April 30, 2021
Langan Project #002529101

Sent via Email to: Tran.Tran@epa.gov

Ms. Tran Tran
Project Manager
U.S. EPA, Region III
1650 Arch Street
Mail Code: 3LC30
Philadelphia, PA 19103-2029

RE: 1st Quarter 2021 Progress Report
Former Thomas & Betts/Ansley Facility
1501 West Park Avenue, Perkasie, Bucks County, PA
EPA ID No. PAD002498699

Dear Ms. Tran:

On behalf of ABB Installation Products (ABB IP, formerly known as Thomas & Betts Corporation), Langan Engineering and Environmental Services, Inc. (Langan) is providing the United States Environmental Protection Agency (USEPA) with this Quarterly Progress Report for the Former Thomas and Betts/Ansley (T&B) Facility in Perkasie, PA ('Site'). It summarizes activities that were completed in the First Quarter of 2021 and provides a projection of activities that are expected to take place during the Second Quarter of 2021.

ACTIVITIES COMPLETED OR INITIATED

The following activities were completed or initiated during the reporting period, between January 1, 2021 and March 31, 2021:

Groundwater Extraction/Treatment System Operations

- IES Engineers (IES) performs on-going operation and maintenance of the groundwater extraction and treatment system for ABB IP. The groundwater system operates under National Pollutant Discharge Elimination System (NPDES) Permit No. PA 0040321, under the jurisdiction of the Pennsylvania Department of Environmental Protection (PADEP). In August 2020, IES submitted permit modification applications to the PADEP and the Delaware River Basin Commission (DRBC) to update the NPDES and DRBC permits to reflect the pumping well change (shutdown of MW-5 and initiation of pumping at MW-6s) completed in the summer of 2020. On February 9, 2021, PADEP issued the final NPDES permit amendment to ABB IP. The effective date of the five-year NPDES permit is March 1, 2021. A copy of the final NPDES permit is included as Attachment A. On March 31, 2021, the DRBC issued the

final updated permit (No. P-1991-061-4) for groundwater withdrawal as part of the remediation system. The permit expiration date is March 31, 2031. A copy of the final DRBC permit is included as Attachment A.

Pumping wells MW-4 and MW-6s operated continuously during the First Quarter of 2021. From January 1 through March 31, 2021, the average pumping rates for onsite extraction MW-4 and MW-6s were 2.92 gallons per minute (gpm) and 2.96 gpm, respectively.

Since January 1, 2021, IES has collected three sets of influent and effluent samples (on January 27th, February 26th and March 10th). Trichloroethene (TCE) concentrations detected in the combined influent samples during this period ranged from 1,200 to 1,700 micrograms per liter (µg/L). TCE concentrations detected in the effluent samples were non-detect (ND) for all samples.

Quarterly Monitoring Well Gauging and Sampling

- On January 7, 2021, Langan completed groundwater gauging of monitoring wells and collected groundwater samples (parent and duplicate samples) from monitoring well MW-7s at the Site. The quarterly gauging and sampling event was completed in accordance with long-term monitoring measures stipulated in the USEPA-approved December 2020 Post-Remediation Care Plan (PRCP). MW-7s is located approximately 50 feet northwest of the northern corner of the Site and outside the Technical Impracticability (TI) Zone. Prior to the January 2021 sampling event, the TCE concentrations detected at this location was above the USEPA Maximum Contaminant Level (MCL) of 5 µg/L; however, the extent of TCE in groundwater was delineated vertically (by MW-7i) and in the northward down-gradient direction (at MW-8s and MW-8i). ABB IP and USEPA agreed to monitor MW-7s on a more frequent (i.e., quarterly) basis than the other perimeter monitoring wells, which are monitored annually. The more frequent monitoring of MW7s is planned for at least the first year after pumping reconfiguration that occurred in June 2020. There is a plan to further reduce the sampling frequency thereafter, if supported by the data and approved by USEPA.

  On January 7, 2021, prior to groundwater sampling, depth-to-water (DTW) was measured in each of the Site monitoring wells, which monitor groundwater in shallow and intermediate depth bedrock (see Table 1). DTW measurements were converted to elevation above mean sea level using surveyed reference-point elevations (North American Vertical Datum of 1988 [NAVD-88]), as presented in Table 1. The groundwater elevation contours are depicted on Figures 1 (shallow bedrock zone) and 2 (intermediate bedrock zone). Note that the groundwater extraction system was active during the gauging and sampling event (i.e., recovery wells MW-4 and MW-6s were pumping). Based on groundwater elevation data, it is evident that groundwater capture extends off-Site to the northwest in both the shallow and intermediate bedrock zones, as shown on Figures 1 and 2. The inferred capture zones using the January 2021 elevation data are similar to those calculated prior to the cessation of pumping at MW-5 and initiation of pumping at MW-6s.

  Groundwater from MW-7s was purged and sampled using the low-flow/minimal-drawdown method. Groundwater quality parameters, purge rates, and depth-to-water readings were

collected every five minutes during low-flow purging of MW-7s. The low-flow sampling data sheet from the January 2021 event is provided as Attachment B. The parent and duplicate groundwater samples from MW-7s, as well as a field blank and a trip blank, were analyzed by a PA-certified laboratory for select Chlorinated Volatile Organic Compounds (CVOCs)[1], 1,4-dioxane and lead, in accordance with the PRCP. Table 2 presents a summary of the January 2021 groundwater analytical results, as well as historic groundwater analytical results for this well, in comparison to the USEPA Residential Drinking Water MCLs and PADEP Groundwater Medium-Specific Concentrations (MSCs) for Residential and Non-Residential Used Aquifers. The laboratory analytical report for the January 2021 sampling event is included as Attachment C.

Groundwater analytical results indicated that TCE was not detected above the laboratory Method Detection Limit (MDL) of 0.31 µg/L in the samples (parent and duplicate) collected from MW-7s. As shown in Table 2, this is the first instance since 2008 when MW-7s was installed that the TCE concentration is below the USEPA MCL and PADEP Residential and Non-Residential MSCs, all of which are 5 µg/L. Not only was TCE below the state and federal limits, it was not detected in either the parent or duplicate sample collected from MW-7s in January 2021. Additionally, cis-1,2-DCE, 1,1-DCE, and 1,4-dioxane were not detected above the laboratory MDLs, all of which are below the respective USEPA and PADEP standards, in MW-7s groundwater. Lead was detected at laboratory-approximated values of 8.9 J µg/L (parent sample) and 7.7 J µg/L (duplicate sample), which are slightly above the PADEP MSC of 5 µg/L (both Residential and Non-Residential) but below the USEPA MCL of 15 µg/L. The lead concentrations are similar to those detected in MW-7s groundwater during the previous sampling event completed in October 2020 (see Table 2).

PLANNED ACTIVITIES

The following activities are planned for the next quarter, from April 1, 2021 through June 30, 2021:

Quarterly Groundwater Gauging and Sampling of MW-7s

- On behalf of ABB IP, Langan will complete the next quarterly groundwater gauging and sampling of only monitoring well MW-7s in April 2021. This gauging and limited sampling will be completed in accordance with the long-term groundwater monitoring plan presented in the Post-Remediation Care Plan. The results of the quarterly gauging and limited sampling event will be documented in the Second Quarter 2021 Progress Report, to be submitted to USEPA on or before July 31, 2021.

[1] TCE, cis-1,2-dichloroethene (DCE), and 1,1,-DCE by USEPA Method 8260C, lead by USEPA Method 6010D, and 1,4-dioxane by USEPA Method 8260C SIM.

CLOSING

If you have any questions or should you require additional information, please call me at (215) 845-8915.

Sincerely,
Langan Engineering & Environmental Services, Inc.

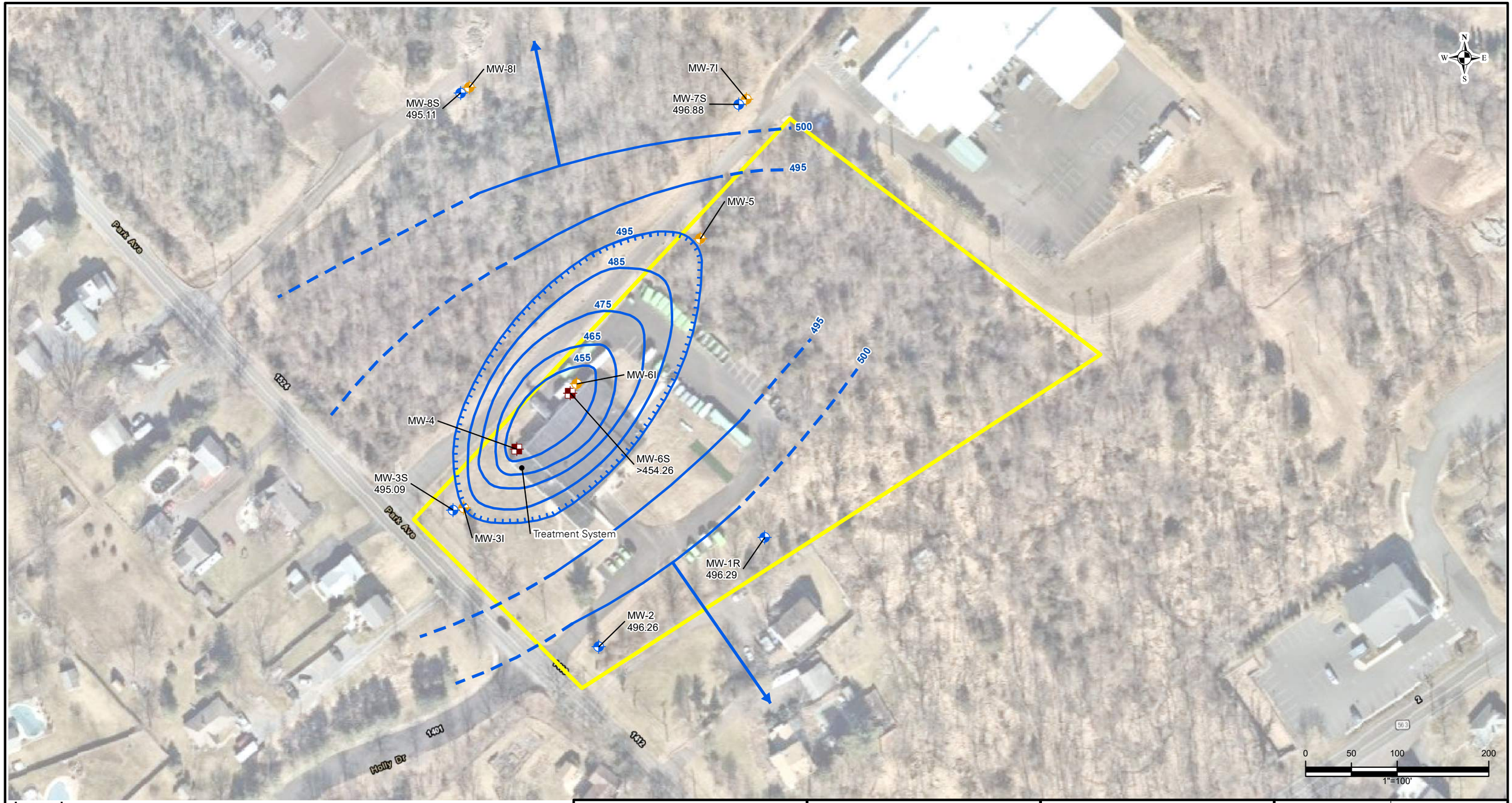
Jeffrey A. Smith, P.G
Associate

Enclosures

Figure 1 – Pumping Shallow Bedrock Groundwater Elevation Contours: January 7, 2021
Figure 2 – Pumping Intermediate Bedrock Groundwater Elevation Contours: January 7, 2021
Table 1 – Monitoring Well Groundwater Gauging and Elevation Summary: January 7, 2021
Table 2 - MW-7S Groundwater Analytical Data Summary: 2008 - 2021
Attachment A – Updated PADEP NPDES and DRBC Permits for the Groundwater Remediation System
Attachment B – MW-7s Low-Flow Groundwater Sampling Data Sheet: January 7, 2021
Attachment C - Laboratory Data Package: January 2021 Groundwater Sampling Event

Cc: Ms. Melody Christopher (ABB IP – Environmental Project Manager)
Mr. Rick Sacks (IES)
Mr. Joel Hennessy (EPA)
Mrs. Cortney Savidge (Langan)

FIGURES



Legend

- MW-2 496.26 — Shallow Bedrock Well with Groundwater Elevation
- MW-6S >454.26 — Recovery Well with Groundwater Elevation
- MW-5 — Intermediate Bedrock Wells
- Shallow Groundwater Contour (dashed where inferred)
- Groundwater Depression (dashed where inferred)
- Apparent Groundwater Flow Direction
- Property Boundary

Notes:
1. Groundwater contours consider shallow groundwater elevations only.
2. Groundwater gauging was completed by Langan on January 7, 2021.
3. Groundwater recovery and treatment system was active during groundwater gauging (i.e. wells MW-4 and MW-6S were pumping)
4. Aerial photography provided by Nearmap.com, dated 2/19/2020.
5. MW-6S water level is deeper than 85 ft. below TIC or 454.26 ft. amsl.

LANGAN
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Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying and Landscape Architecture, and Geology D.P.C.
Langan International LLC

Collectively known as Langan

Project
FORMER THOMAS & BETTS ANSLEY FACILITY
PERKASIE
BUCKS COUNTY PENNSYLVANIA

Drawing Title
PUMPING SHALLOW GROUNDWATER ELEVATIONS JANUARY 7, 2021

Project No.	2529101
Date	4/13/2021
Scale	1"=100'
Drawn By	JF
Submission Date	
Figure	1

Path: \\langan.com\data\PHL\data1\2529101\ArcGIS\MapDocuments\GW_Contours\Figure X - Shallow GW Contours January 2021.mxd

Legend

- MW-2 — Shallow Bedrock Well
- MW-4 344.37 — Recovery Well with Groundwater Elevation
- MW-5 495.12 — Intermediate Bedrock Well with Groundwater Elevation
- Intermediate Groundwater Contour (dashed where inferred)
- Groundwater Depression (dashed where inferred)
- Apparent Groundwater Flow Direction
- Property Boundary

Notes:
1. Groundwater contours consider intermediate groundwater elevations only.
2. Groundwater gauging was completed by Langan on January 7, 2021.
3. Groundwater recovery and treatment system was active during groundwater gauging (i.e. wells MW-4 and MW-6s were pumping)
4. Aerial photography provided by Nearmap.com, dated 2/19/2020.
5. MW-3I not used due to anomalous readings.

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Project

FORMER THOMAS & BETTS ANSLEY FACILITY

PERKASIE

BUCKS COUNTY PENNSYLVANIA

Drawing Title

PUMPING INTERMEDIATE GROUNDWATER ELEVATIONS JANUARY 7, 2021

Project No.	2529101
Date	4/13/2021
Scale	1"=100'
Drawn By	JF
Submission Date	

Figure 2

Path: \\langan.com\data\PHL\data1\2529101\ArcGIS\MapDocuments\GW_Contours\Figure X - Intermediate GW Contours January 2021.mxd

TABLES

Table 1

Groundwater Gauging Data Summary: January 7, 2021

Former Thomas and Betts / Ansley Facility

1501 West Park Avenue, Perkasie, Bucks County, PA

Langan Project No. 002529108

Well ID	Reference Point Elevation (ft amsl)	Well Depth (ft bgs)	Sampling Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to Bottom (ft below TOC)	PID (ppm)	Time (EST)	Groundwater Elevation (ft amsl)
MW-1R	533.9	140	70	37.61	145.96	0.0	11:19	496.29
MW-2	531.87	85	64	35.61	85.62	0.0	11:15	496.26
MW-3	538.84	155	145	43.75	156	0.0	11:45	495.09
MW-3i	537.53	285	185	0.48	300+	0.0	11:37	537.05
MW-4	540.73	213	--	196.36	206	19.1	12:08	344.37
MW-5	541.75	215	--	46.63	219	0.0	11:29	495.12
MW-6s	539.26	138	128	NM	NM	458.8	12:26	NM
MW-6i	539.33	188	153	12.85	191.2	0.0	12:19	526.48
MW-7s	540.55	135	125	43.67	140.33	0.0	13:18	496.88
MW-7i	540.76	165	147	45.90	165.10	0.0	12:55	494.86
MW-8s	535.45	140	117	40.34	141.40	0.0	11:04	495.11
MW-8i	535.42	212	180	40.31	212.2	0.0	10:59	495.11

Notes:

MW-4 and MW-6s are pumping wells for the groundwater extraction and treatment system. Pumping was active during well gauging.

* Depth-to-Water in pumping well MW-6s could not be measured using the interface probe.

ID Identicication

ft Feet

amsl Above mean sea level

bgs Below ground surface

TOC Top of Casing

PID Photo ionization detector

ppm Parts per million

EST Eastern Standard Time

NM Not measured

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Table 2

MW-7S Groundwater Analytical Data Summary: 2008 - 2021
Former Thomas and Betts / Ansley Facility
1501 West Park Avenue, Perkasie, Bucks County, PA
Langan Project #2529108

	PADEP Groundwater MSC for a Residential Used Aquifer (TDS ≤ 2,500)	PADEP Groundwater MSC for a Non-Residential Used Aquifer (TDS ≤ 2,500)	EPA Region 3 Residential Drinking Water MCLs	Well ID	MW-7s																													
				Sample ID	MW-7s-071108			MW-7s_111208			MW-7s_081915			MW-7s_072718			MW-7s_012319			MW-7S_072320			DUP-1_072320			MW-7S_100620			DUP-1_100620			MW-7S_010721			DUP-1_010721		
				Lab Sample ID	C8G120166-001			C8K140363-004			460-99953-4			460-161436-8			460-174009-9			460-214232-1			460-214232-5			460-220169-1			460-220169-2			460-226054-1			460-226054-2		
				Sampling Date	7/11/08 10:43			11/12/08 15:18			8/19/15 13:37			7/27/18 9:00			1/23/19 13:20			7/23/20 10:45			7/23/20 0:00			10/6/2020 13:35			10/6/2020 0:00			1/7/2021 14:55			1/7/2021 0:00		
				Sample Depth	125			125			125			125' bgs			125' bgs			125' bgs			125' bgs			125' bgs			125' bgs			125' bgs			125' bgs		
				Dilution Factor	1			1			1			1			1			1			1			1			1			1			1		
				System Status[1]	Pumping			Pumping			Pumping			Non-Pumping			Pumping			Pumping			Pumping			Pumping			Pumping			Pumping			Pumping		
Volatile Organic Compounds (VOCs) by Method SW846 8260C				**Units**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
1,1,1-Trichloroethane	200	200	200	µg/L	ND		1.0	ND		1.0	ND		0.28	ND		0.24	ND		0.24	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
1,1,2-Trichloroethane	5	5	5	µg/L	ND		1.2	ND		1.2	ND		0.08	ND		0.43	ND		0.43	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
1,1-Dichloroethane	31	160	NS	µg/L	ND		1.0	ND		1.0	ND		0.24	ND		0.26	ND		0.26	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
1,1-Dichloroethene	7	7	7	µg/L	ND		1.1	ND		1.1	1.5		0.34	ND		0.12	0.60	J	0.12	0.45	J	0.26	0.53	J	0.26	0.74	J	0.26	0.65	J	0.26	ND		0.26	ND		0.26
1,2-Dichloroethane	5	5	5	µg/L	ND		0.96	ND		0.96	ND		0.25	ND	*	0.43	ND		0.43	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
Chloroethane	250	1,200	NS	µg/L	ND		0.75	ND		0.75	ND		0.37	ND		0.32	ND		0.32	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
cis-1,2-Dichloroethene	70	70	70	µg/L	ND		0.67	ND		0.67	1.7		0.26	1.70		0.22	1.8		0.22	1.9		0.22	1.9		0.22	3.5		0.22	3.4		0.22	ND		0.22	ND		0.22
trans-1,2-Dichloroethene	100	100	100	µg/L	ND		0.75	ND		0.75	ND		0.18	ND		0.24	ND		0.24	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
Trichloroethene	5	5	5	µg/L	**9.5**		0.80	**6.3**		0.80	**84**		0.22	**6.4**		0.31	**21**		0.31	**19**		0.31	**19**		0.31	**24**		0.31	**23**		0.31	ND		0.31	ND		0.31
Vinyl chloride	2	2	2	µg/L	ND		1.3	ND		1.3	ND		0.06	ND		0.17	ND		0.17	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
Volatile Organic Compounds (VOCs) by Method SW846 8260C SIM				**Units**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
1,4-Dioxane	6.4	32	NS	µg/L	NA		-	NA		-	0.65	J	0.35	ND		0.20	ND		0.20	ND		0.33	ND		0.33	ND		0.33	ND		0.33	ND		0.33	ND		0.33
Metals by Methods 6010D & 6020B				**Units**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
Cadmium	5	5	5	µg/L	ND		5.0	ND		5.0	ND		2.3	0.37	J	0.22	ND		0.22	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
Iron[2]	-	-	-	µg/L	689		100	1,590		100	2,060		65.4	2,650		34.2	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
Lead	5	5	15	µg/L	ND		3.0	ND		3.0	**16**		4.2	**7.0**	J	2.5	ND		2.5	ND		2.4	ND		2.4	**5.1**	J	2.4	4.6	J	2.4	**8.9**	J	2.4	**7.7**	J	2.4
Manganese[2]	-	-	-	µg/L	499		15	503		15	1,110		4.9	1,170		0.99	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
Metals by Method 7470A				**Units**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
Mercury	2	2	2	µg/L	NA		-	NA		-	NA		-	ND		0.12	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-

Notes:

9.5 - Result exceeds the EPA Residential Drinking Water MCL and the PADEP Groundwater MSCs for Residential and Non-Residential Used Aquifer scenarios

7.0 - Result exceeds the PADEP Groundwater MSCs for Residential and Non-Residential Used Aquifer scenarios

[1] - Groundwater extraction and recovery system status during sampling. Pumping indicates the

[2] - Iron and manganese are not Site consituents of concern and were analyzed for system optimization data only. Therefore, regulatory criteria for these analytes are not reported.

PADEP - Pennsylvania Department of Environmental Protection
EPA - U.S. Environmental Protection Agency
MSC - Medium-Specific concentration
MCL - Maximum Contaminant Level
TDS - Total Dissolved Solids
NS - No standard available
µg/L - micrograms per liter
' bgs - feet below ground surface
Q - Laboratory qualifier
MDL - Laboratory Method Detection Limit
ND - Compound not detected above respective laboratory MDL
NA - Not Analyzed
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
* - Laboratory control sample (LCS) or LCS duplicate is outside acceptance limits.

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Table 2

MW-7S Groundwater Analytical Data Summary: 2008 - 2021
Former Thomas and Betts / Ansley Facility
1501 West Park Avenue, Perkasie, Bucks County, PA
Langan Project #2529108

	PADEP Groundwater MSC for a Residential Used Aquifer (TDS ≤ 2,500)	PADEP Groundwater MSC for a Non-Residential Used Aquifer (TDS ≤ 2,500)	EPA Region 3 Residential Drinking Water MCLs	Well ID / Sample ID / Lab Sample ID / Sampling Date / Sample Depth / Dilution Factor / System Status[1]	Field Blanks for Quality Assurance																				
					FB-1_072618			FB-2_072718			FB-1_012219			FB-2_012319			FB-1_072220			FB-2_072320			FB-1_100620			FB-1_010721		
					460-161436-12			460-161436-13			460-174009-5			460-174009-11			460-213996-6			460-214232-7			460-220169-3			460-226054-3		
					7/26/18 18:15			7/27/18 15:00			1/22/19 16:30			1/23/19 12:15			7/22/20 15:00			7/23/20 0:00			10/06/2020 14:15:00			01/07/2021 14:40:00		
					-			-			-			-			-			-			-			-		
					1			1			1			1			1			1			1			1		
					Non-Pumping			Non-Pumping			Pumping			Pumping			Pumping			Pumping			Pumping			Pumping		
Volatile Organic Compounds (VOCs) by Method SW846 8260C				**Units**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
1,1,1-Trichloroethane	200	200	200	µg/L	ND		0.24	ND		0.24	ND		0.24	ND		0.24	NA		-	NA		-	NA		-	NA		-
1,1,2-Trichloroethane	5	5	5	µg/L	ND		0.43	ND		0.43	ND		0.43	ND		0.43	NA		-	NA		-	NA		-	NA		-
1,1-Dichloroethane	31	160	NS	µg/L	ND		0.26	ND		0.26	ND		0.26	ND		0.26	NA		-	NA		-	NA		-	NA		-
1,1-Dichloroethene	7	7	7	µg/L	ND		0.12	ND		0.12	ND		0.12	ND		0.12	ND		0.26	ND		0.26	ND		0.26	ND		0.26
1,2-Dichloroethane	5	5	5	µg/L	ND	*	0.43	ND	*	0.43	ND		0.43	ND		0.43	NA		-	NA		-	NA		-	NA		-
Chloroethane	250	1,200	NS	µg/L	ND		0.32	ND		0.32	ND		0.32	ND		0.32	NA		-	NA		-	NA		-	NA		-
cis-1,2-Dichloroethene	70	70	70	µg/L	ND		0.22	ND		0.22	ND		0.22	ND		0.22	ND		0.22	ND		0.22	ND		0.22	ND		0.22
trans-1,2-Dichloroethene	100	100	100	µg/L	ND		0.24	ND		0.24	ND		0.24	ND		0.24	NA		-	NA		-	NA		-	NA		-
Trichloroethene	5	5	5	µg/L	ND		0.31	ND		0.31	ND		0.31	ND		0.31	ND		0.31	ND		0.31	ND		0.31	ND		0.31
Vinyl chloride	2	2	2	µg/L	ND		0.17	ND		0.17	ND		0.17	ND		0.17	NA		-	NA		-	NA		-	NA		-
Volatile Organic Compounds (VOCs) by Method SW846 8260C SIM				**Units**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
1,4-Dioxane	6.4	32	NS	µg/L	ND		0.20	ND		0.20	ND		0.20	ND		0.20	ND		0.33	ND		0.33	ND		0.33	ND		0.33
Metals by Methods 6010D & 6020B				**Units**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
Cadmium	5	5	5	µg/L	ND		0.22	ND		0.22	ND		0.22	ND		0.22	NA		-	NA		-	NA		-	NA		-
Iron[2]	-	-	-	µg/L	ND		34.2	ND		34.2	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
Lead	5	5	15	µg/L	ND		2.5	ND		2.5	ND		2.5	ND		2.5	NA		-	NA		-	ND		2.4	ND		2.4
Manganese[2]	-	-	-	µg/L	ND		0.99	ND		0.99	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
Metals by Method 7470A				**Units**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
Mercury	2	2	2	µg/L	ND		0.12	ND		0.12	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-

Notes:

9.5 - Result exceeds the EPA Residential Drinking Water MCL and the PADEP Groundwater MSCs for Residential and Non-Residential Used Aquifer scenarios

7.0 - Result exceeds the PADEP Groundwater MSCs for Residential and Non-Residential Used Aquifer scenarios

[1] - Groundwater extraction and recovery system status during sampling. Pumping indicates the

[2] - Iron and manganese are not Site consituents of concern and were analyzed for system optimization data only. Therefore, regulatory criteria for these analytes are not reported.

PADEP - Pennsylvania Department of Environmental Protection
EPA - U.S. Environmental Protection Agency
MSC - Medium-Specific concentration
MCL - Maximum Contaminant Level
TDS - Total Dissolved Solids
NS - No standard available
µg/L - micrograms per liter
' bgs - feet below ground surface
Q - Laboratory qualifier
MDL - Laboratory Method Detection Limit
ND - Compound not detected above respective laboratory MDL
NA - Not Analyzed
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
* - Laboratory control sample (LCS) or LCS duplicate is outside acceptance limits.

Table 2

MW-7S Groundwater Analytical Data Summary: 2008 - 2021
Former Thomas and Betts / Ansley Facility
1501 West Park Avenue, Perkasie, Bucks County, PA
Langan Project #2529108

	PADEP Groundwater MSC for a Residential Used Aquifer (TDS ≤ 2,500)	PADEP Groundwater MSC for a Non-Residential Used Aquifer (TDS ≤ 2,500)	EPA Region 3 Residential Drinking Water MCLs	Well ID / Sample ID / Lab Sample ID / Sampling Date / Sample Depth / Dilution Factor / System Status[1]	Trip Blanks for Quality Assurance																	
					TRIP BLANK 460-161436-14 7/25/18 18:15 - 1 Non-Pumping			TRIP BLANK 460-173981-5 1/23/19 0:00 - 1 Pumping			TRIP BLANK 460-174009-6 1/23/19 13:20 - 1 Pumping			TRIP BLANK 460-213996-5 7/22/20 0:00 - 1 Pumping			TRIP BLANK 460-214232-6 7/23/20 0:00 - 1 Pumping			TRIP BLANK 460-220169-4 10/06/2020 14:15:00 - 1 Pumping			TRIP BLANK 460-226054-4 01/07/2021 14:55:00 - 1 Pumping		
Volatile Organic Compounds (VOCs) by Method SW846 8260C				**Units**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
1,1,1-Trichloroethane	200	200	200	µg/L	ND		0.24	ND		0.24	ND		0.24	NA		-	NA		-	NA		-	NA		-
1,1,2-Trichloroethane	5	5	5	µg/L	ND		0.43	ND		0.43	ND		0.43	NA		-	NA		-	NA		-	NA		-
1,1-Dichloroethane	31	160	NS	µg/L	ND		0.26	ND		0.26	ND		0.26	NA		-	NA		-	NA		-	NA		-
1,1-Dichloroethene	7	7	7	µg/L	ND		0.12	ND		0.12	ND		0.12	ND		0.26	ND		0.26	ND		0.26	ND		0.26
1,2-Dichloroethane	5	5	5	µg/L	ND	*	0.43	ND		0.43	ND		0.43	NA		-	NA		-	NA		-	NA		-
Chloroethane	250	1,200	NS	µg/L	ND		0.32	ND		0.32	ND		0.32	NA		-	NA		-	NA		-	NA		-
cis-1,2-Dichloroethene	70	70	70	µg/L	ND		0.22	ND		0.22	ND		0.22	ND		0.22	ND		0.22	ND		0.22	ND		0.22
trans-1,2-Dichloroethene	100	100	100	µg/L	ND		0.24	ND		0.24	ND		0.24	NA		-	NA		-	NA		-	NA		-
Trichloroethene	5	5	5	µg/L	ND		0.31	ND		0.31	ND		0.31	ND		0.31	ND		0.31	ND		0.31	ND		0.31
Vinyl chloride	2	2	2	µg/L	ND		0.17	ND		0.17	ND		0.17	NA		-	NA		-	NA		-	NA		-
Volatile Organic Compounds (VOCs) by Method SW846 8260C SIM				**Units**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
1,4-Dioxane	6.4	32	NS	µg/L	ND		0.20	ND		0.20	ND		0.20	ND		0.33	NA		-	NA		-	NA		-
Metals by Methods 6010D & 6020B				**Units**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
Cadmium	5	5	5	µg/L	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
Iron[2]	-	-	-	µg/L	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
Lead	5	5	15	µg/L	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
Manganese[2]	-	-	-	µg/L	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-
Metals by Method 7470A				**Units**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
Mercury	2	2	2	µg/L	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-	NA		-

Notes:

9.5 - Result exceeds the EPA Residential Drinking Water MCL and the PADEP Groundwater MSCs for Residential and Non-Residential Used Aquifer scenarios

7.0 - Result exceeds the PADEP Groundwater MSCs for Residential and Non-Residential Used Aquifer scenarios

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ATTACHMENTS

ATTACHMENT A

Updated PADEP NPDES and DRBC Permits for the Groundwater Remediation System

LANGAN

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES

NPDES PERMIT NO: PA0040321
Amendment No. 1

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 *et seq.* ("the Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 *et seq.*,

ABB Installation Products, Inc.
131 Phoenix Crossing
Bloomfield, CT 06002

is authorized to discharge from a facility known as **ABB Installation Products – Perkasie Plant**, located in **East Rockhill Township, Bucks County**, to **Unnamed Tributary to East Branch Perkiomen Creek (TSF, MF)** in Watershed(s) **3-E** in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON MARCH 1, 2021

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON MARCH 31, 2025

The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.

2. Failure to comply with the terms, conditions or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (40 CFR 122.41(a))

3. A complete application for renewal of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form. (40 CFR 122.41(b), 122.21(d)(2))

   In the event that a timely and complete application for renewal has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports (DMRs), will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. (25 Pa. Code §§ 92a.7 (b), (c))

4. This NPDES permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

DATE PERMIT ISSUED 3/16/2020 **ISSUED BY** /s/

Thomas L. Magge
Environmental Program Manager
Southeast Regional Office

DATE PERMIT AMENDMENT ISSUED **02/09/2021**

Permit No. PA0040321 A-1

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. A. For Outfall 001 **, Latitude** 40º 22' 37.00" **, Longitude** 75º 18' 23.00" **, River Mile Index** 0.87 **, Stream Code** 01270

Receiving Waters: Unnamed Tributary to East Branch Perkiomen Creek (TSF, MF)

Type of Effluent: Groundwater Cleanup Discharge

1. The permittee is authorized to discharge during the period from **Permit Effective Date** through **Permit Expiration Date**.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (GPD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
1,1,1-Trichloroethane	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
1,1,1-Trichloroethane Industrial Influent	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Tetrachloroethylene	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Tetrachloroethylene Industrial Influent	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Trichloroethylene Industrial Influent	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Trichloroethylene	XXX	XXX	XXX	0.003	XXX	0.036	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at Outfall 001

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS (Continued)

Additional Requirements

The permittee may not discharge:

1. Floating solids, scum, sheen or substances that result in observed deposits in the receiving water. (25 Pa Code § 92a.41(c))

2. Oil and grease in amounts that cause a film or sheen upon or discoloration of the waters of this Commonwealth or adjoining shoreline, or that exceed 15 mg/l as a daily average or 30 mg/l at any time (or lesser amounts if specified in this permit). (25 Pa. Code § 92a.47(a)(7), § 95.2(2))

3. Substances in concentration or amounts sufficient to be inimical or harmful to the water uses to be protected or to human, animal, plant or aquatic life. (25 Pa Code § 93.6(a))

4. Foam or substances that produce an observed change in the color, taste, odor or turbidity of the receiving water, unless those conditions are otherwise controlled through effluent limitations or other requirements in this permit. For the purpose of determining compliance with this condition, DEP will compare conditions in the receiving water upstream of the discharge to conditions in the receiving water approximately 100 feet downstream of the discharge to determine if there is an observable change in the receiving water. (25 Pa Code § 92a.41(c))

Footnotes

(1) When sampling to determine compliance with mass effluent limitations, the discharge flow at the time of sampling must be measured and recorded.

(2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

Supplemental Information

The effluent limitations for Outfall 001 were determined using an effluent discharge rate of 0.043 MGD.

II. DEFINITIONS

At Outfall (XXX) means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line (XXX), or where otherwise specified.

Average refers to the use of an arithmetic mean, unless otherwise specified in this permit. (40 CFR 122.41(l)(4)(iii))

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the pollutant loading to surface waters of the Commonwealth. The term also includes treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. The term includes activities, facilities, measures, planning or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim, and restore the quality of waters and the existing and designated uses of waters within this Commonwealth before, during and after earth disturbance activities. (25 Pa. Code § 92a.2)

Bypass means the intentional diversion of waste streams from any portion of a treatment facility. (40 CFR 122.41(m)(1)(i))

Calendar Week is defined as the seven consecutive days from Sunday through Saturday, unless the permittee has been given permission by DEP to provide weekly data as Monday through Friday based on showing excellent performance of the facility and a history of compliance. In cases when the week falls in two separate months, the month with the most days in that week shall be the month for reporting.

Clean Water Act means the Federal Water Pollution Control Act, as amended. (33 U.S.C.A. §§ 1251 to 1387).

Chemical Additive means a chemical product (including products of disassociation and degradation, collectively "products") introduced into a waste stream that is used for cleaning, disinfecting, or maintenance and which may be detected in effluent discharged to waters of the Commonwealth. The term generally excludes chemicals used for neutralization of waste streams, the production of goods, and treatment of wastewater.

Composite Sample (for all except GC/MS volatile organic analysis) means a combination of individual samples (at least eight for a 24-hour period or four for an 8-hour period) of at least 100 milliliters (mL) each obtained at spaced time intervals during the compositing period. The composite must be flow-proportional; either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval is proportional to the flow rates over the time period used to produce the composite. (EPA Form 2C)

Composite Sample (for GC/MS volatile organic analysis) consists of at least four aliquots or grab samples collected during the sampling event (not necessarily flow proportioned). A separate analysis should be performed for each sample and the results should be averaged.

Daily Average Temperature means the average of all temperature measurements made, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar day or during the operating day if flows are of a shorter duration.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day. (25 Pa. Code § 92a.2, 40 CFR 122.2)

Daily Maximum Discharge Limitation means the highest allowable "daily discharge."

Discharge Monitoring Report (DMR) means the DEP or EPA supplied form(s) for the reporting of self-monitoring results by the permittee. (25 Pa. Code § 92a.2, 40 CFR 122.2)

Estimated Flow means any method of liquid volume measurement based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters and batch discharge volumes.

Geometric Mean means the average of a set of n sample results given by the nth root of their product.

Grab Sample means an individual sample of at least 100 mL collected at a randomly selected time over a period not to exceed 15 minutes. (EPA Form 2C)

Hazardous Substance means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act. (40 CFR 122.2)

Hauled-In Wastes means any waste that is introduced into a treatment facility through any method other than a direct connection to the wastewater collection system. The term includes wastes transported to and disposed of within the treatment facility or other entry points within the collection system.

Immersion Stabilization (i-s) means a calibrated device is immersed in the wastewater until the reading is stabilized.

Instantaneous Maximum Effluent Limitation means the highest allowable discharge of a concentration or mass of a substance at any one time as measured by a grab sample. (25 Pa. Code § 92a.2)

Measured Flow means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.

Monthly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month. (25 Pa. Code § 92a.2)

Municipal Waste means garbage, refuse, industrial lunchroom or office waste and other material, including solid, liquid, semisolid or contained gaseous material resulting from operation of residential, municipal, commercial or institutional establishments and from community activities; and sludge not meeting the definition of residual or hazardous waste under this section from a municipal, commercial or institutional water supply treatment plant, waste water treatment plant or air pollution control facility. (25 Pa. Code § 271.1)

Non-contact Cooling Water means water used to reduce temperature which does not come in direct contact with any raw material, intermediate product, waste product (other than heat), or finished product.

Residual Waste means garbage, refuse, other discarded material or other waste, including solid, liquid, semisolid or contained gaseous materials resulting from industrial, mining and agricultural operations and sludge from an industrial, mining or agricultural water supply treatment facility, wastewater treatment facility or air pollution control facility, if it is not hazardous. The term does not include coal refuse as defined in the Coal Refuse Disposal Control Act. The term does not include treatment sludges from coal mine drainage treatment plants, disposal of which is being carried on under and in compliance with a valid permit issued under the Clean Streams Law. (25 Pa Code § 287.1)

Severe Property Damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. (40 CFR 122.41(m)(1)(ii))

Stormwater means the runoff from precipitation, snow melt runoff, and surface runoff and drainage. (25 Pa. Code § 92a.2)

Stormwater Associated With Industrial Activity means the discharge from any conveyance that is used for collecting and conveying stormwater and that is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant, and as defined at 40 CFR 122.26(b)(14) (i) - (ix) & (xi) and 25 Pa. Code § 92a.2.

Total Dissolved Solids means the total dissolved (filterable) solids as determined by use of the method specified in 40 CFR Part 136.

Toxic Pollutant means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring. (25 Pa. Code § 92a.2)

III. SELF-MONITORING, REPORTING AND RECORDKEEPING

A. Representative Sampling

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity (40 CFR 122.41(j)(1)). Representative sampling includes the collection of samples, where possible, during periods of adverse weather, changes in treatment plant performance and changes in treatment plant loading. If possible, effluent samples must be collected where the effluent is well mixed near the center of the discharge conveyance and at the approximate mid-depth point, where the turbulence is at a maximum and the settlement of solids is minimized. (40 CFR 122.48, 25 Pa. Code § 92a.61)

2. Records Retention (40 CFR 122.41(j)(2))

   Except for records of monitoring information required by this permit related to the permittee's sludge use and disposal activities which shall be retained for a period of at least 5 years, all records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for 3 years from the date of the sample measurement, report or application, unless a longer retention period is required by the permit. The 3-year period shall be extended as requested by DEP or the EPA Regional Administrator.

3. Recording of Results (40 CFR 122.41(j)(3))

   For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

   a. The exact place, date and time of sampling or measurements.
   b. The person(s) who performed the sampling or measurements.
   c. The date(s) the analyses were performed.
   d. The person(s) who performed the analyses.
   e. The analytical techniques or methods used; and the associated detection level.
   f. The results of such analyses.

4. Test Procedures

   a. Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of Act 90 of 2002 (27 Pa. C.S. §§ 4101-4113) and 25 Pa. Code Chapter 252, relating to environmental laboratory accreditation.

   b. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be those approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, unless the method is specified in this permit or has been otherwise approved in writing by DEP. (40 CFR 122.41(j)(4), 122.44(i)(1)(iv))

   c. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be sufficiently sensitive. A method is sufficiently sensitive when 1) the method minimum level is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or 2) the method has the lowest minimum level of the analytical methods approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, for the measured pollutant or pollutant parameter; or 3) the method is specified in this permit or has been otherwise approved in writing by DEP for the measured pollutant or pollutant parameter. Permittees have the option of providing matrix or sample-specific minimum levels rather than the published levels. (40 CFR 122.44(i)(1)(iv))

5. Quality/Assurance/Control

In an effort to assure accurate self-monitoring analyses results:

a. The permittee, or its designated laboratory, shall participate in the periodic scheduled quality assurance inspections conducted by DEP and EPA. (40 CFR 122.41(e), 122.41(i)(3))

b. The permittee, or its designated laboratory, shall develop and implement a program to assure the quality and accurateness of the analyses performed to satisfy the requirements of this permit, in accordance with 40 CFR Part 136. (40 CFR 122.41(j)(4))

B. Reporting of Monitoring Results

1. The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.44, 92a.61(i) and 40 CFR §§ 122.41(e), 122.44(i)(1))

2. The permittee shall use DEP's electronic Discharge Monitoring Report (eDMR) system to report the results of compliance monitoring under this permit (see www.dep.pa.gov/edmr). Permittees that are not using the eDMR system as of the effective date of this permit shall submit the necessary registration and trading partner agreement forms to DEP's Bureau of Clean Water (BCW) within 30 days of the effective date of this permit and begin using the eDMR system when notified by DEP BCW to do so. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))

3. Submission of a physical (paper) copy of a Discharge Monitoring Report (DMR) is acceptable under the following circumstances:

a. For a permittee that is not yet using the eDMR system, the permittee shall submit a physical copy of a DMR to the DEP regional office that issued the permit during the interim period between the submission of registration and trading partner agreement forms to DEP and DEP's notification to begin using the eDMR system.

b. For any permittee, as a contingency a physical DMR may be mailed to the DEP regional office that issued the permit if there are technological malfunction(s) that prevent the successful submission of a DMR through the eDMR system. In such situations, the permittee shall submit the DMR through the eDMR system within 5 days following remedy of the malfunction(s).

4. DMRs must be completed in accordance with DEP's published DMR instructions (3800-FM-BCW0463). DMRs must be received by DEP no later than 28 days following the end of the monitoring period. DMRs are based on calendar reporting periods and must be received by DEP in accordance with the following schedule:

- Monthly DMRs must be received within 28 days following the end of each calendar month.
- Quarterly DMRs must be received within 28 days following the end of each calendar quarter, i.e., January 28, April 28, July 28, and October 28.
- Semiannual DMRs must be received within 28 days following the end of each calendar semiannual period, i.e., January 28 and July 28.
- Annual DMRs must be received by January 28, unless Part C of this permit requires otherwise.

5. The permittee shall complete all Supplemental Reporting forms (Supplemental DMRs) attached to this permit, or an approved equivalent, and submit the signed, completed forms as attachments to the DMR, through DEP's eDMR system. DEP's Supplemental Laboratory Accreditation Form (3800-FM-BCW0189) must be completed and submitted to DEP with the first DMR following issuance of this permit, and anytime thereafter when changes to laboratories or methods occur. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))

6. The completed DMR Form shall be signed and certified by either of the following applicable persons, as defined in 25 Pa. Code § 92a.22:

- For a corporation - by a principal executive officer of at least the level of vice president, or an authorized representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
- For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
- For a municipality, state, federal or other public agency - by a principal executive officer or ranking elected official.

If signed by a person other than the above and for co-permittees, written notification of delegation of DMR signatory authority must be submitted to DEP in advance of or along with the relevant DMR form. (40 CFR § 122.22(b))

7. If the permittee monitors any pollutant at monitoring points as designated by this permit, using analytical methods described in Part A III.A.4. herein, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR. (40 CFR 122.41(l)(4)(ii))

C. Reporting Requirements

1. Planned Changes to Physical Facilities – The permittee shall give notice to DEP as soon as possible but no later than 30 days prior to planned physical alterations or additions to the permitted facility. A permit under 25 Pa. Code Chapter 91 may be required for these situations prior to implementing the planned changes. A permit application, or other written submission to DEP, can be used to satisfy the notification requirements of this section.

   Notice is required when:

   a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b). (40 CFR 122.41(l)(1)(i))

   b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in this permit. (40 CFR 122.41(l)(1)(ii))

   c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. (40 CFR 122.41(l)(1)(iii))

   d. The planned change may result in noncompliance with permit requirements. (40 CFR 122.41(l)(2))

2. Planned Changes to Waste Stream – Under the authority of 25 Pa. Code § 92a.24(a), the permittee shall provide notice to DEP as soon as possible but no later than 45 days prior to any planned changes in the volume or pollutant concentration of its influent waste stream, as specified in paragraphs 2.a. and 2.b., below. Notice shall be provided on the “Planned Changes to Waste Stream” Supplemental Report (3800-FM-BCW0482), available on DEP’s website. The permittee shall provide information on the quality and quantity of waste introduced into the facility, and any anticipated impact of the change on the quantity or quality of effluent to be discharged from the facility. The Report shall be sent via Certified Mail or other means to confirm DEP’s receipt of the notification. DEP will determine if the submission of a new application and receipt of a new or amended permit is required.

   a. Introduction of New Pollutants (25 Pa. Code § 92a.24(a))

      New pollutants are defined as parameters that meet all of the following criteria:

      (i) Were not detected in the facilities’ influent waste stream as reported in the permit application; and

(ii) Have not been approved to be included in the permittee's influent waste stream by DEP in writing.

The permittee shall provide notification of the introduction of new pollutants in accordance with paragraph 2 above. The permittee may not authorize the introduction of new pollutants until the permittee receives DEP's written approval.

b. Increased Loading of Approved Pollutants (25 Pa. Code § 92a.24(a))

Approved pollutants are defined as parameters that meet one or more of the following criteria:

(i) Were detected in the facilities' influent waste stream as reported in the permittee's permit application; or

(ii) Have been approved to be included in the permittee's influent waste stream by DEP in writing; or

(iii) Have an effluent limitation or monitoring requirement in this permit.

The permittee shall provide notification of the introduction of increased influent loading (lbs/day) of approved pollutants in accordance with paragraph 2 above when (1) the cumulative increase in influent loading (lbs/day) exceeds 20% of the maximum loading reported in the permit application, or a loading previously approved by DEP, or (2) may cause an exceedance in the effluent of Effluent Limitation Guidelines (ELGs) or limitations in Part A of this permit, or (3) may cause interference or pass through at the facility (as defined at 40 CFR 403.3), or (4) may cause exceedances of the applicable water quality standards in the receiving stream. Unless specified otherwise in this permit, if DEP does not respond to the notification within 30 days of its receipt, the permittee may proceed with the increase in loading. The acceptance of increased loading of approved pollutants may not result in an exceedance of ELGs or effluent limitations and may not cause exceedances of the applicable water quality standards in the receiving stream.

3. Reporting Requirements for Hauled-In Wastes

a. Receipt of Residual Waste

(i) The permittee shall document the receipt of all hauled-in residual wastes (including but not limited to wastewater from oil and gas wells, food processing waste, and landfill leachate), as defined at 25 Pa. Code § 287.1, that are received for processing at the treatment facility. The permittee shall report hauled-in residual wastes on a monthly basis to DEP on the "Hauled In Residual Wastes" Supplemental Report (3800-FM-BCW0450) as an attachment to the DMR. If no residual wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report. The information used to develop the Report shall be retained by the permittee for five years from the date of receipt and must be made available to DEP or EPA upon request.

(1) The dates that residual wastes were received.

(2) The volume (gallons) of wastes received.

(3) The license plate number of the vehicle transporting the waste to the treatment facility.

(4) The permit number(s) of the well(s) where residual wastes were generated, if applicable.

(5) The name and address of the generator of the residual wastes.

(6) The type of wastewater.

The transporter of residual waste must maintain these and other records as part of the daily operational record (25 Pa. Code § 299.219). If the transporter is unable to provide this information or the permittee has not otherwise received the information from the generator, the residual wastes shall not be accepted by the permittee until such time as the permittee receives such information from the transporter or generator.

(ii) The following conditions apply to the characterization of residual wastes received by the permittee:

(1) If the generator is required to complete a chemical analysis of residual wastes in accordance with 25 Pa. Code § 287.51, the permittee must receive and maintain on file a chemical analysis of the residual wastes it receives. The chemical analysis must conform to the Bureau of Waste Management's Form 26R except as noted in paragraph (2), below. Each load of residual waste received must be covered by a chemical analysis if the generator is required to complete it.

(2) For wastewater generated from hydraulic fracturing operations ("frac wastewater") within the first 30 production days of a well site, the chemical analysis may be a general frac wastewater characterization approved by DEP. Thereafter, the chemical analysis must be waste-specific and be reported on the Form 26R.

b. Receipt of Municipal Waste

(i) The permittee shall document the receipt of all hauled-in municipal wastes (including but not limited to septage and liquid sewage sludge), as defined at 25 Pa. Code § 271.1, that are received for processing at the treatment facility. The permittee shall report hauled-in municipal wastes on a monthly basis to DEP on the "Hauled In Municipal Wastes" Supplemental Report (3800-FM-BCW0437) as an attachment to the DMR. If no municipal wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report:

(1) The dates that municipal wastes were received.

(2) The volume (gallons) of wastes received.

(3) The BOD_5 concentration (mg/l) and load (lbs) for the wastes received.

(4) The location(s) where wastes were disposed of within the treatment facility.

(ii) Sampling and analysis of hauled-in municipal wastes must be completed to characterize the organic strength of the wastes, unless composite sampling of influent wastewater is performed at a location downstream of the point of entry for the wastes.

4. Unanticipated Noncompliance or Potential Pollution Reporting

a. Immediate Reporting - The permittee shall immediately report any incident causing or threatening pollution in accordance with the requirements of 25 Pa. Code §§ 91.33 and 92a.41(b).

(i) If, because of an accident, other activity or incident a toxic substance or another substance which would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify DEP by telephone of the location and nature of the danger. Oral notification to the Department is required as soon as possible, but no later than 4 hours after the permittee becomes aware of the incident causing or threatening pollution.

(ii) If reasonably possible to do so, the permittee shall immediately notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger.

(iii) The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.

b. The permittee shall report any noncompliance which may endanger health or the environment in accordance with the requirements of 40 CFR 122.41(l)(6). These requirements include the following obligations:

(i) 24 Hour Reporting - The permittee shall orally report any noncompliance with this permit which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which must be reported within 24 hours under this paragraph:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(2) Any upset which exceeds any effluent limitation in the permit; and

(3) Violation of the maximum daily discharge limitation for any of the pollutants listed in the permit as being subject to the 24-hour reporting requirement. (40 CFR 122.44(g))

(ii) Written Report - A written submission shall also be provided within 5 days of the time the permittee becomes aware of any noncompliance which may endanger health or the environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

(iii) Waiver of Written Report - DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by DEP, the permittee shall submit a written report in accordance with this paragraph. (40 CFR 122.41(l)(6)(iii))

5. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraph C.4 of this section or specific requirements of compliance schedules, at the time DMRs are submitted, on the Non-Compliance Reporting Form (3800-FM-BCW0440). The reports shall contain the information listed in paragraph C.4.b.(ii) of this section. (40 CFR 122.41(l)(7))

D. Specific Toxic Pollutant Notification Levels (for Manufacturing, Commercial, Mining, and Silvicultural Direct Dischargers) - The permittee shall notify DEP as soon as it knows or has reason to believe the following: (40 CFR 122.42(a))

1. That any activity has occurred, or will occur, which would result in the discharge of any toxic pollutant which is not limited in this permit, if that discharge on a routine or frequent basis will exceed the highest of the following "notification levels": (40 CFR 122.42(a)(1))

a. One hundred micrograms per liter.

b. Two hundred micrograms per liter for acrolein and acrylonitrile.

c. Five hundred micrograms per liter for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol.

d. One milligram per liter for antimony.

e. Five times the maximum concentration value reported for that pollutant in this permit application.

f. Any other notification level established by DEP.

2. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following "notification levels": (40 CFR 122.42(a)(2))

a. Five hundred micrograms per liter.

b. One milligram per liter for antimony.

c. Ten times the maximum concentration value reported for that pollutant in the permit application.

d. Any other notification level established by DEP.

PART B

I. MANAGEMENT REQUIREMENTS

A. Compliance

1. The permittee shall comply with all conditions of this permit. If a compliance schedule has been established in this permit, the permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit. (40 CFR 122.41(a)(1))

2. The permittee shall submit reports of compliance or noncompliance, or progress reports as applicable, for any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline. (25 Pa. Code § 92a.51(c), 40 CFR 122.47(a)(4))

B. Permit Modification, Termination, or Revocation and Reissuance

1. This permit may be modified, terminated, or revoked and reissued during its term in accordance with 25 Pa. Code § 92a.72 and 40 CFR 122.41(f).

2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. (40 CFR 122.41(f))

3. In the absence of DEP action to modify or revoke and reissue this permit, the permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions. (40 CFR 122.41(a)(1))

C. Duty to Provide Information

1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. (40 CFR 122.41(h))

2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this permit. (40 CFR 122.41(h))

3. Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to DEP, it shall promptly submit the correct and complete facts or information. (40 CFR 122.41(l)(8))

D. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, adequate laboratory controls including appropriate quality assurance procedures. This provision also includes the operation of backup or auxiliary facilities or similar systems that are installed by the permittee, only when necessary to achieve compliance with the terms and conditions of this permit. (40 CFR 122.41(e))

E. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge, sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment. (40 CFR 122.41(d))

F. Bypassing

1. Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions in paragraphs two, three and four of this section. (40 CFR 122.41(m)(2))

2. Other Bypassing - In all other situations, bypassing is prohibited and DEP may take enforcement action against the permittee for bypass unless:

   a. A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage." (40 CFR 122.41(m)(4)(i)(A))

   b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance. (40 CFR 122.41(m)(4)(i)(B))

   c. The permittee submitted the necessary notice required in F.4.a. and b. below. (40 CFR 122.41(m)(4)(i)(C))

3. DEP may approve an anticipated bypass, after considering its adverse effects, if DEP determines that it will meet the conditions listed in F.2. above. (40 CFR 122.41(m)(4)(ii))

4. Notice

   a. Anticipated Bypass – If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least 10 days before the bypass. (40 CFR 122.41(m)(3)(i))

   b. Unanticipated Bypass – The permittee shall submit oral notice of any other unanticipated bypass within 24 hours, regardless of whether the bypass may endanger health or the environment or whether the bypass exceeds effluent limitations. The notice shall be in accordance with Part A III.C.4.b.

G. Termination of Permit Coverage (25 Pa. Code § 92a.74 and 40 CFR 122.64)

1. Notice of Termination (NOT) – If the permittee plans to cease operations or will otherwise no longer require coverage under this permit, the permittee shall submit DEP's NPDES Notice of Termination (NOT) for Permits Issued Under Chapter 92a (3800-BCW-0410), signed in accordance with Part A III.B.6 of this permit, at least 30 days prior to cessation of operations or the date by which coverage is no longer required.

2. Where the permittee plans to cease operations, NOTs must be accompanied with an operation closure plan that identifies how tankage and equipment will be decommissioned and how pollutants will be managed, as applicable.

3. The permittee shall submit the NOT to the DEP regional office with jurisdiction over the county in which the facility is located.

II. PENALTIES AND LIABILITY

A. Violations of Permit Conditions

Any person violating Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative and/or criminal penalties as set forth in 40 CFR 122.41(a)(2).

Any person or municipality, who violates any provision of this permit; any rule, regulation or order of DEP; or any condition or limitation of any permit issued pursuant to the Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603 and 605 of the Clean Streams Law.

B. Falsifying Information

Any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or

- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or noncompliance)

Shall, upon conviction, be punished by a fine and/or imprisonment as set forth in 18 Pa.C.S.A § 4904 and 40 CFR 122.41(j)(5) and (k)(2).

C. Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance pursuant to Section 309 of the Clean Water Act or Sections 602, 603 or 605 of the Clean Streams Law.

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under the Clean Water Act and the Clean Streams Law.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (40 CFR 122.41(c))

III. OTHER RESPONSIBILITIES

A. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law, and Title 25 Pa. Code Chapter 92a and 40 CFR 122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law:

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; (40 CFR 122.41(i)(1))

2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit; (40 CFR 122.41(i)(2))

3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and (40 CFR 122.41(i)(3))

4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Clean Streams Law, any substances or parameters at any location. (40 CFR 122.41(i)(4))

B. Transfer of Permits

1. Transfers by modification. Except as provided in paragraph 2 of this section, a permit may be transferred by the permittee to a new owner or operator only if this permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act. (40 CFR 122.61(a))

2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:

   a. The current permittee notifies DEP at least 30 days in advance of the proposed transfer date in paragraph 2.b. of this section; (40 CFR 122.61(b)(1))

   b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them; (40 CFR 122.61(b)(2))

   c. DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b. of this section; and (40 CFR 122.61(b)(3))

   d. The new permittee is in compliance with existing DEP issued permits, regulations, orders and schedules of compliance, or has demonstrated that any noncompliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedules set forth in the permit), consistent with 25 Pa. Code § 92a.51 (relating to schedules of compliance) and other appropriate DEP regulations. (25 Pa. Code § 92a.71)

3. In the event DEP does not approve transfer of this permit, the new owner or operator must submit a new permit application.

C. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege. (40 CFR 122.41(g))

D. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit. (40 CFR 122.41(b))

E. Other Laws

The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations.

IV. ANNUAL FEES

Permittees shall pay an annual fee in accordance with 25 Pa. Code § 92a.62. Annual fee amounts are specified in the following schedule and are due on each anniversary of the effective date of the most recent new or reissued permit. All flows identified in the schedule are annual average design flows. (25 Pa. Code § 92a. 62)

Minor IW Facility without ELG (Effluent Limitation Guideline)	$500
Minor IW Facility with ELG	$1,500
Major IW Facility < 250 MGD (million gallons per day)	$5,000
Major IW Facility ≥ 250 MGD	$25,000
IW Stormwater Individual Permit	$1,000
CAAP (Concentrated Aquatic Animal Production Facility)	$0

As of the effective date of this permit, the facility covered by the permit is classified in the following fee category: **Minor IW Facility without ELG**.

Invoices for annual fees will be mailed to permittees approximately three months prior to the due date. In the event that an invoice is not received, the permittee is nonetheless responsible for payment. Throughout a five year permit term, permittees will pay four annual fees followed by a permit renewal application fee in the last year of permit coverage. Permittees may contact DEP at 717-787-6744 with questions related to annual fees. The fees identified above are subject to change in accordance with 25 Pa. Code § 92a.62(e).

Payment for annual fees shall be remitted to DEP at the address below by the anniversary date. Checks should be made payable to the Commonwealth of Pennsylvania.

PA Department of Environmental Protection
Bureau of Clean Water
Re: Chapter 92a Annual Fee
P.O. Box 8466
Harrisburg, PA 17105-8466

PART C

I. OTHER REQUIREMENTS

A. The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights by easement or otherwise, providing for the satisfactory construction, operation, maintenance or replacement of all structures associated with the herein approved discharge in, along, or across private property, with full rights of ingress, egress and regress.

B. Collected screenings, slurries, sludges, and other solids shall be handled, recycled and/or disposed of in compliance with the Solid Waste Management Act (35 P.S. §§ 6018.101 – 6018.1003), 25 Pa. Code Chapters 287, 288, 289, 291, 295, 297, and 299 (relating to requirements for landfilling, impoundments, land application, composting, processing, and storage of residual waste), Chapters 261a, 262a, 263a, and 270a (related to identification of hazardous waste, requirements for generators and transporters, and hazardous waste, requirements for generators and transporters, and hazardous waste permit programs), federal regulation 40 CFR Part 257, The Clean Streams Law, and the Federal Clean Water Act and its amendments. Screenings collected at intake structures shall be collected and managed and not be returned to the receiving waters.

The permittee is responsible to obtain or assure that contracted agents have all necessary permits and approvals for the handling, storage, transport and disposal of solid waste materials generated as a result of wastewater treatment.

C. If the applicable standard or effluent guideline limitation relating to the application for Best Available Technology (BAT) Economically Achievable or to Best Conventional Technology (BCT) is developed by DEP or EPA for this type of industry, and if such standard or limitation is more stringent than the corresponding limitations of this permit (or if it controls pollutants not covered by this permit), DEP may modify or revoke and reissue the permit to conform with that standard or limitation.

D. The attention of the permittee is directed to the fact that effluent is discharged to a location with little or no assimilative capacity or dilution during critical periods. If the effluent creates a health hazard or nuisance, the permittee shall, upon notice from DEP, provide such additional treatment as may be required by DEP.

II. GROUNDWATER CLEANUP

A. If the applicable standard or effluent guideline limitation relating to the application for Best Available Technology Economically Achievable (BAT) or to Best Conventional Technology (BCT) is developed by the Department, or by EPA for this type of industry, and if such standard or limitation is more stringent than the corresponding conditions of this permit (or if it controls pollutants not covered by this permit), then the Department reserves the right to modify, or to revoke and reissue the permit to conform with that standard or limitation.

B. Sludges and other solids shall be handled and disposed of in compliance with 25 Pa. Code, Chapters 262, 263, and 264 (related to permits and requirements for landfilling and storage of hazardous sludge) and applicable federal regulations, the Federal Clean Water Act, RCRA and their amendments. The permittee is responsible to obtain or assure that contracted agents have all necessary permits and approvals for the handling, storage, transport and disposal of solid waste materials generated as a result of wastewater treatment.

C. The permittee shall monitor the quality of the groundwater system operation as follows:

1. Quarterly analysis for Tetrachloroethylene, 1-1-1 Trichloroethane, and Trichloroethylene at Monitoring Wells 4 and 6 having no free products. The quarterly measurement of the water level and pH shall also be conducted at Monitoring Wells 4 and 6.

This information shall be submitted to the Environmental Cleanup Program on a quarterly basis. In addition, the Groundwater Monitoring Data Report form (3800-FM-BCW0443) shall be submitted to DEP's Clean Water Program on a quarterly basis, as an attachment to the appropriate DMR.

If the permittee monitors any pollutant and/or performs any measurements more frequently than the permit requires, the results of this monitoring shall be included on the quarterly report.

D. Summary reports providing groundwater quality data from quarterly events, semiannual water table elevation maps, and a narrative discussion including tables and maps shall be submitted annually to the Environmental Cleanup Program, on the anniversary date of this permit. The narrative report shall evaluate the overall operation of the system demonstrating its effectiveness in containing and remediating the contaminant plume. If modification to the operation is proposed, details must be submitted in the report.

E. There shall be no discharge of stripper tower cleaning wastewaters to waters of the Commonwealth. Cleaning wastewaters shall be discharged to the sanitary sewer or hauled off site for proper disposal.

F. The cleanup operation shall continue until a minimum of one year's data of the untreated groundwater and all monitoring wells (samples taken at least quarterly) have documented a concentration that is protective of the environment. The cleanup operation shall not be considered terminated until the permittee further documents for a minimum of one year after pumping has ceased (samples taken quarterly) that a concentration of pollutants protective of the environment has been maintained in the untreated groundwater and all monitoring wells. Written approval to terminate must be received from DEP’s Clean Water Program prior to shut-down.

G. The permittee shall operate the treatment facilities approved herein on a continual basis. If accidental breakdown or normal periodic maintenance should cause cessation of operation, the permittee shall take satisfactory measures to ensure the treatment works are placed back in operation at the earliest possible time. The permittee shall orally report to the Department within 24 hours of an unanticipated temporary shutdown of the treatment facility that is longer than 24 hours in duration or at least 24 hours prior to an anticipated maintenance shutdown.

PERMIT NO. P-1991-061-4

DELAWARE RIVER BASIN COMMISSION

Southeastern Pennsylvania
Ground Water Protected Area

ABB Installation Products, Inc.
Groundwater Withdrawal
East Rockhill Township, Bucks County, Pennsylvania

PROCEEDINGS

This permit is issued in response to an Application submitted to the Delaware River Basin Commission (DRBC or Commission) on August 25, 2020 for renewal of an allocation of groundwater and review of a groundwater withdrawal associated with a remediation project (Application).

The Application was reviewed for a withdrawal permit under Section 10.3 of the *Delaware River Basin Compact*. The Bucks County Planning Commission has been notified of pending action on this permit.

A. DESCRIPTION

1. Purpose. The purpose of this permit is to renew the approval of an existing groundwater withdrawal to the permit holder's groundwater remediation system at the site from existing Wells MW-4 and MW-6S. A ServPro fire/water damage restoration business currently operates at the property. The total allocation of groundwater will remain 1.364 million gallons per month (mgm). Well MW-6S will replace Well PW-5 to enhance the removal of trichloroethylene (TCE) and alleviate treatment system maintenance due to high dissolved solids in Well PW-5.

2. Location. The project wells are completed in the Brunswick Formation and are located in the Three Mile Run Watershed in East Rockhill Township, Bucks County, Pennsylvania. East Branch Perkiomen Creek near the project site is designated by the Pennsylvania Department of Environmental Protection (PADEP) as Trout Stocking Fishes (TSF) and Migratory Fishes (MF).

Specific location information has been withheld for security reasons.

3. Area Served. The permit holder's wells will continue to only be used for groundwater remediation at the property as shown on a location map entitled "Former Thomas and Betts Ansley Facility" submitted with the Application. For the purpose of defining Area Served, the Application

is incorporated herein by reference consistent with conditions contained in the DECISION section of this docket.

4. **Design Criteria.** A ServPro fire/water damage restoration business currently operates at the property. Wells MW-4 and MW-6S are operated for the sole purpose of recovering groundwater contaminated with trichloroethylene (TCE) for over 30 years. Well MW-6S will replace Well PW-5 to enhance the removal of trichloroethylene (TCE) and alleviate treatment system maintenance due to high dissolved solids in Well PW-5. The permit holder plans to continue the groundwater remediation system. The permit holder operates the two wells with an average and maximum groundwater demand for this project are 0.010 million gallons per day (mgd) and 0.033 mgd, respectively. The permit holder projects an average and maximum water demand of 0.020 mgd and 0.044 mgd, respectively, by the year 2031. The current withdrawal rate of the two extraction wells is approximately 6.5 gallons per minute (0.290 mgm). The docket holder would like to keep their current allocation in case they need to increase withdrawals of their remediation system before their next docket renewal. The allocation of 1.364 mgm should be sufficient to meet the future demands.

Contaminated groundwater withdrawn from Wells MW-4 and MW-6S is treated by air stripping and then discharged to an unnamed tributary of the East Branch Perkiomen Creek. There are no known PFOS or PFOA in the groundwater at this property.

Potable water for the manufacturing facility is purchased from the Perkasie Regional Authority which was most recently approved by the Commission via Docket No. D-1997-012 CP-4 on November 14, 2018.

5. **Facilities.** The permit holder's existing wells have the following characteristics:

WELL NO.	DEPTH (FEET)	CASED DEPTH/ CASING DIAMETER	PUMP CAPACITY (GPM)	YEAR DRILLED
MW-4	470	33' / 6"	30	1967
MW-6S	138	30' / 6"	30	2008

The wells are metered.

The project facilities are above the 100-year flood elevation and are not located within the 100-year floodplain.

The water system is not presently interconnected with any other distribution system.

6. **Other.** Treated groundwater from the on-site wells is discharged to an unnamed tributary of the East Branch Perkiomen Creek. PADEP has most recently approved the project treatment facility's discharge under NPDES Permit No. PA0040321 on April 1, 2020.

B. FINDINGS

1. Ground Water Protected Area

The project is located within the Southeastern Pennsylvania Ground Water Protected Area delineated by the DRBC pursuant to *Compact* Section 10.2. The project is designed to conform to the requirements of the *Water Code (WC), Water Quality Regulations (WQR)* and *Ground Water Protected Area Regulations (GWPAR)* of the DRBC.

Review and analysis of the application pursuant to Section 6.D. of the *GWPAR* result in the following:

1. The withdrawal is consistent with the Commission's Comprehensive Plan and the policies and purposes of these regulations.

2. Opportunities to satisfy water requirements on a timely basis from existing available supplies and facilities have been explored and are being utilized.

3. The withdrawal, in conjunction with other withdrawals in the applicable ground water basin, should not exceed withdrawal limits of the ground water basin, aquifer or aquifer system.

4. The withdrawal should not significantly impair or reduce the flow of perennial streams in the area.

5. Existing ground and surface water withdrawals should not be adversely impacted, or will be otherwise assured of adequate supplies in accordance with the requirements of Section 10 of the *GWPAR*. There have been no reported complaints of well interference since the initial 2001 approval of this project. No adverse impact is anticipated due to continued operation of this project.

6. The withdrawal should not cause substantial, permanent adverse impact to the overlying environment.

7. The permit holder adopted and will implement conservation and management programs as required by Section 7 of the *GWPAR*.

The permit holder's wells are located in the Tohickon-Three Mile Run subbasin (GWPA Subbasin No. 44), where total net annual groundwater withdrawal (162 mgy) is less than the withdrawal limit set in Section 6.I of the *GWPAR* (968.32 mgy). The permit holder is requesting a monthly allocation of up to 1.364 mgm (16.368 mgy), a fraction of which will be returned to groundwater. However, even if no water from this project were returned to groundwater, the total net annual groundwater withdrawal from this subbasin would remain well below the withdrawal limits set in Section 6.I of the *GWPAR*. Therefore, the withdrawals from the permit holder's wells,

in conjunction with other withdrawals in the subbasin, are in accordance with the requirements of Section 6.I of the *GWPAR*.

The DRBC estimates that the project withdrawals, used for the purpose of groundwater remediation, result in a consumptive use of 0 percent of the total water use. The DRBC definition of consumptive use is defined in Article 5.5.1.D of the *Administrative Manual – Part III – Basin Regulations – Water Supply Charges*.

The project does not conflict with the Comprehensive Plan, and is designed to prevent substantial adverse impact to the water resources related environment, while sustaining the current and future water uses and development of the water resources of the Basin.

C. DECISION

Effective on the approval date for Permit No. P-1991-061-4 below, Permit No. P-1991-061-3 is terminated and replaced by Permit No. P-1991-061-4. The project and appurtenant facilities as described in in Section A.4. (Design Criteria) and A.5. (Facilities) are approved subject to the following conditions.

Monitoring and Reporting

1. Within 60 days (May 31, 2021) the docket holder shall provide written confirmation to the Commission that it has registered and reported with PADEP all surface and groundwater sources described in this docket in accordance with the Pennsylvania Regulations (Title 25 - Environmental Protection, [25 PA. CODE CH. 110], Water Resources Planning).

2. The project withdrawals shall be metered by means of an automatic continuous recording device, flow meter, or other method, and shall be measured to within 5 percent of actual flow. Meters or other methods of measurement shall be subject to approval and inspection by the PADEP as to the type, method, installation, maintenance, calibration, reading and accuracy. A record of daily withdrawals shall be maintained, and monthly totals shall be reported to the PADEP annually and shall be available at any time to the Commission if requested by the Executive Director.

Other Conditions

3. During any month, the combined withdrawal from all well sources shall not exceed 1.364 million gallons (16.368 mgy). No well shall be pumped above the maximum rate and monthly allocation as indicated below:

WELL NO.	MAXIMUM RATE (GPM)*	MONTHLY ALLOCATION (MGM)
MW-4	30	1.34

WELL NO.	MAXIMUM RATE (GPM)*	MONTHLY ALLOCATION (MGM)
MW-6S	30	1.34

*Based on a 24-Hour Average

4. The permit holder is responsible for timely submittal to the DRBC of a permit renewal application on the appropriate application form including the appropriate permit application filing fee (see 18 CFR 401.43) at least 6 months in advance of the permit expiration date set forth below. The permit holder will be subject to late filed renewal surcharges in the event of untimely submittal of its renewal application, whether or not DRBC issues a reminder notice in advance of the deadline or the permit holder receives such notice. In the event that a timely and complete application for renewal has been submitted and the DRBC is unable, through no fault of the permit holder, to reissue the permit before the expiration date below, the terms and conditions of the current permit will remain fully effective and enforceable against the permit holder pending the grant or denial of the application for permit approval.

5. The wells and operational records shall be available at all times for inspection by the DRBC.

6. The wells shall be operated at all times to comply with the requirements of the *WC* and *WQR* of the DRBC.

7. The wells shall be equipped with readily accessible capped ports and minimum ½ inch inner diameter (ID) drop pipes so that water levels may be measured under all conditions. Existing wells are to be similarly equipped, where possible, with readily accessible ports and ½ inch ID drop pipes as repairs or modifications are made at each existing well.

8. Each new water service connection shall include a water meter in accordance with the DRBC's Resolution No. 87-7 (Revised).

9. No water service connections shall be made to newly constructed premises with plumbing fixtures and fittings that do not comply with water conservation performance standards contained in Resolution No. 88-2 (Revision 2).

10. The permit holder shall implement to the satisfaction of the PADEP, a drought or other water supply emergency plan.

11. No new water service connections shall be made to premises connected to sewerage systems which are not in compliance with all applicable effluent limits contained in State permits and the *WQR* of the Commission.

12. Nothing herein shall be construed to exempt the docket holder from obtaining all necessary permits and/or approvals from other State, Federal or local government agencies having jurisdiction over this project.

13. The permit holder is permitted to provide the water approved in this docket to the areas included in Section A.3. Area Served of this permit. Any expansion beyond those included in Section A.3. Area Served is subject to DRBC review and approval in accordance with Section 3.8 of the *Compact*.

14. The permit holder shall be subject to applicable DRBC regulatory program fees, in accordance with duly adopted DRBC resolutions and/or regulations. (see 18 CFR 401.43).

15. This approval is transferable by request to the DRBC Executive Director provided that the project purpose and area served approved by the Commission in this permit will not be materially altered because of the change in project ownership. The request shall be submitted on the appropriate form and be accompanied by the appropriate fee (see 18 CFR 401.35).

16. The permit holder shall request a name change of the entity to which this approval is issued if the name of the entity to which this approval is issued changes its name. The request for name change shall be submitted on the appropriate form and be accompanied by the appropriate fee (see 18 CFR 401.35).

17. The issuance of this permit approval shall not create any private or proprietary rights in the water of the Basin, and the Commission reserves the rights to amend, alter or rescind any actions taken hereunder in order to insure the proper control, use and management of the water resources of the Basin.

18. If the monitoring required herein or any other relevant data or information demonstrates that the operation of this project is interfering with or otherwise impairing existing uses of ground or surface water, or if the permit holder receives a complaint from an existing ground or surface water user within the zone of influence of the withdrawal alleging such interference or impairment, the permit holder shall immediately notify the Executive Director, and unless excused by the Executive Director, shall investigate the demonstrated or alleged impacts. For purposes of this condition, notification shall mean either (a) electronic transmittal of written notice to the Executive Director via email (using addresses posted on the DRBC website); or (b) written notice to the Executive Director and a telephone call to the Project Review Section at 609-883-9500, ext. 216. (Oral notification must always be accompanied by immediate written notification directed to the Executive Director.) In addition, the permit holder shall provide written notice to all potentially affected water users of the permit holder's responsibilities under this condition. **Any well or surface water supply that is impaired as a result of the permit holder's project withdrawal shall be repaired, replaced or mitigated at the permit holder's expense.** The scope of the options to consider for repair, replacement and/or mitigation shall not be limited solely to those that are owned, operated, or controlled by the project sponsor. An investigation report and/or mitigation plan prepared and certified by a licensed professional engineer and/or a licensed professional geologist shall be submitted to the Executive Director as soon as practicable following notice of the demonstrated or alleged impairment consistent with this paragraph. The Executive Director shall make the final determination regarding the scope and sufficiency of the investigation and the extent of any mitigation measures that may be required. Where ground and surface waters are rendered unavailable, unusable, or unsuitable for the pre-existing use, the Executive Director may direct the permit holder to take interim actions to mitigate such impacts,

pending completion of the investigative report and any long-term repair, replacement or mitigation.

19. The Executive Director may modify or suspend this approval or any condition thereof, or require mitigating measures pending additional review, if in the Executive Director's judgment such modification or suspension is required to protect the water resources of the Basin.

20. Any person who objects to a permit decision by the Commission may request a hearing in accordance with Article 6 of the *Rules of Practice and Procedure*. In accordance with Section 15.1(p) of the *Delaware River Basin Compact*, cases and controversies arising under the *Compact* are reviewable in the United States district courts.

By the Executive Director: _____ **Date:** **03/31/2021**
Steven J. Tambini

Concur, State Commissioner: **Aneca Y. Atkinson** **Date:** **03/31/2021**
Aneca Y. Atkinson
Pennsylvania Department of Environmental Protection

Expiration Date: **March 31, 2031**

ATTACHMENT B

MW-7s Low-Flow Groundwater Sampling Data Sheet

LANGAN

LOW FLOW SAMPLING DATA SHEET

SITE:	Former Thomas & Betts (T&B) / Ansley Facility, Perkasie, PA	**CONSULTING FIRM:**	Langan Engineering & Environmental Services, Inc.
DATE:	1/7/2021	**Water Quality Meter:**	Horiba U-52, Serial #WFYDXT0Y
WEATHER:	Cool, clear - 42° F	**FIELD PERSONNEL:**	Mike Solt

MONITOR WELL #: MW-7S **WELL DEPTH:** 135 feet **SCREENED/OPEN INTERVAL:** 30 - 135 feet

WELL DIAMETER: 6 Inches

PID/FID READINGS (ppm): **BACKGROUND:** 0.0

BENEATH OUTER CAP: 0.0

BENEATH INNER CAP: 0.0

PUMP INTAKE DEPTH: 120 ft below TOC

DEPTH TO WATER BEFORE PUMP INSTALLATION : 43.67 ft below TOC

TIME	PURGING	SAMPLING	pH (standard units, s.u.)		SPECIFIC CONDUCTIVITY (µS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE (s.u.)*	READING	CHANGE (%)*	READING	CHANGE (mV)*	READING	CHANGE (%)*	READING	CHANGE (%)*	READING	CHANGE (%)*		
14:35	X		7.21	-	195	-	176	-	0.20	-	7.4	-	12.84	-	180	44.10
14:40	X		7.17	0.04	193	1%	173	3	0.11	45.00%	6.9	6.8%	12.89	0.39%	180	44.30
14:45	X		7.11	0.06	193	0%	175	2	0.06	45.45%	7.2	4.3%	12.82	0.54%	180	44.45
14:50	X		7.08	0.03	193	0%	175	0	0.07	16.67%	6.6	8.3%	12.79	0.23%	180	44.61
14:55		X														

COMMENTS:

14:14 - Bladder pump on. Begin purging MW-7s under low-flow conditions. Purge water appears to have a slightly yellow tint; no sheen or odors detected.

14:55 - Collect groundwater sample MW-7s_010721 and duplicate groundwater sample DUP-1_010721 for select chlorinated VOCs, 1,4-dioxane and lead. Samples on ice in cooler.

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

LANGAN

ATTACHMENT C

Laboratory Data Package:
January 2021 Groundwater Sampling Event

LANGAN

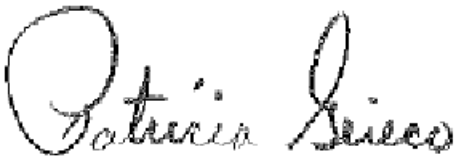
ANALYTICAL REPORT

Job Number: 460-226054-1

Job Description: Thomas & Betts Ansley Facility/Perkasie

For:
Langan Engineering & Environmental Srvcs
2700 Kelly Road
Suite 200
Warrington, PA 18976

Attention: Cortney Savidge



Approved for release.
Patricia Grieco
Senior Project Manager
1/14/2021 3:51 PM

Patricia Grieco, Senior Project Manager
777 New Durham Road, Edison, NJ, 08817
(732)593-2507
Patricia.Grieco@Eurofinset.com
01/14/2021

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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CASE NARRATIVE

Client: Langan Engineering & Environmental Srvcs

Project: Thomas & Betts Ansley Facility/Perkasie

Report Number: 460-226054-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 01/07/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)
Samples WW-7S-010721 (460-226054-1), DUP-1_010721 (460-226054-2), FB-1_010721 (460-226054-3) and Trip Blank (460-226054-4) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 01/09/2021.

No difficulties were encountered during the Volatiles analysis.

All quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC/MS) - SELECTED ION MODE (SIM)
Samples WW-7S-010721 (460-226054-1), DUP-1_010721 (460-226054-2), FB-1_010721 (460-226054-3) and Trip Blank (460-226054-4) were analyzed for volatile organic compounds (GC/MS) - Selected Ion Mode (SIM) in accordance with EPA SW-846 Method 8260D - Selected Ion Mode (SIM). The samples were analyzed on 01/08/2021.

No difficulties were encountered during the Volatiles analysis.

All quality control parameters were within the acceptance limits.

METALS
Samples WW-7S-010721 (460-226054-1), DUP-1_010721 (460-226054-2) and FB-1_010721 (460-226054-3) were analyzed for Metals in accordance with 6010D. The samples were prepared on 01/12/2021 and analyzed on 01/13/2021.

No difficulties were encountered during the Metals analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Langan Engineering & Environmental Srvcs
Job ID: 460-226054-1
Project/Site: Thomas & Betts Ansley Facility/Perkasie

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-226054-1	WW-7S-010721	Water	01/07/21 14:55	01/07/21 20:05	
460-226054-2	DUP-1_010721	Water	01/07/21 14:55	01/07/21 20:05	
460-226054-3	FB-1_010721	Water	01/07/21 14:40	01/07/21 20:05	
460-226054-4	Trip Blank	Water	01/07/21 14:55	01/07/21 20:05	

Detection Summary

Client: Langan Engineering & Environmental Srvcs
Job ID: 460-226054-1
Project/Site: Thomas & Betts Ansley Facility/Perkasie

Client Sample ID: WW-7S-010721
Lab Sample ID: 460-226054-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.9	J	10.0	2.4	ug/L	1		6010D	Total/NA

Client Sample ID: DUP-1_010721
Lab Sample ID: 460-226054-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.7	J	10.0	2.4	ug/L	1		6010D	Total/NA

Client Sample ID: FB-1_010721
Lab Sample ID: 460-226054-3

No Detections.

Client Sample ID: Trip Blank
Lab Sample ID: 460-226054-4

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Langan Engineering & Environmental Srvcs
Job ID: 460-226054-1
Project/Site: Thomas & Betts Ansley Facility/Perkasie

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL EDI
6010D	Metals (ICP)	SW846	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample ID: WW-7S-010721
Lab Sample ID: 460-226054-1

Date Collected: 01/07/21 14:55
Matrix: Water
Date Received: 01/07/21 20:05

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.33	U	0.40	0.33	ug/L			01/08/21 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*52 - 137*		*01/08/21 14:39*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/09/21 14:16	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/09/21 14:16	1
Trichloroethene (TCE)	0.31	U	1.0	0.31	ug/L			01/09/21 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 123*		*01/09/21 14:16*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*01/09/21 14:16*	*1*
4-Bromofluorobenzene	*96*		*76 - 120*		*01/09/21 14:16*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*01/09/21 14:16*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.9**	**J**	10.0	2.4	ug/L		01/12/21 11:18	01/13/21 14:16	1

Client Sample ID: DUP-1_010721
Lab Sample ID: 460-226054-2

Date Collected: 01/07/21 14:55
Matrix: Water
Date Received: 01/07/21 20:05

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.33	U	0.40	0.33	ug/L			01/08/21 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*52 - 137*		*01/08/21 15:01*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/09/21 14:41	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/09/21 14:41	1
Trichloroethene (TCE)	0.31	U	1.0	0.31	ug/L			01/09/21 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 123*		*01/09/21 14:41*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*01/09/21 14:41*	*1*
4-Bromofluorobenzene	*97*		*76 - 120*		*01/09/21 14:41*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*01/09/21 14:41*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**7.7**	**J**	10.0	2.4	ug/L		01/12/21 11:18	01/13/21 14:20	1

Client Sample ID: FB-1_010721
Lab Sample ID: 460-226054-3

Date Collected: 01/07/21 14:40
Matrix: Water
Date Received: 01/07/21 20:05

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.33	U	0.40	0.33	ug/L			01/08/21 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*52 - 137*		*01/08/21 14:17*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/09/21 13:02	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/09/21 13:02	1
Trichloroethene (TCE)	0.31	U	1.0	0.31	ug/L			01/09/21 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*75 - 123*		*01/09/21 13:02*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*01/09/21 13:02*	*1*
4-Bromofluorobenzene	*94*		*76 - 120*		*01/09/21 13:02*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 124*		*01/09/21 13:02*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.4	U	10.0	2.4	ug/L		01/12/21 11:18	01/13/21 14:24	1

Client Sample ID: Trip Blank
Lab Sample ID: 460-226054-4

Date Collected: 01/07/21 14:55
Matrix: Water
Date Received: 01/07/21 20:05

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.33	U	0.40	0.33	ug/L			01/08/21 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*52 - 137*		*01/08/21 13:55*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/09/21 12:38	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/09/21 12:38	1
Trichloroethene (TCE)	0.31	U	1.0	0.31	ug/L			01/09/21 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*75 - 123*		*01/09/21 12:38*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*01/09/21 12:38*	*1*
4-Bromofluorobenzene	*91*		*76 - 120*		*01/09/21 12:38*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*01/09/21 12:38*	*1*

Surrogate Summary

Client: Langan Engineering & Environmental Srvcs
Job ID: 460-226054-1
Project/Site: Thomas & Betts Ansley Facility/Perkasie

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-123)	(80-120)	(76-120)	(77-124)
460-226054-1	WW-7S-010721	112	103	96	103
460-226054-1 MS	WW-7S-010721	111	102	103	104
460-226054-1 MSD	WW-7S-010721	109	101	101	108
460-226054-2	DUP-1_010721	111	105	97	104
460-226054-3	FB-1_010721	116	104	94	105
460-226054-4	Trip Blank	116	101	91	104
LCS 460-751761/4	Lab Control Sample	108	101	96	101
MB 460-751761/9	Method Blank	119	108	94	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB
Lab Sample ID	Client Sample ID	(52-137)
460-226054-1	WW-7S-010721	88
460-226054-2	DUP-1_010721	85
460-226054-3	FB-1_010721	88
460-226054-4	Trip Blank	89
LCS 460-751577/3	Lab Control Sample	102
LCSD 460-751577/5	Lab Control Sample Dup	86
MB 460-751577/8	Method Blank	93

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-751761/9
Matrix: Water
Analysis Batch: 751761

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.26	U	1.0	0.26	ug/L			01/09/21 12:13	1
cis-1,2-Dichloroethene	0.22	U	1.0	0.22	ug/L			01/09/21 12:13	1
Trichloroethene (TCE)	0.31	U	1.0	0.31	ug/L			01/09/21 12:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*75 - 123*		*01/09/21 12:13*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*01/09/21 12:13*	*1*
4-Bromofluorobenzene	*94*		*76 - 120*		*01/09/21 12:13*	*1*
Dibromofluoromethane (Surr)	*104*		*77 - 124*		*01/09/21 12:13*	*1*

Lab Sample ID: LCS 460-751761/4
Matrix: Water
Analysis Batch: 751761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethene			20.0	22.0		ug/L		110	68 - 133		
cis-1,2-Dichloroethene			20.0	20.7		ug/L		104	78 - 121		
Trichloroethene (TCE)			20.0	19.9		ug/L		100	71 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene	*96*		*76 - 120*
Dibromofluoromethane (Surr)	*101*		*77 - 124*

Lab Sample ID: 460-226054-1 MS
Matrix: Water
Analysis Batch: 751761

Client Sample ID: WW-7S-010721
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethene	0.26	U	200	209		ug/L		104	68 - 133		
cis-1,2-Dichloroethene	0.22	U	200	213		ug/L		107	78 - 121		
Trichloroethene (TCE)	0.31	U	200	200		ug/L		100	71 - 121		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene	*103*		*76 - 120*
Dibromofluoromethane (Surr)	*104*		*77 - 124*

Lab Sample ID: 460-226054-1 MSD
Matrix: Water
Analysis Batch: 751761

Client Sample ID: WW-7S-010721
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	0.26	U	200	194		ug/L		97	68 - 133	7	30
cis-1,2-Dichloroethene	0.22	U	200	195		ug/L		98	78 - 121	9	30
Trichloroethene (TCE)	0.31	U	200	188		ug/L		94	71 - 121	6	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene	*101*		*76 - 120*
Dibromofluoromethane (Surr)	*108*		*77 - 124*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-751577/8
Matrix: Water
Analysis Batch: 751577

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.33	U	0.40	0.33	ug/L			01/08/21 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*93*		*52 - 137*		*01/08/21 10:38*	*1*

Lab Sample ID: LCS 460-751577/3
Matrix: Water
Analysis Batch: 751577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			5.00	5.24		ug/L		105	64 - 138		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*102*		*52 - 137*

Lab Sample ID: LCSD 460-751577/5
Matrix: Water
Analysis Batch: 751577

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			5.00	5.15		ug/L		103	64 - 138	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*86*		*52 - 137*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 460-752246/1-A
Matrix: Water
Analysis Batch: 752508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 752246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.4	U	10.0	2.4	ug/L		01/12/21 11:18	01/13/21 13:17	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 460-752246/2-A
Matrix: Water
Analysis Batch: 752508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 752246

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			500	485.8		ug/L		97	80 - 120		

Lab Sample ID: 460-225686-I-20-C MS
Matrix: Water
Analysis Batch: 752508

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 752246

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	2.4	U	500	521.2		ug/L		104	75 - 125		

Lab Sample ID: 460-225686-I-20-B DU
Matrix: Water
Analysis Batch: 752508

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 752246

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	2.4	U		2.4	U	ug/L				NC	20

Lab Sample ID: LRC 460-752508/14
Matrix: Water
Analysis Batch: 752508

Client Sample ID: Lab Control Sample

Analyte			Spike Added	LRC Result	LRC Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			50000	50450		ug/L		101	90 - 110		

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 751577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-226054-1	WW-7S-010721	Total/NA	Water	8260D SIM	
460-226054-2	DUP-1_010721	Total/NA	Water	8260D SIM	
460-226054-3	FB-1_010721	Total/NA	Water	8260D SIM	
460-226054-4	Trip Blank	Total/NA	Water	8260D SIM	
MB 460-751577/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 460-751577/3	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 460-751577/5	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

Analysis Batch: 751761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-226054-1	WW-7S-010721	Total/NA	Water	8260D	
460-226054-2	DUP-1_010721	Total/NA	Water	8260D	
460-226054-3	FB-1_010721	Total/NA	Water	8260D	
460-226054-4	Trip Blank	Total/NA	Water	8260D	
MB 460-751761/9	Method Blank	Total/NA	Water	8260D	
LCS 460-751761/4	Lab Control Sample	Total/NA	Water	8260D	
460-226054-1 MS	WW-7S-010721	Total/NA	Water	8260D	
460-226054-1 MSD	WW-7S-010721	Total/NA	Water	8260D	

Metals

Prep Batch: 752246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-226054-1	WW-7S-010721	Total/NA	Water	3010A	
460-226054-2	DUP-1_010721	Total/NA	Water	3010A	
460-226054-3	FB-1_010721	Total/NA	Water	3010A	
MB 460-752246/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-752246/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-225686-I-20-C MS	Matrix Spike	Total/NA	Water	3010A	
460-225686-I-20-B DU	Duplicate	Total/NA	Water	3010A	

Analysis Batch: 752508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-226054-1	WW-7S-010721	Total/NA	Water	6010D	752246
460-226054-2	DUP-1_010721	Total/NA	Water	6010D	752246
460-226054-3	FB-1_010721	Total/NA	Water	6010D	752246
MB 460-752246/1-A	Method Blank	Total/NA	Water	6010D	752246
LCS 460-752246/2-A	Lab Control Sample	Total/NA	Water	6010D	752246
LRC 460-752508/14	Lab Control Sample		Water	6010D	
LRC 460-752508/15	Lab Control Sample		Water	6010D	
460-225686-I-20-C MS	Matrix Spike	Total/NA	Water	6010D	752246
460-225686-I-20-B DU	Duplicate	Total/NA	Water	6010D	752246

Lab Chronicle

Client: Langan Engineering & Environmental Srvcs
Job ID: 460-226054-1
Project/Site: Thomas & Betts Ansley Facility/Perkasie

Client Sample ID: WW-7S-010721
Lab Sample ID: 460-226054-1
Date Collected: 01/07/21 14:55
Matrix: Water
Date Received: 01/07/21 20:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	751761	01/09/21 14:16	MZS	TAL EDI
Total/NA	Analysis	8260D SIM		1	751577	01/08/21 14:39	MZS	TAL EDI
Total/NA	Prep	3010A			752246	01/12/21 11:18	IBS	TAL EDI
Total/NA	Analysis	6010D		1	752508	01/13/21 14:16	YZH	TAL EDI

Client Sample ID: DUP-1_010721
Lab Sample ID: 460-226054-2
Date Collected: 01/07/21 14:55
Matrix: Water
Date Received: 01/07/21 20:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	751761	01/09/21 14:41	MZS	TAL EDI
Total/NA	Analysis	8260D SIM		1	751577	01/08/21 15:01	MZS	TAL EDI
Total/NA	Prep	3010A			752246	01/12/21 11:18	IBS	TAL EDI
Total/NA	Analysis	6010D		1	752508	01/13/21 14:20	YZH	TAL EDI

Client Sample ID: FB-1_010721
Lab Sample ID: 460-226054-3
Date Collected: 01/07/21 14:40
Matrix: Water
Date Received: 01/07/21 20:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	751761	01/09/21 13:02	MZS	TAL EDI
Total/NA	Analysis	8260D SIM		1	751577	01/08/21 14:17	MZS	TAL EDI
Total/NA	Prep	3010A			752246	01/12/21 11:18	IBS	TAL EDI
Total/NA	Analysis	6010D		1	752508	01/13/21 14:24	YZH	TAL EDI

Client Sample ID: Trip Blank
Lab Sample ID: 460-226054-4
Date Collected: 01/07/21 14:55
Matrix: Water
Date Received: 01/07/21 20:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	751761	01/09/21 12:38	MZS	TAL EDI
Total/NA	Analysis	8260D SIM		1	751577	01/08/21 13:55	MZS	TAL EDI

Laboratory References:
TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Langan Engineering & Environmental Srvcs
Job ID: 460-226054-1
Project/Site: Thomas & Betts Ansley Facility/Perkasie

Laboratory: Eurofins TestAmerica, Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	68-00522	02-28-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260D SIM		Water	1,4-Dioxane

8260D

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-VMS ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
WW-7S-010721	460-226054-1	103	112	103	96
DUP-1_010721	460-226054-2	104	111	105	97
FB-1_010721	460-226054-3	105	116	104	94
Trip Blank	460-226054-4	104	116	101	91
	MB 460-751761/9	104	119	108	94
	LCS 460-751761/4	101	108	101	96
WW-7S-010721 MS	460-226054-1 MS	104	111	102	103
WW-7S-010721 MSD	460-226054-1 MSD	108	109	101	101

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	77-124
DCA = 1,2-Dichloroethane-d4 (Surr)	75-123
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	76-120

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E21537.D

Lab ID: LCS 460-751761/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	20.0	22.0	110	68-133	
cis-1,2-Dichloroethene	20.0	20.7	104	78-121	
Trichloroethene (TCE)	20.0	19.9	100	71-121	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E21554.D

Lab ID: 460-226054-1 MS Client ID: WW-7S-010721 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1-Dichloroethene	200	0.26 U	209	104	68-133	
cis-1,2-Dichloroethene	200	0.22 U	213	107	78-121	
Trichloroethene (TCE)	200	0.31 U	200	100	71-121	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E21555.D

Lab ID: 460-226054-1 MSD Client ID: WW-7S-010721 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethene	200	194	97	7	30	68-133	
cis-1,2-Dichloroethene	200	195	98	9	30	78-121	
Trichloroethene (TCE)	200	188	94	6	30	71-121	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab File ID: E21542.D Lab Sample ID: MB 460-751761/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS5 Date Analyzed: 01/09/2021 12:13

GC Column: Rtx-VMS ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-751761/4	E21537.D	01/09/2021 10:10
Trip Blank	460-226054-4	E21543.D	01/09/2021 12:38
FB-1_010721	460-226054-3	E21544.D	01/09/2021 13:02
WW-7S-010721	460-226054-1	E21547.D	01/09/2021 14:16
DUP-1_010721	460-226054-2	E21548.D	01/09/2021 14:41
WW-7S-010721 MS	460-226054-1 MS	E21554.D	01/09/2021 17:08
WW-7S-010721 MSD	460-226054-1 MSD	E21555.D	01/09/2021 17:33

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab File ID: E21518.D BFB Injection Date: 01/07/2021

Instrument ID: CVOAMS5 BFB Injection Time: 20:31

Analysis Batch No.: 751537

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	119.6
96	5 - 9% of m/z 95	6.1
173	Less than 2% of m/z 174	1.4
174	50 - 200% of m/z 95	83.6
175	5 - 9% of m/z 174	8.3
176	95 -105% of m/z 174	99.3
177	5 - 10% of m/z 176	6.4

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD7 460-751537/3	E21520.D	01/07/2021	21:20
	STD1 460-751537/4	E21521.D	01/07/2021	21:45
	STD5 460-751537/5	E21522.D	01/07/2021	22:09
	STD20 460-751537/6	E21523.D	01/07/2021	22:34
	STD50 460-751537/7	E21524.D	01/07/2021	22:59
	STD200 460-751537/8	E21525.D	01/07/2021	23:23
	STD500 460-751537/9	E21526.D	01/07/2021	23:48
	ICV 460-751537/15	E21532.D	01/08/2021	2:15

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab File ID: E21534.D BFB Injection Date: 01/09/2021

Instrument ID: CVOAMS5 BFB Injection Time: 08:53

Analysis Batch No.: 751761

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	119.2
96	5 - 9% of m/z 95	6.5
173	Less than 2% of m/z 174	1.5
174	50 - 200% of m/z 95	83.9
175	5 - 9% of m/z 174	7.6
176	95 -105% of m/z 174	95.7
177	5 - 10% of m/z 176	7.2

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-751761/3	E21536.D	01/09/2021	9:46
	LCS 460-751761/4	E21537.D	01/09/2021	10:10
	MB 460-751761/9	E21542.D	01/09/2021	12:13
Trip Blank	460-226054-4	E21543.D	01/09/2021	12:38
FB-1_010721	460-226054-3	E21544.D	01/09/2021	13:02
WW-7S-010721	460-226054-1	E21547.D	01/09/2021	14:16
DUP-1_010721	460-226054-2	E21548.D	01/09/2021	14:41
WW-7S-010721 MS	460-226054-1 MS	E21554.D	01/09/2021	17:08
WW-7S-010721 MSD	460-226054-1 MSD	E21555.D	01/09/2021	17:33

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Sample No.: STD20 460-751537/6 Date Analyzed: 01/07/2021 22:34

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm)

Lab File ID (Standard): E21523.D Heated Purge: (Y/N) N

Calibration ID: 83456

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		137737	1.90	188117	2.90	486595	3.46
UPPER LIMIT		275474	2.40	376234	3.40	973190	3.96
LOWER LIMIT		68869	1.40	94059	2.40	243298	2.96
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-751537/15		165705	1.90	235803	2.90	555415	3.46

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Sample No.: STD20 460-751537/6 Date Analyzed: 01/07/2021 22:34

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm)

Lab File ID (Standard): E21523.D Heated Purge: (Y/N) N

Calibration ID: 83456

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		18815	4.33	370241	6.82	159922	10.34
UPPER LIMIT		37630	4.83	740482	7.32	319844	10.84
LOWER LIMIT		9408	3.83	185121	6.32	79961	9.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-751537/15		21650	4.33	411533	6.82	168132	10.34

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Sample No.: CCVIS 460-751761/3 Date Analyzed: 01/09/2021 09:46

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm)

Lab File ID (Standard): E21536.D Heated Purge: (Y/N) N

Calibration ID: 83456

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		155429	1.90	225954	2.90	546458	3.46
UPPER LIMIT		310858	2.40	451908	3.40	1092916	3.96
LOWER LIMIT		77715	1.40	112977	2.40	273229	2.96
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-751761/4		158383	1.90	230575	2.90	535828	3.46
MB 460-751761/9		147059	1.90	215437	2.90	503432	3.46
460-226054-4	Trip Blank	149460	1.90	207757	2.90	498232	3.46
460-226054-3	FB-1_010721	145625	1.90	204010	2.90	496514	3.46
460-226054-1	WW-7S-010721	133642	1.90	190968	2.90	478366	3.46
460-226054-2	DUP-1_010721	129258	1.90	181543	2.90	464509	3.46
460-226054-1 MS	WW-7S-010721 MS	118913	1.90	162563	2.90	440770	3.46
460-226054-1 MSD	WW-7S-010721 MSD	122940	1.90	169525	2.90	442488	3.46

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Sample No.: CCVIS 460-751761/3 Date Analyzed: 01/09/2021 09:46

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm)

Lab File ID (Standard): E21536.D Heated Purge: (Y/N) N

Calibration ID: 83456

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		20789	4.33	399286	6.82	167351	10.34
UPPER LIMIT		41578	4.83	798572	7.32	334702	10.84
LOWER LIMIT		10395	3.83	199643	6.32	83676	9.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-751761/4		19016	4.33	400454	6.82	167760	10.34
MB 460-751761/9		18311	4.33	367449	6.82	148543	10.34
460-226054-4	Trip Blank	18760	4.33	373692	6.82	144592	10.34
460-226054-3	FB-1_010721	17456	4.33	361732	6.82	140687	10.34
460-226054-1	WW-7S-010721	17435	4.34	355180	6.82	140352	10.34
460-226054-2	DUP-1_010721	16147	4.33	347473	6.82	140258	10.34
460-226054-1 MS	WW-7S-010721 MS	17107	4.33	347237	6.82	147864	10.34
460-226054-1 MSD	WW-7S-010721 MSD	17257	4.33	350047	6.82	148721	10.34

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: WW-7S-010721 Lab Sample ID: 460-226054-1

Matrix: Water Lab File ID: E21547.D

Analysis Method: 8260D Date Collected: 01/07/2021 14:55

Sample wt/vol: 5(mL) Date Analyzed: 01/09/2021 14:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751761 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-01-6	Trichloroethene (TCE)	0.31	U	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene	96		76-120
1868-53-7	Dibromofluoromethane (Surr)	103		77-124

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21547.D
Lims ID: 460-226054-A-1
Client ID: WW-7S-010721
Sample Type: Client
Inject. Date: 09-Jan-2021 14:16:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-226054-A-1
Misc. Info.: 460-0122633-014
Operator ID: Instrument ID: CVOAMS5

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 10-Jan-2021 12:37:34 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: boykink Date: 10-Jan-2021 12:28:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.674	0.665	0.009	31	790	NC	
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	99	133642	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	97	121625	51.7	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	99	190968	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	95	135291	55.8	
65 t-Amyl alcohol	59	3.472	3.422	0.050	18	76	NC	
* 66 Fluorobenzene	96	3.463	3.464	-0.001	99	478366	50.0	
* 76 1,4-Dioxane-d8	96	4.336	4.328	0.008	93	17435	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.969	4.970	-0.001	99	442859	51.3	
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	86	355180	50.0	
$ 107 4-Bromofluorobenzene	174	8.582	8.582	0.000	92	119536	47.8	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	95	140352	50.0	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

8260ISNEW_00140	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00214	Amount Added:	1.00	Units: uL	Run Reagent

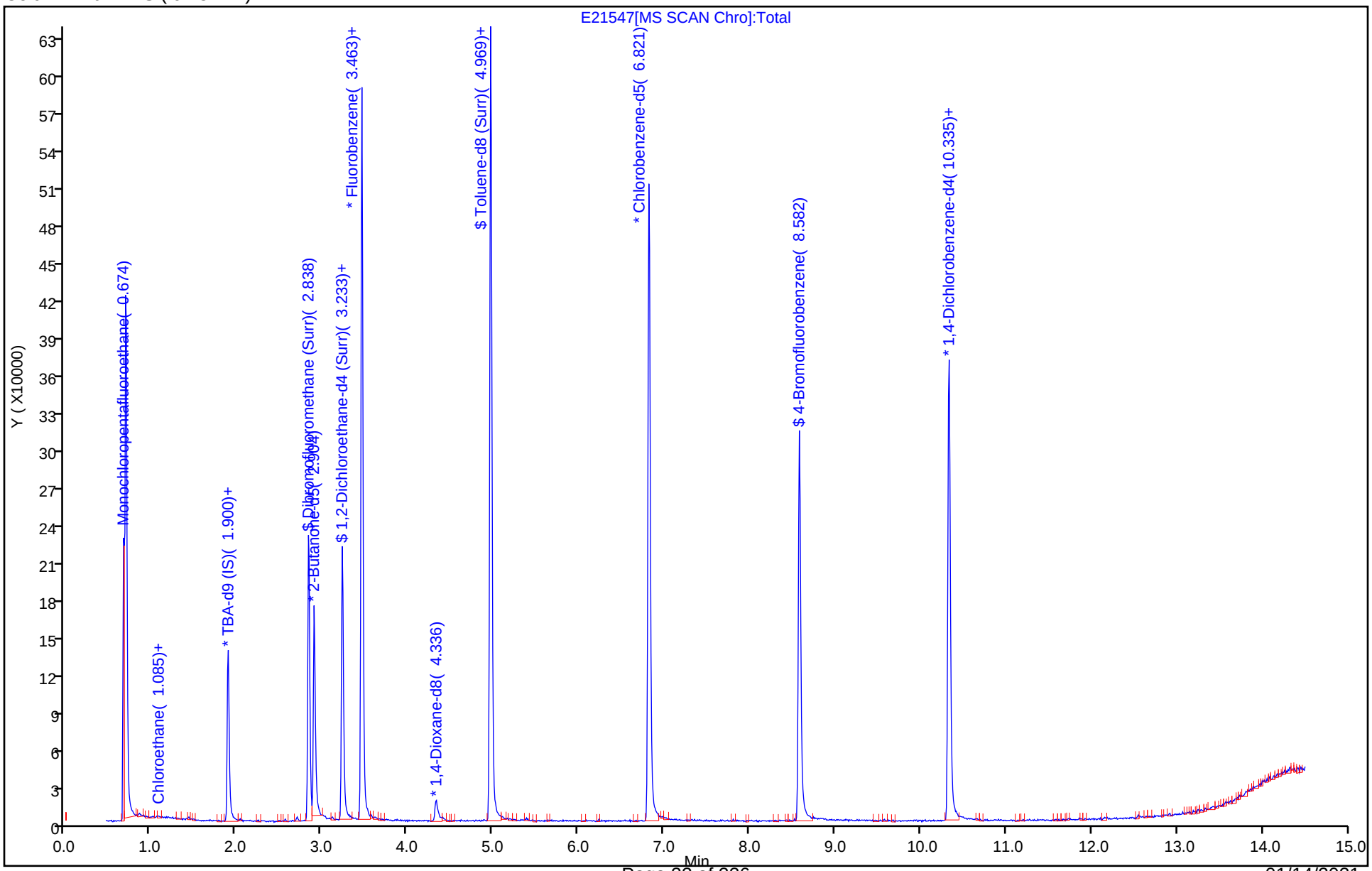
Report Date: 10-Jan-2021 17:08:08 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21547.D

Injection Date:	09-Jan-2021 14:16:30	Instrument ID:	CVOAMS5	Operator ID:	
Lims ID:	460-226054-A-1	Lab Sample ID:	460-226054-1	Worklist Smp#:	14
Client ID:	WW-7S-010721				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260W_5	Limit Group:	VOA - 8260D Water and Solid		

Column: Rtx-VMS (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: DUP-1_010721 Lab Sample ID: 460-226054-2

Matrix: Water Lab File ID: E21548.D

Analysis Method: 8260D Date Collected: 01/07/2021 14:55

Sample wt/vol: 5(mL) Date Analyzed: 01/09/2021 14:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751761 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-01-6	Trichloroethene (TCE)	0.31	U	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		75-123
2037-26-5	Toluene-d8 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene	97		76-120
1868-53-7	Dibromofluoromethane (Surr)	104		77-124

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21548.D
Lims ID: 460-226054-A-2
Client ID: DUP-1_010721
Sample Type: Client
Inject. Date: 09-Jan-2021 14:41:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-226054-A-2
Misc. Info.: 460-0122633-015
Operator ID: Instrument ID: CVOAMS5

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 10-Jan-2021 12:28:22 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1661

First Level Reviewer: boykink Date: 10-Jan-2021 12:28:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	99	129258	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	98	118657	51.9	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	99	181543	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	95	131208	55.7	
* 66 Fluorobenzene	96	3.463	3.464	-0.001	99	464509	50.0	
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	94	16147	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.969	4.970	-0.001	99	441819	52.3	
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	86	347473	50.0	
$ 107 4-Bromofluorobenzene	174	8.582	8.582	0.000	93	119114	48.7	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	95	140258	50.0	

Reagents:

8260ISNEW_00140 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00214 Amount Added: 1.00 Units: uL Run Reagent

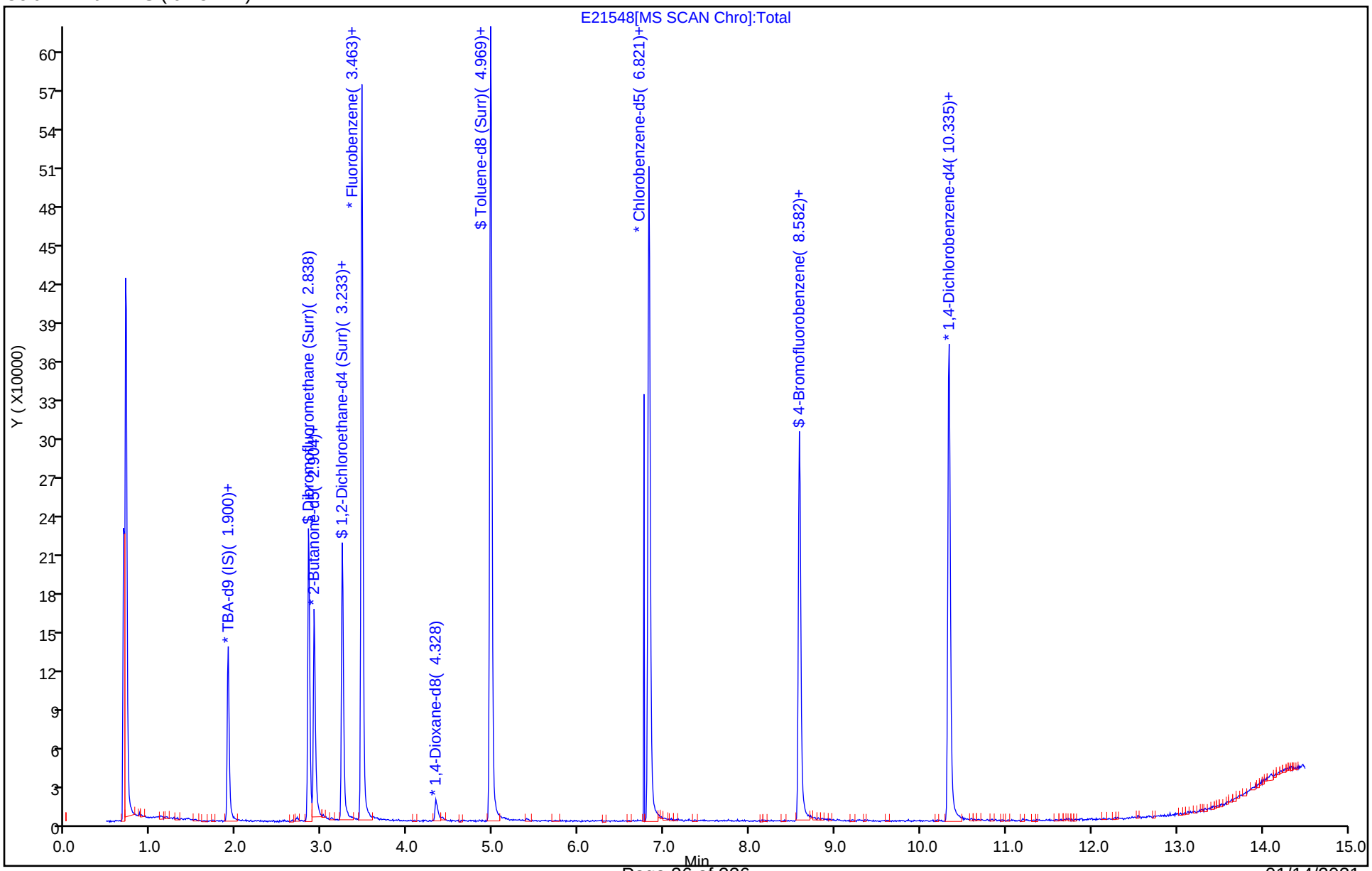
Report Date: 10-Jan-2021 12:28:37 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21548.D

Injection Date:	09-Jan-2021 14:41:30	Instrument ID:	CVOAMS5	Operator ID:	
Lims ID:	460-226054-A-2	Lab Sample ID:	460-226054-2	Worklist Smp#:	15
Client ID:	DUP-1_010721				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260W_5	Limit Group:	VOA - 8260D Water and Solid		

Column: Rtx-VMS (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: FB-1_010721 Lab Sample ID: 460-226054-3

Matrix: Water Lab File ID: E21544.D

Analysis Method: 8260D Date Collected: 01/07/2021 14:40

Sample wt/vol: 5(mL) Date Analyzed: 01/09/2021 13:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751761 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-01-6	Trichloroethene (TCE)	0.31	U	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		75-123
2037-26-5	Toluene-d8 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene	94		76-120
1868-53-7	Dibromofluoromethane (Surr)	105		77-124

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21544.D
Lims ID: 460-226054-A-3
Client ID: FB-1_010721
Sample Type: Client
Inject. Date: 09-Jan-2021 13:02:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-226054-A-3
Misc. Info.: 460-0122633-011
Operator ID: Instrument ID: CVOAMS5

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 09-Jan-2021 14:02:50 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1634

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	99	145625	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	97	127791	52.3	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	99	204010	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	96	145581	57.8	
* 66 Fluorobenzene	96	3.464	3.464	0.000	98	496514	50.0	
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	95	17456	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.970	4.970	0.000	99	455949	51.8	
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	87	361732	50.0	
$ 107 4-Bromofluorobenzene	174	8.582	8.582	0.000	92	119360	46.9	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	95	140687	50.0	

Reagents:

8260ISNEW_00140 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00214 Amount Added: 1.00 Units: uL Run Reagent

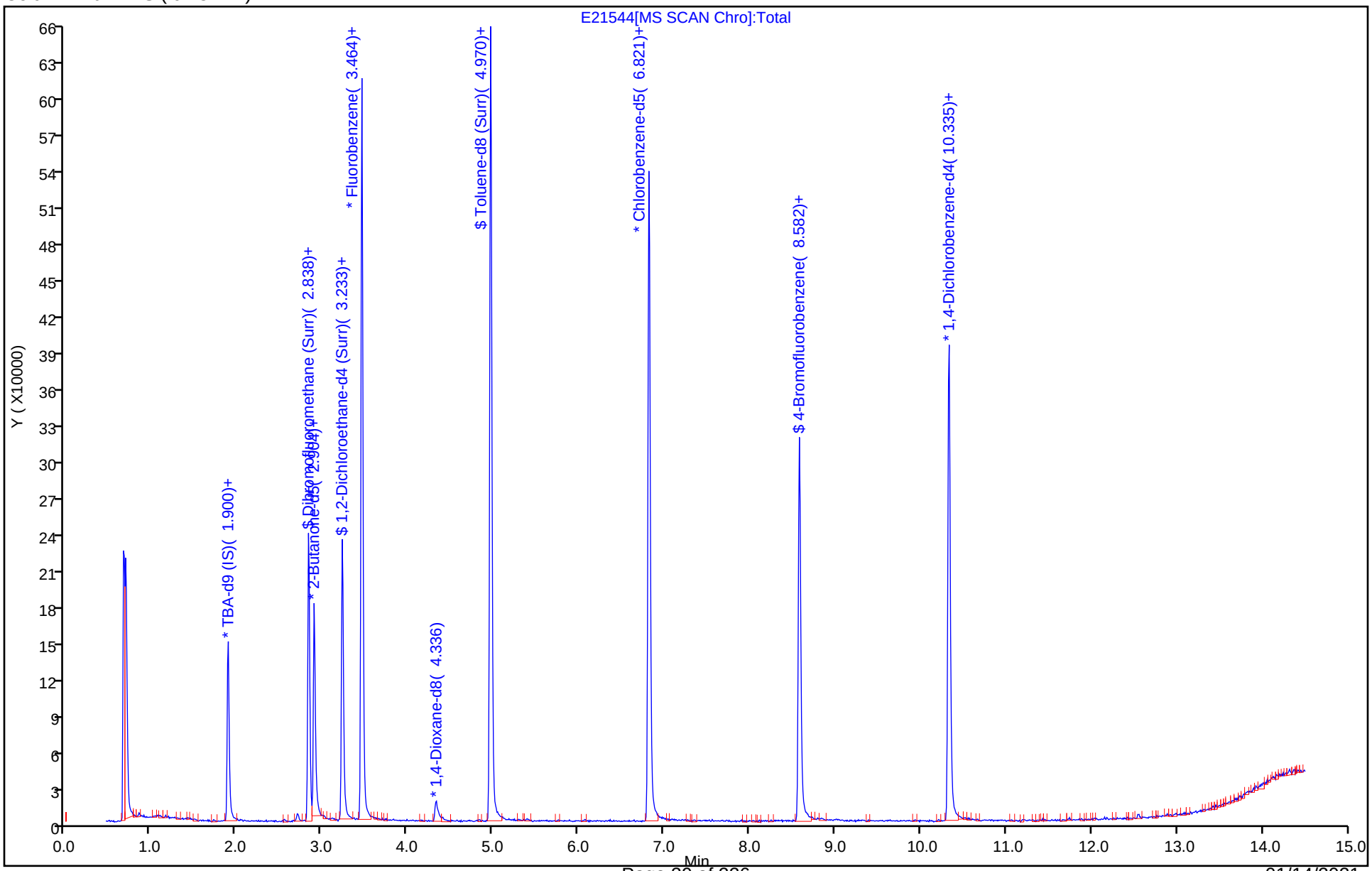
Report Date: 09-Jan-2021 14:02:59 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21544.D

Injection Date:	09-Jan-2021 13:02:30	Instrument ID:	CVOAMS5	Operator ID:	
Lims ID:	460-226054-A-3	Lab Sample ID:	460-226054-3	Worklist Smp#:	11
Client ID:	FB-1_010721				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260W_5	Limit Group:	VOA - 8260D Water and Solid		

Column: Rtx-VMS (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: Trip Blank Lab Sample ID: 460-226054-4

Matrix: Water Lab File ID: E21543.D

Analysis Method: 8260D Date Collected: 01/07/2021 14:55

Sample wt/vol: 5(mL) Date Analyzed: 01/09/2021 12:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751761 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-01-6	Trichloroethene (TCE)	0.31	U	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene	91		76-120
1868-53-7	Dibromofluoromethane (Surr)	104		77-124

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21543.D
Lims ID: 460-226054-A-4
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 09-Jan-2021 12:38:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-226054-A-4
Misc. Info.: 460-0122633-010
Operator ID: Instrument ID: CVOAMS5

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 09-Jan-2021 13:17:55 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: starzecm Date: 09-Jan-2021 13:18:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	99	149460	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	97	127272	51.9	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	99	207757	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	95	146154	57.8	
* 66 Fluorobenzene	96	3.463	3.464	-0.001	99	498232	50.0	
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	95	18760	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.969	4.970	-0.001	99	458399	50.5	
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	86	373692	50.0	
$ 107 4-Bromofluorobenzene	174	8.582	8.582	0.000	90	119465	45.4	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	95	144592	50.0	

Reagents:

8260ISNEW_00140 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00214 Amount Added: 1.00 Units: uL Run Reagent

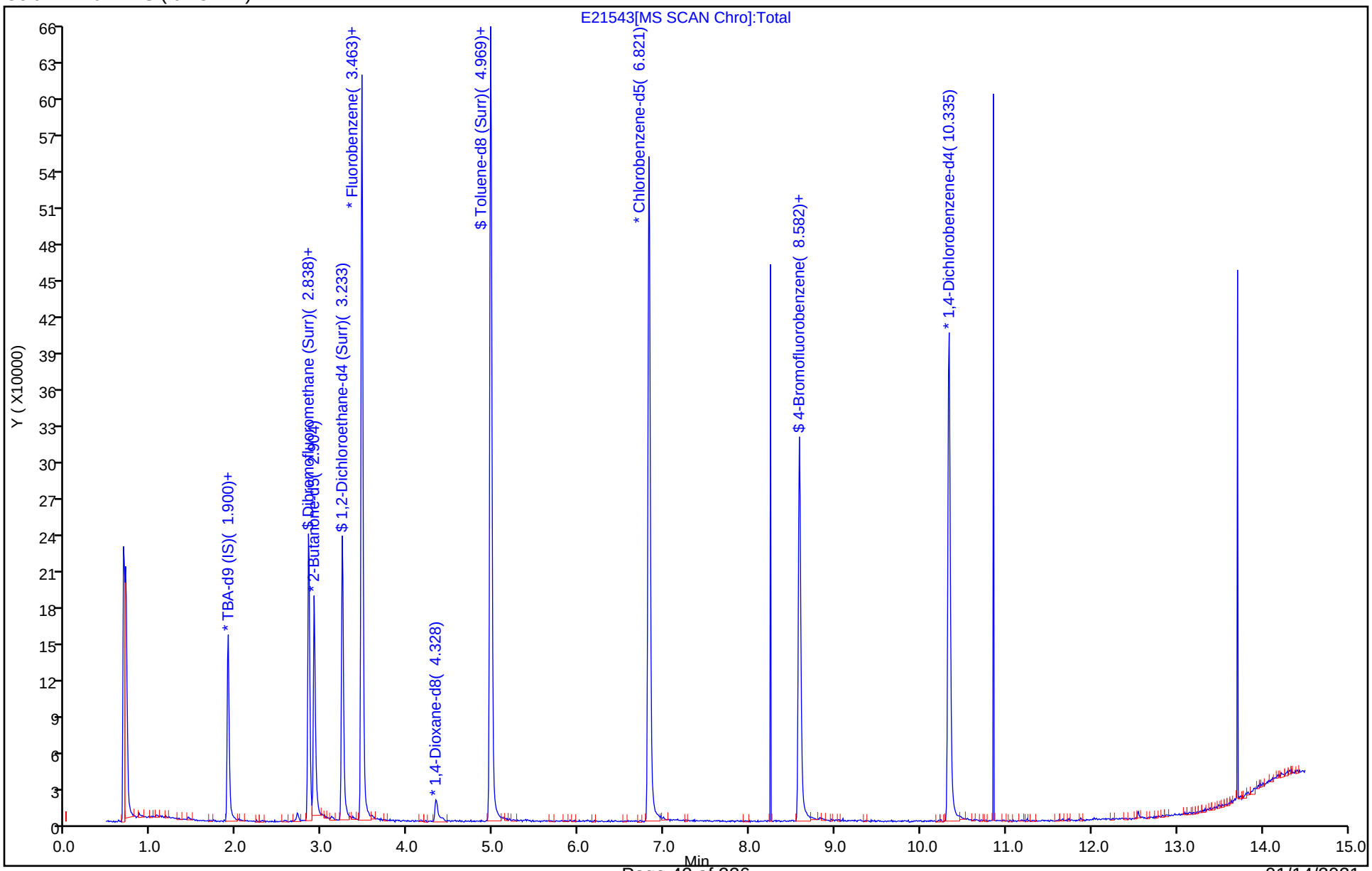
Report Date: 09-Jan-2021 13:18:10 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21543.D

Injection Date:	09-Jan-2021 12:38:30	Instrument ID:	CVOAMS5	Operator ID:	
Lims ID:	460-226054-A-4	Lab Sample ID:	460-226054-4	Worklist Smp#:	10
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260W_5	Limit Group:	VOA - 8260D Water and Solid		

Column: Rtx-VMS (0.18 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-751537/3	E21520.D
Level 2	STD1 460-751537/4	E21521.D
Level 3	STD5 460-751537/5	E21522.D
Level 4	STD20 460-751537/6	E21523.D
Level 5	STD50 460-751537/7	E21524.D
Level 6	STD200 460-751537/8	E21525.D
Level 7	STD500 460-751537/9	E21526.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 1.4312	1.1084 1.6765	0.3318	1.0078	1.2221	QuaF		1.2481	0.0008581						1.0000		0.9900
Dichlorodifluoromethane	+++++ 0.3805	0.3573 0.4131	0.3643	0.3975	0.4062	Ave		0.3865			0.1000	5.9		20.0			
Chlorodifluoromethane	+++++ 0.0608	0.0624 0.0634	0.0578	0.0604	0.0604	Ave		0.0609				3.2		20.0			
Chloromethane	+++++ 0.5547	0.5710 0.5862	0.5464	0.5603	0.5599	Ave		0.5631			0.1000	2.5		20.0			
Vinyl chloride	+++++ 0.3883	0.3835 0.4094	0.3785	0.3870	0.3958	Ave		0.3904			0.1000	2.8		20.0			
Butadiene	0.3824 0.3409	0.3561 0.3759	0.3512	0.3628	0.3648	Ave		0.3620				3.9		20.0			
Bromomethane	+++++ 0.1597	0.1121 +++++	0.1051	0.1180	0.1207	Ave		0.1231			0.1000	17.3		20.0			
Chloroethane	+++++ 2.2038	1.9380 +++++	2.9191	2.7254	2.0693	Ave		2.3711			0.1000	18.0		20.0			
Pentane	+++++ 0.3625	0.3848 0.3587	0.3271	0.3921	0.3838	Ave		0.3682				6.5		20.0			
Trichlorofluoromethane	+++++ 0.3553	0.3814 0.3701	0.3889	0.3796	0.3750	Ave		0.3750			0.1000	3.1		20.0			
Dichlorofluoromethane	+++++ 0.4566	0.4843 0.4636	0.4696	0.4646	0.4576	Ave		0.4661				2.2		20.0			
2-Methyl-1,3-butadiene	+++++ 0.3627	0.3683 0.3916	0.3305	0.3687	0.3698	Ave		0.3653				5.4		20.0			
Ethyl ether	+++++ 0.2096	0.2373 0.2095	0.1978	0.2110	0.2104	Ave		0.2126				6.2		20.0			
Ethanol	+++++ 0.1395	0.2088 0.1398	0.1640	0.1514	0.1444	Ave		0.1580				16.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethene	+++++ 0.2249	0.2554 0.2331	0.2284	0.2408	0.2419	Ave		0.2374			0.1000	4.7		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.3427	0.3285 0.3611	0.3440	0.2956	0.3575	Ave		0.3382				7.1		20.0			
Carbon disulfide	+++++ 0.8207	0.9787 0.8503	0.8860	0.8978	0.8774	Ave		0.8851			0.1000	6.1		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.1759	0.1707 0.1917	0.1647	0.1990	0.1944	Ave		0.1827			0.1000	7.7		20.0			
1,1,1-Trifluoro-2,2-dichloroethane	+++++ 0.3510	0.3896 0.3720	0.3556	0.3844	0.3650	Ave		0.3696				4.2		20.0			
Iodomethane	+++++ 0.3164	0.0890 0.3139	0.0924	0.1479	0.2361	QuaF		0.3026	0.0000234						0.9990		0.9900
Cyclopentene	+++++ 0.6531	0.6308 0.6936	0.6169	0.6725	0.6776	Ave		0.6574				4.5		20.0			
Acrolein	+++++ 1.6330	1.8119 1.5862	1.3747	1.4880	1.5622	Ave		1.5760				9.3		20.0			
3-Chloro-1-propene	+++++ 0.1706	0.1921 0.1632	0.1714	0.1784	0.1783	Ave		0.1757				5.6		20.0			
Isopropyl alcohol	+++++ 0.7357	0.7240 0.7625	0.5980	0.6789	0.6771	Ave		0.6960				8.4		20.0			
Methylene Chloride	+++++ 0.2988	0.3341 0.3040	0.2928	0.3141	0.3108	Ave		0.3091			0.1000	4.7		20.0			
Acetone	+++++ 0.3026	0.2726 0.2347	0.2314	0.2112	0.2114	Ave		0.2440			0.0500	14.9		20.0			
trans-1,2-Dichloroethene	+++++ 0.2840	0.3129 0.2917	0.3040	0.3024	0.3009	Ave		0.2993			0.1000	3.4		20.0			
Methyl acetate	+++++ 2.2912	2.6447 2.1764	2.3414	2.2265	2.3123	Ave		2.3321			0.1000	7.1		20.0			
Hexane	+++++ 2.1687	4.3216 2.3757	2.4230	2.5266	2.6665	Qua2	1.9347	2.3365	-0.000010						0.9910		0.9900
Acetonitrile	+++++ 1.8298	1.7429 1.9371	2.1000	2.1411	2.1077	Ave		1.9764				8.4		20.0			
Methyl tert-butyl ether	+++++ 0.7440	0.7485 0.7411	0.7359	0.7603	0.7456	Ave		0.7459			0.1000	1.1		20.0			
2-Methyl-2-propanol	+++++ 1.2310	1.5546 1.2574	1.3055	1.2066	1.2155	Ave		1.2951				10.2		20.0			
Isopropyl ether	+++++ 1.0289	0.9798 1.0275	0.9679	1.0266	1.0220	Ave		1.0088				2.7		20.0			
2-Chloro-1,3-butadiene	+++++ 0.2568	0.2441 0.2617	0.2345	0.2504	0.2563	Ave		0.2506				4.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethane	+++++ 0.5434	0.5487 0.5557	0.5542	0.5817	0.5687	Ave		0.5587			0.2000	2.5		20.0			
Acrylonitrile	0.0533 0.0769	0.0589 0.0789	0.0712	0.0768	0.0769	Ave		0.0704				14.5		20.0			
Tert-butyl ethyl ether	+++++ 0.9040	0.8535 0.8946	0.8221	0.9090	0.9033	Ave		0.8811				4.0		20.0			
Vinyl acetate	+++++ 0.6752	0.4101 0.7131	0.5984	0.6254	0.7602	Ave		0.6304				19.5		20.0			
cis-1,2-Dichloroethene	+++++ 0.3128	0.3487 0.3174	0.3146	0.3394	0.3263	Ave		0.3265			0.1000	4.5		20.0			
2,2-Dichloropropane	+++++ 0.4042	0.3829 0.4161	0.4127	0.4209	0.4192	Ave		0.4094				3.5		20.0			
Cyclohexane	+++++ 0.3128	0.3375 0.3397	0.2983	0.3281	0.3321	Ave		0.3247			0.1000	5.0		20.0			
Chlorobromomethane	+++++ 0.1463	0.1441 0.1423	0.1525	0.1532	0.1523	Ave		0.1485				3.2		20.0			
Chloroform	+++++ 0.4974	0.5141 0.5025	0.4730	0.5242	0.5136	Ave		0.5041			0.2000	3.6		20.0			
Carbon tetrachloride	+++++ 0.3128	0.3300 0.3276	0.3019	0.3203	0.3188	Ave		0.3186			0.1000	3.2		20.0			
Ethyl acetate	+++++ 0.3354	0.3295 0.3407	0.3667	0.3420	0.3336	Ave		0.3413				3.9		20.0			
Methyl acrylate	+++++ 0.2212	0.2198 0.2208	0.1528	0.2037	0.2080	Ave		0.2044				12.9		20.0			
Tetrahydrofuran	+++++ 1.1255	0.9510 1.1280	0.9569	1.0783	1.1262	Ave		1.0610				8.0		20.0			
1,1,1-Trichloroethane	+++++ 0.3899	0.4281 0.4032	0.3877	0.4018	0.4043	Ave		0.4025			0.1000	3.6		20.0			
1,1-Dichloropropene	+++++ 0.3723	0.4333 0.3934	0.3983	0.3978	0.3881	Ave		0.3972				5.1		20.0			
2-Butanone (MEK)	+++++ 0.4010	0.3831 0.3647	0.3027	0.3557	0.3660	Ave		0.3622			0.0500	9.2		20.0			
Isooctane	+++++ 0.4777	0.4144 0.5404	0.4492	0.4992	0.5205	Ave		0.4836				9.6		20.0			
n-Heptane	+++++ 0.1033	0.0913 0.1189	0.0982	0.1082	0.1101	Ave		0.1050				9.2		20.0			
Benzene	+++++ 1.5678	1.6497 1.5543	1.6183	1.6891	1.6428	Ave		1.6203			0.5000	3.2		20.0			
Propionitrile	+++++ 1.9720	2.0828 1.9005	1.8711	1.8768	1.9102	Ave		1.9356				4.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methacrylonitrile	+++++ 0.1024	0.0699 0.0978	0.0909	0.1019	0.1012	Ave		0.0940				13.4		20.0			
Tert-amyl methyl ether	+++++ 0.8031	0.7226 0.7912	0.7387	0.7836	0.7888	Ave		0.7713				4.2		20.0			
1,2-Dichloroethane	+++++ 0.3539	0.3762 0.3519	0.3489	0.3521	0.3560	Ave		0.3565			0.1000	2.8		20.0			
Isobutyl alcohol	+++++ 0.5935	0.7542 0.6145	0.4804	0.5375	0.5352	Ave		0.5859				16.2		20.0			
Isopropyl acetate	+++++ 0.4760	0.3739 0.4755	0.3966	0.4365	0.4545	Ave		0.4355				9.7		20.0			
Methylcyclohexane	+++++ 0.2385	0.2157 0.2670	0.2375	0.2486	0.2580	Ave		0.2442			0.1000	7.4		20.0			
Trichloroethene (TCE)	+++++ 0.2813	0.3472 0.2840	0.2729	0.2928	0.2814	Ave		0.2933			0.2000	9.3		20.0			
Dibromomethane	+++++ 0.1696	0.1771 0.1704	0.1644	0.1683	0.1687	Ave		0.1697				2.4		20.0			
n-Butanol	+++++ 0.3775	0.3151 0.4001	0.2020	0.2790	0.3232	QuaF		0.3543	0.0000037						1.0000		0.9900
1,2-Dichloropropane	+++++ 0.3321	0.3056 0.3327	0.3166	0.3320	0.3376	Ave		0.3261			0.1000	3.8		20.0			
Dichlorobromomethane	+++++ 0.3863	0.3625 0.3898	0.3702	0.3852	0.3825	Ave		0.3794			0.2000	2.8		20.0			
Ethyl acrylate	+++++ 0.3243	0.2294 0.3290	0.2122	0.2717	0.2944	Ave		0.2768				17.5		20.0			
Methyl methacrylate	+++++ 0.0689	0.0435 0.0674	0.0531	0.0594	0.0628	Ave		0.0592				16.2		20.0			
1,4-Dioxane	+++++ 1.2675	1.2937 1.3294	1.5376	1.3334	1.1913	Ave		1.3255				8.8		20.0			
n-Propyl acetate	+++++ 0.3466	0.2474 0.3475	0.2755	0.3019	0.3180	Ave		0.3062				13.0		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1509	0.0868 0.1541	0.0879	0.1211	0.1365	QuaF		0.1463	0.0000156						1.0000		0.9900
cis-1,3-Dichloropropene	+++++ 0.6692	0.5545 0.6632	0.5734	0.6429	0.6561	Ave		0.6265			0.2000	7.9		20.0			
Toluene	+++++ 1.5537	1.6181 1.5407	1.4976	1.6026	1.5984	Ave		1.5685			0.4000	2.9		20.0			
Epichlorohydrin	0.1870 0.2532	0.1850 0.2463	0.1855	0.2372	0.2521	Ave		0.2209				15.0		20.0			
2-Nitropropane	+++++ 3.4680	3.0761 3.4555	3.2649	3.1117	3.3382	Ave		3.2858				5.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrachloroethene	+++++ 0.3077	0.3161 0.3093	0.3114	0.3143	0.3179	Ave		0.3128			0.2000	1.3		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 2.8665	2.5516 2.8234	2.4168	2.7705	2.8374	Ave		2.7110			0.0500	6.8		20.0			
trans-1,3-Dichloropropene	+++++ 0.5734	0.5152 0.5659	0.5200	0.5573	0.5618	Ave		0.5489			0.1000	4.5		20.0			
1,1,2-Trichloroethane	+++++ 0.2768	0.2536 0.2673	0.2779	0.2738	0.2747	Ave		0.2707			0.1000	3.4		20.0			
Ethyl methacrylate	+++++ 0.4555	0.3523 0.4521	0.3552	0.4108	0.4301	Ave		0.4093				11.2		20.0			
Chlorodibromomethane	+++++ 0.3660	0.3279 0.3655	0.3405	0.3613	0.3578	Ave		0.3532			0.1000	4.4		20.0			
1,3-Dichloropropane	+++++ 0.5769	0.5693 0.5694	0.5418	0.5851	0.5809	Ave		0.5706				2.7		20.0			
Ethylene Dibromide	+++++ 0.3174	0.2626 0.3153	0.2826	0.3076	0.3059	Ave		0.2986			0.1000	7.2		20.0			
n-Butyl acetate	+++++ 0.4856	0.2487 0.5108	0.3113	0.4020	0.4322	QuaF		0.4614	0.0000994						1.0000		0.9900
2-Hexanone	+++++ 2.1266	1.5328 1.9850	1.5194	1.7995	1.9555	Ave		1.8198			0.0500	13.7		20.0			
Chlorobenzene	+++++ 0.9782	0.9765 0.9881	0.9758	0.9894	0.9872	Ave		0.9825			0.5000	0.6		20.0			
Ethylbenzene	+++++ 0.4564	0.4373 0.4651	0.4345	0.4521	0.4742	Ave		0.4533			0.1000	3.4		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3383	0.3431 0.3405	0.3158	0.3266	0.3389	Ave		0.3339				3.2		20.0			
m-Xylene & p-Xylene	+++++ 0.5637	0.5317 0.5776	0.5345	0.5396	0.5703	Ave		0.5529			0.1000	3.6		20.0			
o-Xylene	+++++ 0.5710	0.4925 0.5856	0.4887	0.5414	0.5657	Ave		0.5408			0.3000	7.7		20.0			
Bromoform	+++++ 0.5394	0.4137 0.5581	0.5035	0.5123	0.5313	Ave		0.5097			0.1000	10.0		20.0			
Styrene	+++++ 1.0194	0.6583 1.0576	0.8115	0.9689	1.0134	Ave		0.9215			0.3000	16.8		20.0			
n-Butyl acrylate	+++++ 0.2597	0.1318 0.2755	0.1685	0.2089	0.2275	QuaF		0.2448	0.0000617						1.0000		0.9900
Isopropylbenzene	+++++ 1.1630	1.0129 1.2334	1.0424	1.1456	1.1846	Ave		1.1303			0.1000	7.5		20.0			
Amyl acetate (mixed isomers)	+++++ 1.3373	0.9640 1.3967	1.0257	1.1653	1.2606	Ave		1.1916				14.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Bromobenzene	+++++ 0.9267	0.9858 0.9250	0.9455	0.9441	0.9453	Ave		0.9454				2.3		20.0			
N-Propylbenzene	+++++ 3.0439	2.8267 3.1586	2.8605	3.1091	3.2249	Ave		3.0373				5.3		20.0			
1,1,2,2-Tetrachloroethane	+++++ 0.8495	0.8396 0.8889	0.8852	0.8608	0.8912	Ave		0.8692			0.3000	2.6		20.0			
2-Chlorotoluene	+++++ 2.3318	2.2603 2.3843	2.2930	2.4113	2.4600	Ave		2.3568				3.2		20.0			
4-Ethyltoluene	+++++ 2.6234	2.2237 2.6851	2.3865	2.6061	2.7119	Ave		2.5394				7.6		20.0			
1,2,3-Trichloropropane	+++++ 0.2329	0.2623 0.2402	0.2396	0.2351	0.2433	Ave		0.2422				4.3		20.0			
1,3,5-Trimethylbenzene	+++++ 2.1617	1.8068 2.2383	1.8774	2.1264	2.2613	Ave		2.0786				9.2		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.4163	0.3857 0.4500	0.3050	0.3699	0.3884	Ave		0.3859				12.6		20.0			
4-Chlorotoluene	+++++ 2.2160	1.9784 2.3190	2.1142	2.2906	2.3677	Ave		2.2143				6.6		20.0			
tert-Butylbenzene	+++++ 1.7079	1.6129 1.8142	1.4999	1.6812	1.7813	Ave		1.6829				6.8		20.0			
1,2,4-Trimethylbenzene	+++++ 2.3171	1.7929 2.3586	2.0449	2.2252	2.3727	Ave		2.1852				10.4		20.0			
Butyl Methacrylate	+++++ 1.1099	0.5477 1.1591	0.7031	0.9231	1.0196	QuaF		1.0639	0.0001912						1.0000		0.9900
sec-Butylbenzene	+++++ 2.3655	2.1343 2.5435	2.1248	2.3863	2.5080	Ave		2.3437				7.7		20.0			
1,3-Dichlorobenzene	+++++ 1.4782	1.3163 1.4858	1.3954	1.4658	1.4942	Ave		1.4393			0.6000	4.9		20.0			
4-Isopropyltoluene	+++++ 2.1709	1.6194 2.2859	1.8236	2.0899	2.2375	Ave		2.0379				12.8		20.0			
1,4-Dichlorobenzene	+++++ 1.5413	1.5708 1.5420	1.5306	1.5799	1.6014	Ave		1.5610			0.5000	1.8		20.0			
1,2,3-Trimethylbenzene	+++++ 2.5548	1.8103 2.5424	2.2256	2.4475	2.5615	Ave		2.3570				12.6		20.0			
Indan	+++++ 2.7077	2.2076 2.7055	2.3216	2.6160	2.7188	Ave		2.5462				8.8		20.0			
Benzyl chloride	+++++ 0.3695	0.2700 0.3702	0.2594	0.3211	0.3376	Ave		0.3213				14.9		20.0			
p-Diethylbenzene	+++++ 1.1346	0.8936 1.1454	0.9190	1.0268	1.1185	Ave		1.0397				10.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Butylbenzene	+++++ 1.0262	0.8949 1.0557	0.8598	0.9859	1.0568	Ave		0.9799				8.6		20.0			
1,2-Dichlorobenzene	+++++ 1.4782	1.4799 1.4724	1.4226	1.4879	1.5416	Ave		1.4804			0.4000	2.6		20.0			
1,2,4,5-Tetramethylbenzene	+++++ 2.1414	1.5037 1.9987	1.5360	1.9107	2.2127	Ave		1.8839				16.0		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1829	0.1533 0.1835	0.1668	0.1794	0.1780	Ave		0.1740			0.0500	6.8		20.0			
1,3,5-Trichlorobenzene	+++++ 0.9087	0.9019 0.8902	0.8536	0.9399	0.9856	Ave		0.9133				4.9		20.0			
1,2,4-Trichlorobenzene	+++++ 0.8320	0.7480 0.8085	0.7285	0.8209	0.8986	Ave		0.8061			0.2000	7.6		20.0			
Hexachlorobutadiene	+++++ 0.3960	0.3568 0.3974	0.3772	0.4023	0.4228	Ave		0.3921				5.8		20.0			
Naphthalene	+++++ 1.8665	1.3558 1.7223	1.5105	1.9101	2.0504	Ave		1.7360				15.1		20.0			
1,2,3-Trichlorobenzene	+++++ 0.6960	0.6846 0.6639	0.6701	0.7309	0.7431	Ave		0.6981				4.6		20.0			
Dibromofluoromethane (Surr)	0.2348 0.2460	0.2466 0.2396	0.2498	0.2493	0.2553	Ave		0.2459				2.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2639 0.2405	0.2632 0.2304	0.2625	0.2563	0.2582	Ave		0.2536				5.1		20.0			
Toluene-d8 (Surr)	1.2103 1.2180	1.2158 1.1891	1.2349	1.2229	1.2181	Ave		1.2156				1.1		20.0			
4-Bromofluorobenzene	0.3252 0.3630	0.3415 0.3664	0.3524	0.3547	0.3608	Ave		0.3520				4.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-751537/3	E21520.D
Level 2	STD1 460-751537/4	E21521.D
Level 3	STD5 460-751537/5	E21522.D
Level 4	STD20 460-751537/6	E21523.D
Level 5	STD50 460-751537/7	E21524.D
Level 6	STD200 460-751537/8	E21525.D
Level 7	STD500 460-751537/9	E21526.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	BUT	QuaF	+++++ 231416	831 724842	1271	15167	45235	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	+++++ 774699	3531 2244687	18037	77368	197352	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorodifluoromethane	FB	Ave	+++++ 123808	617 344294	2861	11753	29324	+++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	+++++ 1129263	5643 3185381	27051	109052	272016	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 790554	3790 2224587	18742	75330	192306	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Ave	974 694071	3519 2042812	17386	70622	177212	0.250 200	1.00 500	5.00	20.0	50.0
Bromomethane	FB	Ave	+++++ 325163	1108 +++++	5202	22959	58627	+++++ 200	1.00 +++++	5.00	20.0	50.0
Chloroethane	BUT	Ave	+++++ 356343	1453 +++++	11183	41016	76594	+++++ 200	1.00 +++++	5.00	20.0	50.0
Pentane	BUT	Ave	+++++ 117239	577 310198	2506	11801	28411	+++++ 400	2.00 1000	10.0	40.0	100
Trichlorofluoromethane	FB	Ave	+++++ 723322	3769 2010934	19256	73890	182171	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	+++++ 929592	4786 2519319	23249	90435	222297	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 738500	3640 2127945	16365	71765	179678	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl ether	FB	Ave	+++++ 426747	2345 1138192	9792	41073	102243	+++++ 200	1.00 500	5.00	20.0	50.0
Ethanol	TBAd9	Ave	+++++ 167767	1113 463921	4543	16686	39401	+++++ 8000	40.0 20000	200	800	2000
1,1-Dichloroethene	FB	Ave	+++++ 457861	2524 1266836	11307	46877	117510	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++	3246	17031	57526	173669	+++++	1.00	5.00	20.0	50.0

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			697692	1961889				200	500			
Carbon disulfide	FB	Ave	+++++ 1670763	9672 4620048	43867	174737	426293	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 358064	1687 1041513	8154	38735	94459	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trifluoro-2,2-dichloroethane	FB	Ave	+++++ 714609	3850 2021172	17607	74820	177317	+++++ 200	1.00 500	5.00	20.0	50.0
Iodomethane	FB	QuaF	+++++ 644105	880 1705389	4575	28794	114693	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclopentene	FB	Ave	+++++ 1329663	6234 3768588	30542	130891	329197	+++++ 200	1.00 500	5.00	20.0	50.0
Acrolein	TBAd9	Ave	+++++ 49106	966 105269	3808	8198	21321	+++++ 200	4.00 400	20.0	40.0	100
3-Chloro-1-propene	FB	Ave	+++++ 347290	1898 886974	8487	34718	86647	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 221230	965 632524	4141	18701	46204	+++++ 2000	10.0 5000	50.0	200	500
Methylene Chloride	FB	Ave	+++++ 608300	3302 1651705	14497	61145	150997	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Ave	+++++ 244648	1022 507338	4432	15894	39123	+++++ 1000	5.00 2500	25.0	100	250
trans-1,2-Dichloroethene	FB	Ave	+++++ 578136	3092 1584974	15052	58863	146198	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl acetate	TBAd9	Ave	+++++ 137794	705 361102	3243	12267	31557	+++++ 400	2.00 1000	10.0	40.0	100
Hexane	TBAd9	Qua2	+++++ 65212	576 197088	1678	6960	18196	+++++ 200	1.00 500	5.00	20.0	50.0
Acetonitrile	TBAd9	Ave	+++++ 550213	2323 1607012	14543	58983	143822	+++++ 2000	10.0 5000	50.0	200	500
Methyl tert-butyl ether	FB	Ave	+++++ 1514746	7397 4027155	36432	147976	362243	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 370155	2072 1043088	9041	33238	82946	+++++ 2000	10.0 5000	50.0	200	500
Isopropyl ether	FB	Ave	+++++ 2094676	9683 5583252	47919	199816	496525	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 522758	2412 1421808	11609	48738	124499	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1106317	5422 3019633	27437	113220	276310	+++++ 200	1.00 500	5.00	20.0	50.0
Acrylonitrile	FB	Ave	1086 1564868	5820 4286875	35237	149515	373687	2.00 2000	10.0 5000	50.0	200	500

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tert-butyl ethyl ether	FB	Ave	+++++ 1840413	8434 4861076	40702	176919	438854	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	BUT	Ave	+++++ 218354	615 616653	4585	18825	56275	+++++ 400	2.00 1000	10.0	40.0	100
cis-1,2-Dichloroethene	FB	Ave	+++++ 636856	3446 1724724	15574	66052	158524	+++++ 200	1.00 500	5.00	20.0	50.0
2,2-Dichloropropane	FB	Ave	+++++ 822991	3784 2261040	20435	81921	203667	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 636853	3335 1845838	14769	63857	161335	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobromomethane	FB	Ave	+++++ 297835	1424 773374	7549	29825	74011	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroform	FB	Ave	+++++ 1012575	5080 2730719	23419	102037	249545	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 636804	3261 1779878	14949	62349	154894	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acetate	BUT	Ave	+++++ 108469	494 294636	2810	10294	24700	+++++ 400	2.00 1000	10.0	40.0	100
Methyl acrylate	FB	Ave	+++++ 450287	2172 1199523	7563	39650	101074	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Ave	+++++ 363961	1426 975453	7332	32456	83375	+++++ 400	2.00 1000	10.0	40.0	100
1,1,1-Trichloroethane	FB	Ave	+++++ 793840	4231 2190697	19197	78202	196406	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 757883	4282 2137437	19719	77432	188531	+++++ 200	1.00 500	5.00	20.0	50.0
2-Butanone (MEK)	BUT	Ave	+++++ 324189	1436 788365	5799	26765	67729	+++++ 1000	5.00 2500	25.0	100	250
Isooctane	FB	Ave	+++++ 972462	4095 2936433	22241	97165	252858	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 210380	902 646245	4861	21061	53483	+++++ 200	1.00 500	5.00	20.0	50.0
Benzene	CBNZd5	Ave	+++++ 2482819	12106 6698671	59296	250150	612158	+++++ 200	1.00 500	5.00	20.0	50.0
Propionitrile	TBAd9	Ave	+++++ 592971	2776 1576624	12958	51700	130349	+++++ 2000	10.0 5000	50.0	200	500
Methacrylonitrile	FB	Ave	+++++ 2084457	6904 5312780	44990	198401	491862	+++++ 2000	10.0 5000	50.0	200	500
Tert-amyl methyl ether	FB	Ave	+++++ 1634925	7141 4299273	36573	152525	383206	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	+++++	3718	17274	68536	172951	+++++	1.00	5.00	20.0	50.0

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			720488	1911959				200	500			
Isobutyl alcohol	TBAd9	Ave	+++++ 446195	2513 1274486	8317	37016	91302	+++++ 5000	25.0 12500	125	500	1250
Isopropyl acetate	FB	Ave	+++++ 969087	3695 2583910	19638	84966	220827	+++++ 200	1.00 500	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	+++++ 485466	2132 1450984	11760	48392	125351	+++++ 200	1.00 500	5.00	20.0	50.0
Trichloroethene (TCE)	FB	Ave	+++++ 572646	3431 1543328	13513	56998	136711	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromomethane	FB	Ave	+++++ 345186	1750 925639	8141	32755	81980	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butanol	TBAd9	QuaF	+++++ 283764	1050 829829	3498	19214	55141	+++++ 5000	25.0 12500	125	500	1250
1,2-Dichloropropane	FB	Ave	+++++ 676049	3020 1807935	15673	64622	163994	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorobromomethane	FB	Ave	+++++ 786490	3582 2117884	18328	74971	185811	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acrylate	FB	Ave	+++++ 660212	2267 1787740	10506	52876	143047	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl methacrylate	FB	Ave	+++++ 280521	859 732733	5257	23117	61030	+++++ 400	2.00 1000	10.0	40.0	100
1,4-Dioxane	DXE	Ave	+++++ 105648	1115 284822	2848	10035	23409	+++++ 4000	50.0 10000	100	400	1000
n-Propyl acetate	FB	Ave	+++++ 705625	2445 1888357	13641	58757	154480	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chloroethyl vinyl ether	FB	QuaF	+++++ 308030	860 839277	4363	23633	66458	+++++ 200	1.00 501	5.01	20.0	50.1
cis-1,3-Dichloropropene	CBNZd5	Ave	+++++ 1059767	4069 2858452	21009	95208	244492	+++++ 200	1.00 500	5.00	20.0	50.0
Toluene	CBNZd5	Ave	+++++ 2460507	11874 6640202	54875	237336	595608	+++++ 200	1.00 500	5.00	20.0	50.0
Epichlorohydrin	BUT	Ave	653 818696	2774 2129961	14216	71381	186610	5.00 4000	20.0 10000	100	400	1000
2-Nitropropane	TBAd9	Ave	+++++ 208569	820 573336	4522	17144	45559	+++++ 400	2.00 1000	10.0	40.0	100
Tetrachloroethene	CBNZd5	Ave	+++++ 487216	2320 1333139	11409	46551	118458	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 2317457	9565 6103742	46294	208475	525140	+++++ 1000	5.00 2500	25.0	100	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
trans-1,3-Dichloropropene	CBNZd5	Ave	+++++ 908047	3781 2439010	19054	82541	209326	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZd5	Ave	+++++ 438304	1861 1152079	10184	40553	102364	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	CBNZd5	Ave	+++++ 721339	2585 1948314	13016	60831	160268	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorodibromomethane	CBNZd5	Ave	+++++ 579625	2406 1575069	12475	53511	133343	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZd5	Ave	+++++ 913606	4178 2454222	19852	86656	216468	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylene Dibromide	CBNZd5	Ave	+++++ 502603	1927 1358976	10355	45554	113990	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acetate	CBNZd5	QuaF	+++++ 768999	1825 2201613	11406	59534	161056	+++++ 200	1.00 500	5.00	20.0	50.0
2-Hexanone	BUT	Ave	+++++ 1719285	5746 4291206	29105	135408	361912	+++++ 1000	5.00 2500	25.0	100	250
Chlorobenzene	CBNZd5	Ave	+++++ 1549097	7166 4258535	35753	146528	367841	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZd5	Ave	+++++ 722794	3209 2004631	15919	66954	176698	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	+++++ 535792	2518 1467592	11570	48373	126272	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZd5	Ave	+++++ 892753	3902 2489208	19586	79911	212505	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZd5	Ave	+++++ 904347	3614 2524079	17906	80175	210784	+++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	DCBd4	Ave	+++++ 383856	1287 1096683	7852	32771	84165	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZd5	Ave	+++++ 1614323	4831 4557984	29736	143487	377606	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butyl acrylate	CBNZd5	QuaF	+++++ 411310	967 1187375	6175	30937	84757	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZd5	Ave	+++++ 1841837	7433 5315901	38195	169665	441419	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd4	Ave	+++++ 951729	2999 2744370	15997	74542	199705	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd4	Ave	+++++ 659494	3067 1817582	14746	60395	149765	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd4	Ave	+++++ 2166261	8794 6206618	44612	198883	510903	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd4	Ave	+++++ 604542	2612 1746581	13806	55063	141186	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd4	Ave	+++++ 1659424	7032 4685071	35761	154251	389726	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd4	Ave	+++++ 1866967	6918 5276023	37220	166708	429623	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	+++++ 165752	816 471898	3736	15041	38546	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd4	Ave	+++++ 1538404	5621 4398117	29279	136021	358239	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	+++++ 296277	1200 884317	4756	23663	61525	+++++ 200	1.00 500	5.00	20.0	50.0
4-Chlorotoluene	DCBd4	Ave	+++++ 1577044	6155 4556772	32973	146526	375103	+++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd4	Ave	+++++ 1215446	5018 3564832	23393	107543	282198	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd4	Ave	+++++ 1649020	5578 4634559	31892	142342	375892	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd4	QuaF	+++++ 789902	1704 2277567	10966	59051	161529	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd4	Ave	+++++ 1683448	6640 4997871	33138	152648	397317	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd4	Ave	+++++ 1052017	4095 2919497	21762	93767	236712	+++++ 200	1.00 500	5.00	20.0	50.0
4-Isopropyltoluene	DCBd4	Ave	+++++ 1544957	5038 4491670	28441	133691	354479	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd4	Ave	+++++ 1096886	4887 3029956	23871	101065	253695	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd4	Ave	+++++ 1818159	5632 4995699	34710	156563	405802	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 751537

SDG No.:

Instrument ID: CVOAMS5 GC Column: Rtx-VMS ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 21:20 Calibration End Date: 01/07/2021 23:48 Calibration ID: 83456

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Indan	DCBd4	Ave	+++++ 1926957	6868 5316257	36208	167345	430713	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd4	Ave	+++++ 262940	840 727357	4045	20543	53482	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd4	Ave	+++++ 807447	2780 2250719	14333	65685	177200	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd4	Ave	+++++ 730286	2784 2074327	13410	63067	167421	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd4	Ave	+++++ 1051993	4604 2893150	22186	95182	244224	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd4	Ave	+++++ 1523985	4678 3927304	23955	122223	350550	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	+++++ 130151	477 360599	2602	11474	28195	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd4	Ave	+++++ 646660	2806 1749192	13312	60126	156146	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd4	Ave	+++++ 592083	2327 1588728	11362	52515	142357	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd4	Ave	+++++ 281807	1110 780788	5883	25735	66981	+++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd4	Ave	+++++ 1328350	4218 3384328	23558	122190	324838	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichlorobenzene	DCBd4	Ave	+++++ 495344	2130 1304576	10451	46756	117721	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	119607 125182	121872 130187	123664	121315	124052	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	134432 122387	130028 125201	129943	124716	125437	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	448520 482215	446085 512509	452492	452764	453883	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZd5	Ave	120521 143732	125309 157920	129141	131314	134425	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21520.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 07-Jan-2021 21:20:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 460-0122590-003
Operator ID: Instrument ID: CVOAMS5
Sublist: chrom-8260W_5*sub65

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 08-Jan-2021 19:09:30 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: boykink Date: 07-Jan-2021 21:40:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.665	0.665	0.000	31	745		NC	
4 1,1-Difluoroethane	65	0.896	0.896	0.000	12	179		NC	
8 Butadiene	54	0.896	0.896	0.000	89	974	0.2500	0.2641	
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	100	129601	1000.0	1000.0	
39 Acrylonitrile	53	2.237	2.237	0.000	64	1086	2.00	1.51	a
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	98	119607	50.0	47.7	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	99	174642	250.0	250.0	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	96	134432	50.0	52.0	
65 t-Amyl alcohol	59	3.472	3.472	0.000	18	89		NC	
* 66 Fluorobenzene	96	3.463	3.463	0.000	99	509349	50.0	50.0	
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	95	16855	1000.0	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.969	4.969	0.000	99	448520	50.0	49.8	
84 Epichlorohydrin	57	5.093	5.093	0.000	18	653	5.00	4.23	Ma
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	85	370575	50.0	50.0	
$ 107 4-Bromofluorobenzene	174	8.582	8.582	0.000	92	120521	50.0	46.2	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	94	154079	50.0	50.0	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

ACROLEIN W_00117	Amount Added:	0.00	Units: uL	
GAS Hi_00379	Amount Added:	0.00	Units: uL	
8260MIX1COMB_00130	Amount Added:	0.00	Units: uL	
GASES Li_00402	Amount Added:	2.50	Units: uL	
ACRY/EPIH MIX_00081	Amount Added:	20.00	Units: uL	
Ethanol mix_00047	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00106	Amount Added:	0.00	Units: uL	
MIX I Hi_00133	Amount Added:	0.00	Units: uL	
14DIOXINTER_00124	Amount Added:	0.00	Units: uL	
524freon_00031	Amount Added:	0.00	Units: uL	
8FreonHi_00027	Amount Added:	0.00	Units: uL	
8260ISNEW_00140	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00214	Amount Added:	1.00	Units: uL	Run Reagent

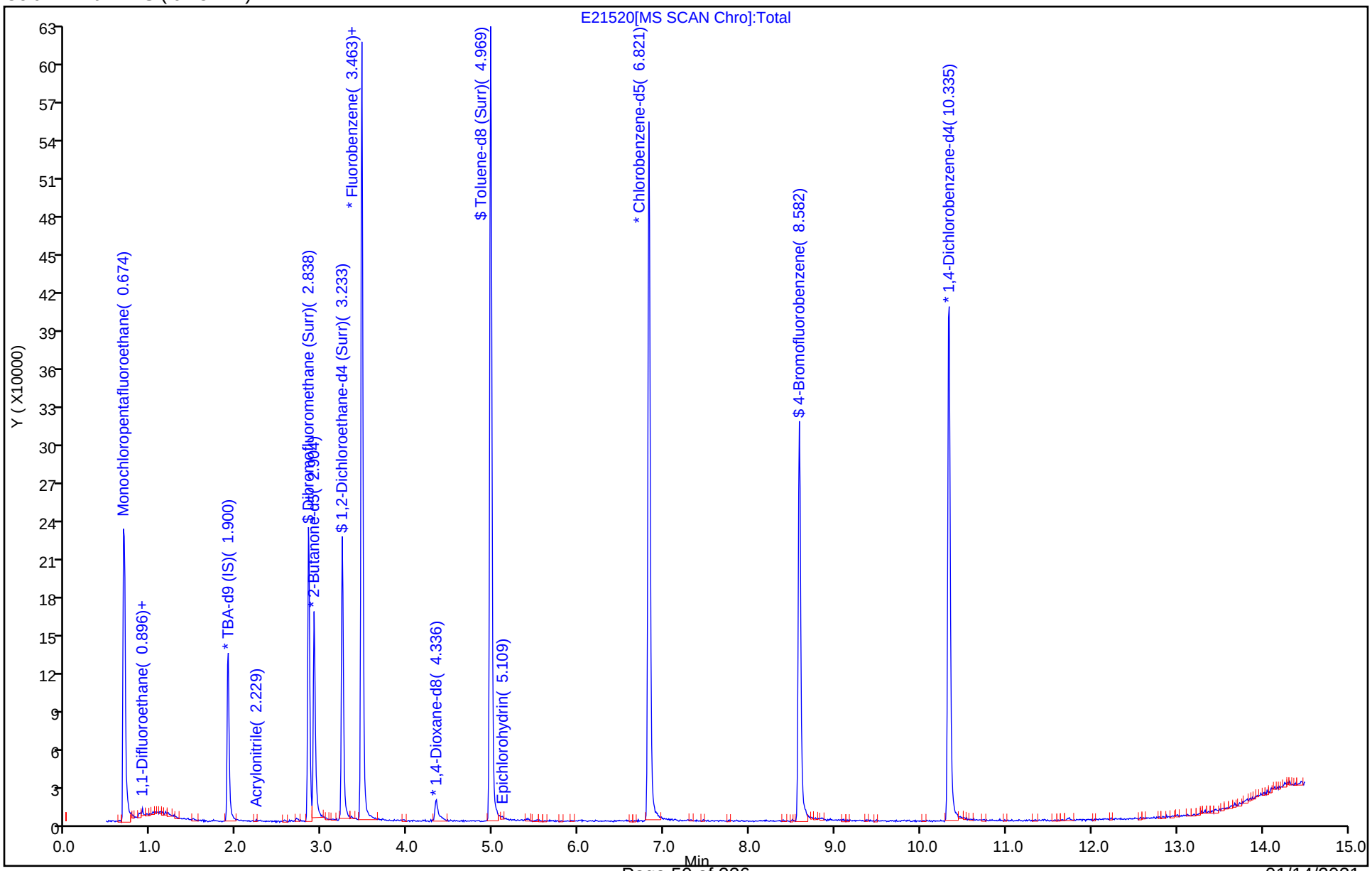
Report Date: 08-Jan-2021 19:09:30 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21520.D

Injection Date:	07-Jan-2021 21:20:30	Instrument ID:	CVOAMS5	Operator ID:	
Lims ID:	STD7			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W_5	Limit Group:	VOA - 8260D Water and Solid		

Column: Rtx-VMS (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21521.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-Jan-2021 21:45:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0122590-004
Operator ID: Instrument ID: CVOAMS5
Sublist: chrom-8260W_5*sub65

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 08-Jan-2021 19:09:39 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: boykink Date: 07-Jan-2021 22:06:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Monochloropentafluoroethane	119	0.682	0.682	0.000	31	1335	NC	NC	
2 Chlorotrifluoroethene	116	0.665	0.665	0.000	46	831	1.00	0.8876	
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	97	3531	1.00	0.9245	
5 Chlorodifluoromethane	67	0.805	0.805	0.000	95	617	1.00	1.03	a
6 Chloromethane	50	0.871	0.871	0.000	95	5643	1.00	1.01	
7 Vinyl chloride	62	0.896	0.896	0.000	72	3790	1.00	0.9823	
4 1,1-Difluoroethane	65	0.789	0.789	0.000	89	1867	NC	NC	a
8 Butadiene	54	0.896	0.896	0.000	92	3519	1.00	0.9836	
9 Bromomethane	94	1.044	1.044	0.000	94	1108	1.00	0.9108	
10 Chloroethane	64	1.102	1.102	0.000	85	1453	1.00	0.8173	M
11 Trichlorofluoromethane	101	1.167	1.167	0.000	91	3769	1.00	1.02	
12 Pentane	72	1.167	1.167	0.000	96	577	2.00	2.09	
13 Dichlorofluoromethane	67	1.200	1.200	0.000	98	4786	1.00	1.04	
14 2-Methyl-1,3-butadiene	67	1.316	1.316	0.000	95	3640	1.00	1.01	
15 Ethyl ether	59	1.316	1.316	0.000	97	2345	1.00	1.12	
16 Ethanol	45	1.324	1.324	0.000	59	1113	40.0	52.9	M
17 1,1-Dichloroethene	96	1.414	1.414	0.000	94	2524	1.00	1.08	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.414	1.414	0.000	87	3246	1.00	0.9712	
19 Carbon disulfide	76	1.431	1.431	0.000	99	9672	1.00	1.11	
20 112TCTFE	101	1.439	1.439	0.000	48	1687	1.00	0.9342	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.447	1.447	0.000	87	3850	1.00	1.05	
22 Iodomethane	142	1.497	1.497	0.000	76	880	1.00	0.2942	
23 Cyclopentene	67	1.571	1.571	0.000	98	6234	1.00	0.9596	
24 Acrolein	56	1.595	1.595	0.000	88	966	4.00	4.60	
25 3-Chloro-1-propene	76	1.669	1.669	0.000	93	1898	1.00	1.09	
26 Isopropyl alcohol	45	1.686	1.686	0.000	46	965	10.0	10.4	
27 Methylene Chloride	84	1.727	1.727	0.000	91	3302	1.00	1.08	
28 Acetone	58	1.768	1.768	0.000	90	1022	5.00	5.59	
29 trans-1,2-Dichloroethene	96	1.818	1.818	0.000	93	3092	1.00	1.05	
30 Methyl acetate	74	1.826	1.826	0.000	80	705	2.00	2.27	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.859	1.859	0.000	73	576	1.00	1.02	
35 Acetonitrile	41	1.875	1.875	0.000	33	2323	10.0	8.82	
32 Methyl tert-butyl ether	73	1.875	1.875	0.000	95	7397	1.00	1.00	
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	99	133285	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.941	1.941	0.000	28	2072	10.0	12.0	
36 Isopropyl ether	45	2.097	2.097	0.000	94	9683	1.00	0.9713	
37 2-Chloro-1,3-butadiene	88	2.163	2.163	0.000	90	2412	1.00	0.9739	
38 1,1-Dichloroethane	63	2.171	2.171	0.000	98	5422	1.00	0.9820	
39 Acrylonitrile	53	2.229	2.229	0.000	96	5820	10.0	8.36	
40 Tert-butyl ethyl ether	59	2.328	2.328	0.000	91	8434	1.00	0.9687	
41 Vinyl acetate	86	2.353	2.353	0.000	97	615	2.00	1.30	
42 cis-1,2-Dichloroethene	96	2.525	2.525	0.000	93	3446	1.00	1.07	
43 2,2-Dichloropropane	77	2.583	2.583	0.000	90	3784	1.00	0.9354	
44 Cyclohexane	56	2.641	2.641	0.000	93	3335	1.00	1.04	
45 Chlorobromomethane	128	2.657	2.657	0.000	95	1424	1.00	0.9706	
46 Chloroform	83	2.715	2.715	0.000	95	5080	1.00	1.02	
47 Carbon tetrachloride	117	2.797	2.797	0.000	83	3261	1.00	1.04	
48 Methyl acrylate	55	2.830	2.830	0.000	34	2172	1.00	1.08	M
49 Ethyl acetate	70	2.822	2.822	0.000	39	494	2.00	1.93	
50 Tetrahydrofuran	42	2.838	2.838	0.000	34	1426	2.00	1.79	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	97	121872	50.0	50.1	
52 1,1,1-Trichloroethane	97	2.846	2.846	0.000	36	4231	1.00	1.06	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	99	187433	250.0	250.0	
54 1,1-Dichloropropene	75	2.937	2.937	0.000	93	4282	1.00	1.09	
55 2-Butanone (MEK)	72	2.945	2.945	0.000	77	1436	5.00	5.29	
56 Isooctane	57	3.019	3.019	0.000	70	4095	1.00	0.8569	
57 n-Heptane	57	3.110	3.110	0.000	74	902	1.00	0.8693	
58 Benzene	78	3.126	3.126	0.000	95	12106	1.00	1.02	
59 Propionitrile	54	3.175	3.175	0.000	37	2776	10.0	10.8	
60 Methacrylonitrile	67	3.184	3.184	0.000	91	6904	10.0	7.43	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	95	130028	50.0	51.9	
62 Tert-amyl methyl ether	73	3.233	3.233	0.000	39	7141	1.00	0.9368	
63 1,2-Dichloroethane	62	3.291	3.291	0.000	1	3718	1.00	1.06	a
64 Isobutyl alcohol	43	3.381	3.381	0.000	90	2513	25.0	32.2	a
* 66 Fluorobenzene	96	3.464	3.464	0.000	99	494111	50.0	50.0	
65 t-Amyl alcohol	59	3.431	3.431	0.000	79	1360	NC	NC	
67 Isopropyl acetate	43	3.546	3.546	0.000	53	3695	1.00	0.8585	
68 Methylcyclohexane	83	3.579	3.579	0.000	57	2132	1.00	0.8833	
69 Trichloroethene	95	3.612	3.612	0.000	94	3431	1.00	1.18	
70 2-ethoxy-2-methyl butane	59	3.842	3.842	0.000	96	6941	NC	NC	
71 Dibromomethane	93	3.990	3.990	0.000	93	1750	1.00	1.04	
72 n-Butanol	56	4.254	4.254	0.000	39	1050	25.0	22.2	M
73 1,2-Dichloropropane	63	4.064	4.064	0.000	91	3020	1.00	0.9372	
74 Dichlorobromomethane	83	4.147	4.147	0.000	96	3582	1.00	0.9554	
75 Ethyl acrylate	55	4.180	4.180	0.000	32	2267	1.00	0.8287	M
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	94	17238	1000.0	1000.0	
77 Methyl methacrylate	100	4.344	4.344	0.000	65	859	2.00	1.47	
78 1,4-Dioxane	88	4.361	4.361	0.000	27	1115	50.0	48.8	
79 n-Propyl acetate	43	4.517	4.517	0.000	88	2445	1.00	0.8081	M
80 2-Chloroethyl vinyl ether	63	4.797	4.797	0.000	36	860	1.00	0.5947	M
81 cis-1,3-Dichloropropene	75	4.797	4.797	0.000	92	4069	1.00	0.8850	
$ 82 Toluene-d8 (Surr)	98	4.970	4.970	0.000	99	446085	50.0	50.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	5.035	5.035	0.000	63	11874	1.00	1.03	
84 Epichlorohydrin	57	5.093	5.093	0.000	95	2774	20.0	16.8	
85 2-Nitropropane	41	5.299	5.299	0.000	92	820	2.00	1.87	
86 Tetrachloroethene	166	5.447	5.447	0.000	91	2320	1.00	1.01	
87 4-Methyl-2-pentanone (MIBK)	43	5.504	5.504	0.000	95	9565	5.00	4.71	
88 trans-1,3-Dichloropropene	75	5.546	5.546	0.000	55	3781	1.00	0.9386	
89 1,1,2-Trichloroethane	83	5.710	5.710	0.000	90	1861	1.00	0.9369	
90 Ethyl methacrylate	69	5.793	5.793	0.000	82	2585	1.00	0.8606	
91 Chlorodibromomethane	129	5.900	5.900	0.000	95	2406	1.00	0.9284	
92 1,3-Dichloropropane	76	6.023	6.023	0.000	94	4178	1.00	1.00	
93 Ethylene Dibromide	107	6.163	6.163	0.000	96	1927	1.00	0.8795	
94 n-Butyl acetate	43	6.500	6.500	0.000	79	1825	1.00	0.5390	Ma
95 2-Hexanone	43	6.574	6.574	0.000	97	5746	5.00	4.21	M
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	86	366916	50.0	50.0	
97 Chlorobenzene	112	6.838	6.838	0.000	89	7166	1.00	0.99	
98 Ethylbenzene	106	6.936	6.936	0.000	97	3209	1.00	0.9648	
99 1,1,1,2-Tetrachloroethane	133	6.953	6.953	0.000	84	2518	1.00	1.03	
100 m-Xylene & p-Xylene	106	7.150	7.150	0.000	93	3902	1.00	0.9617	
101 o-Xylene	106	7.727	7.727	0.000	96	3614	1.00	0.9106	
102 Bromoform	173	7.792	7.792	0.000	45	1287	1.00	0.8116	
103 Styrene	104	7.833	7.833	0.000	95	4831	1.00	0.7144	
104 n-Butyl acrylate	73	8.163	8.163	0.000	29	967	1.00	0.5383	M
105 Isopropylbenzene	105	8.212	8.212	0.000	96	7433	1.00	0.8961	
106 Amyl acetate (mixed isomers)	43	8.574	8.574	0.000	41	2999	1.00	0.8090	M
$ 107 4-Bromofluorobenzene	174	8.582	8.582	0.000	93	125309	50.0	48.5	
108 Bromobenzene	156	8.698	8.698	0.000	92	3067	1.00	1.04	
109 N-Propylbenzene	91	8.838	8.838	0.000	97	8794	1.00	0.9307	
110 1,1,2,2-Tetrachloroethane	83	9.002	9.002	0.000	63	2612	1.00	0.9659	
111 2-Chlorotoluene	91	9.019	9.019	0.000	97	7032	1.00	0.9591	
112 4-Ethyltoluene	105	9.035	9.035	0.000	87	6918	1.00	0.8757	
113 1,2,3-Trichloropropane	110	9.134	9.134	0.000	57	816	1.00	1.08	
114 1,3,5-Trimethylbenzene	105	9.183	9.183	0.000	95	5621	1.00	0.8692	
115 trans-1,4-Dichloro-2-butene	75	9.298	9.298	0.000	44	1200	1.00	1.00	
116 4-Chlorotoluene	91	9.290	9.290	0.000	97	6155	1.00	0.8935	
117 tert-Butylbenzene	119	9.652	9.652	0.000	93	5018	1.00	0.9584	
119 1,2,4-Trimethylbenzene	105	9.784	9.784	0.000	94	5578	1.00	0.8205	
118 Butyl Methacrylate	87	9.800	9.800	0.000	71	1704	1.00	0.5148	
120 sec-Butylbenzene	105	9.940	9.940	0.000	97	6640	1.00	0.9106	
121 1,3-Dichlorobenzene	146	10.212	10.212	0.000	81	4095	1.00	0.9145	
122 4-Isopropyltoluene	119	10.212	10.212	0.000	98	5038	1.00	0.7946	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	94	155554	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.360	10.360	0.000	90	4887	1.00	1.01	
125 1,2,3-Trimethylbenzene	105	10.459	10.459	0.000	96	5632	1.00	0.7680	
126 2,3-Dihydroindene	117	10.632	10.632	0.000	91	6868	1.00	0.8670	
128 Benzyl chloride	126	10.821	10.821	0.000	95	840	1.00	0.8404	
127 p-Diethylbenzene	119	10.829	10.829	0.000	76	2780	1.00	0.8595	
129 n-Butylbenzene	92	10.911	10.911	0.000	95	2784	1.00	0.9132	
130 1,2-Dichlorobenzene	146	11.035	11.035	0.000	97	4604	1.00	1.00	
131 1,2,4,5-Tetramethylbenzene	119	11.874	11.874	0.000	96	4678	1.00	0.7982	
132 1,2-Dibromo-3-Chloropropane	157	11.998	11.998	0.000	49	477	1.00	0.8813	
133 1,3,5-Trichlorobenzene	180	12.031	12.031	0.000	90	2806	1.00	0.9875	
134 1,2,4-Trichlorobenzene	180	12.549	12.549	0.000	90	2327	1.00	0.9279	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.549	12.549	0.000	81	1110	1.00	0.9100	
136 Naphthalene	128	12.763	12.763	0.000	97	4218	1.00	0.7810	
137 1,2,3-Trichlorobenzene	180	12.878	12.878	0.000	95	2130	1.00	0.9807	
S 138 1,2-Dichloroethene, Total	100				0		2.00	2.11	
S 139 1,3-Dichloropropene, Total	100				0		2.00	1.82	
S 140 Xylenes, Total	100				0		2.00	1.87	
S 141 Total BTEX	1				0		5.00	4.89	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

ACROLEIN W_00117	Amount Added:	4.00	Units: uL	
8260MIX1COMB_00130	Amount Added:	10.00	Units: uL	
GASES Li_00402	Amount Added:	10.00	Units: uL	
524freon_00031	Amount Added:	10.00	Units: uL	
14DIOXINTER_00124	Amount Added:	30.00	Units: uL	
8260ISNEW_00140	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00214	Amount Added:	1.00	Units: uL	Run Reagent

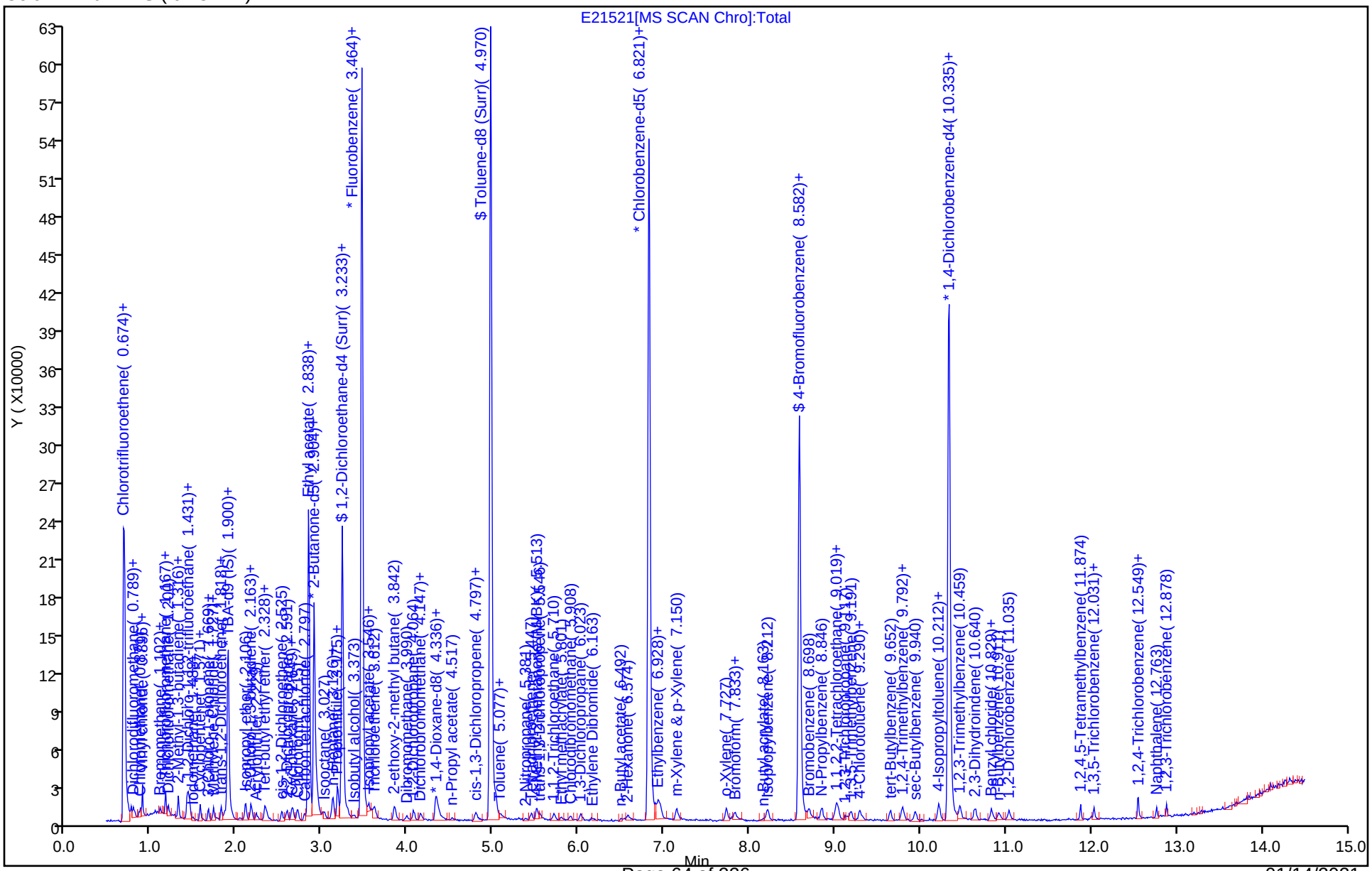
Report Date: 08-Jan-2021 19:09:41 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21521.D

Injection Date:	07-Jan-2021 21:45:30	Instrument ID:	CVOAMS5	Operator ID:	
Lims ID:	STD1			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W_5	Limit Group:	VOA - 8260D Water and Solid		

Column: Rtx-VMS (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21522.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-Jan-2021 22:09:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0122590-005
Operator ID: Instrument ID: CVOAMS5
Sublist: chrom-8260W_5*sub65

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 08-Jan-2021 19:09:58 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: boykink Date: 07-Jan-2021 22:33:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.674	0.665	0.009	50	1271	5.00	1.33	
1 Monochloropentafluoroethane	119	0.707	0.682	0.025	9	1237	NC	NC	a
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	99	18037	5.00	4.71	
4 1,1-Difluoroethane	65	0.789	0.789	0.000	98	8588	NC	NC	
5 Chlorodifluoromethane	67	0.797	0.805	-0.008	96	2861	5.00	4.75	a
6 Chloromethane	50	0.880	0.871	0.009	98	27051	5.00	4.85	
7 Vinyl chloride	62	0.888	0.896	-0.008	94	18742	5.00	4.85	
8 Butadiene	54	0.896	0.896	0.000	93	17386	5.00	4.85	
9 Bromomethane	94	1.044	1.044	0.000	98	5202	5.00	4.27	
10 Chloroethane	64	1.102	1.102	0.000	99	11183	5.00	6.16	M
11 Trichlorofluoromethane	101	1.168	1.167	0.001	83	19256	5.00	5.19	
12 Pentane	72	1.168	1.167	0.001	95	2506	10.0	8.88	
13 Dichlorofluoromethane	67	1.200	1.200	0.000	98	23249	5.00	5.04	
14 2-Methyl-1,3-butadiene	67	1.316	1.316	0.000	96	16365	5.00	4.52	
15 Ethyl ether	59	1.316	1.316	0.000	91	9792	5.00	4.65	
16 Ethanol	45	1.398	1.324	0.074	23	4543	200.0	207.6	a
17 1,1-Dichloroethene	96	1.414	1.414	0.000	95	11307	5.00	4.81	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.414	1.414	0.000	75	17031	5.00	5.09	
19 Carbon disulfide	76	1.431	1.431	0.000	99	43867	5.00	5.00	
20 112TCTFE	101	1.439	1.439	0.000	90	8154	5.00	4.51	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.447	1.447	0.000	96	17607	5.00	4.81	
22 Iodomethane	142	1.489	1.497	-0.008	95	4575	5.00	1.53	
23 Cyclopentene	67	1.571	1.571	0.000	96	30542	5.00	4.69	
24 Acrolein	56	1.604	1.595	0.009	89	3808	20.0	17.4	
25 3-Chloro-1-propene	76	1.670	1.669	0.001	94	8487	5.00	4.88	
26 Isopropyl alcohol	45	1.694	1.686	0.008	97	4141	50.0	43.0	
27 Methylene Chloride	84	1.727	1.727	0.000	96	14497	5.00	4.74	
28 Acetone	58	1.760	1.768	-0.008	86	4432	25.0	23.7	
29 trans-1,2-Dichloroethene	96	1.818	1.818	0.000	94	15052	5.00	5.08	
30 Methyl acetate	74	1.826	1.826	0.000	99	3243	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.851	1.859	-0.008	74	1678	5.00	4.36	
35 Acetonitrile	41	1.875	1.875	0.000	60	14543	50.0	53.1	
32 Methyl tert-butyl ether	73	1.875	1.875	0.000	94	36432	5.00	4.93	
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	100	138504	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.941	1.941	0.000	99	9041	50.0	50.4	
36 Isopropyl ether	45	2.098	2.097	0.001	98	47919	5.00	4.80	
37 2-Chloro-1,3-butadiene	88	2.163	2.163	0.000	90	11609	5.00	4.68	
38 1,1-Dichloroethane	63	2.172	2.171	0.001	99	27437	5.00	4.96	
39 Acrylonitrile	53	2.213	2.229	-0.016	97	35237	50.0	50.5	
40 Tert-butyl ethyl ether	59	2.328	2.328	0.000	90	40702	5.00	4.67	
41 Vinyl acetate	86	2.344	2.353	-0.008	100	4585	10.0	9.49	
42 cis-1,2-Dichloroethene	96	2.525	2.525	0.000	97	15574	5.00	4.82	
43 2,2-Dichloropropane	77	2.583	2.583	0.000	97	20435	5.00	5.04	
44 Cyclohexane	56	2.641	2.641	0.000	92	14769	5.00	4.59	
45 Chlorobromomethane	128	2.657	2.657	0.000	92	7549	5.00	5.14	
46 Chloroform	83	2.715	2.715	0.000	98	23419	5.00	4.69	
47 Carbon tetrachloride	117	2.797	2.797	0.000	97	14949	5.00	4.74	
49 Ethyl acetate	70	2.813	2.822	-0.009	99	2810	10.0	10.7	
48 Methyl acrylate	55	2.822	2.830	-0.008	73	7563	5.00	3.74	
50 Tetrahydrofuran	42	2.822	2.838	-0.016	95	7332	10.0	9.02	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	98	123664	50.0	50.8	
52 1,1,1-Trichloroethane	97	2.846	2.846	0.000	46	19197	5.00	4.82	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	99	191551	250.0	250.0	
54 1,1-Dichloropropene	75	2.937	2.937	0.000	94	19719	5.00	5.01	
55 2-Butanone (MEK)	72	2.953	2.945	0.008	92	5799	25.0	20.9	
56 Isooctane	57	3.019	3.019	0.000	98	22241	5.00	4.64	
57 n-Heptane	57	3.110	3.110	0.000	94	4861	5.00	4.68	
58 Benzene	78	3.126	3.126	0.000	96	59296	5.00	4.99	
59 Propionitrile	54	3.167	3.175	-0.008	93	12958	50.0	48.3	
60 Methacrylonitrile	67	3.176	3.184	-0.008	92	44990	50.0	48.3	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	96	129943	50.0	51.8	
62 Tert-amyl methyl ether	73	3.233	3.233	0.000	93	36573	5.00	4.79	
63 1,2-Dichloroethane	62	3.291	3.291	0.000	96	17274	5.00	4.89	
64 Isobutyl alcohol	43	3.365	3.381	-0.016	97	8317	125.0	102.5	
65 t-Amyl alcohol	59	3.431	3.431	0.000	98	6714	NC	NC	
* 66 Fluorobenzene	96	3.464	3.464	0.000	99	495100	50.0	50.0	
67 Isopropyl acetate	43	3.538	3.546	-0.008	99	19638	5.00	4.55	
68 Methylcyclohexane	83	3.587	3.579	0.008	94	11760	5.00	4.86	
69 Trichloroethene	95	3.612	3.612	0.000	96	13513	5.00	4.65	
70 2-ethoxy-2-methyl butane	59	3.842	3.842	0.000	98	32208	NC	NC	
71 Dibromomethane	93	3.982	3.990	-0.008	96	8141	5.00	4.84	
73 1,2-Dichloropropane	63	4.064	4.064	0.000	92	15673	5.00	4.85	
74 Dichlorobromomethane	83	4.147	4.147	0.000	99	18328	5.00	4.88	
75 Ethyl acrylate	55	4.155	4.180	-0.025	53	10506	5.00	3.83	
72 n-Butanol	56	4.015	4.254	-0.239	55	3498	125.0	71.2	Ma
* 76 1,4-Dioxane-d8	96	4.336	4.328	0.008	96	18522	1000.0	1000.0	
77 Methyl methacrylate	100	4.344	4.344	0.000	89	5257	10.0	8.97	
78 1,4-Dioxane	88	4.361	4.361	0.000	34	2848	100.0	116.0	
79 n-Propyl acetate	43	4.509	4.517	-0.008	98	13641	5.00	4.50	
80 2-Chloroethyl vinyl ether	63	4.764	4.797	-0.033	98	4363	5.01	3.01	
81 cis-1,3-Dichloropropene	75	4.789	4.797	-0.008	93	21009	5.00	4.58	
$ 82 Toluene-d8 (Surr)	98	4.970	4.970	0.000	99	452492	50.0	50.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	5.027	5.035	-0.008	94	54875	5.00	4.77	
84 Epichlorohydrin	57	5.077	5.093	-0.016	99	14216	100.0	84.0	
85 2-Nitropropane	41	5.299	5.299	0.000	100	4522	10.0	9.94	
86 Tetrachloroethene	166	5.447	5.447	0.000	95	11409	5.00	4.98	
87 4-Methyl-2-pentanone (MIBK)	43	5.505	5.504	0.001	97	46294	25.0	22.3	
88 trans-1,3-Dichloropropene	75	5.538	5.546	-0.008	97	19054	5.00	4.74	
89 1,1,2-Trichloroethane	83	5.702	5.710	-0.008	94	10184	5.00	5.13	
90 Ethyl methacrylate	69	5.793	5.793	0.000	90	13016	5.00	4.34	
91 Chlorodibromomethane	129	5.900	5.900	0.000	96	12475	5.00	4.82	
92 1,3-Dichloropropane	76	6.023	6.023	0.000	93	19852	5.00	4.75	
93 Ethylene Dibromide	107	6.147	6.163	-0.016	99	10355	5.00	4.73	
94 n-Butyl acetate	43	6.500	6.500	0.000	98	11406	5.00	3.37	
95 2-Hexanone	43	6.558	6.574	-0.016	95	29105	25.0	20.9	
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	86	366410	50.0	50.0	
97 Chlorobenzene	112	6.838	6.838	0.000	93	35753	5.00	4.97	
98 Ethylbenzene	106	6.928	6.936	-0.008	99	15919	5.00	4.79	
99 1,1,1,2-Tetrachloroethane	133	6.961	6.953	0.008	92	11570	5.00	4.73	
100 m-Xylene & p-Xylene	106	7.142	7.150	-0.008	96	19586	5.00	4.83	
101 o-Xylene	106	7.727	7.727	0.001	93	17906	5.00	4.52	
102 Bromoform	173	7.792	7.792	0.000	94	7852	5.00	4.94	
103 Styrene	104	7.817	7.833	-0.016	96	29736	5.00	4.40	
104 n-Butyl acrylate	73	8.155	8.163	-0.008	97	6175	5.00	3.44	
105 Isopropylbenzene	105	8.204	8.212	-0.008	96	38195	5.00	4.61	
106 Amyl acetate (mixed isomers)	43	8.566	8.574	-0.008	91	15997	5.00	4.30	
$ 107 4-Bromofluorobenzene	174	8.583	8.582	0.001	94	129141	50.0	50.1	
108 Bromobenzene	156	8.690	8.698	-0.008	95	14746	5.00	5.00	
109 N-Propylbenzene	91	8.838	8.838	0.000	98	44612	5.00	4.71	
110 1,1,2,2-Tetrachloroethane	83	8.994	9.002	-0.008	89	13806	5.00	5.09	
111 2-Chlorotoluene	91	9.010	9.019	-0.009	97	35761	5.00	4.86	
112 4-Ethyltoluene	105	9.027	9.035	-0.008	98	37220	5.00	4.70	
113 1,2,3-Trichloropropane	110	9.134	9.134	0.000	97	3736	5.00	4.94	
114 1,3,5-Trimethylbenzene	105	9.183	9.183	0.000	94	29279	5.00	4.52	
116 4-Chlorotoluene	91	9.282	9.290	-0.008	97	32973	5.00	4.77	
115 trans-1,4-Dichloro-2-butene	75	9.274	9.298	-0.024	42	4756	5.00	3.95	
117 tert-Butylbenzene	119	9.644	9.652	-0.008	94	23393	5.00	4.46	
119 1,2,4-Trimethylbenzene	105	9.776	9.784	-0.008	97	31892	5.00	4.68	
118 Butyl Methacrylate	87	9.784	9.800	-0.016	94	10966	5.00	3.30	
120 sec-Butylbenzene	105	9.932	9.940	-0.008	98	33138	5.00	4.53	
121 1,3-Dichlorobenzene	146	10.204	10.212	-0.008	95	21762	5.00	4.85	
122 4-Isopropyltoluene	119	10.212	10.212	0.000	98	28441	5.00	4.47	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	95	155959	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.352	10.360	-0.008	93	23871	5.00	4.90	
125 1,2,3-Trimethylbenzene	105	10.459	10.459	0.000	98	34710	5.00	4.72	
126 2,3-Dihydroindene	117	10.632	10.632	0.000	94	36208	5.00	4.56	
128 Benzyl chloride	126	10.821	10.821	0.000	97	4045	5.00	4.04	
127 p-Diethylbenzene	119	10.821	10.829	-0.008	69	14333	5.00	4.42	
129 n-Butylbenzene	92	10.912	10.911	0.001	99	13410	5.00	4.39	
130 1,2-Dichlorobenzene	146	11.027	11.035	-0.008	97	22186	5.00	4.80	
131 1,2,4,5-Tetramethylbenzene	119	11.874	11.874	0.000	98	23955	5.00	4.08	
132 1,2-Dibromo-3-Chloropropane	157	11.998	11.998	0.000	94	2602	5.00	4.79	
133 1,3,5-Trichlorobenzene	180	12.023	12.031	-0.008	96	13312	5.00	4.67	
134 1,2,4-Trichlorobenzene	180	12.541	12.549	-0.008	95	11362	5.00	4.52	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.549	12.549	0.000	91	5883	5.00	4.81	
136 Naphthalene	128	12.755	12.763	-0.008	99	23558	5.00	4.35	
137 1,2,3-Trichlorobenzene	180	12.878	12.878	0.000	94	10451	5.00	4.80	
S 138 1,2-Dichloroethene, Total	100				0		10.0	9.90	
S 139 1,3-Dichloropropene, Total	100				0		10.0	9.31	
S 140 Xylenes, Total	100				0		10.0	9.35	
S 141 Total BTEX	1				0		25.0	23.9	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

ACROLEIN W_00117	Amount Added:	4.00	Units: uL	
8260MIX1COMB_00130	Amount Added:	10.00	Units: uL	
GASES Li_00402	Amount Added:	10.00	Units: uL	
524freon_00031	Amount Added:	10.00	Units: uL	
8260ISNEW_00140	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00214	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 08-Jan-2021 19:10:00 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21522.D

Injection Date: 07-Jan-2021 22:09:30 Instrument ID: CVOAMS5 Operator ID:

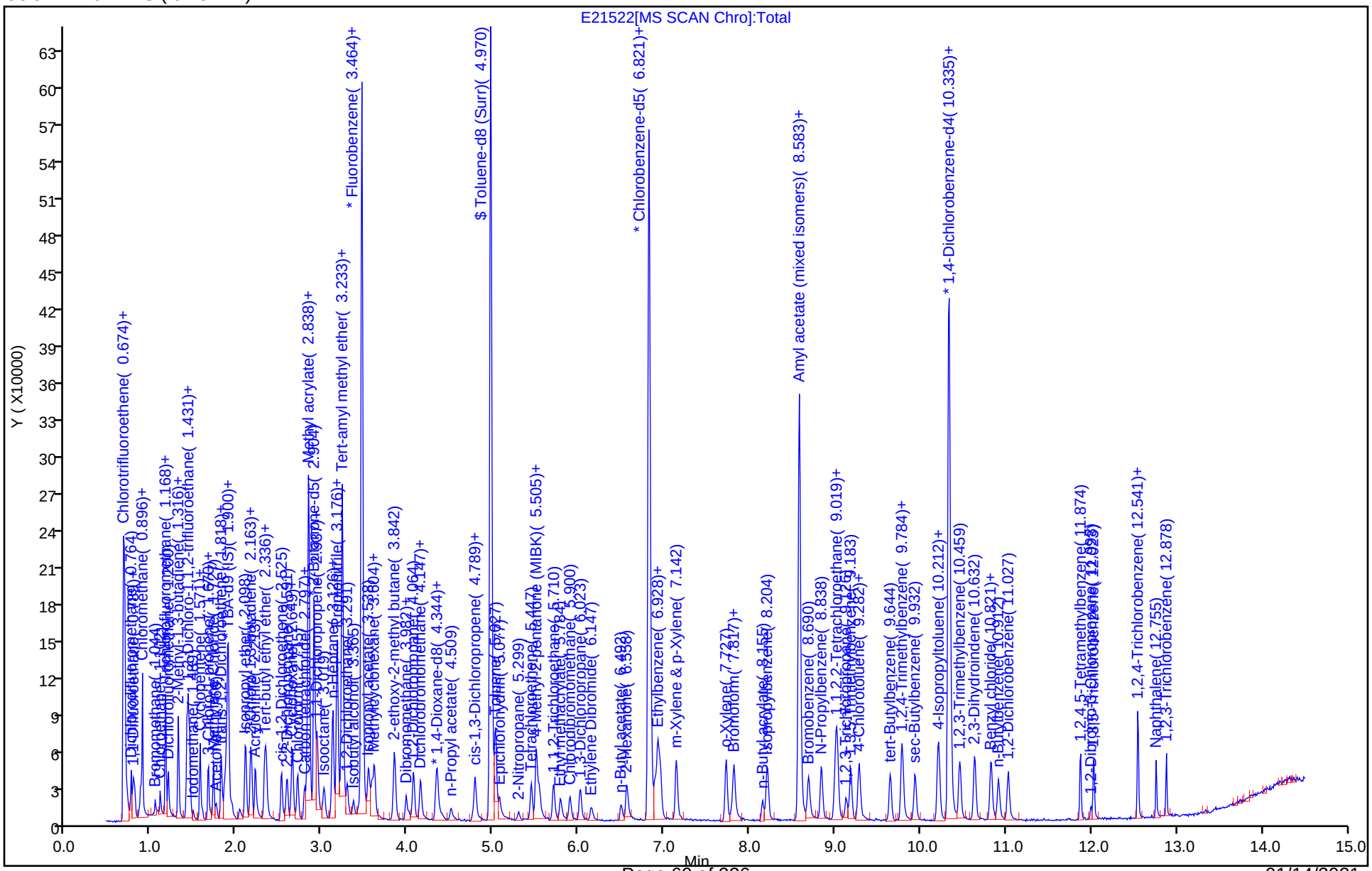
Lims ID: STD5 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260W_5 Limit Group: VOA - 8260D Water and Solid

Column: Rtx-VMS (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21523.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 07-Jan-2021 22:34:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0122590-006
Operator ID: Instrument ID: CVOAMS5
Sublist: chrom-8260W_5*sub65

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 08-Jan-2021 19:09:10 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: kluseys Date: 08-Jan-2021 19:09:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.756	0.756	0.000	84	15167	20.0	16.0	
1 Monochloropentafluoroethane	119	0.707	0.707	0.000	85	6916	NC	NC	
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	98	77368	20.0	20.6	
4 1,1-Difluoroethane	65	0.789	0.789	0.000	97	33799	NC	NC	
5 Chlorodifluoromethane	67	0.805	0.805	0.000	96	11753	20.0	19.8	a
6 Chloromethane	50	0.879	0.879	0.000	98	109052	20.0	19.9	
7 Vinyl chloride	62	0.888	0.888	0.000	98	75330	20.0	19.8	
8 Butadiene	54	0.896	0.896	0.000	96	70622	20.0	20.0	
9 Bromomethane	94	1.044	1.044	0.000	99	22959	20.0	19.2	
10 Chloroethane	64	1.102	1.102	0.000	98	41016	20.0	23.0	
11 Trichlorofluoromethane	101	1.167	1.167	0.000	80	73890	20.0	20.2	
13 Dichlorofluoromethane	67	1.200	1.200	0.000	99	90435	20.0	19.9	
12 Pentane	72	1.167	1.167	0.000	97	11801	40.0	42.6	
14 2-Methyl-1,3-butadiene	67	1.316	1.316	0.000	97	71765	20.0	20.2	
15 Ethyl ether	59	1.316	1.316	0.000	96	41073	20.0	19.9	
17 1,1-Dichloroethene	96	1.414	1.414	0.000	98	46877	20.0	20.3	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.414	1.414	0.000	74	57526	20.0	17.5	
19 Carbon disulfide	76	1.431	1.431	0.000	98	174737	20.0	20.3	
20 112TCTFE	101	1.439	1.439	0.000	94	38735	20.0	21.8	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.447	1.447	0.000	95	74820	20.0	20.8	
16 Ethanol	45	1.398	1.398	0.000	99	16686	800.0	766.9	a
22 Iodomethane	142	1.488	1.488	0.000	97	28794	20.0	9.77	
23 Cyclopentene	67	1.571	1.571	0.000	96	130891	20.0	20.5	
24 Acrolein	56	1.595	1.595	0.000	87	8198	40.0	37.8	
26 Isopropyl alcohol	45	1.694	1.694	0.000	98	18701	200.0	195.1	
25 3-Chloro-1-propene	76	1.669	1.669	0.000	95	34718	20.0	20.3	
27 Methylene Chloride	84	1.727	1.727	0.000	93	61145	20.0	20.3	
28 Acetone	58	1.760	1.760	0.000	86	15894	100.0	86.6	
29 trans-1,2-Dichloroethene	96	1.818	1.818	0.000	95	58863	20.0	20.2	
30 Methyl acetate	74	1.826	1.826	0.000	100	12267	40.0	38.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.859	1.859	0.000	80	6960	20.0	20.8	
32 Methyl tert-butyl ether	73	1.875	1.875	0.000	96	147976	20.0	20.4	
35 Acetonitrile	41	1.875	1.875	0.000	59	58983	200.0	216.7	
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	100	137737	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.941	1.941	0.000	99	33238	200.0	186.3	
36 Isopropyl ether	45	2.097	2.097	0.000	97	199816	20.0	20.4	
37 2-Chloro-1,3-butadiene	88	2.155	2.155	0.000	90	48738	20.0	20.0	
38 1,1-Dichloroethane	63	2.171	2.171	0.000	100	113220	20.0	20.8	
39 Acrylonitrile	53	2.213	2.213	0.000	93	149515	200.0	218.2	
40 Tert-butyl ethyl ether	59	2.328	2.328	0.000	88	176919	20.0	20.6	
41 Vinyl acetate	86	2.344	2.344	0.000	100	18825	40.0	39.7	
42 cis-1,2-Dichloroethene	96	2.517	2.517	0.000	97	66052	20.0	20.8	
43 2,2-Dichloropropane	77	2.591	2.591	0.000	97	81921	20.0	20.6	
44 Cyclohexane	56	2.641	2.641	0.000	91	63857	20.0	20.2	
45 Chlorobromomethane	128	2.657	2.657	0.000	95	29825	20.0	20.6	
46 Chloroform	83	2.715	2.715	0.000	98	102037	20.0	20.8	
48 Methyl acrylate	55	2.813	2.813	0.000	98	39650	20.0	19.9	
47 Carbon tetrachloride	117	2.797	2.797	0.000	98	62349	20.0	20.1	
49 Ethyl acetate	70	2.813	2.813	0.000	98	10294	40.0	40.1	
50 Tetrahydrofuran	42	2.822	2.822	0.000	91	32456	40.0	40.7	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	98	121315	50.0	50.7	
52 1,1,1-Trichloroethane	97	2.846	2.846	0.000	98	78202	20.0	20.0	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	100	188117	250.0	250.0	
54 1,1-Dichloropropene	75	2.937	2.937	0.000	96	77432	20.0	20.0	
55 2-Butanone (MEK)	72	2.945	2.945	0.000	99	26765	100.0	98.2	
56 Isooctane	57	3.019	3.019	0.000	100	97165	20.0	20.6	
57 n-Heptane	57	3.110	3.110	0.000	93	21061	20.0	20.6	
59 Propionitrile	54	3.159	3.159	0.000	99	51700	200.0	193.9	
58 Benzene	78	3.126	3.126	0.000	95	250150	20.0	20.8	
62 Tert-amyl methyl ether	73	3.233	3.233	0.000	97	152525	20.0	20.3	
60 Methacrylonitrile	67	3.167	3.167	0.000	91	198401	200.0	216.9	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	95	124716	50.0	50.5	
63 1,2-Dichloroethane	62	3.291	3.291	0.000	96	68536	20.0	19.8	
65 t-Amyl alcohol	59	3.422	3.422	0.000	98	25458	NC	NC	
64 Isobutyl alcohol	43	3.357	3.357	0.000	96	37016	500.0	458.7	
* 66 Fluorobenzene	96	3.463	3.463	0.000	99	486595	50.0	50.0	
67 Isopropyl acetate	43	3.538	3.538	0.000	99	84966	20.0	20.0	
68 Methylcyclohexane	83	3.587	3.587	0.000	95	48392	20.0	20.4	
69 Trichloroethene	95	3.603	3.603	0.000	98	56998	20.0	20.0	
70 2-ethoxy-2-methyl butane	59	3.842	3.842	0.000	97	140443	NC	NC	
71 Dibromomethane	93	3.974	3.974	0.000	97	32755	20.0	19.8	
73 1,2-Dichloropropane	63	4.064	4.064	0.000	93	64622	20.0	20.4	
74 Dichlorobromomethane	83	4.147	4.147	0.000	99	74971	20.0	20.3	
75 Ethyl acrylate	55	4.147	4.147	0.000	70	52876	20.0	19.6	
72 n-Butanol	56	3.990	3.990	0.000	88	19214	500.0	392.1	
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	96	18815	1000.0	1000.0	
77 Methyl methacrylate	100	4.344	4.344	0.000	89	23117	40.0	40.1	
78 1,4-Dioxane	88	4.352	4.352	0.000	96	10035	400.0	402.4	
79 n-Propyl acetate	43	4.500	4.500	0.000	98	58757	20.0	19.7	
80 2-Chloroethyl vinyl ether	63	4.756	4.756	0.000	97	23633	20.0	16.6	
81 cis-1,3-Dichloropropene	75	4.788	4.788	0.000	92	95208	20.0	20.5	
$ 82 Toluene-d8 (Surr)	98	4.970	4.970	0.000	99	452764	50.0	50.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	5.027	5.027	0.000	93	237336	20.0	20.4	
84 Epichlorohydrin	57	5.068	5.068	0.000	99	71381	400.0	429.5	
85 2-Nitropropane	41	5.290	5.290	0.000	98	17144	40.0	37.9	
86 Tetrachloroethene	166	5.447	5.447	0.000	97	46551	20.0	20.1	
87 4-Methyl-2-pentanone (MIBK)	43	5.496	5.496	0.000	95	208475	100.0	102.2	
88 trans-1,3-Dichloropropene	75	5.529	5.529	0.000	95	82541	20.0	20.3	
89 1,1,2-Trichloroethane	83	5.702	5.702	0.000	96	40553	20.0	20.2	
90 Ethyl methacrylate	69	5.784	5.784	0.000	90	60831	20.0	20.1	
91 Chlorodibromomethane	129	5.899	5.899	0.000	98	53511	20.0	20.5	
92 1,3-Dichloropropane	76	6.015	6.015	0.000	93	86656	20.0	20.5	
93 Ethylene Dibromide	107	6.138	6.138	0.000	99	45554	20.0	20.6	
94 n-Butyl acetate	43	6.492	6.492	0.000	98	59534	20.0	17.4	
95 2-Hexanone	43	6.558	6.558	0.000	96	135408	100.0	98.9	
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	86	370241	50.0	50.0	
97 Chlorobenzene	112	6.846	6.846	0.000	94	146528	20.0	20.1	
98 Ethylbenzene	106	6.928	6.928	0.000	99	66954	20.0	19.9	
99 1,1,1,2-Tetrachloroethane	133	6.953	6.953	0.000	94	48373	20.0	19.6	
100 m-Xylene & p-Xylene	106	7.142	7.142	0.000	96	79911	20.0	19.5	
101 o-Xylene	106	7.726	7.726	0.000	94	80175	20.0	20.0	
102 Bromoform	173	7.792	7.792	0.000	95	32771	20.0	20.1	
103 Styrene	104	7.817	7.817	0.000	96	143487	20.0	21.0	
104 n-Butyl acrylate	73	8.146	8.146	0.000	99	30937	20.0	17.0	
105 Isopropylbenzene	105	8.204	8.204	0.000	96	169665	20.0	20.3	
106 Amyl acetate (mixed isomers)	43	8.558	8.558	0.000	91	74542	20.0	19.6	
$ 107 4-Bromofluorobenzene	174	8.582	8.582	0.000	93	131314	50.0	50.4	
108 Bromobenzene	156	8.689	8.689	0.000	96	60395	20.0	20.0	
109 N-Propylbenzene	91	8.837	8.837	0.000	99	198883	20.0	20.5	
110 1,1,2,2-Tetrachloroethane	83	8.994	8.994	0.000	97	55063	20.0	19.8	
112 4-Ethyltoluene	105	9.027	9.027	0.000	99	166708	20.0	20.5	
111 2-Chlorotoluene	91	9.010	9.010	0.000	97	154251	20.0	20.5	
113 1,2,3-Trichloropropane	110	9.126	9.126	0.000	98	15041	20.0	19.4	
114 1,3,5-Trimethylbenzene	105	9.183	9.183	0.000	94	136021	20.0	20.5	
116 4-Chlorotoluene	91	9.274	9.274	0.000	98	146526	20.0	20.7	
115 trans-1,4-Dichloro-2-butene	75	9.257	9.257	0.000	90	23663	20.0	19.2	
117 tert-Butylbenzene	119	9.644	9.644	0.000	95	107543	20.0	20.0	
119 1,2,4-Trimethylbenzene	105	9.776	9.776	0.000	97	142342	20.0	20.4	
118 Butyl Methacrylate	87	9.792	9.792	0.000	92	59051	20.0	17.3	
120 sec-Butylbenzene	105	9.932	9.932	0.000	99	152648	20.0	20.4	
121 1,3-Dichlorobenzene	146	10.195	10.195	0.000	96	93767	20.0	20.4	
122 4-Isopropyltoluene	119	10.212	10.212	0.000	98	133691	20.0	20.5	
124 1,4-Dichlorobenzene	146	10.352	10.352	0.000	95	101065	20.0	20.2	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	94	159922	50.0	50.0	
125 1,2,3-Trimethylbenzene	105	10.459	10.459	0.000	99	156563	20.0	20.8	
126 2,3-Dihydroindene	117	10.632	10.632	0.000	95	167345	20.0	20.5	
128 Benzyl chloride	126	10.813	10.813	0.000	98	20543	20.0	20.0	
127 p-Diethylbenzene	119	10.829	10.829	0.000	95	65685	20.0	19.8	
129 n-Butylbenzene	92	10.911	10.911	0.000	98	63067	20.0	20.1	
130 1,2-Dichlorobenzene	146	11.027	11.027	0.000	97	95182	20.0	20.1	
131 1,2,4,5-Tetramethylbenzene	119	11.874	11.874	0.000	98	122223	20.0	20.3	
132 1,2-Dibromo-3-Chloropropane	157	11.989	11.989	0.000	92	11474	20.0	20.6	
133 1,3,5-Trichlorobenzene	180	12.022	12.022	0.000	98	60126	20.0	20.6	
134 1,2,4-Trichlorobenzene	180	12.541	12.541	0.000	94	52515	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.549	12.549	0.000	97	25735	20.0	20.5	
136 Naphthalene	128	12.755	12.755	0.000	99	122190	20.0	22.0	
137 1,2,3-Trichlorobenzene	180	12.878	12.878	0.000	96	46756	20.0	20.9	
S 138 1,2-Dichloroethene, Total	100				0		40.0	41.0	
S 139 1,3-Dichloropropene, Total	100				0		40.0	40.8	
S 140 Xylenes, Total	100				0		40.0	39.5	
S 141 Total BTEX	1				0		100.0	100.8	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

ACROLEIN W_00117	Amount Added: 4.00	Units: uL		
8260MIX1COMB_00130	Amount Added: 20.00	Units: uL		
GASES Li_00402	Amount Added: 20.00	Units: uL		
524freon_00031	Amount Added: 20.00	Units: uL		
8260ISNEW_00140	Amount Added: 1.00	Units: uL	Run Reagent	
8260SURR250_00214	Amount Added: 1.00	Units: uL	Run Reagent	

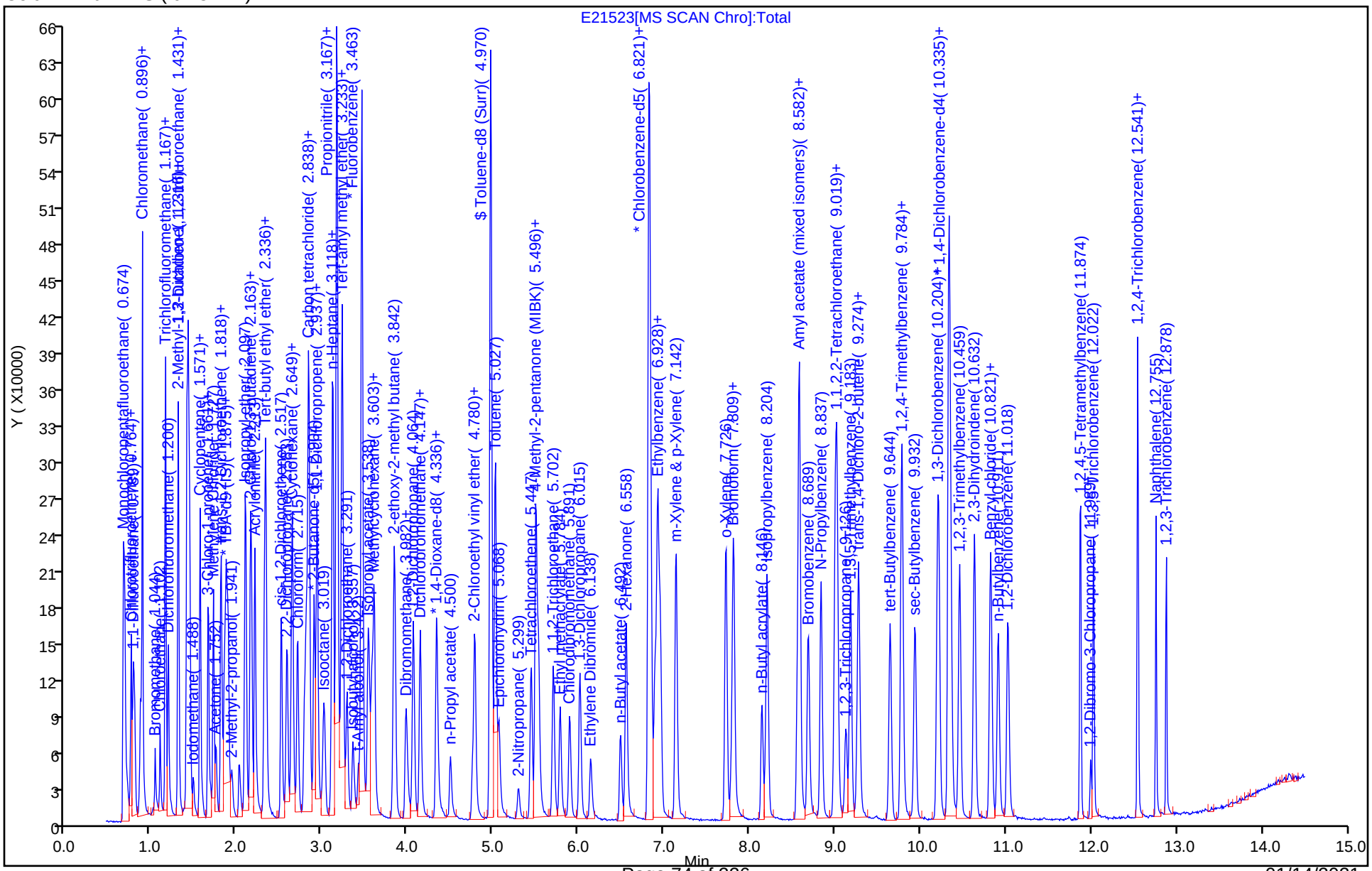
Report Date: 08-Jan-2021 19:09:12 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21523.D

Injection Date:	07-Jan-2021 22:34:30	Instrument ID:	CVOAMS5	Operator ID:	
Lims ID:	STD20			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260W_5	Limit Group:	VOA - 8260D Water and Solid		

Column: Rtx-VMS (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21524.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 07-Jan-2021 22:59:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0122590-007
Operator ID: Instrument ID: CVOAMS5
Sublist: chrom-8260W_5*sub65

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 08-Jan-2021 19:10:22 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: kluseys Date: 08-Jan-2021 15:53:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.756	0.665	0.091	84	45235	50.0	47.4	
1 Monochloropentafluoroethane	119	0.707	0.682	0.025	84	11320	NC	NC	
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	99	197352	50.0	52.6	
4 1,1-Difluoroethane	65	0.789	0.789	0.000	97	85721	NC	NC	
5 Chlorodifluoromethane	67	0.805	0.805	0.000	97	29324	50.0	49.6	a
6 Chloromethane	50	0.879	0.871	0.008	98	272016	50.0	49.7	
7 Vinyl chloride	62	0.888	0.896	-0.008	98	192306	50.0	50.7	
8 Butadiene	54	0.896	0.896	0.000	96	177212	50.0	50.4	
9 Bromomethane	94	1.044	1.044	0.000	99	58627	50.0	49.0	
10 Chloroethane	64	1.102	1.102	0.000	99	76594	50.0	43.6	
11 Trichlorofluoromethane	101	1.167	1.167	0.000	97	182171	50.0	50.0	
12 Pentane	72	1.159	1.167	-0.008	98	28411	100.0	104.2	
13 Dichlorofluoromethane	67	1.200	1.200	0.000	99	222297	50.0	49.1	
14 2-Methyl-1,3-butadiene	67	1.307	1.316	-0.009	97	179678	50.0	50.6	
15 Ethyl ether	59	1.316	1.316	0.000	96	102243	50.0	49.5	
16 Ethanol	45	1.406	1.324	0.082	29	39401	2000.0	1827.6	a
17 1,1-Dichloroethene	96	1.414	1.414	0.000	98	117510	50.0	50.9	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.414	1.414	0.000	84	173669	50.0	52.8	
19 Carbon disulfide	76	1.431	1.431	0.000	99	426293	50.0	49.6	
20 112TCTFE	101	1.439	1.439	0.000	97	94459	50.0	53.2	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.447	1.447	0.000	94	177317	50.0	49.4	
22 Iodomethane	142	1.488	1.497	-0.009	96	114693	50.0	38.9	
23 Cyclopentene	67	1.571	1.571	0.000	96	329197	50.0	51.5	
24 Acrolein	56	1.595	1.595	0.000	94	21321	100.0	99.1	
25 3-Chloro-1-propene	76	1.661	1.669	-0.008	94	86647	50.0	50.8	
26 Isopropyl alcohol	45	1.694	1.686	0.008	98	46204	500.0	486.4	
27 Methylene Chloride	84	1.727	1.727	0.000	93	150997	50.0	50.3	
28 Acetone	58	1.760	1.768	-0.008	88	39123	250.0	216.6	
29 trans-1,2-Dichloroethene	96	1.809	1.818	-0.009	95	146198	50.0	50.3	
30 Methyl acetate	74	1.826	1.826	0.000	99	31557	100.0	99.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.851	1.859	-0.008	91	18196	50.0	56.2	
35 Acetonitrile	41	1.859	1.875	-0.016	72	143822	500.0	533.2	
32 Methyl tert-butyl ether	73	1.875	1.875	0.000	97	362243	50.0	50.0	
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	100	136476	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.941	1.941	0.000	99	82946	500.0	469.3	
36 Isopropyl ether	45	2.097	2.097	0.000	97	496525	50.0	50.7	
37 2-Chloro-1,3-butadiene	88	2.155	2.163	-0.008	90	124499	50.0	51.1	
38 1,1-Dichloroethane	63	2.172	2.171	0.001	99	276310	50.0	50.9	
39 Acrylonitrile	53	2.213	2.229	-0.016	94	373687	500.0	546.2	
40 Tert-butyl ethyl ether	59	2.328	2.328	0.000	89	438854	50.0	51.3	
41 Vinyl acetate	86	2.344	2.353	-0.008	100	56275	100.0	120.6	
42 cis-1,2-Dichloroethene	96	2.517	2.525	-0.008	97	158524	50.0	50.0	
43 2,2-Dichloropropane	77	2.583	2.583	0.000	97	203667	50.0	51.2	
44 Cyclohexane	56	2.641	2.641	0.000	90	161335	50.0	51.1	
45 Chlorobromomethane	128	2.649	2.657	-0.008	94	74011	50.0	51.3	
46 Chloroform	83	2.706	2.715	-0.009	99	249545	50.0	50.9	
47 Carbon tetrachloride	117	2.797	2.797	0.000	98	154894	50.0	50.0	
49 Ethyl acetate	70	2.805	2.822	-0.017	99	24700	100.0	97.7	
48 Methyl acrylate	55	2.813	2.830	-0.017	99	101074	50.0	50.9	
50 Tetrahydrofuran	42	2.822	2.838	-0.016	96	83375	100.0	106.1	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	97	124052	50.0	51.9	
52 1,1,1-Trichloroethane	97	2.846	2.846	0.000	99	196406	50.0	50.2	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	99	185075	250.0	250.0	
54 1,1-Dichloropropene	75	2.937	2.937	0.000	94	188531	50.0	48.9	
55 2-Butanone (MEK)	72	2.937	2.945	-0.008	97	67729	250.0	252.6	
56 Isooctane	57	3.019	3.019	0.000	99	252858	50.0	53.8	
57 n-Heptane	57	3.110	3.110	0.000	94	53483	50.0	52.4	
58 Benzene	78	3.126	3.126	0.000	96	612158	50.0	50.7	
59 Propionitrile	54	3.159	3.175	-0.016	99	130349	500.0	493.5	
60 Methacrylonitrile	67	3.167	3.184	-0.017	91	491862	500.0	538.4	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	93	125437	50.0	50.9	
62 Tert-amyl methyl ether	73	3.233	3.233	0.000	98	383206	50.0	51.1	
63 1,2-Dichloroethane	62	3.291	3.291	0.000	96	172951	50.0	49.9	
64 Isobutyl alcohol	43	3.357	3.381	-0.024	95	91302	1250.0	1141.9	
65 t-Amyl alcohol	59	3.422	3.431	-0.009	99	66063	NC	NC	
* 66 Fluorobenzene	96	3.464	3.464	0.000	99	485834	50.0	50.0	
67 Isopropyl acetate	43	3.529	3.546	-0.017	99	220827	50.0	52.2	
68 Methylcyclohexane	83	3.579	3.579	0.000	95	125351	50.0	52.8	
69 Trichloroethene	95	3.603	3.612	-0.009	98	136711	50.0	48.0	
70 2-ethoxy-2-methyl butane	59	3.842	3.842	0.000	98	359682	NC	NC	
71 Dibromomethane	93	3.974	3.990	-0.016	96	81980	50.0	49.7	
73 1,2-Dichloropropane	63	4.064	4.064	0.000	95	163994	50.0	51.8	
74 Dichlorobromomethane	83	4.147	4.147	0.000	99	185811	50.0	50.4	
75 Ethyl acrylate	55	4.147	4.180	-0.033	74	143047	50.0	53.2	
72 n-Butanol	56	3.982	4.254	-0.272	88	55141	1250.0	1127.2	
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	38	19650	1000.0	1000.0	
77 Methyl methacrylate	100	4.336	4.344	-0.008	90	61030	100.0	106.1	
78 1,4-Dioxane	88	4.352	4.361	-0.009	97	23409	1000.0	898.8	
79 n-Propyl acetate	43	4.492	4.517	-0.025	100	154480	50.0	51.9	
80 2-Chloroethyl vinyl ether	63	4.756	4.797	-0.041	97	66458	50.1	46.5	
81 cis-1,3-Dichloropropene	75	4.780	4.797	-0.017	92	244492	50.0	52.4	
$ 82 Toluene-d8 (Surr)	98	4.970	4.970	0.000	99	453883	50.0	50.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	5.027	5.035	-0.008	93	595608	50.0	51.0	
84 Epichlorohydrin	57	5.060	5.093	-0.033	99	186610	1000.0	1141.2	
85 2-Nitropropane	41	5.291	5.299	-0.008	98	45559	100.0	101.6	
86 Tetrachloroethene	166	5.447	5.447	0.000	98	118458	50.0	50.8	
87 4-Methyl-2-pentanone (MIBK)	43	5.496	5.504	-0.008	95	525140	250.0	261.7	
88 trans-1,3-Dichloropropene	75	5.529	5.546	-0.017	94	209326	50.0	51.2	
89 1,1,2-Trichloroethane	83	5.702	5.710	-0.008	96	102364	50.0	50.7	
90 Ethyl methacrylate	69	5.784	5.793	-0.009	89	160268	50.0	52.5	
91 Chlorodibromomethane	129	5.891	5.900	-0.009	98	133343	50.0	50.7	
92 1,3-Dichloropropane	76	6.015	6.023	-0.008	94	216468	50.0	50.9	
93 Ethylene Dibromide	107	6.138	6.163	-0.025	100	113990	50.0	51.2	
94 n-Butyl acetate	43	6.484	6.500	-0.016	99	161056	50.0	46.4	
95 2-Hexanone	43	6.550	6.574	-0.024	96	361912	250.0	268.6	
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	85	372626	50.0	50.0	
97 Chlorobenzene	112	6.846	6.838	0.008	95	367841	50.0	50.2	
98 Ethylbenzene	106	6.920	6.936	-0.016	98	176698	50.0	52.3	
99 1,1,1,2-Tetrachloroethane	133	6.953	6.953	0.000	96	126272	50.0	50.7	
100 m-Xylene & p-Xylene	106	7.134	7.150	-0.016	96	212505	50.0	51.6	
101 o-Xylene	106	7.727	7.727	0.001	94	210784	50.0	52.3	
102 Bromoform	173	7.792	7.792	0.000	96	84165	50.0	52.1	
103 Styrene	104	7.809	7.833	-0.024	96	377606	50.0	55.0	
104 n-Butyl acrylate	73	8.138	8.163	-0.025	98	84757	50.0	45.9	
105 Isopropylbenzene	105	8.204	8.212	-0.008	95	441419	50.0	52.4	
106 Amyl acetate (mixed isomers)	43	8.558	8.574	-0.016	91	199705	50.0	52.9	
$ 107 4-Bromofluorobenzene	174	8.582	8.582	0.000	93	134425	50.0	51.2	
108 Bromobenzene	156	8.689	8.698	-0.009	98	149765	50.0	50.0	
109 N-Propylbenzene	91	8.838	8.838	0.000	99	510903	50.0	53.1	
110 1,1,2,2-Tetrachloroethane	83	8.994	9.002	-0.008	98	141186	50.0	51.3	
111 2-Chlorotoluene	91	9.010	9.019	-0.009	97	389726	50.0	52.2	
112 4-Ethyltoluene	105	9.027	9.035	-0.008	98	429623	50.0	53.4	
113 1,2,3-Trichloropropane	110	9.126	9.134	-0.008	98	38546	50.0	50.2	
114 1,3,5-Trimethylbenzene	105	9.183	9.183	0.000	94	358239	50.0	54.4	
116 4-Chlorotoluene	91	9.274	9.290	-0.016	98	375103	50.0	53.5	
115 trans-1,4-Dichloro-2-butene	75	9.257	9.298	-0.041	91	61525	50.0	50.3	
117 tert-Butylbenzene	119	9.644	9.652	-0.008	95	282198	50.0	52.9	
119 1,2,4-Trimethylbenzene	105	9.776	9.784	-0.008	97	375892	50.0	54.3	
118 Butyl Methacrylate	87	9.784	9.800	-0.016	92	161529	50.0	47.5	
120 sec-Butylbenzene	105	9.932	9.940	-0.008	99	397317	50.0	53.5	
121 1,3-Dichlorobenzene	146	10.195	10.212	-0.017	96	236712	50.0	51.9	
122 4-Isopropyltoluene	119	10.212	10.212	0.000	98	354479	50.0	54.9	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	93	158423	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.352	10.360	-0.008	94	253695	50.0	51.3	
125 1,2,3-Trimethylbenzene	105	10.459	10.459	0.000	98	405802	50.0	54.3	
126 2,3-Dihydroindene	117	10.632	10.632	0.000	95	430713	50.0	53.4	
128 Benzyl chloride	126	10.813	10.821	-0.008	98	53482	50.0	52.5	
127 p-Diethylbenzene	119	10.821	10.829	-0.008	95	177200	50.0	53.8	
129 n-Butylbenzene	92	10.911	10.911	0.000	98	167421	50.0	53.9	
130 1,2-Dichlorobenzene	146	11.018	11.035	-0.017	97	244224	50.0	52.1	
131 1,2,4,5-Tetramethylbenzene	119	11.874	11.874	0.000	98	350550	50.0	58.7	
132 1,2-Dibromo-3-Chloropropane	157	11.990	11.998	-0.008	96	28195	50.0	51.1	
133 1,3,5-Trichlorobenzene	180	12.022	12.031	-0.009	98	156146	50.0	54.0	
134 1,2,4-Trichlorobenzene	180	12.541	12.549	-0.008	94	142357	50.0	55.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.549	12.549	0.000	97	66981	50.0	53.9	
136 Naphthalene	128	12.755	12.763	-0.008	99	324838	50.0	59.1	
137 1,2,3-Trichlorobenzene	180	12.878	12.878	0.000	95	117721	50.0	53.2	
S 138 1,2-Dichloroethene, Total	100				0		100.0	100.2	
S 139 1,3-Dichloropropene, Total	100				0		100.0	103.5	
S 140 Xylenes, Total	100				0		100.0	103.9	
S 141 Total BTEX	1				0		250.0	257.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00117	Amount Added:	10.00	Units: uL	
8260MIX1COMB_00130	Amount Added:	50.00	Units: uL	
GASES Li_00402	Amount Added:	50.00	Units: uL	
524freon_00031	Amount Added:	50.00	Units: uL	
8260ISNEW_00140	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00214	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 08-Jan-2021 19:10:24 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21524.D

Injection Date: 07-Jan-2021 22:59:30 Instrument ID: CVOAMS5 Operator ID:

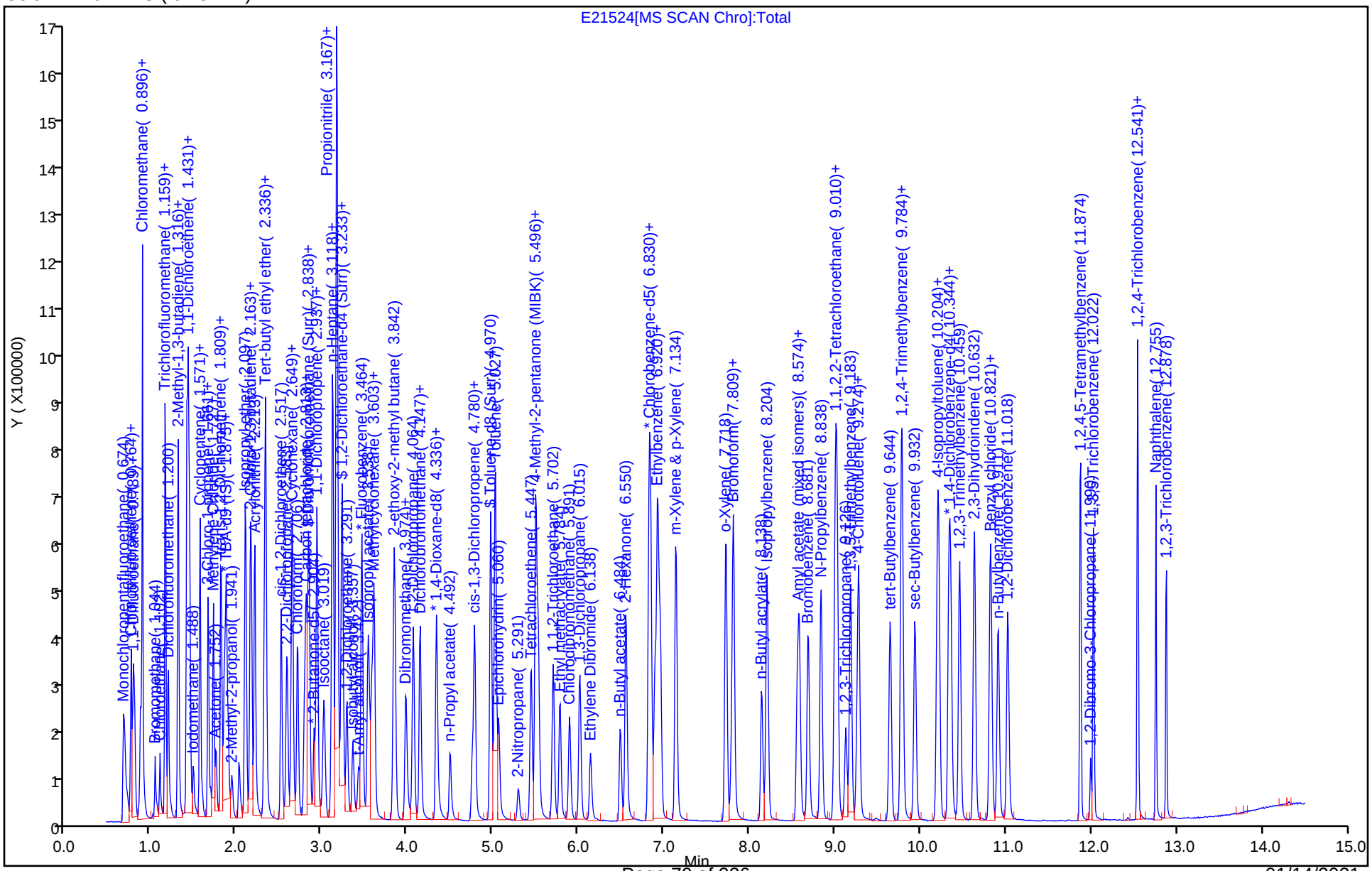
Lims ID: STD50 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260W_5 Limit Group: VOA - 8260D Water and Solid

Column: Rtx-VMS (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21525.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 07-Jan-2021 23:23:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0122590-008
Operator ID: Instrument ID: CVOAMS5
Sublist: chrom-8260W_5*sub65

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 08-Jan-2021 19:10:49 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: kluseys Date: 08-Jan-2021 15:54:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.756	0.665	0.091	84	231416	200.0	201.4	
1 Monochloropentafluoroethane	119	0.707	0.682	0.025	88	65637	NC	NC	
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	99	774699	200.0	196.9	
4 1,1-Difluoroethane	65	0.789	0.789	0.000	97	375122	NC	NC	
5 Chlorodifluoromethane	67	0.805	0.805	0.000	97	123808	200.0	199.9	a
6 Chloromethane	50	0.879	0.871	0.008	98	1129263	200.0	197.0	
7 Vinyl chloride	62	0.888	0.896	-0.008	97	790554	200.0	198.9	
8 Butadiene	54	0.896	0.896	0.000	92	694071	200.0	188.3	
9 Bromomethane	94	1.044	1.044	0.000	99	325163	200.0	259.5	
10 Chloroethane	64	1.102	1.102	0.000	99	356343	200.0	185.9	
11 Trichlorofluoromethane	101	1.167	1.167	0.000	97	723322	200.0	189.5	
12 Pentane	72	1.167	1.167	0.000	97	117239	400.0	393.9	
13 Dichlorofluoromethane	67	1.200	1.200	0.000	99	929592	200.0	195.9	
14 2-Methyl-1,3-butadiene	67	1.307	1.316	-0.009	97	738500	200.0	198.6	
15 Ethyl ether	59	1.316	1.316	0.000	96	426747	200.0	197.2	
16 Ethanol	45	1.406	1.324	0.082	99	167767	8000.0	7063.5	a
17 1,1-Dichloroethene	96	1.414	1.414	0.000	98	457861	200.0	189.4	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.414	1.414	0.000	90	697692	200.0	202.7	
19 Carbon disulfide	76	1.431	1.431	0.000	99	1670763	200.0	185.4	
20 112TCTFE	101	1.439	1.439	0.000	95	358064	200.0	192.5	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.447	1.447	0.000	94	714609	200.0	189.9	
22 Iodomethane	142	1.488	1.497	-0.009	97	644105	200.0	205.8	
23 Cyclopentene	67	1.571	1.571	0.000	96	1329663	200.0	198.7	
24 Acrolein	56	1.595	1.595	0.000	92	49106	200.0	207.2	
25 3-Chloro-1-propene	76	1.661	1.669	-0.008	95	347290	200.0	194.2	
26 Isopropyl alcohol	45	1.694	1.686	0.008	97	221230	2000.0	2114.1	
27 Methylene Chloride	84	1.727	1.727	0.000	94	608300	200.0	193.3	
28 Acetone	58	1.752	1.768	-0.016	87	244648	1000.0	1240.3	
29 trans-1,2-Dichloroethene	96	1.809	1.818	-0.009	95	578136	200.0	189.7	
30 Methyl acetate	74	1.826	1.826	0.000	99	137794	400.0	393.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.859	1.859	0.000	91	65212	200.0	184.9	
35 Acetonitrile	41	1.859	1.875	-0.016	67	550213	2000.0	1851.6	
32 Methyl tert-butyl ether	73	1.875	1.875	0.000	99	1514746	200.0	199.5	
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	100	150351	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.941	1.941	0.000	99	370155	2000.0	1901.0	
36 Isopropyl ether	45	2.097	2.097	0.000	98	2094676	200.0	204.0	
37 2-Chloro-1,3-butadiene	88	2.155	2.163	-0.008	90	522758	200.0	204.9	
38 1,1-Dichloroethane	63	2.172	2.171	0.001	100	1106317	200.0	194.5	
39 Acrylonitrile	53	2.213	2.229	-0.016	95	1564868	2000.0	2183.4	
40 Tert-butyl ethyl ether	59	2.328	2.328	0.000	89	1840413	200.0	205.2	
41 Vinyl acetate	86	2.336	2.353	-0.016	100	218354	400.0	428.4	
42 cis-1,2-Dichloroethene	96	2.517	2.525	-0.008	97	636856	200.0	191.6	
43 2,2-Dichloropropane	77	2.583	2.583	0.000	97	822991	200.0	197.5	
44 Cyclohexane	56	2.641	2.641	0.000	90	636853	200.0	192.7	
45 Chlorobromomethane	128	2.649	2.657	-0.008	95	297835	200.0	197.1	
46 Chloroform	83	2.706	2.715	-0.009	99	1012575	200.0	197.3	
47 Carbon tetrachloride	117	2.797	2.797	0.000	98	636804	200.0	196.4	
49 Ethyl acetate	70	2.805	2.822	-0.017	100	108469	400.0	393.1	
48 Methyl acrylate	55	2.813	2.830	-0.017	87	450287	200.0	216.4	
50 Tetrahydrofuran	42	2.813	2.838	-0.025	95	363961	400.0	424.3	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	97	125182	50.0	50.0	
52 1,1,1-Trichloroethane	97	2.846	2.846	0.000	99	793840	200.0	193.8	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	93	202116	250.0	250.0	
54 1,1-Dichloropropene	75	2.937	2.937	0.000	85	757883	200.0	187.5	
55 2-Butanone (MEK)	72	2.937	2.945	-0.008	98	324189	1000.0	1107.1	
56 Isooctane	57	3.019	3.019	0.000	99	972462	200.0	197.6	
57 n-Heptane	57	3.110	3.110	0.000	90	210380	200.0	196.8	
58 Benzene	78	3.126	3.126	0.000	96	2482819	200.0	193.5	
59 Propionitrile	54	3.159	3.175	-0.016	99	592971	2000.0	2037.6	
60 Methacrylonitrile	67	3.176	3.184	-0.008	91	2084457	2000.0	2178.2	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	93	122387	50.0	47.4	
62 Tert-amyl methyl ether	73	3.233	3.233	0.000	99	1634925	200.0	208.2	
63 1,2-Dichloroethane	62	3.291	3.291	0.000	96	720488	200.0	198.5	
64 Isobutyl alcohol	43	3.357	3.381	-0.024	96	446195	5000.0	5065.3	
65 t-Amyl alcohol	59	3.422	3.431	-0.009	98	326837	NC	NC	
* 66 Fluorobenzene	96	3.464	3.464	0.000	99	508965	50.0	50.0	
67 Isopropyl acetate	43	3.529	3.546	-0.017	99	969087	200.0	218.6	
68 Methylcyclohexane	83	3.579	3.579	0.000	95	485466	200.0	195.3	
69 Trichloroethene	95	3.603	3.612	-0.009	98	572646	200.0	191.8	
70 2-ethoxy-2-methyl butane	59	3.842	3.842	0.000	98	1568417	NC	NC	
71 Dibromomethane	93	3.974	3.990	-0.016	95	345186	200.0	199.8	
73 1,2-Dichloropropane	63	4.064	4.064	0.000	93	676049	200.0	203.7	
74 Dichlorobromomethane	83	4.147	4.147	0.000	99	786490	200.0	203.6	
75 Ethyl acrylate	55	4.138	4.180	-0.042	98	660212	200.0	234.3	
72 n-Butanol	56	3.982	4.254	-0.272	87	283764	5000.0	5060.5	
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	97	20838	1000.0	1000.0	
77 Methyl methacrylate	100	4.336	4.344	-0.008	90	280521	400.0	465.7	
78 1,4-Dioxane	88	4.352	4.361	-0.009	94	105648	4000.0	3825.0	
79 n-Propyl acetate	43	4.492	4.517	-0.025	99	705625	200.0	226.4	
80 2-Chloroethyl vinyl ether	63	4.756	4.797	-0.041	97	308030	200.5	202.4	
81 cis-1,3-Dichloropropene	75	4.780	4.797	-0.017	92	1059767	200.0	213.6	
$ 82 Toluene-d8 (Surr)	98	4.970	4.970	0.000	99	482215	50.0	50.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	5.027	5.035	-0.008	93	2460507	200.0	198.1	
84 Epichlorohydrin	57	5.060	5.093	-0.033	99	818696	4000.0	4584.5	
85 2-Nitropropane	41	5.291	5.299	-0.008	98	208569	400.0	422.2	
86 Tetrachloroethene	166	5.447	5.447	0.000	98	487216	200.0	196.7	
87 4-Methyl-2-pentanone (MIBK)	43	5.496	5.504	-0.008	95	2317457	1000.0	1057.3	
88 trans-1,3-Dichloropropene	75	5.529	5.546	-0.017	94	908047	200.0	208.9	
89 1,1,2-Trichloroethane	83	5.702	5.710	-0.008	96	438304	200.0	204.5	
90 Ethyl methacrylate	69	5.776	5.793	-0.017	89	721339	200.0	222.6	
91 Chlorodibromomethane	129	5.891	5.900	-0.009	98	579625	200.0	207.3	
92 1,3-Dichloropropane	76	6.015	6.023	-0.008	94	913606	200.0	202.2	
93 Ethylene Dibromide	107	6.138	6.163	-0.025	98	502603	200.0	212.6	
94 n-Butyl acetate	43	6.484	6.500	-0.016	99	768999	200.0	201.7	
95 2-Hexanone	43	6.550	6.574	-0.024	96	1719285	1000.0	1168.6	
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	85	395916	50.0	50.0	
97 Chlorobenzene	112	6.846	6.838	0.008	95	1549097	200.0	199.1	
98 Ethylbenzene	106	6.928	6.936	-0.008	98	722794	200.0	201.4	
99 1,1,1,2-Tetrachloroethane	133	6.953	6.953	0.000	96	535792	200.0	202.7	
100 m-Xylene & p-Xylene	106	7.134	7.150	-0.016	97	892753	200.0	203.9	
101 o-Xylene	106	7.727	7.727	0.001	94	904347	200.0	211.2	
102 Bromoform	173	7.792	7.792	0.000	96	383856	200.0	211.6	
103 Styrene	104	7.809	7.833	-0.024	95	1614323	200.0	221.2	
104 n-Butyl acrylate	73	8.138	8.163	-0.025	98	411310	200.0	201.9	
105 Isopropylbenzene	105	8.204	8.212	-0.008	96	1841837	200.0	205.8	
106 Amyl acetate (mixed isomers)	43	8.558	8.574	-0.016	90	951729	200.0	224.5	
$ 107 4-Bromofluorobenzene	174	8.582	8.582	0.000	93	143732	50.0	51.6	
108 Bromobenzene	156	8.681	8.698	-0.017	98	659494	200.0	196.0	
109 N-Propylbenzene	91	8.838	8.838	0.000	99	2166261	200.0	200.4	
110 1,1,2,2-Tetrachloroethane	83	8.994	9.002	-0.008	98	604542	200.0	195.5	
111 2-Chlorotoluene	91	9.010	9.019	-0.009	97	1659424	200.0	197.9	
112 4-Ethyltoluene	105	9.027	9.035	-0.008	98	1866967	200.0	206.6	
113 1,2,3-Trichloropropane	110	9.126	9.134	-0.008	99	165752	200.0	192.3	
114 1,3,5-Trimethylbenzene	105	9.183	9.183	0.000	94	1538404	200.0	208.0	
116 4-Chlorotoluene	91	9.274	9.290	-0.016	98	1577044	200.0	200.2	
115 trans-1,4-Dichloro-2-butene	75	9.257	9.298	-0.041	92	296277	200.0	215.8	
117 tert-Butylbenzene	119	9.644	9.652	-0.008	96	1215446	200.0	203.0	
119 1,2,4-Trimethylbenzene	105	9.776	9.784	-0.008	97	1649020	200.0	212.1	
118 Butyl Methacrylate	87	9.784	9.800	-0.016	91	789902	200.0	201.4	
120 sec-Butylbenzene	105	9.940	9.940	0.000	99	1683448	200.0	201.9	
121 1,3-Dichlorobenzene	146	10.195	10.212	-0.017	97	1052017	200.0	205.4	
122 4-Isopropyltoluene	119	10.212	10.212	0.000	98	1544957	200.0	213.1	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	92	177916	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.352	10.360	-0.008	95	1096886	200.0	197.5	
125 1,2,3-Trimethylbenzene	105	10.459	10.459	0.000	98	1818159	200.0	216.8	
126 2,3-Dihydroindene	117	10.632	10.632	0.000	95	1926957	200.0	212.7	
128 Benzyl chloride	126	10.813	10.821	-0.008	98	262940	200.0	230.0	
127 p-Diethylbenzene	119	10.829	10.829	0.000	94	807447	200.0	218.3	
129 n-Butylbenzene	92	10.911	10.911	0.000	98	730286	200.0	209.4	
130 1,2-Dichlorobenzene	146	11.018	11.035	-0.017	97	1051993	200.0	199.7	
131 1,2,4,5-Tetramethylbenzene	119	11.874	11.874	0.000	98	1523985	200.0	227.3	
132 1,2-Dibromo-3-Chloropropane	157	11.990	11.998	-0.008	97	130151	200.0	210.2	
133 1,3,5-Trichlorobenzene	180	12.022	12.031	-0.009	98	646660	200.0	199.0	
134 1,2,4-Trichlorobenzene	180	12.541	12.549	-0.008	94	592083	200.0	206.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.549	12.549	0.000	97	281807	200.0	202.0	
136 Naphthalene	128	12.755	12.763	-0.008	99	1328350	200.0	215.0	
137 1,2,3-Trichlorobenzene	180	12.878	12.878	0.000	95	495344	200.0	199.4	
S 138 1,2-Dichloroethene, Total	100				0		400.0	381.4	
S 139 1,3-Dichloropropene, Total	100				0		400.0	422.5	
S 140 Xylenes, Total	100				0		400.0	415.1	
S 141 Total BTEX	1				0		1000.0	1008.1	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

ACROLEIN W_00117	Amount Added:	20.00	Units: uL	
GAS Hi_00379	Amount Added:	20.00	Units: uL	
Ethanol mix_00047	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00106	Amount Added:	20.00	Units: uL	
MIX I Hi_00133	Amount Added:	20.00	Units: uL	
8FreonHi_00027	Amount Added:	20.00	Units: uL	
8260ISNEW_00140	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00214	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 08-Jan-2021 19:10:51 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21525.D

Injection Date: 07-Jan-2021 23:23:30 Instrument ID: CVOAMS5 Operator ID:

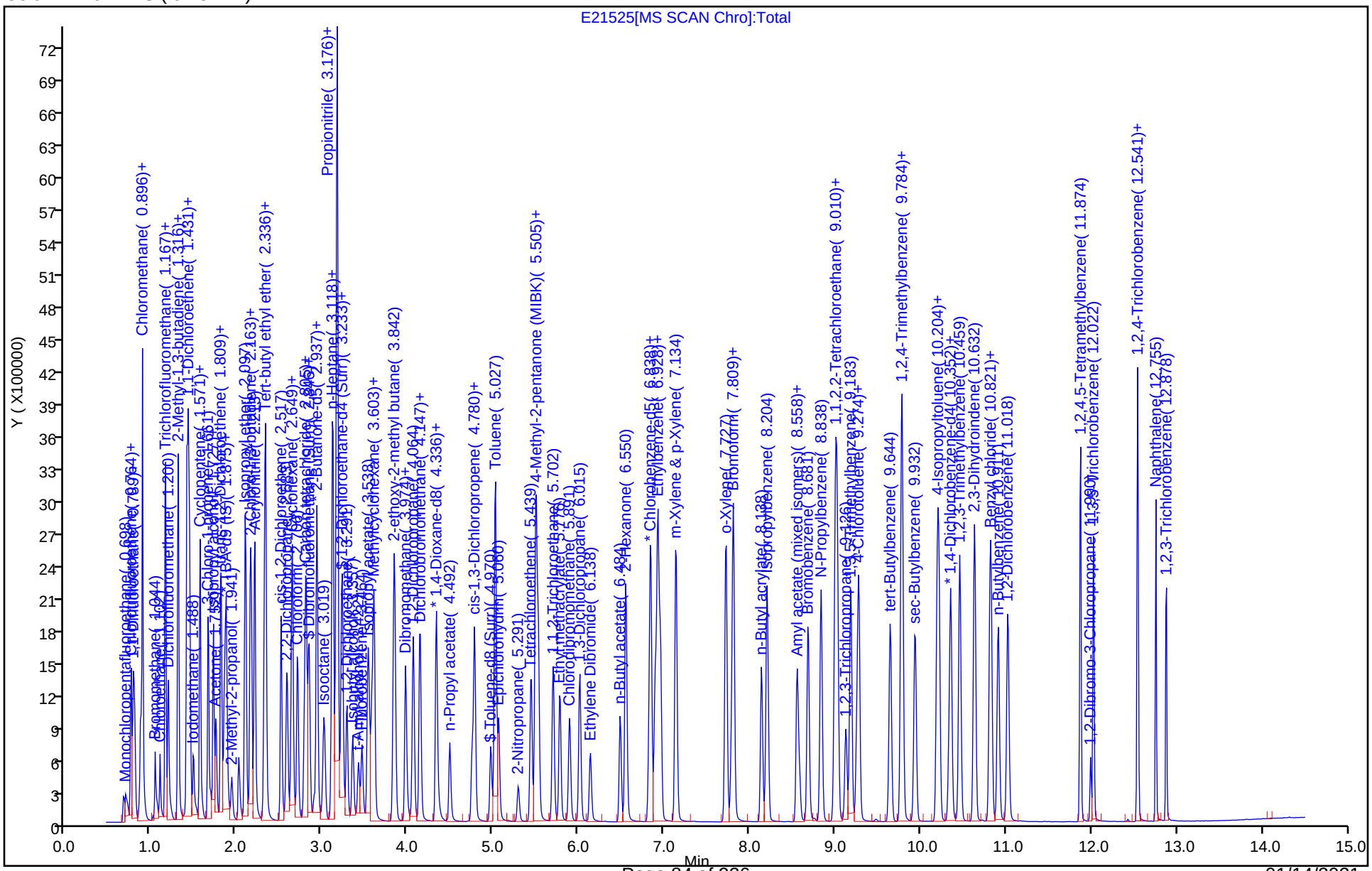
Lims ID: STD200 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260W_5 Limit Group: VOA - 8260D Water and Solid

Column: Rtx-VMS (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 07-Jan-2021 23:48:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0122590-009
Operator ID: Instrument ID: CVOAMS5
Sublist: chrom-8260W_5*sub65

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 08-Jan-2021 19:11:18 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: kluseys Date: 08-Jan-2021 15:54:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.756	0.665	0.091	86	724842	500.0	499.8	a
1 Monochloropentafluoroethane	119	0.682	0.682	0.000	57	1113	NC	NC	
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	99	2244687	500.0	534.4	
4 1,1-Difluoroethane	65	0.789	0.789	0.000	97	1016210	NC	NC	
5 Chlorodifluoromethane	67	0.805	0.805	0.000	98	344294	500.0	520.6	a
6 Chloromethane	50	0.879	0.871	0.008	99	3185381	500.0	520.5	
7 Vinyl chloride	62	0.888	0.896	-0.008	98	2224587	500.0	524.3	
8 Butadiene	54	0.896	0.896	0.000	95	2042812	500.0	519.2	
9 Bromomethane	94	1.044	1.044	0.000	99	964547	500.0	721.0	
10 Chloroethane	64	1.101	1.102	-0.001	99	663105	500.0	323.4	
11 Trichlorofluoromethane	101	1.167	1.167	0.000	98	2010934	500.0	493.4	
12 Pentane	72	1.159	1.167	-0.008	96	310198	1000.0	974.4	
13 Dichlorofluoromethane	67	1.200	1.200	0.000	99	2519319	500.0	497.4	
14 2-Methyl-1,3-butadiene	67	1.307	1.316	-0.009	97	2127945	500.0	536.0	
15 Ethyl ether	59	1.315	1.316	-0.001	95	1138192	500.0	492.6	
16 Ethanol	45	1.406	1.324	0.082	99	463921	20000	17700	a
17 1,1-Dichloroethene	96	1.414	1.414	0.000	98	1266836	500.0	491.0	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.422	1.414	0.008	88	1961889	500.0	533.8	
19 Carbon disulfide	76	1.431	1.431	0.000	99	4620048	500.0	480.3	
20 112TCTFE	101	1.439	1.439	0.000	96	1041513	500.0	524.5	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.447	1.447	0.000	91	2021172	500.0	503.2	
22 Iodomethane	142	1.497	1.497	-0.001	96	1705389	500.0	499.2	
23 Cyclopentene	67	1.571	1.571	0.000	96	3768588	500.0	527.5	
24 Acrolein	56	1.595	1.595	0.000	92	105269	400.0	402.6	
25 3-Chloro-1-propene	76	1.669	1.669	0.000	94	886974	500.0	464.6	
26 Isopropyl alcohol	45	1.702	1.686	0.016	97	632524	5000.0	5477.3	
27 Methylene Chloride	84	1.727	1.727	0.000	94	1651705	500.0	491.7	
28 Acetone	58	1.760	1.768	-0.008	87	507338	2500.0	2404.7	
29 trans-1,2-Dichloroethene	96	1.809	1.818	-0.009	95	1584974	500.0	487.3	
30 Methyl acetate	74	1.826	1.826	0.000	99	361102	1000.0	933.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.850	1.859	-0.009	94	197088	500.0	508.6	
35 Acetonitrile	41	1.859	1.875	-0.016	79	1607012	5000.0	4900.5	
32 Methyl tert-butyl ether	73	1.875	1.875	0.000	99	4027155	500.0	496.8	
* 33 TBA-d9 (IS)	65	1.908	1.900	0.008	99	165918	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.949	1.941	0.008	99	1043088	5000.0	4854.3	
36 Isopropyl ether	45	2.097	2.097	0.000	98	5583252	500.0	509.3	
37 2-Chloro-1,3-butadiene	88	2.155	2.163	-0.008	90	1421808	500.0	522.1	
38 1,1-Dichloroethane	63	2.171	2.171	0.000	100	3019633	500.0	497.3	
39 Acrylonitrile	53	2.212	2.229	-0.017	95	4286875	5000.0	5602.5	
40 Tert-butyl ethyl ether	59	2.328	2.328	0.000	89	4861076	500.0	507.7	
41 Vinyl acetate	86	2.344	2.353	-0.008	100	616653	1000.0	1131.2	
42 cis-1,2-Dichloroethene	96	2.517	2.525	-0.008	97	1724724	500.0	486.0	
43 2,2-Dichloropropane	77	2.591	2.583	0.008	97	2261040	500.0	508.3	
44 Cyclohexane	56	2.640	2.641	-0.001	90	1845838	500.0	523.0	
45 Chlorobromomethane	128	2.657	2.657	0.000	95	773374	500.0	479.3	
46 Chloroform	83	2.715	2.715	-0.001	99	2730719	500.0	498.4	
47 Carbon tetrachloride	117	2.797	2.797	0.000	98	1779878	500.0	514.1	
49 Ethyl acetate	70	2.813	2.822	-0.009	100	294636	1000.0	998.2	
48 Methyl acrylate	55	2.813	2.830	-0.017	57	1199523	500.0	540.1	
50 Tetrahydrofuran	42	2.813	2.838	-0.025	95	975453	1000.0	1063.2	
$ 51 Dibromofluoromethane (Surr)	113	2.846	2.838	0.008	96	130187	50.0	48.7	
52 1,1,1-Trichloroethane	97	2.846	2.846	0.000	99	2190697	500.0	500.8	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	97	216182	250.0	250.0	
54 1,1-Dichloropropene	75	2.937	2.937	0.000	90	2137437	500.0	495.2	
55 2-Butanone (MEK)	72	2.937	2.945	-0.008	98	788365	2500.0	2517.2	
56 Isooctane	57	3.019	3.019	0.000	100	2936433	500.0	558.8	
57 n-Heptane	57	3.110	3.110	0.000	91	646245	500.0	566.3	
58 Benzene	78	3.126	3.126	0.000	96	6698671	500.0	479.6	
59 Propionitrile	54	3.175	3.175	0.000	94	1576624	5000.0	4909.4	
60 Methacrylonitrile	67	3.184	3.184	0.000	91	5312780	5000.0	5200.1	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.241	3.233	0.008	93	125201	50.0	45.4	
62 Tert-amyl methyl ether	73	3.233	3.233	0.000	99	4299273	500.0	512.9	
63 1,2-Dichloroethane	62	3.291	3.291	0.000	96	1911959	500.0	493.5	
64 Isobutyl alcohol	43	3.365	3.381	-0.016	95	1274486	12500	13111	
65 t-Amyl alcohol	59	3.430	3.431	-0.001	97	904054	NC	NC	
* 66 Fluorobenzene	96	3.463	3.464	-0.001	99	543374	50.0	50.0	
67 Isopropyl acetate	43	3.537	3.546	-0.009	99	2583910	500.0	545.9	
68 Methylcyclohexane	83	3.587	3.579	0.008	96	1450984	500.0	546.7	
69 Trichloroethene	95	3.603	3.612	-0.009	98	1543328	500.0	484.2	
70 2-ethoxy-2-methyl butane	59	3.842	3.842	0.000	98	4205640	NC	NC	
71 Dibromomethane	93	3.974	3.990	-0.016	96	925639	500.0	501.8	
73 1,2-Dichloropropane	63	4.064	4.064	0.000	92	1807935	500.0	510.2	
74 Dichlorobromomethane	83	4.146	4.147	-0.001	99	2117884	500.0	513.7	
75 Ethyl acrylate	55	4.138	4.180	-0.042	98	1787740	500.0	594.2	
72 n-Butanol	56	3.990	4.254	-0.264	87	829829	12500	12493	
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	91	21425	1000.0	1000.0	
77 Methyl methacrylate	100	4.336	4.344	-0.008	91	732733	1000.0	1139.4	
78 1,4-Dioxane	88	4.352	4.361	-0.009	95	284822	10000	10030	
79 n-Propyl acetate	43	4.492	4.517	-0.025	99	1888357	500.0	567.6	
80 2-Chloroethyl vinyl ether	63	4.755	4.797	-0.042	97	839277	501.2	500.9	
81 cis-1,3-Dichloropropene	75	4.788	4.797	-0.009	92	2858452	500.0	529.3	
$ 82 Toluene-d8 (Surr)	98	4.978	4.970	0.008	99	512509	50.0	48.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	5.027	5.035	-0.008	93	6640202	500.0	491.1	
84 Epichlorohydrin	57	5.068	5.093	-0.025	100	2129961	10000	11151	
85 2-Nitropropane	41	5.299	5.299	0.000	97	573336	1000.0	1051.7	
86 Tetrachloroethene	166	5.447	5.447	0.000	98	1333139	500.0	494.5	
87 4-Methyl-2-pentanone (MIBK)	43	5.504	5.504	0.000	96	6103742	2500.0	2603.6	
88 trans-1,3-Dichloropropene	75	5.537	5.546	-0.009	98	2439010	500.0	515.5	
89 1,1,2-Trichloroethane	83	5.702	5.710	-0.008	97	1152079	500.0	493.8	
90 Ethyl methacrylate	69	5.784	5.793	-0.009	90	1948314	500.0	552.2	
91 Chlorodibromomethane	129	5.899	5.900	-0.001	99	1575069	500.0	517.4	
92 1,3-Dichloropropane	76	6.015	6.023	-0.008	94	2454222	500.0	499.0	
93 Ethylene Dibromide	107	6.138	6.163	-0.025	98	1358976	500.0	528.1	
94 n-Butyl acetate	43	6.492	6.500	-0.008	99	2201613	500.0	499.8	
95 2-Hexanone	43	6.558	6.574	-0.016	96	4291206	2500.0	2726.9	
* 96 Chlorobenzene-d5	117	6.829	6.821	0.008	87	430988	50.0	50.0	
97 Chlorobenzene	112	6.846	6.838	0.008	96	4258535	500.0	502.8	
98 Ethylbenzene	106	6.936	6.936	0.000	98	2004631	500.0	513.1	
99 1,1,1,2-Tetrachloroethane	133	6.961	6.953	0.008	96	1467592	500.0	510.0	
100 m-Xylene & p-Xylene	106	7.142	7.150	-0.008	96	2489208	500.0	522.3	
101 o-Xylene	106	7.726	7.727	0.000	94	2524079	500.0	541.4	
102 Bromoform	173	7.792	7.792	0.000	98	1096683	500.0	547.5	
103 Styrene	104	7.817	7.833	-0.016	95	4557984	500.0	573.8	
104 n-Butyl acrylate	73	8.146	8.163	-0.017	98	1187375	500.0	499.8	
105 Isopropylbenzene	105	8.212	8.212	0.000	96	5315901	500.0	545.6	
106 Amyl acetate (mixed isomers)	43	8.558	8.574	-0.016	90	2744370	500.0	586.0	
$ 107 4-Bromofluorobenzene	174	8.591	8.582	0.008	94	157920	50.0	52.0	
108 Bromobenzene	156	8.689	8.698	-0.009	97	1817582	500.0	489.2	
109 N-Propylbenzene	91	8.846	8.838	0.008	99	6206618	500.0	520.0	
110 1,1,2,2-Tetrachloroethane	83	9.002	9.002	0.000	98	1746581	500.0	511.3	
111 2-Chlorotoluene	91	9.018	9.019	-0.001	97	4685071	500.0	505.8	
112 4-Ethyltoluene	105	9.035	9.035	0.000	98	5276023	500.0	528.7	
113 1,2,3-Trichloropropane	110	9.134	9.134	0.000	99	471898	500.0	495.7	
114 1,3,5-Trimethylbenzene	105	9.191	9.183	0.008	94	4398117	500.0	538.4	
116 4-Chlorotoluene	91	9.282	9.290	-0.008	98	4556772	500.0	523.6	
115 trans-1,4-Dichloro-2-butene	75	9.257	9.298	-0.041	93	884317	500.0	583.1	
117 tert-Butylbenzene	119	9.652	9.652	0.000	95	3564832	500.0	539.0	
119 1,2,4-Trimethylbenzene	105	9.784	9.784	0.000	97	4634559	500.0	539.7	
118 Butyl Methacrylate	87	9.792	9.800	-0.008	92	2277567	500.0	499.8	
120 sec-Butylbenzene	105	9.940	9.940	0.000	99	4997871	500.0	542.6	
121 1,3-Dichlorobenzene	146	10.204	10.212	-0.008	97	2919497	500.0	516.2	
122 4-Isopropyltoluene	119	10.220	10.212	0.008	98	4491670	500.0	560.8	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	95	196496	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.360	10.360	0.000	96	3029956	500.0	493.9	
125 1,2,3-Trimethylbenzene	105	10.467	10.459	0.008	98	4995699	500.0	539.3	
126 2,3-Dihydroindene	117	10.640	10.632	0.008	95	5316257	500.0	531.3	
128 Benzyl chloride	126	10.813	10.821	-0.008	98	727357	500.0	576.1	
127 p-Diethylbenzene	119	10.829	10.829	0.000	94	2250719	500.0	550.9	
129 n-Butylbenzene	92	10.911	10.911	0.000	98	2074327	500.0	538.7	
130 1,2-Dichlorobenzene	146	11.027	11.035	-0.009	97	2893150	500.0	497.3	
131 1,2,4,5-Tetramethylbenzene	119	11.874	11.874	0.000	98	3927304	500.0	530.5	
132 1,2-Dibromo-3-Chloropropane	157	11.989	11.998	-0.009	97	360599	500.0	527.4	
133 1,3,5-Trichlorobenzene	180	12.031	12.031	0.000	98	1749192	500.0	487.3	
134 1,2,4-Trichlorobenzene	180	12.541	12.549	-0.008	94	1588728	500.0	501.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.549	12.549	0.000	98	780788	500.0	506.7	
136 Naphthalene	128	12.755	12.763	-0.008	99	3384328	500.0	496.1	
137 1,2,3-Trichlorobenzene	180	12.878	12.878	0.000	96	1304576	500.0	475.5	
S 138 1,2-Dichloroethene, Total	100				0		1000.0	973.3	
S 139 1,3-Dichloropropene, Total	100				0		1000.0	1044.7	
S 140 Xylenes, Total	100				0		1000.0	1063.7	
S 141 Total BTEX	1				0		2500.0	2547.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00117	Amount Added:	40.00	Units: uL	
GAS Hi_00379	Amount Added:	50.00	Units: uL	
Ethanol mix_00047	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00106	Amount Added:	50.00	Units: uL	
MIX I Hi_00133	Amount Added:	50.00	Units: uL	
8FreonHi_00027	Amount Added:	50.00	Units: uL	
8260ISNEW_00140	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00214	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 08-Jan-2021 19:11:20 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Injection Date: 07-Jan-2021 23:48:30 Instrument ID: CVOAMS5 Operator ID:

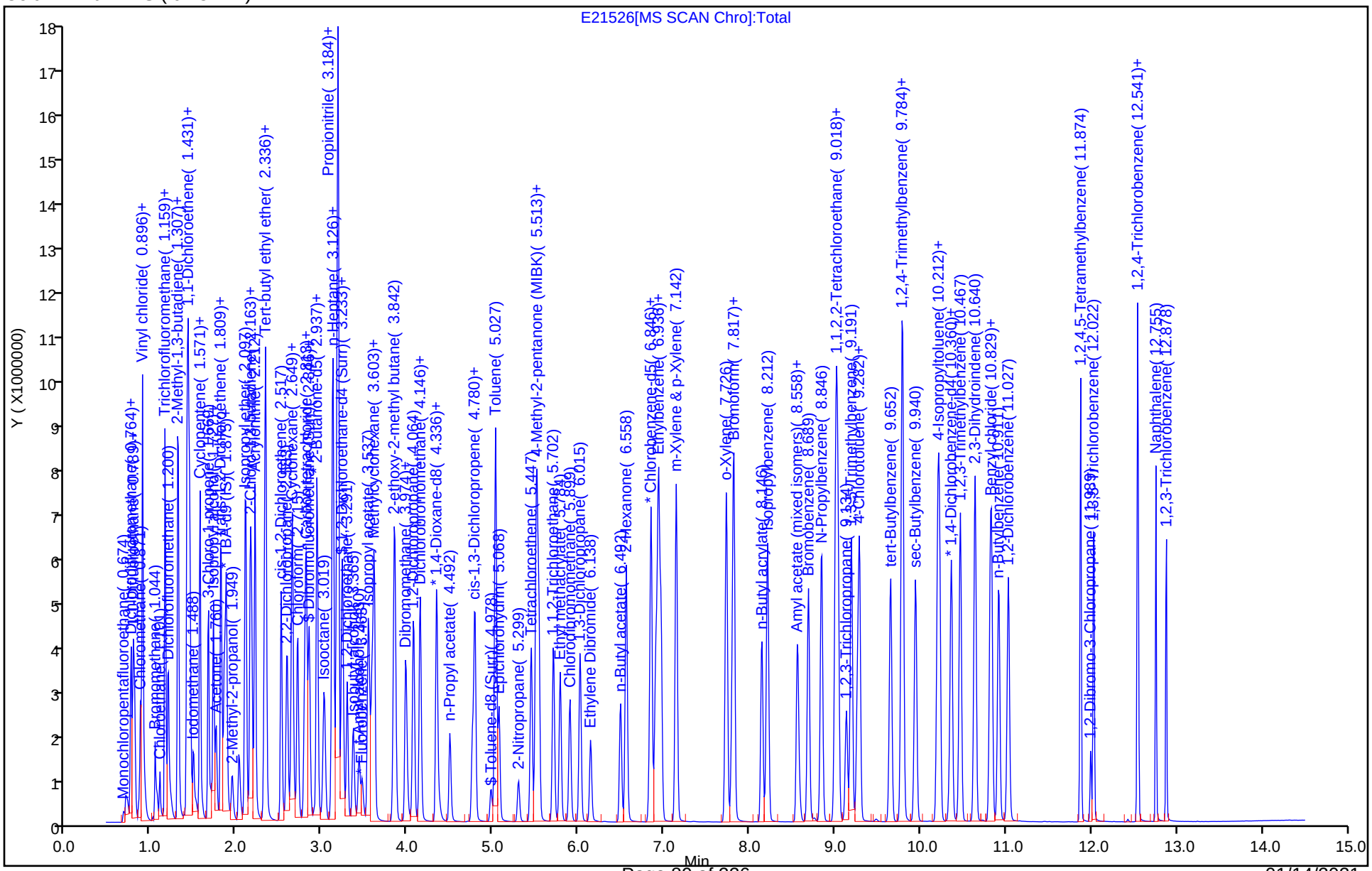
Lims ID: STD500 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8260W_5 Limit Group: VOA - 8260D Water and Solid

Column: Rtx-VMS (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab Sample ID: ICV 460-751537/15 Calibration Date: 01/08/2021 02:15

Instrument ID: CVOAMS5 Calib Start Date: 01/07/2021 21:20

GC Column: Rtx-VMS ID: 0.18(mm) Calib End Date: 01/07/2021 23:48

Lab File ID: E21532.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	QuaF		1.077		17.1	20.0	-14.7	30.0
Dichlorodifluoromethane	Ave	0.3865	0.4359	0.1000	22.6	20.0	12.8	30.0
Chlorodifluoromethane	Ave	0.0609	0.0622		20.4	20.0	2.2	30.0
Chloromethane	Ave	0.5631	0.6461	0.1000	22.9	20.0	14.7	30.0
Vinyl chloride	Ave	0.3904	0.4851	0.1000	24.8	20.0	24.2	30.0
Butadiene	Ave	0.3620	0.4143		22.9	20.0	14.4	30.0
Bromomethane	Ave	0.1231	0.1664	0.1000	27.0	20.0	35.2*	30.0
Chloroethane	Ave	2.371	2.849	0.1000	24.0	20.0	20.2	30.0
Pentane	Ave	0.3682	0.4035		43.8	40.0	9.6	30.0
Trichlorofluoromethane	Ave	0.3750	0.4668	0.1000	24.9	20.0	24.5	30.0
Dichlorofluoromethane	Ave	0.4661	0.6074		26.1	20.0	30.3*	30.0
2-Methyl-1,3-butadiene	Ave	0.3653	0.3979		21.8	20.0	8.9	30.0
Ethyl ether	Ave	0.2126	0.2454		23.1	20.0	15.4	30.0
Ethanol	Ave	0.1580	0.1737		879	800	9.9	30.0
1,1-Dichloroethene	Ave	0.2374	0.2648	0.1000	22.3	20.0	11.5	30.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3382	0.4075		24.1	20.0	20.5	30.0
Carbon disulfide	Ave	0.8851	0.9352	0.1000	21.1	20.0	5.7	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1827	0.2026	0.1000	22.2	20.0	10.9	30.0
1,1,1-Trifluoro-2,2-dichloro ethane	Ave	0.3696	0.3975		21.5	20.0	7.6	30.0
Iodomethane	QuaF		0.2901		19.1	20.0	-4.3	30.0
Cyclopentene	Ave	0.6574	0.7200		21.9	20.0	9.5	30.0
Acrolein	Ave	1.576	1.069		27.2	40.1	-32.2*	30.0
3-Chloro-1-propene	Ave	0.1757	0.1769		20.1	20.0	0.7	30.0
Isopropyl alcohol	Ave	0.6960	0.6970		200	200	0.1	30.0
Methylene Chloride	Ave	0.3091	0.3124	0.1000	20.2	20.0	1.1	30.0
Acetone	Ave	0.2440	0.2076	0.0500	85.1	100	-14.9	30.0
trans-1,2-Dichloroethene	Ave	0.2993	0.2995	0.1000	20.0	20.0	0.0	30.0
Methyl acetate	Ave	2.332	2.144	0.1000	36.8	40.0	-8.1	30.0
Hexane	Qua2		2.468		20.3	20.0	1.5	30.0
Acetonitrile	Ave	1.976	2.176		220	200	10.1	30.0
Methyl tert-butyl ether	Ave	0.7459	0.7615	0.1000	20.4	20.0	2.1	30.0
2-Methyl-2-propanol	Ave	1.295	1.218		188	200	-5.9	30.0
Isopropyl ether	Ave	1.009	1.078		21.4	20.0	6.8	30.0
2-Chloro-1,3-butadiene	Ave	0.2506	0.2404		19.2	20.0	-4.1	30.0
1,1-Dichloroethane	Ave	0.5587	0.5656	0.2000	20.2	20.0	1.2	30.0
Acrylonitrile	Ave	0.0704	0.0782		222	200	11.1	30.0
Tert-butyl ethyl ether	Ave	0.8811	0.9266		21.0	20.0	5.2	30.0
Vinyl acetate	Ave	0.6304	0.5138		32.6	40.0	-18.5	30.0
cis-1,2-Dichloroethene	Ave	0.3265	0.3282	0.1000	20.1	20.0	0.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab Sample ID: ICV 460-751537/15 Calibration Date: 01/08/2021 02:15

Instrument ID: CVOAMS5 Calib Start Date: 01/07/2021 21:20

GC Column: Rtx-VMS ID: 0.18(mm) Calib End Date: 01/07/2021 23:48

Lab File ID: E21532.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2-Dichloropropane	Ave	0.4094	0.3947		19.3	20.0	-3.6	30.0
Cyclohexane	Ave	0.3247	0.3506	0.1000	21.6	20.0	8.0	30.0
Chlorobromomethane	Ave	0.1485	0.1435		19.3	20.0	-3.3	30.0
Chloroform	Ave	0.5041	0.4994	0.2000	19.8	20.0	-0.9	30.0
Carbon tetrachloride	Ave	0.3186	0.2953	0.1000	18.5	20.0	-7.3	30.0
Ethyl acetate	Ave	0.3413	0.2904		34.0	40.0	-14.9	30.0
Methyl acrylate	Ave	0.2044	0.2036		19.9	20.0	-0.4	30.0
Tetrahydrofuran	Ave	1.061	1.046		39.4	40.0	-1.4	30.0
1,1,1-Trichloroethane	Ave	0.4025	0.4013	0.1000	19.9	20.0	-0.3	30.0
1,1-Dichloropropene	Ave	0.3972	0.3813		19.2	20.0	-4.0	30.0
2-Butanone (MEK)	Ave	0.3622	0.3230	0.0500	89.2	100	-10.8	30.0
Isooctane	Ave	0.4836	0.6196		25.6	20.0	28.1	30.0
n-Heptane	Ave	0.1050	0.1251		23.8	20.0	19.1	30.0
Benzene	Ave	1.620	1.660	0.5000	20.5	20.0	2.5	30.0
Propionitrile	Ave	1.936	1.791		185	200	-7.5	30.0
Methacrylonitrile	Ave	0.0940	0.0985		210	200	4.8	30.0
Tert-amyl methyl ether	Ave	0.7713	0.7773		20.2	20.0	0.8	30.0
1,2-Dichloroethane	Ave	0.3565	0.3697	0.1000	20.7	20.0	3.7	30.0
Isobutyl alcohol	Ave	0.5859	0.4833		412	500	-17.5	30.0
Isopropyl acetate	Ave	0.4355	0.4509		20.7	20.0	3.5	30.0
Methylcyclohexane	Ave	0.2442	0.2534	0.1000	20.8	20.0	3.8	30.0
Trichloroethene (TCE)	Ave	0.2933	0.2762	0.2000	18.8	20.0	-5.8	30.0
Dibromomethane	Ave	0.1697	0.1617		19.1	20.0	-4.7	30.0
n-Butanol	QuaF		0.2562		360	500	-28.0	30.0
1,2-Dichloropropane	Ave	0.3261	0.3392	0.1000	20.8	20.0	4.0	30.0
Dichlorobromomethane	Ave	0.3794	0.3859	0.2000	20.3	20.0	1.7	30.0
Ethyl acrylate	Ave	0.2768	0.2838		20.5	20.0	2.5	30.0
Methyl methacrylate	Ave	0.0592	0.0587		39.7	40.0	-0.9	30.0
1,4-Dioxane	Ave	1.325	1.286		388	400	-2.9	30.0
n-Propyl acetate	Ave	0.3062	0.3081		20.1	20.0	0.6	30.0
2-Chloroethyl vinyl ether	QuaF		0.1263		17.2	20.0	-13.9	30.0
cis-1,3-Dichloropropene	Ave	0.6265	0.6356	0.2000	20.3	20.0	1.4	30.0
Toluene	Ave	1.569	1.542	0.4000	19.7	20.0	-1.7	30.0
Epichlorohydrin	Ave	0.2209	0.2262		20.5	20.0	2.4	30.0
2-Nitropropane	Ave	3.286	3.255		39.6	40.0	-0.9	30.0
Tetrachloroethene	Ave	0.3128	0.2894	0.2000	18.5	20.0	-7.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	2.711	2.530	0.0500	93.3	100	-6.7	30.0
trans-1,3-Dichloropropene	Ave	0.5489	0.5187	0.1000	18.9	20.0	-5.5	30.0
1,1,2-Trichloroethane	Ave	0.2707	0.2743	0.1000	20.3	20.0	1.3	30.0
Ethyl methacrylate	Ave	0.4093	0.4073		19.9	20.0	-0.5	30.0
Chlorodibromomethane	Ave	0.3532	0.3442	0.1000	19.5	20.0	-2.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab Sample ID: ICV 460-751537/15 Calibration Date: 01/08/2021 02:15

Instrument ID: CVOAMS5 Calib Start Date: 01/07/2021 21:20

GC Column: Rtx-VMS ID: 0.18(mm) Calib End Date: 01/07/2021 23:48

Lab File ID: E21532.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropane	Ave	0.5706	0.5553		19.5	20.0	-2.7	30.0
Ethylene Dibromide	Ave	0.2986	0.3069	0.1000	20.6	20.0	2.8	30.0
n-Butyl acetate	QuaF		0.3980		17.2	20.0	-14.0	30.0
2-Hexanone	Ave	1.820	1.741	0.0500	95.6	100	-4.4	30.0
Chlorobenzene	Ave	0.9825	0.9519	0.5000	19.4	20.0	-3.1	30.0
Ethylbenzene	Ave	0.4533	0.4401	0.1000	19.4	20.0	-2.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3339	0.3125		18.7	20.0	-6.4	30.0
m-Xylene & p-Xylene	Ave	0.5529	0.5152	0.1000	18.6	20.0	-6.8	30.0
o-Xylene	Ave	0.5408	0.5422	0.3000	20.1	20.0	0.3	30.0
Bromoform	Ave	0.5097	0.4883	0.1000	19.2	20.0	-4.2	30.0
Styrene	Ave	0.9215	0.9318	0.3000	20.2	20.0	1.1	30.0
n-Butyl acrylate	QuaF		0.1987		16.2	20.0	-19.2	30.0
Isopropylbenzene	Ave	1.130	1.139	0.1000	20.1	20.0	0.7	30.0
Amyl acetate (mixed isomers)	Ave	1.192	1.267		21.3	20.0	6.3	30.0
Bromobenzene	Ave	0.9454	0.9301		19.7	20.0	-1.6	30.0
N-Propylbenzene	Ave	3.037	3.171		20.9	20.0	4.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8692	0.9032	0.3000	20.8	20.0	3.9	30.0
2-Chlorotoluene	Ave	2.357	2.495		21.2	20.0	5.9	30.0
4-Ethyltoluene	Ave	2.539	2.647		20.8	20.0	4.2	30.0
1,2,3-Trichloropropane	Ave	0.2422	0.2518		20.8	20.0	4.0	30.0
1,3,5-Trimethylbenzene	Ave	2.079	2.204		21.2	20.0	6.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3859	0.3595		18.6	20.0	-6.8	30.0
4-Chlorotoluene	Ave	2.214	2.375		21.4	20.0	7.2	30.0
tert-Butylbenzene	Ave	1.683	1.741		20.7	20.0	3.4	30.0
1,2,4-Trimethylbenzene	Ave	2.185	2.336		21.4	20.0	6.9	30.0
Butyl Methacrylate	QuaF		0.9352		17.5	20.0	-12.4	30.0
sec-Butylbenzene	Ave	2.344	2.524		21.5	20.0	7.7	30.0
1,3-Dichlorobenzene	Ave	1.439	1.461	0.6000	20.3	20.0	1.5	30.0
4-Isopropyltoluene	Ave	2.038	2.197		21.6	20.0	7.8	30.0
1,4-Dichlorobenzene	Ave	1.561	1.611	0.5000	20.6	20.0	3.2	30.0
1,2,3-Trimethylbenzene	Ave	2.357	2.539		21.5	20.0	7.7	30.0
Indan	Ave	2.546	2.699		21.2	20.0	6.0	30.0
Benzyl chloride	Ave	0.3213	0.2983		18.6	20.0	-7.2	30.0
p-Diethylbenzene	Ave	1.040	1.153		22.2	20.0	10.9	30.0
n-Butylbenzene	Ave	0.9799	1.051		21.4	20.0	7.2	30.0
1,2-Dichlorobenzene	Ave	1.480	1.475	0.4000	19.9	20.0	-0.4	30.0
1,2,4,5-Tetramethylbenzene	Ave	1.884	2.082		22.1	20.0	10.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1740	0.1736	0.0500	20.0	20.0	-0.2	30.0
1,3,5-Trichlorobenzene	Ave	0.9133	0.9333		20.4	20.0	2.2	30.0
1,2,4-Trichlorobenzene	Ave	0.8061	0.9066	0.2000	22.5	20.0	12.5	30.0
Hexachlorobutadiene	Ave	0.3921	0.4624		23.6	20.0	17.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab Sample ID: ICV 460-751537/15 Calibration Date: 01/08/2021 02:15

Instrument ID: CVOAMS5 Calib Start Date: 01/07/2021 21:20

GC Column: Rtx-VMS ID: 0.18(mm) Calib End Date: 01/07/2021 23:48

Lab File ID: E21532.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.736	2.066		23.8	20.0	19.0	30.0
1,2,3-Trichlorobenzene	Ave	0.6981	0.7993		22.9	20.0	14.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2459	0.2514		51.1	50.0	2.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2536	0.2684		52.9	50.0	5.8	30.0
Toluene-d8 (Surr)	Ave	1.216	1.242		51.1	50.0	2.2	30.0
4-Bromofluorobenzene	Ave	0.3520	0.3370		47.9	50.0	-4.3	30.0

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21532.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Jan-2021 02:15:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 460-0122590-015
Operator ID: Instrument ID: CVOAMS5
Sublist:

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 08-Jan-2021 19:13:20 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: kluseys Date: 08-Jan-2021 19:05:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Chlorotrifluoroethene	116	0.756	0.665	0.091	84	20319	20.0	17.1	
1 Monochloropentafluoroethane	119	0.707	0.682	0.025	68	4566	NC	NC	
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	99	96836	20.0	22.6	
4 1,1-Difluoroethane	65	0.789	0.789	0.000	98	38563	NC	NC	
5 Chlorodifluoromethane	67	0.805	0.805	0.000	97	13817	20.0	20.4	a
6 Chloromethane	50	0.880	0.871	0.009	99	143540	20.0	22.9	
7 Vinyl chloride	62	0.888	0.896	-0.008	98	107767	20.0	24.8	
8 Butadiene	54	0.896	0.896	0.000	97	92050	20.0	22.9	
9 Bromomethane	94	1.044	1.044	0.000	99	36972	20.0	27.0	
10 Chloroethane	64	1.102	1.102	0.000	99	53743	20.0	24.0	M
11 Trichlorofluoromethane	101	1.168	1.167	0.001	81	103707	20.0	24.9	
12 Pentane	72	1.168	1.167	0.001	96	15225	40.0	43.8	
13 Dichlorofluoromethane	67	1.200	1.200	0.000	99	134938	20.0	26.1	
14 2-Methyl-1,3-butadiene	67	1.316	1.316	0.000	97	88401	20.0	21.8	
15 Ethyl ether	59	1.316	1.316	0.000	95	54511	20.0	23.1	
16 Ethanol	45	1.398	1.324	0.074	40	23020	800.0	879.4	a
17 1,1-Dichloroethene	96	1.414	1.414	0.000	98	58838	20.0	22.3	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	1.414	1.414	0.000	72	90541	20.0	24.1	
19 Carbon disulfide	76	1.431	1.431	0.000	99	207763	20.0	21.1	
20 112TCTFE	101	1.439	1.439	0.000	92	45004	20.0	22.2	
21 1,1,1-Trifluoro-2,2-dichloroetha	83	1.447	1.447	0.000	95	88313	20.0	21.5	
22 Iodomethane	142	1.497	1.497	0.000	97	64454	20.0	19.1	
23 Cyclopentene	67	1.571	1.571	0.000	97	159962	20.0	21.9	
24 Acrolein	56	1.595	1.595	0.000	91	7093	40.1	27.2	
25 3-Chloro-1-propene	76	1.670	1.669	0.001	92	39312	20.0	20.1	
26 Isopropyl alcohol	45	1.694	1.686	0.008	56	23098	200.0	200.3	
27 Methylene Chloride	84	1.727	1.727	0.000	96	69414	20.0	20.2	
28 Acetone	58	1.760	1.768	-0.008	86	19585	100.0	85.1	
29 trans-1,2-Dichloroethene	96	1.818	1.818	0.000	96	66542	20.0	20.0	
30 Methyl acetate	74	1.826	1.826	0.000	100	14213	40.0	36.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Hexane	86	1.851	1.859	-0.008	86	8178	20.0	20.3	
35 Acetonitrile	41	1.875	1.875	0.000	76	72115	200.0	220.2	
32 Methyl tert-butyl ether	73	1.875	1.875	0.000	97	169182	20.0	20.4	
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	99	165705	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.941	1.941	0.000	100	40381	200.0	188.2	
36 Isopropyl ether	45	2.098	2.097	0.001	98	239413	20.0	21.4	
37 2-Chloro-1,3-butadiene	88	2.155	2.163	-0.008	91	53400	20.0	19.2	
38 1,1-Dichloroethane	63	2.172	2.171	0.001	100	125667	20.0	20.2	
39 Acrylonitrile	53	2.213	2.229	-0.016	95	173728	200.0	222.1	
40 Tert-butyl ethyl ether	59	2.328	2.328	0.000	88	205853	20.0	21.0	
41 Vinyl acetate	86	2.344	2.353	-0.008	100	19384	40.0	32.6	
42 cis-1,2-Dichloroethene	96	2.517	2.525	-0.008	94	72907	20.0	20.1	
43 2,2-Dichloropropane	77	2.591	2.583	0.008	98	87678	20.0	19.3	
44 Cyclohexane	56	2.641	2.641	0.000	92	77883	20.0	21.6	
45 Chlorobromomethane	128	2.657	2.657	0.000	95	31889	20.0	19.3	
46 Chloroform	83	2.715	2.715	0.000	99	110947	20.0	19.8	
47 Carbon tetrachloride	117	2.797	2.797	0.000	97	65607	20.0	18.5	
49 Ethyl acetate	70	2.813	2.822	-0.009	98	10956	40.0	34.0	
48 Methyl acrylate	55	2.813	2.830	-0.017	78	45228	20.0	19.9	
50 Tetrahydrofuran	42	2.822	2.838	-0.016	95	39454	40.0	39.4	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	97	139607	50.0	51.1	
52 1,1,1-Trichloroethane	97	2.846	2.846	0.000	97	89165	20.0	19.9	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	98	235803	250.0	250.0	
54 1,1-Dichloropropene	75	2.937	2.937	0.000	90	84706	20.0	19.2	
55 2-Butanone (MEK)	72	2.937	2.945	-0.008	98	30470	100.0	89.2	
56 Isooctane	57	3.019	3.019	0.000	99	137657	20.0	25.6	
57 n-Heptane	57	3.110	3.110	0.000	93	27793	20.0	23.8	
58 Benzene	78	3.126	3.126	0.000	96	273334	20.0	20.5	
59 Propionitrile	54	3.159	3.175	-0.016	98	59365	200.0	185.1	
60 Methacrylonitrile	67	3.167	3.184	-0.017	93	218875	200.0	209.6	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	96	149060	50.0	52.9	
62 Tert-amyl methyl ether	73	3.233	3.233	0.000	97	172691	20.0	20.2	
63 1,2-Dichloroethane	62	3.291	3.291	0.000	97	82144	20.0	20.7	
64 Isobutyl alcohol	43	3.357	3.381	-0.024	98	40045	500.0	412.5	
65 t-Amyl alcohol	59	3.422	3.431	-0.009	97	29130	NC	NC	
* 66 Fluorobenzene	96	3.464	3.464	0.000	99	555415	50.0	50.0	
67 Isopropyl acetate	43	3.538	3.546	-0.008	99	100173	20.0	20.7	
68 Methylcyclohexane	83	3.587	3.579	0.008	95	56304	20.0	20.8	
69 Trichloroethene	95	3.604	3.612	-0.008	98	61371	20.0	18.8	
70 2-ethoxy-2-methyl butane	59	3.842	3.842	0.000	97	163079	NC	NC	
71 Dibromomethane	93	3.974	3.990	-0.016	97	35933	20.0	19.1	
73 1,2-Dichloropropane	63	4.064	4.064	0.000	93	75367	20.0	20.8	
74 Dichlorobromomethane	83	4.147	4.147	0.000	99	85742	20.0	20.3	
75 Ethyl acrylate	55	4.147	4.180	-0.033	69	63040	20.0	20.5	
72 n-Butanol	56	3.990	4.254	-0.264	92	21226	500.0	360.2	
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	51	21650	1000.0	1000.0	
77 Methyl methacrylate	100	4.336	4.344	-0.008	92	26071	40.0	39.7	
78 1,4-Dioxane	88	4.352	4.361	-0.009	37	11141	400.0	388.2	
79 n-Propyl acetate	43	4.501	4.517	-0.016	98	68444	20.0	20.1	
80 2-Chloroethyl vinyl ether	63	4.756	4.797	-0.041	96	28051	20.0	17.2	
81 cis-1,3-Dichloropropene	75	4.780	4.797	-0.017	93	104624	20.0	20.3	
$ 82 Toluene-d8 (Surr)	98	4.970	4.970	0.000	99	511166	50.0	51.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Toluene	91	5.027	5.035	-0.008	93	253826	20.0	19.7	
84 Epichlorohydrin	57	5.085	5.093	-0.008	1	4268	20.0	20.5	
85 2-Nitropropane	41	5.299	5.299	0.000	99	21578	40.0	39.6	
86 Tetrachloroethene	166	5.447	5.447	0.000	98	47642	20.0	18.5	
87 4-Methyl-2-pentanone (MIBK)	43	5.505	5.504	0.001	96	238674	100.0	93.3	
88 trans-1,3-Dichloropropene	75	5.529	5.546	-0.017	95	85384	20.0	18.9	
89 1,1,2-Trichloroethane	83	5.702	5.710	-0.008	95	45158	20.0	20.3	
90 Ethyl methacrylate	69	5.784	5.793	-0.009	92	67054	20.0	19.9	
91 Chlorodibromomethane	129	5.900	5.900	0.000	98	56654	20.0	19.5	
92 1,3-Dichloropropane	76	6.015	6.023	-0.008	95	91416	20.0	19.5	
93 Ethylene Dibromide	107	6.138	6.163	-0.025	99	50519	20.0	20.6	
94 n-Butyl acetate	43	6.492	6.500	-0.008	98	65522	20.0	17.2	
95 2-Hexanone	43	6.558	6.574	-0.016	98	164168	100.0	95.6	
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	87	411533	50.0	50.0	
97 Chlorobenzene	112	6.846	6.838	0.008	93	156702	20.0	19.4	
98 Ethylbenzene	106	6.928	6.936	-0.008	99	72443	20.0	19.4	
99 1,1,1,2-Tetrachloroethane	133	6.953	6.953	0.000	94	51445	20.0	18.7	
100 m-Xylene & p-Xylene	106	7.142	7.150	-0.008	97	84815	20.0	18.6	
101 o-Xylene	106	7.727	7.727	0.001	95	89259	20.0	20.1	
102 Bromoform	173	7.792	7.792	0.000	95	32841	20.0	19.2	
103 Styrene	104	7.809	7.833	-0.024	97	153383	20.0	20.2	
104 n-Butyl acrylate	73	8.146	8.163	-0.017	98	32705	20.0	16.2	
105 Isopropylbenzene	105	8.204	8.212	-0.008	96	187449	20.0	20.1	
106 Amyl acetate (mixed isomers)	43	8.558	8.574	-0.016	91	85200	20.0	21.3	
$ 107 4-Bromofluorobenzene	174	8.583	8.582	0.001	90	138706	50.0	47.9	
108 Bromobenzene	156	8.690	8.698	-0.008	99	62555	20.0	19.7	
109 N-Propylbenzene	91	8.838	8.838	0.000	99	213241	20.0	20.9	
110 1,1,2,2-Tetrachloroethane	83	8.994	9.002	-0.008	97	60740	20.0	20.8	
111 2-Chlorotoluene	91	9.010	9.019	-0.009	97	167774	20.0	21.2	
112 4-Ethyltoluene	105	9.027	9.035	-0.008	98	178010	20.0	20.8	
113 1,2,3-Trichloropropane	110	9.126	9.134	-0.008	98	16934	20.0	20.8	
114 1,3,5-Trimethylbenzene	105	9.183	9.183	0.000	93	148197	20.0	21.2	
116 4-Chlorotoluene	91	9.274	9.290	-0.016	98	159699	20.0	21.4	
115 trans-1,4-Dichloro-2-butene	75	9.257	9.298	-0.041	89	24176	20.0	18.6	
117 tert-Butylbenzene	119	9.644	9.652	-0.008	94	117057	20.0	20.7	
119 1,2,4-Trimethylbenzene	105	9.776	9.784	-0.008	98	157069	20.0	21.4	
118 Butyl Methacrylate	87	9.792	9.800	-0.008	94	62898	20.0	17.5	
120 sec-Butylbenzene	105	9.932	9.940	-0.008	99	169748	20.0	21.5	
121 1,3-Dichlorobenzene	146	10.196	10.212	-0.016	96	98242	20.0	20.3	
122 4-Isopropyltoluene	119	10.212	10.212	0.000	98	147787	20.0	21.6	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	96	168132	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.352	10.360	-0.008	94	108353	20.0	20.6	
125 1,2,3-Trimethylbenzene	105	10.459	10.459	0.000	99	170748	20.0	21.5	
126 2,3-Dihydroindene	117	10.632	10.632	0.000	94	181530	20.0	21.2	
128 Benzyl chloride	126	10.813	10.821	-0.008	97	20060	20.0	18.6	
127 p-Diethylbenzene	119	10.829	10.829	0.000	93	77558	20.0	22.2	
129 n-Butylbenzene	92	10.912	10.911	0.001	98	70662	20.0	21.4	
130 1,2-Dichlorobenzene	146	11.027	11.035	-0.008	95	99190	20.0	19.9	
131 1,2,4,5-Tetramethylbenzene	119	11.874	11.874	0.000	98	140050	20.0	22.1	
132 1,2-Dibromo-3-Chloropropane	157	11.998	11.998	0.000	95	11675	20.0	20.0	
133 1,3,5-Trichlorobenzene	180	12.023	12.031	-0.008	97	62765	20.0	20.4	
134 1,2,4-Trichlorobenzene	180	12.541	12.549	-0.008	94	60972	20.0	22.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 Hexachlorobutadiene	225	12.549	12.549	0.000	95	31099	20.0	23.6	
136 Naphthalene	128	12.755	12.763	-0.008	99	138948	20.0	23.8	
137 1,2,3-Trichlorobenzene	180	12.878	12.878	0.000	96	53757	20.0	22.9	
S 138 1,2-Dichloroethene, Total	100				0		40.0	40.1	
S 139 1,3-Dichloropropene, Total	100				0		40.0	39.2	
S 140 Xylenes, Total	100				0		40.0	38.7	
S 141 Total BTEX	1				0		100.0	98.3	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8FreonsSS_00027	Amount Added: 20.00	Units: uL		
GAS C SP_00391	Amount Added: 20.00	Units: uL		
8260 SP_00134	Amount Added: 20.00	Units: uL		
ACROLEIN SP_00120	Amount Added: 4.00	Units: uL		
8260ISNEW_00140	Amount Added: 1.00	Units: uL	Run Reagent	
8260SURR250_00214	Amount Added: 1.00	Units: uL	Run Reagent	

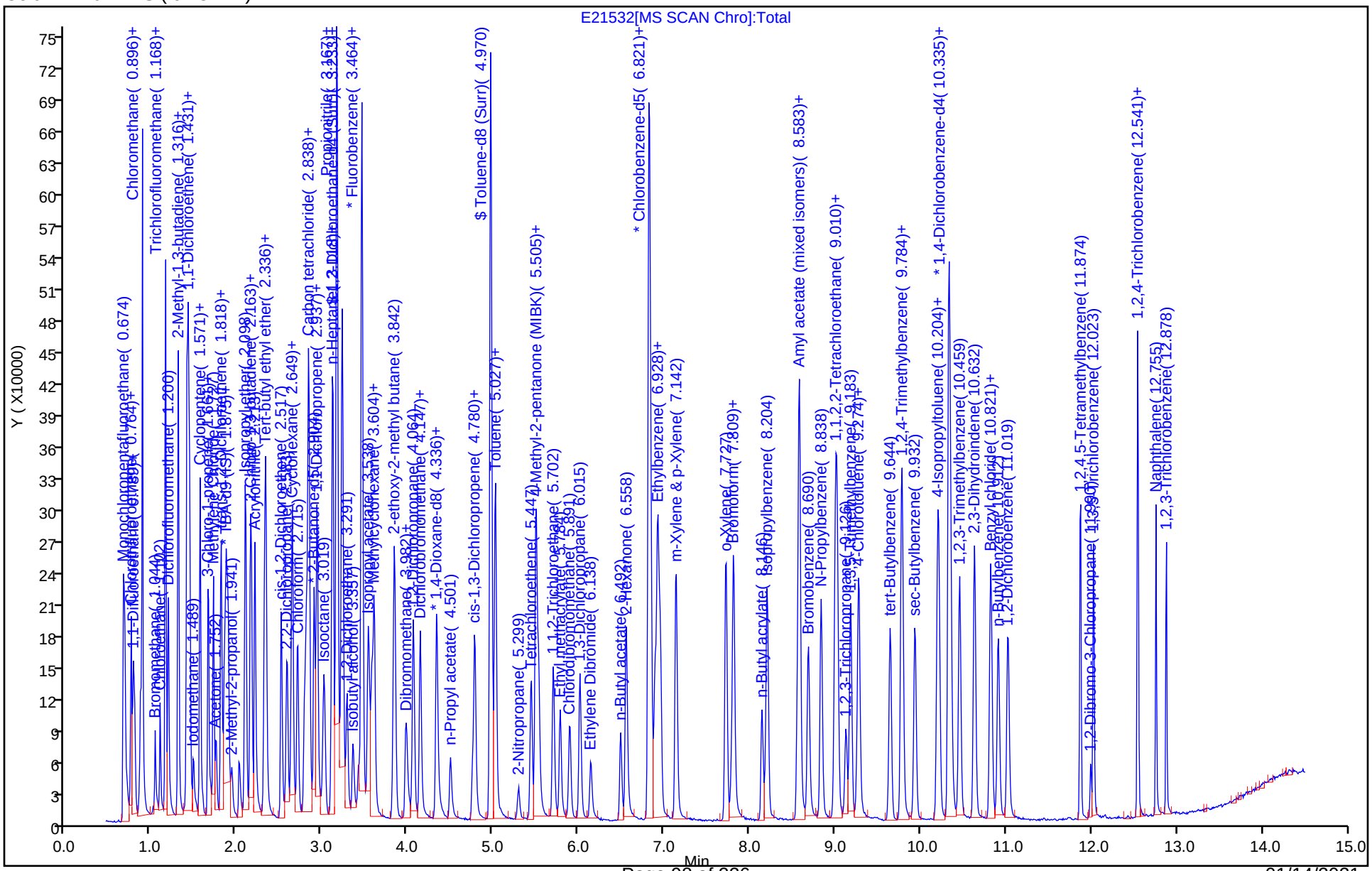
Report Date: 08-Jan-2021 19:13:29 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21532.D

Injection Date:	08-Jan-2021 02:15:30	Instrument ID:	CVOAMS5	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260W_5	Limit Group:	VOA - 8260D Water and Solid		

Column: Rtx-VMS (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab Sample ID: CCVIS 460-751761/3 Calibration Date: 01/09/2021 09:46

Instrument ID: CVOAMS5 Calib Start Date: 01/07/2021 21:20

GC Column: Rtx-VMS ID: 0.18(mm) Calib End Date: 01/07/2021 23:48

Lab File ID: E21536.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3865	0.4275	0.1000	22.1	20.0	10.6	20.0
Chloromethane	Ave	0.5631	0.5731	0.1000	20.4	20.0	1.8	20.0
Vinyl chloride	Ave	0.3904	0.4045	0.1000	20.7	20.0	3.6	20.0
Butadiene	Ave	0.3620	0.3986		22.0	20.0	10.1	20.0
Bromomethane	Ave	0.1231	0.1327	0.1000	21.6	20.0	7.8	50.0
Chloroethane	Ave	2.371	2.798	0.1000	23.6	20.0	18.0	50.0
Pentane	Ave	0.3682	0.4335		47.1	40.0	17.8	20.0
Trichlorofluoromethane	Ave	0.3750	0.4119	0.1000	22.0	20.0	9.8	20.0
Dichlorofluoromethane	Ave	0.4661	0.4978		21.4	20.0	6.8	20.0
2-Methyl-1,3-butadiene	Ave	0.3653	0.4131		22.6	20.0	13.1	20.0
Ethyl ether	Ave	0.2126	0.2314		21.8	20.0	8.8	20.0
Ethanol	Ave	0.1580	0.1706		864	800	8.0	50.0
1,1-Dichloroethene	Ave	0.2374	0.2522	0.1000	21.2	20.0	6.2	20.0
Carbon disulfide	Ave	0.8851	0.9451	0.1000	21.4	20.0	6.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1827	0.2101	0.1000	23.0	20.0	15.0	20.0
Iodomethane	QuaF		0.2121		14.0	20.0	-30.0*	20.0
Cyclopentene	Ave	0.6574	0.7064		21.5	20.0	7.5	20.0
Acrolein	Ave	1.576	1.714		43.5	40.0	8.8	50.0
3-Chloro-1-propene	Ave	0.1757	0.1752		19.9	20.0	-0.3	20.0
Isopropyl alcohol	Ave	0.6960	0.7387		212	200	6.1	50.0
Methylene Chloride	Ave	0.3091	0.3104	0.1000	20.1	20.0	0.4	20.0
Acetone	Ave	0.2440	0.2044	0.0500	83.8	100	-16.2	50.0
trans-1,2-Dichloroethene	Ave	0.2993	0.2918	0.1000	19.5	20.0	-2.5	20.0
Methyl acetate	Ave	2.332	2.248	0.1000	38.6	40.0	-3.6	20.0
Hexane	Qua2		2.805		23.2	20.0	15.9	20.0
Methyl tert-butyl ether	Ave	0.7459	0.7712	0.1000	20.7	20.0	3.4	20.0
2-Methyl-2-propanol	Ave	1.295	1.221		189	200	-5.7	50.0
Acetonitrile	Ave	1.976	1.779		180	200	-10.0	20.0
Isopropyl ether	Ave	1.009	1.074		21.3	20.0	6.4	20.0
2-Chloro-1,3-butadiene	Ave	0.2506	0.2534		20.2	20.0	1.1	20.0
1,1-Dichloroethane	Ave	0.5587	0.5777	0.2000	20.7	20.0	3.4	20.0
Acrylonitrile	Ave	0.0704	0.0739		210	200	4.9	20.0
Tert-butyl ethyl ether	Ave	0.8811	0.9245		21.0	20.0	4.9	20.0
Vinyl acetate	Ave	0.6304	0.6668		42.3	40.0	5.8	20.0
cis-1,2-Dichloroethene	Ave	0.3265	0.3008	0.1000	18.4	20.0	-7.9	20.0
2,2-Dichloropropane	Ave	0.4094	0.4308		21.0	20.0	5.2	20.0
Cyclohexane	Ave	0.3247	0.3594	0.1000	22.1	20.0	10.7	50.0
Chlorobromomethane	Ave	0.1485	0.1479		19.9	20.0	-0.4	20.0
Chloroform	Ave	0.5041	0.4978	0.2000	19.8	20.0	-1.2	20.0
Carbon tetrachloride	Ave	0.3186	0.3050	0.1000	19.1	20.0	-4.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab Sample ID: CCVIS 460-751761/3 Calibration Date: 01/09/2021 09:46

Instrument ID: CVOAMS5 Calib Start Date: 01/07/2021 21:20

GC Column: Rtx-VMS ID: 0.18(mm) Calib End Date: 01/07/2021 23:48

Lab File ID: E21536.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.3413	0.3204		37.5	40.0	-6.1	20.0
Methyl acrylate	Ave	0.2044	0.1988		19.5	20.0	-2.7	20.0
Tetrahydrofuran	Ave	1.061	1.055		39.8	40.0	-0.6	20.0
1,1,1-Trichloroethane	Ave	0.4025	0.3966	0.1000	19.7	20.0	-1.5	20.0
1,1-Dichloropropene	Ave	0.3972	0.3936		19.8	20.0	-0.9	20.0
2-Butanone (MEK)	Ave	0.3622	0.3504	0.0500	96.7	100	-3.3	50.0
Isooctane	Ave	0.4836	0.5345		22.1	20.0	10.5	20.0
n-Heptane	Ave	0.1050	0.1169		22.3	20.0	11.3	20.0
Benzene	Ave	1.620	1.680	0.5000	20.7	20.0	3.7	20.0
Propionitrile	Ave	1.936	1.950		201	200	0.7	20.0
Methacrylonitrile	Ave	0.0940	0.1007		214	200	7.1	20.0
Tert-amyl methyl ether	Ave	0.7713	0.7821		20.3	20.0	1.4	20.0
1,2-Dichloroethane	Ave	0.3565	0.3615	0.1000	20.3	20.0	1.4	20.0
Isobutyl alcohol	Ave	0.5859	0.5548		473	500	-5.3	50.0
Isopropyl acetate	Ave	0.4355	0.4670		21.4	20.0	7.2	20.0
Methylcyclohexane	Ave	0.2442	0.2685	0.1000	22.0	20.0	9.9	50.0
Trichloroethene (TCE)	Ave	0.2933	0.2715	0.2000	18.5	20.0	-7.4	20.0
Dibromomethane	Ave	0.1697	0.1624		19.1	20.0	-4.3	20.0
n-Butanol	QuaF		0.2905		408	500	-18.3	50.0
1,2-Dichloropropane	Ave	0.3261	0.3367	0.1000	20.7	20.0	3.3	20.0
Dichlorobromomethane	Ave	0.3794	0.3779	0.2000	19.9	20.0	-0.4	20.0
Ethyl acrylate	Ave	0.2768	0.2753		19.9	20.0	-0.5	20.0
Methyl methacrylate	Ave	0.0592	0.0575		38.9	40.0	-2.8	20.0
1,4-Dioxane	Ave	1.325	1.421		429	400	7.2	50.0
n-Propyl acetate	Ave	0.3062	0.3110		20.3	20.0	1.6	20.0
2-Chloroethyl vinyl ether	QuaF		0.1336		18.3	20.0	-8.9	20.0
cis-1,3-Dichloropropene	Ave	0.6265	0.6666	0.2000	21.3	20.0	6.4	50.0
Toluene	Ave	1.569	1.598	0.4000	20.4	20.0	1.9	20.0
Epichlorohydrin	Ave	0.2209	0.2254		408	400	2.0	20.0
2-Nitropropane	Ave	3.286	3.309		40.3	40.0	0.7	20.0
Tetrachloroethene	Ave	0.3128	0.2982	0.2000	19.1	20.0	-4.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	2.711	2.714	0.0500	100	100	0.1	50.0
trans-1,3-Dichloropropene	Ave	0.5489	0.5878	0.1000	21.4	20.0	7.1	50.0
1,1,2-Trichloroethane	Ave	0.2707	0.2798	0.1000	20.7	20.0	3.4	20.0
Ethyl methacrylate	Ave	0.4093	0.4240		20.7	20.0	3.6	20.0
Chlorodibromomethane	Ave	0.3532	0.3422	0.1000	19.4	20.0	-3.1	50.0
1,3-Dichloropropane	Ave	0.5706	0.5810		20.4	20.0	1.8	20.0
Ethylene Dibromide	Ave	0.2986	0.3017	0.1000	20.2	20.0	1.1	20.0
n-Butyl acetate	QuaF		0.4215		18.2	20.0	-9.0	20.0
2-Hexanone	Ave	1.820	1.813	0.0500	99.6	100	-0.4	50.0
Chlorobenzene	Ave	0.9825	0.9768	0.5000	19.9	20.0	-0.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab Sample ID: CCVIS 460-751761/3 Calibration Date: 01/09/2021 09:46

Instrument ID: CVOAMS5 Calib Start Date: 01/07/2021 21:20

GC Column: Rtx-VMS ID: 0.18(mm) Calib End Date: 01/07/2021 23:48

Lab File ID: E21536.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylbenzene	Ave	0.4533	0.4450	0.1000	19.6	20.0	-1.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3339	0.3239		19.4	20.0	-3.0	20.0
m-Xylene & p-Xylene	Ave	0.5529	0.5281	0.1000	19.1	20.0	-4.5	20.0
o-Xylene	Ave	0.5408	0.5404	0.3000	20.0	20.0	-0.0	20.0
Bromoform	Ave	0.5097	0.5110	0.1000	20.1	20.0	0.3	20.0
Styrene	Ave	0.9215	0.9256	0.3000	20.1	20.0	0.4	20.0
n-Butyl acrylate	QuaF		0.2076		16.9	20.0	-15.6	20.0
Isopropylbenzene	Ave	1.130	1.152	0.1000	20.4	20.0	1.9	20.0
Amyl acetate (mixed isomers)	Ave	1.192	1.290		21.6	20.0	8.2	20.0
Bromobenzene	Ave	0.9454	0.9058		19.2	20.0	-4.2	20.0
N-Propylbenzene	Ave	3.037	3.190		21.0	20.0	5.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8692	0.9221	0.3000	21.2	20.0	6.1	20.0
2-Chlorotoluene	Ave	2.357	2.475		21.0	20.0	5.0	20.0
4-Ethyltoluene	Ave	2.539	2.667		21.0	20.0	5.0	20.0
1,2,3-Trichloropropane	Ave	0.2422	0.2507		20.7	20.0	3.5	20.0
1,3,5-Trimethylbenzene	Ave	2.079	2.142		20.6	20.0	3.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3859	0.3878		20.1	20.0	0.5	20.0
4-Chlorotoluene	Ave	2.214	2.294		20.7	20.0	3.6	20.0
tert-Butylbenzene	Ave	1.683	1.695		20.1	20.0	0.7	20.0
1,2,4-Trimethylbenzene	Ave	2.185	2.277		20.8	20.0	4.2	20.0
Butyl Methacrylate	QuaF		0.9110		17.1	20.0	-14.6	20.0
sec-Butylbenzene	Ave	2.344	2.446		20.9	20.0	4.3	20.0
1,3-Dichlorobenzene	Ave	1.439	1.409	0.6000	19.6	20.0	-2.1	20.0
4-Isopropyltoluene	Ave	2.038	2.122		20.8	20.0	4.1	20.0
1,4-Dichlorobenzene	Ave	1.561	1.518	0.5000	19.5	20.0	-2.7	20.0
1,2,3-Trimethylbenzene	Ave	2.357	2.464		20.9	20.0	4.6	20.0
Indan	Ave	2.546	2.593		20.4	20.0	1.8	20.0
Benzyl chloride	Ave	0.3213	0.3431		21.4	20.0	6.8	50.0
p-Diethylbenzene	Ave	1.040	1.091		21.0	20.0	4.9	20.0
n-Butylbenzene	Ave	0.9799	1.106		22.6	20.0	12.9	20.0
1,2-Dichlorobenzene	Ave	1.480	1.448	0.4000	19.6	20.0	-2.2	20.0
1,2,4,5-Tetramethylbenzene	Ave	1.884	2.003		21.3	20.0	6.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1740	0.1729	0.0500	19.9	20.0	-0.6	50.0
1,3,5-Trichlorobenzene	Ave	0.9133	0.9338		20.4	20.0	2.2	20.0
1,2,4-Trichlorobenzene	Ave	0.8061	0.8285	0.2000	20.6	20.0	2.8	20.0
Hexachlorobutadiene	Ave	0.3921	0.4050		20.7	20.0	3.3	20.0
Naphthalene	Ave	1.736	1.850		21.3	20.0	6.6	50.0
1,2,3-Trichlorobenzene	Ave	0.6981	0.7004		20.1	20.0	0.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2459	0.2425		49.3	50.0	-1.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2536	0.2700		53.2	50.0	6.5	20.0
Toluene-d8 (Surr)	Ave	1.216	1.238		50.9	50.0	1.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab Sample ID: CCVIS 460-751761/3 Calibration Date: 01/09/2021 09:46

Instrument ID: CVOAMS5 Calib Start Date: 01/07/2021 21:20

GC Column: Rtx-VMS ID: 0.18(mm) Calib End Date: 01/07/2021 23:48

Lab File ID: E21536.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene	Ave	0.3520	0.3349		47.6	50.0	-4.9	20.0

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21536.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Jan-2021 09:46:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0122633-003
Operator ID: Instrument ID: CVOAMS5
Sublist: chrom-8260W_5*sub64

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 09-Jan-2021 15:04:37 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1619

First Level Reviewer: starzecm Date: 09-Jan-2021 11:53:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	98	93435	20.0	22.1	
6 Chloromethane	50	0.871	0.871	0.000	99	125261	20.0	20.4	
7 Vinyl chloride	62	0.888	0.888	0.000	98	88416	20.0	20.7	
8 Butadiene	54	0.896	0.896	0.000	96	87135	20.0	22.0	
9 Bromomethane	94	1.044	1.044	0.000	99	29008	20.0	21.6	
10 Chloroethane	64	1.102	1.102	0.000	99	50575	20.0	23.6	
12 Pentane	72	1.167	1.167	0.000	96	15673	40.0	47.1	
11 Trichlorofluoromethane	101	1.167	1.167	0.000	72	90034	20.0	22.0	
13 Dichlorofluoromethane	67	1.200	1.200	0.000	98	108814	20.0	21.4	
14 2-Methyl-1,3-butadiene	67	1.316	1.316	0.000	98	90304	20.0	22.6	
15 Ethyl ether	59	1.316	1.316	0.000	93	50573	20.0	21.8	
16 Ethanol	45	1.406	1.406	0.000	22	21211	800.0	863.9	a
17 1,1-Dichloroethene	96	1.414	1.414	0.000	96	55119	20.0	21.2	
19 Carbon disulfide	76	1.431	1.431	0.000	98	206578	20.0	21.4	
20 112TCTFE	101	1.439	1.439	0.000	92	45932	20.0	23.0	
22 Iodomethane	142	1.488	1.488	0.000	98	46368	20.0	14.0	
23 Cyclopentene	67	1.571	1.571	0.000	97	154409	20.0	21.5	
24 Acrolein	56	1.595	1.595	0.000	90	10656	40.0	43.5	
25 3-Chloro-1-propene	76	1.669	1.669	0.000	92	38296	20.0	19.9	
26 Isopropyl alcohol	45	1.694	1.694	0.000	97	22964	200.0	212.3	
27 Methylene Chloride	84	1.727	1.727	0.000	96	67859	20.0	20.1	
28 Acetone	58	1.752	1.752	0.000	86	18474	100.0	83.8	
29 trans-1,2-Dichloroethene	96	1.818	1.818	0.000	97	63778	20.0	19.5	
30 Methyl acetate	74	1.826	1.826	0.000	100	13976	40.0	38.6	
31 Hexane	86	1.859	1.859	0.000	89	8720	20.0	23.2	
32 Methyl tert-butyl ether	73	1.875	1.875	0.000	91	168571	20.0	20.7	
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	99	155429	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.941	1.941	0.000	96	37967	200.0	188.6	
35 Acetonitrile	41	2.032	2.032	0.000	98	55292	200.0	180.0	a
36 Isopropyl ether	45	2.097	2.097	0.000	98	234708	20.0	21.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 2-Chloro-1,3-butadiene	88	2.155	2.155	0.000	91	55397	20.0	20.2	
38 1,1-Dichloroethane	63	2.171	2.171	0.000	100	126277	20.0	20.7	
39 Acrylonitrile	53	2.229	2.229	0.000	93	161455	200.0	209.8	
40 Tert-butyl ethyl ether	59	2.328	2.328	0.000	89	202074	20.0	21.0	
41 Vinyl acetate	86	2.344	2.344	0.000	100	24107	40.0	42.3	
42 cis-1,2-Dichloroethene	96	2.517	2.517	0.000	95	65743	20.0	18.4	
43 2,2-Dichloropropane	77	2.583	2.583	0.000	98	94173	20.0	21.0	
44 Cyclohexane	56	2.641	2.641	0.000	92	78550	20.0	22.1	
45 Chlorobromomethane	128	2.649	2.649	0.000	96	32318	20.0	19.9	
46 Chloroform	83	2.715	2.715	0.000	99	108821	20.0	19.8	
47 Carbon tetrachloride	117	2.797	2.797	0.000	97	66673	20.0	19.1	
49 Ethyl acetate	70	2.813	2.813	0.000	97	11584	40.0	37.5	
48 Methyl acrylate	55	2.813	2.813	0.000	98	43460	20.0	19.5	
50 Tetrahydrofuran	42	2.822	2.822	0.000	94	38128	40.0	39.8	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	97	132489	50.0	49.3	
52 1,1,1-Trichloroethane	97	2.846	2.846	0.000	99	86700	20.0	19.7	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	98	225954	250.0	250.0	
54 1,1-Dichloropropene	75	2.937	2.937	0.000	91	86031	20.0	19.8	
55 2-Butanone (MEK)	72	2.937	2.937	0.000	98	31668	100.0	96.7	
56 Isooctane	57	3.019	3.019	0.000	99	116824	20.0	22.1	
57 n-Heptane	57	3.110	3.110	0.000	95	25553	20.0	22.3	
58 Benzene	78	3.126	3.126	0.000	96	268297	20.0	20.7	
59 Propionitrile	54	3.159	3.159	0.000	99	60612	200.0	201.5	
60 Methacrylonitrile	67	3.175	3.175	0.000	93	220076	200.0	214.2	
62 Tert-amyl methyl ether	73	3.233	3.233	0.000	97	170949	20.0	20.3	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	96	147517	50.0	53.2	
63 1,2-Dichloroethane	62	3.291	3.291	0.000	97	79011	20.0	20.3	
64 Isobutyl alcohol	43	3.356	3.356	0.000	97	43113	500.0	473.4	
65 t-Amyl alcohol	59	3.422	3.422	0.000	98	32156	NC	NC	
* 66 Fluorobenzene	96	3.463	3.463	0.000	98	546458	50.0	50.0	
67 Isopropyl acetate	43	3.538	3.538	0.000	98	102089	20.0	21.4	
68 Methylcyclohexane	83	3.579	3.579	0.000	96	58694	20.0	22.0	
69 Trichloroethene	95	3.612	3.612	0.000	98	59336	20.0	18.5	
70 2-ethoxy-2-methyl butane	59	3.842	3.842	0.000	96	161224	NC	NC	
71 Dibromomethane	93	3.974	3.974	0.000	96	35494	20.0	19.1	
72 n-Butanol	56	3.990	3.990	0.000	88	22579	500.0	408.3	a
73 1,2-Dichloropropane	63	4.064	4.064	0.000	93	73607	20.0	20.7	
75 Ethyl acrylate	55	4.147	4.147	0.000	72	60186	20.0	19.9	
74 Dichlorobromomethane	83	4.147	4.147	0.000	99	82610	20.0	19.9	
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	96	20789	1000.0	1000.0	
77 Methyl methacrylate	100	4.336	4.336	0.000	93	25149	40.0	38.9	
78 1,4-Dioxane	88	4.352	4.352	0.000	39	11813	400.0	428.7	
79 n-Propyl acetate	43	4.500	4.500	0.000	99	67989	20.0	20.3	
80 2-Chloroethyl vinyl ether	63	4.756	4.756	0.000	96	29273	20.0	18.3	
81 cis-1,3-Dichloropropene	75	4.780	4.780	0.000	93	106465	20.0	21.3	
$ 82 Toluene-d8 (Surr)	98	4.970	4.970	0.000	99	494317	50.0	50.9	
83 Toluene	91	5.027	5.027	0.000	92	255278	20.0	20.4	
84 Epichlorohydrin	57	5.068	5.068	0.000	99	81487	400.0	408.2	
85 2-Nitropropane	41	5.299	5.299	0.000	98	20575	40.0	40.3	
86 Tetrachloroethene	166	5.447	5.447	0.000	97	47632	20.0	19.1	
87 4-Methyl-2-pentanone (MIBK)	43	5.504	5.504	0.000	97	245310	100.0	100.1	
88 trans-1,3-Dichloropropene	75	5.529	5.529	0.000	98	93878	20.0	21.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
89 1,1,2-Trichloroethane	83	5.702	5.702	0.000	95	44684	20.0	20.7	
90 Ethyl methacrylate	69	5.784	5.784	0.000	90	67711	20.0	20.7	
91 Chlorodibromomethane	129	5.891	5.891	0.000	98	54649	20.0	19.4	
92 1,3-Dichloropropane	76	6.015	6.015	0.000	95	92790	20.0	20.4	
93 Ethylene Dibromide	107	6.138	6.138	0.000	98	48189	20.0	20.2	
94 n-Butyl acetate	43	6.492	6.492	0.000	99	67316	20.0	18.2	
95 2-Hexanone	43	6.558	6.558	0.000	98	163823	100.0	99.6	
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	87	399286	50.0	50.0	
97 Chlorobenzene	112	6.846	6.846	0.000	94	156010	20.0	19.9	
98 Ethylbenzene	106	6.928	6.928	0.000	98	71069	20.0	19.6	
99 1,1,1,2-Tetrachloroethane	133	6.953	6.953	0.000	96	51729	20.0	19.4	
100 m-Xylene & p-Xylene	106	7.142	7.142	0.000	97	84347	20.0	19.1	
101 o-Xylene	106	7.726	7.726	0.000	95	86317	20.0	20.0	
102 Bromoform	173	7.792	7.792	0.000	96	34206	20.0	20.1	
103 Styrene	104	7.809	7.809	0.000	96	147835	20.0	20.1	
104 n-Butyl acrylate	73	8.146	8.146	0.000	99	33150	20.0	16.9	
105 Isopropylbenzene	105	8.204	8.204	0.000	96	184033	20.0	20.4	
106 Amyl acetate (mixed isomers)	43	8.558	8.558	0.000	90	86338	20.0	21.6	
$ 107 4-Bromofluorobenzene	174	8.582	8.582	0.000	90	133720	50.0	47.6	
108 Bromobenzene	156	8.689	8.689	0.000	99	60634	20.0	19.2	
109 N-Propylbenzene	91	8.837	8.837	0.000	99	213549	20.0	21.0	
110 1,1,2,2-Tetrachloroethane	83	8.994	8.994	0.000	98	61728	20.0	21.2	
111 2-Chlorotoluene	91	9.010	9.010	0.000	97	165677	20.0	21.0	
112 4-Ethyltoluene	105	9.027	9.027	0.000	98	178551	20.0	21.0	
113 1,2,3-Trichloropropane	110	9.126	9.126	0.000	97	16780	20.0	20.7	
114 1,3,5-Trimethylbenzene	105	9.183	9.183	0.000	94	143377	20.0	20.6	
115 trans-1,4-Dichloro-2-butene	75	9.257	9.257	0.000	88	25962	20.0	20.1	
116 4-Chlorotoluene	91	9.282	9.282	0.000	98	153548	20.0	20.7	
117 tert-Butylbenzene	119	9.644	9.644	0.000	95	113441	20.0	20.1	
119 1,2,4-Trimethylbenzene	105	9.776	9.776	0.000	97	152449	20.0	20.8	
118 Butyl Methacrylate	87	9.792	9.792	0.000	95	60983	20.0	17.1	
120 sec-Butylbenzene	105	9.932	9.932	0.000	99	163708	20.0	20.9	
121 1,3-Dichlorobenzene	146	10.195	10.195	0.000	95	94315	20.0	19.6	
122 4-Isopropyltoluene	119	10.212	10.212	0.000	99	142031	20.0	20.8	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	96	167351	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.352	10.352	0.000	94	101630	20.0	19.5	
125 1,2,3-Trimethylbenzene	105	10.459	10.459	0.000	99	164968	20.0	20.9	
126 2,3-Dihydroindene	117	10.632	10.632	0.000	94	173560	20.0	20.4	
128 Benzyl chloride	126	10.813	10.813	0.000	98	22966	20.0	21.4	
127 p-Diethylbenzene	119	10.821	10.821	0.000	94	73015	20.0	21.0	
129 n-Butylbenzene	92	10.911	10.911	0.000	99	74043	20.0	22.6	
130 1,2-Dichlorobenzene	146	11.027	11.027	0.000	96	96940	20.0	19.6	
131 1,2,4,5-Tetramethylbenzene	119	11.874	11.874	0.000	98	134074	20.0	21.3	
132 1,2-Dibromo-3-Chloropropane	157	11.989	11.989	0.000	97	11577	20.0	19.9	
133 1,3,5-Trichlorobenzene	180	12.022	12.022	0.000	98	62508	20.0	20.4	
134 1,2,4-Trichlorobenzene	180	12.541	12.541	0.000	93	55459	20.0	20.6	
135 Hexachlorobutadiene	225	12.549	12.549	0.000	95	27113	20.0	20.7	
136 Naphthalene	128	12.755	12.755	0.000	99	123872	20.0	21.3	
137 1,2,3-Trichlorobenzene	180	12.878	12.878	0.000	95	46882	20.0	20.1	
S 138 1,2-Dichloroethene, Total	100				0		40.0	37.9	
S 139 1,3-Dichloropropene, Total	100				0		40.0	42.7	
S 140 Xylenes, Total	100				0		40.0	39.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 141 Total BTEX	1				0		100.0	99.8	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
a - User Assigned ID

Reagents:

8260MIX1COMB_00131	Amount Added:	20.00	Units: uL	
ACROLEIN W_00117	Amount Added:	4.00	Units: uL	
GASES Li_00402	Amount Added:	20.00	Units: uL	
8260ISNEW_00140	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00214	Amount Added:	1.00	Units: uL	Run Reagent

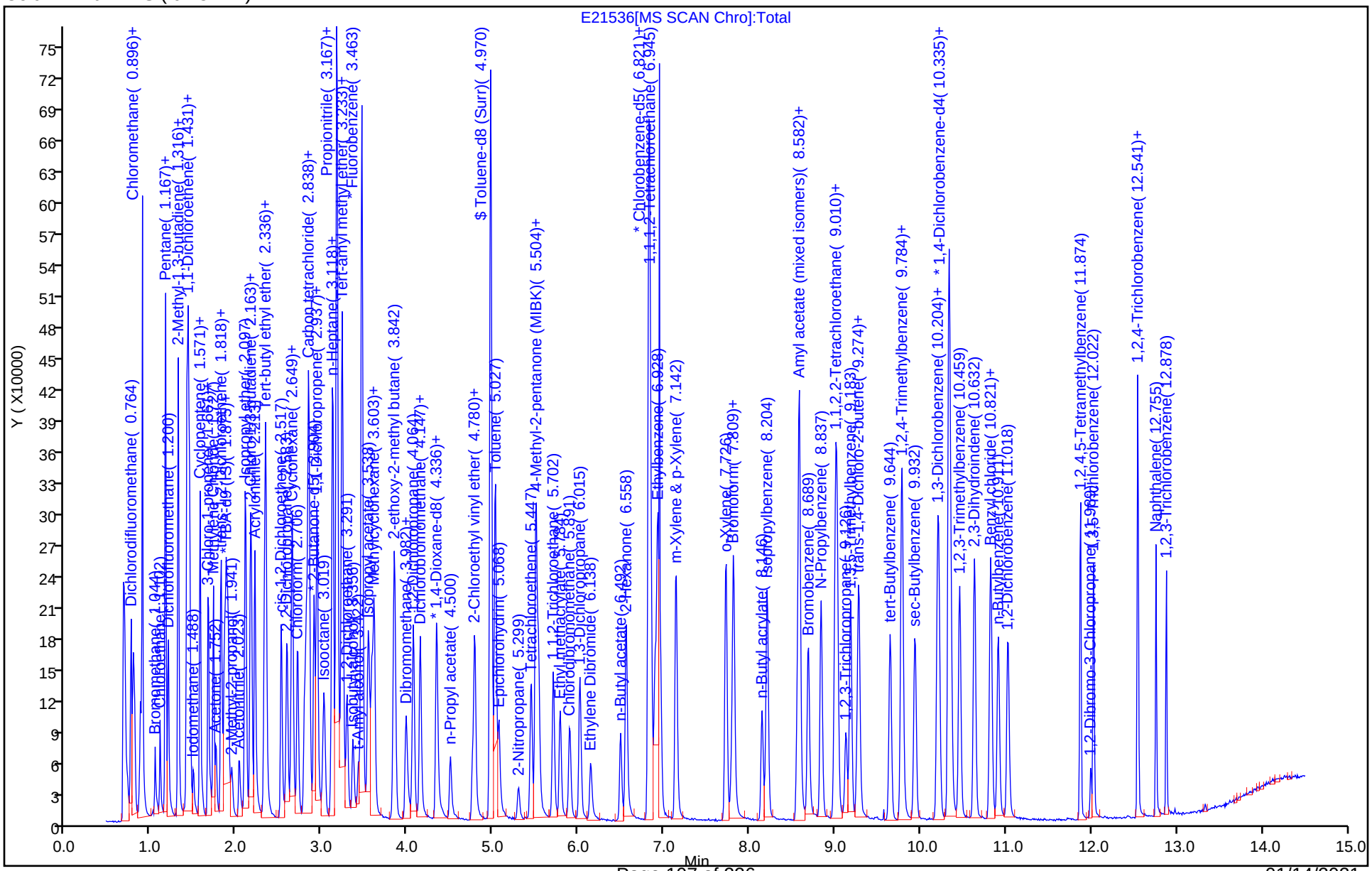
Report Date: 09-Jan-2021 15:04:39 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21536.D

Injection Date:	09-Jan-2021 09:46:30	Instrument ID:	CVOAMS5	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W_5	Limit Group:	VOA - 8260D Water and Solid		

Column: Rtx-VMS (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21518.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 07-Jan-2021 20:31:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0122590-001
Operator ID: Instrument ID: CVOAMS5

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 08-Jan-2021 19:13:20 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1611

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 143 BFB	95	2.029	2.029	0.000	0	87318	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

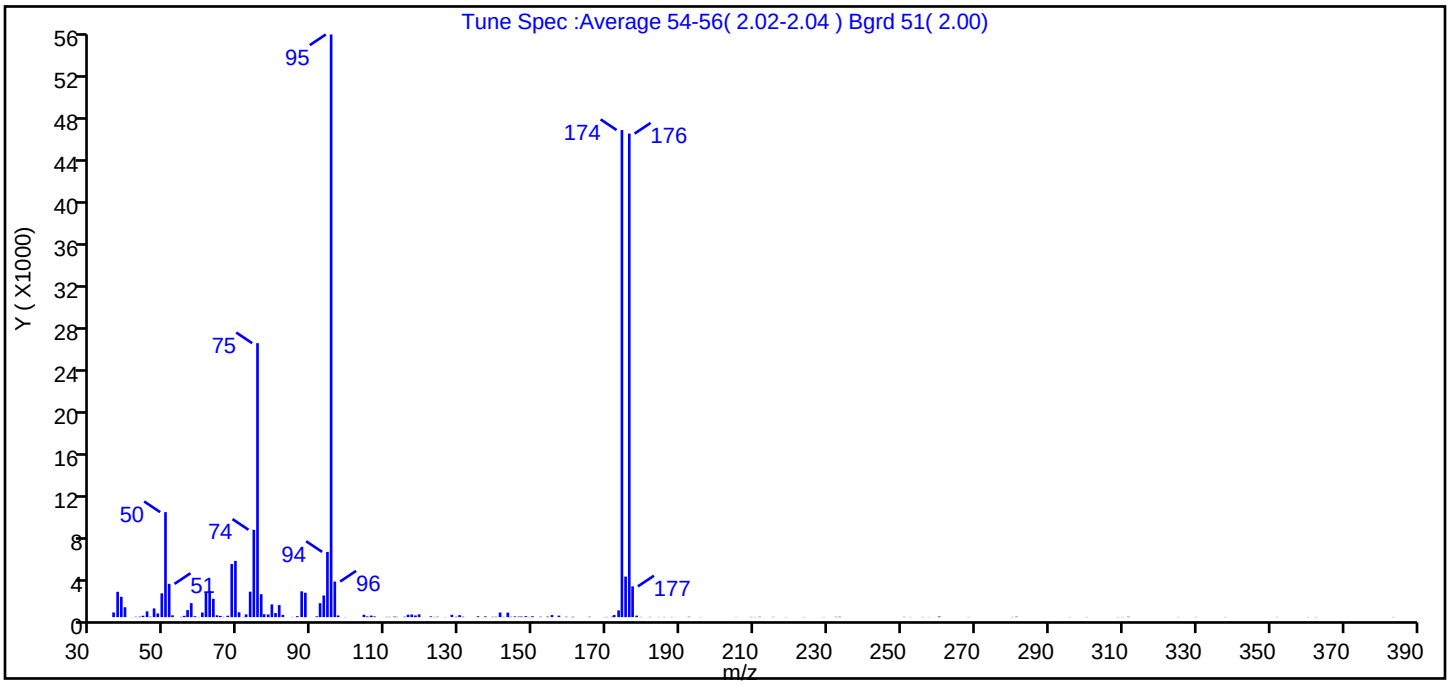
BFB_00027 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21518.D
Injection Date: 07-Jan-2021 20:31:30 Instrument ID: CVOAMS5
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_5 Limit Group: VOA - 8260D Water and Solid
Tune Method: BFB Method 8260

$ 143 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.0
75	30 to 60% of m/z 95	47.0
96	5 to 9% of m/z 95	6.1
173	Less than 2% of m/z 174	1.2 (1.4)
174	50 to 120% of m/z 95	83.6
175	5 to 9% of m/z 174	7.0 (8.3)
176	Greater than 95% but less than 101% of m/z 174	83.0 (99.3)
177	5 to 9% of m/z 176	5.3 (6.4)

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21518.D\8260W_5.rslt\spectra.d
Injection Date: 07-Jan-2021 20:31:30
Spectrum: Tune Spec :Average 54-56(2.02-2.04) Bgrd 51(2.00)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 147

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	444	75.00	25872	128.00	224	182.00	24
37.00	2393	76.00	2168	129.00	38	184.00	19
38.00	1919	77.00	278	130.00	189	186.00	20
39.00	934	78.00	258	131.00	46	188.00	18
41.00	9	79.00	1204	135.00	82	192.00	36
42.00	36	80.00	385	137.00	71	195.00	18
43.00	43	81.00	1137	139.00	33	205.00	17
44.00	134	82.00	216	140.00	36	209.00	24
45.00	546	84.00	18	141.00	436	210.00	17
46.00	44	86.00	94	142.00	26	211.00	36
47.00	824	87.00	2439	143.00	428	215.00	26
48.00	347	88.00	2303	144.00	34	219.00	17
49.00	2251	91.00	77	145.00	69	224.00	17
50.00	9916	92.00	1315	146.00	50	229.00	16
51.00	3142	93.00	2049	147.00	53	232.00	30
52.00	174	94.00	6161	148.00	92	233.00	39
54.00	28	95.00	55024	149.00	22	251.00	26
55.00	127	96.00	3363	150.00	83	252.00	18
56.00	667	97.00	158	152.00	41	256.00	21
57.00	1323	99.00	17	154.00	51	257.00	17
58.00	91	104.00	228	155.00	196	260.00	60
59.00	20	105.00	70	157.00	143	268.00	18
60.00	435	106.00	148	159.00	41	280.00	19
61.00	2308	107.00	67	161.00	22	281.00	41
62.00	2458	110.00	24	161.00	26	296.00	18
63.00	1736	111.00	25	165.00	37	300.00	18
64.00	175	112.00	47	169.00	17	309.00	19
65.00	116	113.00	29	170.00	23	310.00	19
66.00	27	115.00	41	172.00	52	312.00	39
67.00	136	116.00	232	172.00	197	325.00	18
68.00	5021	117.00	253	173.00	638	330.00	20
69.00	5313	118.00	157	174.00	46000	338.00	18
70.00	455	119.00	263	175.00	3832	352.00	19

Report Date: 08-Jan-2021 19:13:21 Chrom Revision: 2.3 09-Dec-2020 16:22:14
Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21518.D\8260W_5.rslt\spectra.d
Injection Date: 07-Jan-2021 20:31:30
Spectrum: Tune Spec :Average 54-56(2.02-2.04) Bgrd 51(2.00)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 147

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	21	122.00	73	176.00	45664	360.00	17
72.00	258	123.00	20	177.00	2905	362.00	19
73.00	2406	124.00	37	178.00	140	384.00	18
74.00	8252	126.00	17	179.00	20		

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21534.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Jan-2021 08:53:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0122633-001
Operator ID: Instrument ID: CVOAMS5

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 09-Jan-2021 11:51:18 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: starzecm Date: 09-Jan-2021 11:51:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 143 BFB	95	2.029	2.029	0.000	0	70787	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

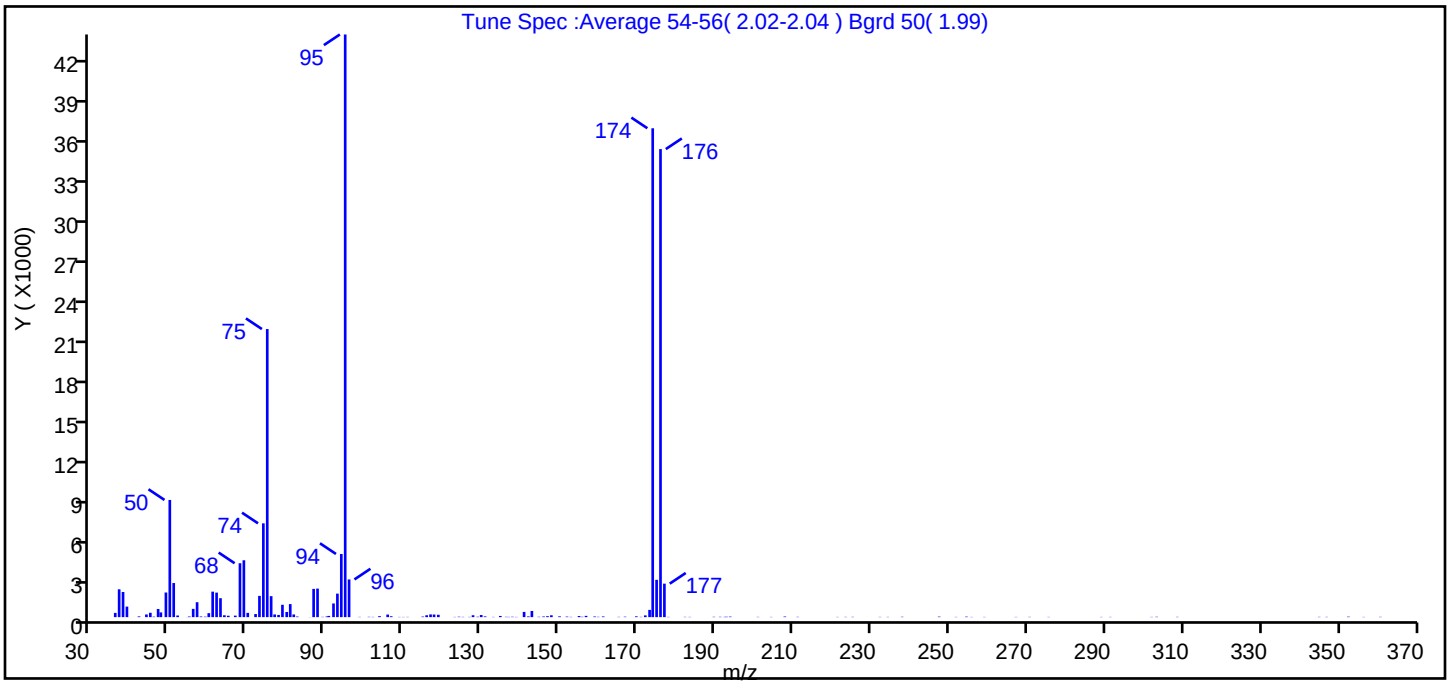
BFB_00027 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21534.D
Injection Date: 09-Jan-2021 08:53:30 Instrument ID: CVOAMS5
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_5 Limit Group: VOA - 8260D Water and Solid
Tune Method: BFB Method 8260

$ 143 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.1
75	30 to 60% of m/z 95	49.4
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	1.2 (1.5)
174	50 to 120% of m/z 95	83.9
175	5 to 9% of m/z 174	6.4 (7.6)
176	Greater than 95% but less than 101% of m/z 174	80.3 (95.7)
177	5 to 9% of m/z 176	5.7 (7.2)

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21534.D\8260W_5.rslt\spectra.d
Injection Date: 09-Jan-2021 08:53:30
Spectrum: Tune Spec :Average 54-56(2.02-2.04) Bgrd 50(1.99)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 143

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	317	78.00	165	129.00	31	182.00	21
37.00	2086	79.00	926	130.00	158	183.00	19
38.00	1883	80.00	387	131.00	55	190.00	26
39.00	789	81.00	978	133.00	18	191.00	26
42.00	56	82.00	201	135.00	89	192.00	23
44.00	201	83.00	44	136.00	25	193.00	27
45.00	327	86.00	8	137.00	19	194.00	39
46.00	35	87.00	2115	138.00	29	201.00	20
47.00	611	88.00	2139	139.00	17	204.00	17
48.00	354	89.00	22	141.00	392	208.00	45
49.00	1845	90.00	50	142.00	53	211.00	23
50.00	8778	91.00	92	143.00	463	221.00	17
51.00	2555	92.00	1025	145.00	27	223.00	20
52.00	122	93.00	1761	146.00	48	225.00	22
54.00	6	94.00	4732	147.00	71	232.00	19
55.00	47	95.00	43640	148.00	138	234.00	18
56.00	620	96.00	2824	150.00	59	238.00	27
57.00	1118	99.00	19	152.00	41	247.00	39
58.00	48	101.00	24	153.00	20	252.00	18
59.00	35	102.00	19	155.00	83	254.00	38
60.00	299	104.00	73	156.00	27	256.00	16
61.00	1909	106.00	194	157.00	96	259.00	17
62.00	1838	107.00	66	159.00	46	267.00	17
63.00	1420	109.00	17	160.00	25	271.00	21
64.00	140	110.00	16	161.00	51	276.00	17
65.00	106	111.00	18	165.00	21	289.00	17
67.00	114	115.00	43	167.00	34	291.00	18
68.00	4037	116.00	141	170.00	60	302.00	18
69.00	4260	117.00	204	171.00	20	303.00	28
70.00	320	118.00	195	172.00	130	308.00	21
72.00	231	119.00	177	173.00	544	345.00	22
73.00	1593	123.00	17	174.00	36616	347.00	20
74.00	7026	124.00	33	175.00	2796	352.00	36

Report Date: 09-Jan-2021 11:51:19 Chrom Revision: 2.3 09-Dec-2020 16:22:14
Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21534.D\8260W_5.rslt\spectra.d
Injection Date: 09-Jan-2021 08:53:30
Spectrum: Tune Spec :Average 54-56(2.02-2.04) Bgrd 50(1.99)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 143

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	21576	125.00	21	176.00	35056	356.00	17
76.00	1573	127.00	20	177.00	2508	361.00	22
77.00	202	128.00	142	178.00	19		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-751761/9

Matrix: Water Lab File ID: E21542.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 01/09/2021 12:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751761 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.26	U	1.0	0.26
156-59-2	cis-1,2-Dichloroethene	0.22	U	1.0	0.22
79-01-6	Trichloroethene (TCE)	0.31	U	1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		75-123
2037-26-5	Toluene-d8 (Surr)	108		80-120
460-00-4	4-Bromofluorobenzene	94		76-120
1868-53-7	Dibromofluoromethane (Surr)	104		77-124

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21542.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 09-Jan-2021 12:13:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0122633-009
Operator ID: Instrument ID: CVOAMS5

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 09-Jan-2021 15:06:59 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1619

First Level Reviewer: xuyvo Date: 09-Jan-2021 15:06:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Carbon disulfide	76	1.431	1.431	0.000	91	1434		0.1609	
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	99	147059	1000.0	1000.0	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	97	129214	50.0	52.2	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	99	215437	250.0	250.0	
56 Isooctane	57	3.019	3.019	0.000	86	1929		0.3962	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	95	152282	50.0	59.6	
* 66 Fluorobenzene	96	3.463	3.464	-0.001	98	503432	50.0	50.0	
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	95	18311	1000.0	1000.0	
$ 82 Toluene-d8 (Surr)	98	4.969	4.970	-0.001	99	482144	50.0	54.0	
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	87	367449	50.0	50.0	
$ 107 4-Bromofluorobenzene	174	8.582	8.582	0.000	90	121047	50.0	46.8	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	96	148543	50.0	50.0	
135 Hexachlorobutadiene	225	12.549	12.549	0.000	89	978		0.8396	

QC Flag Legend

Processing Flags

Reagents:

8260ISNEW_00140	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00214	Amount Added:	1.00	Units: uL	Run Reagent

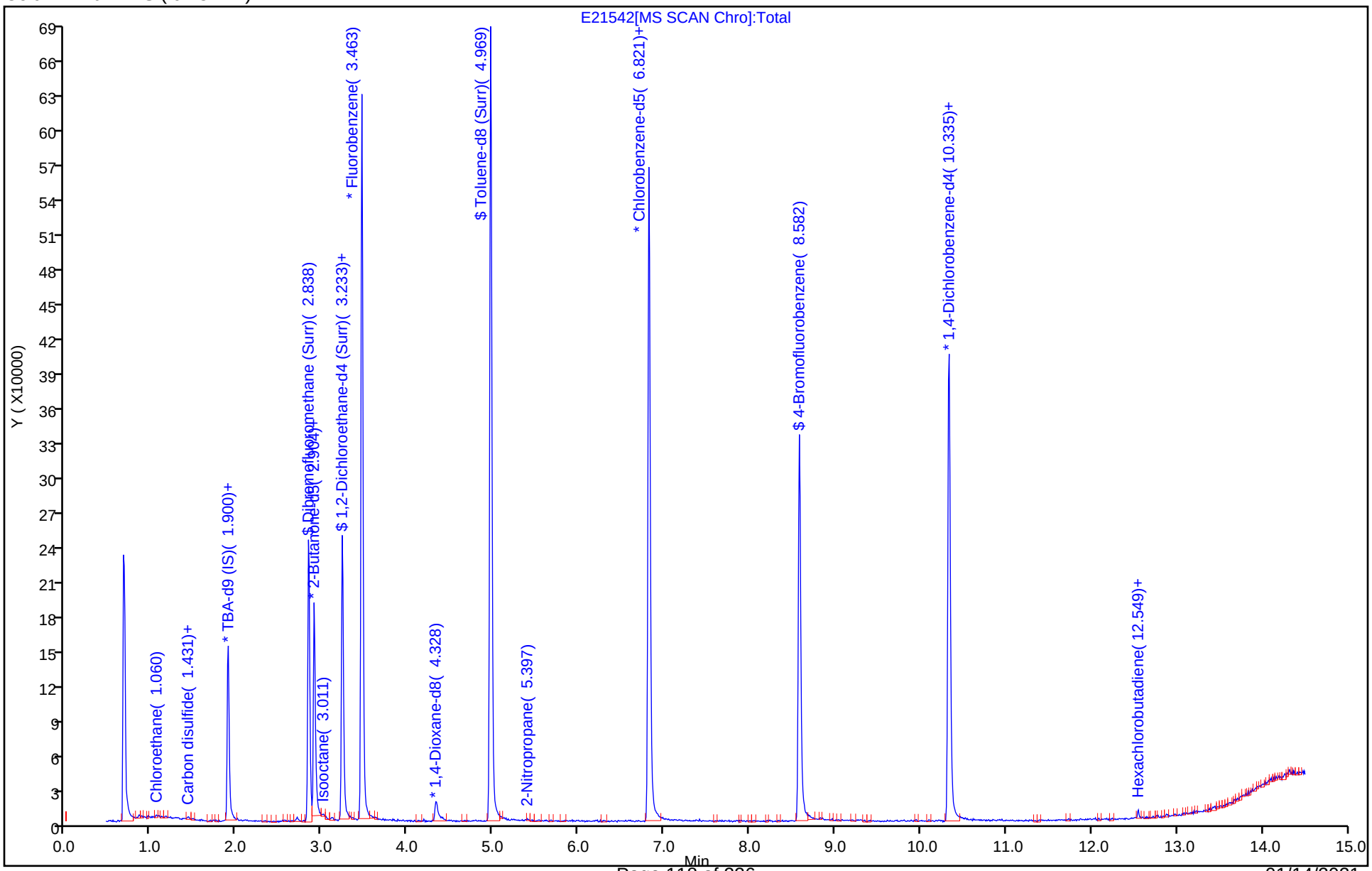
Report Date: 09-Jan-2021 15:06:59 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21542.D

Injection Date:	09-Jan-2021 12:13:30	Instrument ID:	CVOAMS5	Operator ID:	
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260W_5	Limit Group:	VOA - 8260D Water and Solid		

Column: Rtx-VMS (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-751761/4

Matrix: Water Lab File ID: E21537.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 01/09/2021 10:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751761 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	22.0		1.0	0.26
156-59-2	cis-1,2-Dichloroethene	20.7		1.0	0.22
79-01-6	Trichloroethene (TCE)	19.9		1.0	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene	96		76-120
1868-53-7	Dibromofluoromethane (Surr)	101		77-124

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21537.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Jan-2021 10:10:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0122633-004
Operator ID: Instrument ID: CVOAMS5

Method: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\8260W_5.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 09-Jan-2021 15:05:29 Calib Date: 07-Jan-2021 23:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS5\20210107-122590.b\E21526.D

Column 1 : Rtx-VMS (0.18 mm) Det: MS SCAN
Process Host: CTX1619

First Level Reviewer: xuyvo Date: 09-Jan-2021 15:05:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	0.764	0.764	0.000	99	92905	20.0	22.4	
6 Chloromethane	50	0.879	0.879	0.000	98	129444	20.0	21.5	
7 Vinyl chloride	62	0.896	0.896	0.000	97	90686	20.0	21.7	
8 Butadiene	54	0.896	0.896	0.000	96	88781	20.0	22.9	
9 Bromomethane	94	1.044	1.044	0.000	98	31804	20.0	24.1	
10 Chloroethane	64	1.102	1.102	0.000	99	48149	20.0	22.0	
12 Pentane	72	1.168	1.168	0.000	96	14772	40.0	43.5	
11 Trichlorofluoromethane	101	1.168	1.168	0.000	73	90781	20.0	22.6	
13 Dichlorofluoromethane	67	1.200	1.200	0.000	99	107968	20.0	21.6	
14 2-Methyl-1,3-butadiene	67	1.316	1.316	0.000	96	88988	20.0	22.7	
15 Ethyl ether	59	1.316	1.316	0.000	95	51857	20.0	22.8	
16 Ethanol	45	1.406	1.406	0.000	100	21639	800.0	864.9	
17 1,1-Dichloroethene	96	1.414	1.414	0.000	98	56087	20.0	22.0	
19 Carbon disulfide	76	1.431	1.431	0.000	99	213163	20.0	22.5	
20 112TCTFE	101	1.439	1.439	0.000	93	47938	20.0	24.5	
22 Iodomethane	142	1.497	1.497	0.000	97	55793	20.0	17.2	
23 Cyclopentene	67	1.571	1.571	0.000	97	161764	20.0	23.0	
24 Acrolein	56	1.595	1.595	0.000	90	11450	40.0	45.9	
25 3-Chloro-1-propene	76	1.670	1.670	0.000	93	40218	20.0	21.4	
26 Isopropyl alcohol	45	1.694	1.694	0.000	98	22694	200.0	205.9	
27 Methylene Chloride	84	1.727	1.727	0.000	96	69280	20.0	20.9	
28 Acetone	58	1.760	1.760	0.000	88	19559	100.0	86.9	
29 trans-1,2-Dichloroethene	96	1.818	1.818	0.000	97	66577	20.0	20.8	
30 Methyl acetate	74	1.826	1.826	0.000	100	14497	40.0	39.2	
31 Hexane	86	1.859	1.859	0.000	94	9358	20.0	24.5	
32 Methyl tert-butyl ether	73	1.875	1.875	0.000	92	169190	20.0	21.2	a
* 33 TBA-d9 (IS)	65	1.900	1.900	0.000	99	158383	1000.0	1000.0	
34 2-Methyl-2-propanol	59	1.941	1.941	0.000	98	40122	200.0	195.6	
35 Acetonitrile	41	2.032	2.032	0.000	99	55221	200.0	176.4	a
36 Isopropyl ether	45	2.097	2.097	0.000	98	240592	20.0	22.3	
37 2-Chloro-1,3-butadiene	88	2.163	2.163	0.000	91	56479	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 1,1-Dichloroethane	63	2.172	2.172	0.000	99	130952	20.0	21.9	
39 Acrylonitrile	53	2.229	2.229	0.000	95	166483	200.0	220.6	
40 Tert-butyl ethyl ether	59	2.328	2.328	0.000	89	204369	20.0	21.6	
41 Vinyl acetate	86	2.344	2.344	0.000	100	22399	40.0	38.5	
42 cis-1,2-Dichloroethene	96	2.517	2.517	0.000	95	72584	20.0	20.7	
43 2,2-Dichloropropane	77	2.591	2.591	0.000	98	97476	20.0	22.2	
44 Cyclohexane	56	2.641	2.641	0.000	91	80118	20.0	23.0	
45 Chlorobromomethane	128	2.657	2.657	0.000	95	33687	20.0	21.2	
46 Chloroform	83	2.715	2.715	0.000	99	113132	20.0	20.9	
47 Carbon tetrachloride	117	2.797	2.797	0.000	98	70882	20.0	20.8	
49 Ethyl acetate	70	2.813	2.813	0.000	98	11770	40.0	37.4	
48 Methyl acrylate	55	2.813	2.813	0.000	96	43404	20.0	19.8	
50 Tetrahydrofuran	42	2.822	2.822	0.000	95	40258	40.0	41.1	
$ 51 Dibromofluoromethane (Surr)	113	2.838	2.838	0.000	97	133549	50.0	50.7	
52 1,1,1-Trichloroethane	97	2.846	2.846	0.000	98	89637	20.0	20.8	
* 53 2-Butanone-d5	46	2.904	2.904	0.000	99	230575	250.0	250.0	
54 1,1-Dichloropropene	75	2.937	2.937	0.000	95	88989	20.0	20.9	
55 2-Butanone (MEK)	72	2.937	2.937	0.000	100	29779	100.0	89.1	
56 Isooctane	57	3.019	3.019	0.000	98	140887	20.0	27.2	
57 n-Heptane	57	3.110	3.110	0.000	93	30141	20.0	26.8	
58 Benzene	78	3.126	3.126	0.000	96	277830	20.0	21.4	
59 Propionitrile	54	3.159	3.159	0.000	97	62130	200.0	202.7	
60 Methacrylonitrile	67	3.167	3.167	0.000	93	223194	200.0	221.5	
62 Tert-amyl methyl ether	73	3.233	3.233	0.000	98	176304	20.0	21.3	
$ 61 1,2-Dichloroethane-d4 (Surr)	65	3.233	3.233	0.000	96	146195	50.0	53.8	
63 1,2-Dichloroethane	62	3.291	3.291	0.000	97	83210	20.0	21.8	
64 Isobutyl alcohol	43	3.357	3.357	0.000	97	43096	500.0	464.4	
65 t-Amyl alcohol	59	3.422	3.422	0.000	99	31671	NC	NC	
* 66 Fluorobenzene	96	3.464	3.464	0.000	98	535828	50.0	50.0	
67 Isopropyl acetate	43	3.538	3.538	0.000	99	104122	20.0	22.3	
68 Methylcyclohexane	83	3.579	3.579	0.000	96	60459	20.0	23.1	
69 Trichloroethene	95	3.604	3.604	0.000	99	62669	20.0	19.9	
70 2-ethoxy-2-methyl butane	59	3.842	3.842	0.000	98	162488	NC	NC	
71 Dibromomethane	93	3.974	3.974	0.000	96	37127	20.0	20.4	
72 n-Butanol	56	3.999	3.999	0.000	91	22415	500.0	397.8	
73 1,2-Dichloropropane	63	4.064	4.064	0.000	92	74516	20.0	21.3	
75 Ethyl acrylate	55	4.147	4.147	0.000	78	58865	20.0	19.8	
74 Dichlorobromomethane	83	4.147	4.147	0.000	99	84098	20.0	20.7	
* 76 1,4-Dioxane-d8	96	4.328	4.328	0.000	94	19016	1000.0	1000.0	
77 Methyl methacrylate	100	4.336	4.336	0.000	91	25567	40.0	40.3	
78 1,4-Dioxane	88	4.352	4.352	0.000	98	11776	400.0	467.2	
79 n-Propyl acetate	43	4.501	4.501	0.000	99	70013	20.0	21.3	
80 2-Chloroethyl vinyl ether	63	4.756	4.756	0.000	97	28834	20.0	18.4	
81 cis-1,3-Dichloropropene	75	4.780	4.780	0.000	93	108218	20.0	21.6	
$ 82 Toluene-d8 (Surr)	98	4.970	4.970	0.000	99	493091	50.0	50.6	
83 Toluene	91	5.027	5.027	0.000	93	262213	20.0	20.9	
84 Epichlorohydrin	57	5.068	5.068	0.000	99	83854	400.0	411.6	
85 2-Nitropropane	41	5.299	5.299	0.000	98	21988	40.0	42.3	
86 Tetrachloroethene	166	5.447	5.447	0.000	97	49679	20.0	19.8	
87 4-Methyl-2-pentanone (MIBK)	43	5.496	5.496	0.000	96	249003	100.0	99.6	
88 trans-1,3-Dichloropropene	75	5.529	5.529	0.000	99	95107	20.0	21.6	
89 1,1,2-Trichloroethane	83	5.702	5.702	0.000	95	45658	20.0	21.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
90 Ethyl methacrylate	69	5.784	5.784	0.000	89	69104	20.0	21.1	
91 Chlorodibromomethane	129	5.891	5.891	0.000	99	56188	20.0	19.9	
92 1,3-Dichloropropane	76	6.015	6.015	0.000	94	94851	20.0	20.8	
93 Ethylene Dibromide	107	6.138	6.138	0.000	100	49519	20.0	20.7	
94 n-Butyl acetate	43	6.492	6.492	0.000	98	70799	20.0	19.1	
95 2-Hexanone	43	6.558	6.558	0.000	97	167590	100.0	99.9	
* 96 Chlorobenzene-d5	117	6.821	6.821	0.000	88	400454	50.0	50.0	
97 Chlorobenzene	112	6.846	6.846	0.000	95	157824	20.0	20.1	
98 Ethylbenzene	106	6.928	6.928	0.000	99	76431	20.0	21.1	
99 1,1,1,2-Tetrachloroethane	133	6.953	6.953	0.000	94	51165	20.0	19.1	
100 m-Xylene & p-Xylene	106	7.142	7.142	0.000	97	87562	20.0	19.8	
101 o-Xylene	106	7.727	7.727	0.000	93	88388	20.0	20.4	
102 Bromoform	173	7.792	7.792	0.000	95	34841	20.0	20.4	
103 Styrene	104	7.817	7.817	0.000	95	153086	20.0	20.7	
104 n-Butyl acrylate	73	8.146	8.146	0.000	99	34985	20.0	17.8	
105 Isopropylbenzene	105	8.204	8.204	0.000	96	190420	20.0	21.0	
106 Amyl acetate (mixed isomers)	43	8.558	8.558	0.000	91	87164	20.0	21.8	
$ 107 4-Bromofluorobenzene	174	8.582	8.582	0.000	90	134661	50.0	47.8	
108 Bromobenzene	156	8.689	8.689	0.000	99	61036	20.0	19.2	
109 N-Propylbenzene	91	8.838	8.838	0.000	99	217457	20.0	21.3	
110 1,1,2,2-Tetrachloroethane	83	8.994	8.994	0.000	99	62823	20.0	21.5	
111 2-Chlorotoluene	91	9.010	9.010	0.000	97	168828	20.0	21.4	
112 4-Ethyltoluene	105	9.027	9.027	0.000	98	183825	20.0	21.6	
113 1,2,3-Trichloropropane	110	9.126	9.126	0.000	98	16689	20.0	20.5	
114 1,3,5-Trimethylbenzene	105	9.183	9.183	0.000	94	148384	20.0	21.3	
115 trans-1,4-Dichloro-2-butene	75	9.266	9.266	0.000	88	26962	20.0	20.8	
116 4-Chlorotoluene	91	9.282	9.282	0.000	98	162442	20.0	21.9	
117 tert-Butylbenzene	119	9.644	9.644	0.000	96	119403	20.0	21.1	
119 1,2,4-Trimethylbenzene	105	9.776	9.776	0.000	98	159796	20.0	21.8	
118 Butyl Methacrylate	87	9.784	9.784	0.000	94	62841	20.0	17.5	
120 sec-Butylbenzene	105	9.932	9.932	0.000	99	170725	20.0	21.7	
121 1,3-Dichlorobenzene	146	10.195	10.195	0.000	95	99830	20.0	20.7	
122 4-Isopropyltoluene	119	10.212	10.212	0.000	99	149766	20.0	21.9	
* 123 1,4-Dichlorobenzene-d4	152	10.335	10.335	0.000	96	167760	50.0	50.0	
124 1,4-Dichlorobenzene	146	10.352	10.352	0.000	96	104872	20.0	20.0	
125 1,2,3-Trimethylbenzene	105	10.459	10.459	0.000	98	169981	20.0	21.5	
126 2,3-Dihydroindene	117	10.632	10.632	0.000	94	175787	20.0	20.6	
128 Benzyl chloride	126	10.813	10.813	0.000	99	22842	20.0	21.2	
127 p-Diethylbenzene	119	10.829	10.829	0.000	94	75124	20.0	21.5	
129 n-Butylbenzene	92	10.911	10.911	0.000	98	76806	20.0	23.4	
130 1,2-Dichlorobenzene	146	11.027	11.027	0.000	97	96782	20.0	19.5	
131 1,2,4,5-Tetramethylbenzene	119	11.874	11.874	0.000	98	137818	20.0	21.8	
132 1,2-Dibromo-3-Chloropropane	157	11.990	11.990	0.000	95	12434	20.0	21.3	
133 1,3,5-Trichlorobenzene	180	12.022	12.022	0.000	98	65555	20.0	21.4	
134 1,2,4-Trichlorobenzene	180	12.541	12.541	0.000	95	59274	20.0	21.9	
135 Hexachlorobutadiene	225	12.549	12.549	0.000	95	28963	20.0	22.0	
136 Naphthalene	128	12.755	12.755	0.000	99	137260	20.0	23.6	
137 1,2,3-Trichlorobenzene	180	12.878	12.878	0.000	95	52830	20.0	22.6	
S 138 1,2-Dichloroethene, Total	100				0		40.0	41.5	
S 139 1,3-Dichloropropene, Total	100				0		40.0	43.2	
S 140 Xylenes, Total	100				0		40.0	40.2	
S 141 Total BTEX	1				0		100.0	103.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00131	Amount Added:	20.00	Units: uL	
ACROLEIN W_00117	Amount Added:	4.00	Units: uL	
GASES Li_00402	Amount Added:	20.00	Units: uL	
8260ISNEW_00140	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00214	Amount Added:	1.00	Units: uL	Run Reagent

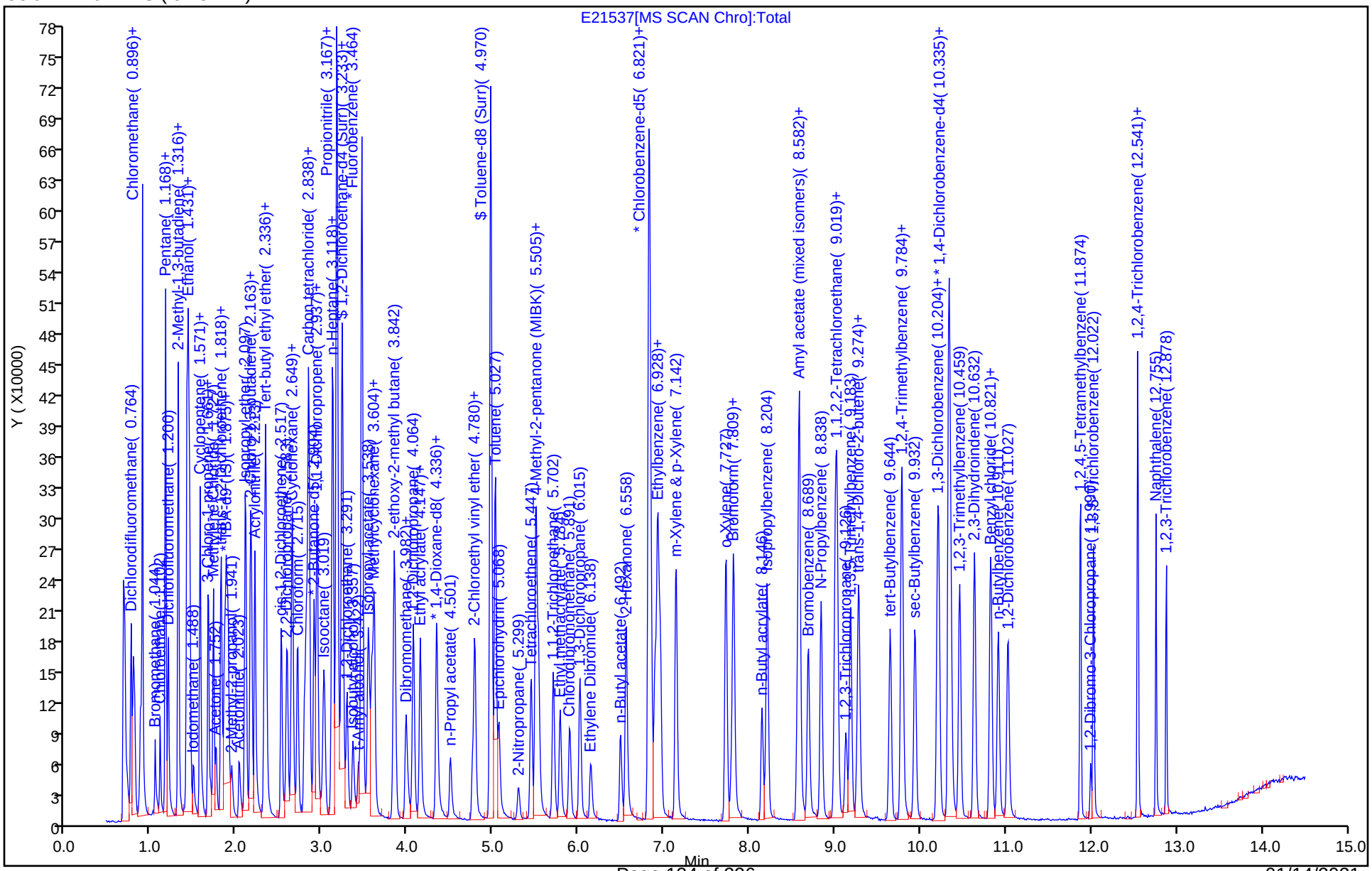
Report Date: 09-Jan-2021 15:05:30 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS5\20210109-122633.b\E21537.D

Injection Date:	09-Jan-2021 10:10:30	Instrument ID:	CVOAMS5	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W_5	Limit Group:	VOA - 8260D Water and Solid		

Column: Rtx-VMS (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: WW-7S-010721 MS Lab Sample ID: 460-226054-1 MS

Matrix: Water Lab File ID: E21554.D

Analysis Method: 8260D Date Collected: 01/07/2021 14:55

Sample wt/vol: 5(mL) Date Analyzed: 01/09/2021 17:08

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: Rtx-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751761 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	209		10	2.6
156-59-2	cis-1,2-Dichloroethene	213		10	2.2
79-01-6	Trichloroethene (TCE)	200		10	3.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene	103		76-120
1868-53-7	Dibromofluoromethane (Surr)	104		77-124

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: WW-7S-010721 MSD Lab Sample ID: 460-226054-1 MSD

Matrix: Water Lab File ID: E21555.D

Analysis Method: 8260D Date Collected: 01/07/2021 14:55

Sample wt/vol: 5(mL) Date Analyzed: 01/09/2021 17:33

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: Rtx-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751761 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	194		10	2.6
156-59-2	cis-1,2-Dichloroethene	195		10	2.2
79-01-6	Trichloroethene (TCE)	188		10	3.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene	101		76-120
1868-53-7	Dibromofluoromethane (Surr)	108		77-124

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Instrument ID: CVOAMS5 Start Date: 01/07/2021 20:31

Analysis Batch Number: 751537 End Date: 01/08/2021 02:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-751537/1		01/07/2021 20:31	1	E21518.D	Rtx-VMS 0.18(mm)
STD7 460-751537/3 IC		01/07/2021 21:20	1	E21520.D	Rtx-VMS 0.18(mm)
STD1 460-751537/4 IC		01/07/2021 21:45	1	E21521.D	Rtx-VMS 0.18(mm)
STD5 460-751537/5 IC		01/07/2021 22:09	1	E21522.D	Rtx-VMS 0.18(mm)
STD20 460-751537/6 ICIS		01/07/2021 22:34	1	E21523.D	Rtx-VMS 0.18(mm)
STD50 460-751537/7 IC		01/07/2021 22:59	1	E21524.D	Rtx-VMS 0.18(mm)
STD200 460-751537/8 IC		01/07/2021 23:23	1	E21525.D	Rtx-VMS 0.18(mm)
STD500 460-751537/9 IC		01/07/2021 23:48	1	E21526.D	Rtx-VMS 0.18(mm)
ICV 460-751537/15		01/08/2021 02:15	1	E21532.D	Rtx-VMS 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Instrument ID: CVOAMS5 Start Date: 01/09/2021 08:53

Analysis Batch Number: 751761 End Date: 01/09/2021 20:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-751761/1		01/09/2021 08:53	1	E21534.D	Rtx-VMS 0.18(mm)
CCVIS 460-751761/3		01/09/2021 09:46	1	E21536.D	Rtx-VMS 0.18(mm)
LCS 460-751761/4		01/09/2021 10:10	1	E21537.D	Rtx-VMS 0.18(mm)
ZZZZZ		01/09/2021 10:35	1		Rtx-VMS 0.18(mm)
MB 460-751761/9		01/09/2021 12:13	1	E21542.D	Rtx-VMS 0.18(mm)
460-226054-4	Trip Blank	01/09/2021 12:38	1	E21543.D	Rtx-VMS 0.18(mm)
460-226054-3	FB-1_010721	01/09/2021 13:02	1	E21544.D	Rtx-VMS 0.18(mm)
ZZZZZ		01/09/2021 13:27	1		Rtx-VMS 0.18(mm)
ZZZZZ		01/09/2021 13:52	1		Rtx-VMS 0.18(mm)
460-226054-1	WW-7S-010721	01/09/2021 14:16	1	E21547.D	Rtx-VMS 0.18(mm)
460-226054-2	DUP-1_010721	01/09/2021 14:41	1	E21548.D	Rtx-VMS 0.18(mm)
ZZZZZ		01/09/2021 15:05	1		Rtx-VMS 0.18(mm)
ZZZZZ		01/09/2021 15:30	1		Rtx-VMS 0.18(mm)
ZZZZZ		01/09/2021 15:54	1		Rtx-VMS 0.18(mm)
ZZZZZ		01/09/2021 16:19	1		Rtx-VMS 0.18(mm)
ZZZZZ		01/09/2021 16:44	1		Rtx-VMS 0.18(mm)
460-226054-1 MS	WW-7S-010721 MS	01/09/2021 17:08	10	E21554.D	Rtx-VMS 0.18(mm)
460-226054-1 MSD	WW-7S-010721 MSD	01/09/2021 17:33	10	E21555.D	Rtx-VMS 0.18(mm)
ZZZZZ		01/09/2021 18:47	1		Rtx-VMS 0.18(mm)
ZZZZZ		01/09/2021 19:11	1		Rtx-VMS 0.18(mm)
ZZZZZ		01/09/2021 19:36	1		Rtx-VMS 0.18(mm)
ZZZZZ		01/09/2021 20:00	1		Rtx-VMS 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Batch Number: 751537 Batch Start Date: 01/07/21 20:31 Batch Analyst: Starzec, Margaret

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	14DIOXINTER 00124	524freon 00031	8260 SP 00134	8260ISNEW 00140
BFB 460-751537/1		8260D		5 mL	5 mL				
STD7 460-751537/3 IC		8260D		5 mL	5 mL				1 uL
STD1 460-751537/4 IC		8260D		5 mL	5 mL	30 uL	10 uL		1 uL
STD5 460-751537/5 IC		8260D		5 mL	5 mL		10 uL		1 uL
STD20 460-751537/6 ICIS		8260D		5 mL	5 mL		20 uL		1 uL
STD50 460-751537/7 IC		8260D		5 mL	5 mL		50 uL		1 uL
STD200 460-751537/8 IC		8260D		5 mL	5 mL				1 uL
STD500 460-751537/9 IC		8260D		5 mL	5 mL				1 uL
ICV 460-751537/15		8260D		5 mL	5 mL			20 uL	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260MIX1COMB 00130	8260SURR250 00214	8FreonHi 00027	8FreonsSS 00027	ACROLEIN SP 00120	ACROLEIN W 00117
BFB 460-751537/1		8260D							
STD7 460-751537/3 IC		8260D			1 uL				
STD1 460-751537/4 IC		8260D		10 uL	1 uL				4 uL
STD5 460-751537/5 IC		8260D		10 uL	1 uL				4 uL
STD20 460-751537/6 ICIS		8260D		20 uL	1 uL				4 uL
STD50 460-751537/7 IC		8260D		50 uL	1 uL				10 uL
STD200 460-751537/8 IC		8260D			1 uL	20 uL			20 uL
STD500 460-751537/9 IC		8260D			1 uL	50 uL			40 uL
ICV 460-751537/15		8260D			1 uL		20 uL	4 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Batch Number: 751537 Batch Start Date: 01/07/21 20:31 Batch Analyst: Starzec, Margaret

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACRY/EPIH MIX 00081	BFB 00027	Ethanol mix 00047	GAS C SP 00391	GAS Hi 00379	GASES Li 00402
BFB 460-751537/1		8260D			1 uL				
STD7 460-751537/3 IC		8260D		20 uL					2.5 uL
STD1 460-751537/4 IC		8260D							10 uL
STD5 460-751537/5 IC		8260D							10 uL
STD20 460-751537/6 ICIS		8260D							20 uL
STD50 460-751537/7 IC		8260D							50 uL
STD200 460-751537/8 IC		8260D				20 uL		20 uL	
STD500 460-751537/9 IC		8260D				50 uL		50 uL	
ICV 460-751537/15		8260D					20 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MIX 2 Hi 00106	MIX I Hi 00133				
BFB 460-751537/1		8260D							
STD7 460-751537/3 IC		8260D							
STD1 460-751537/4 IC		8260D							
STD5 460-751537/5 IC		8260D							
STD20 460-751537/6 ICIS		8260D							
STD50 460-751537/7 IC		8260D							
STD200 460-751537/8 IC		8260D		20 uL	20 uL				
STD500 460-751537/9 IC		8260D		50 uL	50 uL				
ICV 460-751537/15		8260D							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Batch Number: 751537 Batch Start Date: 01/07/21 20:31 Batch Analyst: Starzec, Margaret

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Batch Number: 751761 Batch Start Date: 01/09/21 08:53 Batch Analyst: Starzec, Margaret

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260ISNEW 00140	8260MIX1COMB 00131	8260SURR250 00214
BFB 460-751761/1		8260D		5 mL	5 mL				
CCVIS 460-751761/3		8260D		5 mL	5 mL		1 uL	20 uL	1 uL
LCS 460-751761/4		8260D		5 mL	5 mL		1 uL	20 uL	1 uL
MB 460-751761/9		8260D		5 mL	5 mL		1 uL		1 uL
460-226054-A-4	Trip Blank	8260D	T	5 mL	5 mL	<2 PH Units	1 uL		1 uL
460-226054-A-3	FB-1_010721	8260D	T	5 mL	5 mL	<2 PH Units	1 uL		1 uL
460-226054-A-1	WW-7S-010721	8260D	T	5 mL	5 mL	<2 PH Units	1 uL		1 uL
460-226054-A-2	DUP-1_010721	8260D	T	5 mL	5 mL	<2 PH Units	1 uL		1 uL
460-226054-A-1 MS	WW-7S-010721	8260D	T	5 mL	5 mL	<2 PH Units	1 uL	20 uL	1 uL
460-226054-A-1 MSD	WW-7S-010721	8260D	T	5 mL	5 mL	<2 PH Units	1 uL	20 uL	1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ACROLEIN W 00117	BFB 00027	GASES Li 00402			
BFB 460-751761/1		8260D			1 uL				
CCVIS 460-751761/3		8260D		4 uL		20 uL			
LCS 460-751761/4		8260D		4 uL		20 uL			
MB 460-751761/9		8260D							
460-226054-A-4	Trip Blank	8260D	T						
460-226054-A-3	FB-1_010721	8260D	T						
460-226054-A-1	WW-7S-010721	8260D	T						
460-226054-A-2	DUP-1_010721	8260D	T						
460-226054-A-1 MS	WW-7S-010721	8260D	T	4 uL		20 uL			
460-226054-A-1 MSD	WW-7S-010721	8260D	T	4 uL		20 uL			

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Batch Number: 751761 Batch Start Date: 01/09/21 08:53 Batch Analyst: Starzec, Margaret

Batch Method: 8260D Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D_SIM

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	BFB #
WW-7S-010721	460-226054-1	88
DUP-1_010721	460-226054-2	85
FB-1_010721	460-226054-3	88
Trip Blank	460-226054-4	89
	MB 460-751577/8	93
	LCS 460-751577/3	102
	LCSD 460-751577/5	86

	QC LIMITS
BFB = 4-Bromofluorobenzene	52-137

Column to be used to flag recovery values

FORM II 8260D SIM

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Matrix: Water Level: Low Lab File ID: R69130.d

Lab ID: LCS 460-751577/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	5.00	5.24	105	64-138	

Column to be used to flag recovery and RPD values

FORM III 8260D SIM

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Matrix: Water Level: Low Lab File ID: R69132.d

Lab ID: LCSD 460-751577/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	5.00	5.15	103	2	30	64-138	

Column to be used to flag recovery and RPD values

FORM III 8260D SIM

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab File ID: R69135.d Lab Sample ID: MB 460-751577/8

Matrix: Water Heated Purge:(Y/N) Y

Instrument ID: CVOAMS10 Date Analyzed: 01/08/2021 10:38

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-751577/3	R69130.d	01/08/2021 08:47
	LCSD 460-751577/5	R69132.d	01/08/2021 09:32
Trip Blank	460-226054-4	R69137.d	01/08/2021 13:55
FB-1_010721	460-226054-3	R69138.d	01/08/2021 14:17
WW-7S-010721	460-226054-1	R69139.d	01/08/2021 14:39
DUP-1_010721	460-226054-2	R69140.d	01/08/2021 15:01

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab File ID: R68859.d BFB Injection Date: 12/30/2020

Instrument ID: CVOAMS10 BFB Injection Time: 11:12

Analysis Batch No.: 750290

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	130.5
96	5 - 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0
174	50 - 200% of m/z 95	76.6
175	5 - 9% of m/z 174	7.5
176	95 -105% of m/z 174	96.7
177	5 - 10% of m/z 176	6.8

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD04 460-750290/2	R68861.d	12/30/2020	11:51
	STD1 460-750290/3	R68862.d	12/30/2020	12:13
	STD5 460-750290/4	R68863.d	12/30/2020	12:35
	STD10 460-750290/5	R68864.d	12/30/2020	12:56
	STD20 460-750290/6	R68865.d	12/30/2020	13:19
	STD30 460-750290/7	R68866.d	12/30/2020	13:41
	STD40 460-750290/8	R68867.d	12/30/2020	14:03
	STD50 460-750290/9	R68868.d	12/30/2020	14:25
	ICV 460-750290/12	R68871.d	12/30/2020	15:31

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Sample No.: STD5 460-750290/4 Date Analyzed: 12/30/2020 12:35

Instrument ID: CVOAMS10 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): R68863.d Heated Purge: (Y/N) Y

Calibration ID: 83304

		FB		DXE		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		13279	4.18	1416	4.92	4052	8.12
UPPER LIMIT		26558	4.68	2832	5.42	8104	8.62
LOWER LIMIT		6640	3.68	708	4.42	2026	7.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-750290/12		15038	4.18	1403	4.94	4480	8.12

FB = Fluorobenzene
DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D SIM

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Sample No.: CCVIS 460-751577/2 Date Analyzed: 01/08/2021 08:26

Instrument ID: CVOAMS10 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): R69129.d Heated Purge: (Y/N) Y

Calibration ID: 83304

		FB		DXE		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		14994	4.18	930	4.94	3683	8.12
UPPER LIMIT		29988	4.68	1860	5.44	7366	8.62
LOWER LIMIT		7497	3.68	465	4.44	1842	7.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-751577/3		8145	4.18	687	4.94	2825	8.12
LCSD 460-751577/5		13713	4.18	886	4.94	4875	8.12
MB 460-751577/8		10713	4.21	837	4.94	4158	8.12
460-226054-4	Trip Blank	12397	4.18	982	4.92	3729	8.12
460-226054-3	FB-1_010721	11974	4.18	909	4.94	3865	8.12
460-226054-1	WW-7S-010721	14312	4.18	1102	4.94	4521	8.12
460-226054-2	DUP-1_010721	13053	4.18	974	4.94	4641	8.12

FB = Fluorobenzene
DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260D SIM

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: WW-7S-010721 Lab Sample ID: 460-226054-1

Matrix: Water Lab File ID: R69139.d

Analysis Method: 8260D SIM Date Collected: 01/07/2021 14:55

Sample wt/vol: 10(mL) Date Analyzed: 01/08/2021 14:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751577 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.33	U	0.40	0.33

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	88		52-137

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69139.d
Lims ID: 460-226054-D-1
Client ID: WW-7S-010721
Sample Type: Client
Inject. Date: 08-Jan-2021 14:39:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-226054-D-1
Misc. Info.: 460-0122597-012
Operator ID: Instrument ID: CVOAMS10

Method: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 09-Jan-2021 10:18:16 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: starzecm Date: 09-Jan-2021 10:18:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	99	14312	0.5000	
* 2 1,4-Dioxane-d8	64	4.941	4.941	0.000	98	1102	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	88	4521	0.5000	
$ 4 4-Bromofluorobenzene	174	9.509	9.509	0.000	90	6458	0.4412	

Reagents:

SimissurNEW_00043 Amount Added: 2.00 Units: uL Run Reagent

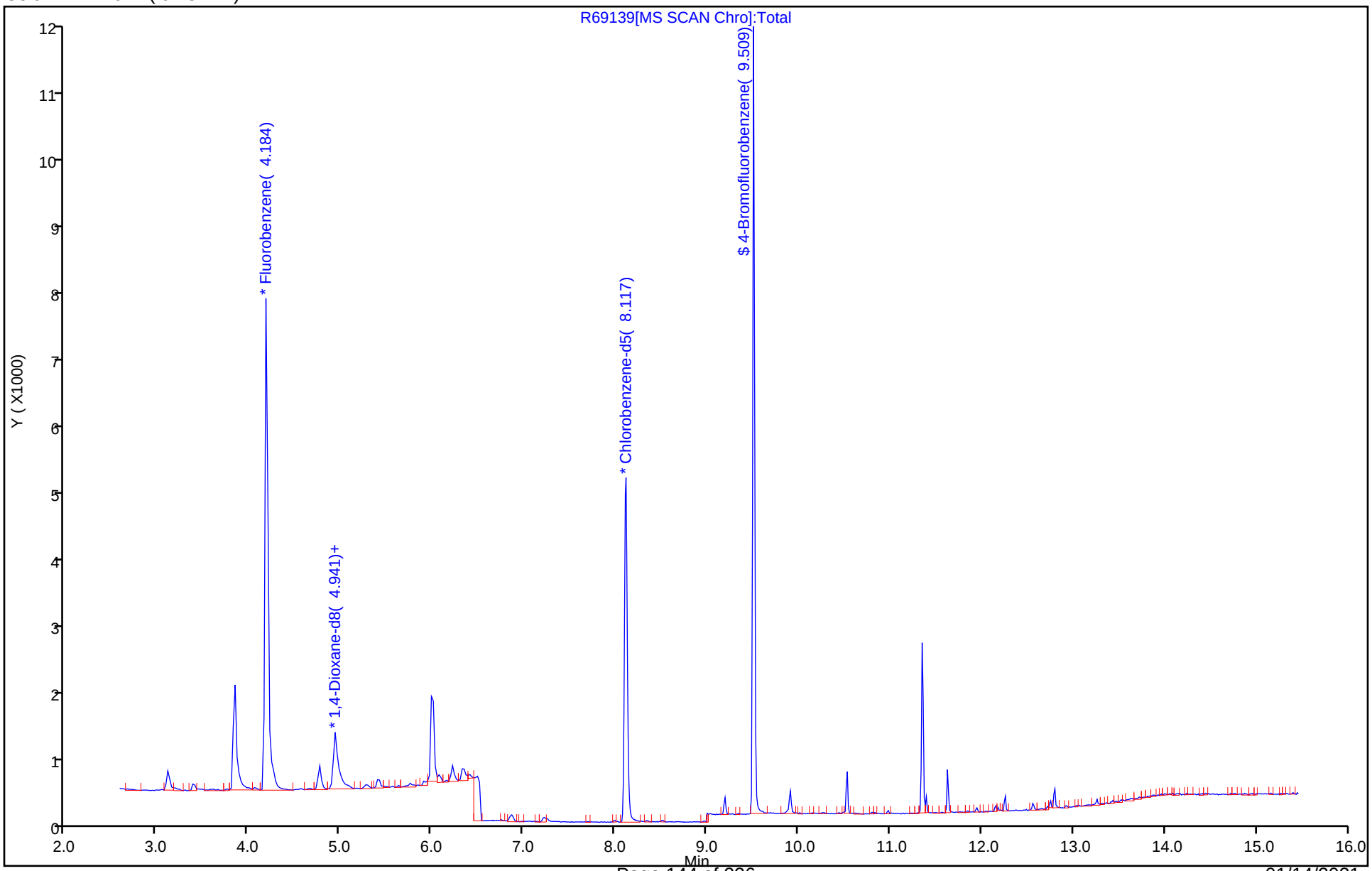
Report Date: 09-Jan-2021 10:18:21 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69139.d

Injection Date:	08-Jan-2021 14:39:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	460-226054-D-1	Lab Sample ID:	460-226054-1	Worklist Smp#:	12
Client ID:	WW-7S-010721				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: DUP-1_010721 Lab Sample ID: 460-226054-2

Matrix: Water Lab File ID: R69140.d

Analysis Method: 8260D SIM Date Collected: 01/07/2021 14:55

Sample wt/vol: 10(mL) Date Analyzed: 01/08/2021 15:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751577 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.33	U	0.40	0.33

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	85		52-137

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69140.d
Lims ID: 460-226054-D-2
Client ID: DUP-1_010721
Sample Type: Client
Inject. Date: 08-Jan-2021 15:01:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-226054-D-2
Misc. Info.: 460-0122597-013
Operator ID: Instrument ID: CVOAMS10

Method: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 09-Jan-2021 10:18:29 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: starzecm Date: 09-Jan-2021 10:18:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	99	13053	0.5000	
* 2 1,4-Dioxane-d8	64	4.941	4.941	0.000	98	974	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	88	4641	0.5000	
$ 4 4-Bromofluorobenzene	174	9.510	9.509	0.001	91	6349	0.4225	

Reagents:

SimissurNEW_00043 Amount Added: 2.00 Units: uL Run Reagent

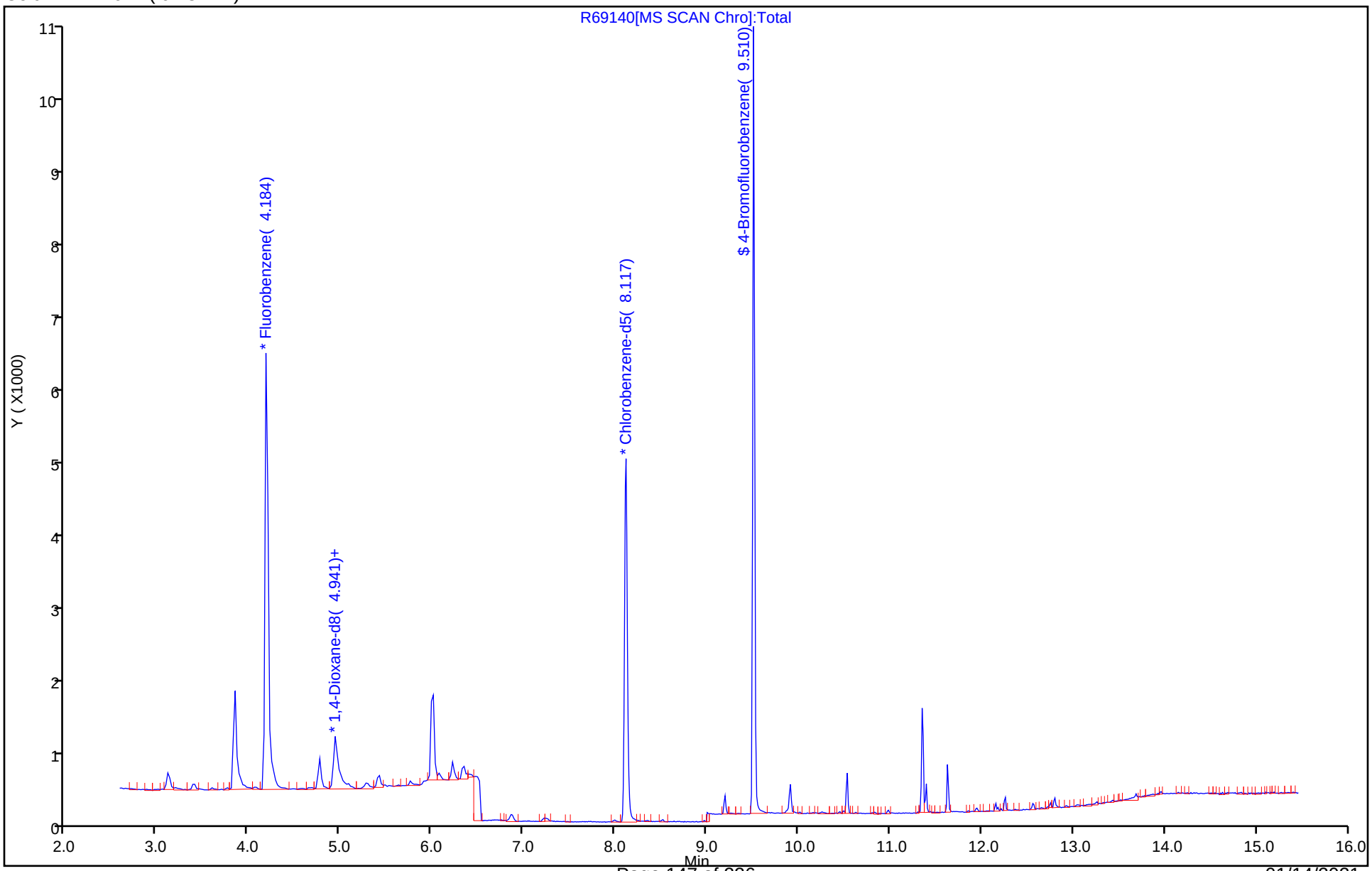
Report Date: 09-Jan-2021 10:18:41 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69140.d

Injection Date:	08-Jan-2021 15:01:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	460-226054-D-2	Lab Sample ID:	460-226054-2	Worklist Smp#:	13
Client ID:	DUP-1_010721				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: FB-1_010721 Lab Sample ID: 460-226054-3

Matrix: Water Lab File ID: R69138.d

Analysis Method: 8260D SIM Date Collected: 01/07/2021 14:40

Sample wt/vol: 10(mL) Date Analyzed: 01/08/2021 14:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751577 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.33	U	0.40	0.33

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	88		52-137

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69138.d
Lims ID: 460-226054-D-3
Client ID: FB-1_010721
Sample Type: Client
Inject. Date: 08-Jan-2021 14:17:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-226054-D-3
Misc. Info.: 460-0122597-011
Operator ID: Instrument ID: CVOAMS10

Method: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 09-Jan-2021 10:18:03 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: starzecm Date: 09-Jan-2021 10:18:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	100	11974	0.5000	
* 2 1,4-Dioxane-d8	64	4.941	4.941	0.000	95	909	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	86	3865	0.5000	
$ 4 4-Bromofluorobenzene	174	9.510	9.509	0.001	88	5509	0.4402	

Reagents:

SimissurNEW_00043 Amount Added: 2.00 Units: uL Run Reagent

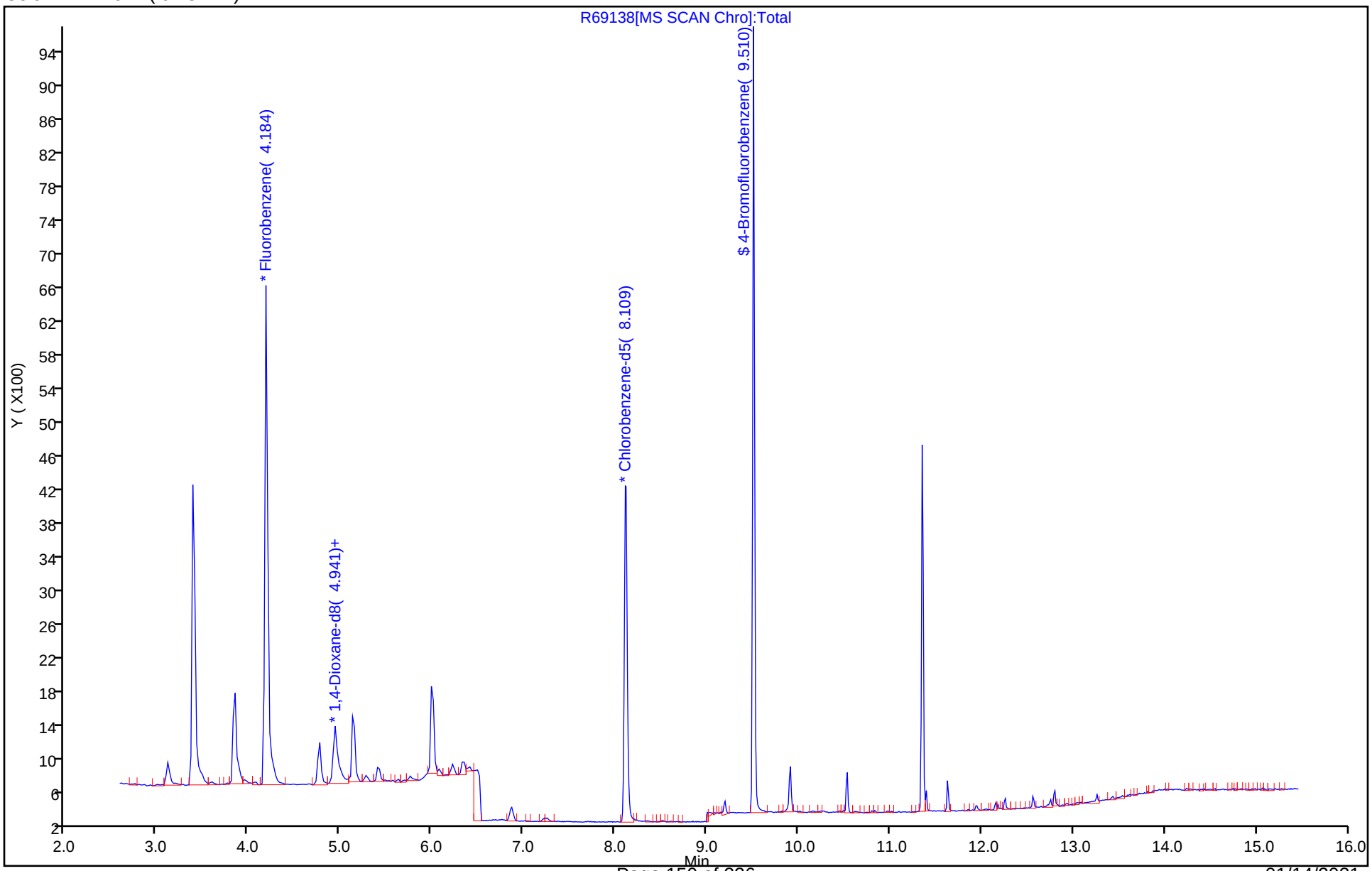
Report Date: 09-Jan-2021 10:18:08 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69138.d

Injection Date:	08-Jan-2021 14:17:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	460-226054-D-3	Lab Sample ID:	460-226054-3	Worklist Smp#:	11
Client ID:	FB-1_010721				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: Trip Blank Lab Sample ID: 460-226054-4

Matrix: Water Lab File ID: R69137.d

Analysis Method: 8260D SIM Date Collected: 01/07/2021 14:55

Sample wt/vol: 10(mL) Date Analyzed: 01/08/2021 13:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751577 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.33	U	0.40	0.33

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	89		52-137

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69137.d
Lims ID: 460-226054-C-4
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 08-Jan-2021 13:55:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-226054-C-4
Misc. Info.: 460-0122597-010
Operator ID: Instrument ID: CVOAMS10

Method: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 09-Jan-2021 10:17:49 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1601

First Level Reviewer: starzecm Date: 09-Jan-2021 10:17:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	100	12397	0.5000	
* 2 1,4-Dioxane-d8	64	4.920	4.941	-0.021	56	982	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	85	3729	0.5000	
$ 4 4-Bromofluorobenzene	174	9.509	9.509	0.000	88	5360	0.4439	

Reagents:

SimissurNEW_00043 Amount Added: 2.00 Units: uL Run Reagent

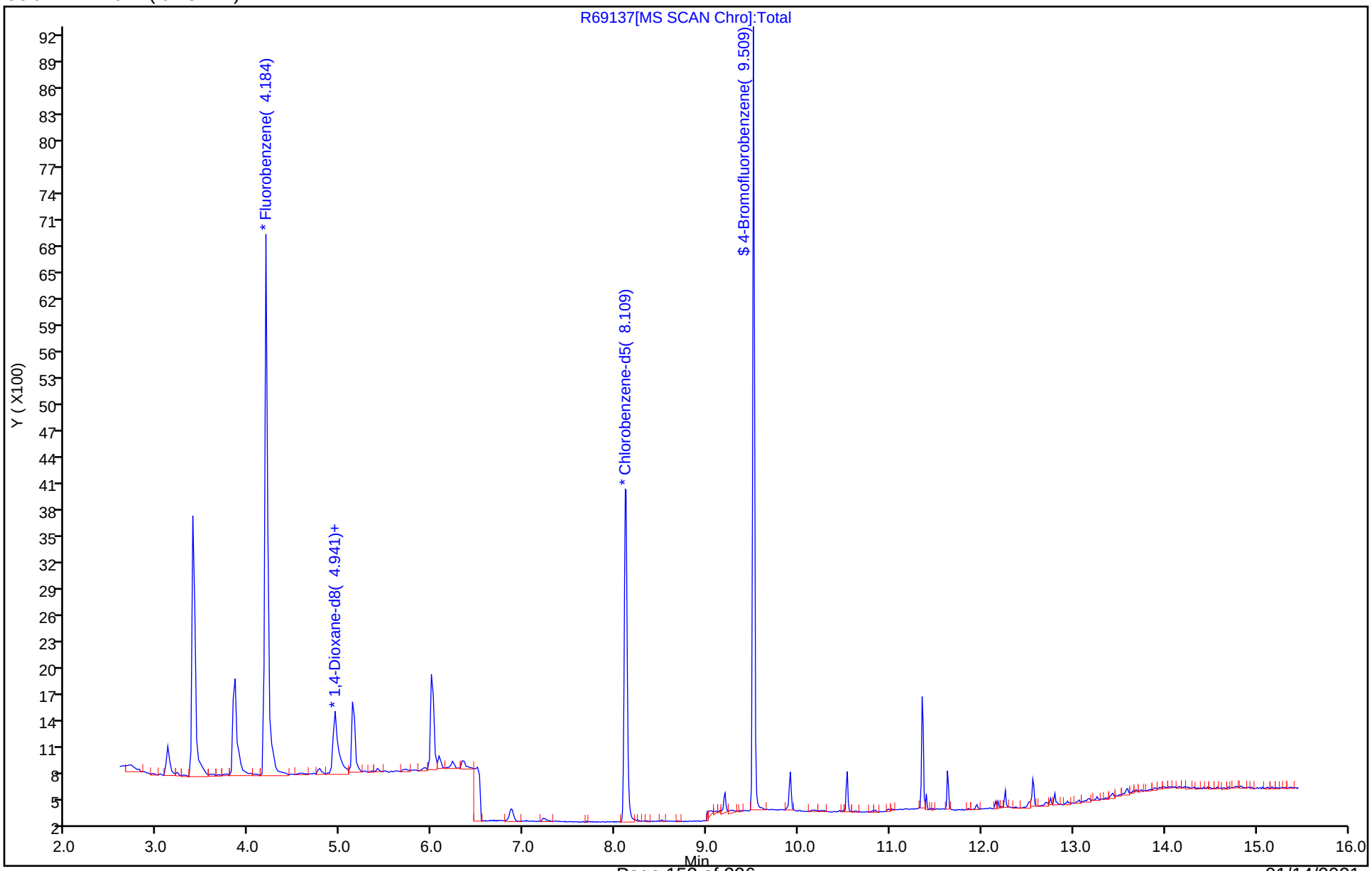
Report Date: 09-Jan-2021 10:17:54 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69137.d

Injection Date:	08-Jan-2021 13:55:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	460-226054-C-4	Lab Sample ID:	460-226054-4	Worklist Smp#:	10
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 750290

SDG No.:

Instrument ID: CVOAMS10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/30/2020 11:51 Calibration End Date: 12/30/2020 14:25 Calibration ID: 83304

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD04 460-750290/2	R68861.d
Level 2	STD1 460-750290/3	R68862.d
Level 3	STD5 460-750290/4	R68863.d
Level 4	STD10 460-750290/5	R68864.d
Level 5	STD20 460-750290/6	R68865.d
Level 6	STD30 460-750290/7	R68866.d
Level 7	STD40 460-750290/8	R68867.d
Level 8	STD50 460-750290/9	R68868.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Chloroform	+++++ 0.5670	0.4828 0.7881	0.5814 0.5242	0.7979	0.7598	Ave		0.6430			0.2000	20.9	*	20.0			
Benzene	+++++ 1.2006	1.2706 1.4024	1.3066 1.2753	1.6274	1.4202	Ave		1.3576			0.5000	10.4		20.0			
1,4-Dioxane	2.4193 1.7997	2.3870 1.7106	1.7825 1.7589	1.8653	1.8280	Ave		1.9439				14.8		20.0			
Ethylene Dibromide	1.0114 0.9917	1.0044 0.9768	0.8662 1.0146	1.0178	0.8851	Ave		0.9710			0.1000	6.2		20.0			
1,2,3-Trichloropropane	1.1949 1.1594	1.1029 1.3568	1.4388 1.4722	1.5398	1.2944	Ave		1.3199				12.0		20.0			
1,2-Dibromo-3-Chloropropane	0.3515 0.3675	0.3019 0.4150	0.4862 0.4861	0.5272	0.4062	Ave		0.4177			0.0500	18.5		20.0			
4-Bromofluorobenzene	1.5228 1.4685	1.3679 1.6447	1.8258 1.6873	1.7486	1.6859	Ave		1.6189				9.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1 Analy Batch No.: 750290

SDG No.:

Instrument ID: CVOAMS10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 12/30/2020 11:51 Calibration End Date: 12/30/2020 14:25 Calibration ID: 83304

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD04 460-750290/2	R68861.d
Level 2	STD1 460-750290/3	R68862.d
Level 3	STD5 460-750290/4	R68863.d
Level 4	STD10 460-750290/5	R68864.d
Level 5	STD20 460-750290/6	R68865.d
Level 6	STD30 460-750290/7	R68866.d
Level 7	STD40 460-750290/8	R68867.d
Level 8	STD50 460-750290/9	R68868.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	FB	Ave	+++++ 7836	662 15769	772 33259	1638	3263	+++++ 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
Benzene	FB	Ave	+++++ 16593	1742 28062	1735 80916	3341	6099	+++++ 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,4-Dioxane	DXE	Ave	156 6981	338 9778	1262 13728	2313	4497	0.400 30.0	1.00 40.0	5.00 50.0	10.0	20.0
Ethylene Dibromide	CBNZd5	Ave	259 5163	489 10227	351 17041	778	1704	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2,3-Trichloropropane	CBNZd5	Ave	306 6036	537 14206	583 24727	1177	2492	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2-Dibromo-3-Chloropropane	CBNZd5	Ave	90 1913	147 4345	197 8164	403	782	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
4-Bromofluorobenzene	CBNZd5	Ave	9749 7645	8325 8610	7398 7085	6683	8114	0.500 0.500	0.500 0.500	0.500 0.500	0.500	0.500

Curve Type Legend:
Ave = Average ISTD

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68861.d
Lims ID: STD04
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Dec-2020 11:51:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD04
Misc. Info.: 460-0122338-002
Operator ID: Instrument ID: CVOAMS10
Sublist: chrom-8260SIM10*sub13

Method: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 30-Dec-2020 18:12:26 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: kluseys Date: 30-Dec-2020 14:17:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	97	19918	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.941	4.920	0.021	97	1612	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	92	6402	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.509	9.509	0.000	97	9749	0.5000	0.4703	
7 Chloroform	83	3.407	3.386	0.021	95	371	0.0200	0.0145	
8 Benzene	78	3.890	3.890	0.000	100	1227	0.0200	0.0227	
9 1,4-Dioxane	88	5.004	5.004	0.000	96	156	0.4000	0.4978	M
10 Ethylene Dibromide	107	7.331	7.323	0.008	92	259	0.0200	0.0208	
11 1,2,3-Trichloropropane	75	9.705	9.705	0.000	97	306	0.0200	0.0181	
12 1,2-Dibromo-3-Chloropropane	157	11.431	11.431	0.000	55	90	0.0200	0.0168	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

SIMDIOX50_00056	Amount Added:	4.00	Units: uL	
VMB/C/MIX1SIM_00034	Amount Added:	1.00	Units: uL	
SimissurNEW_00042	Amount Added:	2.00	Units: uL	Run Reagent

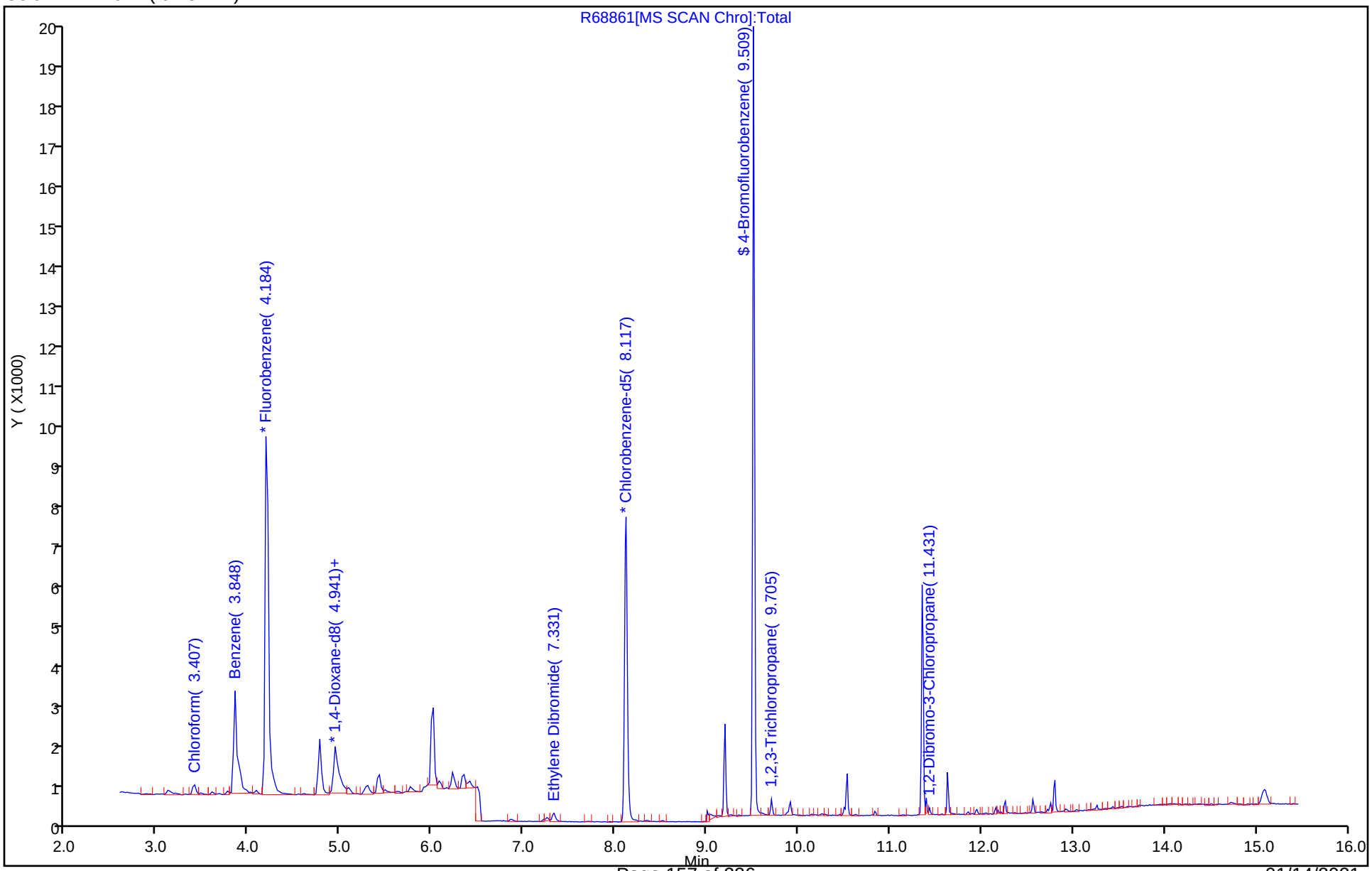
Report Date: 30-Dec-2020 18:12:27 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68861.d

Injection Date:	30-Dec-2020 11:51:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	STD04			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68862.d
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Dec-2020 12:13:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0122338-003
Operator ID: Instrument ID: CVOAMS10
Sublist: chrom-8260SIM10*sub13

Method: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 30-Dec-2020 18:12:28 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: starzecm Date: 30-Dec-2020 14:04:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.205	4.184	0.021	98	17138	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.941	4.920	0.021	95	1416	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	93	6086	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.521	9.509	0.012	61	8325	0.5000	0.4225	
7 Chloroform	83	3.407	3.386	0.021	96	662	0.0400	0.0300	
8 Benzene	78	3.890	3.890	0.000	100	1742	0.0400	0.0374	
9 1,4-Dioxane	88	5.004	5.004	0.000	95	338	1.00	1.23	
10 Ethylene Dibromide	107	7.331	7.323	0.008	91	489	0.0400	0.0414	
11 1,2,3-Trichloropropane	75	9.705	9.705	0.000	96	537	0.0400	0.0334	
12 1,2-Dibromo-3-Chloropropane	157	11.431	11.431	0.000	57	147	0.0400	0.0289	

QC Flag Legend
Processing Flags

Reagents:
SIMDIOX50_00056 Amount Added: 10.00 Units: uL
VMB/C/MIX1SIM_00034 Amount Added: 2.00 Units: uL
SimissurNEW_00042 Amount Added: 2.00 Units: uL Run Reagent

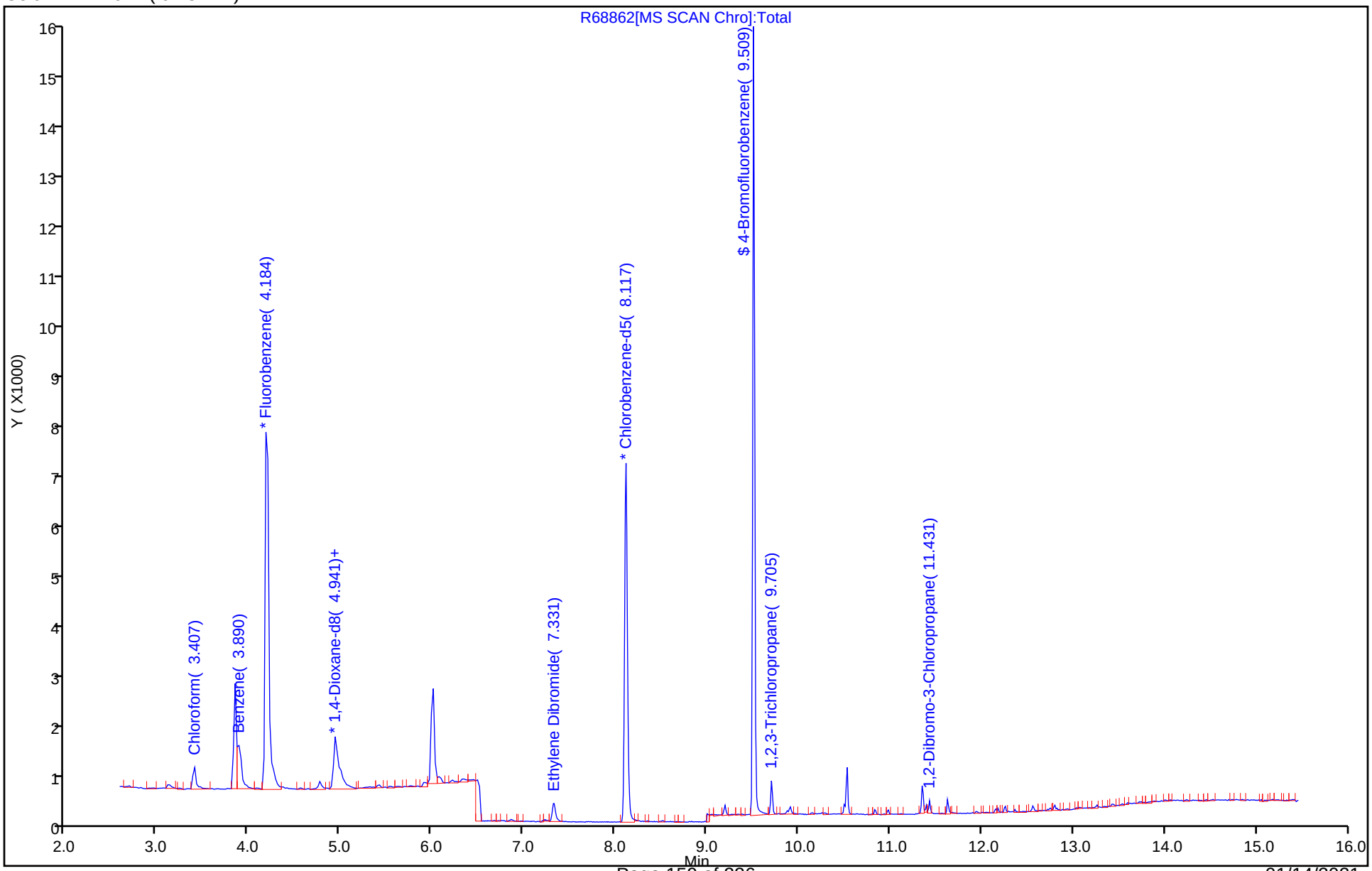
Report Date: 30-Dec-2020 18:12:28 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68862.d

Injection Date:	30-Dec-2020 12:13:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	STD1			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68863.d
Lims ID: STD5
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 30-Dec-2020 12:35:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0122338-004
Operator ID: Instrument ID: CVOAMS10
Sublist: chrom-8260SIM10*sub13

Method: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 30-Dec-2020 18:12:29 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	100	13279	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.920	4.920	0.000	53	1416	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	90	4052	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.509	9.509	0.000	96	7398	0.5000	0.5639	
7 Chloroform	83	3.386	3.386	0.000	98	772	0.0500	0.0452	
8 Benzene	78	3.890	3.890	0.000	100	1735	0.0500	0.0481	
9 1,4-Dioxane	88	5.004	5.004	0.000	97	1262	5.00	4.58	
10 Ethylene Dibromide	107	7.323	7.323	0.000	91	351	0.0500	0.0446	
11 1,2,3-Trichloropropane	75	9.705	9.705	0.000	79	583	0.0500	0.0545	
12 1,2-Dibromo-3-Chloropropane	157	11.431	11.431	0.000	52	197	0.0500	0.0582	

Reagents:

SIMDIOX50_00056 Amount Added: 20.00 Units: uL
VMB/C/MIX1SIM_00034 Amount Added: 1.00 Units: uL
SimissurNEW_00042 Amount Added: 2.00 Units: uL Run Reagent

Report Date: 30-Dec-2020 18:12:30 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68863.d

Injection Date: 30-Dec-2020 12:35:30 Instrument ID: CVOAMS10 Operator ID:

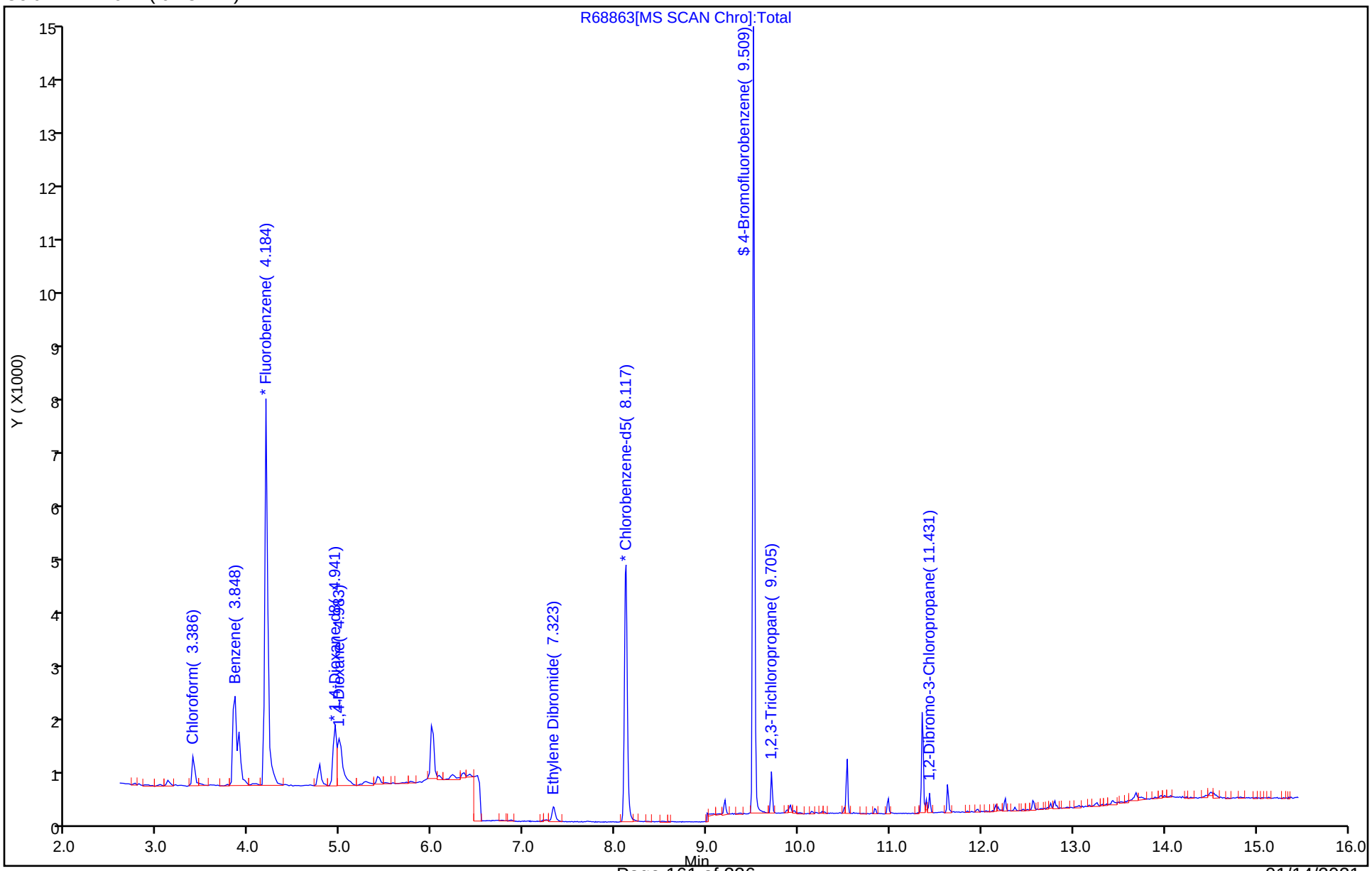
Lims ID: STD5 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260SIM10 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68864.d
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Dec-2020 12:56:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10
Misc. Info.: 460-0122338-005
Operator ID: Instrument ID: CVOAMS10
Sublist: chrom-8260SIM10*sub13

Method: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 30-Dec-2020 18:12:30 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	99	10265	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.920	4.920	0.000	51	1240	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	91	3822	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.510	9.509	0.001	97	6683	0.5000	0.5400	
7 Chloroform	83	3.386	3.386	0.000	98	1638	0.1000	0.1241	
8 Benzene	78	3.890	3.890	0.000	100	3341	0.1000	0.1199	
9 1,4-Dioxane	88	5.004	5.004	0.000	96	2313	10.0	9.60	
10 Ethylene Dibromide	107	7.324	7.323	0.001	92	778	0.1000	0.1048	
11 1,2,3-Trichloropropane	75	9.705	9.705	0.000	96	1177	0.1000	0.1167	
12 1,2-Dibromo-3-Chloropropane	157	11.432	11.431	0.001	53	403	0.1000	0.1262	

Reagents:

SIMDIOX50_00056 Amount Added: 20.00 Units: uL
VMB/C/MIX1SIM_00034 Amount Added: 1.00 Units: uL
SimissurNEW_00042 Amount Added: 2.00 Units: uL Run Reagent

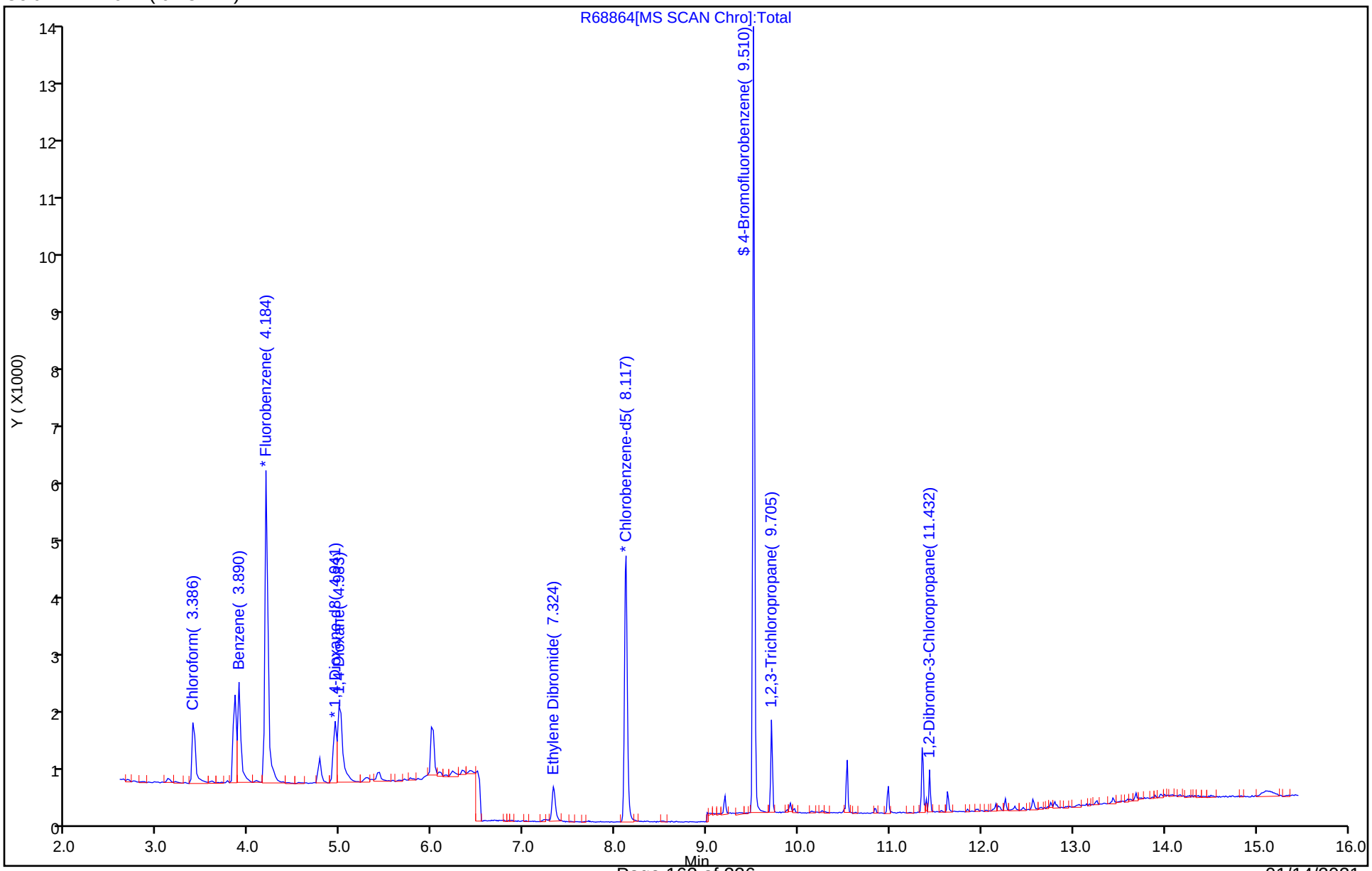
Report Date: 30-Dec-2020 18:12:31 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68864.d

Injection Date:	30-Dec-2020 12:56:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	STD10			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68865.d
Lims ID: STD20
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Dec-2020 13:19:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0122338-006
Operator ID: Instrument ID: CVOAMS10
Sublist: chrom-8260SIM10*sub13

Method: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 30-Dec-2020 18:12:32 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	99	10736	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.920	4.920	0.000	50	1230	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	90	4813	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.509	9.509	0.000	97	8114	0.5000	0.5207	
7 Chloroform	83	3.386	3.386	0.000	98	3263	0.2000	0.2363	
8 Benzene	78	3.890	3.890	0.000	100	6099	0.2000	0.2092	
9 1,4-Dioxane	88	5.004	5.004	0.000	97	4497	20.0	18.8	
10 Ethylene Dibromide	107	7.323	7.323	0.000	93	1704	0.2000	0.1823	
11 1,2,3-Trichloropropane	75	9.705	9.705	0.000	96	2492	0.2000	0.1961	
12 1,2-Dibromo-3-Chloropropane	157	11.431	11.431	0.000	53	782	0.2000	0.1945	

Reagents:

SIMDIOX50_00056	Amount Added: 20.00	Units: uL	
VMB/C/MIX1SIM_00034	Amount Added: 1.00	Units: uL	
SimissurNEW_00042	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 30-Dec-2020 18:12:32 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68865.d

Injection Date: 30-Dec-2020 13:19:30 Instrument ID: CVOAMS10 Operator ID:

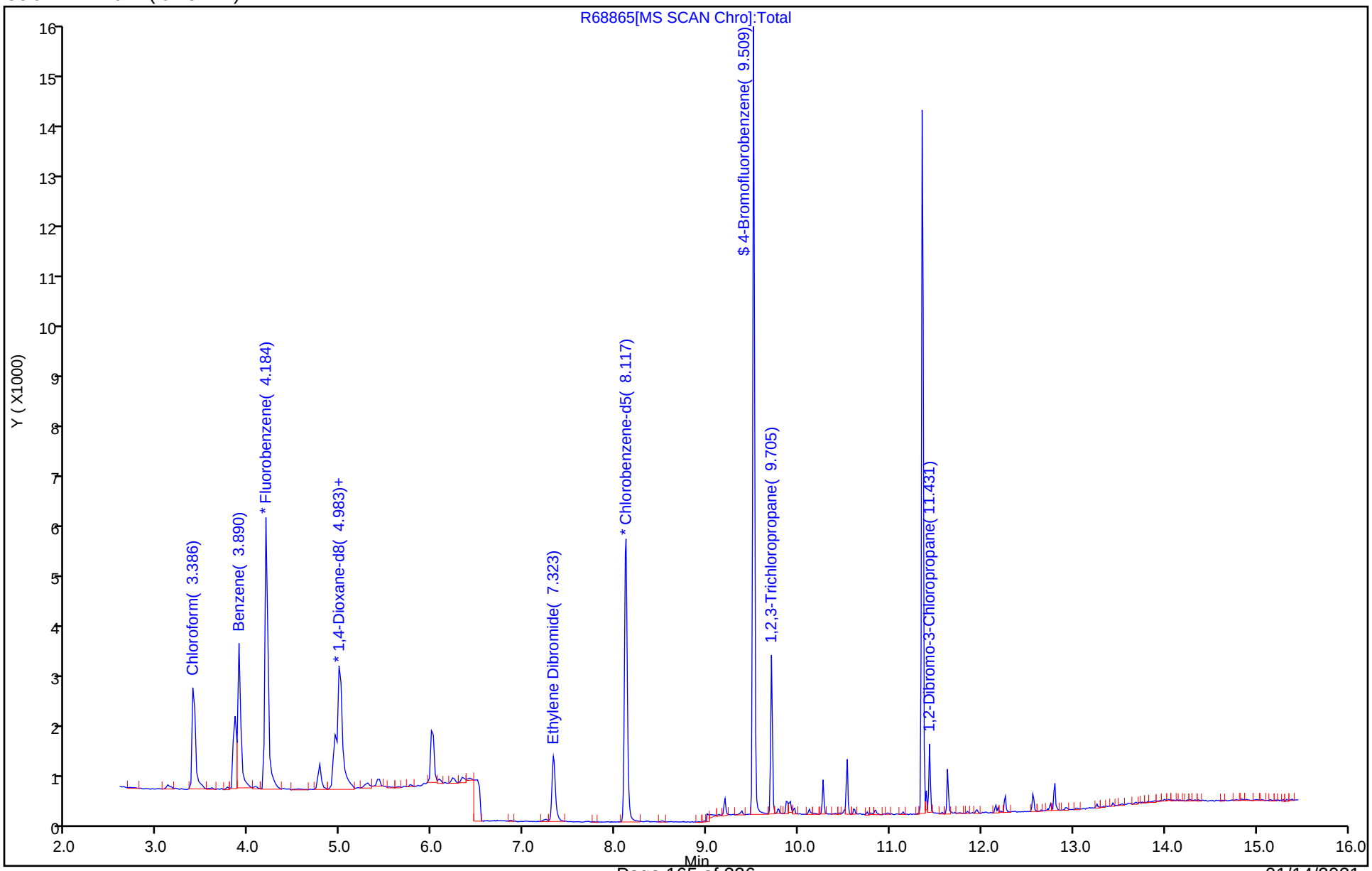
Lims ID: STD20 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260SIM10 Limit Group: VOA - 8260D Water and Solid

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68866.d
Lims ID: STD30
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Dec-2020 13:41:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD30
Misc. Info.: 460-0122338-007
Operator ID: Instrument ID: CVOAMS10
Sublist: chrom-8260SIM10*sub13

Method: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 30-Dec-2020 18:12:33 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: starzecm Date: 30-Dec-2020 14:03:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	99	13821	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.941	4.920	0.021	98	1293	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	91	5206	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.509	9.509	0.000	97	7645	0.5000	0.4535	
7 Chloroform	83	3.386	3.386	0.000	97	7836	0.5000	0.4409	
8 Benzene	78	3.890	3.890	0.000	100	16593	0.5000	0.4422	
9 1,4-Dioxane	88	5.004	5.004	0.000	92	6981	30.0	27.8	
10 Ethylene Dibromide	107	7.323	7.323	0.000	92	5163	0.5000	0.5107	
11 1,2,3-Trichloropropane	75	9.705	9.705	0.000	95	6036	0.5000	0.4392	
12 1,2-Dibromo-3-Chloropropane	157	11.431	11.431	0.000	52	1913	0.5000	0.4399	

QC Flag Legend
Processing Flags

Reagents:

SIMDIOX50_00056	Amount Added: 30.00	Units: uL	
VMB/C/MIX1SIM_00034	Amount Added: 2.50	Units: uL	
SimissurNEW_00042	Amount Added: 2.00	Units: uL	Run Reagent

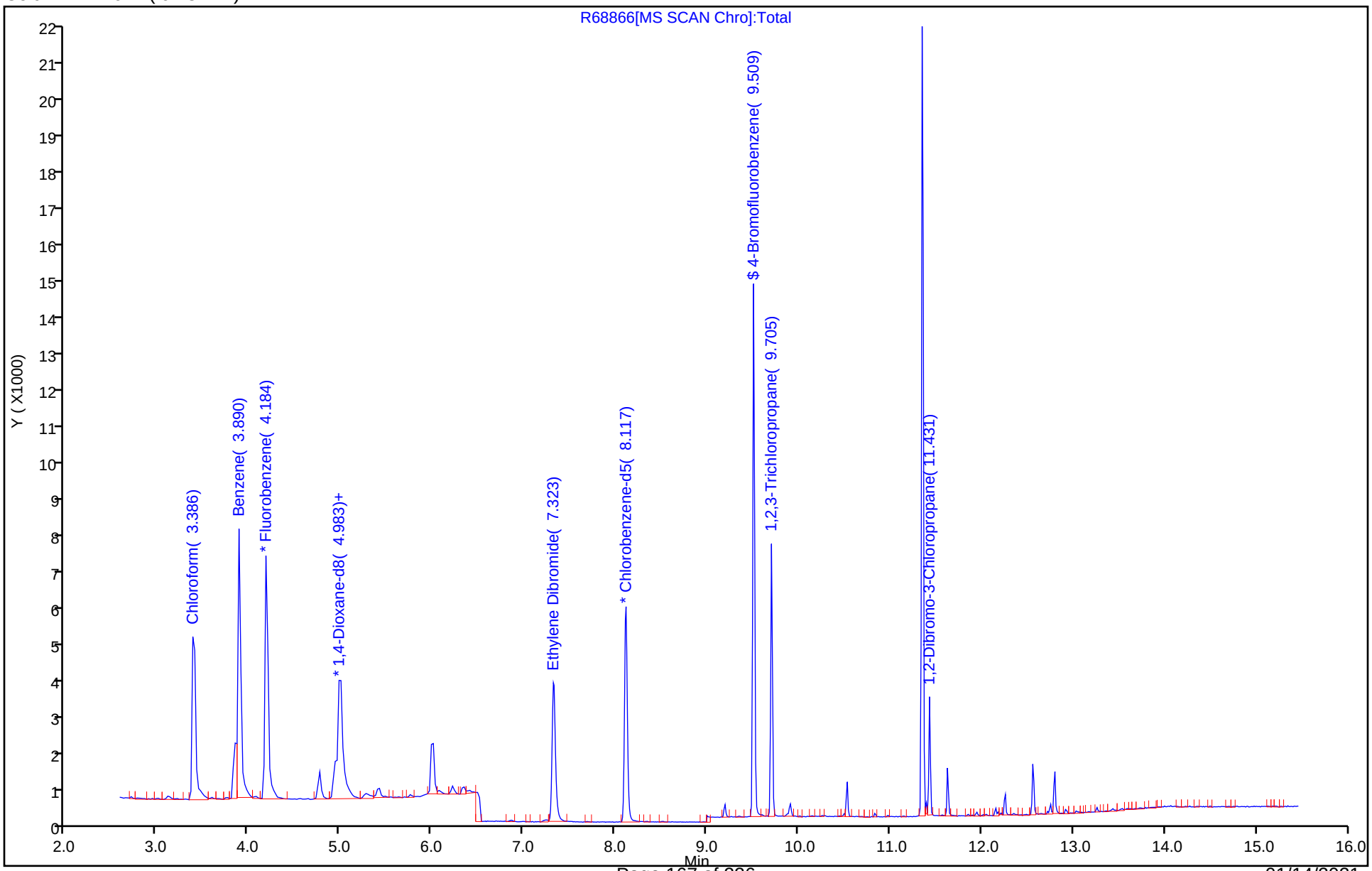
Report Date: 30-Dec-2020 18:12:34 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68866.d

Injection Date:	30-Dec-2020 13:41:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	STD30			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68867.d
Lims ID: STD40
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 30-Dec-2020 14:03:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD40
Misc. Info.: 460-0122338-008
Operator ID: Instrument ID: CVOAMS10
Sublist: chrom-8260SIM10*sub13

Method: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 30-Dec-2020 18:12:34 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: kluseys Date: 30-Dec-2020 14:27:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	99	10005	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.920	4.920	0.000	49	1429	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	91	5235	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.509	9.509	0.000	95	8610	0.5000	0.5080	
7 Chloroform	83	3.386	3.386	0.000	98	15769	1.00	1.23	
8 Benzene	78	3.890	3.890	0.000	92	28062	1.00	1.03	
9 1,4-Dioxane	88	5.004	5.004	0.000	97	9778	40.0	35.2	
10 Ethylene Dibromide	107	7.323	7.323	0.000	93	10227	1.00	1.01	
11 1,2,3-Trichloropropane	75	9.705	9.705	0.000	96	14206	1.00	1.03	
12 1,2-Dibromo-3-Chloropropane	157	11.431	11.431	0.000	72	4345	1.00	0.99	

QC Flag Legend
Processing Flags

Reagents:

SIMDIOX50_00056	Amount Added: 40.00	Units: uL	
VMB/C/MIX1SIM_00034	Amount Added: 5.00	Units: uL	
SimissurNEW_00042	Amount Added: 2.00	Units: uL	Run Reagent

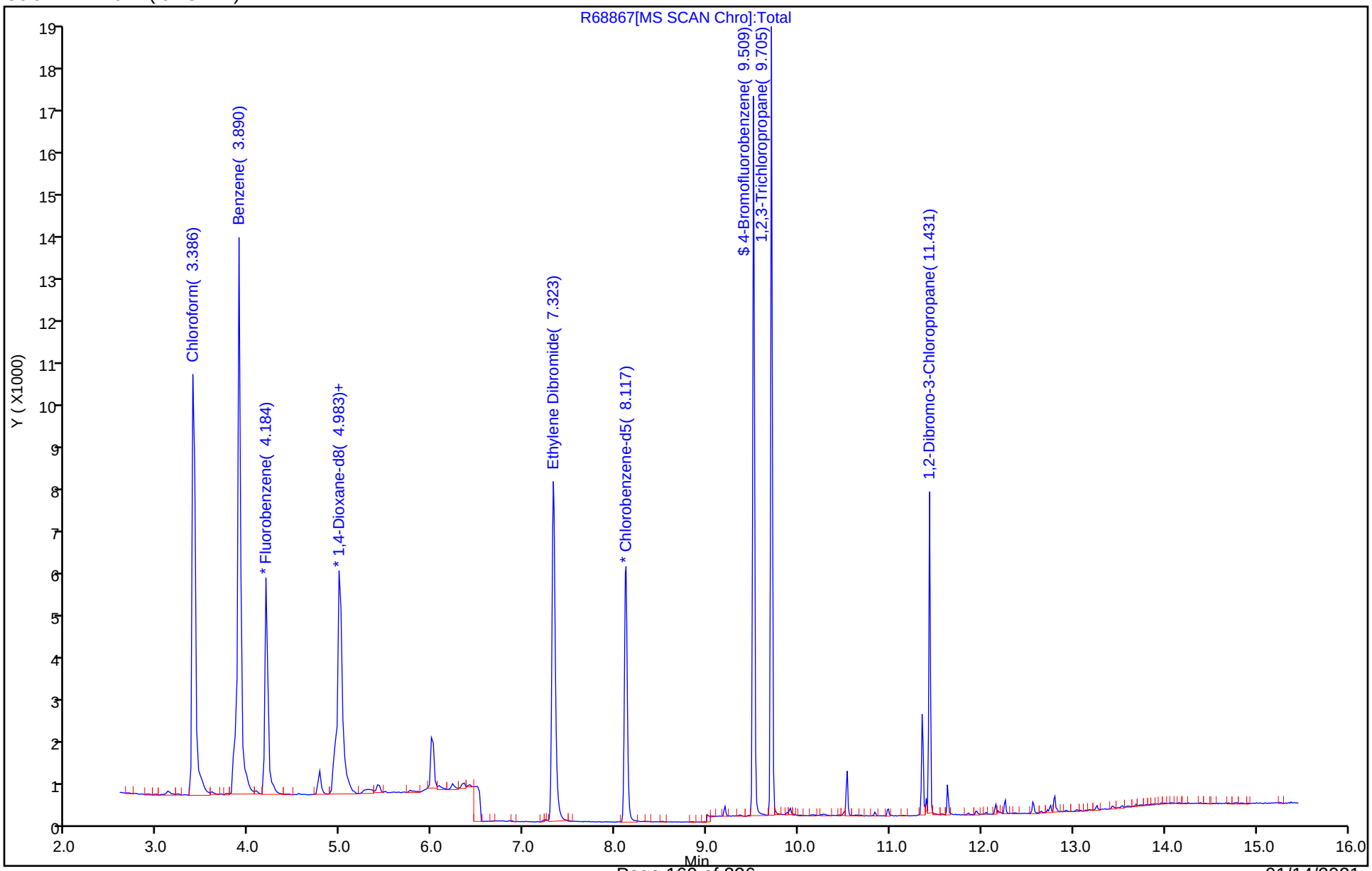
Report Date: 30-Dec-2020 18:12:35 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68867.d

Injection Date:	30-Dec-2020 14:03:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	STD40			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 30-Dec-2020 14:25:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0122338-009
Operator ID: Instrument ID: CVOAMS10
Sublist: chrom-8260SIM10*sub13

Method: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 30-Dec-2020 18:12:35 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: baronm Date: 30-Dec-2020 18:09:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	98	15862	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.941	4.920	0.021	98	1561	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	92	4199	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.509	9.509	0.000	97	7085	0.5000	0.5211	
7 Chloroform	83	3.407	3.386	0.021	96	33259	2.00	1.63	
8 Benzene	78	3.890	3.890	0.000	100	80916	2.00	1.88	
9 1,4-Dioxane	88	5.004	5.004	0.000	91	13728	50.0	45.2	
10 Ethylene Dibromide	107	7.323	7.323	0.000	92	17041	2.00	2.09	
11 1,2,3-Trichloropropane	75	9.705	9.705	0.000	96	24727	2.00	2.23	
12 1,2-Dibromo-3-Chloropropane	157	11.431	11.431	0.000	77	8164	2.00	2.33	

QC Flag Legend
Processing Flags

Reagents:

SIMDIOX50_00056	Amount Added: 50.00	Units: uL	
VMB/C/MIX1SIM_00034	Amount Added: 10.00	Units: uL	
SimissurNEW_00042	Amount Added: 2.00	Units: uL	Run Reagent

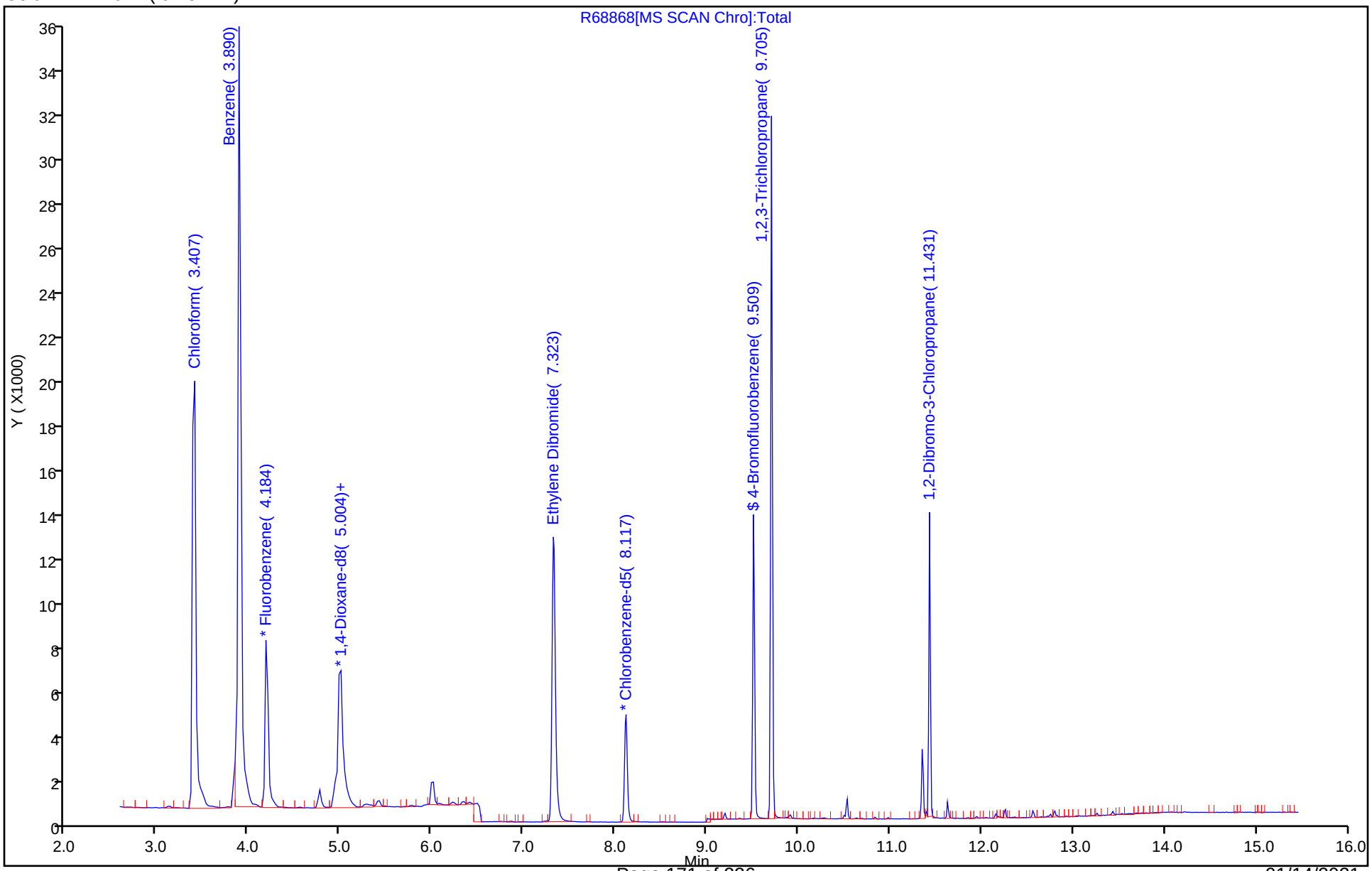
Report Date: 30-Dec-2020 18:12:36 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Injection Date:	30-Dec-2020 14:25:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	STD50			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab Sample ID: ICV 460-750290/12 Calibration Date: 12/30/2020 15:31

Instrument ID: CVOAMS10 Calib Start Date: 12/30/2020 11:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 12/30/2020 14:25

Lab File ID: R68871.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.6430	0.6025	0.2000	0.0670	0.0500	-6.3	30.0
Benzene	Ave	1.358	1.624	0.5000	0.100	0.0500	19.6	30.0
1,4-Dioxane	Ave	1.944	1.966		5.06	5.00	1.1	30.0
Ethylene Dibromide	Ave	0.9710	1.071	0.1000	0.0552	0.0500	10.3	30.0
1,2,3-Trichloropropane	Ave	1.320	1.525		0.0578	0.0500	15.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.4177	0.4688	0.0500	0.0561	0.0500	12.2	30.0
4-Bromofluorobenzene	Ave	1.619	1.604		0.495	0.500	-0.9	30.0

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68871.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 30-Dec-2020 15:31:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 460-0122338-012
Operator ID: Instrument ID: CVOAMS10
Sublist:

Method: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 30-Dec-2020 18:20:39 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	97	15038	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.941	4.920	0.021	97	1403	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	92	4480	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.509	9.509	0.000	97	7186	0.5000	0.4954	
7 Chloroform	83	3.407	3.386	0.021	95	906	0.0500	0.0468	
8 Benzene	78	3.890	3.890	0.000	92	2442	0.0500	0.0598	
9 1,4-Dioxane	88	5.004	5.004	0.000	90	1379	5.00	5.06	
10 Ethylene Dibromide	107	7.323	7.323	0.000	91	480	0.0500	0.0552	
11 1,2,3-Trichloropropane	75	9.705	9.705	0.000	97	683	0.0500	0.0578	
12 1,2-Dibromo-3-Chloropropane	157	11.431	11.431	0.000	50	210	0.0500	0.0561	

Reagents:

SIMMIX1SS_00033 Amount Added: 1.00 Units: uL
1,4DIOXSP_00110 Amount Added: 20.00 Units: uL
SimissurNEW_00042 Amount Added: 2.00 Units: uL Run Reagent

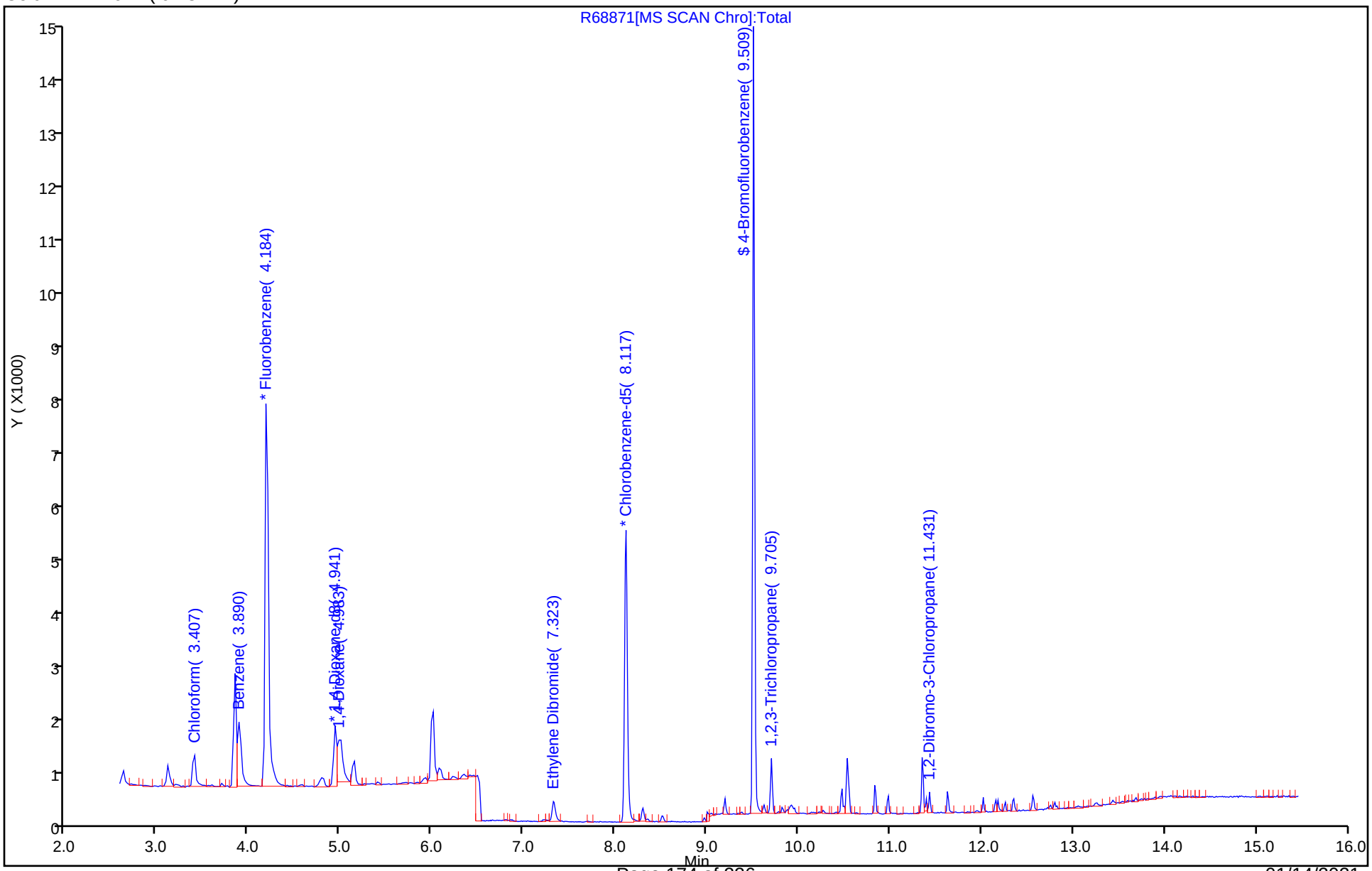
Report Date: 30-Dec-2020 18:20:41 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68871.d

Injection Date:	30-Dec-2020 15:31:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab Sample ID: CCVIS 460-751577/2 Calibration Date: 01/08/2021 08:26

Instrument ID: CVOAMS10 Calib Start Date: 12/30/2020 11:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 12/30/2020 14:25

Lab File ID: R69129.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.6430	0.4909	0.2000	0.0670	0.0500	-23.7*	20.0
Benzene	Ave	1.358	1.468	0.5000	0.100	0.0500	8.1	20.0
1,4-Dioxane	Ave	1.944	2.215		5.70	5.00	13.9	50.0
Ethylene Dibromide	Ave	0.9710	1.192	0.1000	0.0614	0.0500	22.8*	20.0
1,2,3-Trichloropropane	Ave	1.320	1.284		0.0487	0.0500	-2.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.4177	0.4399	0.0500	0.0527	0.0500	5.3	50.0
4-Bromofluorobenzene	Ave	1.619	1.441		0.445	0.500	-11.0	20.0

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69129.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Jan-2021 08:26:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0122597-002
Operator ID: Instrument ID: CVOAMS10
Sublist: chrom-8260SIM10*sub13

Method: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 10-Jan-2021 11:48:39 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: starzecm Date: 08-Jan-2021 09:22:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	99	14994	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.941	4.941	0.000	99	930	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	86	3683	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.509	9.509	0.000	89	5308	0.5000	0.4451	
7 Chloroform	83	3.407	3.407	0.000	96	736	0.0500	0.0382	
8 Benzene	78	3.890	3.890	0.000	100	2201	0.0500	0.0541	
9 1,4-Dioxane	88	5.004	5.004	0.000	97	1030	5.00	5.70	
10 Ethylene Dibromide	107	7.323	7.323	0.000	92	439	0.0500	0.0614	
11 1,2,3-Trichloropropane	75	9.705	9.705	0.000	80	473	0.0500	0.0487	
12 1,2-Dibromo-3-Chloropropane	157	11.431	11.431	0.000	55	162	0.0500	0.0527	

QC Flag Legend
Processing Flags

Reagents:
SIMDIOX50_00056 Amount Added: 20.00 Units: uL
VMB/C/MIX1SIM_00034 Amount Added: 1.00 Units: uL
SimissurNEW_00043 Amount Added: 2.00 Units: uL Run Reagent

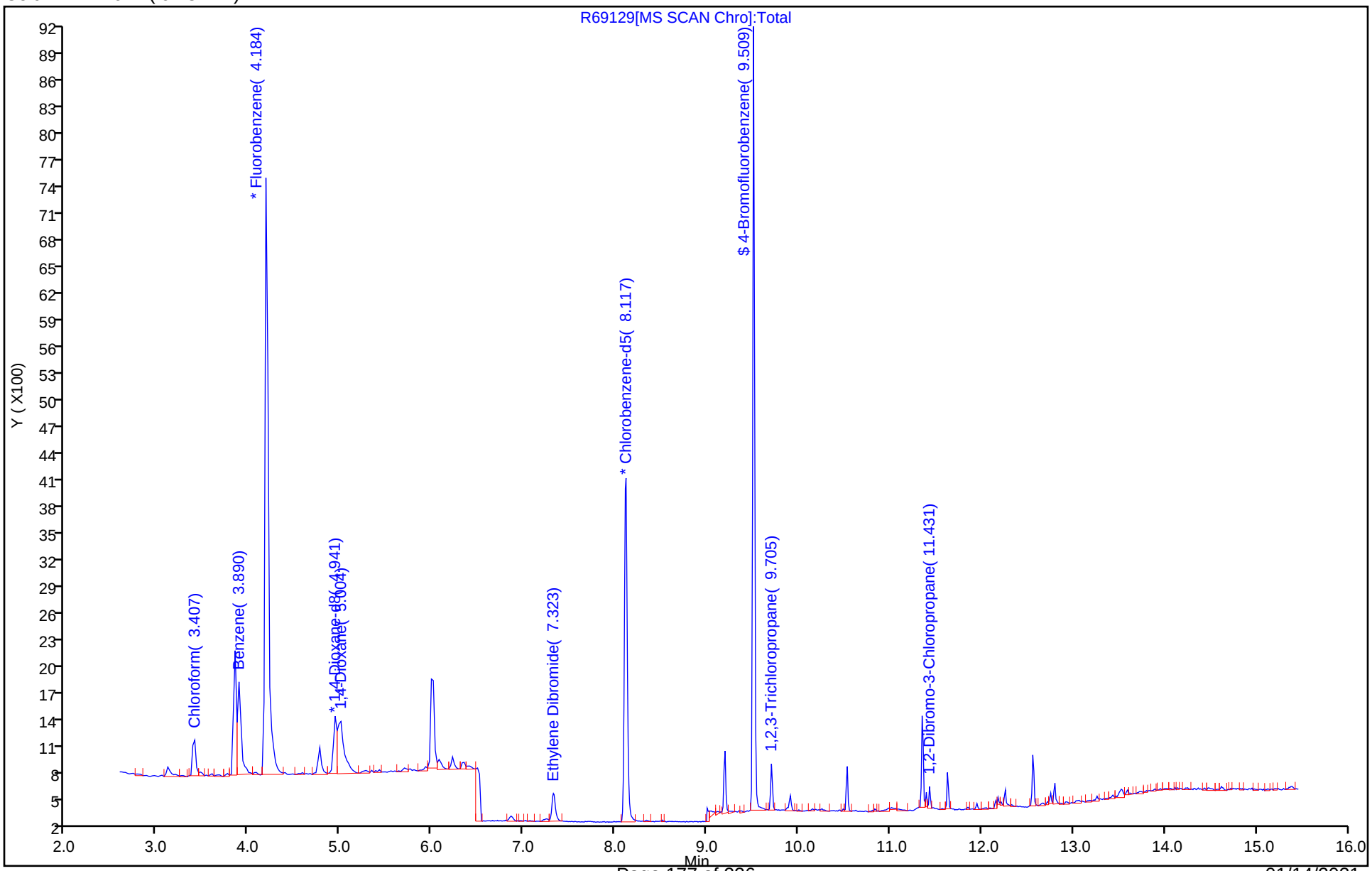
Report Date: 10-Jan-2021 11:48:39 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69129.d

Injection Date:	08-Jan-2021 08:26:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68859.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 30-Dec-2020 11:12:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 10.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0122338-001
Operator ID: Instrument ID: CVOAMS10

Method: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 30-Dec-2020 18:20:39 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1603

First Level Reviewer: martineze Date: 30-Dec-2020 11:21:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 5 BFB	95	2.688	2.688	0.000	0	185043	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

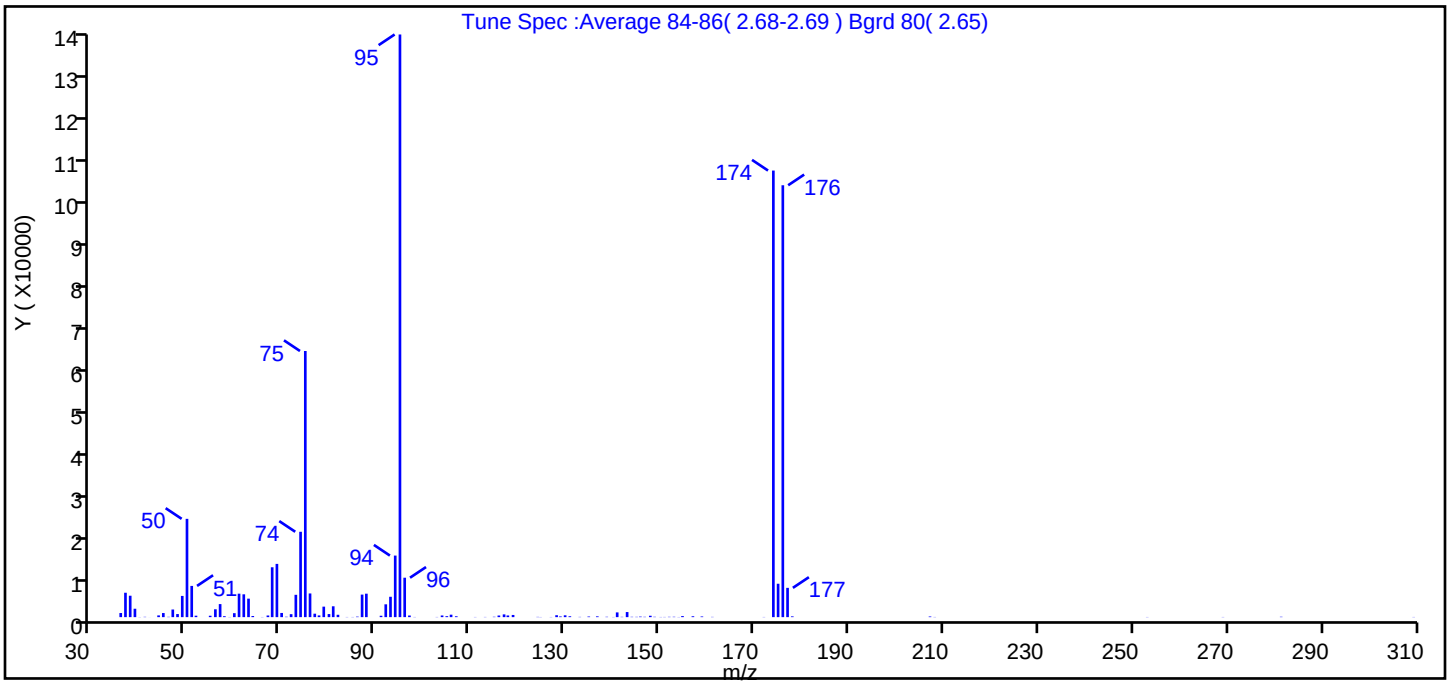
BFB_00027 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68859.d
Injection Date: 30-Dec-2020 11:12:30 Instrument ID: CVOAMS10
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 10.0 mL Dil. Factor: 1.0000
Method: 8260SIM10 Limit Group: VOA - 8260D Water and Solid
Tune Method: BFB Method 8260

$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.9
75	30 to 60% of m/z 95	45.7
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	76.6
175	5 to 9% of m/z 174	5.7 (7.5)
176	Greater than 95% but less than 101% of m/z 174	74.1 (96.7)
177	5 to 9% of m/z 176	5.0 (6.8)

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68859.d\8260SIM10.rslt\spectra.d
Injection Date: 30-Dec-2020 11:12:30
Spectrum: Tune Spec :Average 84-86(2.68-2.69) Bgrd 80(2.65)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	920	68.00	11132	103.00	41	145.00	66
37.00	5447	69.00	11887	104.00	371	146.00	121
38.00	4781	70.00	934	105.00	217	147.00	73
39.00	1876	71.00	87	106.00	550	148.00	310
40.00	26	72.00	664	107.00	190	149.00	76
41.00	68	73.00	4984	111.00	39	150.00	40
42.00	8	74.00	19056	113.00	44	151.00	44
44.00	389	75.00	59408	115.00	83	152.00	72
45.00	915	76.00	5288	116.00	364	153.00	82
46.00	70	77.00	770	117.00	616	154.00	35
47.00	1704	78.00	383	118.00	373	155.00	233
48.00	689	79.00	2344	119.00	487	157.00	195
49.00	4737	80.00	688	124.00	57	159.00	149
50.00	21944	81.00	2424	125.00	36	161.00	56
51.00	6971	82.00	528	127.00	37	172.00	40
52.00	322	84.00	39	128.00	428	174.00	99688
55.00	311	85.00	38	129.00	154	175.00	7457
56.00	1756	86.00	114	130.00	408	176.00	96408
57.00	2914	87.00	5033	131.00	193	177.00	6538
58.00	209	88.00	5236	133.00	57	178.00	170
59.00	36	91.00	309	135.00	136	207.00	144
60.00	887	92.00	2863	137.00	177	208.00	40
61.00	5240	93.00	4546	139.00	81	253.00	37
62.00	5097	94.00	13743	140.00	37	269.00	39
63.00	4130	95.00	130064	141.00	1058	281.00	85
64.00	247	96.00	8801	142.00	67	309.00	40
66.00	34	97.00	364	143.00	1135		
67.00	367	98.00	39	144.00	75		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-751577/8

Matrix: Water Lab File ID: R69135.d

Analysis Method: 8260D SIM Date Collected:

Sample wt/vol: 10(mL) Date Analyzed: 01/08/2021 10:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751577 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.33	U	0.40	0.33

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	93		52-137

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69135.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Jan-2021 10:38:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0122597-008
Operator ID: Instrument ID: CVOAMS10

Method: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 10-Jan-2021 11:48:47 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: xuyvo Date: 10-Jan-2021 11:49:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.205	4.184	0.021	98	10713	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.941	4.941	0.000	97	837	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	90	4158	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.521	9.509	0.012	54	6228	0.5000	0.4626	
8 Benzene	78	3.890	3.890	0.000	100	127		0.004366	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

SimissurNEW_00043 Amount Added: 2.00 Units: uL Run Reagent

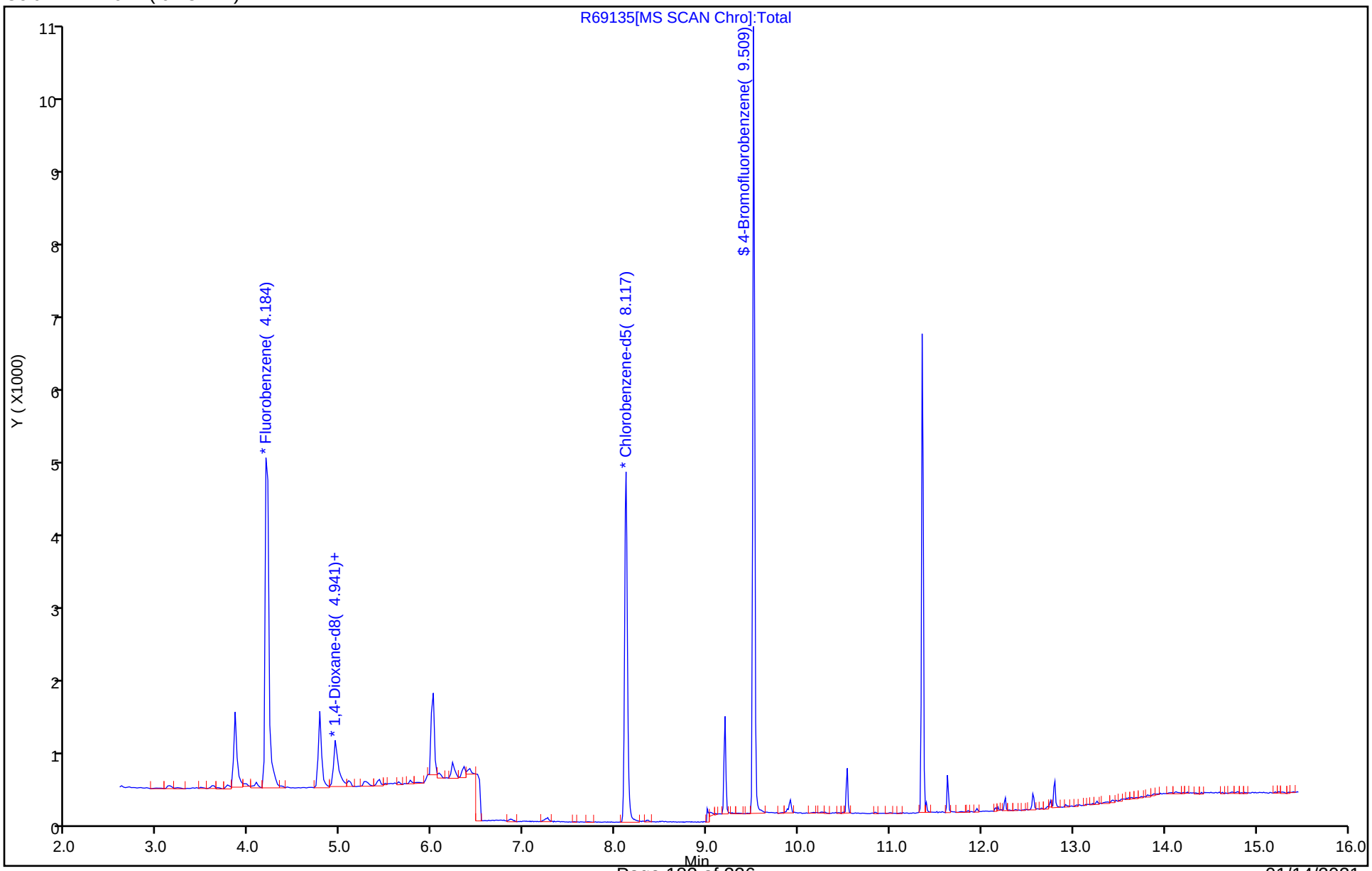
Report Date: 10-Jan-2021 11:49:05 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69135.d

Injection Date:	08-Jan-2021 10:38:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 460-751577/3

Matrix: Water Lab File ID: R69130.d

Analysis Method: 8260D SIM Date Collected:

Sample wt/vol: 10(mL) Date Analyzed: 01/08/2021 08:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751577 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.24		0.40	0.33

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	102		52-137

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69130.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Jan-2021 08:47:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0122597-003
Operator ID: Instrument ID: CVOAMS10

Method: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 10-Jan-2021 11:48:43 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: starzecm Date: 09-Jan-2021 10:16:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	100	8145	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.941	4.941	0.000	95	687	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	87	2825	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.509	9.509	0.000	89	4654	0.5000	0.5088	
7 Chloroform	83	3.386	3.386	0.000	100	537	0.0500	0.0513	
8 Benzene	78	3.890	3.890	0.000	92	1176	0.0500	0.0532	
9 1,4-Dioxane	88	5.004	5.004	0.000	95	700	5.00	5.24	
10 Ethylene Dibromide	107	7.323	7.323	0.000	92	272	0.0500	0.0496	
11 1,2,3-Trichloropropane	75	9.705	9.705	0.000	79	331	0.0500	0.0444	
12 1,2-Dibromo-3-Chloropropane	157	11.431	11.431	0.000	61	126	0.0500	0.0534	

QC Flag Legend
Processing Flags

Reagents:

SIMDIOX50_00056	Amount Added: 20.00	Units: uL	
VMB/C/MIX1SIM_00034	Amount Added: 1.00	Units: uL	
SimissurNEW_00043	Amount Added: 2.00	Units: uL	Run Reagent

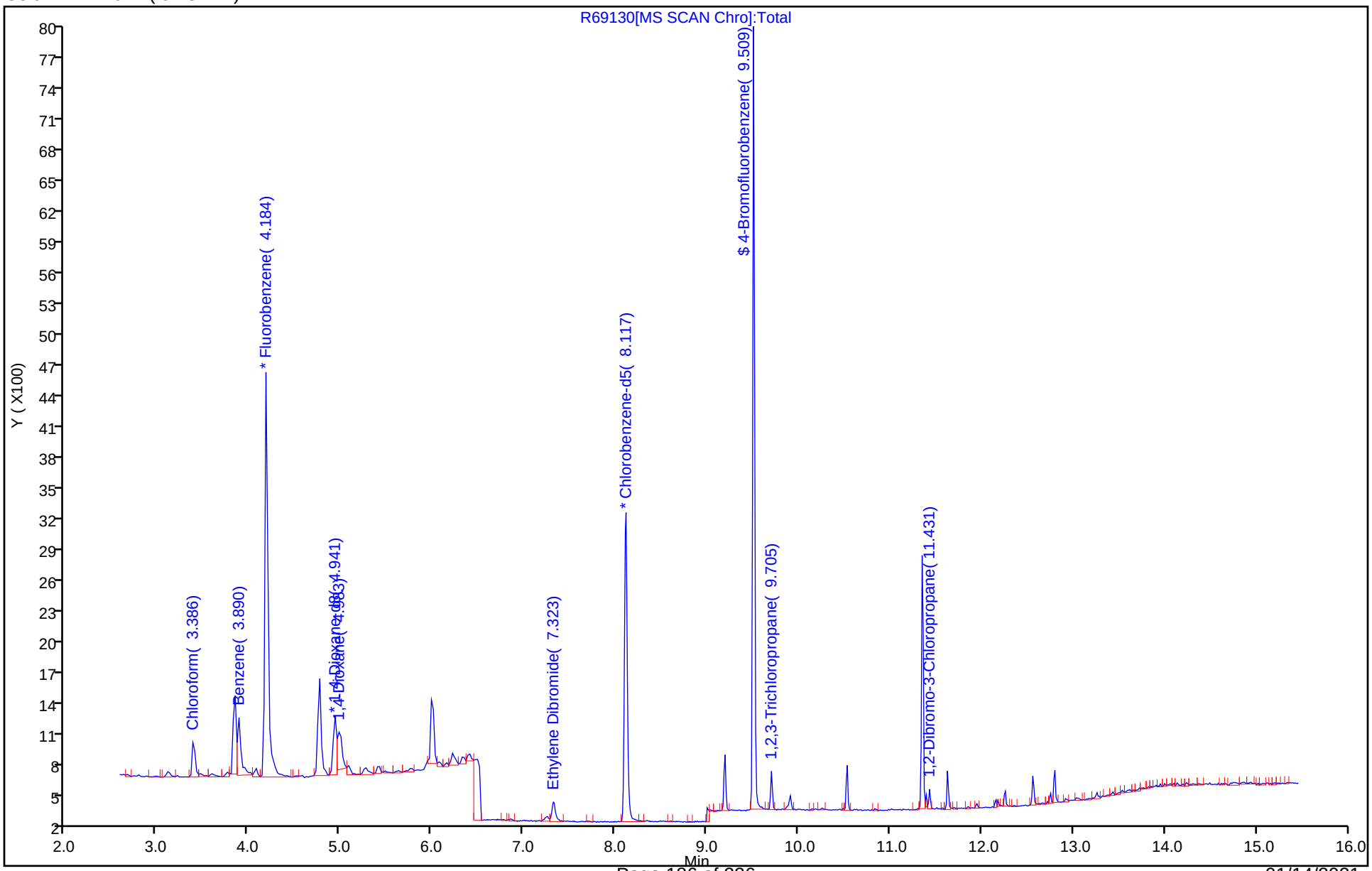
Report Date: 10-Jan-2021 11:48:43 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69130.d

Injection Date:	08-Jan-2021 08:47:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 460-751577/5

Matrix: Water Lab File ID: R69132.d

Analysis Method: 8260D SIM Date Collected:

Sample wt/vol: 10(mL) Date Analyzed: 01/08/2021 09:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 751577 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.15		0.40	0.33

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	86		52-137

Eurofins TestAmerica, Edison
Target Compound Quantitation Report

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69132.d
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 08-Jan-2021 09:32:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0122597-005
Operator ID: Instrument ID: CVOAMS10

Method: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\8260SIM10.m
Limit Group: VOA - 8260D Water and Solid
Last Update: 10-Jan-2021 11:48:47 Calib Date: 30-Dec-2020 14:25:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Edison\ChromData\CVOAMS10\20201230-122338.b\R68868.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: xuyvo Date: 10-Jan-2021 11:48:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.184	4.184	0.000	98	13713	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	4.941	4.941	0.000	98	886	10.0	10.0	
* 3 Chlorobenzene-d5	119	8.117	8.117	0.000	89	4875	0.5000	0.5000	
$ 4 4-Bromofluorobenzene	174	9.521	9.509	0.012	55	6766	0.5000	0.4286	
7 Chloroform	83	3.407	3.386	0.021	96	552	0.0500	0.0313	
8 Benzene	78	3.890	3.890	0.000	100	1654	0.0500	0.0444	
9 1,4-Dioxane	88	5.004	5.004	0.000	92	887	5.00	5.15	
10 Ethylene Dibromide	107	7.323	7.323	0.000	93	496	0.0500	0.0524	
11 1,2,3-Trichloropropane	75	9.705	9.705	0.000	80	443	0.0500	0.0344	
12 1,2-Dibromo-3-Chloropropane	157	11.431	11.431	0.000	56	149	0.0500	0.0366	

QC Flag Legend
Processing Flags

Reagents:
SIMDIOX50_00056 Amount Added: 20.00 Units: uL
VMB/C/MIX1SIM_00034 Amount Added: 1.00 Units: uL
SimissurNEW_00043 Amount Added: 2.00 Units: uL Run Reagent

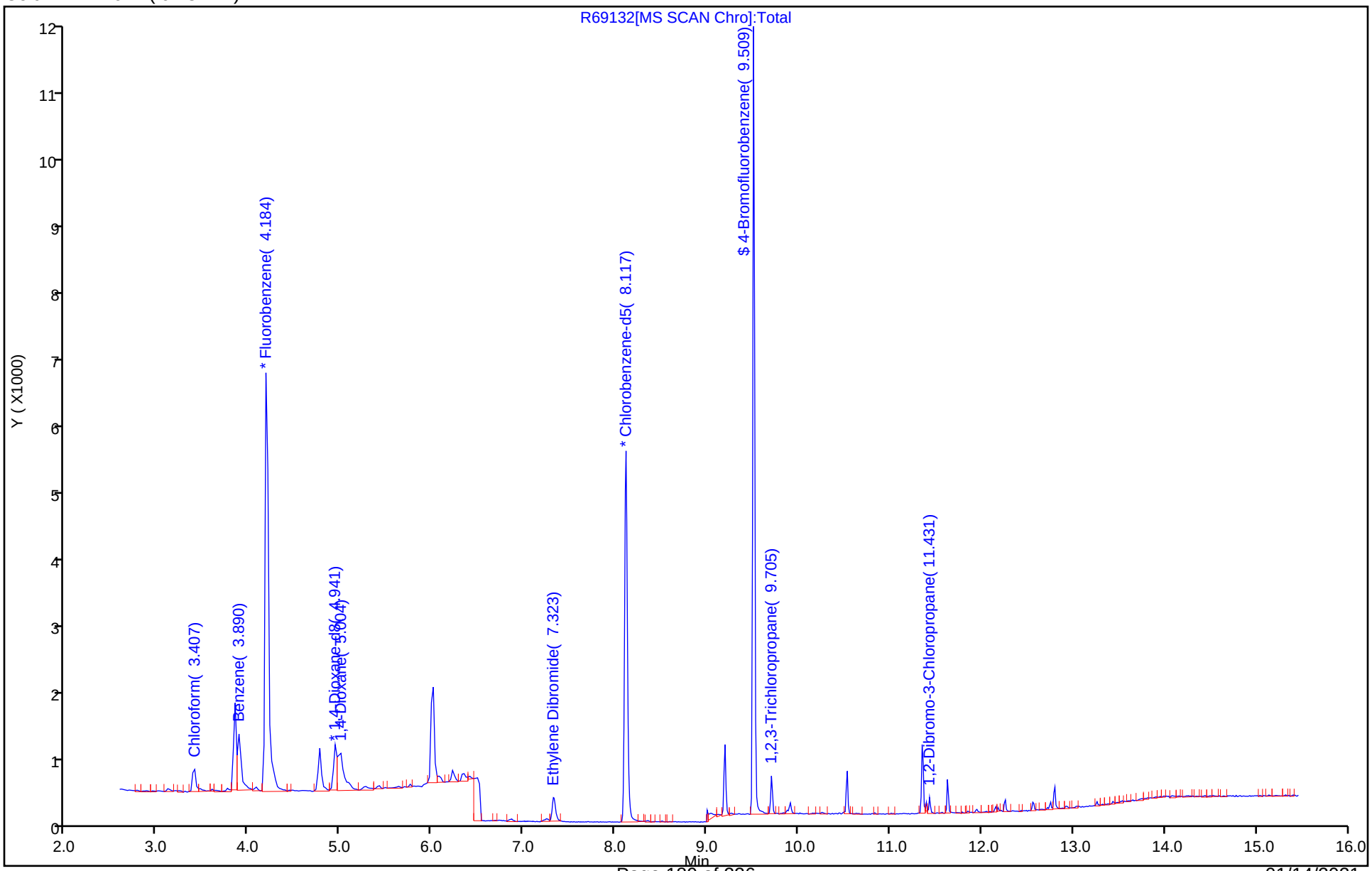
Report Date: 10-Jan-2021 11:48:54 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Edison

Data File: \\chromfs\Edison\ChromData\CVOAMS10\20210108-122597.b\R69132.d

Injection Date:	08-Jan-2021 09:32:30	Instrument ID:	CVOAMS10	Operator ID:	
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260SIM10	Limit Group:	VOA - 8260D Water and Solid		

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Instrument ID: CVOAMS10 Start Date: 12/30/2020 11:12

Analysis Batch Number: 750290 End Date: 12/30/2020 21:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-750290/1		12/30/2020 11:12	1	R68859.d	DB-624 0.18(mm)
STD04 460-750290/2 IC		12/30/2020 11:51	1	R68861.d	DB-624 0.18(mm)
STD1 460-750290/3 IC		12/30/2020 12:13	1	R68862.d	DB-624 0.18(mm)
STD5 460-750290/4 ICIS		12/30/2020 12:35	1	R68863.d	DB-624 0.18(mm)
STD10 460-750290/5 IC		12/30/2020 12:56	1	R68864.d	DB-624 0.18(mm)
STD20 460-750290/6 IC		12/30/2020 13:19	1	R68865.d	DB-624 0.18(mm)
STD30 460-750290/7 IC		12/30/2020 13:41	1	R68866.d	DB-624 0.18(mm)
STD40 460-750290/8 IC		12/30/2020 14:03	1	R68867.d	DB-624 0.18(mm)
STD50 460-750290/9 IC		12/30/2020 14:25	1	R68868.d	DB-624 0.18(mm)
ICV 460-750290/12		12/30/2020 15:31	1	R68871.d	DB-624 0.18(mm)
ZZZZZ		12/30/2020 15:53	1		DB-624 0.18(mm)
ZZZZZ		12/30/2020 16:15	1		DB-624 0.18(mm)
ZZZZZ		12/30/2020 17:22	1		DB-624 0.18(mm)
ZZZZZ		12/30/2020 17:44	1		DB-624 0.18(mm)
ZZZZZ		12/30/2020 18:06	1		DB-624 0.18(mm)
ZZZZZ		12/30/2020 18:28	1		DB-624 0.18(mm)
ZZZZZ		12/30/2020 19:12	1		DB-624 0.18(mm)
ZZZZZ		12/30/2020 21:02	1		DB-624 0.18(mm)
ZZZZZ		12/30/2020 21:24	1		DB-624 0.18(mm)
ZZZZZ		12/30/2020 21:46	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Instrument ID: CVOAMS10 Start Date: 01/08/2021 07:57

Analysis Batch Number: 751577 End Date: 01/08/2021 15:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/08/2021 07:57	1		DB-624 0.18(mm)
CCVIS 460-751577/2		01/08/2021 08:26	1	R69129.d	DB-624 0.18(mm)
LCS 460-751577/3		01/08/2021 08:47	1	R69130.d	DB-624 0.18(mm)
LCSD 460-751577/5		01/08/2021 09:32	1	R69132.d	DB-624 0.18(mm)
MB 460-751577/8		01/08/2021 10:38	1	R69135.d	DB-624 0.18(mm)
460-226054-4	Trip Blank	01/08/2021 13:55	1	R69137.d	DB-624 0.18(mm)
460-226054-3	FB-1_010721	01/08/2021 14:17	1	R69138.d	DB-624 0.18(mm)
460-226054-1	WW-7S-010721	01/08/2021 14:39	1	R69139.d	DB-624 0.18(mm)
460-226054-2	DUP-1_010721	01/08/2021 15:01	1	R69140.d	DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Batch Number: 750290 Batch Start Date: 12/30/20 11:12 Batch Analyst: Starzec, Margaret

Batch Method: 8260D SIM Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	1,4DIOXSP 00110	BFB 00027	SIMDIOX50 00056	SimissurNEW 00042
BFB 460-750290/1		8260D SIM		10 mL	10 mL		1 uL		
STD04 460-750290/2 IC		8260D SIM		10 mL	10 mL			4 uL	2 uL
STD1 460-750290/3 IC		8260D SIM		10 mL	10 mL			10 uL	2 uL
STD5 460-750290/4 ICIS		8260D SIM		10 mL	10 mL			20 uL	2 uL
STD10 460-750290/5 IC		8260D SIM		10 mL	10 mL			20 uL	2 uL
STD20 460-750290/6 IC		8260D SIM		10 mL	10 mL			20 uL	2 uL
STD30 460-750290/7 IC		8260D SIM		10 mL	10 mL			30 uL	2 uL
STD40 460-750290/8 IC		8260D SIM		10 mL	10 mL			40 uL	2 uL
STD50 460-750290/9 IC		8260D SIM		10 mL	10 mL			50 uL	2 uL
ICV 460-750290/12		8260D SIM		10 mL	10 mL	20 uL			2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	SIMMIX1SS 00033	VMB/C/MIX1SIM 00034				
BFB 460-750290/1		8260D SIM							
STD04 460-750290/2 IC		8260D SIM			1 uL				
STD1 460-750290/3 IC		8260D SIM			2 uL				
STD5 460-750290/4 ICIS		8260D SIM			1 uL				
STD10 460-750290/5 IC		8260D SIM			1 uL				
STD20 460-750290/6 IC		8260D SIM			1 uL				
STD30 460-750290/7 IC		8260D SIM			2.5 uL				
STD40 460-750290/8 IC		8260D SIM			5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Batch Number: 750290 Batch Start Date: 12/30/20 11:12 Batch Analyst: Starzec, Margaret

Batch Method: 8260D SIM Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	SIMMIX1SS 00033	VMB/C/MIX1SIM 00034				
STD50 460-750290/9 IC		8260D SIM			10 uL				
ICV 460-750290/12		8260D SIM		1 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Batch Number: 751577 Batch Start Date: 01/08/21 07:57 Batch Analyst: Starzec, Margaret

Batch Method: 8260D SIM Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	SIMDIOX50 00056	SimissurNEW 00043	VMB/C/MIX1SIM 00034
CCVIS 460-751577/2		8260D SIM		10 mL	10 mL		20 uL	2 uL	1 uL
LCS 460-751577/3		8260D SIM		10 mL	10 mL		20 uL	2 uL	1 uL
LCSD 460-751577/5		8260D SIM		10 mL	10 mL		20 uL	2 uL	1 uL
MB 460-751577/8		8260D SIM		10 mL	10 mL			2 uL	
460-226054-C-4	Trip Blank	8260D SIM	T	10 mL	10 mL	< PH Units		2 uL	
460-226054-D-3	FB-1_010721	8260D SIM	T	10 mL	10 mL	< PH Units		2 uL	
460-226054-D-1	WW-7S-010721	8260D SIM	T	10 mL	10 mL	< PH Units		2 uL	
460-226054-D-2	DUP-1_010721	8260D SIM	T	10 mL	10 mL	< PH Units		2 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: Eurofins TestAmerica, Edison Job Number: 460-226054-1

SDG No.:

Project: Thomas & Betts Ansley Facility/Perkasie

Client Sample ID	Lab Sample ID
WW-7S-010721	460-226054-1
DUP-1_010721	460-226054-2
FB-1_010721	460-226054-3

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WW-7S-010721 Lab Sample ID: 460-226054-1

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG ID.:

Matrix: Water Date Sampled: 01/07/2021 14:55

Reporting Basis: WET Date Received: 01/07/2021 20:05

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	8.9	10.0	2.4	ug/L	J		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP-1_010721 Lab Sample ID: 460-226054-2

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG ID.:

Matrix: Water Date Sampled: 01/07/2021 14:55

Reporting Basis: WET Date Received: 01/07/2021 20:05

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	7.7	10.0	2.4	ug/L	J		1	6010D

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FB-1_010721 Lab Sample ID: 460-226054-3

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG ID.:

Matrix: Water Date Sampled: 01/07/2021 14:40

Reporting Basis: WET Date Received: 01/07/2021 20:05

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-92-1	Lead	2.4	10.0	2.4	ug/L	U		1	6010D

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

ICV Source: ME_ICV_D_00138 Concentration Units: ug/L

CCV Source: ME_CAL4_D_00009

Analyte	ICV 460-752508/7 01/13/2021 12:09				CCV 460-752508/16 01/13/2021 12:47				CCV 460-752508/28 01/13/2021 13:56			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	992.9		1000	99	961.7		1000	96	989.4		1000	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

ICV Source: ME_ICV_D_00138 Concentration Units: ug/L

CCV Source: ME_CAL4_D_00009

Analyte	CCV 460-752508/40 01/13/2021 14:44											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	1006		1000	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 460-752508/8 01/13/2021 12:13		CCB 460-752508/17 01/13/2021 12:51		CCB 460-752508/29 01/13/2021 14:00		CCB 460-752508/41 01/13/2021 14:48	
		Found	C	Found	C	Found	C	Found	C
Lead	10.0	2.4	U	2.4	U	2.4	U	2.4	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 460-752246/1-A

Instrument Code: ICP6 Batch No.: 752508

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	2.4	U		6010D

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab Sample ID: ICSA 460-752508/10 Instrument ID: ICP6

Lab File ID: 011321.asc ICS Source: ME_ICSA_D_00004

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Lead		**-0.197**	
Aluminum	*500000*	*443500*	*89*
Antimony		*0.442*	
Arsenic		*5.15*	
Barium		*-3.04*	
Beryllium		*-0.112*	
Boron		*1.94*	
Cadmium		*-2.39*	
Calcium	*500000*	*489700*	*98*
Chromium		*0.0249*	
Cobalt		*1.93*	
Copper		*6.48*	
Iron	*200000*	*192900*	*96*
Magnesium	*500000*	*503100*	*101*
Manganese		*-1.55*	
Molybdenum		*-1.39*	
Nickel		*-1.07*	
Potassium		*-153*	
Selenium		*-0.415*	
Silicon		*-29.1*	
Silver		*0.816*	
Sodium		*54.5*	
Strontium		*0.746*	
Sulfur		*-1.04*	
Thallium		*-0.223*	
Tin		*0.142*	
Titanium		*-6.40*	
Vanadium		*-2.82*	
Zinc		*-1.25*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Lab Sample ID: ICSAB 460-752508/11 Instrument ID: ICP6

Lab File ID: 011321.asc ICS Source: ME_ICSAB_D_00012

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Lead	**100**	**94.5**	**94**
Aluminum	*500000*	*440000*	*88*
Antimony	*100*	*93.1*	*93*
Arsenic	*100*	*105*	*105*
Barium	*100*	*92.4*	*92*
Beryllium	*50.0*	*49.0*	*98*
Boron	*1000*	*952*	*95*
Cadmium	*100*	*92.7*	*93*
Calcium	*500000*	*484400*	*97*
Chromium	*100*	*96.1*	*96*
Cobalt	*100*	*96.4*	*96*
Copper	*100*	*111*	*111*
Iron	*200000*	*189700*	*95*
Magnesium	*500000*	*495800*	*99*
Manganese	*100*	*97.8*	*98*
Molybdenum	*100*	*95.1*	*95*
Nickel	*100*	*93.5*	*94*
Potassium	*10000*	*10440*	*104*
Selenium	*100*	*100*	*100*
Silicon	*1000*	*984*	*98*
Silver	*100*	*101*	*101*
Sodium	*10000*	*10300*	*103*
Strontium	*100*	*97.2*	*97*
Sulfur		*5.58*	
Thallium	*100*	*90.8*	*91*
Tin	*100*	*95.0*	*95*
Titanium	*100*	*94.6*	*95*
Vanadium	*100*	*95.6*	*96*
Zinc	*100*	*93.7*	*94*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 460-225686-I-20-C MS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	521.2		2.4	U	500	104	75-125		6010D

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 460-225686-I-20-A PDS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Matrix: Water Concentration Units: ug/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	494.5		2.4	U	500	99	75-125		6010D

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: Lab ID: 460-225686-I-20-B DU

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Water Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Lead	10.0	2.4	U	2.4	U	NC		6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LINEAR RANGE CHECK STANDARD
METALS

Lab ID: LRC 460-752508/14

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

Sample Matrix: LCS Source: me_LRC_00051

Analyte	(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Lead	50000	50450		101	90	110		6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LINEAR RANGE CHECK STANDARD
METALS

Lab ID: LRC 460-752508/15

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

Sample Matrix: LCS Source:

Analyte	(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Lead		2.4	U					6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 460-752246/2-A

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

Sample Matrix: Water LCS Source: ME_LCS-int_00082

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Lead	500	485.8		97	80	120		6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-225686-I-20-A SD

SDG No:

Lab Name: Eurofins TestAmerica, Edison Job No: 460-226054-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Lead	2.4	U	11.8	U	NC		6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Edison Job Number: 460-226054-1

SDG Number:

Matrix: Water Instrument ID: ICP6

Method: 6010D MDL Date: 12/07/2019 10:45

Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Lead		10	2.35

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Edison Job Number: 460-226054-1

SDG Number:

Matrix: Water Instrument ID: ICP6

Method: 6010D XMDL Date: 12/07/2019 10:47

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Lead		10	2.35

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Edison Job No: 460-226054-1

SDG No.:

Instrument ID: ICP6 Date: 04/22/2020 13:21

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Lead		50000	6010D

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-752246/1-A	01/12/2021 11:18	752246		50	50
LCS 460-752246/2-A	01/12/2021 11:18	752246		50	50
460-225686-I-20-B DU	01/12/2021 11:18	752246		50	50
460-225686-I-20-C MS	01/12/2021 11:18	752246		50	50
460-226054-1	01/12/2021 11:18	752246		50	50
460-226054-2	01/12/2021 11:18	752246		50	50
460-226054-3	01/12/2021 11:18	752246		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Instrument ID: ICP6 Method: 6010D

Start Date: 01/13/2021 11:45 End Date: 01/13/2021 16:10

Lab Sample ID	D / F	Type	Time	Analytes																			
				Pb																			
ICIS 460-752508/1	1		11:45	X																			
IC 460-752508/2			11:49	X																			
IC 460-752508/3			11:53	X																			
IC 460-752508/4			11:57	X																			
IC 460-752508/5			12:01	X																			
IC 460-752508/6			12:05	X																			
ICV 460-752508/7	1		12:09	X																			
ICB 460-752508/8	1		12:13	X																			
ZZZZZZ			12:17																				
ICSA 460-752508/10	1		12:21	X																			
ICSAB 460-752508/11	1		12:25	X																			
ZZZZZZ			12:30																				
ZZZZZZ			12:34																				
LRC 460-752508/14	1		12:38	X																			
LRC 460-752508/15	1		12:43	X																			
CCV 460-752508/16	1		12:47	X																			
CCB 460-752508/17	1		12:51	X																			
MB 460-752246/1-A	1	T	13:17	X																			
LCS 460-752246/2-A	1	T	13:21	X																			
460-225686-I-20-B DU	1	T	13:25	X																			
ZZZZZZ			13:29																				
460-225686-I-20-A SD	5	T	13:33	X																			
460-225686-I-20-C MS	1	T	13:37	X																			
460-225686-I-20-A PDS	1	T	13:40	X																			
ZZZZZZ			13:44																				
ZZZZZZ			13:48																				
ZZZZZZ			13:52																				
CCV 460-752508/28	1		13:56	X																			
CCB 460-752508/29	1		14:00	X																			
ZZZZZZ			14:04																				
ZZZZZZ			14:08																				
ZZZZZZ			14:12																				
460-226054-1	1	T	14:16	X																			
460-226054-2	1	T	14:20	X																			
460-226054-3	1	T	14:24	X																			
ZZZZZZ			14:29																				
ZZZZZZ			14:33																				
ZZZZZZ			14:36																				
ZZZZZZ			14:40																				
CCV 460-752508/40	1		14:44	X																			
CCB 460-752508/41	1		14:48	X																			
ZZZZZZ			14:54																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Instrument ID: ICP6 Method: 6010D

Start Date: 01/13/2021 11:45 End Date: 01/13/2021 16:10

Lab Sample ID	D / F	Type	Time	Analytes																			
				Pb																			
ZZZZZZ			14:58																				
ZZZZZZ			15:02																				
ZZZZZZ			15:05																				
ZZZZZZ			15:09																				
ZZZZZZ			15:13																				
ZZZZZZ			15:18																				
ZZZZZZ			15:22																				
ZZZZZZ			15:26																				
ZZZZZZ			15:30																				
CCV 460-752508/52			15:34																				
CCB 460-752508/53			15:38																				
ZZZZZZ			15:42																				
ZZZZZZ			15:46																				
ZZZZZZ			15:50																				
ZZZZZZ			15:54																				
ZZZZZZ			15:58																				
ZZZZZZ			16:02																				
CCV 460-752508/60			16:06																				
CCB 460-752508/61			16:10																				

Prep Types

D = Dissolved

T = Total/NA

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.: Analysis Batch No.: 752508

ICP Instrument ID: ICP6 Start Date: 01/13/2021 End Date: 01/13/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Y	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 371.030	Q	Element	Q
ICIS 460-752508/1	11:45										
ICV 460-752508/7	12:09			98		99		101			
ICB 460-752508/8	12:13			102		103		103			
ICSA 460-752508/10	12:21			91		91		95			
ICSAB 460-752508/11	12:25			91		91		95			
LRC 460-752508/14	12:38			79		89		96			
LRC 460-752508/15	12:43			100		101		101			
CCV 460-752508/16	12:47			101		101		104			
CCB 460-752508/17	12:51			105		104		106			
MB 460-752246/1-A	13:17			101		102		103			
LCS 460-752246/2-A	13:21			103		104		104			
460-225686-I-20-B DU	13:25			99		101		104			
460-225686-I-20-A SD	13:33			98		98		100			
460-225686-I-20-C MS	13:37			97		99		103			
460-225686-I-20-A PDS	13:40			102		101		105			
CCV 460-752508/28	13:56			96		96		99			
CCB 460-752508/29	14:00			99		97		99			
460-226054-1	14:16			99		99		103			
460-226054-2	14:20			97		101		104			
460-226054-3	14:24			101		101		104			
CCV 460-752508/40	14:44			96		95		99			
CCB 460-752508/41	14:48			99		98		102			

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Edison Job No.: 460-226054-1

SDG No.:

Batch Number: 752246 Batch Start Date: 01/12/21 11:58 Batch Analyst: Siriwardena, Imesha B

Batch Method: 3010A Batch End Date: 01/12/21 16:58

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME_LCS-int 00082			
MB 460-752246/1		3010A, 6010D		50 mL	50 mL				
LCS 460-752246/2		3010A, 6010D		50 mL	50 mL	1 mL			
460-225686-I-20 DU		3010A, 6010D	T	50 mL	50 mL				
460-225686-I-20 MS		3010A, 6010D	T	50 mL	50 mL	1 mL			
460-226054-E-1	WW-7S-010721	3010A, 6010D	T	50 mL	50 mL				
460-226054-E-2	DUP-1_010721	3010A, 6010D	T	50 mL	50 mL				
460-226054-E-3	FB-1_010721	3010A, 6010D	T	50 mL	50 mL				

Batch Notes	
Batch Comment	1:1 HCl MPR 383
Temperature - Corrected - End	94 Corr Degrees C
Temperature - Corrected - Start	93 Corr Degrees C
Digestion End Time	01/12/2021 13:58
Digestion Start Time	01/12/2021 11:58
Digestion Unit ID	#3
Nitric Acid ID	0000258286
Pipette/Syringe/Dispenser ID	#43
Analyst ID - Spike Analyst	IS
Thermometer ID	Metal-5 (cf +3)
Digestion Tube/Cup ID	Lot # 2003055- 0253-AM (Environmental Express 100 mL. tube)
Temperature - Uncorrected - End	91 Uncorr Degrees C
Temperature - Uncorrected - Start	90 Uncorr Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record 485317

450-KOP

eurofins | Environment Testing TestAmerica

3.8 KOP-2

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Courtney Swidge	Site Contact: M. Solt	Date: 1-7-21	COC No: 485317
Company Name: LANGAN	Tel/Email: cswidge@langan.com	Lab Contact: P. Grieco	Carrier: Eurofins	1 of 1 COCs
Address: 1818 Market St. Suite 3300	Analysis Turnaround Time			Sampler:
City/State/Zip: Philadelphia, PA 19103	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone: 215-845-8400	TAT if different from Below per LANGAN MSA			Walk-in Client:
Fax: 215 845 8901	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: TEB Perkasie				Job / SDG No.: 226054
Site: TEB Perkasie				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCE, cis 1,2-DCE, 1,1-DCE 8260D	1,4-Dioxane SIM 8260D	Pb 6010D	Sample Specific Notes:
MW-7S-010721	1/7/21	1455	G	GW	5	N	N	X	X	X	1
DUP-1-010721	1/7/21	1455	G	GW	5	N	N	X	X	X	2
FB-1-010721	1/7/21	1440	G	FB	5	N	N	X	X	X	3
TRIP BLANK	1/6/21			TB	3	N	N	X	X		4

460-226054 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 2 2 1,2 1,4

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custom VOC = TCE, cis 1,2-DCE, 1,1-DCE

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company: LANGAN	Date/Time: 1/7/21 1510	Received by:	Company: TAKOP	Date/Time: 1/7/21 1510
Relinquished by:	Company: TAKOP	Date/Time: 1/7/21	Received by:	Company:	Date/Time: 1/7/21
Relinquished by:	Company: EAP	Date/Time: 1/7/21	Received in Laboratory by:	Company: TA 601	Date/Time: 1/7/21 2005

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 226654

Number of Coolers: 1 **IR Gun #** KOP2

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.8 °C	°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ **Date:** 1/7/21

Chain of Custody Record 485317

450-KOP

eurofins | Environment Testing TestAmerica

3.8 KOP-2

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Courtney Sawridge	Site Contact: M. Solt	Date: 1-7-21	COC No: 485317
Company Name: LANGAN	Tel/Email: csawridge@langan.com	Lab Contact: P. Grieco	Carrier: Eurofins	1 of 1 COCs
Address: 1818 Market St. Suite 3300	Analysis Turnaround Time			Sampler:
City/State/Zip: Philadelphia, PA 19103	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone: 215-845-8400	TAT if different from Below per LANGAN MSA			Walk-in Client:
Fax: 215 845 8901	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: TEB Perkasie				Job / SDG No.: 226054
Site: TEB Perkasie				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCE, cis 1,2-DCE, 1,1-DCE 8260D	1,4-Dioxane SIM 8260D	Pb 6010D	Sample Specific Notes:
MW-7S-010721	1/7/21	1455	G	GW	5	N	N	X	X	X	1
DUP-1-010721	1/7/21	1455	G	GW	5	N	N	X	X	X	2
FB-1-010721	1/7/21	1440	G	FB	5	N	N	X	X	X	3
TRIP BLANK	1/6/21			TB	3	N	N	X	X		4

460-226054 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1,2 1,2 1,4

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custom VOC = TCE, cis 1,2-DCE, 1,1-DCE

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
1		LANGAN	1/7/21 1510		TAKOP	1/7/21 1510
2	Relinquished by:	Company: TAKOP	Date/Time: 1/7/21	Received by:	Company:	Date/Time: 1/7/21 2000
3	Relinquished by:	Company: EAP	Date/Time: 1/7/21	Received in Laboratory by:	Company: TA601	Date/Time: 1/7/21 2005

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 226654

Number of Coolers: 1 **IR Gun #** KOP2

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.8 °C	°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ **Date:** 1/7/21

Login Sample Receipt Checklist

Client: Langan Engineering & Environmental Srvcs

Job Number: 460-226054-1

Login Number: 226054
List Number: 1
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	