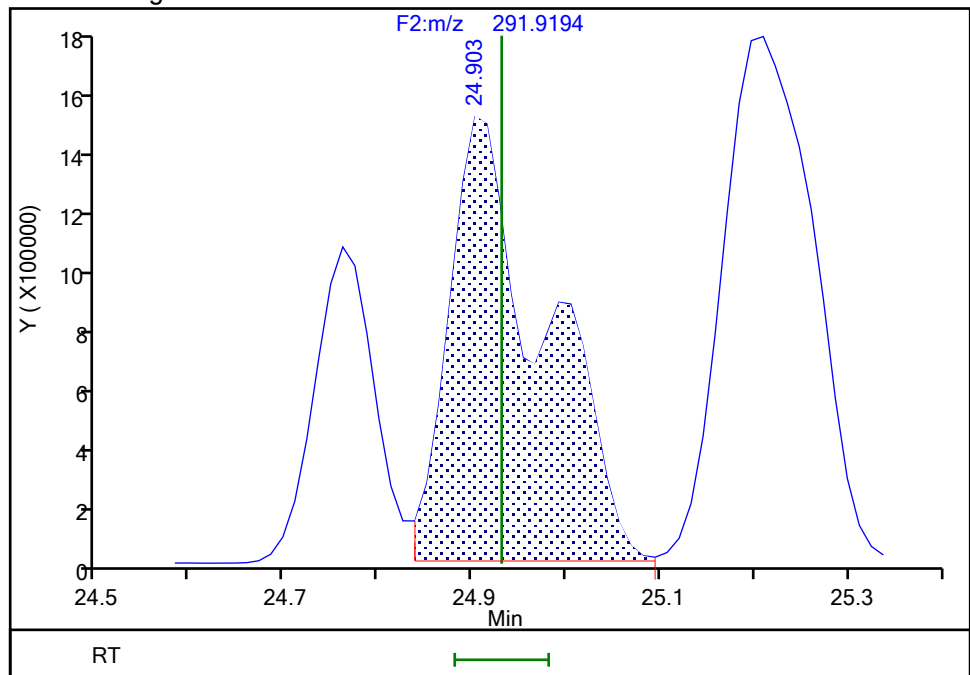
RT: 24.90
Area: 6912452
Amount: 120.8756
Amount Units: pg/ul

Processing Integration Results



RT: 24.90
Area: 10423848
Amount: 181.3642
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:08:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

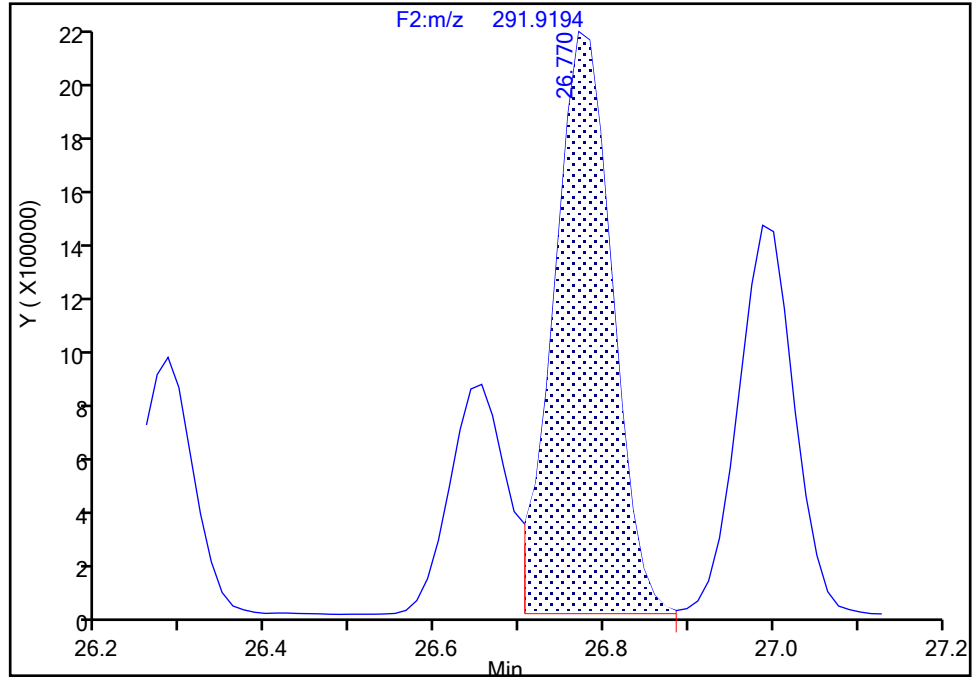
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

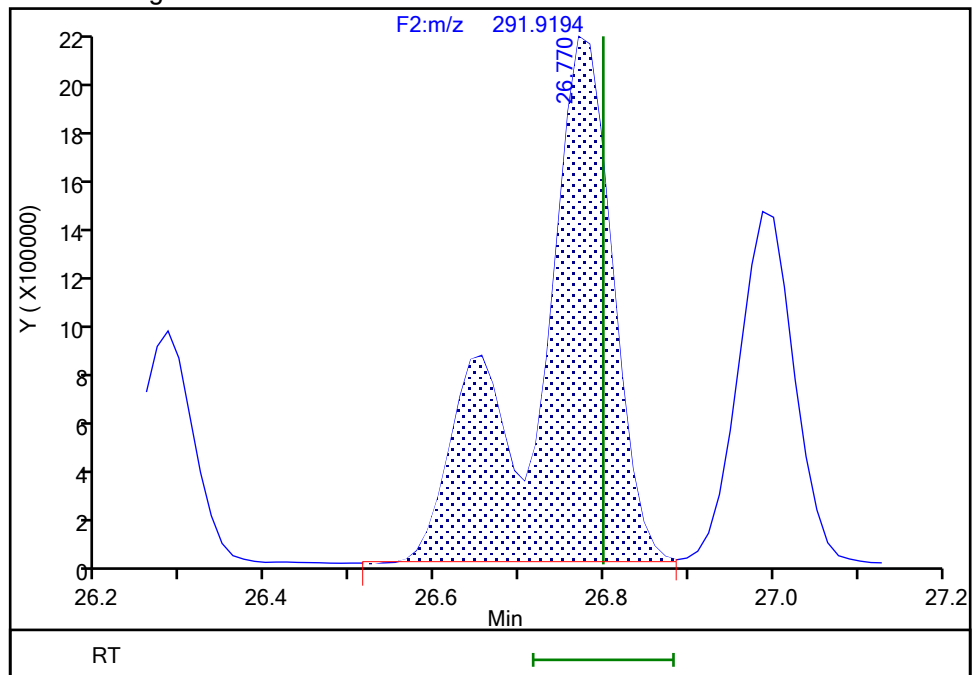
RT: 26.77
Area: 10371796
Amount: 211.0123
Amount Units: pg/ul

Processing Integration Results



RT: 26.77
Area: 14336238
Amount: 292.3129
Amount Units: pg/ul

Manual Integration Results



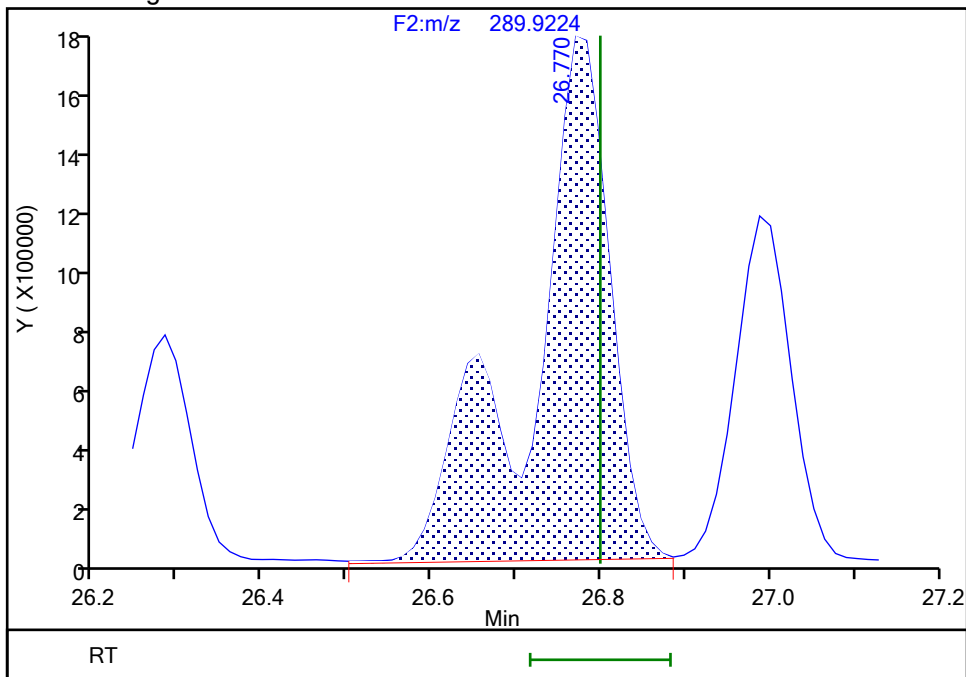
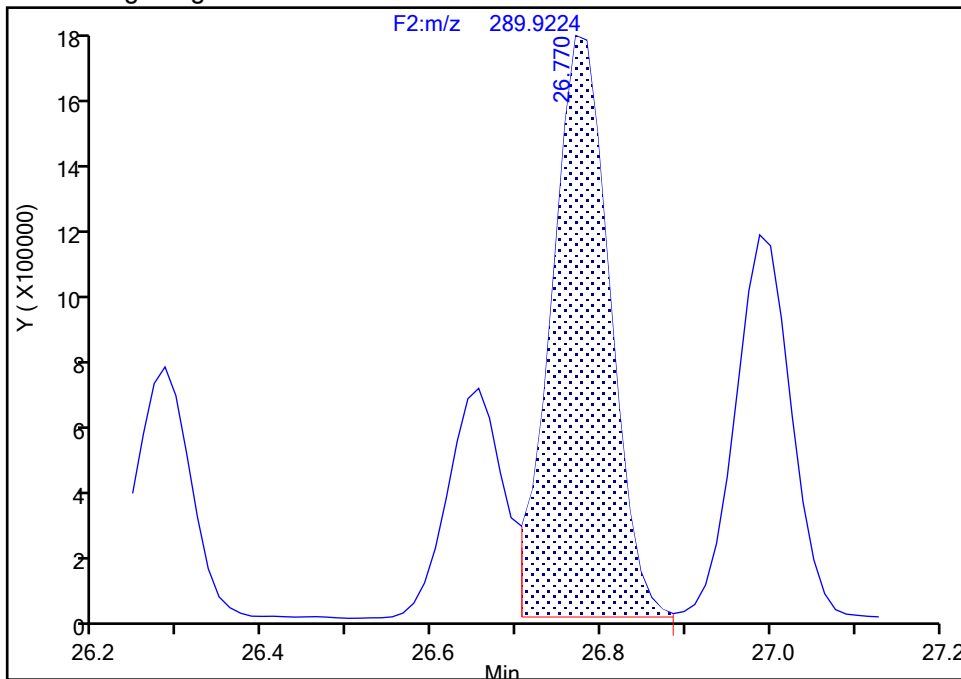
Reviewer: P0IK, 01-Jun-2024 11:08:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Detector F2(21.81 :35.54)

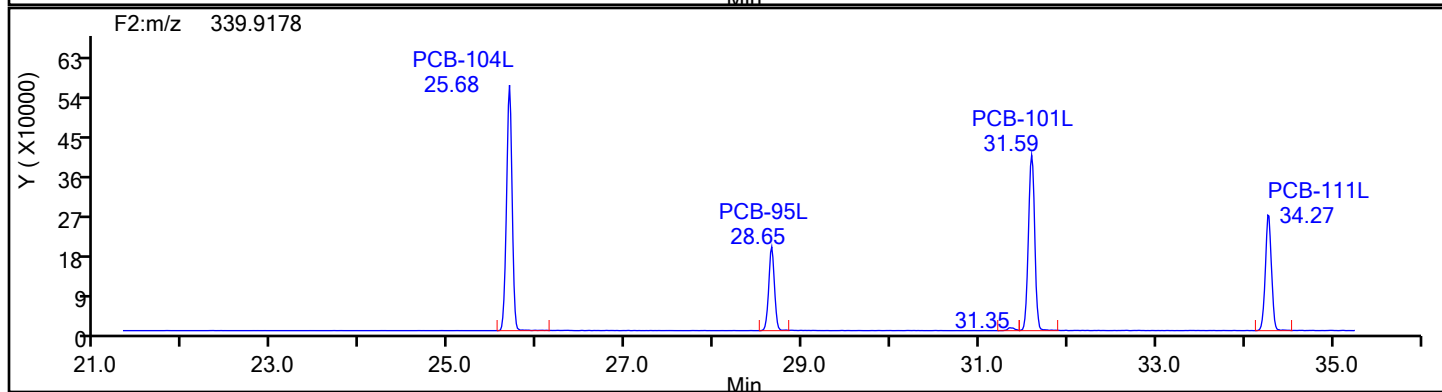
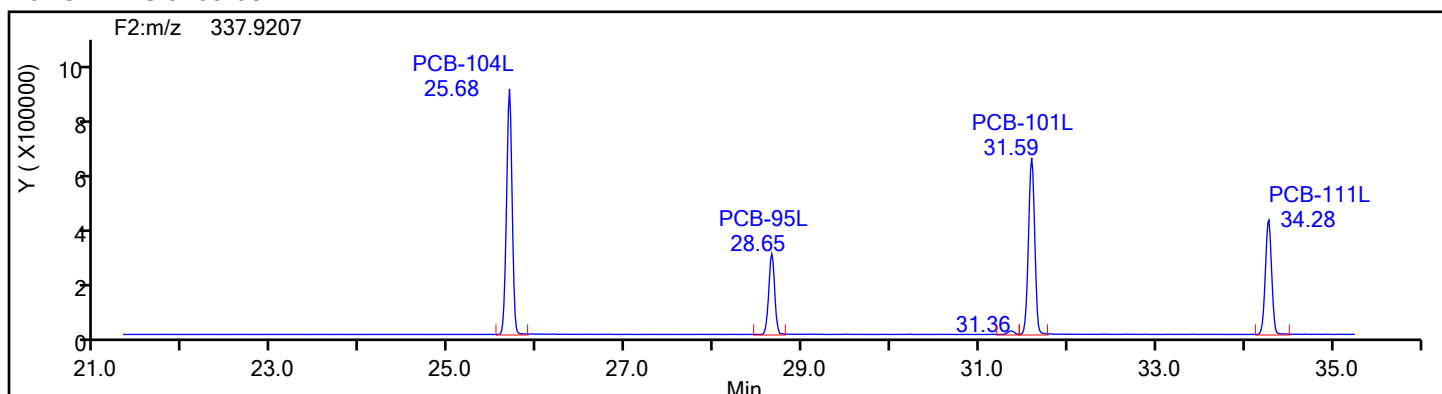
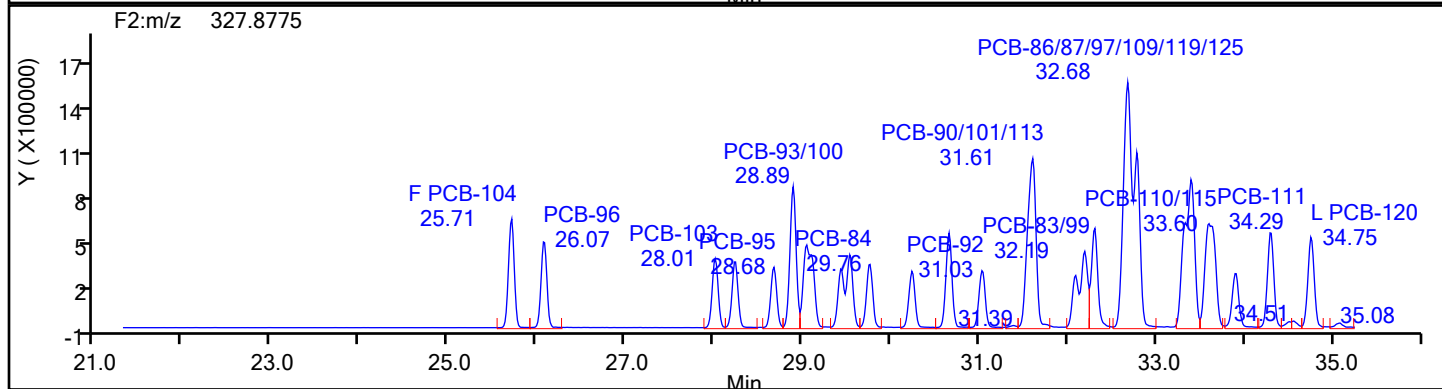
Signal: 1



BASFHWC-Gelsma-2024-3960
9/6/2024
2:43:26 PM

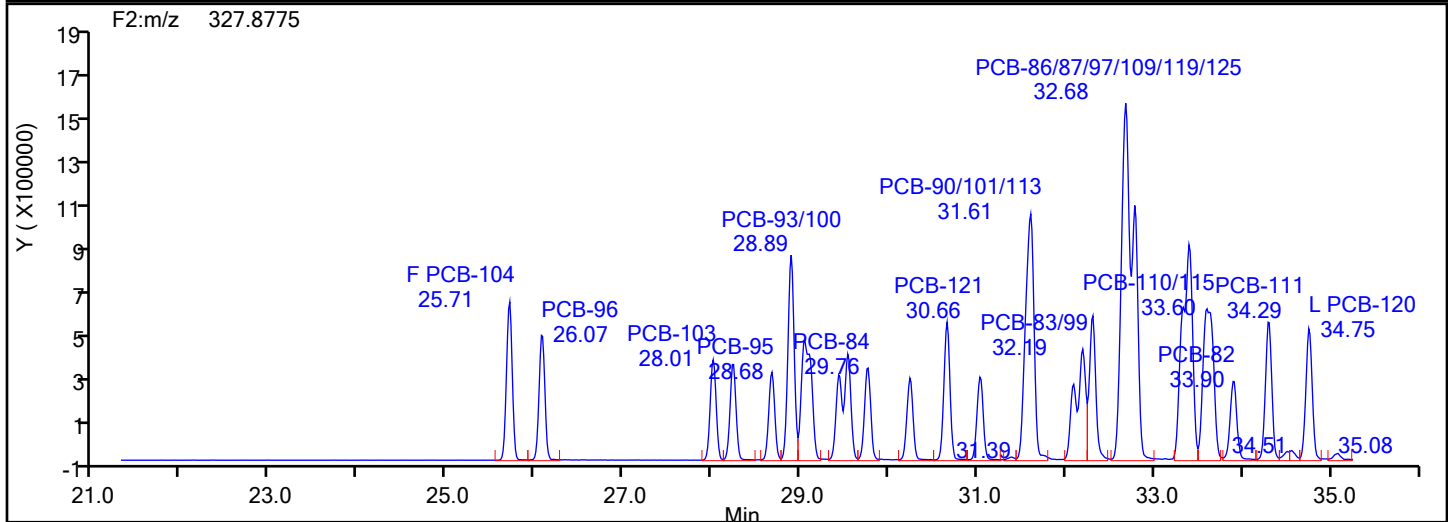
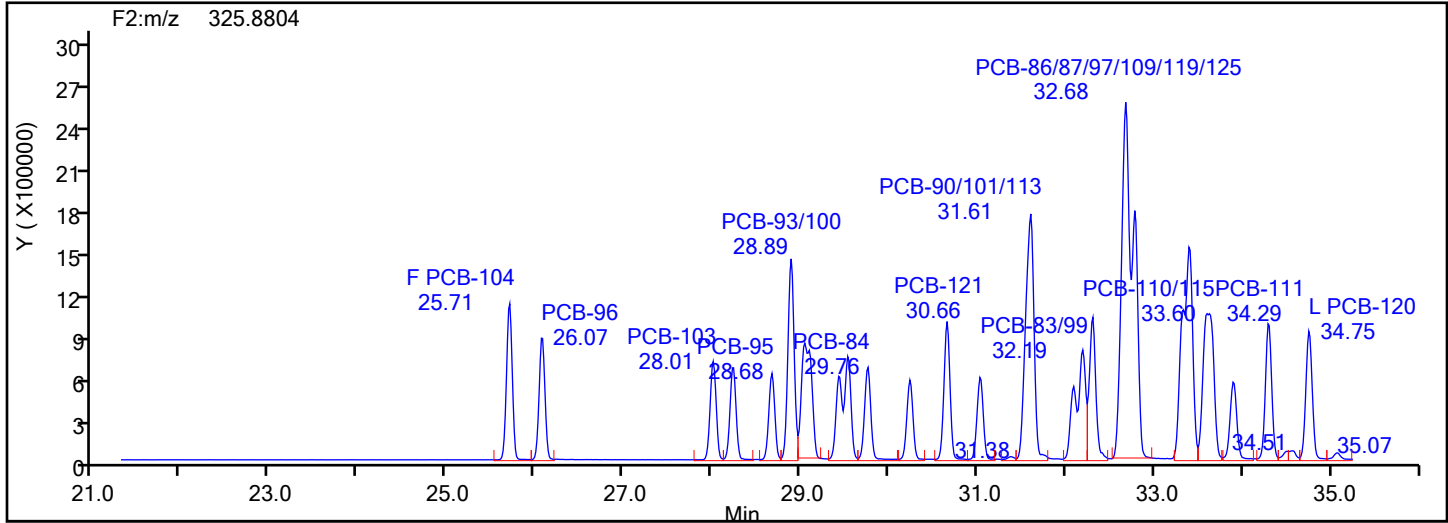
Chrom Revision: 2.3 23-Jun-2024 11:08:02

Column Dia: 0.25 mm

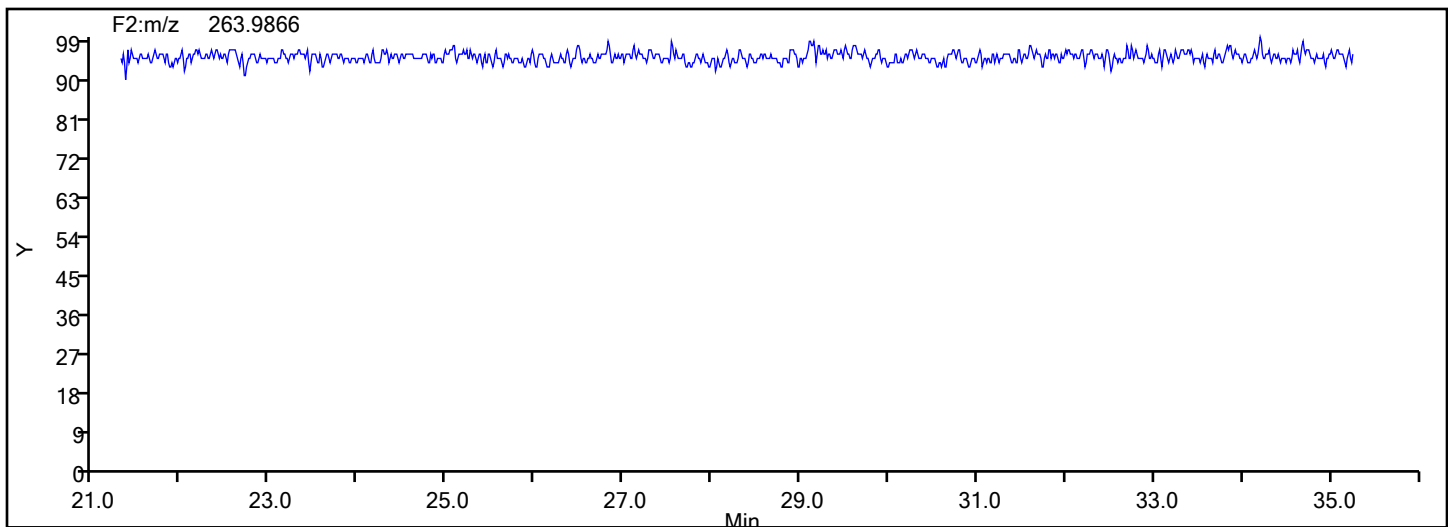


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

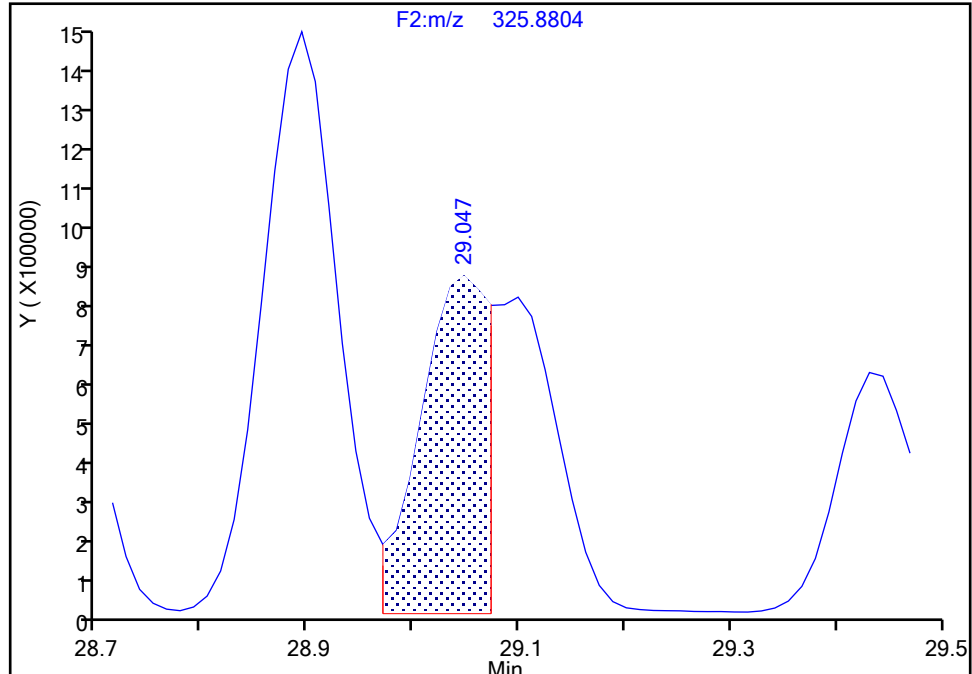
Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 1

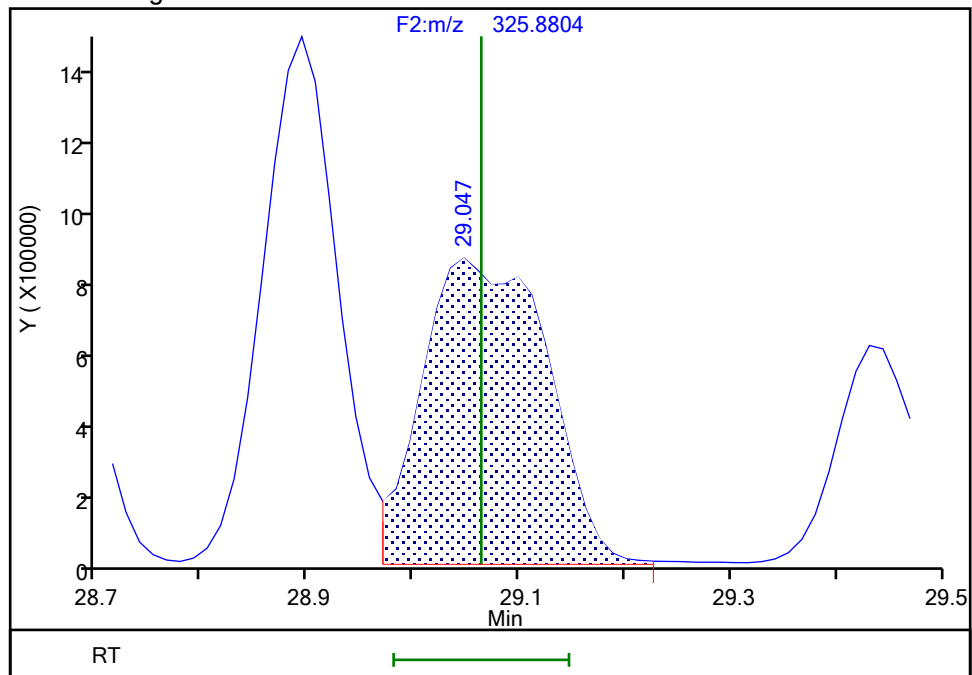
RT: 29.05
Area: 3518179
Amount: 143.9766
Amount Units: pg/ul

Processing Integration Results



RT: 29.05
Area: 6677250
Amount: 206.3385
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:09:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

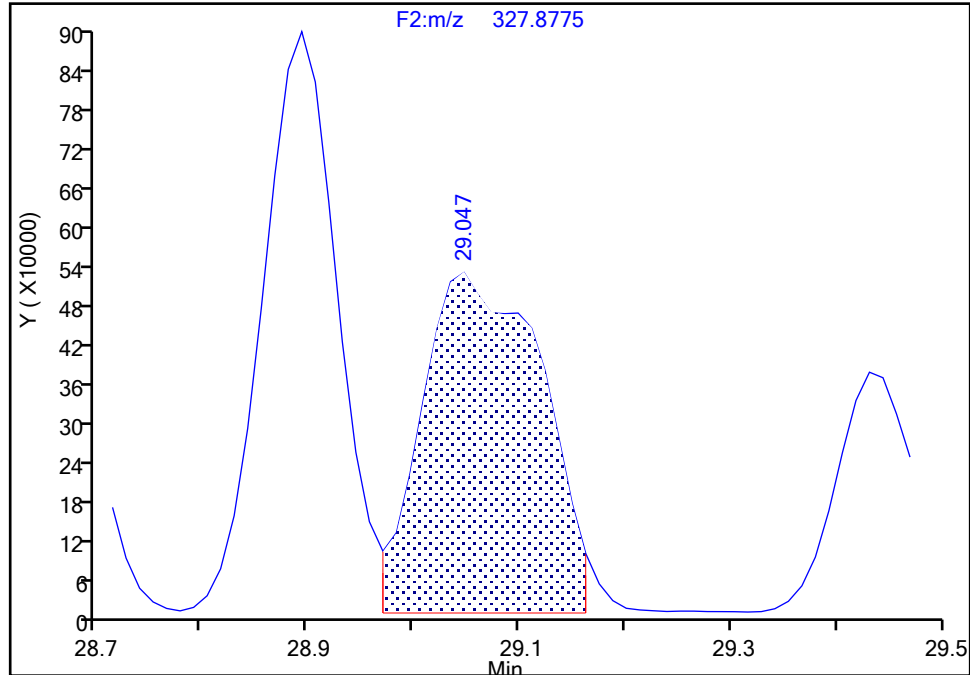
F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 2

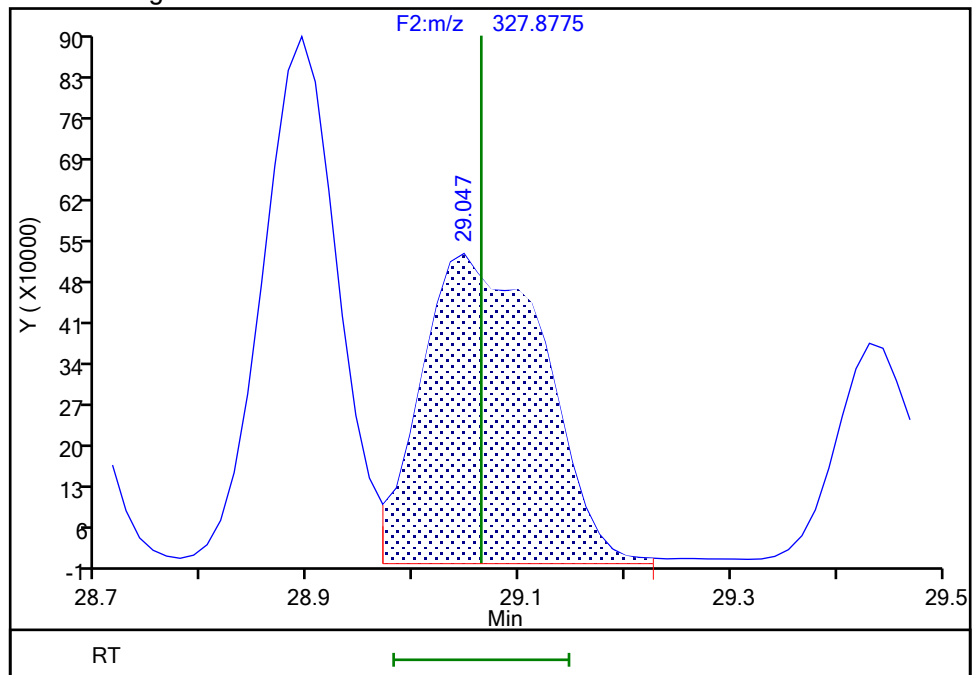
RT: 29.05
Area: 4119534
Amount: 143.9766
Amount Units: pg/ul

Processing Integration Results



RT: 29.05
Area: 4268659
Amount: 206.3385
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:09:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

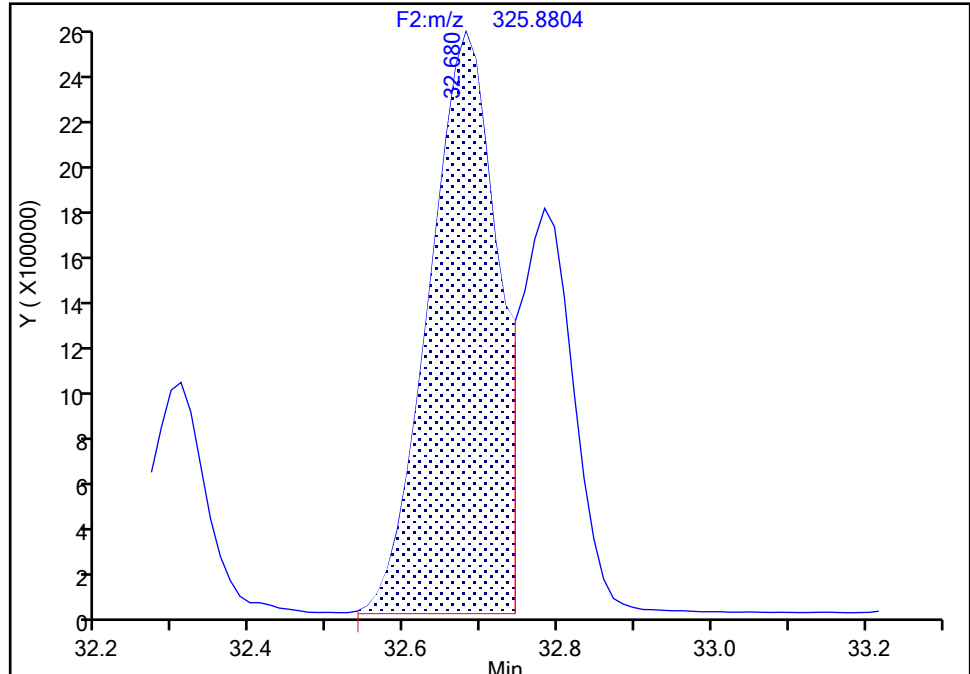
F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

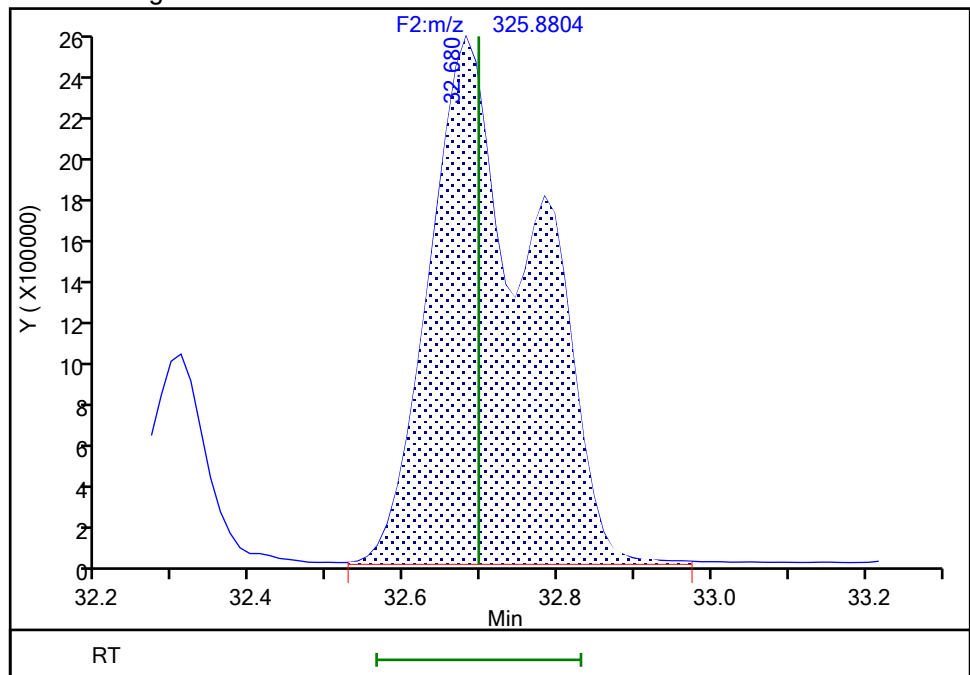
RT: 32.68
Area: 15425847
Amount: 374.4641
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 23519251
Amount: 573.6652
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:09:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

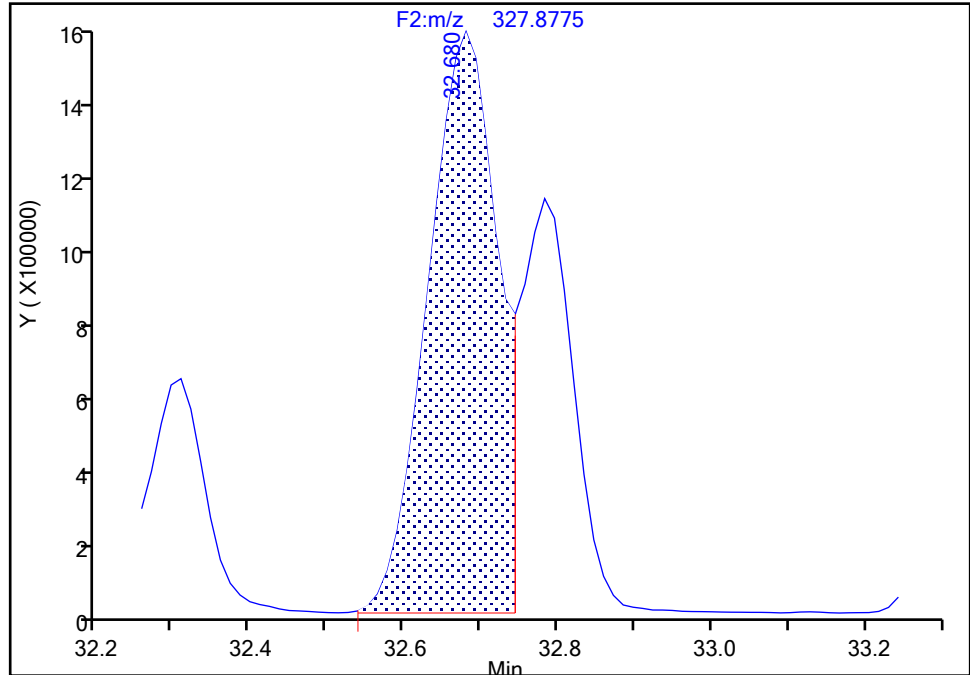
F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

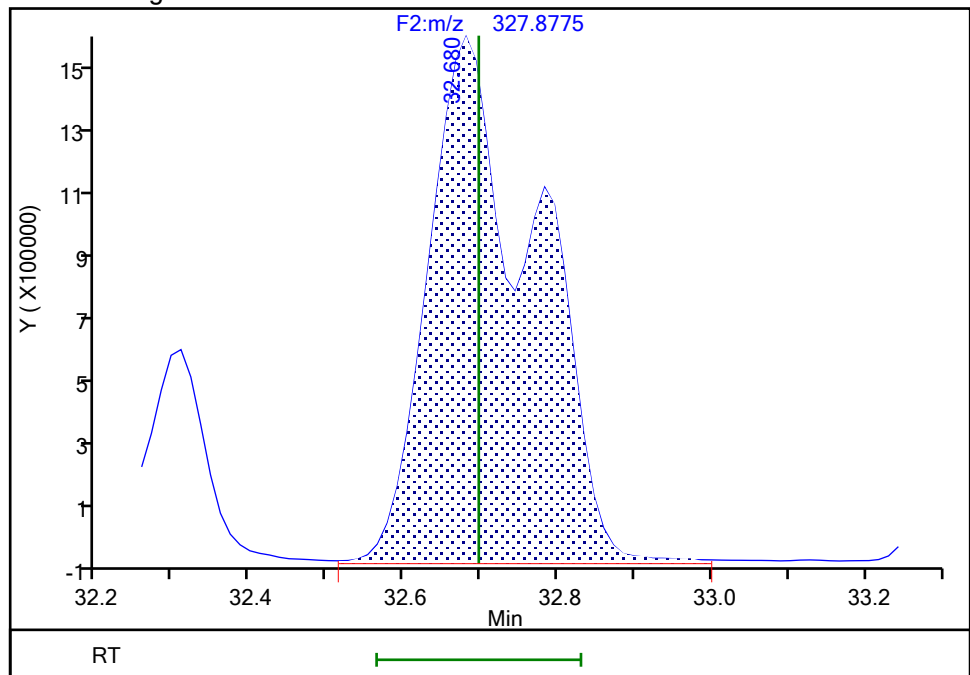
RT: 32.68
Area: 9755487
Amount: 374.4641
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 15057631
Amount: 573.6652
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:09:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

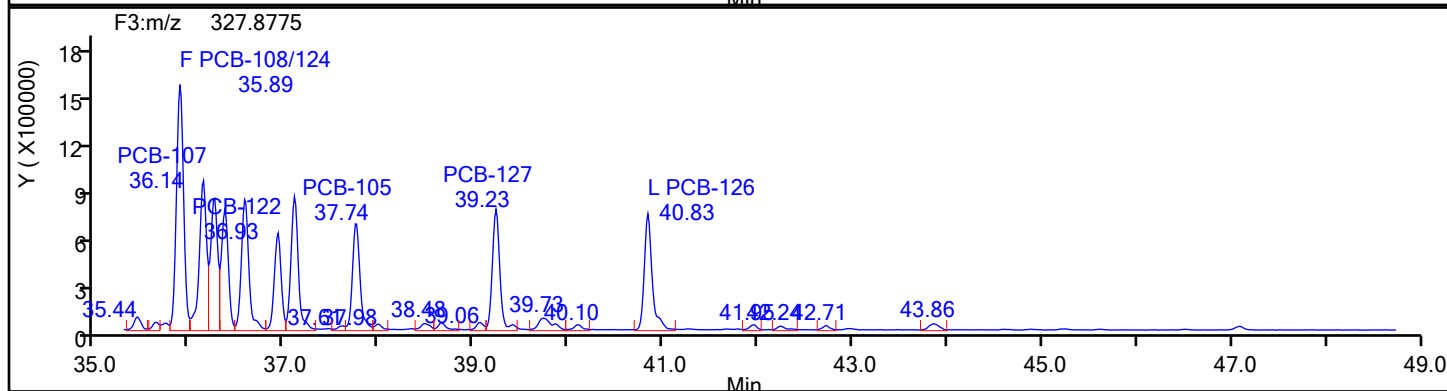
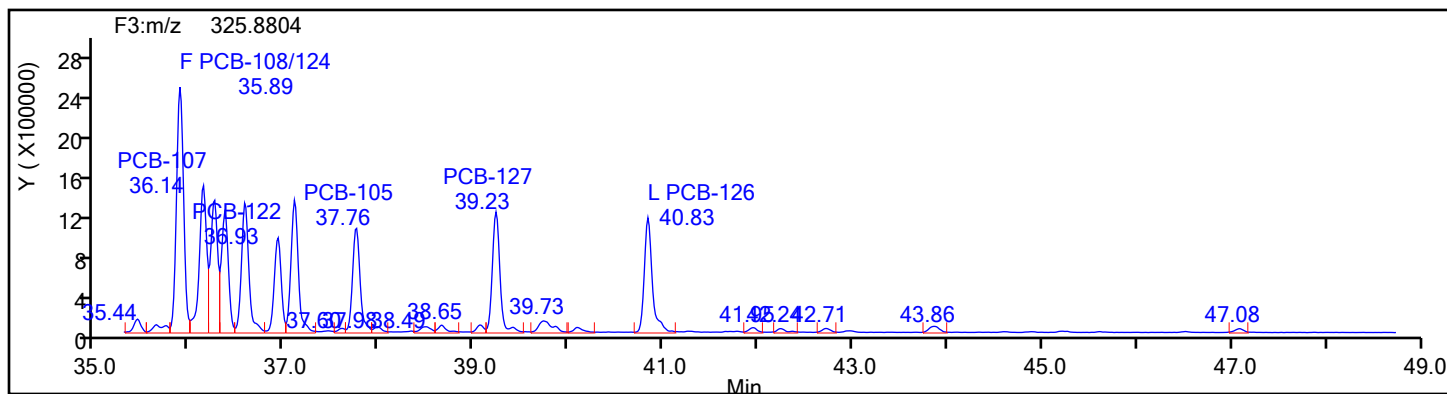
Worklist#: 87130

Sample Line#: 7

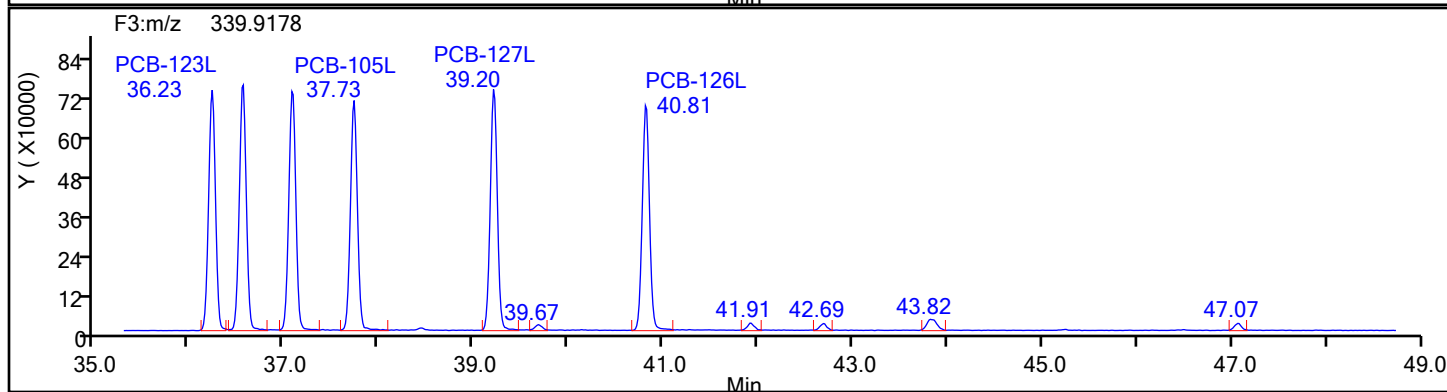
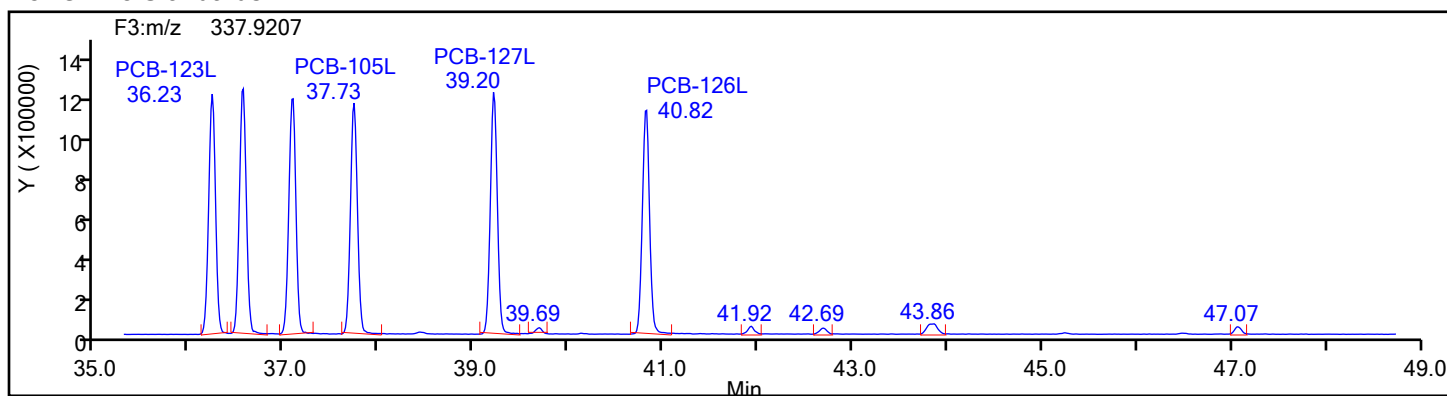
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

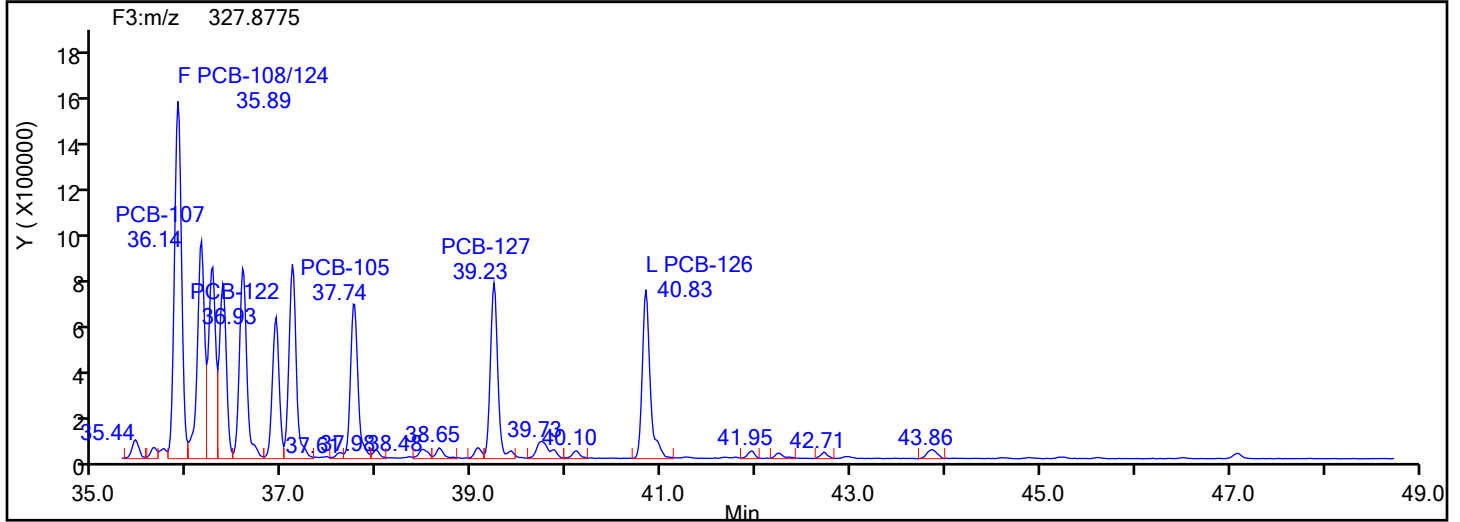
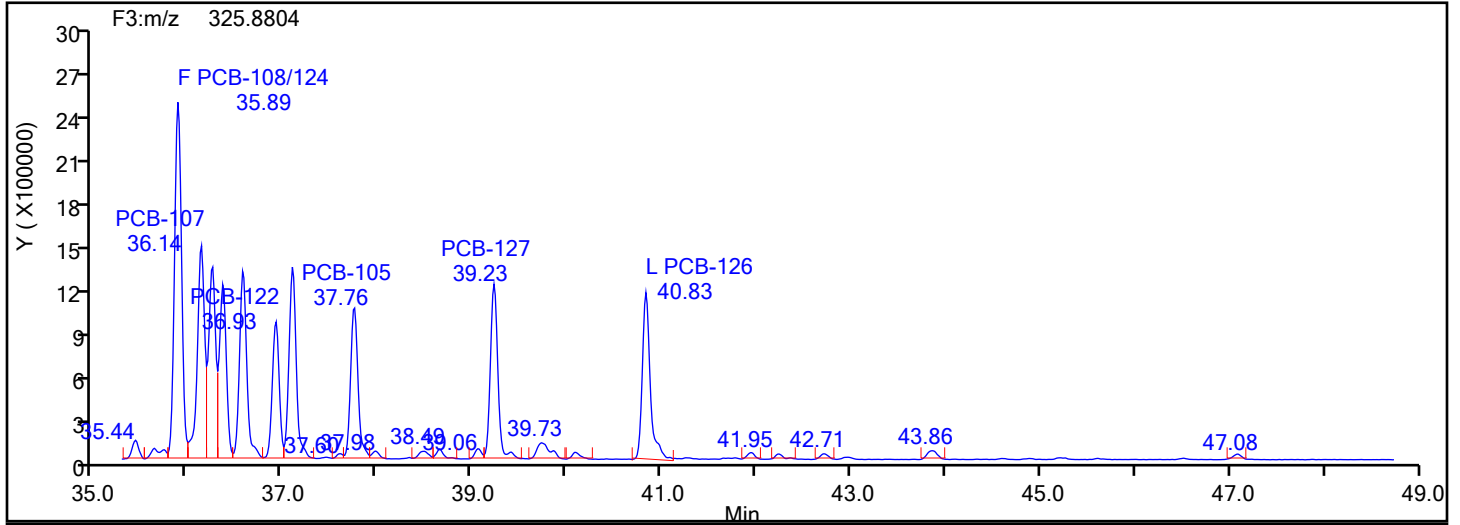
Worklist#: 87130

Sample Line#: 7

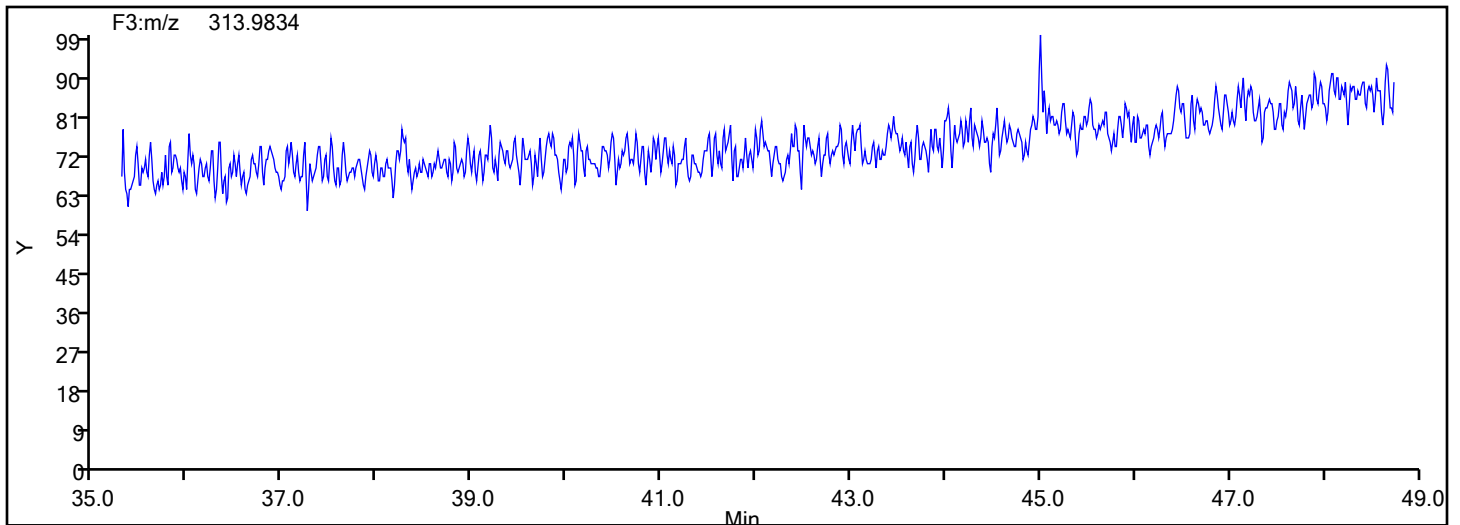
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

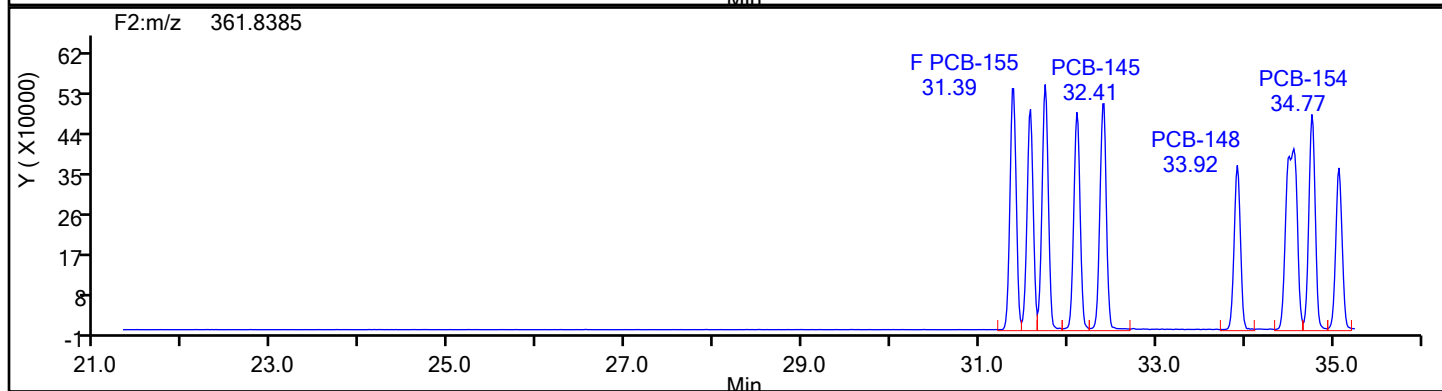
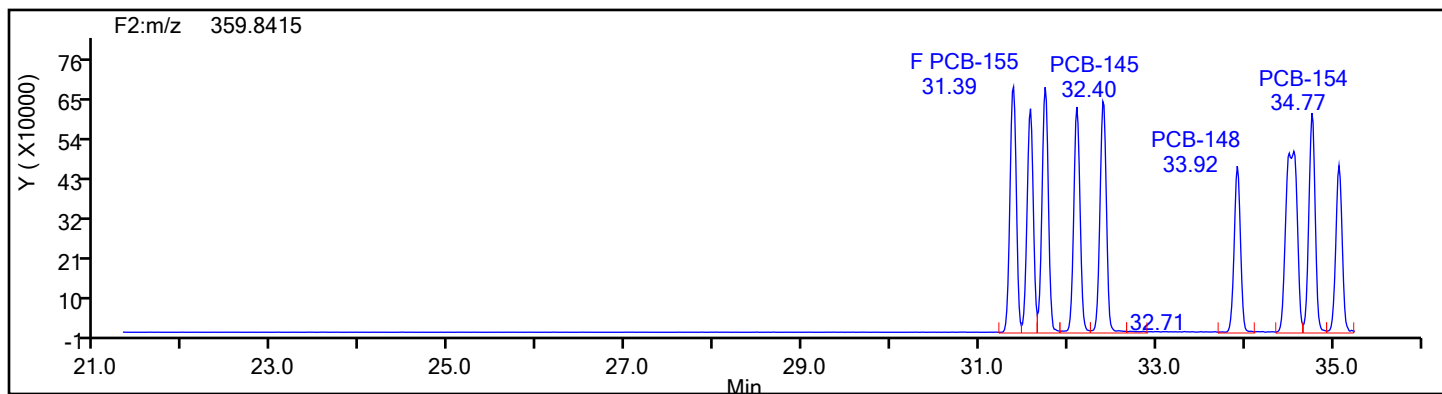
Worklist#: 87130

Sample Line#: 7

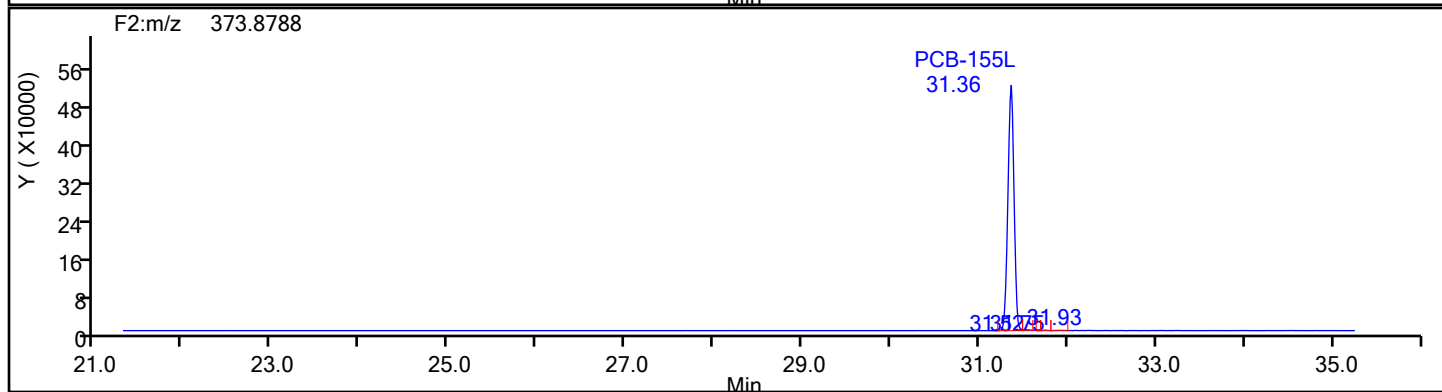
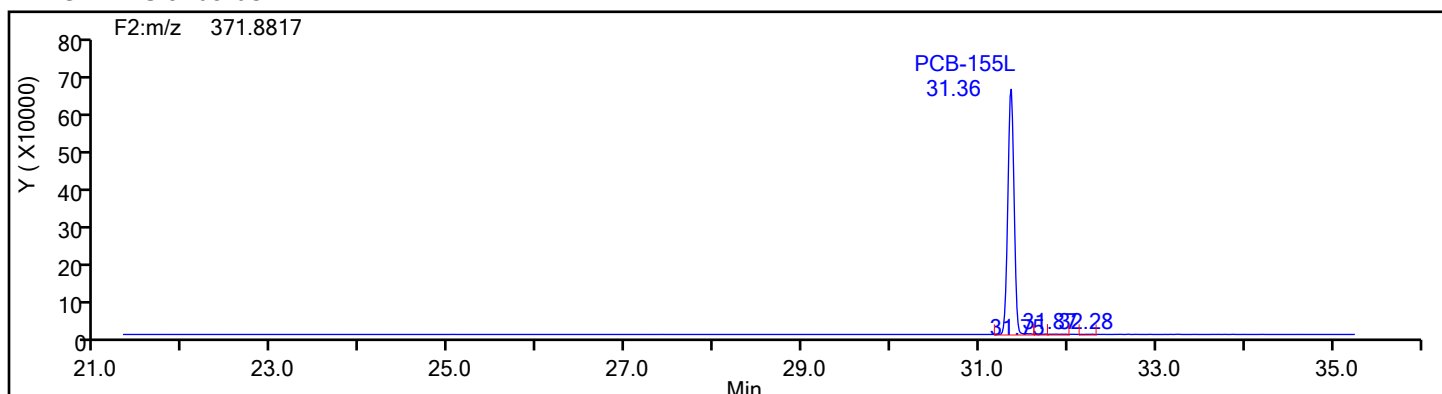
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

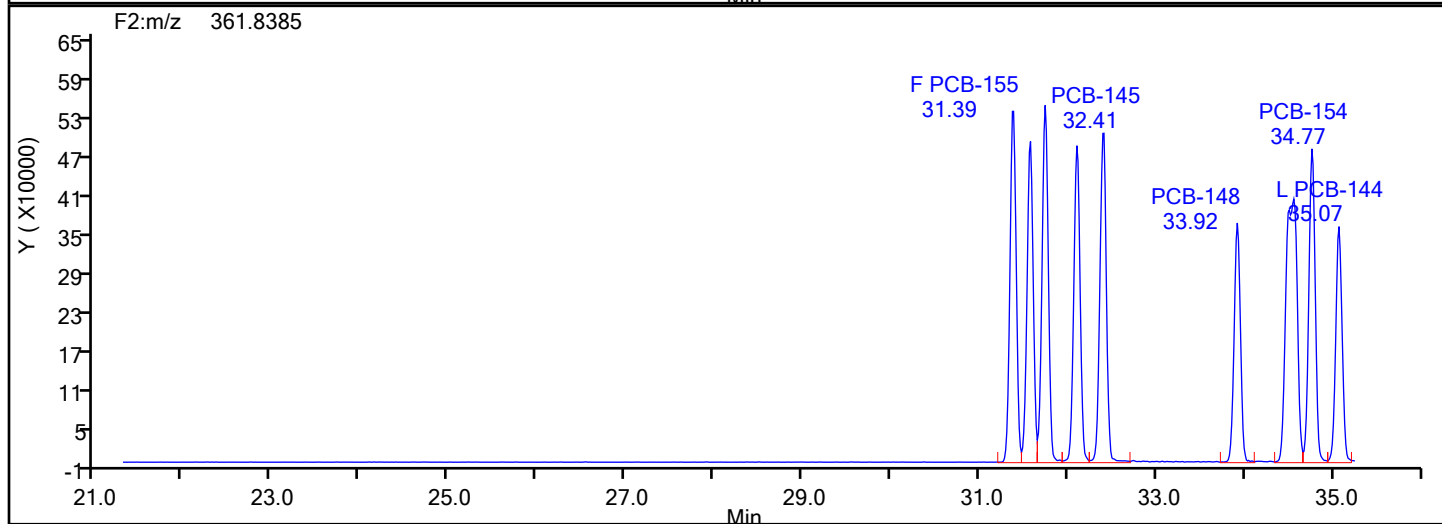
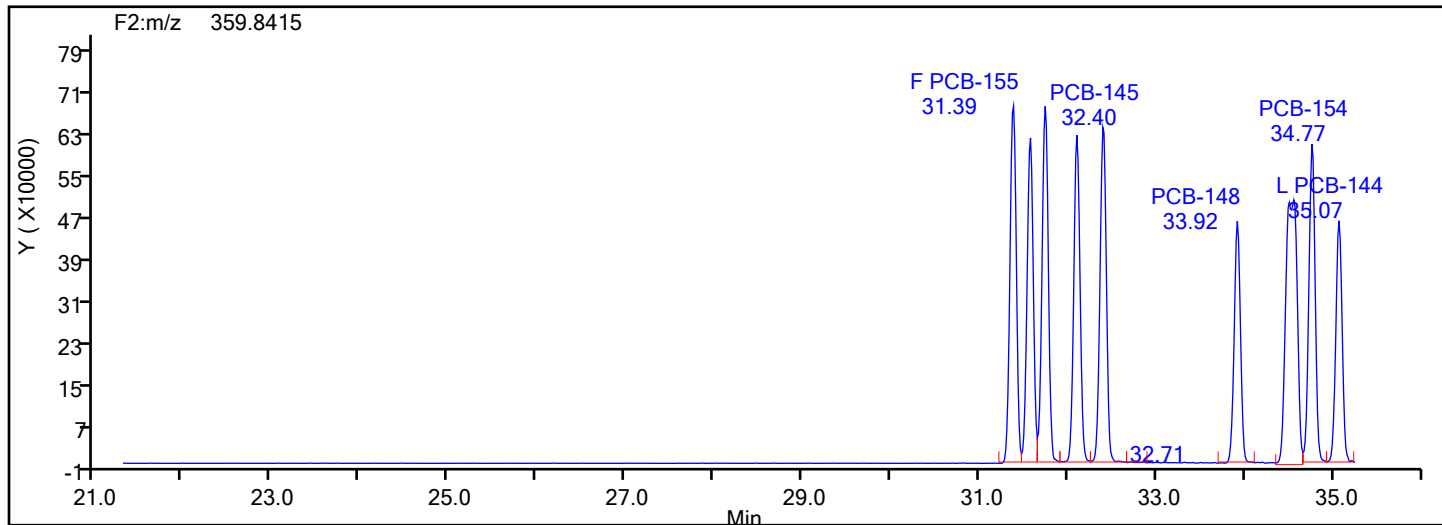


HxPCB F2 Standards

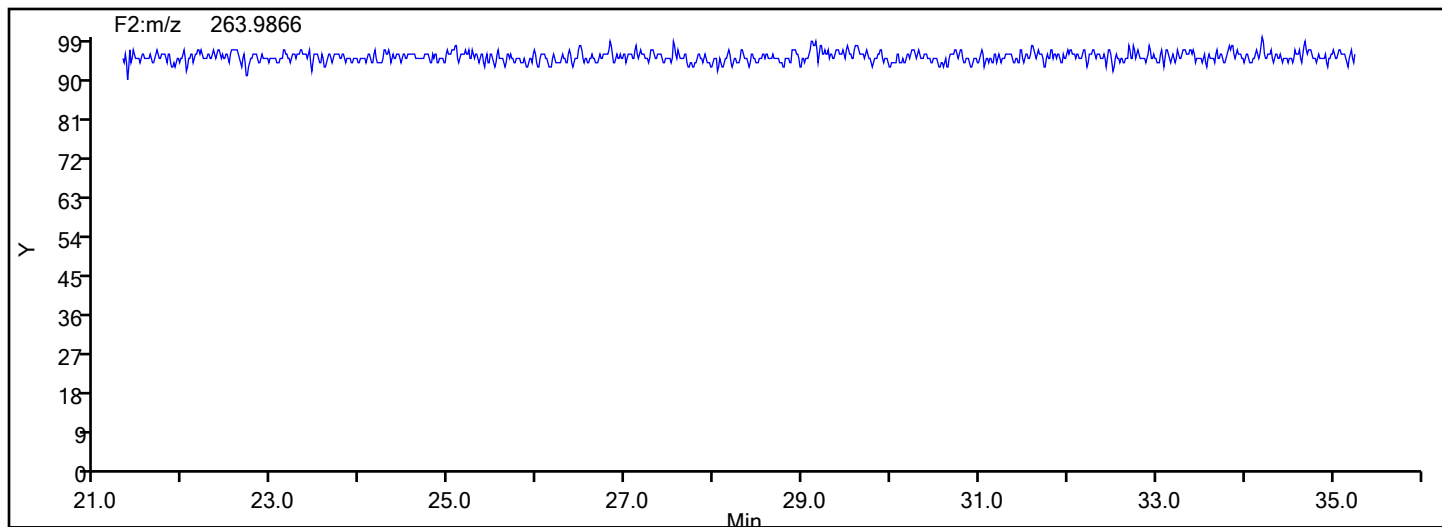


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

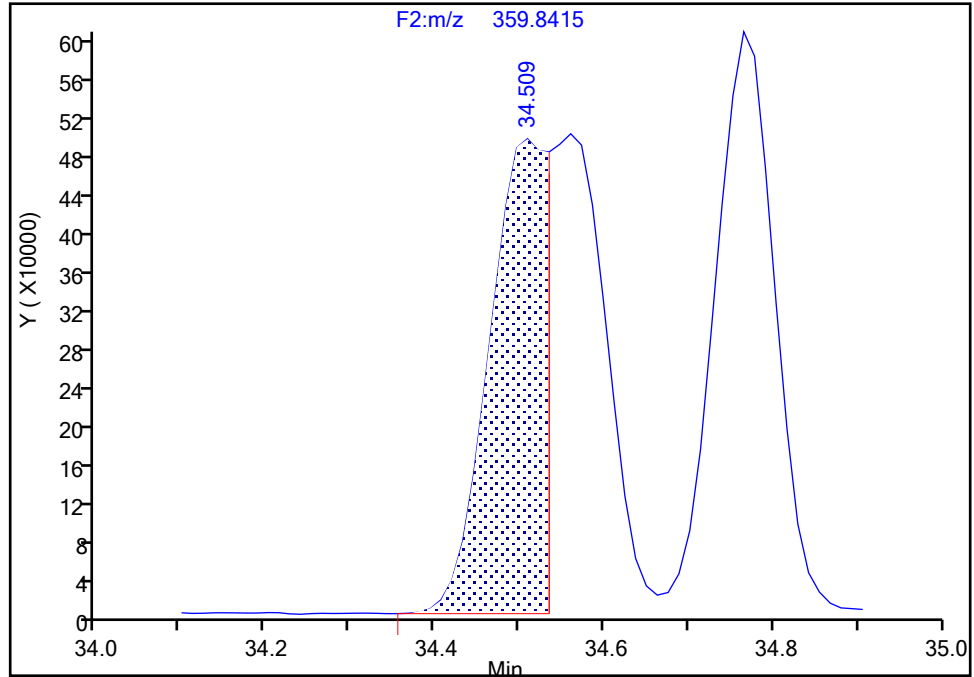
Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

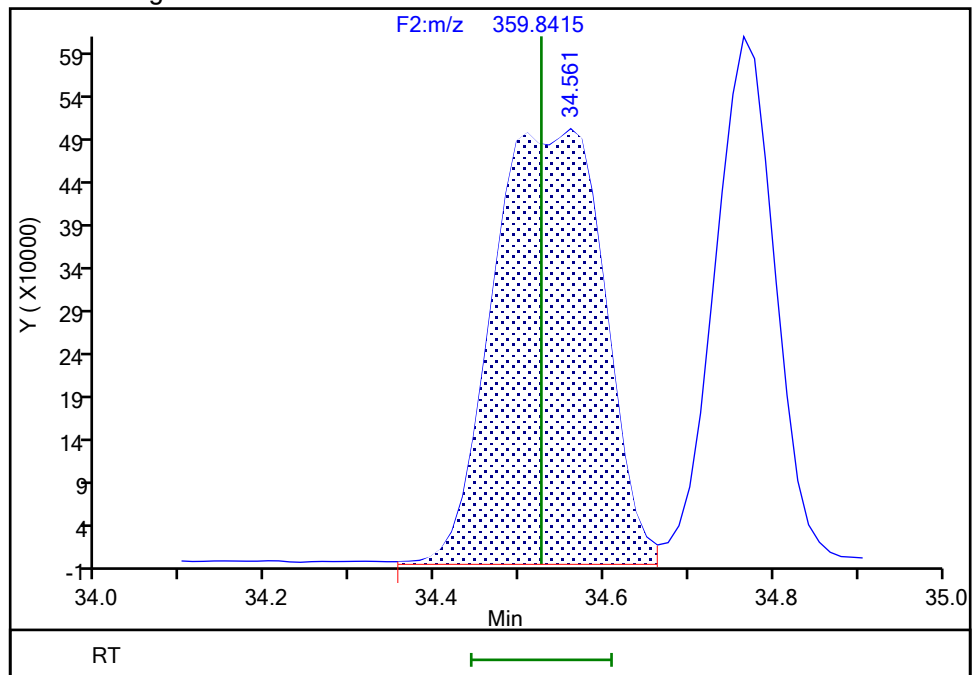
RT: 34.51
Area: 2291087
Amount: 91.434676
Amount Units: pg/ul

Processing Integration Results



RT: 34.56
Area: 4550681
Amount: 196.2216
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:10:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

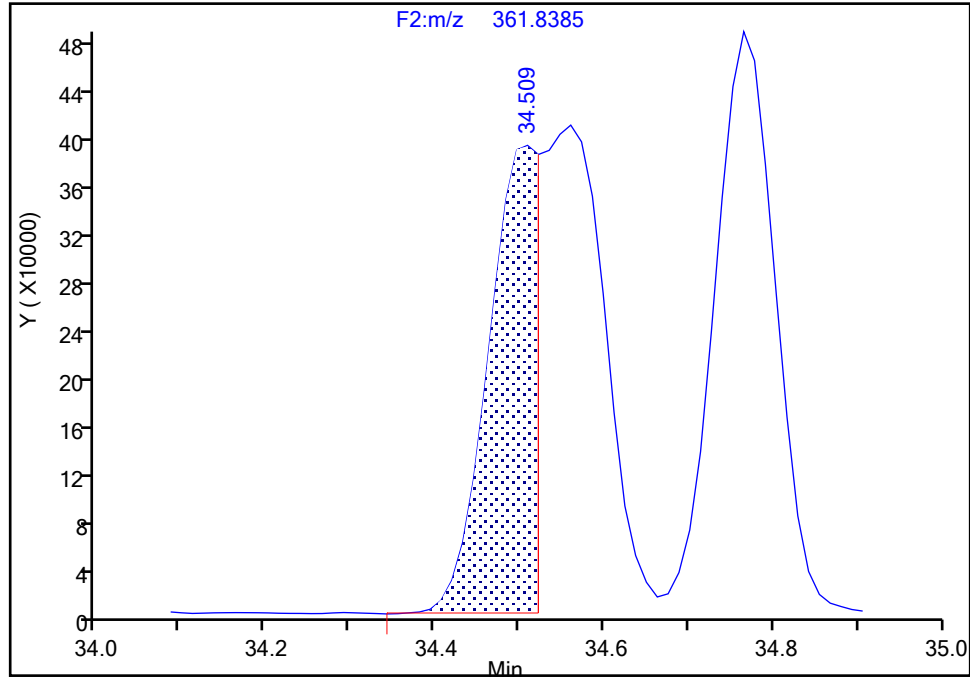
F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

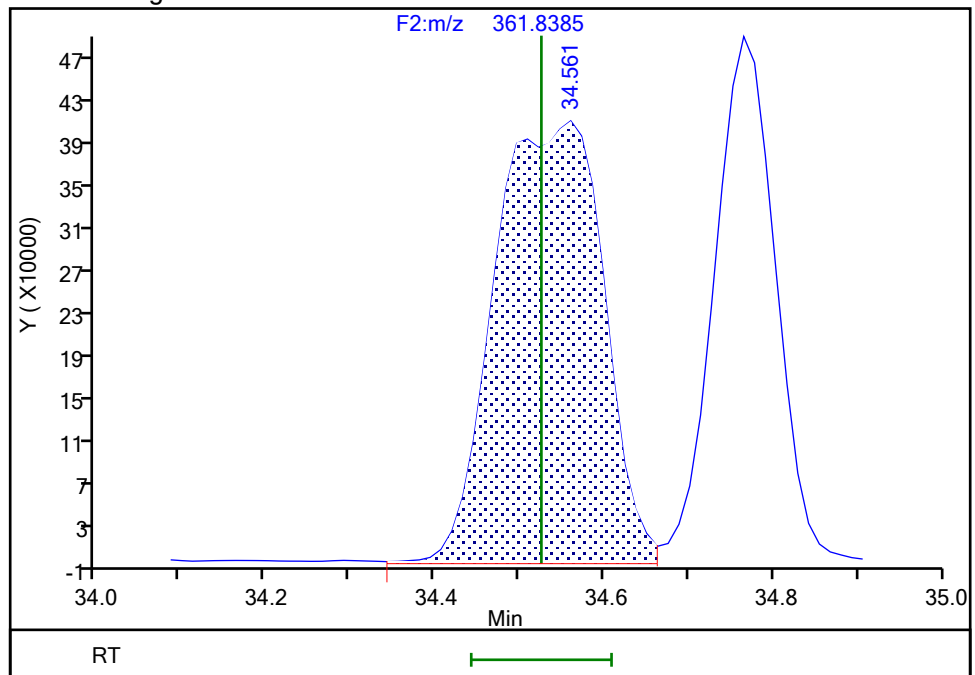
RT: 34.51
Area: 1513215
Amount: 91.434676
Amount Units: pg/ul

Processing Integration Results



RT: 34.56
Area: 3613466
Amount: 196.2216
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:10:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Chrom Revision: 2.3 23-Jun-2024 11:08:02

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Vol: 1.0 ul

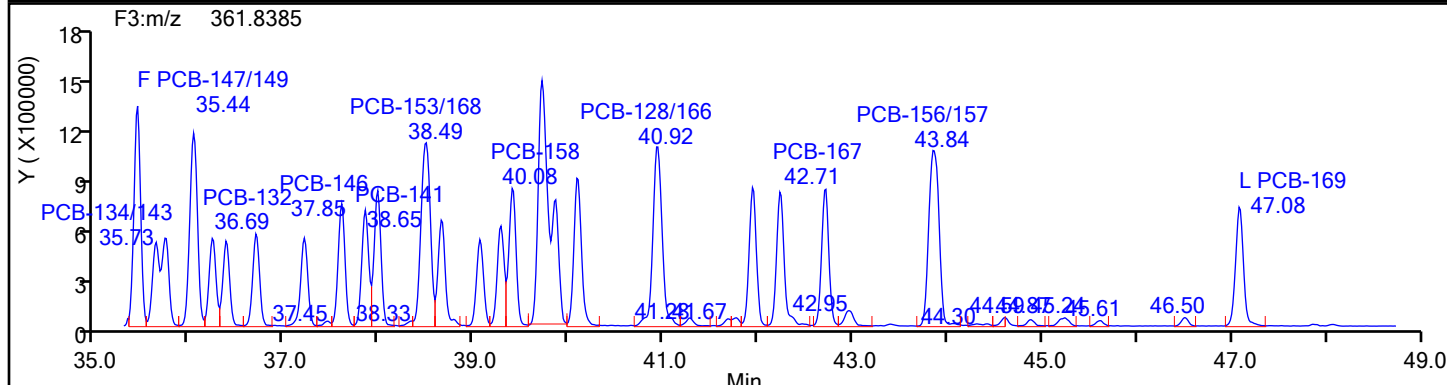
Operator ID: Xcalibur_System

Limit Group: HR - EPA_23 PCB ICAL

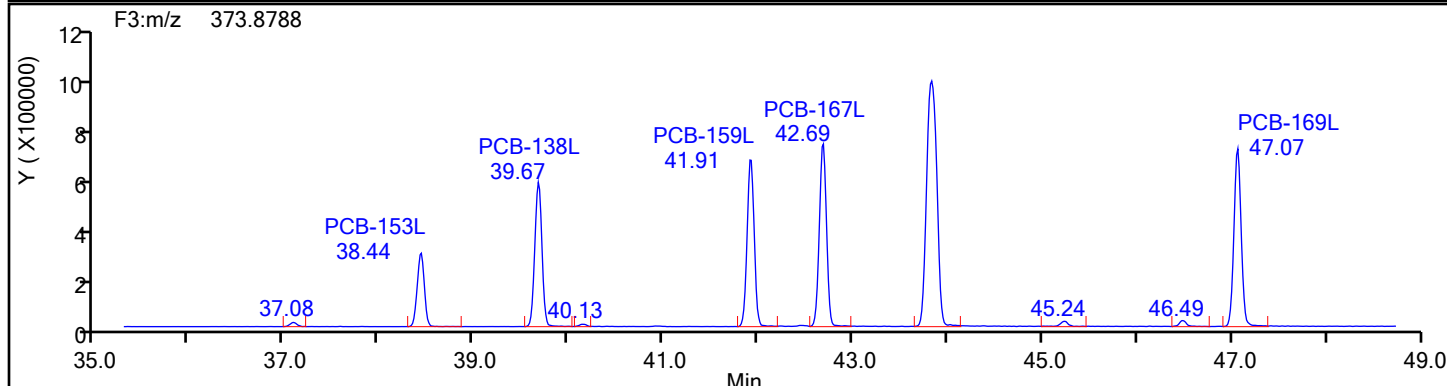
Sample Line#: 7

Column Dia: 0.25 mm

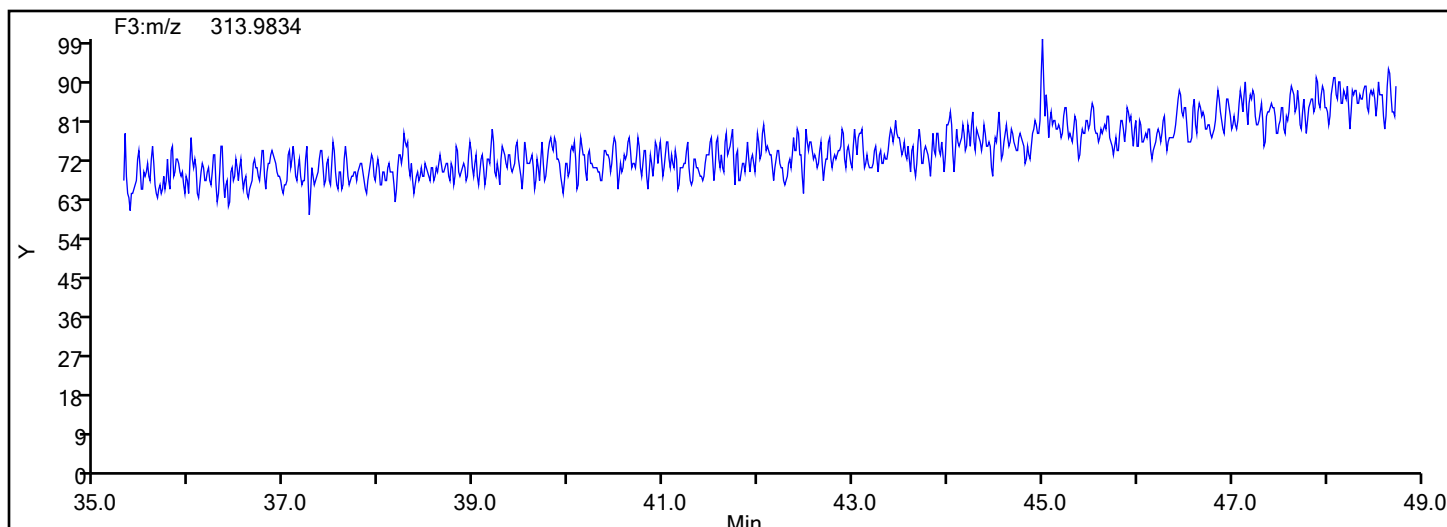
HxPCB F3



HxCPCB F3 Standards



HxPCB F3



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

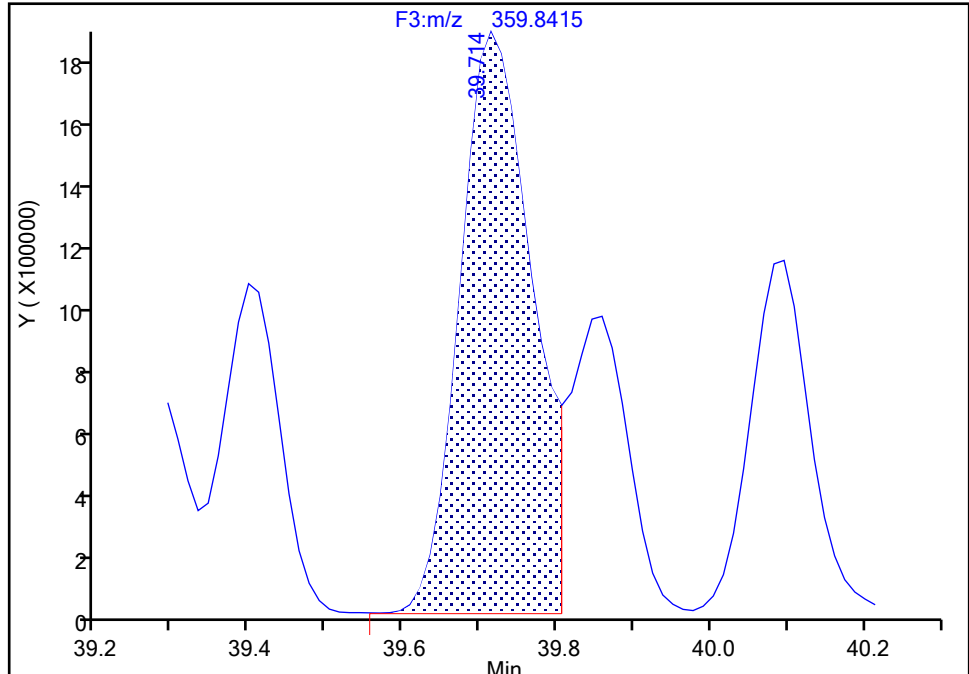
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

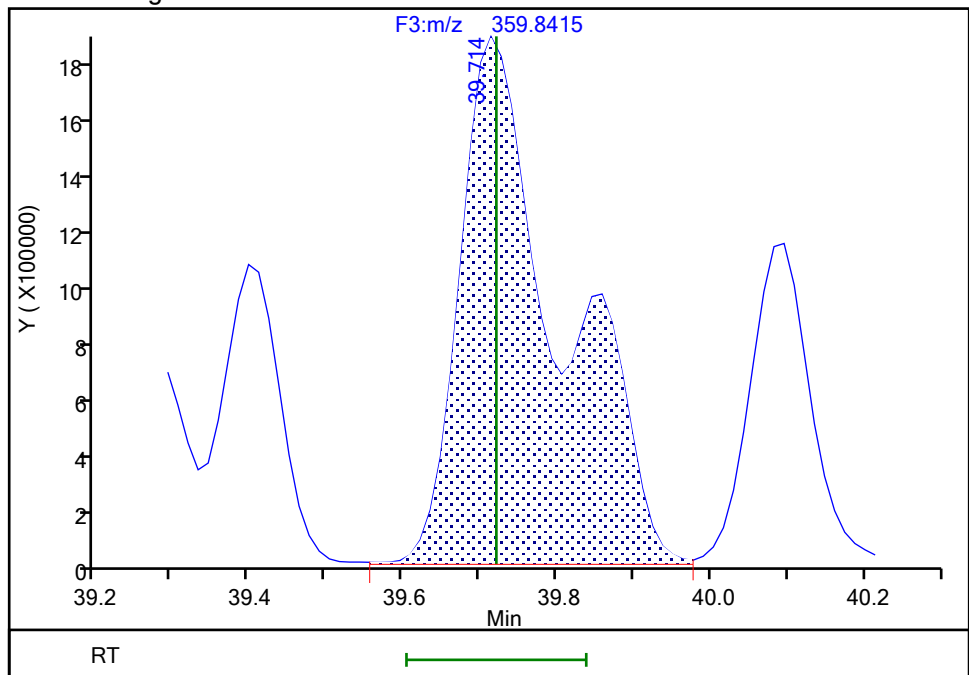
RT: 39.71
Area: 12104636
Amount: 281.2795
Amount Units: pg/ul

Processing Integration Results



RT: 39.71
Area: 17023216
Amount: 394.5828
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:10:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

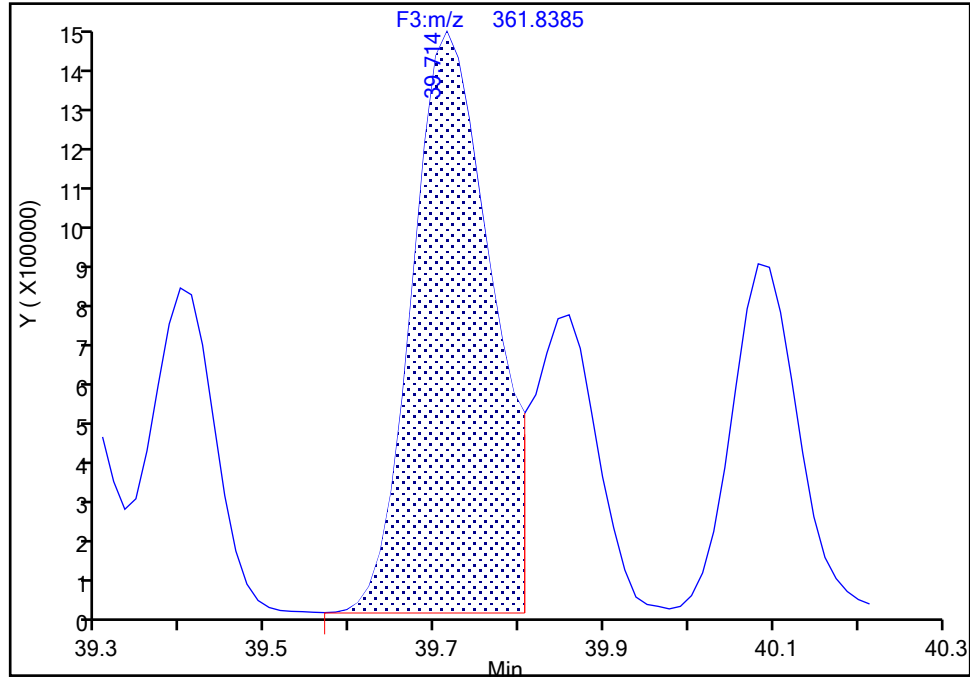
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Instrument ID: D2D
Lims ID: ICV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

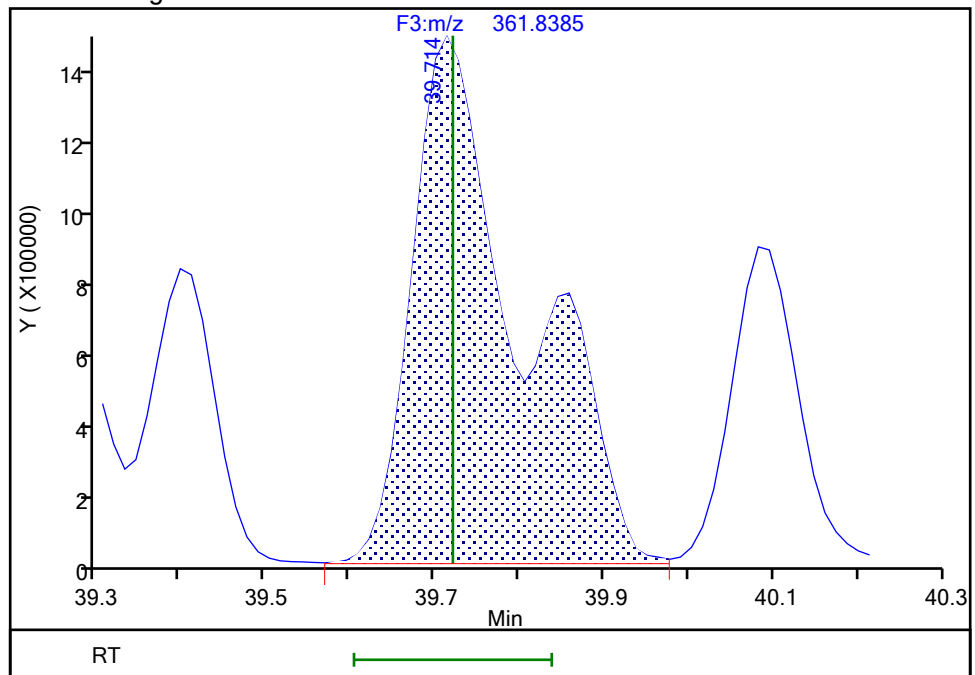
RT: 39.71
Area: 9688953
Amount: 281.2795
Amount Units: pg/ul

Processing Integration Results



RT: 39.71
Area: 13549137
Amount: 394.5828
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:11:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

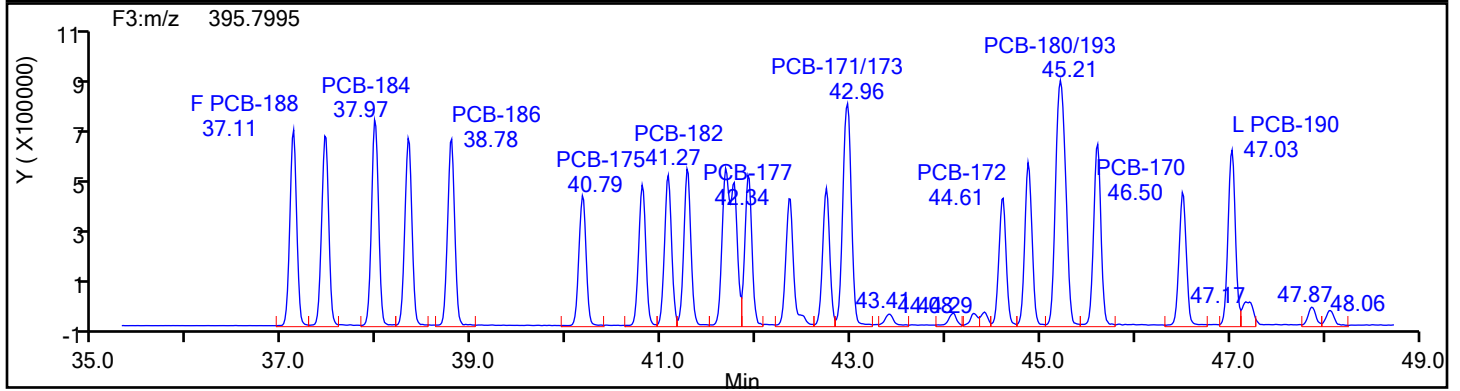
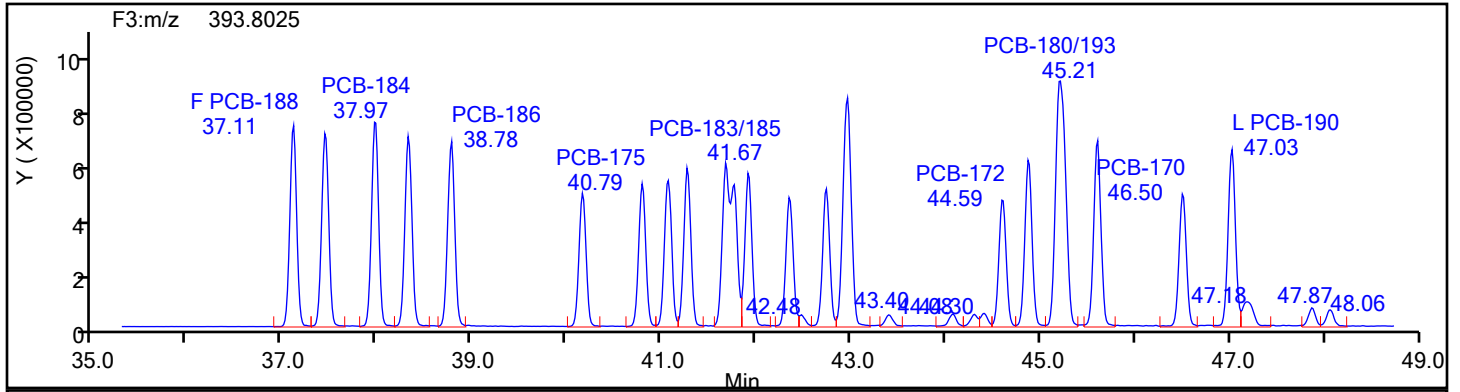
Worklist#: 87130

Sample Line#: 7

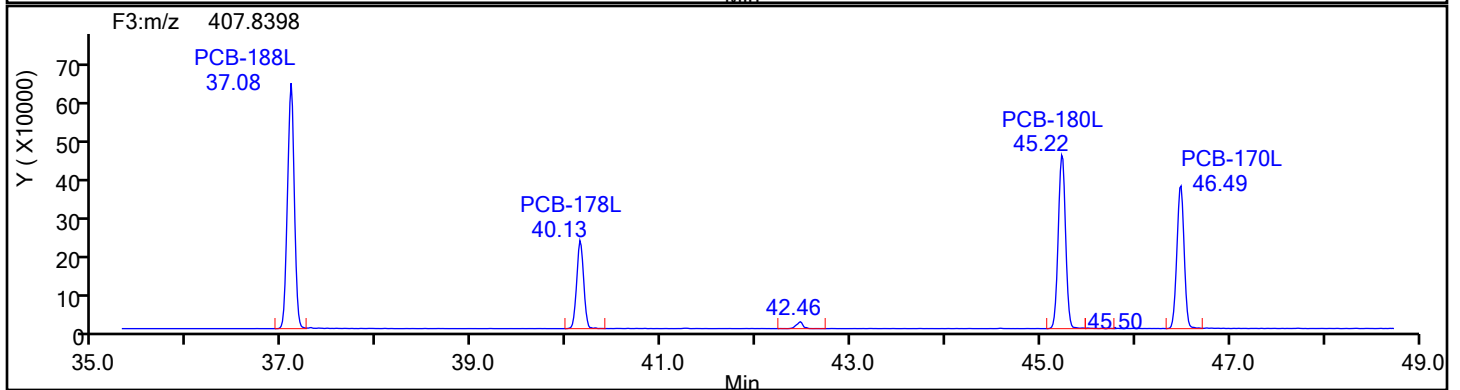
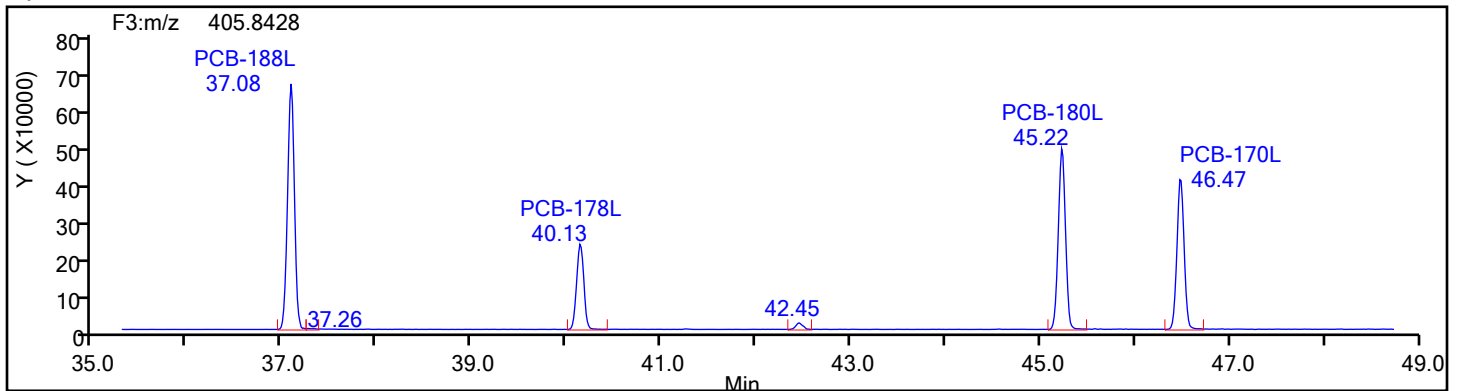
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

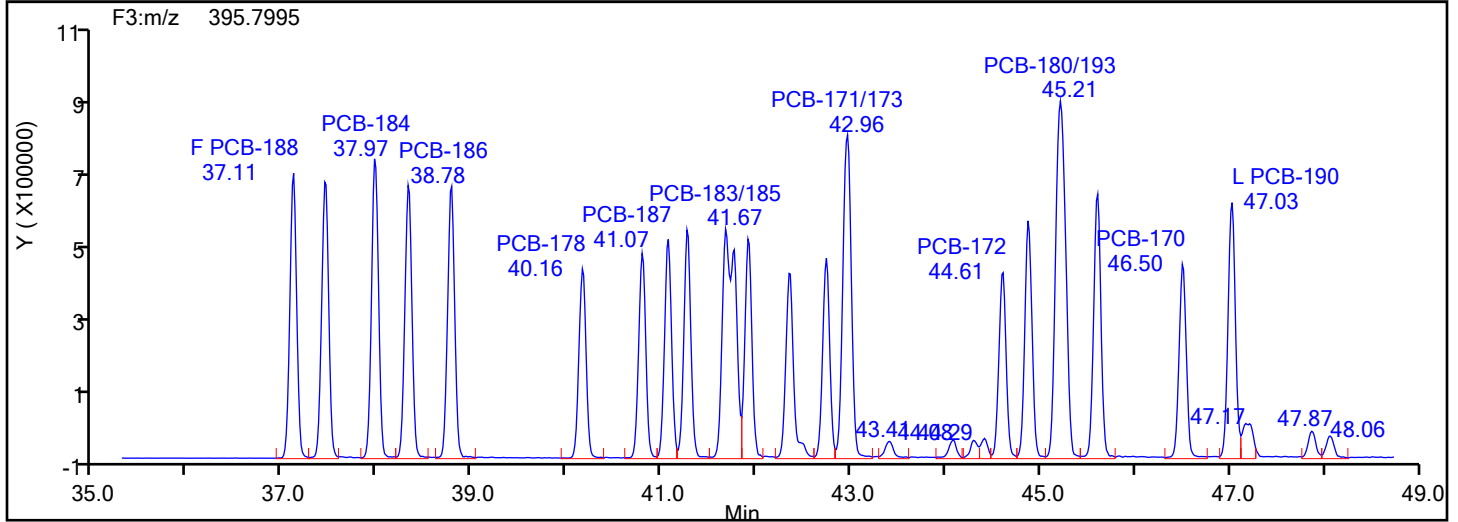
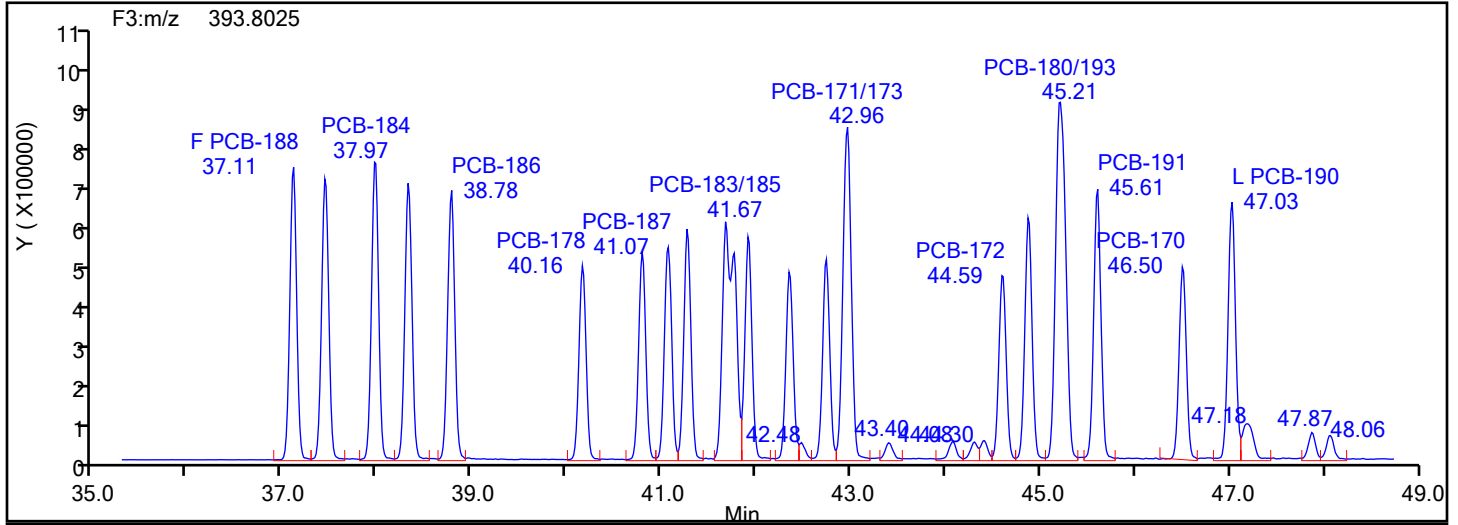
Worklist#: 87130

Sample Line#: 7

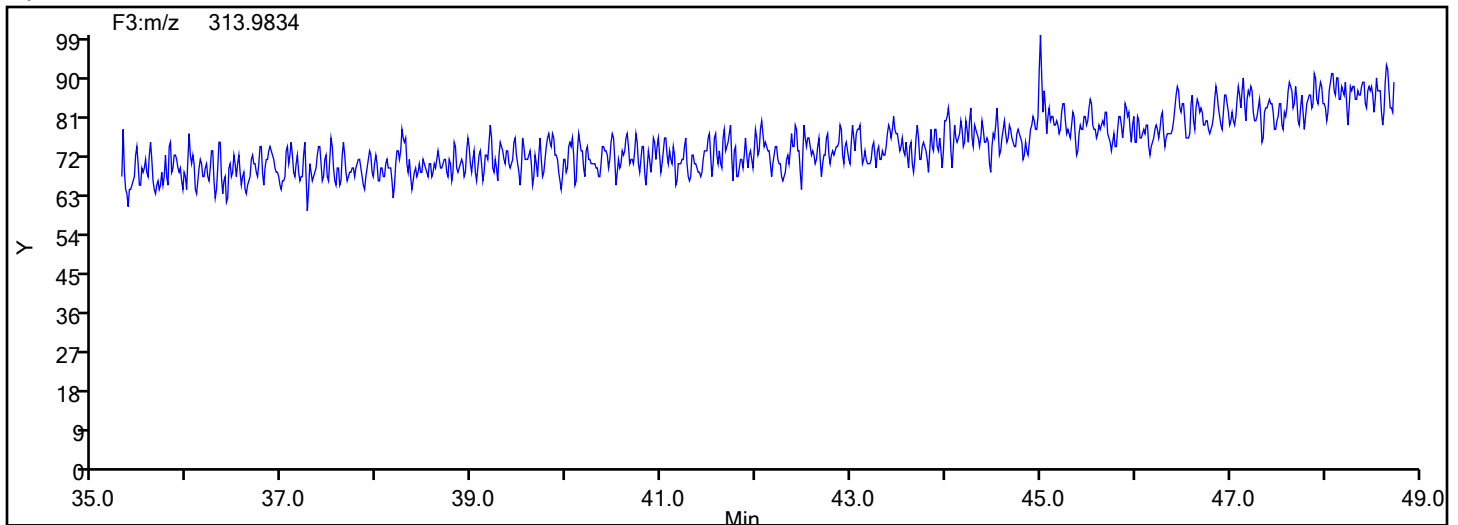
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

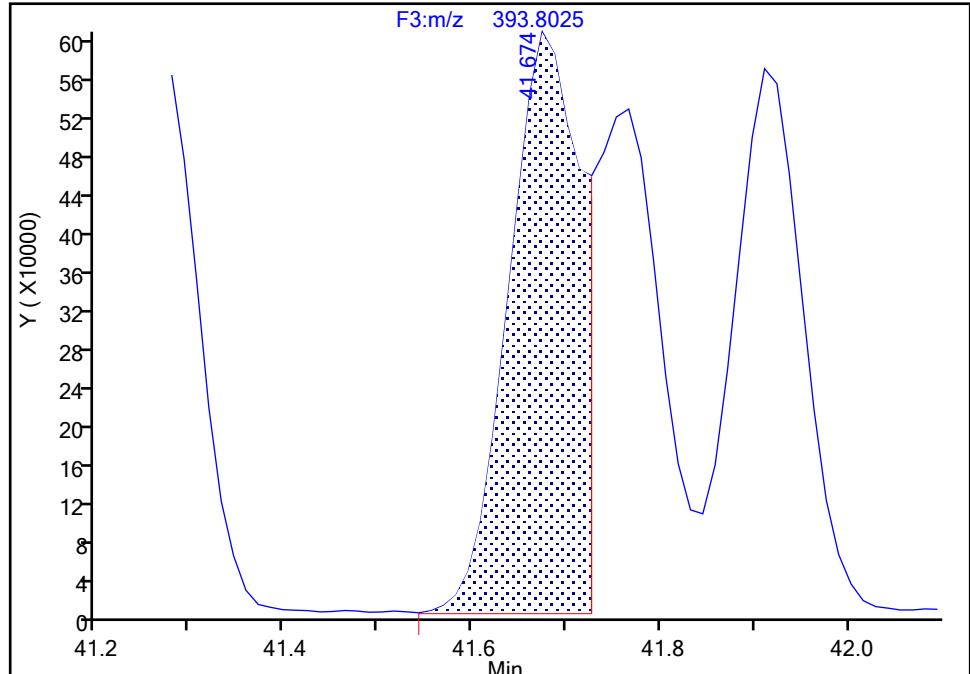
F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

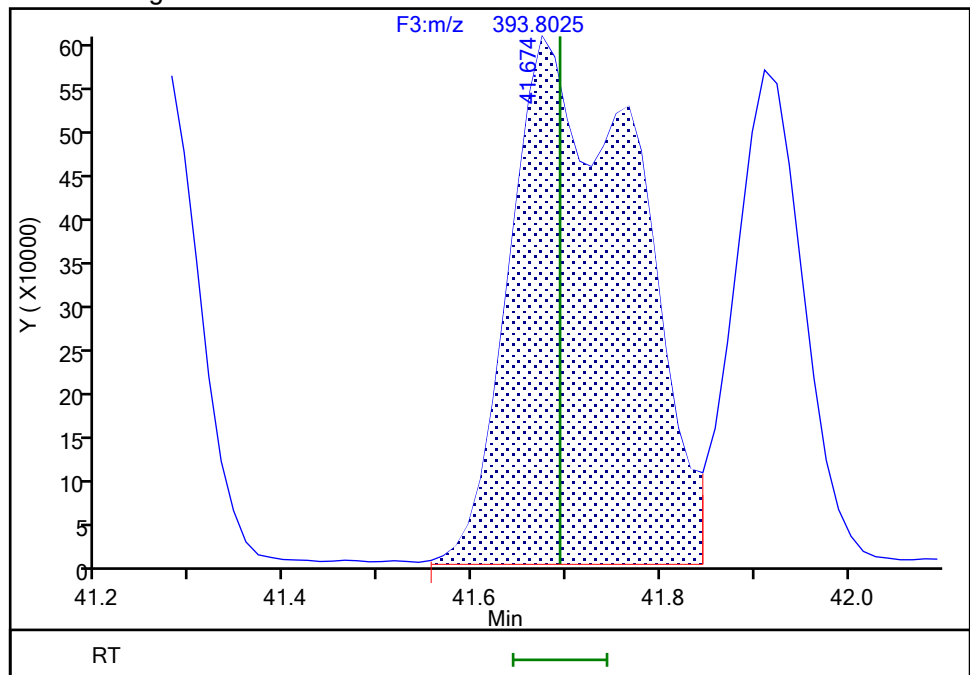
RT: 41.67
Area: 3179859
Amount: 117.0323
Amount Units: pg/ul

Processing Integration Results



RT: 41.67
Area: 5668555
Amount: 209.7534
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:11:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

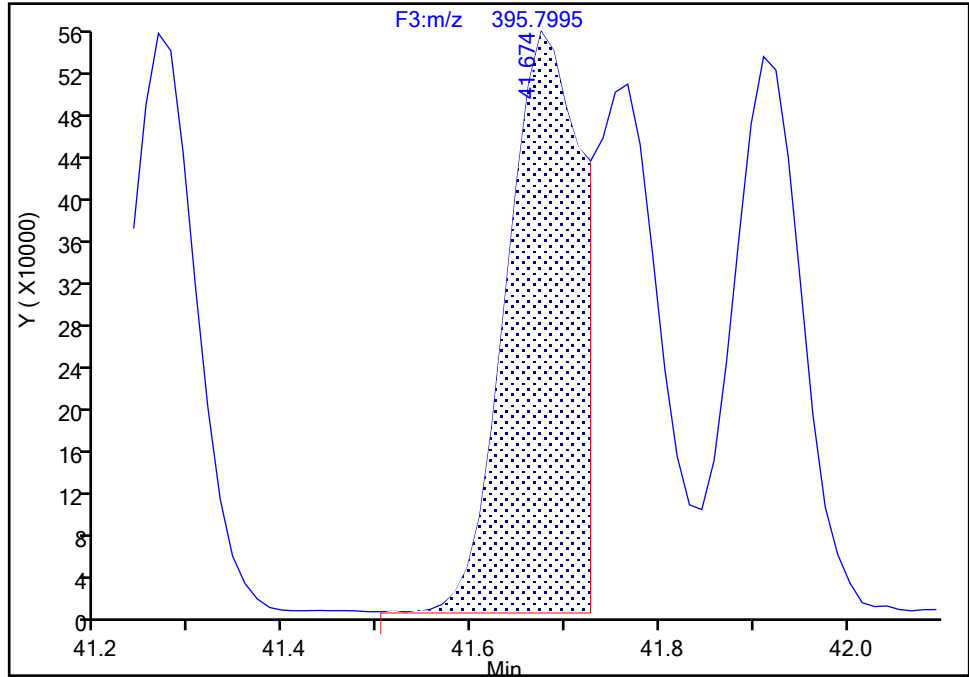
Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

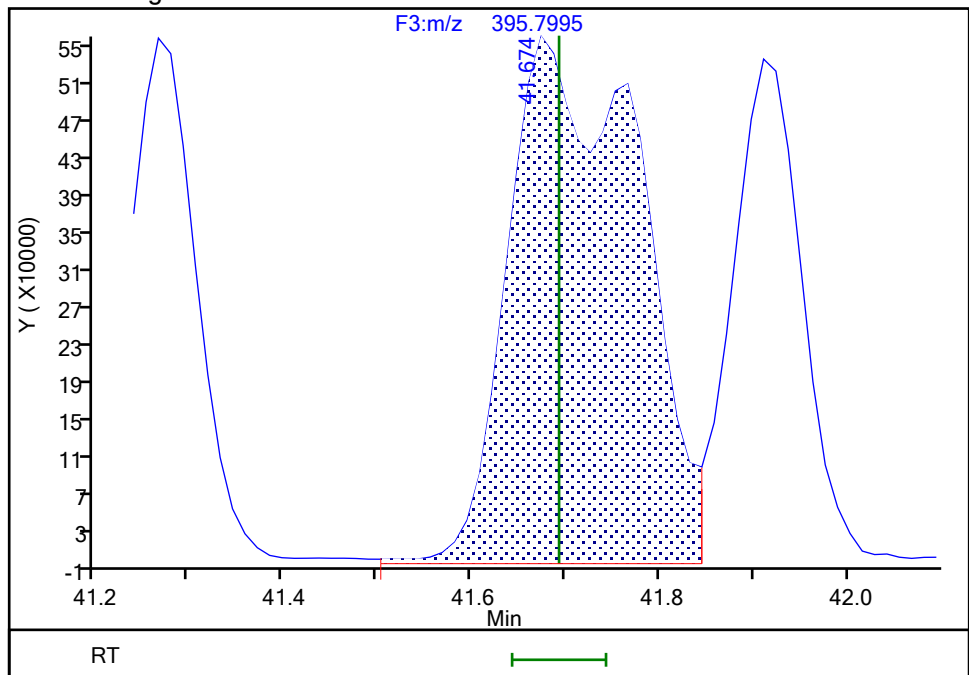
RT: 41.67
Area: 3021759
Amount: 117.0323
Amount Units: pg/ul

Processing Integration Results



RT: 41.67
Area: 5446408
Amount: 209.7534
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:11:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

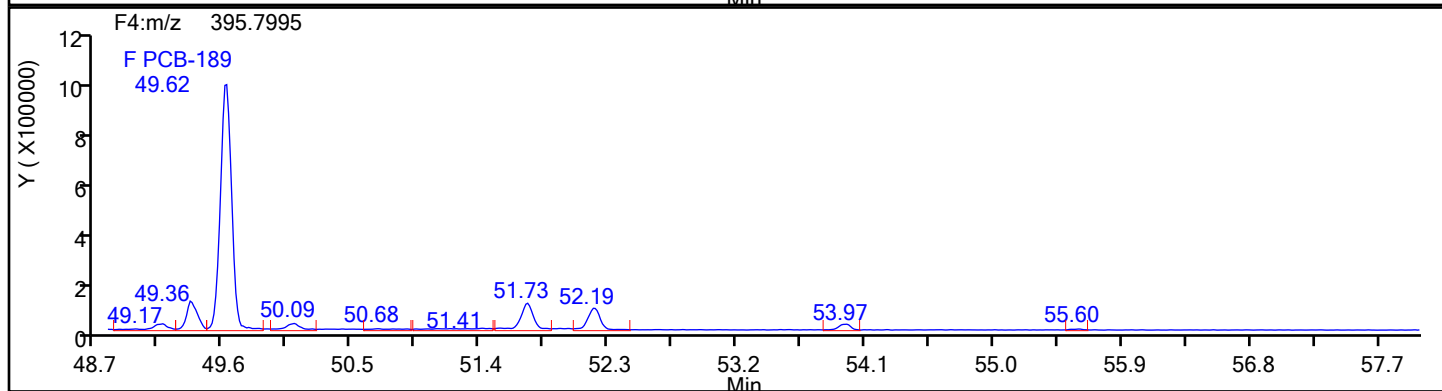
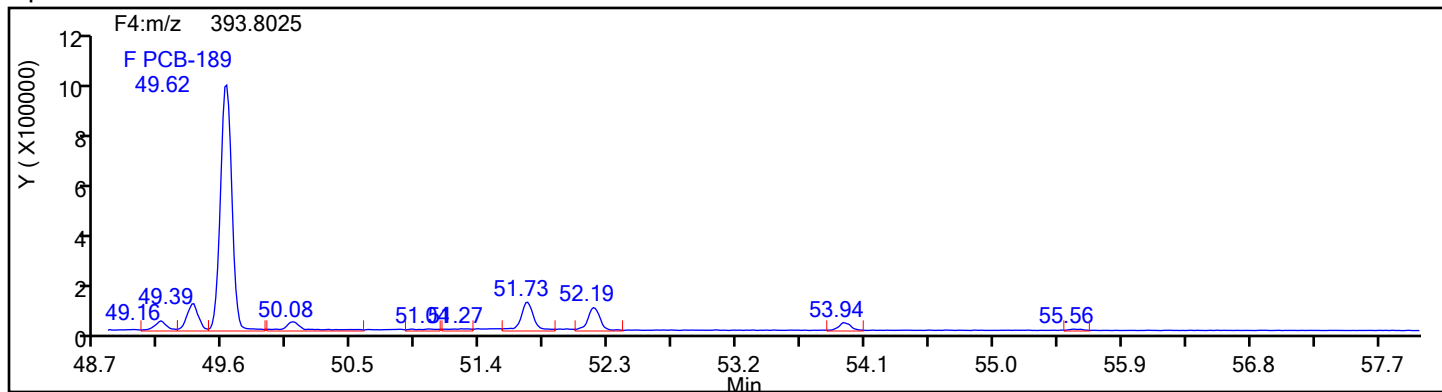
Worklist#: 87130

Sample Line#: 7

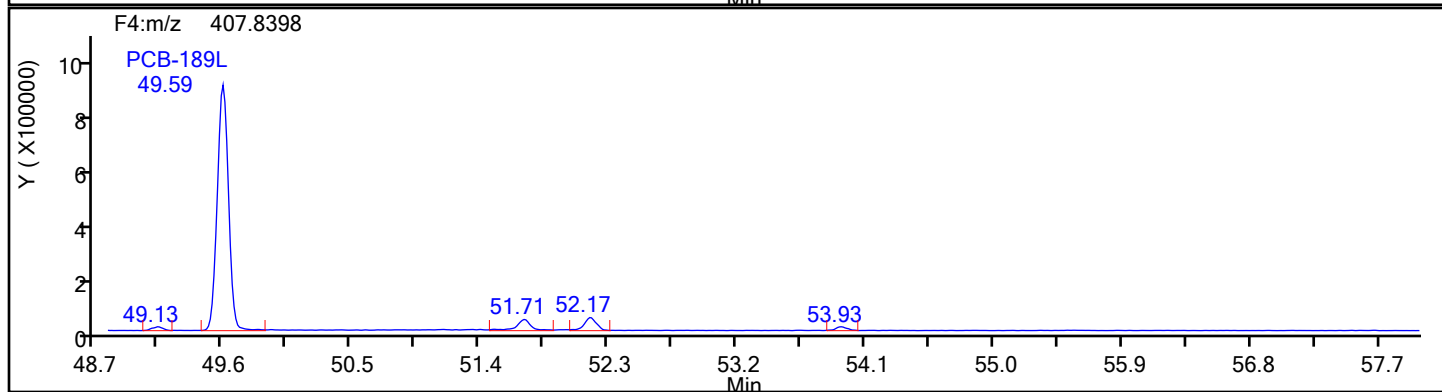
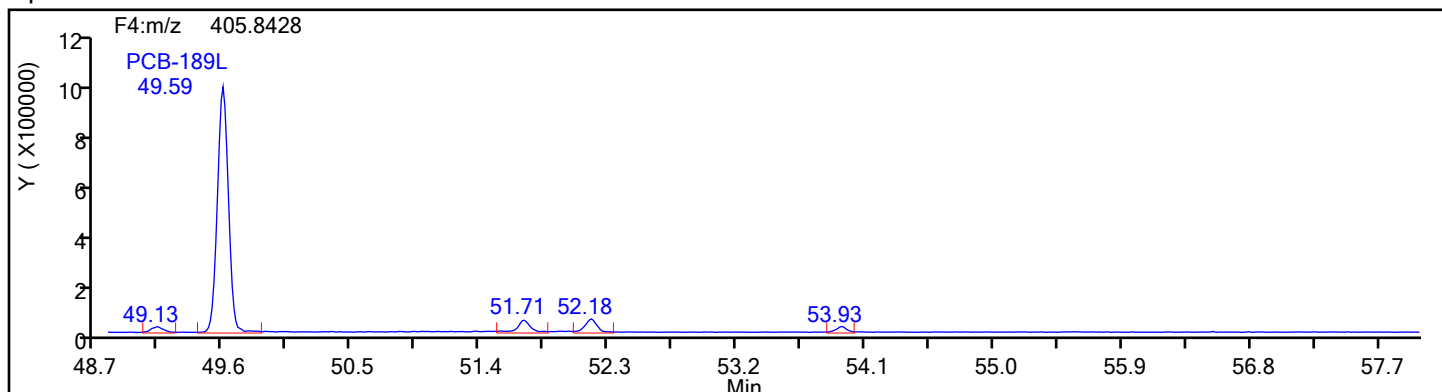
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

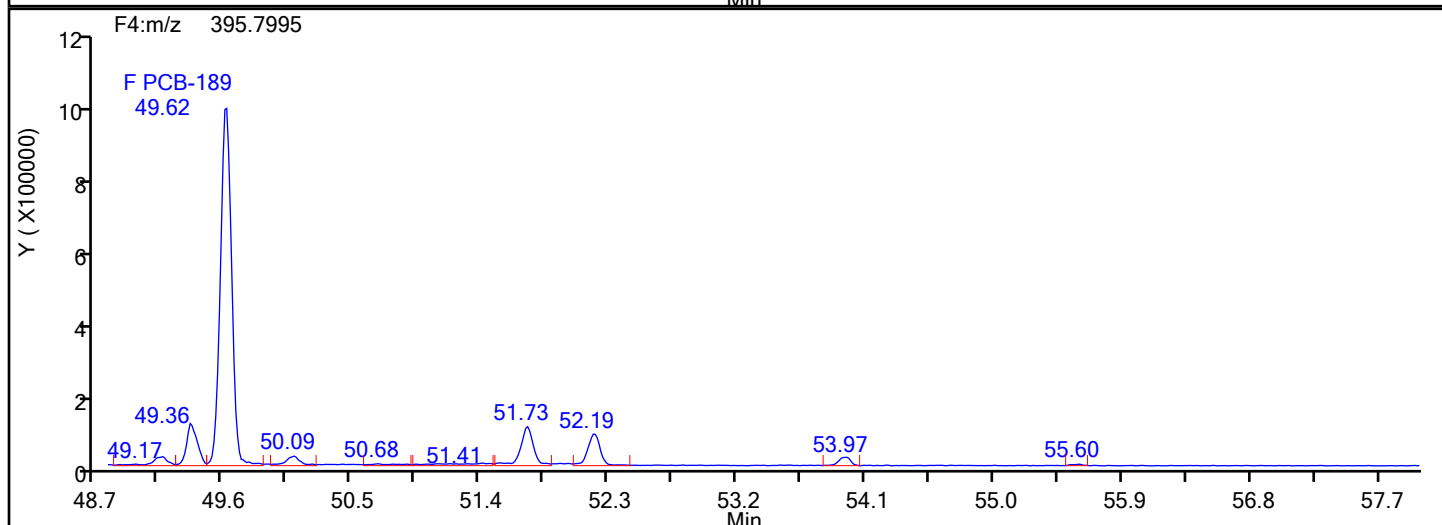
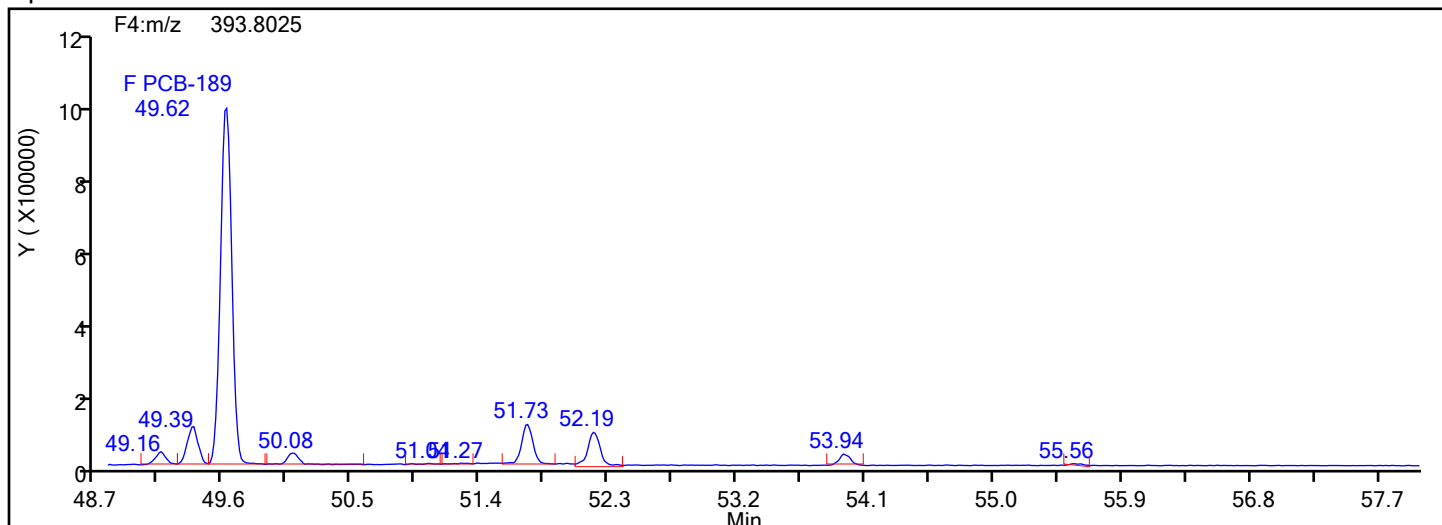
Worklist#: 87130

Sample Line#: 7

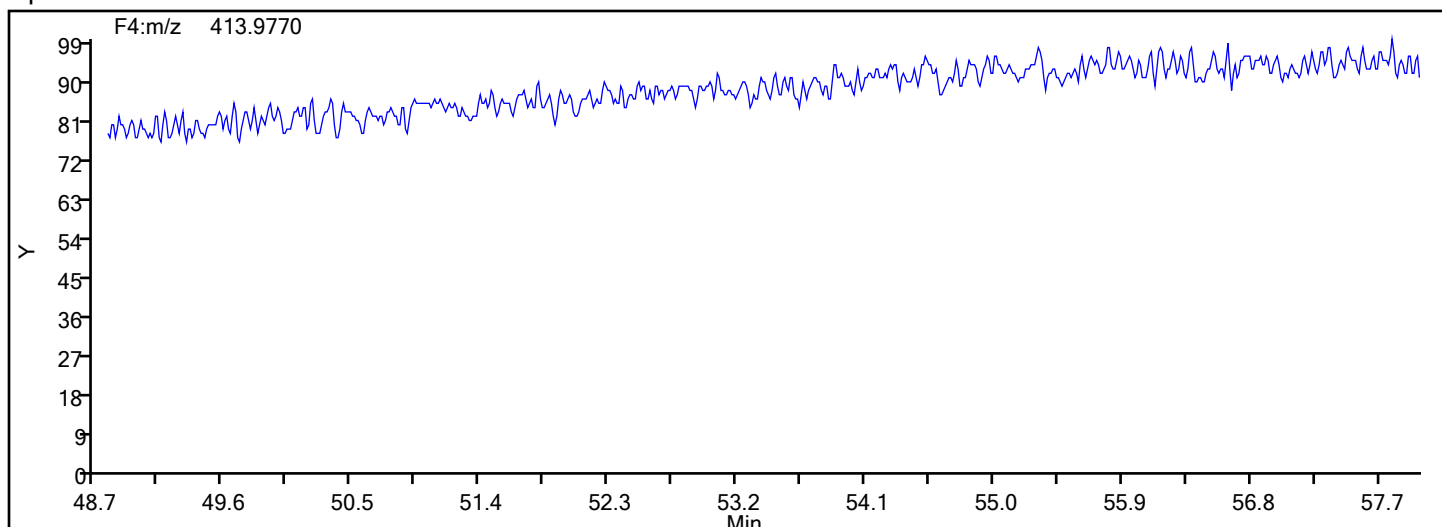
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

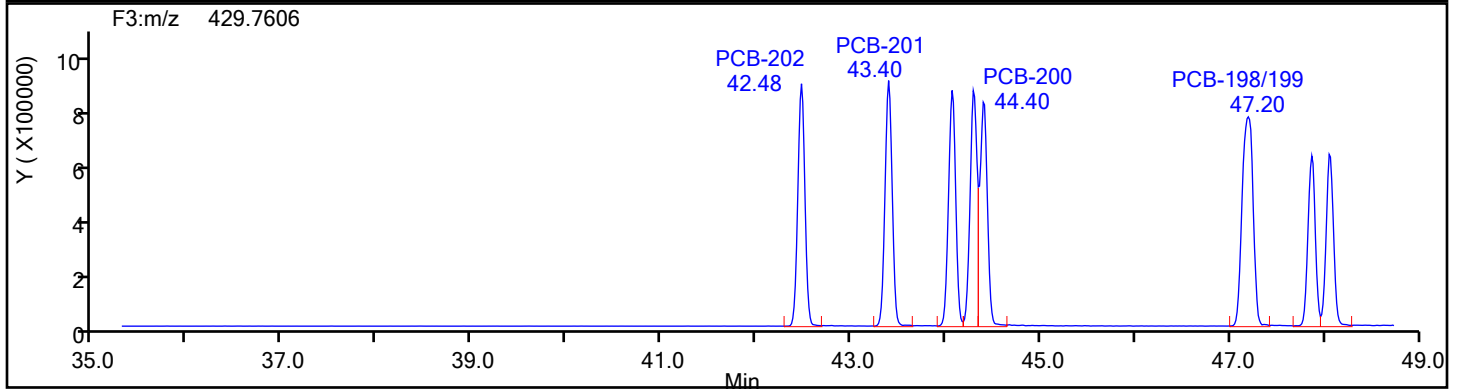
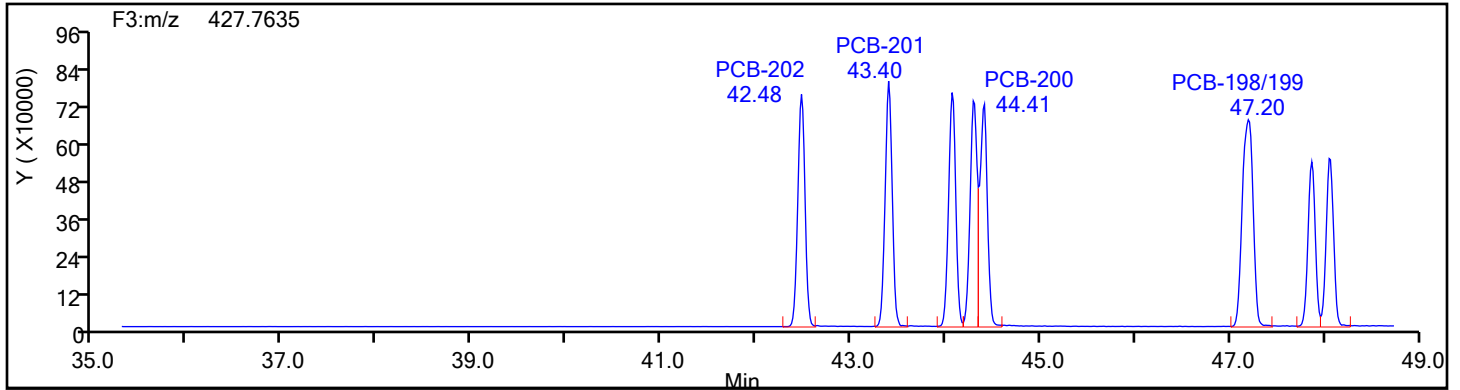
Worklist#: 87130

Sample Line#: 7

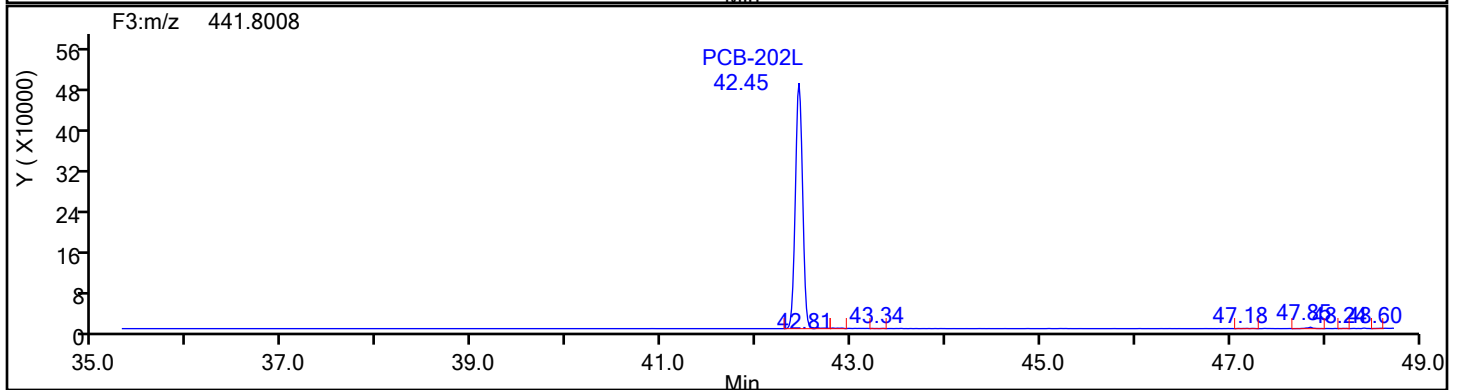
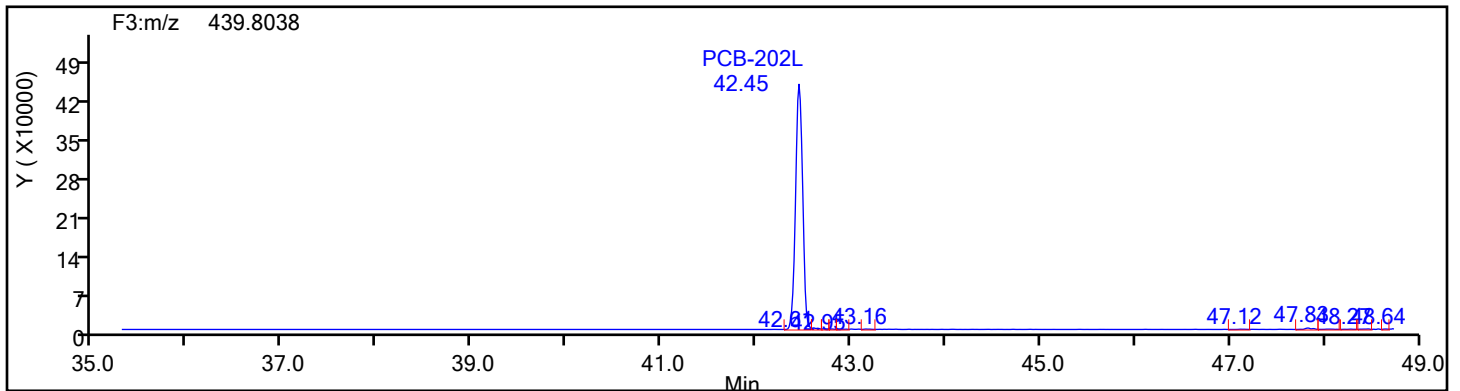
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

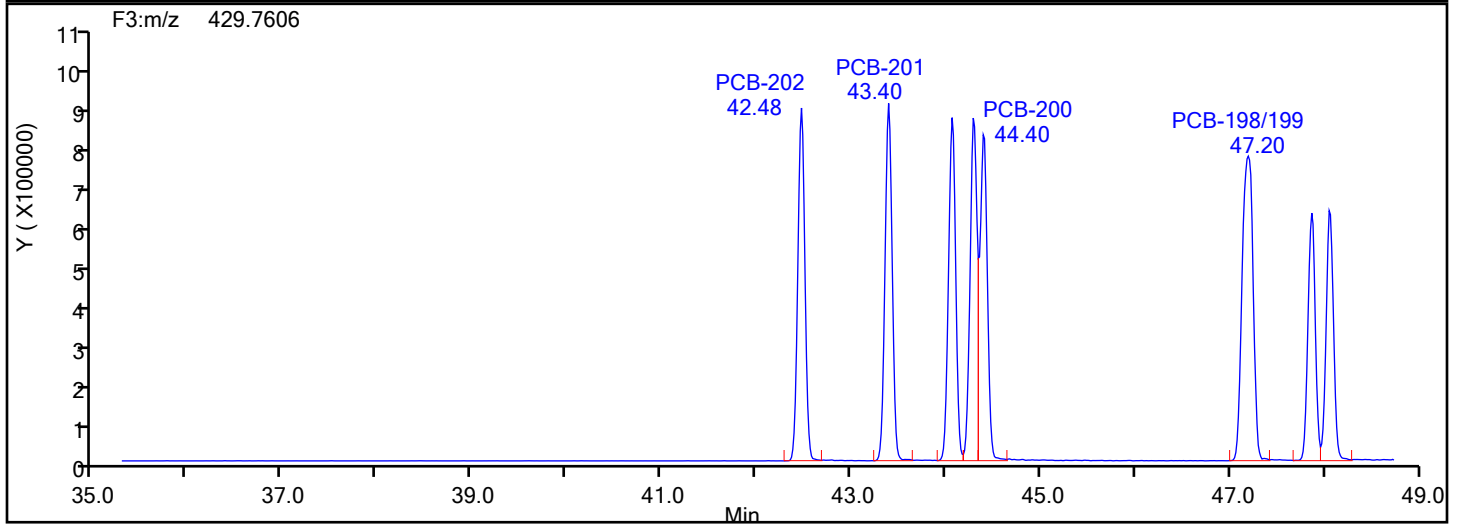
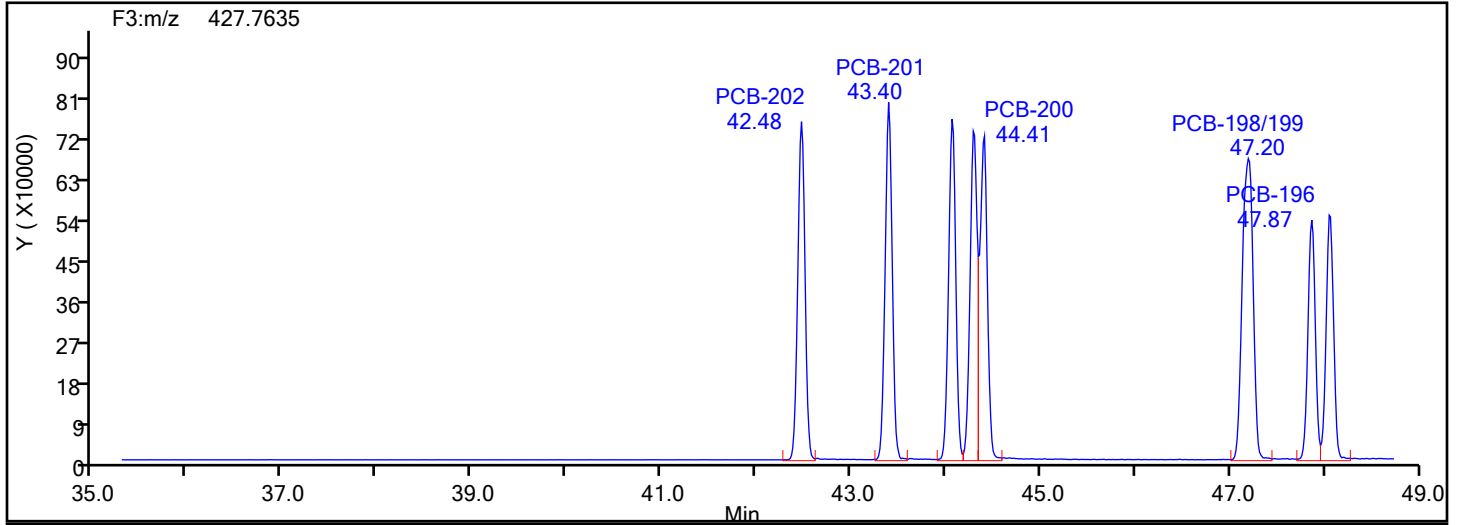
Worklist#: 87130

Sample Line#: 7

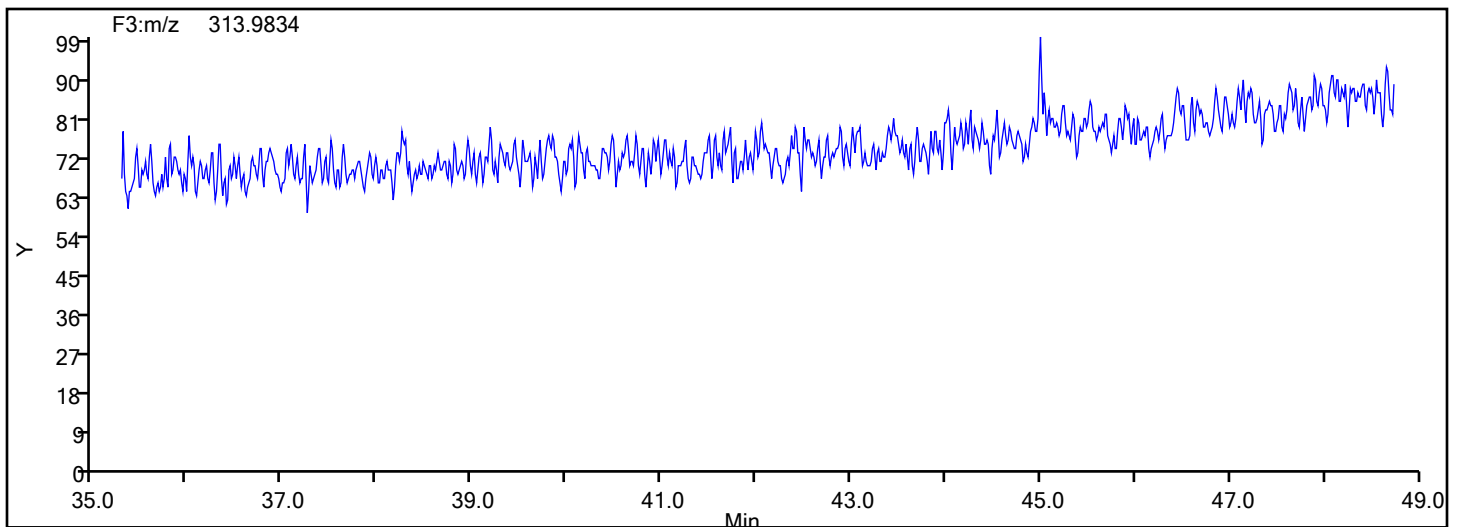
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

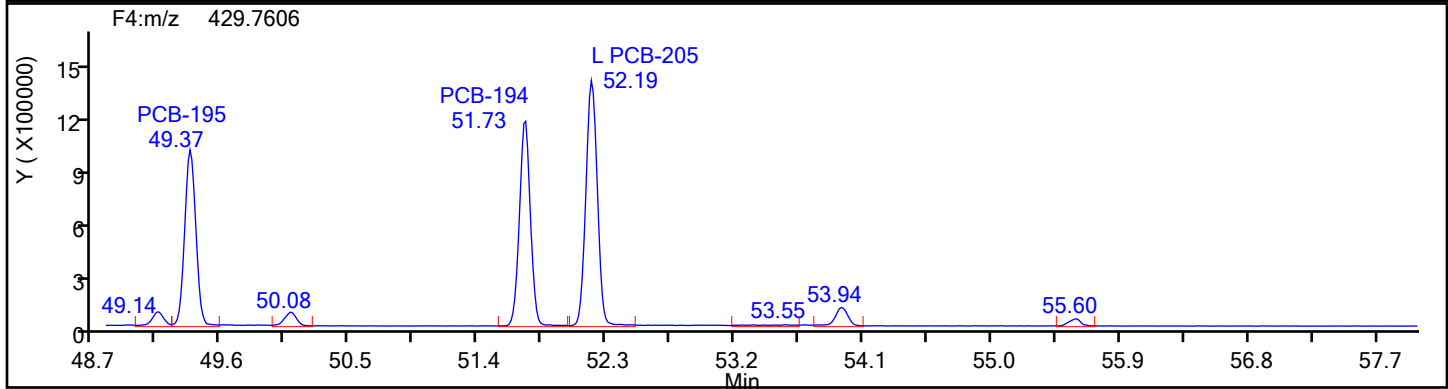
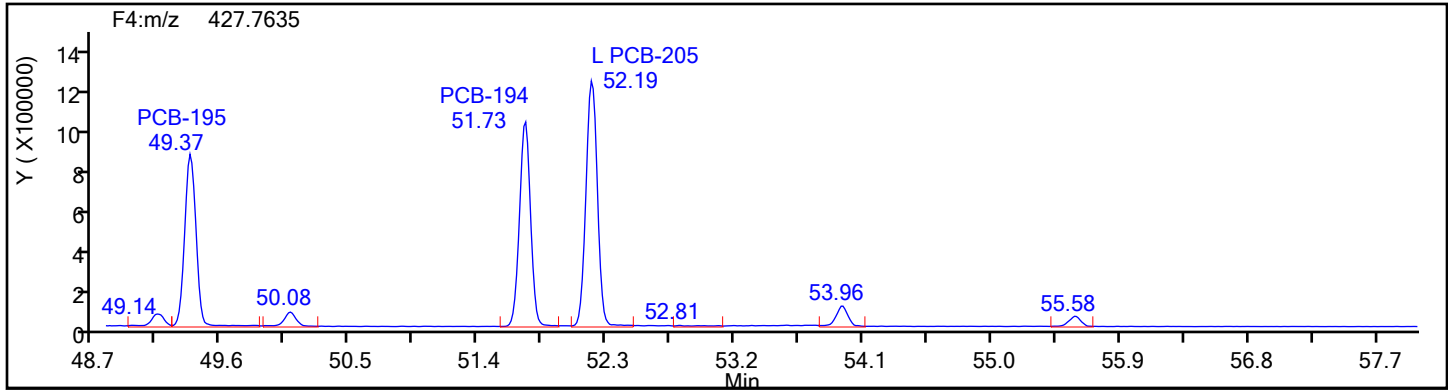
Worklist#: 87130

Sample Line#: 7

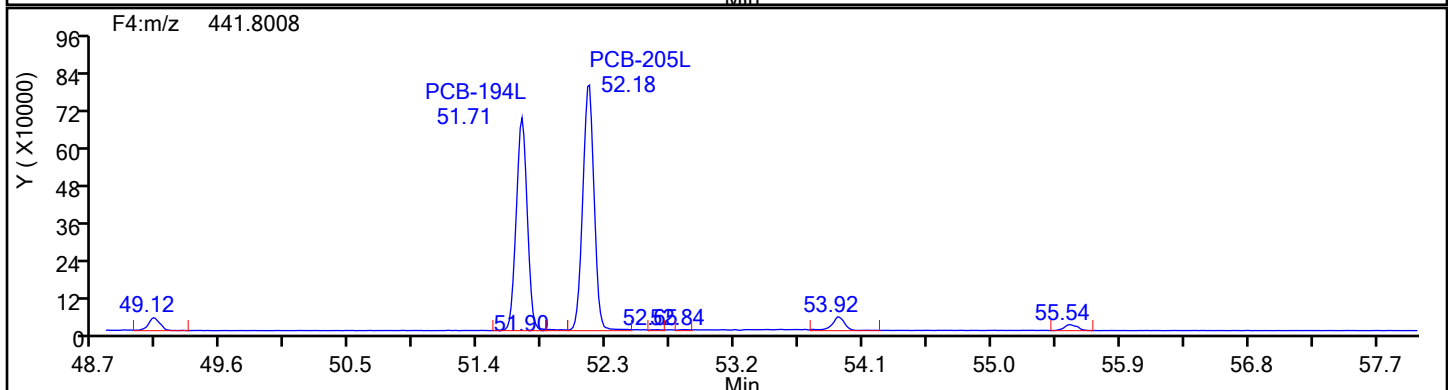
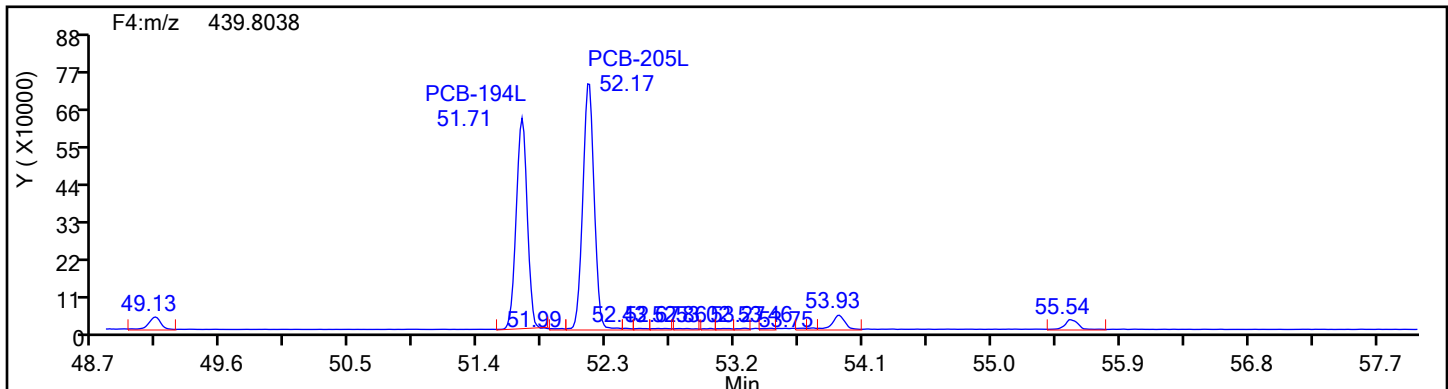
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

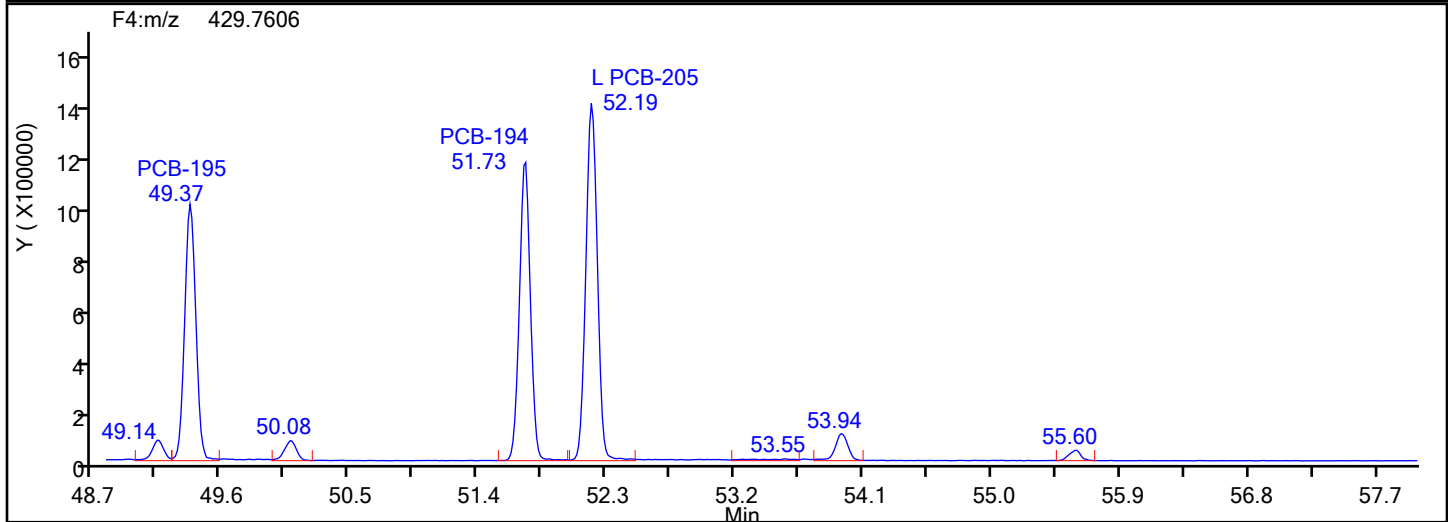
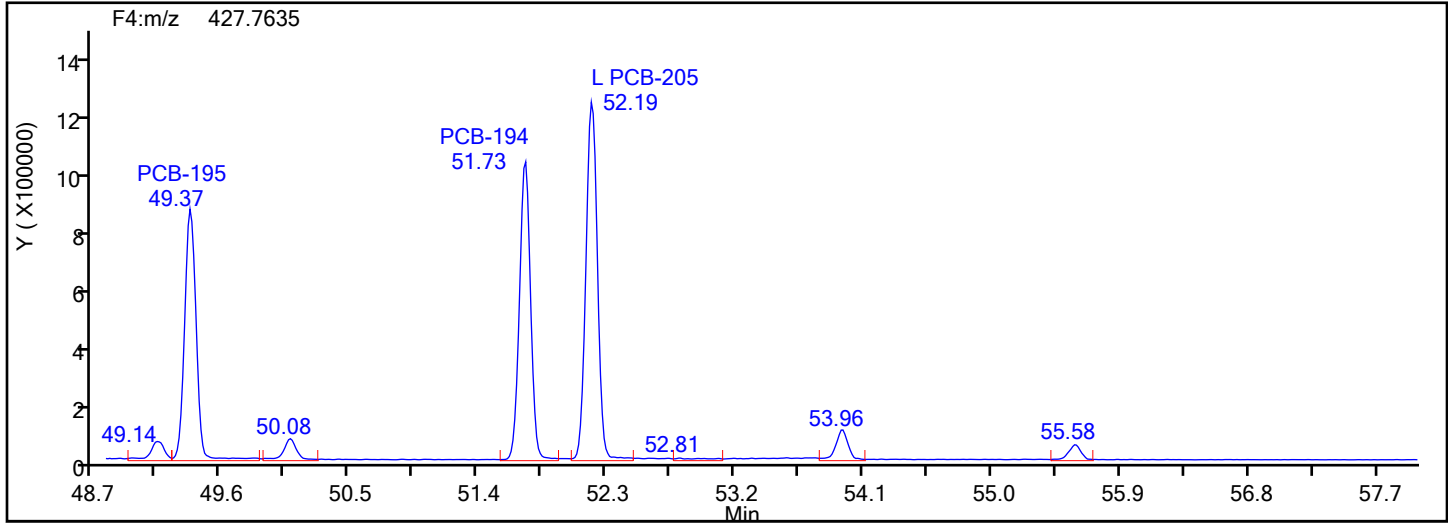
Worklist#: 87130

Sample Line#: 7

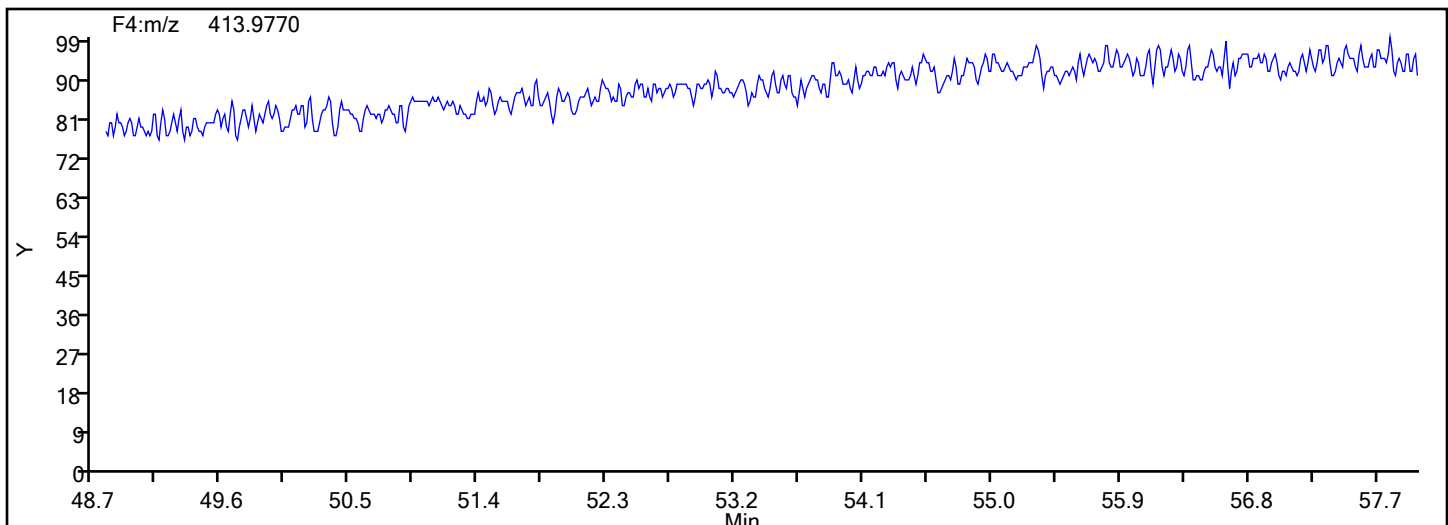
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

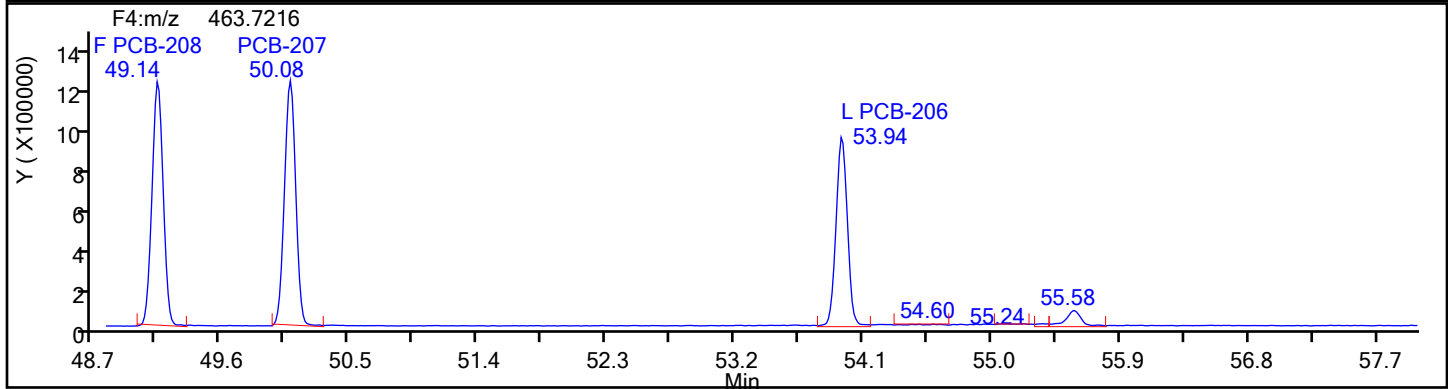
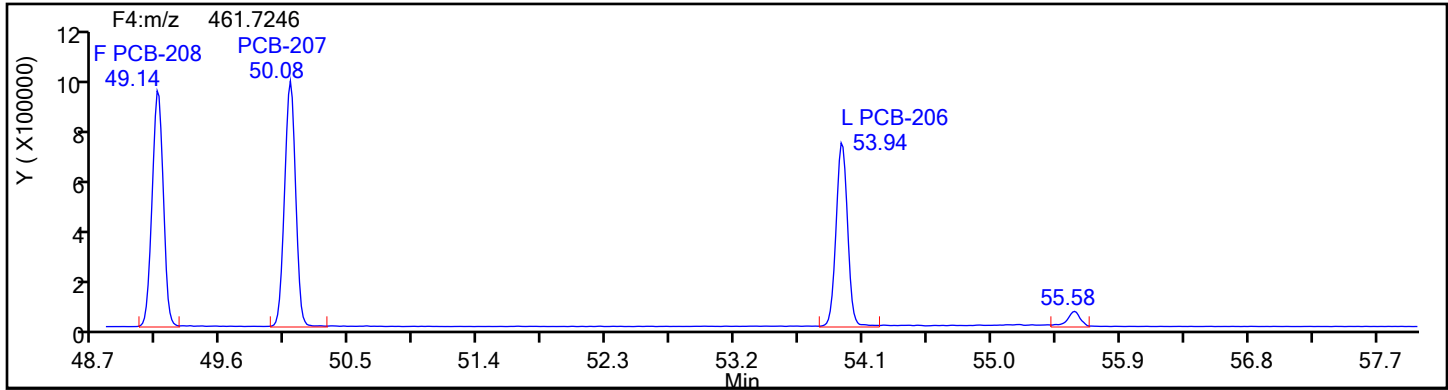


OcPCB F4 Lock Mass

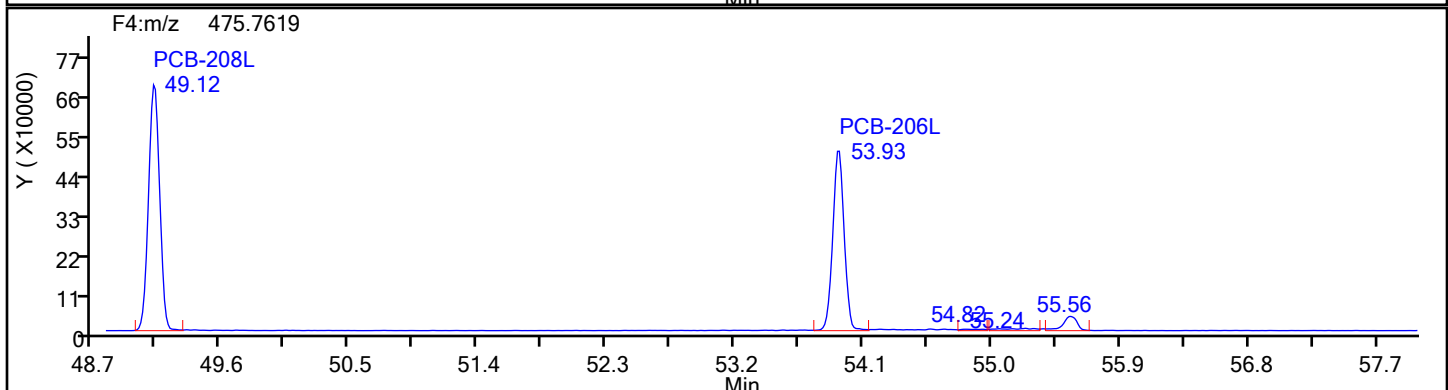
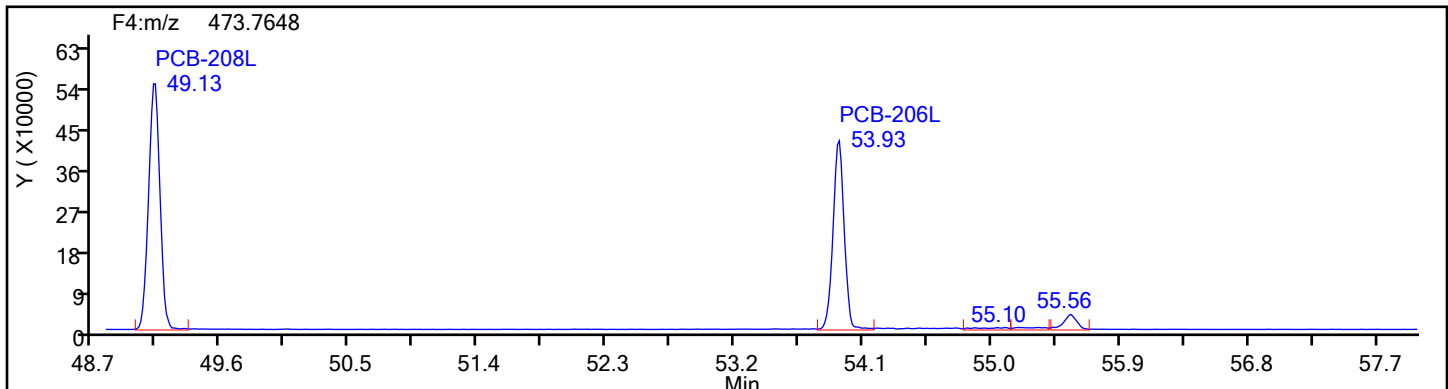


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

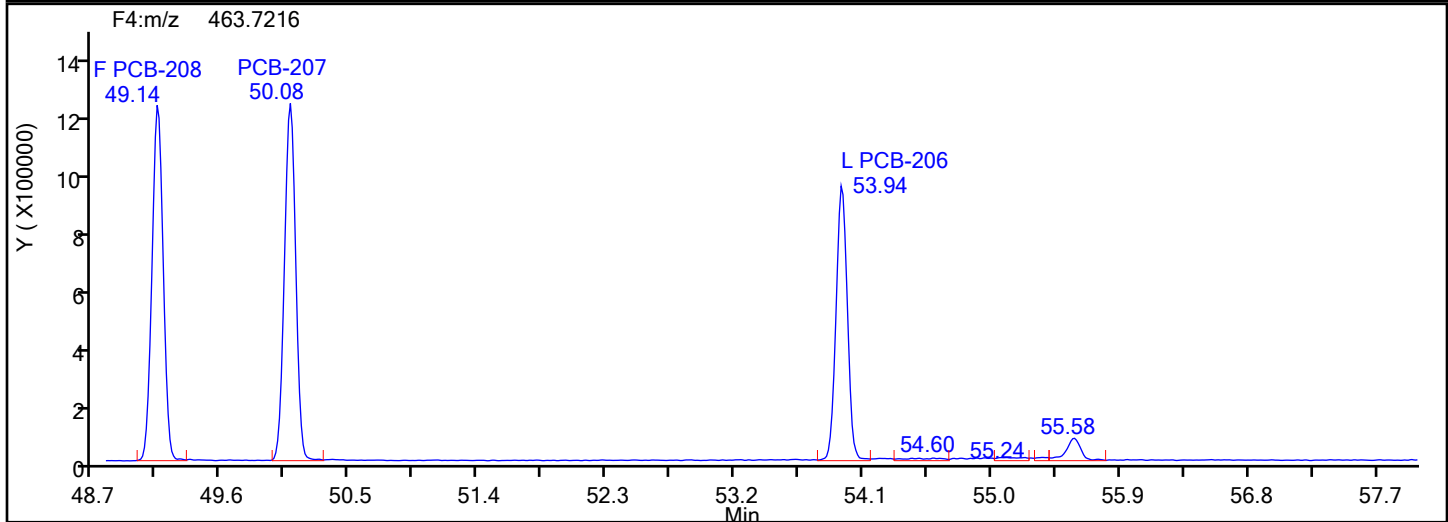
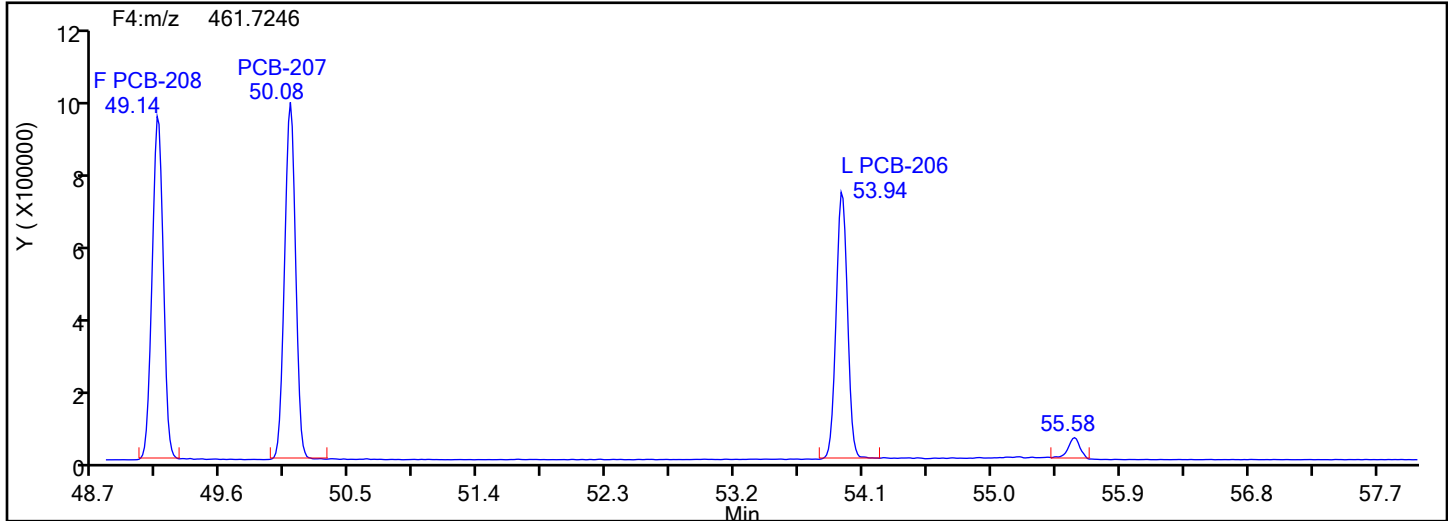
Worklist#: 87130

Sample Line#: 7

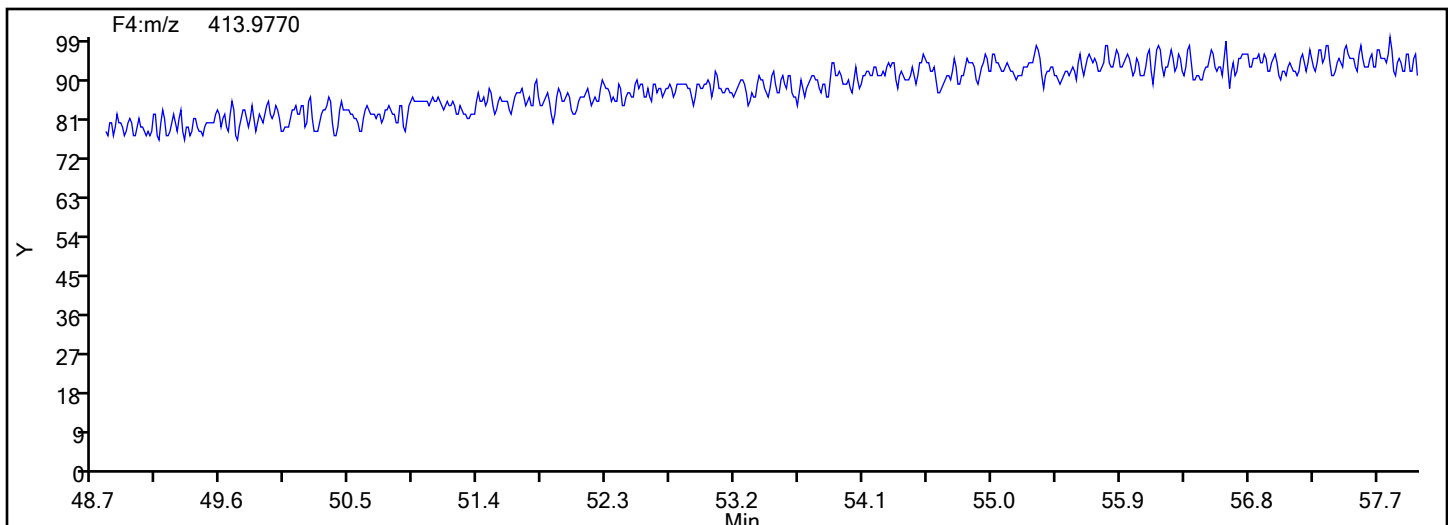
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4

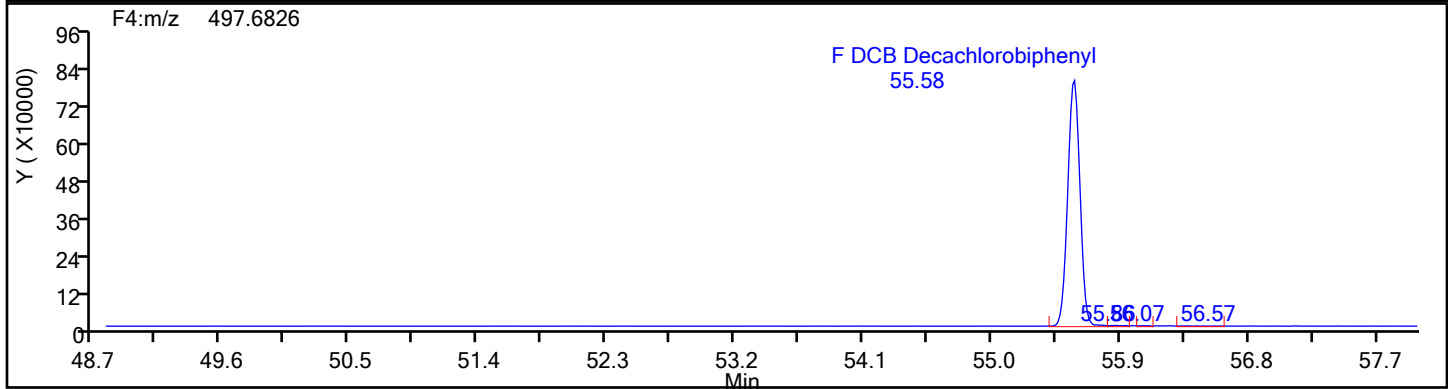
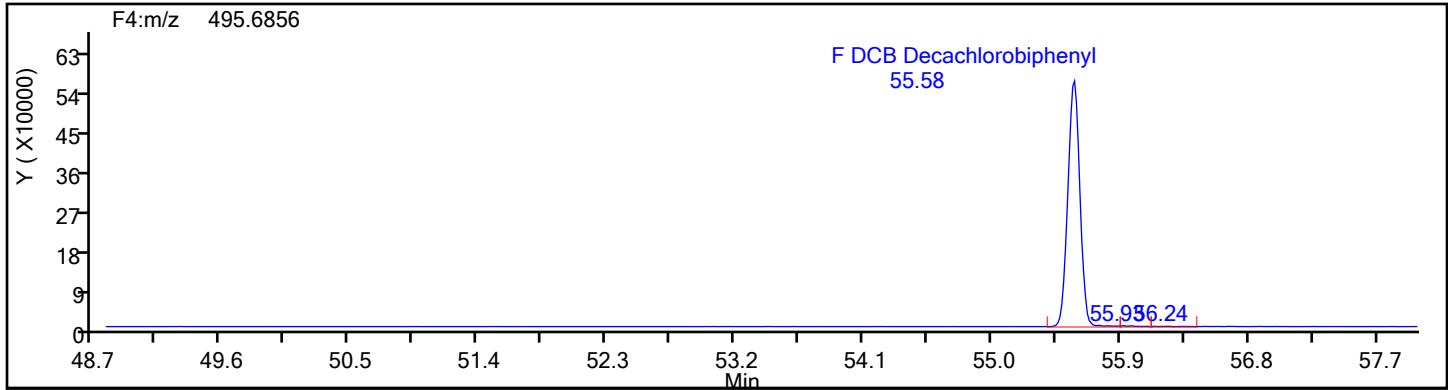


NoPCB F4 Lock Mass

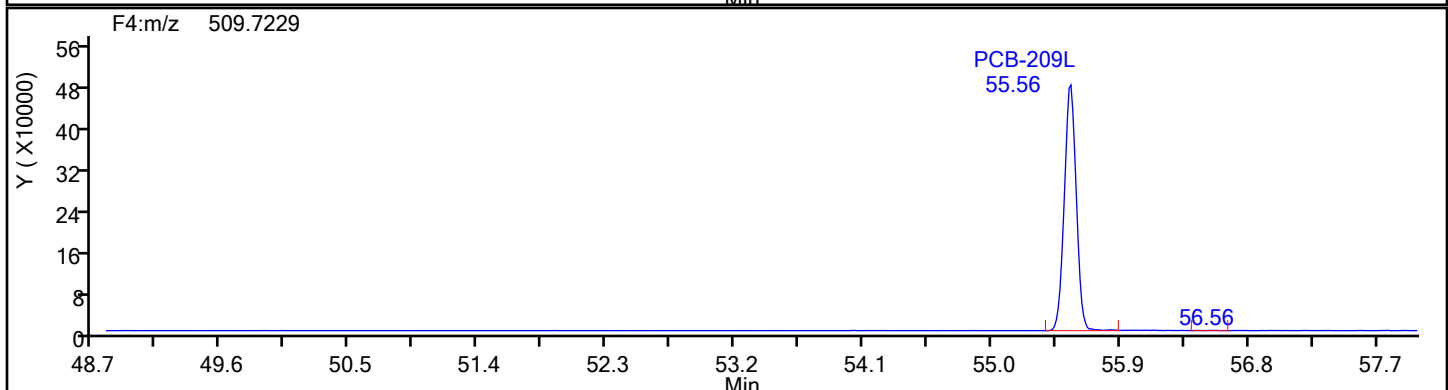
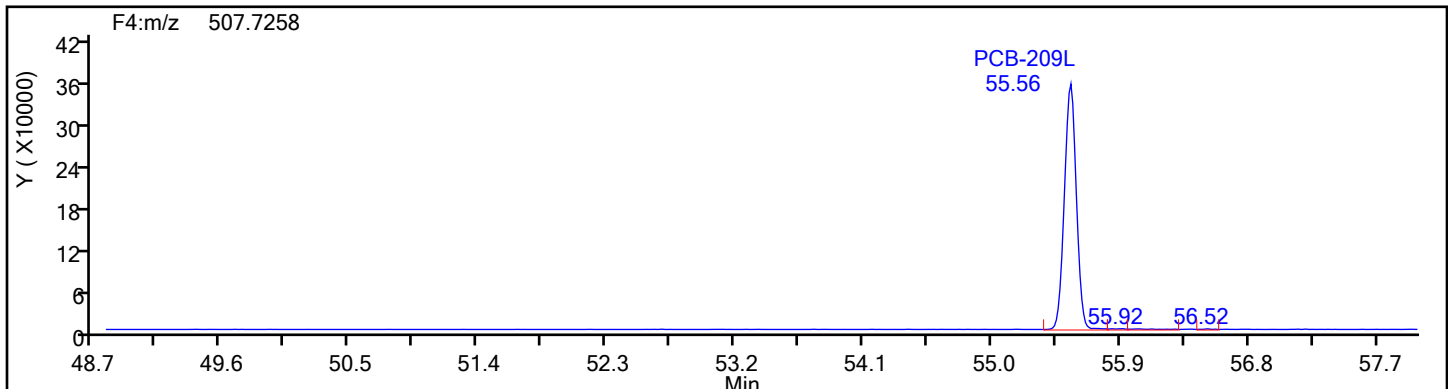


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

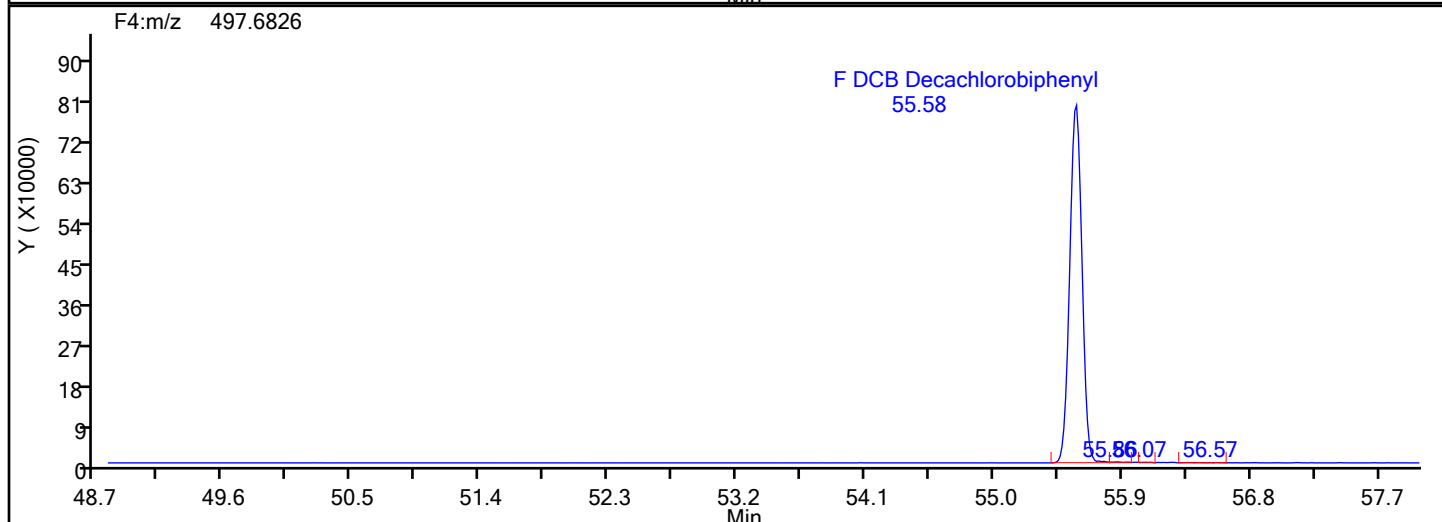
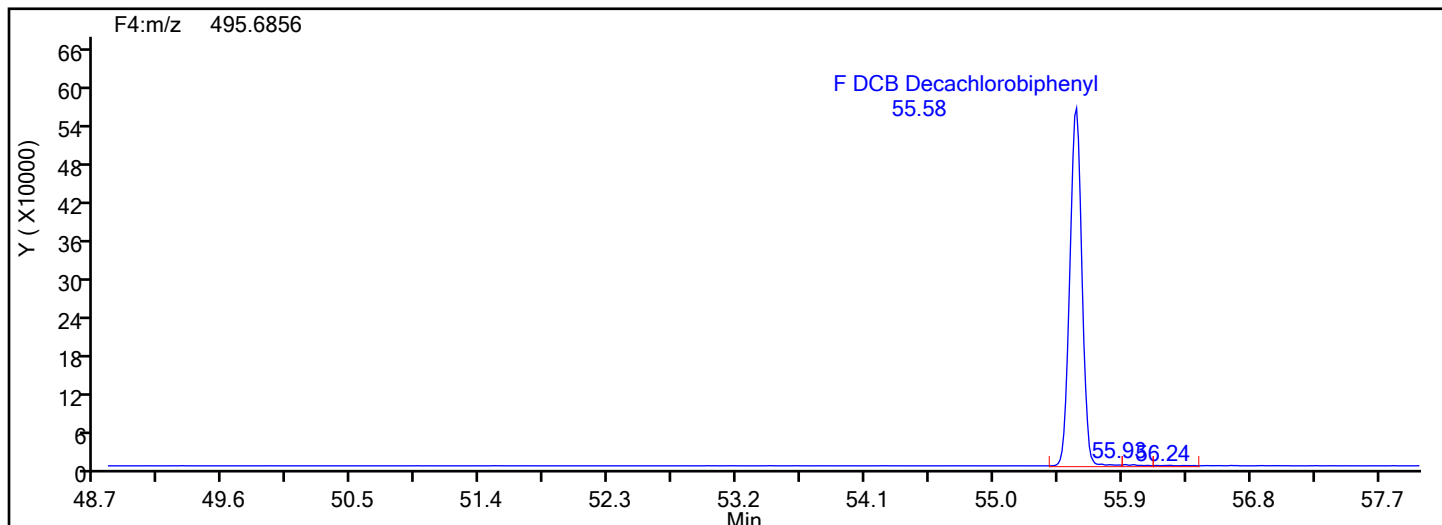
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Sample Line#: 7

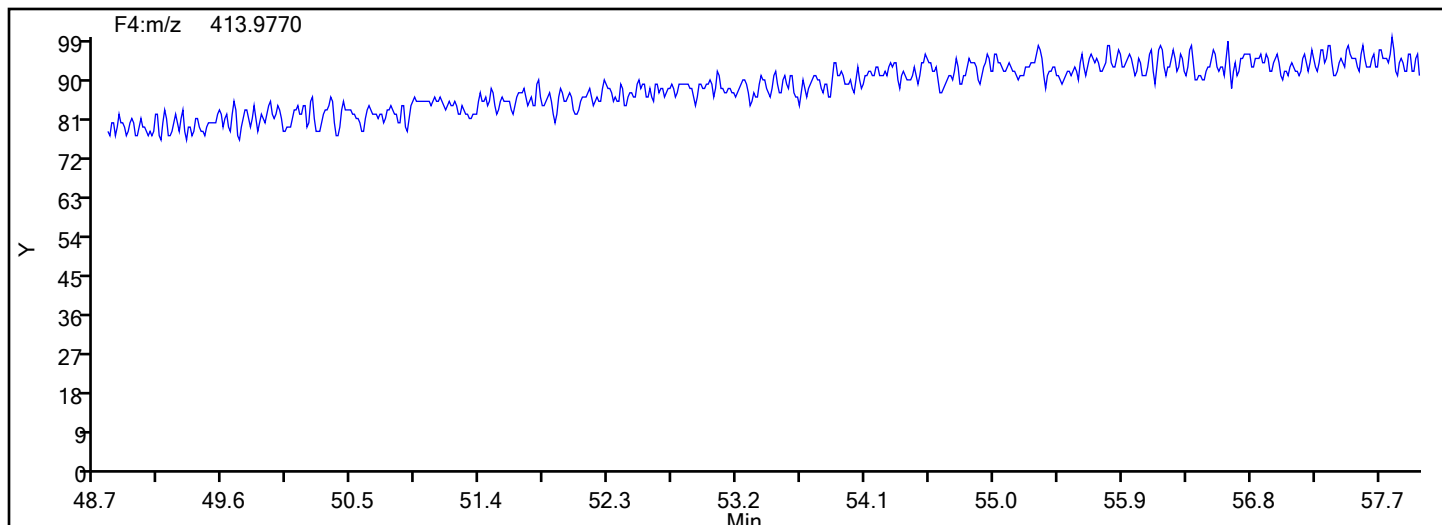
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Lab Sample ID: WDMCCV 140-87502/1 Calibration Date: 06/11/2024 09:41
 Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
 GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
 Lab File ID: d2240611c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1	AveID	1.219	1.228		50.4	50.0	0.7	25.0
PCB-2	AveID	1.181	1.210		51.3	50.0	2.5	25.0
PCB-3	AveID	1.221	1.225		50.2	50.0	0.3	25.0
PCB-4	AveID	1.282	1.280		49.9	50.0	-0.2	25.0
PCB-10	AveID	1.315	1.369		52.0	50.0	4.1	25.0
PCB-9	AveID	1.422	1.457		51.2	50.0	2.4	25.0
PCB-7	AveID	1.413	1.417		50.1	50.0	0.2	25.0
PCB-6	AveID	1.542	1.559		50.6	50.0	1.1	25.0
PCB-5	AveID	1.339	1.362		50.9	50.0	1.7	25.0
PCB-8	AveID	1.589	1.630		51.3	50.0	2.6	25.0
PCB-19	AveID	1.281	1.290		50.4	50.0	0.7	25.0
PCB-14	AveID	1.402	1.410		50.3	50.0	0.5	25.0
PCB-18	AveID	1.765	1.792		102	100	1.5	25.0
PCB-18/30	AveID	1.765	1.792		102	100	1.5	25.0
PCB-30	AveID	1.765	1.792		102	100	1.5	25.0
PCB-11	AveID	1.295	1.292		49.9	50.0	-0.2	25.0
PCB-17	AveID	1.243	1.249		50.2	50.0	0.5	25.0
PCB-12	AveID	1.336	1.359		102	100	1.7	25.0
PCB-12/13	AveID	1.336	1.359		102	100	1.7	25.0
PCB-13	AveID	1.336	1.359		102	100	1.7	25.0
PCB-27	AveID	1.833	1.921		52.4	50.0	4.8	25.0
PCB-24	AveID	1.678	1.722		51.3	50.0	2.6	25.0
PCB-16	AveID	1.129	1.201		53.2	50.0	6.4	25.0
PCB-15	AveID	1.290	1.308		50.7	50.0	1.3	25.0
PCB-54	AveID	1.273	1.278		50.2	50.0	0.4	25.0
PCB-32	AveID	1.832	1.891		51.6	50.0	3.2	25.0
PCB-34	AveID	1.128	1.160		51.5	50.0	2.9	25.0
PCB-23	AveID	1.081	1.072		49.6	50.0	-0.8	25.0
PCB-26	AveID	1.125	1.118		99.4	100	-0.6	25.0
PCB-26/29	AveID	1.125	1.118		99.4	100	-0.6	25.0
PCB-29	AveID	1.125	1.118		99.4	100	-0.6	25.0
PCB-25	AveID	1.273	1.299		51.0	50.0	2.0	25.0
PCB-50	AveID	0.8578	0.8494		99.0	100	-1.0	25.0
PCB-50/53	AveID	0.8578	0.8494		99.0	100	-1.0	25.0
PCB-53	AveID	0.8578	0.8494		99.0	100	-1.0	25.0
PCB-31	AveID	1.153	1.162		50.4	50.0	0.8	25.0
PCB-20	AveID	1.172	1.161		99.0	100	-1.0	25.0
PCB-20/28	AveID	1.172	1.161		99.0	100	-1.0	25.0
PCB-28	AveID	1.172	1.161		99.0	100	-1.0	25.0
PCB-21	AveID	1.075	1.075		100	100	0.0	25.0
PCB-21/33	AveID	1.075	1.075		100	100	0.0	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-87502/1 Calibration Date: 06/11/2024 09:41

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240611c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-33	AveID	1.075	1.075		100	100	0.0	25.0
PCB-45	AveID	0.8264	0.8297		100	100	0.4	25.0
PCB-45/51	AveID	0.8264	0.8297		100	100	0.4	25.0
PCB-51	AveID	0.8264	0.8297		100	100	0.4	25.0
PCB-46	AveID	0.7101	0.7106		50.0	50.0	0.0	25.0
PCB-22	AveID	1.193	1.199		50.2	50.0	0.5	25.0
PCB-52	AveID	0.9194	0.9275		50.4	50.0	0.9	25.0
PCB-43	AveID	1.033	1.030		99.7	100	-0.3	25.0
PCB-43/73	AveID	1.033	1.030		99.7	100	-0.3	25.0
PCB-73	AveID	1.033	1.030		99.7	100	-0.3	25.0
PCB-36	AveID	1.107	1.095		49.5	50.0	-1.1	25.0
PCB-49	AveID	1.069	1.050		98.2	100	-1.8	25.0
PCB-49/69	AveID	1.069	1.050		98.2	100	-1.8	25.0
PCB-69	AveID	1.069	1.050		98.2	100	-1.8	25.0
PCB-39	AveID	1.158	1.150		49.7	50.0	-0.7	25.0
PCB-48	AveID	0.8399	0.8356		49.7	50.0	-0.5	25.0
PCB-104	AveID	1.009	1.018		50.5	50.0	1.0	25.0
PCB-44	AveID	0.9731	0.9530		147	150	-2.1	25.0
PCB-44/47/65	AveID	0.9731	0.9530		147	150	-2.1	25.0
PCB-47	AveID	0.9731	0.9530		147	150	-2.1	25.0
PCB-65	AveID	0.9731	0.9530		147	150	-2.1	25.0
PCB-38	AveID	1.084	1.058		48.8	50.0	-2.4	25.0
PCB-59	AveID	1.185	1.138		144	150	-3.9	25.0
PCB-59/62/75	AveID	1.185	1.138		144	150	-3.9	25.0
PCB-62	AveID	1.185	1.138		144	150	-3.9	25.0
PCB-75	AveID	1.185	1.138		144	150	-3.9	25.0
PCB-96	AveID	1.094	1.066		48.7	50.0	-2.6	25.0
PCB-42	AveID	0.8097	0.8409		51.9	50.0	3.9	25.0
PCB-35	AveID	1.130	1.112		49.2	50.0	-1.6	25.0
PCB-40	AveID	0.8863	0.8693		147	150	-1.9	25.0
PCB-40/41/71	AveID	0.8863	0.8693		147	150	-1.9	25.0
PCB-41	AveID	0.8863	0.8693		147	150	-1.9	25.0
PCB-71	AveID	0.8863	0.8693		147	150	-1.9	25.0
PCB-37	AveID	1.144	1.091		47.7	50.0	-4.6	25.0
PCB-64	AveID	1.178	1.161		49.3	50.0	-1.4	25.0
PCB-72	AveID	1.094	1.101		50.3	50.0	0.6	25.0
PCB-103	AveID	0.8741	0.8629		49.4	50.0	-1.3	25.0
PCB-68	AveID	1.253	1.255		50.1	50.0	0.1	25.0
PCB-94	AveID	0.7640	0.7445		48.7	50.0	-2.6	25.0
PCB-57	AveID	1.082	1.120		51.8	50.0	3.5	25.0
PCB-95	AveID	0.8033	0.8126		50.6	50.0	1.2	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-87502/1 Calibration Date: 06/11/2024 09:41
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240611c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-58	AveID	1.325	1.383		52.2	50.0	4.3	25.0
PCB-100	AveID	0.8429	0.8189		97.2	100	-2.8	25.0
PCB-93	AveID	0.8429	0.8189		97.2	100	-2.8	25.0
PCB-93/100	AveID	0.8429	0.8189		97.2	100	-2.8	25.0
PCB-67	AveID	1.423	1.410		49.6	50.0	-0.9	25.0
PCB-102	AveID	0.8262	0.8177		99.0	100	-1.0	25.0
PCB-98	AveID	0.8262	0.8177		99.0	100	-1.0	25.0
PCB-98/102	AveID	0.8262	0.8177		99.0	100	-1.0	25.0
PCB-63	AveID	1.124	1.151		51.2	50.0	2.4	25.0
PCB-61	AveID	1.261	1.230		195	200	-2.5	25.0
PCB-61/70/74/76	AveID	1.261	1.230		195	200	-2.5	25.0
PCB-70	AveID	1.261	1.230		195	200	-2.5	25.0
PCB-74	AveID	1.261	1.230		195	200	-2.5	25.0
PCB-76	AveID	1.261	1.230		195	200	-2.5	25.0
PCB-88	AveID	0.8013	0.8015		100	100	0.0	25.0
PCB-88/91	AveID	0.8013	0.8015		100	100	0.0	25.0
PCB-91	AveID	0.8013	0.8015		100	100	0.0	25.0
PCB-84	AveID	0.7299	0.7169		49.1	50.0	-1.8	25.0
PCB-66	AveID	1.258	1.307		51.9	50.0	3.9	25.0
PCB-55	AveID	1.324	1.319		49.8	50.0	-0.3	25.0
PCB-89	AveID	0.7798	0.7655		49.1	50.0	-1.8	25.0
PCB-56	AveID	1.233	1.226		49.7	50.0	-0.6	25.0
PCB-121	AveID	1.296	1.302		50.2	50.0	0.4	25.0
PCB-60	AveID	1.123	1.118		49.8	50.0	-0.4	25.0
PCB-92	AveID	0.8546	0.8460		49.5	50.0	-1.0	25.0
PCB-80	AveID	1.324	1.321		49.9	50.0	-0.3	25.0
PCB-155	AveID	0.9444	0.9512		50.4	50.0	0.7	25.0
PCB-152	AveID	0.9895	0.9476		47.9	50.0	-4.2	25.0
PCB-101	AveID	0.9550	0.9355		147	150	-2.0	25.0
PCB-113	AveID	0.9550	0.9355		147	150	-2.0	25.0
PCB-90	AveID	0.9550	0.9355		147	150	-2.0	25.0
PCB-90/101/113	AveID	0.9550	0.9355		147	150	-2.0	25.0
PCB-150	AveID	1.013	0.9893		48.8	50.0	-2.4	25.0
PCB-136	AveID	1.012	0.9890		48.9	50.0	-2.2	25.0
PCB-83	AveID	0.8385	0.8444		101	100	0.7	25.0
PCB-83/99	AveID	0.8385	0.8444		101	100	0.7	25.0
PCB-99	AveID	0.8385	0.8444		101	100	0.7	25.0
PCB-112	AveID	1.411	1.367		48.5	50.0	-3.1	25.0
PCB-145	AveID	0.9685	0.9513		49.1	50.0	-1.8	25.0
PCB-109	AveID	1.047	1.003		287	300	-4.2	25.0
PCB-119	AveID	1.047	1.003		287	300	-4.2	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-87502/1 Calibration Date: 06/11/2024 09:41

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240611c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-125	AveID	1.047	1.003		287	300	-4.2	25.0
PCB-79	AveID	1.437	1.359		47.3	50.0	-5.4	25.0
PCB-86	AveID	1.047	1.003		287	300	-4.2	25.0
PCB-86/87/97/109/119/125	AveID	1.047	1.003		287	300	-4.2	25.0
PCB-87	AveID	1.047	1.003		287	300	-4.2	25.0
PCB-97	AveID	1.047	1.003		287	300	-4.2	25.0
PCB-78	AveID	1.162	1.046		45.0	50.0	-9.9	25.0
PCB-116	AveID	1.041	1.021		147	150	-1.9	25.0
PCB-117	AveID	1.041	1.021		147	150	-1.9	25.0
PCB-85	AveID	1.041	1.021		147	150	-1.9	25.0
PCB-85/116/117	AveID	1.041	1.021		147	150	-1.9	25.0
PCB-110	AveID	1.192	1.172		98.4	100	-1.6	25.0
PCB-110/115	AveID	1.192	1.172		98.4	100	-1.6	25.0
PCB-115	AveID	1.192	1.172		98.4	100	-1.6	25.0
PCB-81	AveID	1.080	1.034		47.9	50.0	-4.3	25.0
PCB-82	AveID	0.8303	0.8253		49.7	50.0	-0.6	25.0
PCB-148	AveID	0.7603	0.7542		49.6	50.0	-0.8	25.0
PCB-77	AveID	1.084	1.053		48.6	50.0	-2.9	25.0
PCB-111	AveID	1.213	1.199		49.4	50.0	-1.1	25.0
PCB-135	AveID	0.7256	0.7104		97.9	100	-2.1	25.0
PCB-135/151	AveID	0.7256	0.7104		97.9	100	-2.1	25.0
PCB-151	AveID	0.7256	0.7104		97.9	100	-2.1	25.0
PCB-120	AveID	1.476	1.438		48.7	50.0	-2.6	25.0
PCB-154	AveID	0.8129	0.8023		49.4	50.0	-1.3	25.0
PCB-144	AveID	0.7852	0.7843		49.9	50.0	-0.1	25.0
PCB-147	AveID	0.8950	0.9686		108	100	8.2	25.0
PCB-147/149	AveID	0.8950	0.9686		108	100	8.2	25.0
PCB-149	AveID	0.8950	0.9686		108	100	8.2	25.0
PCB-134	AveID	0.7967	0.7728		97.0	100	-3.0	25.0
PCB-134/143	AveID	0.7967	0.7728		97.0	100	-3.0	25.0
PCB-143	AveID	0.7967	0.7728		97.0	100	-3.0	25.0
PCB-108	AveID	1.141	1.092		95.8	100	-4.2	25.0
PCB-108/124	AveID	1.141	1.092		95.8	100	-4.2	25.0
PCB-124	AveID	1.141	1.092		95.8	100	-4.2	25.0
PCB-139	AveID	0.8769	0.8538		97.4	100	-2.6	25.0
PCB-139/140	AveID	0.8769	0.8538		97.4	100	-2.6	25.0
PCB-140	AveID	0.8769	0.8538		97.4	100	-2.6	25.0
PCB-107	AveID	1.212	1.203		49.6	50.0	-0.7	25.0
PCB-131	AveID	0.7503	0.7402		49.3	50.0	-1.3	25.0
PCB-123	AveID	1.072	1.068		49.8	50.0	-0.4	25.0
PCB-106	AveID	1.084	1.094		50.5	50.0	0.9	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-87502/1 Calibration Date: 06/11/2024 09:41

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240611c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-142	AveID	0.7507	0.7594		50.6	50.0	1.2	25.0
PCB-118	AveID	1.206	1.143		47.4	50.0	-5.2	25.0
PCB-132	AveID	0.7489	0.7290		48.7	50.0	-2.7	25.0
PCB-122	AveID	0.9567	0.9692		50.7	50.0	1.3	25.0
PCB-114	AveID	1.084	1.067		49.2	50.0	-1.6	25.0
PCB-188	AveID	1.135	1.119		49.3	50.0	-1.4	25.0
PCB-133	AveID	0.8096	0.7935		49.0	50.0	-2.0	25.0
PCB-179	AveID	1.428	1.374		48.1	50.0	-3.8	25.0
PCB-165	AveID	1.025	1.014		49.5	50.0	-1.1	25.0
PCB-105	AveID	1.188	1.191		50.1	50.0	0.3	25.0
PCB-146	AveID	0.9637	0.9729		50.5	50.0	1.0	25.0
PCB-184	AveID	1.367	1.349		49.3	50.0	-1.3	25.0
PCB-161	AveID	1.129	1.094		48.5	50.0	-3.1	25.0
PCB-176	AveID	1.233	1.227		49.8	50.0	-0.5	25.0
PCB-153	AveID	1.094	1.084		99.1	100	-0.9	25.0
PCB-153/168	AveID	1.094	1.084		99.1	100	-0.9	25.0
PCB-168	AveID	1.094	1.084		99.1	100	-0.9	25.0
PCB-141	AveID	0.8755	0.8542		48.8	50.0	-2.4	25.0
PCB-186	AveID	1.474	1.475		50.1	50.0	0.1	25.0
PCB-130	AveID	0.7051	0.6917		49.1	50.0	-1.9	25.0
PCB-127	AveID	1.139	1.162		51.0	50.0	2.0	25.0
PCB-137	AveID	0.7767	0.7646		49.2	50.0	-1.6	25.0
PCB-164	AveID	1.038	1.052		50.7	50.0	1.3	25.0
PCB-129	AveID	0.9464	0.9311		197	200	-1.6	25.0
PCB-129/138/160/163	AveID	0.9464	0.9311		197	200	-1.6	25.0
PCB-138	AveID	0.9464	0.9311		197	200	-1.6	25.0
PCB-160	AveID	0.9464	0.9311		197	200	-1.6	25.0
PCB-163	AveID	0.9464	0.9311		197	200	-1.6	25.0
PCB-158	AveID	1.311	1.285		49.0	50.0	-2.0	25.0
PCB-178	AveID	0.8946	0.8726		48.8	50.0	-2.5	25.0
PCB-175	AveID	0.9524	0.9397		49.3	50.0	-1.3	25.0
PCB-126	AveID	1.098	1.147		52.3	50.0	4.5	25.0
PCB-128	AveID	0.9829	0.9887		101	100	0.6	25.0
PCB-128/166	AveID	0.9829	0.9887		101	100	0.6	25.0
PCB-166	AveID	0.9829	0.9887		101	100	0.6	25.0
PCB-187	AveID	1.102	1.118		50.7	50.0	1.5	25.0
PCB-182	AveID	0.9247	0.9629		52.1	50.0	4.1	25.0
PCB-183	AveID	0.9825	0.9445		96.1	100	-3.9	25.0
PCB-183/185	AveID	0.9825	0.9445		96.1	100	-3.9	25.0
PCB-185	AveID	0.9825	0.9445		96.1	100	-3.9	25.0
PCB-174	AveID	0.9642	1.005		52.1	50.0	4.3	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-87502/1 Calibration Date: 06/11/2024 09:41
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240611c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-159	AveID	1.386	1.343		48.5	50.0	-3.1	25.0
PCB-162	AveID	1.257	1.230		48.9	50.0	-2.2	25.0
PCB-177	AveID	0.9773	0.9584		49.0	50.0	-1.9	25.0
PCB-202	AveID	1.036	1.057		51.0	50.0	2.1	25.0
PCB-167	AveID	1.116	1.097		49.1	50.0	-1.7	25.0
PCB-181	AveID	0.9505	0.9386		49.4	50.0	-1.3	25.0
PCB-171	AveID	0.9336	0.8807		94.3	100	-5.7	25.0
PCB-171/173	AveID	0.9336	0.8807		94.3	100	-5.7	25.0
PCB-173	AveID	0.9336	0.8807		94.3	100	-5.7	25.0
PCB-201	AveID	0.9754	0.9848		50.5	50.0	1.0	25.0
PCB-156	AveID	1.110	1.097		98.8	100	-1.2	25.0
PCB-156/157	AveID	1.110	1.097		98.8	100	-1.2	25.0
PCB-157	AveID	1.110	1.097		98.8	100	-1.2	25.0
PCB-204	AveID	1.049	1.017		48.5	50.0	-3.0	25.0
PCB-197	AveID	1.146	1.064		46.5	50.0	-7.1	25.0
PCB-200	AveID	1.007	1.001		49.7	50.0	-0.6	25.0
PCB-172	AveID	0.8519	0.8597		50.5	50.0	0.9	25.0
PCB-192	AveID	1.346	1.370		50.9	50.0	1.8	25.0
PCB-180	AveID	1.168	1.169		100	100	0.0	25.0
PCB-180/193	AveID	1.168	1.169		100	100	0.0	25.0
PCB-193	AveID	1.168	1.169		100	100	0.0	25.0
PCB-191	AveID	1.289	1.324		51.4	50.0	2.7	25.0
PCB-170	AveID	1.187	1.194		50.3	50.0	0.7	25.0
PCB-190	AveID	1.332	1.307		49.0	50.0	-1.9	25.0
PCB-169	AveID	1.163	1.144		49.2	50.0	-1.7	25.0
PCB-198	AveID	0.8698	0.8453		97.2	100	-2.8	25.0
PCB-198/199	AveID	0.8698	0.8453		97.2	100	-2.8	25.0
PCB-199	AveID	0.8698	0.8453		97.2	100	-2.8	25.0
PCB-196	AveID	0.7806	0.7760		49.7	50.0	-0.6	25.0
PCB-203	AveID	0.9292	0.9498		51.1	50.0	2.2	25.0
PCB-208	AveID	1.137	1.096		48.2	50.0	-3.7	25.0
PCB-195	AveID	0.8263	0.8429		51.0	50.0	2.0	25.0
PCB-189	AveID	0.9633	0.9720		50.5	50.0	0.9	25.0
PCB-207	AveID	1.376	1.329		48.3	50.0	-3.4	25.0
PCB-194	AveID	0.9735	0.9531		49.0	50.0	-2.1	25.0
PCB-205	AveID	1.088	1.085		49.9	50.0	-0.3	25.0
PCB-206	AveID	1.335	1.231		46.1	50.0	-7.8	25.0
PCB-209	AveID	1.100	1.096		49.8	50.0	-0.4	25.0
PCB-1L	Ave	1.611	1.546		96.0	100	-4.0	30.0
PCB-3L	Ave	1.589	1.501		94.4	100	-5.6	30.0
PCB-4L	Ave	0.6475	0.6422		99.2	100	-0.8	30.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-87502/1 Calibration Date: 06/11/2024 09:41

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240611c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-19L	Ave	0.6285	0.6190		98.5	100	-1.5	30.0
PCB-15L	Ave	1.079	1.044		96.8	100	-3.2	30.0
PCB-54L	Ave	0.5562	0.5774		104	100	3.8	30.0
PCB-104L	Ave	1.216	1.251		103	100	2.9	30.0
PCB-37L	Ave	0.8749	0.8810		101	100	0.7	30.0
PCB-155L	Ave	1.085	1.157		107	100	6.6	30.0
PCB-81L	Ave	1.247	1.223		98.1	100	-1.9	30.0
PCB-77L	Ave	1.321	1.271		96.2	100	-3.8	30.0
PCB-123L	Ave	0.9731	0.9613		98.8	100	-1.2	30.0
PCB-118L	Ave	1.010	1.040		103	100	2.9	30.0
PCB-114L	Ave	0.9949	1.007		101	100	1.2	30.0
PCB-188L	Ave	1.313	1.312		99.9	100	-0.0	30.0
PCB-105L	Ave	0.9514	0.9568		101	100	0.6	30.0
PCB-126L	Ave	0.9439	0.9572		101	100	1.4	30.0
PCB-202L	Ave	0.9818	1.006		103	100	2.5	30.0
PCB-167L	Ave	1.257	1.252		99.6	100	-0.4	30.0
PCB-156L	Ave	1.211	1.212		200	200	0.1	30.0
PCB-156L/157L	Ave	1.211	1.212		200	200	0.1	30.0
PCB-157L	Ave	1.211	1.212		200	200	0.1	30.0
PCB-170L	Ave	0.8362	0.8346		99.8	100	-0.2	30.0
PCB-169L	Ave	1.244	1.247		100	100	0.3	30.0
PCB-208L	Ave	0.9576	1.029		108	100	7.5	30.0
PCB-189L	Ave	1.441	1.415		98.2	100	-1.8	30.0
PCB-205L	Ave	1.179	1.181		100	100	0.2	30.0
PCB-206L	Ave	0.6947	0.7453		107	100	7.3	30.0
PCB-209L	Ave	0.6669	0.7731		116	100	15.9	30.0
PCB-8L	AveID	1.207	1.135		47.1	50.0	-5.9	25.0
PCB-28L	Ave	1.049	0.9780		46.6	50.0	-6.8	30.0
PCB-95L	AveID	0.7218	0.7044		48.8	50.0	-2.4	25.0
PCB-79L	AveID	1.002	0.9824		49.0	50.0	-1.9	25.0
PCB-111L	Ave	1.370	1.297		47.4	50.0	-5.3	30.0
PCB-153L	AveID	0.9169	0.8391		45.8	50.0	-8.5	25.0
PCB-178L	Ave	1.031	0.9528		46.2	50.0	-7.6	30.0

Resolution Check Report (DFS SN: 3190)

Date: 11 Jun 2024 09:25
MID Experiment: ResCheck_1668
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43KnxPCB.lua
Status: RESOLUTION PASSED

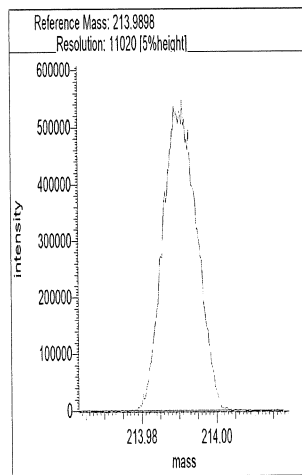
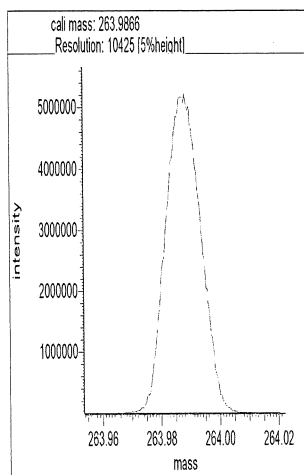
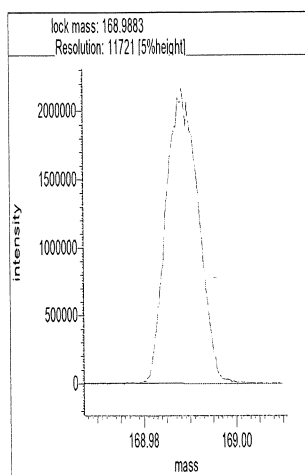
d2240611r1

Segment 1

Lock mass 168.9883 [m/z] Resolution: 11721 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 10425 [5%height]

Ref. mass 213.9898 [m/z] Resolution: 11020 [5%height]

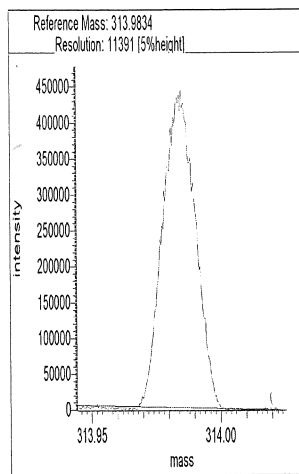
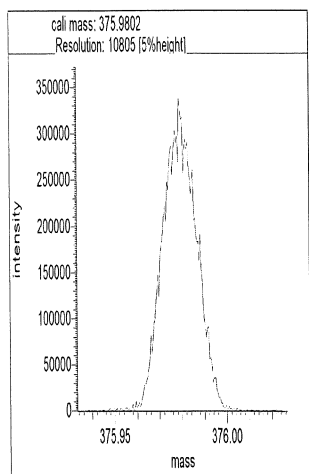
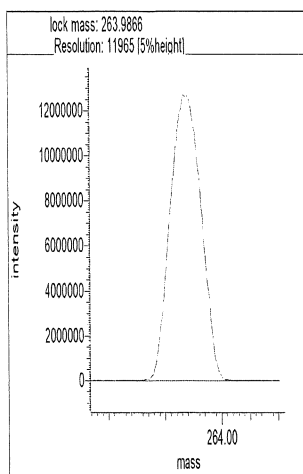


Segment 2

Lock mass 263.9866 [m/z] Resolution: 11965 [5%height]

Cali. mass 375.9802 [m/z] Resolution: 10805 [5%height]

Ref. mass 313.9834 [m/z] Resolution: 11391 [5%height]

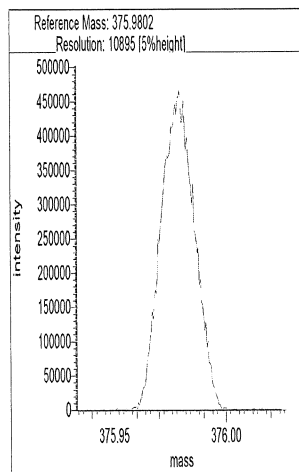
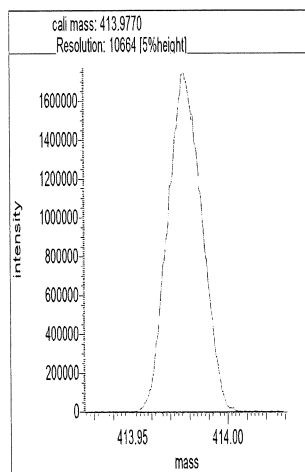
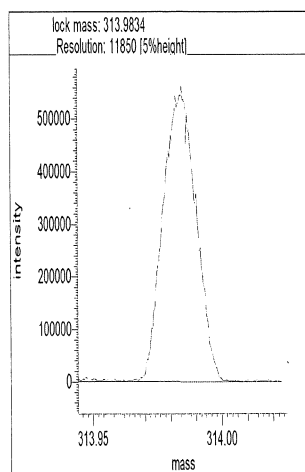


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11850 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 10664 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 10895 [5%height]

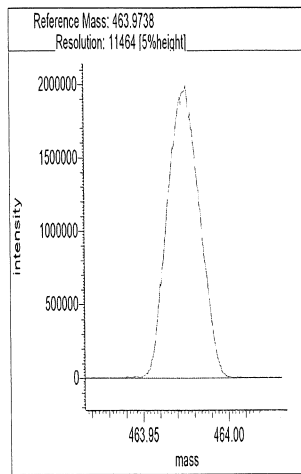
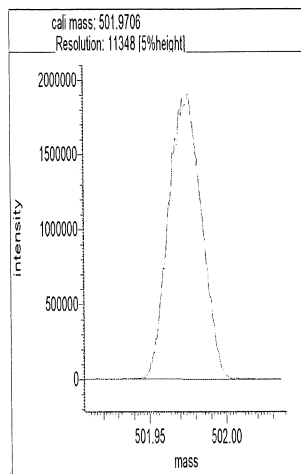
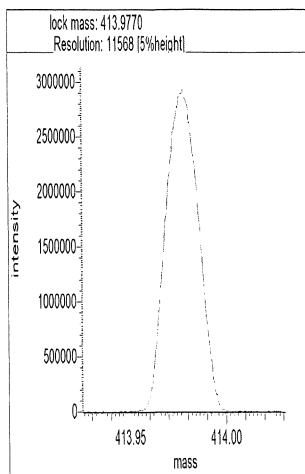


Segment 4

Lock mass 413.9770 [m/z] Resolution: 11568 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 11348 [5%height]

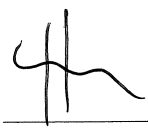
Ref. mass 463.9738 [m/z] Resolution: 11464 [5%height]



Reports

09:34:43: Peak matching procedure started
09:34:44:
09:34:44: Reference mass: 168.98827
09:34:45: Sample mass: 214.0
09:34:45:
09:34:46: Finding reference mass
09:34:47: Finding sample mass
09:34:47:
09:34:53: [1] 213.9898 amu, mean: 213.9898
09:34:56: [2] 213.9897 amu, mean: 213.9897 SD: 0.07 mmu or: 0.30 ppm
09:34:59: [3] 213.9900 amu, mean: 213.9898 SD: 0.14 mmu or: 0.67 ppm
09:35:03: [4] 213.9899 amu, mean: 213.9898 SD: 0.13 mmu or: 0.59 ppm
09:35:03:
09:35:03: Stop requested. Please wait for procedure to finish.
09:35:03:
09:35:06:
09:35:06: Peakmatching stopped

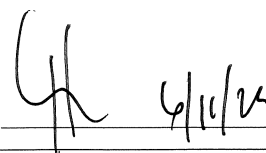
Signature

 6/11/24

Reports

09:35:18: Peak matching procedure started
09:35:18:
09:35:19: Reference mass: 213.98975
09:35:19: Sample mass: 264.0
09:35:20:
09:35:20: Finding reference mass
09:35:21: Finding sample mass
09:35:22:
09:35:27: [1] 263.9866 amu, mean: 263.9866
09:35:31: [2] 263.9866 amu, mean: 263.9866 SD: 0.01 mmu or: 0.04 ppm
09:35:34: [3] 263.9867 amu, mean: 263.9867 SD: 0.06 mmu or: 0.23 ppm
09:35:37: [4] 263.9861 amu, mean: 263.9865 SD: 0.27 mmu or: 1.01 ppm
09:35:38:
09:35:38: Stop requested. Please wait for procedure to finish.
09:35:38:
09:35:40:
09:35:41: Peakmatching stopped

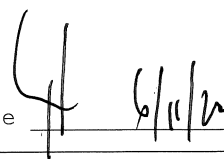
Signature

Handwritten signature in black ink, appearing to be 'GH' followed by a date '6/11/24'.

Reports

09:35:54: Peak matching procedure started
09:35:54:
09:35:55: Reference mass: 263.98656
09:35:55: Sample mass: 314.0
09:35:56:
09:35:56: Finding reference mass
09:35:57: Finding sample mass
09:35:58:
09:36:03: [1] 313.9838 amu, mean: 313.9838
09:36:07: [2] 313.9835 amu, mean: 313.9836 SD: 0.24 mmu or: 0.76 ppm
09:36:10: [3] 313.9831 amu, mean: 313.9835 SD: 0.34 mmu or: 1.07 ppm
09:36:13: [4] 313.9837 amu, mean: 313.9835 SD: 0.31 mmu or: 0.97 ppm
09:36:14:
09:36:14: Stop requested. Please wait for procedure to finish.
09:36:14:
09:36:16:
09:36:17: Peakmatching stopped

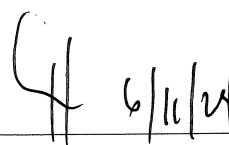
Signature



Reports

09:36:28: Peak matching procedure started
09:36:29:
09:36:29: Reference mass: 313.98336
09:36:30: Sample mass: 376.0
09:36:30:
09:36:31: Finding reference mass
09:36:32: Finding sample mass
09:36:32:
09:36:38: [1] 375.9798 amu, mean: 375.9798
09:36:41: [2] 375.9796 amu, mean: 375.9797 SD: 0.14 mmu or: 0.38 ppm
09:36:45: [3] 375.9801 amu, mean: 375.9798 SD: 0.27 mmu or: 0.71 ppm
09:36:48: [4] 375.9802 amu, mean: 375.9799 SD: 0.29 mmu or: 0.78 ppm
09:36:48:
09:36:48: Stop requested. Please wait for procedure to finish.
09:36:48:
09:36:52:
09:36:52: Peakmatching stopped

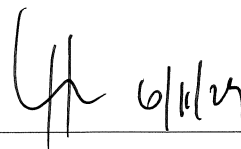
Signature



Reports

09:36:28: Peak matching procedure started
09:36:29:
09:36:29: Reference mass: 313.98336
09:36:30: Sample mass: 376.0
09:36:30:
09:36:31: Finding reference mass
09:36:32: Finding sample mass
09:36:32:
09:36:38: [1] 375.9798 amu, mean: 375.9798
09:36:41: [2] 375.9796 amu, mean: 375.9797 SD: 0.14 mmu or: 0.38 ppm
09:36:45: [3] 375.9801 amu, mean: 375.9798 SD: 0.27 mmu or: 0.71 ppm
09:36:48: [4] 375.9802 amu, mean: 375.9799 SD: 0.29 mmu or: 0.78 ppm
09:36:48:
09:36:48: Stop requested. Please wait for procedure to finish.
09:36:48:
09:36:52:
09:36:52: Peakmatching stopped

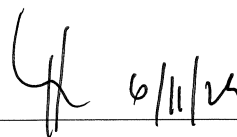
Signature



Reports

09:37:04: Peak matching procedure started
09:37:05:
09:37:05: Reference mass: 375.98017
09:37:06: Sample mass: 414.0
09:37:06:
09:37:07: Finding reference mass
09:37:08: Finding sample mass
09:37:08:
09:37:14: [1] 413.9777 amu, mean: 413.9777
09:37:17: [2] 413.9773 amu, mean: 413.9775 SD: 0.22 mmu or: 0.53 ppm
09:37:20: [3] 413.9777 amu, mean: 413.9776 SD: 0.20 mmu or: 0.47 ppm
09:37:24: [4] 413.9771 amu, mean: 413.9775 SD: 0.27 mmu or: 0.65 ppm
09:37:24:
09:37:24: Stop requested. Please wait for procedure to finish.
09:37:24:
09:37:27:
09:37:27: Peakmatching stopped

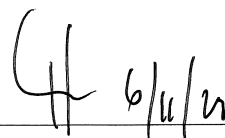
Signature

Handwritten signature in black ink, appearing to be 'GK' followed by the date '6/11/24'.

Reports

09:37:39: Peak matching procedure started
09:37:39:
09:37:40: Reference mass: 413.97698
09:37:40: Sample mass: 464.0
09:37:41:
09:37:41: Finding reference mass
09:37:42: Finding sample mass
09:37:43:
09:37:48: [1] 463.9734 amu, mean: 463.9734
09:37:52: [2] 463.9741 amu, mean: 463.9738 SD: 0.48 mmu or: 1.04 ppm
09:37:55: [3] 463.9740 amu, mean: 463.9738 SD: 0.36 mmu or: 0.79 ppm
09:37:58: [4] 463.9742 amu, mean: 463.9739 SD: 0.35 mmu or: 0.75 ppm
09:37:58:
09:37:58: Stop requested. Please wait for procedure to finish.
09:37:58:
09:38:01:
09:38:02: Peakmatching stopped

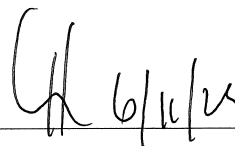
Signature

Handwritten signature in black ink, appearing to be 'Gf' followed by a date '6/11/24'.

Reports

09:38:11: Peak matching procedure started
09:38:12:
09:38:12: Reference mass: 463.97378
09:38:13: Sample mass: 502.0
09:38:13:
09:38:14: Finding reference mass
09:38:15: Finding sample mass
09:38:15:
09:38:21: [1] 501.9710 amu, mean: 501.9710
09:38:24: [2] 501.9708 amu, mean: 501.9709 SD: 0.13 mmu or: 0.26 ppm
09:38:27: [3] 501.9707 amu, mean: 501.9708 SD: 0.15 mmu or: 0.30 ppm
09:38:31: [4] 501.9712 amu, mean: 501.9709 SD: 0.19 mmu or: 0.39 ppm
09:38:31:
09:38:31: Stop requested. Please wait for procedure to finish.
09:38:31:
09:38:34:
09:38:34: Peakmatching stopped

Signature

Handwritten signature in black ink, appearing to be 'GH 6/11/24'.

Resolution Check Report (DFS SN: 3190)

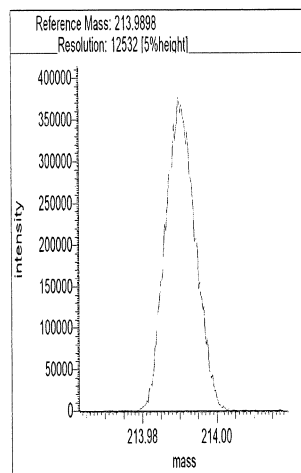
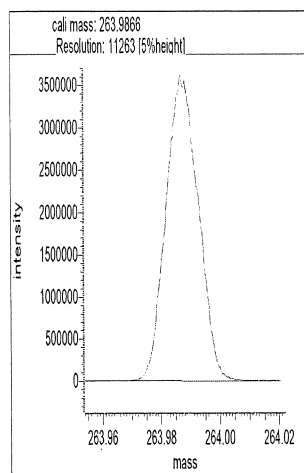
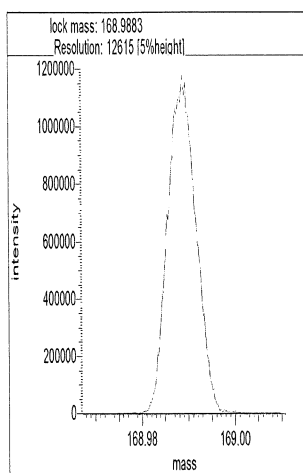
Date: 11 Jun 2024 21:10
MID Experiment: ResCheck_1668
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43KnxPCB.lua
Status: RESOLUTION PASSED

Segment 1

Lock mass 168.9883 [m/z] Resolution: 12615 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 11263 [5%height]

Ref. mass 213.9898 [m/z] Resolution: 12532 [5%height]



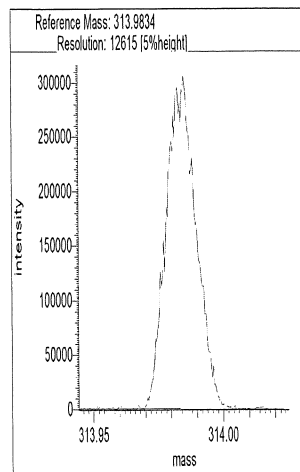
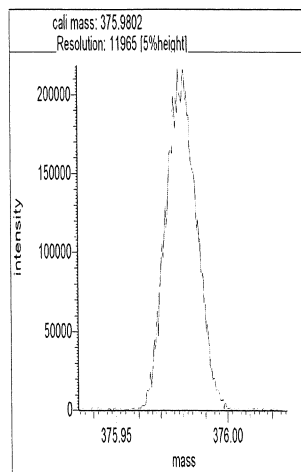
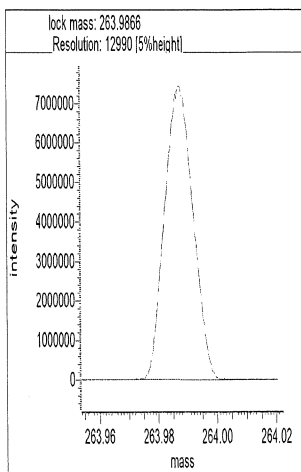
Segment 2

Lock mass 263.9866 [m/z] Resolution: 12990 [5%height]

Cali. mass 375.9802 [m/z] Resolution: 11965 [5%height]

Ref. mass 313.9834 [m/z] Resolution: 12615 [5%height]

d2240611r2

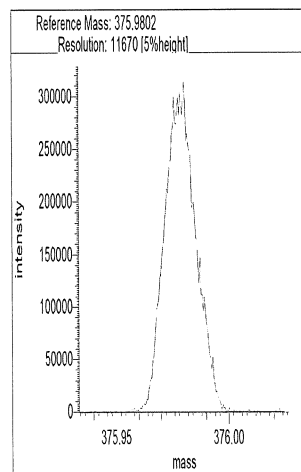
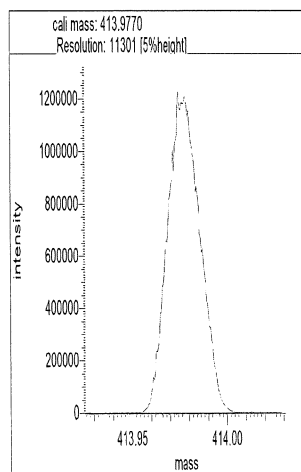
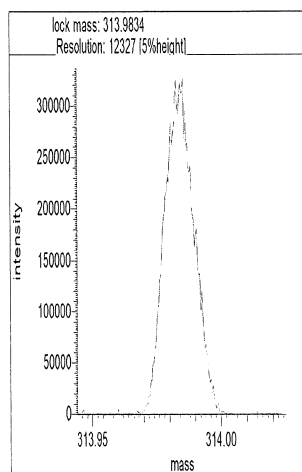


Segment 3

Lock mass 313.9834 [m/z] Resolution: 12327 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 11301 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 11670 [5%height]

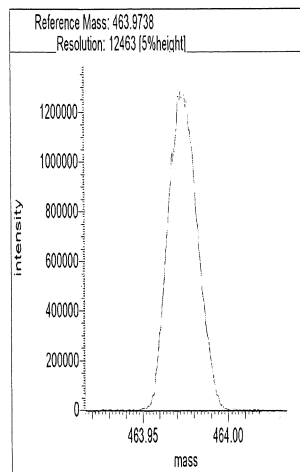
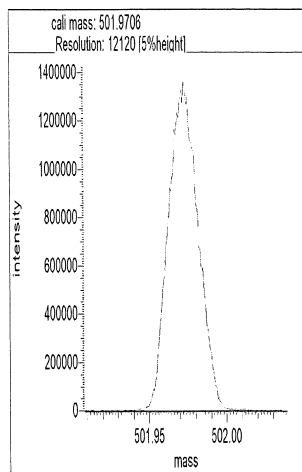
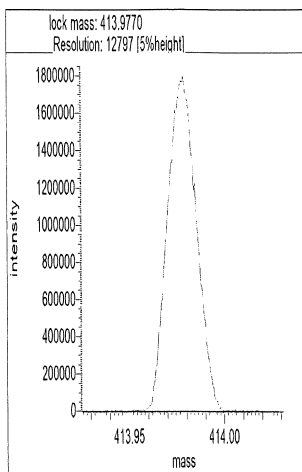


Segment 4

Lock mass 413.9770 [m/z] Resolution: 12797 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 12120 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 12463 [5%height]



Reports

21:19:07: Peak matching procedure started
21:19:08:
21:19:08: Reference mass: 168.98827
21:19:09: Sample mass: 214.0
21:19:09:
21:19:10: Finding reference mass
21:19:11: Finding sample mass
21:19:11:
21:19:17: [1] 213.9897 amu, mean: 213.9897 SD: 0.29 mmu or: 1.36 ppm
21:19:21: [2] 213.9893 amu, mean: 213.9895 SD: 0.27 mmu or: 1.28 ppm
21:19:24: [3] 213.9892 amu, mean: 213.9894 SD: 0.36 mmu or: 1.67 ppm
21:19:27: [4] 213.9889 amu, mean: 213.9893
21:19:28:
21:19:28: Stop requested. Please wait for procedure to finish.
21:19:28:
21:19:30:
21:19:31: Peakmatching stopped

Signature

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Reports

21:19:45: Peak matching procedure started
21:19:46:
21:19:46: Reference mass: 213.98975
21:19:47: Sample mass: 264.0
21:19:47:
21:19:48: Finding reference mass
21:19:49: Finding sample mass
21:19:49:
21:19:55: [1] 263.9860 amu, mean: 263.9860
21:19:59: [2] 263.9861 amu, mean: 263.9861 SD: 0.05 mmu or: 0.18 ppm
21:20:02: [3] 263.9865 amu, mean: 263.9862 SD: 0.28 mmu or: 1.05 ppm
21:20:05: [4] 263.9863 amu, mean: 263.9863 SD: 0.23 mmu or: 0.88 ppm
21:20:06:
21:20:06: Stop requested. Please wait for procedure to finish.
21:20:06:
21:20:08:
21:20:09: Peakmatching stopped

Signature

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Reports

21:20:23: Peak matching procedure started
21:20:23:
21:20:24: Reference mass: 263.98656
21:20:24: Sample mass: 314.0
21:20:25:
21:20:25: Finding reference mass
21:20:26: Finding sample mass
21:20:27:
21:20:32: [1] 313.9827 amu, mean: 313.9827
21:20:36: [2] 313.9827 amu, mean: 313.9827 SD: 0.03 mmu or: 0.10 ppm
21:20:39: [3] 313.9827 amu, mean: 313.9827 SD: 0.04 mmu or: 0.11 ppm
21:20:42: [4] 313.9835 amu, mean: 313.9829 SD: 0.42 mmu or: 1.34 ppm
21:20:43:
21:20:43: Stop requested. Please wait for procedure to finish.
21:20:43:
21:20:45:
21:20:46: Peakmatching stopped

Signature

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Reports

21:20:59: Peak matching procedure started
21:21:00:
21:21:00: Reference mass: 313.98336
21:21:01: Sample mass: 376.0
21:21:01:
21:21:02: Finding reference mass
21:21:03: Finding sample mass
21:21:04:
21:21:09: [1] 375.9789 amu, mean: 375.9789
21:21:13: [2] 375.9802 amu, mean: 375.9796 SD: 0.94 mmu or: 2.51 ppm
21:21:16: [3] 375.9798 amu, mean: 375.9797 SD: 0.68 mmu or: 1.82 ppm
21:21:19: [4] 375.9792 amu, mean: 375.9795 SD: 0.61 mmu or: 1.62 ppm
21:21:20:
21:21:20: Stop requested. Please wait for procedure to finish.
21:21:20:
21:21:22: [5] 375.9787 amu, mean: 375.9794 SD: 0.64 mmu or: 1.69 ppm
21:21:24:
21:21:24: Peakmatching stopped

Signature

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Reports

21:20:59: Peak matching procedure started
21:21:00:
21:21:00: Reference mass: 313.98336
21:21:01: Sample mass: 376.0
21:21:01:
21:21:02: Finding reference mass
21:21:03: Finding sample mass
21:21:04:
21:21:09: [1] 375.9789 amu, mean: 375.9789
21:21:13: [2] 375.9802 amu, mean: 375.9796 SD: 0.94 mmu or: 2.51 ppm
21:21:16: [3] 375.9798 amu, mean: 375.9797 SD: 0.68 mmu or: 1.82 ppm
21:21:19: [4] 375.9792 amu, mean: 375.9795 SD: 0.61 mmu or: 1.62 ppm
21:21:20:
21:21:20: Stop requested. Please wait for procedure to finish.
21:21:20:
21:21:22: [5] 375.9787 amu, mean: 375.9794 SD: 0.64 mmu or: 1.69 ppm
21:21:24:
21:21:24: Peakmatching stopped


Signature

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Reports

21:21:42: Peak matching procedure started
21:21:43:
21:21:43: Reference mass: 375.98017
21:21:44: Sample mass: 414.0
21:21:44:
21:21:45: Finding reference mass
21:21:46: Finding sample mass
21:21:46:
21:21:52: [1] 413.9763 amu, mean: 413.9763
21:21:56: [2] 413.9778 amu, mean: 413.9771 SD: 1.06 mmu or: 2.55 ppm
21:21:59: [3] 413.9780 amu, mean: 413.9774 SD: 0.92 mmu or: 2.23 ppm
21:22:02: [4] 413.9766 amu, mean: 413.9772 SD: 0.86 mmu or: 2.09 ppm
21:22:02:
21:22:02: Stop requested. Please wait for procedure to finish.
21:22:02:
21:22:05:
21:22:05: Peakmatching stopped


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Reports

21:22:19: Peak matching procedure started
21:22:20:
21:22:20: Reference mass: 413.97698
21:22:21: Sample mass: 464.0
21:22:21:
21:22:22: Finding reference mass
21:22:23: Finding sample mass
21:22:23:
21:22:29: [1] 463.9733 amu, mean: 463.9733
21:22:32: [2] 463.9737 amu, mean: 463.9735 SD: 0.28 mmu or: 0.60 ppm
21:22:36: [3] 463.9740 amu, mean: 463.9737 SD: 0.35 mmu or: 0.75 ppm
21:22:39: [4] 463.9737 amu, mean: 463.9737 SD: 0.29 mmu or: 0.62 ppm
21:22:39:
21:22:39: Stop requested. Please wait for procedure to finish.
21:22:39:
21:22:42:
21:22:42: Peakmatching stopped


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Reports

21:22:55: Peak matching procedure started
21:22:55:
21:22:56: Reference mass: 463.97378
21:22:56: Sample mass: 502.0
21:22:57:
21:22:57: Finding reference mass
21:22:58: Finding sample mass
21:22:59:
21:23:04: [1] 501.9703 amu, mean: 501.9703
21:23:08: [2] 501.9705 amu, mean: 501.9704 SD: 0.18 mmu or: 0.37 ppm
21:23:11: [3] 501.9699 amu, mean: 501.9702 SD: 0.29 mmu or: 0.57 ppm
21:23:14: [4] 501.9700 amu, mean: 501.9702 SD: 0.26 mmu or: 0.51 ppm
21:23:14:
21:23:14: Stop requested. Please wait for procedure to finish.
21:23:14:
21:23:17:
21:23:18: Peakmatching stopped

Signature

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Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Lims ID: WDMCCV
Client ID:
Sample Type: WDMCCV
Inject. Date: 11-Jun-2024 09:41:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-001
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub2

Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 11-Jun-2024 16:30:42 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last Ical File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1603

First Level Reviewer: P0IK

Date: 11-Jun-2024 16:30:42

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					151.8	151.8	0.1599	0.1599		
D PCB-1L	11:34	14590705	3.22	1.6108	96.0	96.0	0.2496	0.2496	95.97	
D PCB-3L	13:43	14163784	3.23	1.5891	94.4	94.4	0.2530	0.2530	94.44	
PCB-1	11:35	8960593	3.17	1.2191	50.4	50.4	0.1399	0.1399	101	
PCB-2	13:34	8700698	3.17	1.1805	51.3	51.3	0.1619	0.1619	103	
PCB-3	13:44	8673922	3.18	1.2206	50.2	50.2	0.1780	0.1780	100	
S Total Dichlorobiphenyls					608.5	608.5	0.0378	0.0378		
D PCB-4L	13:59	6060992	1.60	0.6475	99.2	99.2	0.1017	0.1017	99.17	
* PCB-9L	15:56	9437918	1.63		100.0	100.0				
\$ PCB-8L	16:46	4518760	1.63	1.2066	47.1	47.1	0.0680	0.0680	94.10	
D PCB-15L	19:50	9857706	1.63	1.0789	96.8	96.8	0.0611	0.0611	96.81	
PCB-4	14:00	3877809	1.57	1.2818	49.9	49.9	0.0452	0.0452	99.83	
PCB-10	14:10	5446339	1.60	1.3149	52.0	52.0	0.0396	0.0396	104	
PCB-9	15:57	5797615	1.60	1.4224	51.2	51.2	0.0366	0.0366	102	
PCB-7	16:07	5637896	1.57	1.4134	50.1	50.1	0.0368	0.0368	100	
PCB-6	16:22	6204187	1.59	1.5421	50.5	50.5	0.0337	0.0337	101	
PCB-5	16:40	5421072	1.57	1.3395	50.8	50.8	0.0388	0.0388	102	
PCB-8	16:47	6485523	1.60	1.5889	51.3	51.3	0.0327	0.0327	103	
PCB-14	18:24	5611728	1.65	1.4025	50.3	50.3	0.0371	0.0371	101	
PCB-11	19:14	5143157	1.60	1.2951	49.9	49.9	0.0402	0.0402	99.79	
PCB-12	19:32	10814631	1.58	1.3358	101.7	101.7	0.0389	0.0389	102	
PCB-13 (C12)	19:32	10814631	1.58	1.3358	101.7	101.7	0.0389	0.0389	102	
PCB-15	19:51	6445169	1.58	1.2903	50.7	50.7	0.0366	0.0366	101	
S Total Trichlorobiphenyls					1206.6	1206.6	0.3503	0.3503		
D PCB-19L	17:04	3967026	1.05	0.6285	98.5	98.5	0.5791	0.5791	98.49	
* PCB-32L	20:18	6408342	1.12		100.0	100.0				
* PCB-31L	22:34	14900427	1.05		100.0	100.0				
\$ PCB-28L	22:51	7286302	1.03	1.0494	46.6	46.6	0.1087	0.1087	93.20	
D PCB-37L	26:50	13127857	1.06	0.8749	100.7	100.7	0.1304	0.1304	101	
PCB-19	17:05	2558893	1.06	1.2809	50.4	50.4	0.0424	0.0424	101	
PCB-18	18:55	7109745	1.04	1.7652	101.5	101.5	0.0308	0.0308	102	
PCB-30 (C18)	18:55	7109745	1.04	1.7652	101.5	101.5	0.0308	0.0308	102	
PCB-17	19:21	2476627	1.02	1.2430	50.2	50.2	0.0437	0.0437	100	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:34	3810628	1.06	1.8327	52.4	52.4	0.0296	0.0296	105	
PCB-24	19:42	3414688	1.04	1.6777	51.3	51.3	0.0324	0.0324	103	
PCB-16	19:49	2382186	1.08	1.1286	53.2	53.2	0.0481	0.0481	106	
PCB-32	20:19	3749976	1.05	1.8324	51.6	51.6	0.0296	0.0296	103	
PCB-34	21:35	7617110	1.07	1.1277	51.5	51.5	0.5239	0.5239	103	
PCB-23	21:43	7038733	1.04	1.0813	49.6	49.6	0.5464	0.5464	99.17	
PCB-26	22:02	14682384	1.04	1.1255	99.4	99.4	0.5250	0.5250	99.37	
PCB-29 (C26)	22:02	14682384	1.04	1.1255	99.4	99.4	0.5250	0.5250	99.37	
PCB-25	22:16	8523435	1.04	1.2728	51.0	51.0	0.4642	0.4642	102	
PCB-31	22:35	7627519	1.04	1.1532	50.4	50.4	0.5123	0.5123	101	
PCB-20	22:53	15235985	1.05	1.1718	99.0	99.0	0.5042	0.5042	99.04	
PCB-28 (C20)	22:53	15235985	1.05	1.1718	99.0	99.0	0.5042	0.5042	99.04	
PCB-21	23:03	14118698	1.05	1.0746	100.1	100.1	0.5498	0.5498	100	M
PCB-33 (C21)	23:03	14118698	1.05	1.0746	100.1	100.1	0.5498	0.5498	100	M
PCB-22	23:30	7869207	1.04	1.1932	50.2	50.2	0.4951	0.4951	100	
PCB-36	25:04	7189679	1.09	1.1071	49.5	49.5	0.5337	0.5337	98.94	
PCB-39	25:25	7551433	1.03	1.1581	49.7	49.7	0.5102	0.5102	99.34	
PCB-38	26:00	6944570	1.05	1.0843	48.8	48.8	0.5449	0.5449	97.57	
PCB-35	26:27	7297768	1.06	1.1297	49.2	49.2	0.5230	0.5230	98.42	
PCB-37	26:52	7161390	1.02	1.1435	47.7	47.7	0.5167	0.5167	95.41	
S Total Tetrachlorobiphenyls					2077.0	2077.0	0.5447	0.5447		
D PCB-54L	20:08	3700106	0.80	0.5562	103.8	103.8	0.0175	0.0175	104	
* PCB-52L	24:41	7882495	0.80		100.0	100.0				
\$ PCB-79L	32:35	4828302	0.81	1.0018	49.0	49.0	0.3997	0.3997	98.06	
D PCB-81L	33:35	9639052	0.80	1.2470	98.1	98.1	0.3516	0.3516	98.07	
D PCB-77L	34:09	10019757	0.80	1.3212	96.2	96.2	0.3318	0.3318	96.21	
PCB-54	20:10	2364232	0.79	1.2733	50.2	50.2	0.0219	0.0219	100	
PCB-50	22:19	8349341	0.80	0.8578	99.0	99.0	0.7008	0.7008	99.03	
PCB-53 (C50)	22:19	8349341	0.80	0.8578	99.0	99.0	0.7008	0.7008	99.03	
PCB-45	23:03	8155297	0.80	0.8264	100.4	100.4	0.7274	0.7274	100	M
PCB-51 (C45)	23:03	8155297	0.80	0.8264	100.4	100.4	0.7274	0.7274	100	M
PCB-46	23:18	3492198	0.80	0.7101	50.0	50.0	0.8466	0.8466	100	
PCB-52	24:42	4558218	0.79	0.9194	50.4	50.4	0.6538	0.6538	101	
PCB-43	24:51	10125216	0.81	1.0333	99.7	99.7	0.5818	0.5818	99.69	M
PCB-73 (C43)	24:51	10125216	0.81	1.0333	99.7	99.7	0.5818	0.5818	99.69	M
PCB-49	25:08	10317600	0.81	1.0685	98.2	98.2	0.5626	0.5626	98.23	
PCB-69 (C49)	25:08	10317600	0.81	1.0685	98.2	98.2	0.5626	0.5626	98.23	
PCB-48	25:28	4106672	0.81	0.8399	49.7	49.7	0.7158	0.7158	99.49	
PCB-44	25:43	14051002	0.80	0.9731	146.9	146.9	0.6178	0.6178	97.93	
PCB-47 (C44)	25:43	14051002	0.80	0.9731	146.9	146.9	0.6178	0.6178	97.93	
PCB-65 (C44)	25:43	14051002	0.80	0.9731	146.9	146.9	0.6178	0.6178	97.93	
PCB-59	26:01	16786150	0.78	1.1853	144.1	144.1	0.5072	0.5072	96.06	
PCB-62 (C59)	26:01	16786150	0.78	1.1853	144.1	144.1	0.5072	0.5072	96.06	
PCB-75 (C59)	26:01	16786150	0.78	1.1853	144.1	144.1	0.5072	0.5072	96.06	
PCB-42	26:13	4132735	0.82	0.8097	51.9	51.9	0.7425	0.7425	104	
PCB-40	26:43	12816635	0.78	0.8863	147.1	147.1	0.6783	0.6783	98.07	M
PCB-41 (C40)	26:43	12816635	0.78	0.8863	147.1	147.1	0.6783	0.6783	98.07	M
PCB-71 (C40)	26:43	12816635	0.78	0.8863	147.1	147.1	0.6783	0.6783	98.07	M
PCB-64	26:56	5705779	0.82	1.1776	49.3	49.3	0.5105	0.5105	98.59	
PCB-72	27:46	5409620	0.81	1.0943	50.3	50.3	0.5494	0.5494	101	
PCB-68	28:03	6165583	0.79	1.2533	50.0	50.0	0.4797	0.4797	100	
PCB-57	28:28	5504885	0.78	1.0818	51.8	51.8	0.5557	0.5557	104	
PCB-58	28:42	6796882	0.80	1.3253	52.2	52.2	0.4536	0.4536	104	
PCB-67	28:52	6931863	0.79	1.4230	49.6	49.6	0.4224	0.4224	99.11	
PCB-63	29:08	5654752	0.80	1.1240	51.2	51.2	0.5349	0.5349	102	
PCB-61	29:28	24177932	0.79	1.2612	195.0	195.0	0.4766	0.4766	97.51	
PCB-70 (C61)	29:28	24177932	0.79	1.2612	195.0	195.0	0.4766	0.4766	97.51	
PCB-74 (C61)	29:28	24177932	0.79	1.2612	195.0	195.0	0.4766	0.4766	97.51	
PCB-76 (C61)	29:28	24177932	0.79	1.2612	195.0	195.0	0.4766	0.4766	97.51	
PCB-66	29:48	6422270	0.78	1.2583	51.9	51.9	0.4778	0.4778	104	
PCB-55	29:58	6482955	0.80	1.3236	49.8	49.8	0.4542	0.4542	99.66	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:28	6027624	0.78	1.2334	49.7	49.7	0.4874	0.4874	99.44	
PCB-60	30:41	5496375	0.80	1.1230	49.8	49.8	0.5353	0.5353	99.58	
PCB-80	31:05	6491668	0.79	1.3243	49.9	49.9	0.4540	0.4540	99.74	
PCB-79	32:36	6679254	0.79	1.4368	47.3	47.3	0.4184	0.4184	94.59	
PCB-78	33:09	5142965	0.73	1.1618	45.0	45.0	0.5174	0.5174	90.07	
PCB-81	33:36	4981930	0.77	1.0802	47.8	47.8	0.5523	0.5523	95.69	
PCB-77	34:10	5273558	0.78	1.0836	48.6	48.6	0.5591	0.5591	97.14	
S Total Pentachlorobiphenyls					2265.0	2265.0	0.3670	0.3670		
D PCB-104L	25:37	6941648	1.61	1.2161	102.9	102.9	0.0363	0.0363	103	
\$ PCB-95L	28:35	2444996	1.64	0.7218	48.8	48.8	0.0450	0.0450	97.59	
* PCB-101L	31:31	5549238	1.60		100.0	100.0				
\$ PCB-111L	34:12	3599377	1.62	1.3699	47.3	47.3	0.0322	0.0322	94.70	
D PCB-123L	36:09	9631374	1.54	0.9731	98.8	98.8	1.119	1.119	98.79	
D PCB-118L	36:28	10416099	1.57	1.0102	102.9	102.9	1.078	1.078	103	
D PCB-114L	37:00	10084675	1.60	0.9949	101.2	101.2	1.095	1.095	101	
D PCB-105L	37:39	9585673	1.59	0.9514	100.6	100.6	1.145	1.145	101	
* PCB-127L	39:07	10018811	1.59		100.0	100.0				
D PCB-126L	40:44	9590471	1.57	0.9439	101.4	101.4	1.154	1.154	101	
PCB-104	25:38	3534425	1.59	1.0087	50.5	50.5	0.0431	0.0431	101	
PCB-96	26:01	3698684	1.59	1.0940	48.7	48.7	0.0397	0.0397	97.41	
PCB-103	27:56	2994811	1.59	0.8741	49.4	49.4	0.0497	0.0497	98.71	
PCB-94	28:10	2584072	1.62	0.7640	48.7	48.7	0.0569	0.0569	97.45	
PCB-95	28:36	2820467	1.57	0.8033	50.6	50.6	0.0541	0.0541	101	
PCB-93	28:49	5684362	1.58	0.8429	97.2	97.2	0.0515	0.0515	97.15	
PCB-100 (C93)	28:49	5684362	1.58	0.8429	97.2	97.2	0.0515	0.0515	97.15	
PCB-98	28:58	5676472	1.66	0.8262	99.0	99.0	0.0526	0.0526	98.98	
PCB-102 (C98)	28:58	5676472	1.66	0.8262	99.0	99.0	0.0526	0.0526	98.98	
PCB-88	29:28	5563928	1.59	0.8013	100.0	100.0	0.0542	0.0542	100	
PCB-91 (C88)	29:28	5563928	1.59	0.8013	100.0	100.0	0.0542	0.0542	100	
PCB-84	29:41	2488101	1.66	0.7299	49.1	49.1	0.0595	0.0595	98.21	
PCB-89	30:10	2656760	1.55	0.7798	49.1	49.1	0.0557	0.0557	98.16	
PCB-121	30:34	4519268	1.60	1.2964	50.2	50.2	0.0335	0.0335	100	
PCB-92	30:57	2936341	1.59	0.8546	49.5	49.5	0.0508	0.0508	99.00	
PCB-90	31:31	9740608	1.55	0.9550	146.9	146.9	0.0455	0.0455	97.96	
PCB-101 (C90)	31:31	9740608	1.55	0.9550	146.9	146.9	0.0455	0.0455	97.96	
PCB-113 (C90)	31:31	9740608	1.55	0.9550	146.9	146.9	0.0455	0.0455	97.96	
PCB-83	32:06	5861804	1.57	0.8385	100.7	100.7	0.0518	0.0518	101	
PCB-99 (C83)	32:06	5861804	1.57	0.8385	100.7	100.7	0.0518	0.0518	101	
PCB-112	32:13	4745418	1.59	1.4111	48.4	48.4	0.0308	0.0308	96.89	
PCB-86	32:36	20885451	1.58	1.0473	287.3	287.3	0.0415	0.0415	95.76	M
PCB-87 (C86)	32:36	20885451	1.58	1.0473	287.3	287.3	0.0415	0.0415	95.76	M
PCB-97 (C86)	32:36	20885451	1.58	1.0473	287.3	287.3	0.0415	0.0415	95.76	M
PCB-109 (C86)	32:36	20885451	1.58	1.0473	287.3	287.3	0.0415	0.0415	95.76	M
PCB-119 (C86)	32:36	20885451	1.58	1.0473	287.3	287.3	0.0415	0.0415	95.76	M
PCB-125 (C86)	32:36	20885451	1.58	1.0473	287.3	287.3	0.0415	0.0415	95.76	M
PCB-85	33:19	10631919	1.57	1.0408	147.2	147.2	0.0417	0.0417	98.11	
PCB-116 (C85)	33:19	10631919	1.57	1.0408	147.2	147.2	0.0417	0.0417	98.11	
PCB-117 (C85)	33:19	10631919	1.57	1.0408	147.2	147.2	0.0417	0.0417	98.11	
PCB-110	33:32	8138495	1.58	1.1919	98.4	98.4	0.0365	0.0365	98.37	
PCB-115 (C110)	33:32	8138495	1.58	1.1919	98.4	98.4	0.0365	0.0365	98.37	
PCB-82	33:49	2864635	1.60	0.8303	49.7	49.7	0.0523	0.0523	99.40	
PCB-111	34:13	4160715	1.58	1.2125	49.4	49.4	0.0358	0.0358	98.87	
PCB-120	34:41	4989888	1.53	1.4762	48.7	48.7	0.0294	0.0294	97.39	
PCB-108	35:49	10771667	1.57	1.1405	95.8	95.8	1.015	1.015	95.77	
PCB-124 (C108)	35:49	10771667	1.57	1.1405	95.8	95.8	1.015	1.015	95.77	
PCB-107	36:03	5933759	1.44	1.2121	49.6	49.6	0.9548	0.9548	99.28	
PCB-123	36:10	5145423	1.68	1.0722	49.8	49.8	1.075	1.075	99.65	
PCB-106	36:17	5393611	1.57	1.0839	50.5	50.5	1.068	1.068	101	
PCB-118	36:30	5950597	1.62	1.2055	47.4	47.4	0.9107	0.9107	94.78	
PCB-122	36:50	4779194	1.59	0.9567	50.7	50.7	1.210	1.210	101	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:01	5380679	1.58	1.0842	49.2	49.2	1.036	1.036	98.43	
PCB-105	37:40	5708916	1.49	1.1879	50.1	50.1	0.997	0.997	100	
PCB-127	39:09	5729063	1.56	1.1394	51.0	51.0	1.016	1.016	102	
PCB-126	40:45	5500361	1.57	1.0976	52.3	52.3	1.129	1.129	105	
S Total Hexachlorobiphenyls					2078.1	2078.1	0.3363	0.3363		
D PCB-155L	31:17	6420632	1.28	1.0851	106.6	106.6	0.0165	0.0165	107	
\$ PCB-153L	38:20	3601356	1.26	0.9169	45.8	45.8	0.0662	0.0662	91.52	
* PCB-138L	39:35	6972316	1.26		100.0	100.0				
D PCB-167L	42:35	8729342	1.27	1.2572	99.6	99.6	0.0487	0.0487	99.58	
D PCB-156L	43:44	16906653	1.27	1.2106	200.3	200.3	0.0506	0.0506	100	
D PCB-157L (C156L)	43:44	16906653	1.27	1.2106	200.3	200.3	0.0506	0.0506	100	
D PCB-169L	46:58	8697907	1.28	1.2439	100.3	100.3	0.0492	0.0492	100	
PCB-155	31:18	3053729	1.26	0.9444	50.4	50.4	0.0158	0.0158	101	
PCB-152	31:30	3042225	1.25	0.9895	47.9	47.9	0.0151	0.0151	95.77	
PCB-150	31:40	3176026	1.27	1.0132	48.8	48.8	0.0147	0.0147	97.64	
PCB-136	32:02	3174952	1.24	1.0116	48.9	48.9	0.0147	0.0147	97.76	
PCB-145	32:20	3054062	1.27	0.9685	49.1	49.1	0.0154	0.0154	98.23	
PCB-148	33:50	2421258	1.27	0.7603	49.6	49.6	0.0196	0.0196	99.20	
PCB-135	34:25	4561430	1.25	0.7256	97.9	97.9	0.0205	0.0205	97.91	M
PCB-151 (C135)	34:25	4561430	1.25	0.7256	97.9	97.9	0.0205	0.0205	97.91	M
PCB-154	34:41	2575492	1.23	0.8129	49.3	49.3	0.0183	0.0183	98.69	
PCB-144	34:59	2517777	1.28	0.7852	49.9	49.9	0.0190	0.0190	99.88	
PCB-147	35:20	8314053	1.28	0.8950	108.2	108.2	0.4875	0.4875	108	M
PCB-149 (C147)	35:20	8314053	1.28	0.8950	108.2	108.2	0.4875	0.4875	108	M
PCB-134	35:39	6632989	1.27	0.7967	97.0	97.0	0.5476	0.5476	97.00	
PCB-143 (C134)	35:39	6632989	1.27	0.7967	97.0	97.0	0.5476	0.5476	97.00	
PCB-139	35:57	7328753	1.27	0.8769	97.4	97.4	0.4976	0.4976	97.37	
PCB-140 (C139)	35:57	7328753	1.27	0.8769	97.4	97.4	0.4976	0.4976	97.37	
PCB-131	36:09	3176695	1.23	0.7503	49.3	49.3	0.5815	0.5815	98.65	
PCB-142	36:18	3259103	1.26	0.7507	50.6	50.6	0.5812	0.5812	101	
PCB-132	36:37	3128742	1.27	0.7489	48.7	48.7	0.5826	0.5826	97.34	
PCB-133	37:07	3405627	1.26	0.8096	49.0	49.0	0.5389	0.5389	98.02	
PCB-165	37:31	4350023	1.27	1.0247	49.5	49.5	0.4258	0.4258	98.91	
PCB-146	37:46	4175430	1.27	0.9637	50.5	50.5	0.4527	0.4527	101	
PCB-161	37:54	4693897	1.27	1.1288	48.4	48.4	0.3865	0.3865	96.89	
PCB-153	38:24	9301701	1.25	1.0938	99.1	99.1	0.3989	0.3989	99.08	
PCB-168 (C153)	38:24	9301701	1.25	1.0938	99.1	99.1	0.3989	0.3989	99.08	
PCB-141	38:34	3665920	1.26	0.8755	48.8	48.8	0.4983	0.4983	97.56	
PCB-130	38:58	2968796	1.22	0.7051	49.1	49.1	0.6188	0.6188	98.10	
PCB-137	39:12	3281307	1.28	0.7767	49.2	49.2	0.5618	0.5618	98.44	
PCB-164	39:19	4514853	1.26	1.0382	50.7	50.7	0.4202	0.4202	101	
PCB-129	39:38	15984523	1.23	0.9464	196.8	196.8	0.4610	0.4610	98.39	M
PCB-138 (C129)	39:38	15984523	1.23	0.9464	196.8	196.8	0.4610	0.4610	98.39	M
PCB-160 (C129)	39:38	15984523	1.23	0.9464	196.8	196.8	0.4610	0.4610	98.39	M
PCB-163 (C129)	39:38	15984523	1.23	0.9464	196.8	196.8	0.4610	0.4610	98.39	M
PCB-158	40:00	5514649	1.28	1.3110	49.0	49.0	0.3328	0.3328	98.01	
PCB-128	40:51	8486149	1.23	0.9829	100.6	100.6	0.4439	0.4439	101	
PCB-166 (C128)	40:51	8486149	1.23	0.9829	100.6	100.6	0.4439	0.4439	101	
PCB-159	41:51	5764778	1.30	1.3856	48.5	48.5	0.3149	0.3149	96.94	
PCB-162	42:08	5278507	1.26	1.2571	48.9	48.9	0.3471	0.3471	97.84	
PCB-167	42:37	4786358	1.25	1.1159	49.1	49.1	0.3201	0.3201	98.27	
PCB-156	43:46	9276945	1.25	1.1104	98.8	98.8	0.4836	0.4836	98.83	
PCB-157 (C156)	43:46	9276945	1.25	1.1104	98.8	98.8	0.4836	0.4836	98.83	
PCB-169	46:59	4973129	1.23	1.1628	49.2	49.2	0.3252	0.3252	98.34	
S Total Heptachlorobiphenyls					1191.1	1191.1	0.007366	0.007366		
D PCB-188L	37:00	7379206	1.09	1.3133	99.9	99.9	0.0183	0.0183	99.91	
\$ PCB-178L	40:03	2679118	1.09	1.0313	46.2	46.2	0.0233	0.0233	92.39	
* PCB-180L	45:08	5623691	1.08		100.0	100.0				
D PCB-170L	46:23	4693301	1.08	0.8362	99.8	99.8	0.0287	0.0287	99.80	
D PCB-189L	49:29	10911449	1.05	1.4414	98.2	98.2	0.4090	0.4090	98.17	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-188	37:01	4127500	1.07	1.1350	49.3	49.3	0.000429	0.000429	98.57	
PCB-179	37:22	4146700	1.05	1.4276	48.1	48.1	0.000427	0.000427	96.24	
PCB-184	37:53	4070720	1.05	1.3672	49.3	49.3	0.000446	0.000446	98.65	
PCB-176	38:14	3703716	1.05	1.2331	49.8	49.8	0.000494	0.000494	99.52	
PCB-186	38:42	4452392	1.05	1.4737	50.1	50.1	0.000414	0.000414	100	
PCB-178	40:05	2633496	1.08	0.8946	48.8	48.8	0.000681	0.000681	97.53	
PCB-175	40:42	2836097	1.06	0.9524	49.3	49.3	0.000640	0.000640	98.66	
PCB-187	40:58	3373912	1.04	1.1018	50.7	50.7	0.000553	0.000553	101	
PCB-182	41:11	2906113	1.05	0.9247	52.1	52.1	0.000659	0.000659	104	
PCB-183	41:35	5701085	1.06	0.9825	96.1	96.1	0.000620	0.000620	96.13	M
PCB-185 (C183)	41:35	5701085	1.06	0.9825	96.1	96.1	0.000620	0.000620	96.13	M
PCB-174	41:49	3034608	1.06	0.9642	52.1	52.1	0.000632	0.000632	104	M
PCB-177	42:16	2892582	1.09	0.9773	49.0	49.0	0.000624	0.000624	98.07	
PCB-181	42:38	2832791	1.06	0.9505	49.4	49.4	0.000641	0.000641	98.74	
PCB-171	42:52	5316086	1.06	0.9336	94.3	94.3	0.000653	0.000653	94.33	
PCB-173 (C171)	42:52	5316086	1.06	0.9336	94.3	94.3	0.000653	0.000653	94.33	
PCB-172	44:31	2594710	1.04	0.8519	50.5	50.5	0.000715	0.000715	101	
PCB-192	44:46	4135137	1.03	1.3459	50.9	50.9	0.000453	0.000453	102	
PCB-180	45:07	7053888	1.08	1.1676	100.1	100.1	0.000522	0.000522	100	
PCB-193 (C180)	45:07	7053888	1.08	1.1676	100.1	100.1	0.000522	0.000522	100	
PCB-191	45:30	3995449	1.05	1.2891	51.3	51.3	0.000473	0.000473	103	
PCB-170	46:24	2802829	1.06	1.1865	50.3	50.3	0.000686	0.000686	101	
PCB-190	46:56	3943966	1.06	1.3322	49.0	49.0	0.000457	0.000457	98.09	
PCB-189	49:30	5303038	1.04	0.9633	50.5	50.5	0.1435	0.1435	101	
S Total Octachlorobiphenyls					594.0	594.0	0.0672	0.0672		
D PCB-202L	42:21	5659566	0.91	0.9818	102.5	102.5	0.0208	0.0208	103	
* PCB-194L	51:36	7710972	0.91		100.0	100.0				
D PCB-205L	52:04	9107246	0.91	1.1786	100.2	100.2	0.0587	0.0587	100	
PCB-202	42:23	2991965	0.90	1.0359	51.0	51.0	0.0295	0.0295	102	
PCB-201	43:18	2786724	0.89	0.9754	50.5	50.5	0.0314	0.0314	101	
PCB-204	43:58	2879283	0.91	1.0485	48.5	48.5	0.0292	0.0292	97.04	
PCB-197	44:12	3012230	0.80	1.1458	46.5	46.5	0.0267	0.0267	92.90	
PCB-200	44:19	2833031	1.01	1.0072	49.7	49.7	0.0304	0.0304	99.40	
PCB-198	47:05	4783857	0.90	0.8698	97.2	97.2	0.0352	0.0352	97.18	
PCB-199 (C198)	47:05	4783857	0.90	0.8698	97.2	97.2	0.0352	0.0352	97.18	
PCB-196	47:45	2195825	0.87	0.7806	49.7	49.7	0.0392	0.0392	99.40	
PCB-203	47:57	2687758	0.91	0.9292	51.1	51.1	0.0329	0.0329	102	
PCB-195	49:17	3838042	0.91	0.8263	51.0	51.0	0.1858	0.1858	102	
PCB-194	51:37	4340129	0.90	0.9735	49.0	49.0	0.1577	0.1577	97.91	
PCB-205	52:05	4939605	0.93	1.0878	49.9	49.9	0.1411	0.1411	99.72	
S Total Nonachlorobiphenyls					142.5	142.5	0.2190	0.2190		
D PCB-208L	49:01	7936808	0.81	0.9576	107.5	107.5	0.2973	0.2973	107	
D PCB-206L	53:49	5746997	0.82	0.6947	107.3	107.3	0.4098	0.4098	107	
PCB-208	49:02	4347455	0.80	1.1374	48.2	48.2	0.2055	0.2055	96.31	
PCB-207	49:58	4544851	0.79	1.3756	48.3	48.3	0.2002	0.2002	96.58	
PCB-206	53:50	3535917	0.79	1.3346	46.1	46.1	0.2512	0.2512	92.20	
D PCB-209L	55:26	5961150	0.73	0.6669	115.9	115.9	0.0607	0.0607	116	
DCB Decachlorobiphenyl	55:28	3267200	0.70	1.1004	49.8	49.8	0.0359	0.0359	99.62	
S Polychlorinated biphenyls, Total					10213	10213	0.2184	0.2184		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61CV1668CS3_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\2240611c1a.d
Lims ID: WDMCCV
Client ID:
Sample Type: WDMCCV
Inject. Date: 11-Jun-2024 09:41:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-001
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub2
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 11-Jun-2024 16:30:42 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1603

First Level Reviewer: P0IK

Date: 11-Jun-2024 16:30:42

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:34	11:34	0	0.727	11134565	4546078	3082	7705	1475		
202.0766	11:34	11:34	0	0.727	3456140	1409507	1324	3310	1065	3.22(2.66-3.60)	
PCB-3L											
200.0795	13:43	13:43	0	0.861	10813282	3575930	3082	7705	1160		
202.0766	13:43	13:43	0	0.861	3350502	1099686	1324	3310	831	3.23(2.66-3.60)	
PCB-1											
188.0393	11:35	11:35	0	1.001	6810960	2758809	2799	6997	986		
190.0363	11:35	11:35	0	1.001	2149633	880950	1264	3160	697	3.17(2.66-3.60)	
PCB-2											
188.0393	13:34	13:34	0	0.988	6612268	2276654	2799	6997	813		
190.0363	13:34	13:34	0	0.988	2088430	727365	1264	3160	575	3.17(2.66-3.60)	
PCB-3											
188.0393	13:44	13:44	0	1.001	6600903	2162705	2799	6997	773		
190.0363	13:44	13:44	0	1.001	2073019	686720	1264	3160	543	3.18(2.66-3.60)	
PCB-4L											
234.0406	13:59	13:59	0	0.878	3730910	1208372	516	1290	2342		
236.0376	13:59	13:59	0	0.878	2330082	769541	206	515	3736	1.60(1.33-1.79)	
PCB-9L											
234.0406	15:56	15:56	0		5855118	1697714	516	1290	3290		
236.0376	15:56	15:56	0		3582800	1042348	206	515	5060	1.63(1.33-1.79)	
PCB-8L											
234.0406	16:46	16:46	0	1.200	2800691	775885	516	1290	1504		
236.0376	16:46	16:46	0	1.200	1718069	485030	206	515	2355	1.63(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:50	19:50	0	1.245	6112210	1492495	516	1290	2892		
236.0376	19:50	19:50	0	1.245	3745496	931002	206	515	4519	1.63(1.33-1.79)	
PCB-4											
222.0003	14:00	14:00	0	1.001	2370295	794221	183	457	4340		
223.9974	14:00	14:00	0	1.001	1507514	510396	275	687	1856	1.57(1.33-1.79)	
PCB-10											
222.0003	14:10	14:10	0	1.013	3350563	1077857	183	457	5890		
223.9974	14:10	14:10	0	1.013	2095776	664331	275	687	2416	1.60(1.33-1.79)	
PCB-9											
222.0003	15:57	15:57	0	1.141	3569001	1037077	183	457	5667		
223.9974	15:57	15:57	0	1.141	2228614	644993	275	687	2345	1.60(1.33-1.79)	
PCB-7											
222.0003	16:07	16:07	0	1.152	3445613	1003483	183	457	5484		
223.9974	16:07	16:07	0	1.152	2192283	628547	275	687	2286	1.57(1.33-1.79)	
PCB-6											
222.0003	16:22	16:22	0	1.170	3811739	1064488	183	457	5817		
223.9974	16:22	16:22	0	1.170	2392448	672553	275	687	2446	1.59(1.33-1.79)	
PCB-5											
222.0003	16:40	16:40	0	1.192	3311063	937140	183	457	5121		
223.9974	16:40	16:40	0	1.192	2110009	583362	275	687	2121	1.57(1.33-1.79)	
PCB-8											
222.0003	16:47	16:47	0	1.200	3992365	1108719	183	457	6059		
223.9974	16:47	16:47	0	1.200	2493158	691340	275	687	2514	1.60(1.33-1.79)	
PCB-14											
222.0003	18:24	18:24	0	0.928	3492637	914684	183	457	4998		
223.9974	18:24	18:24	0	0.928	2119091	559673	275	687	2035	1.65(1.33-1.79)	
PCB-11											
222.0003	19:14	19:14	0	0.970	3162193	787182	183	457	4302		
223.9974	19:14	19:14	0	0.970	1980964	497994	275	687	1811	1.60(1.33-1.79)	
PCB-12											
222.0003	19:32	19:32	0	0.985	6629466	1077462	183	457	5888		
223.9974	19:32	19:32	0	0.985	4185165	699648	275	687	2544	1.58(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:32	19:32	0	0.985	6629466	1077462	183	457	5888		
223.9974	19:32	19:32	0	0.985	4185165	699648	275	687	2544	1.58(1.33-1.79)	
PCB-15											
222.0003	19:51	19:51	0	1.001	3951493	906501	183	457	4954		
223.9974	19:51	19:51	0	1.001	2493676	568333	275	687	2067	1.58(1.33-1.79)	
PCB-19L											
268.0016	17:04	17:04	0	0.841	2029655	563346	809	2022	696		
269.9986	17:04	17:04	0	0.841	1937371	531932	1469	3672	362	1.05(0.88-1.20)	
PCB-32L											
268.0016	20:18	20:18	0		3390663	807387	809	2022	998		
269.9986	20:18	20:18	0		3017679	757196	1469	3672	515	1.12(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:34	22:34	0		7649107	1762797	840	2100	2099		
269.9986	22:33	22:34	-1		7251320	1682423	732	1830	2298	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:51	22:51	0	1.012	3701943	861784	840	2100	1026		
269.9986	22:51	22:51	0	1.012	3584359	824156	732	1830	1126	1.03(0.88-1.20)	
PCB-37L											
268.0016	26:50	26:50	0	1.189	6741180	1368041	840	2100	1629		
269.9986	26:50	26:50	0	1.189	6386677	1296324	732	1830	1771	1.06(0.88-1.20)	
PCB-19											
255.9613	17:05	17:05	0	1.001	1313948	368639	182	455	2025		
257.9584	17:05	17:05	0	1.001	1244945	350138	56	140	6252	1.06(0.88-1.20)	
PCB-18											
255.9613	18:55	18:55	0	1.108	3616598	655814	182	455	3603		
257.9584	18:55	18:55	0	1.108	3493147	633284	56	140	11309	1.04(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:55	18:55	0	1.108	3616598	655814	182	455	3603		
257.9584	18:55	18:55	0	1.108	3493147	633284	56	140	11309	1.04(0.88-1.20)	
PCB-17											
255.9613	19:21	19:21	0	1.134	1251246	315887	182	455	1736		
257.9584	19:21	19:21	0	1.134	1225381	311491	56	140	5562	1.02(0.88-1.20)	
PCB-27											
255.9613	19:34	19:34	0	1.146	1956780	499273	182	455	2743		
257.9584	19:34	19:34	0	1.146	1853848	466037	56	140	8322	1.06(0.88-1.20)	
PCB-24											
255.9613	19:42	19:42	0	1.154	1744232	456281	182	455	2507		
257.9584	19:42	19:42	0	1.154	1670456	427708	56	140	7638	1.04(0.88-1.20)	
PCB-16											
255.9613	19:49	19:49	0	1.161	1236300	303431	182	455	1667		
257.9584	19:49	19:49	0	1.161	1145886	280828	56	140	5015	1.08(0.88-1.20)	
PCB-32											
255.9613	20:19	20:19	0	1.190	1923948	459899	182	455	2527		
257.9584	20:20	20:19	1	1.191	1826028	452131	56	140	8074	1.05(0.88-1.20)	
PCB-34											
255.9613	21:35	21:35	0	1.264	3931788	969220	3328	8320	291		
257.9584	21:35	21:35	0	1.264	3685322	886846	2969	7422	299	1.07(0.88-1.20)	
PCB-23											
255.9613	21:43	21:43	0	1.273	3585522	856245	3328	8320	257		
257.9584	21:43	21:43	0	1.273	3453211	818740	2969	7422	276	1.04(0.88-1.20)	
PCB-26											
255.9613	22:02	22:02	0	1.291	7484218	1555348	3328	8320	467		
257.9584	22:03	22:02	1	1.292	7198166	1489843	2969	7422	502	1.04(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:02	22:02	0	1.291	7484218	1555348	3328	8320	467		
257.9584	22:03	22:02	1	1.292	7198166	1489843	2969	7422	502	1.04(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:16	22:16	0	0.830	4354894	944751	3328	8320	284		
257.9584	22:16	22:16	0	0.830	4168541	906902	2969	7422	305	1.04(0.88-1.20)	
PCB-31											
255.9613	22:35	22:35	0	0.841	3887668	911363	3328	8320	274		
257.9584	22:35	22:35	0	0.841	3739851	853269	2969	7422	287	1.04(0.88-1.20)	
PCB-20											
255.9613	22:53	22:53	0	0.853	7787235	1433689	3328	8320	431		
257.9584	22:53	22:53	0	0.853	7448750	1388558	2969	7422	468	1.05(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:53	22:53	0	0.853	7787235	1433689	3328	8320	431		
257.9584	22:53	22:53	0	0.853	7448750	1388558	2969	7422	468	1.05(0.88-1.20)	
PCB-21											
255.9613	23:03	23:03	0	0.859	7219535	872178	3328	8320	262		M
257.9584	23:03	23:03	0	0.859	6899163	819349	2969	7422	276	1.05(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:03	23:03	0	0.859	7219535	872178	3328	8320	262		M
257.9584	23:03	23:03	0	0.859	6899163	819349	2969	7422	276	1.05(0.88-1.20)	M
PCB-22											
255.9613	23:30	23:30	0	0.876	4018710	878876	3328	8320	264		
257.9584	23:30	23:30	0	0.876	3850497	836824	2969	7422	282	1.04(0.88-1.20)	
PCB-36											
255.9613	25:04	25:04	0	0.934	3756983	749114	3328	8320	225		
257.9584	25:04	25:04	0	0.934	3432696	728565	2969	7422	245	1.09(0.88-1.20)	
PCB-39											
255.9613	25:25	25:25	0	0.947	3826001	817963	3328	8320	246		
257.9584	25:25	25:25	0	0.947	3725432	790072	2969	7422	266	1.03(0.88-1.20)	
PCB-38											
255.9613	26:00	26:00	0	0.969	3563865	751990	3328	8320	226		
257.9584	26:00	26:00	0	0.969	3380705	703123	2969	7422	237	1.05(0.88-1.20)	
PCB-35											
255.9613	26:27	26:27	0	0.986	3755275	758945	3328	8320	228		
257.9584	26:27	26:27	0	0.986	3542493	699045	2969	7422	235	1.06(0.88-1.20)	
PCB-37											
255.9613	26:52	26:52	0	1.001	3622863	737778	3328	8320	222		
257.9584	26:52	26:52	0	1.001	3538527	728486	2969	7422	245	1.02(0.88-1.20)	
PCB-54L											
301.9626	20:08	20:08	0	0.815	1647124	411792	58	145	7100		
303.9597	20:08	20:08	0	0.815	2052982	508445	3	7	169482	0.80(0.65-0.89)	
PCB-52L											
301.9626	24:41	24:41	0		3511341	787110	1281	3202	614		
303.9597	24:41	24:41	0		4371154	945229	1757	4392	538	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:35	32:35	0	0.970	2164250	432613	1281	3202	338		
303.9597	32:35	32:35	0	0.970	2664052	536257	1757	4392	305	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:35	33:35	0	1.360	4289108	840135	1281	3202	656		
303.9597	33:35	33:35	0	1.360	5349944	1071190	1757	4392	610	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:09	34:09	0	1.383	4464767	845557	1281	3202	660		
303.9597	34:09	34:09	0	1.383	5554990	1036434	1757	4392	590	0.80(0.65-0.89)	
PCB-54											
289.9224	20:10	20:10	0	1.000	1043796	260254	5	12	52051		
291.9194	20:10	20:10	0	1.000	1320436	323719	98	245	3303	0.79(0.65-0.89)	
PCB-50											
289.9224	22:19	22:19	0	1.109	3703905	793284	1842	4605	431		
291.9194	22:19	22:19	0	1.109	4645436	1015565	2719	6797	374	0.80(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:19	22:19	0	1.109	3703905	793284	1842	4605	431		
291.9194	22:19	22:19	0	1.109	4645436	1015565	2719	6797	374	0.80(0.65-0.89)	
PCB-45											
289.9224	23:03	23:03	0	1.145	3630230	466435	1842	4605	253		M
291.9194	23:03	23:03	0	1.145	4525067	595517	2719	6797	219	0.80(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:03	23:03	0	1.145	3630230	466435	1842	4605	253		M
291.9194	23:03	23:03	0	1.145	4525067	595517	2719	6797	219	0.80(0.65-0.89)	M
PCB-46											
289.9224	23:18	23:18	0	1.157	1548631	360457	1842	4605	196		
291.9194	23:18	23:18	0	1.157	1943567	458181	2719	6797	169	0.80(0.65-0.89)	
PCB-52											
289.9224	24:42	24:42	0	1.227	2005348	453876	1842	4605	246		
291.9194	24:42	24:42	0	1.227	2552870	563993	2719	6797	207	0.79(0.65-0.89)	
PCB-43											
289.9224	24:51	24:51	0	1.235	4533574	611281	1842	4605	332		M
291.9194	24:51	24:51	0	1.235	5591642	740836	2719	6797	272	0.81(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:51	24:51	0	1.235	4533574	611281	1842	4605	332		M
291.9194	24:51	24:51	0	1.235	5591642	740836	2719	6797	272	0.81(0.65-0.89)	M
PCB-49											
289.9224	25:08	25:08	0	1.249	4623038	684828	1842	4605	372		
291.9194	25:08	25:08	0	1.249	5694562	834272	2719	6797	307	0.81(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:08	25:08	0	1.249	4623038	684828	1842	4605	372		
291.9194	25:08	25:08	0	1.249	5694562	834272	2719	6797	307	0.81(0.65-0.89)	
PCB-48											
289.9224	25:28	25:28	0	1.265	1834052	412555	1842	4605	224		
291.9194	25:28	25:28	0	1.265	2272620	510393	2719	6797	188	0.81(0.65-0.89)	
PCB-44											
289.9224	25:43	25:43	0	1.277	6229174	1123321	1842	4605	610		
291.9194	25:43	25:43	0	1.277	7821828	1414765	2719	6797	520	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:43	25:43	0	1.277	6229174	1123321	1842	4605	610		
291.9194	25:43	25:43	0	1.277	7821828	1414765	2719	6797	520	0.80(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:43	25:43	0	1.277	6229174	1123321	1842	4605	610		
291.9194	25:43	25:43	0	1.277	7821828	1414765	2719	6797	520	0.80(0.65-0.89)	
PCB-59											
289.9224	26:01	26:01	0	1.292	7380432	1055458	1842	4605	573		
291.9194	26:01	26:01	0	1.292	9405718	1333751	2719	6797	491	0.78(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:01	26:01	0	1.292	7380432	1055458	1842	4605	573		
291.9194	26:01	26:01	0	1.292	9405718	1333751	2719	6797	491	0.78(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:01	26:01	0	1.292	7380432	1055458	1842	4605	573		
291.9194	26:01	26:01	0	1.292	9405718	1333751	2719	6797	491	0.78(0.65-0.89)	
PCB-42											
289.9224	26:13	26:13	0	1.303	1858373	388247	1842	4605	211		
291.9194	26:13	26:13	0	1.303	2274362	480862	2719	6797	177	0.82(0.65-0.89)	
PCB-40											
289.9224	26:43	26:43	0	1.327	5625375	843330	1842	4605	458		M
291.9194	26:43	26:43	-1	1.327	7191260	1074779	2719	6797	395	0.78(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:43	26:43	0	1.327	5625375	843330	1842	4605	458		M
291.9194	26:43	26:43	-1	1.327	7191260	1074779	2719	6797	395	0.78(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:43	26:43	0	1.327	5625375	843330	1842	4605	458		M
291.9194	26:43	26:43	-1	1.327	7191260	1074779	2719	6797	395	0.78(0.65-0.89)	M
PCB-64											
289.9224	26:56	26:56	0	1.338	2575846	542932	1842	4605	295		
291.9194	26:56	26:56	0	1.338	3129933	678467	2719	6797	250	0.82(0.65-0.89)	
PCB-72											
289.9224	27:46	27:46	0	0.827	2419046	514115	1842	4605	279		
291.9194	27:46	27:46	1	0.827	2990574	627331	2719	6797	231	0.81(0.65-0.89)	
PCB-68											
289.9224	28:03	28:03	0	0.835	2722344	556506	1842	4605	302		
291.9194	28:03	28:03	0	0.835	3443239	695726	2719	6797	256	0.79(0.65-0.89)	
PCB-57											
289.9224	28:28	28:28	0	0.848	2413771	503270	1842	4605	273		
291.9194	28:28	28:28	0	0.848	3091114	648527	2719	6797	239	0.78(0.65-0.89)	
PCB-58											
289.9224	28:42	28:42	0	0.855	3019764	597065	1842	4605	324		
291.9194	28:42	28:42	0	0.855	3777118	762734	2719	6797	281	0.80(0.65-0.89)	
PCB-67											
289.9224	28:52	28:52	0	0.860	3051504	616714	1842	4605	335		
291.9194	28:52	28:52	0	0.860	3880359	765409	2719	6797	282	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:08	29:08	0	0.868	2516138	495169	1842	4605	269		
291.9194	29:08	29:08	0	0.868	3138614	622841	2719	6797	229	0.80(0.65-0.89)	
PCB-61											
289.9224	29:28	29:28	0	0.878	10633359	1201936	1842	4605	653		
291.9194	29:28	29:28	0	0.878	13544573	1512454	2719	6797	556	0.79(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:28	29:28	0	0.878	10633359	1201936	1842	4605	653		
291.9194	29:28	29:28	0	0.878	13544573	1512454	2719	6797	556	0.79(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:28	29:28	0	0.878	10633359	1201936	1842	4605	653		
291.9194	29:28	29:28	0	0.878	13544573	1512454	2719	6797	556	0.79(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:28	29:28	0	0.878	10633359	1201936	1842	4605	653		
291.9194	29:28	29:28	0	0.878	13544573	1512454	2719	6797	556	0.79(0.65-0.89)	
PCB-66											
289.9224	29:48	29:48	0	0.887	2809063	547393	1842	4605	297		
291.9194	29:48	29:48	0	0.887	3613207	694842	2719	6797	256	0.78(0.65-0.89)	
PCB-55											
289.9224	29:58	29:58	0	0.892	2880375	589441	1842	4605	320		
291.9194	29:58	29:58	0	0.892	3602580	719143	2719	6797	264	0.80(0.65-0.89)	
PCB-56											
289.9224	30:28	30:28	0	0.907	2643496	532005	1842	4605	289		
291.9194	30:28	30:28	0	0.907	3384128	686000	2719	6797	252	0.78(0.65-0.89)	
PCB-60											
289.9224	30:41	30:41	0	0.914	2440633	481707	1842	4605	262		
291.9194	30:41	30:41	0	0.914	3055742	622648	2719	6797	229	0.80(0.65-0.89)	
PCB-80											
289.9224	31:05	31:05	0	0.926	2861865	576868	1842	4605	313		
291.9194	31:05	31:05	0	0.926	3629803	740823	2719	6797	272	0.79(0.65-0.89)	
PCB-79											
289.9224	32:36	32:36	0	0.971	2952500	569575	1842	4605	309		
291.9194	32:36	32:36	0	0.971	3726754	706968	2719	6797	260	0.79(0.65-0.89)	
PCB-78											
289.9224	33:09	33:09	0	0.987	2164490	439955	1842	4605	239		
291.9194	33:10	33:09	1	0.988	2978475	572065	2719	6797	210	0.73(0.65-0.89)	
PCB-81											
289.9224	33:36	33:36	0	1.000	2170121	423251	1842	4605	230		
291.9194	33:36	33:36	1	1.001	2811809	546049	2719	6797	201	0.77(0.65-0.89)	
PCB-77											
289.9224	34:10	34:10	0	1.001	2306078	450626	1842	4605	245		
291.9194	34:09	34:10	-1	1.000	2967480	561811	2719	6797	207	0.78(0.65-0.89)	
PCB-104L											
337.9207	25:37	25:37	0	0.813	4281572	946197	140	350	6759		
339.9178	25:37	25:37	0	0.813	2660076	584412	59	147	9905	1.61(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:35	28:35	0	1.116	1518133	316196	140	350	2259		
339.9178	28:35	28:35	-1	1.115	926863	190898	59	147	3236	1.64(1.32-1.78)	
PCB-101L											
337.9207	31:31	31:31	0		3412641	690147	140	350	4930		
339.9178	31:31	31:31	0		2136597	435201	59	147	7376	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:12	34:12	0	1.085	2223461	447088	140	350	3193		
339.9178	34:12	34:12	0	1.085	1375916	273398	59	147	4634	1.62(1.32-1.78)	
PCB-123L											
337.9207	36:09	36:09	0	1.147	5846769	1169374	5230	13075	224		
339.9178	36:09	36:09	0	1.147	3784605	750950	3161	7902	238	1.54(1.32-1.78)	
PCB-118L											
337.9207	36:28	36:28	0	1.157	6359267	1232252	5230	13075	236		
339.9178	36:28	36:28	0	1.157	4056832	782869	3161	7902	248	1.57(1.32-1.78)	
PCB-114L											
337.9207	37:00	37:00	0	1.174	6206961	1211083	5230	13075	232		
339.9178	37:00	37:00	0	1.174	3877714	757819	3161	7902	240	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:39	37:39	0	1.194	5878224	1150103	5230	13075	220		
339.9178	37:39	37:39	0	1.194	3707449	718882	3161	7902	227	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:07	39:07	0		6152341	1187639	5230	13075	227		
339.9178	39:07	39:07	0		3866470	738399	3161	7902	234	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:44	40:44	0	1.292	5852560	1097580	5230	13075	210		
339.9178	40:43	40:44	-1	1.292	3737911	687544	3161	7902	218	1.57(1.32-1.78)	
PCB-104											
325.8804	25:38	25:38	0	1.001	2170676	468931	180	450	2605		
327.8775	25:39	25:38	1	1.001	1363749	299304	86	215	3480	1.59(1.32-1.78)	
PCB-96											
325.8804	26:01	26:01	0	1.015	2273044	489616	180	450	2720		
327.8775	26:01	26:01	0	1.015	1425640	311622	86	215	3624	1.59(1.32-1.78)	
PCB-103											
325.8804	27:56	27:56	0	1.090	1837470	387835	180	450	2155		
327.8775	27:57	27:56	1	1.091	1157341	243945	86	215	2837	1.59(1.32-1.78)	
PCB-94											
325.8804	28:10	28:10	0	1.099	1596166	334910	180	450	1861		
327.8775	28:10	28:10	0	1.099	987906	210906	86	215	2452	1.62(1.32-1.78)	
PCB-95											
325.8804	28:36	28:36	0	1.116	1722652	353162	180	450	1962		
327.8775	28:36	28:36	0	1.116	1097815	229900	86	215	2673	1.57(1.32-1.78)	
PCB-93											
325.8804	28:49	28:49	0	1.125	3478301	697100	180	450	3873		
327.8775	28:49	28:49	0	1.125	2206061	439538	86	215	5111	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:49	28:49	0	1.125	3478301	697100	180	450	3873		
327.8775	28:49	28:49	0	1.125	2206061	439538	86	215	5111	1.58(1.32-1.78)	
PCB-98											
325.8804	28:58	28:58	0	1.131	3543416	430061	180	450	2389		
327.8775	28:58	28:58	0	1.131	2133056	268485	86	215	3122	1.66(1.32-1.78)	
PCB-102 (C98)											
325.8804	28:58	28:58	0	1.131	3543416	430061	180	450	2389		
327.8775	28:58	28:58	0	1.131	2133056	268485	86	215	3122	1.66(1.32-1.78)	
PCB-88											
325.8804	29:28	29:28	0	1.150	3419552	363151	180	450	2018		
327.8775	29:28	29:28	-1	1.150	2144376	226662	86	215	2636	1.59(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:28	29:28	0	1.150	3419552	363151	180	450	2018		
327.8775	29:28	29:28	-1	1.150	2144376	226662	86	215	2636	1.59(1.32-1.78)	
PCB-84											
325.8804	29:41	29:41	0	1.159	1551532	311066	180	450	1728		
327.8775	29:41	29:41	0	1.159	936569	184023	86	215	2140	1.66(1.32-1.78)	
PCB-89											
325.8804	30:10	30:10	0	1.177	1615541	333112	180	450	1851		
327.8775	30:10	30:10	0	1.177	1041219	201775	86	215	2346	1.55(1.32-1.78)	
PCB-121											
325.8804	30:34	30:34	0	1.193	2781994	561568	180	450	3120		
327.8775	30:34	30:34	0	1.193	1737274	351459	86	215	4087	1.60(1.32-1.78)	
PCB-92											
325.8804	30:57	30:57	0	0.856	1800623	368647	180	450	2048		
327.8775	30:57	30:57	0	0.856	1135718	230445	86	215	2680	1.59(1.32-1.78)	
PCB-90											
325.8804	31:31	31:31	0	1.230	5919620	849231	180	450	4718		
327.8775	31:32	31:31	1	1.231	3820988	542268	86	215	6305	1.55(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:31	31:31	0	1.230	5919620	849231	180	450	4718		
327.8775	31:32	31:31	1	1.231	3820988	542268	86	215	6305	1.55(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:31	31:31	0	1.230	5919620	849231	180	450	4718		
327.8775	31:32	31:31	1	1.231	3820988	542268	86	215	6305	1.55(1.32-1.78)	
PCB-83											
325.8804	32:06	32:06	0	1.253	3580670	431016	180	450	2395		
327.8775	32:06	32:06	0	1.253	2281134	282547	86	215	3285	1.57(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:06	32:06	0	1.253	3580670	431016	180	450	2395		
327.8775	32:06	32:06	0	1.253	2281134	282547	86	215	3285	1.57(1.32-1.78)	
PCB-112											
325.8804	32:13	32:13	0	1.258	2911049	568547	180	450	3159		
327.8775	32:13	32:13	0	1.258	1834369	359429	86	215	4179	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:36	32:36	0	1.273	12787526	1363003	180	450	7572		M
327.8775	32:36	32:36	-1	1.272	8097925	876722	86	215	10194	1.58(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:36	32:36	0	1.273	12787526	1363003	180	450	7572		M
327.8775	32:36	32:36	-1	1.272	8097925	876722	86	215	10194	1.58(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:36	32:36	0	1.273	12787526	1363003	180	450	7572		M
327.8775	32:36	32:36	-1	1.272	8097925	876722	86	215	10194	1.58(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:36	32:36	0	1.273	12787526	1363003	180	450	7572		M
327.8775	32:36	32:36	-1	1.272	8097925	876722	86	215	10194	1.58(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:36	32:36	0	1.273	12787526	1363003	180	450	7572		M
327.8775	32:36	32:36	-1	1.272	8097925	876722	86	215	10194	1.58(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:36	32:36	0	1.273	12787526	1363003	180	450	7572		M
327.8775	32:36	32:36	-1	1.272	8097925	876722	86	215	10194	1.58(1.32-1.78)	M
PCB-85											
325.8804	33:19	33:19	0	1.301	6497812	765880	180	450	4255		
327.8775	33:19	33:19	0	1.301	4134107	496976	86	215	5779	1.57(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:19	33:19	0	1.301	6497812	765880	180	450	4255		
327.8775	33:19	33:19	0	1.301	4134107	496976	86	215	5779	1.57(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:19	33:19	0	1.301	6497812	765880	180	450	4255		
327.8775	33:19	33:19	0	1.301	4134107	496976	86	215	5779	1.57(1.32-1.78)	
PCB-110											
325.8804	33:32	33:32	0	1.309	4986689	618682	180	450	3437		
327.8775	33:32	33:32	0	1.309	3151806	386772	86	215	4497	1.58(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:32	33:32	0	1.309	4986689	618682	180	450	3437		
327.8775	33:32	33:32	0	1.309	3151806	386772	86	215	4497	1.58(1.32-1.78)	
PCB-82											
325.8804	33:49	33:49	0	1.320	1762460	342199	180	450	1901		
327.8775	33:49	33:49	0	1.320	1102175	215460	86	215	2505	1.60(1.32-1.78)	
PCB-111											
325.8804	34:13	34:13	0	1.336	2549048	512319	180	450	2846		
327.8775	34:13	34:13	0	1.336	1611667	321220	86	215	3735	1.58(1.32-1.78)	
PCB-120											
325.8804	34:41	34:41	0	1.354	3014713	591583	180	450	3287		
327.8775	34:41	34:41	0	1.354	1975175	385329	86	215	4481	1.53(1.32-1.78)	
PCB-108											
325.8804	35:49	35:49	0	1.398	6583087	1289051	4123	10307	313		
327.8775	35:49	35:49	0	1.398	4188580	807617	4727	11817	171	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:49	35:49	0	1.398	6583087	1289051	4123	10307	313		
327.8775	35:49	35:49	0	1.398	4188580	807617	4727	11817	171	1.57(1.32-1.78)	
PCB-107											
325.8804	36:03	36:03	0	1.407	3499613	680372	4123	10307	165		
327.8775	36:03	36:03	0	1.407	2434146	440350	4727	11817	93	1.44(1.32-1.78)	
PCB-123											
325.8804	36:10	36:10	0	1.001	3227513	624288	4123	10307	151		
327.8775	36:10	36:10	0	1.001	1917910	406302	4727	11817	86	1.68(1.32-1.78)	
PCB-106											
325.8804	36:17	36:17	0	1.004	3294701	629068	4123	10307	153		
327.8775	36:17	36:17	0	1.004	2098910	400389	4727	11817	85	1.57(1.32-1.78)	
PCB-118											
325.8804	36:30	36:30	0	1.001	3682534	695329	4123	10307	169		
327.8775	36:30	36:30	0	1.001	2268063	444263	4727	11817	94	1.62(1.32-1.78)	
PCB-122											
325.8804	36:50	36:50	0	1.010	2930402	578038	4123	10307	140		
327.8775	36:50	36:50	0	1.010	1848792	352066	4727	11817	74	1.59(1.32-1.78)	
PCB-114											
325.8804	37:01	37:01	0	1.000	3297814	619684	4123	10307	150		
327.8775	37:01	37:01	0	1.000	2082865	390105	4727	11817	83	1.58(1.32-1.78)	
PCB-105											
325.8804	37:40	37:40	0	1.001	3418820	632996	4123	10307	154		
327.8775	37:40	37:40	0	1.001	2290096	396248	4727	11817	84	1.49(1.32-1.78)	
PCB-127											
325.8804	39:09	39:09	0	1.040	3492583	632927	4123	10307	154		
327.8775	39:09	39:09	0	1.040	2236480	407662	4727	11817	86	1.56(1.32-1.78)	
PCB-126											
325.8804	40:45	40:45	0	1.000	3363352	554627	4123	10307	135		
327.8775	40:45	40:45	0	1.000	2137009	368491	4727	11817	78	1.57(1.32-1.78)	
PCB-155L											
371.8817	31:17	31:17	0	0.790	3605179	733070	20	50	36654		
373.8788	31:17	31:17	0	0.790	2815453	576050	61	152	9443	1.28(1.05-1.43)	
PCB-153L											
371.8817	38:20	38:20	0	0.900	2010339	388923	163	407	2386		
373.8788	38:20	38:20	0	0.900	1591017	306433	166	415	1846	1.26(1.05-1.43)	
PCB-138L											
371.8817	39:35	39:35	0		3888938	737063	163	407	4522		
373.8788	39:35	39:35	0		3083378	605499	166	415	3648	1.26(1.05-1.43)	
PCB-167L											
371.8817	42:35	42:35	0	1.076	4889241	923482	163	407	5666		
373.8788	42:35	42:35	0	1.076	3840101	730040	166	415	4398	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:44	43:44	0	1.105	9443310	1234012	163	407	7571		
373.8788	43:44	43:44	0	1.105	7463343	965849	166	415	5818	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-157L (C156L)											
371.8817	43:44	43:44	0	1.105	9443310	1234012	163	407	7571		
373.8788	43:44	43:44	0	1.105	7463343	965849	166	415	5818	1.27(1.05-1.43)	
PCB-169L											
371.8817	46:58	46:58	0	1.186	4881606	882206	163	407	5412		
373.8788	46:58	46:58	0	1.186	3816301	680028	166	415	4097	1.28(1.05-1.43)	
PCB-155											
359.8415	31:18	31:18	0	1.001	1704039	353244	42	105	8411		
361.8385	31:18	31:18	0	1.001	1349690	281418	36	90	7817	1.26(1.05-1.43)	
PCB-152											
359.8415	31:30	31:30	0	1.007	1689117	346927	42	105	8260		
361.8385	31:30	31:30	0	1.007	1353108	276529	36	90	7681	1.25(1.05-1.43)	
PCB-150											
359.8415	31:40	31:40	0	1.013	1778103	354056	42	105	8430		
361.8385	31:40	31:40	0	1.013	1397923	282518	36	90	7848	1.27(1.05-1.43)	
PCB-136											
359.8415	32:02	32:02	0	1.024	1754882	352592	42	105	8395		
361.8385	32:02	32:02	0	1.024	1420070	286842	36	90	7968	1.24(1.05-1.43)	
PCB-145											
359.8415	32:20	32:20	0	1.034	1711397	348728	42	105	8303		
361.8385	32:20	32:20	0	1.034	1342665	268281	36	90	7452	1.27(1.05-1.43)	
PCB-148											
359.8415	33:50	33:50	0	1.082	1356876	272400	42	105	6486		
361.8385	33:50	33:50	0	1.082	1064382	210457	36	90	5846	1.27(1.05-1.43)	
PCB-135											
359.8415	34:25	34:25	0	1.101	2536613	292003	42	105	6952		M
361.8385	34:25	34:25	0	1.101	2024817	223353	36	90	6204	1.25(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:25	34:25	0	1.101	2536613	292003	42	105	6952		M
361.8385	34:25	34:25	0	1.101	2024817	223353	36	90	6204	1.25(1.05-1.43)	M
PCB-154											
359.8415	34:41	34:41	0	1.109	1418668	280149	42	105	6670		
361.8385	34:41	34:41	0	1.109	1156824	219829	36	90	6106	1.23(1.05-1.43)	
PCB-144											
359.8415	34:59	34:59	0	1.119	1412888	273317	42	105	6508		
361.8385	34:59	34:59	0	1.119	1104889	210871	36	90	5858	1.28(1.05-1.43)	
PCB-147											
359.8415	35:20	35:20	0	1.130	4661143	886040	1612	4030	550		M
361.8385	35:20	35:20	0	1.130	3652910	717385	751	1877	955	1.28(1.05-1.43)	M
PCB-149 (C147)											
359.8415	35:20	35:20	0	1.130	4661143	886040	1612	4030	550		M
361.8385	35:20	35:20	0	1.130	3652910	717385	751	1877	955	1.28(1.05-1.43)	M
PCB-134											
359.8415	35:39	35:39	0	1.140	3709519	393239	1612	4030	244		
361.8385	35:39	35:39	0	1.140	2923470	302935	751	1877	403	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-143 (C134)											
359.8415	35:39	35:39	0	1.140	3709519	393239	1612	4030	244		
361.8385	35:39	35:39	0	1.140	2923470	302935	751	1877	403	1.27(1.05-1.43)	
PCB-139											
359.8415	35:57	35:57	0	1.149	4103072	728006	1612	4030	452		
361.8385	35:57	35:57	0	1.149	3225681	572229	751	1877	762	1.27(1.05-1.43)	
PCB-140 (C139)											
359.8415	35:57	35:57	0	1.149	4103072	728006	1612	4030	452		
361.8385	35:57	35:57	0	1.149	3225681	572229	751	1877	762	1.27(1.05-1.43)	
PCB-131											
359.8415	36:09	36:09	0	1.156	1749348	342626	1612	4030	213		
361.8385	36:09	36:09	0	1.156	1427347	283660	751	1877	378	1.23(1.05-1.43)	
PCB-142											
359.8415	36:18	36:18	0	1.161	1820189	355994	1612	4030	221		
361.8385	36:17	36:18	-1	1.160	1438914	275055	751	1877	366	1.26(1.05-1.43)	
PCB-132											
359.8415	36:37	36:37	0	1.171	1748592	355108	1612	4030	220		
361.8385	36:37	36:37	0	1.171	1380150	271621	751	1877	362	1.27(1.05-1.43)	
PCB-133											
359.8415	37:07	37:07	0	1.187	1899228	359569	1612	4030	223		
361.8385	37:07	37:07	0	1.187	1506399	284644	751	1877	379	1.26(1.05-1.43)	
PCB-165											
359.8415	37:31	37:31	0	0.881	2431217	481475	1612	4030	299		
361.8385	37:31	37:31	0	0.881	1918806	376934	751	1877	502	1.27(1.05-1.43)	
PCB-146											
359.8415	37:46	37:46	0	0.887	2337408	446508	1612	4030	277		
361.8385	37:46	37:46	0	0.887	1838022	346545	751	1877	461	1.27(1.05-1.43)	
PCB-161											
359.8415	37:54	37:54	0	0.890	2621950	507899	1612	4030	315		
361.8385	37:54	37:54	0	0.890	2071947	407469	751	1877	543	1.27(1.05-1.43)	
PCB-153											
359.8415	38:24	38:24	0	0.901	5172967	766746	1612	4030	476		
361.8385	38:24	38:24	0	0.901	4128734	600781	751	1877	800	1.25(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:24	38:24	0	0.901	5172967	766746	1612	4030	476		
361.8385	38:24	38:24	0	0.901	4128734	600781	751	1877	800	1.25(1.05-1.43)	
PCB-141											
359.8415	38:34	38:34	0	0.905	2044045	376123	1612	4030	233		
361.8385	38:34	38:34	0	0.905	1621875	286998	751	1877	382	1.26(1.05-1.43)	
PCB-130											
359.8415	38:58	38:58	0	0.915	1630891	316763	1612	4030	197		
361.8385	38:58	38:58	0	0.915	1337905	265180	751	1877	353	1.22(1.05-1.43)	
PCB-137											
359.8415	39:12	39:12	0	0.920	1843569	366499	1612	4030	227		
361.8385	39:12	39:12	0	0.920	1437738	286965	751	1877	382	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-164											
359.8415	39:19	39:19	0	0.923	2514022	475870	1612	4030	295		
361.8385	39:19	39:19	0	0.923	2000831	378557	751	1877	504	1.26(1.05-1.43)	
PCB-129											
359.8415	39:38	39:38	0	0.931	8826687	981544	1612	4030	609		M
361.8385	39:38	39:38	0	0.931	7157836	805030	751	1877	1072	1.23(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:38	39:38	0	0.931	8826687	981544	1612	4030	609		M
361.8385	39:38	39:38	0	0.931	7157836	805030	751	1877	1072	1.23(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:38	39:38	0	0.931	8826687	981544	1612	4030	609		M
361.8385	39:38	39:38	0	0.931	7157836	805030	751	1877	1072	1.23(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:38	39:38	0	0.931	8826687	981544	1612	4030	609		M
361.8385	39:38	39:38	0	0.931	7157836	805030	751	1877	1072	1.23(1.05-1.43)	M
PCB-158											
359.8415	40:00	40:00	0	0.939	3093849	556362	1612	4030	345		
361.8385	40:00	40:00	0	0.939	2420800	438289	751	1877	584	1.28(1.05-1.43)	
PCB-128											
359.8415	40:51	40:51	0	0.959	4683619	664383	1612	4030	412		
361.8385	40:50	40:51	-1	0.959	3802530	527713	751	1877	703	1.23(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:51	40:51	0	0.959	4683619	664383	1612	4030	412		
361.8385	40:50	40:51	-1	0.959	3802530	527713	751	1877	703	1.23(1.05-1.43)	
PCB-159											
359.8415	41:51	41:51	0	0.983	3257746	622933	1612	4030	386		
361.8385	41:51	41:51	0	0.983	2507032	469514	751	1877	625	1.30(1.05-1.43)	
PCB-162											
359.8415	42:08	42:08	0	0.990	2940193	521179	1612	4030	323		
361.8385	42:08	42:08	0	0.990	2338314	412097	751	1877	549	1.26(1.05-1.43)	
PCB-167											
359.8415	42:37	42:37	0	1.001	2660949	496678	1612	4030	308		
361.8385	42:37	42:37	0	1.001	2125409	403732	751	1877	538	1.25(1.05-1.43)	
PCB-156											
359.8415	43:46	43:46	0	1.001	5155839	670492	1612	4030	416		
361.8385	43:46	43:46	0	1.001	4121106	548373	751	1877	730	1.25(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:46	43:46	0	1.001	5155839	670492	1612	4030	416		
361.8385	43:46	43:46	0	1.001	4121106	548373	751	1877	730	1.25(1.05-1.43)	
PCB-169											
359.8415	46:59	46:59	0	1.000	2745854	476590	1612	4030	296		
361.8385	46:59	46:59	0	1.000	2227275	376537	751	1877	501	1.23(1.05-1.43)	
PCB-188L											
405.8428	37:00	37:00	0	0.820	3844235	748042	72	180	10389		
407.8398	37:00	37:00	0	0.820	3534971	689733	30	75	22991	1.09(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-178L											
405.8428	40:03	40:03	0	0.887	1395486	271039	72	180	3764		
407.8398	40:03	40:03	0	0.887	1283632	235830	30	75	7861	1.09(0.89-1.21)	
PCB-180L											
405.8428	45:08	45:08	0		2922919	542088	72	180	7529		
407.8398	45:08	45:08	0		2700772	518672	30	75	17289	1.08(0.89-1.21)	
PCB-170L											
405.8428	46:23	46:23	0	1.028	2435129	444799	72	180	6178		
407.8398	46:23	46:23	0	1.028	2258172	414777	30	75	13826	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:29	49:29	0	1.097	5588114	1038222	789	1972	1316		
407.8398	49:29	49:29	0	1.097	5323335	974580	2516	6290	387	1.05(0.89-1.21)	
PCB-188											
393.8025	37:01	37:01	0	1.001	2130906	413514	1	2	413514		
395.7995	37:01	37:01	0	1.001	1996594	395130	2	5	197565	1.07(0.89-1.21)	
PCB-179											
393.8025	37:22	37:22	0	1.010	2119018	407757	1	2	407757		
395.7995	37:22	37:22	0	1.010	2027682	378940	2	5	189470	1.05(0.89-1.21)	
PCB-184											
393.8025	37:53	37:53	0	1.024	2089169	407324	1	2	407324		
395.7995	37:53	37:53	0	1.024	1981551	374431	2	5	187216	1.05(0.89-1.21)	
PCB-176											
393.8025	38:14	38:14	0	1.033	1894270	371386	1	2	371386		
395.7995	38:14	38:14	0	1.033	1809446	349469	2	5	174735	1.05(0.89-1.21)	
PCB-186											
393.8025	38:42	38:42	0	1.046	2279176	426587	1	2	426587		
395.7995	38:42	38:42	0	1.046	2173216	414652	2	5	207326	1.05(0.89-1.21)	
PCB-178											
393.8025	40:05	40:05	0	1.083	1365329	269877	1	2	269877		
395.7995	40:05	40:05	0	1.083	1268167	251536	2	5	125768	1.08(0.89-1.21)	
PCB-175											
393.8025	40:42	40:42	0	1.100	1458456	285904	1	2	285904		
395.7995	40:42	40:42	0	1.100	1377641	260906	2	5	130453	1.06(0.89-1.21)	
PCB-187											
393.8025	40:58	40:58	0	1.107	1720237	319727	1	2	319727		
395.7995	40:58	40:58	0	1.107	1653675	311100	2	5	155550	1.04(0.89-1.21)	
PCB-182											
393.8025	41:11	41:11	0	1.113	1485462	284187	1	2	284187		
395.7995	41:11	41:11	0	1.113	1420651	274010	2	5	137005	1.05(0.89-1.21)	
PCB-183											
393.8025	41:35	41:35	0	1.124	2932772	311006	1	2	311006		M
395.7995	41:35	41:35	0	1.124	2768313	287039	2	5	143520	1.06(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:35	41:35	0	1.124	2932772	311006	1	2	311006		M
395.7995	41:35	41:35	0	1.124	2768313	287039	2	5	143520	1.06(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-174											M
393.8025	41:49	41:49	0	1.130	1562991	287230	1	2	287230		M
395.7995	41:49	41:49	0	1.130	1471617	270484	2	5	135242	1.06(0.89-1.21)	
PCB-177											
393.8025	42:16	42:16	0	1.142	1510810	271627	1	2	271627		
395.7995	42:16	42:16	0	1.142	1381772	255364	2	5	127682	1.09(0.89-1.21)	
PCB-181											
393.8025	42:38	42:38	0	1.153	1454908	266930	1	2	266930		
395.7995	42:38	42:38	0	1.153	1377883	255561	2	5	127781	1.06(0.89-1.21)	
PCB-171											
393.8025	42:52	42:52	0	1.159	2731609	461237	1	2	461237		
395.7995	42:52	42:52	0	1.159	2584477	428038	2	5	214019	1.06(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:52	42:52	0	1.159	2731609	461237	1	2	461237		
395.7995	42:52	42:52	0	1.159	2584477	428038	2	5	214019	1.06(0.89-1.21)	
PCB-172											
393.8025	44:31	44:31	0	0.899	1325626	254466	1	2	254466		
395.7995	44:31	44:31	0	0.899	1269084	235091	2	5	117546	1.04(0.89-1.21)	
PCB-192											
393.8025	44:46	44:46	0	0.905	2102051	388487	1	2	388487		
395.7995	44:46	44:46	0	0.905	2033086	368731	2	5	184366	1.03(0.89-1.21)	
PCB-180											
393.8025	45:07	45:07	0	0.912	3655775	492764	1	2	492764		
395.7995	45:07	45:07	0	0.912	3398113	451612	2	5	225806	1.08(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:07	45:07	0	0.912	3655775	492764	1	2	492764		
395.7995	45:07	45:07	0	0.912	3398113	451612	2	5	225806	1.08(0.89-1.21)	
PCB-191											
393.8025	45:30	45:30	0	0.920	2048898	382049	1	2	382049		
395.7995	45:30	45:30	0	0.920	1946551	367116	2	5	183558	1.05(0.89-1.21)	
PCB-170											
393.8025	46:24	46:24	0	0.938	1443706	263680	1	2	263680		
395.7995	46:24	46:24	0	0.938	1359123	246582	2	5	123291	1.06(0.89-1.21)	
PCB-190											
393.8025	46:56	46:56	0	0.948	2025945	366081	1	2	366081		
395.7995	46:56	46:56	0	0.948	1918021	353061	2	5	176531	1.06(0.89-1.21)	
PCB-189											
393.8025	49:30	49:30	0	1.001	2706046	511983	530	1325	966		
395.7995	49:30	49:30	0	1.001	2596992	488608	583	1457	838	1.04(0.89-1.21)	
PCB-202L											
439.8038	42:21	42:21	0	0.821	2694120	506038	35	87	14458		
441.8008	42:21	42:21	0	0.821	2965446	556642	52	130	10705	0.91(0.76-1.02)	
PCB-194L											
439.8038	51:36	51:36	0		3680103	662449	187	467	3543		
441.8008	51:36	51:36	0		4030869	739025	201	502	3677	0.91(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205L											
439.8038	52:04	52:04	0	1.009	4345236	799579	187	467	4276		
441.8008	52:04	52:04	0	1.009	4762010	865930	201	502	4308	0.91(0.76-1.02)	
PCB-202											
427.7635	42:23	42:23	0	1.001	1414345	265058	55	137	4819		
429.7606	42:23	42:23	-1	1.001	1577620	293343	75	187	3911	0.90(0.76-1.02)	
PCB-201											
427.7635	43:18	43:18	0	1.022	1315203	250212	55	137	4549		
429.7606	43:18	43:18	0	1.022	1471521	274057	75	187	3654	0.89(0.76-1.02)	
PCB-204											
427.7635	43:58	43:58	0	1.038	1370668	262529	55	137	4773		
429.7606	43:58	43:58	0	1.038	1508615	284521	75	187	3794	0.91(0.76-1.02)	
PCB-197											
427.7635	44:12	44:12	0	1.043	1341249	270364	55	137	4916		
429.7606	44:12	44:12	0	1.043	1670981	318220	75	187	4243	0.80(0.76-1.02)	
PCB-200											
427.7635	44:19	44:19	0	1.046	1425892	246312	55	137	4478		
429.7606	44:19	44:19	0	1.046	1407139	263636	75	187	3515	1.01(0.76-1.02)	
PCB-198											
427.7635	47:05	47:05	0	1.112	2261671	293147	55	137	5330		
429.7606	47:05	47:05	0	1.112	2522186	321026	75	187	4280	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:05	47:05	0	1.112	2261671	293147	55	137	5330		
429.7606	47:05	47:05	0	1.112	2522186	321026	75	187	4280	0.90(0.76-1.02)	
PCB-196											
427.7635	47:45	47:45	0	0.917	1024128	193049	55	137	3510		
429.7606	47:46	47:45	1	0.917	1171697	216687	75	187	2889	0.87(0.76-1.02)	
PCB-203											
427.7635	47:57	47:57	0	0.921	1281151	237390	55	137	4316		
429.7606	47:57	47:57	0	0.921	1406607	252912	75	187	3372	0.91(0.76-1.02)	
PCB-195											
427.7635	49:17	49:17	0	0.946	1830917	335513	461	1152	728		
429.7606	49:17	49:17	0	0.946	2007125	372184	562	1405	662	0.91(0.76-1.02)	
PCB-194											
427.7635	51:37	51:37	0	0.991	2050317	378715	461	1152	822		
429.7606	51:37	51:37	0	0.991	2289812	406047	562	1405	723	0.90(0.76-1.02)	
PCB-205											
427.7635	52:05	52:05	0	1.000	2375238	436679	461	1152	947		
429.7606	52:05	52:05	0	1.000	2564367	469709	562	1405	836	0.93(0.76-1.02)	
PCB-208L											
473.7648	49:01	49:01	0	0.950	3557250	665222	749	1872	888		
475.7619	49:01	49:01	0	0.950	4379558	818097	847	2117	966	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:49	53:49	0	1.043	2597711	474701	749	1872	634		
475.7619	53:49	53:49	0	1.043	3149286	559593	847	2117	661	0.82(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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PCB-208

461.7246	49:02	49:02	0	1.000	1928877	351684	578	1445	608		
463.7216	49:02	49:02	0	1.000	2418578	452910	809	2022	560	0.80(0.65-0.89)	

PCB-207

461.7246	49:58	49:58	0	1.019	2006438	354172	578	1445	613		
463.7216	49:58	49:58	0	1.019	2538413	473445	809	2022	585	0.79(0.65-0.89)	

PCB-206

461.7246	53:50	53:50	0	1.000	1562043	287965	578	1445	498		
463.7216	53:50	53:50	0	1.000	1973874	356228	809	2022	440	0.79(0.65-0.89)	

PCB-209L

507.7258	55:26	55:26	0	1.074	2520680	436336	120	300	3636		
509.7229	55:26	55:26	0	1.074	3440470	589795	107	267	5512	0.73(0.59-0.79)	

DCB Decachlorobiphenyl

495.6856	55:28	55:28	0	1.000	1347794	228469	101	252	2262		
497.6826	55:28	55:28	0	1.000	1919406	320495	61	152	5254	0.70(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61CV1668CS3_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville
CCV Relative RT Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
 Lims ID: WDMCCV
 Client ID:
 Sample Type: WDMCCV
 Inject. Date: 11-Jun-2024 09:41:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033026-001
 Operator ID: Xcalibur_System Instrument ID: D2D
 Sublist: chrom-PCBs_D2D*sub2
 Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 11-Jun-2024 16:30:42 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1603
 First Level Reviewer: P0IK Date: 11-Jun-2024 16:30:42
 Start Cal Date: 31-May-2024 14:36:00
 End Cal Date: 31-May-2024 21:13:00

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-1L		11:34	11:34	1	15	0.7253	0.7266	0.717 - 0.7472
PCB-3L		13:43	13:43	0	15	0.8606	0.8612	0.849 - 0.8798
PCB-1	L	11:35	11:35	1		1.0011	1.0011	0.995 - 1.0085
PCB-2		13:34	13:34	0		0.9885	0.9885	0.985 - 0.9925
PCB-3	L	13:44	13:44	0		1.0010	1.0010	0.998 - 1.0048
PCB-4L		13:59	13:59	0	15	0.8771	0.8777	0.865 - 0.8956
PCB-9L		15:57	15:56	-1		1.0000	1.0000	0.987 - 1.0128
PCB-8L		16:48	16:46	-2		1.1991	*1.1995	1.192 - 1.1989
PCB-15L		19:52	19:50	-2	15	1.2459	1.2454	1.233 - 1.2530
PCB-4	L	14:00	14:00	0		1.0009	1.0009	0.994 - 1.0058
PCB-10		14:10	14:10	0		1.0132	1.0132	1.010 - 1.0168
PCB-9		15:58	15:57	-1		1.1421	1.1412	1.135 - 1.1415
PCB-7		16:08	16:07	-1		1.1534	1.1525	1.147 - 1.1538
PCB-6		16:22	16:22	0		1.1703	1.1704	1.164 - 1.1706
PCB-5		16:41	16:40	-1		1.1929	1.1920	1.186 - 1.1926
PCB-8		16:48	16:47	-1		1.2013	1.2005	1.194 - 1.2008
PCB-14		18:26	18:24	-2		0.9278	0.9277	0.926 - 0.9305
PCB-11		19:16	19:14	-2		0.9702	0.9702	0.968 - 0.9725
PCB-12/13		19:34	19:32	-2		0.9848	0.9847	0.983 - 0.9875
PCB-15	L	19:53	19:51	-2		1.0013	1.0007	0.997 - 1.0050
PCB-19L		17:05	17:04	-1	15	0.8402	0.8406	0.831 - 0.8547
PCB-32L		20:20	20:18	-2		1.0000	1.0000	0.998 - 1.0024
PCB-31L		22:37	22:34	-2		1.0000	1.0000	0.998 - 1.0022
PCB-28L		22:55	22:51	-4		1.0130	1.0125	1.006 - 1.0201

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-37L		26:54	26:50	-4	15	1.1902	1.1894	1.178 - 1.1995
PCB-19	L	17:06	17:05	-1		1.0008	1.0008	0.996 - 1.0058
PCB-18/30		18:57	18:55	-1		1.1085	1.1079	1.104 - 1.1093
PCB-17		19:23	19:21	-2		1.1347	1.1341	1.129 - 1.1352
PCB-27		19:37	19:34	-2		1.1478	1.1465	1.141 - 1.1471
PCB-24		19:44	19:42	-2		1.1547	1.1542	1.148 - 1.1542
PCB-16		19:51	19:49	-2		1.1617	1.1611	1.156 - 1.1621
PCB-32		20:22	20:19	-2		1.1917	1.1904	1.185 - 1.1908
PCB-34		21:37	21:35	-2		1.2654	*1.2644	1.257 - 1.2623
PCB-23		21:47	21:43	-3		1.2744	*1.2727	1.266 - 1.2715
PCB-26/29		22:06	22:02	-3		1.2931	1.2914	1.282 - 1.2915
PCB-25		22:19	22:16	-2		0.8293	0.8298	0.829 - 0.8325
PCB-31		22:38	22:35	-3		0.8412	0.8412	0.840 - 0.8438
PCB-20/28		22:56	22:53	-3		0.8526	0.8527	0.851 - 0.8568
PCB-21/33		23:06	23:03	-3		0.8588	0.8589	0.858 - 0.8637
PCB-22		23:33	23:30	-3		0.8754	0.8756	0.875 - 0.8786
PCB-36		25:07	25:04	-3		0.9334	0.9337	0.932 - 0.9352
PCB-39		25:28	25:25	-3		0.9467	0.9471	0.945 - 0.9483
PCB-38		26:03	26:00	-3		0.9681	0.9685	0.966 - 0.9695
PCB-35		26:31	26:27	-4		0.9857	0.9857	0.984 - 0.9875
PCB-37	L	26:55	26:52	-3		1.0005	1.0010	0.999 - 1.0024
PCB-54L		20:10	20:08	-2	15	0.8149	0.8154	0.811 - 0.8247
PCB-52L		24:45	24:41	-3		1.0000	1.0000	0.992 - 1.0083
PCB-79L		32:41	32:35	-5		0.9707	0.9703	0.969 - 0.9718
PCB-81L		33:40	33:35	-4	15	1.3604	1.3602	1.351 - 1.3641
PCB-77L		34:13	34:09	-4	15	1.3832	1.3830	1.373 - 1.3867
PCB-54	L	20:12	20:10	-2		1.0000	1.0000	0.996 - 1.0041
PCB-50/53		22:23	22:19	-3		1.1097	1.1088	1.102 - 1.1106
PCB-45/51		23:06	23:03	-3		1.1459	1.1450	1.137 - 1.1453
PCB-46		23:20	23:18	-2		1.1573	1.1571	1.153 - 1.1576
PCB-52		24:46	24:42	-4		1.2284	*1.2270	1.222 - 1.2263
PCB-43/73		24:55	24:51	-3		1.2353	1.2346	1.230 - 1.2346
PCB-49/69		25:12	25:08	-4		1.2499	1.2486	1.242 - 1.2499
PCB-48		25:32	25:28	-4		1.2665	*1.2652	1.259 - 1.2636
PCB-44/47/65		25:47	25:43	-4		1.2785	*1.2772	1.269 - 1.2770
PCB-59/62/75		26:05	26:01	-3		1.2931	*1.2925	1.284 - 1.2919
PCB-42		26:17	26:13	-3		1.3033	*1.3027	1.296 - 1.3007
PCB-40/41/71		26:47	26:43	-3		1.3280	*1.3274	1.317 - 1.3250
PCB-64		27:00	26:56	-4		1.3388	*1.3376	1.331 - 1.3355
PCB-72		27:50	27:46	-4		0.8271	0.8266	0.826 - 0.8291
PCB-68		28:07	28:03	-4		0.8354	0.8354	0.835 - 0.8375
PCB-57		28:33	28:28	-4		0.8480	0.8476	0.847 - 0.8500
PCB-58		28:47	28:42	-4		0.8552	0.8548	0.854 - 0.8574
PCB-67		28:57	28:52	-4		0.8601	0.8598	0.859 - 0.8620
PCB-63		29:13	29:08	-4		0.8677	0.8678	0.866 - 0.8694
PCB-61/70/74/76		29:33	29:28	-4		0.8780	0.8777	0.875 - 0.8810

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-66		29:52	29:48	-4		0.8875	0.8872	0.886 - 0.8894
PCB-55		30:02	29:58	-4		0.8920	0.8922	0.891 - 0.8943
PCB-56		30:32	30:28	-4		0.9072	0.9074	0.907 - 0.9098
PCB-60		30:45	30:41	-4		0.9137	0.9135	0.913 - 0.9158
PCB-80		31:10	31:05	-4		0.9259	0.9257	0.924 - 0.9268
PCB-79		32:42	32:36	-5		0.9715	0.9710	0.970 - 0.9726
PCB-78		33:15	33:09	-5		0.9878	0.9874	0.986 - 0.9890
PCB-81	T	33:41	33:36	-5		1.0008	1.0004	0.999 - 1.0020
PCB-77	T/L	34:15	34:10	-4		1.0007	1.0007	0.999 - 1.0019
PCB-104L		25:42	25:37	-4	15	0.8129	0.8129	0.810 - 0.8199
PCB-95L		28:40	28:35	-4		1.1155	1.1159	1.112 - 1.1179
PCB-101L		31:36	31:31	-4		1.0000	1.0000	0.994 - 1.0065
PCB-111L		34:17	34:12	-5		1.0850	1.0848	1.079 - 1.0891
PCB-123L		36:15	36:09	-5	15	1.1469	1.1467	1.141 - 1.1511
PCB-118L		36:34	36:28	-5	15	1.1573	1.1572	1.151 - 1.1614
PCB-114L		37:06	37:00	-5	15	1.1739	1.1739	1.168 - 1.1780
PCB-105L		37:44	37:39	-5	15	1.1943	1.1943	1.188 - 1.1989
PCB-127L		39:13	39:07	-5		1.0000	1.0000	0.995 - 1.0053
PCB-126L		40:49	40:44	-5	15	1.2917	1.2924	1.285 - 1.2956
PCB-104	L	25:42	25:38	-4		1.0005	1.0005	0.998 - 1.0039
PCB-96		26:05	26:01	-3		1.0149	1.0155	1.013 - 1.0195
PCB-103		28:01	27:56	-4		1.0907	1.0904	1.087 - 1.0912
PCB-94		28:14	28:10	-4		1.0991	1.0994	1.097 - 1.1003
PCB-95		28:41	28:36	-4		1.1165	1.1164	1.113 - 1.1193
PCB-93/100		28:54	28:49	-4		1.1250	1.1249	1.120 - 1.1267
PCB-98/102		29:03	28:58	-4		1.1310	1.1308	1.127 - 1.1336
PCB-88/91		29:33	29:28	-4		1.1499	1.1503	1.143 - 1.1505
PCB-84		29:46	29:41	-4		1.1584	1.1588	1.157 - 1.1603
PCB-89		30:15	30:10	-4		1.1773	1.1773	1.175 - 1.1786
PCB-121		30:40	30:34	-5		1.1937	*1.1933	1.188 - 1.1922
PCB-92		31:02	30:57	-4		0.8564	0.8565	0.856 - 0.8589
PCB-90/101/113		31:37	31:31	-5		1.2306	1.2302	1.224 - 1.2307
PCB-83/99		32:12	32:06	-5		1.2535	*1.2532	1.245 - 1.2525
PCB-112		32:19	32:13	-5		1.2580	*1.2577	1.254 - 1.2574
PCB-86/87/97/109/119/125		32:41	32:36	-4		1.2724	1.2726	1.265 - 1.2756
PCB-85/116/117		33:25	33:19	-5		1.3008	1.3006	1.293 - 1.3007
PCB-110/115		33:36	33:32	-4		1.3078	1.3086	1.303 - 1.3092
PCB-82		33:54	33:49	-4		1.3198	*1.3201	1.316 - 1.3194
PCB-111		34:19	34:13	-5		1.3357	*1.3356	1.329 - 1.3330
PCB-120		34:46	34:41	-4		1.3531	*1.3536	1.348 - 1.3514
PCB-108/124		35:54	35:49	-5		1.3975	*1.3979	1.390 - 1.3967
PCB-107		36:09	36:03	-5		1.4072	*1.4071	1.401 - 1.4049
PCB-123	T	36:16	36:10	-5		1.0007	1.0007	1.000 - 1.0023
PCB-106		36:22	36:17	-5		1.0036	1.0040	1.003 - 1.0057
PCB-118	T	36:35	36:30	-5		1.0004	1.0007	0.999 - 1.0019
PCB-122		36:56	36:50	-5		1.0101	1.0101	1.009 - 1.0117

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-114	T	37:07	37:01	-5		1.0004	1.0004	0.999 - 1.0018
PCB-105	T	37:46	37:40	-5		1.0007	1.0007	0.999 - 1.0018
PCB-127		39:14	39:09	-5		1.0397	1.0399	1.037 - 1.0399
PCB-126	T/L	40:51	40:45	-5		1.0006	1.0003	1.000 - 1.0016
PCB-155L		31:22	31:17	-5	15	0.7904	0.7900	0.787 - 0.7951
PCB-153L		38:27	38:20	-6		0.9005	0.9002	0.899 - 0.9028
PCB-138L		39:41	39:35	-5		1.0000	1.0000	0.979 - 1.0208
PCB-167L		42:42	42:35	-6	15	1.0759	1.0758	1.071 - 1.0792
PCB-156L/157L		43:51	43:44	-7	15	1.1050	1.1047	1.100 - 1.1084
PCB-169L		47:05	46:58	-6	15	1.1862	1.1864	1.184 - 1.1864
PCB-155	L	31:24	31:18	-5		1.0008	1.0008	0.998 - 1.0031
PCB-152		31:35	31:30	-4		1.0069	1.0074	1.006 - 1.0096
PCB-150		31:45	31:40	-4		1.0122	1.0127	1.011 - 1.0144
PCB-136		32:07	32:02	-4		1.0236	1.0241	1.024 - 1.0268
PCB-145		32:24	32:20	-4		1.0330	1.0335	1.033 - 1.0358
PCB-148		33:56	33:50	-5		1.0816	1.0818	1.080 - 1.0830
PCB-135/151		34:31	34:25	-5		1.1004	1.1006	1.099 - 1.1038
PCB-154		34:46	34:41	-5		1.1085	1.1088	1.106 - 1.1107
PCB-144		35:05	34:59	-5		1.1183	1.1186	1.117 - 1.1199
PCB-147/149		35:27	35:20	-6		1.1301	1.1300	1.127 - 1.1326
PCB-134/143		35:45	35:39	-5		1.1394	1.1401	1.136 - 1.1409
PCB-139/140		36:03	35:57	-5		1.1490	1.1493	1.146 - 1.1515
PCB-131		36:15	36:09	-5		1.1553	1.1561	1.154 - 1.1571
PCB-142		36:23	36:18	-5		1.1599	1.1607	1.159 - 1.1621
PCB-132		36:42	36:37	-5		1.1700	1.1708	1.168 - 1.1728
PCB-133		37:13	37:07	-5		1.1863	1.1868	1.184 - 1.1872
PCB-165		37:37	37:31	-5		0.8808	0.8808	0.880 - 0.8825
PCB-146		37:52	37:46	-5		0.8867	0.8866	0.886 - 0.8882
PCB-161		37:59	37:54	-5		0.8897	0.8897	0.889 - 0.8914
PCB-153/168		38:29	38:24	-5		0.9014	0.9015	0.900 - 0.9040
PCB-141		38:40	38:34	-5		0.9054	0.9055	0.905 - 0.9075
PCB-130		39:04	38:58	-5		0.9150	0.9151	0.915 - 0.9172
PCB-137		39:18	39:12	-5		0.9202	0.9203	0.920 - 0.9224
PCB-164		39:25	39:19	-5		0.9230	0.9231	0.923 - 0.9252
PCB-129/138/160/163		39:44	39:38	-5		0.9304	0.9305	0.930 - 0.9349
PCB-158		40:06	40:00	-6		0.9393	0.9392	0.939 - 0.9409
PCB-128/166		40:57	40:51	-5		0.9590	0.9592	0.958 - 0.9617
PCB-159		41:58	41:51	-6		0.9828	0.9827	0.982 - 0.9839
PCB-162		42:15	42:08	-6		0.9895	0.9895	0.988 - 0.9907
PCB-167	T	42:43	42:37	-6		1.0006	1.0006	0.999 - 1.0016
PCB-156/157	T	43:53	43:46	-6		1.0006	1.0009	0.999 - 1.0025
PCB-169	T/L	47:06	46:59	-7		1.0006	1.0003	0.999 - 1.0015
PCB-188L		37:06	37:00	-5	15	0.8198	0.8198	0.817 - 0.8243
PCB-178L		40:09	40:03	-5		0.8875	0.8875	0.884 - 0.8916
PCB-180L		45:15	45:08	-7		1.0000	1.0000	0.996 - 1.0037
PCB-170L		46:30	46:23	-6	15	1.0276	1.0280	1.024 - 1.0317

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-189L		49:37	49:29	-7	15	1.0965	1.0965	1.093 - 1.1000
PCB-188	L	37:07	37:01	-5		1.0007	1.0007	1.000 - 1.0022
PCB-179		37:27	37:22	-5		1.0096	1.0099	1.009 - 1.0115
PCB-184		37:59	37:53	-6		1.0241	1.0238	1.023 - 1.0254
PCB-176		38:20	38:14	-5		1.0333	1.0334	1.033 - 1.0351
PCB-186		38:48	38:42	-5		1.0457	1.0459	1.045 - 1.0476
PCB-178		40:10	40:05	-5		1.0830	1.0832	1.081 - 1.0837
PCB-175		40:48	40:42	-5		1.1000	1.1003	1.098 - 1.1008
PCB-187		41:05	40:58	-6		1.1074	1.1074	1.106 - 1.1082
PCB-182		41:17	41:11	-5		1.1127	1.1131	1.111 - 1.1137
PCB-183/185		41:42	41:35	-6		1.1241	1.1241	1.123 - 1.1260
PCB-174		41:56	41:49	-6		1.1305	1.1305	1.129 - 1.1313
PCB-177		42:22	42:16	-6		1.1422	1.1422	1.140 - 1.1430
PCB-181		42:45	42:38	-6		1.1524	1.1525	1.151 - 1.1535
PCB-171/173		42:58	42:52	-6		1.1585	1.1586	1.156 - 1.1602
PCB-172		44:37	44:31	-6		0.8993	0.8995	0.899 - 0.9008
PCB-192		44:54	44:46	-7		0.9049	0.9048	0.904 - 0.9060
PCB-180/193		45:14	45:07	-7		0.9117	0.9117	0.911 - 0.9130
PCB-191		45:37	45:30	-6		0.9194	0.9197	0.919 - 0.9209
PCB-170		46:31	46:24	-7		0.9377	0.9377	0.937 - 0.9392
PCB-190		47:02	46:56	-6		0.9481	0.9484	0.948 - 0.9496
PCB-189	T/L	49:38	49:30	-7		1.0003	1.0005	0.999 - 1.0013
PCB-202L		42:28	42:21	-6	15	0.8211	0.8208	0.819 - 0.8249
PCB-194L		51:43	51:36	-7		1.0000	1.0000	0.996 - 1.0040
PCB-205L		52:11	52:04	-7	15	1.0092	1.0092	1.004 - 1.0138
PCB-202	L	42:29	42:23	-5		1.0006	1.0009	0.999 - 1.0027
PCB-201		43:24	43:18	-6		1.0223	1.0224	1.020 - 1.0237
PCB-204		44:05	43:58	-6		1.0381	1.0382	1.036 - 1.0388
PCB-197		44:19	44:12	-7		1.0437	1.0435	1.042 - 1.0445
PCB-200		44:25	44:19	-6		1.0462	1.0463	1.045 - 1.0473
PCB-198/199		47:12	47:05	-6		1.1115	1.1118	1.109 - 1.1132
PCB-196		47:53	47:45	-7		0.9175	0.9172	0.917 - 0.9189
PCB-203		48:05	47:57	-7		0.9212	0.9210	0.921 - 0.9226
PCB-195		49:24	49:17	-7		0.9465	0.9464	0.946 - 0.9481
PCB-194		51:44	51:37	-7		0.9914	0.9914	0.991 - 0.9926
PCB-205	L	52:13	52:05	-7		1.0005	1.0002	0.999 - 1.0013
PCB-208L		49:08	49:01	-7	15	0.9503	0.9501	0.947 - 0.9534
PCB-206L		53:56	53:49	-7	15	1.0431	1.0432	1.038 - 1.0472
PCB-208	L	49:10	49:02	-7		1.0005	1.0003	0.999 - 1.0013
PCB-207		50:05	49:58	-7		1.0193	1.0193	1.019 - 1.0205
PCB-206	L	53:58	53:50	-7		1.0005	1.0002	1.000 - 1.0015
PCB-209L		55:35	55:26	-8	15	1.0748	1.0744	1.069 - 1.0784
DCB Decachlorobiphenyl	L	55:35	55:28	-7		1.0002	1.0005	0.999 - 1.0012

Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

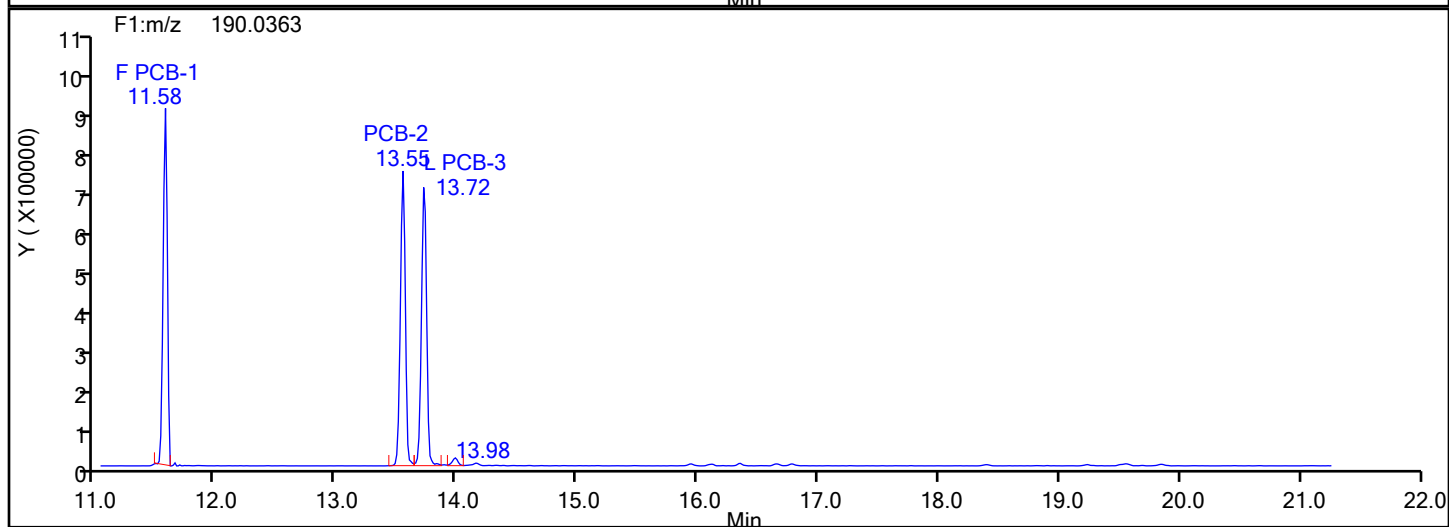
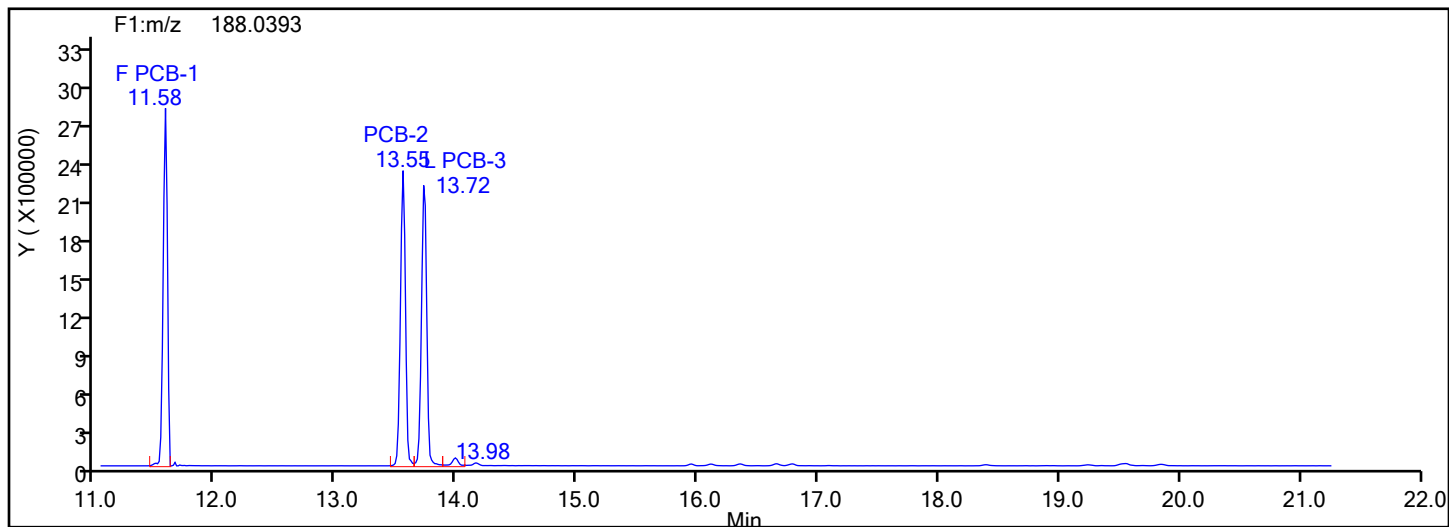
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Sample Line#: 1

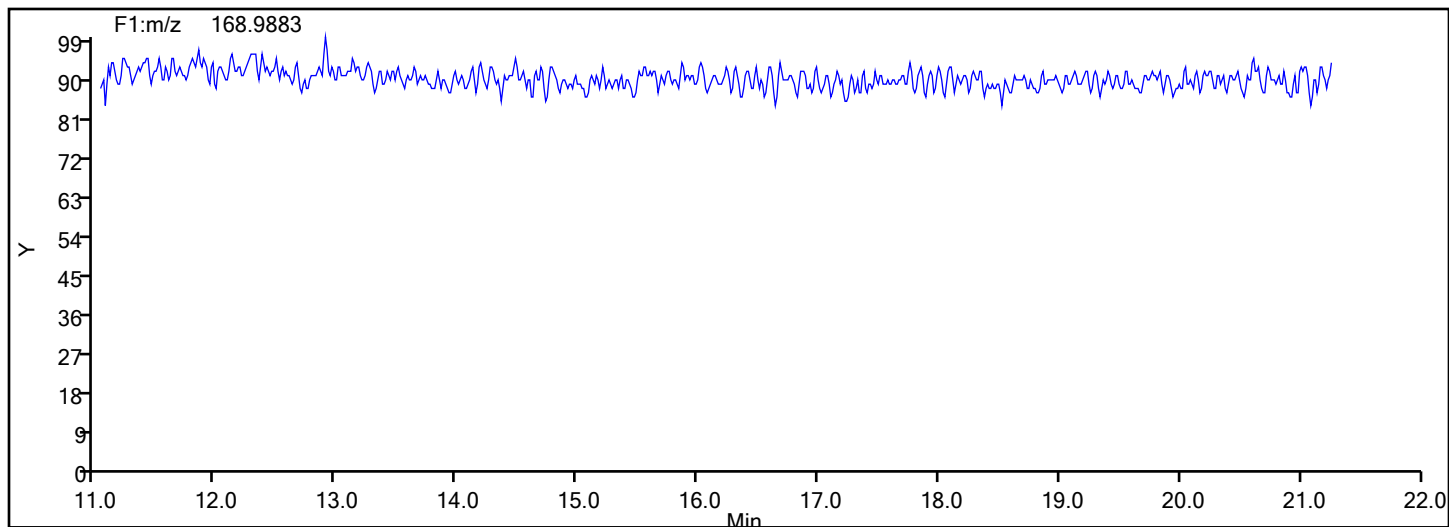
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

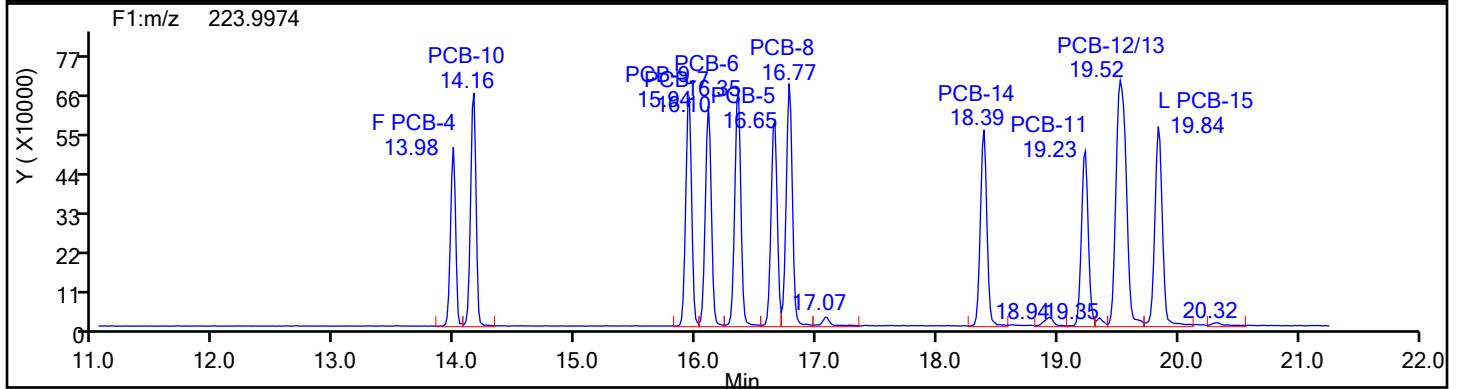
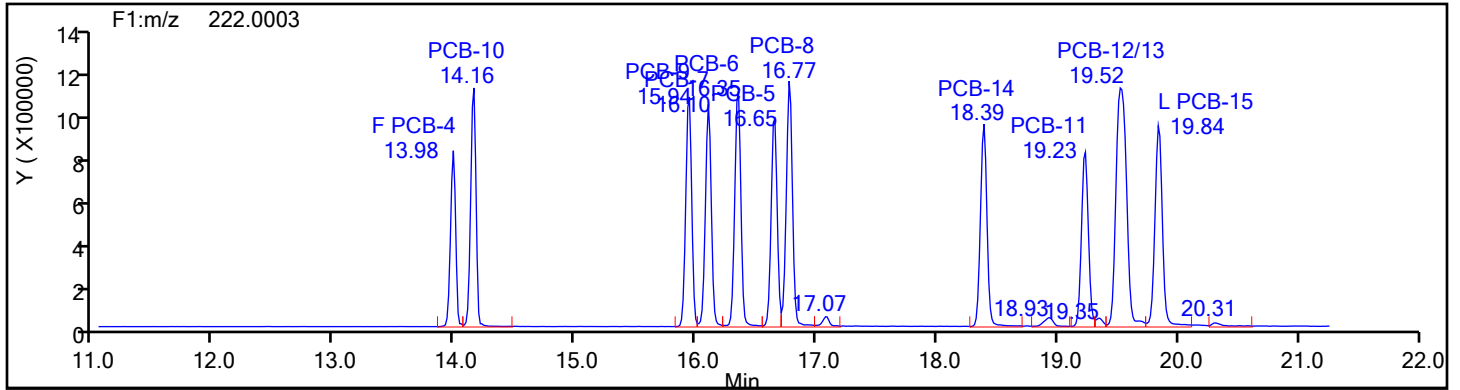
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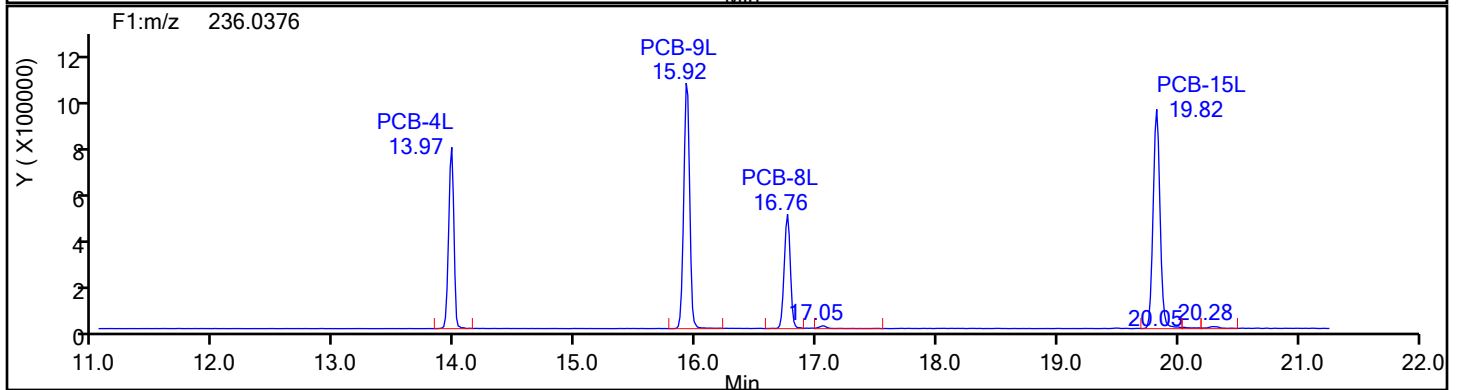
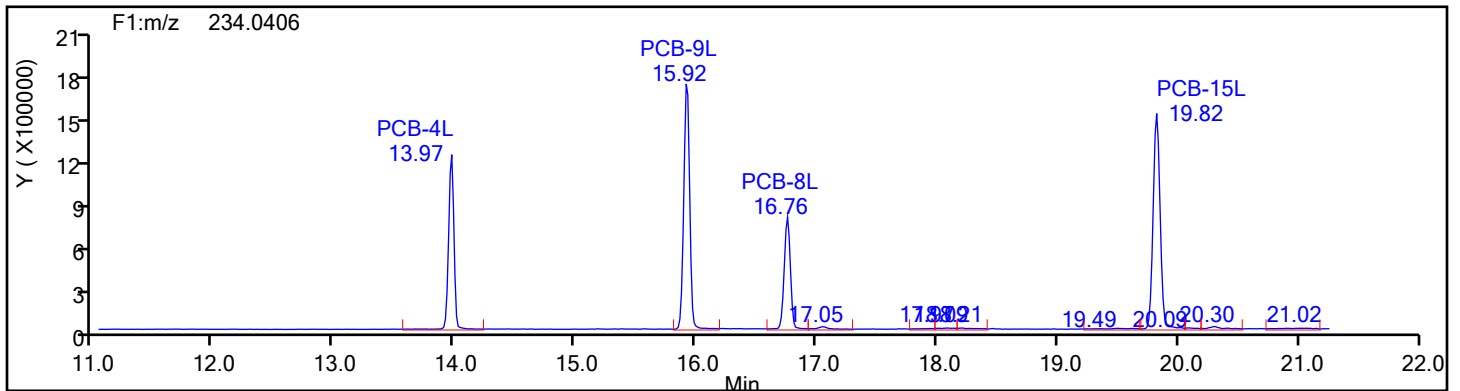
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

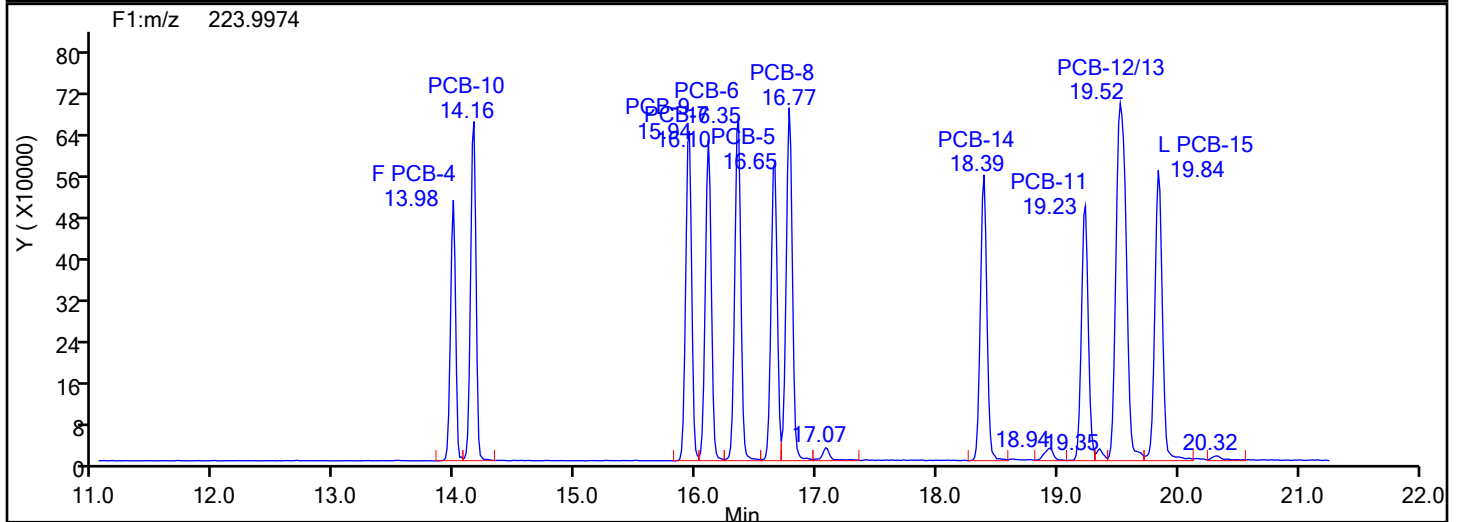
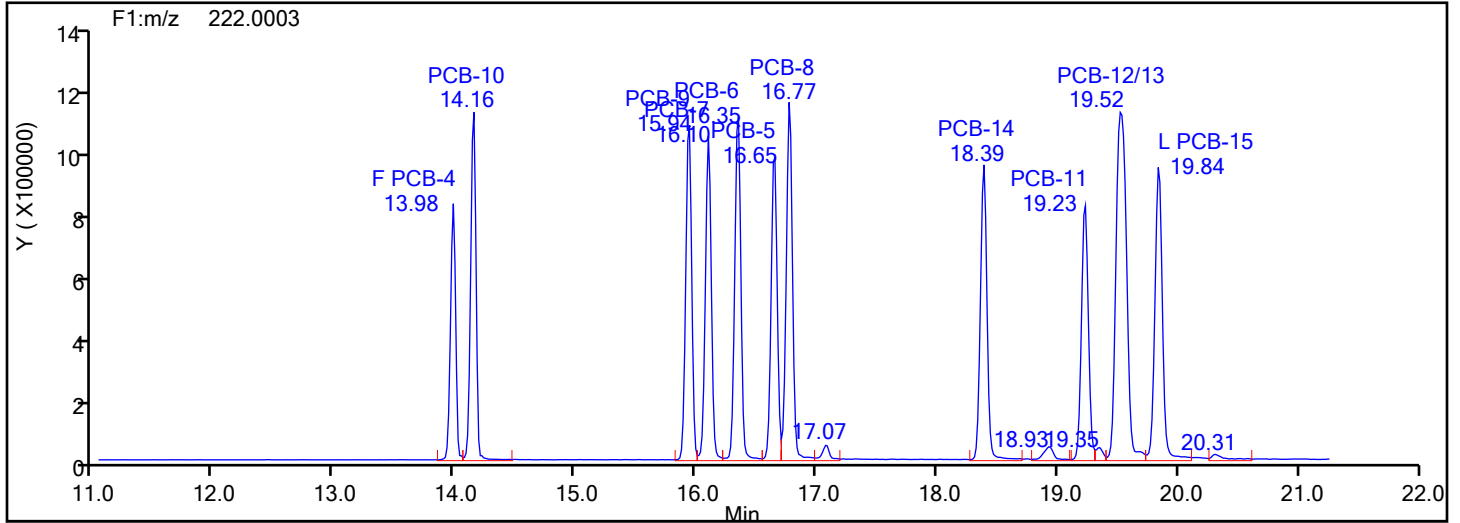
Worklist#: 87502

Sample Line#: 1

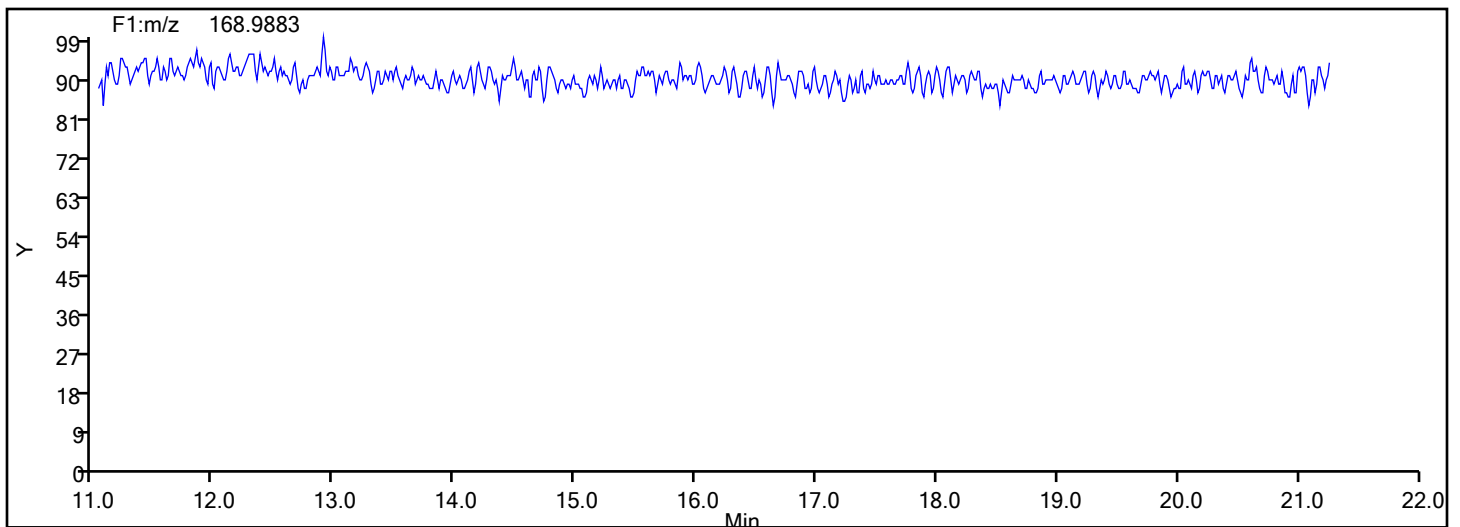
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

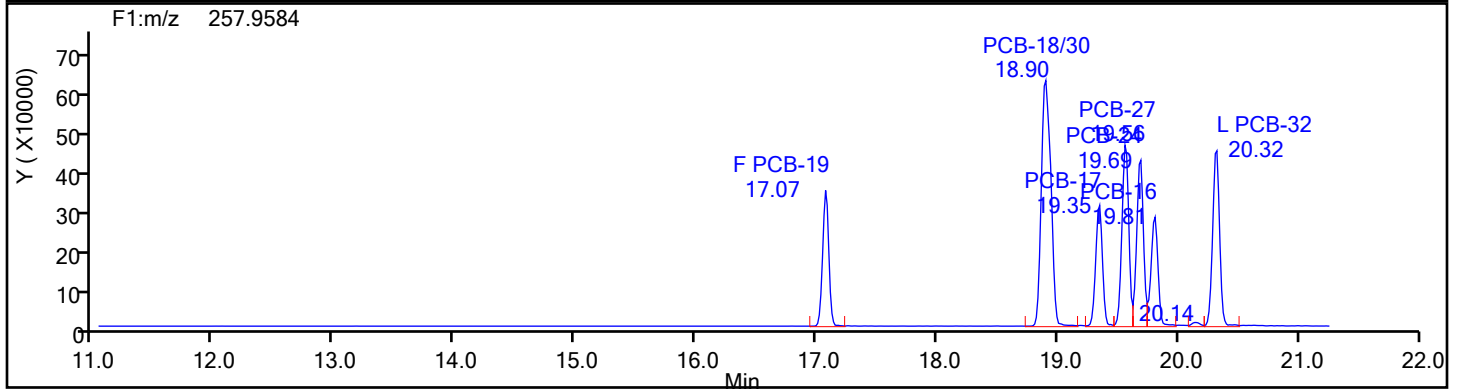
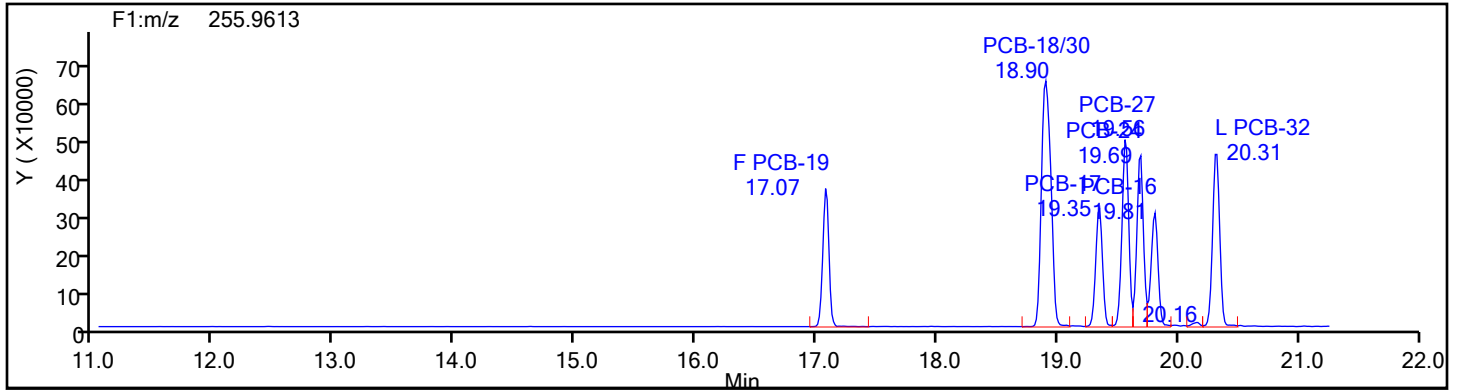
Worklist#: 87502

Sample Line#: 1

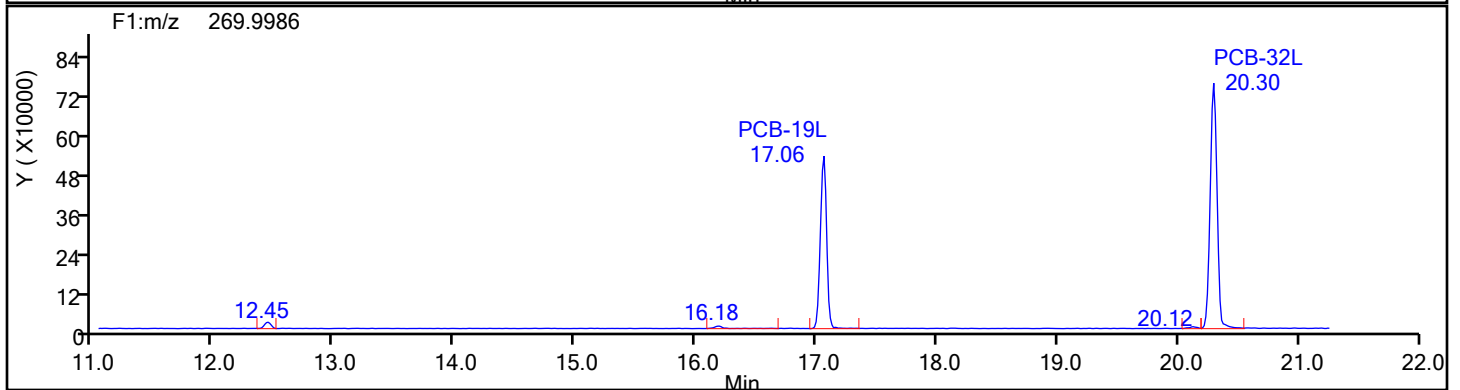
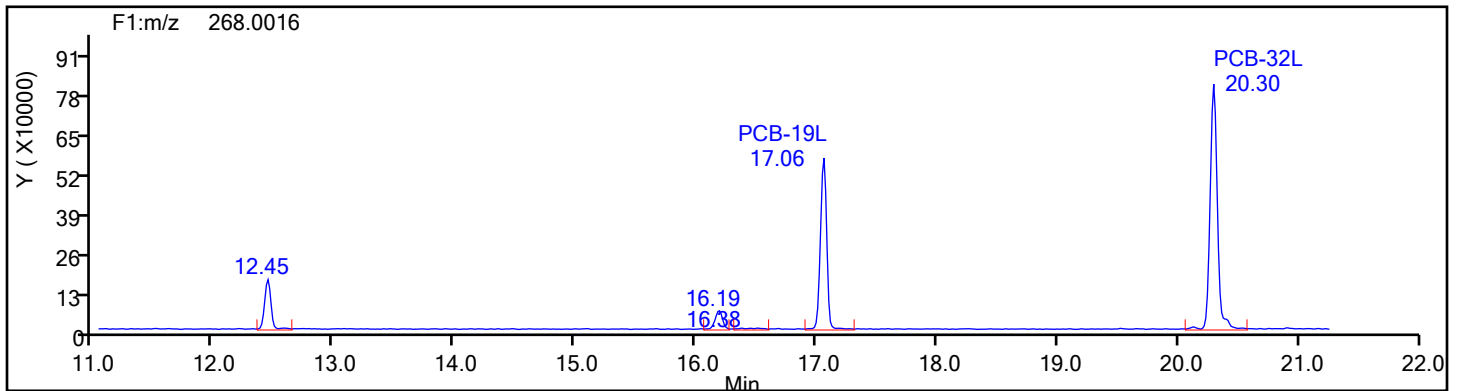
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

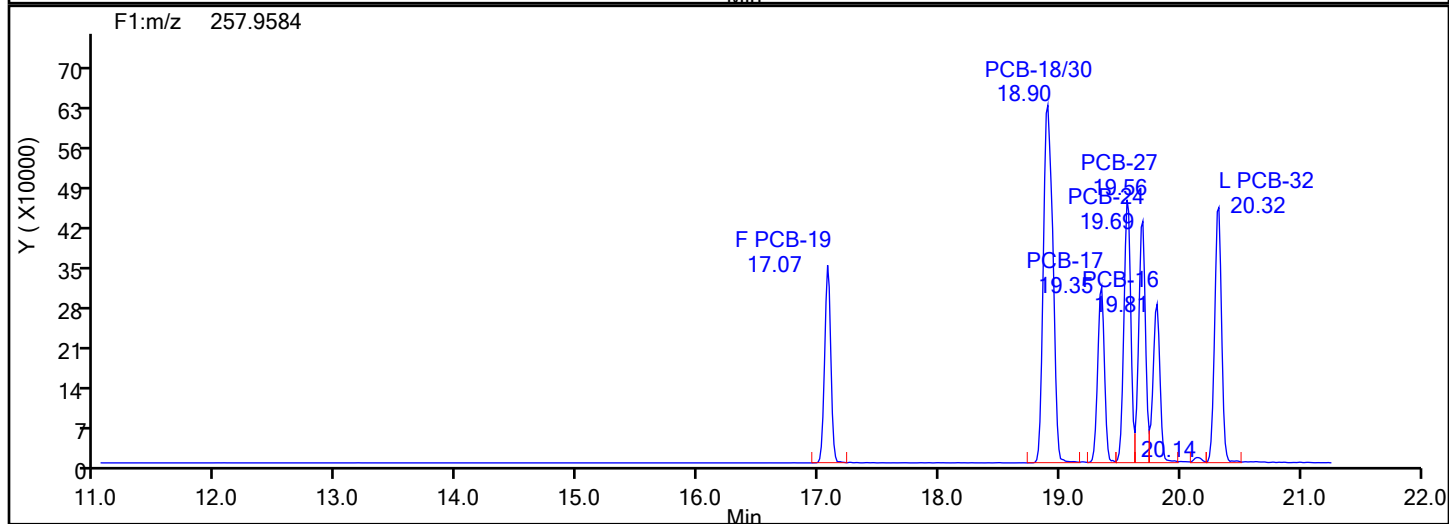
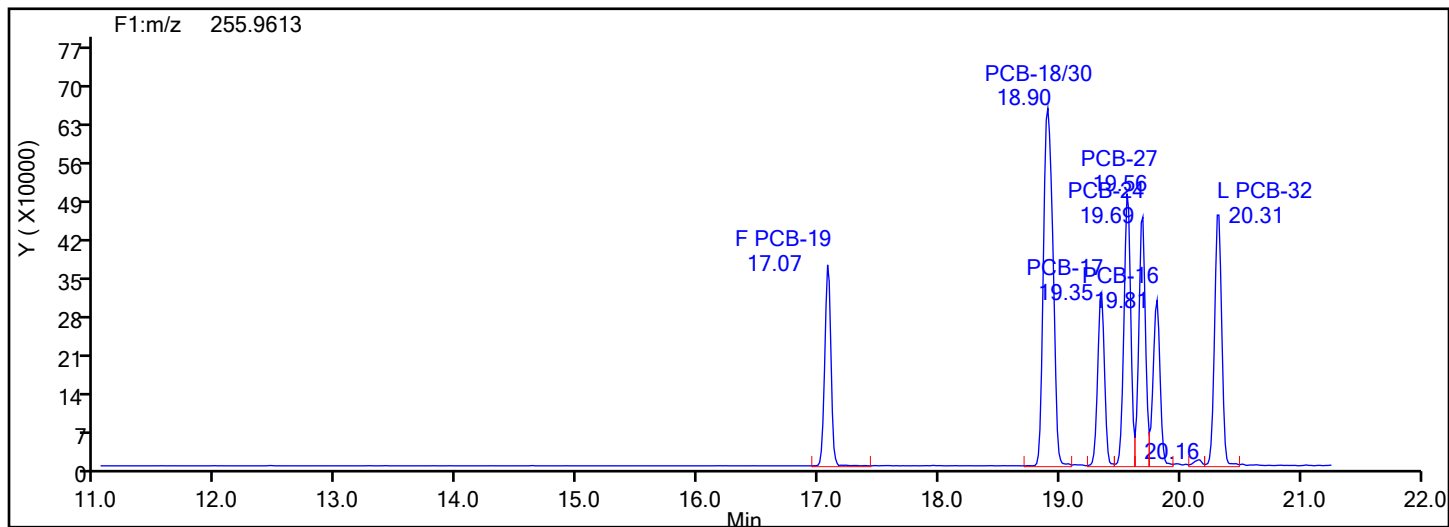
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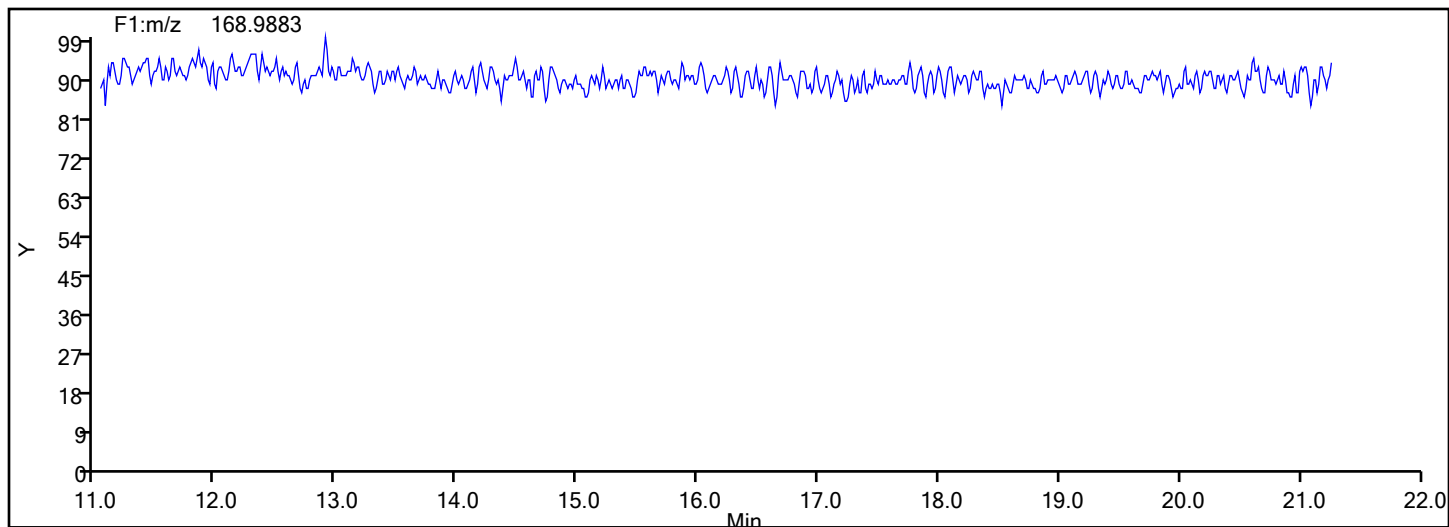
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

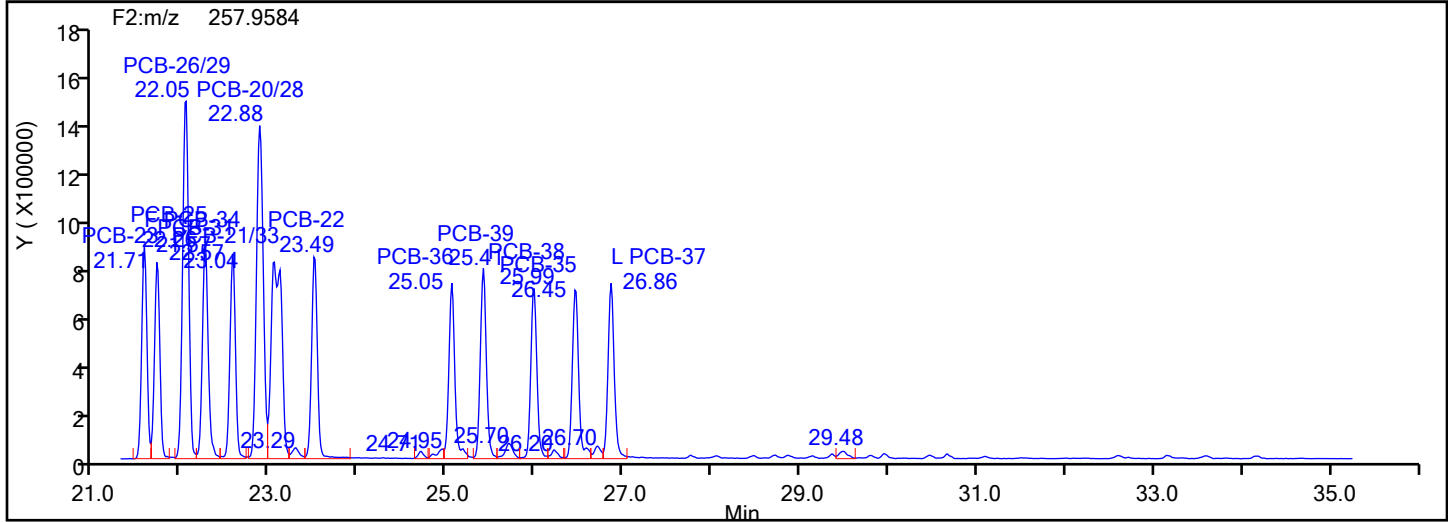
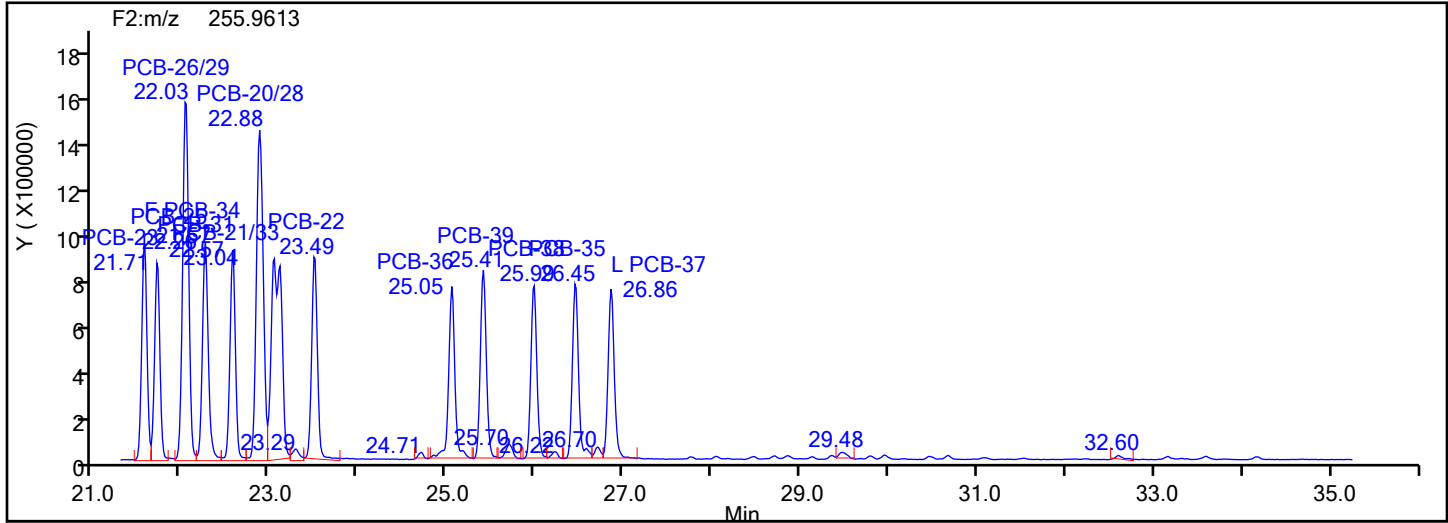
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Sample Line#: 1

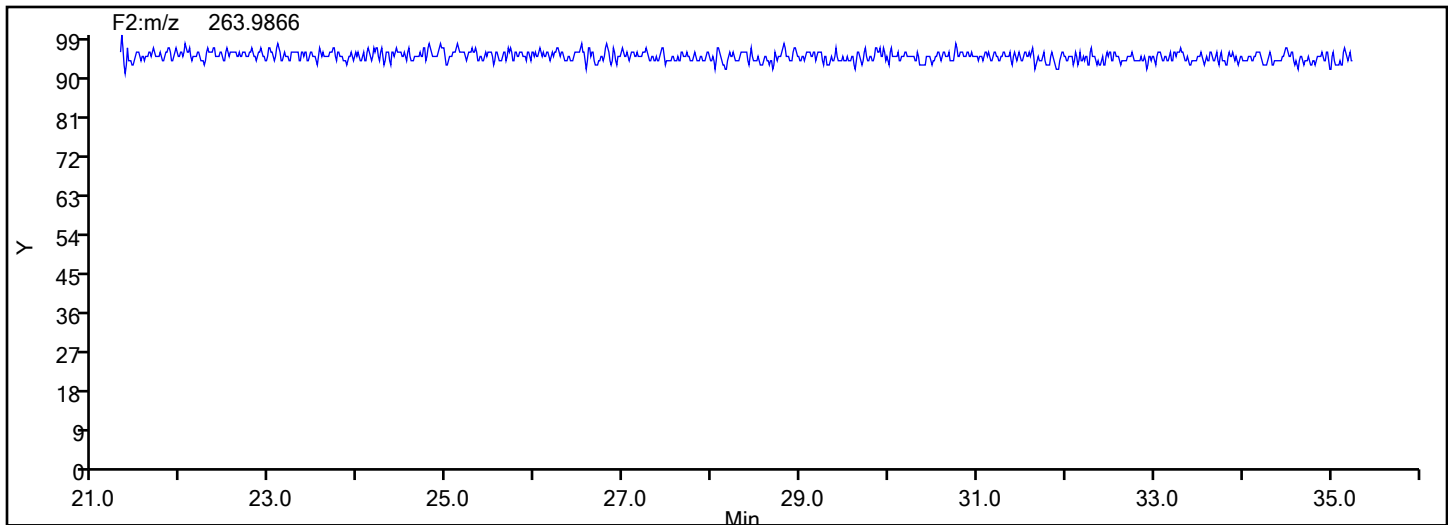
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

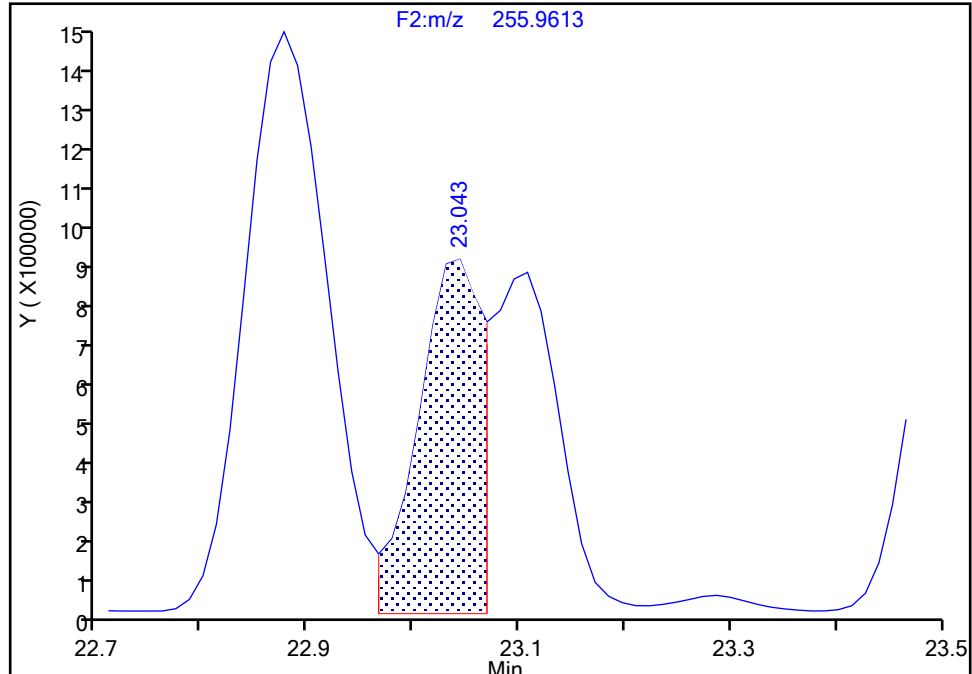
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

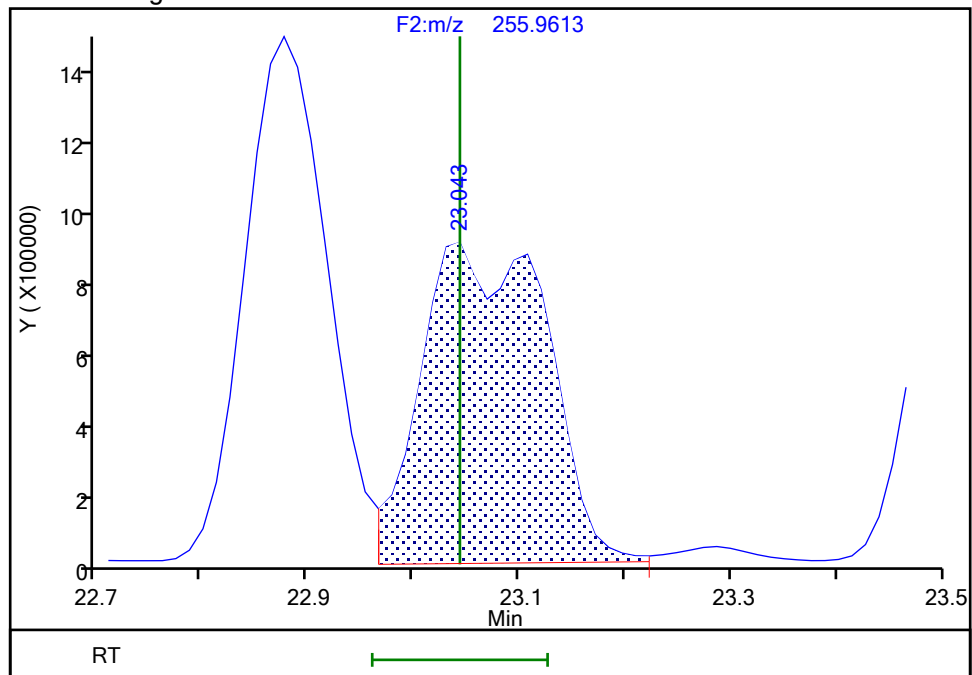
RT: 23.04
Area: 3568724
Amount: 49.679506
Amount Units: pg/ul

Processing Integration Results



RT: 23.04
Area: 7219535
Amount: 100.0830
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:42:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

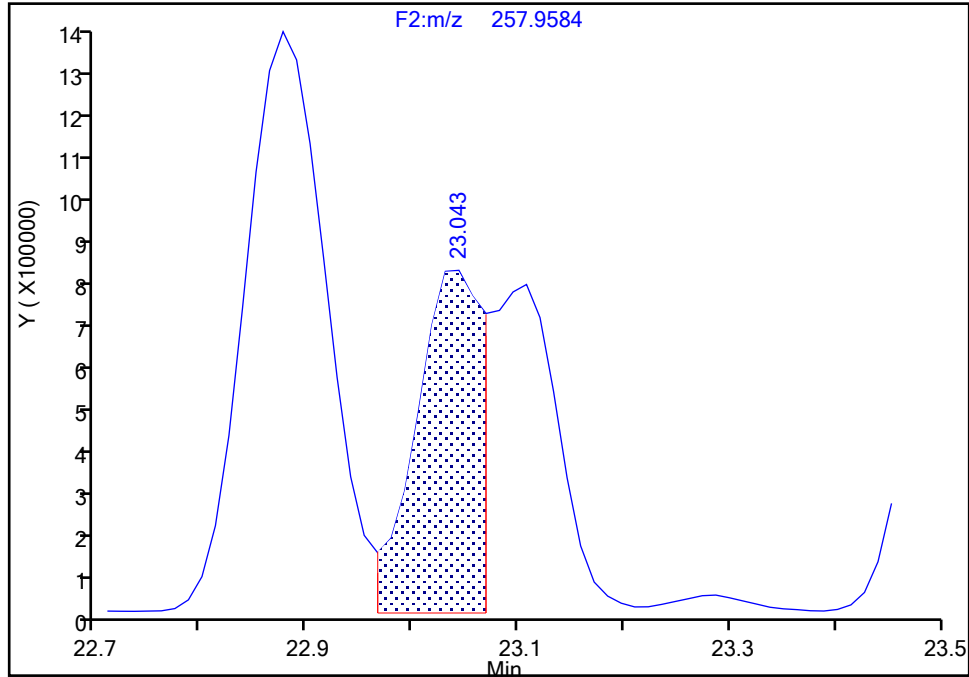
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

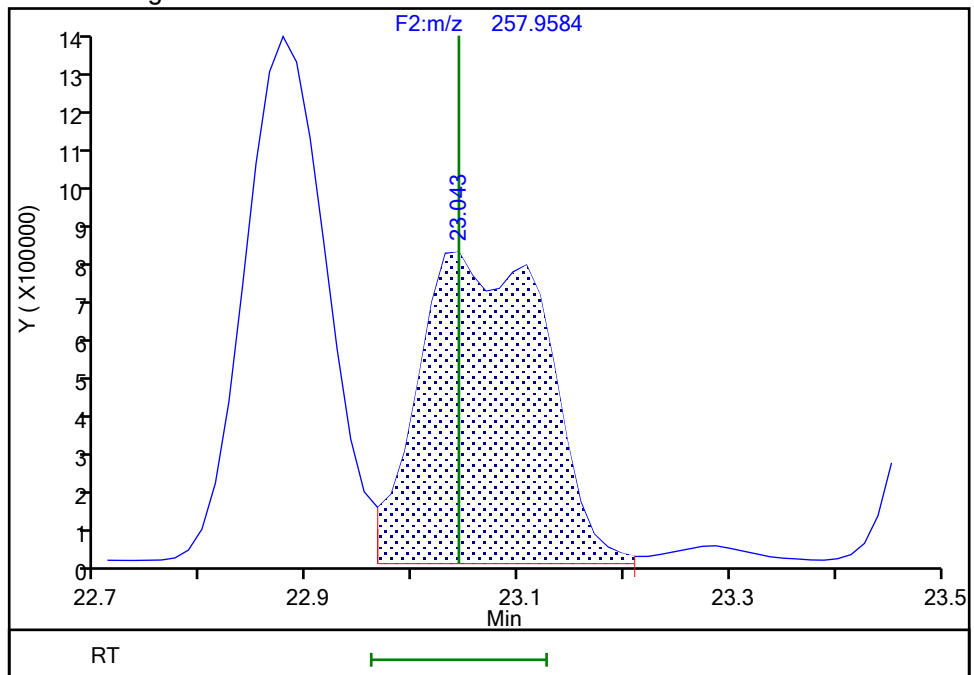
RT: 23.04
Area: 3439560
Amount: 49.679506
Amount Units: pg/ul

Processing Integration Results



RT: 23.04
Area: 6899163
Amount: 100.0830
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:42:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

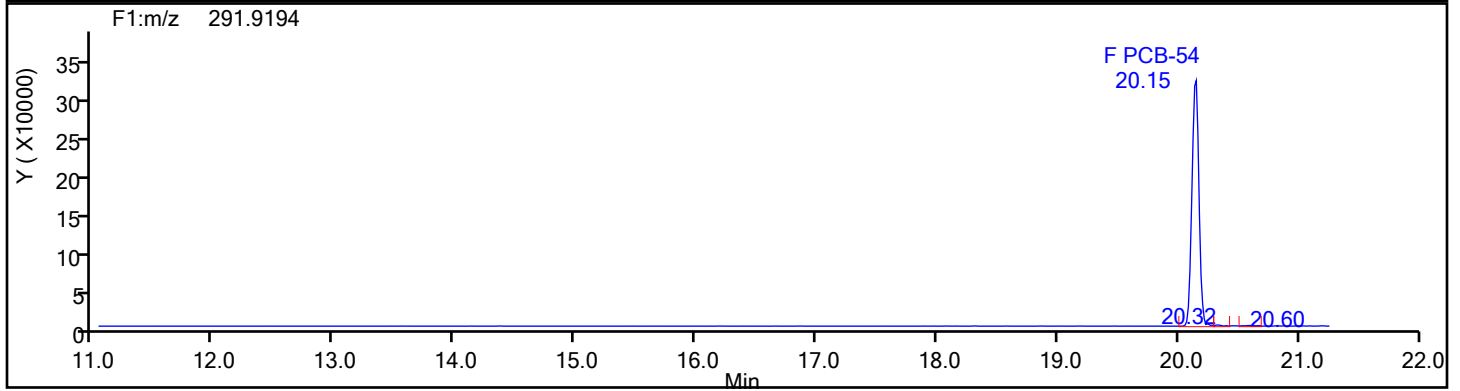
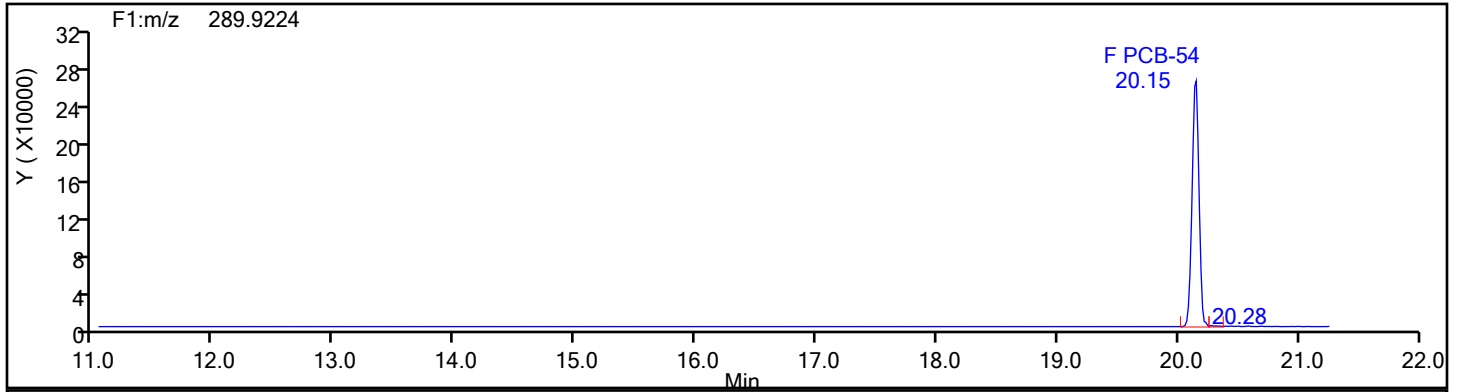
Worklist#: 87502

Sample Line#: 1

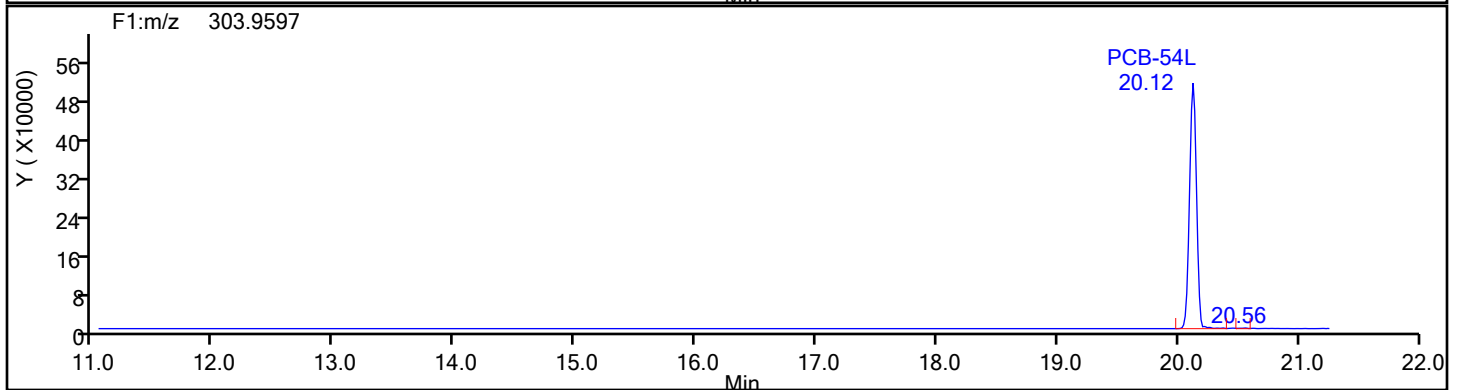
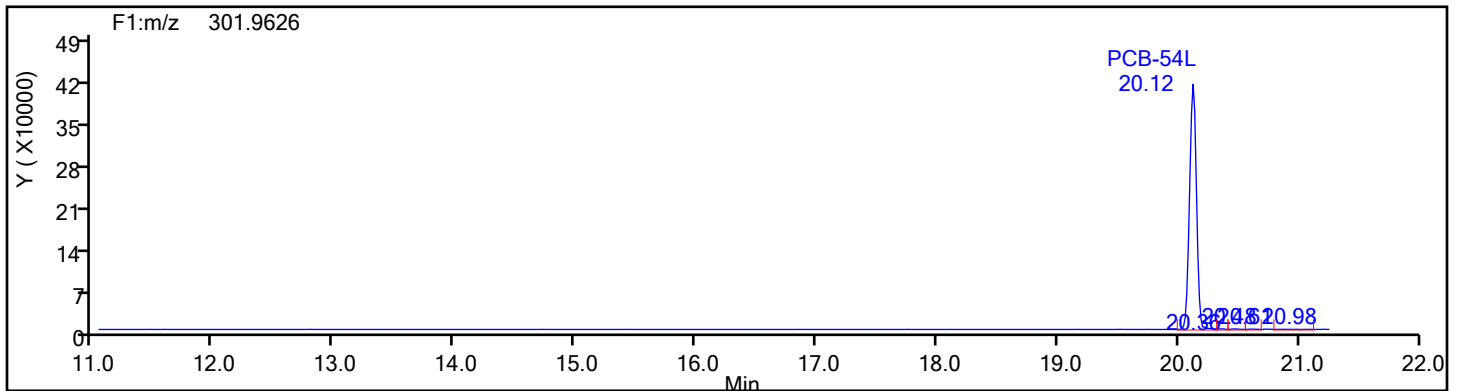
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

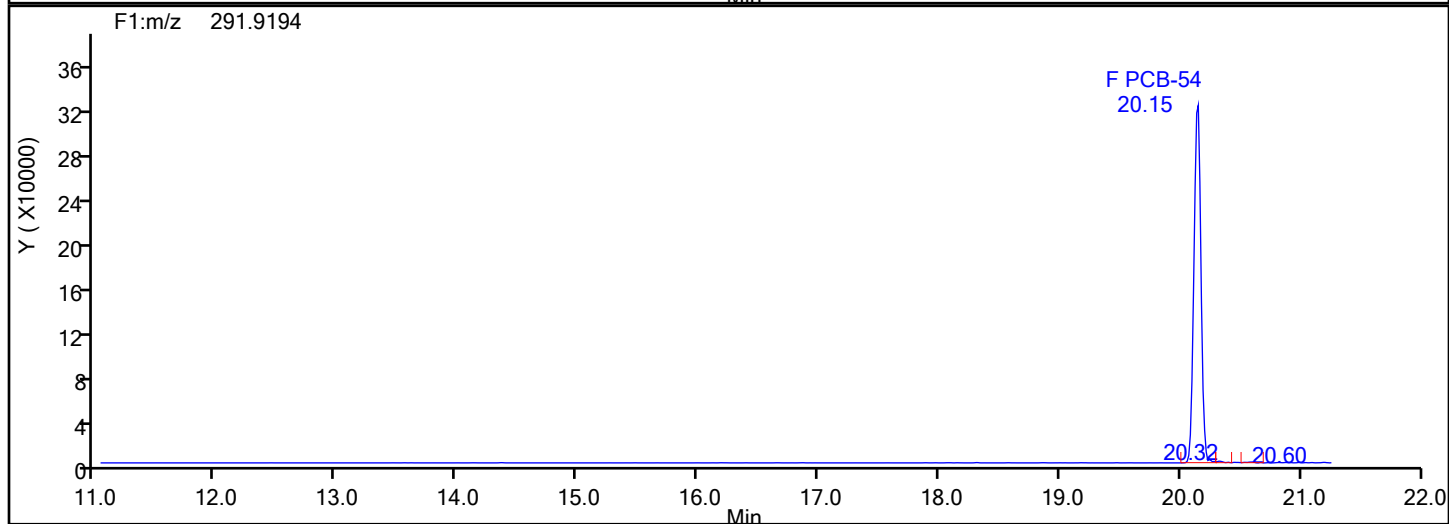
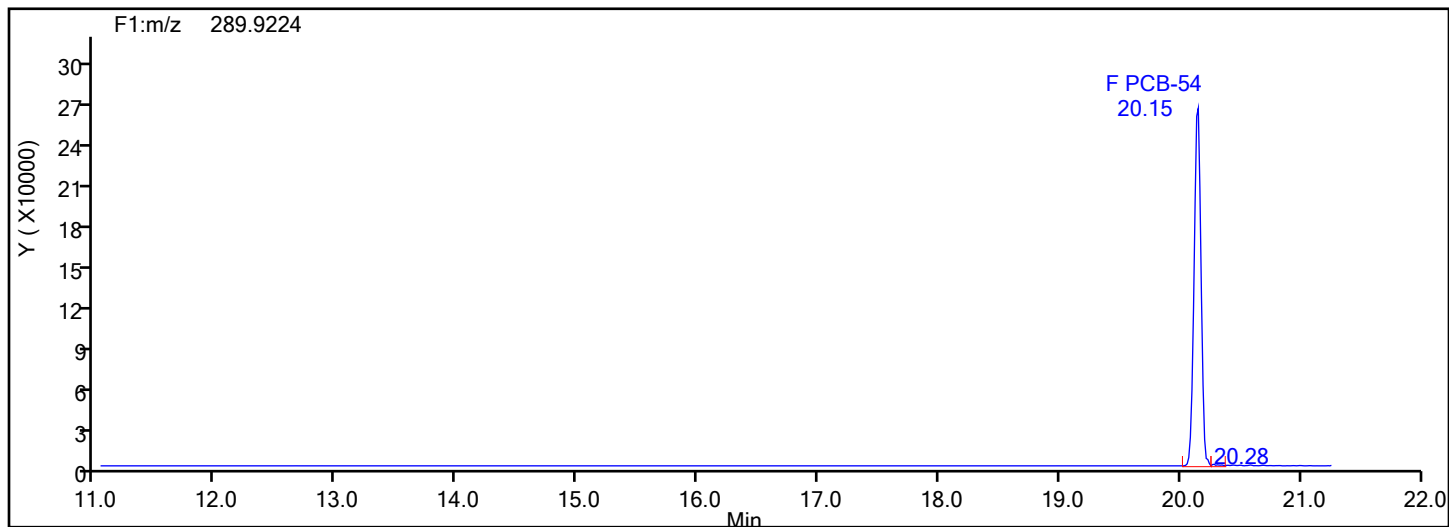
Worklist#: 87502

Sample Line#: 1

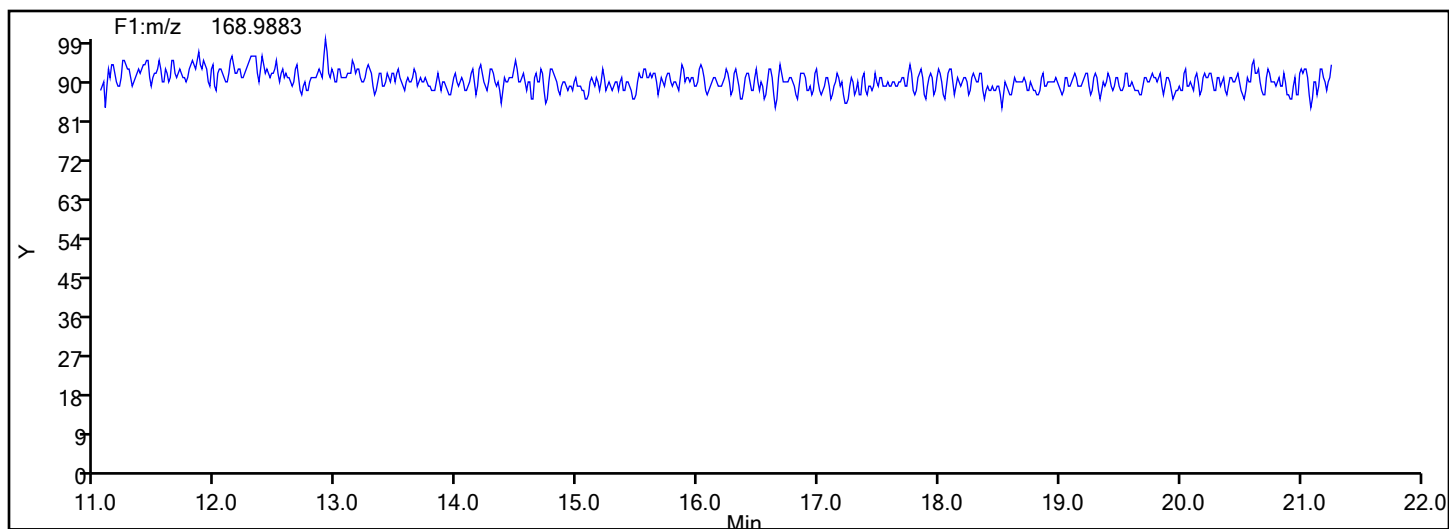
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

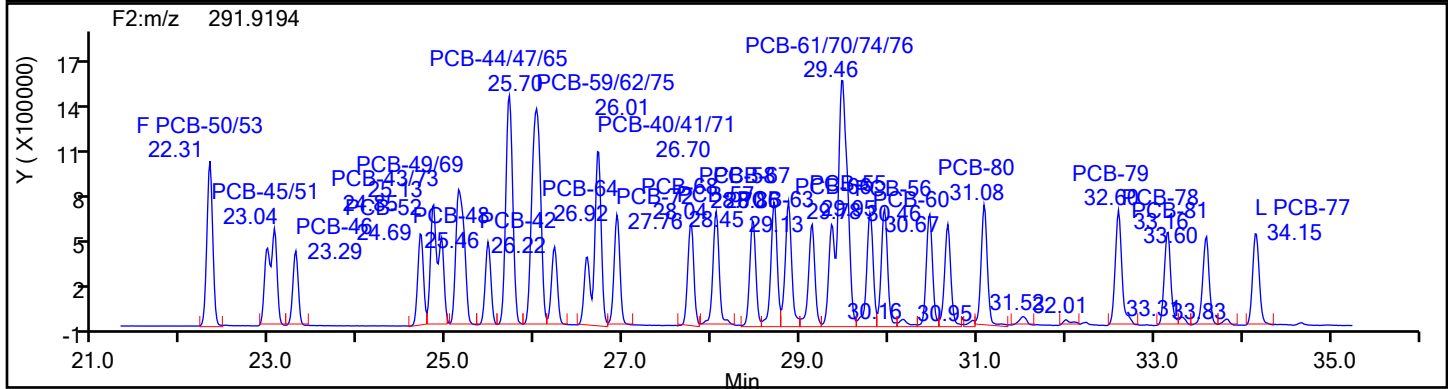
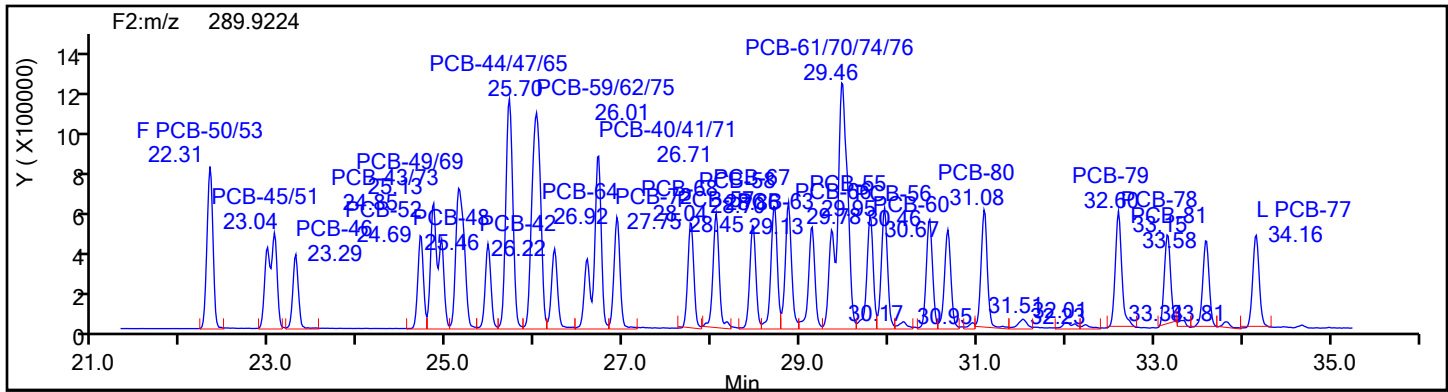
Worklist#: 87502

Sample Line#: 1

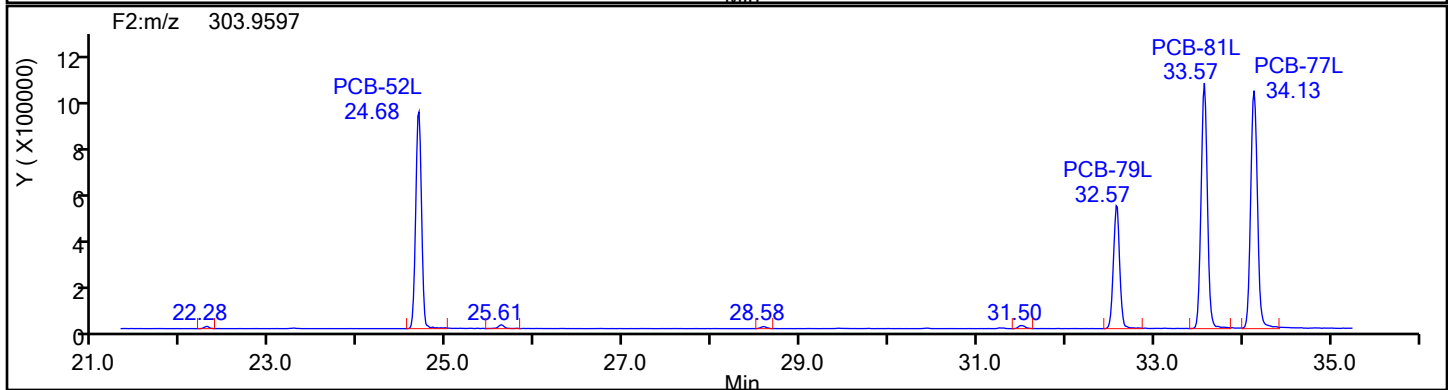
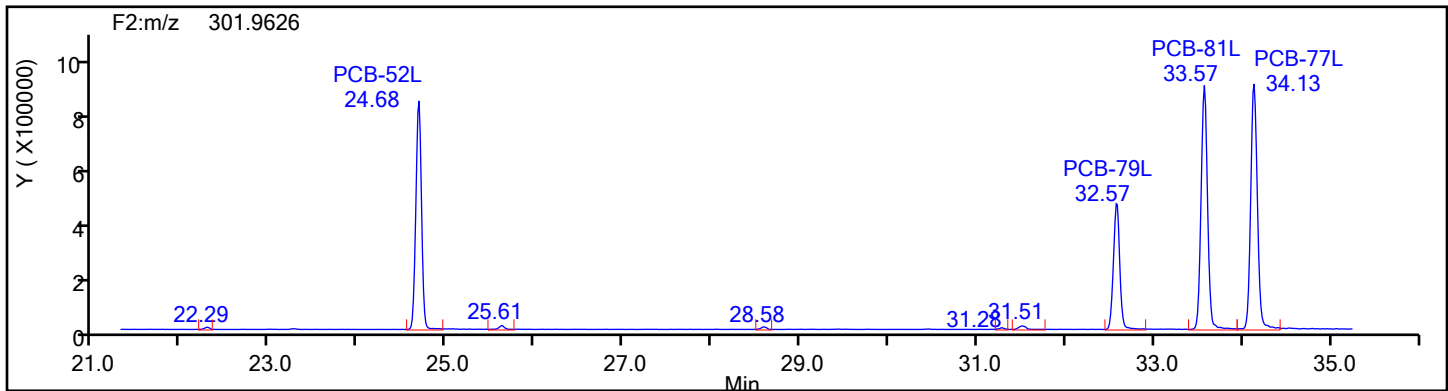
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

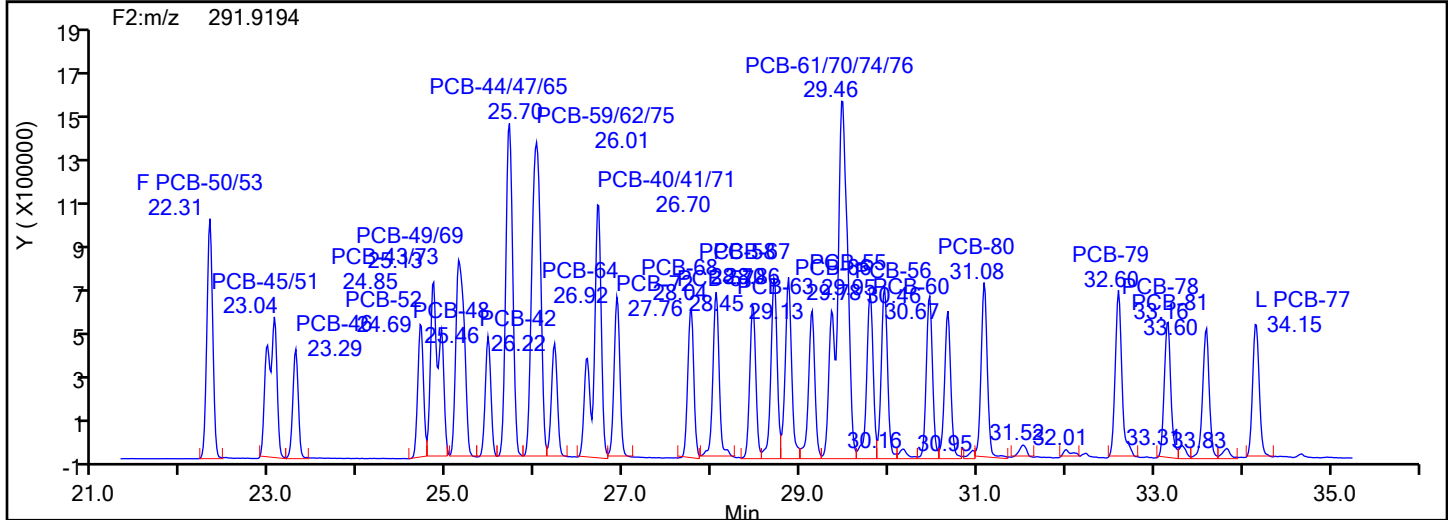
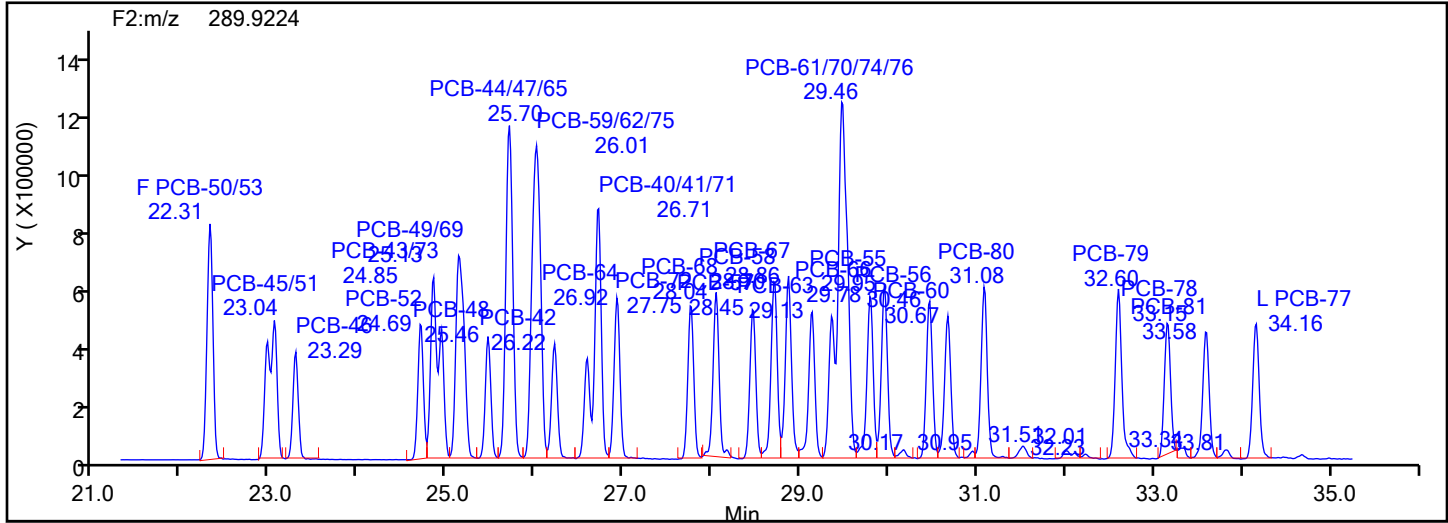
Worklist#: 87502

Sample Line#: 1

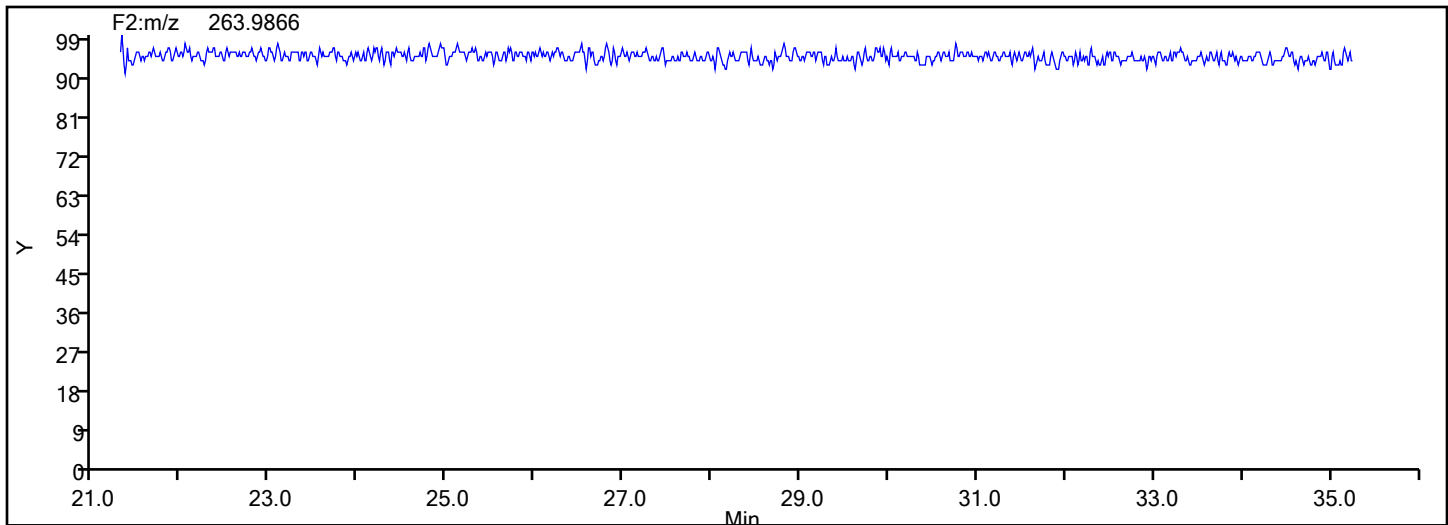
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

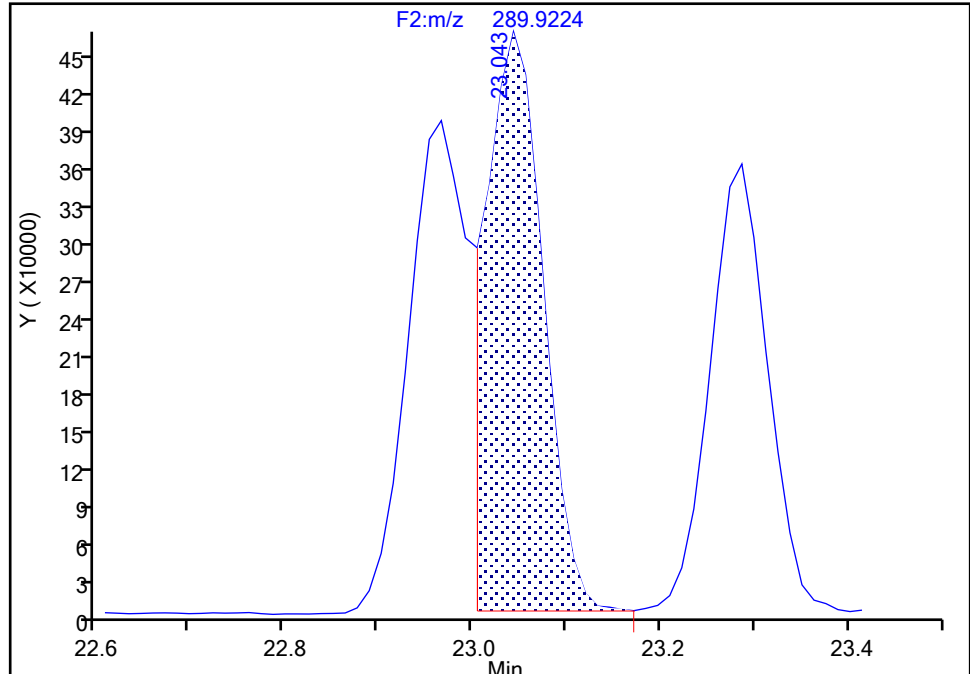
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Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

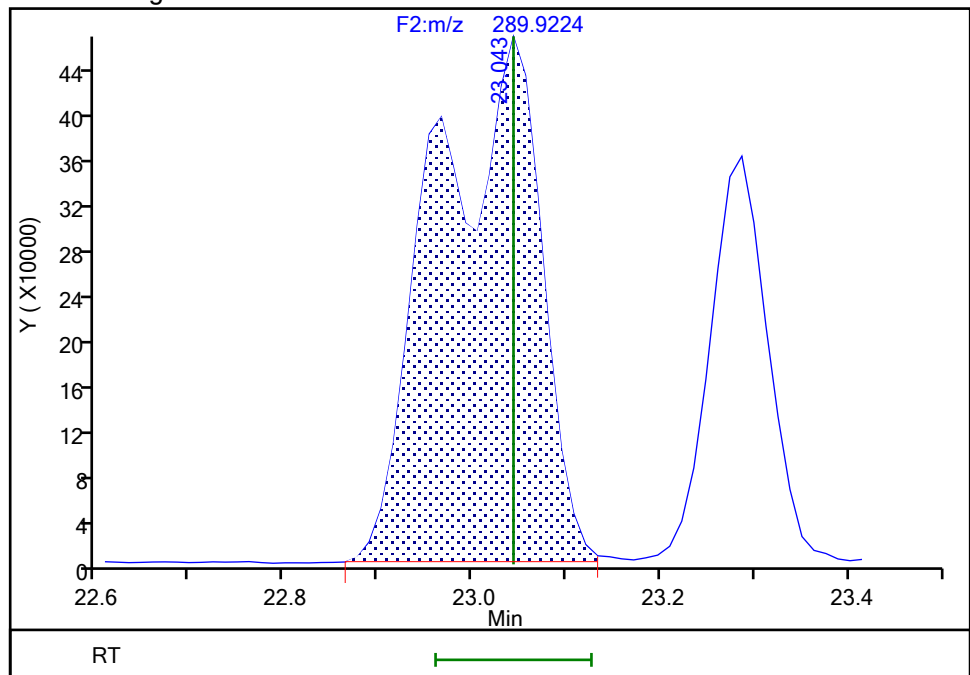
RT: 23.04
Area: 1923736
Amount: 79.386321
Amount Units: pg/ul

Processing Integration Results



RT: 23.04
Area: 3630230
Amount: 100.3937
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:42:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

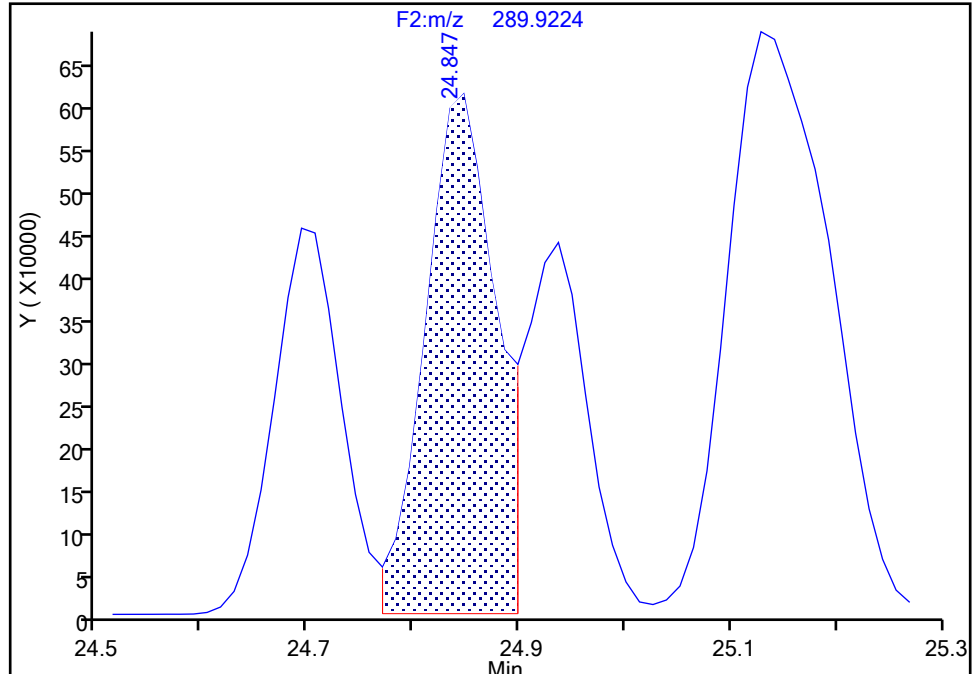
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Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

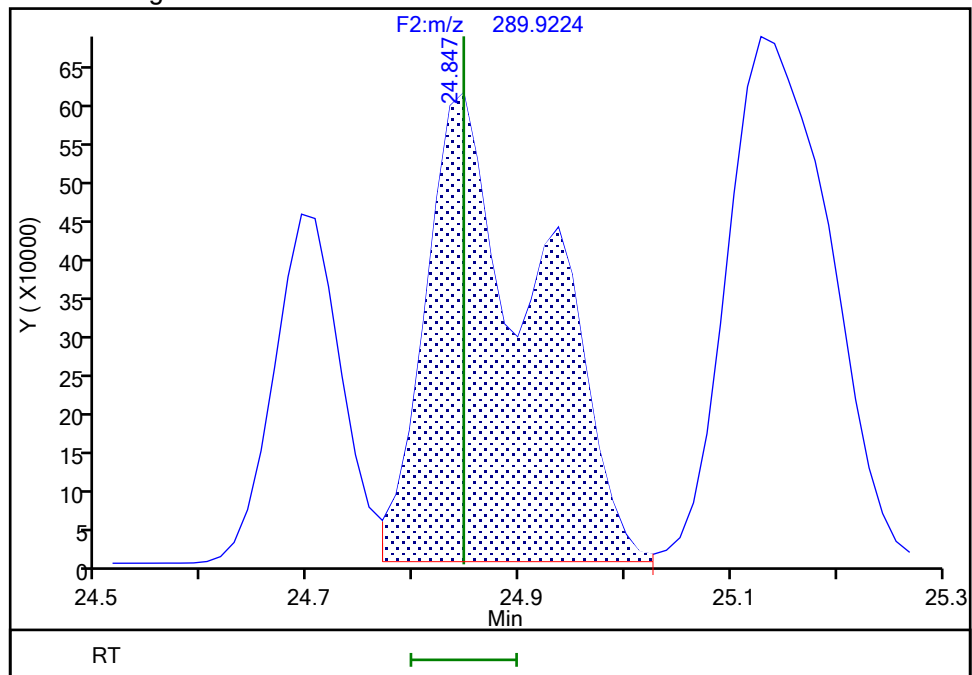
RT: 24.85
Area: 2808330
Amount: 61.830302
Amount Units: pg/ul

Processing Integration Results



RT: 24.85
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Amount: 99.685323
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:43:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

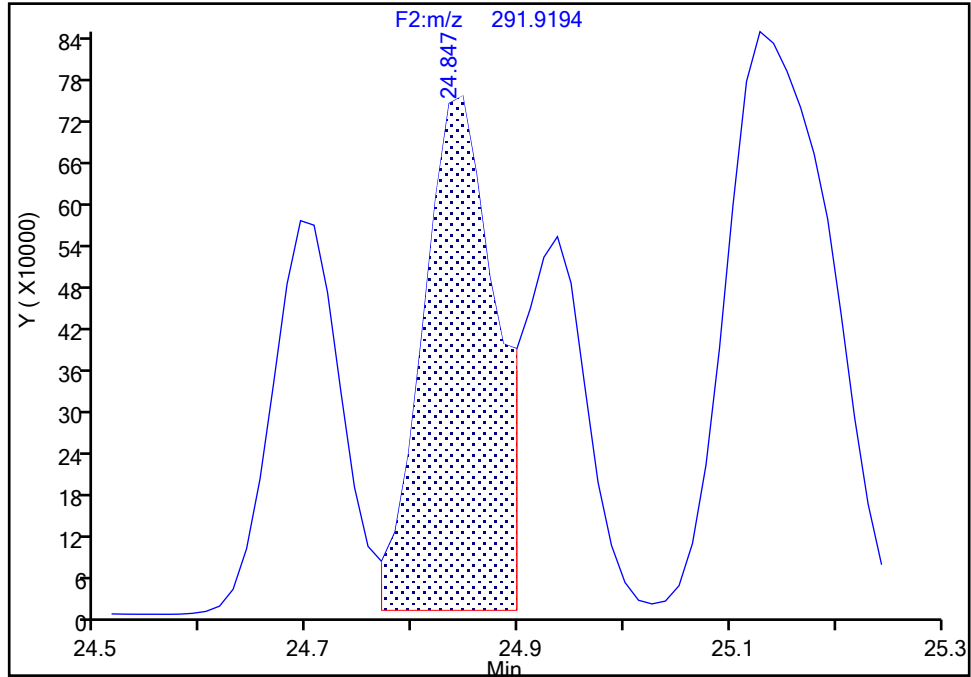
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Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

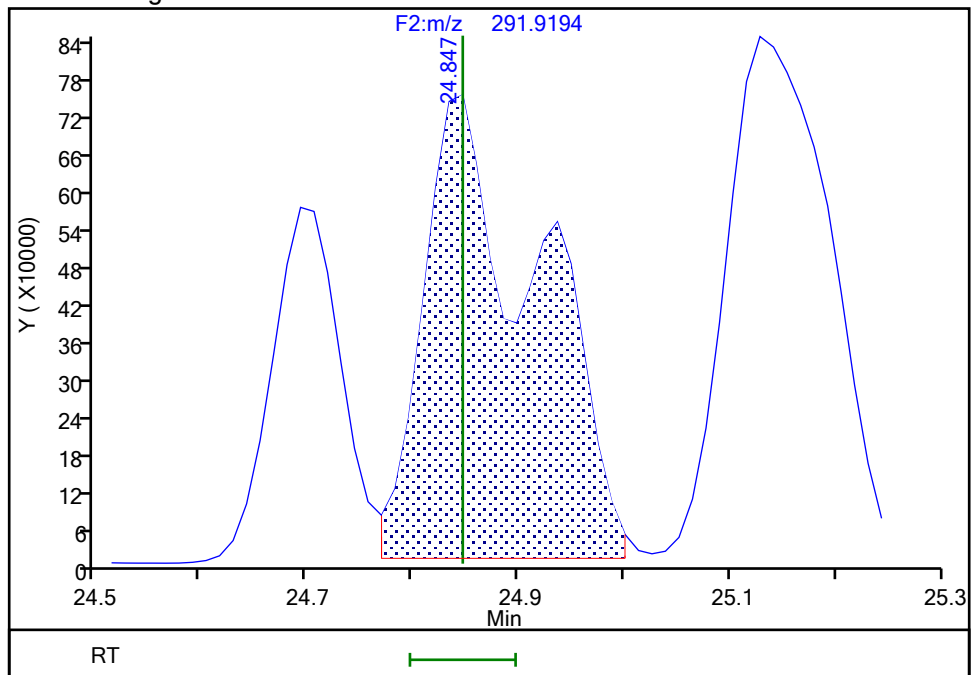
RT: 24.85
Area: 3471884
Amount: 61.830302
Amount Units: pg/ul

Processing Integration Results



RT: 24.85
Area: 5591642
Amount: 99.685323
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:43:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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BASFHWC-G-01224064
9/6/2024
2:43:26 PM

Eurofins Knoxville

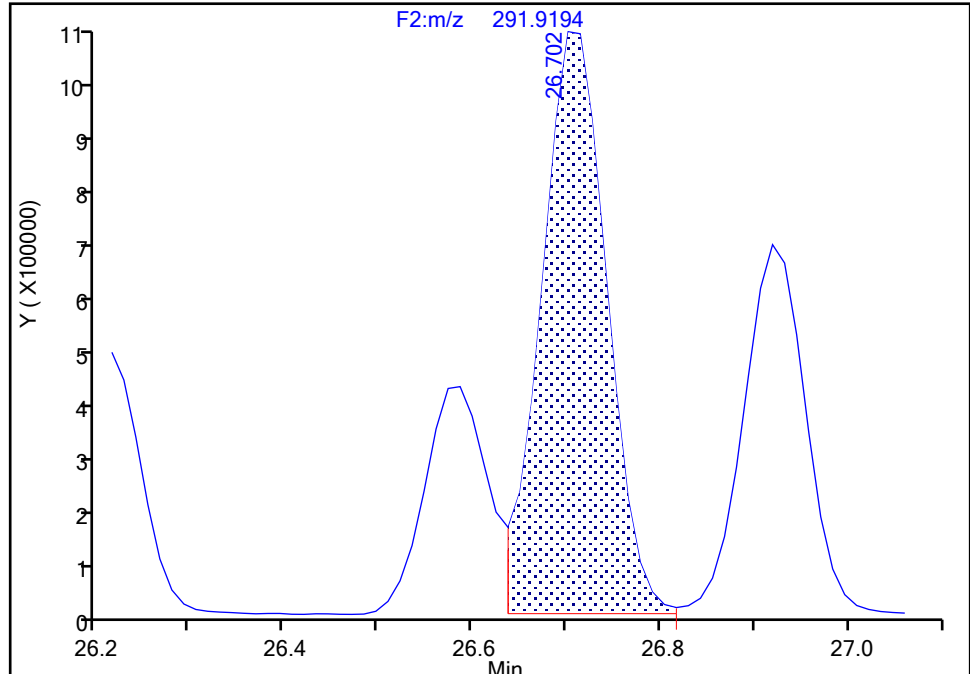
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

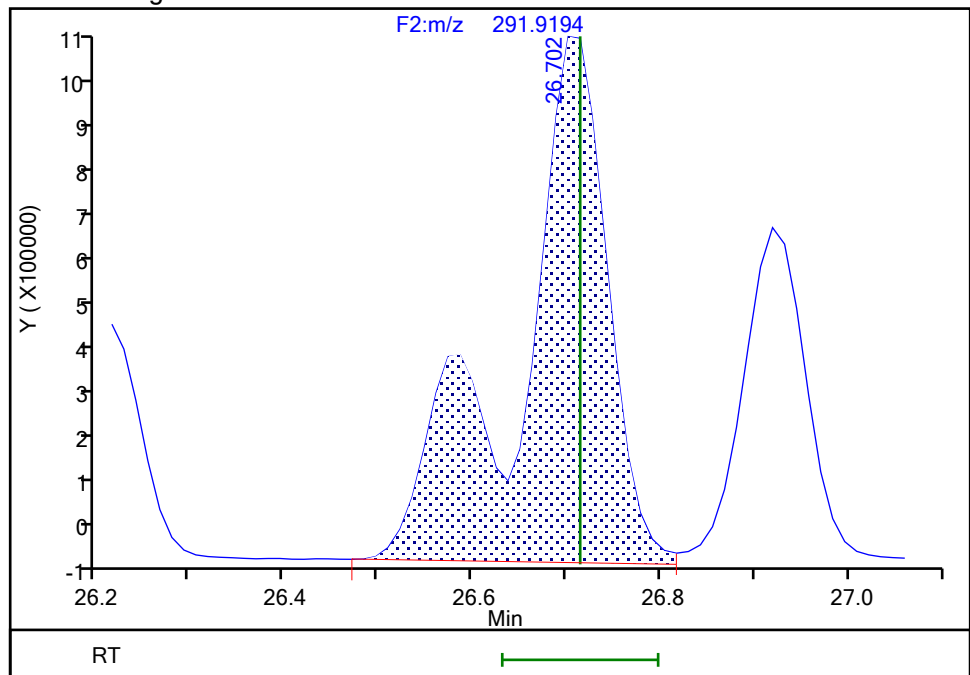
RT: 26.70
Area: 5172664
Amount: 123.9420
Amount Units: pg/ul

Processing Integration Results



RT: 26.70
Area: 7191260
Amount: 147.1119
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:43:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

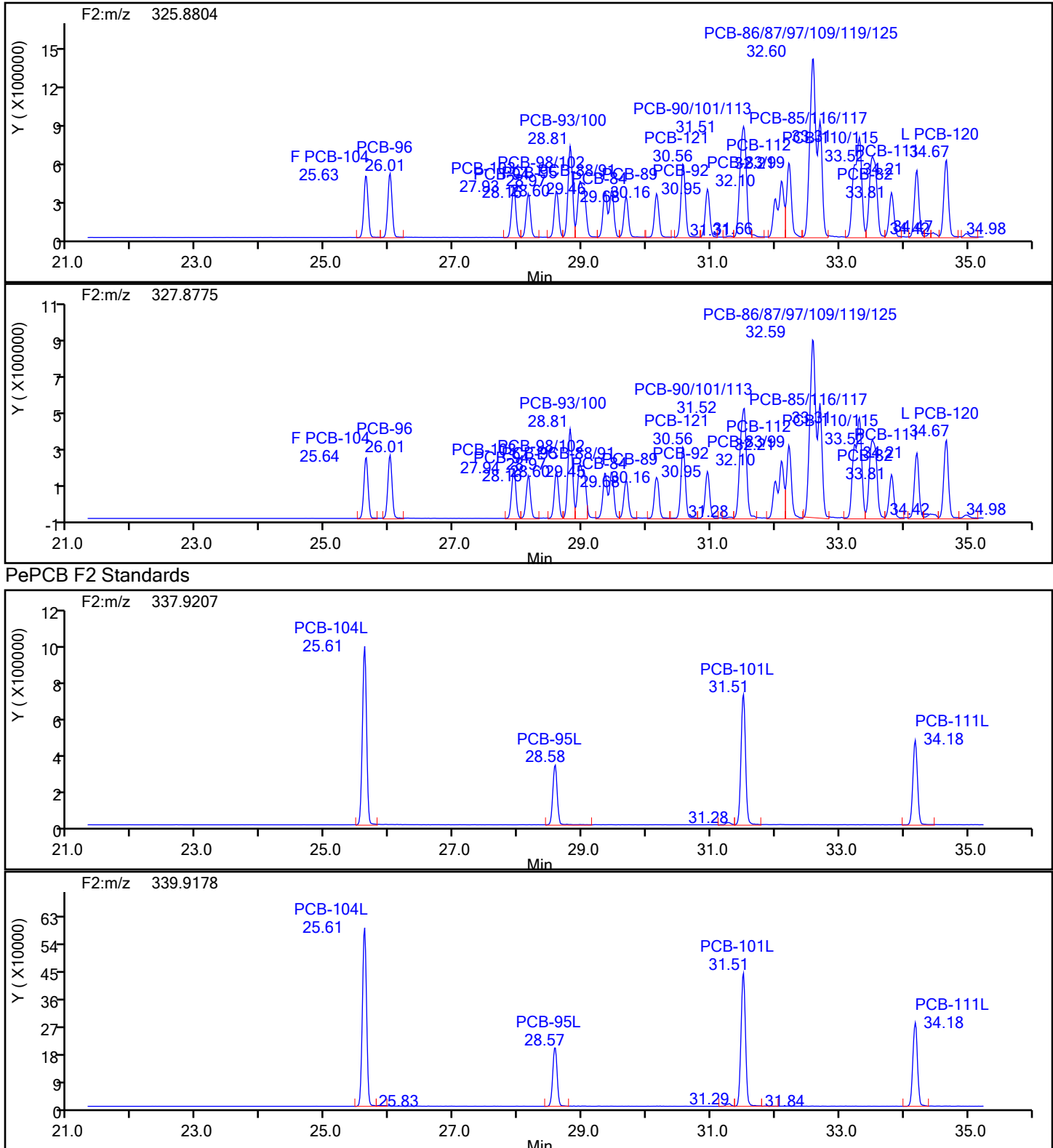
Worklist#: 87502

Sample Line#: 1

Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

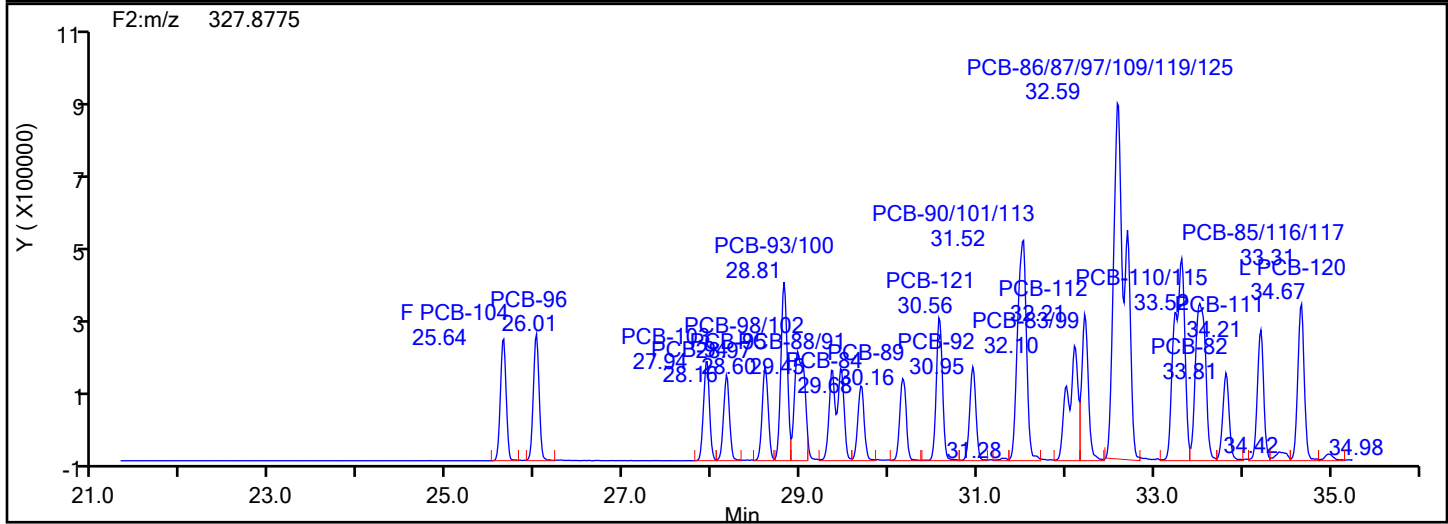
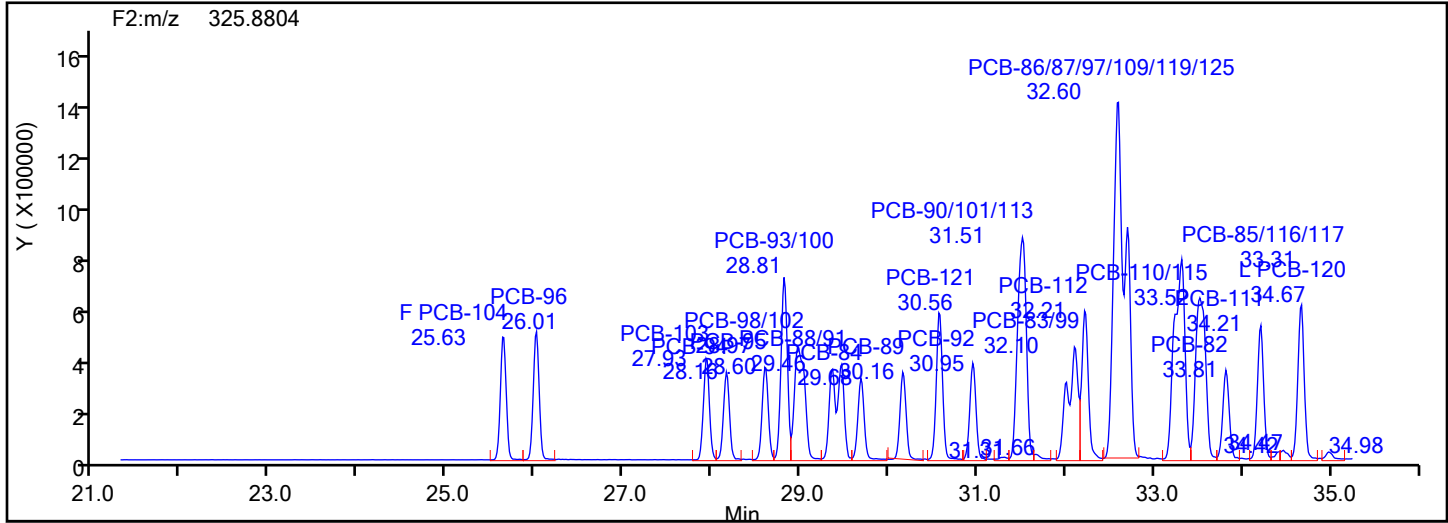
Worklist#: 87502

Sample Line#: 1

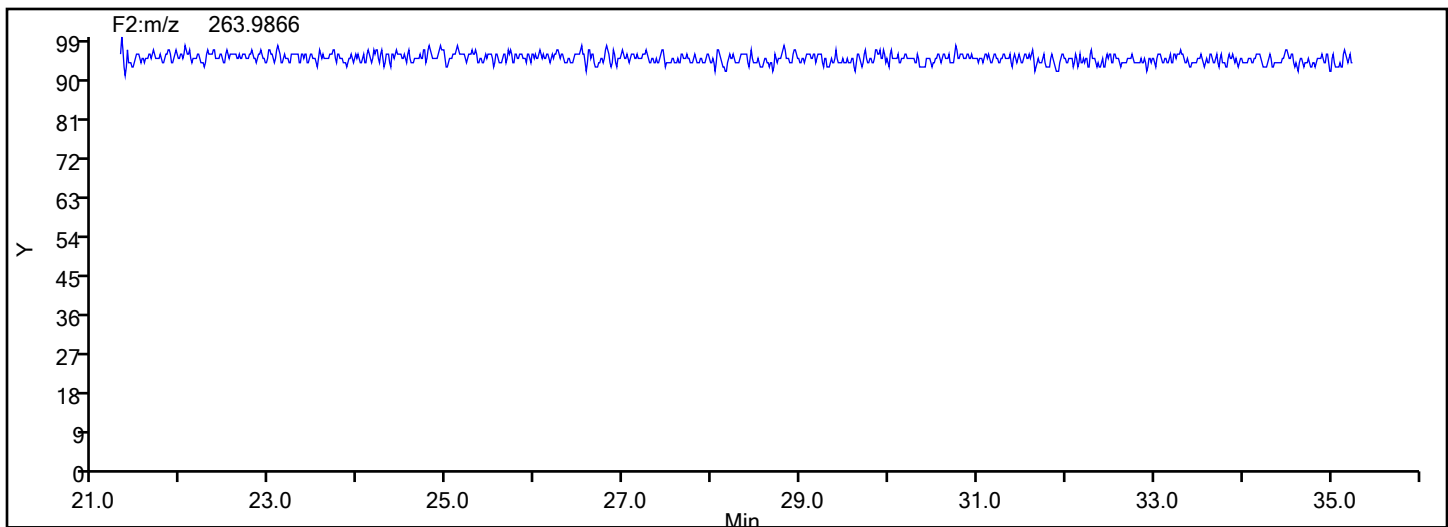
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

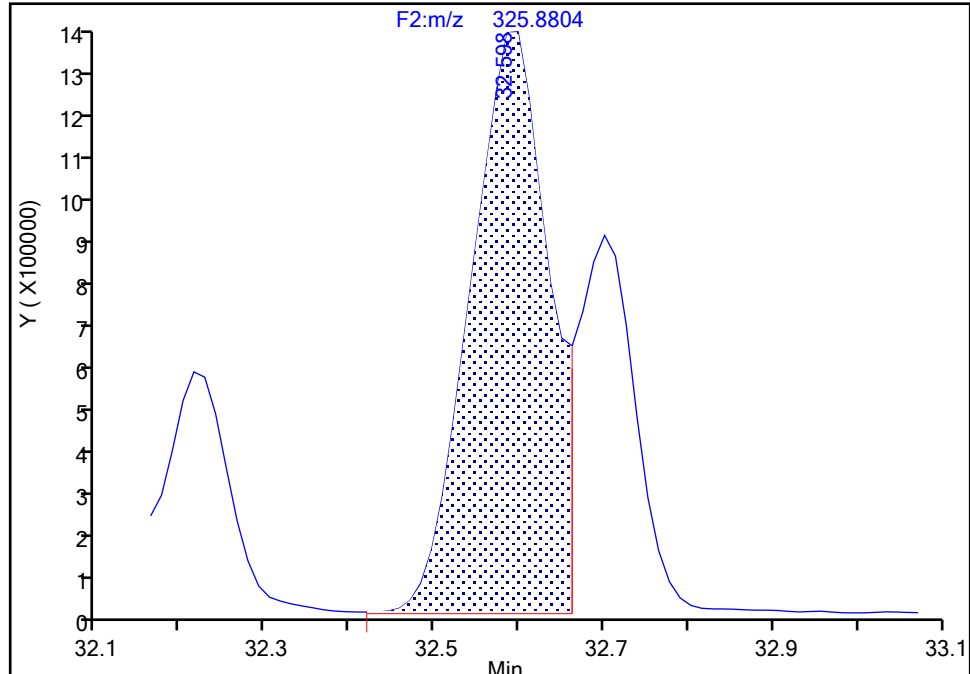
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

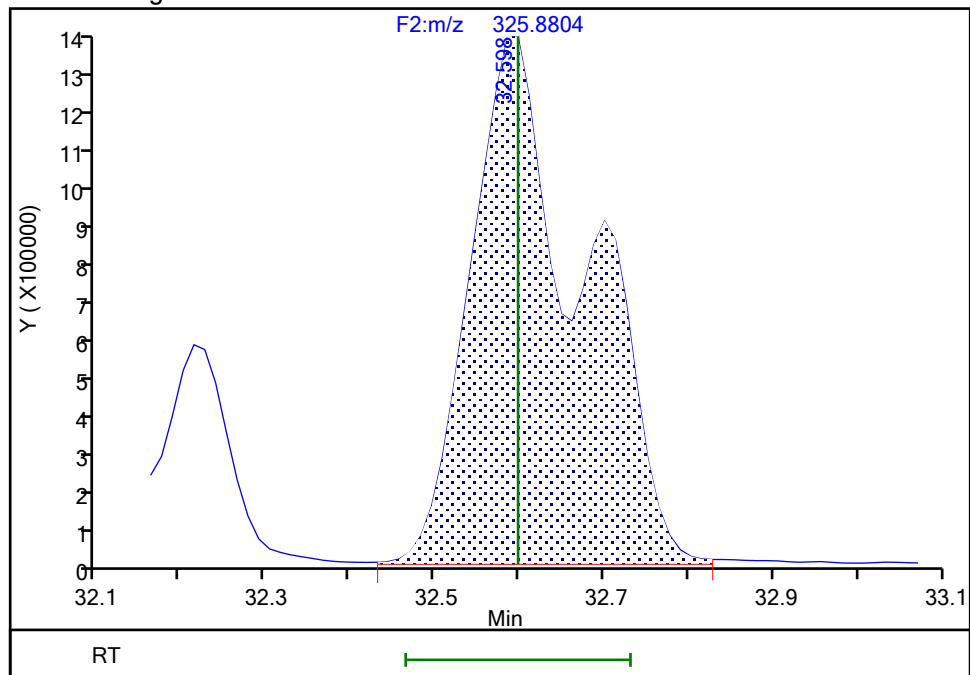
RT: 32.60
Area: 8794574
Amount: 197.8847
Amount Units: pg/ul

Processing Integration Results



RT: 32.60
Area: 12787526
Amount: 287.2903
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:43:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

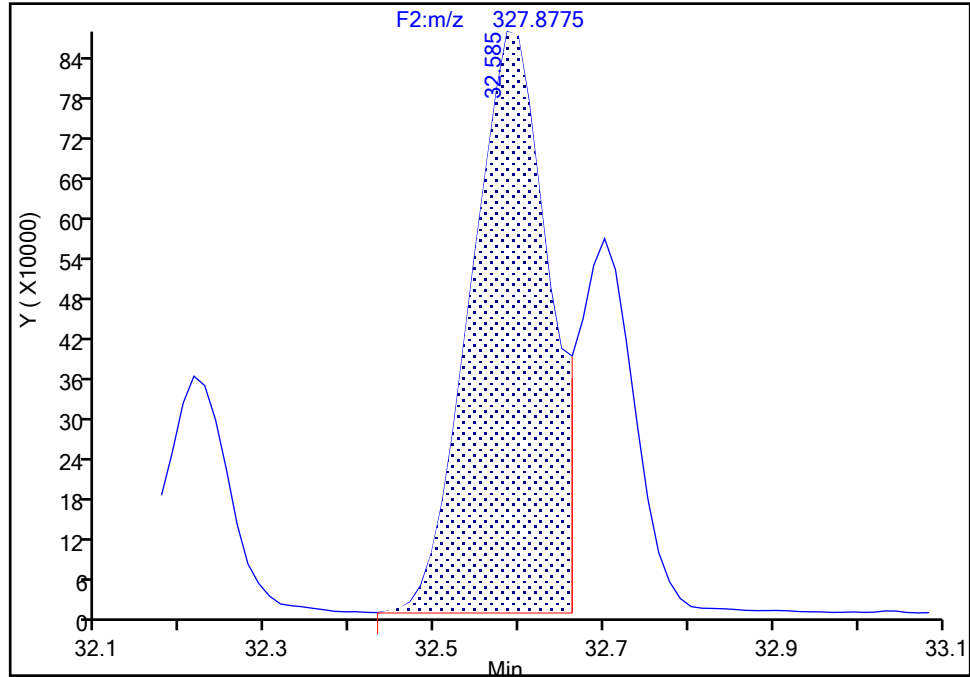
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

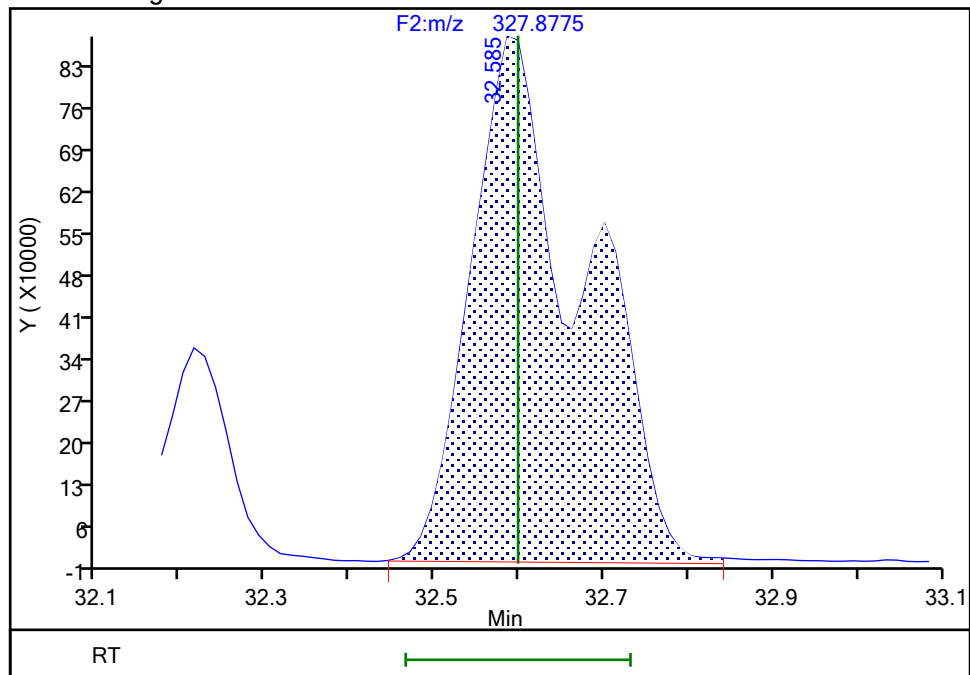
RT: 32.59
Area: 5591265
Amount: 197.8847
Amount Units: pg/ul

Processing Integration Results



RT: 32.59
Area: 8097925
Amount: 287.2903
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:44:04 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

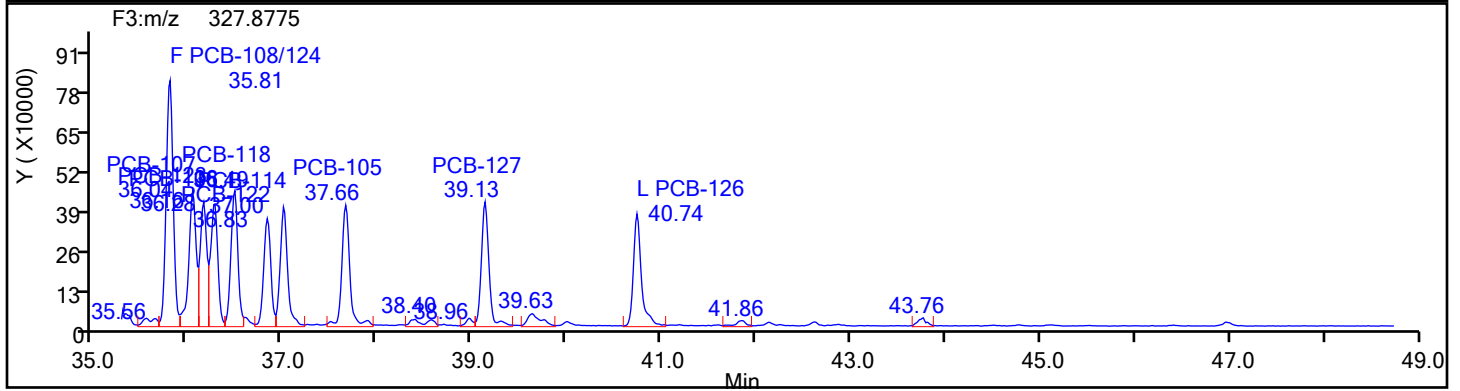
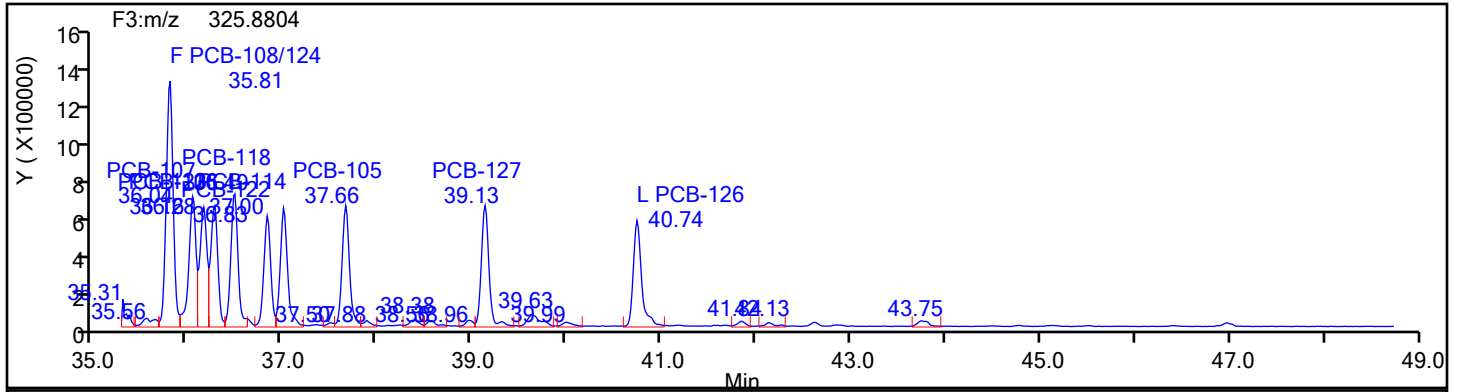
Worklist#: 87502

Sample Line#: 1

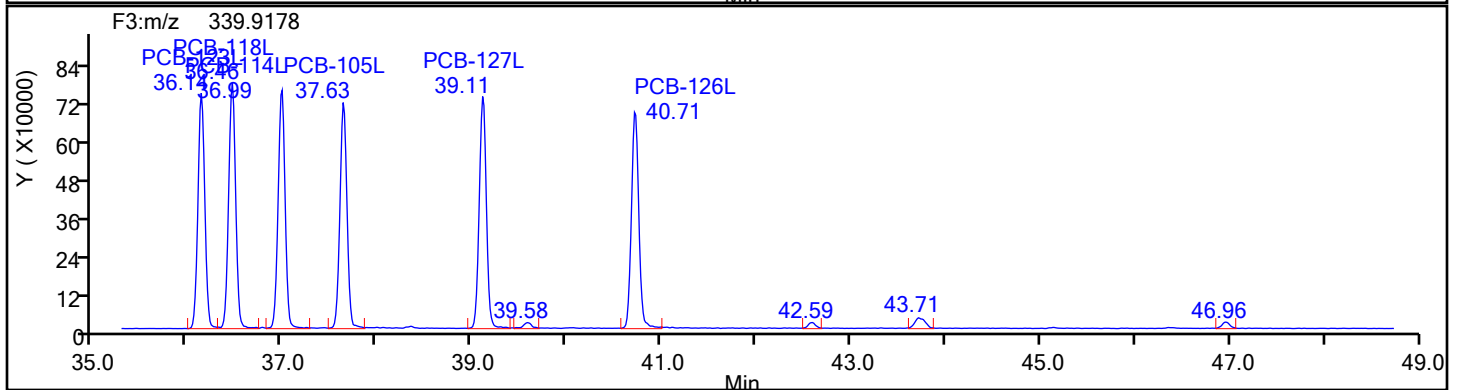
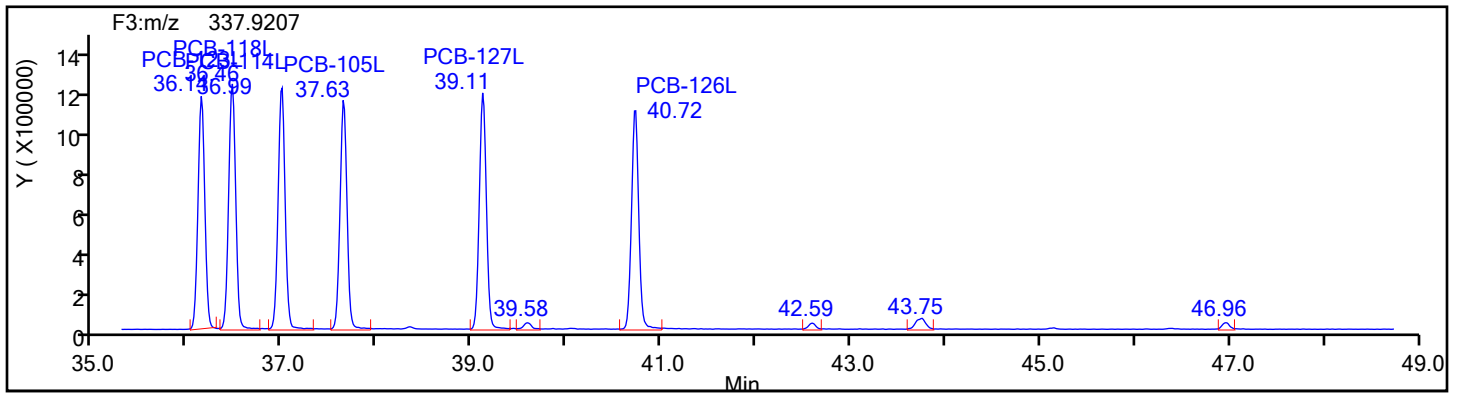
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

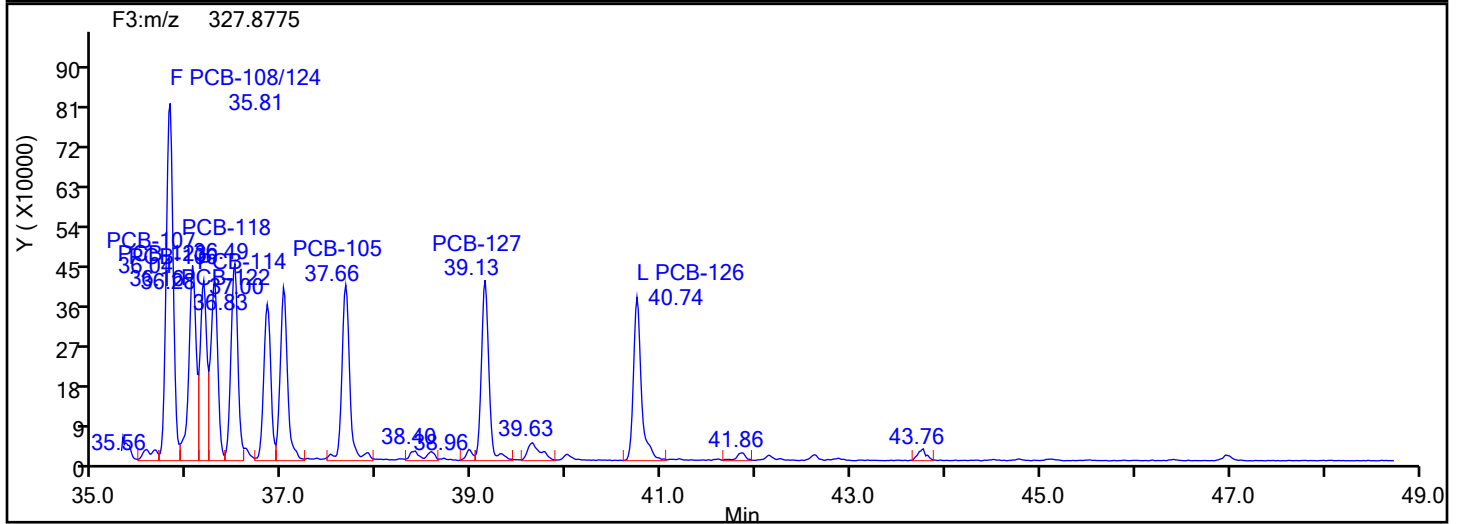
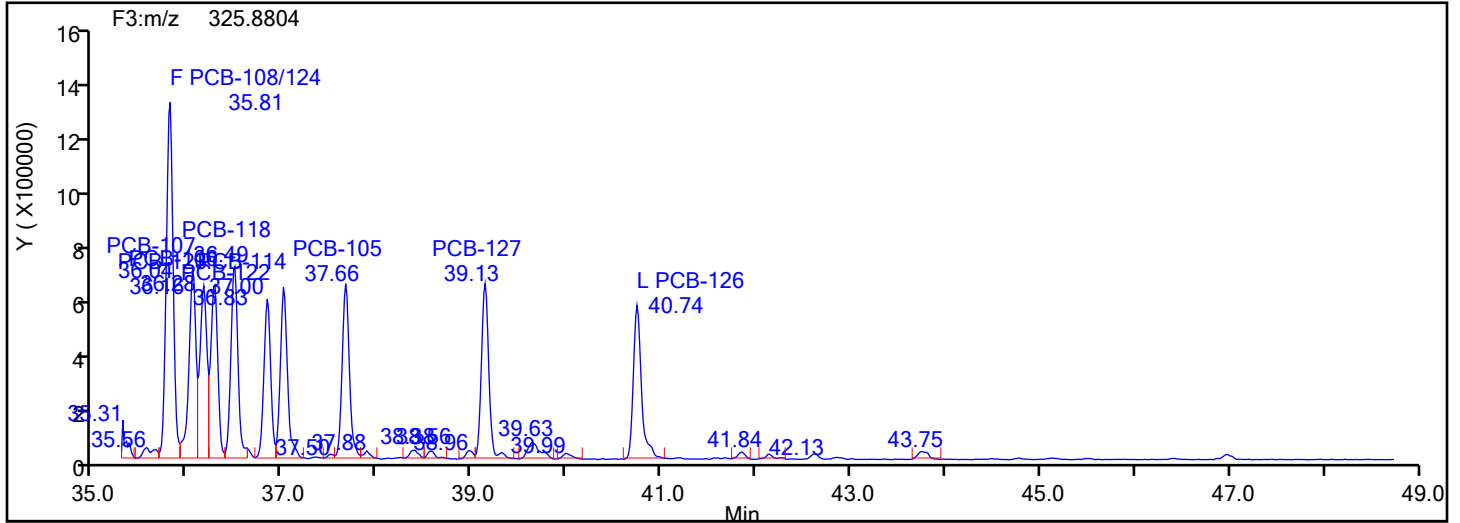
Worklist#: 87502

Sample Line#: 1

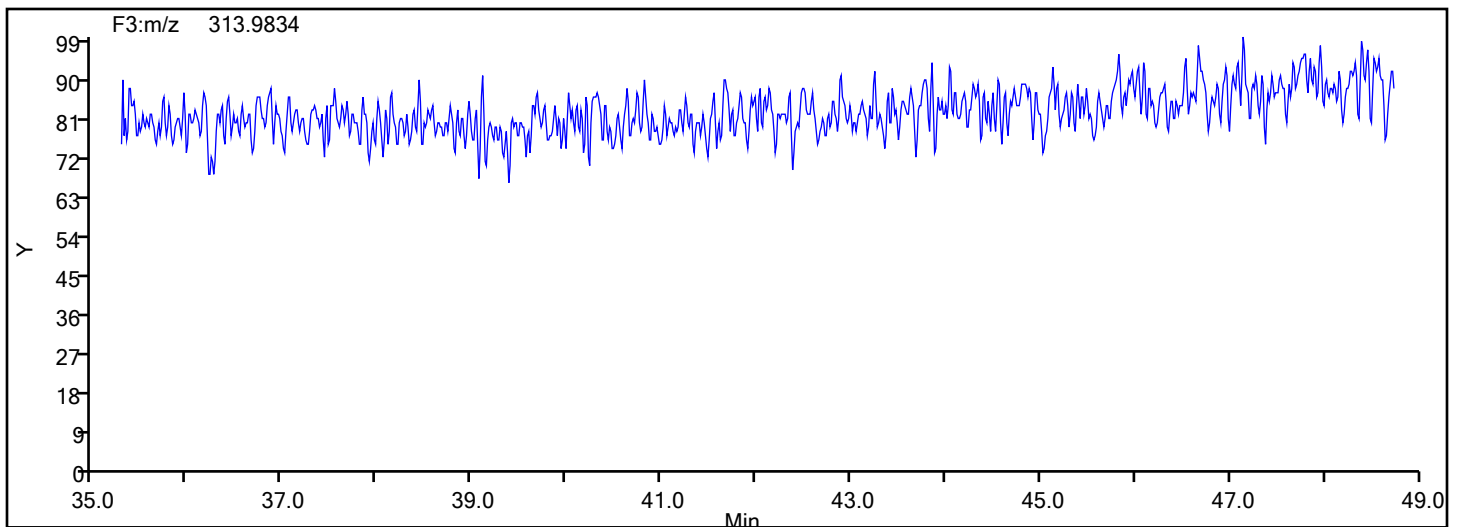
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

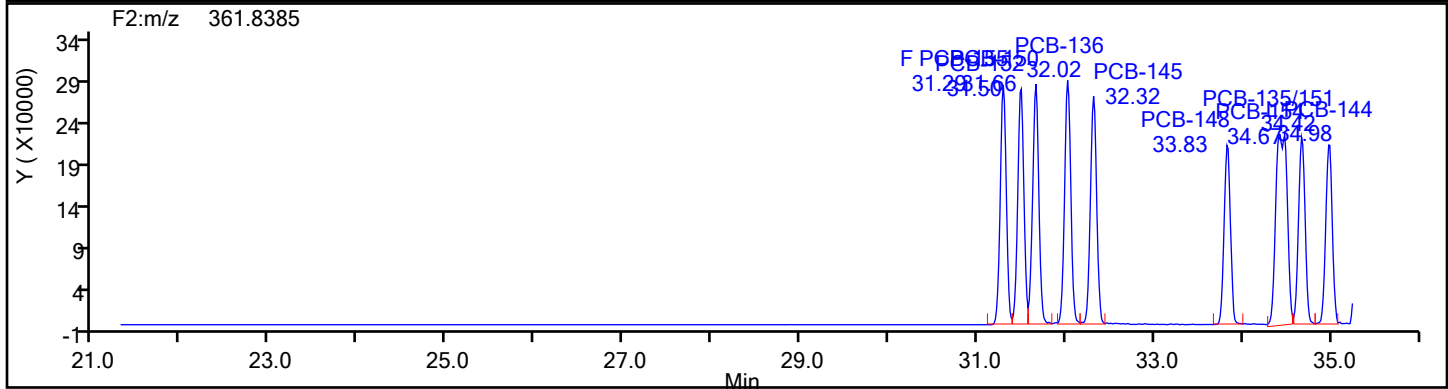
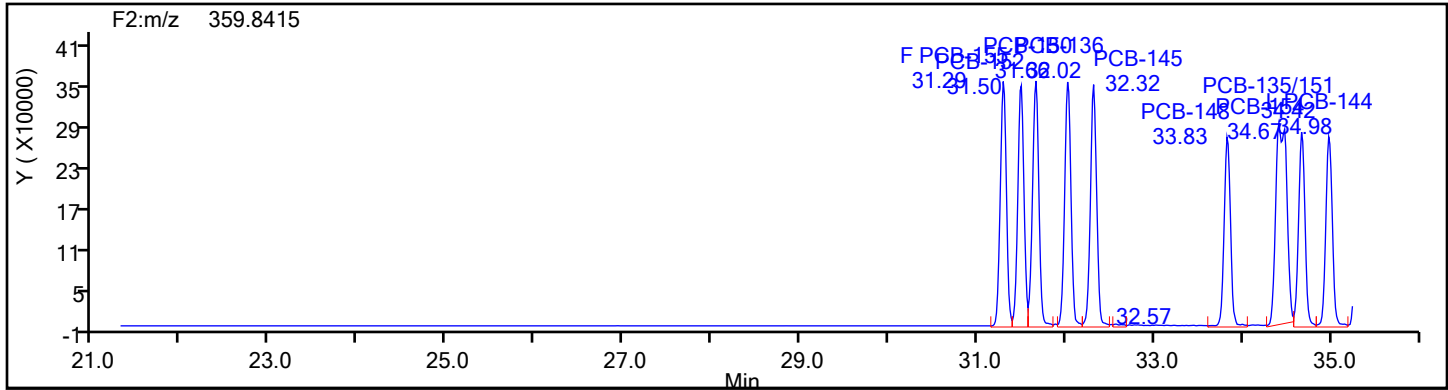
Worklist#: 87502

Sample Line#: 1

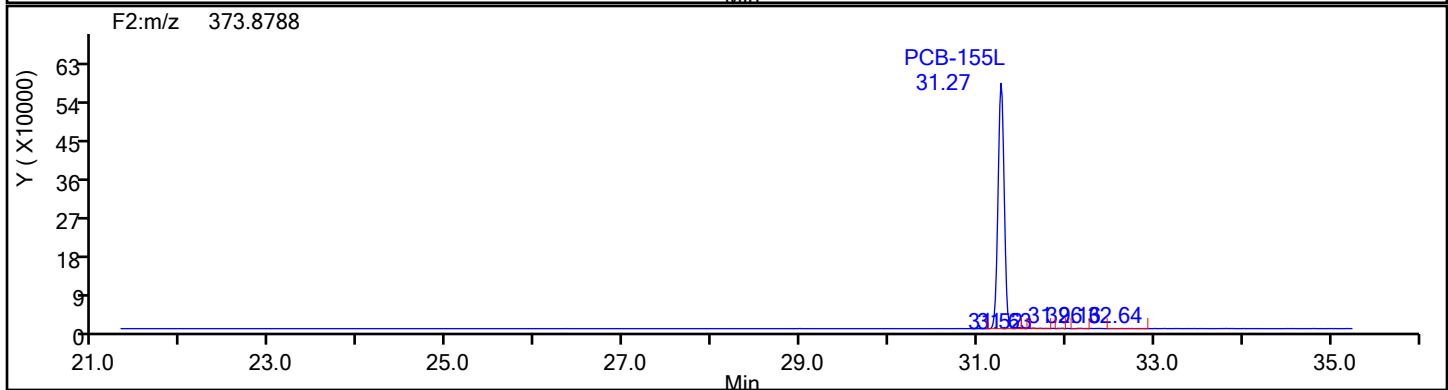
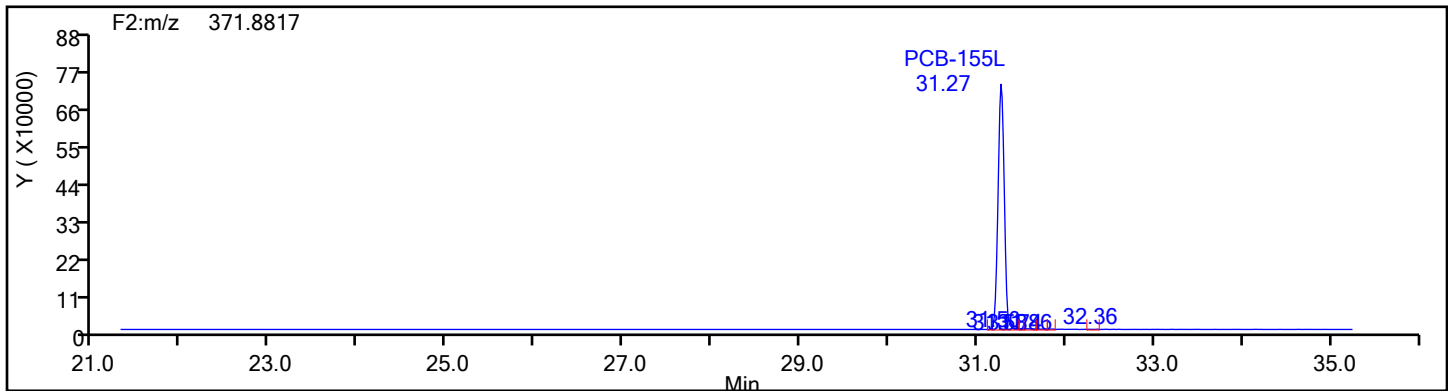
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

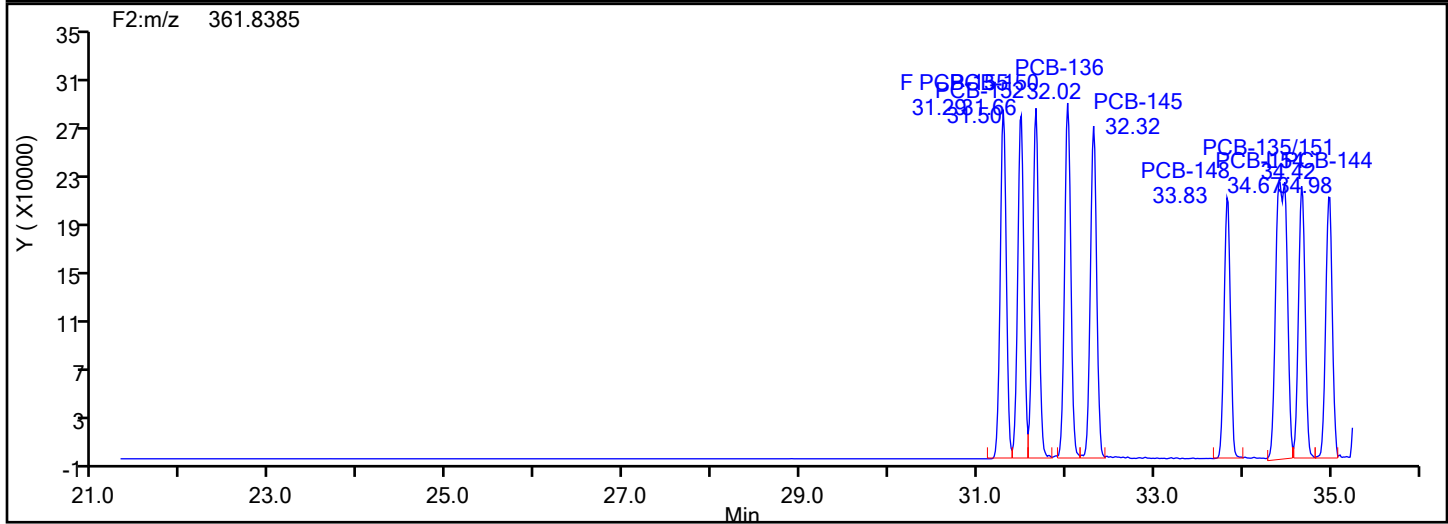
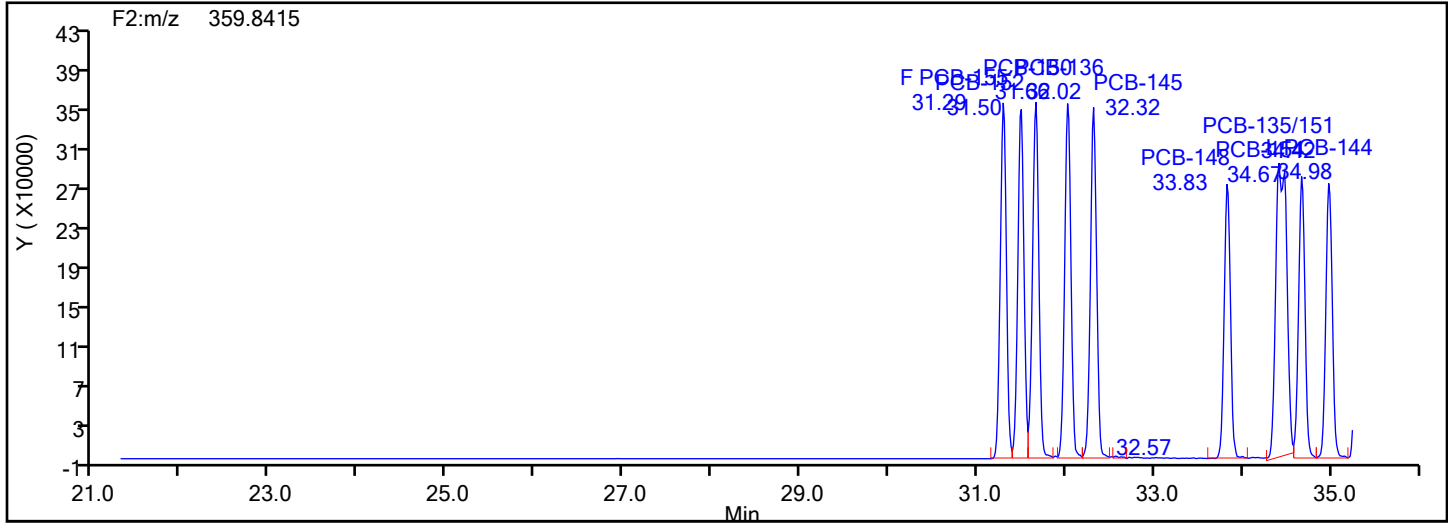
Worklist#: 87502

Sample Line#: 1

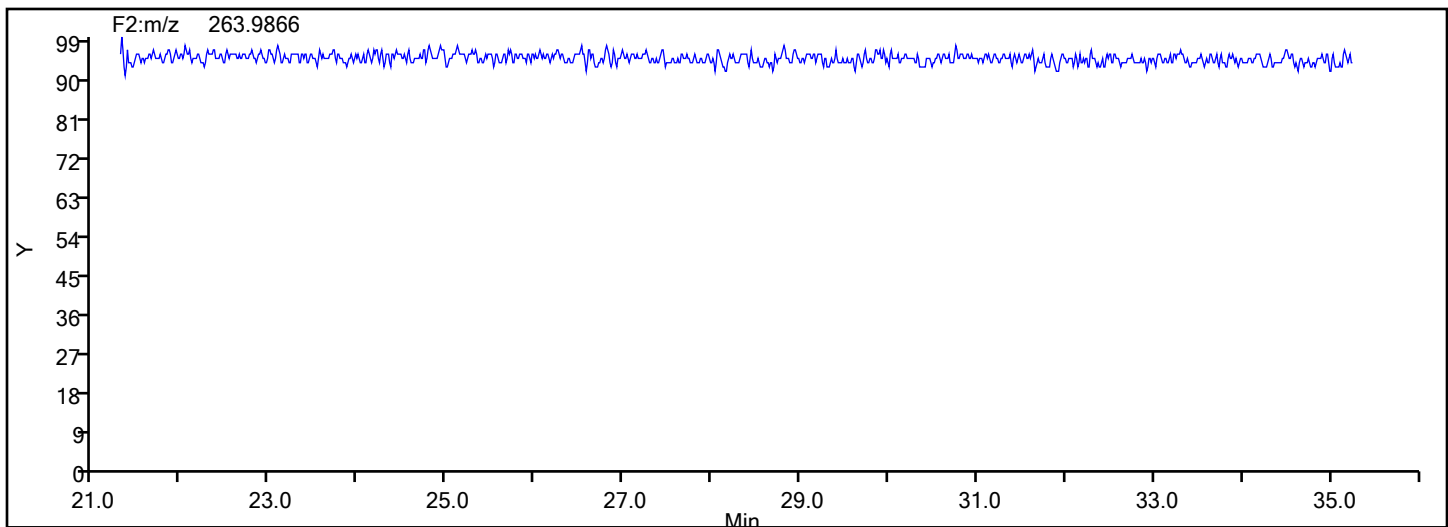
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

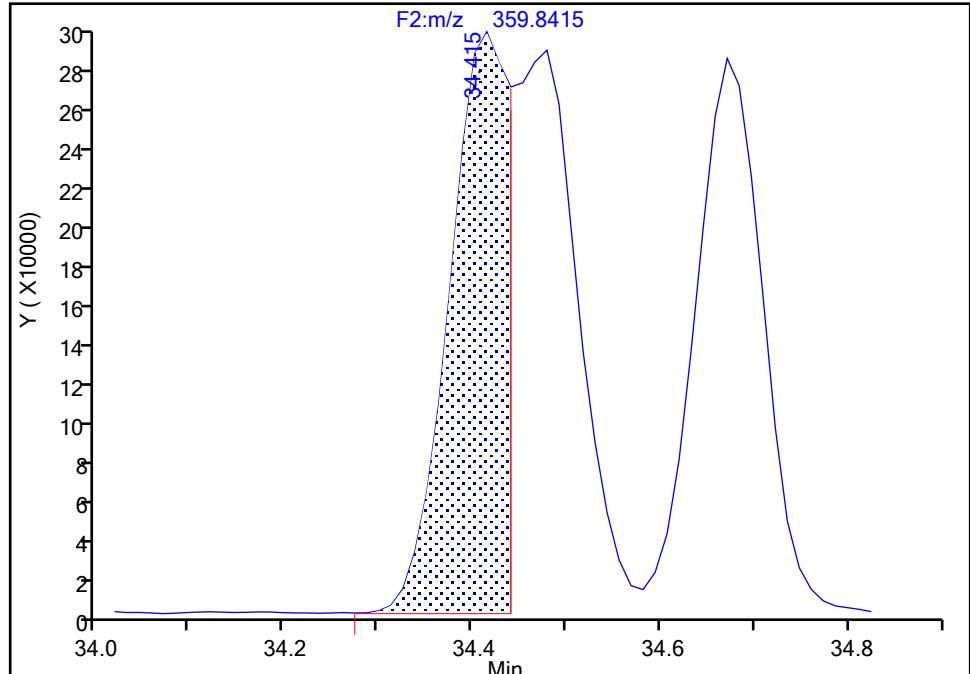
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

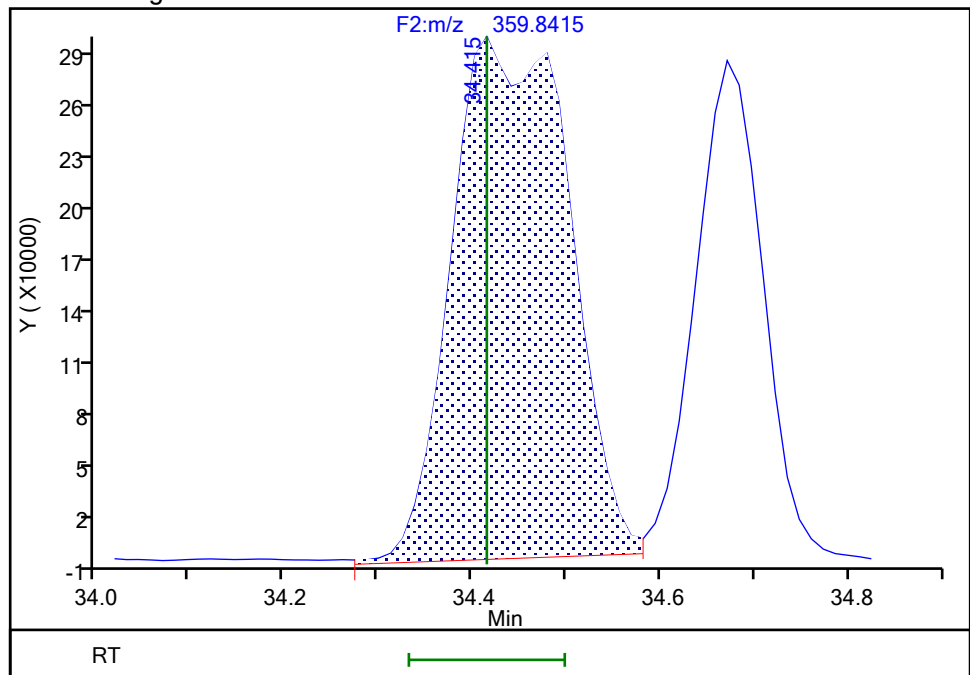
RT: 34.42
Area: 1237557
Amount: 50.782197
Amount Units: pg/ul

Processing Integration Results



RT: 34.42
Area: 2536613
Amount: 97.914364
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:44:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

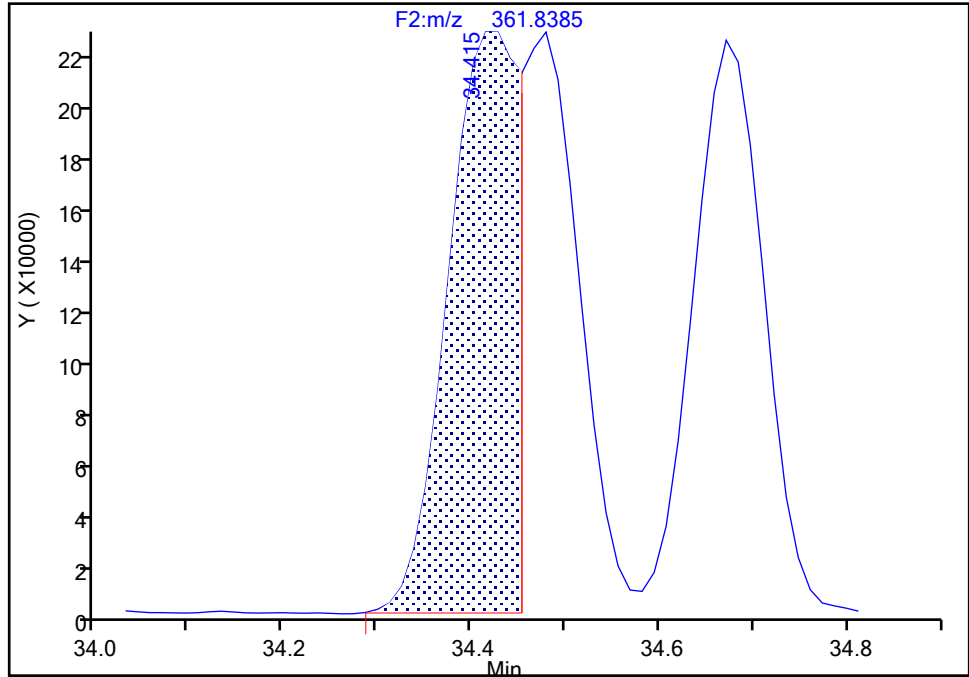
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

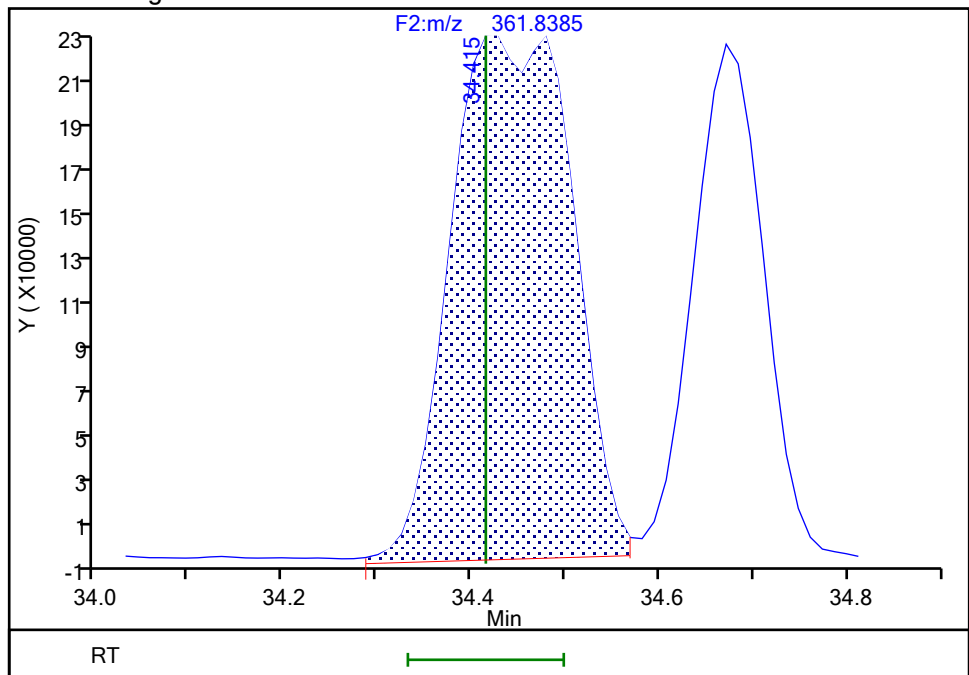
RT: 34.42
Area: 1128178
Amount: 50.782197
Amount Units: pg/ul

Processing Integration Results



RT: 34.42
Area: 2024817
Amount: 97.914364
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:44:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

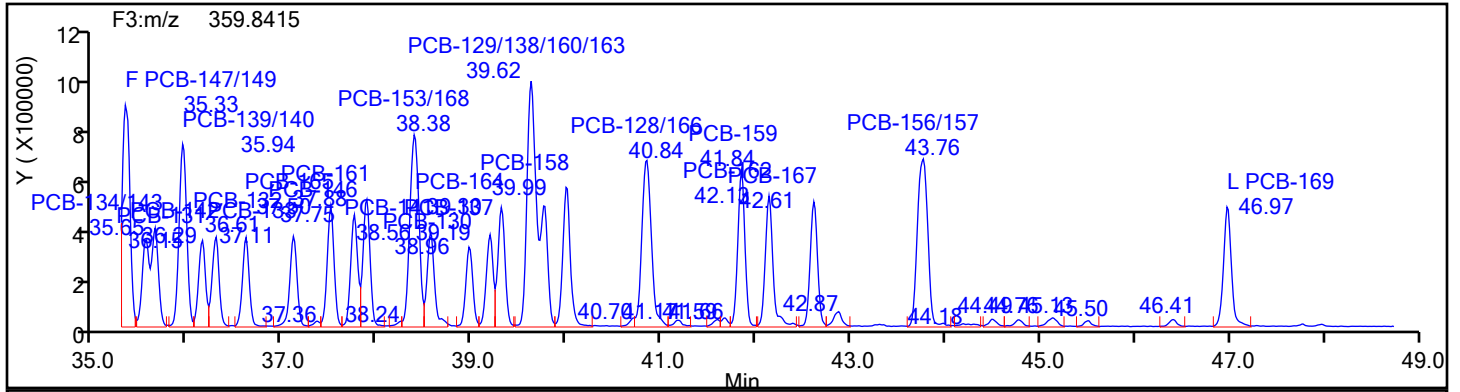
Worklist#: 87502

Sample Line#: 1

Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

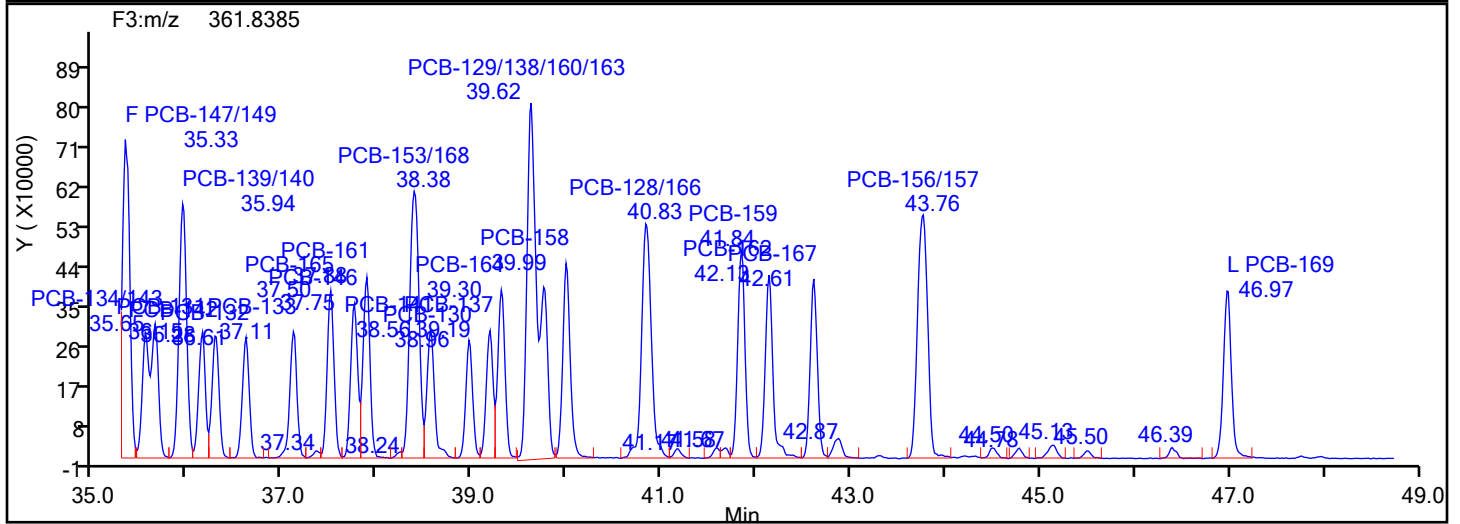
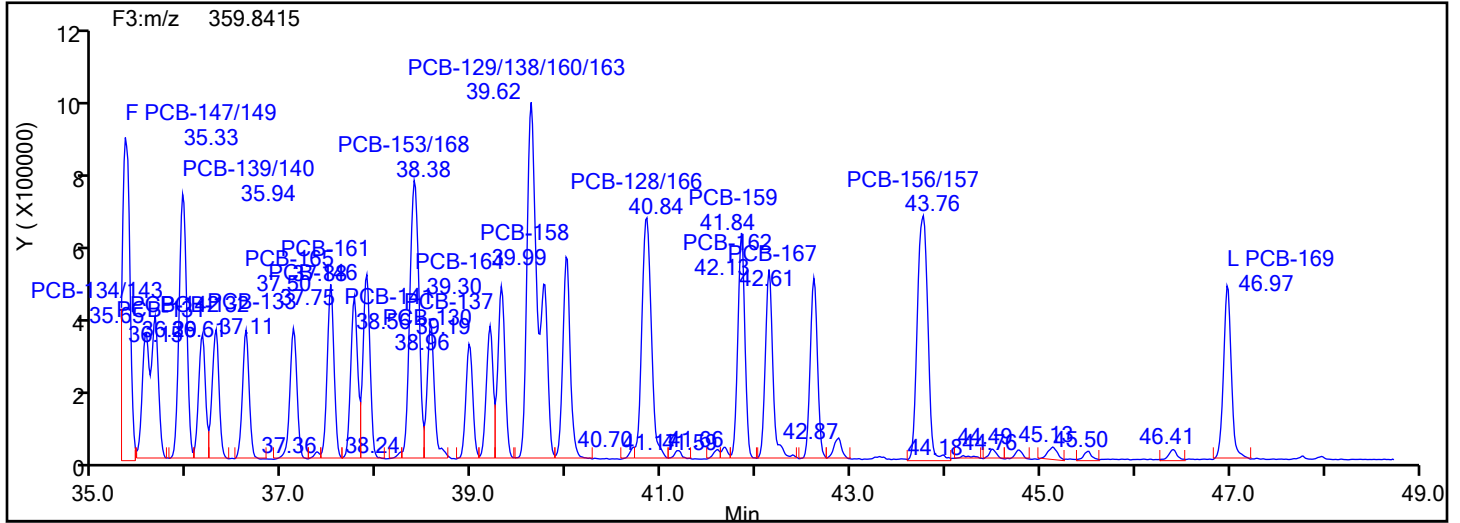
Worklist#: 87502

Sample Line#: 1

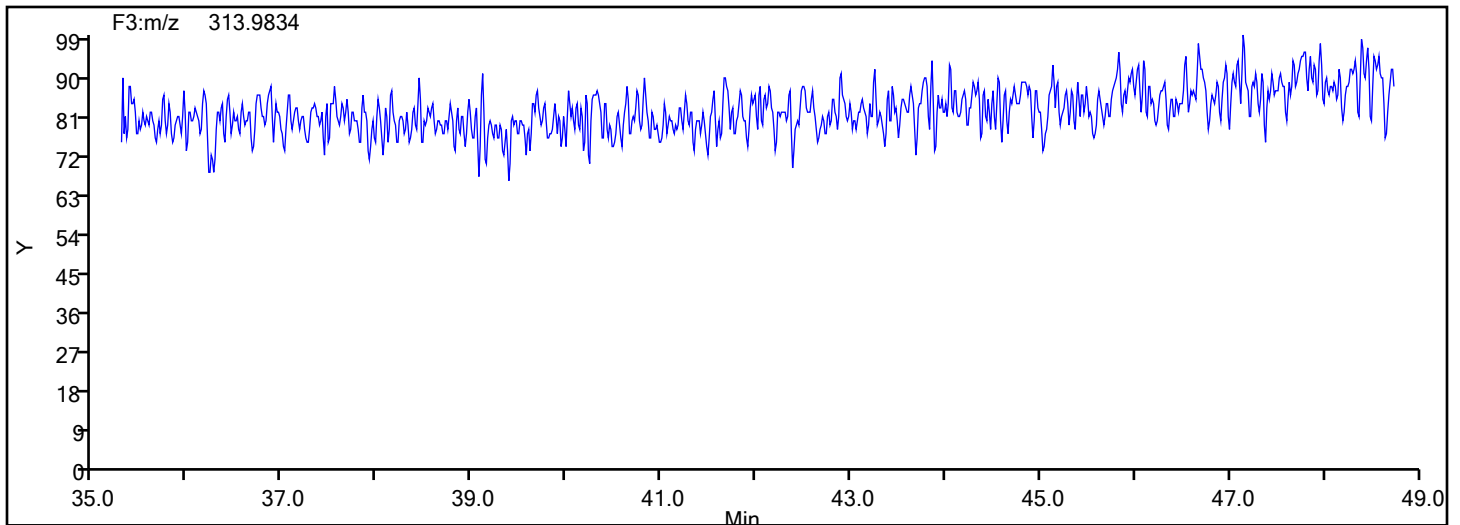
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

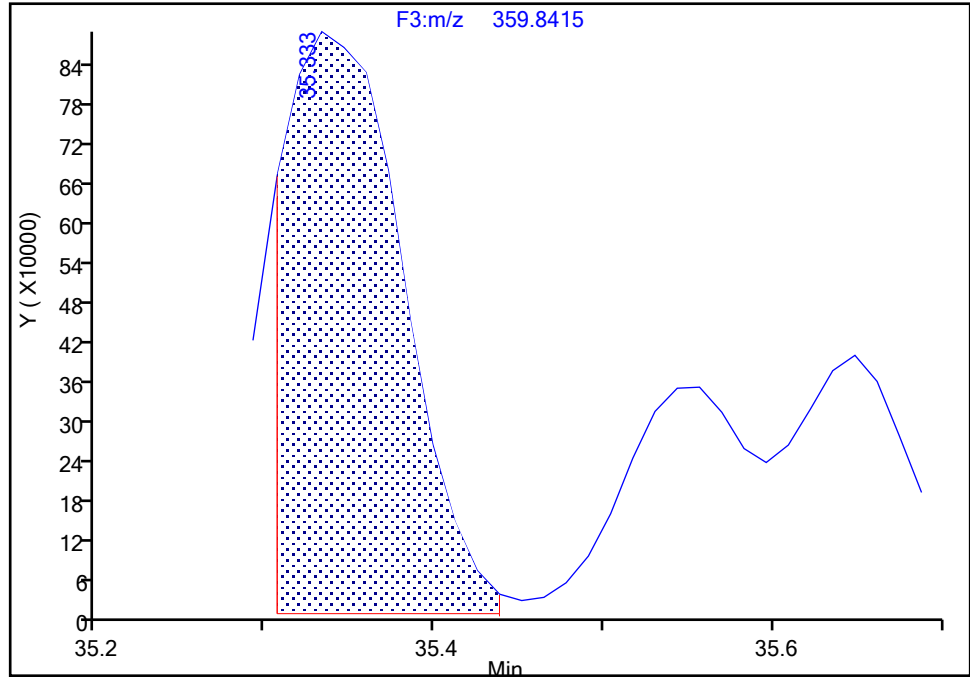
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-147/149, CAS: STL01821

Signal: 1

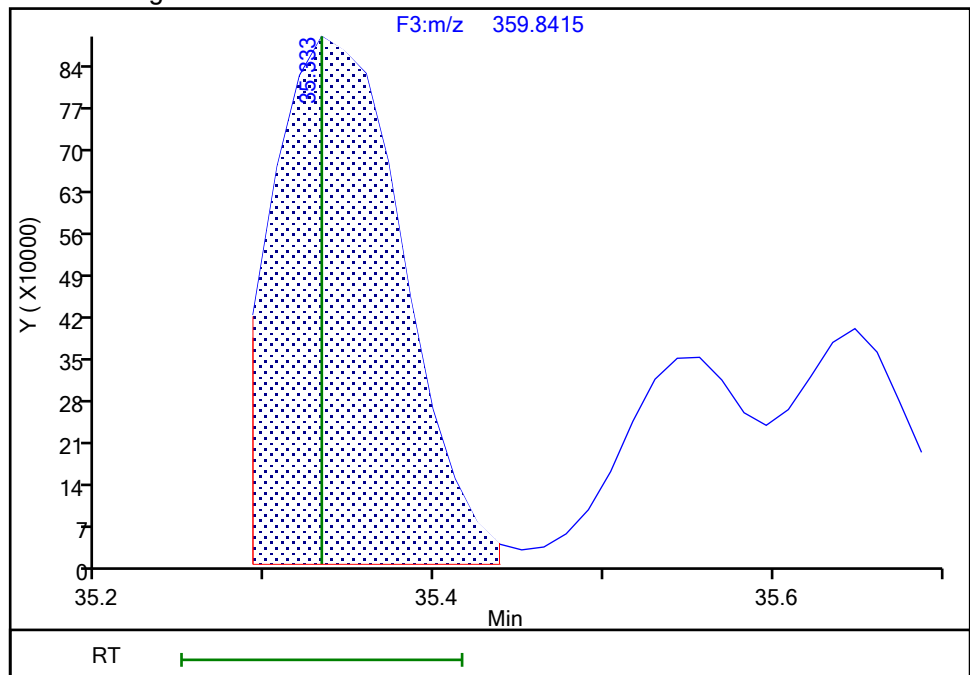
RT: 35.33
Area: 4206818
Amount: 97.857213
Amount Units: pg/ul

Processing Integration Results



RT: 35.33
Area: 4661143
Amount: 108.2281
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 16:30:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

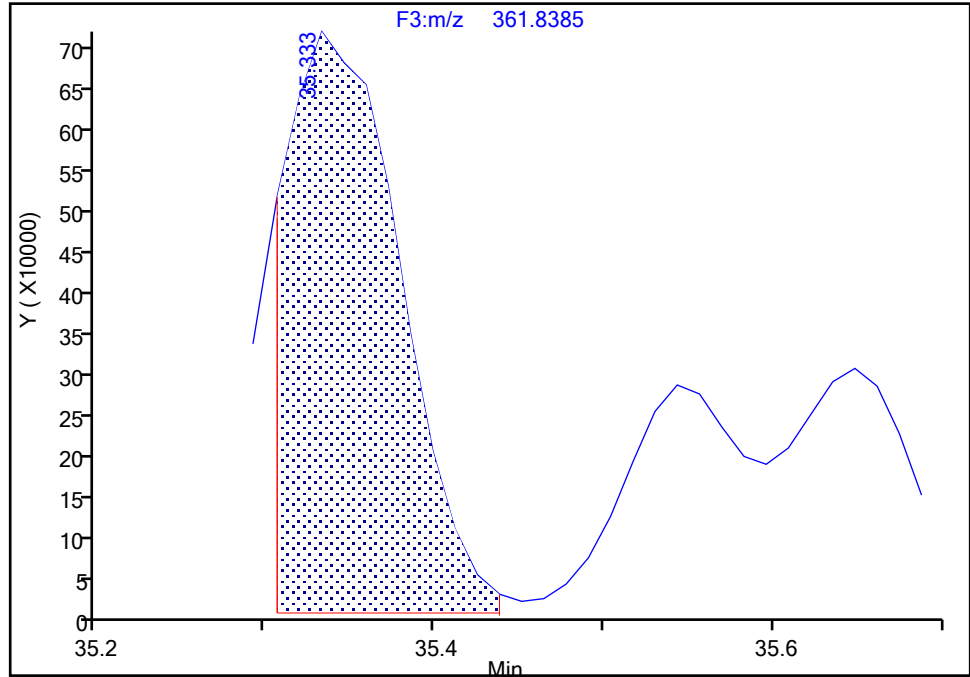
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-147/149, CAS: STL01821

Signal: 2

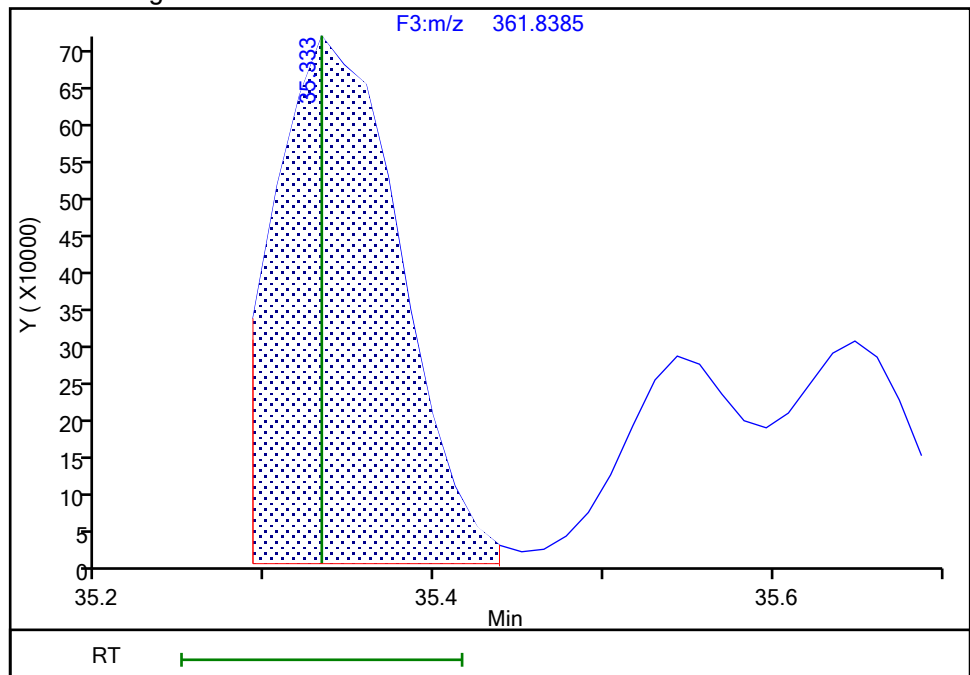
RT: 35.33
Area: 3310546
Amount: 97.857213
Amount Units: pg/ul

Processing Integration Results



RT: 35.33
Area: 3652910
Amount: 108.2281
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 16:30:39 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

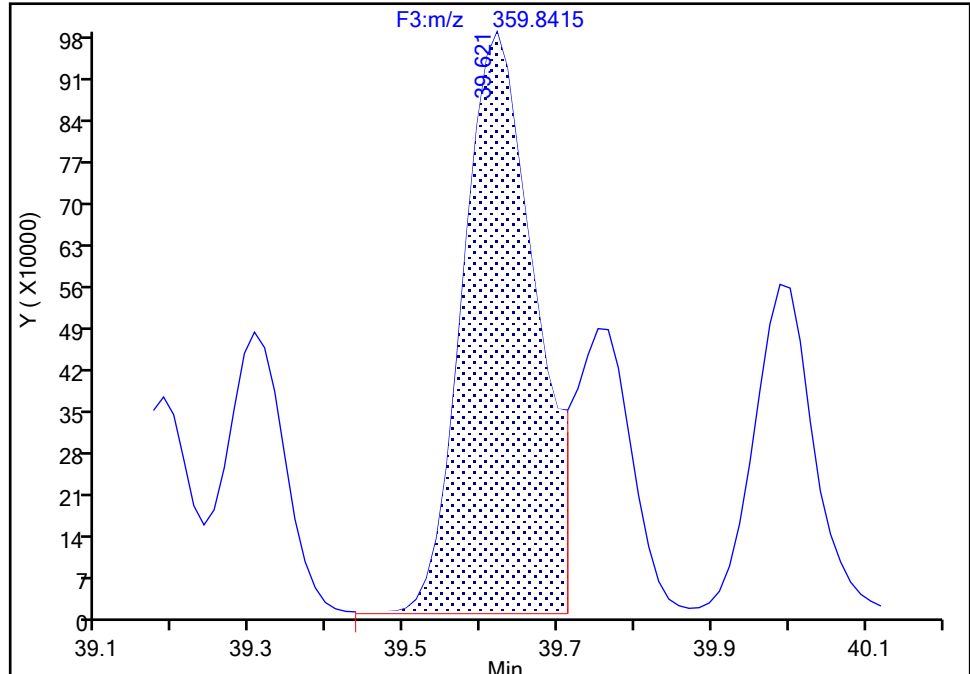
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

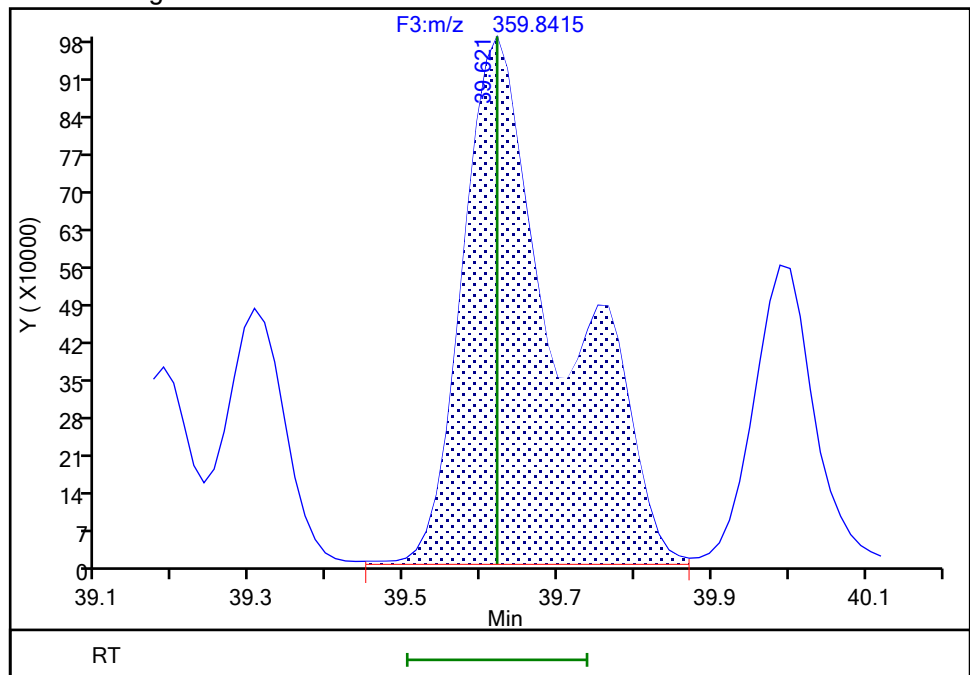
RT: 39.62
Area: 6410092
Amount: 139.1113
Amount Units: pg/ul

Processing Integration Results



RT: 39.62
Area: 8826687
Amount: 196.7706
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:44:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

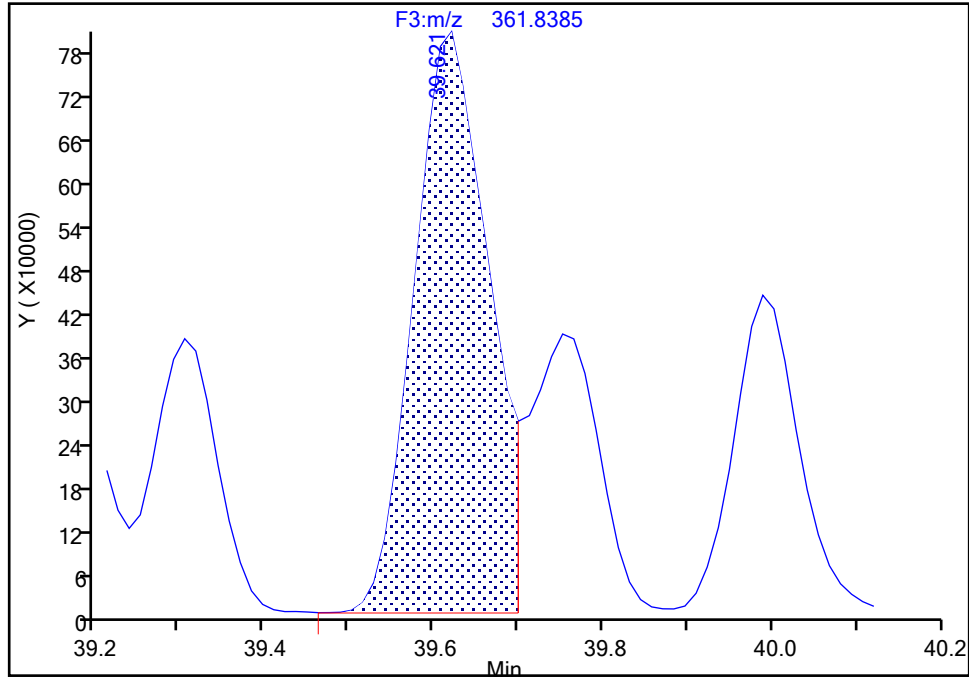
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

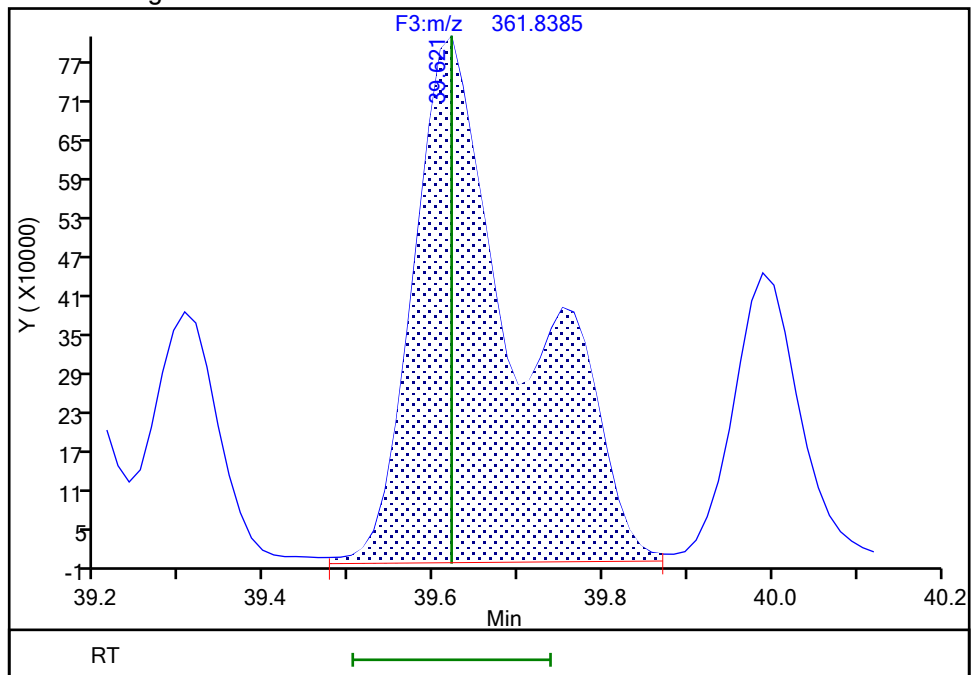
RT: 39.62
Area: 4890519
Amount: 139.1113
Amount Units: pg/ul

Processing Integration Results



RT: 39.62
Area: 7157836
Amount: 196.7706
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:44:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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9/6/2024 2:43:26 PM
BASFHWC-GS-2024081

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

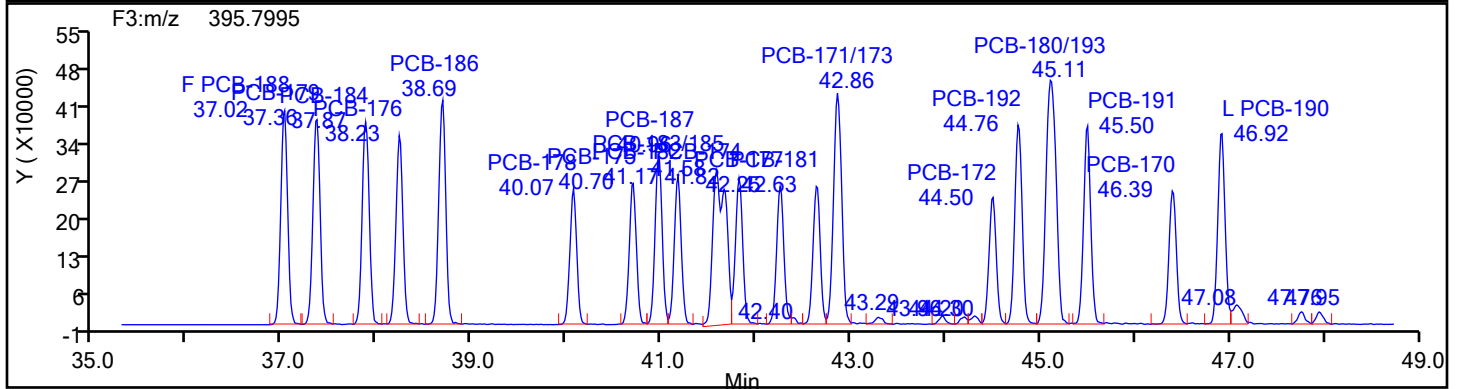
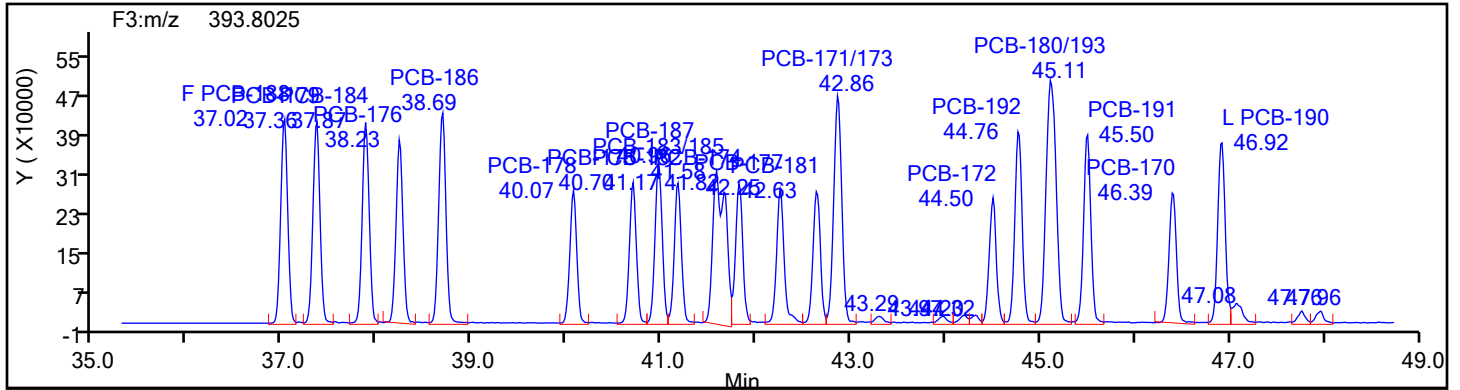
Worklist#: 87502

Sample Line#: 1

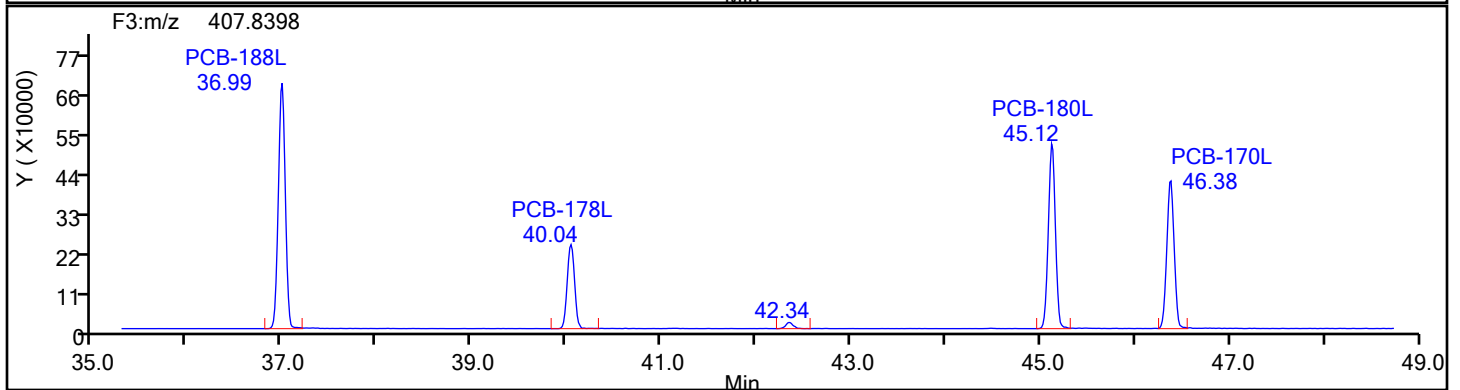
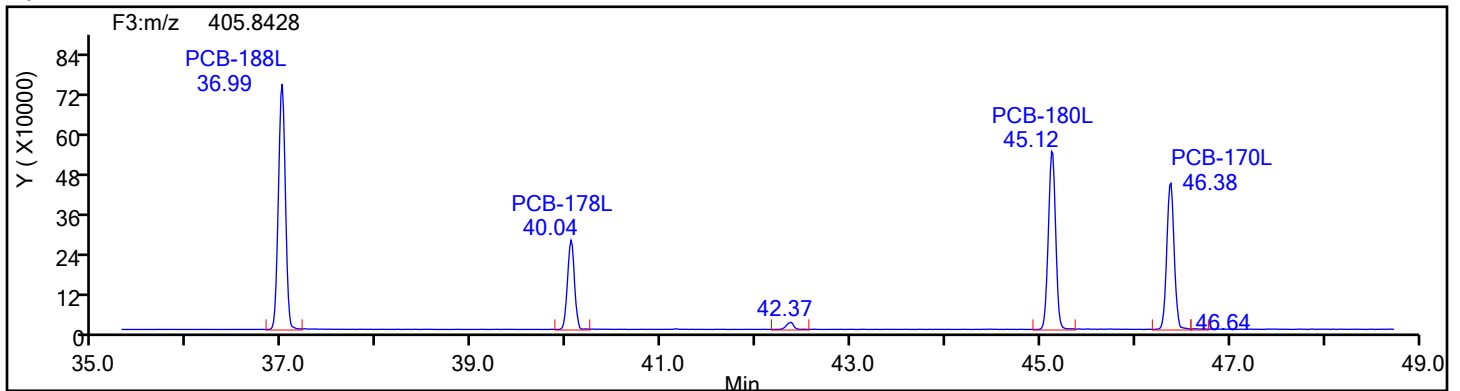
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

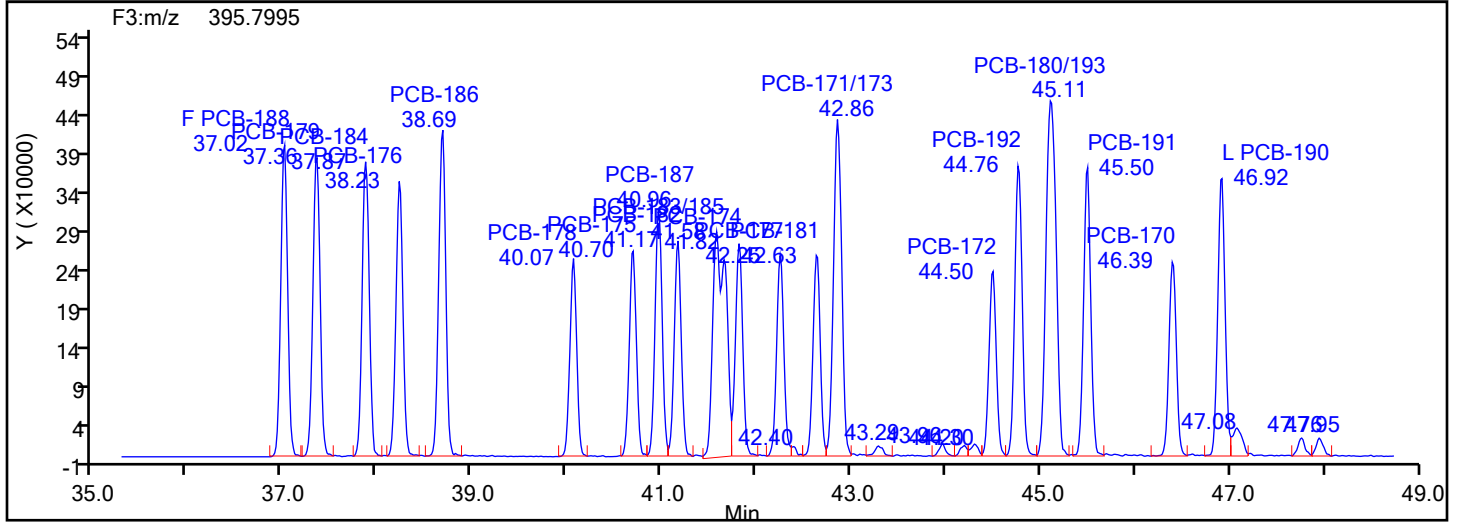
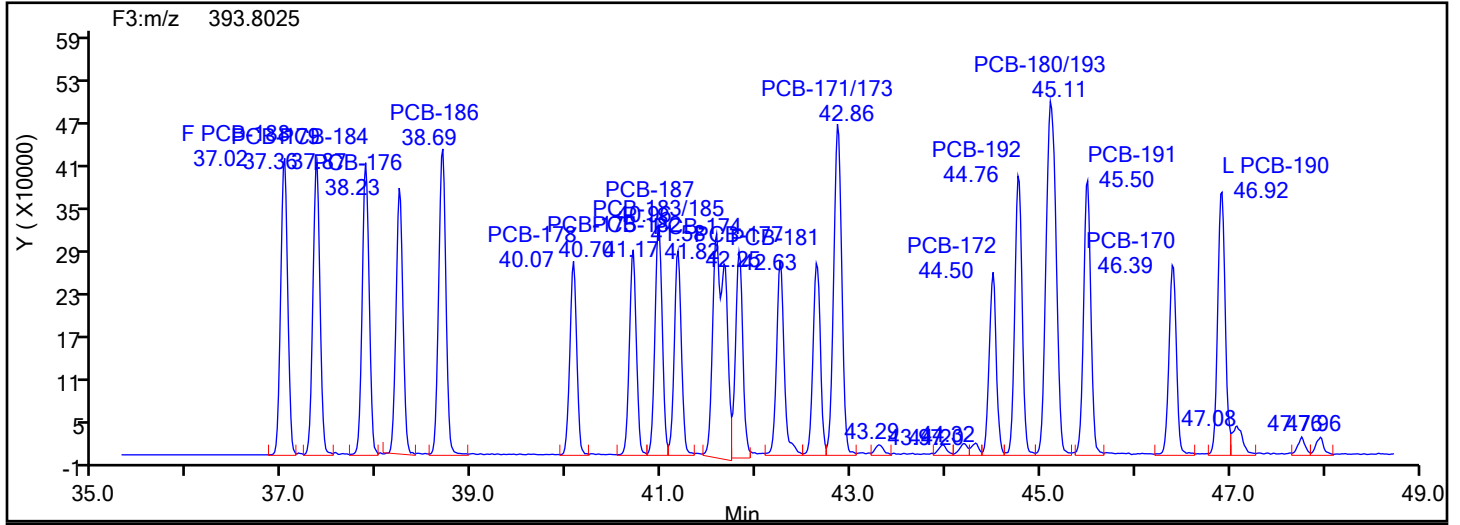
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Sample Line#: 1

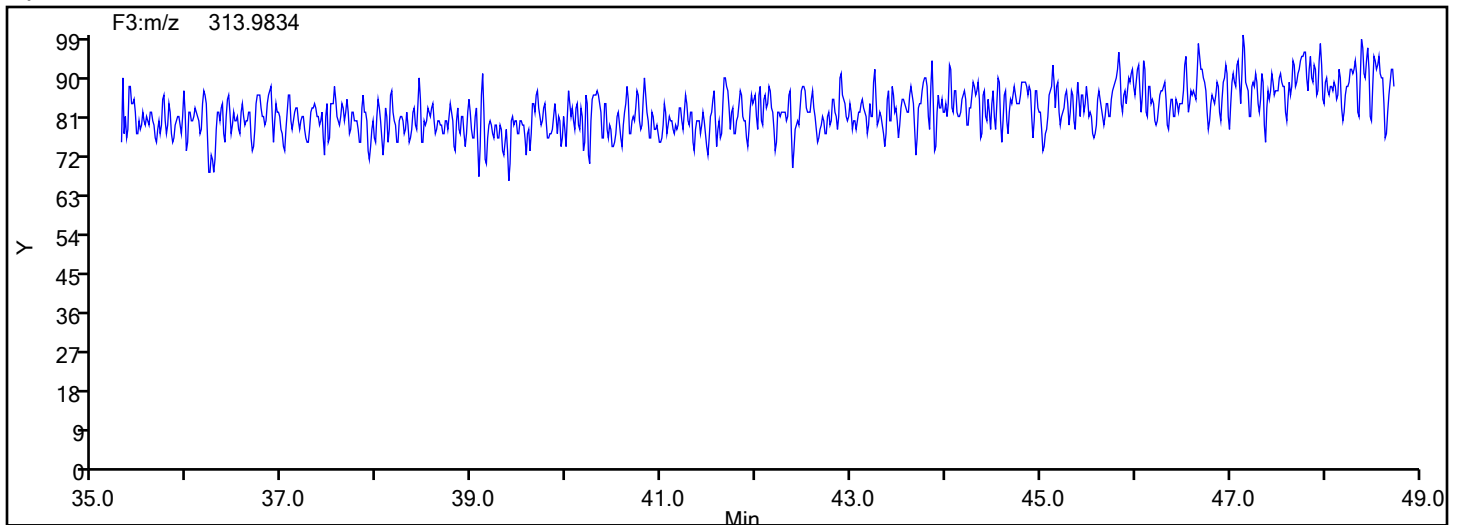
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

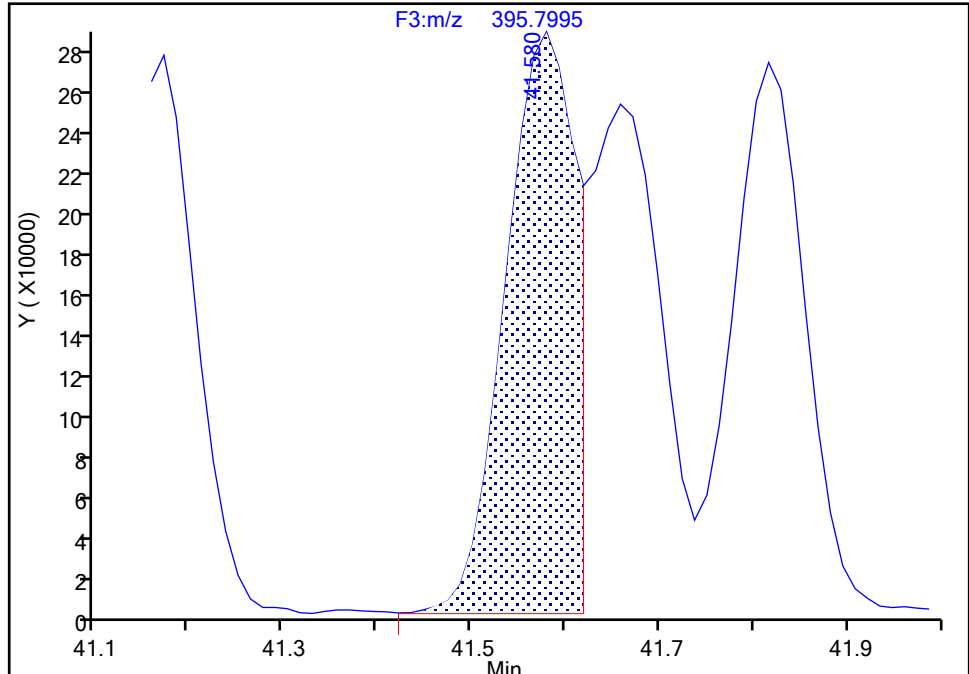
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Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

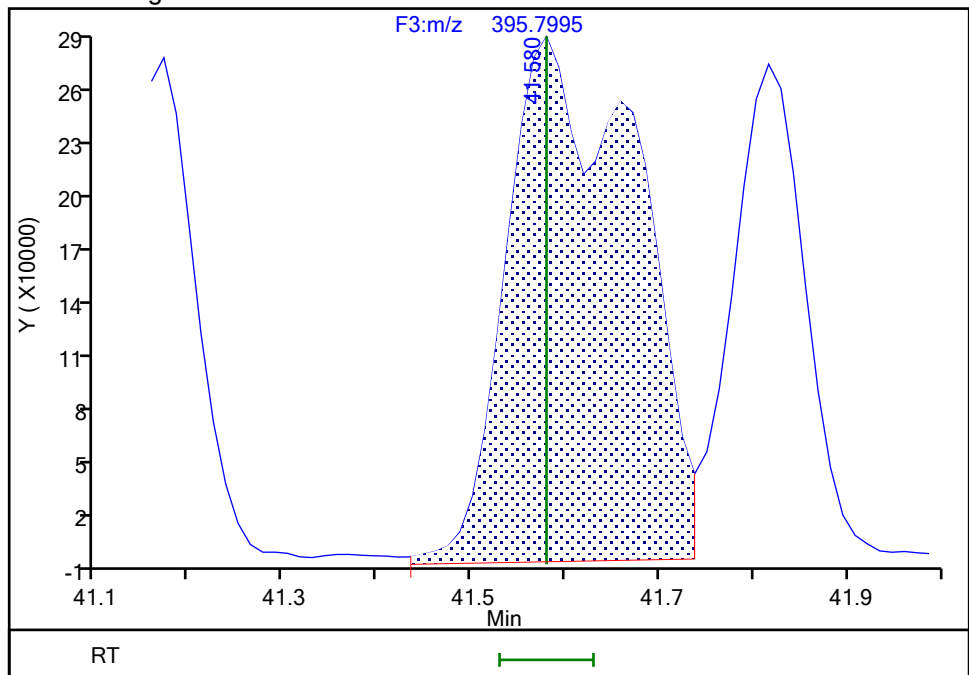
RT: 41.58
Area: 1450299
Amount: 50.386759
Amount Units: pg/ul

Processing Integration Results



RT: 41.58
Area: 2768313
Amount: 96.130280
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:45:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

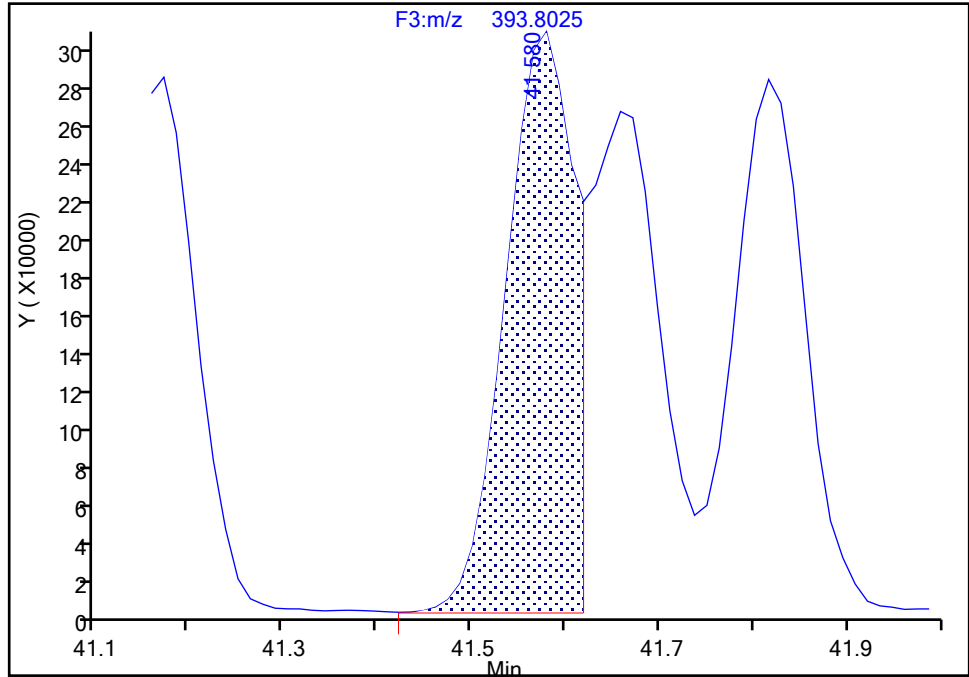
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Injection Date: 11-Jun-2024 09:41:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

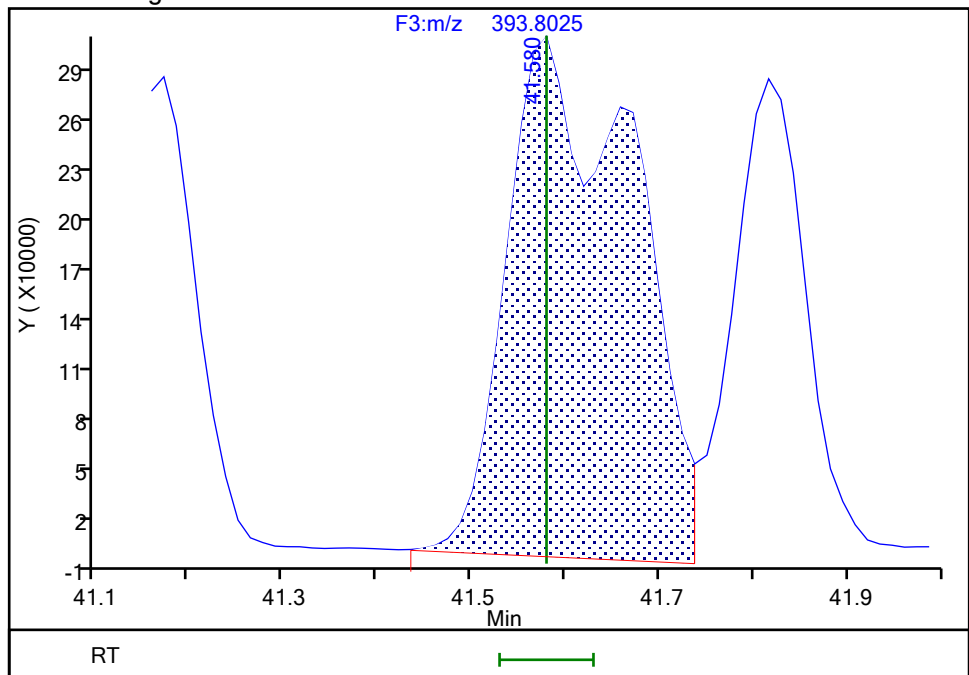
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Amount Units: pg/ul

Processing Integration Results



RT: 41.58
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Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:45:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2633 of 3076

BASFHWC-G-0122-04085
9/6/2024
2:43:26 PM

Eurofins Knoxville

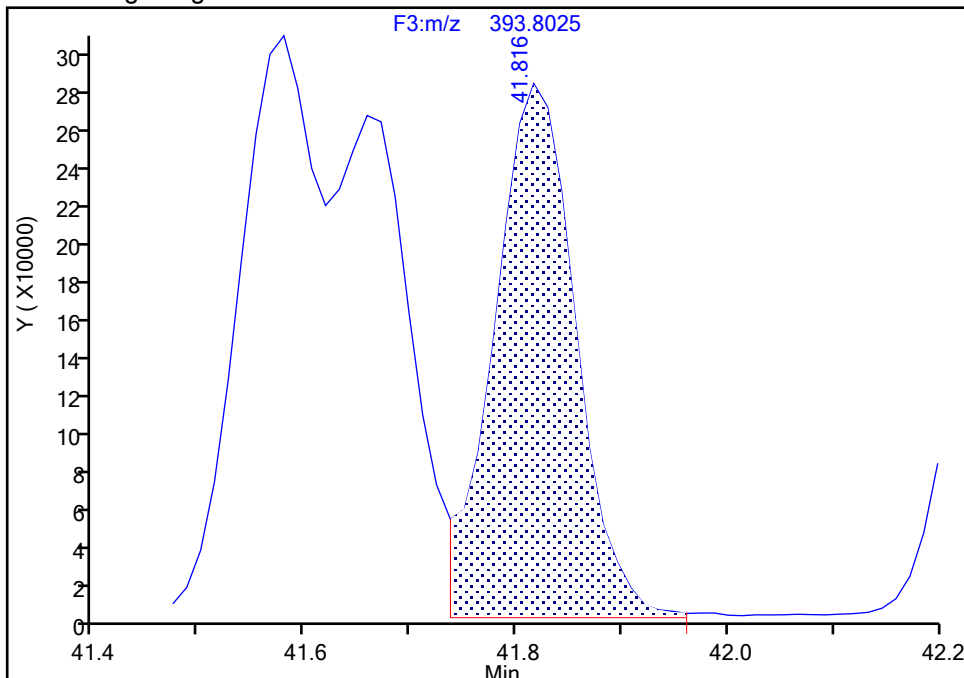
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Injection Date:	11-Jun-2024 09:41:00	Instrument ID:	D2D
Lims ID:	WDMCCV		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23
Column:	SPB-Octyl (0.25 mm)	Detector	F3(35.64 :49.1

PCB-174, CAS: 38411-25-5

Signal: 1

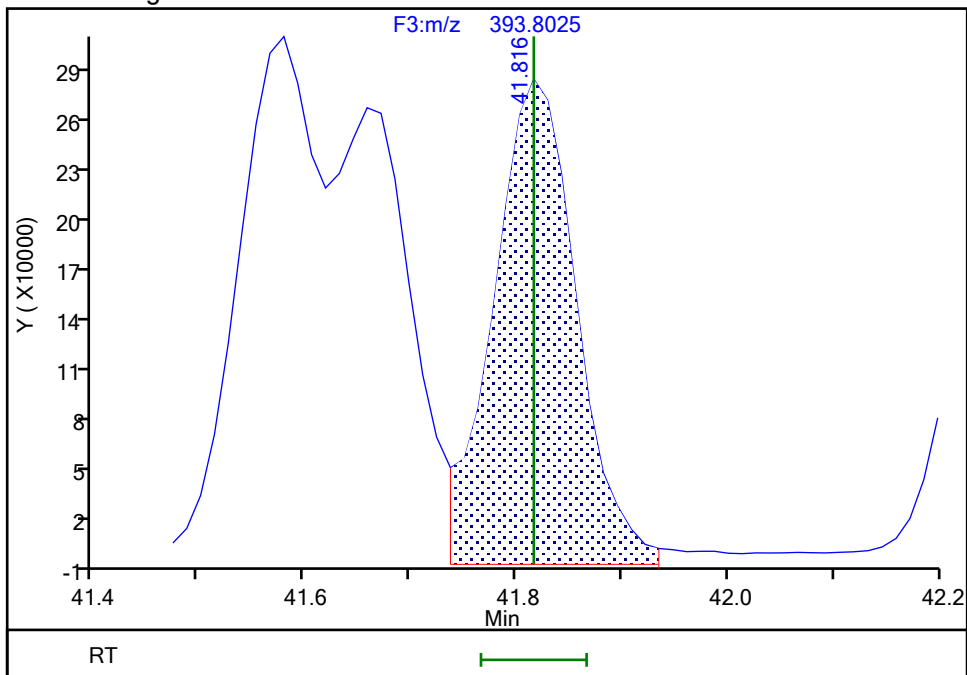
RT: 41.82
Area: 1518229
Amount: 51.372405
Amount Units: pg/ul

Processing Integration Results



RT: 41.82
Area: 1562991
Amount: 52.141519
Amount Units: pg/ul

Manual Integration Results



Reviewer: OWJ7, 11-Jun-2024 10:45:39 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

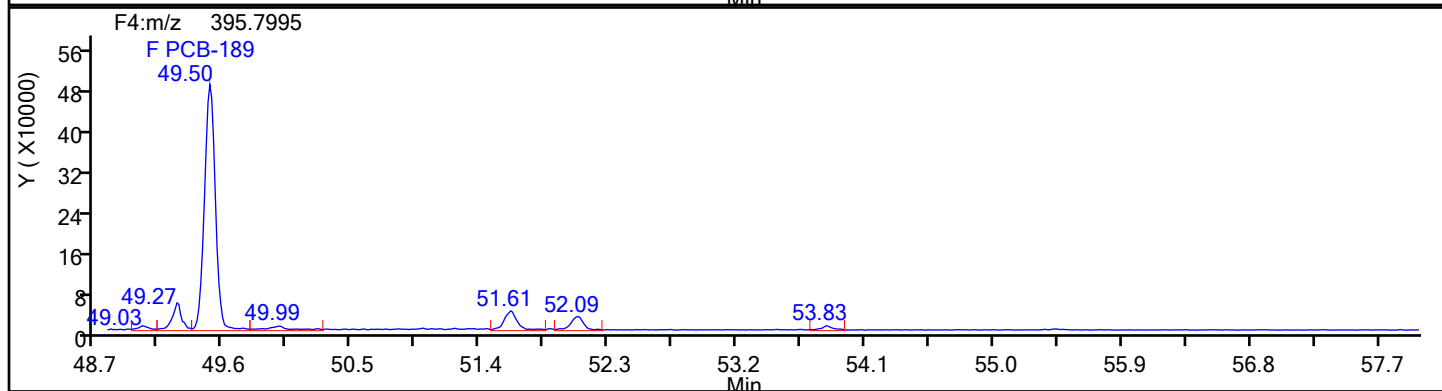
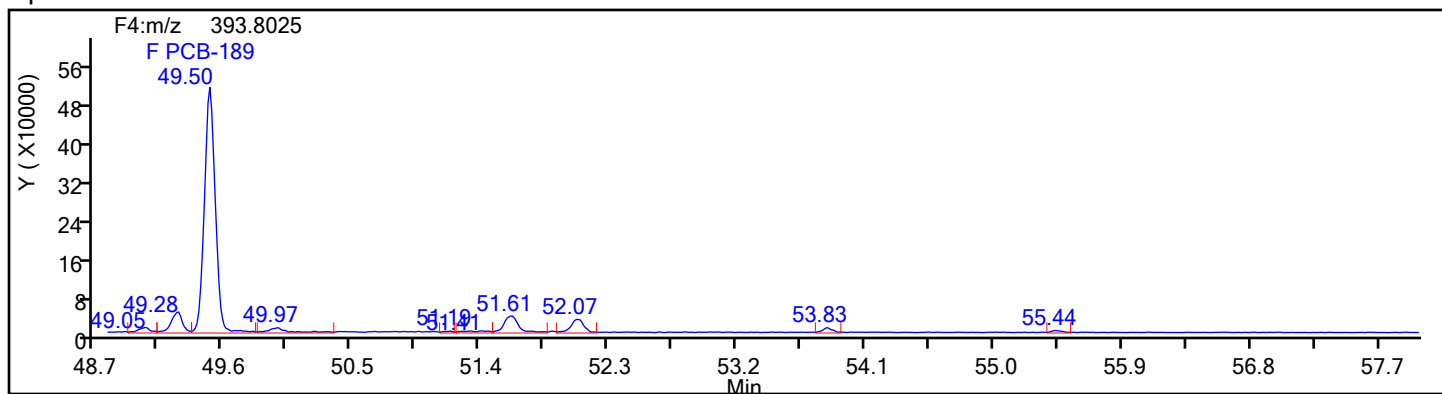
Worklist#: 87502

Sample Line#: 1

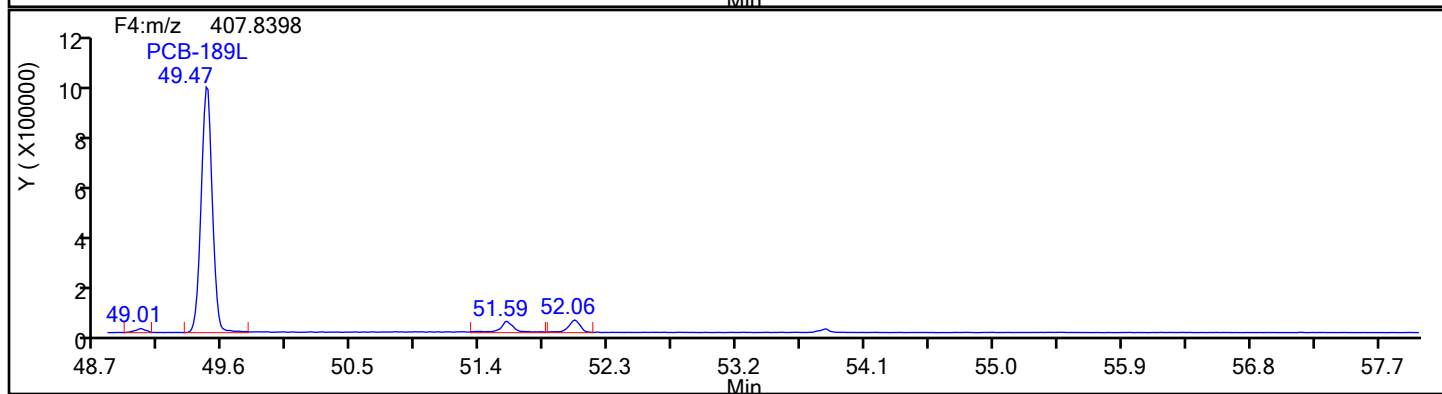
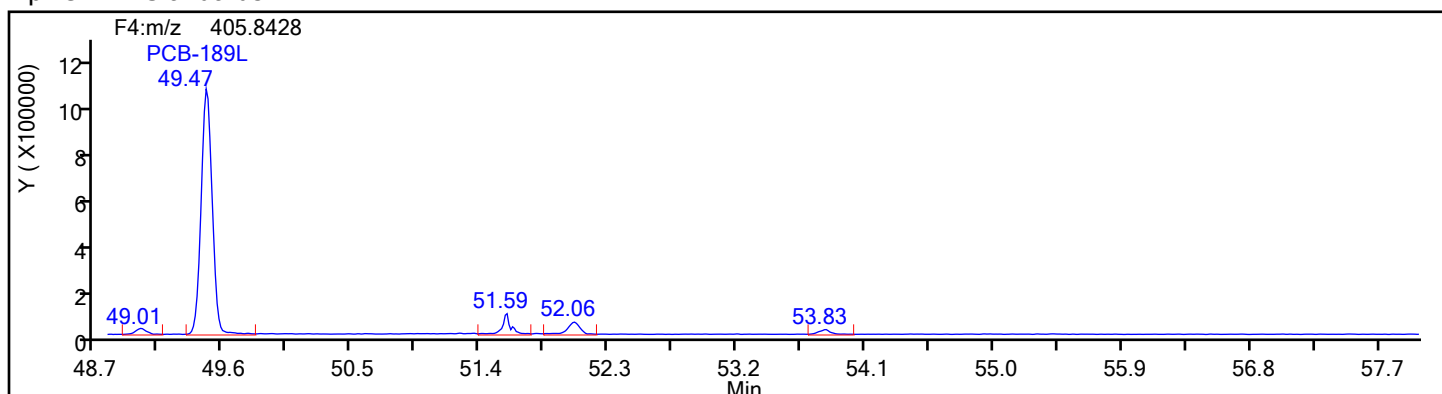
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

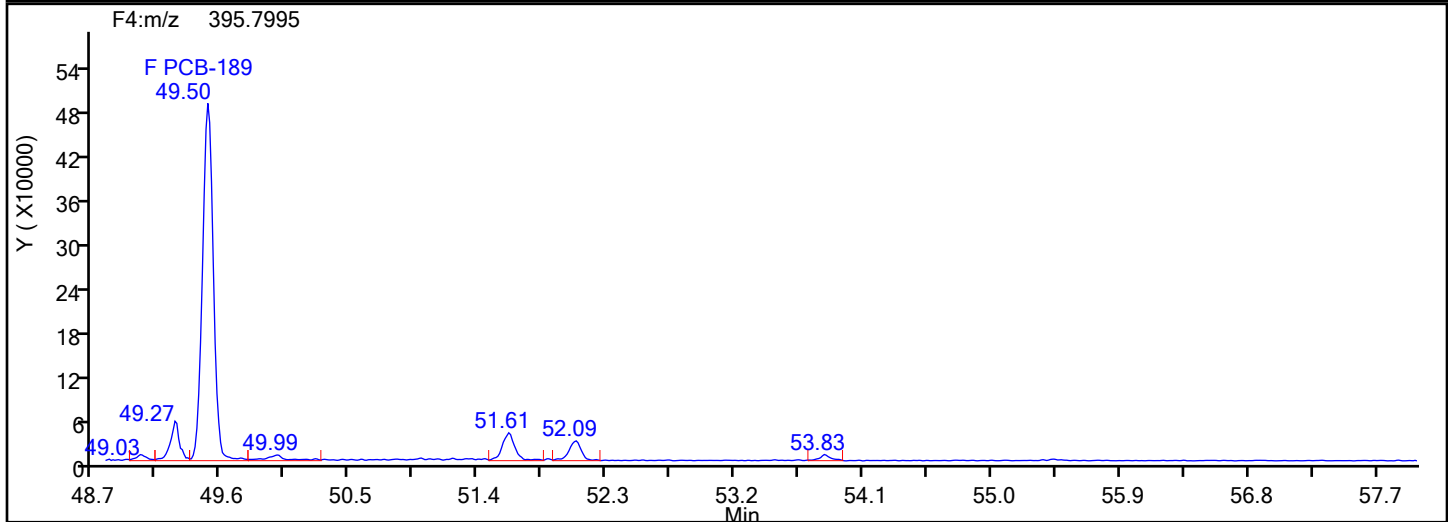
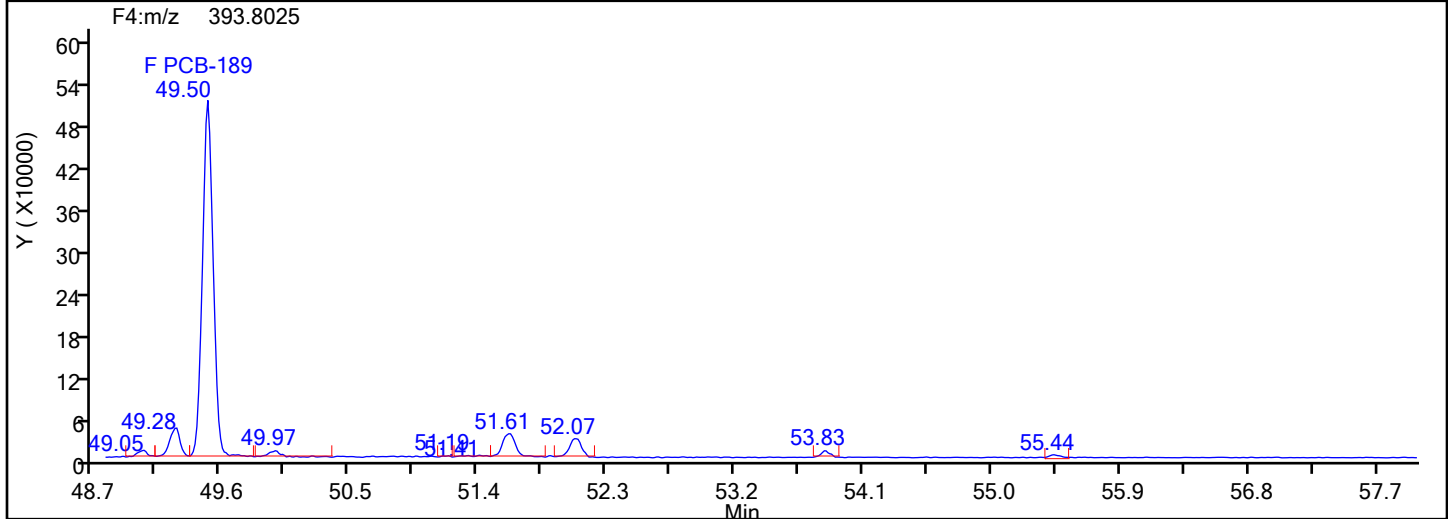
Worklist#: 87502

Sample Line#: 1

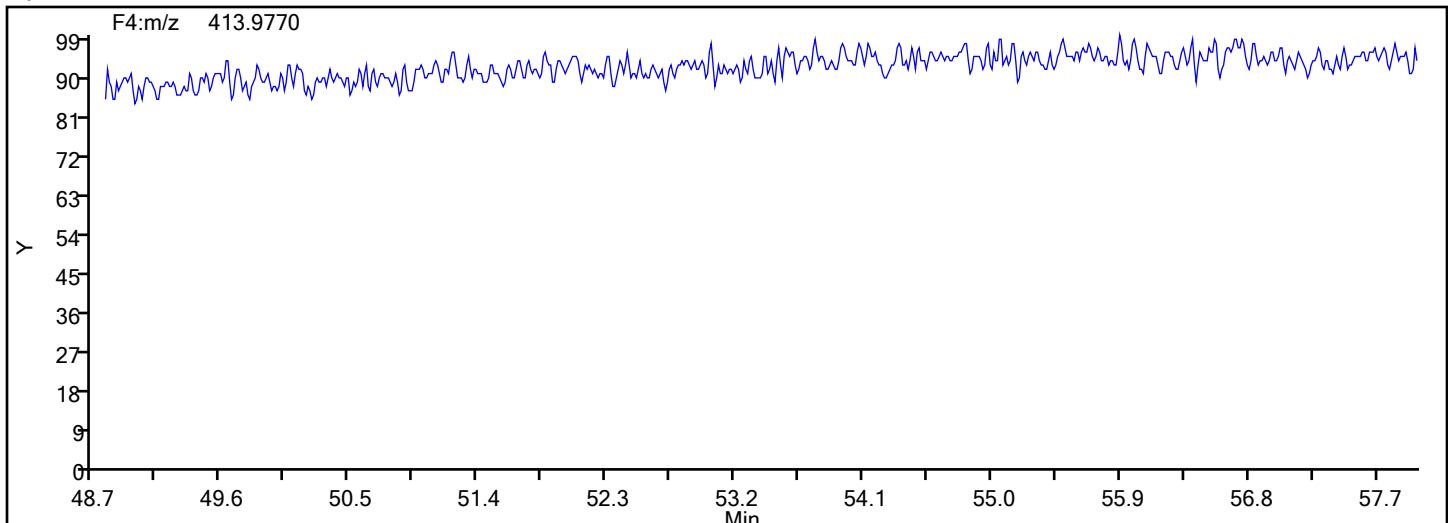
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

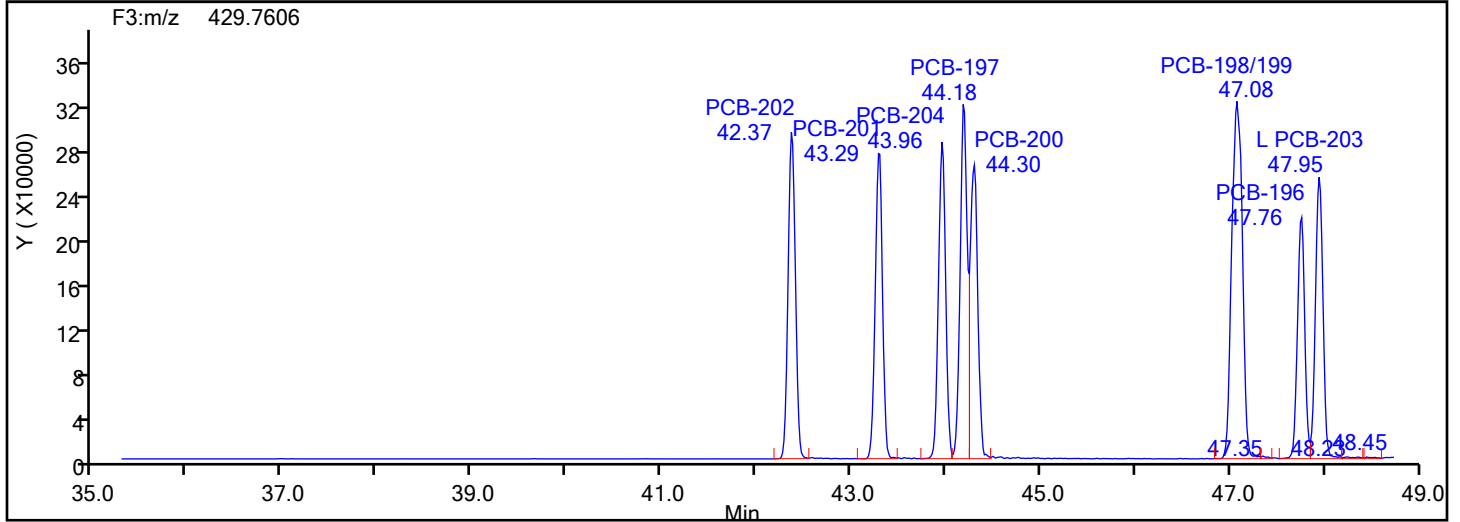
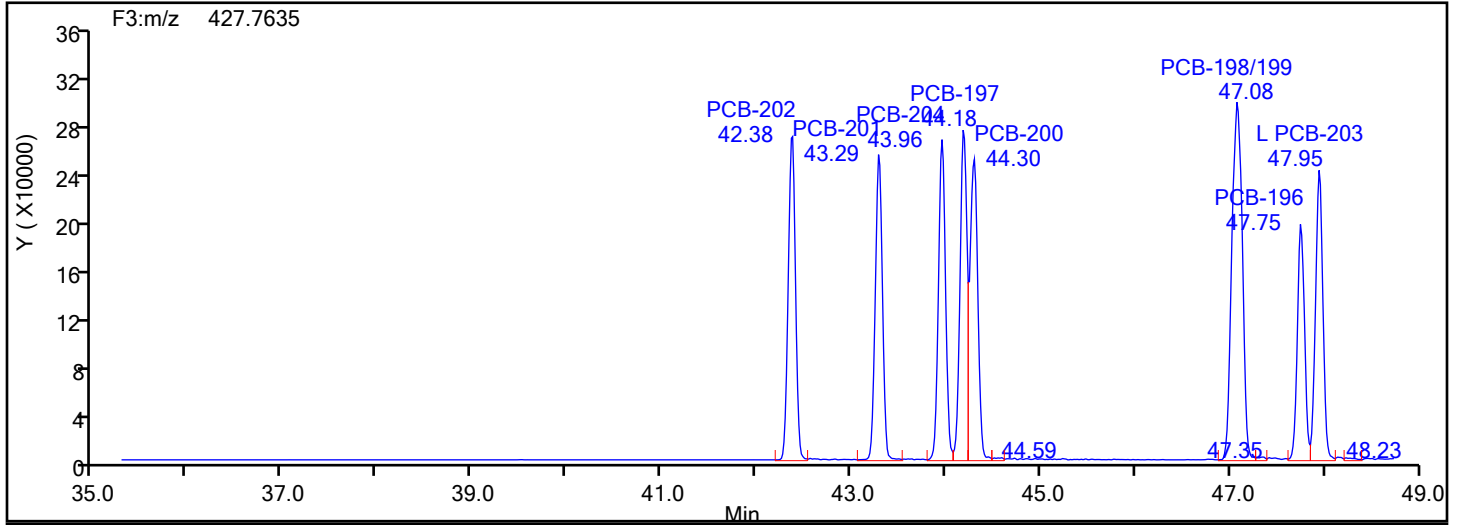
Worklist#: 87502

Sample Line#: 1

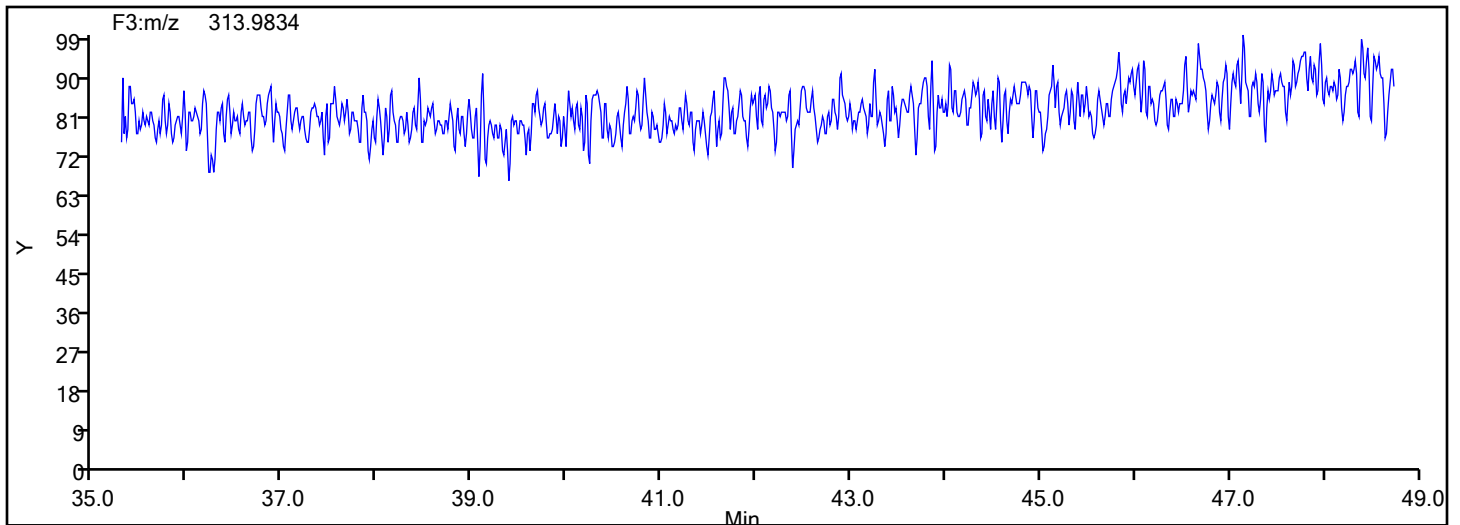
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Vol: 1.0 ul

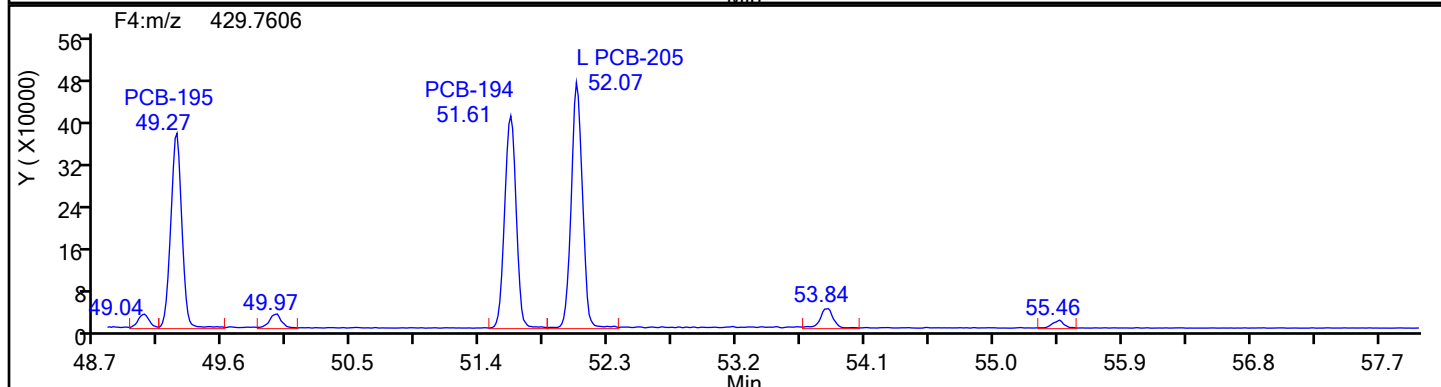
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

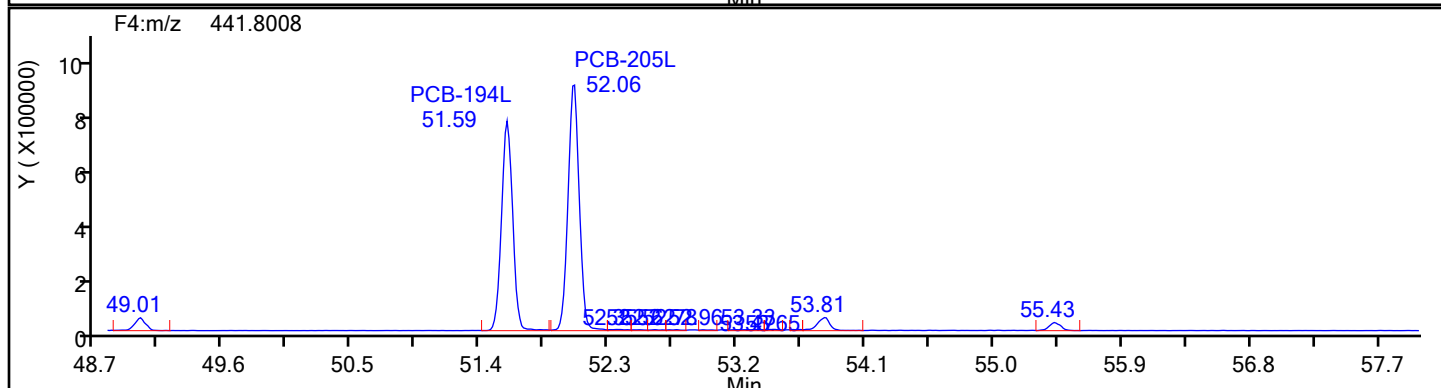
Sample Line#: 1

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

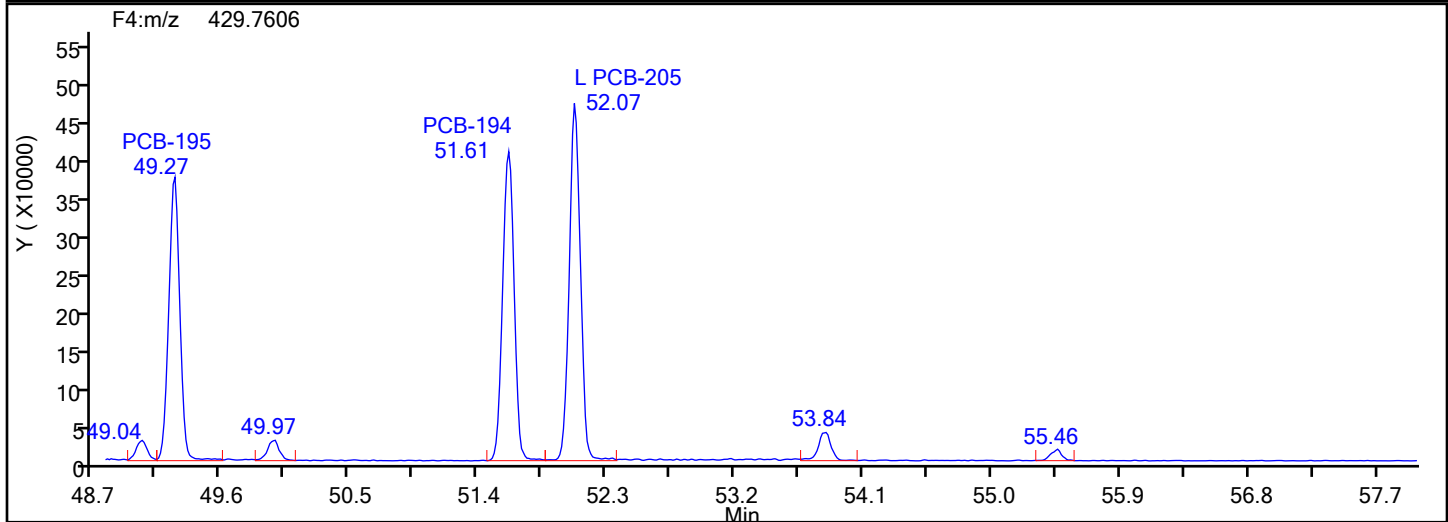
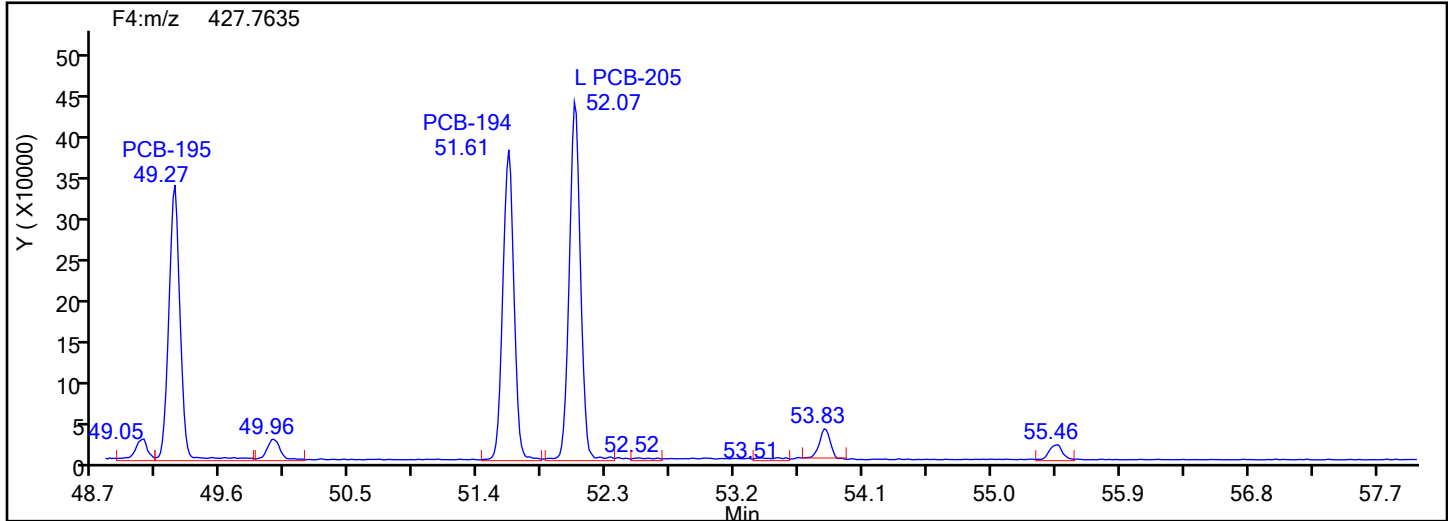
Worklist#: 87502

Sample Line#: 1

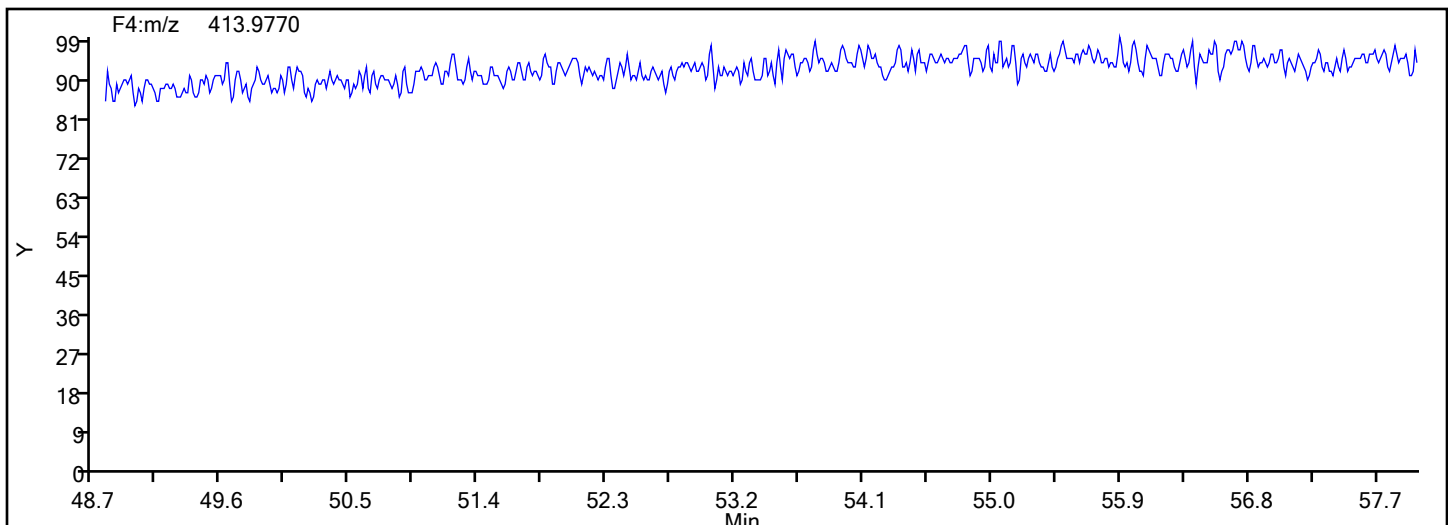
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

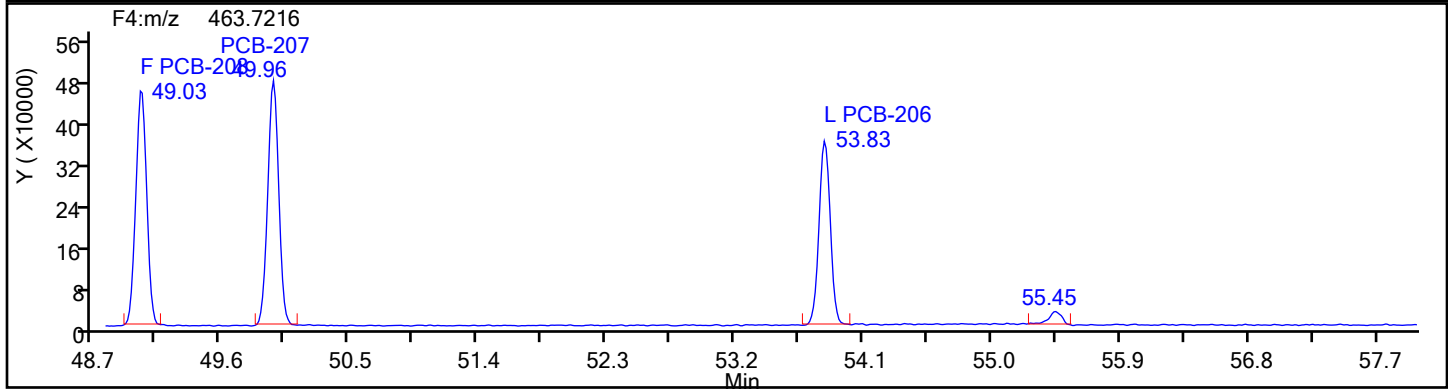
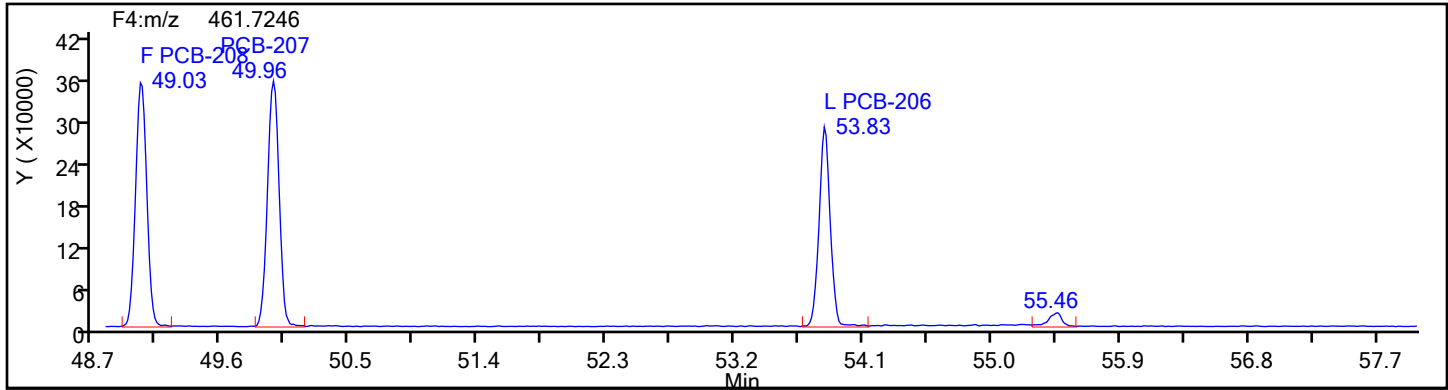


OcPCB F4 Lock Mass

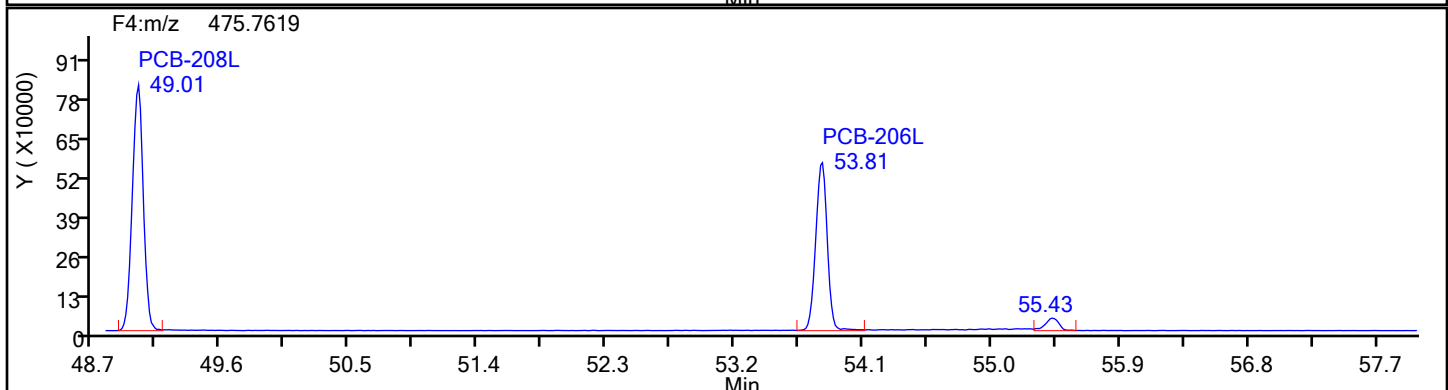
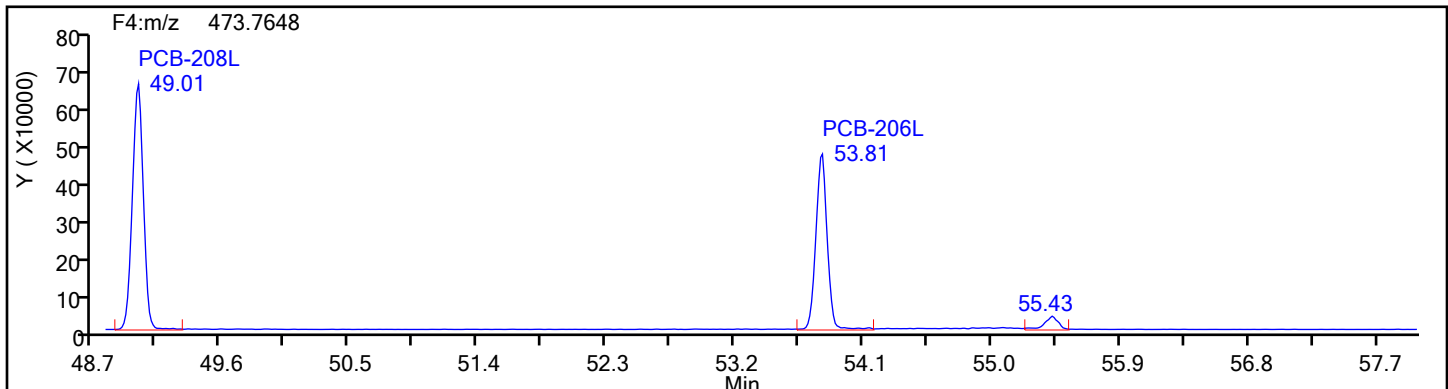


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d
Injection Date: 11-Jun-2024 09:41:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87502 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

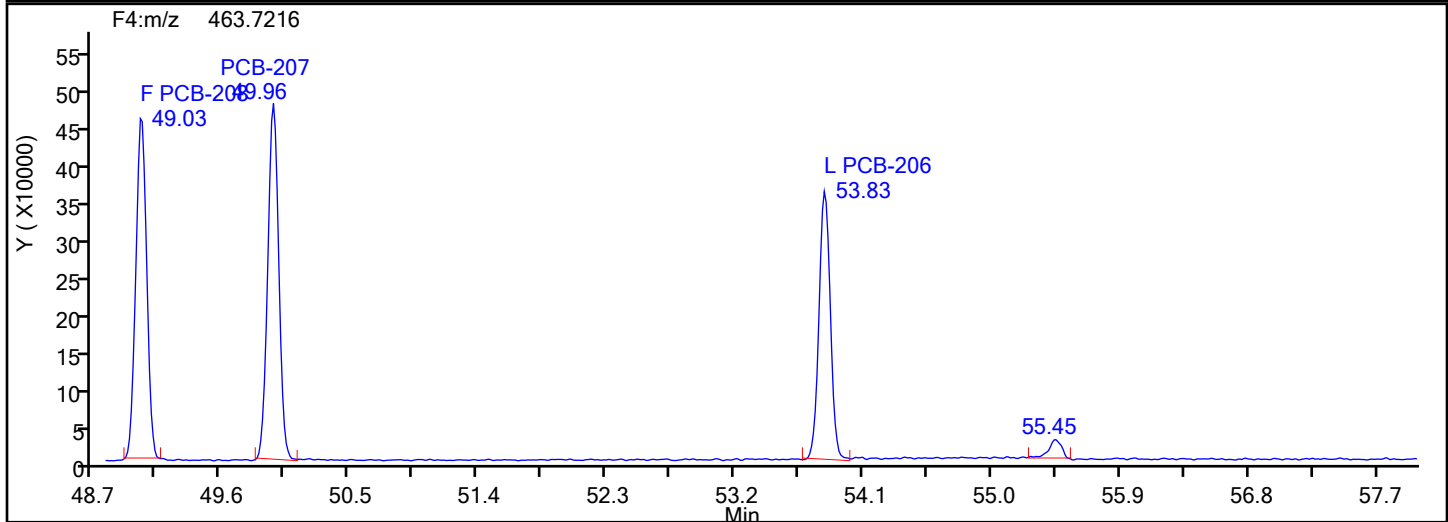
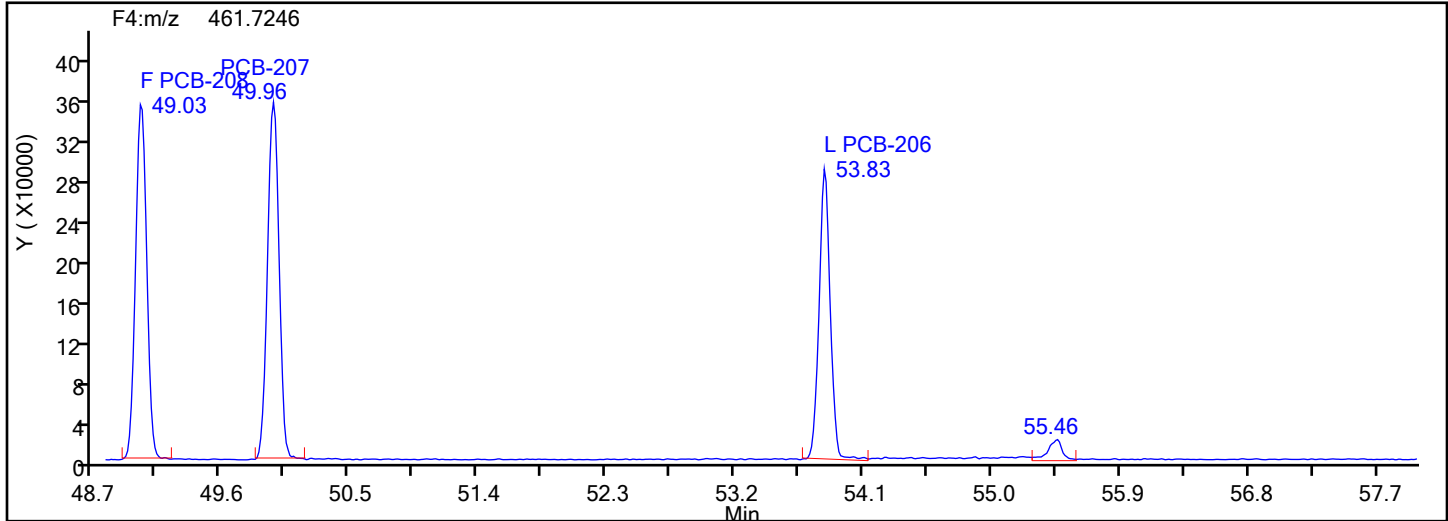
Worklist#: 87502

Sample Line#: 1

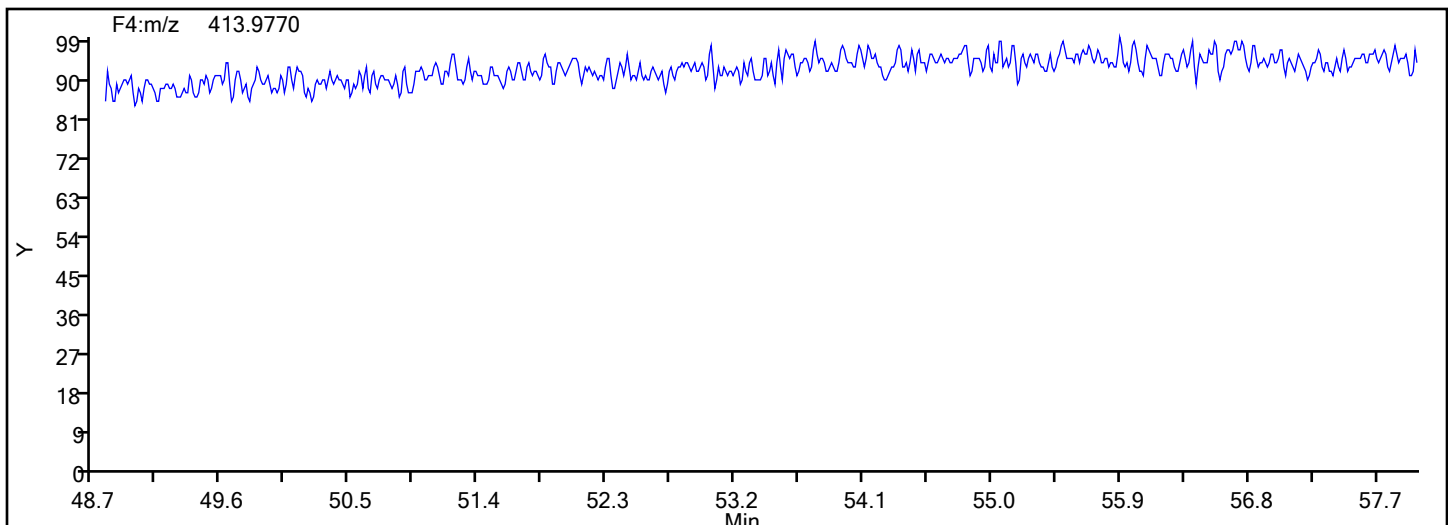
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

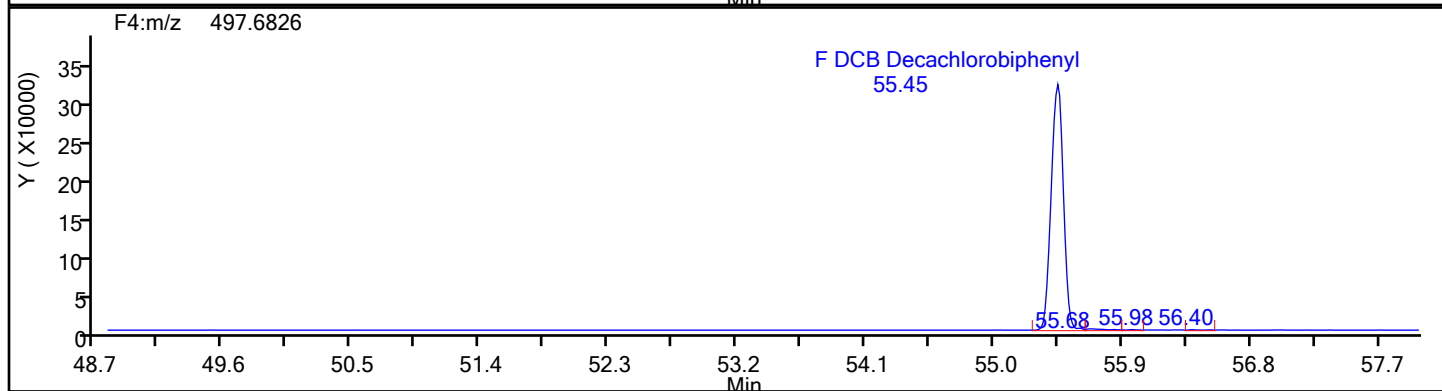
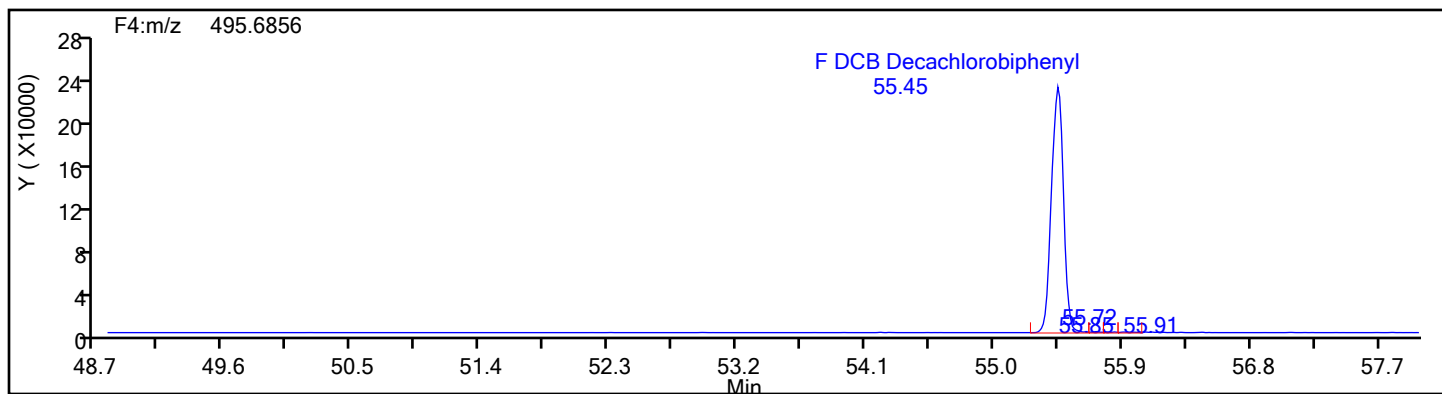
Worklist#: 87502

Sample Line#: 1

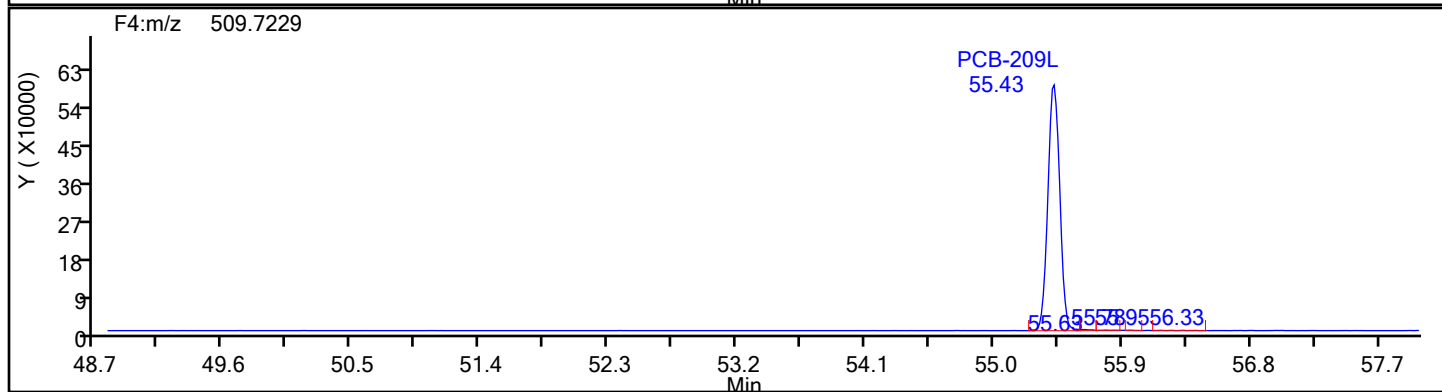
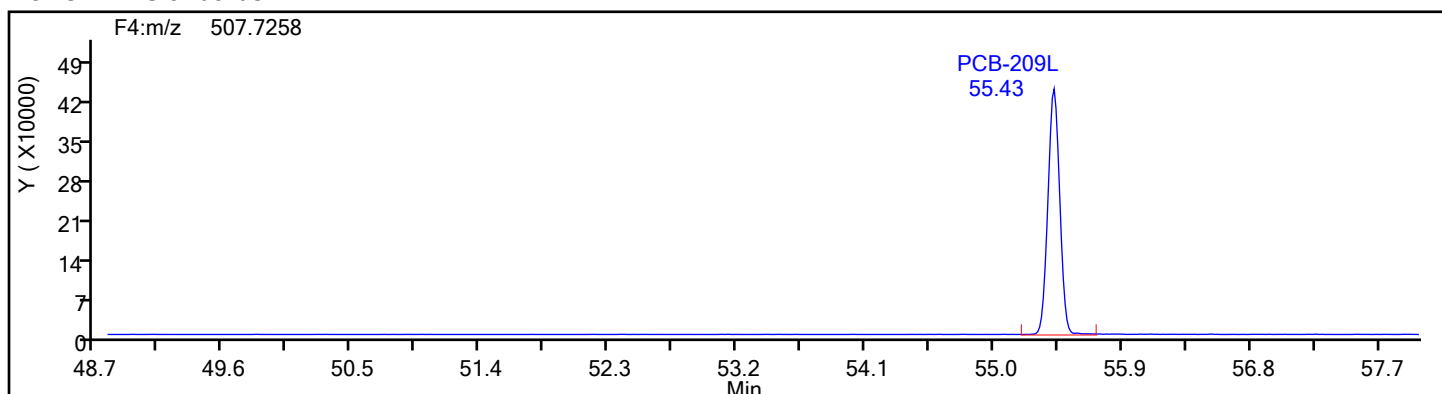
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\d2240611c1a.d

Injection Date: 11-Jun-2024 09:41:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

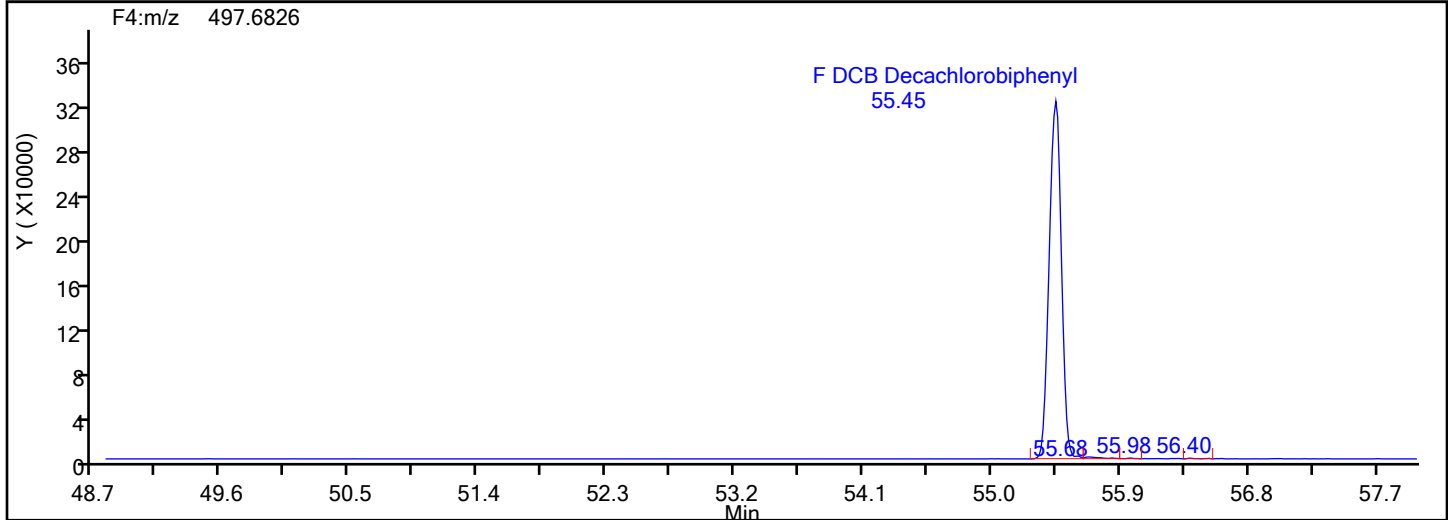
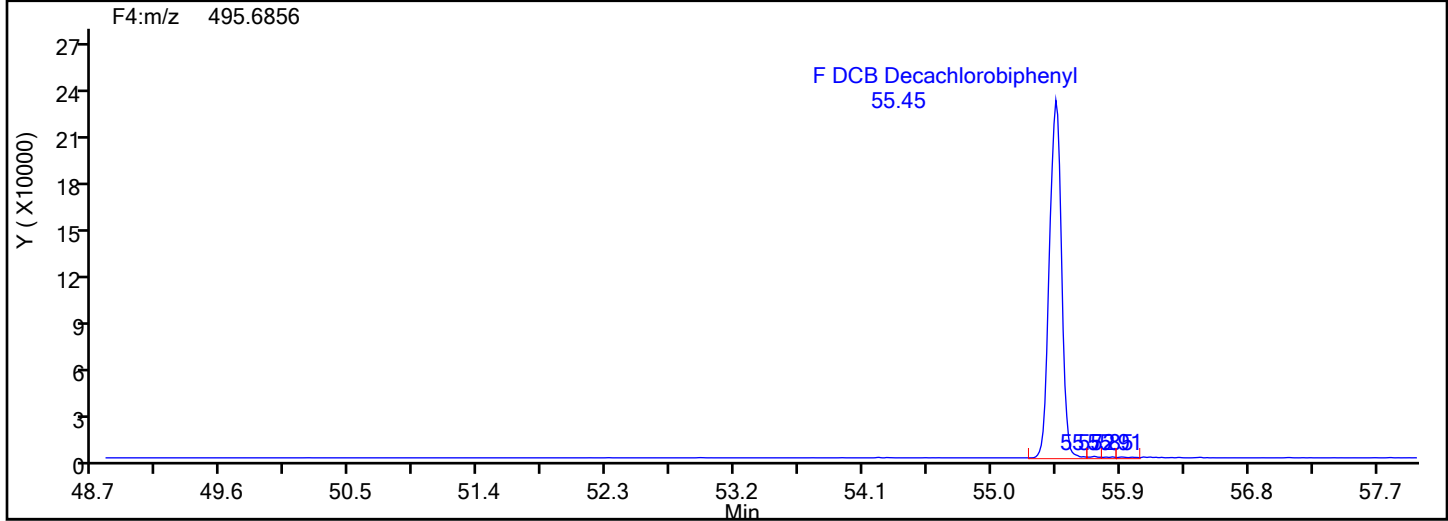
Worklist#: 87502

Sample Line#: 1

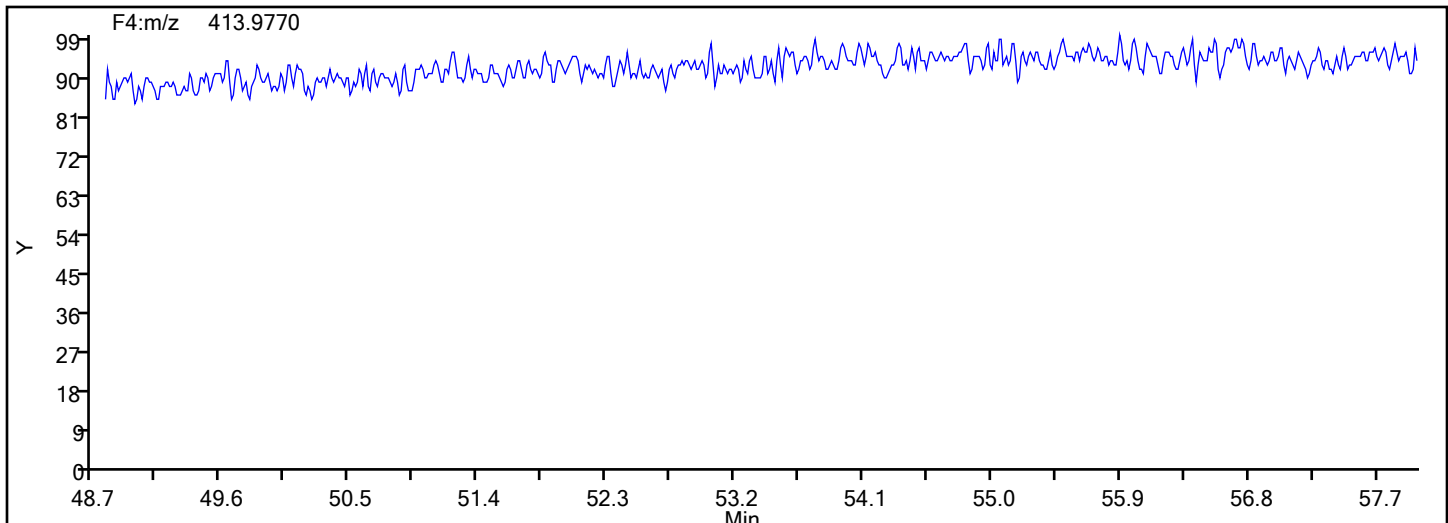
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-87536/1 Calibration Date: 06/11/2024 21:36

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240611c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1	AveID	1.219	1.211		49.7	50.0	-0.7	25.0
PCB-2	AveID	1.181	1.188		50.3	50.0	0.6	25.0
PCB-3	AveID	1.221	1.199		49.1	50.0	-1.7	25.0
PCB-4	AveID	1.282	1.279		49.9	50.0	-0.3	25.0
PCB-10	AveID	1.315	1.321		50.2	50.0	0.5	25.0
PCB-9	AveID	1.422	1.435		50.5	50.0	0.9	25.0
PCB-7	AveID	1.413	1.381		48.9	50.0	-2.3	25.0
PCB-6	AveID	1.542	1.545		50.1	50.0	0.2	25.0
PCB-5	AveID	1.339	1.357		50.6	50.0	1.3	25.0
PCB-8	AveID	1.589	1.588		50.0	50.0	-0.0	25.0
PCB-19	AveID	1.281	1.286		50.2	50.0	0.4	25.0
PCB-14	AveID	1.402	1.410		50.3	50.0	0.5	25.0
PCB-18	AveID	1.765	1.800		102	100	2.0	25.0
PCB-18/30	AveID	1.765	1.800		102	100	2.0	25.0
PCB-30	AveID	1.765	1.800		102	100	2.0	25.0
PCB-11	AveID	1.295	1.284		49.6	50.0	-0.9	25.0
PCB-17	AveID	1.243	1.258		50.6	50.0	1.2	25.0
PCB-12	AveID	1.336	1.327		99.4	100	-0.7	25.0
PCB-12/13	AveID	1.336	1.327		99.4	100	-0.7	25.0
PCB-13	AveID	1.336	1.327		99.4	100	-0.7	25.0
PCB-27	AveID	1.833	1.848		50.4	50.0	0.8	25.0
PCB-24	AveID	1.678	1.744		52.0	50.0	4.0	25.0
PCB-16	AveID	1.129	1.185		52.5	50.0	5.0	25.0
PCB-15	AveID	1.290	1.300		50.4	50.0	0.8	25.0
PCB-54	AveID	1.273	1.274		50.0	50.0	0.0	25.0
PCB-32	AveID	1.832	1.876		51.2	50.0	2.4	25.0
PCB-34	AveID	1.128	1.103		48.9	50.0	-2.2	25.0
PCB-23	AveID	1.081	1.057		48.9	50.0	-2.2	25.0
PCB-26	AveID	1.125	1.103		98.0	100	-2.0	25.0
PCB-26/29	AveID	1.125	1.103		98.0	100	-2.0	25.0
PCB-29	AveID	1.125	1.103		98.0	100	-2.0	25.0
PCB-25	AveID	1.273	1.254		49.3	50.0	-1.5	25.0
PCB-50	AveID	0.8578	0.8398		97.9	100	-2.1	25.0
PCB-50/53	AveID	0.8578	0.8398		97.9	100	-2.1	25.0
PCB-53	AveID	0.8578	0.8398		97.9	100	-2.1	25.0
PCB-31	AveID	1.153	1.135		49.2	50.0	-1.6	25.0
PCB-20	AveID	1.172	1.128		96.2	100	-3.8	25.0
PCB-20/28	AveID	1.172	1.128		96.2	100	-3.8	25.0
PCB-28	AveID	1.172	1.128		96.2	100	-3.8	25.0
PCB-21	AveID	1.075	1.052		97.9	100	-2.1	25.0
PCB-21/33	AveID	1.075	1.052		97.9	100	-2.1	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-87536/1 Calibration Date: 06/11/2024 21:36

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240611c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-33	AveID	1.075	1.052		97.9	100	-2.1	25.0
PCB-45	AveID	0.8264	0.8267		100	100	0.0	25.0
PCB-45/51	AveID	0.8264	0.8267		100	100	0.0	25.0
PCB-51	AveID	0.8264	0.8267		100	100	0.0	25.0
PCB-46	AveID	0.7101	0.6937		48.9	50.0	-2.3	25.0
PCB-22	AveID	1.193	1.154		48.4	50.0	-3.3	25.0
PCB-52	AveID	0.9194	0.8989		48.9	50.0	-2.2	25.0
PCB-43	AveID	1.033	1.016		98.3	100	-1.7	25.0
PCB-43/73	AveID	1.033	1.016		98.3	100	-1.7	25.0
PCB-73	AveID	1.033	1.016		98.3	100	-1.7	25.0
PCB-36	AveID	1.107	1.083		48.9	50.0	-2.1	25.0
PCB-49	AveID	1.069	1.016		95.1	100	-4.9	25.0
PCB-49/69	AveID	1.069	1.016		95.1	100	-4.9	25.0
PCB-69	AveID	1.069	1.016		95.1	100	-4.9	25.0
PCB-39	AveID	1.158	1.146		49.5	50.0	-1.1	25.0
PCB-48	AveID	0.8399	0.8133		48.4	50.0	-3.2	25.0
PCB-104	AveID	1.009	0.9866		48.9	50.0	-2.2	25.0
PCB-44	AveID	0.9731	0.9187		142	150	-5.6	25.0
PCB-44/47/65	AveID	0.9731	0.9187		142	150	-5.6	25.0
PCB-47	AveID	0.9731	0.9187		142	150	-5.6	25.0
PCB-65	AveID	0.9731	0.9187		142	150	-5.6	25.0
PCB-38	AveID	1.084	1.042		48.1	50.0	-3.9	25.0
PCB-59	AveID	1.185	1.101		139	150	-7.1	25.0
PCB-59/62/75	AveID	1.185	1.101		139	150	-7.1	25.0
PCB-62	AveID	1.185	1.101		139	150	-7.1	25.0
PCB-75	AveID	1.185	1.101		139	150	-7.1	25.0
PCB-96	AveID	1.094	1.045		47.8	50.0	-4.4	25.0
PCB-42	AveID	0.8097	0.7941		49.0	50.0	-1.9	25.0
PCB-35	AveID	1.130	1.077		47.7	50.0	-4.7	25.0
PCB-40	AveID	0.8863	0.8373		142	150	-5.5	25.0
PCB-40/41/71	AveID	0.8863	0.8373		142	150	-5.5	25.0
PCB-41	AveID	0.8863	0.8373		142	150	-5.5	25.0
PCB-71	AveID	0.8863	0.8373		142	150	-5.5	25.0
PCB-37	AveID	1.144	1.074		47.0	50.0	-6.1	25.0
PCB-64	AveID	1.178	1.102		46.8	50.0	-6.4	25.0
PCB-72	AveID	1.094	1.070		48.9	50.0	-2.2	25.0
PCB-103	AveID	0.8741	0.8544		48.9	50.0	-2.3	25.0
PCB-68	AveID	1.253	1.245		49.7	50.0	-0.7	25.0
PCB-94	AveID	0.7640	0.7142		46.7	50.0	-6.5	25.0
PCB-57	AveID	1.082	1.062		49.1	50.0	-1.8	25.0
PCB-95	AveID	0.8033	0.7969		49.6	50.0	-0.8	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-87536/1 Calibration Date: 06/11/2024 21:36
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240611c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-58	AveID	1.325	1.314		49.6	50.0	-0.9	25.0
PCB-100	AveID	0.8429	0.7934		94.1	100	-5.9	25.0
PCB-93	AveID	0.8429	0.7934		94.1	100	-5.9	25.0
PCB-93/100	AveID	0.8429	0.7934		94.1	100	-5.9	25.0
PCB-67	AveID	1.423	1.327		46.6	50.0	-6.8	25.0
PCB-102	AveID	0.8262	0.7974		96.5	100	-3.5	25.0
PCB-98	AveID	0.8262	0.7974		96.5	100	-3.5	25.0
PCB-98/102	AveID	0.8262	0.7974		96.5	100	-3.5	25.0
PCB-63	AveID	1.124	1.039		46.2	50.0	-7.5	25.0
PCB-88	AveID	0.8013	0.7721		96.4	100	-3.6	25.0
PCB-88/91	AveID	0.8013	0.7721		96.4	100	-3.6	25.0
PCB-91	AveID	0.8013	0.7721		96.4	100	-3.6	25.0
PCB-61	AveID	1.261	1.181		187	200	-6.3	25.0
PCB-61/70/74/76	AveID	1.261	1.181		187	200	-6.3	25.0
PCB-70	AveID	1.261	1.181		187	200	-6.3	25.0
PCB-74	AveID	1.261	1.181		187	200	-6.3	25.0
PCB-76	AveID	1.261	1.181		187	200	-6.3	25.0
PCB-84	AveID	0.7299	0.7218		49.4	50.0	-1.1	25.0
PCB-66	AveID	1.258	1.231		48.9	50.0	-2.1	25.0
PCB-55	AveID	1.324	1.258		47.5	50.0	-4.9	25.0
PCB-89	AveID	0.7798	0.7395		47.4	50.0	-5.2	25.0
PCB-56	AveID	1.233	1.168		47.3	50.0	-5.3	25.0
PCB-121	AveID	1.296	1.266		48.8	50.0	-2.3	25.0
PCB-60	AveID	1.123	1.053		46.9	50.0	-6.3	25.0
PCB-92	AveID	0.8546	0.8390		49.1	50.0	-1.8	25.0
PCB-80	AveID	1.324	1.251		47.3	50.0	-5.5	25.0
PCB-155	AveID	0.9444	0.9538		50.5	50.0	1.0	25.0
PCB-152	AveID	0.9895	0.9435		47.7	50.0	-4.7	25.0
PCB-101	AveID	0.9550	0.9216		145	150	-3.5	25.0
PCB-113	AveID	0.9550	0.9216		145	150	-3.5	25.0
PCB-90	AveID	0.9550	0.9216		145	150	-3.5	25.0
PCB-90/101/113	AveID	0.9550	0.9216		145	150	-3.5	25.0
PCB-150	AveID	1.013	0.9802		48.4	50.0	-3.3	25.0
PCB-136	AveID	1.012	1.031		51.0	50.0	1.9	25.0
PCB-83	AveID	0.8385	0.8249		98.4	100	-1.6	25.0
PCB-83/99	AveID	0.8385	0.8249		98.4	100	-1.6	25.0
PCB-99	AveID	0.8385	0.8249		98.4	100	-1.6	25.0
PCB-112	AveID	1.411	1.371		48.6	50.0	-2.8	25.0
PCB-145	AveID	0.9685	0.9645		49.8	50.0	-0.4	25.0
PCB-109	AveID	1.047	0.9855		282	300	-5.9	25.0
PCB-119	AveID	1.047	0.9855		282	300	-5.9	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-87536/1 Calibration Date: 06/11/2024 21:36

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240611c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-125	AveID	1.047	0.9855		282	300	-5.9	25.0
PCB-86	AveID	1.047	0.9855		282	300	-5.9	25.0
PCB-86/87/97/109/119/125	AveID	1.047	0.9855		282	300	-5.9	25.0
PCB-87	AveID	1.047	0.9855		282	300	-5.9	25.0
PCB-97	AveID	1.047	0.9855		282	300	-5.9	25.0
PCB-79	AveID	1.437	1.340		46.7	50.0	-6.7	25.0
PCB-78	AveID	1.162	1.106		47.6	50.0	-4.8	25.0
PCB-116	AveID	1.041	0.9898		143	150	-4.9	25.0
PCB-117	AveID	1.041	0.9898		143	150	-4.9	25.0
PCB-85	AveID	1.041	0.9898		143	150	-4.9	25.0
PCB-85/116/117	AveID	1.041	0.9898		143	150	-4.9	25.0
PCB-110	AveID	1.192	1.134		95.2	100	-4.8	25.0
PCB-110/115	AveID	1.192	1.134		95.2	100	-4.8	25.0
PCB-115	AveID	1.192	1.134		95.2	100	-4.8	25.0
PCB-81	AveID	1.080	1.034		47.9	50.0	-4.3	25.0
PCB-82	AveID	0.8303	0.8065		48.6	50.0	-2.9	25.0
PCB-148	AveID	0.7603	0.7530		49.5	50.0	-1.0	25.0
PCB-77	AveID	1.084	1.019		47.0	50.0	-5.9	25.0
PCB-111	AveID	1.213	1.176		48.5	50.0	-3.0	25.0
PCB-135	AveID	0.7256	0.7178		98.9	100	-1.1	25.0
PCB-135/151	AveID	0.7256	0.7178		98.9	100	-1.1	25.0
PCB-151	AveID	0.7256	0.7178		98.9	100	-1.1	25.0
PCB-120	AveID	1.476	1.443		48.9	50.0	-2.2	25.0
PCB-154	AveID	0.8129	0.8163		50.2	50.0	0.4	25.0
PCB-144	AveID	0.7852	0.7659		48.8	50.0	-2.5	25.0
PCB-147	AveID	0.8950	0.8760		97.9	100	-2.1	25.0
PCB-147/149	AveID	0.8950	0.8760		97.9	100	-2.1	25.0
PCB-149	AveID	0.8950	0.8760		97.9	100	-2.1	25.0
PCB-134	AveID	0.7967	0.7652		96.1	100	-4.0	25.0
PCB-134/143	AveID	0.7967	0.7652		96.1	100	-4.0	25.0
PCB-143	AveID	0.7967	0.7652		96.1	100	-4.0	25.0
PCB-108	AveID	1.141	1.072		94.0	100	-6.0	25.0
PCB-108/124	AveID	1.141	1.072		94.0	100	-6.0	25.0
PCB-124	AveID	1.141	1.072		94.0	100	-6.0	25.0
PCB-139	AveID	0.8769	0.8526		97.2	100	-2.8	25.0
PCB-139/140	AveID	0.8769	0.8526		97.2	100	-2.8	25.0
PCB-140	AveID	0.8769	0.8526		97.2	100	-2.8	25.0
PCB-107	AveID	1.212	1.228		50.7	50.0	1.3	25.0
PCB-131	AveID	0.7503	0.7279		48.5	50.0	-3.0	25.0
PCB-123	AveID	1.072	1.007		47.0	50.0	-6.1	25.0
PCB-106	AveID	1.084	1.082		49.9	50.0	-0.2	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-87536/1 Calibration Date: 06/11/2024 21:36

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240611c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-142	AveID	0.7507	0.7378		49.1	50.0	-1.7	25.0
PCB-118	AveID	1.206	1.189		49.3	50.0	-1.4	25.0
PCB-132	AveID	0.7489	0.7221		48.2	50.0	-3.6	25.0
PCB-122	AveID	0.9567	0.9441		49.3	50.0	-1.3	25.0
PCB-114	AveID	1.084	1.070		49.3	50.0	-1.3	25.0
PCB-188	AveID	1.135	1.107		48.8	50.0	-2.5	25.0
PCB-133	AveID	0.8096	0.7866		48.6	50.0	-2.8	25.0
PCB-179	AveID	1.428	1.349		47.2	50.0	-5.5	25.0
PCB-165	AveID	1.025	1.002		48.9	50.0	-2.2	25.0
PCB-105	AveID	1.188	1.155		48.6	50.0	-2.7	25.0
PCB-146	AveID	0.9637	0.9445		49.0	50.0	-2.0	25.0
PCB-184	AveID	1.367	1.337		48.9	50.0	-2.2	25.0
PCB-161	AveID	1.129	1.084		48.0	50.0	-3.9	25.0
PCB-176	AveID	1.233	1.177		47.7	50.0	-4.5	25.0
PCB-153	AveID	1.094	1.075		98.2	100	-1.8	25.0
PCB-153/168	AveID	1.094	1.075		98.2	100	-1.8	25.0
PCB-168	AveID	1.094	1.075		98.2	100	-1.8	25.0
PCB-141	AveID	0.8755	0.8424		48.1	50.0	-3.8	25.0
PCB-186	AveID	1.474	1.451		49.2	50.0	-1.5	25.0
PCB-130	AveID	0.7051	0.6891		48.9	50.0	-2.3	25.0
PCB-127	AveID	1.139	1.140		50.0	50.0	0.0	25.0
PCB-137	AveID	0.7767	0.7633		49.1	50.0	-1.7	25.0
PCB-164	AveID	1.038	1.029		49.6	50.0	-0.9	25.0
PCB-129	AveID	0.9464	0.9074		192	200	-4.1	25.0
PCB-129/138/160/163	AveID	0.9464	0.9074		192	200	-4.1	25.0
PCB-138	AveID	0.9464	0.9074		192	200	-4.1	25.0
PCB-160	AveID	0.9464	0.9074		192	200	-4.1	25.0
PCB-163	AveID	0.9464	0.9074		192	200	-4.1	25.0
PCB-158	AveID	1.311	1.242		47.4	50.0	-5.2	25.0
PCB-178	AveID	0.8946	0.8686		48.5	50.0	-2.9	25.0
PCB-175	AveID	0.9524	0.9212		48.4	50.0	-3.3	25.0
PCB-126	AveID	1.098	1.112		50.7	50.0	1.3	25.0
PCB-128	AveID	0.9829	0.9659		98.3	100	-1.7	25.0
PCB-128/166	AveID	0.9829	0.9659		98.3	100	-1.7	25.0
PCB-166	AveID	0.9829	0.9659		98.3	100	-1.7	25.0
PCB-187	AveID	1.102	1.073		48.7	50.0	-2.6	25.0
PCB-182	AveID	0.9247	0.9463		51.2	50.0	2.3	25.0
PCB-183	AveID	0.9825	0.8964		91.2	100	-8.8	25.0
PCB-183/185	AveID	0.9825	0.8964		91.2	100	-8.8	25.0
PCB-185	AveID	0.9825	0.8964		91.2	100	-8.8	25.0
PCB-174	AveID	0.9642	0.9665		50.1	50.0	0.2	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-87536/1 Calibration Date: 06/11/2024 21:36

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240611c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-159	AveID	1.386	1.326		47.9	50.0	-4.3	25.0
PCB-162	AveID	1.257	1.218		48.5	50.0	-3.1	25.0
PCB-177	AveID	0.9773	0.9252		47.3	50.0	-5.3	25.0
PCB-202	AveID	1.036	1.061		51.2	50.0	2.4	25.0
PCB-167	AveID	1.116	1.069		47.9	50.0	-4.2	25.0
PCB-181	AveID	0.9505	0.9178		48.3	50.0	-3.4	25.0
PCB-171	AveID	0.9336	0.8569		91.8	100	-8.2	25.0
PCB-171/173	AveID	0.9336	0.8569		91.8	100	-8.2	25.0
PCB-173	AveID	0.9336	0.8569		91.8	100	-8.2	25.0
PCB-201	AveID	0.9754	0.9835		50.4	50.0	0.8	25.0
PCB-156	AveID	1.110	1.091		98.3	100	-1.7	25.0
PCB-156/157	AveID	1.110	1.091		98.3	100	-1.7	25.0
PCB-157	AveID	1.110	1.091		98.3	100	-1.7	25.0
PCB-204	AveID	1.049	1.056		50.4	50.0	0.7	25.0
PCB-197	AveID	1.146	1.138		49.7	50.0	-0.7	25.0
PCB-200	AveID	1.007	1.008		50.1	50.0	0.1	25.0
PCB-172	AveID	0.8519	0.8232		48.3	50.0	-3.4	25.0
PCB-192	AveID	1.346	1.357		50.4	50.0	0.8	25.0
PCB-180	AveID	1.168	1.153		98.8	100	-1.2	25.0
PCB-180/193	AveID	1.168	1.153		98.8	100	-1.2	25.0
PCB-193	AveID	1.168	1.153		98.8	100	-1.2	25.0
PCB-191	AveID	1.289	1.275		49.5	50.0	-1.1	25.0
PCB-170	AveID	1.187	1.139		48.0	50.0	-4.0	25.0
PCB-190	AveID	1.332	1.313		49.3	50.0	-1.4	25.0
PCB-169	AveID	1.163	1.149		49.4	50.0	-1.2	25.0
PCB-198	AveID	0.8698	0.8424		96.9	100	-3.1	25.0
PCB-198/199	AveID	0.8698	0.8424		96.9	100	-3.1	25.0
PCB-199	AveID	0.8698	0.8424		96.9	100	-3.1	25.0
PCB-196	AveID	0.7806	0.8070		51.7	50.0	3.4	25.0
PCB-203	AveID	0.9292	0.9591		51.6	50.0	3.2	25.0
PCB-208	AveID	1.137	1.100		48.4	50.0	-3.3	25.0
PCB-195	AveID	0.8263	0.8233		49.8	50.0	-0.4	25.0
PCB-189	AveID	0.9633	0.9597		49.8	50.0	-0.4	25.0
PCB-207	AveID	1.376	1.277		46.4	50.0	-7.2	25.0
PCB-194	AveID	0.9735	0.9417		48.4	50.0	-3.3	25.0
PCB-205	AveID	1.088	1.064		48.9	50.0	-2.2	25.0
PCB-206	AveID	1.335	1.217		45.6	50.0	-8.8	25.0
PCB-209	AveID	1.100	1.081		49.1	50.0	-1.7	25.0
PCB-1L	Ave	1.611	1.544		95.8	100	-4.2	30.0
PCB-3L	Ave	1.589	1.513		95.2	100	-4.8	30.0
PCB-4L	Ave	0.6475	0.6502		100	100	0.4	30.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
 SDG No.: _____
 Lab Sample ID: WDMCCV 140-87536/1 Calibration Date: 06/11/2024 21:36
 Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
 GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
 Lab File ID: d2240611c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-19L	Ave	0.6285	0.6175		98.2	100	-1.8	30.0
PCB-15L	Ave	1.079	1.072		99.4	100	-0.6	30.0
PCB-54L	Ave	0.5562	0.5858		105	100	5.3	30.0
PCB-104L	Ave	1.216	1.268		104	100	4.3	30.0
PCB-37L	Ave	0.8749	0.8573		98.0	100	-2.0	30.0
PCB-155L	Ave	1.085	1.169		108	100	7.7	30.0
PCB-81L	Ave	1.247	1.207		96.8	100	-3.2	30.0
PCB-77L	Ave	1.321	1.293		97.9	100	-2.1	30.0
PCB-123L	Ave	0.9731	0.9523		97.9	100	-2.1	30.0
PCB-118L	Ave	1.010	1.005		99.5	100	-0.5	30.0
PCB-114L	Ave	0.9949	0.9866		99.2	100	-0.8	30.0
PCB-188L	Ave	1.313	1.315		100	100	0.1	30.0
PCB-105L	Ave	0.9514	0.9346		98.2	100	-1.8	30.0
PCB-126L	Ave	0.9439	0.9526		101	100	0.9	30.0
PCB-202L	Ave	0.9818	1.024		104	100	4.3	30.0
PCB-167L	Ave	1.257	1.273		101	100	1.3	30.0
PCB-156L	Ave	1.211	1.242		205	200	2.6	30.0
PCB-156L/157L	Ave	1.211	1.242		205	200	2.6	30.0
PCB-157L	Ave	1.211	1.242		205	200	2.6	30.0
PCB-170L	Ave	0.8362	0.8550		102	100	2.3	30.0
PCB-169L	Ave	1.244	1.272		102	100	2.2	30.0
PCB-208L	Ave	0.9576	1.037		108	100	8.3	30.0
PCB-189L	Ave	1.441	1.345		93.3	100	-6.7	30.0
PCB-205L	Ave	1.179	1.167		99.1	100	-0.9	30.0
PCB-206L	Ave	0.6947	0.7736		111	100	11.4	30.0
PCB-209L	Ave	0.6669	0.8359		125	100	25.3	30.0
PCB-8L	AveID	1.207	1.135		47.0	50.0	-5.9	25.0
PCB-28L	Ave	1.049	0.9738		46.4	50.0	-7.2	30.0
PCB-95L	AveID	0.7218	0.6905		47.8	50.0	-4.3	25.0
PCB-79L	AveID	1.002	0.9903		49.4	50.0	-1.2	25.0
PCB-111L	Ave	1.370	1.278		46.7	50.0	-6.7	30.0
PCB-153L	AveID	0.9169	0.8256		45.0	50.0	-10.0	25.0
PCB-178L	Ave	1.031	0.9398		45.6	50.0	-8.9	30.0

Resolution Check Report (DFS SN: 3190)

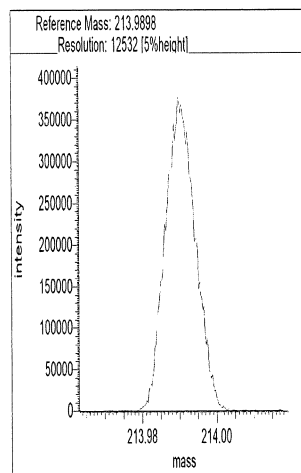
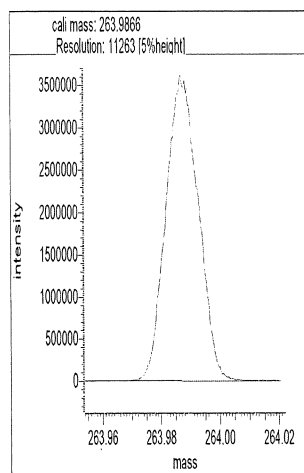
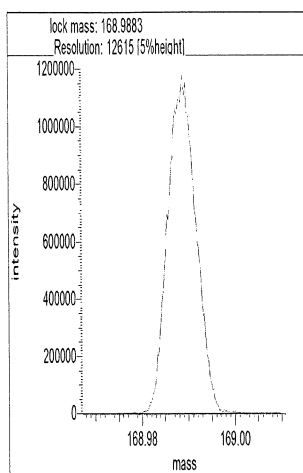
Date: 11 Jun 2024 21:10
MID Experiment: ResCheck_1668
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43KnxPCB.lua
Status: RESOLUTION PASSED

Segment 1

Lock mass 168.9883 [m/z] Resolution: 12615 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 11263 [5%height]

Ref. mass 213.9898 [m/z] Resolution: 12532 [5%height]



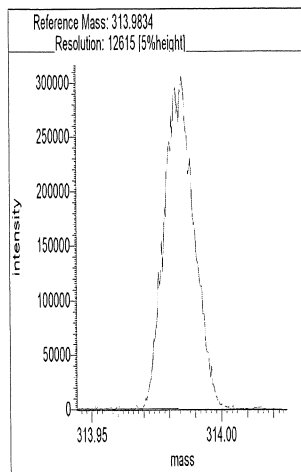
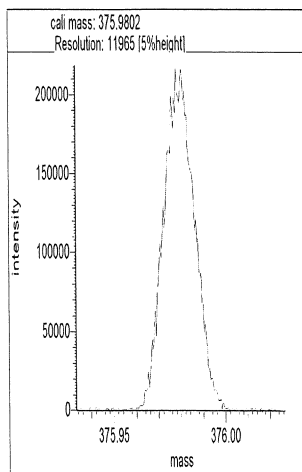
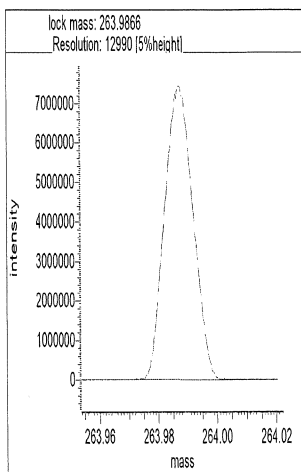
Segment 2

Lock mass 263.9866 [m/z] Resolution: 12990 [5%height]

Cali. mass 375.9802 [m/z] Resolution: 11965 [5%height]

Ref. mass 313.9834 [m/z] Resolution: 12615 [5%height]

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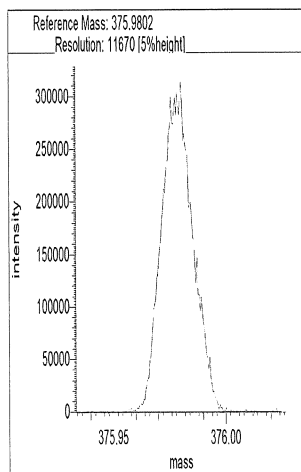
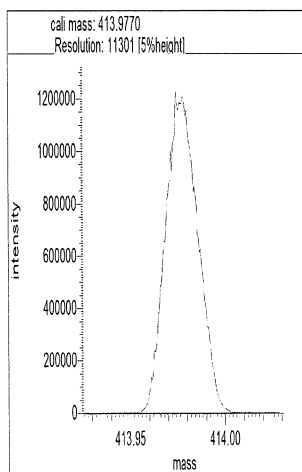
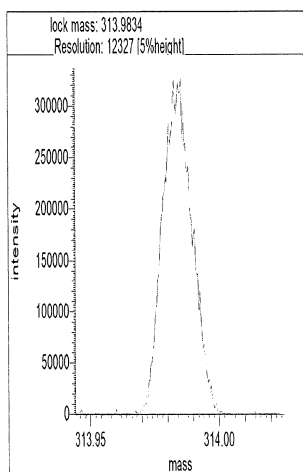


Segment 3

Lock mass 313.9834 [m/z] Resolution: 12327 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 11301 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 11670 [5%height]

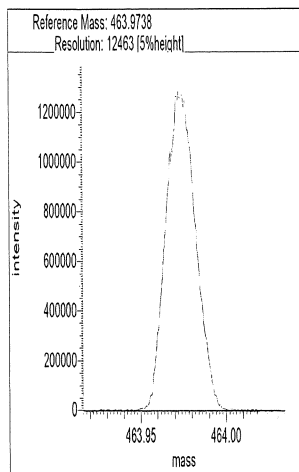
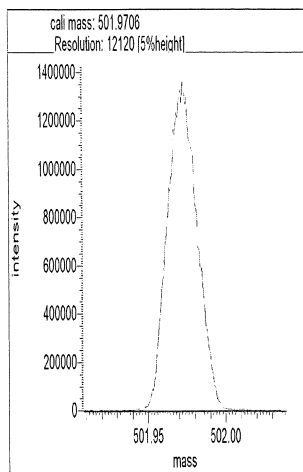
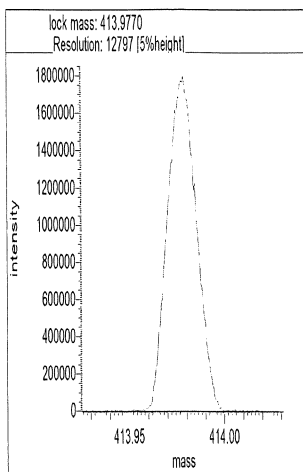


Segment 4

Lock mass 413.9770 [m/z] Resolution: 12797 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 12120 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 12463 [5%height]



Reports

21:19:07: Peak matching procedure started
21:19:08:
21:19:08: Reference mass: 168.98827
21:19:09: Sample mass: 214.0
21:19:09:
21:19:10: Finding reference mass
21:19:11: Finding sample mass
21:19:11:
21:19:17: [1] 213.9897 amu, mean: 213.9897
21:19:21: [2] 213.9893 amu, mean: 213.9895 SD: 0.29 mmu or: 1.36 ppm
21:19:24: [3] 213.9892 amu, mean: 213.9894 SD: 0.27 mmu or: 1.28 ppm
21:19:27: [4] 213.9889 amu, mean: 213.9893 SD: 0.36 mmu or: 1.67 ppm
21:19:28:
21:19:28: Stop requested. Please wait for procedure to finish.
21:19:28:
21:19:30:
21:19:31: Peakmatching stopped

Signature

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Reports

21:19:45: Peak matching procedure started
21:19:46:
21:19:46: Reference mass: 213.98975
21:19:47: Sample mass: 264.0
21:19:47:
21:19:48: Finding reference mass
21:19:49: Finding sample mass
21:19:49:
21:19:55: [1] 263.9860 amu, mean: 263.9860
21:19:59: [2] 263.9861 amu, mean: 263.9861 SD: 0.05 mmu or: 0.18 ppm
21:20:02: [3] 263.9865 amu, mean: 263.9862 SD: 0.28 mmu or: 1.05 ppm
21:20:05: [4] 263.9863 amu, mean: 263.9863 SD: 0.23 mmu or: 0.88 ppm
21:20:06:
21:20:06: Stop requested. Please wait for procedure to finish.
21:20:06:
21:20:08:
21:20:09: Peakmatching stopped

Signature

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Reports

21:20:23: Peak matching procedure started
21:20:23:
21:20:24: Reference mass: 263.98656
21:20:24: Sample mass: 314.0
21:20:25:
21:20:25: Finding reference mass
21:20:26: Finding sample mass
21:20:27:
21:20:32: [1] 313.9827 amu, mean: 313.9827
21:20:36: [2] 313.9827 amu, mean: 313.9827 SD: 0.03 mmu or: 0.10 ppm
21:20:39: [3] 313.9827 amu, mean: 313.9827 SD: 0.04 mmu or: 0.11 ppm
21:20:42: [4] 313.9835 amu, mean: 313.9829 SD: 0.42 mmu or: 1.34 ppm
21:20:43:
21:20:43: Stop requested. Please wait for procedure to finish.
21:20:43:
21:20:45:
21:20:46: Peakmatching stopped

Signature

mar 6/11/24

Reports

21:20:59: Peak matching procedure started
21:21:00:
21:21:00: Reference mass: 313.98336
21:21:01: Sample mass: 376.0
21:21:01:
21:21:02: Finding reference mass
21:21:03: Finding sample mass
21:21:04:
21:21:09: [1] 375.9789 amu, mean: 375.9789
21:21:13: [2] 375.9802 amu, mean: 375.9796 SD: 0.94 mmu or: 2.51 ppm
21:21:16: [3] 375.9798 amu, mean: 375.9797 SD: 0.68 mmu or: 1.82 ppm
21:21:19: [4] 375.9792 amu, mean: 375.9795 SD: 0.61 mmu or: 1.62 ppm
21:21:20:
21:21:20: Stop requested. Please wait for procedure to finish.
21:21:20:
21:21:22: [5] 375.9787 amu, mean: 375.9794 SD: 0.64 mmu or: 1.69 ppm
21:21:24:
21:21:24: Peakmatching stopped

Signature

mar 6/11/24

Reports

21:20:59: Peak matching procedure started
21:21:00:
21:21:00: Reference mass: 313.98336
21:21:01: Sample mass: 376.0
21:21:01:
21:21:02: Finding reference mass
21:21:03: Finding sample mass
21:21:04:
21:21:09: [1] 375.9789 amu, mean: 375.9789
21:21:13: [2] 375.9802 amu, mean: 375.9796 SD: 0.94 mmu or: 2.51 ppm
21:21:16: [3] 375.9798 amu, mean: 375.9797 SD: 0.68 mmu or: 1.82 ppm
21:21:19: [4] 375.9792 amu, mean: 375.9795 SD: 0.61 mmu or: 1.62 ppm
21:21:20:
21:21:20: Stop requested. Please wait for procedure to finish.
21:21:20:
21:21:22: [5] 375.9787 amu, mean: 375.9794 SD: 0.64 mmu or: 1.69 ppm
21:21:24:
21:21:24: Peakmatching stopped


Signature

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Reports

21:21:42: Peak matching procedure started
21:21:43:
21:21:43: Reference mass: 375.98017
21:21:44: Sample mass: 414.0
21:21:44:
21:21:45: Finding reference mass
21:21:46: Finding sample mass
21:21:46:
21:21:52: [1] 413.9763 amu, mean: 413.9763
21:21:56: [2] 413.9778 amu, mean: 413.9771 SD: 1.06 mmu or: 2.55 ppm
21:21:59: [3] 413.9780 amu, mean: 413.9774 SD: 0.92 mmu or: 2.23 ppm
21:22:02: [4] 413.9766 amu, mean: 413.9772 SD: 0.86 mmu or: 2.09 ppm
21:22:02:
21:22:02: Stop requested. Please wait for procedure to finish.
21:22:02:
21:22:05:
21:22:05: Peakmatching stopped


Signature

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Reports

21:22:19: Peak matching procedure started
21:22:20:
21:22:20: Reference mass: 413.97698
21:22:21: Sample mass: 464.0
21:22:21:
21:22:22: Finding reference mass
21:22:23: Finding sample mass
21:22:23:
21:22:29: [1] 463.9733 amu, mean: 463.9733
21:22:32: [2] 463.9737 amu, mean: 463.9735 SD: 0.28 mmu or: 0.60 ppm
21:22:36: [3] 463.9740 amu, mean: 463.9737 SD: 0.35 mmu or: 0.75 ppm
21:22:39: [4] 463.9737 amu, mean: 463.9737 SD: 0.29 mmu or: 0.62 ppm
21:22:39:
21:22:39: Stop requested. Please wait for procedure to finish.
21:22:39:
21:22:42:
21:22:42: Peakmatching stopped

Signature

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Reports

21:22:55: Peak matching procedure started
21:22:55:
21:22:56: Reference mass: 463.97378
21:22:56: Sample mass: 502.0
21:22:57:
21:22:57: Finding reference mass
21:22:58: Finding sample mass
21:22:59:
21:23:04: [1] 501.9703 amu, mean: 501.9703 SD: 0.18 mmu or: 0.37 ppm
21:23:08: [2] 501.9705 amu, mean: 501.9704 SD: 0.29 mmu or: 0.57 ppm
21:23:11: [3] 501.9699 amu, mean: 501.9702 SD: 0.26 mmu or: 0.51 ppm
21:23:14: [4] 501.9700 amu, mean: 501.9702 SD: 0.26 mmu or: 0.51 ppm
21:23:14:
21:23:14: Stop requested. Please wait for procedure to finish.
21:23:14:
21:23:17:
21:23:18: Peakmatching stopped

Signature

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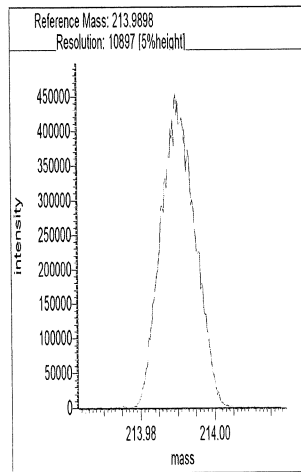
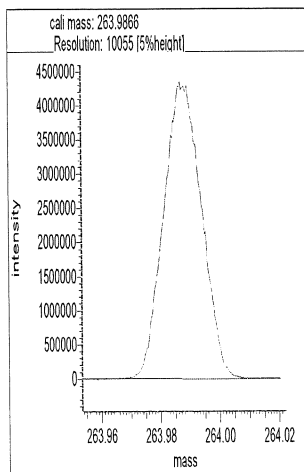
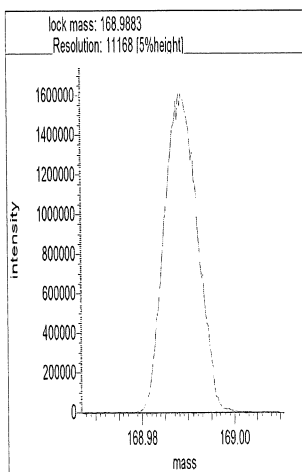
Resolution Check Report (DFS SN: 3190)

Date: 12 Jun 2024 08:41
MID Experiment: ResCheck_1668
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43KnxPCB.lua
Status: RESOLUTION PASSED

Segment 1

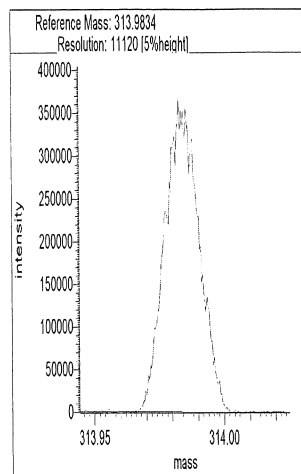
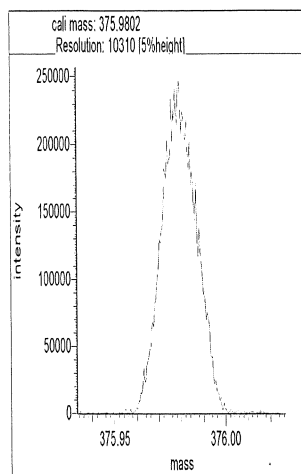
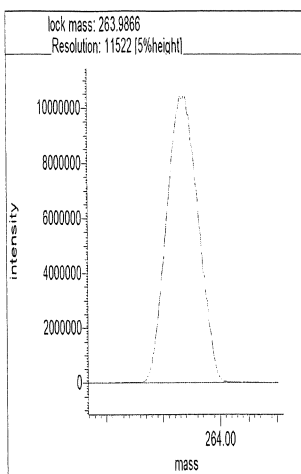
Lock mass 168.9883 [m/z] Resolution: 11168 [5%height]
Cali. mass 263.9866 [m/z] Resolution: 10055 [5%height]
Ref. mass 213.9898 [m/z] Resolution: 10897 [5%height]

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Segment 2

Lock mass 263.9866 [m/z] Resolution: 11522 [5%height]
Cali. mass 375.9802 [m/z] Resolution: 10310 [5%height]
Ref. mass 313.9834 [m/z] Resolution: 11120 [5%height]

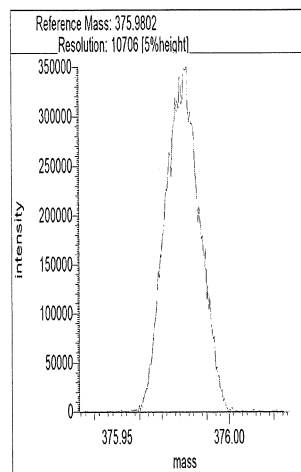
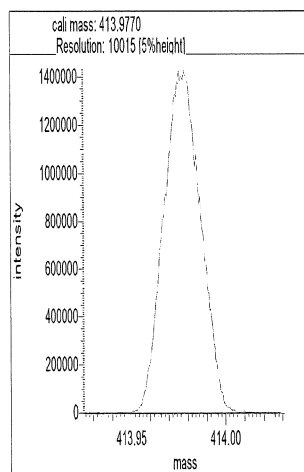
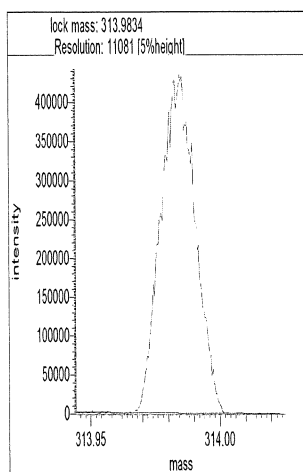


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11081 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 10015 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 10706 [5%height]

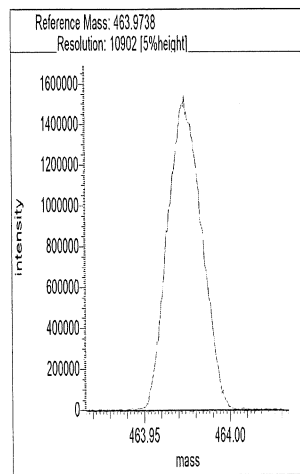
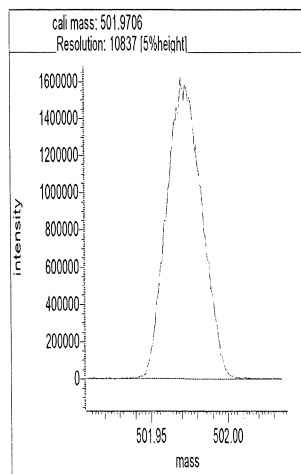
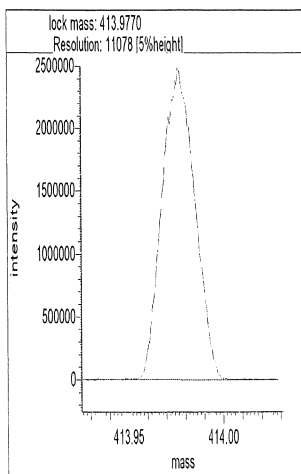


Segment 4

Lock mass 413.9770 [m/z] Resolution: 11078 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 10837 [5%height]

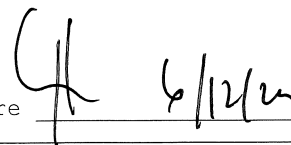
Ref. mass 463.9738 [m/z] Resolution: 10902 [5%height]



Reports

08:50:05: Peak matching procedure started
08:50:06:
08:50:06: Reference mass: 168.98827
08:50:07: Sample mass: 214.0
08:50:07:
08:50:08: Finding reference mass
08:50:09: Finding sample mass
08:50:09:
08:50:15: [1] 213.9894 amu, mean: 213.9894
08:50:18: [2] 213.9893 amu, mean: 213.9893 SD: 0.07 mmu or: 0.33 ppm
08:50:22: [3] 213.9900 amu, mean: 213.9895 SD: 0.38 mmu or: 1.80 ppm
08:50:25: [4] 213.9898 amu, mean: 213.9896 SD: 0.35 mmu or: 1.62 ppm
08:50:25:
08:50:25: Stop requested. Please wait for procedure to finish.
08:50:25:
08:50:28:
08:50:28: Peakmatching stopped

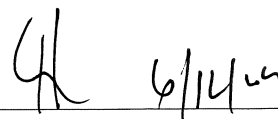
Signature



Reports

08:50:41: Peak matching procedure started
08:50:42: Reference mass: 213.98975
08:50:43: Sample mass: 264.0
08:50:43: Finding reference mass
08:50:45: Finding sample mass
08:50:45: [1] 263.9862 amu, mean: 263.9862 SD: 0.21 mmu or: 0.81 ppm
08:50:54: [2] 263.9865 amu, mean: 263.9863 SD: 0.16 mmu or: 0.61 ppm
08:50:58: [3] 263.9864 amu, mean: 263.9863 SD: 0.14 mmu or: 0.53 ppm
08:51:01: [4] 263.9864 amu, mean: 263.9864 SD: 0.14 mmu or: 0.53 ppm
08:51:01: Stop requested. Please wait for procedure to finish.
08:51:01: Peakmatching stopped

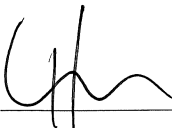
Signature



Reports

08:51:15: Peak matching procedure started
08:51:16:
08:51:16: Reference mass: 263.98656
08:51:17: Sample mass: 314.0
08:51:17:
08:51:18: Finding reference mass
08:51:19: Finding sample mass
08:51:19:
08:51:25: [1] 313.9825 amu, mean: 313.9825
08:51:28: [2] 313.9825 amu, mean: 313.9825 SD: 0.02 mmu or: 0.05 ppm
08:51:31: [3] 313.9830 amu, mean: 313.9827 SD: 0.30 mmu or: 0.97 ppm
08:51:35: [4] 313.9827 amu, mean: 313.9827 SD: 0.25 mmu or: 0.79 ppm
08:51:35:
08:51:35: Stop requested. Please wait for procedure to finish.
08:51:35:
08:51:38:
08:51:38: Peakmatching stopped


Signature

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Reports

08:51:49: Peak matching procedure started
08:51:49:
08:51:50: Reference mass: 313.98336
08:51:50: Sample mass: 376.0
08:51:51:
08:51:51: Finding reference mass
08:51:52: Finding sample mass
08:51:53:
08:51:58: [1] 375.9794 amu, mean: 375.9794
08:52:02: [2] 375.9788 amu, mean: 375.9791 SD: 0.45 mmu or: 1.19 ppm
08:52:05: [3] 375.9793 amu, mean: 375.9792 SD: 0.35 mmu or: 0.93 ppm
08:52:08: [4] 375.9799 amu, mean: 375.9794 SD: 0.45 mmu or: 1.21 ppm
08:52:09:
08:52:09: Stop requested. Please wait for procedure to finish.
08:52:09:
08:52:11:
08:52:12: Peakmatching stopped

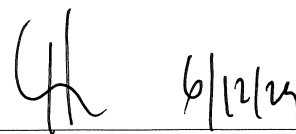
Signature

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Reports

08:51:49: Peak matching procedure started
08:51:49:
08:51:50: Reference mass: 313.98336
08:51:50: Sample mass: 376.0
08:51:51:
08:51:51: Finding reference mass
08:51:52: Finding sample mass
08:51:53:
08:51:58: [1] 375.9794 amu, mean: 375.9794
08:52:02: [2] 375.9788 amu, mean: 375.9791 SD: 0.45 mmu or: 1.19 ppm
08:52:05: [3] 375.9793 amu, mean: 375.9792 SD: 0.35 mmu or: 0.93 ppm
08:52:08: [4] 375.9799 amu, mean: 375.9794 SD: 0.45 mmu or: 1.21 ppm
08:52:09:
08:52:09: Stop requested. Please wait for procedure to finish.
08:52:09:
08:52:11:
08:52:12: Peakmatching stopped

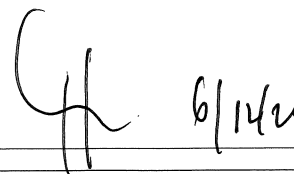
Signature



Reports

08:52:29: Peak matching procedure started
08:52:29:
08:52:29: Reference mass: 375.98017
08:52:30: Sample mass: 414.0
08:52:31:
08:52:31: Finding reference mass
08:52:32: Finding sample mass
08:52:33:
08:52:38: [1] 413.9761 amu, mean: 413.9761
08:52:41: [2] 413.9771 amu, mean: 413.9766 SD: 0.71 mmu or: 1.71 ppm
08:52:45: [3] 413.9772 amu, mean: 413.9768 SD: 0.60 mmu or: 1.46 ppm
08:52:47: [4] 413.9766 amu, mean: 413.9767 SD: 0.50 mmu or: 1.20 ppm
08:52:48:
08:52:48: Stop requested. Please wait for procedure to finish.
08:52:48:
08:52:51:
08:52:51: Peakmatching stopped

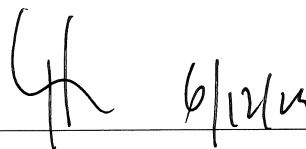
Signature



Reports

08:53:09: Peak matching procedure started
08:53:10:
08:53:10: Reference mass: 413.97698
08:53:11: Sample mass: 464.0
08:53:11:
08:53:12: Finding reference mass
08:53:13: Finding sample mass
08:53:13:
08:53:19: [1] 463.9727 amu, mean: 463.9727
08:53:22: [2] 463.9731 amu, mean: 463.9729 SD: 0.23 mmu or: 0.51 ppm
08:53:25: [3] 463.9737 amu, mean: 463.9732 SD: 0.49 mmu or: 1.06 ppm
08:53:28: [4] 463.9724 amu, mean: 463.9730 SD: 0.57 mmu or: 1.23 ppm
08:53:29:
08:53:29: Stop requested. Please wait for procedure to finish.
08:53:29:
08:53:32:
08:53:32: Peakmatching stopped


Signature



Reports

08:53:44: Peak matching procedure started
08:53:45:
08:53:45: Reference mass: 463.97378
08:53:46: Sample mass: 502.0
08:53:46:
08:53:47: Finding reference mass
08:53:48: Finding sample mass
08:53:48:
08:53:54: [1] 501.9697 amu, mean: 501.9697
08:53:57: [2] 501.9701 amu, mean: 501.9699 SD: 0.31 mmu or: 0.61 ppm
08:54:00: [3] 501.9700 amu, mean: 501.9699 SD: 0.22 mmu or: 0.44 ppm
08:54:04: [4] 501.9698 amu, mean: 501.9699 SD: 0.19 mmu or: 0.38 ppm
08:54:04:
08:54:04: Stop requested. Please wait for procedure to finish.
08:54:04:
08:54:07:
08:54:07: Peakmatching stopped

Signature

 6/12/24

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Lims ID: WDMCCV
Client ID:
Sample Type: WDMCCV
Inject. Date: 11-Jun-2024 21:36:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033034-001
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub2

Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 11-Jun-2024 23:03:49 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1669

First Level Reviewer: Q9DB

Date: 11-Jun-2024 23:03:49

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					149.1	149.1	0.1748	0.1748		
D PCB-1L	11:32	10774876	3.05	1.6108	95.8	95.8	0.2719	0.2719	95.84	
D PCB-3L	13:40	10560396	3.18	1.5891	95.2	95.2	0.2757	0.2757	95.22	
PCB-1	11:33	6524531	3.18	1.2191	49.7	49.7	0.1575	0.1575	99.34	
PCB-2	13:31	6337214	3.18	1.1805	50.3	50.3	0.1776	0.1776	101	
PCB-3	13:41	6333358	3.10	1.2206	49.1	49.1	0.1891	0.1891	98.27	
S Total Dichlorobiphenyls					599.7	599.7	0.0339	0.0339		
D PCB-4L	13:56	4537778	1.63	0.6475	100.4	100.4	0.1404	0.1404	100	
* PCB-9L	15:53	6979205	1.67		100.0	100.0				
\$ PCB-8L	16:43	3410832	1.65	1.2066	47.0	47.0	0.0948	0.0948	94.05	
D PCB-15L	19:46	7484291	1.62	1.0789	99.4	99.4	0.0843	0.0843	99.39	
PCB-4	13:57	2900834	1.57	1.2818	49.9	49.9	0.0407	0.0407	99.74	
PCB-10	14:07	3970919	1.62	1.3149	50.2	50.2	0.0354	0.0354	100	
PCB-9	15:54	4314395	1.58	1.4224	50.5	50.5	0.0328	0.0328	101	
PCB-7	16:04	4151101	1.58	1.4134	48.9	48.9	0.0330	0.0330	97.72	
PCB-6	16:18	4642543	1.62	1.5421	50.1	50.1	0.0302	0.0302	100	
PCB-5	16:36	4077185	1.58	1.3395	50.6	50.6	0.0348	0.0348	101	
PCB-8	16:44	4773116	1.57	1.5889	50.0	50.0	0.0293	0.0293	99.95	
PCB-14	18:20	4238119	1.56	1.4025	50.3	50.3	0.0332	0.0332	101	
PCB-11	19:11	3858729	1.61	1.2951	49.6	49.6	0.0360	0.0360	99.14	
PCB-12	19:29	7977058	1.59	1.3358	99.3	99.3	0.0349	0.0349	99.35	
PCB-13 (C12)	19:29	7977058	1.59	1.3358	99.3	99.3	0.0349	0.0349	99.35	
PCB-15	19:48	4865392	1.61	1.2903	50.4	50.4	0.0326	0.0326	101	
S Total Trichlorobiphenyls					1186.7	1186.7	0.3466	0.3466		
D PCB-19L	17:01	3013304	1.08	0.6285	98.2	98.2	0.4185	0.4185	98.24	
* PCB-32L	20:15	4879956	1.12		100.0	100.0				
* PCB-31L	22:31	10533561	1.06		100.0	100.0				
\$ PCB-28L	22:47	5128600	1.08	1.0494	46.4	46.4	0.1203	0.1203	92.79	
D PCB-37L	26:48	9029899	1.05	0.8749	98.0	98.0	0.1443	0.1443	97.98	
PCB-19	17:02	1937771	1.04	1.2809	50.2	50.2	0.0604	0.0604	100	
PCB-18	18:51	5423660	1.04	1.7652	102.0	102.0	0.0439	0.0439	102	
PCB-30 (C18)	18:51	5423660	1.04	1.7652	102.0	102.0	0.0439	0.0439	102	
PCB-17	19:18	1895890	1.07	1.2430	50.6	50.6	0.0623	0.0623	101	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:31	2783548	1.05	1.8327	50.4	50.4	0.0422	0.0422	101	
PCB-24	19:38	2627694	1.05	1.6777	52.0	52.0	0.0461	0.0461	104	
PCB-16	19:46	1785187	1.07	1.1286	52.5	52.5	0.0686	0.0686	105	
PCB-32	20:16	2826800	1.05	1.8324	51.2	51.2	0.0423	0.0423	102	
PCB-34	21:31	4979146	1.06	1.1277	48.9	48.9	0.5096	0.5096	97.79	
PCB-23	21:41	4773506	1.05	1.0813	48.9	48.9	0.5315	0.5315	97.78	
PCB-26	22:00	9958200	1.05	1.1255	98.0	98.0	0.5106	0.5106	97.99	
PCB-29 (C26)	22:00	9958200	1.05	1.1255	98.0	98.0	0.5106	0.5106	97.99	
PCB-25	22:13	5661181	1.05	1.2728	49.3	49.3	0.4515	0.4515	98.51	
PCB-31	22:31	5122224	1.06	1.1532	49.2	49.2	0.4983	0.4983	98.37	
PCB-20	22:50	10183862	1.03	1.1718	96.2	96.2	0.4904	0.4904	96.24	
PCB-28 (C20)	22:50	10183862	1.03	1.1718	96.2	96.2	0.4904	0.4904	96.24	
PCB-21	23:00	9503184	1.05	1.0746	97.9	97.9	0.5348	0.5348	97.94	M
PCB-33 (C21)	23:00	9503184	1.05	1.0746	97.9	97.9	0.5348	0.5348	97.94	M
PCB-22	23:27	5211383	1.04	1.1932	48.4	48.4	0.4816	0.4816	96.73	
PCB-36	25:00	4891817	1.00	1.1071	48.9	48.9	0.5191	0.5191	97.87	
PCB-39	25:22	5172892	1.06	1.1581	49.5	49.5	0.4962	0.4962	98.93	
PCB-38	25:56	4704602	1.05	1.0843	48.0	48.0	0.5300	0.5300	96.10	
PCB-35	26:24	4862100	1.11	1.1297	47.7	47.7	0.5087	0.5087	95.33	M
PCB-37	26:48	4850122	1.05	1.1435	47.0	47.0	0.5026	0.5026	93.94	
S Total Tetrachlorobiphenyls					2010.6	2010.6	0.4793	0.4793		
D PCB-54L	20:04	2858813	0.83	0.5562	105.3	105.3	0.0248	0.0248	105	
* PCB-52L	24:38	5850908	0.81		100.0	100.0				
\$ PCB-79L	32:32	3620747	0.82	1.0018	49.4	49.4	0.4554	0.4554	98.85	
D PCB-81L	33:31	7059144	0.81	1.2470	96.8	96.8	0.3971	0.3971	96.76	
D PCB-77L	34:06	7565698	0.81	1.3212	97.9	97.9	0.3748	0.3748	97.87	
PCB-54	20:06	1821662	0.79	1.2733	50.0	50.0	0.0271	0.0271	100	
PCB-50	22:16	6141041	0.78	0.8578	97.9	97.9	0.6164	0.6164	97.91	
PCB-53 (C50)	22:16	6141041	0.78	0.8578	97.9	97.9	0.6164	0.6164	97.91	
PCB-45	23:00	6044890	0.78	0.8264	100.0	100.0	0.6398	0.6398	100	M
PCB-51 (C45)	23:00	6044890	0.78	0.8264	100.0	100.0	0.6398	0.6398	100	M
PCB-46	23:14	2536288	0.79	0.7101	48.8	48.8	0.7446	0.7446	97.69	
PCB-52	24:39	3286520	0.78	0.9194	48.9	48.9	0.5751	0.5751	97.77	
PCB-43	24:48	7429934	0.80	1.0333	98.3	98.3	0.5117	0.5117	98.33	M
PCB-73 (C43)	24:48	7429934	0.80	1.0333	98.3	98.3	0.5117	0.5117	98.33	M
PCB-49	25:05	7427604	0.80	1.0685	95.1	95.1	0.4948	0.4948	95.06	
PCB-69 (C49)	25:05	7427604	0.80	1.0685	95.1	95.1	0.4948	0.4948	95.06	
PCB-48	25:25	2973534	0.80	0.8399	48.4	48.4	0.6295	0.6295	96.83	
PCB-44	25:39	10077363	0.79	0.9731	141.6	141.6	0.5434	0.5434	94.41	
PCB-47 (C44)	25:39	10077363	0.79	0.9731	141.6	141.6	0.5434	0.5434	94.41	
PCB-65 (C44)	25:39	10077363	0.79	0.9731	141.6	141.6	0.5434	0.5434	94.41	
PCB-59	25:58	12081902	0.79	1.1853	139.4	139.4	0.4461	0.4461	92.93	
PCB-62 (C59)	25:58	12081902	0.79	1.1853	139.4	139.4	0.4461	0.4461	92.93	
PCB-75 (C59)	25:58	12081902	0.79	1.1853	139.4	139.4	0.4461	0.4461	92.93	
PCB-42	26:10	2903502	0.78	0.8097	49.0	49.0	0.6531	0.6531	98.08	
PCB-40	26:40	9184520	0.79	0.8863	141.7	141.7	0.5966	0.5966	94.47	M
PCB-41 (C40)	26:40	9184520	0.79	0.8863	141.7	141.7	0.5966	0.5966	94.47	M
PCB-71 (C40)	26:40	9184520	0.79	0.8863	141.7	141.7	0.5966	0.5966	94.47	M
PCB-64	26:53	4028377	0.78	1.1776	46.8	46.8	0.4490	0.4490	93.56	
PCB-72	27:43	3912451	0.78	1.0943	48.9	48.9	0.4832	0.4832	97.79	
PCB-68	28:00	4551221	0.81	1.2533	49.7	49.7	0.4219	0.4219	99.32	
PCB-57	28:25	3883090	0.80	1.0818	49.1	49.1	0.4888	0.4888	98.17	
PCB-58	28:40	4803805	0.81	1.3253	49.6	49.6	0.3989	0.3989	99.13	
PCB-67	28:49	4851568	0.79	1.4230	46.6	46.6	0.3716	0.3716	93.25	
PCB-63	29:05	3799295	0.79	1.1240	46.2	46.2	0.4704	0.4704	92.45	
PCB-61	29:26	17278339	0.78	1.2612	187.3	187.3	0.4192	0.4192	93.67	
PCB-70 (C61)	29:26	17278339	0.78	1.2612	187.3	187.3	0.4192	0.4192	93.67	
PCB-74 (C61)	29:26	17278339	0.78	1.2612	187.3	187.3	0.4192	0.4192	93.67	
PCB-76 (C61)	29:26	17278339	0.78	1.2612	187.3	187.3	0.4192	0.4192	93.67	
PCB-66	29:45	4502050	0.80	1.2583	48.9	48.9	0.4202	0.4202	97.86	
PCB-55	29:54	4600168	0.79	1.3236	47.5	47.5	0.3995	0.3995	95.05	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:25	4269749	0.85	1.2334	47.3	47.3	0.4287	0.4287	94.68	
PCB-60	30:37	3848921	0.79	1.1230	46.9	46.9	0.4708	0.4708	93.74	
PCB-80	31:03	4575345	0.81	1.3243	47.2	47.2	0.3993	0.3993	94.50	
PCB-79	32:34	4901091	0.78	1.4368	46.6	46.6	0.3680	0.3680	93.29	
PCB-78	33:07	4045267	0.84	1.1618	47.6	47.6	0.4551	0.4551	95.23	
PCB-81	33:33	3650233	0.79	1.0802	47.9	47.9	0.4968	0.4968	95.74	
PCB-77	34:07	3856145	0.79	1.0836	47.0	47.0	0.4809	0.4809	94.07	
S Total Pentachlorobiphenyls					2220.3	2220.3	0.2941	0.2941		
D PCB-104L	25:34	5423774	1.59	1.2161	104.3	104.3	0.0349	0.0349	104	
\$ PCB-95L	28:32	1872556	1.56	0.7218	47.8	47.8	0.0431	0.0431	95.66	
* PCB-101L	31:28	4277226	1.64		100.0	100.0				
\$ PCB-111L	34:08	2733530	1.59	1.3699	46.7	46.7	0.0310	0.0310	93.30	
D PCB-123L	36:06	6791183	1.59	0.9731	97.9	97.9	1.074	1.074	97.86	
D PCB-118L	36:25	7164998	1.64	1.0102	99.5	99.5	1.034	1.034	99.46	
D PCB-114L	36:57	7035693	1.60	0.9949	99.2	99.2	1.050	1.050	99.17	
D PCB-105L	37:35	6665035	1.61	0.9514	98.2	98.2	1.098	1.098	98.23	
* PCB-127L	39:04	7131377	1.56		100.0	100.0				
D PCB-126L	40:41	6793219	1.59	0.9439	100.9	100.9	1.107	1.107	101	
PCB-104	25:36	2675419	1.56	1.0087	48.9	48.9	0.0515	0.0515	97.80	
PCB-96	25:58	2835183	1.56	1.0940	47.8	47.8	0.0475	0.0475	95.56	
PCB-103	27:54	2317078	1.61	0.8741	48.9	48.9	0.0594	0.0594	97.74	
PCB-94	28:07	1936925	1.65	0.7640	46.7	46.7	0.0680	0.0680	93.48	
PCB-95	28:34	2161175	1.54	0.8033	49.6	49.6	0.0646	0.0646	99.21	
PCB-93	28:47	4303399	1.57	0.8429	94.1	94.1	0.0616	0.0616	94.13	
PCB-100 (C93)	28:47	4303399	1.57	0.8429	94.1	94.1	0.0616	0.0616	94.13	
PCB-98	28:55	4325075	1.51	0.8262	96.5	96.5	0.0629	0.0629	96.52	M
PCB-102 (C98)	28:55	4325075	1.51	0.8262	96.5	96.5	0.0629	0.0629	96.52	M
PCB-88	29:25	4187735	1.63	0.8013	96.4	96.4	0.0648	0.0648	96.36	
PCB-91 (C88)	29:25	4187735	1.63	0.8013	96.4	96.4	0.0648	0.0648	96.36	
PCB-84	29:39	1957453	1.60	0.7299	49.4	49.4	0.0711	0.0711	98.89	
PCB-89	30:07	2005430	1.58	0.7798	47.4	47.4	0.0666	0.0666	94.83	
PCB-121	30:32	3433850	1.58	1.2964	48.8	48.8	0.0401	0.0401	97.67	
PCB-92	30:55	2275383	1.58	0.8546	49.1	49.1	0.0608	0.0608	98.18	
PCB-90	31:29	7497616	1.60	0.9550	144.8	144.8	0.0544	0.0544	96.50	
PCB-101 (C90)	31:29	7497616	1.60	0.9550	144.8	144.8	0.0544	0.0544	96.50	
PCB-113 (C90)	31:29	7497616	1.60	0.9550	144.8	144.8	0.0544	0.0544	96.50	
PCB-83	32:04	4474323	1.57	0.8385	98.4	98.4	0.0619	0.0619	98.38	
PCB-99 (C83)	32:04	4474323	1.57	0.8385	98.4	98.4	0.0619	0.0619	98.38	
PCB-112	32:11	3717849	1.61	1.4111	48.6	48.6	0.0368	0.0368	97.15	
PCB-86	32:33	16035376	1.57	1.0473	282.3	282.3	0.0496	0.0496	94.10	M
PCB-87 (C86)	32:33	16035376	1.57	1.0473	282.3	282.3	0.0496	0.0496	94.10	M
PCB-97 (C86)	32:33	16035376	1.57	1.0473	282.3	282.3	0.0496	0.0496	94.10	M
PCB-109 (C86)	32:33	16035376	1.57	1.0473	282.3	282.3	0.0496	0.0496	94.10	M
PCB-119 (C86)	32:33	16035376	1.57	1.0473	282.3	282.3	0.0496	0.0496	94.10	M
PCB-125 (C86)	32:33	16035376	1.57	1.0473	282.3	282.3	0.0496	0.0496	94.10	M
PCB-85	33:16	8052830	1.57	1.0408	142.7	142.7	0.0499	0.0499	95.10	
PCB-116 (C85)	33:16	8052830	1.57	1.0408	142.7	142.7	0.0499	0.0499	95.10	
PCB-117 (C85)	33:16	8052830	1.57	1.0408	142.7	142.7	0.0499	0.0499	95.10	
PCB-110	33:30	6151320	1.53	1.1919	95.2	95.2	0.0436	0.0436	95.16	
PCB-115 (C110)	33:30	6151320	1.53	1.1919	95.2	95.2	0.0436	0.0436	95.16	
PCB-82	33:47	2187059	1.57	0.8303	48.6	48.6	0.0625	0.0625	97.13	
PCB-111	34:10	3188179	1.56	1.2125	48.5	48.5	0.0428	0.0428	96.96	
PCB-120	34:37	3913481	1.56	1.4762	48.9	48.9	0.0352	0.0352	97.75	
PCB-108	35:46	7385571	1.54	1.1405	94.0	94.0	0.7764	0.7764	93.99	
PCB-124 (C108)	35:46	7385571	1.54	1.1405	94.0	94.0	0.7764	0.7764	93.99	
PCB-107	36:00	4230200	1.57	1.2121	50.7	50.7	0.7306	0.7306	101	
PCB-123	36:07	3419635	1.54	1.0722	47.0	47.0	0.8021	0.8021	93.92	
PCB-106	36:14	3725942	1.56	1.0839	49.9	49.9	0.8170	0.8170	99.78	
PCB-118	36:27	4259957	1.55	1.2055	49.3	49.3	0.7068	0.7068	98.64	
PCB-122	36:47	3252508	1.59	0.9567	49.3	49.3	0.9256	0.9256	98.69	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	36:58	3763042	1.60	1.0842	49.3	49.3	0.7922	0.7922	98.67	
PCB-105	37:37	3850389	1.56	1.1879	48.6	48.6	0.7748	0.7748	97.26	
PCB-127	39:06	3927586	1.58	1.1394	50.0	50.0	0.7772	0.7772	100	
PCB-126	40:42	3777119	1.61	1.0976	50.7	50.7	0.8601	0.8601	101	
S Total Hexachlorobiphenyls					2049.4	2049.4	0.4123	0.4123		
D PCB-155L	31:13	4999984	1.29	1.0851	107.7	107.7	0.0226	0.0226	108	
\$ PCB-153L	38:17	2610866	1.28	0.9169	45.0	45.0	0.6171	0.6171	90.04	
* PCB-138L	39:32	5030480	1.29		100.0	100.0				
D PCB-167L	42:32	6404672	1.27	1.2572	101.3	101.3	0.4727	0.4727	101	
D PCB-156L	43:42	12496784	1.30	1.2106	205.2	205.2	0.4910	0.4910	103	
D PCB-157L (C156L)	43:42	12496784	1.30	1.2106	205.2	205.2	0.4910	0.4910	103	
D PCB-169L	46:55	6396499	1.27	1.2439	102.2	102.2	0.4778	0.4778	102	
PCB-155	31:16	2384458	1.30	0.9444	50.5	50.5	0.001056	0.001056	101	
PCB-152	31:27	2358665	1.26	0.9895	47.7	47.7	0.001007	0.001007	95.35	
PCB-150	31:37	2450537	1.26	1.0132	48.4	48.4	0.000984	0.000984	96.74	
PCB-136	31:59	2577660	1.28	1.0116	51.0	51.0	0.000985	0.000985	102	
PCB-145	32:16	2411124	1.31	0.9685	49.8	49.8	0.001029	0.001029	99.58	
PCB-148	33:48	1882497	1.29	0.7603	49.5	49.5	0.001311	0.001311	99.04	
PCB-135	34:22	3589172	1.23	0.7256	98.9	98.9	0.001374	0.001374	98.93	M
PCB-151 (C135)	34:22	3589172	1.23	0.7256	98.9	98.9	0.001374	0.001374	98.93	M
PCB-154	34:38	2040848	1.30	0.8129	50.2	50.2	0.001226	0.001226	100	
PCB-144	34:57	1914833	1.29	0.7852	48.8	48.8	0.001269	0.001269	97.54	
PCB-147	35:18	5540345	1.23	0.8950	97.9	97.9	0.6058	0.6058	97.88	
PCB-149 (C147)	35:18	5540345	1.23	0.8950	97.9	97.9	0.6058	0.6058	97.88	
PCB-134	35:36	4839434	1.25	0.7967	96.0	96.0	0.6805	0.6805	96.05	
PCB-143 (C134)	35:36	4839434	1.25	0.7967	96.0	96.0	0.6805	0.6805	96.05	
PCB-139	35:54	5392012	1.24	0.8769	97.2	97.2	0.6183	0.6183	97.23	
PCB-140 (C139)	35:54	5392012	1.24	0.8769	97.2	97.2	0.6183	0.6183	97.23	
PCB-131	36:06	2301784	1.27	0.7503	48.5	48.5	0.7226	0.7226	97.02	
PCB-142	36:15	2332995	1.24	0.7507	49.1	49.1	0.7222	0.7222	98.28	
PCB-132	36:34	2283300	1.25	0.7489	48.2	48.2	0.7239	0.7239	96.41	
PCB-133	37:04	2487543	1.25	0.8096	48.6	48.6	0.6697	0.6697	97.17	
PCB-165	37:28	3169375	1.25	1.0247	48.9	48.9	0.5291	0.5291	97.81	
PCB-146	37:43	2986804	1.25	0.9637	49.0	49.0	0.5626	0.5626	98.01	
PCB-161	37:51	3429277	1.25	1.1288	48.0	48.0	0.4803	0.4803	96.07	
PCB-153	38:21	6795765	1.29	1.0938	98.2	98.2	0.4957	0.4957	98.24	
PCB-168 (C153)	38:21	6795765	1.29	1.0938	98.2	98.2	0.4957	0.4957	98.24	
PCB-141	38:31	2663813	1.28	0.8755	48.1	48.1	0.6192	0.6192	96.22	
PCB-130	38:55	2178951	1.26	0.7051	48.9	48.9	0.7689	0.7689	97.72	
PCB-137	39:09	2413866	1.25	0.7767	49.1	49.1	0.6981	0.6981	98.29	
PCB-164	39:16	3254234	1.24	1.0382	49.6	49.6	0.5222	0.5222	99.12	
PCB-129	39:35	11477244	1.24	0.9464	191.8	191.8	0.5729	0.5729	95.88	M
PCB-138 (C129)	39:35	11477244	1.24	0.9464	191.8	191.8	0.5729	0.5729	95.88	M
PCB-160 (C129)	39:35	11477244	1.24	0.9464	191.8	191.8	0.5729	0.5729	95.88	M
PCB-163 (C129)	39:35	11477244	1.24	0.9464	191.8	191.8	0.5729	0.5729	95.88	M
PCB-158	39:57	3928465	1.23	1.3110	47.4	47.4	0.4135	0.4135	94.76	
PCB-128	40:48	6108906	1.25	0.9829	98.3	98.3	0.5516	0.5516	98.27	
PCB-166 (C128)	40:48	6108906	1.25	0.9829	98.3	98.3	0.5516	0.5516	98.27	
PCB-159	41:48	4193298	1.25	1.3856	47.9	47.9	0.3913	0.3913	95.70	
PCB-162	42:05	3853023	1.25	1.2571	48.5	48.5	0.4313	0.4313	96.93	
PCB-167	42:34	3422350	1.25	1.1159	47.9	47.9	0.4020	0.4020	95.77	
PCB-156	43:42	6817004	1.27	1.1104	98.3	98.3	0.6057	0.6057	98.25	
PCB-157 (C156)	43:42	6817004	1.27	1.1104	98.3	98.3	0.6057	0.6057	98.25	
PCB-169	46:57	3674935	1.27	1.1628	49.4	49.4	0.3954	0.3954	98.81	
S Total Heptachlorobiphenyls					1161.4	1161.4	0.0156	0.0156		
D PCB-188L	36:57	5642482	1.05	1.3133	100.1	100.1	0.0343	0.0343	100	
\$ PCB-178L	40:00	2016443	1.08	1.0313	45.6	45.6	0.0436	0.0436	91.13	
* PCB-180L	45:04	4291010	1.07		100.0	100.0				
D PCB-170L	46:20	3668985	1.06	0.8362	102.3	102.3	0.0538	0.0538	102	
D PCB-189L	49:26	7764448	1.05	1.4414	93.3	93.3	0.3088	0.3088	93.34	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-188	36:58	3122665	1.05	1.1350	48.8	48.8	0.006063	0.006063	97.52	
PCB-179	37:19	3139616	1.07	1.4276	47.2	47.2	0.005937	0.005937	94.48	
PCB-184	37:50	3111245	1.06	1.3672	48.9	48.9	0.006199	0.006199	97.76	
PCB-176	38:11	2740735	1.07	1.2331	47.7	47.7	0.006873	0.006873	95.48	
PCB-186	38:39	3378213	1.06	1.4737	49.2	49.2	0.005751	0.005751	98.47	
PCB-178	40:02	2021902	1.04	0.8946	48.5	48.5	0.009474	0.009474	97.09	
PCB-175	40:39	2144505	1.06	0.9524	48.4	48.4	0.008899	0.008899	96.73	
PCB-187	40:55	2497091	1.05	1.1018	48.7	48.7	0.007692	0.007692	97.36	
PCB-182	41:08	2202757	1.06	0.9247	51.2	51.2	0.009165	0.009165	102	
PCB-183	41:32	4173246	1.03	0.9825	91.2	91.2	0.008626	0.008626	91.23	M
PCB-185 (C183)	41:32	4173246	1.03	0.9825	91.2	91.2	0.008626	0.008626	91.23	M
PCB-174	41:46	2249829	1.02	0.9642	50.1	50.1	0.008790	0.008790	100	
PCB-177	42:12	2153850	1.06	0.9773	47.3	47.3	0.008673	0.008673	94.68	
PCB-181	42:36	2136441	1.06	0.9505	48.3	48.3	0.008916	0.008916	96.55	
PCB-171	42:49	3989699	1.05	0.9336	91.8	91.8	0.009078	0.009078	91.78	
PCB-173 (C171)	42:49	3989699	1.05	0.9336	91.8	91.8	0.009078	0.009078	91.78	
PCB-172	44:27	1916276	1.06	0.8519	48.3	48.3	0.0099	0.0099	96.63	
PCB-192	44:44	3158466	1.07	1.3459	50.4	50.4	0.006297	0.006297	101	
PCB-180	45:04	5369452	1.04	1.1676	98.8	98.8	0.007259	0.007259	98.78	
PCB-193 (C180)	45:04	5369452	1.04	1.1676	98.8	98.8	0.007259	0.007259	98.78	
PCB-191	45:27	2968907	1.06	1.2891	49.5	49.5	0.006575	0.006575	98.94	
PCB-170	46:22	2088576	1.09	1.1865	48.0	48.0	0.009298	0.009298	95.95	
PCB-190	46:53	3057622	1.06	1.3322	49.3	49.3	0.006362	0.006362	98.59	
PCB-189	49:28	3725778	1.05	0.9633	49.8	49.8	0.1719	0.1719	99.62	
S Total Octachlorobiphenyls					598.9	598.9	0.1225	0.1225		
D PCB-202L	42:19	4395525	0.88	0.9818	104.3	104.3	0.0353	0.0353	104	
* PCB-194L	51:33	5770770	0.91		100.0	100.0				
D PCB-205L	52:01	6737195	0.90	1.1786	99.1	99.1	0.0541	0.0541	99.06	
PCB-202	42:20	2332249	0.90	1.0359	51.2	51.2	0.0236	0.0236	102	
PCB-201	43:15	2161413	0.90	0.9754	50.4	50.4	0.0251	0.0251	101	
PCB-204	43:55	2320823	0.92	1.0485	50.4	50.4	0.0233	0.0233	101	
PCB-197	44:09	2500851	0.91	1.1458	49.7	49.7	0.0213	0.0213	99.31	
PCB-200	44:16	2216069	0.89	1.0072	50.1	50.1	0.0243	0.0243	100	
PCB-198	47:02	3702923	0.91	0.8698	96.9	96.9	0.0281	0.0281	96.85	
PCB-199 (C198)	47:02	3702923	0.91	0.8698	96.9	96.9	0.0281	0.0281	96.85	
PCB-196	47:43	1773515	0.90	0.7806	51.7	51.7	0.0313	0.0313	103	
PCB-203	47:54	2107787	0.89	0.9292	51.6	51.6	0.0263	0.0263	103	
PCB-195	49:13	2773251	0.91	0.8263	49.8	49.8	0.4386	0.4386	99.63	
PCB-194	51:34	3172329	0.91	0.9735	48.4	48.4	0.3723	0.3723	96.74	
PCB-205	52:02	3583593	0.88	1.0878	48.9	48.9	0.3332	0.3332	97.80	
S Total Nonachlorobiphenyls					140.4	140.4	0.2947	0.2947		
D PCB-208L	48:58	5982649	0.79	0.9576	108.3	108.3	0.2709	0.2709	108	
D PCB-206L	53:46	4464430	0.81	0.6947	111.4	111.4	0.3734	0.3734	111	
PCB-208	49:00	3291400	0.80	1.1374	48.4	48.4	0.2822	0.2822	96.74	
PCB-207	49:55	3335609	0.81	1.3756	46.4	46.4	0.2704	0.2704	92.84	
PCB-206	53:47	2716265	0.80	1.3346	45.6	45.6	0.3314	0.3314	91.18	
D PCB-209L	55:22	4823754	0.71	0.6669	125.3	125.3	0.0622	0.0622	125	
DCB Decachlorobiphenyl	55:24	2608103	0.71	1.1004	49.1	49.1	0.0308	0.0308	98.27	
S Polychlorinated biphenyls, Total					10016	10016	0.2255	0.2255		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61CV1668CS3_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
 Lims ID: WDMCCV
 Client ID:
 Sample Type: WDMCCV
 Inject. Date: 11-Jun-2024 21:36:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033034-001
 Operator ID: Xcalibur_System Instrument ID: D2D
 Sublist: chrom-PCBs_D2D*sub2
 Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 11-Jun-2024 23:03:49 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1669

First Level Reviewer: Q9DB

Date: 11-Jun-2024 23:03:49

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:32	11:32	0	0.727	8114306	3247901	2239	5597	1451		
202.0766	11:32	11:32	0	0.727	2660570	1032038	1311	3277	787	3.05(2.66-3.60)	
PCB-3L											
200.0795	13:40	13:40	0	0.861	8036345	2712796	2239	5597	1212		
202.0766	13:40	13:40	0	0.861	2524051	848309	1311	3277	647	3.18(2.66-3.60)	
PCB-1											
188.0393	11:33	11:33	0	1.001	4961981	1940656	2208	5520	879		
190.0363	11:33	11:33	0	1.001	1562550	611532	1080	2700	566	3.18(2.66-3.60)	
PCB-2											
188.0393	13:31	13:31	0	0.988	4820494	1660729	2208	5520	752		
190.0363	13:31	13:31	0	0.988	1516720	517036	1080	2700	479	3.18(2.66-3.60)	
PCB-3											
188.0393	13:41	13:41	0	1.001	4787070	1609364	2208	5520	729		
190.0363	13:41	13:41	0	1.001	1546288	521140	1080	2700	483	3.10(2.66-3.60)	
PCB-4L											
234.0406	13:56	13:56	0	0.877	2813346	888951	557	1392	1596		
236.0376	13:56	13:56	0	0.877	1724432	547175	180	450	3040	1.63(1.33-1.79)	
PCB-9L											
234.0406	15:53	15:53	0		4361468	1250615	557	1392	2245		
236.0376	15:53	15:53	0		2617737	775381	180	450	4308	1.67(1.33-1.79)	
PCB-8L											
234.0406	16:43	16:43	0	1.199	2121532	572952	557	1392	1029		
236.0376	16:43	16:43	0	1.199	1289300	353201	180	450	1962	1.65(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:46	19:46	0	1.245	4626292	1091568	557	1392	1960		
236.0376	19:46	19:46	0	1.245	2857999	691277	180	450	3840	1.62(1.33-1.79)	
PCB-4											
222.0003	13:57	13:57	0	1.001	1771599	588989	96	240	6135		
223.9974	13:57	13:57	0	1.001	1129235	377497	204	510	1850	1.57(1.33-1.79)	
PCB-10											
222.0003	14:07	14:07	0	1.013	2457221	760653	96	240	7923		
223.9974	14:06	14:07	-1	1.012	1513698	474807	204	510	2327	1.62(1.33-1.79)	
PCB-9											
222.0003	15:54	15:54	0	1.141	2644948	793745	96	240	8268		
223.9974	15:54	15:54	0	1.141	1669447	491249	204	510	2408	1.58(1.33-1.79)	
PCB-7											
222.0003	16:04	16:04	0	1.153	2543551	714870	96	240	7447		
223.9974	16:04	16:04	0	1.153	1607550	450441	204	510	2208	1.58(1.33-1.79)	
PCB-6											
222.0003	16:18	16:18	0	1.170	2869655	811257	96	240	8451		
223.9974	16:18	16:18	0	1.170	1772888	507071	204	510	2486	1.62(1.33-1.79)	
PCB-5											
222.0003	16:36	16:36	0	1.192	2495331	713650	96	240	7434		
223.9974	16:36	16:36	0	1.192	1581854	452798	204	510	2220	1.58(1.33-1.79)	
PCB-8											
222.0003	16:44	16:44	0	1.201	2916213	806447	96	240	8400		
223.9974	16:44	16:44	0	1.201	1856903	513444	204	510	2517	1.57(1.33-1.79)	
PCB-14											
222.0003	18:20	18:20	0	0.927	2581917	666036	96	240	6938		
223.9974	18:20	18:20	0	0.927	1656202	433729	204	510	2126	1.56(1.33-1.79)	
PCB-11											
222.0003	19:11	19:11	0	0.970	2377762	593117	96	240	6178		
223.9974	19:11	19:11	0	0.970	1480967	380502	204	510	1865	1.61(1.33-1.79)	
PCB-12											
222.0003	19:29	19:29	0	0.985	4899705	839733	96	240	8747		
223.9974	19:29	19:29	0	0.985	3077353	524270	204	510	2570	1.59(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:29	19:29	0	0.985	4899705	839733	96	240	8747		
223.9974	19:29	19:29	0	0.985	3077353	524270	204	510	2570	1.59(1.33-1.79)	
PCB-15											
222.0003	19:48	19:48	0	1.001	3000522	696633	96	240	7257		
223.9974	19:48	19:48	0	1.001	1864870	429484	204	510	2105	1.61(1.33-1.79)	
PCB-19L											
268.0016	17:01	17:01	0	0.840	1565522	426994	957	2392	446		
269.9986	17:01	17:01	0	0.840	1447782	406103	281	702	1445	1.08(0.88-1.20)	
PCB-32L											
268.0016	20:15	20:15	0		2579720	609547	957	2392	637		
269.9986	20:15	20:15	0		2300236	567036	281	702	2018	1.12(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:31	22:31	0		5428642	1265623	733	1832	1727		
269.9986	22:31	22:31	0		5104919	1189002	507	1267	2345	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:47	22:47	0	1.013	2658226	601541	733	1832	821		
269.9986	22:47	22:47	0	1.013	2470374	559783	507	1267	1104	1.08(0.88-1.20)	
PCB-37L											
268.0016	26:48	26:48	0	1.190	4625584	923671	733	1832	1260		
269.9986	26:48	26:48	0	1.190	4404315	881949	507	1267	1740	1.05(0.88-1.20)	
PCB-19											
255.9613	17:02	17:02	0	1.002	989728	273277	234	585	1168		
257.9584	17:02	17:02	0	1.002	948043	267618	24	60	11151	1.04(0.88-1.20)	
PCB-18											
255.9613	18:51	18:51	0	1.108	2766070	516667	234	585	2208		
257.9584	18:51	18:51	0	1.108	2657590	490344	24	60	20431	1.04(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:51	18:51	0	1.108	2766070	516667	234	585	2208		
257.9584	18:51	18:51	0	1.108	2657590	490344	24	60	20431	1.04(0.88-1.20)	
PCB-17											
255.9613	19:18	19:18	0	1.135	979300	256023	234	585	1094		
257.9584	19:18	19:18	0	1.135	916590	236931	24	60	9872	1.07(0.88-1.20)	
PCB-27											
255.9613	19:31	19:31	0	1.148	1428339	367438	234	585	1570		
257.9584	19:31	19:31	0	1.148	1355209	348336	24	60	14514	1.05(0.88-1.20)	
PCB-24											
255.9613	19:38	19:38	0	1.155	1344210	337130	234	585	1441		
257.9584	19:38	19:38	0	1.155	1283484	326417	24	60	13601	1.05(0.88-1.20)	
PCB-16											
255.9613	19:46	19:46	0	1.162	920896	231899	234	585	991		
257.9584	19:46	19:46	0	1.162	864291	217540	24	60	9064	1.07(0.88-1.20)	
PCB-32											
255.9613	20:16	20:16	0	1.192	1450774	369596	234	585	1579		
257.9584	20:16	20:16	0	1.192	1376026	337720	24	60	14072	1.05(0.88-1.20)	
PCB-34											
255.9613	21:31	21:31	0	1.265	2557645	613224	1916	4790	320		
257.9584	21:31	21:31	0	1.265	2421501	583100	2235	5587	261	1.06(0.88-1.20)	
PCB-23											
255.9613	21:41	21:41	0	1.274	2445676	572871	1916	4790	299		
257.9584	21:40	21:41	-1	1.274	2327830	553221	2235	5587	248	1.05(0.88-1.20)	
PCB-26											
255.9613	22:00	22:00	0	1.293	5109825	1088297	1916	4790	568		
257.9584	22:00	22:00	0	1.293	4848375	1040515	2235	5587	466	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:00	22:00	0	1.293	5109825	1088297	1916	4790	568		
257.9584	22:00	22:00	0	1.293	4848375	1040515	2235	5587	466	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:13	22:13	0	0.829	2901853	645717	1916	4790	337		
257.9584	22:13	22:13	0	0.829	2759328	621132	2235	5587	278	1.05(0.88-1.20)	
PCB-31											
255.9613	22:31	22:31	0	0.840	2636363	609979	1916	4790	318		
257.9584	22:31	22:31	0	0.840	2485861	574944	2235	5587	257	1.06(0.88-1.20)	
PCB-20											
255.9613	22:50	22:50	0	0.852	5168289	948476	1916	4790	495		
257.9584	22:50	22:50	0	0.852	5015573	920674	2235	5587	412	1.03(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:50	22:50	0	0.852	5168289	948476	1916	4790	495		
257.9584	22:50	22:50	0	0.852	5015573	920674	2235	5587	412	1.03(0.88-1.20)	
PCB-21											
255.9613	23:00	23:00	0	0.858	4872676	588850	1916	4790	307		M
257.9584	23:04	23:00	4	0.861	4630508	546953	2235	5587	245	1.05(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:00	23:00	0	0.858	4872676	588850	1916	4790	307		M
257.9584	23:04	23:00	4	0.861	4630508	546953	2235	5587	245	1.05(0.88-1.20)	M
PCB-22											
255.9613	23:27	23:27	0	0.875	2650523	607003	1916	4790	317		
257.9584	23:27	23:27	0	0.875	2560860	572667	2235	5587	256	1.04(0.88-1.20)	
PCB-36											
255.9613	25:00	25:00	0	0.933	2449113	510453	1916	4790	266		
257.9584	25:00	25:00	0	0.933	2442704	480007	2235	5587	215	1.00(0.88-1.20)	
PCB-39											
255.9613	25:22	25:22	0	0.947	2658113	568822	1916	4790	297		
257.9584	25:22	25:22	0	0.947	2514779	543570	2235	5587	243	1.06(0.88-1.20)	
PCB-38											
255.9613	25:56	25:56	0	0.968	2408866	505168	1916	4790	264		
257.9584	25:56	25:56	0	0.968	2295736	476318	2235	5587	213	1.05(0.88-1.20)	
PCB-35											
255.9613	26:24	26:24	0	0.985	2561842	516062	1916	4790	269		M
257.9584	26:25	26:24	1	0.986	2300258	480251	2235	5587	215	1.11(0.88-1.20)	M
PCB-37											
255.9613	26:48	26:48	0	1.000	2488365	486066	1916	4790	254		
257.9584	26:48	26:48	0	1.000	2361757	493056	2235	5587	221	1.05(0.88-1.20)	
PCB-54L											
301.9626	20:04	20:04	0	0.815	1298395	324281	64	160	5067		
303.9597	20:04	20:04	0	0.815	1560418	386433	1	2	386433	0.83(0.65-0.89)	
PCB-52L											
301.9626	24:38	24:38	0		2617065	582089	1318	3295	442		
303.9597	24:38	24:38	0		3233843	716840	1255	3137	571	0.81(0.65-0.89)	
PCB-79L											
301.9626	32:32	32:32	0	0.971	1632578	326104	1318	3295	247		
303.9597	32:32	32:32	0	0.971	1988169	400679	1255	3137	319	0.82(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:31	33:31	0	1.361	3154680	618250	1318	3295	469		
303.9597	33:31	33:31	0	1.361	3904464	770916	1255	3137	614	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:06	34:06	0	1.384	3389958	631678	1318	3295	479		
303.9597	34:05	34:06	-1	1.384	4175740	799037	1255	3137	637	0.81(0.65-0.89)	
PCB-54											
289.9224	20:06	20:06	0	1.000	801571	201304	11	27	18300		
291.9194	20:06	20:06	0	1.000	1020091	262188	87	217	3014	0.79(0.65-0.89)	
PCB-50											
289.9224	22:16	22:16	0	1.109	2685939	583797	1413	3532	413		
291.9194	22:16	22:16	0	1.109	3455102	737201	1569	3922	470	0.78(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:16	22:16	0	1.109	2685939	583797	1413	3532	413		
291.9194	22:16	22:16	0	1.109	3455102	737201	1569	3922	470	0.78(0.65-0.89)	
PCB-45											
289.9224	23:00	23:00	0	1.146	2640154	334581	1413	3532	237		M
291.9194	23:00	23:00	0	1.146	3404736	428566	1569	3922	273	0.78(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:00	23:00	0	1.146	2640154	334581	1413	3532	237		M
291.9194	23:00	23:00	0	1.146	3404736	428566	1569	3922	273	0.78(0.65-0.89)	M
PCB-46											
289.9224	23:14	23:14	0	1.158	1119378	264609	1413	3532	187		
291.9194	23:14	23:14	0	1.158	1416910	331673	1569	3922	211	0.79(0.65-0.89)	
PCB-52											
289.9224	24:39	24:39	0	1.228	1442214	332640	1413	3532	235		
291.9194	24:39	24:39	1	1.228	1844306	411095	1569	3922	262	0.78(0.65-0.89)	
PCB-43											
289.9224	24:48	24:48	0	1.235	3292147	440544	1413	3532	312		M
291.9194	24:48	24:48	0	1.235	4137787	565499	1569	3922	360	0.80(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:48	24:48	0	1.235	3292147	440544	1413	3532	312		M
291.9194	24:48	24:48	0	1.235	4137787	565499	1569	3922	360	0.80(0.65-0.89)	M
PCB-49											
289.9224	25:05	25:05	0	1.249	3298355	481458	1413	3532	341		
291.9194	25:05	25:05	0	1.249	4129249	615388	1569	3922	392	0.80(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:05	25:05	0	1.249	3298355	481458	1413	3532	341		
291.9194	25:05	25:05	0	1.249	4129249	615388	1569	3922	392	0.80(0.65-0.89)	
PCB-48											
289.9224	25:25	25:25	0	1.266	1319076	288486	1413	3532	204		
291.9194	25:25	25:25	0	1.266	1654458	373260	1569	3922	238	0.80(0.65-0.89)	
PCB-44											
289.9224	25:39	25:39	0	1.278	4450273	825693	1413	3532	584		
291.9194	25:39	25:39	0	1.278	5627090	1032775	1569	3922	658	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:39	25:39	0	1.278	4450273	825693	1413	3532	584		
291.9194	25:39	25:39	0	1.278	5627090	1032775	1569	3922	658	0.79(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:39	25:39	0	1.278	4450273	825693	1413	3532	584		
291.9194	25:39	25:39	0	1.278	5627090	1032775	1569	3922	658	0.79(0.65-0.89)	
PCB-59											
289.9224	25:58	25:58	0	1.293	5350864	769231	1413	3532	544		
291.9194	25:58	25:58	0	1.293	6731038	954414	1569	3922	608	0.79(0.65-0.89)	
PCB-62 (C59)											
289.9224	25:58	25:58	0	1.293	5350864	769231	1413	3532	544		
291.9194	25:58	25:58	0	1.293	6731038	954414	1569	3922	608	0.79(0.65-0.89)	
PCB-75 (C59)											
289.9224	25:58	25:58	0	1.293	5350864	769231	1413	3532	544		
291.9194	25:58	25:58	0	1.293	6731038	954414	1569	3922	608	0.79(0.65-0.89)	
PCB-42											
289.9224	26:10	26:10	0	1.304	1268561	277408	1413	3532	196		
291.9194	26:10	26:10	0	1.304	1634941	357092	1569	3922	228	0.78(0.65-0.89)	
PCB-40											
289.9224	26:40	26:40	0	1.329	4056147	610626	1413	3532	432		M
291.9194	26:40	26:40	0	1.329	5128373	780416	1569	3922	497	0.79(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:40	26:40	0	1.329	4056147	610626	1413	3532	432		M
291.9194	26:40	26:40	0	1.329	5128373	780416	1569	3922	497	0.79(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:40	26:40	0	1.329	4056147	610626	1413	3532	432		M
291.9194	26:40	26:40	0	1.329	5128373	780416	1569	3922	497	0.79(0.65-0.89)	M
PCB-64											
289.9224	26:53	26:53	0	1.339	1765836	375431	1413	3532	266		
291.9194	26:52	26:53	-1	1.339	2262541	476000	1569	3922	303	0.78(0.65-0.89)	
PCB-72											
289.9224	27:43	27:43	0	0.827	1718071	369974	1413	3532	262		
291.9194	27:43	27:43	0	0.827	2194380	480878	1569	3922	306	0.78(0.65-0.89)	
PCB-68											
289.9224	28:00	28:00	0	0.835	2032040	413343	1413	3532	293		
291.9194	28:00	28:00	0	0.835	2519181	510569	1569	3922	325	0.81(0.65-0.89)	
PCB-57											
289.9224	28:25	28:25	0	0.848	1721684	369406	1413	3532	261		
291.9194	28:25	28:25	0	0.848	2161406	461961	1569	3922	294	0.80(0.65-0.89)	
PCB-58											
289.9224	28:40	28:40	0	0.855	2148253	444444	1413	3532	315		
291.9194	28:40	28:40	0	0.855	2655552	544472	1569	3922	347	0.81(0.65-0.89)	
PCB-67											
289.9224	28:49	28:49	0	0.860	2135078	408780	1413	3532	289		
291.9194	28:49	28:49	0	0.860	2716490	528691	1569	3922	337	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:05	29:05	0	0.868	1671710	344122	1413	3532	244		
291.9194	29:05	29:05	0	0.868	2127585	448680	1569	3922	286	0.79(0.65-0.89)	
PCB-61											
289.9224	29:26	29:26	0	0.878	7560684	873178	1413	3532	618		
291.9194	29:26	29:26	0	0.878	9717655	1126780	1569	3922	718	0.78(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:26	29:26	0	0.878	7560684	873178	1413	3532	618		
291.9194	29:26	29:26	0	0.878	9717655	1126780	1569	3922	718	0.78(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:26	29:26	0	0.878	7560684	873178	1413	3532	618		
291.9194	29:26	29:26	0	0.878	9717655	1126780	1569	3922	718	0.78(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:26	29:26	0	0.878	7560684	873178	1413	3532	618		
291.9194	29:26	29:26	0	0.878	9717655	1126780	1569	3922	718	0.78(0.65-0.89)	
PCB-66											
289.9224	29:45	29:45	0	0.887	1996042	397035	1413	3532	281		
291.9194	29:45	29:45	0	0.887	2506008	490608	1569	3922	313	0.80(0.65-0.89)	
PCB-55											
289.9224	29:54	29:54	0	0.892	2035316	426599	1413	3532	302		
291.9194	29:54	29:54	0	0.892	2564852	533138	1569	3922	340	0.79(0.65-0.89)	
PCB-56											
289.9224	30:25	30:25	0	0.907	1958083	400137	1413	3532	283		
291.9194	30:25	30:25	0	0.907	2311666	486246	1569	3922	310	0.85(0.65-0.89)	
PCB-60											
289.9224	30:37	30:37	0	0.913	1695680	335138	1413	3532	237		
291.9194	30:37	30:37	0	0.913	2153241	426908	1569	3922	272	0.79(0.65-0.89)	
PCB-80											
289.9224	31:03	31:03	0	0.926	2046085	409148	1413	3532	290		
291.9194	31:03	31:03	0	0.926	2529260	508542	1569	3922	324	0.81(0.65-0.89)	
PCB-79											
289.9224	32:34	32:34	0	0.971	2151228	396665	1413	3532	281		
291.9194	32:33	32:34	-1	0.971	2749863	510517	1569	3922	325	0.78(0.65-0.89)	
PCB-78											
289.9224	33:07	33:07	0	0.988	1848498	330368	1413	3532	234		
291.9194	33:07	33:07	0	0.988	2196769	434406	1569	3922	277	0.84(0.65-0.89)	
PCB-81											
289.9224	33:33	33:33	0	1.001	1612453	315246	1413	3532	223		
291.9194	33:33	33:33	0	1.001	2037780	386710	1569	3922	246	0.79(0.65-0.89)	
PCB-77											
289.9224	34:07	34:07	0	1.000	1706237	327223	1413	3532	232		
291.9194	34:07	34:07	0	1.000	2149908	400588	1569	3922	255	0.79(0.65-0.89)	
PCB-104L											
337.9207	25:34	25:34	0	0.813	3332303	717836	117	292	6135		
339.9178	25:34	25:34	0	0.813	2091471	460677	30	75	15356	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:32	28:32	0	1.116	1141628	240555	117	292	2056		
339.9178	28:32	28:32	0	1.116	730928	157066	30	75	5236	1.56(1.32-1.78)	
PCB-101L											
337.9207	31:28	31:28	0		2655862	529924	117	292	4529		
339.9178	31:28	31:28	0		1621364	334271	30	75	11142	1.64(1.32-1.78)	
PCB-111L											
337.9207	34:08	34:08	0	1.085	1679283	331501	117	292	2833		
339.9178	34:08	34:08	0	1.085	1054247	210264	30	75	7009	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:06	36:06	0	1.147	4169742	837579	3493	8732	240		
339.9178	36:06	36:06	0	1.147	2621441	529726	2274	5685	233	1.59(1.32-1.78)	
PCB-118L											
337.9207	36:25	36:25	0	1.158	4451866	844470	3493	8732	242		
339.9178	36:25	36:25	0	1.158	2713132	535625	2274	5685	236	1.64(1.32-1.78)	
PCB-114L											
337.9207	36:57	36:57	0	1.174	4330893	841770	3493	8732	241		
339.9178	36:57	36:57	0	1.174	2704800	527420	2274	5685	232	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:35	37:35	0	1.195	4112932	786206	3493	8732	225		
339.9178	37:35	37:35	0	1.195	2552103	491582	2274	5685	216	1.61(1.32-1.78)	
PCB-127L											
337.9207	39:04	39:04	0		4346575	839898	3493	8732	240		
339.9178	39:04	39:04	0		2784802	540029	2274	5685	237	1.56(1.32-1.78)	
PCB-126L											
337.9207	40:41	40:41	0	1.293	4167110	767235	3493	8732	220		
339.9178	40:41	40:41	0	1.293	2626109	478473	2274	5685	210	1.59(1.32-1.78)	
PCB-104											
325.8804	25:36	25:36	0	1.001	1630736	351408	180	450	1952		
327.8775	25:36	25:36	0	1.001	1044683	223809	65	162	3443	1.56(1.32-1.78)	
PCB-96											
325.8804	25:58	25:58	0	1.016	1725776	375205	180	450	2084		
327.8775	25:58	25:58	0	1.016	1109407	239338	65	162	3682	1.56(1.32-1.78)	
PCB-103											
325.8804	27:54	27:54	0	1.091	1427836	295629	180	450	1642		
327.8775	27:54	27:54	0	1.091	889242	185375	65	162	2852	1.61(1.32-1.78)	
PCB-94											
325.8804	28:07	28:07	0	1.100	1204969	245286	180	450	1363		
327.8775	28:07	28:07	-1	1.100	731956	148004	65	162	2277	1.65(1.32-1.78)	
PCB-95											
325.8804	28:34	28:34	0	1.117	1311635	274191	180	450	1523		
327.8775	28:34	28:34	0	1.117	849540	175623	65	162	2702	1.54(1.32-1.78)	
PCB-93											
325.8804	28:47	28:47	0	1.126	2631692	515157	180	450	2862		
327.8775	28:47	28:47	0	1.126	1671707	325601	65	162	5009	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:47	28:47	0	1.126	2631692	515157	180	450	2862		
327.8775	28:47	28:47	0	1.126	1671707	325601	65	162	5009	1.57(1.32-1.78)	
PCB-98											
325.8804	28:55	28:55	0	1.131	2603207	329900	180	450	1833		M
327.8775	28:56	28:55	1	1.132	1721868	209545	65	162	3224	1.51(1.32-1.78)	M
PCB-102 (C98)											
325.8804	28:55	28:55	0	1.131	2603207	329900	180	450	1833		M
327.8775	28:56	28:55	1	1.132	1721868	209545	65	162	3224	1.51(1.32-1.78)	M
PCB-88											
325.8804	29:25	29:25	0	1.151	2592494	274934	180	450	1527		
327.8775	29:25	29:25	0	1.151	1595241	177464	65	162	2730	1.63(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:25	29:25	0	1.151	2592494	274934	180	450	1527		
327.8775	29:25	29:25	0	1.151	1595241	177464	65	162	2730	1.63(1.32-1.78)	
PCB-84											
325.8804	29:39	29:39	0	1.160	1205932	242923	180	450	1350		
327.8775	29:39	29:39	0	1.160	751521	150735	65	162	2319	1.60(1.32-1.78)	
PCB-89											
325.8804	30:07	30:07	0	1.178	1228952	250075	180	450	1389		
327.8775	30:07	30:07	0	1.178	776478	156987	65	162	2415	1.58(1.32-1.78)	
PCB-121											
325.8804	30:32	30:32	0	1.194	2101299	434607	180	450	2414		
327.8775	30:32	30:32	0	1.194	1332551	277371	65	162	4267	1.58(1.32-1.78)	
PCB-92											
325.8804	30:55	30:55	0	0.856	1394008	273270	180	450	1518		
327.8775	30:55	30:55	0	0.856	881375	171533	65	162	2639	1.58(1.32-1.78)	
PCB-90											
325.8804	31:29	31:29	0	1.231	4619192	664282	180	450	3690		
327.8775	31:29	31:29	0	1.231	2878424	412727	65	162	6350	1.60(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:29	31:29	0	1.231	4619192	664282	180	450	3690		
327.8775	31:29	31:29	0	1.231	2878424	412727	65	162	6350	1.60(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:29	31:29	0	1.231	4619192	664282	180	450	3690		
327.8775	31:29	31:29	0	1.231	2878424	412727	65	162	6350	1.60(1.32-1.78)	
PCB-83											
325.8804	32:04	32:04	0	1.254	2733035	348792	180	450	1938		
327.8775	32:04	32:04	0	1.254	1741288	225721	65	162	3473	1.57(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:04	32:04	0	1.254	2733035	348792	180	450	1938		
327.8775	32:04	32:04	0	1.254	1741288	225721	65	162	3473	1.57(1.32-1.78)	
PCB-112											
325.8804	32:11	32:11	0	1.259	2291597	444312	180	450	2468		
327.8775	32:11	32:11	0	1.259	1426252	275714	65	162	4242	1.61(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:33	32:33	0	1.273	9788706	1033773	180	450	5743		M
327.8775	32:33	32:33	0	1.273	6246670	654753	65	162	10073	1.57(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:33	32:33	0	1.273	9788706	1033773	180	450	5743		M
327.8775	32:33	32:33	0	1.273	6246670	654753	65	162	10073	1.57(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:33	32:33	0	1.273	9788706	1033773	180	450	5743		M
327.8775	32:33	32:33	0	1.273	6246670	654753	65	162	10073	1.57(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:33	32:33	0	1.273	9788706	1033773	180	450	5743		M
327.8775	32:33	32:33	0	1.273	6246670	654753	65	162	10073	1.57(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:33	32:33	0	1.273	9788706	1033773	180	450	5743		M
327.8775	32:33	32:33	0	1.273	6246670	654753	65	162	10073	1.57(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:33	32:33	0	1.273	9788706	1033773	180	450	5743		M
327.8775	32:33	32:33	0	1.273	6246670	654753	65	162	10073	1.57(1.32-1.78)	M
PCB-85											
325.8804	33:16	33:16	0	1.301	4921287	580352	180	450	3224		
327.8775	33:17	33:16	1	1.302	3131543	373532	65	162	5747	1.57(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:16	33:16	0	1.301	4921287	580352	180	450	3224		
327.8775	33:17	33:16	1	1.302	3131543	373532	65	162	5747	1.57(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:16	33:16	0	1.301	4921287	580352	180	450	3224		
327.8775	33:17	33:16	1	1.302	3131543	373532	65	162	5747	1.57(1.32-1.78)	
PCB-110											
325.8804	33:30	33:30	0	1.310	3721961	460289	180	450	2557		
327.8775	33:28	33:30	-2	1.309	2429359	305201	65	162	4695	1.53(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:30	33:30	0	1.310	3721961	460289	180	450	2557		
327.8775	33:28	33:30	-2	1.309	2429359	305201	65	162	4695	1.53(1.32-1.78)	
PCB-82											
325.8804	33:47	33:47	0	1.321	1334935	261865	180	450	1455		
327.8775	33:47	33:47	0	1.321	852124	164414	65	162	2529	1.57(1.32-1.78)	
PCB-111											
325.8804	34:10	34:10	0	1.336	1940804	381884	180	450	2122		
327.8775	34:10	34:10	0	1.336	1247375	241725	65	162	3719	1.56(1.32-1.78)	
PCB-120											
325.8804	34:37	34:37	0	1.354	2387277	469707	180	450	2609		
327.8775	34:37	34:37	0	1.354	1526204	292595	65	162	4501	1.56(1.32-1.78)	
PCB-108											
325.8804	35:46	35:46	0	1.399	4477608	858126	3161	7902	271		
327.8775	35:46	35:46	0	1.399	2907963	569647	1543	3857	369	1.54(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:46	35:46	0	1.399	4477608	858126	3161	7902	271		
327.8775	35:46	35:46	0	1.399	2907963	569647	1543	3857	369	1.54(1.32-1.78)	
PCB-107											
325.8804	36:00	36:00	0	1.408	2582999	464483	3161	7902	147		
327.8775	36:00	36:00	0	1.408	1647201	291814	1543	3857	189	1.57(1.32-1.78)	
PCB-123											
325.8804	36:07	36:07	0	1.001	2075370	435510	3161	7902	138		
327.8775	36:07	36:07	0	1.001	1344265	284265	1543	3857	184	1.54(1.32-1.78)	
PCB-106											
325.8804	36:14	36:14	0	1.004	2271916	442594	3161	7902	140		
327.8775	36:14	36:14	0	1.004	1454026	280057	1543	3857	182	1.56(1.32-1.78)	
PCB-118											
325.8804	36:27	36:27	0	1.001	2586872	472136	3161	7902	149		
327.8775	36:27	36:27	0	1.001	1673085	316430	1543	3857	205	1.55(1.32-1.78)	
PCB-122											
325.8804	36:47	36:47	0	1.010	1999033	399977	3161	7902	127		
327.8775	36:47	36:47	0	1.010	1253475	245240	1543	3857	159	1.59(1.32-1.78)	
PCB-114											
325.8804	36:58	36:58	0	1.001	2314885	411777	3161	7902	130		
327.8775	36:58	36:58	-1	1.000	1448157	258180	1543	3857	167	1.60(1.32-1.78)	
PCB-105											
325.8804	37:37	37:37	0	1.001	2347144	426216	3161	7902	135		
327.8775	37:37	37:37	0	1.001	1503245	278004	1543	3857	180	1.56(1.32-1.78)	
PCB-127											
325.8804	39:06	39:06	0	1.040	2405147	450310	3161	7902	142		
327.8775	39:06	39:06	0	1.040	1522439	284513	1543	3857	184	1.58(1.32-1.78)	
PCB-126											
325.8804	40:42	40:42	0	1.000	2330835	385652	3161	7902	122		
327.8775	40:42	40:42	0	1.000	1446284	247472	1543	3857	160	1.61(1.32-1.78)	
PCB-155L											
371.8817	31:13	31:13	0	0.790	2814045	569277	36	90	15813		
373.8788	31:14	31:13	1	0.790	2185939	433900	49	122	8855	1.29(1.05-1.43)	
PCB-153L											
371.8817	38:17	38:17	0	0.900	1467477	284165	2144	5360	133		
373.8788	38:17	38:17	0	0.900	1143389	222149	146	365	1522	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:32	39:32	0		2836116	543872	2144	5360	254		
373.8788	39:32	39:32	0		2194364	419348	146	365	2872	1.29(1.05-1.43)	
PCB-167L											
371.8817	42:32	42:32	0	1.076	3583708	677063	2144	5360	316		
373.8788	42:32	42:32	0	1.076	2820964	545600	146	365	3737	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:42	43:42	0	1.105	7052257	918709	2144	5360	429		
373.8788	43:41	43:42	-1	1.105	5444527	712429	146	365	4880	1.30(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-157L (C156L)											
371.8817	43:42	43:42	0	1.105	7052257	918709	2144	5360	429		
373.8788	43:41	43:42	-1	1.105	5444527	712429	146	365	4880	1.30(1.05-1.43)	
PCB-169L											
371.8817	46:55	46:55	0	1.187	3580227	669540	2144	5360	312		
373.8788	46:55	46:55	0	1.187	2816272	523471	146	365	3585	1.27(1.05-1.43)	
PCB-155											
359.8415	31:16	31:16	0	1.001	1347478	275200	3	7	91733		
361.8385	31:15	31:16	-1	1.001	1036980	209423	1	2	209423	1.30(1.05-1.43)	
PCB-152											
359.8415	31:27	31:27	0	1.007	1314506	273264	3	7	91088		
361.8385	31:27	31:27	0	1.007	1044159	214784	1	2	214784	1.26(1.05-1.43)	
PCB-150											
359.8415	31:37	31:37	0	1.013	1366394	276530	3	7	92177		
361.8385	31:37	31:37	0	1.013	1084143	219082	1	2	219082	1.26(1.05-1.43)	
PCB-136											
359.8415	31:59	31:59	0	1.025	1448253	290786	3	7	96929		
361.8385	31:59	31:59	0	1.025	1129407	222075	1	2	222075	1.28(1.05-1.43)	
PCB-145											
359.8415	32:16	32:16	0	1.034	1366633	271375	3	7	90458		
361.8385	32:16	32:16	0	1.034	1044491	201716	1	2	201716	1.31(1.05-1.43)	
PCB-148											
359.8415	33:48	33:48	0	1.082	1059328	206630	3	7	68877		
361.8385	33:48	33:48	0	1.082	823169	161163	1	2	161163	1.29(1.05-1.43)	
PCB-135											
359.8415	34:22	34:22	0	1.101	1982354	225453	3	7	75151		M
361.8385	34:22	34:22	0	1.101	1606818	181008	1	2	181008	1.23(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:22	34:22	0	1.101	1982354	225453	3	7	75151		M
361.8385	34:22	34:22	0	1.101	1606818	181008	1	2	181008	1.23(1.05-1.43)	M
PCB-154											
359.8415	34:38	34:38	0	1.109	1153176	223463	3	7	74488		
361.8385	34:38	34:38	0	1.109	887672	175527	1	2	175527	1.30(1.05-1.43)	
PCB-144											
359.8415	34:57	34:57	0	1.119	1077239	213414	3	7	71138		
361.8385	34:57	34:57	0	1.119	837594	167847	1	2	167847	1.29(1.05-1.43)	
PCB-147											
359.8415	35:18	35:18	0	1.131	3057316	590590	1351	3377	437		
361.8385	35:18	35:18	0	1.131	2483029	478718	843	2107	568	1.23(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:18	35:18	0	1.131	3057316	590590	1351	3377	437		
361.8385	35:18	35:18	0	1.131	2483029	478718	843	2107	568	1.23(1.05-1.43)	
PCB-134											
359.8415	35:36	35:36	0	1.140	2688391	281644	1351	3377	208		
361.8385	35:36	35:36	0	1.140	2151043	217066	843	2107	257	1.25(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-143 (C134)											
359.8415	35:36	35:36	0	1.140	2688391	281644	1351	3377	208		
361.8385	35:36	35:36	0	1.140	2151043	217066	843	2107	257	1.25(1.05-1.43)	
PCB-139											
359.8415	35:54	35:54	0	1.150	2985941	523573	1351	3377	388		
361.8385	35:54	35:54	0	1.150	2406071	415864	843	2107	493	1.24(1.05-1.43)	
PCB-140 (C139)											
359.8415	35:54	35:54	0	1.150	2985941	523573	1351	3377	388		
361.8385	35:54	35:54	0	1.150	2406071	415864	843	2107	493	1.24(1.05-1.43)	
PCB-131											
359.8415	36:06	36:06	0	1.156	1285681	265745	1351	3377	197		
361.8385	36:06	36:06	0	1.156	1016103	203182	843	2107	241	1.27(1.05-1.43)	
PCB-142											
359.8415	36:15	36:15	0	1.161	1289455	254349	1351	3377	188		
361.8385	36:14	36:15	-1	1.161	1043540	200290	843	2107	238	1.24(1.05-1.43)	
PCB-132											
359.8415	36:34	36:34	0	1.171	1268150	253131	1351	3377	187		
361.8385	36:34	36:34	0	1.171	1015150	195662	843	2107	232	1.25(1.05-1.43)	
PCB-133											
359.8415	37:04	37:04	0	1.187	1380255	258820	1351	3377	192		
361.8385	37:05	37:04	1	1.188	1107288	207439	843	2107	246	1.25(1.05-1.43)	
PCB-165											
359.8415	37:28	37:28	0	0.881	1763842	355420	1351	3377	263		
361.8385	37:28	37:28	0	0.881	1405533	282388	843	2107	335	1.25(1.05-1.43)	
PCB-146											
359.8415	37:43	37:43	0	0.886	1659627	320210	1351	3377	237		
361.8385	37:43	37:43	0	0.886	1327177	259314	843	2107	308	1.25(1.05-1.43)	
PCB-161											
359.8415	37:51	37:51	0	0.890	1905939	367818	1351	3377	272		
361.8385	37:51	37:51	0	0.890	1523338	293209	843	2107	348	1.25(1.05-1.43)	
PCB-153											
359.8415	38:21	38:21	0	0.901	3822895	549998	1351	3377	407		
361.8385	38:21	38:21	0	0.901	2972870	428869	843	2107	509	1.29(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:21	38:21	0	0.901	3822895	549998	1351	3377	407		
361.8385	38:21	38:21	0	0.901	2972870	428869	843	2107	509	1.29(1.05-1.43)	
PCB-141											
359.8415	38:31	38:31	0	0.905	1495521	266751	1351	3377	197		
361.8385	38:31	38:31	0	0.905	1168292	217961	843	2107	259	1.28(1.05-1.43)	
PCB-130											
359.8415	38:55	38:55	0	0.915	1213376	241025	1351	3377	178		
361.8385	38:55	38:55	0	0.915	965575	183089	843	2107	217	1.26(1.05-1.43)	
PCB-137											
359.8415	39:09	39:09	0	0.920	1342320	269627	1351	3377	200		
361.8385	39:09	39:09	0	0.920	1071546	215849	843	2107	256	1.25(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-164											
359.8415	39:16	39:16	0	0.923	1801942	339574	1351	3377	251		
361.8385	39:16	39:16	0	0.923	1452292	269433	843	2107	320	1.24(1.05-1.43)	
PCB-129											
359.8415	39:35	39:35	0	0.930	6349840	729188	1351	3377	540		M
361.8385	39:35	39:35	0	0.930	5127404	593839	843	2107	704	1.24(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:35	39:35	0	0.930	6349840	729188	1351	3377	540		M
361.8385	39:35	39:35	0	0.930	5127404	593839	843	2107	704	1.24(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:35	39:35	0	0.930	6349840	729188	1351	3377	540		M
361.8385	39:35	39:35	0	0.930	5127404	593839	843	2107	704	1.24(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:35	39:35	0	0.930	6349840	729188	1351	3377	540		M
361.8385	39:35	39:35	0	0.930	5127404	593839	843	2107	704	1.24(1.05-1.43)	M
PCB-158											
359.8415	39:57	39:57	0	0.939	2167791	394124	1351	3377	292		
361.8385	39:57	39:57	0	0.939	1760674	320294	843	2107	380	1.23(1.05-1.43)	
PCB-128											
359.8415	40:48	40:48	0	0.959	3396917	477780	1351	3377	354		
361.8385	40:47	40:48	-1	0.959	2711989	401624	843	2107	476	1.25(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:48	40:48	0	0.959	3396917	477780	1351	3377	354		
361.8385	40:47	40:48	-1	0.959	2711989	401624	843	2107	476	1.25(1.05-1.43)	
PCB-159											
359.8415	41:48	41:48	0	0.983	2331917	437338	1351	3377	324		
361.8385	41:48	41:48	0	0.983	1861381	350796	843	2107	416	1.25(1.05-1.43)	
PCB-162											
359.8415	42:05	42:05	0	0.989	2137199	387525	1351	3377	287		
361.8385	42:05	42:05	0	0.989	1715824	311433	843	2107	369	1.25(1.05-1.43)	
PCB-167											
359.8415	42:34	42:34	0	1.001	1902233	344228	1351	3377	255		
361.8385	42:34	42:34	0	1.001	1520117	283214	843	2107	336	1.25(1.05-1.43)	
PCB-156											
359.8415	43:42	43:42	0	1.000	3811536	495746	1351	3377	367		
361.8385	43:43	43:42	1	1.001	3005468	384572	843	2107	456	1.27(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:42	43:42	0	1.000	3811536	495746	1351	3377	367		
361.8385	43:43	43:42	1	1.001	3005468	384572	843	2107	456	1.27(1.05-1.43)	
PCB-169											
359.8415	46:57	46:57	0	1.001	2056145	358777	1351	3377	266		
361.8385	46:57	46:57	0	1.001	1618790	288435	843	2107	342	1.27(1.05-1.43)	
PCB-188L											
405.8428	36:57	36:57	0	0.820	2888150	568716	78	195	7291		
407.8398	36:57	36:57	0	0.820	2754332	550330	66	165	8338	1.05(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-178L											
405.8428	40:00	40:00	0	0.887	1044855	190357	78	195	2440		
407.8398	40:00	40:00	0	0.887	971588	185580	66	165	2812	1.08(0.89-1.21)	
PCB-180L											
405.8428	45:04	45:04	0		2214167	411938	78	195	5281		
407.8398	45:05	45:04	1		2076843	387889	66	165	5877	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:20	46:20	0	1.028	1886753	361367	78	195	4633		
407.8398	46:20	46:20	0	1.028	1782232	336609	66	165	5100	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:26	49:26	0	1.097	3979042	723064	583	1457	1240		
407.8398	49:26	49:26	0	1.097	3785406	697008	1292	3230	539	1.05(0.89-1.21)	
PCB-188											
393.8025	36:58	36:58	0	1.001	1597425	310953	30	75	10365		
395.7995	36:58	36:58	0	1.001	1525240	297950	1	2	297950	1.05(0.89-1.21)	
PCB-179											
393.8025	37:19	37:19	0	1.010	1623800	306490	30	75	10216		
395.7995	37:19	37:19	0	1.010	1515816	286786	1	2	286786	1.07(0.89-1.21)	
PCB-184											
393.8025	37:50	37:50	0	1.024	1603347	304153	30	75	10138		
395.7995	37:50	37:50	0	1.024	1507898	278894	1	2	278894	1.06(0.89-1.21)	
PCB-176											
393.8025	38:11	38:11	0	1.033	1419187	265764	30	75	8859		
395.7995	38:11	38:11	0	1.033	1321548	248086	1	2	248086	1.07(0.89-1.21)	
PCB-186											
393.8025	38:39	38:39	0	1.046	1739749	327166	30	75	10906		
395.7995	38:38	38:39	-1	1.046	1638464	311801	1	2	311801	1.06(0.89-1.21)	
PCB-178											
393.8025	40:02	40:02	0	1.083	1029958	190122	30	75	6337		
395.7995	40:02	40:02	0	1.083	991944	190106	1	2	190106	1.04(0.89-1.21)	
PCB-175											
393.8025	40:39	40:39	0	1.100	1105469	206907	30	75	6897		
395.7995	40:39	40:39	-1	1.100	1039036	194843	1	2	194843	1.06(0.89-1.21)	
PCB-187											
393.8025	40:55	40:55	0	1.108	1281640	248829	30	75	8294		
395.7995	40:56	40:55	1	1.108	1215451	226653	1	2	226653	1.05(0.89-1.21)	
PCB-182											
393.8025	41:08	41:08	0	1.113	1131160	212814	30	75	7094		
395.7995	41:08	41:08	0	1.113	1071597	200944	1	2	200944	1.06(0.89-1.21)	
PCB-183											
393.8025	41:32	41:32	0	1.124	2113786	221976	30	75	7399		M
395.7995	41:32	41:32	0	1.124	2059460	216845	1	2	216845	1.03(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:32	41:32	0	1.124	2113786	221976	30	75	7399		M
395.7995	41:32	41:32	0	1.124	2059460	216845	1	2	216845	1.03(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-174											
393.8025	41:46	41:46	0	1.131	1138169	215652	30	75	7188		
395.7995	41:46	41:46	0	1.131	1111660	207086	1	2	207086	1.02(0.89-1.21)	
PCB-177											
393.8025	42:12	42:12	0	1.142	1107108	193600	30	75	6453		
395.7995	42:12	42:12	0	1.142	1046742	197548	1	2	197548	1.06(0.89-1.21)	
PCB-181											
393.8025	42:36	42:36	0	1.153	1100852	207325	30	75	6911		
395.7995	42:36	42:36	0	1.153	1035589	196336	1	2	196336	1.06(0.89-1.21)	
PCB-171											
393.8025	42:49	42:49	0	1.159	2048191	339019	30	75	11301		
395.7995	42:49	42:49	0	1.159	1941508	328126	1	2	328126	1.05(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:49	42:49	0	1.159	2048191	339019	30	75	11301		
395.7995	42:49	42:49	0	1.159	1941508	328126	1	2	328126	1.05(0.89-1.21)	
PCB-172											
393.8025	44:27	44:27	0	0.899	984303	181787	30	75	6060		
395.7995	44:27	44:27	0	0.899	931973	178245	1	2	178245	1.06(0.89-1.21)	
PCB-192											
393.8025	44:44	44:44	0	0.905	1632906	309203	30	75	10307		
395.7995	44:44	44:44	0	0.905	1525560	286345	1	2	286345	1.07(0.89-1.21)	
PCB-180											
393.8025	45:04	45:04	0	0.912	2737064	362258	30	75	12075		
395.7995	45:04	45:04	-1	0.912	2632388	350643	1	2	350643	1.04(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:04	45:04	0	0.912	2737064	362258	30	75	12075		
395.7995	45:04	45:04	-1	0.912	2632388	350643	1	2	350643	1.04(0.89-1.21)	
PCB-191											
393.8025	45:27	45:27	0	0.920	1528581	282807	30	75	9427		
395.7995	45:27	45:27	0	0.920	1440326	275217	1	2	275217	1.06(0.89-1.21)	
PCB-170											
393.8025	46:22	46:22	0	0.938	1088431	208025	30	75	6934		
395.7995	46:21	46:22	-1	0.938	1000145	183094	1	2	183094	1.09(0.89-1.21)	
PCB-190											
393.8025	46:53	46:53	0	0.948	1575251	288579	30	75	9619		
395.7995	46:53	46:53	0	0.948	1482371	268651	1	2	268651	1.06(0.89-1.21)	
PCB-189											
393.8025	49:28	49:28	0	1.001	1909618	348468	518	1295	673		
395.7995	49:28	49:28	0	1.001	1816160	337758	423	1057	798	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:19	42:19	0	0.821	2058542	383915	80	200	4799		
441.8008	42:19	42:19	0	0.821	2336983	441852	31	77	14253	0.88(0.76-1.02)	
PCB-194L											
439.8038	51:33	51:33	0		2752929	499011	132	330	3780		
441.8008	51:33	51:33	0		3017841	554150	137	342	4045	0.91(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205L											
439.8038	52:01	52:01	0	1.009	3197094	569593	132	330	4315		
441.8008	52:00	52:01	-1	1.009	3540101	627924	137	342	4583	0.90(0.76-1.02)	
PCB-202											
427.7635	42:20	42:20	0	1.001	1106803	203721	54	135	3773		
429.7606	42:20	42:20	-1	1.000	1225446	228216	27	67	8452	0.90(0.76-1.02)	
PCB-201											
427.7635	43:15	43:15	0	1.022	1026171	190324	54	135	3525		
429.7606	43:15	43:15	0	1.022	1135242	218772	27	67	8103	0.90(0.76-1.02)	
PCB-204											
427.7635	43:55	43:55	0	1.038	1109519	211676	54	135	3920		
429.7606	43:55	43:55	0	1.038	1211304	232648	27	67	8617	0.92(0.76-1.02)	
PCB-197											
427.7635	44:09	44:09	0	1.044	1190115	219203	54	135	4059		
429.7606	44:09	44:09	0	1.044	1310736	243853	27	67	9032	0.91(0.76-1.02)	
PCB-200											
427.7635	44:16	44:16	0	1.046	1045341	203121	54	135	3762		
429.7606	44:16	44:16	0	1.046	1170728	222323	27	67	8234	0.89(0.76-1.02)	
PCB-198											
427.7635	47:02	47:02	0	1.112	1764943	222756	54	135	4125		
429.7606	47:01	47:02	-1	1.111	1937980	239686	27	67	8877	0.91(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:02	47:02	0	1.112	1764943	222756	54	135	4125		
429.7606	47:01	47:02	-1	1.111	1937980	239686	27	67	8877	0.91(0.76-1.02)	
PCB-196											
427.7635	47:43	47:43	0	0.917	837644	156578	54	135	2900		
429.7606	47:43	47:43	0	0.917	935871	173721	27	67	6434	0.90(0.76-1.02)	
PCB-203											
427.7635	47:54	47:54	0	0.921	993459	181770	54	135	3366		
429.7606	47:54	47:54	0	0.921	1114328	202924	27	67	7516	0.89(0.76-1.02)	
PCB-195											
427.7635	49:13	49:13	0	0.946	1321827	233393	427	1067	547		
429.7606	49:13	49:13	0	0.946	1451424	260817	1309	3272	199	0.91(0.76-1.02)	
PCB-194											
427.7635	51:34	51:34	0	0.991	1513347	281374	427	1067	659		
429.7606	51:34	51:34	0	0.991	1658982	305844	1309	3272	234	0.91(0.76-1.02)	
PCB-205											
427.7635	52:02	52:02	0	1.000	1675880	315878	427	1067	740		
429.7606	52:02	52:02	0	1.000	1907713	346379	1309	3272	265	0.88(0.76-1.02)	
PCB-208L											
473.7648	48:58	48:58	0	0.950	2647070	478947	542	1355	884		
475.7619	48:58	48:58	0	0.950	3335579	604406	551	1377	1097	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:46	53:46	0	1.043	2001736	353794	542	1355	653		
475.7619	53:46	53:46	0	1.043	2462694	432336	551	1377	785	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-208											
461.7246	49:00	49:00	0	1.001	1459442	271221	523	1307	519		
463.7216	49:00	49:00	0	1.001	1831958	333489	868	2170	384	0.80(0.65-0.89)	
PCB-207											
461.7246	49:55	49:55	0	1.019	1490549	279181	523	1307	534		
463.7216	49:55	49:55	0	1.019	1845060	352310	868	2170	406	0.81(0.65-0.89)	
PCB-206											
461.7246	53:47	53:47	0	1.000	1203116	211689	523	1307	405		
463.7216	53:47	53:47	0	1.000	1513149	277090	868	2170	319	0.80(0.65-0.89)	
PCB-209L											
507.7258	55:22	55:22	0	1.074	1998880	344572	111	277	3104		
509.7229	55:22	55:22	0	1.074	2824874	488467	64	160	7632	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:24	55:24	0	1.000	1079654	184002	45	112	4089		
497.6826	55:24	55:24	0	1.000	1528449	260940	68	170	3837	0.71(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61CV1668CS3_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville
CCV Relative RT Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
 Lims ID: WDMCCV
 Client ID:
 Sample Type: WDMCCV
 Inject. Date: 11-Jun-2024 21:36:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033034-001
 Operator ID: Xcalibur_System Instrument ID: D2D
 Sublist: chrom-PCBs_D2D*sub2
 Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 11-Jun-2024 23:03:49 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1669
 First Level Reviewer: Q9DB Date: 11-Jun-2024 23:03:49
 Start Cal Date: 31-May-2024 14:36:00
 End Cal Date: 31-May-2024 21:13:00

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-1L		11:34	11:32	-1	15	0.7253	0.7266	0.717 - 0.7472
PCB-3L		13:43	13:40	-3	15	0.8606	0.8608	0.849 - 0.8798
PCB-1	L	11:35	11:33	-1		1.0011	1.0011	0.995 - 1.0085
PCB-2		13:34	13:31	-3		0.9885	0.9884	0.985 - 0.9925
PCB-3	L	13:44	13:41	-3		1.0010	1.0010	0.998 - 1.0048
PCB-4L		13:59	13:56	-3	15	0.8771	0.8774	0.865 - 0.8956
PCB-9L		15:57	15:53	-3		1.0000	1.0000	0.987 - 1.0128
PCB-8L		16:48	16:43	-5		1.1991	*1.1992	1.192 - 1.1989
PCB-15L		19:52	19:46	-5	15	1.2459	1.2452	1.233 - 1.2530
PCB-4	L	14:00	13:57	-3		1.0009	1.0009	0.994 - 1.0058
PCB-10		14:10	14:07	-3		1.0132	1.0132	1.010 - 1.0168
PCB-9		15:58	15:54	-4		1.1421	1.1407	1.135 - 1.1415
PCB-7		16:08	16:04	-3		1.1534	1.1530	1.147 - 1.1538
PCB-6		16:22	16:18	-3		1.1703	1.1699	1.164 - 1.1706
PCB-5		16:41	16:36	-4		1.1929	1.1917	1.186 - 1.1926
PCB-8		16:48	16:44	-3		1.2013	*1.2011	1.194 - 1.2008
PCB-14		18:26	18:20	-5		0.9278	0.9275	0.926 - 0.9305
PCB-11		19:16	19:11	-5		0.9702	0.9701	0.968 - 0.9725
PCB-12/13		19:34	19:29	-4		0.9848	0.9854	0.983 - 0.9875
PCB-15	L	19:53	19:48	-5		1.0013	1.0013	0.997 - 1.0050
PCB-19L		17:05	17:01	-4	15	0.8402	0.8402	0.831 - 0.8547
PCB-32L		20:20	20:15	-5		1.0000	1.0000	0.998 - 1.0024
PCB-31L		22:37	22:31	-6		1.0000	1.0000	0.998 - 1.0022
PCB-28L		22:55	22:47	-7		1.0130	1.0125	1.006 - 1.0201

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-37L		26:54	26:48	-6	15	1.1902	1.1905	1.178 - 1.1995
PCB-19	L	17:06	17:02	-3		1.0008	1.0015	0.996 - 1.0058
PCB-18/30		18:57	18:51	-5		1.1085	1.1083	1.104 - 1.1093
PCB-17		19:23	19:18	-5		1.1347	1.1346	1.129 - 1.1352
PCB-27		19:37	19:31	-5		1.1478	*1.1477	1.141 - 1.1471
PCB-24		19:44	19:38	-5		1.1547	*1.1547	1.148 - 1.1542
PCB-16		19:51	19:46	-5		1.1617	1.1616	1.156 - 1.1621
PCB-32		20:22	20:16	-5		1.1917	*1.1918	1.185 - 1.1908
PCB-34		21:37	21:31	-6		1.2654	*1.2654	1.257 - 1.2623
PCB-23		21:47	21:41	-6		1.2744	*1.2744	1.266 - 1.2715
PCB-26/29		22:06	22:00	-6		1.2931	*1.2933	1.282 - 1.2915
PCB-25		22:19	22:13	-6		0.8293	0.8290	0.829 - 0.8325
PCB-31		22:38	22:31	-6		0.8412	0.8405	0.840 - 0.8438
PCB-20/28		22:56	22:50	-6		0.8526	0.8520	0.851 - 0.8568
PCB-21/33		23:06	23:00	-6		0.8588	0.8582	0.858 - 0.8637
PCB-22		23:33	23:27	-5		0.8754	0.8754	0.875 - 0.8786
PCB-36		25:07	25:00	-6		0.9334	0.9331	0.932 - 0.9352
PCB-39		25:28	25:22	-6		0.9467	0.9465	0.945 - 0.9483
PCB-38		26:03	25:56	-6		0.9681	0.9680	0.966 - 0.9695
PCB-35		26:31	26:24	-7		0.9857	0.9852	0.984 - 0.9875
PCB-37	L	26:55	26:48	-6		1.0005	1.0005	0.999 - 1.0024
PCB-54L		20:10	20:04	-5	15	0.8149	0.8149	0.811 - 0.8247
PCB-52L		24:45	24:38	-6		1.0000	1.0000	0.992 - 1.0083
PCB-79L		32:41	32:32	-8		0.9707	0.9706	0.969 - 0.9718
PCB-81L		33:40	33:31	-8	15	1.3604	1.3610	1.351 - 1.3641
PCB-77L		34:13	34:06	-7	15	1.3832	1.3844	1.373 - 1.3867
PCB-54	L	20:12	20:06	-5		1.0000	1.0000	0.996 - 1.0041
PCB-50/53		22:23	22:16	-6		1.1097	1.1092	1.102 - 1.1106
PCB-45/51		23:06	23:00	-6		1.1459	*1.1455	1.137 - 1.1453
PCB-46		23:20	23:14	-6		1.1573	*1.1577	1.153 - 1.1576
PCB-52		24:46	24:39	-7		1.2284	*1.2278	1.222 - 1.2263
PCB-43/73		24:55	24:48	-6		1.2353	*1.2354	1.230 - 1.2346
PCB-49/69		25:12	25:05	-7		1.2499	1.2495	1.242 - 1.2499
PCB-48		25:32	25:25	-7		1.2665	*1.2660	1.259 - 1.2636
PCB-44/47/65		25:47	25:39	-7		1.2785	*1.2782	1.269 - 1.2770
PCB-59/62/75		26:05	25:58	-6		1.2931	*1.2935	1.284 - 1.2919
PCB-42		26:17	26:10	-6		1.3033	*1.3037	1.296 - 1.3007
PCB-40/41/71		26:47	26:40	-6		1.3280	*1.3285	1.317 - 1.3250
PCB-64		27:00	26:53	-6		1.3388	*1.3393	1.331 - 1.3355
PCB-72		27:50	27:43	-7		0.8271	0.8267	0.826 - 0.8291
PCB-68		28:07	28:00	-7		0.8354	0.8351	0.835 - 0.8375
PCB-57		28:33	28:25	-7		0.8480	0.8477	0.847 - 0.8500
PCB-58		28:47	28:40	-7		0.8552	0.8550	0.854 - 0.8574
PCB-67		28:57	28:49	-8		0.8601	0.8595	0.859 - 0.8620
PCB-63		29:13	29:05	-7		0.8677	0.8676	0.866 - 0.8694
PCB-61/70/74/76		29:33	29:26	-7		0.8780	0.8779	0.875 - 0.8810

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-66		29:52	29:45	-7		0.8875	0.8874	0.886 - 0.8894
PCB-55		30:02	29:54	-7		0.8920	0.8920	0.891 - 0.8943
PCB-56		30:32	30:25	-7		0.9072	0.9073	0.907 - 0.9098
PCB-60		30:45	30:37	-8		0.9137	0.9134	0.913 - 0.9158
PCB-80		31:10	31:03	-7		0.9259	0.9260	0.924 - 0.9268
PCB-79		32:42	32:34	-8		0.9715	0.9714	0.970 - 0.9726
PCB-78		33:15	33:07	-8		0.9878	0.9878	0.986 - 0.9890
PCB-81	T	33:41	33:33	-8		1.0008	1.0008	0.999 - 1.0020
PCB-77	T/L	34:15	34:07	-8		1.0007	1.0004	0.999 - 1.0019
PCB-104L		25:42	25:34	-7	15	0.8129	0.8125	0.810 - 0.8199
PCB-95L		28:40	28:32	-7		1.1155	1.1161	1.112 - 1.1179
PCB-101L		31:36	31:28	-8		1.0000	1.0000	0.994 - 1.0065
PCB-111L		34:17	34:08	-9		1.0850	1.0850	1.079 - 1.0891
PCB-123L		36:15	36:06	-8	15	1.1469	1.1471	1.141 - 1.1511
PCB-118L		36:34	36:25	-8	15	1.1573	1.1576	1.151 - 1.1614
PCB-114L		37:06	36:57	-8	15	1.1739	1.1743	1.168 - 1.1780
PCB-105L		37:44	37:35	-8	15	1.1943	1.1948	1.188 - 1.1989
PCB-127L		39:13	39:04	-8		1.0000	1.0000	0.995 - 1.0053
PCB-126L		40:49	40:41	-8	15	1.2917	1.2931	1.285 - 1.2956
PCB-104	L	25:42	25:36	-6		1.0005	1.0010	0.998 - 1.0039
PCB-96		26:05	25:58	-6		1.0149	1.0155	1.013 - 1.0195
PCB-103		28:01	27:54	-7		1.0907	1.0911	1.087 - 1.0912
PCB-94		28:14	28:07	-6		1.0991	1.1001	1.097 - 1.1003
PCB-95		28:41	28:34	-7		1.1165	1.1171	1.113 - 1.1193
PCB-93/100		28:54	28:47	-7		1.1250	1.1256	1.120 - 1.1267
PCB-98/102		29:03	28:55	-8		1.1310	1.1311	1.127 - 1.1336
PCB-88/91		29:33	29:25	-7		1.1499	*1.1507	1.143 - 1.1505
PCB-84		29:46	29:39	-6		1.1584	1.1597	1.157 - 1.1603
PCB-89		30:15	30:07	-7		1.1773	1.1782	1.175 - 1.1786
PCB-121		30:40	30:32	-8		1.1937	*1.1942	1.188 - 1.1922
PCB-92		31:02	30:55	-7		0.8564	0.8565	0.856 - 0.8589
PCB-90/101/113		31:37	31:29	-8		1.2306	*1.2312	1.224 - 1.2307
PCB-83/99		32:12	32:04	-8		1.2535	*1.2543	1.245 - 1.2525
PCB-112		32:19	32:11	-8		1.2580	*1.2588	1.254 - 1.2574
PCB-86/87/97/109/119/125		32:41	32:33	-8		1.2724	1.2733	1.265 - 1.2756
PCB-85/116/117		33:25	33:16	-9		1.3008	*1.3013	1.293 - 1.3007
PCB-110/115		33:36	33:30	-5		1.3078	*1.3103	1.303 - 1.3092
PCB-82		33:54	33:47	-7		1.3198	*1.3213	1.316 - 1.3194
PCB-111		34:19	34:10	-9		1.3357	*1.3364	1.329 - 1.3330
PCB-120		34:46	34:37	-8		1.3531	*1.3544	1.348 - 1.3514
PCB-108/124		35:54	35:46	-8		1.3975	*1.3990	1.390 - 1.3967
PCB-107		36:09	36:00	-8		1.4072	*1.4082	1.401 - 1.4049
PCB-123	T	36:16	36:07	-8		1.0007	1.0007	1.000 - 1.0023
PCB-106		36:22	36:14	-8		1.0036	1.0040	1.003 - 1.0057
PCB-118	T	36:35	36:27	-8		1.0004	1.0007	0.999 - 1.0019
PCB-122		36:56	36:47	-8		1.0101	1.0101	1.009 - 1.0117

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-114	T	37:07	36:58	-8		1.0004	1.0007	0.999 - 1.0018
PCB-105	T	37:46	37:37	-8		1.0007	1.0007	0.999 - 1.0018
PCB-127		39:14	39:06	-8		1.0397	1.0399	1.037 - 1.0399
PCB-126	T/L	40:51	40:42	-8		1.0006	1.0003	1.000 - 1.0016
PCB-155L		31:22	31:13	-9	15	0.7904	0.7896	0.787 - 0.7951
PCB-153L		38:27	38:17	-9		0.9005	0.9001	0.899 - 0.9028
PCB-138L		39:41	39:32	-8		1.0000	1.0000	0.979 - 1.0208
PCB-167L		42:42	42:32	-9	15	1.0759	1.0758	1.071 - 1.0792
PCB-156L/157L		43:51	43:42	-9	15	1.1050	1.1051	1.100 - 1.1084
PCB-169L		47:05	46:55	-9	15	1.1862	*1.1866	1.184 - 1.1864
PCB-155	L	31:24	31:16	-8		1.0008	1.0012	0.998 - 1.0031
PCB-152		31:35	31:27	-8		1.0069	1.0074	1.006 - 1.0096
PCB-150		31:45	31:37	-8		1.0122	1.0127	1.011 - 1.0144
PCB-136		32:07	31:59	-7		1.0236	1.0246	1.024 - 1.0268
PCB-145		32:24	32:16	-8		1.0330	1.0336	1.033 - 1.0358
PCB-148		33:56	33:48	-8		1.0816	1.0824	1.080 - 1.0830
PCB-135/151		34:31	34:22	-9		1.1004	1.1008	1.099 - 1.1038
PCB-154		34:46	34:38	-8		1.1085	1.1094	1.106 - 1.1107
PCB-144		35:05	34:57	-8		1.1183	1.1193	1.117 - 1.1199
PCB-147/149		35:27	35:18	-8		1.1301	1.1308	1.127 - 1.1326
PCB-134/143		35:45	35:36	-8		1.1394	1.1405	1.136 - 1.1409
PCB-139/140		36:03	35:54	-8		1.1490	1.1498	1.146 - 1.1515
PCB-131		36:15	36:06	-8		1.1553	1.1565	1.154 - 1.1571
PCB-142		36:23	36:15	-8		1.1599	1.1611	1.159 - 1.1621
PCB-132		36:42	36:34	-8		1.1700	1.1712	1.168 - 1.1728
PCB-133		37:13	37:04	-8		1.1863	*1.1873	1.184 - 1.1872
PCB-165		37:37	37:28	-8		0.8808	0.8806	0.880 - 0.8825
PCB-146		37:52	37:43	-8		0.8867	0.8865	0.886 - 0.8882
PCB-161		37:59	37:51	-8		0.8897	0.8896	0.889 - 0.8914
PCB-153/168		38:29	38:21	-8		0.9014	0.9014	0.900 - 0.9040
PCB-141		38:40	38:31	-8		0.9054	0.9054	0.905 - 0.9075
PCB-130		39:04	38:55	-8		0.9150	0.9150	0.915 - 0.9172
PCB-137		39:18	39:09	-8		0.9202	0.9202	0.920 - 0.9224
PCB-164		39:25	39:16	-8		0.9230	0.9230	0.923 - 0.9252
PCB-129/138/160/163		39:44	39:35	-8		0.9304	0.9304	0.930 - 0.9349
PCB-158		40:06	39:57	-9		0.9393	0.9391	0.939 - 0.9409
PCB-128/166		40:57	40:48	-8		0.9590	0.9592	0.958 - 0.9617
PCB-159		41:58	41:48	-9		0.9828	0.9827	0.982 - 0.9839
PCB-162		42:15	42:05	-9		0.9895	0.9895	0.988 - 0.9907
PCB-167	T	42:43	42:34	-9		1.0006	1.0006	0.999 - 1.0016
PCB-156/157	T	43:53	43:42	-10		1.0006	1.0003	0.999 - 1.0025
PCB-169	T/L	47:06	46:57	-9		1.0006	1.0006	0.999 - 1.0015
PCB-188L		37:06	36:57	-8	15	0.8198	0.8196	0.817 - 0.8243
PCB-178L		40:09	40:00	-8		0.8875	0.8874	0.884 - 0.8916
PCB-180L		45:15	45:04	-10		1.0000	1.0000	0.996 - 1.0037
PCB-170L		46:30	46:20	-9	15	1.0276	1.0280	1.024 - 1.0317

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-189L		49:37	49:26	-10	15	1.0965	1.0967	1.093 - 1.1000
PCB-188	L	37:07	36:58	-9		1.0007	1.0007	1.000 - 1.0022
PCB-179		37:27	37:19	-8		1.0096	1.0100	1.009 - 1.0115
PCB-184		37:59	37:50	-9		1.0241	1.0239	1.023 - 1.0254
PCB-176		38:20	38:11	-8		1.0333	1.0335	1.033 - 1.0351
PCB-186		38:48	38:39	-8		1.0457	1.0460	1.045 - 1.0476
PCB-178		40:10	40:02	-8		1.0830	1.0833	1.081 - 1.0837
PCB-175		40:48	40:39	-8		1.1000	1.1004	1.098 - 1.1008
PCB-187		41:05	40:55	-9		1.1074	1.1076	1.106 - 1.1082
PCB-182		41:17	41:08	-8		1.1127	1.1132	1.111 - 1.1137
PCB-183/185		41:42	41:32	-9		1.1241	1.1243	1.123 - 1.1260
PCB-174		41:56	41:46	-9		1.1305	1.1307	1.129 - 1.1313
PCB-177		42:22	42:12	-9		1.1422	1.1424	1.140 - 1.1430
PCB-181		42:45	42:36	-8		1.1524	1.1531	1.151 - 1.1535
PCB-171/173		42:58	42:49	-9		1.1585	1.1588	1.156 - 1.1602
PCB-172		44:37	44:27	-9		0.8993	0.8993	0.899 - 0.9008
PCB-192		44:54	44:44	-9		0.9049	0.9049	0.904 - 0.9060
PCB-180/193		45:14	45:04	-9		0.9117	0.9118	0.911 - 0.9130
PCB-191		45:37	45:27	-9		0.9194	0.9195	0.919 - 0.9209
PCB-170		46:31	46:22	-9		0.9377	0.9379	0.937 - 0.9392
PCB-190		47:02	46:53	-9		0.9481	0.9482	0.948 - 0.9496
PCB-189	T/L	49:38	49:28	-9		1.0003	1.0005	0.999 - 1.0013
PCB-202L		42:28	42:19	-8	15	0.8211	0.8208	0.819 - 0.8249
PCB-194L		51:43	51:33	-9		1.0000	1.0000	0.996 - 1.0040
PCB-205L		52:11	52:01	-9	15	1.0092	1.0092	1.004 - 1.0138
PCB-202	L	42:29	42:20	-8		1.0006	1.0006	0.999 - 1.0027
PCB-201		43:24	43:15	-9		1.0223	1.0221	1.020 - 1.0237
PCB-204		44:05	43:55	-9		1.0381	1.0379	1.036 - 1.0388
PCB-197		44:19	44:09	-9		1.0437	1.0435	1.042 - 1.0445
PCB-200		44:25	44:16	-9		1.0462	1.0460	1.045 - 1.0473
PCB-198/199		47:12	47:02	-9		1.1115	1.1116	1.109 - 1.1132
PCB-196		47:53	47:43	-9		0.9175	0.9173	0.917 - 0.9189
PCB-203		48:05	47:54	-10		0.9212	0.9208	0.921 - 0.9226
PCB-195		49:24	49:13	-10		0.9465	0.9461	0.946 - 0.9481
PCB-194		51:44	51:34	-9		0.9914	0.9914	0.991 - 0.9926
PCB-205	L	52:13	52:02	-10		1.0005	1.0002	0.999 - 1.0013
PCB-208L		49:08	48:58	-9	15	0.9503	0.9501	0.947 - 0.9534
PCB-206L		53:56	53:46	-10	15	1.0431	1.0430	1.038 - 1.0472
PCB-208	L	49:10	49:00	-9		1.0005	1.0005	0.999 - 1.0013
PCB-207		50:05	49:55	-9		1.0193	1.0193	1.019 - 1.0205
PCB-206	L	53:58	53:47	-10		1.0005	1.0005	1.000 - 1.0015
PCB-209L		55:35	55:22	-12	15	1.0748	1.0743	1.069 - 1.0784
DCB Decachlorobiphenyl	L	55:35	55:24	-11		1.0002	1.0005	0.999 - 1.0012

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Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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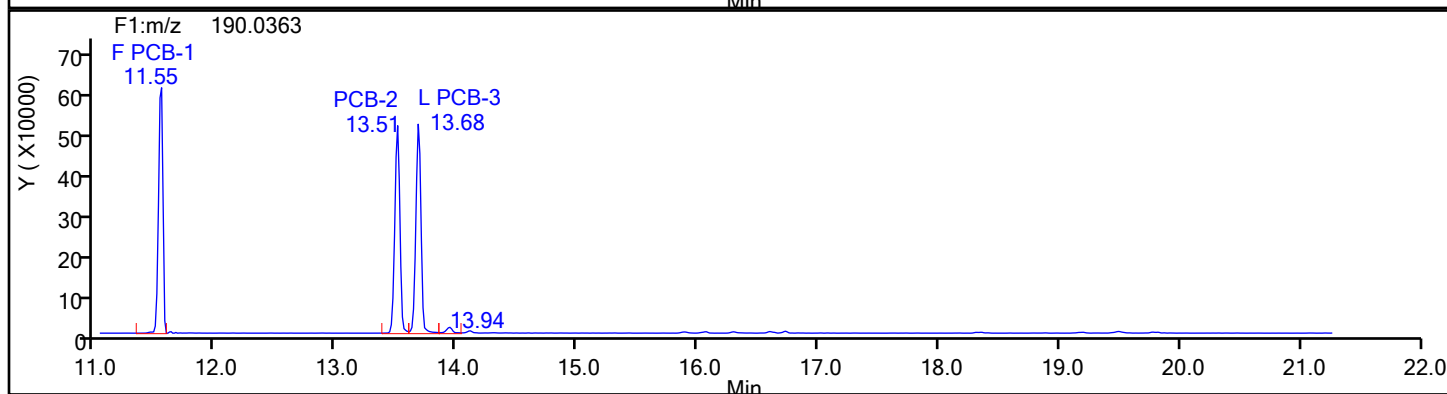
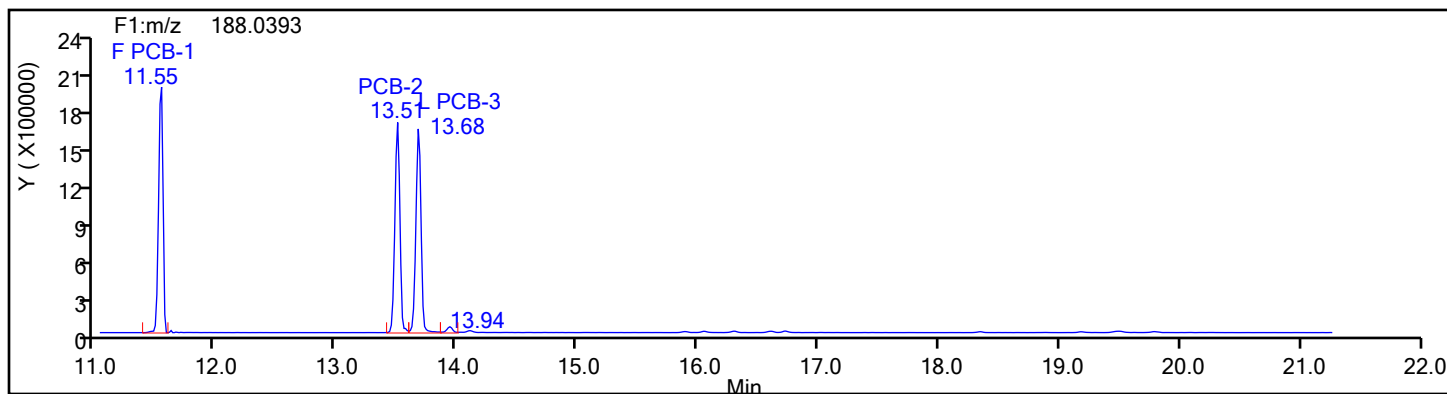
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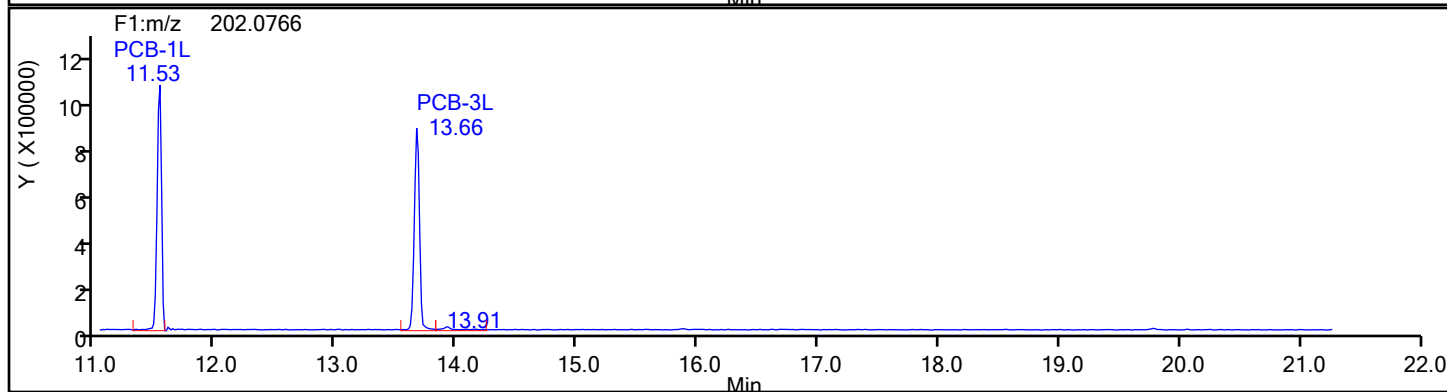
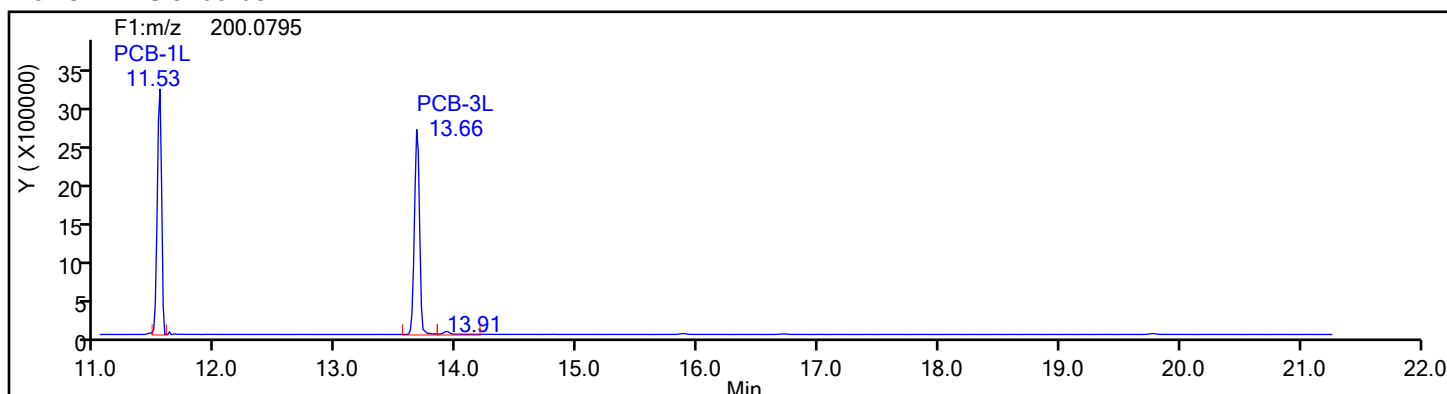
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

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Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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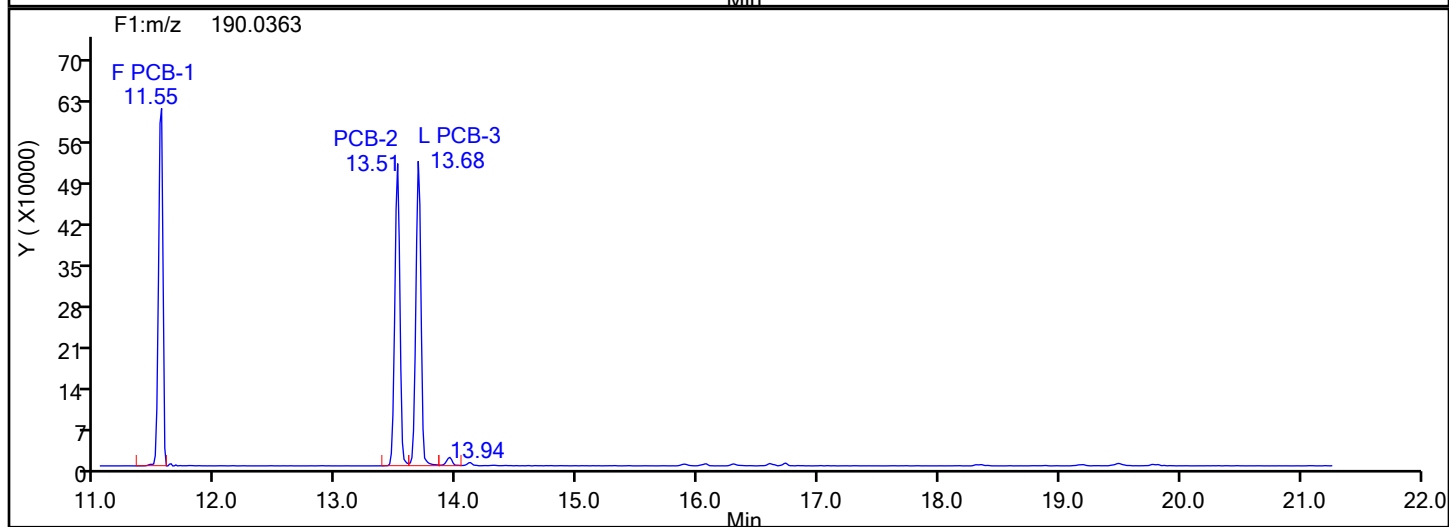
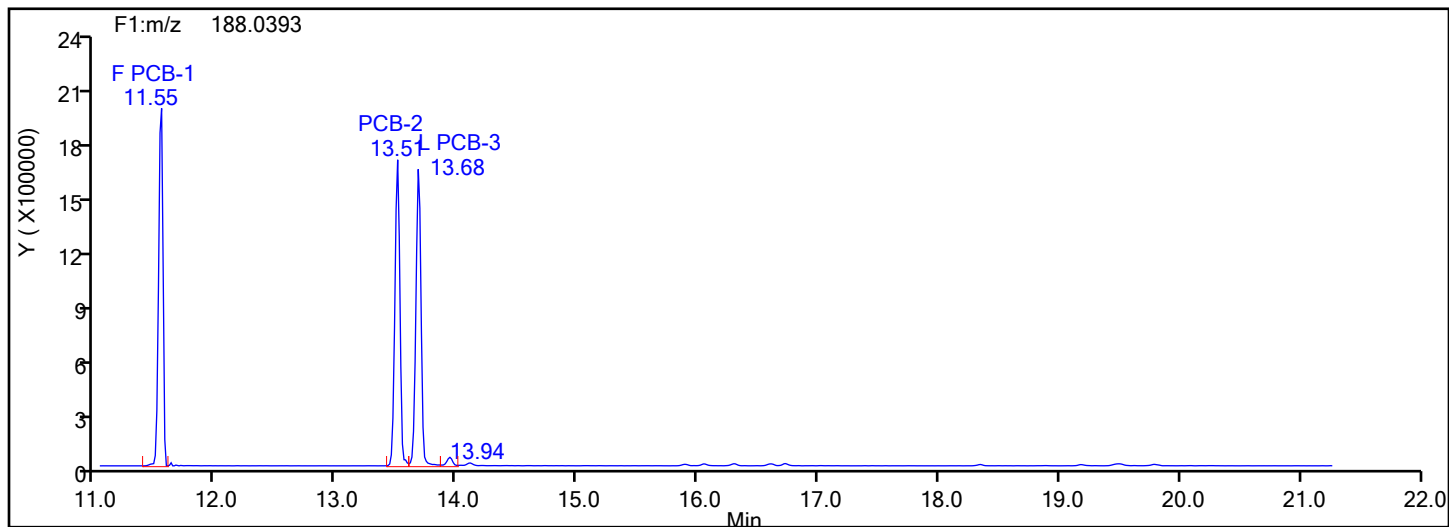
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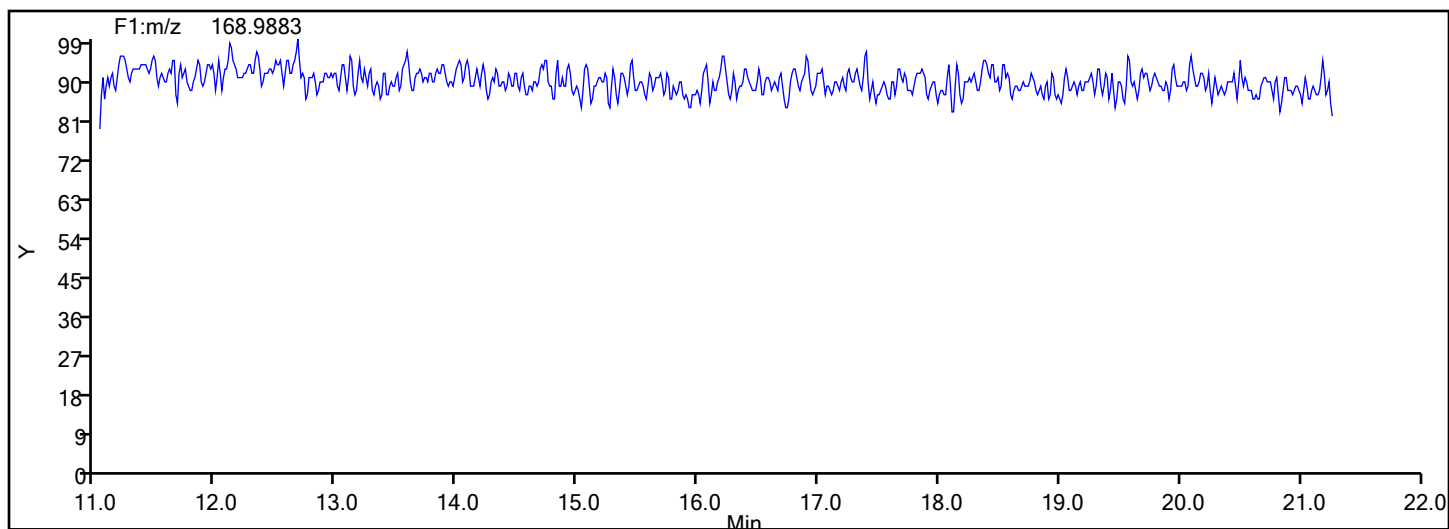
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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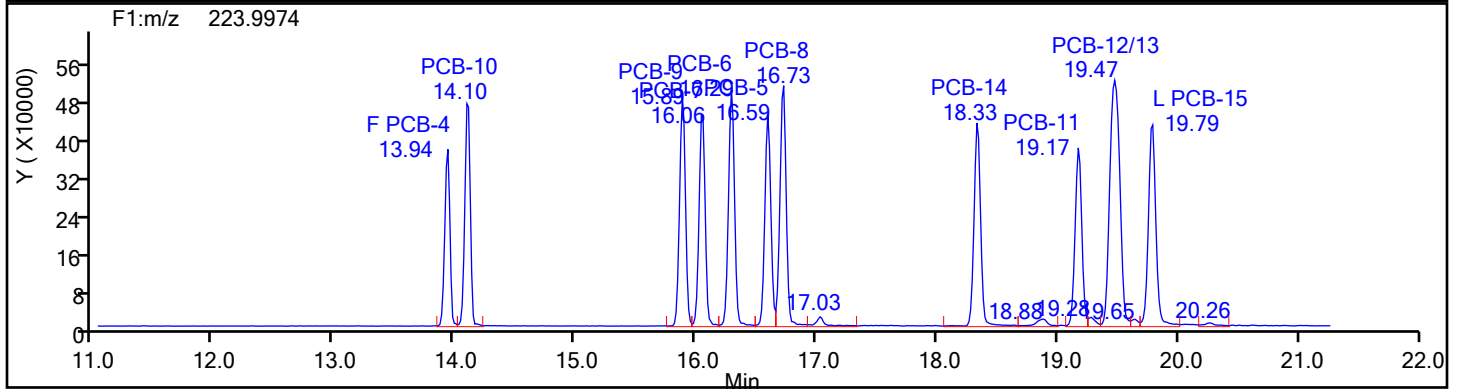
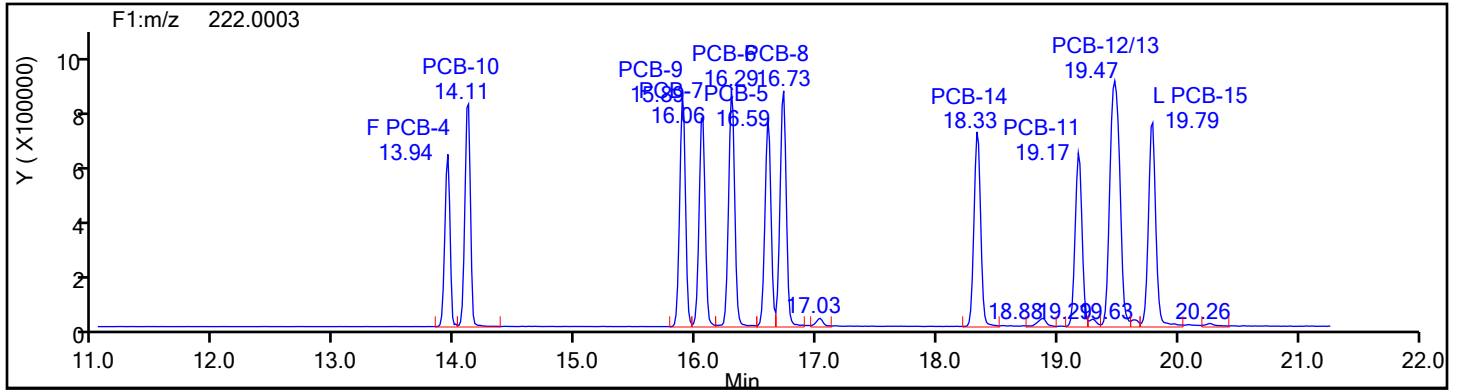
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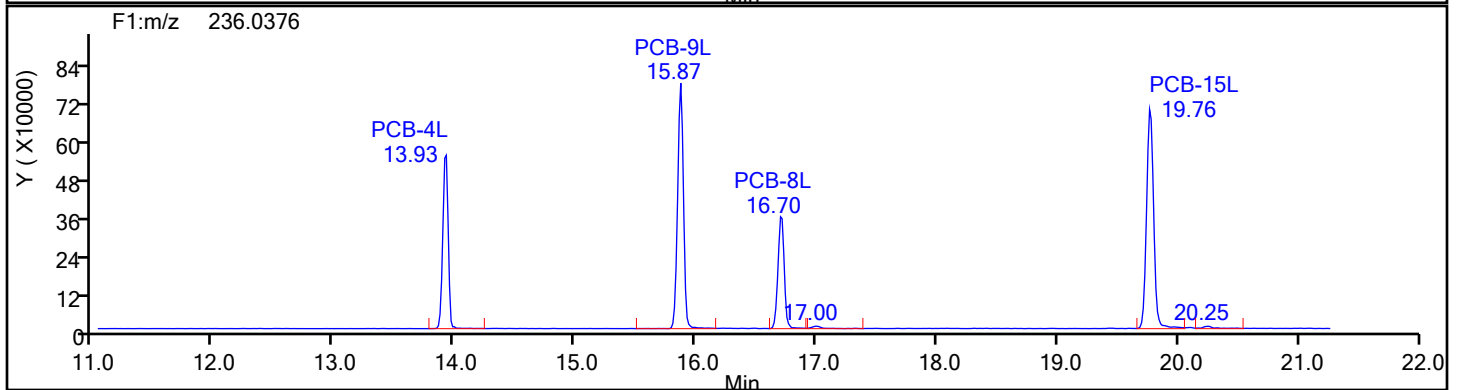
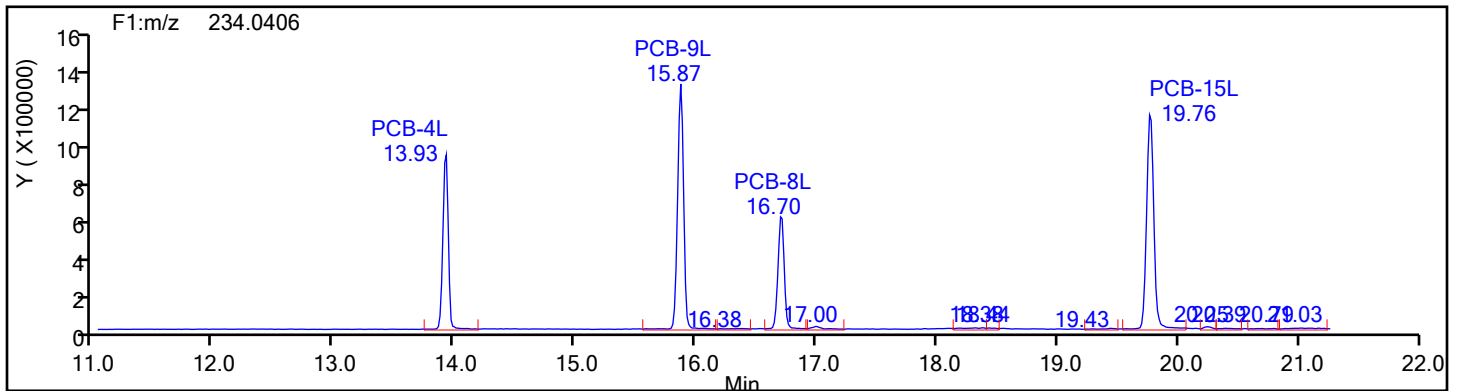
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

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Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

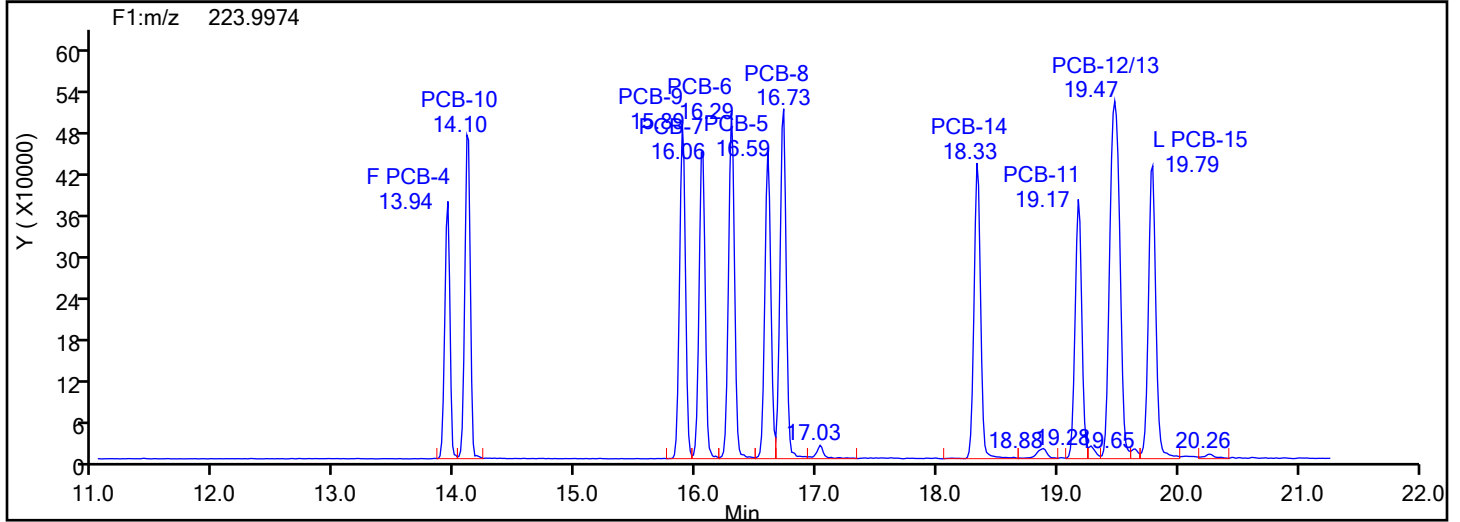
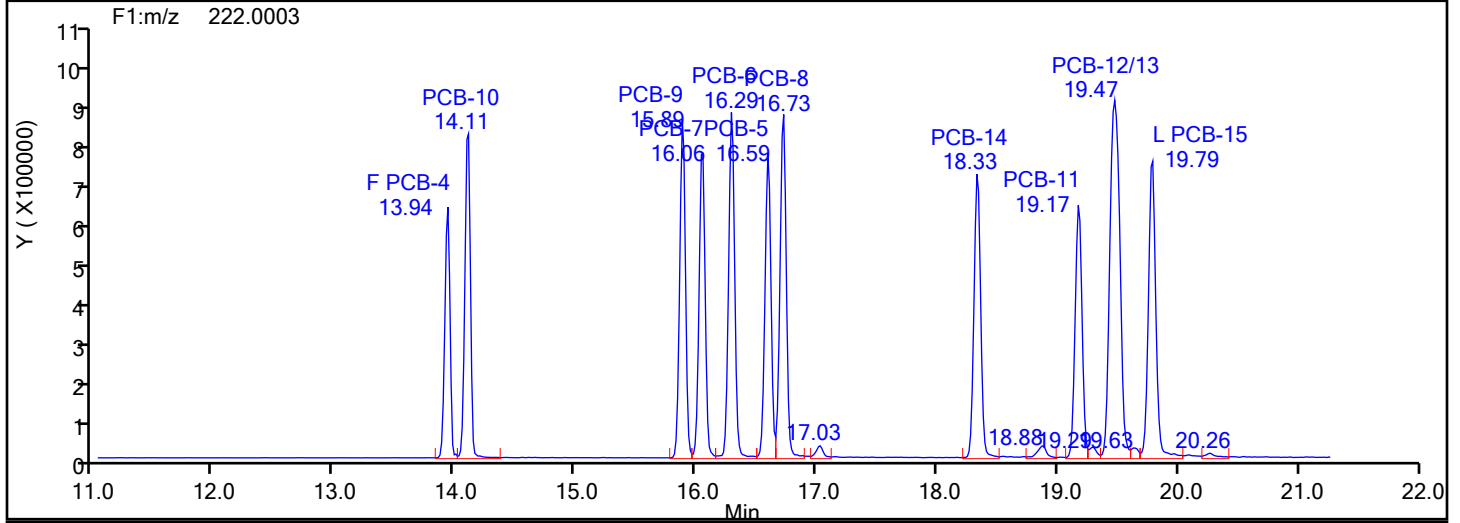
Worklist#: 87536

Sample Line#: 1

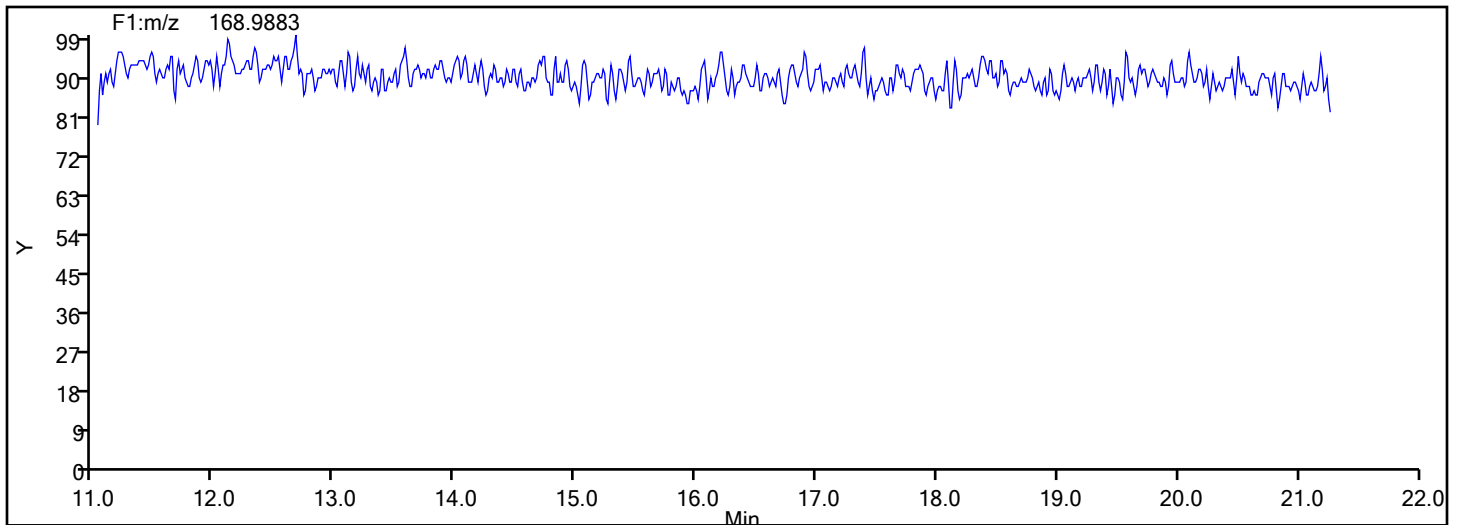
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

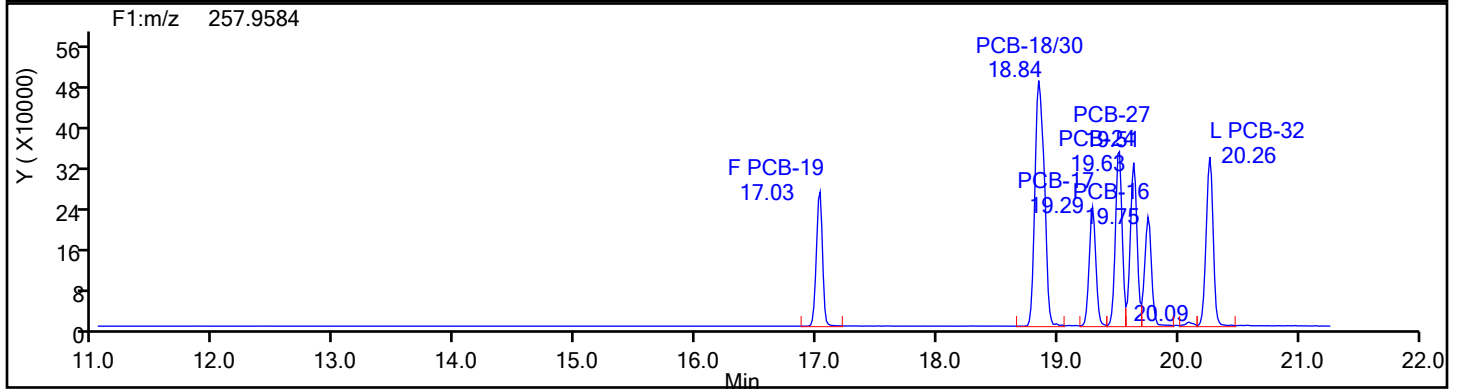
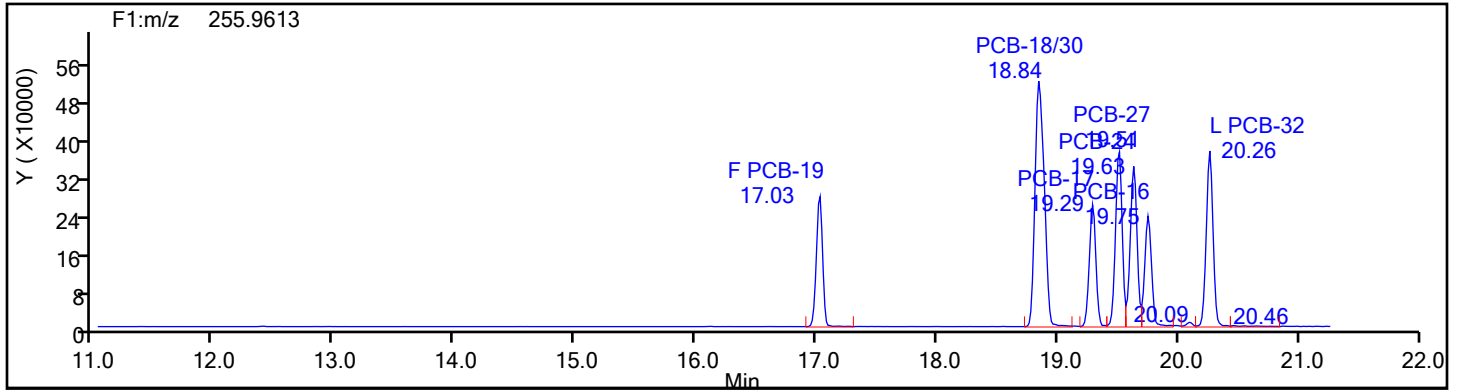
Worklist#: 87536

Sample Line#: 1

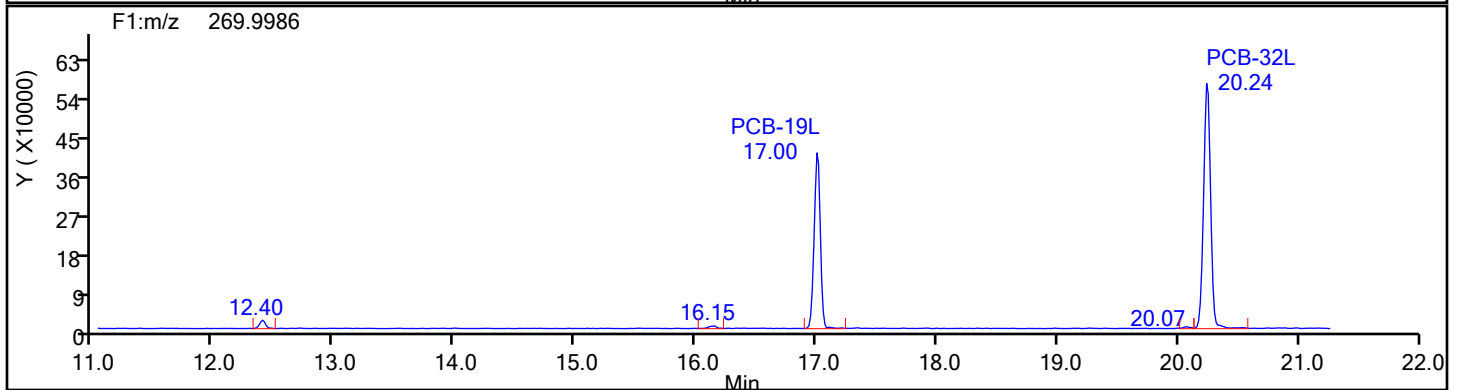
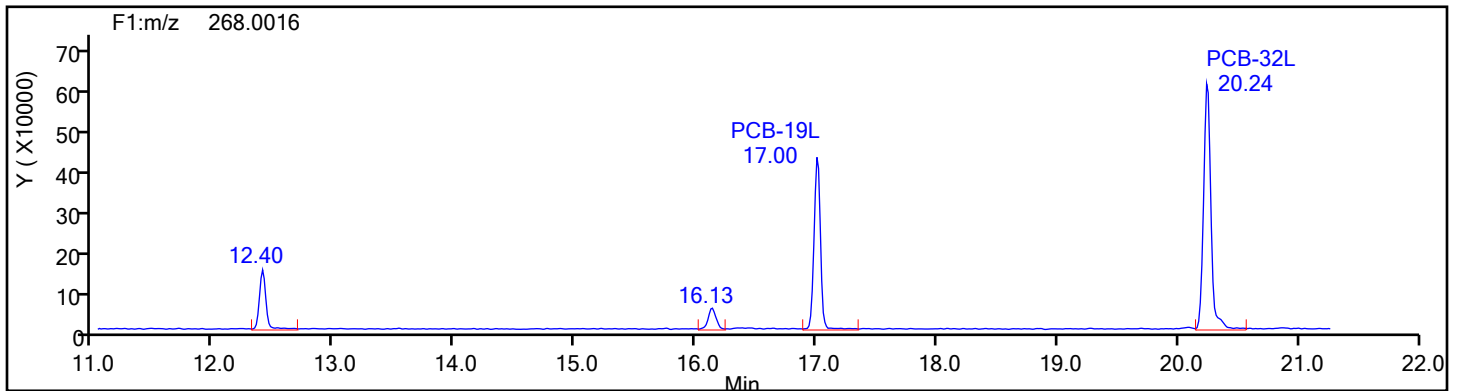
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

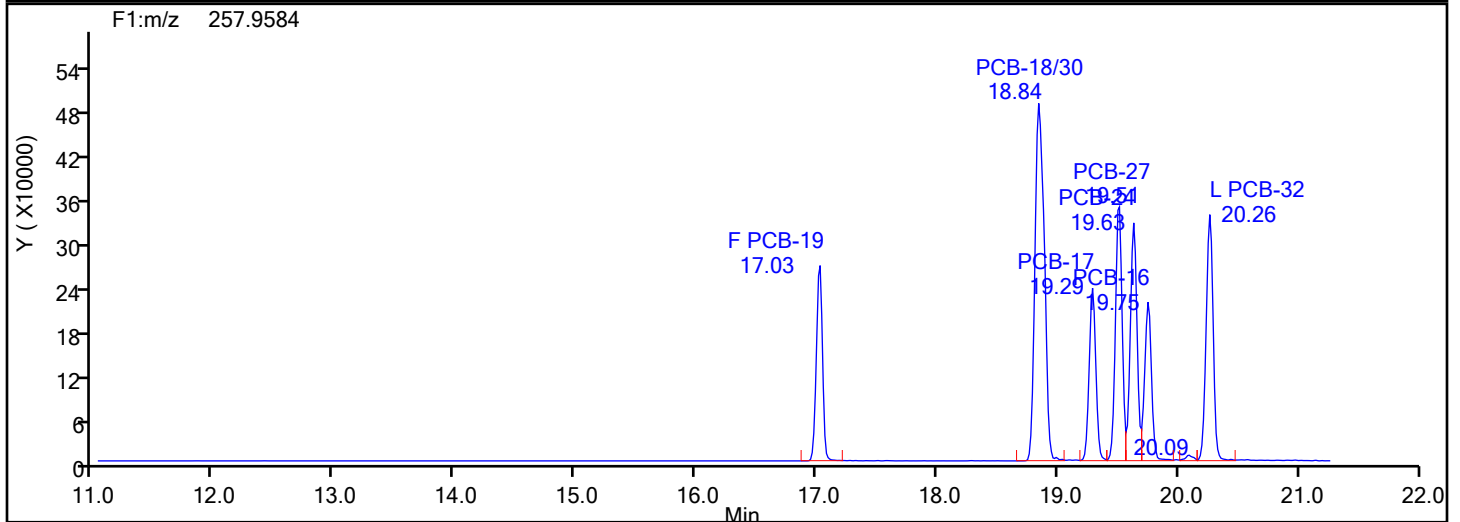
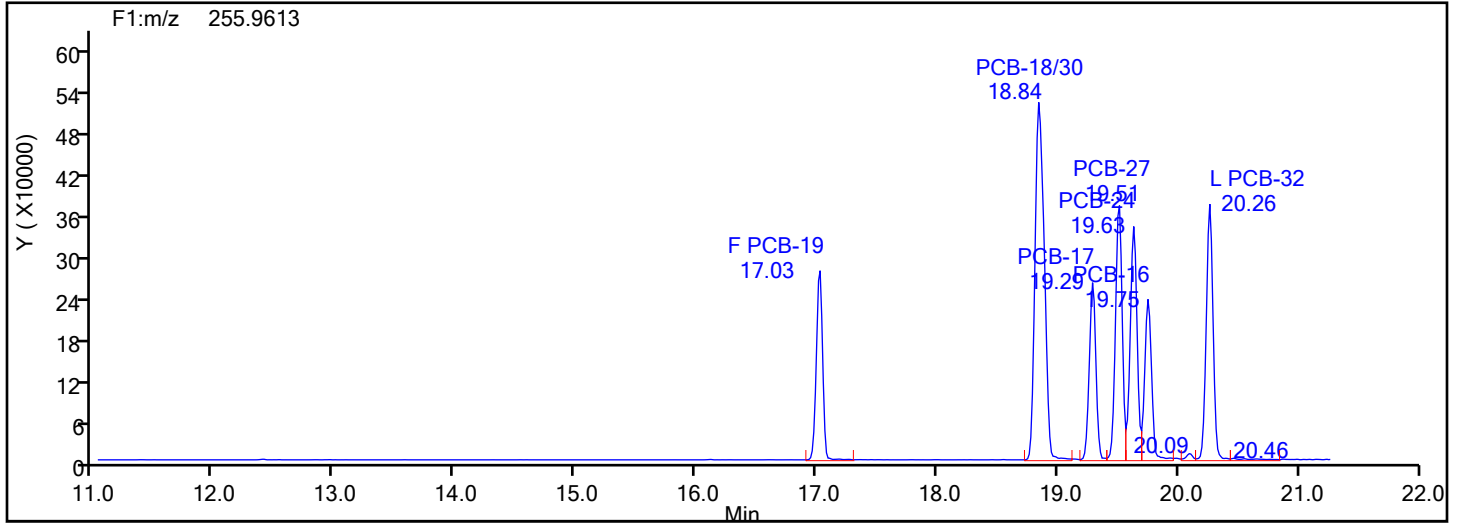
Worklist#: 87536

Sample Line#: 1

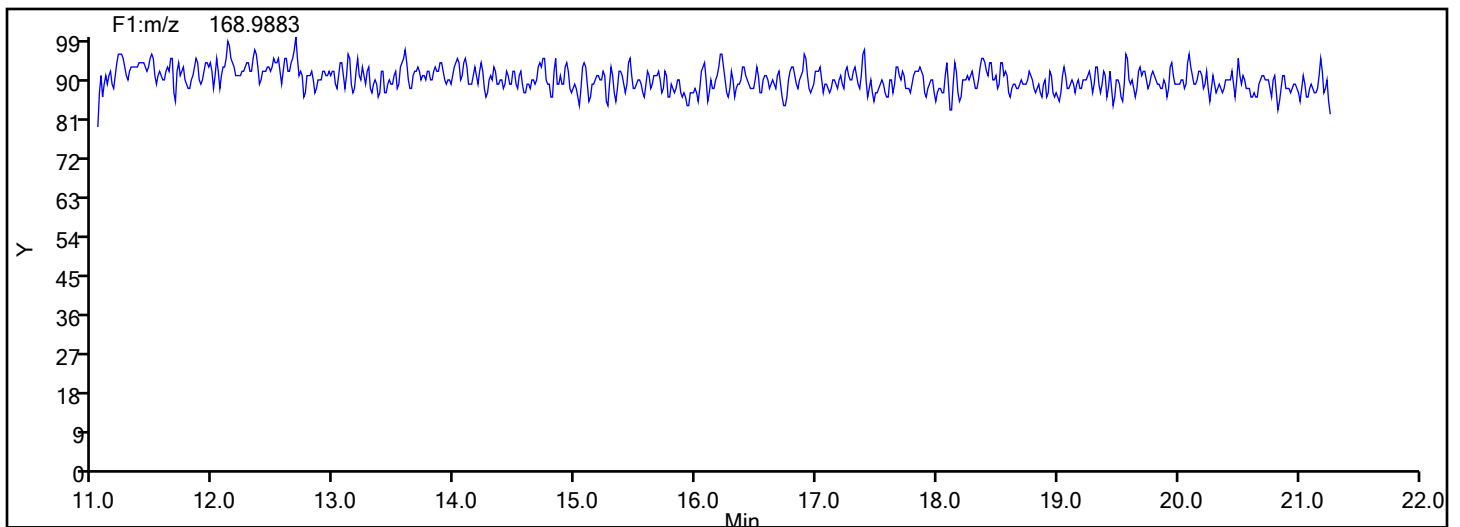
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Chrom Revision: 2.3 20-May-2024 22:00:34

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

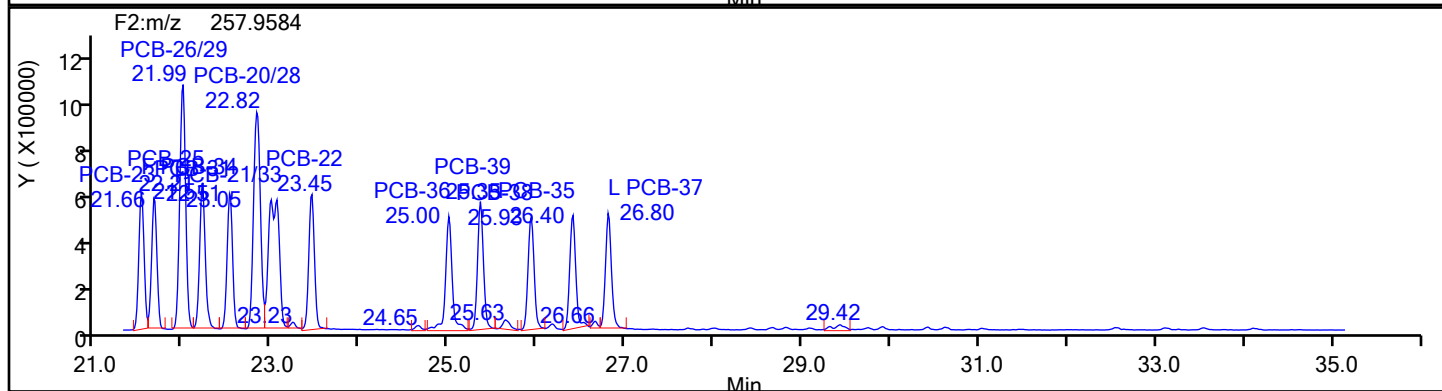
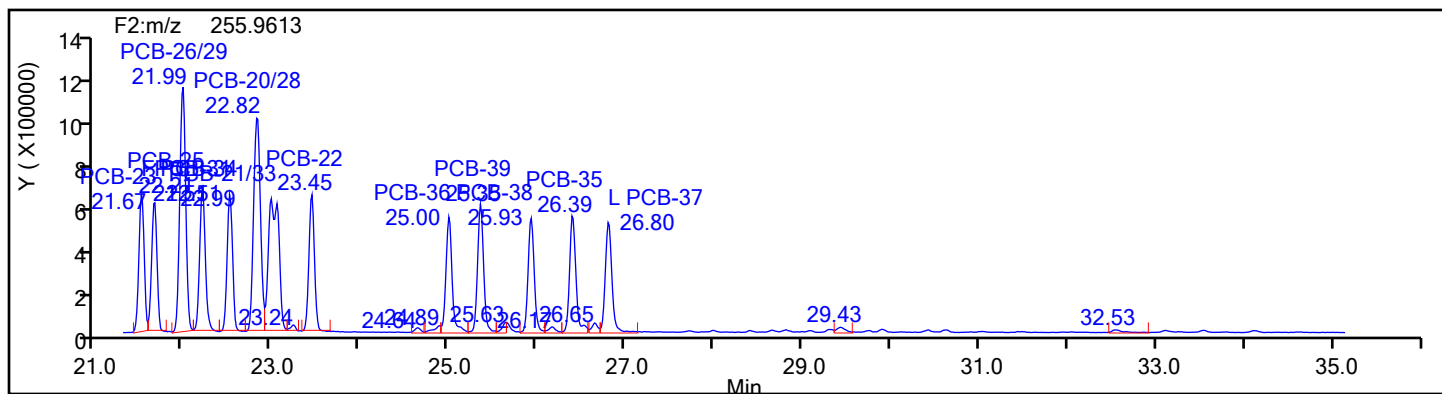
Worklist#: 87536

Sample Line#: 1

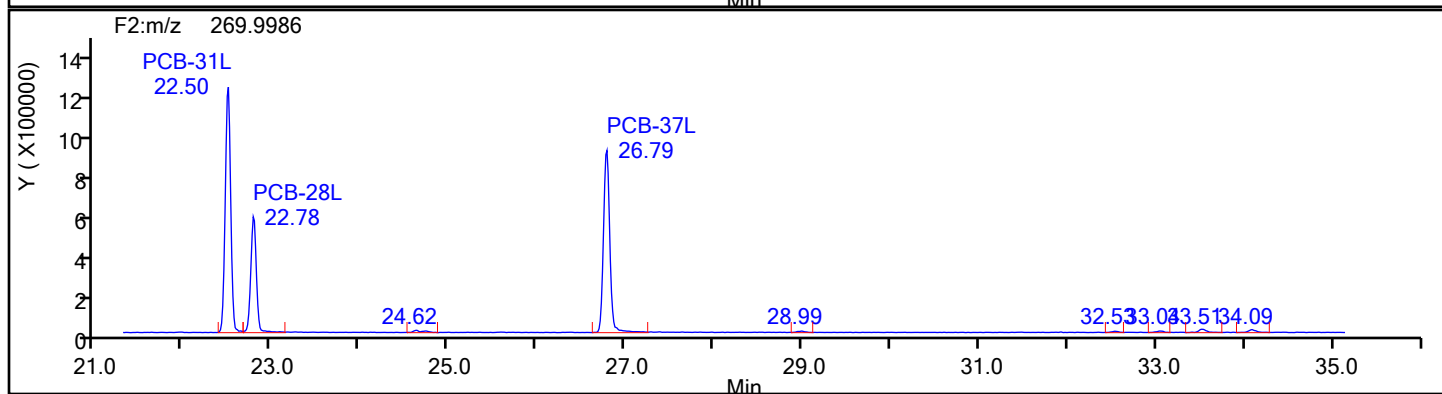
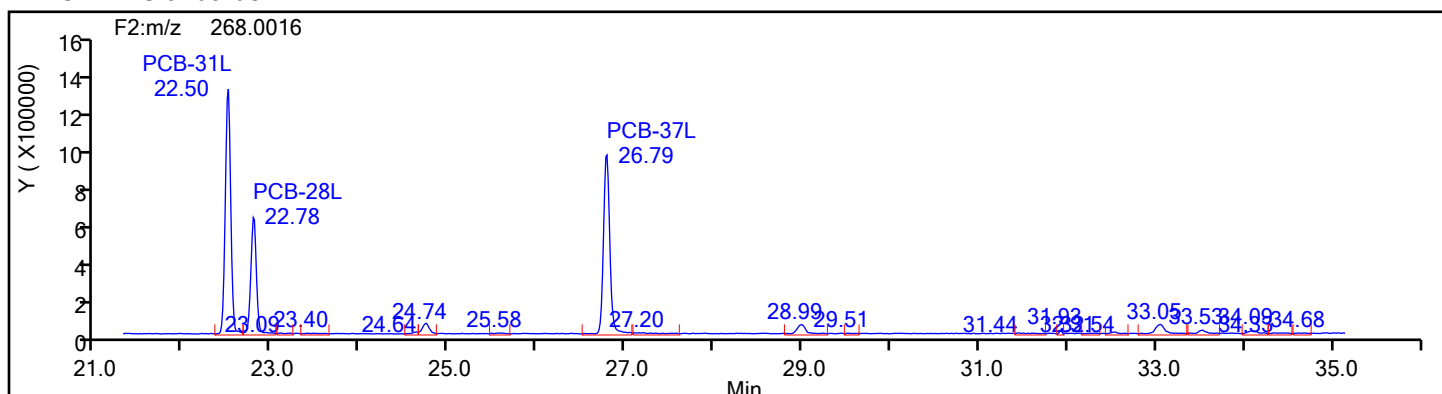
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

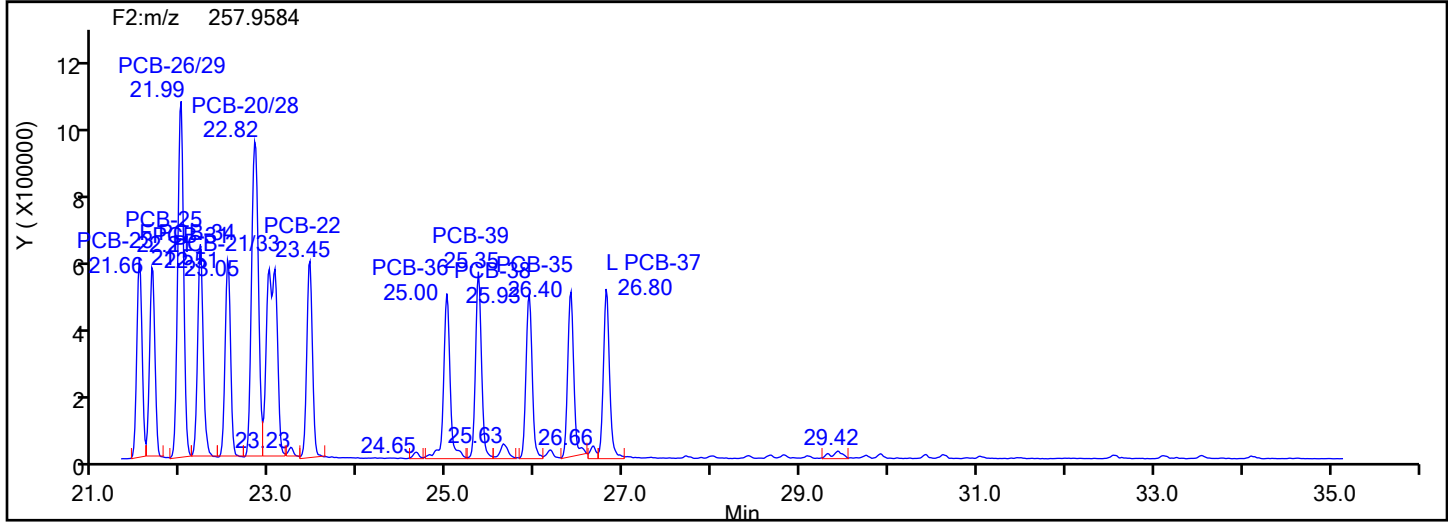
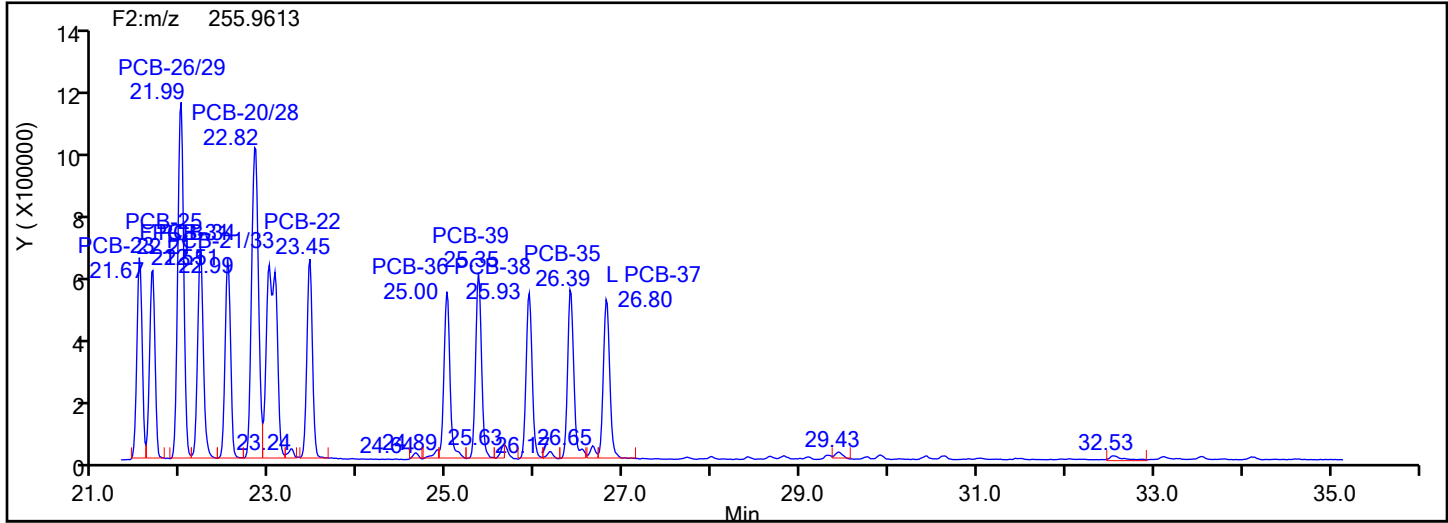
Worklist#: 87536

Sample Line#: 1

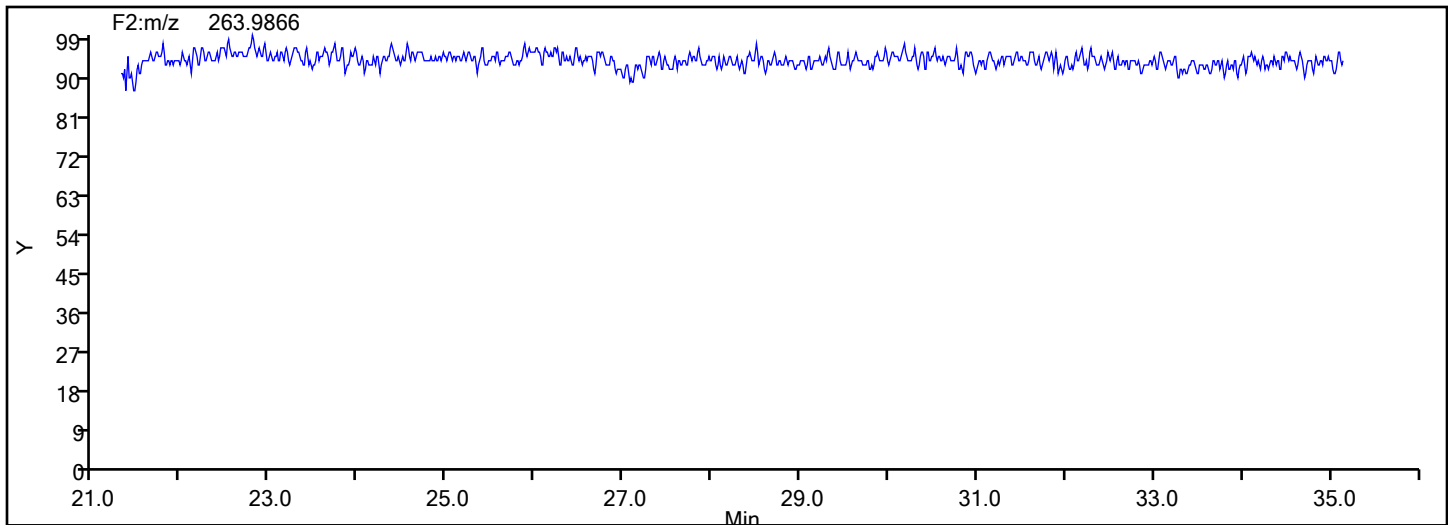
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

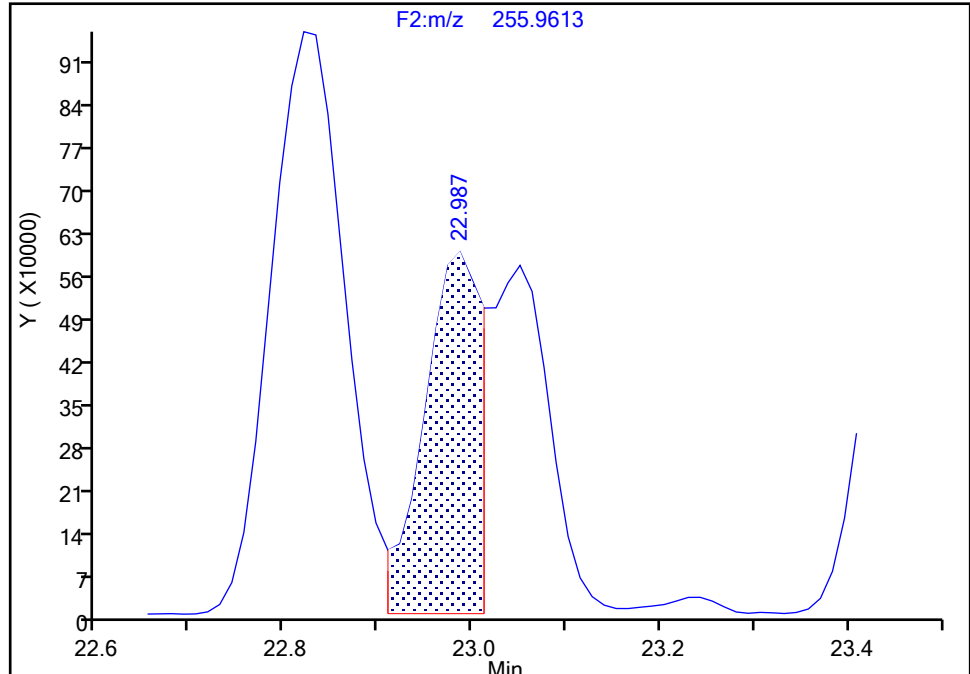
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

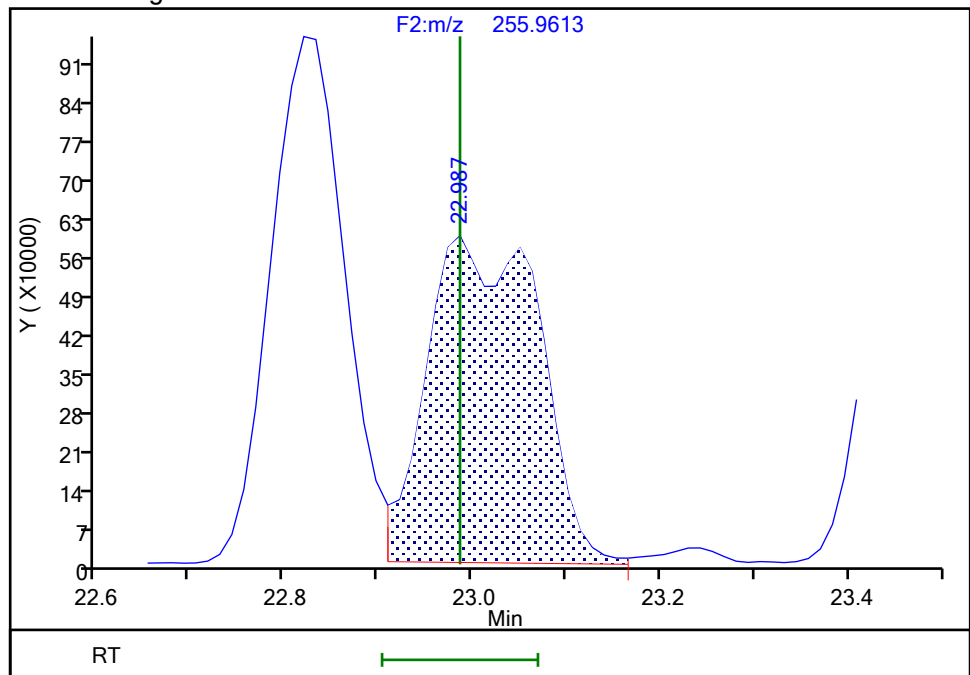
RT: 22.99
Area: 2373337
Amount: 47.557668
Amount Units: pg/ul

Processing Integration Results



RT: 22.99
Area: 4872676
Amount: 97.936743
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 22:57:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

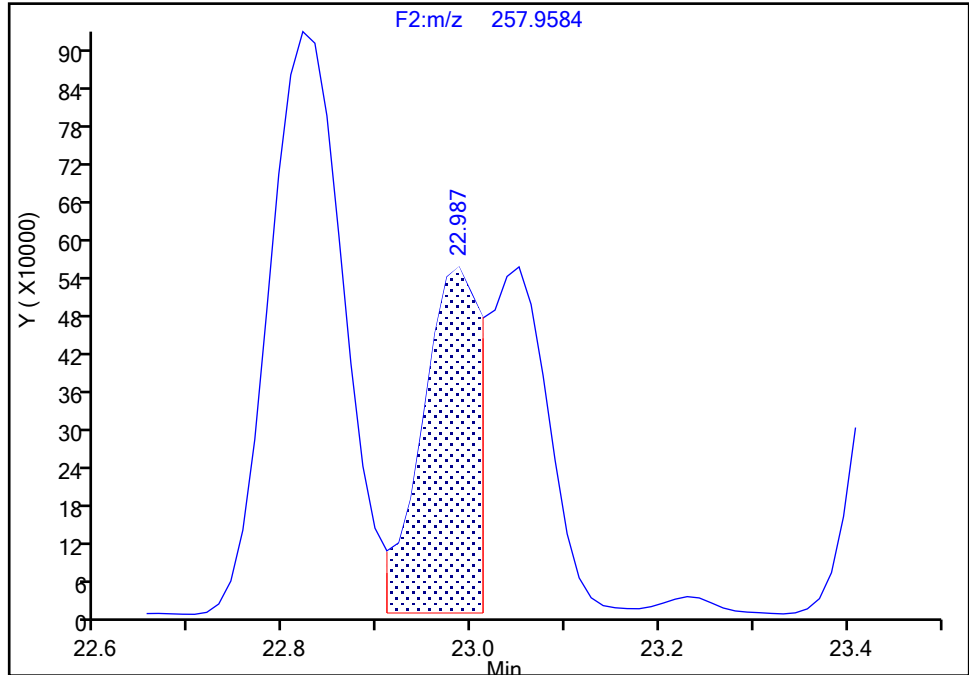
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

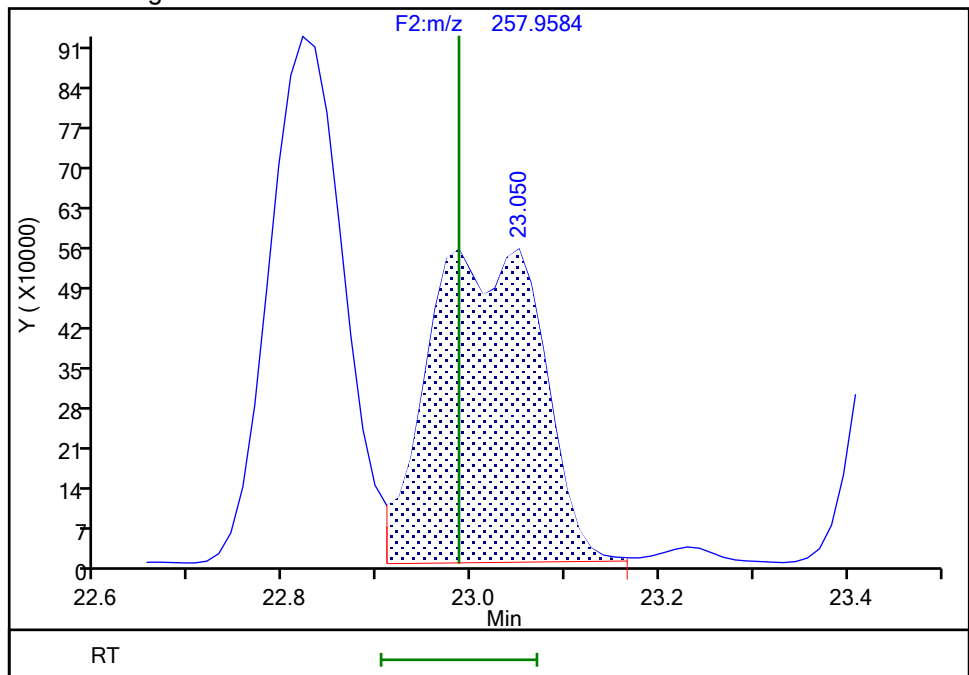
RT: 22.99
Area: 2241369
Amount: 47.557668
Amount Units: pg/ul

Processing Integration Results



RT: 23.05
Area: 4630508
Amount: 97.936743
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:03:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-0163
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

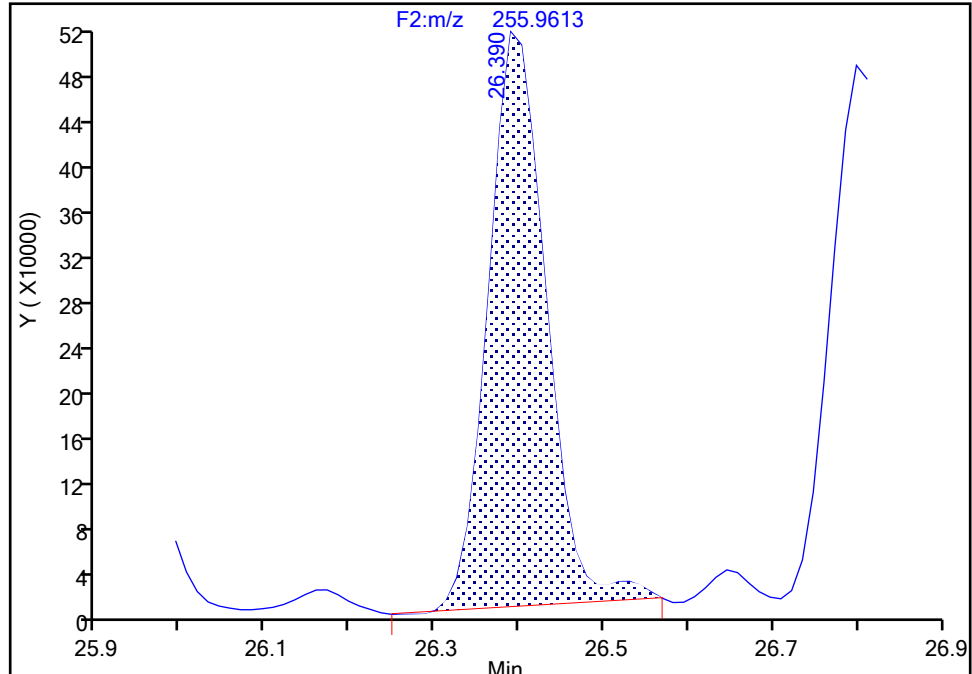
Detector F2(21.81 :35.54)

PCB-35, CAS: 37680-69-6

Signal: 1

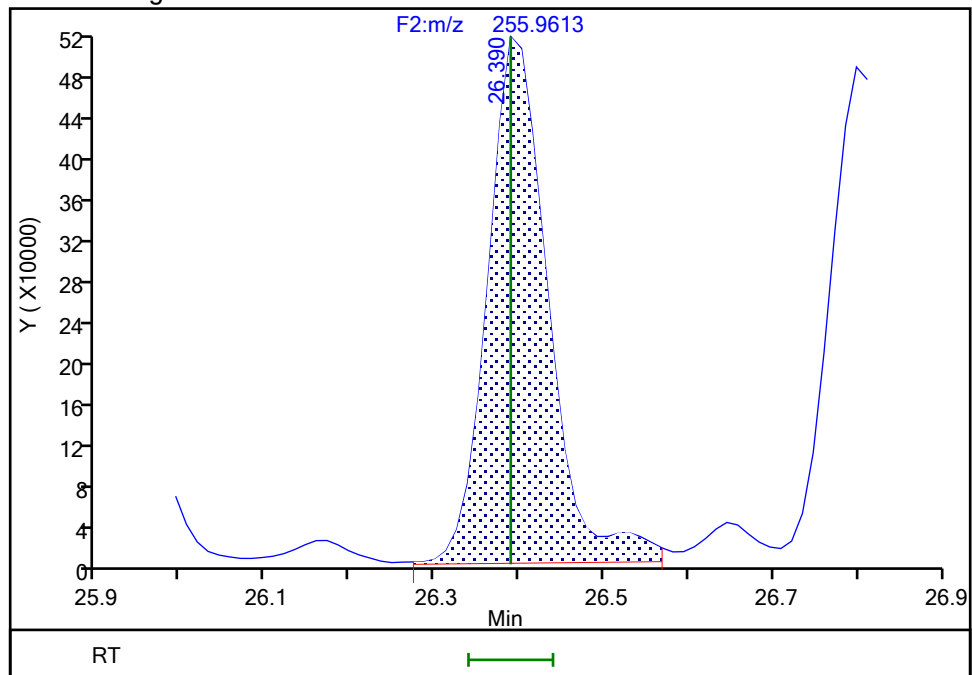
RT: 26.39
Area: 2424116
Amount: 46.313139
Amount Units: pg/ul

Processing Integration Results



RT: 26.39
Area: 2561842
Amount: 47.663270
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 22:58:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

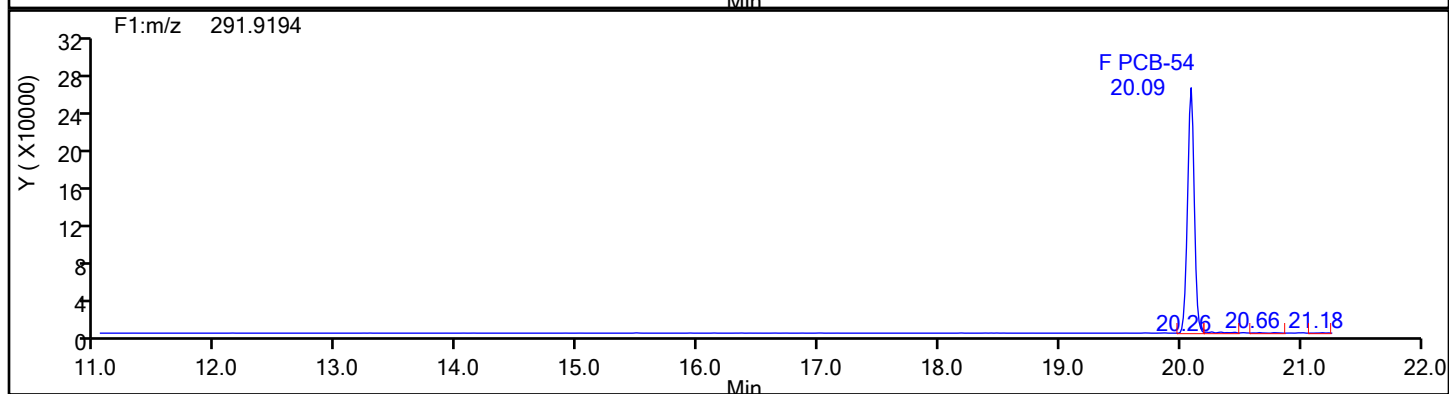
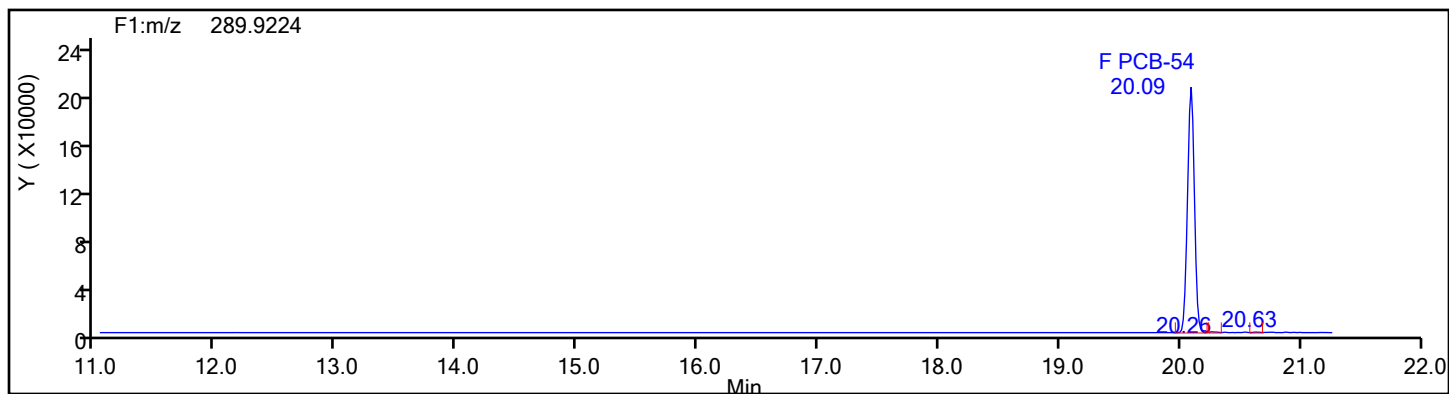
Worklist#: 87536

Sample Line#: 1

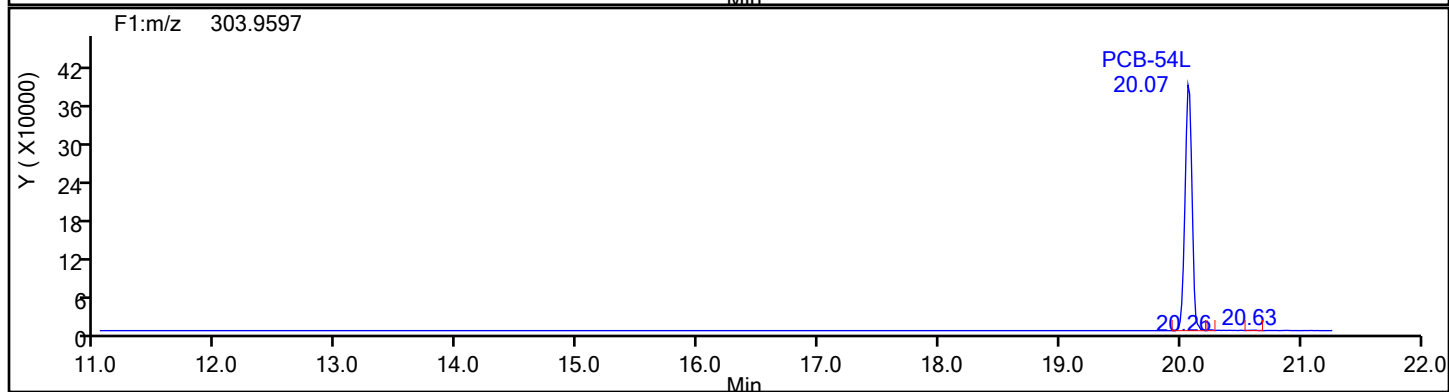
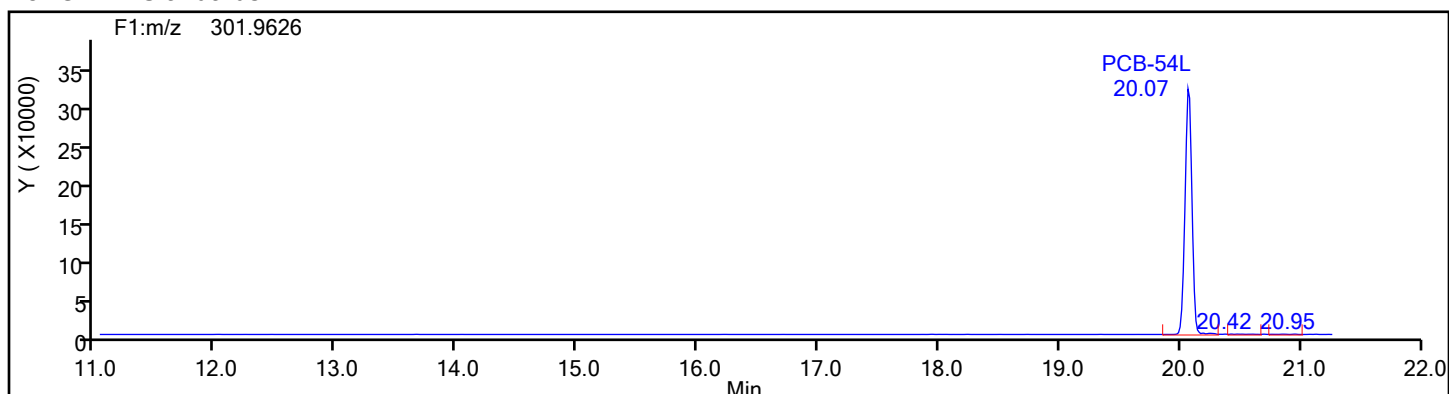
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

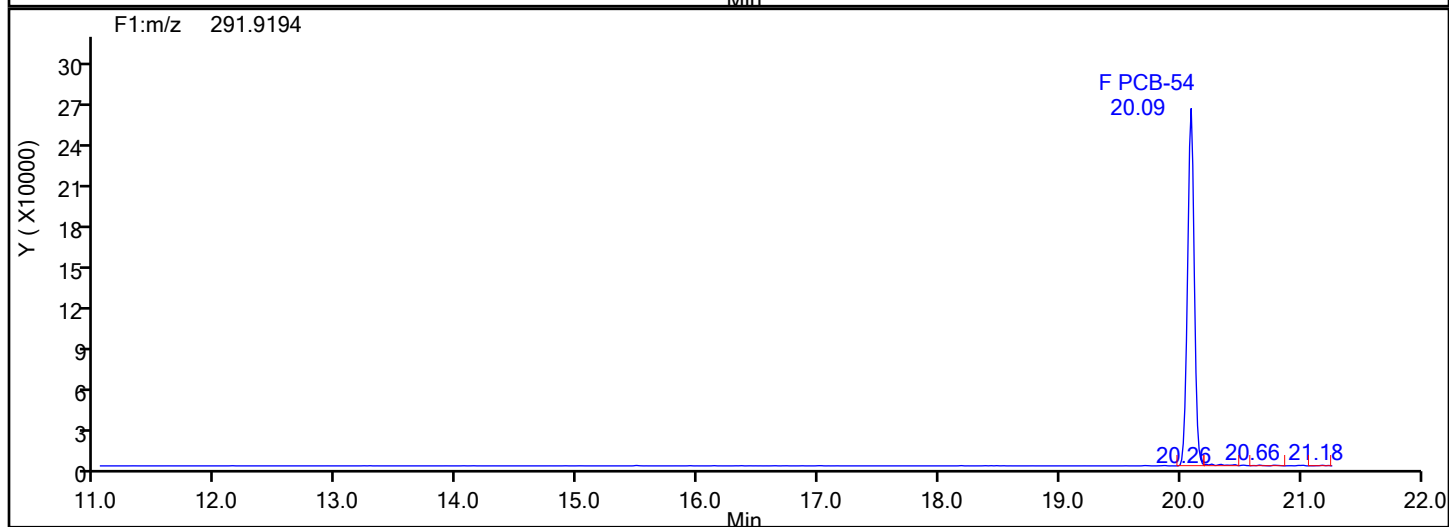
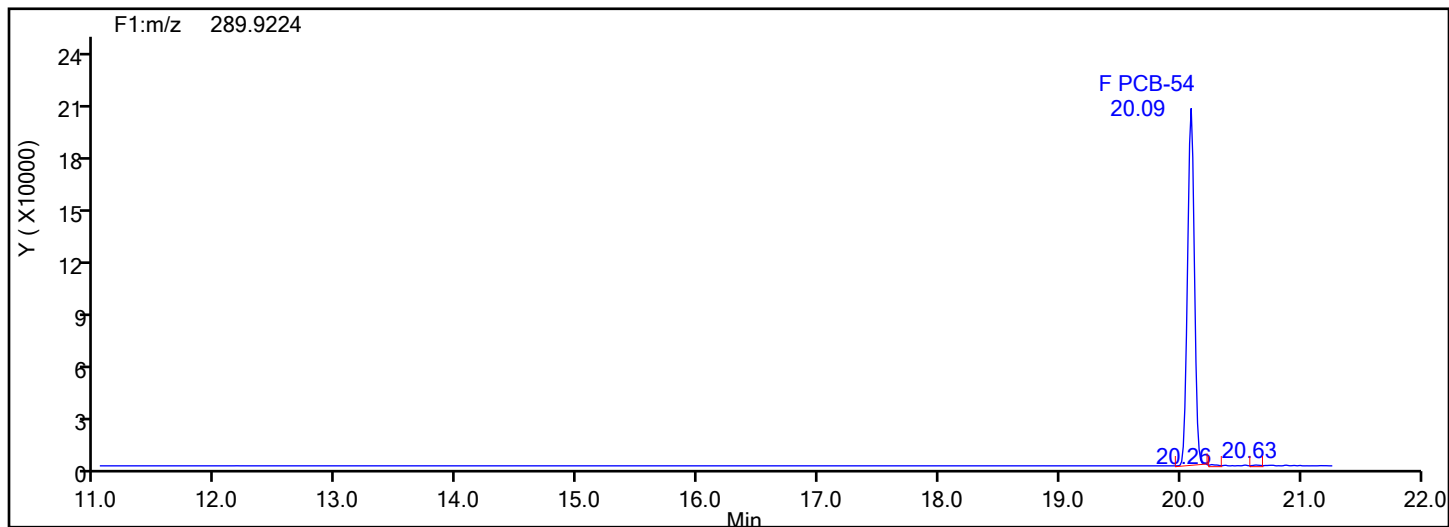
Worklist#: 87536

Sample Line#: 1

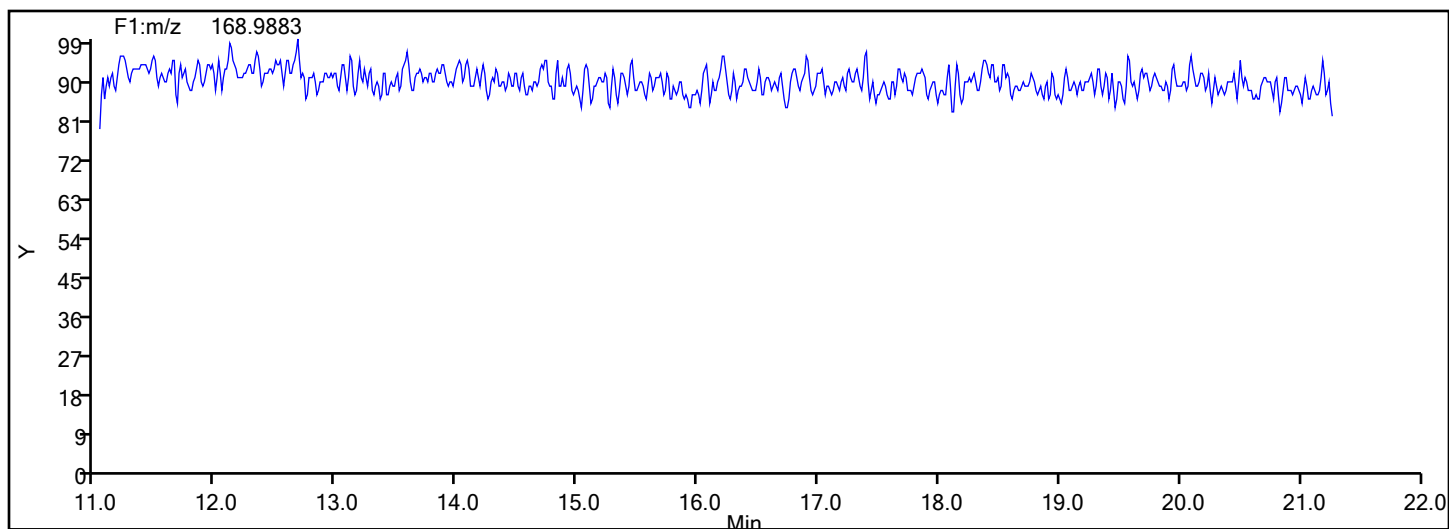
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Chrom Revision: 2.3 20-May-2024 22:00:34

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Vol: 1.0 ul

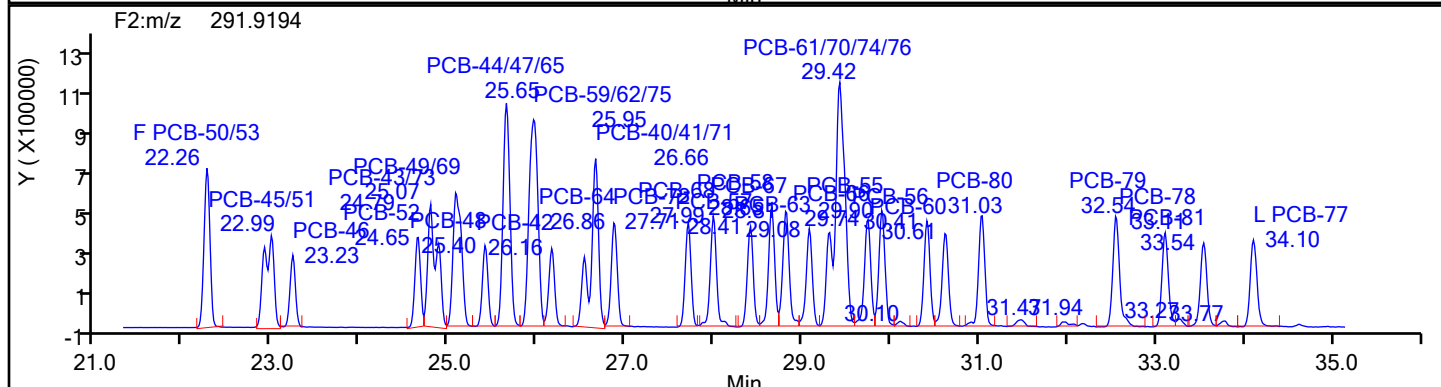
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

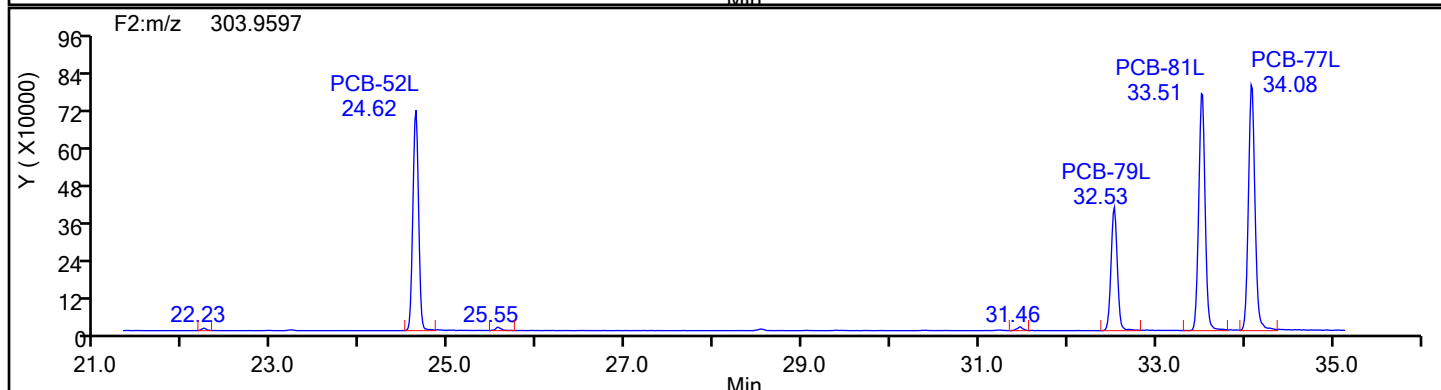
Sample Line#: 1

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

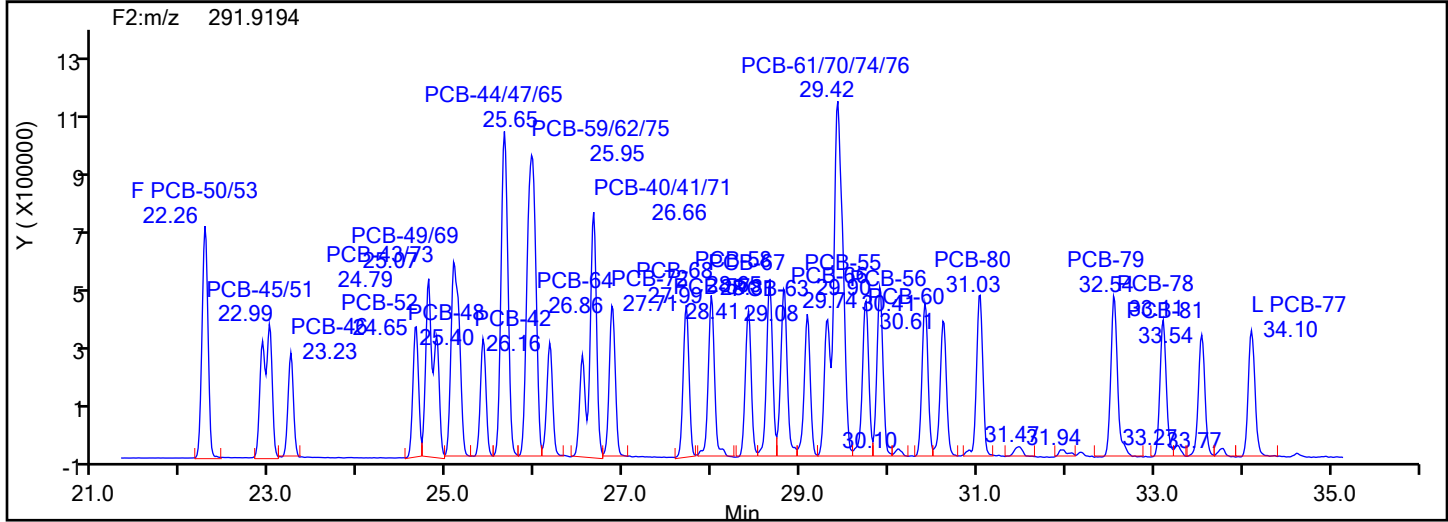
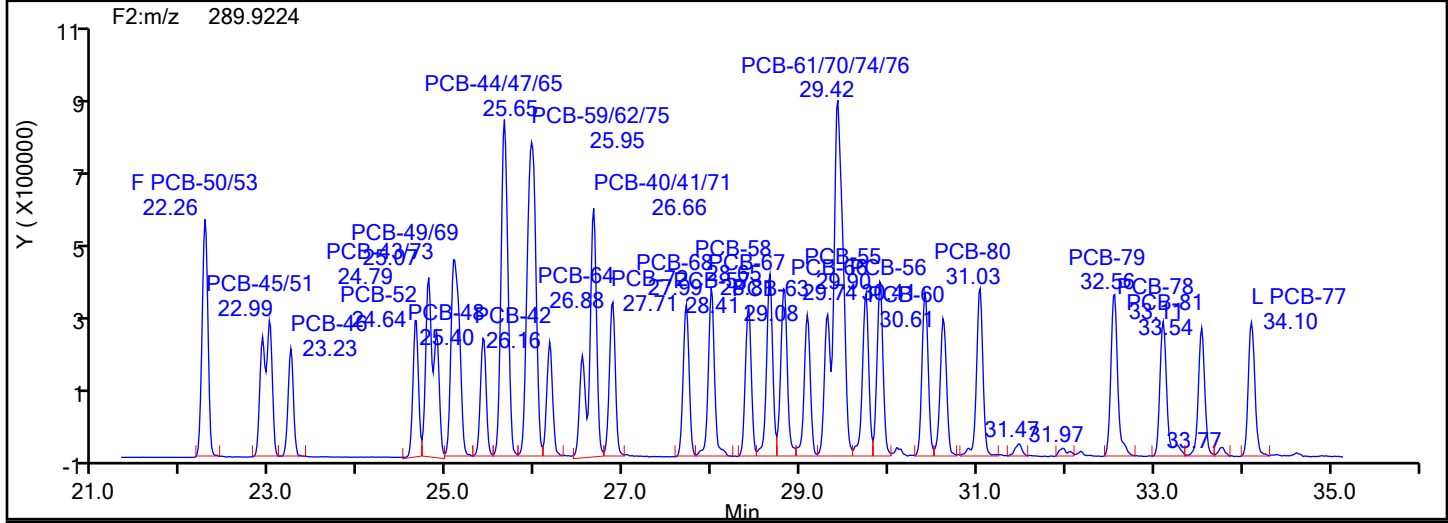
Worklist#: 87536

Sample Line#: 1

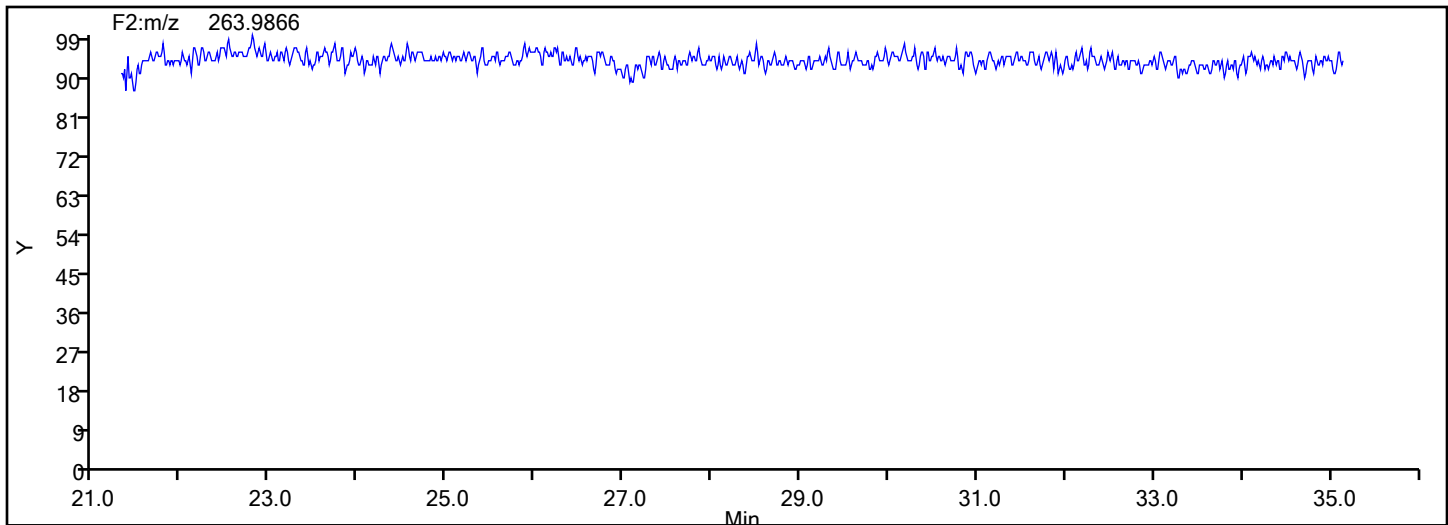
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

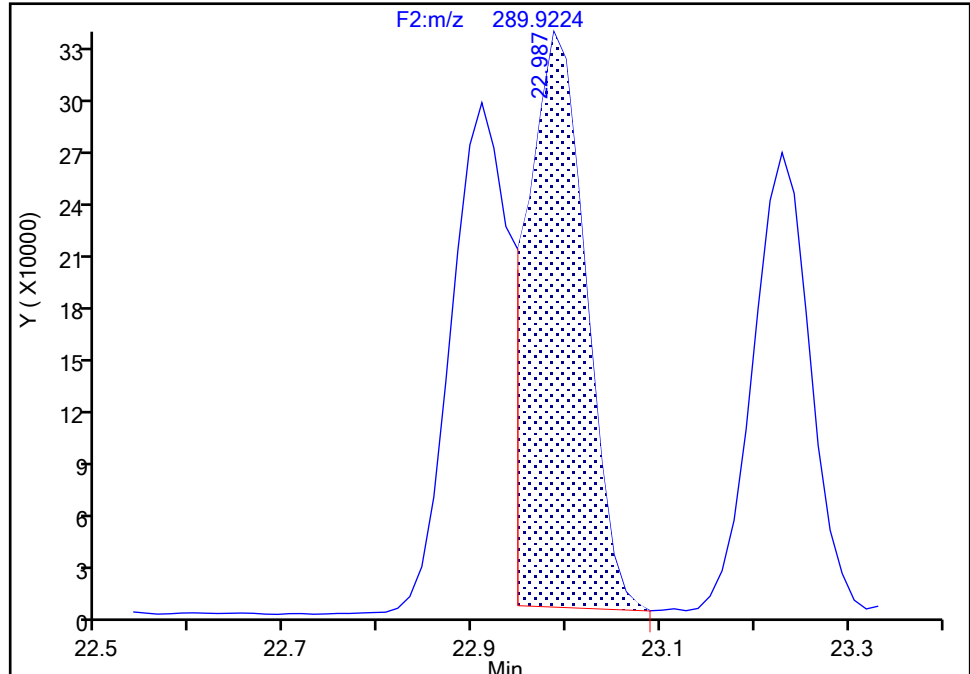
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

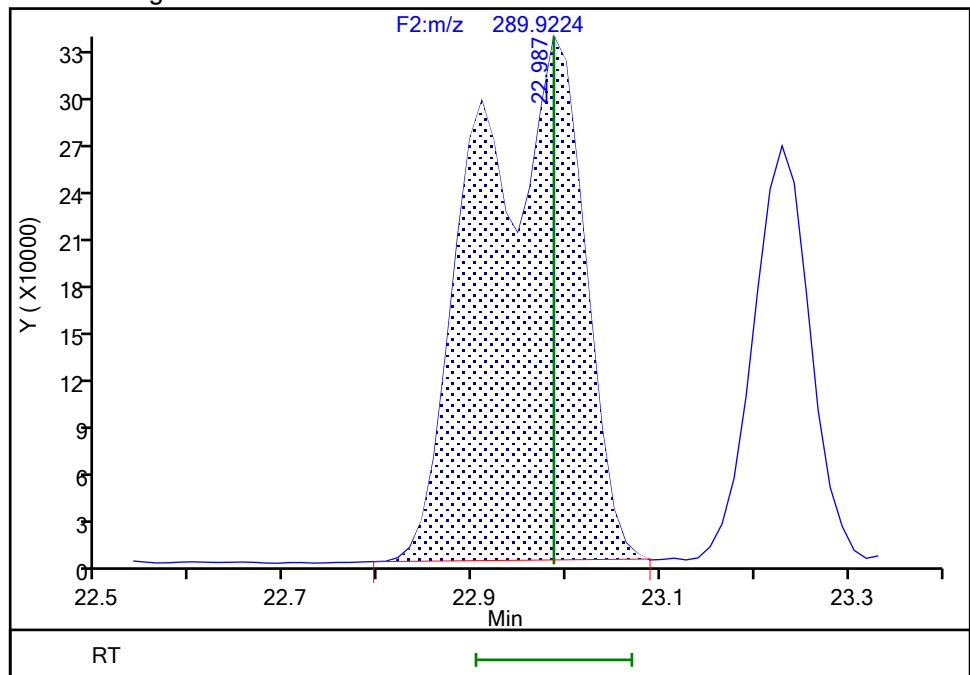
RT: 22.99
Area: 1391845
Amount: 51.651851
Amount Units: pg/ul

Processing Integration Results



RT: 22.99
Area: 2640154
Amount: 100.0279
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 22:58:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

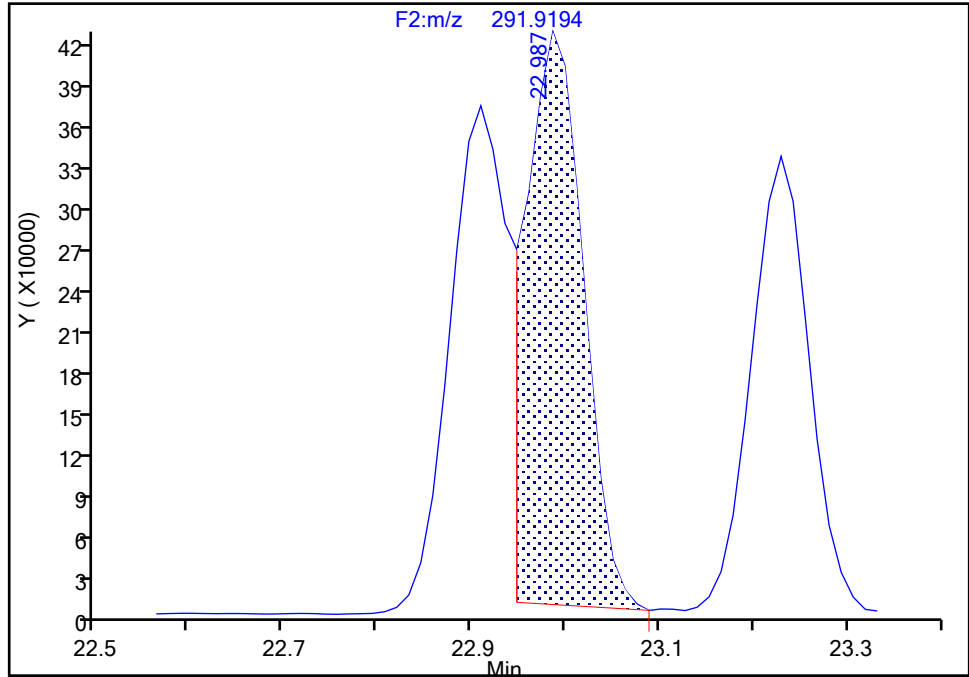
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

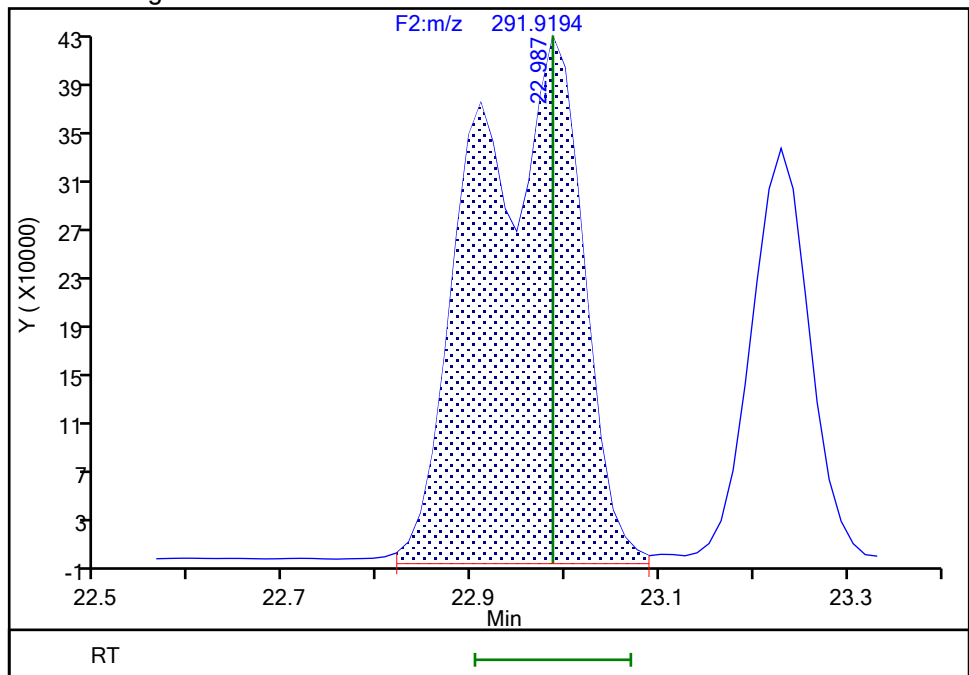
RT: 22.99
Area: 1729583
Amount: 51.651851
Amount Units: pg/ul

Processing Integration Results



RT: 22.99
Area: 3404736
Amount: 100.0279
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 22:58:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-01520-01170
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

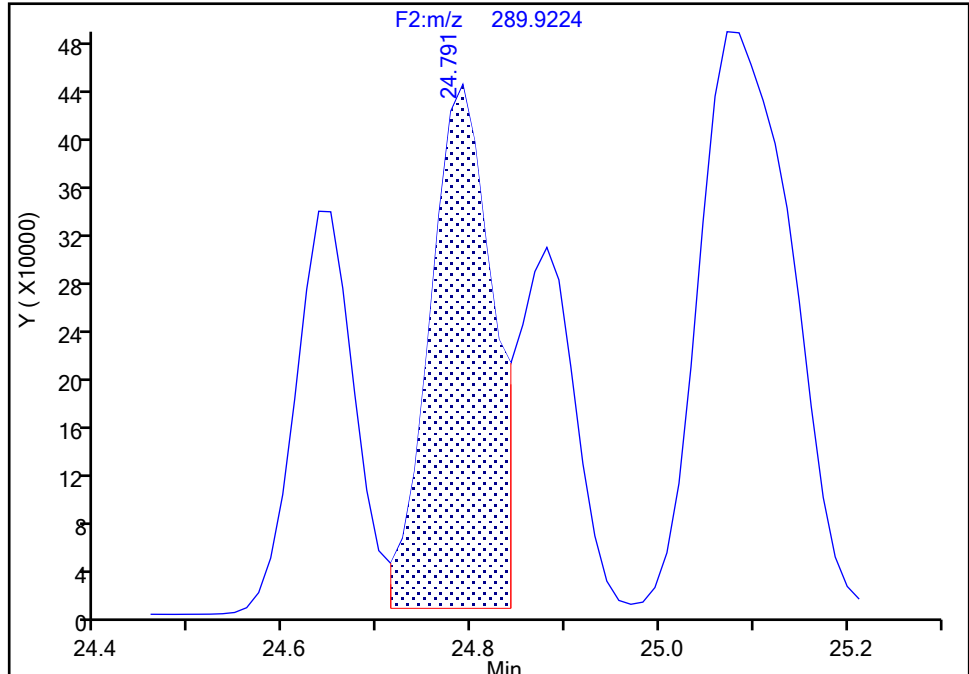
Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

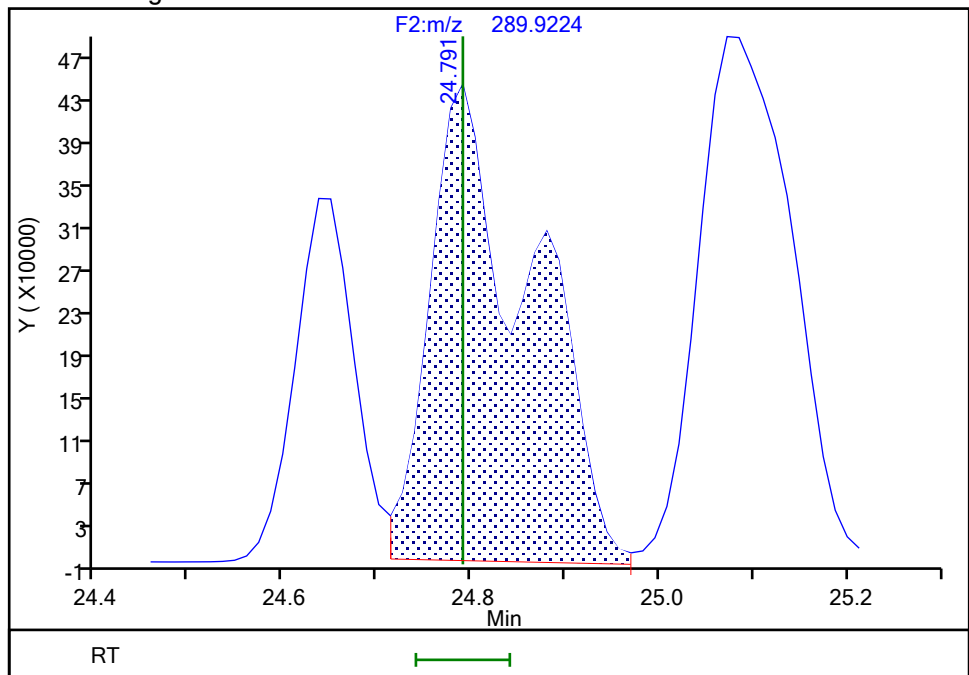
RT: 24.79
Area: 1988264
Amount: 59.370258
Amount Units: pg/ul

Processing Integration Results



RT: 24.79
Area: 3292147
Amount: 98.328152
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 22:59:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

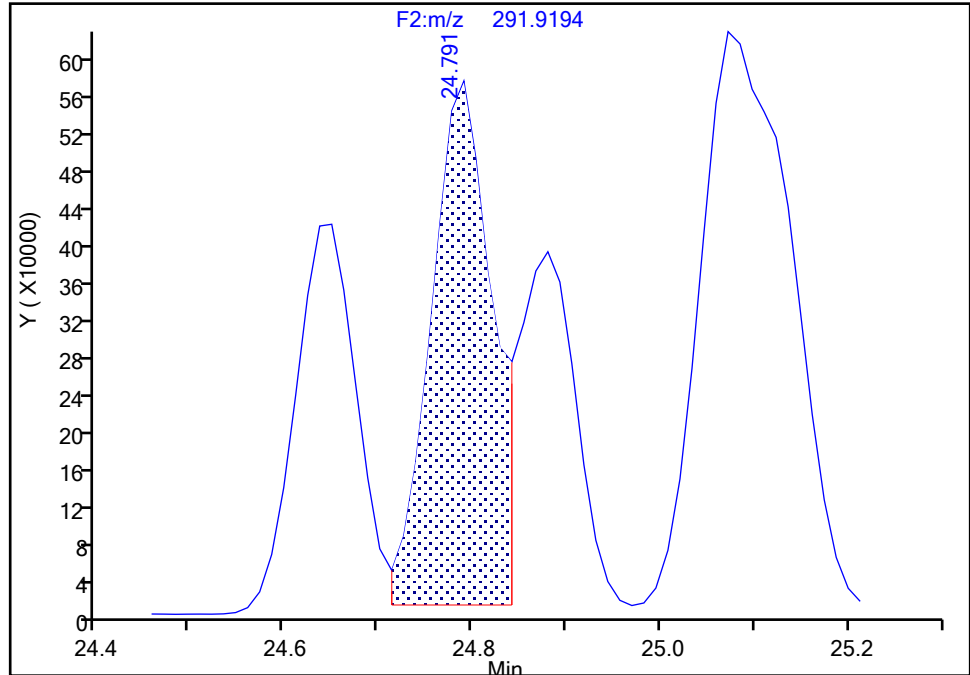
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

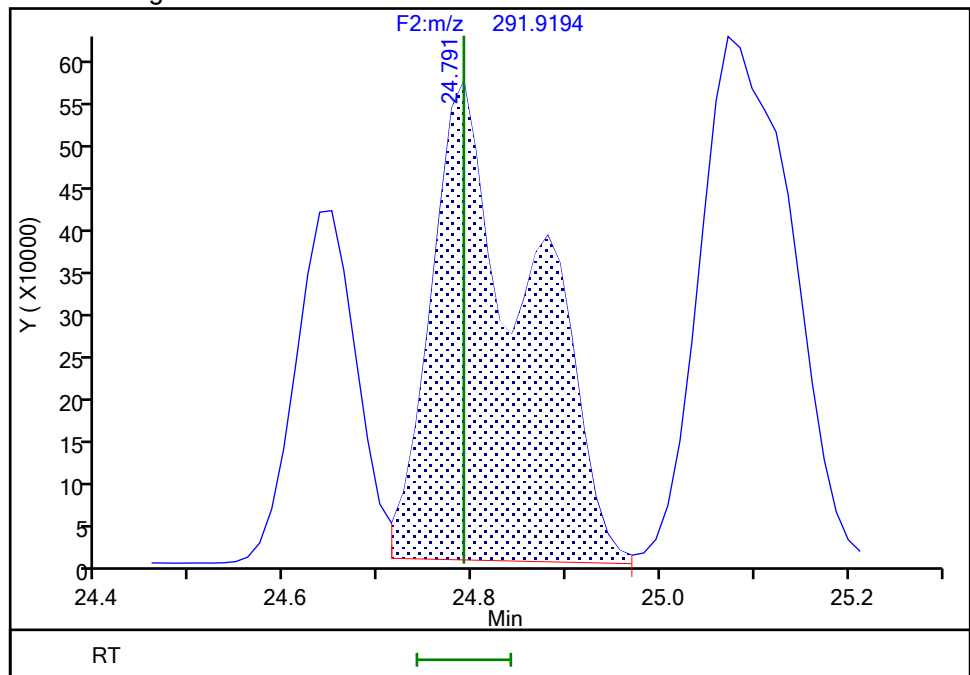
RT: 24.79
Area: 2497909
Amount: 59.370258
Amount Units: pg/ul

Processing Integration Results



RT: 24.79
Area: 4137787
Amount: 98.328152
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 22:59:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-015204172
9/6/2024
2:43:26 PM

Eurofins Knoxville

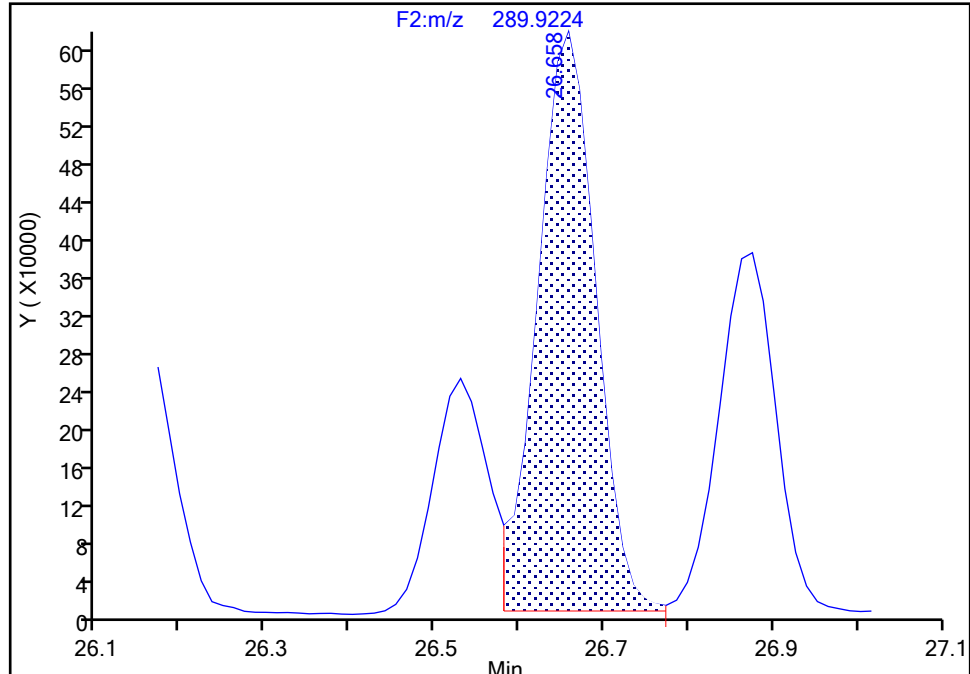
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

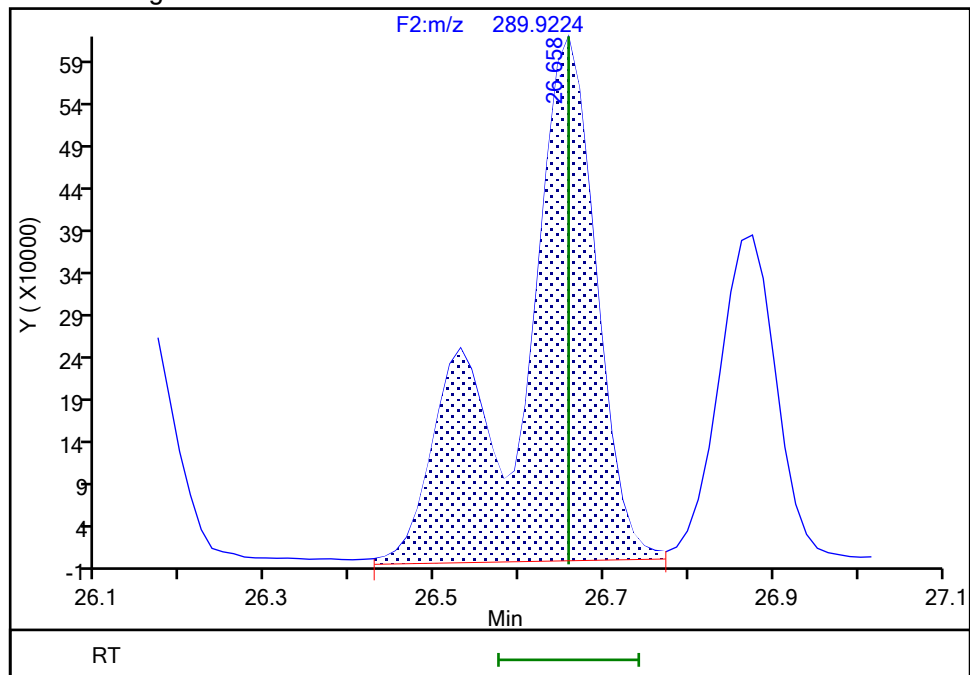
RT: 26.66
Area: 2887744
Amount: 101.1991
Amount Units: pg/ul

Processing Integration Results



RT: 26.66
Area: 4056147
Amount: 141.7086
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 22:59:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

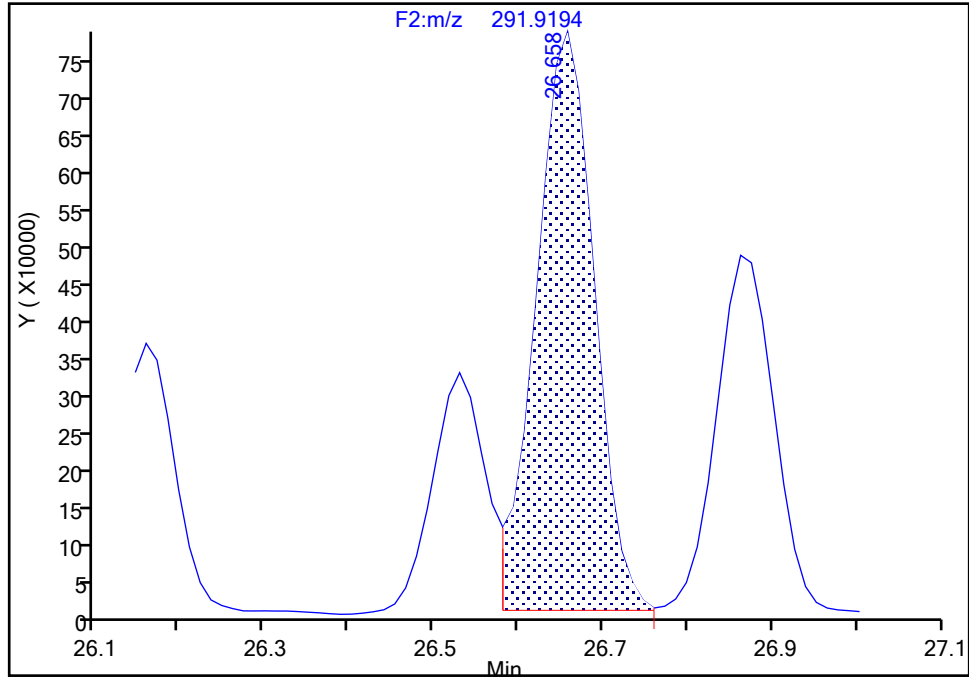
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

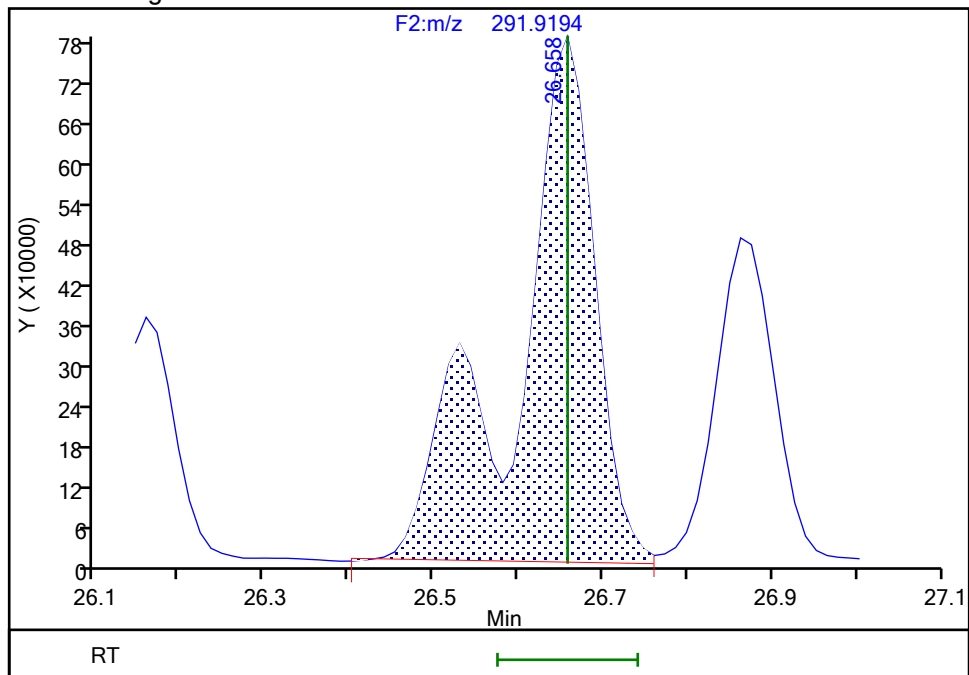
RT: 26.66
Area: 3671245
Amount: 101.1991
Amount Units: pg/ul

Processing Integration Results



RT: 26.66
Area: 5128373
Amount: 141.7086
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 22:59:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-01520-01174
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

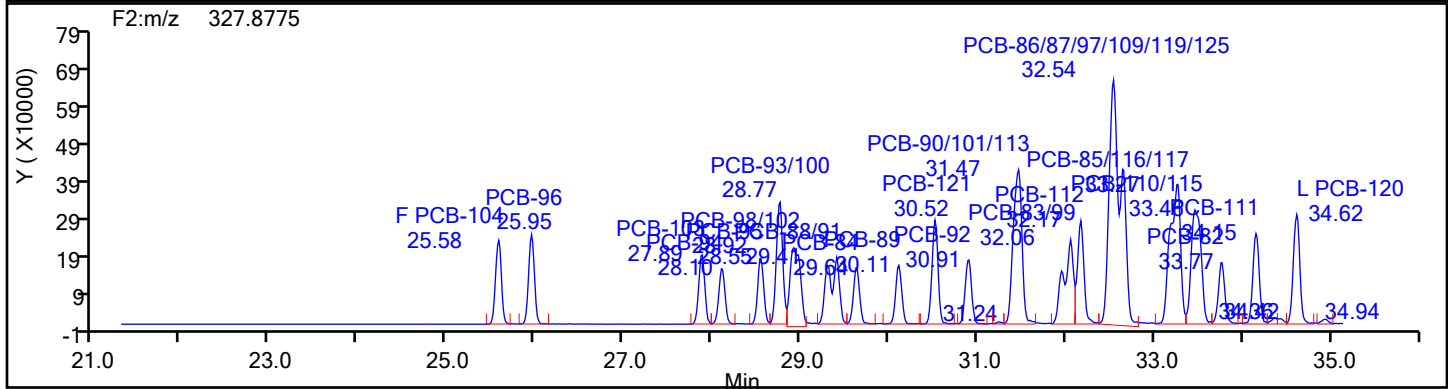
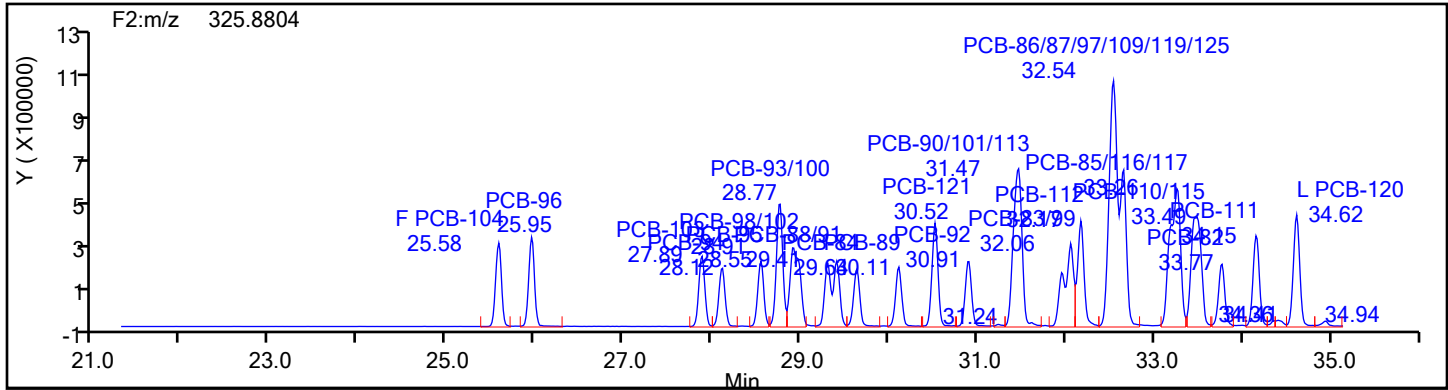
Worklist#: 87536

Sample Line#: 1

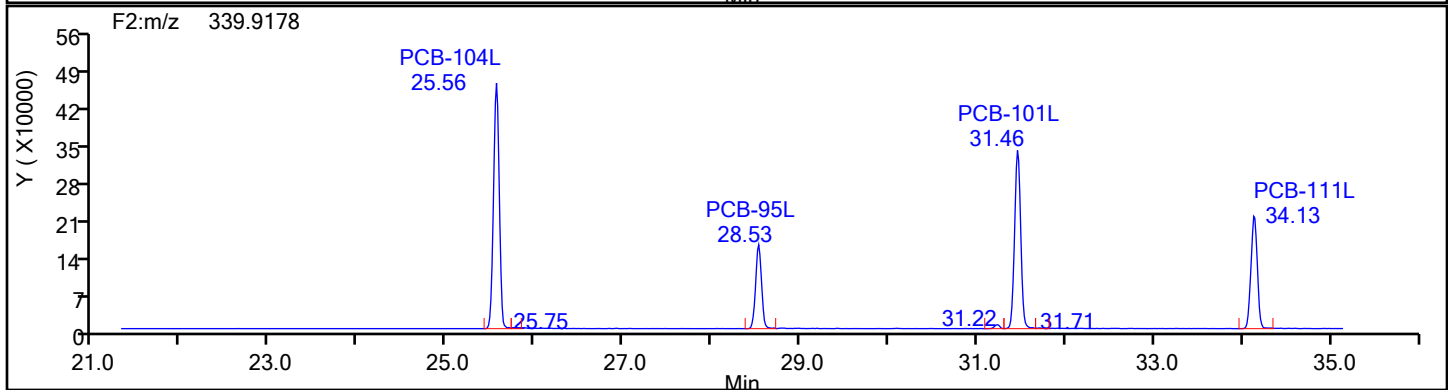
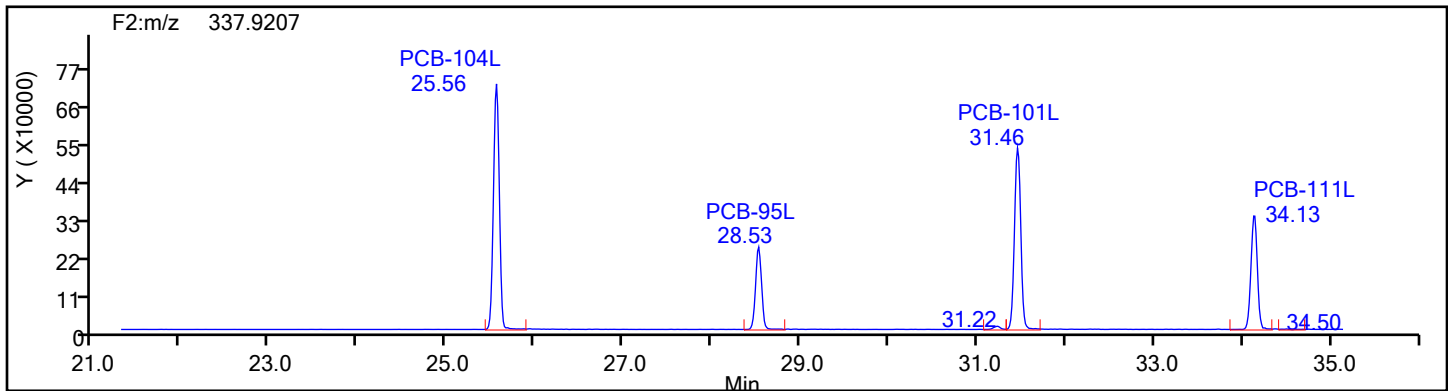
Column Type: SPB-Octyl

Column Dia: 0.25 mm

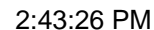
PePCB F2



PePCB F2 Standards



Column Dia: 0.25 mm



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

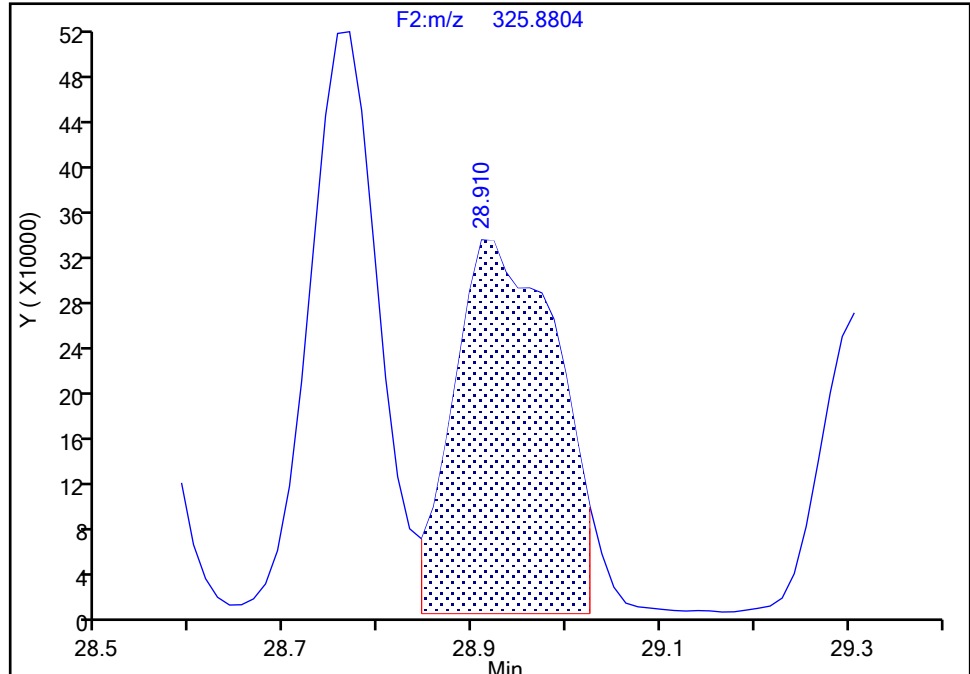
Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 1

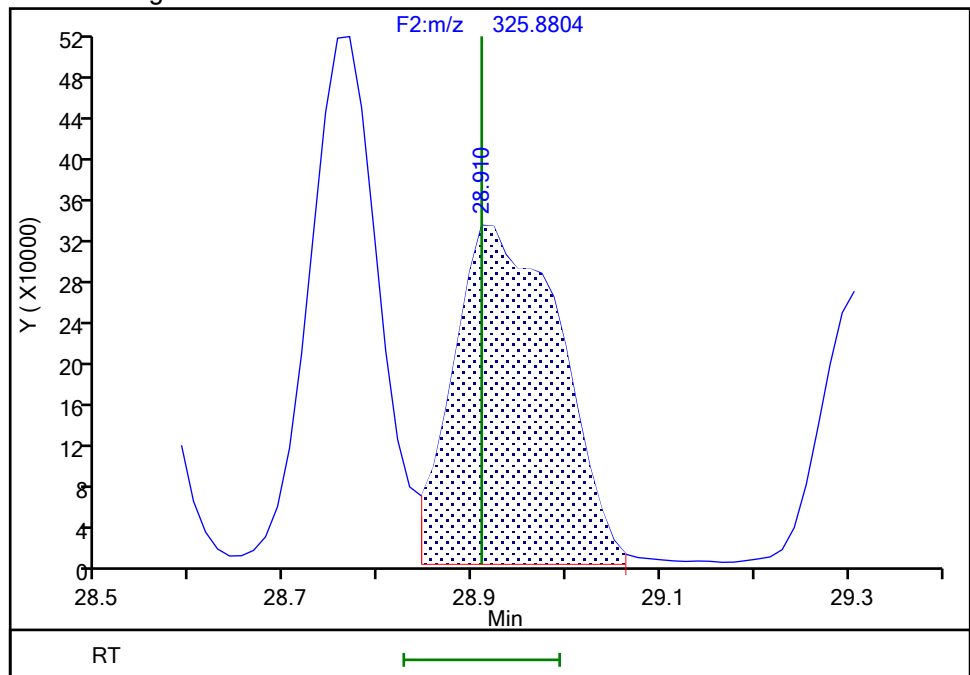
RT: 28.91
Area: 2518422
Amount: 92.582681
Amount Units: pg/ul

Processing Integration Results



RT: 28.91
Area: 2603207
Amount: 96.522563
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:00:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

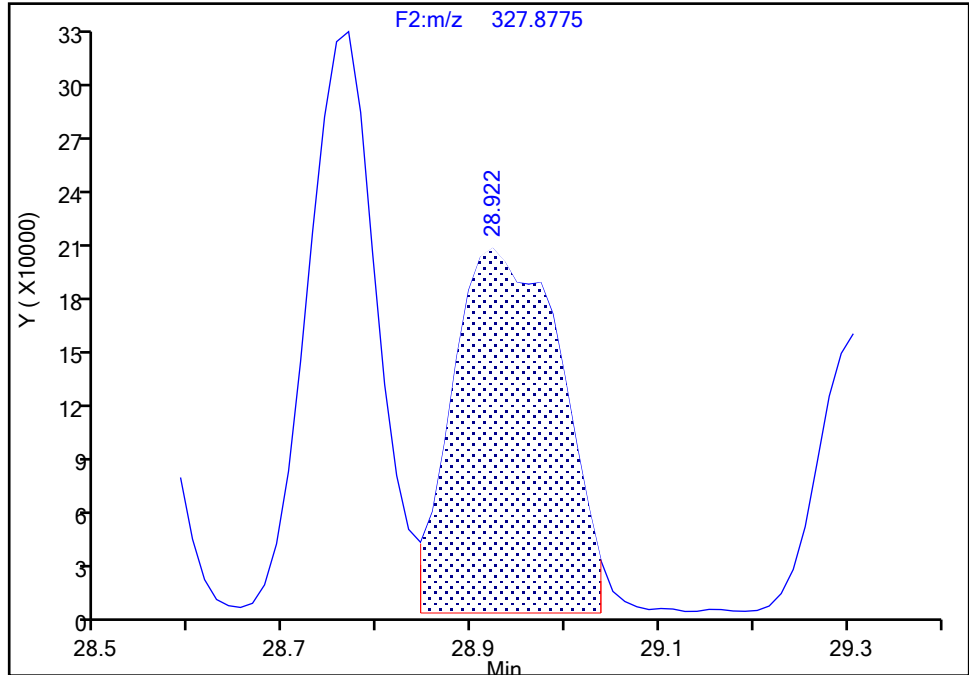
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 2

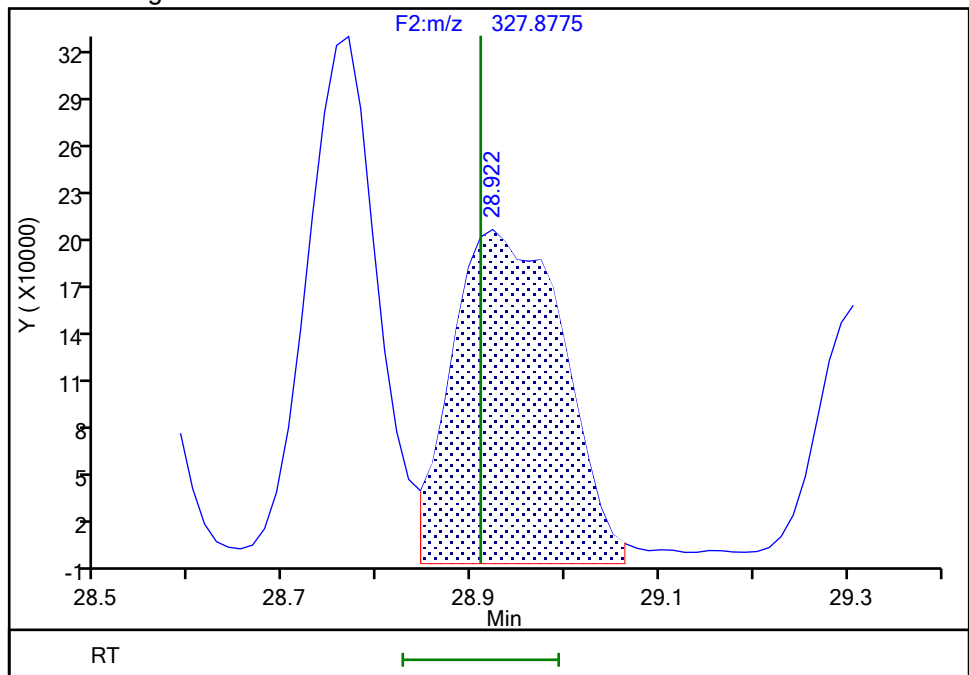
RT: 28.92
Area: 1630111
Amount: 92.582681
Amount Units: pg/ul

Processing Integration Results



RT: 28.92
Area: 1721868
Amount: 96.522563
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:00:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-01520-0178
9/6/2024
2:43:26 PM

Eurofins Knoxville

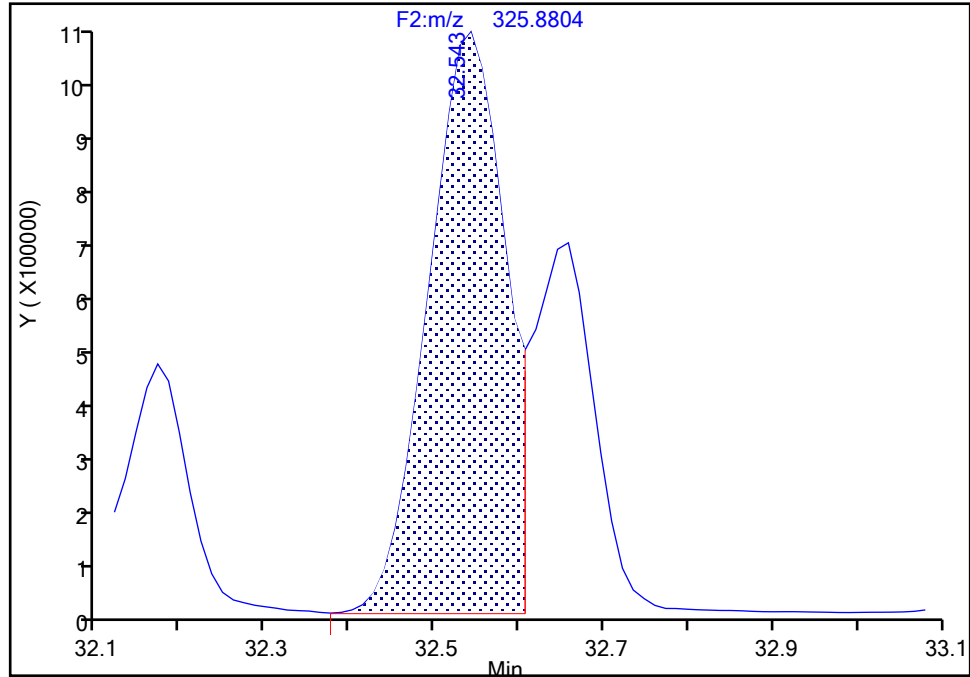
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

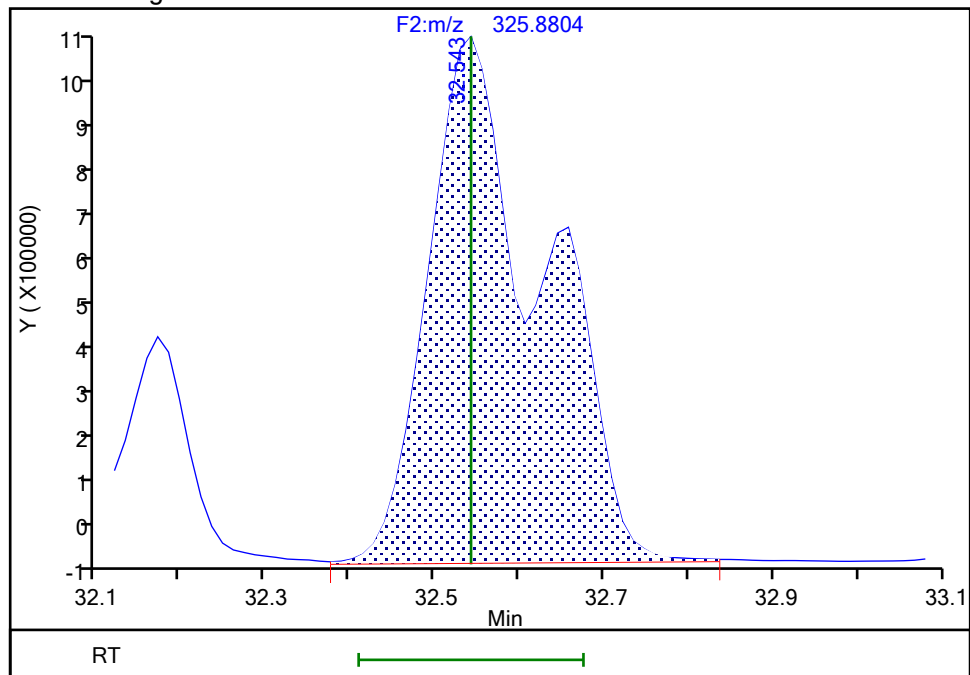
RT: 32.54
Area: 6499232
Amount: 186.7267
Amount Units: pg/ul

Processing Integration Results



RT: 32.54
Area: 9788706
Amount: 282.3041
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:00:42 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

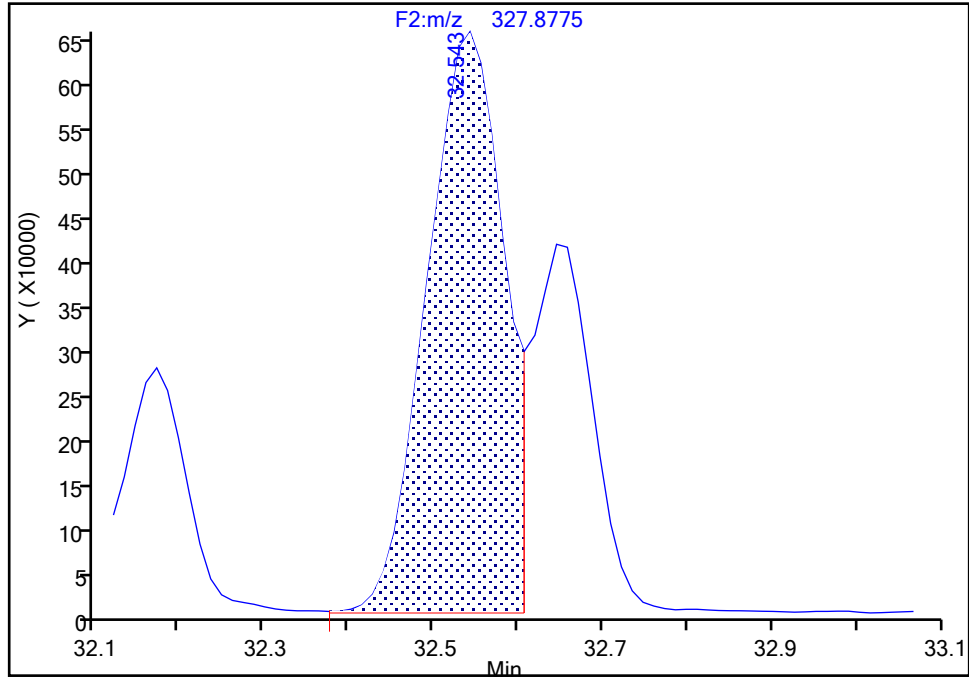
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

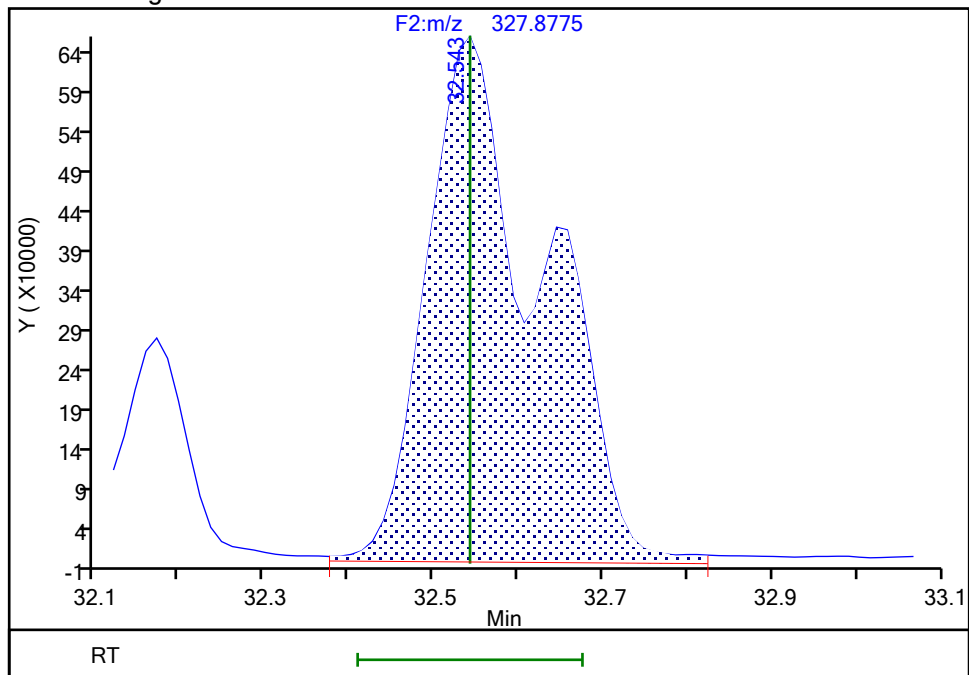
RT: 32.54
Area: 4107177
Amount: 186.7267
Amount Units: pg/ul

Processing Integration Results



RT: 32.54
Area: 6246670
Amount: 282.3041
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:00:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-Gen2-2024180
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

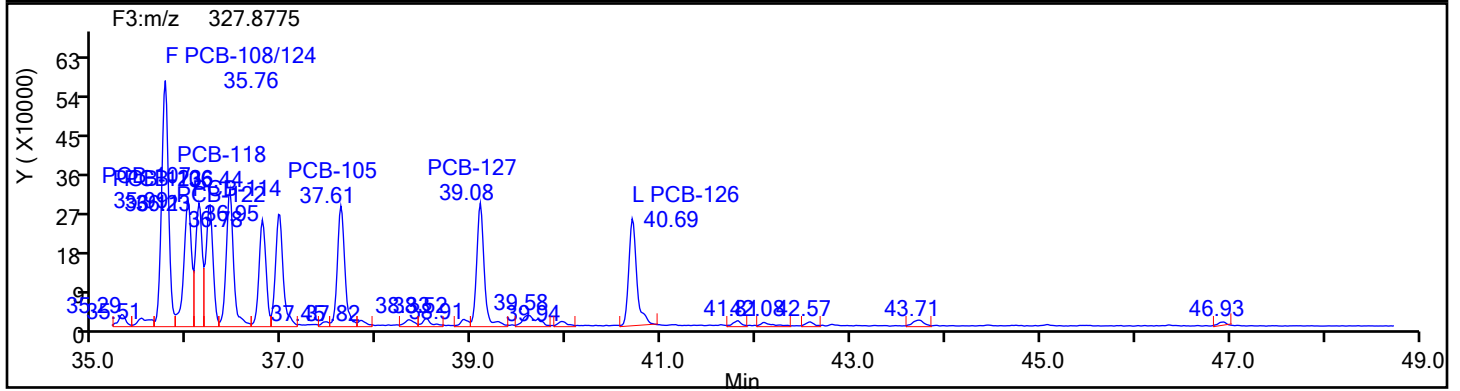
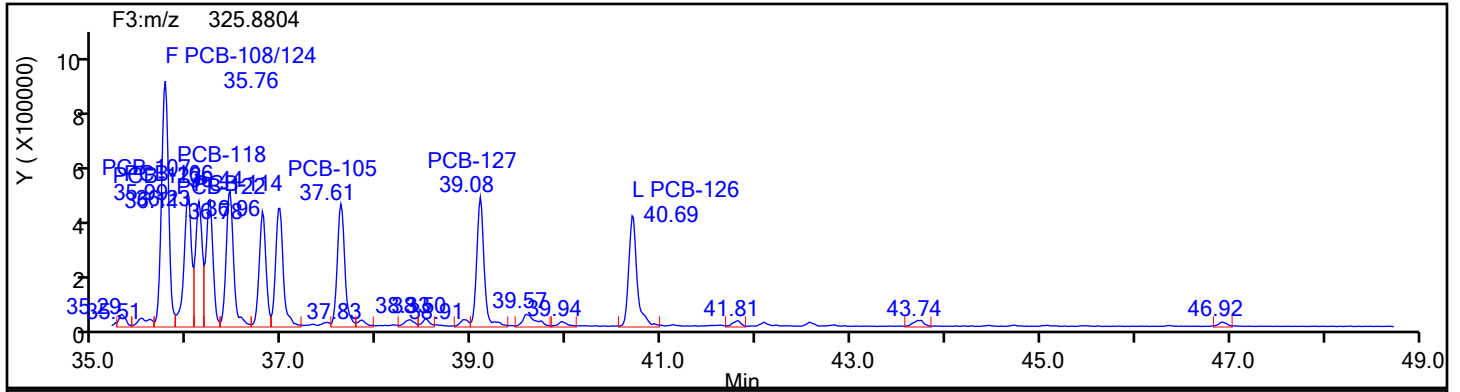
Worklist#: 87536

Sample Line#: 1

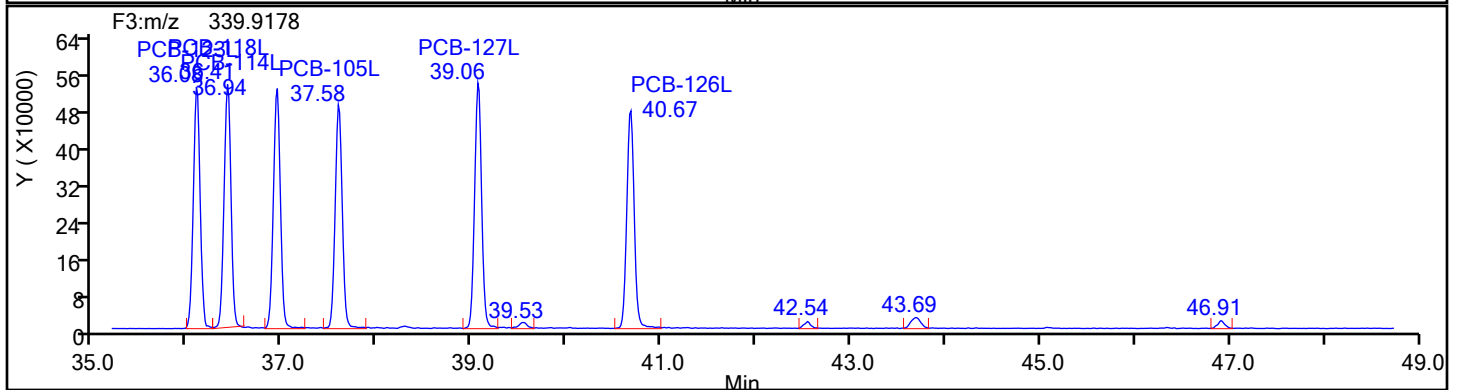
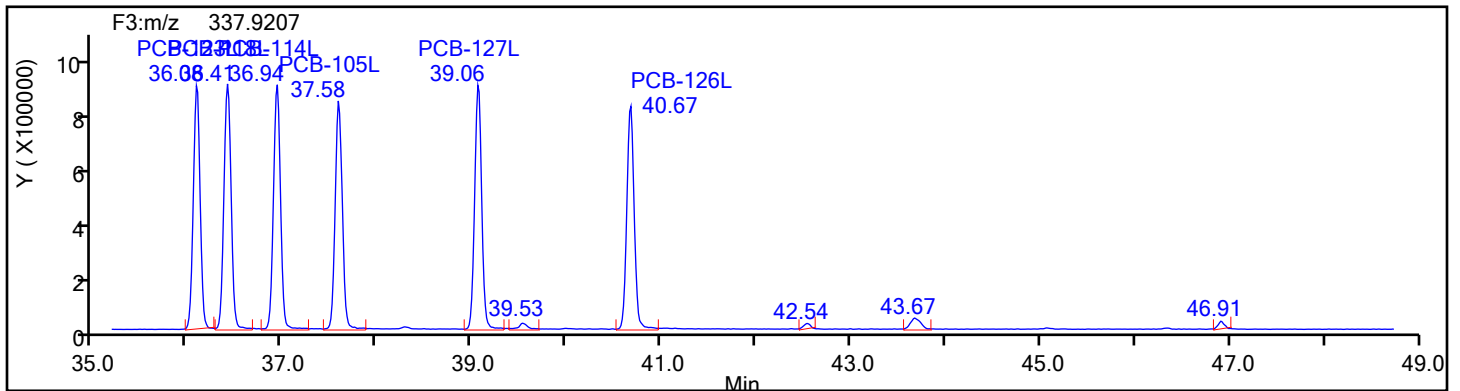
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

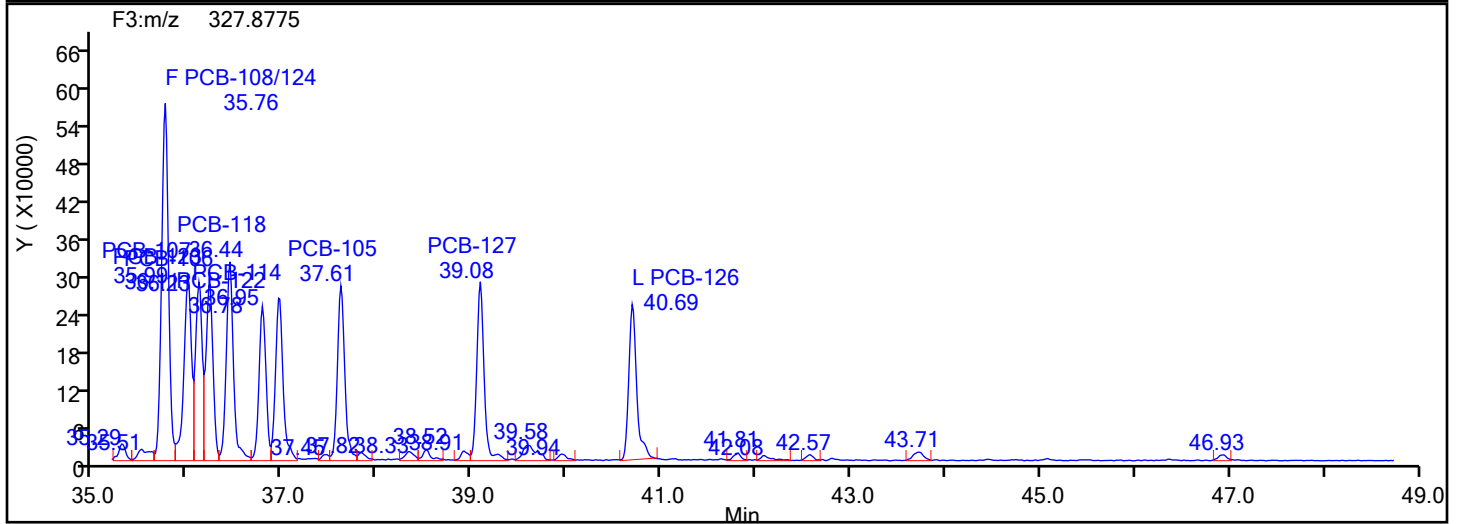
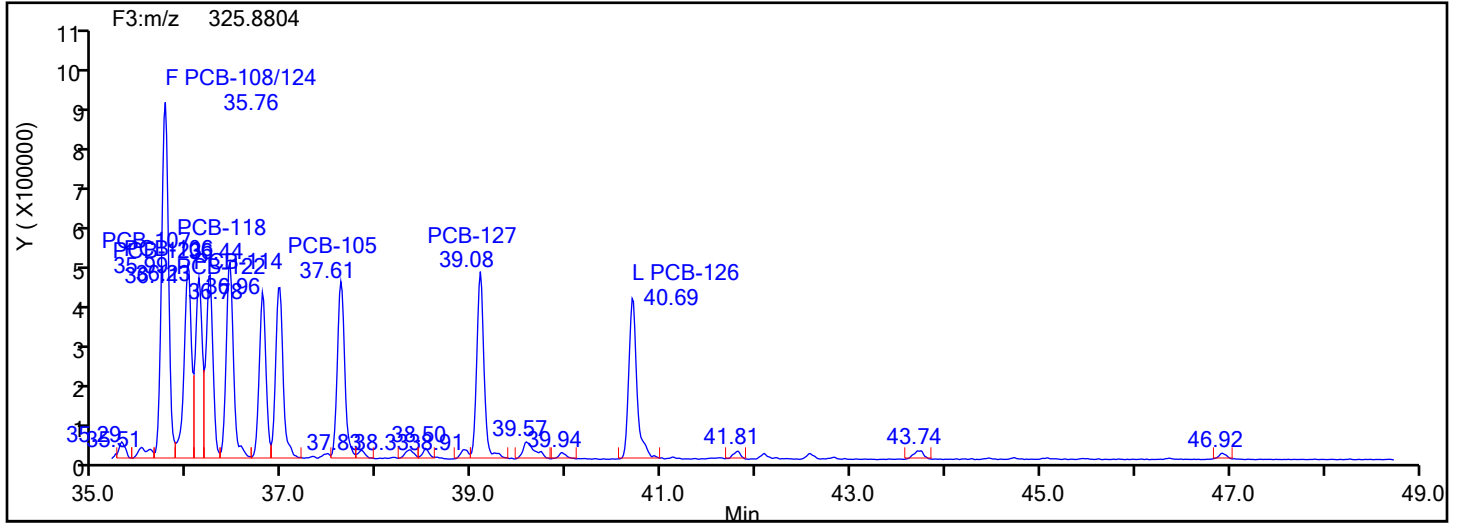
Worklist#: 87536

Sample Line#: 1

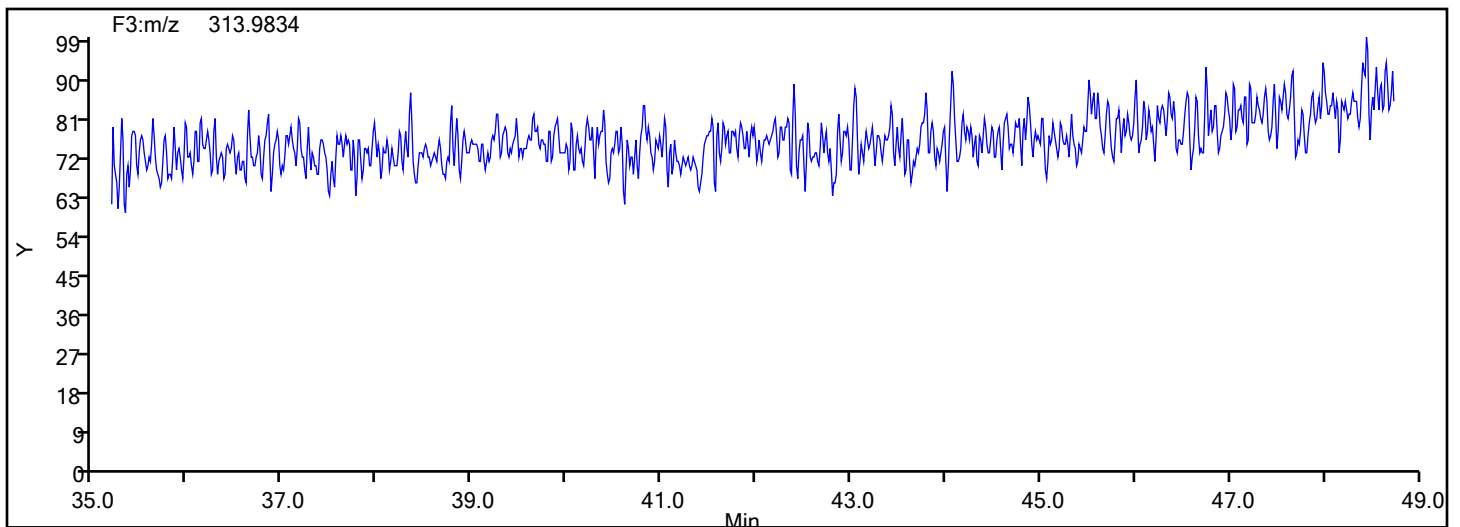
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

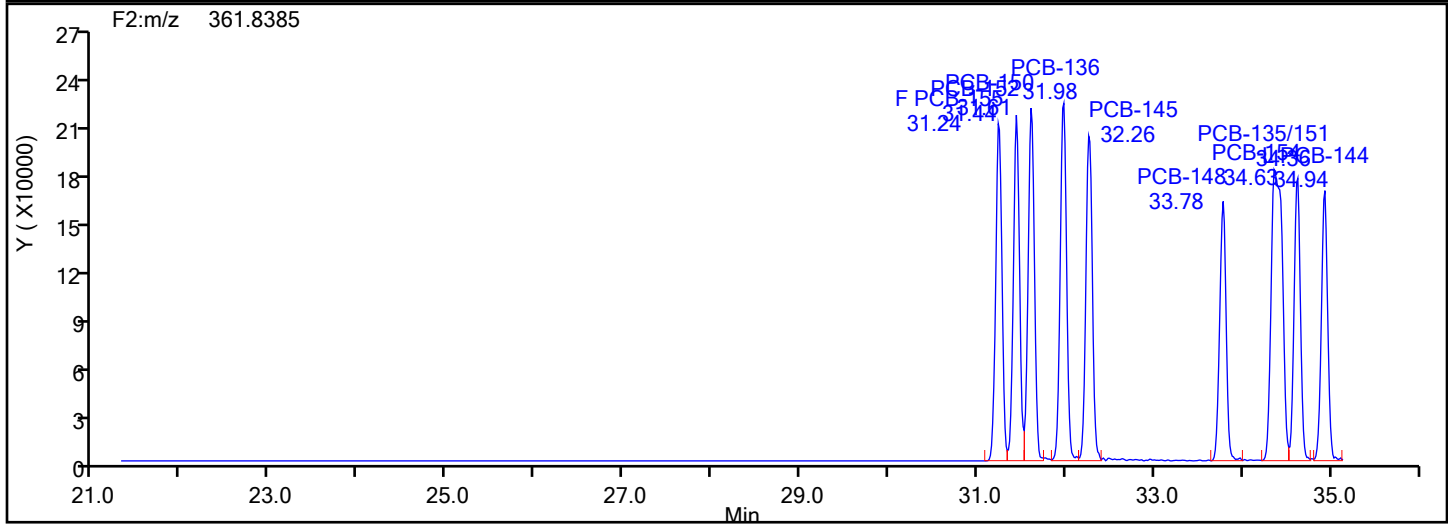
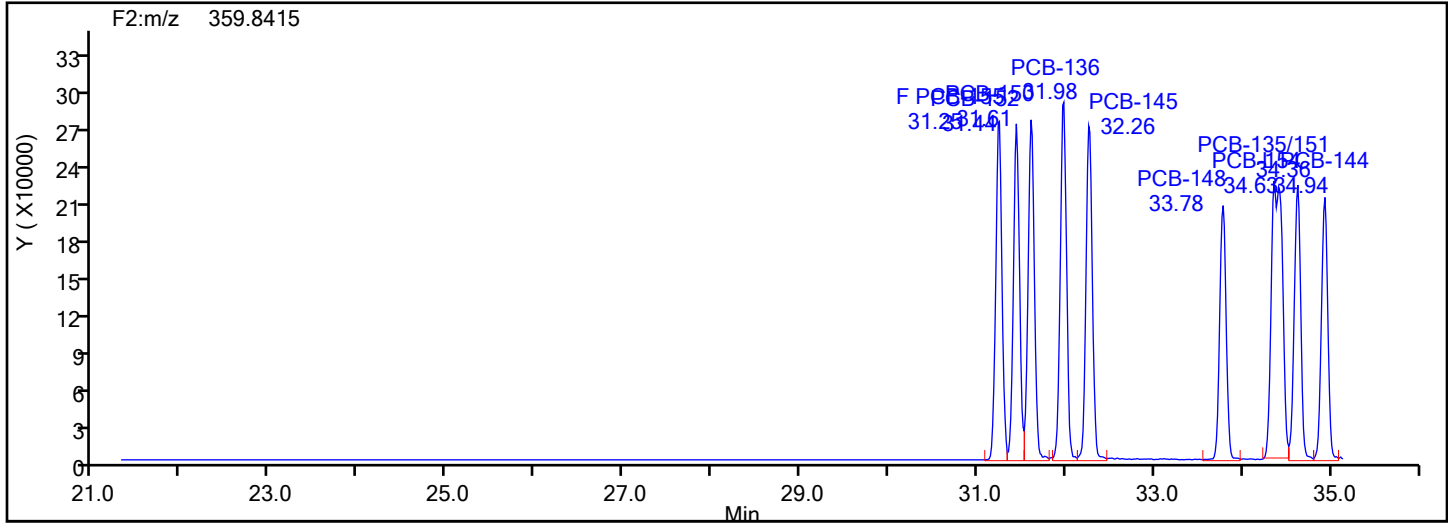
Worklist#: 87536

Sample Line#: 1

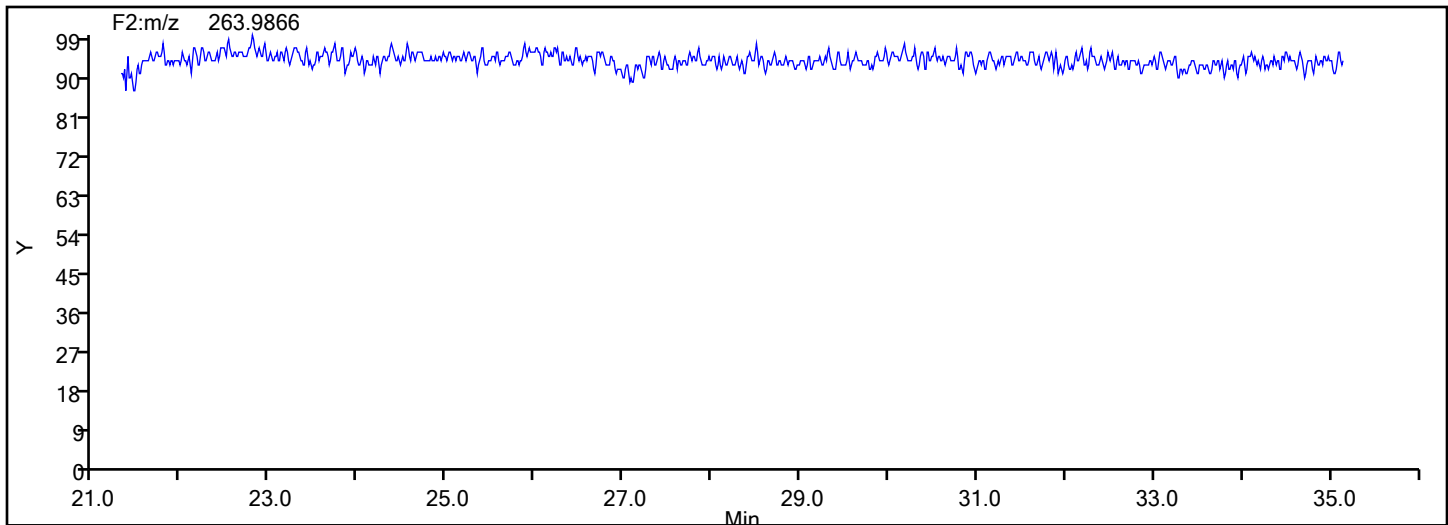
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

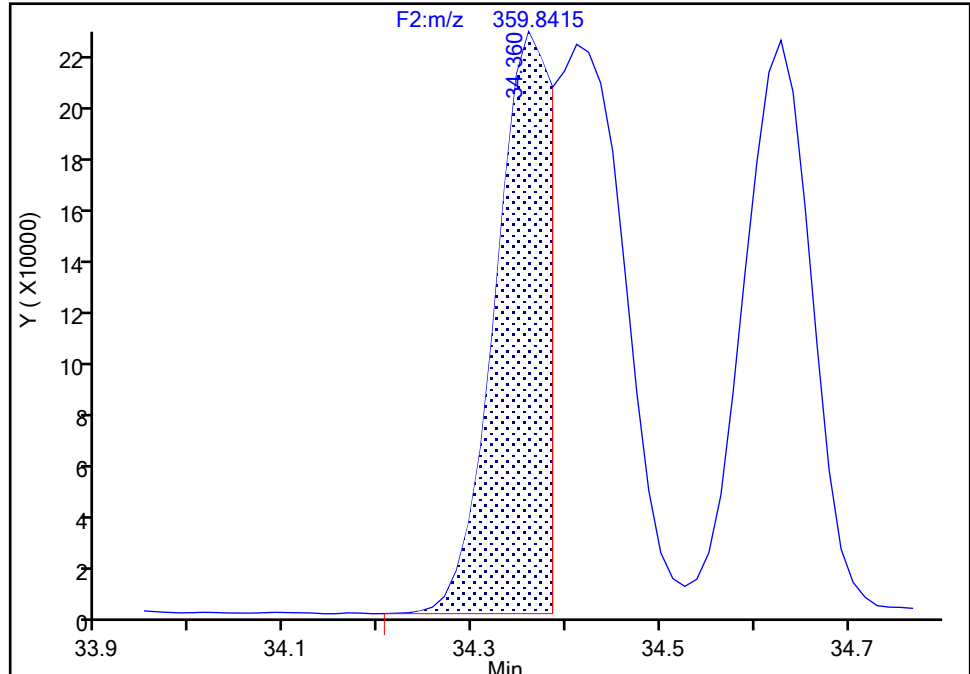
Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

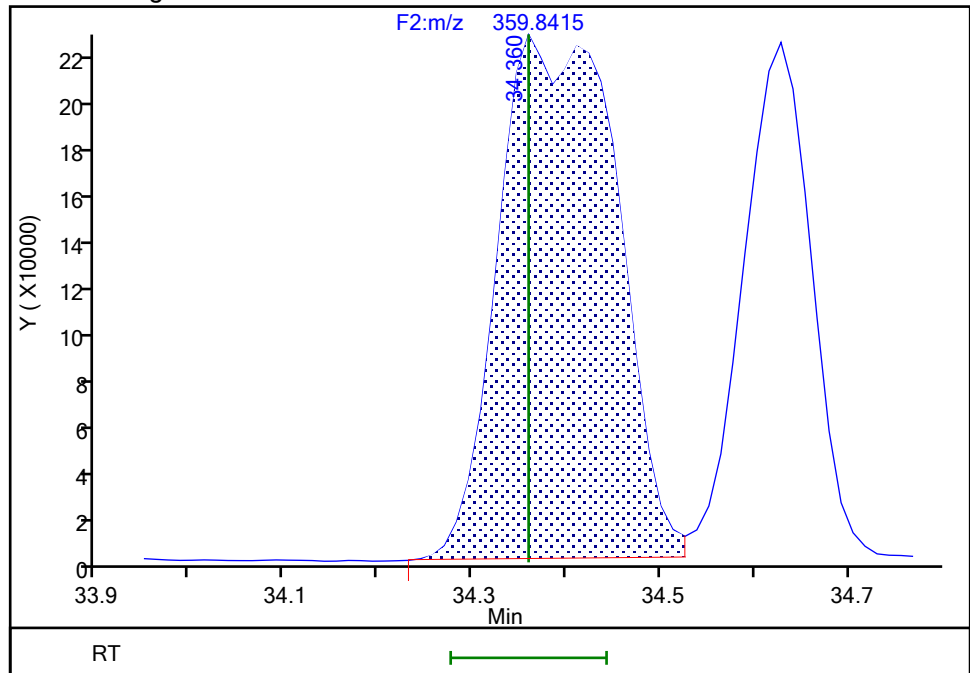
RT: 34.36
Area: 891970
Amount: 68.878546
Amount Units: pg/ul

Processing Integration Results



RT: 34.36
Area: 1982354
Amount: 98.934742
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:01:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Chrom Revision: 2.3 20-May-2024 22:00:34

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

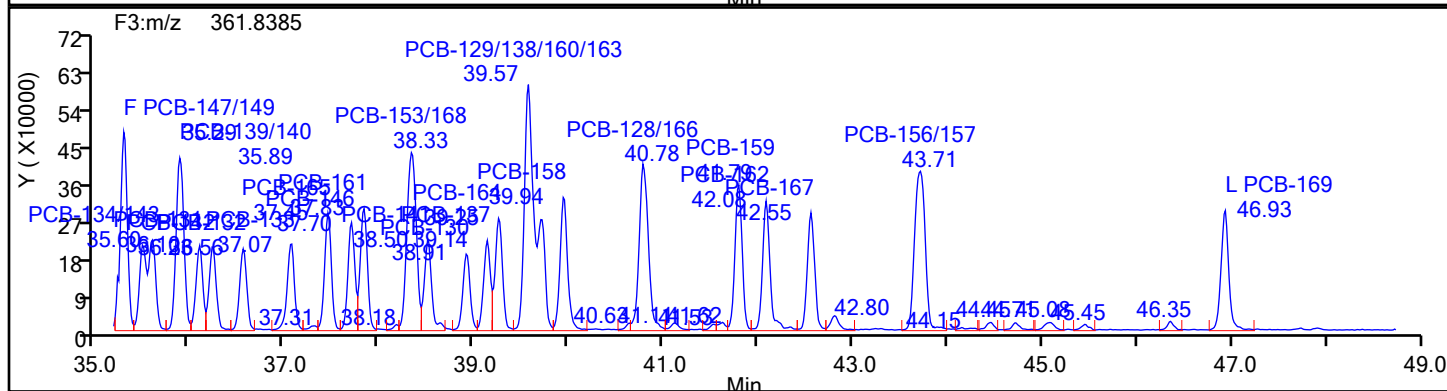
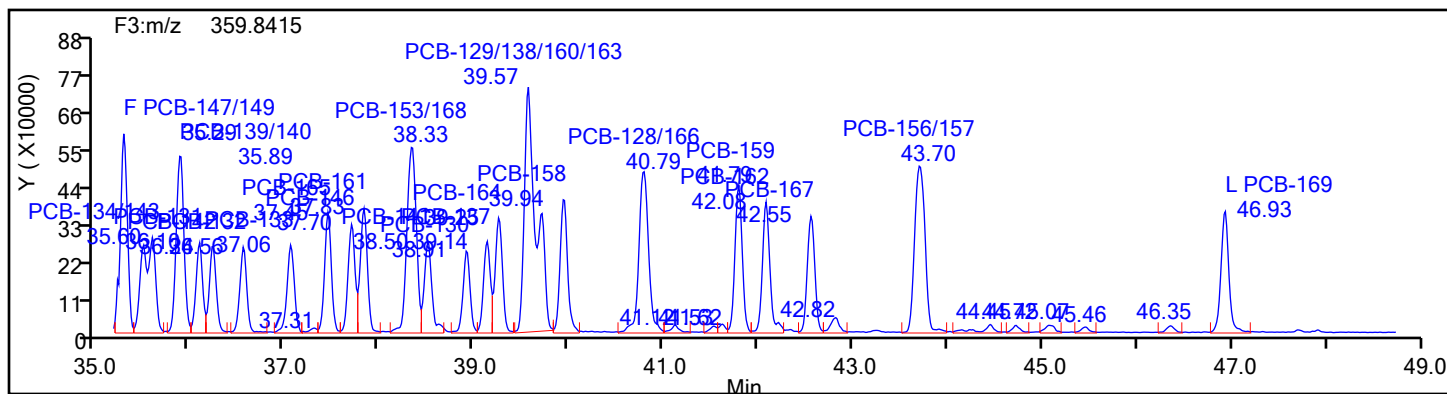
Worklist#: 87536

Sample Line#: 1

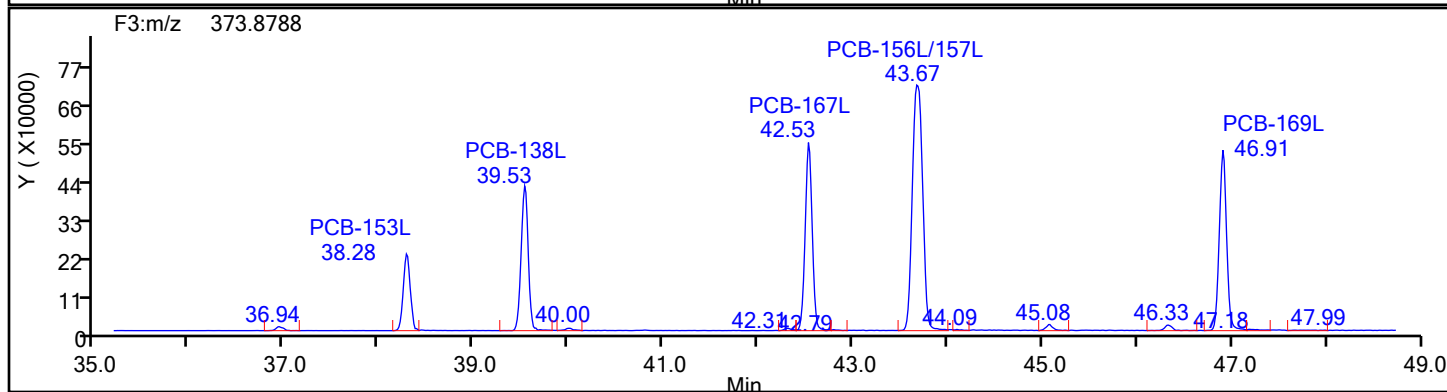
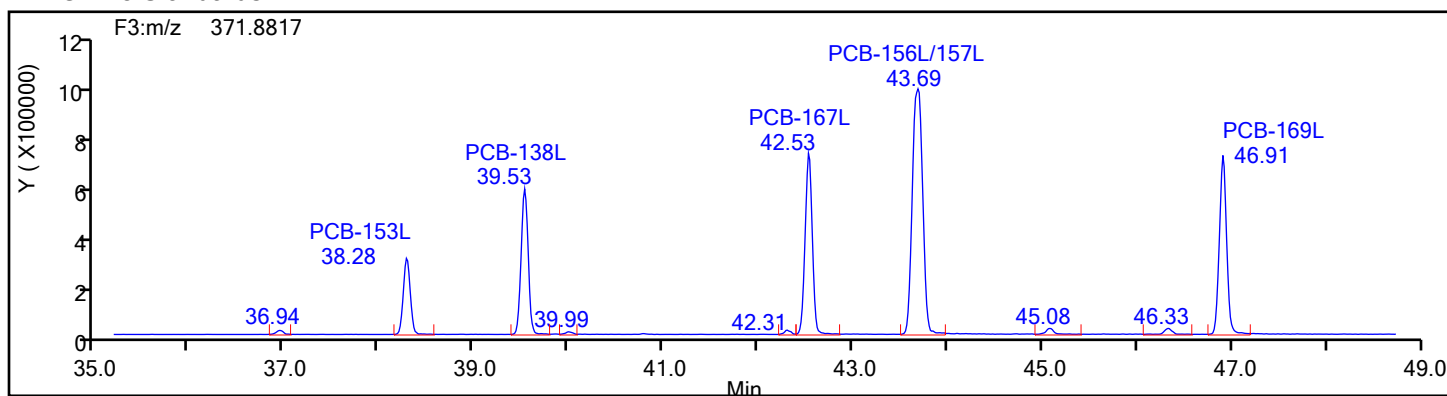
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxCPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

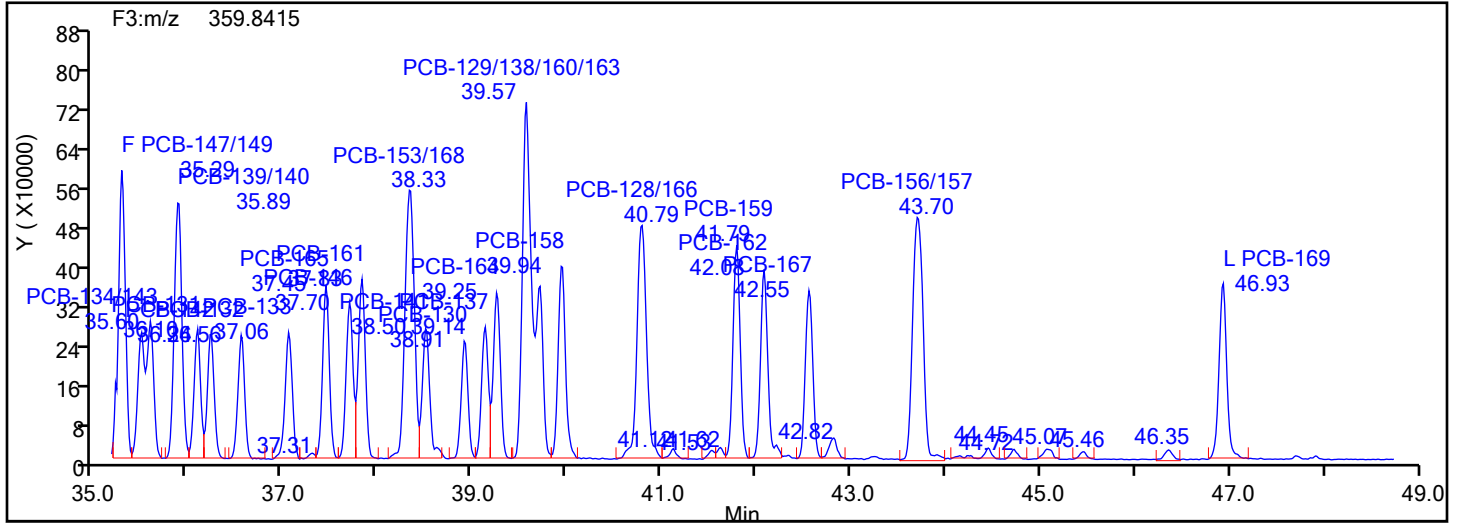
Worklist#: 87536

Sample Line#: 1

Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

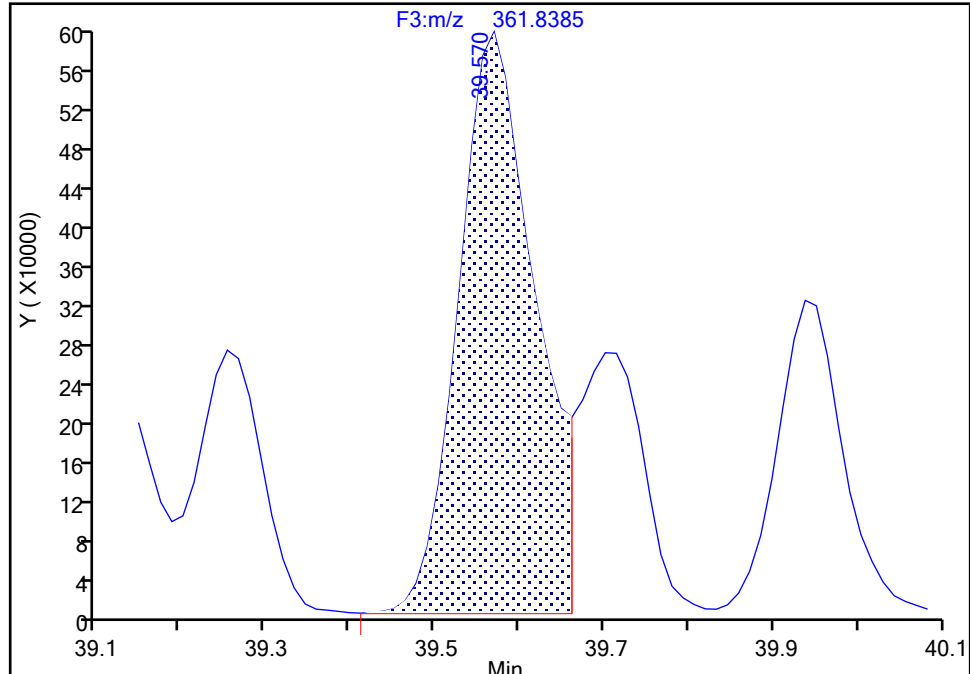
Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

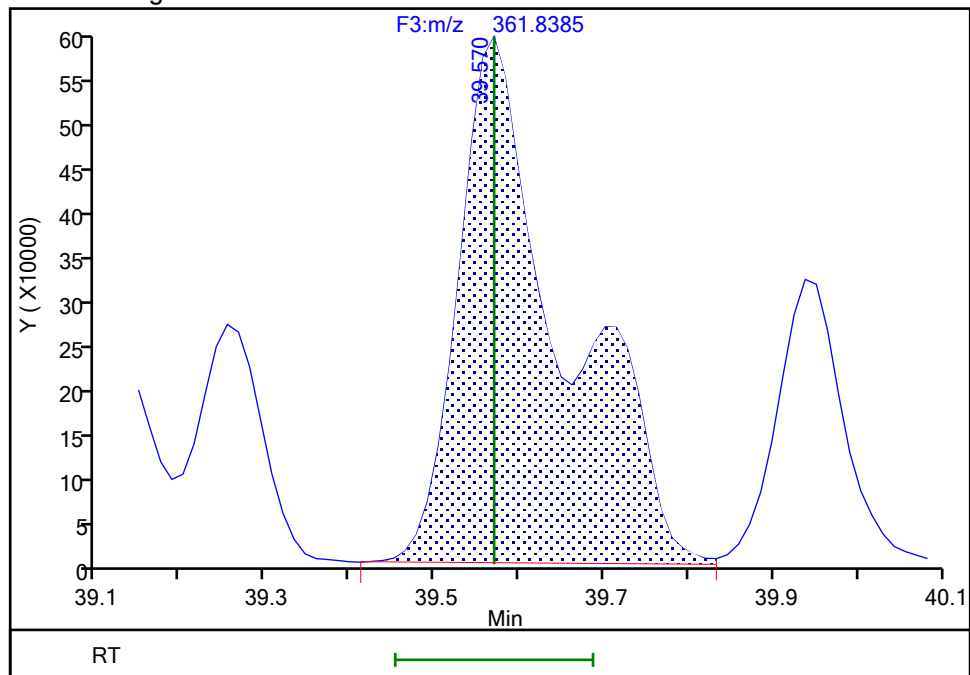
RT: 39.57
Area: 3728673
Amount: 138.9513
Amount Units: pg/ul

Processing Integration Results



RT: 39.57
Area: 5127404
Amount: 191.7503
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:01:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

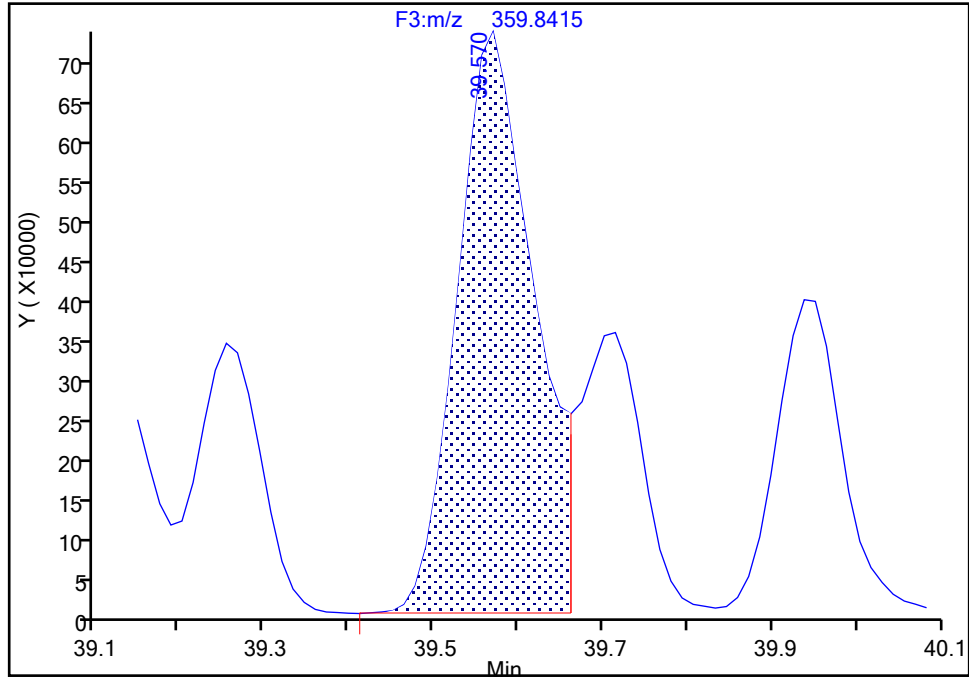
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

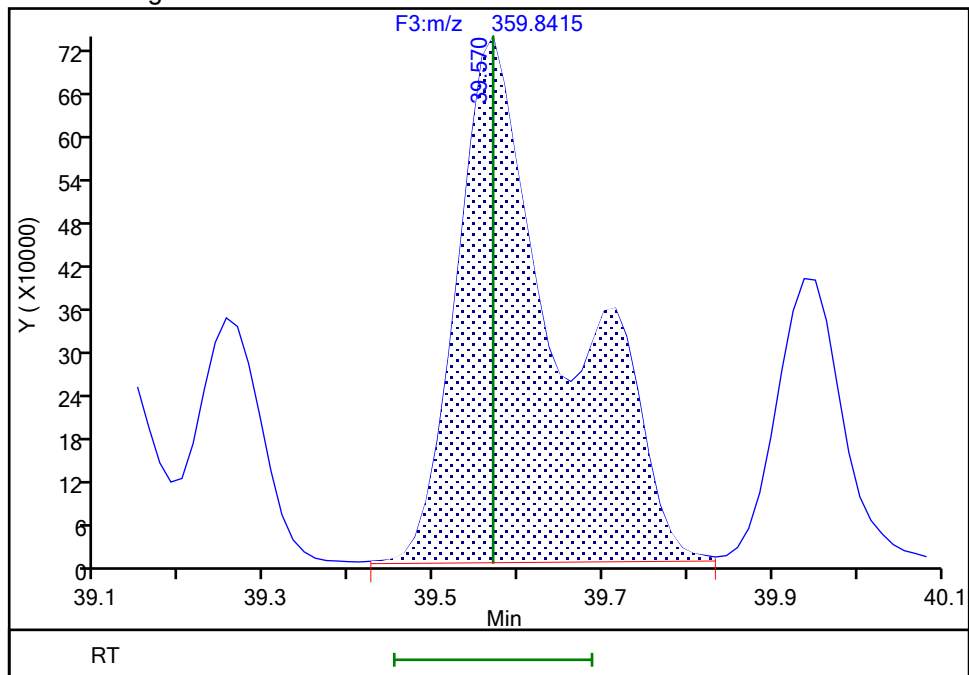
RT: 39.57
Area: 4588280
Amount: 138.9513
Amount Units: pg/ul

Processing Integration Results



RT: 39.57
Area: 6349840
Amount: 191.7503
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:01:56 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-GS-2024-189
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

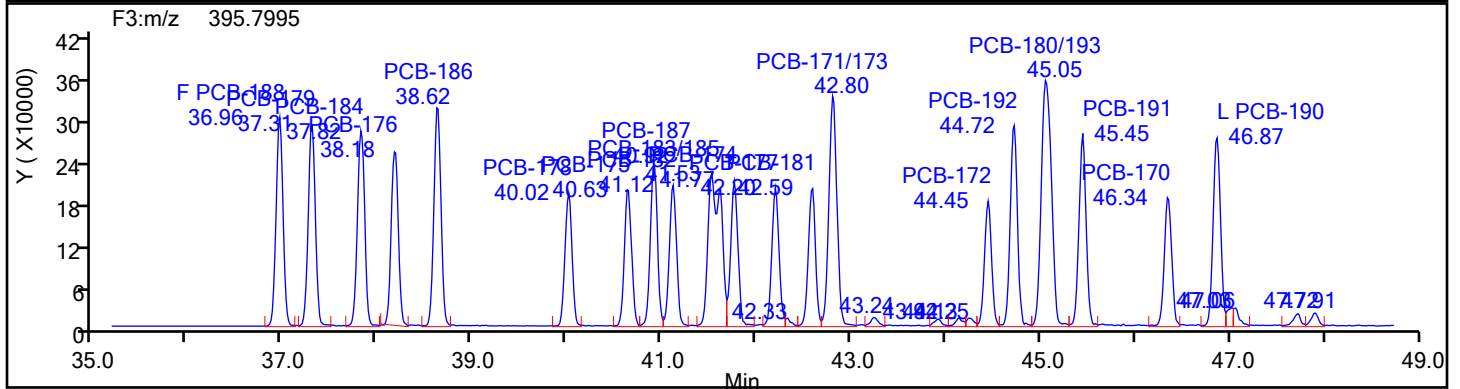
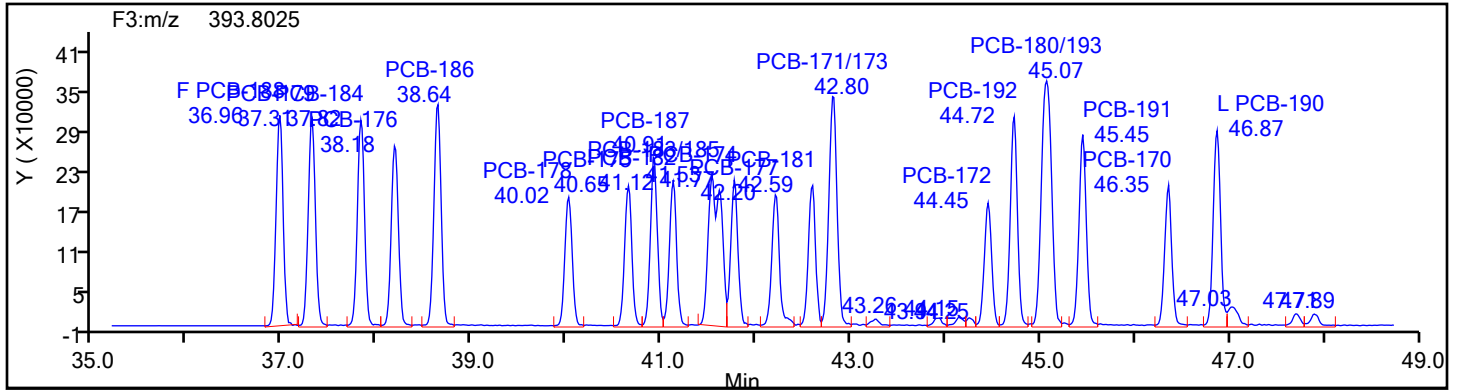
Worklist#: 87536

Sample Line#: 1

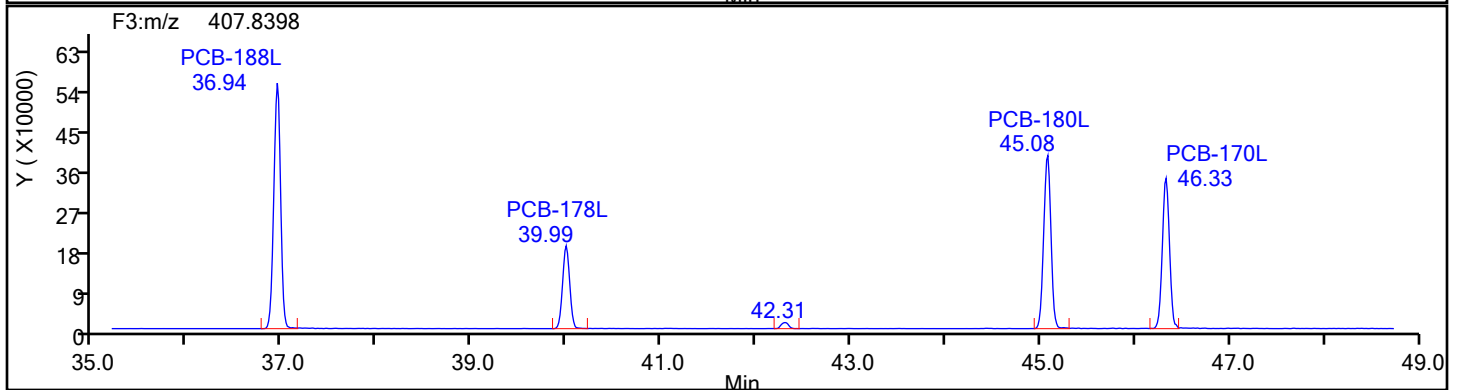
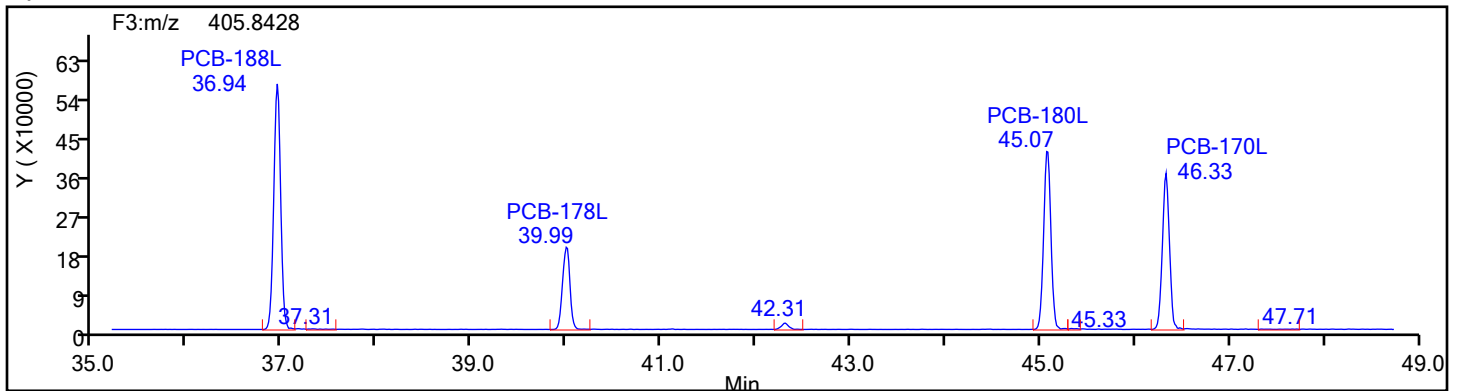
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

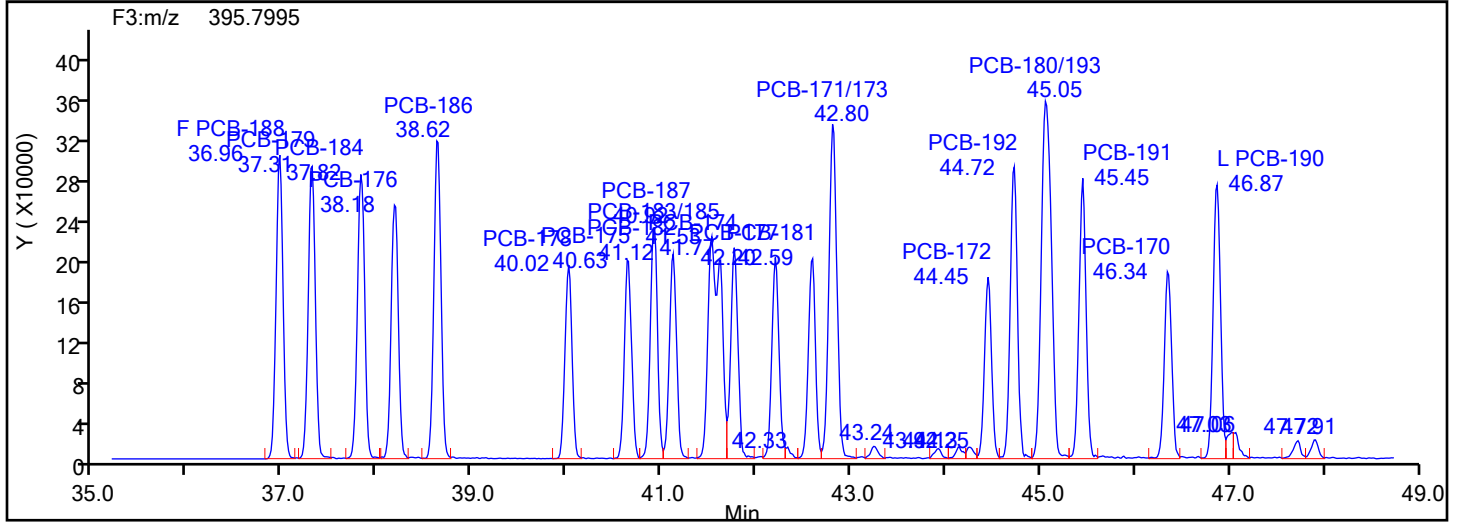
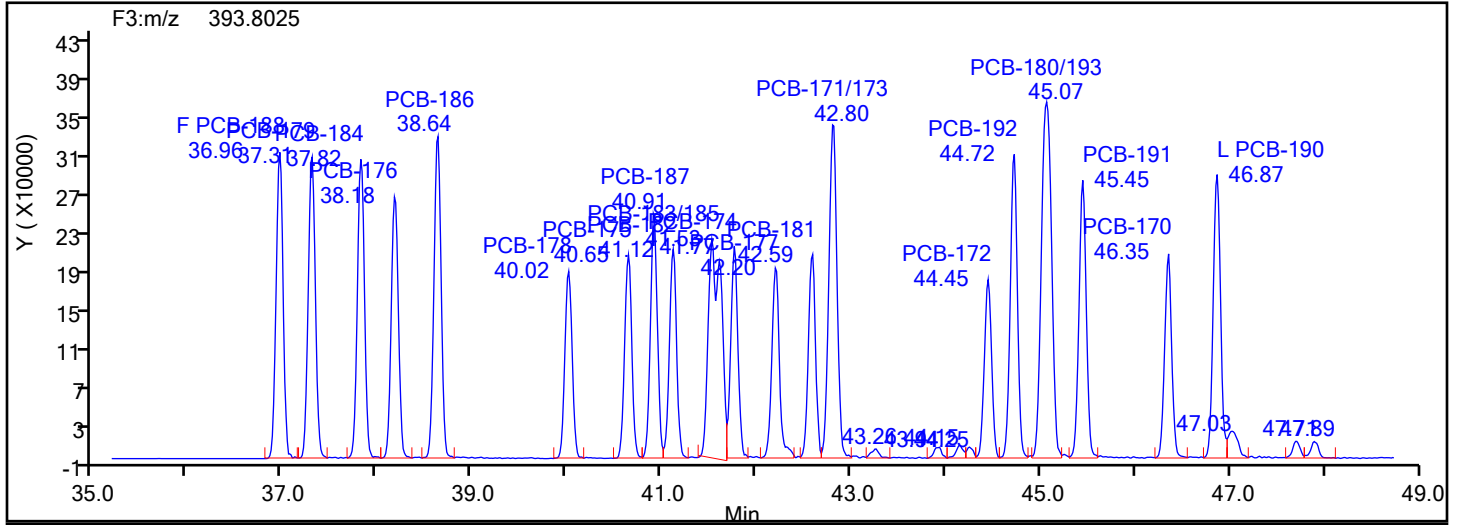
Worklist#: 87536

Sample Line#: 1

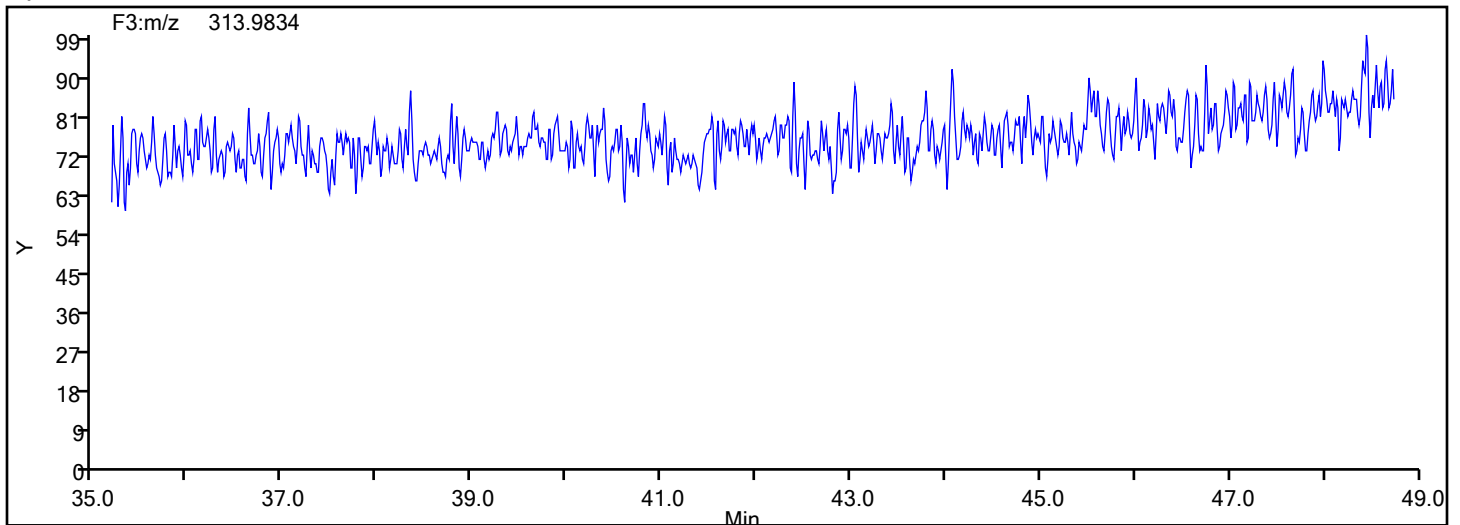
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

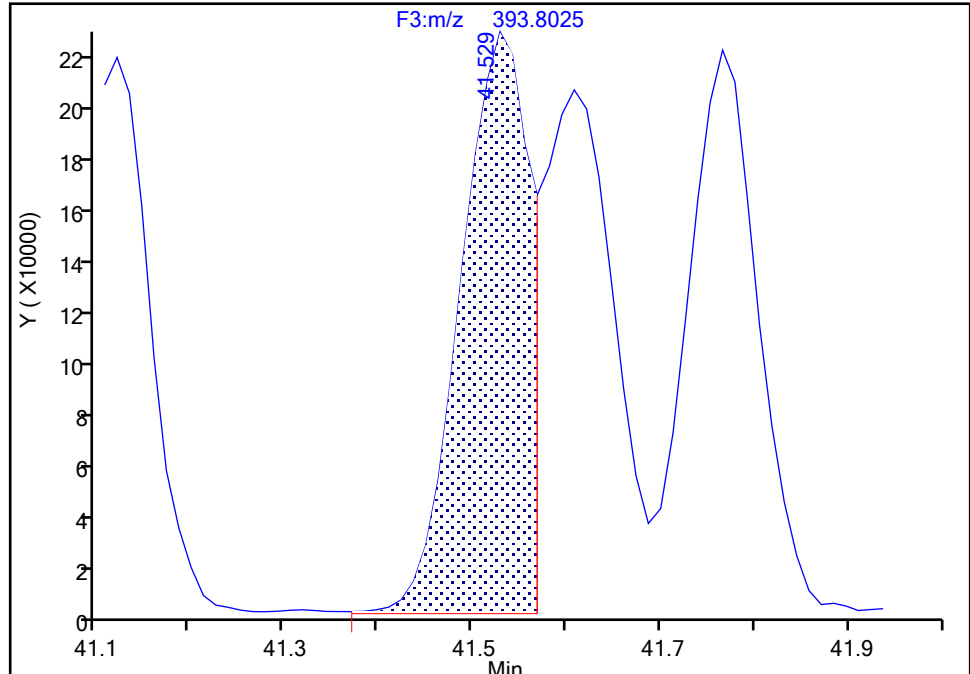
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

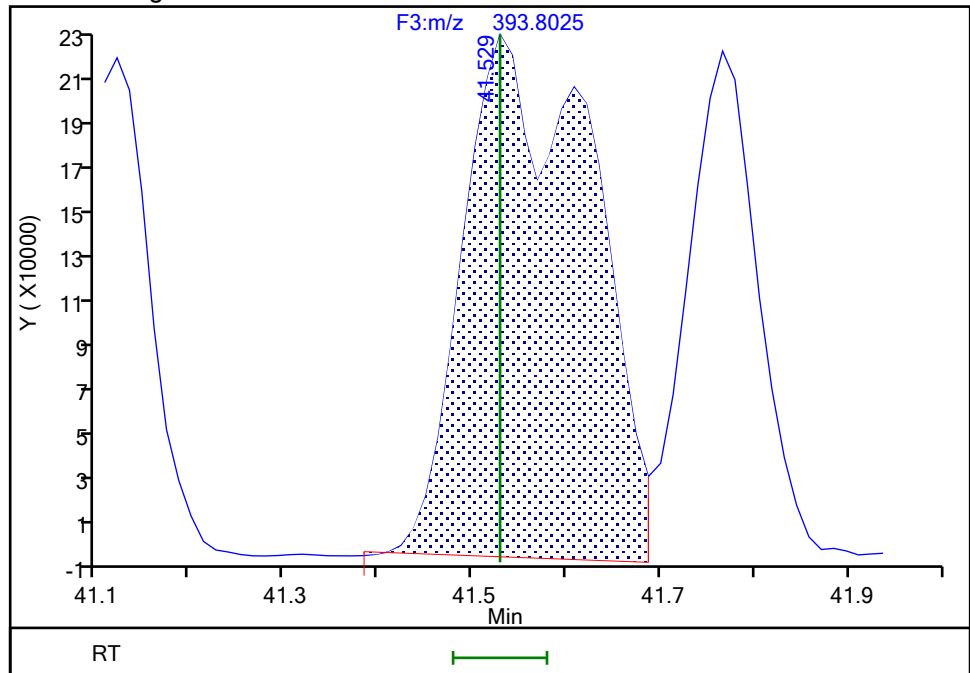
RT: 41.53
Area: 1109644
Amount: 48.378466
Amount Units: pg/ul

Processing Integration Results



RT: 41.53
Area: 2113786
Amount: 91.233859
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:02:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

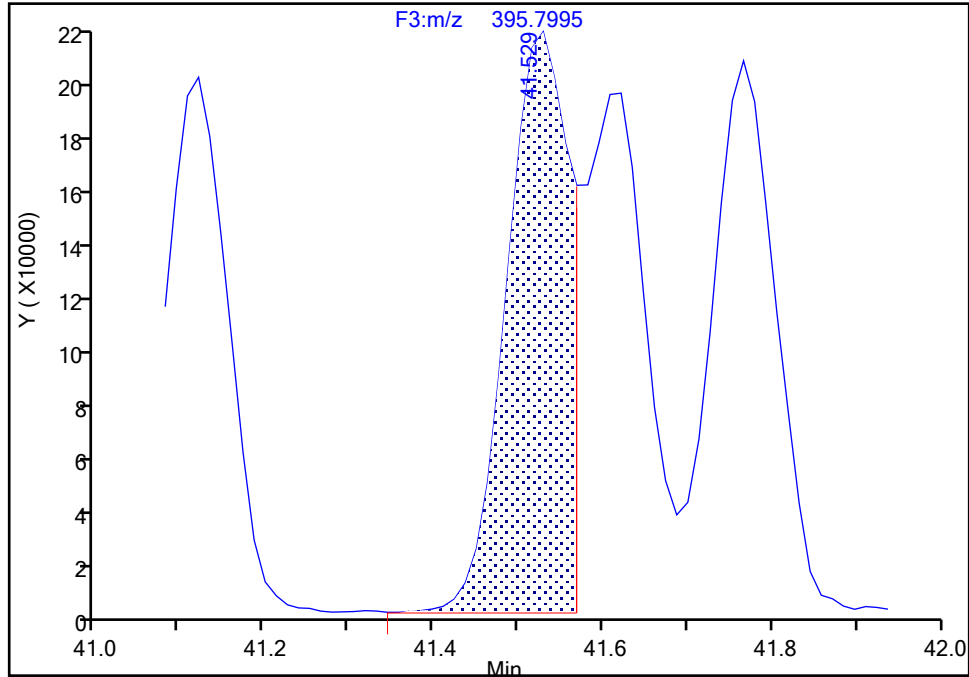
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d
Injection Date: 11-Jun-2024 21:36:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

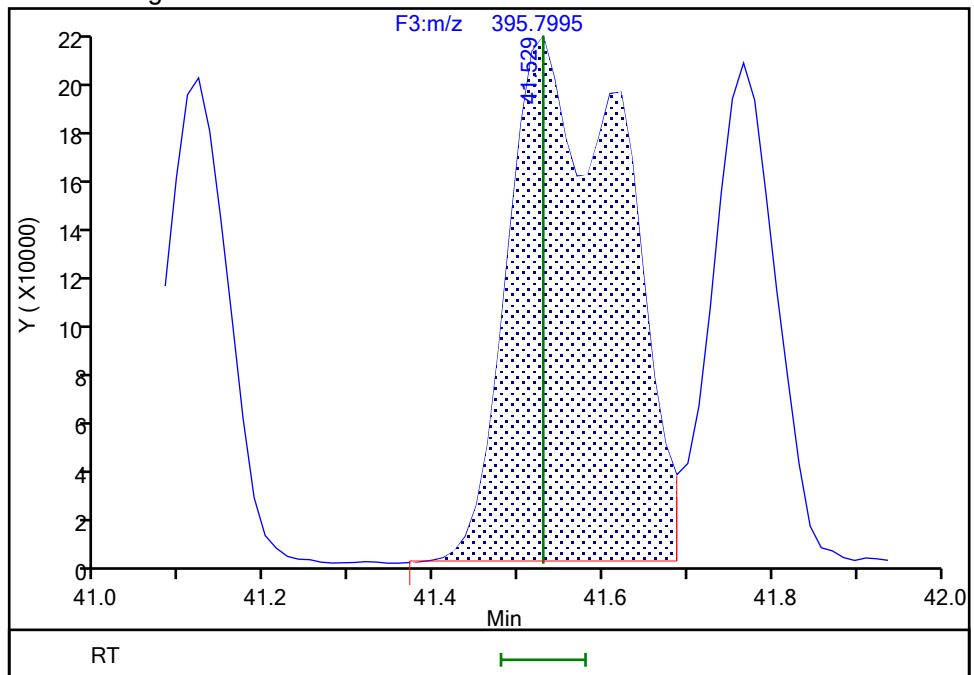
RT: 41.53
Area: 1103298
Amount: 48.378466
Amount Units: pg/ul

Processing Integration Results



RT: 41.53
Area: 2059460
Amount: 91.233859
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 11-Jun-2024 23:02:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-G-0193
9/6/2024
2:43:26 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

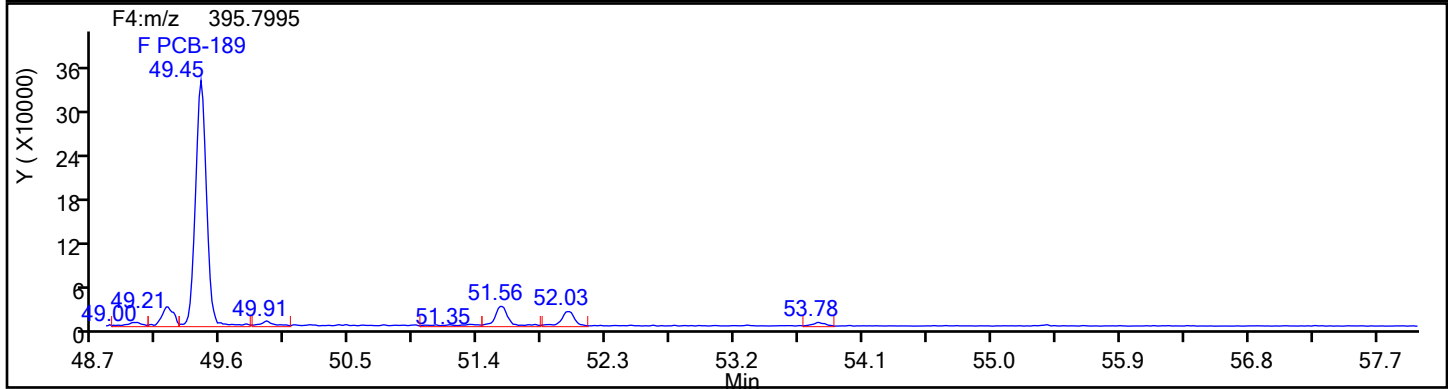
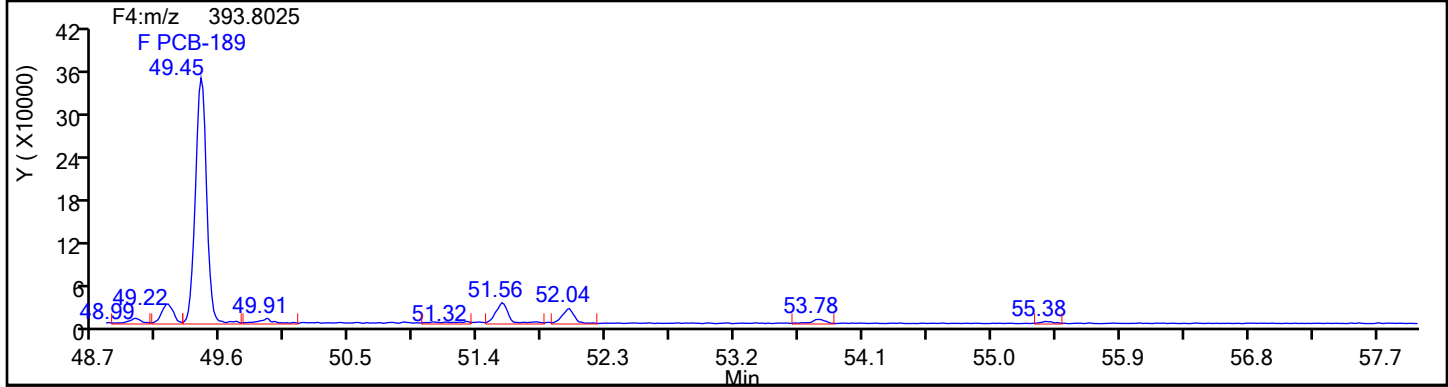
Worklist#: 87536

Sample Line#: 1

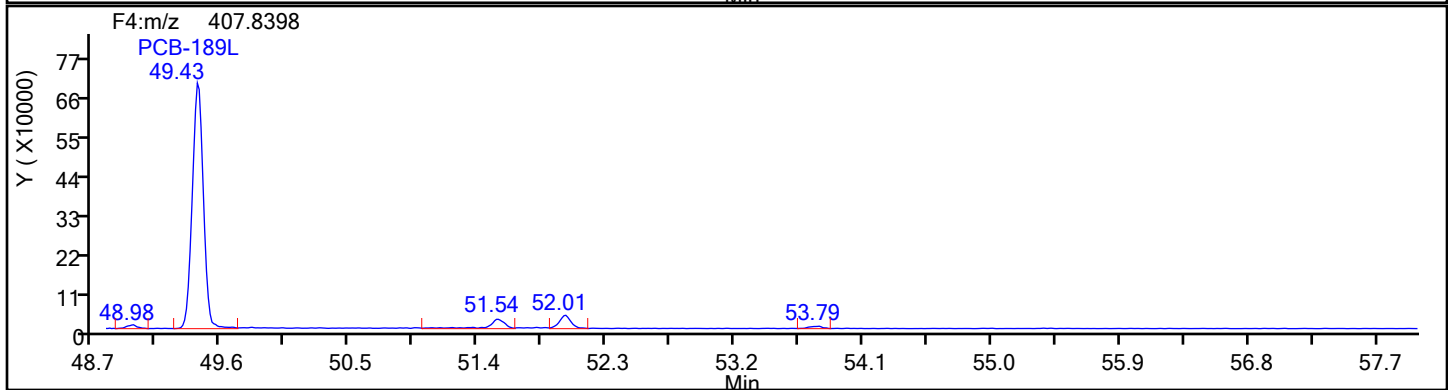
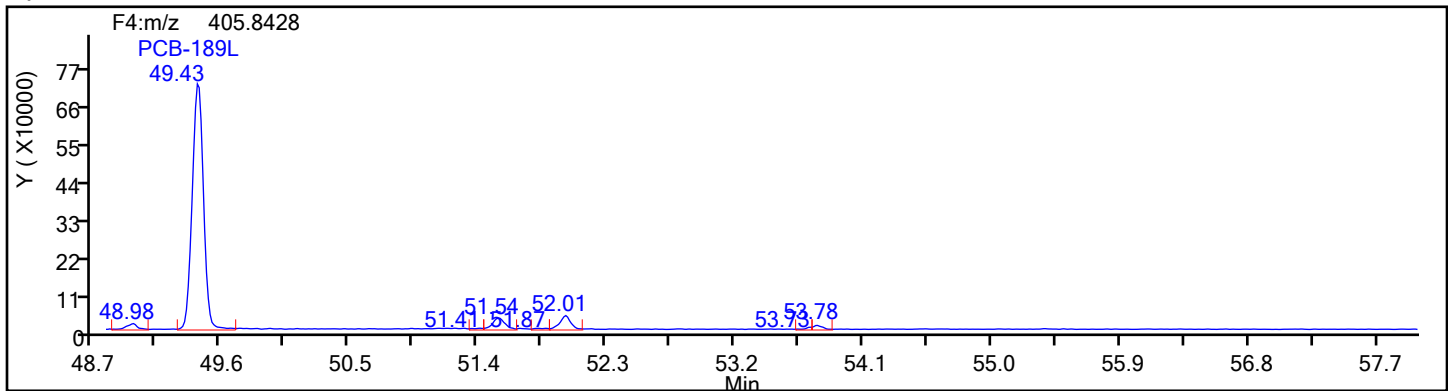
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

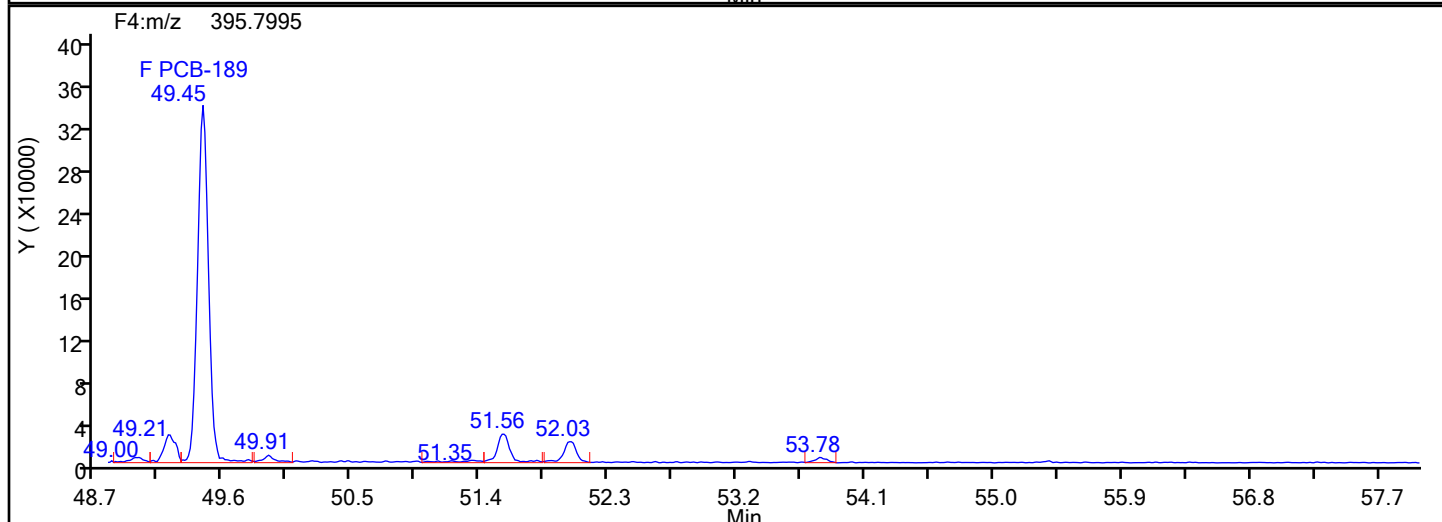
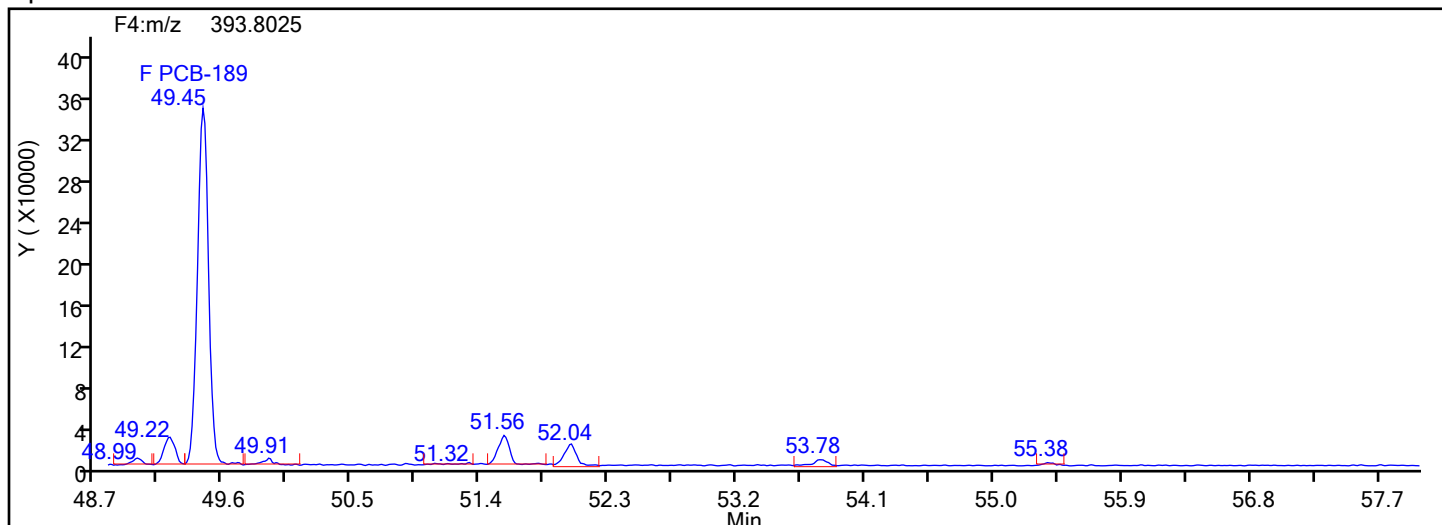
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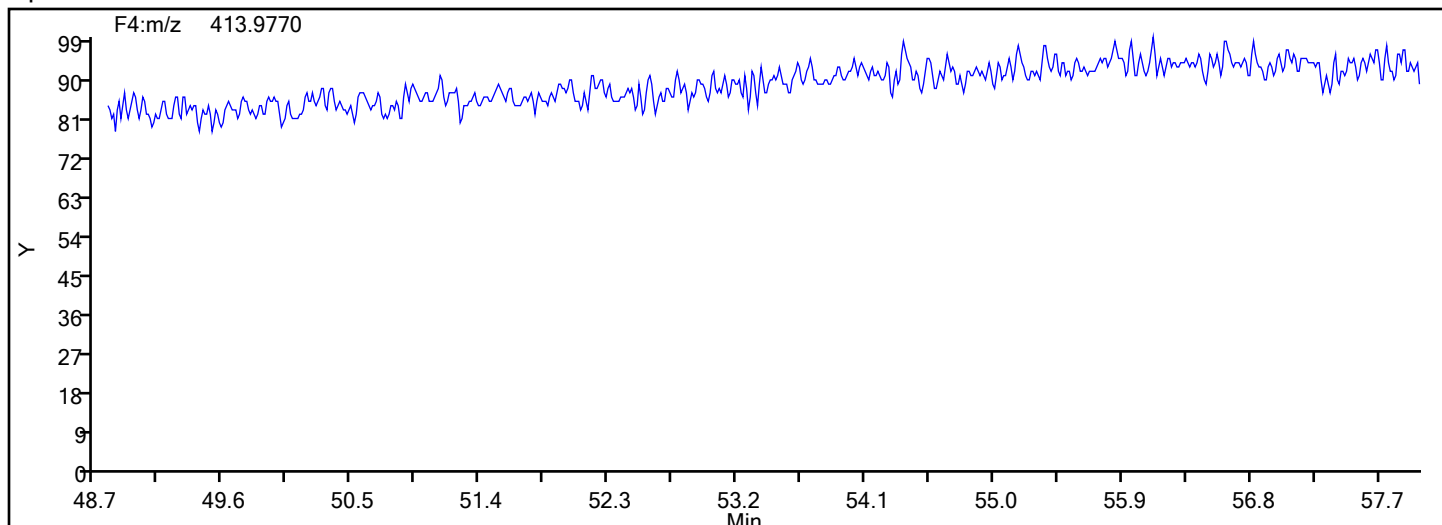
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

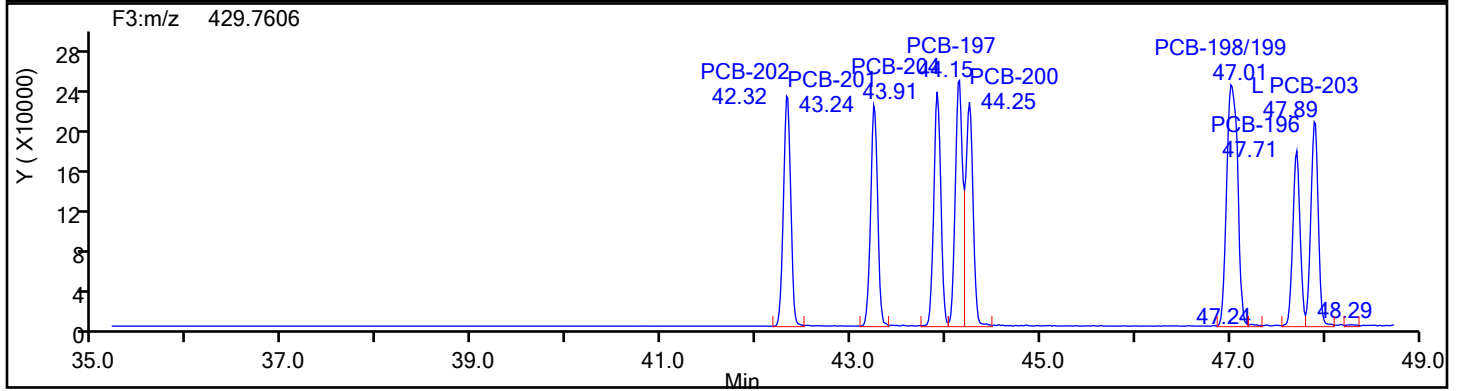
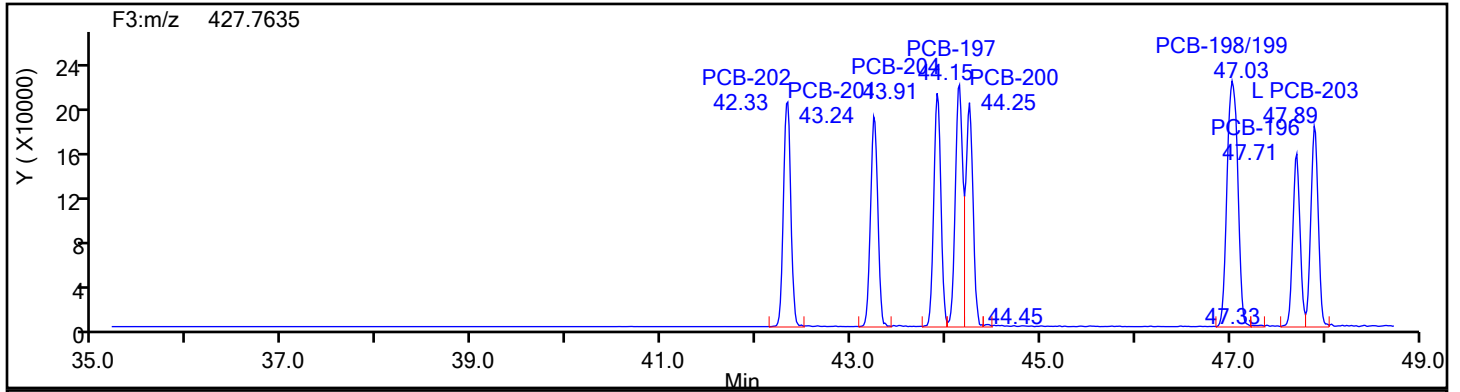
Worklist#: 87536

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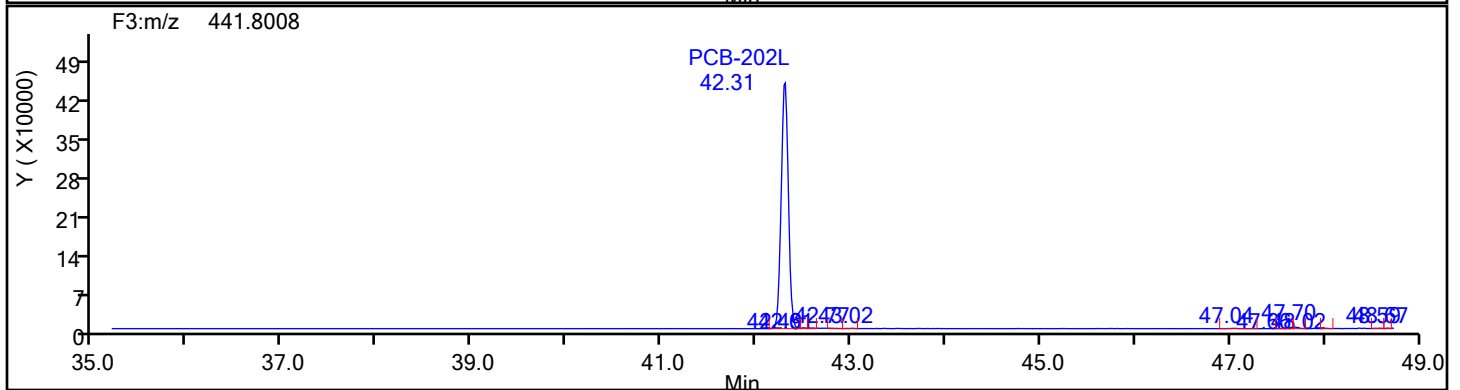
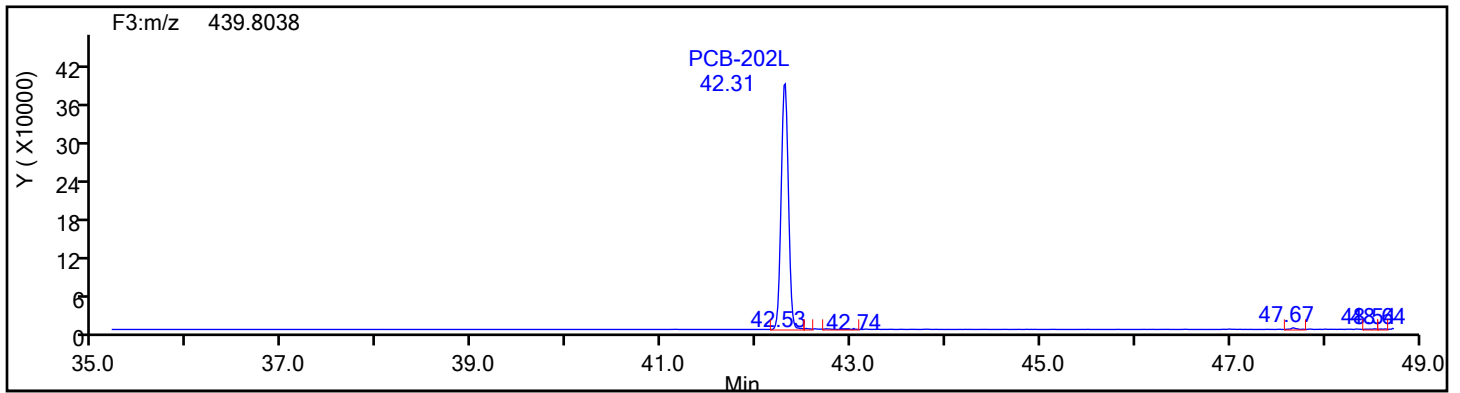
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

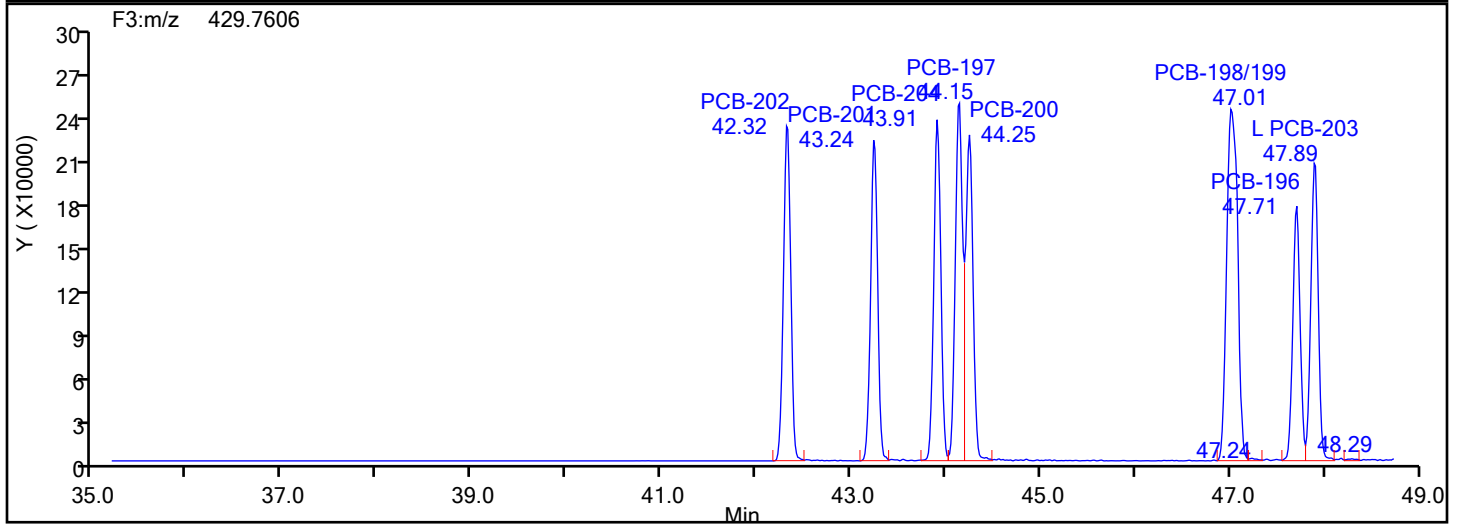
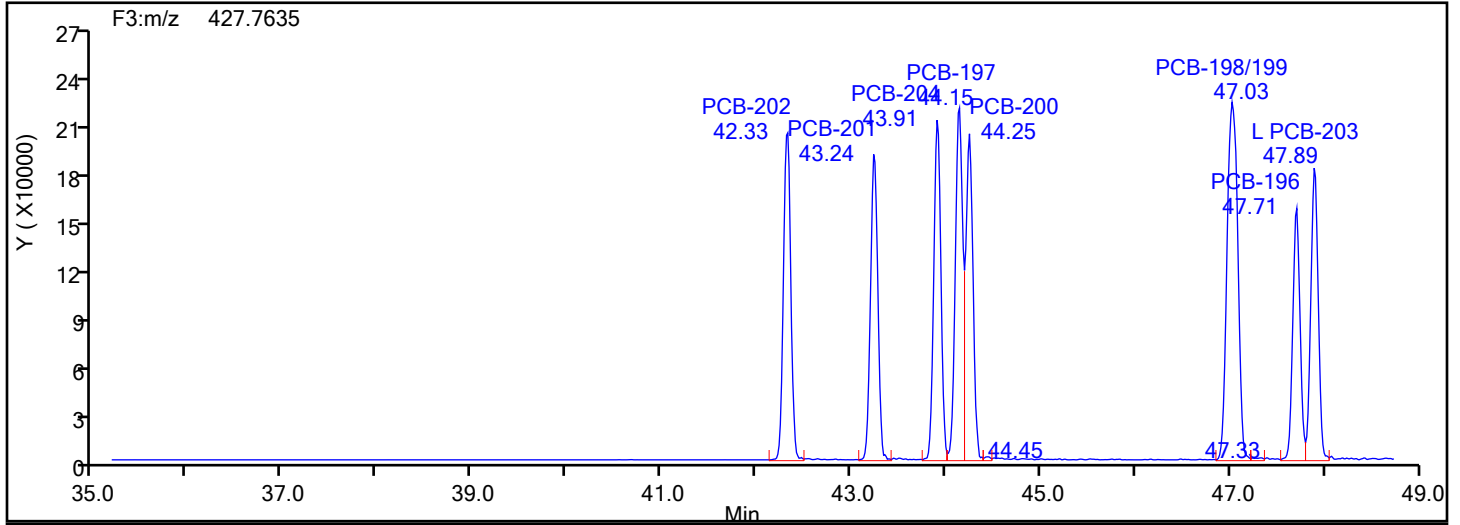
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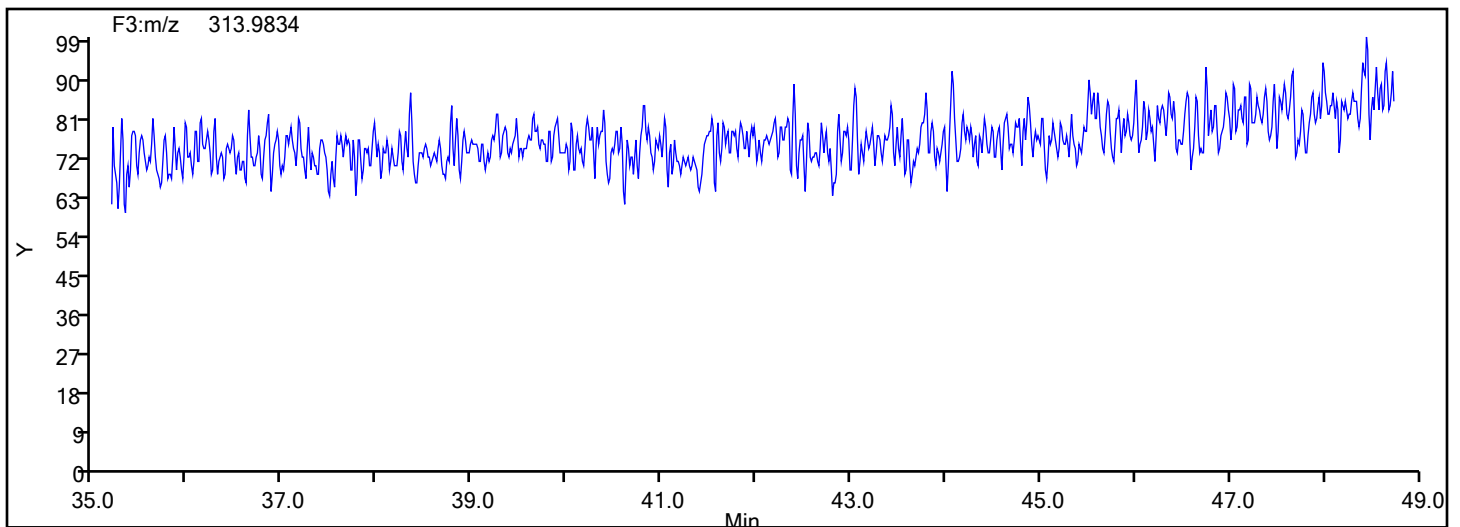
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

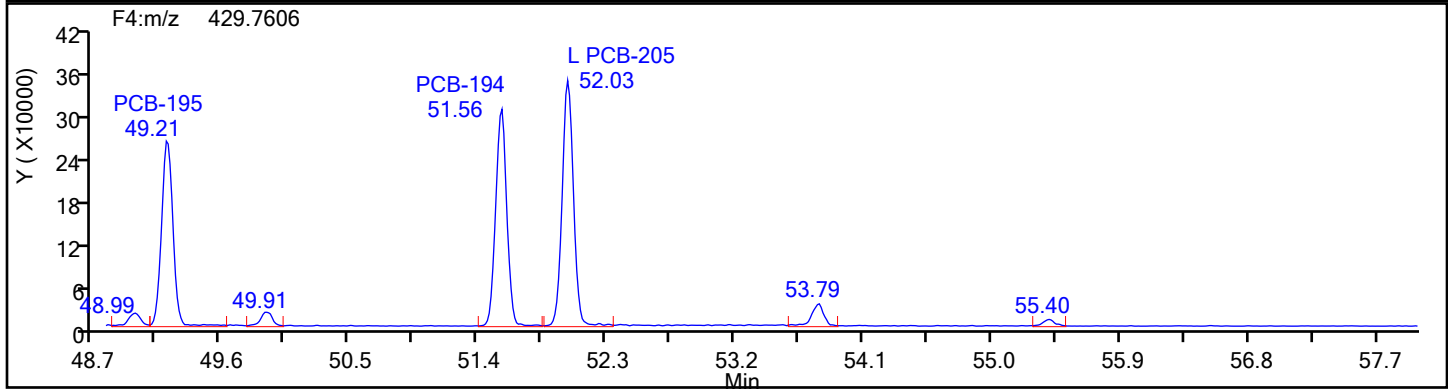
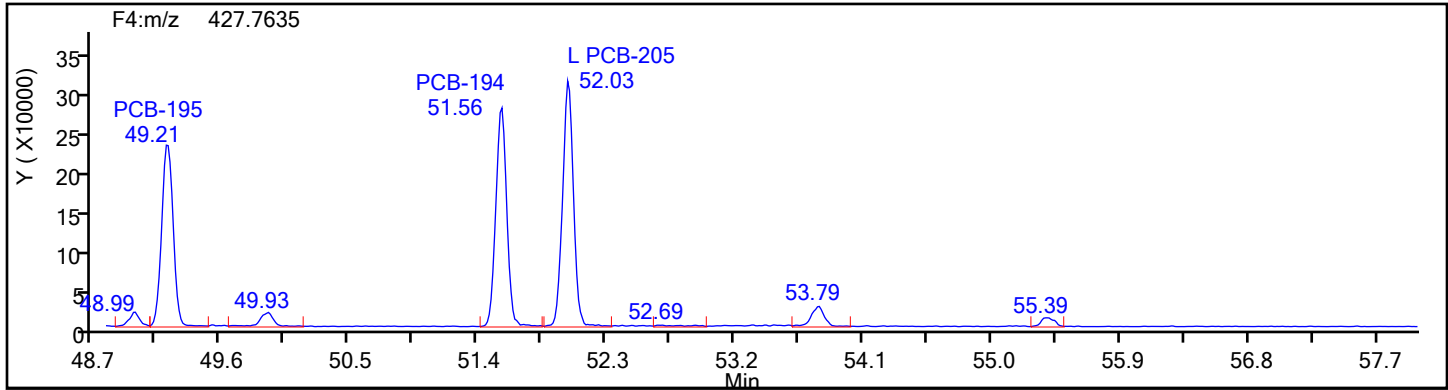
Worklist#: 87536

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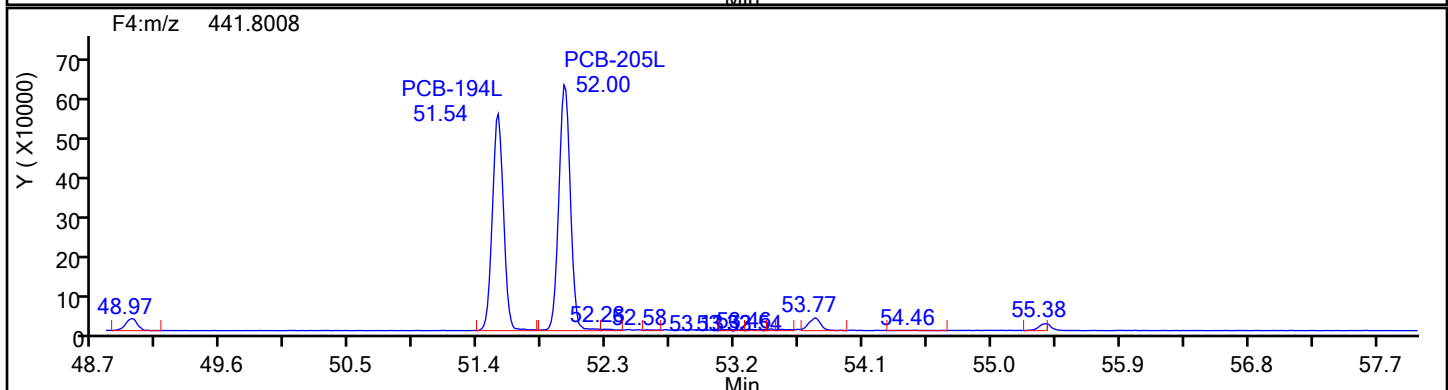
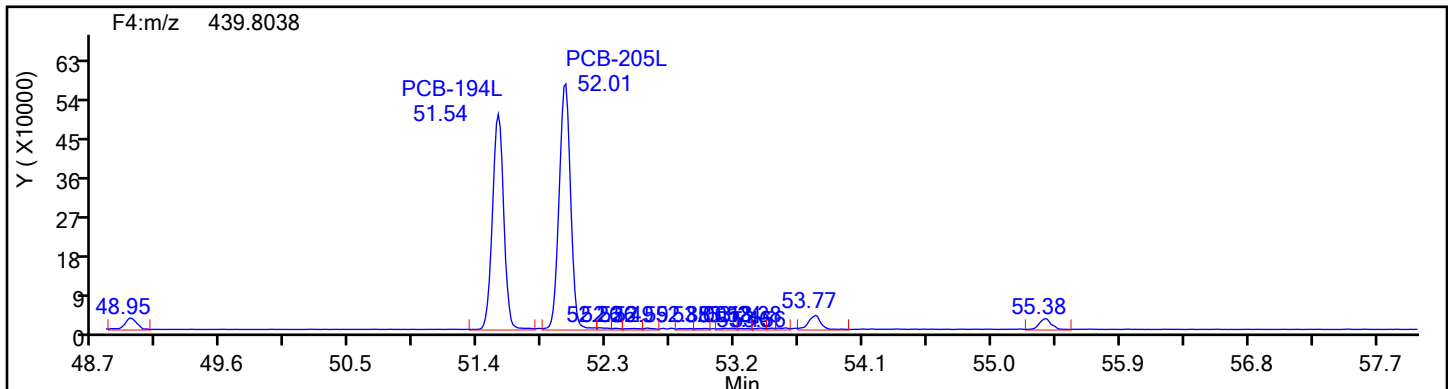
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

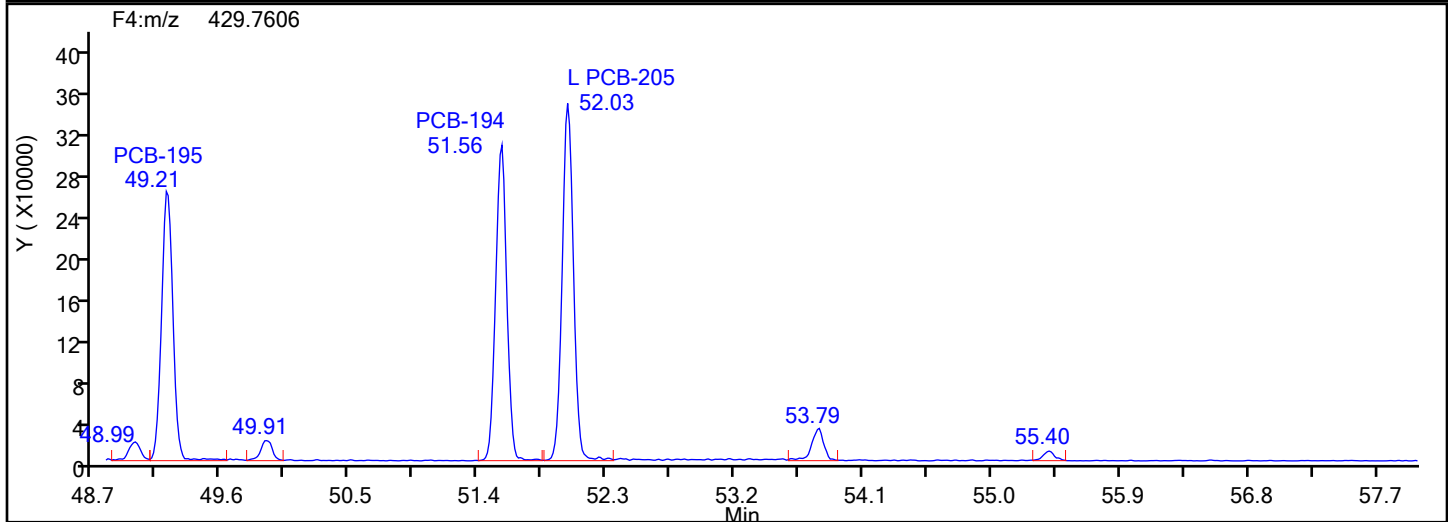
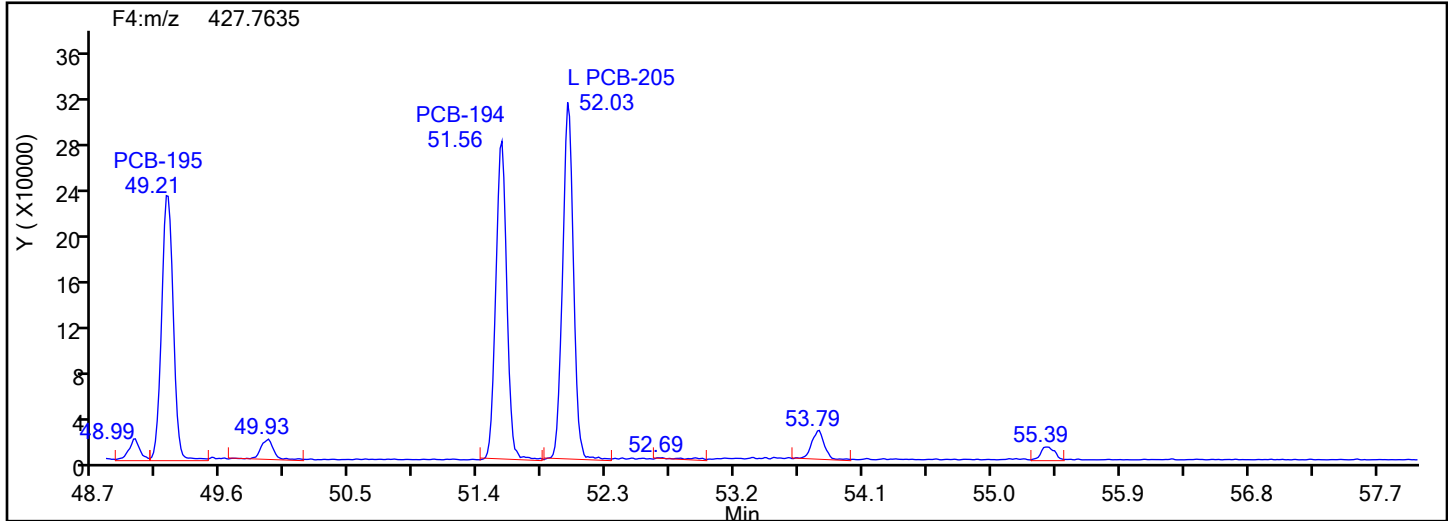
Worklist#: 87536

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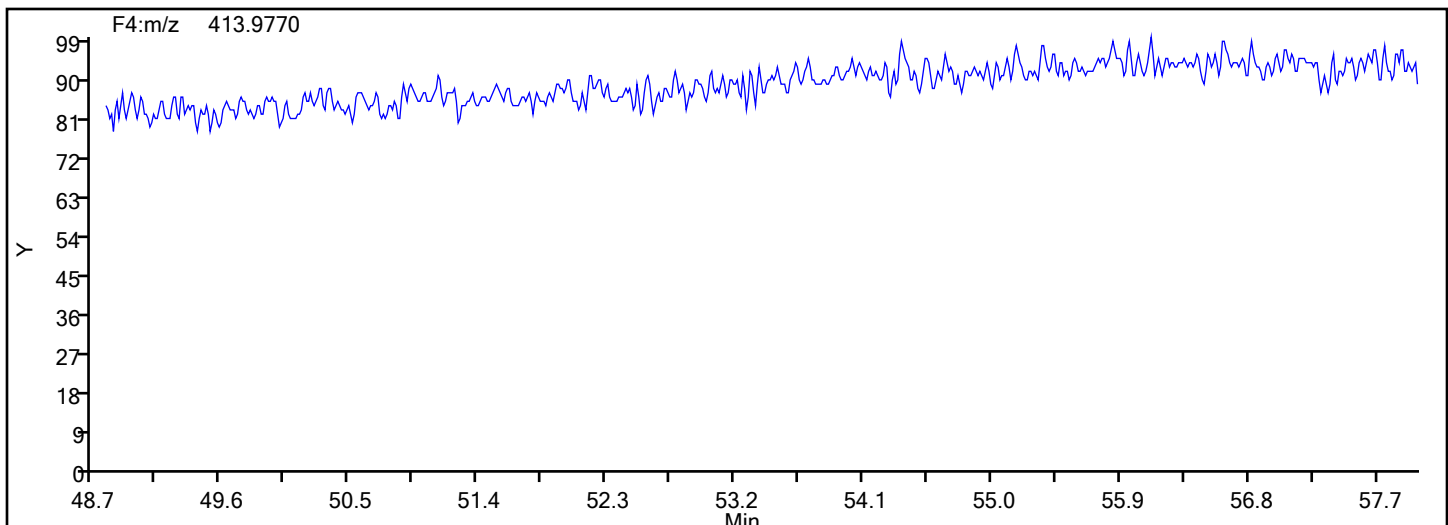
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

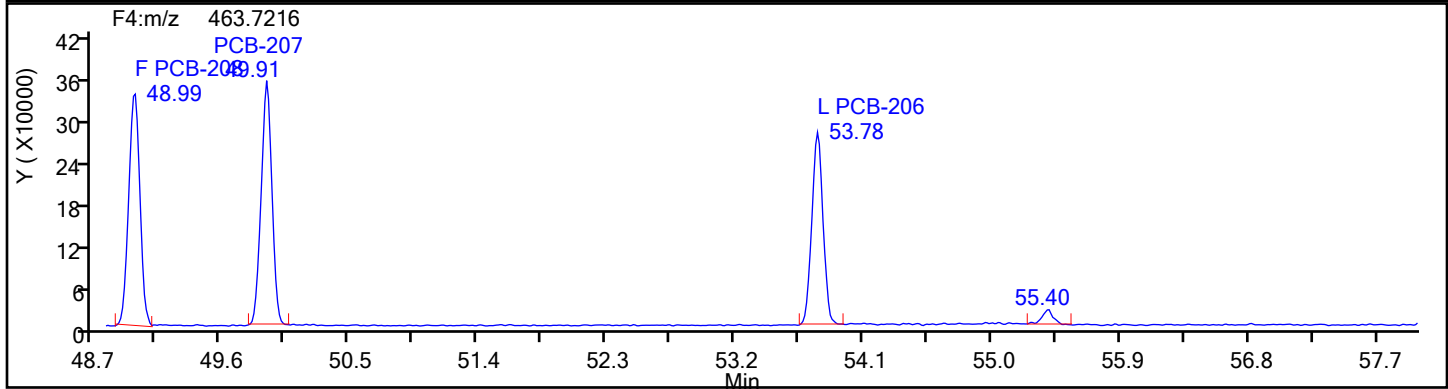
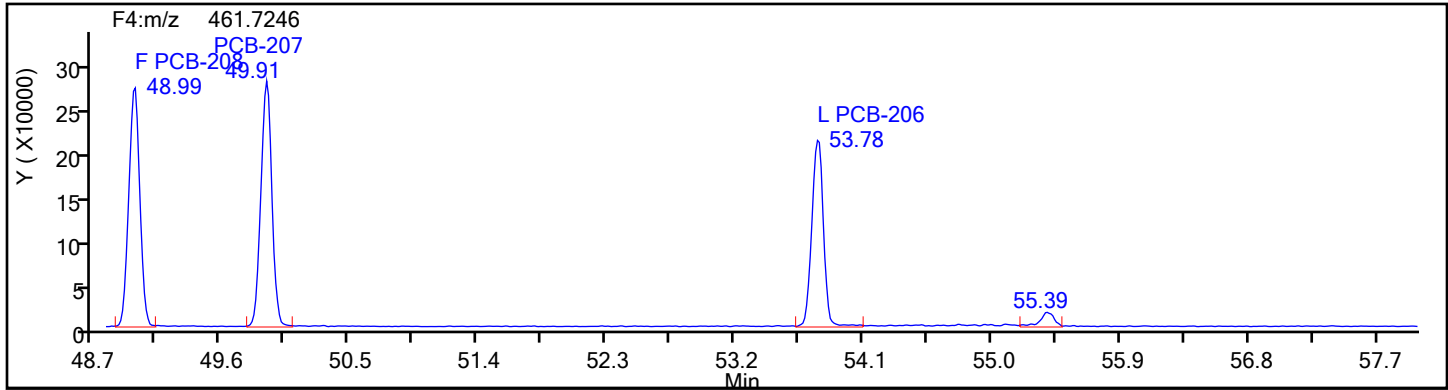
Worklist#: 87536

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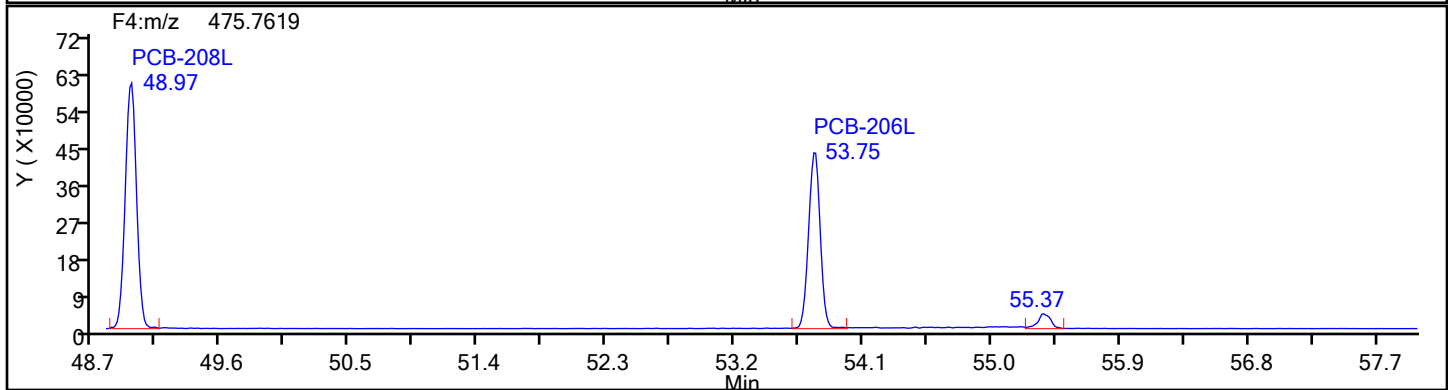
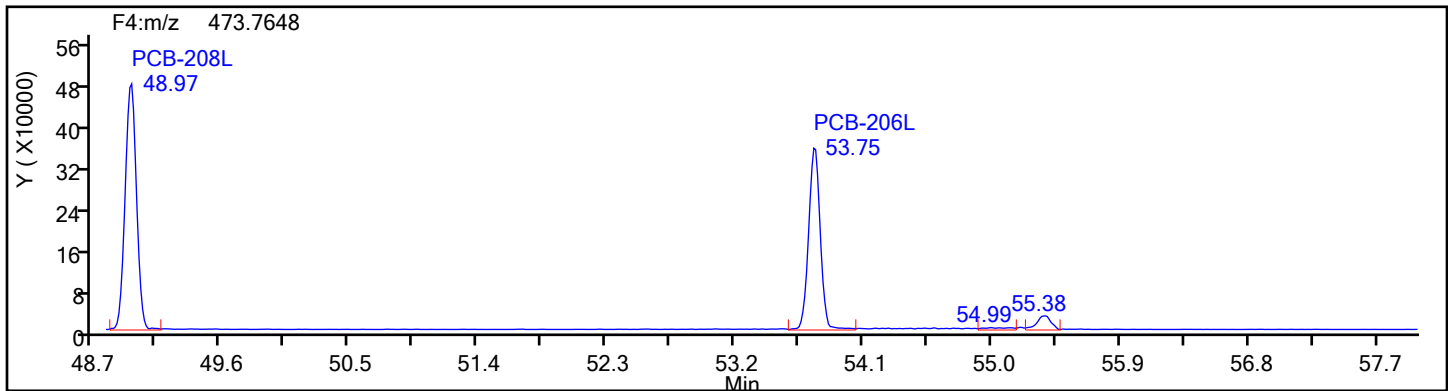
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

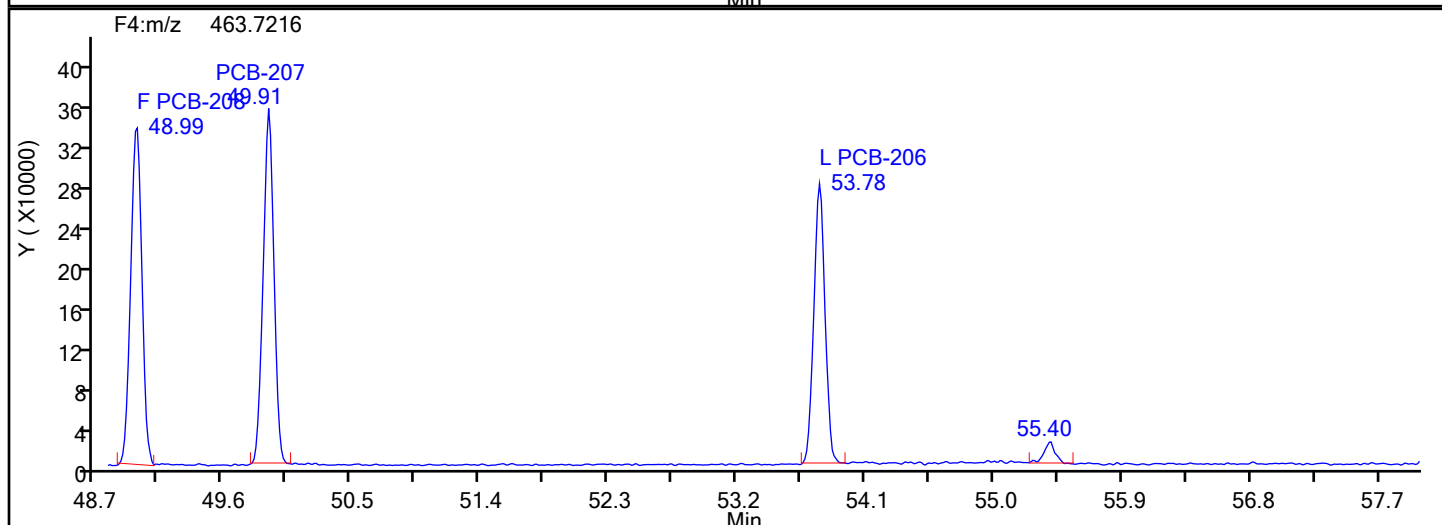
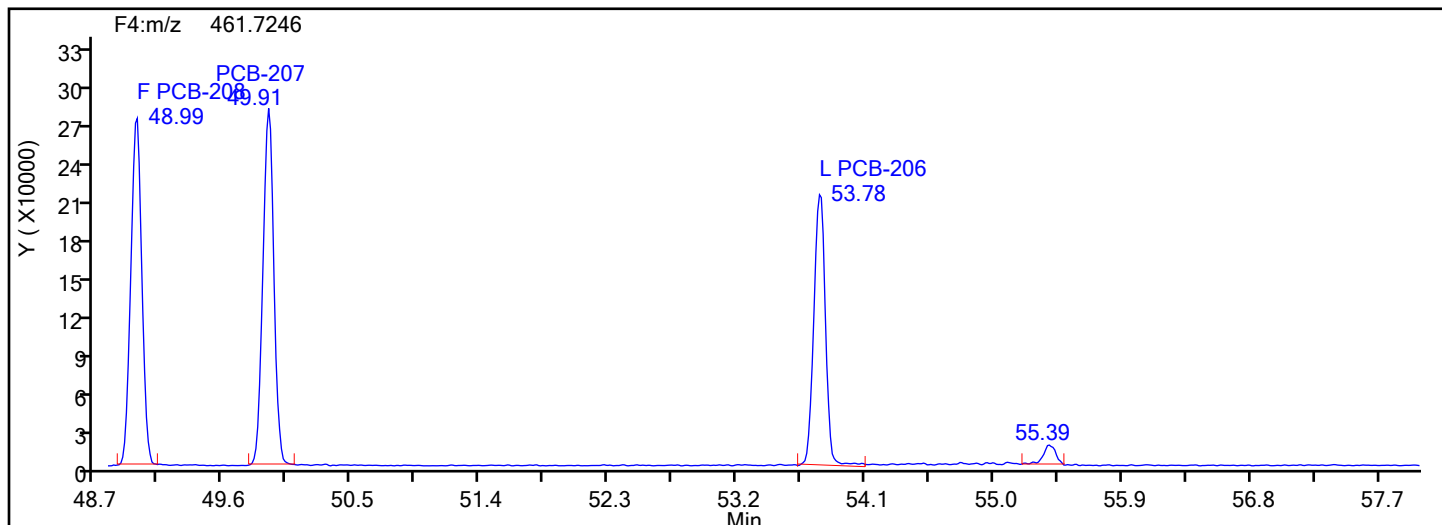
Worklist#: 87536

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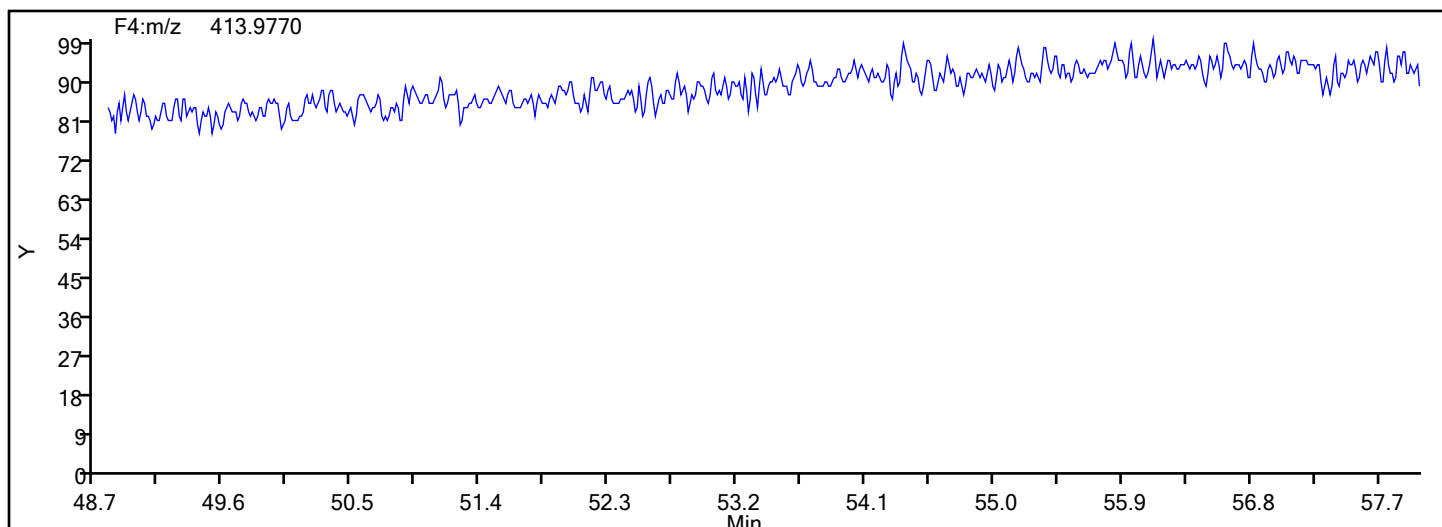
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

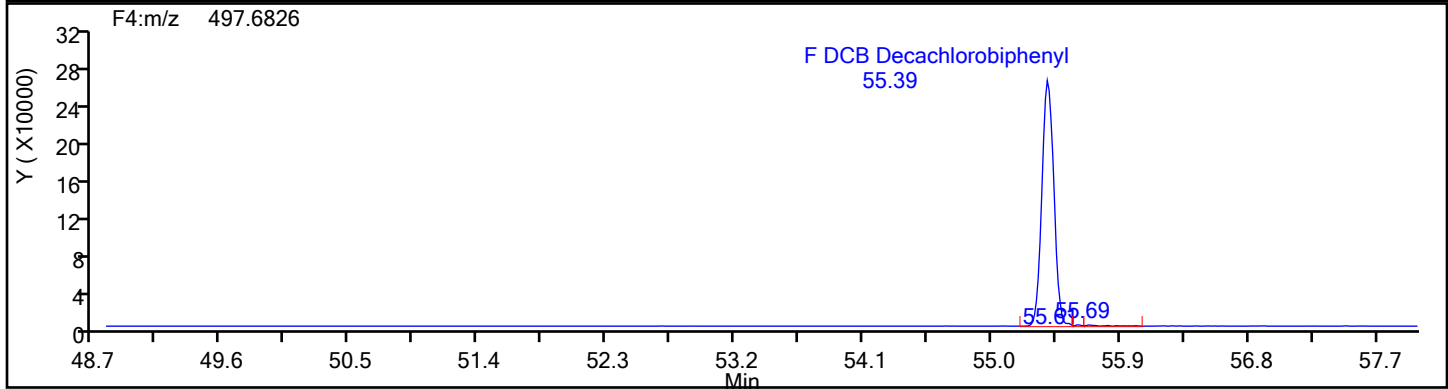
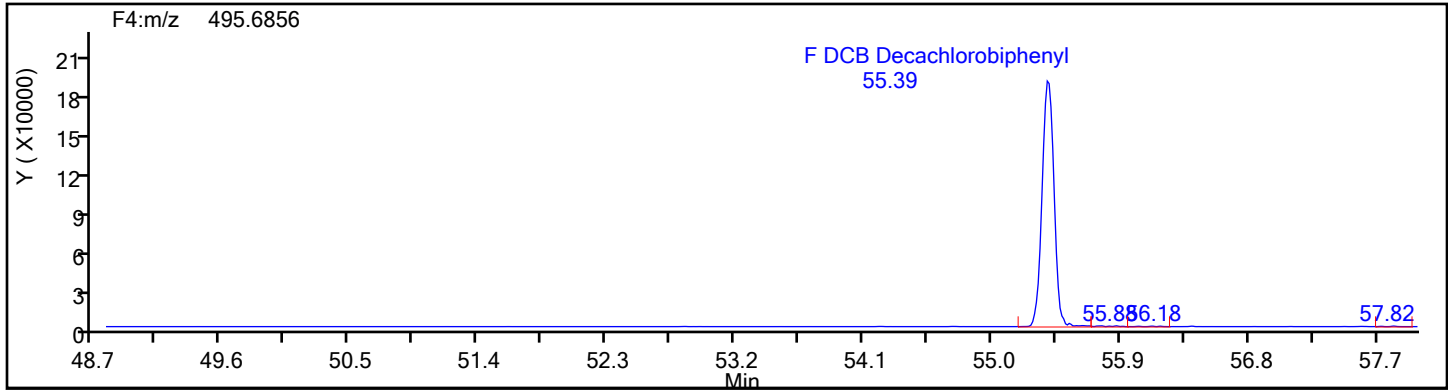
Worklist#: 87536

Sample Line#: 1

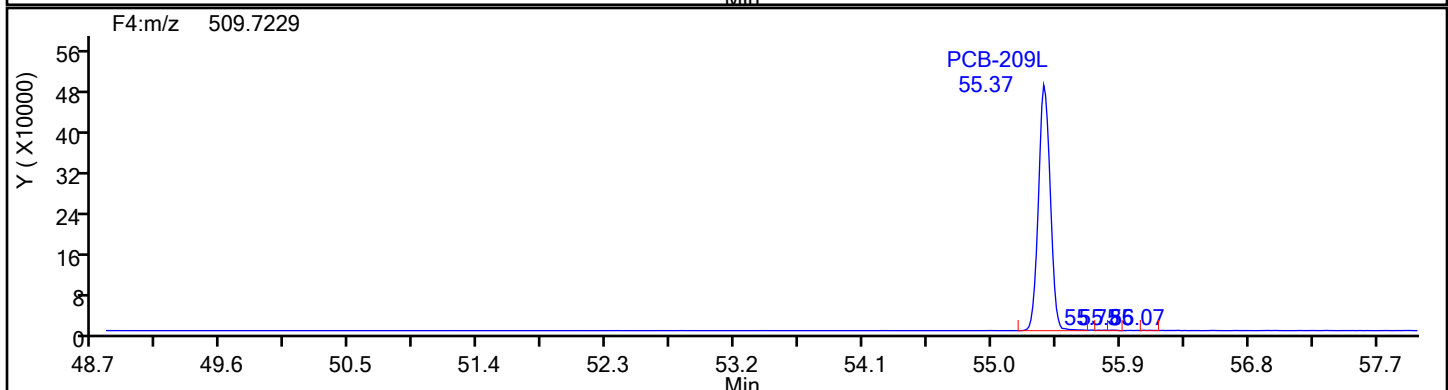
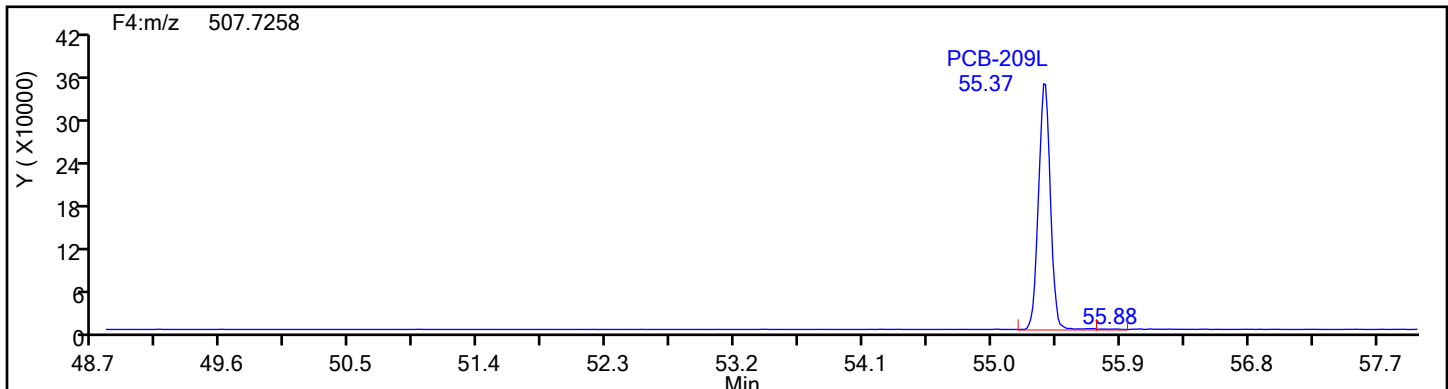
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33034.b\d2240611c2a.d

Injection Date: 11-Jun-2024 21:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

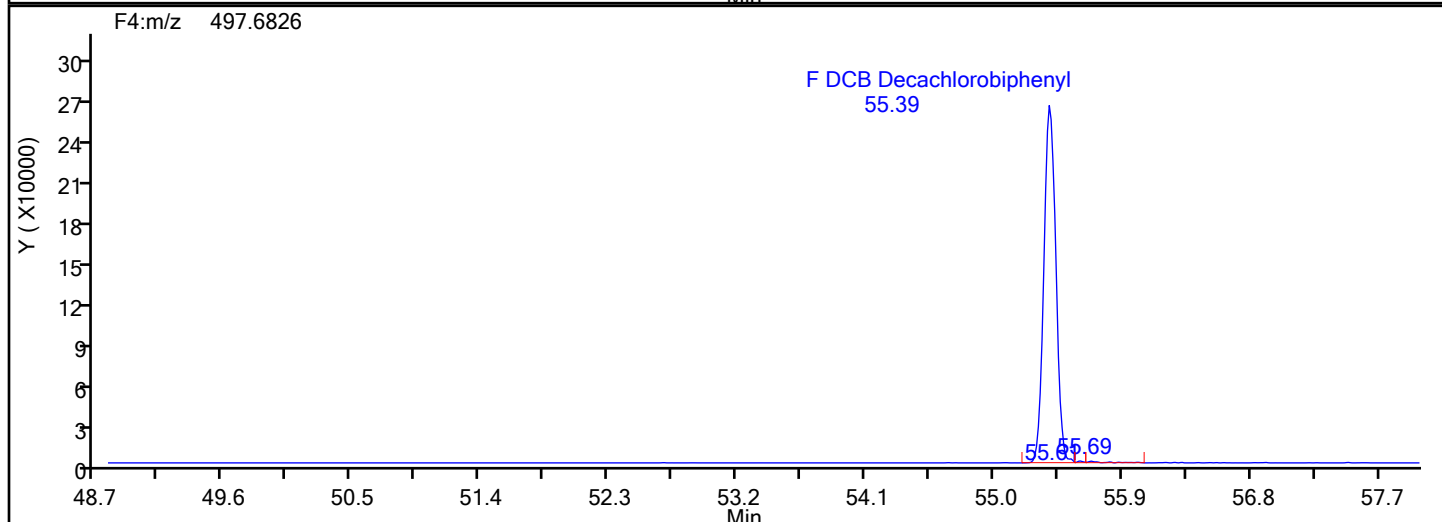
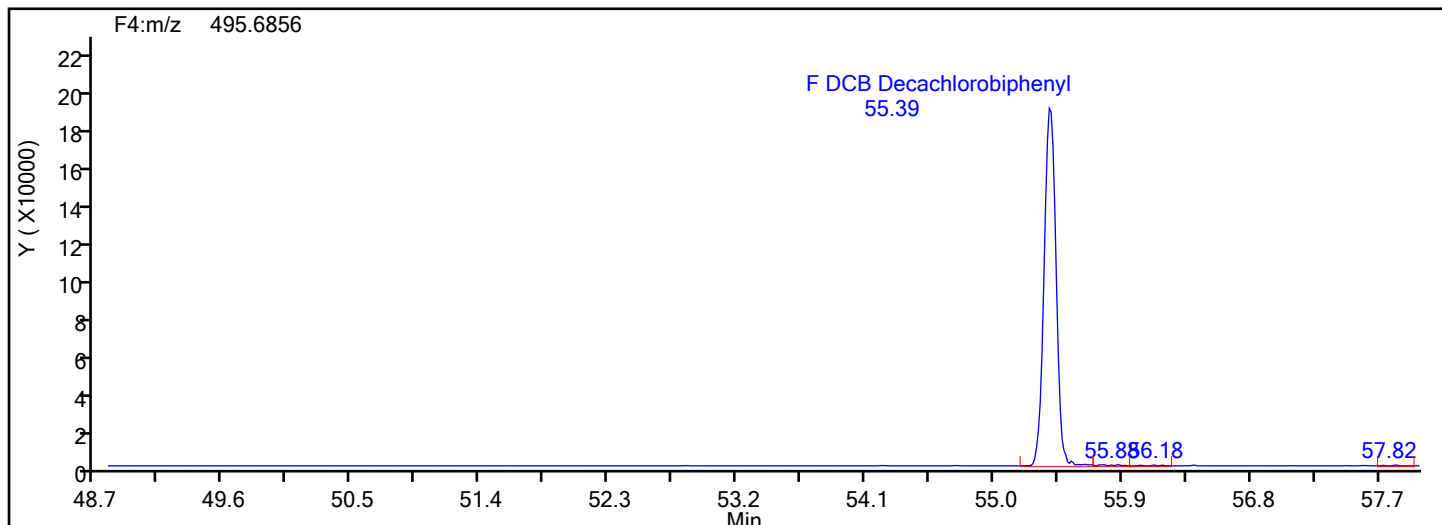
Worklist#: 87536

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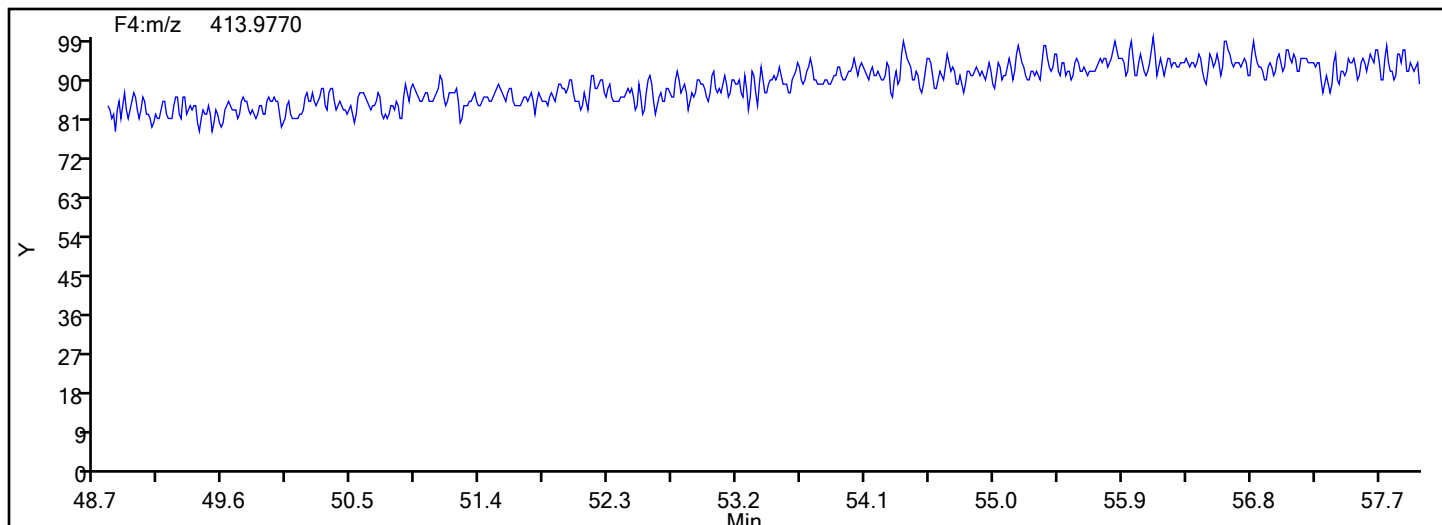
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-87571/1 Calibration Date: 06/12/2024 11:22
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240612c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1	AveID	1.219	1.223		50.2	50.0	0.3	25.0
PCB-2	AveID	1.181	1.228		52.0	50.0	4.1	25.0
PCB-3	AveID	1.221	1.233		50.5	50.0	1.0	25.0
PCB-4	AveID	1.282	1.267		49.4	50.0	-1.2	25.0
PCB-10	AveID	1.315	1.321		50.3	50.0	0.5	25.0
PCB-9	AveID	1.422	1.462		51.4	50.0	2.8	25.0
PCB-7	AveID	1.413	1.416		50.1	50.0	0.2	25.0
PCB-6	AveID	1.542	1.560		50.6	50.0	1.2	25.0
PCB-5	AveID	1.339	1.360		50.8	50.0	1.5	25.0
PCB-8	AveID	1.589	1.620		51.0	50.0	2.0	25.0
PCB-19	AveID	1.281	1.290		50.4	50.0	0.7	25.0
PCB-14	AveID	1.402	1.366		48.7	50.0	-2.6	25.0
PCB-18	AveID	1.765	1.771		100	100	0.3	25.0
PCB-18/30	AveID	1.765	1.771		100	100	0.3	25.0
PCB-30	AveID	1.765	1.771		100	100	0.3	25.0
PCB-11	AveID	1.295	1.271		49.1	50.0	-1.9	25.0
PCB-17	AveID	1.243	1.213		48.8	50.0	-2.4	25.0
PCB-12	AveID	1.336	1.305		97.7	100	-2.3	25.0
PCB-12/13	AveID	1.336	1.305		97.7	100	-2.3	25.0
PCB-13	AveID	1.336	1.305		97.7	100	-2.3	25.0
PCB-27	AveID	1.833	1.890		51.6	50.0	3.1	25.0
PCB-24	AveID	1.678	1.663		49.6	50.0	-0.9	25.0
PCB-16	AveID	1.129	1.161		51.5	50.0	2.9	25.0
PCB-15	AveID	1.290	1.275		49.4	50.0	-1.2	25.0
PCB-54	AveID	1.273	1.263		49.6	50.0	-0.8	25.0
PCB-32	AveID	1.832	1.869		51.0	50.0	2.0	25.0
PCB-34	AveID	1.128	1.153		51.1	50.0	2.2	25.0
PCB-23	AveID	1.081	1.101		50.9	50.0	1.8	25.0
PCB-26	AveID	1.125	1.144		102	100	1.6	25.0
PCB-26/29	AveID	1.125	1.144		102	100	1.6	25.0
PCB-29	AveID	1.125	1.144		102	100	1.6	25.0
PCB-25	AveID	1.273	1.319		51.8	50.0	3.6	25.0
PCB-50	AveID	0.8578	0.8182		95.4	100	-4.6	25.0
PCB-50/53	AveID	0.8578	0.8182		95.4	100	-4.6	25.0
PCB-53	AveID	0.8578	0.8182		95.4	100	-4.6	25.0
PCB-31	AveID	1.153	1.173		50.9	50.0	1.7	25.0
PCB-20	AveID	1.172	1.165		99.4	100	-0.6	25.0
PCB-20/28	AveID	1.172	1.165		99.4	100	-0.6	25.0
PCB-28	AveID	1.172	1.165		99.4	100	-0.6	25.0
PCB-21	AveID	1.075	1.087		101	100	1.2	25.0
PCB-21/33	AveID	1.075	1.087		101	100	1.2	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-87571/1 Calibration Date: 06/12/2024 11:22
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240612c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-33	AveID	1.075	1.087		101	100	1.2	25.0
PCB-45	AveID	0.8264	0.7876		95.3	100	-4.7	25.0
PCB-45/51	AveID	0.8264	0.7876		95.3	100	-4.7	25.0
PCB-51	AveID	0.8264	0.7876		95.3	100	-4.7	25.0
PCB-46	AveID	0.7101	0.6572		46.3	50.0	-7.5	25.0
PCB-22	AveID	1.193	1.197		50.2	50.0	0.3	25.0
PCB-52	AveID	0.9194	0.8895		48.4	50.0	-3.3	25.0
PCB-43	AveID	1.033	1.007		97.5	100	-2.5	25.0
PCB-43/73	AveID	1.033	1.007		97.5	100	-2.5	25.0
PCB-73	AveID	1.033	1.007		97.5	100	-2.5	25.0
PCB-36	AveID	1.107	1.115		50.4	50.0	0.7	25.0
PCB-49	AveID	1.069	1.008		94.4	100	-5.6	25.0
PCB-49/69	AveID	1.069	1.008		94.4	100	-5.6	25.0
PCB-69	AveID	1.069	1.008		94.4	100	-5.6	25.0
PCB-39	AveID	1.158	1.171		50.6	50.0	1.1	25.0
PCB-48	AveID	0.8399	0.8098		48.2	50.0	-3.6	25.0
PCB-104	AveID	1.009	1.023		50.7	50.0	1.4	25.0
PCB-44	AveID	0.9731	0.9159		141	150	-5.9	25.0
PCB-44/47/65	AveID	0.9731	0.9159		141	150	-5.9	25.0
PCB-47	AveID	0.9731	0.9159		141	150	-5.9	25.0
PCB-65	AveID	0.9731	0.9159		141	150	-5.9	25.0
PCB-38	AveID	1.084	1.028		47.4	50.0	-5.2	25.0
PCB-59	AveID	1.185	1.067		135	150	-9.9	25.0
PCB-59/62/75	AveID	1.185	1.067		135	150	-9.9	25.0
PCB-62	AveID	1.185	1.067		135	150	-9.9	25.0
PCB-75	AveID	1.185	1.067		135	150	-9.9	25.0
PCB-96	AveID	1.094	1.041		47.6	50.0	-4.8	25.0
PCB-42	AveID	0.8097	0.7772		48.0	50.0	-4.0	25.0
PCB-35	AveID	1.130	1.170		51.8	50.0	3.6	25.0
PCB-40	AveID	0.8863	0.8435		143	150	-4.8	25.0
PCB-40/41/71	AveID	0.8863	0.8435		143	150	-4.8	25.0
PCB-41	AveID	0.8863	0.8435		143	150	-4.8	25.0
PCB-71	AveID	0.8863	0.8435		143	150	-4.8	25.0
PCB-37	AveID	1.144	1.142		49.9	50.0	-0.2	25.0
PCB-64	AveID	1.178	1.111		47.2	50.0	-5.6	25.0
PCB-72	AveID	1.094	1.120		51.2	50.0	2.4	25.0
PCB-103	AveID	0.8741	0.9319		53.3	50.0	6.6	25.0
PCB-68	AveID	1.253	1.264		50.4	50.0	0.9	25.0
PCB-94	AveID	0.7640	0.7197		47.1	50.0	-5.8	25.0
PCB-57	AveID	1.082	1.060		49.0	50.0	-2.0	25.0
PCB-95	AveID	0.8033	0.8033		50.0	50.0	0.0	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-87571/1 Calibration Date: 06/12/2024 11:22
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240612c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-58	AveID	1.325	1.300		49.0	50.0	-1.9	25.0
PCB-100	AveID	0.8429	0.8089		96.0	100	-4.0	25.0
PCB-93	AveID	0.8429	0.8089		96.0	100	-4.0	25.0
PCB-93/100	AveID	0.8429	0.8089		96.0	100	-4.0	25.0
PCB-67	AveID	1.423	1.294		45.5	50.0	-9.1	25.0
PCB-102	AveID	0.8262	0.8152		98.7	100	-1.3	25.0
PCB-98	AveID	0.8262	0.8152		98.7	100	-1.3	25.0
PCB-98/102	AveID	0.8262	0.8152		98.7	100	-1.3	25.0
PCB-63	AveID	1.124	1.072		47.7	50.0	-4.6	25.0
PCB-88	AveID	0.8013	0.7885		98.4	100	-1.6	25.0
PCB-88/91	AveID	0.8013	0.7885		98.4	100	-1.6	25.0
PCB-91	AveID	0.8013	0.7885		98.4	100	-1.6	25.0
PCB-61	AveID	1.261	1.175		186	200	-6.9	25.0
PCB-61/70/74/76	AveID	1.261	1.175		186	200	-6.9	25.0
PCB-70	AveID	1.261	1.175		186	200	-6.9	25.0
PCB-74	AveID	1.261	1.175		186	200	-6.9	25.0
PCB-76	AveID	1.261	1.175		186	200	-6.9	25.0
PCB-84	AveID	0.7299	0.7144		48.9	50.0	-2.1	25.0
PCB-66	AveID	1.258	1.241		49.3	50.0	-1.3	25.0
PCB-55	AveID	1.324	1.284		48.5	50.0	-3.0	25.0
PCB-89	AveID	0.7798	0.7389		47.4	50.0	-5.3	25.0
PCB-56	AveID	1.233	1.182		47.9	50.0	-4.1	25.0
PCB-121	AveID	1.296	1.270		49.0	50.0	-2.1	25.0
PCB-60	AveID	1.123	1.046		46.6	50.0	-6.9	25.0
PCB-92	AveID	0.8546	0.8553		50.0	50.0	0.0	25.0
PCB-80	AveID	1.324	1.295		48.9	50.0	-2.2	25.0
PCB-155	AveID	0.9444	0.9303		49.3	50.0	-1.5	25.0
PCB-152	AveID	0.9895	0.9950		50.3	50.0	0.5	25.0
PCB-101	AveID	0.9550	0.9329		147	150	-2.3	25.0
PCB-113	AveID	0.9550	0.9329		147	150	-2.3	25.0
PCB-90	AveID	0.9550	0.9329		147	150	-2.3	25.0
PCB-90/101/113	AveID	0.9550	0.9329		147	150	-2.3	25.0
PCB-150	AveID	1.013	1.031		50.9	50.0	1.7	25.0
PCB-136	AveID	1.012	1.023		50.6	50.0	1.1	25.0
PCB-83	AveID	0.8385	0.8410		100	100	0.3	25.0
PCB-83/99	AveID	0.8385	0.8410		100	100	0.3	25.0
PCB-99	AveID	0.8385	0.8410		100	100	0.3	25.0
PCB-112	AveID	1.411	1.373		48.7	50.0	-2.7	25.0
PCB-145	AveID	0.9685	0.9673		49.9	50.0	-0.1	25.0
PCB-109	AveID	1.047	1.026		294	300	-2.0	25.0
PCB-119	AveID	1.047	1.026		294	300	-2.0	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-87571/1 Calibration Date: 06/12/2024 11:22

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240612c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-125	AveID	1.047	1.026		294	300	-2.0	25.0
PCB-79	AveID	1.437	1.317		45.8	50.0	-8.3	25.0
PCB-86	AveID	1.047	1.026		294	300	-2.0	25.0
PCB-86/87/97/109/119/125	AveID	1.047	1.026		294	300	-2.0	25.0
PCB-87	AveID	1.047	1.026		294	300	-2.0	25.0
PCB-97	AveID	1.047	1.026		294	300	-2.0	25.0
PCB-78	AveID	1.162	1.087		46.8	50.0	-6.4	25.0
PCB-116	AveID	1.041	1.021		147	150	-1.9	25.0
PCB-117	AveID	1.041	1.021		147	150	-1.9	25.0
PCB-85	AveID	1.041	1.021		147	150	-1.9	25.0
PCB-85/116/117	AveID	1.041	1.021		147	150	-1.9	25.0
PCB-110	AveID	1.192	1.196		100	100	0.3	25.0
PCB-110/115	AveID	1.192	1.196		100	100	0.3	25.0
PCB-115	AveID	1.192	1.196		100	100	0.3	25.0
PCB-81	AveID	1.080	1.020		47.2	50.0	-5.5	25.0
PCB-82	AveID	0.8303	0.8183		49.3	50.0	-1.4	25.0
PCB-148	AveID	0.7603	0.7528		49.5	50.0	-1.0	25.0
PCB-77	AveID	1.084	1.050		48.5	50.0	-3.1	25.0
PCB-111	AveID	1.213	1.180		48.7	50.0	-2.7	25.0
PCB-135	AveID	0.7256	0.7269		100	100	0.2	25.0
PCB-135/151	AveID	0.7256	0.7269		100	100	0.2	25.0
PCB-151	AveID	0.7256	0.7269		100	100	0.2	25.0
PCB-120	AveID	1.476	1.408		47.7	50.0	-4.7	25.0
PCB-154	AveID	0.8129	0.8281		50.9	50.0	1.9	25.0
PCB-144	AveID	0.7852	0.7763		49.4	50.0	-1.1	25.0
PCB-147	AveID	0.8950	0.8534		95.4	100	-4.6	25.0
PCB-147/149	AveID	0.8950	0.8534		95.4	100	-4.6	25.0
PCB-149	AveID	0.8950	0.8534		95.4	100	-4.6	25.0
PCB-134	AveID	0.7967	0.7489		94.0	100	-6.0	25.0
PCB-134/143	AveID	0.7967	0.7489		94.0	100	-6.0	25.0
PCB-143	AveID	0.7967	0.7489		94.0	100	-6.0	25.0
PCB-108	AveID	1.141	1.089		95.5	100	-4.5	25.0
PCB-108/124	AveID	1.141	1.089		95.5	100	-4.5	25.0
PCB-124	AveID	1.141	1.089		95.5	100	-4.5	25.0
PCB-139	AveID	0.8769	0.8003		91.3	100	-8.7	25.0
PCB-139/140	AveID	0.8769	0.8003		91.3	100	-8.7	25.0
PCB-140	AveID	0.8769	0.8003		91.3	100	-8.7	25.0
PCB-107	AveID	1.212	1.210		49.9	50.0	-0.2	25.0
PCB-131	AveID	0.7503	0.7032		46.9	50.0	-6.3	25.0
PCB-123	AveID	1.072	1.081		50.4	50.0	0.8	25.0
PCB-106	AveID	1.084	1.110		51.2	50.0	2.4	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-87571/1 Calibration Date: 06/12/2024 11:22
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240612c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-142	AveID	0.7507	0.7307		48.7	50.0	-2.7	25.0
PCB-118	AveID	1.206	1.187		49.2	50.0	-1.6	25.0
PCB-132	AveID	0.7489	0.6843		45.7	50.0	-8.6	25.0
PCB-122	AveID	0.9567	0.9843		51.4	50.0	2.9	25.0
PCB-114	AveID	1.084	1.116		51.5	50.0	2.9	25.0
PCB-188	AveID	1.135	1.111		48.9	50.0	-2.1	25.0
PCB-133	AveID	0.8096	0.7463		46.1	50.0	-7.8	25.0
PCB-179	AveID	1.428	1.292		45.3	50.0	-9.5	25.0
PCB-165	AveID	1.025	0.9541		46.6	50.0	-6.9	25.0
PCB-105	AveID	1.188	1.223		51.5	50.0	2.9	25.0
PCB-146	AveID	0.9637	0.9365		48.6	50.0	-2.8	25.0
PCB-184	AveID	1.367	1.285		47.0	50.0	-6.0	25.0
PCB-161	AveID	1.129	1.009		44.7	50.0	-10.7	25.0
PCB-176	AveID	1.233	1.137		46.1	50.0	-7.8	25.0
PCB-153	AveID	1.094	1.034		94.6	100	-5.4	25.0
PCB-153/168	AveID	1.094	1.034		94.6	100	-5.4	25.0
PCB-168	AveID	1.094	1.034		94.6	100	-5.4	25.0
PCB-141	AveID	0.8755	0.7985		45.6	50.0	-8.8	25.0
PCB-186	AveID	1.474	1.420		48.2	50.0	-3.7	25.0
PCB-130	AveID	0.7051	0.6573		46.6	50.0	-6.8	25.0
PCB-127	AveID	1.139	1.154		50.7	50.0	1.3	25.0
PCB-137	AveID	0.7767	0.7304		47.0	50.0	-6.0	25.0
PCB-164	AveID	1.038	1.003		48.3	50.0	-3.4	25.0
PCB-129	AveID	0.9464	0.8987		190	200	-5.0	25.0
PCB-129/138/160/163	AveID	0.9464	0.8987		190	200	-5.0	25.0
PCB-138	AveID	0.9464	0.8987		190	200	-5.0	25.0
PCB-160	AveID	0.9464	0.8987		190	200	-5.0	25.0
PCB-163	AveID	0.9464	0.8987		190	200	-5.0	25.0
PCB-158	AveID	1.311	1.222		46.6	50.0	-6.8	25.0
PCB-178	AveID	0.8946	0.8661		48.4	50.0	-3.2	25.0
PCB-175	AveID	0.9524	0.9218		48.4	50.0	-3.2	25.0
PCB-126	AveID	1.098	1.139		51.9	50.0	3.8	25.0
PCB-128	AveID	0.9829	0.9737		99.1	100	-0.9	25.0
PCB-128/166	AveID	0.9829	0.9737		99.1	100	-0.9	25.0
PCB-166	AveID	0.9829	0.9737		99.1	100	-0.9	25.0
PCB-187	AveID	1.102	1.094		49.6	50.0	-0.7	25.0
PCB-182	AveID	0.9247	0.9491		51.3	50.0	2.6	25.0
PCB-183	AveID	0.9825	0.9341		95.1	100	-4.9	25.0
PCB-183/185	AveID	0.9825	0.9341		95.1	100	-4.9	25.0
PCB-185	AveID	0.9825	0.9341		95.1	100	-4.9	25.0
PCB-174	AveID	0.9642	0.9876		51.2	50.0	2.4	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-87571/1 Calibration Date: 06/12/2024 11:22
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240612c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-159	AveID	1.386	1.315		47.5	50.0	-5.1	25.0
PCB-162	AveID	1.257	1.185		47.1	50.0	-5.7	25.0
PCB-177	AveID	0.9773	0.9758		49.9	50.0	-0.2	25.0
PCB-202	AveID	1.036	1.047		50.5	50.0	1.1	25.0
PCB-167	AveID	1.116	1.097		49.2	50.0	-1.7	25.0
PCB-181	AveID	0.9505	0.9236		48.6	50.0	-2.8	25.0
PCB-171	AveID	0.9336	0.8817		94.4	100	-5.6	25.0
PCB-171/173	AveID	0.9336	0.8817		94.4	100	-5.6	25.0
PCB-173	AveID	0.9336	0.8817		94.4	100	-5.6	25.0
PCB-201	AveID	0.9754	1.005		51.5	50.0	3.0	25.0
PCB-156	AveID	1.110	1.104		99.5	100	-0.5	25.0
PCB-156/157	AveID	1.110	1.104		99.5	100	-0.5	25.0
PCB-157	AveID	1.110	1.104		99.5	100	-0.5	25.0
PCB-204	AveID	1.049	1.084		51.7	50.0	3.4	25.0
PCB-197	AveID	1.146	1.119		48.8	50.0	-2.4	25.0
PCB-200	AveID	1.007	1.055		52.4	50.0	4.8	25.0
PCB-172	AveID	0.8519	0.8895		52.2	50.0	4.4	25.0
PCB-192	AveID	1.346	1.442		53.6	50.0	7.1	25.0
PCB-180	AveID	1.168	1.195		102	100	2.4	25.0
PCB-180/193	AveID	1.168	1.195		102	100	2.4	25.0
PCB-193	AveID	1.168	1.195		102	100	2.4	25.0
PCB-191	AveID	1.289	1.356		52.6	50.0	5.2	25.0
PCB-170	AveID	1.187	1.153		48.6	50.0	-2.8	25.0
PCB-190	AveID	1.332	1.402		52.6	50.0	5.2	25.0
PCB-169	AveID	1.163	1.157		49.8	50.0	-0.5	25.0
PCB-198	AveID	0.8698	0.9176		106	100	5.5	25.0
PCB-198/199	AveID	0.8698	0.9176		106	100	5.5	25.0
PCB-199	AveID	0.8698	0.9176		106	100	5.5	25.0
PCB-196	AveID	0.7806	0.8624		55.2	50.0	10.5	25.0
PCB-203	AveID	0.9292	1.014		54.6	50.0	9.1	25.0
PCB-208	AveID	1.137	1.097		48.2	50.0	-3.5	25.0
PCB-195	AveID	0.8263	0.8433		51.0	50.0	2.1	25.0
PCB-189	AveID	0.9633	0.9899		51.4	50.0	2.8	25.0
PCB-207	AveID	1.376	1.315		47.8	50.0	-4.4	25.0
PCB-194	AveID	0.9735	0.9820		50.4	50.0	0.9	25.0
PCB-205	AveID	1.088	1.073		49.3	50.0	-1.4	25.0
PCB-206	AveID	1.335	1.219		45.7	50.0	-8.7	25.0
PCB-209	AveID	1.100	1.116		50.7	50.0	1.4	25.0
PCB-1L	Ave	1.611	1.469		91.2	100	-8.8	30.0
PCB-3L	Ave	1.589	1.449		91.2	100	-8.8	30.0
PCB-4L	Ave	0.6475	0.6355		98.2	100	-1.9	30.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-87571/1 Calibration Date: 06/12/2024 11:22

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240612c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-19L	Ave	0.6285	0.6267		99.7	100	-0.3	30.0
PCB-15L	Ave	1.079	1.026		95.1	100	-4.9	30.0
PCB-54L	Ave	0.5562	0.6142		110	100	10.4	30.0
PCB-104L	Ave	1.216	1.237		102	100	1.7	30.0
PCB-37L	Ave	0.8749	0.8778		100	100	0.3	30.0
PCB-155L	Ave	1.085	1.141		105	100	5.1	30.0
PCB-81L	Ave	1.247	1.262		101	100	1.2	30.0
PCB-77L	Ave	1.321	1.321		100	100	0.0	30.0
PCB-123L	Ave	0.9731	0.9535		98.0	100	-2.0	30.0
PCB-118L	Ave	1.010	1.026		102	100	1.6	30.0
PCB-114L	Ave	0.9949	0.996		100	100	0.1	30.0
PCB-188L	Ave	1.313	1.239		94.3	100	-5.7	30.0
PCB-105L	Ave	0.9514	0.9586		101	100	0.8	30.0
PCB-126L	Ave	0.9439	0.9820		104	100	4.0	30.0
PCB-202L	Ave	0.9818	0.9887		101	100	0.7	30.0
PCB-167L	Ave	1.257	1.262		100	100	0.3	30.0
PCB-156L	Ave	1.211	1.250		207	200	3.3	30.0
PCB-156L/157L	Ave	1.211	1.250		207	200	3.3	30.0
PCB-157L	Ave	1.211	1.250		207	200	3.3	30.0
PCB-170L	Ave	0.8362	0.8895		106	100	6.4	30.0
PCB-169L	Ave	1.244	1.323		106	100	6.4	30.0
PCB-208L	Ave	0.9576	0.9754		102	100	1.9	30.0
PCB-189L	Ave	1.441	1.370		95.1	100	-4.9	30.0
PCB-205L	Ave	1.179	1.156		98.1	100	-1.9	30.0
PCB-206L	Ave	0.6947	0.7383		106	100	6.3	30.0
PCB-209L	Ave	0.6669	0.7494		112	100	12.4	30.0
PCB-8L	AveID	1.207	1.170		48.5	50.0	-3.0	25.0
PCB-28L	Ave	1.049	0.9790		46.7	50.0	-6.7	30.0
PCB-95L	AveID	0.7218	0.6973		48.3	50.0	-3.4	25.0
PCB-79L	AveID	1.002	0.9793		48.9	50.0	-2.3	25.0
PCB-111L	Ave	1.370	1.277		46.6	50.0	-6.8	30.0
PCB-153L	AveID	0.9169	0.7781		42.4	50.0	-15.1	25.0
PCB-178L	Ave	1.031	0.8993		43.6	50.0	-12.8	30.0

Resolution Check Report (DFS SN: 3190)

Date: 12 Jun 2024 11:04
MID Experiment: ResCheck_1668
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43KnxPCB.lua
Status: RESOLUTION PASSED

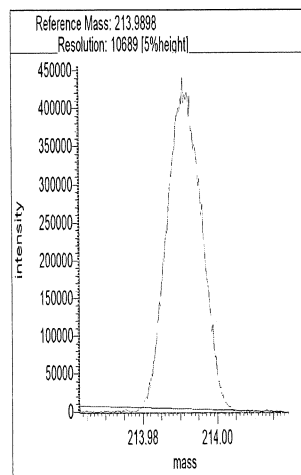
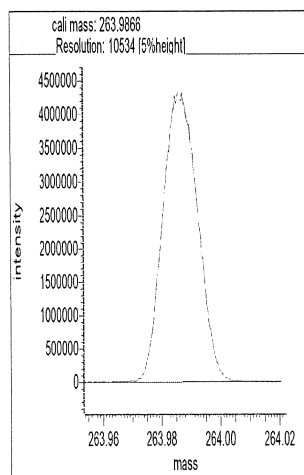
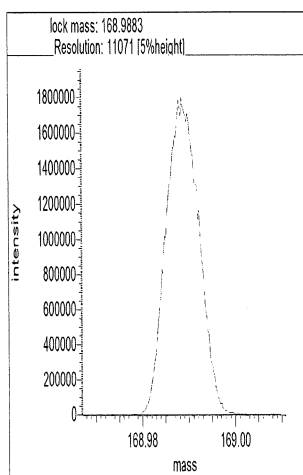
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Segment 1

Lock mass 168.9883 [m/z] Resolution: 11071 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 10534 [5%height]

Ref. mass 213.9898 [m/z] Resolution: 10689 [5%height]

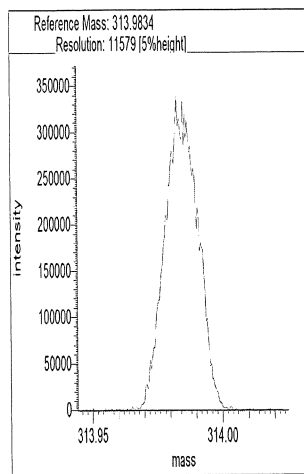
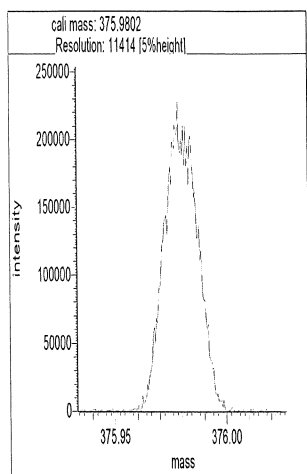
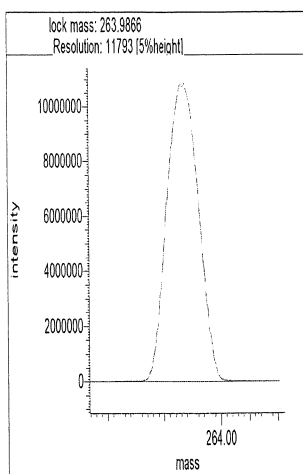


Segment 2

Lock mass 263.9866 [m/z] Resolution: 11793 [5%height]

Cali. mass 375.9802 [m/z] Resolution: 11414 [5%height]

Ref. mass 313.9834 [m/z] Resolution: 11579 [5%height]

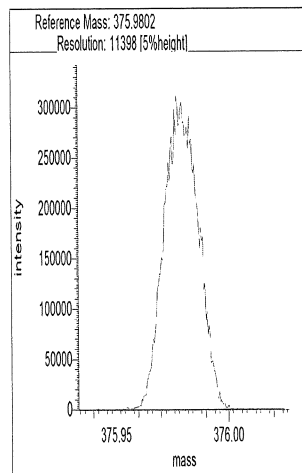
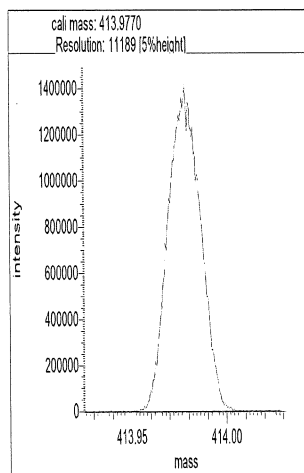
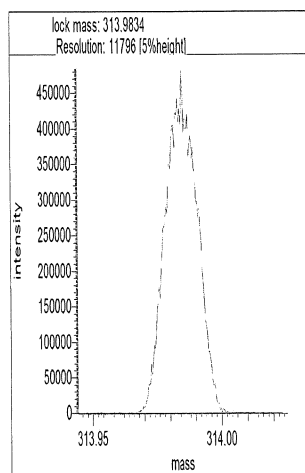


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11796 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 11189 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 11398 [5%height]

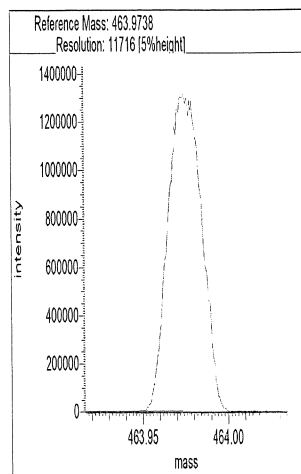
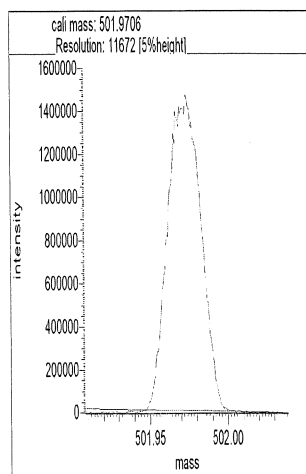
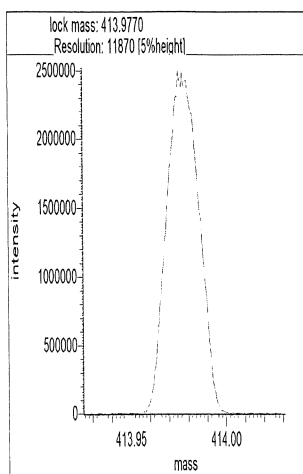


Segment 4

Lock mass 413.9770 [m/z] Resolution: 11870 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 11672 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 11716 [5%height]



Reports

11:14:06: Peak matching procedure started
11:14:07:
11:14:07: Reference mass: 168.98827
11:14:08: Sample mass: 214.0
11:14:08:
11:14:09: Finding reference mass
11:14:10: Finding sample mass
11:14:10:
11:14:16: [1] 213.9900 amu, mean: 213.9900
11:14:19: [2] 213.9899 amu, mean: 213.9900 SD: 0.02 mmu or: 0.10 ppm
11:14:23: [3] 213.9902 amu, mean: 213.9900 SD: 0.16 mmu or: 0.75 ppm
11:14:26: [4] 213.9902 amu, mean: 213.9901 SD: 0.16 mmu or: 0.77 ppm
11:14:26:
11:14:26: Stop requested. Please wait for procedure to finish.
11:14:26:
11:14:29:
11:14:29: Peakmatching stopped


Signature

 6/12/24

Reports

11:14:40: Peak matching procedure started
11:14:41:
11:14:41: Reference mass: 213.98975
11:14:42: Sample mass: 264.0
11:14:42:
11:14:43: Finding reference mass
11:14:44: Finding sample mass
11:14:44:
11:14:50: [1] 263.9868 amu, mean: 263.9868
11:14:53: [2] 263.9868 amu, mean: 263.9868 SD: 0.03 mmu or: 0.11 ppm
11:14:56: [3] 263.9867 amu, mean: 263.9868 SD: 0.07 mmu or: 0.25 ppm
11:15:00: [4] 263.9868 amu, mean: 263.9868 SD: 0.05 mmu or: 0.20 ppm
11:15:00:
11:15:00: Stop requested. Please wait for procedure to finish.
11:15:00:
11:15:03:
11:15:04: Peakmatching stopped

Signature

 6/12/24

Reports

11:16:16: Peak matching procedure started
11:16:17:
11:16:17: Reference mass: 263.98656
11:16:18: Sample mass: 314.0
11:16:18:
11:16:19: Finding reference mass
11:16:20: Finding sample mass
11:16:20:
11:16:26: [1] 313.9833 amu, mean: 313.9833
11:16:29: [2] 313.9837 amu, mean: 313.9835 SD: 0.33 mmu or: 1.06 ppm
11:16:33: [3] 313.9835 amu, mean: 313.9835 SD: 0.24 mmu or: 0.75 ppm
11:16:36: [4] 313.9839 amu, mean: 313.9836 SD: 0.26 mmu or: 0.84 ppm
11:16:37:
11:16:37: Stop requested. Please wait for procedure to finish.
11:16:37:
11:16:39:
11:16:40: Peakmatching stopped

Signature

BKK 6/12/24

Reports

11:16:57: Peak matching procedure started
11:16:57:
11:16:58: Reference mass: 313.98336
11:16:58: Sample mass: 376.0
11:16:59:
11:16:59: Finding reference mass
11:17:00: Finding sample mass
11:17:01:
11:17:07: [1] 375.9797 amu, mean: 375.9797
11:17:10: [2] 375.9804 amu, mean: 375.9801 SD: 0.44 mmu or: 1.16 ppm
11:17:13: [3] 375.9806 amu, mean: 375.9802 SD: 0.46 mmu or: 1.22 ppm
11:17:16: [4] 375.9793 amu, mean: 375.9800 SD: 0.62 mmu or: 1.65 ppm
11:17:17:
11:17:17: Stop requested. Please wait for procedure to finish.
11:17:17:
11:17:20:
11:17:20: Peakmatching stopped

Signature

BKK 6/12/24

Reports

```

11:16:57: Peak matching procedure started
11:16:57:
11:16:58: Reference mass: 313.98336
11:16:58: Sample mass: 376.0
11:16:59:
11:16:59: Finding reference mass
11:17:00: Finding sample mass
11:17:01:
11:17:07: [1] 375.9797 amu, mean: 375.9797
11:17:10: [2] 375.9804 amu, mean: 375.9801 SD: 0.44 mmu or: 1.16 ppm
11:17:13: [3] 375.9806 amu, mean: 375.9802 SD: 0.46 mmu or: 1.22 ppm
11:17:16: [4] 375.9793 amu, mean: 375.9800 SD: 0.62 mmu or: 1.65 ppm
11:17:17:
11:17:17: Stop requested. Please wait for procedure to finish.
11:17:17:
11:17:20:
11:17:20: Peakmatching stopped

```

Signature

BKK 6/12/24

Reports

11:17:33: Peak matching procedure started
11:17:34:
11:17:34: Reference mass: 375.98017
11:17:35: Sample mass: 414.0
11:17:35:
11:17:36: Finding reference mass
11:17:37: Finding sample mass
11:17:37:
11:17:43: [1] 413.9770 amu, mean: 413.9770
11:17:46: [2] 413.9780 amu, mean: 413.9775 SD: 0.75 mmu or: 1.80 ppm
11:17:50: [3] 413.9779 amu, mean: 413.9776 SD: 0.57 mmu or: 1.37 ppm
11:17:53: [4] 413.9780 amu, mean: 413.9777 SD: 0.50 mmu or: 1.22 ppm
11:17:53:
11:17:53: Stop requested. Please wait for procedure to finish.
11:17:53:
11:17:56:
11:17:56: Peakmatching stopped


Signature

BLK 6/12/24

Reports

11:18:07: Peak matching procedure started
11:18:07:
11:18:08: Reference mass: 413.97698
11:18:08: Sample mass: 464.0
11:18:09:
11:18:09: Finding reference mass
11:18:10: Finding sample mass
11:18:11:
11:18:17: [1] 463.9739 amu, mean: 463.9739
11:18:20: [2] 463.9741 amu, mean: 463.9740 SD: 0.16 mmu or: 0.33 ppm
11:18:23: [3] 463.9743 amu, mean: 463.9741 SD: 0.18 mmu or: 0.40 ppm
11:18:26: [4] 463.9746 amu, mean: 463.9742 SD: 0.30 mmu or: 0.64 ppm
11:18:27:
11:18:27: Stop requested. Please wait for procedure to finish.
11:18:27:
11:18:29:
11:18:30: Peakmatching stopped


Signature

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Reports

11:18:47: Peak matching procedure started
11:18:48:
11:18:48: Reference mass: 463.97378
11:18:49: Sample mass: 502.0
11:18:49:
11:18:50: Finding reference mass
11:18:51: Finding sample mass
11:18:51:
11:18:57: [1] 501.9712 amu, mean: 501.9712
11:19:00: [2] 501.9713 amu, mean: 501.9712 SD: 0.08 mmu or: 0.16 ppm
11:19:03: [3] 501.9712 amu, mean: 501.9712 SD: 0.07 mmu or: 0.14 ppm
11:19:07: [4] 501.9706 amu, mean: 501.9710 SD: 0.33 mmu or: 0.66 ppm
11:19:07:
11:19:07: Stop requested. Please wait for procedure to finish.
11:19:07:
11:19:10:
11:19:10: Peakmatching stopped

Signature

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Resolution Check Report (DFS SN: 3190)

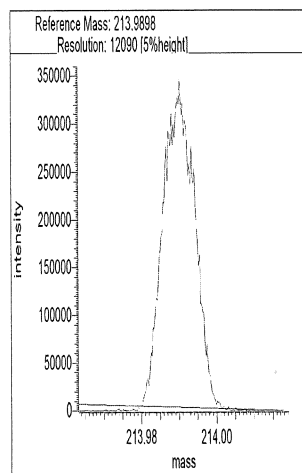
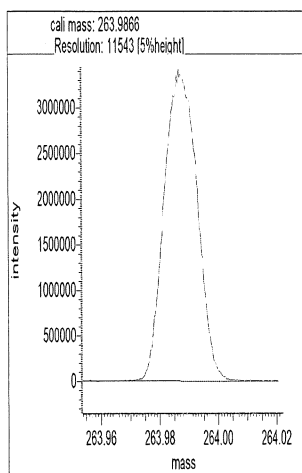
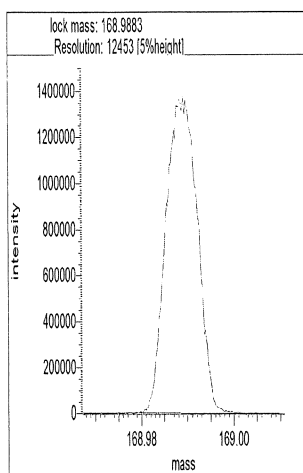
Date: 12 Jun 2024 22:26
MID Experiment: ResCheck_1668
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43KnxPCB.lua
Status: RESOLUTION PASSED

Segment 1

Lock mass 168.9883 [m/z] Resolution: 12453 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 11543 [5%height]

Ref. mass 213.9898 [m/z] Resolution: 12090 [5%height]



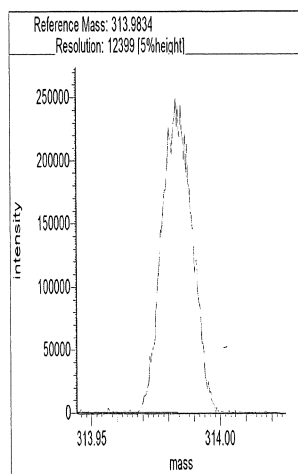
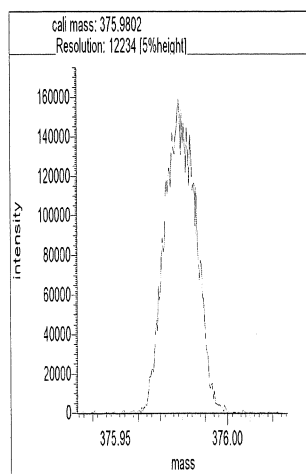
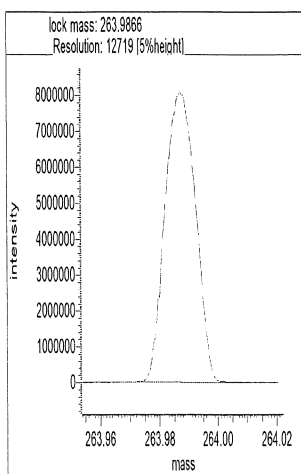
Segment 2

Lock mass 263.9866 [m/z] Resolution: 12719 [5%height]

Cali. mass 375.9802 [m/z] Resolution: 12234 [5%height]

Ref. mass 313.9834 [m/z] Resolution: 12399 [5%height]

d2240612r4

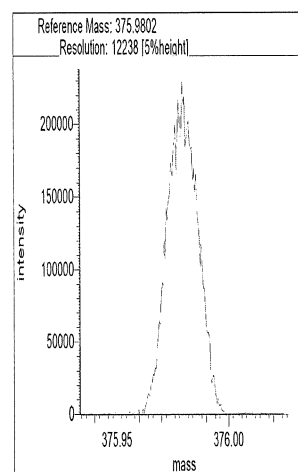
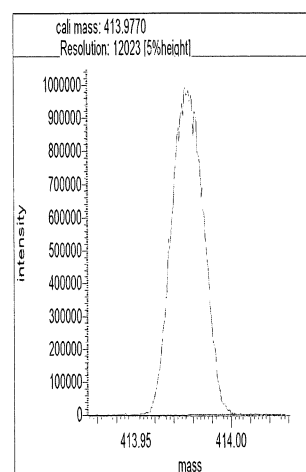
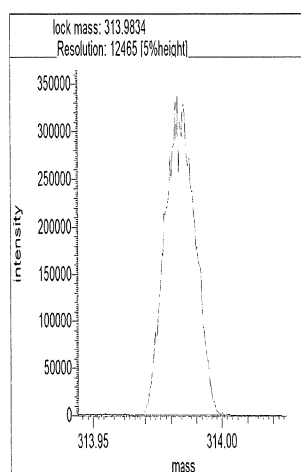


Segment 3

Lock mass 313.9834 [m/z] Resolution: 12465 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 12023 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 12238 [5%height]

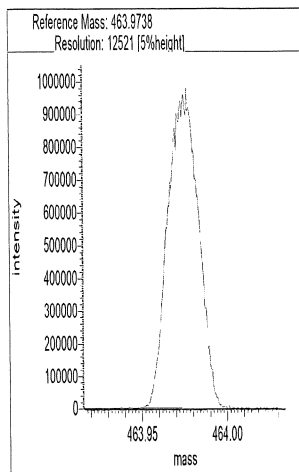
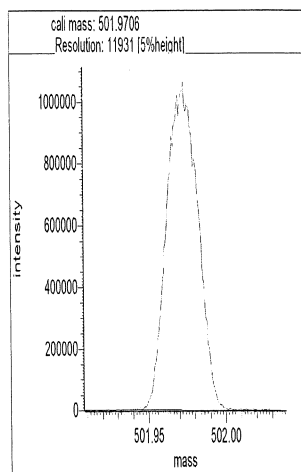
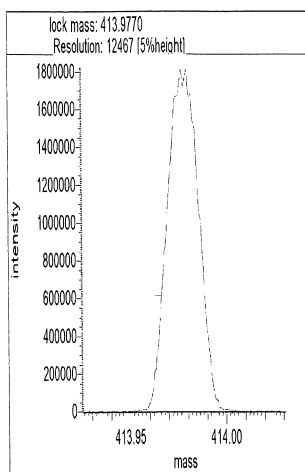


Segment 4

Lock mass 413.9770 [m/z] Resolution: 12467 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 11931 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 12521 [5%height]



Reports

22:34:16: Peak matching procedure started
22:34:16:
22:34:17: Reference mass: 168.98827
22:34:17: Sample mass: 214.0
22:34:18:
22:34:18: Finding reference mass
22:34:19: Finding sample mass
22:34:20:
22:34:25: [1] 213.9903 amu, mean: 213.9903 SD: 0.09 mmu or: 0.44 ppm
22:34:29: [2] 213.9904 amu, mean: 213.9904 SD: 0.22 mmu or: 1.01 ppm
22:34:32: [3] 213.9900 amu, mean: 213.9902 SD: 0.21 mmu or: 1.00 ppm
22:34:35: [4] 213.9905 amu, mean: 213.9903 SD: 0.19 mmu or: 0.87 ppm
22:34:38: [5] 213.9903 amu, mean: 213.9903 SD: 0.17 mmu or: 0.80 ppm
22:34:42: [6] 213.9902 amu, mean: 213.9903 SD: 0.16 mmu or: 0.76 ppm
22:34:45: [7] 213.9902 amu, mean: 213.9903
22:34:46:
22:34:46: Stop requested. Please wait for procedure to finish.
22:34:46:
22:34:48: [8] 213.9907 amu, mean: 213.9903 SD: 0.22 mmu or: 1.03 ppm
22:34:49:
22:34:50: Peakmatching stopped

Signature

msf 6/12/24

Reports

22:35:03: Peak matching procedure started
22:35:04:
22:35:04: Reference mass: 213.98975
22:35:05: Sample mass: 264.0
22:35:05:
22:35:06: Finding reference mass
22:35:07: Finding sample mass
22:35:07:
22:35:13: [1] 263.9862 amu, mean: 263.9862
22:35:16: [2] 263.9868 amu, mean: 263.9865 SD: 0.45 mmu or: 1.71 ppm
22:35:20: [3] 263.9873 amu, mean: 263.9868 SD: 0.56 mmu or: 2.10 ppm
22:35:23: [4] 263.9865 amu, mean: 263.9867 SD: 0.47 mmu or: 1.78 ppm
22:35:23:
22:35:23: Stop requested. Please wait for procedure to finish.
22:35:23:
22:35:26:
22:35:26: Peakmatching stopped

Signature

mmp 6/12/24

Reports

22:35:37: Peak matching procedure started
22:35:38:
22:35:38: Reference mass: 263.98656
22:35:39: Sample mass: 314.0
22:35:39:
22:35:40: Finding reference mass
22:35:41: Finding sample mass
22:35:41:
22:35:47: [1] 313.9833 amu, mean: 313.9833
22:35:50: [2] 313.9834 amu, mean: 313.9833 SD: 0.11 mmu or: 0.35 ppm
22:35:54: [3] 313.9834 amu, mean: 313.9834 SD: 0.09 mmu or: 0.30 ppm
22:35:57: [4] 313.9836 amu, mean: 313.9834 SD: 0.14 mmu or: 0.44 ppm
22:35:57:
22:35:57: Stop requested. Please wait for procedure to finish.
22:35:57:
22:36:00:
22:36:00: Peakmatching stopped

Signature

mar 6/12/24

Reports

22:36:15: Peak matching procedure started
22:36:15:
22:36:16: Reference mass: 313.98336
22:36:16: Sample mass: 376.0
22:36:17:
22:36:17: Finding reference mass
22:36:18: Finding sample mass
22:36:19:
22:36:25: [1] 375.9795 amu, mean: 375.9795
22:36:28: [2] 375.9793 amu, mean: 375.9794 SD: 0.16 mmu or: 0.43 ppm
22:36:31: [3] 375.9805 amu, mean: 375.9798 SD: 0.60 mmu or: 1.60 ppm
22:36:34: [4] 375.9803 amu, mean: 375.9799 SD: 0.56 mmu or: 1.50 ppm
22:36:35:
22:36:35: Stop requested. Please wait for procedure to finish.
22:36:35:
22:36:37:
22:36:38: Peakmatching stopped

Signature

Reports

22:36:15: Peak matching procedure started
22:36:15:
22:36:16: Reference mass: 313.98336
22:36:16: Sample mass: 376.0
22:36:17:
22:36:17: Finding reference mass
22:36:18: Finding sample mass
22:36:19:
22:36:25: [1] 375.9795 amu, mean: 375.9795
22:36:28: [2] 375.9793 amu, mean: 375.9794 SD: 0.16 mmu or: 0.43 ppm
22:36:31: [3] 375.9805 amu, mean: 375.9798 SD: 0.60 mmu or: 1.60 ppm
22:36:34: [4] 375.9803 amu, mean: 375.9799 SD: 0.56 mmu or: 1.50 ppm
22:36:35:
22:36:35: Stop requested. Please wait for procedure to finish.
22:36:35:
22:36:37:
22:36:38: Peakmatching stopped

Signature

mmp 6/12/24

Reports

22:36:53: Peak matching procedure started
22:36:53:
22:36:54: Reference mass: 375.98017
22:36:54: Sample mass: 414.0
22:36:55:
22:36:55: Finding reference mass
22:36:56: Finding sample mass
22:36:57:
22:37:03: [1] 413.9774 amu, mean: 413.9774
22:37:06: [2] 413.9772 amu, mean: 413.9773 SD: 0.12 mmu or: 0.30 ppm
22:37:09: [3] 413.9768 amu, mean: 413.9771 SD: 0.29 mmu or: 0.70 ppm
22:37:12: [4] 413.9770 amu, mean: 413.9771 SD: 0.24 mmu or: 0.59 ppm
22:37:13:
22:37:13: Stop requested. Please wait for procedure to finish.
22:37:13:
22:37:15:
22:37:16: Peakmatching stopped

Signature

mpf 6/12/24

Reports

22:37:27: Peak matching procedure started
22:37:28:
22:37:28: Reference mass: 413.97698
22:37:29: Sample mass: 464.0
22:37:29:
22:37:30: Finding reference mass
22:37:31: Finding sample mass
22:37:32:
22:37:37: [1] 463.9734 amu, mean: 463.9734
22:37:41: [2] 463.9736 amu, mean: 463.9735 SD: 0.13 mmu or: 0.28 ppm
22:37:44: [3] 463.9742 amu, mean: 463.9738 SD: 0.42 mmu or: 0.90 ppm
22:37:47: [4] 463.9742 amu, mean: 463.9739 SD: 0.42 mmu or: 0.90 ppm
22:37:48:
22:37:48: Stop requested. Please wait for procedure to finish.
22:37:48:
22:37:51:
22:37:51: Peakmatching stopped

Signature



Reports

22:38:02: Peak matching procedure started
22:38:02:
22:38:03: Reference mass: 463.97378
22:38:03: Sample mass: 502.0
22:38:04:
22:38:04: Finding reference mass
22:38:05: Finding sample mass
22:38:06:
22:38:12: [1] 501.9704 amu, mean: 501.9704
22:38:15: [2] 501.9712 amu, mean: 501.9708 SD: 0.52 mmu or: 1.04 ppm
22:38:18: [3] 501.9708 amu, mean: 501.9708 SD: 0.37 mmu or: 0.74 ppm
22:38:21: [4] 501.9701 amu, mean: 501.9706 SD: 0.47 mmu or: 0.94 ppm
22:38:22:
22:38:22: Stop requested. Please wait for procedure to finish.
22:38:22:
22:38:25:
22:38:25: Peakmatching stopped

Signature

mmr 6/12/24

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
 Lims ID: WDMCCV
 Client ID:
 Sample Type: WDMCCV
 Inject. Date: 12-Jun-2024 11:22:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Xcalibur_System Instrument ID: D2D
 Sublist: chrom-PCBs_D2D*sub2
 Method: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 12-Jun-2024 12:48:49 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1611

First Level Reviewer: P0IK

Date: 12-Jun-2024 12:48:49

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					152.7	152.7	0.1305	0.1305		
D PCB-1L	11:33	13808374	3.18	1.6108	91.2	91.2	0.1548	0.1548	91.18	
D PCB-3L	13:41	13620941	3.20	1.5891	91.2	91.2	0.1569	0.1569	91.17	
PCB-1	11:33	8445753	3.15	1.2191	50.2	50.2	0.1204	0.1204	100	
PCB-2	13:32	8424131	3.14	1.1805	52.0	52.0	0.1329	0.1329	104	
PCB-3	13:42	8395399	3.13	1.2206	50.5	50.5	0.1381	0.1381	101	
S Total Dichlorobiphenyls					598.3	598.3	0.0308	0.0308		
D PCB-4L	13:57	5974671	1.62	0.6475	98.1	98.1	0.0793	0.0793	98.15	
* PCB-9L	15:54	9400954	1.62		100.0	100.0				
\$ PCB-8L	16:43	4569674	1.62	1.2066	48.5	48.5	0.0548	0.0548	96.98	
D PCB-15L	19:47	9645505	1.60	1.0789	95.1	95.1	0.0476	0.0476	95.10	
PCB-4	13:58	3784562	1.59	1.2818	49.4	49.4	0.0368	0.0368	98.83	
PCB-10	14:07	5160123	1.59	1.3149	50.2	50.2	0.0322	0.0322	100	
PCB-9	15:55	5708718	1.61	1.4224	51.4	51.4	0.0297	0.0297	103	
PCB-7	16:04	5529409	1.59	1.4134	50.1	50.1	0.0299	0.0299	100	
PCB-6	16:19	6093439	1.57	1.5421	50.6	50.6	0.0274	0.0274	101	
PCB-5	16:37	5310174	1.58	1.3395	50.8	50.8	0.0316	0.0316	102	
PCB-8	16:44	6326055	1.60	1.5889	51.0	51.0	0.0266	0.0266	102	
PCB-14	18:21	5333407	1.59	1.4025	48.7	48.7	0.0302	0.0302	97.38	
PCB-11	19:12	4961409	1.59	1.2951	49.1	49.1	0.0327	0.0327	98.10	
PCB-12	19:29	10194317	1.62	1.3358	97.7	97.7	0.0317	0.0317	97.71	
PCB-13 (C12)	19:29	10194317	1.62	1.3358	97.7	97.7	0.0317	0.0317	97.71	
PCB-15	19:48	6149607	1.57	1.2903	49.4	49.4	0.0297	0.0297	98.82	
S Total Trichlorobiphenyls					1210.2	1210.2	0.3288	0.3288		
D PCB-19L	17:02	4149836	1.07	0.6285	99.7	99.7	0.4213	0.4213	99.70	
* PCB-32L	20:16	6622034	1.11		100.0	100.0				
* PCB-31L	22:31	14676237	1.05		100.0	100.0				
\$ PCB-28L	22:48	7184306	1.06	1.0494	46.6	46.6	0.1152	0.1152	93.30	
D PCB-37L	26:47	12882084	1.07	0.8749	100.3	100.3	0.1382	0.1382	100	
PCB-19	17:02	2677037	1.07	1.2809	50.4	50.4	0.0341	0.0341	101	
PCB-18	18:52	7348913	1.06	1.7652	100.3	100.3	0.0248	0.0248	100	
PCB-30 (C18)	18:52	7348913	1.06	1.7652	100.3	100.3	0.0248	0.0248	100	
PCB-17	19:19	2517827	1.05	1.2430	48.8	48.8	0.0352	0.0352	97.62	
PCB-27	19:32	3921752	1.05	1.8327	51.6	51.6	0.0238	0.0238	103	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:39	3450769	1.05	1.6777	49.6	49.6	0.0261	0.0261	99.13	
PCB-16	19:47	2409610	1.05	1.1286	51.4	51.4	0.0387	0.0387	103	
PCB-32	20:17	3877502	1.03	1.8324	51.0	51.0	0.0239	0.0239	102	
PCB-34	21:32	7426246	1.04	1.1277	51.1	51.1	0.4945	0.4945	102	
PCB-23	21:41	7088825	1.05	1.0813	50.9	50.9	0.5157	0.5157	102	
PCB-26	22:00	14733787	1.03	1.1255	101.6	101.6	0.4955	0.4955	102	
PCB-29 (C26)	22:00	14733787	1.03	1.1255	101.6	101.6	0.4955	0.4955	102	
PCB-25	22:13	8492796	1.06	1.2728	51.8	51.8	0.4381	0.4381	104	
PCB-31	22:32	7557431	1.03	1.1532	50.9	50.9	0.4836	0.4836	102	
PCB-20	22:50	15009238	1.05	1.1718	99.4	99.4	0.4759	0.4759	99.43	
PCB-28 (C20)	22:50	15009238	1.05	1.1718	99.4	99.4	0.4759	0.4759	99.43	
PCB-21	23:00	14006288	1.04	1.0746	101.2	101.2	0.5190	0.5190	101	M
PCB-33 (C21)	23:00	14006288	1.04	1.0746	101.2	101.2	0.5190	0.5190	101	M
PCB-22	23:28	7710368	1.03	1.1932	50.2	50.2	0.4673	0.4673	100	
PCB-36	25:01	7182942	0.99	1.1071	50.4	50.4	0.5037	0.5037	101	
PCB-39	25:22	7542676	1.04	1.1581	50.6	50.6	0.4815	0.4815	101	
PCB-38	25:57	6622476	1.06	1.0843	47.4	47.4	0.5143	0.5143	94.82	
PCB-35	26:24	7537071	1.05	1.1297	51.8	51.8	0.4936	0.4936	104	
PCB-37	26:49	7353738	1.06	1.1435	49.9	49.9	0.4877	0.4877	99.84	
S Total Tetrachlorobiphenyls					1997.8	1997.8	0.4416	0.4416		
D PCB-54L	20:05	4067174	0.80	0.5562	110.4	110.4	0.0145	0.0145	110	
* PCB-52L	24:38	7730892	0.82		100.0	100.0				
\$ PCB-79L	32:32	4888986	0.80	1.0018	48.9	48.9	0.3664	0.3664	97.75	
D PCB-81L	33:31	9756485	0.80	1.2470	101.2	101.2	0.3265	0.3265	101	
D PCB-77L	34:05	10213554	0.80	1.3212	100.0	100.0	0.3081	0.3081	100	
PCB-54	20:06	2568292	0.78	1.2733	49.6	49.6	0.0215	0.0215	99.19	
PCB-50	22:16	8169997	0.80	0.8578	95.4	95.4	0.5681	0.5681	95.39	
PCB-53 (C50)	22:16	8169997	0.80	0.8578	95.4	95.4	0.5681	0.5681	95.39	
PCB-45	23:00	7863832	0.79	0.8264	95.3	95.3	0.5897	0.5897	95.30	M
PCB-51 (C45)	23:00	7863832	0.79	0.8264	95.3	95.3	0.5897	0.5897	95.30	M
PCB-46	23:15	3280884	0.79	0.7101	46.3	46.3	0.6863	0.6863	92.55	
PCB-52	24:40	4440776	0.79	0.9194	48.4	48.4	0.5300	0.5300	96.74	
PCB-43	24:48	10057241	0.80	1.0333	97.5	97.5	0.4716	0.4716	97.47	M
PCB-73 (C43)	24:48	10057241	0.80	1.0333	97.5	97.5	0.4716	0.4716	97.47	M
PCB-49	25:05	10067655	0.78	1.0685	94.4	94.4	0.4561	0.4561	94.36	
PCB-69 (C49)	25:05	10067655	0.78	1.0685	94.4	94.4	0.4561	0.4561	94.36	
PCB-48	25:25	4042790	0.79	0.8399	48.2	48.2	0.5802	0.5802	96.41	
PCB-44	25:40	13717875	0.79	0.9731	141.2	141.2	0.5008	0.5008	94.12	
PCB-47 (C44)	25:40	13717875	0.79	0.9731	141.2	141.2	0.5008	0.5008	94.12	
PCB-65 (C44)	25:40	13717875	0.79	0.9731	141.2	141.2	0.5008	0.5008	94.12	
PCB-59	25:58	15986608	0.79	1.1853	135.1	135.1	0.4111	0.4111	90.05	
PCB-62 (C59)	25:58	15986608	0.79	1.1853	135.1	135.1	0.4111	0.4111	90.05	
PCB-75 (C59)	25:58	15986608	0.79	1.1853	135.1	135.1	0.4111	0.4111	90.05	
PCB-42	26:10	3880297	0.80	0.8097	48.0	48.0	0.6019	0.6019	95.99	
PCB-40	26:40	12633667	0.78	0.8863	142.8	142.8	0.5498	0.5498	95.17	M
PCB-41 (C40)	26:40	12633667	0.78	0.8863	142.8	142.8	0.5498	0.5498	95.17	M
PCB-71 (C40)	26:40	12633667	0.78	0.8863	142.8	142.8	0.5498	0.5498	95.17	M
PCB-64	26:53	5547795	0.80	1.1776	47.2	47.2	0.4138	0.4138	94.37	
PCB-72	27:43	5593420	0.79	1.0943	51.2	51.2	0.4453	0.4453	102	
PCB-68	27:59	6312635	0.79	1.2533	50.4	50.4	0.3888	0.3888	101	
PCB-57	28:25	5294462	0.79	1.0818	49.0	49.0	0.4505	0.4505	98.03	
PCB-58	28:39	6489623	0.79	1.3253	49.0	49.0	0.3677	0.3677	98.08	
PCB-67	28:49	6458508	0.79	1.4230	45.5	45.5	0.3424	0.3424	90.91	
PCB-63	29:05	5354381	0.78	1.1240	47.7	47.7	0.4336	0.4336	95.42	
PCB-61	29:25	23459220	0.78	1.2612	186.3	186.3	0.3864	0.3864	93.14	
PCB-70 (C61)	29:25	23459220	0.78	1.2612	186.3	186.3	0.3864	0.3864	93.14	
PCB-74 (C61)	29:25	23459220	0.78	1.2612	186.3	186.3	0.3864	0.3864	93.14	
PCB-76 (C61)	29:25	23459220	0.78	1.2612	186.3	186.3	0.3864	0.3864	93.14	
PCB-66	29:45	6197649	0.79	1.2583	49.3	49.3	0.3873	0.3873	98.66	
PCB-55	29:55	6412826	0.79	1.3236	48.5	48.5	0.3682	0.3682	97.04	
PCB-56	30:24	5903332	0.79	1.2334	47.9	47.9	0.3951	0.3951	95.87	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:38	5220421	0.78	1.1230	46.6	46.6	0.4339	0.4339	93.11	
PCB-80	31:01	6465287	0.81	1.3243	48.9	48.9	0.3680	0.3680	97.79	
PCB-79	32:33	6574870	0.80	1.4368	45.8	45.8	0.3392	0.3392	91.66	
PCB-78	33:06	5427133	0.80	1.1618	46.8	46.8	0.4194	0.4194	93.56	
PCB-81	33:33	4977812	0.79	1.0802	47.2	47.2	0.4496	0.4496	94.47	
PCB-77	34:06	5363450	0.79	1.0836	48.5	48.5	0.4513	0.4513	96.92	
S Total Pentachlorobiphenyls					2272.7	2272.7	0.2454	0.2454		
D PCB-104L	25:34	7136808	1.63	1.2161	101.7	101.7	0.0189	0.0189	102	
\$ PCB-95L	28:32	2488130	1.59	0.7218	48.3	48.3	0.0243	0.0243	96.60	
* PCB-101L	31:27	5770481	1.62		100.0	100.0				
\$ PCB-111L	34:08	3683837	1.59	1.3699	46.6	46.6	0.0168	0.0168	93.20	
D PCB-123L	36:05	9225716	1.63	0.9731	98.0	98.0	1.023	1.023	97.98	
D PCB-118L	36:25	9926286	1.62	1.0102	101.6	101.6	0.9853	0.9853	102	
D PCB-114L	36:56	9636954	1.61	0.9949	100.1	100.1	1.000	1.000	100	
D PCB-105L	37:35	9274916	1.57	0.9514	100.8	100.8	1.046	1.046	101	
* PCB-127L	39:03	9675682	1.57		100.0	100.0				
D PCB-126L	40:40	9501449	1.58	0.9439	104.0	104.0	1.055	1.055	104	
PCB-104	25:36	3650152	1.62	1.0087	50.7	50.7	0.0249	0.0249	101	
PCB-96	25:58	3714616	1.56	1.0940	47.6	47.6	0.0229	0.0229	95.15	
PCB-103	27:53	3325374	1.57	0.8741	53.3	53.3	0.0287	0.0287	107	
PCB-94	28:07	2568106	1.60	0.7640	47.1	47.1	0.0329	0.0329	94.20	
PCB-95	28:33	2866452	1.59	0.8033	50.0	50.0	0.0312	0.0312	100	
PCB-93	28:46	5773148	1.61	0.8429	96.0	96.0	0.0298	0.0298	95.97	
PCB-100 (C93)	28:46	5773148	1.61	0.8429	96.0	96.0	0.0298	0.0298	95.97	
PCB-98	28:55	5818051	1.58	0.8262	98.7	98.7	0.0304	0.0304	98.68	M
PCB-102 (C98)	28:55	5818051	1.58	0.8262	98.7	98.7	0.0304	0.0304	98.68	M
PCB-88	29:25	5627323	1.62	0.8013	98.4	98.4	0.0313	0.0313	98.40	
PCB-91 (C88)	29:25	5627323	1.62	0.8013	98.4	98.4	0.0313	0.0313	98.40	
PCB-84	29:38	2549286	1.65	0.7299	48.9	48.9	0.0344	0.0344	97.87	
PCB-89	30:07	2636588	1.58	0.7798	47.4	47.4	0.0322	0.0322	94.75	
PCB-121	30:31	4530925	1.61	1.2964	49.0	49.0	0.0194	0.0194	97.94	
PCB-92	30:54	3052134	1.60	0.8546	50.0	50.0	0.0294	0.0294	100	
PCB-90	31:28	9986377	1.60	0.9550	146.5	146.5	0.0263	0.0263	97.68	
PCB-101 (C90)	31:28	9986377	1.60	0.9550	146.5	146.5	0.0263	0.0263	97.68	
PCB-113 (C90)	31:28	9986377	1.60	0.9550	146.5	146.5	0.0263	0.0263	97.68	
PCB-83	32:03	6001970	1.60	0.8385	100.3	100.3	0.0299	0.0299	100	
PCB-99 (C83)	32:03	6001970	1.60	0.8385	100.3	100.3	0.0299	0.0299	100	
PCB-112	32:10	4900348	1.60	1.4111	48.7	48.7	0.0178	0.0178	97.32	
PCB-86	32:33	21969553	1.60	1.0473	293.9	293.9	0.0240	0.0240	97.98	M
PCB-87 (C86)	32:33	21969553	1.60	1.0473	293.9	293.9	0.0240	0.0240	97.98	M
PCB-97 (C86)	32:33	21969553	1.60	1.0473	293.9	293.9	0.0240	0.0240	97.98	M
PCB-109 (C86)	32:33	21969553	1.60	1.0473	293.9	293.9	0.0240	0.0240	97.98	M
PCB-119 (C86)	32:33	21969553	1.60	1.0473	293.9	293.9	0.0240	0.0240	97.98	M
PCB-125 (C86)	32:33	21969553	1.60	1.0473	293.9	293.9	0.0240	0.0240	97.98	M
PCB-85	33:16	10926068	1.59	1.0408	147.1	147.1	0.0241	0.0241	98.06	
PCB-116 (C85)	33:16	10926068	1.59	1.0408	147.1	147.1	0.0241	0.0241	98.06	
PCB-117 (C85)	33:16	10926068	1.59	1.0408	147.1	147.1	0.0241	0.0241	98.06	
PCB-110	33:28	8535656	1.60	1.1919	100.3	100.3	0.0211	0.0211	100	
PCB-115 (C110)	33:28	8535656	1.60	1.1919	100.3	100.3	0.0211	0.0211	100	
PCB-82	33:46	2920135	1.60	0.8303	49.3	49.3	0.0302	0.0302	98.56	
PCB-111	34:09	4211681	1.58	1.2125	48.7	48.7	0.0207	0.0207	97.34	
PCB-120	34:37	5022590	1.57	1.4762	47.7	47.7	0.0170	0.0170	95.34	
PCB-108	35:45	10363002	1.60	1.1405	95.5	95.5	0.6873	0.6873	95.51	
PCB-124 (C108)	35:45	10363002	1.60	1.1405	95.5	95.5	0.6873	0.6873	95.51	
PCB-107	36:00	5756362	1.43	1.2121	49.9	49.9	0.6467	0.6467	99.84	
PCB-123	36:07	4984928	1.71	1.0722	50.4	50.4	0.7319	0.7319	101	
PCB-106	36:13	5279671	1.57	1.0839	51.2	51.2	0.7232	0.7232	102	
PCB-118	36:26	5889652	1.56	1.2055	49.2	49.2	0.6172	0.6172	98.43	
PCB-122	36:47	4681963	1.57	0.9567	51.4	51.4	0.8193	0.8193	103	
PCB-114	36:57	5375891	1.55	1.0842	51.5	51.5	0.7155	0.7155	103	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:37	5670033	1.65	1.1879	51.5	51.5	0.6756	0.6756	103	
PCB-127	39:05	5489852	1.56	1.1394	50.6	50.6	0.6880	0.6880	101	
PCB-126	40:41	5411642	1.58	1.0976	51.9	51.9	0.7435	0.7435	104	
S Total Hexachlorobiphenyls					2019.4	2019.4	0.2148	0.2148		
D PCB-155L	31:14	6583596	1.29	1.0851	105.1	105.1	0.007550	0.007550	105	
\$ PCB-153L	38:17	3368427	1.29	0.9169	42.4	42.4	0.6729	0.6729	84.86	
* PCB-138L	39:32	6809857	1.27		100.0	100.0				
D PCB-167L	42:32	8591394	1.29	1.2572	100.3	100.3	0.5142	0.5142	100	
D PCB-156L	43:40	17027895	1.26	1.2106	206.5	206.5	0.5340	0.5340	103	
D PCB-157L (C156L)	43:40	17027895	1.26	1.2106	206.5	206.5	0.5340	0.5340	103	
D PCB-169L	46:54	9010922	1.25	1.2439	106.4	106.4	0.5197	0.5197	106	
PCB-155	31:15	3062442	1.26	0.9444	49.3	49.3	0.0116	0.0116	98.51	
PCB-152	31:27	3275188	1.27	0.9895	50.3	50.3	0.0111	0.0111	101	
PCB-150	31:37	3393507	1.27	1.0132	50.9	50.9	0.0108	0.0108	102	
PCB-136	31:59	3366556	1.28	1.0116	50.5	50.5	0.0109	0.0109	101	
PCB-145	32:16	3184306	1.24	0.9685	49.9	49.9	0.0113	0.0113	99.88	
PCB-148	33:47	2477968	1.24	0.7603	49.5	49.5	0.0145	0.0145	99.01	
PCB-135	34:22	4785569	1.25	0.7256	100.2	100.2	0.0151	0.0151	100	M
PCB-151 (C135)	34:22	4785569	1.25	0.7256	100.2	100.2	0.0151	0.0151	100	M
PCB-154	34:38	2725922	1.28	0.8129	50.9	50.9	0.0135	0.0135	102	
PCB-144	34:56	2555505	1.25	0.7852	49.4	49.4	0.0140	0.0140	98.86	
PCB-147	35:18	7388074	1.26	0.8950	95.4	95.4	0.3107	0.3107	95.35	
PCB-149 (C147)	35:18	7388074	1.26	0.8950	95.4	95.4	0.3107	0.3107	95.35	
PCB-134	35:36	6483503	1.27	0.7967	94.0	94.0	0.3491	0.3491	94.00	
PCB-143 (C134)	35:36	6483503	1.27	0.7967	94.0	94.0	0.3491	0.3491	94.00	
PCB-139	35:53	6928510	1.26	0.8769	91.3	91.3	0.3171	0.3171	91.27	
PCB-140 (C139)	35:53	6928510	1.26	0.8769	91.3	91.3	0.3171	0.3171	91.27	
PCB-131	36:06	3043820	1.26	0.7503	46.9	46.9	0.3706	0.3706	93.72	
PCB-142	36:14	3162952	1.25	0.7507	48.7	48.7	0.3704	0.3704	97.33	
PCB-132	36:34	2962225	1.29	0.7489	45.7	45.7	0.3713	0.3713	91.37	
PCB-133	37:04	3230630	1.26	0.8096	46.1	46.1	0.3435	0.3435	92.19	
PCB-165	37:27	4129888	1.25	1.0247	46.6	46.6	0.2714	0.2714	93.10	
PCB-146	37:42	4053848	1.25	0.9637	48.6	48.6	0.2886	0.2886	97.18	
PCB-161	37:50	4365704	1.25	1.1288	44.7	44.7	0.2464	0.2464	89.35	
PCB-153	38:20	8954433	1.26	1.0938	94.6	94.6	0.2542	0.2542	94.56	
PCB-168 (C153)	38:20	8954433	1.26	1.0938	94.6	94.6	0.2542	0.2542	94.56	
PCB-141	38:30	3456725	1.25	0.8755	45.6	45.6	0.3176	0.3176	91.21	
PCB-130	38:55	2845468	1.26	0.7051	46.6	46.6	0.3944	0.3944	93.22	
PCB-137	39:08	3161586	1.29	0.7767	47.0	47.0	0.3581	0.3581	94.04	
PCB-164	39:15	4343697	1.29	1.0382	48.3	48.3	0.2678	0.2678	96.65	
PCB-129	39:34	15561171	1.26	0.9464	189.9	189.9	0.2938	0.2938	94.96	M
PCB-138 (C129)	39:34	15561171	1.26	0.9464	189.9	189.9	0.2938	0.2938	94.96	M
PCB-160 (C129)	39:34	15561171	1.26	0.9464	189.9	189.9	0.2938	0.2938	94.96	M
PCB-163 (C129)	39:34	15561171	1.26	0.9464	189.9	189.9	0.2938	0.2938	94.96	M
PCB-158	39:56	5291293	1.25	1.3110	46.6	46.6	0.2121	0.2121	93.23	
PCB-128	40:47	8430212	1.27	0.9829	99.1	99.1	0.2829	0.2829	99.06	
PCB-166 (C128)	40:47	8430212	1.27	0.9829	99.1	99.1	0.2829	0.2829	99.06	
PCB-159	41:48	5692701	1.26	1.3856	47.5	47.5	0.2007	0.2007	94.91	
PCB-162	42:05	5130977	1.25	1.2571	47.1	47.1	0.2212	0.2212	94.29	
PCB-167	42:33	4711731	1.25	1.1159	49.1	49.1	0.2115	0.2115	98.29	
PCB-156	43:42	9403361	1.26	1.1104	99.5	99.5	0.3054	0.3054	99.46	
PCB-157 (C156)	43:42	9403361	1.26	1.1104	99.5	99.5	0.3054	0.3054	99.46	
PCB-169	46:55	5214203	1.24	1.1628	49.8	49.8	0.2024	0.2024	99.52	
S Total Heptachlorobiphenyls					1185.7	1185.7	0.0157	0.0157		
D PCB-188L	36:56	7182903	1.07	1.3133	94.3	94.3	0.0201	0.0201	94.32	
\$ PCB-178L	40:00	2607401	1.12	1.0313	43.6	43.6	0.0256	0.0256	87.20	
* PCB-180L	45:04	5798765	1.07		100.0	100.0				
D PCB-170L	46:19	5157775	1.08	0.8362	106.4	106.4	0.0316	0.0316	106	
D PCB-189L	49:25	11168224	1.07	1.4414	95.1	95.1	0.2211	0.2211	95.06	
PCB-188	36:58	3989982	1.04	1.1350	48.9	48.9	0.007041	0.007041	97.89	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:19	3986361	1.05	1.4276	45.3	45.3	0.006632	0.006632	90.51	
PCB-184	37:49	3963511	1.05	1.3672	47.0	47.0	0.006925	0.006925	93.97	
PCB-176	38:11	3508357	1.03	1.2331	46.1	46.1	0.007678	0.007678	92.22	
PCB-186	38:38	4380387	1.05	1.4737	48.2	48.2	0.006425	0.006425	96.34	
PCB-178	40:01	2672189	1.04	0.8946	48.4	48.4	0.0106	0.0106	96.82	
PCB-175	40:39	2843802	1.09	0.9524	48.4	48.4	0.0099	0.0099	96.78	
PCB-187	40:55	3374951	1.03	1.1018	49.6	49.6	0.008593	0.008593	99.28	
PCB-182	41:07	2928091	1.08	0.9247	51.3	51.3	0.0102	0.0102	103	
PCB-183	41:32	5763439	1.06	0.9825	95.1	95.1	0.009637	0.009637	95.07	M
PCB-185 (C183)	41:32	5763439	1.06	0.9825	95.1	95.1	0.009637	0.009637	95.07	M
PCB-174	41:46	3046918	1.04	0.9642	51.2	51.2	0.009820	0.009820	102	
PCB-177	42:12	3010412	1.01	0.9773	49.9	49.9	0.009688	0.009688	99.85	
PCB-181	42:35	2849441	1.03	0.9505	48.6	48.6	0.0100	0.0100	97.16	
PCB-171	42:48	5440168	1.05	0.9336	94.4	94.4	0.0101	0.0101	94.43	
PCB-173 (C171)	42:48	5440168	1.05	0.9336	94.4	94.4	0.0101	0.0101	94.43	
PCB-172	44:26	2744392	1.06	0.8519	52.2	52.2	0.0111	0.0111	104	
PCB-192	44:43	4448439	1.07	1.3459	53.6	53.6	0.007035	0.007035	107	
PCB-180	45:03	7374506	1.04	1.1676	102.4	102.4	0.008109	0.008109	102	
PCB-193 (C180)	45:03	7374506	1.04	1.1676	102.4	102.4	0.008109	0.008109	102	
PCB-191	45:27	4182185	1.09	1.2891	52.6	52.6	0.007345	0.007345	105	
PCB-170	46:20	2972873	1.05	1.1865	48.6	48.6	0.009789	0.009789	97.16	
PCB-190	46:51	4324297	1.06	1.3322	52.6	52.6	0.007107	0.007107	105	
PCB-189	49:27	5527589	1.05	0.9633	51.4	51.4	0.1560	0.1560	103	
S Total Octachlorobiphenyls					621.0	621.0	0.0861	0.0861		
D PCB-202L	42:18	5733457	0.89	0.9818	100.7	100.7	0.004362	0.004362	101	
* PCB-194L	51:32	8151056	0.92		100.0	100.0				
D PCB-205L	52:00	9422133	0.91	1.1786	98.1	98.1	0.0755	0.0755	98.08	
PCB-202	42:19	3000758	0.93	1.0359	50.5	50.5	0.0196	0.0196	101	
PCB-201	43:14	2880312	0.92	0.9754	51.5	51.5	0.0208	0.0208	103	
PCB-204	43:55	3106633	0.92	1.0485	51.7	51.7	0.0194	0.0194	103	
PCB-197	44:08	3206909	0.83	1.1458	48.8	48.8	0.0177	0.0177	97.63	
PCB-200	44:15	3025530	0.99	1.0072	52.4	52.4	0.0202	0.0202	105	
PCB-198	47:02	5260840	0.91	0.8698	105.5	105.5	0.0234	0.0234	105	
PCB-199 (C198)	47:02	5260840	0.91	0.8698	105.5	105.5	0.0234	0.0234	105	
PCB-196	47:42	2472284	0.92	0.7806	55.2	55.2	0.0260	0.0260	110	
PCB-203	47:54	2906240	0.89	0.9292	54.6	54.6	0.0219	0.0219	109	
PCB-195	49:12	3972803	0.90	0.8263	51.0	51.0	0.2984	0.2984	102	
PCB-194	51:34	4626069	0.89	0.9735	50.4	50.4	0.2533	0.2533	101	
PCB-205	52:01	5054437	0.90	1.0878	49.3	49.3	0.2267	0.2267	98.63	
S Total Nonachlorobiphenyls					141.7	141.7	0.4695	0.4695		
D PCB-208L	48:58	7950260	0.79	0.9576	101.9	101.9	0.2590	0.2590	102	
D PCB-206L	53:45	6017889	0.81	0.6947	106.3	106.3	0.3571	0.3571	106	
PCB-208	48:59	4361233	0.81	1.1374	48.2	48.2	0.4511	0.4511	96.46	
PCB-207	49:55	4592466	0.80	1.3756	47.8	47.8	0.4311	0.4311	95.60	
PCB-206	53:47	3667389	0.80	1.3346	45.7	45.7	0.5264	0.5264	91.33	
D PCB-209L	55:22	6108650	0.72	0.6669	112.4	112.4	0.0526	0.0526	112	
DCB Decachlorobiphenyl	55:23	3408289	0.71	1.1004	50.7	50.7	0.0342	0.0342	101	
S Polychlorinated biphenyls, Total					10098	10098	0.2074	0.2074		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61CV1668CS3_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Lims ID: WDMCCV
Client ID:
Sample Type: WDMCCV
Inject. Date: 12-Jun-2024 11:22:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub2
Method: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 12:48:49 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1611

First Level Reviewer: P0IK

Date: 12-Jun-2024 12:48:49

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:33	11:33	0	0.727	10504303	4032063	1979	4947	2037		
202.0766	11:33	11:33	0	0.727	3304071	1256631	783	1957	1605	3.18(2.66-3.60)	
PCB-3L											
200.0795	13:41	13:41	0	0.861	10381247	3510089	1979	4947	1774		
202.0766	13:41	13:41	0	0.861	3239694	1096648	783	1957	1401	3.20(2.66-3.60)	
PCB-1											
188.0393	11:33	11:33	0	1.000	6412078	2480089	2209	5522	1123		
190.0363	11:33	11:33	0	1.000	2033675	796577	897	2242	888	3.15(2.66-3.60)	
PCB-2											
188.0393	13:32	13:32	0	0.988	6391410	2198942	2209	5522	995		
190.0363	13:32	13:32	0	0.988	2032721	699022	897	2242	779	3.14(2.66-3.60)	
PCB-3											
188.0393	13:42	13:42	0	1.001	6362049	2120906	2209	5522	960		
190.0363	13:42	13:42	0	1.001	2033350	682376	897	2242	761	3.13(2.66-3.60)	
PCB-4L											
234.0406	13:57	13:57	0	0.878	3696290	1189847	386	965	3083		
236.0376	13:57	13:57	0	0.878	2278381	740845	183	457	4048	1.62(1.33-1.79)	
PCB-9L											
234.0406	15:54	15:54	0		5811000	1710873	386	965	4432		
236.0376	15:54	15:54	0		3589954	1058015	183	457	5782	1.62(1.33-1.79)	
PCB-8L											
234.0406	16:43	16:43	0	1.199	2824704	798316	386	965	2068		
236.0376	16:43	16:43	0	1.199	1744970	496758	183	457	2715	1.62(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:47	19:47	0	1.245	5939534	1462841	386	965	3790		
236.0376	19:47	19:47	0	1.245	3705971	907990	183	457	4962	1.60(1.33-1.79)	
PCB-4											
222.0003	13:58	13:58	0	1.001	2321164	772144	93	232	8303		
223.9974	13:58	13:58	0	1.001	1463398	488178	271	677	1801	1.59(1.33-1.79)	
PCB-10											
222.0003	14:07	14:07	0	1.012	3166071	1000553	93	232	10759		
223.9974	14:07	14:07	0	1.012	1994052	646201	271	677	2385	1.59(1.33-1.79)	
PCB-9											
222.0003	15:55	15:55	0	1.141	3524638	1054072	93	232	11334		
223.9974	15:55	15:55	0	1.141	2184080	657892	271	677	2428	1.61(1.33-1.79)	
PCB-7											
222.0003	16:04	16:04	0	1.152	3396541	951498	93	232	10231		
223.9974	16:04	16:04	0	1.152	2132868	597063	271	677	2203	1.59(1.33-1.79)	
PCB-6											
222.0003	16:19	16:19	0	1.170	3724913	1094330	93	232	11767		
223.9974	16:19	16:19	0	1.170	2368526	684730	271	677	2527	1.57(1.33-1.79)	
PCB-5											
222.0003	16:37	16:37	0	1.191	3251116	936953	93	232	10075		
223.9974	16:37	16:37	0	1.191	2059058	596245	271	677	2200	1.58(1.33-1.79)	
PCB-8											
222.0003	16:44	16:44	0	1.200	3889318	1068279	93	232	11487		
223.9974	16:44	16:44	0	1.200	2436737	664185	271	677	2451	1.60(1.33-1.79)	
PCB-14											
222.0003	18:21	18:21	0	0.928	3273521	856035	93	232	9205		
223.9974	18:21	18:21	0	0.928	2059886	537518	271	677	1983	1.59(1.33-1.79)	
PCB-11											
222.0003	19:12	19:12	0	0.970	3049056	766880	93	232	8246		
223.9974	19:12	19:12	0	0.970	1912353	484941	271	677	1789	1.59(1.33-1.79)	
PCB-12											
222.0003	19:29	19:29	0	0.985	6296617	1057500	93	232	11371		
223.9974	19:29	19:29	0	0.985	3897700	664567	271	677	2452	1.62(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:29	19:29	0	0.985	6296617	1057500	93	232	11371		
223.9974	19:29	19:29	0	0.985	3897700	664567	271	677	2452	1.62(1.33-1.79)	
PCB-15											
222.0003	19:48	19:48	0	1.001	3761169	893021	93	232	9602		
223.9974	19:48	19:48	0	1.001	2388438	573051	271	677	2115	1.57(1.33-1.79)	
PCB-19L											
268.0016	17:02	17:02	0	0.840	2141500	606089	814	2035	745		
269.9986	17:02	17:02	0	0.840	2008336	572238	889	2222	644	1.07(0.88-1.20)	
PCB-32L											
268.0016	20:16	20:16	0		3479765	840458	814	2035	1033		
269.9986	20:16	20:16	0		3142269	767221	889	2222	863	1.11(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:31	22:31	0		7512186	1745233	1006	2515	1735		
269.9986	22:31	22:31	0		7164051	1671990	647	1617	2584	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:48	22:48	0	1.012	3692502	839108	1006	2515	834		
269.9986	22:48	22:48	0	1.012	3491804	787028	647	1617	1216	1.06(0.88-1.20)	
PCB-37L											
268.0016	26:47	26:47	0	1.190	6658685	1360640	1006	2515	1353		
269.9986	26:47	26:47	0	1.190	6223399	1283459	647	1617	1984	1.07(0.88-1.20)	
PCB-19											
255.9613	17:02	17:02	0	1.001	1386238	384688	142	355	2709		
257.9584	17:02	17:02	0	1.001	1290799	361070	64	160	5642	1.07(0.88-1.20)	
PCB-18											
255.9613	18:52	18:52	0	1.108	3776001	689868	142	355	4858		
257.9584	18:52	18:52	0	1.108	3572912	648455	64	160	10132	1.06(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:52	18:52	0	1.108	3776001	689868	142	355	4858		
257.9584	18:52	18:52	0	1.108	3572912	648455	64	160	10132	1.06(0.88-1.20)	
PCB-17											
255.9613	19:19	19:19	0	1.134	1289409	324736	142	355	2287		
257.9584	19:19	19:19	0	1.134	1228418	309168	64	160	4831	1.05(0.88-1.20)	
PCB-27											
255.9613	19:32	19:32	0	1.147	2011725	522661	142	355	3681		
257.9584	19:32	19:32	0	1.147	1910027	487433	64	160	7616	1.05(0.88-1.20)	
PCB-24											
255.9613	19:39	19:39	0	1.155	1765315	442798	142	355	3118		
257.9584	19:39	19:39	-1	1.154	1685454	428906	64	160	6702	1.05(0.88-1.20)	
PCB-16											
255.9613	19:47	19:47	0	1.162	1231757	301737	142	355	2125		
257.9584	19:47	19:47	0	1.162	1177853	290310	64	160	4536	1.05(0.88-1.20)	
PCB-32											
255.9613	20:17	20:17	0	1.191	1966413	477897	142	355	3365		
257.9584	20:17	20:17	0	1.191	1911089	476295	64	160	7442	1.03(0.88-1.20)	
PCB-34											
255.9613	21:32	21:32	0	1.265	3788928	923022	2401	6002	384		
257.9584	21:32	21:32	0	1.265	3637318	875757	3497	8742	250	1.04(0.88-1.20)	
PCB-23											
255.9613	21:41	21:41	0	1.274	3636960	840575	2401	6002	350		
257.9584	21:41	21:41	0	1.274	3451865	798911	3497	8742	228	1.05(0.88-1.20)	
PCB-26											
255.9613	22:00	22:00	0	1.292	7483952	1595060	2401	6002	664		
257.9584	22:00	22:00	0	1.292	7249835	1536671	3497	8742	439	1.03(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:00	22:00	0	1.292	7483952	1595060	2401	6002	664		
257.9584	22:00	22:00	0	1.292	7249835	1536671	3497	8742	439	1.03(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:13	22:13	0	0.829	4363989	962396	2401	6002	401		
257.9584	22:13	22:13	0	0.829	4128807	912983	3497	8742	261	1.06(0.88-1.20)	
PCB-31											
255.9613	22:32	22:32	0	0.841	3836947	874090	2401	6002	364		
257.9584	22:32	22:32	0	0.841	3720484	852605	3497	8742	244	1.03(0.88-1.20)	
PCB-20											
255.9613	22:50	22:50	0	0.852	7678911	1425120	2401	6002	594		
257.9584	22:50	22:50	0	0.852	7330327	1370298	3497	8742	392	1.05(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:50	22:50	0	0.852	7678911	1425120	2401	6002	594		
257.9584	22:50	22:50	0	0.852	7330327	1370298	3497	8742	392	1.05(0.88-1.20)	
PCB-21											
255.9613	23:00	23:00	0	0.859	7129870	857477	2401	6002	357		M
257.9584	23:00	23:00	0	0.859	6876418	839863	3497	8742	240	1.04(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:00	23:00	0	0.859	7129870	857477	2401	6002	357		M
257.9584	23:00	23:00	0	0.859	6876418	839863	3497	8742	240	1.04(0.88-1.20)	M
PCB-22											
255.9613	23:28	23:28	0	0.876	3904691	874291	2401	6002	364		
257.9584	23:28	23:28	0	0.876	3805677	847717	3497	8742	242	1.03(0.88-1.20)	
PCB-36											
255.9613	25:01	25:01	0	0.934	3578728	749841	2401	6002	312		
257.9584	25:01	25:01	0	0.934	3604214	729873	3497	8742	209	0.99(0.88-1.20)	
PCB-39											
255.9613	25:22	25:22	0	0.947	3837422	820357	2401	6002	342		
257.9584	25:22	25:22	0	0.947	3705254	792264	3497	8742	227	1.04(0.88-1.20)	
PCB-38											
255.9613	25:57	25:57	0	0.968	3399996	718785	2401	6002	299		
257.9584	25:57	25:57	0	0.968	3222480	693840	3497	8742	198	1.06(0.88-1.20)	
PCB-35											
255.9613	26:24	26:24	0	0.986	3852934	787591	2401	6002	328		
257.9584	26:24	26:24	0	0.986	3684137	763470	3497	8742	218	1.05(0.88-1.20)	
PCB-37											
255.9613	26:49	26:49	0	1.001	3786687	760200	2401	6002	317		
257.9584	26:49	26:49	0	1.001	3567051	725861	3497	8742	208	1.06(0.88-1.20)	
PCB-54L											
301.9626	20:05	20:05	0	0.815	1803449	460718	48	120	9598		
303.9597	20:05	20:05	0	0.815	2263725	563143	4	10	140786	0.80(0.65-0.89)	
PCB-52L											
301.9626	24:38	24:38	0		3475905	785660	1056	2640	744		
303.9597	24:38	24:38	0		4254987	953463	1776	4440	537	0.82(0.65-0.89)	
PCB-79L											
301.9626	32:32	32:32	0	0.971	2172570	437296	1056	2640	414		
303.9597	32:32	32:32	0	0.971	2716416	551213	1776	4440	310	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:31	33:31	0	1.360	4350888	871699	1056	2640	825		
303.9597	33:31	33:31	0	1.360	5405597	1063851	1776	4440	599	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:05	34:05	0	1.383	4531917	843916	1056	2640	799		
303.9597	34:05	34:05	0	1.383	5681637	1078427	1776	4440	607	0.80(0.65-0.89)	
PCB-54											
289.9224	20:06	20:06	0	1.000	1125876	281527	14	35	20109		
291.9194	20:06	20:06	0	1.000	1442416	352065	98	245	3593	0.78(0.65-0.89)	
PCB-50											
289.9224	22:16	22:16	0	1.109	3631824	784920	1462	3655	537		
291.9194	22:16	22:16	0	1.109	4538173	979729	2298	5745	426	0.80(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:16	22:16	0	1.109	3631824	784920	1462	3655	537		
291.9194	22:16	22:16	0	1.109	4538173	979729	2298	5745	426	0.80(0.65-0.89)	
PCB-45											
289.9224	23:00	23:00	0	1.145	3459572	453028	1462	3655	310		M
291.9194	23:00	23:00	0	1.145	4404260	559464	2298	5745	243	0.79(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:00	23:00	0	1.145	3459572	453028	1462	3655	310		M
291.9194	23:00	23:00	0	1.145	4404260	559464	2298	5745	243	0.79(0.65-0.89)	M
PCB-46											
289.9224	23:15	23:15	0	1.157	1453052	337839	1462	3655	231		
291.9194	23:15	23:15	0	1.157	1827832	425624	2298	5745	185	0.79(0.65-0.89)	
PCB-52											
289.9224	24:40	24:40	0	1.228	1961306	438031	1462	3655	300		
291.9194	24:39	24:40	-1	1.227	2479470	561213	2298	5745	244	0.79(0.65-0.89)	
PCB-43											
289.9224	24:48	24:48	0	1.235	4463782	601967	1462	3655	412		M
291.9194	24:48	24:48	0	1.235	5593459	755641	2298	5745	329	0.80(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:48	24:48	0	1.235	4463782	601967	1462	3655	412		M
291.9194	24:48	24:48	0	1.235	5593459	755641	2298	5745	329	0.80(0.65-0.89)	M
PCB-49											
289.9224	25:05	25:05	0	1.249	4424734	642448	1462	3655	439		
291.9194	25:06	25:05	1	1.249	5642921	816228	2298	5745	355	0.78(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:05	25:05	0	1.249	4424734	642448	1462	3655	439		
291.9194	25:06	25:05	1	1.249	5642921	816228	2298	5745	355	0.78(0.65-0.89)	
PCB-48											
289.9224	25:25	25:25	0	1.265	1781914	402215	1462	3655	275		
291.9194	25:25	25:25	0	1.265	2260876	506059	2298	5745	220	0.79(0.65-0.89)	
PCB-44											
289.9224	25:40	25:40	0	1.277	6033692	1118002	1462	3655	765		
291.9194	25:40	25:40	0	1.277	7684183	1400887	2298	5745	610	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:40	25:40	0	1.277	6033692	1118002	1462	3655	765		
291.9194	25:40	25:40	0	1.277	7684183	1400887	2298	5745	610	0.79(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:40	25:40	0	1.277	6033692	1118002	1462	3655	765		
291.9194	25:40	25:40	0	1.277	7684183	1400887	2298	5745	610	0.79(0.65-0.89)	
PCB-59											
289.9224	25:58	25:58	0	1.293	7062152	1016694	1462	3655	695		
291.9194	25:58	25:58	0	1.293	8924456	1284470	2298	5745	559	0.79(0.65-0.89)	
PCB-62 (C59)											
289.9224	25:58	25:58	0	1.293	7062152	1016694	1462	3655	695		
291.9194	25:58	25:58	0	1.293	8924456	1284470	2298	5745	559	0.79(0.65-0.89)	
PCB-75 (C59)											
289.9224	25:58	25:58	0	1.293	7062152	1016694	1462	3655	695		
291.9194	25:58	25:58	0	1.293	8924456	1284470	2298	5745	559	0.79(0.65-0.89)	
PCB-42											
289.9224	26:10	26:10	0	1.303	1721177	363103	1462	3655	248		
291.9194	26:10	26:10	0	1.303	2159120	464137	2298	5745	202	0.80(0.65-0.89)	
PCB-40											
289.9224	26:40	26:40	0	1.328	5520873	838442	1462	3655	573		M
291.9194	26:40	26:40	-1	1.327	7112794	1087381	2298	5745	473	0.78(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:40	26:40	0	1.328	5520873	838442	1462	3655	573		M
291.9194	26:40	26:40	-1	1.327	7112794	1087381	2298	5745	473	0.78(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:40	26:40	0	1.328	5520873	838442	1462	3655	573		M
291.9194	26:40	26:40	-1	1.327	7112794	1087381	2298	5745	473	0.78(0.65-0.89)	M
PCB-64											
289.9224	26:53	26:53	0	1.338	2461801	514689	1462	3655	352		
291.9194	26:53	26:53	0	1.338	3085994	650336	2298	5745	283	0.80(0.65-0.89)	
PCB-72											
289.9224	27:43	27:43	0	0.827	2476426	534398	1462	3655	366		
291.9194	27:43	27:43	0	0.827	3116994	679062	2298	5745	296	0.79(0.65-0.89)	
PCB-68											
289.9224	27:59	27:59	0	0.835	2785795	537889	1462	3655	368		
291.9194	28:00	27:59	1	0.835	3526840	688162	2298	5745	299	0.79(0.65-0.89)	
PCB-57											
289.9224	28:25	28:25	0	0.848	2339070	502254	1462	3655	344		
291.9194	28:25	28:25	0	0.848	2955392	642074	2298	5745	279	0.79(0.65-0.89)	
PCB-58											
289.9224	28:39	28:39	0	0.855	2866107	606369	1462	3655	415		
291.9194	28:39	28:39	0	0.855	3623516	752708	2298	5745	328	0.79(0.65-0.89)	
PCB-67											
289.9224	28:49	28:49	0	0.860	2847150	559996	1462	3655	383		
291.9194	28:49	28:49	0	0.860	3611358	695748	2298	5745	303	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:05	29:05	0	0.868	2342971	458301	1462	3655	313		
291.9194	29:05	29:05	0	0.868	3011410	601960	2298	5745	262	0.78(0.65-0.89)	
PCB-61											
289.9224	29:25	29:25	0	0.878	10307516	1202584	1462	3655	823		
291.9194	29:25	29:25	0	0.878	13151704	1561928	2298	5745	680	0.78(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:25	29:25	0	0.878	10307516	1202584	1462	3655	823		
291.9194	29:25	29:25	0	0.878	13151704	1561928	2298	5745	680	0.78(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:25	29:25	0	0.878	10307516	1202584	1462	3655	823		
291.9194	29:25	29:25	0	0.878	13151704	1561928	2298	5745	680	0.78(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:25	29:25	0	0.878	10307516	1202584	1462	3655	823		
291.9194	29:25	29:25	0	0.878	13151704	1561928	2298	5745	680	0.78(0.65-0.89)	
PCB-66											
289.9224	29:45	29:45	0	0.887	2731690	536155	1462	3655	367		
291.9194	29:45	29:45	0	0.887	3465959	682880	2298	5745	297	0.79(0.65-0.89)	
PCB-55											
289.9224	29:55	29:55	0	0.892	2823820	569106	1462	3655	389		
291.9194	29:54	29:55	-1	0.892	3589006	727982	2298	5745	317	0.79(0.65-0.89)	
PCB-56											
289.9224	30:24	30:24	0	0.907	2613458	549302	1462	3655	376		
291.9194	30:24	30:24	0	0.907	3289874	669771	2298	5745	291	0.79(0.65-0.89)	
PCB-60											
289.9224	30:38	30:38	0	0.914	2293741	463558	1462	3655	317		
291.9194	30:37	30:38	-1	0.913	2926680	589589	2298	5745	257	0.78(0.65-0.89)	
PCB-80											
289.9224	31:01	31:01	0	0.926	2899361	586408	1462	3655	401		
291.9194	31:02	31:01	1	0.926	3565926	725264	2298	5745	316	0.81(0.65-0.89)	
PCB-79											
289.9224	32:33	32:33	0	0.971	2921409	547783	1462	3655	375		
291.9194	32:33	32:33	0	0.971	3653461	697037	2298	5745	303	0.80(0.65-0.89)	
PCB-78											
289.9224	33:06	33:06	0	0.988	2410278	477132	1462	3655	326		
291.9194	33:06	33:06	0	0.988	3016855	594632	2298	5745	259	0.80(0.65-0.89)	
PCB-81											
289.9224	33:33	33:33	0	1.001	2195725	428725	1462	3655	293		
291.9194	33:33	33:33	0	1.001	2782087	541151	2298	5745	235	0.79(0.65-0.89)	
PCB-77											
289.9224	34:06	34:06	0	1.001	2371663	462175	1462	3655	316		
291.9194	34:06	34:06	0	1.001	2991787	580704	2298	5745	253	0.79(0.65-0.89)	
PCB-104L											
337.9207	25:34	25:34	0	0.813	4423106	957154	70	175	13674		
339.9178	25:34	25:34	0	0.813	2713702	596737	39	97	15301	1.63(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:32	28:32	0	1.116	1525972	324259	70	175	4632		
339.9178	28:32	28:32	-1	1.116	962158	203277	39	97	5212	1.59(1.32-1.78)	
PCB-101L											
337.9207	31:27	31:27	0		3566620	731558	70	175	10451		
339.9178	31:27	31:27	0		2203861	452480	39	97	11602	1.62(1.32-1.78)	
PCB-111L											
337.9207	34:08	34:08	0	1.085	2261581	442474	70	175	6321		
339.9178	34:08	34:08	0	1.085	1422256	279260	39	97	7161	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:05	36:05	0	1.147	5719586	1145214	4561	11402	251		
339.9178	36:05	36:05	0	1.147	3506130	695177	2762	6905	252	1.63(1.32-1.78)	
PCB-118L											
337.9207	36:25	36:25	0	1.158	6131773	1194069	4561	11402	262		
339.9178	36:25	36:25	0	1.158	3794513	746809	2762	6905	270	1.62(1.32-1.78)	
PCB-114L											
337.9207	36:56	36:56	0	1.174	5946495	1146808	4561	11402	251		
339.9178	36:56	36:56	0	1.174	3690459	715049	2762	6905	259	1.61(1.32-1.78)	
PCB-105L											
337.9207	37:35	37:35	0	1.195	5663672	1092119	4561	11402	239		
339.9178	37:35	37:35	0	1.195	3611244	707336	2762	6905	256	1.57(1.32-1.78)	
PCB-127L											
337.9207	39:03	39:03	0		5907644	1115564	4561	11402	245		
339.9178	39:03	39:03	0		3768038	723689	2762	6905	262	1.57(1.32-1.78)	
PCB-126L											
337.9207	40:40	40:40	0	1.293	5814069	1084717	4561	11402	238		
339.9178	40:40	40:40	0	1.293	3687380	684979	2762	6905	248	1.58(1.32-1.78)	
PCB-104											
325.8804	25:36	25:36	0	1.001	2257839	499038	121	302	4124		
327.8775	25:36	25:36	0	1.001	1392313	306346	35	87	8753	1.62(1.32-1.78)	
PCB-96											
325.8804	25:58	25:58	0	1.016	2261526	496177	121	302	4101		
327.8775	25:58	25:58	0	1.016	1453090	320532	35	87	9158	1.56(1.32-1.78)	
PCB-103											
325.8804	27:53	27:53	0	1.091	2031763	443257	121	302	3663		
327.8775	27:53	27:53	0	1.091	1293611	273595	35	87	7817	1.57(1.32-1.78)	
PCB-94											
325.8804	28:07	28:07	0	1.100	1581362	338529	121	302	2798		
327.8775	28:07	28:07	0	1.100	986744	209277	35	87	5979	1.60(1.32-1.78)	
PCB-95											
325.8804	28:33	28:33	0	1.117	1760170	364727	121	302	3014		
327.8775	28:33	28:33	0	1.117	1106282	238433	35	87	6812	1.59(1.32-1.78)	
PCB-93											
325.8804	28:46	28:46	0	1.125	3559996	692952	121	302	5727		
327.8775	28:46	28:46	0	1.125	2213152	432421	35	87	12355	1.61(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:46	28:46	0	1.125	3559996	692952	121	302	5727		
327.8775	28:46	28:46	0	1.125	2213152	432421	35	87	12355	1.61(1.32-1.78)	
PCB-98											
325.8804	28:55	28:55	0	1.131	3562968	428054	121	302	3538		M
327.8775	28:55	28:55	0	1.131	2255083	276305	35	87	7894	1.58(1.32-1.78)	M
PCB-102 (C98)											
325.8804	28:55	28:55	0	1.131	3562968	428054	121	302	3538		M
327.8775	28:55	28:55	0	1.131	2255083	276305	35	87	7894	1.58(1.32-1.78)	M
PCB-88											
325.8804	29:25	29:25	0	1.150	3477014	371989	121	302	3074		
327.8775	29:25	29:25	0	1.150	2150309	226324	35	87	6466	1.62(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:25	29:25	0	1.150	3477014	371989	121	302	3074		
327.8775	29:25	29:25	0	1.150	2150309	226324	35	87	6466	1.62(1.32-1.78)	
PCB-84											
325.8804	29:38	29:38	0	1.159	1587469	314467	121	302	2599		
327.8775	29:38	29:38	0	1.159	961817	201413	35	87	5755	1.65(1.32-1.78)	
PCB-89											
325.8804	30:07	30:07	0	1.178	1614598	336857	121	302	2784		
327.8775	30:07	30:07	0	1.178	1021990	205893	35	87	5883	1.58(1.32-1.78)	
PCB-121											
325.8804	30:31	30:31	0	1.194	2793242	567201	121	302	4688		
327.8775	30:31	30:31	0	1.194	1737683	354376	35	87	10125	1.61(1.32-1.78)	
PCB-92											
325.8804	30:54	30:54	0	0.856	1878963	374775	121	302	3097		
327.8775	30:54	30:54	0	0.856	1173171	236977	35	87	6771	1.60(1.32-1.78)	
PCB-90											
325.8804	31:28	31:28	0	1.231	6147437	891906	121	302	7371		
327.8775	31:28	31:28	0	1.231	3838940	550937	35	87	15741	1.60(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:28	31:28	0	1.231	6147437	891906	121	302	7371		
327.8775	31:28	31:28	0	1.231	3838940	550937	35	87	15741	1.60(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:28	31:28	0	1.231	6147437	891906	121	302	7371		
327.8775	31:28	31:28	0	1.231	3838940	550937	35	87	15741	1.60(1.32-1.78)	
PCB-83											
325.8804	32:03	32:03	0	1.254	3695331	470147	121	302	3886		
327.8775	32:03	32:03	0	1.254	2306639	291315	35	87	8323	1.60(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:03	32:03	0	1.254	3695331	470147	121	302	3886		
327.8775	32:03	32:03	0	1.254	2306639	291315	35	87	8323	1.60(1.32-1.78)	
PCB-112											
325.8804	32:10	32:10	0	1.258	3017077	587810	121	302	4858		
327.8775	32:10	32:10	0	1.258	1883271	373488	35	87	10671	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:33	32:33	0	1.273	13505410	1426240	121	302	11787		M
327.8775	32:33	32:33	0	1.273	8464143	900911	35	87	25740	1.60(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:33	32:33	0	1.273	13505410	1426240	121	302	11787		M
327.8775	32:33	32:33	0	1.273	8464143	900911	35	87	25740	1.60(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:33	32:33	0	1.273	13505410	1426240	121	302	11787		M
327.8775	32:33	32:33	0	1.273	8464143	900911	35	87	25740	1.60(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:33	32:33	0	1.273	13505410	1426240	121	302	11787		M
327.8775	32:33	32:33	0	1.273	8464143	900911	35	87	25740	1.60(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:33	32:33	0	1.273	13505410	1426240	121	302	11787		M
327.8775	32:33	32:33	0	1.273	8464143	900911	35	87	25740	1.60(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:33	32:33	0	1.273	13505410	1426240	121	302	11787		M
327.8775	32:33	32:33	0	1.273	8464143	900911	35	87	25740	1.60(1.32-1.78)	M
PCB-85											
325.8804	33:16	33:16	0	1.301	6710915	814346	121	302	6730		
327.8775	33:16	33:16	0	1.301	4215153	501642	35	87	14333	1.59(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:16	33:16	0	1.301	6710915	814346	121	302	6730		
327.8775	33:16	33:16	0	1.301	4215153	501642	35	87	14333	1.59(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:16	33:16	0	1.301	6710915	814346	121	302	6730		
327.8775	33:16	33:16	0	1.301	4215153	501642	35	87	14333	1.59(1.32-1.78)	
PCB-110											
325.8804	33:28	33:28	0	1.309	5252783	662219	121	302	5473		
327.8775	33:28	33:28	0	1.309	3282873	411322	35	87	11752	1.60(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:28	33:28	0	1.309	5252783	662219	121	302	5473		
327.8775	33:28	33:28	0	1.309	3282873	411322	35	87	11752	1.60(1.32-1.78)	
PCB-82											
325.8804	33:46	33:46	0	1.321	1797511	343558	121	302	2839		
327.8775	33:46	33:46	0	1.321	1122624	219514	35	87	6272	1.60(1.32-1.78)	
PCB-111											
325.8804	34:09	34:09	0	1.336	2579227	515396	121	302	4259		
327.8775	34:09	34:09	0	1.336	1632454	322157	35	87	9204	1.58(1.32-1.78)	
PCB-120											
325.8804	34:37	34:37	0	1.354	3068882	607927	121	302	5024		
327.8775	34:37	34:37	0	1.354	1953708	390367	35	87	11153	1.57(1.32-1.78)	
PCB-108											
325.8804	35:45	35:45	0	1.398	6377846	1171397	3864	9660	303		
327.8775	35:45	35:45	0	1.398	3985156	765419	1913	4782	400	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:45	35:45	0	1.398	6377846	1171397	3864	9660	303		
327.8775	35:45	35:45	0	1.398	3985156	765419	1913	4782	400	1.60(1.32-1.78)	
PCB-107											
325.8804	36:00	36:00	0	1.408	3383007	642615	3864	9660	166		
327.8775	36:00	36:00	0	1.408	2373355	424133	1913	4782	222	1.43(1.32-1.78)	
PCB-123											
325.8804	36:07	36:07	0	1.001	3147995	602927	3864	9660	156		
327.8775	36:07	36:07	0	1.001	1836933	373493	1913	4782	195	1.71(1.32-1.78)	
PCB-106											
325.8804	36:13	36:13	0	1.004	3227837	631034	3864	9660	163		
327.8775	36:13	36:13	0	1.004	2051834	408446	1913	4782	214	1.57(1.32-1.78)	
PCB-118											
325.8804	36:26	36:26	0	1.001	3586331	665127	3864	9660	172		
327.8775	36:26	36:26	0	1.001	2303321	426805	1913	4782	223	1.56(1.32-1.78)	
PCB-122											
325.8804	36:47	36:47	0	1.010	2858822	547250	3864	9660	142		
327.8775	36:47	36:47	0	1.010	1823141	365050	1913	4782	191	1.57(1.32-1.78)	
PCB-114											
325.8804	36:57	36:57	0	1.000	3270750	580825	3864	9660	150		
327.8775	36:57	36:57	0	1.000	2105141	373967	1913	4782	195	1.55(1.32-1.78)	
PCB-105											
325.8804	37:37	37:37	0	1.001	3530131	628662	3864	9660	163		
327.8775	37:37	37:37	0	1.001	2139902	402531	1913	4782	210	1.65(1.32-1.78)	
PCB-127											
325.8804	39:05	39:05	0	1.040	3343526	611671	3864	9660	158		
327.8775	39:05	39:05	0	1.040	2146326	382208	1913	4782	200	1.56(1.32-1.78)	
PCB-126											
325.8804	40:41	40:41	0	1.001	3318120	561049	3864	9660	145		
327.8775	40:41	40:41	0	1.001	2093522	352255	1913	4782	184	1.58(1.32-1.78)	
PCB-155L											
371.8817	31:14	31:14	0	0.790	3714922	760513	22	55	34569		
373.8788	31:14	31:14	0	0.790	2868674	576865	17	42	33933	1.29(1.05-1.43)	
PCB-153L											
371.8817	38:17	38:17	0	0.900	1895818	373690	2000	5000	187		
373.8788	38:17	38:17	0	0.900	1472609	286614	1419	3547	202	1.29(1.05-1.43)	
PCB-138L											
371.8817	39:32	39:32	0		3808651	739945	2000	5000	370		
373.8788	39:32	39:32	0		3001206	582185	1419	3547	410	1.27(1.05-1.43)	
PCB-167L											
371.8817	42:32	42:32	0	1.076	4831497	915835	2000	5000	458		
373.8788	42:32	42:32	0	1.076	3759897	716456	1419	3547	505	1.29(1.05-1.43)	
PCB-156L											
371.8817	43:40	43:40	0	1.105	9505704	1268103	2000	5000	634		
373.8788	43:40	43:40	0	1.105	7522191	1003735	1419	3547	707	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-157L (C156L)											
371.8817	43:40	43:40	0	1.105	9505704	1268103	2000	5000	634		
373.8788	43:40	43:40	0	1.105	7522191	1003735	1419	3547	707	1.26(1.05-1.43)	
PCB-169L											
371.8817	46:54	46:54	0	1.187	5014600	909526	2000	5000	455		
373.8788	46:54	46:54	0	1.187	3996322	727035	1419	3547	512	1.25(1.05-1.43)	
PCB-155											
359.8415	31:15	31:15	0	1.001	1709835	345277	44	110	7847		
361.8385	31:15	31:15	0	1.001	1352607	274352	15	37	18290	1.26(1.05-1.43)	
PCB-152											
359.8415	31:27	31:27	0	1.007	1830611	364722	44	110	8289		
361.8385	31:27	31:27	0	1.007	1444577	289508	15	37	19301	1.27(1.05-1.43)	
PCB-150											
359.8415	31:37	31:37	0	1.012	1898851	386699	44	110	8789		
361.8385	31:37	31:37	0	1.012	1494656	296555	15	37	19770	1.27(1.05-1.43)	
PCB-136											
359.8415	31:59	31:59	0	1.024	1889582	374080	44	110	8502		
361.8385	31:59	31:59	0	1.024	1476974	289853	15	37	19324	1.28(1.05-1.43)	
PCB-145											
359.8415	32:16	32:16	0	1.033	1765308	339902	44	110	7725		
361.8385	32:17	32:16	1	1.034	1418998	283207	15	37	18880	1.24(1.05-1.43)	
PCB-148											
359.8415	33:47	33:47	0	1.082	1372350	272811	44	110	6200		
361.8385	33:47	33:47	0	1.082	1105618	217789	15	37	14519	1.24(1.05-1.43)	
PCB-135											
359.8415	34:22	34:22	0	1.100	2659890	305197	44	110	6936		M
361.8385	34:22	34:22	0	1.100	2125679	249709	15	37	16647	1.25(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:22	34:22	0	1.100	2659890	305197	44	110	6936		M
361.8385	34:22	34:22	0	1.100	2125679	249709	15	37	16647	1.25(1.05-1.43)	M
PCB-154											
359.8415	34:38	34:38	0	1.109	1532071	309453	44	110	7033		
361.8385	34:38	34:38	0	1.109	1193851	236822	15	37	15788	1.28(1.05-1.43)	
PCB-144											
359.8415	34:56	34:56	0	1.119	1420414	278706	44	110	6334		
361.8385	34:56	34:56	0	1.119	1135091	220207	15	37	14680	1.25(1.05-1.43)	
PCB-147											
359.8415	35:18	35:18	0	1.130	4122012	777398	874	2185	889		
361.8385	35:18	35:18	0	1.130	3266062	622943	667	1667	934	1.26(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:18	35:18	0	1.130	4122012	777398	874	2185	889		
361.8385	35:18	35:18	0	1.130	3266062	622943	667	1667	934	1.26(1.05-1.43)	
PCB-134											
359.8415	35:36	35:36	0	1.140	3631853	382836	874	2185	438		
361.8385	35:36	35:36	0	1.140	2851650	303428	667	1667	455	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-143 (C134)											
359.8415	35:36	35:36	0	1.140	3631853	382836	874	2185	438		
361.8385	35:36	35:36	0	1.140	2851650	303428	667	1667	455	1.27(1.05-1.43)	
PCB-139											
359.8415	35:53	35:53	0	1.149	3869512	703989	874	2185	805		
361.8385	35:53	35:53	0	1.149	3058998	543710	667	1667	815	1.26(1.05-1.43)	
PCB-140 (C139)											
359.8415	35:53	35:53	0	1.149	3869512	703989	874	2185	805		
361.8385	35:53	35:53	0	1.149	3058998	543710	667	1667	815	1.26(1.05-1.43)	
PCB-131											
359.8415	36:06	36:06	0	1.156	1697558	331546	874	2185	379		
361.8385	36:05	36:06	-1	1.156	1346262	266608	667	1667	400	1.26(1.05-1.43)	
PCB-142											
359.8415	36:14	36:14	0	1.160	1756167	344639	874	2185	394		
361.8385	36:14	36:14	0	1.160	1406785	274903	667	1667	412	1.25(1.05-1.43)	
PCB-132											
359.8415	36:34	36:34	0	1.171	1668180	322483	874	2185	369		
361.8385	36:34	36:34	0	1.171	1294045	245366	667	1667	368	1.29(1.05-1.43)	
PCB-133											
359.8415	37:04	37:04	0	1.187	1802689	347488	874	2185	398		
361.8385	37:04	37:04	0	1.187	1427941	271069	667	1667	406	1.26(1.05-1.43)	
PCB-165											
359.8415	37:27	37:27	0	0.881	2295730	442975	874	2185	507		
361.8385	37:27	37:27	0	0.881	1834158	364830	667	1667	547	1.25(1.05-1.43)	
PCB-146											
359.8415	37:42	37:42	0	0.887	2251683	440776	874	2185	504		
361.8385	37:42	37:42	0	0.887	1802165	348710	667	1667	523	1.25(1.05-1.43)	
PCB-161											
359.8415	37:50	37:50	0	0.890	2424937	484752	874	2185	555		
361.8385	37:50	37:50	0	0.890	1940767	379623	667	1667	569	1.25(1.05-1.43)	
PCB-153											
359.8415	38:20	38:20	0	0.901	4996330	732957	874	2185	839		
361.8385	38:20	38:20	0	0.901	3958103	575223	667	1667	862	1.26(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:20	38:20	0	0.901	4996330	732957	874	2185	839		
361.8385	38:20	38:20	0	0.901	3958103	575223	667	1667	862	1.26(1.05-1.43)	
PCB-141											
359.8415	38:30	38:30	0	0.905	1921771	351209	874	2185	402		
361.8385	38:30	38:30	0	0.905	1534954	278951	667	1667	418	1.25(1.05-1.43)	
PCB-130											
359.8415	38:55	38:55	0	0.915	1587194	310500	874	2185	355		
361.8385	38:55	38:55	0	0.915	1258274	250177	667	1667	375	1.26(1.05-1.43)	
PCB-137											
359.8415	39:08	39:08	0	0.920	1779235	353498	874	2185	404		
361.8385	39:08	39:08	0	0.920	1382351	268137	667	1667	402	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-164											
359.8415	39:15	39:15	0	0.923	2446081	466016	874	2185	533		
361.8385	39:15	39:15	0	0.923	1897616	363890	667	1667	546	1.29(1.05-1.43)	
PCB-129											
359.8415	39:34	39:34	0	0.930	8666461	969623	874	2185	1109		M
361.8385	39:33	39:34	-1	0.930	6894710	773363	667	1667	1159	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:34	39:34	0	0.930	8666461	969623	874	2185	1109		M
361.8385	39:33	39:34	-1	0.930	6894710	773363	667	1667	1159	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:34	39:34	0	0.930	8666461	969623	874	2185	1109		M
361.8385	39:33	39:34	-1	0.930	6894710	773363	667	1667	1159	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:34	39:34	0	0.930	8666461	969623	874	2185	1109		M
361.8385	39:33	39:34	-1	0.930	6894710	773363	667	1667	1159	1.26(1.05-1.43)	M
PCB-158											
359.8415	39:56	39:56	0	0.939	2937459	528033	874	2185	604		
361.8385	39:56	39:56	0	0.939	2353834	426504	667	1667	639	1.25(1.05-1.43)	
PCB-128											
359.8415	40:47	40:47	0	0.959	4715620	665061	874	2185	761		
361.8385	40:48	40:47	1	0.959	3714592	529113	667	1667	793	1.27(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:47	40:47	0	0.959	4715620	665061	874	2185	761		
361.8385	40:48	40:47	1	0.959	3714592	529113	667	1667	793	1.27(1.05-1.43)	
PCB-159											
359.8415	41:48	41:48	0	0.983	3177104	612661	874	2185	701		
361.8385	41:48	41:48	0	0.983	2515597	475633	667	1667	713	1.26(1.05-1.43)	
PCB-162											
359.8415	42:05	42:05	0	0.989	2847857	516801	874	2185	591		
361.8385	42:05	42:05	0	0.989	2283120	413280	667	1667	620	1.25(1.05-1.43)	
PCB-167											
359.8415	42:33	42:33	0	1.001	2617241	480863	874	2185	550		
361.8385	42:33	42:33	0	1.001	2094490	388246	667	1667	582	1.25(1.05-1.43)	
PCB-156											
359.8415	43:42	43:42	0	1.001	5236059	664949	874	2185	761		
361.8385	43:42	43:42	0	1.001	4167302	533740	667	1667	800	1.26(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:42	43:42	0	1.001	5236059	664949	874	2185	761		
361.8385	43:42	43:42	0	1.001	4167302	533740	667	1667	800	1.26(1.05-1.43)	
PCB-169											
359.8415	46:55	46:55	0	1.000	2887278	499972	874	2185	572		
361.8385	46:55	46:55	0	1.000	2326925	407540	667	1667	611	1.24(1.05-1.43)	
PCB-188L											
405.8428	36:56	36:56	0	0.820	3706699	723011	88	220	8216		
407.8398	36:56	36:56	0	0.820	3476204	678616	28	70	24236	1.07(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-178L											
405.8428	40:00	40:00	0	0.887	1375383	261024	88	220	2966		
407.8398	40:00	40:00	0	0.887	1232018	234321	28	70	8369	1.12(0.89-1.21)	
PCB-180L											
405.8428	45:04	45:04	0		2996995	571173	88	220	6491		
407.8398	45:04	45:04	0		2801770	526159	28	70	18791	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:19	46:19	0	1.028	2675355	497557	88	220	5654		
407.8398	46:19	46:19	0	1.028	2482420	466693	28	70	16668	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:25	49:25	0	1.097	5761755	1057842	594	1485	1781		
407.8398	49:25	49:25	0	1.097	5406469	983493	1313	3282	749	1.07(0.89-1.21)	
PCB-188											
393.8025	36:58	36:58	0	1.001	2030834	389990	4	10	97498		
395.7995	36:58	36:58	0	1.001	1959148	378352	41	102	9228	1.04(0.89-1.21)	
PCB-179											
393.8025	37:19	37:19	0	1.010	2037666	393416	4	10	98354		
395.7995	37:19	37:19	0	1.010	1948695	377101	41	102	9198	1.05(0.89-1.21)	
PCB-184											
393.8025	37:49	37:49	0	1.024	2029028	401827	4	10	100457		
395.7995	37:49	37:49	0	1.024	1934483	380749	41	102	9287	1.05(0.89-1.21)	
PCB-176											
393.8025	38:11	38:11	0	1.033	1783150	340584	4	10	85146		
395.7995	38:11	38:11	0	1.033	1725207	321884	41	102	7851	1.03(0.89-1.21)	
PCB-186											
393.8025	38:38	38:38	0	1.046	2245391	423880	4	10	105970		
395.7995	38:38	38:38	0	1.046	2134996	397985	41	102	9707	1.05(0.89-1.21)	
PCB-178											
393.8025	40:01	40:01	0	1.083	1360530	264812	4	10	66203		
395.7995	40:01	40:01	0	1.083	1311659	262255	41	102	6396	1.04(0.89-1.21)	
PCB-175											
393.8025	40:39	40:39	0	1.100	1483070	280977	4	10	70244		
395.7995	40:39	40:39	0	1.100	1360732	254883	41	102	6217	1.09(0.89-1.21)	
PCB-187											
393.8025	40:55	40:55	0	1.108	1711155	328870	4	10	82218		
395.7995	40:55	40:55	0	1.108	1663796	316323	41	102	7715	1.03(0.89-1.21)	
PCB-182											
393.8025	41:07	41:07	0	1.113	1522863	284068	4	10	71017		
395.7995	41:07	41:07	-1	1.113	1405228	261289	41	102	6373	1.08(0.89-1.21)	
PCB-183											
393.8025	41:32	41:32	0	1.124	2958935	309118	4	10	77280		M
395.7995	41:31	41:32	-1	1.124	2804504	286771	41	102	6994	1.06(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:32	41:32	0	1.124	2958935	309118	4	10	77280		M
395.7995	41:31	41:32	-1	1.124	2804504	286771	41	102	6994	1.06(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-174											
393.8025	41:46	41:46	0	1.131	1555257	297104	4	10	74276		
395.7995	41:46	41:46	0	1.131	1491661	286249	41	102	6982	1.04(0.89-1.21)	
PCB-177											
393.8025	42:12	42:12	0	1.142	1516259	283521	4	10	70880		
395.7995	42:12	42:12	0	1.142	1494153	279277	41	102	6812	1.01(0.89-1.21)	
PCB-181											
393.8025	42:35	42:35	0	1.153	1447375	275555	4	10	68889		
395.7995	42:35	42:35	0	1.153	1402066	270689	41	102	6602	1.03(0.89-1.21)	
PCB-171											
393.8025	42:48	42:48	0	1.159	2788583	467571	4	10	116893		
395.7995	42:48	42:48	0	1.159	2651585	430785	41	102	10507	1.05(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:48	42:48	0	1.159	2788583	467571	4	10	116893		
395.7995	42:48	42:48	0	1.159	2651585	430785	41	102	10507	1.05(0.89-1.21)	
PCB-172											
393.8025	44:26	44:26	0	0.899	1415381	256053	4	10	64013		
395.7995	44:27	44:26	1	0.899	1329011	249799	41	102	6093	1.06(0.89-1.21)	
PCB-192											
393.8025	44:43	44:43	0	0.905	2297992	428664	4	10	107166		
395.7995	44:43	44:43	0	0.905	2150447	419388	41	102	10229	1.07(0.89-1.21)	
PCB-180											
393.8025	45:03	45:03	0	0.912	3751956	502249	4	10	125562		
395.7995	45:03	45:03	0	0.912	3622550	485303	41	102	11837	1.04(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:03	45:03	0	0.912	3751956	502249	4	10	125562		
395.7995	45:03	45:03	0	0.912	3622550	485303	41	102	11837	1.04(0.89-1.21)	
PCB-191											
393.8025	45:27	45:27	0	0.920	2178378	408375	4	10	102094		
395.7995	45:27	45:27	0	0.920	2003807	369691	41	102	9017	1.09(0.89-1.21)	
PCB-170											
393.8025	46:20	46:20	0	0.938	1525246	279246	4	10	69812		
395.7995	46:20	46:20	0	0.938	1447627	265516	41	102	6476	1.05(0.89-1.21)	
PCB-190											
393.8025	46:51	46:51	0	0.948	2223627	402163	4	10	100541		
395.7995	46:51	46:51	0	0.948	2100670	378400	41	102	9229	1.06(0.89-1.21)	
PCB-189											
393.8025	49:27	49:27	0	1.001	2825814	512021	575	1437	890		
395.7995	49:27	49:27	0	1.001	2701775	485248	652	1630	744	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:18	42:18	0	0.821	2707133	506786	1	2	506786		
441.8008	42:18	42:18	0	0.821	3026324	575264	18	45	31959	0.89(0.76-1.02)	
PCB-194L											
439.8038	51:32	51:32	0		3903436	707981	294	735	2408		
441.8008	51:32	51:32	0		4247620	787654	238	595	3309	0.92(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205L											
439.8038	52:00	52:00	0	1.009	4491049	805590	294	735	2740		
441.8008	52:01	52:00	1	1.009	4931084	883669	238	595	3713	0.91(0.76-1.02)	
PCB-202											
427.7635	42:19	42:19	0	1.001	1443439	272417	7	17	38917		
429.7606	42:19	42:19	0	1.001	1557319	294927	81	202	3641	0.93(0.76-1.02)	
PCB-201											
427.7635	43:14	43:14	0	1.022	1380929	265980	7	17	37997		
429.7606	43:14	43:14	0	1.022	1499383	287813	81	202	3553	0.92(0.76-1.02)	
PCB-204											
427.7635	43:55	43:55	0	1.038	1487110	279379	7	17	39911		
429.7606	43:55	43:55	0	1.038	1619523	306600	81	202	3785	0.92(0.76-1.02)	
PCB-197											
427.7635	44:08	44:08	0	1.044	1454189	290008	7	17	41430		
429.7606	44:08	44:08	0	1.044	1752720	320849	81	202	3961	0.83(0.76-1.02)	
PCB-200											
427.7635	44:15	44:15	0	1.046	1503521	265783	7	17	37969		
429.7606	44:15	44:15	0	1.046	1522009	304203	81	202	3756	0.99(0.76-1.02)	
PCB-198											
427.7635	47:02	47:02	0	1.112	2500280	306993	7	17	43856		
429.7606	47:01	47:02	-1	1.112	2760560	339386	81	202	4190	0.91(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:02	47:02	0	1.112	2500280	306993	7	17	43856		
429.7606	47:01	47:02	-1	1.112	2760560	339386	81	202	4190	0.91(0.76-1.02)	
PCB-196											
427.7635	47:42	47:42	0	0.917	1183879	210057	7	17	30008		
429.7606	47:43	47:42	1	0.918	1288405	232579	81	202	2871	0.92(0.76-1.02)	
PCB-203											
427.7635	47:54	47:54	0	0.921	1368994	258541	7	17	36934		
429.7606	47:54	47:54	0	0.921	1537246	286467	81	202	3537	0.89(0.76-1.02)	
PCB-195											
427.7635	49:12	49:12	0	0.946	1880075	340365	416	1040	818		
429.7606	49:13	49:12	1	0.947	2092728	385249	1250	3125	308	0.90(0.76-1.02)	
PCB-194											
427.7635	51:34	51:34	0	0.992	2181807	394625	416	1040	949		
429.7606	51:34	51:34	0	0.992	2444262	442234	1250	3125	354	0.89(0.76-1.02)	
PCB-205											
427.7635	52:01	52:01	0	1.000	2394823	441520	416	1040	1061		
429.7606	52:01	52:01	0	1.000	2659614	486381	1250	3125	389	0.90(0.76-1.02)	
PCB-208L											
473.7648	48:58	48:58	0	0.950	3519623	674474	895	2237	754		
475.7619	48:57	48:58	-1	0.950	4430637	829552	589	1472	1408	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:45	53:45	0	1.043	2695037	485551	895	2237	543		
475.7619	53:45	53:45	0	1.043	3322852	612977	589	1472	1041	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-208											
461.7246	48:59	48:59	0	1.000	1945914	362752	466	1165	778		
463.7216	48:59	48:59	0	1.000	2415319	467786	2621	6552	178	0.81(0.65-0.89)	
PCB-207											
461.7246	49:55	49:55	0	1.019	2041686	377986	466	1165	811		
463.7216	49:55	49:55	0	1.019	2550780	468596	2621	6552	179	0.80(0.65-0.89)	
PCB-206											
461.7246	53:47	53:47	0	1.000	1630980	301146	466	1165	646		
463.7216	53:47	53:47	0	1.000	2036409	371774	2621	6552	142	0.80(0.65-0.89)	
PCB-209L											
507.7258	55:22	55:22	0	1.074	2548978	446545	110	275	4060		
509.7229	55:22	55:22	0	1.074	3559672	615645	100	250	6156	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:23	55:23	0	1.000	1414121	248364	75	187	3312		
497.6826	55:23	55:23	0	1.000	1994168	339159	85	212	3990	0.71(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61CV1668CS3_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville
CCV Relative RT Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
 Lims ID: WDMCCV
 Client ID:
 Sample Type: WDMCCV
 Inject. Date: 12-Jun-2024 11:22:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Xcalibur_System Instrument ID: D2D
 Sublist: chrom-PCBs_D2D*sub2
 Method: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 12-Jun-2024 12:48:49 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1611

First Level Reviewer: P0IK Date: 12-Jun-2024 12:48:49

Start Cal Date: 31-May-2024 14:36:00

End Cal Date: 31-May-2024 21:13:00

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-1L		11:34	11:33	0	15	0.7253	0.7269	0.717 - 0.7472
PCB-3L		13:43	13:41	-2	15	0.8606	0.8610	0.849 - 0.8798
PCB-1	L	11:35	11:33	-1		1.0011	1.0000	0.995 - 1.0085
PCB-2		13:34	13:32	-2		0.9885	0.9885	0.985 - 0.9925
PCB-3	L	13:44	13:42	-2		1.0010	1.0010	0.998 - 1.0048
PCB-4L		13:59	13:57	-2	15	0.8771	0.8775	0.865 - 0.8956
PCB-9L		15:57	15:54	-3		1.0000	1.0000	0.987 - 1.0128
PCB-8L		16:48	16:43	-4		1.1991	*1.1990	1.192 - 1.1989
PCB-15L		19:52	19:47	-4	15	1.2459	1.2450	1.233 - 1.2530
PCB-4	L	14:00	13:58	-2		1.0009	1.0009	0.994 - 1.0058
PCB-10		14:10	14:07	-2		1.0132	1.0123	1.010 - 1.0168
PCB-9		15:58	15:55	-3		1.1421	1.1405	1.135 - 1.1415
PCB-7		16:08	16:04	-3		1.1534	1.1518	1.147 - 1.1538
PCB-6		16:22	16:19	-3		1.1703	1.1698	1.164 - 1.1706
PCB-5		16:41	16:37	-3		1.1929	1.1915	1.186 - 1.1926
PCB-8		16:48	16:44	-3		1.2013	1.2000	1.194 - 1.2008
PCB-14		18:26	18:21	-4		0.9278	0.9275	0.926 - 0.9305
PCB-11		19:16	19:12	-4		0.9702	0.9701	0.968 - 0.9725
PCB-12/13		19:34	19:29	-4		0.9848	0.9847	0.983 - 0.9875
PCB-15	L	19:53	19:48	-5		1.0013	1.0007	0.997 - 1.0050
PCB-19L		17:05	17:02	-3	15	0.8402	0.8403	0.831 - 0.8547
PCB-32L		20:20	20:16	-4		1.0000	1.0000	0.998 - 1.0024
PCB-31L		22:37	22:31	-5		1.0000	1.0000	0.998 - 1.0022
PCB-28L		22:55	22:48	-7		1.0130	1.0125	1.006 - 1.0201
PCB-37L		26:54	26:47	-7	15	1.1902	1.1898	1.178 - 1.1995

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-19	L	17:06	17:02	-3		1.0008	1.0008	0.996 - 1.0058
PCB-18/30		18:57	18:52	-4		1.1085	1.1082	1.104 - 1.1093
PCB-17		19:23	19:19	-4		1.1347	1.1344	1.129 - 1.1352
PCB-27		19:37	19:32	-5		1.1478	1.1468	1.141 - 1.1471
PCB-24		19:44	19:39	-4		1.1547	*1.1545	1.148 - 1.1542
PCB-16		19:51	19:47	-4		1.1617	1.1615	1.156 - 1.1621
PCB-32		20:22	20:17	-5		1.1917	*1.1909	1.185 - 1.1908
PCB-34		21:37	21:32	-5		1.2654	*1.2645	1.257 - 1.2623
PCB-23		21:47	21:41	-5		1.2744	*1.2736	1.266 - 1.2715
PCB-26/29		22:06	22:00	-5		1.2931	*1.2924	1.282 - 1.2915
PCB-25		22:19	22:13	-5		0.8293	0.8295	0.829 - 0.8325
PCB-31		22:38	22:32	-6		0.8412	0.8409	0.840 - 0.8438
PCB-20/28		22:56	22:50	-6		0.8526	0.8524	0.851 - 0.8568
PCB-21/33		23:06	23:00	-6		0.8588	0.8586	0.858 - 0.8637
PCB-22		23:33	23:28	-5		0.8754	0.8758	0.875 - 0.8786
PCB-36		25:07	25:01	-6		0.9334	0.9336	0.932 - 0.9352
PCB-39		25:28	25:22	-6		0.9467	0.9470	0.945 - 0.9483
PCB-38		26:03	25:57	-6		0.9681	0.9685	0.966 - 0.9695
PCB-35		26:31	26:24	-7		0.9857	0.9857	0.984 - 0.9875
PCB-37	L	26:55	26:49	-6		1.0005	1.0010	0.999 - 1.0024
PCB-54L		20:10	20:05	-4	15	0.8149	0.8154	0.811 - 0.8247
PCB-52L		24:45	24:38	-6		1.0000	1.0000	0.992 - 1.0083
PCB-79L		32:41	32:32	-8		0.9707	0.9706	0.969 - 0.9718
PCB-81L		33:40	33:31	-8	15	1.3604	1.3605	1.351 - 1.3641
PCB-77L		34:13	34:05	-8	15	1.3832	1.3833	1.373 - 1.3867
PCB-54	L	20:12	20:06	-5		1.0000	1.0000	0.996 - 1.0041
PCB-50/53		22:23	22:16	-6		1.1097	1.1086	1.102 - 1.1106
PCB-45/51		23:06	23:00	-6		1.1459	1.1449	1.137 - 1.1453
PCB-46		23:20	23:15	-5		1.1573	1.1570	1.153 - 1.1576
PCB-52		24:46	24:40	-6		1.2284	*1.2277	1.222 - 1.2263
PCB-43/73		24:55	24:48	-6		1.2353	*1.2347	1.230 - 1.2346
PCB-49/69		25:12	25:05	-7		1.2499	1.2487	1.242 - 1.2499
PCB-48		25:32	25:25	-7		1.2665	*1.2652	1.259 - 1.2636
PCB-44/47/65		25:47	25:40	-7		1.2785	*1.2773	1.269 - 1.2770
PCB-59/62/75		26:05	25:58	-6		1.2931	*1.2926	1.284 - 1.2919
PCB-42		26:17	26:10	-6		1.3033	*1.3028	1.296 - 1.3007
PCB-40/41/71		26:47	26:40	-6		1.3280	*1.3277	1.317 - 1.3250
PCB-64		27:00	26:53	-7		1.3388	*1.3379	1.331 - 1.3355
PCB-72		27:50	27:43	-7		0.8271	0.8267	0.826 - 0.8291
PCB-68		28:07	27:59	-7		0.8354	0.8351	0.835 - 0.8375
PCB-57		28:33	28:25	-7		0.8480	0.8477	0.847 - 0.8500
PCB-58		28:47	28:39	-7		0.8552	0.8549	0.854 - 0.8574
PCB-67		28:57	28:49	-7		0.8601	0.8599	0.859 - 0.8620
PCB-63		29:13	29:05	-7		0.8677	0.8675	0.866 - 0.8694
PCB-61/70/74/76		29:33	29:25	-7		0.8780	0.8778	0.875 - 0.8810
PCB-66		29:52	29:45	-7		0.8875	0.8874	0.886 - 0.8894

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-55		30:02	29:55	-7		0.8920	0.8923	0.891 - 0.8943
PCB-56		30:32	30:24	-7		0.9072	0.9072	0.907 - 0.9098
PCB-60		30:45	30:38	-7		0.9137	0.9137	0.913 - 0.9158
PCB-80		31:10	31:01	-8		0.9259	0.9255	0.924 - 0.9268
PCB-79		32:42	32:33	-9		0.9715	0.9710	0.970 - 0.9726
PCB-78		33:15	33:06	-8		0.9878	0.9878	0.986 - 0.9890
PCB-81	T	33:41	33:33	-8		1.0008	1.0008	0.999 - 1.0020
PCB-77	T/L	34:15	34:06	-8		1.0007	1.0008	0.999 - 1.0019
PCB-104L		25:42	25:34	-7	15	0.8129	0.8129	0.810 - 0.8199
PCB-95L		28:40	28:32	-7		1.1155	1.1161	1.112 - 1.1179
PCB-101L		31:36	31:27	-8		1.0000	1.0000	0.994 - 1.0065
PCB-111L		34:17	34:08	-9		1.0850	1.0850	1.079 - 1.0891
PCB-123L		36:15	36:05	-9	15	1.1469	1.1472	1.141 - 1.1511
PCB-118L		36:34	36:25	-9	15	1.1573	1.1577	1.151 - 1.1614
PCB-114L		37:06	36:56	-9	15	1.1739	1.1744	1.168 - 1.1780
PCB-105L		37:44	37:35	-9	15	1.1943	1.1949	1.188 - 1.1989
PCB-127L		39:13	39:03	-9		1.0000	1.0000	0.995 - 1.0053
PCB-126L		40:49	40:40	-9	15	1.2917	1.2927	1.285 - 1.2956
PCB-104	L	25:42	25:36	-6		1.0005	1.0010	0.998 - 1.0039
PCB-96		26:05	25:58	-6		1.0149	1.0155	1.013 - 1.0195
PCB-103		28:01	27:53	-7		1.0907	1.0906	1.087 - 1.0912
PCB-94		28:14	28:07	-7		1.0991	1.0996	1.097 - 1.1003
PCB-95		28:41	28:33	-7		1.1165	1.1166	1.113 - 1.1193
PCB-93/100		28:54	28:46	-7		1.1250	1.1251	1.120 - 1.1267
PCB-98/102		29:03	28:55	-7		1.1310	1.1311	1.127 - 1.1336
PCB-88/91		29:33	29:25	-7		1.1499	1.1502	1.143 - 1.1505
PCB-84		29:46	29:38	-7		1.1584	1.1592	1.157 - 1.1603
PCB-89		30:15	30:07	-7		1.1773	1.1777	1.175 - 1.1786
PCB-121		30:40	30:31	-8		1.1937	*1.1937	1.188 - 1.1922
PCB-92		31:02	30:54	-7		0.8564	0.8564	0.856 - 0.8589
PCB-90/101/113		31:37	31:28	-8		1.2306	1.2307	1.224 - 1.2307
PCB-83/99		32:12	32:03	-8		1.2535	*1.2537	1.245 - 1.2525
PCB-112		32:19	32:10	-8		1.2580	*1.2582	1.254 - 1.2574
PCB-86/87/97/109/119/125		32:41	32:33	-8		1.2724	1.2728	1.265 - 1.2756
PCB-85/116/117		33:25	33:16	-9		1.3008	*1.3008	1.293 - 1.3007
PCB-110/115		33:36	33:28	-7		1.3078	1.3088	1.303 - 1.3092
PCB-82		33:54	33:46	-7		1.3198	*1.3208	1.316 - 1.3194
PCB-111		34:19	34:09	-9		1.3357	*1.3358	1.329 - 1.3330
PCB-120		34:46	34:37	-8		1.3531	*1.3538	1.348 - 1.3514
PCB-108/124		35:54	35:45	-8		1.3975	*1.3985	1.390 - 1.3967
PCB-107		36:09	36:00	-9		1.4072	*1.4077	1.401 - 1.4049
PCB-123	T	36:16	36:07	-9		1.0007	1.0007	1.000 - 1.0023
PCB-106		36:22	36:13	-9		1.0036	1.0036	1.003 - 1.0057
PCB-118	T	36:35	36:26	-8		1.0004	1.0007	0.999 - 1.0019
PCB-122		36:56	36:47	-9		1.0101	1.0101	1.009 - 1.0117
PCB-114	T	37:07	36:57	-9		1.0004	1.0004	0.999 - 1.0018

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-105	T	37:46	37:37	-9		1.0007	1.0007	0.999 - 1.0018
PCB-127		39:14	39:05	-9		1.0397	1.0399	1.037 - 1.0399
PCB-126	T/L	40:51	40:41	-9		1.0006	1.0006	1.000 - 1.0016
PCB-155L		31:22	31:14	-8	15	0.7904	0.7899	0.787 - 0.7951
PCB-153L		38:27	38:17	-10		0.9005	0.9001	0.899 - 0.9028
PCB-138L		39:41	39:32	-9		1.0000	1.0000	0.979 - 1.0208
PCB-167L		42:42	42:32	-10	15	1.0759	1.0758	1.071 - 1.0792
PCB-156L/157L		43:51	43:40	-10	15	1.1050	1.1048	1.100 - 1.1084
PCB-169L		47:05	46:54	-10	15	1.1862	*1.1866	1.184 - 1.1864
PCB-155	L	31:24	31:15	-8		1.0008	1.0008	0.998 - 1.0031
PCB-152		31:35	31:27	-8		1.0069	1.0070	1.006 - 1.0096
PCB-150		31:45	31:37	-8		1.0122	1.0123	1.011 - 1.0144
PCB-136		32:07	31:59	-7		1.0236	1.0242	1.024 - 1.0268
PCB-145		32:24	32:16	-8		1.0330	1.0332	1.033 - 1.0358
PCB-148		33:56	33:47	-8		1.0816	1.0820	1.080 - 1.0830
PCB-135/151		34:31	34:22	-9		1.1004	1.1004	1.099 - 1.1038
PCB-154		34:46	34:38	-8		1.1085	1.1090	1.106 - 1.1107
PCB-144		35:05	34:56	-8		1.1183	1.1189	1.117 - 1.1199
PCB-147/149		35:27	35:18	-9		1.1301	1.1304	1.127 - 1.1326
PCB-134/143		35:45	35:36	-8		1.1394	1.1401	1.136 - 1.1409
PCB-139/140		36:03	35:53	-9		1.1490	1.1494	1.146 - 1.1515
PCB-131		36:15	36:06	-8		1.1553	1.1561	1.154 - 1.1571
PCB-142		36:23	36:14	-9		1.1599	1.1603	1.159 - 1.1621
PCB-132		36:42	36:34	-8		1.1700	1.1708	1.168 - 1.1728
PCB-133		37:13	37:04	-9		1.1863	1.1868	1.184 - 1.1872
PCB-165		37:37	37:27	-9		0.8808	0.8806	0.880 - 0.8825
PCB-146		37:52	37:42	-9		0.8867	0.8865	0.886 - 0.8882
PCB-161		37:59	37:50	-9		0.8897	0.8896	0.889 - 0.8914
PCB-153/168		38:29	38:20	-9		0.9014	0.9014	0.900 - 0.9040
PCB-141		38:40	38:30	-9		0.9054	0.9054	0.905 - 0.9075
PCB-130		39:04	38:55	-9		0.9150	0.9150	0.915 - 0.9172
PCB-137		39:18	39:08	-9		0.9202	0.9202	0.920 - 0.9224
PCB-164		39:25	39:15	-9		0.9230	0.9230	0.923 - 0.9252
PCB-129/138/160/163		39:44	39:34	-9		0.9304	0.9304	0.930 - 0.9349
PCB-158		40:06	39:56	-10		0.9393	0.9391	0.939 - 0.9409
PCB-128/166		40:57	40:47	-10		0.9590	0.9589	0.958 - 0.9617
PCB-159		41:58	41:48	-10		0.9828	0.9827	0.982 - 0.9839
PCB-162		42:15	42:05	-10		0.9895	0.9895	0.988 - 0.9907
PCB-167	T	42:43	42:33	-10		1.0006	1.0006	0.999 - 1.0016
PCB-156/157	T	43:53	43:42	-10		1.0006	1.0006	0.999 - 1.0025
PCB-169	T/L	47:06	46:55	-10		1.0006	1.0003	0.999 - 1.0015
PCB-188L		37:06	36:56	-9	15	0.8198	0.8197	0.817 - 0.8243
PCB-178L		40:09	40:00	-9		0.8875	0.8874	0.884 - 0.8916
PCB-180L		45:15	45:04	-10		1.0000	1.0000	0.996 - 1.0037
PCB-170L		46:30	46:19	-10	15	1.0276	1.0277	1.024 - 1.0317
PCB-189L		49:37	49:25	-11	15	1.0965	1.0967	1.093 - 1.1000

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-188	L	37:07	36:58	-9		1.0007	1.0007	1.000 - 1.0022
PCB-179		37:27	37:19	-8		1.0096	1.0100	1.009 - 1.0115
PCB-184		37:59	37:49	-10		1.0241	1.0239	1.023 - 1.0254
PCB-176		38:20	38:11	-9		1.0333	1.0335	1.033 - 1.0351
PCB-186		38:48	38:38	-9		1.0457	1.0459	1.045 - 1.0476
PCB-178		40:10	40:01	-9		1.0830	1.0833	1.081 - 1.0837
PCB-175		40:48	40:39	-9		1.1000	1.1004	1.098 - 1.1008
PCB-187		41:05	40:55	-10		1.1074	1.1075	1.106 - 1.1082
PCB-182		41:17	41:07	-9		1.1127	1.1132	1.111 - 1.1137
PCB-183/185		41:42	41:32	-10		1.1241	1.1243	1.123 - 1.1260
PCB-174		41:56	41:46	-10		1.1305	1.1307	1.129 - 1.1313
PCB-177		42:22	42:12	-10		1.1422	1.1424	1.140 - 1.1430
PCB-181		42:45	42:35	-10		1.1524	1.1527	1.151 - 1.1535
PCB-171/173		42:58	42:48	-10		1.1585	1.1588	1.156 - 1.1602
PCB-172		44:37	44:26	-10		0.8993	0.8990	0.899 - 0.9008
PCB-192		44:54	44:43	-10		0.9049	0.9046	0.904 - 0.9060
PCB-180/193		45:14	45:03	-10		0.9117	0.9116	0.911 - 0.9130
PCB-191		45:37	45:27	-10		0.9194	0.9195	0.919 - 0.9209
PCB-170		46:31	46:20	-10		0.9377	0.9376	0.937 - 0.9392
PCB-190		47:02	46:51	-10		0.9481	0.9480	0.948 - 0.9496
PCB-189	T/L	49:38	49:27	-10		1.0003	1.0005	0.999 - 1.0013
PCB-202L		42:28	42:18	-10	15	0.8211	0.8206	0.819 - 0.8249
PCB-194L		51:43	51:32	-10		1.0000	1.0000	0.996 - 1.0040
PCB-205L		52:11	52:00	-11	15	1.0092	1.0089	1.004 - 1.0138
PCB-202	L	42:29	42:19	-10		1.0006	1.0006	0.999 - 1.0027
PCB-201		43:24	43:14	-10		1.0223	1.0224	1.020 - 1.0237
PCB-204		44:05	43:55	-10		1.0381	1.0382	1.036 - 1.0388
PCB-197		44:19	44:08	-10		1.0437	1.0435	1.042 - 1.0445
PCB-200		44:25	44:15	-10		1.0462	1.0463	1.045 - 1.0473
PCB-198/199		47:12	47:02	-10		1.1115	1.1119	1.109 - 1.1132
PCB-196		47:53	47:42	-10		0.9175	0.9173	0.917 - 0.9189
PCB-203		48:05	47:54	-10		0.9212	0.9211	0.921 - 0.9226
PCB-195		49:24	49:12	-11		0.9465	0.9463	0.946 - 0.9481
PCB-194		51:44	51:34	-10		0.9914	0.9916	0.991 - 0.9926
PCB-205	L	52:13	52:01	-11		1.0005	1.0005	0.999 - 1.0013
PCB-208L		49:08	48:58	-10	15	0.9503	0.9501	0.947 - 0.9534
PCB-206L		53:56	53:45	-11	15	1.0431	1.0430	1.038 - 1.0472
PCB-208	L	49:10	48:59	-11		1.0005	1.0003	0.999 - 1.0013
PCB-207		50:05	49:55	-10		1.0193	1.0193	1.019 - 1.0205
PCB-206	L	53:58	53:47	-11		1.0005	1.0005	1.000 - 1.0015
PCB-209L		55:35	55:22	-12	15	1.0748	1.0743	1.069 - 1.0784
DCB Decachlorobiphenyl	L	55:35	55:23	-12		1.0002	1.0005	0.999 - 1.0012

Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

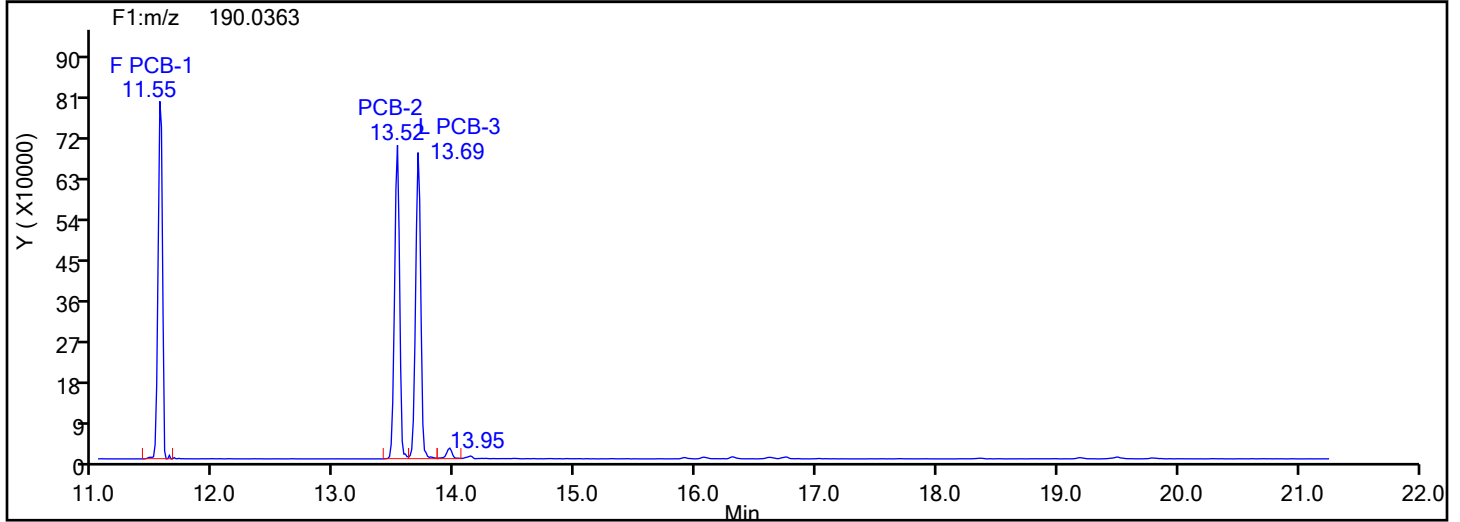
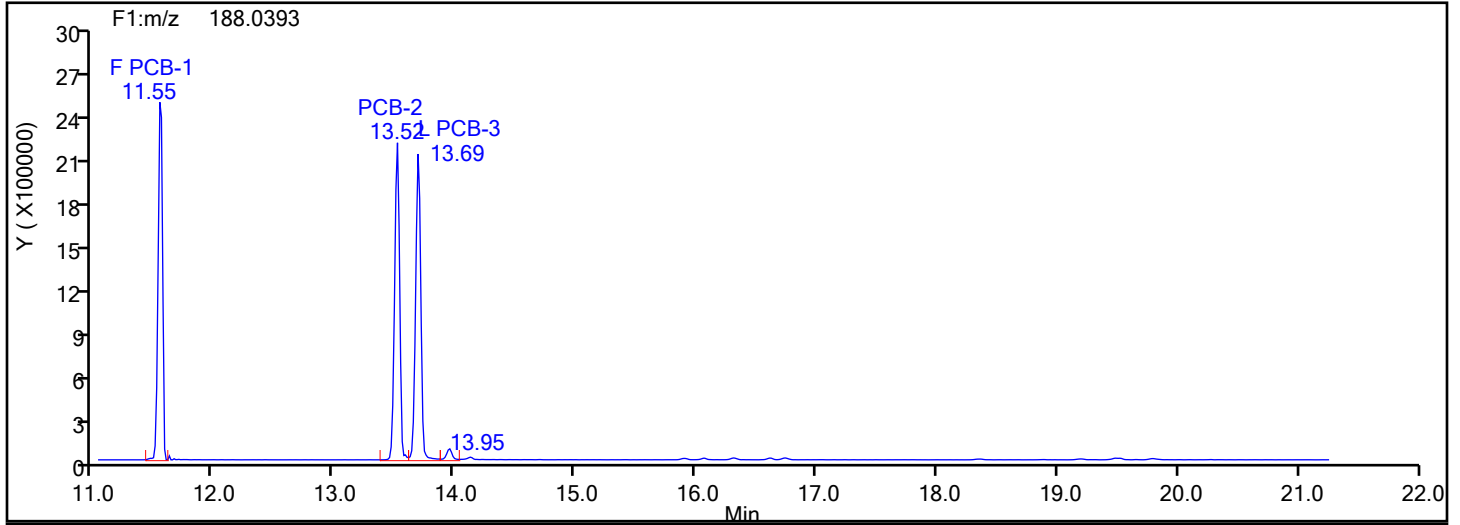
Worklist#: 87571

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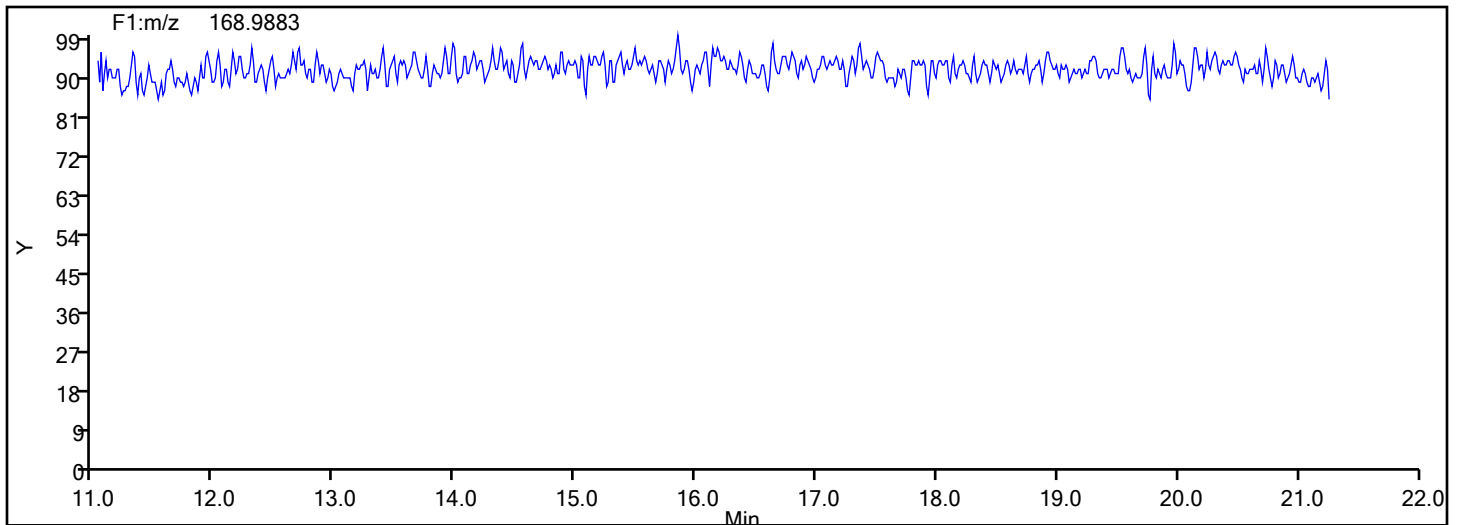
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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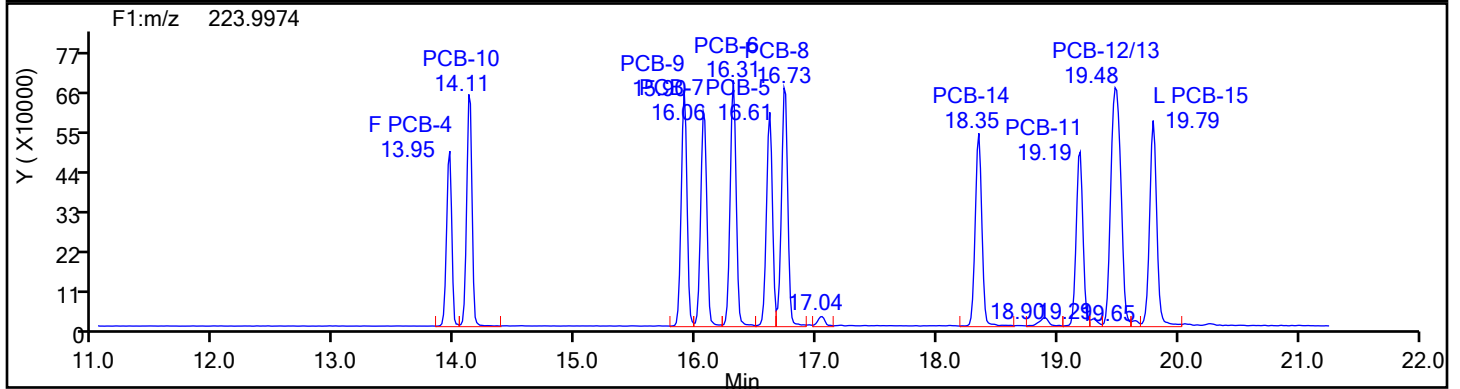
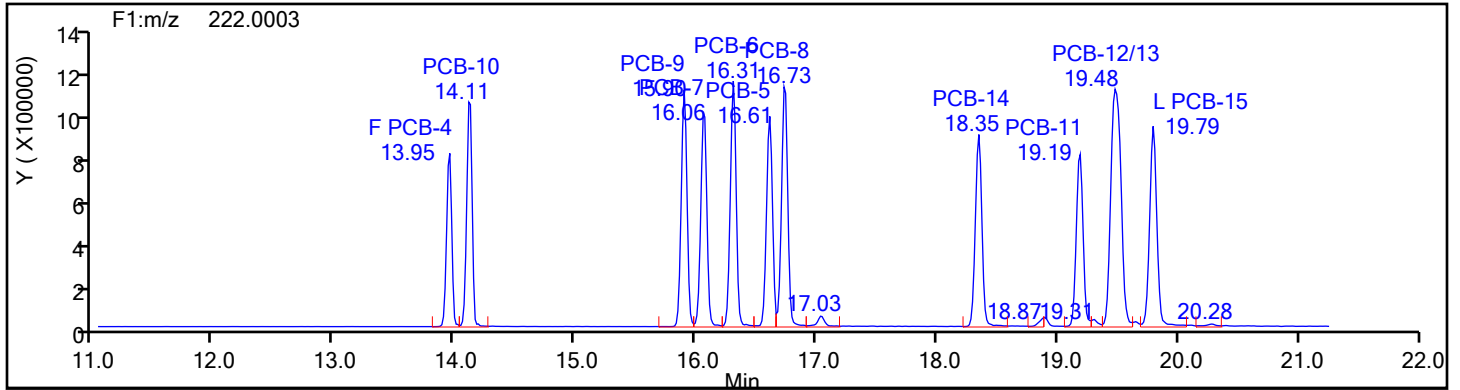
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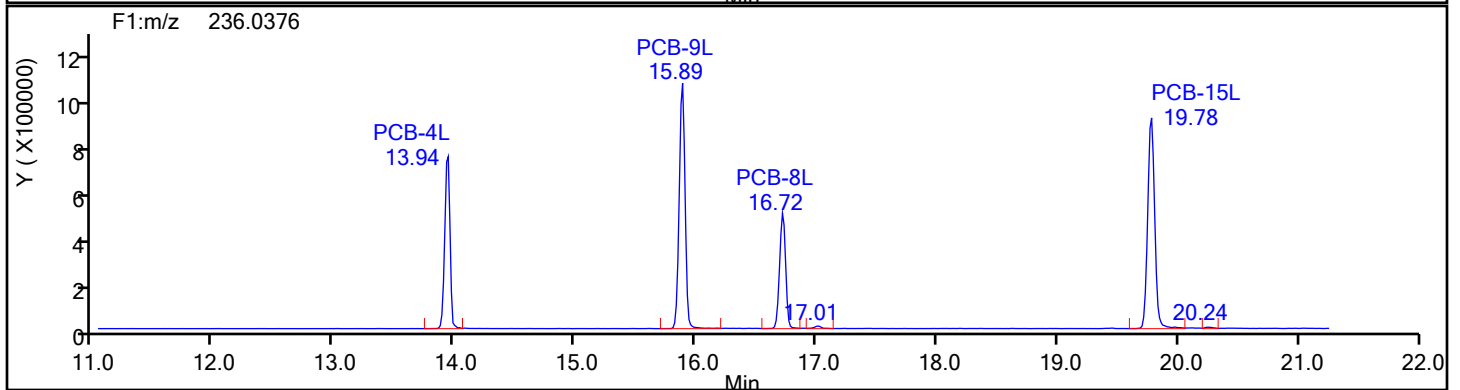
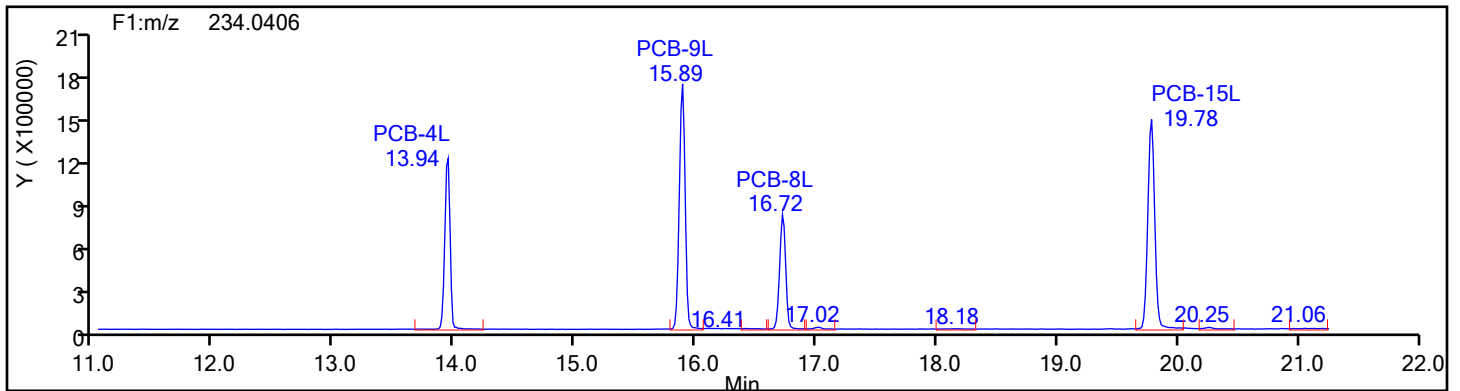
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

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Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

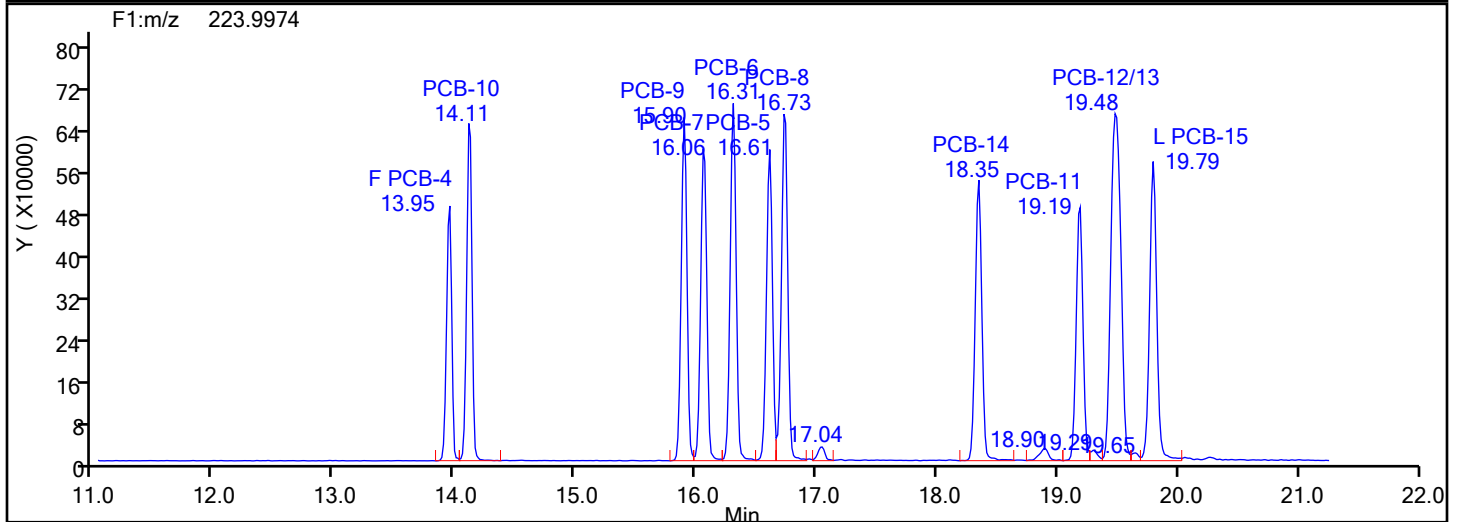
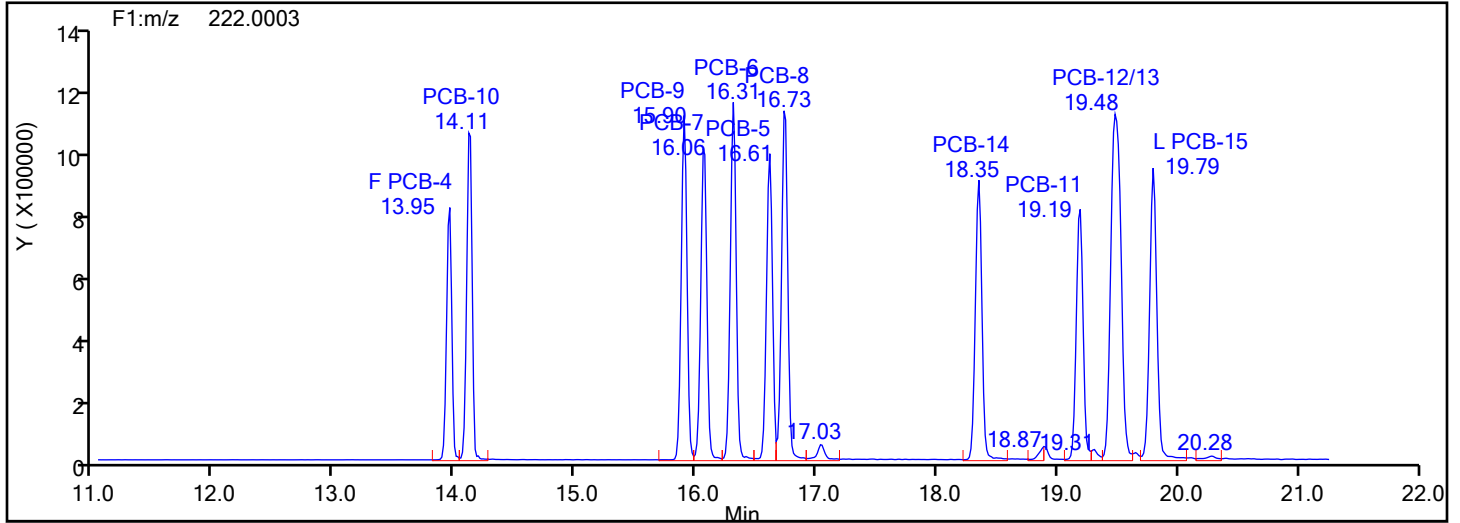
Worklist#: 87571

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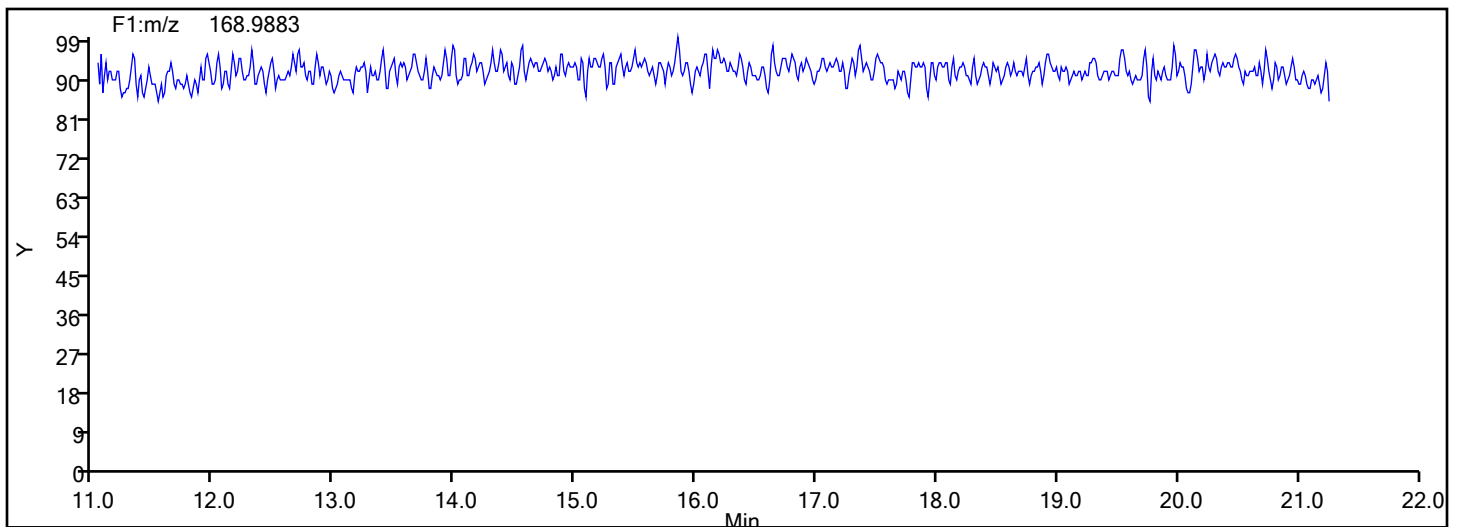
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

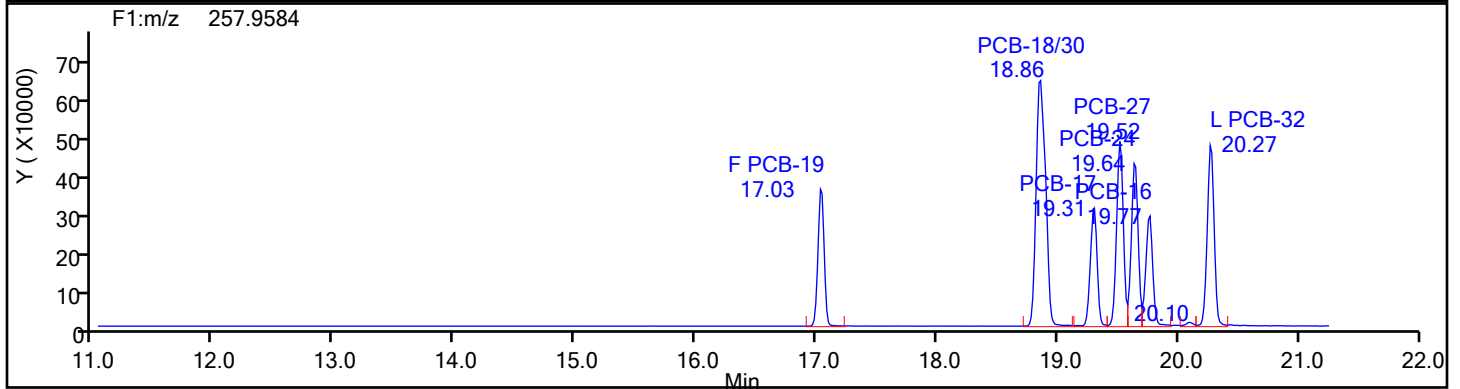
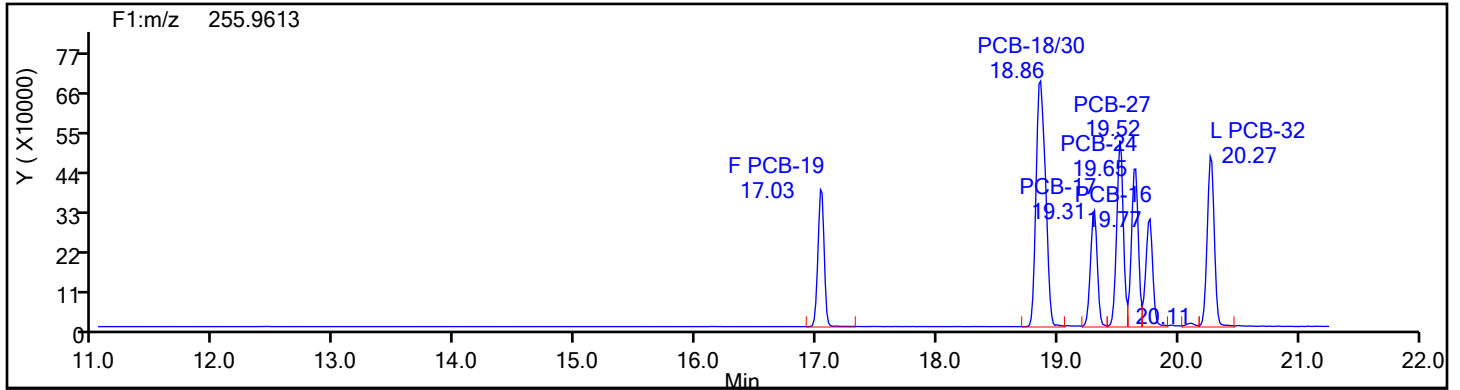
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Sample Line#: 1

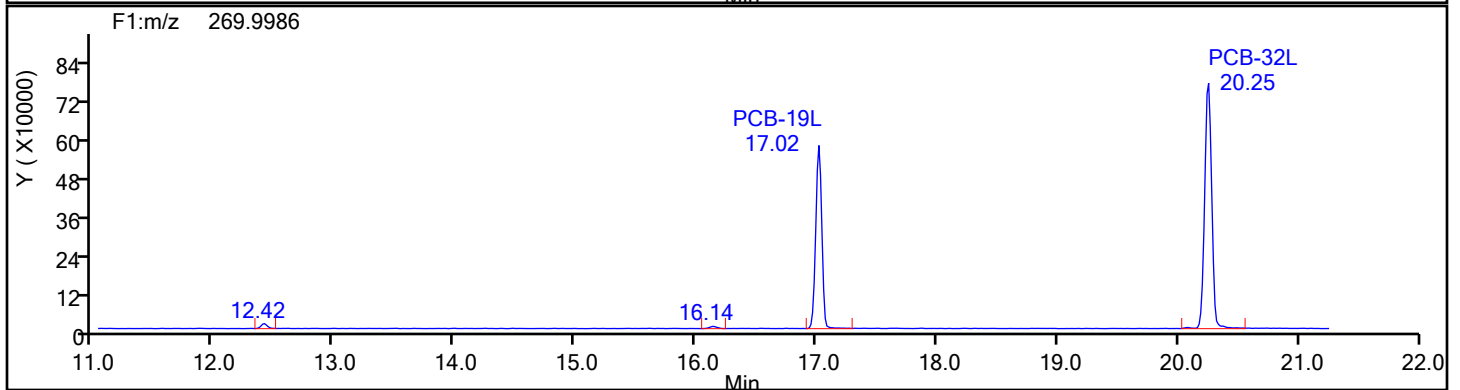
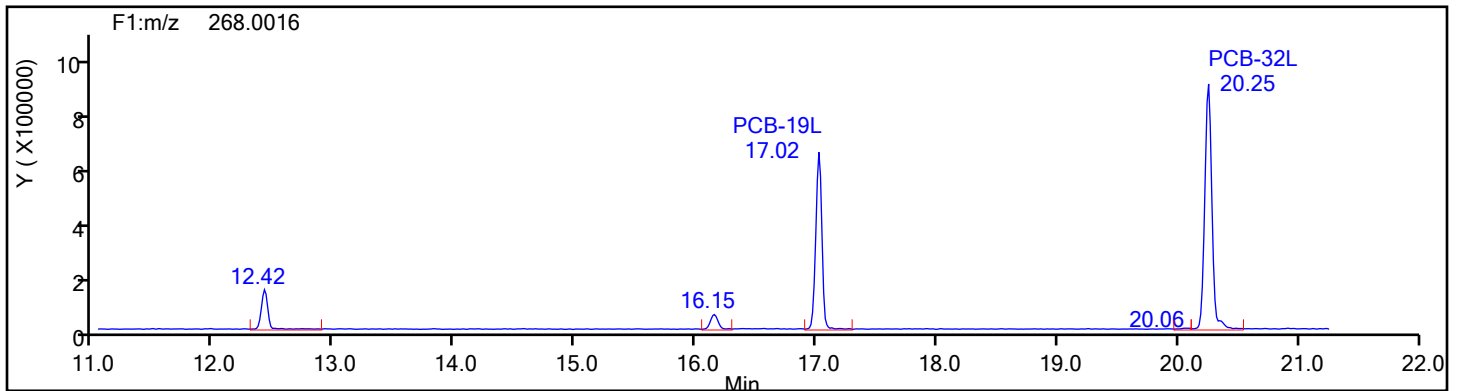
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

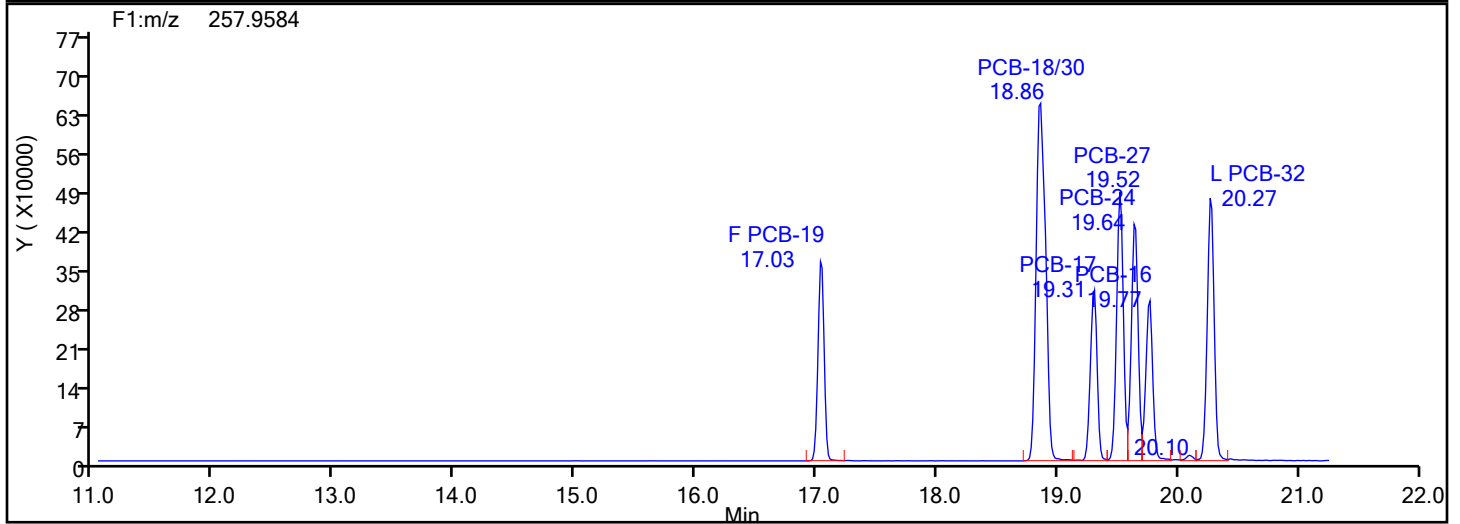
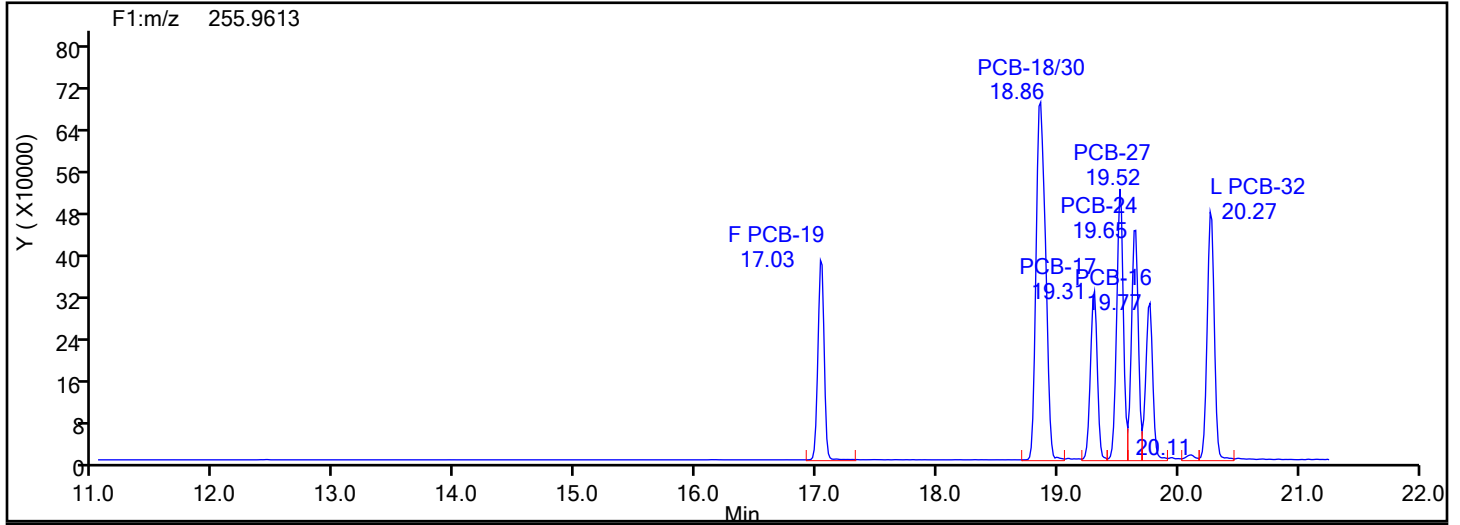
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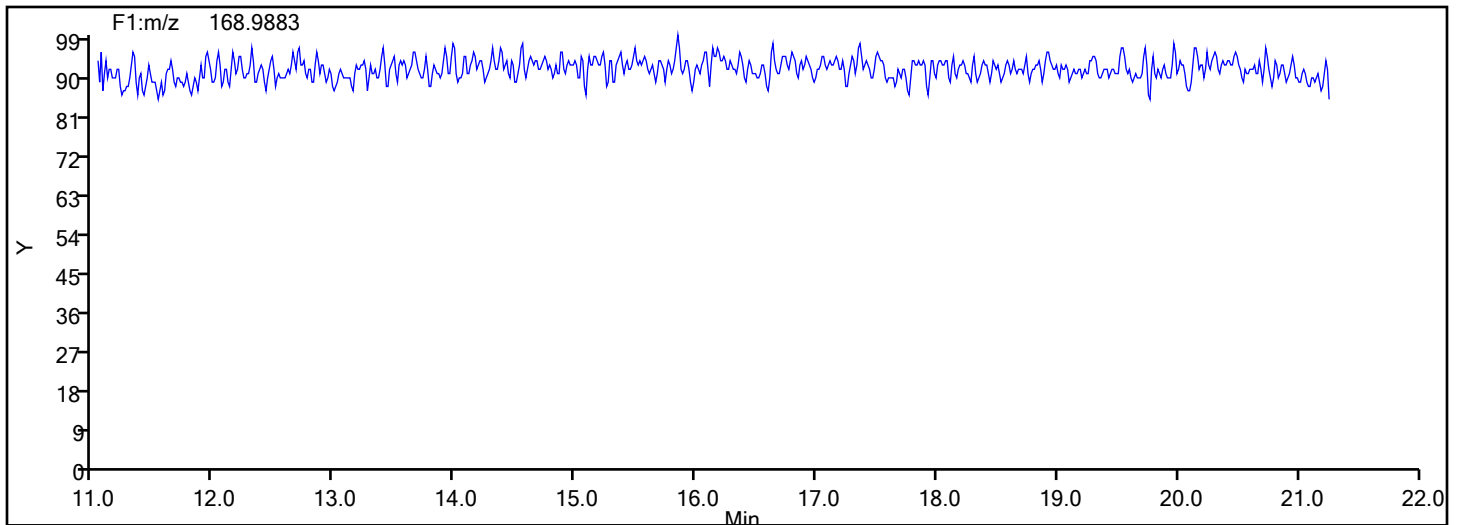
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

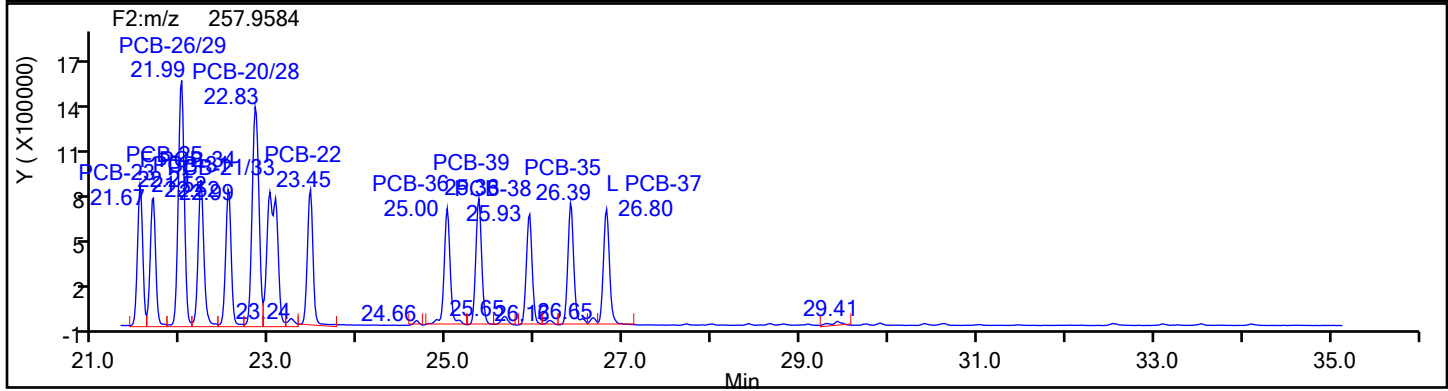
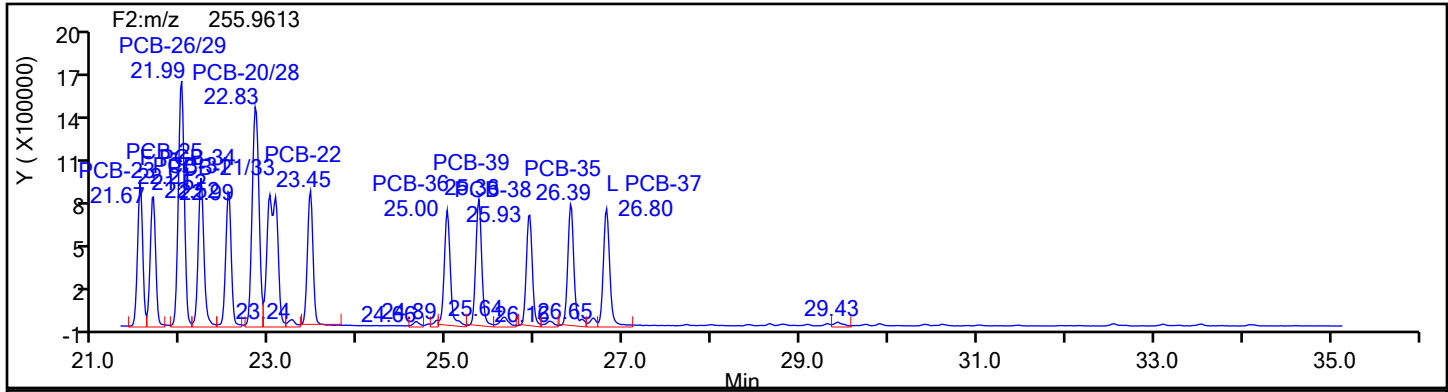
Worklist#: 87571

Sample Line#: 1

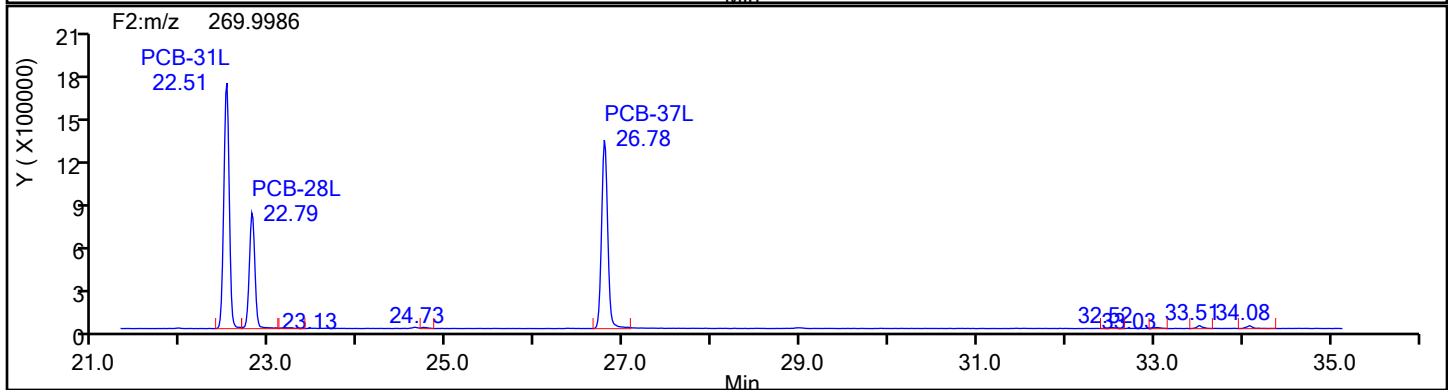
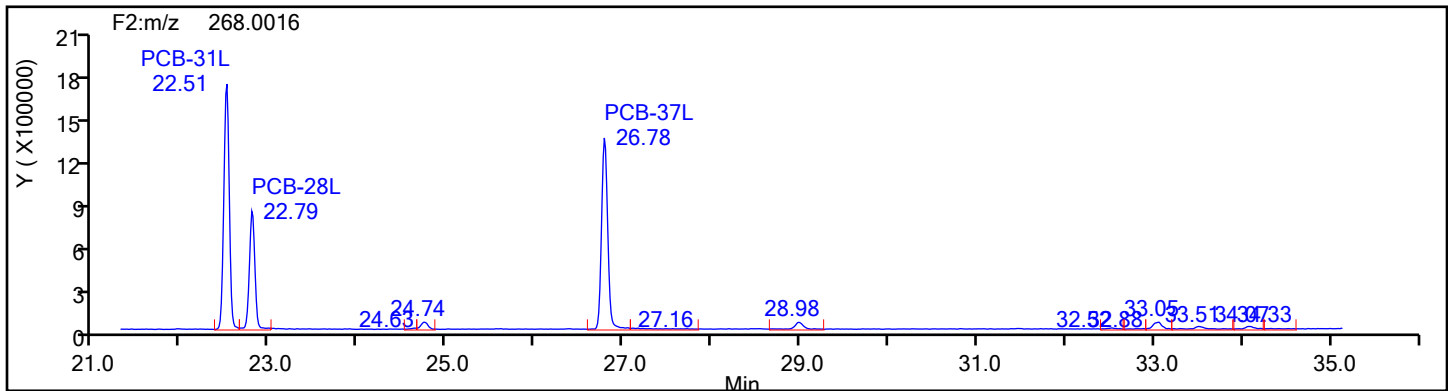
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

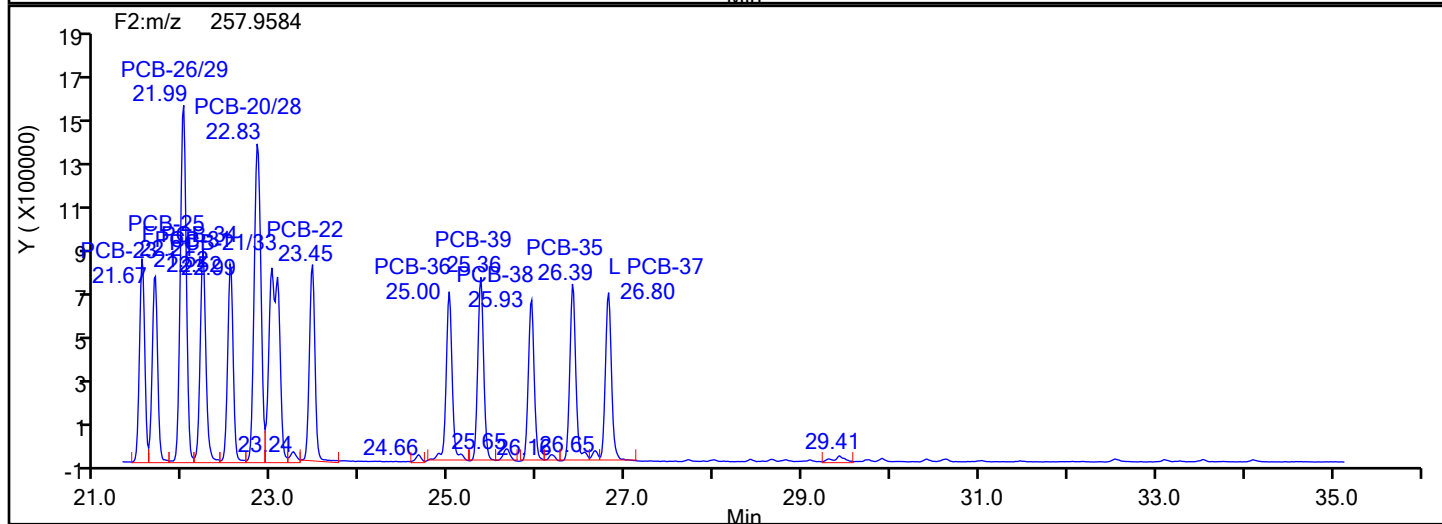
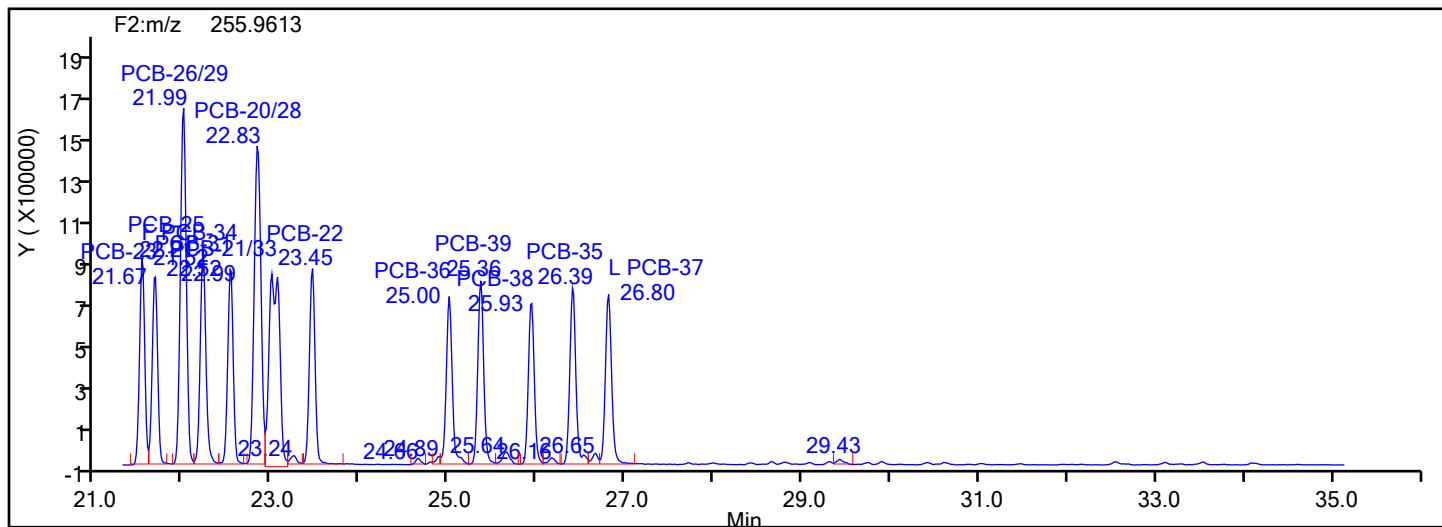
Limit Group: HR - EPA 23 PCB ICAL

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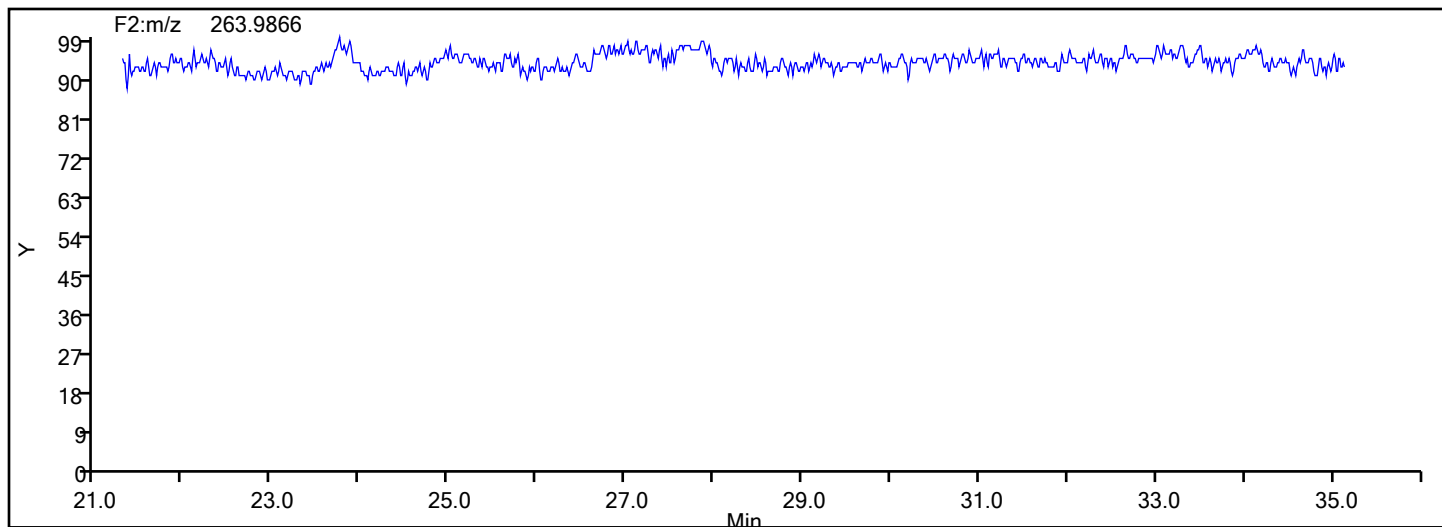
Sample Line#: 1

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

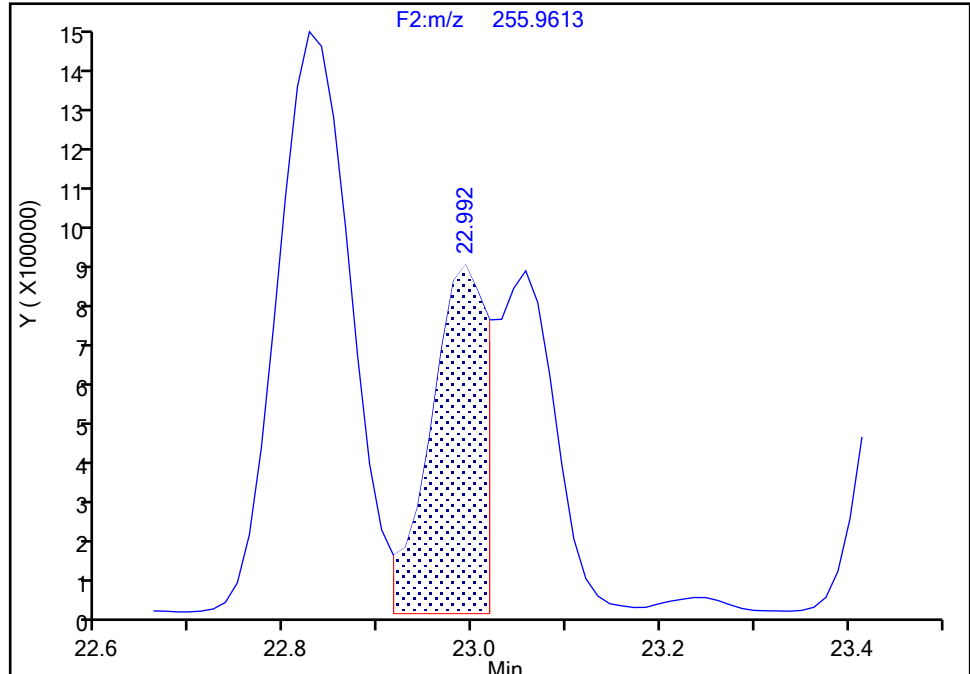
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Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

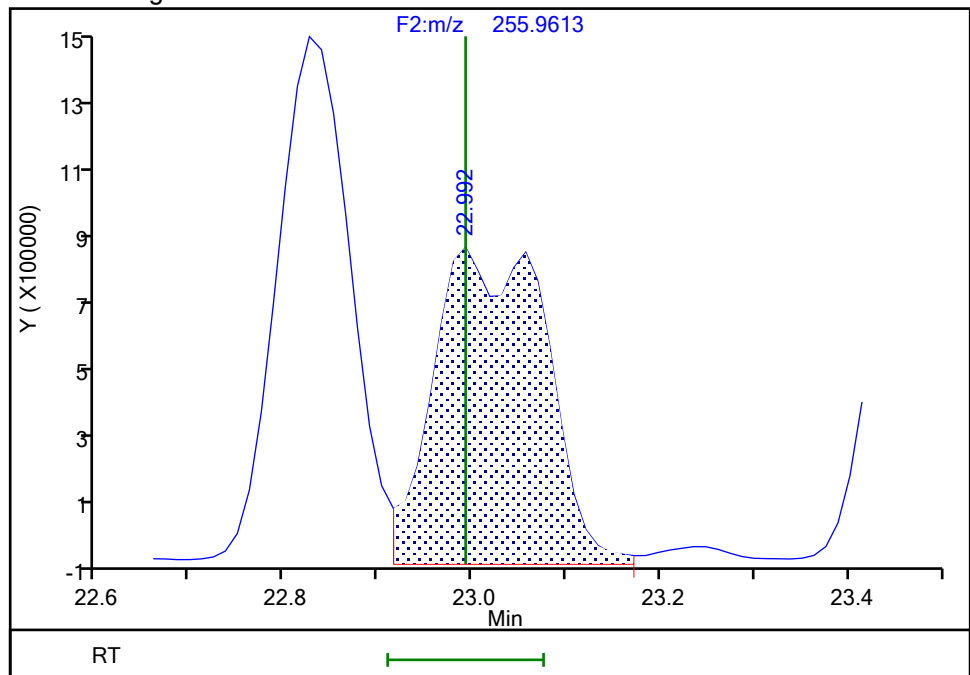
RT: 22.99
Area: 3378636
Amount: 52.176069
Amount Units: pg/ul

Processing Integration Results



RT: 22.99
Area: 7129870
Amount: 101.1804
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:40:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

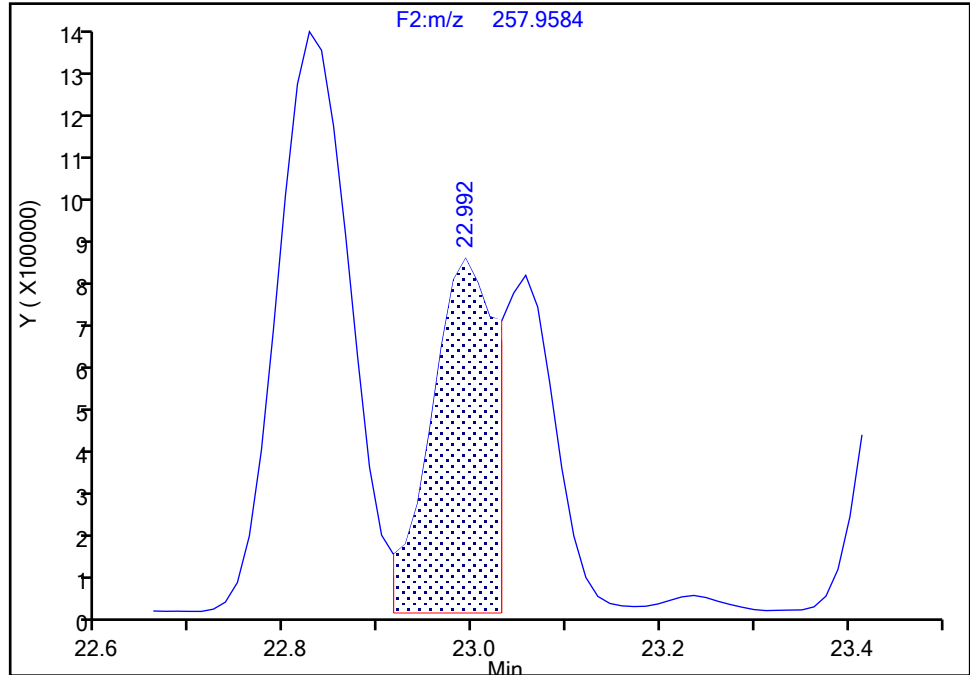
Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

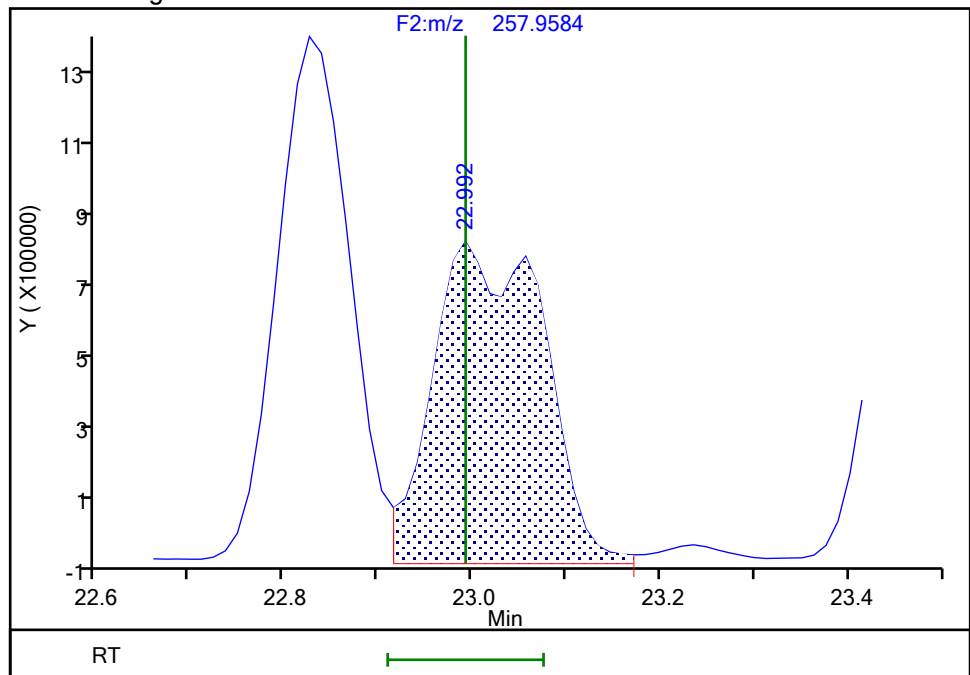
RT: 22.99
Area: 3844039
Amount: 52.176069
Amount Units: pg/ul

Processing Integration Results



RT: 22.99
Area: 6876418
Amount: 101.1804
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:41:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

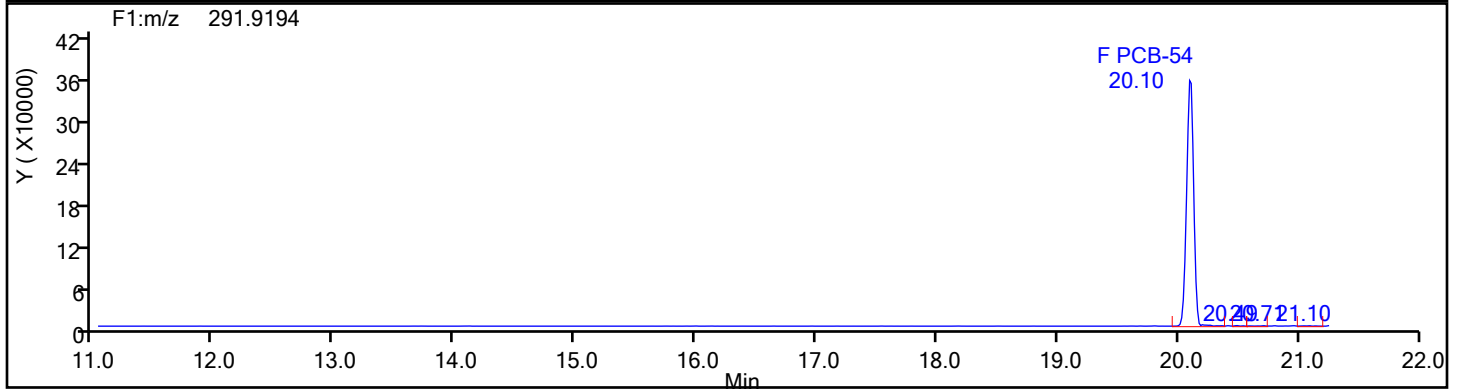
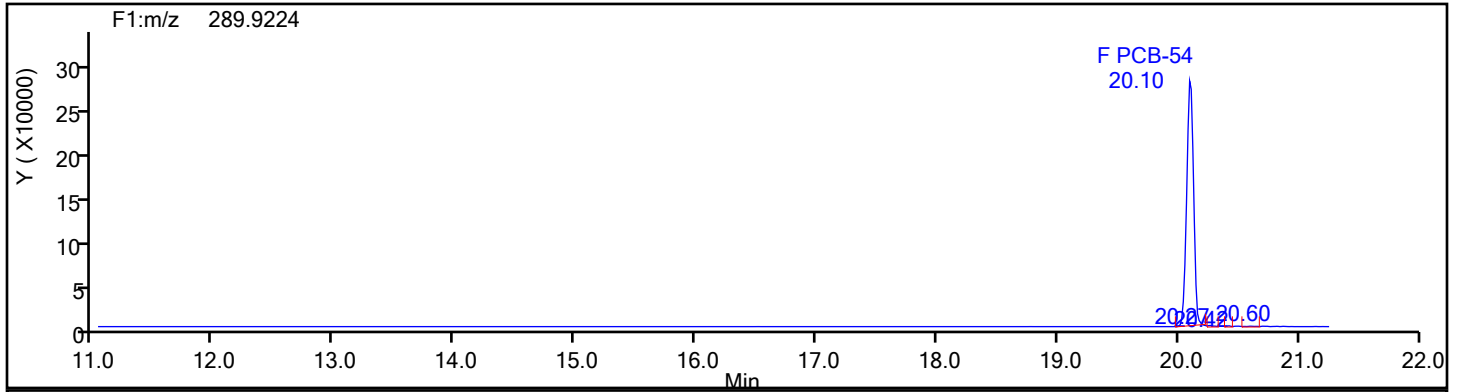
Worklist#: 87571

Sample Line#: 1

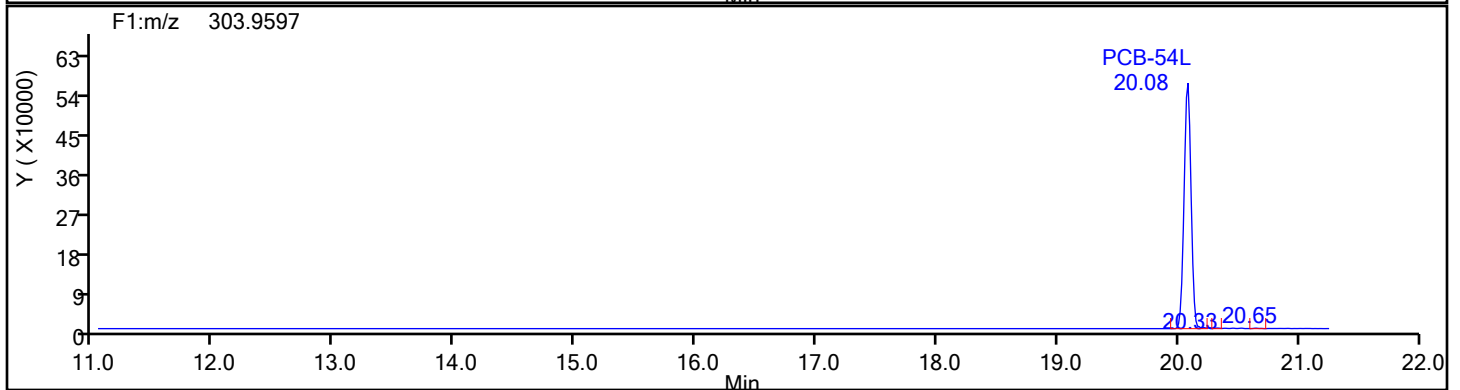
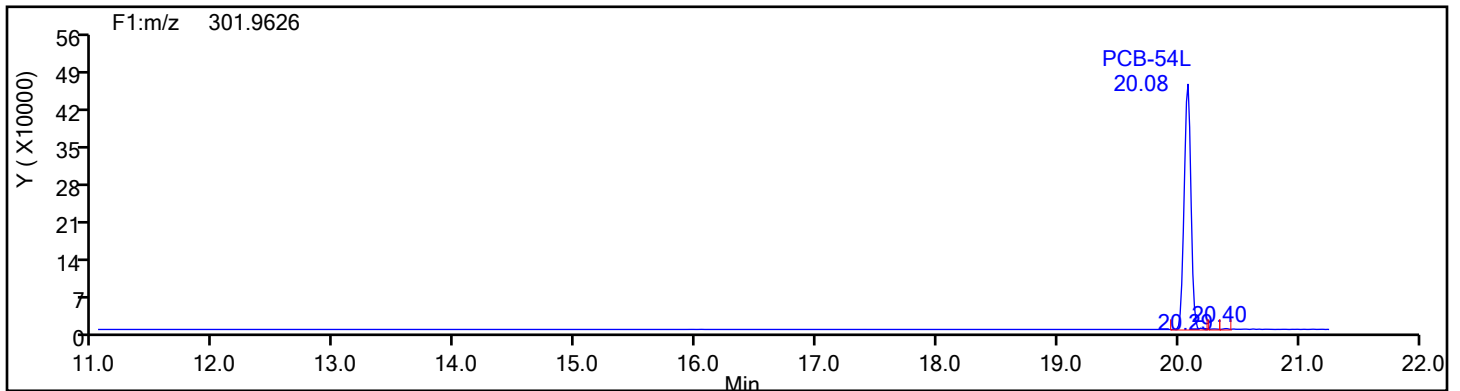
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

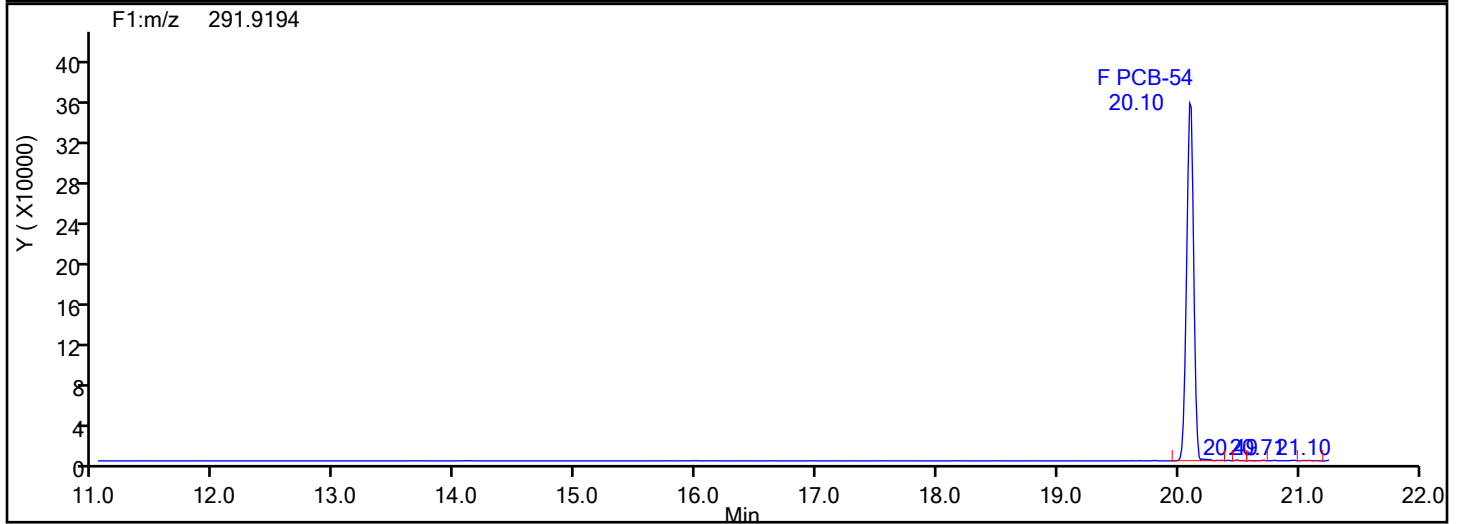
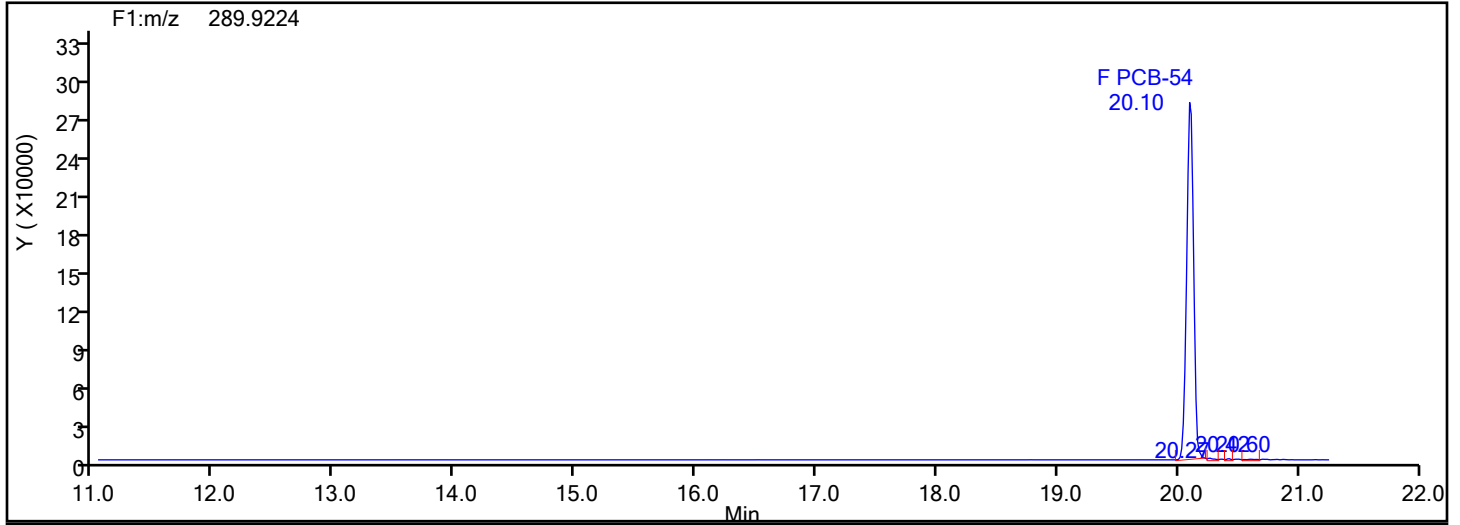
Worklist#: 87571

Sample Line#: 1

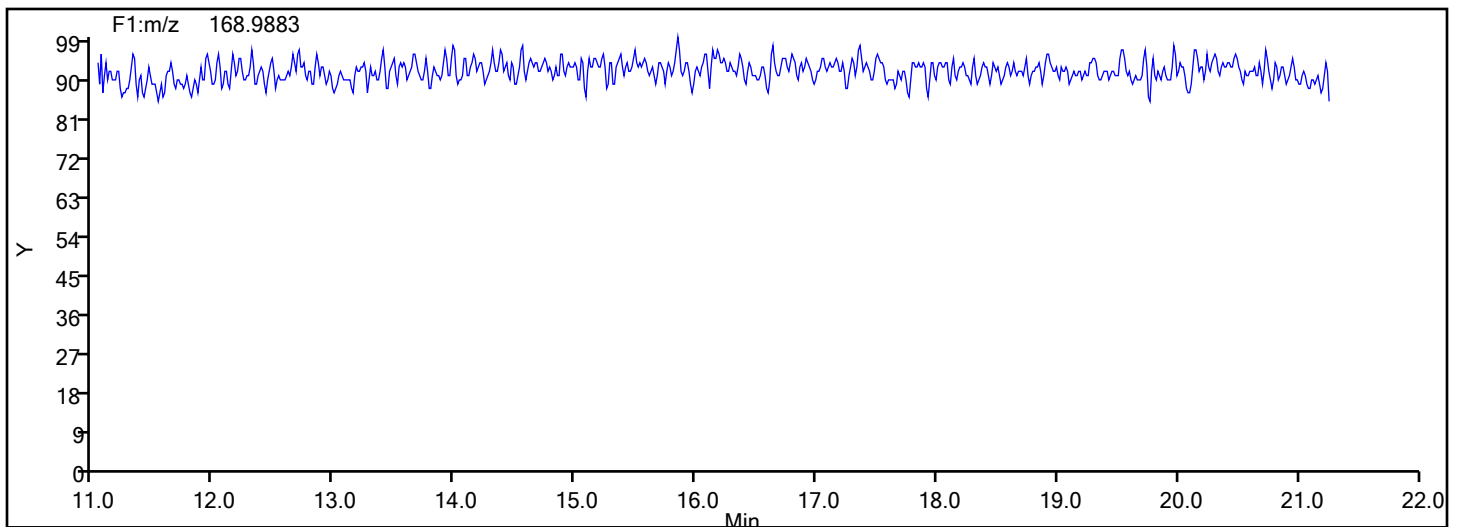
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method:	PCBs	D2D
---------	------	-----

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

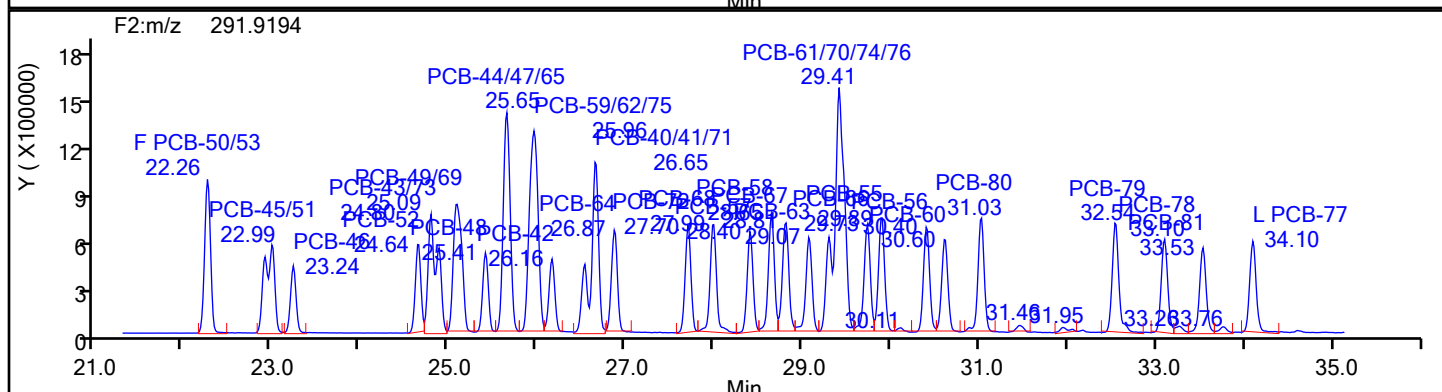
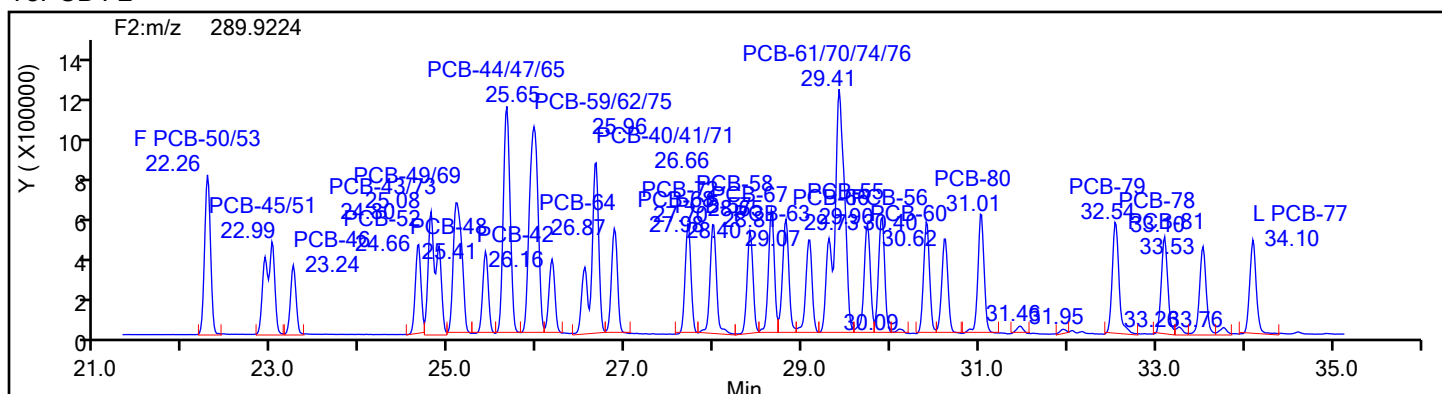
Worklist#: 87571

Sample Line#: 1

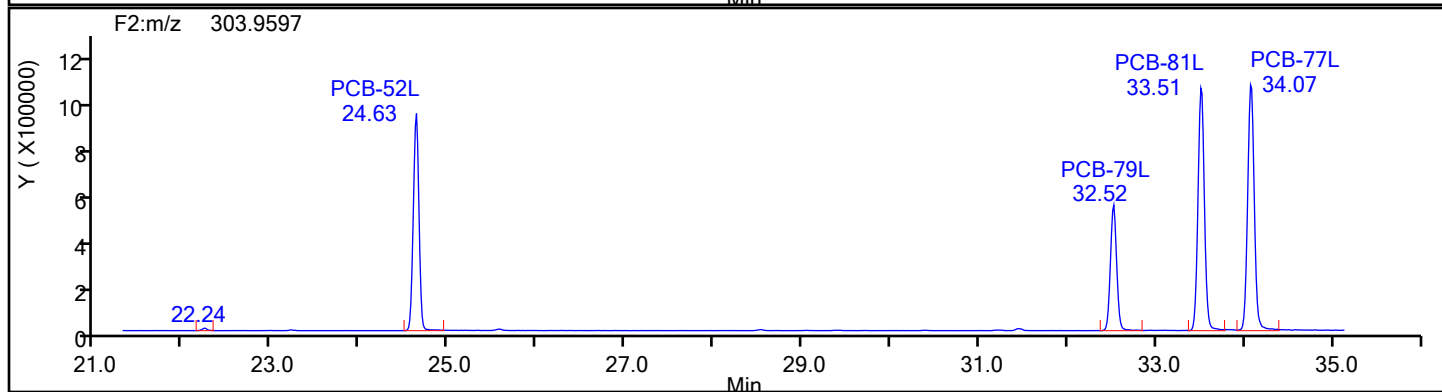
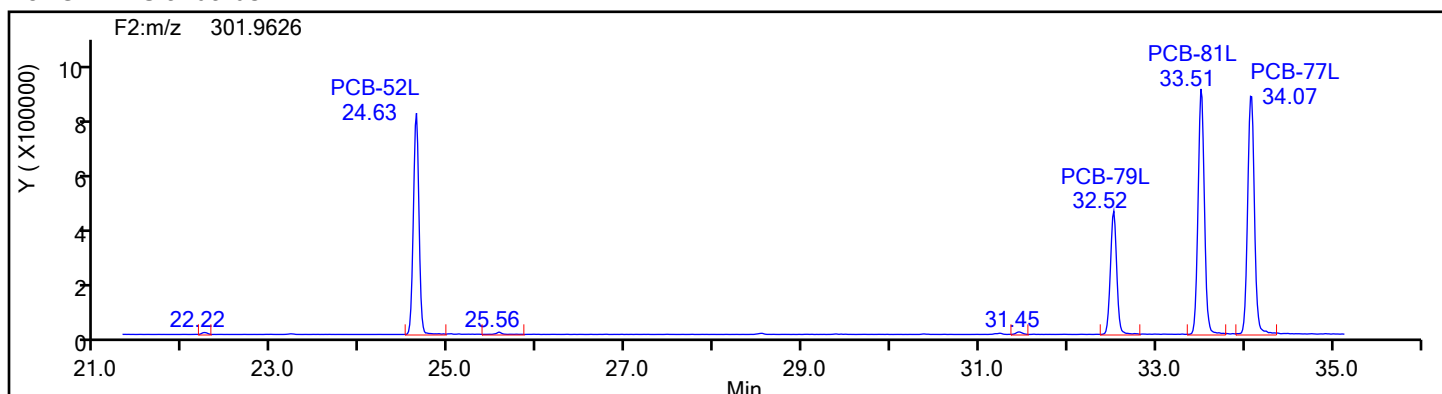
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

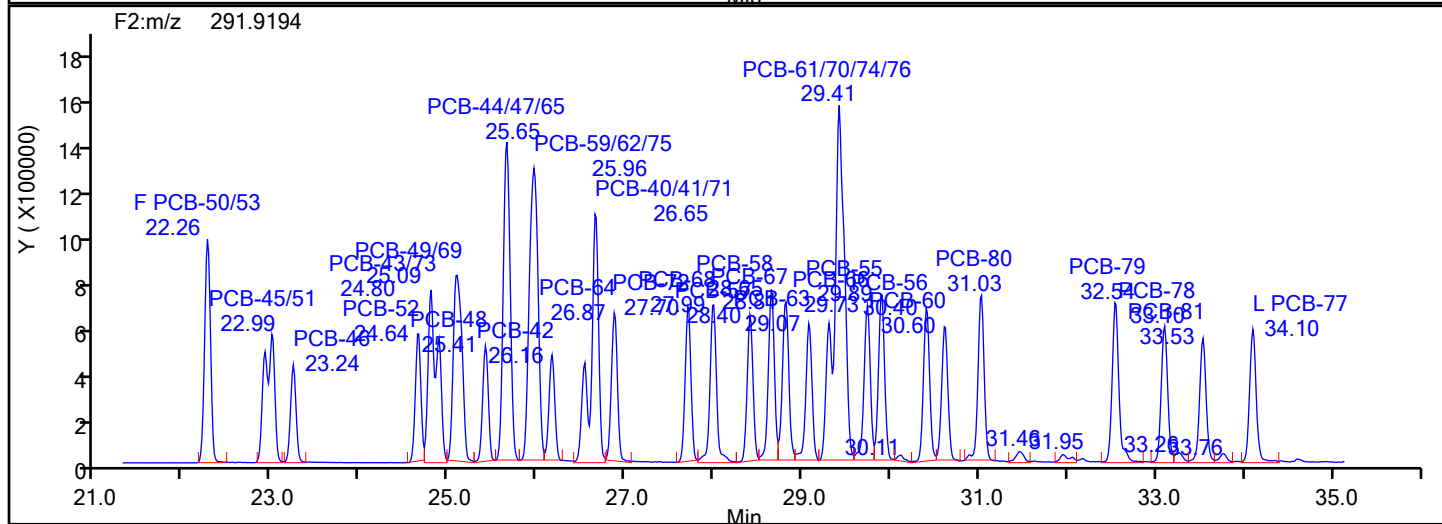
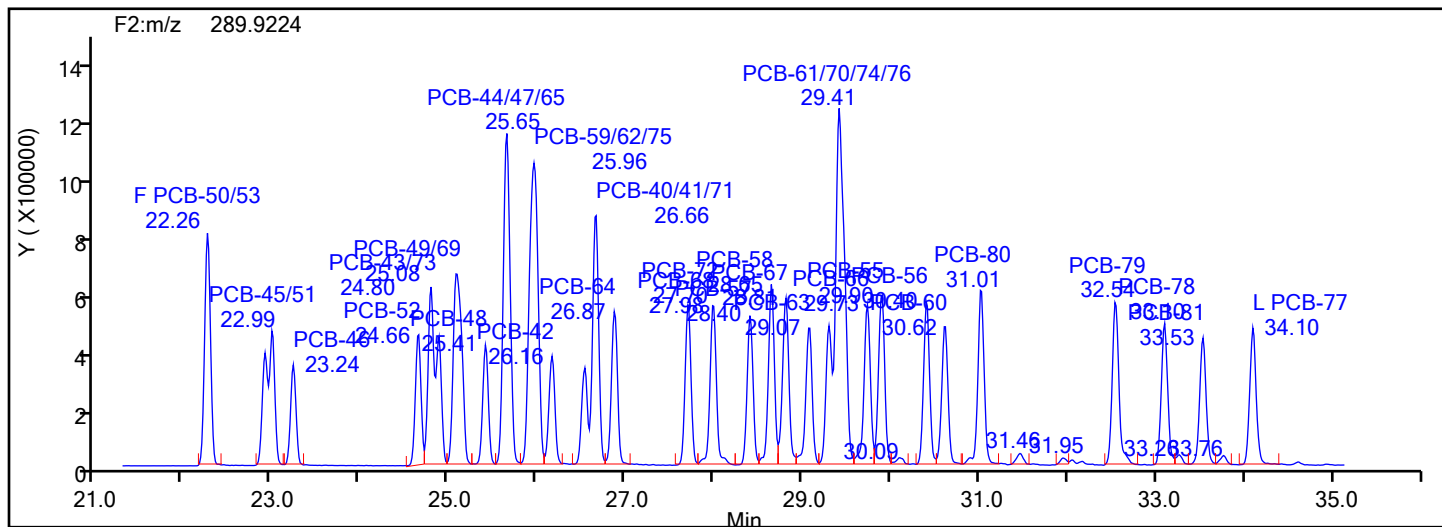
Limit Group: HR - EPA 23 PCB ICAL

Client ID:

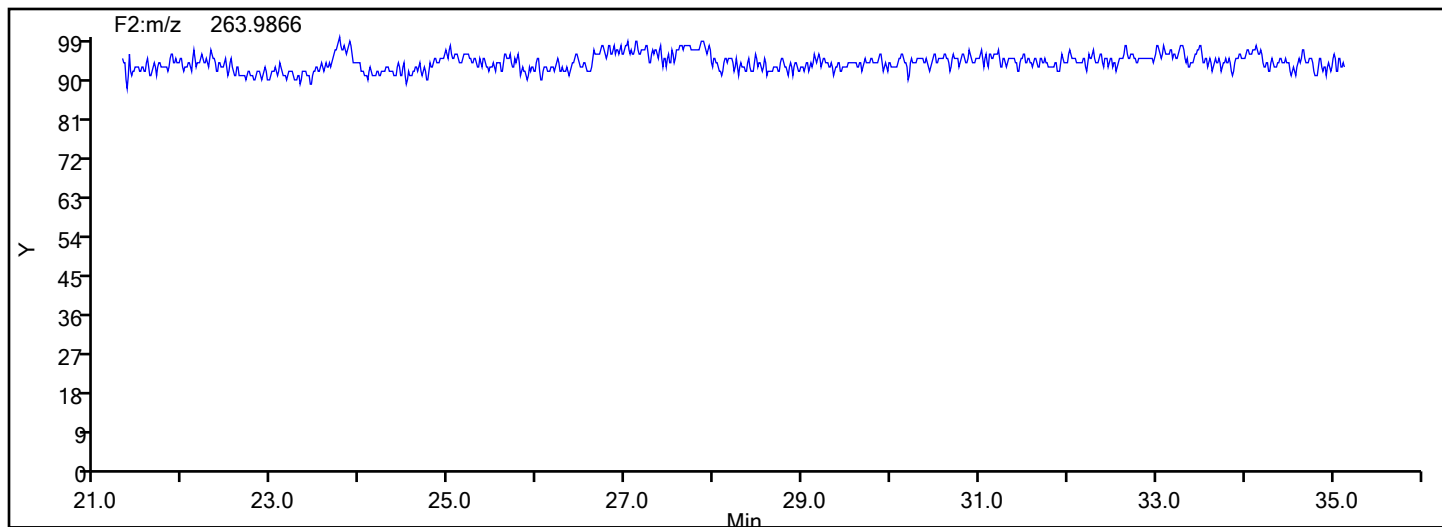
Sample Line#: 1

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

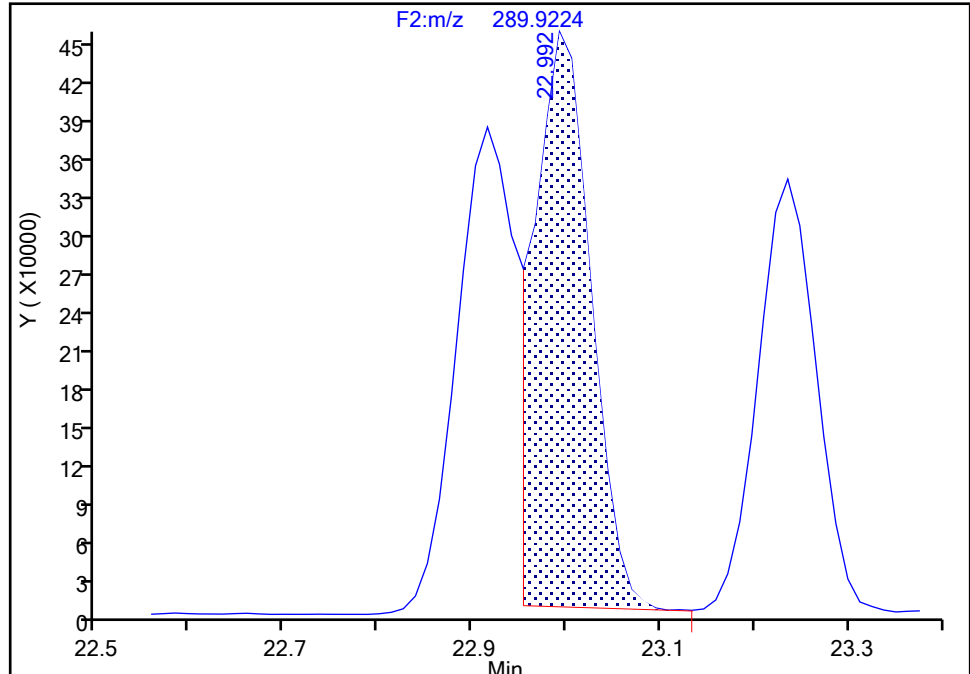
Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

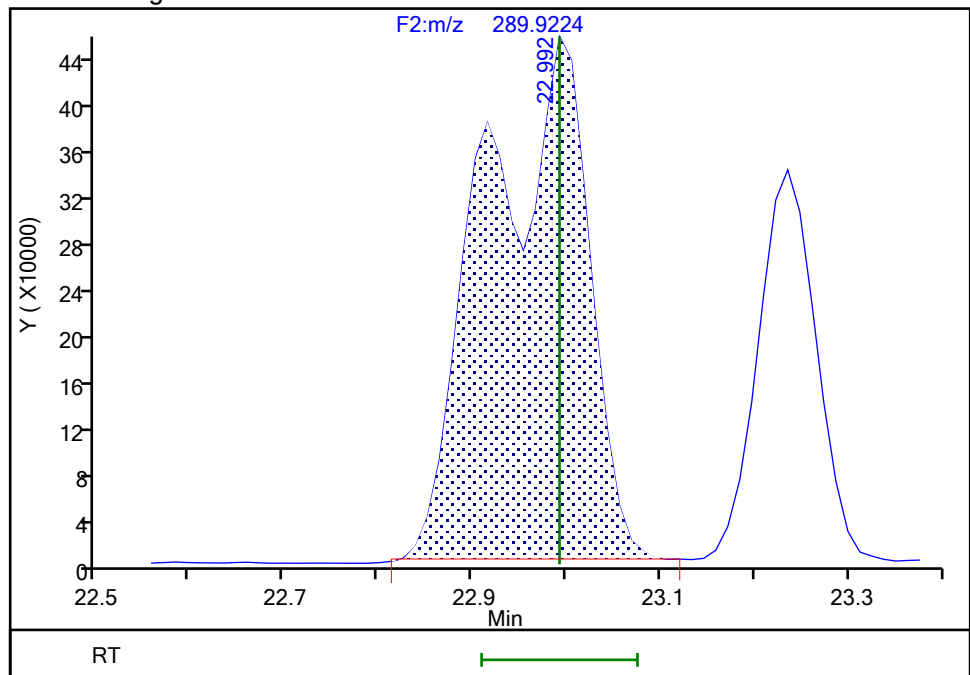
RT: 22.99
Area: 1842271
Amount: 50.572021
Amount Units: pg/ul

Processing Integration Results



RT: 22.99
Area: 3459572
Amount: 95.296968
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:43:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

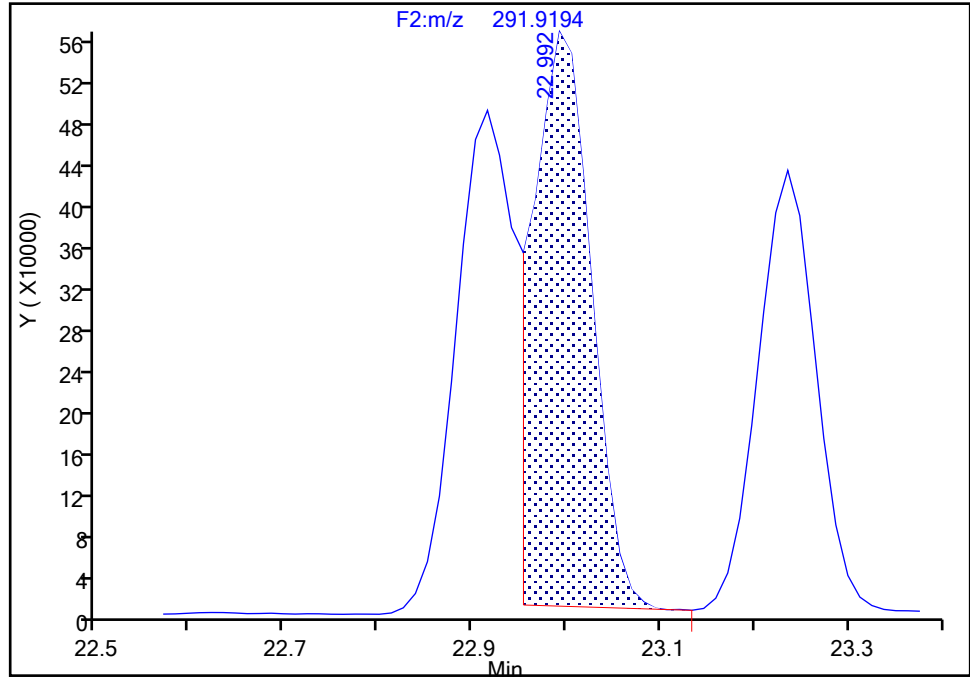
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Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

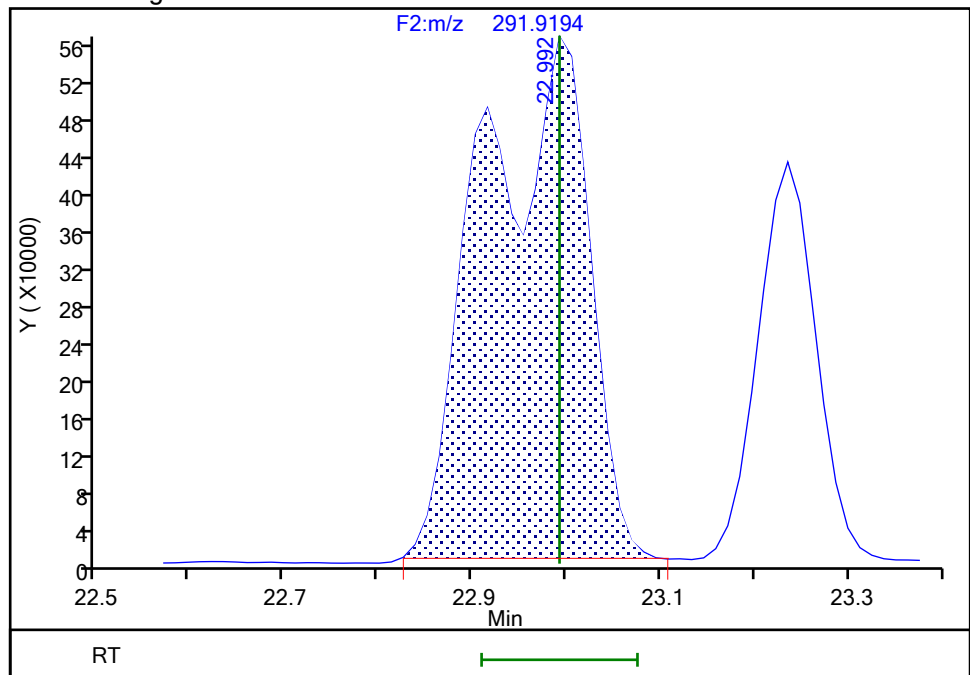
RT: 22.99
Area: 2330893
Amount: 50.572021
Amount Units: pg/ul

Processing Integration Results



RT: 22.99
Area: 4404260
Amount: 95.296968
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:43:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

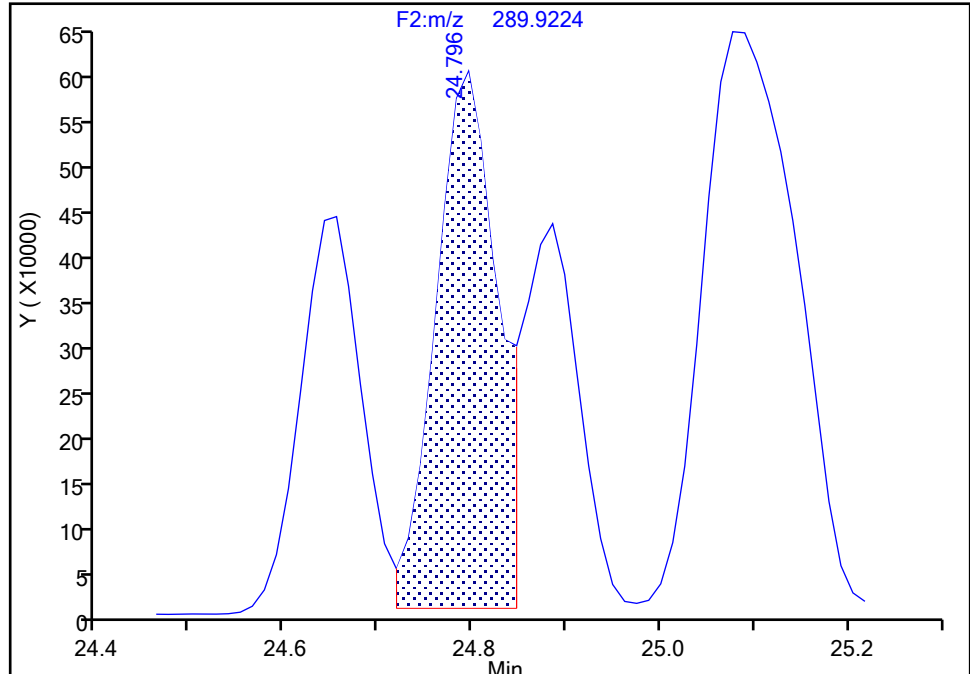
Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

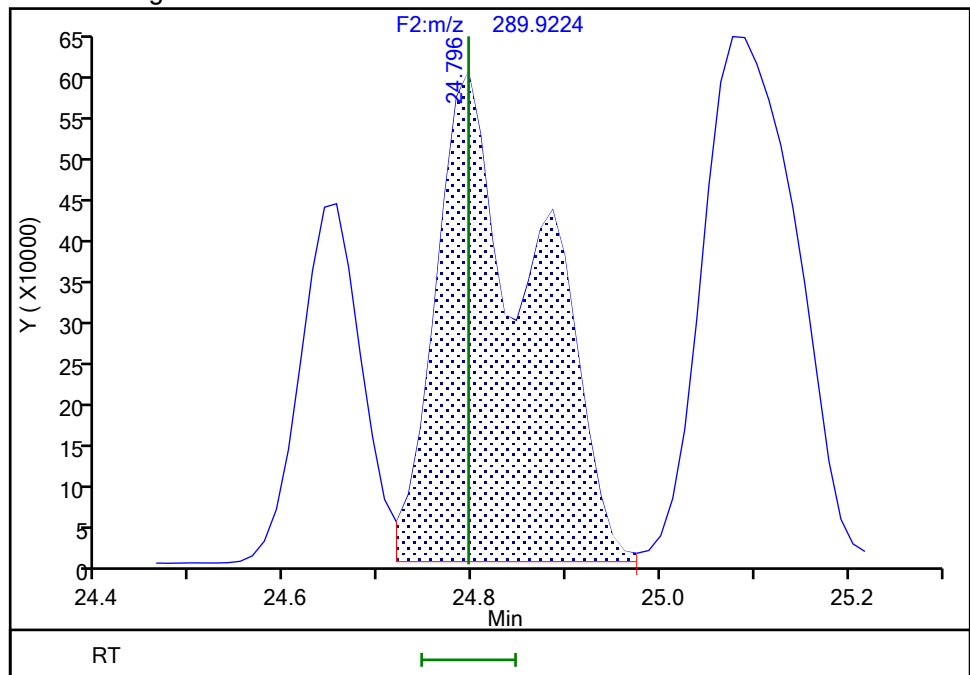
RT: 24.80
Area: 2693215
Amount: 56.161454
Amount Units: pg/ul

Processing Integration Results



RT: 24.80
Area: 4463782
Amount: 97.472941
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:44:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

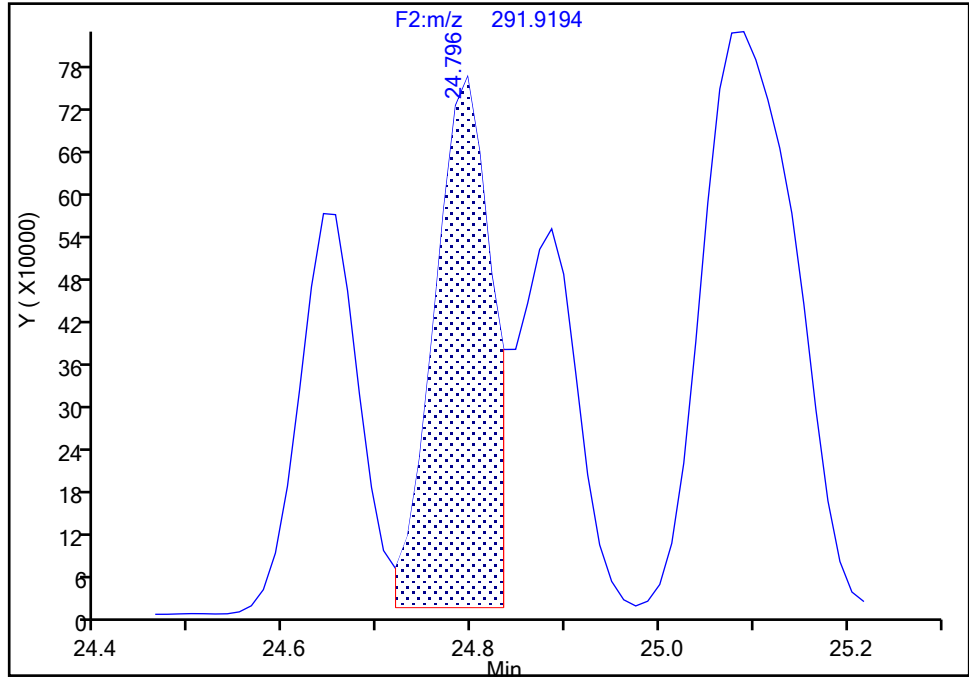
Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

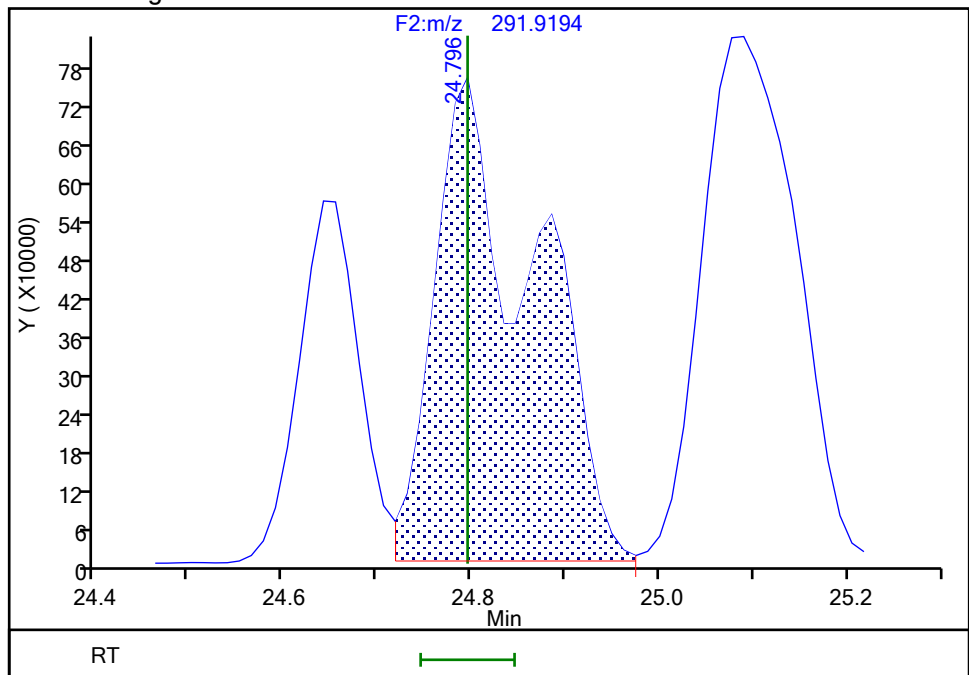
RT: 24.80
Area: 3101514
Amount: 56.161454
Amount Units: pg/ul

Processing Integration Results



RT: 24.80
Area: 5593459
Amount: 97.472941
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:44:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

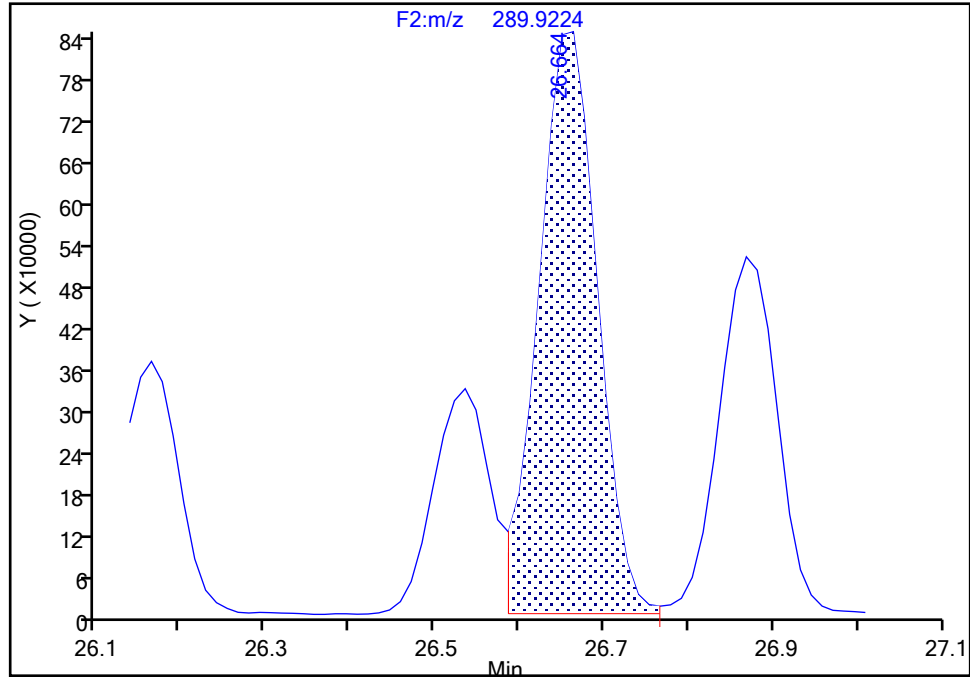
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Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

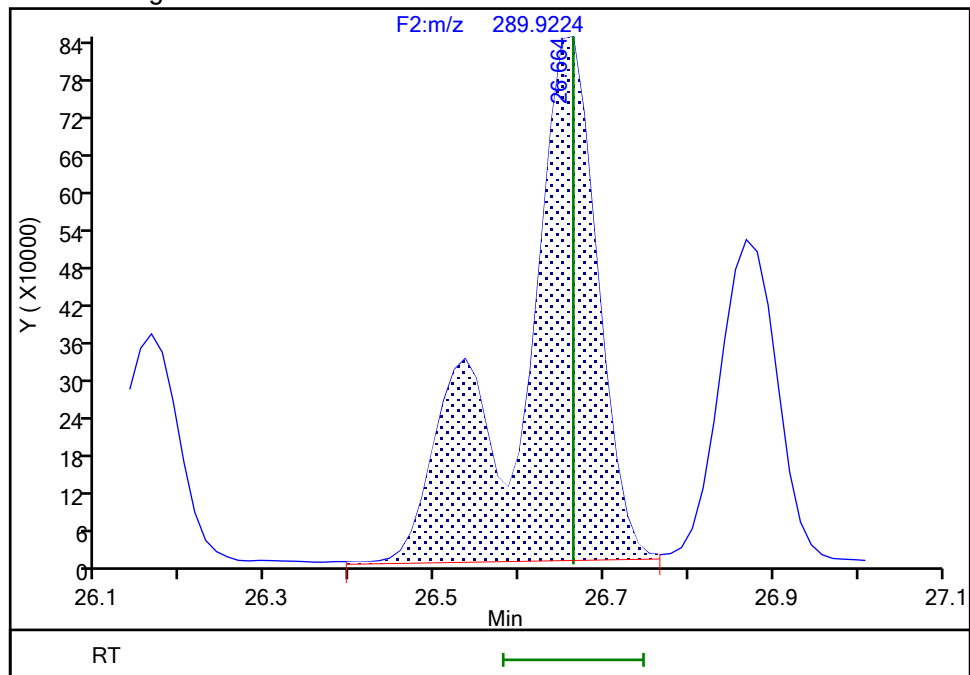
RT: 26.66
Area: 4023830
Amount: 103.1419
Amount Units: pg/ul

Processing Integration Results



RT: 26.66
Area: 5520873
Amount: 142.7518
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:44:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

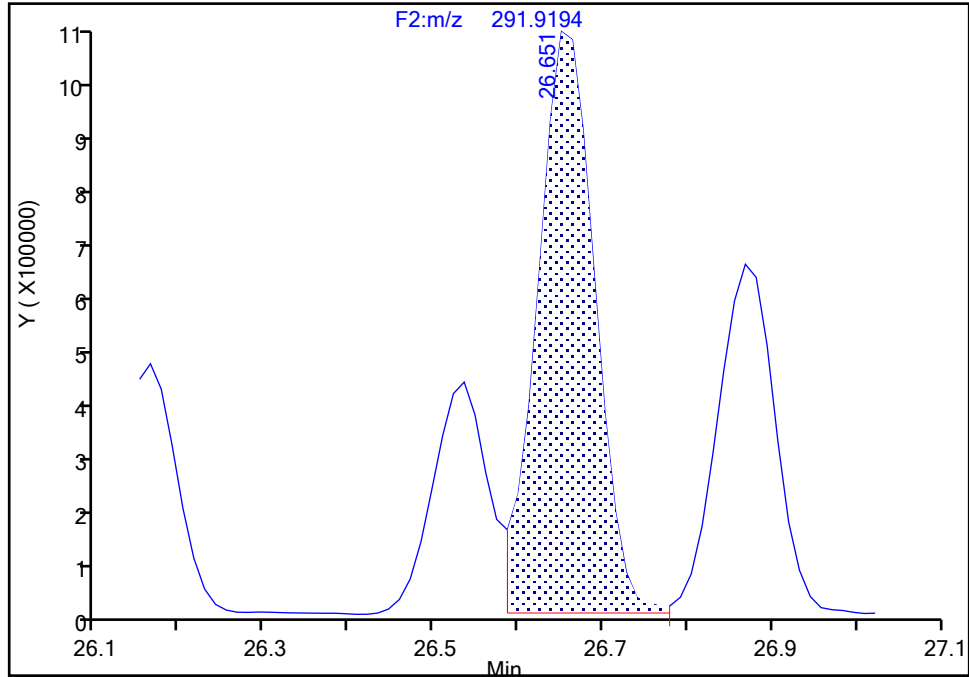
Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

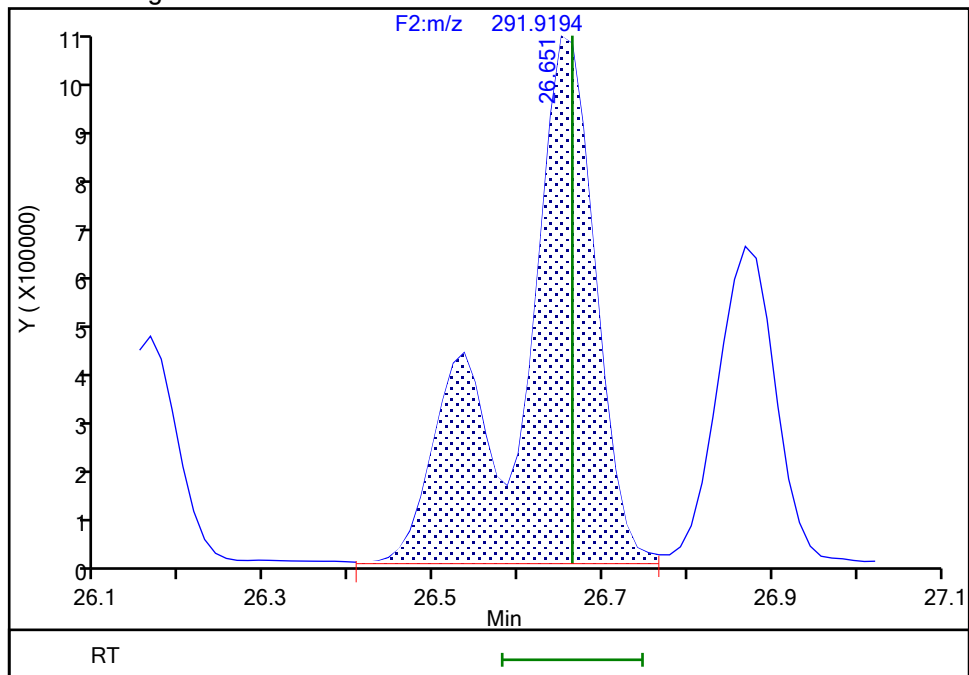
RT: 26.65
Area: 5104324
Amount: 103.1419
Amount Units: pg/ul

Processing Integration Results



RT: 26.65
Area: 7112794
Amount: 142.7518
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:44:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

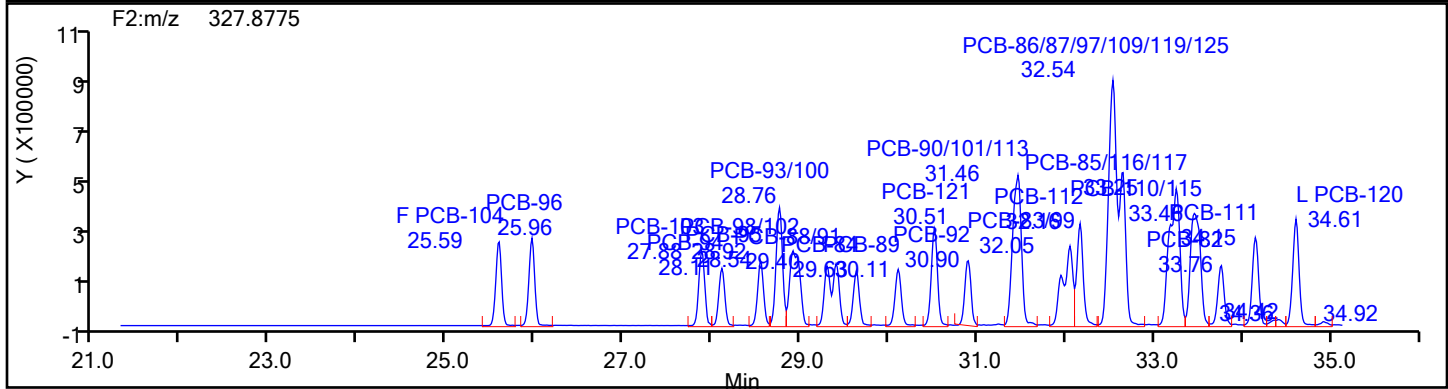
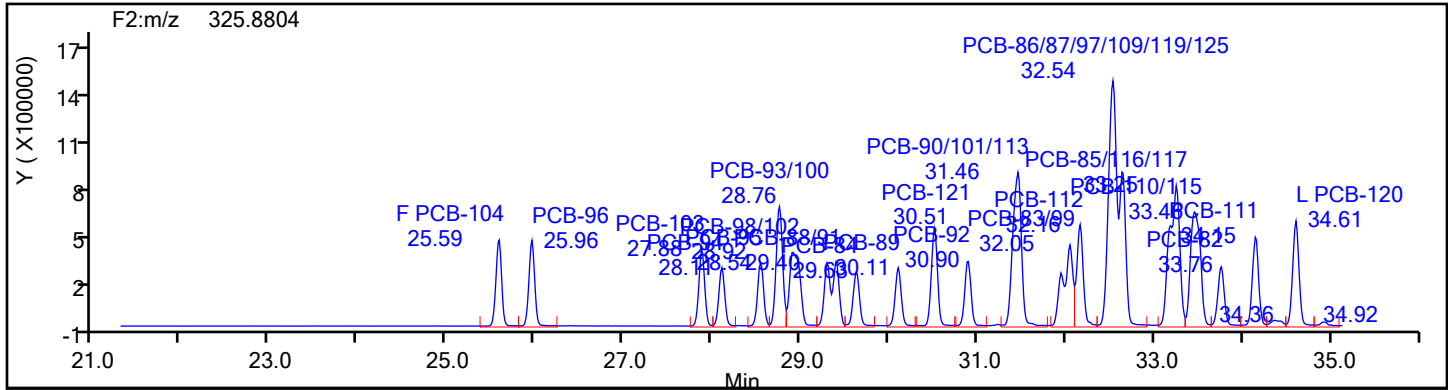
Worklist#: 87571

Sample Line#: 1

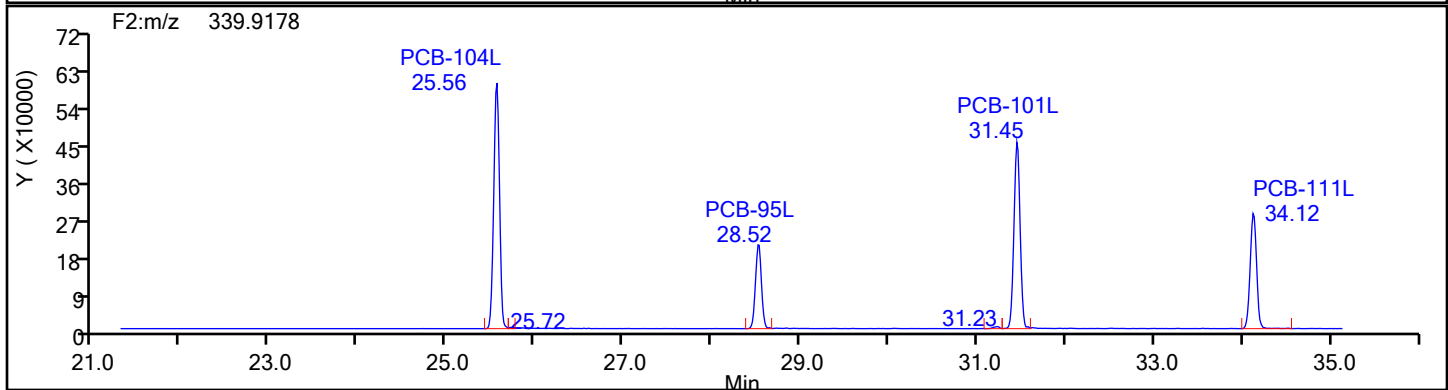
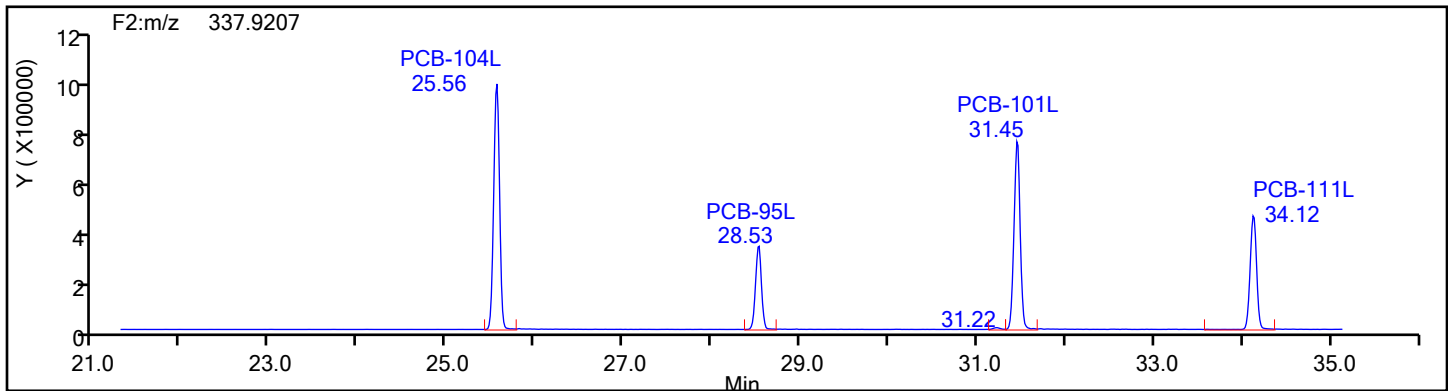
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2

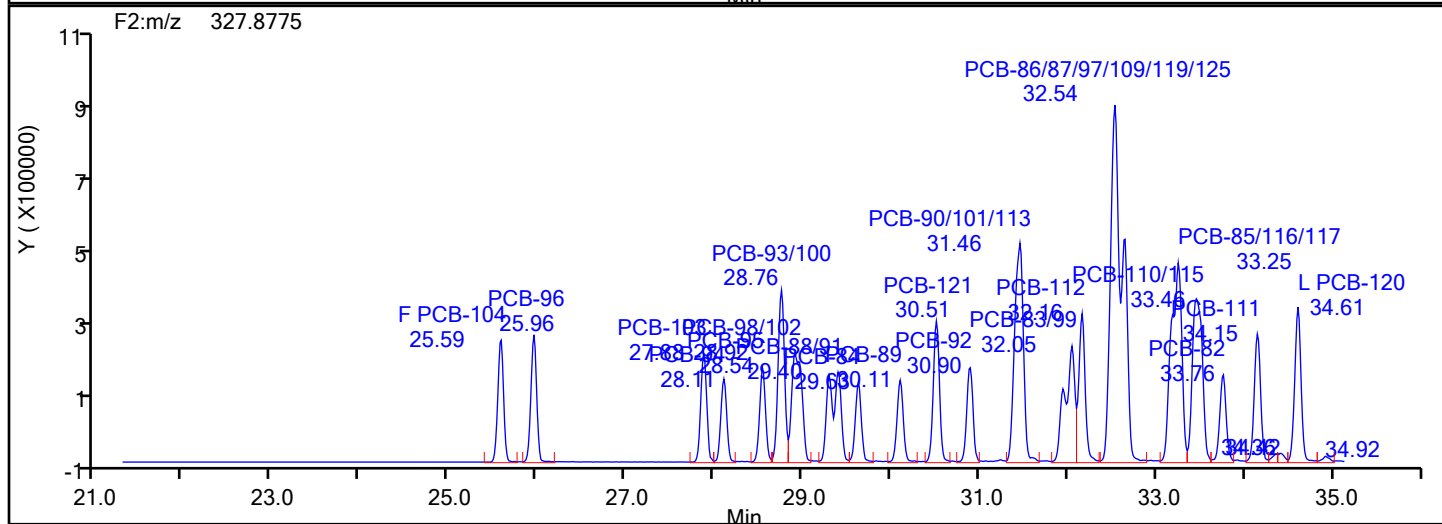
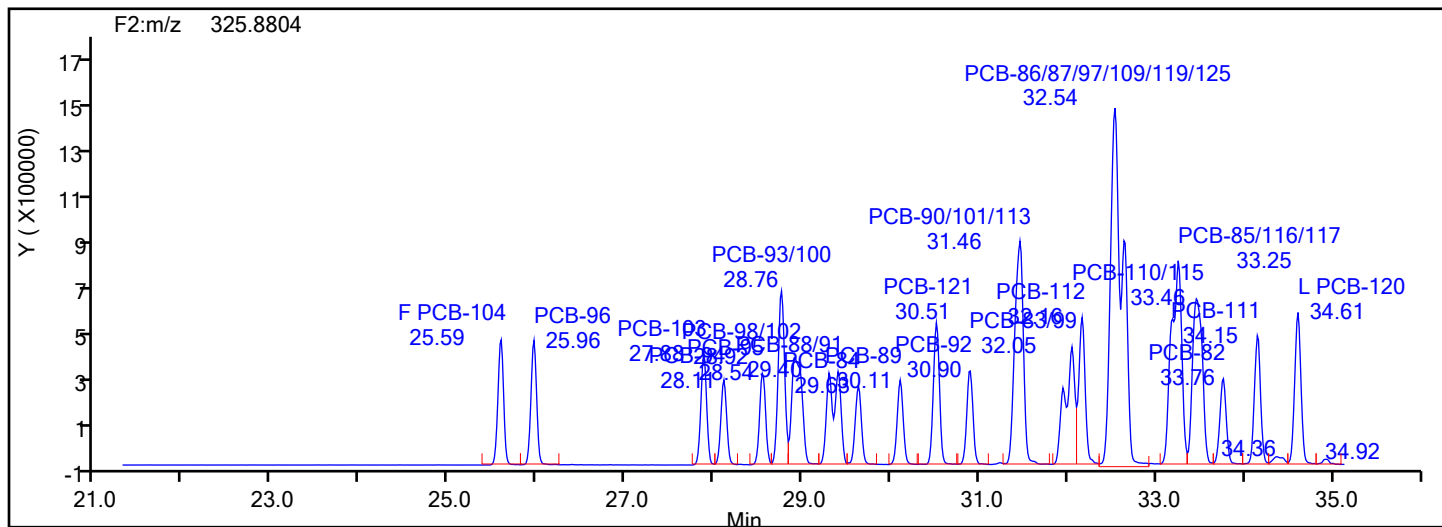


PePCB F2 Standards

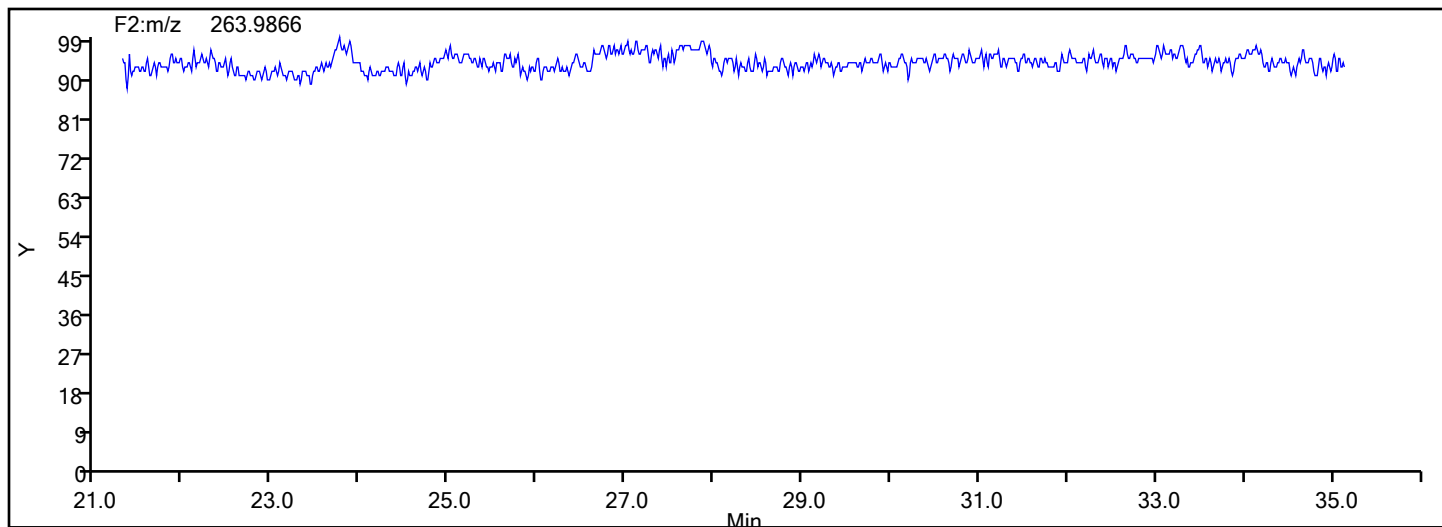


Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d		
Injection Date:	12-Jun-2024 11:22:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	87571	Sample Line#:	1
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
PePCB F2			



PePCB F2 Lock Mass



Eurofins Knoxville

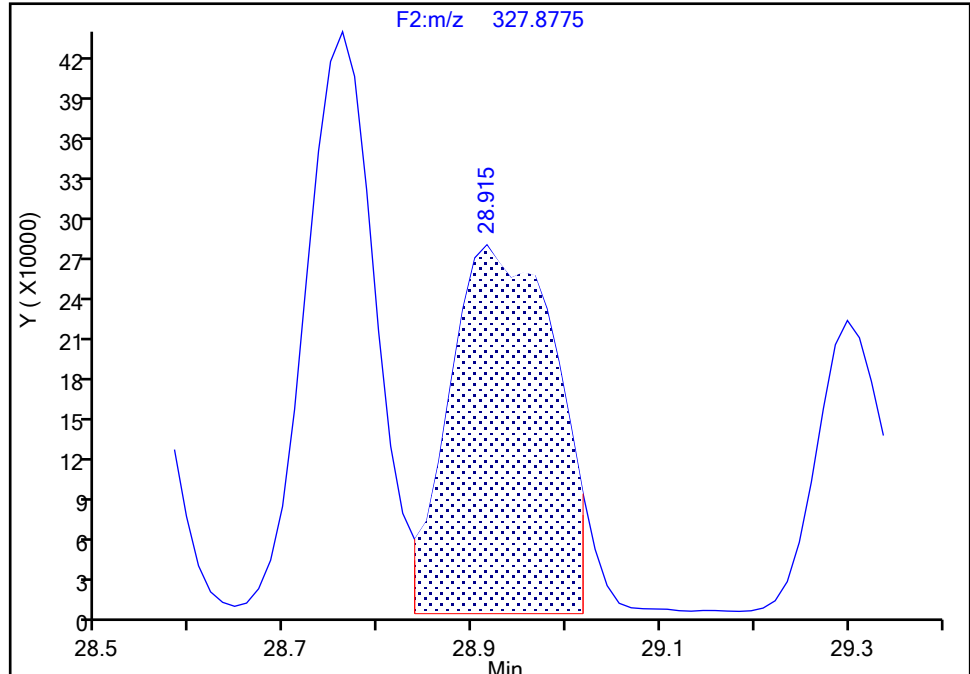
Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 2

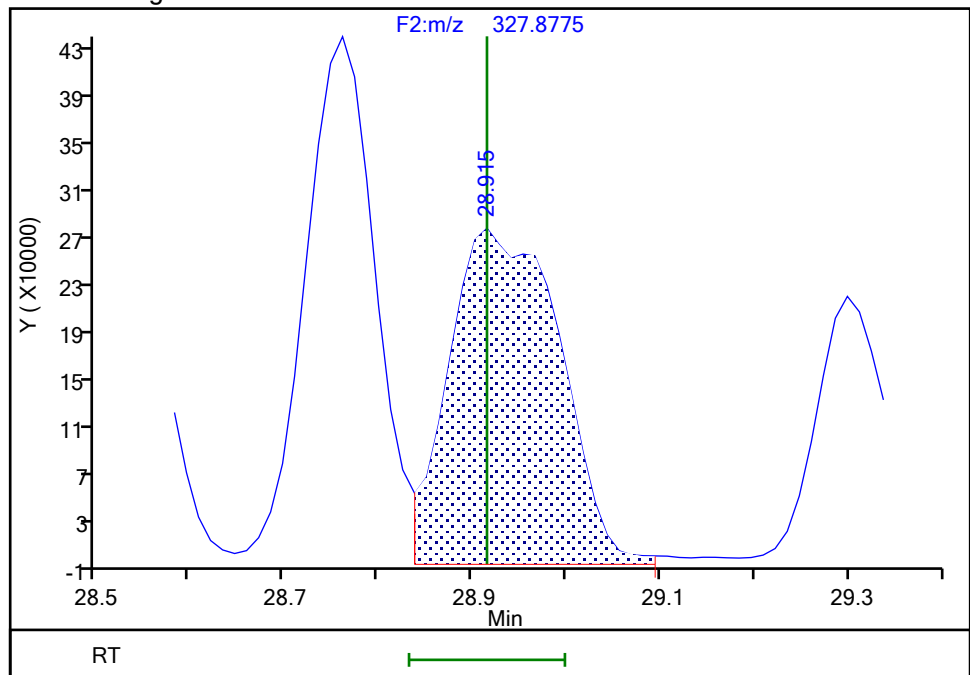
RT: 28.92
Area: 2120783
Amount: 96.397954
Amount Units: pg/ul

Processing Integration Results



RT: 28.92
Area: 2255083
Amount: 98.675718
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:45:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

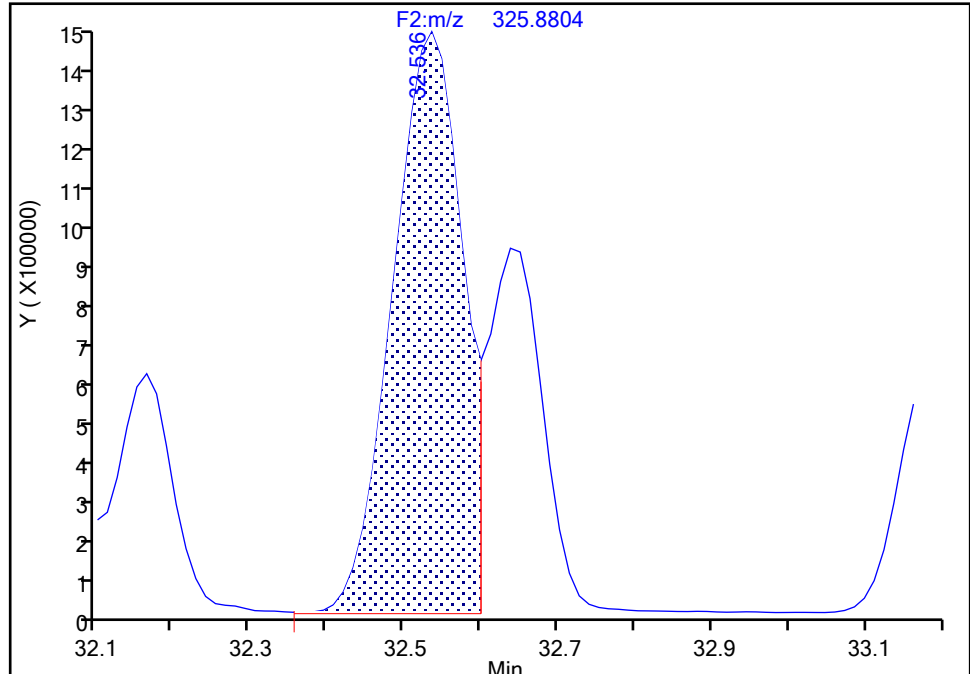
F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

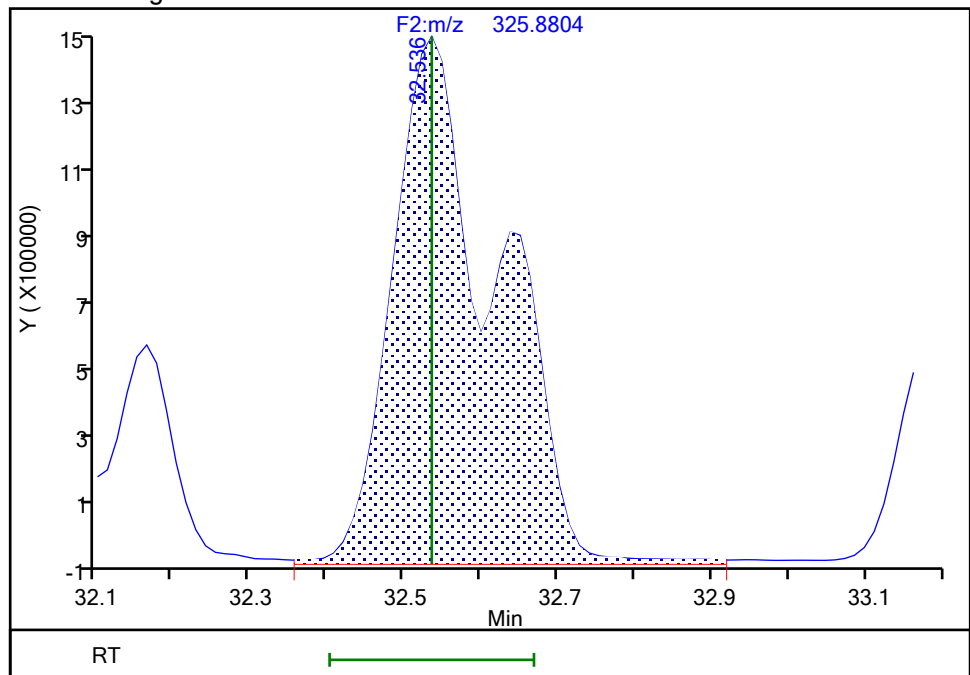
RT: 32.54
Area: 8949050
Amount: 194.7030
Amount Units: pg/ul

Processing Integration Results



RT: 32.54
Area: 13505410
Amount: 293.9388
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:45:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

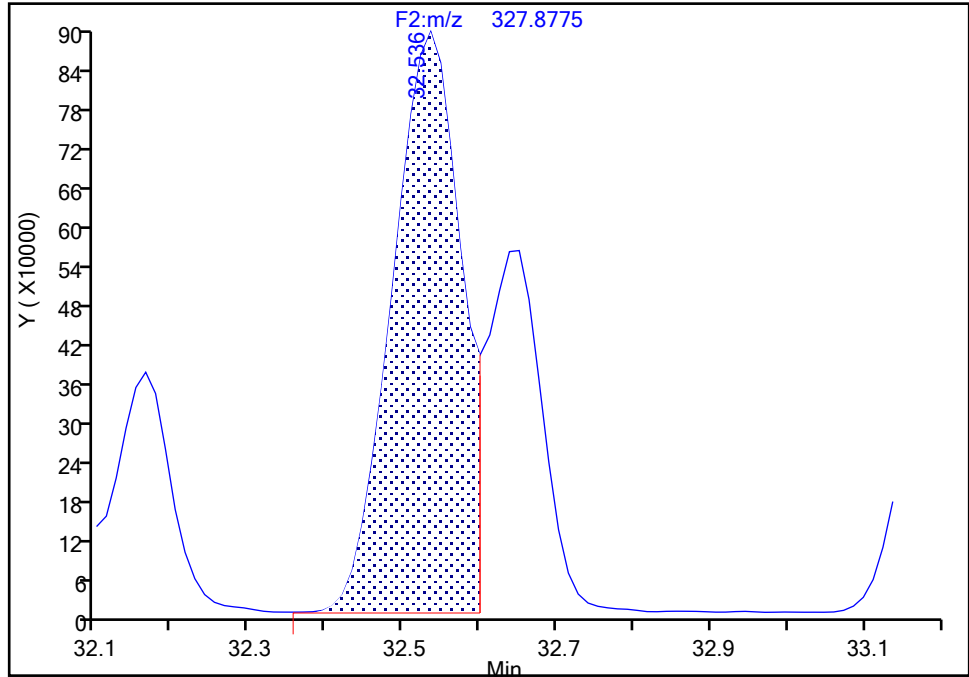
Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

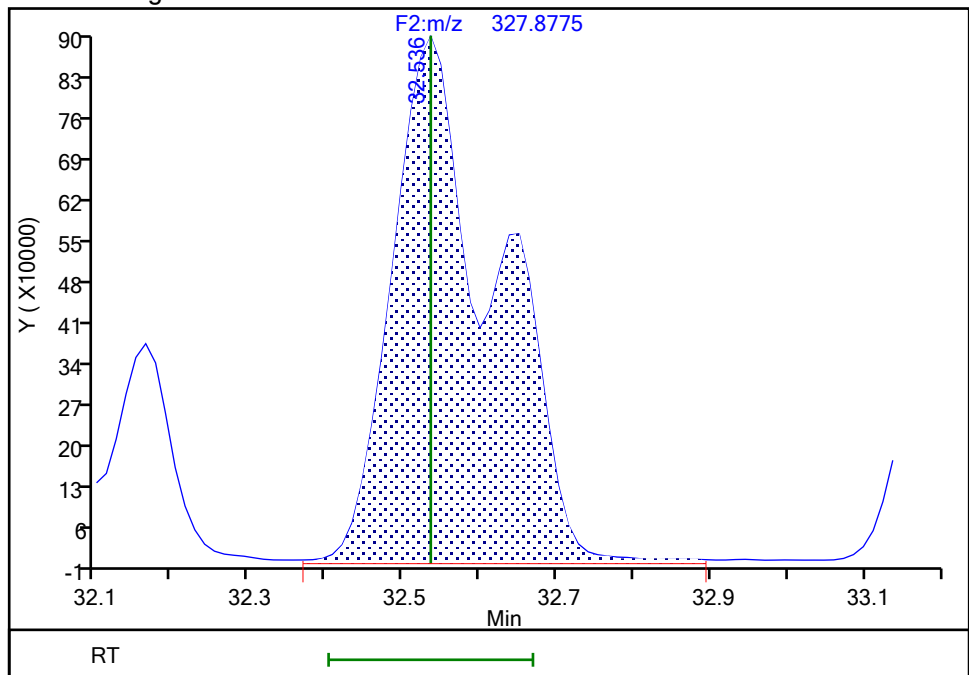
RT: 32.54
Area: 5603431
Amount: 194.7030
Amount Units: pg/ul

Processing Integration Results



RT: 32.54
Area: 8464143
Amount: 293.9388
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:45:34 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

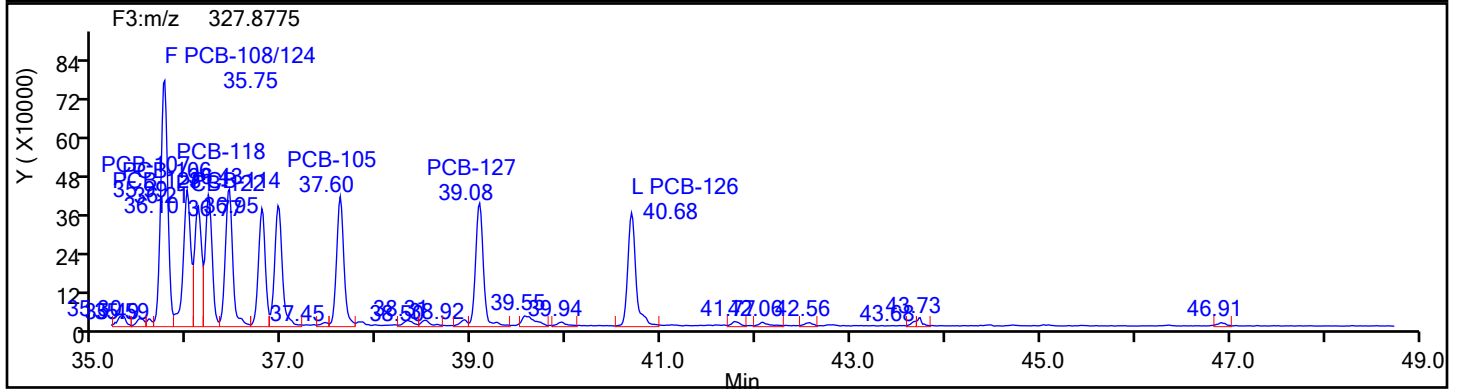
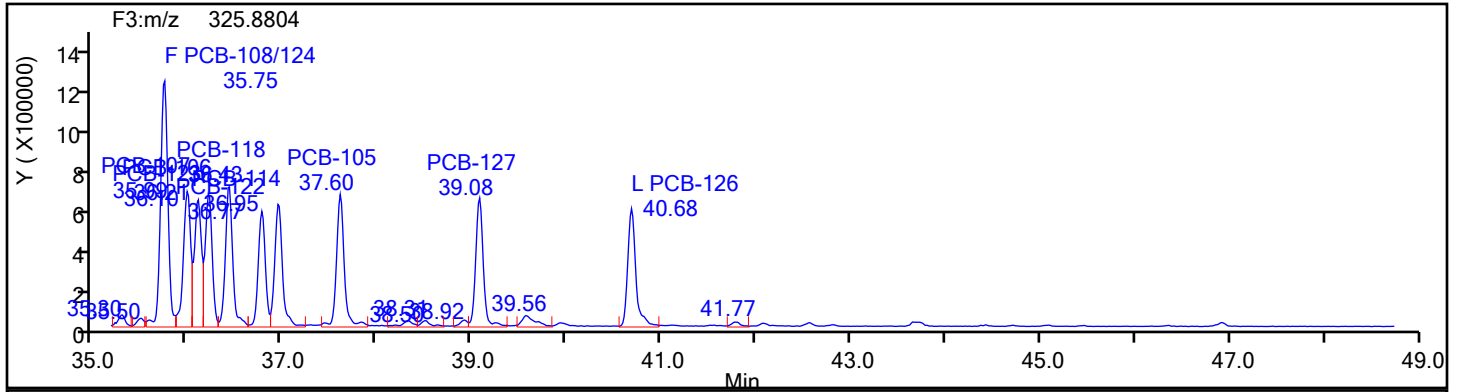
Worklist#: 87571

Sample Line#: 1

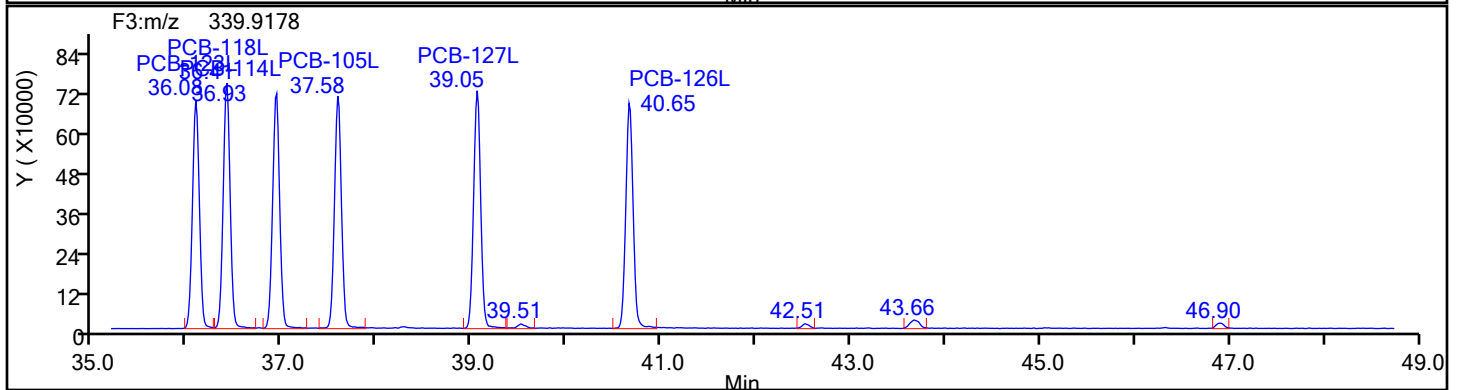
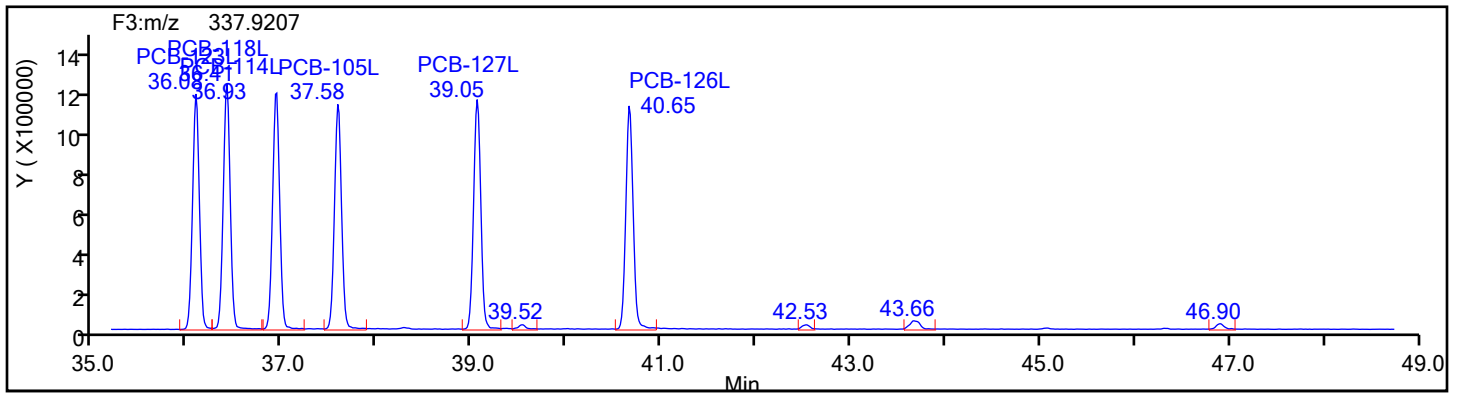
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

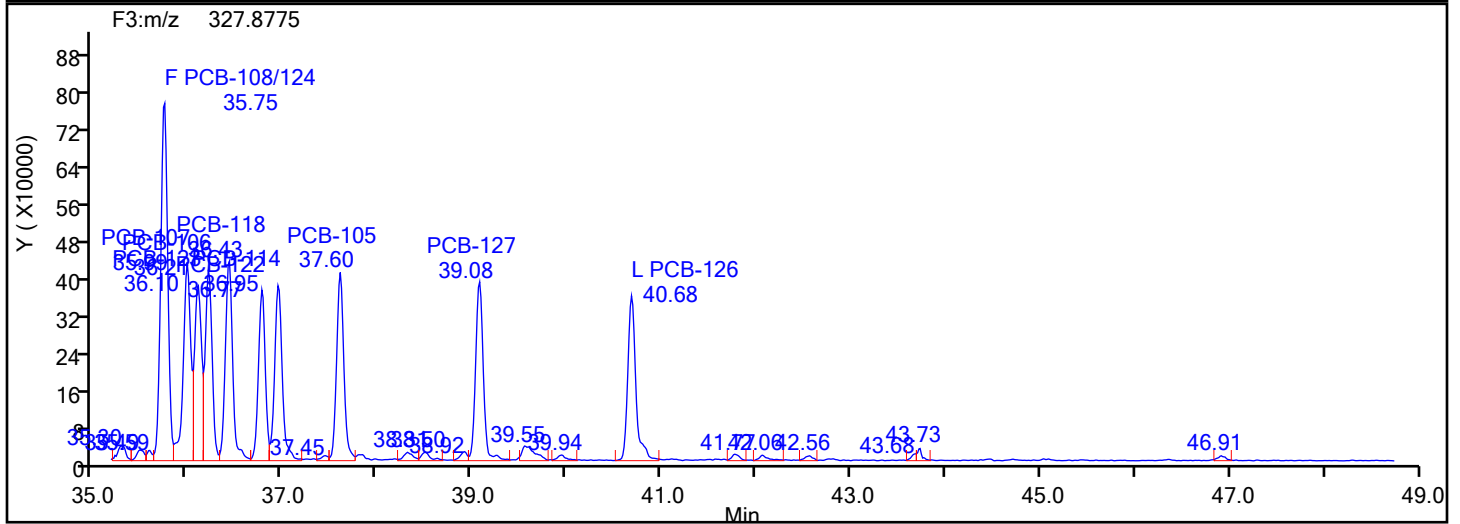
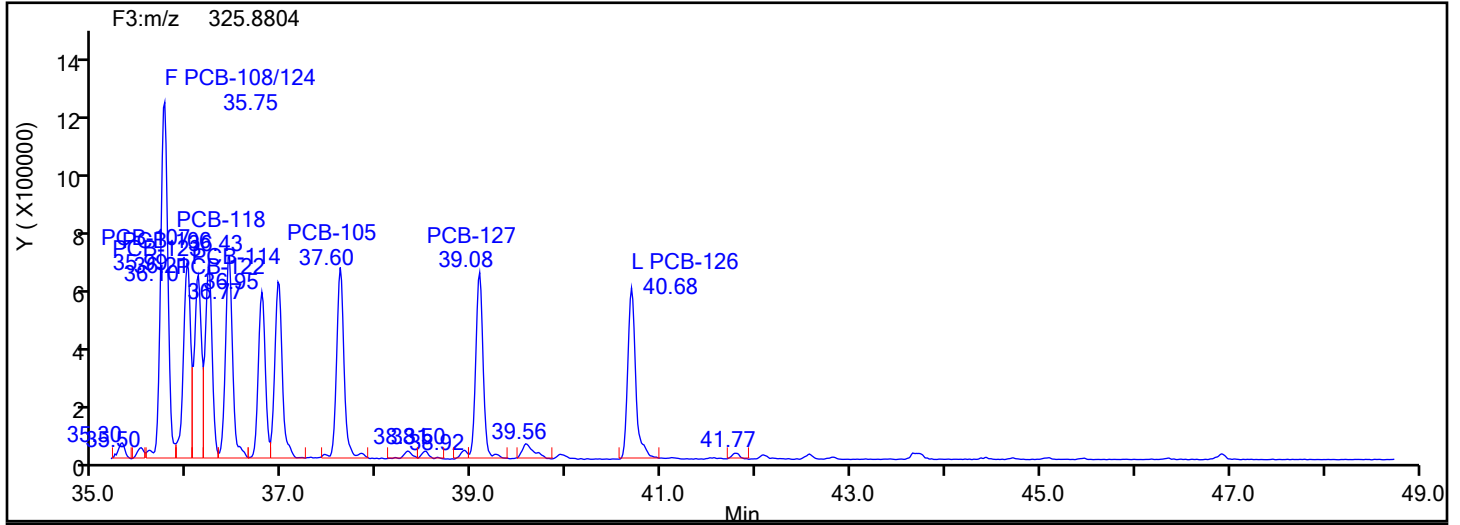
Worklist#: 87571

Sample Line#: 1

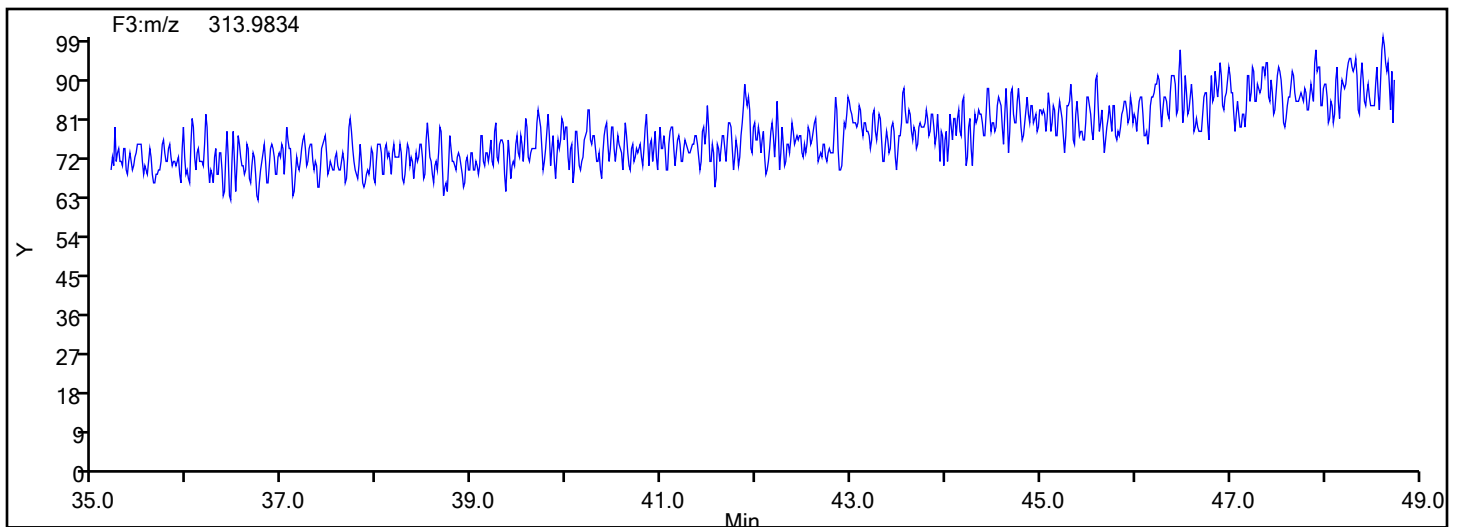
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

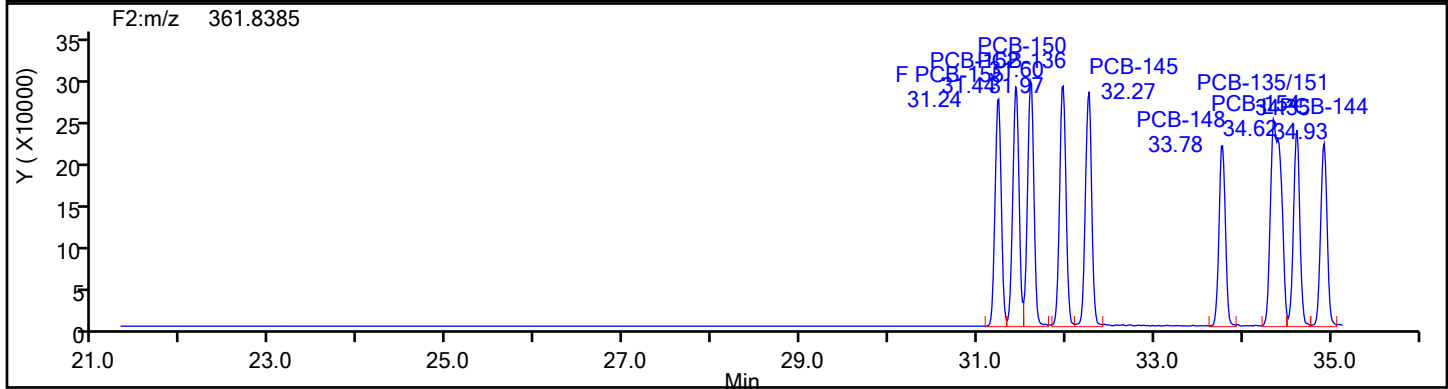
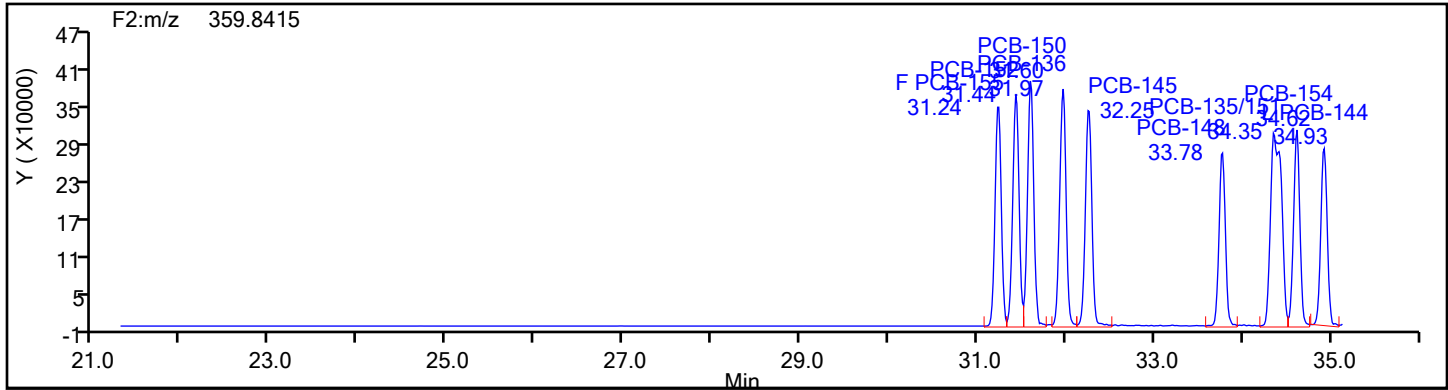
Worklist#: 87571

Sample Line#: 1

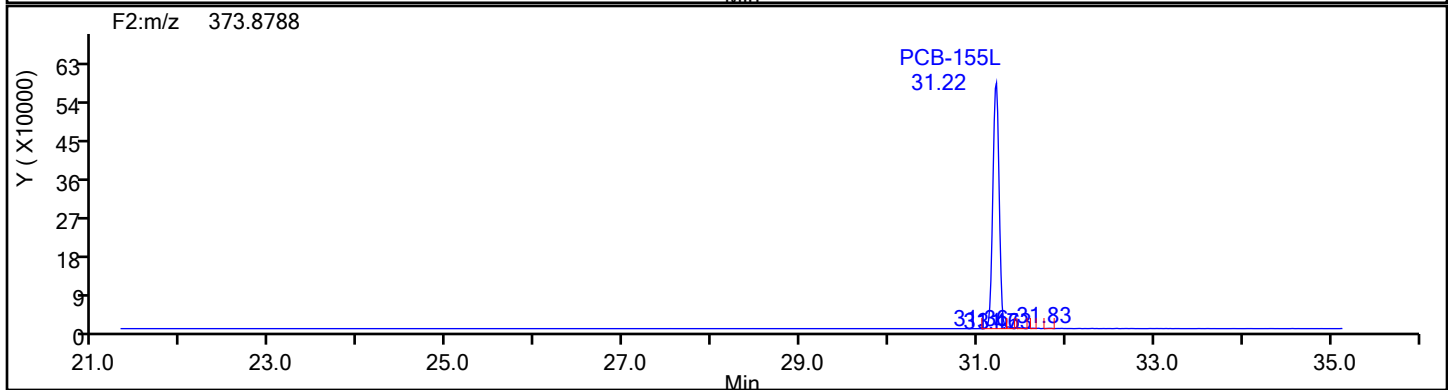
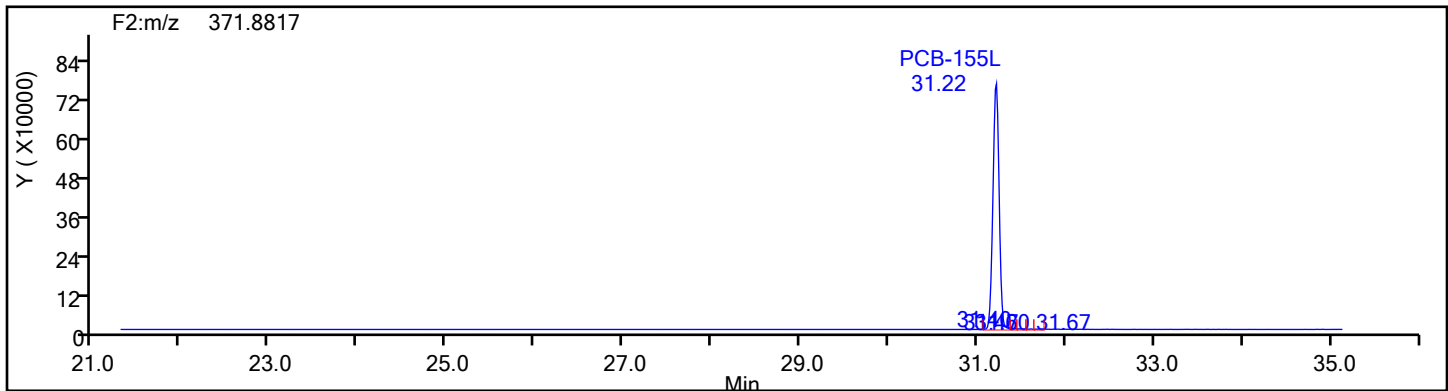
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

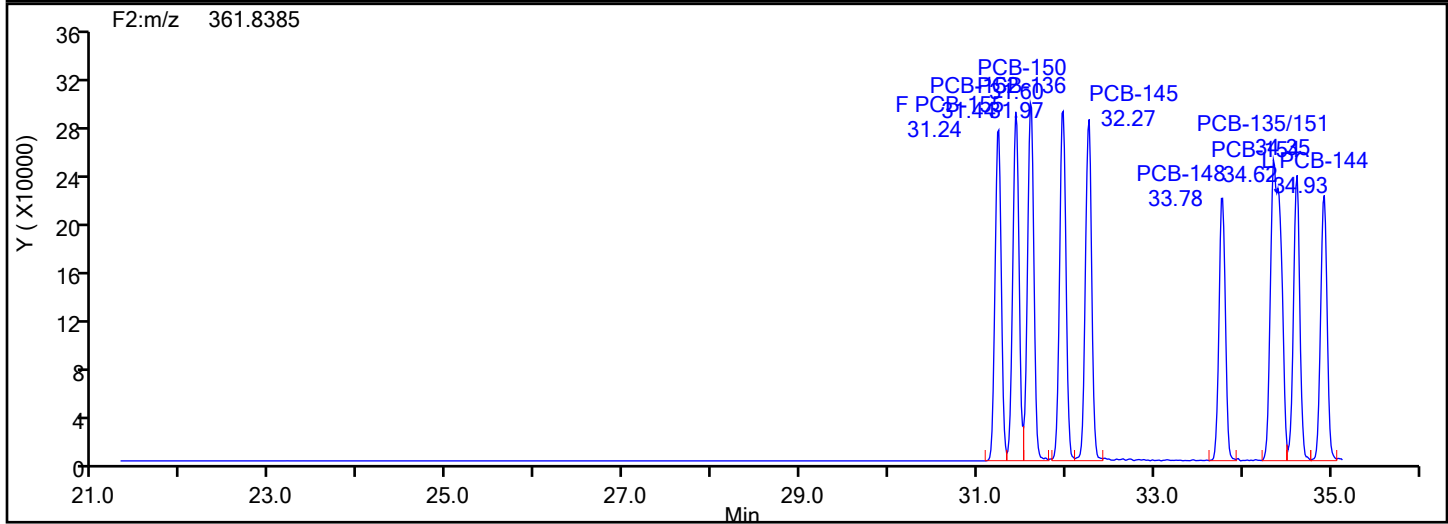
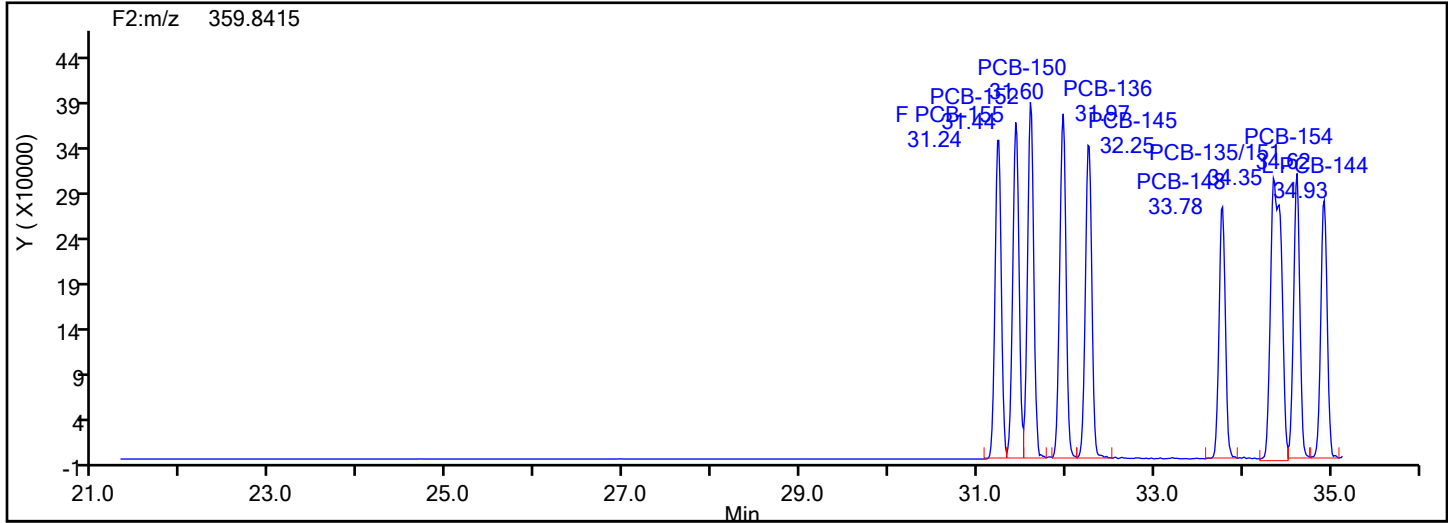
Worklist#: 87571

Sample Line#: 1

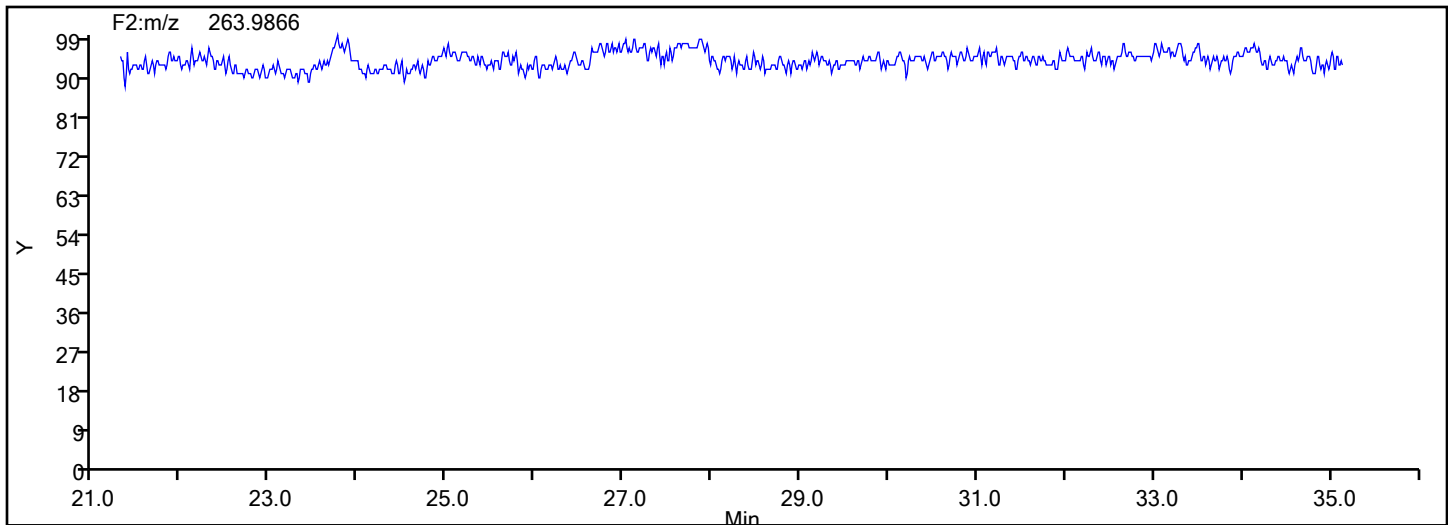
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

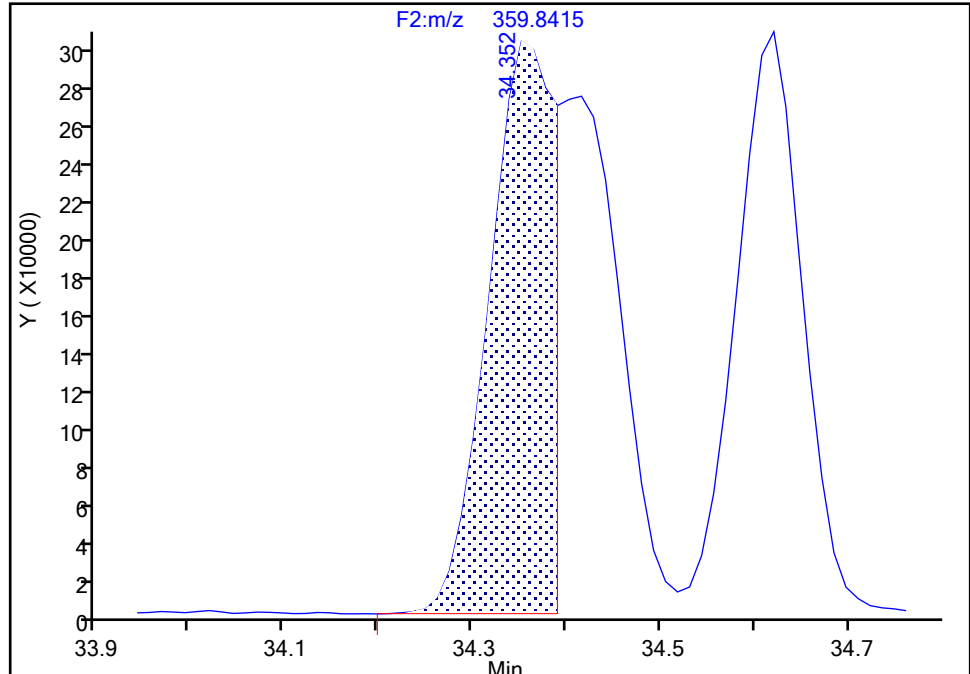
Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

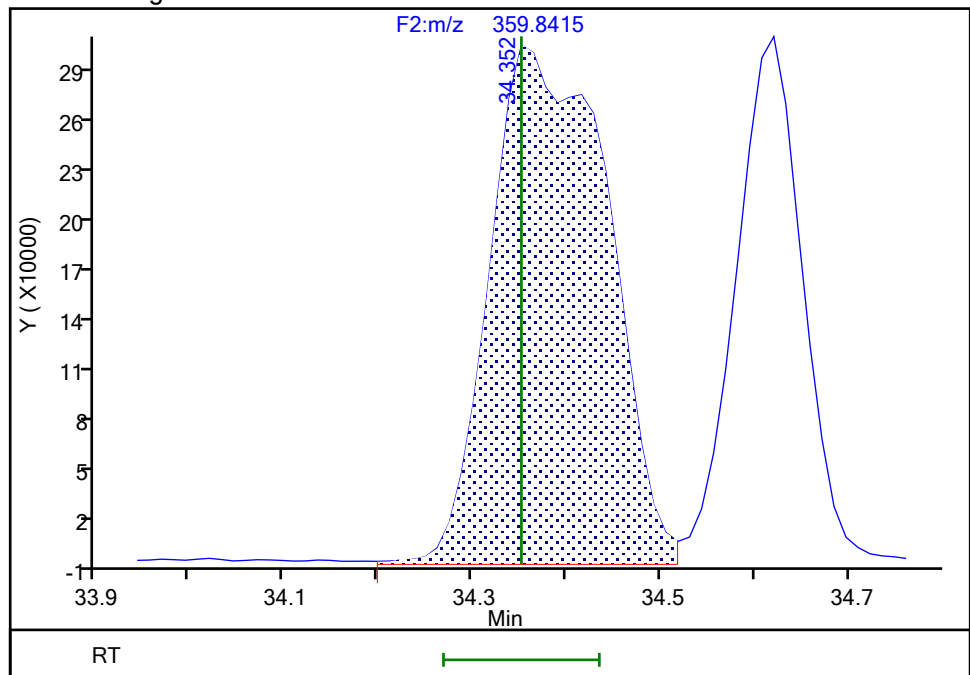
RT: 34.35
Area: 1411699
Amount: 74.052797
Amount Units: pg/ul

Processing Integration Results



RT: 34.35
Area: 2659890
Amount: 100.1829
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:46:04 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Chrom Revision: 2.3 20-May-2024 22:00:34

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Vol: 1.0 ul

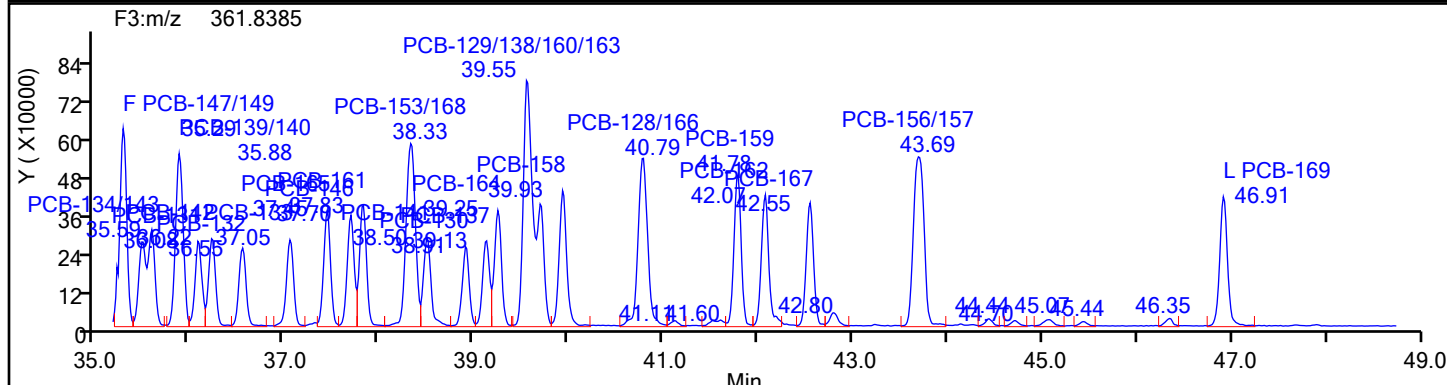
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

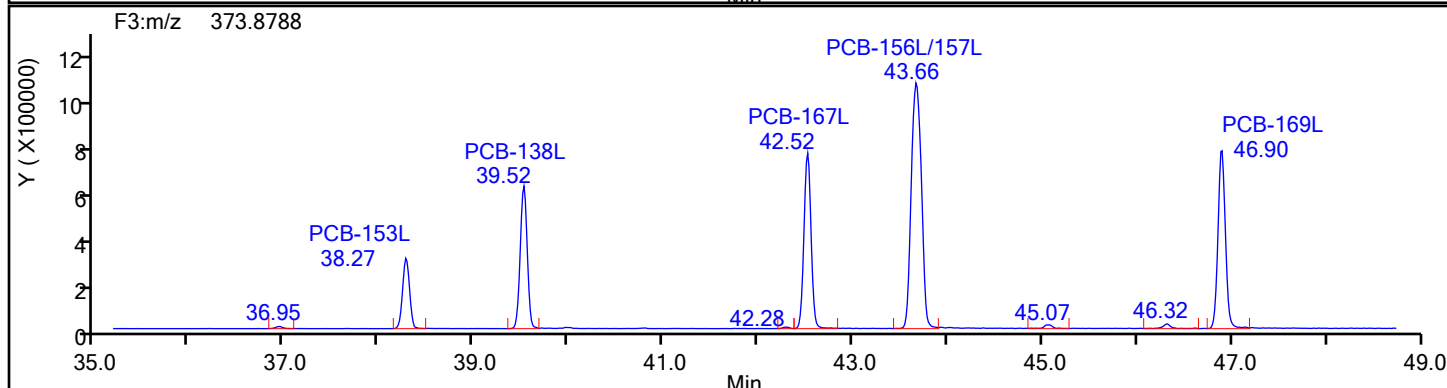
Entire Group

Sample Line#: 1

Column Dia: 0.25 mm



HxCPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

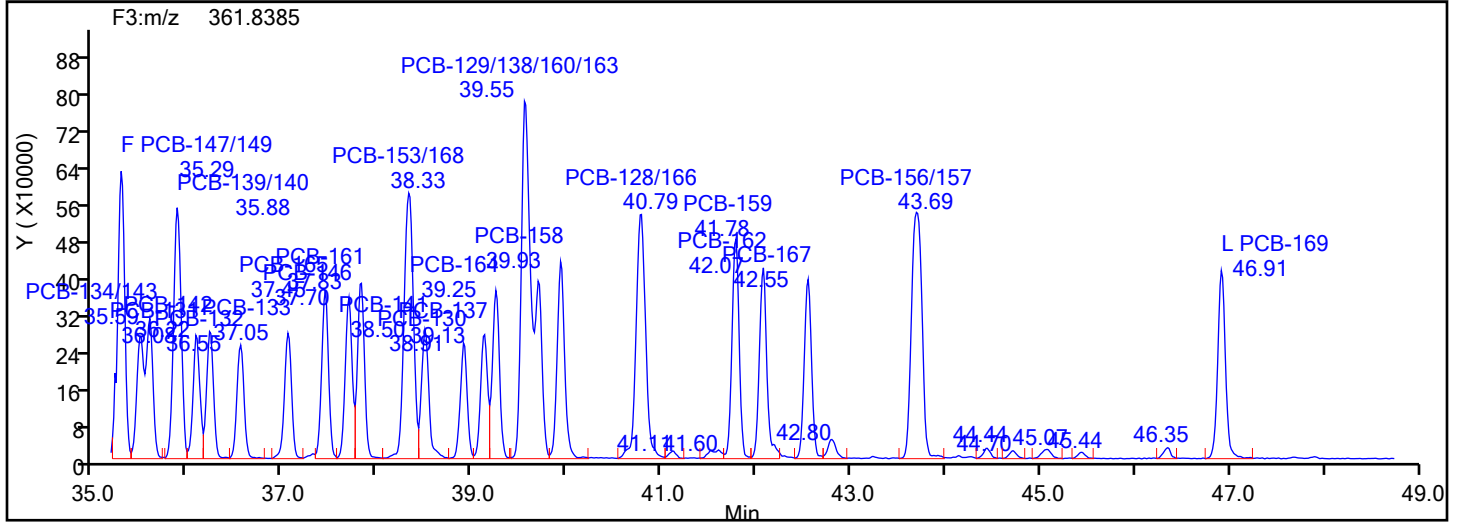
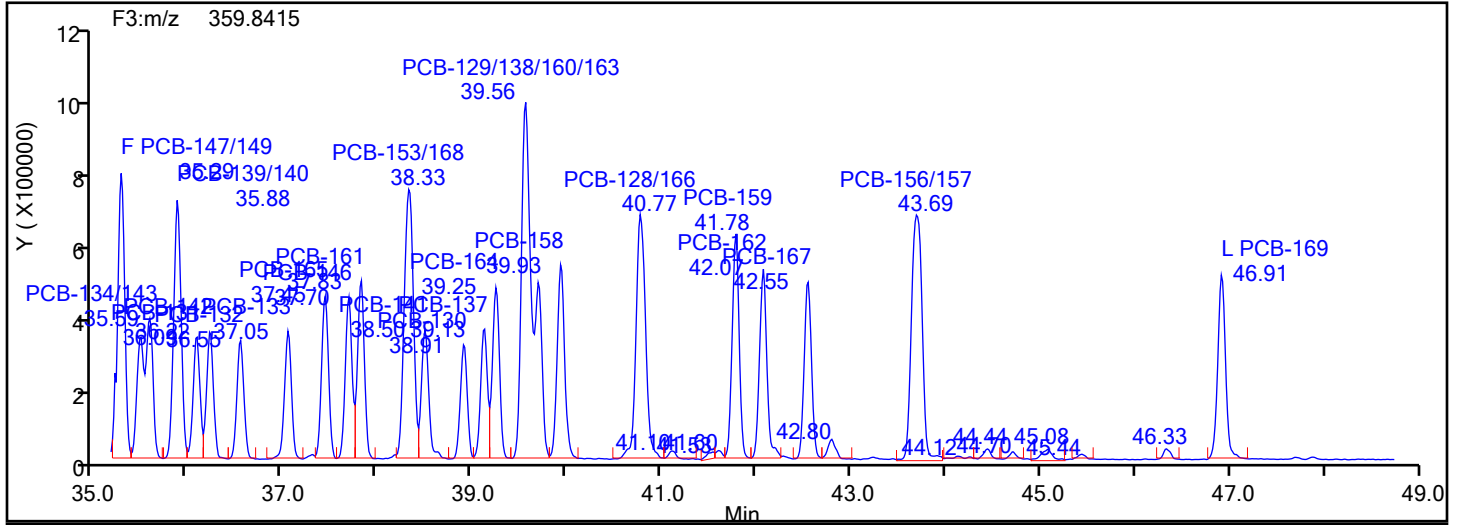
Worklist#: 87571

Sample Line#: 1

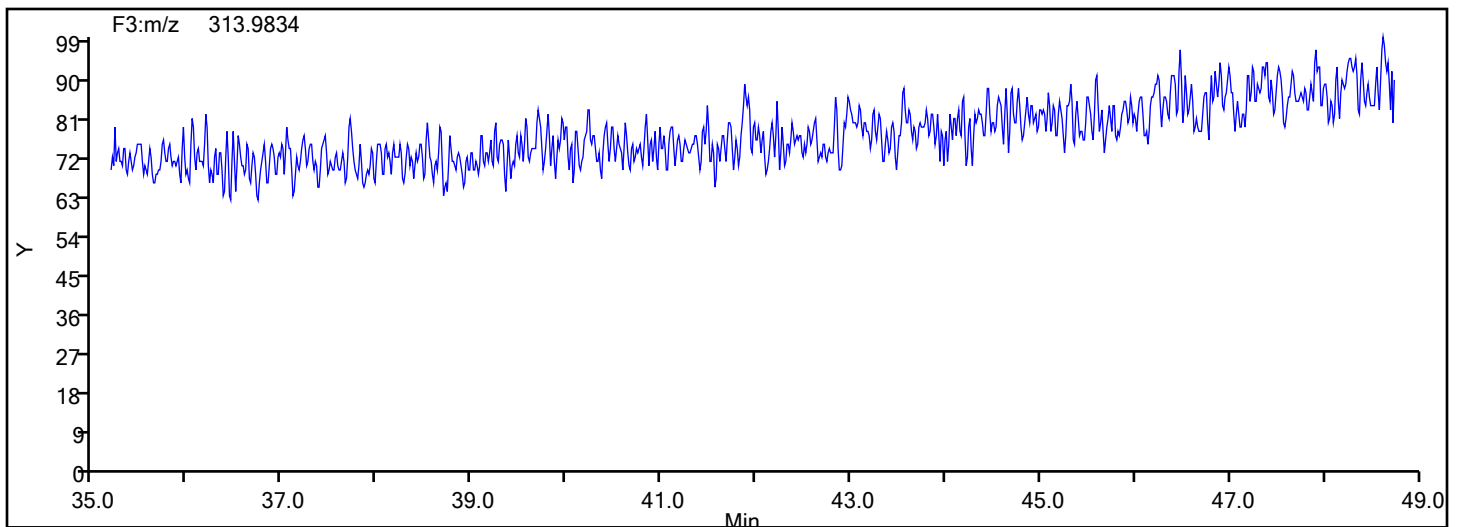
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

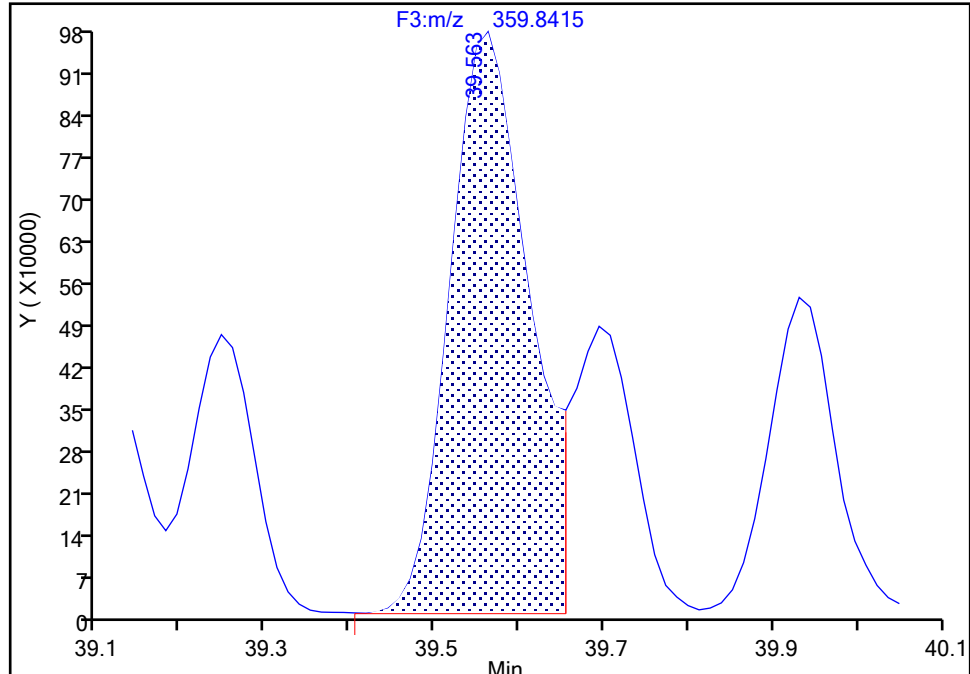
Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

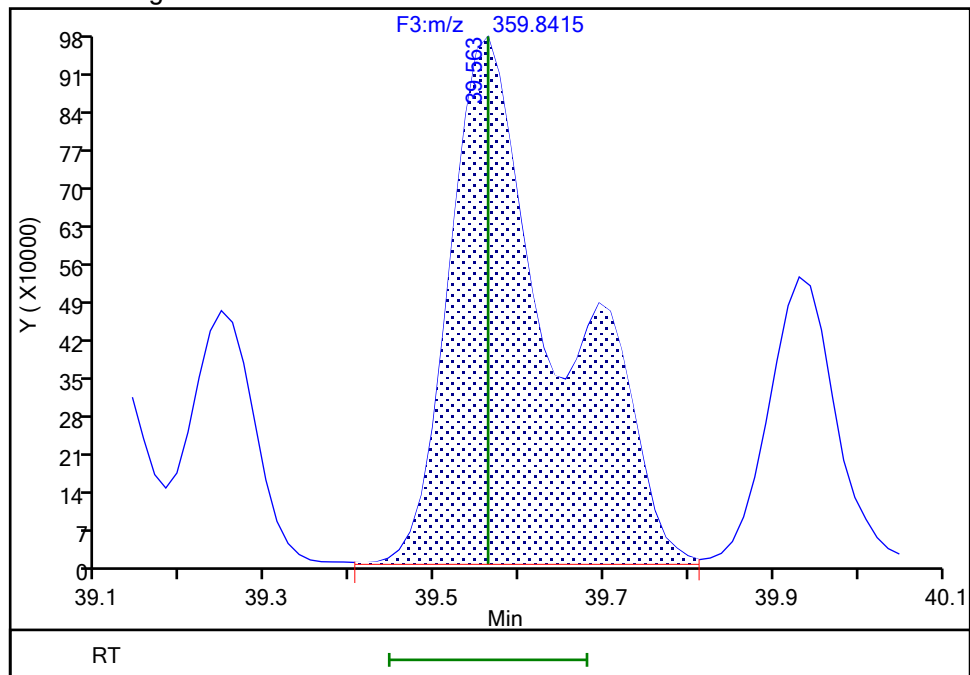
RT: 39.56
Area: 6319324
Amount: 138.5403
Amount Units: pg/ul

Processing Integration Results



RT: 39.56
Area: 8666461
Amount: 189.9201
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:46:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

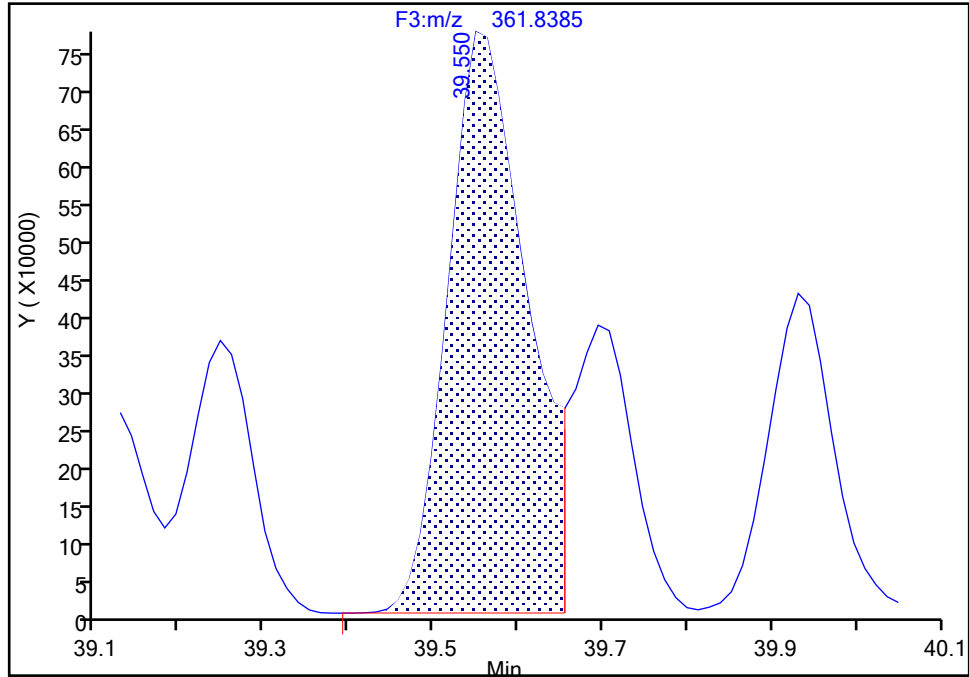
Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

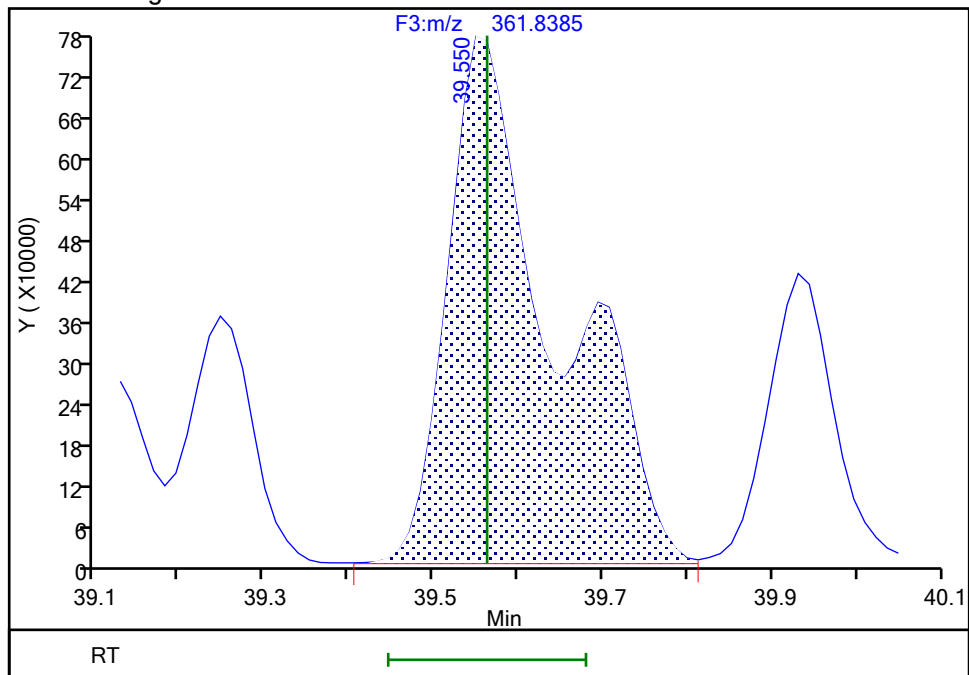
RT: 39.55
Area: 5032027
Amount: 138.5403
Amount Units: pg/ul

Processing Integration Results



RT: 39.55
Area: 6894710
Amount: 189.9201
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:46:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

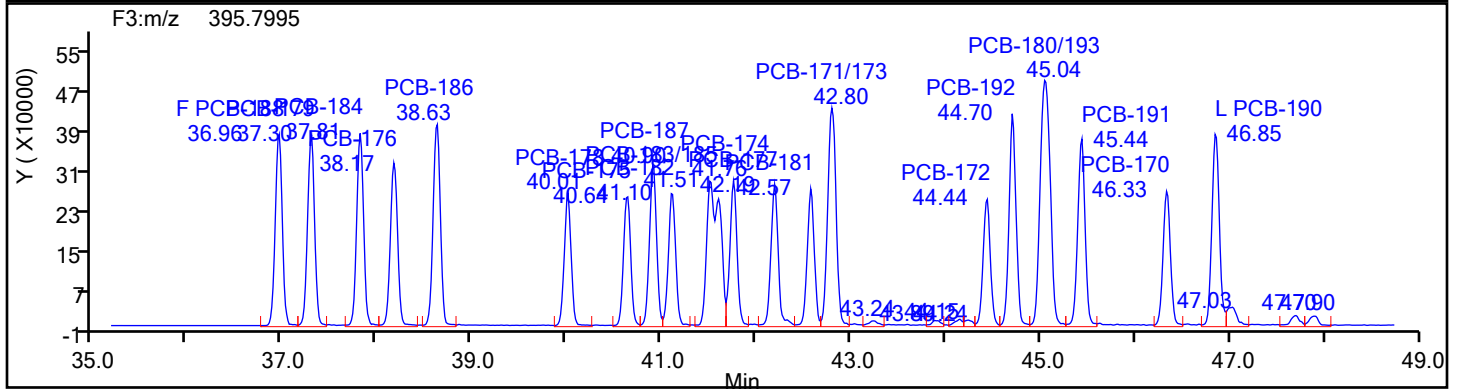
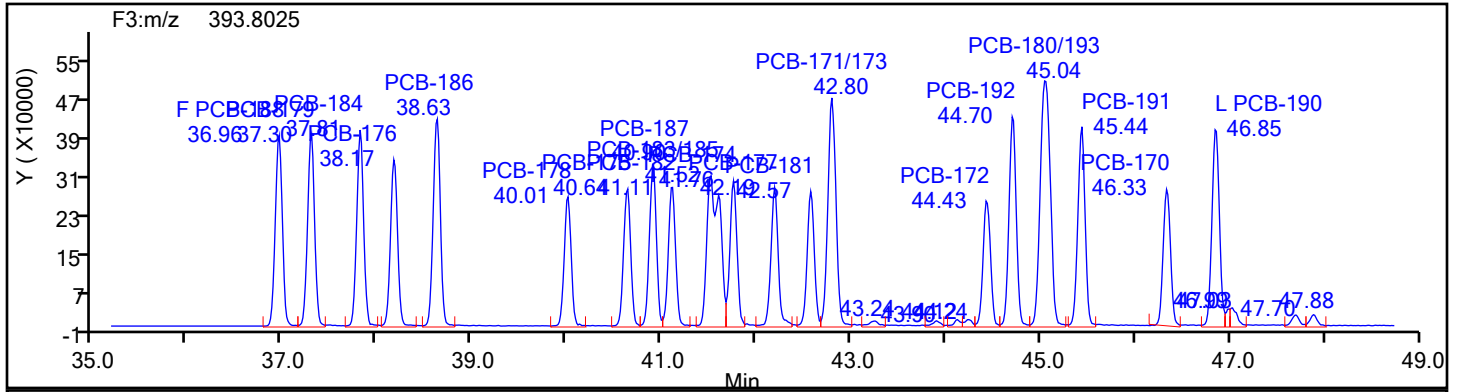
Worklist#: 87571

Sample Line#: 1

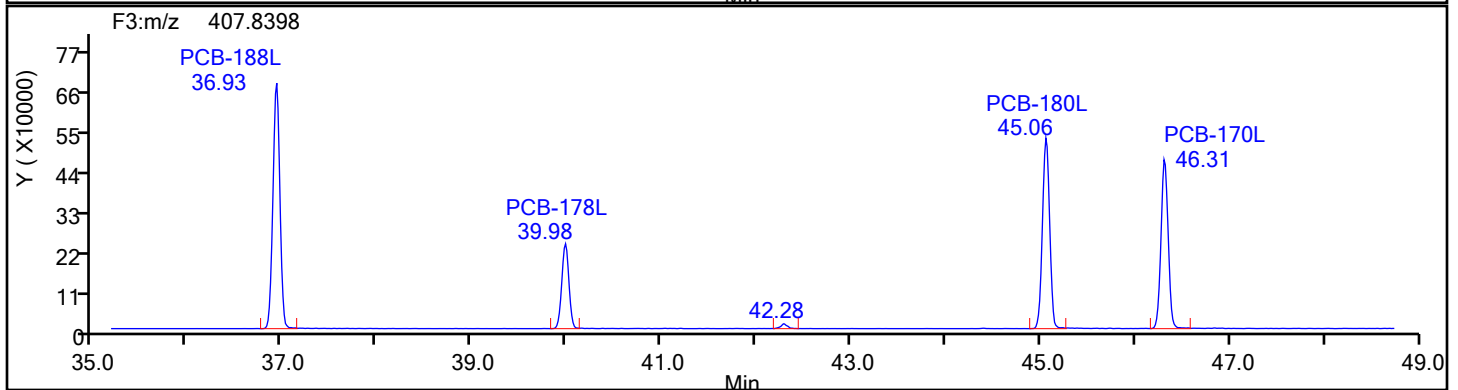
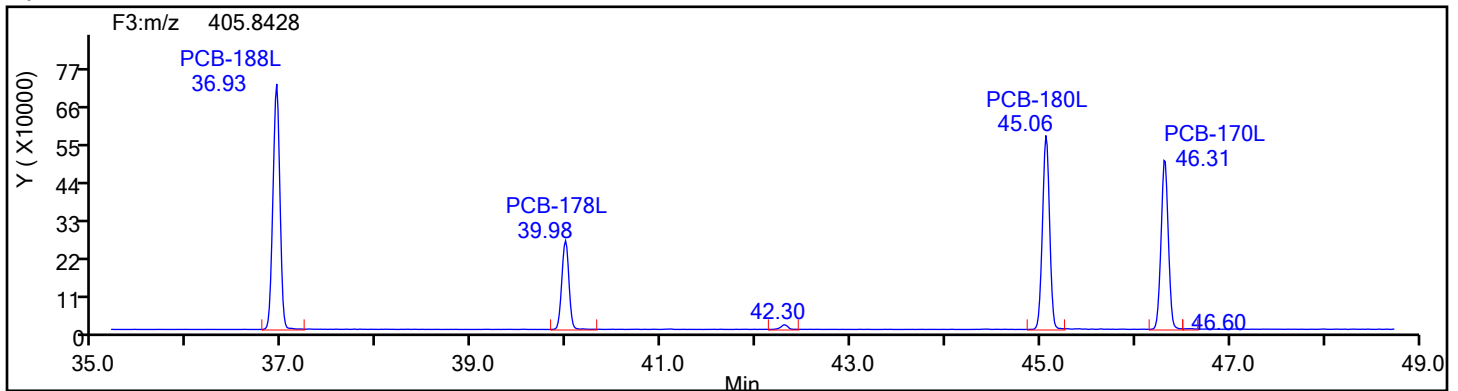
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

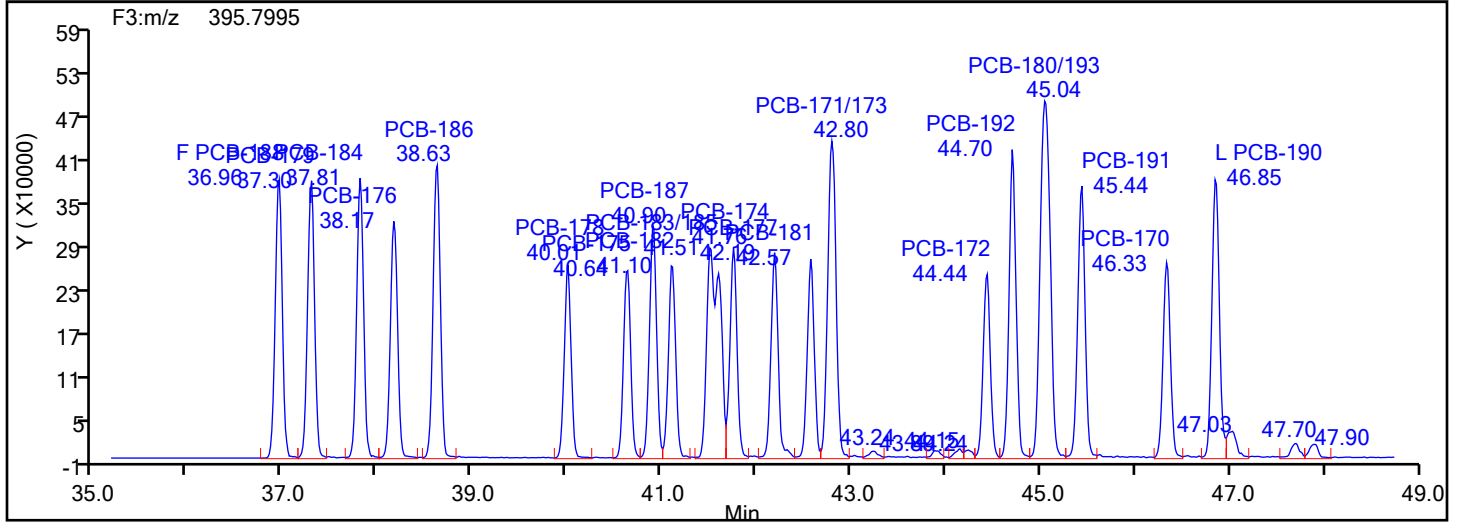
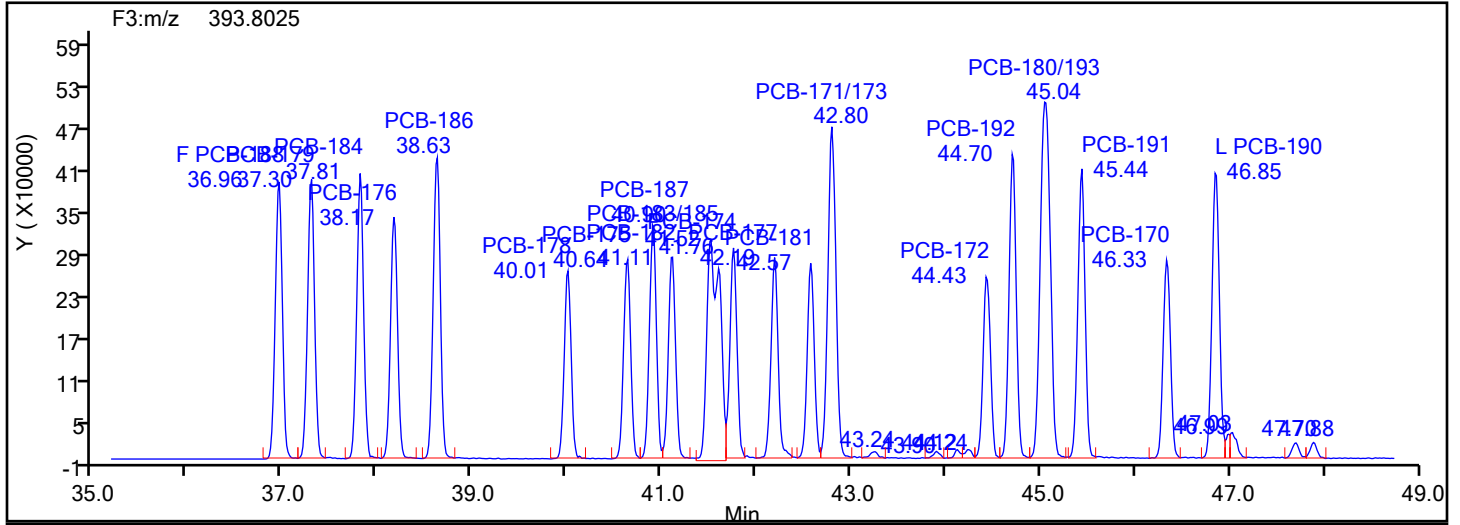
Worklist#: 87571

Sample Line#: 1

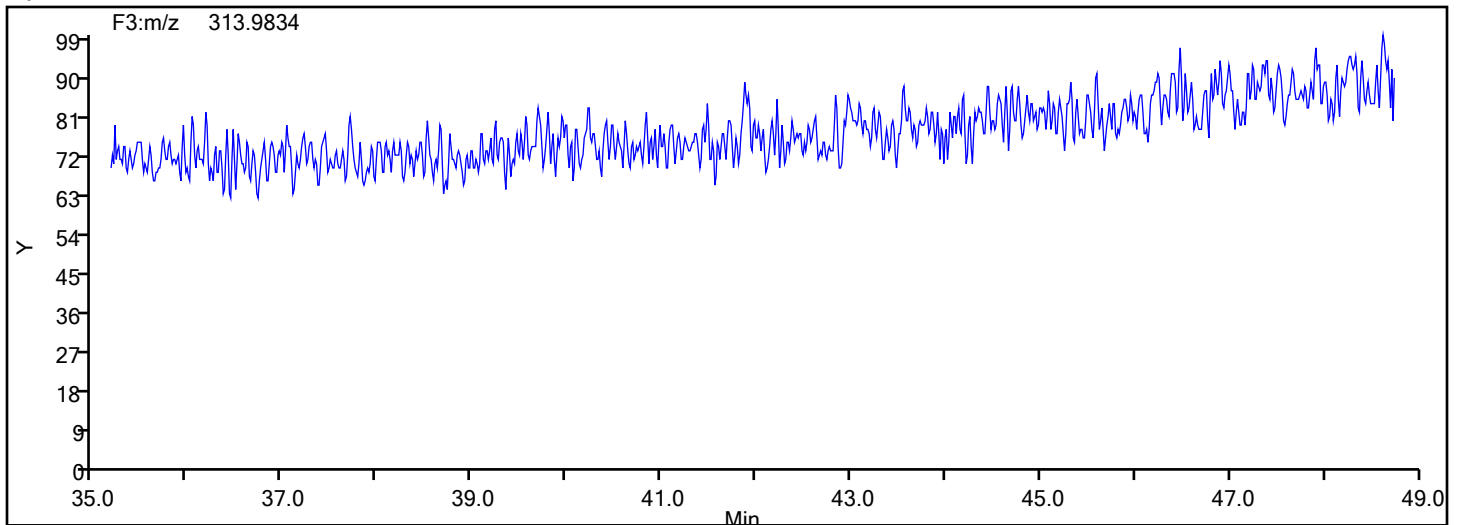
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

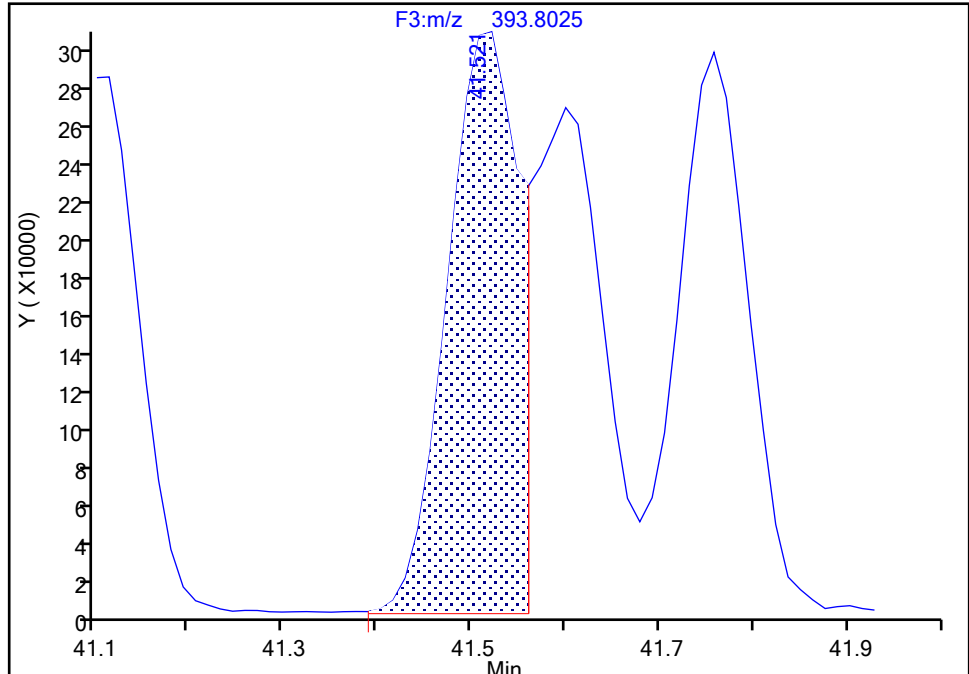
Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

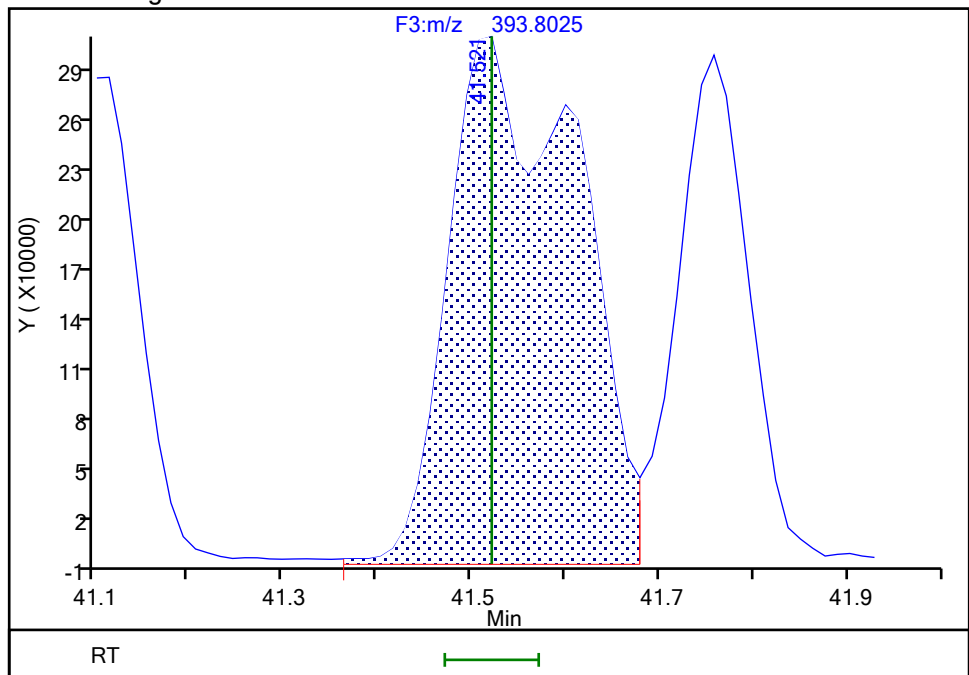
RT: 41.52
Area: 1602288
Amount: 51.328529
Amount Units: pg/ul

Processing Integration Results



RT: 41.52
Area: 2958935
Amount: 95.069849
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:47:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

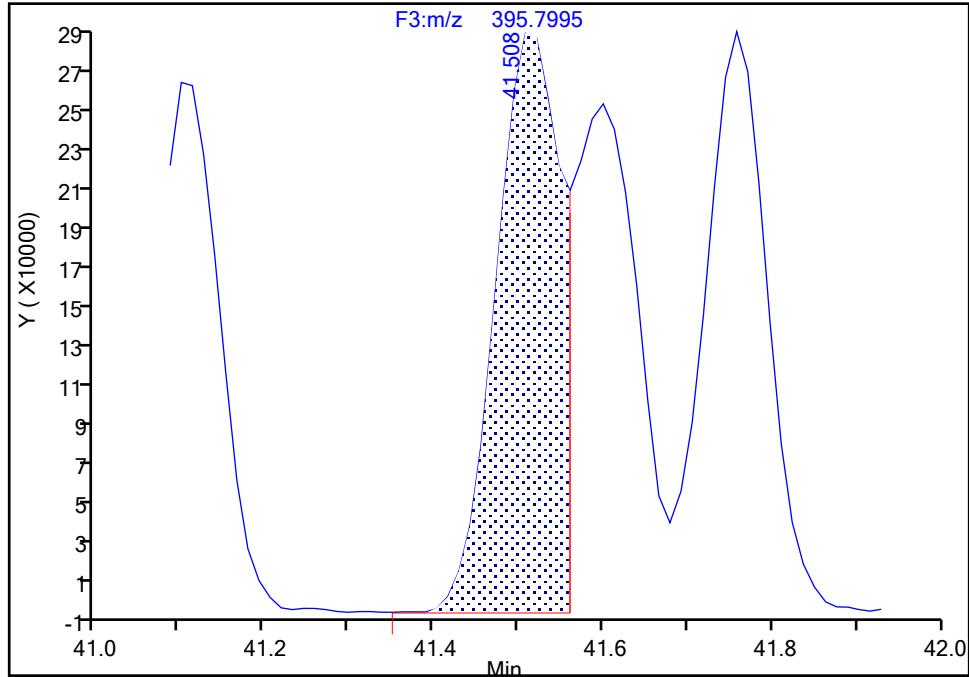
Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d
Injection Date: 12-Jun-2024 11:22:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

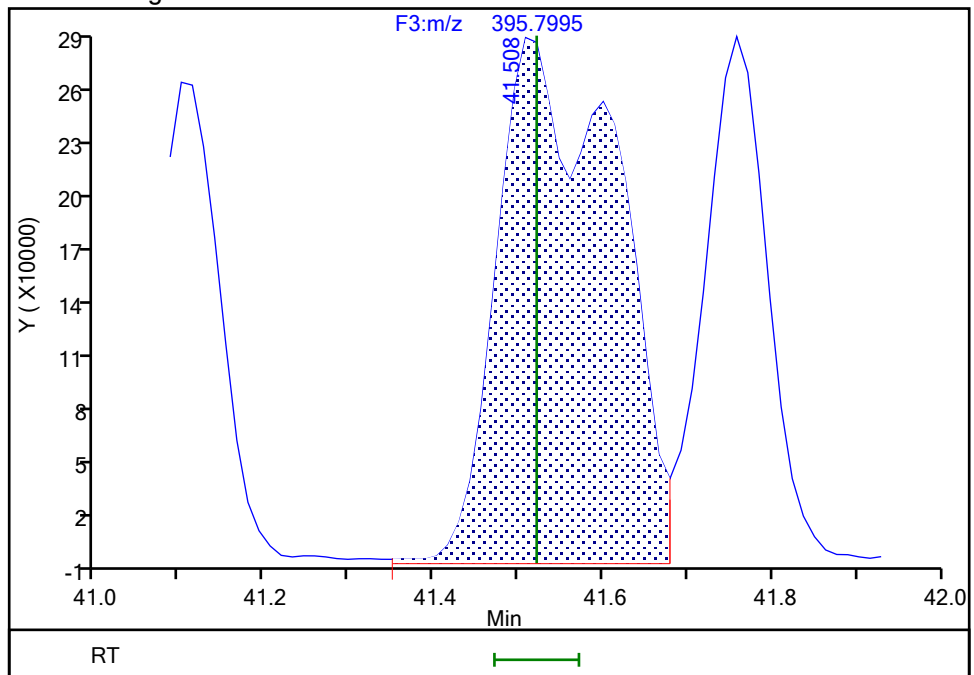
RT: 41.51
Area: 1509412
Amount: 51.328529
Amount Units: pg/ul

Processing Integration Results



RT: 41.51
Area: 2804504
Amount: 95.069849
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 12-Jun-2024 12:47:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

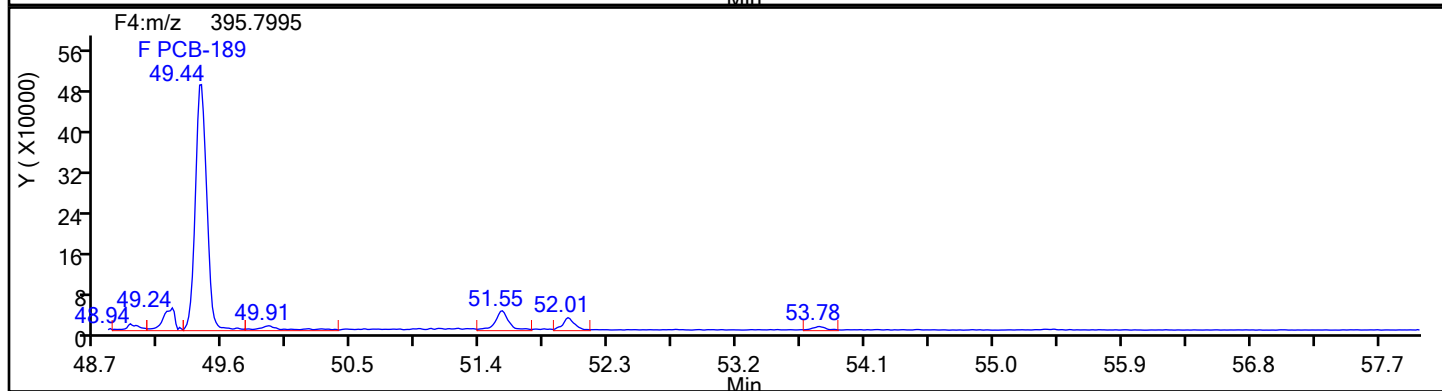
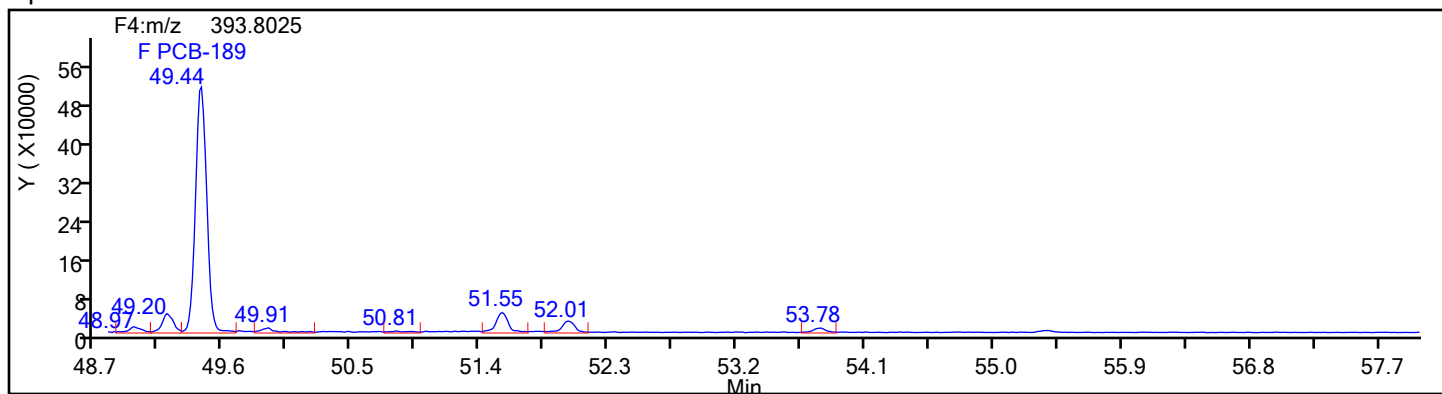
Worklist#: 87571

Sample Line#: 1

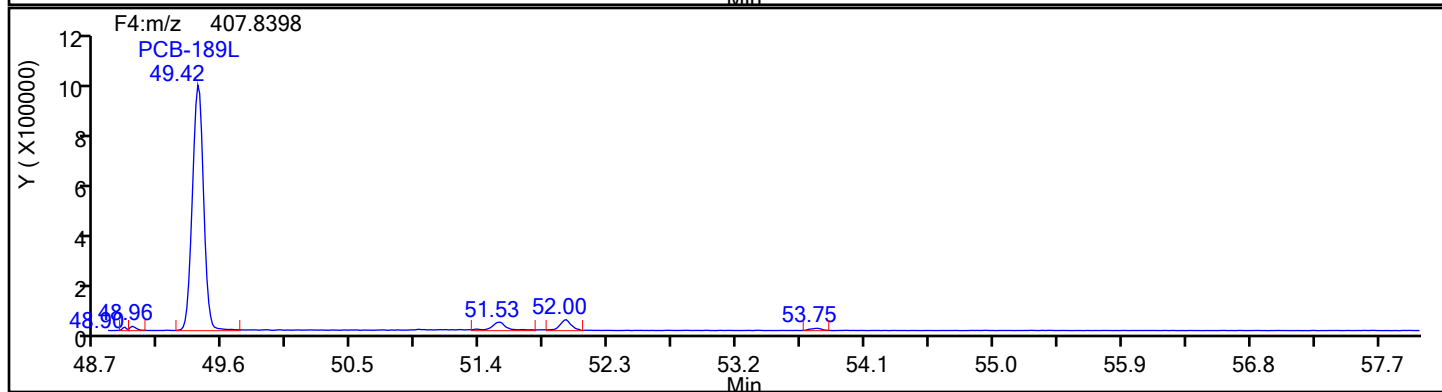
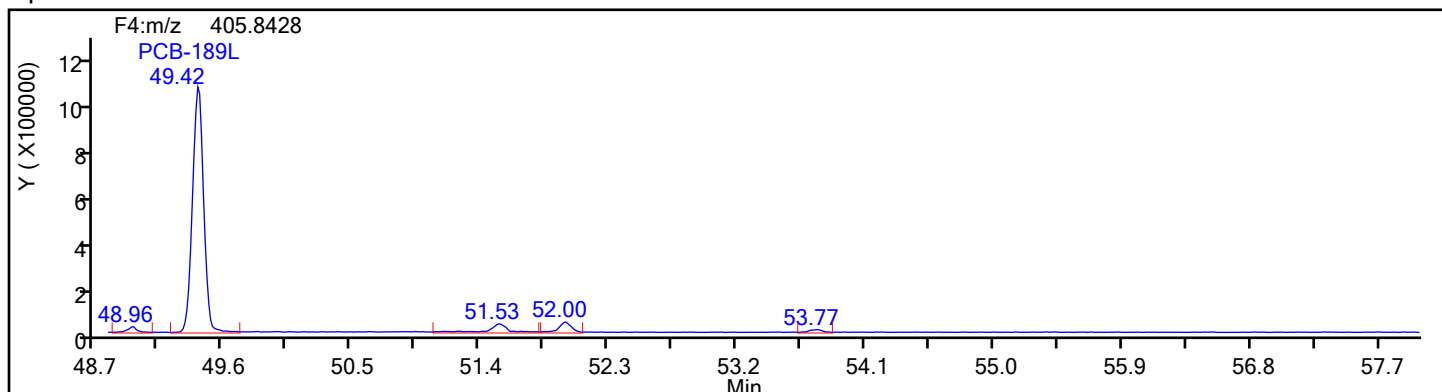
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

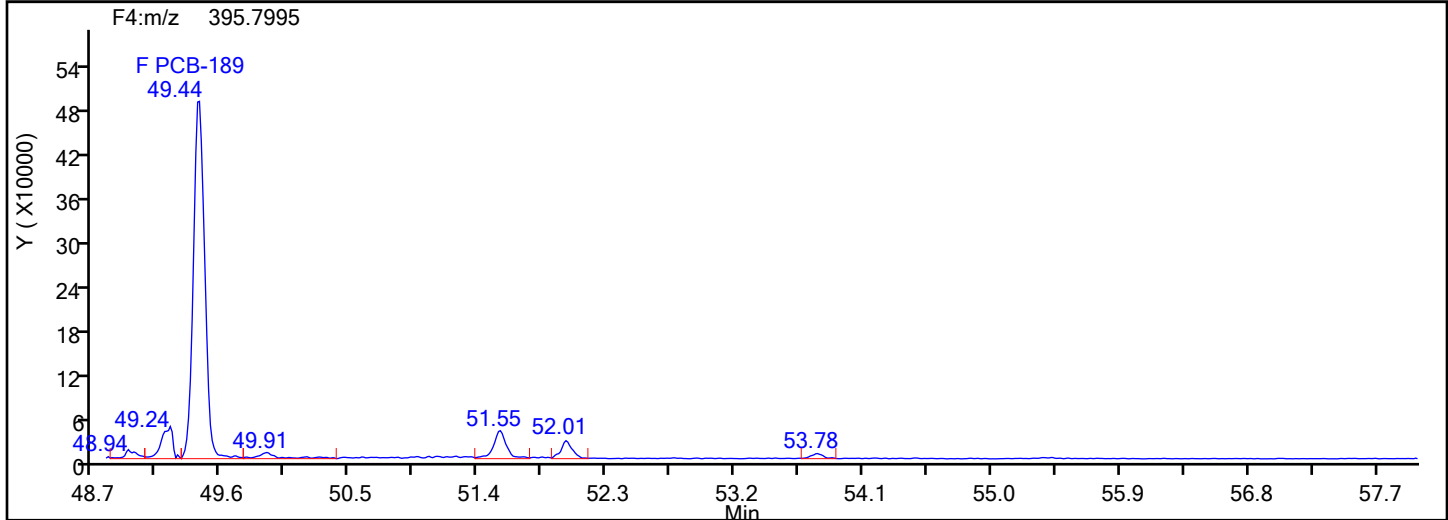
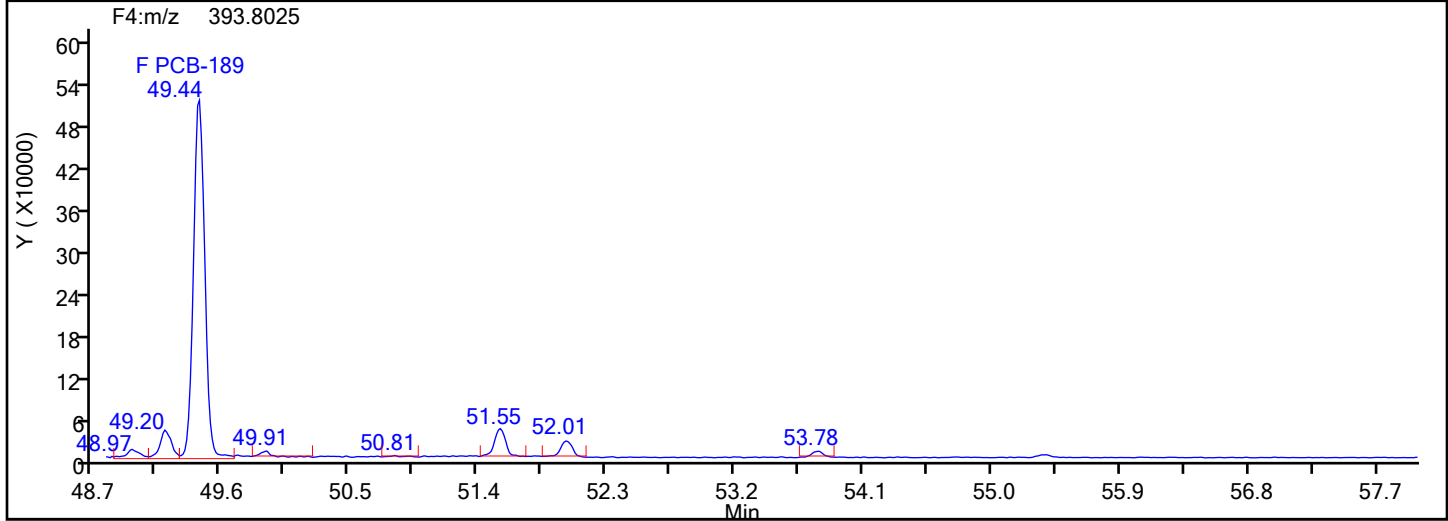
Worklist#: 87571

Sample Line#: 1

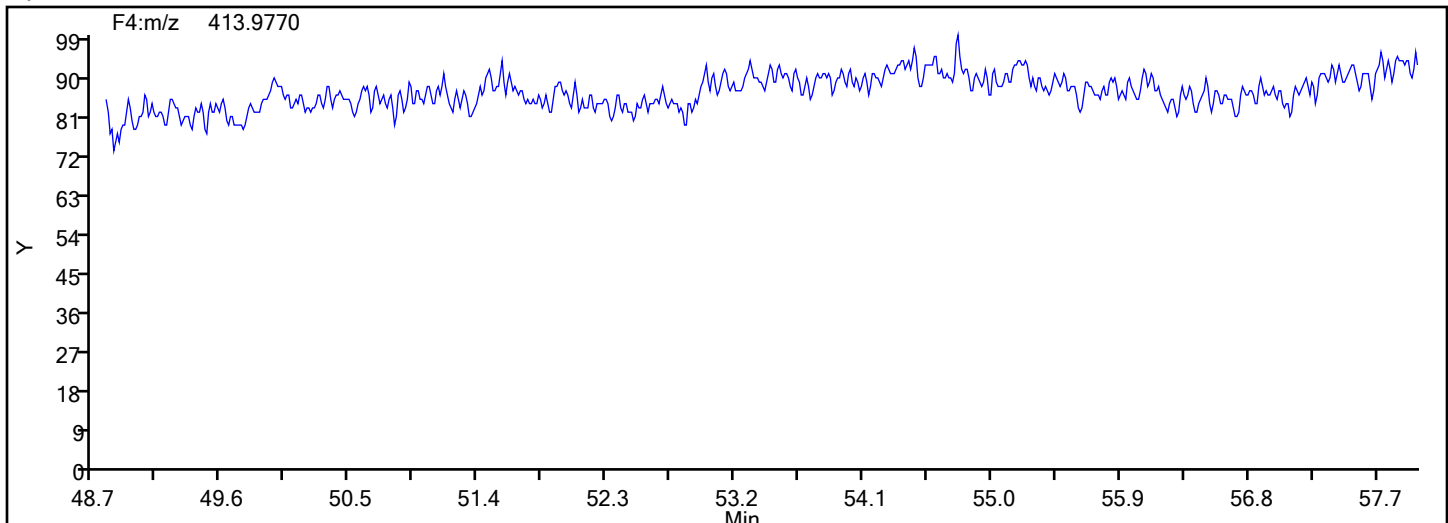
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

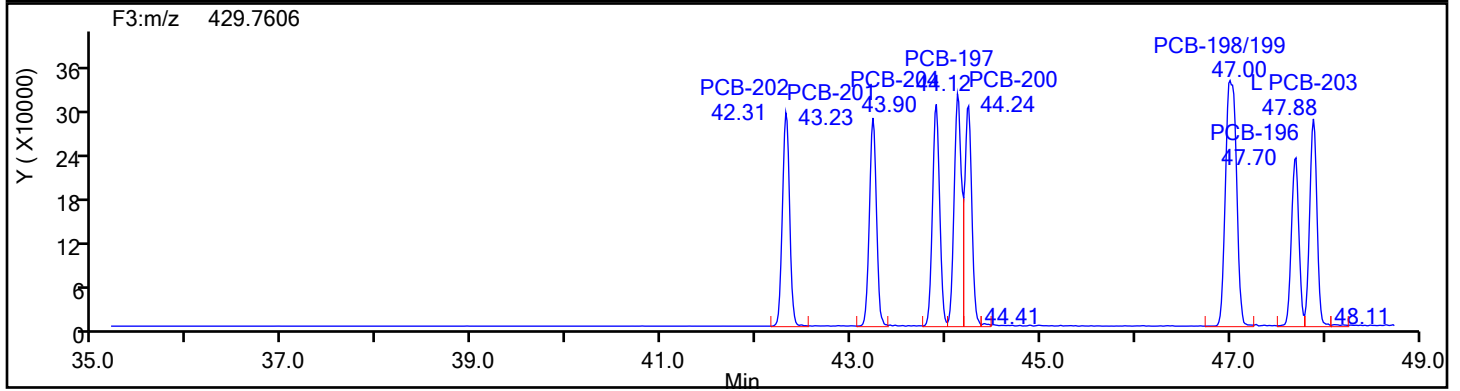
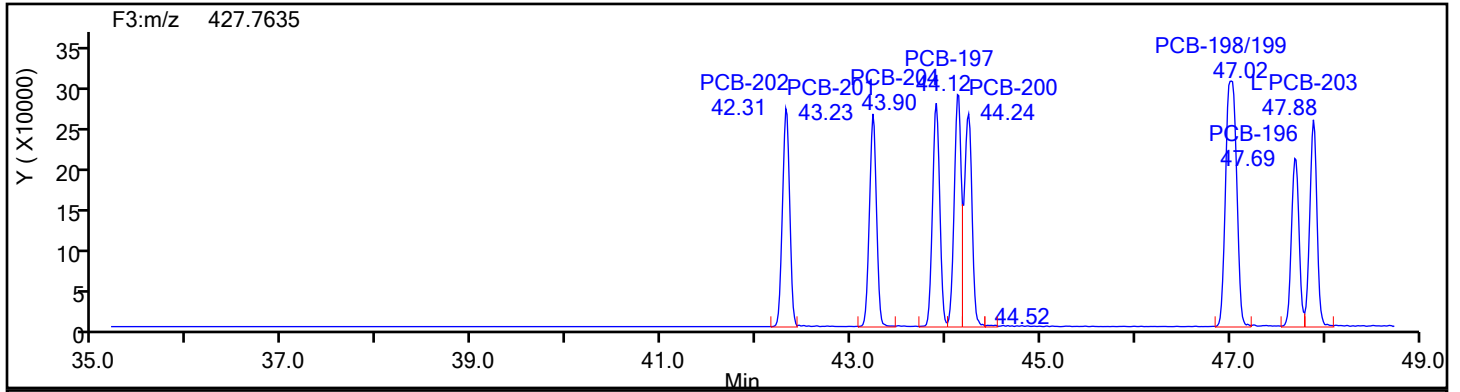
Worklist#: 87571

Sample Line#: 1

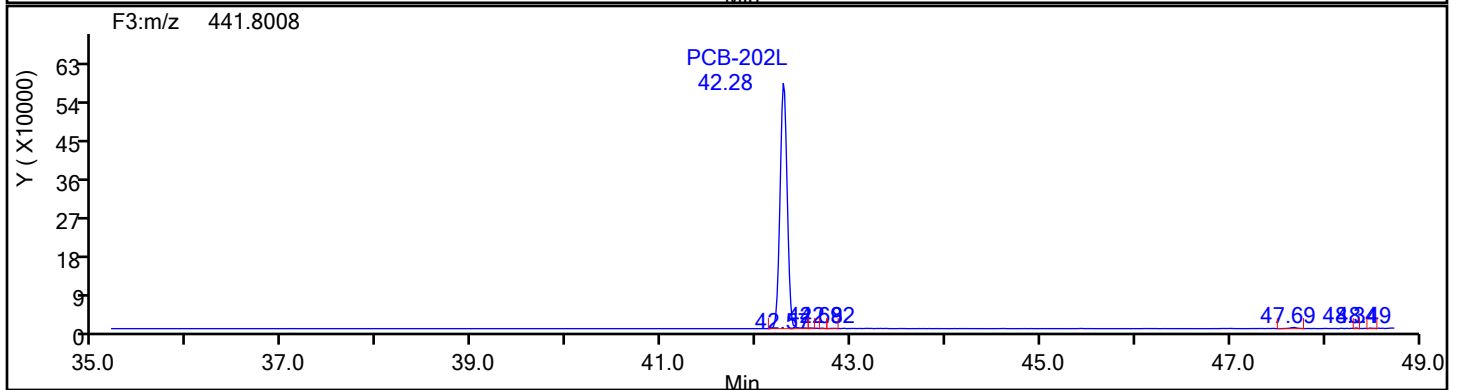
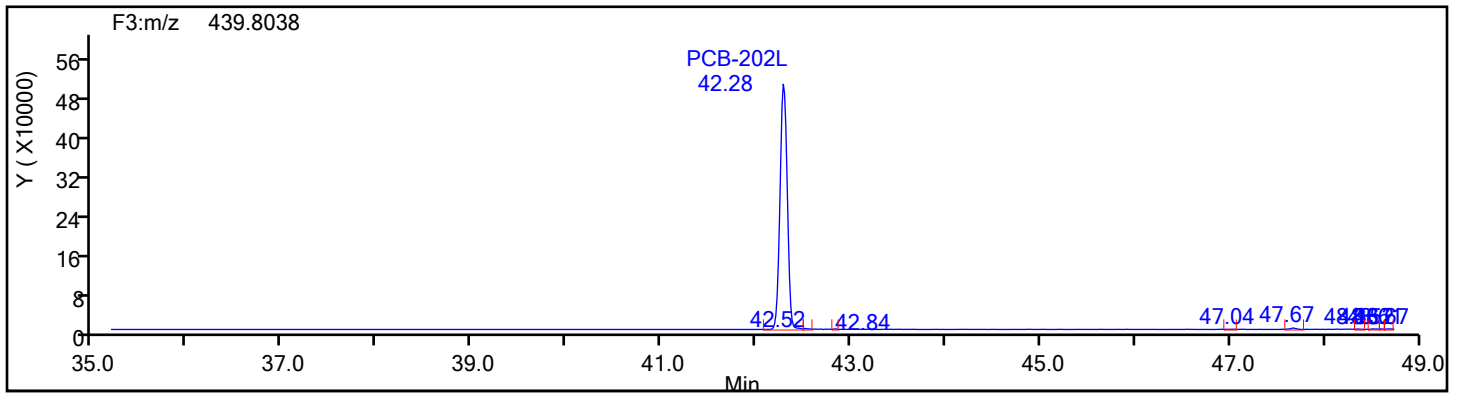
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

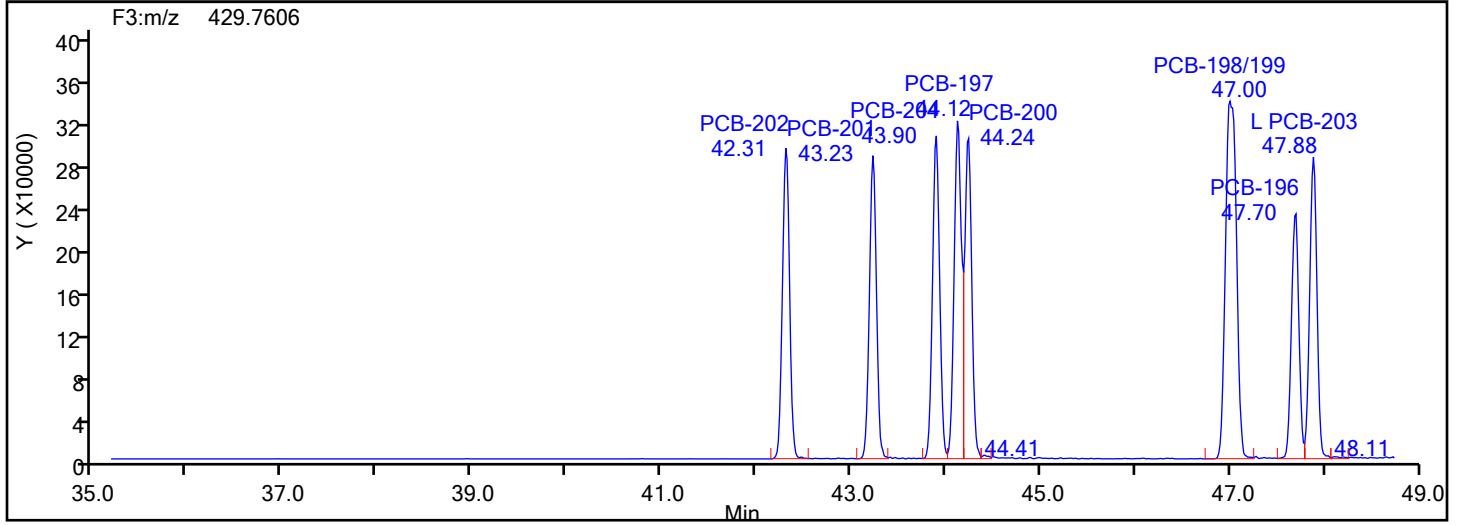
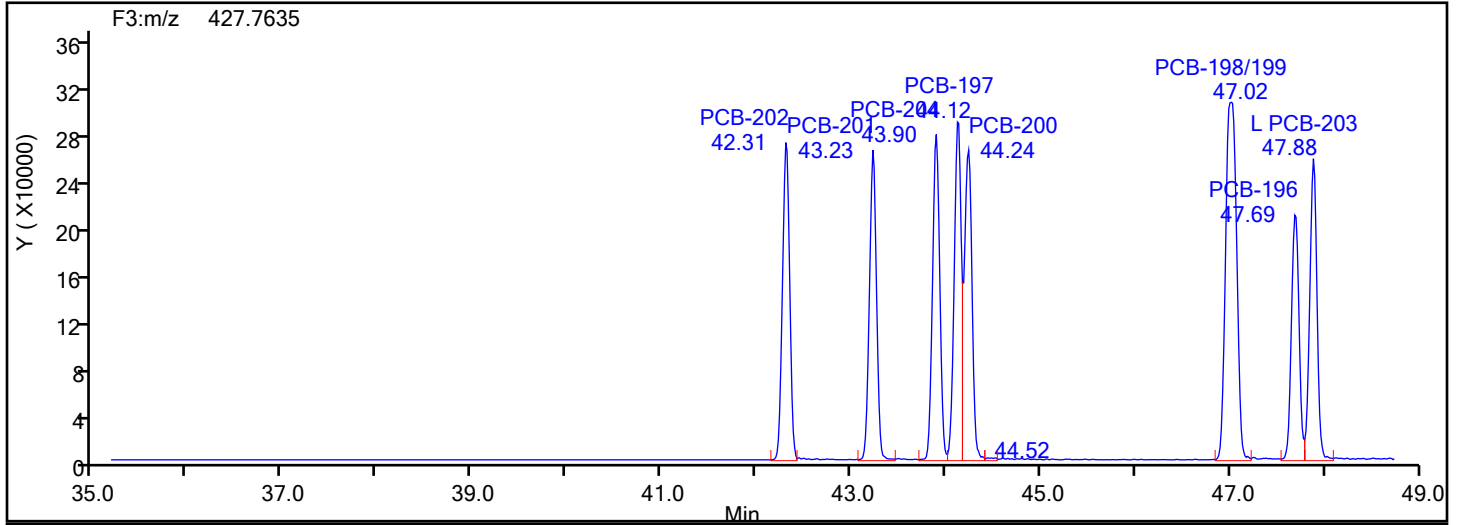
Worklist#: 87571

Sample Line#: 1

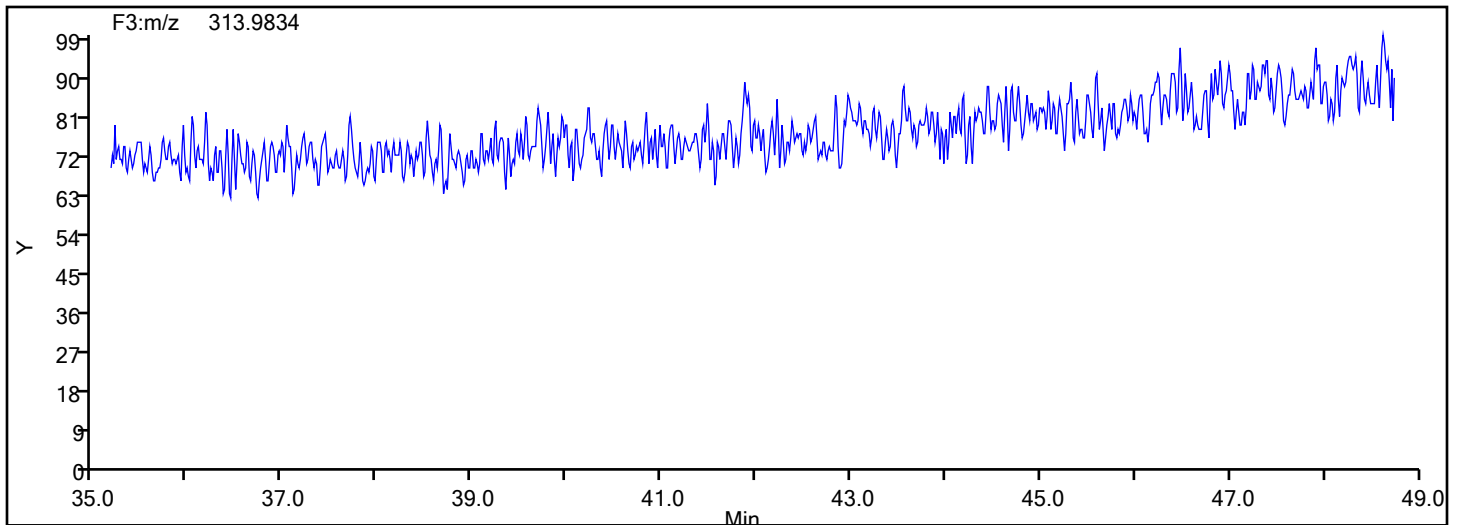
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

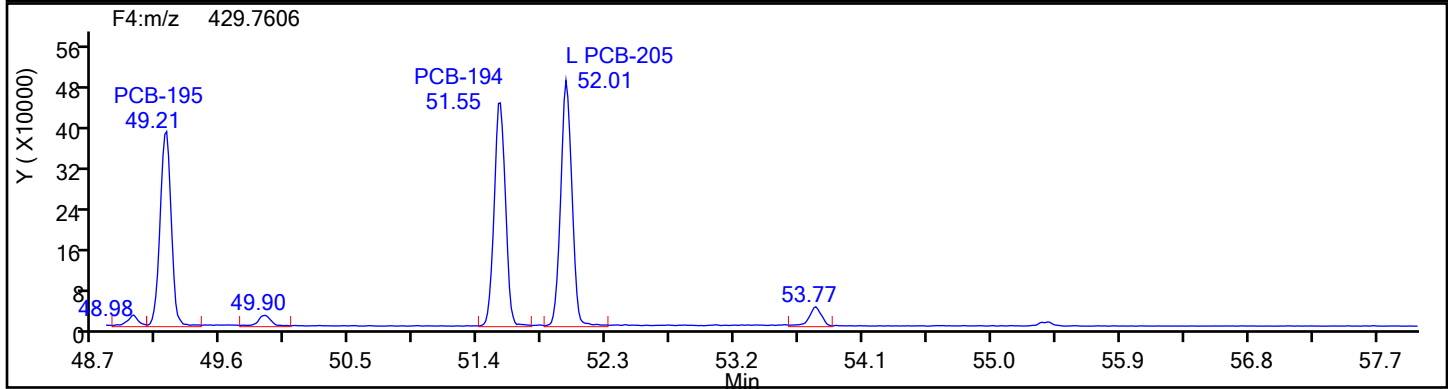
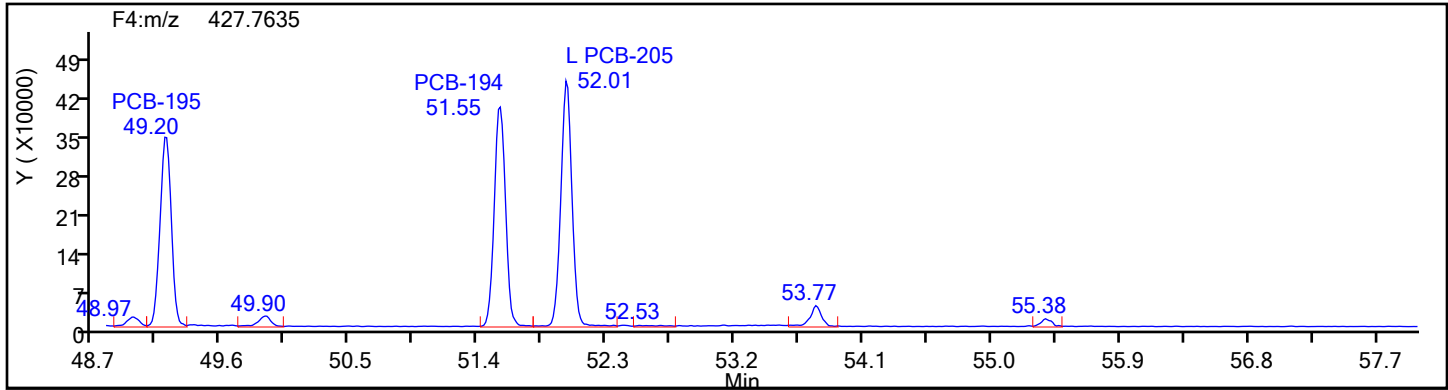
Worklist#: 87571

Sample Line#: 1

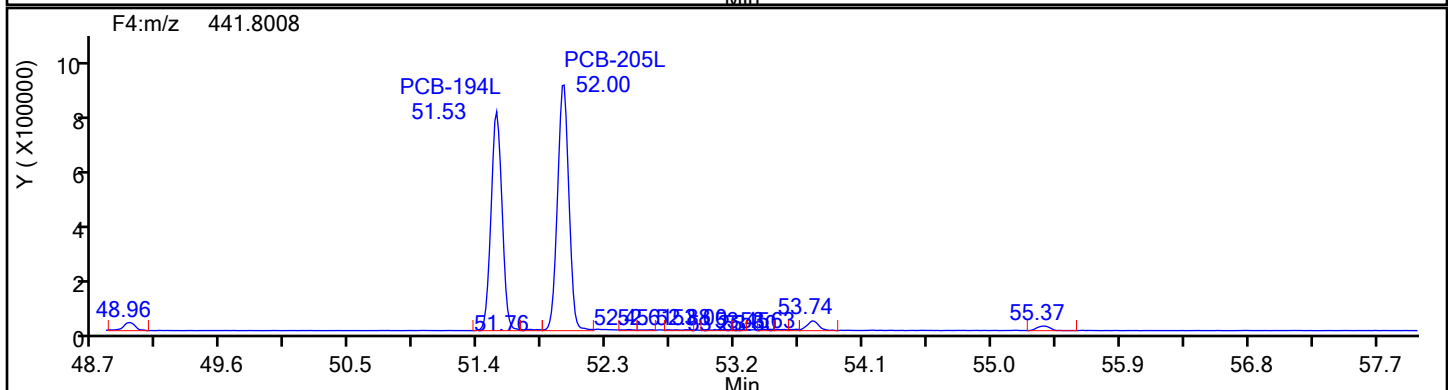
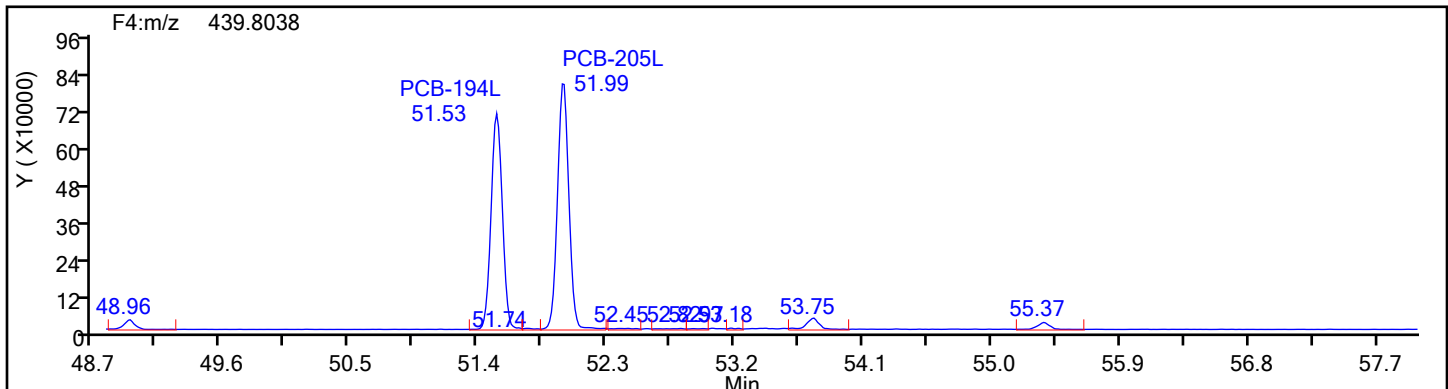
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

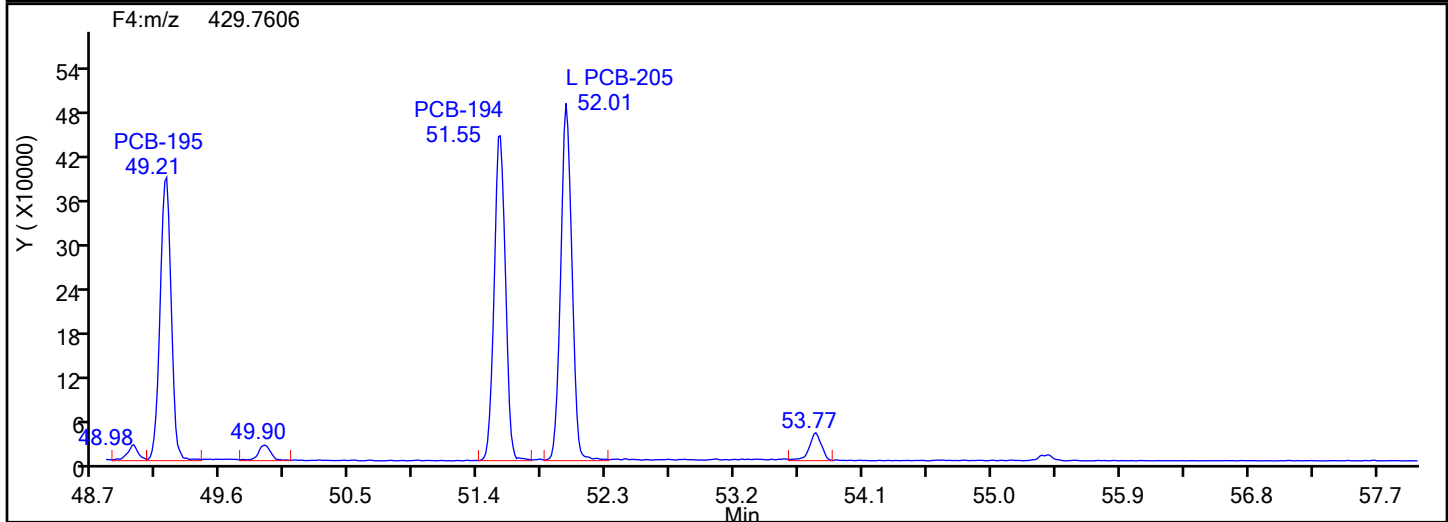
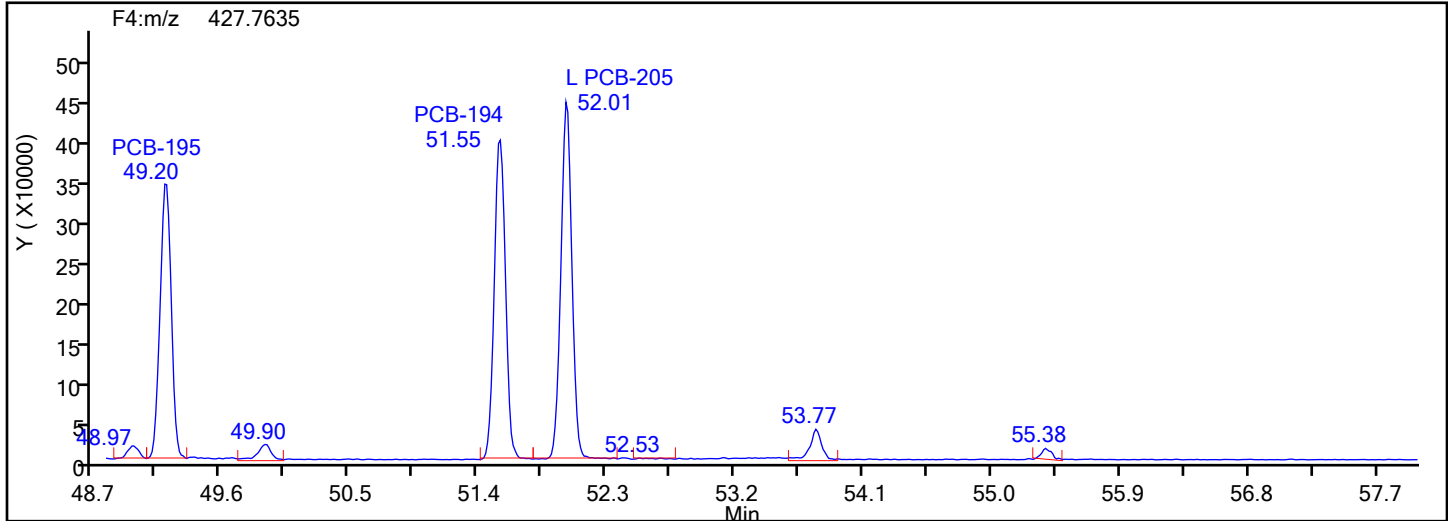
Worklist#: 87571

Sample Line#: 1

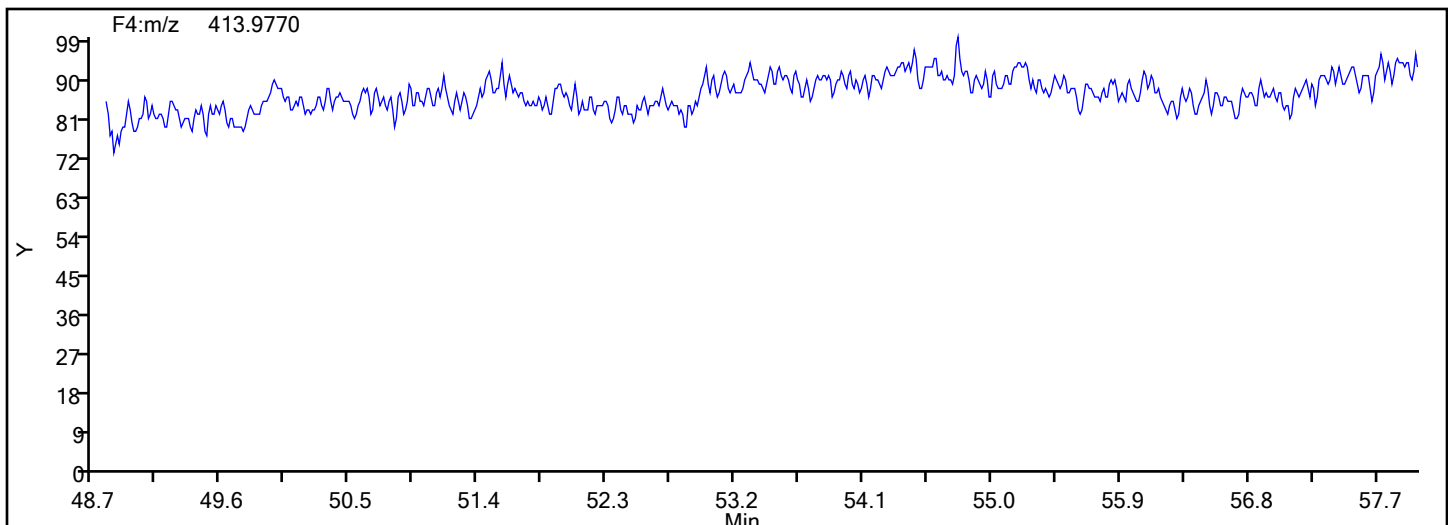
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

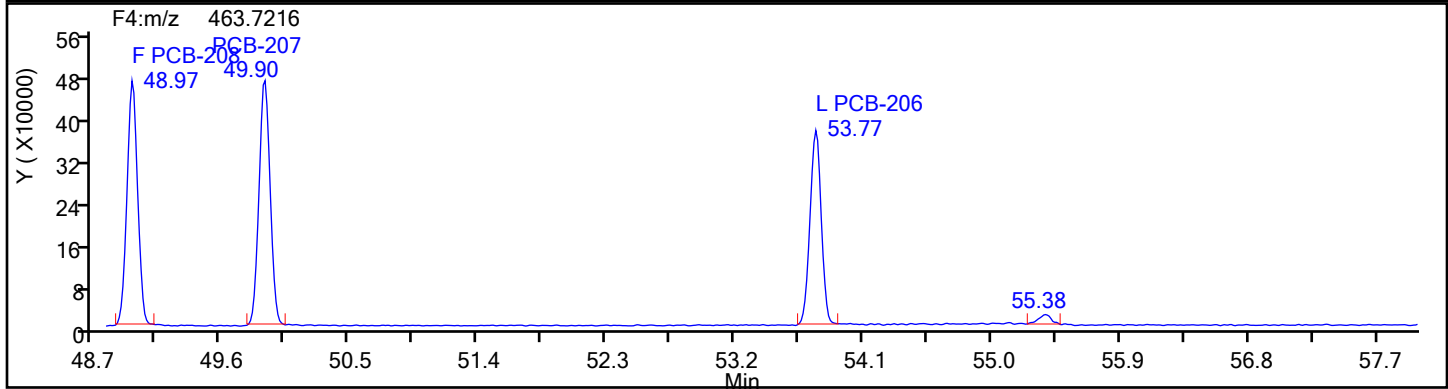
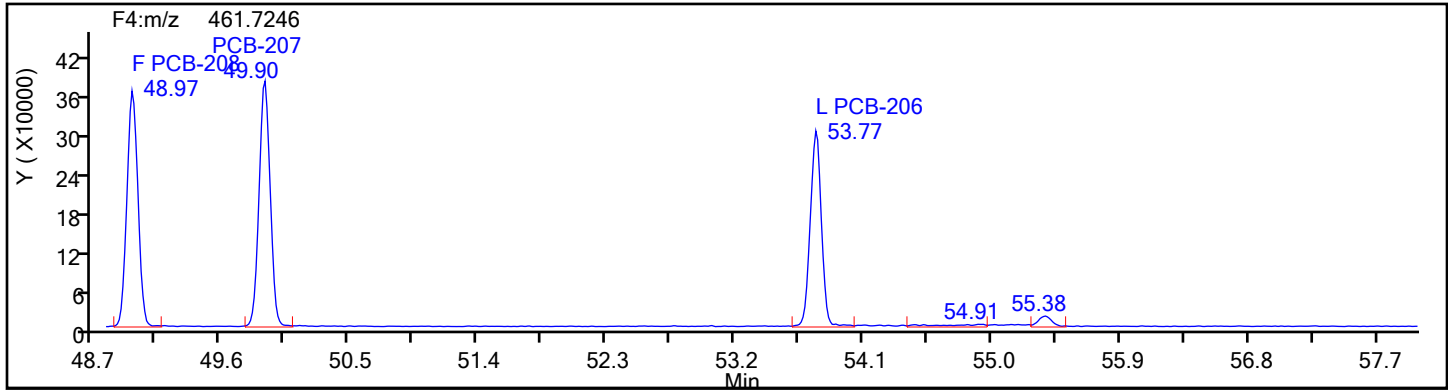
Worklist#: 87571

Sample Line#: 1

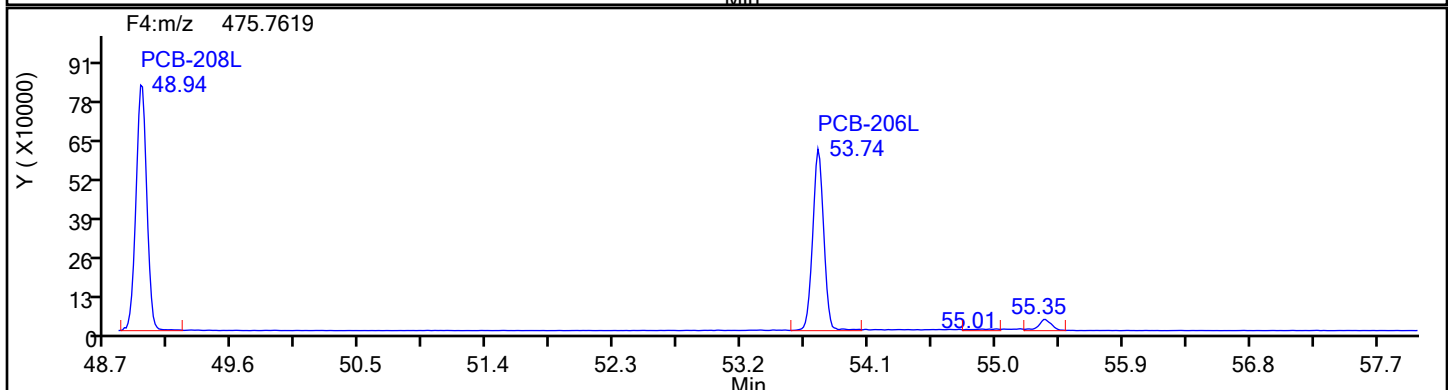
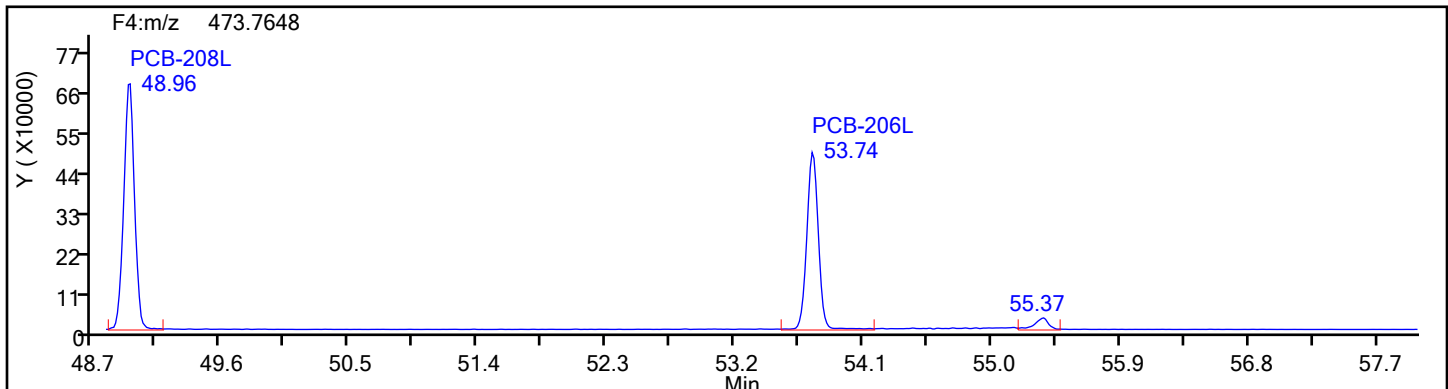
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

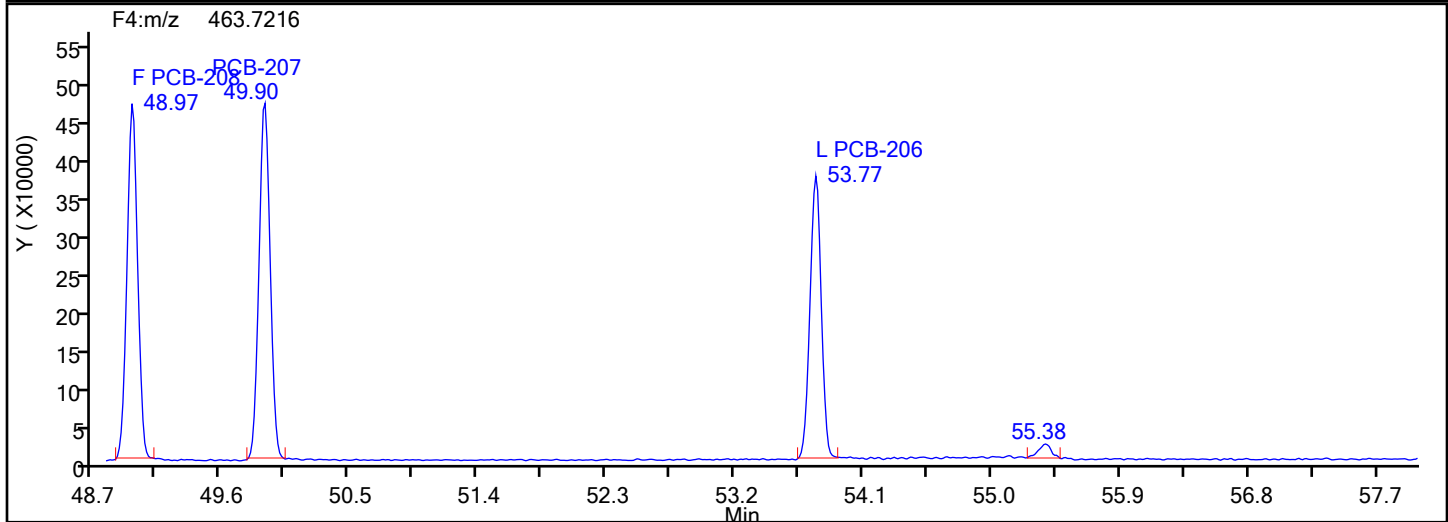
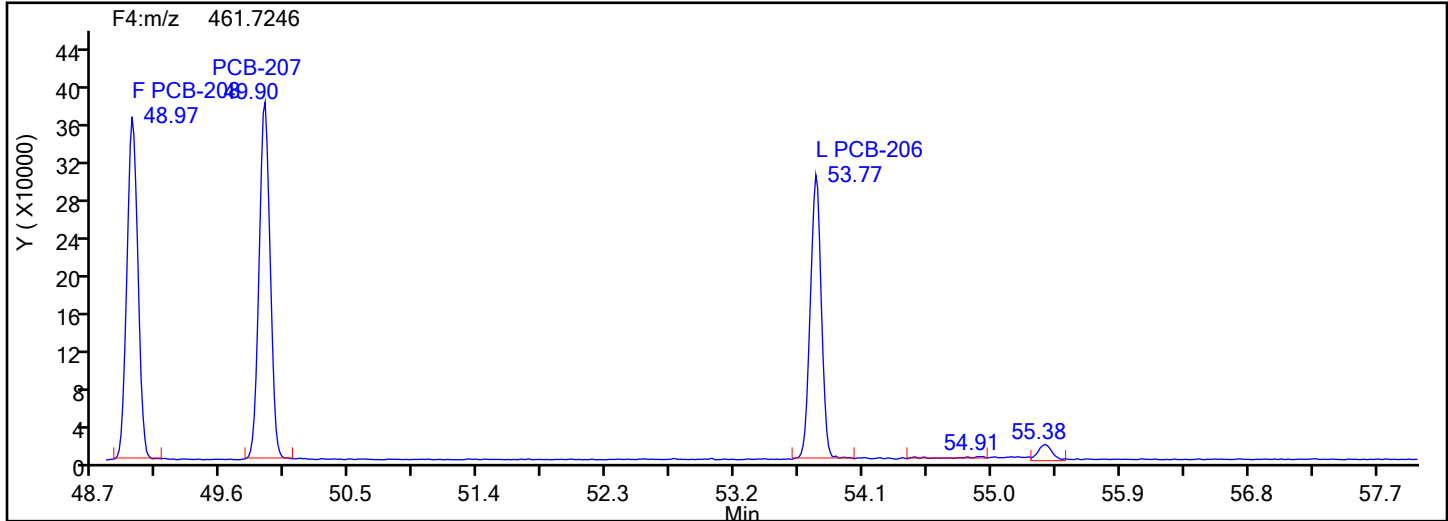
Worklist#: 87571

Sample Line#: 1

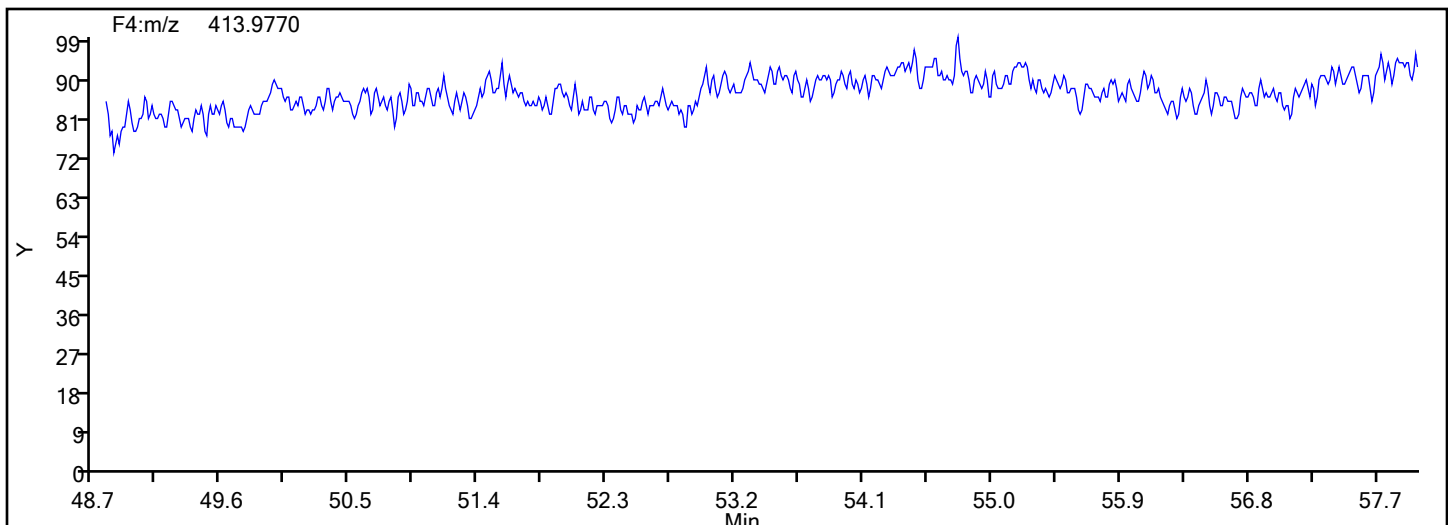
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

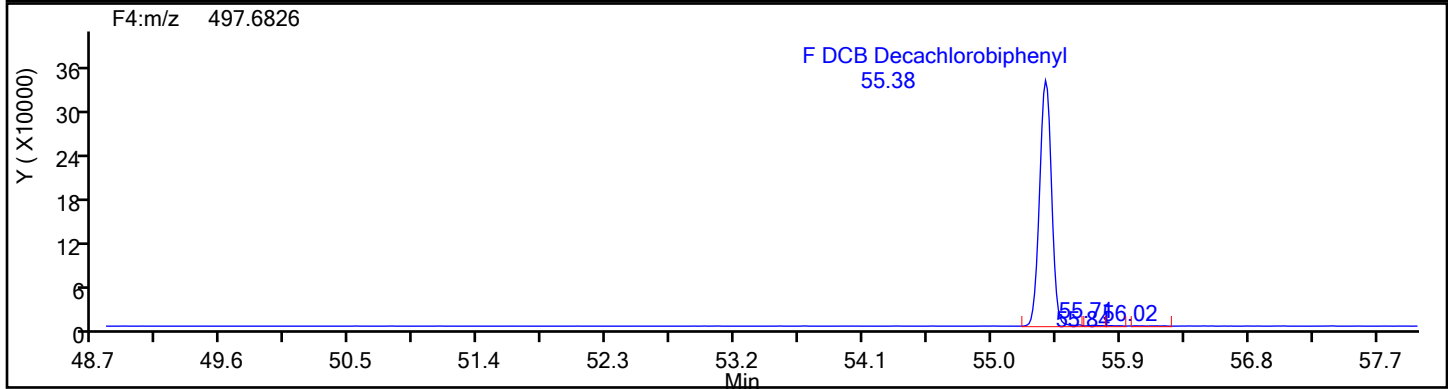
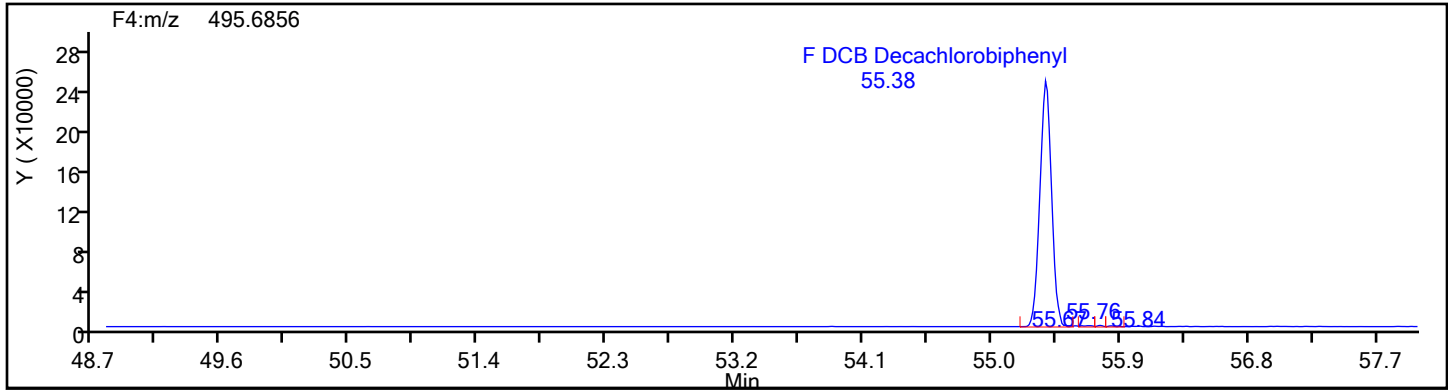
Worklist#: 87571

Sample Line#: 1

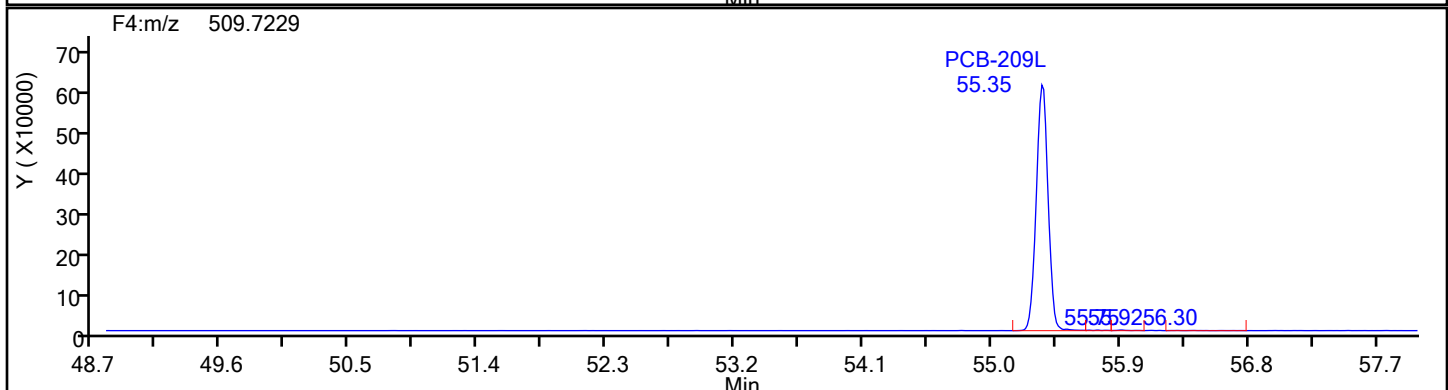
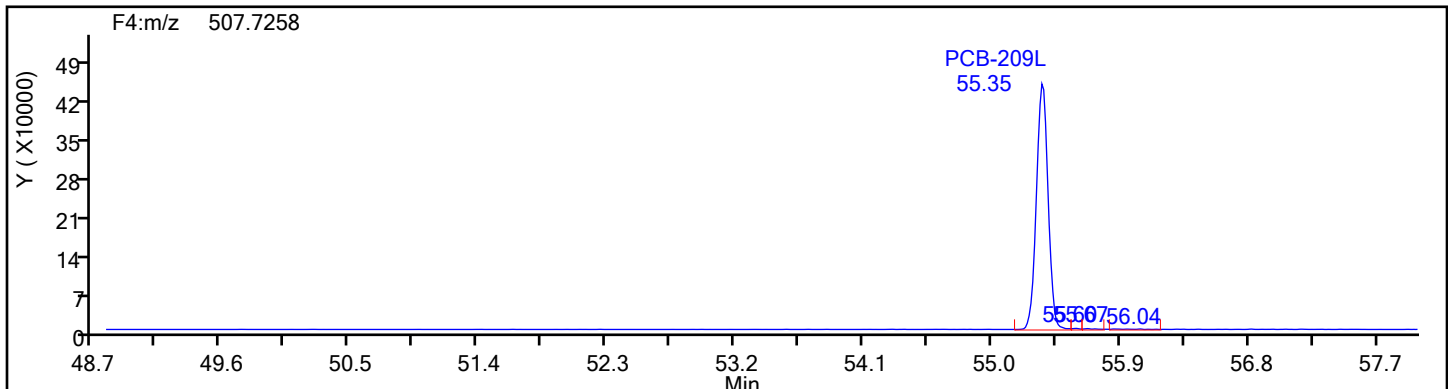
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240612-33049.b\d2240612c1a.d

Injection Date: 12-Jun-2024 11:22:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

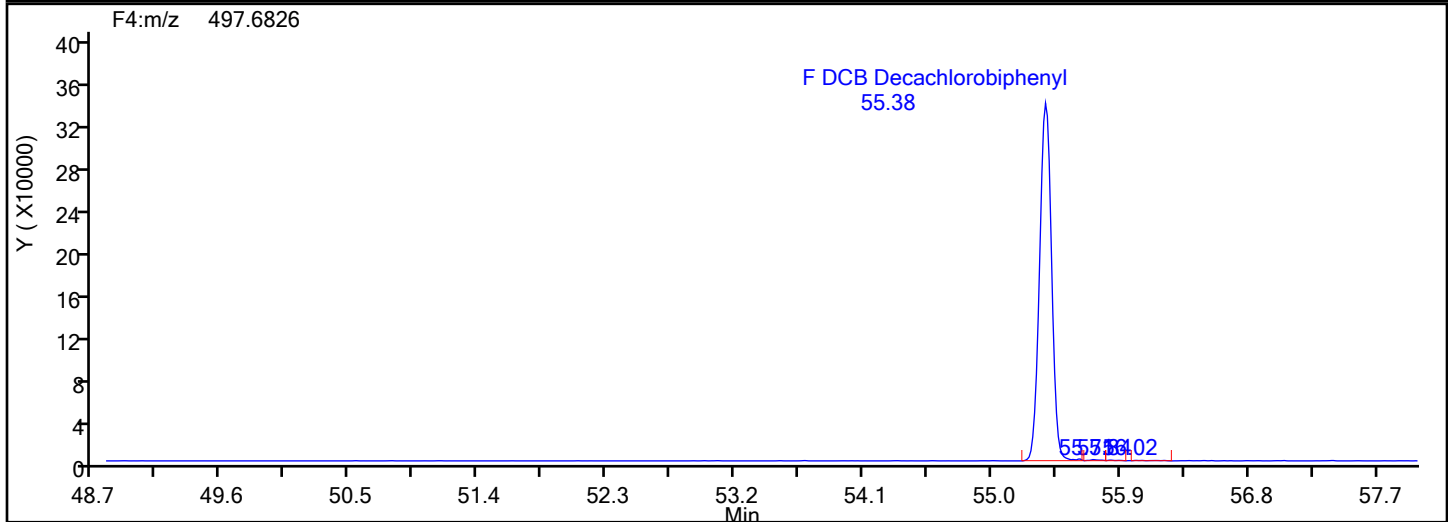
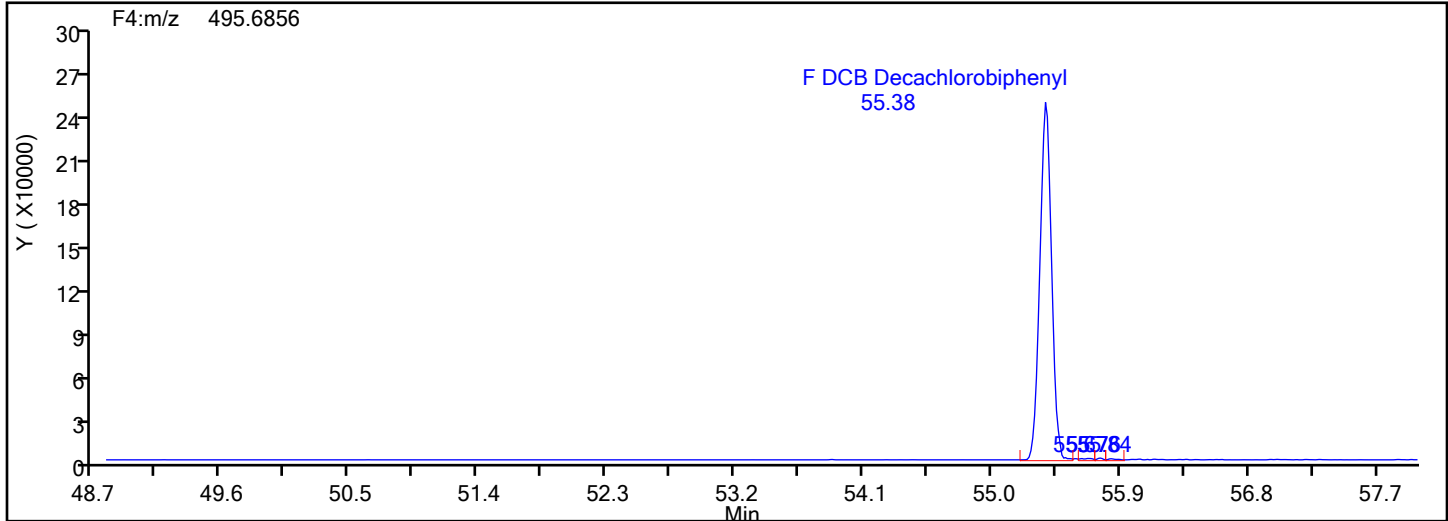
Worklist#: 87571

Sample Line#: 1

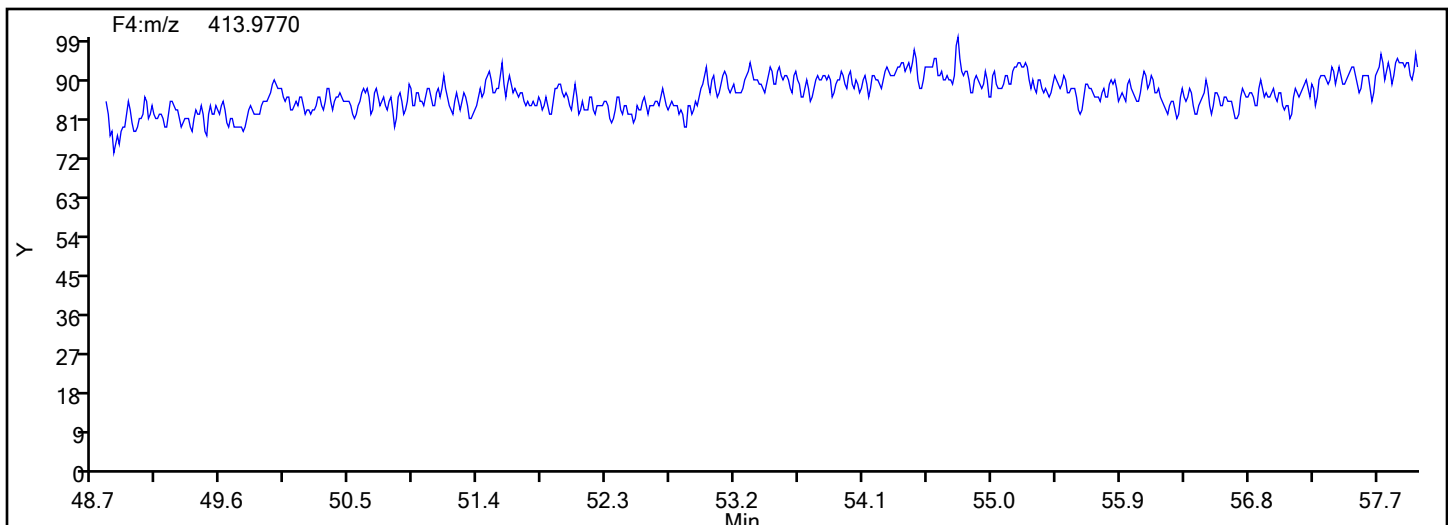
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 140-87206/17-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>mb140-87206-17-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/11/2024 15:03</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	ND		0.600	0.132	0.00951
37680-65-2	PCB-18	0.01359	J C	0.600	0.285	0.00201
7012-37-5	PCB-28	0.03178	J C20	0.600	0.252	0.00382
41464-39-5	PCB-44	ND	C	0.900	0.390	0.0303
35693-99-3	PCB-52	ND		0.300	0.132	0.0321
32598-10-0	PCB-66	ND		0.300	0.120	0.0234
32598-13-3	PCB-77	ND		0.300	0.126	0.0265
70362-50-4	PCB-81	ND		0.300	0.0960	0.0281
37680-73-2	PCB-101	ND	C90	0.900	0.390	0.00651
32598-14-4	PCB-105	ND		0.300	0.102	0.00773
74472-37-0	PCB-114	ND		0.300	0.165	0.00820
31508-00-6	PCB-118	0.007617	J q	0.300	0.183	0.00702
65510-44-3	PCB-123	ND		0.300	0.171	0.00834
57465-28-8	PCB-126	ND		0.300	0.123	0.00862
38380-07-3	PCB-128	ND	C	0.600	0.204	0.00553
35065-28-2	PCB-138	ND	C129	1.20	0.510	0.00575
35065-27-1	PCB-153	0.006756	J q C	0.600	0.249	0.00497
38380-08-4	PCB-156	ND	C	0.600	0.255	0.00610
69782-90-7	PCB-157	ND	C156	0.600	0.255	0.00610
52663-72-6	PCB-167	ND		0.300	0.180	0.00415
32774-16-6	PCB-169	0.009039	J q	0.300	0.123	0.00383
35065-30-6	PCB-170	ND		0.300	0.132	0.000254
35065-29-3	PCB-180	ND	C	0.600	0.204	0.000212
52663-68-0	PCB-187	ND		0.300	0.126	0.000224
39635-31-9	PCB-189	ND		0.300	0.147	0.00521
52663-78-2	PCB-195	ND		0.300	0.159	0.00151
40186-72-9	PCB-206	ND		0.300	0.171	0.0431
2051-24-3	PCB-209	0.002068	J q	0.300	0.138	0.00102

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 140-87206/17-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>mb140-87206-17-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/11/2024 15:03</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	72		20-145
208263-77-8	PCB-3L	71		20-145
234432-86-1	PCB-4L	73		20-145
208263-67-6	PCB-15L	73		20-145
234432-87-2	PCB-19L	68		20-145
208263-79-0	PCB-37L	76		20-145
234432-88-3	PCB-54L	73		20-145
105600-23-5	PCB-77L	83		20-145
208461-24-9	PCB-81L	80		20-145
234432-89-4	PCB-104L	79		20-145
208263-62-1	PCB-105L	86		20-145
208263-63-2	PCB-114L	83		20-145
104130-40-7	PCB-118L	84		20-145
208263-64-3	PCB-123L	83		20-145
208263-65-4	PCB-126L	88		20-145
234432-90-7	PCB-155L	85		20-145
208263-68-7	PCB-156L	88	C	20-145
235416-30-5	PCB-157L	88	C156	20-145
208263-69-8	PCB-167L	86		20-145
208263-70-1	PCB-169L	92		20-145
160901-80-4	PCB-170L	90		20-145
234432-91-8	PCB-188L	82		20-145
208263-73-4	PCB-189L	86		20-145
105600-26-8	PCB-202L	86		20-145
234446-64-1	PCB-205L	90		20-145
208263-75-6	PCB-206L	100		20-145
234432-92-9	PCB-208L	95		20-145
105600-27-9	PCB-209L	107		20-145

Lab Name:	Eurofins Knoxville	Job No.:	140-36689-1
SDG No.:			
Client Sample ID:		Lab Sample ID:	MB 140-87206/17-B
Matrix:	Air	Lab File ID:	mb140-87206-17-b.d
Analysis Method:	23	Date Collected:	
Extract. Method:	Combined Prep	Date Extracted:	05/31/2024 12:09
Sample wt/vol:	1(Sample)	Date Analyzed:	06/11/2024 15:03
Con. Extract Vol.:	30 (mL)	Dilution Factor:	1
Injection Volume:	1 (uL)	GC Column:	SPB-Octyl ID: 0.25 (mm)
% Moisture:		GPC Cleanup: (Y/N)	N
% Solids:		Level:	(low/med) Low
Cleanup Factor:		Units:	ng/Sample
Analysis Batch No.:	87502	Instrument ID:	Excalibur D2D DFS
Preparation Batch No.:	87206		

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	74		20-130
235416-29-2	PCB-111L	82		20-130
232919-67-4	PCB-178L	82		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d
Lims ID: MB 140-87206/17-B
Client ID:
Sample Type: MB
Inject. Date: 11-Jun-2024 15:03:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-008
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 08:35:49 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 08:35:49

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					0.0382	0.0211	0.0141	0.0141		RQ
D PCB-1L	11:32	6378923	3.13	1.6108	72.5	72.5	0.2928	0.2928	72.49	
D PCB-3L	13:41	6185517	3.13	1.5891	71.3	71.3	0.2968	0.2968	71.25	
PCB-1	11:33	1644	3.13	1.2191	0.0382	0.0211	0.0125	0.0125		RQM
PCB-2	13:34						0.0143	0.0143		
PCB-3	13:44						0.0155	0.0155		
S Total Dichlorobiphenyls					1.360	0.4501	0.0366	0.0366		RQ
D PCB-4L	13:57	2596004	1.63	0.6475	73.4	73.4	0.1807	0.1807	73.39	
* PCB-9L	15:54	5462805	1.62		100.0	100.0				
\$ PCB-8L	16:46						0.1612	0.1612		
D PCB-15L	19:49	4301976	1.65	1.0789	73.0	73.0	0.1084	0.1084	72.99	
PCB-4	14:00						0.0426	0.0426		
PCB-10	14:10						0.0383	0.0383		
PCB-9	15:57						0.0354	0.0354		
PCB-7	16:07						0.0356	0.0356		
PCB-6	16:22						0.0327	0.0327		
PCB-5	16:40						0.0376	0.0376		
PCB-8	16:47						0.0317	0.0317		
PCB-14	18:24						0.0359	0.0359		
PCB-11	19:16	20103	1.56	1.2951	1.360	0.4501	0.0389	0.0389		RQMa
PCB-12	19:32						0.0377	0.0377		
PCB-13 (C12)	19:32						0.0377	0.0377		
PCB-15	19:51						0.0362	0.0362		
S Total Trichlorobiphenyls					0.3495	0.2899	0.0113	0.0113		RQ
D PCB-19L	17:02	1662219	1.08	0.6285	67.6	67.6	0.6457	0.6457	67.62	
* PCB-32L	20:17	3910930	1.14		100.0	100.0				
* PCB-31L	22:33	9103338	1.07		100.0	100.0				
\$ PCB-28L	22:49	7036548	1.06	1.0494	73.7	73.7	0.1997	0.1997	73.66	
D PCB-37L	26:50	6092430	1.06	0.8749	76.5	76.5	0.2395	0.2395	76.49	
PCB-19	17:05						0.009250	0.009250		
PCB-18	18:53	1329	1.12	1.7652	0.0453	0.0453	0.006712	0.006712		M
PCB-30 (C18)	18:53	1329	1.12	1.7652	0.0453	0.0453	0.006712	0.006712		M
PCB-17	19:21						0.009532	0.009532		
PCB-27	19:34						0.006465	0.006465		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:42						0.007063	0.007063		
PCB-16	19:49						0.0105	0.0105		
PCB-32	20:19	2203	1.04	1.8324	0.1140	0.0723	0.006466	0.006466		RQ
PCB-34	21:35						0.0132	0.0132		
PCB-23	21:43						0.0138	0.0138		
PCB-26	22:02						0.0133	0.0133		
PCB-29 (C26)	22:02						0.0133	0.0133		
PCB-25	22:16						0.0117	0.0117		
PCB-31	22:35	3110	1.04	1.1532	0.0541	0.0443	0.0129	0.0129		RQM
PCB-20	22:51	7563	1.16	1.1718	0.1059	0.1059	0.0127	0.0127		M
PCB-28 (C20)	22:51	7563	1.16	1.1718	0.1059	0.1059	0.0127	0.0127		M
PCB-21	23:03						0.0139	0.0139		
PCB-33 (C21)	23:03						0.0139	0.0139		
PCB-22	23:29	1608	1.04	1.1932	0.0302	0.0221	0.0125	0.0125		RQM
PCB-36	25:04						0.0135	0.0135		
PCB-39	25:25						0.0129	0.0129		
PCB-38	26:00						0.0138	0.0138		
PCB-35	26:27						0.0132	0.0132		
PCB-37	26:52						0.0130	0.0130		
S Total Tetrachlorobiphenyls					0.1568	0.0681	0.0893	0.0893		RQ
D PCB-54L	20:07	1595541	0.80	0.5562	73.3	73.3	0.0676	0.0676	73.35	
* PCB-52L	24:40	4835086	0.80		100.0	100.0				
\$ PCB-79L	32:35						0.1570	0.1570		
D PCB-81L	33:34	4820776	0.80	1.2470	80.0	80.0	0.1116	0.1116	79.96	
D PCB-77L	34:08	5298000	0.80	1.3212	82.9	82.9	0.1053	0.1053	82.94	
PCB-54	20:10						0.0102	0.0102		
PCB-50	22:19						0.1146	0.1146		
PCB-53 (C50)	22:19						0.1146	0.1146		
PCB-45	23:03						0.1190	0.1190		
PCB-51 (C45)	23:03						0.1190	0.1190		
PCB-46	23:18						0.1385	0.1385		
PCB-52	24:42						0.1069	0.1069		
PCB-43	24:51						0.0951	0.0951		
PCB-73 (C43)	24:51						0.0951	0.0951		
PCB-49	25:08						0.0920	0.0920		
PCB-69 (C49)	25:08						0.0920	0.0920		
PCB-48	25:28						0.1171	0.1171		
PCB-44	25:43						0.1010	0.1010		
PCB-47 (C44)	25:43						0.1010	0.1010		
PCB-65 (C44)	25:43						0.1010	0.1010		
PCB-59	26:01						0.0829	0.0829		
PCB-62 (C59)	26:01						0.0829	0.0829		
PCB-75 (C59)	26:01						0.0829	0.0829		
PCB-42	26:13						0.1214	0.1214		
PCB-40	26:43						0.1109	0.1109		
PCB-41 (C40)	26:43						0.1109	0.1109		
PCB-71 (C40)	26:43						0.1109	0.1109		
PCB-64	26:56						0.0835	0.0835		
PCB-72	27:46						0.0898	0.0898		
PCB-68	28:03						0.0784	0.0784		
PCB-57	28:28						0.0909	0.0909		
PCB-58	28:42						0.0742	0.0742		
PCB-67	28:52						0.0691	0.0691		
PCB-63	29:08						0.0875	0.0875		
PCB-61	29:28						0.0779	0.0779		
PCB-70 (C61)	29:28						0.0779	0.0779		
PCB-74 (C61)	29:28						0.0779	0.0779		
PCB-76 (C61)	29:28						0.0779	0.0779		
PCB-66	29:48						0.0781	0.0781		
PCB-55	29:58						0.0743	0.0743		
PCB-56	30:28						0.0797	0.0797		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:41						0.0875	0.0875		
PCB-80	31:05						0.0742	0.0742		
PCB-79	32:36						0.0684	0.0684		
PCB-78	33:09						0.0846	0.0846		
PCB-81	33:36						0.0937	0.0937		
PCB-77	34:09	3907	0.77	1.0836	0.1568	0.0681	0.0882	0.0882		RQM
S Total Pentachlorobiphenyls					0.0857	0.0347	0.0236	0.0236		RQ
D PCB-104L	25:36	3282957	1.60	1.2161	78.8	78.8	0.0438	0.0438	78.79	
\$ PCB-95L	28:35						0.0722	0.0722		
* PCB-101L	31:31	3426468	1.61		100.0	100.0				
\$ PCB-111L	34:11	3848918	1.60	1.3699	82.0	82.0	0.0389	0.0389	82.00	
D PCB-123L	36:08	4931726	1.58	0.9731	82.6	82.6	1.053	1.053	82.58	
D PCB-118L	36:28	5204167	1.59	1.0102	84.0	84.0	1.014	1.014	83.95	
D PCB-114L	36:59	5039528	1.61	0.9949	82.5	82.5	1.030	1.030	82.55	
D PCB-105L	37:38	5015349	1.62	0.9514	85.9	85.9	1.077	1.077	85.90	
* PCB-127L	39:07	6136581	1.58		100.0	100.0				
D PCB-126L	40:44	5083674	1.59	0.9439	87.8	87.8	1.085	1.085	87.77	
PCB-104	25:38						0.0206	0.0206		
PCB-96	26:01						0.0189	0.0189		
PCB-103	27:56						0.0237	0.0237		
PCB-94	28:10						0.0271	0.0271		
PCB-95	28:36						0.0258	0.0258		
PCB-93	28:49						0.0246	0.0246		
PCB-100 (C93)	28:49						0.0246	0.0246		
PCB-98	28:58						0.0251	0.0251		
PCB-102 (C98)	28:58						0.0251	0.0251		
PCB-88	29:22						0.0259	0.0259		RQU
PCB-91 (C88)	29:22						0.0259	0.0259		RQU
PCB-84	29:41						0.0284	0.0284		
PCB-89	30:10						0.0266	0.0266		
PCB-121	30:34						0.0160	0.0160		
PCB-92	30:57						0.0243	0.0243		
PCB-90	31:31						0.0217	0.0217		
PCB-101 (C90)	31:31						0.0217	0.0217		
PCB-113 (C90)	31:31						0.0217	0.0217		
PCB-83	32:06						0.0247	0.0247		
PCB-99 (C83)	32:06						0.0247	0.0247		
PCB-112	32:13						0.0147	0.0147		
PCB-86	32:36						0.0198	0.0198		
PCB-87 (C86)	32:36						0.0198	0.0198		
PCB-97 (C86)	32:36						0.0198	0.0198		
PCB-109 (C86)	32:36						0.0198	0.0198		
PCB-119 (C86)	32:36						0.0198	0.0198		
PCB-125 (C86)	32:36						0.0198	0.0198		
PCB-85	33:19						0.0199	0.0199		
PCB-116 (C85)	33:19						0.0199	0.0199		
PCB-117 (C85)	33:19						0.0199	0.0199		
PCB-110	33:30	364	1.55	1.1919	0.0343	0.009303	0.0174	0.0174		RQ
PCB-115 (C110)	33:30	364	1.55	1.1919	0.0343	0.009303	0.0174	0.0174		RQ
PCB-82	33:49						0.0250	0.0250		
PCB-111	34:13						0.0171	0.0171		
PCB-120	34:41						0.0140	0.0140		
PCB-108	35:49						0.0262	0.0262		
PCB-124 (C108)	35:49						0.0262	0.0262		
PCB-107	36:03						0.0247	0.0247		
PCB-123	36:10						0.0278	0.0278		
PCB-106	36:17						0.0276	0.0276		
PCB-118	36:30	1593	1.55	1.2055	0.0515	0.0254	0.0234	0.0234		RQM
PCB-122	36:50						0.0313	0.0313		
PCB-114	37:01						0.0273	0.0273		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:40						0.0258	0.0258		
PCB-127	39:09						0.0263	0.0263		
PCB-126	40:45						0.0287	0.0287		
S Total Hexachlorobiphenyls					0.0977	0.0690	0.0144	0.0144		RQ
D PCB-155L	31:16	3144232	1.27	1.0851	84.6	84.6	0.0390	0.0390	84.56	
\$ PCB-153L	38:20	64030	1.24	0.9169	1.676	1.518	0.9883	0.9883		RQ
* PCB-138L	39:35	4228014	1.30		100.0	100.0				
\$ PCB-159L	41:56						1.509	1.509		
D PCB-167L	42:35	4576022	1.30	1.2572	86.1	86.1	0.6373	0.6373	86.09	
D PCB-156L	43:44	8986716	1.28	1.2106	175.6	175.6	0.6618	0.6618	87.79	
D PCB-157L (C156L)	43:44	8986716	1.28	1.2106	175.6	175.6	0.6618	0.6618	87.79	
D PCB-169L	46:57	4835117	1.25	1.2439	91.9	91.9	0.6441	0.6441	91.94	
PCB-155	31:18						0.001970	0.001970		
PCB-152	31:30						0.001881	0.001881		
PCB-150	31:40						0.001837	0.001837		
PCB-136	32:02						0.001840	0.001840		
PCB-145	32:20						0.001921	0.001921		
PCB-148	33:50						0.002448	0.002448		
PCB-135	34:25						0.002565	0.002565		
PCB-151 (C135)	34:25						0.002565	0.002565		
PCB-154	34:41						0.002289	0.002289		
PCB-144	34:59						0.002370	0.002370		
PCB-147	35:20						0.0203	0.0203		
PCB-149 (C147)	35:20						0.0203	0.0203		
PCB-134	35:39						0.0227	0.0227		
PCB-143 (C134)	35:39						0.0227	0.0227		
PCB-139	35:55	658	1.24	0.8769	0.0238	0.0163	0.0207	0.0207		RQM
PCB-140 (C139)	35:55	658	1.24	0.8769	0.0238	0.0163	0.0207	0.0207		RQM
PCB-131	36:09						0.0242	0.0242		
PCB-142	36:18						0.0241	0.0241		
PCB-132	36:37						0.0242	0.0242		
PCB-133	37:07						0.0224	0.0224		
PCB-165	37:31						0.0177	0.0177		
PCB-146	37:46						0.0188	0.0188		
PCB-161	37:54						0.0161	0.0161		
PCB-153	38:23	1133	1.24	1.0938	0.0383	0.0225	0.0166	0.0166		RQ
PCB-168 (C153)	38:23	1133	1.24	1.0938	0.0383	0.0225	0.0166	0.0166		RQ
PCB-141	38:34						0.0207	0.0207		
PCB-130	38:58						0.0257	0.0257		
PCB-137	39:12						0.0233	0.0233		
PCB-164	39:19						0.0175	0.0175		
PCB-129	39:38						0.0192	0.0192		
PCB-138 (C129)	39:38						0.0192	0.0192		
PCB-160 (C129)	39:38						0.0192	0.0192		
PCB-163 (C129)	39:38						0.0192	0.0192		
PCB-158	40:00						0.0138	0.0138		
PCB-128	40:51						0.0184	0.0184		
PCB-166 (C128)	40:51						0.0184	0.0184		
PCB-159	41:51						0.0131	0.0131		
PCB-162	42:08						0.0144	0.0144		
PCB-167	42:37						0.0138	0.0138		
PCB-156	43:46						0.0203	0.0203		
PCB-157 (C156)	43:46						0.0203	0.0203		
PCB-169	47:00	1694	1.24	1.1628	0.0356	0.0301	0.0128	0.0128		RQM
S Total Heptachlorobiphenyls					0.0774	0.0529	0.001547	0.001547		RQ
D PCB-188L	37:00	3719231	1.08	1.3133	82.1	82.1	0.0524	0.0524	82.07	
\$ PCB-178L	40:03	2928568	1.05	1.0313	82.3	82.3	0.0668	0.0668	82.30	
* PCB-180L	45:08	3450457	1.07		100.0	100.0				
D PCB-170L	46:23	2604137	1.05	0.8362	90.3	90.3	0.0823	0.0823	90.25	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-189L	49:29	5819019	1.06	1.4414	85.6	85.6	0.5620	0.5620	85.58	
PCB-188	37:01						0.000615	0.000615		
PCB-179	37:22						0.000577	0.000577		
PCB-184	37:53						0.000602	0.000602		
PCB-176	38:14						0.000668	0.000668		
PCB-186	38:42						0.000559	0.000559		
PCB-178	40:05						0.000920	0.000920		
PCB-175	40:42						0.000865	0.000865		
PCB-187	40:58						0.000747	0.000747		
PCB-182	41:11						0.000890	0.000890		
PCB-183	41:39	1393	1.05	0.9825	0.0550	0.0448	0.000838	0.000838		RQM
PCB-185 (C183)	41:39	1393	1.05	0.9825	0.0550	0.0448	0.000838	0.000838		RQM
PCB-174	41:51	149	1.05	0.9642	0.006266	0.004888	0.000854	0.000854		RQ
PCB-177	42:16						0.000843	0.000843		
PCB-181	42:38						0.000866	0.000866		
PCB-171	42:52						0.000882	0.000882		
PCB-173 (C171)	42:52						0.000882	0.000882		
PCB-172	44:31						0.000967	0.000967		
PCB-192	44:46						0.000612	0.000612		
PCB-180	45:07						0.000705	0.000705		
PCB-193 (C180)	45:07						0.000705	0.000705		
PCB-191	45:30	129	1.05	1.2891	0.0161	0.003165	0.000639	0.000639		RQ
PCB-170	46:24						0.000845	0.000845		
PCB-190	46:56						0.000618	0.000618		
PCB-189	49:30						0.0174	0.0174		
S Total Octachlorobiphenyls					0.0422	0.0347	0.003908	0.003908		RQ
D PCB-202L	42:21	2930283	0.90	0.9818	86.5	86.5	0.0257	0.0257	86.50	
* PCB-194L	51:36	4717210	0.94		100.0	100.0				
D PCB-205L	52:03	4998714	0.91	1.1786	89.9	89.9	0.0767	0.0767	89.91	
PCB-202	42:23						0.003467	0.003467		
PCB-201	43:18						0.003682	0.003682		
PCB-204	43:58						0.003425	0.003425		
PCB-197	44:12						0.003134	0.003134		
PCB-200	44:19						0.003566	0.003566		
PCB-198	47:04	885	0.89	0.8698	0.0422	0.0347	0.004129	0.004129		RQ
PCB-199 (C198)	47:04	885	0.89	0.8698	0.0422	0.0347	0.004129	0.004129		RQ
PCB-196	47:45						0.004600	0.004600		
PCB-203	47:57						0.003865	0.003865		
PCB-195	49:17						0.005031	0.005031		
PCB-194	51:37						0.004270	0.004270		
PCB-205	52:05						0.003821	0.003821		
S Total Nonachlorobiphenyls							0.1437	0.1437		
D PCB-208L	49:01	4295569	0.81	0.9576	95.1	95.1	0.3113	0.3113	95.09	
D PCB-206L	53:49	3260916	0.81	0.6947	99.5	99.5	0.4290	0.4290	99.51	
PCB-208	49:02						0.1260	0.1260		
PCB-207	49:58						0.1193	0.1193		
PCB-206	53:50						0.1437	0.1437		
D PCB-209L	55:26	3361061	0.73	0.6669	106.8	106.8	0.0829	0.0829	107	
DCB Decachlorobiphenyl	55:31	255	0.69	1.1004	0.0232	0.006895	0.003404	0.003404		RQM
PCB-70L (PRC)	0.0						0.0	0.0		
PCB-111L (PRC)	0.0						0.0	0.0		
PCB-141L (PRC)	0.0						0.0	0.0		
PCB-8L (PRC)	0.0						0.0	0.0		
PCB-47L (PRC)	0.0						0.0	0.0		
PCB-28L (PRC)	0.0						0.0	0.0		
S Polychlorinated biphenyls, Total					2.192	0.006895	0.0364	0.0364		RQ
PCB-182L (PRC)	0.0						0.0	0.0		
PCB-80L (PRC)	0.0						0.0	0.0		

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d
Lims ID: MB 140-87206/17-B
Client ID:
Sample Type: MB
Inject. Date: 11-Jun-2024 15:03:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-008
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 08:35:49 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 08:35:49

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:32	11:35	-2	0.725	4835221	1834845	1595	3987	1150		
202.0766	11:32	11:35	-2	0.725	1543702	598043	1300	3250	460	3.13(2.66-3.60)	
PCB-3L											
200.0795	13:41	13:44	-2	0.860	4688019	1491659	1595	3987	935		
202.0766	13:41	13:44	-2	0.860	1497498	473071	1300	3250	364	3.13(2.66-3.60)	
PCB-1											
188.0393	11:33	11:33	-2	1.001	1246	546	65	162	8		RQM
190.0363	11:34	11:33	-1	1.002	1724	702	84	210	8	0.72(2.66-3.60)	M
Empc Correction					398	174	84	210	2		
PCB-2											
188.0393	13:32						65	162			
190.0363	13:32						84	210			
PCB-3											
188.0393	13:42						65	162			
190.0363	13:42						84	210			
PCB-4L											
234.0406	13:57	14:00	-2	0.877	1610619	526272	510	1275	1032		
236.0376	13:57	14:00	-2	0.877	985385	324563	208	520	1560	1.63(1.33-1.79)	
PCB-9L											
234.0406	15:54	15:56	-1		3378758	947055	510	1275	1857		
236.0376	15:54	15:56	-1		2084047	587271	208	520	2823	1.62(1.33-1.79)	
PCB-8L											
234.0406	16:50						510	1275			
236.0376	16:50						208	520			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:49	20:06	-1	1.246	2678758	612694	510	1275	1201		
236.0376	19:49	20:06	-1	1.246	1623218	382601	208	520	1839	1.65(1.33-1.79)	
PCB-4											
222.0003	13:58						109	272			
223.9974	13:58						77	192			
PCB-10											
222.0003	14:07						109	272			
223.9974	14:07						77	192			
PCB-9											
222.0003	15:54						109	272			
223.9974	15:54						77	192			
PCB-7											
222.0003	16:07						109	272			
223.9974	16:07						77	192			
PCB-6											
222.0003	16:24						109	272			
223.9974	16:24						77	192			
PCB-5											
222.0003	16:52						109	272			
223.9974	16:52						77	192			
PCB-8											
222.0003	16:54						109	272			
223.9974	16:54						77	192			
PCB-14											
222.0003	18:39						109	272			
223.9974	18:39						77	192			
PCB-11											
222.0003	19:16	19:16	2	0.973	52884	12545	109	272	115		RQMa
	Empc Correction				12250	2157	109	272	20		M
223.9974	19:15	19:16	0	0.971	7853	1383	77	192	18	6.73(1.33-1.79)	M
PCB-12											
222.0003	19:30						109	272			
223.9974	19:30						77	192			
PCB-13 (C12)											
222.0003	19:30						109	272			
223.9974	19:30						77	192			
PCB-15											
222.0003	20:07						109	272			
223.9974	20:07						77	192			
PCB-19L											
268.0016	17:02	17:15	-2	0.840	861858	242236	864	2160	280		
269.9986	17:02	17:15	-2	0.840	800361	221946	634	1585	350	1.08(0.88-1.20)	
PCB-32L											
268.0016	20:17	20:18	-1		2080717	480126	864	2160	556		
269.9986	20:17	20:18	-1		1830213	442662	634	1585	698	1.14(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:33	22:34	-1		4698767	1050737	1118	2795	940		
269.9986	22:33	22:34	-1		4404571	1002262	603	1507	1662	1.07(0.88-1.20)	
PCB-28L											
268.0016	22:49	22:56	-1	1.012	3625321	815449	1118	2795	729		
269.9986	22:49	22:56	-1	1.012	3411227	749896	603	1507	1244	1.06(0.88-1.20)	
PCB-37L											
268.0016	26:50	26:56	-1	1.190	3129614	619830	1118	2795	554		
269.9986	26:50	26:56	-1	1.190	2962816	586939	603	1507	973	1.06(0.88-1.20)	
PCB-19											
255.9613	17:13						11	27			
257.9584	17:13						11	27			
PCB-18											
255.9613	18:53	19:00	-1	1.109	702	221	11	27	20		M
257.9584	18:53	19:00	-1	1.109	627	254	11	27	23	1.12(0.88-1.20)	M
PCB-30 (C18)											
255.9613	18:53	19:00	-1	1.109	702	221	11	27	20		M
257.9584	18:53	19:00	-1	1.109	627	254	11	27	23	1.12(0.88-1.20)	M
PCB-17											
255.9613	19:27						11	27			
257.9584	19:27						11	27			
PCB-27											
255.9613	19:36						11	27			
257.9584	19:36						11	27			
PCB-24											
255.9613	19:50						11	27			
257.9584	19:50						11	27			
PCB-16											
255.9613	19:55						11	27			
257.9584	19:55						11	27			
PCB-32											
255.9613	20:19	20:31	0	1.192	2393	369	11	27	34		RQ
	Empc Correction				1123	322	11	27	29		
257.9584	20:15	20:31	-4	1.189	1080	310	11	27	28	2.22(0.88-1.20)	
PCB-34											
255.9613	21:41						37	92			
257.9584	21:41						35	87			
PCB-23											
255.9613	21:50						37	92			
257.9584	21:50						35	87			
PCB-26											
255.9613	22:09						37	92			
257.9584	22:09						35	87			
PCB-29 (C26)											
255.9613	22:09						37	92			
257.9584	22:09						35	87			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:22						37	92			
257.9584	22:22						35	87			
PCB-31											
255.9613	22:35	22:42	0	0.842	2278	446	37	92	12		RQM
	Empc Correction				1585	298	37	92	8		M
257.9584	22:32	22:42	-3	0.840	1525	287	35	87	8	1.49(0.88-1.20)	
PCB-20											
255.9613	22:51	22:57	-2	0.852	4060	902	37	92	24		M
257.9584	22:53	22:57	0	0.853	3503	708	35	87	20	1.16(0.88-1.20)	M
PCB-28 (C20)											
255.9613	22:51	22:57	-2	0.852	4060	902	37	92	24		M
257.9584	22:53	22:57	0	0.853	3503	708	35	87	20	1.16(0.88-1.20)	M
PCB-21											
255.9613	23:12						37	92			
257.9584	23:12						35	87			
PCB-33 (C21)											
255.9613	23:12						37	92			
257.9584	23:12						35	87			
PCB-22											
255.9613	23:29	23:35	-1	0.876	820	244	37	92	7		RQM
257.9584	23:30	23:35	0	0.876	1373	327	35	87	9	0.60(0.88-1.20)	M
	Empc Correction				788	234	35	87	7		
PCB-36											
255.9613	25:05						37	92			
257.9584	25:05						35	87			
PCB-39											
255.9613	25:26						37	92			
257.9584	25:26						35	87			
PCB-38											
255.9613	26:01						37	92			
257.9584	26:01						35	87			
PCB-35											
255.9613	26:29						37	92			
257.9584	26:29						35	87			
PCB-37											
255.9613	26:51						37	92			
257.9584	26:51						35	87			
PCB-54L											
301.9626	20:07	20:23	-1	0.815	707862	178831	87	217	2056		
303.9597	20:07	20:23	-1	0.815	887679	220592	52	130	4242	0.80(0.65-0.89)	
PCB-52L											
301.9626	24:40	24:41	-1		2150852	474441	238	595	1993		
303.9597	24:40	24:41	-1		2684234	579882	349	872	1662	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:33						238	595			
303.9597	32:33						349	872			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:34	33:38	-1	1.361	2148730	402198	238	595	1690		
303.9597	33:34	33:38	-1	1.361	2672046	503608	349	872	1443	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:08	34:11	-1	1.384	2360966	428788	238	595	1802		
303.9597	34:08	34:11	-1	1.384	2937034	530871	349	872	1521	0.80(0.65-0.89)	
PCB-54											
289.9224	20:10						3	7			
291.9194	20:10						18	45			
PCB-50											
289.9224	22:36						2	5			
291.9194	22:36						365	912			
PCB-53 (C50)											
289.9224	22:36						2	5			
291.9194	22:36						365	912			
PCB-45											
289.9224	23:08						2	5			
291.9194	23:08						365	912			
PCB-51 (C45)											
289.9224	23:08						2	5			
291.9194	23:08						365	912			
PCB-46											
289.9224	23:35						2	5			
291.9194	23:35						365	912			
PCB-52											
289.9224	24:42						2	5			
291.9194	24:42						365	912			
PCB-43											
289.9224	25:09						2	5			
291.9194	25:09						365	912			
PCB-73 (C43)											
289.9224	25:09						2	5			
291.9194	25:09						365	912			
PCB-49											
289.9224	25:14						2	5			
291.9194	25:14						365	912			
PCB-69 (C49)											
289.9224	25:14						2	5			
291.9194	25:14						365	912			
PCB-48											
289.9224	25:31						2	5			
291.9194	25:31						365	912			
PCB-44											
289.9224	25:43						2	5			
291.9194	25:43						365	912			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:43						2	5			
291.9194	25:43						365	912			
PCB-65 (C44)											
289.9224	25:43						2	5			
291.9194	25:43						365	912			
PCB-59											
289.9224	26:04						2	5			
291.9194	26:04						365	912			
PCB-62 (C59)											
289.9224	26:04						2	5			
291.9194	26:04						365	912			
PCB-75 (C59)											
289.9224	26:04						2	5			
291.9194	26:04						365	912			
PCB-42											
289.9224	26:15						2	5			
291.9194	26:15						365	912			
PCB-40											
289.9224	26:42						2	5			
291.9194	26:42						365	912			
PCB-41 (C40)											
289.9224	26:42						2	5			
291.9194	26:42						365	912			
PCB-71 (C40)											
289.9224	26:42						2	5			
291.9194	26:42						365	912			
PCB-64											
289.9224	26:57						2	5			
291.9194	26:57						365	912			
PCB-72											
289.9224	27:44						2	5			
291.9194	27:44						365	912			
PCB-68											
289.9224	28:03						2	5			
291.9194	28:03						365	912			
PCB-57											
289.9224	28:26						2	5			
291.9194	28:26						365	912			
PCB-58											
289.9224	28:41						2	5			
291.9194	28:41						365	912			
PCB-67											
289.9224	28:51						2	5			
291.9194	28:51						365	912			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:07						2	5			
291.9194	29:07						365	912			
PCB-61											
289.9224	29:27						2	5			
291.9194	29:27						365	912			
PCB-70 (C61)											
289.9224	29:27						2	5			
291.9194	29:27						365	912			
PCB-74 (C61)											
289.9224	29:27						2	5			
291.9194	29:27						365	912			
PCB-76 (C61)											
289.9224	29:27						2	5			
291.9194	29:27						365	912			
PCB-66											
289.9224	29:49						2	5			
291.9194	29:49						365	912			
PCB-55											
289.9224	29:56						2	5			
291.9194	29:56						365	912			
PCB-56											
289.9224	30:27						2	5			
291.9194	30:27						365	912			
PCB-60											
289.9224	30:39						2	5			
291.9194	30:39						365	912			
PCB-80											
289.9224	31:03						2	5			
291.9194	31:03						365	912			
PCB-79											
289.9224	32:35						2	5			
291.9194	32:35						365	912			
PCB-78											
289.9224	33:08						2	5			
291.9194	33:08						365	912			
PCB-81											
289.9224	33:34						2	5			
291.9194	33:34						365	912			
PCB-77											
289.9224	34:09	34:09	-1	1.001	1700	347	2	5	174		RQM
291.9194	34:10	34:09	0	1.001	7302	1469	365	912	4	0.23(0.65-0.89)	M
Empc Correction					2207	450	365	912	1		
PCB-104L											
337.9207	25:36	25:37	-1	0.812	2020405	439181	98	245	4481		
339.9178	25:36	25:37	-1	0.812	1262552	284430	53	132	5367	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:38						98	245			
339.9178	28:38						53	132			
PCB-101L											
337.9207	31:31	31:31	-1		2111736	437126	98	245	4460		
339.9178	31:31	31:31	-1		1314732	271024	53	132	5114	1.61(1.32-1.78)	
PCB-111L											
337.9207	34:11	34:11	-1	1.085	2367598	465523	98	245	4750		
339.9178	34:11	34:11	-1	1.085	1481320	302631	53	132	5710	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:08	36:08	0	1.147	3016917	594082	2989	7472	199		
339.9178	36:08	36:08	0	1.147	1914809	378719	1715	4287	221	1.58(1.32-1.78)	
PCB-118L											
337.9207	36:28	36:27	0	1.157	3197088	641322	2989	7472	215		
339.9178	36:28	36:27	0	1.157	2007079	386187	1715	4287	225	1.59(1.32-1.78)	
PCB-114L											
337.9207	36:59	36:59	-1	1.174	3108841	605244	2989	7472	202		
339.9178	37:00	36:59	0	1.174	1930687	373020	1715	4287	218	1.61(1.32-1.78)	
PCB-105L											
337.9207	37:38	37:37	0	1.195	3104066	584294	2989	7472	195		
339.9178	37:38	37:37	0	1.195	1911283	362989	1715	4287	212	1.62(1.32-1.78)	
PCB-127L											
337.9207	39:07	39:07	0		3757205	701737	2989	7472	235		
339.9178	39:07	39:07	0		2379376	446409	1715	4287	260	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:44	40:43	0	1.293	3123578	566955	2989	7472	190		
339.9178	40:44	40:43	0	1.293	1960096	352306	1715	4287	205	1.59(1.32-1.78)	
PCB-104											
325.8804	25:40						56	140			
327.8775	25:40						4	10			
PCB-96											
325.8804	26:03						56	140			
327.8775	26:03						4	10			
PCB-103											
325.8804	27:59						56	140			
327.8775	27:59						4	10			
PCB-94											
325.8804	28:12						56	140			
327.8775	28:12						4	10			
PCB-95											
325.8804	28:34						56	140			
327.8775	28:34						4	10			
PCB-93											
325.8804	28:52						56	140			
327.8775	28:52						4	10			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:52						56	140			
327.8775	28:52						4	10			
PCB-98											
325.8804	28:57						56	140			
327.8775	28:57						4	10			
PCB-102 (C98)											
325.8804	28:57						56	140			
327.8775	28:57						4	10			
PCB-88											
325.8804	29:31						56	140			RQU
327.8775	29:31						4	10			
PCB-91 (C88)											
325.8804	29:31						56	140			RQU
327.8775	29:31						4	10			
PCB-84											
325.8804	29:44						56	140			
327.8775	29:44						4	10			
PCB-89											
325.8804	30:12						56	140			
327.8775	30:12						4	10			
PCB-121											
325.8804	30:37						56	140			
327.8775	30:37						4	10			
PCB-92											
325.8804	30:56						56	140			
327.8775	30:56						4	10			
PCB-90											
325.8804	31:34						56	140			
327.8775	31:34						4	10			
PCB-101 (C90)											
325.8804	31:34						56	140			
327.8775	31:34						4	10			
PCB-113 (C90)											
325.8804	31:34						56	140			
327.8775	31:34						4	10			
PCB-83											
325.8804	32:09						56	140			
327.8775	32:09						4	10			
PCB-99 (C83)											
325.8804	32:09						56	140			
327.8775	32:09						4	10			
PCB-112											
325.8804	32:16						56	140			
327.8775	32:16						4	10			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											
325.8804	32:38						56	140			
327.8775	32:38						4	10			
PCB-87 (C86)											
325.8804	32:38						56	140			
327.8775	32:38						4	10			
PCB-97 (C86)											
325.8804	32:38						56	140			
327.8775	32:38						4	10			
PCB-109 (C86)											
325.8804	32:38						56	140			
327.8775	32:38						4	10			
PCB-119 (C86)											
325.8804	32:38						56	140			
327.8775	32:38						4	10			
PCB-125 (C86)											
325.8804	32:38						56	140			
327.8775	32:38						4	10			
PCB-85											
325.8804	33:22						56	140			
327.8775	33:22						4	10			
PCB-116 (C85)											
325.8804	33:22						56	140			
327.8775	33:22						4	10			
PCB-117 (C85)											
325.8804	33:22						56	140			
327.8775	33:22						4	10			
PCB-110											
325.8804	33:30	33:30	-1	1.309	1199	380	56	140	7		RQ
	Empc Correction				221	122	56	140	2		
327.8775	33:30	33:30	-2	1.308	143	79	4	10	20	8.38(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:30	33:30	-1	1.309	1199	380	56	140	7		RQ
	Empc Correction				221	122	56	140	2		
327.8775	33:30	33:30	-2	1.308	143	79	4	10	20	8.38(1.32-1.78)	
PCB-82											
325.8804	33:47						56	140			
327.8775	33:47						4	10			
PCB-111											
325.8804	34:16						56	140			
327.8775	34:16						4	10			
PCB-120											
325.8804	34:44						56	140			
327.8775	34:44						4	10			
PCB-108											
325.8804	35:52						90	225			
327.8775	35:52						26	65			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:52						90	225			
327.8775	35:52						26	65			
PCB-107											
325.8804	36:06						90	225			
327.8775	36:06						26	65			
PCB-123											
325.8804	36:09						90	225			
327.8775	36:09						26	65			
PCB-106											
325.8804	36:16						90	225			
327.8775	36:16						26	65			
PCB-118											
325.8804	36:30	36:27	0	1.001	2603	405	90	225	5		RQM
	Empc Correction				968	291	90	225	3		M
327.8775	36:28	36:27	-2	1.000	625	188	26	65	7	4.16(1.32-1.78)	
PCB-122											
325.8804	36:48						90	225			
327.8775	36:48						26	65			
PCB-114											
325.8804	36:58						90	225			
327.8775	36:58						26	65			
PCB-105											
325.8804	37:38						90	225			
327.8775	37:38						26	65			
PCB-127											
325.8804	39:06						90	225			
327.8775	39:06						26	65			
PCB-126											
325.8804	40:42						90	225			
327.8775	40:42						26	65			
PCB-155L											
371.8817	31:16	31:15	-1	0.790	1756787	361477	73	182	4952		
373.8788	31:16	31:15	-1	0.790	1387445	283372	47	117	6029	1.27(1.05-1.43)	
PCB-153L											
371.8817	38:20	38:18	0	0.900	42100	8865	1651	4127	5		RQ
	Empc Correction				35445	7614	1651	4127	5		
373.8788	38:22	38:18	1	0.901	28585	6141	989	2472	6	1.47(1.05-1.43)	
PCB-138L											
371.8817	39:35	39:35	0		2388144	459759	1651	4127	278		
373.8788	39:35	39:35	0		1839870	363982	989	2472	368	1.30(1.05-1.43)	
PCB-159L											
371.8817	41:56						1651	4127			
373.8788	41:56						989	2472			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-167L											
371.8817	42:35	42:33	0	1.076	2586433	481913	1651	4127	292		
373.8788	42:35	42:33	0	1.076	1989589	372594	989	2472	377	1.30(1.05-1.43)	
PCB-156L											
371.8817	43:44	43:41	0	1.105	5043832	664958	1651	4127	403		
373.8788	43:43	43:41	0	1.105	3942884	504041	989	2472	510	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:44	43:41	0	1.105	5043832	664958	1651	4127	403		
373.8788	43:43	43:41	0	1.105	3942884	504041	989	2472	510	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:57	46:55	-1	1.186	2683954	495259	1651	4127	300		
373.8788	46:57	46:55	-1	1.186	2151163	394424	989	2472	399	1.25(1.05-1.43)	
PCB-155											
359.8415	31:17						4	10			
361.8385	31:17						1	2			
PCB-152											
359.8415	31:29						4	10			
361.8385	31:29						1	2			
PCB-150											
359.8415	31:39						4	10			
361.8385	31:39						1	2			
PCB-136											
359.8415	32:01						4	10			
361.8385	32:01						1	2			
PCB-145											
359.8415	32:19						4	10			
361.8385	32:19						1	2			
PCB-148											
359.8415	33:49						4	10			
361.8385	33:49						1	2			
PCB-135											
359.8415	34:24						4	10			
361.8385	34:24						1	2			
PCB-151 (C135)											
359.8415	34:24						4	10			
361.8385	34:24						1	2			
PCB-154											
359.8415	34:40						4	10			
361.8385	34:40						1	2			
PCB-144											
359.8415	34:58						4	10			
361.8385	34:58						1	2			
PCB-147											
359.8415	35:18						37	92			
361.8385	35:18						16	40			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-149 (C147)											
359.8415	35:18						37	92			
361.8385	35:18						16	40			
PCB-134											
359.8415	35:38						37	92			
361.8385	35:38						16	40			
PCB-143 (C134)											
359.8415	35:38						37	92			
361.8385	35:38						16	40			
PCB-139											
359.8415	35:55	35:56	-2	1.149	665	198	37	92	5		RQM
	Empc Correction				364	117	37	92	3		
361.8385	35:56	35:56	0	1.150	294	95	16	40	6	2.26(1.05-1.43)	M
PCB-140 (C139)											
359.8415	35:55	35:56	-2	1.149	665	198	37	92	5		RQM
	Empc Correction				364	117	37	92	3		
361.8385	35:56	35:56	0	1.150	294	95	16	40	6	2.26(1.05-1.43)	M
PCB-131											
359.8415	36:08						37	92			
361.8385	36:08						16	40			
PCB-142											
359.8415	36:17						37	92			
361.8385	36:17						16	40			
PCB-132											
359.8415	36:39						37	92			
361.8385	36:39						16	40			
PCB-133											
359.8415	37:06						37	92			
361.8385	37:06						16	40			
PCB-165											
359.8415	37:28						37	92			
361.8385	37:28						16	40			
PCB-146											
359.8415	37:42						37	92			
361.8385	37:42						16	40			
PCB-161											
359.8415	37:51						37	92			
361.8385	37:51						16	40			
PCB-153											
359.8415	38:23	38:19	0	0.901	1420	515	37	92	14		RQ
	Empc Correction				627	334	37	92	9		
361.8385	38:21	38:19	-3	0.901	506	270	16	40	17	2.81(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:23	38:19	0	0.901	1420	515	37	92	14		RQ
	Empc Correction				627	334	37	92	9		
361.8385	38:21	38:19	-3	0.901	506	270	16	40	17	2.81(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-141											
359.8415	38:31						37	92			
361.8385	38:31						16	40			
PCB-130											
359.8415	38:56						37	92			
361.8385	38:56						16	40			
PCB-137											
359.8415	39:10						37	92			
361.8385	39:10						16	40			
PCB-164											
359.8415	39:16						37	92			
361.8385	39:16						16	40			
PCB-129											
359.8415	39:34						37	92			
361.8385	39:34						16	40			
PCB-138 (C129)											
359.8415	39:34						37	92			
361.8385	39:34						16	40			
PCB-160 (C129)											
359.8415	39:34						37	92			
361.8385	39:34						16	40			
PCB-163 (C129)											
359.8415	39:34						37	92			
361.8385	39:34						16	40			
PCB-158											
359.8415	39:57						37	92			
361.8385	39:57						16	40			
PCB-128											
359.8415	40:49						37	92			
361.8385	40:49						16	40			
PCB-166 (C128)											
359.8415	40:49						37	92			
361.8385	40:49						16	40			
PCB-159											
359.8415	41:48						37	92			
361.8385	41:48						16	40			
PCB-162											
359.8415	42:06						37	92			
361.8385	42:06						16	40			
PCB-167											
359.8415	42:34						37	92			
361.8385	42:34						16	40			
PCB-156											
359.8415	43:44						37	92			
361.8385	43:44						16	40			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-157 (C156)											
359.8415	43:44						37	92			
361.8385	43:44						16	40			
PCB-169											
359.8415	47:00	46:56	1	1.001	938	247	37	92	7		RQM
361.8385	47:00	46:56	1	1.001	1065	254	16	40	16	0.88(1.05-1.43)	M
Empc Correction					756	199	16	40	12		
PCB-188L											
405.8428	37:00	36:58	0	0.820	1928484	370267	76	190	4872		
407.8398	37:00	36:58	0	0.820	1790747	345507	104	260	3322	1.08(0.89-1.21)	
PCB-178L											
405.8428	40:03	40:01	0	0.887	1502560	296215	76	190	3898		
407.8398	40:03	40:01	0	0.887	1426008	272495	104	260	2620	1.05(0.89-1.21)	
PCB-180L											
405.8428	45:08	45:08	0		1784233	339656	76	190	4469		
407.8398	45:08	45:08	0		1666224	313966	104	260	3019	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:23	46:21	-1	1.028	1336609	254623	76	190	3350		
407.8398	46:23	46:21	-1	1.028	1267528	244019	104	260	2346	1.05(0.89-1.21)	
PCB-189L											
405.8428	49:29	49:27	0	1.097	3000504	557060	1663	4157	335		
407.8398	49:29	49:27	0	1.097	2818515	518246	1133	2832	457	1.06(0.89-1.21)	
PCB-188											
393.8025	36:59						1	2			
395.7995	36:59						1	2			
PCB-179											
393.8025	37:20						1	2			
395.7995	37:20						1	2			
PCB-184											
393.8025	37:50						1	2			
395.7995	37:50						1	2			
PCB-176											
393.8025	38:12						1	2			
395.7995	38:12						1	2			
PCB-186											
393.8025	38:39						1	2			
395.7995	38:39						1	2			
PCB-178											
393.8025	40:02						1	2			
395.7995	40:02						1	2			
PCB-175											
393.8025	40:40						1	2			
395.7995	40:40						1	2			
PCB-187											
393.8025	40:55						1	2			
395.7995	40:55						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-182											
393.8025	41:08						1	2			
395.7995	41:08						1	2			
PCB-183											
393.8025	41:39	41:39	4	1.126	1029	333	1	2	333		RQM
	Empc Correction				713	334	1	2	334		M
395.7995	41:33	41:39	-2	1.123	680	319	1	2	319	1.51(0.89-1.21)	
PCB-185 (C183)											
393.8025	41:39	41:39	4	1.126	1029	333	1	2	333		RQM
	Empc Correction				713	334	1	2	334		M
395.7995	41:33	41:39	-2	1.123	680	319	1	2	319	1.51(0.89-1.21)	
PCB-174											
393.8025	41:51	41:47	1	1.131	118	68	1	2	68		RQ
	Empc Correction				76	40	1	2	40		
395.7995	41:51	41:47	2	1.132	73	39	1	2	39	1.62(0.89-1.21)	
PCB-177											
393.8025	42:13						1	2			
395.7995	42:13						1	2			
PCB-181											
393.8025	42:36						1	2			
395.7995	42:36						1	2			
PCB-171											
393.8025	42:52						1	2			
395.7995	42:52						1	2			
PCB-173 (C171)											
393.8025	42:52						1	2			
395.7995	42:52						1	2			
PCB-172											
393.8025	44:33						1	2			
395.7995	44:33						1	2			
PCB-192											
393.8025	44:44						1	2			
395.7995	44:44						1	2			
PCB-180											
393.8025	45:10						1	2			
395.7995	45:10						1	2			
PCB-193 (C180)											
393.8025	45:10						1	2			
395.7995	45:10						1	2			
PCB-191											
393.8025	45:30	45:29	-1	0.919	593	261	1	2	261		RQ
	Empc Correction				66	30	1	2	30		
395.7995	45:30	45:29	-1	0.919	63	29	1	2	29	9.41(0.89-1.21)	
PCB-170											
393.8025	46:22						1	2			
395.7995	46:22						1	2			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-190											
393.8025	46:54						1	2			
395.7995	46:54						1	2			
PCB-189											
393.8025	49:28						48	120			
395.7995	49:28						24	60			
PCB-202L											
439.8038	42:21	42:19	0	0.821	1392004	263579	29	72	9089		
441.8008	42:21	42:19	0	0.821	1538279	293318	37	92	7928	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:36	51:36	0		2282296	413907	180	450	2299		
441.8008	51:36	51:36	0		2434914	449018	132	330	3402	0.94(0.76-1.02)	
PCB-205L											
439.8038	52:03	52:02	-1	1.009	2384389	424323	180	450	2357		
441.8008	52:03	52:02	-1	1.009	2614325	465770	132	330	3529	0.91(0.76-1.02)	
PCB-202											
427.7635	42:22						7	17			
429.7606	42:22						1	2			
PCB-201											
427.7635	43:16						7	17			
429.7606	43:16						1	2			
PCB-204											
427.7635	43:56						7	17			
429.7606	43:56						1	2			
PCB-197											
427.7635	44:10						7	17			
429.7606	44:10						1	2			
PCB-200											
427.7635	44:21						7	17			
429.7606	44:21						1	2			
PCB-198											
427.7635	47:04	47:05	-1	1.111	417	177	7	17	25		RQ
429.7606	47:04	47:05	-1	1.111	658	236	1	2	236	0.63(0.76-1.02)	
	Empc Correction				468	198	1	2	198		
PCB-199 (C198)											
427.7635	47:04	47:05	-1	1.111	417	177	7	17	25		RQ
429.7606	47:04	47:05	-1	1.111	658	236	1	2	236	0.63(0.76-1.02)	
	Empc Correction				468	198	1	2	198		
PCB-196											
427.7635	47:43						7	17			
429.7606	47:43						1	2			
PCB-203											
427.7635	47:55						7	17			
429.7606	47:55						1	2			
PCB-195											
427.7635	49:14						10	25			
429.7606	49:14						5	12			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194											
427.7635	51:37						10	25			
429.7606	51:37						5	12			
PCB-205											
427.7635	52:02						10	25			
429.7606	52:02						5	12			
PCB-208L											
473.7648	49:01	48:59	-1	0.950	1925426	345428	492	1230	702		
475.7619	49:01	48:59	-1	0.950	2370143	437308	537	1342	814	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:49	53:47	0	1.043	1458191	259619	492	1230	528		
475.7619	53:49	53:47	-1	1.043	1802725	325426	537	1342	606	0.81(0.65-0.89)	
PCB-208											
461.7246	48:59						178	445			
463.7216	48:59						271	677			
PCB-207											
461.7246	49:55						178	445			
463.7216	49:55						271	677			
PCB-206											
461.7246	53:47						178	445			
463.7216	53:47						271	677			
PCB-209L											
507.7258	55:26	55:24	0	1.074	1418105	246884	139	347	1776		
509.7229	55:25	55:24	-1	1.074	1942956	340399	52	130	6546	0.73(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:31	55:26	3	1.001	706	228	4	10	57		RQM
Empc Correction											M
497.6826	55:26	55:26	-1	1.000	151	51	5	12	10	4.68(0.59-0.79)	M
PCB-70L (PRC)											
0.0											
PCB-111L (PRC)											
0.0											
PCB-141L (PRC)											
0.0											
PCB-8L (PRC)											
0.0											
PCB-47L (PRC)											
0.0											
PCB-28L (PRC)											
0.0											
PCB-182L (PRC)											
0.0											
PCB-80L (PRC)											
0.0											

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

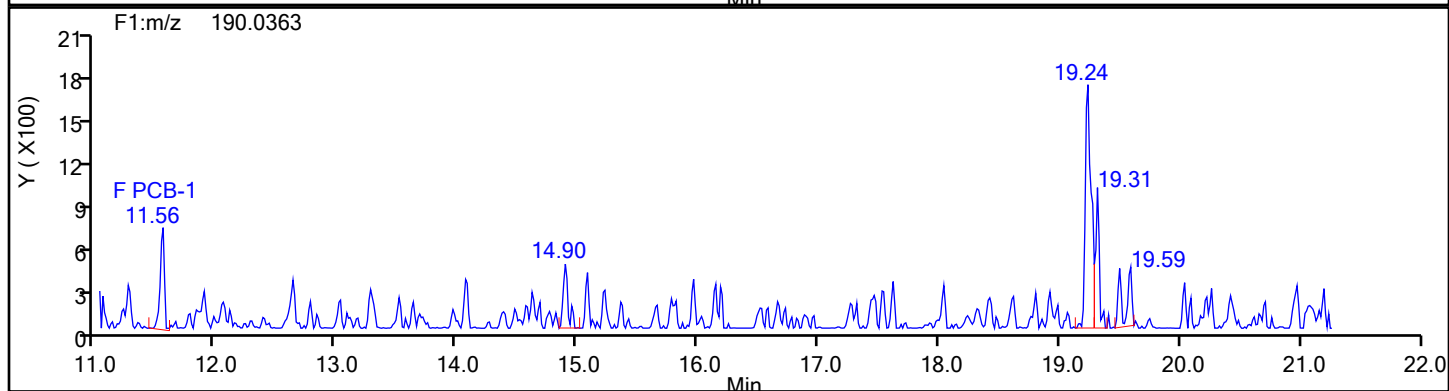
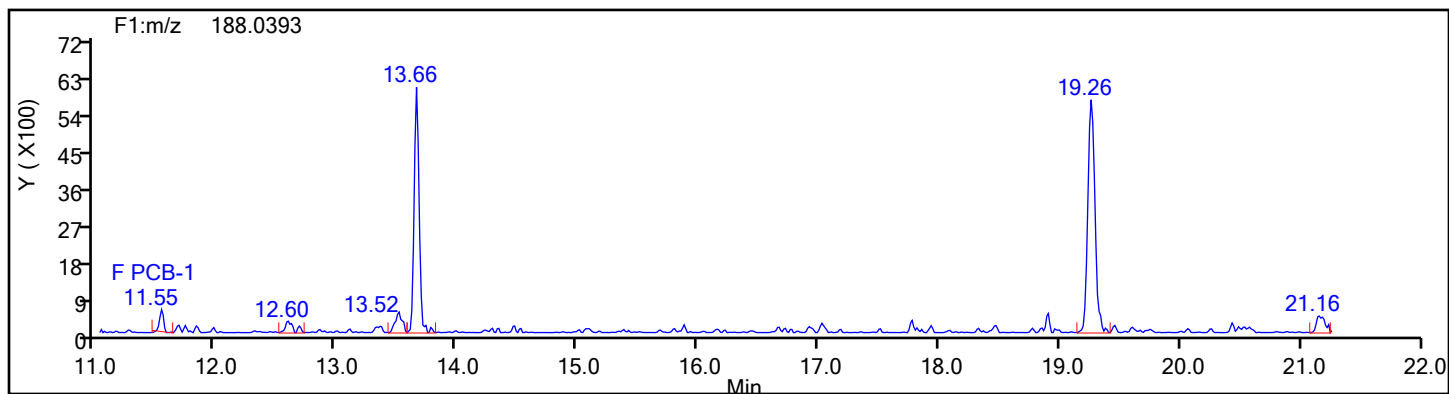
Worklist#: 87502

Sample Line#: 8

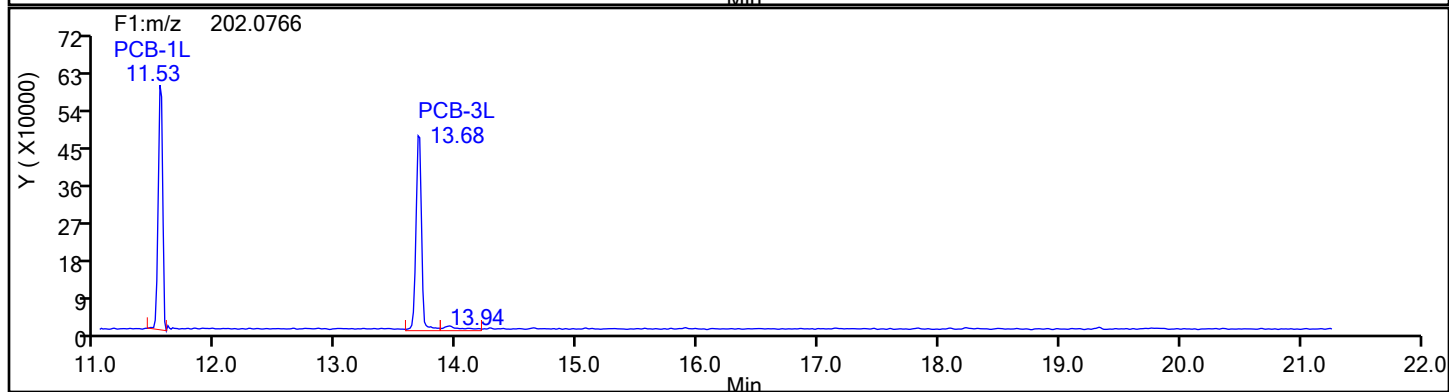
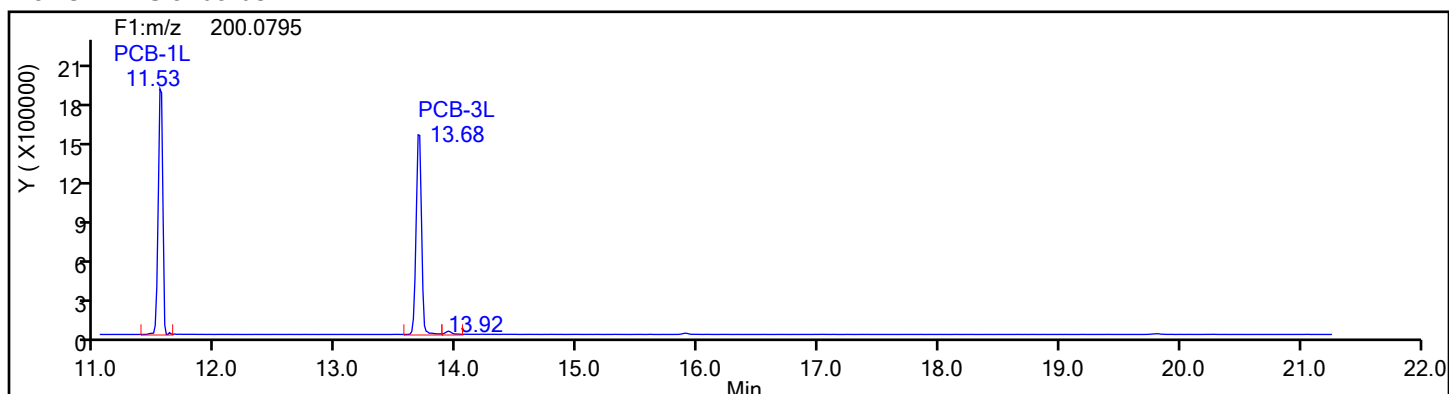
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

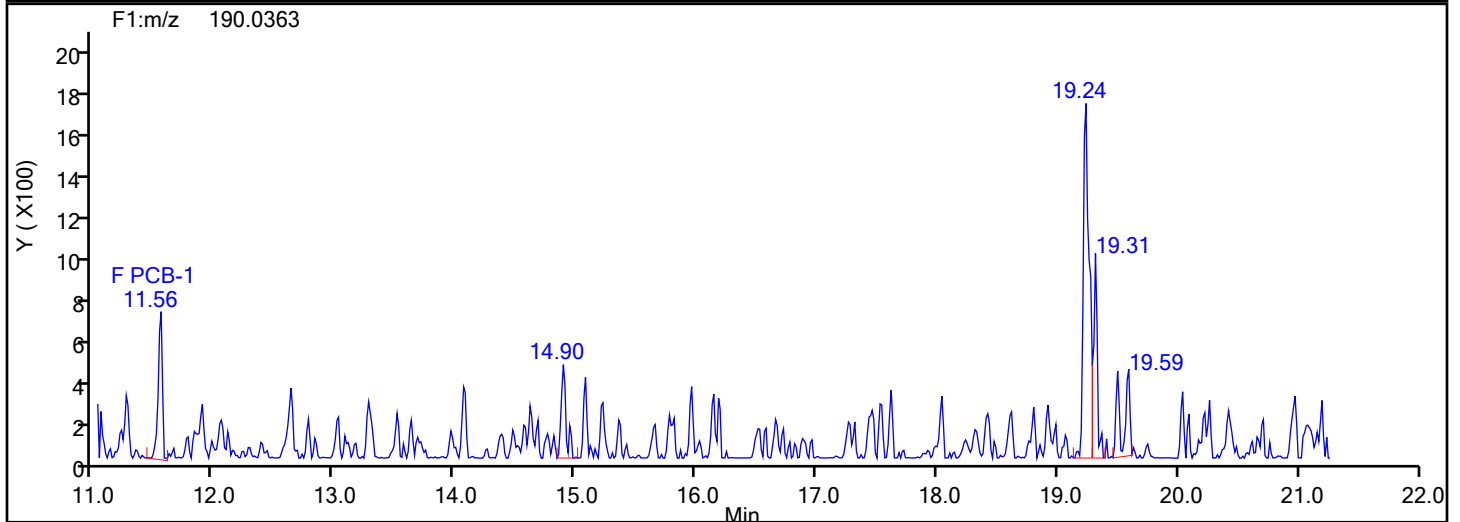
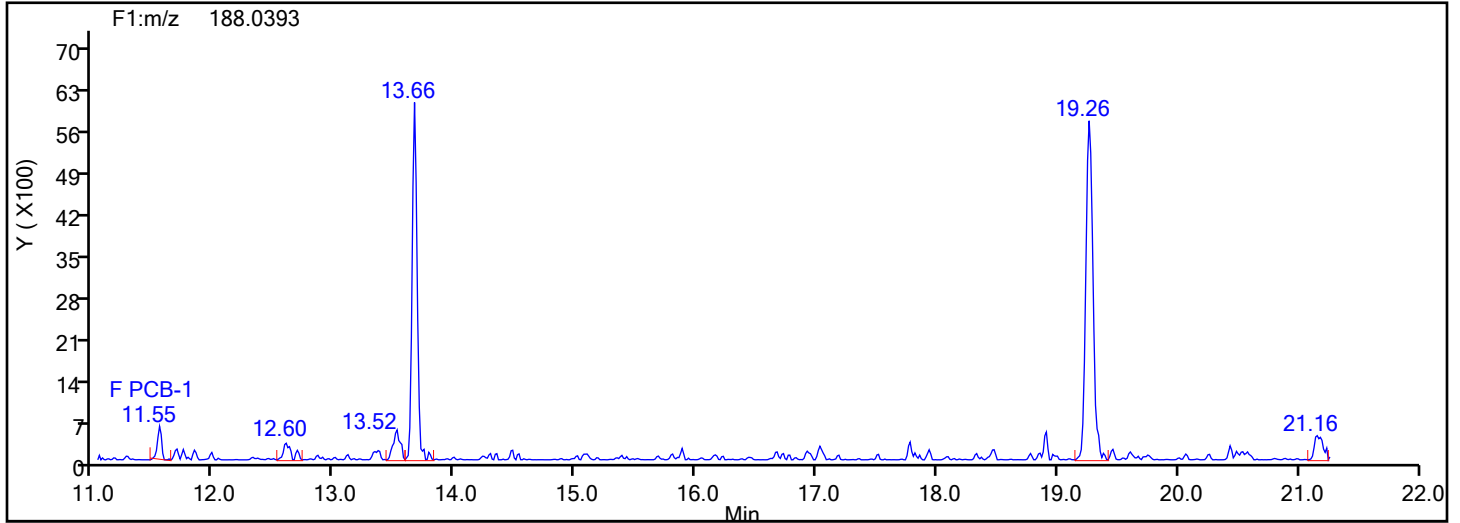
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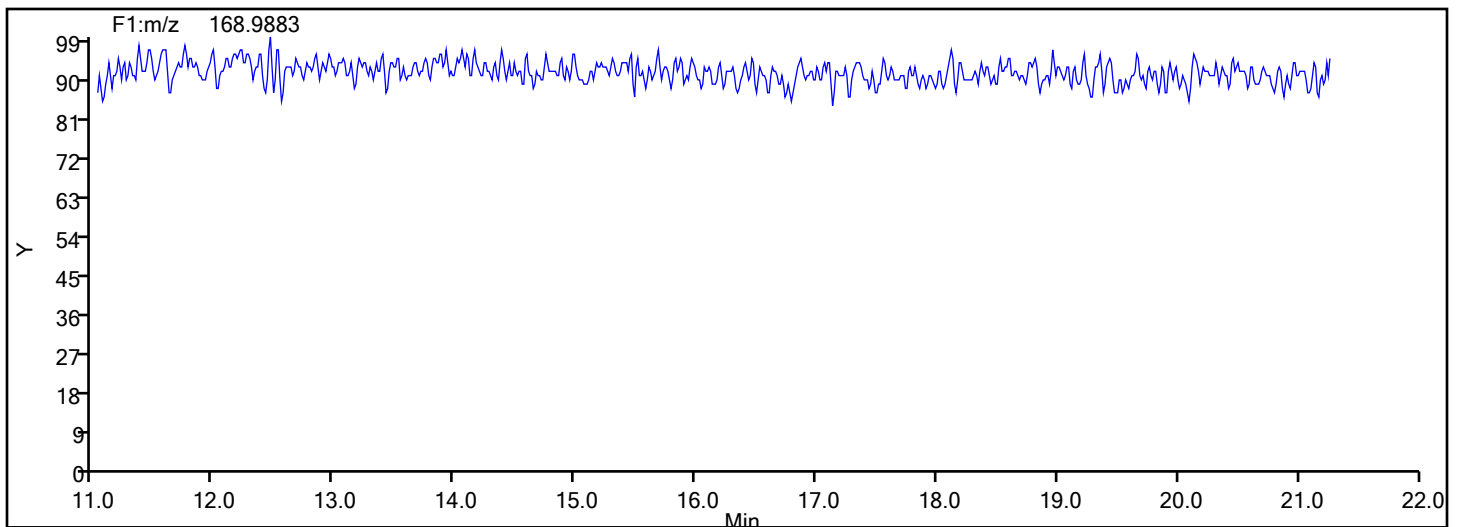
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

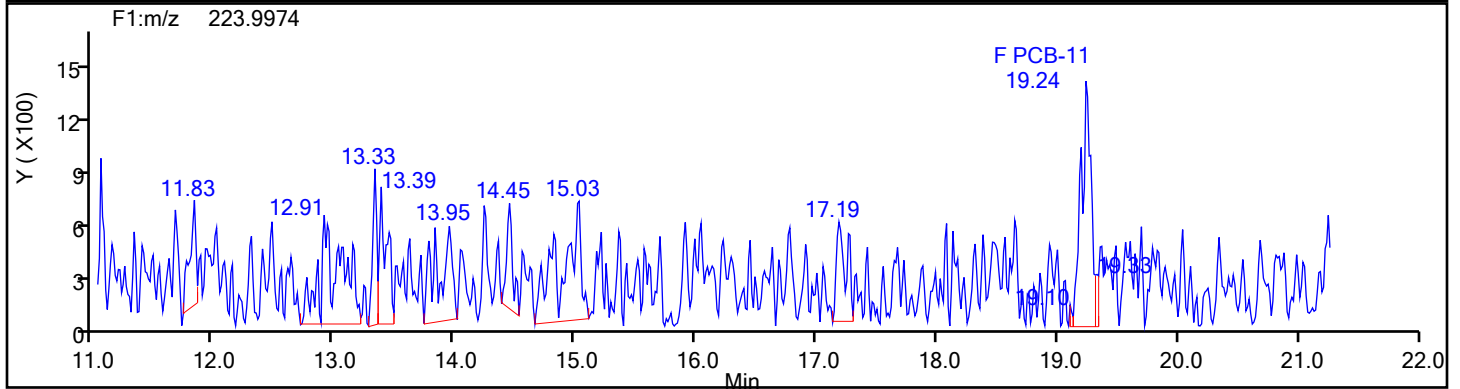
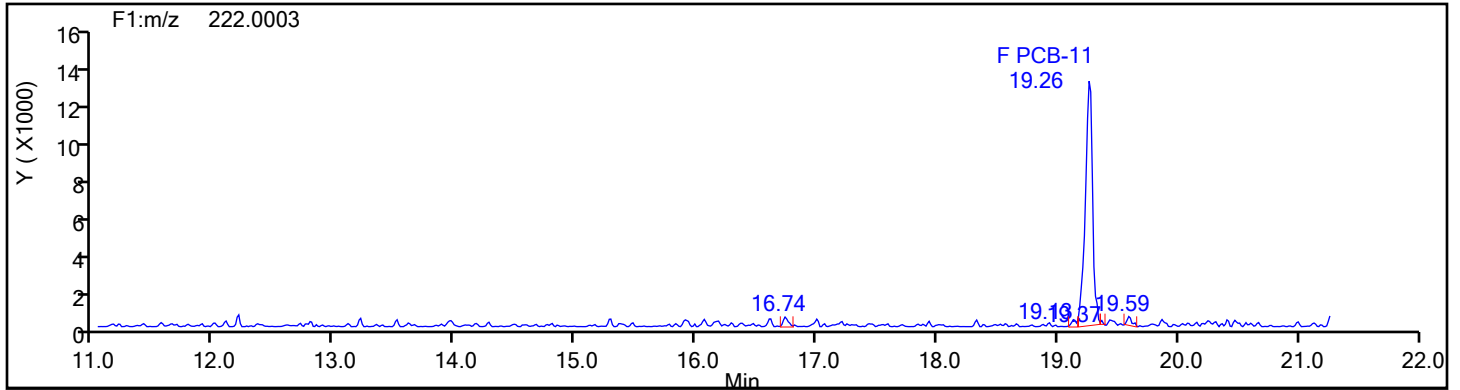
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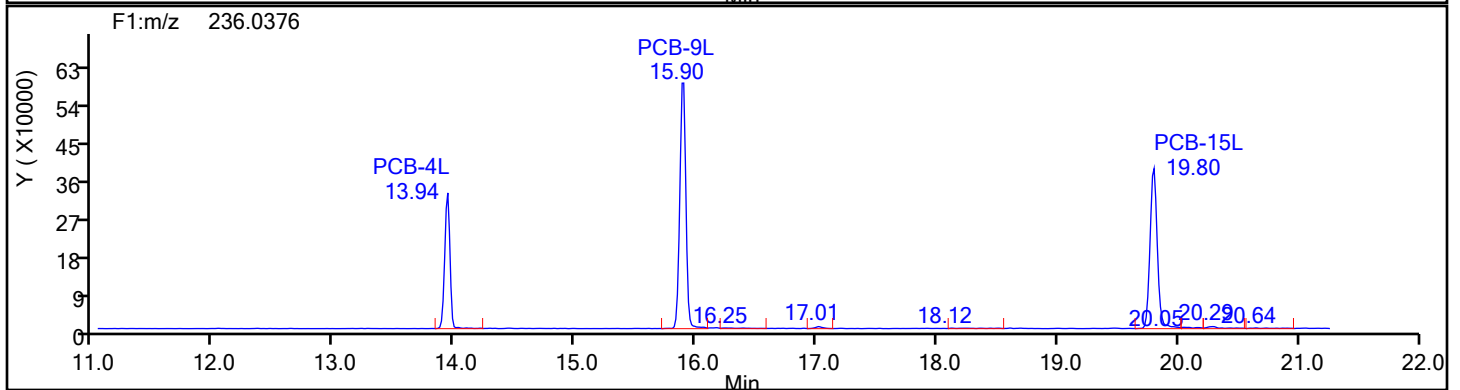
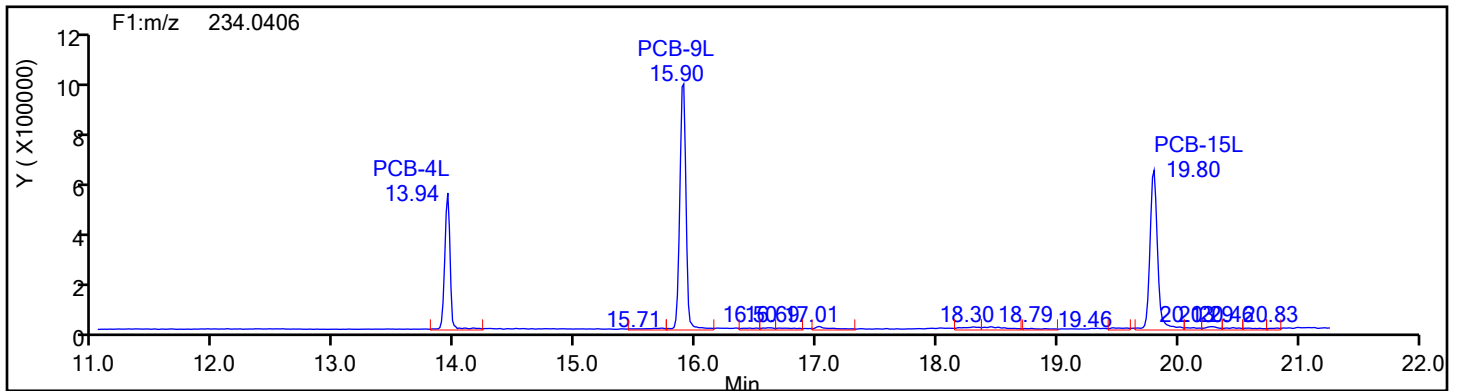
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

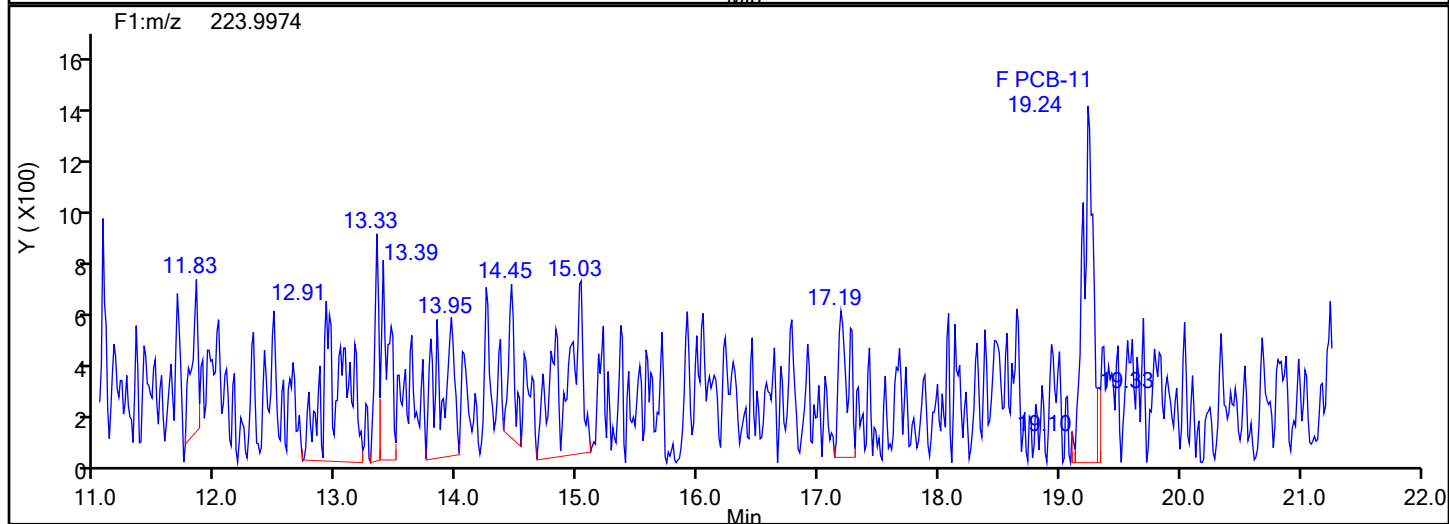
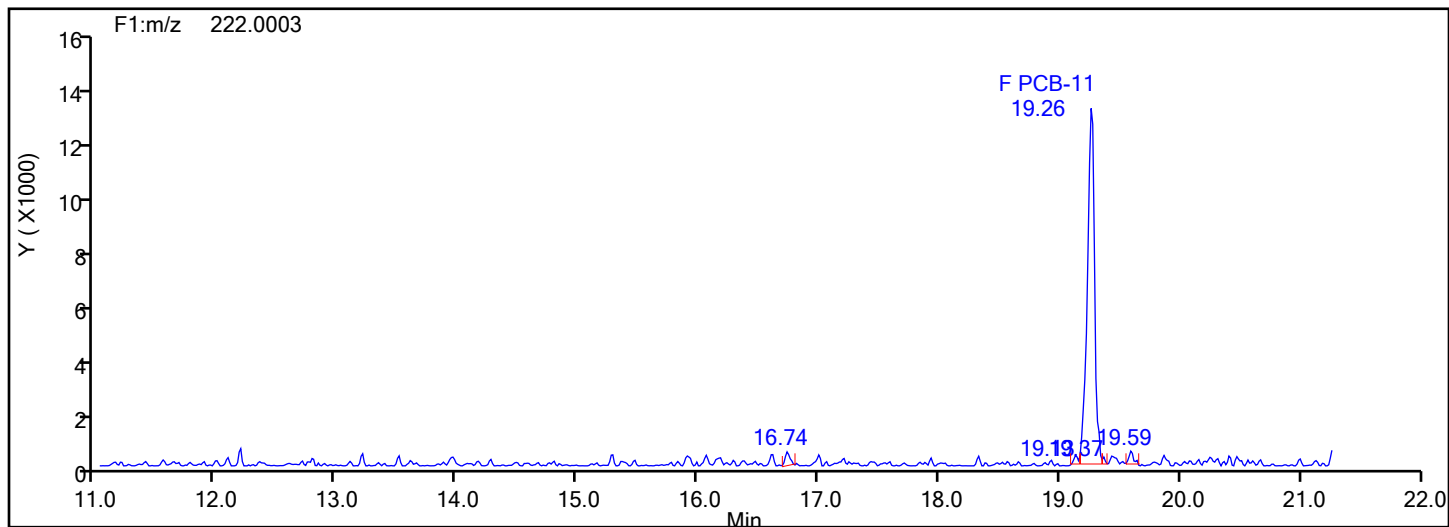
Worklist#: 87502

Sample Line#: 8

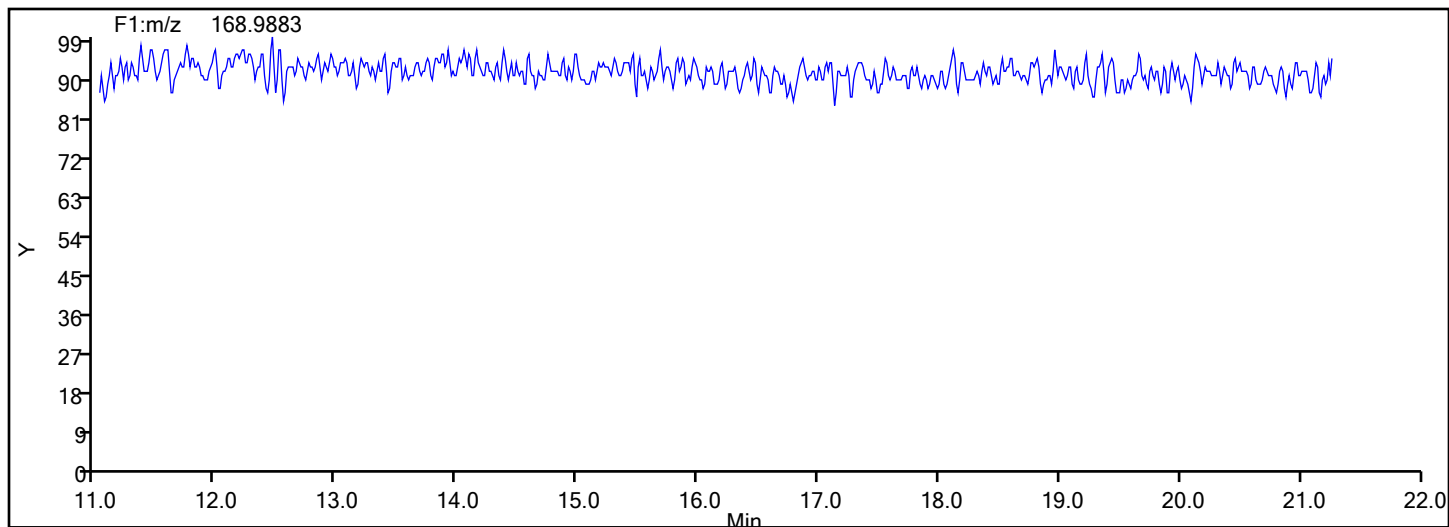
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

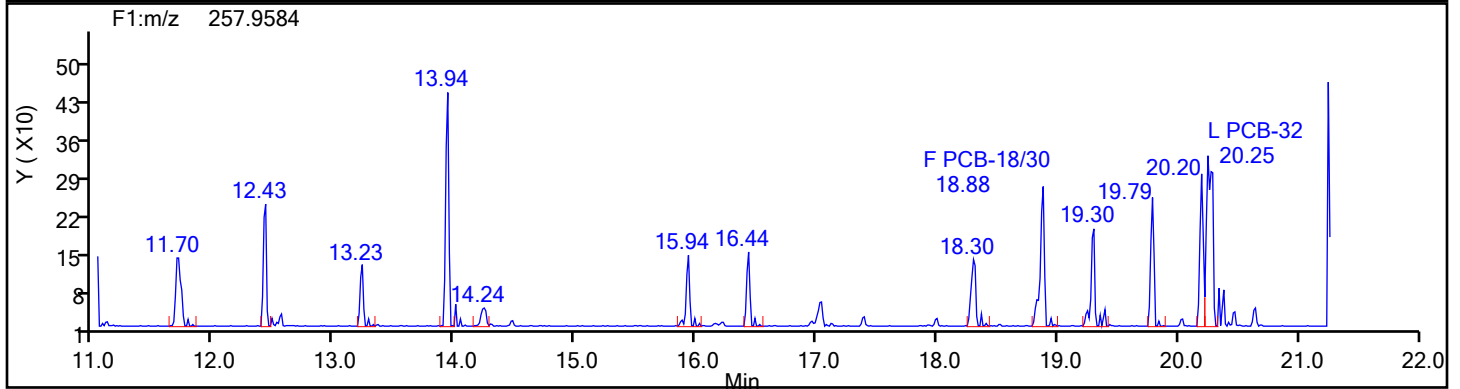
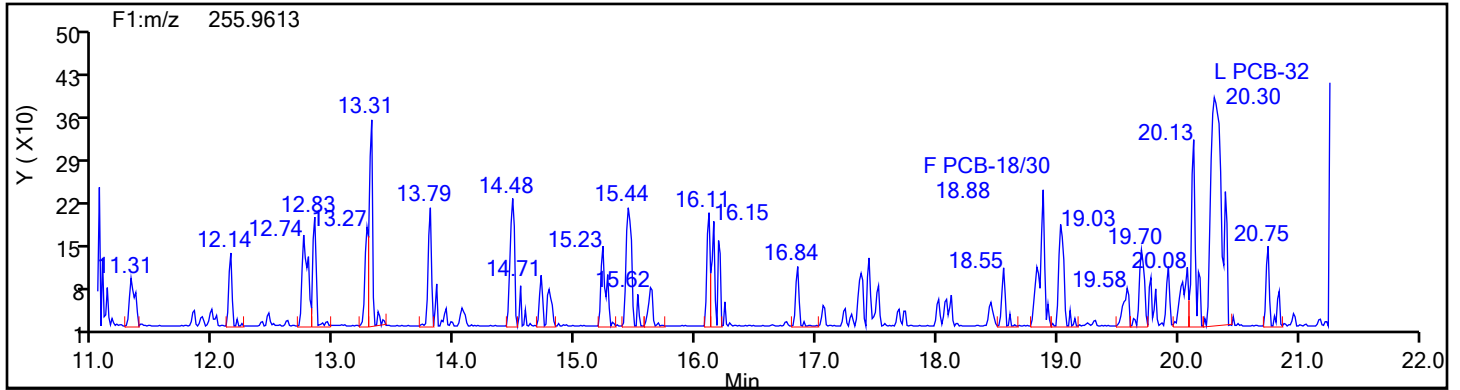
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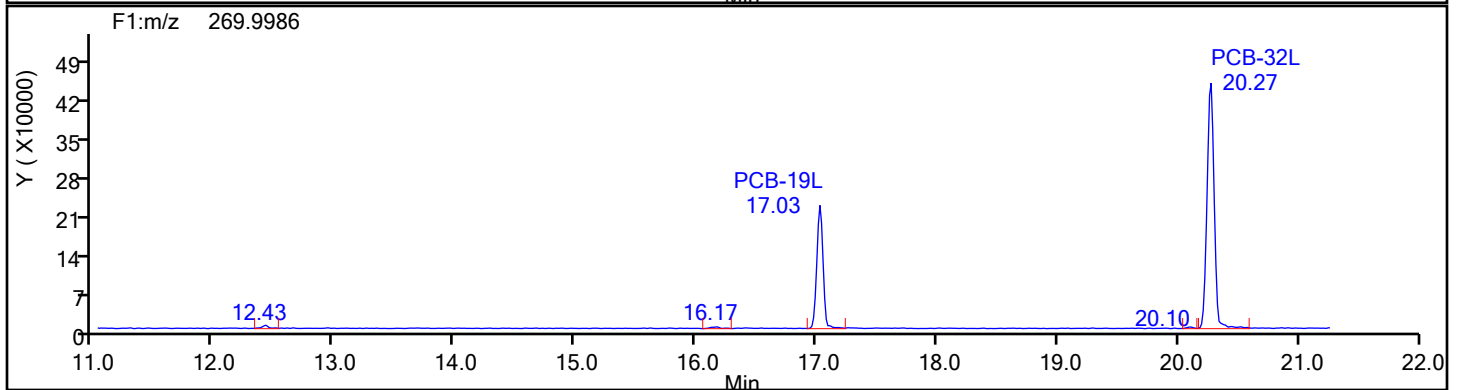
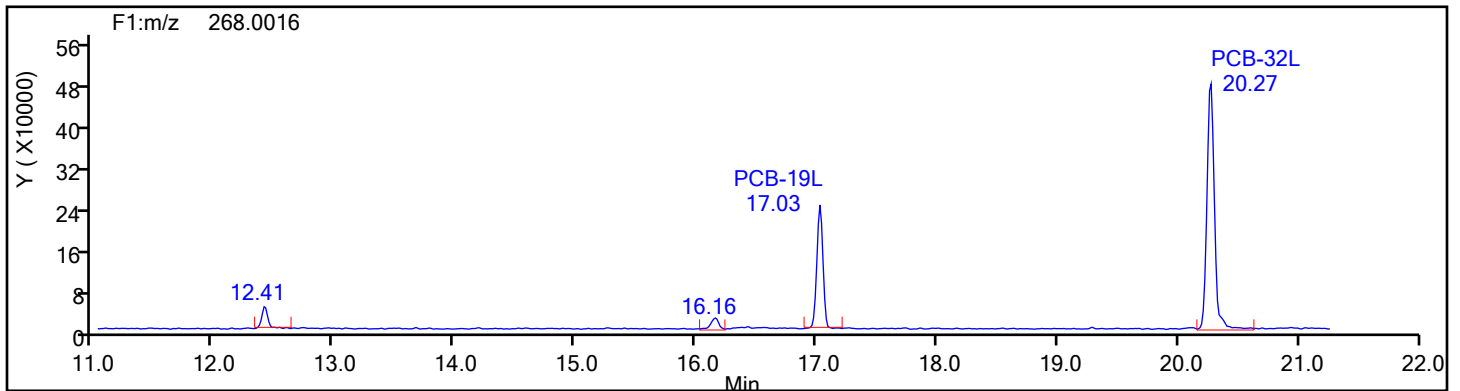
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

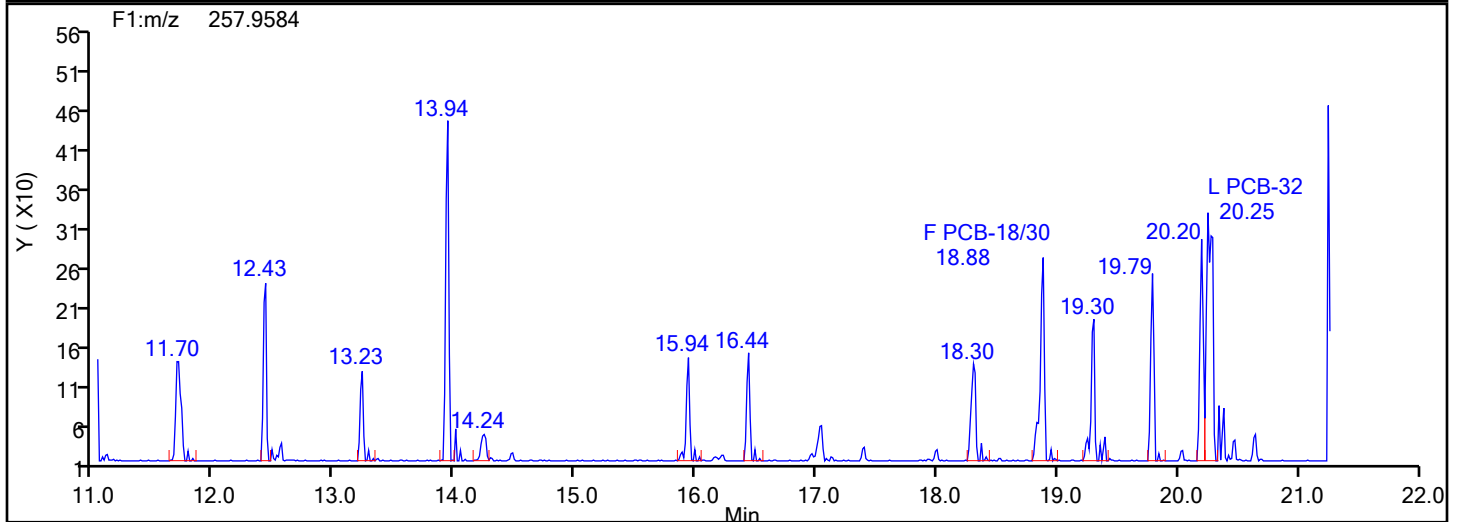
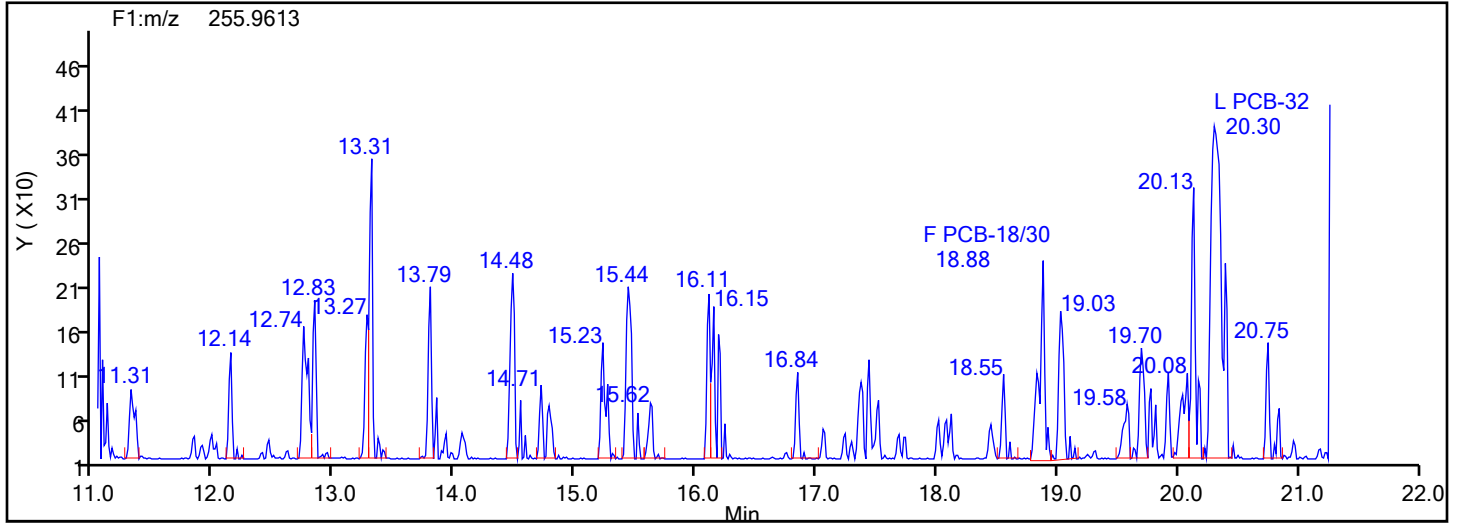
Worklist#: 87502

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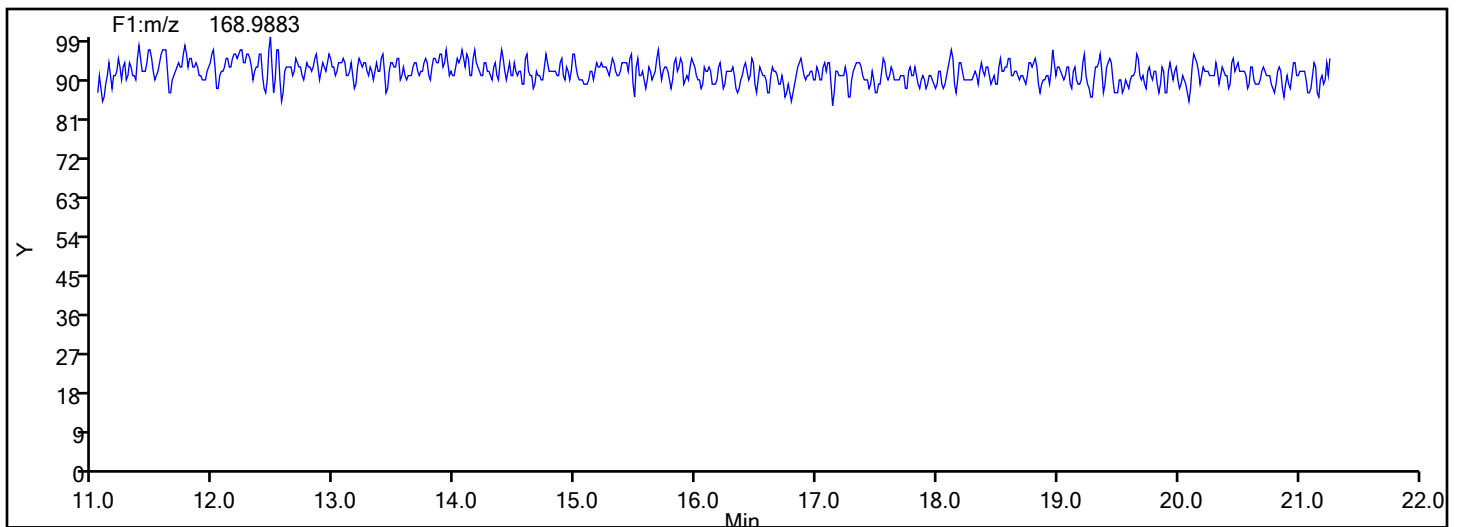
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Instrument ID: D2D

Lims ID: MB 140-87206/17-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

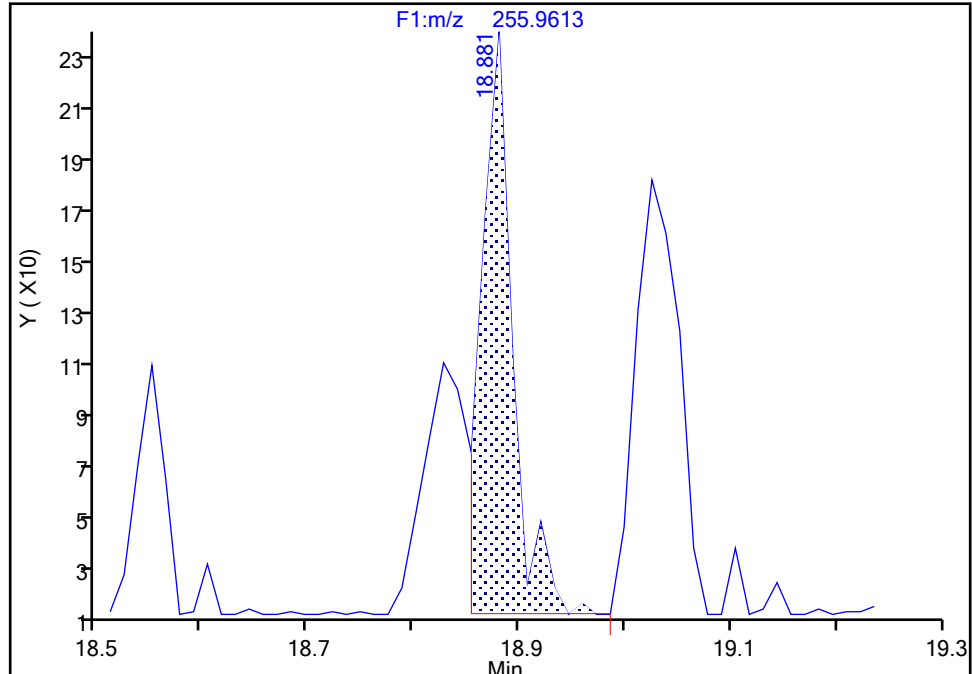
F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 1

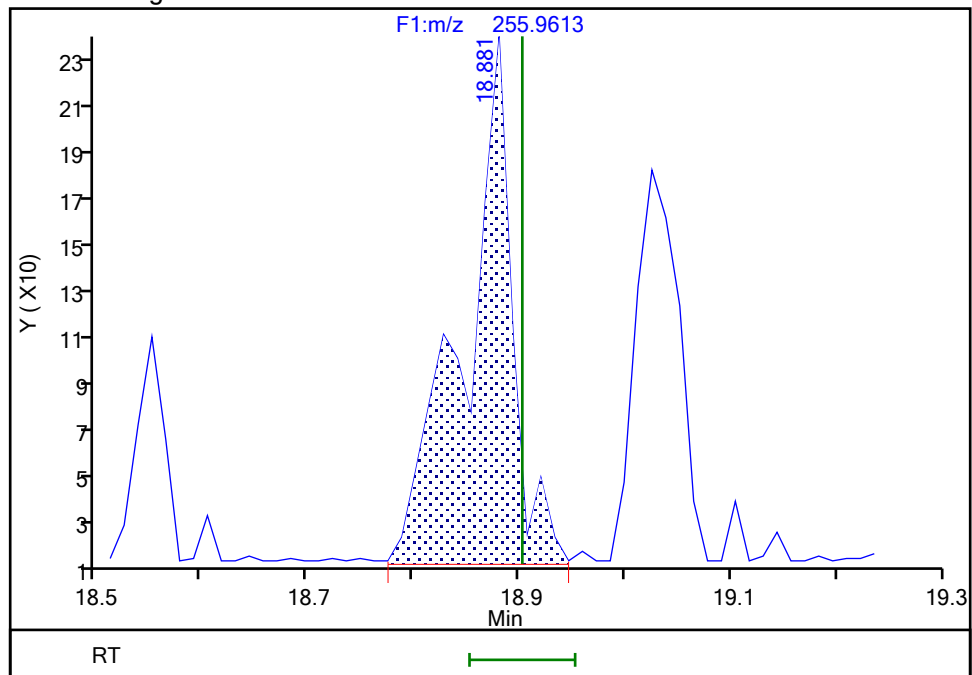
RT: 18.88
Area: 437
Amount: 0.036262
Amount Units: pg/ul

Processing Integration Results



RT: 18.88
Area: 702
Amount: 0.045294
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 16:16:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Chrom Revision: 2.3 20-May-2024 22:00:34

Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

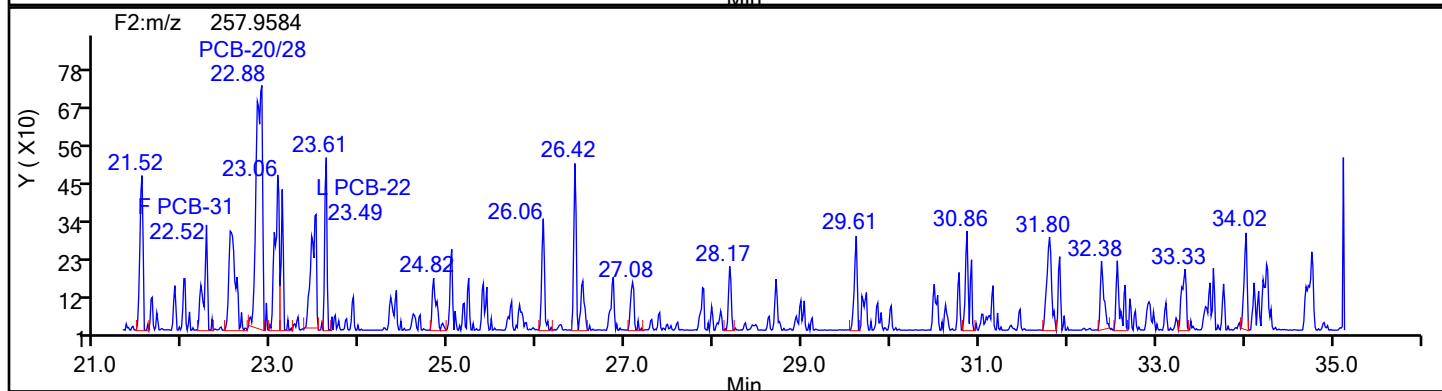
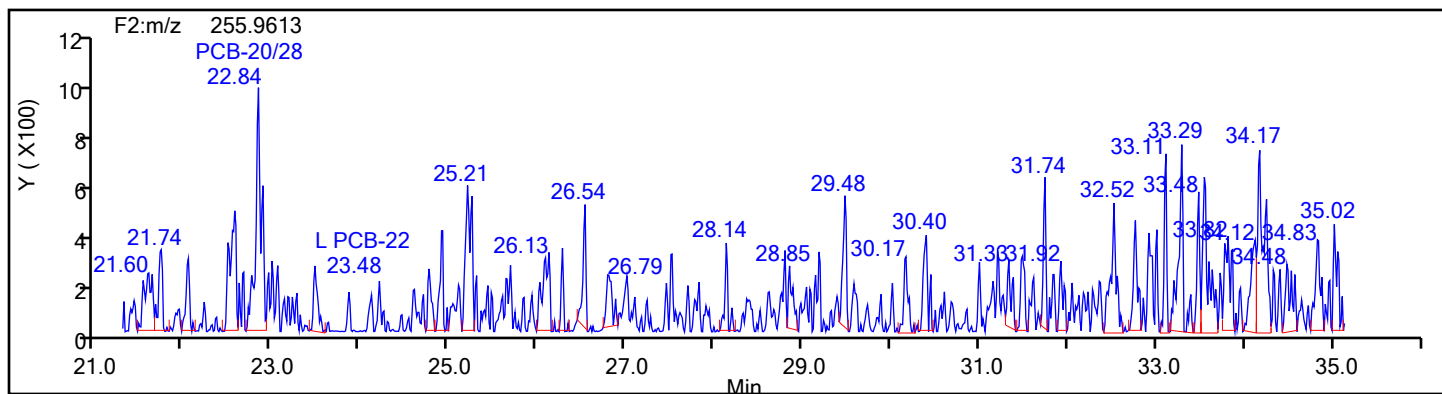
Worklist#: 87502

Sample Line#: 8

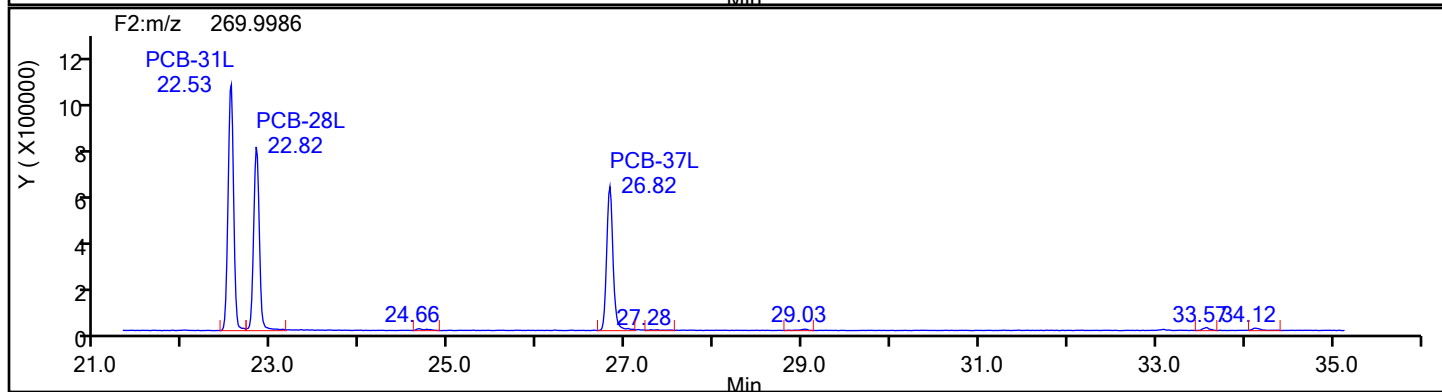
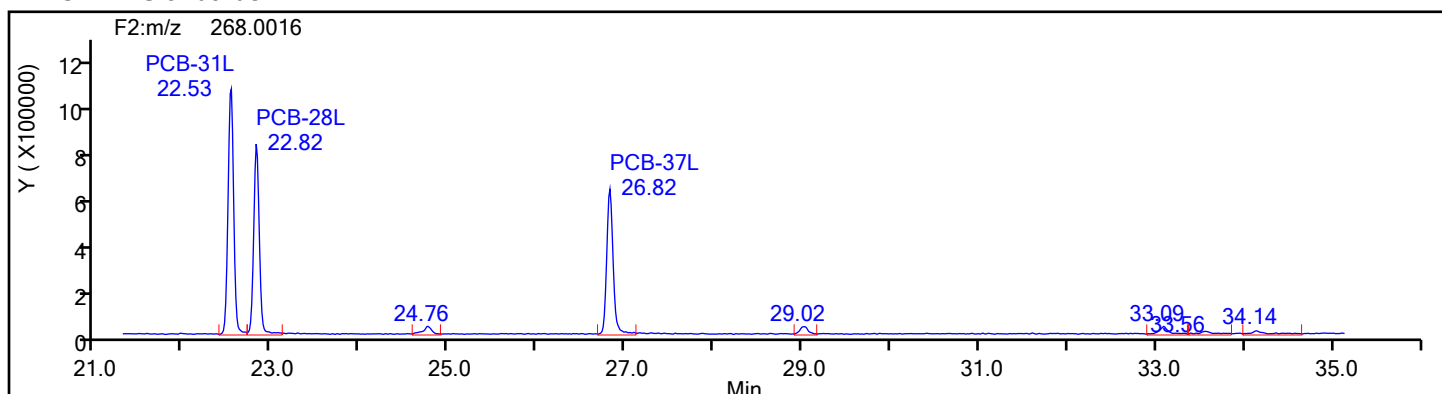
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

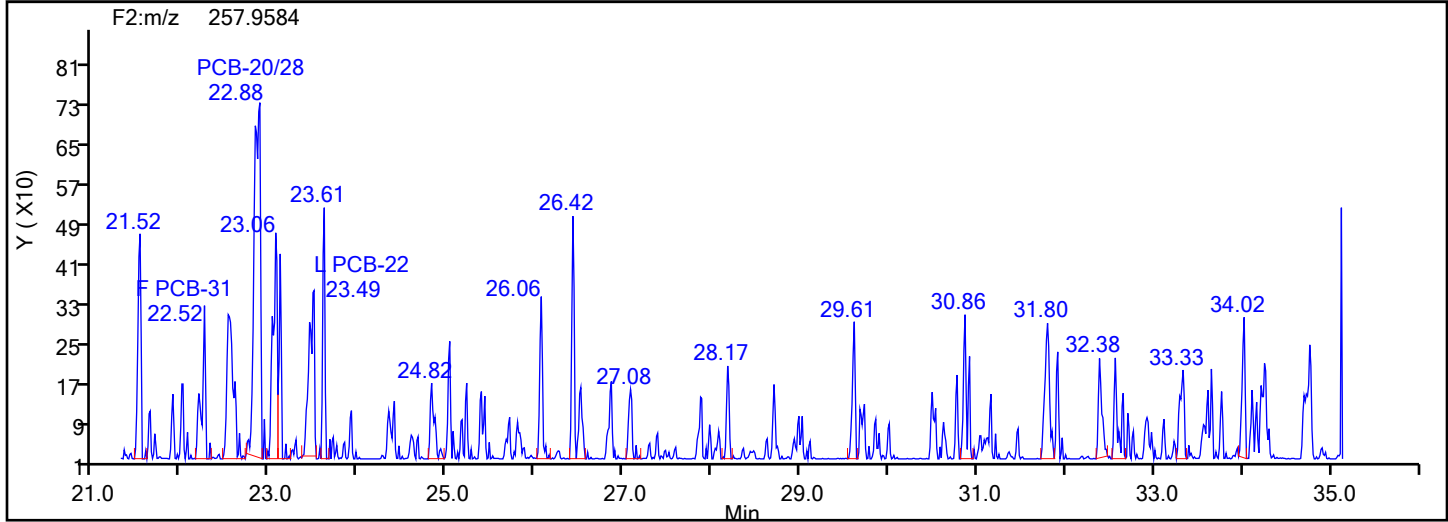
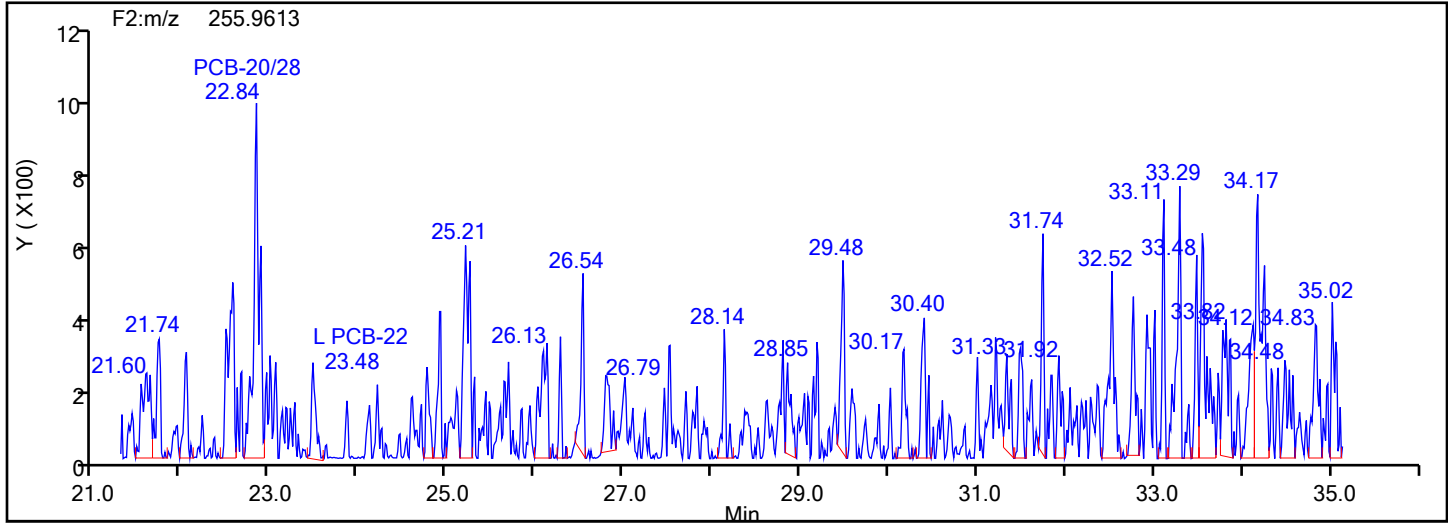
Worklist#: 87502

Sample Line#: 8

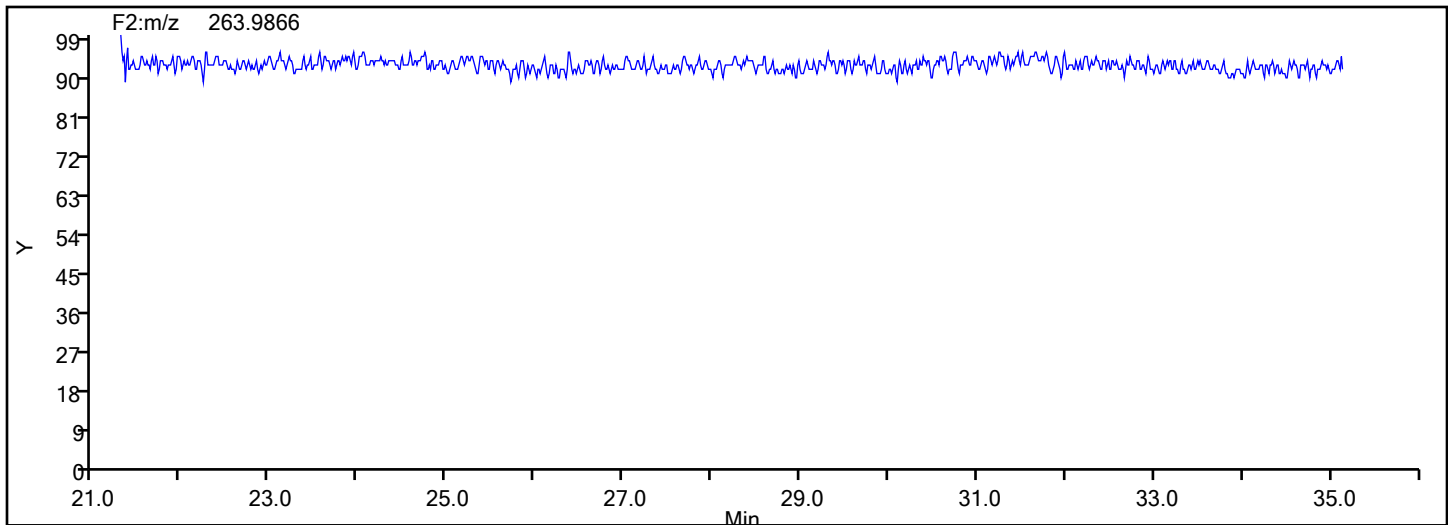
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Instrument ID: D2D

Lims ID: MB 140-87206/17-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

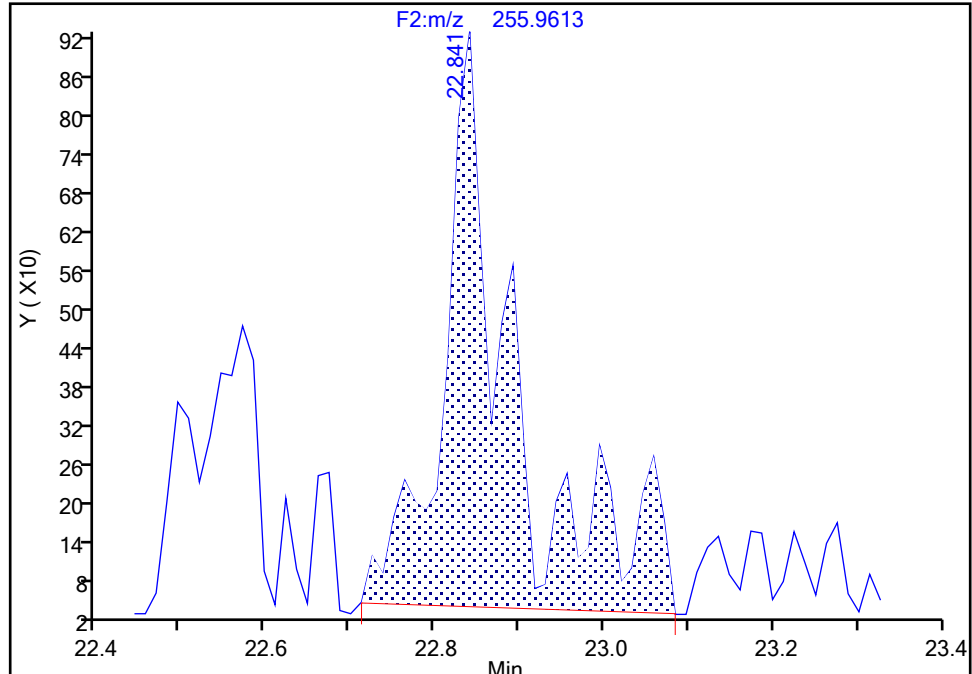
F2(21.81 :35.54)

PCB-20/28, CAS: STL01799

Signal: 1

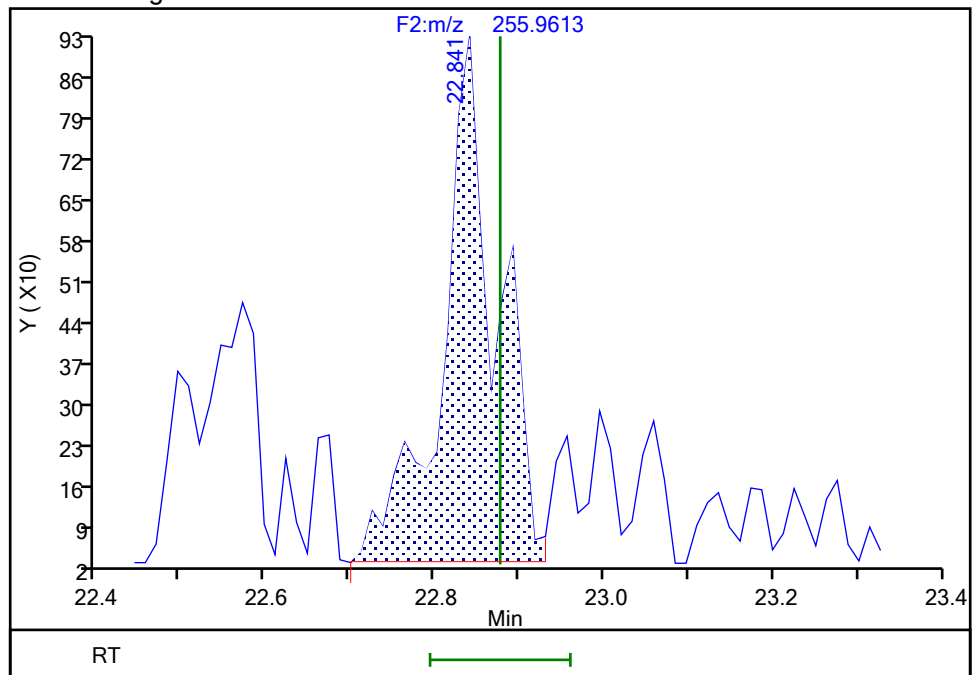
RT: 22.84
Area: 5203
Amount: 0.121948
Amount Units: pg/ul

Processing Integration Results



RT: 22.84
Area: 4060
Amount: 0.105937
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 16:16:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

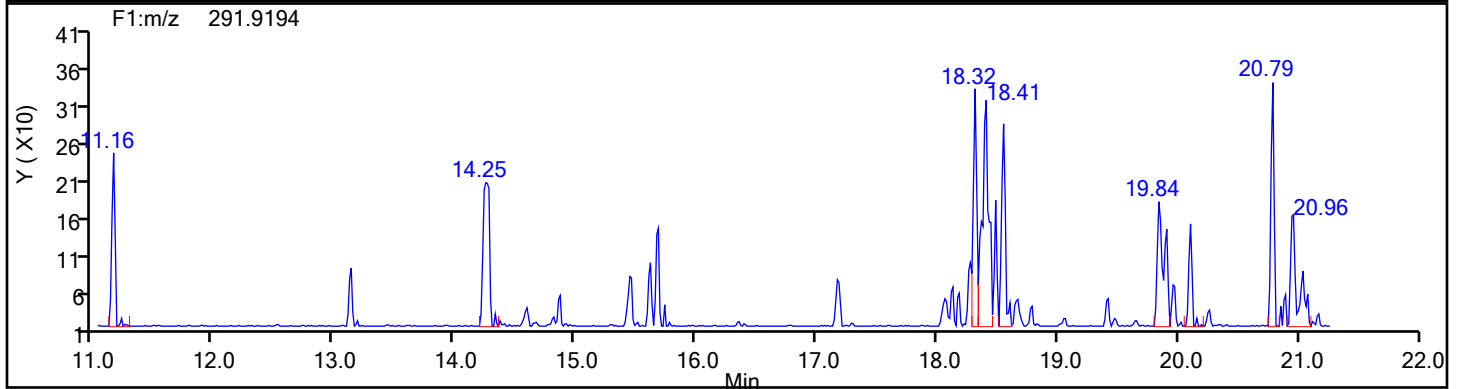
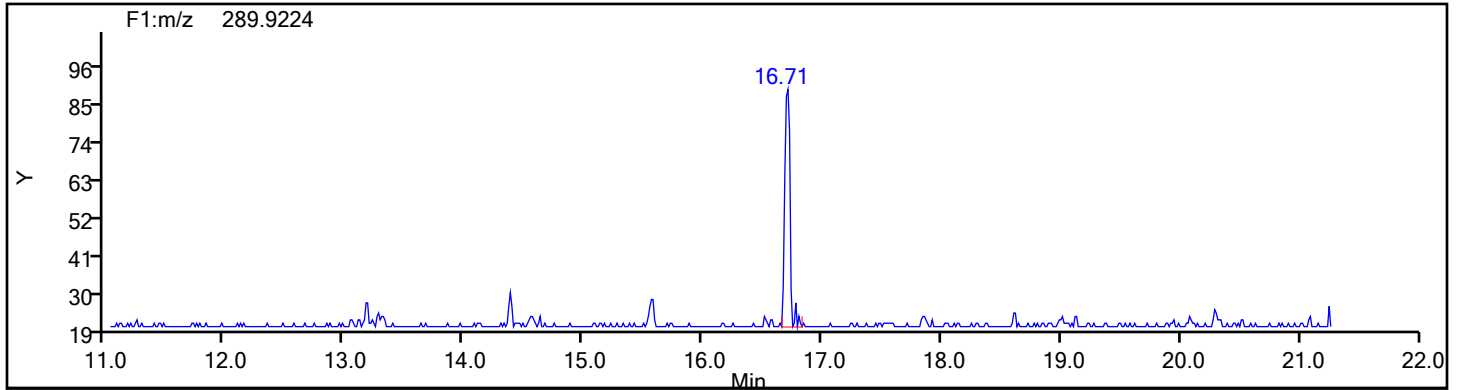
Worklist#: 87502

Sample Line#: 8

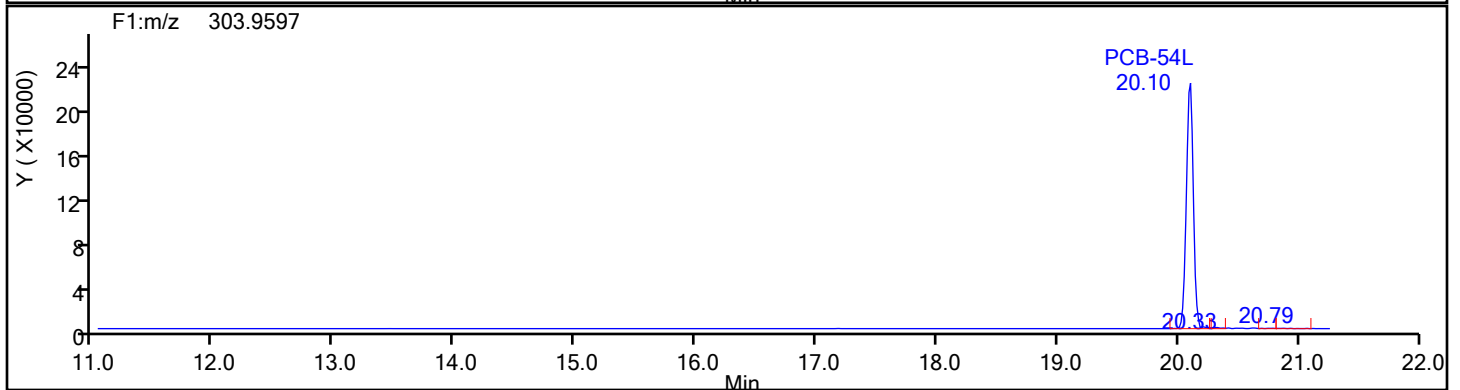
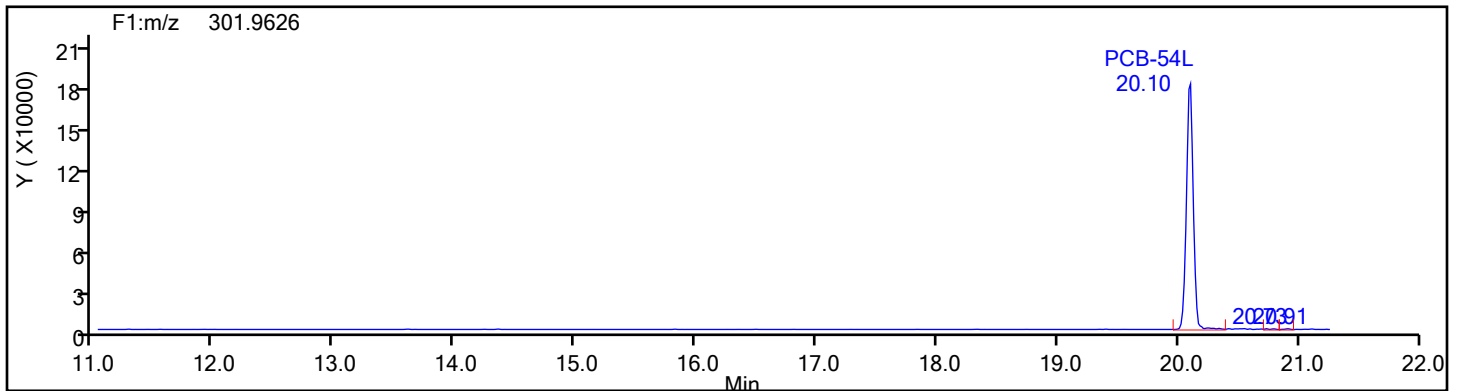
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

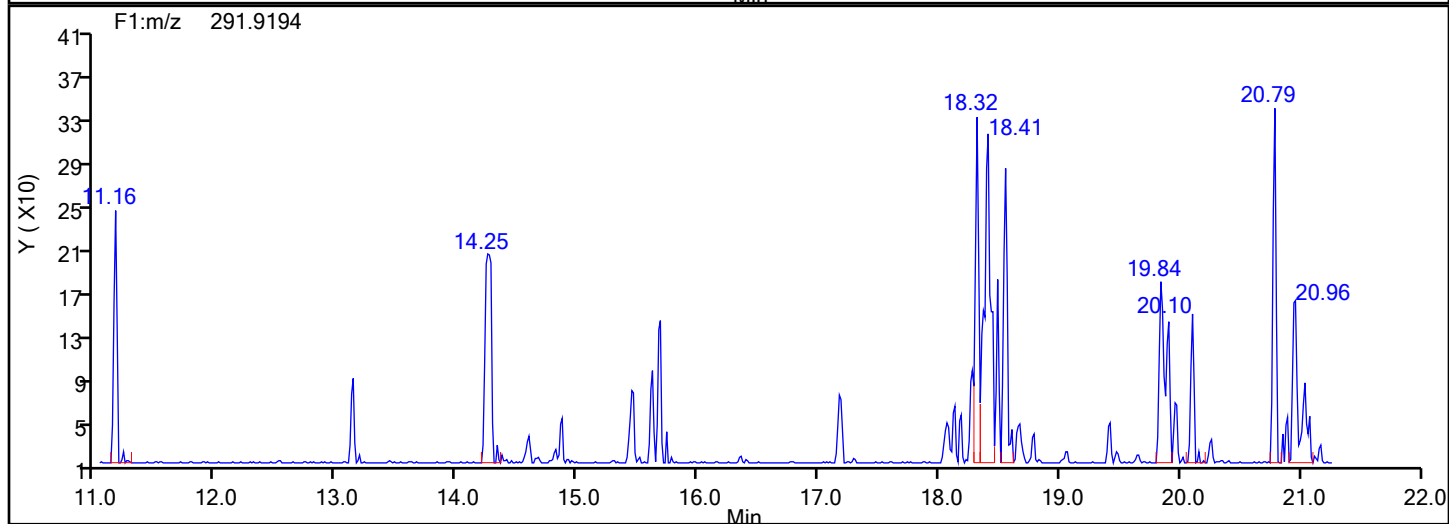
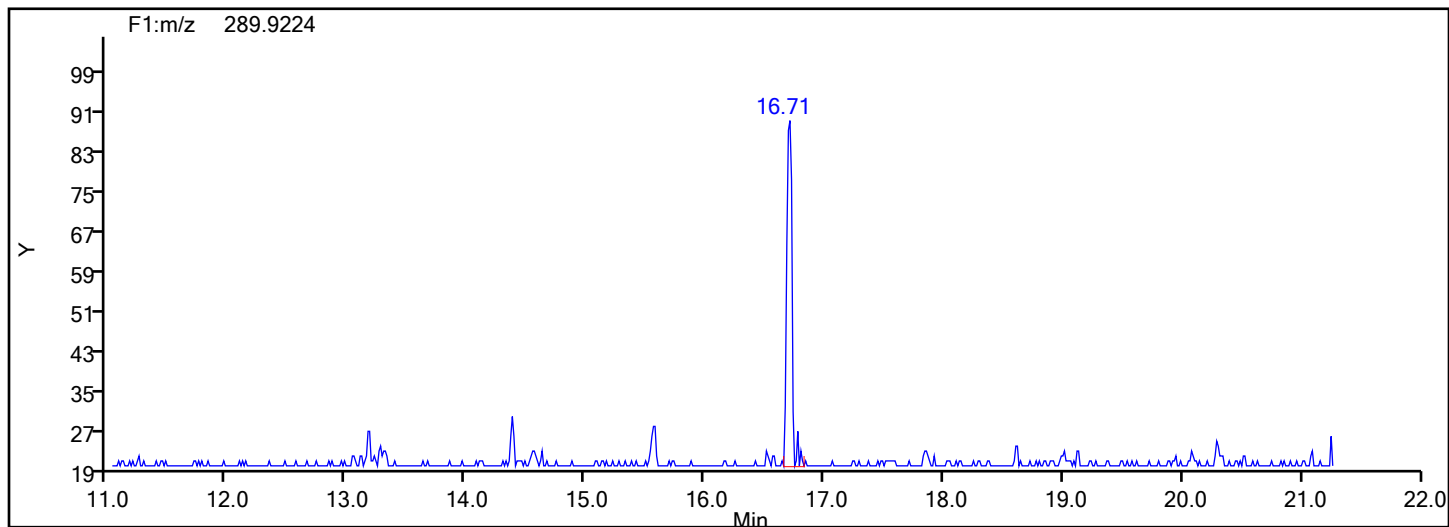
Worklist#: 87502

Sample Line#: 8

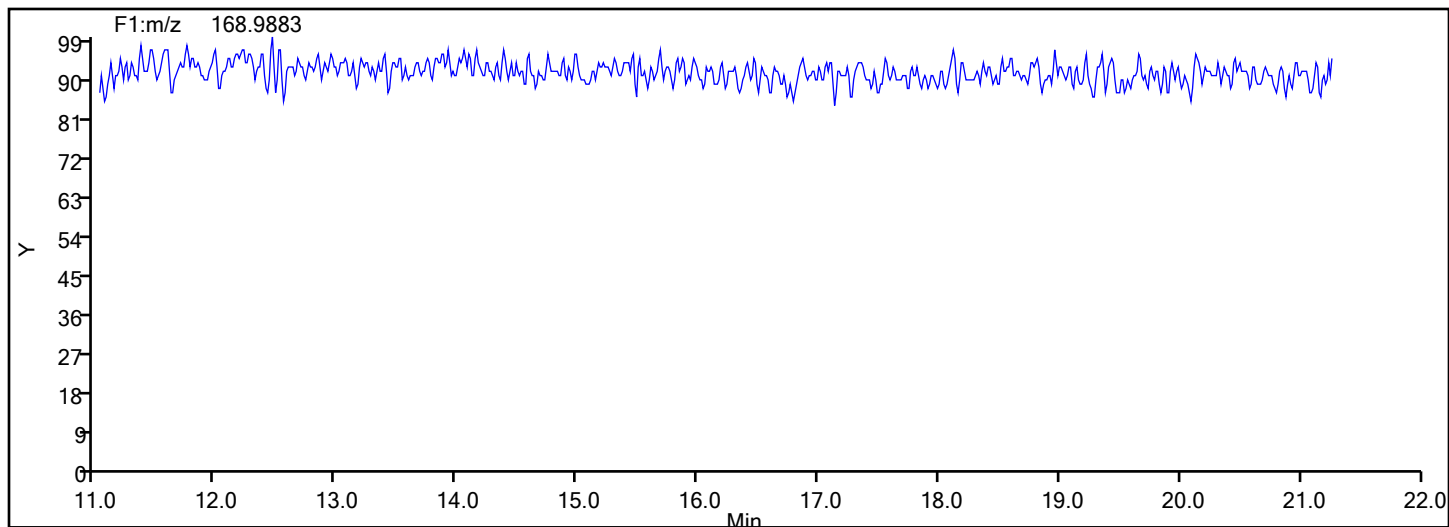
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

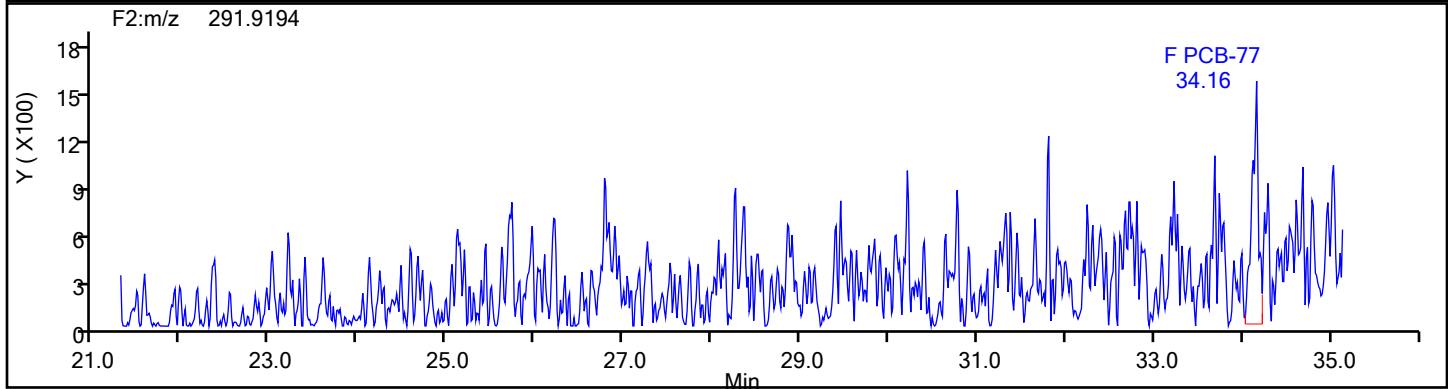
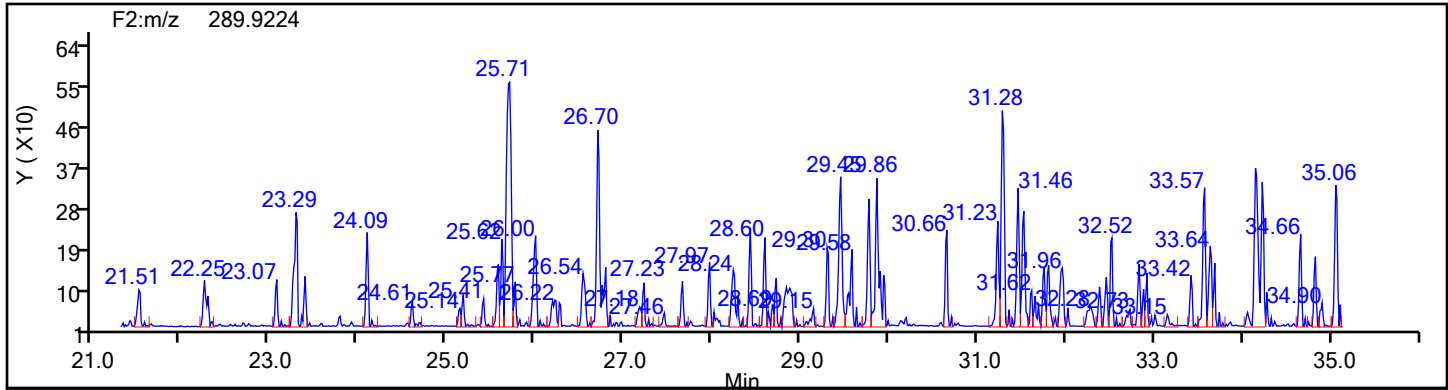
Worklist#: 87502

Sample Line#: 8

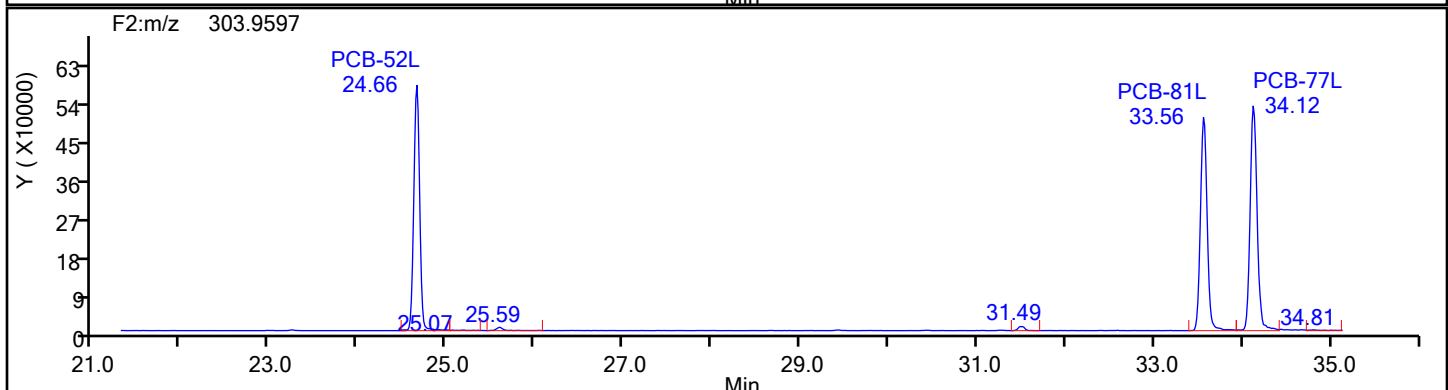
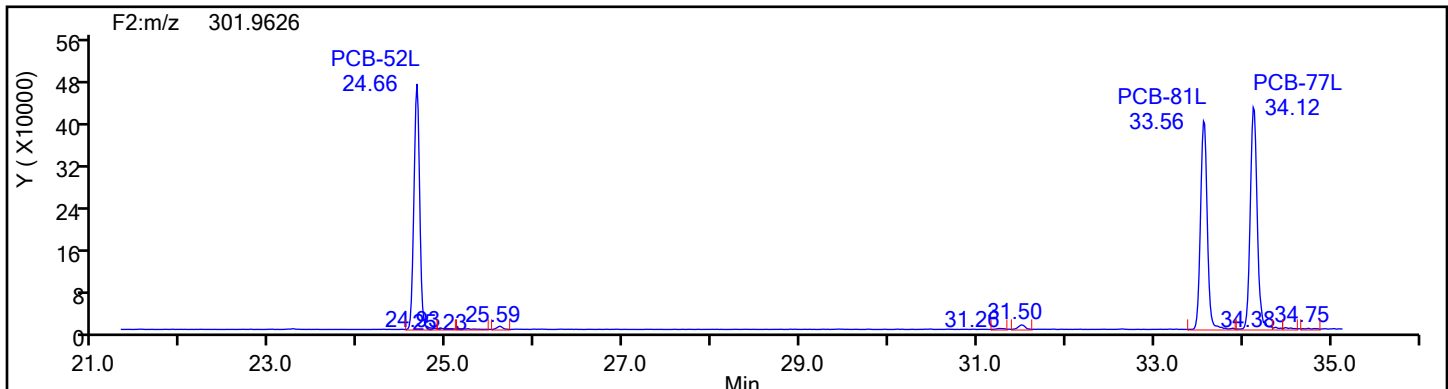
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

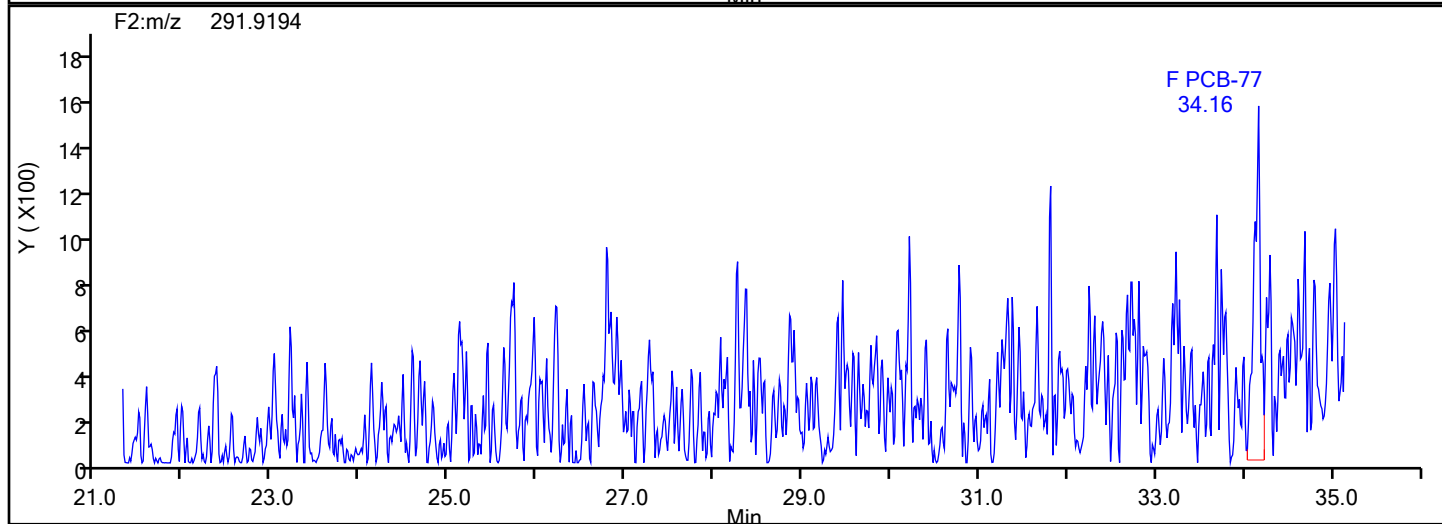
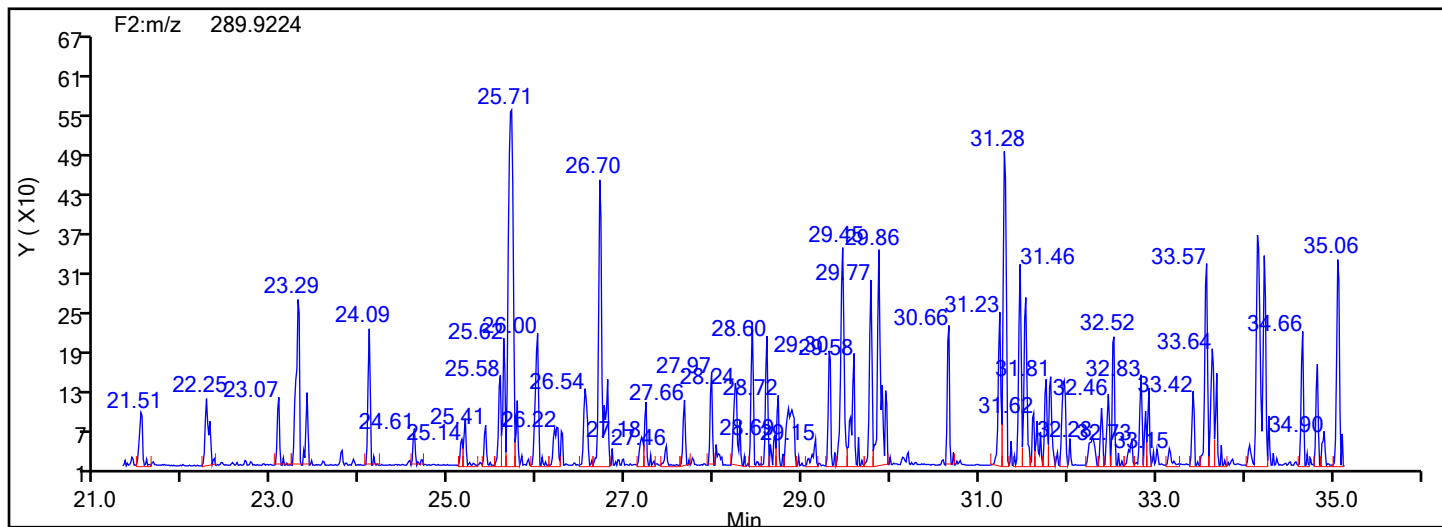
Worklist#: 87502

Sample Line#: 8

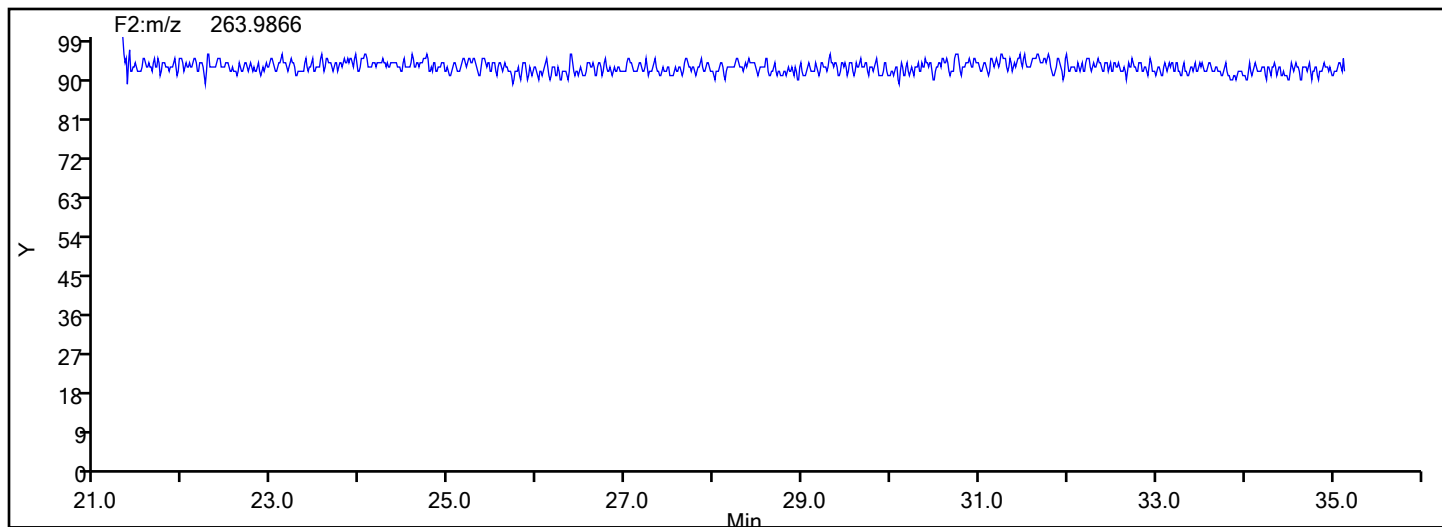
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d			
Injection Date:	11-Jun-2024 15:03:00	Instrument ID:	D2D	
Lims ID:	MB 140-87206/17-B			
Client ID:				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB I	
Column:	SPB-Octyl (0.25 mm)	Detector	F2(21.81 :35.54)	

```

ALS Bottle#:      0          Worklist Smp#:      8
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F2(21.81 :35.54 )

```

Signal: 2

Not Detected
Expected RT: 34.16

Chromatogram showing detector response (Y-axis, labeled Y (X100)) versus time (X-axis, labeled Min). The plot displays a complex signal with multiple peaks. A prominent peak is labeled with its retention time, 291.914, and its mass-to-charge ratio, F2:m/z.

RT: 34.16
Area: 7302
Amount: 0.156807
Amount Units: pg/ul

Audit Reason: Incomplete Integration

Eurofins Knoxville

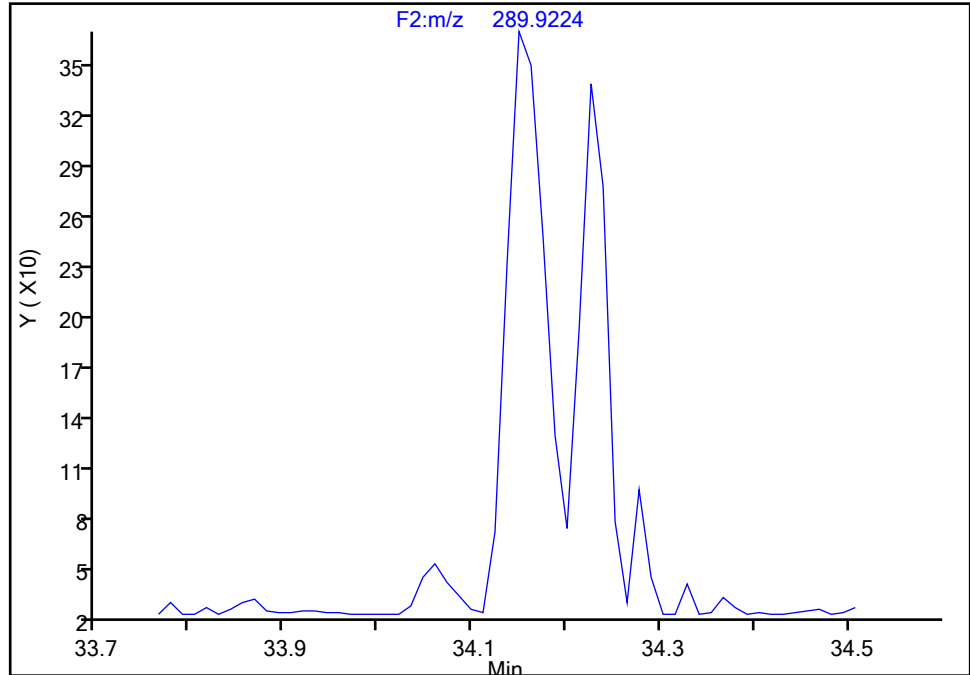
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d
Injection Date: 11-Jun-2024 15:03:00 Instrument ID: D2D
Lims ID: MB 140-87206/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 1

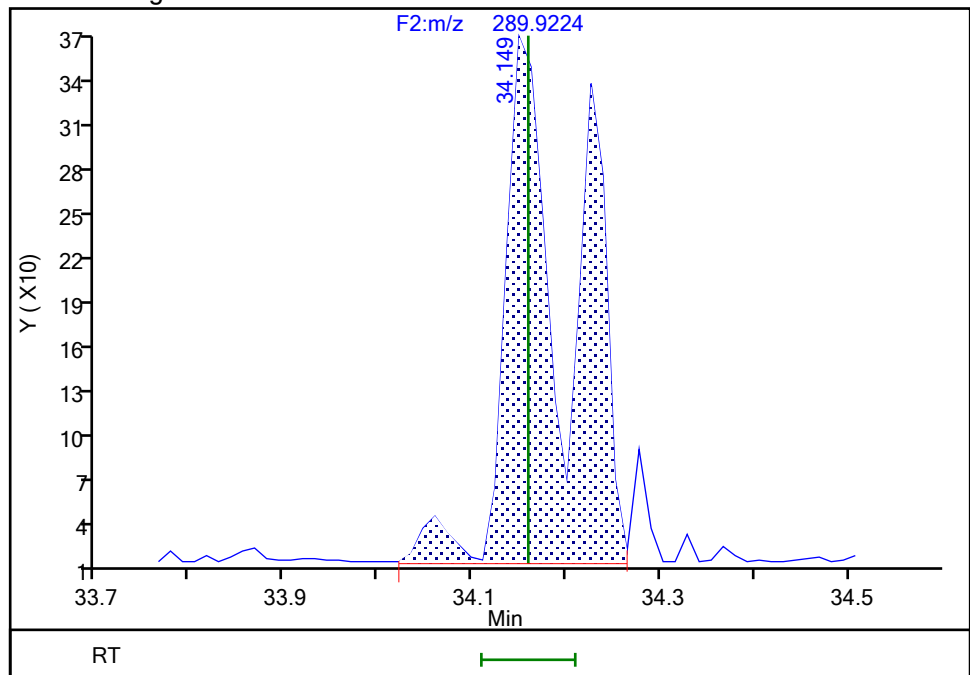
Not Detected
Expected RT: 34.16

Processing Integration Results



Manual Integration Results

RT: 34.15
Area: 1700
Amount: 0.156807
Amount Units: pg/ul



Reviewer: TT6I, 12-Jun-2024 08:35:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

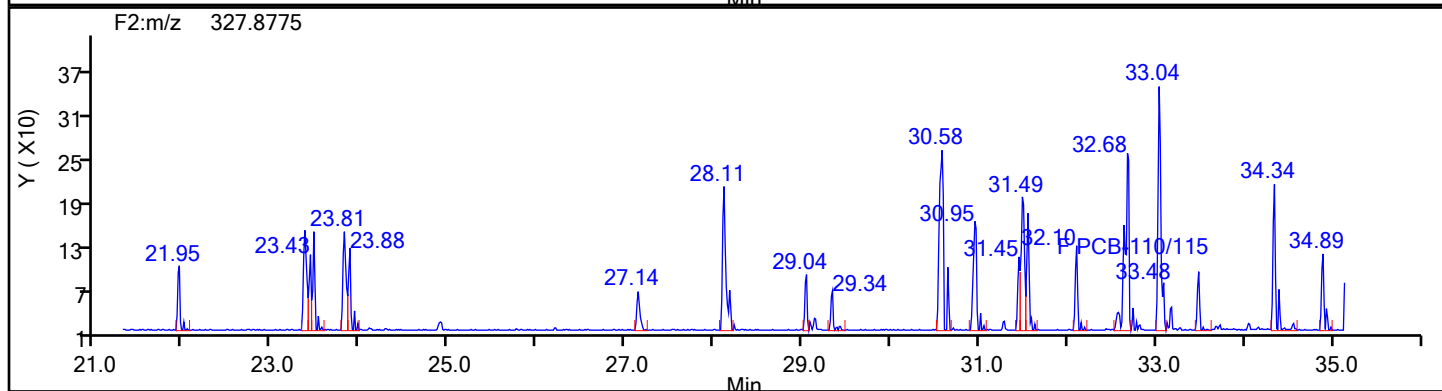
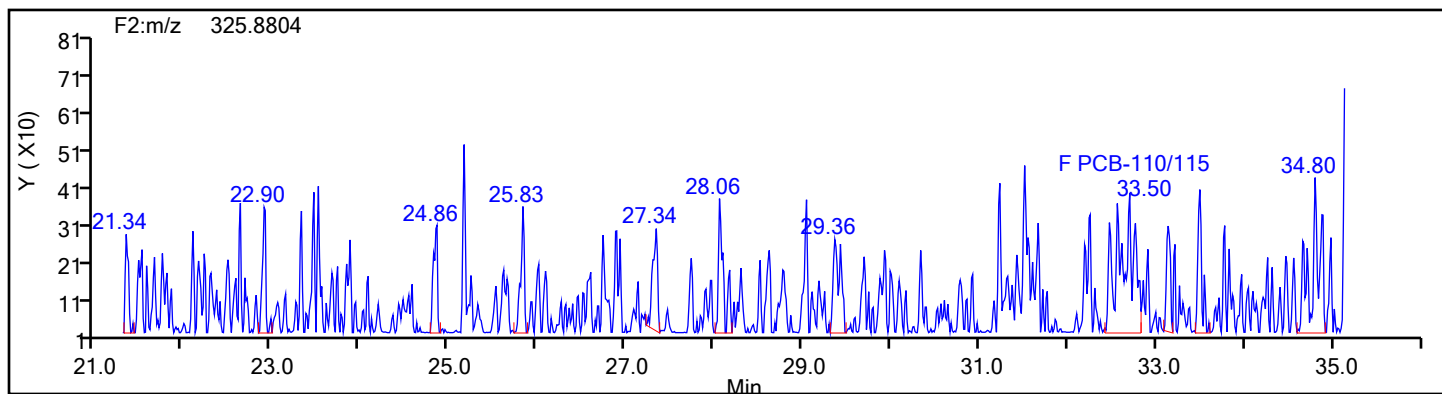
Worklist#: 87502

Sample Line#: 8

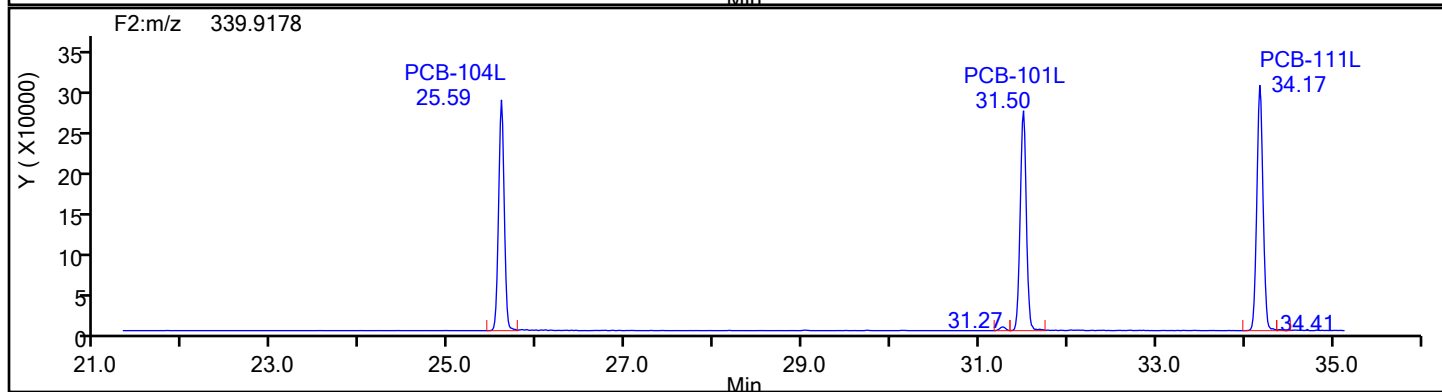
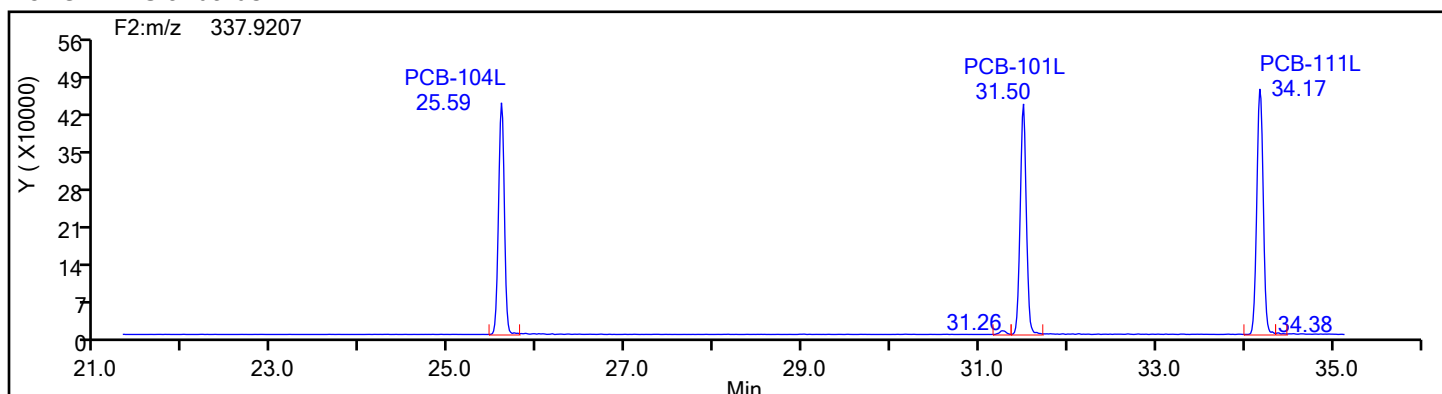
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

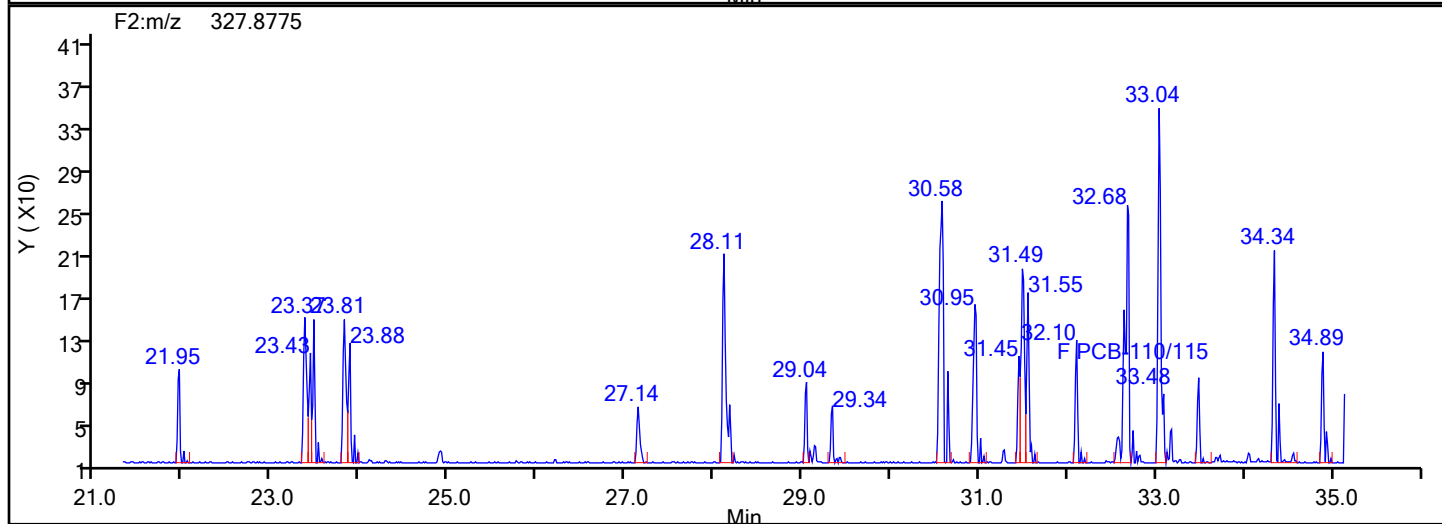
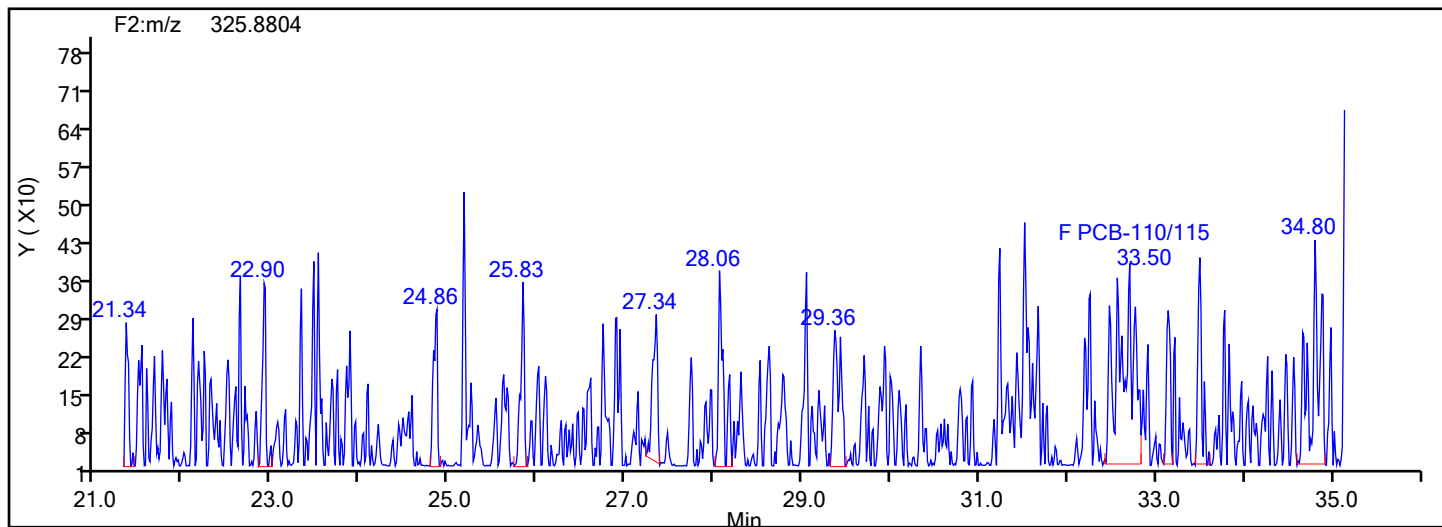
Worklist#: 87502

Sample Line#: 8

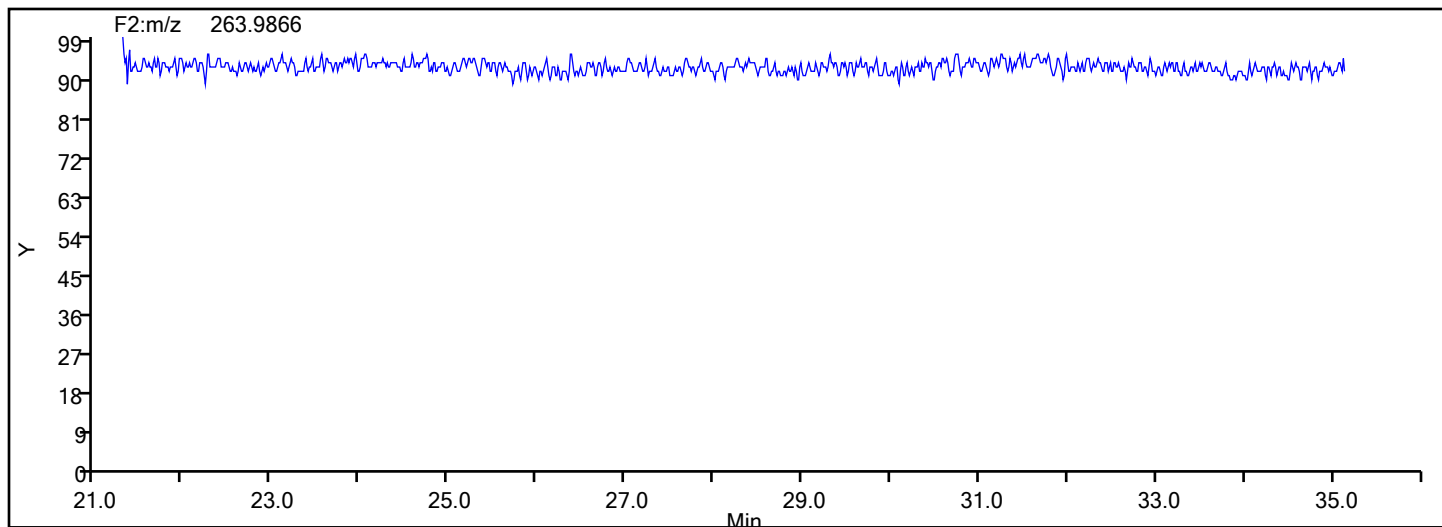
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

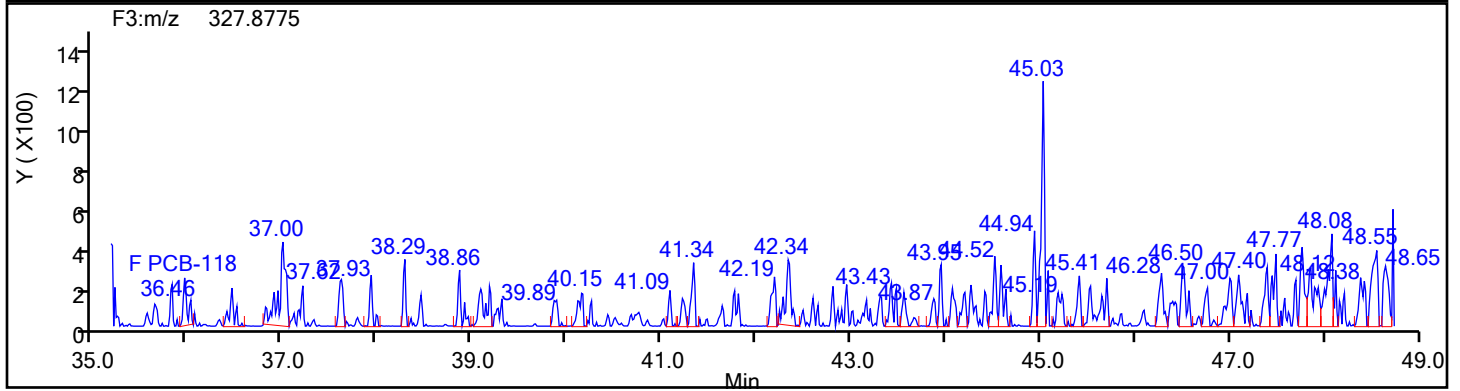
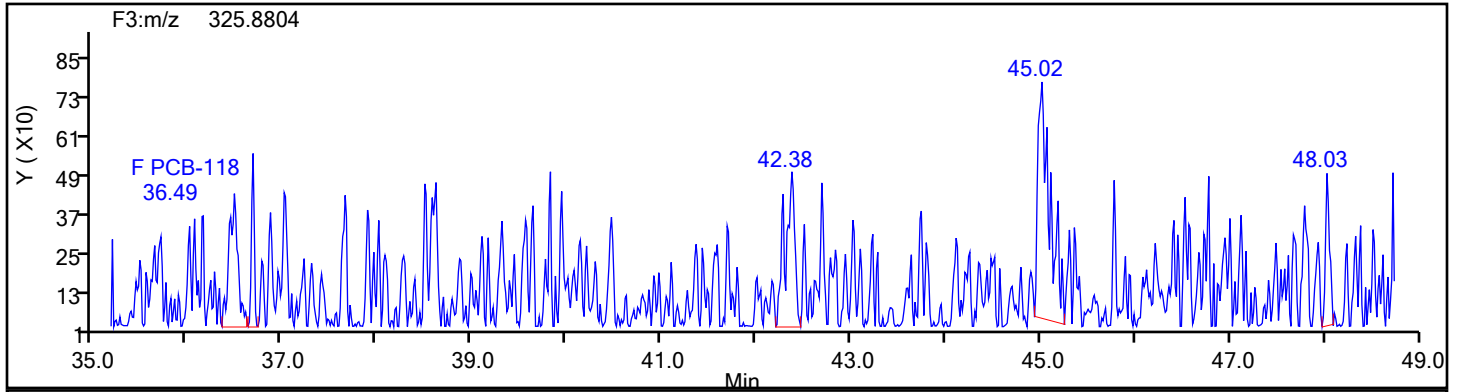
Worklist#: 87502

Sample Line#: 8

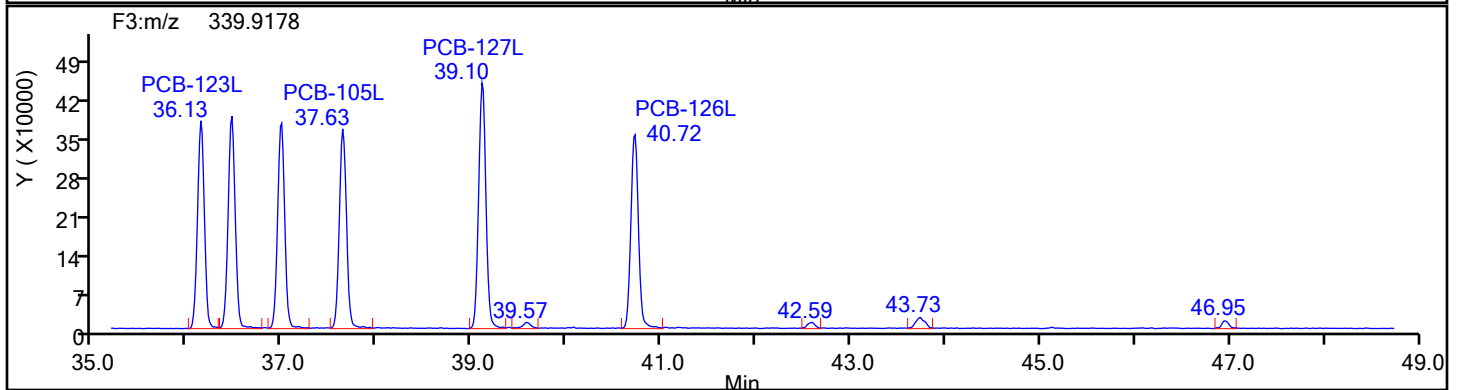
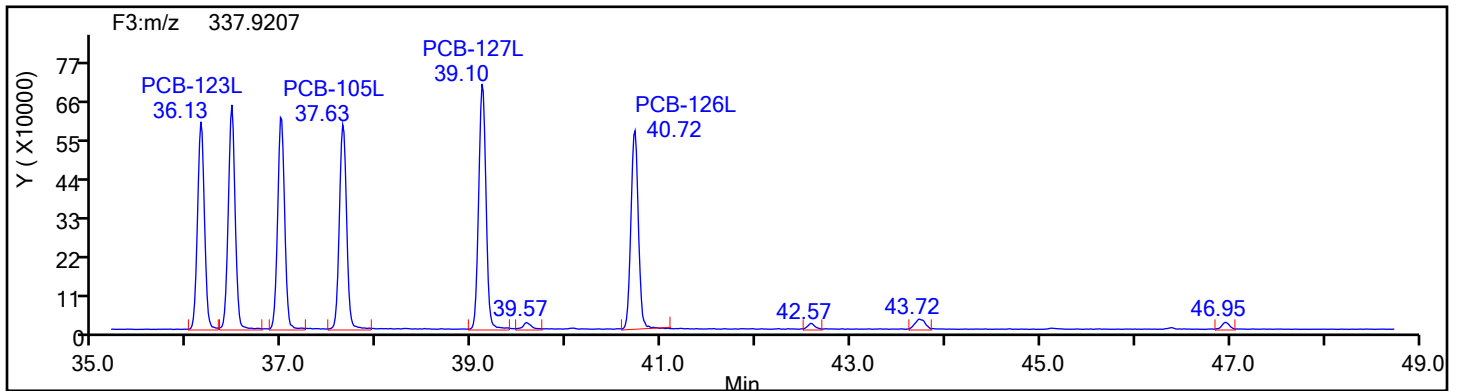
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

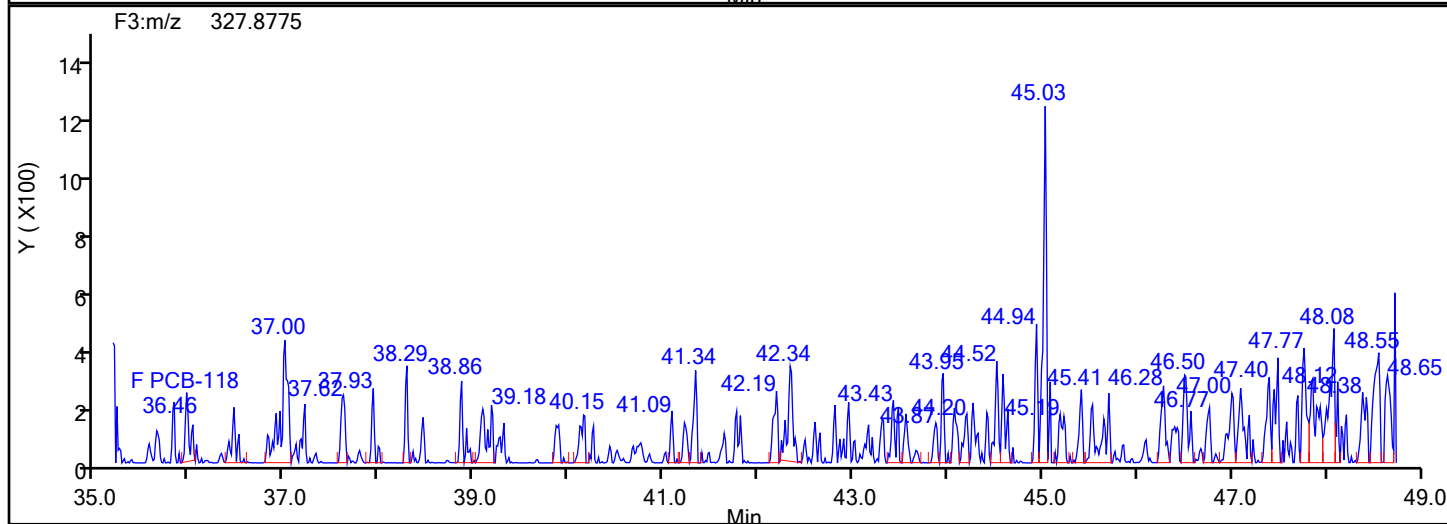
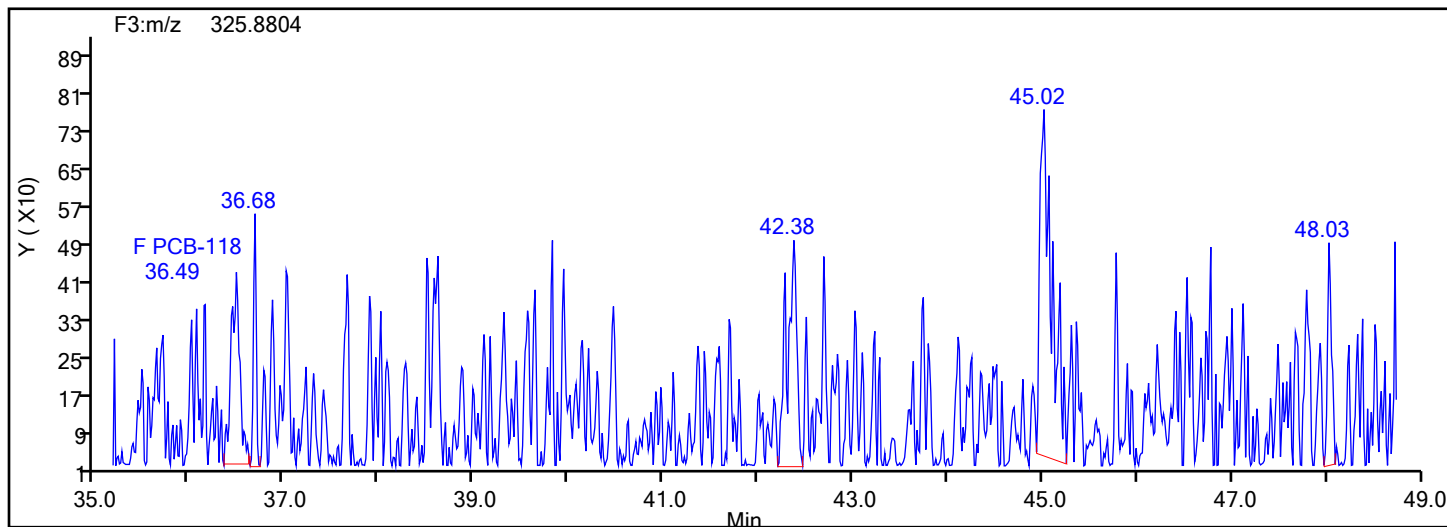
Worklist#: 87502

Sample Line#: 8

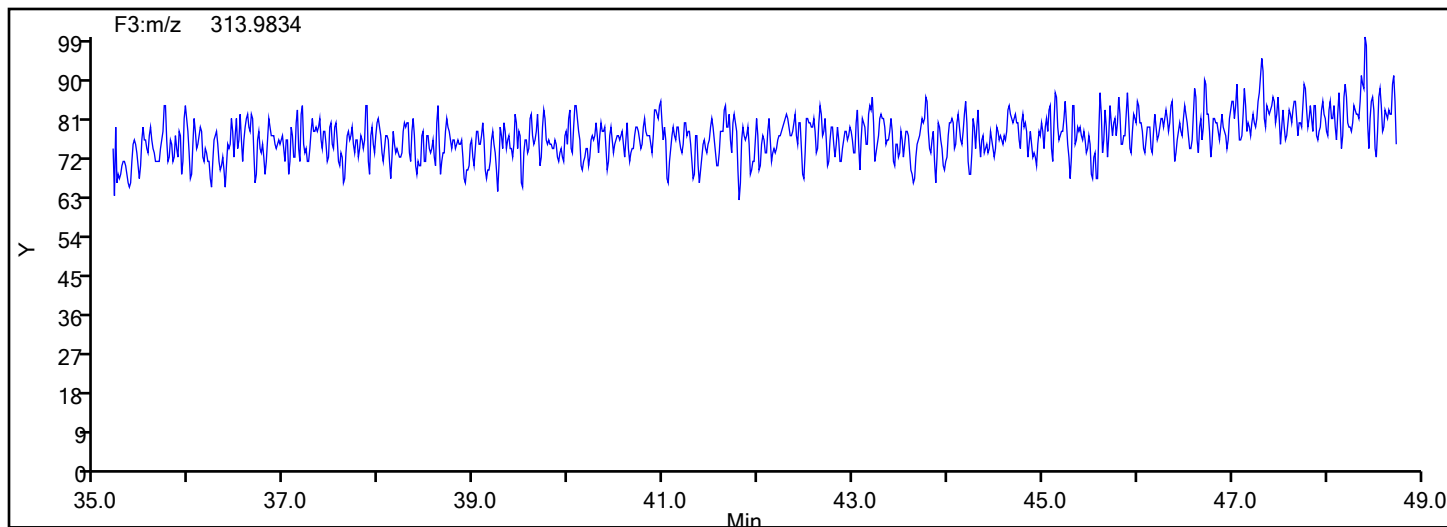
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Instrument ID: D2D

Lims ID: MB 140-87206/17-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

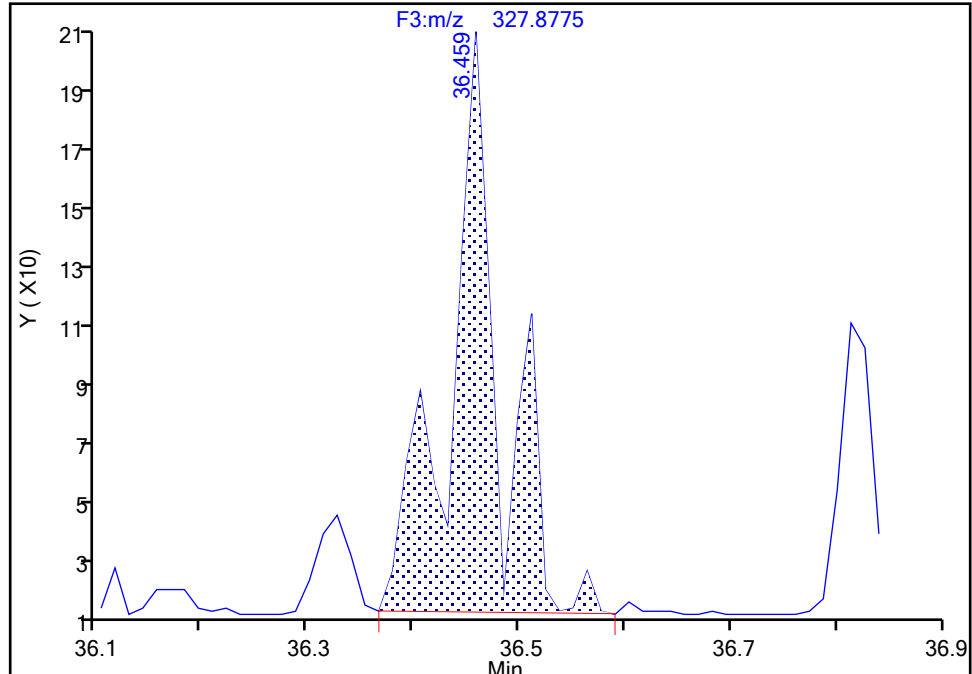
F3(35.64 :49.10)

PCB-118, CAS: 31508-00-6

Signal: 2

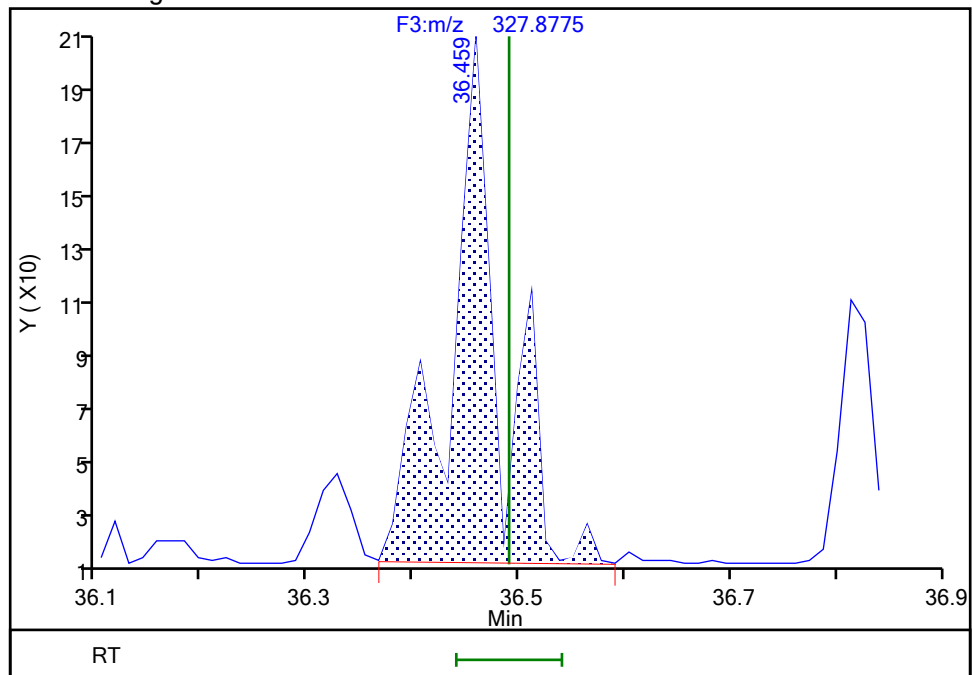
RT: 36.46
Area: 625
Amount: 0.035305
Amount Units: pg/ul

Processing Integration Results



RT: 36.46
Area: 625
Amount: 0.051452
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 16:18:12 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

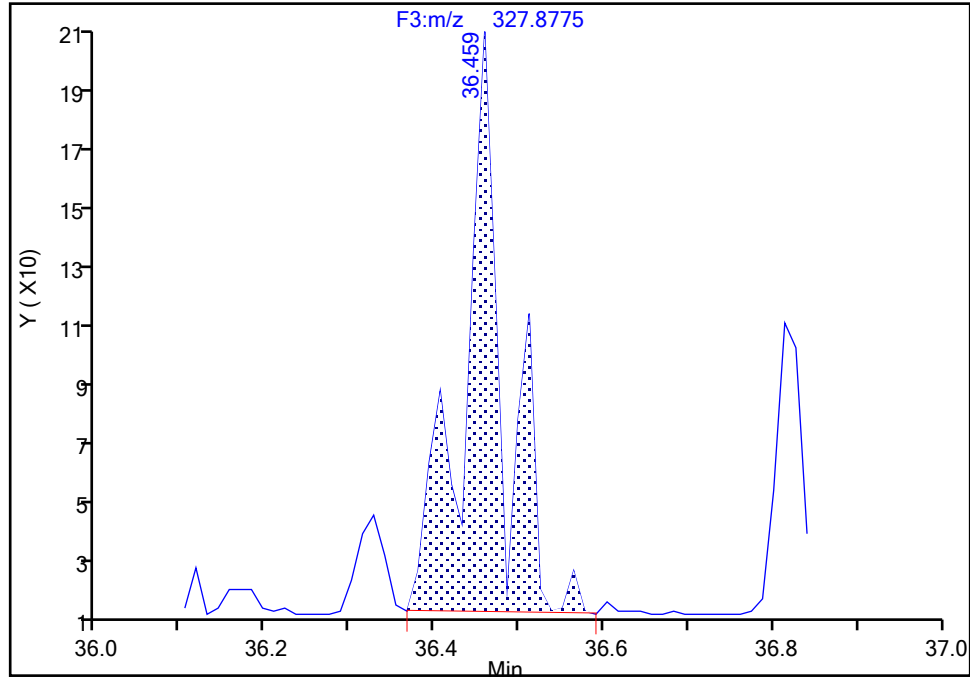
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d
Injection Date: 11-Jun-2024 15:03:00 Instrument ID: D2D
Lims ID: MB 140-87206/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-118, CAS: 31508-00-6

Signal: 3

RT: 36.49
Area: 2215
Amount: 0.035305
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 36.49
Area: 3228
Amount: 0.051452
Amount Units: pg/ul
Reviewer: POIK, 11-Jun-2024 16:18:12 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Knoxville

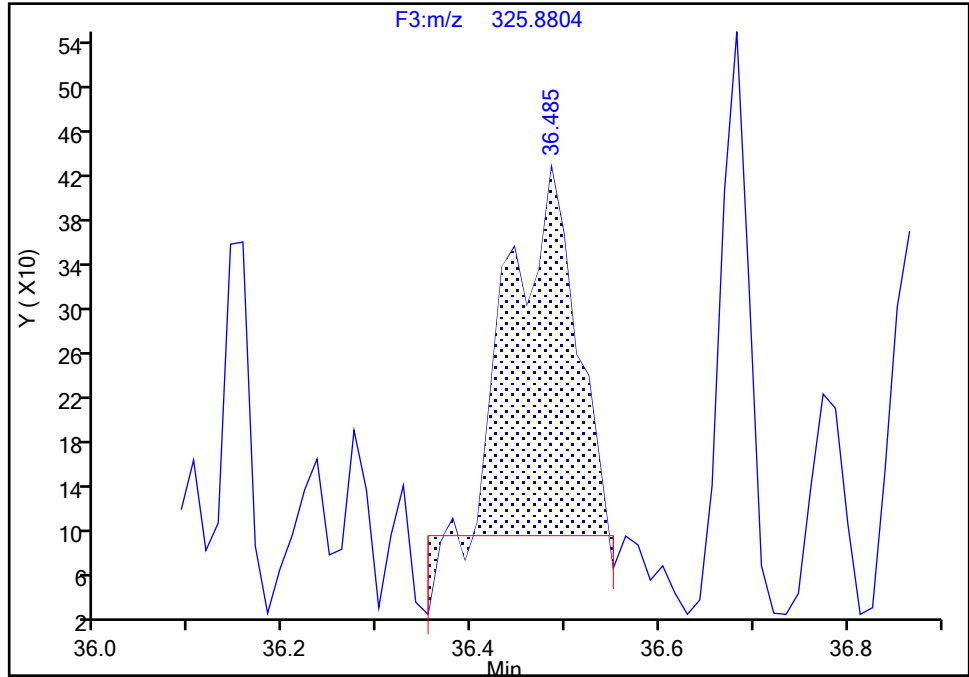
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d
Injection Date: 11-Jun-2024 15:03:00 Instrument ID: D2D
Lims ID: MB 140-87206/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-118, CAS: 31508-00-6

Signal: 1

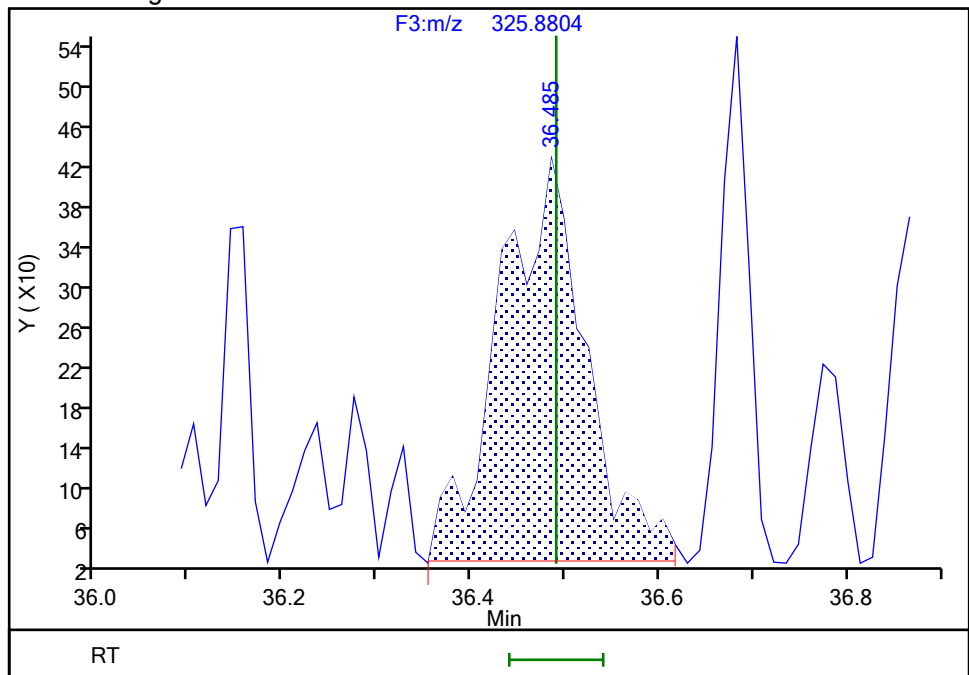
RT: 36.49
Area: 1590
Amount: 0.035305
Amount Units: pg/ul

Processing Integration Results



RT: 36.49
Area: 2603
Amount: 0.051452
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 16:18:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

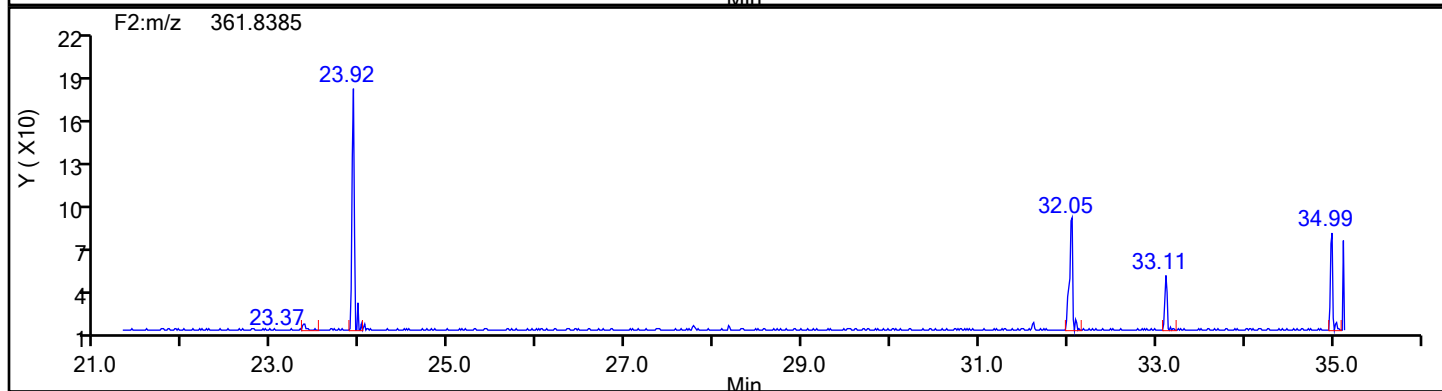
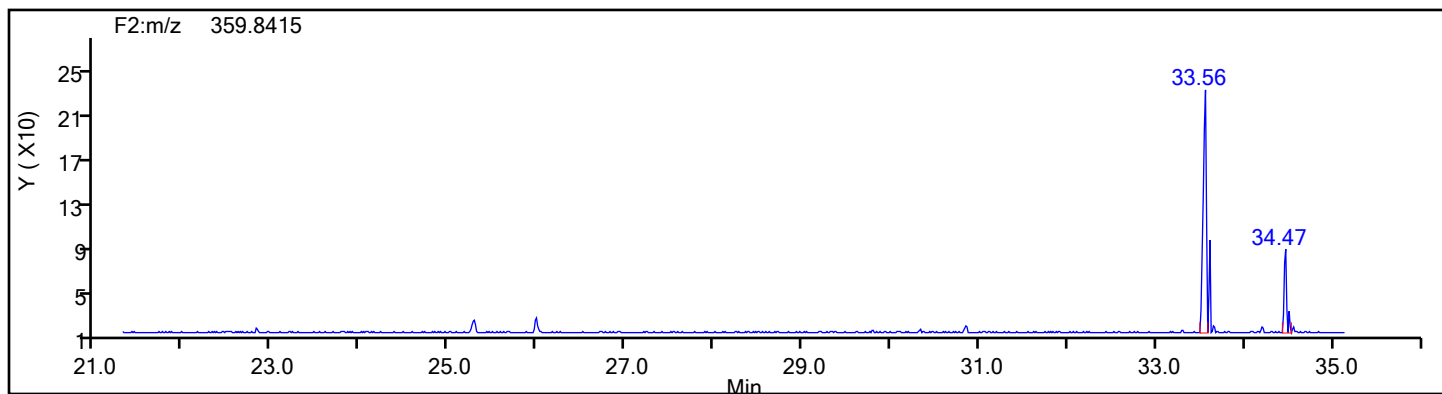
Worklist#: 87502

Sample Line#: 8

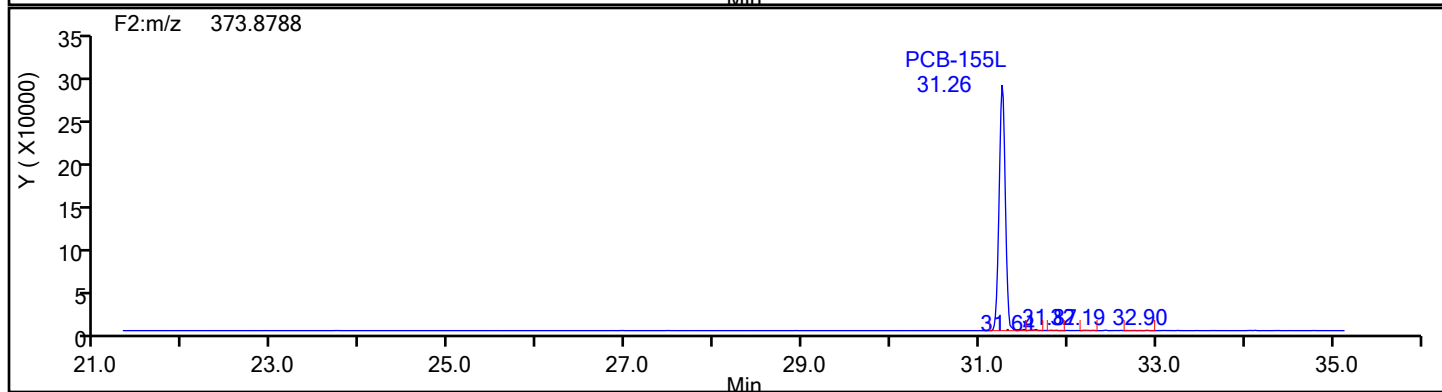
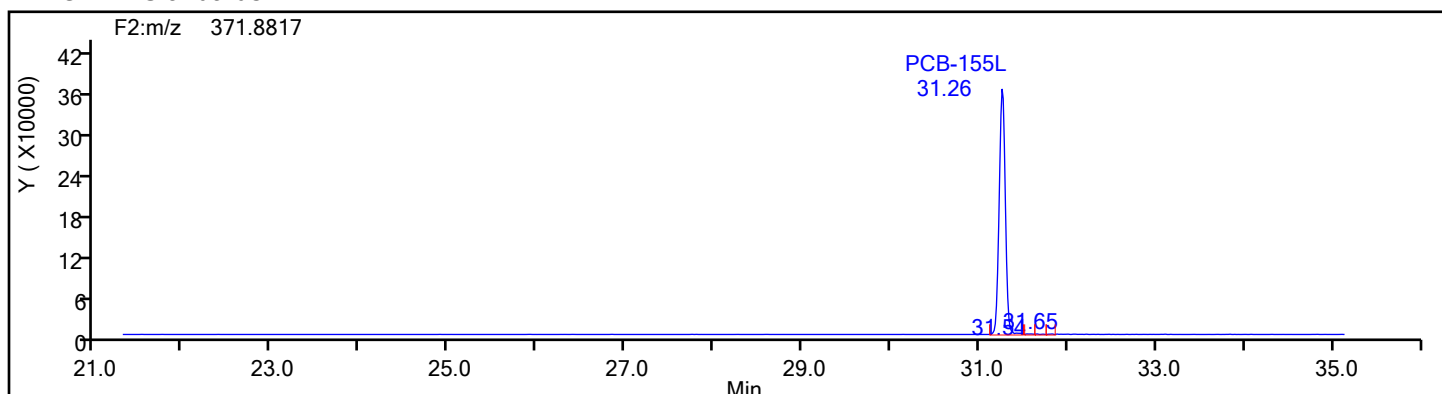
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

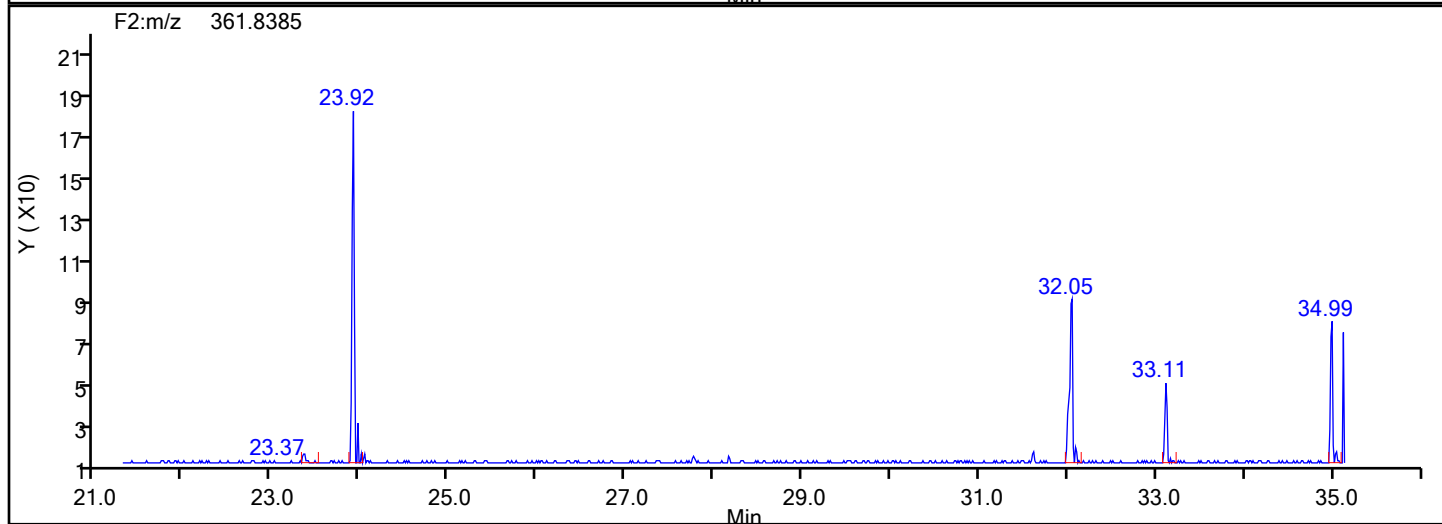
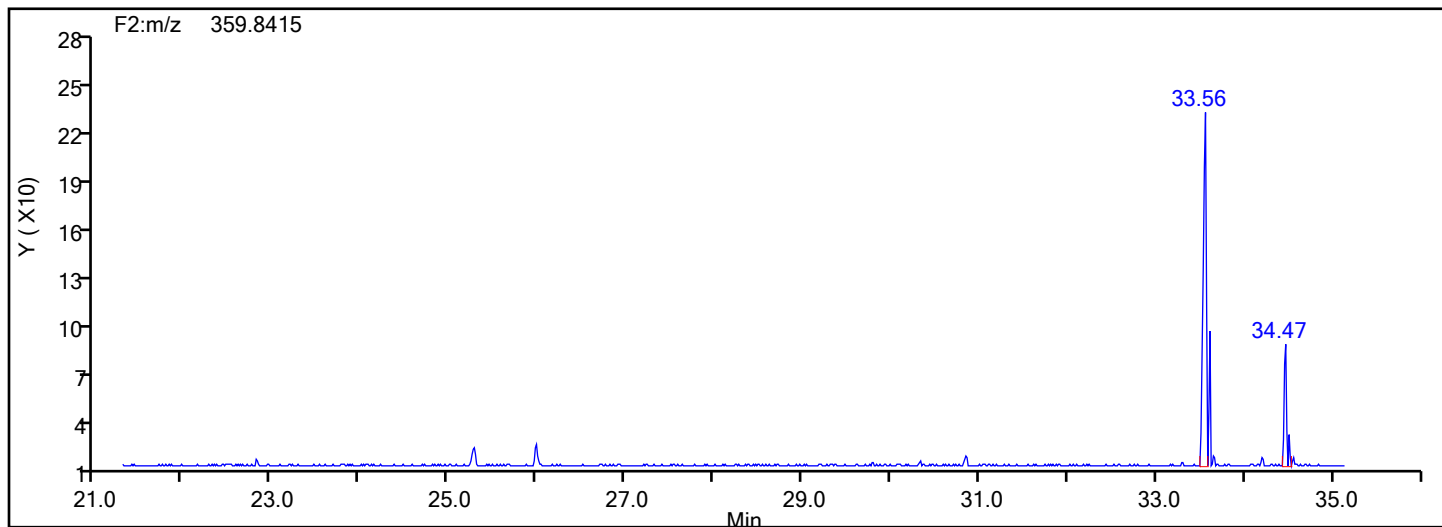
Worklist#: 87502

Sample Line#: 8

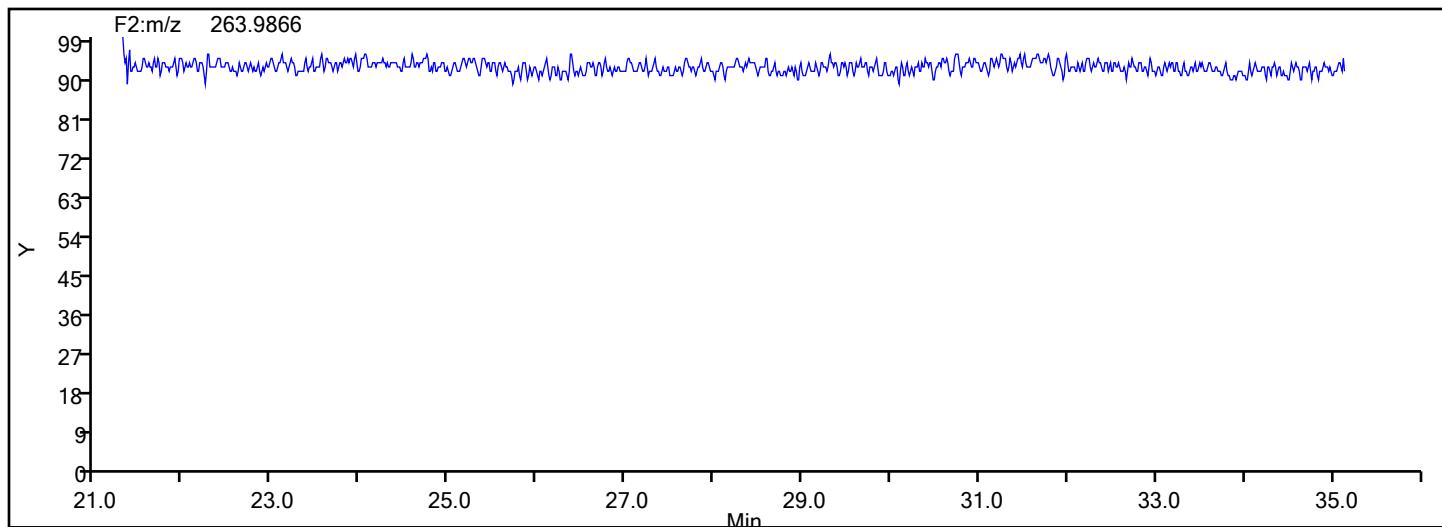
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

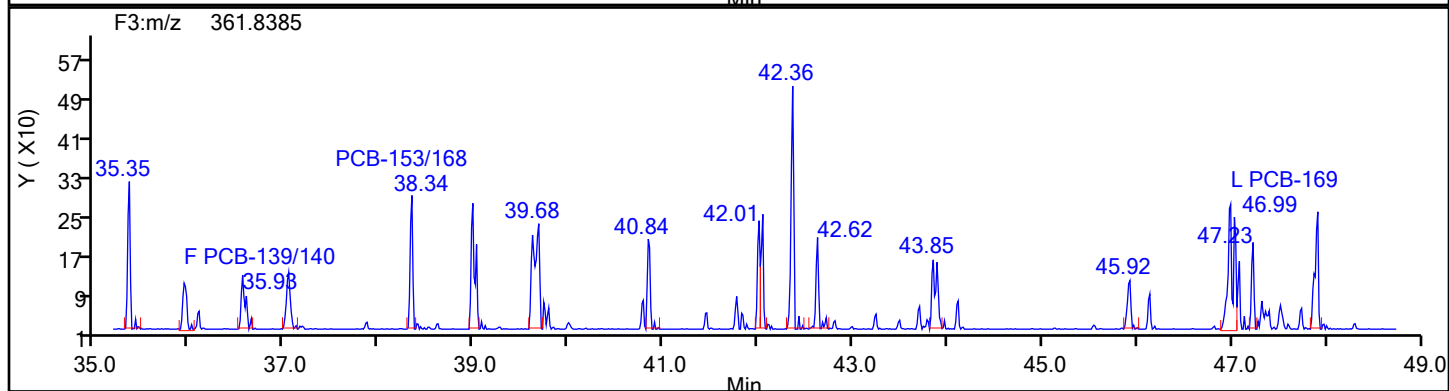
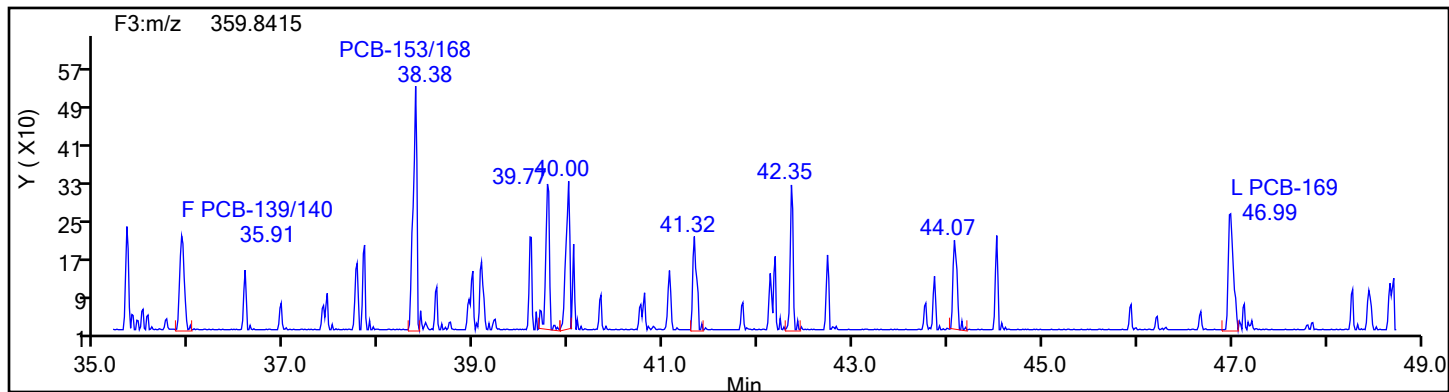
Worklist#: 87502

Sample Line#: 8

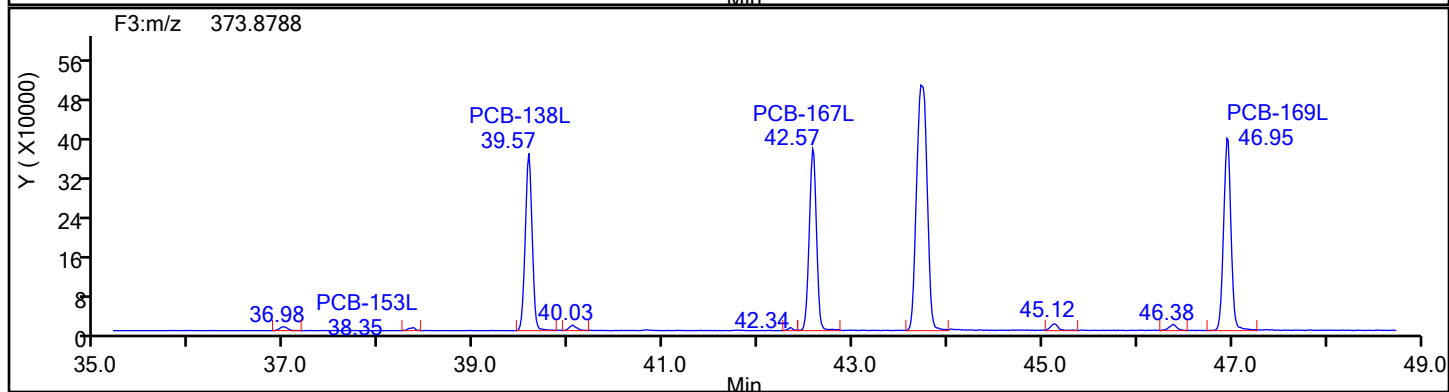
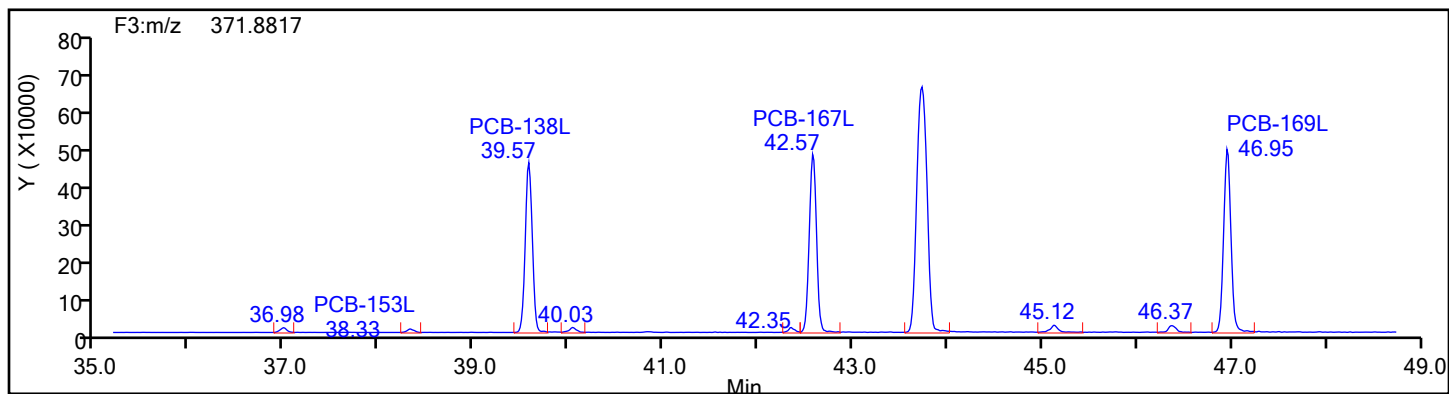
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

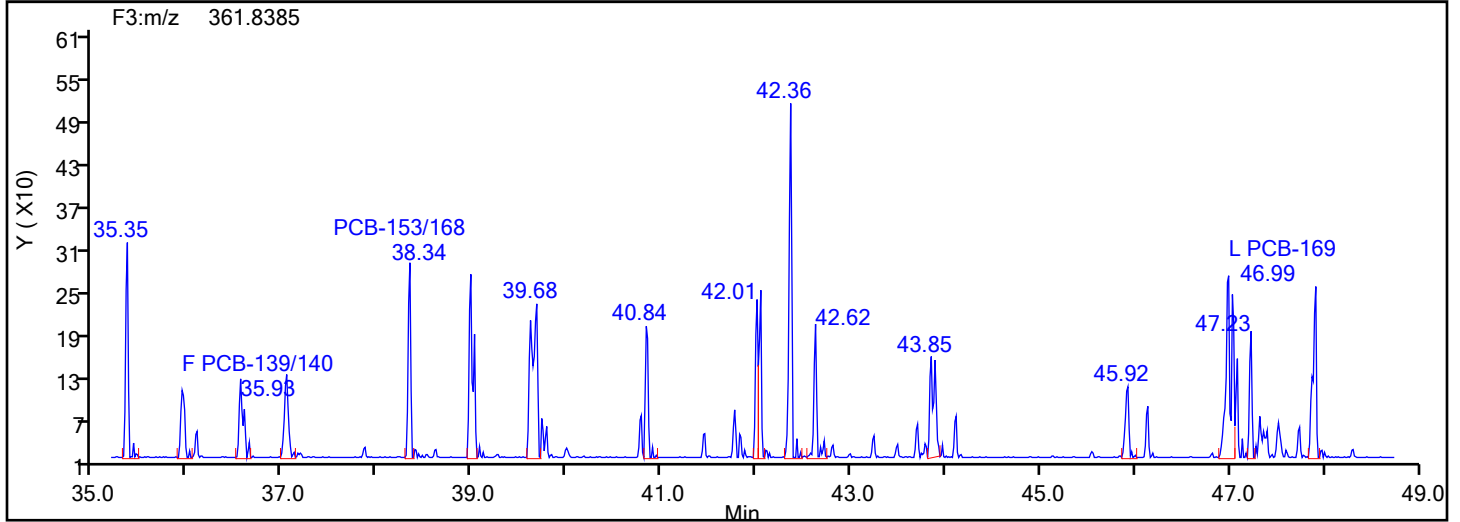
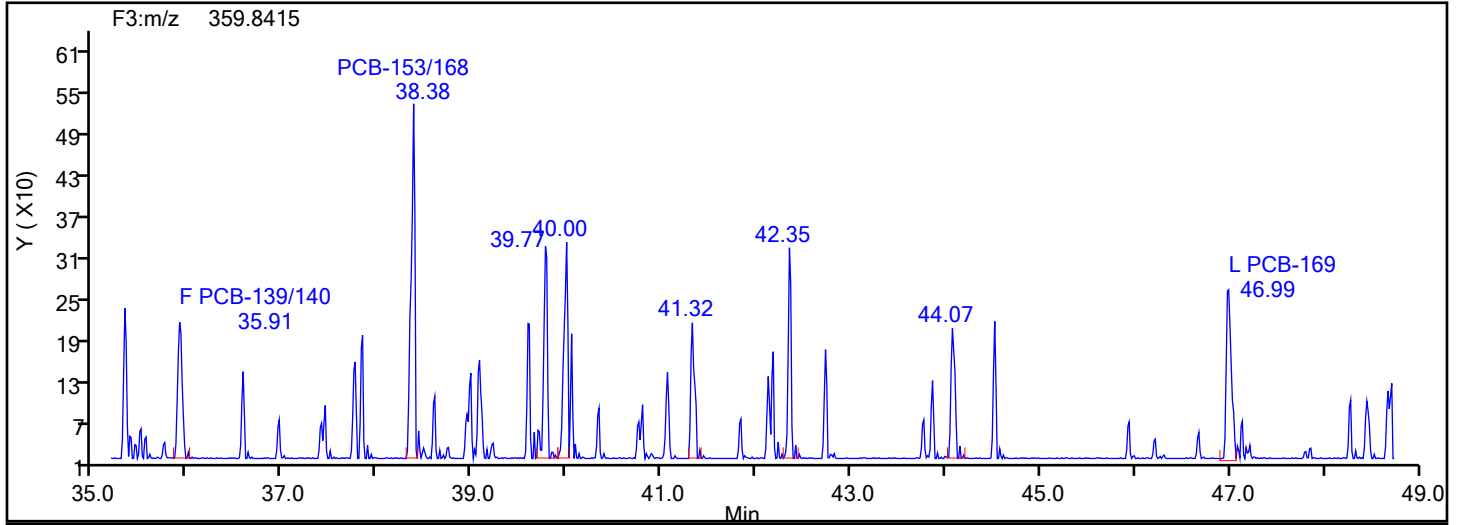
Worklist#: 87502

Sample Line#: 8

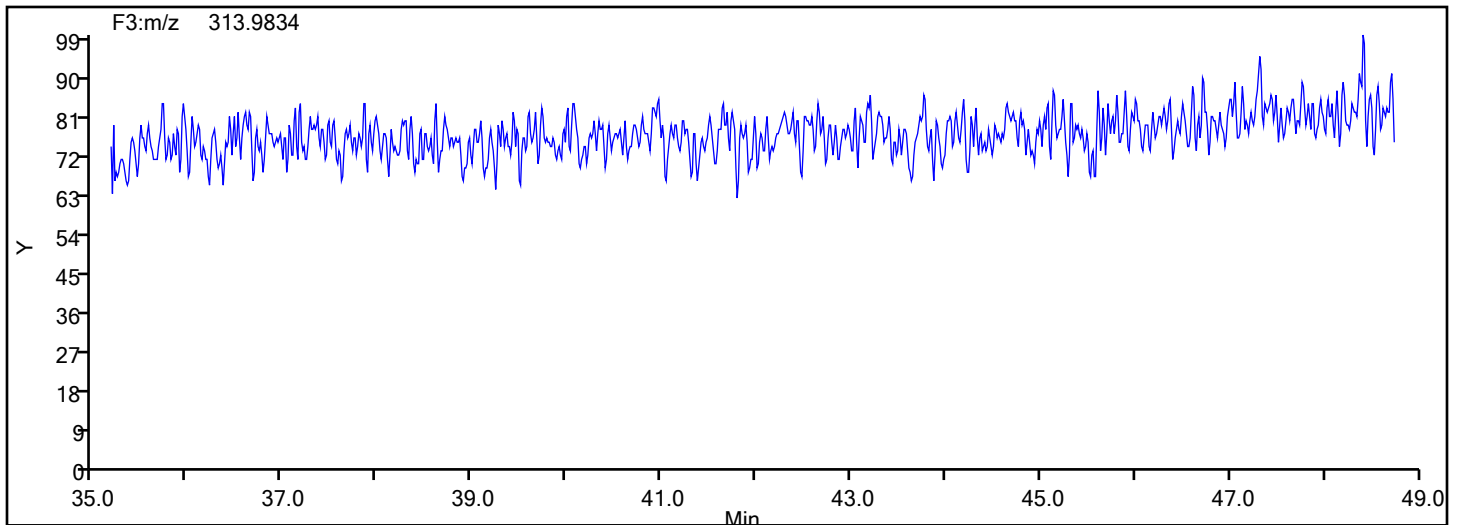
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

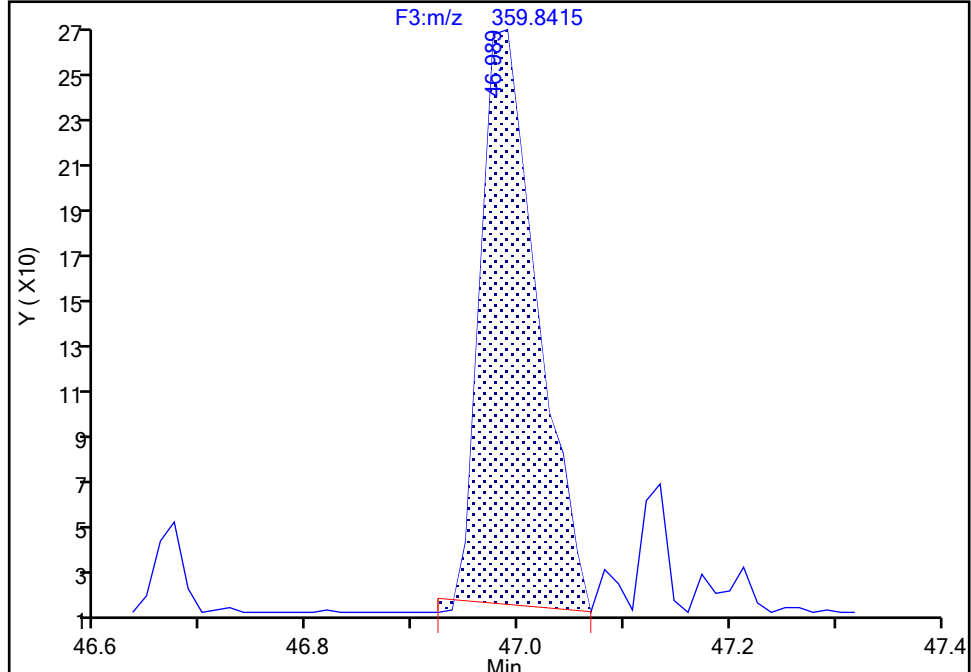
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d
Injection Date: 11-Jun-2024 15:03:00 Instrument ID: D2D
Lims ID: MB 140-87206/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-169, CAS: 32774-16-6

Signal: 1

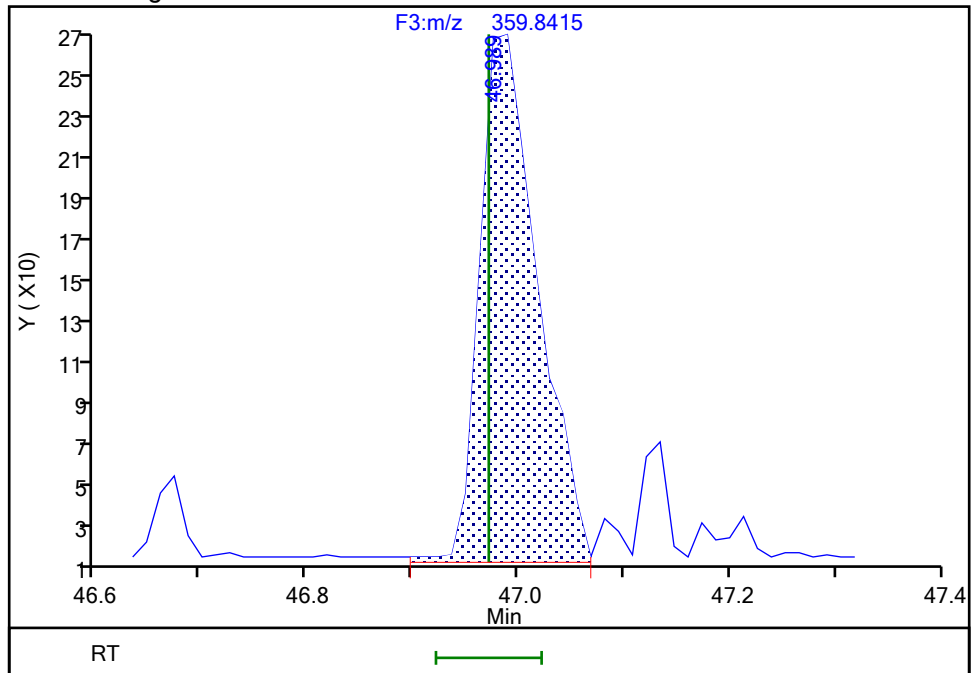
RT: 46.99
Area: 891
Amount: 0.037244
Amount Units: pg/ul

Processing Integration Results



RT: 46.99
Area: 938
Amount: 0.035625
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 16:19:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

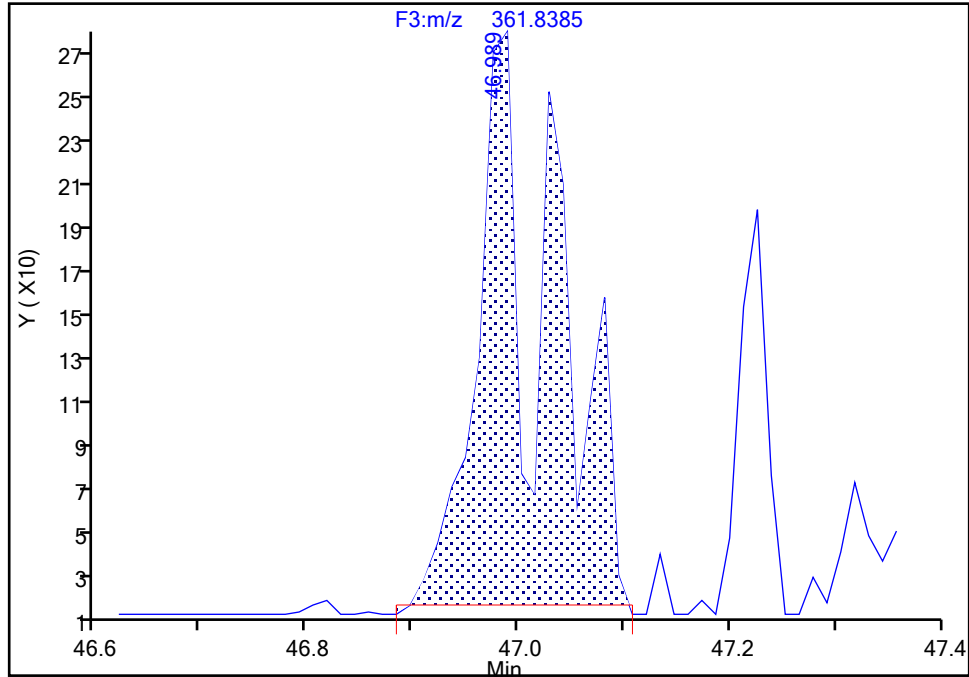
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Injection Date: 11-Jun-2024 15:03:00 Instrument ID: D2D
Lims ID: MB 140-87206/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-169, CAS: 32774-16-6

Signal: 2

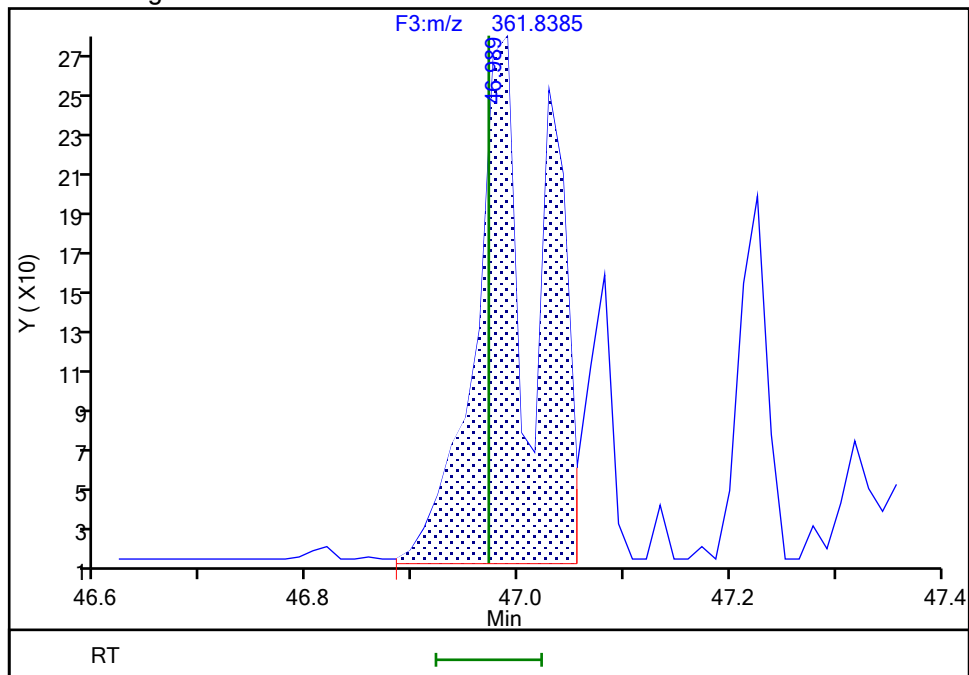
RT: 46.99
Area: 1203
Amount: 0.037244
Amount Units: pg/ul

Processing Integration Results



RT: 46.99
Area: 1065
Amount: 0.035625
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 16:19:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

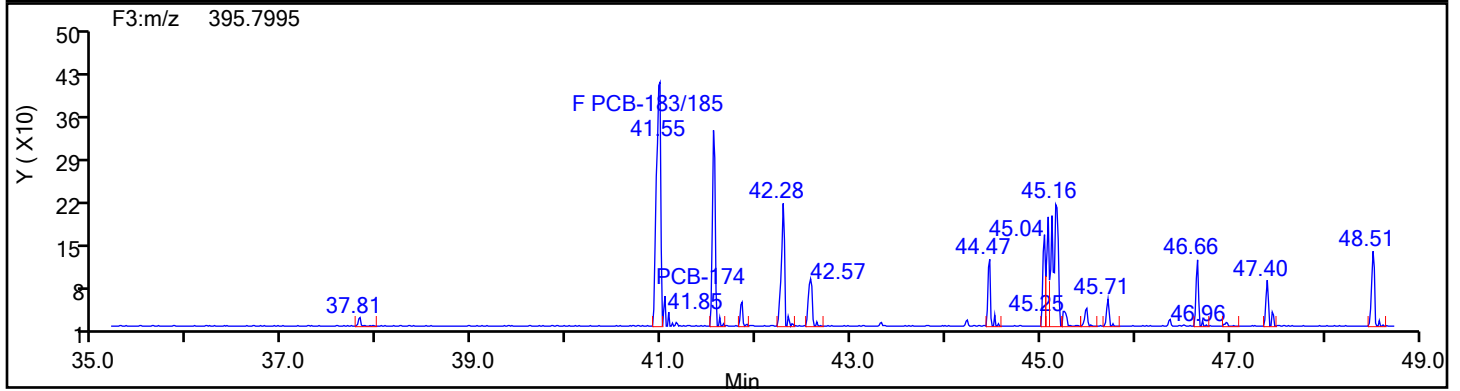
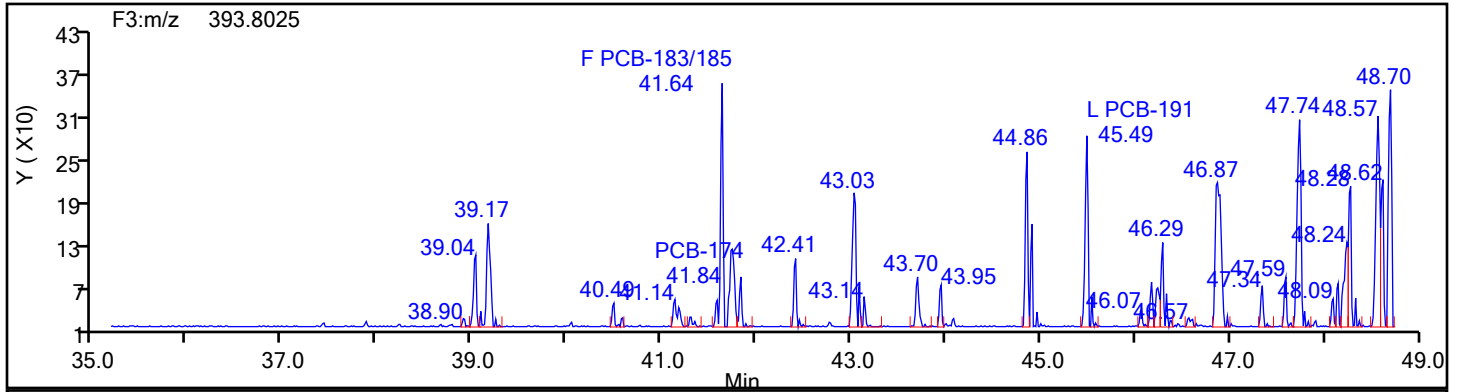
Worklist#: 87502

Sample Line#: 8

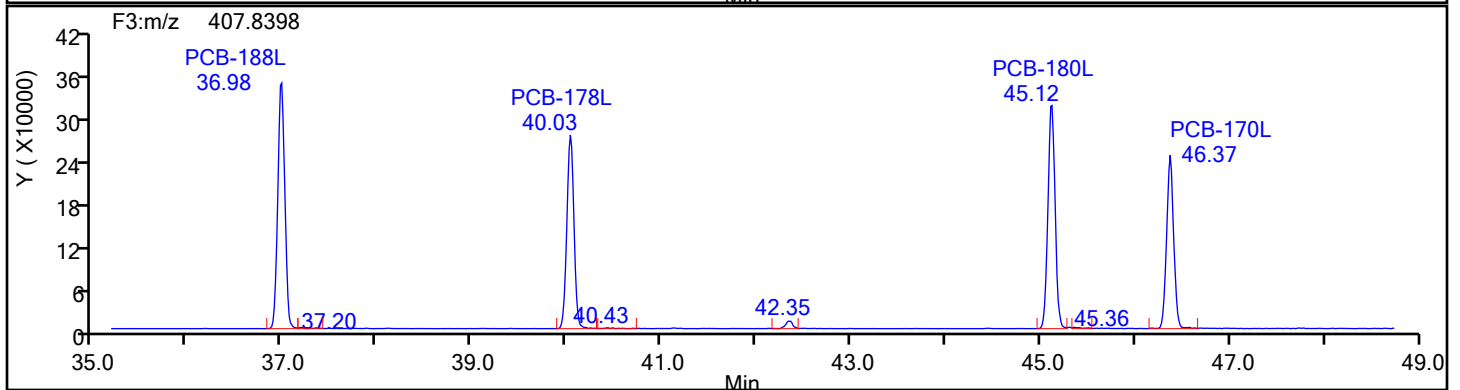
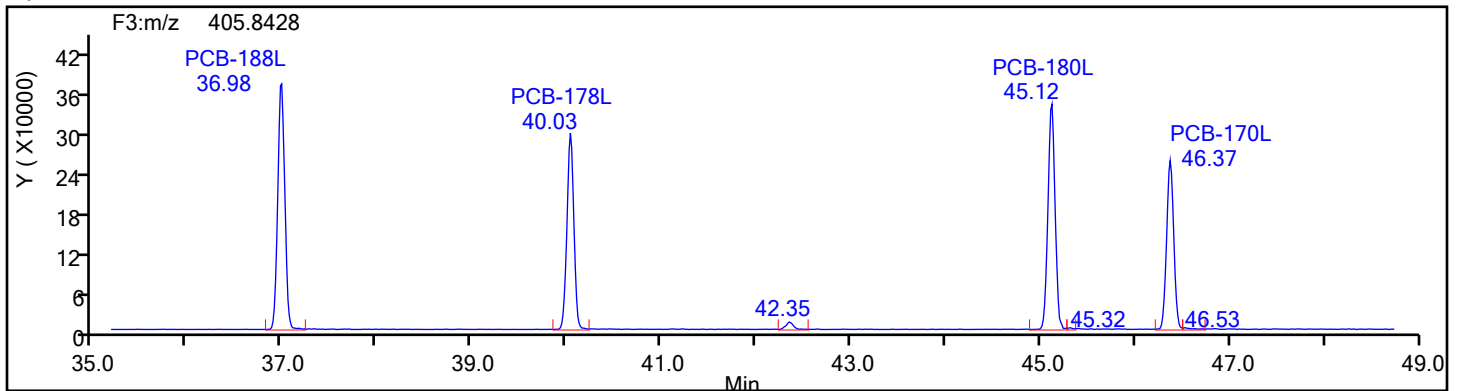
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

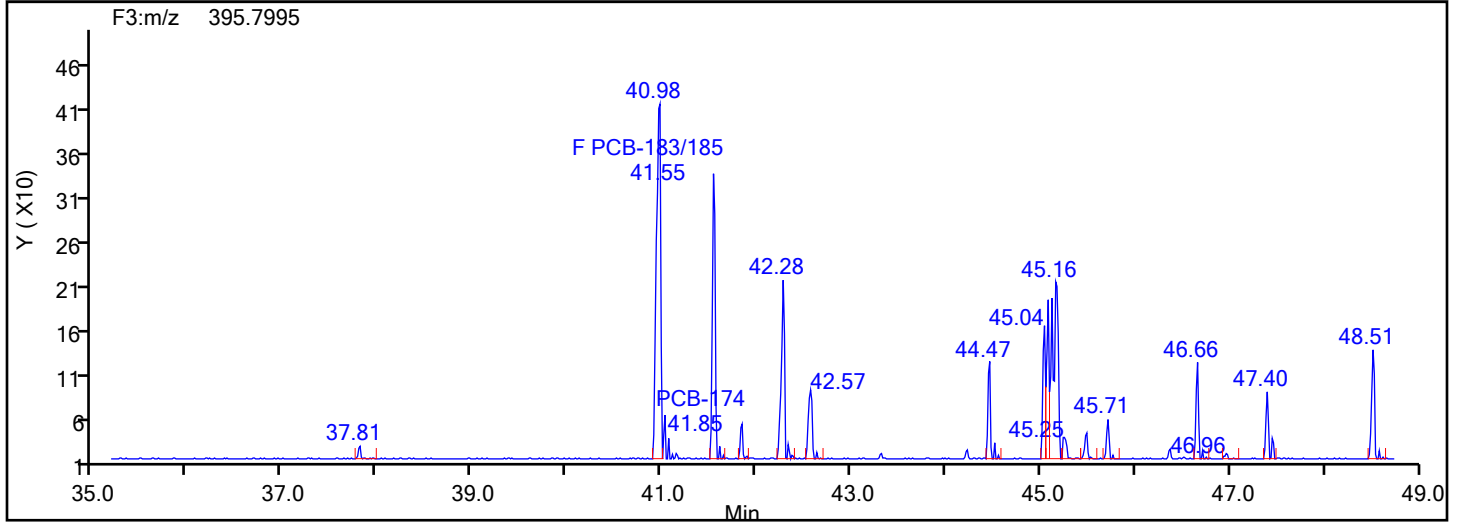
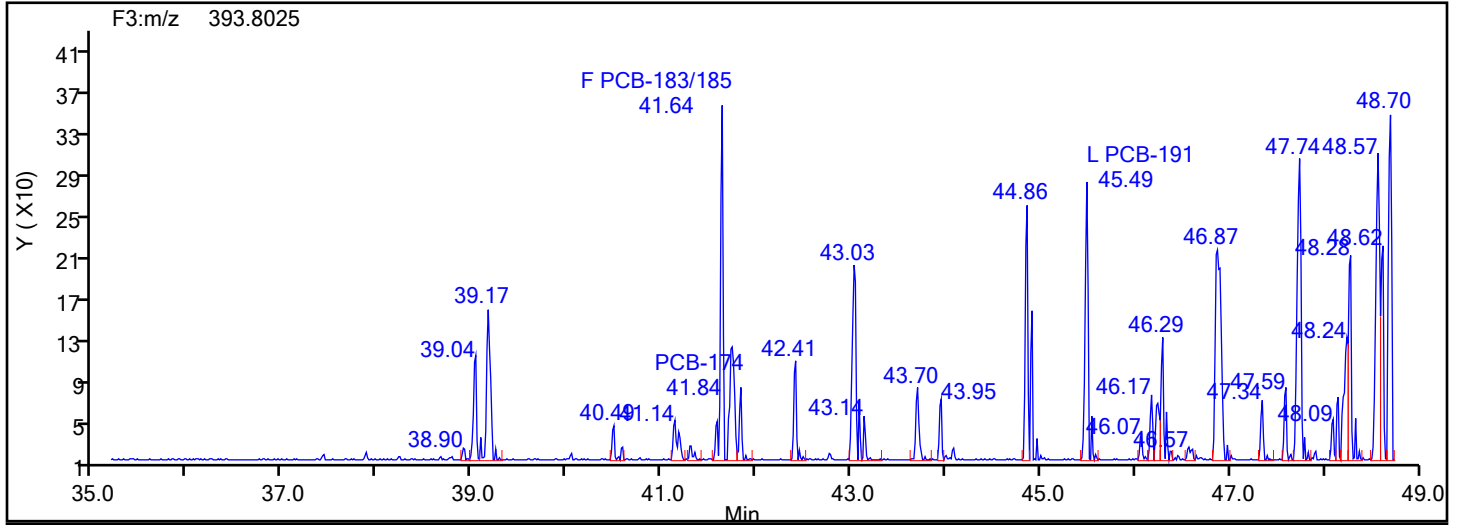
Worklist#: 87502

Sample Line#: 8

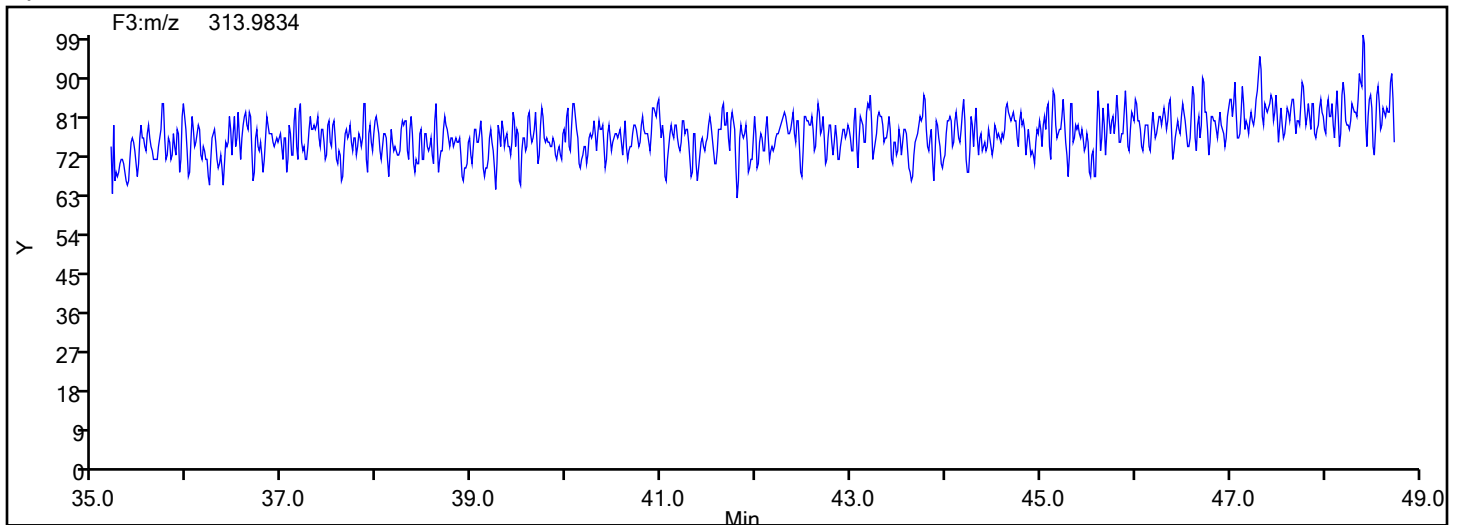
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

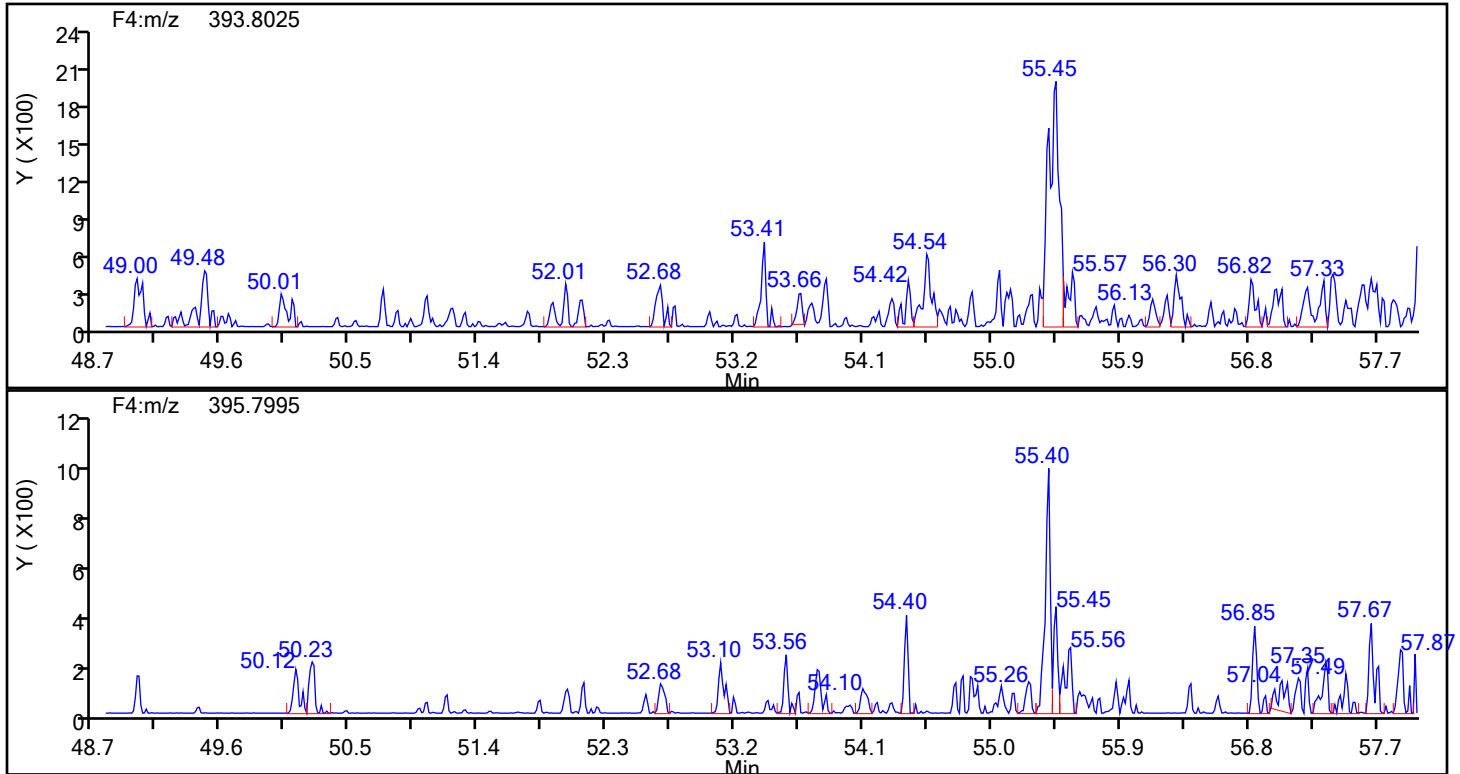
Worklist#: 87502

Sample Line#: 8

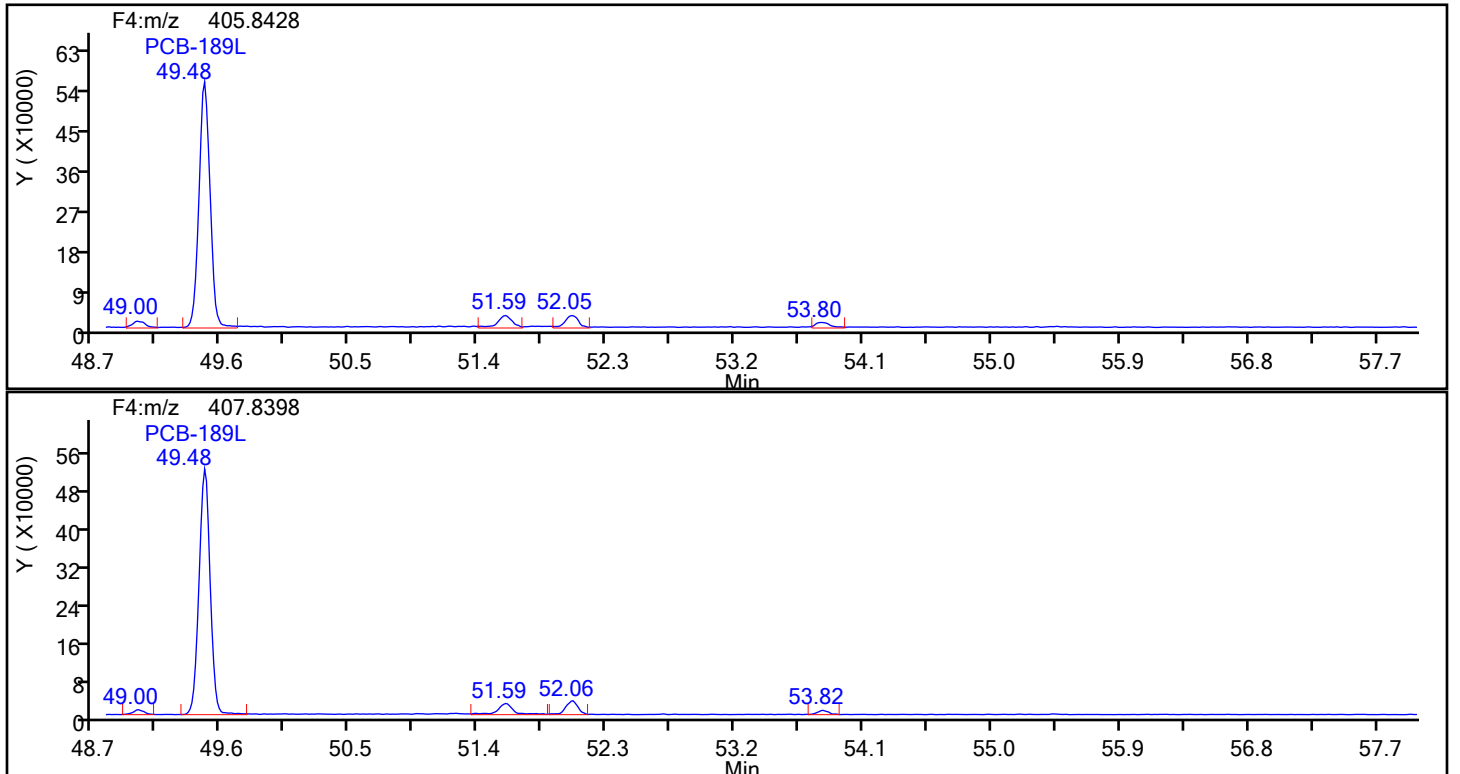
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

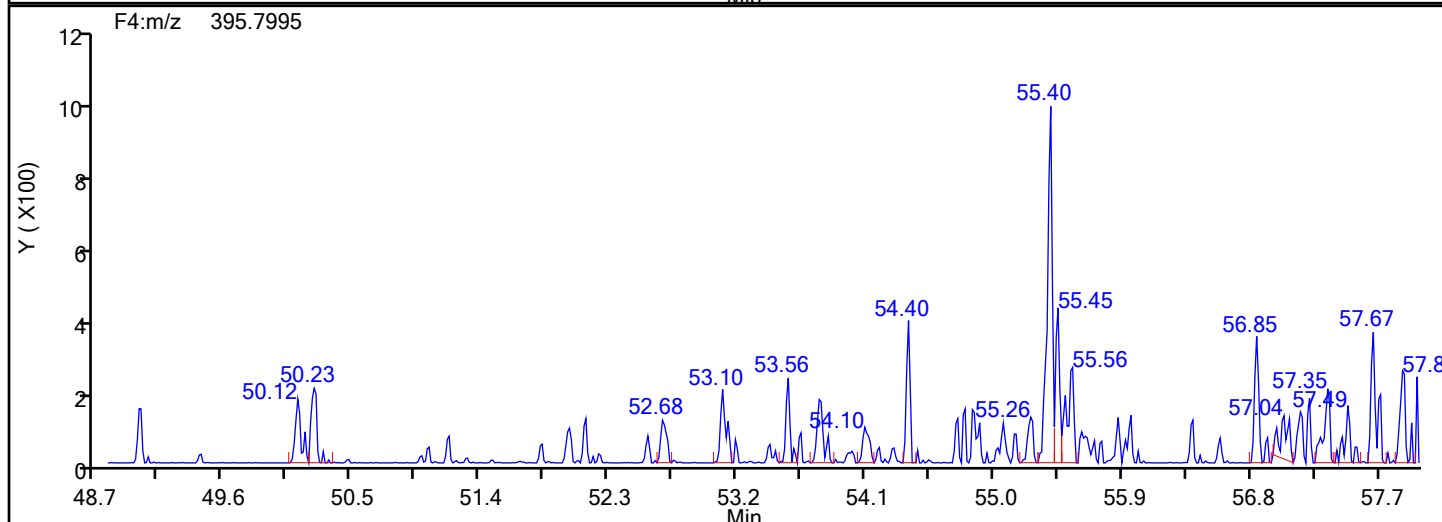
Worklist#: 87502

Sample Line#: 8

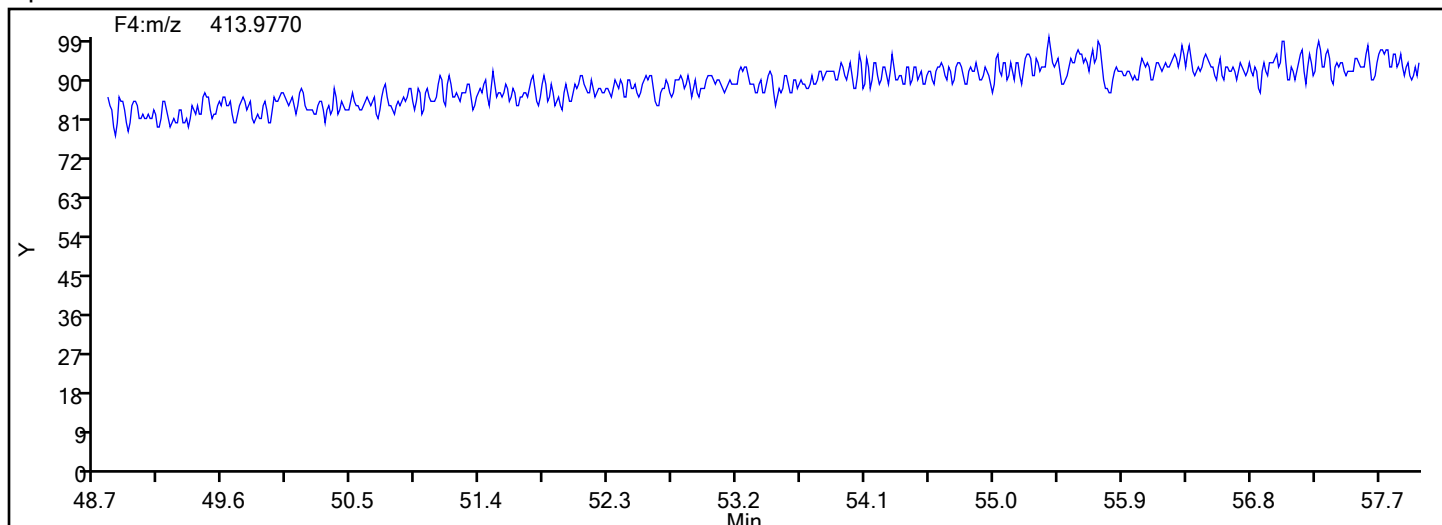
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

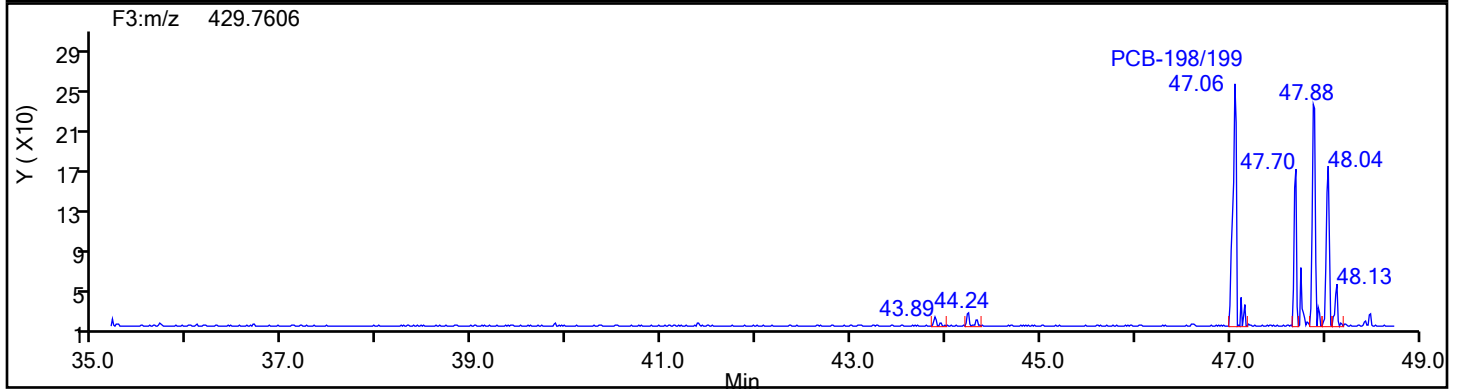
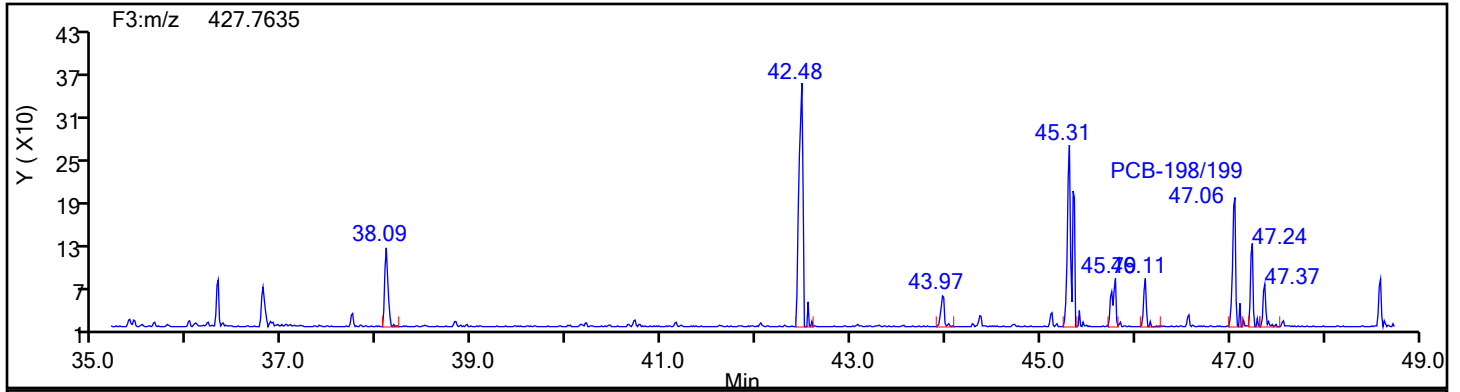
Worklist#: 87502

Sample Line#: 8

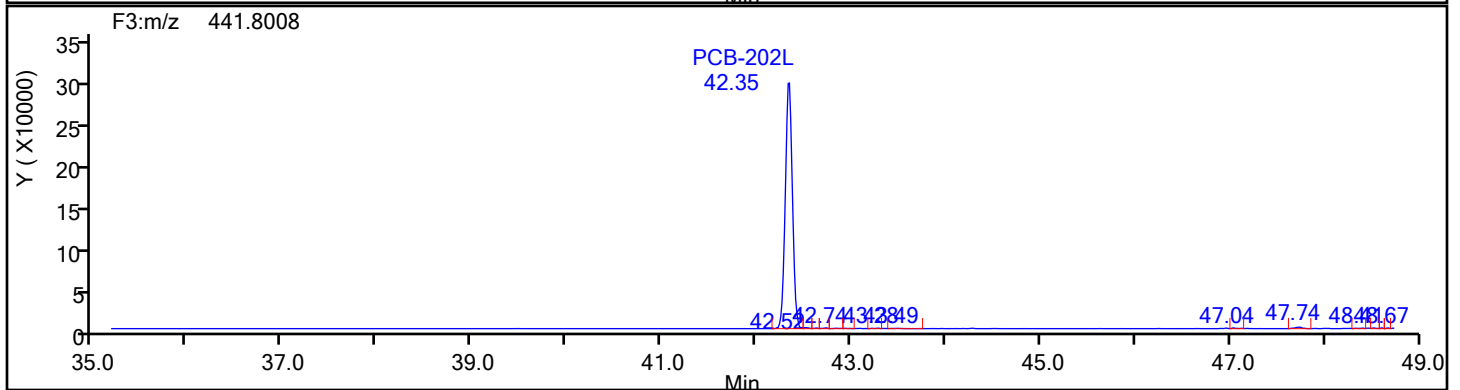
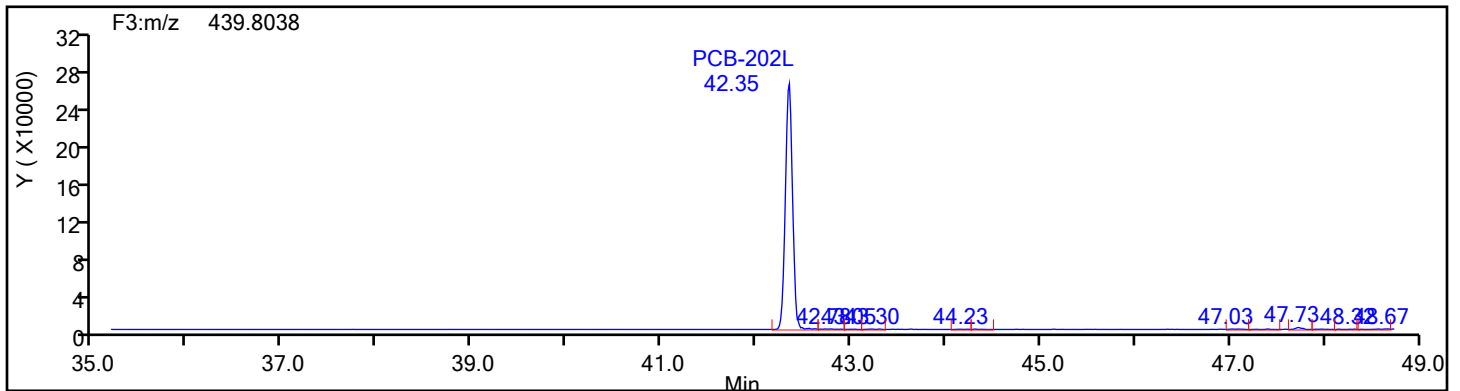
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

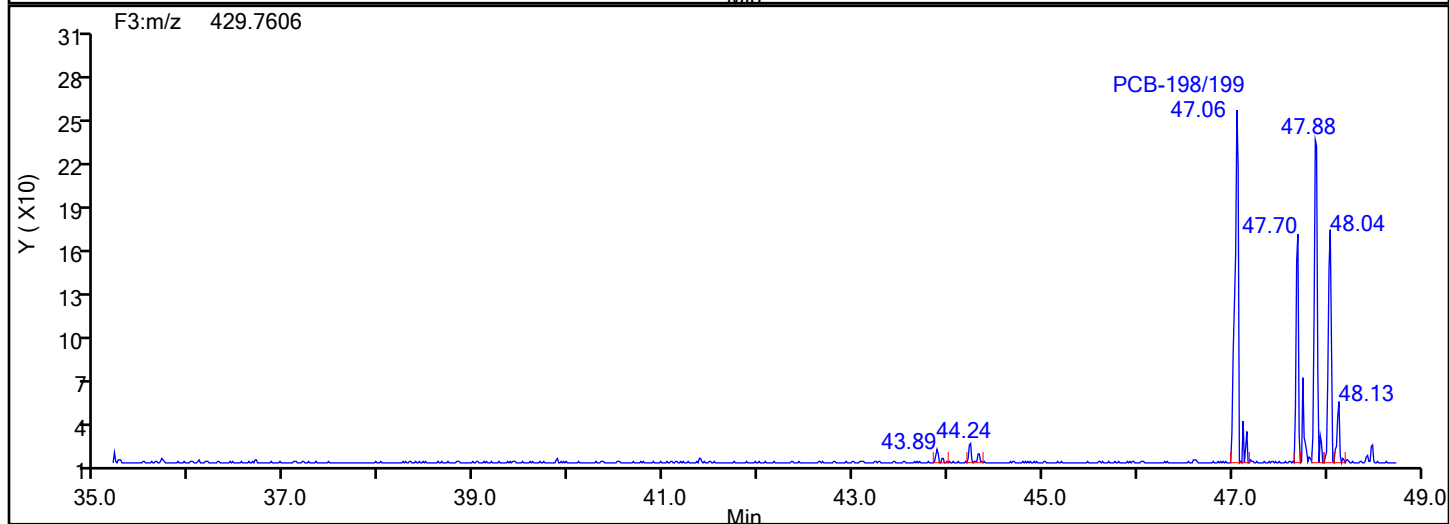
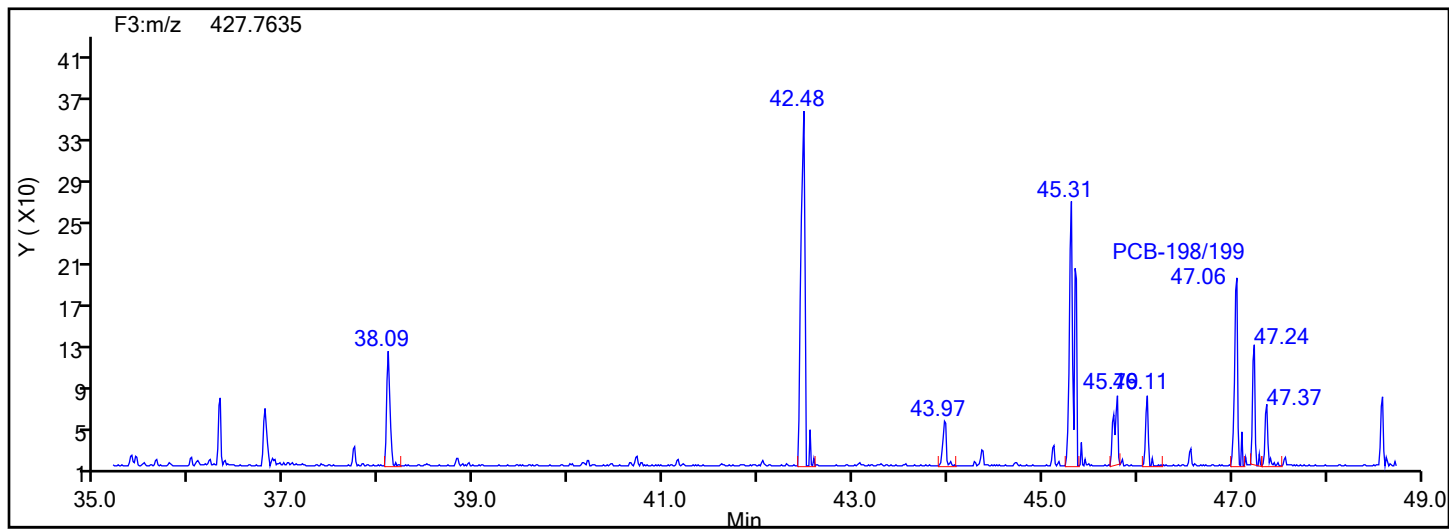
Worklist#: 87502

Sample Line#: 8

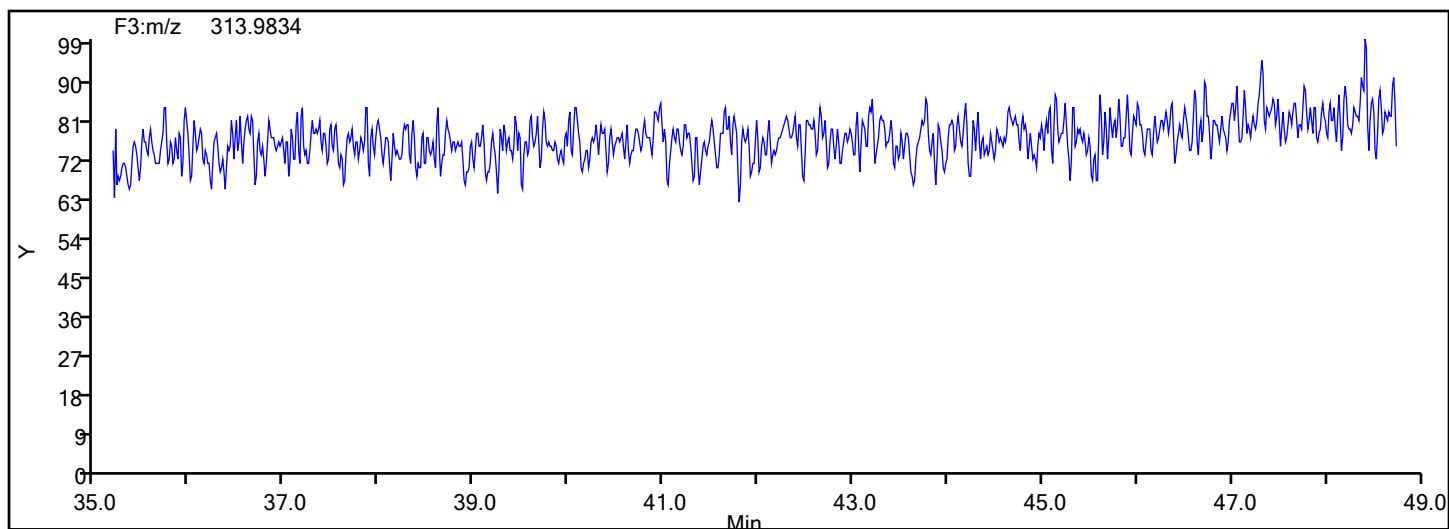
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

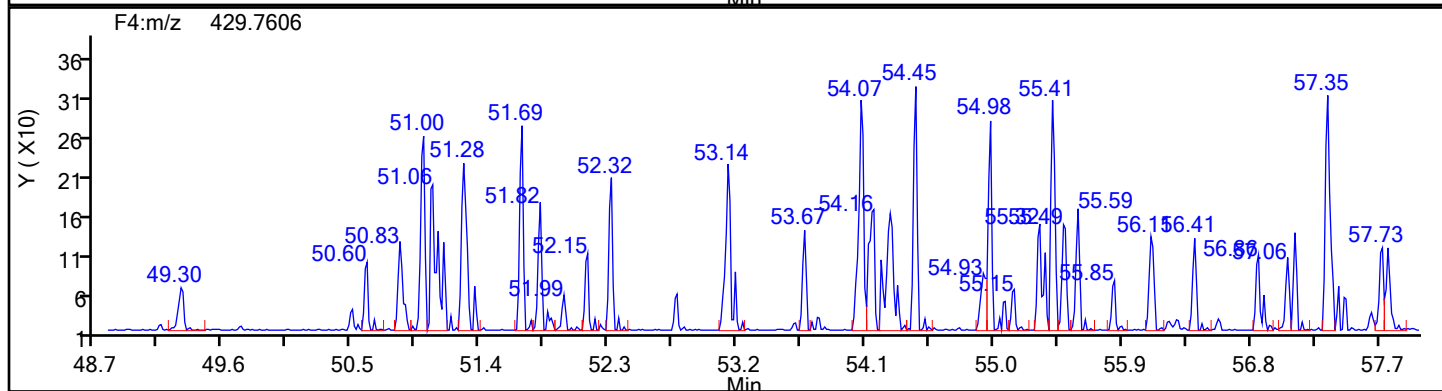
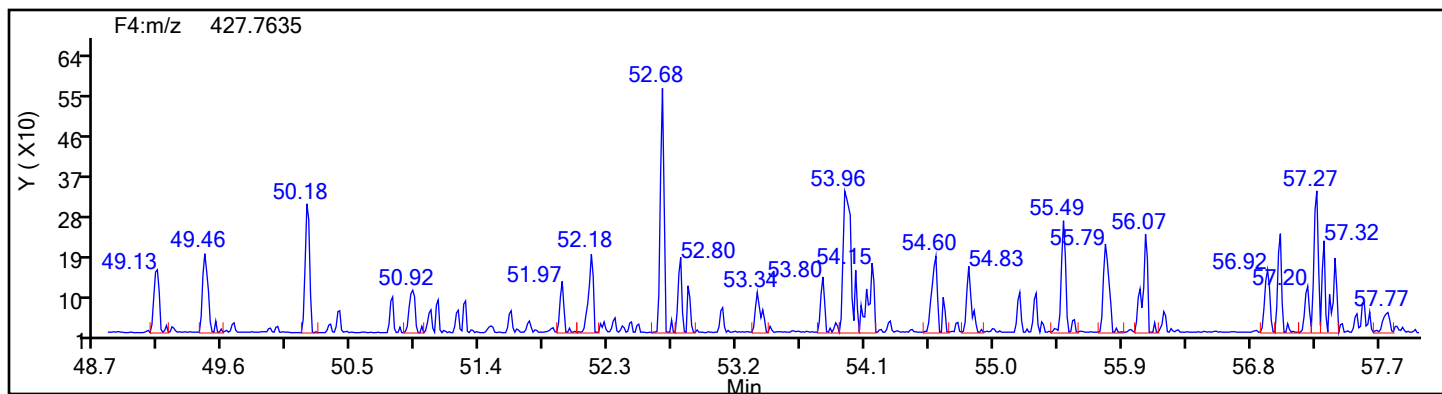
Worklist#: 87502

Sample Line#: 8

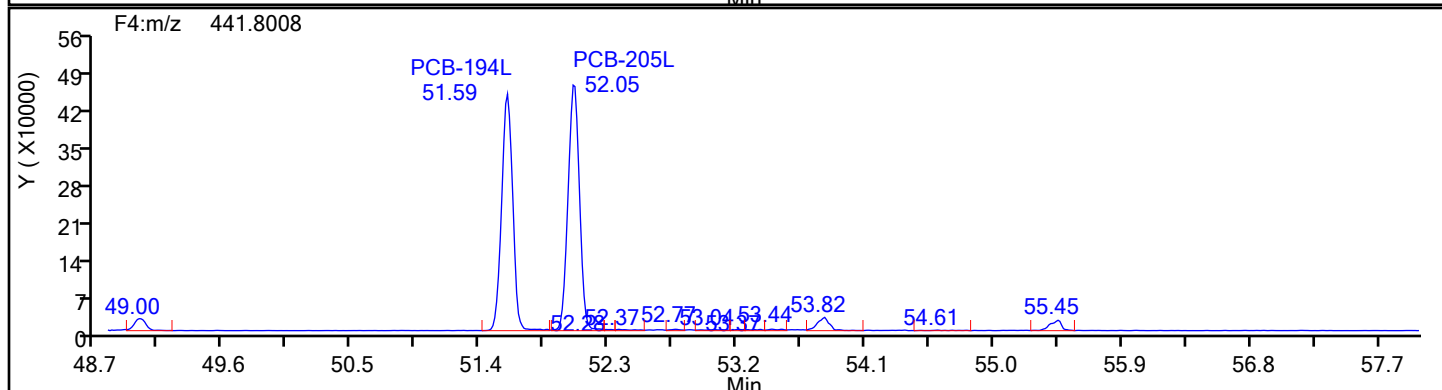
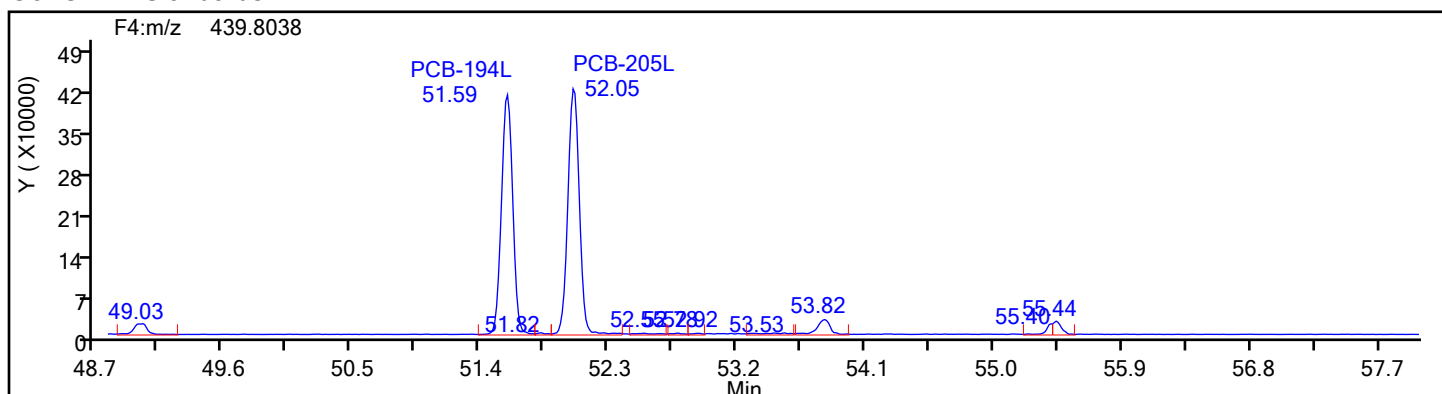
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

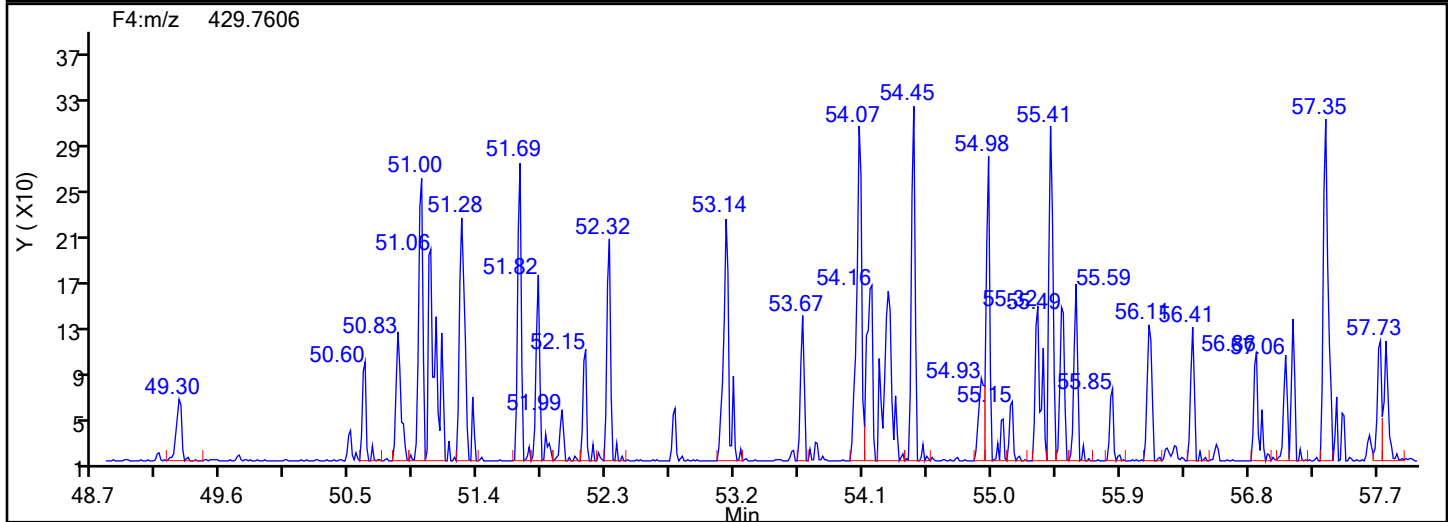
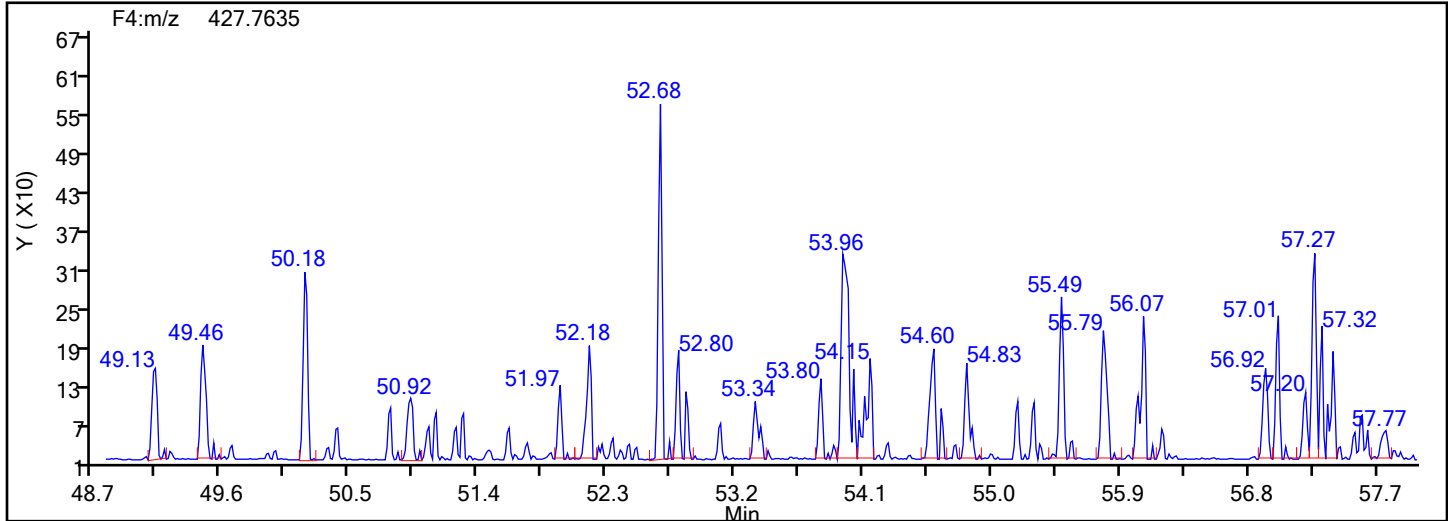
Worklist#: 87502

Sample Line#: 8

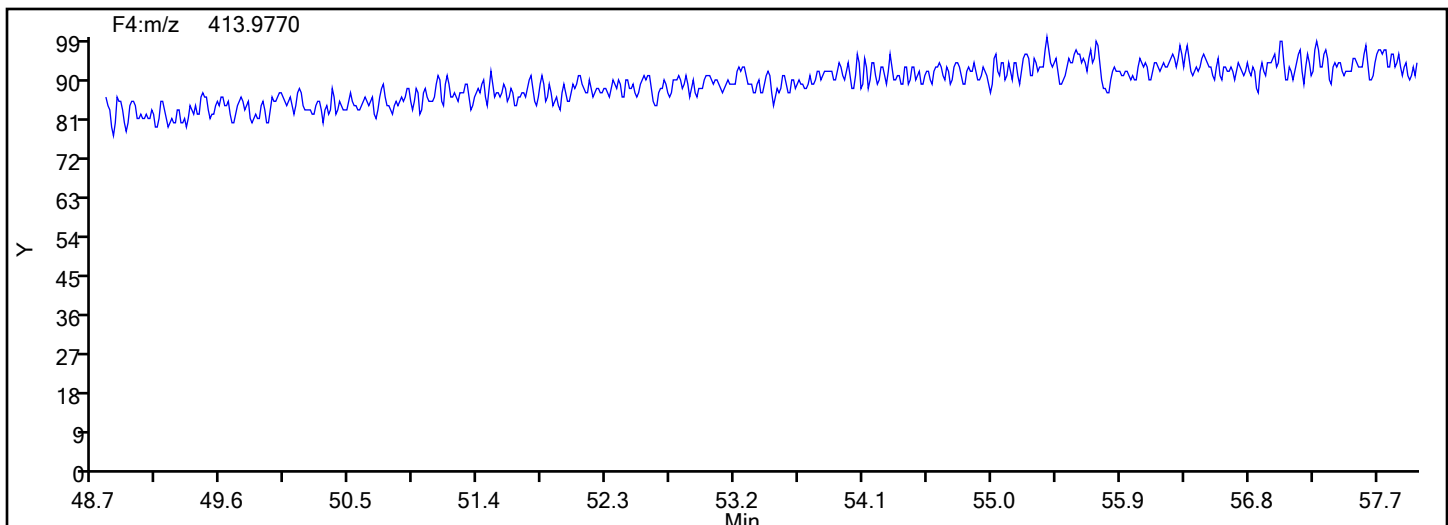
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

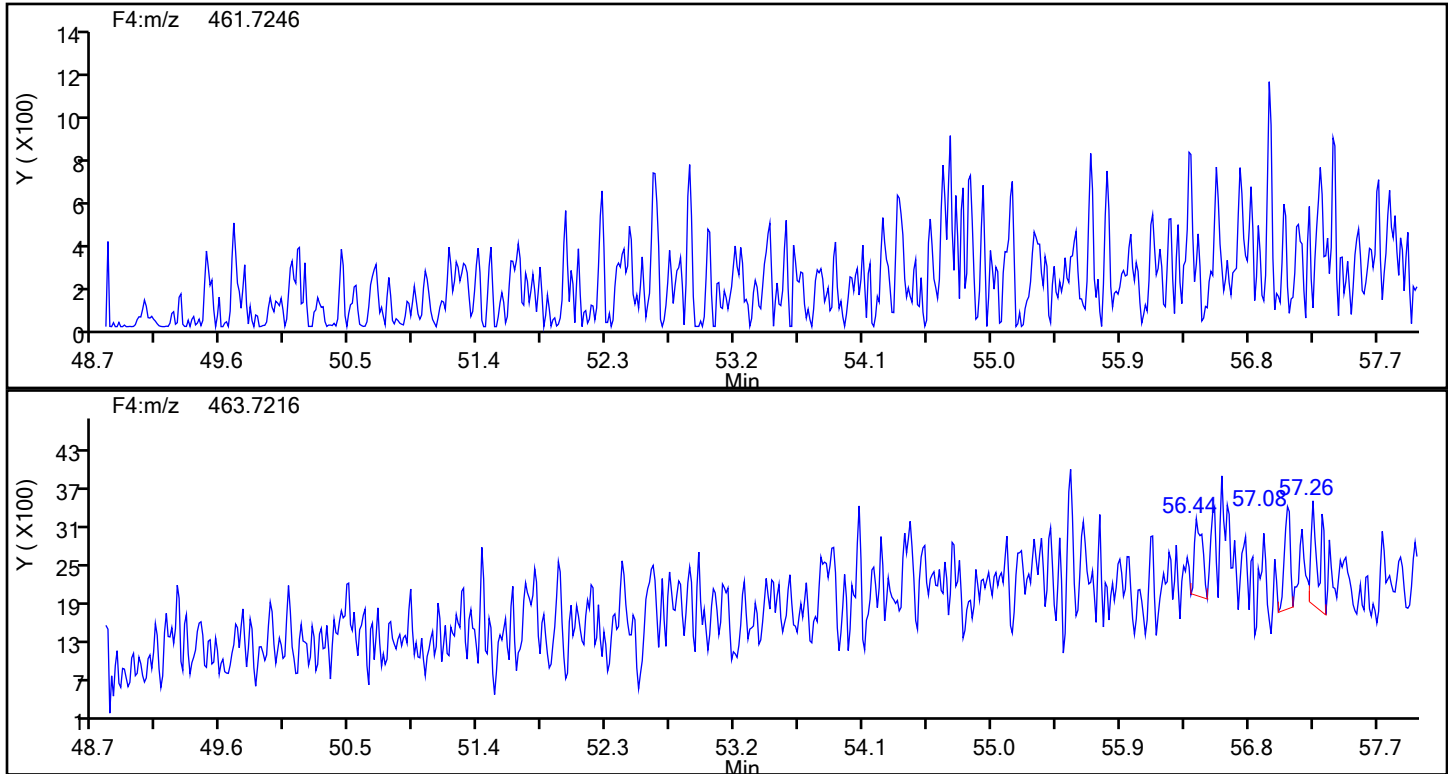
Worklist#: 87502

Sample Line#: 8

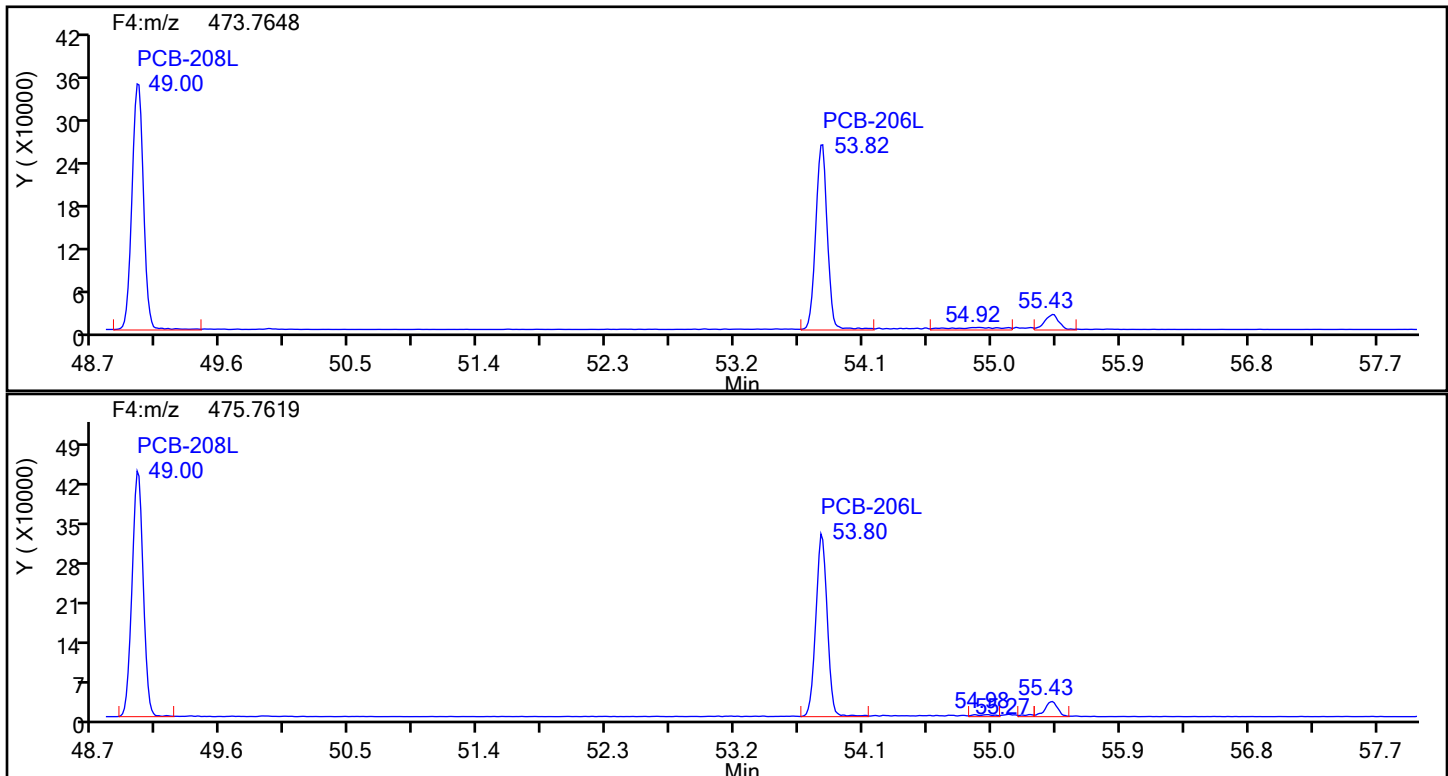
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

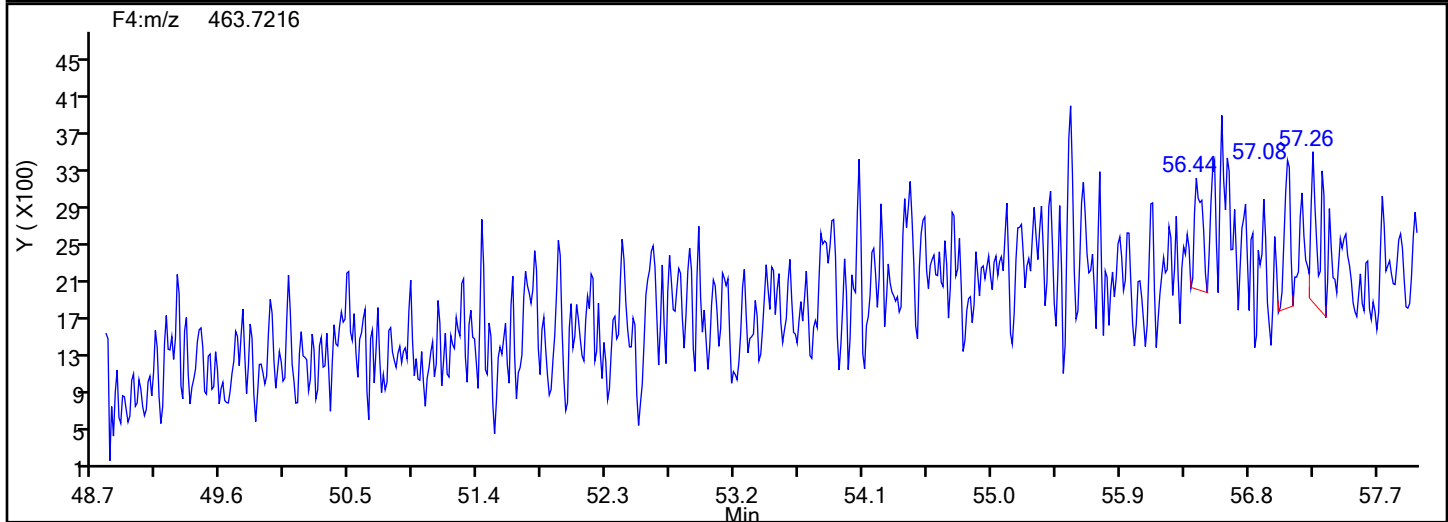
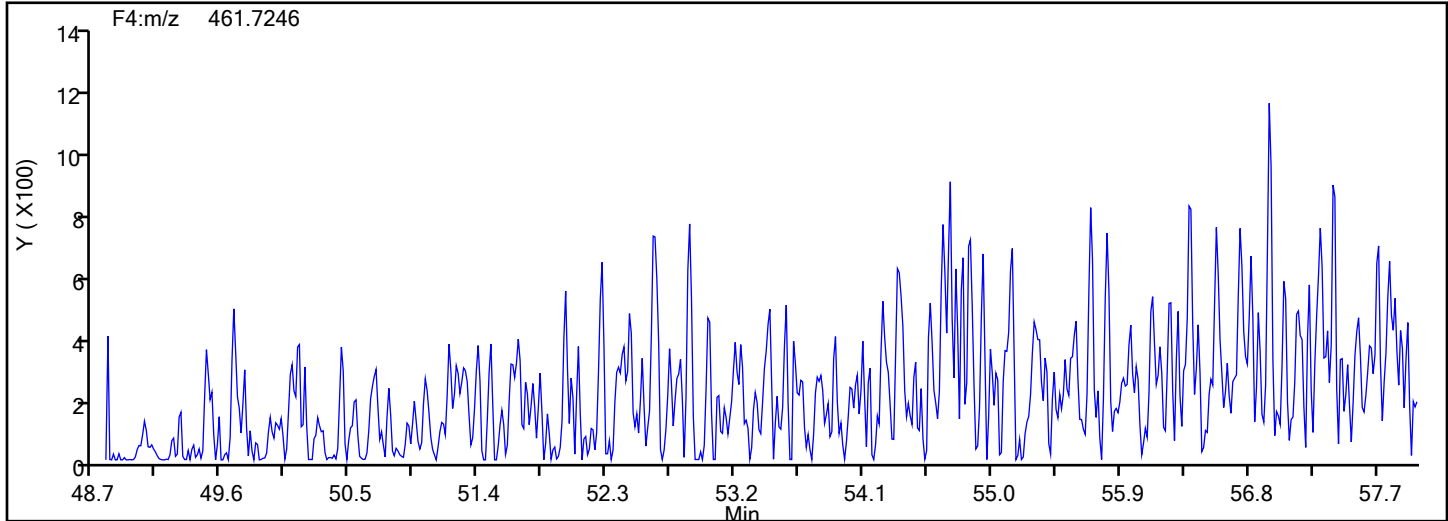
Worklist#: 87502

Sample Line#: 8

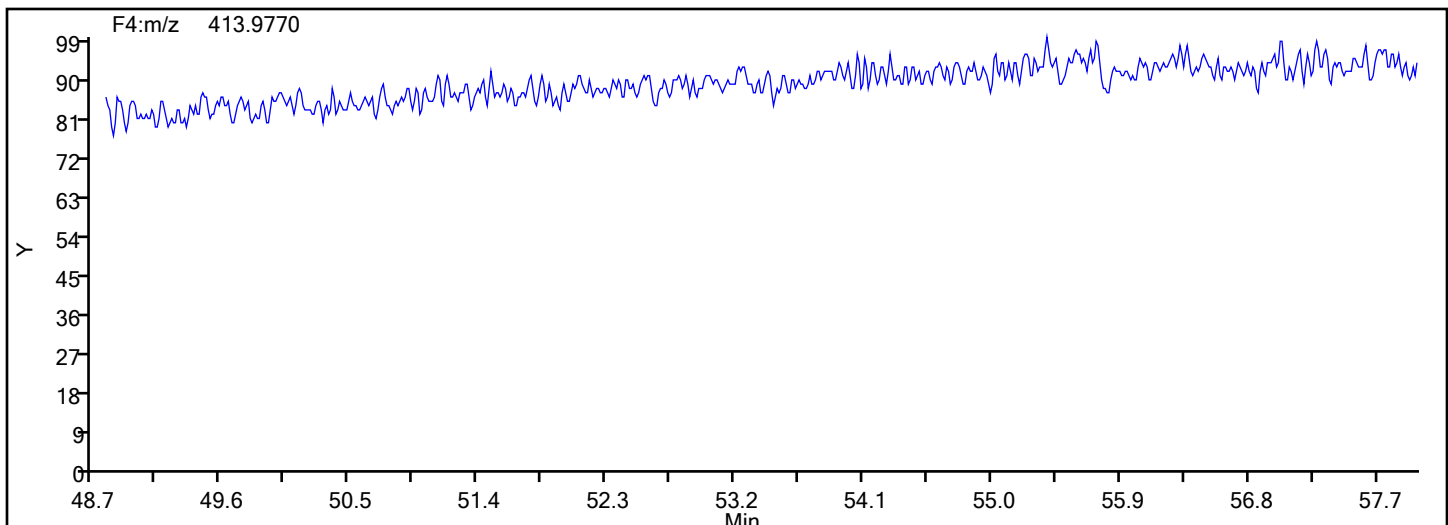
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d

Injection Date: 11-Jun-2024 15:03:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

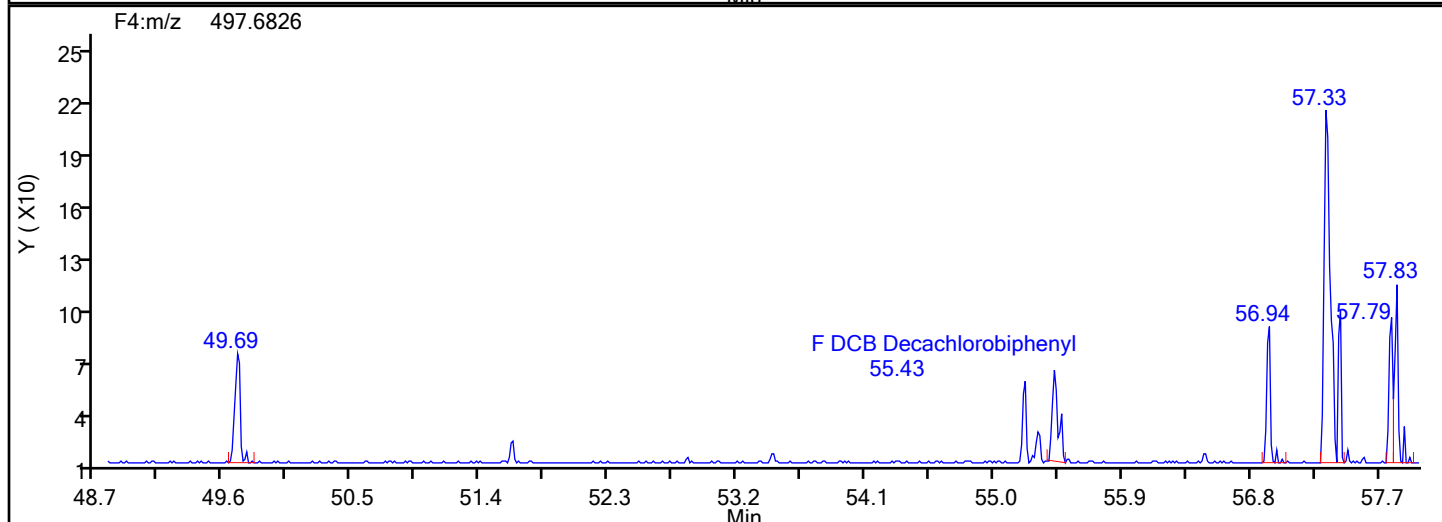
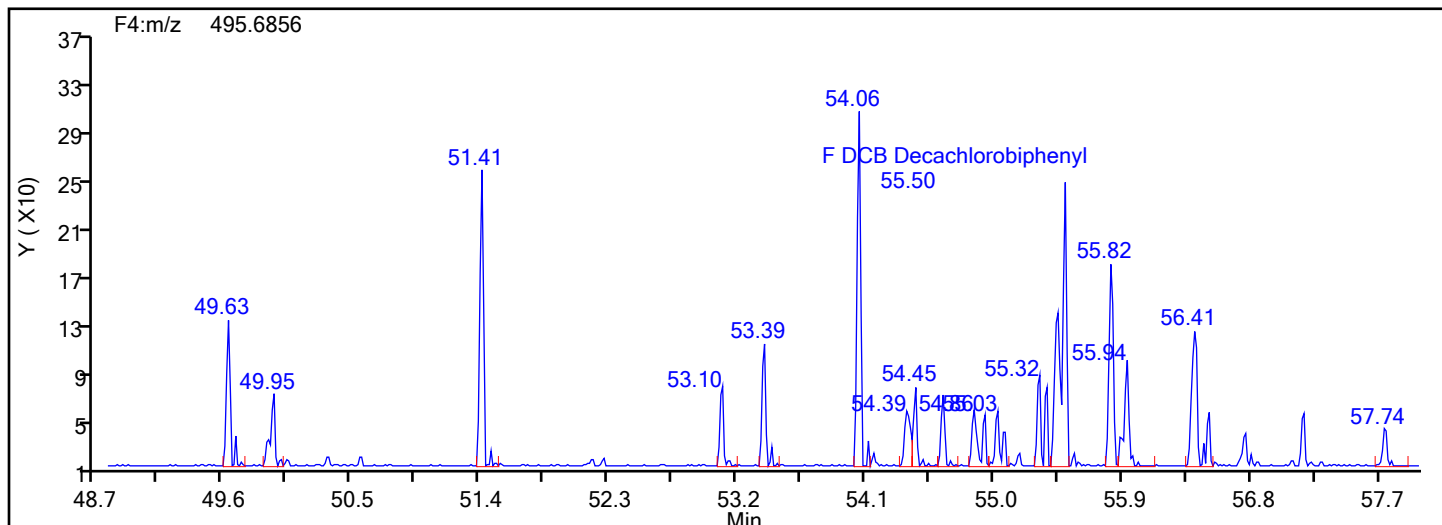
Worklist#: 87502

Sample Line#: 8

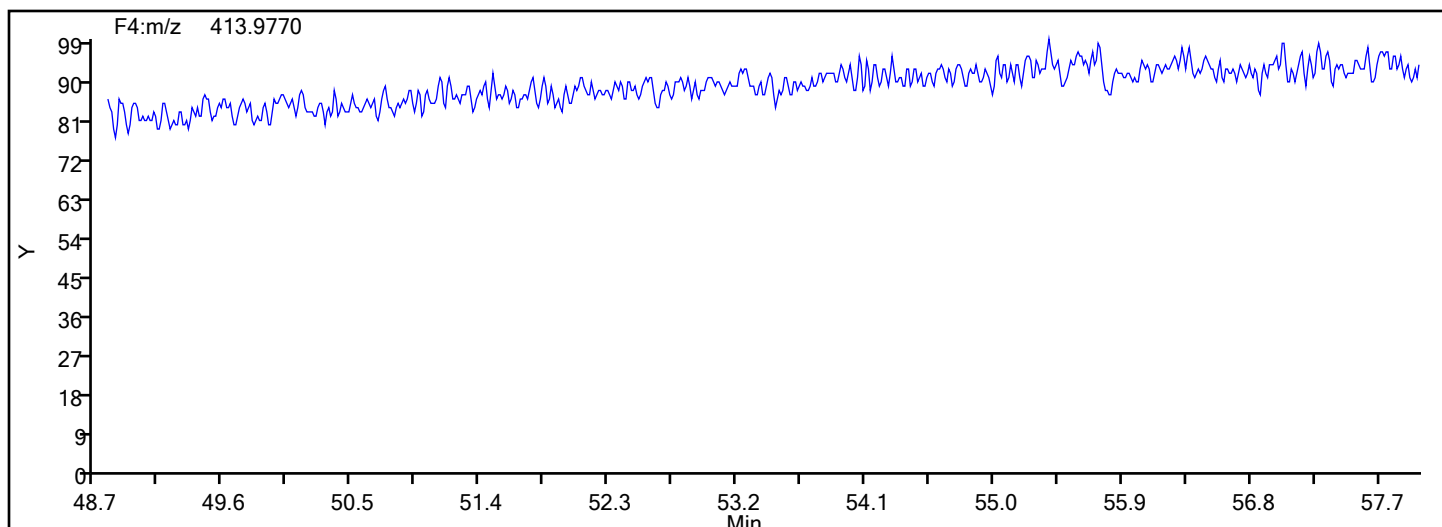
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville

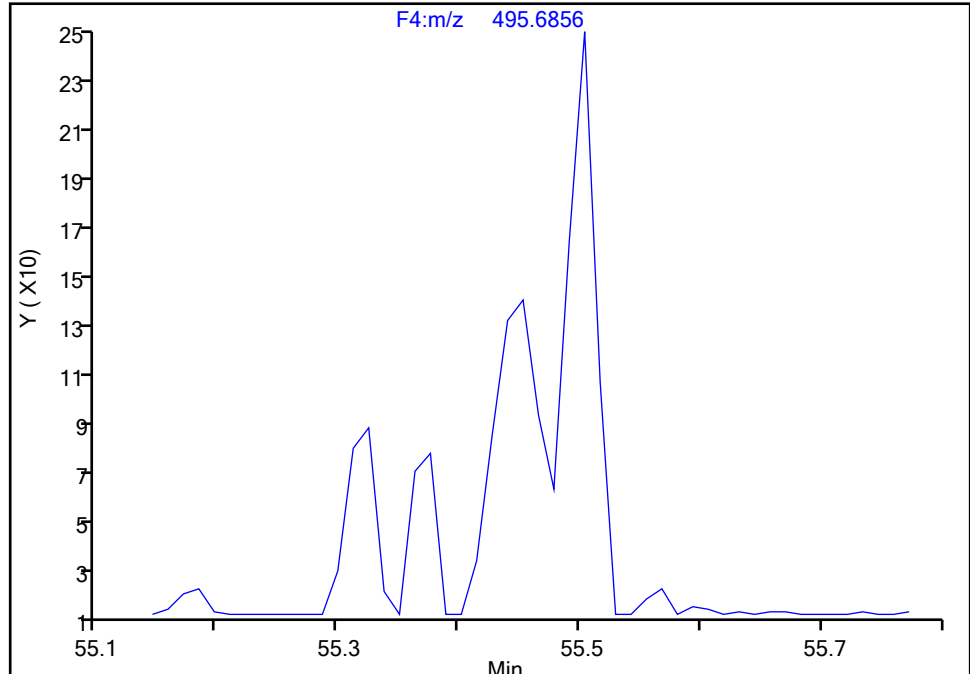
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d
Injection Date: 11-Jun-2024 15:03:00 Instrument ID: D2D
Lims ID: MB 140-87206/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

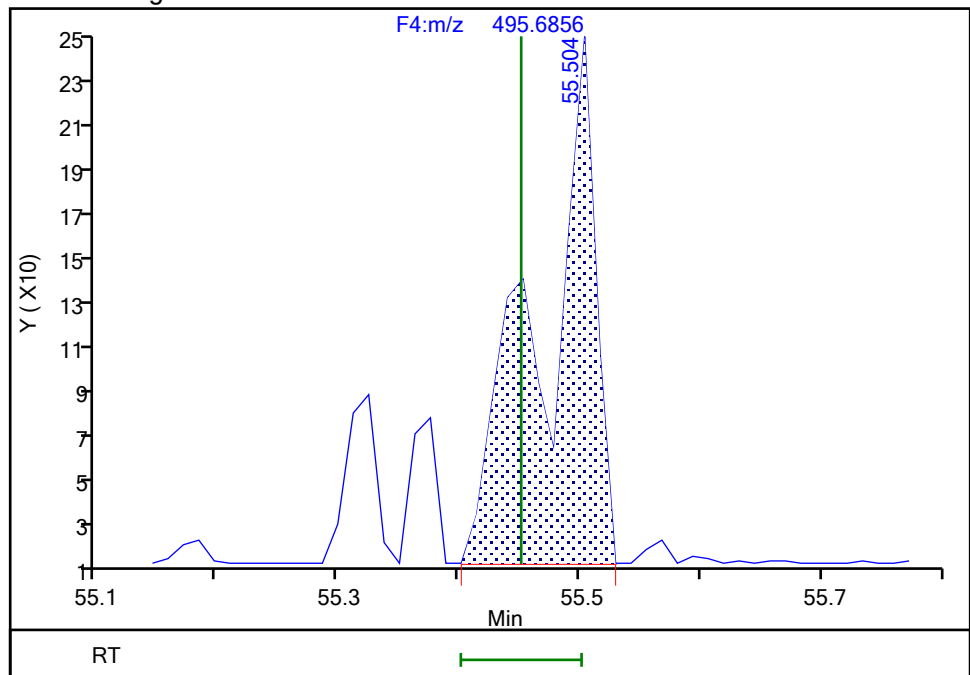
Not Detected
Expected RT: 55.45

Processing Integration Results



Manual Integration Results

RT: 55.50
Area: 706
Amount: 0.023172
Amount Units: pg/ul



Reviewer: TT6I, 12-Jun-2024 08:34:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

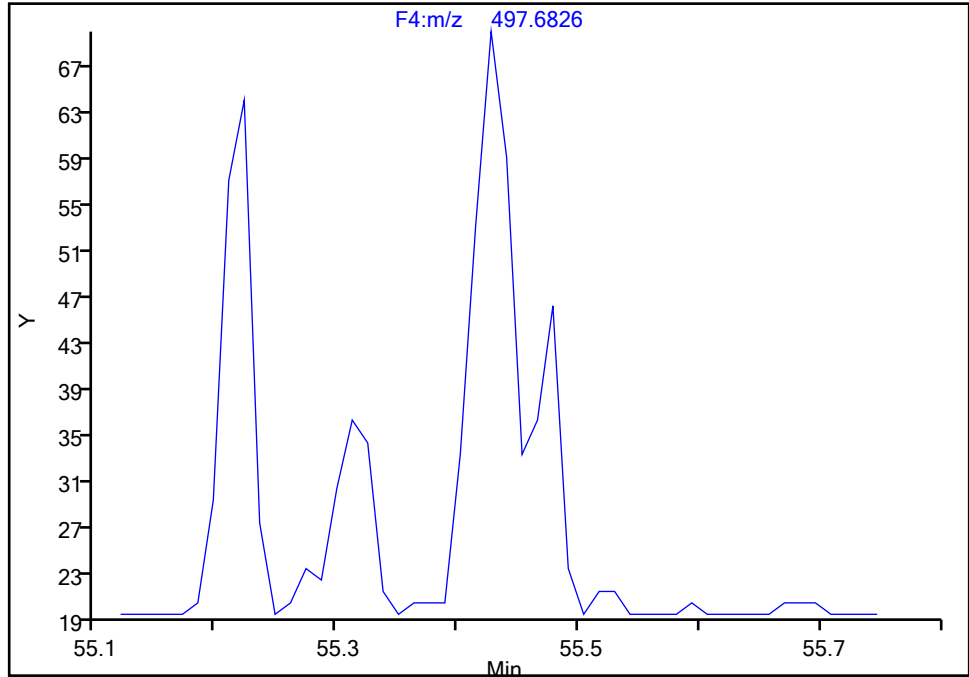
Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d
Injection Date: 11-Jun-2024 15:03:00 Instrument ID: D2D
Lims ID: MB 140-87206/17-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

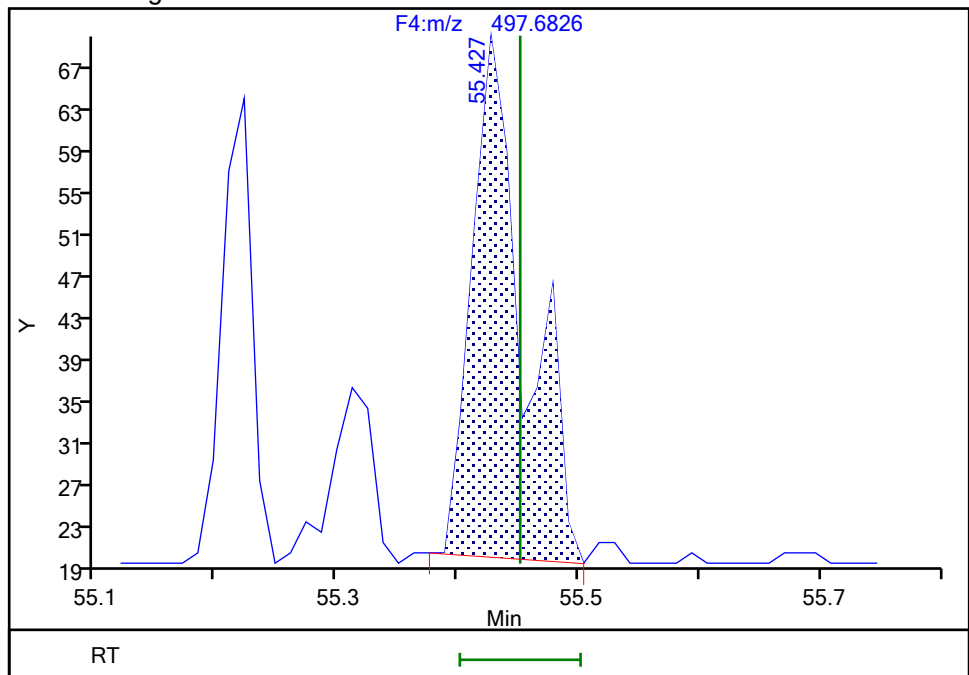
Not Detected
Expected RT: 55.45

Processing Integration Results



Manual Integration Results

RT: 55.43
Area: 151
Amount: 0.023172
Amount Units: pg/ul



Reviewer: TT6I, 12-Jun-2024 08:34:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\mb140-87206-17-b.d
Lims ID: MB 140-87206/17-B
Client ID:
Sample Type: MB
Inject. Date: 11-Jun-2024 15:03:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-008
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 12-Jun-2024 08:35:49 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1673

First Level Reviewer: TT6I

Date: 12-Jun-2024 08:35:49

Compound	Amount Added	Amount Recovered	% Rec.
PCB-28L	100.0	73.7	73.66
PCB-111L	100.0	82.0	82.00
PCB-178L	100.0	82.3	82.30

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-87206/15-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcs140-87206-15-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/11/2024 11:16</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	15.23		0.600	0.132	0.0142
37680-65-2	PCB-18	30.62	C	0.600	0.285	0.0101
7012-37-5	PCB-28	27.95	C20	0.600	0.252	0.147
41464-39-5	PCB-44	40.91	C	0.900	0.390	0.166
35693-99-3	PCB-52	14.30		0.300	0.132	0.175
32598-10-0	PCB-66	14.94		0.300	0.120	0.128
32598-13-3	PCB-77	14.11		0.300	0.126	0.145
70362-50-4	PCB-81	14.07		0.300	0.0960	0.153
37680-73-2	PCB-101	45.20	C90	0.900	0.390	0.0183
32598-14-4	PCB-105	14.09		0.300	0.102	0.208
74472-37-0	PCB-114	15.31		0.300	0.165	0.215
31508-00-6	PCB-118	13.95		0.300	0.183	0.186
65510-44-3	PCB-123	14.23		0.300	0.171	0.221
57465-28-8	PCB-126	17.32		0.300	0.123	0.229
38380-07-3	PCB-128	31.02	C	0.600	0.204	0.126
35065-28-2	PCB-138	56.76	C129	1.20	0.510	0.131
35065-27-1	PCB-153	28.47	C	0.600	0.249	0.113
38380-08-4	PCB-156	28.69	C	0.600	0.255	0.137
69782-90-7	PCB-157	28.69	C156	0.600	0.255	0.137
52663-72-6	PCB-167	15.15		0.300	0.180	0.0931
32774-16-6	PCB-169	16.35		0.300	0.123	0.0906
35065-30-6	PCB-170	14.27		0.300	0.132	0.0153
35065-29-3	PCB-180	30.81	C	0.600	0.204	0.0124
52663-68-0	PCB-187	15.64		0.300	0.126	0.0132
39635-31-9	PCB-189	15.62		0.300	0.147	0.0637
52663-78-2	PCB-195	15.38		0.300	0.159	0.145
40186-72-9	PCB-206	13.81		0.300	0.171	0.0914
2051-24-3	PCB-209	13.62		0.300	0.138	0.00998

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-87206/15-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcs140-87206-15-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/11/2024 11:16</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	68		15-145
208263-77-8	PCB-3L	67		15-145
234432-86-1	PCB-4L	71		15-145
208263-67-6	PCB-15L	71		15-145
234432-87-2	PCB-19L	69		15-145
208263-79-0	PCB-37L	74		15-145
234432-88-3	PCB-54L	73		15-145
105600-23-5	PCB-77L	78		40-145
208461-24-9	PCB-81L	77		40-145
234432-89-4	PCB-104L	78		40-145
208263-62-1	PCB-105L	84		40-145
208263-63-2	PCB-114L	81		40-145
104130-40-7	PCB-118L	82		40-145
208263-64-3	PCB-123L	81		40-145
208263-65-4	PCB-126L	86		40-145
234432-90-7	PCB-155L	82		40-145
208263-68-7	PCB-156L	85	C	40-145
235416-30-5	PCB-157L	85	C156	40-145
208263-69-8	PCB-167L	83		40-145
208263-70-1	PCB-169L	85		40-145
160901-80-4	PCB-170L	86		40-145
234432-91-8	PCB-188L	80		40-145
208263-73-4	PCB-189L	83		40-145
105600-26-8	PCB-202L	84		40-145
234446-64-1	PCB-205L	88		40-145
208263-75-6	PCB-206L	97		40-145
234432-92-9	PCB-208L	94		40-145
105600-27-9	PCB-209L	103		40-145

Lab Name: Eurofins Knoxville	Job No.: 140-36689-1
SDG No.:	
Client Sample ID:	Lab Sample ID: LCS 140-87206/15-B
Matrix: Air	Lab File ID: lcs140-87206-15-b.d
Analysis Method: 23	Date Collected:
Extract. Method: Combined Prep	Date Extracted: 05/31/2024 12:09
Sample wt/vol: 1(Sample)	Date Analyzed: 06/11/2024 11:16
Con. Extract Vol.: 30(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 87502	Units: ng/Sample
Preparation Batch No.: 87206	Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	72		15-145
235416-29-2	PCB-111L	79		40-145
232919-67-4	PCB-178L	83		40-145

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d
 Lims ID: LCS 140-87206/15-B
 Client ID:
 Sample Type: LCS
 Inject. Date: 11-Jun-2024 11:16:00 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033026-002
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 11-Jun-2024 14:41:20 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1603

First Level Reviewer: P0IK

Date: 11-Jun-2024 14:41:20

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					154.6	154.6	0.2143	0.2143		
D PCB-1L	11:35	7647948	3.10	1.6108	68.4	68.4	0.2482	0.2482	68.35	
D PCB-3L	13:43	7370067	3.27	1.5891	66.8	66.8	0.2516	0.2516	66.77	
PCB-1	11:35	4772313	3.14	1.2191	51.2	51.2	0.1892	0.1892	102	
PCB-2	13:34	4616669	3.15	1.1805	52.1	52.1	0.2172	0.2172	104	
PCB-3	13:44	4615504	3.21	1.2206	51.3	51.3	0.2364	0.2364	103	
S Total Dichlorobiphenyls					594.7	594.7	0.0546	0.0546		
D PCB-4L	13:59	3205649	1.64	0.6475	71.3	71.3	0.1257	0.1257	71.27	
* PCB-9L	15:56	6946116	1.62		100.0	100.0				
D PCB-15L	19:50	5298875	1.63	1.0789	70.7	70.7	0.0755	0.0755	70.70	
PCB-4	14:00	2069638	1.57	1.2818	50.4	50.4	0.0660	0.0660	101	
PCB-10	14:10	2699536	1.57	1.3149	48.3	48.3	0.0570	0.0570	96.57	
PCB-9	15:57	3078205	1.61	1.4224	50.9	50.9	0.0527	0.0527	102	
PCB-7	16:07	2821673	1.60	1.4134	46.9	46.9	0.0531	0.0531	93.90	
PCB-6	16:22	3268957	1.62	1.5421	49.9	49.9	0.0486	0.0486	99.70	
PCB-5	16:39	2709314	1.63	1.3395	47.6	47.6	0.0560	0.0560	95.13	
PCB-8	16:47	3429712	1.63	1.5889	50.8	50.8	0.0472	0.0472	102	
PCB-14	18:24	2888688	1.58	1.4025	48.4	48.4	0.0535	0.0535	96.88	
PCB-11	19:15	3097224	1.66	1.2951	56.2	56.2	0.0579	0.0579	112	
PCB-12	19:32	5653944	1.57	1.3358	99.5	99.5	0.0561	0.0561	99.54	
PCB-13 (C12)	19:32	5653944	1.57	1.3358	99.5	99.5	0.0561	0.0561	99.54	
PCB-15	19:51	3131399	1.58	1.2903	45.8	45.8	0.0522	0.0522	91.60	
S Total Trichlorobiphenyls					1193.1	1193.1	0.3410	0.3410		
D PCB-19L	17:04	2125570	1.05	0.6285	69.2	69.2	0.6013	0.6013	69.24	
* PCB-32L	20:18	4884337	1.08		100.0	100.0				
* PCB-31L	22:33	11771646	1.06		100.0	100.0				
\$ PCB-28L	22:51	8873658	1.05	1.0494	71.8	71.8	0.1309	0.1309	71.83	
D PCB-37L	26:51	7660944	1.06	0.8749	74.4	74.4	0.1570	0.1570	74.38	
PCB-19	17:05	1391299	1.02	1.2809	51.1	51.1	0.0462	0.0462	102	
PCB-18	18:55	3829319	1.05	1.7652	102.1	102.1	0.0335	0.0335	102	
PCB-30 (C18)	18:55	3829319	1.05	1.7652	102.1	102.1	0.0335	0.0335	102	
PCB-17	19:21	1322584	1.04	1.2430	50.1	50.1	0.0476	0.0476	100	
PCB-27	19:34	1884033	1.05	1.8327	48.4	48.4	0.0323	0.0323	96.73	
PCB-24	19:41	1892034	1.06	1.6777	53.1	53.1	0.0353	0.0353	106	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:48	1303431	1.05	1.1286	54.3	54.3	0.0524	0.0524	109	
PCB-32	20:19	2195471	1.05	1.8324	56.4	56.4	0.0323	0.0323	113	
PCB-34	21:35	3852876	1.07	1.1277	44.6	44.6	0.5077	0.5077	89.19	
PCB-23	21:44	3819317	1.04	1.0813	46.1	46.1	0.5295	0.5295	92.21	
PCB-26	22:03	7751618	1.05	1.1255	89.9	89.9	0.5087	0.5087	89.90	
PCB-29 (C26)	22:03	7751618	1.05	1.1255	89.9	89.9	0.5087	0.5087	89.90	
PCB-25	22:16	4906961	1.03	1.2728	50.3	50.3	0.4498	0.4498	101	
PCB-31	22:35	4570829	1.07	1.1532	51.7	51.7	0.4964	0.4964	103	
PCB-20	22:53	8362379	1.06	1.1718	93.2	93.2	0.4886	0.4886	93.15	
PCB-28 (C20)	22:53	8362379	1.06	1.1718	93.2	93.2	0.4886	0.4886	93.15	
PCB-21	23:03	8320286	1.06	1.0746	101.1	101.1	0.5328	0.5328	101	M
PCB-33 (C21)	23:03	8320286	1.06	1.0746	101.1	101.1	0.5328	0.5328	101	M
PCB-22	23:30	4499671	1.04	1.1932	49.2	49.2	0.4798	0.4798	98.45	
PCB-36	25:04	4738875	1.06	1.1071	55.9	55.9	0.5172	0.5172	112	
PCB-39	25:25	4299115	1.02	1.1581	48.5	48.5	0.4943	0.4943	96.91	
PCB-38	25:59	4309365	1.05	1.0843	51.9	51.9	0.5280	0.5280	104	
PCB-35	26:28	4107297	1.06	1.1297	47.5	47.5	0.5068	0.5068	94.92	
PCB-37	26:52	4201434	1.08	1.1435	48.0	48.0	0.5007	0.5007	95.92	
S Total Tetrachlorobiphenyls					1962.8	1962.8	0.4885	0.4885		
D PCB-54L	20:08	1994276	0.86	0.5562	73.4	73.4	0.0437	0.0437	73.41	
* PCB-52L	24:41	6296539	0.80		100.0	100.0				
D PCB-81L	33:34	6055235	0.80	1.2470	77.1	77.1	0.0775	0.0775	77.12	
D PCB-77L	34:08	6507454	0.81	1.3212	78.2	78.2	0.0731	0.0731	78.22	
PCB-54	20:10	1249889	0.76	1.2733	49.2	49.2	0.0752	0.0752	98.44	
PCB-50	22:20	5000481	0.79	0.8578	92.8	92.8	0.6261	0.6261	92.81	
PCB-53 (C50)	22:20	5000481	0.79	0.8578	92.8	92.8	0.6261	0.6261	92.81	
PCB-45	23:03	4583428	0.80	0.8264	88.3	88.3	0.6499	0.6499	88.29	M
PCB-51 (C45)	23:03	4583428	0.80	0.8264	88.3	88.3	0.6499	0.6499	88.29	M
PCB-46	23:18	1987111	0.79	0.7101	44.6	44.6	0.7563	0.7563	89.10	
PCB-52	24:42	2752733	0.80	0.9194	47.7	47.7	0.5841	0.5841	95.33	
PCB-43	24:51	5968374	0.79	1.0333	92.0	92.0	0.5197	0.5197	91.95	M
PCB-73 (C43)	24:51	5968374	0.79	1.0333	92.0	92.0	0.5197	0.5197	91.95	M
PCB-49	25:08	5830627	0.79	1.0685	86.9	86.9	0.5026	0.5026	86.87	
PCB-69 (C49)	25:08	5830627	0.79	1.0685	86.9	86.9	0.5026	0.5026	86.87	
PCB-48	25:28	2465262	0.80	0.8399	46.7	46.7	0.6394	0.6394	93.46	
PCB-44	25:42	8334679	0.79	0.9731	136.4	136.4	0.5519	0.5519	90.91	
PCB-47 (C44)	25:42	8334679	0.79	0.9731	136.4	136.4	0.5519	0.5519	90.91	
PCB-65 (C44)	25:42	8334679	0.79	0.9731	136.4	136.4	0.5519	0.5519	90.91	
PCB-59	26:01	9883651	0.79	1.1853	132.8	132.8	0.4531	0.4531	88.50	
PCB-62 (C59)	26:01	9883651	0.79	1.1853	132.8	132.8	0.4531	0.4531	88.50	
PCB-75 (C59)	26:01	9883651	0.79	1.1853	132.8	132.8	0.4531	0.4531	88.50	
PCB-42	26:13	2286950	0.82	0.8097	45.0	45.0	0.6633	0.6633	89.94	
PCB-40	26:43	7567806	0.79	0.8863	135.9	135.9	0.6059	0.6059	90.62	M
PCB-41 (C40)	26:43	7567806	0.79	0.8863	135.9	135.9	0.6059	0.6059	90.62	M
PCB-71 (C40)	26:43	7567806	0.79	0.8863	135.9	135.9	0.6059	0.6059	90.62	M
PCB-64	26:56	3439528	0.81	1.1776	46.5	46.5	0.4561	0.4561	93.00	
PCB-72	27:46	3767170	0.80	1.0943	54.8	54.8	0.4908	0.4908	110	
PCB-68	28:03	3613733	0.78	1.2533	45.9	45.9	0.4285	0.4285	91.81	
PCB-57	28:28	3578804	0.80	1.0818	52.7	52.7	0.4964	0.4964	105	
PCB-58	28:43	4070039	0.80	1.3253	48.9	48.9	0.4052	0.4052	97.78	
PCB-67	28:52	4206532	0.81	1.4230	47.1	47.1	0.3774	0.3774	94.12	
PCB-63	29:08	3392193	0.79	1.1240	48.0	48.0	0.4778	0.4778	96.10	
PCB-61	29:29	14853950	0.81	1.2612	187.5	187.5	0.4258	0.4258	93.75	
PCB-70 (C61)	29:29	14853950	0.81	1.2612	187.5	187.5	0.4258	0.4258	93.75	
PCB-74 (C61)	29:29	14853950	0.81	1.2612	187.5	187.5	0.4258	0.4258	93.75	
PCB-76 (C61)	29:29	14853950	0.81	1.2612	187.5	187.5	0.4258	0.4258	93.75	
PCB-66	29:48	3937121	0.78	1.2583	49.8	49.8	0.4268	0.4268	99.63	
PCB-55	29:57	3971273	0.79	1.3236	47.8	47.8	0.4057	0.4057	95.53	
PCB-56	30:28	3782632	0.78	1.2334	48.8	48.8	0.4354	0.4354	97.65	
PCB-60	30:40	3235577	0.78	1.1230	45.9	45.9	0.4782	0.4782	91.74	
PCB-80	31:05	3784800	0.82	1.3243	45.5	45.5	0.4056	0.4056	91.00	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:36	4491653	0.78	1.4368	49.8	49.8	0.3738	0.3738	99.54	
PCB-78	33:10	3786784	0.73	1.1618	51.9	51.9	0.4622	0.4622	104	
PCB-81	33:36	3067416	0.81	1.0802	46.9	46.9	0.5106	0.5106	93.79	
PCB-77	34:10	3317060	0.79	1.0836	47.0	47.0	0.4829	0.4829	94.08	
S Total Pentachlorobiphenyls					2345.3	2345.3	0.2720	0.2720		
D PCB-104L	25:38	4278910	1.60	1.2161	77.8	77.8	0.0551	0.0551	77.75	
* PCB-101L	31:31	4525378	1.57		100.0	100.0				
\$ PCB-111L	34:11	4884445	1.59	1.3699	78.8	78.8	0.0490	0.0490	78.79	
D PCB-123L	36:08	6004376	1.55	0.9731	81.2	81.2	1.043	1.043	81.18	
D PCB-118L	36:28	6281051	1.64	1.0102	81.8	81.8	1.004	1.004	81.81	
D PCB-114L	36:59	6152435	1.60	0.9949	81.4	81.4	1.020	1.020	81.37	
D PCB-105L	37:38	6052043	1.58	0.9514	83.7	83.7	1.066	1.066	83.69	
* PCB-127L	39:06	7600213	1.58		100.0	100.0				
D PCB-126L	40:43	6136942	1.57	0.9439	85.5	85.5	1.075	1.075	85.55	
PCB-104	25:38	2177530	1.61	1.0087	50.5	50.5	0.0578	0.0578	101	
PCB-96	26:01	2484215	1.63	1.0940	53.1	53.1	0.0532	0.0532	106	
PCB-103	27:57	1830126	1.60	0.8741	48.9	48.9	0.0666	0.0666	97.86	
PCB-94	28:10	1548287	1.61	0.7640	47.4	47.4	0.0762	0.0762	94.72	
PCB-95	28:36	1728782	1.65	0.8033	50.3	50.3	0.0725	0.0725	101	
PCB-93	28:50	3349637	1.59	0.8429	92.9	92.9	0.0691	0.0691	92.88	
PCB-100 (C93)	28:50	3349637	1.59	0.8429	92.9	92.9	0.0691	0.0691	92.88	
PCB-98	28:59	4081330	1.59	0.8262	115.5	115.5	0.0705	0.0705	115	M
PCB-102 (C98)	28:59	4081330	1.59	0.8262	115.5	115.5	0.0705	0.0705	115	M
PCB-88	29:28	3389096	1.56	0.8013	98.8	98.8	0.0727	0.0727	98.85	
PCB-91 (C88)	29:28	3389096	1.56	0.8013	98.8	98.8	0.0727	0.0727	98.85	
PCB-84	29:42	1545255	1.58	0.7299	49.5	49.5	0.0798	0.0798	98.95	
PCB-89	30:10	1899497	1.61	0.7798	56.9	56.9	0.0747	0.0747	114	
PCB-121	30:35	2705176	1.57	1.2964	48.8	48.8	0.0449	0.0449	97.53	
PCB-92	30:58	1728243	1.59	0.8546	47.3	47.3	0.0682	0.0682	94.53	
PCB-90	31:31	6157112	1.61	0.9550	150.7	150.7	0.0610	0.0610	100	
PCB-101 (C90)	31:31	6157112	1.61	0.9550	150.7	150.7	0.0610	0.0610	100	
PCB-113 (C90)	31:31	6157112	1.61	0.9550	150.7	150.7	0.0610	0.0610	100	
PCB-83	32:07	3785680	1.59	0.8385	105.5	105.5	0.0695	0.0695	106	
PCB-99 (C83)	32:07	3785680	1.59	0.8385	105.5	105.5	0.0695	0.0695	106	
PCB-112	32:14	3026506	1.58	1.4111	50.1	50.1	0.0413	0.0413	100	
PCB-86	32:36	13428317	1.58	1.0473	299.7	299.7	0.0556	0.0556	99.89	M
PCB-87 (C86)	32:36	13428317	1.58	1.0473	299.7	299.7	0.0556	0.0556	99.89	M
PCB-97 (C86)	32:36	13428317	1.58	1.0473	299.7	299.7	0.0556	0.0556	99.89	M
PCB-109 (C86)	32:36	13428317	1.58	1.0473	299.7	299.7	0.0556	0.0556	99.89	M
PCB-119 (C86)	32:36	13428317	1.58	1.0473	299.7	299.7	0.0556	0.0556	99.89	M
PCB-125 (C86)	32:36	13428317	1.58	1.0473	299.7	299.7	0.0556	0.0556	99.89	M
PCB-85	33:20	6567814	1.58	1.0408	147.5	147.5	0.0560	0.0560	98.32	
PCB-116 (C85)	33:20	6567814	1.58	1.0408	147.5	147.5	0.0560	0.0560	98.32	
PCB-117 (C85)	33:20	6567814	1.58	1.0408	147.5	147.5	0.0560	0.0560	98.32	
PCB-110	33:31	5790447	1.58	1.1919	113.5	113.5	0.0489	0.0489	114	
PCB-115 (C110)	33:31	5790447	1.58	1.1919	113.5	113.5	0.0489	0.0489	114	
PCB-82	33:49	1948934	1.58	0.8303	54.9	54.9	0.0702	0.0702	110	
PCB-111	34:13	2567372	1.59	1.2125	49.5	49.5	0.0480	0.0480	98.97	
PCB-120	34:40	3249613	1.55	1.4762	51.4	51.4	0.0395	0.0395	103	
PCB-108	35:48	7023485	1.55	1.1405	100.5	100.5	0.6957	0.6957	101	
PCB-124 (C108)	35:48	7023485	1.55	1.1405	100.5	100.5	0.6957	0.6957	101	
PCB-107	36:03	3894463	1.60	1.2121	52.5	52.5	0.6546	0.6546	105	
PCB-123	36:10	3054172	1.59	1.0722	47.4	47.4	0.7369	0.7369	94.88	
PCB-106	36:17	3718238	1.59	1.0839	56.0	56.0	0.7320	0.7320	112	
PCB-118	36:29	3519856	1.58	1.2055	46.5	46.5	0.6197	0.6197	92.97	
PCB-122	36:50	2904358	1.57	0.9567	49.6	49.6	0.8294	0.8294	99.12	
PCB-114	37:01	3403207	1.56	1.0842	51.0	51.0	0.7152	0.7152	102	
PCB-105	37:40	3376955	1.46	1.1879	47.0	47.0	0.6923	0.6923	93.94	
PCB-127	39:08	3812105	1.56	1.1394	54.6	54.6	0.6964	0.6964	109	
PCB-126	40:44	3888198	1.60	1.0976	57.7	57.7	0.7645	0.7645	115	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Hexachlorobiphenyls					2068.3	2068.3	0.3326	0.3326		
D PCB-155L	31:17	4009192	1.28	1.0851	81.6	81.6	0.0473	0.0473	81.64	
* PCB-138L	39:35	5417696	1.26		100.0	100.0				
D PCB-167L	42:35	5665892	1.26	1.2572	83.2	83.2	0.6079	0.6079	83.18	
D PCB-156L	43:44	11108518	1.29	1.2106	169.4	169.4	0.6313	0.6313	84.69	
D PCB-157L (C156L)	43:44	11108518	1.29	1.2106	169.4	169.4	0.6313	0.6313	84.69	
D PCB-169L	46:58	5702093	1.28	1.2439	84.6	84.6	0.6145	0.6145	84.62	
PCB-155	31:18	1839091	1.31	0.9444	48.6	48.6	0.0619	0.0619	97.14	
PCB-152	31:30	2291957	1.27	0.9895	57.8	57.8	0.0591	0.0591	116	
PCB-150	31:40	1980601	1.29	1.0132	48.8	48.8	0.0577	0.0577	97.51	
PCB-136	32:01	1885299	1.32	1.0116	46.5	46.5	0.0578	0.0578	92.97	
PCB-145	32:19	2187140	1.22	0.9685	56.3	56.3	0.0604	0.0604	113	
PCB-148	33:50	1501715	1.28	0.7603	49.3	49.3	0.0769	0.0769	98.53	
PCB-135	34:29	3057717	1.32	0.7256	105.1	105.1	0.0806	0.0806	105	M
PCB-151 (C135)	34:29	3057717	1.32	0.7256	105.1	105.1	0.0806	0.0806	105	M
PCB-154	34:41	1657378	1.26	0.8129	50.9	50.9	0.0719	0.0719	102	
PCB-144	35:00	1478371	1.30	0.7852	47.0	47.0	0.0745	0.0745	93.92	
PCB-147	35:20	5056152	1.29	0.8950	100.5	100.5	0.4614	0.4614	101	M
PCB-149 (C147)	35:20	5056152	1.29	0.8950	100.5	100.5	0.4614	0.4614	101	M
PCB-134	35:39	3989644	1.25	0.7967	89.1	89.1	0.5184	0.5184	89.12	
PCB-143 (C134)	35:39	3989644	1.25	0.7967	89.1	89.1	0.5184	0.5184	89.12	
PCB-139	35:56	4819541	1.27	0.8769	97.8	97.8	0.4710	0.4710	97.81	
PCB-140 (C139)	35:56	4819541	1.27	0.8769	97.8	97.8	0.4710	0.4710	97.81	
PCB-131	36:09	2000551	1.28	0.7503	47.5	47.5	0.5504	0.5504	94.90	
PCB-142	36:18	1990352	1.25	0.7507	47.2	47.2	0.5501	0.5501	94.37	
PCB-132	36:37	2111773	1.29	0.7489	50.2	50.2	0.5514	0.5514	100	
PCB-133	37:07	2261786	1.28	0.8096	49.7	49.7	0.5101	0.5101	99.44	
PCB-165	37:30	2683340	1.28	1.0247	46.6	46.6	0.4030	0.4030	93.20	
PCB-146	37:45	2688435	1.27	0.9637	49.6	49.6	0.4285	0.4285	99.30	
PCB-161	37:53	3305185	1.28	1.1288	52.1	52.1	0.3659	0.3659	104	
PCB-153	38:23	5832715	1.26	1.0938	94.9	94.9	0.3776	0.3776	94.90	
PCB-168 (C153)	38:23	5832715	1.26	1.0938	94.9	94.9	0.3776	0.3776	94.90	
PCB-141	38:33	2352452	1.27	0.8755	47.8	47.8	0.4717	0.4717	95.63	
PCB-130	38:59	1854028	1.25	0.7051	46.8	46.8	0.5857	0.5857	93.59	
PCB-137	39:11	2220714	1.37	0.7767	50.9	50.9	0.5317	0.5317	102	
PCB-164	39:19	3162931	1.21	1.0382	54.2	54.2	0.3978	0.3978	108	
PCB-129	39:37	10062152	1.27	0.9464	189.2	189.2	0.4364	0.4364	94.61	M
PCB-138 (C129)	39:37	10062152	1.27	0.9464	189.2	189.2	0.4364	0.4364	94.61	M
PCB-160 (C129)	39:37	10062152	1.27	0.9464	189.2	189.2	0.4364	0.4364	94.61	M
PCB-163 (C129)	39:37	10062152	1.27	0.9464	189.2	189.2	0.4364	0.4364	94.61	M
PCB-158	39:59	3324931	1.21	1.3110	45.1	45.1	0.3150	0.3150	90.27	
PCB-128	40:50	5710594	1.26	0.9829	103.4	103.4	0.4201	0.4201	103	
PCB-166 (C128)	40:50	5710594	1.26	0.9829	103.4	103.4	0.4201	0.4201	103	
PCB-159	41:51	3706062	1.26	1.3856	47.6	47.6	0.2980	0.2980	95.20	
PCB-162	42:08	3336776	1.24	1.2571	47.2	47.2	0.3285	0.3285	94.48	
PCB-167	42:36	3193685	1.23	1.1159	50.5	50.5	0.3102	0.3102	101	
PCB-156	43:46	5897901	1.25	1.1104	95.6	95.6	0.4562	0.4562	95.63	
PCB-157 (C156)	43:46	5897901	1.25	1.1104	95.6	95.6	0.4562	0.4562	95.63	
PCB-169	46:59	3614116	1.29	1.1628	54.5	54.5	0.3018	0.3018	109	
S Total Heptachlorobiphenyls					1235.9	1235.9	0.0524	0.0524		
D PCB-188L	36:59	4580351	1.06	1.3133	80.2	80.2	0.0407	0.0407	80.19	
\$ PCB-178L	40:03	3717510	1.09	1.0313	82.9	82.9	0.0518	0.0518	82.88	
* PCB-180L	45:08	4348969	1.07		100.0	100.0				
D PCB-170L	46:23	3139596	1.10	0.8362	86.3	86.3	0.0638	0.0638	86.33	
D PCB-189L	49:29	6843093	1.05	1.4414	83.1	83.1	0.1774	0.1774	83.13	
PCB-188	37:01	2513243	1.03	1.1350	48.3	48.3	0.0356	0.0356	96.69	
PCB-179	37:22	2788992	1.06	1.4276	50.6	50.6	0.0339	0.0339	101	
PCB-184	37:53	2549168	1.08	1.3672	48.3	48.3	0.0354	0.0354	96.61	
PCB-176	38:14	2437422	1.08	1.2331	51.2	51.2	0.0392	0.0392	102	
PCB-186	38:41	2893461	1.06	1.4737	50.9	50.9	0.0328	0.0328	102	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-178	40:04	1815882	1.11	0.8946	52.6	52.6	0.0541	0.0541	105	
PCB-175	40:42	1802052	1.07	0.9524	49.0	49.0	0.0508	0.0508	98.04	
PCB-187	40:59	2216854	1.04	1.1018	52.1	52.1	0.0439	0.0439	104	
PCB-182	41:10	2189136	1.01	0.9247	61.3	61.3	0.0523	0.0523	123	
PCB-183	41:35	3779299	1.06	0.9825	99.7	99.7	0.0493	0.0493	99.65	M
PCB-185 (C183)	41:35	3779299	1.06	0.9825	99.7	99.7	0.0493	0.0493	99.65	M
PCB-174	41:50	2030944	1.06	0.9642	54.6	54.6	0.0502	0.0502	109	
PCB-177	42:15	1946788	1.08	0.9773	51.6	51.6	0.0495	0.0495	103	
PCB-181	42:38	2063552	1.02	0.9505	56.2	56.2	0.0509	0.0509	112	
PCB-171	42:52	3639096	1.03	0.9336	101.0	101.0	0.0518	0.0518	101	
PCB-173 (C171)	42:52	3639096	1.03	0.9336	101.0	101.0	0.0518	0.0518	101	
PCB-172	44:30	1852725	1.03	0.8519	56.3	56.3	0.0568	0.0568	113	
PCB-192	44:47	2700882	1.06	1.3459	52.0	52.0	0.0360	0.0360	104	
PCB-180	45:07	4628800	1.03	1.1676	102.7	102.7	0.0414	0.0414	103	
PCB-193 (C180)	45:07	4628800	1.03	1.1676	102.7	102.7	0.0414	0.0414	103	
PCB-191	45:30	2470207	1.07	1.2891	49.6	49.6	0.0375	0.0375	99.29	
PCB-170	46:24	1771576	1.10	1.1865	47.6	47.6	0.0509	0.0509	95.11	
PCB-190	46:55	2476211	1.10	1.3322	48.2	48.2	0.0363	0.0363	96.31	
PCB-189	49:31	3433276	1.04	0.9633	52.1	52.1	0.2123	0.2123	104	
S Total Octachlorobiphenyls					625.9	625.9	0.1582	0.1582		
D PCB-202L	42:21	3593287	0.89	0.9818	84.2	84.2	0.0278	0.0278	84.15	
* PCB-194L	51:36	5711064	0.91		100.0	100.0				
D PCB-205L	52:04	5919871	0.89	1.1786	88.0	88.0	0.0774	0.0774	87.95	
PCB-202	42:23	1919236	0.89	1.0359	51.6	51.6	0.0554	0.0554	103	
PCB-201	43:18	1795145	0.90	0.9754	51.2	51.2	0.0588	0.0588	102	
PCB-204	43:58	2057860	0.89	1.0485	54.6	54.6	0.0547	0.0547	109	
PCB-197	44:12	2014573	0.86	1.1458	48.9	48.9	0.0501	0.0501	97.86	
PCB-200	44:18	1886354	0.91	1.0072	52.1	52.1	0.0570	0.0570	104	
PCB-198	47:05	3285835	0.90	0.8698	105.1	105.1	0.0660	0.0660	105	
PCB-199 (C198)	47:05	3285835	0.90	0.8698	105.1	105.1	0.0660	0.0660	105	
PCB-196	47:46	1506367	0.89	0.7806	53.7	53.7	0.0735	0.0735	107	
PCB-203	47:58	1854577	0.91	0.9292	55.5	55.5	0.0618	0.0618	111	
PCB-195	49:16	2507959	0.89	0.8263	51.3	51.3	0.4841	0.4841	103	
PCB-194	51:37	2873623	0.88	0.9735	49.9	49.9	0.4109	0.4109	99.73	
PCB-205	52:05	3341808	0.91	1.0878	51.9	51.9	0.3678	0.3678	104	
S Total Nonachlorobiphenyls					136.2	136.2	0.2726	0.2726		
D PCB-208L	49:01	5138048	0.79	0.9576	94.0	94.0	0.3759	0.3759	93.95	
D PCB-206L	53:49	3830588	0.80	0.6947	96.6	96.6	0.5182	0.5182	96.55	
PCB-208	49:03	2685504	0.80	1.1374	46.0	46.0	0.2628	0.2628	91.90	
PCB-207	49:58	2725614	0.76	1.3756	44.2	44.2	0.2504	0.2504	88.37	
PCB-206	53:50	2353817	0.80	1.3346	46.0	46.0	0.3046	0.3046	92.09	
D PCB-209L	55:26	3941562	0.71	0.6669	103.5	103.5	0.0653	0.0653	103	
DCB Decachlorobiphenyl	55:28	1969236	0.71	1.1004	45.4	45.4	0.0333	0.0333	90.80	
S Polychlorinated biphenyls, Total					10208	10208	0.2228	0.2228		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d
 Lims ID: LCS 140-87206/15-B
 Client ID:
 Sample Type: LCS
 Inject. Date: 11-Jun-2024 11:16:00 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033026-002
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 11-Jun-2024 14:41:20 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1603

First Level Reviewer: P0IK

Date: 11-Jun-2024 14:41:20

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:35	11:34	0	0.727	5780976	2323858	2020	5050	1150		
202.0766	11:35	11:34	0	0.727	1866972	753988	1240	3100	608	3.10(2.66-3.60)	
PCB-3L											
200.0795	13:43	13:43	0	0.861	5643042	1871684	2020	5050	927		
202.0766	13:43	13:43	0	0.861	1727025	588948	1240	3100	475	3.27(2.66-3.60)	
PCB-1											
188.0393	11:35	11:35	0	1.001	3619246	1481294	2210	5525	670		
190.0363	11:35	11:35	0	1.001	1153067	466674	630	1575	741	3.14(2.66-3.60)	
PCB-2											
188.0393	13:34	13:34	0	0.988	3504387	1223459	2210	5525	554		
190.0363	13:34	13:34	0	0.988	1112282	390234	630	1575	619	3.15(2.66-3.60)	
PCB-3											
188.0393	13:44	13:44	0	1.001	3519067	1153170	2210	5525	522		
190.0363	13:44	13:44	0	1.001	1096437	367067	630	1575	583	3.21(2.66-3.60)	
PCB-4L											
234.0406	13:59	13:59	0	0.878	1991900	645141	497	1242	1298		
236.0376	13:59	13:59	0	0.878	1213749	400254	167	417	2397	1.64(1.33-1.79)	
PCB-9L											
234.0406	15:56	15:56	0		4299192	1263145	497	1242	2542		
236.0376	15:56	15:56	0		2646924	775541	167	417	4644	1.62(1.33-1.79)	
PCB-15L											
234.0406	19:50	19:50	0	1.245	3283851	814592	497	1242	1639		
236.0376	19:50	19:50	0	1.245	2015024	499919	167	417	2994	1.63(1.33-1.79)	
PCB-4											
222.0003	14:00	14:00	0	1.001	1263696	421868	100	250	4219		
223.9974	14:00	14:00	0	1.001	805942	266731	254	635	1050	1.57(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-10											
222.0003	14:10	14:10	0	1.013	1647456	541811	100	250	5418		
223.9974	14:10	14:10	0	1.013	1052080	333470	254	635	1313	1.57(1.33-1.79)	
PCB-9											
222.0003	15:57	15:57	0	1.141	1899847	555443	100	250	5554		
223.9974	15:57	15:57	-1	1.140	1178358	339692	254	635	1337	1.61(1.33-1.79)	
PCB-7											
222.0003	16:07	16:07	0	1.152	1738017	506298	100	250	5063		
223.9974	16:07	16:07	0	1.152	1083656	312847	254	635	1232	1.60(1.33-1.79)	
PCB-6											
222.0003	16:22	16:22	0	1.170	2021888	566609	100	250	5666		
223.9974	16:22	16:22	0	1.170	1247069	349879	254	635	1377	1.62(1.33-1.79)	
PCB-5											
222.0003	16:39	16:40	-1	1.191	1678506	468061	100	250	4681		
223.9974	16:39	16:40	-1	1.191	1030808	292133	254	635	1150	1.63(1.33-1.79)	
PCB-8											
222.0003	16:47	16:47	0	1.200	2126488	589273	100	250	5893		
223.9974	16:47	16:47	0	1.200	1303224	365408	254	635	1439	1.63(1.33-1.79)	
PCB-14											
222.0003	18:24	18:24	0	0.928	1767513	463965	100	250	4640		
223.9974	18:24	18:24	0	0.928	1121175	284186	254	635	1119	1.58(1.33-1.79)	
PCB-11											
222.0003	19:15	19:14	0	0.970	1930673	479318	100	250	4793		
223.9974	19:14	19:14	-1	0.970	1166551	290823	254	635	1145	1.66(1.33-1.79)	
PCB-12											
222.0003	19:32	19:32	0	0.985	3456669	577678	100	250	5777		
223.9974	19:32	19:32	0	0.985	2197275	370486	254	635	1459	1.57(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:32	19:32	0	0.985	3456669	577678	100	250	5777		
223.9974	19:32	19:32	0	0.985	2197275	370486	254	635	1459	1.57(1.33-1.79)	
PCB-15											
222.0003	19:51	19:51	0	1.001	1917697	437828	100	250	4378		
223.9974	19:51	19:51	0	1.001	1213702	271761	254	635	1070	1.58(1.33-1.79)	
PCB-19L											
268.0016	17:04	17:04	0	0.841	1089637	291202	769	1922	379		
269.9986	17:04	17:04	0	0.841	1035933	283533	1035	2587	274	1.05(0.88-1.20)	
PCB-32L											
268.0016	20:18	20:18	0		2538843	613765	769	1922	798		
269.9986	20:18	20:18	0		2345494	579514	1035	2587	560	1.08(0.88-1.20)	
PCB-31L											
268.0016	22:33	22:34	0		6052679	1396473	955	2387	1462		
269.9986	22:33	22:34	0		5718967	1327195	542	1355	2449	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:51	22:51	0	1.013	4547438	1050493	955	2387	1100		
269.9986	22:51	22:51	0	1.013	4326220	980715	542	1355	1809	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37L											
268.0016	26:51	26:50	0	1.190	3936120	826925	955	2387	866		
269.9986	26:51	26:50	0	1.190	3724824	782616	542	1355	1444	1.06(0.88-1.20)	
PCB-19											
255.9613	17:05	17:05	0	1.001	703964	199626	78	195	2559		
257.9584	17:05	17:05	0	1.001	687335	190020	58	145	3276	1.02(0.88-1.20)	
PCB-18											
255.9613	18:55	18:55	0	1.108	1959943	353478	78	195	4532		
257.9584	18:55	18:55	0	1.108	1869376	336159	58	145	5796	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:55	18:55	0	1.108	1959943	353478	78	195	4532		
257.9584	18:55	18:55	0	1.108	1869376	336159	58	145	5796	1.05(0.88-1.20)	
PCB-17											
255.9613	19:21	19:21	-1	1.133	675720	170127	78	195	2181		
257.9584	19:22	19:21	0	1.134	646864	159906	58	145	2757	1.04(0.88-1.20)	
PCB-27											
255.9613	19:34	19:34	0	1.146	964657	241688	78	195	3099		
257.9584	19:34	19:34	0	1.146	919376	236765	58	145	4082	1.05(0.88-1.20)	
PCB-24											
255.9613	19:41	19:42	-1	1.153	975007	243148	78	195	3117		
257.9584	19:41	19:42	-1	1.153	917027	226661	58	145	3908	1.06(0.88-1.20)	
PCB-16											
255.9613	19:48	19:49	-1	1.160	667817	162713	78	195	2086		
257.9584	19:48	19:49	-1	1.160	635614	151900	58	145	2619	1.05(0.88-1.20)	
PCB-32											
255.9613	20:19	20:19	0	1.190	1122441	268309	78	195	3440		
257.9584	20:19	20:19	0	1.190	1073030	262713	58	145	4530	1.05(0.88-1.20)	
PCB-34											
255.9613	21:35	21:35	0	1.264	1990336	462736	1708	4270	271		
257.9584	21:35	21:35	0	1.264	1862540	452575	1978	4945	229	1.07(0.88-1.20)	
PCB-23											
255.9613	21:44	21:43	0	1.273	1945661	463571	1708	4270	271		
257.9584	21:44	21:43	0	1.273	1873656	444497	1978	4945	225	1.04(0.88-1.20)	
PCB-26											
255.9613	22:03	22:02	0	1.291	3964133	834284	1708	4270	488		
257.9584	22:03	22:02	0	1.291	3787485	798813	1978	4945	404	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:03	22:02	0	1.291	3964133	834284	1708	4270	488		
257.9584	22:03	22:02	0	1.291	3787485	798813	1978	4945	404	1.05(0.88-1.20)	
PCB-25											
255.9613	22:16	22:16	0	0.829	2495424	542307	1708	4270	318		
257.9584	22:16	22:16	0	0.829	2411537	508153	1978	4945	257	1.03(0.88-1.20)	
PCB-31											
255.9613	22:35	22:35	0	0.841	2361571	544639	1708	4270	319		
257.9584	22:35	22:35	0	0.841	2209258	510968	1978	4945	258	1.07(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-20											
255.9613	22:53	22:53	0	0.853	4294026	810998	1708	4270	475		
257.9584	22:53	22:53	0	0.853	4068353	758760	1978	4945	384	1.06(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:53	22:53	0	0.853	4294026	810998	1708	4270	475		
257.9584	22:53	22:53	0	0.853	4068353	758760	1978	4945	384	1.06(0.88-1.20)	
PCB-21											
255.9613	23:03	23:03	-1	0.858	4283352	524657	1708	4270	307		M
257.9584	23:03	23:03	0	0.859	4036934	505609	1978	4945	256	1.06(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:03	23:03	-1	0.858	4283352	524657	1708	4270	307		M
257.9584	23:03	23:03	0	0.859	4036934	505609	1978	4945	256	1.06(0.88-1.20)	M
PCB-22											
255.9613	23:30	23:30	0	0.876	2293440	501407	1708	4270	294		
257.9584	23:30	23:30	0	0.876	2206231	488922	1978	4945	247	1.04(0.88-1.20)	
PCB-36											
255.9613	25:04	25:04	0	0.934	2442721	510611	1708	4270	299		
257.9584	25:04	25:04	0	0.934	2296154	482242	1978	4945	244	1.06(0.88-1.20)	
PCB-39											
255.9613	25:25	25:25	0	0.947	2174115	454029	1708	4270	266		
257.9584	25:25	25:25	0	0.947	2125000	441012	1978	4945	223	1.02(0.88-1.20)	
PCB-38											
255.9613	25:59	26:00	0	0.968	2205619	475335	1708	4270	278		
257.9584	25:59	26:00	0	0.968	2103746	444608	1978	4945	225	1.05(0.88-1.20)	
PCB-35											
255.9613	26:28	26:27	0	0.986	2113751	423771	1708	4270	248		
257.9584	26:28	26:27	0	0.986	1993546	417344	1978	4945	211	1.06(0.88-1.20)	
PCB-37											
255.9613	26:52	26:52	0	1.001	2177711	425645	1708	4270	249		
257.9584	26:51	26:52	0	1.000	2023723	406257	1978	4945	205	1.08(0.88-1.20)	
PCB-54L											
301.9626	20:08	20:08	0	0.816	920498	227596	85	212	2678		
303.9597	20:08	20:08	0	0.816	1073778	268621	31	77	8665	0.86(0.65-0.89)	
PCB-52L											
301.9626	24:41	24:41	0		2789406	596433	200	500	2982		
303.9597	24:41	24:41	0		3507133	766976	327	817	2345	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:34	33:35	0	1.360	2687967	530869	200	500	2654		
303.9597	33:34	33:35	0	1.360	3367268	655776	327	817	2005	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:08	34:09	0	1.383	2904106	559120	200	500	2796		
303.9597	34:08	34:09	0	1.383	3603348	691593	327	817	2115	0.81(0.65-0.89)	
PCB-54											
289.9224	20:10	20:10	0	1.000	538553	138508	79	197	1753		
291.9194	20:09	20:10	-1	0.999	711336	171855	111	277	1548	0.76(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-50											
289.9224	22:20	22:19	0	1.109	2200771	474942	938	2345	506		
291.9194	22:20	22:19	0	1.109	2799710	620056	1680	4200	369	0.79(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:20	22:19	0	1.109	2200771	474942	938	2345	506		
291.9194	22:20	22:19	0	1.109	2799710	620056	1680	4200	369	0.79(0.65-0.89)	
PCB-45											
289.9224	23:03	23:03	0	1.145	2041132	259407	938	2345	277		M
291.9194	23:03	23:03	0	1.145	2542296	333556	1680	4200	199	0.80(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:03	23:03	0	1.145	2041132	259407	938	2345	277		M
291.9194	23:03	23:03	0	1.145	2542296	333556	1680	4200	199	0.80(0.65-0.89)	M
PCB-46											
289.9224	23:18	23:18	0	1.157	877308	199154	938	2345	212		
291.9194	23:18	23:18	0	1.157	1109803	256931	1680	4200	153	0.79(0.65-0.89)	
PCB-52											
289.9224	24:42	24:42	0	1.227	1225844	278382	938	2345	297		
291.9194	24:42	24:42	0	1.227	1526889	344311	1680	4200	205	0.80(0.65-0.89)	
PCB-43											
289.9224	24:51	24:51	0	1.234	2643190	352083	938	2345	375		M
291.9194	24:51	24:51	0	1.234	3325184	443173	1680	4200	264	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:51	24:51	0	1.234	2643190	352083	938	2345	375		M
291.9194	24:51	24:51	0	1.234	3325184	443173	1680	4200	264	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:08	25:08	0	1.249	2576504	371932	938	2345	397		
291.9194	25:08	25:08	0	1.249	3254123	477553	1680	4200	284	0.79(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:08	25:08	0	1.249	2576504	371932	938	2345	397		
291.9194	25:08	25:08	0	1.249	3254123	477553	1680	4200	284	0.79(0.65-0.89)	
PCB-48											
289.9224	25:28	25:28	0	1.265	1094204	239646	938	2345	255		
291.9194	25:28	25:28	0	1.265	1371058	302607	1680	4200	180	0.80(0.65-0.89)	
PCB-44											
289.9224	25:42	25:43	0	1.277	3680949	663580	938	2345	707		
291.9194	25:42	25:43	0	1.277	4653730	839160	1680	4200	500	0.79(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:42	25:43	0	1.277	3680949	663580	938	2345	707		
291.9194	25:42	25:43	0	1.277	4653730	839160	1680	4200	500	0.79(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:42	25:43	0	1.277	3680949	663580	938	2345	707		
291.9194	25:42	25:43	0	1.277	4653730	839160	1680	4200	500	0.79(0.65-0.89)	
PCB-59											
289.9224	26:01	26:01	0	1.292	4363592	637137	938	2345	679		
291.9194	26:01	26:01	0	1.292	5520059	780561	1680	4200	465	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-62 (C59)											
289.9224	26:01	26:01	0	1.292	4363592	637137	938	2345	679		
291.9194	26:01	26:01	0	1.292	5520059	780561	1680	4200	465	0.79(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:01	26:01	0	1.292	4363592	637137	938	2345	679		
291.9194	26:01	26:01	0	1.292	5520059	780561	1680	4200	465	0.79(0.65-0.89)	
PCB-42											
289.9224	26:13	26:13	0	1.302	1032853	218452	938	2345	233		
291.9194	26:13	26:13	0	1.302	1254097	264308	1680	4200	157	0.82(0.65-0.89)	
PCB-40											
289.9224	26:43	26:43	0	1.327	3341194	518495	938	2345	553		M
291.9194	26:43	26:43	0	1.327	4226612	658787	1680	4200	392	0.79(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:43	26:43	0	1.327	3341194	518495	938	2345	553		M
291.9194	26:43	26:43	0	1.327	4226612	658787	1680	4200	392	0.79(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:43	26:43	0	1.327	3341194	518495	938	2345	553		M
291.9194	26:43	26:43	0	1.327	4226612	658787	1680	4200	392	0.79(0.65-0.89)	M
PCB-64											
289.9224	26:56	26:56	0	1.338	1542294	328593	938	2345	350		
291.9194	26:56	26:56	0	1.338	1897234	406840	1680	4200	242	0.81(0.65-0.89)	
PCB-72											
289.9224	27:46	27:46	0	0.827	1670055	363466	938	2345	387		
291.9194	27:46	27:46	0	0.827	2097115	470546	1680	4200	280	0.80(0.65-0.89)	
PCB-68											
289.9224	28:03	28:03	0	0.835	1581336	310635	938	2345	331		
291.9194	28:03	28:03	0	0.835	2032397	399568	1680	4200	238	0.78(0.65-0.89)	
PCB-57											
289.9224	28:28	28:28	0	0.848	1594835	343854	938	2345	367		
291.9194	28:28	28:28	0	0.848	1983969	424793	1680	4200	253	0.80(0.65-0.89)	
PCB-58											
289.9224	28:43	28:42	0	0.855	1813661	373972	938	2345	399		
291.9194	28:43	28:42	0	0.855	2256378	464517	1680	4200	276	0.80(0.65-0.89)	
PCB-67											
289.9224	28:52	28:52	0	0.860	1881740	364765	938	2345	389		
291.9194	28:52	28:52	0	0.860	2324792	462591	1680	4200	275	0.81(0.65-0.89)	
PCB-63											
289.9224	29:08	29:08	0	0.868	1497138	292054	938	2345	311		
291.9194	29:08	29:08	0	0.868	1895055	368141	1680	4200	219	0.79(0.65-0.89)	
PCB-61											
289.9224	29:29	29:28	0	0.878	6641531	724703	938	2345	773		
291.9194	29:29	29:28	0	0.878	8212419	891283	1680	4200	531	0.81(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:29	29:28	0	0.878	6641531	724703	938	2345	773		
291.9194	29:29	29:28	0	0.878	8212419	891283	1680	4200	531	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-74 (C61)											
289.9224	29:29	29:28	0	0.878	6641531	724703	938	2345	773		
291.9194	29:29	29:28	0	0.878	8212419	891283	1680	4200	531	0.81(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:29	29:28	0	0.878	6641531	724703	938	2345	773		
291.9194	29:29	29:28	0	0.878	8212419	891283	1680	4200	531	0.81(0.65-0.89)	
PCB-66											
289.9224	29:48	29:48	0	0.888	1725924	345298	938	2345	368		
291.9194	29:48	29:48	0	0.888	2211197	434966	1680	4200	259	0.78(0.65-0.89)	
PCB-55											
289.9224	29:57	29:58	0	0.892	1757239	369190	938	2345	394		
291.9194	29:57	29:58	0	0.892	2214034	452840	1680	4200	270	0.79(0.65-0.89)	
PCB-56											
289.9224	30:28	30:28	0	0.907	1663161	343946	938	2345	367		
291.9194	30:28	30:28	0	0.907	2119471	439689	1680	4200	262	0.78(0.65-0.89)	
PCB-60											
289.9224	30:40	30:41	0	0.913	1415769	285430	938	2345	304		
291.9194	30:40	30:41	0	0.913	1819808	361546	1680	4200	215	0.78(0.65-0.89)	
PCB-80											
289.9224	31:05	31:05	0	0.926	1709062	336586	938	2345	359		
291.9194	31:05	31:05	0	0.926	2075738	415394	1680	4200	247	0.82(0.65-0.89)	
PCB-79											
289.9224	32:36	32:36	0	0.971	1971972	363500	938	2345	388		
291.9194	32:37	32:36	0	0.971	2519681	454468	1680	4200	271	0.78(0.65-0.89)	
PCB-78											
289.9224	33:10	33:09	0	0.988	1600577	313455	938	2345	334		
291.9194	33:10	33:09	0	0.988	2186207	402751	1680	4200	240	0.73(0.65-0.89)	
PCB-81											
289.9224	33:36	33:36	0	1.001	1375355	253225	938	2345	270		
291.9194	33:36	33:36	0	1.001	1692061	331511	1680	4200	197	0.81(0.65-0.89)	
PCB-77											
289.9224	34:10	34:10	0	1.001	1460575	293372	938	2345	313		
291.9194	34:10	34:10	0	1.001	1856485	357809	1680	4200	213	0.79(0.65-0.89)	
PCB-104L											
337.9207	25:38	25:37	0	0.813	2630394	563833	136	340	4146		
339.9178	25:37	25:37	0	0.813	1648516	354527	116	290	3056	1.60(1.32-1.78)	
PCB-101L											
337.9207	31:31	31:31	0		2763719	566649	136	340	4167		
339.9178	31:31	31:31	0		1761659	372747	116	290	3213	1.57(1.32-1.78)	
PCB-111L											
337.9207	34:11	34:12	0	1.085	3000076	607426	136	340	4466		
339.9178	34:11	34:12	0	1.085	1884369	382415	116	290	3297	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:08	36:09	0	1.147	3652296	727180	3930	9825	185		
339.9178	36:08	36:09	0	1.147	2352080	459613	1915	4787	240	1.55(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118L											
337.9207	36:28	36:28	0	1.157	3897413	775580	3930	9825	197		
339.9178	36:28	36:28	0	1.157	2383638	479532	1915	4787	250	1.64(1.32-1.78)	
PCB-114L											
337.9207	36:59	37:00	0	1.174	3787583	745233	3930	9825	190		
339.9178	36:59	37:00	0	1.174	2364852	464154	1915	4787	242	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:38	37:39	0	1.194	3710687	700447	3930	9825	178		
339.9178	37:38	37:39	0	1.194	2341356	439766	1915	4787	230	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:06	39:07	0		4655541	875804	3930	9825	223		
339.9178	39:06	39:07	0		2944672	564314	1915	4787	295	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:43	40:44	-1	1.292	3750852	680807	3930	9825	173		
339.9178	40:44	40:44	0	1.292	2386090	436731	1915	4787	228	1.57(1.32-1.78)	
PCB-104											
325.8804	25:38	25:38	0	1.001	1344067	296684	130	325	2282		
327.8775	25:38	25:38	0	1.001	833463	183490	84	210	2184	1.61(1.32-1.78)	
PCB-96											
325.8804	26:01	26:01	0	1.015	1540708	328362	130	325	2526		
327.8775	26:01	26:01	0	1.015	943507	207828	84	210	2474	1.63(1.32-1.78)	
PCB-103											
325.8804	27:57	27:56	0	1.090	1126178	243498	130	325	1873		
327.8775	27:57	27:56	0	1.090	703948	153015	84	210	1822	1.60(1.32-1.78)	
PCB-94											
325.8804	28:10	28:10	0	1.099	954357	201624	130	325	1551		
327.8775	28:10	28:10	0	1.099	593930	121587	84	210	1447	1.61(1.32-1.78)	
PCB-95											
325.8804	28:36	28:36	0	1.116	1077617	234907	130	325	1807		
327.8775	28:36	28:36	0	1.116	651165	130945	84	210	1559	1.65(1.32-1.78)	
PCB-93											
325.8804	28:50	28:49	0	1.125	2057255	412593	130	325	3174		
327.8775	28:50	28:49	0	1.125	1292382	253568	84	210	3019	1.59(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:50	28:49	0	1.125	2057255	412593	130	325	3174		
327.8775	28:50	28:49	0	1.125	1292382	253568	84	210	3019	1.59(1.32-1.78)	
PCB-98											
325.8804	28:59	28:59	0	1.131	2505448	309343	130	325	2380		M
327.8775	28:59	28:59	0	1.131	1575882	189793	84	210	2259	1.59(1.32-1.78)	M
PCB-102 (C98)											
325.8804	28:59	28:59	0	1.131	2505448	309343	130	325	2380		M
327.8775	28:59	28:59	0	1.131	1575882	189793	84	210	2259	1.59(1.32-1.78)	M
PCB-88											
325.8804	29:28	29:28	0	1.150	2066349	229554	130	325	1766		
327.8775	29:28	29:28	0	1.150	1322747	147655	84	210	1758	1.56(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-91 (C88)											
325.8804	29:28	29:28	0	1.150	2066349	229554	130	325	1766		
327.8775	29:28	29:28	0	1.150	1322747	147655	84	210	1758	1.56(1.32-1.78)	
PCB-84											
325.8804	29:42	29:41	0	1.159	946321	185870	130	325	1430		
327.8775	29:42	29:41	0	1.159	598934	121943	84	210	1452	1.58(1.32-1.78)	
PCB-89											
325.8804	30:10	30:10	0	1.177	1170584	240560	130	325	1850		
327.8775	30:10	30:10	0	1.177	728913	144787	84	210	1724	1.61(1.32-1.78)	
PCB-121											
325.8804	30:35	30:34	0	1.193	1651249	337081	130	325	2593		
327.8775	30:35	30:34	0	1.193	1053927	217959	84	210	2595	1.57(1.32-1.78)	
PCB-92											
325.8804	30:58	30:57	0	0.857	1059749	210341	130	325	1618		
327.8775	30:58	30:57	0	0.857	668494	137442	84	210	1636	1.59(1.32-1.78)	
PCB-90											
325.8804	31:31	31:31	0	1.230	3798294	546869	130	325	4207		
327.8775	31:31	31:31	0	1.230	2358818	344886	84	210	4106	1.61(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:31	31:31	0	1.230	3798294	546869	130	325	4207		
327.8775	31:31	31:31	0	1.230	2358818	344886	84	210	4106	1.61(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:31	31:31	0	1.230	3798294	546869	130	325	4207		
327.8775	31:31	31:31	0	1.230	2358818	344886	84	210	4106	1.61(1.32-1.78)	
PCB-83											
325.8804	32:07	32:06	0	1.253	2326271	280072	130	325	2154		
327.8775	32:07	32:06	0	1.253	1459409	174711	84	210	2080	1.59(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:07	32:06	0	1.253	2326271	280072	130	325	2154		
327.8775	32:07	32:06	0	1.253	1459409	174711	84	210	2080	1.59(1.32-1.78)	
PCB-112											
325.8804	32:14	32:13	0	1.258	1852044	358980	130	325	2761		
327.8775	32:14	32:13	0	1.258	1174462	232022	84	210	2762	1.58(1.32-1.78)	
PCB-86											
325.8804	32:36	32:36	0	1.272	8215033	852937	130	325	6561		M
327.8775	32:36	32:36	0	1.272	5213284	536816	84	210	6391	1.58(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:36	32:36	0	1.272	8215033	852937	130	325	6561		M
327.8775	32:36	32:36	0	1.272	5213284	536816	84	210	6391	1.58(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:36	32:36	0	1.272	8215033	852937	130	325	6561		M
327.8775	32:36	32:36	0	1.272	5213284	536816	84	210	6391	1.58(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:36	32:36	0	1.272	8215033	852937	130	325	6561		M
327.8775	32:36	32:36	0	1.272	5213284	536816	84	210	6391	1.58(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-119 (C86)											M
325.8804	32:36	32:36	0	1.272	8215033	852937	130	325	6561		M
327.8775	32:36	32:36	0	1.272	5213284	536816	84	210	6391	1.58(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:36	32:36	0	1.272	8215033	852937	130	325	6561		M
327.8775	32:36	32:36	0	1.272	5213284	536816	84	210	6391	1.58(1.32-1.78)	M
PCB-85											
325.8804	33:20	33:19	0	1.301	4025208	486846	130	325	3745		
327.8775	33:19	33:19	0	1.300	2542606	307928	84	210	3666	1.58(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:20	33:19	0	1.301	4025208	486846	130	325	3745		
327.8775	33:19	33:19	0	1.300	2542606	307928	84	210	3666	1.58(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:20	33:19	0	1.301	4025208	486846	130	325	3745		
327.8775	33:19	33:19	0	1.300	2542606	307928	84	210	3666	1.58(1.32-1.78)	
PCB-110											
325.8804	33:31	33:32	0	1.308	3549264	429563	130	325	3304		
327.8775	33:32	33:32	0	1.309	2241183	277719	84	210	3306	1.58(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:31	33:32	0	1.308	3549264	429563	130	325	3304		
327.8775	33:32	33:32	0	1.309	2241183	277719	84	210	3306	1.58(1.32-1.78)	
PCB-82											
325.8804	33:49	33:49	0	1.320	1193309	232012	130	325	1785		
327.8775	33:49	33:49	0	1.320	755625	141123	84	210	1680	1.58(1.32-1.78)	
PCB-111											
325.8804	34:13	34:13	0	1.335	1575224	309649	130	325	2382		
327.8775	34:13	34:13	0	1.335	992148	200722	84	210	2390	1.59(1.32-1.78)	
PCB-120											
325.8804	34:40	34:41	0	1.353	1975104	386740	130	325	2975		
327.8775	34:40	34:41	0	1.353	1274509	235643	84	210	2805	1.55(1.32-1.78)	
PCB-108											
325.8804	35:48	35:49	0	1.397	4265466	825924	1990	4975	415		
327.8775	35:48	35:49	0	1.397	2758019	518688	1761	4402	295	1.55(1.32-1.78)	
PCB-124 (C108)											
325.8804	35:48	35:49	0	1.397	4265466	825924	1990	4975	415		
327.8775	35:48	35:49	0	1.397	2758019	518688	1761	4402	295	1.55(1.32-1.78)	
PCB-107											
325.8804	36:03	36:03	0	1.407	2394518	439280	1990	4975	221		
327.8775	36:03	36:03	0	1.407	1499945	266912	1761	4402	152	1.60(1.32-1.78)	
PCB-123											
325.8804	36:10	36:10	0	1.001	1875827	388231	1990	4975	195		
327.8775	36:10	36:10	0	1.001	1178345	246831	1761	4402	140	1.59(1.32-1.78)	
PCB-106											
325.8804	36:17	36:17	0	1.004	2284945	435242	1990	4975	219		
327.8775	36:17	36:17	0	1.004	1433293	272700	1761	4402	155	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118											
325.8804	36:29	36:30	0	1.001	2155296	401780	1990	4975	202		
327.8775	36:29	36:30	0	1.001	1364560	256616	1761	4402	146	1.58(1.32-1.78)	
PCB-122											
325.8804	36:50	36:50	0	1.010	1774210	339765	1990	4975	171		
327.8775	36:50	36:50	0	1.010	1130148	220477	1761	4402	125	1.57(1.32-1.78)	
PCB-114											
325.8804	37:01	37:01	0	1.001	2074752	380486	1990	4975	191		
327.8775	37:01	37:01	0	1.001	1328455	244183	1761	4402	139	1.56(1.32-1.78)	
PCB-105											
325.8804	37:40	37:40	0	1.001	2006723	366642	1990	4975	184		
327.8775	37:40	37:40	0	1.001	1370232	233396	1761	4402	133	1.46(1.32-1.78)	
PCB-127											
325.8804	39:08	39:09	0	1.040	2325005	428641	1990	4975	215		
327.8775	39:08	39:09	0	1.040	1487100	267679	1761	4402	152	1.56(1.32-1.78)	
PCB-126											
325.8804	40:44	40:45	0	1.001	2392314	398550	1990	4975	200		
327.8775	40:44	40:45	0	1.001	1495884	248219	1761	4402	141	1.60(1.32-1.78)	
PCB-155L											
371.8817	31:17	31:17	0	0.790	2252688	456366	87	217	5246		
373.8788	31:17	31:17	0	0.790	1756504	356067	106	265	3359	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:35	39:35	0		3021986	590905	1962	4905	301		
373.8788	39:35	39:35	0		2395710	467192	1273	3182	367	1.26(1.05-1.43)	
PCB-167L											
371.8817	42:35	42:35	0	1.076	3153973	592806	1962	4905	302		
373.8788	42:35	42:35	0	1.076	2511919	471794	1273	3182	371	1.26(1.05-1.43)	
PCB-156L											
371.8817	43:44	43:44	0	1.105	6247743	820008	1962	4905	418		
373.8788	43:43	43:44	-1	1.105	4860775	634711	1273	3182	499	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:44	43:44	0	1.105	6247743	820008	1962	4905	418		
373.8788	43:43	43:44	-1	1.105	4860775	634711	1273	3182	499	1.29(1.05-1.43)	
PCB-169L											
371.8817	46:58	46:58	0	1.186	3199290	593089	1962	4905	302		
373.8788	46:58	46:58	0	1.186	2502803	456772	1273	3182	359	1.28(1.05-1.43)	
PCB-155											
359.8415	31:18	31:18	0	1.000	1044011	211480	99	247	2136		
361.8385	31:18	31:18	0	1.001	795080	160456	91	227	1763	1.31(1.05-1.43)	
PCB-152											
359.8415	31:30	31:30	0	1.007	1283098	261724	99	247	2644		
361.8385	31:30	31:30	0	1.007	1008859	201605	91	227	2215	1.27(1.05-1.43)	
PCB-150											
359.8415	31:40	31:40	0	1.012	1115886	231520	99	247	2339		
361.8385	31:40	31:40	0	1.012	864715	177117	91	227	1946	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-136											
359.8415	32:01	32:02	0	1.024	1073380	214733	99	247	2169		
361.8385	32:01	32:02	0	1.024	811919	161012	91	227	1769	1.32(1.05-1.43)	
PCB-145											
359.8415	32:19	32:20	0	1.033	1203756	232920	99	247	2353		
361.8385	32:19	32:20	0	1.033	983384	190905	91	227	2098	1.22(1.05-1.43)	
PCB-148											
359.8415	33:50	33:50	0	1.082	843093	167637	99	247	1693		
361.8385	33:50	33:50	0	1.082	658622	134895	91	227	1482	1.28(1.05-1.43)	
PCB-135											
359.8415	34:29	34:29	3	1.102	1742443	193573	99	247	1955		M
361.8385	34:29	34:29	3	1.102	1315274	153011	91	227	1681	1.32(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:29	34:29	3	1.102	1742443	193573	99	247	1955		M
361.8385	34:29	34:29	3	1.102	1315274	153011	91	227	1681	1.32(1.05-1.43)	M
PCB-154											
359.8415	34:41	34:41	0	1.109	923414	180470	99	247	1823		
361.8385	34:41	34:41	0	1.109	733964	143028	91	227	1572	1.26(1.05-1.43)	
PCB-144											
359.8415	35:00	34:59	0	1.119	836318	163361	99	247	1650		
361.8385	35:00	34:59	0	1.119	642053	127000	91	227	1396	1.30(1.05-1.43)	
PCB-147											
359.8415	35:20	35:20	0	1.130	2848144	548393	935	2337	587		M
361.8385	35:20	35:20	0	1.130	2208008	432601	539	1347	803	1.29(1.05-1.43)	M
PCB-149 (C147)											
359.8415	35:20	35:20	0	1.130	2848144	548393	935	2337	587		M
361.8385	35:20	35:20	0	1.130	2208008	432601	539	1347	803	1.29(1.05-1.43)	M
PCB-134											
359.8415	35:39	35:39	0	1.140	2212932	240220	935	2337	257		
361.8385	35:39	35:39	0	1.140	1776712	193789	539	1347	360	1.25(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:39	35:39	0	1.140	2212932	240220	935	2337	257		
361.8385	35:39	35:39	0	1.140	1776712	193789	539	1347	360	1.25(1.05-1.43)	
PCB-139											
359.8415	35:56	35:57	0	1.149	2695004	475659	935	2337	509		
361.8385	35:57	35:57	0	1.149	2124537	387150	539	1347	718	1.27(1.05-1.43)	
PCB-140 (C139)											
359.8415	35:56	35:57	0	1.149	2695004	475659	935	2337	509		
361.8385	35:57	35:57	0	1.149	2124537	387150	539	1347	718	1.27(1.05-1.43)	
PCB-131											
359.8415	36:09	36:09	0	1.156	1124158	228950	935	2337	245		
361.8385	36:09	36:09	0	1.156	876393	171325	539	1347	318	1.28(1.05-1.43)	
PCB-142											
359.8415	36:18	36:18	0	1.160	1107345	214656	935	2337	230		
361.8385	36:17	36:18	-1	1.160	883007	163399	539	1347	303	1.25(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-132											
359.8415	36:37	36:37	0	1.170	1189022	237414	935	2337	254		
361.8385	36:37	36:37	0	1.170	922751	180982	539	1347	336	1.29(1.05-1.43)	
PCB-133											
359.8415	37:07	37:07	0	1.187	1268466	238452	935	2337	255		
361.8385	37:07	37:07	0	1.187	993320	182113	539	1347	338	1.28(1.05-1.43)	
PCB-165											
359.8415	37:30	37:31	0	0.881	1505531	297370	935	2337	318		
361.8385	37:30	37:31	0	0.881	1177809	220371	539	1347	409	1.28(1.05-1.43)	
PCB-146											
359.8415	37:45	37:46	0	0.887	1502678	290242	935	2337	310		
361.8385	37:45	37:46	0	0.887	1185757	224378	539	1347	416	1.27(1.05-1.43)	
PCB-161											
359.8415	37:53	37:54	0	0.890	1854589	362872	935	2337	388		
361.8385	37:53	37:54	0	0.890	1450596	282737	539	1347	525	1.28(1.05-1.43)	
PCB-153											
359.8415	38:23	38:24	0	0.901	3248560	472697	935	2337	506		
361.8385	38:23	38:24	0	0.901	2584155	379940	539	1347	705	1.26(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:23	38:24	0	0.901	3248560	472697	935	2337	506		
361.8385	38:23	38:24	0	0.901	2584155	379940	539	1347	705	1.26(1.05-1.43)	
PCB-141											
359.8415	38:33	38:34	0	0.905	1314943	242332	935	2337	259		
361.8385	38:34	38:34	0	0.906	1037509	181138	539	1347	336	1.27(1.05-1.43)	
PCB-130											
359.8415	38:59	38:58	0	0.915	1031578	199985	935	2337	214		
361.8385	38:59	38:58	0	0.915	822450	160717	539	1347	298	1.25(1.05-1.43)	
PCB-137											
359.8415	39:11	39:12	0	0.920	1282364	234416	935	2337	251		
361.8385	39:11	39:12	0	0.920	938350	194006	539	1347	360	1.37(1.05-1.43)	
PCB-164											
359.8415	39:19	39:19	0	0.923	1732322	333983	935	2337	357		
361.8385	39:19	39:19	0	0.923	1430609	269331	539	1347	500	1.21(1.05-1.43)	
PCB-129											
359.8415	39:37	39:37	0	0.931	5630481	655315	935	2337	701		M
361.8385	39:37	39:37	0	0.931	4431671	507046	539	1347	941	1.27(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:37	39:37	0	0.931	5630481	655315	935	2337	701		M
361.8385	39:37	39:37	0	0.931	4431671	507046	539	1347	941	1.27(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:37	39:37	0	0.931	5630481	655315	935	2337	701		M
361.8385	39:37	39:37	0	0.931	4431671	507046	539	1347	941	1.27(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:37	39:37	0	0.931	5630481	655315	935	2337	701		M
361.8385	39:37	39:37	0	0.931	4431671	507046	539	1347	941	1.27(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-158											
359.8415	39:59	40:00	0	0.939	1820787	330442	935	2337	353		
361.8385	39:59	40:00	0	0.939	1504144	267677	539	1347	497	1.21(1.05-1.43)	
PCB-128											
359.8415	40:50	40:51	-1	0.959	3178474	455716	935	2337	487		
361.8385	40:50	40:51	-1	0.959	2532120	373689	539	1347	693	1.26(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:50	40:51	-1	0.959	3178474	455716	935	2337	487		
361.8385	40:50	40:51	-1	0.959	2532120	373689	539	1347	693	1.26(1.05-1.43)	
PCB-159											
359.8415	41:51	41:51	0	0.983	2065018	385372	935	2337	412		
361.8385	41:51	41:51	0	0.983	1641044	310384	539	1347	576	1.26(1.05-1.43)	
PCB-162											
359.8415	42:08	42:08	-1	0.989	1846967	334961	935	2337	358		
361.8385	42:08	42:08	-1	0.989	1489809	268313	539	1347	498	1.24(1.05-1.43)	
PCB-167											
359.8415	42:36	42:37	0	1.001	1760711	333546	935	2337	357		
361.8385	42:36	42:37	0	1.001	1432974	259916	539	1347	482	1.23(1.05-1.43)	
PCB-156											
359.8415	43:46	43:46	-1	1.001	3274482	429615	935	2337	459		
361.8385	43:46	43:46	-1	1.001	2623419	348020	539	1347	646	1.25(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:46	43:46	-1	1.001	3274482	429615	935	2337	459		
361.8385	43:46	43:46	-1	1.001	2623419	348020	539	1347	646	1.25(1.05-1.43)	
PCB-169											
359.8415	46:59	46:59	0	1.001	2037151	349609	935	2337	374		
361.8385	46:59	46:59	0	1.001	1576965	270120	539	1347	501	1.29(1.05-1.43)	
PCB-188L											
405.8428	36:59	37:00	0	0.820	2359530	462509	156	390	2965		
407.8398	36:59	37:00	0	0.820	2220821	428968	18	45	23832	1.06(0.89-1.21)	
PCB-178L											
405.8428	40:03	40:03	0	0.887	1935573	365667	156	390	2344		
407.8398	40:03	40:03	0	0.887	1781937	343685	18	45	19094	1.09(0.89-1.21)	
PCB-180L											
405.8428	45:08	45:08	0		2245413	419206	156	390	2687		
407.8398	45:08	45:08	0		2103556	395533	18	45	21974	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:23	46:23	0	1.028	1641930	316823	156	390	2031		
407.8398	46:23	46:23	0	1.028	1497666	279677	18	45	15538	1.10(0.89-1.21)	
PCB-189L											
405.8428	49:29	49:29	0	1.096	3508039	641568	578	1445	1110		
407.8398	49:29	49:29	0	1.096	3335054	623434	478	1195	1304	1.05(0.89-1.21)	
PCB-188											
393.8025	37:01	37:01	0	1.001	1274928	257112	87	217	2955		
395.7995	37:01	37:01	0	1.001	1238315	237986	57	142	4175	1.03(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-179											
393.8025	37:22	37:22	0	1.010	1435121	272758	87	217	3135		
395.7995	37:22	37:22	0	1.010	1353871	257876	57	142	4524	1.06(0.89-1.21)	
PCB-184											
393.8025	37:53	37:53	0	1.024	1321145	251463	87	217	2890		
395.7995	37:52	37:53	0	1.024	1228023	236208	57	142	4144	1.08(0.89-1.21)	
PCB-176											
393.8025	38:14	38:14	0	1.034	1267466	246273	87	217	2831		
395.7995	38:14	38:14	0	1.034	1169956	227180	57	142	3986	1.08(0.89-1.21)	
PCB-186											
393.8025	38:41	38:42	0	1.046	1489203	285077	87	217	3277		
395.7995	38:41	38:42	0	1.046	1404258	271163	57	142	4757	1.06(0.89-1.21)	
PCB-178											
393.8025	40:04	40:05	0	1.083	953362	188382	87	217	2165		
395.7995	40:04	40:05	0	1.083	862520	157147	57	142	2757	1.11(0.89-1.21)	
PCB-175											
393.8025	40:42	40:42	0	1.100	930296	170563	87	217	1960		
395.7995	40:42	40:42	0	1.100	871756	169989	57	142	2982	1.07(0.89-1.21)	
PCB-187											
393.8025	40:59	40:58	0	1.108	1131173	224168	87	217	2577		
395.7995	40:59	40:58	0	1.108	1085681	205125	57	142	3599	1.04(0.89-1.21)	
PCB-182											
393.8025	41:10	41:11	0	1.113	1099891	203360	87	217	2337		
395.7995	41:10	41:11	0	1.113	1089245	203581	57	142	3572	1.01(0.89-1.21)	
PCB-183											
393.8025	41:35	41:35	0	1.124	1945814	199751	87	217	2296		M
395.7995	41:35	41:35	0	1.124	1833485	191826	57	142	3365	1.06(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:35	41:35	0	1.124	1945814	199751	87	217	2296		M
395.7995	41:35	41:35	0	1.124	1833485	191826	57	142	3365	1.06(0.89-1.21)	M
PCB-174											
393.8025	41:50	41:49	0	1.131	1044511	194477	87	217	2235		
395.7995	41:49	41:49	0	1.131	986433	183436	57	142	3218	1.06(0.89-1.21)	
PCB-177											
393.8025	42:15	42:16	0	1.142	1009363	187890	87	217	2160		
395.7995	42:15	42:16	0	1.142	937425	176887	57	142	3103	1.08(0.89-1.21)	
PCB-181											
393.8025	42:38	42:38	-1	1.153	1040574	194087	87	217	2231		
395.7995	42:39	42:38	0	1.153	1022978	192547	57	142	3378	1.02(0.89-1.21)	
PCB-171											
393.8025	42:52	42:52	0	1.159	1849943	305093	87	217	3507		
395.7995	42:52	42:52	0	1.159	1789153	295754	57	142	5189	1.03(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:52	42:52	0	1.159	1849943	305093	87	217	3507		
395.7995	42:52	42:52	0	1.159	1789153	295754	57	142	5189	1.03(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-172											
393.8025	44:30	44:31	-1	0.899	938866	173651	87	217	1996		
395.7995	44:30	44:31	-1	0.899	913859	169886	57	142	2980	1.03(0.89-1.21)	
PCB-192											
393.8025	44:47	44:46	0	0.905	1388025	267999	87	217	3080		
395.7995	44:47	44:46	0	0.905	1312857	242257	57	142	4250	1.06(0.89-1.21)	
PCB-180											
393.8025	45:07	45:07	0	0.912	2350262	307253	87	217	3532		
395.7995	45:07	45:07	0	0.912	2278538	297512	57	142	5220	1.03(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:07	45:07	0	0.912	2350262	307253	87	217	3532		
395.7995	45:07	45:07	0	0.912	2278538	297512	57	142	5220	1.03(0.89-1.21)	
PCB-191											
393.8025	45:30	45:30	-1	0.919	1275702	234909	87	217	2700		
395.7995	45:30	45:30	-1	0.919	1194505	223603	57	142	3923	1.07(0.89-1.21)	
PCB-170											
393.8025	46:24	46:24	0	0.938	926024	174416	87	217	2005		
395.7995	46:24	46:24	0	0.938	845552	149250	57	142	2618	1.10(0.89-1.21)	
PCB-190											
393.8025	46:55	46:56	0	0.948	1298989	247948	87	217	2850		
395.7995	46:55	46:56	0	0.948	1177222	224751	57	142	3943	1.10(0.89-1.21)	
PCB-189											
393.8025	49:31	49:30	0	1.001	1746299	316578	699	1747	453		
395.7995	49:31	49:30	0	1.001	1686977	299468	336	840	891	1.04(0.89-1.21)	
PCB-202L											
439.8038	42:21	42:21	0	0.821	1692881	327114	58	145	5640		
441.8008	42:21	42:21	0	0.821	1900406	355830	31	77	11478	0.89(0.76-1.02)	
PCB-194L											
439.8038	51:36	51:36	0		2719396	493960	230	575	2148		
441.8008	51:36	51:36	0		2991668	538648	147	367	3664	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:04	52:04	0	1.009	2782185	501837	230	575	2182		
441.8008	52:04	52:04	0	1.009	3137686	558601	147	367	3800	0.89(0.76-1.02)	
PCB-202											
427.7635	42:23	42:23	0	1.001	903282	172016	60	150	2867		
429.7606	42:23	42:23	0	1.001	1015954	194247	97	242	2003	0.89(0.76-1.02)	
PCB-201											
427.7635	43:18	43:18	0	1.022	851933	159738	60	150	2662		
429.7606	43:18	43:18	0	1.022	943212	176131	97	242	1816	0.90(0.76-1.02)	
PCB-204											
427.7635	43:58	43:58	-1	1.038	969713	182316	60	150	3039		
429.7606	43:58	43:58	-1	1.038	1088147	208939	97	242	2154	0.89(0.76-1.02)	
PCB-197											
427.7635	44:12	44:12	0	1.043	933318	175909	60	150	2932		
429.7606	44:12	44:12	0	1.043	1081255	199324	97	242	2055	0.86(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-200											
427.7635	44:18	44:19	-1	1.046	899260	171510	60	150	2859		
429.7606	44:18	44:19	-1	1.046	987094	183885	97	242	1896	0.91(0.76-1.02)	
PCB-198											
427.7635	47:05	47:05	0	1.111	1560414	194041	60	150	3234		
429.7606	47:05	47:05	0	1.112	1725421	212740	97	242	2193	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:05	47:05	0	1.111	1560414	194041	60	150	3234		
429.7606	47:05	47:05	0	1.112	1725421	212740	97	242	2193	0.90(0.76-1.02)	
PCB-196											
427.7635	47:46	47:45	0	0.917	710427	133603	60	150	2227		
429.7606	47:46	47:45	0	0.917	795940	144109	97	242	1486	0.89(0.76-1.02)	
PCB-203											
427.7635	47:58	47:57	0	0.921	884064	159848	60	150	2664		
429.7606	47:57	47:57	0	0.921	970513	174955	97	242	1804	0.91(0.76-1.02)	
PCB-195											
427.7635	49:16	49:17	-1	0.946	1183404	209969	381	952	551		
429.7606	49:16	49:17	-1	0.946	1324555	249909	1316	3290	190	0.89(0.76-1.02)	
PCB-194											
427.7635	51:37	51:37	0	0.991	1344968	248664	381	952	653		
429.7606	51:37	51:37	0	0.991	1528655	282570	1316	3290	215	0.88(0.76-1.02)	
PCB-205											
427.7635	52:05	52:05	0	1.000	1590880	286047	381	952	751		
429.7606	52:05	52:05	0	1.000	1750928	319629	1316	3290	243	0.91(0.76-1.02)	
PCB-208L											
473.7648	49:01	49:01	-1	0.950	2264653	417573	844	2110	495		
475.7619	49:01	49:01	-1	0.950	2873395	523278	643	1607	814	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:49	53:49	-1	1.043	1708365	311227	844	2110	369		
475.7619	53:49	53:49	-1	1.043	2122223	380455	643	1607	592	0.80(0.65-0.89)	
PCB-208											
461.7246	49:03	49:02	1	1.001	1194777	222984	359	897	621		
463.7216	49:02	49:02	0	1.001	1490727	279592	766	1915	365	0.80(0.65-0.89)	
PCB-207											
461.7246	49:58	49:58	0	1.020	1180425	219838	359	897	612		
463.7216	49:58	49:58	0	1.020	1545189	279924	766	1915	365	0.76(0.65-0.89)	
PCB-206											
461.7246	53:50	53:50	0	1.000	1046035	197993	359	897	552		
463.7216	53:50	53:50	0	1.000	1307782	239026	766	1915	312	0.80(0.65-0.89)	
PCB-209L											
507.7258	55:26	55:26	0	1.074	1633914	287560	84	210	3423		
509.7229	55:26	55:26	0	1.074	2307648	400694	96	240	4174	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:28	55:28	0	1.000	820119	140912	67	167	2103		
497.6826	55:27	55:28	-1	1.000	1149117	203458	34	85	5984	0.71(0.59-0.79)	

QC Flag Legend

Processing Flags

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Injection Vol: 1.0 ul

Operator ID: Xcalibur System

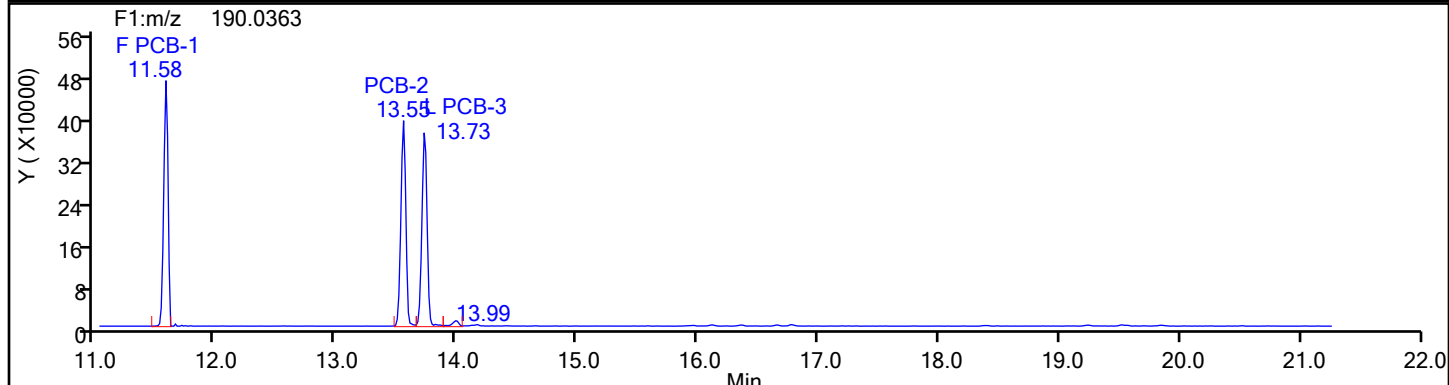
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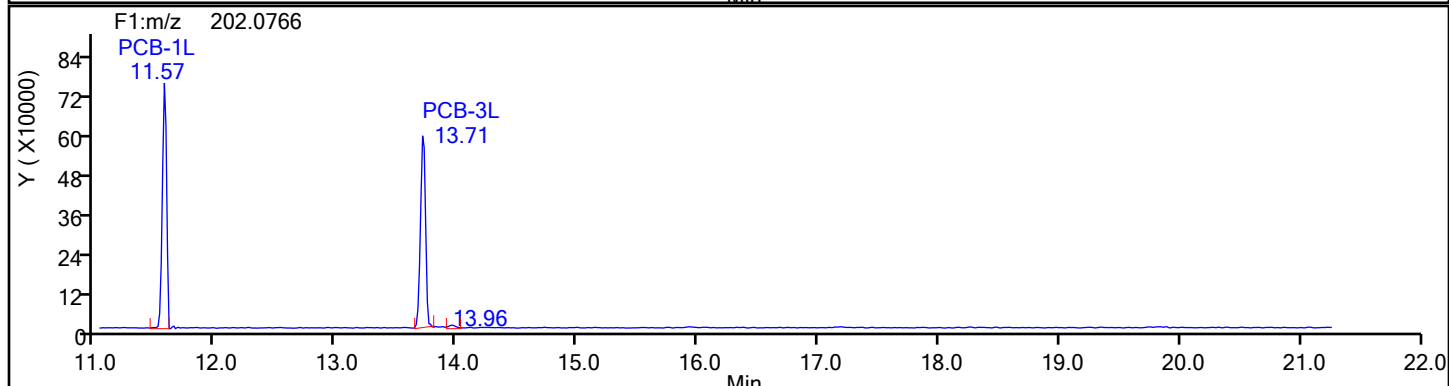
Sample Line#: 2

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\cs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

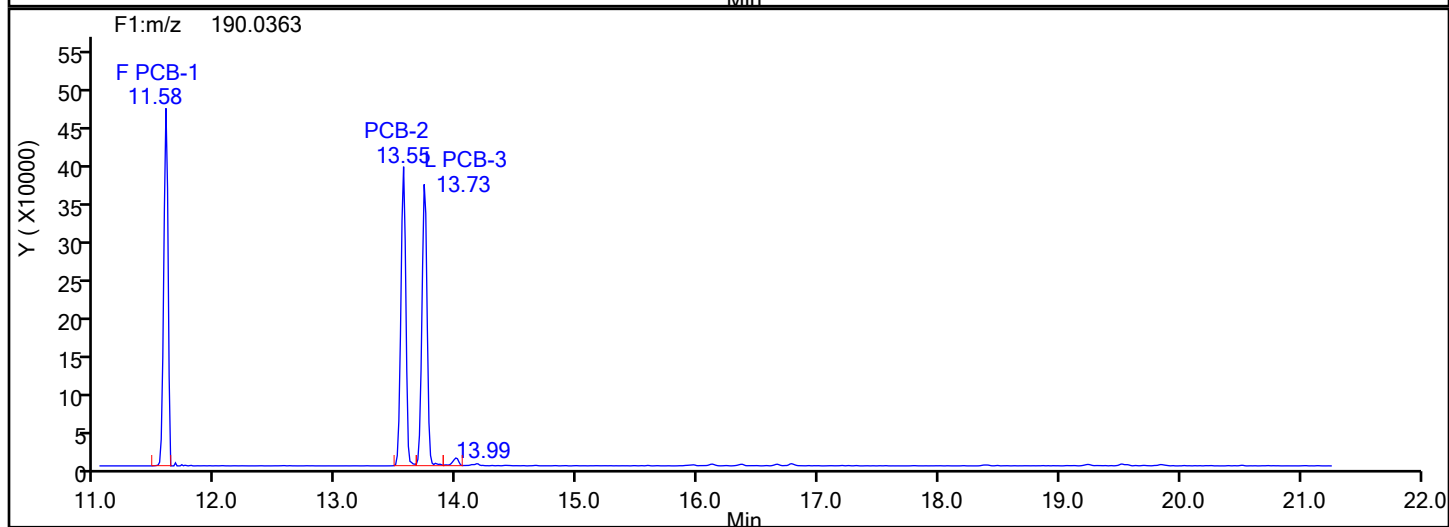
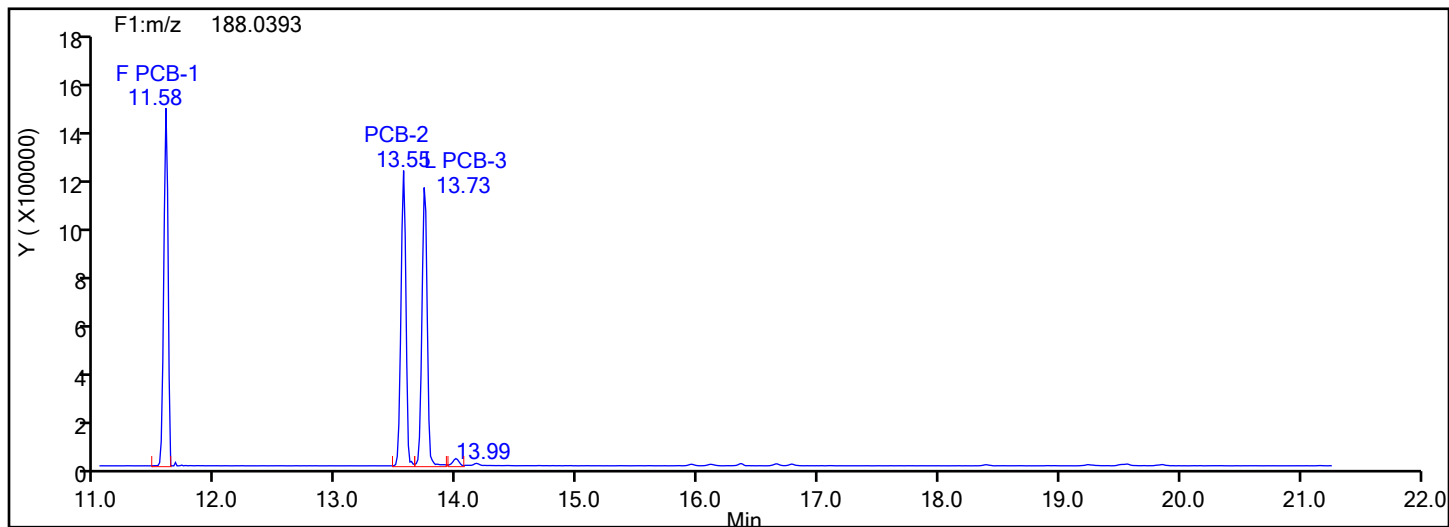
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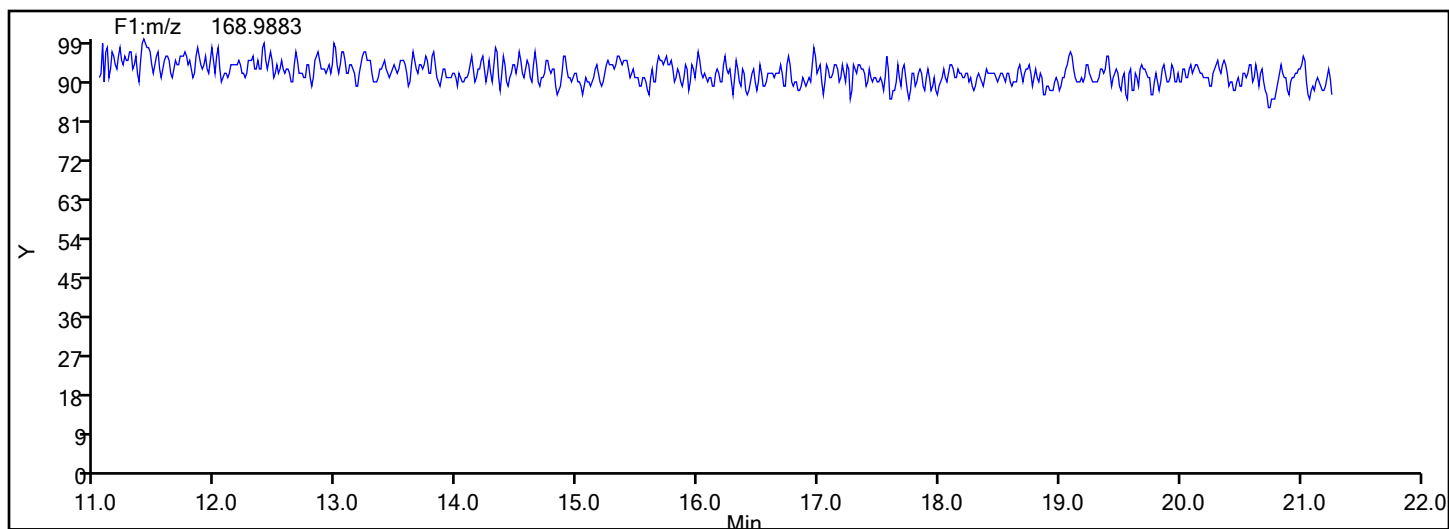
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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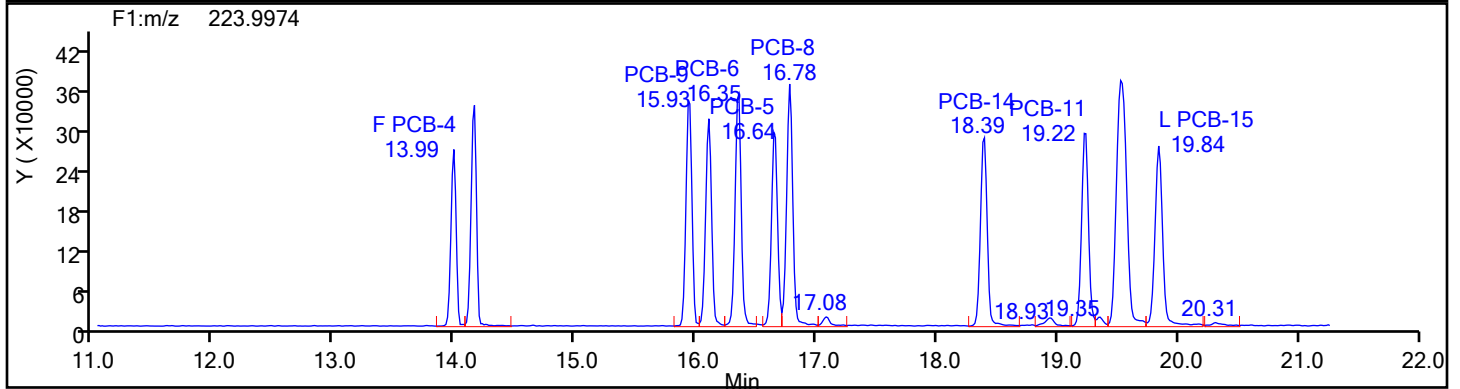
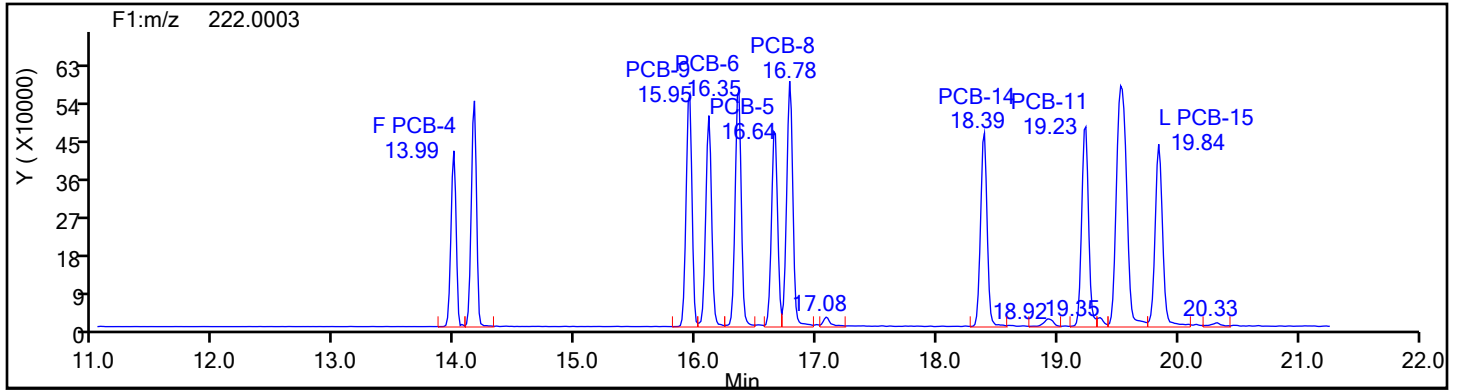
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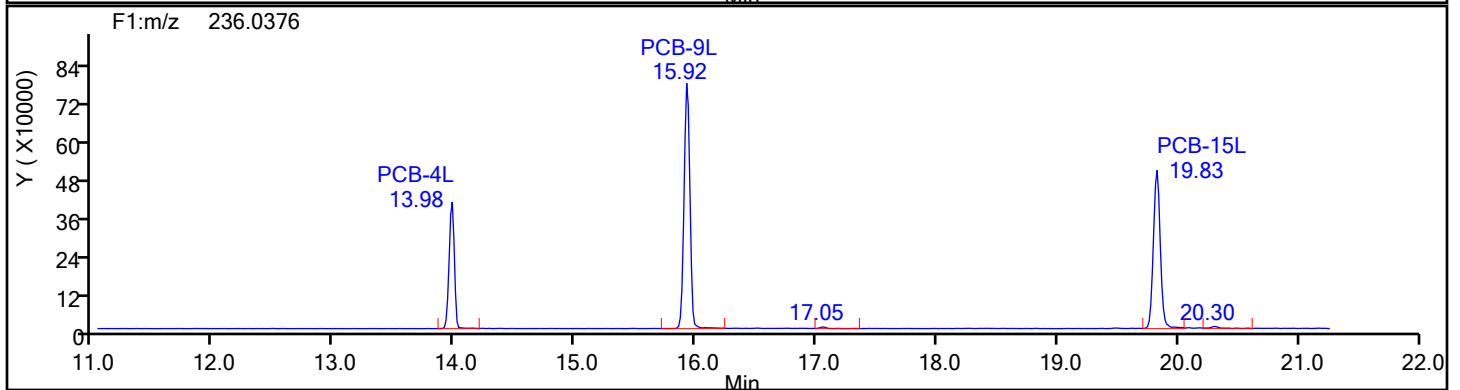
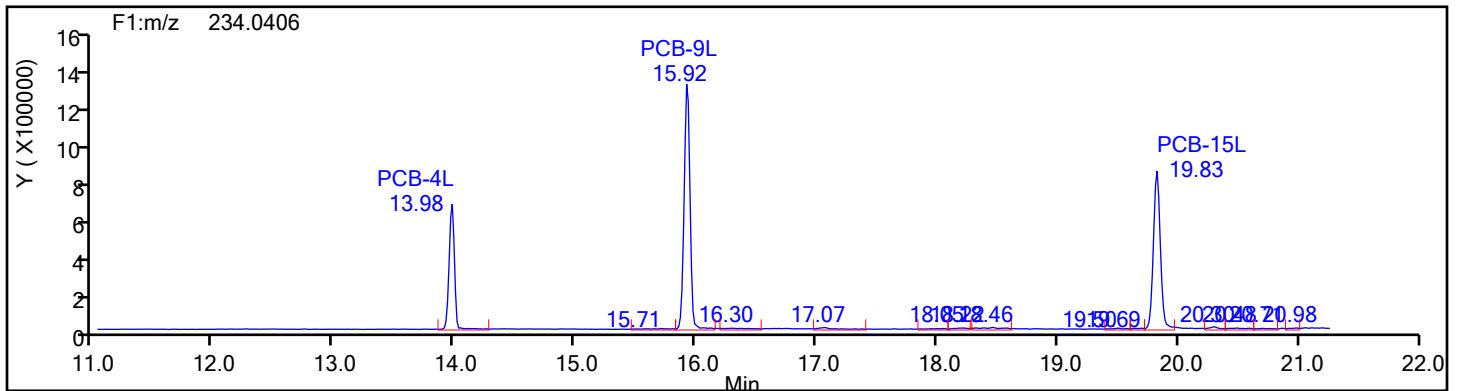
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

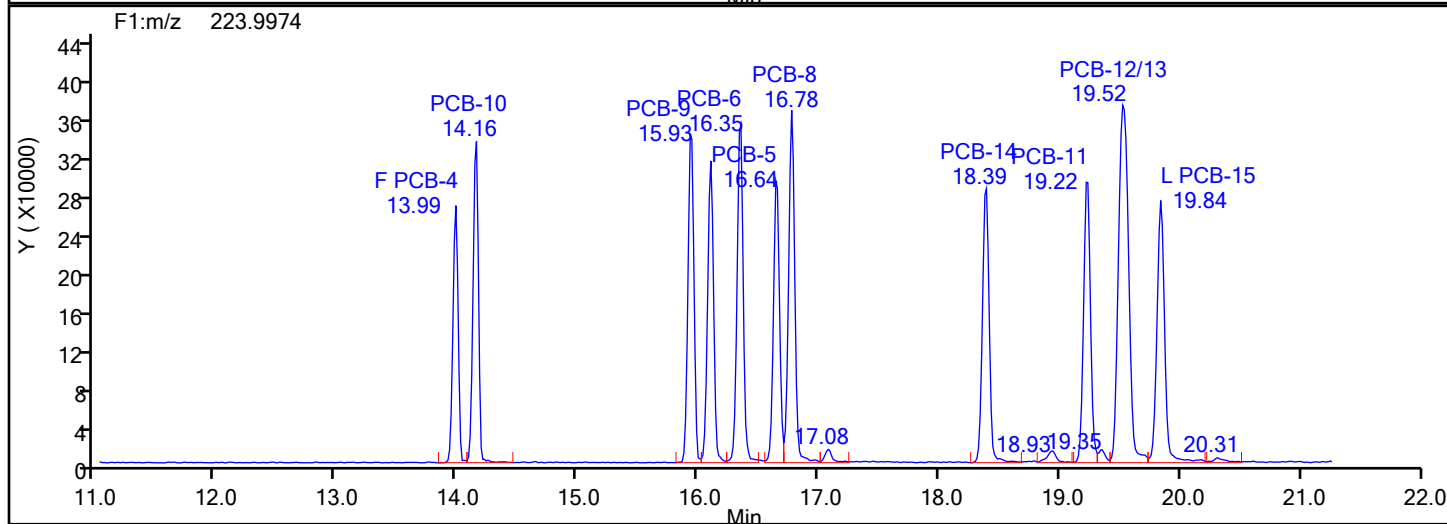
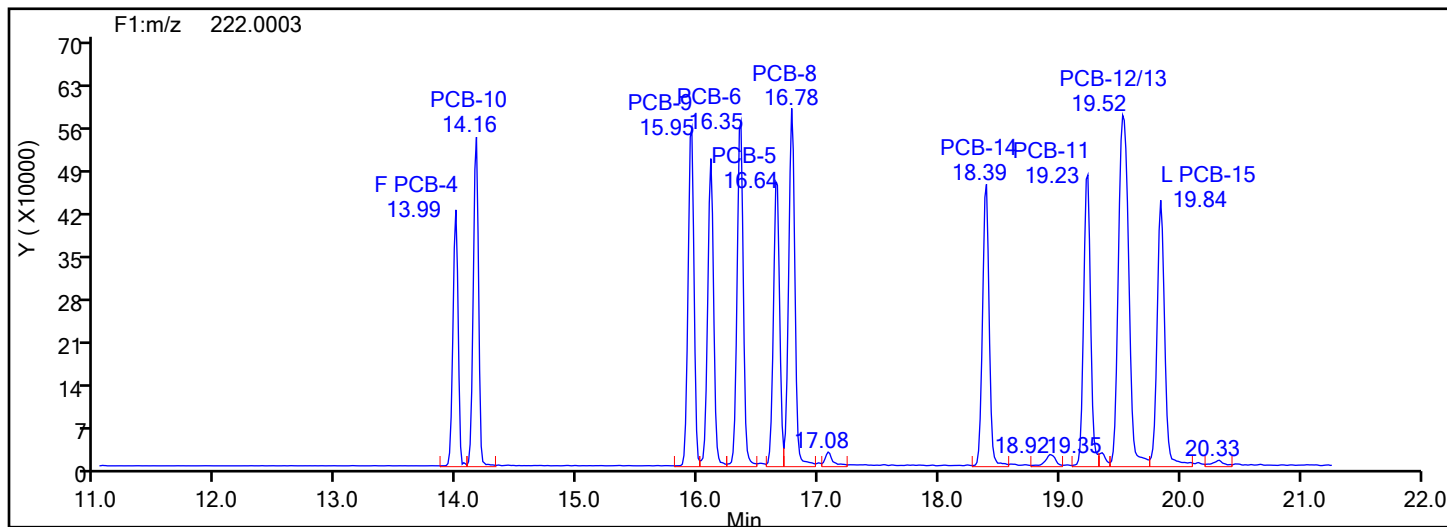
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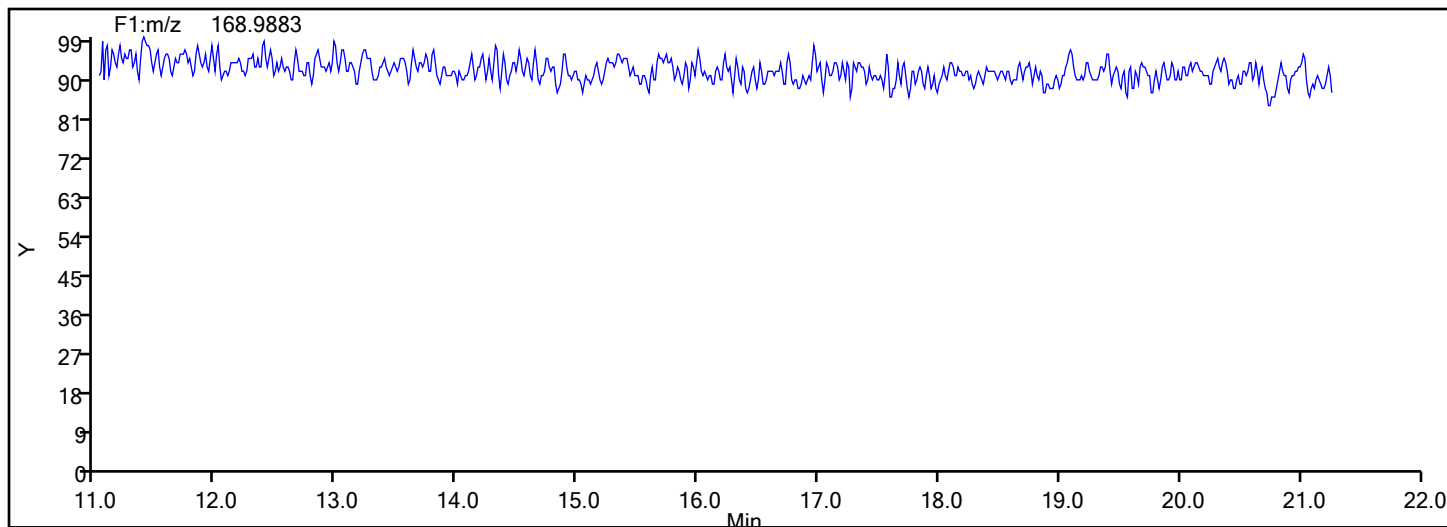
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Column Dia: 0.25 mm

Chromatogram showing peaks for PCBs in the 11.0 to 22.0 minute range. The y-axis is labeled 'Y (X10000)' and ranges from 0 to 42. The x-axis is labeled 'Min' and ranges from 11.0 to 22.0. Peaks are labeled with their retention times and names: F1:m/z 255.9613, F PCB-19 17.08, PCB-18/30 18.91, PCB-17 19.34, PCB-16 19.80, PCB-15 19.98, L PCB-32 20.31.

Chromatogram showing peaks for PCB-18/30, PCB-27, L PCB-32, and others. The x-axis is time in minutes (11.0 to 22.0) and the y-axis is intensity (Y (X10000)). Peaks are labeled with their retention times and names.

Peak Name	Retention Time (Min)
F PCB-19	17.08
PCB-18/30	18.91
PCB-17	19.35
PCB-27	19.56
PCB-16	19.80
L PCB-32	20.31

F1:m/z 268.0016

Y (X10000)

12.45

16.18

PCB-19L
17.07

PCB-32L
20.30

Min

Chromatogram showing two peaks:

- Peak 1: PCB-19L at 17.07 minutes.
- Peak 2: PCB-32L at 20.30 minutes.

The y-axis is labeled Y (X10000) and the x-axis is labeled Min. The title is F1:m/z 269.9986.

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

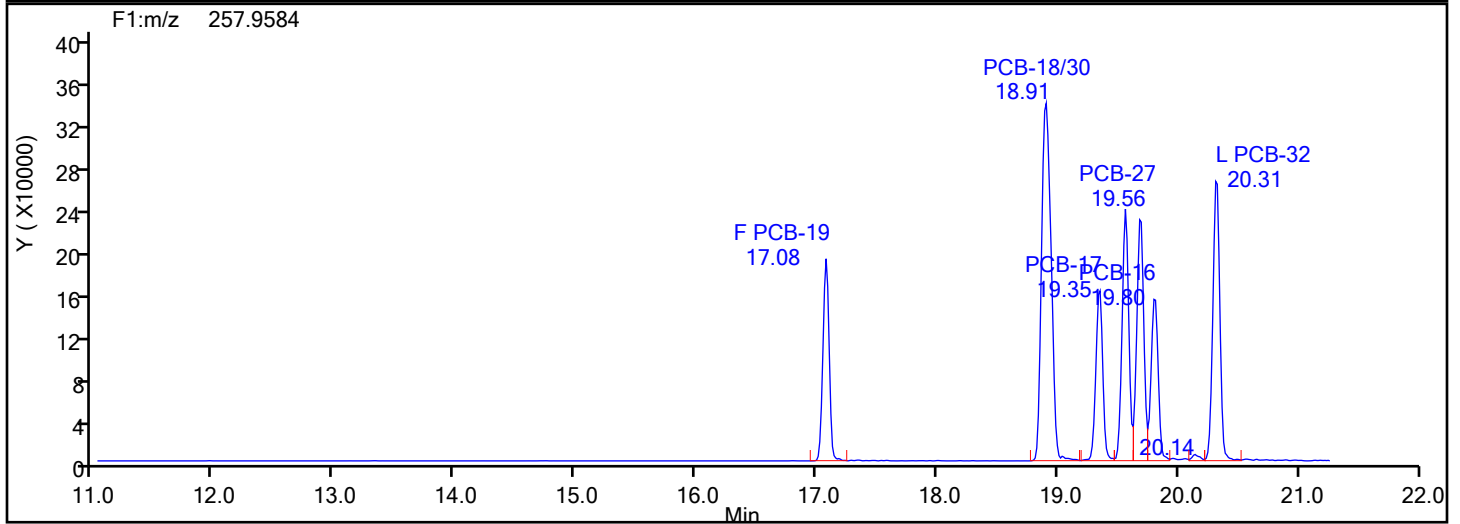
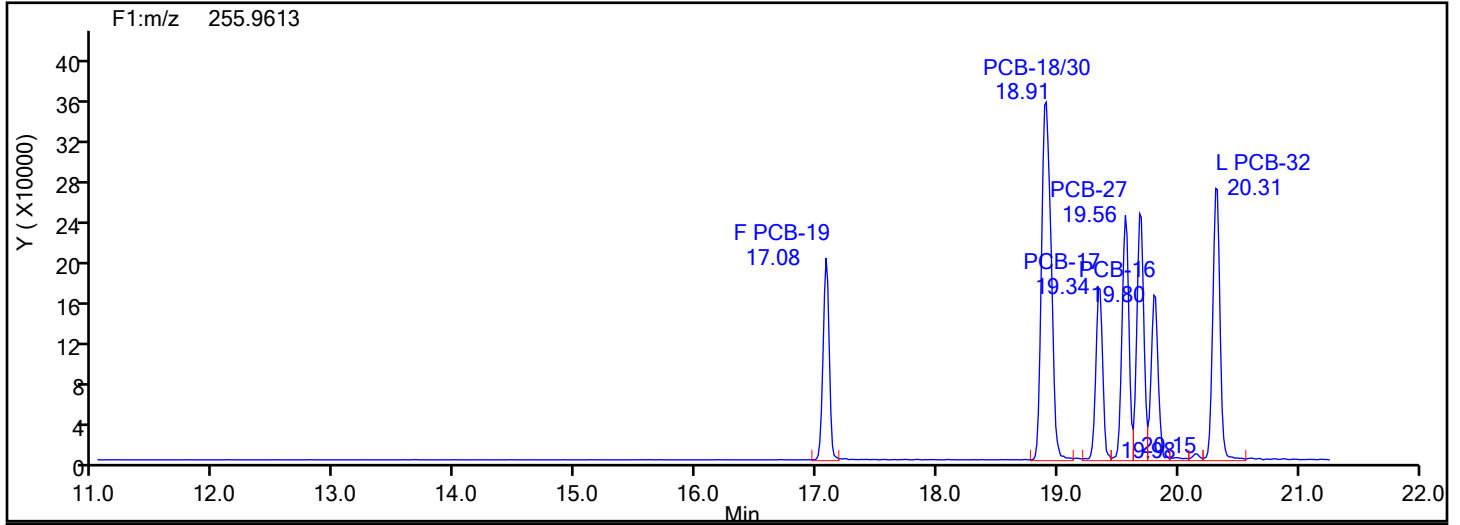
Worklist#: 87502

Sample Line#: 2

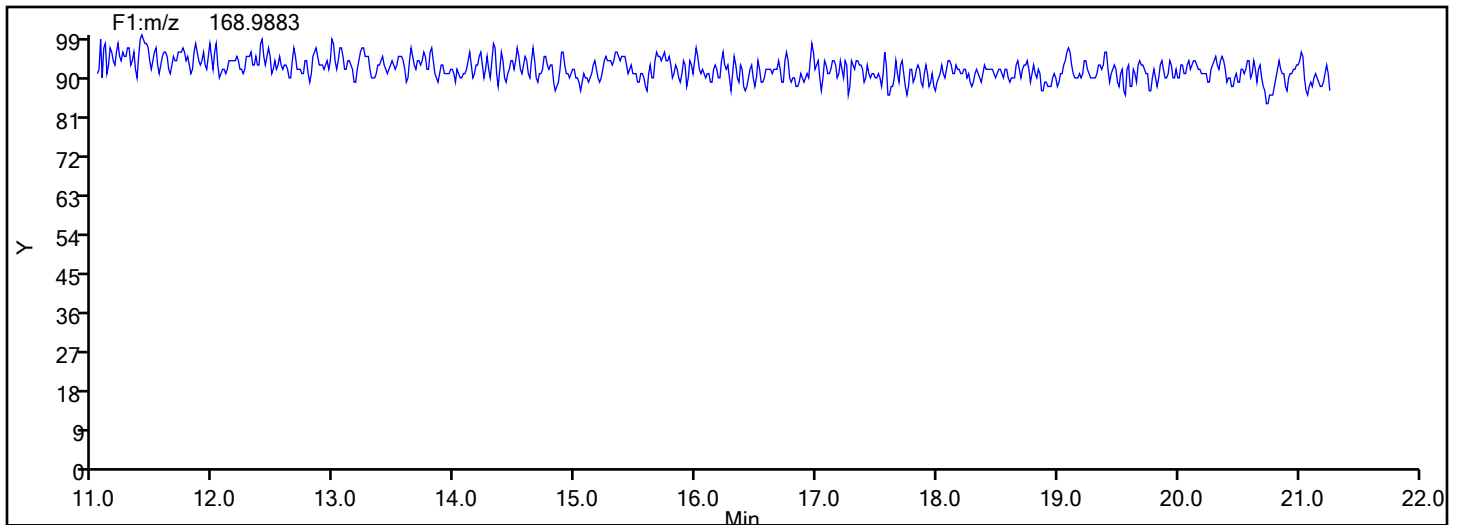
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

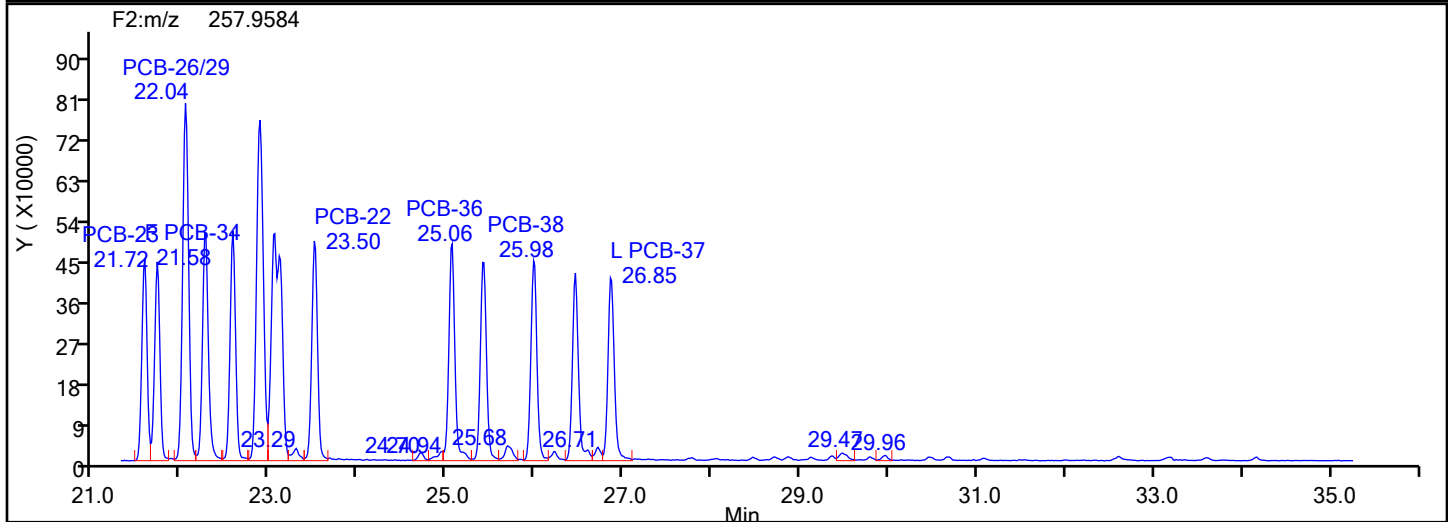
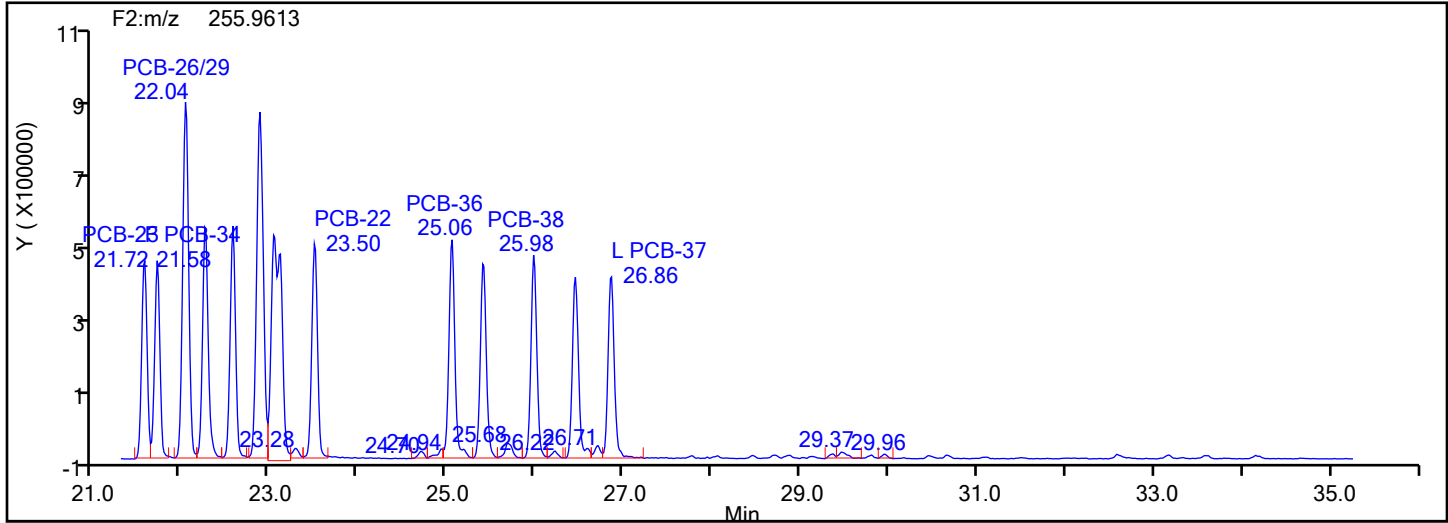
Worklist#: 87502

Sample Line#: 2

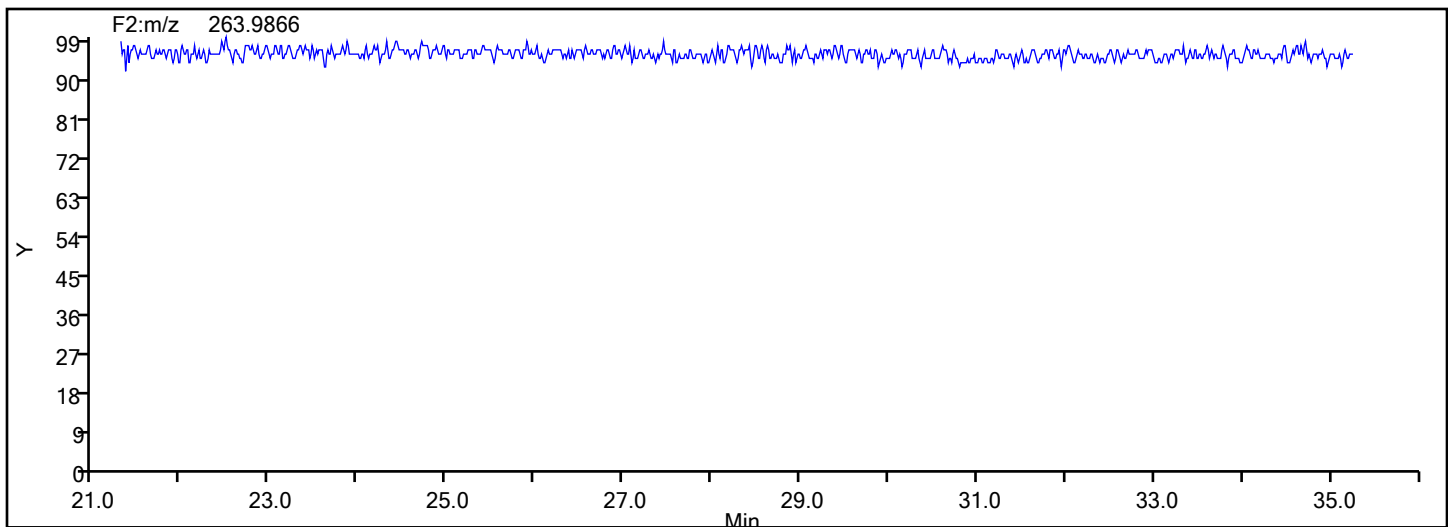
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

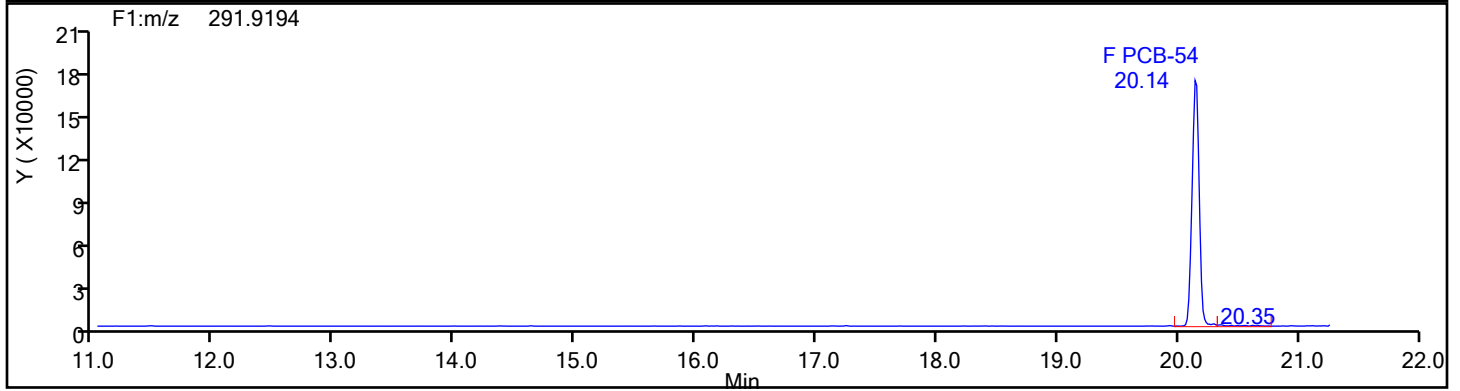
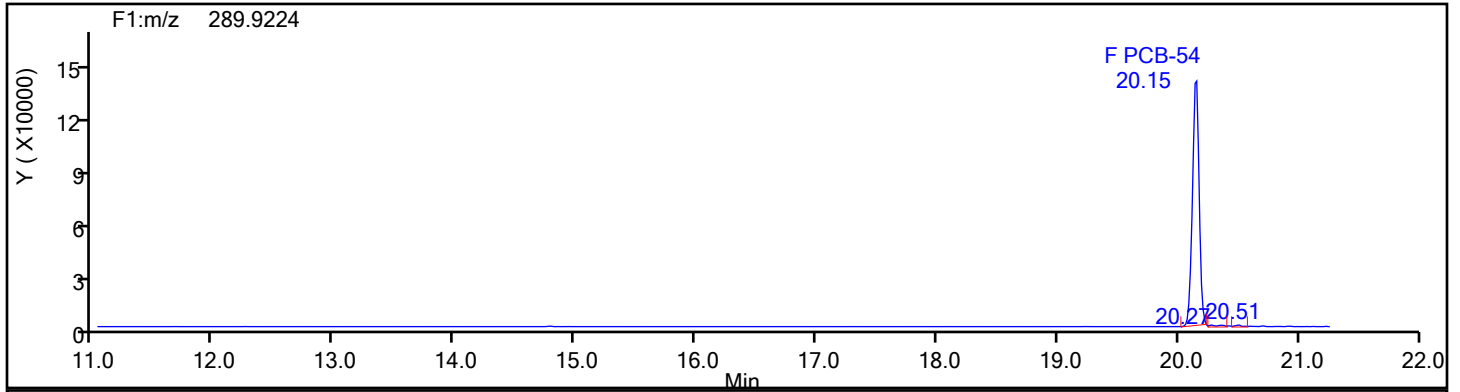
Worklist#: 87502

Sample Line#: 2

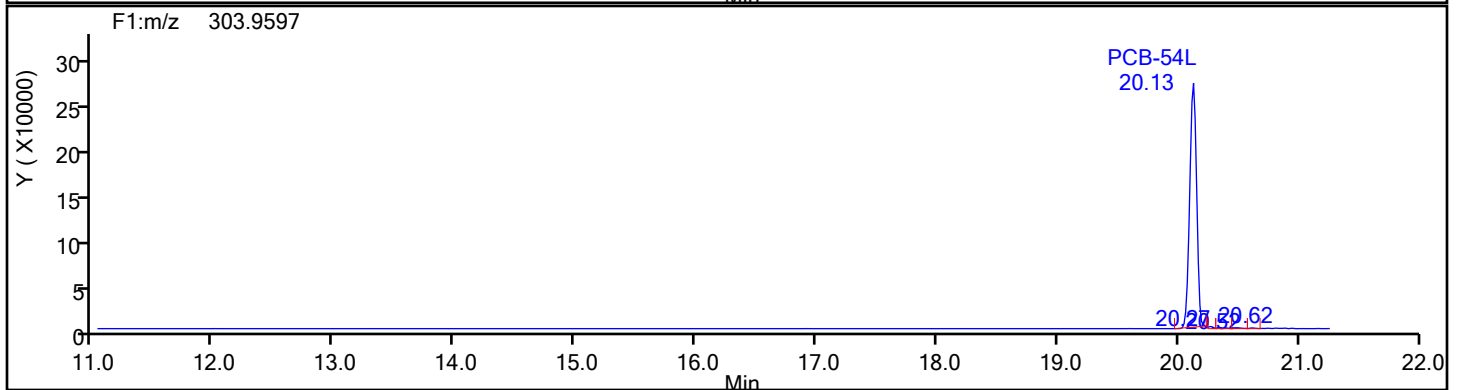
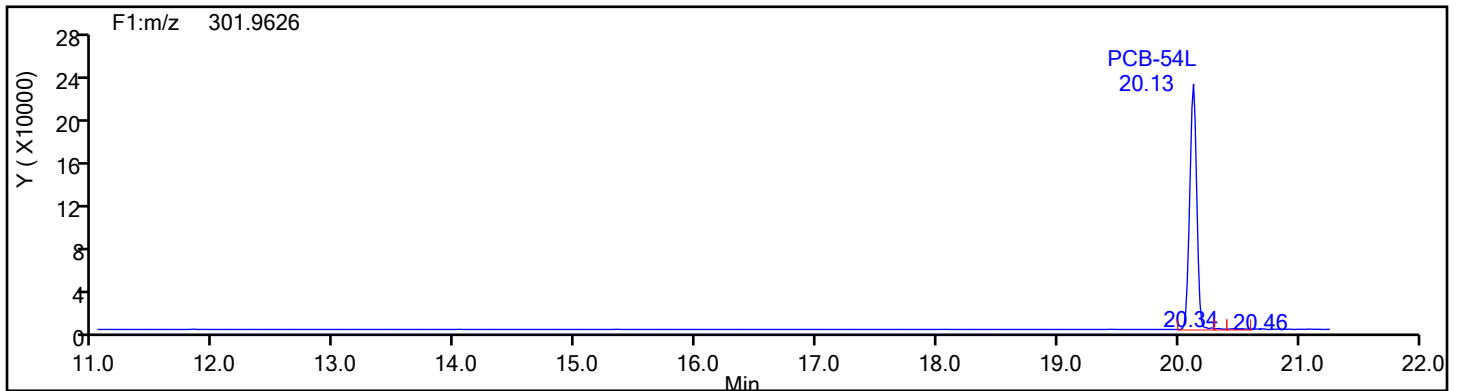
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\cs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

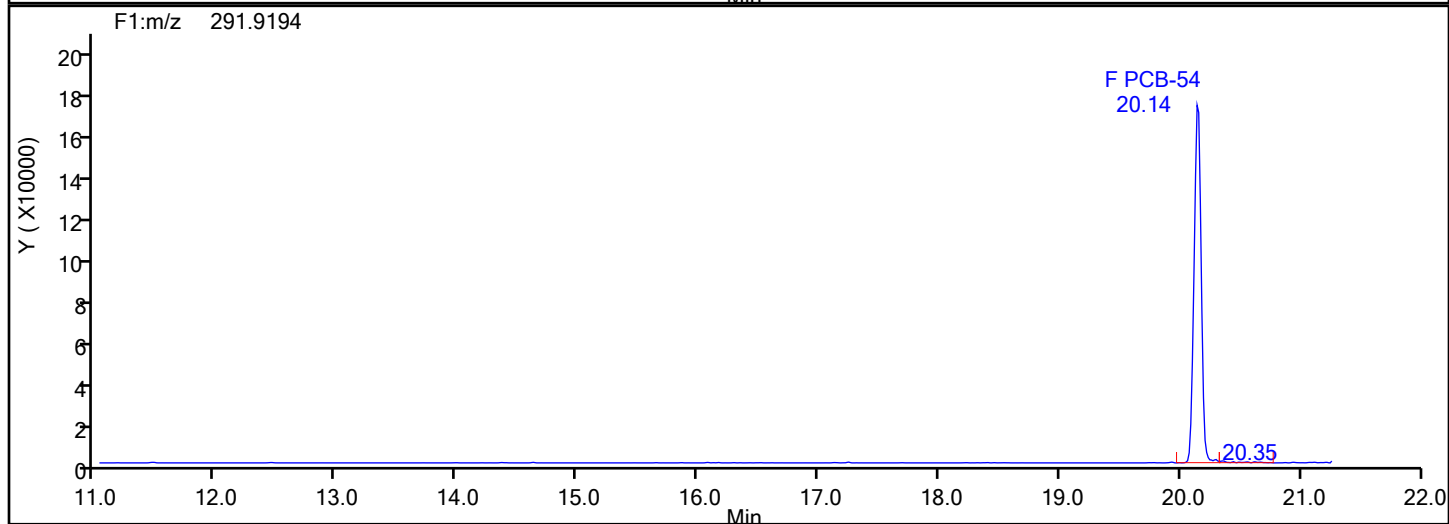
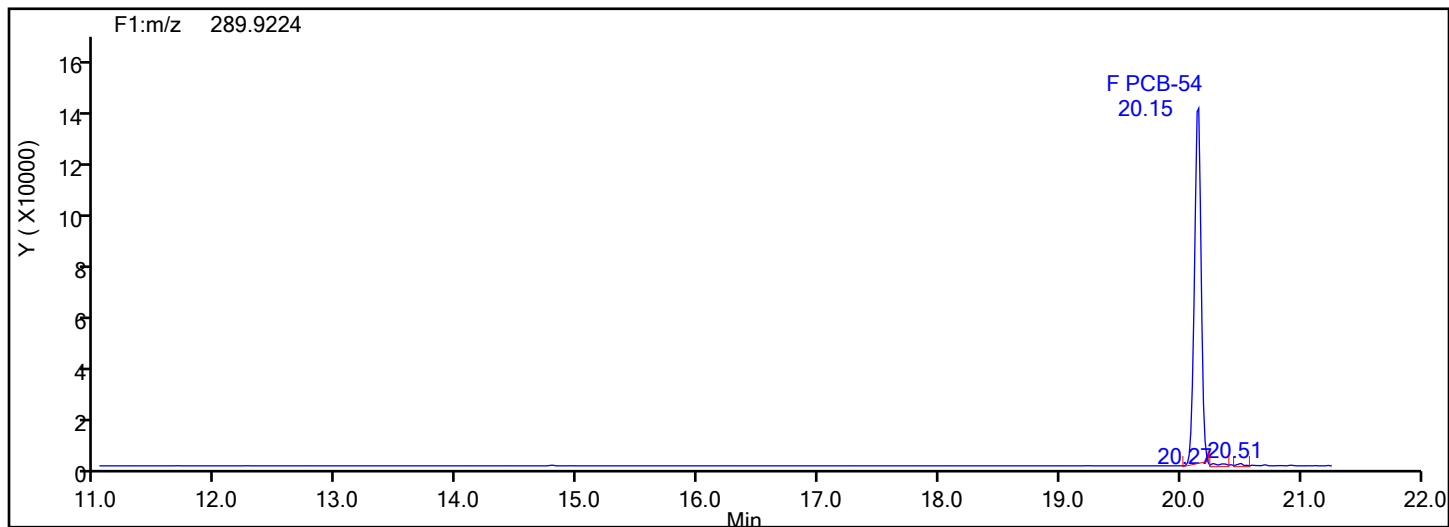
Worklist#: 87502

Sample Line#: 2

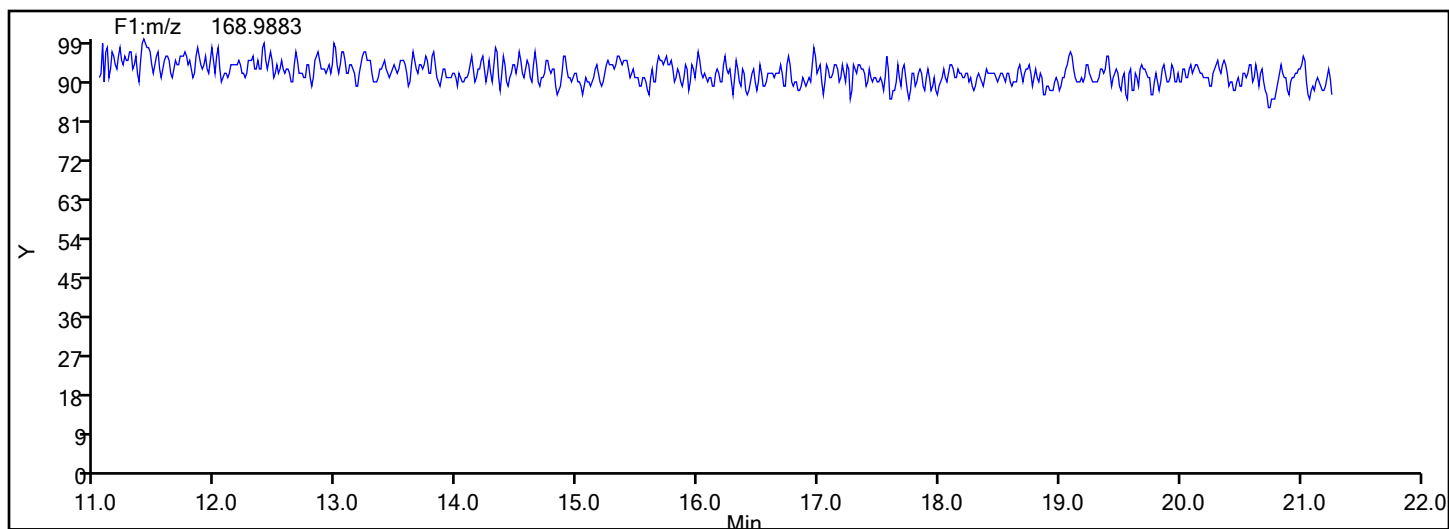
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

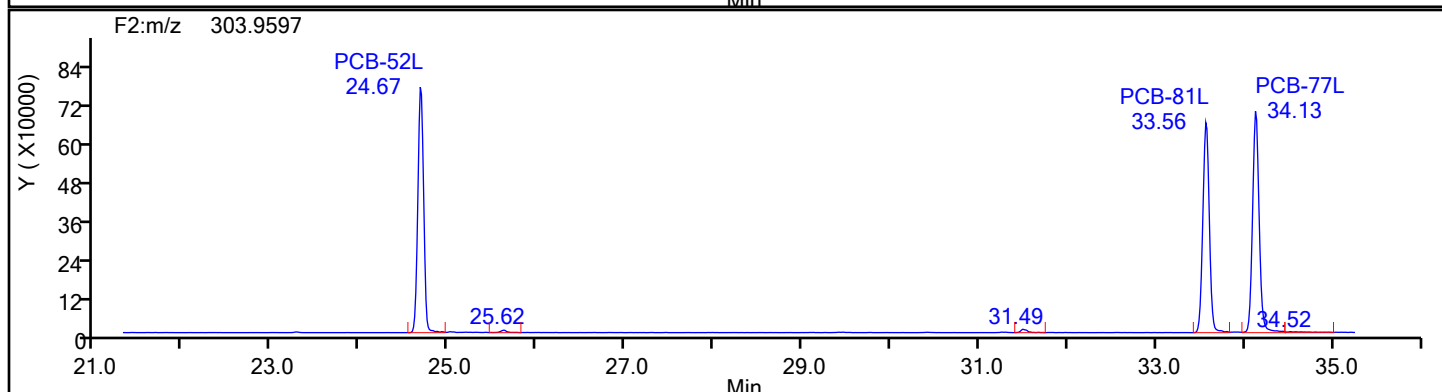
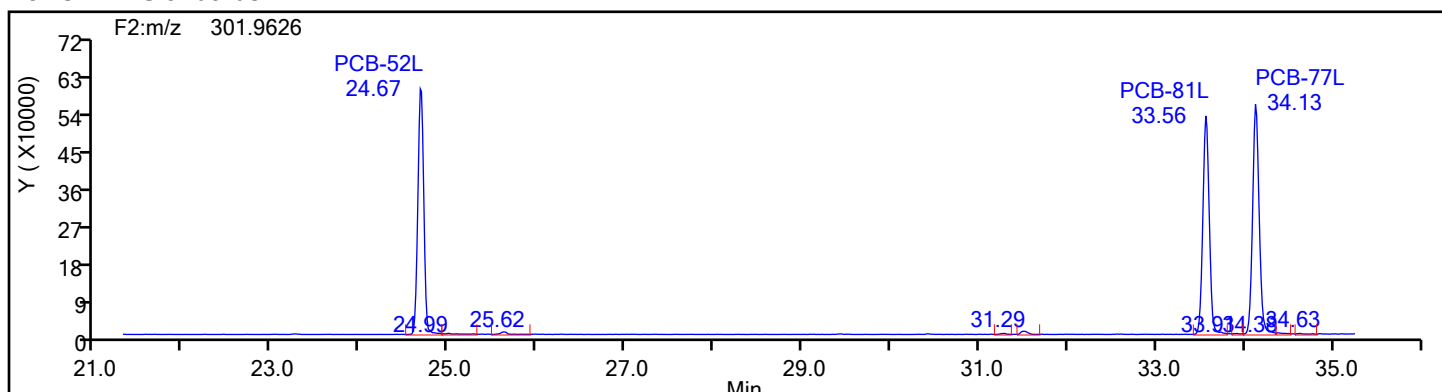
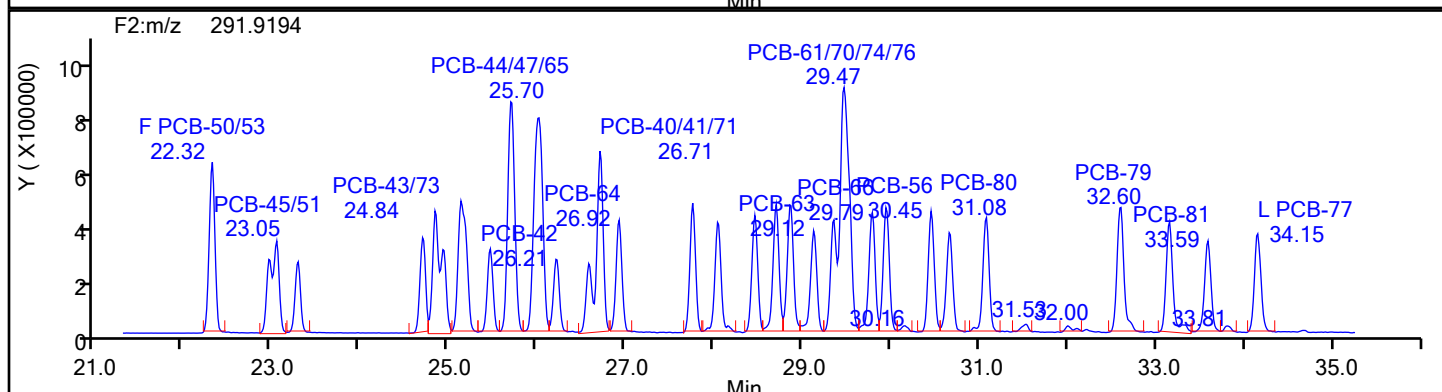
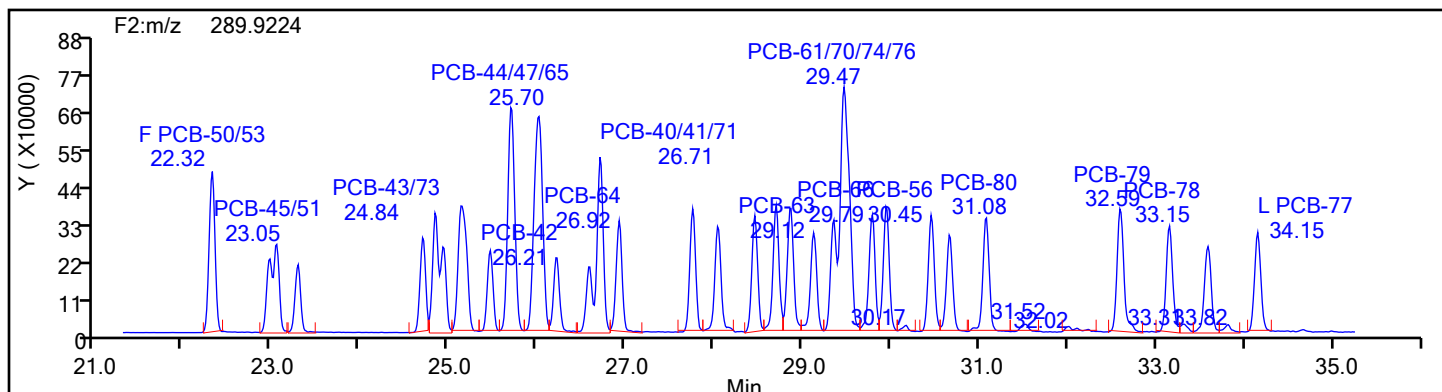


TePCB F1 Lock Mass



Chrom Revision: 2.3 20-May-2024 22:00:34

Column Dia: 0.25 mm



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

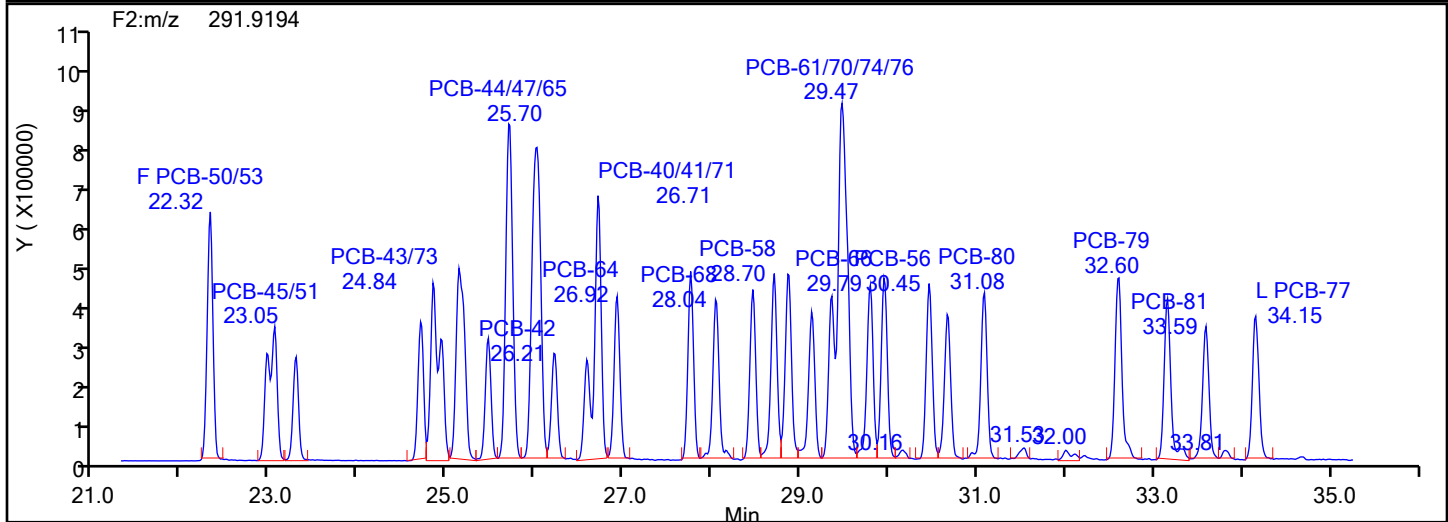
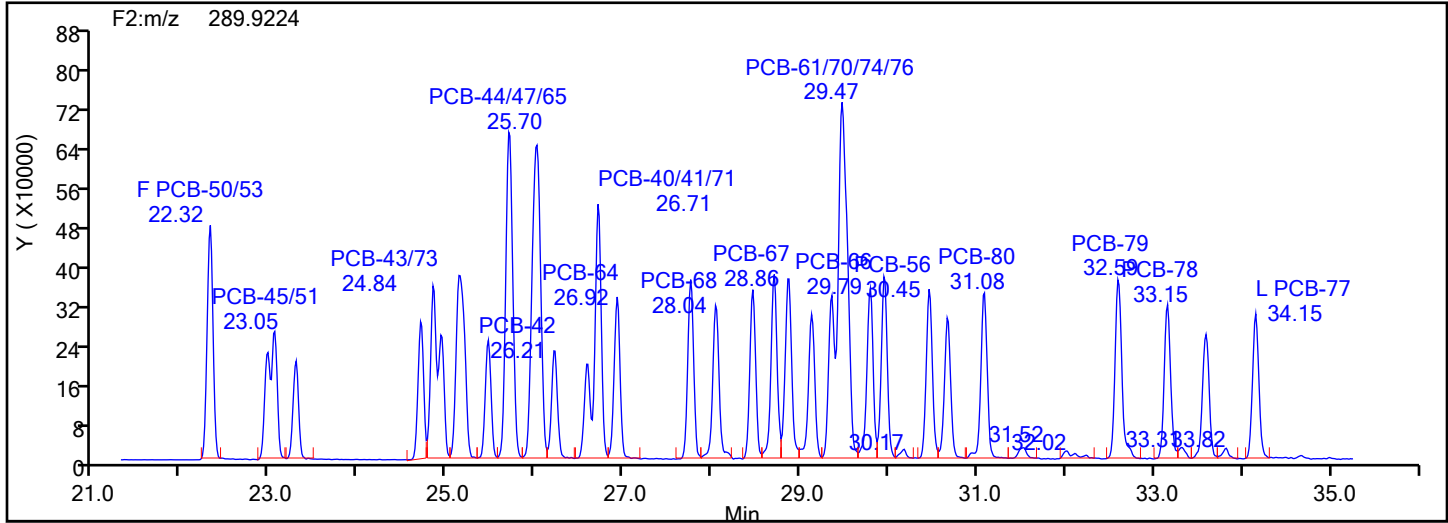
Worklist#: 87502

Sample Line#: 2

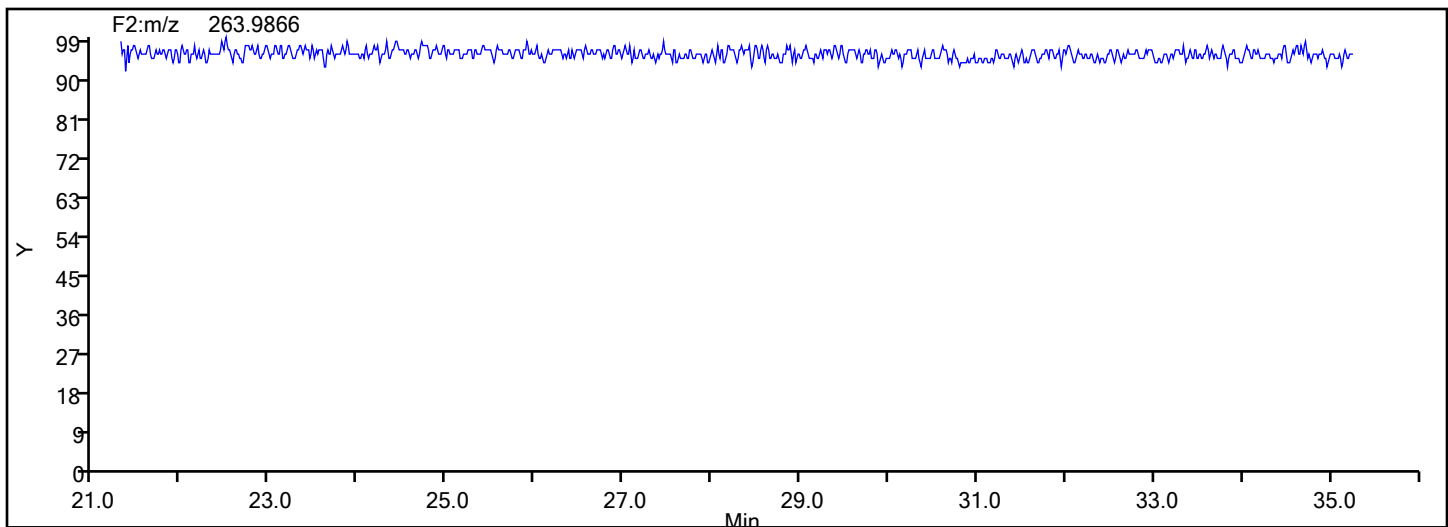
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

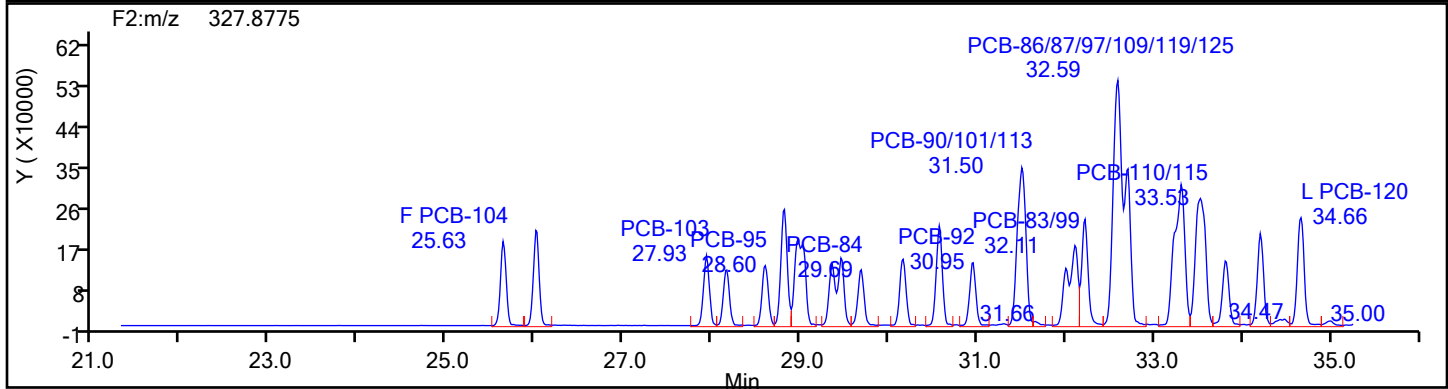
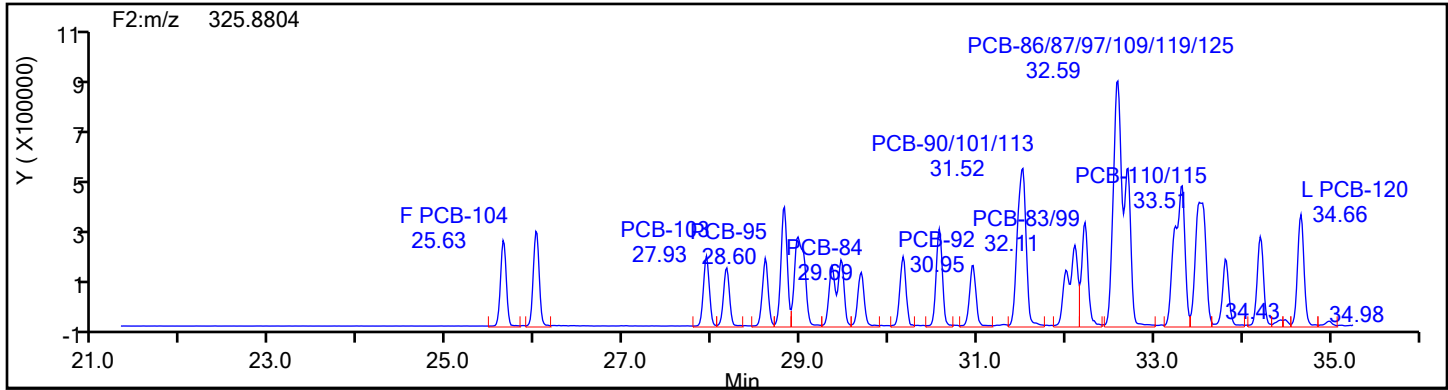
Worklist#: 87502

Sample Line#: 2

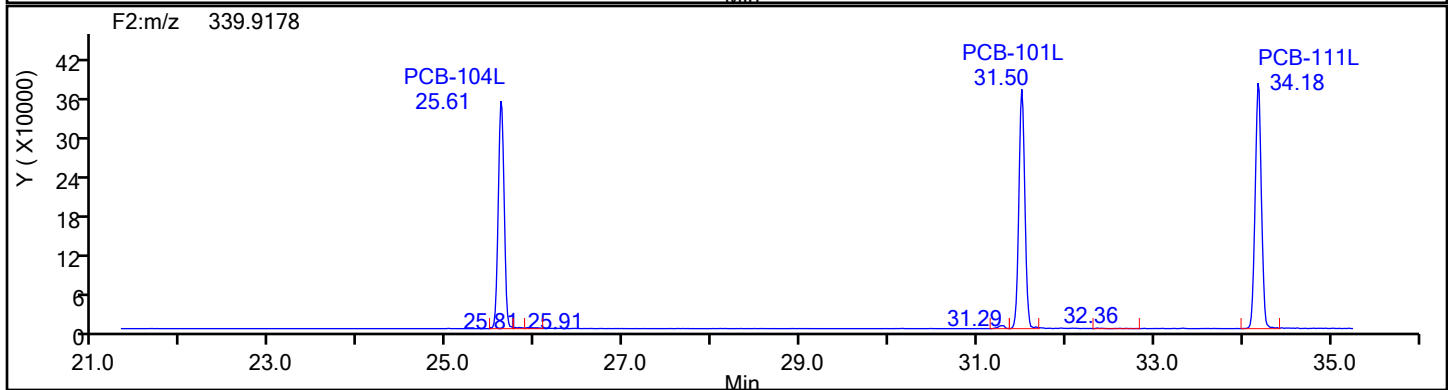
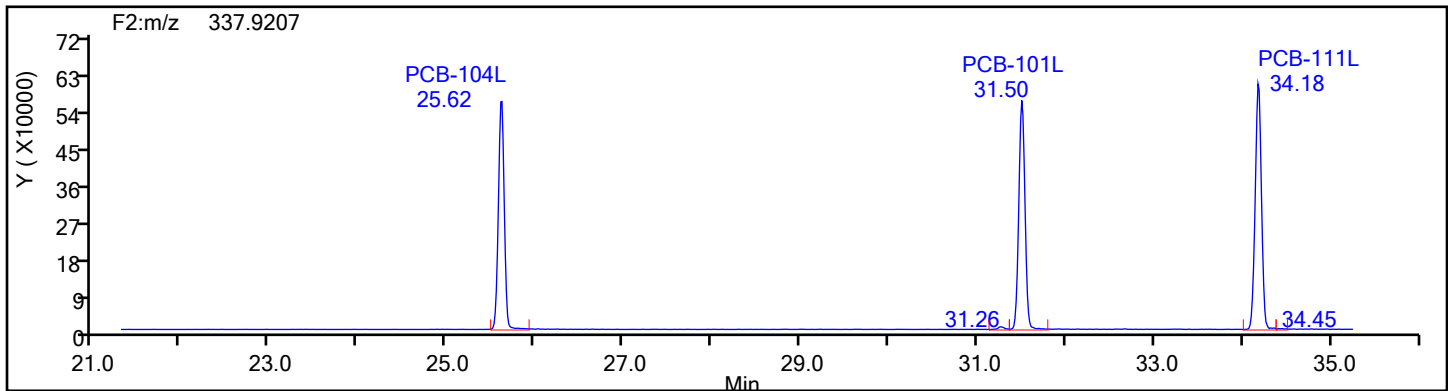
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

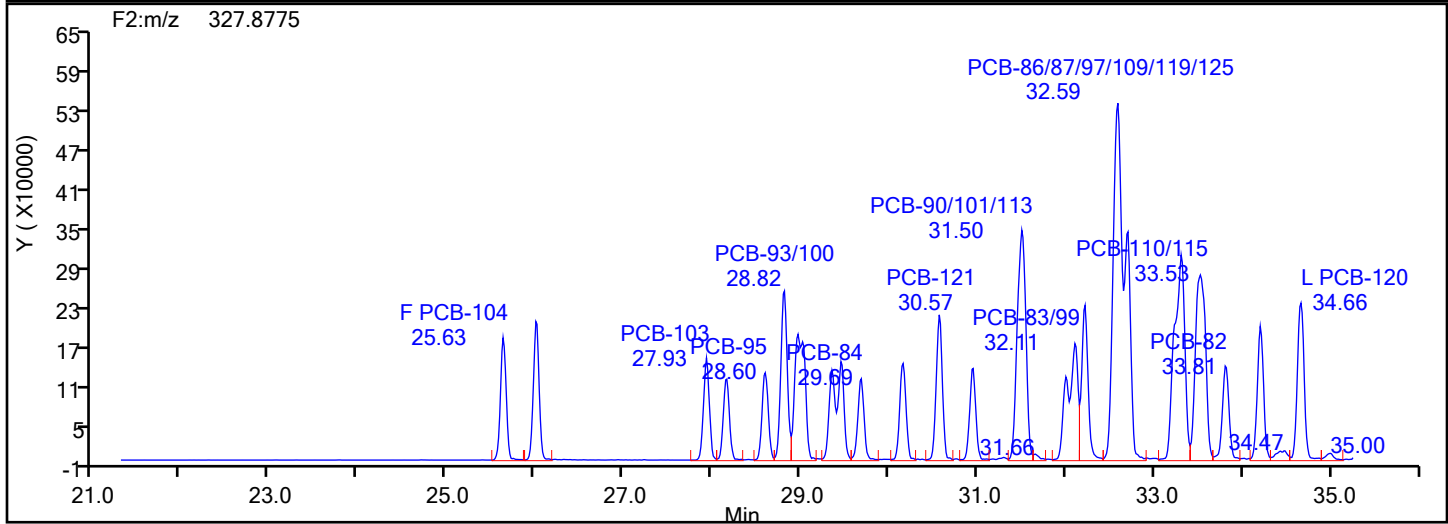
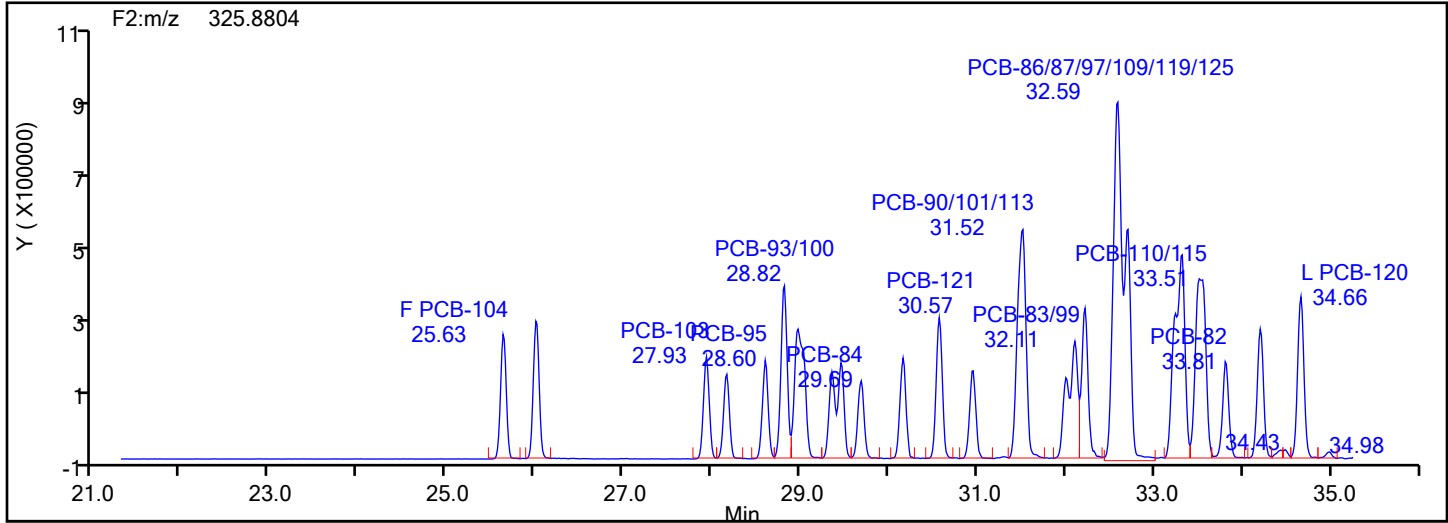
Worklist#: 87502

Sample Line#: 2

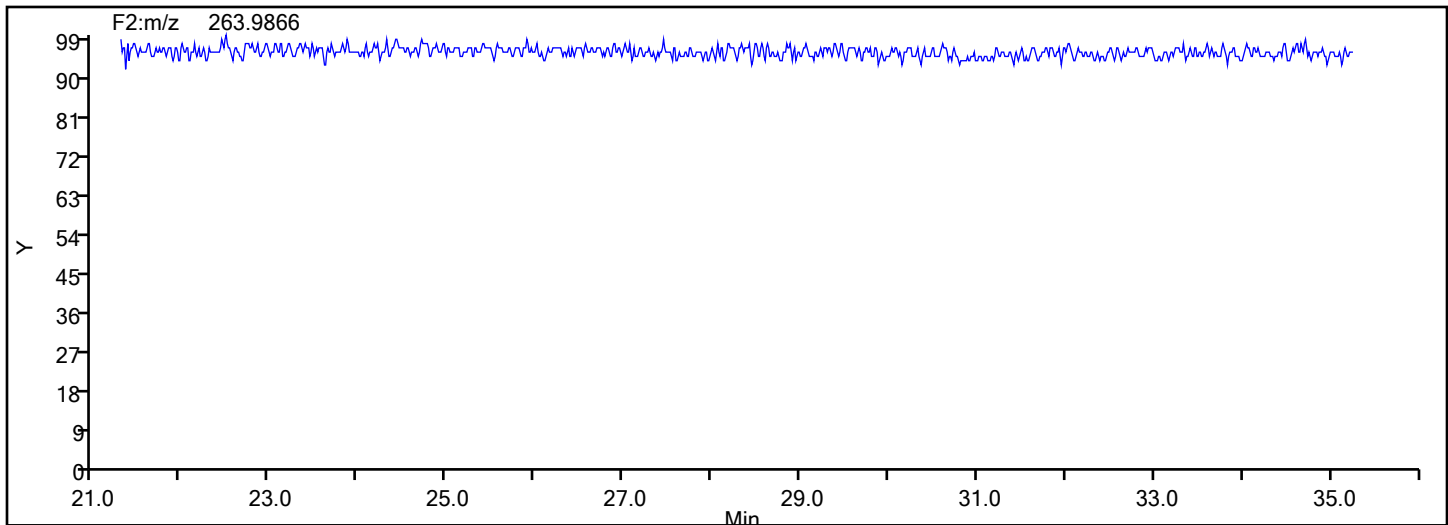
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

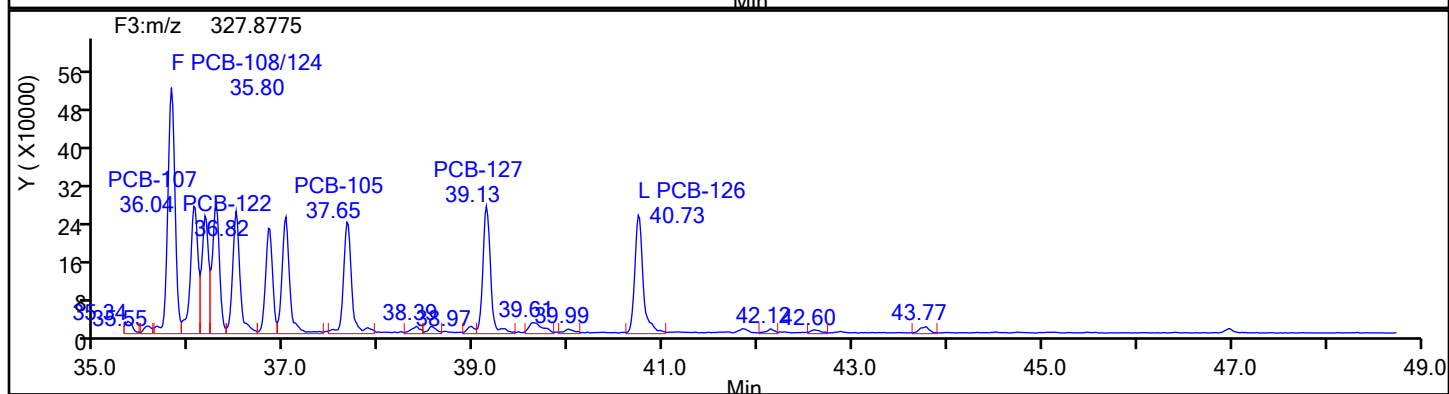
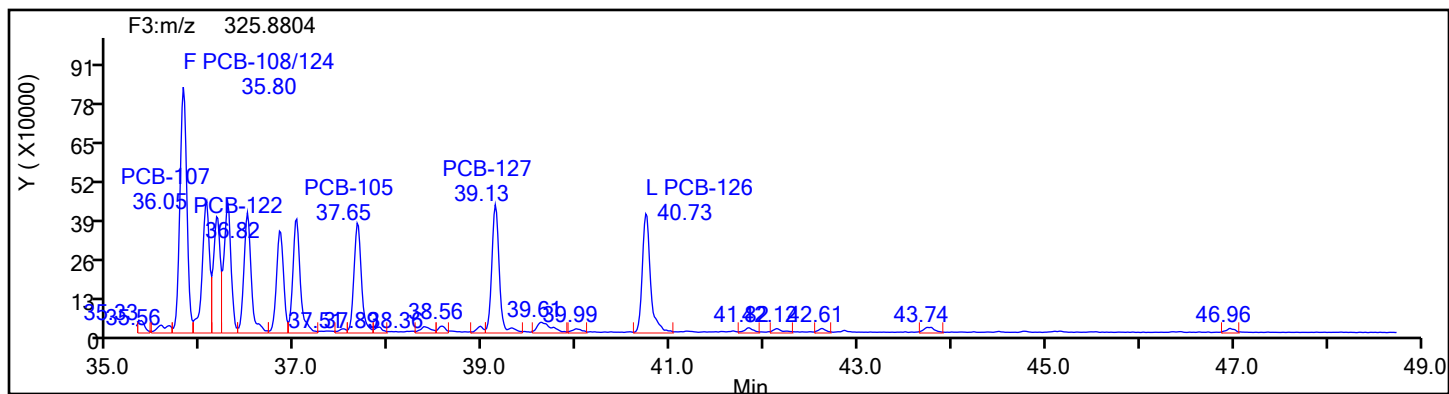
Worklist#: 87502

Sample Line#: 2

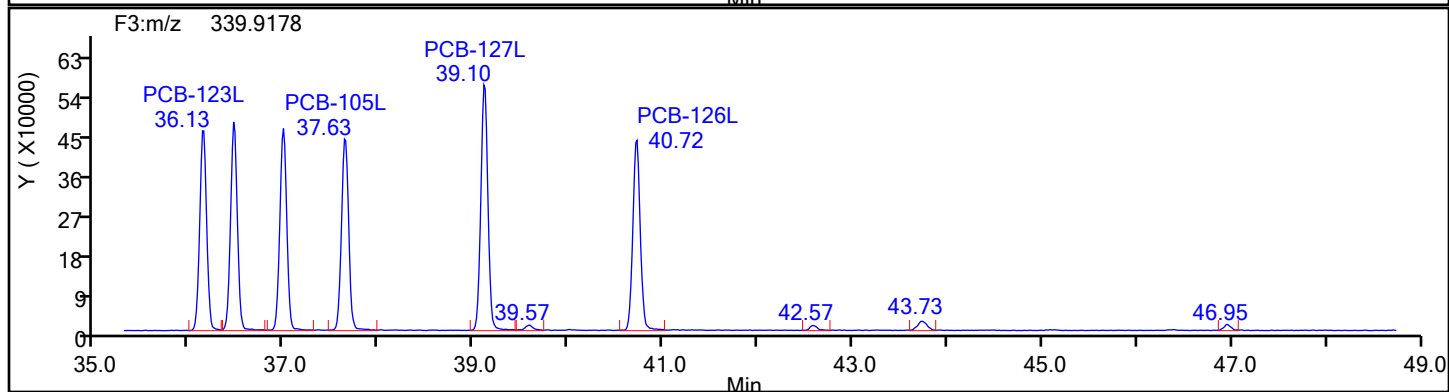
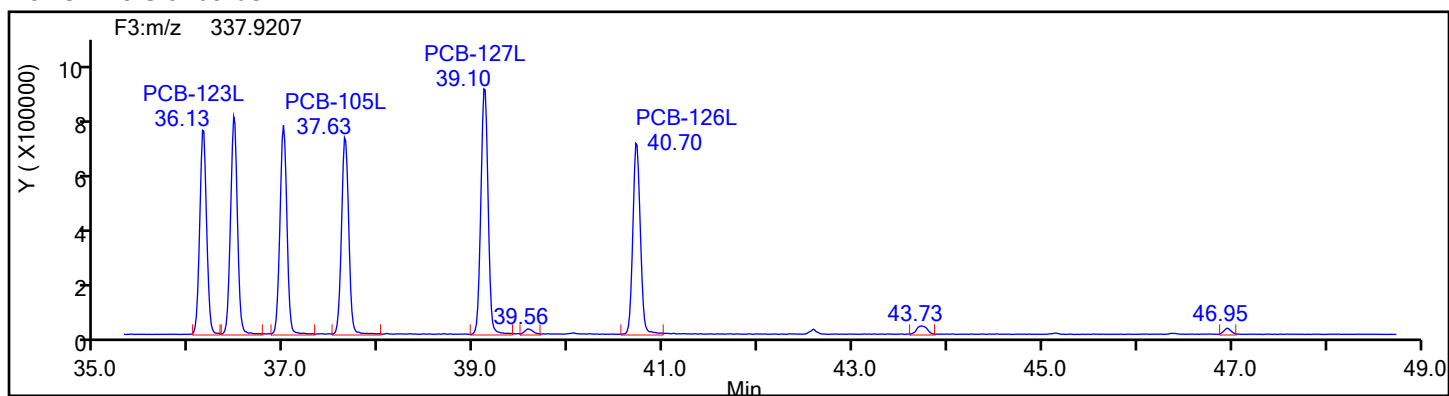
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

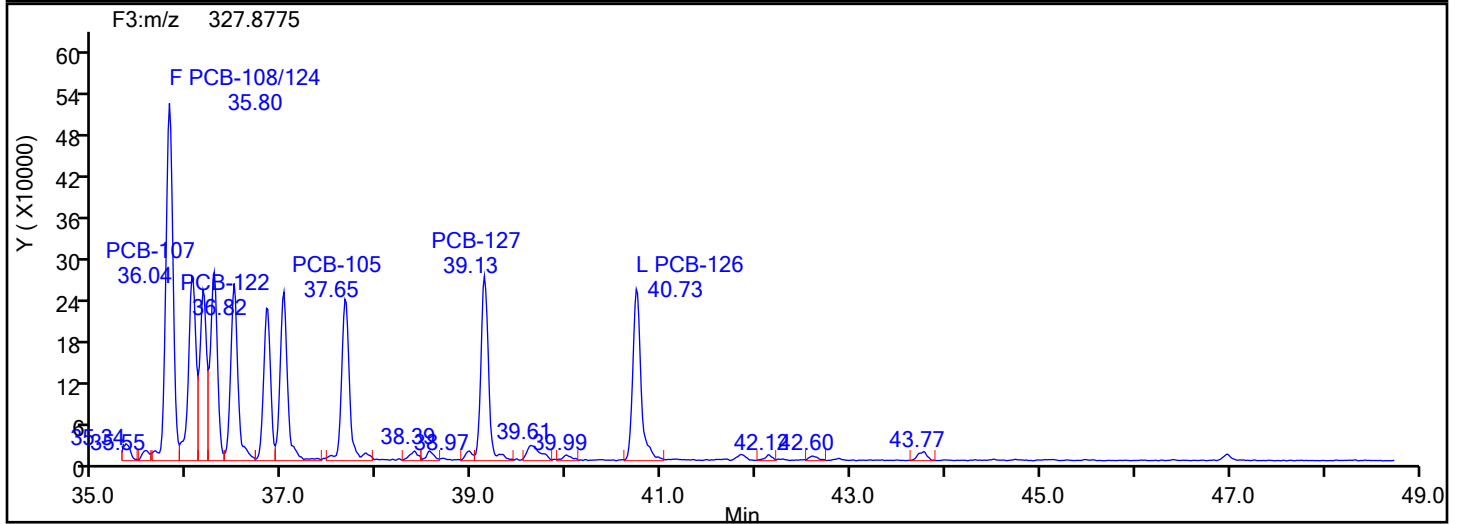
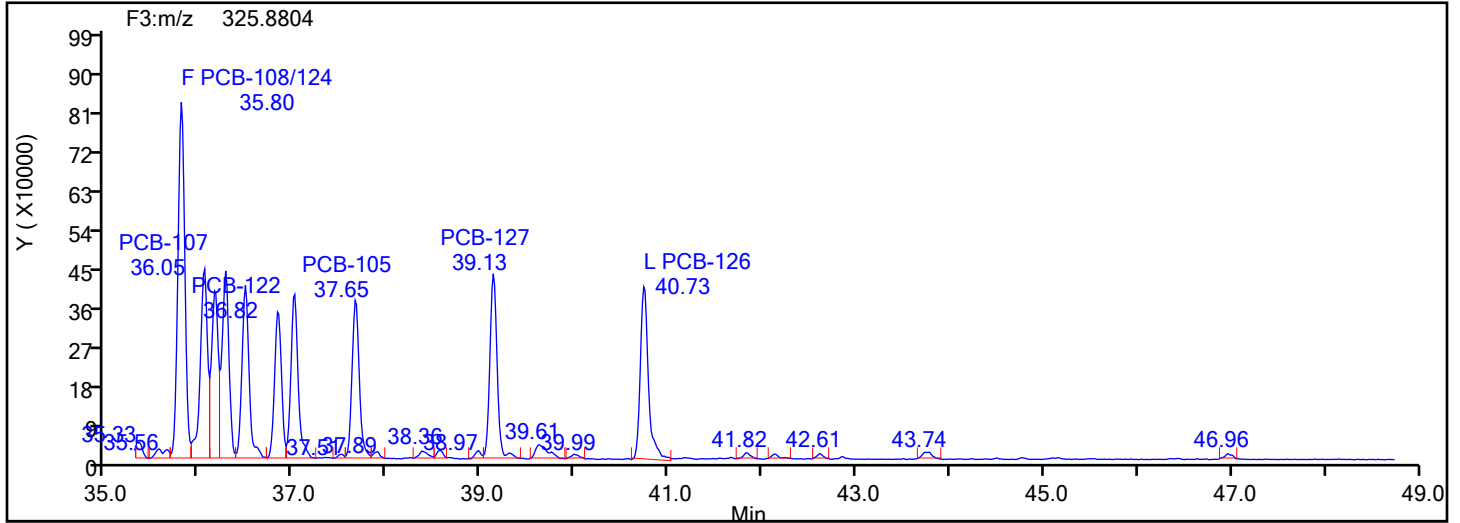
Worklist#: 87502

Sample Line#: 2

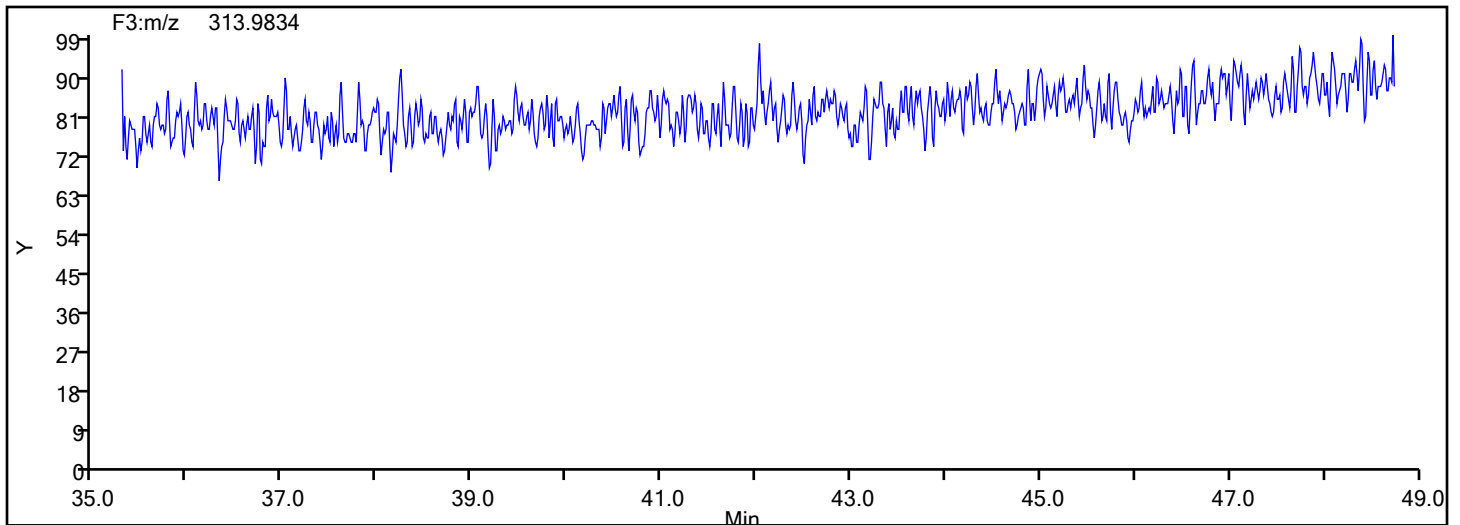
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

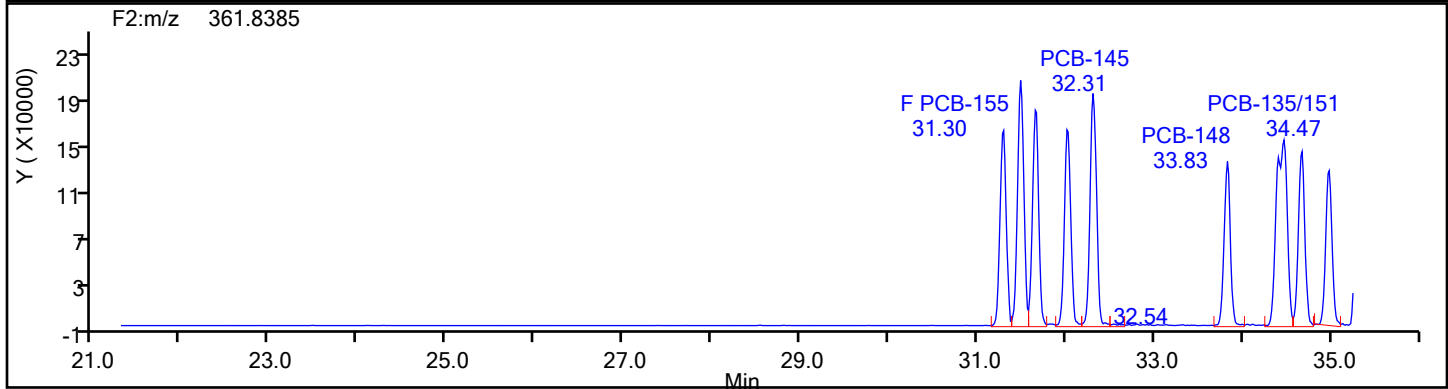
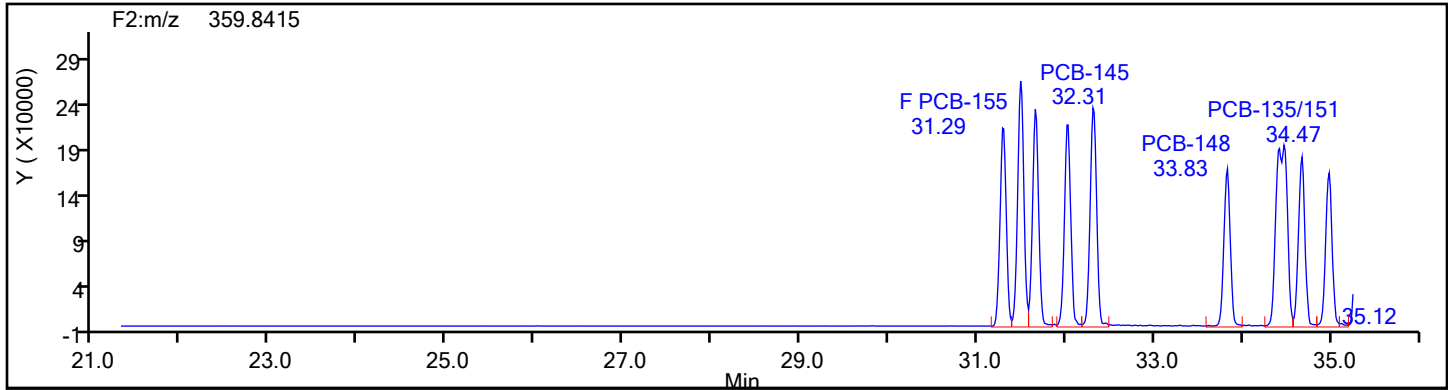
Worklist#: 87502

Sample Line#: 2

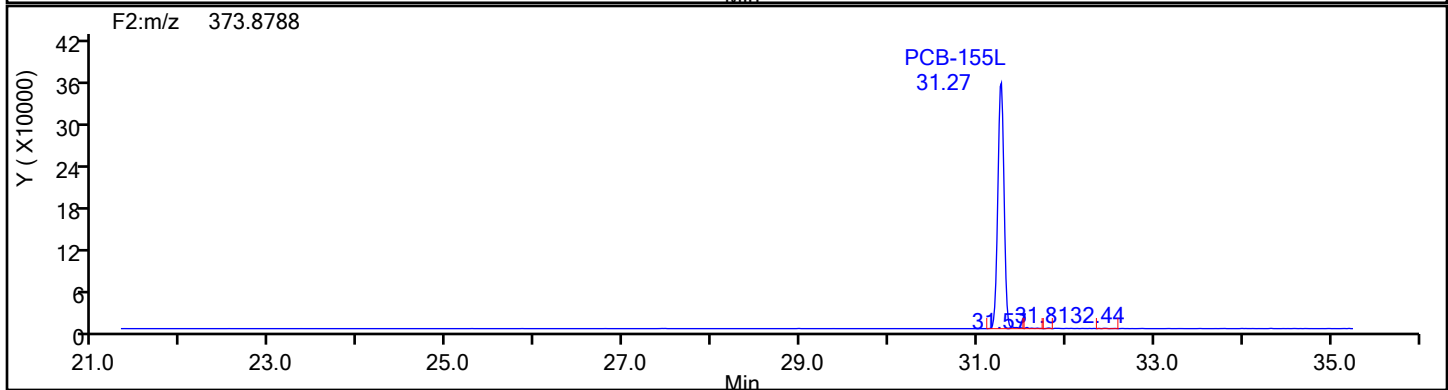
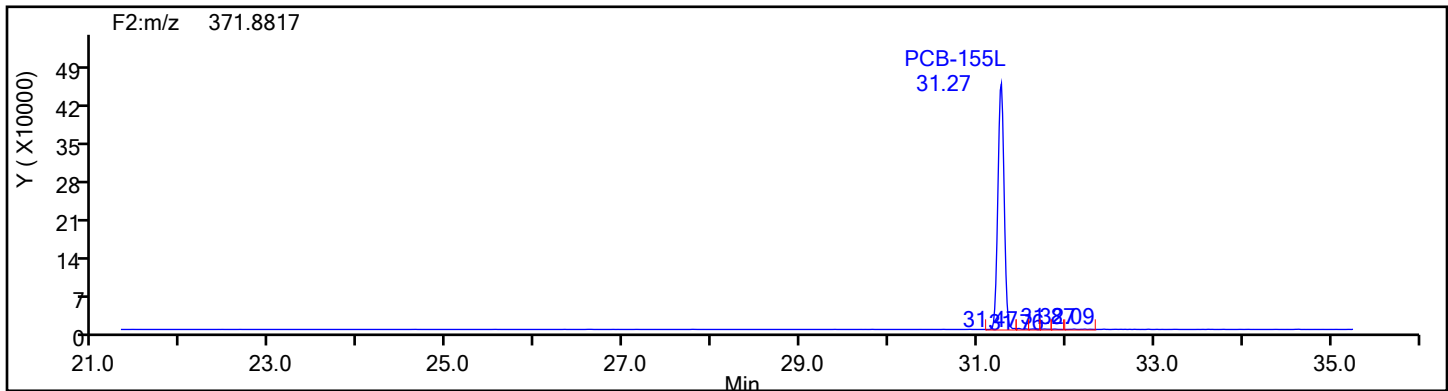
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

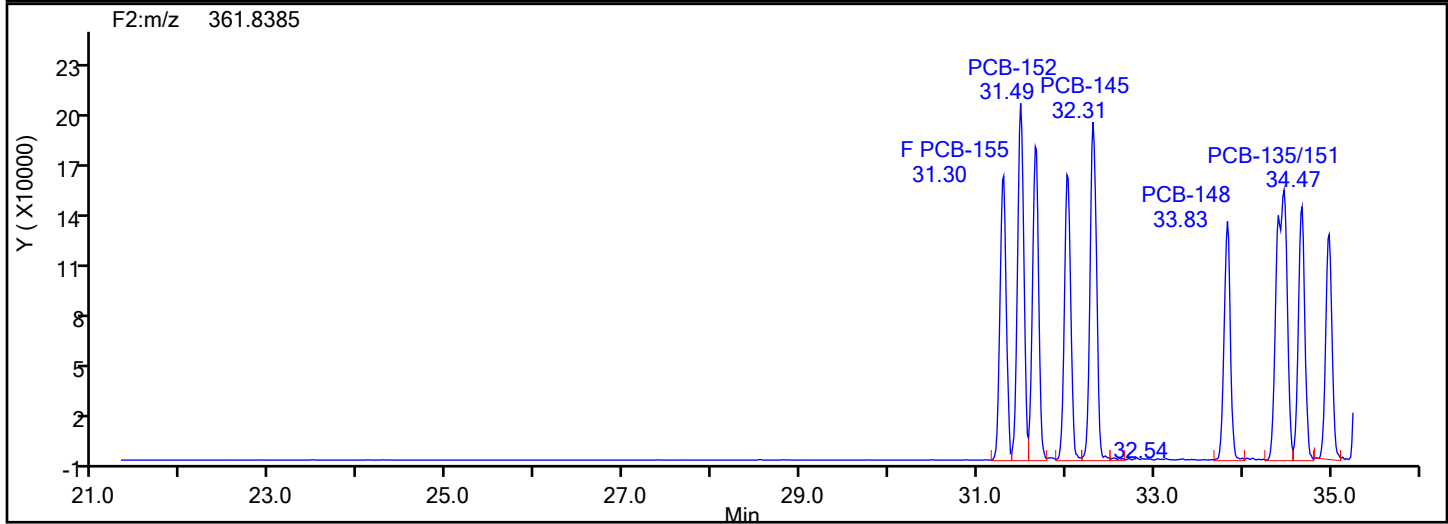
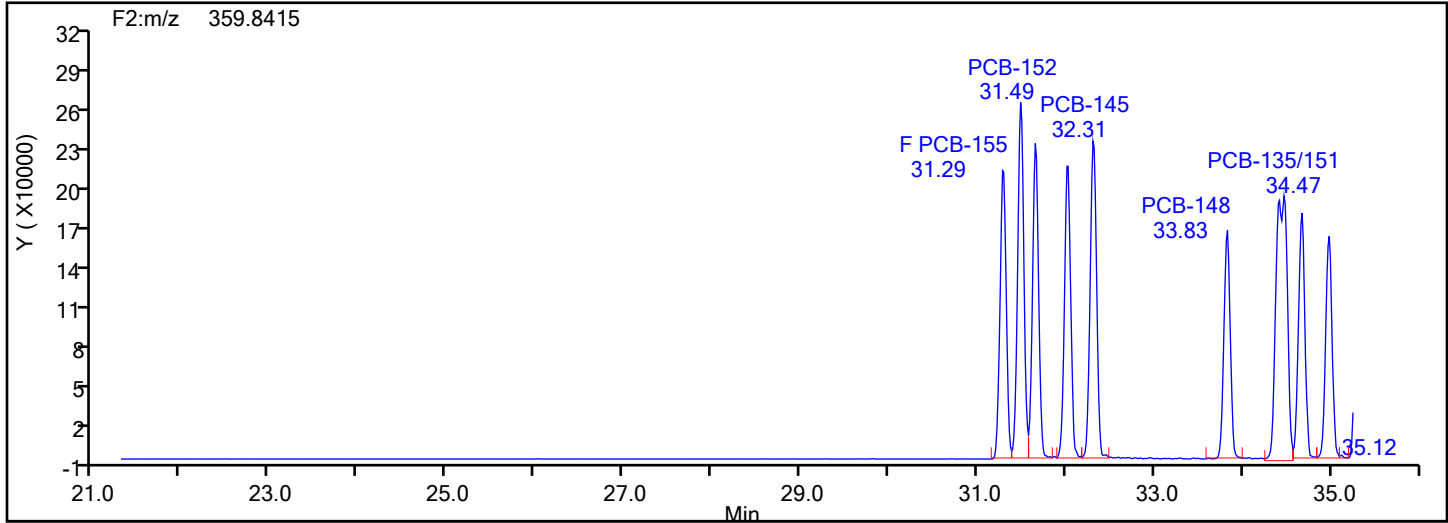
Worklist#: 87502

Sample Line#: 2

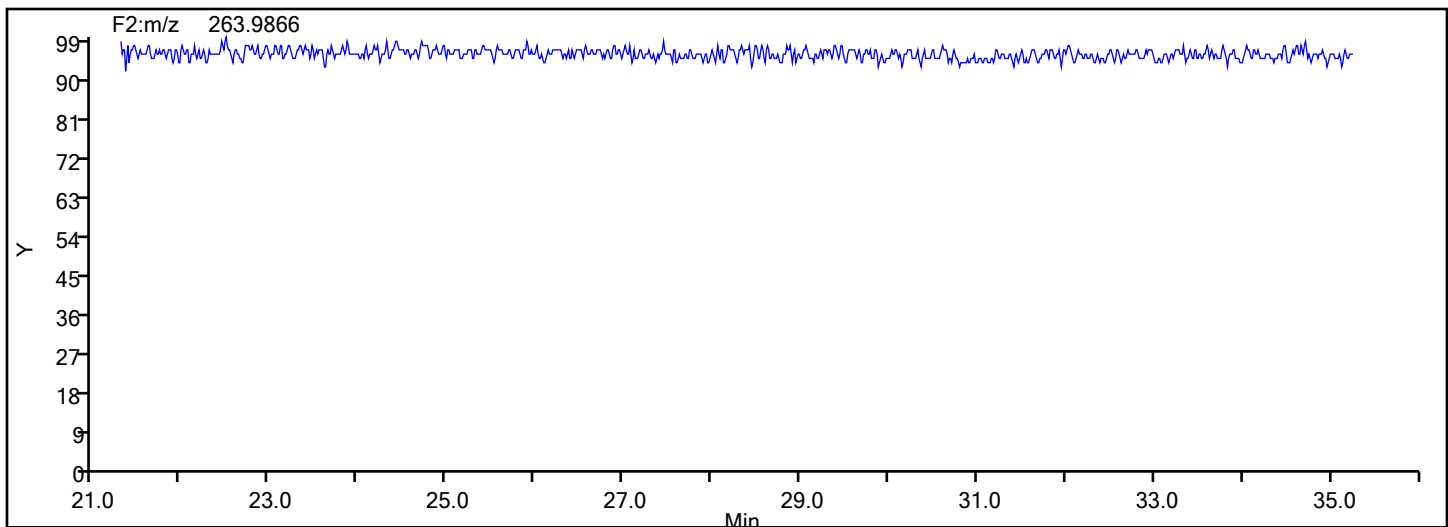
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

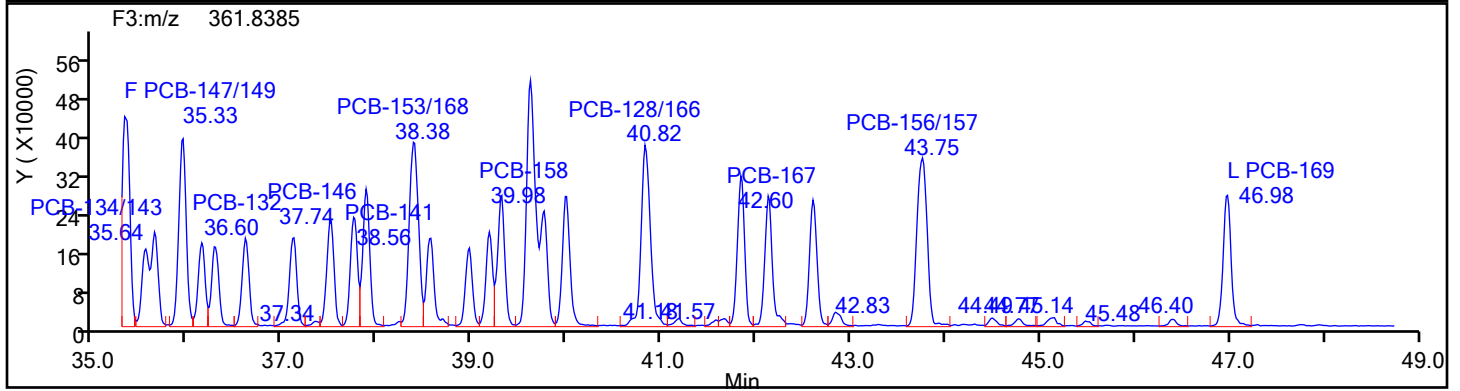
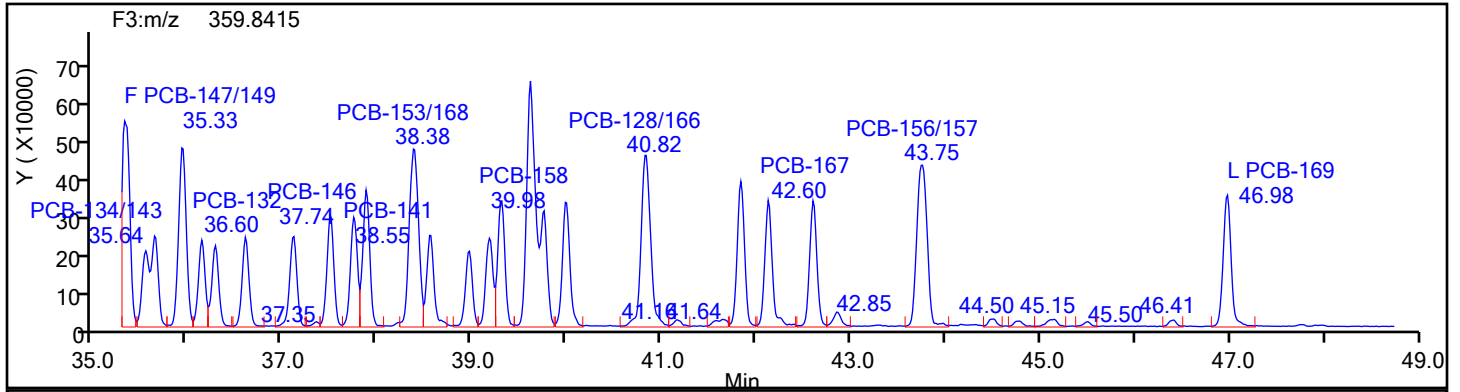
Worklist#: 87502

Sample Line#: 2

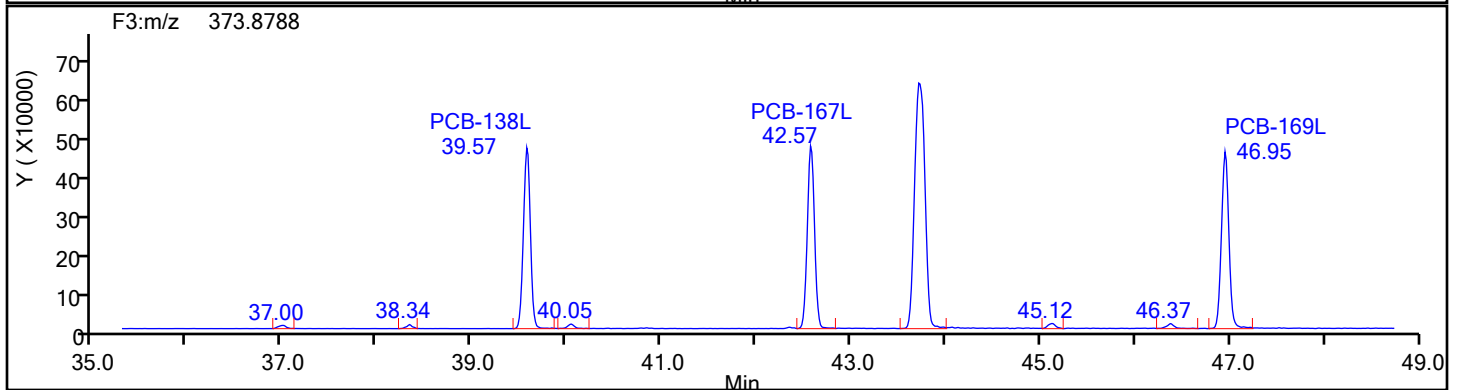
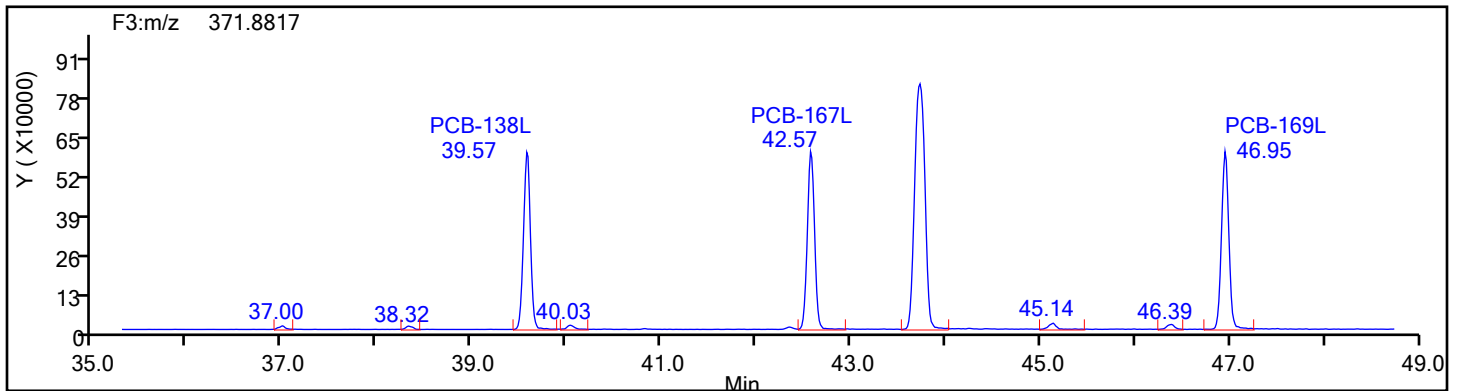
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

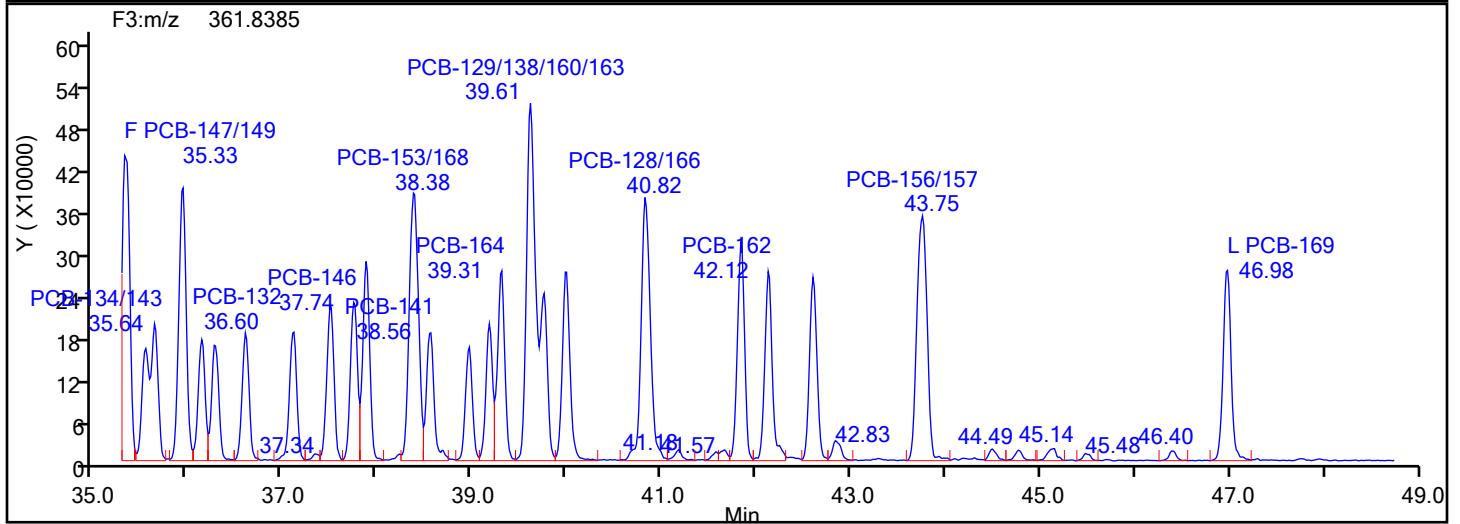
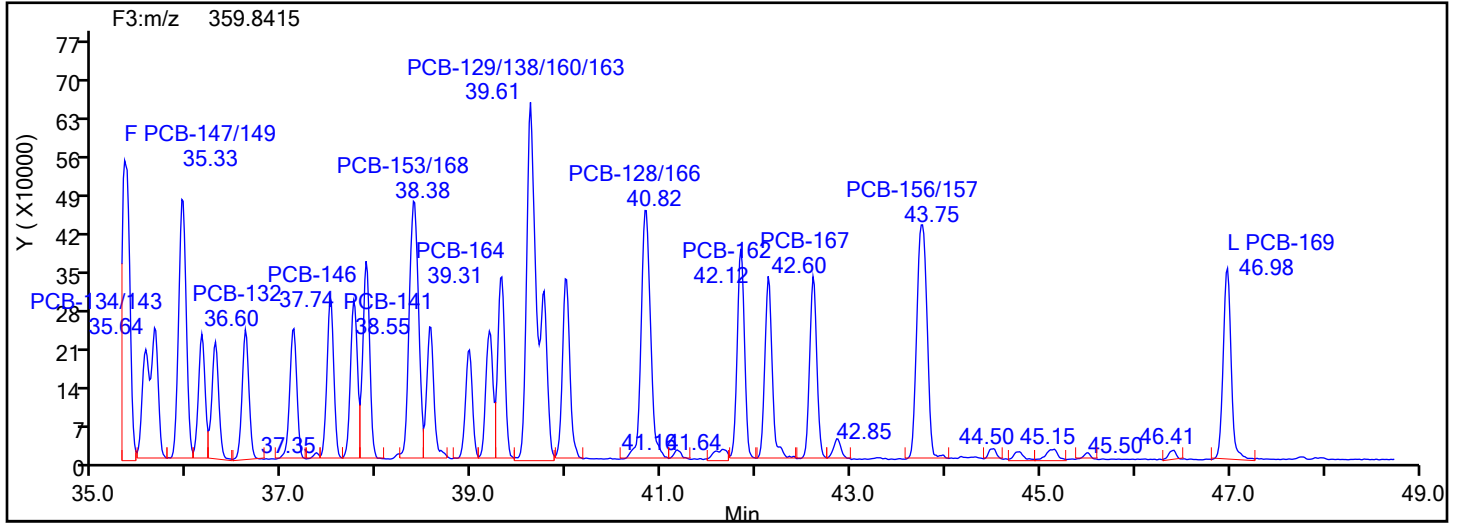
Worklist#: 87502

Sample Line#: 2

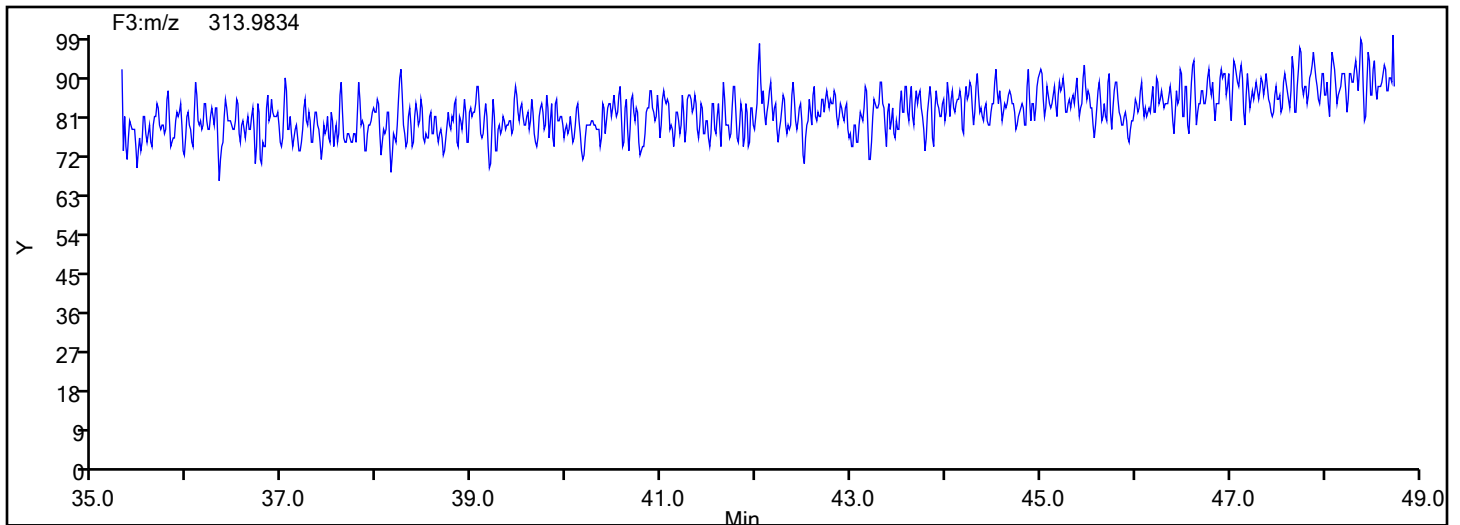
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Instrument ID: D2D

Lims ID: LCS 140-87206/15-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

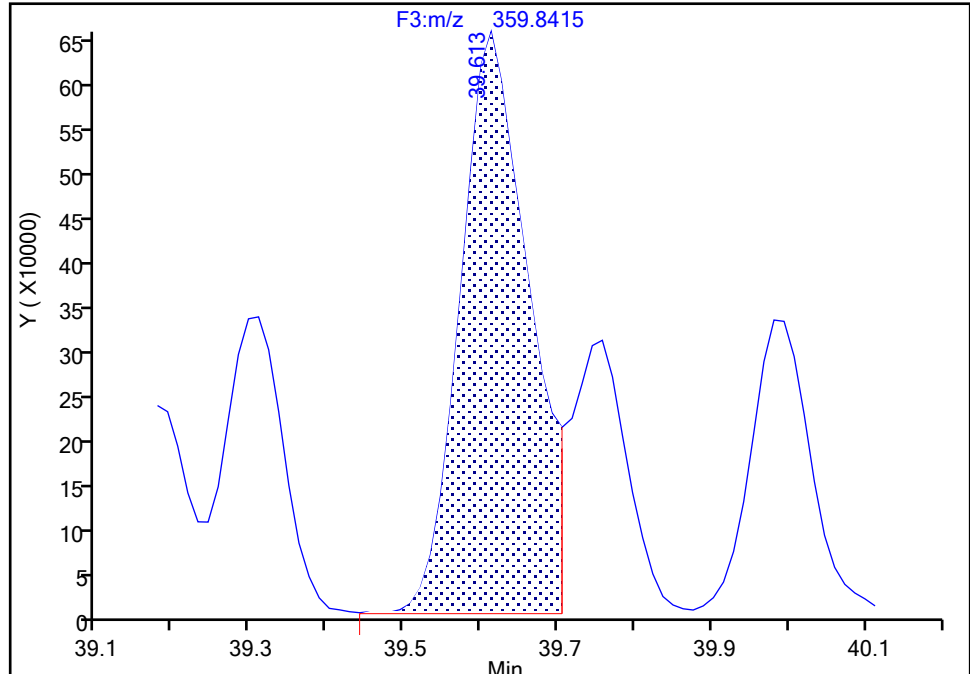
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

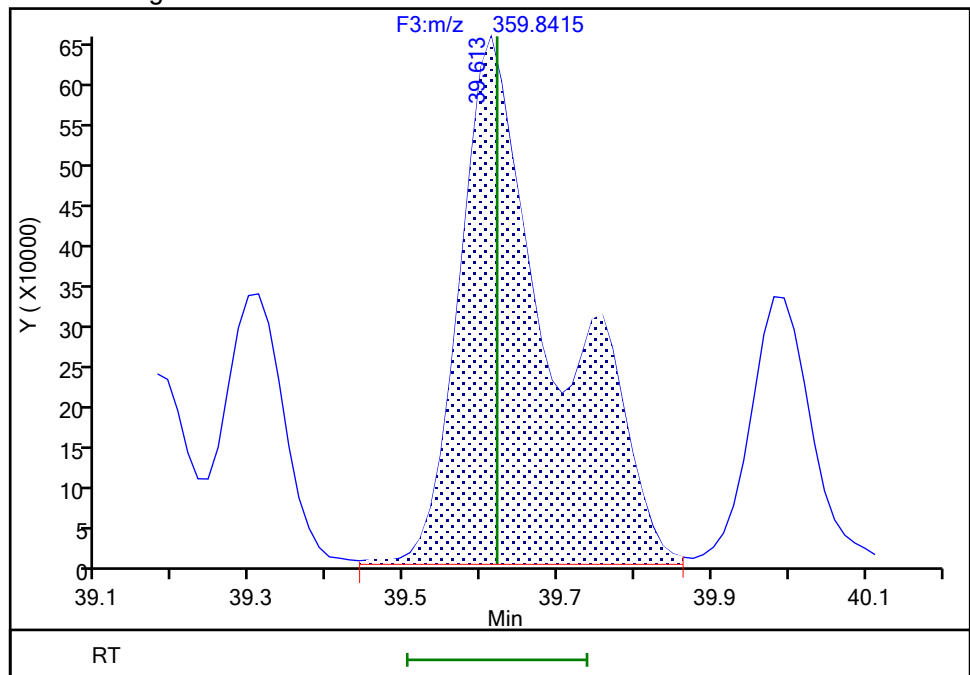
RT: 39.61
Area: 4053869
Amount: 136.6256
Amount Units: pg/ul

Processing Integration Results



RT: 39.61
Area: 5630481
Amount: 189.2108
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 14:37:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Instrument ID: D2D

Lims ID: LCS 140-87206/15-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

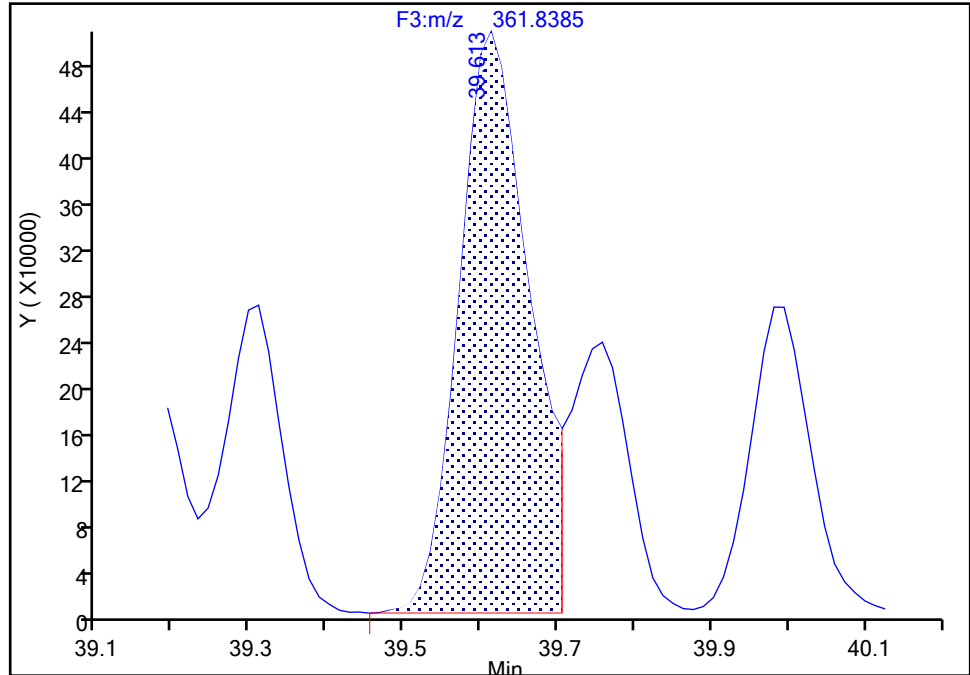
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

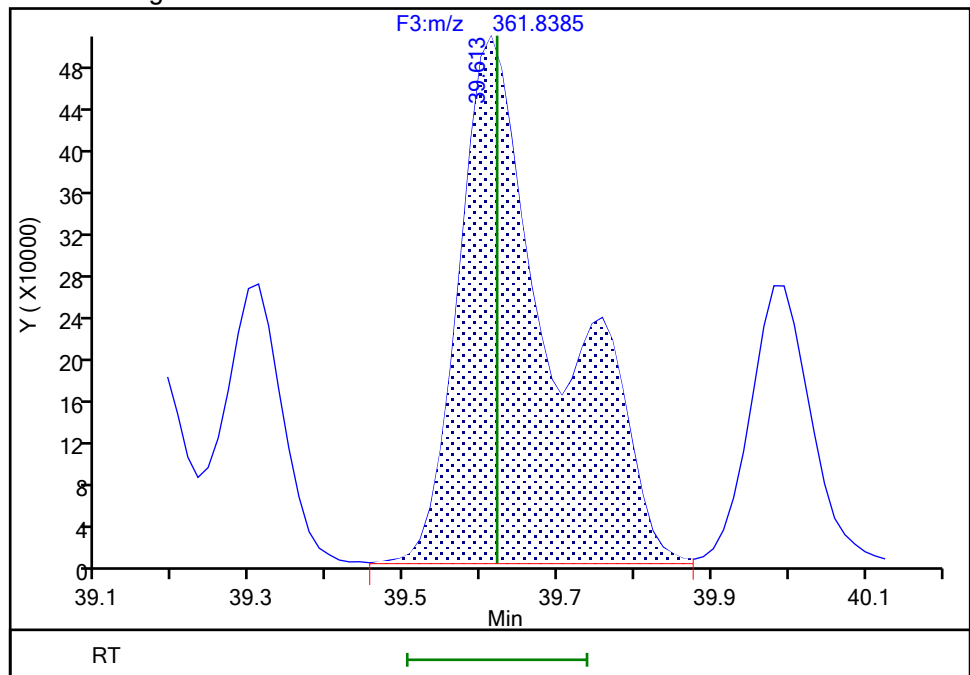
RT: 39.61
Area: 3211825
Amount: 136.6256
Amount Units: pg/ul

Processing Integration Results



RT: 39.61
Area: 4431671
Amount: 189.2108
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 14:37:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

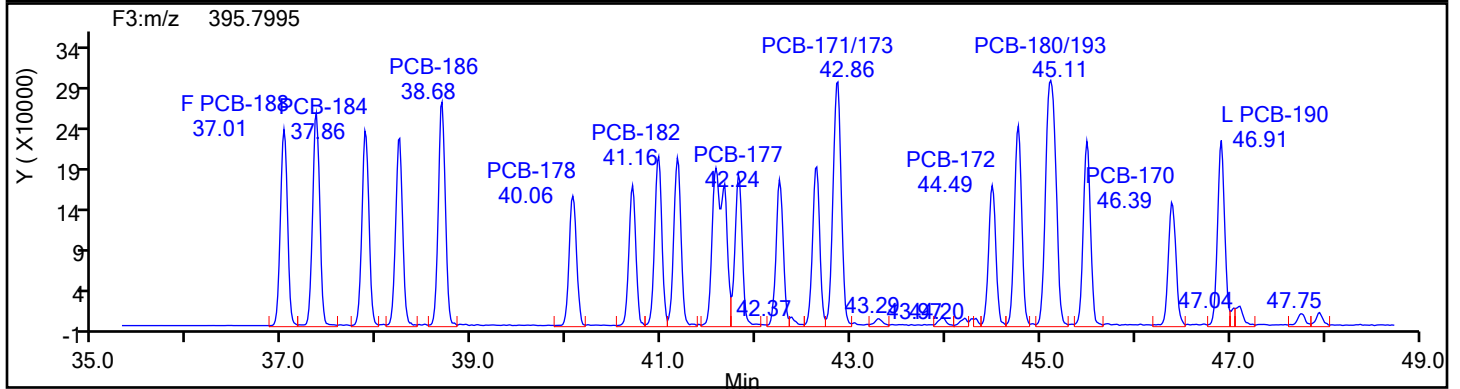
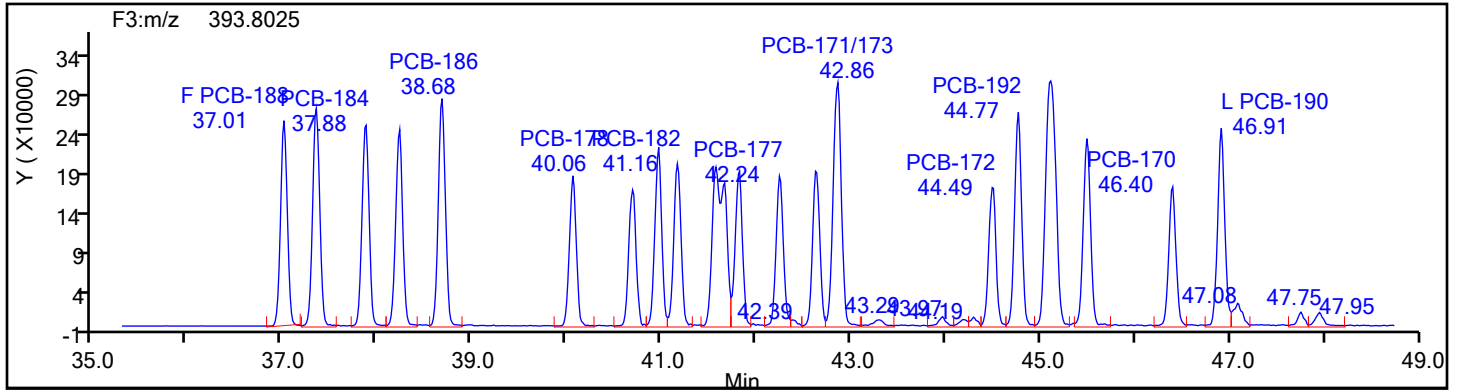
Worklist#: 87502

Sample Line#: 2

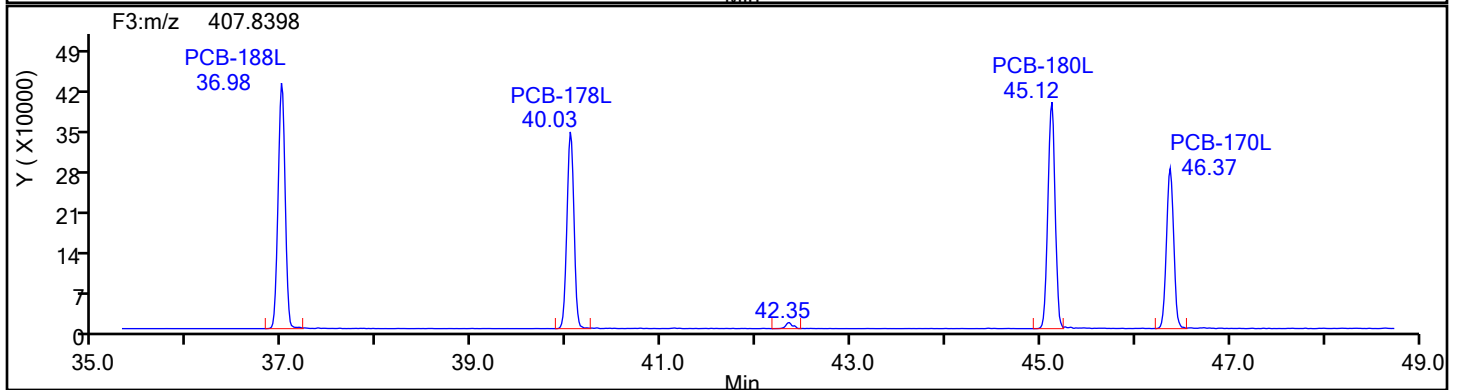
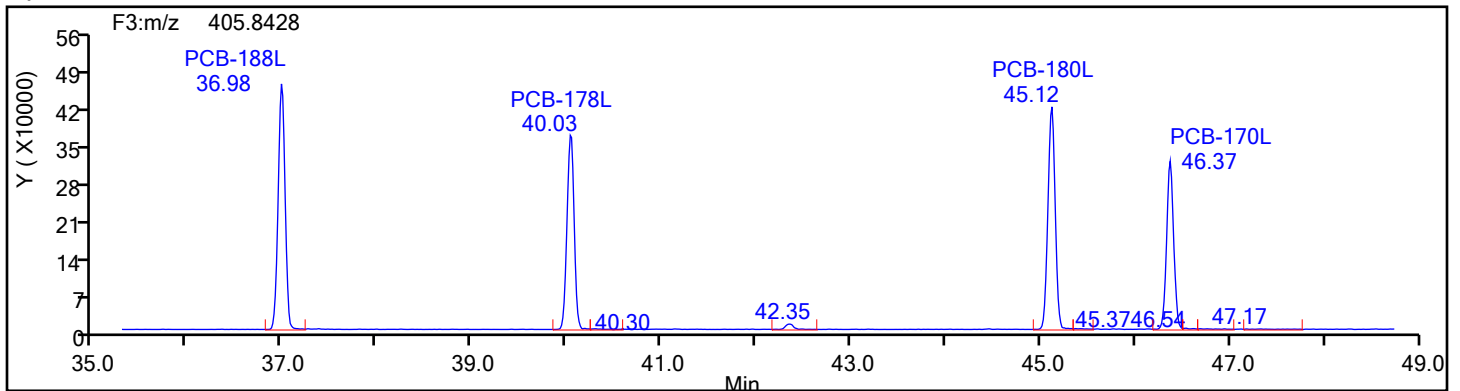
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

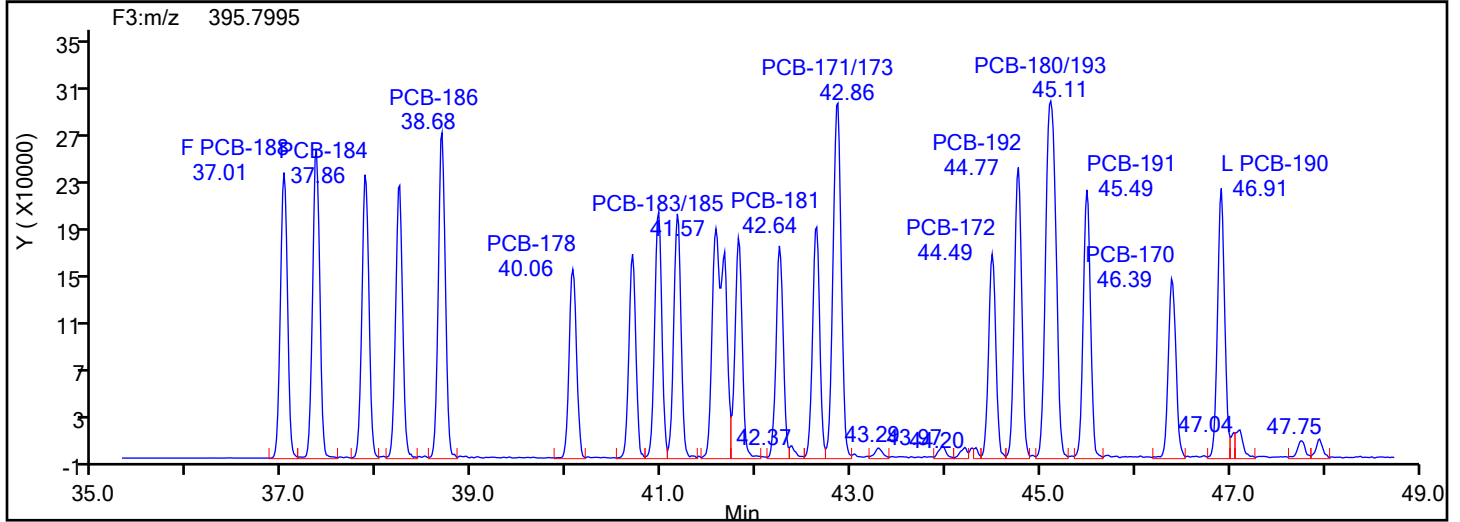
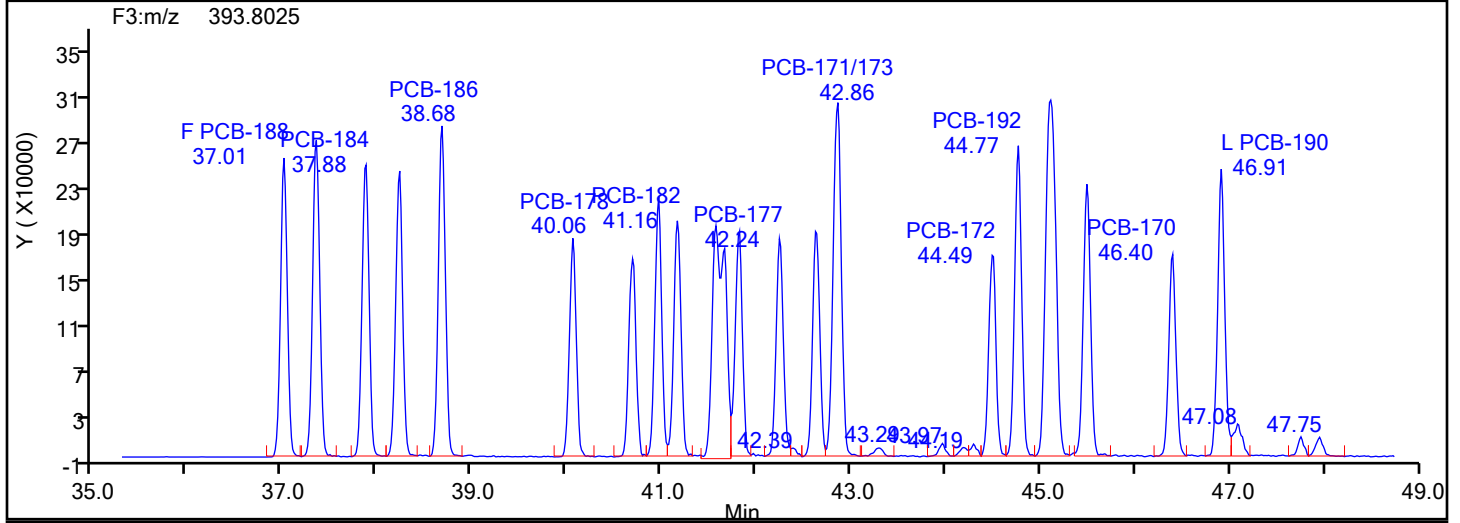
Worklist#: 87502

Sample Line#: 2

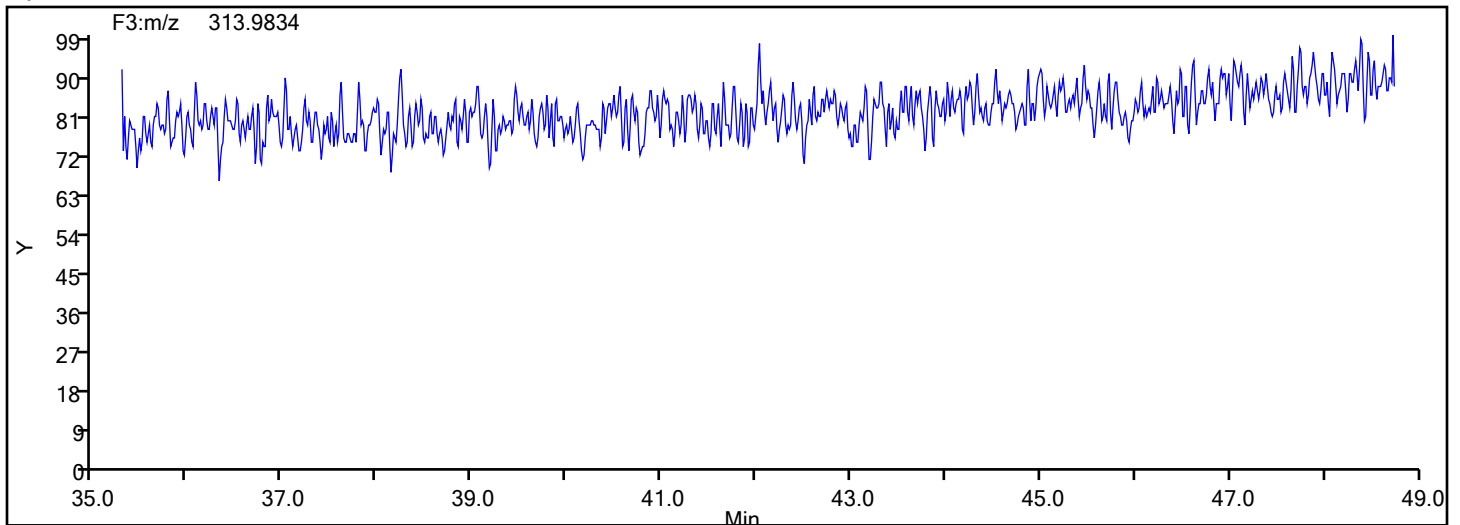
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

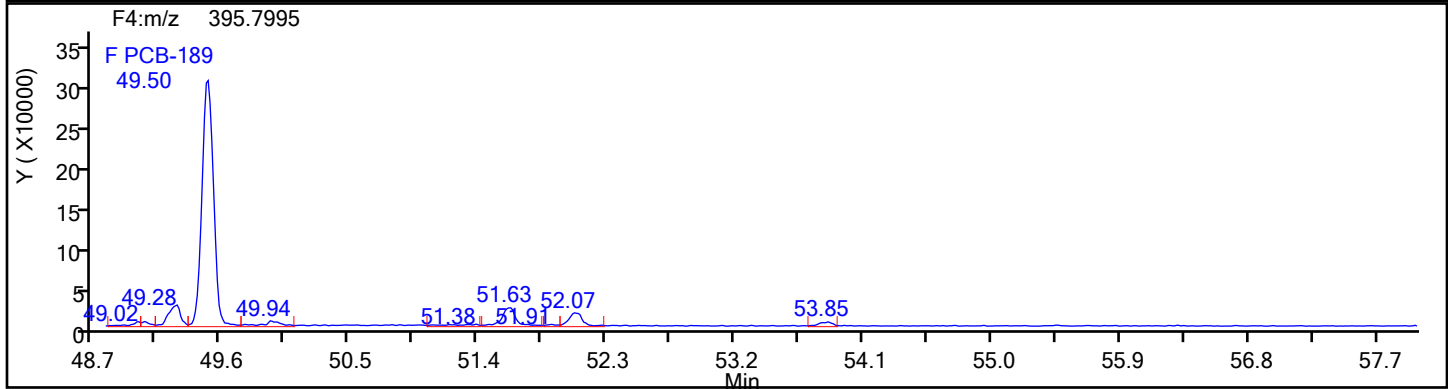
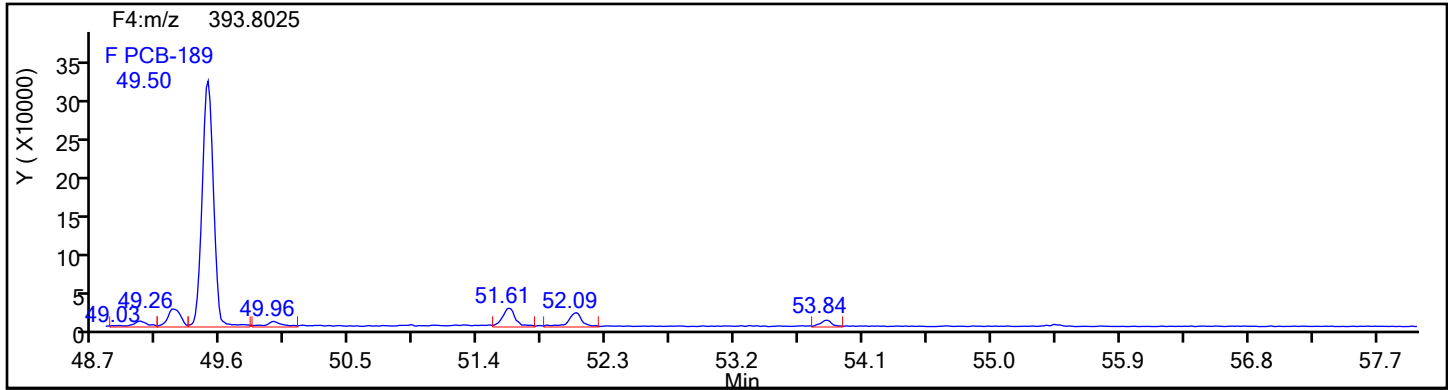
Worklist#: 87502

Sample Line#: 2

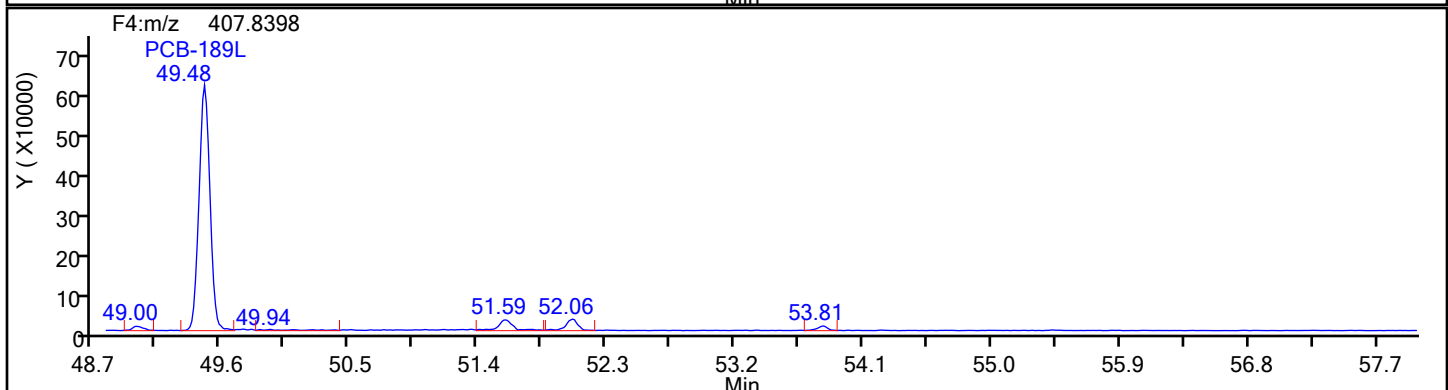
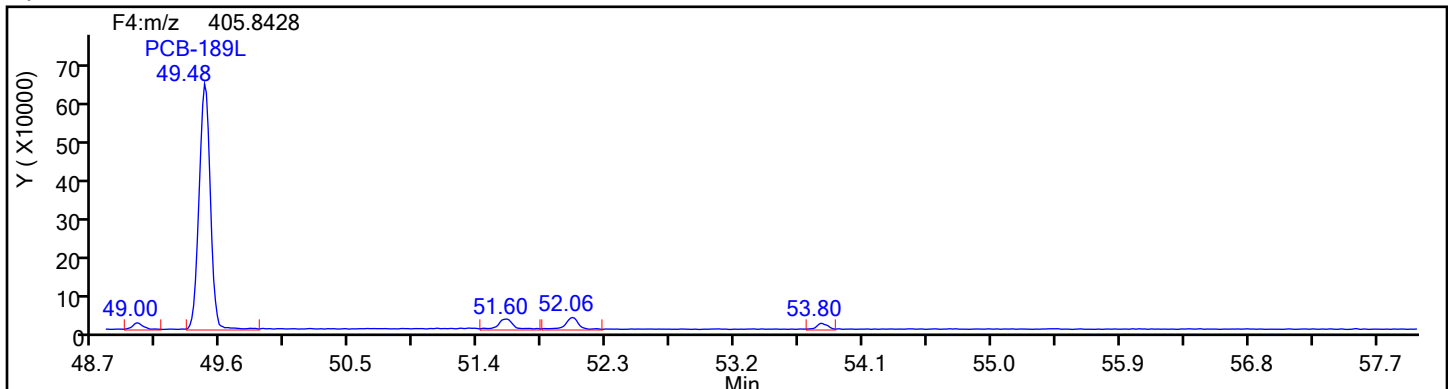
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

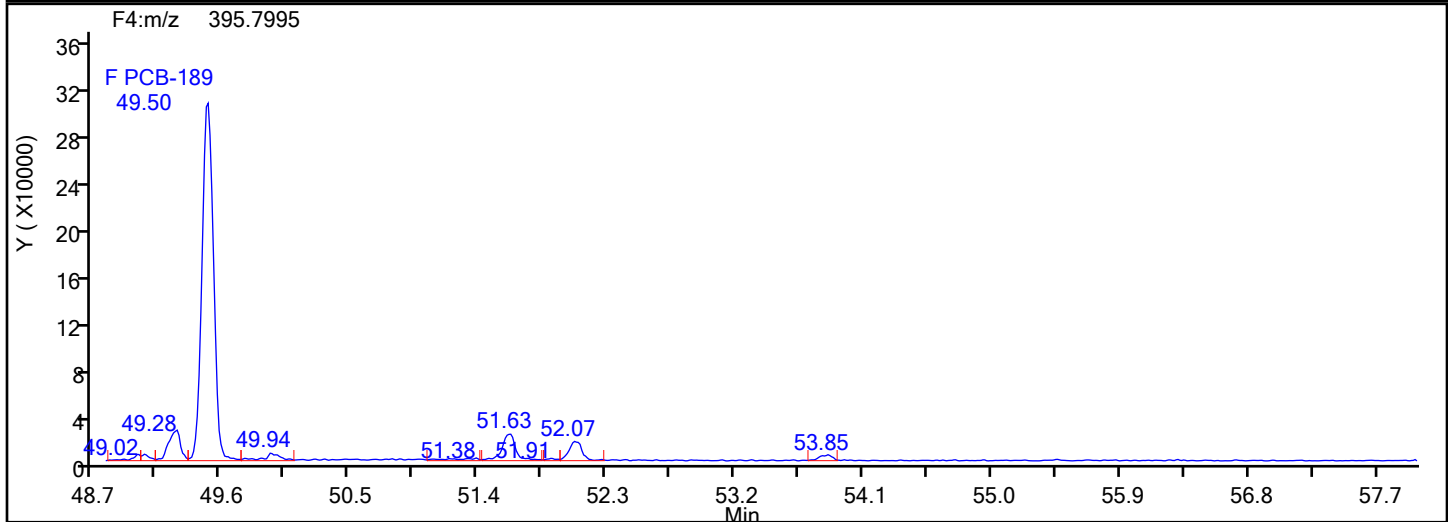
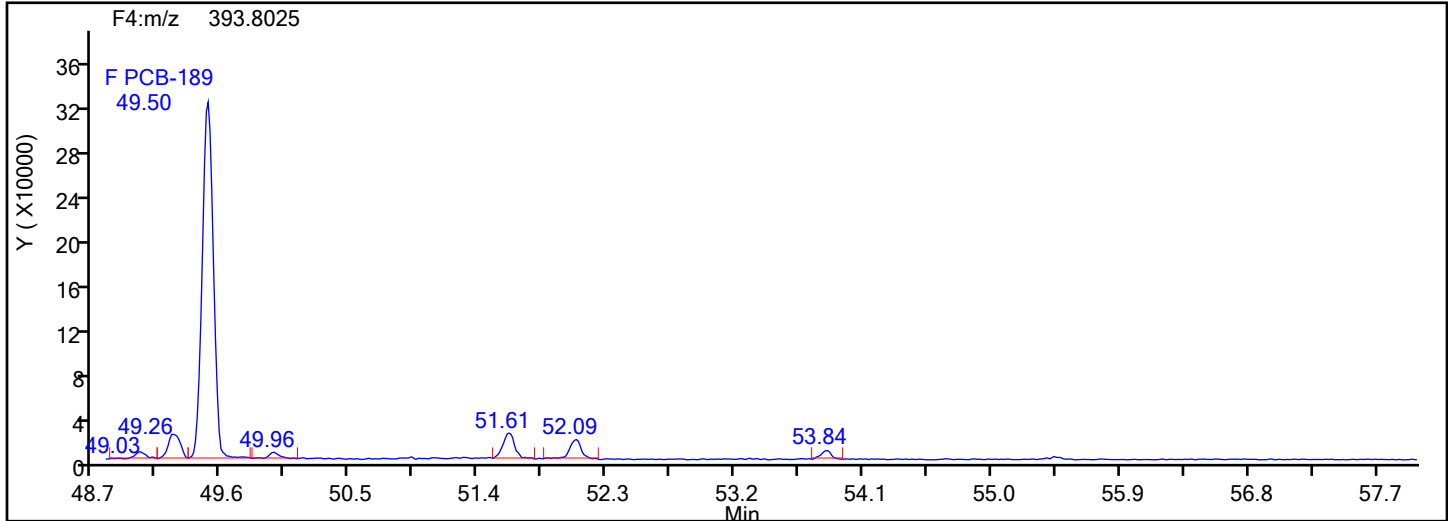
Worklist#: 87502

Sample Line#: 2

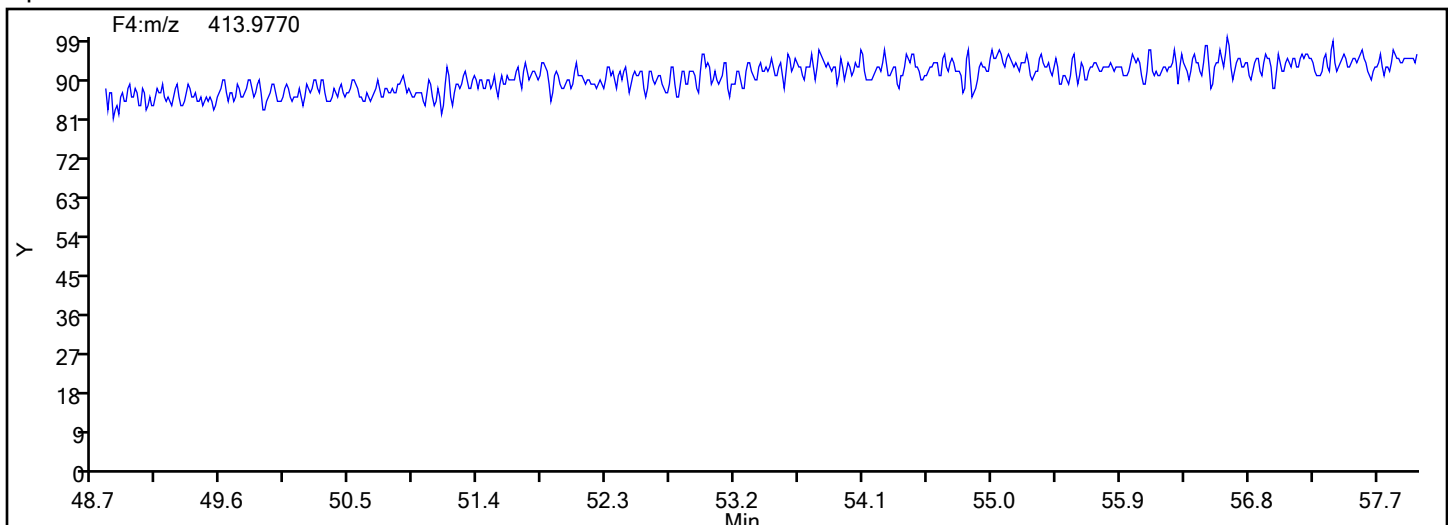
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

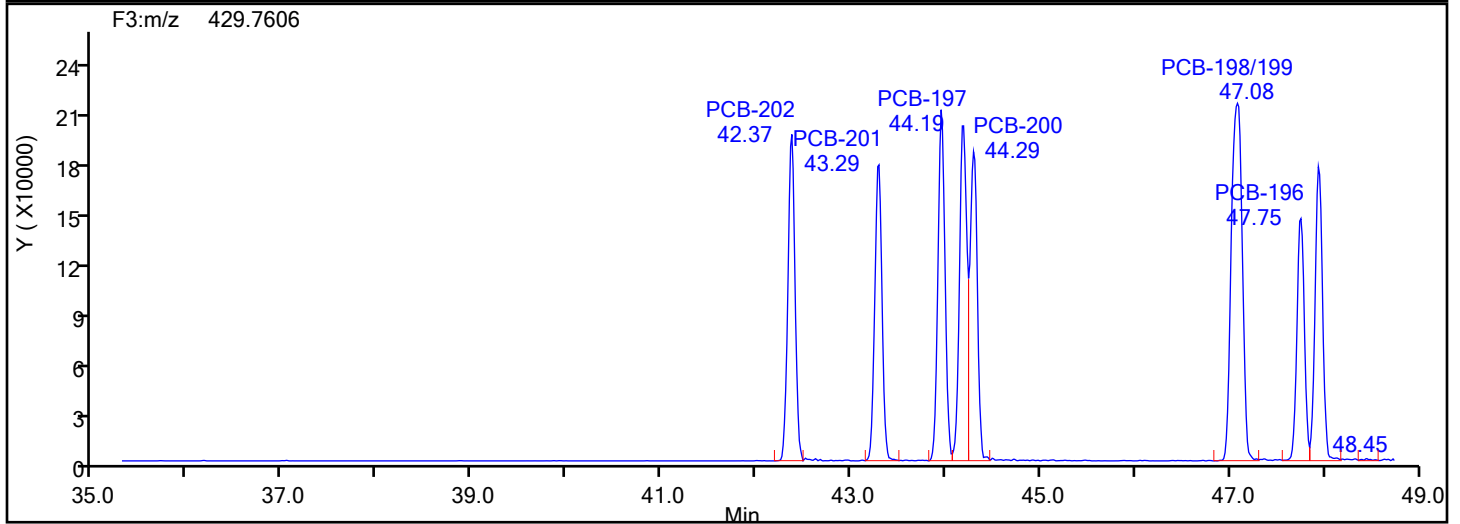
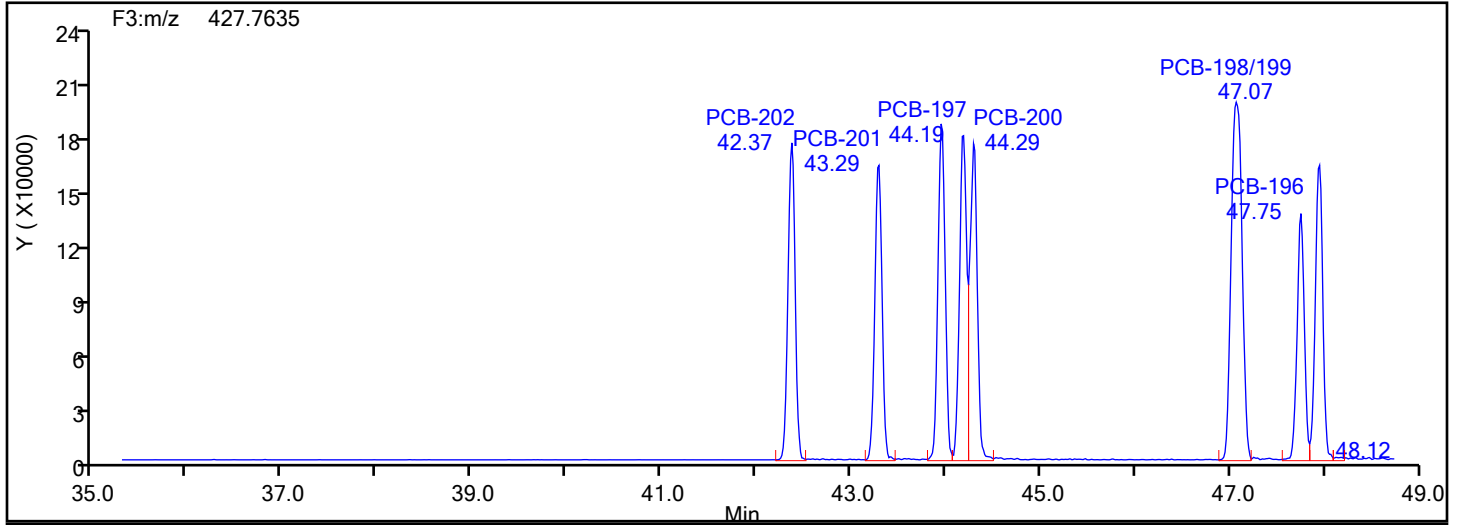
Worklist#: 87502

Sample Line#: 2

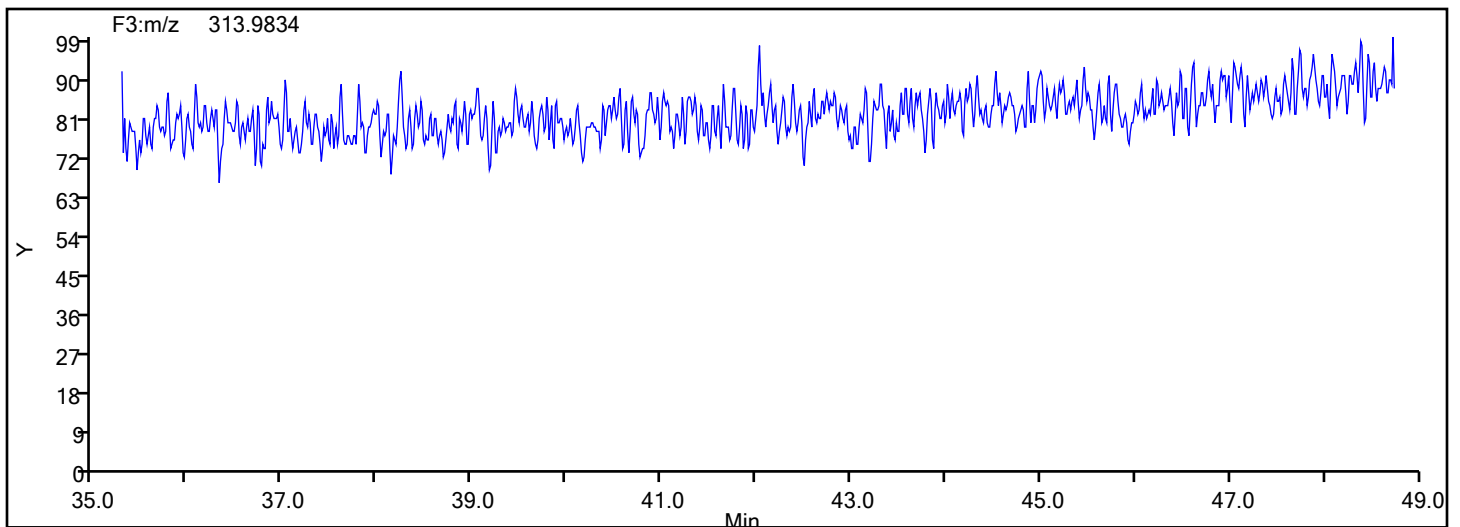
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

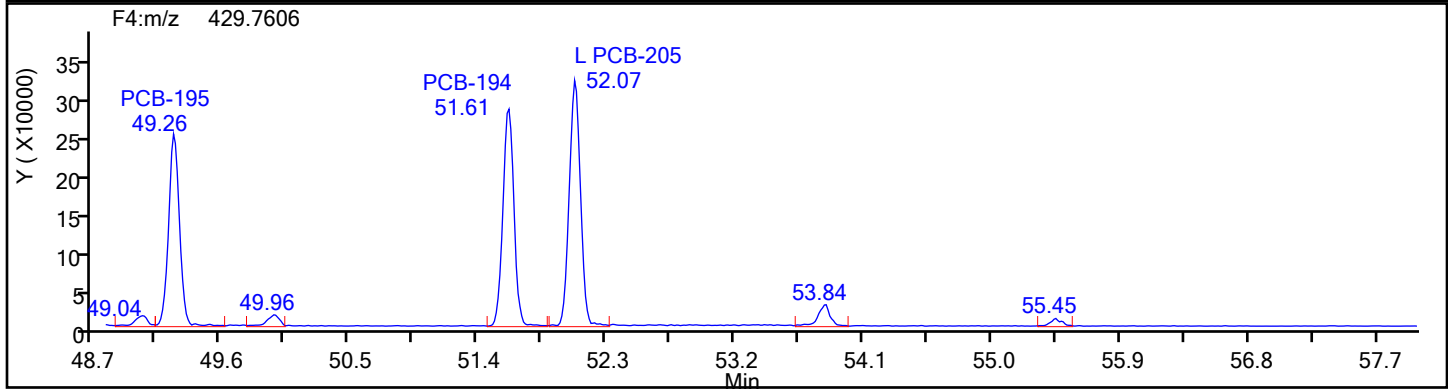
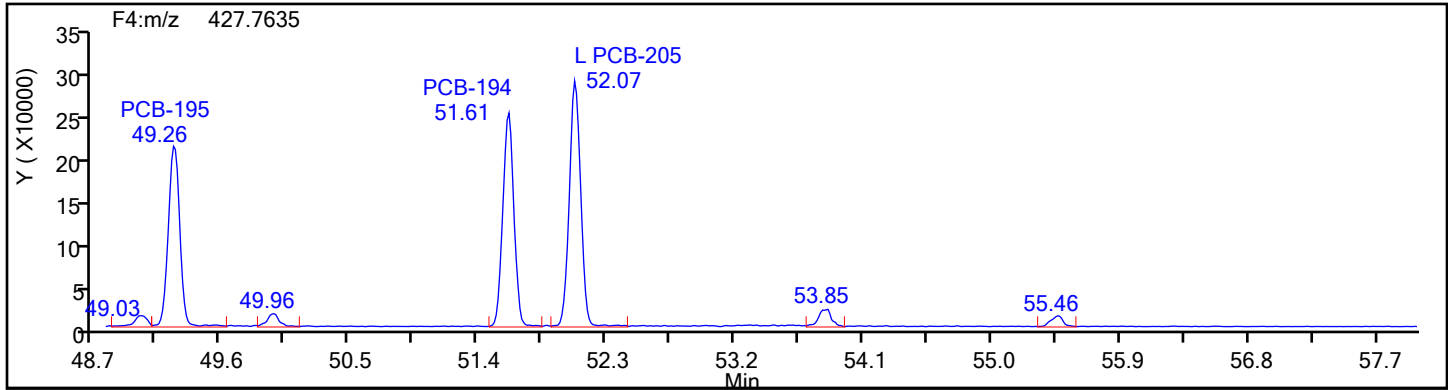
Worklist#: 87502

Sample Line#: 2

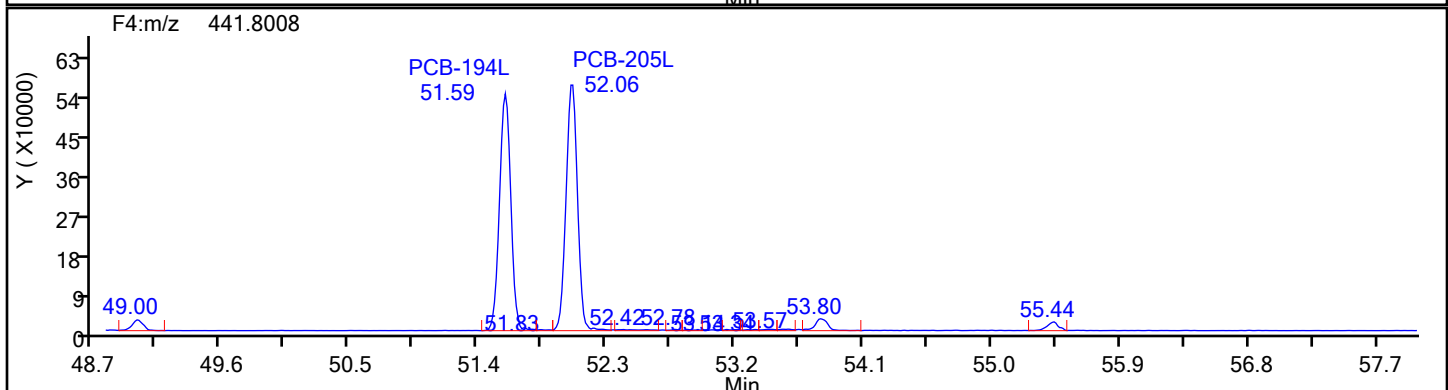
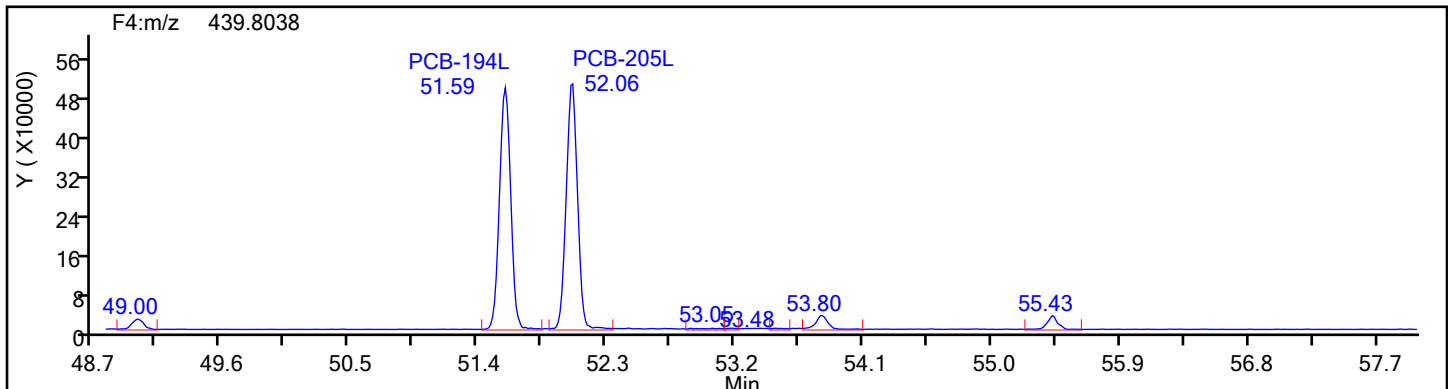
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

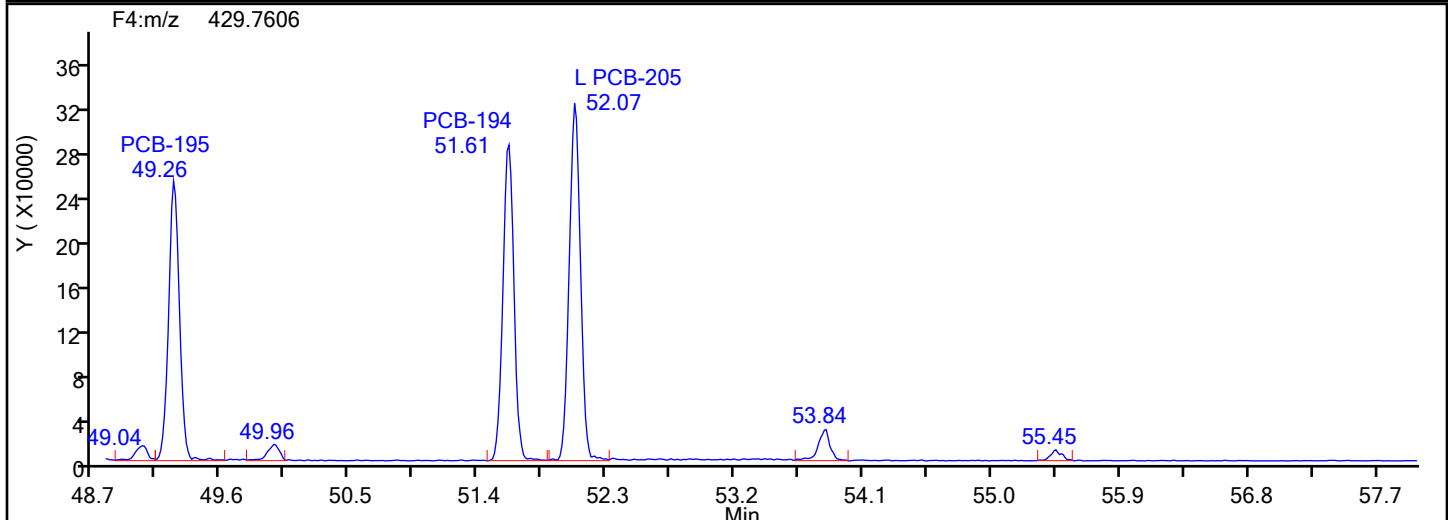
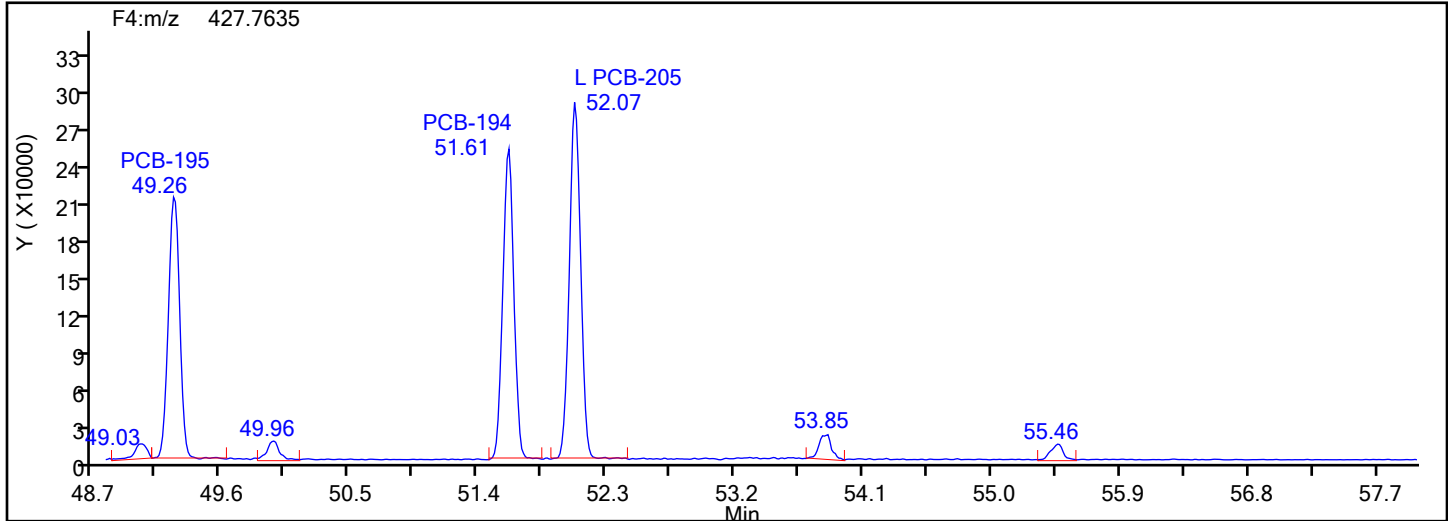
Worklist#: 87502

Sample Line#: 2

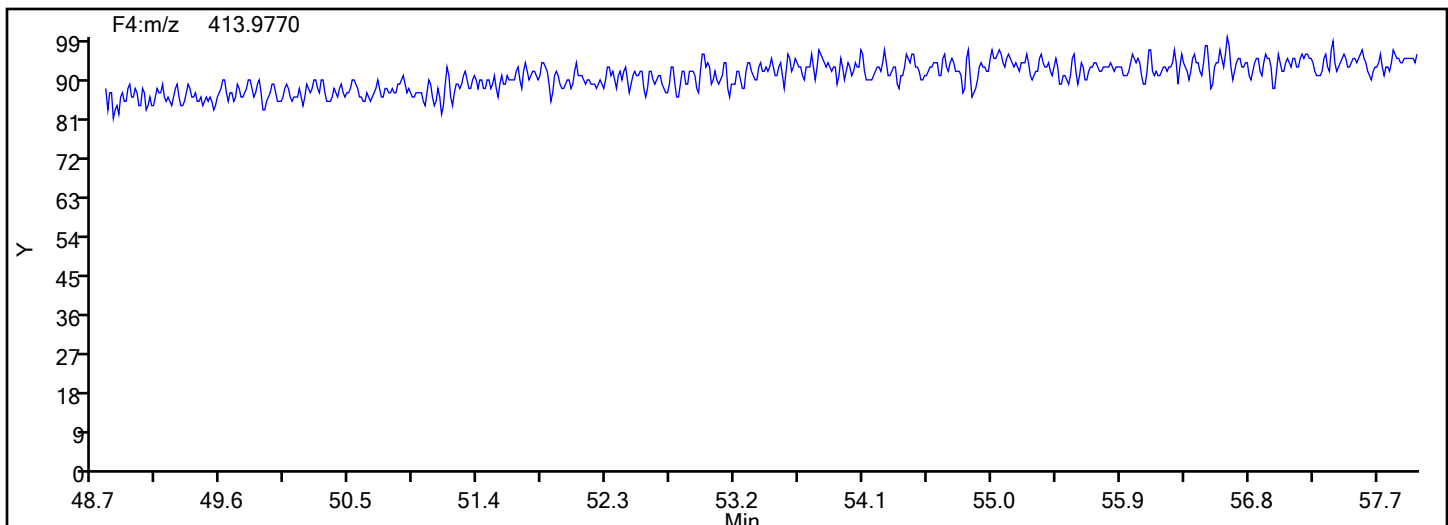
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

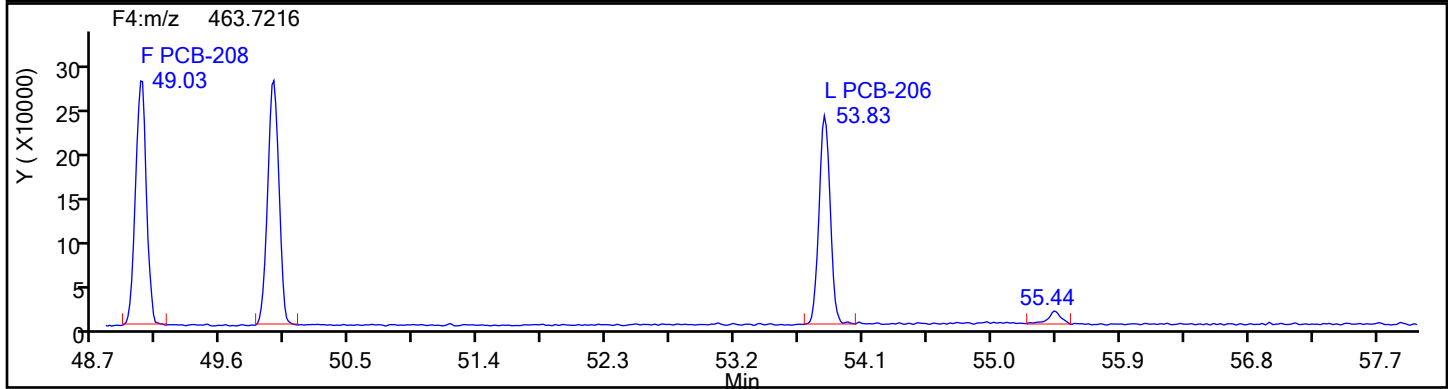
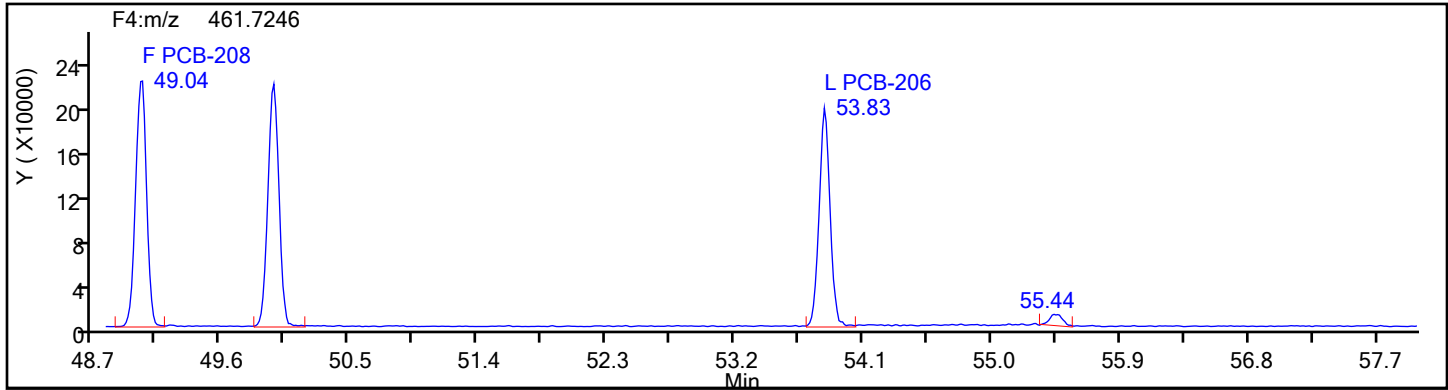
Worklist#: 87502

Sample Line#: 2

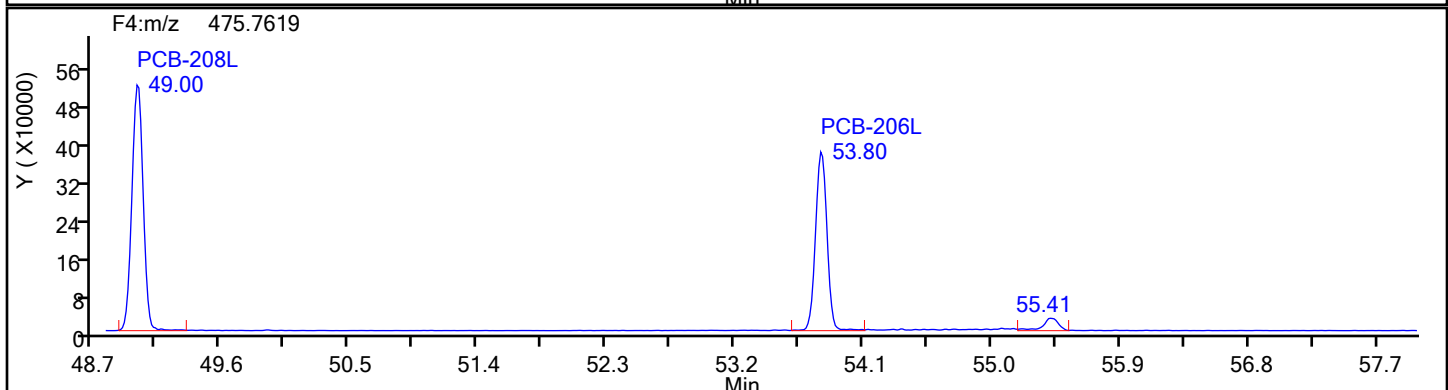
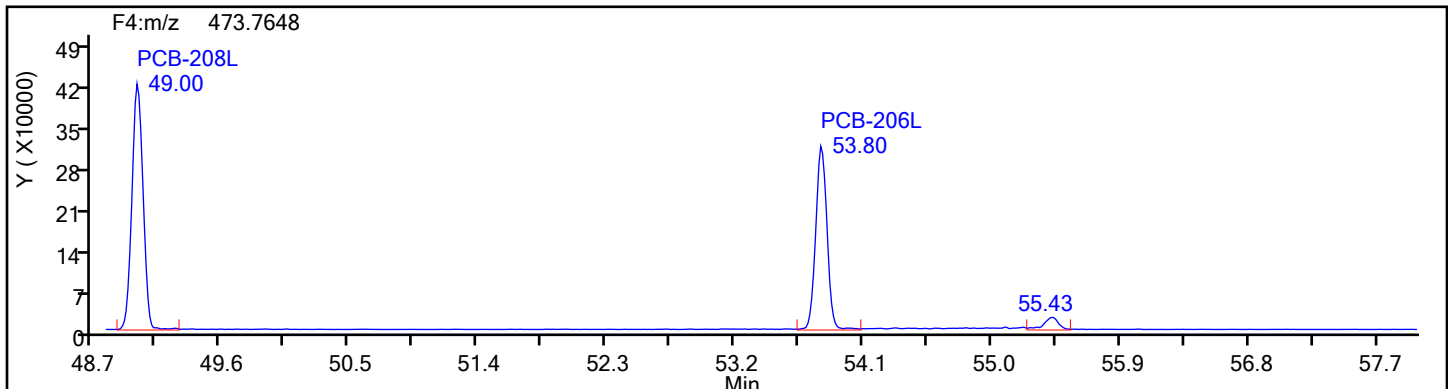
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

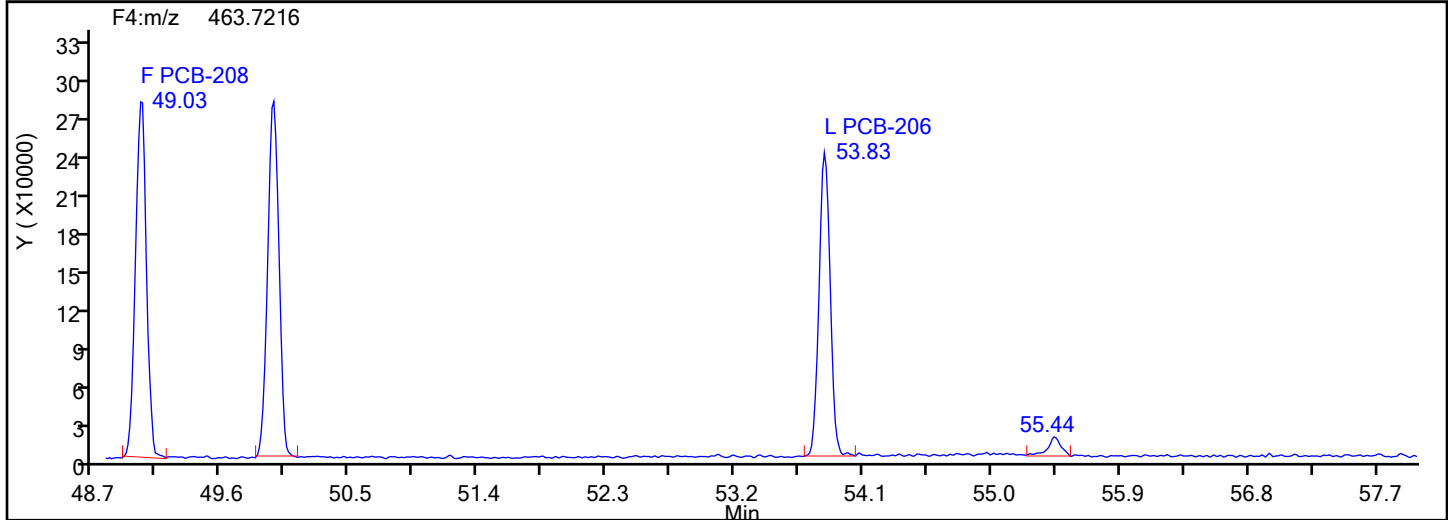
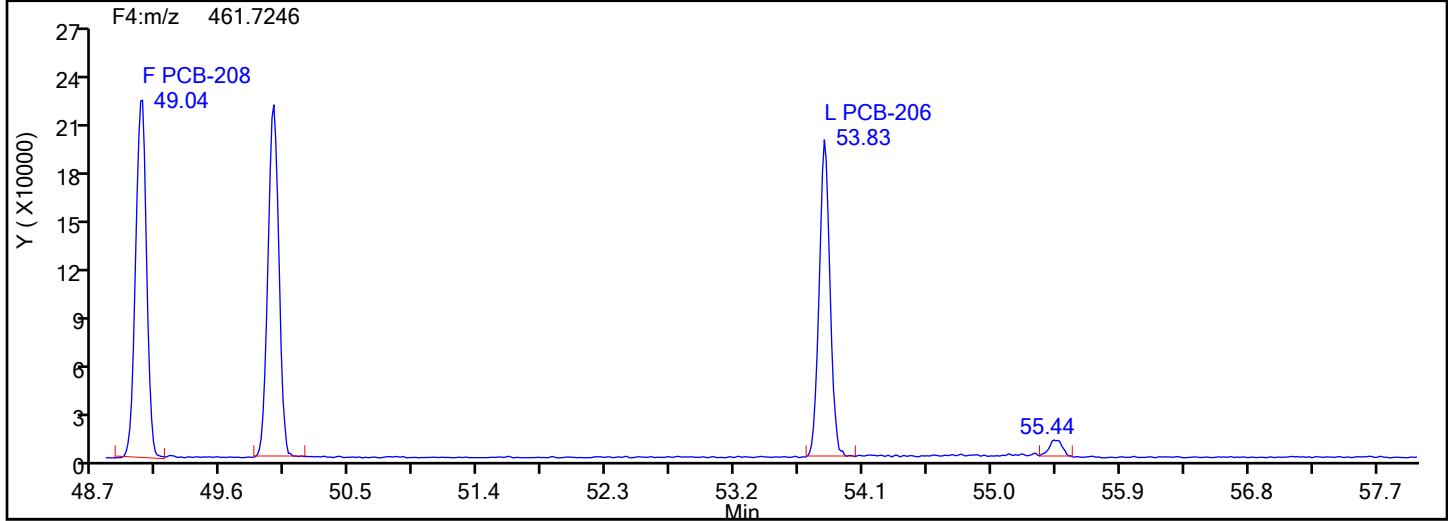
Worklist#: 87502

Sample Line#: 2

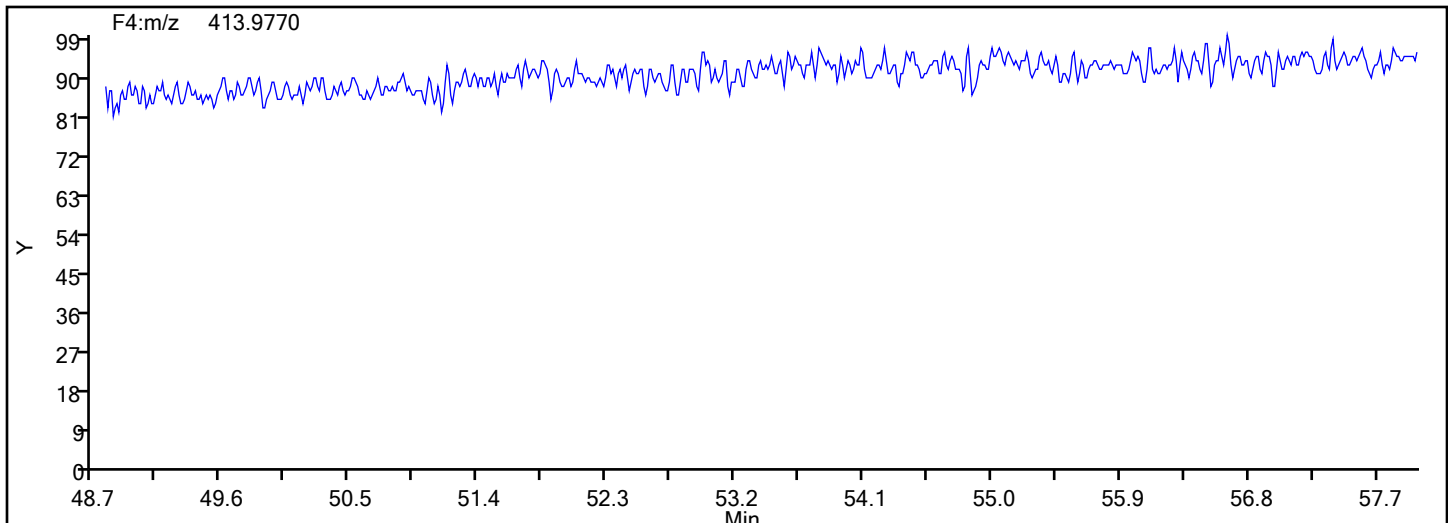
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

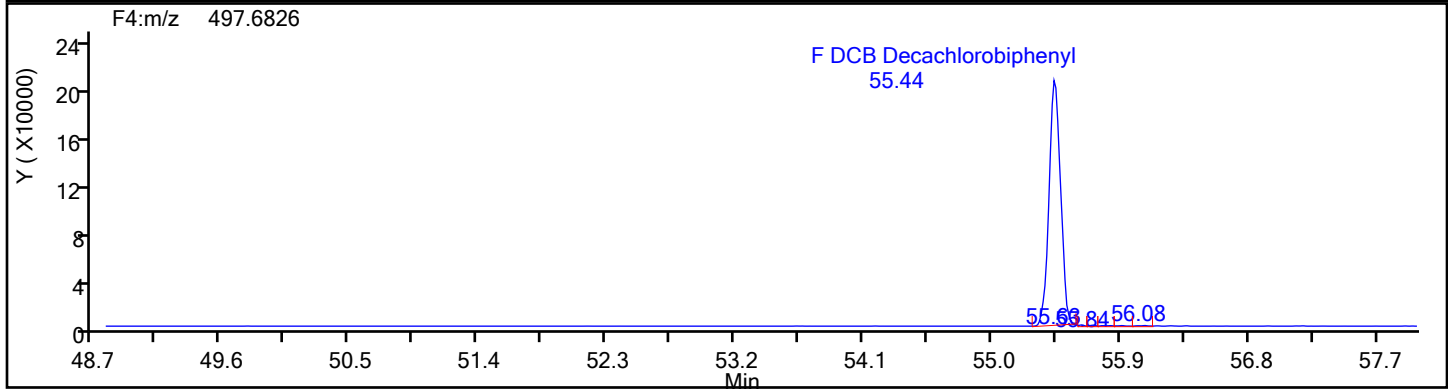
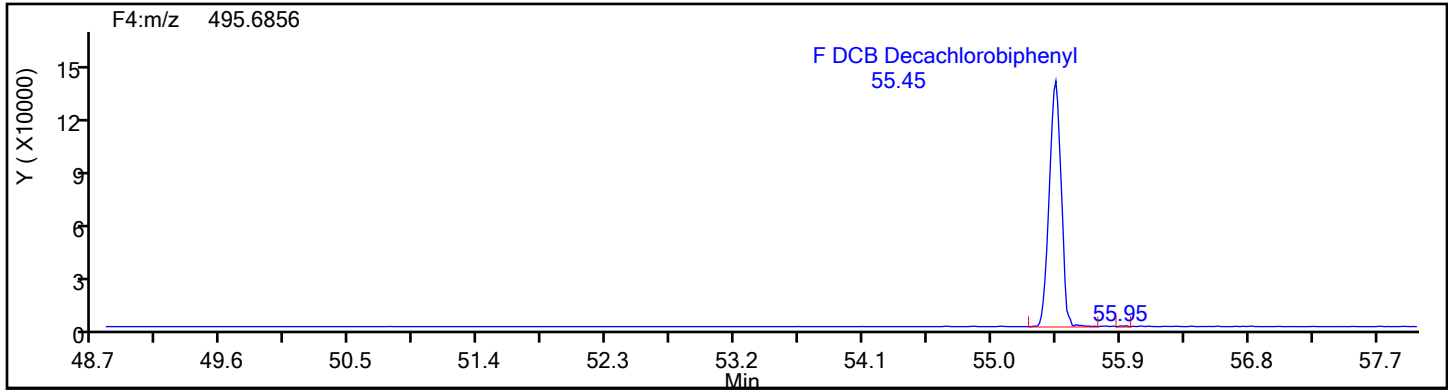
Worklist#: 87502

Sample Line#: 2

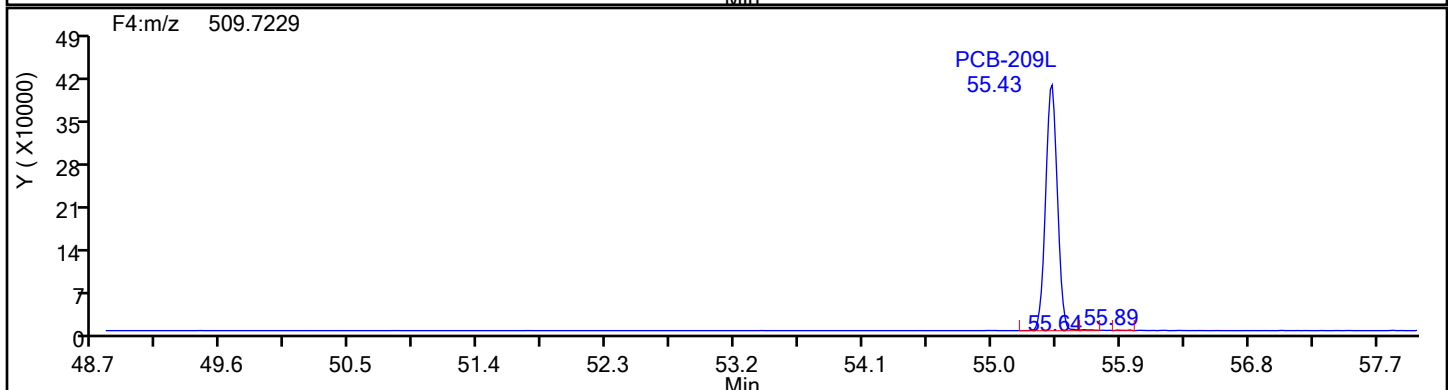
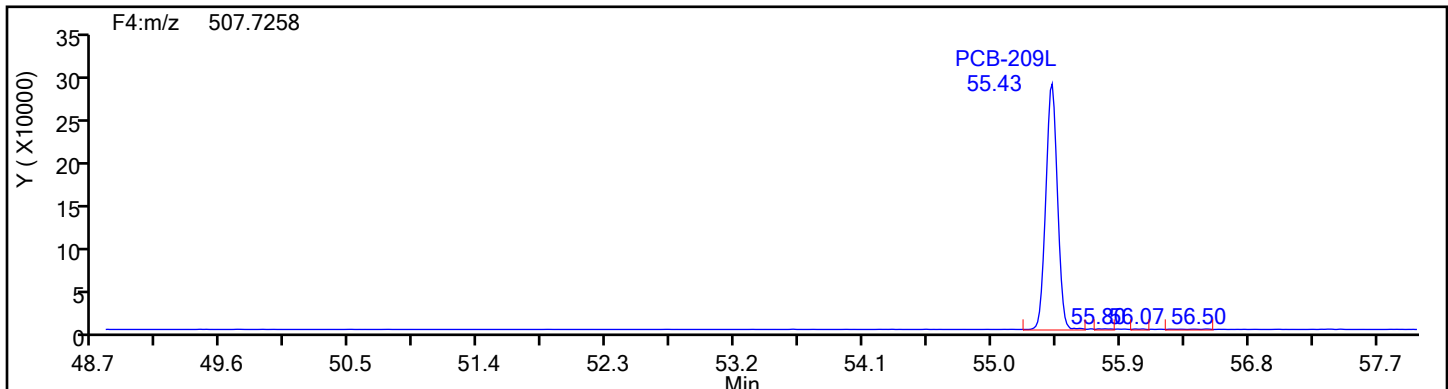
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d

Injection Date: 11-Jun-2024 11:16:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

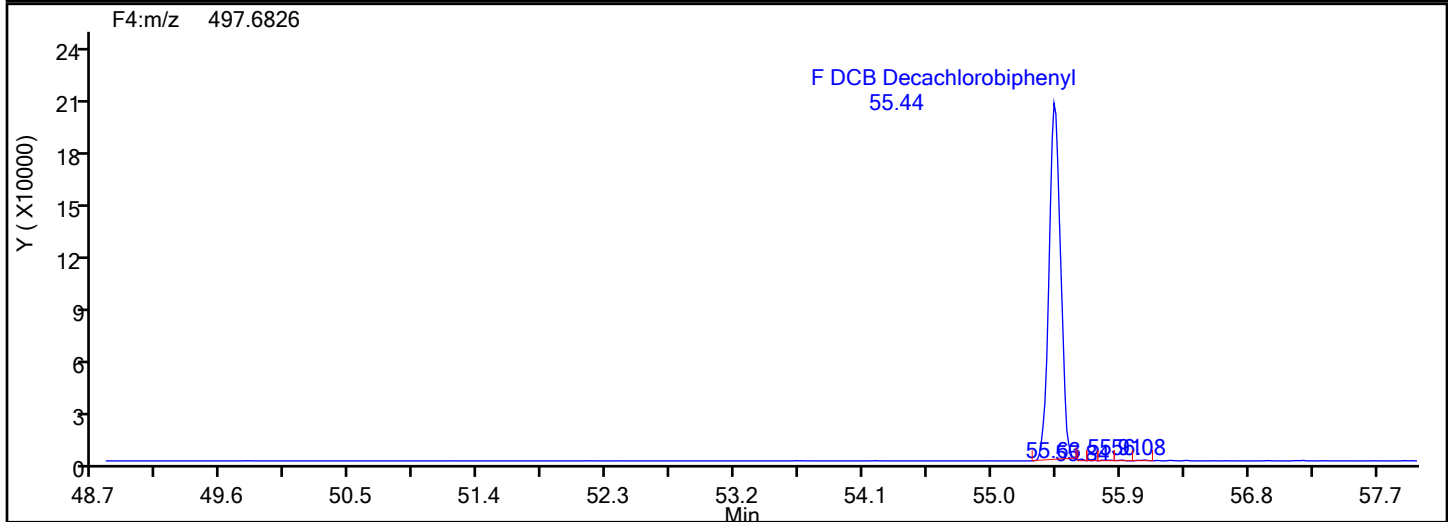
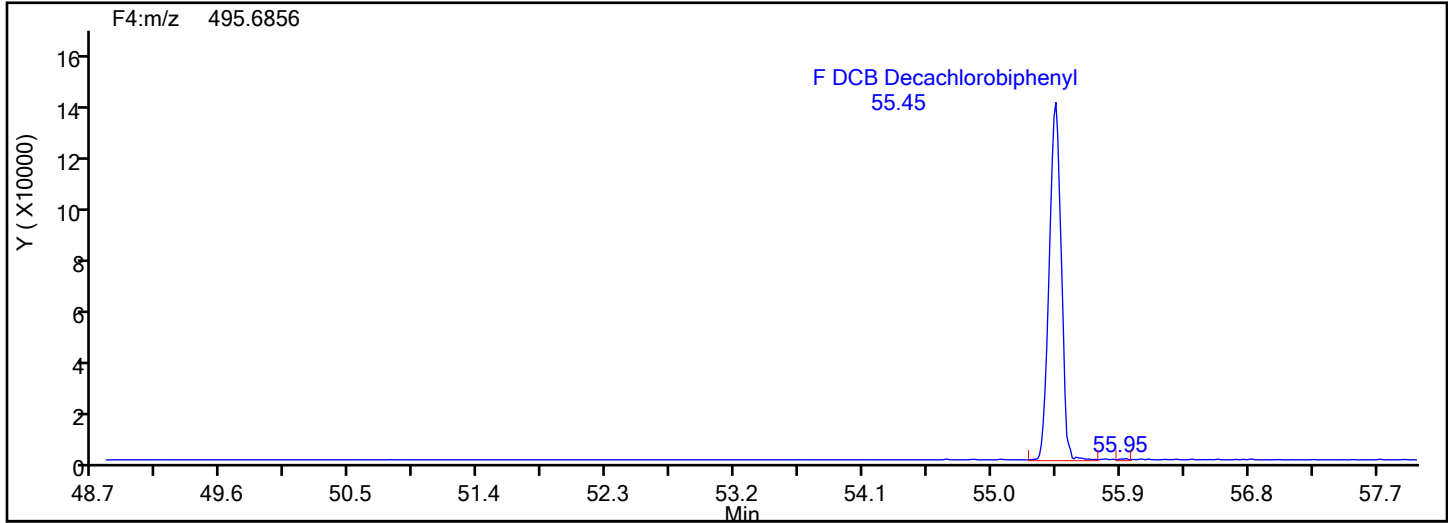
Worklist#: 87502

Sample Line#: 2

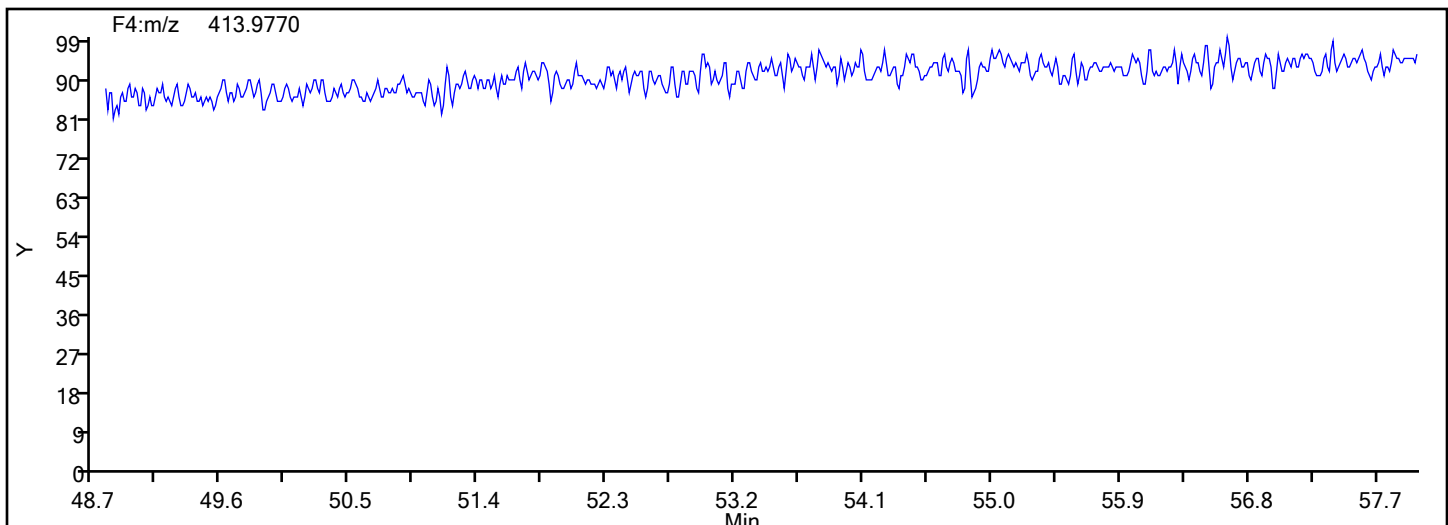
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcs140-87206-15-b.d
Lims ID: LCS 140-87206/15-B
Client ID:
Sample Type: LCS
Inject. Date: 11-Jun-2024 11:16:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-002
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 11-Jun-2024 14:41:20 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1603

First Level Reviewer: P0IK

Date: 11-Jun-2024 14:41:20

Compound	Amount Added	Amount Recovered	% Rec.
PCB-28L	100.0	71.8	71.83
PCB-111L	100.0	78.8	78.79
PCB-178L	100.0	82.9	82.88

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 140-87206/16-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcsd140-87206-16-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/11/2024 12:17</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	14.87		0.600	0.132	0.0164
37680-65-2	PCB-18	30.11	C	0.600	0.285	0.0127
7012-37-5	PCB-28	27.30	C20	0.600	0.252	0.182
41464-39-5	PCB-44	39.82	C	0.900	0.390	0.187
35693-99-3	PCB-52	14.01		0.300	0.132	0.198
32598-10-0	PCB-66	14.82		0.300	0.120	0.145
32598-13-3	PCB-77	14.19		0.300	0.126	0.161
70362-50-4	PCB-81	14.21		0.300	0.0960	0.176
37680-73-2	PCB-101	44.87	C90	0.900	0.390	0.0235
32598-14-4	PCB-105	13.57		0.300	0.102	0.242
74472-37-0	PCB-114	14.79		0.300	0.165	0.256
31508-00-6	PCB-118	13.65		0.300	0.183	0.223
65510-44-3	PCB-123	14.51		0.300	0.171	0.260
57465-28-8	PCB-126	17.09		0.300	0.123	0.268
38380-07-3	PCB-128	30.08	C	0.600	0.204	0.154
35065-28-2	PCB-138	55.38	C129	1.20	0.510	0.160
35065-27-1	PCB-153	28.17	C	0.600	0.249	0.139
38380-08-4	PCB-156	28.65	C	0.600	0.255	0.169
69782-90-7	PCB-157	28.65	C156	0.600	0.255	0.169
52663-72-6	PCB-167	14.77		0.300	0.180	0.115
32774-16-6	PCB-169	16.20		0.300	0.123	0.109
35065-30-6	PCB-170	13.56		0.300	0.132	0.0105
35065-29-3	PCB-180	30.05	C	0.600	0.204	0.00849
52663-68-0	PCB-187	15.24		0.300	0.126	0.00899
39635-31-9	PCB-189	15.26		0.300	0.147	0.0464
52663-78-2	PCB-195	15.09		0.300	0.159	0.0851
40186-72-9	PCB-206	14.10		0.300	0.171	0.0888
2051-24-3	PCB-209	13.81		0.300	0.138	0.0249

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36689-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 140-87206/16-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcsd140-87206-16-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>05/31/2024 12:09</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/11/2024 12:17</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>87502</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87206</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	74		15-145
208263-77-8	PCB-3L	71		15-145
234432-86-1	PCB-4L	76		15-145
208263-67-6	PCB-15L	75		15-145
234432-87-2	PCB-19L	70		15-145
208263-79-0	PCB-37L	78		15-145
234432-88-3	PCB-54L	74		15-145
105600-23-5	PCB-77L	82		40-145
208461-24-9	PCB-81L	78		40-145
234432-89-4	PCB-104L	79		40-145
208263-62-1	PCB-105L	86		40-145
208263-63-2	PCB-114L	84		40-145
104130-40-7	PCB-118L	84		40-145
208263-64-3	PCB-123L	82		40-145
208263-65-4	PCB-126L	88		40-145
234432-90-7	PCB-155L	82		40-145
208263-68-7	PCB-156L	88	C	40-145
235416-30-5	PCB-157L	88	C156	40-145
208263-69-8	PCB-167L	86		40-145
208263-70-1	PCB-169L	90		40-145
160901-80-4	PCB-170L	92		40-145
234432-91-8	PCB-188L	84		40-145
208263-73-4	PCB-189L	87		40-145
105600-26-8	PCB-202L	87		40-145
234446-64-1	PCB-205L	91		40-145
208263-75-6	PCB-206L	98		40-145
234432-92-9	PCB-208L	96		40-145
105600-27-9	PCB-209L	106		40-145

Lab Name:	Eurofins Knoxville	Job No.:	140-36689-1
SDG No.:			
Client Sample ID:		Lab Sample ID:	LCSD 140-87206/16-B
Matrix:	Air	Lab File ID:	lcsd140-87206-16-b.d
Analysis Method:	23	Date Collected:	
Extract. Method:	Combined Prep	Date Extracted:	05/31/2024 12:09
Sample wt/vol:	1(Sample)	Date Analyzed:	06/11/2024 12:17
Con. Extract Vol.:	30 (mL)	Dilution Factor:	1
Injection Volume:	1 (uL)	GC Column:	SPB-Octyl ID: 0.25 (mm)
% Moisture:		GPC Cleanup: (Y/N)	N
% Solids:		Level:	(low/med) Low
Cleanup Factor:		Units:	ng/Sample
Analysis Batch No.:	87502	Instrument ID:	Excalibur D2D DFS
Preparation Batch No.:	87206		

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	73		15-145
235416-29-2	PCB-111L	79		40-145
232919-67-4	PCB-178L	84		40-145

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d
 Lims ID: LCSD 140-87206/16-B
 Client ID:
 Sample Type: LCSD
 Inject. Date: 11-Jun-2024 12:17:00 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033026-003
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 11-Jun-2024 14:58:57 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1603

First Level Reviewer: P0IK

Date: 11-Jun-2024 14:58:57

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					150.5	150.5	0.1710	0.1710		
D PCB-1L	11:33	8150121	3.10	1.6108	74.2	74.2	0.2669	0.2669	74.23	
D PCB-3L	13:41	7713667	3.19	1.5891	71.2	71.2	0.2705	0.2705	71.21	
PCB-1	11:33	4922845	3.18	1.2191	49.5	49.5	0.1532	0.1532	99.09	
PCB-2	13:32	4752616	3.22	1.1805	50.8	50.8	0.1737	0.1737	102	
PCB-3	13:42	4727833	3.10	1.2206	50.2	50.2	0.1861	0.1861	100	
S Total Dichlorobiphenyls					578.7	578.7	0.0631	0.0631		
D PCB-4L	13:57	3353365	1.66	0.6475	76.0	76.0	0.1616	0.1616	75.98	
* PCB-9L	15:54	6816170	1.60		100.0	100.0				
D PCB-15L	19:48	5493691	1.66	1.0789	74.7	74.7	0.0970	0.0970	74.70	
PCB-4	13:58	2073579	1.56	1.2818	48.2	48.2	0.0755	0.0755	96.48	
PCB-10	14:08	2735782	1.61	1.3149	47.0	47.0	0.0660	0.0660	94.07	
PCB-9	15:55	3106312	1.61	1.4224	49.4	49.4	0.0610	0.0610	98.73	
PCB-7	16:05	2829023	1.56	1.4134	45.2	45.2	0.0614	0.0614	90.50	
PCB-6	16:20	3330376	1.58	1.5421	48.8	48.8	0.0562	0.0562	97.64	
PCB-5	16:38	2693351	1.58	1.3395	45.5	45.5	0.0647	0.0647	90.91	
PCB-8	16:45	3483979	1.58	1.5889	49.6	49.6	0.0546	0.0546	99.14	
PCB-14	18:22	2978034	1.57	1.4025	48.0	48.0	0.0618	0.0618	96.01	
PCB-11	19:13	3203689	1.56	1.2951	55.9	55.9	0.0670	0.0670	112	
PCB-12	19:31	5723965	1.57	1.3358	96.9	96.9	0.0649	0.0649	96.87	
PCB-13 (C12)	19:31	5723965	1.57	1.3358	96.9	96.9	0.0649	0.0649	96.87	
PCB-15	19:50	3130215	1.59	1.2903	44.2	44.2	0.0609	0.0609	88.32	
S Total Trichlorobiphenyls					1171.9	1171.9	0.4247	0.4247		
D PCB-19L	17:02	2136192	1.09	0.6285	70.4	70.4	0.5729	0.5729	70.43	
* PCB-32L	20:16	4825587	1.08		100.0	100.0				
* PCB-31L	22:32	11131171	1.04		100.0	100.0				
\$ PCB-28L	22:49	8494121	1.05	1.0494	72.7	72.7	0.1654	0.1654	72.72	
D PCB-37L	26:50	7561981	1.07	0.8749	77.6	77.6	0.1984	0.1984	77.65	
PCB-19	17:03	1396391	1.05	1.2809	51.0	51.0	0.0585	0.0585	102	
PCB-18	18:53	3784559	1.05	1.7652	100.4	100.4	0.0425	0.0425	100	
PCB-30 (C18)	18:53	3784559	1.05	1.7652	100.4	100.4	0.0425	0.0425	100	
PCB-17	19:20	1301265	1.10	1.2430	49.0	49.0	0.0603	0.0603	98.01	
PCB-27	19:33	1812658	1.04	1.8327	46.3	46.3	0.0409	0.0409	92.60	
PCB-24	19:40	1890355	1.03	1.6777	52.7	52.7	0.0447	0.0447	105	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:47	1284370	1.05	1.1286	53.3	53.3	0.0664	0.0664	107	
PCB-32	20:18	2188186	1.04	1.8324	55.9	55.9	0.0409	0.0409	112	
PCB-34	21:33	3696413	1.04	1.1277	43.3	43.3	0.6319	0.6319	86.69	
PCB-23	21:42	3731887	1.02	1.0813	45.6	45.6	0.6590	0.6590	91.28	
PCB-26	22:01	7481769	1.03	1.1255	87.9	87.9	0.6332	0.6332	87.91	
PCB-29 (C26)	22:01	7481769	1.03	1.1255	87.9	87.9	0.6332	0.6332	87.91	
PCB-25	22:15	4642476	1.03	1.2728	48.2	48.2	0.5599	0.5599	96.47	
PCB-31	22:33	4393688	1.04	1.1532	50.4	50.4	0.6179	0.6179	101	
PCB-20	22:52	8064963	1.04	1.1718	91.0	91.0	0.6081	0.6081	91.01	
PCB-28 (C20)	22:52	8064963	1.04	1.1718	91.0	91.0	0.6081	0.6081	91.01	
PCB-21	23:01	8022532	1.03	1.0746	98.7	98.7	0.6631	0.6631	98.73	M
PCB-33 (C21)	23:01	8022532	1.03	1.0746	98.7	98.7	0.6631	0.6631	98.73	M
PCB-22	23:29	4398101	1.03	1.1932	48.7	48.7	0.5972	0.5972	97.48	
PCB-36	25:02	4680387	1.09	1.1071	55.9	55.9	0.6437	0.6437	112	
PCB-39	25:24	4173512	1.06	1.1581	47.7	47.7	0.6153	0.6153	95.31	
PCB-38	25:58	4165574	1.05	1.0843	50.8	50.8	0.6572	0.6572	102	
PCB-35	26:26	4017354	1.04	1.1297	47.0	47.0	0.6308	0.6308	94.05	
PCB-37	26:50	4142595	1.06	1.1435	47.9	47.9	0.6232	0.6232	95.81	
S Total Tetrachlorobiphenyls					1914.7	1914.7	0.5523	0.5523		
D PCB-54L	20:06	1981210	0.85	0.5562	73.8	73.8	0.0443	0.0443	73.81	
* PCB-52L	24:40	5953067	0.80		100.0	100.0				
D PCB-81L	33:34	5788808	0.79	1.2470	78.0	78.0	0.1092	0.1092	77.98	
D PCB-77L	34:08	6414059	0.80	1.3212	81.6	81.6	0.1030	0.1030	81.55	
PCB-54	20:08	1230344	0.82	1.2733	48.8	48.8	0.0765	0.0765	97.54	
PCB-50	22:18	4707852	0.78	0.8578	90.0	90.0	0.7082	0.7082	89.95	
PCB-53 (C50)	22:18	4707852	0.78	0.8578	90.0	90.0	0.7082	0.7082	89.95	
PCB-45	23:02	4365255	0.81	0.8264	86.6	86.6	0.7351	0.7351	86.57	M
PCB-51 (C45)	23:02	4365255	0.81	0.8264	86.6	86.6	0.7351	0.7351	86.57	M
PCB-46	23:16	1893993	0.79	0.7101	43.7	43.7	0.8555	0.8555	87.43	
PCB-52	24:41	2620210	0.80	0.9194	46.7	46.7	0.6607	0.6607	93.42	
PCB-43	24:50	5486564	0.78	1.0333	87.0	87.0	0.5879	0.5879	87.02	M
PCB-73 (C43)	24:50	5486564	0.78	1.0333	87.0	87.0	0.5879	0.5879	87.02	M
PCB-49	25:08	5429628	0.77	1.0685	83.3	83.3	0.5685	0.5685	83.28	
PCB-69 (C49)	25:08	5429628	0.77	1.0685	83.3	83.3	0.5685	0.5685	83.28	
PCB-48	25:27	2265336	0.77	0.8399	44.2	44.2	0.7233	0.7233	88.41	
PCB-44	25:41	7881096	0.79	0.9731	132.7	132.7	0.6243	0.6243	88.49	
PCB-47 (C44)	25:41	7881096	0.79	0.9731	132.7	132.7	0.6243	0.6243	88.49	
PCB-65 (C44)	25:41	7881096	0.79	0.9731	132.7	132.7	0.6243	0.6243	88.49	
PCB-59	26:00	9239147	0.79	1.1853	127.8	127.8	0.5125	0.5125	85.17	
PCB-62 (C59)	26:00	9239147	0.79	1.1853	127.8	127.8	0.5125	0.5125	85.17	
PCB-75 (C59)	26:00	9239147	0.79	1.1853	127.8	127.8	0.5125	0.5125	85.17	
PCB-42	26:12	2136294	0.78	0.8097	43.2	43.2	0.7503	0.7503	86.49	
PCB-40	26:42	7092119	0.78	0.8863	131.1	131.1	0.6854	0.6854	87.43	M
PCB-41 (C40)	26:42	7092119	0.78	0.8863	131.1	131.1	0.6854	0.6854	87.43	M
PCB-71 (C40)	26:42	7092119	0.78	0.8863	131.1	131.1	0.6854	0.6854	87.43	M
PCB-64	26:54	3222684	0.77	1.1776	44.9	44.9	0.5159	0.5159	89.71	
PCB-72	27:45	3618084	0.79	1.0943	54.2	54.2	0.5551	0.5551	108	
PCB-68	28:02	3419812	0.79	1.2533	44.7	44.7	0.4847	0.4847	89.44	
PCB-57	28:27	3371886	0.77	1.0818	51.1	51.1	0.5615	0.5615	102	
PCB-58	28:42	3906840	0.79	1.3253	48.3	48.3	0.4584	0.4584	96.63	
PCB-67	28:51	3979234	0.78	1.4230	45.8	45.8	0.4269	0.4269	91.66	
PCB-63	29:07	3220459	0.74	1.1240	47.0	47.0	0.5405	0.5405	93.92	
PCB-61	29:28	14174044	0.79	1.2612	184.2	184.2	0.4816	0.4816	92.09	
PCB-70 (C61)	29:28	14174044	0.79	1.2612	184.2	184.2	0.4816	0.4816	92.09	
PCB-74 (C61)	29:28	14174044	0.79	1.2612	184.2	184.2	0.4816	0.4816	92.09	
PCB-76 (C61)	29:28	14174044	0.79	1.2612	184.2	184.2	0.4816	0.4816	92.09	
PCB-66	29:47	3792248	0.79	1.2583	49.4	49.4	0.4828	0.4828	98.79	
PCB-55	29:56	3762931	0.79	1.3236	46.6	46.6	0.4589	0.4589	93.19	
PCB-56	30:27	3648048	0.80	1.2334	48.5	48.5	0.4925	0.4925	96.95	
PCB-60	30:39	3111599	0.78	1.1230	45.4	45.4	0.5409	0.5409	90.82	
PCB-80	31:05	3595003	0.80	1.3243	44.5	44.5	0.4587	0.4587	88.99	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:36	4357306	0.80	1.4368	49.7	49.7	0.4228	0.4228	99.41	
PCB-78	33:09	3594000	0.84	1.1618	50.7	50.7	0.5229	0.5229	101	
PCB-81	33:35	2961438	0.76	1.0802	47.4	47.4	0.5875	0.5875	94.72	
PCB-77	34:09	3287684	0.77	1.0836	47.3	47.3	0.5376	0.5376	94.61	
S Total Pentachlorobiphenyls					2322.8	2322.8	0.3258	0.3258		
D PCB-104L	25:36	4045865	1.65	1.2161	78.6	78.6	0.0451	0.0451	78.59	
* PCB-101L	31:31	4233317	1.59		100.0	100.0				
\$ PCB-111L	34:11	4599919	1.61	1.3699	79.3	79.3	0.0401	0.0401	79.32	
D PCB-123L	36:08	5914209	1.60	0.9731	82.3	82.3	0.9658	0.9658	82.31	
D PCB-118L	36:28	6299040	1.61	1.0102	84.5	84.5	0.9304	0.9304	84.46	
D PCB-114L	36:59	6153503	1.60	0.9949	83.8	83.8	0.9447	0.9447	83.77	
D PCB-105L	37:38	6075331	1.57	0.9514	86.5	86.5	0.9878	0.9878	86.49	
* PCB-127L	39:06	7383198	1.59		100.0	100.0				
D PCB-126L	40:43	6124308	1.57	0.9439	87.9	87.9	0.996	0.996	87.88	
PCB-104	25:38	2044599	1.54	1.0087	50.1	50.1	0.0743	0.0743	100	
PCB-96	26:00	2343142	1.59	1.0940	52.9	52.9	0.0685	0.0685	106	
PCB-103	27:56	1724736	1.58	0.8741	48.8	48.8	0.0857	0.0857	97.54	
PCB-94	28:10	1421759	1.66	0.7640	46.0	46.0	0.0980	0.0980	91.99	
PCB-95	28:36	1610546	1.56	0.8033	49.6	49.6	0.0932	0.0932	99.11	
PCB-93	28:49	3144677	1.59	0.8429	92.2	92.2	0.0889	0.0889	92.22	
PCB-100 (C93)	28:49	3144677	1.59	0.8429	92.2	92.2	0.0889	0.0889	92.22	
PCB-98	28:58	3798485	1.60	0.8262	113.6	113.6	0.0907	0.0907	114	M
PCB-102 (C98)	28:58	3798485	1.60	0.8262	113.6	113.6	0.0907	0.0907	114	M
PCB-88	29:27	3185358	1.62	0.8013	98.3	98.3	0.0935	0.0935	98.25	
PCB-91 (C88)	29:27	3185358	1.62	0.8013	98.3	98.3	0.0935	0.0935	98.25	
PCB-84	29:41	1480251	1.56	0.7299	50.1	50.1	0.1026	0.1026	100	
PCB-89	30:09	1795175	1.61	0.7798	56.9	56.9	0.0960	0.0960	114	
PCB-121	30:34	2566879	1.61	1.2964	48.9	48.9	0.0578	0.0578	97.88	
PCB-92	30:57	1625061	1.62	0.8546	47.0	47.0	0.0876	0.0876	94.00	
PCB-90	31:31	5778938	1.57	0.9550	149.6	149.6	0.0784	0.0784	99.71	
PCB-101 (C90)	31:31	5778938	1.57	0.9550	149.6	149.6	0.0784	0.0784	99.71	
PCB-113 (C90)	31:31	5778938	1.57	0.9550	149.6	149.6	0.0784	0.0784	99.71	
PCB-83	32:06	3542645	1.60	0.8385	104.4	104.4	0.0893	0.0893	104	
PCB-99 (C83)	32:06	3542645	1.60	0.8385	104.4	104.4	0.0893	0.0893	104	
PCB-112	32:13	2927710	1.60	1.4111	51.3	51.3	0.0531	0.0531	103	
PCB-86	32:35	12662870	1.57	1.0473	298.9	298.9	0.0715	0.0715	99.62	M
PCB-87 (C86)	32:35	12662870	1.57	1.0473	298.9	298.9	0.0715	0.0715	99.62	M
PCB-97 (C86)	32:35	12662870	1.57	1.0473	298.9	298.9	0.0715	0.0715	99.62	M
PCB-109 (C86)	32:35	12662870	1.57	1.0473	298.9	298.9	0.0715	0.0715	99.62	M
PCB-119 (C86)	32:35	12662870	1.57	1.0473	298.9	298.9	0.0715	0.0715	99.62	M
PCB-125 (C86)	32:35	12662870	1.57	1.0473	298.9	298.9	0.0715	0.0715	99.62	M
PCB-85	33:19	6151845	1.60	1.0408	146.1	146.1	0.0720	0.0720	97.40	
PCB-116 (C85)	33:19	6151845	1.60	1.0408	146.1	146.1	0.0720	0.0720	97.40	
PCB-117 (C85)	33:19	6151845	1.60	1.0408	146.1	146.1	0.0720	0.0720	97.40	
PCB-110	33:32	5452501	1.61	1.1919	113.1	113.1	0.0628	0.0628	113	
PCB-115 (C110)	33:32	5452501	1.61	1.1919	113.1	113.1	0.0628	0.0628	113	
PCB-82	33:49	1784215	1.60	0.8303	53.1	53.1	0.0902	0.0902	106	
PCB-111	34:12	2426431	1.57	1.2125	49.5	49.5	0.0618	0.0618	98.92	
PCB-120	34:40	3036198	1.62	1.4762	50.8	50.8	0.0507	0.0507	102	
PCB-108	35:48	6737265	1.56	1.1405	96.6	96.6	0.8225	0.8225	96.63	
PCB-124 (C108)	35:48	6737265	1.56	1.1405	96.6	96.6	0.8225	0.8225	96.63	
PCB-107	36:02	3895178	1.57	1.2121	52.6	52.6	0.7739	0.7739	105	
PCB-123	36:10	3066887	1.56	1.0722	48.4	48.4	0.8676	0.8676	96.72	
PCB-106	36:16	3552802	1.57	1.0839	53.6	53.6	0.8655	0.8655	107	
PCB-118	36:29	3454714	1.57	1.2055	45.5	45.5	0.7449	0.7449	90.99	
PCB-122	36:50	2880974	1.60	0.9567	49.3	49.3	0.9805	0.9805	98.52	
PCB-114	37:00	3289909	1.58	1.0842	49.3	49.3	0.8550	0.8550	98.63	
PCB-105	37:40	3263424	1.59	1.1879	45.2	45.2	0.8064	0.8064	90.44	
PCB-127	39:08	3779036	1.51	1.1394	54.3	54.3	0.8233	0.8233	109	
PCB-126	40:44	3829806	1.53	1.0976	57.0	57.0	0.8943	0.8943	114	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Hexachlorobiphenyls					2029.1	2029.1	0.3996	0.3996		
D PCB-155L	31:16	3787336	1.31	1.0851	82.4	82.4	0.0375	0.0375	82.45	
* PCB-138L	39:35	5185982	1.28		100.0	100.0				
D PCB-167L	42:35	5608955	1.28	1.2572	86.0	86.0	0.3244	0.3244	86.03	
D PCB-156L	43:43	11028406	1.29	1.2106	175.7	175.7	0.3369	0.3369	87.83	
D PCB-157L (C156L)	43:43	11028406	1.29	1.2106	175.7	175.7	0.3369	0.3369	87.83	
D PCB-169L	46:57	5789053	1.26	1.2439	89.7	89.7	0.3279	0.3279	89.74	
PCB-155	31:18	1726819	1.25	0.9444	48.3	48.3	0.0506	0.0506	96.56	
PCB-152	31:29	2135052	1.26	0.9895	57.0	57.0	0.0483	0.0483	114	
PCB-150	31:40	1906616	1.26	1.0132	49.7	49.7	0.0472	0.0472	99.37	
PCB-136	32:01	1807432	1.27	1.0116	47.2	47.2	0.0473	0.0473	94.35	
PCB-145	32:19	2069679	1.24	0.9685	56.4	56.4	0.0494	0.0494	113	
PCB-148	33:50	1418251	1.33	0.7603	49.3	49.3	0.0629	0.0629	98.51	
PCB-135	34:28	2859499	1.25	0.7256	104.1	104.1	0.0659	0.0659	104	
PCB-151 (C135)	34:28	2859499	1.25	0.7256	104.1	104.1	0.0659	0.0659	104	
PCB-154	34:40	1528610	1.32	0.8129	49.7	49.7	0.0588	0.0588	99.30	
PCB-144	34:59	1430640	1.25	0.7852	48.1	48.1	0.0609	0.0609	96.21	
PCB-147	35:20	4536893	1.27	0.8950	90.4	90.4	0.5651	0.5651	90.42	M
PCB-149 (C147)	35:20	4536893	1.27	0.8950	90.4	90.4	0.5651	0.5651	90.42	M
PCB-134	35:39	3869807	1.25	0.7967	86.6	86.6	0.6348	0.6348	86.64	
PCB-143 (C134)	35:39	3869807	1.25	0.7967	86.6	86.6	0.6348	0.6348	86.64	
PCB-139	35:56	4727664	1.26	0.8769	96.2	96.2	0.5768	0.5768	96.16	
PCB-140 (C139)	35:56	4727664	1.26	0.8769	96.2	96.2	0.5768	0.5768	96.16	
PCB-131	36:08	1939056	1.24	0.7503	46.1	46.1	0.6741	0.6741	92.19	
PCB-142	36:17	1930188	1.27	0.7507	45.9	45.9	0.6737	0.6737	91.72	
PCB-132	36:36	2090417	1.28	0.7489	49.8	49.8	0.6753	0.6753	99.57	
PCB-133	37:06	2228746	1.27	0.8096	49.1	49.1	0.6247	0.6247	98.20	
PCB-165	37:30	2617243	1.25	1.0247	45.6	45.6	0.4936	0.4936	91.11	
PCB-146	37:45	2606265	1.16	0.9637	48.2	48.2	0.5248	0.5248	96.48	
PCB-161	37:53	3246020	1.35	1.1288	51.3	51.3	0.4481	0.4481	103	
PCB-153	38:23	5757663	1.23	1.0938	93.9	93.9	0.4624	0.4624	93.89	
PCB-168 (C153)	38:23	5757663	1.23	1.0938	93.9	93.9	0.4624	0.4624	93.89	
PCB-141	38:33	2263452	1.27	0.8755	46.1	46.1	0.5777	0.5777	92.22	
PCB-130	38:58	1809274	1.23	0.7051	45.8	45.8	0.7173	0.7173	91.53	
PCB-137	39:11	2149945	1.31	0.7767	49.4	49.4	0.6512	0.6512	98.75	
PCB-164	39:19	3125080	1.24	1.0382	53.7	53.7	0.4871	0.4871	107	
PCB-129	39:37	9794466	1.28	0.9464	184.6	184.6	0.5344	0.5344	92.29	M
PCB-138 (C129)	39:37	9794466	1.28	0.9464	184.6	184.6	0.5344	0.5344	92.29	M
PCB-160 (C129)	39:37	9794466	1.28	0.9464	184.6	184.6	0.5344	0.5344	92.29	M
PCB-163 (C129)	39:37	9794466	1.28	0.9464	184.6	184.6	0.5344	0.5344	92.29	M
PCB-158	39:59	3208074	1.24	1.3110	43.6	43.6	0.3858	0.3858	87.29	
PCB-128	40:50	5525354	1.24	0.9829	100.3	100.3	0.5145	0.5145	100	
PCB-166 (C128)	40:50	5525354	1.24	0.9829	100.3	100.3	0.5145	0.5145	100	
PCB-159	41:50	3686378	1.23	1.3856	47.5	47.5	0.3650	0.3650	94.90	
PCB-162	42:08	3303217	1.28	1.2571	46.9	46.9	0.4023	0.4023	93.73	
PCB-167	42:36	3081780	1.26	1.1159	49.2	49.2	0.3823	0.3823	98.48	
PCB-156	43:45	5848547	1.25	1.1104	95.5	95.5	0.5617	0.5617	95.52	
PCB-157 (C156)	43:45	5848547	1.25	1.1104	95.5	95.5	0.5617	0.5617	95.52	
PCB-169	46:58	3635054	1.25	1.1628	54.0	54.0	0.3646	0.3646	108	
S Total Heptachlorobiphenyls					1201.9	1201.9	0.0363	0.0363		
D PCB-188L	36:59	4543899	1.08	1.3133	84.2	84.2	0.0306	0.0306	84.21	
\$ PCB-178L	40:02	3555238	1.08	1.0313	83.9	83.9	0.0389	0.0389	83.90	
* PCB-180L	45:07	4108586	1.06		100.0	100.0				
D PCB-170L	46:23	3154271	1.09	0.8362	91.8	91.8	0.0480	0.0480	91.81	
D PCB-189L	49:28	6999889	1.04	1.4414	86.6	86.6	0.1926	0.1926	86.56	
PCB-188	37:00	2428935	1.03	1.1350	47.1	47.1	0.0242	0.0242	94.20	
PCB-179	37:21	2641925	1.04	1.4276	48.1	48.1	0.0231	0.0231	96.16	
PCB-184	37:52	2484344	1.06	1.3672	47.2	47.2	0.0242	0.0242	94.42	
PCB-176	38:13	2327101	1.08	1.2331	49.0	49.0	0.0268	0.0268	98.06	
PCB-186	38:41	2753337	1.06	1.4737	48.5	48.5	0.0224	0.0224	97.08	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-178	40:04	1760955	1.03	0.8946	51.1	51.1	0.0369	0.0369	102	
PCB-175	40:42	1754403	1.01	0.9524	47.9	47.9	0.0347	0.0347	95.71	
PCB-187	40:58	2153752	1.05	1.1018	50.8	50.8	0.0300	0.0300	102	
PCB-182	41:10	2147215	1.07	0.9247	60.3	60.3	0.0357	0.0357	121	
PCB-183	41:35	3716954	1.05	0.9825	98.3	98.3	0.0336	0.0336	98.29	M
PCB-185 (C183)	41:35	3716954	1.05	0.9825	98.3	98.3	0.0336	0.0336	98.29	M
PCB-174	41:49	1939823	1.07	0.9642	52.3	52.3	0.0343	0.0343	105	
PCB-177	42:15	1955797	1.08	0.9773	52.0	52.0	0.0338	0.0338	104	
PCB-181	42:39	1990240	1.08	0.9505	54.4	54.4	0.0347	0.0347	109	
PCB-171	42:51	3456692	1.05	0.9336	96.2	96.2	0.0354	0.0354	96.19	
PCB-173 (C171)	42:51	3456692	1.05	0.9336	96.2	96.2	0.0354	0.0354	96.19	
PCB-172	44:30	1818971	1.05	0.8519	55.5	55.5	0.0388	0.0388	111	
PCB-192	44:46	2695730	1.06	1.3459	52.0	52.0	0.0245	0.0245	104	
PCB-180	45:07	4501511	1.06	1.1676	100.2	100.2	0.0283	0.0283	100	
PCB-193 (C180)	45:07	4501511	1.06	1.1676	100.2	100.2	0.0283	0.0283	100	
PCB-191	45:30	2406112	1.08	1.2891	48.5	48.5	0.0256	0.0256	96.98	
PCB-170	46:23	1691354	1.05	1.1865	45.2	45.2	0.0349	0.0349	90.38	
PCB-190	46:55	2384415	1.05	1.3322	46.5	46.5	0.0248	0.0248	93.00	
PCB-189	49:30	3429059	1.09	0.9633	50.9	50.9	0.1547	0.1547	102	
S Total Octachlorobiphenyls					614.4	614.4	0.1088	0.1088		
D PCB-202L	42:21	3506343	0.89	0.9818	86.9	86.9	0.0291	0.0291	86.92	
* PCB-194L	51:36	5610250	0.93		100.0	100.0				
D PCB-205L	52:03	6003447	0.89	1.1786	90.8	90.8	0.0726	0.0726	90.80	
PCB-202	42:23	1862203	0.92	1.0359	51.3	51.3	0.0531	0.0531	103	
PCB-201	43:17	1704920	0.88	0.9754	49.9	49.9	0.0563	0.0563	99.70	
PCB-204	43:57	1968871	0.84	1.0485	53.6	53.6	0.0524	0.0524	107	
PCB-197	44:12	1963778	0.91	1.1458	48.9	48.9	0.0480	0.0480	97.76	
PCB-200	44:18	1761198	0.90	1.0072	49.9	49.9	0.0546	0.0546	99.74	
PCB-198	47:04	3138465	0.90	0.8698	102.9	102.9	0.0632	0.0632	103	
PCB-199 (C198)	47:04	3138465	0.90	0.8698	102.9	102.9	0.0632	0.0632	103	
PCB-196	47:45	1435697	0.86	0.7806	52.5	52.5	0.0704	0.0704	105	
PCB-203	47:57	1797856	0.92	0.9292	55.2	55.2	0.0591	0.0591	110	
PCB-195	49:16	2494818	0.90	0.8263	50.3	50.3	0.2836	0.2836	101	
PCB-194	51:36	2867277	0.87	0.9735	49.1	49.1	0.2407	0.2407	98.12	
PCB-205	52:05	3336260	0.93	1.0878	51.1	51.1	0.2155	0.2155	102	
S Total Nonachlorobiphenyls					136.5	136.5	0.2669	0.2669		
D PCB-208L	49:01	5138580	0.81	0.9576	95.6	95.6	0.2717	0.2717	95.65	
D PCB-206L	53:49	3819492	0.79	0.6947	98.0	98.0	0.3745	0.3745	98.00	
PCB-208	49:02	2659463	0.78	1.1374	45.5	45.5	0.2592	0.2592	91.00	
PCB-207	49:57	2713607	0.79	1.3756	44.0	44.0	0.2454	0.2454	88.08	
PCB-206	53:49	2395866	0.76	1.3346	47.0	47.0	0.2959	0.2959	94.00	
D PCB-209L	55:25	3968363	0.73	0.6669	106.1	106.1	0.0748	0.0748	106	
DCB Decachlorobiphenyl	55:27	2010465	0.72	1.1004	46.0	46.0	0.0830	0.0830	92.08	
S Polychlorinated biphenyls, Total					10016	10016	0.2512	0.2512		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d
Lims ID: LCSD 140-87206/16-B
Client ID:
Sample Type: LCSD
Inject. Date: 11-Jun-2024 12:17:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-003
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 11-Jun-2024 14:58:57 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1603

First Level Reviewer: P0IK

Date: 11-Jun-2024 14:58:57

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:33	11:34	-2	0.726	6162795	2384468	1999	4997	1193		
202.0766	11:33	11:34	-2	0.726	1987326	754090	1361	3402	554	3.10(2.66-3.60)	
PCB-3L											
200.0795	13:41	13:43	-2	0.861	5871553	1956999	1999	4997	979		
202.0766	13:41	13:43	-2	0.861	1842114	623379	1361	3402	458	3.19(2.66-3.60)	
PCB-1											
188.0393	11:33	11:35	-2	1.001	3745650	1494901	1657	4142	902		
190.0363	11:33	11:35	-2	1.001	1177195	479160	688	1720	696	3.18(2.66-3.60)	
PCB-2											
188.0393	13:32	13:34	-2	0.988	3625325	1258228	1657	4142	759		
190.0363	13:32	13:34	-2	0.988	1127291	396637	688	1720	577	3.22(2.66-3.60)	
PCB-3											
188.0393	13:42	13:44	-2	1.001	3574466	1180131	1657	4142	712		
190.0363	13:42	13:44	-2	1.001	1153367	383246	688	1720	557	3.10(2.66-3.60)	
PCB-4L											
234.0406	13:57	13:59	-2	0.878	2090874	668023	615	1537	1086		
236.0376	13:57	13:59	-2	0.878	1262491	419672	203	507	2067	1.66(1.33-1.79)	
PCB-9L											
234.0406	15:54	15:56	-2		4195528	1204767	615	1537	1959		
236.0376	15:54	15:56	-2		2620642	749309	203	507	3691	1.60(1.33-1.79)	
PCB-15L											
234.0406	19:48	19:50	-2	1.246	3427479	821655	615	1537	1336		
236.0376	19:48	19:50	-2	1.246	2066212	516836	203	507	2546	1.66(1.33-1.79)	
PCB-4											
222.0003	13:58	14:00	-2	1.001	1264630	428624	102	255	4202		
223.9974	13:58	14:00	-2	1.001	808949	267272	319	797	838	1.56(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-10											
222.0003	14:08	14:10	-2	1.013	1686773	539973	102	255	5294		
223.9974	14:08	14:10	-2	1.013	1049009	335236	319	797	1051	1.61(1.33-1.79)	
PCB-9											
222.0003	15:55	15:57	-2	1.141	1914932	570911	102	255	5597		
223.9974	15:55	15:57	-2	1.141	1191380	344443	319	797	1080	1.61(1.33-1.79)	
PCB-7											
222.0003	16:05	16:07	-2	1.153	1721872	490568	102	255	4809		
223.9974	16:05	16:07	-2	1.153	1107151	318543	319	797	999	1.56(1.33-1.79)	
PCB-6											
222.0003	16:20	16:22	-2	1.171	2039131	565831	102	255	5547		
223.9974	16:20	16:22	-2	1.171	1291245	362948	319	797	1138	1.58(1.33-1.79)	
PCB-5											
222.0003	16:38	16:40	-2	1.192	1650395	473689	102	255	4644		
223.9974	16:38	16:40	-2	1.192	1042956	297150	319	797	932	1.58(1.33-1.79)	
PCB-8											
222.0003	16:45	16:47	-2	1.201	2133406	580560	102	255	5692		
223.9974	16:45	16:47	-2	1.201	1350573	366041	319	797	1147	1.58(1.33-1.79)	
PCB-14											
222.0003	18:22	18:24	-2	0.928	1817667	478276	102	255	4689		
223.9974	18:22	18:24	-2	0.928	1160367	301701	319	797	946	1.57(1.33-1.79)	
PCB-11											
222.0003	19:13	19:14	-2	0.970	1951100	493212	102	255	4835		
223.9974	19:13	19:14	-2	0.970	1252589	304889	319	797	956	1.56(1.33-1.79)	
PCB-12											
222.0003	19:31	19:32	-1	0.985	3499918	581305	102	255	5699		
223.9974	19:31	19:32	-1	0.985	2224047	368203	319	797	1154	1.57(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:31	19:32	-1	0.985	3499918	581305	102	255	5699		
223.9974	19:31	19:32	-1	0.985	2224047	368203	319	797	1154	1.57(1.33-1.79)	
PCB-15											
222.0003	19:50	19:51	-1	1.001	1921918	438889	102	255	4303		
223.9974	19:49	19:51	-2	1.001	1208297	272454	319	797	854	1.59(1.33-1.79)	
PCB-19L											
268.0016	17:02	17:04	-2	0.840	1115195	306350	862	2155	355		
269.9986	17:02	17:04	-2	0.840	1020997	283401	847	2117	335	1.09(0.88-1.20)	
PCB-32L											
268.0016	20:16	20:18	-2		2510657	603718	862	2155	700		
269.9986	20:16	20:18	-2		2314930	582559	847	2117	688	1.08(0.88-1.20)	
PCB-31L											
268.0016	22:32	22:34	-2		5662291	1306109	1321	3302	989		
269.9986	22:32	22:34	-2		5468880	1256033	458	1145	2742	1.04(0.88-1.20)	
PCB-28L											
268.0016	22:49	22:51	-1	1.013	4351201	999048	1321	3302	756		
269.9986	22:49	22:51	-1	1.013	4142920	941924	458	1145	2057	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37L											
268.0016	26:50	26:50	-1	1.191	3905061	781494	1321	3302	592		
269.9986	26:50	26:50	-1	1.191	3656920	753056	458	1145	1644	1.07(0.88-1.20)	
PCB-19											
255.9613	17:03	17:05	-2	1.001	715492	202480	114	285	1776		
257.9584	17:03	17:05	-2	1.001	680899	188784	63	157	2997	1.05(0.88-1.20)	
PCB-18											
255.9613	18:53	18:55	-2	1.108	1941158	352054	114	285	3088		
257.9584	18:53	18:55	-2	1.108	1843401	341389	63	157	5419	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:53	18:55	-2	1.108	1941158	352054	114	285	3088		
257.9584	18:53	18:55	-2	1.108	1843401	341389	63	157	5419	1.05(0.88-1.20)	
PCB-17											
255.9613	19:20	19:21	-2	1.134	681728	173198	114	285	1519		
257.9584	19:20	19:21	-2	1.134	619537	160861	63	157	2553	1.10(0.88-1.20)	
PCB-27											
255.9613	19:33	19:34	-1	1.148	923186	224694	114	285	1971		
257.9584	19:32	19:34	-2	1.147	889472	223488	63	157	3547	1.04(0.88-1.20)	
PCB-24											
255.9613	19:40	19:42	-2	1.154	959450	244653	114	285	2146		
257.9584	19:40	19:42	-2	1.154	930905	235130	63	157	3732	1.03(0.88-1.20)	
PCB-16											
255.9613	19:47	19:49	-2	1.161	658673	160376	114	285	1407		
257.9584	19:47	19:49	-2	1.161	625697	155862	63	157	2474	1.05(0.88-1.20)	
PCB-32											
255.9613	20:18	20:19	-1	1.192	1115890	271120	114	285	2378		
257.9584	20:18	20:19	-1	1.192	1072296	265962	63	157	4222	1.04(0.88-1.20)	
PCB-34											
255.9613	21:33	21:35	-1	1.265	1883530	449292	2334	5835	192		
257.9584	21:33	21:35	-1	1.265	1812883	437539	2040	5100	214	1.04(0.88-1.20)	
PCB-23											
255.9613	21:42	21:43	-1	1.274	1884435	446824	2334	5835	191		
257.9584	21:42	21:43	-1	1.274	1847452	437719	2040	5100	215	1.02(0.88-1.20)	
PCB-26											
255.9613	22:01	22:02	-1	1.292	3802621	794125	2334	5835	340		
257.9584	22:01	22:02	-1	1.292	3679148	764689	2040	5100	375	1.03(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:01	22:02	-1	1.292	3802621	794125	2334	5835	340		
257.9584	22:01	22:02	-1	1.292	3679148	764689	2040	5100	375	1.03(0.88-1.20)	
PCB-25											
255.9613	22:15	22:16	-1	0.829	2351436	515497	2334	5835	221		
257.9584	22:14	22:16	-2	0.829	2291040	477682	2040	5100	234	1.03(0.88-1.20)	
PCB-31											
255.9613	22:33	22:35	-1	0.841	2235612	515404	2334	5835	221		
257.9584	22:33	22:35	-1	0.841	2158076	500307	2040	5100	245	1.04(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-20											
255.9613	22:52	22:53	-1	0.852	4103300	772391	2334	5835	331		
257.9584	22:52	22:53	-1	0.852	3961663	728974	2040	5100	357	1.04(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:52	22:53	-1	0.852	4103300	772391	2334	5835	331		
257.9584	22:52	22:53	-1	0.852	3961663	728974	2040	5100	357	1.04(0.88-1.20)	
PCB-21											
255.9613	23:01	23:01	-2	0.858	4080137	500348	2334	5835	214		M
257.9584	23:01	23:01	-2	0.858	3942395	485108	2040	5100	238	1.03(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:01	23:01	-2	0.858	4080137	500348	2334	5835	214		M
257.9584	23:01	23:01	-2	0.858	3942395	485108	2040	5100	238	1.03(0.88-1.20)	M
PCB-22											
255.9613	23:29	23:30	-1	0.875	2230730	499662	2334	5835	214		
257.9584	23:29	23:30	-1	0.875	2167371	471463	2040	5100	231	1.03(0.88-1.20)	
PCB-36											
255.9613	25:02	25:04	-1	0.933	2436728	487593	2334	5835	209		
257.9584	25:02	25:04	-1	0.933	2243659	466754	2040	5100	229	1.09(0.88-1.20)	
PCB-39											
255.9613	25:24	25:25	-1	0.947	2146764	451527	2334	5835	193		
257.9584	25:24	25:25	-1	0.947	2026748	419728	2040	5100	206	1.06(0.88-1.20)	
PCB-38											
255.9613	25:58	26:00	-1	0.968	2134097	447262	2334	5835	192		
257.9584	25:58	26:00	-1	0.968	2031477	425363	2040	5100	209	1.05(0.88-1.20)	
PCB-35											
255.9613	26:26	26:27	-1	0.985	2045954	420630	2334	5835	180		
257.9584	26:26	26:27	-1	0.985	1971400	400105	2040	5100	196	1.04(0.88-1.20)	
PCB-37											
255.9613	26:50	26:52	-1	1.000	2132759	430992	2334	5835	185		
257.9584	26:50	26:52	-1	1.000	2009836	410555	2040	5100	201	1.06(0.88-1.20)	
PCB-54L											
301.9626	20:06	20:08	-2	0.815	909322	219032	105	262	2086		
303.9597	20:06	20:08	-2	0.815	1071888	263244	12	30	21937	0.85(0.65-0.89)	
PCB-52L											
301.9626	24:40	24:41	-1		2651289	587204	349	872	1683		
303.9597	24:40	24:41	-1		3301778	732953	370	925	1981	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:34	33:35	0	1.361	2557701	497850	349	872	1427		
303.9597	33:34	33:35	-1	1.361	3231107	620432	370	925	1677	0.79(0.65-0.89)	
PCB-77L											
301.9626	34:08	34:09	0	1.384	2855704	544170	349	872	1559		
303.9597	34:07	34:09	-1	1.383	3558355	674106	370	925	1822	0.80(0.65-0.89)	
PCB-54											
289.9224	20:08	20:10	-2	1.000	555267	141408	86	215	1644		
291.9194	20:08	20:10	-2	1.000	675077	173151	102	255	1698	0.82(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-50											
289.9224	22:18	22:19	-1	1.109	2057670	450176	1462	3655	308		
291.9194	22:18	22:19	-1	1.109	2650182	559643	1377	3442	406	0.78(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:18	22:19	-1	1.109	2057670	450176	1462	3655	308		
291.9194	22:18	22:19	-1	1.109	2650182	559643	1377	3442	406	0.78(0.65-0.89)	
PCB-45											
289.9224	23:02	23:02	-1	1.146	1951344	254326	1462	3655	174		M
291.9194	23:02	23:02	-1	1.146	2413911	325242	1377	3442	236	0.81(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:02	23:02	-1	1.146	1951344	254326	1462	3655	174		M
291.9194	23:02	23:02	-1	1.146	2413911	325242	1377	3442	236	0.81(0.65-0.89)	M
PCB-46											
289.9224	23:16	23:18	-1	1.158	836116	191252	1462	3655	131		
291.9194	23:16	23:18	-1	1.158	1057877	239783	1377	3442	174	0.79(0.65-0.89)	
PCB-52											
289.9224	24:41	24:42	-1	1.228	1165793	267490	1462	3655	183		
291.9194	24:42	24:42	-1	1.228	1454417	327415	1377	3442	238	0.80(0.65-0.89)	
PCB-43											
289.9224	24:50	24:50	-1	1.235	2411353	322817	1462	3655	221		M
291.9194	24:50	24:50	-1	1.235	3075211	413688	1377	3442	300	0.78(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:50	24:50	-1	1.235	2411353	322817	1462	3655	221		M
291.9194	24:50	24:50	-1	1.235	3075211	413688	1377	3442	300	0.78(0.65-0.89)	M
PCB-49											
289.9224	25:08	25:08	-1	1.250	2368662	347826	1462	3655	238		
291.9194	25:08	25:08	-1	1.250	3060966	450833	1377	3442	327	0.77(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:08	25:08	-1	1.250	2368662	347826	1462	3655	238		
291.9194	25:08	25:08	-1	1.250	3060966	450833	1377	3442	327	0.77(0.65-0.89)	
PCB-48											
289.9224	25:27	25:28	-1	1.266	983921	218720	1462	3655	150		
291.9194	25:27	25:28	-1	1.266	1281415	283124	1377	3442	206	0.77(0.65-0.89)	
PCB-44											
289.9224	25:41	25:43	-1	1.278	3490171	639955	1462	3655	438		
291.9194	25:41	25:43	-1	1.278	4390925	798369	1377	3442	580	0.79(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:41	25:43	-1	1.278	3490171	639955	1462	3655	438		
291.9194	25:41	25:43	-1	1.278	4390925	798369	1377	3442	580	0.79(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:41	25:43	-1	1.278	3490171	639955	1462	3655	438		
291.9194	25:41	25:43	-1	1.278	4390925	798369	1377	3442	580	0.79(0.65-0.89)	
PCB-59											
289.9224	26:00	26:01	-1	1.293	4081571	586390	1462	3655	401		
291.9194	26:00	26:01	-1	1.293	5157576	727193	1377	3442	528	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-62 (C59)											
289.9224	26:00	26:01	-1	1.293	4081571	586390	1462	3655	401		
291.9194	26:00	26:01	-1	1.293	5157576	727193	1377	3442	528	0.79(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:00	26:01	-1	1.293	4081571	586390	1462	3655	401		
291.9194	26:00	26:01	-1	1.293	5157576	727193	1377	3442	528	0.79(0.65-0.89)	
PCB-42											
289.9224	26:12	26:13	-1	1.304	937161	199353	1462	3655	136		
291.9194	26:12	26:13	-1	1.304	1199133	256337	1377	3442	186	0.78(0.65-0.89)	
PCB-40											
289.9224	26:42	26:42	-1	1.328	3106862	475227	1462	3655	325		M
291.9194	26:42	26:42	-1	1.328	3985257	607201	1377	3442	441	0.78(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:42	26:42	-1	1.328	3106862	475227	1462	3655	325		M
291.9194	26:42	26:42	-1	1.328	3985257	607201	1377	3442	441	0.78(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:42	26:42	-1	1.328	3106862	475227	1462	3655	325		M
291.9194	26:42	26:42	-1	1.328	3985257	607201	1377	3442	441	0.78(0.65-0.89)	M
PCB-64											
289.9224	26:54	26:56	-1	1.339	1400901	298345	1462	3655	204		
291.9194	26:54	26:56	-1	1.339	1821783	388817	1377	3442	282	0.77(0.65-0.89)	
PCB-72											
289.9224	27:45	27:46	-1	0.827	1592552	348688	1462	3655	239		
291.9194	27:45	27:46	-1	0.827	2025532	434241	1377	3442	315	0.79(0.65-0.89)	
PCB-68											
289.9224	28:02	28:03	-1	0.835	1507805	302406	1462	3655	207		
291.9194	28:02	28:03	-1	0.835	1912007	383710	1377	3442	279	0.79(0.65-0.89)	
PCB-57											
289.9224	28:27	28:28	-1	0.848	1469017	320869	1462	3655	219		
291.9194	28:27	28:28	-1	0.848	1902869	409604	1377	3442	297	0.77(0.65-0.89)	
PCB-58											
289.9224	28:42	28:42	-1	0.855	1723986	350452	1462	3655	240		
291.9194	28:42	28:42	-1	0.855	2182854	445933	1377	3442	324	0.79(0.65-0.89)	
PCB-67											
289.9224	28:51	28:52	-1	0.859	1741932	339251	1462	3655	232		
291.9194	28:51	28:52	-1	0.859	2237302	441880	1377	3442	321	0.78(0.65-0.89)	
PCB-63											
289.9224	29:07	29:08	-1	0.867	1367422	274651	1462	3655	188		
291.9194	29:07	29:08	-1	0.867	1853037	361111	1377	3442	262	0.74(0.65-0.89)	
PCB-61											
289.9224	29:28	29:28	-1	0.878	6271975	693815	1462	3655	475		
291.9194	29:28	29:28	-1	0.878	7902069	863181	1377	3442	627	0.79(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:28	29:28	-1	0.878	6271975	693815	1462	3655	475		
291.9194	29:28	29:28	-1	0.878	7902069	863181	1377	3442	627	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-74 (C61)											
289.9224	29:28	29:28	-1	0.878	6271975	693815	1462	3655	475		
291.9194	29:28	29:28	-1	0.878	7902069	863181	1377	3442	627	0.79(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:28	29:28	-1	0.878	6271975	693815	1462	3655	475		
291.9194	29:28	29:28	-1	0.878	7902069	863181	1377	3442	627	0.79(0.65-0.89)	
PCB-66											
289.9224	29:47	29:48	-1	0.887	1672021	335471	1462	3655	229		
291.9194	29:47	29:48	-1	0.887	2120227	421116	1377	3442	306	0.79(0.65-0.89)	
PCB-55											
289.9224	29:56	29:58	-1	0.892	1660479	336955	1462	3655	230		
291.9194	29:57	29:58	-1	0.892	2102452	428798	1377	3442	311	0.79(0.65-0.89)	
PCB-56											
289.9224	30:27	30:28	-1	0.907	1619429	334848	1462	3655	229		
291.9194	30:27	30:28	-1	0.907	2028619	408969	1377	3442	297	0.80(0.65-0.89)	
PCB-60											
289.9224	30:39	30:41	-1	0.913	1364939	280705	1462	3655	192		
291.9194	30:39	30:41	-1	0.913	1746660	347145	1377	3442	252	0.78(0.65-0.89)	
PCB-80											
289.9224	31:05	31:05	-1	0.926	1599307	322761	1462	3655	221		
291.9194	31:05	31:05	-1	0.926	1995696	409322	1377	3442	297	0.80(0.65-0.89)	
PCB-79											
289.9224	32:36	32:36	0	0.971	1932904	367965	1462	3655	252		
291.9194	32:36	32:36	0	0.971	2424402	458905	1377	3442	333	0.80(0.65-0.89)	
PCB-78											
289.9224	33:09	33:09	0	0.987	1641017	299340	1462	3655	205		
291.9194	33:09	33:09	0	0.987	1952983	394226	1377	3442	286	0.84(0.65-0.89)	
PCB-81											
289.9224	33:35	33:36	0	1.000	1277842	248041	1462	3655	170		
291.9194	33:35	33:36	0	1.000	1683596	323274	1377	3442	235	0.76(0.65-0.89)	
PCB-77											
289.9224	34:09	34:10	-1	1.000	1428291	276037	1462	3655	189		
291.9194	34:09	34:10	-1	1.000	1859393	354599	1377	3442	258	0.77(0.65-0.89)	
PCB-104L											
337.9207	25:36	25:37	-1	0.812	2516636	551622	113	282	4882		
339.9178	25:36	25:37	-1	0.812	1529229	342948	77	192	4454	1.65(1.32-1.78)	
PCB-101L											
337.9207	31:31	31:31	-1		2598338	530307	113	282	4693		
339.9178	31:31	31:31	-1		1634979	334918	77	192	4350	1.59(1.32-1.78)	
PCB-111L											
337.9207	34:11	34:12	0	1.085	2835213	562087	113	282	4974		
339.9178	34:11	34:12	0	1.085	1764706	353603	77	192	4592	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:08	36:09	-1	1.147	3637092	726491	3213	8032	226		
339.9178	36:08	36:09	-1	1.147	2277117	465062	2092	5230	222	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118L											
337.9207	36:28	36:28	-1	1.157	3882585	766804	3213	8032	239		
339.9178	36:28	36:28	-1	1.157	2416455	467668	2092	5230	224	1.61(1.32-1.78)	
PCB-114L											
337.9207	36:59	37:00	-1	1.174	3789980	732082	3213	8032	228		
339.9178	36:59	37:00	-1	1.174	2363523	463796	2092	5230	222	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:38	37:39	-1	1.194	3710776	708269	3213	8032	220		
339.9178	37:38	37:39	-1	1.194	2364555	448854	2092	5230	215	1.57(1.32-1.78)	
PCB-127L											
337.9207	39:06	39:07	-1		4533989	865755	3213	8032	269		
339.9178	39:06	39:07	-1		2849209	545300	2092	5230	261	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:43	40:44	-1	1.292	3739808	687541	3213	8032	214		
339.9178	40:43	40:44	-1	1.292	2384500	441715	2092	5230	211	1.57(1.32-1.78)	
PCB-104											
325.8804	25:38	25:38	-1	1.001	1240976	274941	191	477	1439		
327.8775	25:38	25:38	-1	1.001	803623	179244	77	192	2328	1.54(1.32-1.78)	
PCB-96											
325.8804	26:00	26:01	-1	1.015	1439445	309049	191	477	1618		
327.8775	26:00	26:01	-1	1.015	903697	186747	77	192	2425	1.59(1.32-1.78)	
PCB-103											
325.8804	27:56	27:56	-1	1.091	1056087	225370	191	477	1180		
327.8775	27:56	27:56	-1	1.091	668649	141996	77	192	1844	1.58(1.32-1.78)	
PCB-94											
325.8804	28:10	28:10	-1	1.100	888229	183711	191	477	962		
327.8775	28:09	28:10	-1	1.099	533530	111062	77	192	1442	1.66(1.32-1.78)	
PCB-95											
325.8804	28:36	28:36	-1	1.117	981349	208588	191	477	1092		
327.8775	28:36	28:36	-1	1.117	629197	132089	77	192	1715	1.56(1.32-1.78)	
PCB-93											
325.8804	28:49	28:49	-1	1.125	1929952	377517	191	477	1977		
327.8775	28:49	28:49	-1	1.125	1214725	233960	77	192	3038	1.59(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:49	28:49	-1	1.125	1929952	377517	191	477	1977		
327.8775	28:49	28:49	-1	1.125	1214725	233960	77	192	3038	1.59(1.32-1.78)	
PCB-98											
325.8804	28:58	28:58	-1	1.131	2336825	279881	191	477	1465		M
327.8775	28:58	28:58	-1	1.131	1461660	173124	77	192	2248	1.60(1.32-1.78)	M
PCB-102 (C98)											
325.8804	28:58	28:58	-1	1.131	2336825	279881	191	477	1465		M
327.8775	28:58	28:58	-1	1.131	1461660	173124	77	192	2248	1.60(1.32-1.78)	M
PCB-88											
325.8804	29:27	29:28	-1	1.150	1971704	219851	191	477	1151		
327.8775	29:27	29:28	-1	1.150	1213654	134738	77	192	1750	1.62(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-91 (C88)											
325.8804	29:27	29:28	-1	1.150	1971704	219851	191	477	1151		
327.8775	29:27	29:28	-1	1.150	1213654	134738	77	192	1750	1.62(1.32-1.78)	
PCB-84											
325.8804	29:41	29:41	-1	1.159	901337	180319	191	477	944		
327.8775	29:41	29:41	-1	1.159	578914	113981	77	192	1480	1.56(1.32-1.78)	
PCB-89											
325.8804	30:09	30:10	-1	1.178	1106082	222759	191	477	1166		
327.8775	30:09	30:10	-1	1.178	689093	144771	77	192	1880	1.61(1.32-1.78)	
PCB-121											
325.8804	30:34	30:34	-1	1.194	1582440	322374	191	477	1688		
327.8775	30:34	30:34	-1	1.194	984439	206613	77	192	2683	1.61(1.32-1.78)	
PCB-92											
325.8804	30:57	30:57	-1	0.856	1004353	206502	191	477	1081		
327.8775	30:57	30:57	-1	0.856	620708	125343	77	192	1628	1.62(1.32-1.78)	
PCB-90											
325.8804	31:31	31:31	-1	1.231	3532507	491296	191	477	2572		
327.8775	31:30	31:31	-1	1.230	2246431	319243	77	192	4146	1.57(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:31	31:31	-1	1.231	3532507	491296	191	477	2572		
327.8775	31:30	31:31	-1	1.230	2246431	319243	77	192	4146	1.57(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:31	31:31	-1	1.231	3532507	491296	191	477	2572		
327.8775	31:30	31:31	-1	1.230	2246431	319243	77	192	4146	1.57(1.32-1.78)	
PCB-83											
325.8804	32:06	32:06	0	1.254	2181330	279131	191	477	1461		
327.8775	32:06	32:06	0	1.254	1361315	168980	77	192	2195	1.60(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:06	32:06	0	1.254	2181330	279131	191	477	1461		
327.8775	32:06	32:06	0	1.254	1361315	168980	77	192	2195	1.60(1.32-1.78)	
PCB-112											
325.8804	32:13	32:13	0	1.258	1801671	338832	191	477	1774		
327.8775	32:13	32:13	0	1.258	1126039	211384	77	192	2745	1.60(1.32-1.78)	
PCB-86											
325.8804	32:35	32:35	-1	1.273	7735175	793073	191	477	4152		M
327.8775	32:35	32:35	-1	1.273	4927695	514733	77	192	6685	1.57(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:35	32:35	-1	1.273	7735175	793073	191	477	4152		M
327.8775	32:35	32:35	-1	1.273	4927695	514733	77	192	6685	1.57(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:35	32:35	-1	1.273	7735175	793073	191	477	4152		M
327.8775	32:35	32:35	-1	1.273	4927695	514733	77	192	6685	1.57(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:35	32:35	-1	1.273	7735175	793073	191	477	4152		M
327.8775	32:35	32:35	-1	1.273	4927695	514733	77	192	6685	1.57(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-119 (C86)											M
325.8804	32:35	32:35	-1	1.273	7735175	793073	191	477	4152		M
327.8775	32:35	32:35	-1	1.273	4927695	514733	77	192	6685	1.57(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:35	32:35	-1	1.273	7735175	793073	191	477	4152		M
327.8775	32:35	32:35	-1	1.273	4927695	514733	77	192	6685	1.57(1.32-1.78)	M
PCB-85											
325.8804	33:19	33:19	0	1.301	3787514	453330	191	477	2373		
327.8775	33:19	33:19	0	1.301	2364331	294674	77	192	3827	1.60(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:19	33:19	0	1.301	3787514	453330	191	477	2373		
327.8775	33:19	33:19	0	1.301	2364331	294674	77	192	3827	1.60(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:19	33:19	0	1.301	3787514	453330	191	477	2373		
327.8775	33:19	33:19	0	1.301	2364331	294674	77	192	3827	1.60(1.32-1.78)	
PCB-110											
325.8804	33:32	33:32	0	1.310	3364045	414364	191	477	2169		
327.8775	33:32	33:32	0	1.310	2088456	252119	77	192	3274	1.61(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:32	33:32	0	1.310	3364045	414364	191	477	2169		
327.8775	33:32	33:32	0	1.310	2088456	252119	77	192	3274	1.61(1.32-1.78)	
PCB-82											
325.8804	33:49	33:49	0	1.321	1098853	208658	191	477	1092		
327.8775	33:49	33:49	0	1.321	685362	132314	77	192	1718	1.60(1.32-1.78)	
PCB-111											
325.8804	34:12	34:13	-1	1.336	1483728	298971	191	477	1565		
327.8775	34:12	34:13	-1	1.336	942703	189629	77	192	2463	1.57(1.32-1.78)	
PCB-120											
325.8804	34:40	34:41	-1	1.354	1877661	376302	191	477	1970		
327.8775	34:40	34:41	-1	1.354	1158537	220165	77	192	2859	1.62(1.32-1.78)	
PCB-108											
325.8804	35:48	35:49	-1	1.399	4104584	769429	2439	6097	315		
327.8775	35:47	35:49	-1	1.398	2632681	491689	1995	4987	246	1.56(1.32-1.78)	
PCB-124 (C108)											
325.8804	35:48	35:49	-1	1.399	4104584	769429	2439	6097	315		
327.8775	35:47	35:49	-1	1.398	2632681	491689	1995	4987	246	1.56(1.32-1.78)	
PCB-107											
325.8804	36:02	36:03	-1	1.408	2378936	425242	2439	6097	174		
327.8775	36:02	36:03	-1	1.408	1516242	269470	1995	4987	135	1.57(1.32-1.78)	
PCB-123											
325.8804	36:10	36:10	-1	1.001	1870421	394741	2439	6097	162		
327.8775	36:10	36:10	-1	1.001	1196466	251424	1995	4987	126	1.56(1.32-1.78)	
PCB-106											
325.8804	36:16	36:17	-1	1.004	2171652	419815	2439	6097	172		
327.8775	36:16	36:17	-1	1.004	1381150	275205	1995	4987	138	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118											
325.8804	36:29	36:30	-1	1.001	2110044	387733	2439	6097	159		
327.8775	36:29	36:30	-1	1.001	1344670	246606	1995	4987	124	1.57(1.32-1.78)	
PCB-122											
325.8804	36:50	36:50	-1	1.010	1771190	342539	2439	6097	140		
327.8775	36:50	36:50	-1	1.010	1109784	213817	1995	4987	107	1.60(1.32-1.78)	
PCB-114											
325.8804	37:00	37:01	-1	1.000	2014769	367509	2439	6097	151		
327.8775	37:00	37:01	-1	1.000	1275140	237033	1995	4987	119	1.58(1.32-1.78)	
PCB-105											
325.8804	37:40	37:40	-1	1.001	2001637	361035	2439	6097	148		
327.8775	37:40	37:40	-1	1.001	1261787	223694	1995	4987	112	1.59(1.32-1.78)	
PCB-127											
325.8804	39:08	39:09	-1	1.040	2273023	413310	2439	6097	169		
327.8775	39:08	39:09	-1	1.040	1506013	282548	1995	4987	142	1.51(1.32-1.78)	
PCB-126											
325.8804	40:44	40:45	-1	1.000	2318414	391994	2439	6097	161		
327.8775	40:44	40:45	-1	1.000	1511392	255851	1995	4987	128	1.53(1.32-1.78)	
PCB-155L											
371.8817	31:16	31:17	-1	0.790	2149799	450848	69	172	6534		
373.8788	31:16	31:17	-1	0.790	1637537	333564	72	180	4633	1.31(1.05-1.43)	
PCB-138L											
371.8817	39:35	39:35	-1		2913810	567265	1544	3860	367		
373.8788	39:35	39:35	-1		2272172	436882	94	235	4648	1.28(1.05-1.43)	
PCB-167L											
371.8817	42:35	42:35	-1	1.076	3144473	600194	1544	3860	389		
373.8788	42:35	42:35	-1	1.076	2464482	467993	94	235	4979	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:43	43:44	-1	1.105	6203030	822173	1544	3860	532		
373.8788	43:44	43:44	0	1.105	4825376	638953	94	235	6797	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:43	43:44	-1	1.105	6203030	822173	1544	3860	532		
373.8788	43:44	43:44	0	1.105	4825376	638953	94	235	6797	1.29(1.05-1.43)	
PCB-169L											
371.8817	46:57	46:58	-1	1.186	3230540	601754	1544	3860	390		
373.8788	46:57	46:58	-1	1.186	2558513	473022	94	235	5032	1.26(1.05-1.43)	
PCB-155											
359.8415	31:18	31:18	-1	1.001	960399	206037	64	160	3219		
361.8385	31:18	31:18	-1	1.001	766420	162509	86	215	1890	1.25(1.05-1.43)	
PCB-152											
359.8415	31:29	31:30	-1	1.007	1192385	242817	64	160	3794		
361.8385	31:29	31:30	-1	1.007	942667	188730	86	215	2195	1.26(1.05-1.43)	
PCB-150											
359.8415	31:40	31:40	-1	1.013	1064209	217465	64	160	3398		
361.8385	31:39	31:40	-1	1.012	842407	171375	86	215	1993	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-136											
359.8415	32:01	32:02	0	1.024	1009800	199483	64	160	3117		
361.8385	32:01	32:02	0	1.024	797632	163072	86	215	1896	1.27(1.05-1.43)	
PCB-145											
359.8415	32:19	32:20	0	1.034	1147083	229120	64	160	3580		
361.8385	32:19	32:20	0	1.034	922596	184939	86	215	2150	1.24(1.05-1.43)	
PCB-148											
359.8415	33:50	33:50	0	1.082	808614	160084	64	160	2501		
361.8385	33:50	33:50	0	1.082	609637	120946	86	215	1406	1.33(1.05-1.43)	
PCB-135											
359.8415	34:28	34:29	3	1.102	1587058	183160	64	160	2862		
361.8385	34:28	34:29	3	1.102	1272441	142792	86	215	1660	1.25(1.05-1.43)	
PCB-151 (C135)											
359.8415	34:28	34:29	3	1.102	1587058	183160	64	160	2862		
361.8385	34:28	34:29	3	1.102	1272441	142792	86	215	1660	1.25(1.05-1.43)	
PCB-154											
359.8415	34:40	34:41	0	1.109	869872	169708	64	160	2652		
361.8385	34:40	34:41	0	1.109	658738	132839	86	215	1545	1.32(1.05-1.43)	
PCB-144											
359.8415	34:59	34:59	0	1.119	795014	152150	64	160	2377		
361.8385	34:59	34:59	0	1.119	635626	127550	86	215	1483	1.25(1.05-1.43)	
PCB-147											
359.8415	35:20	35:20	-1	1.130	2538779	542198	1093	2732	496		M
361.8385	35:20	35:20	-1	1.130	1998114	427895	730	1825	586	1.27(1.05-1.43)	M
PCB-149 (C147)											
359.8415	35:20	35:20	-1	1.130	2538779	542198	1093	2732	496		M
361.8385	35:20	35:20	-1	1.130	1998114	427895	730	1825	586	1.27(1.05-1.43)	M
PCB-134											
359.8415	35:39	35:39	-1	1.140	2152282	240155	1093	2732	220		
361.8385	35:39	35:39	-1	1.140	1717525	176358	730	1825	242	1.25(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:39	35:39	-1	1.140	2152282	240155	1093	2732	220		
361.8385	35:39	35:39	-1	1.140	1717525	176358	730	1825	242	1.25(1.05-1.43)	
PCB-139											
359.8415	35:56	35:57	-1	1.149	2638771	480045	1093	2732	439		
361.8385	35:56	35:57	-1	1.149	2088893	372434	730	1825	510	1.26(1.05-1.43)	
PCB-140 (C139)											
359.8415	35:56	35:57	-1	1.149	2638771	480045	1093	2732	439		
361.8385	35:56	35:57	-1	1.149	2088893	372434	730	1825	510	1.26(1.05-1.43)	
PCB-131											
359.8415	36:08	36:09	-1	1.156	1075159	210273	1093	2732	192		
361.8385	36:09	36:09	-1	1.156	863897	169190	730	1825	232	1.24(1.05-1.43)	
PCB-142											
359.8415	36:17	36:18	-1	1.160	1079177	209224	1093	2732	191		
361.8385	36:17	36:18	-1	1.161	851011	160600	730	1825	220	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-132											
359.8415	36:36	36:37	-1	1.171	1172394	232053	1093	2732	212		
361.8385	36:36	36:37	-1	1.171	918023	173219	730	1825	237	1.28(1.05-1.43)	
PCB-133											
359.8415	37:06	37:07	-1	1.187	1247596	247125	1093	2732	226		
361.8385	37:06	37:07	-1	1.187	981150	186103	730	1825	255	1.27(1.05-1.43)	
PCB-165											
359.8415	37:30	37:31	-1	0.881	1453043	293301	1093	2732	268		
361.8385	37:30	37:31	-1	0.881	1164200	230405	730	1825	316	1.25(1.05-1.43)	
PCB-146											
359.8415	37:45	37:46	-1	0.887	1402042	285048	1093	2732	261		
361.8385	37:45	37:46	-1	0.887	1204223	237445	730	1825	325	1.16(1.05-1.43)	
PCB-161											
359.8415	37:53	37:54	-1	0.890	1863369	340938	1093	2732	312		
361.8385	37:53	37:54	-1	0.890	1382651	274233	730	1825	376	1.35(1.05-1.43)	
PCB-153											
359.8415	38:23	38:24	-1	0.901	3171585	466591	1093	2732	427		
361.8385	38:23	38:24	-1	0.901	2586078	369899	730	1825	507	1.23(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:23	38:24	-1	0.901	3171585	466591	1093	2732	427		
361.8385	38:23	38:24	-1	0.901	2586078	369899	730	1825	507	1.23(1.05-1.43)	
PCB-141											
359.8415	38:33	38:34	-1	0.905	1264383	227694	1093	2732	208		
361.8385	38:33	38:34	-1	0.905	999069	180829	730	1825	248	1.27(1.05-1.43)	
PCB-130											
359.8415	38:58	38:58	-1	0.915	997966	201681	1093	2732	185		
361.8385	38:58	38:58	-1	0.915	811308	161190	730	1825	221	1.23(1.05-1.43)	
PCB-137											
359.8415	39:11	39:12	-1	0.920	1217875	242055	1093	2732	221		
361.8385	39:11	39:12	-1	0.920	932070	183660	730	1825	252	1.31(1.05-1.43)	
PCB-164											
359.8415	39:19	39:19	0	0.923	1730261	313499	1093	2732	287		
361.8385	39:19	39:19	0	0.923	1394819	255161	730	1825	350	1.24(1.05-1.43)	
PCB-129											
359.8415	39:37	39:37	-1	0.930	5503905	633638	1093	2732	580		M
361.8385	39:37	39:37	-1	0.930	4290561	492512	730	1825	675	1.28(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:37	39:37	-1	0.930	5503905	633638	1093	2732	580		M
361.8385	39:37	39:37	-1	0.930	4290561	492512	730	1825	675	1.28(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:37	39:37	-1	0.930	5503905	633638	1093	2732	580		M
361.8385	39:37	39:37	-1	0.930	4290561	492512	730	1825	675	1.28(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:37	39:37	-1	0.930	5503905	633638	1093	2732	580		M
361.8385	39:37	39:37	-1	0.930	4290561	492512	730	1825	675	1.28(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-158											
359.8415	39:59	40:00	-1	0.939	1776221	313312	1093	2732	287		
361.8385	39:59	40:00	-1	0.939	1431853	262852	730	1825	360	1.24(1.05-1.43)	
PCB-128											
359.8415	40:50	40:51	-1	0.959	3057500	448361	1093	2732	410		
361.8385	40:50	40:51	-1	0.959	2467854	351933	730	1825	482	1.24(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:50	40:51	-1	0.959	3057500	448361	1093	2732	410		
361.8385	40:50	40:51	-1	0.959	2467854	351933	730	1825	482	1.24(1.05-1.43)	
PCB-159											
359.8415	41:50	41:51	-1	0.983	2029829	387189	1093	2732	354		
361.8385	41:50	41:51	-1	0.983	1656549	318828	730	1825	437	1.23(1.05-1.43)	
PCB-162											
359.8415	42:08	42:08	-1	0.990	1856377	332232	1093	2732	304		
361.8385	42:08	42:08	-1	0.990	1446840	259018	730	1825	355	1.28(1.05-1.43)	
PCB-167											
359.8415	42:36	42:37	-1	1.001	1719956	316591	1093	2732	290		
361.8385	42:36	42:37	-1	1.001	1361824	250650	730	1825	343	1.26(1.05-1.43)	
PCB-156											
359.8415	43:45	43:46	-1	1.001	3245958	420366	1093	2732	385		
361.8385	43:46	43:46	-1	1.001	2602589	336287	730	1825	461	1.25(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:45	43:46	-1	1.001	3245958	420366	1093	2732	385		
361.8385	43:46	43:46	-1	1.001	2602589	336287	730	1825	461	1.25(1.05-1.43)	
PCB-169											
359.8415	46:58	46:59	-1	1.000	2023048	350224	1093	2732	320		
361.8385	46:58	46:59	-1	1.000	1612006	282213	730	1825	387	1.25(1.05-1.43)	
PCB-188L											
405.8428	36:59	37:00	-1	0.820	2354846	458265	80	200	5728		
407.8398	36:59	37:00	-1	0.820	2189053	433777	45	112	9639	1.08(0.89-1.21)	
PCB-178L											
405.8428	40:02	40:03	-1	0.887	1842336	349290	80	200	4366		
407.8398	40:02	40:03	-1	0.887	1712902	315783	45	112	7017	1.08(0.89-1.21)	
PCB-180L											
405.8428	45:07	45:08	-1		2116559	406956	80	200	5087		
407.8398	45:07	45:08	-1		1992027	370174	45	112	8226	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:23	46:23	-1	1.028	1645036	302598	80	200	3782		
407.8398	46:22	46:23	-1	1.028	1509235	289043	45	112	6423	1.09(0.89-1.21)	
PCB-189L											
405.8428	49:28	49:29	-1	1.097	3563595	653672	596	1490	1097		
407.8398	49:28	49:29	-1	1.097	3436294	639695	533	1332	1200	1.04(0.89-1.21)	
PCB-188											
393.8025	37:00	37:01	-1	1.000	1231377	242139	47	117	5152		
395.7995	37:01	37:01	-1	1.001	1197558	234650	51	127	4601	1.03(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-179											
393.8025	37:21	37:22	-1	1.010	1346209	254944	47	117	5424		
395.7995	37:21	37:22	-1	1.010	1295716	252621	51	127	4953	1.04(0.89-1.21)	
PCB-184											
393.8025	37:52	37:53	-1	1.024	1277228	250851	47	117	5337		
395.7995	37:52	37:53	-1	1.024	1207116	242156	51	127	4748	1.06(0.89-1.21)	
PCB-176											
393.8025	38:13	38:14	-1	1.033	1209350	229677	47	117	4887		
395.7995	38:13	38:14	-1	1.033	1117751	219702	51	127	4308	1.08(0.89-1.21)	
PCB-186											
393.8025	38:41	38:42	-1	1.046	1414703	261496	47	117	5564		
395.7995	38:40	38:42	-1	1.046	1338634	253803	51	127	4977	1.06(0.89-1.21)	
PCB-178											
393.8025	40:04	40:05	-1	1.083	893227	165363	47	117	3518		
395.7995	40:04	40:05	-1	1.083	867728	163707	51	127	3210	1.03(0.89-1.21)	
PCB-175											
393.8025	40:42	40:42	-1	1.100	882958	176213	47	117	3749		
395.7995	40:42	40:42	-1	1.100	871445	167352	51	127	3281	1.01(0.89-1.21)	
PCB-187											
393.8025	40:58	40:58	0	1.108	1103224	217320	47	117	4624		
395.7995	40:58	40:58	-1	1.107	1050528	198759	51	127	3897	1.05(0.89-1.21)	
PCB-182											
393.8025	41:10	41:11	-1	1.113	1109818	204701	47	117	4355		
395.7995	41:10	41:11	-1	1.113	1037397	201845	51	127	3958	1.07(0.89-1.21)	
PCB-183											
393.8025	41:35	41:35	-1	1.124	1903887	200336	47	117	4262		M
395.7995	41:35	41:35	-1	1.124	1813067	187093	51	127	3668	1.05(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:35	41:35	-1	1.124	1903887	200336	47	117	4262		M
395.7995	41:35	41:35	-1	1.124	1813067	187093	51	127	3668	1.05(0.89-1.21)	M
PCB-174											
393.8025	41:49	41:49	-1	1.131	1001013	182763	47	117	3889		
395.7995	41:49	41:49	-1	1.131	938810	172557	51	127	3383	1.07(0.89-1.21)	
PCB-177											
393.8025	42:15	42:16	-1	1.142	1016563	180441	47	117	3839		
395.7995	42:15	42:16	-1	1.142	939234	172068	51	127	3374	1.08(0.89-1.21)	
PCB-181											
393.8025	42:39	42:38	0	1.153	1035284	198230	47	117	4218		
395.7995	42:38	42:38	-1	1.153	954956	183117	51	127	3591	1.08(0.89-1.21)	
PCB-171											
393.8025	42:51	42:52	-1	1.159	1772494	298888	47	117	6359		
395.7995	42:51	42:52	-1	1.159	1684198	289990	51	127	5686	1.05(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:51	42:52	-1	1.159	1772494	298888	47	117	6359		
395.7995	42:51	42:52	-1	1.159	1684198	289990	51	127	5686	1.05(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-172											
393.8025	44:30	44:31	-1	0.899	932734	175759	47	117	3740		
395.7995	44:30	44:31	-1	0.899	886237	170041	51	127	3334	1.05(0.89-1.21)	
PCB-192											
393.8025	44:46	44:46	-1	0.905	1387249	257560	47	117	5480		
395.7995	44:46	44:46	0	0.905	1308481	246199	51	127	4827	1.06(0.89-1.21)	
PCB-180											
393.8025	45:07	45:07	0	0.912	2318441	303650	47	117	6461		
395.7995	45:06	45:07	-1	0.912	2183070	294651	51	127	5777	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:07	45:07	0	0.912	2318441	303650	47	117	6461		
395.7995	45:06	45:07	-1	0.912	2183070	294651	51	127	5777	1.06(0.89-1.21)	
PCB-191											
393.8025	45:30	45:30	-1	0.920	1248725	229167	47	117	4876		
395.7995	45:30	45:30	-1	0.920	1157387	221226	51	127	4338	1.08(0.89-1.21)	
PCB-170											
393.8025	46:23	46:24	-1	0.938	866995	156015	47	117	3319		
395.7995	46:23	46:24	-1	0.938	824359	154580	51	127	3031	1.05(0.89-1.21)	
PCB-190											
393.8025	46:55	46:56	-1	0.948	1219062	226535	47	117	4820		
395.7995	46:55	46:56	-1	0.948	1165353	214565	51	127	4207	1.05(0.89-1.21)	
PCB-189											
393.8025	49:30	49:30	-1	1.001	1789811	335974	382	955	880		
395.7995	49:30	49:30	-1	1.001	1639248	300375	389	972	772	1.09(0.89-1.21)	
PCB-202L											
439.8038	42:21	42:21	0	0.821	1655572	310949	57	142	5455		
441.8008	42:21	42:21	0	0.821	1850771	353178	32	80	11037	0.89(0.76-1.02)	
PCB-194L											
439.8038	51:36	51:36	0		2705648	488903	188	470	2601		
441.8008	51:35	51:36	-1		2904602	527869	160	400	3299	0.93(0.76-1.02)	
PCB-205L											
439.8038	52:03	52:04	-1	1.009	2832025	524152	188	470	2788		
441.8008	52:03	52:04	-1	1.009	3171422	578840	160	400	3618	0.89(0.76-1.02)	
PCB-202											
427.7635	42:23	42:23	-1	1.001	891884	170644	88	220	1939		
429.7606	42:23	42:23	-1	1.001	970319	181912	58	145	3136	0.92(0.76-1.02)	
PCB-201											
427.7635	43:17	43:18	-1	1.022	798458	147487	88	220	1676		
429.7606	43:17	43:18	-1	1.022	906462	174910	58	145	3016	0.88(0.76-1.02)	
PCB-204											
427.7635	43:57	43:58	-1	1.038	901337	167825	88	220	1907		
429.7606	43:57	43:58	-1	1.038	1067534	206411	58	145	3559	0.84(0.76-1.02)	
PCB-197											
427.7635	44:12	44:12	0	1.043	933452	176253	88	220	2003		
429.7606	44:12	44:12	0	1.043	1030326	187732	58	145	3237	0.91(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-200											
427.7635	44:18	44:19	-1	1.046	834591	160210	88	220	1821		
429.7606	44:18	44:19	-1	1.046	926607	184955	58	145	3189	0.90(0.76-1.02)	
PCB-198											
427.7635	47:04	47:05	-1	1.111	1485692	184492	88	220	2097		
429.7606	47:04	47:05	-1	1.111	1652773	206047	58	145	3553	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:04	47:05	-1	1.111	1485692	184492	88	220	2097		
429.7606	47:04	47:05	-1	1.111	1652773	206047	58	145	3553	0.90(0.76-1.02)	
PCB-196											
427.7635	47:45	47:45	0	0.917	663752	131652	88	220	1496		
429.7606	47:45	47:45	0	0.917	771945	147360	58	145	2541	0.86(0.76-1.02)	
PCB-203											
427.7635	47:57	47:57	-1	0.921	862346	162424	88	220	1846		
429.7606	47:57	47:57	-1	0.921	935510	173704	58	145	2995	0.92(0.76-1.02)	
PCB-195											
427.7635	49:16	49:17	-1	0.946	1183816	214136	503	1257	426		
429.7606	49:16	49:17	-1	0.946	1311002	246622	531	1327	464	0.90(0.76-1.02)	
PCB-194											
427.7635	51:36	51:37	-1	0.991	1330748	246767	503	1257	491		
429.7606	51:36	51:37	-1	0.991	1536529	276918	531	1327	522	0.87(0.76-1.02)	
PCB-205											
427.7635	52:05	52:05	0	1.000	1603260	294736	503	1257	586		
429.7606	52:05	52:05	0	1.000	1733000	320868	531	1327	604	0.93(0.76-1.02)	
PCB-208L											
473.7648	49:01	49:01	-1	0.950	2294027	429844	529	1322	813		
475.7619	49:01	49:01	-1	0.950	2844553	525484	529	1322	993	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:49	53:49	-1	1.043	1688911	314650	529	1322	595		
475.7619	53:49	53:49	-1	1.043	2130581	398685	529	1322	754	0.79(0.65-0.89)	
PCB-208											
461.7246	49:02	49:02	0	1.001	1169304	217180	422	1055	515		
463.7216	49:02	49:02	0	1.001	1490159	272212	705	1762	386	0.78(0.65-0.89)	
PCB-207											
461.7246	49:57	49:58	-1	1.019	1193662	219772	422	1055	521		
463.7216	49:57	49:58	-1	1.019	1519945	281112	705	1762	399	0.79(0.65-0.89)	
PCB-206											
461.7246	53:49	53:50	-1	1.000	1036106	186461	422	1055	442		
463.7216	53:49	53:50	-1	1.000	1359760	246585	705	1762	350	0.76(0.65-0.89)	
PCB-209L											
507.7258	55:25	55:26	-1	1.074	1669055	290723	90	225	3230		
509.7229	55:25	55:26	-1	1.074	2299308	404183	113	282	3577	0.73(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:27	55:28	-1	1.000	840139	144712	134	335	1080		
497.6826	55:27	55:28	-1	1.000	1170326	196490	120	300	1637	0.72(0.59-0.79)	

QC Flag Legend

Processing Flags

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

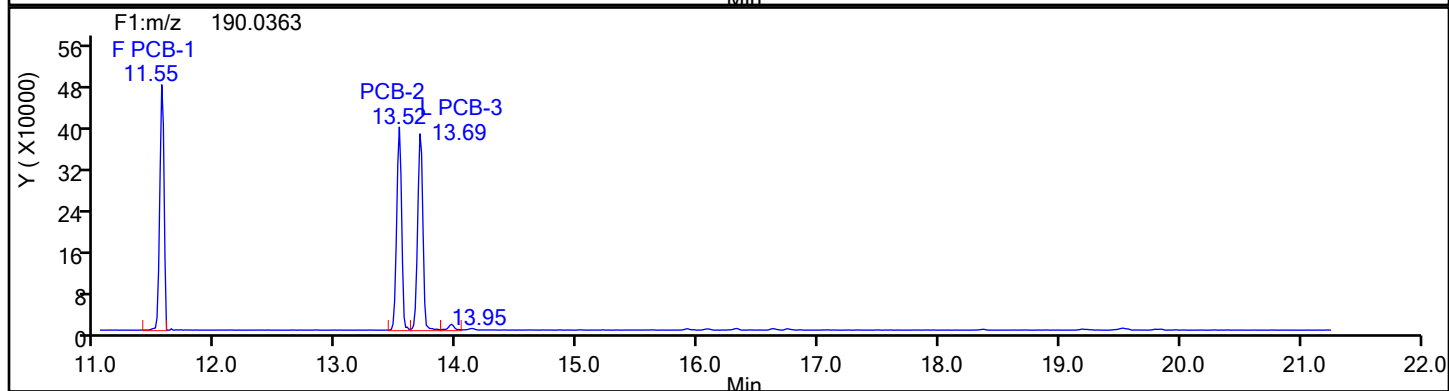
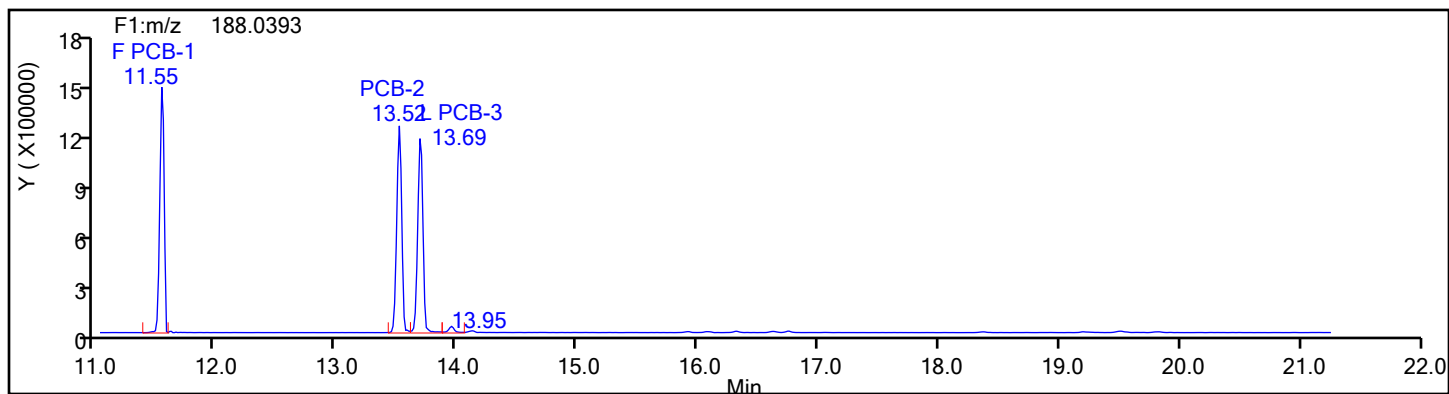
Worklist#: 87502

Sample Line#: 3

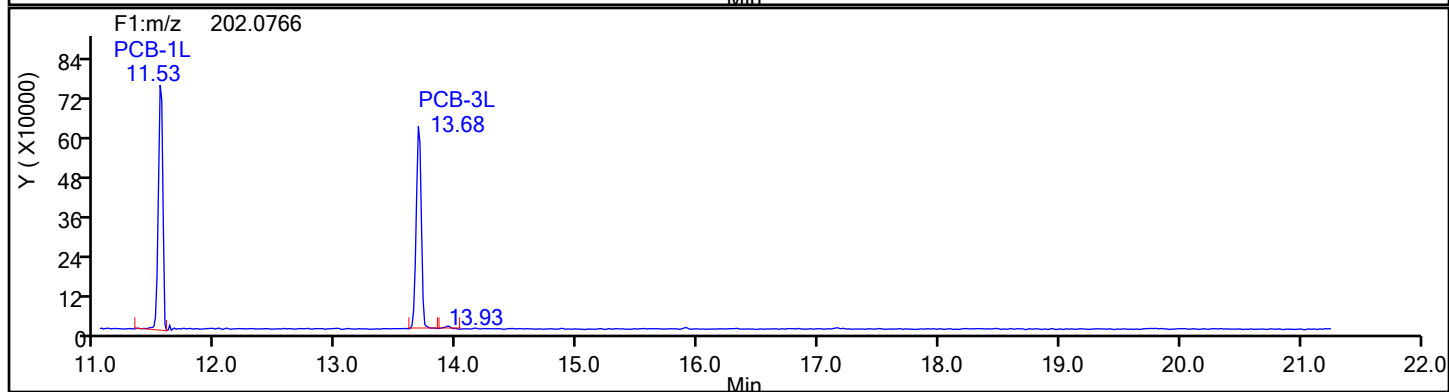
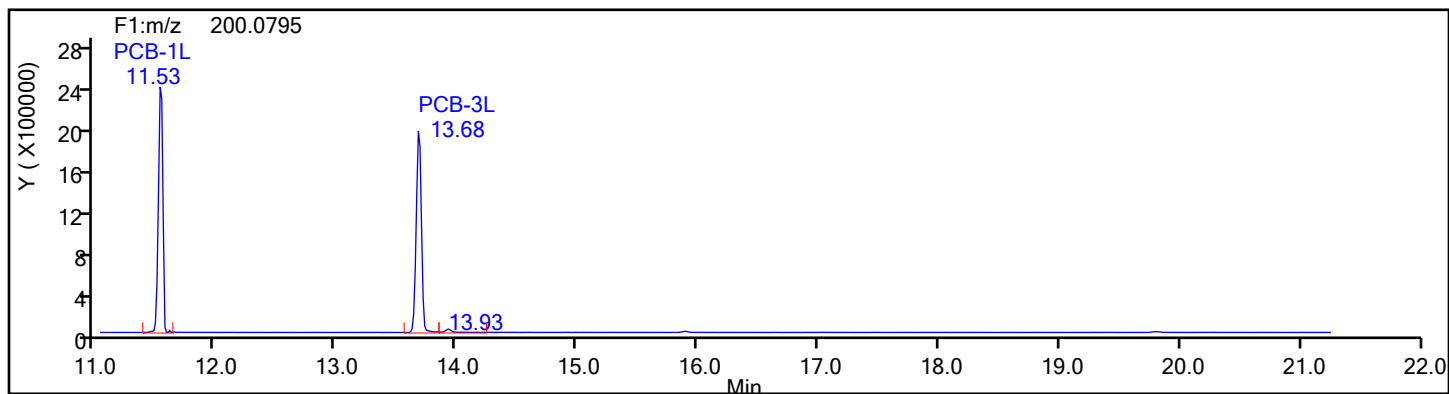
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

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Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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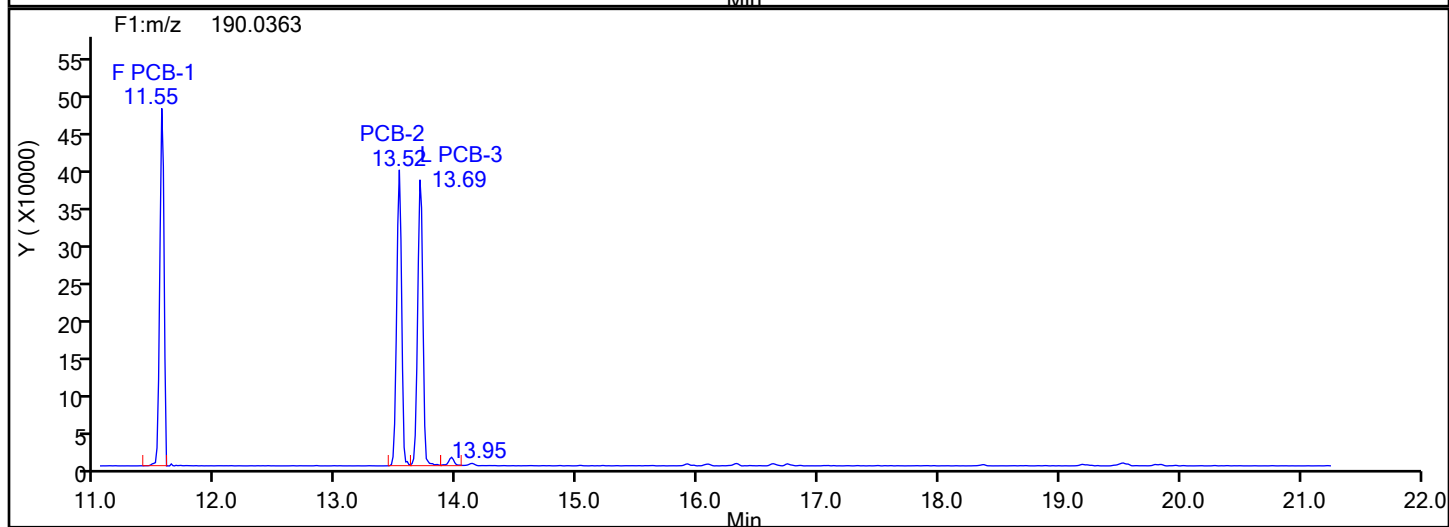
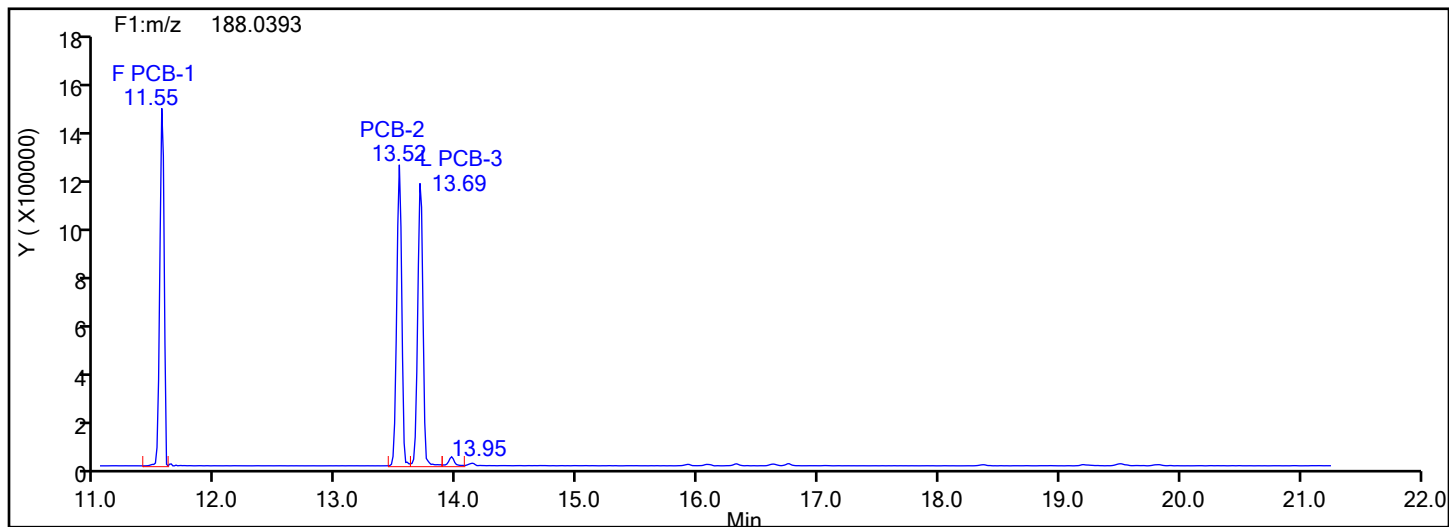
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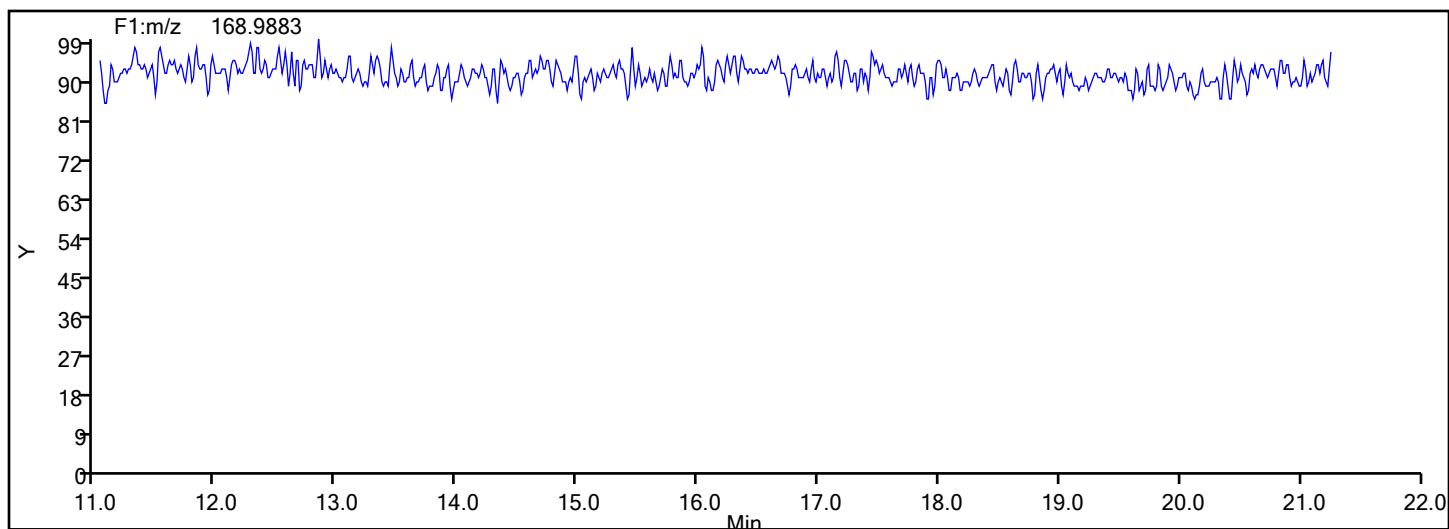
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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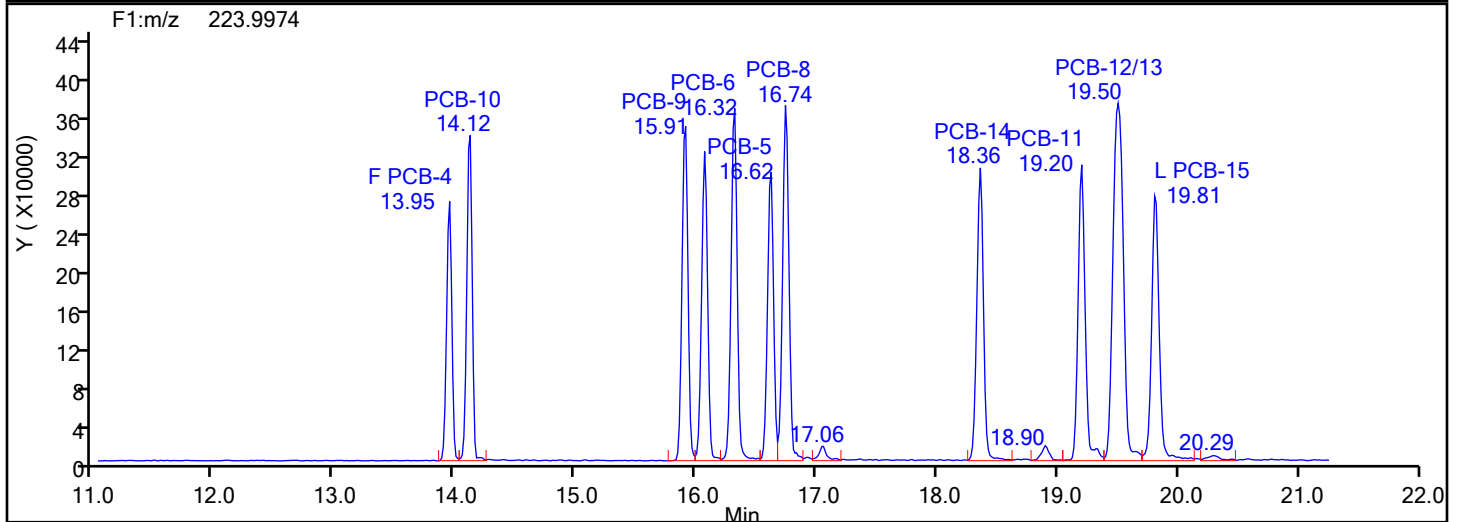
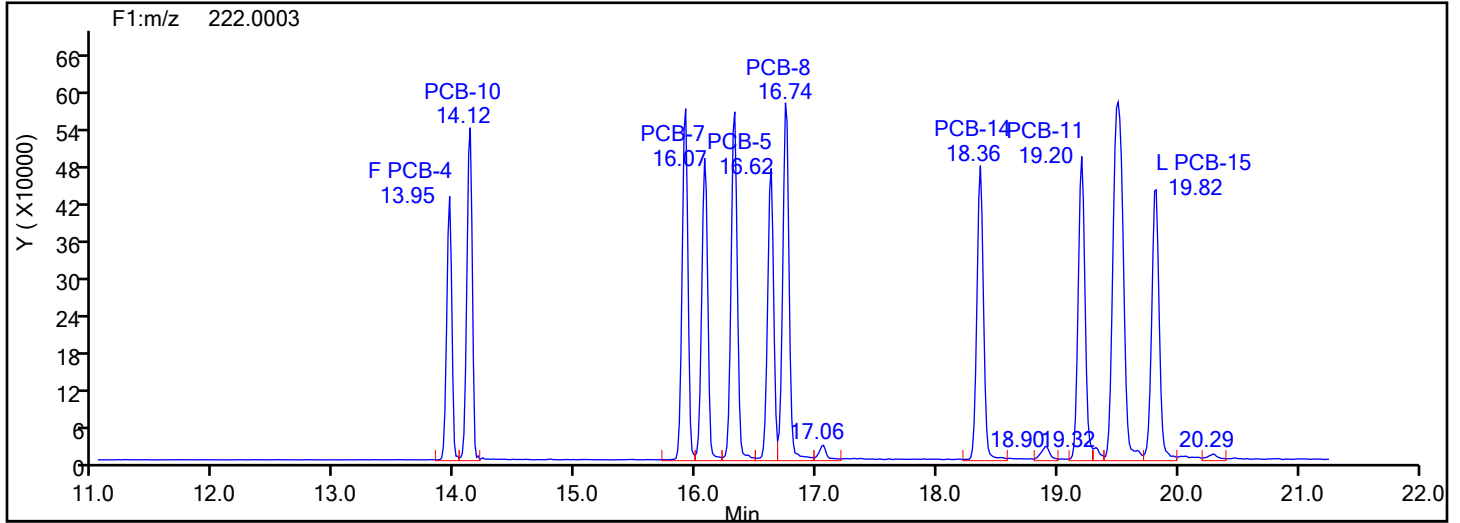
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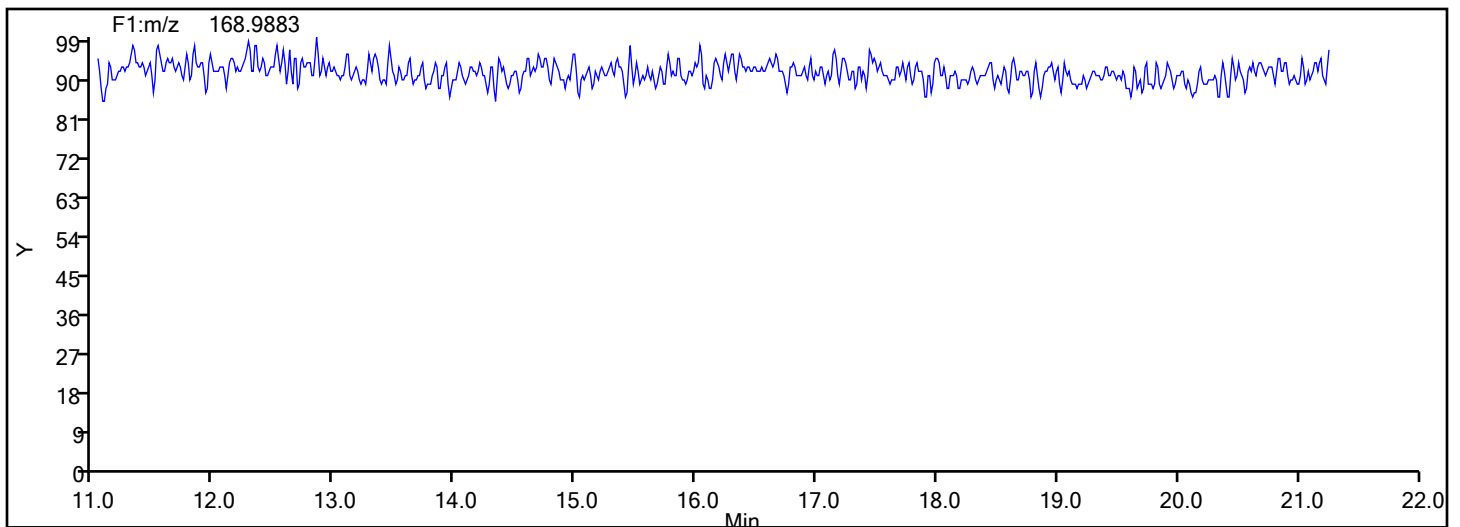
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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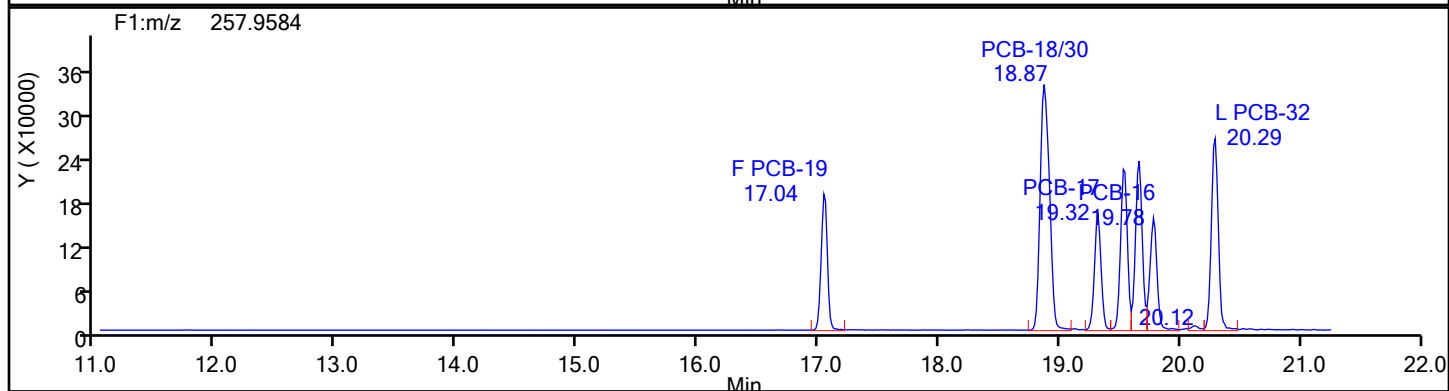
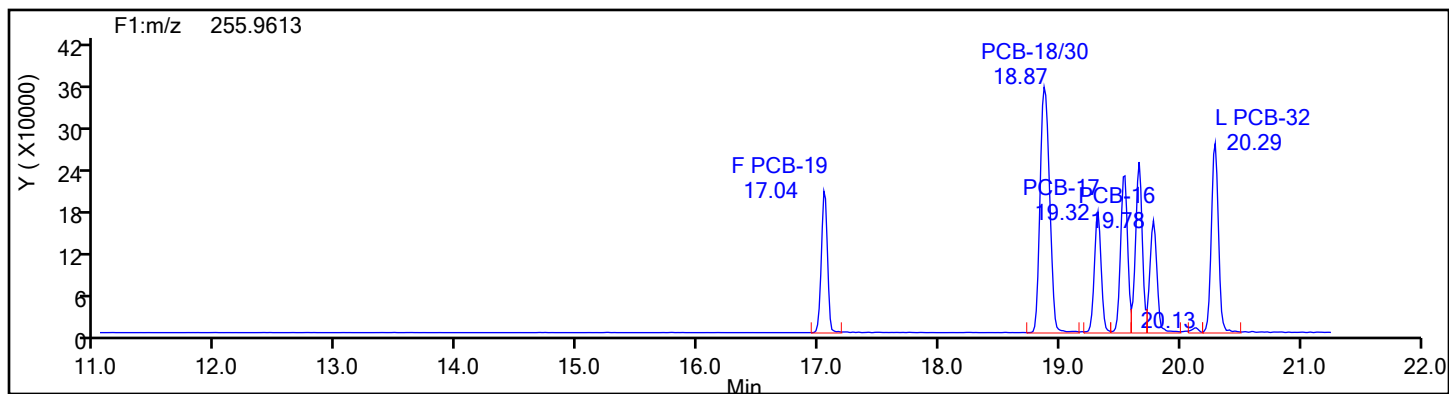
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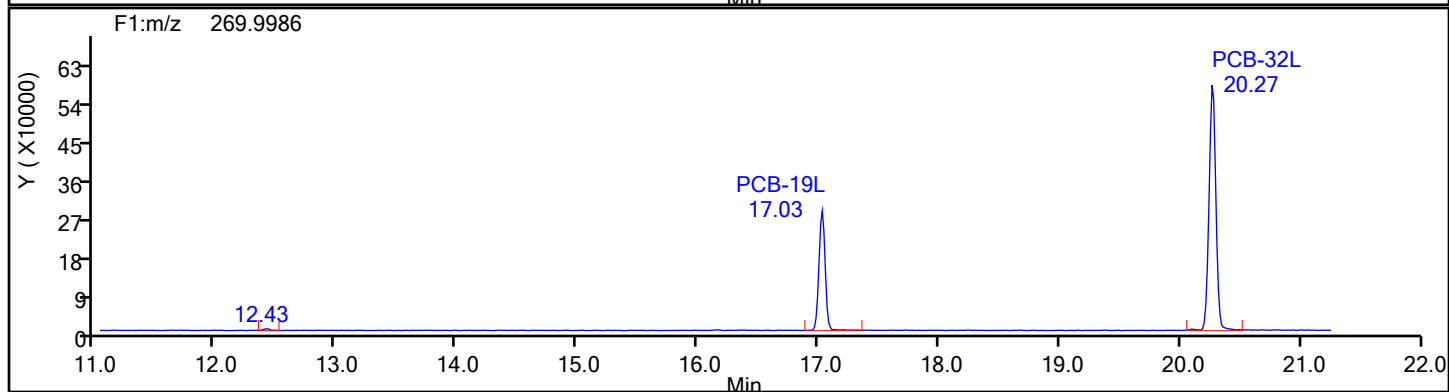
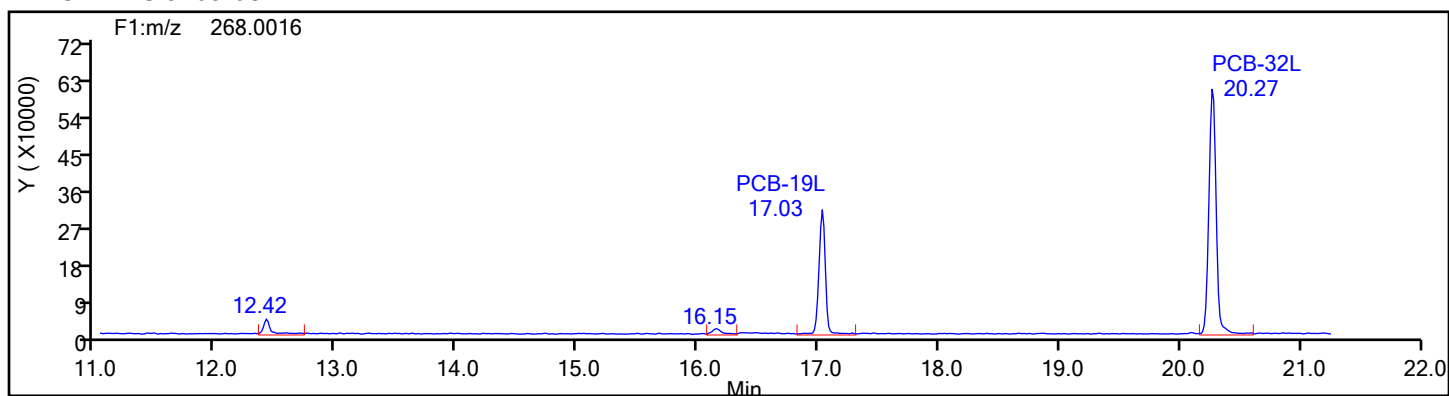
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1

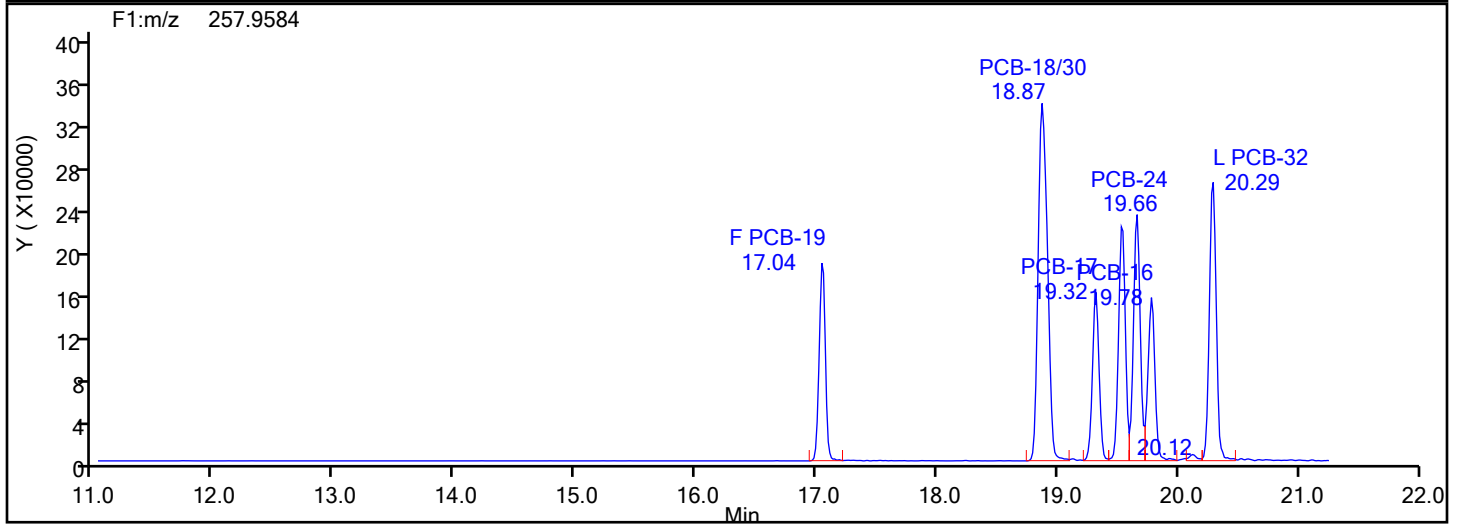
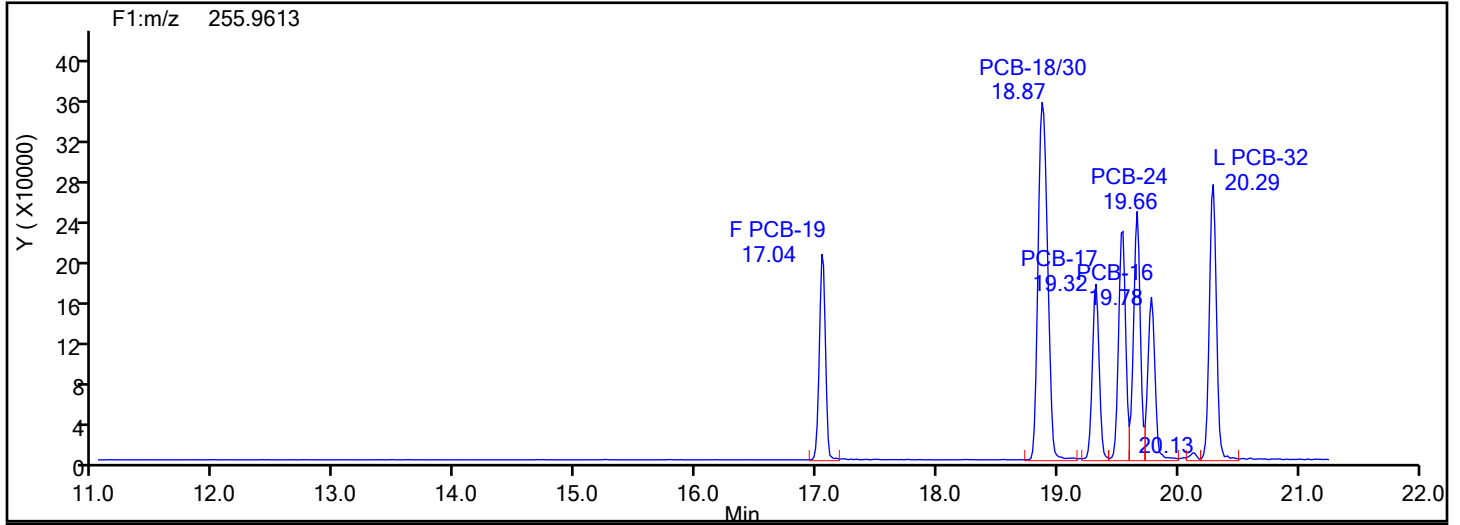


TriPCB F1 Standards

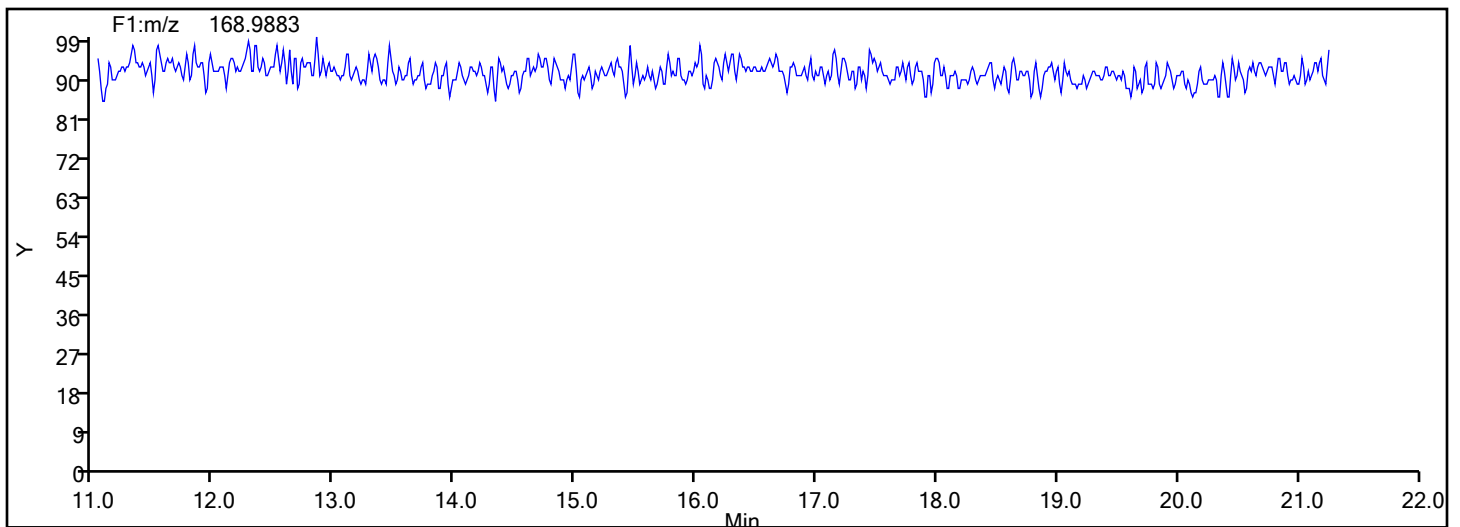


Eurofins Knoxville

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Injection Date: 11-Jun-2024 12:17:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87502 Sample Line#: 3
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

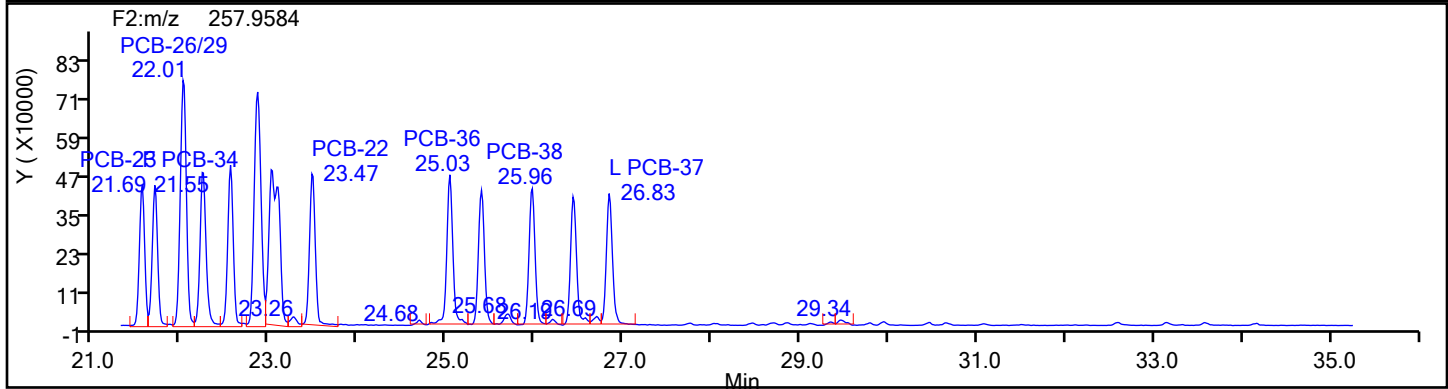
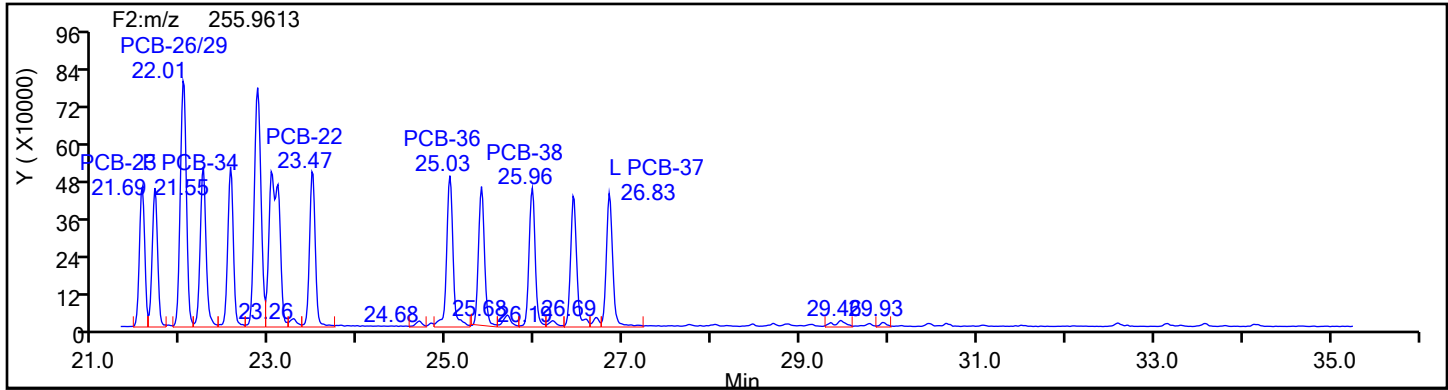
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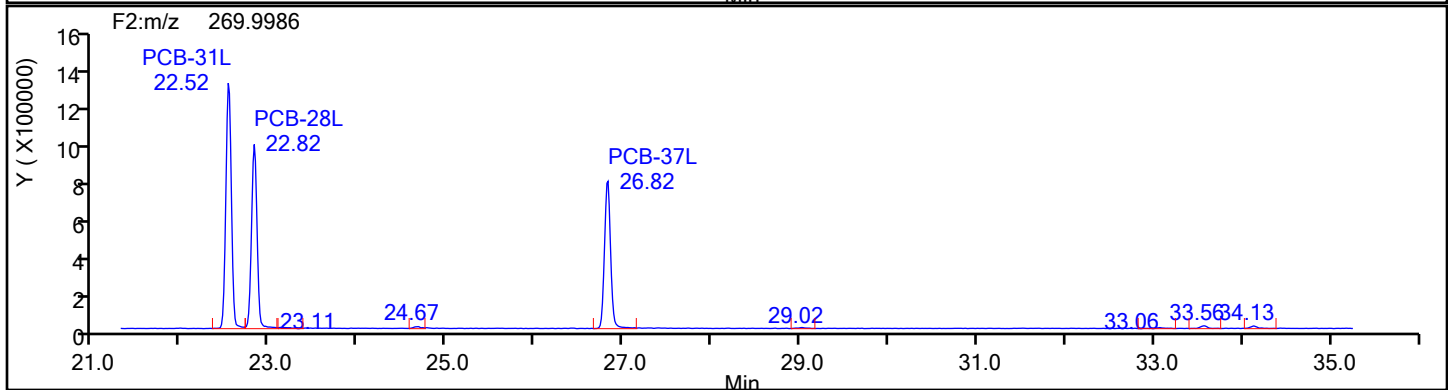
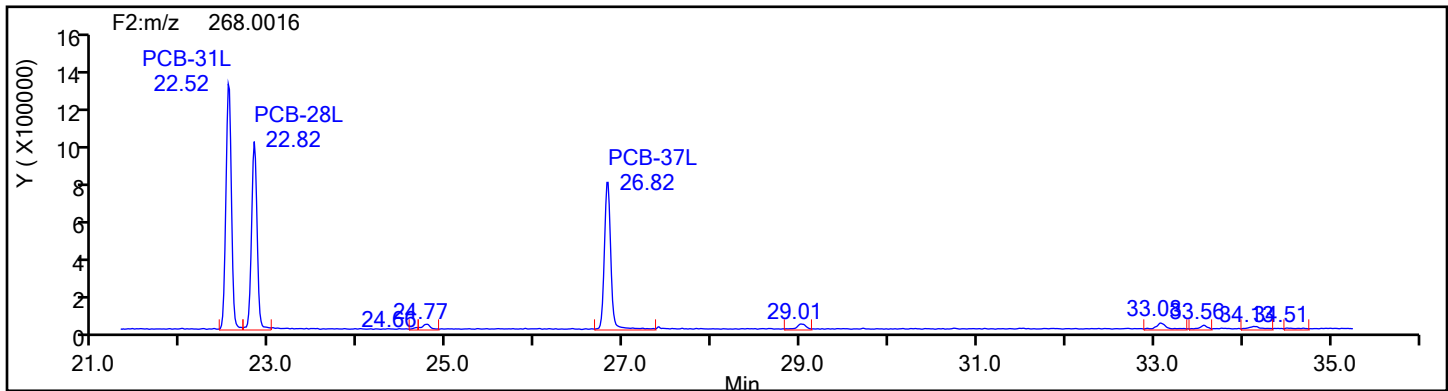
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

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Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

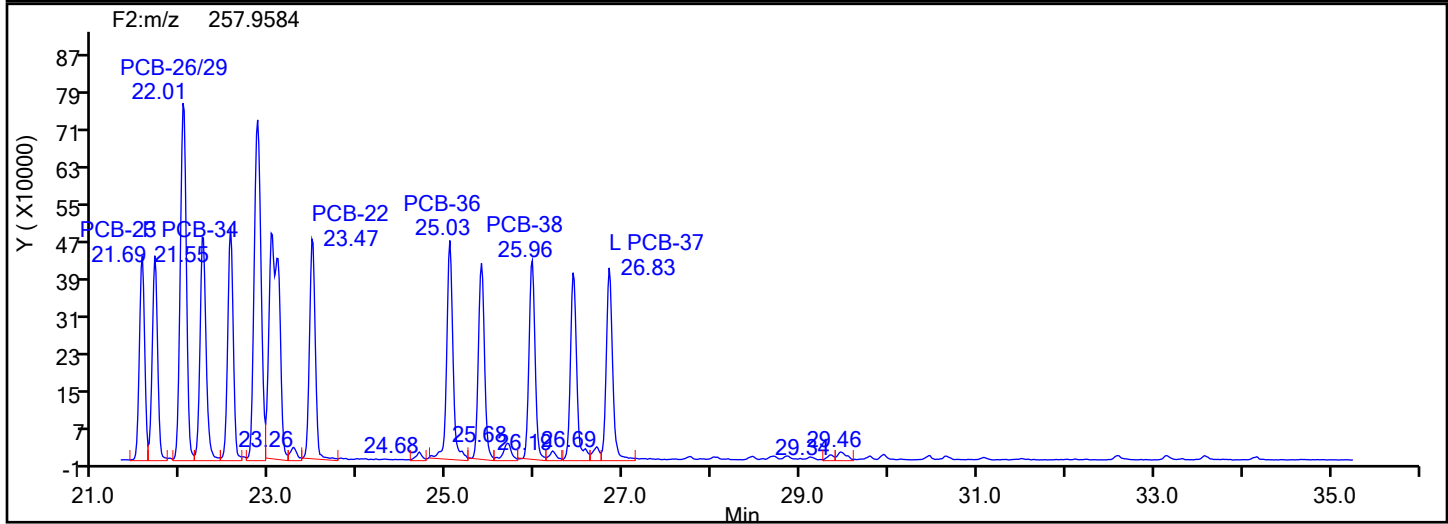
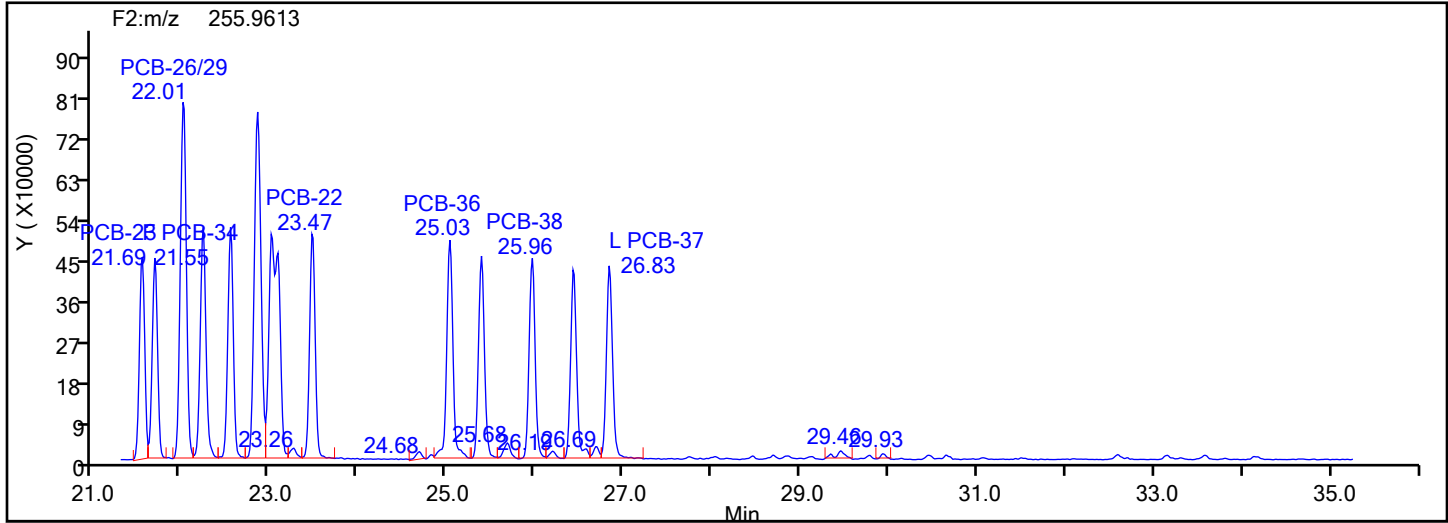
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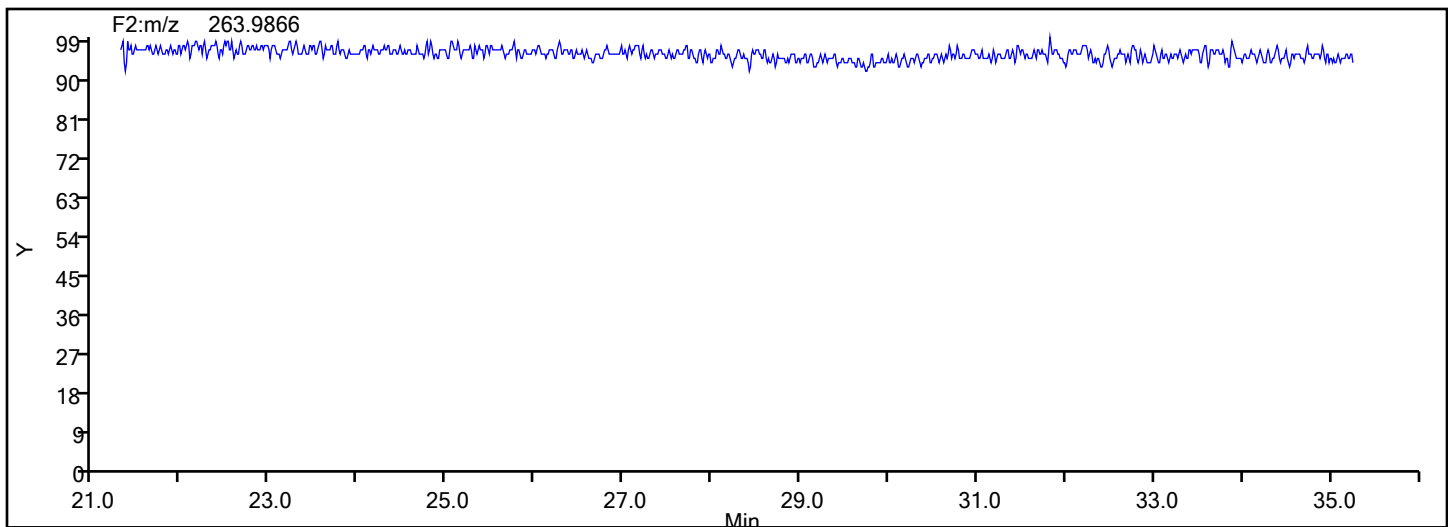
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

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Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

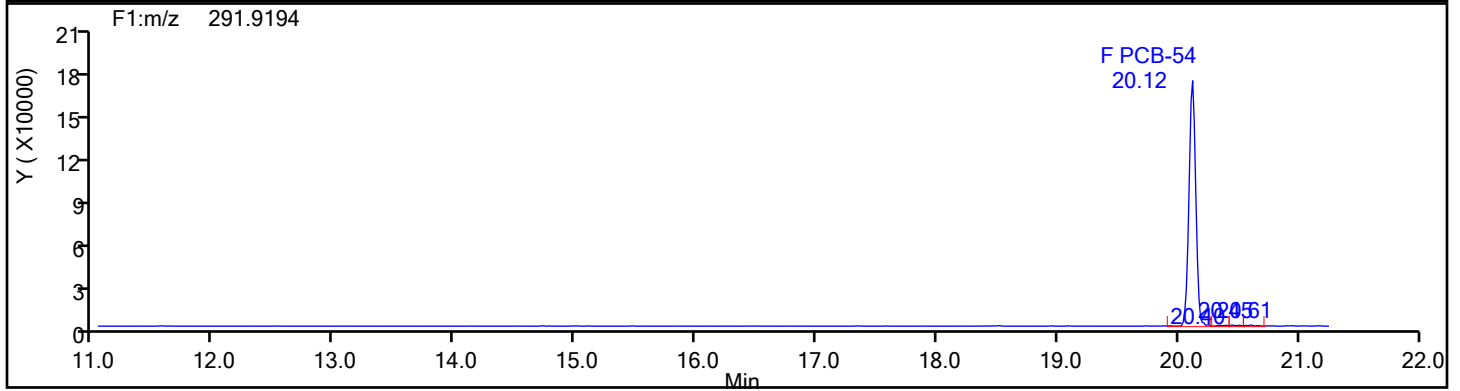
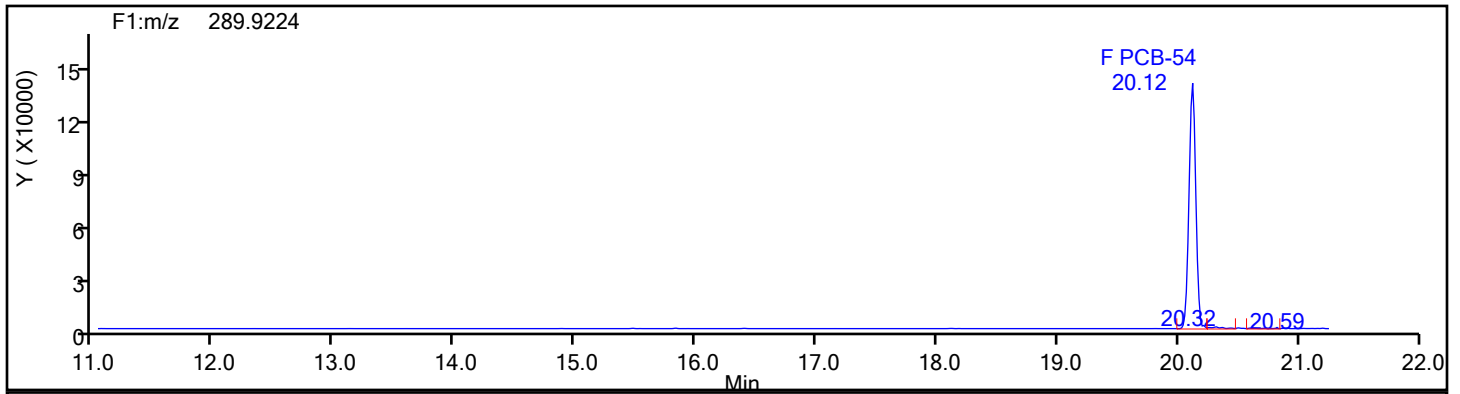
Worklist#: 87502

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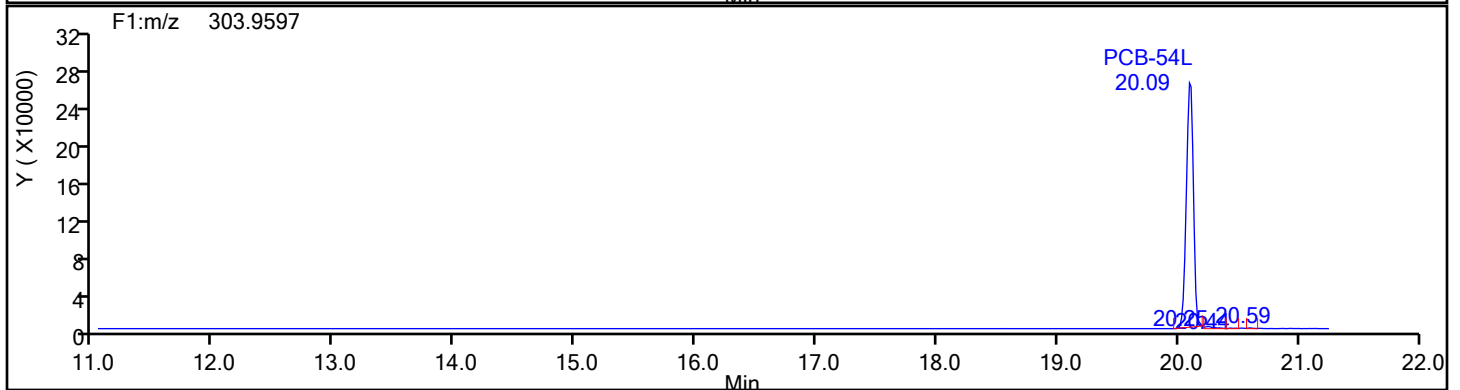
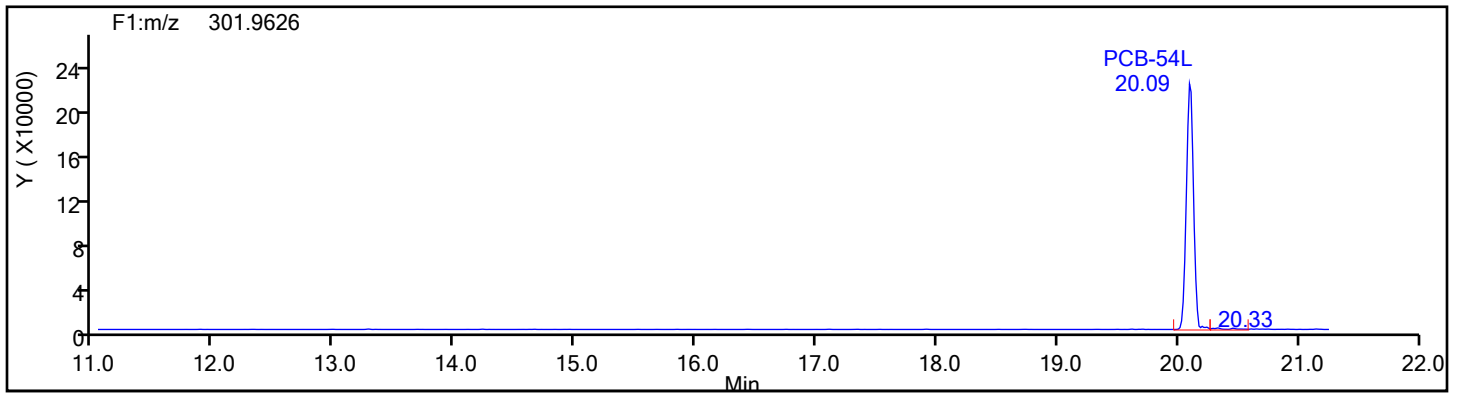
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

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Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

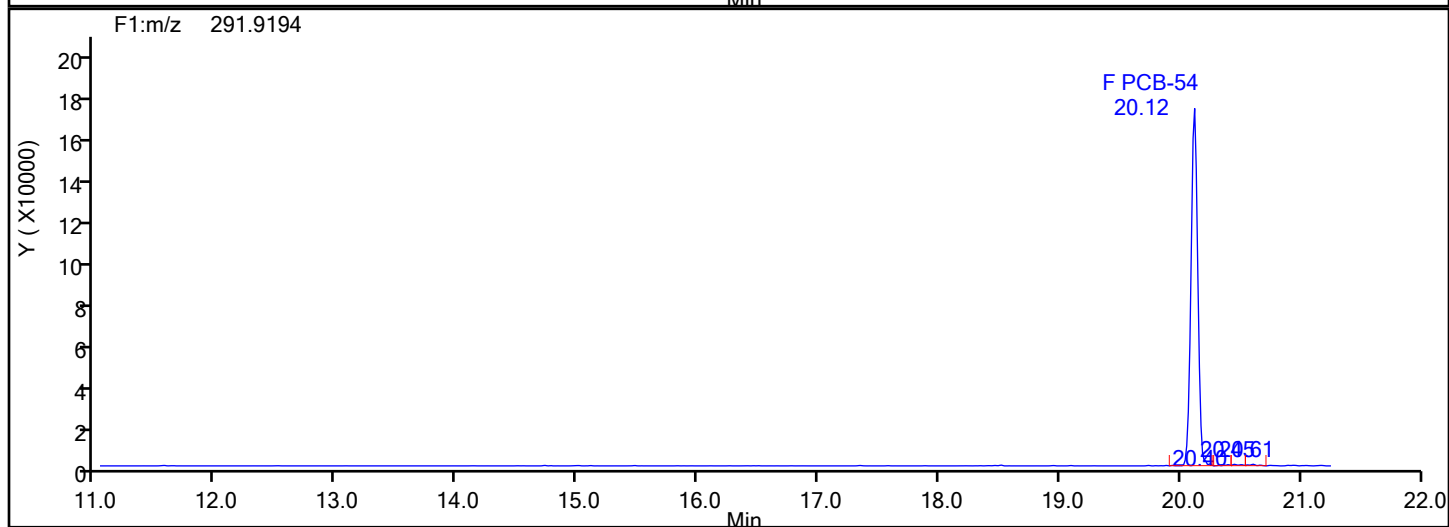
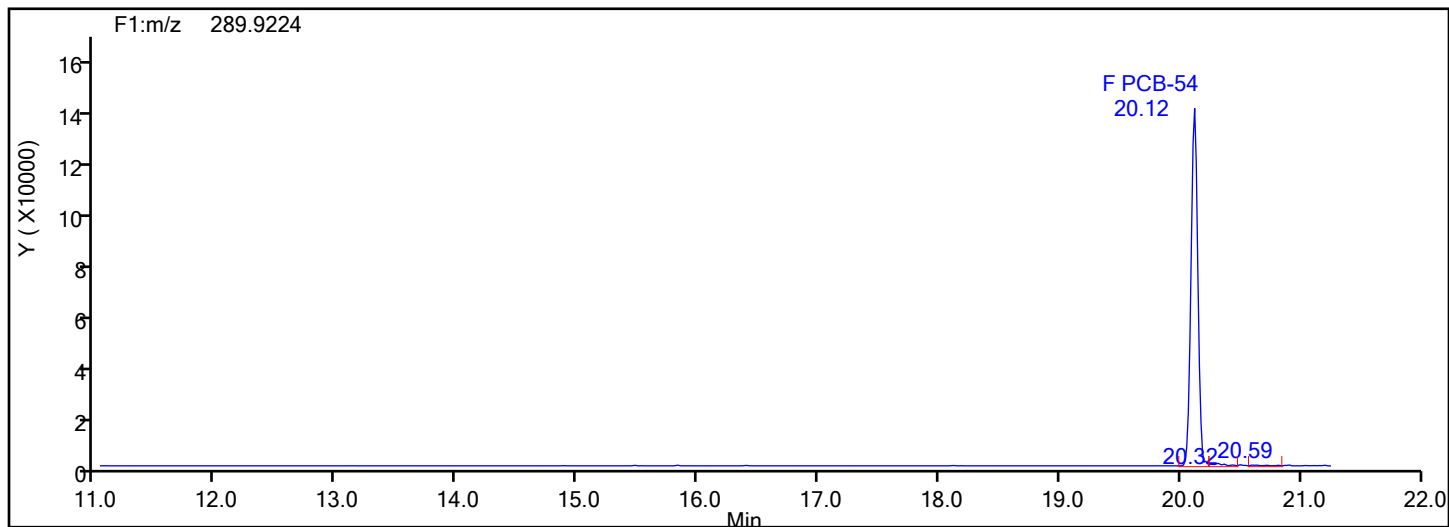
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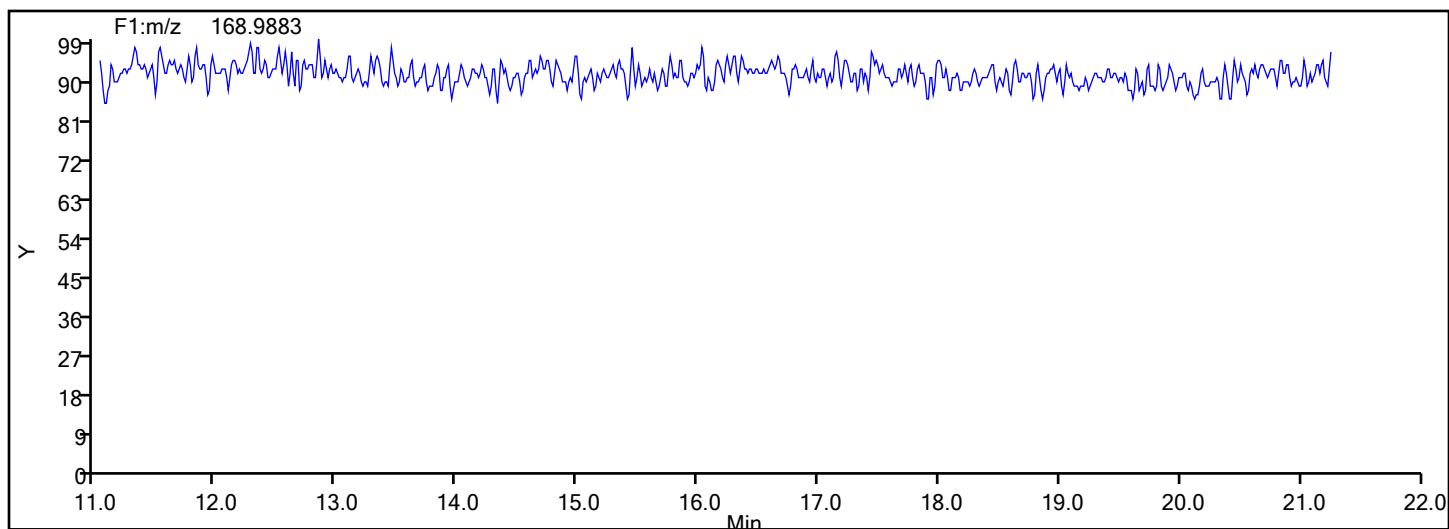
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

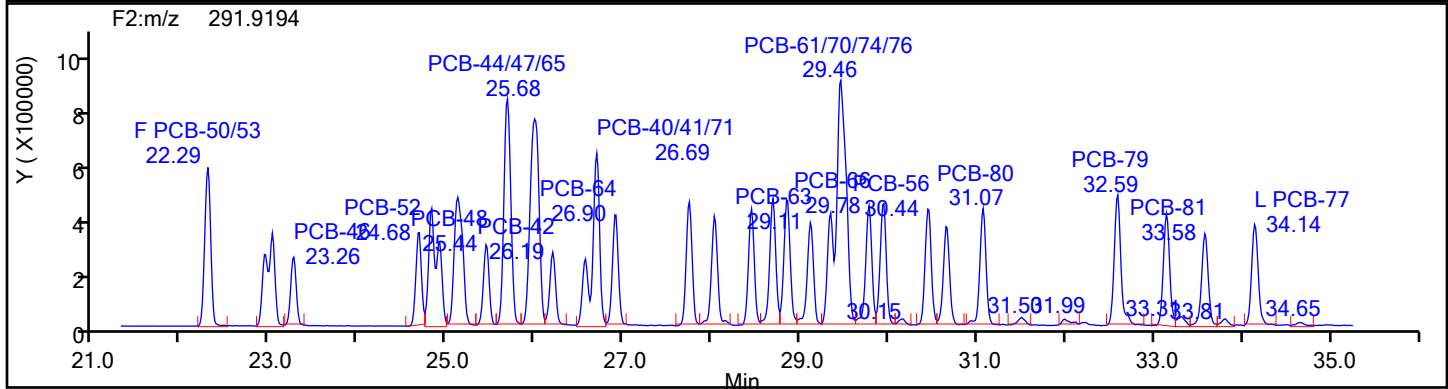
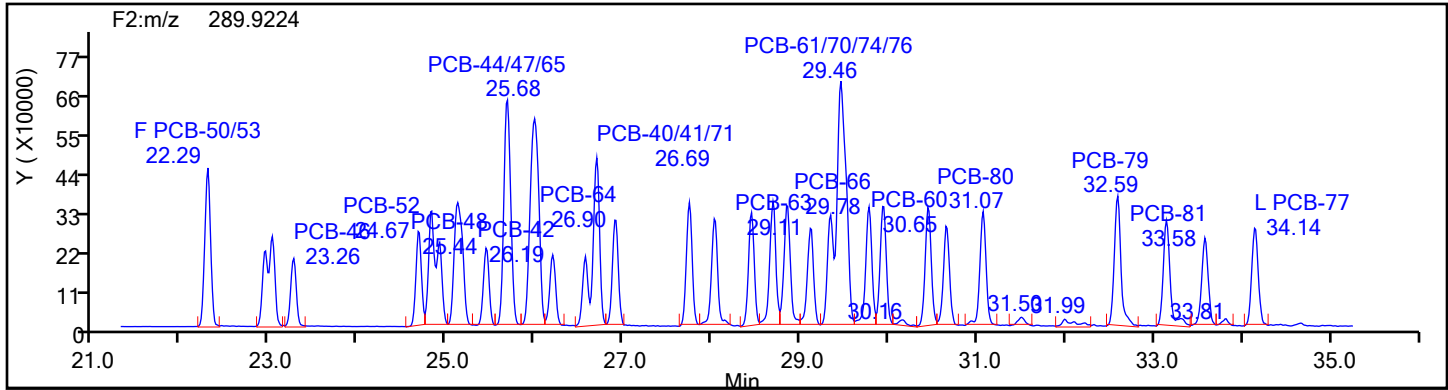
Worklist#: 87502

Sample Line#: 3

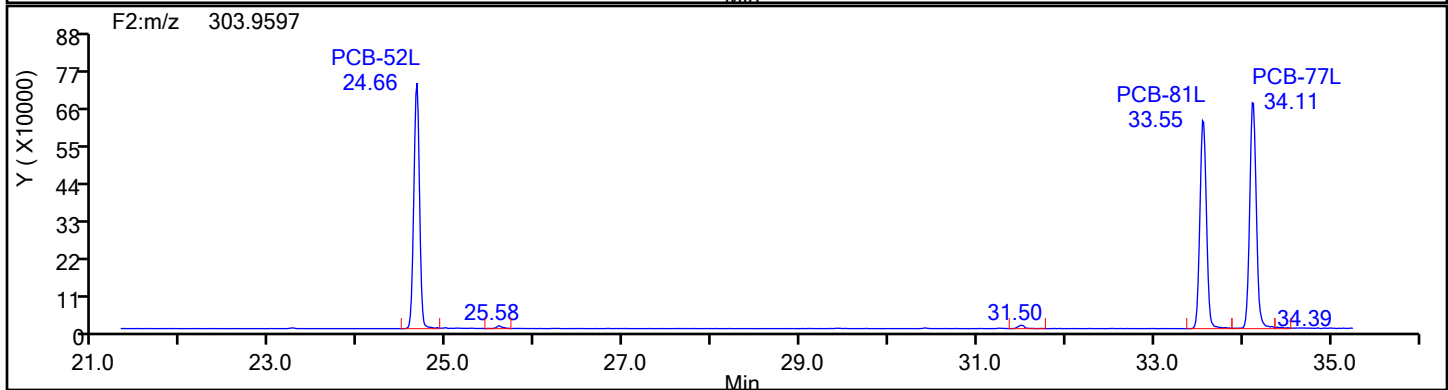
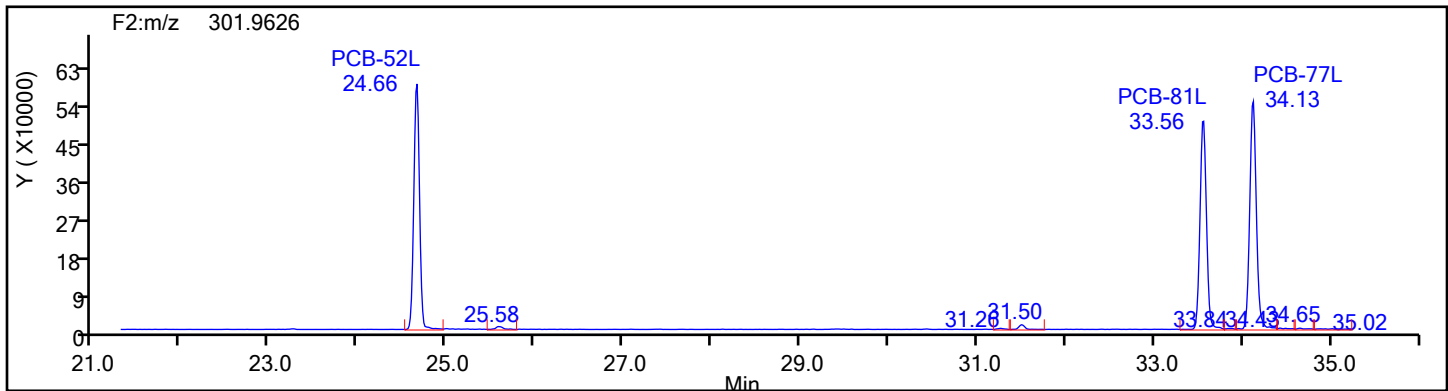
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

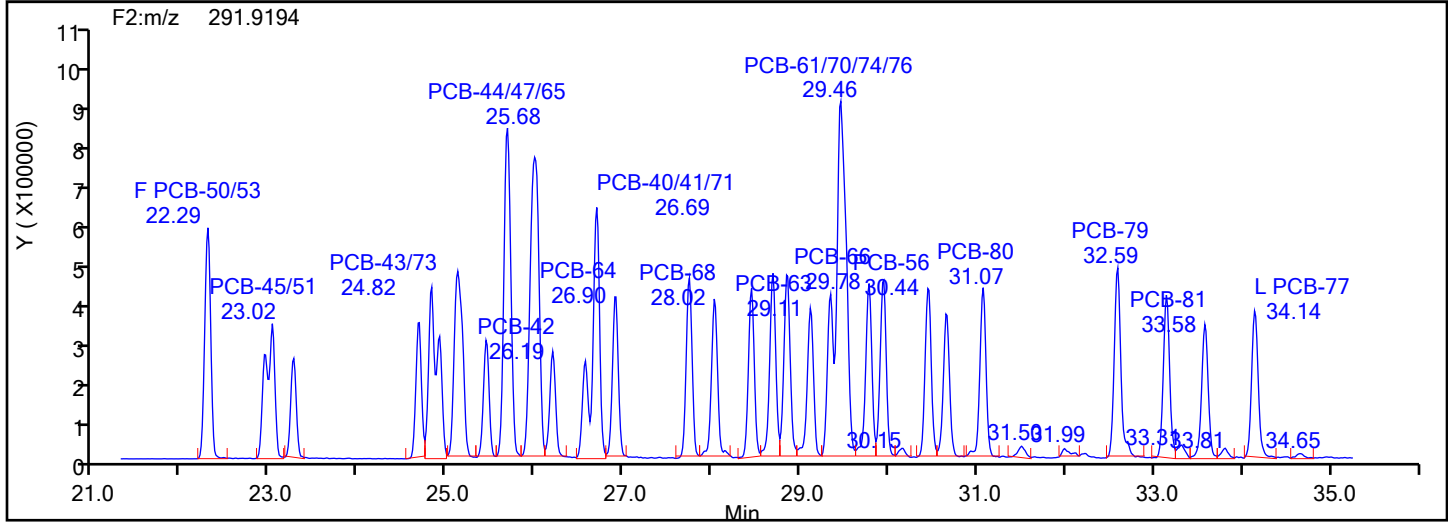
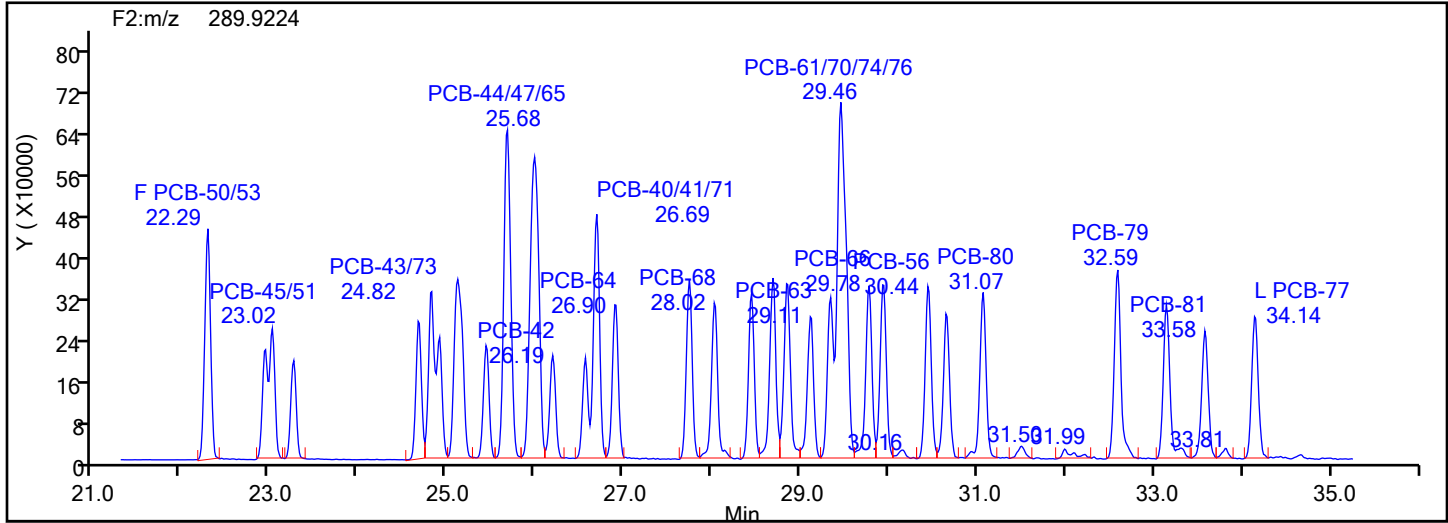
Worklist#: 87502

Sample Line#: 3

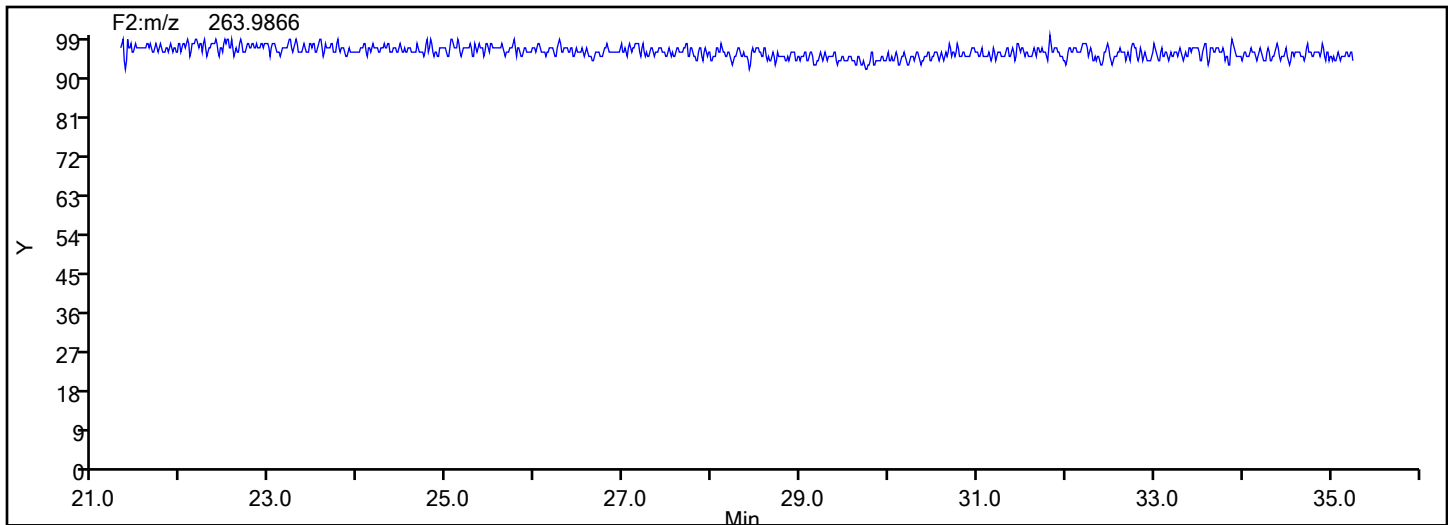
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

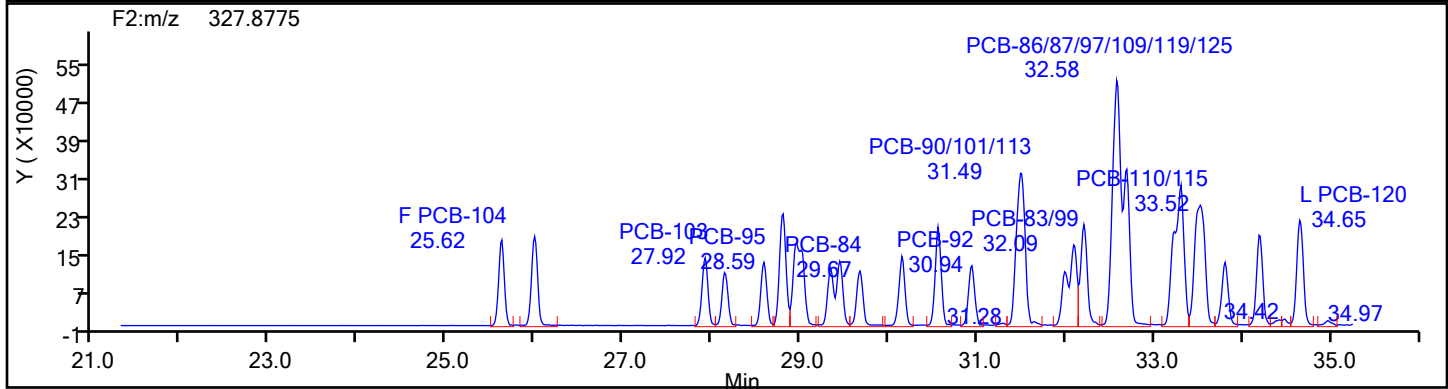
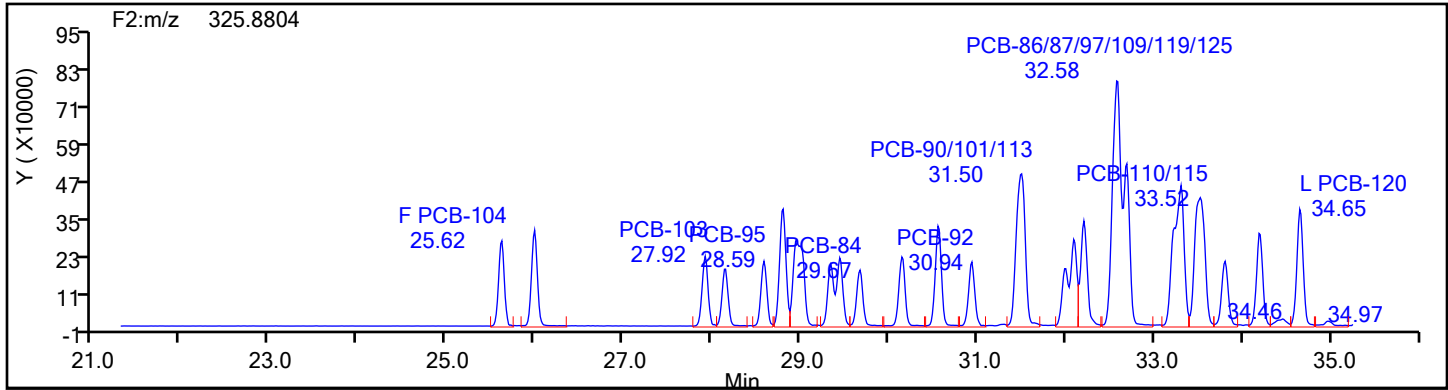
Worklist#: 87502

Sample Line#: 3

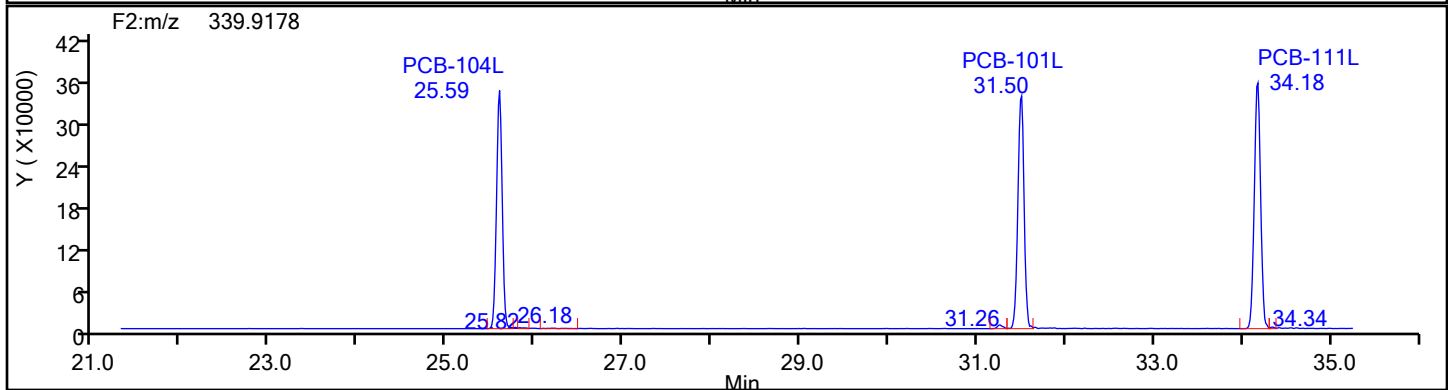
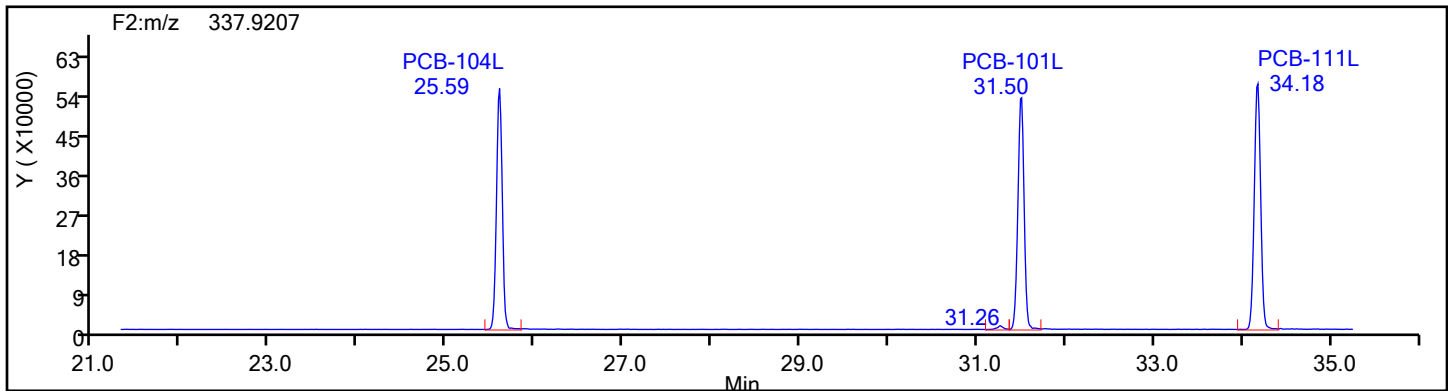
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

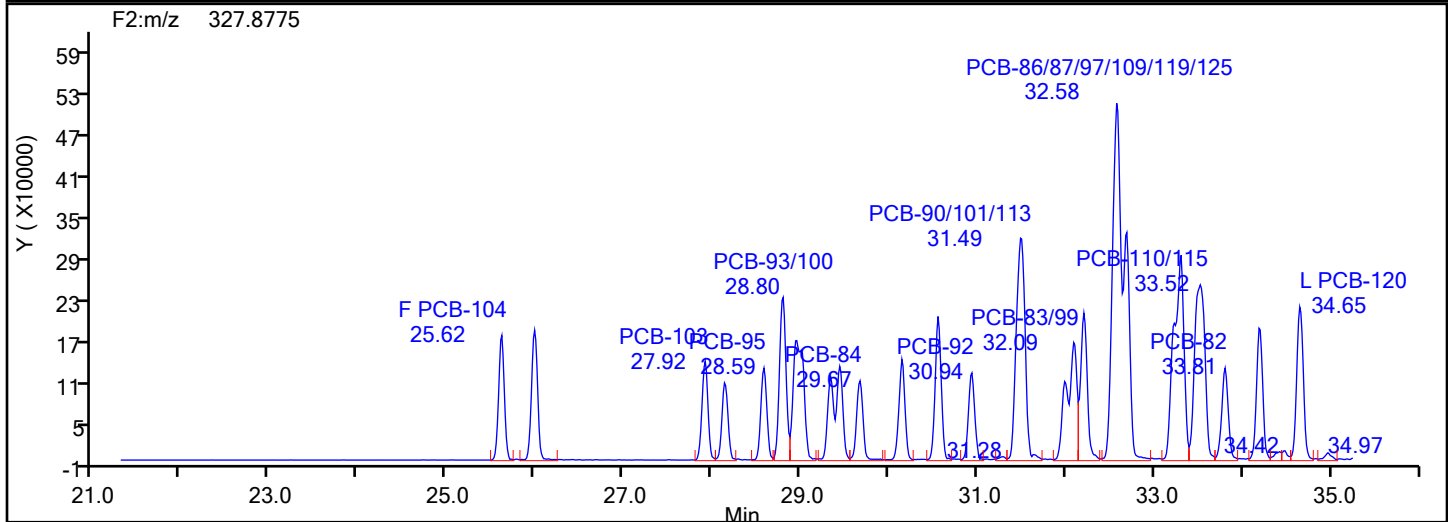
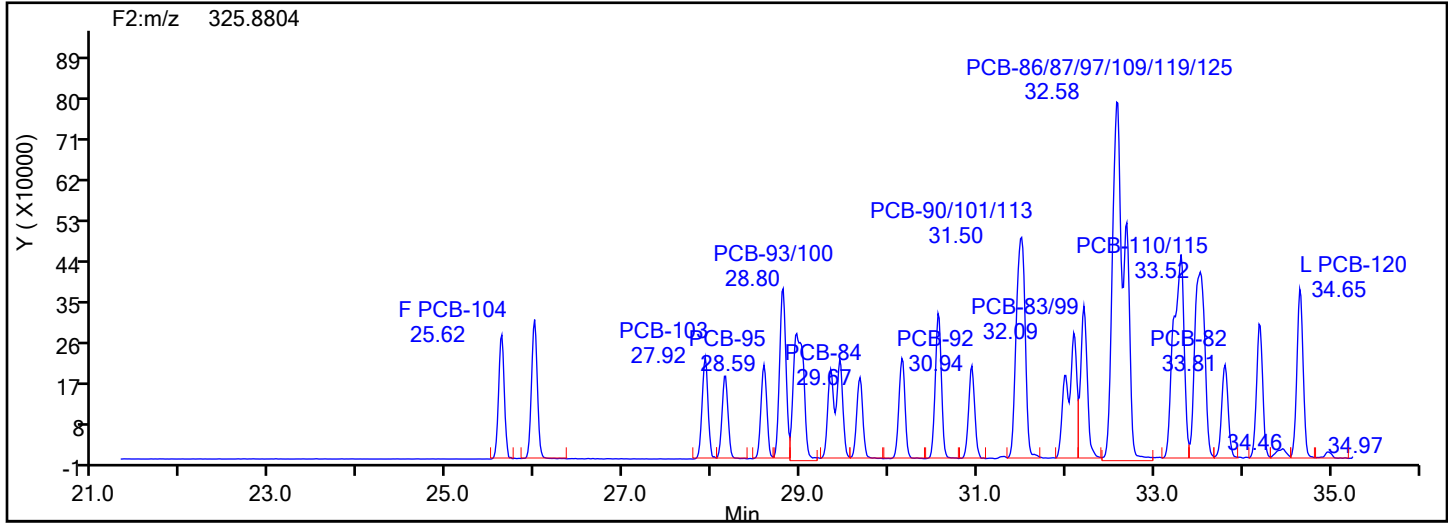
Worklist#: 87502

Sample Line#: 3

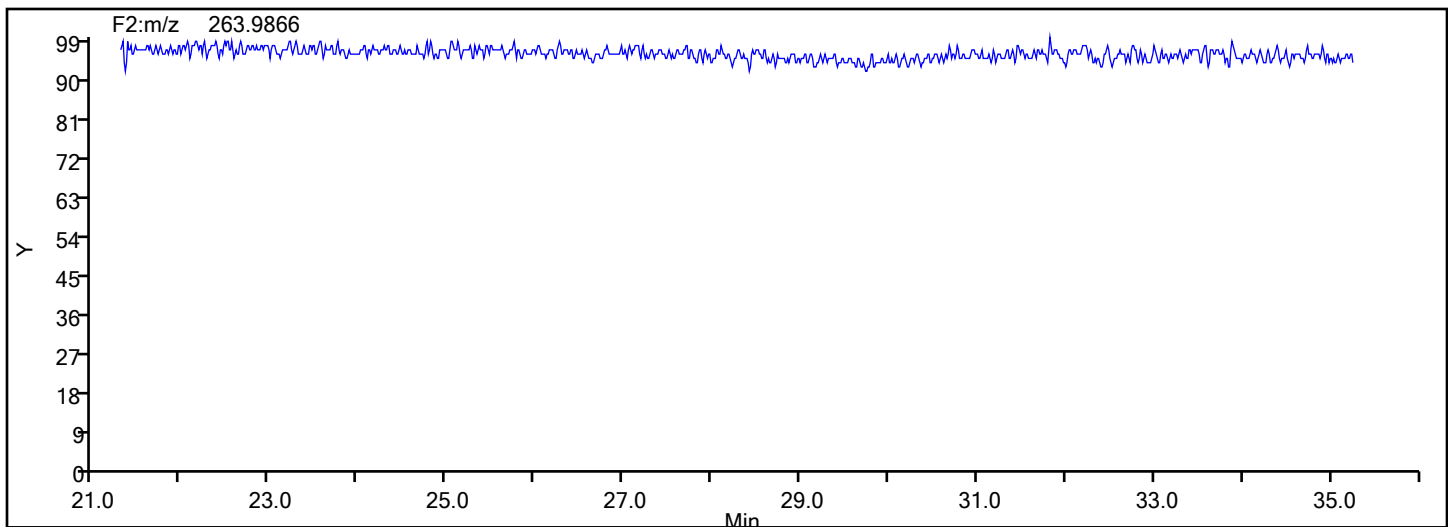
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

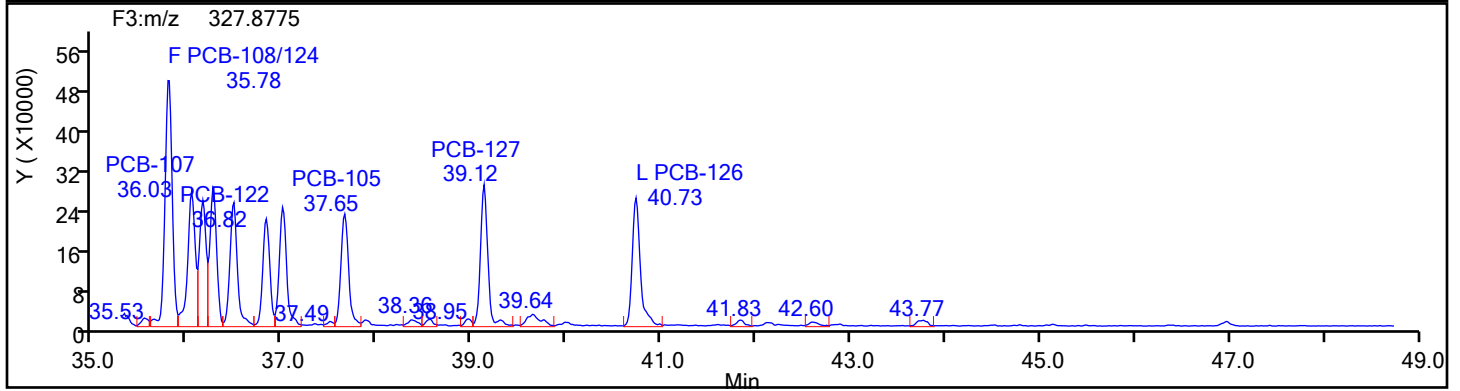
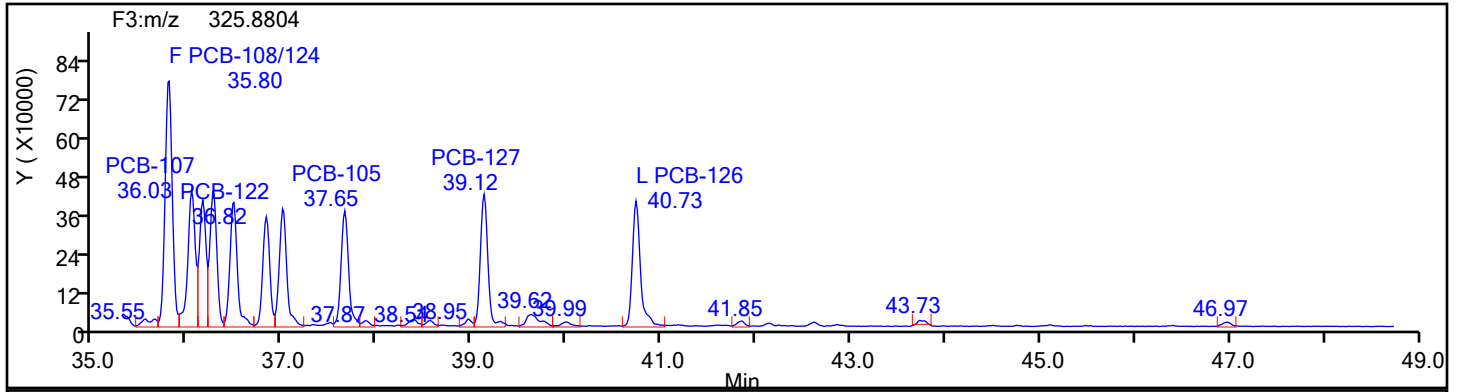
Worklist#: 87502

Sample Line#: 3

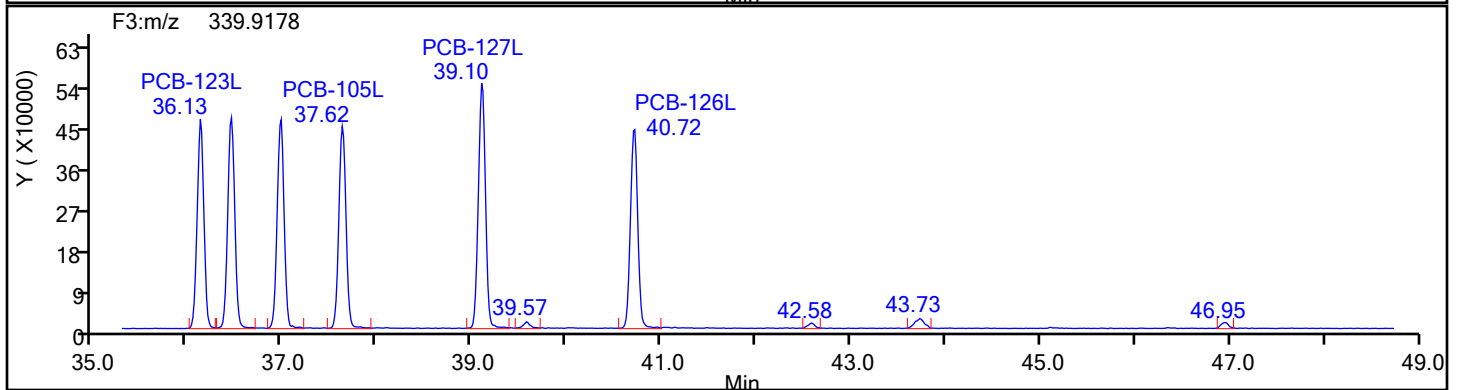
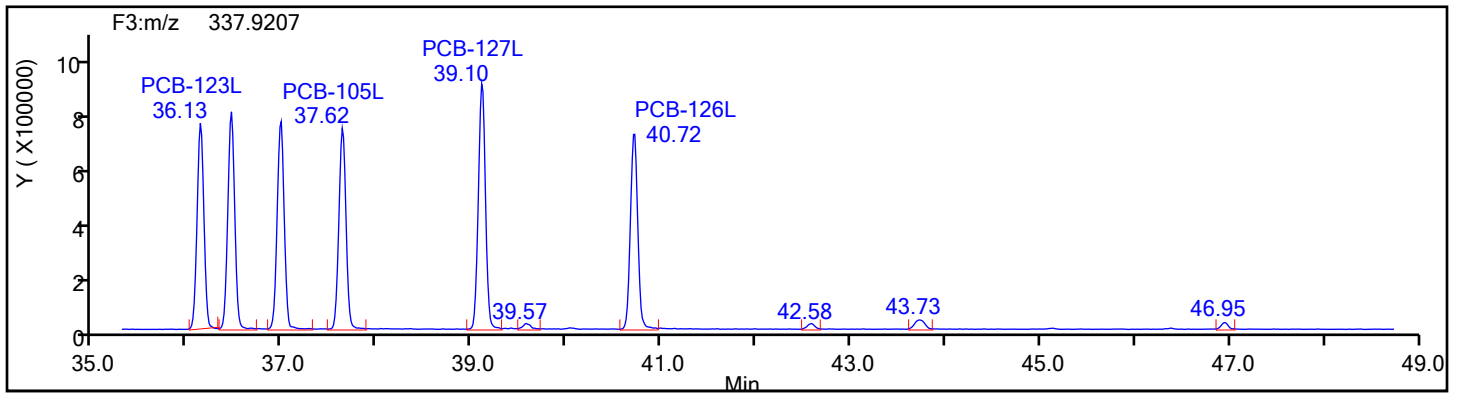
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

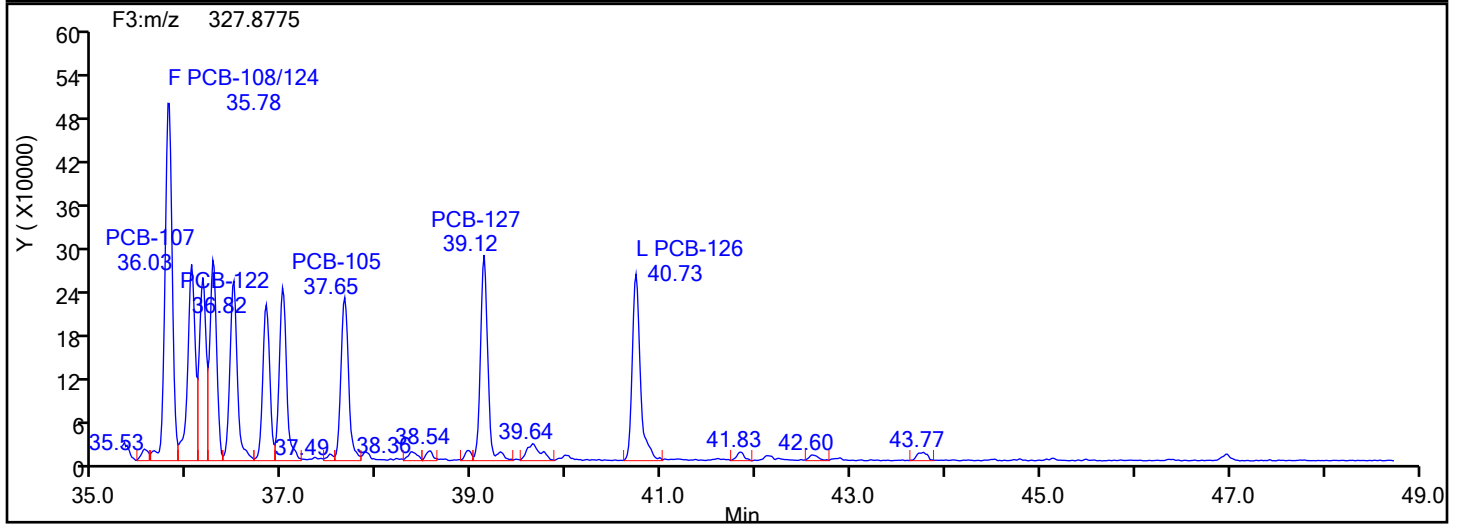
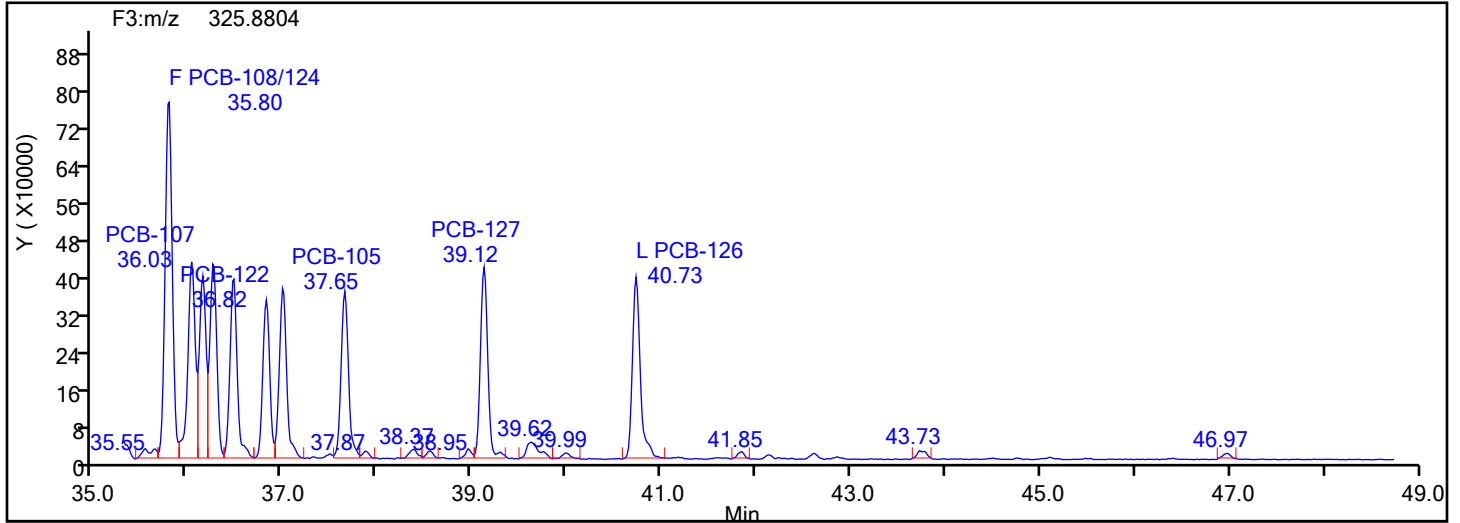
Worklist#: 87502

Sample Line#: 3

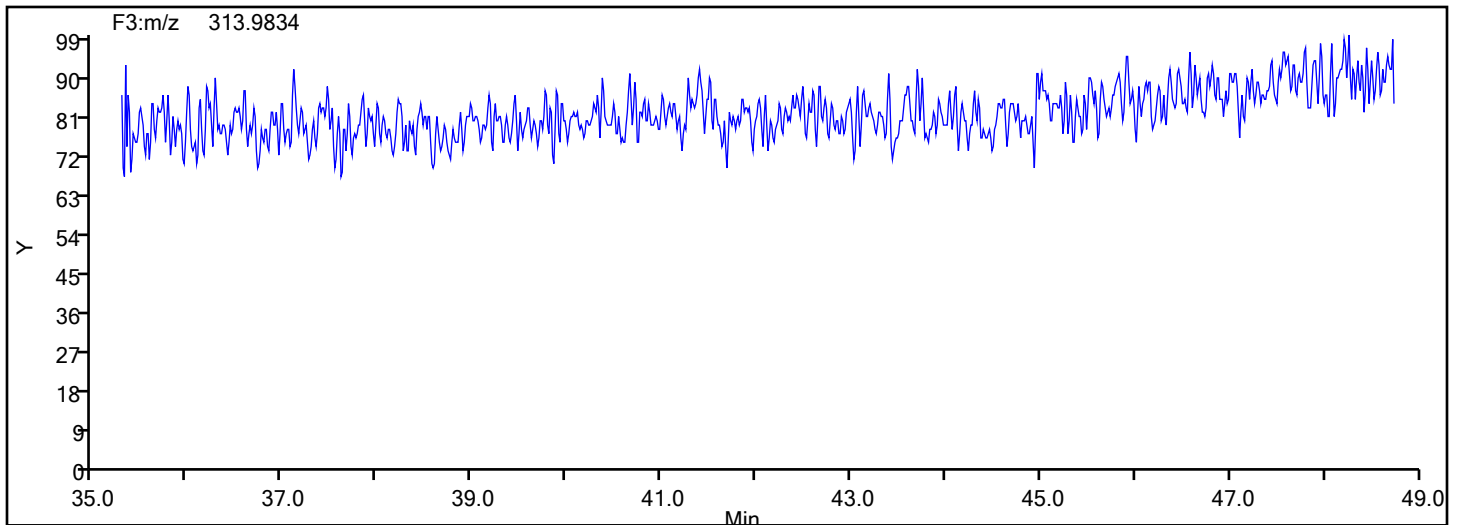
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

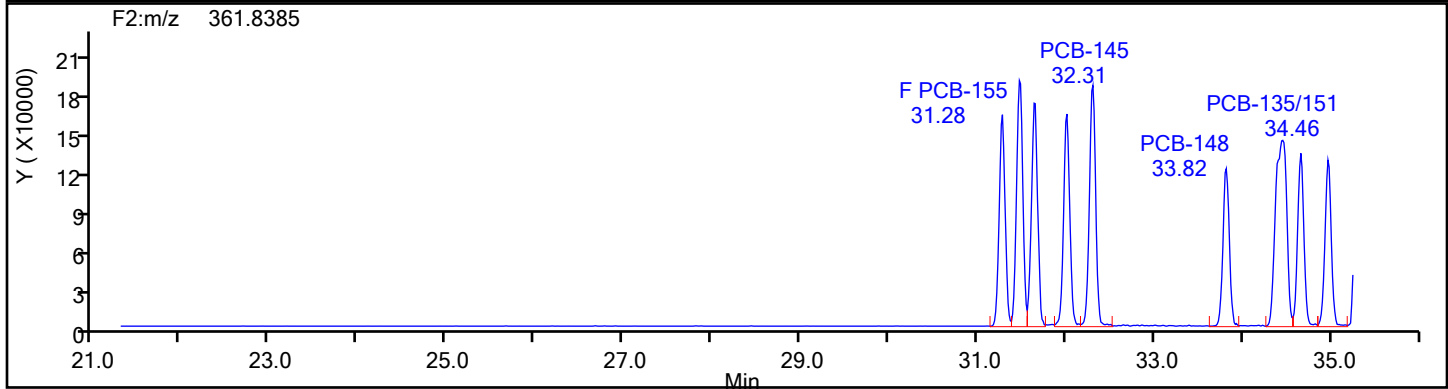
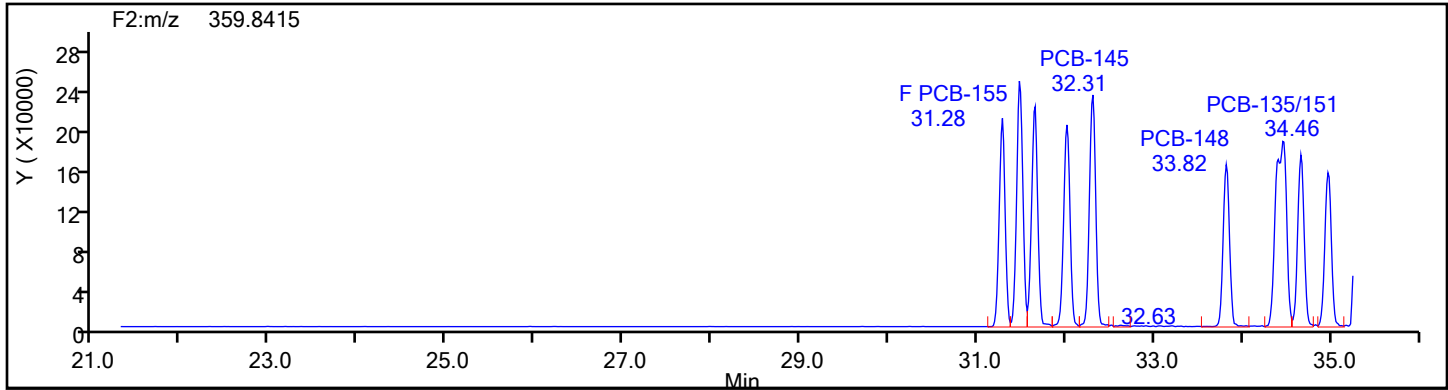
Worklist#: 87502

Sample Line#: 3

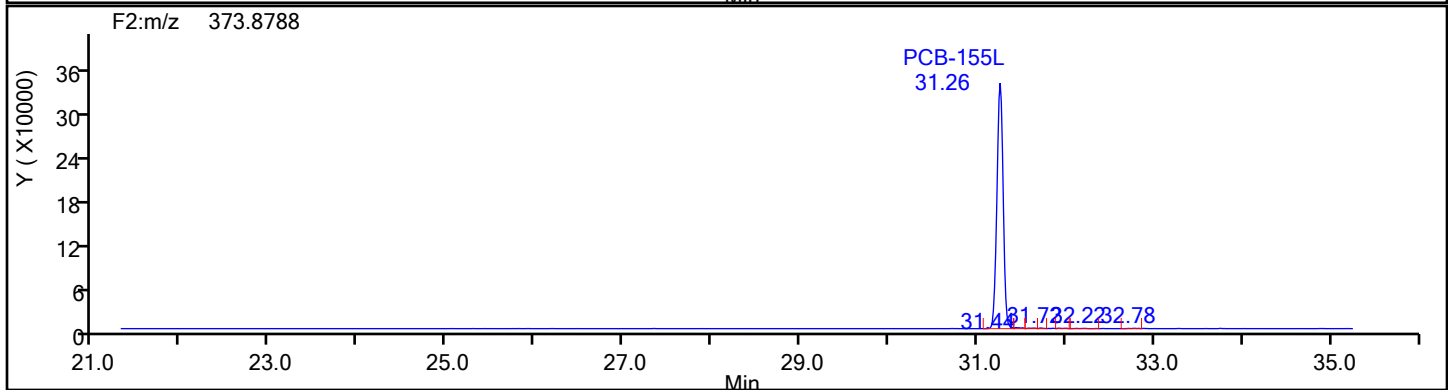
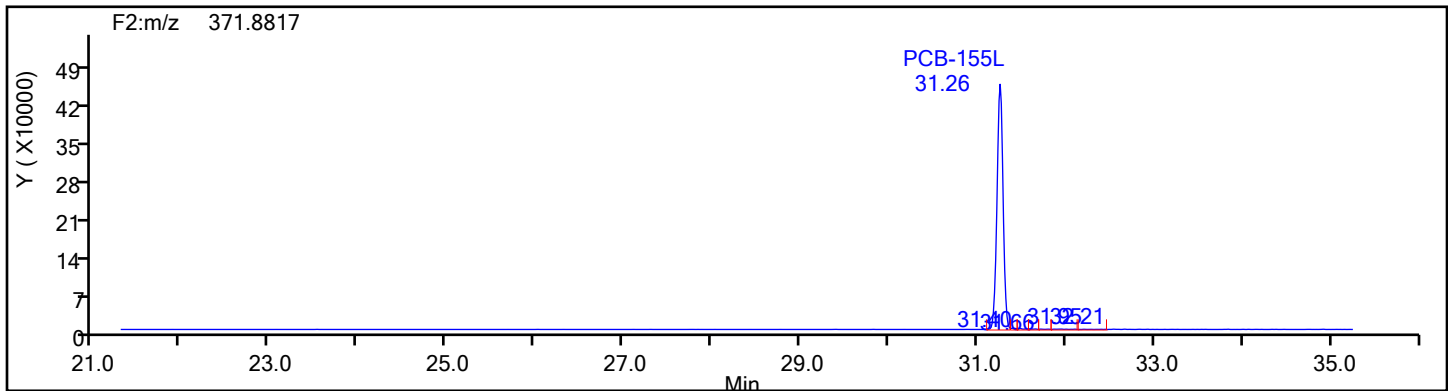
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

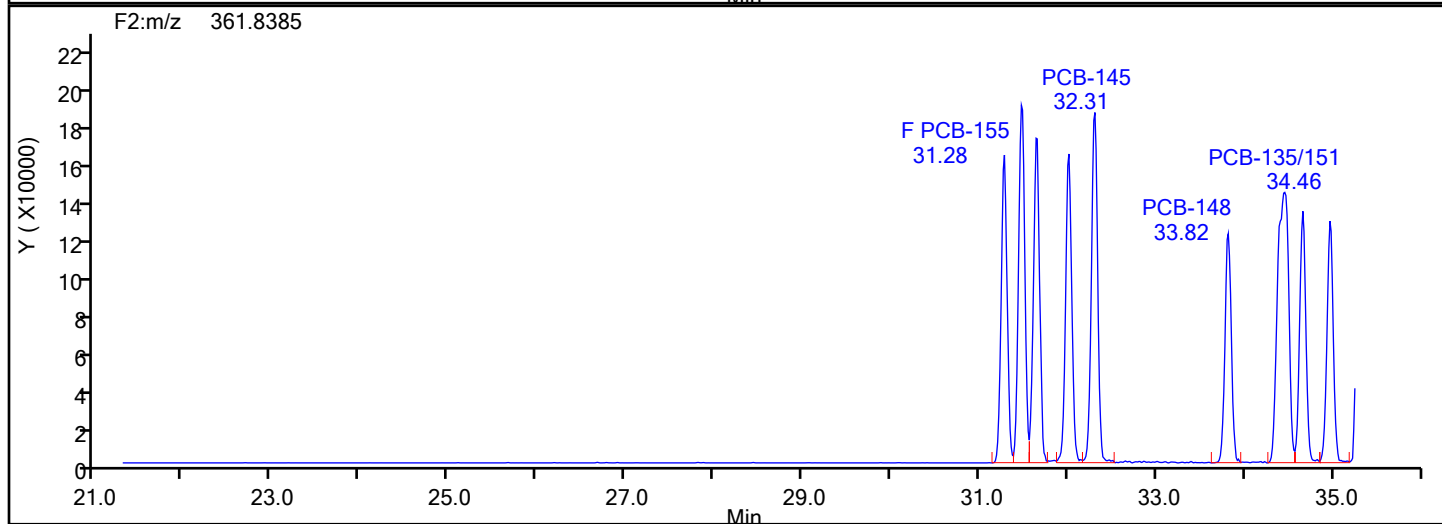
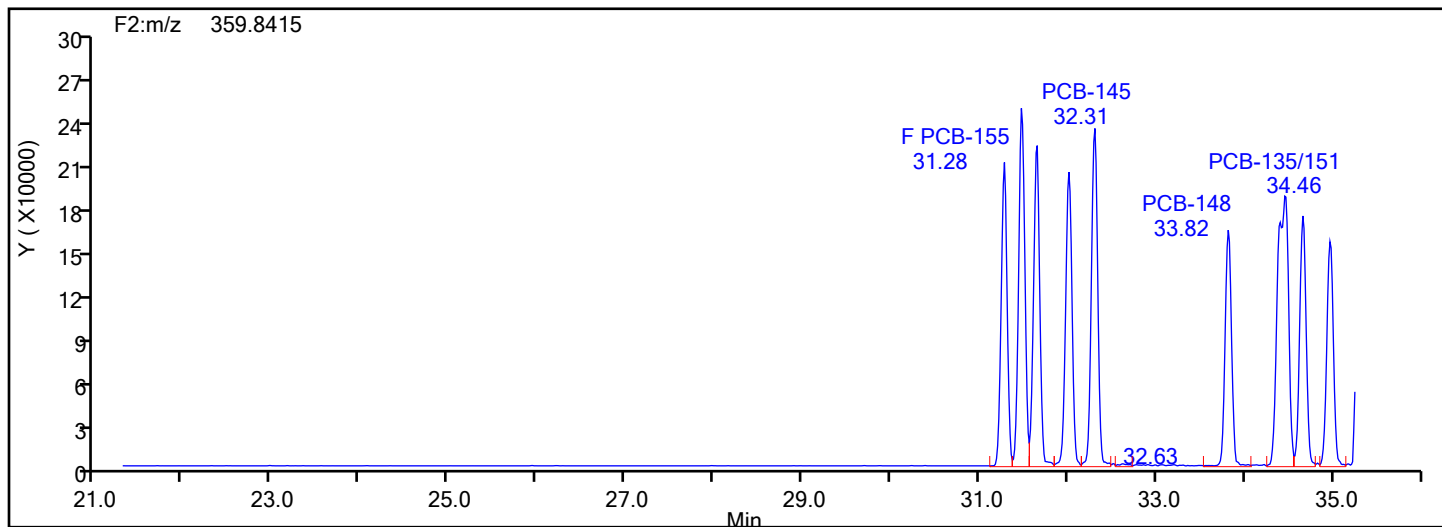
Worklist#: 87502

Sample Line#: 3

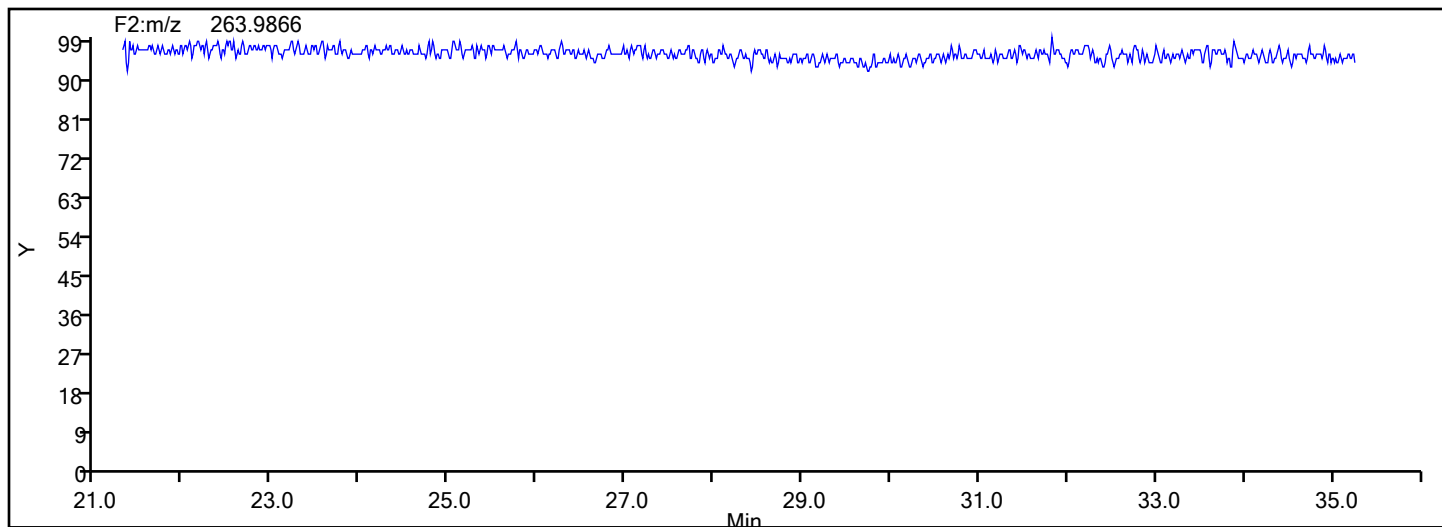
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

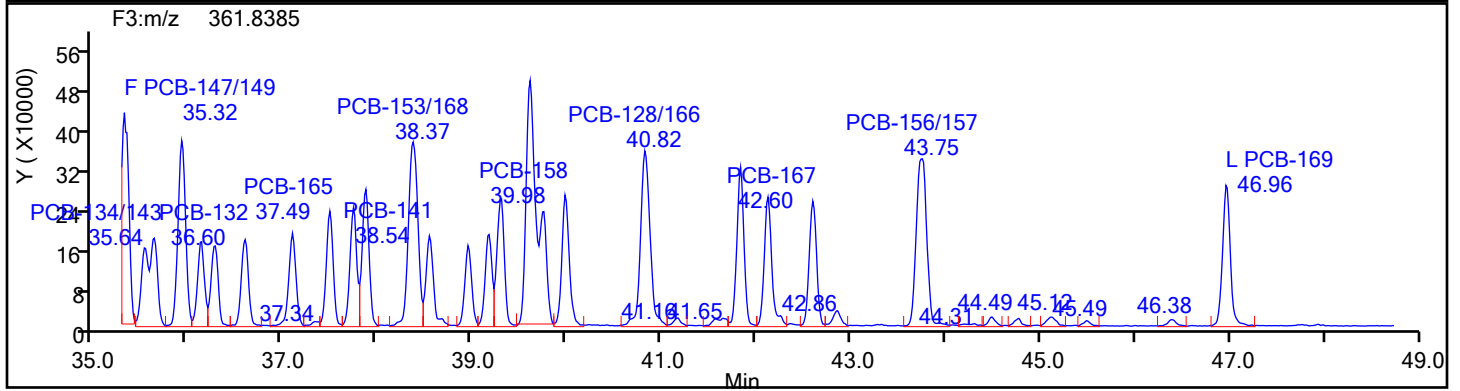
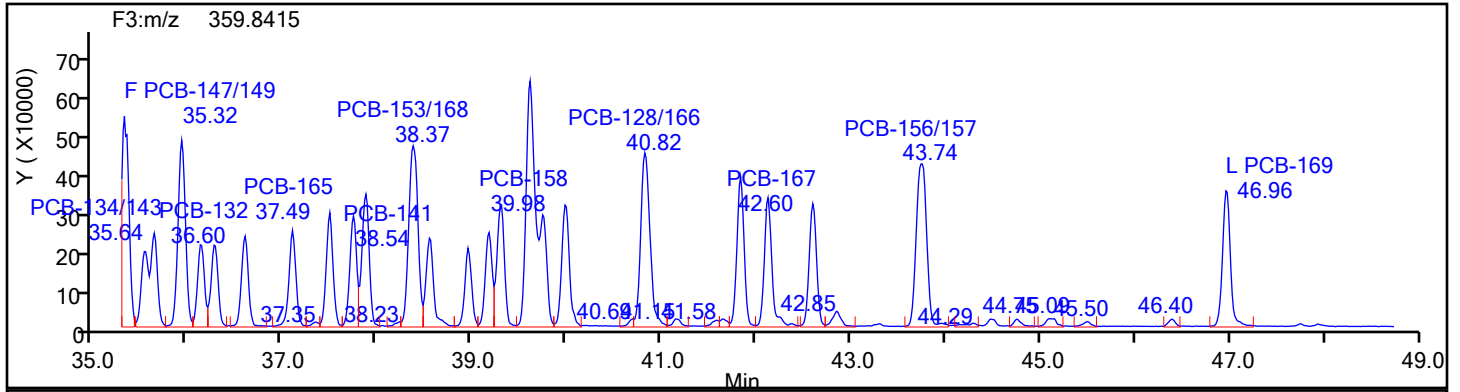
Worklist#: 87502

Sample Line#: 3

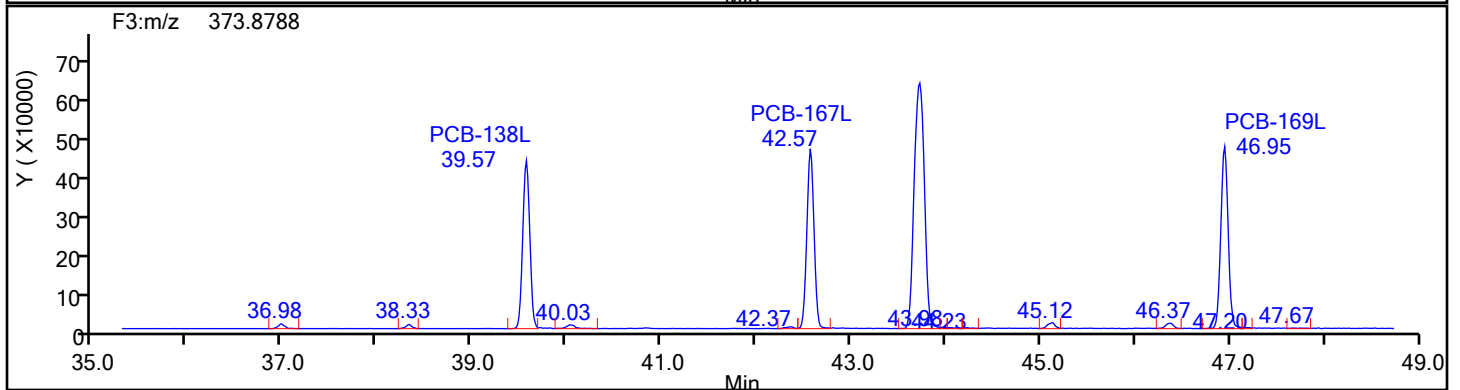
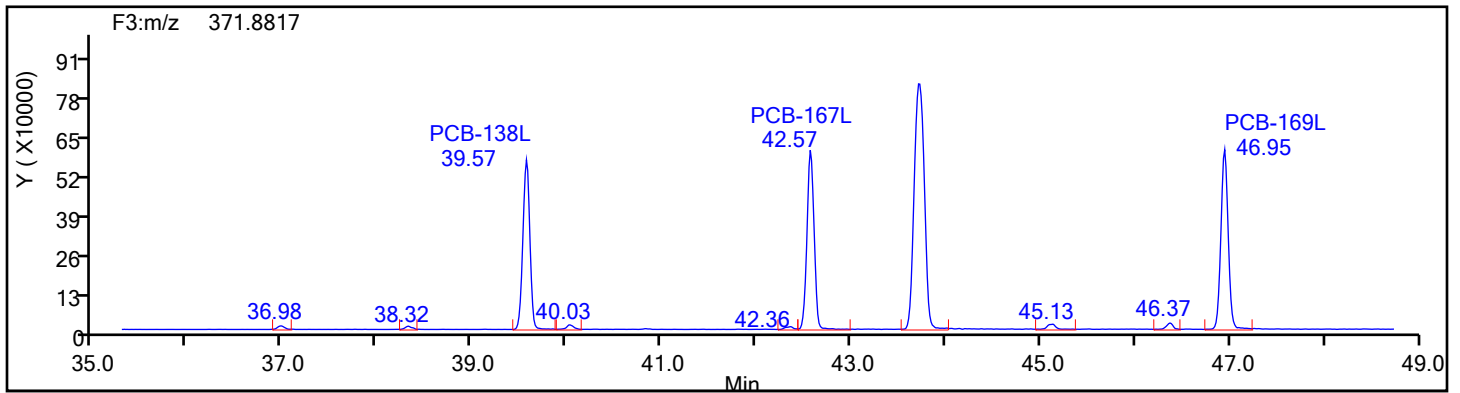
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

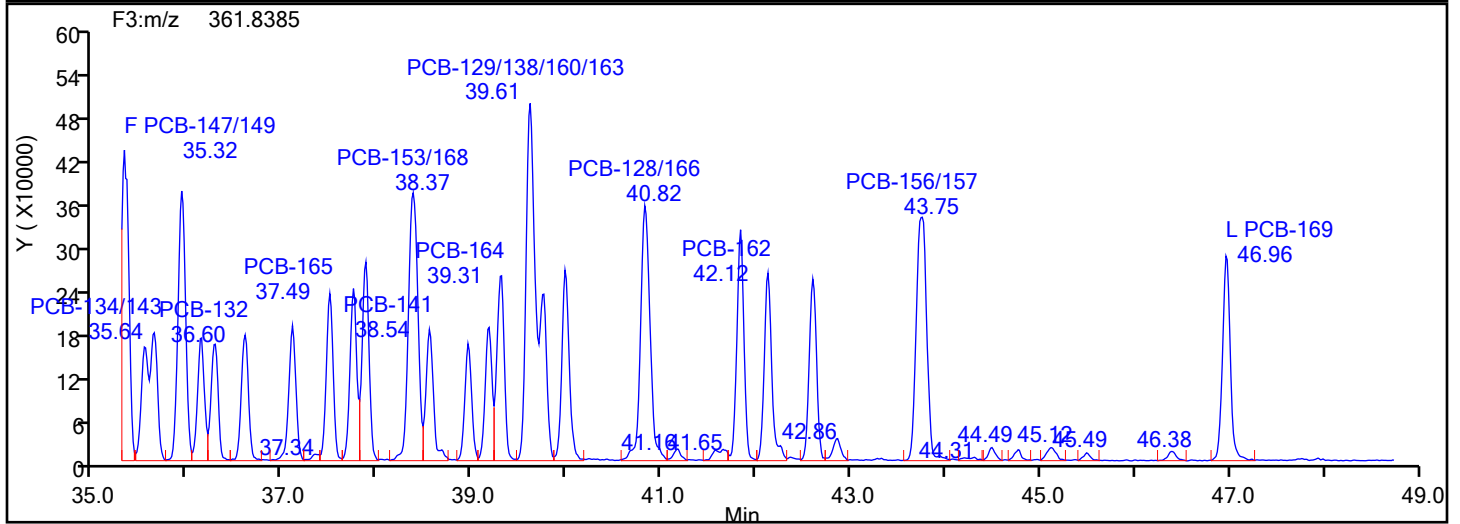
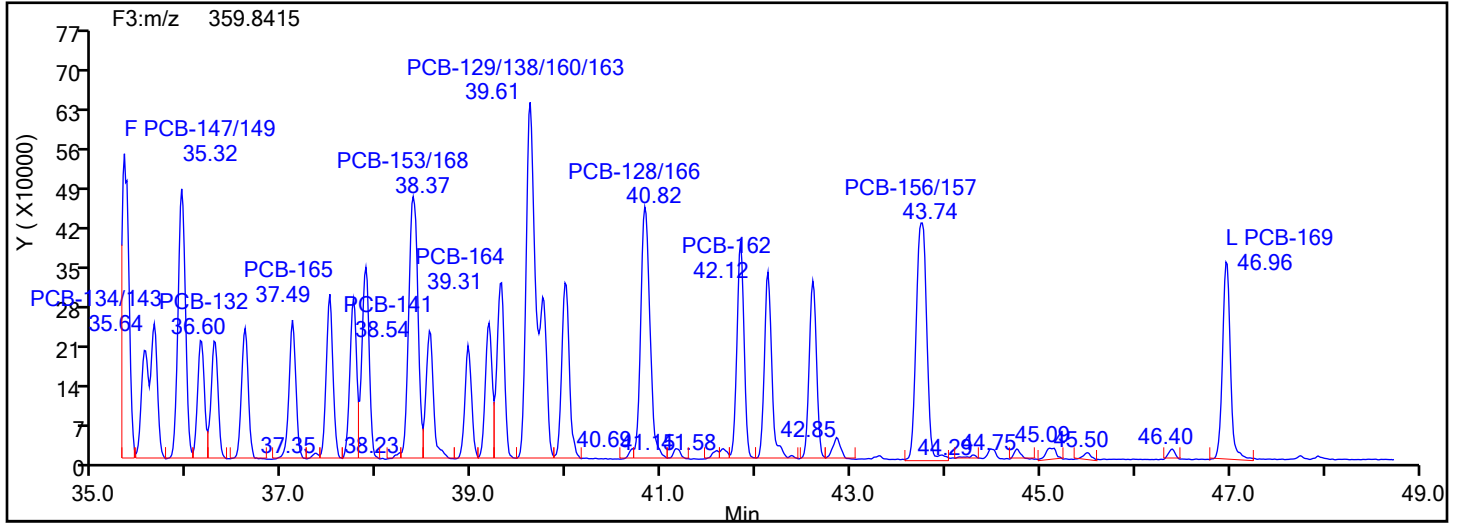
Worklist#: 87502

Sample Line#: 3

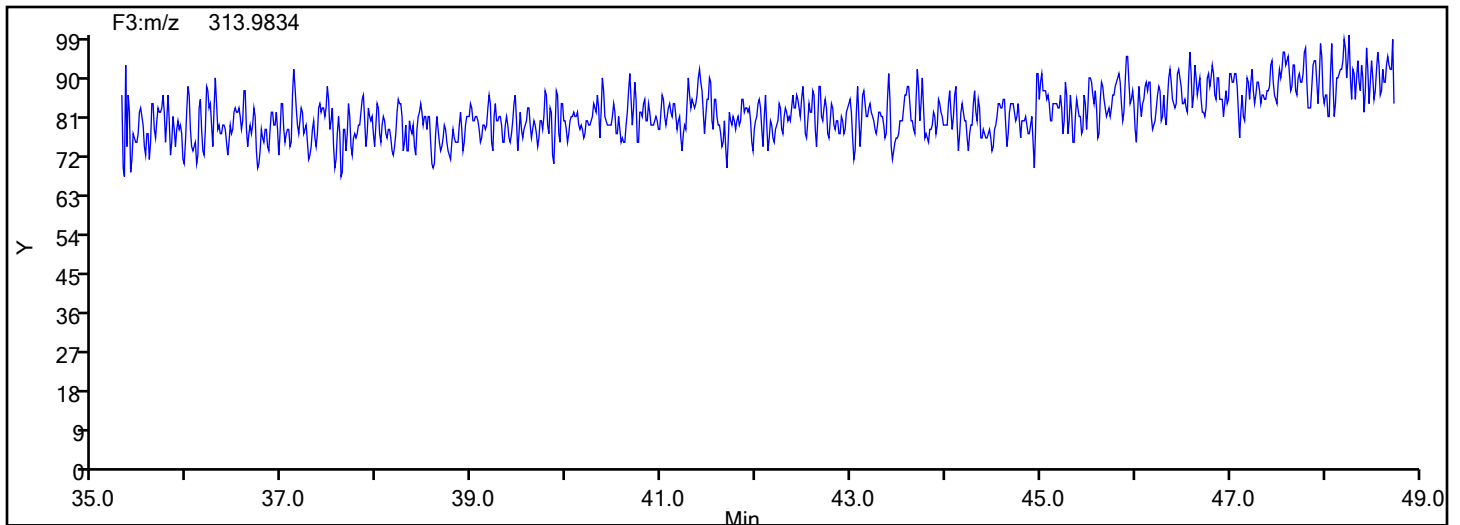
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Instrument ID: D2D

Lims ID: LCSD 140-87206/16-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

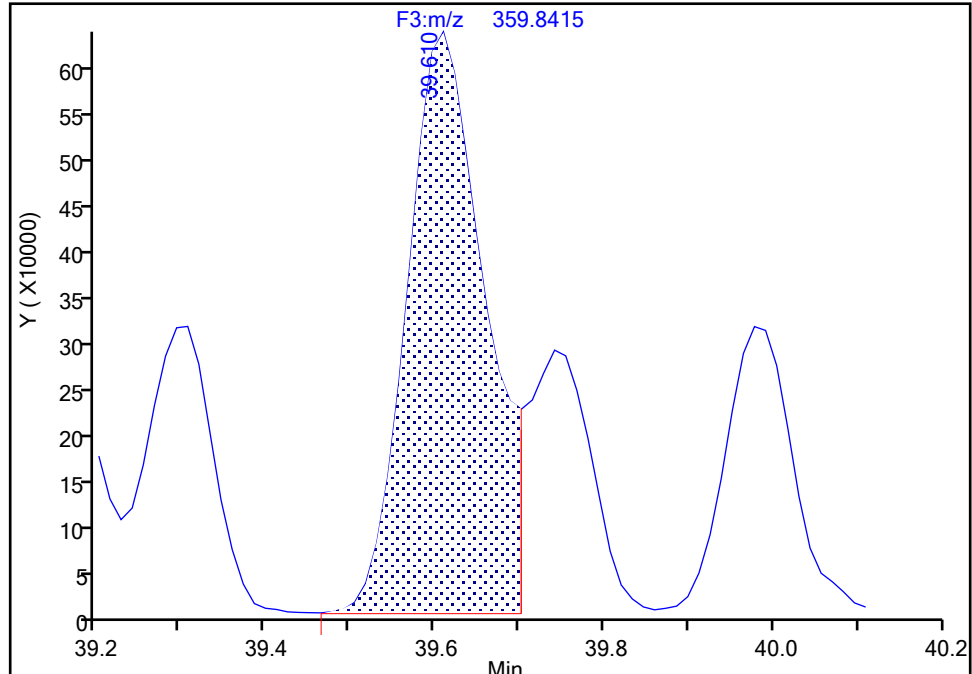
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

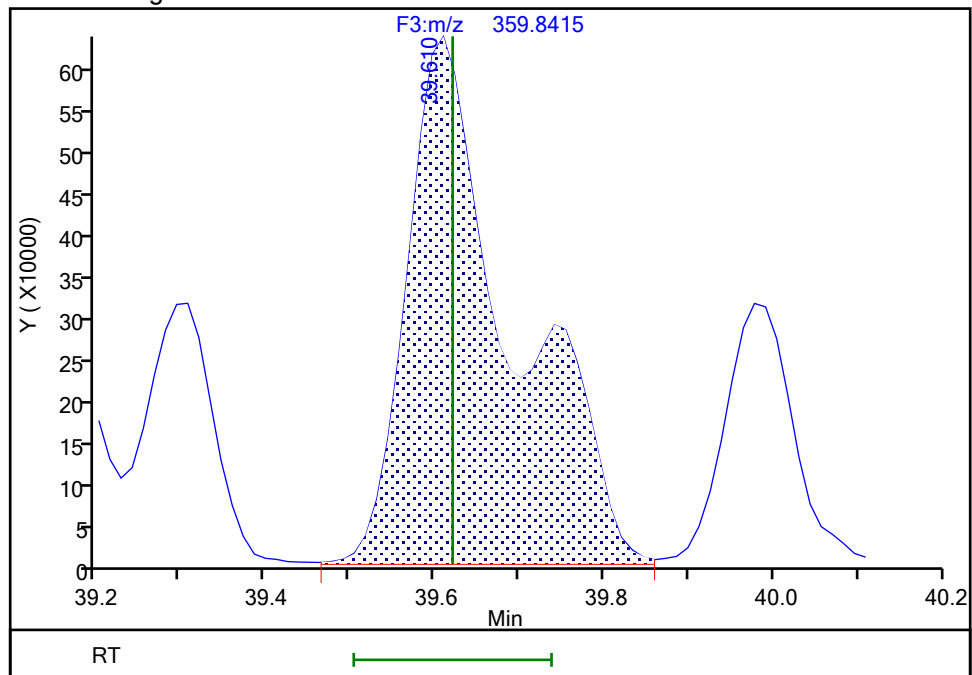
RT: 39.61
Area: 4044966
Amount: 135.5034
Amount Units: pg/ul

Processing Integration Results



RT: 39.61
Area: 5503905
Amount: 184.5885
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 14:56:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Instrument ID: D2D

Lims ID: LCSD 140-87206/16-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

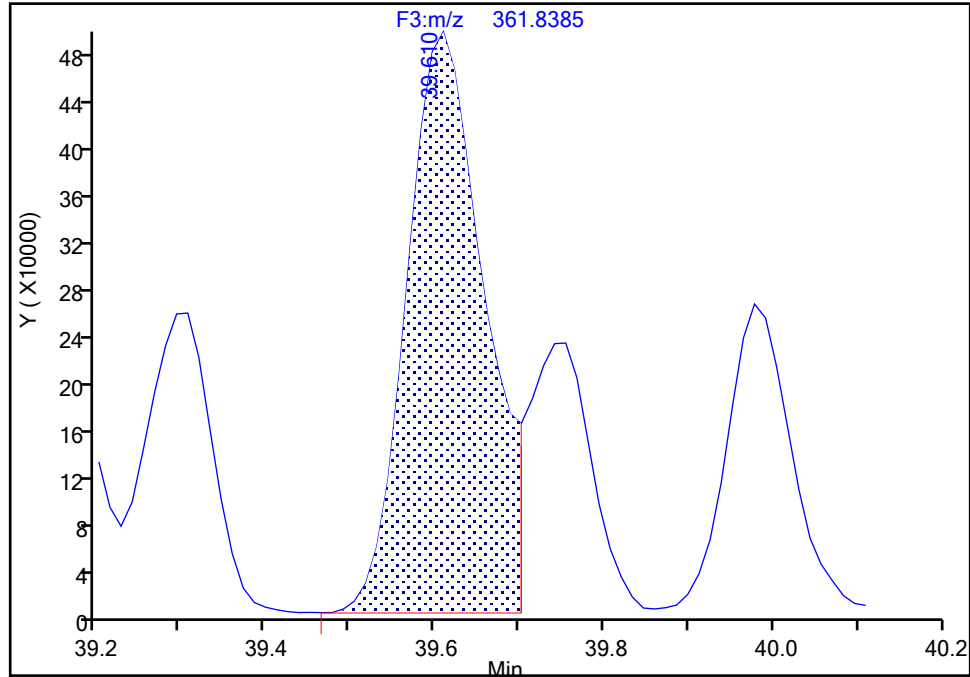
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

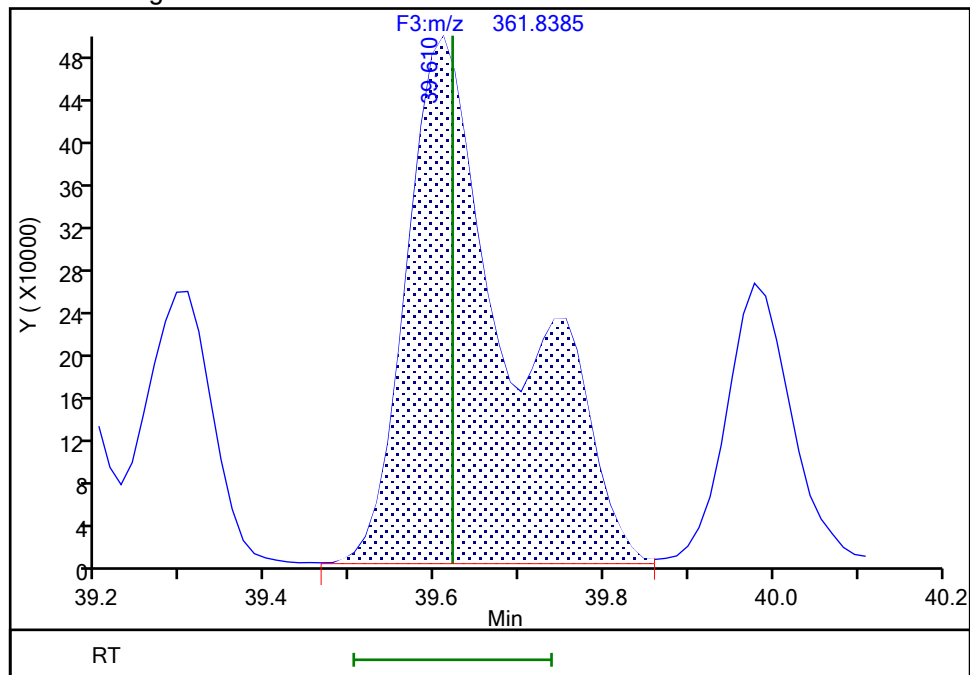
RT: 39.61
Area: 3144992
Amount: 135.5034
Amount Units: pg/ul

Processing Integration Results



RT: 39.61
Area: 4290561
Amount: 184.5885
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 11-Jun-2024 14:56:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Chrom Revision: 2.3 20-May-2024 22:00:34

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Vol: 1.0 ul

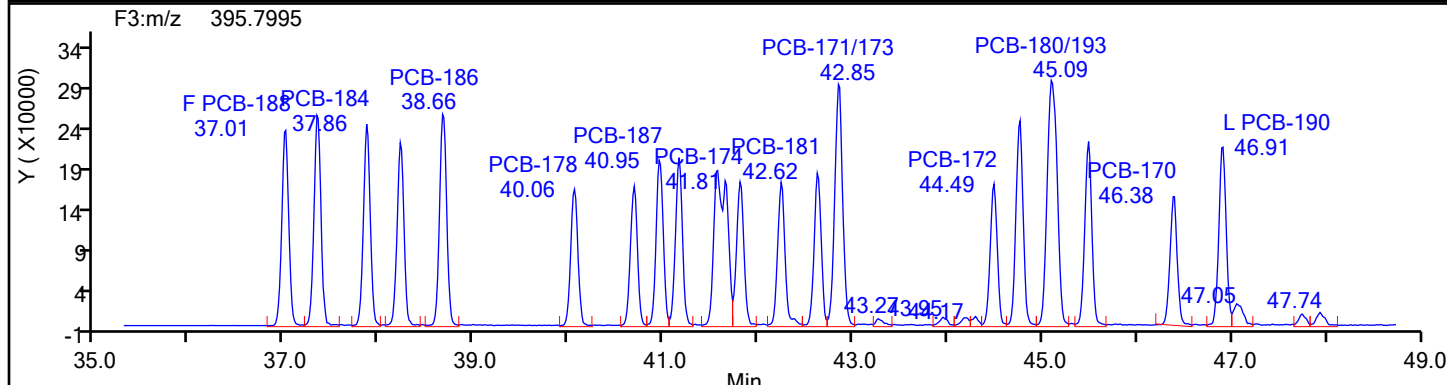
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

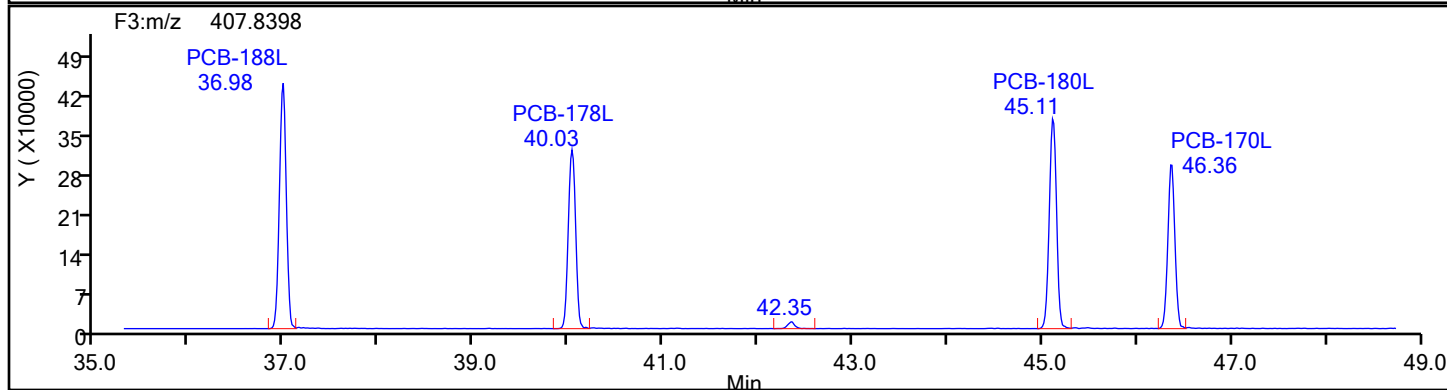
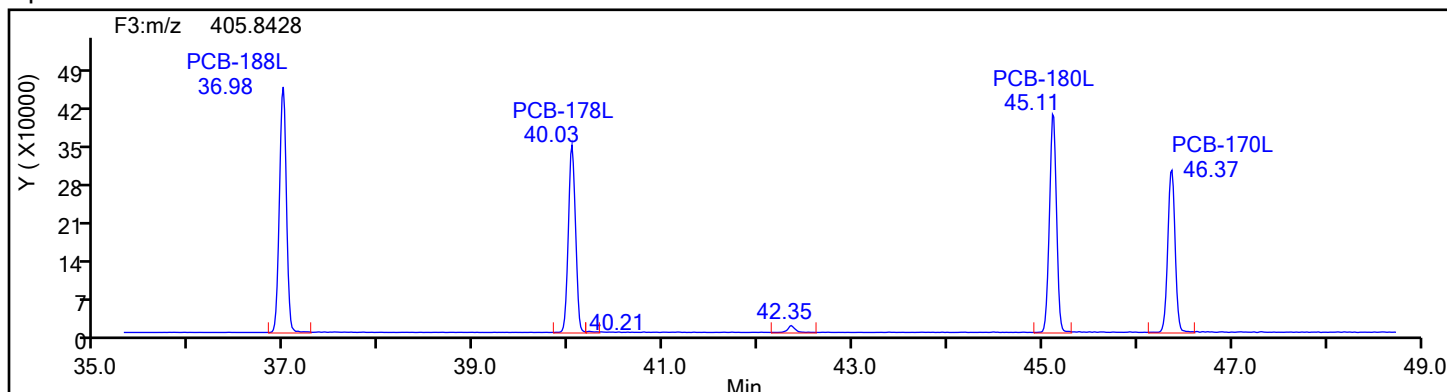
Sample Line#: 3

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

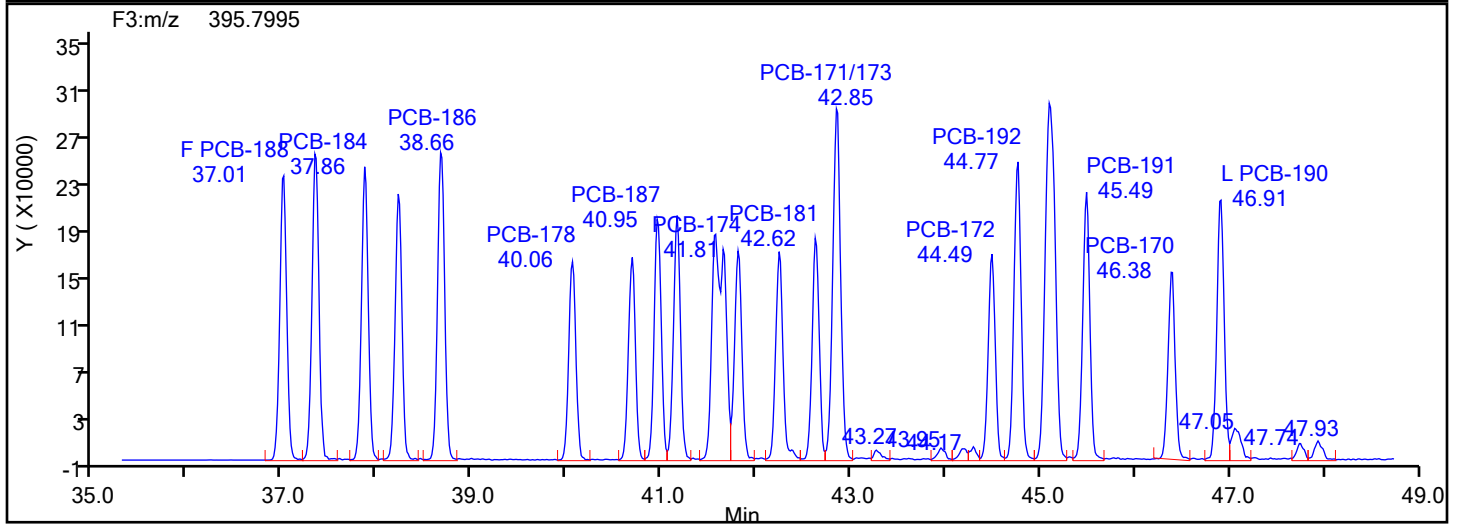
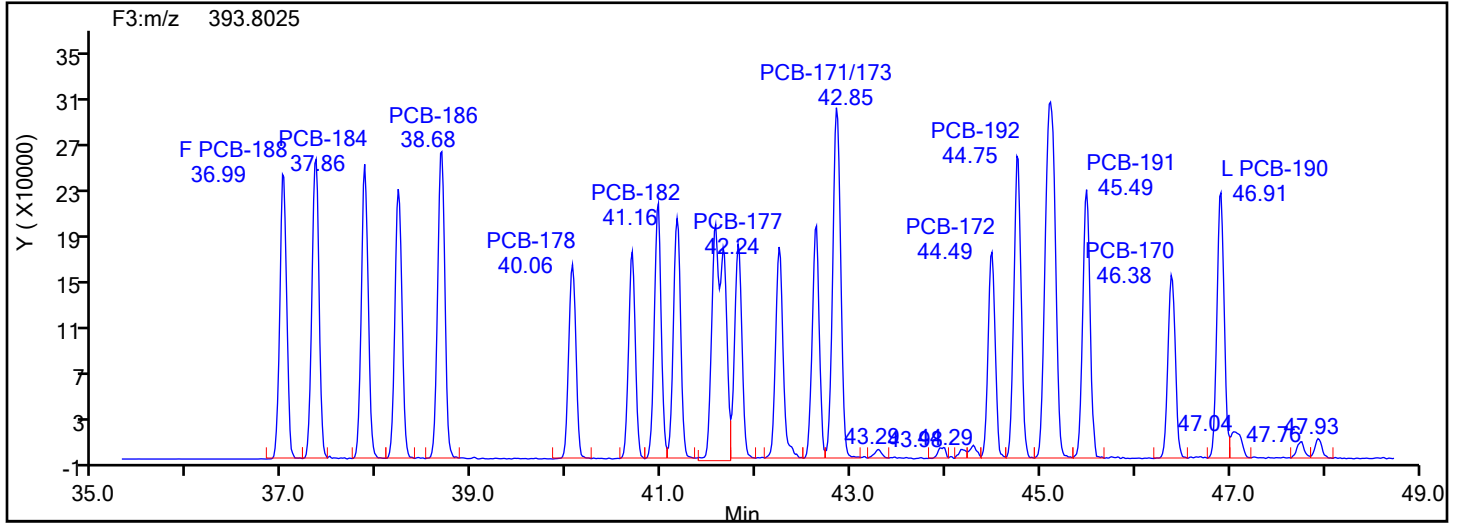
Worklist#: 87502

Sample Line#: 3

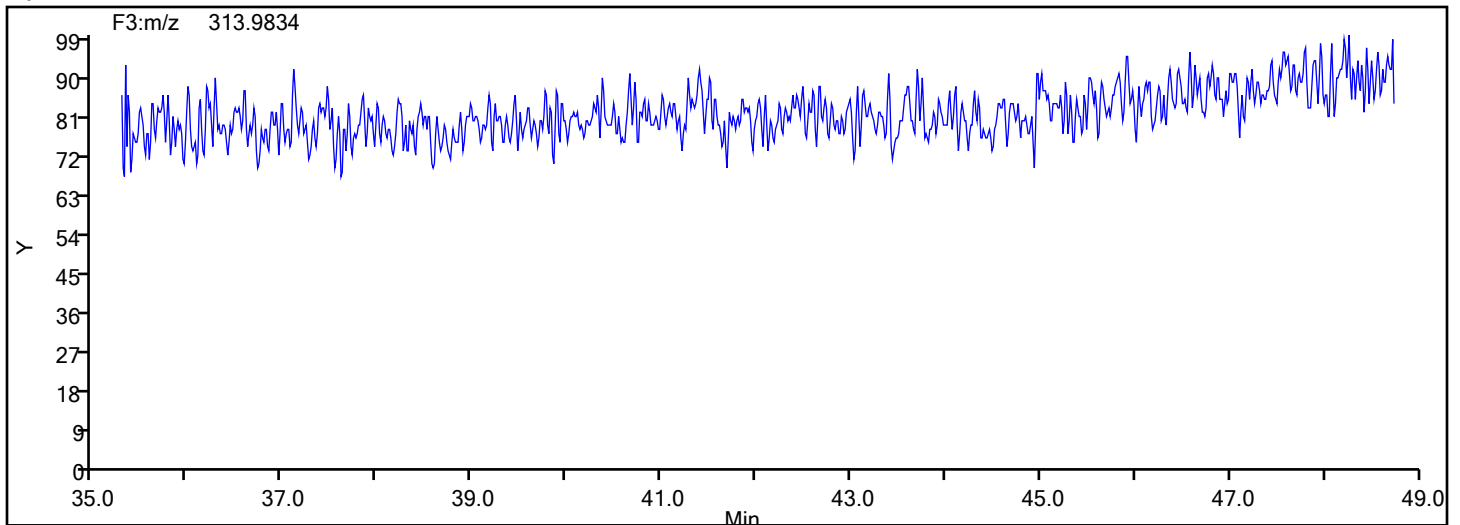
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

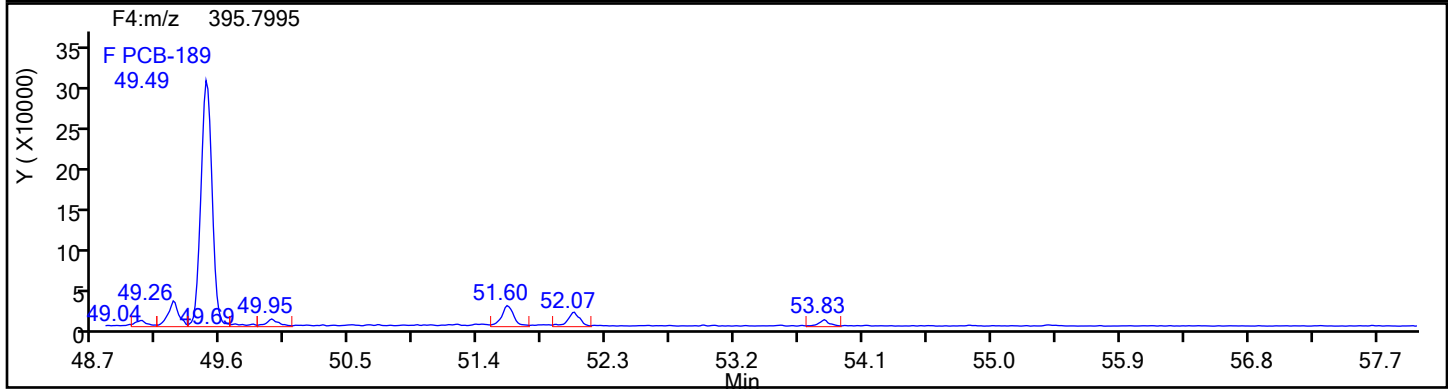
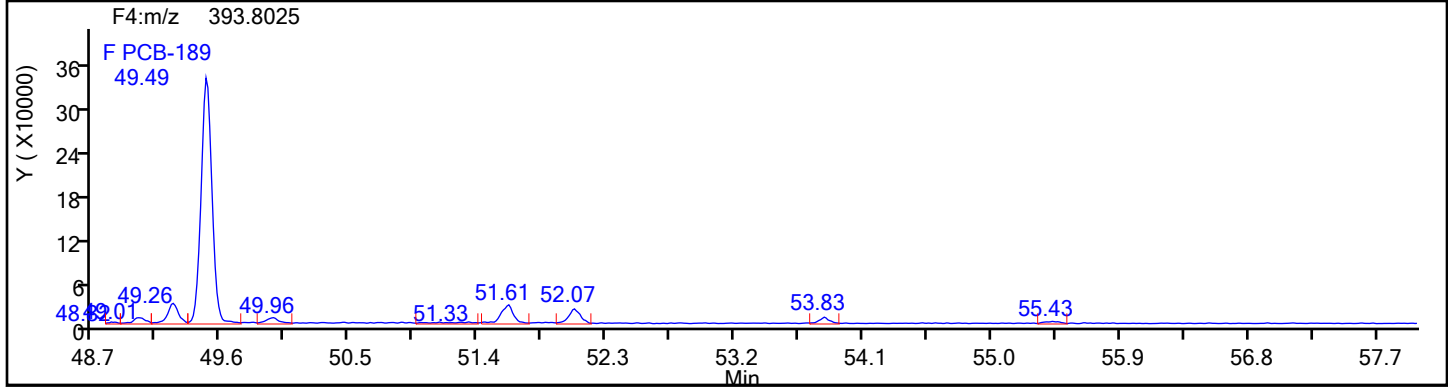
Worklist#: 87502

Sample Line#: 3

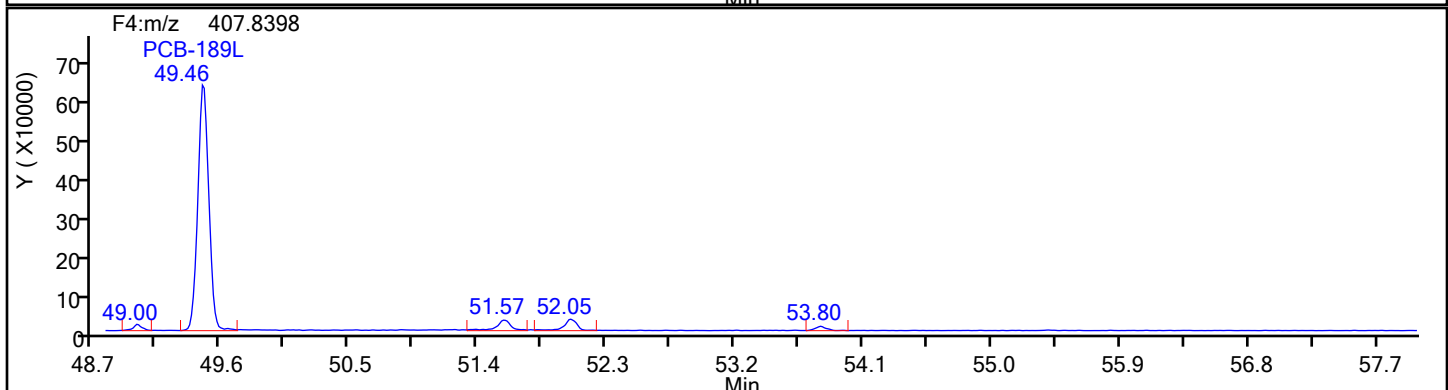
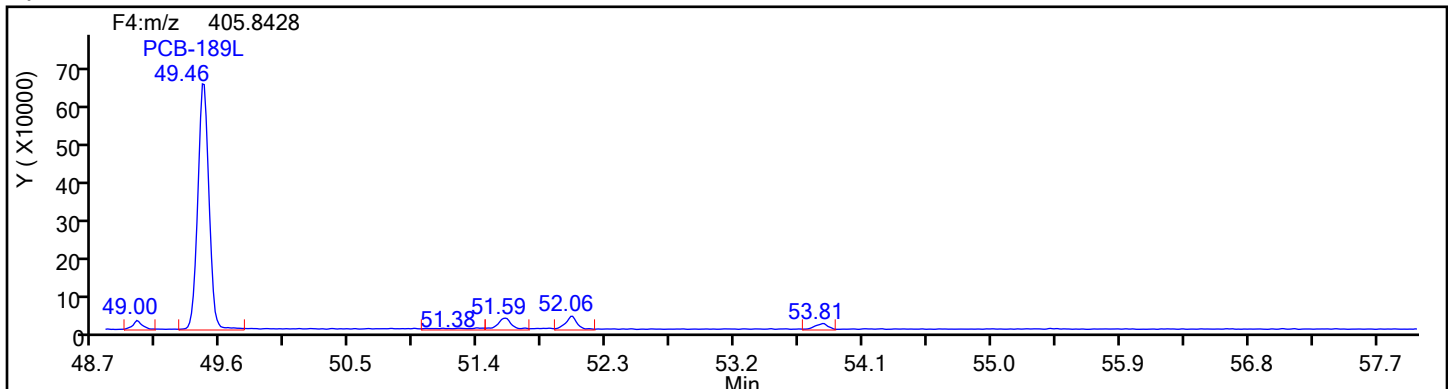
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

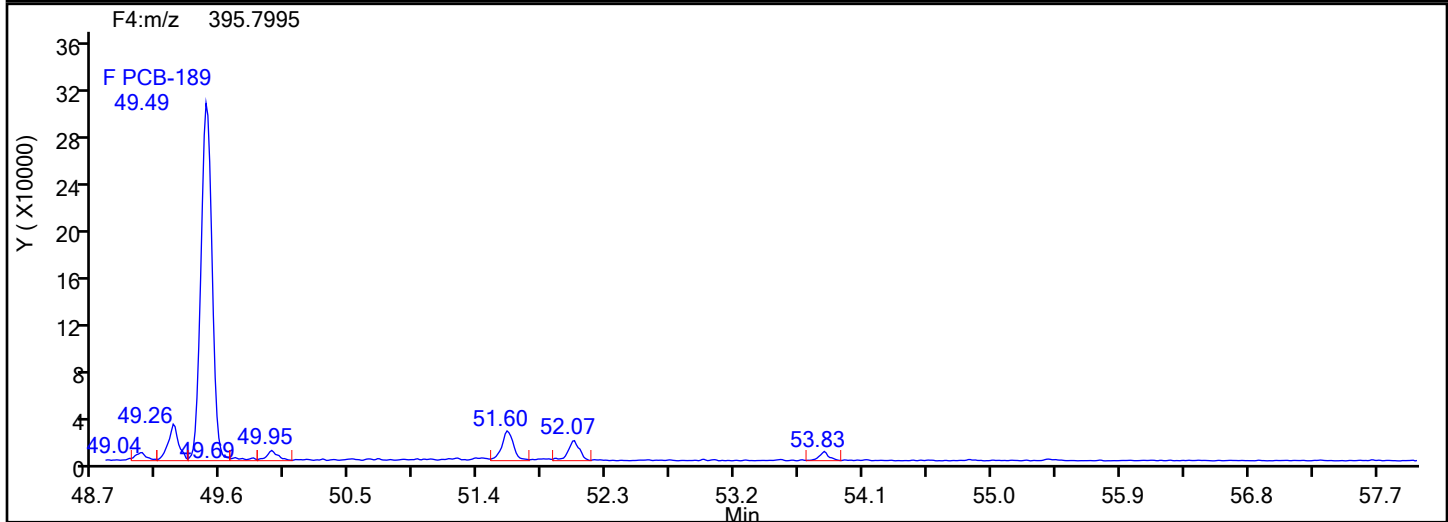
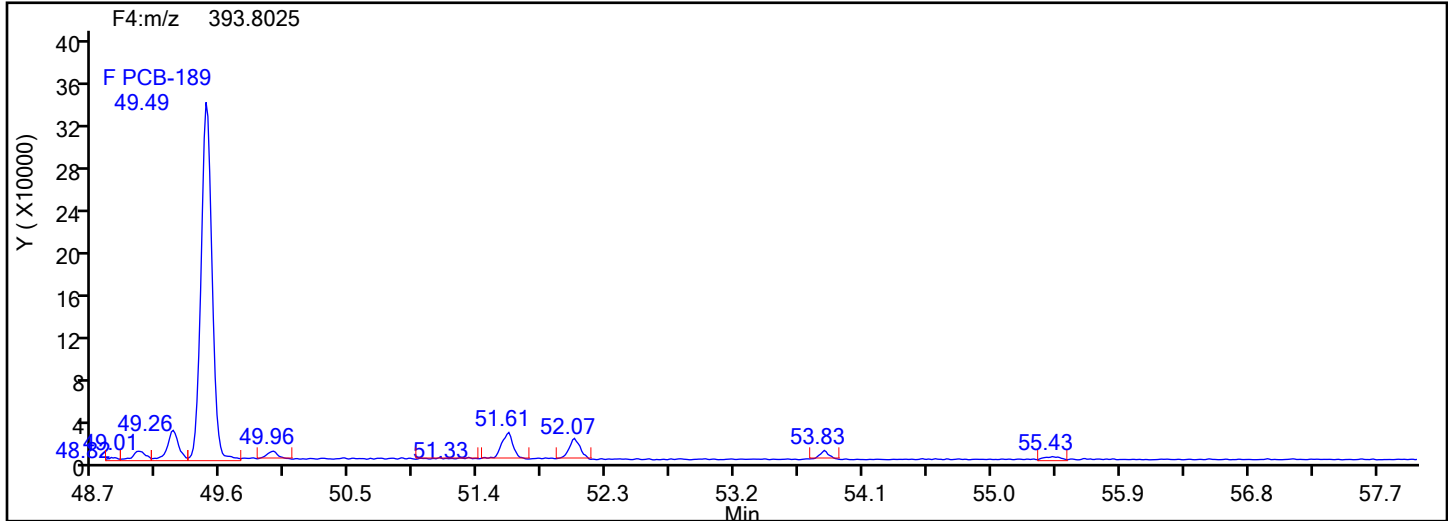
Worklist#: 87502

Sample Line#: 3

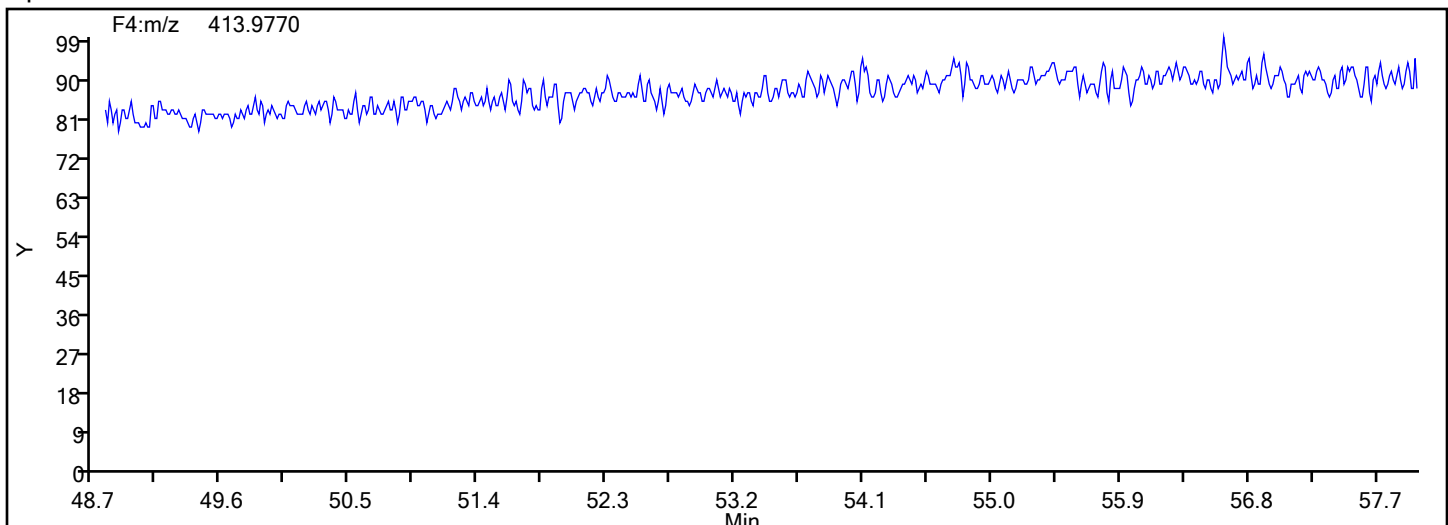
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

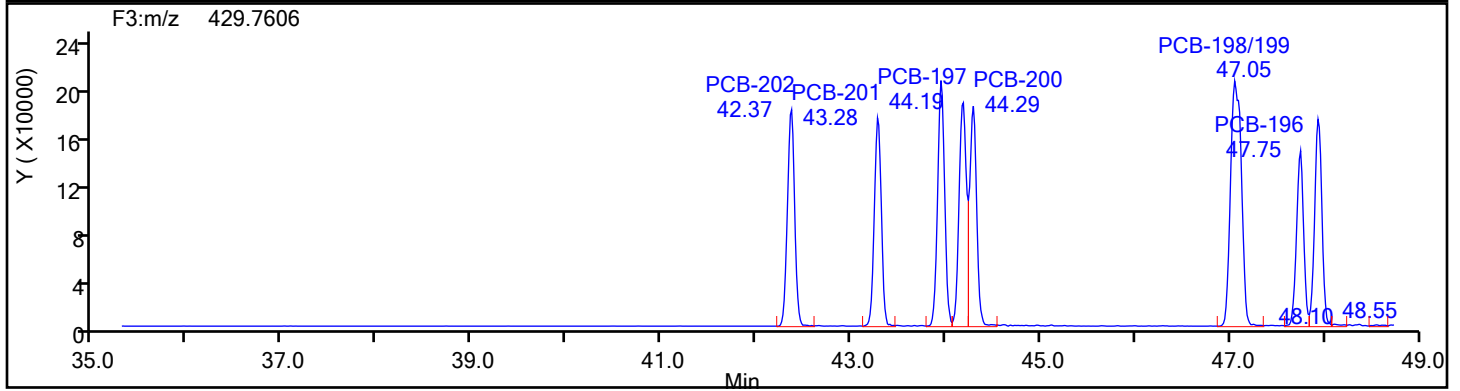
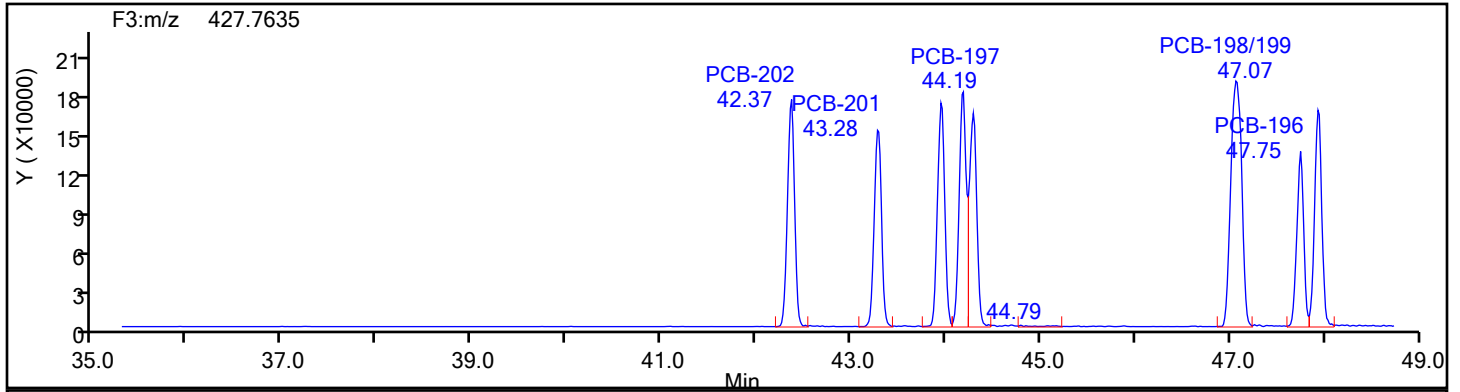
Worklist#: 87502

Sample Line#: 3

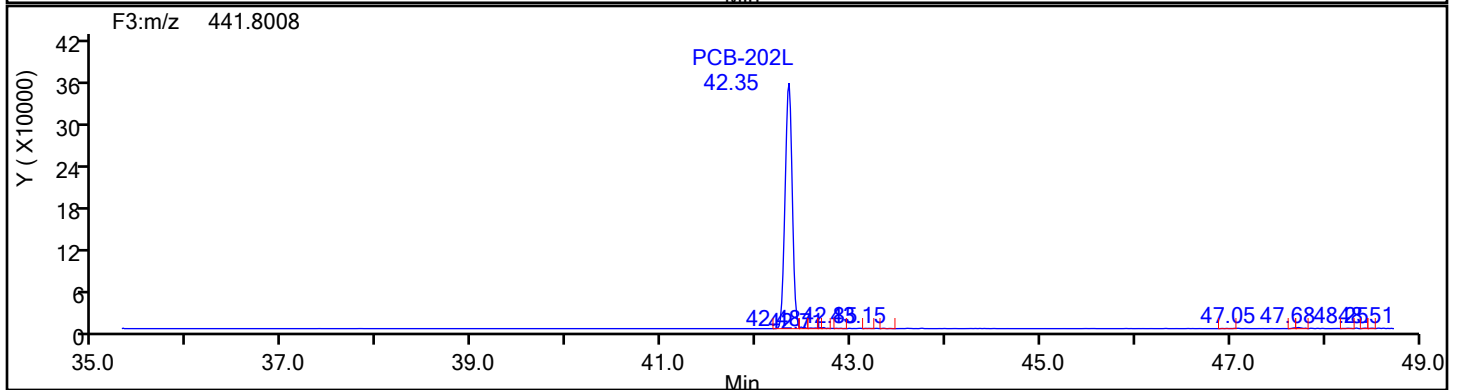
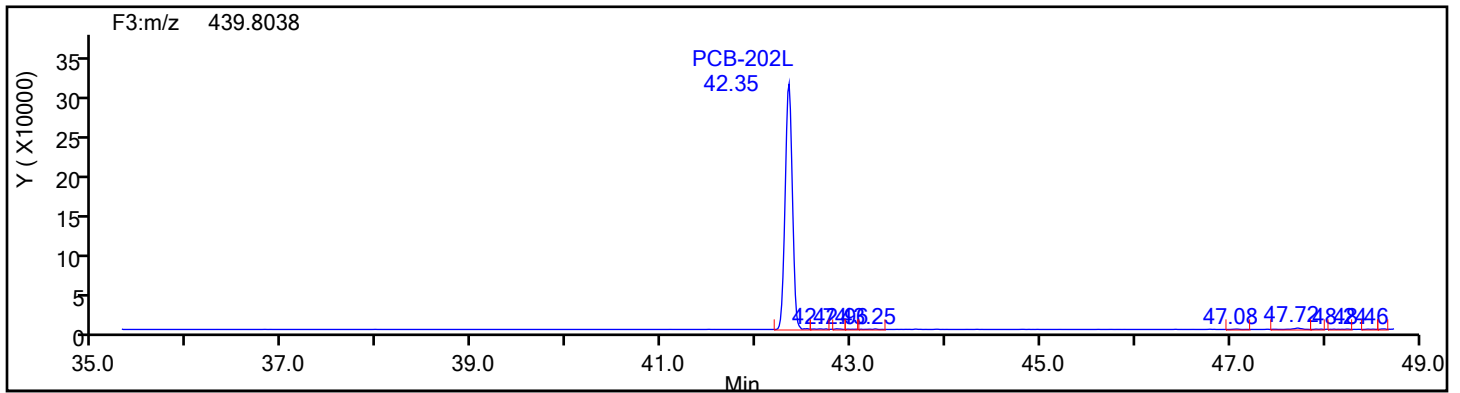
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

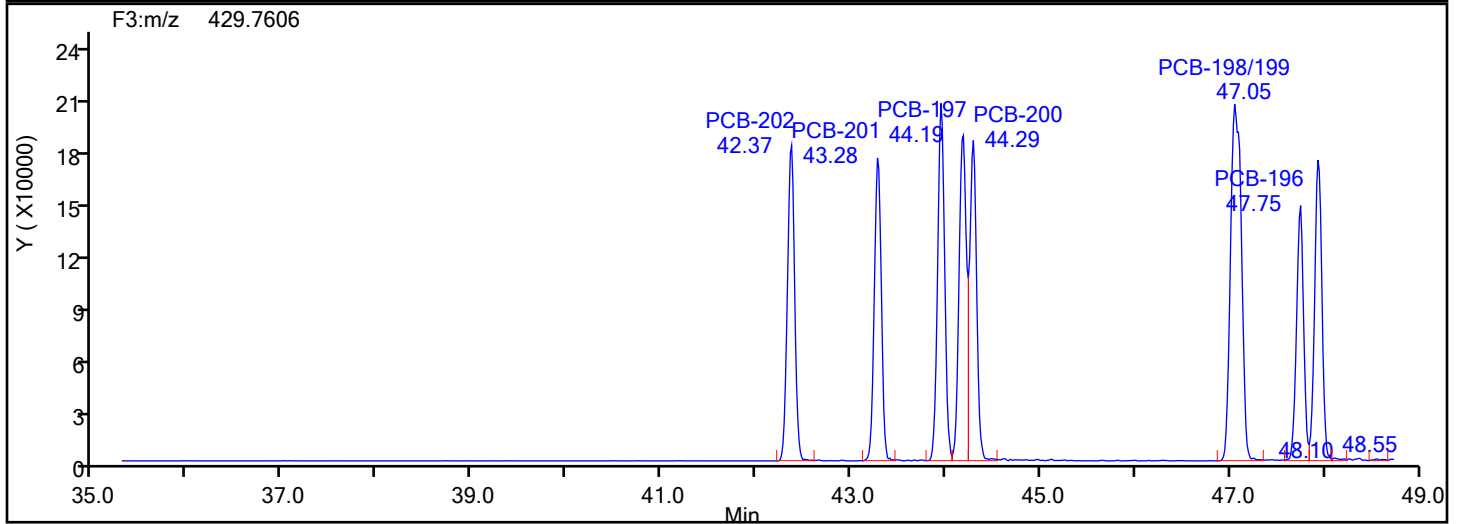
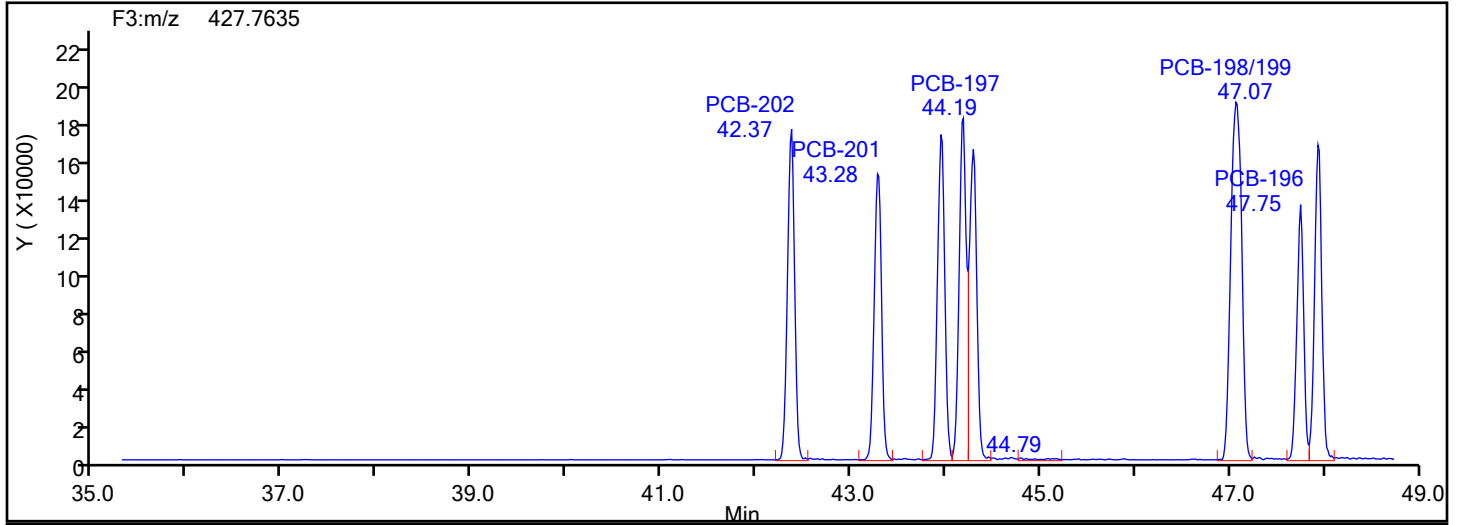
Worklist#: 87502

Sample Line#: 3

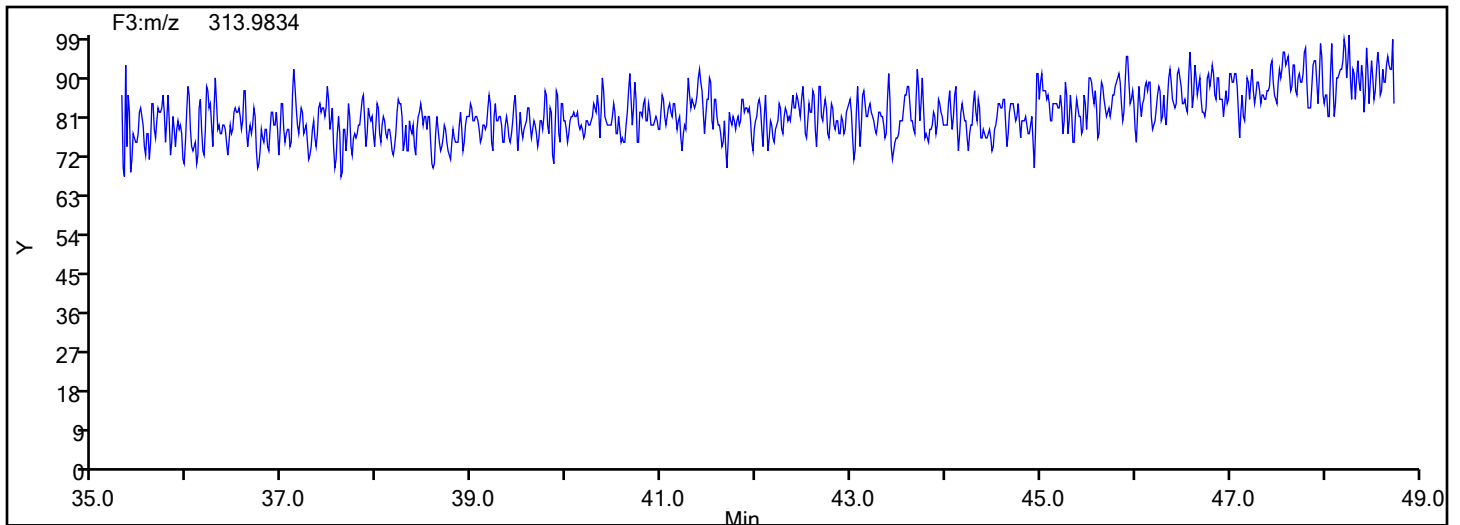
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

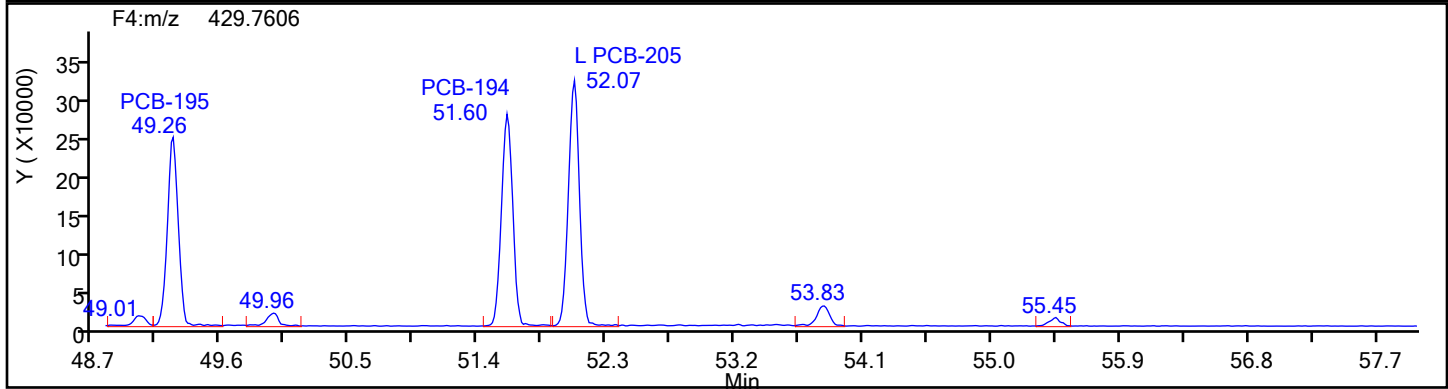
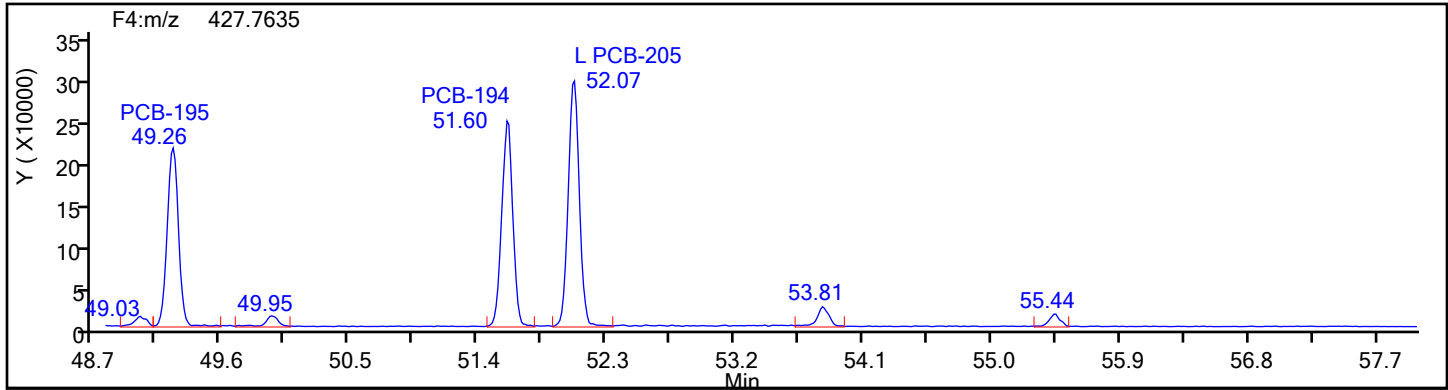
Worklist#: 87502

Sample Line#: 3

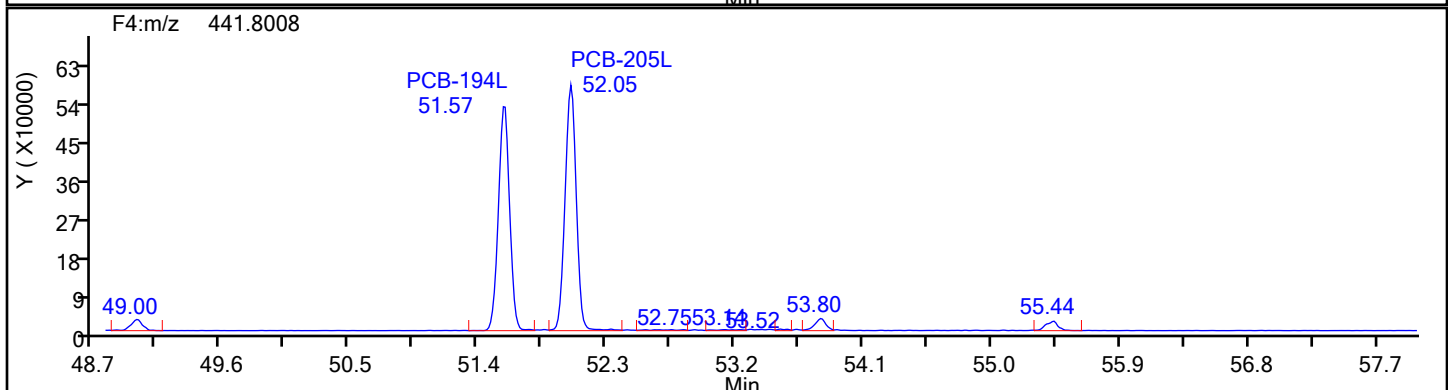
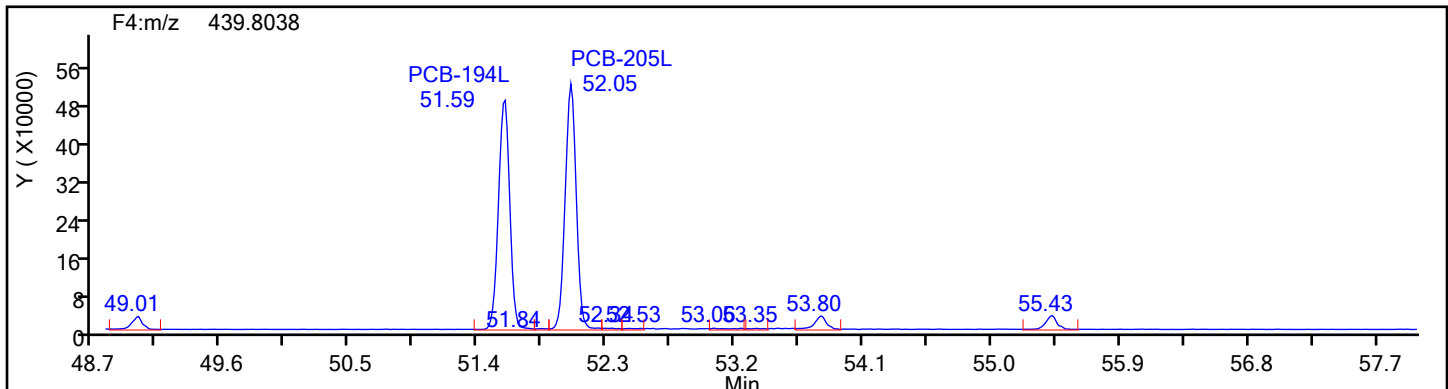
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

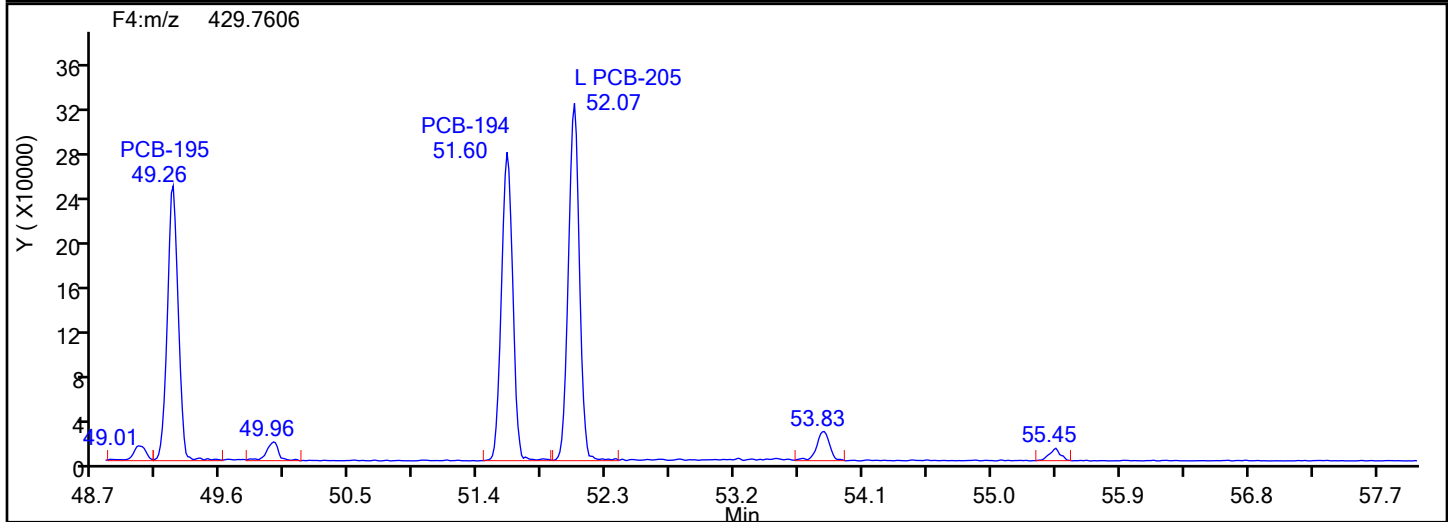
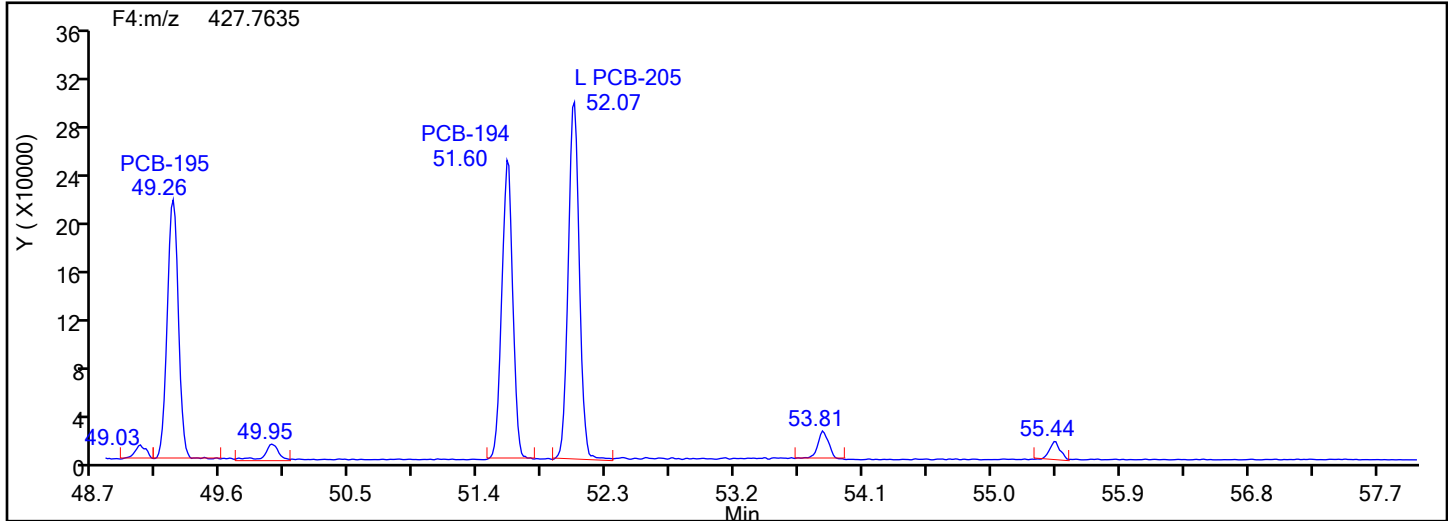
Worklist#: 87502

Sample Line#: 3

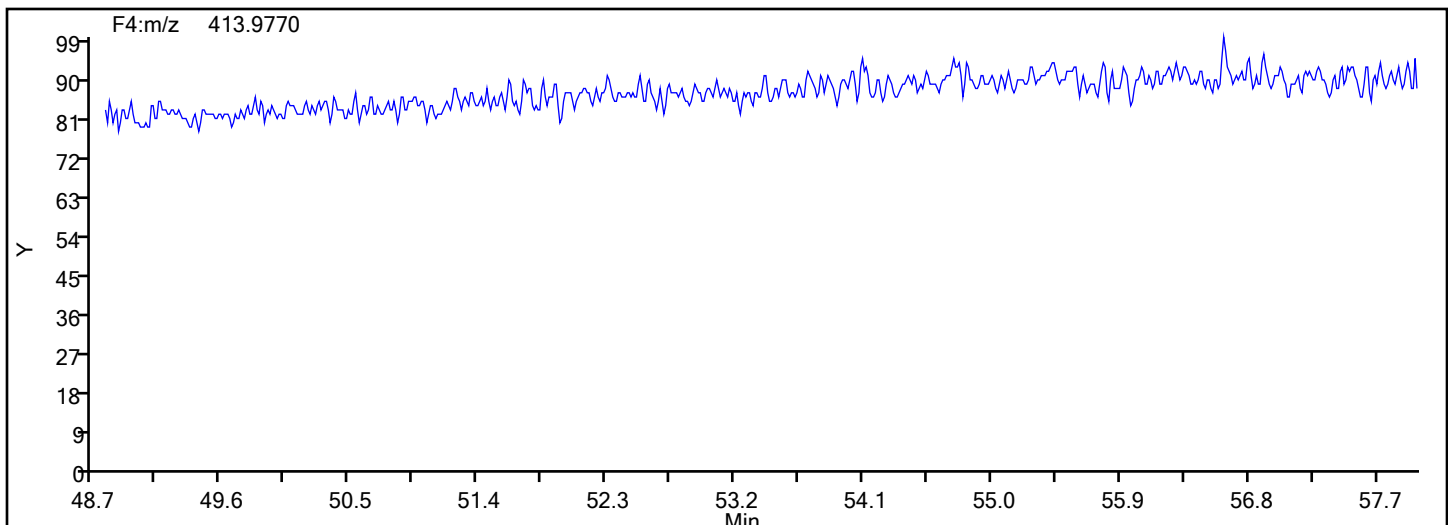
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

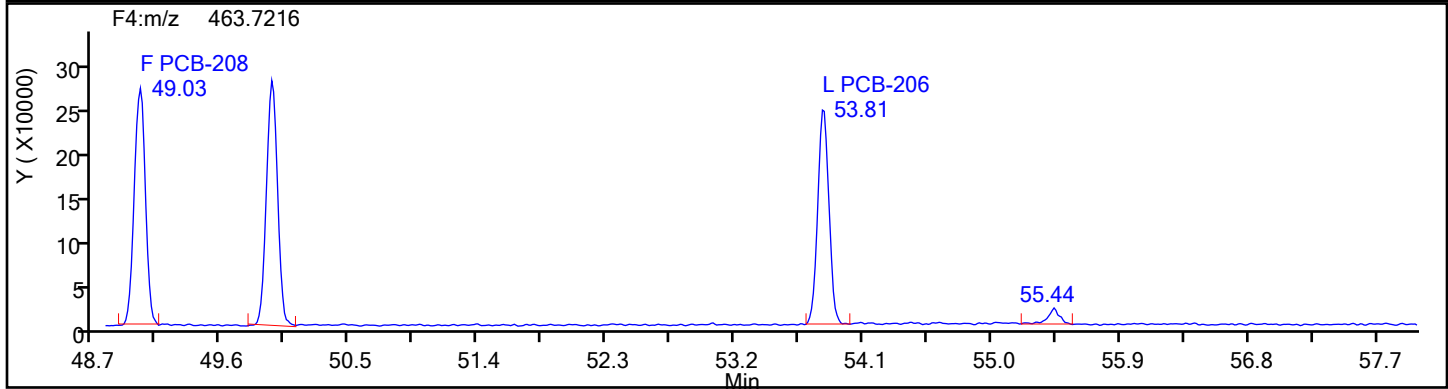
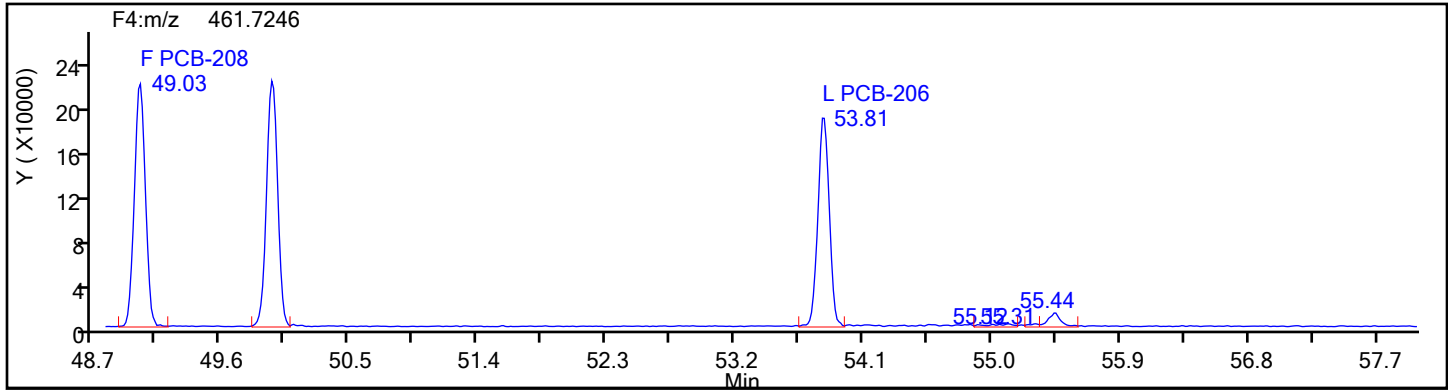
Worklist#: 87502

Sample Line#: 3

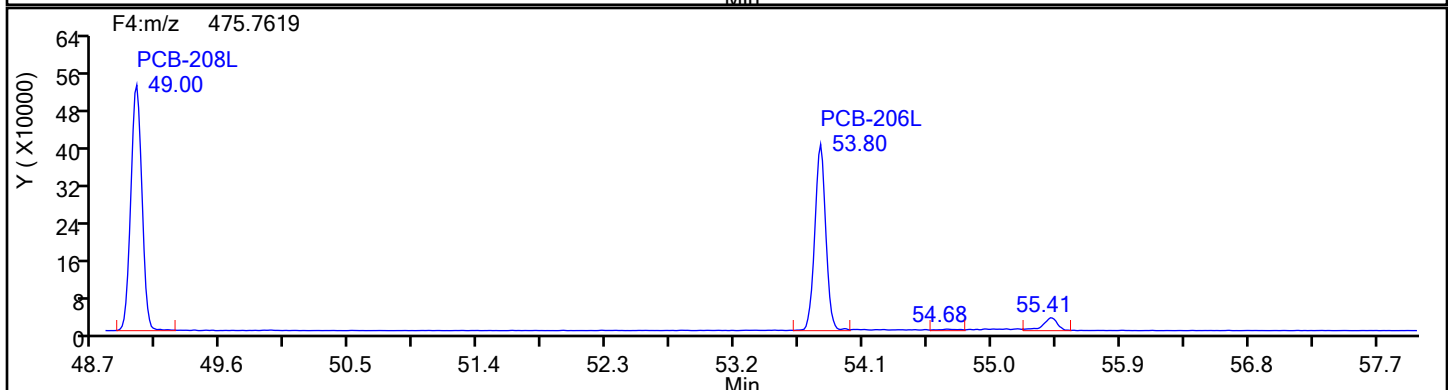
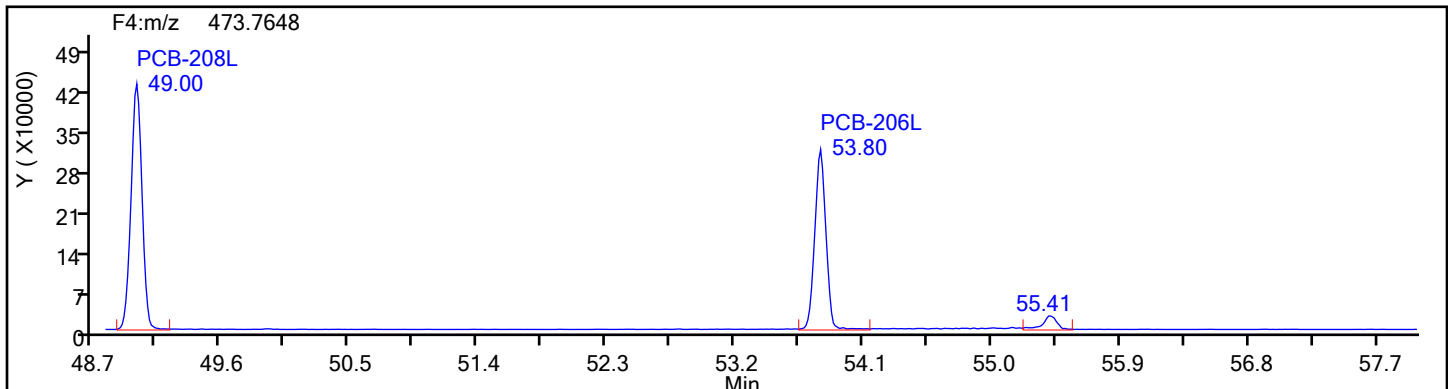
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

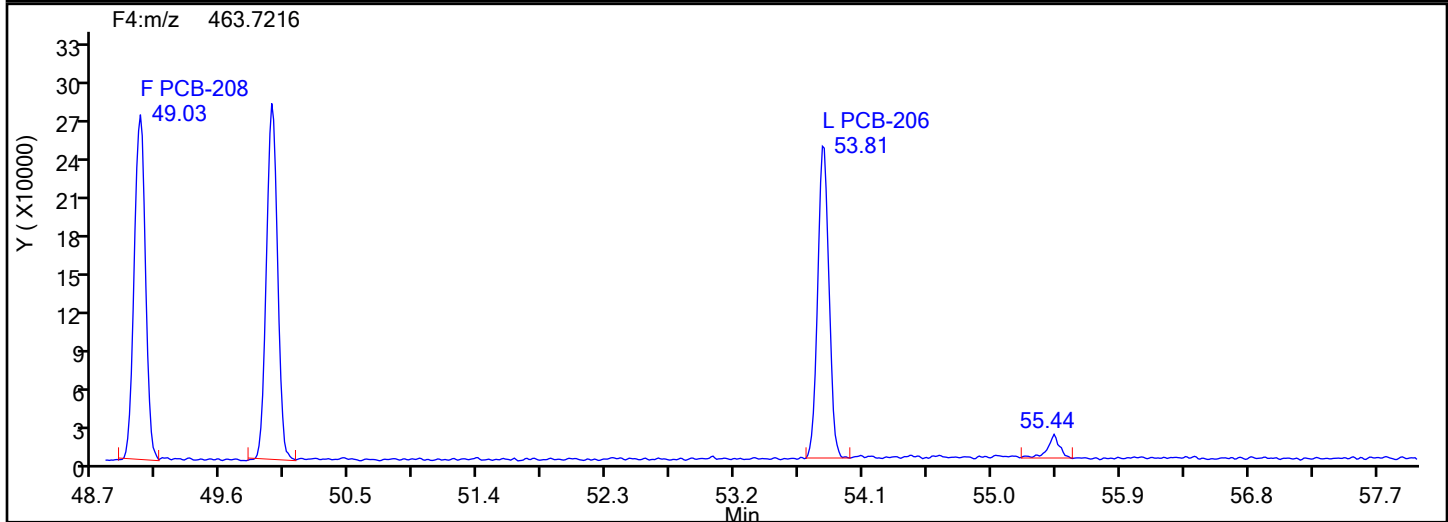
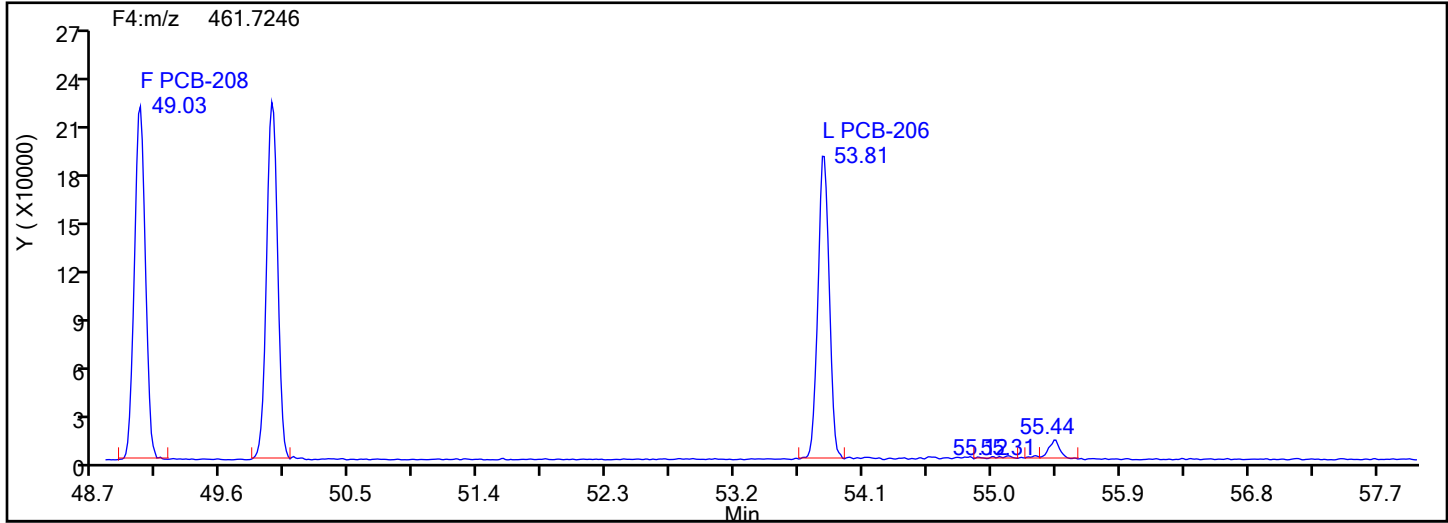
Worklist#: 87502

Sample Line#: 3

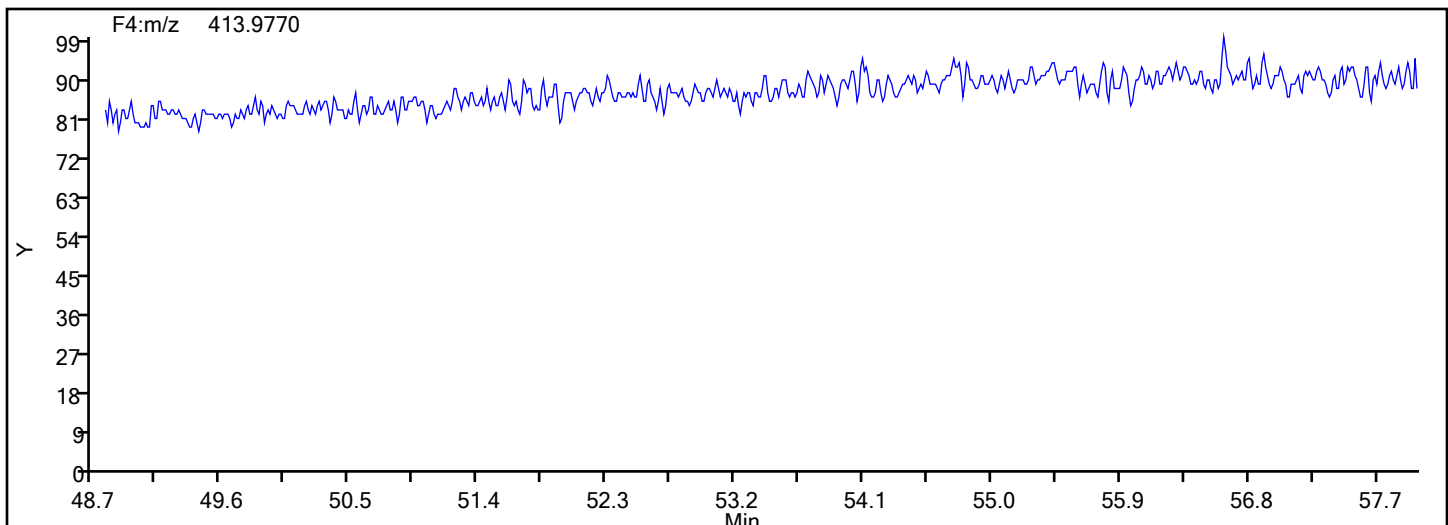
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

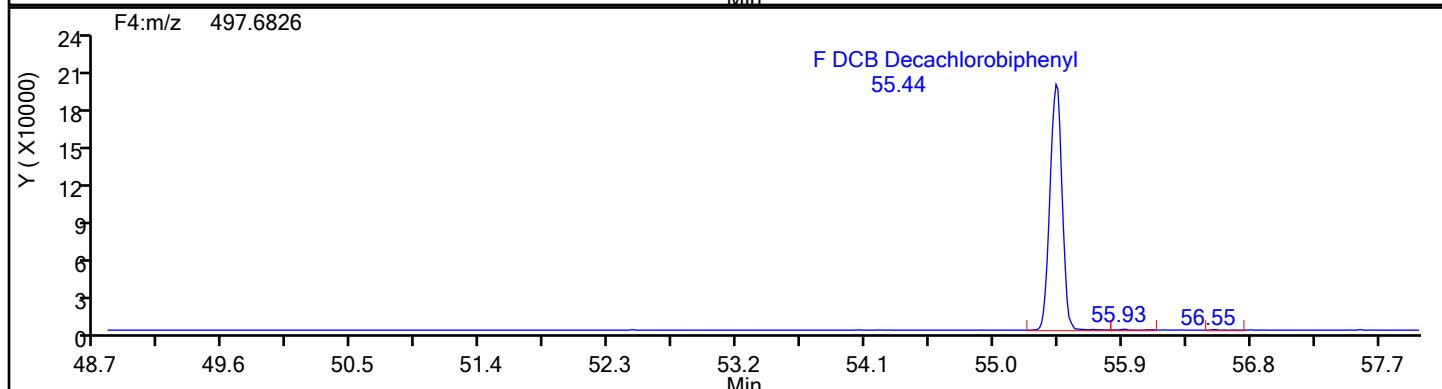
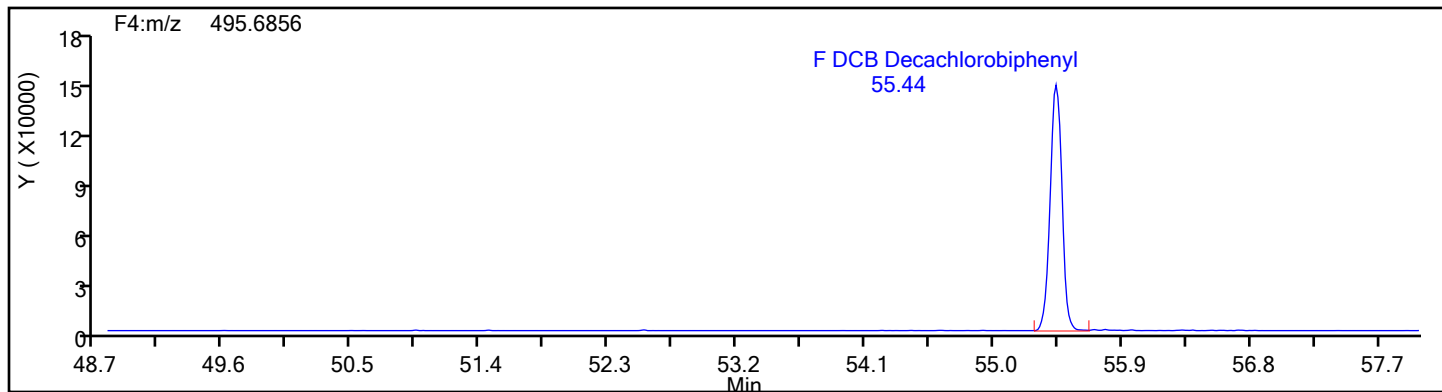
Worklist#: 87502

Sample Line#: 3

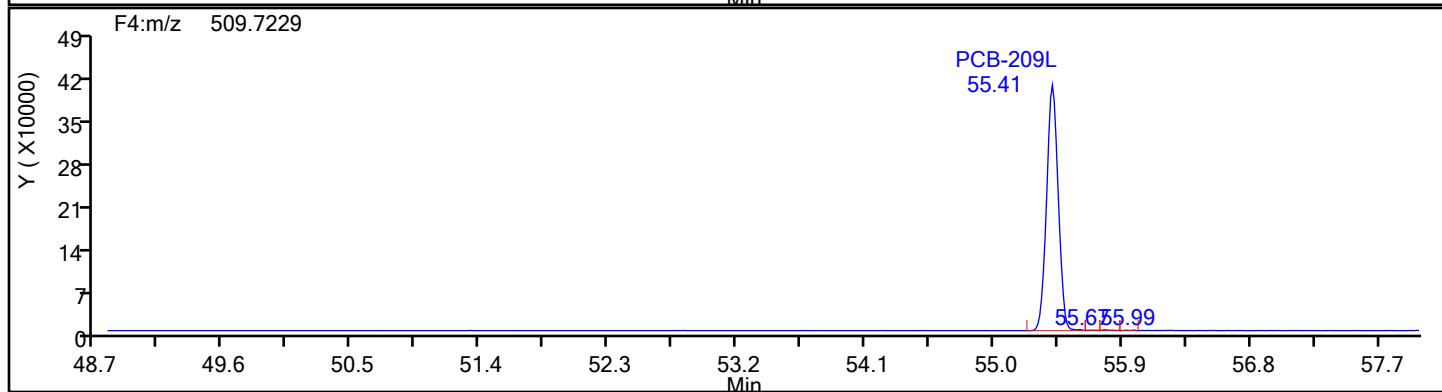
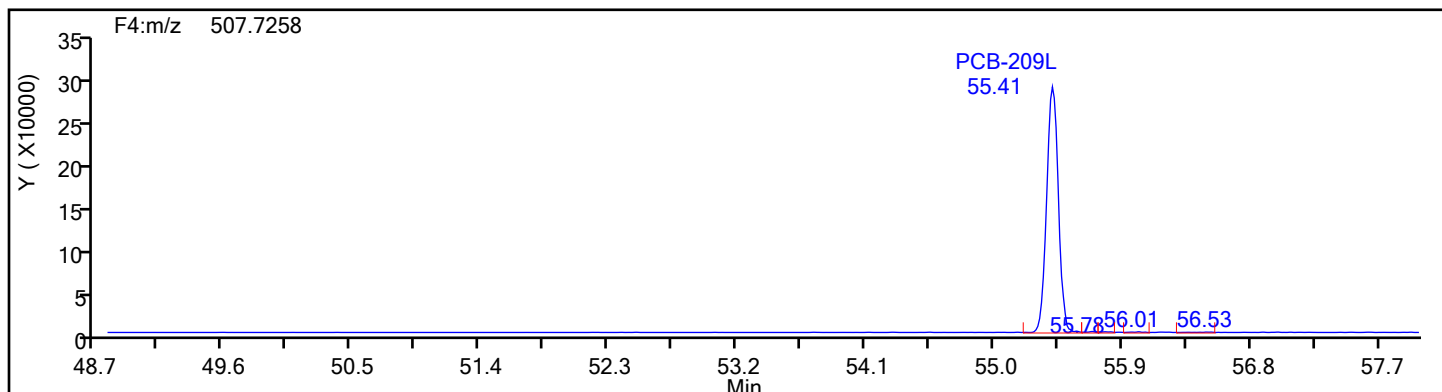
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d

Injection Date: 11-Jun-2024 12:17:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

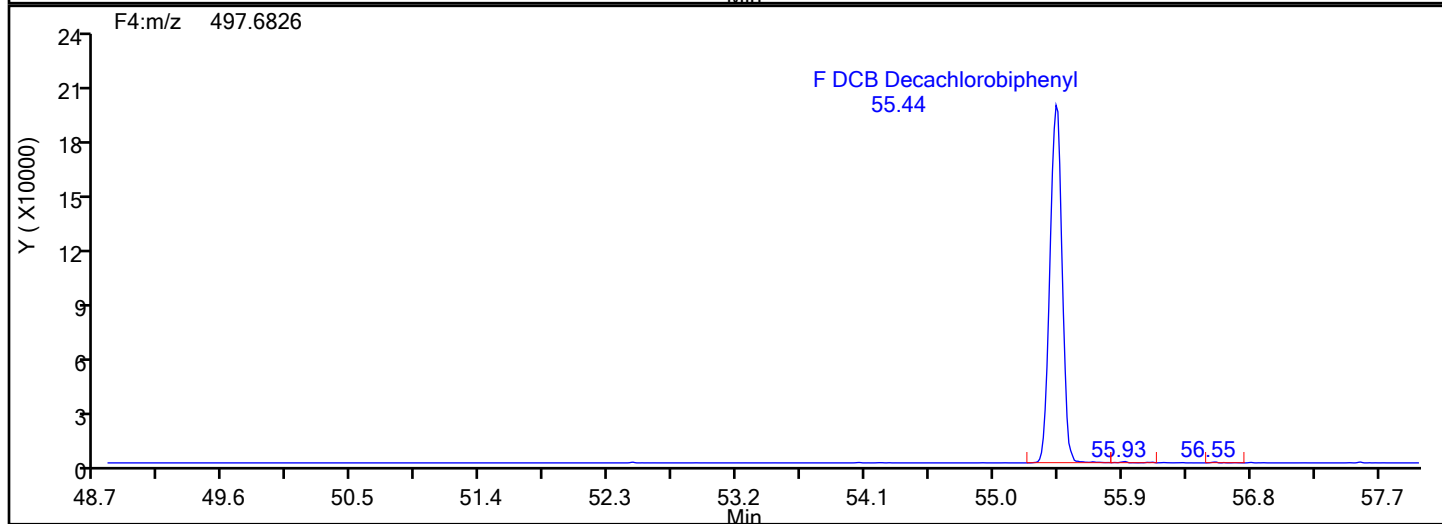
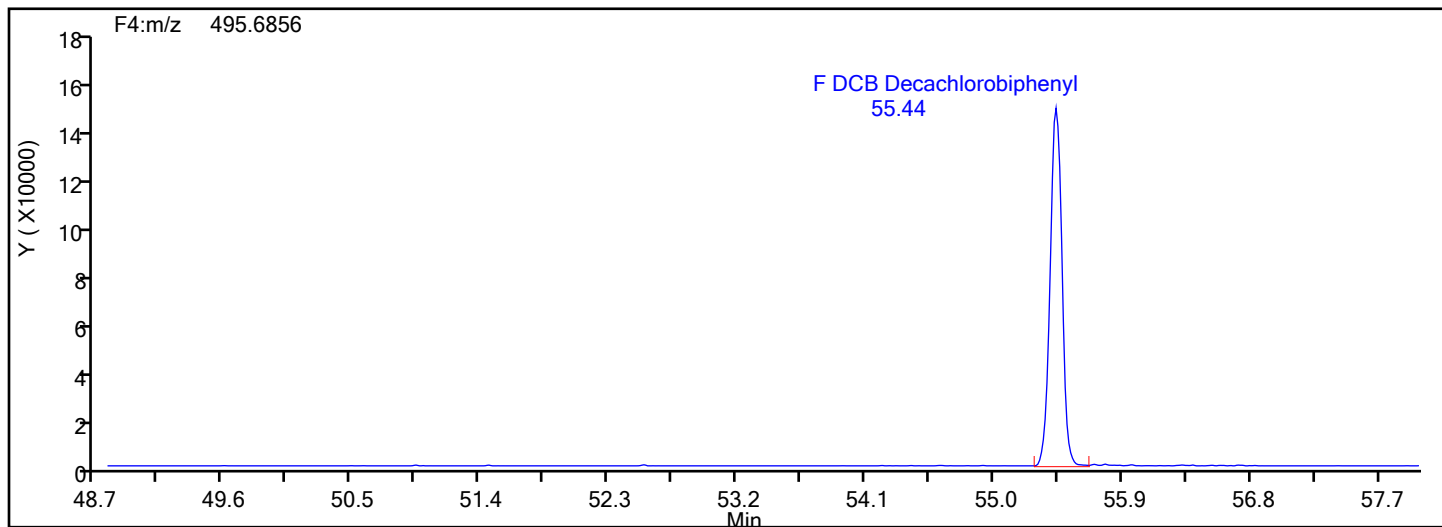
Worklist#: 87502

Sample Line#: 3

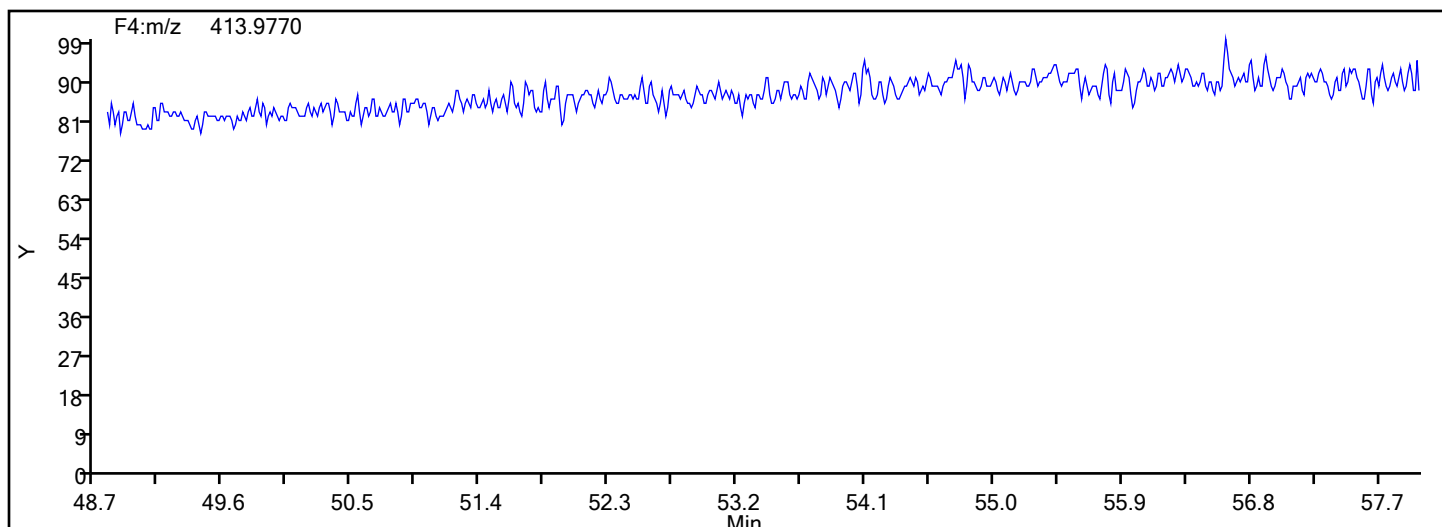
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\lcsd140-87206-16-b.d
Lims ID: LCSD 140-87206/16-B
Client ID:
Sample Type: LCSD
Inject. Date: 11-Jun-2024 12:17:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033026-003
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240611-33026.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 11-Jun-2024 14:58:57 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1603

First Level Reviewer: P0IK

Date: 11-Jun-2024 14:58:57

Compound	Amount Added	Amount Recovered	% Rec.
PCB-28L	100.0	72.7	72.72
PCB-111L	100.0	79.3	79.32
PCB-178L	100.0	83.9	83.90

HI-RES PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Start Date: 05/31/2024 14:36

Analysis Batch Number: 87130 End Date: 05/31/2024 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 140-87130/1		05/31/2024 14:36	1	d2240531pi1a.d	SPB-Octyl 0.25 (mm)
IC 140-87130/2		05/31/2024 16:53	1	d2240531pi2a.d	SPB-Octyl 0.25 (mm)
IC 140-87130/3		05/31/2024 18:00	1	d2240531pi3.d	SPB-Octyl 0.25 (mm)
IC 140-87130/4		05/31/2024 19:10	1	d2240531pi4.d	SPB-Octyl 0.25 (mm)
IC 140-87130/5		05/31/2024 20:12	1	d2240531pi5.d	SPB-Octyl 0.25 (mm)
IC 140-87130/6		05/31/2024 21:13	1	d2240531pi6.d	SPB-Octyl 0.25 (mm)
ICV 140-87130/7		05/31/2024 22:58	1	d2240531icv.d	SPB-Octyl 0.25 (mm)

Eurofins Knoxville HRMS PCB GC/MS Initial Calibration Data Review Checklist
Method 1668 or SOP Number: KNOX-ID-0013 Revision 21

Mass Res Date/Time:	5/31/24 12:51	Inst:	D2D	ICal Event #s	5117 5118 5119 (EPA_23 PCB) (1668C) (1668A)
Chrom WL #:	32883	ADII Batch #'s	87130 87131 87132 (EPA_23 PCB) (1668C) (1668A)	2nd Source Filename	d2240531.icv

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd ✓
1. Was the mass resolution documented before beginning the initial calibration?		✓			✓
2. Was the instrument resolution $\geq 8,000$ throughout ($\geq 10,000$ for m/z 342.9792, PFK) and $\geq 10,000$ in the center of each m/z range for the PFK masses or FC43 masses?		✓			✓
3. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		✓			✓
4. Have PCB Mixes 1 - 5 been analyzed using the installed column to assign congener retention times, method retention times, and MID switch points?		✓			✓
5. Were the calibration standard solutions, at the number and concentrations specified in the SOP, analyzed?		✓			✓
6. Was date/time of analysis verified as correct?		✓			✓
7. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187 in the CS3 standard?		✓			✓
8. Did the PCB co-elution 156/157 co-max within 2 seconds at peak maximum on the SPB-octyl?		✓			✓
9. Was the absolute retention time of PCB 209 greater than 55 minutes in the CS3 standard?		✓			✓
10. Were the response factors calculated for each labeled standard and unlabeled native analyte using the SOP specified reference compound (Table 2), quantitation ions (Table 8), and formula (10.3.4.2)?		✓			✓
11. Is the %RSD acceptable for all native analytes (within $\pm 20\%$ calculated by IDAs, and within $\pm 35\%$ when not calculated by IDAs)?		✓			✓
12. Is the %RSD acceptable (within $\pm 35\%$) for all labeled standards?		✓			✓
13. Are all S/N ratios ≥ 10 for the GC signals in each EICP (extracted ion chromatographic profile) including IDAs? (Exception: Secondary native dichloro biphenyl channel m/z 223.9974, PFK)		✓			✓
14. Are the ion abundance ratios for all native Toxics/LOCs and all labeled compounds within the control limits specified? (Exception: Native dichlorobiphenyls, PFK) (Table 9)		✓			✓
15. Were all toxic congeners uniquely resolved from non-toxic congeners?		✓			✓
16. Was an ICV analyzed and calculated according to Section 10.3.5 of the SOP?		✓		< 5 outliers, none more than $\pm 50\%$ D.	✓
17. If manual integrations were performed, are the analyst's name, reason and date noted in AD II?		✓			✓
18. If criteria were not met, was a NCM generated?	✓				NA
19. Do the ICAL AD II batches contain a completed checklist for this work list?		✓			✓
20. Verify the limit groups are picked correctly in the WL.		✓			✓
21. Are the reagents correct in the reagent tab?		✓			✓
22. First level "unlock/ clear" or "unlock clear by sublist" as appropriate?		✓			✓
23. All standards injected within 12 hours of the mass resolution check?		✓			✓
24. High point checked for saturation and low point at or below RL?		✓			✓
25. ICAL start/end dates correct on summary?		✓			✓
26. Final TALS review: Graphics uploaded, all points in the most recent active calibration event#, approved calibrations in TALS, ICV uploaded and included in all limit group batches?		✓			✓

Analyst: <u>BKK</u>		Date: <u>6/1/24</u>
Comments:		
2nd Level Reviewer: <u>Ch</u>		Date: <u>6-4-24</u>
Comments:		

HI-RES PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Start Date: 06/11/2024 09:41

Analysis Batch Number: 87502 End Date: 06/11/2024 20:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
WDMCCV 140-87502/1		06/11/2024 09:41	1	d2240611c1a.d	SPB-Octyl 0.25 (mm)
LCS 140-87206/15-B		06/11/2024 11:16	1	lcs140-87206-15-b.d	SPB-Octyl 0.25 (mm)
LCSD 140-87206/16-B		06/11/2024 12:17	1	lcsd140-87206-16-b.d	SPB-Octyl 0.25 (mm)
ZZZZZ		06/11/2024 14:02	1		SPB-Octyl 0.25 (mm)
MB 140-87206/17-B		06/11/2024 15:03	1	mb140-87206-17-b.d	SPB-Octyl 0.25 (mm)
140-36689-1	M23-NO.3 BOILER-RUN 1 COMBINED	06/11/2024 16:04	1	140-36689-a-1-c.d	SPB-Octyl 0.25 (mm)
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	06/11/2024 17:06	1	140-36689-a-2-c.d	SPB-Octyl 0.25 (mm)
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	06/11/2024 18:07	1	140-36689-a-3-c.d	SPB-Octyl 0.25 (mm)
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	06/11/2024 19:08	1	140-36689-a-4-c.d	SPB-Octyl 0.25 (mm)
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	06/11/2024 20:09	1	140-36689-a-5-c.d	SPB-Octyl 0.25 (mm)

Eurofins Knoxville HRMS PCB Continuing Calibration Data Review Checklist
Method 1668 or SOP Number: KNOX-ID-0013 Revision 21

Start Mass Res:	09:25	WL #:	33026	CS3 Filename:	d2240611c1a	Inst/ Date:	D2D 6-11-24
End Mass Res:	21:10	AD II Batches:	87502	ICAL/ ADII Batch/ Event:			87130/5117

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift and is data verified as within the 12 hour clock?		✓			✓
2. Were all graphics uploaded to AD II?		✓			✓
3. Was the mass resolution scanned and attached to the corresponding WDMCCV?		✓			✓
4. Was the instrument resolution $\geq 8,000$ throughout ($\geq 10,000$ for m/z 342.9792) and $\geq 10,000$ in the center of each m/z range for the PFK masses as listed in the SOP or $\geq 10,000$ in the center of each m/z range for the FC43 masses as listed in the SOP.		✓			✓
5. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		✓			✓
6. Were the date and time of analysis verified as correct?		✓			✓
7. Were the MID switch points set to encompass the retention time windows of each congener group?		✓			✓
8. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187?		✓			✓
9. Did the PCB co-elution 156/157 co-max within 2 sec at peak max on the SPB-octyl?		✓			✓
10. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		✓			✓
11. Was the %D for all Toxic analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Was the %D for all LOC analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		✓			✓
12. Was the %D for all non-toxic/non-LOC analytes within $\pm 30\%$ (for all versions of 1668)?		✓			✓
13. Were the response factors calculated for each labeled standard and unlabeled target analyte using the SOP specified reference compound (Table 2), quantitation ions (Table 8), and formula (10.3.4.2)?		✓			✓
14. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?		✓			✓
15. Are %D within $\pm 50\%$ for all labeled IDAs (for 1668A/B) or $-50/+45\%$ (for 1668C) in the calibration?		✓			✓
16. Are the %D within $\pm 50\%$ for all labeled field surrogates (for all versions of 1668) in the calibration?		✓			✓
17. Are the %D within $-40/+30\%$ (for 1668A/B) or $\pm 25\%$ (for 1668C) for all labeled surrogates in the calibration? Note: for 1668C, PCB28L's lower limit can extend to -35%D.		✓			✓
18. Are all S/N ratios ≥ 10 for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		✓			✓
19. Are RRTs of all unlabeled toxic/LOC analytes within their respective RRT limits?		✓			✓
20. If manual integrations were performed, are they clearly identified in the AD II batch with the analyst, date and reason?		✓			✓
21. If criteria were not met, was a NCM generated?	✓	✓			N/A
22. Do the AD II batches contain a completed checklist for this work list?		✓			✓

Analyst: <i>mef</i>		Date: <i>6-12-24</i>
Comments:		
2nd Level Reviewer: <i>MAC by mef</i>		Date: <i>6-12-24</i>
Comments:		

Eurofins Knoxville HRMS PCB Batch Data Review Checklist
Method 1668 - KNOX-ID-0013-R21

WL #: 33026

ADII Batch #(s): 87502

Review Items	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Was the correct ICAL used for quantitation? (Check the ICAL event number in every sample and CCV.)		✓			✓
2. Have the appropriate checklists been completed for the Work List?		✓			✓
3. Were all special project requirements met (checked in backlog report and in AD II)?		✓			✓
4. DoD requirements met?	✓			<input type="checkbox"/> NCM#140-48351: Add to Case Narrative if Manual Integrations Performed <input type="checkbox"/> Narrate reasons for multiple analyses of samples	N/A
5. Were the prep factors and dilution factors verified in AD II?		✓		<input type="checkbox"/> Dilution-Respike IDA (NCM#_____)	✓
6. Sample analyses done within preparation and analytical holding time (Check for H-flag in sample result in AD II)?		✓		<input type="checkbox"/> Holding Time-Initial Analysis (NCM#_____) <input type="checkbox"/> Holding Time-Reanalysis (NCM#_____)	✓
7. Are IDAs, surrogates and field surrogates (if applicable) within QC limits?		✓		<input type="checkbox"/> IDA-Low-S/N 10:1 (NCM#_____) <input type="checkbox"/> IDA-High-Isotope Dilution (NCM#_____)	✓
8. Are IDAs, surrogates and field surrogate (if applicable) ion abundance ratios within limits?		✓		<input type="checkbox"/> Abundance ratio outside limit for IDA (NCM#_____)	✓
9. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in section 12.1 of the SOP calculated and reported as EMPCs?		✓			✓
10. Are positive results within calibration range?		✓		<input type="checkbox"/> ICAL-Range Exceed; No Sat. (NCM#_____)	✓
11. Are all non-detects that are G-qualified narrated?	✓			<input type="checkbox"/> (NCM#_____)	N/A
12. Are all manual integrations documented with analyst ID, reason and date in AD II?		✓			✓
13. Are all graphics uploaded to AD II?		✓			✓
14. Final report acceptable (1. Job Data Review was checked and all CCV's, QC, and samples are turned to 2 nd level, 2. The narrative was checked in Supervisor Desktop for all deviations and grammar errors, and 3. All QC links were verified and at least one sample from every job is linked to the ICAL)?		✓			✓
15. LCS done per prep batch and all LCS/LCSD recoveries and RPDs within QC limits?		✓		<input type="checkbox"/> LCS/LCSD-%R High (NCM#_____) <input type="checkbox"/> LCS/LCSD-Insuff. Sample (NCM#_____)	✓
16. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓
17. Are all analytes present in the method blank \leq EML or within the specific program requirements?		✓		<input type="checkbox"/> Method Blank-Report, 10X (NCM#_____) <input type="checkbox"/> Method Blank-Report ND (NCM#_____) <input type="checkbox"/> Method Blank-Insuff. Sample NCM#_____	✓

1st Level Reviewed by: BKK / mmp

Date: 6-12-24

Comments:

2nd Level Reviewed by: MAC ⁶⁷ mmp

Date: 6-12-24

Comments:

HI-RES PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Start Date: 06/11/2024 21:36

Analysis Batch Number: 87536 End Date: 06/12/2024 07:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
WDMCCV 140-87536/1		06/11/2024 21:36	1	d2240611c2a.d	SPB-Octyl 0.25 (mm)
ZZZZZ		06/11/2024 23:26	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/12/2024 00:31	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/12/2024 01:32	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/12/2024 02:33	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/12/2024 03:34	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/12/2024 04:35	1		SPB-Octyl 0.25 (mm)
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	06/12/2024 05:36	1	140-36689-a-6-c .d	SPB-Octyl 0.25 (mm)
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	06/12/2024 06:37	1	140-36689-a-7-c .d	SPB-Octyl 0.25 (mm)
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	06/12/2024 07:39	1	140-36689-a-8-c .d	SPB-Octyl 0.25 (mm)

Eurofins Knoxville HRMS PCB Continuing Calibration Data Review Checklist
Method 1668 or SOP Number: KNOX-ID-0013 Revision 21

Start Mass Res:	21:10	WL #:	33034	CS3 Filename:	d2240611c2a	Inst/ Date:	D2D/ 6-12-24
End Mass Res:	0841	AD II Batches:	87536	ICAL ADII Batch/ Event	87130/5117		

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift and is data verified as within the 12 hour clock?		✓			✓
2. Were all graphics uploaded to AD II?		✓			✓
3. Was the mass resolution scanned and attached to the corresponding WDMCCV?		✓			✓
4. Was the instrument resolution $\geq 8,000$ throughout ($\geq 10,000$ for m/z 342.9792) and $\geq 10,000$ in the center of each m/z range for the PFK masses as listed in the SOP or $\geq 10,000$ in the center of each m/z range for the FC43 masses as listed in the SOP.		✓			✓
5. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		✓			✓
6. Were the date and time of analysis verified as correct?		✓			✓
7. Were the MID switch points set to encompass the retention time windows of each congener group?		✓			✓
8. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187?		✓			✓
9. Did the PCB co-elution 156/157 co-max within 2 sec at peak max on the SPB-octyl?		✓			✓
10. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		✓			✓
11. Was the %D for all Toxic analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Was the %D for all LOC analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		✓			✓
12. Was the %D for all non-toxic/non-LOC analytes within $\pm 30\%$ (for all versions of 1668)?		✓			✓
13. Were the response factors calculated for each labeled standard and unlabeled target analyte using the SOP specified reference compound (Table 2), quantitation ions (Table 8), and formula (10.3.4.2)?		✓			✓
14. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?		✓			✓
15. Are %D within $\pm 50\%$ for all labeled IDAs (for 1668A/B) or -50/+45% (for 1668C) in the calibration?		✓			✓
16. Are the %D within $\pm 50\%$ for all labeled field surrogates (for all versions of 1668) in the calibration?		✓			✓
17. Are the %D within -40/+30% (for 1668A/B) or $\pm 25\%$ (for 1668C) for all labeled surrogates in the calibration? Note: for 1668C, PCB28L's lower limit can extend to -35%D.		✓			✓
18. Are all S/N ratios ≥ 10 for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		✓			✓
19. Are RRTs of all unlabeled toxic/LOC analytes within their respective RRT limits?		✓			✓
20. If manual integrations were performed, are they clearly identified in the AD II batch with the analyst, date and reason?		✓			✓
21. If criteria were not met, was a NCM generated?	✓				MA
22. Do the AD II batches contain a completed checklist for this work list?		✓			✓

Analyst: mpl Date: 6-12-24

Comments:

2nd Level Reviewer : MAC by mpl Date: 6-12-24

Comments:

Eurofins Knoxville HRMS PCB Batch Data Review Checklist
Method 1668 - KNOX-ID-0013-R21

WL #: 33034

ADII Batch #(s): 87536

Review Items	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Was the correct ICAL used for quantitation? (Check the ICAL event number in every sample and CCV.)		✓			✓
2. Have the appropriate checklists been completed for the Work List?		✓			✓
3. Were all special project requirements met (checked in backlog report and in AD II)?		✓			✓
4. DoD requirements met?	✓			<input type="checkbox"/> NCM#140-48351: Add to Case Narrative if Manual Integrations Performed <input type="checkbox"/> Narrate reasons for multiple analyses of samples	N/A
5. Were the prep factors and dilution factors verified in AD II?		✓		<input type="checkbox"/> Dilution-Respike IDA (NCM#_____)	✓
6. Sample analyses done within preparation and analytical holding time (Check for H-flag in sample result in AD II)?		✓		<input type="checkbox"/> Holding Time-Initial Analysis (NCM#_____) <input type="checkbox"/> Holding Time-Reanalysis (NCM#_____)	✓
7. Are IDAs, surrogates and field surrogates (if applicable) within QC limits?		✓		<input type="checkbox"/> IDA-Low-S/N 10:1 (NCM#_____) <input type="checkbox"/> IDA-High-Isotope Dilution (NCM#_____)	✓
8. Are IDAs, surrogates and field surrogate (if applicable) ion abundance ratios within limits?		✓		<input type="checkbox"/> Abundance ratio outside limit for IDA (NCM#_____)	✓
9. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in section 12.1 of the SOP calculated and reported as EMPCs?		✓			✓
10. Are positive results within calibration range?	✓	✓		<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM#_____)	✓
11. Are all non-detects that are G-qualified narrated?	✓			<input type="checkbox"/> (NCM#_____)	N/A
12. Are all manual integrations documented with analyst ID, reason and date in AD II?		✓			✓
13. Are all graphics uploaded to AD II?		✓			✓
14. Final report acceptable (1. Job Data Review was checked and all CCV's, QC, and samples are turned to 2 nd level, 2. The narrative was checked in Supervisor Desktop for all deviations and grammar errors, and 3. All QC links were verified and at least one sample from every job is linked to the ICAL)?		✓			✓
15. LCS done per prep batch and all LCS/LCSD recoveries and RPDs within QC limits?		✓		<input type="checkbox"/> LCS/LCSD-%R High (NCM#_____) <input type="checkbox"/> LCS/LCSD-Insuff. Sample (NCM#_____)	✓
16. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓
17. Are all analytes present in the method blank \leq EML or within the specific program requirements?		✓		<input type="checkbox"/> Method Blank-Report, 10X (NCM#_____) <input type="checkbox"/> Method Blank-Report ND (NCM#_____) <input type="checkbox"/> Method Blank-Insuff. Sample NCM#_____	✓

1st Level Reviewed by: BKK

Date: 6/12/24

Comments:

2nd Level Reviewed by:

MAC by mcl

Date: 6/12/24

Comments:

HI-RES PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Instrument ID: D2D Start Date: 06/12/2024 11:22

Analysis Batch Number: 87571 End Date: 06/12/2024 21:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
WDMCCV 140-87571/1		06/12/2024 11:22	1	d2240612c1a.d	SPB-Octyl 0.25 (mm)
ZZZZZ		06/12/2024 13:07	1		SPB-Octyl 0.25 (mm)
140-36689-14	M23 MEDIA CHECK A-2171 FILTER, A-2170 XAD COMBINED	06/12/2024 14:09	1	140-36689-a-14- c.d	SPB-Octyl 0.25 (mm)
ZZZZZ		06/12/2024 16:11	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/12/2024 18:13	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/12/2024 19:14	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/12/2024 20:24	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/12/2024 21:25	1		SPB-Octyl 0.25 (mm)

Eurofins Knoxville HRMS PCB Continuing Calibration Data Review Checklist
Method 1668 or SOP Number: KNOX-ID-0013 Revision 21

Start Mass Res:	11:04	WL #:	33049	CS3 Filename:	d2240612c1a	Inst/ Date:	D2D 6/12/24
End Mass Res:	22:26	AD II Batches:	87571	ICAL ADII Batch/ Event	87130/ 5117		

Review Items	N/A	Yes	No	If No, why is data reportable?	2 nd Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift and is data verified as within the 12 hour clock?		✓			✓
2. Were all graphics uploaded to AD II?		✓			/
3. Was the mass resolution scanned and attached to the corresponding WDMCCV?		✓			/
4. Was the instrument resolution $\geq 8,000$ throughout ($\geq 10,000$ for m/z 342.9792) and $\geq 10,000$ in the center of each m/z range for the PFK masses as listed in the SOP or $\geq 10,000$ in the center of each m/z range for the FC43 masses as listed in the SOP.		✓			/
5. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		✓			/
6. Were the date and time of analysis verified as correct?		✓			/
7. Were the MID switch points set to encompass the retention time windows of each congener group?		✓			/
8. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187?		✓			/
9. Did the PCB co-elution 156/157 co-max within 2 sec at peak max on the SPB-octyl?		✓			/
10. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		✓			/
11. Was the %D for all Toxic analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Was the %D for all LOC analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		✓			/
12. Was the %D for all non-toxic/non-LOC analytes within $\pm 30\%$ (for all versions of 1668)?		✓			/
13. Were the response factors calculated for each labeled standard and unlabeled target analyte using the SOP specified reference compound (Table 2), quantitation ions (Table 8), and formula (10.3.4.2)?		✓			/
14. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?		✓			/
15. Are %D within $\pm 50\%$ for all labeled IDAs (for 1668A/B) or -50/+45% (for 1668C) in the calibration?		✓			/
16. Are the %D within $\pm 50\%$ for all labeled field surrogates (for all versions of 1668) in the calibration?		✓			/
17. Are the %D within -40/+30% (for 1668A/B) or $\pm 25\%$ (for 1668C) for all labeled surrogates in the calibration? Note: for 1668C, PCB28L's lower limit can extend to -35%D.		✓			/
18. Are all S/N ratios ≥ 10 for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		✓			/
19. Are RRTs of all unlabeled toxic/LOC analytes within their respective RRT limits?		✓			/
20. If manual integrations were performed, are they clearly identified in the AD II batch with the analyst, date and reason?		✓			/
21. If criteria were not met, was a NCM generated?	✓	✓			MS
22. Do the AD II batches contain a completed checklist for this work list?		✓			/

Analyst:	BKK	Date:	6/12/24
Comments:			
map 6-13-24			
2nd Level Reviewer :	map	Date:	6/13/24
Comments:	MAC by map		

Eurofins Knoxville HRMS PCB Batch Data Review Checklist
Method 1668 - KNOX-ID-0013-R21

WL #: 33049
ADII Batch #(s): 87571

Review Items	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Was the correct ICAL used for quantitation? (Check the ICAL event number in every sample and CCV.)		✓			✓
2. Have the appropriate checklists been completed for the Work List?		✓			✓
3. Were all special project requirements met (checked in backlog report and in AD II)?		✓			✓
4. DoD requirements met?	✓			<input type="checkbox"/> NCM#140-48351: Add to Case Narrative if Manual Integrations Performed <input type="checkbox"/> Narrate reasons for multiple analyses of samples	N/A
5. Were the prep factors and dilution factors verified in AD II?		✓		<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	✓
6. Sample analyses done within preparation and analytical holding time (Check for H-flag in sample result in AD II)?		✓		<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____)	✓
7. Are IDAs, surrogates and field surrogates (if applicable) within QC limits?		✓		<input type="checkbox"/> IDA-Low-S/N 10:1 (NCM# _____) <input type="checkbox"/> IDA-High-Isotope Dilution (NCM# _____)	✓
8. Are IDAs, surrogates and field surrogate (if applicable) ion abundance ratios within limits?		✓		<input type="checkbox"/> Abundance ratio outside limit for IDA (NCM# _____)	✓
9. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in section 12.1 of the SOP calculated and reported as EMPCs?		✓			✓
10. Are positive results within calibration range?		✓		<input type="checkbox"/> ICAL-Range Exceed; No Sat. (NCM# _____)	✓
11. Are all non-detects that are G-qualified narrated?	✓			<input type="checkbox"/> (NCM# _____)	N/A
12. Are all manual integrations documented with analyst ID, reason and date in AD II?		✓			✓
13. Are all graphics uploaded to AD II?		✓			✓
14. Final report acceptable (1. Job Data Review was checked and all CCV's, QC, and samples are turned to 2 nd level, 2. The narrative was checked in Supervisor Desktop for all deviations and grammar errors, and 3. All QC links were verified and at least one sample from every job is linked to the ICAL)?		✓			✓
15. LCS done per prep batch and all LCS/LCSD recoveries and RPDs within QC limits?		✓		<input type="checkbox"/> LCS/LCSD-%R High (NCM# _____) <input type="checkbox"/> LCS/LCSD-Insuff. Sample (NCM# _____)	✓
16. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓
17. Are all analytes present in the method blank \leq EML or within the specific program requirements?		✓		<input type="checkbox"/> Method Blank-Report, 10X (NCM# _____) <input type="checkbox"/> Method Blank-Report ND (NCM# _____) <input type="checkbox"/> Method Blank-Insuff. Sample (NCM# _____)	✓

1 st Level Reviewed by: <u>BKL</u>	Date: <u>6/13/24</u>
Comments:	
2 nd Level Reviewed by: <u>MAC by mdf</u>	Date: <u>6/13/24</u>
Comments:	

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Batch Number: 87130 Batch Start Date: 05/31/24 14:36 Batch Analyst: Knight, Benjamin K

Batch Method: 23 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	61CV1668CS3 00019	61L0.51668P 00011	61L11668P 00006	61L21668P 00006	61L41668P 00006	61L51668P 00006
IC 140-87130/1		23				20 uL				
IC 140-87130/2		23					20 uL			
IC 140-87130/3		23						20 uL		
IC 140-87130/4		23			20 uL					
IC 140-87130/5		23							20 uL	
IC 140-87130/6		23								20 uL
ICV 140-87130/7		23								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	61MX209ICVS 00010					
IC 140-87130/1		23								
IC 140-87130/2		23								
IC 140-87130/3		23								
IC 140-87130/4		23								
IC 140-87130/5		23								
IC 140-87130/6		23								
ICV 140-87130/7		23			20 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Batch Number: 87206 Batch Start Date: 05/31/24 12:09 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 06/04/24 11:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	BotlFullWt	BotlEmptyWt	BotlVol	VolumeCollect	VolCondUsed	InitialAmount
140-36689-A-1	M23-NO.3 BOILER-RUN 1 COMBINED	Combined Prep, Split, 23	Air	T	1444.5 g	515.1 g	929.4 mL	929.4 mL	929.4 mL	1 Sample
140-36689-A-2	M23-NO.3 BOILER-RUN 2 COMBINED	Combined Prep, Split, 23	Air	T	1538.4 g	514.5 g	1023.9 mL	1023.9 mL	1023.9 mL	1 Sample
140-36689-A-3	M23-NO.3 BOILER-RUN 3 COMBINED	Combined Prep, Split, 23	Air	T	1469.3 g	521.2 g	948.1 mL	948.1 mL	948.1 mL	1 Sample
140-36689-A-4	M23-NO.3 BOILER-RUN 4 COMBINED	Combined Prep, Split, 23	Air	T	1408.0 g	523.1 g	884.9 mL	884.9 mL	884.9 mL	1 Sample
140-36689-A-5	M23-NO.3 BOILER-RUN 5 COMBINED	Combined Prep, Split, 23	Air	T	1434.6 g	521.3 g	913.3 mL	913.3 mL	913.3 mL	1 Sample
140-36689-A-6	M23-NO.3 BOILER-RUN 6 COMBINED	Combined Prep, Split, 23	Air	T	1442.5 g	521.2 g	921.3 mL	921.3 mL	921.3 mL	1 Sample
140-36689-A-7	M23-NO.3 BOILER-RUN 7 COMBINED	Combined Prep, Split, 23	Air	T	1860.5 g	797.4 g	1063.1 mL	1063.1 mL	1063.1 mL	1 Sample
140-36689-A-8	M23-NO.3 BOILER-RUN FB COMBINED	Combined Prep, Split, 23	Air	T	819.7 g	520.3 g	299.4 mL	299.4 mL	299.4 mL	1 Sample
140-36689-A-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED	Combined Prep, Split, 23	Air	T						1 Sample
LCS 140-87206/15		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample
LCSD 140-87206/16		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample
MB 140-87206/17		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	61FS1668P 00007	61ID1668WRK 00054	61SP1668WRK 00010		
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The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Batch Number: 87206 Batch Start Date: 05/31/24 12:09 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 06/04/24 11:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	61FS1668P 00007	61ID1668WRK 00054	61SP1668WRK 00010		
140-36689-A-1	M23-NO.3 BOILER-RUN 1 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36689-A-2	M23-NO.3 BOILER-RUN 2 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36689-A-3	M23-NO.3 BOILER-RUN 3 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36689-A-4	M23-NO.3 BOILER-RUN 4 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36689-A-5	M23-NO.3 BOILER-RUN 5 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36689-A-6	M23-NO.3 BOILER-RUN 6 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36689-A-7	M23-NO.3 BOILER-RUN 7 COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36689-A-8	M23-NO.3 BOILER-RUN FB COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36689-A-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED	Combined Prep, Split, 23	Air	T	30 mL		3 mL			
LCS 140-87206/15		Combined Prep, Split, 23			30 mL		3 mL	3 mL		
LCSD 140-87206/16		Combined Prep, Split, 23			30 mL		3 mL	3 mL		
MB 140-87206/17		Combined Prep, Split, 23			30 mL		3 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.:

Batch Number: 87206 Batch Start Date: 05/31/24 12:09 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 06/04/24 11:00

Batch Notes	
MeCL2 ID	241697
Sulfuric Acid ID	682487
Hexane ID	24C1862008
Analyst ID - TA Reagent Drop	ss
Analyst ID - IDA Reagent Drop	ss
Analyst ID - TA Reagent Drop Witness	dm
Analyst ID - IDA Reagent Drop Witness	dm
Analyst ID - Extraction	ss
Extraction 1 Start Time	15:50
First Extraction Start Date	06/03/2024
Extraction 1 End Time	08:15
First Extraction End Date	06/04/2024 08:15
Analyst ID - Concentration	ss
Concentration Date	06/04/2024

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Batch Number: 87335 Batch Start Date: 06/05/24 09:39 Batch Analyst: Armstrong, Catherine A

Batch Method: Split Batch End Date: 06/10/24 17:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	61CS1668WRK 00035	61RS1668WRK 00037		
140-36689-A-1-B	M23-NO.3 BOILER-RUN 1 COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36689-A-2-B	M23-NO.3 BOILER-RUN 2 COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36689-A-3-B	M23-NO.3 BOILER-RUN 3 COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36689-A-4-B	M23-NO.3 BOILER-RUN 4 COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36689-A-5-B	M23-NO.3 BOILER-RUN 5 COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36689-A-6-B	M23-NO.3 BOILER-RUN 6 COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36689-A-7-B	M23-NO.3 BOILER-RUN 7 COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36689-A-8-B	M23-NO.3 BOILER-RUN FB COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36689-A-14-B	M23 MEDIA CHECK A-2171 FILTER, A-2170 XAD COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
LCS 140-87206/15-A		Split, 23			10 mL	100 uL	1 mL	100 uL		
LCS 140-87206/16-A		Split, 23			10 mL	100 uL	1 mL	100 uL		
MB 140-87206/17-A		Split, 23			10 mL	100 uL	1 mL	100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36689-1

SDG No.: _____

Batch Number: 87335 Batch Start Date: 06/05/24 09:39 Batch Analyst: Armstrong, Catherine A

Batch Method: Split Batch End Date: 06/10/24 17:00

Batch Notes	
Analyst ID - SU Reagent Drop	CAL
Analyst ID - IS Reagent Drop	CAL
Analyst ID - SU Reagent Drop Witness	ALA
Analyst ID - IS Reagent Drop Witness	CAL
Hexane ID	24C1862008
Na2SO4 ID	680004
MeCL2 ID	241698
GPC ID	GPC 4
GPC Analyst	MJR
GPC Date	06/06/2024
Silica Gel C/U analyst	CAL
Silica Gel C/U Date	06/05/2024
Acid Silica Gel ID	689546
Deactivated Silica ID	669934
Analyst ID - Concentration	DAC 6/10/24, final conc. CAL 06/10/24

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Eurofins Knoxville Prep Batch Review Checklist

Batch # 87206Split Batch # 87335

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Were the samples extracted within the required holding times?		✓		If No, NCM #: _____	✓
2. Are the final extracts free of water, precipitates, multiple phases, and for HRMS - color?		✓			✓
3. Were all project specific requirements met?		✓			✓
4. Were the correct start and completion dates entered into TALS?		✓			✓
5. Are the spike IDs and volumes correct in TALS for the method?		✓			✓
6. Does the prep batch paperwork package contain all required documentation which has been properly and completely filled out, including: <ul style="list-style-type: none"> Extraction Benchsheet (Excel) Batch Worksheets (ANLY) Verify Protocol #'s (compare excel sheet to TALS) Was the Excel Extraction Benchsheet and Prep Batch Review Checklist scanned and attached to batch in TALS? 		✓			✓
7. Did extracts go through GPC cleanup? Has the following nonconformance been associated with all extracts?		✓		If Yes, <input type="checkbox"/> Clean-up Required - GPC (NCM# <u>140-56258</u>)	✓
8. Are all additional nonconformances documented appropriately?	✓			If Yes, NCM#: _____	✓
Analyst: <u>CAK</u> Date: <u>06/10/2024</u>					
Comments:					
2nd Level Reviewer: <u>CAA</u> Date: <u>6/11/24</u>					
Comments:					

Shipping and Receiving Documents

Chain of Custody Record

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

laboratories, Inc.

Alliance Source Testing AST Office: BTR Address 6110 Copperhead Road City/State/Zip Geismar, LA, 70734 256-351-0121 Phone BTRreports@stacktest.com Project Name: BASF 24-2573 Site: BASF Geismar, LA P O #		Client Contact		Project Manager: Jason LaCroix Tel/Fax:		Site Contact: Lab Contact:		Date: Carrier:		COC No: 1 of 5 COCs	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Date		Sample Time		Sample Type (G=Comp, G=Grab)		Matrix		# of Cont.	
M23 - NO. 3 BOILER - Cont #1 - Run 1		5/7/24		1430		G		A		1	
M23 - NO. 3 BOILER - Cont #2 - Run 1		5/7/24		1430		G		A		1	
M23 - NO. 3 BOILER - XAD - Run 1		5/7/24		1430		G		A		1	
M23 - NO. 3 BOILER - Cont #3 - Run 1		5/7/24		1430		G		A		1	
M23 - NO. 3 BOILER - Cont #4 - Run 1		5/7/24		1430		G		A		1	
M23 - NO. 3 BOILER - Cont #1 - Run 2		5/7/24		1940		G		A		1	
M23 - NO. 3 BOILER - Cont #2 - Run 2		5/7/24		1940		G		A		1	
M23 - NO. 3 BOILER - XAD - Run 2		5/7/24		1940		G		A		1	
M23 - NO. 3 BOILER - Cont #3 - Run 2		5/7/24		1940		G		A		1	
M23 - NO. 3 BOILER - Cont #4 - Run 2		5/7/24		1940		G		A		1	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments: Reduced Reporting, Combined FH/BH Analysis

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Received by: <i>T. Hebert</i>	Company: <i>Alliance</i>	Date/Time: <i>5/10/24 1900</i>	Therm ID No.:
Relinquished by: <i>S. LaCroix</i>	Company: <i>Alliance</i>	Received by: <i>J. LaCroix</i>	Company: <i>Alliance</i>	Date/Time: <i>5/10/24 1900</i>	
Relinquished by: <i>T. Hebert</i>	Company: <i>Alliance</i>	Received by: <i>J. LaCroix</i>	Company: <i>Alliance</i>	Date/Time: <i>5/10/24 1900</i>	
Relinquished by:	Company:	Received by:	Company:	Date/Time:	

Knoxville, TN 37921-5947
phone 865.291.3000 fax 865.584.4315

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Jason LaCroix		Site Contact:		Date:		COC No:	
Alliance Source Testing AST Office: BTR		Tel/Fax:		Lab Contact:		Carrier:		2 of 5 COCs	
Address 6110 Copperhead Road		Analysis Turnaround Time		EPA M23 - Filter		EPA M23 - FH/BH Acetone/Toluene Rinse		EPA M23 - DI H2O Imp. Contents	
City/State/Zip Geismar, LA, 70734		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		EPA M23 - XAD		EPA M23 - BH imp. Acetone/Toluene Rinse		Sampler:	
256-351-0121 Phone		TAT if different from Below		EPA M23 - XAD		EPA M23 - BH imp. Acetone/Toluene Rinse		For Lab Use Only:	
BTRreports@stacktest.com		<input type="checkbox"/> 2 weeks		EPA M23 - XAD		EPA M23 - BH imp. Acetone/Toluene Rinse		Walk-in Client:	
Project Name: BASF 24-2573		<input type="checkbox"/> 1 week		EPA M23 - XAD		EPA M23 - BH imp. Acetone/Toluene Rinse		Lab Sampling:	
Site: BASF Geismar, LA		<input type="checkbox"/> 2 days		EPA M23 - XAD		EPA M23 - BH imp. Acetone/Toluene Rinse		Job / SDG No.:	
P O #		<input type="checkbox"/> 1 day		EPA M23 - XAD		EPA M23 - BH imp. Acetone/Toluene Rinse		Sample Specific Notes:	
Sample Identification		Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix	# of Cont.			
M23 - NO. 3 BOILER - Cont #1 - Run 3	5/8/24	1500	G	A	1	PAH / PCB			
M23 - NO. 3 BOILER - Cont #2 - Run 3	5/8/24	1500	G	A	1	"			
M23 - NO. 3 BOILER - XAD - Run 3	5/8/24	1500	G	A	1	"			
M23 - NO. 3 BOILER - Cont #3 - Run 3	5/8/24	1500	G	A	1	"			
M23 - NO. 3 BOILER - Cont #4 - Run 3	5/8/24	1500	G	A	1	"			
M23 - NO. 3 BOILER - Cont #1 - Run 4	5/8/24	1900	G	A	1	"			
M23 - NO. 3 BOILER - Cont #2 - Run 4	5/8/24	1900	G	A	1	"			
M23 - NO. 3 BOILER - XAD - Run 4	5/8/24	1900	G	A	1	"			
M23 - NO. 3 BOILER - Cont #3 - Run 4	5/8/24	1900	G	A	1	"			
M23 - NO. 3 BOILER - Cont #4 - Run 4	5/8/24	1900	G	A	1	"			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
Possible Hazard Identification:									
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
Special Instructions/QC Requirements & Comments: Reduced Reporting, Combined FH/BH Analysis									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No							Cooler Temp. (°C): Obs'd: _____		
Relinquished by: J. LaCroix							Company: Alliance		
Relinquished by: J. LaCroix							Date/Time: 5/10/24 1900		
Relinquished by: J. LaCroix							Company: BASF		
Relinquished by: J. LaCroix							Date/Time: 5/11/24 0500		
Relinquished by: J. LaCroix							Company: BASF		
Relinquished by: J. LaCroix							Date/Time: 5/11/24		

Knoxville, TN 37921-5947
phone 865.291.3000 fax 865.584.4315

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: ☐

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Jason LaCroix		Site Contact:		Date:		COC No:	
Alliance Source Testing		AST Office: BTR		Lab Contact:		Carrier:		4 of 5 COCs	
Address 6110 Copperhead Road		Analysis Turnaround Time		EPA M23 - Filter		EPA M23 - FH/BH Acetone/Toluene Rinse		EPA M23 - DI H2O Imp. Contents	
City/State/Zip Geismar, LA, 70734		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		EPA M23 - BH Imp.		Acetone/Toluene Rinse		Sampler:	
256-351-0121 Phone		TAT if different from Below		G		EPA M23 - XAD		For Lab Use Only:	
BTRreports@stacktest.com		2 weeks		G		EPA M23 - XAD		Walk-in Client:	
Project Name: BASF 24-2573		1 week		G		EPA M23 - XAD		Lab Sampling:	
Site: BASF Geismar, LA		2 days		G		EPA M23 - XAD		Job / SDG No.:	
P O #		1 day		G		EPA M23 - XAD		Sample Specific Notes:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.			
M23 - NO. 3 BOILER - Cont #1 - Run 7	5/10/24	1345	G	A	1		PAH / PCB		
M23 - NO. 3 BOILER - Cont #2 - Run 7	5/10/24	1345	G	A	1		"		
M23 - NO. 3 BOILER - XAD - Run 7	5/10/24	1345	G	A	1		"		
M23 - NO. 3 BOILER - Cont #3 - Run 7	5/10/24	1345	G	A	2		"		
M23 - NO. 3 BOILER - Cont #4 - Run 7	5/10/24	1345	G	A	1		"		
M23 - NO. 3 BOILER - Cont #1 - Run FB	5/15/24	1300	G	A	1		"		
M23 - NO. 3 BOILER - Cont #2 - Run FB	5/15/24	1300	G	A	1		"		
M23 - NO. 3 BOILER - XAD - Run FB	5/16/24	1300	G	A	1		"		
M23 - NO. 3 BOILER - Cont #3 - Run FB	5/16/24	1300	G	A	1		"		
M23 - NO. 3 BOILER - Cont #4 - Run FB	5/16/24	1300	G	A	1		"		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
Possible Hazard Identification:							Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <input type="checkbox"/> Months		
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							Therm ID No.:		
<input type="checkbox"/> Non-Hazard <input checked="" type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Polson B <input type="checkbox"/> Unknown							Date/Time: 5/10/24 1900		
Special Instructions/QC Requirements & Comments: Reduced Reporting, Combined FH/BH Analysis							Company: Alliance		
Custody Seal No.:							Date/Time: 5/10/24 1900		
Relinquished by: J. LeGros							Company: Alliance		
Relinquished by: T. LeGros							Date/Time: 5/10/24 1900		
Relinquished by:							Company: Alliance		

EUROFINS KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	Observation Received 5/11/24
2. Were ambient air containers received intact?			/	<input type="checkbox"/> Checked in lab	0800 should be, 5/12/24 0800
3. The coolers/containers custody seal if present, is it intact?			/	<input type="checkbox"/> Yes <input type="checkbox"/> NA	AND Rechecked
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID: 5676 Correction factor: +0.1°C	/			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	Received at RT 3.6 / 3.7°C CT RT 4.3 / 4.4°C CT RT 3.1 / 3.2°C CT
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	5-12-24
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	Hand delivered
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	10
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	
10. Was the sampler identified on the COC?		/		<input checked="" type="checkbox"/> Sampler Not Listed on COC	Labeling Verified by: _____ Date: _____
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	pH test strip lot number: _____
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	Box 16A: pH Preservation
16. Were samples received with correct chemical preservative (excluding Encore)?			/	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Preservative: _____ Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____
17. Were VOA samples received without headspace?			/	<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	Box 18A: Residual Chlorine
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____			/		
19. For 1613B water samples is pH<9?			/	<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			/	<input type="checkbox"/> Project missing info	

Project #: 14007031 PM Instructions: _____

Sample Receiving Associate: Chh Panan Date: 5-13-24

Appendix F:

ANALYTICAL DATA ASSESSMENT FORMS

ASTM Method D1475 - Density

Laboratory:	Eurofins Knoxville
Report ID:	140-36688-1

Sample Holding Time Check

[illegible]

**Note: QAPP ≤ 180 day holding time objective.

ASTM Method D1475 - Density

Laboratory:	Eurofins Knoxville
Report ID:	140-36688-1

Evaluation of Precision - Field Duplicates (per CPT)

[illegible]

** Note: QAPP $\leq 20\%$ RPD objective.

ASTM Method D1475 - Density

Laboratory:	Eurofins Knoxville
Report ID:	140-36688-1

Evaluation of Precision - Sample Duplicate (per batch)

Batch No.:	87058			
Page No.:	19			
Parameter	Original	Duplicate	RPD	Lab RPD
Density	0.989	0.9899	✓ 0.09%	✓ 0.07%
Batch No.:				
Page No.:				
Parameter	Original	Duplicate	RPD	Lab RPD
Density				
Batch No.:				
Page No.:				
Parameter	Original	Duplicate	RPD	Lab RPD
Density				

** Note: Done for internal laboratory purposes only. ≤10% RPD

Evaluation of Accuracy - LCS (per batch)

Batch No.:	87058			
Page No.:	19			
Parameter	LCS			
	Spiked	Measured	Recovery	Lab Recovery
Density	0.997	0.9965	100%	100%
Batch No.:				
Page No.:				
Parameter	LCS			
	Spiked	Measured	Recovery	Lab Recovery
Density				
Batch No.:				
Page No.:				
Parameter	LCS			
	Spiked	Measured	Recovery	Lab Recovery
Density				

**Note: QAPP 99-101% recovery objective.

ASTM Method D1475 - Density

Laboratory:	Eurofins Knoxville
Report ID:	140-36688-1

Review of Analytical Quality Control Checks

Quality Control Sample	Criteria	Met?*	Page No.
Initial calibration	$\leq 0.5\%$ RSD	Yes	54, 55

* Answer as "Yes" or "No". If not met, complete table(s) below.

Deviations on RSDs

Calibration standard	Relative Standard Deviation	ICV/CCV Batch	Samples Affected

ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-36688-1

Sample Holding Time Check

[illegible]

****Note: QAPP ≤ 180 day holding time objective.**

ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-36688-1

Evaluation of Precision - Field Duplicates (per CPT)

[illegible]

** Note: QAPP $\leq 20\%$ RPD objective.

ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-36688-1

Evaluation of Precision - LCS/LCSD (per batch)

Batch No.:	86729			
Page No.:	19			
Parameter	LCS	LCSD	RPD	Lab RPD
HHV	20370	20450	✓ 0%	✓ 0%
Batch No.:	87147			
Page No.:	19			
Parameter	LCS	LCSD	RPD	Lab RPD
HHV	20340	20420	✓ 0%	✓ 0%
Batch No.:				
Page No.:				
Parameter	LCS	LCSD	RPD	Lab RPD
HHV				

** Note: QAPP ≤2% RPD objective.

Evaluation of Precision - Sample Duplicate (per batch)

Batch No.:	86729			
Page No.:	19			
Parameter	Original	Duplicate	RPD	Lab RPD
HHV	5060	4881	✓ 4%	✓ 4%
Batch No.:				
Page No.:				
Parameter	Original	Duplicate	RPD	Lab RPD
HHV				
Batch No.:				
Page No.:				
Parameter	Original	Duplicate	RPD	Lab RPD
HHV				

** Note: Done for internal laboratory purposes only. ≤10% RPD objective.

ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-36688-1

Evaluation of Accuracy - LCS/LCSD (per batch)

Batch No.:	86729							
Page No.:	19							
Parameter	LCS				LCSD			
	Spiked	Measured	Recovery	Lab Recovery	Spiked	Measured	Recovery	Lab Recovery
HHV	20600	20370	99%	99%	20600	20450	99%	99%
Batch No.:	87147							
Page No.:	19							
Parameter	LCS				LCSD			
	Spiked	Measured	Recovery	Lab Recovery	Spiked	Measured	Recovery	Lab Recovery
HHV	20600	20340	99%	99%	20600	20420	99%	99%
Batch No.:								
Page No.:								
Parameter	LCS				LCSD			
	Spiked	Measured	Recovery	Lab Recovery	Spiked	Measured	Recovery	Lab Recovery
HHV								

**Note: QAPP 98-102% recovery objective.

ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-36688-1

Review of Analytical Quality Control Checks

Quality Control Sample	Criteria	Met?*	Page No.
Initial calibration	$\leq 1\%$ RSD	Yes	57, 68, 80
Calibration checks	$\pm 1\%$ difference from initial calibration	Yes	57, 68, 80

* Answer as "Yes" or "No". If not met, complete table(s) below.

Deviations on RSDs

Calibration standard	Relative Standard Deviation	ICV/CCV Batch	Samples Affected

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-36689-1

Sample Holding Time Check

Lab Sample No.	Sample ID	Chain of Custody Page No.	Analytes	Sample Results Page No.	Collected (mm/dd/yyyy)	Extracted (mm/dd/yyyy)	Duration (days)	Analyzed (mm/dd/yyyy)	Duration (days)
140-36689-1	M23-NO.3 BOILER-RUN 1 COMBINED	3071	PCB	12	5/7/2024	5/31/2024	✓ 24	6/11/2024	✓ 11
			PAH	13	5/7/2024	5/31/2024	✓ 24	6/21/2024	✓ 21
140-36689-2	M23-NO.3 BOILER-RUN 2 COMBINED	3071	PCB	15	5/7/2024	5/31/2024	✓ 24	6/11/2024	✓ 11
			PAH	16	5/7/2024	5/31/2024	✓ 24	6/21/2024	✓ 21
140-36689-3	M23-NO.3 BOILER-RUN 3 COMBINED	3072	PCB	18	5/8/2024	5/31/2024	✓ 23	6/11/2024	✓ 11
			PAH	19	5/8/2024	5/31/2024	✓ 23	6/21/2024	✓ 21
140-36689-4	M23-NO.3 BOILER-RUN 4 COMBINED	3072	PCB	21	5/8/2024	5/31/2024	✓ 23	6/11/2024	✓ 11
			PAH	22	5/8/2024	5/31/2024	✓ 23	6/21/2024	✓ 21
140-36689-5	M23-NO.3 BOILER-RUN 5 COMBINED	3073	PCB	24	5/9/2024	5/31/2024	✓ 22	6/11/2024	✓ 11
			PAH	25	5/9/2024	5/31/2024	✓ 22	6/25/2024	✓ 25
140-36689-6	M23-NO.3 BOILER-RUN 6 COMBINED	3073	PCB	27	5/9/2024	5/31/2024	✓ 22	6/12/2024	✓ 12
			PAH	28	5/9/2024	5/31/2024	✓ 22	6/25/2024	✓ 25
140-36689-7	M23-NO.3 BOILER-RUN 7 COMBINED	3074	PCB	30	5/10/2024	5/31/2024	✓ 21	6/12/2024	✓ 12
			PAH	31	5/10/2024	5/31/2024	✓ 21	6/25/2024	✓ 25
140-36689-8	M23-NO.3 BOILER-RUN FB COMBINED	3074	PCB	33	5/8/2024	5/31/2024	✓ 23	6/12/2024	✓ 12
			PAH	34	5/8/2024	5/31/2024	✓ 23	6/25/2024	✓ 25
140-36689-14	M23 MEDIA CHECK A-2171 FILTER,A-2170 XAD COMBINED		PCB	36	5/7/2024	5/31/2024	✓ 24	6/12/2024	✓ 12
			PAH	37	5/7/2024	5/31/2024	✓ 24	6/25/2024	✓ 25

**Note: QAPP ≤30 day holding time to extraction, ≤40 day holding time from extraction to analysis objective. Holding time from extraction may be up to one year if samples are maintained below -10 C.

Were extracted samples maintained below -10 C?	Yes
--	-----

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-36689-1

Evaluation of Contamination Effects

Quality Control Sample	Criteria	Met? *	Page
Method blank	Per batch	Yes	46, 49, 50
	< RL	No	46, 49, 50
Reagent blank **	Per CPT	Yes	3075
	< RL	Archived	- - -
Field proof blank	Per CPT	Yes	33-35
	< RL	No	33-35

* Answer as "Yes" or "No". If not met, complete table(s) below.

** Typically only analyzed if field proof blank contamination is present.

Detail on Frequency Deviations

Quality Control Sample	Analysis Frequency

Detail on Contamination Effects

QC Sample	Analyte	Result	RL
Method blank	Phenanthrene	16.87	6.00
Field proof blank	PCB-44	2.0	0.900
	Acenaphthene	68.9	30.0
	Acenaphthylene	14.7	3.00
	Anthracene	47.7	30.0
	Fluoranthene	31.8	6.00
	Fluorene	136	30.0
	Naphthalene	145	75.0
	2-Methylnaphthalene	123	75.0
	Phenanthrene	341	6.00
	Pyrene	27.4	6.00

Evaluation of Precision - LCS/LCSD (One set per batch)

Batch No.:	87502		Batch No.:	87502	
Page No.:	50-52		Page No.:	47-48, 2929, 2990	
Analyte	RPD	RPD	Analyte	RPD	Lab RPD
Acenaphthylene	✓ 2	✓ 2	PCB-8	✓ 2	
Acenaphthene	✓ 4	✓ 4	PCB-18	✓ 2	
Anthracene	✓ 2	✓ 2	PCB-28	✓ 2	
Benz[a]anthracene	✓ 2	✓ 2	PCB-44	✓ 3	
Benzo[b]fluoranthene	✓ 1	✓ 1	PCB-52	✓ 2	
Benzo[k]fluoranthene	✓ 3	✓ 3	PCB-66	✓ 1	
Benzo[g,h,i]perylene	✓ 1	✓ 1	PCB-77	✓ 1	✓ 1
Benzo[a]pyrene	✓ 6	✓ 6	PCB-81	✓ 1	✓ 1
Benzo[e]pyrene	✓ 0	✓ 1	PCB-101	✓ 1	
Chrysene	✓ 0	✓ 0	PCB-105	✓ 4	✓ 4
Dibenz[a,h]anthracene	✓ 0	✓ 0	PCB-114	✓ 3	✓ 3
Fluoranthene	✓ 2	✓ 2	PCB-118	✓ 2	✓ 2
Fluorene	✓ 3	✓ 3	PCB-123	✓ 2	✓ 2
Indeno[1,2,3-cd]pyrene	✓ 2	✓ 2	PCB-126	✓ 1	✓ 1
2-Methylnaphthalene	✓ 3	✓ 3	PCB-128	✓ 3	
Naphthalene	✓ 4	✓ 4	PCB-138	✓ 2	
Perylene	✓ 0	✓ 0	PCB-153	✓ 1	
Phenanthrene	✓ 0	✓ 0	PCB-156	✓ 0	✓ 0
Pyrene	✓ 2	✓ 2	PCB-157	✓ 0	✓ 0
			PCB-167	✓ 3	✓ 3
			PCB-169	✓ 1	✓ 1
			PCB-170	✓ 5	
			PCB-180	✓ 2	
			PCB-187	✓ 3	
			PCB-189	✓ 2	✓ 2
			PCB-195	✓ 2	
			PCB-206	✓ 2	✓ 2
			PCB-209	✓ 1	✓ 1

**Note: QAPP ≤25% RPD objective for PAHs, ≤50% RPD objective for PCBs.

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-36689-1

Evaluation of Accuracy - LCS (Two per batch)

Batch No.:					87502, 87921				
Page No.:					47-48, 50-52, 2929, 2990				
LCS					LCSD				
Analyte	Spiked	Measured	Recovery	Lab Recovery	Analyte	Spiked	Measured	Recovery	Lab Recovery
Acenaphthylene	150	119.0	79%	79%	Acenaphthylene	150	121.0	81%	81%
Acenaphthene	150	141.4	94%	94%	Acenaphthene	150	147.9	99%	99%
Anthracene	150	116.5	78%	78%	Anthracene	150	118.4	79%	79%
Benz[a]anthracene	150	151.7	101%	101%	Benz[a]anthracene	150	148.8	99%	99%
Benzo[b]fluoranthene	150	141.8	95%	95%	Benzo[b]fluoranthene	150	139.7	93%	93%
Benzo[k]fluoranthene	150	142.5	95%	95%	Benzo[k]fluoranthene	150	138.7	92%	92%
Benzo[g,h,i]perylene	150	134.7	90%	90%	Benzo[g,h,i]perylene	150	133.7	89%	89%
Benzo[a]pyrene	150	121.4	81%	81%	Benzo[a]pyrene	150	129.1	86%	86%
Benzo[e]pyrene	150	144.0	96%	96%	Benzo[e]pyrene	150	144.7	96%	96%
Chrysene	150	153.2	102%	102%	Chrysene	150	153.4	102%	102%
Dibenz[a,h]anthracene	150	139.3	93%	93%	Dibenz[a,h]anthracene	150	139.1	93%	93%
Fluoranthene	150	141.8	95%	95%	Fluoranthene	150	139.6	93%	93%
Fluorene	150	147.0	98%	98%	Fluorene	150	142.9	95%	95%
Indeno[1,2,3-cd]pyrene	150	139.2	93%	93%	Indeno[1,2,3-cd]pyrene	150	137.0	91%	91%
2-Methylnaphthalene	150	167.9	112%	112%	2-Methylnaphthalene	150	172.6	115%	115%
Naphthalene	150	185.4	124%	124%	Naphthalene	150	192.8	129%	129%
Perylene	150	133.1	89%	89%	Perylene	150	133.5	89%	89%
Phenanthrene	150	152.0	101%	101%	Phenanthrene	150	152.3	102%	102%
Pyrene	150	143.4	96%	96%	Pyrene	150	141.2	94%	94%
PCB-8	15	15.23	102%		PCB-8	15	14.87	99%	
PCB-18	30	30.62	102%		PCB-18	30	30.11	100%	
PCB-28	30	27.95	93%		PCB-28	30	27.30	91%	
PCB-44	45	40.91	91%		PCB-44	45	39.82	88%	
PCB-52	15	14.30	95%		PCB-52	15	14.01	93%	
PCB-66	15	14.94	100%		PCB-66	15	14.82	99%	
PCB-77	15	14.11	94%	94%	PCB-77	15	14.19	95%	95%
PCB-81	15	14.07	94%	94%	PCB-81	15	14.21	95%	95%
PCB-101	45	45.20	100%		PCB-101	45	44.87	100%	
PCB-105	15	14.09	94%	94%	PCB-105	15	13.57	90%	90%
PCB-114	15	15.31	102%	102%	PCB-114	15	14.79	99%	99%
PCB-118	15	13.95	93%	93%	PCB-118	15	13.65	91%	91%
PCB-123	15	14.23	95%	95%	PCB-123	15	14.51	97%	97%
PCB-126	15	17.32	115%	115%	PCB-126	15	17.09	114%	114%
PCB-128	30	31.02	103%		PCB-128	30	30.08	100%	
PCB-138	60	56.76	95%		PCB-138	60	55.38	92%	
PCB-153	30	28.47	95%		PCB-153	30	28.17	94%	

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

LCS					LCSD				
Analyte	Spiked	Measured	Recovery	Lab Recovery	Analyte	Spiked	Measured	Recovery	Lab Recovery
PCB-156	30	28.69	96%	96%	PCB-156	30	28.65	96%	96%
PCB-157	30	28.69	96%	96%	PCB-157	30	28.65	96%	96%
PCB-167	15	15.15	101%	101%	PCB-167	15	14.77	98%	98%
PCB-169	15	16.35	109%	109%	PCB-169	15	16.20	108%	108%
PCB-170	15	14.27	95%		PCB-170	15	13.56	90%	
PCB-180	30	30.81	103%		PCB-180	30	30.05	100%	
PCB-187	15	15.64	104%		PCB-187	15	15.24	102%	
PCB-189	15	15.62	104%	104%	PCB-189	15	15.26	102%	102%
PCB-195	15	15.38	103%		PCB-195	15	15.09	101%	
PCB-206	15	13.81	92%	92%	PCB-206	15	14.10	94%	94%
PCB-209	15	13.62	91%	91%	PCB-209	15	13.81	92%	92%

** Note: QAPP 60-140% recovery objective for PAHs, 60-135% recovery objective for PCBs.

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-36689-1

Evaluation of Accuracy - Extraction Standards (Isotope Dilution)

Sample No.	Page No.	Extraction Standard (Isotope Dilution) Recovery											
		C6N	C62MN	C6Acy	C6Ace	C6Fle	C6Fla	C3Pyr	C6BaA	C6Chr	C6BbF	C6BkF	C4BeP
		20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130
140-36689-1	41-45	53	59	82	76	82	85	81	76	75	84	84	76
140-36689-2	41-45	39	48	72	67	76	87	79	83	79	92	86	76
140-36689-3	41-45	43	47	69	66	77	80	71	71	71	87	89	77
140-36689-4	41-45	50	56	78	76	89	87	77	79	77	90	86	75
140-36689-5	41-45	50	51	76	67	79	83	71	73	73	85	90	76
140-36689-6	41-45	46	58	77	74	90	78	66	58	62	81	82	68
140-36689-7	41-45	50	58	73	73	87	80	71	67	66	89	91	77
140-36689-8	41-45	53	57	71	67	80	91	88	61	58	75	86	81
140-36689-14	41-45	76	83	98	93	98	89	87	65	66	82	86	81

C6N = 13C6-Naphthalene

C62MN = 13C6-2-Methylnaphthalene

C6Acy = 13C6-Acenaphthylene

C6Ace = 13C6-Acenaphthene

C6Fle = 13C6-Fluorene

C6Fla = 13C6-Fluoranthrene

C3Pyr = 13C3-Pyrene

C6BaA = 13C6-Benzo(a)anthracene

C6Chr = 13C6-Chrysene

C6BbF = 13C6-Benzo(b)fluoranthene

C6BkF = 13C6-Benzo(k)fluoranthene

C4BeP = 13C4-Benzo(e)pyrene

Sample No.	Page No.	Extraction Standard (Isotope Dilution) Recovery											
		C4BaP	PRY	IND	DBA	BghiP	AN	C6Ph	PCB1L	PCB3L	PCB4L	PCB15L	PCB19L
		20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-145	20-145	20-145	20-145	20-145
140-36689-1	41-45	86	89	86	81	84	101	85	55	62	64	42	69
140-36689-2	41-45	85	72	91	96	86	114	97	57	65	68	37	73
140-36689-3	41-45	84	77	88	92	89	105	91	55	61	65	36	69
140-36689-4	41-45	81	72	96	88	87	118	97	48	56	59	34	63
140-36689-5	41-45	83	74	72	94	75	75	69	52	57	63	33	65
140-36689-6	41-45	71	64	75	80	74	101	94	55	60	65	38	67
140-36689-7	41-45	82	78	93	91	84	108	92	56	61	64	38	68
140-36689-8	41-45	91	96	82	88	88	109	95	49	53	57	32	57
140-36689-14	41-45	87	95	93	95	95	108	94	66	66	70	71	65

C4BaP = 13C4-Benzo(a)pyrene

PRY = Perylene-d12

IND = 13C6-Indeno(1,2,3-cd)pyrene

DBA = 13C6-Dibenz(a,h)anthracene

BghiP = 13C12-Benzo(ghi)perylene

AN = 13C6-Anthracene

C6Ph = 13C6-Phenanthrene

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Sample No.	Page No.	Extraction Standard (Isotope Dilution) Recovery											
		PCB37L	PCB54L	PCB77L	PCB81L	PCB104L	PCB105L	PCB114L	PCB118L	PCB123L	PCB126L	PCB155L	PCB156L
		20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145
140-36689-1	41-45	80	69	83	81	88	92	92	90	92	92	90	89
140-36689-2	41-45	80	75	84	83	92	91	91	92	94	92	93	87
140-36689-3	41-45	75	68	77	76	92	90	90	91	90	88	94	87
140-36689-4	41-45	74	69	77	76	89	90	90	91	91	89	90	86
140-36689-5	41-45	73	66	74	75	90	90	90	89	89	89	90	87
140-36689-6	41-45	81	70	86	85	93	94	93	93	94	92	96	92
140-36689-7	41-45	81	71	84	84	95	96	96	95	96	97	98	92
140-36689-8	41-45	73	66	76	74	86	88	87	86	88	87	89	84
140-36689-14	41-45	74	71	81	79	70	83	79	80	79	86	80	85

Sample No.	Page No.	Extraction Standard (Isotope Dilution) Recovery										
		PCB157L	PCB167L	PCB169L	PCB170L	PCB188L	PCB189L	PCB202L	PCB205L	PCB206L	PCB208L	PCB209L
		20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145
140-36689-1	41-45	89	86	87	92	91	90	92	89	96	98	105
140-36689-2	41-45	87	86	83	93	94	89	91	90	100	100	108
140-36689-3	41-45	87	85	83	92	93	85	94	89	99	101	110
140-36689-4	41-45	86	85	84	92	91	82	91	89	99	97	110
140-36689-5	41-45	87	83	85	89	91	85	91	89	99	99	110
140-36689-6	41-45	92	92	91	96	93	97	94	93	98	102	108
140-36689-7	41-45	92	89	91	96	94	97	94	93	99	103	109
140-36689-8	41-45	84	82	86	89	87	87	88	85	90	93	98
140-36689-14	41-45	85	84	87	88	78	90	84	87	94	93	104

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-36689-1

Evaluation of Accuracy - Sampling Standards (Surrogate)

[illegible]

13C6BCF = 13C6-Benzo(c)fluorene

13C12BJF = 13C12-Benzo(j)fluoranthene

ANC = Anthracene-d10

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-36689-1

Review of Analytical Quality Control Checks

Quality Control Sample	Criteria	Met? *	Page No.
Initial calibration	Mean RRF \pm 10% RSD for unlabeled	Yes	376-377, 1582-1595
	Mean RRF \pm 20% RSD for labeled	Yes	377-378, 1595-1597
Calibration verification	Every 12 hours	Yes	890, 893, 896, 899, 3053, 3056, 3058
	RF \pm 25% from ICAL RRF for unlabeled	Yes	671, 702, 734, 776, 2539-2545, 2645-2651, 2752-2758
	RF \pm 25% from ICAL RRF for pre-sampling adsorbent standard	Yes	
	RF \pm 25% from ICAL RRF for pre-extraction filter standard	Yes	
	RF \pm 30% from ICAL RRF for pre-extraction standard and alternative standard	Yes	
Retention time window and column perf. Check	Beginning of each 12-hour analytical shift	Yes	890, 893, 896, 899, 3053, 3056, 3058
	Retention time Δ < 15 sec	Yes	680-682, 711-713, 743-746, 785-787, 2573-2590, 2679-2696, 2786-2800
	Valley \leq 50% (PAHs), 60% (benzo[b]fluoranthene and benzo[k]fluoranthene), 40% (PCBs)	Yes	672-677, 703-708, 735-740, 777-782, 2449, 2450, 2452, 2453, 2455, 2456

* Answer as "Yes" or "No". If not met, complete table(s) below.

Deviations on Initial Calibrations

Sample ID	Calibration standard	RSD	Criteria

Deviations on Calibration Verifications

Sample ID	Calibration standard	RPD	Criteria

USEPA Method 25A - Hydrocarbons

Test Firm:	Alliance Technical Group, LLC
Report ID:	AST-2024-2573

Calibration Error Test

Date	05/07/2024				05/08/2024				05/09/2024				05/10/2024			
Runs	1-2				3-4				5-6				7			
Span (ppmv)	25				25				25				25			
Gas Range	Zero	Low	Mid	High	Zero	Low	Mid	High	Zero	Low	Mid	High	Zero	Low	Mid	High
Actual calibration value (ppmv)	0.00	7.50	12.50	21.50	0.00	7.50	12.50	21.50	0.00	7.50	12.50	21.50	0.00	7.50	12.50	21.50
Analyzer calibration response (ppmv)	0.00	7.39	12.54	21.59	0.00	7.37	12.53	21.56	0.01	7.43	12.53	21.51	0.00	7.38	12.55	21.48
Difference (ppmv)	0.00	-0.11	0.04	0.09	0.00	-0.13	0.03	0.06	0.01	-0.07	0.03	0.01	0.00	-0.12	0.05	-0.02
Calibration error	---	✓-1.89%	✓-0.10%	---	---	✓-2.01%	✓-0.04%	---	---	✓-1.07%	✓0.16%	---	---	✓-1.51%	✓0.49%	---
Tester reported calibration error	---	✓-1.89%	✓-0.10%	---	---	✓-2.01%	✓-0.04%	---	---	✓-1.07%	✓0.16%	---	---	✓-1.51%	✓0.49%	---

USEPA Method 25A - Hydrocarbons

Test Firm:	Alliance Technical Group, LLC
Report ID:	AST-2024-2573

Drift Test

Run No:	1							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.54	12.54	✓ 0.00%	---	0.00	0.08	✓ 0.32%	---
Hour 2	12.54	12.58	✓ 0.16%	---	0.08	0.00	✓ -0.32%	---
Hour 3	12.58	12.59	✓ 0.04%	---	0.00	0.20	✓ 0.80%	---
Hour 4	12.59	12.51	✓ -0.32%	---	0.20	0.00	✓ -0.80%	---
Total Run	12.54	12.51	✓ -0.12%	✓ -0.12%	0.00	0.00	✓ 0.00%	✓ 0.00%
Run No:	2							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.51	12.55	✓ 0.16%	---	0.00	0.00	✓ 0.00%	---
Hour 2	12.55	12.47	✓ -0.32%	---	0.00	0.00	✓ 0.00%	---
Hour 3	12.47	12.30	✓ -0.68%	---	0.00	0.00	✓ 0.00%	---
Hour 4	12.30	12.27	✓ -0.12%	---	0.00	0.00	✓ 0.00%	---
Total Run	12.51	12.27	✓ -0.96%	✓ -0.96%	0.00	0.00	✓ 0.00%	✓ 0.00%
Run No:	3							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.53	12.48	✓ -0.20%	---	0.00	0.00	✓ 0.00%	---
Hour 2	12.48	12.55	✓ 0.28%	---	0.00	0.00	✓ 0.00%	---
Hour 3	12.55	12.55	✓ 0.00%	---	0.00	0.04	✓ 0.16%	---
Hour 4	12.55	12.54	✓ -0.04%	---	0.04	0.07	✓ 0.12%	---
Total Run	12.53	12.54	✓ 0.04%	✓ 0.04%	0.00	0.07	✓ 0.28%	✓ 0.28%
Run No:	4							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.54	12.61	✓ 0.28%	---	0.07	0.07	✓ 0.00%	---
Hour 2	12.61	12.58	✓ -0.12%	---	0.07	0.15	✓ 0.32%	---
Hour 3	12.58	12.55	✓ -0.12%	---	0.15	0.07	✓ -0.32%	---
Hour 4	12.55	12.37	✓ -0.72%	---	0.07	0.00	✓ -0.28%	---
Total Run	12.54	12.37	✓ -0.68%	✓ -0.68%	0.07	0.00	✓ -0.28%	✓ -0.28%

USEPA Method 25A - Hydrocarbons

Run No:	5							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.53	12.38	✓ -0.60%	---	0.01	0.00	✓ -0.04%	---
Hour 2	12.38	12.38	✓ 0.00%	---	0.00	0.00	✓ 0.00%	---
Hour 3	12.38	12.36	✓ -0.08%	---	0.00	0.52	✓ 2.08%	---
Hour 4	12.36	12.43	✓ 0.28%	---	0.52	0.00	✓ -2.08%	---
Total Run	12.53	12.43	✓ -0.40%	✓ -0.40%	0.01	0.00	✓ -0.04%	✓ -0.04%
Run No:	6							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.43	12.47	✓ 0.16%	---	0.00	0.13	✓ 0.52%	---
Hour 2	12.47	12.47	✓ 0.00%	---	0.13	0.09	✓ -0.16%	---
Hour 3	12.47	12.41	✓ -0.24%	---	0.09	0.07	✓ -0.08%	---
Hour 4	12.41	12.33	✓ -0.32%	---	0.07	0.00	✓ -0.28%	---
Total Run	12.43	12.33	✓ -0.40%	✓ -0.40%	0.00	0.00	✓ 0.00%	✓ 0.00%
Run No:	7							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.55	12.25	✓ -1.20%	---	0.00	0.00	✓ 0.00%	---
Hour 2	12.25	12.38	✓ 0.52%	---	0.00	0.00	✓ 0.00%	---
Hour 3	12.38	12.55	✓ 0.68%	---	0.00	0.13	✓ 0.52%	---
Hour 4	12.55	12.63	✓ 0.32%	---	0.13	0.04	✓ -0.36%	---
Total Run	12.55	12.63	✓ 0.32%	✓ 0.32%	0.00	0.04	✓ 0.16%	✓ 0.16%

** Note: Allowable calibration drift is 3 percent of calibration span.