

# MEMORANDUM

Project No. 090018

December 21, 2020

**To:** Kyle Parker, Washington State Department of Ecology

**cc:** Roy Prather, Beveridge & Diamond PC

**From:**



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**Re: New City Cleaners SVE Pilot Test Results**

This memorandum presents the results of the Soil Vapor Extraction (SVE) Pilot Test implemented at the New City Cleaners Site (Site) in Richland, Washington (Figure 1). The purpose of this pilot test was to determine if a full-scale SVE system would be a beneficial addition to the draft Cleanup Action Plan (dCAP; Aspect, 2020). SVE pilot testing activities at the Site were conducted under Agreed Order No. DE6558 (Agreed Order) between the Washington State Department of Ecology (Ecology) and HLH, Inc. Ecology concluded an SVE pilot test must be completed prior to finalizing the Cleanup Action Plan<sup>1</sup> (CAP) and required submittal of an SVE Pilot Test Work Plan (Work Plan). This memorandum summarizes the implementation and results of the Ecology-approved Work Plan<sup>2</sup>.

The Work Plan identified four objectives for SVE pilot testing:

- 1) **Evaluate mass removal.** Mass removed and removal rates will be estimated to determine if SVE technology is an effective treatment. Mass removed and removal rates will be calculated using SVE effluent air sample analytical data and field screening values paired with SVE flow rates.

<sup>1</sup> Washington State Department of Ecology (Ecology), 2020, Letter to Aspect Consulting Re: Ecology Comments on the Draft Remedial Investigation and Feasibility Study, Request for a Draft Cleanup Action Plan, April 2020.

<sup>2</sup> Aspect Consulting, LLC (Aspect), 2020, SVE Pilot Test Work Plan, New City Cleaners Site, Richland, Washington, June 4, 2020.

- 2) **Evaluate change in soil vapor concentrations.** Sub-slab soil vapor samples will be collected before SVE (baseline) and at the termination of the pilot test.
- 3) **Evaluate change in soil concentrations.** Comparing soil COC concentrations in baseline and post-SVE soil samples will support the evaluation of mass removal and the effectiveness at treating soil.
- 4) **SVE Design Parameters.** Demonstrating the presence of meaningful air flow, vacuum, and radius of influence in the subsurface is fundamental to evaluating SVE technology effectiveness. Operational data will be collected on vapor extraction flow rates at various levels of induced vacuum.

The SVE Pilot Test was implemented from July 29, 2020 to September 29, 2020 and the results were evaluated based on the objectives outlined above. The soil sampling conducted before and after SVE pilot testing determined there are no exceedances of proposed cleanup levels, and therefore no current basis for implementing SVE at the Site to address soil contamination under the building. Furthermore, mass removal by the SVE system was minimal. Therefore, the pilot test concludes SVE should be not be included in the Cleanup Action Plan.

## **Basis of Pilot Test Design**

The basis of pilot test design is exceedances of proposed cleanup levels of Site contaminants of concern (COCs) in vadose zone soils beneath the building, as shown in Figure 2, established by the Remedial Investigation Feasibility Study (RIFS) Report<sup>3</sup>. Soil compliance requires protection of soil to groundwater and soil to indoor air exposure pathways. The Site COCs in soil are: Tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-DCE), vinyl chloride (VC), and diesel-range petroleum hydrocarbons. The subset of Site COCs that apply to groundwater are PCE, TCE, cis-DCE, and VC, and the subset of soil COCs that exceed screening levels in soil gas are PCE, TCE, and VC. Indoor air concentrations are below proposed cleanup levels<sup>3</sup>. Pilot testing evaluated all COCs, but PCE was used as the primary COC for conclusions.

## **System Installation**

On August 27, 2020, a licensed driller installed two SVE wells (SVE-01 and SVE-02) inside the New City Cleaners (NCC) building, as shown on Figure 2; see boring logs in Attachment A. A limited-access hollow-stem auger rig was used to install the wells to 11 feet below ground surface (bgs). No soil samples were collected during SVE well installation. Soil cuttings indicated gravel with cobble fill extended to 3 feet bgs and was underlain by silt with sand to the bottom of the boring; this result is consistent with the **Fill Soil** and **Upper Silt Units** geologic units discussed in the Work Plan.

Two permanent sub-slab monitoring points (VP-08 and VP-09; Figure 2) were installed inside the NCC building on August 27, 2020, to supplement the existing soil vapor points VP-06 and VP-07 for pilot test monitoring.

The SVE pilot test system was installed on August 28, 2020 and started up on August 29, 2020. The installed blower was an AirTech A-197s, 3.42-horsepower blower rated for 80 cubic feet per

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<sup>3</sup>Aspect Consulting, LLC (Aspect), 2019, Remedial Investigation / Feasibility Study report, HLH/New City Cleaners, Richland, Washington, December 20, 2019.



minute at 73 inches of water under suction. We selected this blower based on vendor availability; as such, it is larger than the Work Plan's 1.0-horsepower recommendation. Due to the blower size, the system was operated using the dilution valve to target operational vacuums. Extracted vapor passed through a 1-gallon moisture knockout tank with particulate filter to remove entrained water and then discharged to the atmosphere. An As-Built Piping and Instrument Diagram (P&ID) is shown on Figure 3.

## **Step Test**

Step Testing occurred on August 29 to 30, 2020, at blower vacuum steps of 10, 20, 30, 40, and 60 inches of water on both SVE wells simultaneously to determine the optimal operational vacuum for the pilot test. Step test readings were collected on 15-minute intervals until stabilization was achieved (stabilization requires three consecutive readings within a range of +/- 15 percent). The results of step testing are included as Table 1. Based on the flow and vacuum observations during the step test, 60 inches of water was selected as the operational vacuum for pilot testing to maximize mass removal potential.

Operational data was collected during the step test and through weekly operation and maintenance (O&M) visits. The total airflow was relatively low, measuring 34 standard cubic feet per minute (SCFM) at a blower vacuum of 60 inches of water. Also, the threshold for significant vacuum influence (0.10 inches of water at a monitoring point) was not attained even at the closest sub-slab monitoring point, 5 feet from an SVE well. The step test data is presented in Figure 4

## **System Operation and Maintenance**

The following system operations data was collected during weekly O&M visits to evaluate pilot test objectives:

- Vacuum at SVE-01 and SVE-02 laterals with a gauge and at each of the soil gas monitoring points (VP-06 through VP-09) with a micromanometer
- Extraction flow rate with a flowmeter upstream of the dilution valve
- Velocity with an anemometer from each SVE lateral and in the combined lateral (upstream of the blower)
- Pressure and temperature in the blower effluent

Operational monitoring also included analytical sampling of the extracted vapors and field screening of volatile organic compounds (VOCs) to calculate mass removal rate. The extracted air at the SVE wellheads and combined effluent were field screened during weekly Site visits with a photoionization detector (PID) and PCE-specific Gastec tubes. Extracted vapor analytical samples were collected at each SVE lateral at the beginning, middle, and end of the pilot test (for a total of 6 samples) and analyzed for chlorinated volatile organic compounds (CVOCs) via Environmental Protection Agency (EPA) method TO-15.

Condensate collection in the moisture knockout tank was monitored during weekly visits. No condensate accumulated over the 8-week pilot test. Weekly O&M Visit Data can be found in Attachment B, and analytical data from the SVE well laterals are shown in Table 2. SVE-01 results indicate a reduction in concentration of COCs in soil gas throughout the Pilot Test, therefore the

utility of SVE-01 long-term is unlikely. SVE-02 results indicate this well continues to pull contaminant mass during both the startup and termination of the pilot test, possibly due to proximity to the water table, as discussed below.

## **SVE Pilot Test Results**

### ***Pilot Test Emissions***

Analytical data from the SVE well laterals was collected to ensure compliance with monitoring and discharge requirements of the Benton County Clean Air Agency and Controls for New Sources of Toxic Air Pollutants regulations (Chapter 173-460 WAC). Analytical results were paired with operation run time and weekly recorded flow rates to calculate emissions, as shown in Table 3. Throughout the 8-week pilot test, approximately 0.3 pounds of PCE was removed from the subsurface by the SVE system. As there was no pretreatment or condensate collection, it is assumed that this 0.3 pounds of PCE was discharged to the atmosphere; this is less than the de minimis value of 1.3 pounds per year to initiate the need for registration with the Benton County Clean Air Agency.

### ***Sub-Slab Soil Vapor Concentrations***

Baseline sub-slab soil vapor samples were collected on July 27, 2020, from monitoring points VP-06 through VP-09 and analyzed for soil gas COCs by EPA Method TO-15. Baseline analytical results from all four vapor monitoring points exceed PCE and TCE sub-slab soil gas screening levels (Table 4).

Performance monitoring sub-slab soil vapor samples were collected on September 29, 2020, from monitoring points (VP-06 through VP-09) and analyzed for soil gas COCs by EPA method TO-15. These samples were collected roughly 30 hours after the SVE system was shut down and at the end of the pilot test. Analytical results were less than the PCE and TCE sub-slab soil gas screening levels at all vapor monitoring points (Table 4). These soil gas analytical results for baseline and performance monitoring are also shown in Figure 6.

These results indicate the low vacuum observed beneath the slab was sufficient to induce pore volume exchange at these sub-slab monitoring points and significantly reduce soil gas concentrations.

### ***Soil Concentrations***

Soil samples were collected from underneath the building to establish pre- and post-SVE Pilot Test soil concentrations. Four direct-push borings were advanced at a 50-degree angle to approximately 12 feet bgs (17 to 18 feet of borehole length) utilizing continuous soil sampling<sup>4</sup>. Soil was field-screened by vapor headspace using a PID. One sample from each boring with elevated PID readings was selected for laboratory analysis of soil COCs by EPA method 8260.

Baseline soil sampling occurred on July 28, 2020, before the SVE system was installed. There were no elevated PID responses during field screening, and samples were collected from the vadose zone and close to the water table. No COCs were detected above their respective proposed cleanup levels during baseline soil sampling and only trichloroethylene (TCE) and cis-1,2-dichloroethylene

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<sup>4</sup> Soil sample depths in the Tables and Figures are based on depth below ground surface. The length along the angled borehole is used in the sample naming convention in the boring logs and laboratory analytical reports, in Appendices A and C, respectively.

(cDCE) were detected. Soil boring logs with field screening results can be found in Attachment A, and baseline soil analytical results are shown in Table 5 and Figure 5.

Performance monitoring soil sampling occurred on October 5, 2020, one week after the SVE Pilot Test system was shut down. The borings were completed to replicate the baseline borings and were offset approximately 3 feet from the baseline locations. PID responses were identified from the deepest soil samples for borings AB-03B and AB-04B during field screening. One sample was collected from each boring with elevated PID readings, or close to the water table in absence of PID response. Samples were submitted for laboratory analysis of soil COCs by EPA method 8260 and diesel-range petroleum hydrocarbons by method NWTPH-Dx.

Performance monitoring analytical results indicate no COCs were detected above their proposed cleanup levels beneath the building and only cDCE was detected. Soil boring logs with field screening results can be found in Attachment A, and performance soil analytical results in Table 5 and Figure 5.

## **Conclusions**

Aspect implemented the SVE Pilot Test from July 29, 2020 through September 28, 2020 and in accordance with the Ecology-approved Work Plan. The purpose of this pilot test was to determine if a full-scale SVE system would be a beneficial addition to the dCAP (Aspect, 2020). This was evaluated via mass removal calculations, change in soil vapor concentrations, and change in soil concentrations.

### **Mass Removal**

The SVE mass removal in the **Upper Silt Unit** was limited, even under a relatively high applied vacuum (60 inches of water). As a result, the estimated mass removal over the 8-week pilot test was only 0.3 pounds of PCE.

### **Change in Soil Vapor Concentrations**

Significant decreases in sub-slab soil vapor concentrations at all four locations indicate the SVE system was effective at inducing pore volume exchanges in the space immediately beneath the slab. However, soil vapor intrusion to indoor air is not a complete pathway at the Site<sup>3</sup>.

### **Change in Soil Concentrations**

All eight soil sample results are less than proposed cleanup levels. These results are updated soil conditions relative to the 2000 and 2009 investigation results that were used as the basis of the PCE soil exceedances in the RIFS<sup>3</sup> and the basis of pilot testing. Therefore, either the 2000 and 2009 investigations are not representative of current conditions, or the soil borings did not intersect locations of residual soil contamination. The limited mass removal is consistent with the lack of exceedances in soil.

Further, PID responses were elevated near the water table for all occurrences<sup>5</sup>, indicating the PID responses are likely associated with contaminated groundwater. The SVE pilot testing results demonstrate SVE technology applied to the **Upper Silt Unit** results in minimal mass removal. Further, the recent soil sampling results did not exceed proposed cleanup levels and provide no

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<sup>5</sup> PID response will be considered >1 ppm.

basis for implementing SVE at the Site to address soil contamination under the building. Therefore, based on the results of SVE pilot testing, a full-scale SVE system should not be added to the CAP.

## **Limitations**

Work for this project was performed for the HLH, Inc. c/o Beveridge & Diamond P.C. and Landye Bennett Blumstein, LLP (Client), and this memorandum was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This memorandum does not represent a legal opinion. No other warranty, expressed or implied, is made.

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## **Attachments**

Table 1 – Step Test Data

Table 2 – SVE Well Analytical Results

Table 3 – Removal / Emissions Calculations

Table 4 – Sub-Slab Soil Gas Analytical Results

Table 5 – Soil Analytical Results

Figure 1 – Site Location Map

Figure 2 – SVE Pilot Test – Site Plan

Figure 3 – Process and Instrumentation Diagram – As-Built

Figure 4 – SVE Operational Data

Figure 5 – SVE Pilot Test – Soil Gas Analytical Results

Figure 6 – SVE Pilot Test – Soil Gas Results

Attachment A – Soil Boring and Well Construction Logs

Attachment B – Weekly O&M Visit Field Data

Attachment C – Laboratory Analytical Reports

Attachment D – Photo Log

Attachment E – Report Limitations and Guidelines for Use

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# **TABLES**

**Table 1. Step Test Data**

FINAL

Personnel: BMG

Project No. 090018, New City Cleaners, Richland WA

Date: 7/29-30/20

SVE Test Steps	Elapsed Time	Time (24-hour)	Well Monitoring				Blower Monitoring						GasTec (ppm)	Vacuum Monitoring			
			SVE-1 Vacuum	SVE-1 Velocity	SVE-2 Vacuum	SVE-2 Velocity	Blower Vacuum	Combined Velocity	Flow <sup>2</sup>	Temp	Pressure	PID		VP-06	VP-07	VP-08	VP-09
			in. w.c. <sup>1</sup>	ft/s	in. w.c.	ft/s	in. w.c.	ft/s	SCFM	degrees F	in. w.c.	ppm		in. w.c.	in. w.c.	in. w.c.	in. w.c.
		14:40:00 PM											Baseline ΔP	0.000	0.000	0.000	0.000
10" Water Vacuum	0:10	14:50	6	1050	4	900	10	775	-- <sup>3</sup>	125	2	1.3		--	0.001	--	0.001
	0:20	15:00	6	620	4	1350	10	860	--	125	2	1.3		0.003	--	0	--
	0:35	15:15	6	395	4	230	10	260	--	128	2	1.1		--	0.001		0
	0:50	15:30	6	142	4	105	10	245	--	128	2	1.3		0.003	--	0	--
	1:05	15:45	5.5	125	3	130	10	190	--	128	2	0.8		--	0.002	--	0
20" Water Vacuum	0:15	16:15	16	170	14	180	20	173/205	--	132	1	0.9		--	0.003	--	0.003
	0:30	16:30	16	160	14	170	20	220	--	133	1	0.8		0	--	0.003	--
	0:45	16:45	17	153	14	160	20	203	--	132	1	0.8		--	0.005	--	0.004
	1:00	17:00	16	149	14	154	20	180	--	132	1	0.6		0.001	--	0.001	--
	1:15	17:15	16.5	171	14	161	20	195	--	133	1	0.5		--	0.003	--	0.003
30" Water Vacuum	0:15	17:45	27	398	24	363	30	375	<25	138	1	0.5		--	0.007	--	0.008
	0:30	18:00	27	389	24	385	30	340	--	138	1	0.6		0.002	--	0.003	--
	0:45	18:15	27	360	24	358	30	410	--	138	1	0.6		--	0.007	--	0.006
	1:00	18:30	27	380	24	365	30	370	--	138	1	0.6		0.002	--	0.006	--
	1:15	18:45	27	375	24	373	30	373	--	137	1	0.6		--	0.006	--	0.007
40" Water Vacuum	0:10	19:10	37	890	35	529	40	829	30	142	4	0.6		--	0.012	--	0.027
	0:20	19:20	37	905	35	545	40	1080	--	142	4	0.8		0.01	--	0.022	--
	0:30	19:30	37	810	34	531	40	1130	--	140	4	0.8		--	0.012	--	0.03
	0:40	19:40	37	880	34	545	40	1030	--	140	4	0.7		0.015	--	0.023	--
	0:50	19:50	37	820	35	533	40	1005	--	140	4	0.8		--	0.013	--	0.029
60" Water Vacuum	0:10	6:55	58	920	56	730	60	1480	34	126	<1	1.1	0.3	--	0.016	--	0.045
	0:20	7:10	58	977	56	786	60	1740	--	134	<1	1.8	0.2	0.017	--	0.031	--
	0:35	7:25	58	969	56	695	60	1660	--	138	<1	2.5	0.4	--	0.021		0.052
	0:50	7:40	58	855	56	770	60	1680	--	138	<1	2.7	0.2	0.01	--	0.033	--
	1:05	7:55	58	1051	56	781	60	1730	--	138	<1	3.5	0.3	--	0.022	--	0.055

**Notes:**

- 1) w.c. = inches of water
- 2) The flow meter brought for the pilot test was not responsive during the step test. Another flow meter was installed during the 8/20/20 O&M visit. and a micro scale step test was repeated to collect data on flow for each applied vacuum. The results of this additional step test are displayed in this table.
- 3) -- = not measured

## Table 2. SVE Well Analytical Results

Project No. 090018, New City Cleaners, Richland, Washington

FINAL

Location			SVE-01			SVE-02		
Date			07/30/2020	08/20/2020	09/28/2020	07/30/2020	08/20/2020	09/28/2020
Analyte	Unit	Deep Soil Gas Screening Level						
<b>Site Contaminates of Concern</b>								
Tetrachloroethene (PCE)	ug/m3	320	<b>4200</b>	< 290 U	< 280 U	<b>2800</b>	<b>1500</b>	<b>2700</b>
Trichloroethene (TCE)	ug/m3	12	<b>680</b>	<b>38</b>	<b>16</b>	<b>2400</b>	<b>270</b>	<b>370</b>
Vinyl Chloride	ug/m3	9.4	< 11 U	< 11 U	< 10 U	< 11 U	< 11 U	< 11 U

### Notes:

**Bold** - detected

Blue Shaded - Detected result exceeded Sub-Slab Soil Gas screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

E - Result exceeded calibration range. Result usable for qualitative analysis of analyte presence, but numeric value should not be included in quantitative analysis.

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**Table 2**

SVE Pilot Test Results

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# Table 3. Removal / Emissions Calculations

FINAL

Project No. 090018, New City Cleaners, Richland, Washington

## Combined Effluent PCE Removal and Emissions Data

Date	Total Operational Hours	PID Screening <sup>1</sup>	PCE Concentration <sup>2</sup>	Velocity	Flow Rate <sup>3</sup>	Total Removal / Emissions
	(hrs)	(ppm)	(mg/m <sup>3</sup> )	(FPM)	(CFM)	(lbs)
7/30/2020	2	19.3	3.5	1730	38	0.00
8/6/2020	169	19.3	3.5	1561	34	0.07
8/13/2020	337	23.4	3.5	1654	36	0.15
8/20/2020	507	13.2	0.9	1760	38	0.18
8/26/2020	657	12.35	0.9	1720	34	0.19
9/3/2020	846	10.7	0.9	1847	35	0.22
9/10/2020	1010	10.9	1.5	1772	35	0.25
9/17/2020	1176	11.3	1.5	1783	35	0.28
9/24/2020	1342	7.1	1.5	1751	35	0.31
9/28/2020	1440	8	1.5	1430	35	0.33

### Notes:

- 1) PID screening results are from the combined SVE lateral (SVE-01 and SVE-02) during O&M visits. PID screening results are not used in the Removal Calculation.
- 2) Effluent PCE Concentration was calculated as the average of analytical results from SVE-01 and SVE-02 for the collected samples applied to the appropriate time interval.
- 3) From startup through 8/20/2020, flow rate is calculated from the velocity and pipe interior cross sectional area. After 8/20/2020 flow rate is measured from the replaced flow meter.

hrs = hours

ppm = parts per million

mg/m<sup>3</sup> = milligram per cubic meter

FPM = feet per minute

CFM = cubic feet per minute

lbs = pounds



## Table 4. Sub-Slab Soil Gas Analytical Results

Project No. 090018, New City Cleaners, Richland, Washington

FINAL

Location			VP-06				VP-07			
Date			07/14/2016	11/17/2016	07/27/2020	09/29/2020	07/14/2016	11/17/2016	07/27/2020	09/29/2020
Analyte	Unit	Sub-Slab Soil Gas Screening Level								
<b>Site Contaminates of Concern</b>										
Tetrachloroethene (PCE)	ug/m3	320	<b>630</b>	<b>730</b>	<b>380</b>	< 38 U	<b>3300</b>	<b>1100</b>	<b>670</b>	< 39 U
Trichloroethene (TCE)	ug/m3	12	<b>83</b>	<b>120</b>	<b>80</b>	<b>1.4</b>	<b>2000</b>	<b>1200</b>	<b>67</b>	<b>0.97</b>
Vinyl Chloride	ug/m3	9.4	< 6.4 U	< 6.4 U	< 2.1 U	< 1.4 U	< 6.4 U	< 6.4 U	< 2.2 U	< 1.5 U

Location			VP-08		VP-09	
Date			07/27/2020	09/29/2020	07/27/2020	09/29/2020
Analyte	Unit	Sub-Slab Soil Gas Screening Level				
<b>Site Contaminates of Concern</b>						
Tetrachloroethene (PCE)	ug/m3	320	<b>8700 E</b>	<b>48</b>	<b>1800</b>	< 39 U
Trichloroethene (TCE)	ug/m3	12	<b>1000</b>	<b>3.7</b>	<b>59</b>	<b>1.7</b>
Vinyl Chloride	ug/m3	9.4	< 10 U	< 1.5 U	< 4.3 U	< 1.5 U

### Notes:

**Bold** - detected

Blue Shaded - Detected result exceeded Sub-Slab soil gas screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

E - Result exceeded calibration range. Result usable for qualitative analysis of analyte presence, but numeric value not quantitative for analysis.

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Table 4

SVE Pilot Test Results

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## Table 5. Soil Analytical Results

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FINAL

			Location	AB-01A	AB-01B	AB-02A	AB-02B	AB-03A	AB-03B	AB-04A	AB-04B
			Date	07/28/2020	10/05/2020	07/28/2020	10/05/2020	07/28/2020	10/05/2020	07/28/2020	10/05/2020
			Depth (ft bgs) <sup>1</sup>	5.8	10.0	10.3	10.6	9.6	10.6	9.0	10.6
Analyte	Unit	Proposed Cleanup Level									
<b>TPHs</b>											
Diesel Range Organics	mg/kg	2000	--	< 64 U	--	<b>93</b>	--	<b>230</b>	--	< 62 U	
<b>VOCs</b>											
Tetrachloroethene (PCE)	mg/kg	0.05	< 0.0019 U	< 0.0027 U	< 0.0021 U	< 0.0020 U	< 0.0021 U	< 0.0021 U	< 0.0021 U	< 0.0019 U	< 0.0020 U
Trichloroethene (TCE)	mg/kg	0.03	< 0.0019 U	< 0.0027 U	< 0.0021 U	< 0.0020 U	< 0.0021 U	< 0.0021 U	< 0.0021 U	<b>0.0019</b>	< 0.0020 U
cis-1,2-dichloroethylene (DCE)	mg/kg	160	< 0.0029 U	< 0.0040 U	<b>0.0053</b>	< 0.0030 U	< 0.0032 U	<b>0.0041</b>	<b>0.0029</b>	<b>0.0055</b>	
Vinyl Chloride	mg/kg	0.67	< 0.0019 UJ	< 0.0027 U	< 0.0021 UJ	< 0.0020 U	< 0.0021 UJ	< 0.0021 U	< 0.0021 U	< 0.0019 UJ	< 0.0020 U

### Notes:

1) Depth corresponds to sample depth below ground surface, not distance along the angled boring as sample names in the boring logs and laboratory reports.

**Bold** - detected

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

# FIGURES



**SITE LOCATION**

### Site Location Map

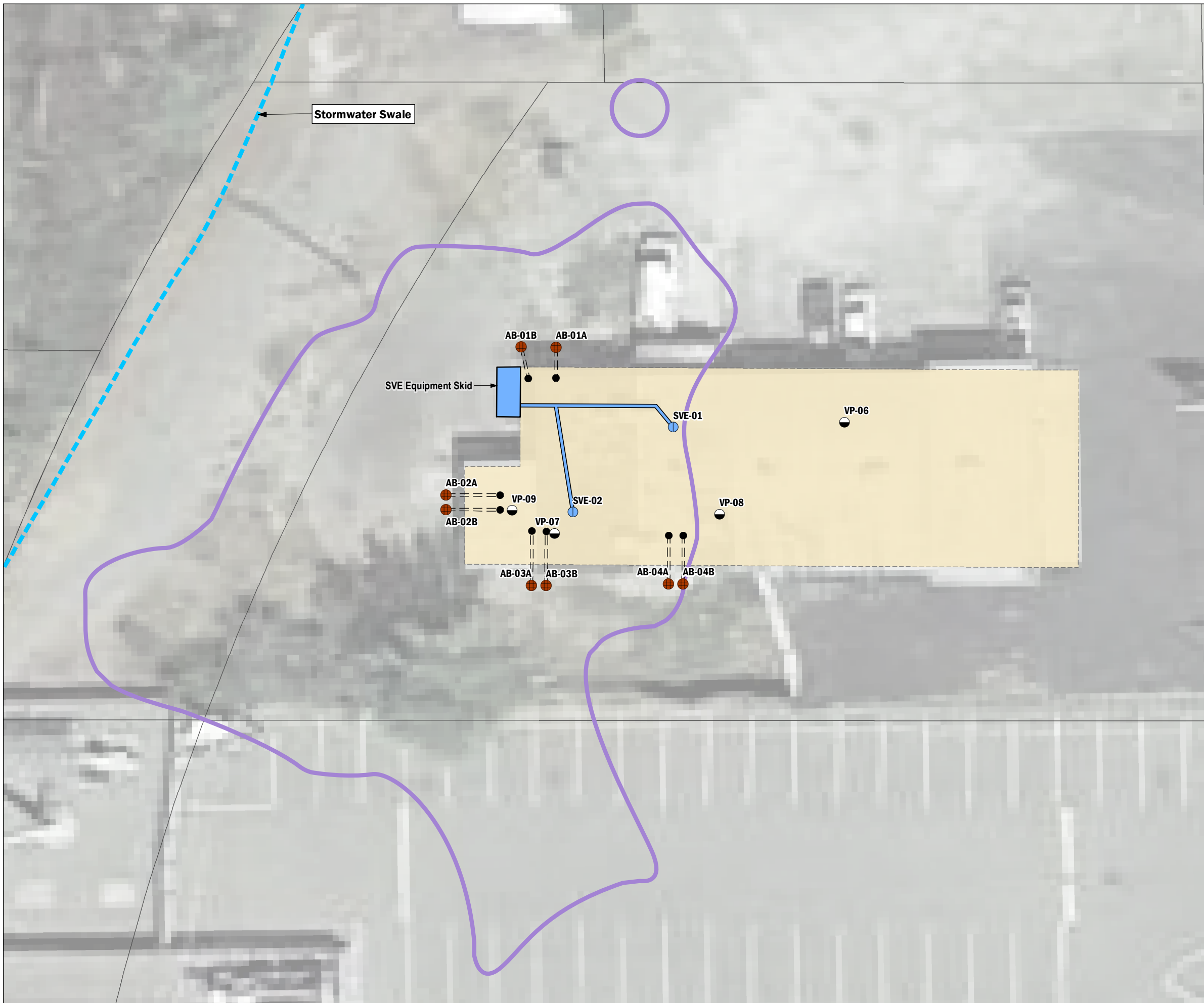
SVE Pilot Test Results  
 New City Cleaners  
 Richland, Washington









	OCT-2020	BY: AO / TDR	FIGURE NO. <b>1</b>
	PROJECT NO. 090018	REVISED BY: ---	



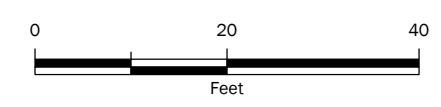
GIS Print: Properties: S:\NewCityCleaners\Delivered\SVE Pilot Test Results\04 Site Location Map.mxd | Coordinate System: NAD 1983 StatePlane Washington North FIPS 4901 Feet | Date Saved: 2020-10-27 | User: trullen | Print Date: 2020-10-27






-  Angled Soil Boring (Advanced at 50-degrees off vertical)
-  Soil Gas Probe
-  Soil Vapor Extraction Well Location
-  SVE Pipe Lateral
-  Inferred Extent of PCE Above Proposed Soil Cleanup Level (RIFS, 2019)
-  Stormwater Swale
-  New City Cleaners
-  Benton County Parcel

Note: Site features are approximate.

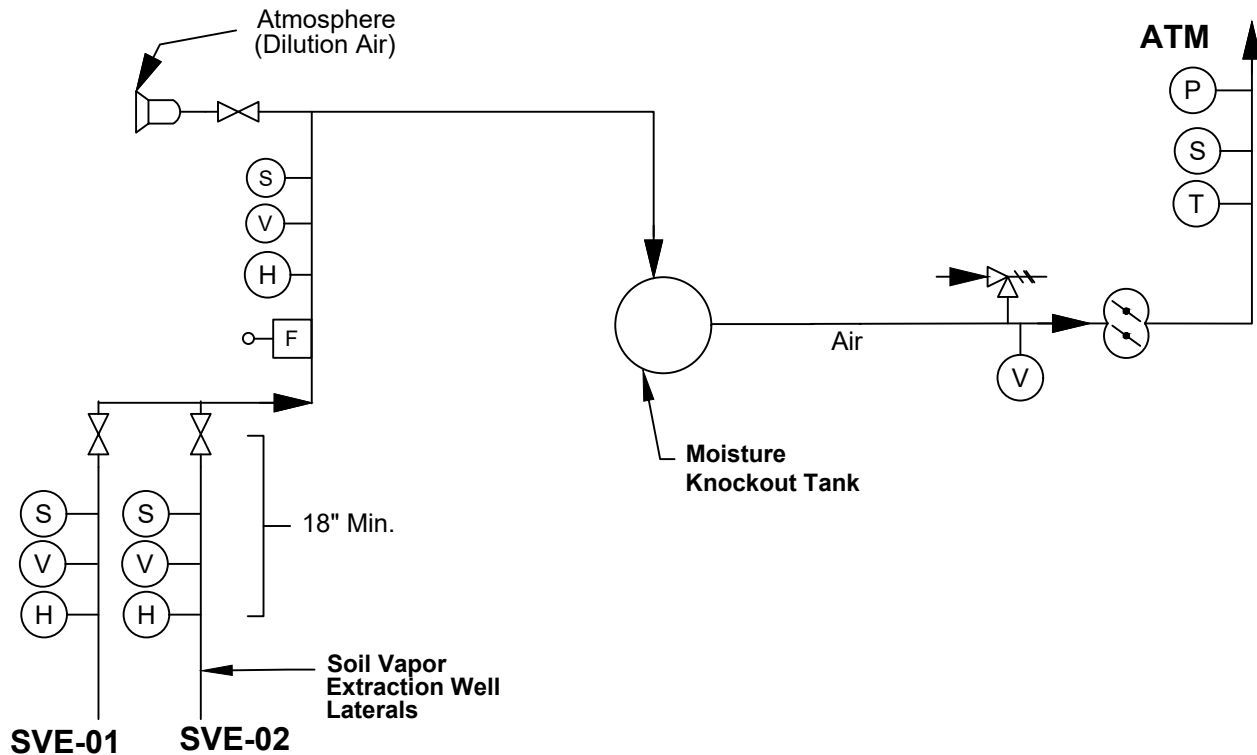


### SVE Pilot Test - Site Plan

SVE Pilot Test Results  
New City Cleaners  
Richland, Washington

	OCT-2020	BY: BG / TDR	FIGURE NO. <b>2</b>
	PROJECT NO. 090018	REVISED BY: ---	

GIS Path: T:\projects\_8\NewCityCleaners\Deliverables\SVE Pilot Test Results\02 SVE Pilot Test - Site Plan.mxd | Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet | Date Saved: 2020-10-27 | User: tullen | Print Date: 2020-10-27



Symbol	Component	Specifications
	Sample Port	Hose Barb with Ball Valve
	Thermometer	0-200° F
	Vacuum Gauge	0-60" Water
	Pressure Gauge	0-60" Water
	Hole with Threaded Plug	1/4" Threaded Brass Plug Tap-and-Die
	Flowmeter or Rotameter	Extraction Air 25-125 scfm (Combined)
	Vacuum Relief Valve to Match Blower	
	Gate Valve	
	Regenerative Blower	125 scfm @ 20" Water Vacuum Rotron EN404 or equiv.
	Inlet Silencer / Filter	
	Piping	2" PVC from wells, UV Resistant

### Equipment Notes

1. Blower motor shall have thermal overload protection.
2. Discharge stack shall be a minimum 2" diameter and discharge above adjacent roof-line. Effluent gas temperature not to exceed piping temperature limit.
3. Knockout tank shall have internal 100-micron particulate filter and provide max. 6 inches of water column pressure drop at 120 scfm.
4. The blower shall be single phase and compatible with 120V power supply.

### Piping Notes

1. Soil vapor extraction piping shall be 2-inch diameter DR 17 HDPE or schedule 40 PVC.
2. Piping shall be installed in accordance with manufacturer's specifications. Flexible pipe bends shall have a minimum radius six times the pipe diameter. Angled fittings shall be sweep bends.
3. Soil vapor extraction piping shall be installed to slope towards the well at a minimum 1% slope with no sags.
4. Piping shall be protected from physical damage or excessive temperature during asphalt or concrete patching.

### Equipment Layout and Enclosure Notes

1. Equipment shall be provided on a skid capable of being positioned by the contractor using a forklift or built on a custom poured concrete slab.
2. Equipment shall be placed in such a manner to provide easy access to all equipment, controls, valves, and gauges.
3. Piping shall be connected to the vapor extraction manifolds provided by the equipment supplier.
4. Effluent stack shall be provided by the equipment supplier and extend to the building roof and be rain protected.
5. Placement and access to motors and controls shall be in accordance with applicable codes.

#### Key

HDPE = High Density Polyethylene  
PVC = Polyvinyl Chloride  
SCH = Schedule  
ATM - To Atmosphere

## Process and Instrumentation Diagram - As Built

SVE Pilot Test Results  
New City Cleaners  
Richland, Washington

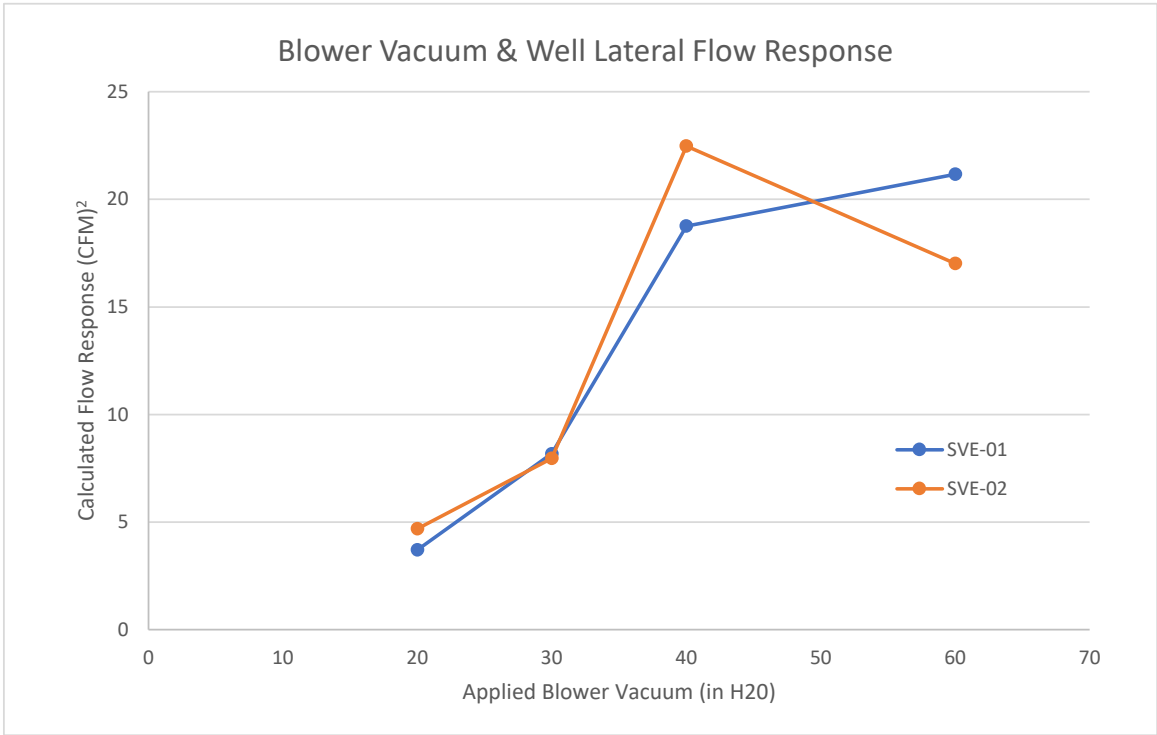
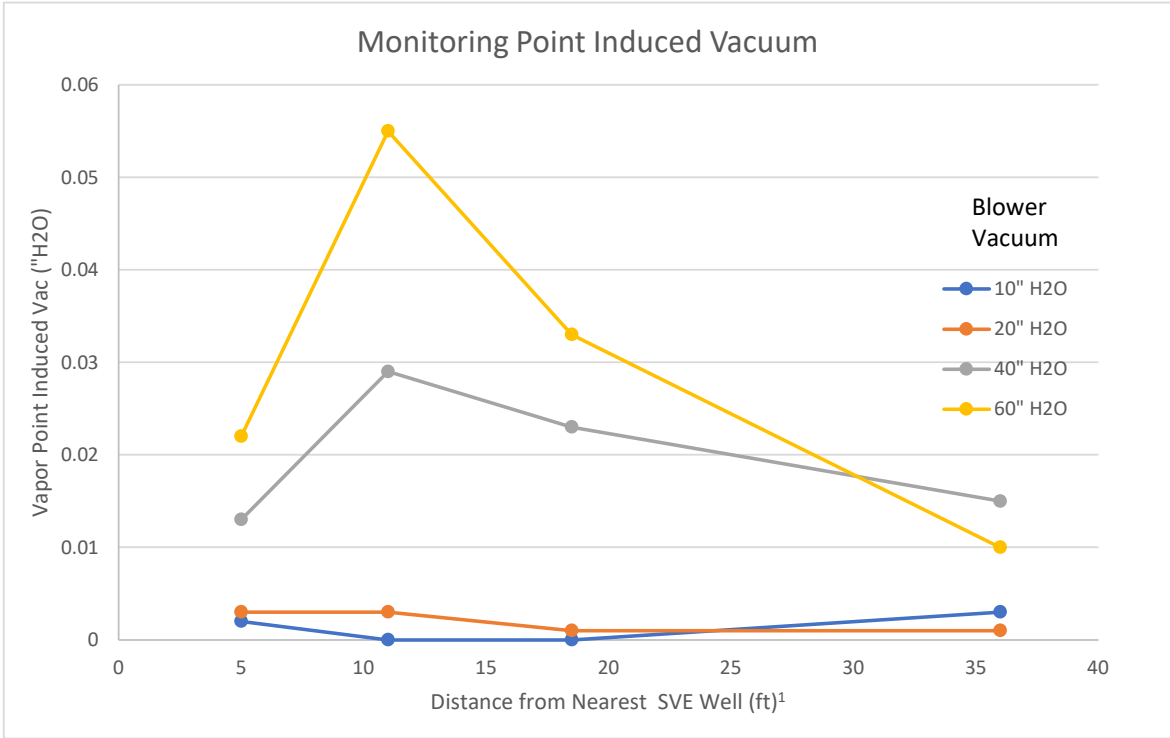


Oct-2020  
PROJECT NO.  
090018

BY:  
BMG/CMV  
REVISED BY:  
-

FIGURE NO.

3



**Notes:**

- 1) Measurements taken while both SVE-01 and SVE-02 were in use; vacuum influence includes both wells.
- 2) Flow calculated by multiplying measured velocity (feet per minute) by pipe cross sectional area (square feet).

Key        Inches of water = " H2O  
            CFM = Cubic Feet Per Minute

**Figure 4**  
**SVE Operational Data**



Angled Soil Boring (Advanced at 50-degrees off vertical)  
 Inferred Extent of PCE Above Proposed Soil Cleanup Level (RIFS, 2019)  
 Stormwater Swale  
 New City Cleaners  
 Benton County Parcel

Sample ID → **AB-04A** July 28, 2020 ← Sample Date  
 Approximate Location of Sample → ● = ●  
 Analyte Sampled and concentration → PCE: < 1.9 U (9.0 ft)  
 Sample Depth → TCE: **1.9** (9.0 ft)  
 cis-1,2-DCE: **2.9** (9.0 ft)  
 VC: < 1.9 UJ (9.0 ft)

**BOLD, RED TEXT**  
 indicate concentrations exceeded MTCA A soil screening level.

PCE = Tetrachloroethene  
 TCE = Trichloroethene  
 cis-1,2-DCE = cis-1,2-Dichloroethene  
 VC = Vinyl Chloride  
 DRO = Diesel Range Organics  
 J = Estimated value  
 U = Not detected at or above laboratory reporting limit  
 BOLD = Detection above reporting limit.  
 Units = microgram/kilogram (ug/kg)

0 20 40  
 Feet

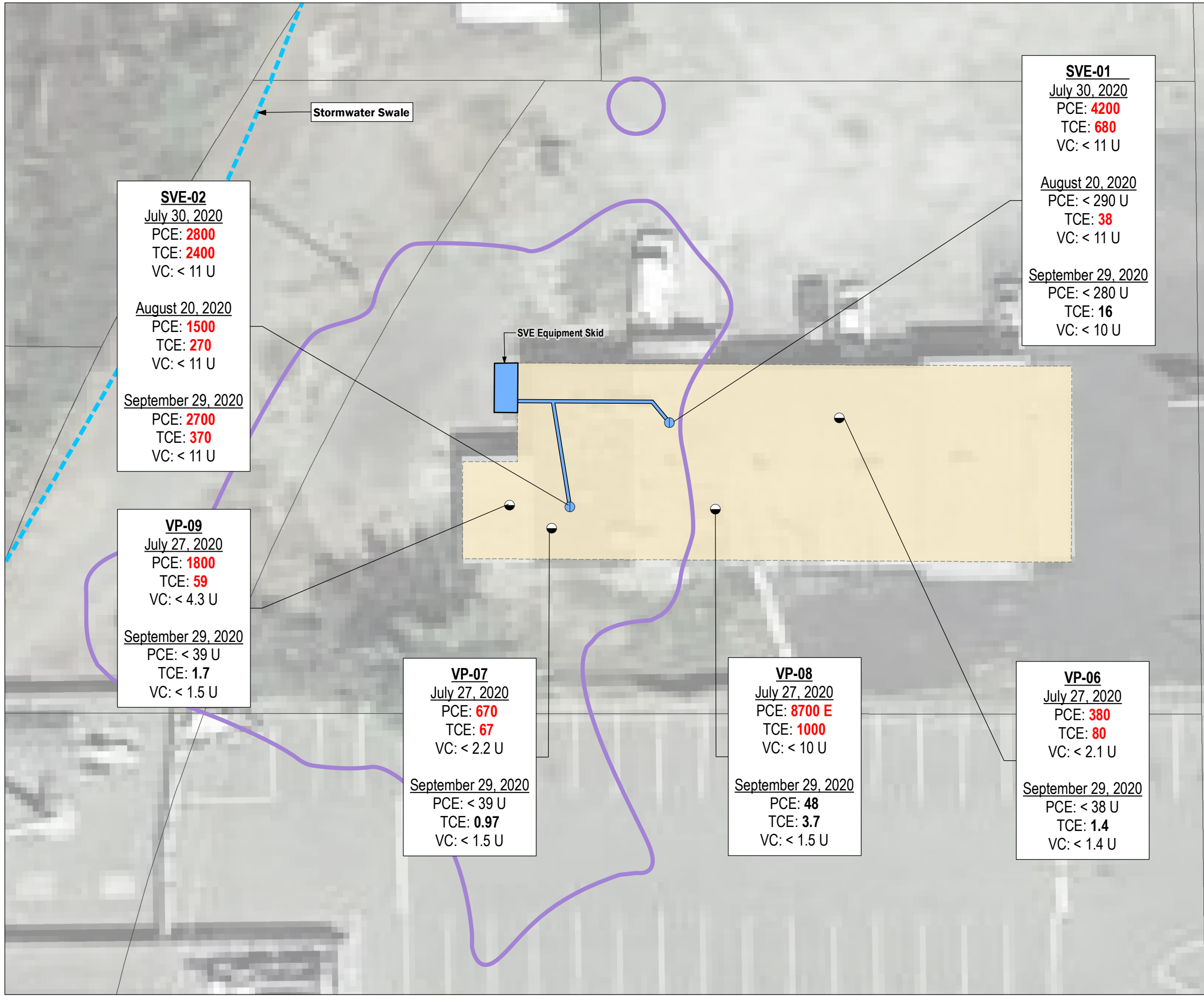
**SVE Pilot Test -  
Soil Analytical Results**

SVE Pilot Test Results  
New City Cleaners  
Richland, Washington

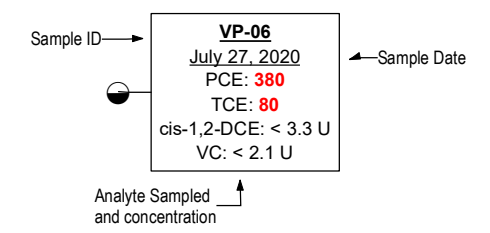
	NOV-2020	BY: BG / TDR	FIGURE NO. <b>5</b>
	PROJECT NO. 090018	REVISED BY: ---	

GIS Path: T:\projects\_8\NewCityCleaners\Deliverables\Site Test Results\06 SVE Pilot Test - Soil Analytical Results\_V3.mxd | Coordinate System: NAD 83\3 StatePlane Washington North FIPS 4601 Feet | Date Saved: 2020-11-04 | User: tulien | Print Date: 2020-11-04



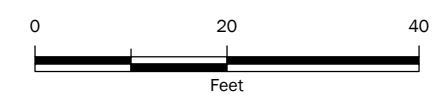


- Soil Gas Probe
- Soil Vapor Extraction Well Location
- SVE Pipe Lateral
- ~ Inferred Extent of PCE Above Proposed Soil Cleanup Level (RIFS, 2019)
- ☒ Stormwater Swale
- New City Cleaners
- ⊕ Benton County Parcel



**BOLD, RED TEXT** indicate concentrations exceeded MTCA Sub-Slab soil gas screening level for VP Probes and exceeded MTCA Sub-Slab Deep screening level for SVE Wells.

PCE = Tetrachloroethene  
 TCE = Trichloroethene  
 VC = Vinyl Chloride  
 J = Estimated value  
 U = Not detected at or above laboratory reporting limit  
 E = Result exceeded calibration range  
 BOLD = Detection above reporting limit.  
 Units = microgram/cubic meter (ug/m<sup>3</sup>)



STEVENS DR

### SVE Pilot Test - Soil Gas Results

SVE Pilot Test Results  
 New City Cleaners  
 Richland, Washington

	OCT-2020	BY: BG / TDR	FIGURE NO. <b>6</b>
	PROJECT NO. 090018	REVISED BY: ---	

GIS Path: T:\projects\_8\NewCityCleaners\Delivered\SVE Pilot Test Results\07 SVE Pilot Test - Soil Gas Results.mxd | Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet | Date Saved: 2020-10-28 | User: trulen | Print Date: 2020-10-28

## **ATTACHMENT A**

### **Soil Boring and Well Construction Logs**

Coarse-Grained Soils - More than 50% <sup>1</sup> Retained on No. 200 Sieve	Gravels - More than 50% <sup>1</sup> of Coarse Fraction Retained on No. 4 Sieve	≤ 5% Fines	<b>GW</b>	Well-graded GRAVEL Well-graded GRAVEL WITH SAND
			<b>GP</b>	Poorly-graded GRAVEL Poorly-graded GRAVEL WITH SAND
			<b>GM</b>	SILTY GRAVEL SILTY GRAVEL WITH SAND
	Sands - 50% <sup>1</sup> or More of Coarse Fraction Passes No. 4 Sieve	≥ 15% Fines	<b>GC</b>	CLAYEY GRAVEL CLAYEY GRAVEL WITH SAND
			<b>SW</b>	Well-graded SAND Well-graded SAND WITH GRAVEL
			<b>SP</b>	Poorly-graded SAND Poorly-graded SAND WITH GRAVEL
Fine-Grained Soils - 50% <sup>1</sup> or More Passes No. 200 Sieve	Sands - 50% <sup>1</sup> or More of Coarse Fraction Passes No. 4 Sieve	≤ 5% Fines	<b>SM</b>	SILTY SAND SILTY SAND WITH GRAVEL
			<b>SC</b>	CLAYEY SAND CLAYEY SAND WITH GRAVEL
			<b>ML</b>	SILT SANDY or GRAVELLY SILT SILT WITH SAND SILT WITH GRAVEL
	Silt and Clays Liquid Limit Less than 50%	≥ 15% Fines	<b>CL</b>	LEAN CLAY SANDY or GRAVELLY LEAN CLAY LEAN CLAY WITH SAND LEAN CLAY WITH GRAVEL
			<b>OL</b>	ORGANIC SILT SANDY or GRAVELLY ORGANIC SILT ORGANIC SILT WITH SAND ORGANIC SILT WITH GRAVEL
			<b>MH</b>	ELASTIC SILT SANDY or GRAVELLY ELASTIC SILT ELASTIC SILT WITH SAND ELASTIC SILT WITH GRAVEL
Silt and Clays Liquid Limit 50% or More	≥ 15% Fines	<b>CH</b>	FAT CLAY SANDY or GRAVELLY FAT CLAY FAT CLAY WITH SAND FAT CLAY WITH GRAVEL	
		<b>OH</b>	ORGANIC CLAY SANDY or GRAVELLY ORGANIC CLAY ORGANIC CLAY WITH SAND ORGANIC CLAY WITH GRAVEL	
		<b>PT</b>	PEAT and other mostly organic soils	

MC	=	Natural Moisture Content	<b>GEOTECHNICAL LAB TESTS</b>
PS	=	Particle Size Distribution	
FC	=	Fines Content (% < 0.075 mm)	
GH	=	Hydrometer Test	
AL	=	Atterberg Limits	
C	=	Consolidation Test	
Str	=	Strength Test	
OC	=	Organic Content (% Loss by Ignition)	
Comp	=	Proctor Test	
K	=	Hydraulic Conductivity Test	
SG	=	Specific Gravity Test	

<b>Organic Chemicals</b>			<b>CHEMICAL LAB TESTS</b>
BTEX	=	Benzene, Toluene, Ethylbenzene, Xylenes	
TPH-Dx	=	Diesel and Oil-Range Petroleum Hydrocarbons	
TPH-G	=	Gasoline-Range Petroleum Hydrocarbons	
VOCs	=	Volatile Organic Compounds	
SVOCs	=	Semi-Volatile Organic Compounds	
PAHs	=	Polycyclic Aromatic Hydrocarbon Compounds	
PCBs	=	Polychlorinated Biphenyls	
<b>Metals</b>			
RCRA8	=	As, Ba, Cd, Cr, Pb, Hg, Se, Ag, (d = dissolved, t = total)	
MTCA5	=	As, Cd, Cr, Hg, Pb (d = dissolved, t = total)	
PP-13	=	Ag, As, Be, Cd, Cr, Cu, Hg, Ni, Pb, Sb, Se, Tl, Zn (d=dissolved, t=total)	

PID	=	Photoionization Detector	<b>FIELD TESTS</b>
Sheen	=	Oil Sheen Test	
SPT <sup>2</sup>	=	Standard Penetration Test	
NSPT	=	Non-Standard Penetration Test	
DCPT	=	Dynamic Cone Penetration Test	

<b>Descriptive Term</b>	<b>Size Range and Sieve Number</b>	<b>COMPONENT DEFINITIONS</b>
Boulders	= Larger than 12 inches	
Cobbles	= 3 inches to 12 inches	
Coarse Gravel	= 3 inches to 3/4 inches	
Fine Gravel	= 3/4 inches to No. 4 (4.75 mm)	
Coarse Sand	= No. 4 (4.75 mm) to No. 10 (2.00 mm)	
Medium Sand	= No. 10 (2.00 mm) to No. 40 (0.425 mm)	
Fine Sand	= No. 40 (0.425 mm) to No. 200 (0.075 mm)	
Silt and Clay	= Smaller than No. 200 (0.075 mm)	

<b>% by Weight</b>	<b>Modifier</b>	<b>% by Weight</b>	<b>Modifier</b>	<b>ESTIMATED<sup>1</sup> PERCENTAGE</b>
<1	=	Subtrace	15 to 25 = Little	
1 to <5	=	Trace	30 to 45 = Some	
5 to 10	=	Few	>50 = Mostly	

Dry	=	Absence of moisture, dusty, dry to the touch	<b>MOISTURE CONTENT</b>
Slightly Moist	=	Perceptible moisture	
Moist	=	Damp but no visible water	
Very Moist	=	Water visible but not free draining	
Wet	=	Visible free water, usually from below water table	

<b>Non-Cohesive or Coarse-Grained Soils</b>			<b>RELATIVE DENSITY</b>
<b>Density<sup>3</sup></b>	<b>SPT<sup>2</sup> Blows/Foot</b>	<b>Penetration with 1/2" Diameter Rod</b>	
Very Loose	= 0 to 4	≥ 2'	
Loose	= 5 to 10	1' to 2'	
Medium Dense	= 11 to 30	3" to 1'	
Dense	= 31 to 50	1" to 3"	
Very Dense	= > 50	< 1"	

<b>Cohesive or Fine-Grained Soils</b>			<b>CONSISTENCY</b>
<b>Consistency<sup>3</sup></b>	<b>SPT<sup>2</sup> Blows/Foot</b>	<b>Manual Test</b>	
Very Soft	= 0 to 1	Penetrated >1" easily by thumb. Extrudes between thumb & fingers.	
Soft	= 2 to 4	Penetrated 1/4" to 1" easily by thumb. Easily molded.	
Medium Stiff	= 5 to 8	Penetrated >1/4" with effort by thumb. Molded with strong pressure.	
Stiff	= 9 to 15	Indented ~1/4" with effort by thumb.	
Very Stiff	= 16 to 30	Indented easily by thumbnail.	
Hard	= > 30	Indented with difficulty by thumbnail.	

<b>Observed and Distinct</b>			<b>Observed and Gradual</b>	<b>Inferred</b>
_____				

	<b>Exploration Log Key</b>
---	----------------------------

"WITH SILT" or "WITH CLAY" means 5 to 15% silt and clay, denoted by a "-" in the group name; e.g., SP-SM • "SILTY" or "CLAYEY" means >15% silt and clay • "WITH SAND" or "WITH GRAVEL" means 15 to 30% sand and gravel. • "SANDY" or "GRAVELLY" means >30% sand and gravel. • "Well-graded" means approximately equal amounts of fine to coarse grain sizes • "Poorly graded" means unequal amounts of grain sizes • Group names separated by "/" means soil contains layers of the two soil types; e.g., SM/ML.

Soils were described and identified in the field in general accordance with the methods described in ASTM D2488. Where indicated in the log, soils were classified using ASTM D2487 or other laboratory tests as appropriate. Refer to the report accompanying these exploration logs for details.

1. Estimated or measured percentage by dry weight  
 2. (SPT) Standard Penetration Test (ASTM D1586)  
 3. Determined by SPT, DCPT (ASTM STP399) or other field methods. See report text for details.



# New City Cleaners - 090018

Project Address & Site Specific Location

747 Stevens Dr, Richland, West end of north side of bldg

# Environmental Exploration Log

Coordinates (SPN/NA83ft)

E:2032700 N:-260210 (est)

Exploration Number

## AB-01A

Contractor

Holt Services

Equipment

Geoprobe 7822DT direct push rig

Sampling Method

Percussion hammer

Ground Surface Elev. (NAVD88)

1150' (est)

Operator

Micheal Running

Exploration Method(s)

Direct push

Work Start/Completion Dates

7/28/2020

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

No Water Encountered

Length (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Length (ft)
		Hole collapsed upon rod removal			PID=0.0 Sheen=None Odor=None		<b>FILL</b> GRAVEL WITH SILT (GP-GM); dry, gray; fine to coarse angular gravel; trace fine to medium sand	
5					PID=0.0 Sheen=None Odor=None		<b>ALLUVIUM</b> SILT (ML); slightly moist, brown; medium plasticity, slow dilatancy; trace fine sand	5
	1145			AB-01A-9.0	PID=0.1 Sheen=None Odor=None			
10					PID=0.6 Sheen=None Solvent-like odor=Very slight			10
					PID=0.0 Sheen=Very slight Odor=None		Becomes gray and moist	
15					PID=0.1 Sheen=Very slight Odor=None			15
	1140				PID=0.2 Sheen=None Odor=None			
							Bottom of exploration at 11 ft. bgs.	
							Note: Boring plunges to south @ 40° below horiz.	

**Legend**

- No Soil Sample Recovery
- Continuous core 1.85" ID

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: BMG  
Approved by: MVA 10/29/2020

**Exploration Log**  
**AB-01A**

Sheet 1 of 1



# New City Cleaners - 090018

# Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN/NA83 ft)

Exploration Number

747 Stevens Dr, Richland, West end of north side of bldg, west of AB-01A

E:2032700 N:-260210 (est)

**AB-01B**

**Contractor**  
Holt Services

**Equipment**  
Geoprobe 7822DT direct push rig

**Sampling Method**  
Percussion hammer

**Ground Surface Elev. (NAVD88)**  
1150' (est)

**Operator**  
Michael Running

**Exploration Method(s)**  
Direct push

**Work Start/Completion Dates**  
10/5/2020

**Top of Casing Elev. (NAVD88)**  
NA

**Depth to Water (Below GS)**  
No Water Encountered

Length (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Length (ft)
		Boring backfilled with hydrated bentonite chips			PID=0.0 Sheen=None Odor=None		<b>FILL</b> GRAVEL WITH SILT (GP-GM); slightly moist, light gray; fine to coarse angular gravel	
		Hole collapsed upon rod removal						
5					PID=0.2 Sheen=None Odor=None		<b>ALLUVIUM</b> SILT (ML); slightly moist, brown; low plasticity	5
	1145				PID=0.0 Sheen=None Odor=None			
					PID=0.0 Sheen=None Odor=None		Becomes moist, some iron-oxide staining	
10								10
					PID=0.0 Sheen=None Odor=None			
				AB-01B-15.5	PID=0.9 Sheen=None Odor=None		Becomes very moist and gray	
15					PID=0.0 Sheen=None Odor=None			15
	1140							
							Bottom of exploration at 11ft. bgs.	
							Note: Boring plunges to south @ 40° below horiz.	

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\090018 NEW CITY CLEANERS.GPJ October 29, 2020

<p><b>Legend</b></p> <ul style="list-style-type: none"> <li> No Soil Sample Recovery</li> <li> Continuous core 1.85" ID</li> <li> Grab sample</li> </ul>	<p><b>Water Level</b></p> <p>No Water Encountered</p>	<p>See Exploration Log Key for explanation of symbols</p> <p>Logged by: BBC Approved by: MVA 10/29/2020</p>	<p><b>Exploration Log</b> <b>AB-01B</b> Sheet 1 of 1</p>
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### New City Cleaners - 090018

Project Address & Site Specific Location

747 Stevens Dr, Richland, Middle of west side of bldg

### Environmental Exploration Log

Coordinates (SPN/NA83ft)

E:2032700 N:-260240 (est)

Exploration Number

**AB-02A**

**Contractor**  
Holt Services

**Equipment**  
Geoprobe 7822DT direct push rig

**Sampling Method**  
Percussion hammer

**Ground Surface Elev. (NAVD88)**  
1150' (est)

**Operator**  
Micheal Running

**Exploration Method(s)**  
Direct push

**Work Start/Completion Dates**  
7/28/2020

**Top of Casing Elev. (NAVD88)**  
NA

**Depth to Water (Below GS)**  
No Water Encountered

Length (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Length (ft)
		Hole collapsed upon rod removal			PID=0.0 Sheen=None Odor=None		<b>FILL</b> GRAVEL (GW); dry, gray; fine to coarse rounded gravel with few percent cobbles; trace fine to coarse sand; trace silt	
5					PID=0.0 Sheen=None Odor=None		<b>ALLUVIUM</b> SILT (ML); dry, gray; low plasticity, slow dilatancy; trace fine sand	5
	1145				PID=0.4 Sheen=Very slight Odor=None		SILT WITH GRAVEL (ML); moist, brown; non-plastic; fine to coarse rounded gravel	
10					PID=0.5 Sheen=Very slight Odor=None			10
	1140			AB-02A-16.0	PID=0.4 Sheen=Very slight Odor=None		SILT (ML); moist, gray; medium plasticity; trace fine sand; slow dilatancy	
15					PID=6.0 Sheen=Very slight Odor=Slight			15
							Bottom of exploration at 11 ft. bgs.	
							Note: Boring plunges to east @ 40° below horiz.	

**Legend**

- No Soil Sample Recovery
- Continuous core 1.85" ID

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: BMG  
Approved by: MVA 10/29/2020

**Exploration Log**  
**AB-02A**

Sheet 1 of 1



# New City Cleaners - 090018

# Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN/NA83ft)

Exploration Number

747 Stevens Dr, Richland, Middle of west side of bldg, south of AB-02A

E:2032700 N:-260250 (est)

## AB-02B

**Contractor**  
Holt Services

**Equipment**  
Geoprobe 7822DT direct push rig

**Sampling Method**  
Percussion hammer

**Ground Surface Elev. (NAVD88)**  
1150' (est)

**Operator**  
Michael Running

**Exploration Method(s)**  
Direct push

**Work Start/Completion Dates**  
10/5/2020

**Top of Casing Elev. (NAVD88)**  
NA

**Depth to Water (Below GS)**  
No Water Encountered

Length (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Length (ft)
		Boring backfilled with hydrated bentonite chips			PID=0.1 Sheen=None Odor=None		<b>FILL</b> SILT (ML); dry, light gray; non-plastic, trace fine to coarse gravel	
		Hole collapsed upon rod removal			PID=0.1 Sheen=None Odor=None		<b>ALLUVIUM</b> SILTY SAND (SM); dry, brown; fine sand	
5					PID=0.0 Sheen=None Odor=None		SILT (ML); slightly moist, light brown; low plasticity Becomes moist	5
	1145				PID=0.0 Sheen=None Odor=None		Trace root debris	
10					PID=0.1 Sheen=None Odor=None		Some iron-oxide staining	
					PID=1.0 Sheen=None Odor=None		Becomes very moist and gray	
15	1140			AB-02B-16.5	PID=36.2 Sheen=None Odor=None			15
							Bottom of exploration at 11 ft. bgs. Note: Boring plunges to east @ 40° below horiz.	

NEW STANDARD EXPLORATION LOG TEMPLATE P:\GINT\PROJECTS\090018 NEW CITY CLEANERS.GPJ October 29, 2020

**Legend**

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: BBC  
Approved by: MVA 10/29/2020

**Exploration Log**  
**AB-02B**



# New City Cleaners - 090018

# Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN/NA83 ft)

Exploration Number

747 Stevens Dr, Richland, West end of south side of bldg

E:2032700 N:-260260 (est)

**AB-03A**

**Contractor**  
Holt Services

**Equipment**  
Geoprobe 7822DT direct push rig

**Sampling Method**  
Percussion hammer

**Ground Surface Elev. (NAVD88)**  
1150' (est)

**Operator**  
Micheal Running

**Exploration Method(s)**  
Direct push

**Work Start/Completion Dates**  
7/28/2020

**Top of Casing Elev. (NAVD88)**  
NA

**Depth to Water (Below GS)**  
No Water Encountered

Length (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Length (ft)
		Hole collapsed upon rod removal			PID=0.1 Sheen=None Odor=None		<b>FILL</b> GRAVEL WITH SILT AND SAND (GP-GM); dry, gray silt, red sand; fine angular gravel; fine sand	
5					PID=0.0 Sheen=None Odor=None		<b>ALLUVIUM</b> SILT (ML); slightly moist, brown; medium plasticity; trace fine sand; slow dilatancy	5
	1145				PID=0.0 Sheen=None Odor=None			
10					PID=0.0 Sheen=None Odor=None		Becomes moist	
	1140			AB-03A-15.0	PID=0.1 Sheen=None Odor=Very slight			
15					PID=0.3 Sheen=None Odor=Very slight			15
					PID=0.0 Sheen=None Odor=Very slight			
							Bottom of exploration at 11 ft. bgs. Note: Boring plunges to north @ 40° below horiz.	

**Legend**

- No Soil Sample Recovery
- Continuous core 1.85" ID

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: BMG  
Approved by: MVA 10/29/2020

**Exploration Log**  
**AB-03A**

Sheet 1 of 1





# New City Cleaners - 090018

# Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN/NA83 ft)

Exploration Number

747 Stevens Dr, Richland, West end of south side of bldg, east of AB-03A

E:2032700 N:-260260 (est)

## AB-03B

**Contractor**  
Holt Services

**Equipment**  
Geoprobe 7822DT direct push rig

**Sampling Method**  
Percussion hammer

**Ground Surface Elev. (NAVD88)**  
1150' (est)

**Operator**  
Michael Running

**Exploration Method(s)**  
Direct push

**Work Start/Completion Dates**  
10/5/2020

**Top of Casing Elev. (NAVD88)**  
NA

**Depth to Water (Below GS)**  
No Water Encountered

Length (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Length (ft)
		Boring backfilled with hydrated bentonite chips					<b>FILL</b> GRAVEL WITH SILT (GP-GM); dry, gray; fine to coarse gravel	
		Hole collapsed upon rod removal			PID=0.0 Sheen=None Odor=None		<b>ALLUVIUM</b> SILT (ML); slightly moist, light brown; low plasticity	
5					PID=0.0 Sheen=None Odor=None		Becomes darker brown	5
	1145				PID=0.0 Sheen=None Odor=None		Trace root debris	
10					PID=0.0 Sheen=None Odor=None		Iron-oxide staining and root debris	10
15	1140			AB-03B-16.5	PID=467 Sheen=None Odor=Slight		Becomes moist, dark gray, no iron-oxide or root debris Becomes light brown, with iron-oxide staining	15
							Bottom of exploration at 11 ft. bgs. Note: Boring plunges to north @ 40° below horiz.	

**Legend**

- No Soil Sample Recovery
- Continuous core 1.85" ID
- Grab sample

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: BBC  
Approved by: MVA 10/29/2020

**Exploration Log**  
**AB-03B**

Sheet 1 of 1



### New City Cleaners - 090018

Project Address & Site Specific Location

747 Stevens Dr, Richland, Middle of south side of bldg

### Environmental Exploration Log

Coordinates (SPN/NA83 ft)

E:2032700 N:-260260 (est)

Exploration Number

## AB-04A

**Contractor**  
Holt Services

**Equipment**  
Geoprobe 7822DT direct push rig

**Sampling Method**  
Percussion hammer

**Ground Surface Elev. (NAVD88)**  
1150' (est)

**Operator**  
Micheal Running

**Exploration Method(s)**  
Direct push

**Work Start/Completion Dates**  
7/28/2020

**Top of Casing Elev. (NAVD88)**  
NA

**Depth to Water (Below GS)**  
No Water Encountered

Length (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Length (ft)
0							<b>FILL</b> GRAVEL WITH SILT AND SAND (GW-GM); dry, gray; fine to coarse rounded gravel; fine to coarse sand	
5		Hole collapsed upon rod removal			Odor=None  PID=0.0 Sheen=None		<b>ALLUVIUM</b> SILT (ML); slightly moist, brown; medium plasticity silt; trace fine sand; slow dilatancy	5
10	1145				PID=0.0 Sheen=None Odor=None		Becomes moist, and gray/brown	10
15	1140			AB-04A-14.0	PID=0.1 Sheen=Very slight Odor=None		Becomes brown	15
					PID=0.0 Sheen=Very slight Odor=None		Iron-oxide staining	
							Bottom of exploration at 11 ft. bgs.	
							Note: Boring plunges to north @ 40° below horiz.	

**Legend**

- No Soil Sample Recovery
- Continuous core 1.85" ID

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: BMG  
Approved by: MVA 10/29/2020

**Exploration Log**  
**AB-04A**

Sheet 1 of 1



# New City Cleaners - 090018

# Environmental Exploration Log

Project Address & Site Specific Location

Coordinates (SPN/NA83ft)

Exploration Number

747 Stevens Dr, Richland, Middle of south side of bldg, east of AB-04A

E:2032700 N:-260260 (est)

## AB-04B

**Contractor**  
Holt Services

**Equipment**  
Geoprobe 7822DT direct push rig

**Sampling Method**  
Percussion hammer

**Ground Surface Elev. (NAVD88)**  
1150' (est)

**Operator**  
Michael Running

**Exploration Method(s)**  
Direct push

**Work Start/Completion Dates**  
10/5/2020

**Top of Casing Elev. (NAVD88)**  
NA

**Depth to Water (Below GS)**  
No Water Encountered

Length (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Length (ft)
		Boring backfilled with hydrated bentonite chips			PID=0.4 Sheen=None Odor=None		<b>FILL</b> GRAVEL WITH SILT (GP-GM); dry, light gray; fine to coarse gravel, with root debris	
		Hole collapsed upon rod removal						
5					PID=2.8 Sheen=None Odor=None		<b>ALLUVIUM</b> SILT WITH SAND (ML); slightly moist, light brown; low plasticity silt, fine sand	5
							SILT (ML); moist, light brown; low plasticity	
10	1145				PID=0.5 Sheen=None Odor=None			10
							SILTY SAND WITH GRAVEL (SM); moist, brown; fine to medium sand, rounded fine to coarse gravel	
15	1140				PID=4.1 Sheen=None Odor=None		SILT (ML); moist, light brown; low plasticity, with iron-oxide staining	15
				AB-04B-16.5			Bottom of exploration at 11 ft. bgs. Note: Boring plunges to north @ 40° below horiz.	

**Legend**

- No Soil Sample Recovery
- Continuous core 1.85" ID

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: BBC  
Approved by: MVA 10/29/2020

**Exploration Log**  
**AB-04B**

Sheet 1 of 1



# New City Cleaners - 090018

# Monitoring Well Log

Project Address & Site Specific Location

Coordinates (SPN/NA83ft)

Exploration Number

747 Stevens Dr, Richland, Inside bldg, south of northwest door

E:2032700 N:-260230 (est)

**SVE-01**

Contractor

Equipment

Sampling Method

Ground Surface Elev. (NAVD88)

Ecology Well Tag No.  
BLY 072

Geologic Drill

Mini Cat Track

Grab

1150' (est)

Operator

Exploration Method(s)  
6.5" OD X 4" ID  
Hollow-stem Augers

Work Start/Completion Dates

Top of Casing Elev. (NAVD88)

Depth to Water (Below GS)

Blaine Gibson

7/27/2020

NA

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
							<b>FILL</b> GRAVEL WITH SAND AND COBBLES (GP); dry, gray; fine sand; fine to coarse rounded gravel; cobbles to 6" diameter; trace silt	
		3/8" hydrated bentonite chips						
5		# 10/20 Silica sand filter pack			PID=0.8		<b>ALLUVIUM</b> SILT WITH SAND (ML); slightly moist, gray / brown; medium plasticity, slow dilatancy; with fine sand	5
		2" diameter Sch. 40 PVC 0.020-inch slotted well screen			PID=0.5		Becomes very moist	
10					PID=0.4		Bottom of exploration at 11 ft. bgs.	10
							Note: Soils descriptions based on samples of cuttings and from drill action	
15								15

**Legend**

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: BMG  
Approved by: MVA 10/29/2020

**Exploration Log SVE-01**

Sheet 1 of 1



# New City Cleaners - 090018

Project Address & Site Specific Location

747 Stevens Dr, Richland, Inside bldg, southwest corner

# Monitoring Well Log

Coordinates (SPN/NA83ft)

E:2032700 N:-260250 (est)

Exploration Number

**SVE-02**

Ecology Well Tag No. BLY 073

Contractor

Geologic Drill

Equipment

Mini Cat Track

Sampling Method

Grab

Ground Surface Elev. (NAVD88)

1150' (est)

Operator

Blaine Gibson

Exploration Method(s)

6.5" OD X 4" ID Hollow-stem Augers

Work Start/Completion Dates

7/27/2020

Top of Casing Elev. (NAVD88)

NA

Depth to Water (Below GS)

No Water Encountered

Depth (feet)	Elev. (feet)	Exploration Completion and Notes	Sample Type/ID	Analytical Sample Number & Lab Test(s)	Field Tests	Material Type	Description	Depth (ft)
		<p>3/8" hydrated bentonite chips</p> <p># 10/20 Silica sand filter pack</p> <p>2" diameter Sch. 40 PVC 0.020-inch slotted well screen</p>					<p><b>FILL</b></p> <p>GRAVEL WITH COBBLES (GW); dry, gray; fine to coarse, rounded gravel; 10% cobbles up to 8 inch diameter; 10% fine to coarse sand; trace silt</p> <hr/> <p><b>ALLUVIUM</b></p> <p>SILT WITH SAND (ML); slightly moist, gray and brown; medium plasticity; fine sand; slow dilatancy</p> <p>Becomes very moist</p>	
5					PID=0.2			5
10					PID=0.0			10
15							<p>Bottom of exploration at 11 ft. bgs.</p> <p>Note: Soils descriptions based on samples of cuttings and from drill action</p>	15

**Legend**

Sample Type

Water Level

No Water Encountered

See Exploration Log Key for explanation of symbols

Logged by: BMG  
Approved by: MVA 10/29/2020

**Exploration Log SVE-02**

Sheet 1 of 1

## **ATTACHMENT B**

### **Weekly O&M Visit Field Data**

Time of Arrival: \_\_\_\_\_ 0656 \_\_\_\_\_

Check in at Front (Y)

System Running (Y)

Condensate Collected: \_\_\_\_\_ 0 \_\_\_\_\_ % of collection pot

Visual Equipment Inspection Notes:

System at -60" upon arrival

Cleaned Intake Filter

	<b>Vacuum</b>	<b>Velocity</b>	<b>GasTec</b>	<b>PID</b>	<b>Temp.</b>	<b>Pressure</b>
<b>Well</b>	(in Water)	(fpm)	(ppm)	(ppm)	(F)	(psi)
SVE-01	55	1022	0	5.2		
SVE-02	55	932	0.5	6.1		
VP-06	0.016		0			
VP-07	0.015		0			
VP-08	0.04		0			
VP-09	0.079		0			
Combined, Pre Blower	60	1751		7.1		
Combined, Blower Out			0.2	3	120	0

Flow Meter reading 35 scfm

Time offsite: \_\_\_\_\_ 0815 \_\_\_\_\_

PID (amb) = 0.1 ppm

Cal (100) = 100.9 ppm

Equipment Notes:

\* For GasTec to get 100ml but the arrow on the pully in alignment with the white arrow on the plunger.

Keep tubes in the fridge; can be used up to 4 times if non-Detect

\* For PID, Check calibration with the Cal Gas provided but no need to re-cal unless greater than 5% off.

Call me if you need to calibrate. Don't seal PID to gas container due to pump.

\* Anemometer was working pretty well at high flow rates, give it a couple minutes to narrow down on the value.

\* Re-zero digital micromanometer if more than a few decimal points off.

Only use digital micromanometer on VPs.

Time of Arrival: \_\_\_\_\_ 0700 \_\_\_\_\_

Check in at Front (Y)

System Running (Y)

Condensate Collected: \_\_\_\_\_ 1/2 cup \_\_\_\_\_ of collection pot

Visual Equipment Inspection Notes:

System Vac at 62" water, decreased to 60" water

	<b>Vacuum</b>	<b>Velocity</b>	<b>GasTec</b>	<b>PID</b>	<b>Temp.</b>	<b>Pressure</b>
<b>Well</b>	(in Water)	(fpm)	(ppm)	(ppm)	(F)	(psi)
SVE-01	55	946	0	8.2		
SVE-02	55	937	0	11		
VP-06	0.015		0			
VP-07	0.015		0			
VP-08	0.035		0			
VP-09	0.078		0			
Combined, Pre Blower	60	1783		11.3		
Combined, Blower Out			0	4	118	0

Flow Meter reading 35 scfm

Time offsite: \_\_\_\_\_ 0755 \_\_\_\_\_

PID (amb) = 0.1 ppm  
 Cal (100) = 102.2 ppm

Equipment Notes:

- \* For GasTec to get 100ml but the arrow on the pully in alignment with the white arrow on the plunger.  
 Keep tubes in the fridge; can be used up to 4 times if non-Detect
- \* For PID, Check calibration with the Cal Gas provided but no need to re-cal unless greater than 5% off.  
 Call me if you need to calibrate. Don't seal PID to gas container due to pump.
- \* Anemometer was working pretty well at high flow rates, give it a couple minutes to narrow down on the value.
- \* Re-zero digital micromanometer if more than a few decimal points off.  
 Only use digital micromanometer on VPs.



Time of Arrival:       0840        
 Check in at Front (Y)  
 System Running (Y)  
 Condensate Collected:       1/2 cup       of collection pot  
 Visual Equipment Inspection Notes:

System Vac at 61" water, reduced to 60" water

<b>Well</b>	<b>Vacuum</b> (in Water)	<b>Velocity</b> (fpm)	<b>GasTec</b> (ppm)	<b>PID</b> (ppm)	<b>Temp.</b> (F)	<b>Pressure</b> (psi)
SVE-01	55	1148	0	4.3		
SVE-02	55	945	0.6	14.1		
VP-06	0.012		0			
VP-07	0.015		0			
VP-08	0.036		0			
VP-09	0.084		0			
Combined, Pre Blower	60	1772		10.9		
Combined, Blower Out			0.2	4.8	122	0

Combined 10.9 ppm when vac reduced to 10" water  
 Flow is 35 scfm

PID (amb) = 0.2 ppm  
 Cal (100) = 102.2 ppm

Time offsite:       0939      

Equipment Notes:

- \* For GasTec to get 100ml but the arrow on the pully in alignment with the white arrow on the plunger.  
 Keep tubes in the fridge; can be used up to 4 times if non-Detect
- \* For PID, Check calibration with the Cal Gas provided but no need to re-cal unless greater than 5% off.  
 Call me if you need to calibrate. Don't seal PID to gas container due to pump.
- \* Anemometer was working pretty well at high flow rates, give it a couple minutes to narrow down on the value.
- \* Re-zero digital micromanometer if more than a few decimal points off.  
 Only use digital micromanometer on VPs.

Time of Arrival:       1230      

Check in at Front (Y)

System Running (Y)

Condensate Collected:       0       % of collection pot

Visual Equipment Inspection Notes:

	<b>Vacuum</b>	<b>Velocity</b>	<b>GasTec</b>	<b>PID</b>	<b>Temp.</b>	<b>Pressure</b>
<b>Well</b>	(in Water)	(fpm)	(ppm)	(ppm)	(F)	(psi)
SVE-01	56	1029	0	9.1		
SVE-02	54	1124	0.5	12.3		
VP-06	0.019		0			
VP-07	0.019		0			
VP-08	0.039		0			
VP-09	0.093		0			
Combined, Pre Blower	60	1847				
Combined, Blower Out			0	4.9	156	0

Time offsite:       1326      

PID (amb) = 0.3 ppm

Cal (100) = 98.0 ppm

Flow                      35 scfm

Equipment Notes:

- \* For GasTec to get 100ml but the arrow on the pully in alignment with the white arrow on the plunger.  
     Keep tubes in the fridge; can be used up to 4 times if non-Detect
- \* For PID, Check calibration with the Cal Gas provided but no need to re-cal unless greater than 5% off.  
     Call me if you need to calibrate. Don't seal PID to gas container due to pump.
- \* Anemometer was working pretty well at high flow rates, give it a couple minutes to narrow down on the value.
- \* Re-zero digital micromanometer if more than a few decimal points off.  
     Only use digital micromanometer on VPs.

Time of Arrival: \_\_\_\_\_ 1500 \_\_\_\_\_

Check in at Front (Y)

System Running (Y)

Condensate Collected: \_\_\_\_\_ 0 \_\_\_\_\_ % of collection pot

Visual Equipment Inspection Notes:

System Vac at -58" on arrival, increased to 60" wc before measurements

Well	Vacuum (in Water)	Velocity (fpm)	GasTec (ppm)	PID (ppm)	Temp. (F)	Pressure (psi)
SVE-01	54	908	0.6	9.1		
SVE-02	54	972	0.5	15.6		
VP-06	0.17		0			
VP-07	0.019		0			
VP-08	0.041		0.5			
VP-09	0.093		0			
Combined, Pre Blower	60	1720				
Combined, Blower Out			0	6.5	160	0

Time offsite: \_\_\_\_\_ 1615 \_\_\_\_\_

PID

Amb (0) = 0.2 ppm

Cal (100) = 98.7ppm

Flow

34 scfm  
 0.0218 FPM to SCFM  
 38 Calc scfm

Equipment Notes:

- \* For GasTec to get 100ml but the arrow on the pully in alignment with the white arrow on the plunger.  
 Keep tubes in the fridge; can be used up to 4 times if non-Detect
- \* For PID, Check calibration with the Cal Gas provided but no need to re-cal unless greater than 5% off.  
 Call me if you need to calibrate. Don't seal PID to gas container due to pump.
- \* Anemometer was working pretty well at high flow rates, give it a couple minutes to narrow down on the value.
- \* Re-zero digital micromanometer if more than a few decimal points off.  
 Only use digital micromanometer on VPs.

Time of Arrival: \_\_\_\_\_ 0930 \_\_\_\_\_  
 Check in at Front (Y)  
 System Running (Y)  
 Condensate Collected: \_\_\_\_\_ 0 \_\_\_\_\_ % of collection pot  
 Visual Equipment Inspection Notes:

Looks Good  
 Complete O&M measurements before additional Tasks

Well	Vacuum (in Water)	Velocity (fpm)	GasTec (ppm)	PID (ppm)	Temp. (F)	Pressure (psi)
SVE-01	54	855	0	9.2		
SVE-02	54	1050	0.6	17.2		
VP-06	0.02		0			
VP-07	0.022		0			
VP-08	0.045		0			
VP-09	0.1		0			
Combined, Pre Blower	60	1760				
Combined, Blower Out			0.2	7.6	142	0

PID Cal      Amb (0) = 0.1  
 Cal (100) = 97.0

Time offsite: \_\_\_\_\_ 1245 \_\_\_\_\_

- 1) Completed Usual O&M readings  
 Turn system down to 10" Water Vac for PID readings to not flow fault, then turned back up immediately.
  - 2) Summa Samples  
 Details on Handwritten Field Notes sheet and COC  
 (SVE-01-082020 and SVE-02-082020 analyzed for cVOCs)
  - 3) Replace Flow Meter  
 1050 System off for flow meter replacement  
 1200 (Had to go to home depot) New meter installed, system on
- | mini Step-Test (in Water) | FPM | SCFM | Calculated CFM |
|---------------------------|-----|------|----------------|
| 1210                      | 20  | 840  | N/A 18         |
| 1220                      | 30  | 1120 | <25 24         |
| 1230                      | 40  | 1550 | 30 34          |
| 1240                      | 60  | 1760 | 34 38          |
- Text AG about leaving the flow meter onsite      Goodbye to Mr. Cha  
 1250 Aspect Offsite

Time of Arrival: \_\_\_\_\_ 0745 \_\_\_\_\_  
 Check in at Front (Y)  
 System Running (Y)  
 Condensate Collected: \_\_\_\_\_ 0 \_\_\_\_\_ % of collection pot  
 Visual Equipment Inspection Notes:

System Vacuum at 61", reduced to 60" before measurements

Well	Vacuum (in Water)	Velocity (fpm)	GasTec (ppm)	PID (ppm)	Temp. (F)	Pressure (psi)
SVE-01	55	1075	0.5	11.7		
SVE-02	54	968	0.6	35.1		
VP-06	0.017		0			
VP-07	0.018		0			
VP-08	0.038		0			
VP-09	0.099		0			
Combined, Pre Blower	60	1654				
Combined, Blower Out			0	10.6	124	0

Time offsite: \_\_\_\_\_ 0854 \_\_\_\_\_

PID Calibration            Ambient (0) = 0.0  
                                   Cal (100) = 97.4 ppm

EJJ discussed with BMG via text the need to temporarily turn down the system to collect PID readings on the SVE laterals. BMG OK'd process  
 PID would flow fault with system at 60", reduce to ~10" for PID readings.

Equipment Notes:

- \* For GasTec to get 100ml but the arrow on the pully in alignment with the white arrow on the plunger.  
     Keep tubes in the fridge; can be used up to 4 times if non-Detect
- \* For PID, Check calibration with the Cal Gas provided but no need to re-cal unless greater than 5% off.  
     Call me if you need to calibrate. Don't seal PID to gas container due to pump.
- \* Anemometer was working pretty well at high flow rates, give it a couple minutes to narrow down on the value.
- \* Re-zero digital micromanometer if more than a few decimal points off.  
     Only use digital micromanometer on VPs.

Time of Arrival:        730  
 Check in at Front (Y)  
 System Running (Y)  
 Condensate Collected:            0                      % of collection pot  
 Visual Equipment Inspection Notes:

System Vac @ -61" H2O, reduced to -60" before measurements collected.

<b>Well</b>	<b>Vacuum</b> (in Water)	<b>Velocity</b> (fpm)	<b>GasTec</b> (ppm)	<b>PID</b> (ppm)	<b>Temp.</b> (F)	<b>Pressure</b> (psi)
SVE-01	55	1066	0.2	8.5		
SVE-02	55	968	0.5	30.1		
VP-06	0.017		0			
VP-07	0.019		0			
VP-08	0.038		0			
VP-09	0.08		0			
Combined, Pre Blower	60	1561				
Combined, Blower Out			0	13.1	133	0

Time offsite:        1153

PID Cal ambient = 0.0  
 PID Cal (100) = 96.1            ok

BMG Had EJJ remove flow meter and 2-day it back to Seattle for repairs.

Equipment Notes:

- \* For GasTec to get 100ml but the arrow on the pully in alignment with the white arrow on the plunger.  
     Keep tubes in the fridge; can be used up to 4 times if non-Detect
- \* For PID, Check calibration with the Cal Gas provided but no need to re-cal unless greater than 5% off.  
     Call me if you need to calibrate. Don't seal PID to gas container due to pump.
- \* Anemometer was working pretty well at high flow rates, give it a couple minutes to narrow down on the value.
- \* Re-zero digital micromanometer if more than a few decimal points off.  
     Only use digital micromanometer on VPs.

## **ATTACHMENT C**

### **Laboratory Analytical Reports**

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

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www.friedmanandbruya.com

August 11, 2020

Breeyn Greer, Project Manager  
Aspect Consulting, LLC  
710 2<sup>nd</sup> Ave S, Suite 550  
Seattle, WA 98104

Dear Ms Greer:

Included are the results from the testing of material submitted on July 31, 2020 from the New City Cleaners PO 090018, F&BI 007544 project. There are 10 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Data Aspect  
ASP0811R.DOC



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 31, 2020 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC New City Cleaners PO 090018, F&BI 007544 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
007544 -01	VP-06-072720
007544 -02	VP-07-072720
007544 -03	VP-08-072720
007544 -04	VP-09-072720
007544 -05	SVE-01-073020
007544 -06	SVE-02-073020

The TO-15 tetrachloroethene concentration in sample VP-08-072720 exceeded the calibration range of the instrument. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VP-06-072720	Client:	Aspect Consulting, LLC
Date Received:	07/31/20	Project:	New City Cleaners 090018
Date Collected:	07/27/20	Lab ID:	007544-01 1/8.4
Date Analyzed:	08/07/20	Data File:	080626.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	107	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<2.1	<0.84
Chloroethane	<22	<8.4
1,1-Dichloroethene	<3.3	<0.84
trans-1,2-Dichloroethene	<3.3	<0.84
1,1-Dichloroethane	<3.4	<0.84
cis-1,2-Dichloroethene	<3.3	<0.84
1,2-Dichloroethane (EDC)	<0.34	<0.084
1,1,1-Trichloroethane	<4.6	<0.84
Trichloroethene	80	15
1,1,2-Trichloroethane	<0.92	<0.17
Tetrachloroethene	380	56

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VP-07-072720	Client:	Aspect Consulting, LLC
Date Received:	07/31/20	Project:	New City Cleaners 090018
Date Collected:	07/27/20	Lab ID:	007544-02 1/8.5
Date Analyzed:	08/07/20	Data File:	080627.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	97	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<2.2	<0.85
Chloroethane	<22	<8.5
1,1-Dichloroethene	<3.4	<0.85
trans-1,2-Dichloroethene	<3.4	<0.85
1,1-Dichloroethane	<3.4	<0.85
cis-1,2-Dichloroethene	<3.4	<0.85
1,2-Dichloroethane (EDC)	<0.34	<0.085
1,1,1-Trichloroethane	<4.6	<0.85
Trichloroethene	67	12
1,1,2-Trichloroethane	<0.93	<0.17
Tetrachloroethene	670	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VP-08-072720	Client:	Aspect Consulting, LLC
Date Received:	07/31/20	Project:	New City Cleaners 090018
Date Collected:	07/27/20	Lab ID:	007544-03 1/40
Date Analyzed:	08/07/20	Data File:	080629.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	78	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<10	<4
Chloroethane	<110	<40
1,1-Dichloroethene	<16	<4
trans-1,2-Dichloroethene	<16	<4
1,1-Dichloroethane	<16	<4
cis-1,2-Dichloroethene	<16	<4
1,2-Dichloroethane (EDC)	<1.6	<0.4
1,1,1-Trichloroethane	<22	<4
Trichloroethene	1,000	190
1,1,2-Trichloroethane	<4.4	<0.8
Tetrachloroethene	8,700 ve	1,300 ve

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VP-09-072720	Client:	Aspect Consulting, LLC
Date Received:	07/31/20	Project:	New City Cleaners 090018
Date Collected:	07/27/20	Lab ID:	007544-04 1/17
Date Analyzed:	08/07/20	Data File:	080628.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	111	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<4.3	<1.7
Chloroethane	<45	<17
1,1-Dichloroethene	<6.7	<1.7
trans-1,2-Dichloroethene	<6.7	<1.7
1,1-Dichloroethane	<6.9	<1.7
cis-1,2-Dichloroethene	<6.7	<1.7
1,2-Dichloroethane (EDC)	<0.69	<0.17
1,1,1-Trichloroethane	<9.3	<1.7
Trichloroethene	59	11
1,1,2-Trichloroethane	<1.9	<0.34
Tetrachloroethene	1,800	270

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SVE-01-073020	Client:	Aspect Consulting, LLC
Date Received:	07/31/20	Project:	New City Cleaners 090018
Date Collected:	07/27/20	Lab ID:	007544-05 1/42
Date Analyzed:	08/07/20	Data File:	080630.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	106	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<11	<4.2
Chloroethane	<110	<42
1,1-Dichloroethene	<17	<4.2
trans-1,2-Dichloroethene	<17	<4.2
1,1-Dichloroethane	<17	<4.2
cis-1,2-Dichloroethene	25	6.4
1,2-Dichloroethane (EDC)	<1.7	<0.42
1,1,1-Trichloroethane	<23	<4.2
Trichloroethene	680	130
1,1,2-Trichloroethane	<4.6	<0.84
Tetrachloroethene	4,200	620

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SVE-02-073020	Client:	Aspect Consulting, LLC
Date Received:	07/31/20	Project:	New City Cleaners 090018
Date Collected:	07/27/20	Lab ID:	007544-06 1/43
Date Analyzed:	08/07/20	Data File:	080631.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	89	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<11	<4.3
Chloroethane	<110	<43
1,1-Dichloroethene	<17	<4.3
trans-1,2-Dichloroethene	<17	<4.3
1,1-Dichloroethane	<17	<4.3
cis-1,2-Dichloroethene	560	140
1,2-Dichloroethane (EDC)	<1.7	<0.43
1,1,1-Trichloroethane	<23	<4.3
Trichloroethene	2,400	440
1,1,2-Trichloroethane	<4.7	<0.86
Tetrachloroethene	2,800	410

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	New City Cleaners 090018
Date Collected:	Not Applicable	Lab ID:	00-1732 mb
Date Analyzed:	08/06/20	Data File:	080611.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	107	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
Chloroethane	<2.6	<1
1,1-Dichloroethene	<0.4	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
1,1-Dichloroethane	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01
1,1,1-Trichloroethane	<0.55	<0.1
Trichloroethene	<0.27	<0.05
1,1,2-Trichloroethane	<0.11	<0.02
Tetrachloroethene	<6.8	<1



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/11/20

Date Received: 07/31/20

Project: New City Cleaners PO 090018, F&BI 007544

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES  
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 007532-01 1/5.0 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Vinyl chloride	ug/m3	<1.3	<1.3	nm
Chloroethane	ug/m3	<13	<13	nm
1,1-Dichloroethene	ug/m3	<2	<2	nm
trans-1,2-Dichloroethene	ug/m3	<2	<2	nm
1,1-Dichloroethane	ug/m3	<2	<2	nm
cis-1,2-Dichloroethene	ug/m3	<2	<2	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.2	<0.2	nm
1,1,1-Trichloroethane	ug/m3	<2.7	<2.7	nm
Trichloroethene	ug/m3	<1.3	<1.3	nm
1,1,2-Trichloroethane	ug/m3	<0.55	<0.55	nm
Tetrachloroethene	ug/m3	<34	<34	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	ug/m3	35	88	70-130
Chloroethane	ug/m3	36	85	70-130
1,1-Dichloroethene	ug/m3	54	95	70-130
trans-1,2-Dichloroethene	ug/m3	54	89	70-130
1,1-Dichloroethane	ug/m3	55	86	70-130
cis-1,2-Dichloroethene	ug/m3	54	90	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	97	70-130
1,1,1-Trichloroethane	ug/m3	74	95	70-130
Trichloroethene	ug/m3	73	87	70-130
1,1,2-Trichloroethane	ug/m3	74	85	70-130
Tetrachloroethene	ug/m3	92	90	70-130

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

007544

SAMPLE CHAIN OF CUSTODY

MC 87-31-20

Report To Bryan Greer

Company Aspect

Address 710 2nd Ave Ste 550

City, State, ZIP Seattle WA 98104

Phone 2062323443 Email bgreer@aspectconwalling.com

SAMPLERS (signature) Bryan Greer

PROJECT NAME & ADDRESS New City Cleaners

NOTES: Probably not.

PO # 090018

INVOICE TO AP

Page # 1 of 1

TURNAROUND TIME

Standard  
 RUSH  
Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL  
 Default: Clean after 3 days  
 Archive (Fee may apply)

SAMPLE INFORMATION

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (uHg)	Field Initial Time	Final Vac. (uHg)	Field Final Time	ANALYSIS REQUESTED	Notes
VP-06-072720	01	3675	18	IA / <u>SG</u>	7/27/20	29.0	1431	5.0	1437	TO15 Full Scan TO15 BTEXN TO15 eVOCs APH Helium	*Added can ID and field controller in Lab EMB
VP-07-072720	02	4185	111	IA / <u>SG</u>	7/27/20	29.0	1500	5.0	1506		
VP-08-072720	03	4184	101	IA / <u>SG</u>	7/27/20	32.0	1531	5.0	1536		
VP-09-072720	04	3540	88	IA / <u>SG</u>	7/27/20	28.0	1407	5.0	1413		
SVG-01-073020	05	3669	31	IA / <u>SG</u>	7/30/20	30.0	0845	5.0	0853		
SVG-02-073020	06	2296	35	IA / <u>SG</u>	7/30/20	28.0	0857	5.0	0903		

Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282  
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>Bryan Greer</u>	<u>Bryan Greer</u>	<u>Aspect</u>	<u>7/31/20</u>	<u>1200</u>
<u>Eric Down</u>	<u>Eric Down</u>	<u>FTB</u>	<u>7/31/20</u>	<u>12--</u>

## ANALYTICAL REPORT

Job Number: 580-96357-1

Job Description: New City Cleaners

For:

Aspect Consulting  
350 Madison Ave N  
Bainbridge Island, WA 98110

Attention: Adam Griffin



Approved for release.  
Nathan A Lewis  
Project Manager I  
8/11/2020 4:01 PM

---

Nathan A Lewis, Project Manager I  
5755 8th Street East, Tacoma, WA, 98424  
(253)922-2310  
Nathan.Lewis@Eurofinset.com  
08/11/2020

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The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

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.

**Eurofins TestAmerica, Seattle**

5755 8th Street East, Tacoma, WA 98424

Tel (253) 922-2310 Fax (253) 922-5047 [www.testamericainc.com](http://www.testamericainc.com)

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# Definitions/Glossary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

**CASE NARRATIVE**  
**Client: Aspect Consulting**  
**Project: New City Cleaners**  
**Report Number: 580-96357-1**

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) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

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 07/29/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.4 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 AB-01A-9.0 (580-96357-1), AB-02A-16.0 (580-96357-2), AB-03A-15.0 (580-96357-3), AB-04A-14.0 (580-96357-4) and Trip-Blank-01 (580-96357-5) were analyzed for volatile organic compounds (GC-MS) in accordance with 8260D.** The samples were prepared on 07/29/2020 and analyzed on 08/07/2020.

The laboratory control sample (LCS) for preparation batch 580-335059 and 580-335059 and analytical batch 580-335064 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane and Naphthalene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The CCVIS for preparation batch 580-335059 and analytical batch 580-335064 recovered outside control limits for the following analyte(s): Bromomethane, Chloroethane and Chloromethane. Bromomethane, Chloromethane and Chloroethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The continuing calibration verification (CCV) associated with batch 580-335064 recovered outside acceptance criteria, low biased, for Vinyl chloride. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

The method blank for preparation batch 580-335059 and 580-335059 and analytical batch 580-335064 contained Hexachlorobutadiene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene and Naphthalene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: AB-01A-9.0 (580-96357-1), AB-02A-16.0 (580-96357-2) and AB-04A-14.0 (580-96357-4). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 5g. The amount provided was above this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**PERCENT SOLIDS**

**Samples AB-01A-9.0 (580-96357-1), AB-02A-16.0 (580-96357-2), AB-03A-15.0 (580-96357-3) and AB-04A-14.0 (580-96357-4) were analyzed for percent solids in accordance with ASTM D2216.** The samples were analyzed on 07/30/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.





# Detection Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

**Client Sample ID: AB-01A-9.0**

**Lab Sample ID: 580-96357-1**

No Detections.

**Client Sample ID: AB-02A-16.0**

**Lab Sample ID: 580-96357-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.3		3.2		ug/Kg	1		☼	8260D	Total/NA

**Client Sample ID: AB-03A-15.0**

**Lab Sample ID: 580-96357-3**

No Detections.

**Client Sample ID: AB-04A-14.0**

**Lab Sample ID: 580-96357-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.9		2.8		ug/Kg	1		☼	8260D	Total/NA
Trichloroethene	1.9		1.9		ug/Kg	1		☼	8260D	Total/NA

**Client Sample ID: Trip-Blank-01**

**Lab Sample ID: 580-96357-5**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

**Client Sample ID: AB-01A-9.0**

**Lab Sample ID: 580-96357-1**

**Date Collected: 07/28/20 11:20**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

**Percent Solids: 78.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Chloromethane	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Vinyl chloride	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Bromomethane	ND		0.97		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Chloroethane	ND		9.7		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Trichlorofluoromethane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,1-Dichloroethene	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Methylene Chloride	ND		39		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Methyl tert-butyl ether	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
trans-1,2-Dichloroethene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,1-Dichloroethane	ND		0.97		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
2,2-Dichloropropane	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
cis-1,2-Dichloroethene	ND		2.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Chlorobromomethane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Chloroform	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,1,1-Trichloroethane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Carbon tetrachloride	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,1-Dichloropropene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Benzene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,2-Dichloroethane	ND		0.97		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Trichloroethene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,2-Dichloropropane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Dibromomethane	ND		0.97		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Dichlorobromomethane	ND		0.97		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
cis-1,3-Dichloropropene	ND		0.97		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Toluene	ND		9.7		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
trans-1,3-Dichloropropene	ND		9.7		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,1,2-Trichloroethane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Tetrachloroethene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,3-Dichloropropane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Chlorodibromomethane	ND		1.5		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Ethylene Dibromide	ND		0.97		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Chlorobenzene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,1,1,2-Tetrachloroethane	ND		2.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Ethylbenzene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
m-Xylene & p-Xylene	ND		9.7		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
o-Xylene	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Styrene	ND		2.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Bromoform	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Isopropylbenzene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Bromobenzene	ND		9.7		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,1,2,2-Tetrachloroethane	ND		3.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
N-Propylbenzene	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
2-Chlorotoluene	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
4-Chlorotoluene	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
tert-Butylbenzene	ND		2.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
sec-Butylbenzene	ND		2.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1

# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

**Client Sample ID: AB-01A-9.0**

**Lab Sample ID: 580-96357-1**

**Date Collected: 07/28/20 11:20**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

**Percent Solids: 78.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
n-Butylbenzene	ND		2.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,2-Dichlorobenzene	ND		9.7		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,2-Dibromo-3-Chloropropane	ND	*	9.7		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,2,4-Trichlorobenzene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Hexachlorobutadiene	ND		2.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Naphthalene	ND	*	9.7		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,2,3-Trichlorobenzene	ND		2.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg	☼	07/29/20 10:15	08/07/20 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120				07/29/20 10:15	08/07/20 20:12	1
1,2-Dichloroethane-d4 (Surr)	104		80 - 121				07/29/20 10:15	08/07/20 20:12	1
4-Bromofluorobenzene (Surr)	105		80 - 120				07/29/20 10:15	08/07/20 20:12	1
Dibromofluoromethane (Surr)	104		80 - 120				07/29/20 10:15	08/07/20 20:12	1

**Client Sample ID: AB-02A-16.0**

**Lab Sample ID: 580-96357-2**

**Date Collected: 07/28/20 11:45**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

**Percent Solids: 78.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Chloromethane	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Vinyl chloride	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Bromomethane	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Chloroethane	ND		11		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Trichlorofluoromethane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,1-Dichloroethene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Methylene Chloride	ND		42		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Methyl tert-butyl ether	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
trans-1,2-Dichloroethene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,1-Dichloroethane	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
2,2-Dichloropropane	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
<b>cis-1,2-Dichloroethene</b>	<b>5.3</b>		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Chlorobromomethane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Chloroform	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,1,1-Trichloroethane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Carbon tetrachloride	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,1-Dichloropropene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Benzene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,2-Dichloroethane	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Trichloroethene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,2-Dichloropropane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Dibromomethane	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Dichlorobromomethane	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
cis-1,3-Dichloropropene	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Toluene	ND		11		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1

# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

**Client Sample ID: AB-02A-16.0**

**Lab Sample ID: 580-96357-2**

**Date Collected: 07/28/20 11:45**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

**Percent Solids: 78.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		11		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,1,2-Trichloroethane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Tetrachloroethene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,3-Dichloropropane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Chlorodibromomethane	ND		1.6		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Ethylene Dibromide	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Chlorobenzene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,1,1,2-Tetrachloroethane	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Ethylbenzene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
m-Xylene & p-Xylene	ND		11		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
o-Xylene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Styrene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Bromoform	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Isopropylbenzene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Bromobenzene	ND		11		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,1,2,2-Tetrachloroethane	ND		4.2		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,2,3-Trichloropropane	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
N-Propylbenzene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
2-Chlorotoluene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
4-Chlorotoluene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
tert-Butylbenzene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,2,4-Trimethylbenzene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
sec-Butylbenzene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
4-Isopropyltoluene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,3-Dichlorobenzene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,4-Dichlorobenzene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
n-Butylbenzene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,2-Dichlorobenzene	ND		11		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,2-Dibromo-3-Chloropropane	ND	*	11		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,2,4-Trichlorobenzene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Hexachlorobutadiene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
Naphthalene	ND	*	11		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,2,3-Trichlorobenzene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1
1,3,5-Trimethylbenzene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	07/29/20 10:15	08/07/20 20:39	1
1,2-Dichloroethane-d4 (Surr)	109		80 - 121	07/29/20 10:15	08/07/20 20:39	1
4-Bromofluorobenzene (Surr)	105		80 - 120	07/29/20 10:15	08/07/20 20:39	1
Dibromofluoromethane (Surr)	103		80 - 120	07/29/20 10:15	08/07/20 20:39	1

**Client Sample ID: AB-03A-15.0**

**Lab Sample ID: 580-96357-3**

**Date Collected: 07/28/20 12:30**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

**Percent Solids: 79.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Chloromethane	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Vinyl chloride	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

**Client Sample ID: AB-03A-15.0**

**Lab Sample ID: 580-96357-3**

**Date Collected: 07/28/20 12:30**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

**Percent Solids: 79.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Chloroethane	ND		11		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Trichlorofluoromethane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,1-Dichloroethene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Methylene Chloride	ND		42		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Methyl tert-butyl ether	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
trans-1,2-Dichloroethene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,1-Dichloroethane	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
2,2-Dichloropropane	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
cis-1,2-Dichloroethene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Chlorobromomethane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Chloroform	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,1,1-Trichloroethane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Carbon tetrachloride	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,1-Dichloropropene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Benzene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,2-Dichloroethane	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Trichloroethene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,2-Dichloropropane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Dibromomethane	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Dichlorobromomethane	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
cis-1,3-Dichloropropene	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Toluene	ND		11		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
trans-1,3-Dichloropropene	ND		11		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,1,2-Trichloroethane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Tetrachloroethene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,3-Dichloropropane	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Chlorodibromomethane	ND		1.6		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Ethylene Dibromide	ND		1.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Chlorobenzene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,1,1,2-Tetrachloroethane	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Ethylbenzene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
m-Xylene & p-Xylene	ND		11		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
o-Xylene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Styrene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Bromoform	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Isopropylbenzene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Bromobenzene	ND		11		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,1,2,2-Tetrachloroethane	ND		4.2		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,2,3-Trichloropropane	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
N-Propylbenzene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
2-Chlorotoluene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
4-Chlorotoluene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
tert-Butylbenzene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,2,4-Trimethylbenzene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
sec-Butylbenzene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
4-Isopropyltoluene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,3-Dichlorobenzene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,4-Dichlorobenzene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1

# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

**Client Sample ID: AB-03A-15.0**

**Lab Sample ID: 580-96357-3**

**Date Collected: 07/28/20 12:30**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

**Percent Solids: 79.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,2-Dichlorobenzene	ND		11		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,2-Dibromo-3-Chloropropane	ND	*	11		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,2,4-Trichlorobenzene	ND		2.1		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Hexachlorobutadiene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
Naphthalene	ND	*	11		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,2,3-Trichlorobenzene	ND		3.2		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1
1,3,5-Trimethylbenzene	ND		5.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	07/29/20 10:15	08/07/20 21:06	1
1,2-Dichloroethane-d4 (Surr)	111		80 - 121	07/29/20 10:15	08/07/20 21:06	1
4-Bromofluorobenzene (Surr)	103		80 - 120	07/29/20 10:15	08/07/20 21:06	1
Dibromofluoromethane (Surr)	104		80 - 120	07/29/20 10:15	08/07/20 21:06	1

**Client Sample ID: AB-04A-14.0**

**Lab Sample ID: 580-96357-4**

**Date Collected: 07/28/20 13:15**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

**Percent Solids: 79.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Chloromethane	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Vinyl chloride	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Bromomethane	ND		0.93		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Chloroethane	ND		9.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Trichlorofluoromethane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,1-Dichloroethene	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Methylene Chloride	ND		37		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Methyl tert-butyl ether	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
trans-1,2-Dichloroethene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,1-Dichloroethane	ND		0.93		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
2,2-Dichloropropane	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
<b>cis-1,2-Dichloroethene</b>	<b>2.9</b>		2.8		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Chlorobromomethane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Chloroform	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,1,1-Trichloroethane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Carbon tetrachloride	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,1-Dichloropropene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Benzene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,2-Dichloroethane	ND		0.93		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
<b>Trichloroethene</b>	<b>1.9</b>		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,2-Dichloropropane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Dibromomethane	ND		0.93		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Dichlorobromomethane	ND		0.93		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
cis-1,3-Dichloropropene	ND		0.93		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Toluene	ND		9.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
trans-1,3-Dichloropropene	ND		9.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,1,2-Trichloroethane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Tetrachloroethene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1



# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

**Client Sample ID: AB-04A-14.0**

**Lab Sample ID: 580-96357-4**

**Date Collected: 07/28/20 13:15**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

**Percent Solids: 79.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Chlorodibromomethane	ND		1.4		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Ethylene Dibromide	ND		0.93		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Chlorobenzene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,1,1,2-Tetrachloroethane	ND		2.8		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Ethylbenzene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
m-Xylene & p-Xylene	ND		9.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
o-Xylene	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Styrene	ND		2.8		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Bromoform	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Isopropylbenzene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Bromobenzene	ND		9.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,1,2,2-Tetrachloroethane	ND		3.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
N-Propylbenzene	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
2-Chlorotoluene	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
4-Chlorotoluene	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
tert-Butylbenzene	ND		2.8		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
sec-Butylbenzene	ND		2.8		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
4-Isopropyltoluene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
n-Butylbenzene	ND		2.8		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,2-Dichlorobenzene	ND		9.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,2-Dibromo-3-Chloropropane	ND	*	9.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,2,4-Trichlorobenzene	ND		1.9		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Hexachlorobutadiene	ND		2.8		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
Naphthalene	ND	*	9.3		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,2,3-Trichlorobenzene	ND		2.8		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg	☼	07/29/20 10:15	08/07/20 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120	07/29/20 10:15	08/07/20 21:32	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 121	07/29/20 10:15	08/07/20 21:32	1
4-Bromofluorobenzene (Surr)	101		80 - 120	07/29/20 10:15	08/07/20 21:32	1
Dibromofluoromethane (Surr)	106		80 - 120	07/29/20 10:15	08/07/20 21:32	1

**Client Sample ID: Trip-Blank-01**

**Lab Sample ID: 580-96357-5**

**Date Collected: 07/28/20 10:30**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Chloromethane	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Vinyl chloride	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Bromomethane	ND		1.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Chloroethane	ND		10		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Trichlorofluoromethane	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1

Eurofins TestAmerica, Seattle



# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

**Client Sample ID: Trip-Blank-01**

**Lab Sample ID: 580-96357-5**

**Date Collected: 07/28/20 10:30**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Methylene Chloride	ND		40		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Methyl tert-butyl ether	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,1-Dichloroethane	ND		1.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
2,2-Dichloropropane	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
cis-1,2-Dichloroethene	ND		3.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Chlorobromomethane	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Chloroform	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Carbon tetrachloride	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,1-Dichloropropene	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Benzene	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,2-Dichloroethane	ND		1.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Trichloroethene	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,2-Dichloropropane	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Dibromomethane	ND		1.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Dichlorobromomethane	ND		1.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Toluene	ND		10		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
trans-1,3-Dichloropropene	ND		10		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Tetrachloroethene	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,3-Dichloropropane	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Chlorodibromomethane	ND		1.5		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Ethylene Dibromide	ND		1.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Chlorobenzene	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,1,1,2-Tetrachloroethane	ND		3.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Ethylbenzene	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
m-Xylene & p-Xylene	ND		10		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
o-Xylene	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Styrene	ND		3.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Bromoform	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Isopropylbenzene	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Bromobenzene	ND		10		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,1,2,2-Tetrachloroethane	ND		4.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
N-Propylbenzene	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
2-Chlorotoluene	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
4-Chlorotoluene	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
tert-Butylbenzene	ND		3.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
sec-Butylbenzene	ND		3.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
4-Isopropyltoluene	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
n-Butylbenzene	ND		3.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,2-Dichlorobenzene	ND		10		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,2-Dibromo-3-Chloropropane	ND	*	10		ug/Kg		07/29/20 10:15	08/07/20 16:40	1

# Client Sample Results

Client: Aspect Consulting  
 Project/Site: New City Cleaners

Job ID: 580-96357-1

**Client Sample ID: Trip-Blank-01**

**Lab Sample ID: 580-96357-5**

**Date Collected: 07/28/20 10:30**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Hexachlorobutadiene	ND		3.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
Naphthalene	ND	*	10		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,2,3-Trichlorobenzene	ND		3.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		07/29/20 10:15	08/07/20 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120	07/29/20 10:15	08/07/20 16:40	1
1,2-Dichloroethane-d4 (Surr)	106		80 - 121	07/29/20 10:15	08/07/20 16:40	1
4-Bromofluorobenzene (Surr)	104		80 - 120	07/29/20 10:15	08/07/20 16:40	1
Dibromofluoromethane (Surr)	105		80 - 120	07/29/20 10:15	08/07/20 16:40	1

# Default Detection Limits

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

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

Prep: 5035

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	3.0	0.59	ug/Kg
1,1,1-Trichloroethane	2.0	0.30	ug/Kg
1,1,2,2-Tetrachloroethane	4.0	0.90	ug/Kg
1,1,2-Trichloroethane	2.0	0.25	ug/Kg
1,1-Dichloroethane	1.0	0.19	ug/Kg
1,1-Dichloroethene	5.0	1.1	ug/Kg
1,1-Dichloropropene	2.0	0.30	ug/Kg
1,2,3-Trichlorobenzene	3.0	0.60	ug/Kg
1,2,3-Trichloropropane	5.0	1.0	ug/Kg
1,2,4-Trichlorobenzene	2.0	0.42	ug/Kg
1,2,4-Trimethylbenzene	5.0	1.2	ug/Kg
1,2-Dibromo-3-Chloropropane	10	1.6	ug/Kg
1,2-Dichlorobenzene	10	1.3	ug/Kg
1,2-Dichloroethane	1.0	0.20	ug/Kg
1,2-Dichloropropane	2.0	0.40	ug/Kg
1,3,5-Trimethylbenzene	5.0	0.81	ug/Kg
1,3-Dichlorobenzene	5.0	1.1	ug/Kg
1,3-Dichloropropane	2.0	0.23	ug/Kg
1,4-Dichlorobenzene	5.0	0.98	ug/Kg
2,2-Dichloropropane	5.0	0.33	ug/Kg
2-Chlorotoluene	5.0	0.93	ug/Kg
4-Chlorotoluene	5.0	1.0	ug/Kg
4-Isopropyltoluene	2.0	0.40	ug/Kg
Benzene	2.0	0.39	ug/Kg
Bromobenzene	10	1.0	ug/Kg
Bromoform	5.0	0.84	ug/Kg
Bromomethane	1.0	0.21	ug/Kg
Carbon tetrachloride	2.0	0.30	ug/Kg
Chlorobenzene	2.0	0.25	ug/Kg
Chlorobromomethane	2.0	0.25	ug/Kg
Chlorodibromomethane	1.5	0.27	ug/Kg
Chloroethane	10	0.75	ug/Kg
Chloroform	2.0	0.30	ug/Kg
Chloromethane	5.0	0.93	ug/Kg
cis-1,2-Dichloroethene	3.0	0.60	ug/Kg
cis-1,3-Dichloropropene	1.0	0.20	ug/Kg
Dibromomethane	1.0	0.17	ug/Kg
Dichlorobromomethane	1.0	0.18	ug/Kg
Dichlorodifluoromethane	2.0	0.49	ug/Kg
Ethylbenzene	2.0	0.41	ug/Kg
Ethylene Dibromide	1.0	0.20	ug/Kg
Hexachlorobutadiene	3.0	0.60	ug/Kg
Isopropylbenzene	2.0	0.46	ug/Kg
Methyl tert-butyl ether	2.0	0.30	ug/Kg
Methylene Chloride	40	9.9	ug/Kg
m-Xylene & p-Xylene	10	0.56	ug/Kg
Naphthalene	10	1.8	ug/Kg
n-Butylbenzene	3.0	0.63	ug/Kg
N-Propylbenzene	5.0	0.76	ug/Kg
o-Xylene	5.0	0.92	ug/Kg
sec-Butylbenzene	3.0	0.67	ug/Kg
Styrene	3.0	0.74	ug/Kg

# Default Detection Limits

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

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

Prep: 5035

Analyte	RL	MDL	Units
tert-Butylbenzene	3.0	0.66	ug/Kg
Tetrachloroethene	2.0	0.40	ug/Kg
Toluene	10	1.3	ug/Kg
trans-1,2-Dichloroethene	2.0	0.40	ug/Kg
trans-1,3-Dichloropropene	10	0.60	ug/Kg
Trichloroethene	2.0	0.30	ug/Kg
Trichlorofluoromethane	2.0	0.30	ug/Kg
Vinyl chloride	2.0	0.30	ug/Kg

# Surrogate Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (80-121)	BFB (80-120)	DBFM (80-120)
580-96357-1	AB-01A-9.0	96	104	105	104
580-96357-2	AB-02A-16.0	95	109	105	103
580-96357-3	AB-03A-15.0	95	111	103	104
580-96357-4	AB-04A-14.0	94	107	101	106
580-96357-5	Trip-Blank-01	95	106	104	105
LCS 580-335059/2-A	Lab Control Sample	94	102	104	103
LCSD 580-335059/3-A	Lab Control Sample Dup	97	104	104	103
MB 580-335059/1-A	Method Blank	96	100	103	102

### Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

# QC Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

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

**Lab Sample ID: MB 580-335059/1-A**  
**Matrix: Solid**  
**Analysis Batch: 335064**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 335059**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Chloromethane	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Vinyl chloride	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Bromomethane	ND		1.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Chloroethane	ND		10		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Trichlorofluoromethane	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Methylene Chloride	ND		40		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Methyl tert-butyl ether	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,1-Dichloroethane	ND		1.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
cis-1,2-Dichloroethene	ND		3.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Chlorobromomethane	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Chloroform	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Carbon tetrachloride	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,1-Dichloropropene	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Benzene	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,2-Dichloroethane	ND		1.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Trichloroethene	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,2-Dichloropropane	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Dibromomethane	ND		1.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Dichlorobromomethane	ND		1.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Toluene	ND		10		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
trans-1,3-Dichloropropene	ND		10		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Tetrachloroethene	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,3-Dichloropropane	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Chlorodibromomethane	ND		1.5		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Ethylene Dibromide	ND		1.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Chlorobenzene	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,1,1,2-Tetrachloroethane	ND		3.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Ethylbenzene	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
m-Xylene & p-Xylene	ND		10		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
o-Xylene	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Styrene	ND		3.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Bromoform	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Isopropylbenzene	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Bromobenzene	ND		10		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,1,2,2-Tetrachloroethane	ND		4.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
N-Propylbenzene	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
tert-Butylbenzene	ND		3.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1

# QC Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

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

**Lab Sample ID: MB 580-335059/1-A**  
**Matrix: Solid**  
**Analysis Batch: 335064**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 335059**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		3.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
4-Isopropyltoluene	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
n-Butylbenzene	ND		3.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,2-Dichlorobenzene	ND		10		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Hexachlorobutadiene	ND		3.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
Naphthalene	ND		10		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,2,3-Trichlorobenzene	ND		3.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/07/20 13:00	08/07/20 14:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120	08/07/20 13:00	08/07/20 14:46	1
1,2-Dichloroethane-d4 (Surr)	100		80 - 121	08/07/20 13:00	08/07/20 14:46	1
4-Bromofluorobenzene (Surr)	103		80 - 120	08/07/20 13:00	08/07/20 14:46	1
Dibromofluoromethane (Surr)	102		80 - 120	08/07/20 13:00	08/07/20 14:46	1

**Lab Sample ID: LCS 580-335059/2-A**  
**Matrix: Solid**  
**Analysis Batch: 335064**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 335059**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Dichlorodifluoromethane	20.0	22.9		ug/Kg		115	24 - 150
Chloromethane	20.0	18.1		ug/Kg		91	52 - 150
Vinyl chloride	20.0	17.7		ug/Kg		89	54 - 150
Bromomethane	20.0	17.6		ug/Kg		88	42 - 150
Chloroethane	20.0	13.7		ug/Kg		69	50 - 150
Trichlorofluoromethane	20.0	18.9		ug/Kg		95	71 - 150
1,1-Dichloroethene	20.0	18.8		ug/Kg		94	73 - 143
Methylene Chloride	20.0	20.9	J	ug/Kg		104	66 - 140
Methyl tert-butyl ether	20.0	22.6		ug/Kg		113	77 - 132
trans-1,2-Dichloroethene	20.0	19.9		ug/Kg		99	77 - 134
1,1-Dichloroethane	20.0	20.5		ug/Kg		103	78 - 135
2,2-Dichloropropane	20.0	20.0		ug/Kg		100	62 - 150
cis-1,2-Dichloroethene	20.0	20.3		ug/Kg		102	68 - 132
Chlorobromomethane	20.0	21.1		ug/Kg		105	76 - 131
Chloroform	20.0	21.0		ug/Kg		105	74 - 133
1,1,1-Trichloroethane	20.0	20.6		ug/Kg		103	78 - 144
Carbon tetrachloride	20.0	20.5		ug/Kg		103	66 - 150
1,1-Dichloropropene	20.0	20.4		ug/Kg		102	76 - 140
Benzene	20.0	20.3		ug/Kg		101	79 - 135
1,2-Dichloroethane	20.0	21.6		ug/Kg		108	76 - 132
Trichloroethene	20.0	19.9		ug/Kg		100	80 - 134
1,2-Dichloropropane	20.0	21.7		ug/Kg		108	65 - 136
Dibromomethane	20.0	22.1		ug/Kg		110	72 - 130
Dichlorobromomethane	20.0	23.2		ug/Kg		116	73 - 125

# QC Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

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

**Lab Sample ID: LCS 580-335059/2-A**

**Matrix: Solid**

**Analysis Batch: 335064**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 335059**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
cis-1,3-Dichloropropene	20.0	22.6		ug/Kg		113	80 - 122
Toluene	20.0	19.4		ug/Kg		97	75 - 137
trans-1,3-Dichloropropene	20.0	23.5		ug/Kg		118	80 - 121
1,1,2-Trichloroethane	20.0	22.4		ug/Kg		112	80 - 123
Tetrachloroethene	20.0	18.4		ug/Kg		92	58 - 150
1,3-Dichloropropane	20.0	23.0		ug/Kg		115	75 - 120
Chlorodibromomethane	20.0	24.2		ug/Kg		121	75 - 132
Ethylene Dibromide	20.0	22.7		ug/Kg		113	77 - 123
Chlorobenzene	20.0	22.0		ug/Kg		110	80 - 131
1,1,1,2-Tetrachloroethane	20.0	23.6		ug/Kg		118	79 - 128
Ethylbenzene	20.0	21.6		ug/Kg		108	80 - 135
m-Xylene & p-Xylene	20.0	22.3		ug/Kg		112	80 - 132
o-Xylene	20.0	23.6		ug/Kg		118	80 - 132
Styrene	20.0	24.4		ug/Kg		122	79 - 129
Bromoform	20.0	26.1		ug/Kg		131	71 - 146
Isopropylbenzene	20.0	23.8		ug/Kg		119	81 - 140
Bromobenzene	20.0	23.0		ug/Kg		115	78 - 126
1,1,2,2-Tetrachloroethane	20.0	25.2		ug/Kg		126	77 - 127
1,2,3-Trichloropropane	20.0	23.4		ug/Kg		117	77 - 127
N-Propylbenzene	20.0	23.2		ug/Kg		116	68 - 149
2-Chlorotoluene	20.0	22.7		ug/Kg		114	77 - 134
4-Chlorotoluene	20.0	23.4		ug/Kg		117	71 - 137
tert-Butylbenzene	20.0	24.3		ug/Kg		122	72 - 144
1,2,4-Trimethylbenzene	20.0	20.9		ug/Kg		104	73 - 138
sec-Butylbenzene	20.0	24.3		ug/Kg		121	71 - 143
4-Isopropyltoluene	20.0	24.5		ug/Kg		122	71 - 142
1,3-Dichlorobenzene	20.0	23.8		ug/Kg		119	78 - 132
1,4-Dichlorobenzene	20.0	23.6		ug/Kg		118	77 - 123
n-Butylbenzene	20.0	24.5		ug/Kg		123	69 - 143
1,2-Dichlorobenzene	20.0	24.5		ug/Kg		123	78 - 126
1,2-Dibromo-3-Chloropropane	20.0	26.8	*	ug/Kg		134	75 - 129
1,2,4-Trichlorobenzene	20.0	25.5		ug/Kg		127	74 - 131
Hexachlorobutadiene	20.0	24.7		ug/Kg		124	65 - 150
Naphthalene	20.0	28.5	*	ug/Kg		143	64 - 136
1,2,3-Trichlorobenzene	20.0	26.6		ug/Kg		133	68 - 136
1,3,5-Trimethylbenzene	20.0	24.1		ug/Kg		121	72 - 142

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	94		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		80 - 121
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120



# QC Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

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

**Lab Sample ID: LCSD 580-335059/3-A**

**Matrix: Solid**

**Analysis Batch: 335064**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 335059**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Dichlorodifluoromethane	20.0	18.7		ug/Kg		94	24 - 150	20	40	
Chloromethane	20.0	17.1		ug/Kg		86	52 - 150	6	26	
Vinyl chloride	20.0	17.6		ug/Kg		88	54 - 150	1	40	
Bromomethane	20.0	17.2		ug/Kg		86	42 - 150	2	40	
Chloroethane	20.0	13.3		ug/Kg		66	50 - 150	3	31	
Trichlorofluoromethane	20.0	16.4		ug/Kg		82	71 - 150	14	36	
1,1-Dichloroethene	20.0	15.4		ug/Kg		77	73 - 143	20	34	
Methylene Chloride	20.0	19.9	J	ug/Kg		100	66 - 140	5	30	
Methyl tert-butyl ether	20.0	21.6		ug/Kg		108	77 - 132	4	25	
trans-1,2-Dichloroethene	20.0	18.5		ug/Kg		93	77 - 134	7	33	
1,1-Dichloroethane	20.0	19.2		ug/Kg		96	78 - 135	6	31	
2,2-Dichloropropane	20.0	18.2		ug/Kg		91	62 - 150	9	40	
cis-1,2-Dichloroethene	20.0	19.9		ug/Kg		99	68 - 132	2	32	
Chlorobromomethane	20.0	20.0		ug/Kg		100	76 - 131	5	28	
Chloroform	20.0	20.6		ug/Kg		103	74 - 133	2	36	
1,1,1-Trichloroethane	20.0	19.8		ug/Kg		99	78 - 144	4	38	
Carbon tetrachloride	20.0	19.3		ug/Kg		97	66 - 150	6	39	
1,1-Dichloropropene	20.0	19.3		ug/Kg		97	76 - 140	5	38	
Benzene	20.0	19.5		ug/Kg		98	79 - 135	4	31	
1,2-Dichloroethane	20.0	20.9		ug/Kg		105	76 - 132	3	29	
Trichloroethene	20.0	20.0		ug/Kg		100	80 - 134	0	40	
1,2-Dichloropropane	20.0	21.0		ug/Kg		105	65 - 136	3	37	
Dibromomethane	20.0	21.7		ug/Kg		108	72 - 130	2	34	
Dichlorobromomethane	20.0	22.7		ug/Kg		113	73 - 125	2	40	
cis-1,3-Dichloropropene	20.0	22.8		ug/Kg		114	80 - 122	1	40	
Toluene	20.0	19.6		ug/Kg		98	75 - 137	1	34	
trans-1,3-Dichloropropene	20.0	23.7		ug/Kg		118	80 - 121	1	40	
1,1,2-Trichloroethane	20.0	22.4		ug/Kg		112	80 - 123	0	39	
Tetrachloroethene	20.0	19.0		ug/Kg		95	58 - 150	3	40	
1,3-Dichloropropane	20.0	23.0		ug/Kg		115	75 - 120	0	37	
Chlorodibromomethane	20.0	24.0		ug/Kg		120	75 - 132	1	40	
Ethylene Dibromide	20.0	23.1		ug/Kg		116	77 - 123	2	37	
Chlorobenzene	20.0	22.2		ug/Kg		111	80 - 131	1	40	
1,1,1,2-Tetrachloroethane	20.0	23.5		ug/Kg		118	79 - 128	0	40	
Ethylbenzene	20.0	22.0		ug/Kg		110	80 - 135	2	37	
m-Xylene & p-Xylene	20.0	22.7		ug/Kg		114	80 - 132	2	38	
o-Xylene	20.0	23.4		ug/Kg		117	80 - 132	1	39	
Styrene	20.0	24.0		ug/Kg		120	79 - 129	1	40	
Bromoform	20.0	24.4		ug/Kg		122	71 - 146	7	40	
Isopropylbenzene	20.0	23.7		ug/Kg		118	81 - 140	1	40	
Bromobenzene	20.0	21.9		ug/Kg		110	78 - 126	5	40	
1,1,2,2-Tetrachloroethane	20.0	22.7		ug/Kg		114	77 - 127	10	40	
1,2,3-Trichloropropane	20.0	22.2		ug/Kg		111	77 - 127	6	40	
N-Propylbenzene	20.0	22.9		ug/Kg		114	68 - 149	1	40	
2-Chlorotoluene	20.0	21.9		ug/Kg		110	77 - 134	4	40	
4-Chlorotoluene	20.0	22.4		ug/Kg		112	71 - 137	5	40	
tert-Butylbenzene	20.0	23.8		ug/Kg		119	72 - 144	2	40	
1,2,4-Trimethylbenzene	20.0	20.1		ug/Kg		101	73 - 138	4	40	

# QC Sample Results

Client: Aspect Consulting  
 Project/Site: New City Cleaners

Job ID: 580-96357-1

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

**Lab Sample ID: LCSD 580-335059/3-A**  
**Matrix: Solid**  
**Analysis Batch: 335064**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 335059**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	20.0	23.5		ug/Kg		118	71 - 143	3	40
4-Isopropyltoluene	20.0	23.7		ug/Kg		118	71 - 142	3	40
1,3-Dichlorobenzene	20.0	22.0		ug/Kg		110	78 - 132	8	40
1,4-Dichlorobenzene	20.0	21.7		ug/Kg		109	77 - 123	8	40
n-Butylbenzene	20.0	23.3		ug/Kg		117	69 - 143	5	40
1,2-Dichlorobenzene	20.0	22.5		ug/Kg		112	78 - 126	9	40
1,2-Dibromo-3-Chloropropane	20.0	24.7		ug/Kg		124	75 - 129	8	40
1,2,4-Trichlorobenzene	20.0	22.6		ug/Kg		113	74 - 131	12	40
Hexachlorobutadiene	20.0	22.2		ug/Kg		111	65 - 150	11	36
Naphthalene	20.0	26.6		ug/Kg		133	64 - 136	7	40
1,2,3-Trichlorobenzene	20.0	24.1		ug/Kg		120	68 - 136	10	40
1,3,5-Trimethylbenzene	20.0	23.4		ug/Kg		117	72 - 142	3	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>Toluene-d8 (Surr)</i>	97		80 - 120
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		80 - 121
<i>4-Bromofluorobenzene (Surr)</i>	104		80 - 120
<i>Dibromofluoromethane (Surr)</i>	103		80 - 120

# QC Association Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

## GC/MS VOA

### Prep Batch: 335059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-96357-1	AB-01A-9.0	Total/NA	Solid	5035	
580-96357-2	AB-02A-16.0	Total/NA	Solid	5035	
580-96357-3	AB-03A-15.0	Total/NA	Solid	5035	
580-96357-4	AB-04A-14.0	Total/NA	Solid	5035	
580-96357-5	Trip-Blank-01	Total/NA	Solid	5035	
MB 580-335059/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-335059/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-335059/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

### Analysis Batch: 335064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-96357-1	AB-01A-9.0	Total/NA	Solid	8260D	335059
580-96357-2	AB-02A-16.0	Total/NA	Solid	8260D	335059
580-96357-3	AB-03A-15.0	Total/NA	Solid	8260D	335059
580-96357-4	AB-04A-14.0	Total/NA	Solid	8260D	335059
580-96357-5	Trip-Blank-01	Total/NA	Solid	8260D	335059
MB 580-335059/1-A	Method Blank	Total/NA	Solid	8260D	335059
LCS 580-335059/2-A	Lab Control Sample	Total/NA	Solid	8260D	335059
LCSD 580-335059/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	335059

## General Chemistry

### Analysis Batch: 334411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-96357-1	AB-01A-9.0	Total/NA	Solid	2540G	

### Analysis Batch: 334415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-96357-2	AB-02A-16.0	Total/NA	Solid	2540G	
580-96357-3	AB-03A-15.0	Total/NA	Solid	2540G	
580-96357-4	AB-04A-14.0	Total/NA	Solid	2540G	

# Lab Chronicle

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

**Client Sample ID: AB-01A-9.0**

**Date Collected: 07/28/20 11:20**

**Date Received: 07/29/20 09:50**

**Lab Sample ID: 580-96357-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	334411	07/30/20 17:50	HBP	TAL SEA

**Client Sample ID: AB-01A-9.0**

**Date Collected: 07/28/20 11:20**

**Date Received: 07/29/20 09:50**

**Lab Sample ID: 580-96357-1**

**Matrix: Solid**

**Percent Solids: 78.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			335059	07/29/20 10:15	CJB	TAL SEA
Total/NA	Analysis	8260D		1	335064	08/07/20 20:12	CJ	TAL SEA

**Client Sample ID: AB-02A-16.0**

**Date Collected: 07/28/20 11:45**

**Date Received: 07/29/20 09:50**

**Lab Sample ID: 580-96357-2**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	334415	07/30/20 18:35	HBP	TAL SEA

**Client Sample ID: AB-02A-16.0**

**Date Collected: 07/28/20 11:45**

**Date Received: 07/29/20 09:50**

**Lab Sample ID: 580-96357-2**

**Matrix: Solid**

**Percent Solids: 78.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			335059	07/29/20 10:15	CJB	TAL SEA
Total/NA	Analysis	8260D		1	335064	08/07/20 20:39	CJ	TAL SEA

**Client Sample ID: AB-03A-15.0**

**Date Collected: 07/28/20 12:30**

**Date Received: 07/29/20 09:50**

**Lab Sample ID: 580-96357-3**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	334415	07/30/20 18:35	HBP	TAL SEA

**Client Sample ID: AB-03A-15.0**

**Date Collected: 07/28/20 12:30**

**Date Received: 07/29/20 09:50**

**Lab Sample ID: 580-96357-3**

**Matrix: Solid**

**Percent Solids: 79.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			335059	07/29/20 10:15	CJB	TAL SEA
Total/NA	Analysis	8260D		1	335064	08/07/20 21:06	CJ	TAL SEA

**Client Sample ID: AB-04A-14.0**

**Date Collected: 07/28/20 13:15**

**Date Received: 07/29/20 09:50**

**Lab Sample ID: 580-96357-4**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	334415	07/30/20 18:35	HBP	TAL SEA

# Lab Chronicle

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

**Client Sample ID: AB-04A-14.0**

**Lab Sample ID: 580-96357-4**

**Date Collected: 07/28/20 13:15**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

**Percent Solids: 79.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			335059	07/29/20 10:15	CJB	TAL SEA
Total/NA	Analysis	8260D		1	335064	08/07/20 21:32	CJ	TAL SEA

**Client Sample ID: Trip-Blank-01**

**Lab Sample ID: 580-96357-5**

**Date Collected: 07/28/20 10:30**

**Matrix: Solid**

**Date Received: 07/29/20 09:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			335059	07/29/20 10:15	CJB	TAL SEA
Total/NA	Analysis	8260D		1	335064	08/07/20 16:40	CJ	TAL SEA

**Laboratory References:**

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Accreditation/Certification Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

## Laboratory: Eurofins TestAmerica, Seattle

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

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21

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
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

# Method Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SEA
2540G	SM 2540G	SM22	TAL SEA
5035	Closed System Purge and Trap	SW846	TAL SEA

**Protocol References:**

- SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

- TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Sample Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-96357-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-96357-1	AB-01A-9.0	Solid	07/28/20 11:20	07/29/20 09:50	
580-96357-2	AB-02A-16.0	Solid	07/28/20 11:45	07/29/20 09:50	
580-96357-3	AB-03A-15.0	Solid	07/28/20 12:30	07/29/20 09:50	
580-96357-4	AB-04A-14.0	Solid	07/28/20 13:15	07/29/20 09:50	
580-96357-5	Trip-Blank-01	Solid	07/28/20 10:30	07/29/20 09:50	



## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 332974Lab Sample ID: IC 580-332974/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/14/20 15:42 Lab File ID: 07142020b\_003.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.73	Incomplete Integration	bohnc	07/15/20 09:00
Vinyl chloride	2.08	Incomplete Integration	limwirojt	07/15/20 14:28
Butadiene	2.12	Incomplete Integration	limwirojt	07/15/20 14:28
Bromomethane	2.48	Assign Peak	limwirojt	07/15/20 14:29
Chloroethane	2.60	Incomplete Integration	limwirojt	07/15/20 14:29
Dichlorofluoromethane	2.92	Incomplete Integration	limwirojt	07/15/20 14:29
Trichlorofluoromethane	2.94	Incomplete Integration	limwirojt	07/15/20 14:32
Acrolein	3.53	Incomplete Integration	limwirojt	07/15/20 14:32
1,1-Dichloroethene	3.70	Incomplete Integration	limwirojt	07/15/20 14:32
1,1,2-Trichloro-1,2,2-trifluoroethane	3.76	Incomplete Integration	limwirojt	07/15/20 14:32
Iodomethane	3.91	Incomplete Integration	limwirojt	07/15/20 14:37
Carbon disulfide	4.03	Incomplete Integration	limwirojt	07/15/20 14:37
Isopropyl alcohol	4.04	Assign Peak	limwirojt	07/15/20 14:38
Methylene Chloride	4.54	Incomplete Integration	limwirojt	07/15/20 14:40
2-Methyl-2-propanol	4.82	Incomplete Integration	limwirojt	07/15/20 14:40
Acrylonitrile	4.99	Assign Peak	limwirojt	07/15/20 14:40
Methyl tert-butyl ether	5.07	Incomplete Integration	limwirojt	07/15/20 14:41
trans-1,2-Dichloroethene	5.08	Incomplete Integration	limwirojt	07/15/20 14:41
Hexane	5.64	Incomplete Integration	limwirojt	07/15/20 14:41
Isopropyl ether	6.06	Assign Peak	limwirojt	07/15/20 14:41
2,2-Dichloropropane	6.90	Incomplete Integration	limwirojt	07/15/20 14:41
Propionitrile	7.03	Incomplete Integration	limwirojt	07/15/20 14:42
Carbon tetrachloride	7.93	Incomplete Integration	limwirojt	07/15/20 14:42
Isobutyl alcohol	8.21	Incomplete Integration	limwirojt	07/15/20 14:42
1,2-Dichloroethane	8.27	Incomplete Integration	limwirojt	07/15/20 14:43
n-Butanol	9.27	Incomplete Integration	limwirojt	07/15/20 14:45
Methyl methacrylate	9.39	Incomplete Integration	limwirojt	07/15/20 14:46
Dibromomethane	9.40	Incomplete Integration	limwirojt	07/15/20 14:46
n-Butyl acetate	10.48	Incomplete Integration	limwirojt	07/15/20 14:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 332974

Lab Sample ID: IC 580-332974/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 07/14/20 15:42 Lab File ID: 07142020b\_003.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene	11.60	Incomplete Integration	limwirojt	07/15/20 14:46
trans-1,4-Dichloro-2-butene	12.68	Incomplete Integration	limwirojt	07/15/20 14:47
1,4-Dichlorobenzene	13.51	Incomplete Integration	limwirojt	07/15/20 14:47

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 332974Lab Sample ID: IC 580-332974/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/14/20 16:08 Lab File ID: 07142020b\_004.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.75	Incomplete Integration	limwirojt	07/15/20 14:48
Chloromethane	1.97	Incomplete Integration	limwirojt	07/15/20 14:48
Vinyl chloride	2.08	Incomplete Integration	limwirojt	07/15/20 14:49
Butadiene	2.12	Incomplete Integration	limwirojt	07/15/20 14:49
Bromomethane	2.48	Assign Peak	limwirojt	07/15/20 14:49
Chloroethane	2.59	Assign Peak	limwirojt	07/15/20 14:49
Dichlorofluoromethane	2.93	Incomplete Integration	limwirojt	07/15/20 14:49
Trichlorofluoromethane	2.96	Incomplete Integration	limwirojt	07/15/20 14:49
3-Chloro-1-propene	2.97	Incomplete Integration	limwirojt	07/15/20 14:50
Acrolein	3.53	Incomplete Integration	limwirojt	07/15/20 14:50
1,1-Dichloroethene	3.70	Incomplete Integration	limwirojt	07/15/20 14:50
1,1,2-Trichloro-1,2,2-trifluoroethane	3.75	Incomplete Integration	limwirojt	07/15/20 14:50
Acetone	3.75	Assign Peak	limwirojt	07/15/20 14:50
Iodomethane	3.90	Incomplete Integration	limwirojt	07/15/20 14:50
Carbon disulfide	4.03	Incomplete Integration	limwirojt	07/15/20 14:51
Isopropyl alcohol	4.07	Assign Peak	limwirojt	07/15/20 14:51
Methyl acetate	4.32	Incomplete Integration	limwirojt	07/15/20 14:51
Methylene Chloride	4.56	Incomplete Integration	limwirojt	07/15/20 14:56
2-Methyl-2-propanol	4.81	Incomplete Integration	limwirojt	07/15/20 14:56
Acrylonitrile	5.00	Incomplete Integration	limwirojt	07/15/20 14:56
Methyl tert-butyl ether	5.09	Incomplete Integration	limwirojt	07/15/20 14:56
Hexane	5.65	Incomplete Integration	limwirojt	07/15/20 14:56
Vinyl acetate	6.00	Incomplete Integration	limwirojt	07/15/20 14:57
2-Chloro-1,3-butadiene	6.04	Incomplete Integration	limwirojt	07/15/20 14:57
Tert-butyl ethyl ether	6.70	Incomplete Integration	limwirojt	07/15/20 14:57
2,2-Dichloropropane	6.92	Incomplete Integration	limwirojt	07/15/20 14:57
2-Butanone (MEK)	6.93	Incomplete Integration	limwirojt	07/15/20 14:57
Methacrylonitrile	7.28	Assign Peak	limwirojt	07/15/20 14:58
Chlorobromomethane	7.30	Incomplete Integration	limwirojt	07/15/20 14:58

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 332974Lab Sample ID: IC 580-332974/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/14/20 16:08 Lab File ID: 07142020b\_004.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butyl acetate	10.48	Assign Peak	limwirojt	07/15/20 14:59
Chlorobenzene	11.60	Assign Peak	limwirojt	07/15/20 14:59
1,4-Dichlorobenzene	13.51	Assign Peak	limwirojt	07/15/20 14:59

Lab Sample ID: IC 580-332974/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/14/20 16:35 Lab File ID: 07142020b\_005.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.74	Incomplete Integration	bohnc	07/15/20 08:56
Butadiene	2.12	Incomplete Integration	limwirojt	07/15/20 15:01
Bromomethane	2.50	Incomplete Integration	limwirojt	07/15/20 15:01
Chloroethane	2.61	Incomplete Integration	limwirojt	07/15/20 15:01
Trichlorofluoromethane	2.97	Incomplete Integration	limwirojt	07/15/20 15:01
Ethyl ether	3.34	Incomplete Integration	limwirojt	07/15/20 15:01
1,1-Dichloroethene	3.71	Incomplete Integration	limwirojt	07/15/20 15:02
1,1,2-Trichloro-1,2,2-trifluoroethane	3.75	Incomplete Integration	limwirojt	07/15/20 15:02
Iodomethane	3.91	Incomplete Integration	limwirojt	07/15/20 15:02
Carbon disulfide	4.03	Incomplete Integration	limwirojt	07/15/20 15:02
Methylene Chloride	4.56	Incomplete Integration	limwirojt	07/15/20 15:02
2-Methyl-2-propanol	4.82	Incomplete Integration	limwirojt	07/15/20 15:03
Acrylonitrile	4.99	Assign Peak	limwirojt	07/15/20 15:03
trans-1,2-Dichloroethene	5.06	Assign Peak	limwirojt	07/15/20 15:03
Methyl tert-butyl ether	5.09	Incomplete Integration	limwirojt	07/15/20 15:04
1,1-Dichloroethane	5.90	Incomplete Integration	limwirojt	07/15/20 15:04
Tert-butyl ethyl ether	6.71	Incomplete Integration	limwirojt	07/15/20 15:04
1,2-Dichloropropane	9.29	Incomplete Integration	limwirojt	07/15/20 15:09
Chlorobenzene	11.60	Incomplete Integration	limwirojt	07/15/20 15:09
1,4-Dichlorobenzene	13.51	Incomplete Integration	limwirojt	07/15/20 15:10

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 332974Lab Sample ID: IC 580-332974/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/14/20 17:01 Lab File ID: 07142020b\_006.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.72	Incomplete Integration	bohnc	07/15/20 08:57
Bromomethane	2.48	Incomplete Integration	limwirojt	07/15/20 15:14
3-Chloro-1-propene	2.97	Incomplete Integration	limwirojt	07/15/20 15:14
Trichlorofluoromethane	2.97	Incomplete Integration	limwirojt	07/15/20 15:14
1,1-Dichloroethene	3.71	Incomplete Integration	limwirojt	07/15/20 15:20
Carbon disulfide	4.02	Incomplete Integration	limwirojt	07/15/20 15:21
Isopropyl alcohol	4.05	Incomplete Integration	limwirojt	07/15/20 15:22
Methylene Chloride	4.56	Incomplete Integration	limwirojt	07/15/20 15:23
2-Methyl-2-propanol	4.82	Incomplete Integration	limwirojt	07/15/20 15:23
2,2-Dichloropropane	6.90	Incomplete Integration	limwirojt	07/15/20 15:24
1,2-Dichloropropane	9.29	Incomplete Integration	limwirojt	07/15/20 15:24

Lab Sample ID: IC 580-332974/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/14/20 17:27 Lab File ID: 07142020b\_007.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.72	Incomplete Integration	bohnc	07/15/20 09:01
Chloromethane	1.95	Incomplete Integration	limwirojt	07/15/20 15:26
Bromomethane	2.47	Incomplete Integration	limwirojt	07/15/20 15:26
Chloroethane	2.59	Incomplete Integration	limwirojt	07/15/20 15:26
Trichlorofluoromethane	2.95	Incomplete Integration	limwirojt	07/15/20 15:26
Isopropyl alcohol	4.07	Incomplete Integration	limwirojt	07/15/20 15:27
Acetonitrile	4.22	Split Peak	bohnc	07/15/20 09:21
Methylene Chloride	4.55	Incomplete Integration	limwirojt	07/15/20 15:27
2,2-Dichloropropane	6.91	Incomplete Integration	limwirojt	07/15/20 15:27
1,2-Dichloropropane	9.29	Incomplete Integration	limwirojt	07/15/20 15:28

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 332974Lab Sample ID: ICIS 580-332974/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/14/20 17:54 Lab File ID: 07142020b\_008.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.48	Baseline	bohnc	07/15/20 09:17
Trichlorofluoromethane	2.95	Assign Peak	limwirojt	07/15/20 14:21
3-Chloro-1-propene	2.99	Baseline	bohnc	07/15/20 09:17
1,1,2-Trichloro-1,2,2-trifluoroethane	3.75	Incomplete Integration	limwirojt	07/15/20 14:21
Acetonitrile	4.22	Incomplete Integration	limwirojt	07/15/20 14:21
Methylene Chloride	4.57	Incomplete Integration	limwirojt	07/15/20 14:22
1,2-Dichloropropane	9.29	Incomplete Integration	limwirojt	07/15/20 14:26

Lab Sample ID: IC 580-332974/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/14/20 18:21 Lab File ID: 07142020b\_009.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloropropane	9.29	Peak assignment corrected	limwirojt	07/15/20 15:42

Lab Sample ID: IC 580-332974/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 07/14/20 18:47 Lab File ID: 07142020b\_010.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.72	Incomplete Integration	bohnc	07/15/20 08:55
2,2-Dichloropropane	6.91	Peak assignment corrected	limwirojt	07/15/20 15:43
1,2-Dichloropropane	9.29	Peak assignment corrected	limwirojt	07/15/20 15:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 332974

Lab Sample ID: ICV 580-332974/13 Client Sample ID: \_\_\_\_\_

Date Analyzed: 07/14/20 20:07 Lab File ID: 07142020b\_013.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.72	Peak Tail	bohnc	07/15/20 09:52
Chloromethane	1.97	Incomplete Integration	bohnc	07/15/20 09:54
Vinyl chloride	2.08	Incomplete Integration	bohnc	07/15/20 09:54
Trichlorofluoromethane	2.98	Incomplete Integration	bohnc	07/15/20 09:53
Methylene Chloride	4.56	Peak assignment corrected	bohnc	07/15/20 09:52
2-Methyl-2-propanol	4.81	Incomplete Integration	bohnc	07/15/20 09:54
Vinyl acetate	5.98	Incomplete Integration	bohnc	07/15/20 09:55

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 335064Lab Sample ID: CCVIS 580-335064/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/07/20 13:00 Lab File ID: 08072020\_003.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Butadiene	2.13	Incomplete Integration	bohnc	08/07/20 15:44
Bromomethane	2.48	Incomplete Integration	bohnc	08/07/20 15:44
Trichlorofluoromethane	2.97	Incomplete Integration	bohnc	08/07/20 15:44
3-Chloro-1-propene	2.98	Incomplete Integration	bohnc	08/07/20 15:44
1,2-Dichloropropane	9.29	Incomplete Integration	bohnc	08/07/20 15:45

Lab Sample ID: LCS 580-335059/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 08/07/20 13:26 Lab File ID: 08072020\_004.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.96	Baseline	jantanuc	08/10/20 08:46
2,2-Dichloropropane	6.90	Baseline	jantanuc	08/10/20 08:47
1,2-Dichloropropane	9.29	Baseline	jantanuc	08/10/20 08:47

Lab Sample ID: LCS 580-335059/3-A Client Sample ID: \_\_\_\_\_Date Analyzed: 08/07/20 13:53 Lab File ID: 08072020\_005.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.48	Baseline	jantanuc	08/10/20 08:48
Trichlorofluoromethane	2.96	Baseline	jantanuc	08/10/20 08:48
1,2-Dichloropropane	9.29	Baseline	jantanuc	08/10/20 08:49



## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 335064Lab Sample ID: CCVL 580-335064/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/07/20 14:19 Lab File ID: 08072020\_006.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.71	Incomplete Integration	bohnc	08/07/20 16:02
Butadiene	2.12	Incomplete Integration	bohnc	08/07/20 16:02
Bromomethane	2.48	Incomplete Integration	bohnc	08/07/20 16:02
Trichlorofluoromethane	2.92	Incomplete Integration	bohnc	08/07/20 16:02
Dichlorofluoromethane	2.93	Incomplete Integration	bohnc	08/07/20 16:02
1,1-Dichloroethene	3.69	Baseline	jantanuc	08/10/20 08:50
1,1,2-Trichloro-1,2,2-trifluoroethane	3.75	Baseline	jantanuc	08/10/20 08:50
Iodomethane	3.90	Baseline	jantanuc	08/10/20 08:50
Carbon disulfide	4.03	Baseline	jantanuc	08/10/20 08:50
Isopropyl alcohol	4.05	Baseline	jantanuc	08/10/20 08:50
Acetonitrile	4.23	Baseline	jantanuc	08/10/20 08:50
Methyl acetate	4.31	Baseline	jantanuc	08/10/20 08:50
Acrylonitrile	5.00	Baseline	jantanuc	08/10/20 08:51
2,2-Dichloropropane	6.91	Baseline	jantanuc	08/10/20 08:51

Lab Sample ID: MB 580-335059/1-A Client Sample ID: \_\_\_\_\_Date Analyzed: 08/07/20 14:46 Lab File ID: 08072020\_007.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.54	Baseline	jantanuc	08/10/20 09:49
Benzene	8.21	Baseline	jantanuc	08/10/20 09:49
o-Xylene	12.12	Baseline	jantanuc	08/10/20 09:50

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 335064Lab Sample ID: 580-96357-5 Client Sample ID: Trip-Blank-01Date Analyzed: 08/07/20 16:40 Lab File ID: 08072020\_011.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.55	Baseline	jantanuc	08/10/20 10:18
4-Chlorotoluene		Invalid Compound ID	jantanuc	08/10/20 10:18
n-Butylbenzene		Invalid Compound ID	jantanuc	08/10/20 10:19

Lab Sample ID: 580-96357-1 Client Sample ID: AB-01A-9.0Date Analyzed: 08/07/20 20:12 Lab File ID: 08072020\_019.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.55	Baseline	jantanuc	08/10/20 10:23
Benzene	8.20	Baseline	jantanuc	08/10/20 10:23
Tetrachloroethene	10.81	Baseline	jantanuc	08/10/20 10:23
1,3,5-Trimethylbenzene	12.88	Baseline	jantanuc	08/10/20 10:24

Lab Sample ID: 580-96357-2 Client Sample ID: AB-02A-16.0Date Analyzed: 08/07/20 20:39 Lab File ID: 08072020\_020.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.08	Baseline	jantanuc	08/10/20 10:24
Methylene Chloride	4.56	Baseline	jantanuc	08/10/20 10:24
Benzene	8.20	Baseline	jantanuc	08/10/20 10:24
1,1,2-Trichloroethane		Invalid Compound ID	jantanuc	08/10/20 10:25
4-Chlorotoluene		Invalid Compound ID	jantanuc	08/10/20 10:26
Toluene	10.34	Baseline	jantanuc	08/10/20 10:25
o-Xylene	12.12	Baseline	jantanuc	08/10/20 10:25

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 335064Lab Sample ID: 580-96357-3 Client Sample ID: AB-03A-15.0Date Analyzed: 08/07/20 21:06 Lab File ID: 08072020\_021.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.57	Baseline	jantanuc	08/10/20 10:27
Benzene	8.19	Baseline	jantanuc	08/10/20 10:27
n-Butylbenzene		Invalid Compound ID	jantanuc	08/10/20 10:28

Lab Sample ID: 580-96357-4 Client Sample ID: AB-04A-14.0Date Analyzed: 08/07/20 21:32 Lab File ID: 08072020\_022.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.56	Baseline	jantanuc	08/10/20 10:28
Benzene	8.21	Baseline	jantanuc	08/10/20 10:29
Chloroform		Invalid Compound ID	jantanuc	08/10/20 10:28

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration				
					Reagent ID	Volume Added						
5X SUR/IS_00001							1,2-Dichloroethene, Total					
							1,3-Dichloropropene, Total					
							TAH					
							Tentatively Identified Compound					
							VOARSURR/IS_00048	10 mL	1,2-Dichloroethane-d4 (Surr)	50 ppm		
									1,4-Dichlorobenzene-d4	50 ppm		
									4-Bromofluorobenzene (Surr)	50 ppm		
									BFB	50 ppm		
									Chlorobenzene-d5	50 ppm		
									Dibromofluoromethane (Surr)	50 ppm		
									Fluorobenzene (IS)	50 ppm		
				TBA-d9 (IS)	1000 ppm							
				Toluene-d8 (Surr)	50 ppm							
.VOARSURR/IS_00048	10/31/22		Restek, Lot A0131478		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL				
							1,4-Dichlorobenzene-d4	250 ug/mL				
							4-Bromofluorobenzene (Surr)	250 ug/mL				
							BFB	250 ug/mL				
							Chlorobenzene-d5	250 ug/mL				
							Dibromofluoromethane (Surr)	250 ug/mL				
							Fluorobenzene (IS)	250 ug/mL				
							TBA-d9 (IS)	5000 ug/mL				
							Toluene-d8 (Surr)	250 ug/mL				
VOAMasterMix_00057	01/31/21	06/19/20	MeOH, Lot 230446	50 mL	8260 L2/S7_00018	1000 uL	Ethyl acetate	100 ug/mL				
							Ethyl acrylate	50 ug/mL				
							Methyl methacrylate	100 ug/mL				
							n-Butyl acetate	50 ug/mL				
							VOAR2CEVE_00021	1000 uL	2-Chloroethyl vinyl ether	50 ug/mL		
							VOARAcrolein_00061	750 uL	Acrolein	300 ug/mL		
							VOARADDCOM_00026	1000 uL	1,2,3-Trimethylbenzene	50 ug/mL		
									1,3,5-Trichlorobenzene	50 ug/mL		
									2-Chloro-1,3-butadiene	50 ug/mL		
									2-Nitropropane	100 ug/mL		
									Benzyl chloride	50 ug/mL		
									Isopropyl alcohol	500 ug/mL		
									Methacrylonitrile	500 ug/mL		
									n-Butanol	1250 ug/mL		
									VOARGAS_00024	1000 uL	Bromomethane	50 ug/mL
											Butadiene	50 ug/mL
							Chloroethane	50 ug/mL				
							Chloromethane	50 ug/mL				
							Dichlorodifluoromethane	50 ug/mL				
							Dichlorofluoromethane	50 ug/mL				
							VOARKETON_00026	1000 uL	Trichlorofluoromethane	50 ug/mL		
		Vinyl chloride	50 ug/mL									
		2-Butanone (MEK)	250 ug/mL									

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-96357-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	250 ug/mL
							Acetone	250 ug/mL
					VOARMegMix__00034	1000 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-96357-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOARPOLARAD_00019	1250 uL	Acetonitrile	625 ug/mL
							Isopropyl ether	62.5 ug/mL
							Propionitrile	625 ug/mL
							Tert-amyl methyl ether	62.5 ug/mL
							Tert-butyl ethyl ether	62.5 ug/mL
					VOARVA_00053	1250 uL	Vinyl acetate	125 ug/mL
.8260 L2/S7_00018	06/30/21		Restek, Lot A0156071			(Purchased Reagent)	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOAR2CEVE_00021	02/28/22		Restek, Lot A0146250			(Purchased Reagent)	2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcrolein_00061	07/31/21		Restek, Lot A0156861			(Purchased Reagent)	Acrolein	20000 ug/mL
.VOARADDCOM_00026	05/31/21		Restek, Lot A0154734			(Purchased Reagent)	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VOARGAS_00024	03/31/23		Restek, Lot A0159085			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOARKETON__00026	12/31/22		Restek, Lot A0156095			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARMegMix__00034	06/30/21		Restek, Lot A0143774			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VOARPOLARAD__00019	01/31/21		Restek, Lot A0144915			(Purchased Reagent)	Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARVA 00053	07/31/21		Restek, Lot A0156559			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
<b>VOAMasterMix_00058</b>	01/23/21	07/23/20	MeOH, Lot 230446	50 mL	8260 L2/S7_00018	1000 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					Methanol 1L 00038	40.75 mL	Methanol	815000 ug/mL
					VOAR2CEVE_00022	1000 uL	2-Chloroethyl vinyl ether	50 ug/mL
					VOARAcrolein 00062	750 uL	Acrolein	300 ug/mL
					VOARADDCOM_00026	1000 uL	1,2,3-Trimethylbenzene	50 ug/mL



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-96357-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VOARGAS__00024	1000 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
					VOARKETON__00026	1000 uL	2-Butanone (MEK)	250 ug/mL
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	250 ug/mL
							Acetone	250 ug/mL
					VOARMegMix__00034	1000 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-96357-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VOARPOLARAD_00019	1250 uL	Acetonitrile	625 ug/mL
							Isopropyl ether	62.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Propionitrile	625 ug/mL
							tert-amyl alcohol TIC	625 ug/mL
							Tert-amyl methyl ether	62.5 ug/mL
							Tert-butyl ethyl ether	62.5 ug/mL
.8260 L2/S7_00018	06/30/21		Restek, Lot A0156071		VOARVA_00053	1250 uL	Vinyl acetate	125 ug/mL
						(Purchased Reagent)	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Methanol 1L_00038	04/10/22		JT baker, Lot 0000230446			(Purchased Reagent)	Methanol	100 %
.VOAR2CEVE_00022	03/31/23		Restek, Lot A0158872			(Purchased Reagent)	2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcrolein_00062	07/31/21		Restek, Lot A0156859			(Purchased Reagent)	Acrolein	20000 ug/mL
.VOARADDCOM_00026	05/31/21		Restek, Lot A0154734			(Purchased Reagent)	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VOARGAS_00024	03/31/23		Restek, Lot A0159085			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOARKETON_00026	12/31/22		Restek, Lot A0156095			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARMegMix_00034	06/30/21		Restek, Lot A0143774			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-96357-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
.VOARPOLARAD__00019	01/31/21		Restek, Lot A0144915			(Purchased Reagent)	Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							tert-amyl alcohol TIC	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARVA__00053	07/31/21		Restek, Lot A0156559			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
<b>VOAMasterSEC_00051</b>	07/20/20	06/29/20	MeOH, Lot 230446	50 mL	VOASGAS2__00024	1000 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
					VOASMegMix2__00023	1000 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-96357-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
.VOASGAS2__00024	03/31/22		Restek, Lot A0147004			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOASMegMix2__00023	06/30/21		Restek, Lot A0144202			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
<b>VoaSand 00069</b>	04/07/25		JT Baker, Lot 0000243821			(Purchased Reagent)	Sieve Size #230	2500 g

Reagent

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**8260 L2/S7\_00018**





# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 570809 Lot No.: A0156071  
 Description : 8260 List 2 / Std #7  
8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul  
 Container Size : 2 mL Pkg Amt: > 1 mL  
 Expiration Date : June 30, 2021 Storage: 0°C or colder

  
 2593160  
 ID: 8260 L2/S7\_00018  
 Exp: 06/30/21 Prod: DCV  
 8260 List 2 / Stds #7

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Ethyl acetate	5,015.6 µg/mL (Lot SHBL1336)	+/-	29.3674	µg/mL	Gravimetric
	CAS # 141-78-6		+/-	302.6333	µg/mL	Unstressed
	Purity 99%		+/-	303.3517	µg/mL	Stressed
2	Ethyl acrylate	2,508.8 µg/mL (Lot 10129902)	+/-	14.7230	µg/mL	Gravimetric
	CAS # 140-88-5		+/-	151.3803	µg/mL	Unstressed
	Purity 99%		+/-	151.7396	µg/mL	Stressed
3	Methyl methacrylate	5,015.2 µg/mL (Lot MKCG6589)	+/-	29.3651	µg/mL	Gravimetric
	CAS # 80-62-6		+/-	302.6092	µg/mL	Unstressed
	Purity 99%		+/-	303.3275	µg/mL	Stressed
4	Butyl acetate	2,512.0 µg/mL (Lot SHBK5137)	+/-	14.7418	µg/mL	Gravimetric
	CAS # 123-86-4		+/-	151.5733	µg/mL	Unstressed
	Purity 99%		+/-	151.9331	µg/mL	Stressed

Solvent: P&T Methanol  
 CAS # 67-56-1  
 Purity 99%

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

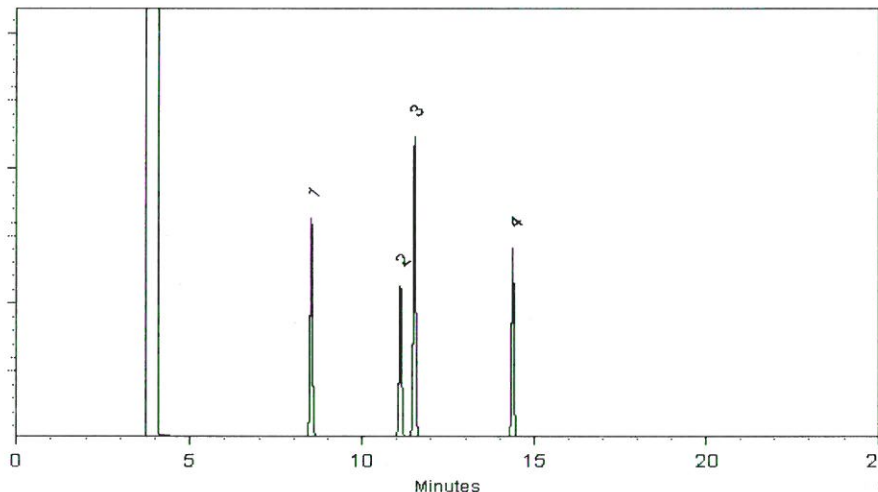
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Cydnei L. Crust*  
Cydnei L. Crust - Mix Technician

Date Mixed: 22-Dec-2019      Balance: B442140311

*Tyler Brown*  
Tyler Brown - Operations Tech-ARM QC

Date Passed: 26-Dec-2019

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOAR2CEVE\_\_00021**



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 569723 **Lot No.:** A0146250

**Description :** 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2022 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Chloroethyl vinyl ether CAS # 110-75-8 Purity 99% (Lot MKBS6526V)	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 53.5253 µg/mL +/- 55.0814 µg/mL Gravimetric Unstressed Stressed

**Solvent:** P&T Methanol  
CAS # 67-56-1  
Purity 99%

#### Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

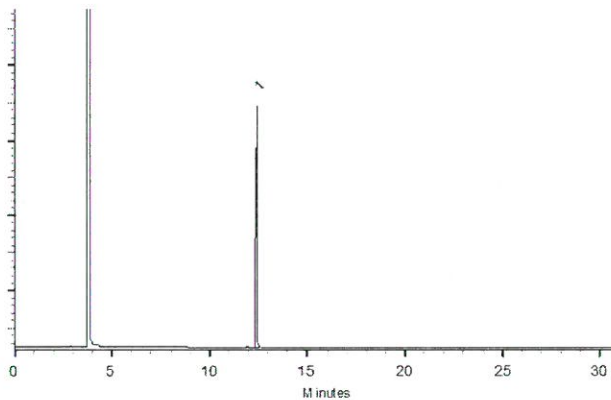
200°C

**Det. Temp:**

250°C

**Det. Type:**

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 20-Feb-2019

Balance: B251644995

  
Justine Albertson - Operations Tech-ARM GC

Date Passed: 22-Feb-2019

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOAR2CEVE\_\_00022**



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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 569723 **Lot No.:** A0158872

**Description :** 8260 List 1 / Std #4 2-CEVE (2015)  
8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2023 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Chloroethyl vinyl ether CAS # 110-75-8 Purity 99%	2,500.5 µg/mL (Lot MKBS6526V)	+/- 14.5381 µg/mL +/- 53.5360 µg/mL +/- 55.0924 µg/mL
			Gravimetric Unstressed Stressed

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

#### Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

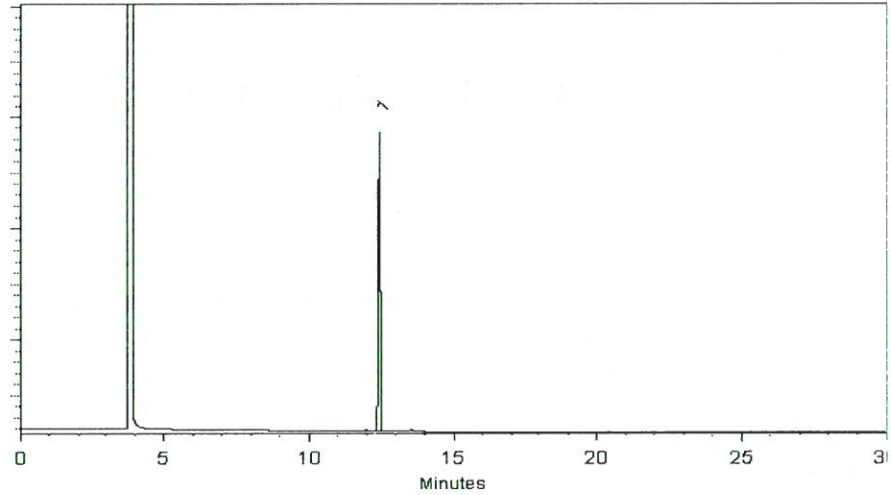
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jessica McClenahan - Operations Technician I

**Date Mixed:** 16-Mar-2020

**Balance:** B707717271

Tyler Brown - Operations Tech-ARM QC

**Date Passed:** 18-Mar-2020

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



Reagent

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**VOARAcrolein\_00061**

# RESTEK® CERTIFIED REFERENCE MATERIAL

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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 568720 Lot No.: A0156861  
 Description : 8260 List 1/Std #5 Acrolein High  
8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul  
 Container Size : 2 mL Pkg Amt: > 1 mL  
 Expiration Date : July 31, 2021 Storage: 0°C or colder  
 Handling: This product is photosensitive.

  
 2622724  
 ID: VOARAcrolein\_00061  
 Exp 07/31/21 Prpd ASJ Opn 05/22/20  
 8260 List 1 Std/#5 Acrolein

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acrolein CAS # 107-02-8 Purity 99% (Lot D0012019-1219)	19,752.0 µg/mL	+/- 115.6523 µg/mL Gravimetric +/- 394.5922 µg/mL Unstressed +/- 885.2572 µg/mL Stressed

Solvent: Water  
 CAS # 7732-18-5  
 Purity 99%

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

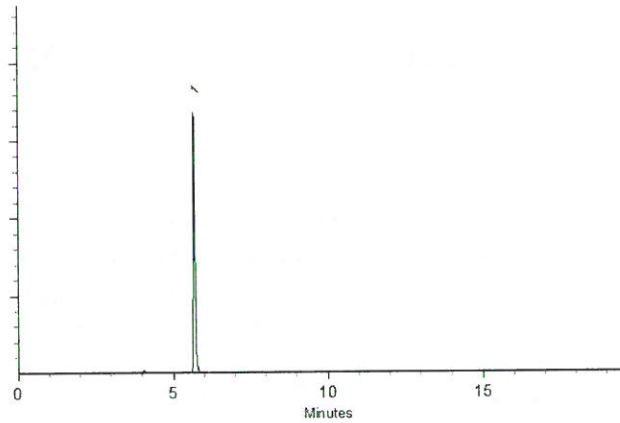
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Cathleen Soltis*

Cathleen Soltis - Mix Technician

Date Mixed: 17-Jan-2020

Balance: B251644995

*Justine Alberson*  
Justine Alberson - Operations Tech-ARM QC

Date Passed: 21-Jan-2020

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARAcrolein\_00062**



# CERTIFIED REFERENCE MATERIAL

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 568720 Lot No.: A0156859

Description : 8260 List 1/Std #5 Acrolein High  
8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : July 31, 2021 Storage: 0°C or colder

Handling: This product is photosensitive.



2663985  
ID: VOARAcrolein\_00062  
Exp 07/31/21 Prip JSM Opm 07/23/20  
8260 List 1 Std/#5 Acrole

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acrolein CAS # 107-02-8 Purity 99%	19,830.0 µg/mL (Lot D0012019-1219)	+/- 116.1090 µg/mL Gravimetric +/- 396.1504 µg/mL Unstressed +/- 888.7531 µg/mL Stressed

Solvent: Water  
CAS # 7732-18-5  
Purity 99%

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

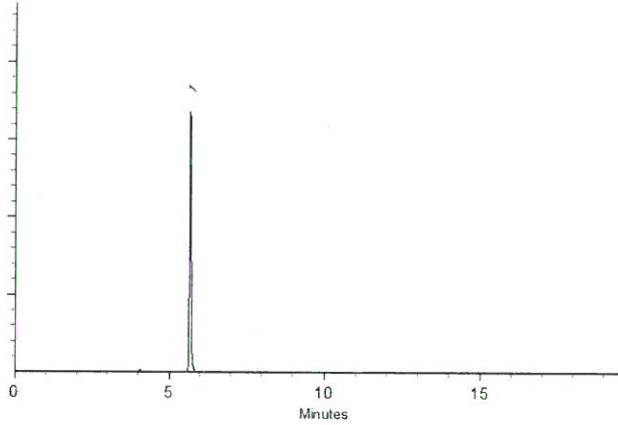
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Tom Suckar - Mix Technician

Date Mixed: 17-Jan-2020

Balance: B707717271

  
Justine Albertson - Operations Tech-ARM QC

Date Passed: 21-Jan-2020

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARADDCOM\_\_00026**



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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 570808 Lot No.: A0154734  
 Description : 8260 List 2 / Std #6  
8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul  
 Container Size : 2 mL Pkg Amt: > 1 mL  
 Expiration Date : May 31, 2021 Storage: 0°C or colder



2593150  
 ID: VOARADDCOM\_00026  
 Exp: 05/31/21 Prpd: DCV  
 8260 List 2/ Std #6

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2-Propanol (isopropanol) CAS # 67-63-0 (Lot SHBH7211) Purity 99%	25,135.0 µg/mL	+/- 147.1710 µg/mL	+/- 1,243.4963 µg/mL	+/- 1,274.4109 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 (Lot 190814JLM) Purity 99%	2,523.5 µg/mL	+/- 14.8093 µg/mL	+/- 124.8483 µg/mL	+/- 127.9520 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile CAS # 126-98-7 (Lot 1012019) Purity 99%	25,164.0 µg/mL	+/- 147.3408 µg/mL	+/- 1,244.9310 µg/mL	+/- 1,275.8813 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) CAS # 540-84-1 (Lot SHBD2922V) Purity 99%	2,512.0 µg/mL	+/- 14.7418 µg/mL	+/- 124.2794 µg/mL	+/- 127.3689 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol CAS # 71-36-3 (Lot SHBK4786) Purity 99%	63,024.5 µg/mL	+/- 369.0033 µg/mL	+/- 3,117.9899 µg/mL	+/- 3,195.5065 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane CAS # 79-46-9 (Lot BCBL0537V) Purity 98%	5,009.8 µg/mL	+/- 29.3332 µg/mL	+/- 247.8464 µg/mL	+/- 254.0081 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane CAS # 544-10-5 (Lot BCBS3368V) Purity 98%	2,516.6 µg/mL	+/- 14.7691 µg/mL	+/- 124.5090 µg/mL	+/- 127.6042 µg/mL	Gravimetric Unstressed Stressed



8	1,2,3-Trimethylbenzene CAS # 526-73-8 Purity 98%	(Lot 877605-12)	2,510.3 µg/mL	+/- 14.7317 +/- 124.1938 +/- 127.2812	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride CAS # 100-44-7 Purity 99%	(Lot SHBH2102V)	2,516.0 µg/mL	+/- 14.7653 +/- 124.4773 +/- 127.5717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene CAS # 108-70-3 Purity 99%	(Lot 11319AS)	2,523.0 µg/mL	+/- 14.8064 +/- 124.8236 +/- 127.9267	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
<b>Solvent:</b> P&T Methanol						
CAS # 67-56-1						
Purity 99%						

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

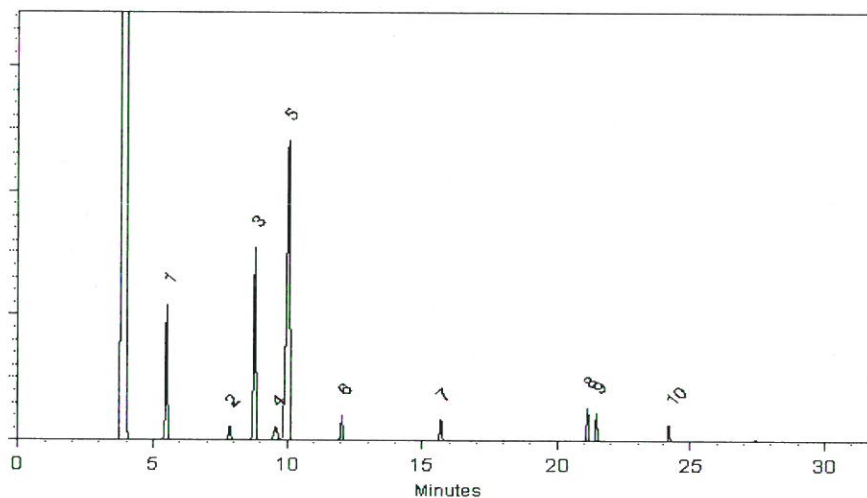
200°C

**Det. Temp:**

250°C

**Det. Type:**

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Tom Suckar - Mix Technician

Date Mixed: 05-Nov-2019 Balance: B707717271

  
Fang-Yun Li - QC Analyst

Date Passed: 07-Nov-2019

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARGAS\_\_00024**



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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 569722 **Lot No.:** A0159085

**Description :** 8260 List 1 / Std #3 Gases (2015)  
8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2023 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dichlorodifluoromethane (CFC-12)	2,502.3 µg/mL	+/-	16.4178	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/-	140.5076	µg/mL	Unstressed
	Purity 99%		+/-	143.7858	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,500.6 µg/mL	+/-	16.3299	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/-	140.4038	µg/mL	Unstressed
	Purity 99%		+/-	143.6799	µg/mL	Stressed
3	Vinyl chloride	2,500.2 µg/mL	+/-	17.2154	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/-	140.4890	µg/mL	Unstressed
	Purity 99%		+/-	143.7623	µg/mL	Stressed
4	1,3-Butadiene	2,500.7 µg/mL	+/-	17.6652	µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBK2299)		+/-	140.5681	µg/mL	Unstressed
	Purity 99%		+/-	143.8406	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,501.2 µg/mL	+/-	16.4034	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/-	140.4450	µg/mL	Unstressed
	Purity 99%		+/-	143.7217	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,500.3 µg/mL	+/-	17.7279	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/-	140.5555	µg/mL	Unstressed
	Purity 99%		+/-	143.8274	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 8582700)		+/-	140.1725	µg/mL	Unstressed
	Purity 99%		+/-	143.4524	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)	2,501.4 µg/mL	+/- 16.0800	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot MKCJ8658)		+/- 140.4203	µg/mL	Unstressed
	Purity 99%		+/- 143.6982	µg/mL	Stressed

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

**Tech Tips:**

Raw material may contain trace amounts of tert-Butanol.

**Column:**  
60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

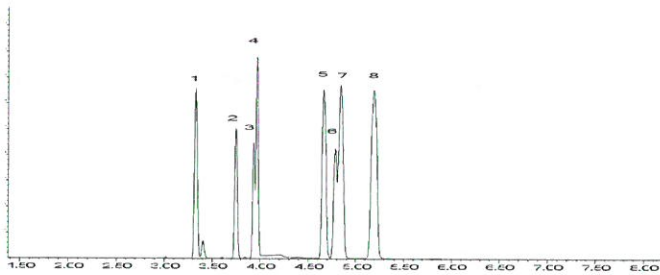
**Carrier Gas:**  
helium-constant pressure 30 psi

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Tom Suckar*  
Tom Suckar - Mix Technician

**Date Mixed:** 23-Mar-2020      **Balance:** B707717271

*Jennifer A Pollino*  
Jennifer Pollino - Operations Tech-ARM QC

**Date Passed:** 26-Mar-2020

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARKETON\_\_00026**



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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 569721 **Lot No.:** A0156095

**Description :** 8260 List 1/ Std #2 Ketones (2015)  
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2022 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	12,523.3 µg/mL (Lot MKCK2598)	+/-	72.8113	µg/mL Gravimetric
	CAS # 67-64-1		+/-	755.5832	µg/mL Unstressed
	Purity 99%		+/-	757.3770	µg/mL Stressed
2	2-Butanone (MEK)	12,532.3 µg/mL (Lot SHBK5945)	+/-	72.8636	µg/mL Gravimetric
	CAS # 78-93-3		+/-	756.1262	µg/mL Unstressed
	Purity 99%		+/-	757.9213	µg/mL Stressed
3	4-Methyl-2-pentanone (MIBK)	12,531.8 µg/mL (Lot SHBK5017)	+/-	72.8607	µg/mL Gravimetric
	CAS # 108-10-1		+/-	756.0960	µg/mL Unstressed
	Purity 99%		+/-	757.8911	µg/mL Stressed
4	2-Hexanone	12,531.5 µg/mL (Lot MKCG5905)	+/-	72.8592	µg/mL Gravimetric
	CAS # 591-78-6		+/-	756.0809	µg/mL Unstressed
	Purity 99%		+/-	757.8760	µg/mL Stressed

**Solvent:** P&T Methanol/Water (90:10)  
**CAS #** 67-56-1/7732-18-5  
**Purity** 99%

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

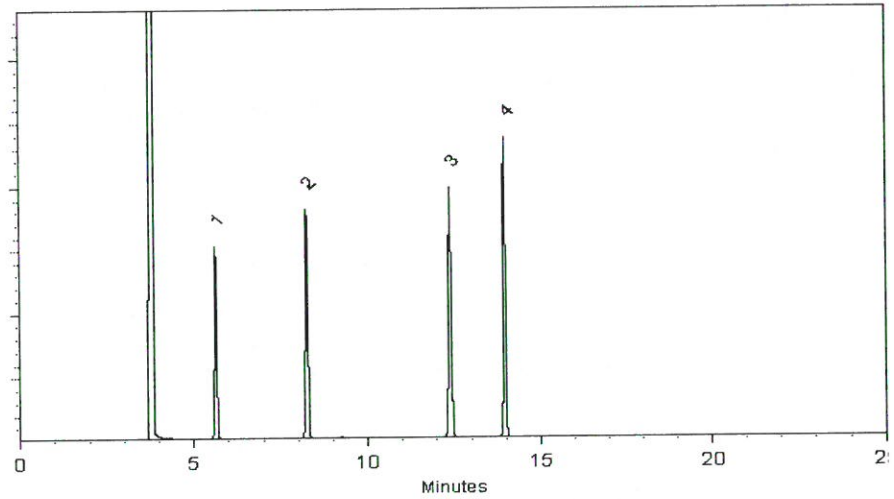
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Miranda Kline*

Miranda Kline - Operations Technician I

**Date Mixed:** 23-Dec-2019

**Balance:** B251644995

*Tyler Brown*

Tyler Brown - Operations Tech-ARM QC

**Date Passed:** 26-Dec-2019

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARMegMix\_\_00034**





# CERTIFIED REFERENCE MATERIAL

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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 571992 Lot No.: A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : June 30, 2021 Storage: 0°C or colder

2593111  
ID: VOARMegMix\_00034  
Exp 06/30/21 Prep Dcv  
8260 List 1/ Std #1 MegaM

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Diethyl ether (ethyl ether) CAS # 60-29-7 (Lot SHBJ5713) Purity 99%	2,500.6 µg/mL	+/- 14.5388	µg/mL	Gravimetric	
			+/- 150.8738	µg/mL	Unstressed	
			+/- 151.2320	µg/mL	Stressed	
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1 (Lot 00009482) Purity 99%	2,501.6 µg/mL	+/- 14.5447	µg/mL	Gravimetric	
			+/- 150.9341	µg/mL	Unstressed	
			+/- 151.2925	µg/mL	Stressed	
3	1,1-dichloroethene CAS # 75-35-4 (Lot SHBG8609V) Purity 99%	2,501.9 µg/mL	+/- 14.5461	µg/mL	Gravimetric	
			+/- 150.9492	µg/mL	Unstressed	
			+/- 151.3076	µg/mL	Stressed	
4	tert-Butanol (TBA) CAS # 75-65-0 (Lot SHBJ9404) Purity 99%	25,008.1 µg/mL	+/- 145.3918	µg/mL	Gravimetric	
			+/- 1,508.8503	µg/mL	Unstressed	
			+/- 1,512.4325	µg/mL	Stressed	
5	Methyl acetate CAS # 79-20-9 (Lot SHBG4345V) Purity 99%	5,000.8 µg/mL	+/- 29.0748	µg/mL	Gravimetric	
			+/- 301.7174	µg/mL	Unstressed	
			+/- 302.4337	µg/mL	Stressed	
6	Iodomethane (methyl iodide) CAS # 74-88-4 (Lot SHBH4362V) Purity 99%	2,500.6 µg/mL	+/- 14.5388	µg/mL	Gravimetric	
			+/- 150.8738	µg/mL	Unstressed	
			+/- 151.2320	µg/mL	Stressed	
7	Allyl chloride ( 3-chloropropene ) CAS # 107-05-1 (Lot WXBB7852V) Purity 99%	2,502.0 µg/mL	+/- 14.5468	µg/mL	Gravimetric	
			+/- 150.9567	µg/mL	Unstressed	
			+/- 151.3151	µg/mL	Stressed	

8	Methylene chloride (dichloromethane)		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b> 75-09-2	(Lot SHBK5095)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2395	µg/mL	Stressed
9	Carbon disulfide		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	<b>CAS #</b> 75-15-0	(Lot U22D706)			+/-	150.9040	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2622	µg/mL	Stressed
10	Acrylonitrile		25,010.4	µg/mL	+/-	145.4049	µg/mL	Gravimetric
	<b>CAS #</b> 107-13-1	(Lot R15D047)			+/-	1,508.9860	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	1,512.5686	µg/mL	Stressed
11	Methyl-tert-butyl ether ( MTBE )		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	<b>CAS #</b> 1634-04-4	(Lot SHBH9526)			+/-	150.8512	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2093	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	<b>CAS #</b> 156-59-2	(Lot MKBX5945V)			+/-	150.9115	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2698	µg/mL	Stressed
13	n-Hexane (C6)		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b> 110-54-3	(Lot SHBH8106)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2395	µg/mL	Stressed
14	1,1-Dichloroethane		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	<b>CAS #</b> 75-34-3	(Lot 462600)			+/-	150.8587	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2169	µg/mL	Stressed
15	2,2-Dichloropropane		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	<b>CAS #</b> 594-20-7	(Lot BCBT5124)			+/-	150.8889	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2471	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	<b>CAS #</b> 156-60-5	(Lot MKBH9850V)			+/-	150.8512	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2093	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,500.9	µg/mL	+/-	363.3665	µg/mL	Gravimetric
	<b>CAS #</b> 78-83-1	(Lot SHBK0551)			+/-	3,770.9529	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	3,779.9058	µg/mL	Stressed
18	chloroform		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	<b>CAS #</b> 67-66-3	(Lot SHBJ9076)			+/-	150.8662	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2244	µg/mL	Stressed
19	Bromochloromethane		2,500.6	µg/mL	+/-	14.5387	µg/mL	Gravimetric
	<b>CAS #</b> 74-97-5	(Lot 00008541)			+/-	150.8718	µg/mL	Unstressed
	<b>Purity</b> 98%				+/-	151.2300	µg/mL	Stressed
20	Tetrahydrofuran		5,000.6	µg/mL	+/-	29.0741	µg/mL	Gravimetric
	<b>CAS #</b> 109-99-9	(Lot SHBJ6179)			+/-	301.7099	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	302.4262	µg/mL	Stressed
21	1,1,1-trichloroethane		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b> 71-55-6	(Lot B15W12061)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2395	µg/mL	Stressed
22	Cyclohexane		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	<b>CAS #</b> 110-82-7	(Lot MKCC9660)			+/-	150.8889	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2471	µg/mL	Stressed
23	1,1-Dichloropropene		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	<b>CAS #</b> 563-58-6	(Lot 180531JLM)			+/-	150.8738	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2320	µg/mL	Stressed

24	carbon tetrachloride <b>CAS #</b> 56-23-5 <b>Purity</b> 99%	(Lot SHBJ2110)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) <b>CAS #</b> 142-82-5 <b>Purity</b> 99%	(Lot SHBJ2424)	2,501.6	µg/mL	+/- +/- +/-	14.5447 150.9341 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane <b>CAS #</b> 107-06-2 <b>Purity</b> 99%	(Lot SHBJ0707)	2,501.3	µg/mL	+/- +/- +/-	14.5425 150.9115 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene <b>CAS #</b> 71-43-2 <b>Purity</b> 99%	(Lot SHBJ5344)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene <b>CAS #</b> 79-01-6 <b>Purity</b> 99%	(Lot SHBH1955V)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane <b>CAS #</b> 108-87-2 <b>Purity</b> 99%	(Lot SHBJ0457)	2,501.6	µg/mL	+/- +/- +/-	14.5447 150.9341 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane <b>CAS #</b> 78-87-5 <b>Purity</b> 99%	(Lot BCBR0882V)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane <b>CAS #</b> 123-91-1 <b>Purity</b> 99%	(Lot SHBJ7415)	50,001.1	µg/mL	+/- +/- +/-	290.6957 3,016.7880 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane <b>CAS #</b> 74-95-3 <b>Purity</b> 99%	(Lot 10201030)	2,502.0	µg/mL	+/- +/- +/-	14.5468 150.9567 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene <b>CAS #</b> 10061-01-5 <b>Purity</b> 99%	(Lot 25076)	2,501.4	µg/mL	+/- +/- +/-	14.5432 150.9190 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene <b>CAS #</b> 108-88-3 <b>Purity</b> 99%	(Lot SHBJ5659)	2,500.1	µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate <b>CAS #</b> 97-63-2 <b>Purity</b> 99%	(Lot 69796APV)	2,502.8	µg/mL	+/- +/- +/-	14.5512 151.0020 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene <b>CAS #</b> 10061-02-6 <b>Purity</b> 98%	(Lot C797620)	2,500.6	µg/mL	+/- +/- +/-	14.5387 150.8718 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane <b>CAS #</b> 79-00-5 <b>Purity</b> 99%	(Lot FGB01)	2,500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane <b>CAS #</b> 142-28-9 <b>Purity</b> 99%	(Lot BCBG2162V)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene <b>CAS #</b> 127-18-4 <b>Purity</b> 99%	(Lot SHBH9691)	2,501.0	µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed



40	dibromochloromethane		2,502.4	µg/mL	+/-	14.5493	µg/mL	Gravimetric
	<b>CAS #</b>	124-48-1	(Lot MKCC0877)		+/-	150.9827	µg/mL	Unstressed
	<b>Purity</b>	98%			+/-	151.3411	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	<b>CAS #</b>	106-93-4	(Lot BCBH3877V)		+/-	150.8587	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	151.2169	µg/mL	Stressed
42	Chlorobenzene		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	<b>CAS #</b>	108-90-7	(Lot SHBH4459V)		+/-	150.9040	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	151.2622	µg/mL	Stressed
43	m-Xylene		1,251.5	µg/mL	+/-	7.2763	µg/mL	Gravimetric
	<b>CAS #</b>	108-38-3	(Lot SHBJ2338)		+/-	75.5085	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	75.6878	µg/mL	Stressed
44	p-Xylene		1,250.1	µg/mL	+/-	7.2683	µg/mL	Gravimetric
	<b>CAS #</b>	106-42-3	(Lot SHBJ0052)		+/-	75.4256	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	75.6047	µg/mL	Stressed
45	Ethylbenzene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	<b>CAS #</b>	100-41-4	(Lot SHBJ3183)		+/-	150.8361	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	151.1942	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	<b>CAS #</b>	630-20-6	(Lot MKBS3769V)		+/-	150.8361	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	151.1942	µg/mL	Stressed
47	o-Xylene		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b>	95-47-6	(Lot SHBH7231)		+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	151.2395	µg/mL	Stressed
48	Styrene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	<b>CAS #</b>	100-42-5	(Lot MKCC9766)		+/-	150.8361	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	151.1942	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	<b>CAS #</b>	98-82-8	(Lot 10185056)		+/-	150.8436	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	151.2017	µg/mL	Stressed
50	bromoform		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	<b>CAS #</b>	75-25-2	(Lot SHBG3138V)		+/-	150.8964	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	151.2547	µg/mL	Stressed
51	bromodichloromethane		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	<b>CAS #</b>	75-27-4	(Lot MKCF8470)		+/-	150.9341	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	151.2925	µg/mL	Stressed
52	1,1,1,2-Tetrachloroethane		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	<b>CAS #</b>	79-34-5	(Lot CFA4D)		+/-	150.8662	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	151.2244	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	<b>CAS #</b>	96-18-4	(Lot BCBH8722V)		+/-	150.9115	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	151.2698	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,500.0	µg/mL	+/-	14.5355	µg/mL	Gravimetric
	<b>CAS #</b>	110-57-6	(Lot MKBX7788V)		+/-	150.8389	µg/mL	Unstressed
	<b>Purity</b>	94%			+/-	151.1971	µg/mL	Stressed
55	n-Propylbenzene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	<b>CAS #</b>	103-65-1	(Lot WXBC3346V)		+/-	150.8361	µg/mL	Unstressed
	<b>Purity</b>	99%			+/-	151.1942	µg/mL	Stressed

56	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot WXBC5147V)	2,500.1 µg/mL	+/-	14.5359 µg/mL 150.8436 µg/mL 151.2017 µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBS7648V)	2,500.5 µg/mL	+/-	14.5381 µg/mL 150.8662 µg/mL 151.2244 µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKBW5554V)	2,500.1 µg/mL	+/-	14.5359 µg/mL 150.8436 µg/mL 151.2017 µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKBL7753V)	2,500.9 µg/mL	+/-	14.5403 µg/mL 150.8889 µg/mL 151.2471 µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot STBD6954V)	2,500.1 µg/mL	+/-	14.5359 µg/mL 150.8436 µg/mL 151.2017 µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 97%	(Lot MKBH5027V)	2,499.9 µg/mL	+/-	14.5348 µg/mL 150.8320 µg/mL 151.1901 µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKBR9260V)	2,501.1 µg/mL	+/-	14.5418 µg/mL 150.9040 µg/mL 151.2622 µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKBV3556V)	2,501.1 µg/mL	+/-	14.5418 µg/mL 150.9040 µg/mL 151.2622 µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBQ7100V)	2,501.4 µg/mL	+/-	14.5432 µg/mL 150.9190 µg/mL 151.2773 µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBS4401V)	2,501.5 µg/mL	+/-	14.5439 µg/mL 150.9266 µg/mL 151.2849 µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09804AE)	2,501.0 µg/mL	+/-	14.5410 µg/mL 150.8964 µg/mL 151.2547 µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot SHBG3111V)	2,502.9 µg/mL	+/-	14.5519 µg/mL 151.0095 µg/mL 151.3681 µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 99%	(Lot FBL01)	2,502.0 µg/mL	+/-	14.5468 µg/mL 150.9567 µg/mL 151.3151 µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBJ9215)	2,502.1 µg/mL	+/-	14.5476 µg/mL 150.9643 µg/mL 151.3227 µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 99%	(Lot J31X013)	2,501.5 µg/mL	+/-	14.5439 µg/mL 150.9266 µg/mL 151.2849 µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBZ8680V)	2,502.8 µg/mL	+/-	14.5512 µg/mL 151.0020 µg/mL 151.3605 µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/- 14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/- 150.9869	µg/mL	Unstressed
	Purity 99%			+/- 151.3454	µg/mL	Stressed

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

**Column:**  
60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

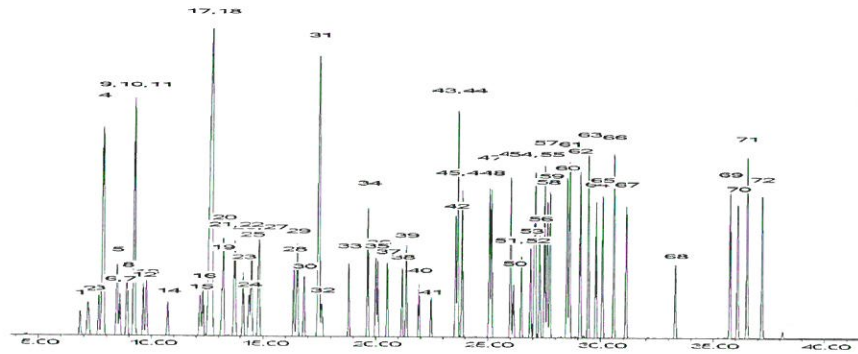
**Carrier Gas:**  
helium-constant pressure 30 psi

**Temp. Program:**  
40°C (hold 6 min.) to 240°C  
@ 6°C/min. (hold 10 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*F. Joseph Tallon*  
F. Joseph Tallon - Mix Technician

**Date Mixed:** 05-Dec-2018      **Balance:** B251644995

*Diane Shaffer*  
Diane Shaffer - Operations Tech-ARM QC

**Date Passed:** 21-Dec-2018

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARPOLARAD\_\_00019**



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*



2593155  
ID: VOARPOLARAD\_00019  
Exp: 01/31/21 Prpd. DCV  
8260 LIST 3 / Std #1 Pola

**Catalog No. :** 571993 **Lot No.:** A0144915

**Description :** 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2021 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acetonitrile	25,249.0 µg/mL	+/-	147.8384	µg/mL	Gravimetric
	CAS # 75-05-8 (Lot SHBH6233)		+/-	1,249.1362	µg/mL	Unstressed
	Purity 99%		+/-	1,280.1910	µg/mL	Stressed
2	Diisopropyl ether ( DIPE )	2,524.3 µg/mL	+/-	14.8142	µg/mL	Gravimetric
	CAS # 108-20-3 (Lot SHBH1927V)		+/-	124.8896	µg/mL	Unstressed
	Purity 99%		+/-	127.9943	µg/mL	Stressed
3	Ethyl-tert-butyl ether (ETBE)	2,524.3 µg/mL	+/-	14.8142	µg/mL	Gravimetric
	CAS # 637-92-3 (Lot MKCC2702)		+/-	124.8896	µg/mL	Unstressed
	Purity 99%		+/-	127.9943	µg/mL	Stressed
4	Propionitrile	25,249.7 µg/mL	+/-	147.8424	µg/mL	Gravimetric
	CAS # 107-12-0 (Lot BCBV8545)		+/-	1,249.1692	µg/mL	Unstressed
	Purity 99%		+/-	1,280.2248	µg/mL	Stressed
5	tert-Amyl alcohol	25,249.0 µg/mL	+/-	147.8384	µg/mL	Gravimetric
	CAS # 75-85-4 (Lot STBG1140V)		+/-	1,249.1362	µg/mL	Unstressed
	Purity 99%		+/-	1,280.1910	µg/mL	Stressed
6	tert-Amyl methyl ether (TAME)	2,523.7 µg/mL	+/-	14.8103	µg/mL	Gravimetric
	CAS # 994-05-8 (Lot HMBF8365V)		+/-	124.8566	µg/mL	Unstressed
	Purity 99%		+/-	127.9605	µg/mL	Stressed



**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

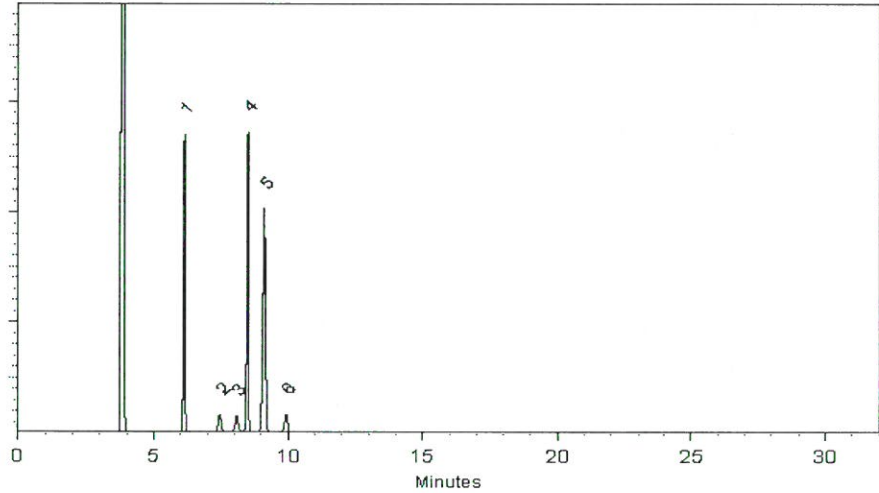
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Jessica McClenahan*

Jessica McClenahan - Operations Technician I

**Date Mixed:** 14-Jan-2019

**Balance:** B251644995

*Jennifer J Pollino*

Jennifer Pollino - Operations Tech-ARM QC

**Date Passed:** 16-Jan-2019

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARSURR/IS\_00048**



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 570812 Lot No.: A0131478

Description : 8260 IS/Surrogate Mix (2016)

8260 IS/Surrogate Mix (2016) 250-5,000µg/mL, P&T Methanol, - 5mL/ampul

Container Size : 5 mL Pkg Amt: > 5 mL

Expiration Date : October 31, 2022 Storage: 0°C or colder

*Approved HDK 6-15-18*

2180791  
ID: VOARSURR/IS\_00048  
Exp: 10/31/22 Prpd: HDK  
8260 IS/Surrogate Mix (20)

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	tert-Butyl-d9-alcohol	5,017.3 µg/mL	+/-	29.1695	µg/mL	Gravimetric
	CAS # 25725-11-5 (Lot CD-107)		+/-	107.4207	µg/mL	Unstressed
	Purity 98%		+/-	110.5436	µg/mL	Stressed
2	Dibromofluoromethane	249.0 µg/mL	+/-	1.4511	µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 0012017)		+/-	5.3320	µg/mL	Unstressed
	Purity 99.8%		+/-	5.4870	µg/mL	Stressed
3	1,2-Dichloroethane-d4	249.6 µg/mL	+/-	1.4545	µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-26748)		+/-	5.3449	µg/mL	Unstressed
	Purity 99%		+/-	5.5002	µg/mL	Stressed
4	1,4-Dioxane-d8	4,979.2 µg/mL	+/-	28.9478	µg/mL	Gravimetric
	CAS # 17647-74-4 (Lot I-19942)		+/-	106.6041	µg/mL	Unstressed
	Purity 99%		+/-	109.7033	µg/mL	Stressed
5	Fluorobenzene	250.0 µg/mL	+/-	1.4567	µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBK8171V)		+/-	5.3527	µg/mL	Unstressed
	Purity 99%		+/-	5.5083	µg/mL	Stressed
6	Toluene-d8	249.2 µg/mL	+/-	1.4522	µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-26623)		+/-	5.3363	µg/mL	Unstressed
	Purity 99%		+/-	5.4914	µg/mL	Stressed
7	Chlorobenzene-d5	249.6 µg/mL	+/-	1.4545	µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-23926)		+/-	5.3449	µg/mL	Unstressed
	Purity 99%		+/-	5.5002	µg/mL	Stressed

8	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 Purity 99%	(Lot 20401KOV)	248.5 µg/mL	+/- 1.4481 +/- 5.3213 +/- 5.4760	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 Purity 99%	(Lot PR-18488)	249.5 µg/mL	+/- 1.4540 +/- 5.3427 +/- 5.4980	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
<b>Solvent:</b> P&T Methanol						
CAS # 67-56-1						
Purity 99%						

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

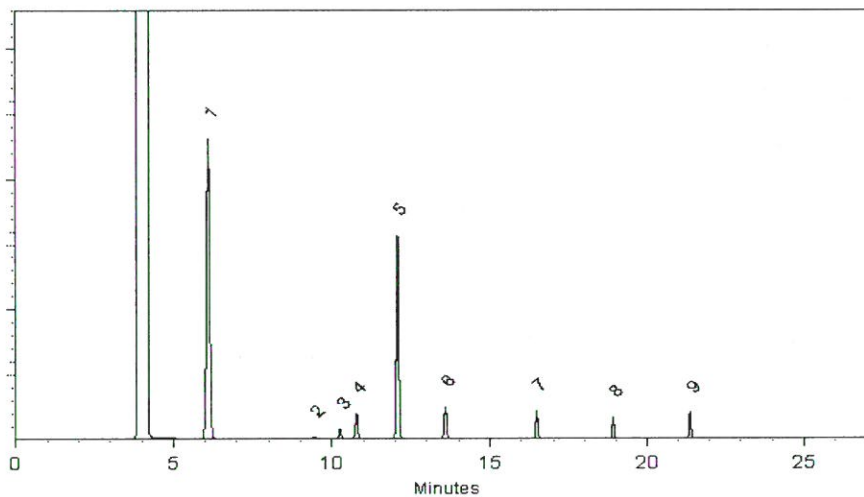
200°C

**Det. Temp:**

250°C

**Det. Type:**

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Cydnei L. Crust*  
Cydnei L. Crust - Mix Technician

Date Mixed: 09-Oct-2017

Balance: B707717271

*Jennifer L. Pollino*  
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 24-Oct-2017

Manufactured under Restek's ISO 9001:2008  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARVA\_00053**



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 569724 **Lot No.:** A0156559

**Description :** 8260 List 1 / Std #6 Vinyl Acetate (2015)  
8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2021 **Storage:** 0°C or colder

**Handling:** This product is photosensitive.

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Vinyl acetate CAS # 108-05-4 Purity 99%	5,040.0 µg/mL (Lot 192709KJ)	+/- 29.5103 µg/mL Gravimetric +/- 304.1056 µg/mL Unstressed +/- 304.8275 µg/mL Stressed

**Solvent:** P&T Methanol  
CAS # 67-56-1  
Purity 99%

#### Specific Reference Material Notes:

08 April 2020  
Expiration date extended from July 31, 2020 to July 31, 2021.

#### Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

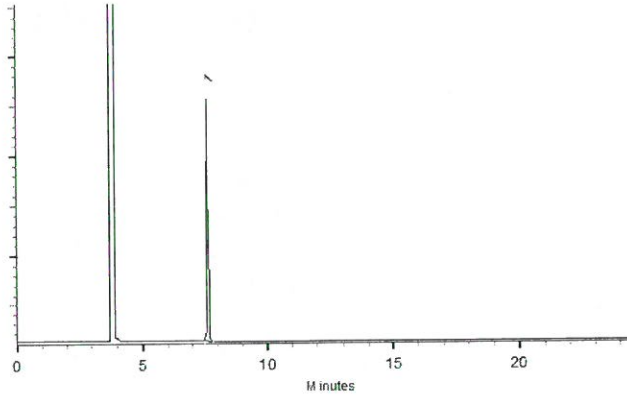
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Tom Suckar - Mix Technician

**Date Mixed:** 10-Jan-2020

**Balance:** B442140311

  
Justine Albertson - Operations Tech-ARM QC

**Date Passed:** 13-Jan-2020

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOASGAS2\_\_00024**





110 Benner Circle  
 Bellefonte, PA 16823-8812  
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 Fax: (814)353-1309

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# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 569722.SEC Lot No.: A0147004  
 Description : 8260 List 1 / Std #3 Gases (2015)  
8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul  
 Container Size : 2 mL Pkg Amt: > 1 mL  
 Expiration Date : March 31, 2022 Storage: 0°C or colder



2445105  
 ID: VOASGAS2\_00024  
 Exp 03/31/22 Prod JSM Opn 08/06/19  
 8260 List 1/Std #3 Gases

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dichlorodifluoromethane (CFC-12)	2,502.6 µg/mL	+/-	18.1926	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 25587)		+/-	140.7448	µg/mL	Unstressed
	Purity 99%		+/-	144.0185	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,501.0 µg/mL	+/-	19.9774	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/-	140.8939	µg/mL	Unstressed
	Purity 99%		+/-	144.1598	µg/mL	Stressed
3	Vinyl chloride	2,504.4 µg/mL	+/-	18.8833	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/-	140.9336	µg/mL	Unstressed
	Purity 99%		+/-	144.2075	µg/mL	Stressed
4	1,3-Butadiene	2,510.8 µg/mL	+/-	17.6771	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 24033)		+/-	141.1317	µg/mL	Unstressed
	Purity 99%		+/-	144.4177	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,504.5 µg/mL	+/-	24.1672	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/-	141.7438	µg/mL	Unstressed
	Purity 99%		+/-	144.9997	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,502.0 µg/mL	+/-	17.7700	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/-	140.6543	µg/mL	Unstressed
	Purity 99%		+/-	143.9283	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 7978700)		+/-	140.1725	µg/mL	Unstressed
	Purity 99%		+/-	143.4524	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)	2,501.8 µg/mL	+/- 18.3807	µg/mL	Gravimetric
	CAS # 75-69-4.SEC (Lot 253600)		+/- 140.7217	µg/mL	Unstressed
	Purity 99%		+/- 143.9937	µg/mL	Stressed

**Solvent:** P&T Methanol  
CAS # 67-56-1  
Purity 99%

\* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

**Tech Tips:**

Raw material may contain trace amounts of tert-Butanol.

**Column:**  
60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

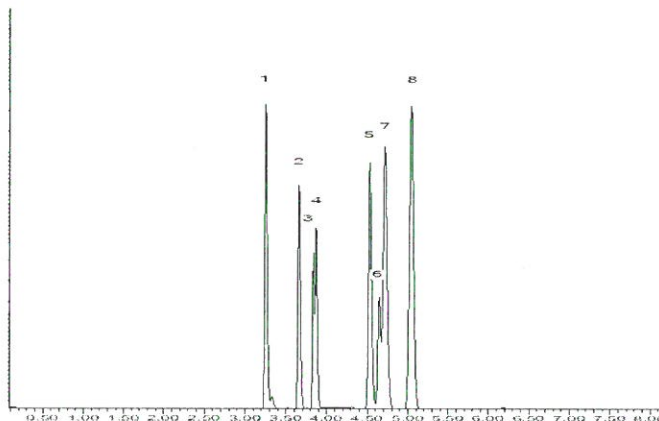
**Carrier Gas:**  
helium-constant pressure 30 psi

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Brandon Reish*  
**Brandon Reish - Mix Technician**

Date Mixed: 13-Mar-2019 Balance: 1127510105

*Justine Albertson*  
**Justine Albertson - Operations Tech-ARM GC**

Date Passed: 18-Mar-2019

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOASMegMix2\_\_00023**



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
 Bellefonte, PA 16823-8812  
 Tel: (800)356-1688  
 Fax: (814)353-1309

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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 571992.SEC **Lot No.:** A0144202  
**Description :** 8260 List 1 / Std #1 MegaMix (2017)  
8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** June 30, 2021 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Diethyl ether (ethyl ether)	2,517.0 µg/mL	+/-	14.6339	µg/mL	Gravimetric
	CAS # 60-29-7.SEC (Lot F23X068)		+/-	151.8598	µg/mL	Unstressed
	Purity 98%		+/-	152.2203	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,506.7 µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/-	151.2383	µg/mL	Unstressed
	Purity 99%		+/-	151.5974	µg/mL	Stressed
3	1,1-Dichloroethene	2,503.3 µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 7692300)		+/-	151.0372	µg/mL	Unstressed
	Purity 99%		+/-	151.3958	µg/mL	Stressed
4	tert-Butanol (TBA)	25,000.8 µg/mL	+/-	145.3491	µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot XYXDO)		+/-	1,508.4071	µg/mL	Unstressed
	Purity 98%		+/-	1,511.9883	µg/mL	Stressed
5	Methyl acetate	5,002.3 µg/mL	+/-	29.0840	µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot UCNEL)		+/-	301.8129	µg/mL	Unstressed
	Purity 99%		+/-	302.5295	µg/mL	Stressed
6	Iodomethane (methyl iodide)	2,503.5 µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/-	151.0472	µg/mL	Unstressed
	Purity 99%		+/-	151.4059	µg/mL	Stressed
7	Allyl chloride ( 3-chloropropene )	2,511.7 µg/mL	+/-	14.6030	µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot H3HGC)		+/-	151.5400	µg/mL	Unstressed
	Purity 99%		+/-	151.8998	µg/mL	Stressed

8	Methylene chloride (dichloromethane)		2,506.7	µg/mL	+/-	14.5740	µg/mL	Gravimetric
	<b>CAS #</b> 75-09-2.SEC	(Lot FGM02)			+/-	151.2383	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.5974	µg/mL	Stressed
9	Carbon disulfide		2,500.7	µg/mL	+/-	14.5391	µg/mL	Gravimetric
	<b>CAS #</b> 75-15-0.SEC	(Lot MKBL1376V)			+/-	150.8763	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2345	µg/mL	Stressed
10	Acrylonitrile		25,001.2	µg/mL	+/-	145.3513	µg/mL	Gravimetric
	<b>CAS #</b> 107-13-1.SEC	(Lot UERIL)			+/-	1,508.4304	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	1,512.0117	µg/mL	Stressed
11	Methyl-tert-butyl ether ( MTBE )		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	<b>CAS #</b> 1634-04-4.SEC	(Lot ZHKYA)			+/-	150.9266	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2849	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,501.3	µg/mL	+/-	14.5427	µg/mL	Gravimetric
	<b>CAS #</b> 156-59-2.SEC	(Lot HGC01-BLKT)			+/-	150.9137	µg/mL	Unstressed
	<b>Purity</b> 98%				+/-	151.2720	µg/mL	Stressed
13	n-Hexane (C6)		2,503.2	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	<b>CAS #</b> 110-54-3.SEC	(Lot K24W001)			+/-	151.0320	µg/mL	Unstressed
	<b>Purity</b> 97%				+/-	151.3905	µg/mL	Stressed
14	1,1-Dichloroethane		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	<b>CAS #</b> 75-34-3.SEC	(Lot 5379000)			+/-	150.9567	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.3151	µg/mL	Stressed
15	2,2-Dichloropropane		2,503.2	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	<b>CAS #</b> 594-20-7.SEC	(Lot I7E8E)			+/-	151.0320	µg/mL	Unstressed
	<b>Purity</b> 98%				+/-	151.3905	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,501.0	µg/mL	+/-	14.5409	µg/mL	Gravimetric
	<b>CAS #</b> 156-60-5.SEC	(Lot TSSUB)			+/-	150.8954	µg/mL	Unstressed
	<b>Purity</b> 97%				+/-	151.2537	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,508.3	µg/mL	+/-	363.4098	µg/mL	Gravimetric
	<b>CAS #</b> 78-83-1.SEC	(Lot PH2XK)			+/-	3,771.4029	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	3,780.3569	µg/mL	Stressed
18	Chloroform		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	<b>CAS #</b> 67-66-3.SEC	(Lot 1297547)			+/-	150.8662	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2244	µg/mL	Stressed
19	Bromochloromethane		2,507.0	µg/mL	+/-	14.5759	µg/mL	Gravimetric
	<b>CAS #</b> 74-97-5.SEC	(Lot 5670200)			+/-	151.2584	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.6175	µg/mL	Stressed
20	Tetrahydrofuran		5,006.7	µg/mL	+/-	29.1092	µg/mL	Gravimetric
	<b>CAS #</b> 109-99-9.SEC	(Lot 8DAOJ)			+/-	302.0744	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	302.7916	µg/mL	Stressed
21	1,1,1-Trichloroethane		2,507.7	µg/mL	+/-	14.5798	µg/mL	Gravimetric
	<b>CAS #</b> 71-55-6.SEC	(Lot 7998000)			+/-	151.2986	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.6579	µg/mL	Stressed
22	Cyclohexane		2,508.0	µg/mL	+/-	14.5817	µg/mL	Gravimetric
	<b>CAS #</b> 110-82-7.SEC	(Lot YADRA)			+/-	151.3188	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.6780	µg/mL	Stressed
23	1,1-Dichloropropene		2,502.4	µg/mL	+/-	14.5492	µg/mL	Gravimetric
	<b>CAS #</b> 563-58-6.SEC	(Lot 5221100)			+/-	150.9809	µg/mL	Unstressed
	<b>Purity</b> 96%				+/-	151.3393	µg/mL	Stressed



24	Carbon tetrachloride <b>CAS #</b> 56-23-5.SEC <b>Purity</b> 99%	(Lot 11466)	2,510.3	µg/mL	+/-	14.5953	µg/mL	Gravimetric
					+/-	151.4595	µg/mL	Unstressed
					+/-	151.8191	µg/mL	Stressed
25	n-Heptane (C7) <b>CAS #</b> 142-82-5.SEC <b>Purity</b> 99%	(Lot TFHUC)	2,511.8	µg/mL	+/-	14.6040	µg/mL	Gravimetric
					+/-	151.5500	µg/mL	Unstressed
					+/-	151.9098	µg/mL	Stressed
26	1,2-Dichloroethane <b>CAS #</b> 107-06-2.SEC <b>Purity</b> 99%	(Lot FO6PK)	2,501.3	µg/mL	+/-	14.5430	µg/mL	Gravimetric
					+/-	150.9165	µg/mL	Unstressed
					+/-	151.2748	µg/mL	Stressed
27	Benzene <b>CAS #</b> 71-43-2.SEC <b>Purity</b> 99%	(Lot B28Y008)	2,504.8	µg/mL	+/-	14.5633	µg/mL	Gravimetric
					+/-	151.1277	µg/mL	Unstressed
					+/-	151.4865	µg/mL	Stressed
28	Trichloroethene <b>CAS #</b> 79-01-6.SEC <b>Purity</b> 99%	(Lot H04X050)	2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
					+/-	151.3590	µg/mL	Unstressed
					+/-	151.7183	µg/mL	Stressed
29	Methylcyclohexane <b>CAS #</b> 108-87-2.SEC <b>Purity</b> 99%	(Lot Q02QG)	2,504.5	µg/mL	+/-	14.5614	µg/mL	Gravimetric
					+/-	151.1076	µg/mL	Unstressed
					+/-	151.4663	µg/mL	Stressed
30	1,2-Dichloropropane <b>CAS #</b> 78-87-5.SEC <b>Purity</b> 99%	(Lot ERRBI-RH)	2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
					+/-	151.0774	µg/mL	Unstressed
					+/-	151.4361	µg/mL	Stressed
31	1,4-Dioxane <b>CAS #</b> 123-91-1.SEC <b>Purity</b> 99%	(Lot YVP2C)	50,008.0	µg/mL	+/-	290.7356	µg/mL	Gravimetric
					+/-	3,017.2028	µg/mL	Unstressed
					+/-	3,024.3661	µg/mL	Stressed
32	Dibromomethane <b>CAS #</b> 74-95-3.SEC <b>Purity</b> 99%	(Lot FGI01-OICH)	2,509.5	µg/mL	+/-	14.5904	µg/mL	Gravimetric
					+/-	151.4093	µg/mL	Unstressed
					+/-	151.7687	µg/mL	Stressed
33	cis-1,3-Dichloropropene <b>CAS #</b> 10061-01-5.SEC <b>Purity</b> 99%	(Lot 487OA)	2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
					+/-	150.9567	µg/mL	Unstressed
					+/-	151.3151	µg/mL	Stressed
34	Toluene <b>CAS #</b> 108-88-3.SEC <b>Purity</b> 99%	(Lot YND2B-BD)	2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
					+/-	150.9266	µg/mL	Unstressed
					+/-	151.2849	µg/mL	Stressed
35	Ethyl methacrylate <b>CAS #</b> 97-63-2.SEC <b>Purity</b> 99%	(Lot MLWYK-LS)	2,508.8	µg/mL	+/-	14.5866	µg/mL	Gravimetric
					+/-	151.3690	µg/mL	Unstressed
					+/-	151.7284	µg/mL	Stressed
36	trans-1,3-Dichloropropene <b>CAS #</b> 10061-02-6.SEC <b>Purity</b> 96%	(Lot ZDMSL)	2,502.9	µg/mL	+/-	14.5520	µg/mL	Gravimetric
					+/-	151.0098	µg/mL	Unstressed
					+/-	151.3684	µg/mL	Stressed
37	1,1,2-Trichloroethane <b>CAS #</b> 79-00-5.SEC <b>Purity</b> 99%	(Lot 7871500)	2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
					+/-	150.9869	µg/mL	Unstressed
					+/-	151.3454	µg/mL	Stressed
38	1,3-Dichloropropane <b>CAS #</b> 142-28-9.SEC <b>Purity</b> 99%	(Lot AGN01-EFPC)	2,502.7	µg/mL	+/-	14.5507	µg/mL	Gravimetric
					+/-	150.9970	µg/mL	Unstressed
					+/-	151.3555	µg/mL	Stressed
39	Tetrachloroethene <b>CAS #</b> 127-18-4.SEC <b>Purity</b> 99%	(Lot F09W014)	2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
					+/-	151.1378	µg/mL	Unstressed
					+/-	151.4966	µg/mL	Stressed

40	Dibromochloromethane CAS # 124-48-1.SEC Purity 97%	(Lot 10206360)	2,502.4	µg/mL	+/-	14.5494 150.9832 151.3417	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4.SEC Purity 99%	(Lot 3505900)	2,503.3	µg/mL	+/-	14.5546 151.0372 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7.SEC Purity 99%	(Lot 1161936)	2,504.8	µg/mL	+/-	14.5633 151.1277 151.4865	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene CAS # 108-38-3.SEC Purity 99%	(Lot OUKMG-GB)	1,251.7	µg/mL	+/-	7.2941 75.5202 75.6995	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene CAS # 106-42-3.SEC Purity 99%	(Lot GM01)	1,253.7	µg/mL	+/-	7.3058 75.6409 75.8205	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene CAS # 100-41-4.SEC Purity 99%	(Lot PI4SE)	2,503.5	µg/mL	+/-	14.5556 151.0472 151.4059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane CAS # 630-20-6.SEC Purity 99%	(Lot GC01)	2,506.7	µg/mL	+/-	14.5740 151.2383 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene CAS # 95-47-6.SEC Purity 99%	(Lot FGL01)	2,504.2	µg/mL	+/-	14.5594 151.0875 151.4462	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5.SEC Purity 99%	(Lot OFIOL-IA)	2,507.2	µg/mL	+/-	14.5769 151.2685 151.6276	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8.SEC Purity 99%	(Lot 2PHXG-IH)	2,505.2	µg/mL	+/-	14.5653 151.1478 151.5067	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	Bromoform CAS # 75-25-2.SEC Purity 97%	(Lot 5461400)	2,500.5	µg/mL	+/-	14.5381 150.8661 151.2243	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Bromodichloromethane CAS # 75-27-4.SEC Purity 98%	(Lot 13780)	2,501.3	µg/mL	+/-	14.5427 150.9137 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane CAS # 79-34-5.SEC Purity 99%	(Lot CFA4D-AQ)	2,502.0	µg/mL	+/-	14.5468 150.9567 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4.SEC Purity 99%	(Lot GUHZN)	2,505.7	µg/mL	+/-	14.5682 151.1780 151.5369	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-Dichloro-2-butene CAS # 110-57-6.SEC Purity 98%	(Lot 100700-3)	2,514.2	µg/mL	+/-	14.6177 151.6922 152.0524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1.SEC Purity 99%	(Lot T2HFC)	2,503.7	µg/mL	+/-	14.5565 151.0573 151.4159	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene			2,506.2	µg/mL	+/-	14.5711	µg/mL	Gravimetric
	<b>CAS #</b>	108-86-1.SEC	(Lot 2FUHG-EM)			+/-	151.2081	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.5671	µg/mL	Stressed
57	1,3,5-Trimethylbenzene			2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	<b>CAS #</b>	108-67-8.SEC	(Lot FGH02-CMLN)			+/-	151.4394	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.7990	µg/mL	Stressed
58	2-Chlorotoluene			2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	<b>CAS #</b>	95-49-8.SEC	(Lot SW8QG-AO)			+/-	151.1176	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.4764	µg/mL	Stressed
59	4-Chlorotoluene			2,509.2	µg/mL	+/-	14.5885	µg/mL	Gravimetric
	<b>CAS #</b>	106-43-4.SEC	(Lot P4XHJ-AO)			+/-	151.3891	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.7486	µg/mL	Stressed
60	tert-Butylbenzene			2,505.8	µg/mL	+/-	14.5691	µg/mL	Gravimetric
	<b>CAS #</b>	98-06-6.SEC	(Lot D6OHC)			+/-	151.1880	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.5470	µg/mL	Stressed
61	1,2,4-Trimethylbenzene			2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	<b>CAS #</b>	95-63-6.SEC	(Lot JMIYD)			+/-	151.3590	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.7183	µg/mL	Stressed
62	sec-Butylbenzene			2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	<b>CAS #</b>	135-98-8.SEC	(Lot OGN01-IMA)			+/-	151.1176	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.4764	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)			2,500.3	µg/mL	+/-	14.5372	µg/mL	Gravimetric
	<b>CAS #</b>	99-87-6.SEC	(Lot 6628200)			+/-	150.8562	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.2143	µg/mL	Stressed
64	1,3-Dichlorobenzene			2,506.3	µg/mL	+/-	14.5720	µg/mL	Gravimetric
	<b>CAS #</b>	541-73-1.SEC	(Lot FMDFD)			+/-	151.2182	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.5772	µg/mL	Stressed
65	1,4-Dichlorobenzene			2,509.8	µg/mL	+/-	14.5924	µg/mL	Gravimetric
	<b>CAS #</b>	106-46-7.SEC	(Lot 4Y5DC)			+/-	151.4294	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.7889	µg/mL	Stressed
66	n-Butylbenzene			2,513.7	µg/mL	+/-	14.6147	µg/mL	Gravimetric
	<b>CAS #</b>	104-51-8.SEC	(Lot MMPGA)			+/-	151.6607	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	152.0207	µg/mL	Stressed
67	1,2-Dichlorobenzene			2,501.8	µg/mL	+/-	14.5459	µg/mL	Gravimetric
	<b>CAS #</b>	95-50-1.SEC	(Lot R6QDM)			+/-	150.9467	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.3051	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane			2,508.5	µg/mL	+/-	14.5845	µg/mL	Gravimetric
	<b>CAS #</b>	96-12-8.SEC	(Lot LC00408V)			+/-	151.3473	µg/mL	Unstressed
	<b>Purity</b>	98%				+/-	151.7066	µg/mL	Stressed
69	1,2,4-Trichlorobenzene			2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	<b>CAS #</b>	120-82-1.SEC	(Lot 3LYYC)			+/-	151.0372	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.3958	µg/mL	Stressed
70	Hexachlorobutadiene			2,504.4	µg/mL	+/-	14.5607	µg/mL	Gravimetric
	<b>CAS #</b>	87-68-3.SEC	(Lot 5526800)			+/-	151.1002	µg/mL	Unstressed
	<b>Purity</b>	97%				+/-	151.4590	µg/mL	Stressed
71	Naphthalene			2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	<b>CAS #</b>	91-20-3.SEC	(Lot 4KW3H-OO)			+/-	151.0372	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.3958	µg/mL	Stressed



72	1,2,3-Trichlorobenzene		2,512.2 µg/mL	+/- 14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/- 151.5740	µg/mL	Unstressed
	Purity 98%			+/- 151.9338	µg/mL	Stressed

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

**Column:**  
60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

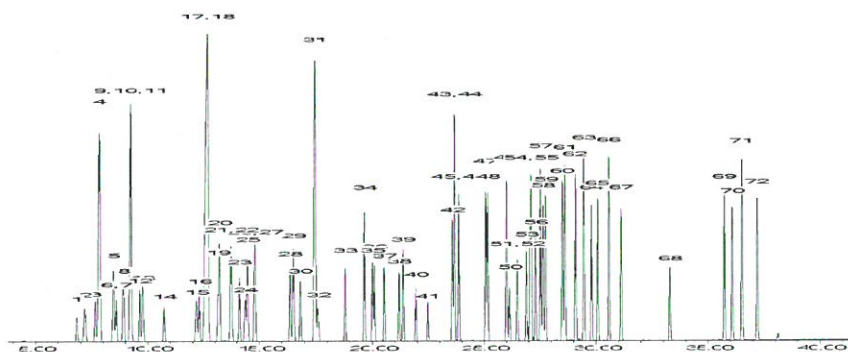
**Carrier Gas:**  
helium-constant pressure 30 psi

**Temp. Program:**  
40°C (hold 6 min.) to 240°C  
@ 6°C/min. (hold 10 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Brandon Reish*  
**Brandon Reish - Mix Technician**

**Date Mixed:** 17-Dec-2018      **Balance:** 1127510105

*Diane Shaffer*  
**Diane Shaffer - Operations Tech-ARM QC**

**Date Passed:** 21-Dec-2018

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

# 8260D

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Volatile Organic Compounds by GC/MS

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low

GC Column (1): 624SIL-MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
AB-01A-9.0	580-96357-1	104	104	96	105
AB-02A-16.0	580-96357-2	103	109	95	105
AB-03A-15.0	580-96357-3	104	111	95	103
AB-04A-14.0	580-96357-4	106	107	94	101
Trip-Blank-01	580-96357-5	105	106	95	104
	MB 580-335059/1-A	102	100	96	103
	LCS 580-335059/2-A	103	102	94	104
	LCSD 580-335059/3-A	103	104	97	104

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

QC LIMITS  
80-120  
80-121  
80-120  
80-120

# Column to be used to flag recovery values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low Lab File ID: 08072020\_004.D

Lab ID: LCS 580-335059/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20.0	22.9	115	24-150	
Chloromethane	20.0	18.1	91	52-150	
Vinyl chloride	20.0	17.7	89	54-150	
Bromomethane	20.0	17.6	88	42-150	
Chloroethane	20.0	13.7	69	50-150	
Trichlorofluoromethane	20.0	18.9	95	71-150	
1,1-Dichloroethene	20.0	18.8	94	73-143	
Methylene Chloride	20.0	20.9 J	104	66-140	
Methyl tert-butyl ether	20.0	22.6	113	77-132	
trans-1,2-Dichloroethene	20.0	19.9	99	77-134	
1,1-Dichloroethane	20.0	20.5	103	78-135	
2,2-Dichloropropane	20.0	20.0	100	62-150	
cis-1,2-Dichloroethene	20.0	20.3	102	68-132	
Chlorobromomethane	20.0	21.1	105	76-131	
Chloroform	20.0	21.0	105	74-133	
1,1,1-Trichloroethane	20.0	20.6	103	78-144	
Carbon tetrachloride	20.0	20.5	103	66-150	
1,1-Dichloropropene	20.0	20.4	102	76-140	
Benzene	20.0	20.3	101	79-135	
1,2-Dichloroethane	20.0	21.6	108	76-132	
Trichloroethene	20.0	19.9	100	80-134	
1,2-Dichloropropane	20.0	21.7	108	65-136	
Dibromomethane	20.0	22.1	110	72-130	
Dichlorobromomethane	20.0	23.2	116	73-125	
cis-1,3-Dichloropropene	20.0	22.6	113	80-122	
Toluene	20.0	19.4	97	75-137	
trans-1,3-Dichloropropene	20.0	23.5	118	80-121	
1,1,2-Trichloroethane	20.0	22.4	112	80-123	
Tetrachloroethene	20.0	18.4	92	58-150	
1,3-Dichloropropane	20.0	23.0	115	75-120	
Chlorodibromomethane	20.0	24.2	121	75-132	
Ethylene Dibromide	20.0	22.7	113	77-123	
Chlorobenzene	20.0	22.0	110	80-131	
1,1,1,2-Tetrachloroethane	20.0	23.6	118	79-128	
Ethylbenzene	20.0	21.6	108	80-135	
m-Xylene & p-Xylene	20.0	22.3	112	80-132	
o-Xylene	20.0	23.6	118	80-132	
Styrene	20.0	24.4	122	79-129	
Bromoform	20.0	26.1	131	71-146	
Isopropylbenzene	20.0	23.8	119	81-140	
Bromobenzene	20.0	23.0	115	78-126	
1,1,2,2-Tetrachloroethane	20.0	25.2	126	77-127	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low Lab File ID: 08072020\_004.D

Lab ID: LCS 580-335059/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,2,3-Trichloropropane	20.0	23.4	117	77-127	
N-Propylbenzene	20.0	23.2	116	68-149	
2-Chlorotoluene	20.0	22.7	114	77-134	
4-Chlorotoluene	20.0	23.4	117	71-137	
tert-Butylbenzene	20.0	24.3	122	72-144	
1,2,4-Trimethylbenzene	20.0	20.9	104	73-138	
sec-Butylbenzene	20.0	24.3	121	71-143	
4-Isopropyltoluene	20.0	24.5	122	71-142	
1,3-Dichlorobenzene	20.0	23.8	119	78-132	
1,4-Dichlorobenzene	20.0	23.6	118	77-123	
n-Butylbenzene	20.0	24.5	123	69-143	
1,2-Dichlorobenzene	20.0	24.5	123	78-126	
1,2-Dibromo-3-Chloropropane	20.0	26.8	134	75-129	*
1,2,4-Trichlorobenzene	20.0	25.5	127	74-131	
Hexachlorobutadiene	20.0	24.7	124	65-150	
Naphthalene	20.0	28.5	143	64-136	*
1,2,3-Trichlorobenzene	20.0	26.6	133	68-136	
1,3,5-Trimethylbenzene	20.0	24.1	121	72-142	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low

Lab File ID: 08072020\_005.D

Lab ID: LCSD 580-335059/3-A

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Dichlorodifluoromethane	20.0	18.7	94	20	40	24-150	
Chloromethane	20.0	17.1	86	6	26	52-150	
Vinyl chloride	20.0	17.6	88	1	40	54-150	
Bromomethane	20.0	17.2	86	2	40	42-150	
Chloroethane	20.0	13.3	66	3	31	50-150	
Trichlorofluoromethane	20.0	16.4	82	14	36	71-150	
1,1-Dichloroethene	20.0	15.4	77	20	34	73-143	
Methylene Chloride	20.0	19.9 J	100	5	30	66-140	
Methyl tert-butyl ether	20.0	21.6	108	4	25	77-132	
trans-1,2-Dichloroethene	20.0	18.5	93	7	33	77-134	
1,1-Dichloroethane	20.0	19.2	96	6	31	78-135	
2,2-Dichloropropane	20.0	18.2	91	9	40	62-150	
cis-1,2-Dichloroethene	20.0	19.9	99	2	32	68-132	
Chlorobromomethane	20.0	20.0	100	5	28	76-131	
Chloroform	20.0	20.6	103	2	36	74-133	
1,1,1-Trichloroethane	20.0	19.8	99	4	38	78-144	
Carbon tetrachloride	20.0	19.3	97	6	39	66-150	
1,1-Dichloropropene	20.0	19.3	97	5	38	76-140	
Benzene	20.0	19.5	98	4	31	79-135	
1,2-Dichloroethane	20.0	20.9	105	3	29	76-132	
Trichloroethene	20.0	20.0	100	0	40	80-134	
1,2-Dichloropropane	20.0	21.0	105	3	37	65-136	
Dibromomethane	20.0	21.7	108	2	34	72-130	
Dichlorobromomethane	20.0	22.7	113	2	40	73-125	
cis-1,3-Dichloropropene	20.0	22.8	114	1	40	80-122	
Toluene	20.0	19.6	98	1	34	75-137	
trans-1,3-Dichloropropene	20.0	23.7	118	1	40	80-121	
1,1,2-Trichloroethane	20.0	22.4	112	0	39	80-123	
Tetrachloroethene	20.0	19.0	95	3	40	58-150	
1,3-Dichloropropane	20.0	23.0	115	0	37	75-120	
Chlorodibromomethane	20.0	24.0	120	1	40	75-132	
Ethylene Dibromide	20.0	23.1	116	2	37	77-123	
Chlorobenzene	20.0	22.2	111	1	40	80-131	
1,1,1,2-Tetrachloroethane	20.0	23.5	118	0	40	79-128	
Ethylbenzene	20.0	22.0	110	2	37	80-135	
m-Xylene & p-Xylene	20.0	22.7	114	2	38	80-132	
o-Xylene	20.0	23.4	117	1	39	80-132	
Styrene	20.0	24.0	120	1	40	79-129	
Bromoform	20.0	24.4	122	7	40	71-146	
Isopropylbenzene	20.0	23.7	118	1	40	81-140	
Bromobenzene	20.0	21.9	110	5	40	78-126	
1,1,2,2-Tetrachloroethane	20.0	22.7	114	10	40	77-127	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Solid Level: Low Lab File ID: 08072020\_005.D  
 Lab ID: LCSD 580-335059/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,2,3-Trichloropropane	20.0	22.2	111	6	40	77-127	
N-Propylbenzene	20.0	22.9	114	1	40	68-149	
2-Chlorotoluene	20.0	21.9	110	4	40	77-134	
4-Chlorotoluene	20.0	22.4	112	5	40	71-137	
tert-Butylbenzene	20.0	23.8	119	2	40	72-144	
1,2,4-Trimethylbenzene	20.0	20.1	101	4	40	73-138	
sec-Butylbenzene	20.0	23.5	118	3	40	71-143	
4-Isopropyltoluene	20.0	23.7	118	3	40	71-142	
1,3-Dichlorobenzene	20.0	22.0	110	8	40	78-132	
1,4-Dichlorobenzene	20.0	21.7	109	8	40	77-123	
n-Butylbenzene	20.0	23.3	117	5	40	69-143	
1,2-Dichlorobenzene	20.0	22.5	112	9	40	78-126	
1,2-Dibromo-3-Chloropropane	20.0	24.7	124	8	40	75-129	
1,2,4-Trichlorobenzene	20.0	22.6	113	12	40	74-131	
Hexachlorobutadiene	20.0	22.2	111	11	36	65-150	
Naphthalene	20.0	26.6	133	7	40	64-136	
1,2,3-Trichlorobenzene	20.0	24.1	120	10	40	68-136	
1,3,5-Trimethylbenzene	20.0	23.4	117	3	40	72-142	

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 08072020\_007.D Lab Sample ID: MB 580-335059/1-A  
 Matrix: Solid Heated Purge: (Y/N) N  
 Instrument ID: TAC119 Date Analyzed: 08/07/2020 14:46  
 GC Column: 624SIL-MS ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-335059/2-A	08072020_00 4.D	08/07/2020 13:26
	LCSD 580-335059/3-A	08072020_00 5.D	08/07/2020 13:53
Trip-Blank-01	580-96357-5	08072020_01 1.D	08/07/2020 16:40
AB-01A-9.0	580-96357-1	08072020_01 9.D	08/07/2020 20:12
AB-02A-16.0	580-96357-2	08072020_02 0.D	08/07/2020 20:39
AB-03A-15.0	580-96357-3	08072020_02 1.D	08/07/2020 21:06
AB-04A-14.0	580-96357-4	08072020_02 2.D	08/07/2020 21:32



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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 07142020\_004.D BFB Injection Date: 07/14/2020  
 Instrument ID: TAC119 BFB Injection Time: 13:24  
 Analysis Batch No.: 332974

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.7
75	30.0 - 60.0 % of mass 95	44.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	1.0 (0.8) 1
174	50.0 - 120.00 % of mass 95	119.7
175	5.0 - 9.0 % of mass 174	8.1 (6.8) 1
176	95.0 - 101.0 % of mass 174	117.1 (97.8) 1
177	5.0 - 9.0 % of mass 176	8.0 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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
	IC 580-332974/3	07142020b_003	07/14/2020	15:42
	IC 580-332974/4	07142020b_004	07/14/2020	16:08
	IC 580-332974/5	07142020b_005	07/14/2020	16:35
	IC 580-332974/6	07142020b_006	07/14/2020	17:01
	IC 580-332974/7	07142020b_007	07/14/2020	17:27
	ICIS 580-332974/8	07142020b_008	07/14/2020	17:54
	IC 580-332974/9	07142020b_009	07/14/2020	18:21
	IC 580-332974/10	07142020b_010	07/14/2020	18:47
	ICV 580-332974/13	07142020b_013	07/14/2020	20:07

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 08072020\_002.D BFB Injection Date: 08/07/2020  
 Instrument ID: TAC119 BFB Injection Time: 12:34  
 Analysis Batch No.: 335064

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.8
75	30.0 - 60.0 % of mass 95	44.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.8 (0.7) 1
174	50.0 - 120.00 % of mass 95	110.6
175	5.0 - 9.0 % of mass 174	8.0 (7.2) 1
176	95.0 - 101.0 % of mass 174	109.4 (98.9) 1
177	5.0 - 9.0 % of mass 176	7.2 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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 580-335064/3	08072020_003.	08/07/2020	13:00
	LCS 580-335059/2-A	08072020_004.	08/07/2020	13:26
	LCSD 580-335059/3-A	08072020_005.	08/07/2020	13:53
	CCVL 580-335064/6	08072020_006.	08/07/2020	14:19
	MB 580-335059/1-A	08072020_007.	08/07/2020	14:46
Trip-Blank-01	580-96357-5	08072020_011.	08/07/2020	16:40
AB-01A-9.0	580-96357-1	08072020_019.	08/07/2020	20:12
AB-02A-16.0	580-96357-2	08072020_020.	08/07/2020	20:39
AB-03A-15.0	580-96357-3	08072020_021.	08/07/2020	21:06
AB-04A-14.0	580-96357-4	08072020_022.	08/07/2020	21:32

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 580-332974/8 Date Analyzed: 07/14/2020 17:54  
 Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm)  
 Lab File ID (Standard): 07142020b\_008.D Heated Purge: (Y/N) N  
 Calibration ID: 29429

	TBA <sub>d</sub> 9		FB		CBN <sub>Z</sub> d <sub>5</sub>	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	75876	4.67	176323	8.59	147482	11.58
UPPER LIMIT		4.83		8.76		11.75
LOWER LIMIT		4.50		8.43		11.41
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-332974/13	102487	4.65	222190	8.59	187199	11.58

TBA<sub>d</sub>9 = TBA-d<sub>9</sub> (IS)

FB = Fluorobenzene (IS)

CBN<sub>Z</sub>d<sub>5</sub> = Chlorobenzene-d<sub>5</sub>

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.1666 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 580-332974/8 Date Analyzed: 07/14/2020 17:54  
 Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm)  
 Lab File ID (Standard): 07142020b\_008.D Heated Purge: (Y/N) N  
 Calibration ID: 29429

	DCBd4					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	81340	13.49				
UPPER LIMIT		13.66				
LOWER LIMIT		13.33				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-332974/13		107715	13.49			

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.1666 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 580-335064/3 Date Analyzed: 08/07/2020 13:00  
 Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm)  
 Lab File ID (Standard): 08072020\_003.D Heated Purge: (Y/N) N  
 Calibration ID: 29429

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	148635	8.59	130866	11.58	78346	13.49	
UPPER LIMIT		8.76		11.75		13.65	
LOWER LIMIT		8.43		11.41		13.32	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 580-335059/2-A		138619	8.60	127805	11.58	75603	13.49
LCSD 580-335059/3-A		148451	8.60	131577	11.58	77769	13.49
CCVL 580-335064/6		151844	8.60	134995	11.58	78381	13.49
MB 580-335059/1-A		134728	8.60	120305	11.58	70472	13.49
580-96357-5	Trip-Blank-01	147549	8.60	132866	11.58	77696	13.49
580-96357-1	AB-01A-9.0	134567	8.60	121012	11.58	73481	13.49
580-96357-2	AB-02A-16.0	133550	8.60	126043	11.58	80264	13.49
580-96357-3	AB-03A-15.0	143010	8.60	133316	11.58	77343	13.49
580-96357-4	AB-04A-14.0	116627	8.60	105404	11.58	60482	13.49

FB = Fluorobenzene (IS)  
 CBNZd5 = Chlorobenzene-d5  
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.1666 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-01A-9.0 Lab Sample ID: 580-96357-1  
 Matrix: Solid Lab File ID: 08072020\_019.D  
 Analysis Method: 8260D Date Collected: 07/28/2020 11:20  
 Sample wt/vol: 6.536(g) Date Analyzed: 08/07/2020 20:12  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 21.2 Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	ND		1.9	
74-87-3	Chloromethane	ND		4.9	
75-01-4	Vinyl chloride	ND		1.9	
74-83-9	Bromomethane	ND		0.97	
75-00-3	Chloroethane	ND		9.7	
75-69-4	Trichlorofluoromethane	ND		1.9	
75-35-4	1,1-Dichloroethene	ND		4.9	
75-09-2	Methylene Chloride	ND		39	
1634-04-4	Methyl tert-butyl ether	ND		1.9	
156-60-5	trans-1,2-Dichloroethene	ND		1.9	
75-34-3	1,1-Dichloroethane	ND		0.97	
594-20-7	2,2-Dichloropropane	ND		4.9	
156-59-2	cis-1,2-Dichloroethene	ND		2.9	
74-97-5	Chlorobromomethane	ND		1.9	
67-66-3	Chloroform	ND		1.9	
71-55-6	1,1,1-Trichloroethane	ND		1.9	
56-23-5	Carbon tetrachloride	ND		1.9	
563-58-6	1,1-Dichloropropene	ND		1.9	
71-43-2	Benzene	ND		1.9	
107-06-2	1,2-Dichloroethane	ND		0.97	
79-01-6	Trichloroethene	ND		1.9	
78-87-5	1,2-Dichloropropane	ND		1.9	
74-95-3	Dibromomethane	ND		0.97	
75-27-4	Dichlorobromomethane	ND		0.97	
10061-01-5	cis-1,3-Dichloropropene	ND		0.97	
108-88-3	Toluene	ND		9.7	
10061-02-6	trans-1,3-Dichloropropene	ND		9.7	
79-00-5	1,1,2-Trichloroethane	ND		1.9	
127-18-4	Tetrachloroethene	ND		1.9	
142-28-9	1,3-Dichloropropane	ND		1.9	
124-48-1	Chlorodibromomethane	ND		1.5	
106-93-4	Ethylene Dibromide	ND		0.97	
108-90-7	Chlorobenzene	ND		1.9	
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.9	
100-41-4	Ethylbenzene	ND		1.9	
179601-23-1	m-Xylene & p-Xylene	ND		9.7	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-01A-9.0 Lab Sample ID: 580-96357-1  
 Matrix: Solid Lab File ID: 08072020\_019.D  
 Analysis Method: 8260D Date Collected: 07/28/2020 11:20  
 Sample wt/vol: 6.536(g) Date Analyzed: 08/07/2020 20:12  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 21.2 Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	ND		4.9	
100-42-5	Styrene	ND		2.9	
75-25-2	Bromoform	ND		4.9	
98-82-8	Isopropylbenzene	ND		1.9	
108-86-1	Bromobenzene	ND		9.7	
79-34-5	1,1,2,2-Tetrachloroethane	ND		3.9	
96-18-4	1,2,3-Trichloropropane	ND		4.9	
103-65-1	N-Propylbenzene	ND		4.9	
95-49-8	2-Chlorotoluene	ND		4.9	
106-43-4	4-Chlorotoluene	ND		4.9	
98-06-6	tert-Butylbenzene	ND		2.9	
95-63-6	1,2,4-Trimethylbenzene	ND		4.9	
135-98-8	sec-Butylbenzene	ND		2.9	
99-87-6	4-Isopropyltoluene	ND		1.9	
541-73-1	1,3-Dichlorobenzene	ND		4.9	
106-46-7	1,4-Dichlorobenzene	ND		4.9	
104-51-8	n-Butylbenzene	ND		2.9	
95-50-1	1,2-Dichlorobenzene	ND		9.7	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	*	9.7	
120-82-1	1,2,4-Trichlorobenzene	ND		1.9	
87-68-3	Hexachlorobutadiene	ND		2.9	
91-20-3	Naphthalene	ND	*	9.7	
87-61-6	1,2,3-Trichlorobenzene	ND		2.9	
108-67-8	1,3,5-Trimethylbenzene	ND		4.9	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-121
460-00-4	4-Bromofluorobenzene (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_019.D  
 Lims ID: 580-96357-C-1-A  
 Client ID: AB-01A-9.0  
 Sample Type: Client  
 Inject. Date: 07-Aug-2020 20:12:30 ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 96357-1  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 10:24:28 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc Date: 10-Aug-2020 10:24:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
23 Methylene Chloride	84	4.550	4.562	-0.012	57	2159	0.3882	M
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	66590	200.0	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.732	0.006	56	34656	10.4	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	31792	10.4	
53 Benzene	78	8.195	8.195	0.000	7	809	0.0601	M
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	99	134567	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	92	138466	9.60	
79 Tetrachloroethene	164	10.811	10.817	-0.006	25	368	0.0788	M
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	81	121012	10.0	
83 Ethylbenzene	91	11.682	11.683	-0.001	1	497	0.0275	
84 m-Xylene & p-Xylene	91	11.798	11.792	0.006	0	1254	0.0933	
88 o-Xylene	91	12.121	12.115	0.006	1	788	0.0596	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	96	60734	10.5	
97 1,3,5-Trimethylbenzene	105	12.883	12.896	-0.013	1	870	0.0564	M
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	68	3355	0.6799	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	1	684	0.0367	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	89	73481	10.0	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	17	745	0.1029	
112 Naphthalene	128	15.249	15.249	0.000	82	10160	0.8479	
114 1,2,3-Trichlorobenzene	180	15.419	15.420	-0.001	1	600	0.0932	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

5X SUR/IS\_00001 Amount Added: 1.00 Units: uL Run Reagent



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_019.D

Injection Date: 07-Aug-2020 20:12:30

Instrument ID: TAC119

Lims ID: 580-96357-C-1-A

Lab Sample ID: 580-96357-1

Client ID: AB-01A-9.0

Operator ID: cjb

ALS Bottle#: 19

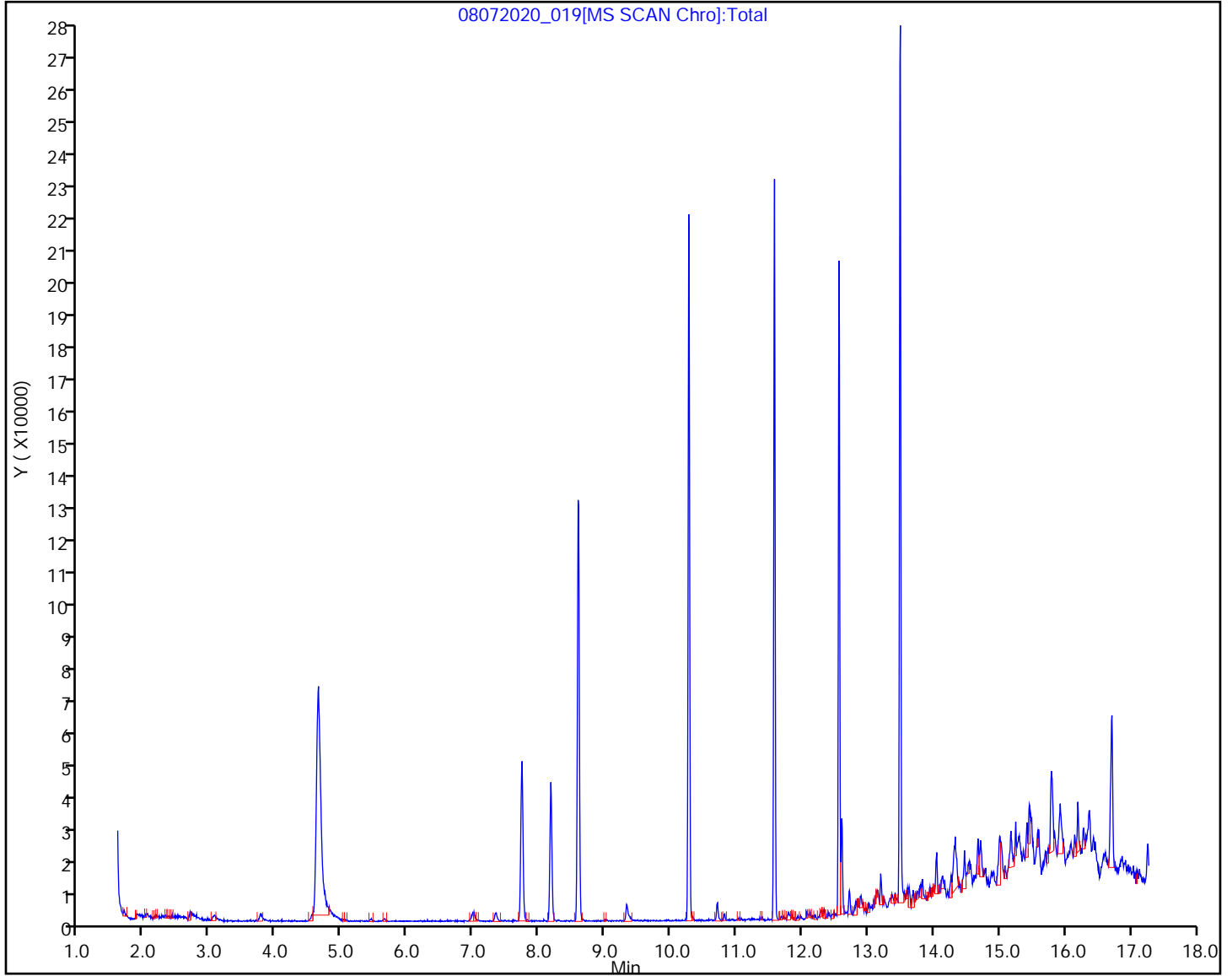
Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_019.D  
 Lims ID: 580-96357-C-1-A  
 Client ID: AB-01A-9.0  
 Sample Type: Client  
 Inject. Date: 07-Aug-2020 20:12:30 ALS Bottle#: 19 Worklist Smp#: 19  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 96357-1  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 10:24:28 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc Date: 10-Aug-2020 10:24:28

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	10.4	104.23
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.82
\$ 72 Toluene-d8 (Surr)	10.0	9.60	95.97
\$ 92 4-Bromofluorobenzene (Surr)	10.0	10.5	104.96
\$ 118 BFB	0.0	0	0.00

Eurofins TestAmerica, Seattle

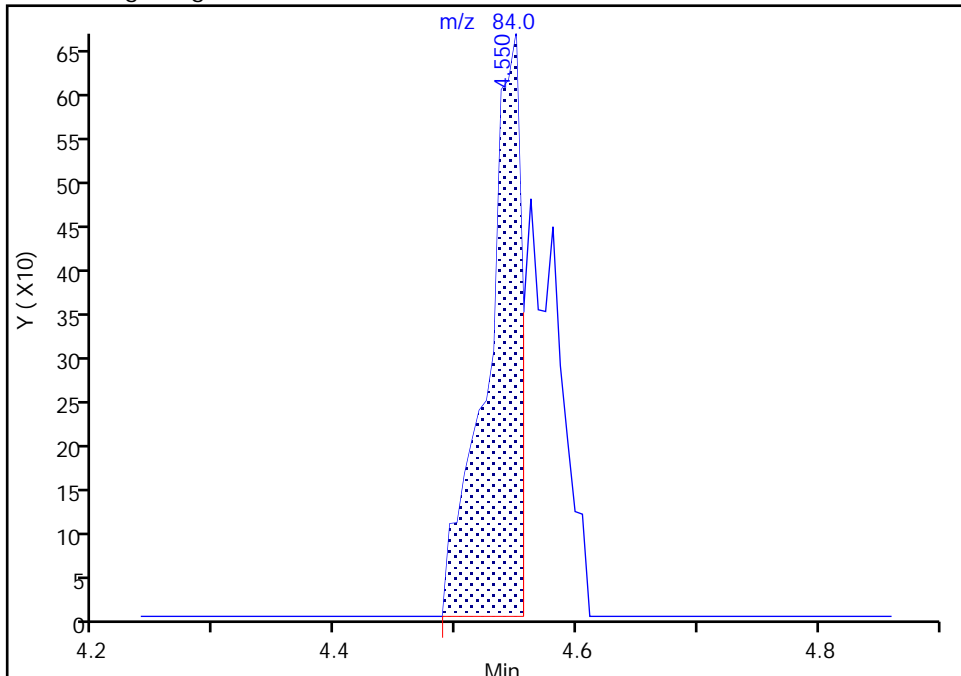
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_019.D  
Injection Date: 07-Aug-2020 20:12:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-1-A Lab Sample ID: 580-96357-1  
Client ID: AB-01A-9.0  
Operator ID: cjb ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

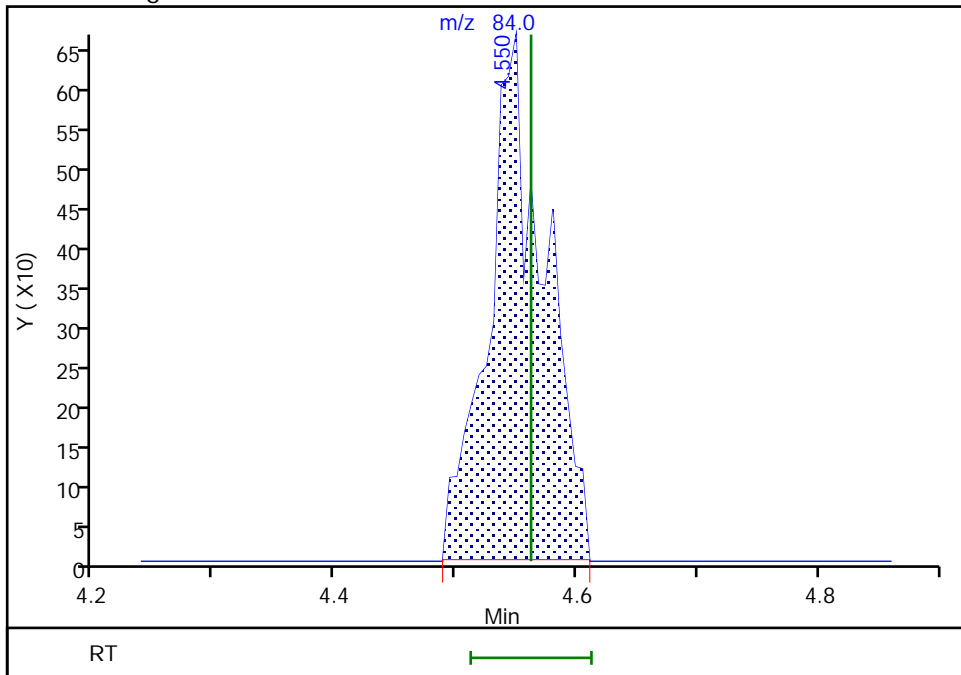
RT: 4.55  
Area: 1315  
Amount: 0.129940  
Amount Units: ug/L

Processing Integration Results



RT: 4.55  
Area: 2159  
Amount: 0.388155  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 10:23:32  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

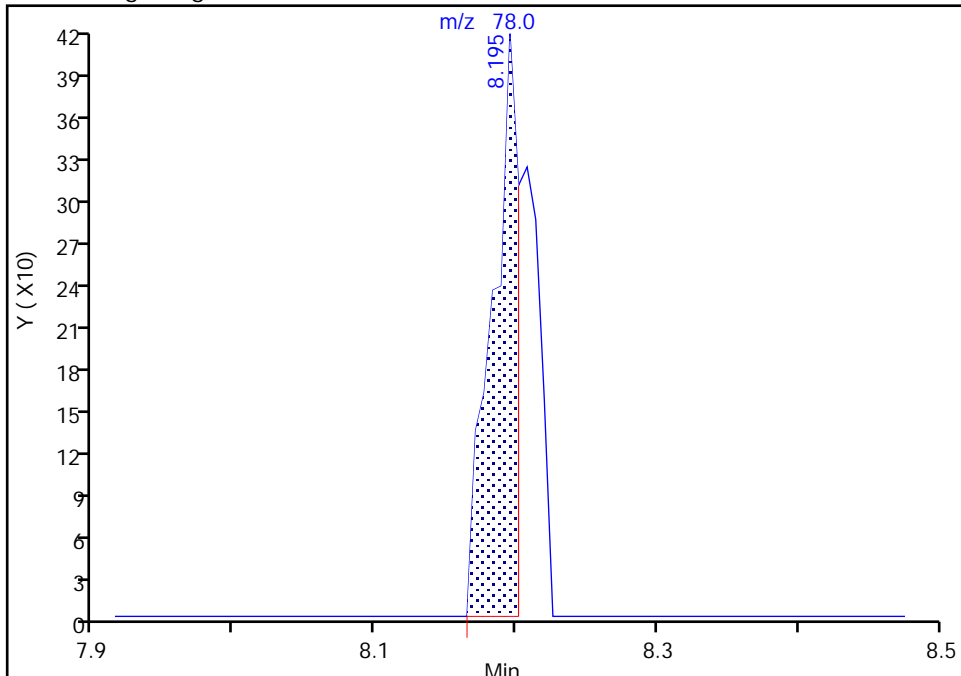
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Injection Date: 07-Aug-2020 20:12:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-1-A Lab Sample ID: 580-96357-1  
Client ID: AB-01A-9.0  
Operator ID: cjb ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

53 Benzene, CAS: 71-43-2

Signal: 1

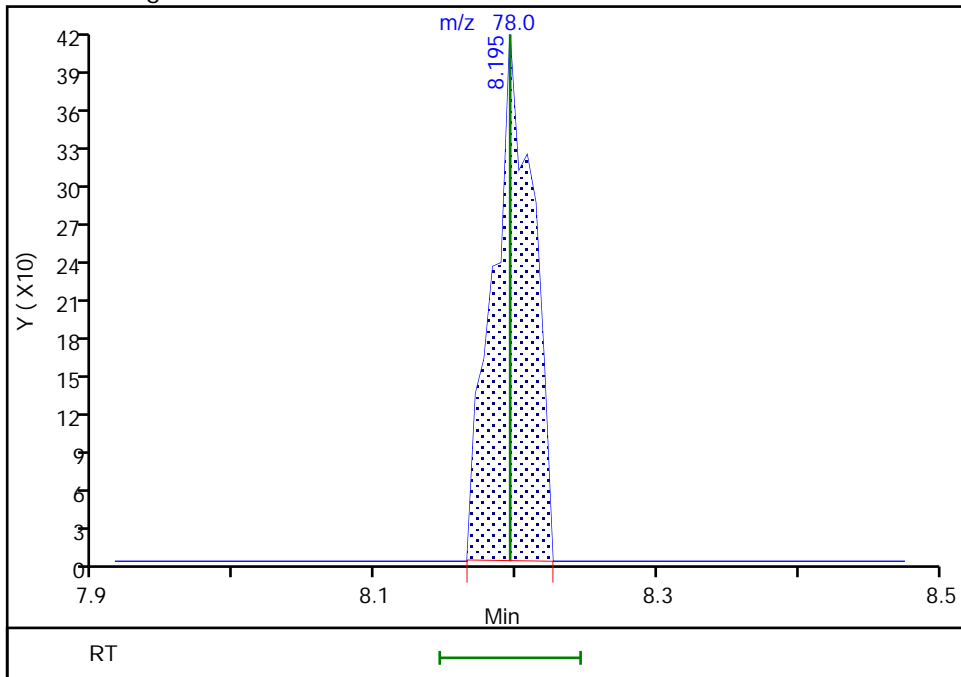
RT: 8.20  
Area: 537  
Amount: 0.039899  
Amount Units: ug/L

Processing Integration Results



RT: 8.20  
Area: 809  
Amount: 0.060109  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 10:23:43  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

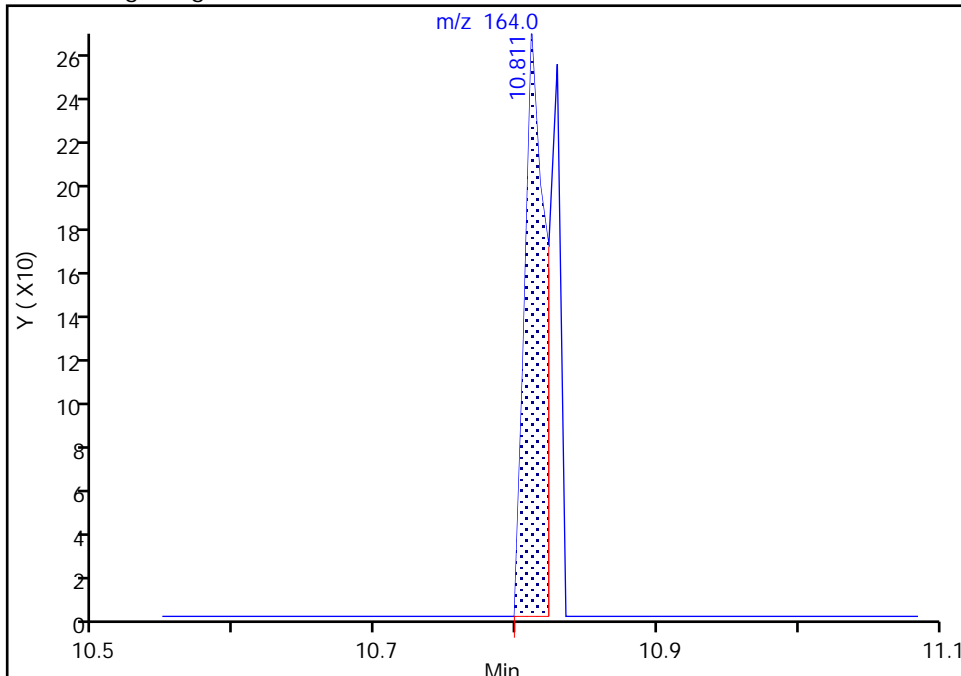
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_019.D  
Injection Date: 07-Aug-2020 20:12:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-1-A Lab Sample ID: 580-96357-1  
Client ID: AB-01A-9.0  
Operator ID: cjb ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

79 Tetrachloroethene, CAS: 127-18-4

Signal: 1

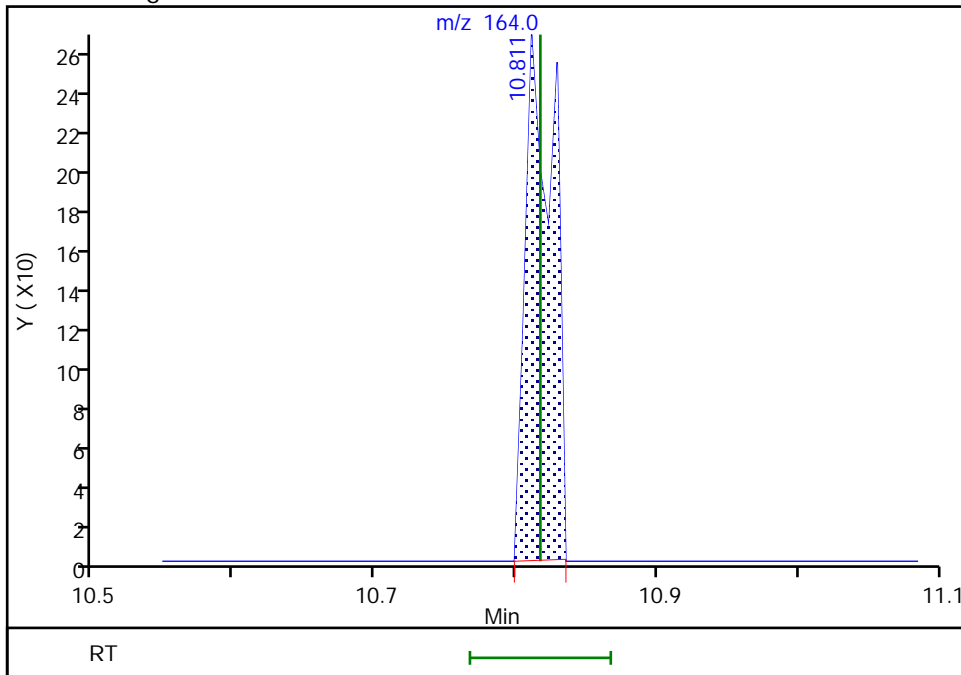
RT: 10.81  
Area: 276  
Amount: 0.059113  
Amount Units: ug/L

Processing Integration Results



RT: 10.81  
Area: 368  
Amount: 0.078817  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 10:23:54  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

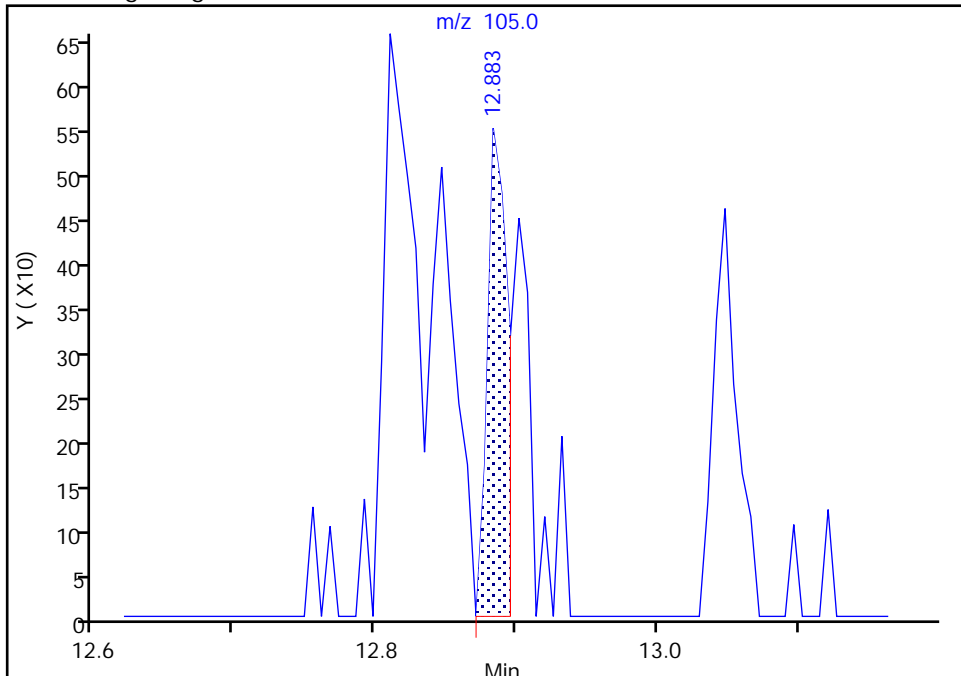
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_019.D  
Injection Date: 07-Aug-2020 20:12:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-1-A Lab Sample ID: 580-96357-1  
Client ID: AB-01A-9.0  
Operator ID: cjb ALS Bottle#: 19 Worklist Smp#: 19  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

97 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

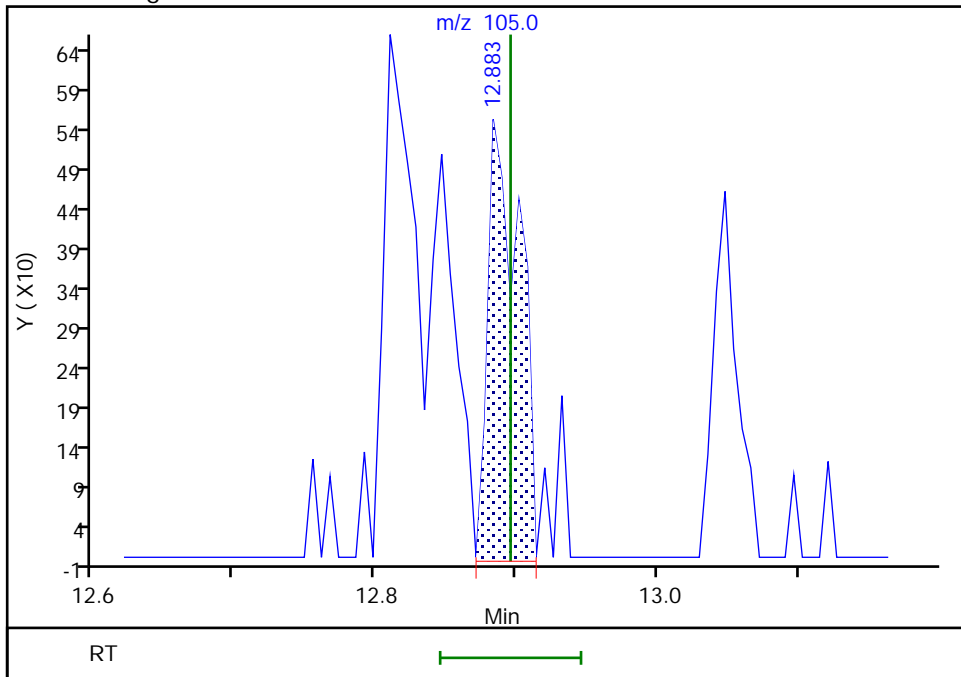
RT: 12.88  
Area: 557  
Amount: 0.036081  
Amount Units: ug/L

Processing Integration Results



RT: 12.88  
Area: 870  
Amount: 0.056356  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 10:24:06  
Audit Action: Manually Integrated

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-02A-16.0 Lab Sample ID: 580-96357-2  
 Matrix: Solid Lab File ID: 08072020\_020.D  
 Analysis Method: 8260D Date Collected: 07/28/2020 11:45  
 Sample wt/vol: 6.069(g) Date Analyzed: 08/07/2020 20:39  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 21.7 Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	ND		2.1	
74-87-3	Chloromethane	ND		5.3	
75-01-4	Vinyl chloride	ND		2.1	
74-83-9	Bromomethane	ND		1.1	
75-00-3	Chloroethane	ND		11	
75-69-4	Trichlorofluoromethane	ND		2.1	
75-35-4	1,1-Dichloroethene	ND		5.3	
75-09-2	Methylene Chloride	ND		42	
1634-04-4	Methyl tert-butyl ether	ND		2.1	
156-60-5	trans-1,2-Dichloroethene	ND		2.1	
75-34-3	1,1-Dichloroethane	ND		1.1	
594-20-7	2,2-Dichloropropane	ND		5.3	
156-59-2	cis-1,2-Dichloroethene	5.3		3.2	
74-97-5	Chlorobromomethane	ND		2.1	
67-66-3	Chloroform	ND		2.1	
71-55-6	1,1,1-Trichloroethane	ND		2.1	
56-23-5	Carbon tetrachloride	ND		2.1	
563-58-6	1,1-Dichloropropene	ND		2.1	
71-43-2	Benzene	ND		2.1	
107-06-2	1,2-Dichloroethane	ND		1.1	
79-01-6	Trichloroethene	ND		2.1	
78-87-5	1,2-Dichloropropane	ND		2.1	
74-95-3	Dibromomethane	ND		1.1	
75-27-4	Dichlorobromomethane	ND		1.1	
10061-01-5	cis-1,3-Dichloropropene	ND		1.1	
108-88-3	Toluene	ND		11	
10061-02-6	trans-1,3-Dichloropropene	ND		11	
79-00-5	1,1,2-Trichloroethane	ND		2.1	
127-18-4	Tetrachloroethene	ND		2.1	
142-28-9	1,3-Dichloropropane	ND		2.1	
124-48-1	Chlorodibromomethane	ND		1.6	
106-93-4	Ethylene Dibromide	ND		1.1	
108-90-7	Chlorobenzene	ND		2.1	
630-20-6	1,1,1,2-Tetrachloroethane	ND		3.2	
100-41-4	Ethylbenzene	ND		2.1	
179601-23-1	m-Xylene & p-Xylene	ND		11	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-02A-16.0 Lab Sample ID: 580-96357-2  
 Matrix: Solid Lab File ID: 08072020\_020.D  
 Analysis Method: 8260D Date Collected: 07/28/2020 11:45  
 Sample wt/vol: 6.069(g) Date Analyzed: 08/07/2020 20:39  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 21.7 Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	ND		5.3	
100-42-5	Styrene	ND		3.2	
75-25-2	Bromoform	ND		5.3	
98-82-8	Isopropylbenzene	ND		2.1	
108-86-1	Bromobenzene	ND		11	
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.2	
96-18-4	1,2,3-Trichloropropane	ND		5.3	
103-65-1	N-Propylbenzene	ND		5.3	
95-49-8	2-Chlorotoluene	ND		5.3	
106-43-4	4-Chlorotoluene	ND		5.3	
98-06-6	tert-Butylbenzene	ND		3.2	
95-63-6	1,2,4-Trimethylbenzene	ND		5.3	
135-98-8	sec-Butylbenzene	ND		3.2	
99-87-6	4-Isopropyltoluene	ND		2.1	
541-73-1	1,3-Dichlorobenzene	ND		5.3	
106-46-7	1,4-Dichlorobenzene	ND		5.3	
104-51-8	n-Butylbenzene	ND		3.2	
95-50-1	1,2-Dichlorobenzene	ND		11	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	*	11	
120-82-1	1,2,4-Trichlorobenzene	ND		2.1	
87-68-3	Hexachlorobutadiene	ND		3.2	
91-20-3	Naphthalene	ND	*	11	
87-61-6	1,2,3-Trichlorobenzene	ND		3.2	
108-67-8	1,3,5-Trimethylbenzene	ND		5.3	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		80-121
460-00-4	4-Bromofluorobenzene (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_020.D  
 Lims ID: 580-96357-C-2-A  
 Client ID: AB-02A-16.0  
 Sample Type: Client  
 Inject. Date: 07-Aug-2020 20:39:30 ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 96357-2  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 10:26:26 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc

Date: 10-Aug-2020 10:26:26

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/L	Flags
5 Vinyl chloride	62	2.081	2.075	0.006	18	1495	0.6187	M
23 Methylene Chloride	84	4.556	4.562	-0.006	28	2360	0.4552	M
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	63521	200.0	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	73	18631	5.00	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.732	0.006	57	34149	10.3	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	33118	10.9	
53 Benzene	78	8.201	8.195	0.006	30	1286	0.0963	M
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	100	133550	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	93	143513	9.55	
74 Toluene	91	10.341	10.341	0.000	26	932	0.0534	M
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	75	126043	10.0	
83 Ethylbenzene	91	11.682	11.683	-0.001	1	643	0.0342	
84 m-Xylene & p-Xylene	91	11.786	11.792	-0.006	0	2014	0.1439	
88 o-Xylene	91	12.115	12.115	0.000	1	10391	0.7549	a
91 Isopropylbenzene	105	12.420	12.414	0.006	1	2749	0.1484	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	95	63358	10.5	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	1	2429	0.1440	
98 tert-Butylbenzene	119	13.152	13.152	0.000	1	6160	0.3896	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	58	9871	0.9657	
100 sec-Butylbenzene	105	13.322	13.322	0.000	91	42674	1.87	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	1	260	0.0220	
105 4-Isopropyltoluene	119	13.438	13.444	-0.006	24	3849	0.1889	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	80	80264	10.0	
107 1,2-Dichlorobenzene	146	13.798	13.792	0.006	26	2850	0.2601	
111 1,2,4-Trichlorobenzene	180	15.029	15.042	-0.013	16	724	0.0915	
112 Naphthalene	128	15.249	15.249	0.000	85	9028	0.6897	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	1	713	0.1014	

**QC Flag Legend**

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_020.D

Injection Date: 07-Aug-2020 20:39:30

Instrument ID: TAC119

Lims ID: 580-96357-C-2-A

Lab Sample ID: 580-96357-2

Client ID: AB-02A-16.0

Operator ID: cjb

ALS Bottle#: 20

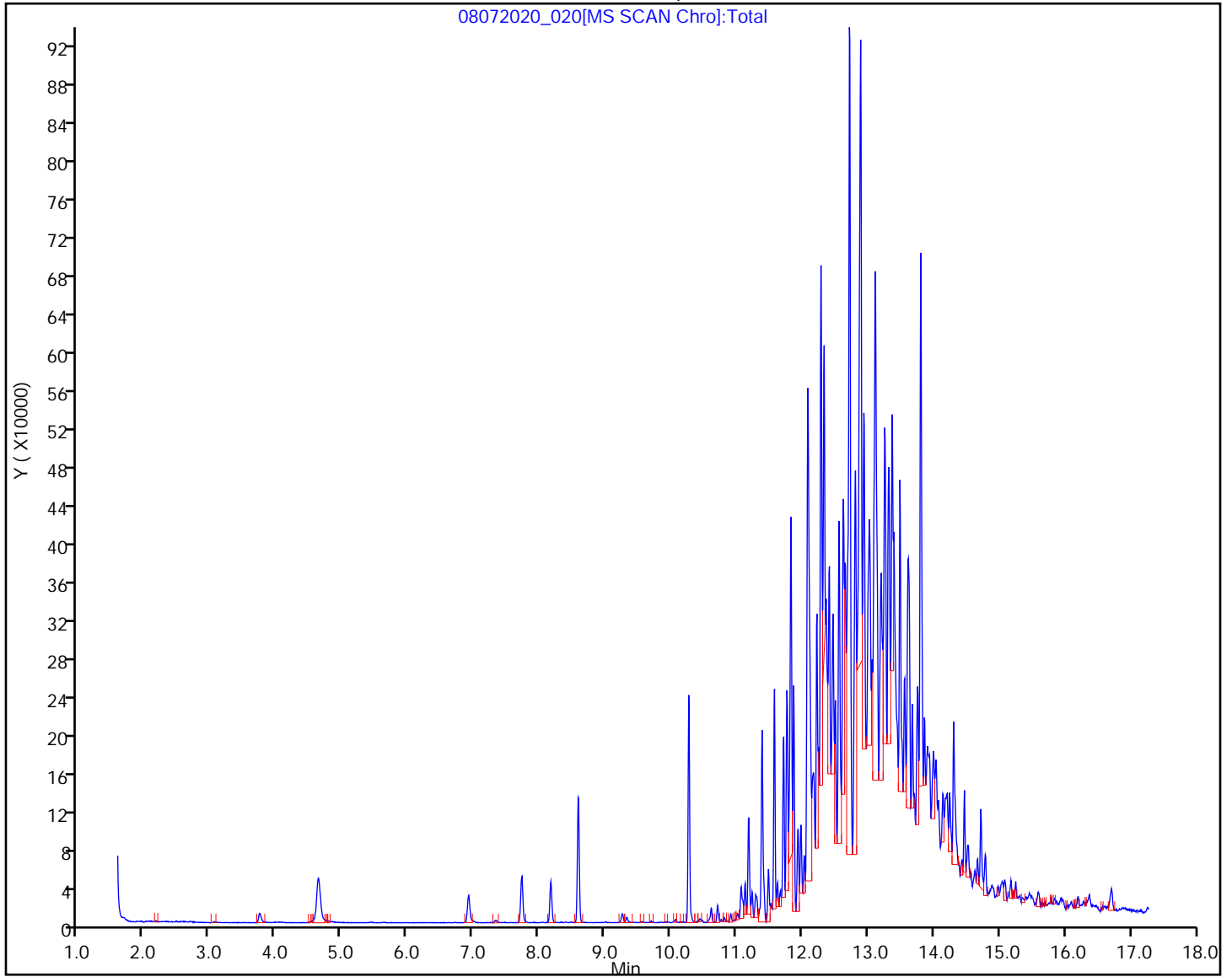
Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_020.D  
 Lims ID: 580-96357-C-2-A  
 Client ID: AB-02A-16.0  
 Sample Type: Client  
 Inject. Date: 07-Aug-2020 20:39:30 ALS Bottle#: 20 Worklist Smp#: 20  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 96357-2  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 10:26:26 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc Date: 10-Aug-2020 10:26:26

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	10.3	103.49
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	10.9	108.97
\$ 72 Toluene-d8 (Surr)	10.0	9.55	95.50
\$ 92 4-Bromofluorobenzene (Surr)	10.0	10.5	105.13
\$ 118 BFB	0.0	0	0.00

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_020.D

Injection Date: 07-Aug-2020 20:39:30

Instrument ID: TAC119

Lims ID: 580-96357-C-2-A

Lab Sample ID: 580-96357-2

Client ID: AB-02A-16.0

Operator ID: cjb

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

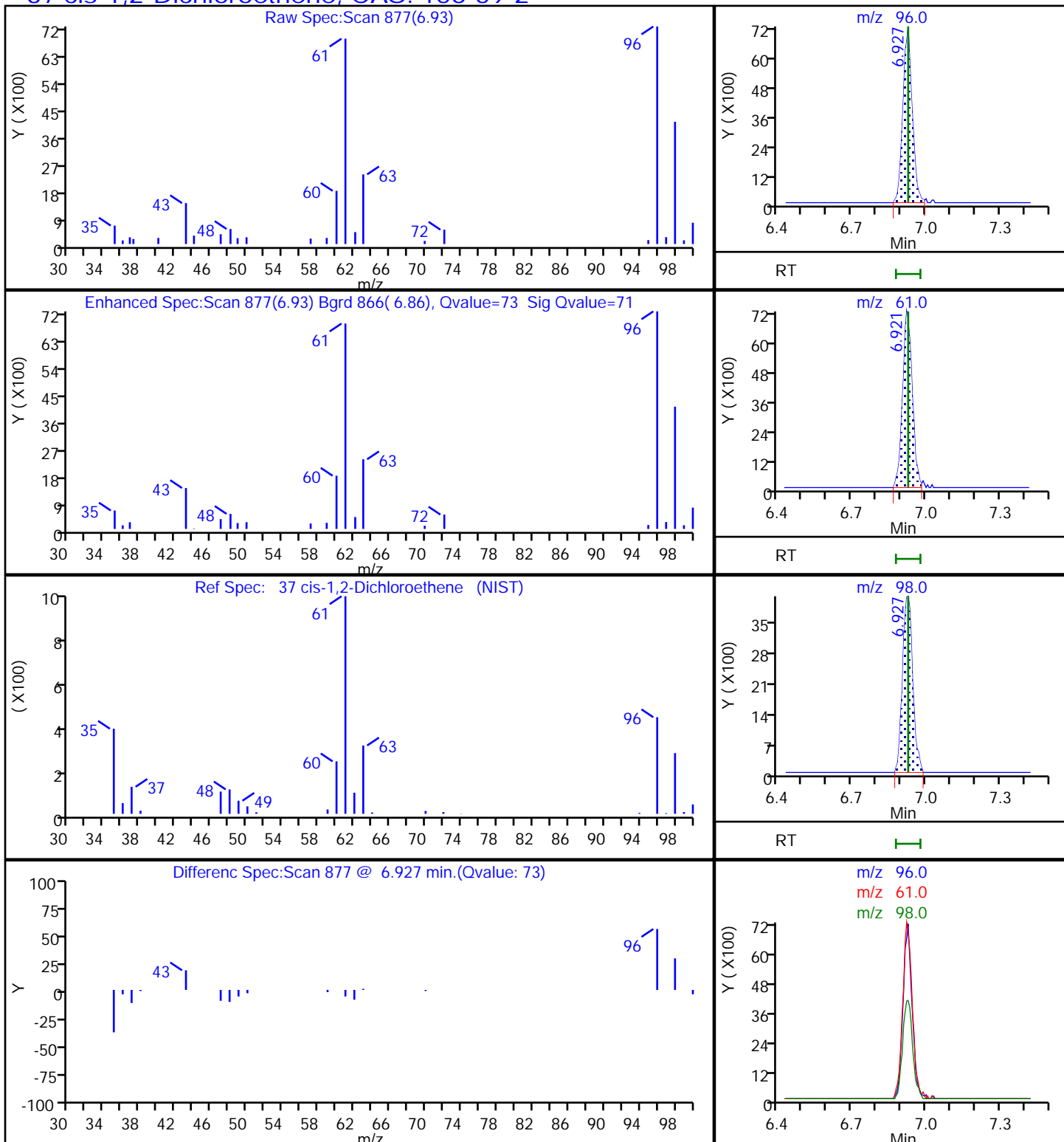
Method: DSS TAC119

Limit Group: 8260C

Column:

Detector MS SCAN

### 37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins TestAmerica, Seattle

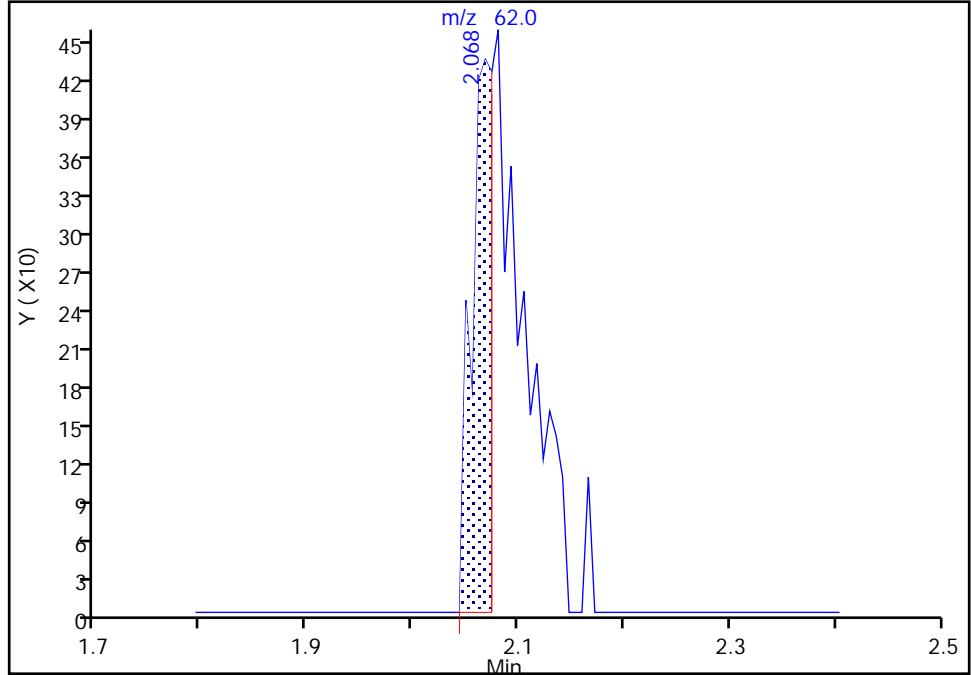
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Injection Date: 07-Aug-2020 20:39:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-2-A Lab Sample ID: 580-96357-2  
Client ID: AB-02A-16.0  
Operator ID: cjb ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

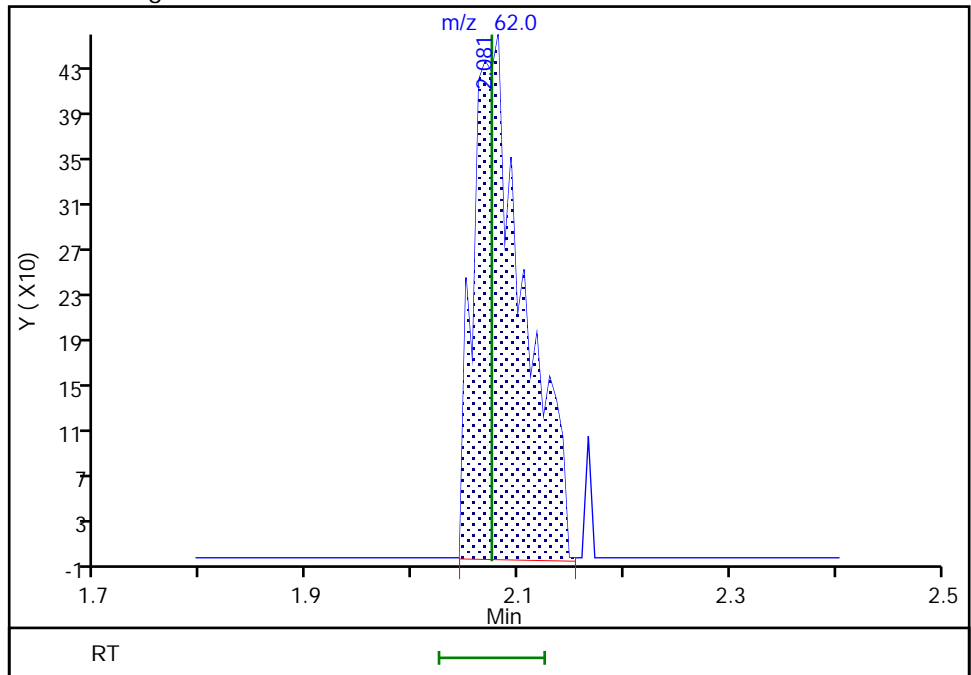
RT: 2.07  
Area: 610  
Amount: 0.252426  
Amount Units: ug/L

Processing Integration Results



RT: 2.08  
Area: 1495  
Amount: 0.618652  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 10:24:42  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

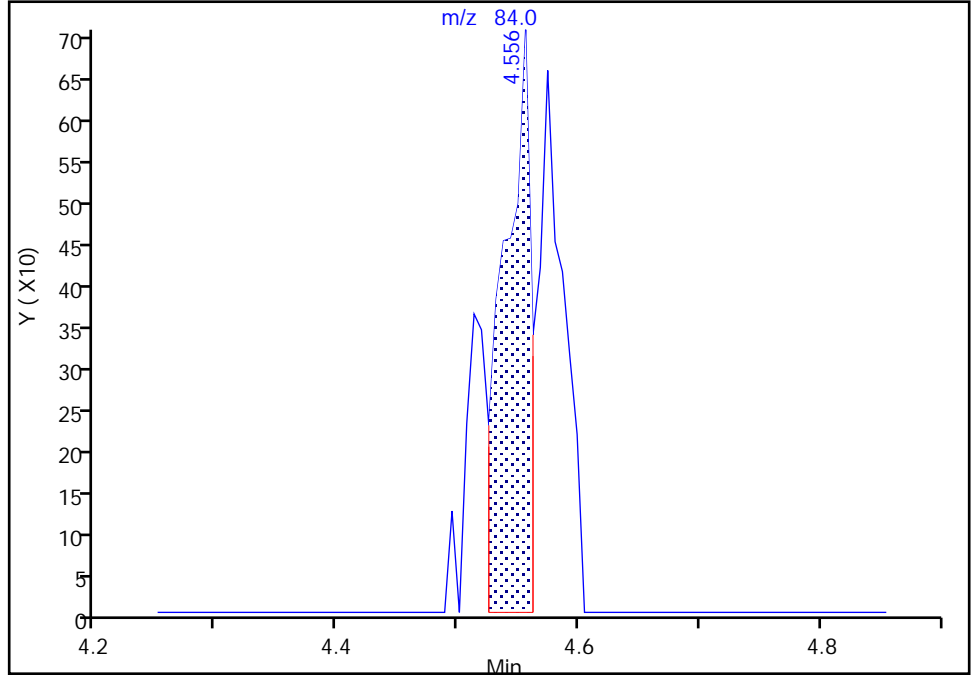
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Injection Date: 07-Aug-2020 20:39:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-2-A Lab Sample ID: 580-96357-2  
Client ID: AB-02A-16.0  
Operator ID: cjb ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

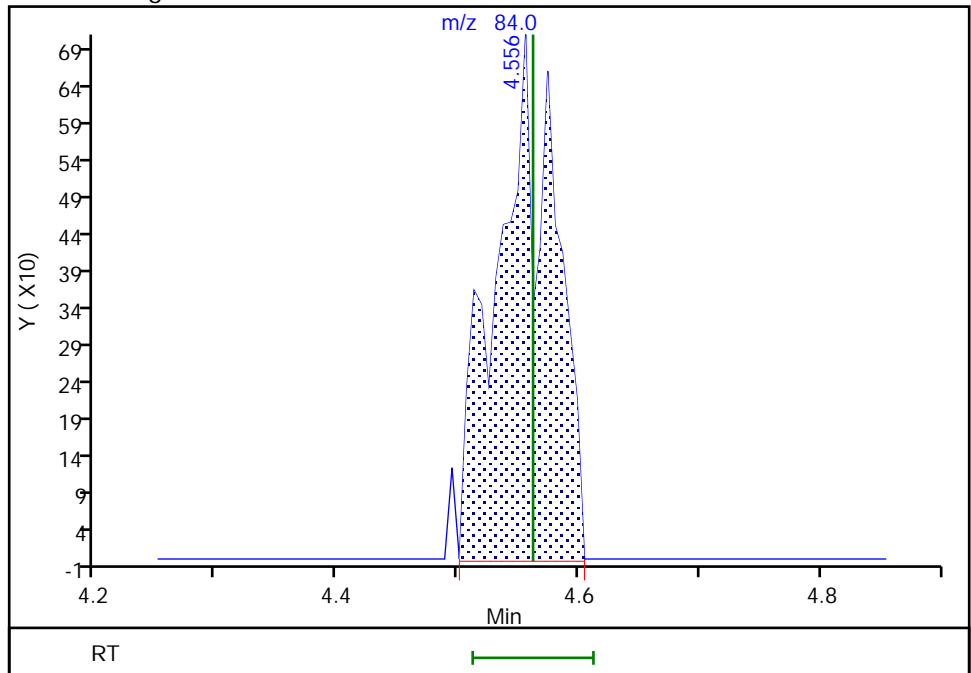
RT: 4.56  
Area: 1107  
Amount: 0.068934  
Amount Units: ug/L

Processing Integration Results



RT: 4.56  
Area: 2360  
Amount: 0.455205  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 10:24:48  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

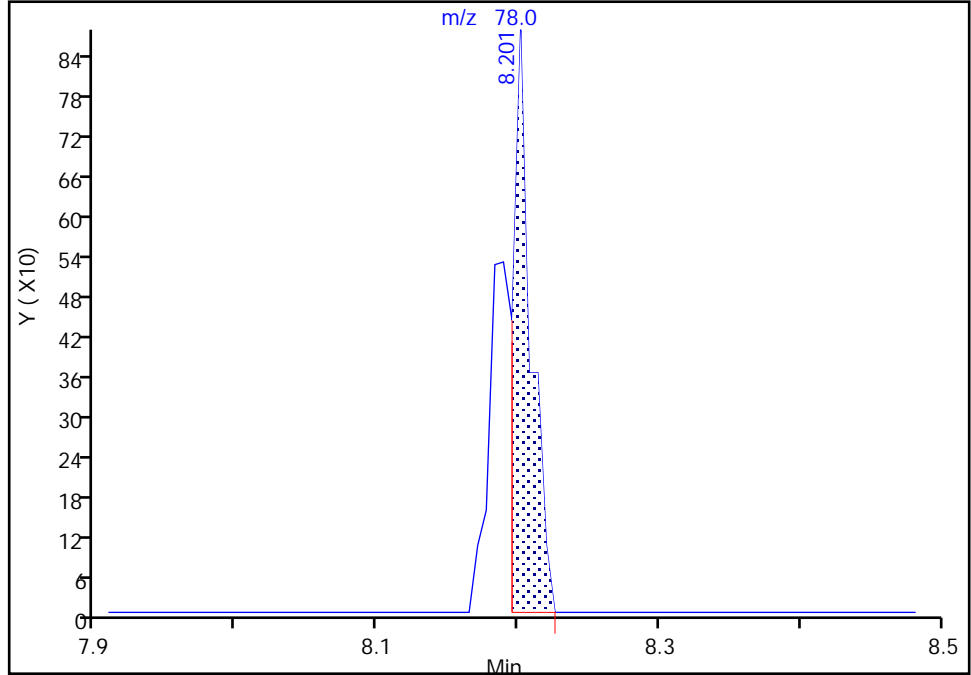
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Injection Date: 07-Aug-2020 20:39:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-2-A Lab Sample ID: 580-96357-2  
Client ID: AB-02A-16.0  
Operator ID: cjb ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

53 Benzene, CAS: 71-43-2

Signal: 1

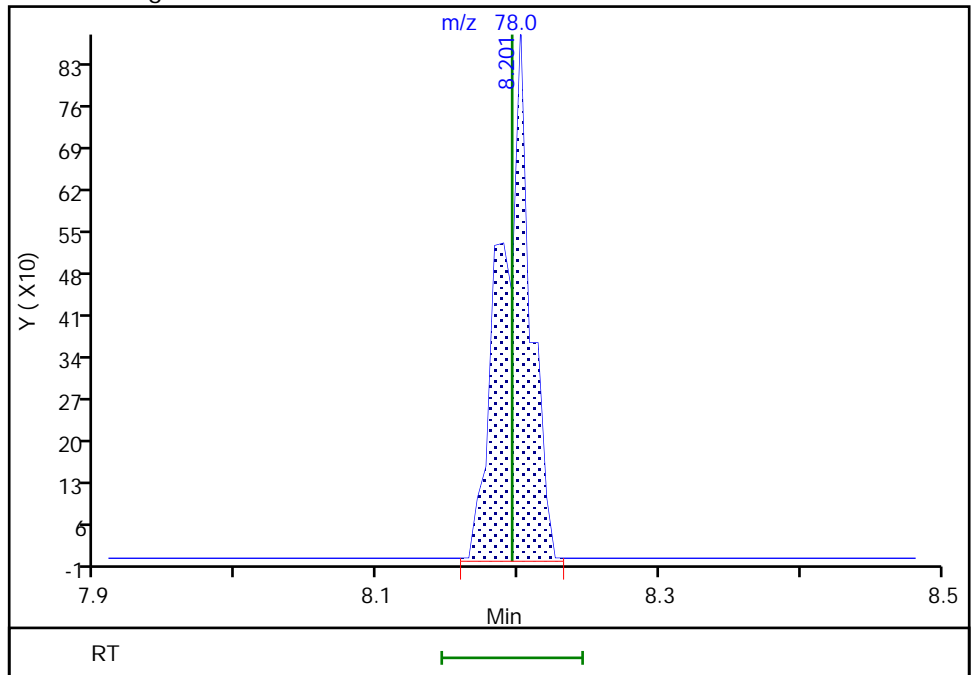
RT: 8.20  
Area: 784  
Amount: 0.058695  
Amount Units: ug/L

Processing Integration Results



RT: 8.20  
Area: 1286  
Amount: 0.096278  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 10:24:58  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

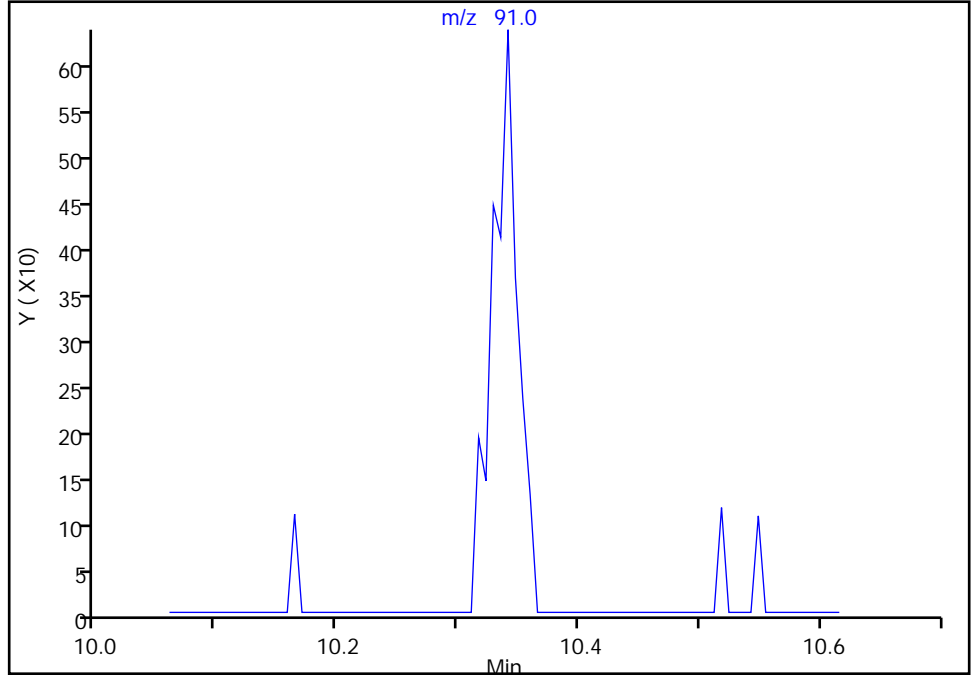
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Injection Date: 07-Aug-2020 20:39:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-2-A Lab Sample ID: 580-96357-2  
Client ID: AB-02A-16.0  
Operator ID: cjb ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

74 Toluene, CAS: 108-88-3

Signal: 1

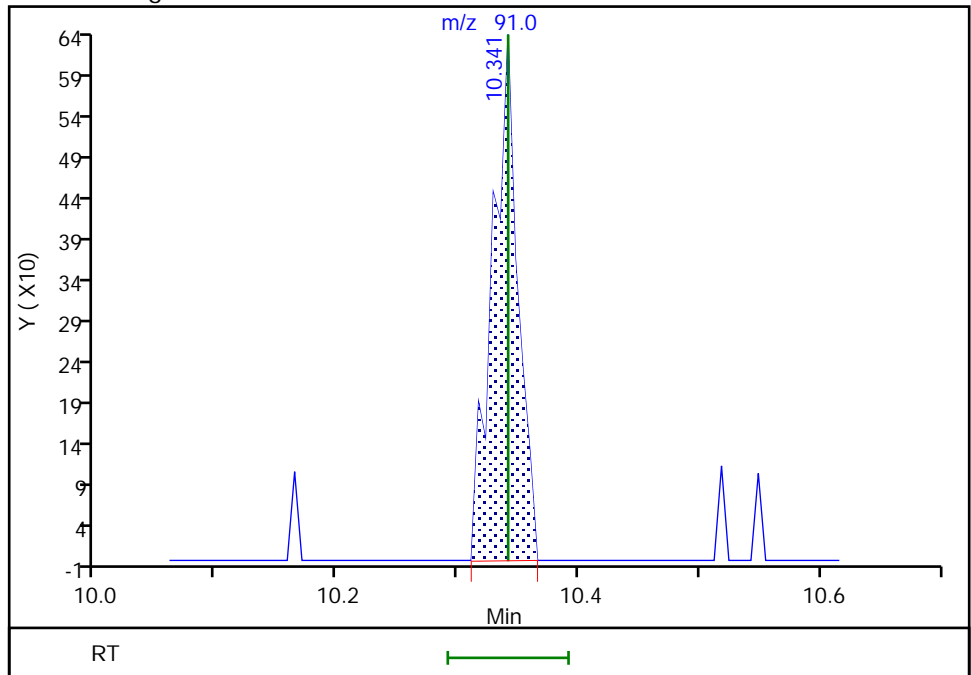
Not Detected  
Expected RT: 10.34

Processing Integration Results



Manual Integration Results

RT: 10.34  
Area: 932  
Amount: 0.053372  
Amount Units: ug/L



Reviewer: jantanuc, 10-Aug-2020 10:25:06  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

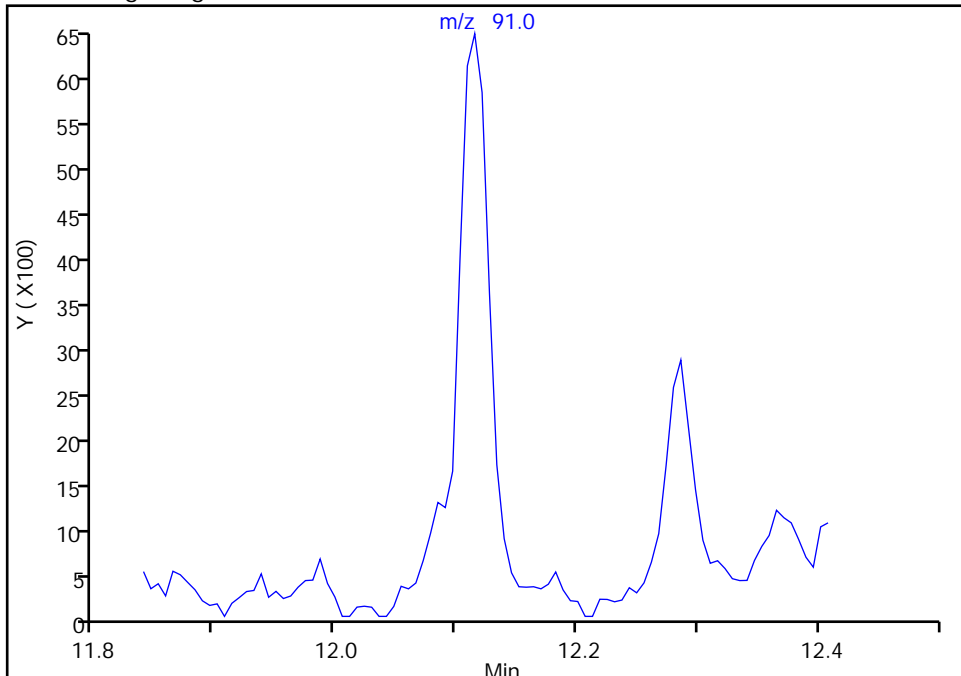
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Injection Date: 07-Aug-2020 20:39:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-2-A Lab Sample ID: 580-96357-2  
Client ID: AB-02A-16.0  
Operator ID: cjb ALS Bottle#: 20 Worklist Smp#: 20  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

88 o-Xylene, CAS: 95-47-6

Signal: 1

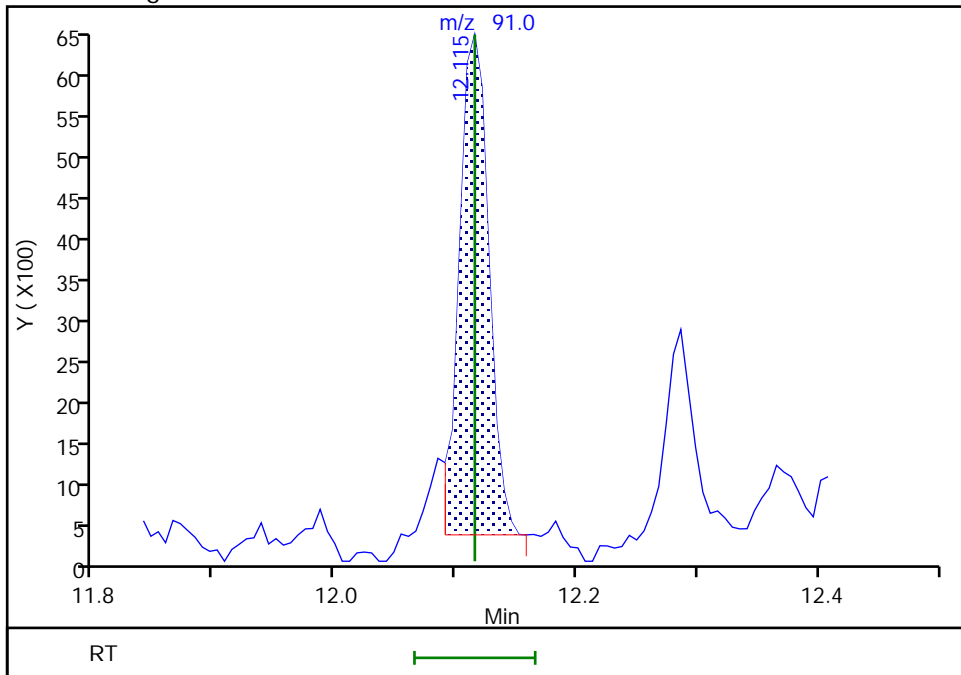
Not Detected  
Expected RT: 12.12

Processing Integration Results



Manual Integration Results

RT: 12.12  
Area: 10391  
Amount: 0.754923  
Amount Units: ug/L



Reviewer: jantanuc, 10-Aug-2020 10:25:57  
Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_020.D

Injection Date: 07-Aug-2020 20:39:30

Instrument ID: TAC119

Lims ID: 580-96357-C-2-A

Lab Sample ID: 580-96357-2

Client ID: AB-02A-16.0

Operator ID: cjb

ALS Bottle#: 20

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

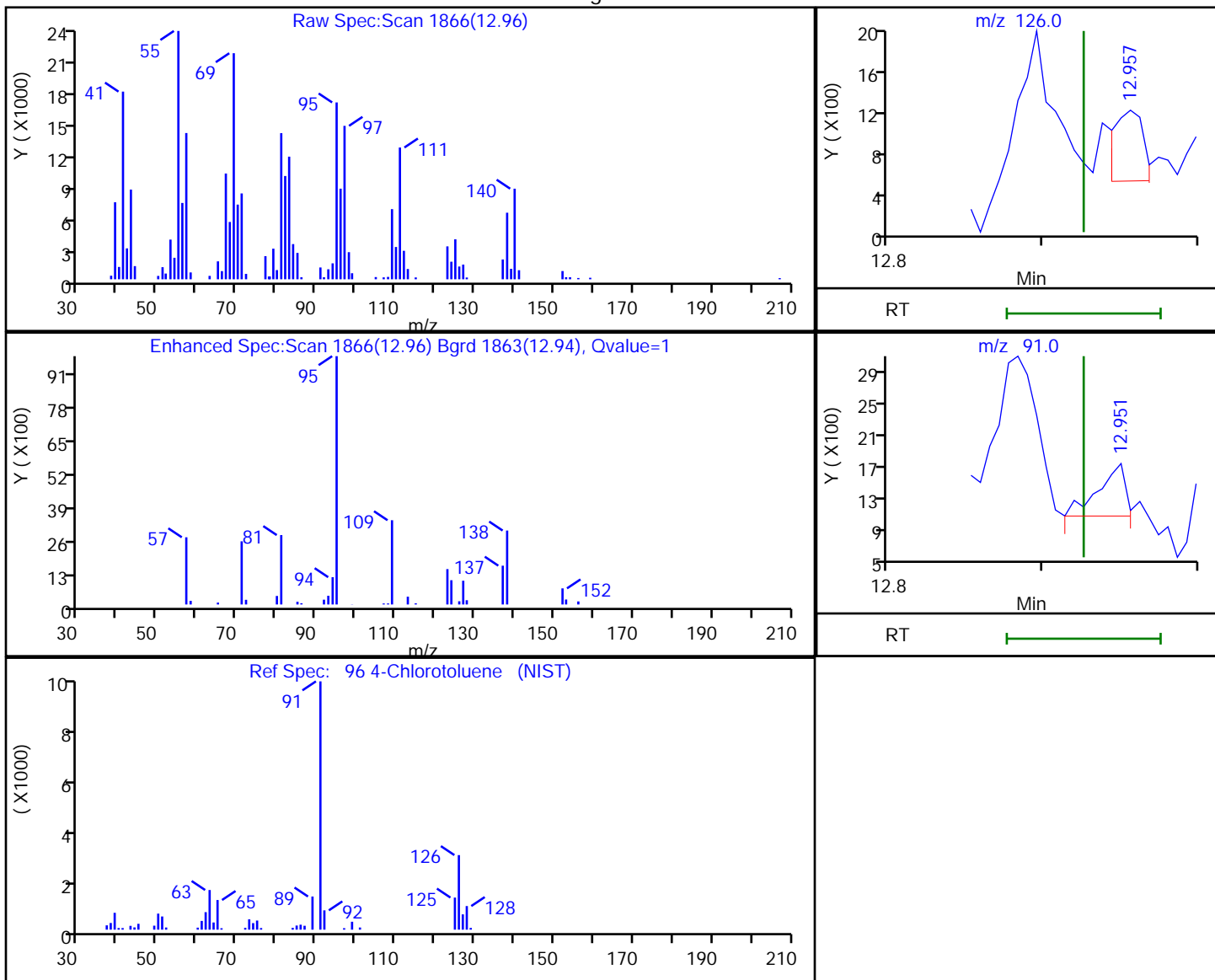
Limit Group: 8260C

Column:

Detector: MS SCAN

96 4-Chlorotoluene, CAS: 106-43-4

Processing Results



RT	Mass	Response	Amount
12.96	126.00	956	0.169862
12.95	91.00	802	

Reviewer: jantanuc, 10-Aug-2020 10:26:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-03A-15.0 Lab Sample ID: 580-96357-3  
 Matrix: Solid Lab File ID: 08072020\_021.D  
 Analysis Method: 8260D Date Collected: 07/28/2020 12:30  
 Sample wt/vol: 5.993(g) Date Analyzed: 08/07/2020 21:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 20.6 Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	ND		2.1	
74-87-3	Chloromethane	ND		5.3	
75-01-4	Vinyl chloride	ND		2.1	
74-83-9	Bromomethane	ND		1.1	
75-00-3	Chloroethane	ND		11	
75-69-4	Trichlorofluoromethane	ND		2.1	
75-35-4	1,1-Dichloroethene	ND		5.3	
75-09-2	Methylene Chloride	ND		42	
1634-04-4	Methyl tert-butyl ether	ND		2.1	
156-60-5	trans-1,2-Dichloroethene	ND		2.1	
75-34-3	1,1-Dichloroethane	ND		1.1	
594-20-7	2,2-Dichloropropane	ND		5.3	
156-59-2	cis-1,2-Dichloroethene	ND		3.2	
74-97-5	Chlorobromomethane	ND		2.1	
67-66-3	Chloroform	ND		2.1	
71-55-6	1,1,1-Trichloroethane	ND		2.1	
56-23-5	Carbon tetrachloride	ND		2.1	
563-58-6	1,1-Dichloropropene	ND		2.1	
71-43-2	Benzene	ND		2.1	
107-06-2	1,2-Dichloroethane	ND		1.1	
79-01-6	Trichloroethene	ND		2.1	
78-87-5	1,2-Dichloropropane	ND		2.1	
74-95-3	Dibromomethane	ND		1.1	
75-27-4	Dichlorobromomethane	ND		1.1	
10061-01-5	cis-1,3-Dichloropropene	ND		1.1	
108-88-3	Toluene	ND		11	
10061-02-6	trans-1,3-Dichloropropene	ND		11	
79-00-5	1,1,2-Trichloroethane	ND		2.1	
127-18-4	Tetrachloroethene	ND		2.1	
142-28-9	1,3-Dichloropropane	ND		2.1	
124-48-1	Chlorodibromomethane	ND		1.6	
106-93-4	Ethylene Dibromide	ND		1.1	
108-90-7	Chlorobenzene	ND		2.1	
630-20-6	1,1,1,2-Tetrachloroethane	ND		3.2	
100-41-4	Ethylbenzene	ND		2.1	
179601-23-1	m-Xylene & p-Xylene	ND		11	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-03A-15.0 Lab Sample ID: 580-96357-3  
 Matrix: Solid Lab File ID: 08072020\_021.D  
 Analysis Method: 8260D Date Collected: 07/28/2020 12:30  
 Sample wt/vol: 5.993(g) Date Analyzed: 08/07/2020 21:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 20.6 Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	ND		5.3	
100-42-5	Styrene	ND		3.2	
75-25-2	Bromoform	ND		5.3	
98-82-8	Isopropylbenzene	ND		2.1	
108-86-1	Bromobenzene	ND		11	
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.2	
96-18-4	1,2,3-Trichloropropane	ND		5.3	
103-65-1	N-Propylbenzene	ND		5.3	
95-49-8	2-Chlorotoluene	ND		5.3	
106-43-4	4-Chlorotoluene	ND		5.3	
98-06-6	tert-Butylbenzene	ND		3.2	
95-63-6	1,2,4-Trimethylbenzene	ND		5.3	
135-98-8	sec-Butylbenzene	ND		3.2	
99-87-6	4-Isopropyltoluene	ND		2.1	
541-73-1	1,3-Dichlorobenzene	ND		5.3	
106-46-7	1,4-Dichlorobenzene	ND		5.3	
104-51-8	n-Butylbenzene	ND		3.2	
95-50-1	1,2-Dichlorobenzene	ND		11	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	*	11	
120-82-1	1,2,4-Trichlorobenzene	ND		2.1	
87-68-3	Hexachlorobutadiene	ND		3.2	
91-20-3	Naphthalene	ND	*	11	
87-61-6	1,2,3-Trichlorobenzene	ND		3.2	
108-67-8	1,3,5-Trimethylbenzene	ND		5.3	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		80-121
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_021.D  
 Lims ID: 580-96357-C-3-A  
 Client ID: AB-03A-15.0  
 Sample Type: Client  
 Inject. Date: 07-Aug-2020 21:06:30 ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 96357-3  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 10:28:25 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc

Date: 10-Aug-2020 10:28:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
23 Methylene Chloride	84	4.574	4.562	0.012	36	2287	0.3860	M
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	80054	200.0	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.732	0.006	58	36866	10.4	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	36008	11.1	
53 Benzene	78	8.189	8.195	-0.006	1	812	0.0568	M
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	99	143010	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	92	150225	9.45	
79 Tetrachloroethene	164	10.817	10.817	0.000	67	1189	0.2419	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	80	133316	10.0	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	95	65967	10.3	
99 1,2,4-Trimethylbenzene	105	13.195	13.194	0.000	33	1627	0.5890	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	90	77343	10.0	
111 1,2,4-Trichlorobenzene	180	15.036	15.042	-0.006	1	439	0.0576	
112 Naphthalene	128	15.249	15.249	0.000	73	5393	0.4276	

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_021.D

Injection Date: 07-Aug-2020 21:06:30

Instrument ID: TAC119

Lims ID: 580-96357-C-3-A

Lab Sample ID: 580-96357-3

Client ID: AB-03A-15.0

Operator ID: cjb

ALS Bottle#: 21

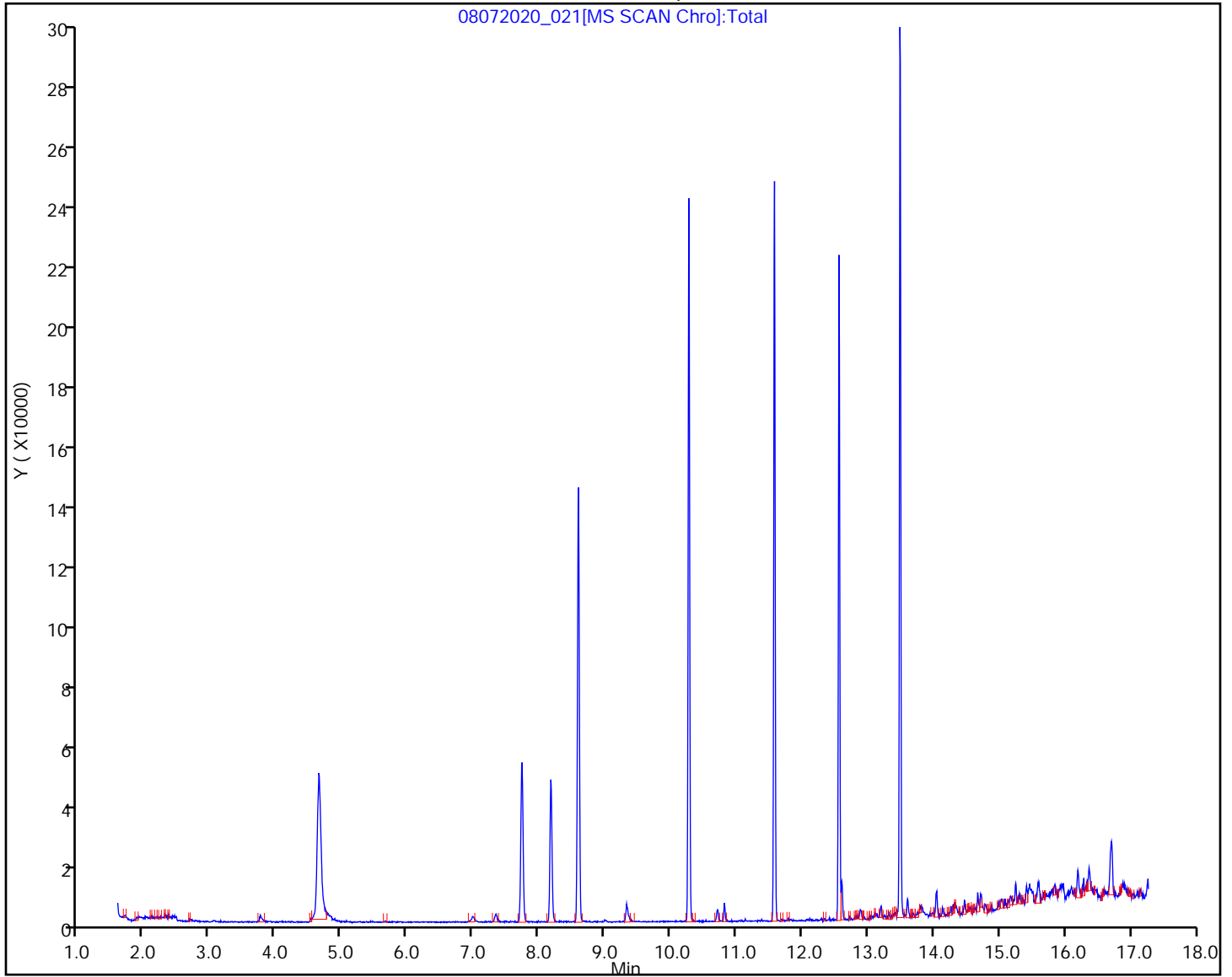
Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_021.D  
 Lims ID: 580-96357-C-3-A  
 Client ID: AB-03A-15.0  
 Sample Type: Client  
 Inject. Date: 07-Aug-2020 21:06:30 ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 96357-3  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 10:28:25 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc Date: 10-Aug-2020 10:28:25

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	10.4	104.33
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	11.1	110.64
\$ 72 Toluene-d8 (Surr)	10.0	9.45	94.51
\$ 92 4-Bromofluorobenzene (Surr)	10.0	10.3	103.49
\$ 118 BFB	0.0	0	0.00



Eurofins TestAmerica, Seattle

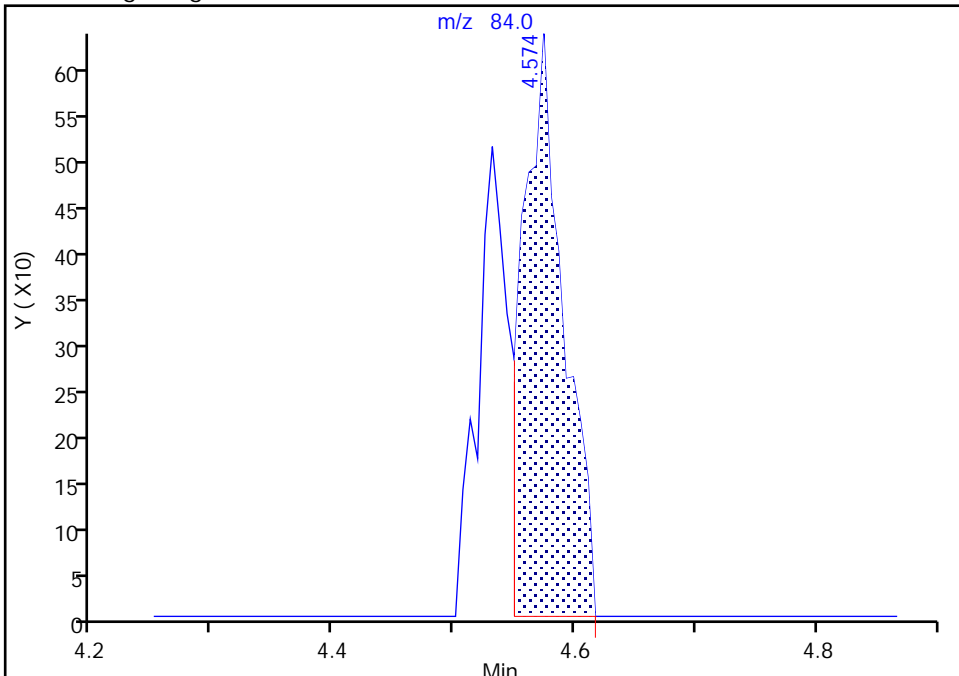
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_021.D  
Injection Date: 07-Aug-2020 21:06:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-3-A Lab Sample ID: 580-96357-3  
Client ID: AB-03A-15.0  
Operator ID: cjb ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

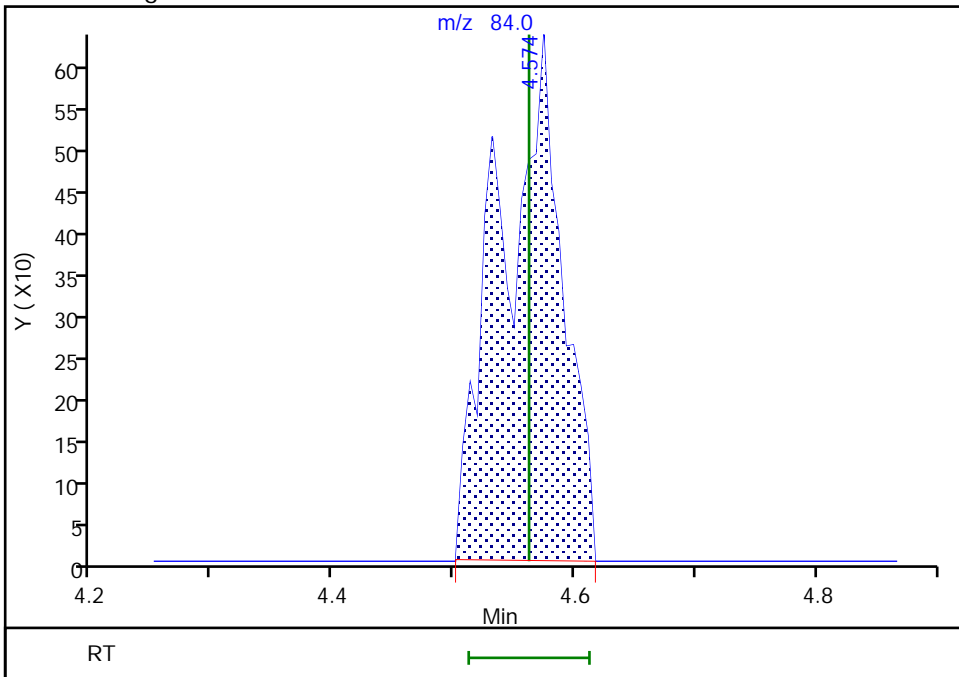
RT: 4.57  
Area: 1486  
Amount: 0.155400  
Amount Units: ug/L

Processing Integration Results



RT: 4.57  
Area: 2287  
Amount: 0.386006  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 10:27:37  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

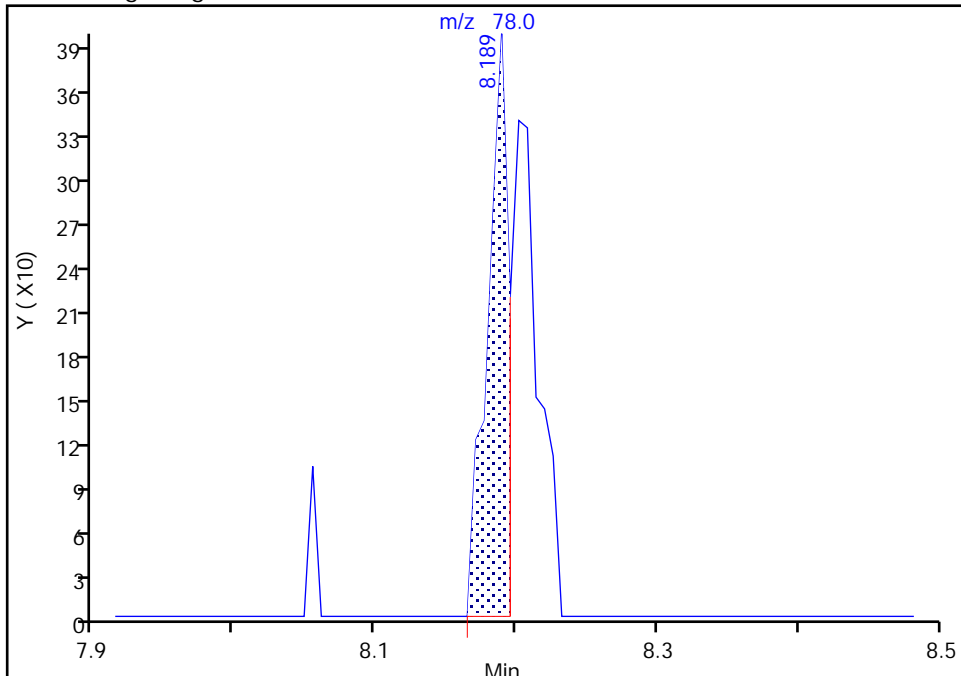
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_021.D  
Injection Date: 07-Aug-2020 21:06:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-3-A Lab Sample ID: 580-96357-3  
Client ID: AB-03A-15.0  
Operator ID: cjb ALS Bottle#: 21 Worklist Smp#: 21  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

53 Benzene, CAS: 71-43-2

Signal: 1

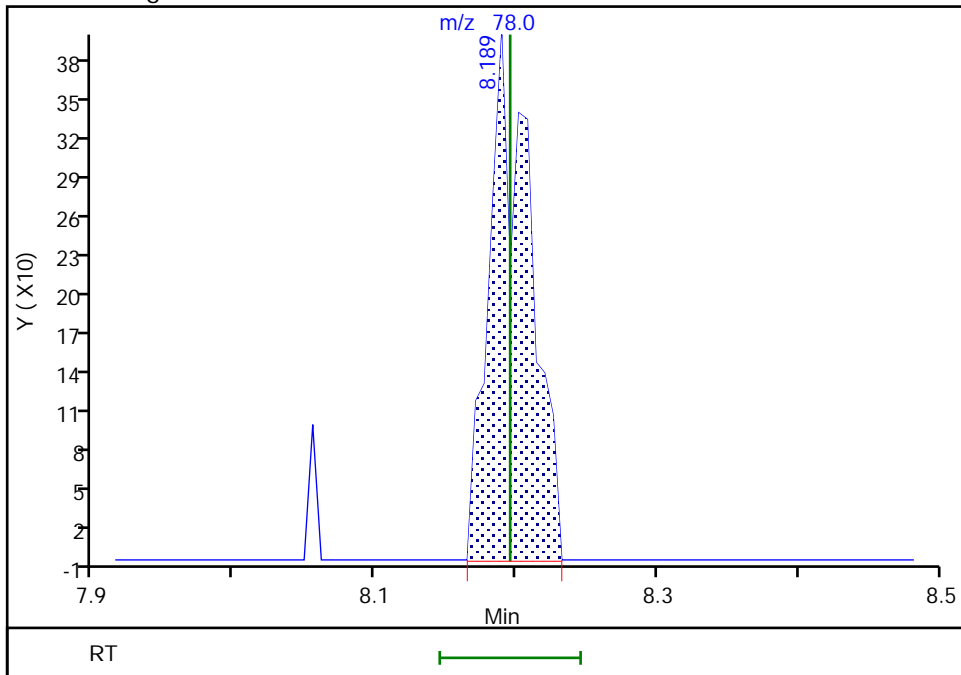
RT: 8.19  
Area: 417  
Amount: 0.029154  
Amount Units: ug/L

Processing Integration Results



RT: 8.19  
Area: 812  
Amount: 0.056770  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 10:27:53  
Audit Action: Manually Integrated

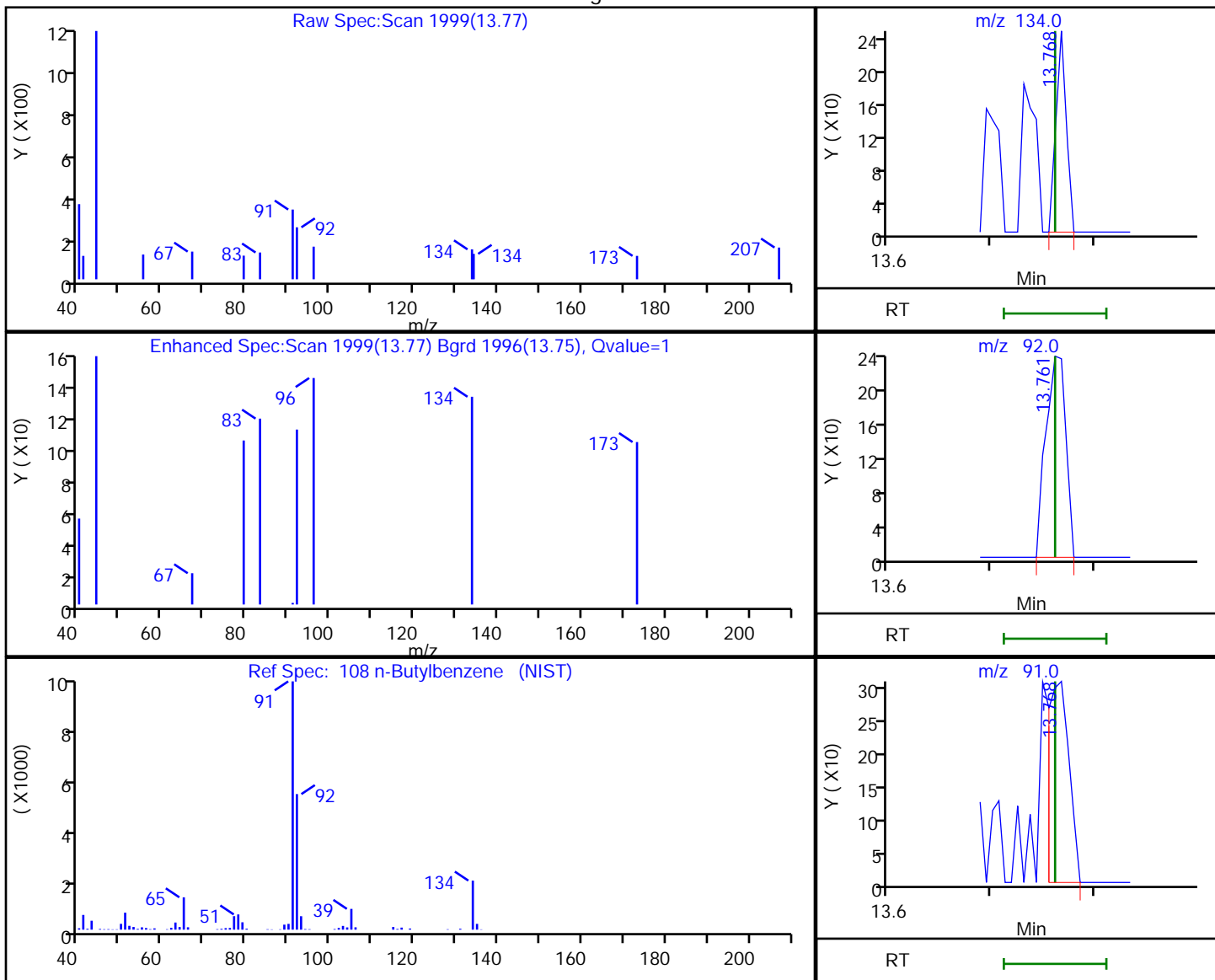
Audit Reason: Baseline  
Page 143 of 425

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_021.D  
 Injection Date: 07-Aug-2020 21:06:30 Instrument ID: TAC119  
 Lims ID: 580-96357-C-3-A Lab Sample ID: 580-96357-3  
 Client ID: AB-03A-15.0  
 Operator ID: cjb ALS Bottle#: 21 Worklist Smp#: 21  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

108 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
13.77	134.00	173	0.032848
13.76	92.00	316	
13.77	91.00	437	

Reviewer: jantanuc, 10-Aug-2020 10:28:13  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-04A-14.0 Lab Sample ID: 580-96357-4  
 Matrix: Solid Lab File ID: 08072020\_022.D  
 Analysis Method: 8260D Date Collected: 07/28/2020 13:15  
 Sample wt/vol: 6.742(g) Date Analyzed: 08/07/2020 21:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 20.3 Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	ND		1.9	
74-87-3	Chloromethane	ND		4.7	
75-01-4	Vinyl chloride	ND		1.9	
74-83-9	Bromomethane	ND		0.93	
75-00-3	Chloroethane	ND		9.3	
75-69-4	Trichlorofluoromethane	ND		1.9	
75-35-4	1,1-Dichloroethene	ND		4.7	
75-09-2	Methylene Chloride	ND		37	
1634-04-4	Methyl tert-butyl ether	ND		1.9	
156-60-5	trans-1,2-Dichloroethene	ND		1.9	
75-34-3	1,1-Dichloroethane	ND		0.93	
594-20-7	2,2-Dichloropropane	ND		4.7	
156-59-2	cis-1,2-Dichloroethene	2.9		2.8	
74-97-5	Chlorobromomethane	ND		1.9	
67-66-3	Chloroform	ND		1.9	
71-55-6	1,1,1-Trichloroethane	ND		1.9	
56-23-5	Carbon tetrachloride	ND		1.9	
563-58-6	1,1-Dichloropropene	ND		1.9	
71-43-2	Benzene	ND		1.9	
107-06-2	1,2-Dichloroethane	ND		0.93	
79-01-6	Trichloroethene	1.9		1.9	
78-87-5	1,2-Dichloropropane	ND		1.9	
74-95-3	Dibromomethane	ND		0.93	
75-27-4	Dichlorobromomethane	ND		0.93	
10061-01-5	cis-1,3-Dichloropropene	ND		0.93	
108-88-3	Toluene	ND		9.3	
10061-02-6	trans-1,3-Dichloropropene	ND		9.3	
79-00-5	1,1,2-Trichloroethane	ND		1.9	
127-18-4	Tetrachloroethene	ND		1.9	
142-28-9	1,3-Dichloropropane	ND		1.9	
124-48-1	Chlorodibromomethane	ND		1.4	
106-93-4	Ethylene Dibromide	ND		0.93	
108-90-7	Chlorobenzene	ND		1.9	
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.8	
100-41-4	Ethylbenzene	ND		1.9	
179601-23-1	m-Xylene & p-Xylene	ND		9.3	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-04A-14.0 Lab Sample ID: 580-96357-4  
 Matrix: Solid Lab File ID: 08072020\_022.D  
 Analysis Method: 8260D Date Collected: 07/28/2020 13:15  
 Sample wt/vol: 6.742(g) Date Analyzed: 08/07/2020 21:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 20.3 Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	ND		4.7	
100-42-5	Styrene	ND		2.8	
75-25-2	Bromoform	ND		4.7	
98-82-8	Isopropylbenzene	ND		1.9	
108-86-1	Bromobenzene	ND		9.3	
79-34-5	1,1,2,2-Tetrachloroethane	ND		3.7	
96-18-4	1,2,3-Trichloropropane	ND		4.7	
103-65-1	N-Propylbenzene	ND		4.7	
95-49-8	2-Chlorotoluene	ND		4.7	
106-43-4	4-Chlorotoluene	ND		4.7	
98-06-6	tert-Butylbenzene	ND		2.8	
95-63-6	1,2,4-Trimethylbenzene	ND		4.7	
135-98-8	sec-Butylbenzene	ND		2.8	
99-87-6	4-Isopropyltoluene	ND		1.9	
541-73-1	1,3-Dichlorobenzene	ND		4.7	
106-46-7	1,4-Dichlorobenzene	ND		4.7	
104-51-8	n-Butylbenzene	ND		2.8	
95-50-1	1,2-Dichlorobenzene	ND		9.3	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	*	9.3	
120-82-1	1,2,4-Trichlorobenzene	ND		1.9	
87-68-3	Hexachlorobutadiene	ND		2.8	
91-20-3	Naphthalene	ND	*	9.3	
87-61-6	1,2,3-Trichlorobenzene	ND		2.8	
108-67-8	1,3,5-Trimethylbenzene	ND		4.7	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-121
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_022.D  
 Lims ID: 580-96357-C-4-A  
 Client ID: AB-04A-14.0  
 Sample Type: Client  
 Inject. Date: 07-Aug-2020 21:32:30 ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 96357-4  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 10:29:35 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc

Date: 10-Aug-2020 10:29:35

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/L	Flags
23 Methylene Chloride	84	4.556	4.562	-0.006	49	2816	0.7222	M
* 18 TBA-d9 (IS)	65	4.653	4.647	0.006	0	57910	200.0	
37 cis-1,2-Dichloroethene	96	6.933	6.927	0.006	53	10088	3.10	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.732	0.006	58	30574	10.6	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	28354	10.7	
53 Benzene	78	8.208	8.195	0.013	1	455	0.0390	M
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	99	116627	10.0	
61 Trichloroethene	132	9.024	9.025	-0.001	84	7701	2.01	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	92	118123	9.40	
79 Tetrachloroethene	164	10.817	10.817	0.000	88	3426	0.8915	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	83	105404	10.0	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	95	50992	10.1	
99 1,2,4-Trimethylbenzene	105	13.200	13.194	0.006	0	976	0.5709	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	91	60482	10.0	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	1	166	0.0278	
112 Naphthalene	128	15.249	15.249	0.000	39	2831	0.2870	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	1	170	0.0321	

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_022.D

Injection Date: 07-Aug-2020 21:32:30

Instrument ID: TAC119

Lims ID: 580-96357-C-4-A

Lab Sample ID: 580-96357-4

Client ID: AB-04A-14.0

Operator ID: cjb

ALS Bottle#: 22

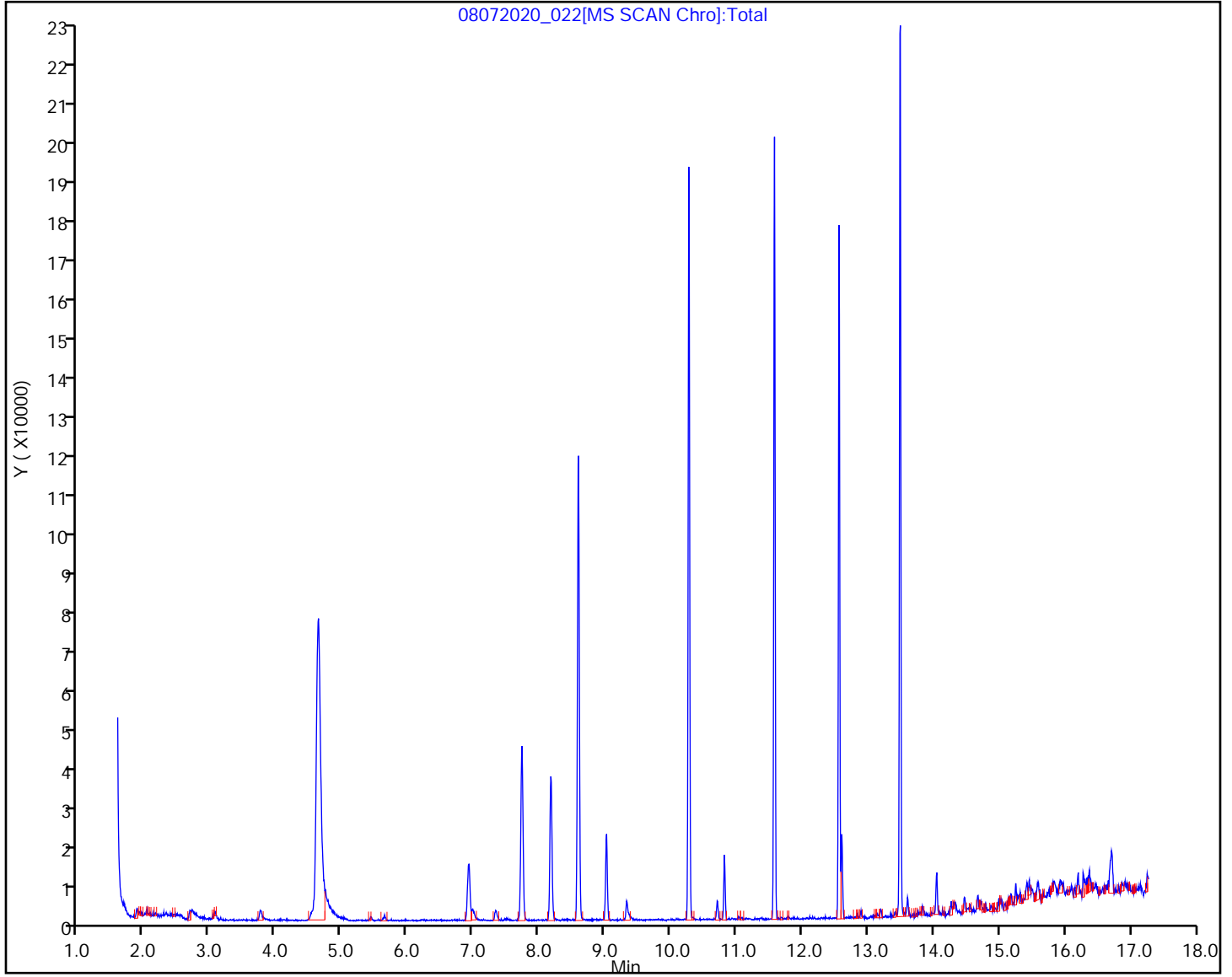
Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_022.D  
 Lims ID: 580-96357-C-4-A  
 Client ID: AB-04A-14.0  
 Sample Type: Client  
 Inject. Date: 07-Aug-2020 21:32:30 ALS Bottle#: 22 Worklist Smp#: 22  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 96357-4  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 10:29:35 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc Date: 10-Aug-2020 10:29:35

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	10.6	106.10
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	106.83
\$ 72 Toluene-d8 (Surr)	10.0	9.40	93.99
\$ 92 4-Bromofluorobenzene (Surr)	10.0	10.1	101.18
\$ 118 BFB	0.0	0	0.00



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_022.D

Injection Date: 07-Aug-2020 21:32:30

Instrument ID: TAC119

Lims ID: 580-96357-C-4-A

Lab Sample ID: 580-96357-4

Client ID: AB-04A-14.0

Operator ID: cjb

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

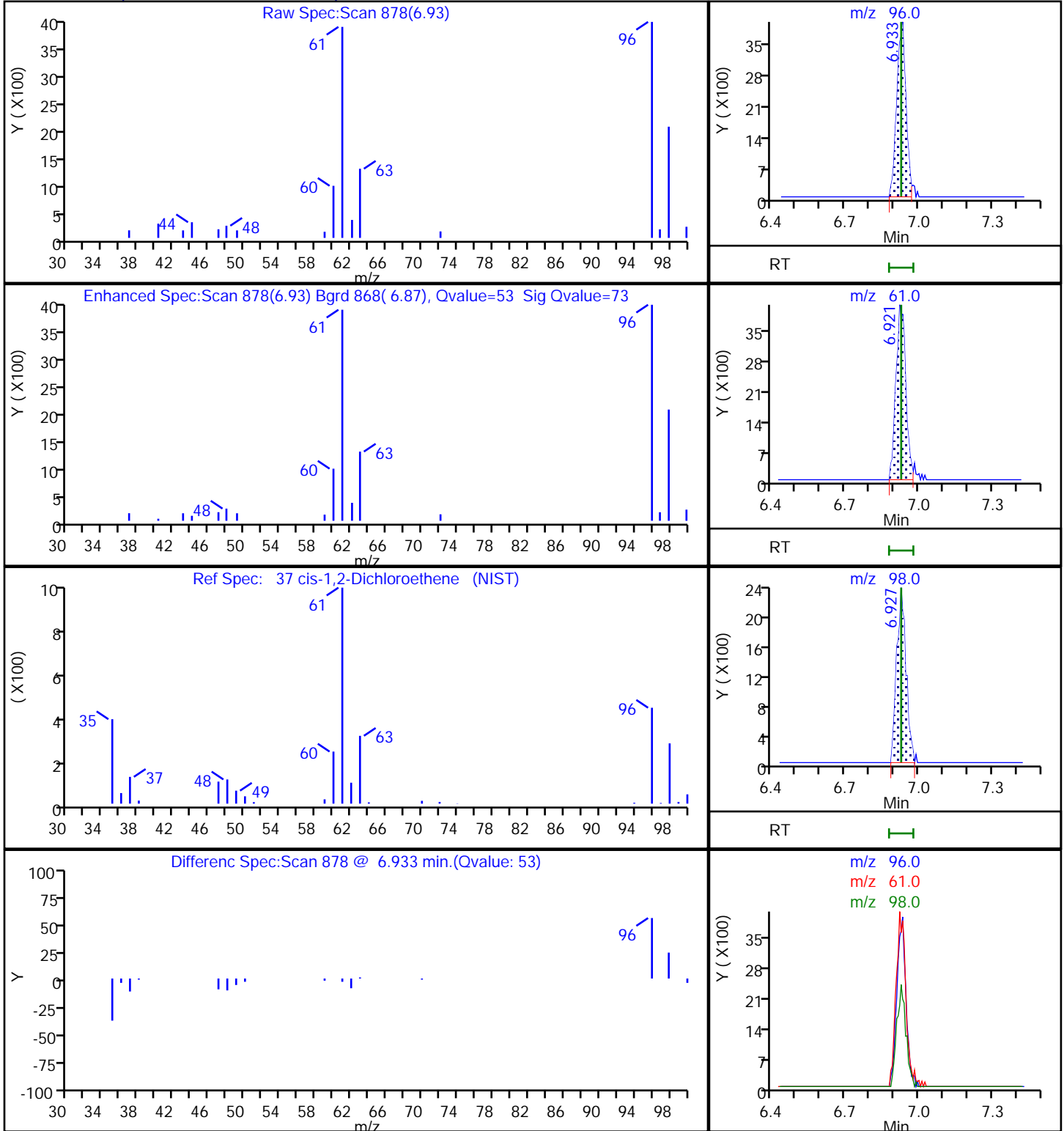
Method: DSS TAC119

Limit Group: 8260C

Column:

Detector MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_022.D

Injection Date: 07-Aug-2020 21:32:30

Instrument ID: TAC119

Lims ID: 580-96357-C-4-A

Lab Sample ID: 580-96357-4

Client ID: AB-04A-14.0

Operator ID: cjb

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

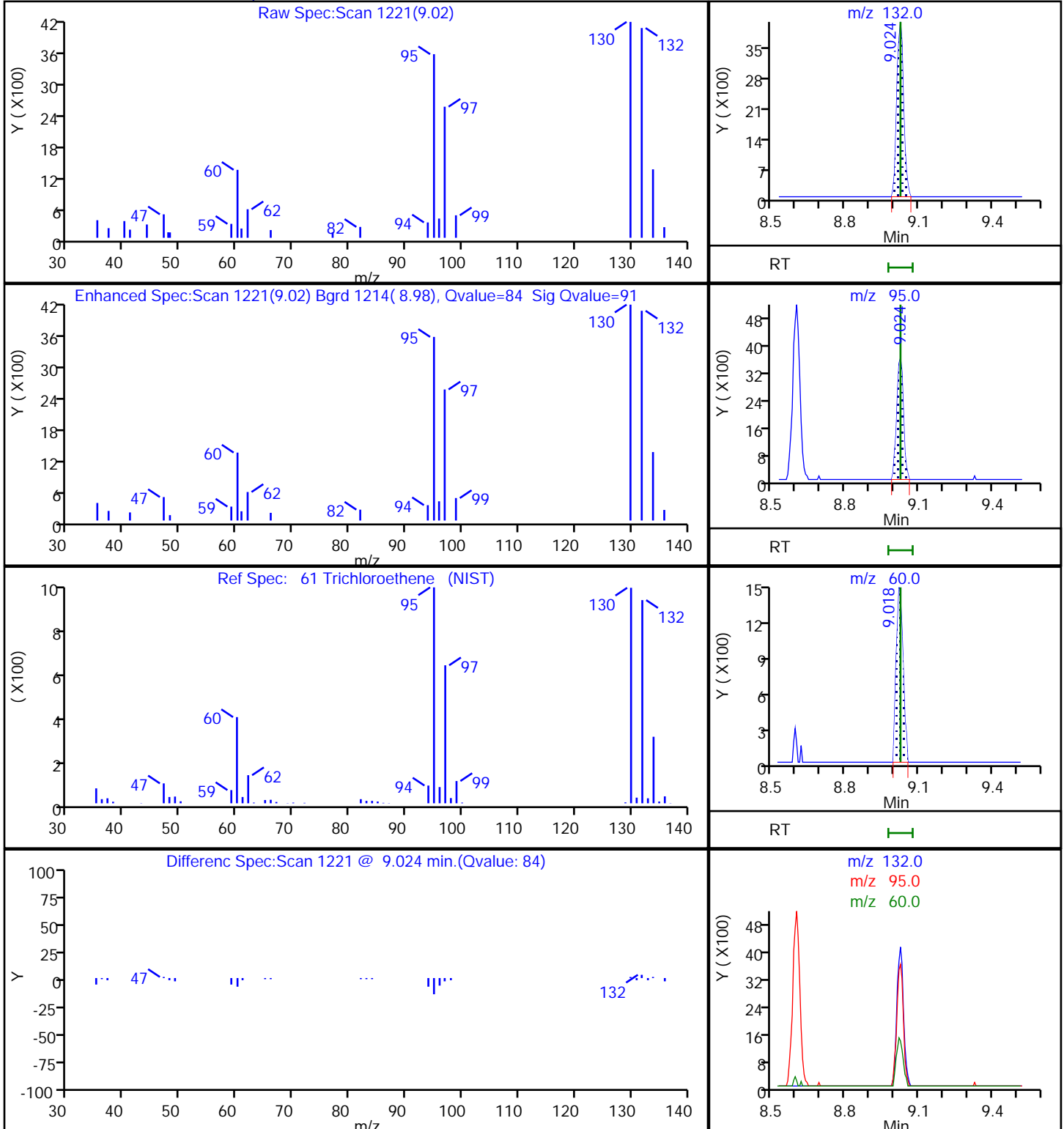
Method: DSS TAC119

Limit Group: 8260C

Column:

Detector MS SCAN

### 61 Trichloroethene, CAS: 79-01-6



Eurofins TestAmerica, Seattle

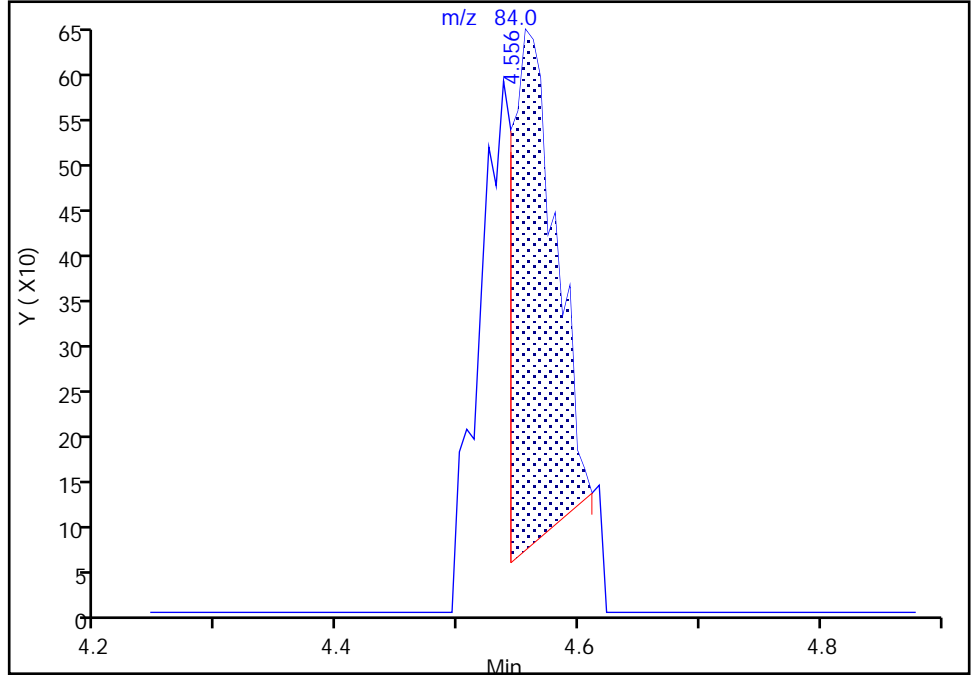
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_022.D  
Injection Date: 07-Aug-2020 21:32:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-4-A Lab Sample ID: 580-96357-4  
Client ID: AB-04A-14.0  
Operator ID: cjb ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

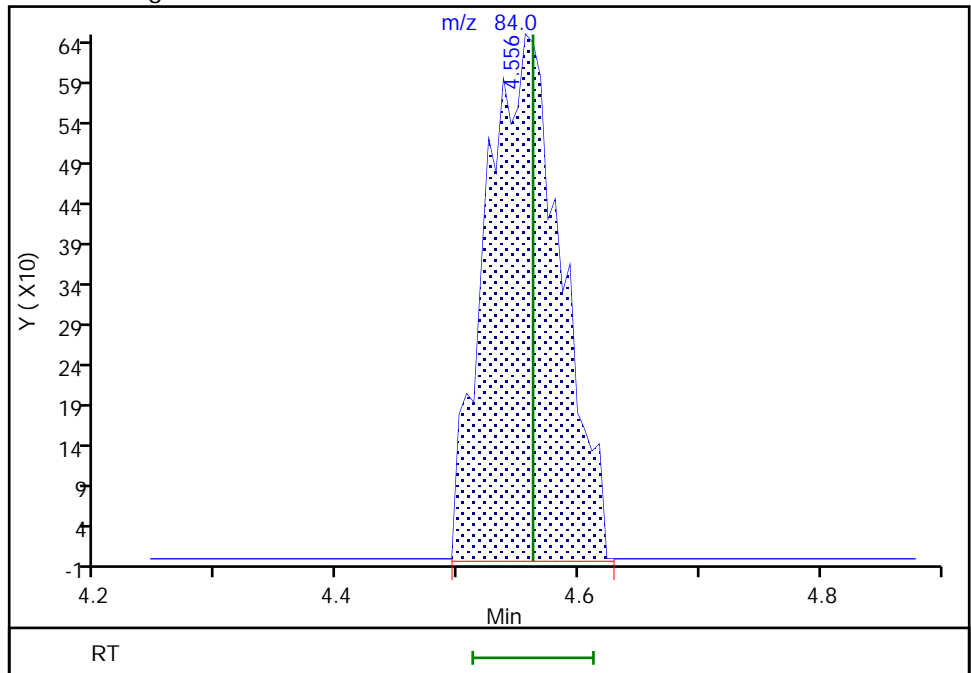
RT: 4.56  
Area: 1411  
Amount: 0.225672  
Amount Units: ug/L

Processing Integration Results



RT: 4.56  
Area: 2816  
Amount: 0.722207  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 10:28:47  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_022.D

Injection Date: 07-Aug-2020 21:32:30

Instrument ID: TAC119

Lims ID: 580-96357-C-4-A

Lab Sample ID: 580-96357-4

Client ID: AB-04A-14.0

Operator ID: cjb

ALS Bottle#: 22

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

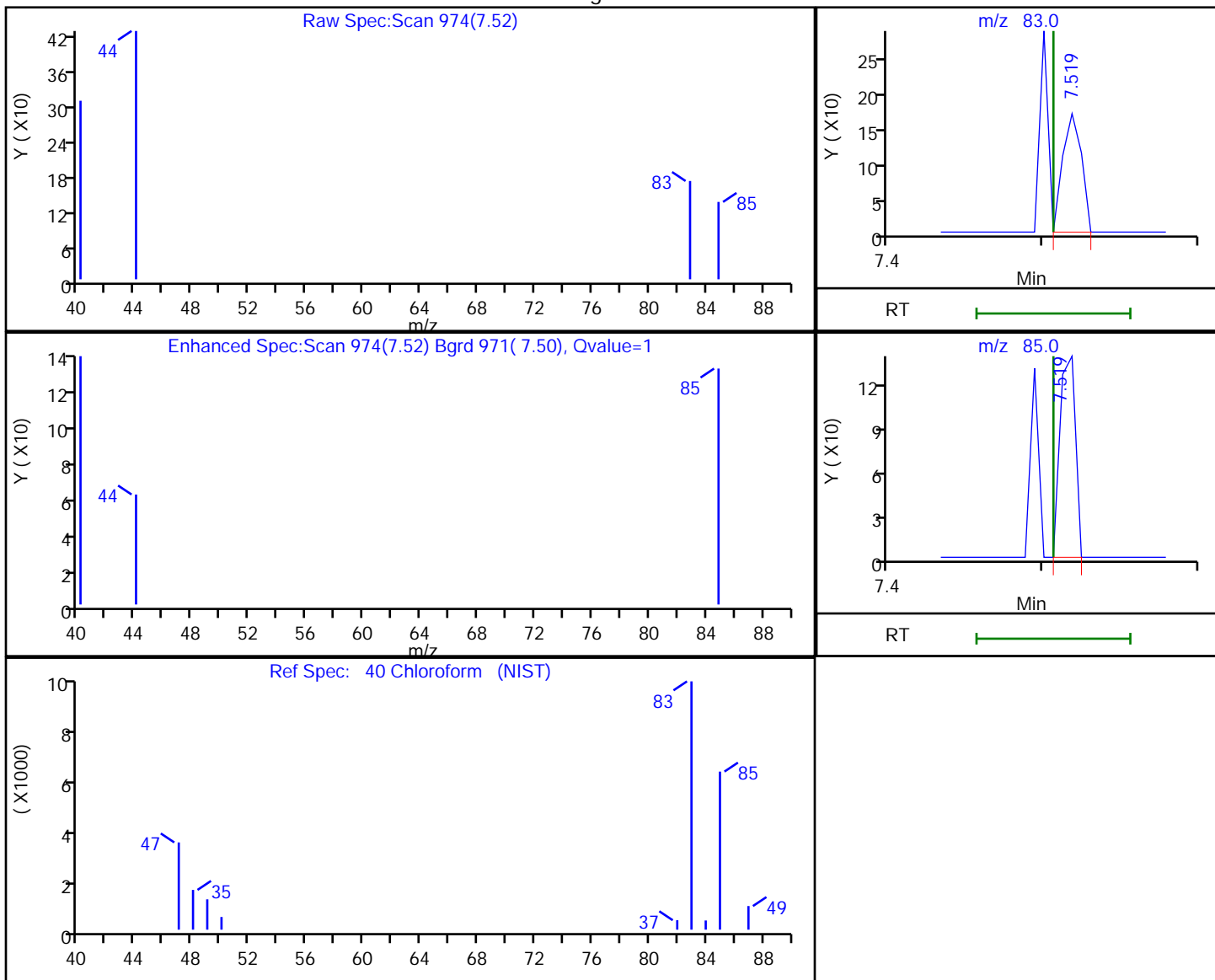
Limit Group: 8260C

Column:

Detector: MS SCAN

40 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
7.52	83.00	143	0.029202
7.52	85.00	93	

Reviewer: jantanuc, 10-Aug-2020 10:28:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

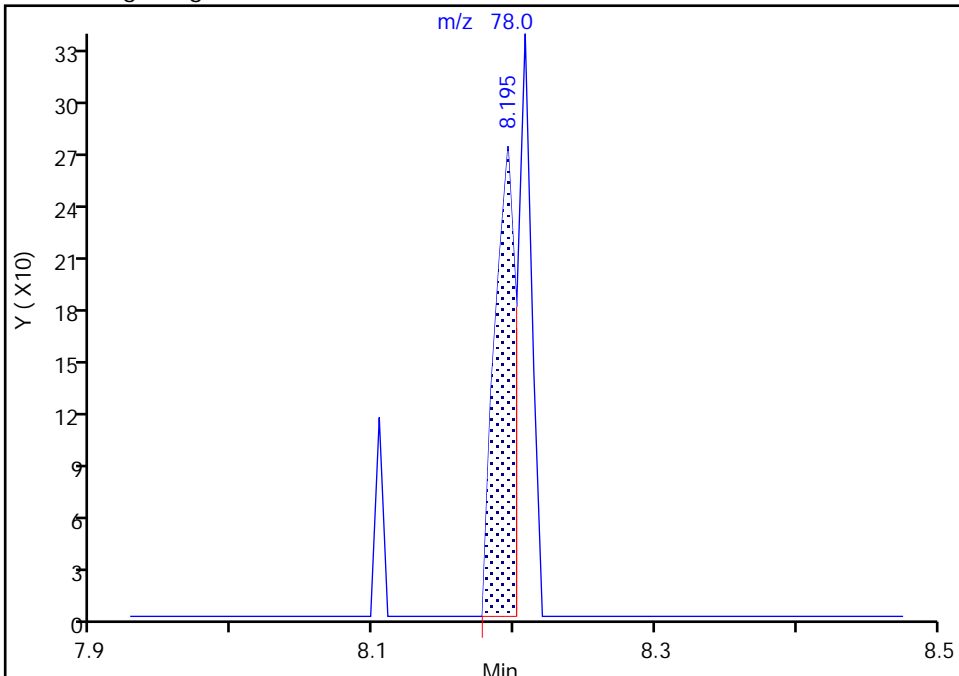
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_022.D  
Injection Date: 07-Aug-2020 21:32:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-4-A Lab Sample ID: 580-96357-4  
Client ID: AB-04A-14.0  
Operator ID: cjb ALS Bottle#: 22 Worklist Smp#: 22  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

53 Benzene, CAS: 71-43-2

Signal: 1

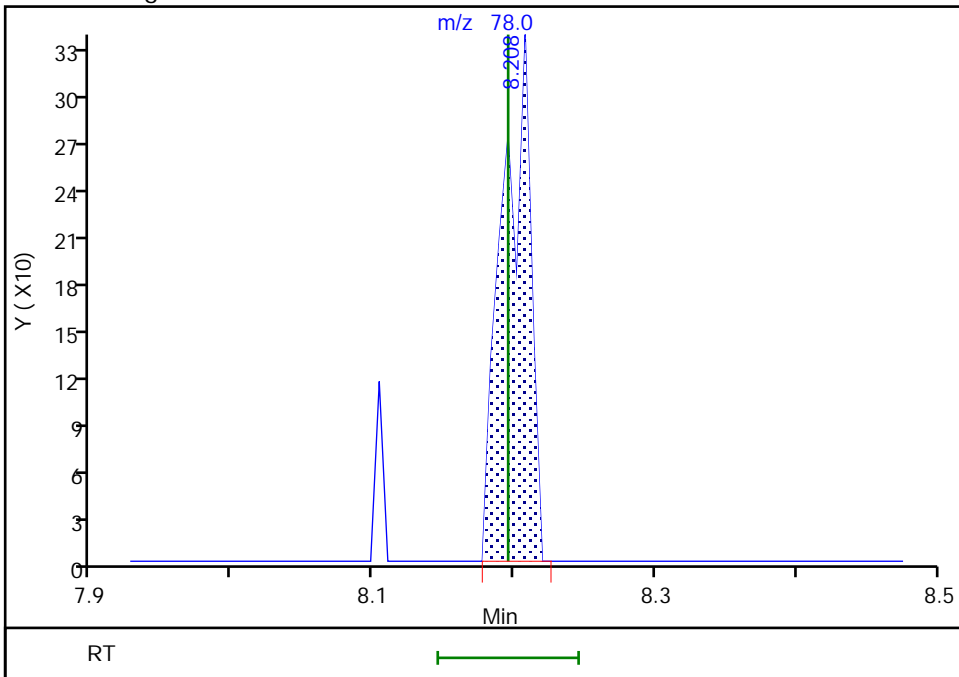
RT: 8.20  
Area: 283  
Amount: 0.024261  
Amount Units: ug/L

Processing Integration Results



RT: 8.21  
Area: 455  
Amount: 0.039007  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 10:29:03  
Audit Action: Manually Integrated

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Trip-Blank-01 Lab Sample ID: 580-96357-5  
 Matrix: Solid Lab File ID: 08072020\_011.D  
 Analysis Method: 8260D Date Collected: 07/28/2020 10:30  
 Sample wt/vol: 5(g) Date Analyzed: 08/07/2020 16:40  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	ND		2.0	
74-87-3	Chloromethane	ND		5.0	
75-01-4	Vinyl chloride	ND		2.0	
74-83-9	Bromomethane	ND		1.0	
75-00-3	Chloroethane	ND		10	
75-69-4	Trichlorofluoromethane	ND		2.0	
75-35-4	1,1-Dichloroethene	ND		5.0	
75-09-2	Methylene Chloride	ND		40	
1634-04-4	Methyl tert-butyl ether	ND		2.0	
156-60-5	trans-1,2-Dichloroethene	ND		2.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
594-20-7	2,2-Dichloropropane	ND		5.0	
156-59-2	cis-1,2-Dichloroethene	ND		3.0	
74-97-5	Chlorobromomethane	ND		2.0	
67-66-3	Chloroform	ND		2.0	
71-55-6	1,1,1-Trichloroethane	ND		2.0	
56-23-5	Carbon tetrachloride	ND		2.0	
563-58-6	1,1-Dichloropropene	ND		2.0	
71-43-2	Benzene	ND		2.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		2.0	
78-87-5	1,2-Dichloropropane	ND		2.0	
74-95-3	Dibromomethane	ND		1.0	
75-27-4	Dichlorobromomethane	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
108-88-3	Toluene	ND		10	
10061-02-6	trans-1,3-Dichloropropene	ND		10	
79-00-5	1,1,2-Trichloroethane	ND		2.0	
127-18-4	Tetrachloroethene	ND		2.0	
142-28-9	1,3-Dichloropropane	ND		2.0	
124-48-1	Chlorodibromomethane	ND		1.5	
106-93-4	Ethylene Dibromide	ND		1.0	
108-90-7	Chlorobenzene	ND		2.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND		3.0	
100-41-4	Ethylbenzene	ND		2.0	
179601-23-1	m-Xylene & p-Xylene	ND		10	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Trip-Blank-01 Lab Sample ID: 580-96357-5  
 Matrix: Solid Lab File ID: 08072020\_011.D  
 Analysis Method: 8260D Date Collected: 07/28/2020 10:30  
 Sample wt/vol: 5(g) Date Analyzed: 08/07/2020 16:40  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	ND		5.0	
100-42-5	Styrene	ND		3.0	
75-25-2	Bromoform	ND		5.0	
98-82-8	Isopropylbenzene	ND		2.0	
108-86-1	Bromobenzene	ND		10	
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	
96-18-4	1,2,3-Trichloropropane	ND		5.0	
103-65-1	N-Propylbenzene	ND		5.0	
95-49-8	2-Chlorotoluene	ND		5.0	
106-43-4	4-Chlorotoluene	ND		5.0	
98-06-6	tert-Butylbenzene	ND		3.0	
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	
135-98-8	sec-Butylbenzene	ND		3.0	
99-87-6	4-Isopropyltoluene	ND		2.0	
541-73-1	1,3-Dichlorobenzene	ND		5.0	
106-46-7	1,4-Dichlorobenzene	ND		5.0	
104-51-8	n-Butylbenzene	ND		3.0	
95-50-1	1,2-Dichlorobenzene	ND		10	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	*	10	
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	
87-68-3	Hexachlorobutadiene	ND		3.0	
91-20-3	Naphthalene	ND	*	10	
87-61-6	1,2,3-Trichlorobenzene	ND		3.0	
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-121
460-00-4	4-Bromofluorobenzene (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_011.D  
 Lims ID: 580-96357-C-5-A  
 Client ID: Trip-Blank-01  
 Sample Type: Client  
 Inject. Date: 07-Aug-2020 16:40:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 96357-5  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 10:19:17 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc

Date: 10-Aug-2020 10:19:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
23 Methylene Chloride	84	4.550	4.562	-0.012	49	3581	0.7273	M
* 18 TBA-d9 (IS)	65	4.653	4.647	0.006	0	68038	200.0	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.732	0.006	58	38409	10.5	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	35750	10.6	
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	99	147549	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	92	150530	9.50	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	79	132866	10.0	
83 Ethylbenzene	91	11.682	11.683	-0.001	1	355	0.0179	
84 m-Xylene & p-Xylene	91	11.786	11.792	-0.006	0	916	0.0621	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	94	66087	10.4	
97 1,3,5-Trimethylbenzene	105	12.889	12.896	-0.007	1	544	0.0333	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	36	3296	0.6679	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	91	77696	10.0	
111 1,2,4-Trichlorobenzene	180	15.041	15.042	-0.001	7	840	0.1097	
112 Naphthalene	128	15.249	15.249	0.000	61	6500	0.5130	
114 1,2,3-Trichlorobenzene	180	15.426	15.420	0.006	1	832	0.1223	

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_011.D

Injection Date: 07-Aug-2020 16:40:30

Instrument ID: TAC119

Lims ID: 580-96357-C-5-A

Lab Sample ID: 580-96357-5

Client ID: Trip-Blank-01

Operator ID: cjb

ALS Bottle#: 11

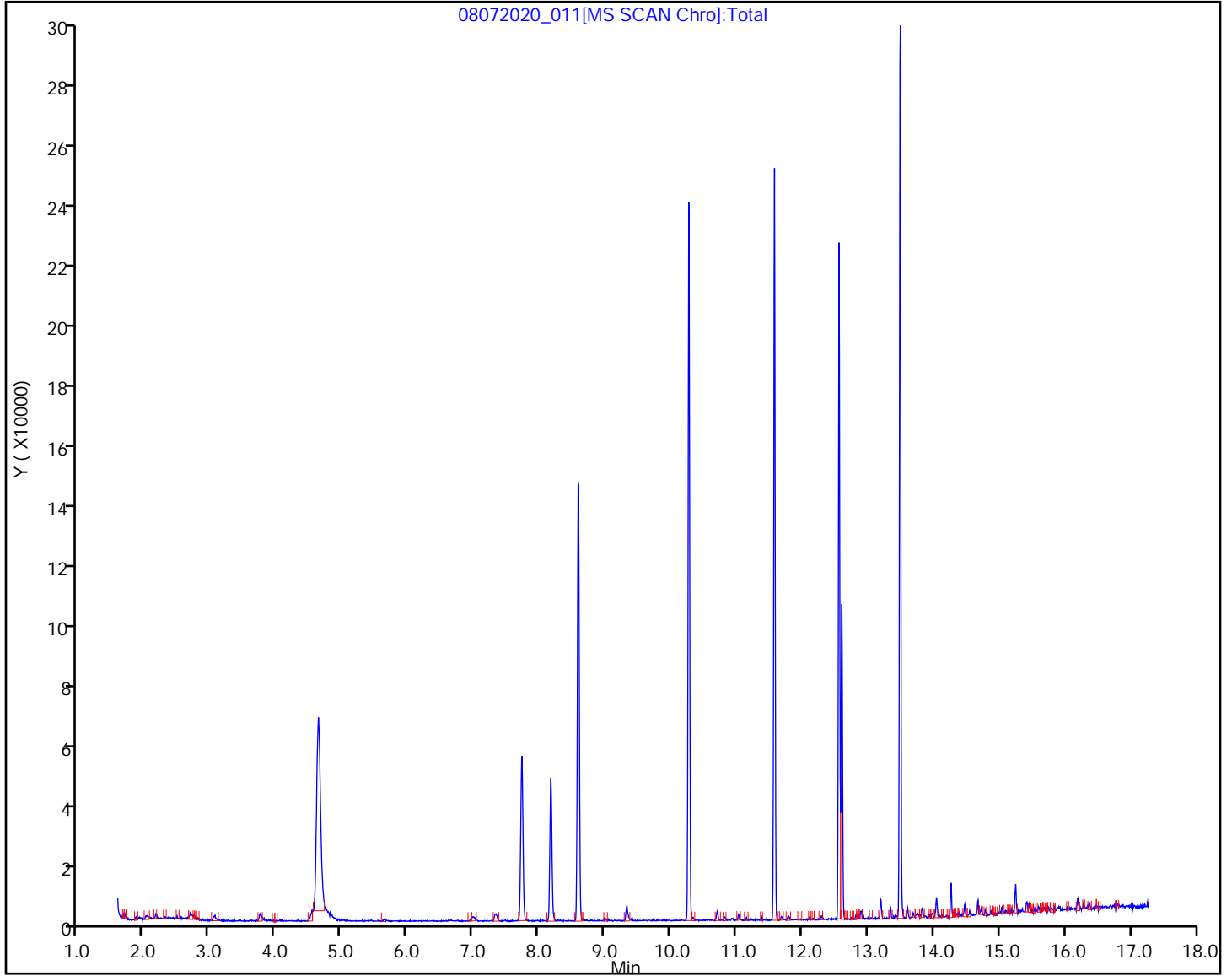
Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_011.D  
 Lims ID: 580-96357-C-5-A  
 Client ID: Trip-Blank-01  
 Sample Type: Client  
 Inject. Date: 07-Aug-2020 16:40:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 96357-5  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 10:19:17 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc Date: 10-Aug-2020 10:19:17

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	10.5	105.36
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.47
\$ 72 Toluene-d8 (Surr)	10.0	9.50	95.02
\$ 92 4-Bromofluorobenzene (Surr)	10.0	10.4	104.03
\$ 118 BFB	0.0	0	0.00

Eurofins TestAmerica, Seattle

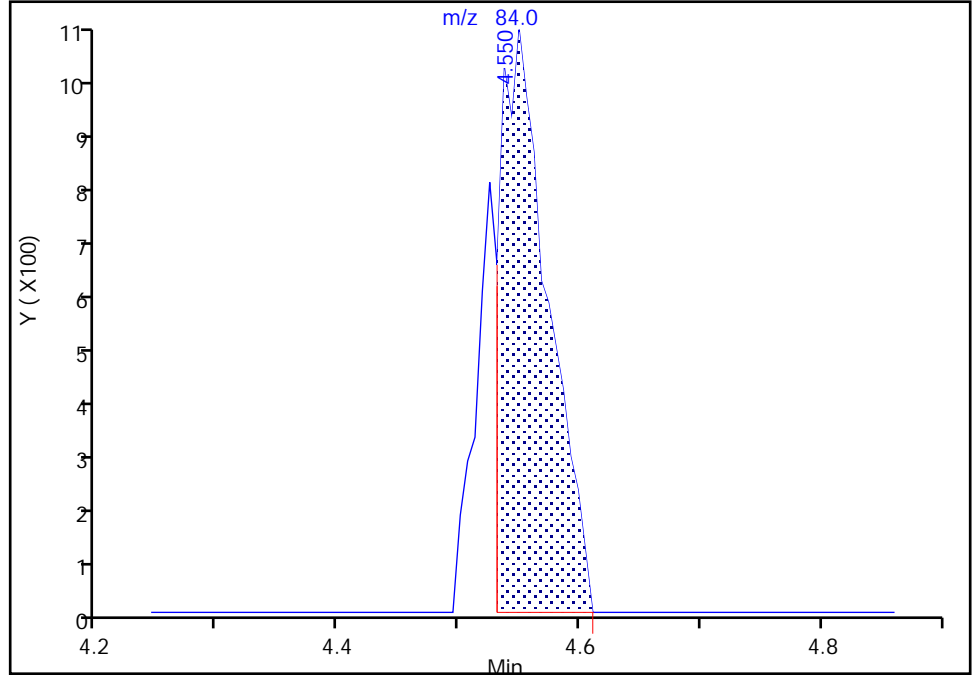
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_011.D  
Injection Date: 07-Aug-2020 16:40:30 Instrument ID: TAC119  
Lims ID: 580-96357-C-5-A Lab Sample ID: 580-96357-5  
Client ID: Trip-Blank-01  
Operator ID: cjb ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

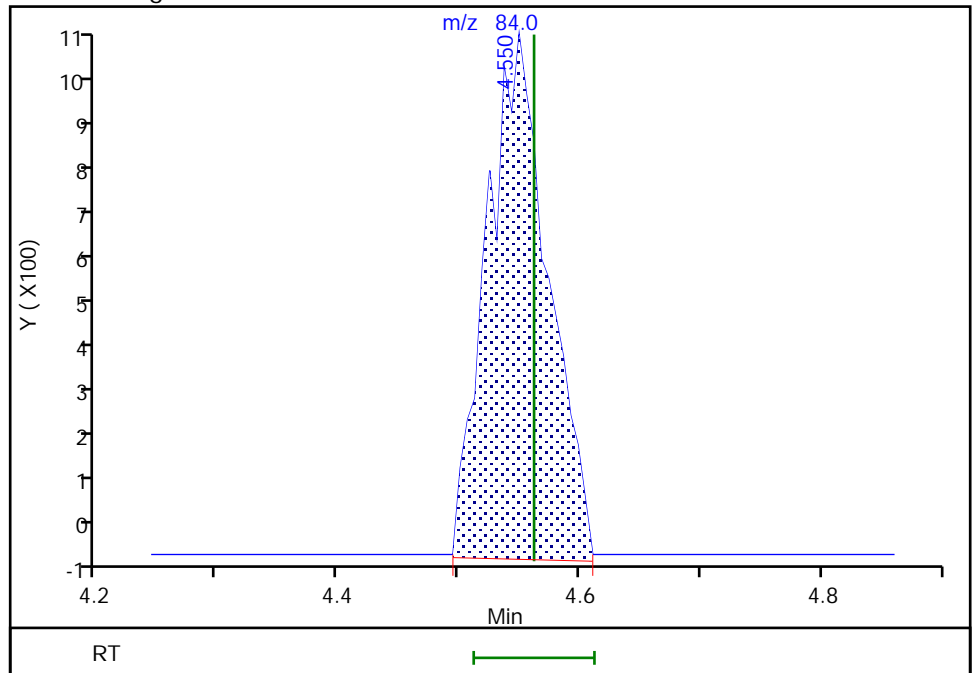
RT: 4.55  
Area: 2773  
Amount: 0.501471  
Amount Units: ug/L

Processing Integration Results



RT: 4.55  
Area: 3581  
Amount: 0.727347  
Amount Units: ug/L

Manual Integration Results



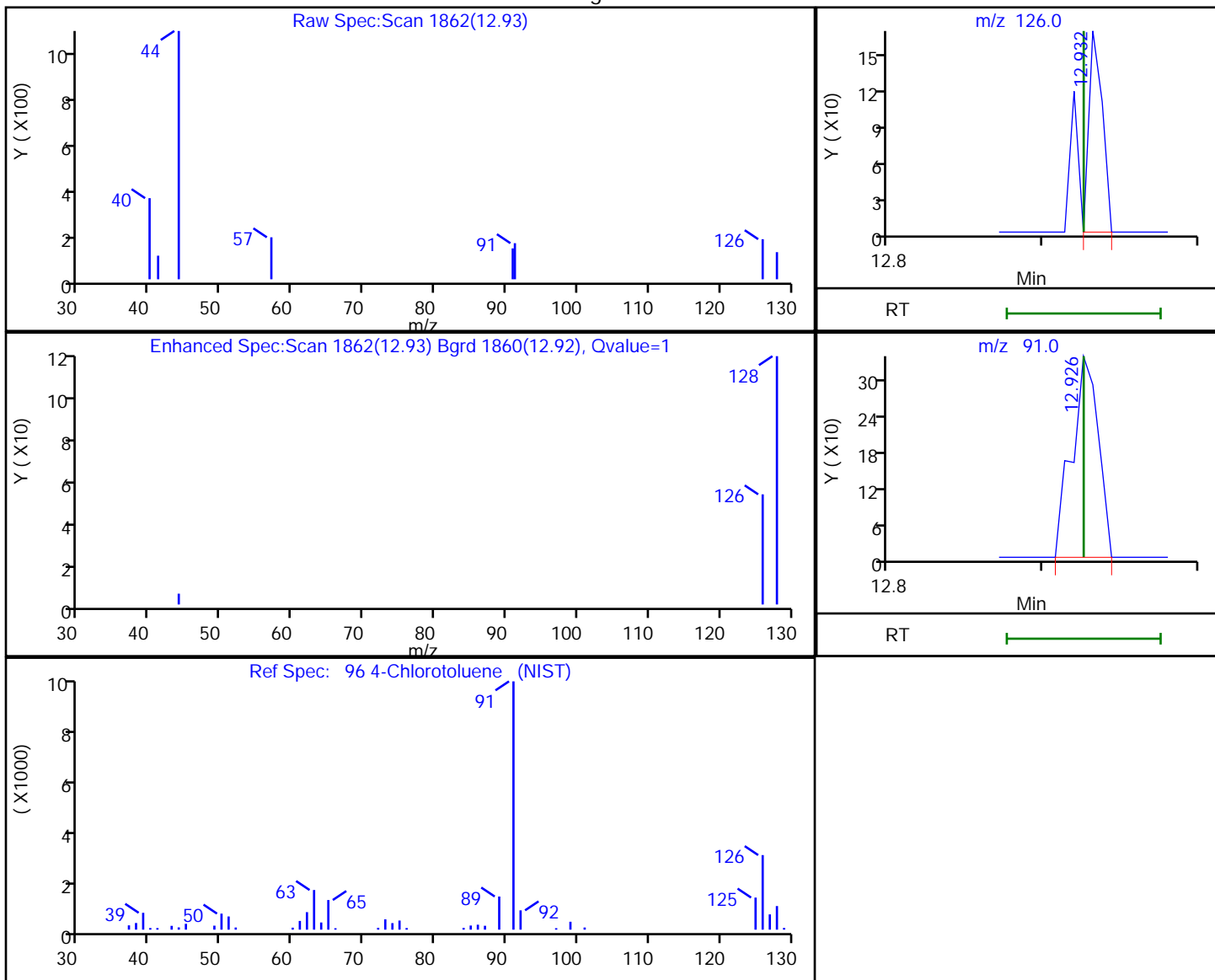
Reviewer: jantanuc, 10-Aug-2020 10:18:31  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_011.D  
 Injection Date: 07-Aug-2020 16:40:30 Instrument ID: TAC119  
 Lims ID: 580-96357-C-5-A Lab Sample ID: 580-96357-5  
 Client ID: Trip-Blank-01  
 Operator ID: cjb ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

96 4-Chlorotoluene, CAS: 106-43-4

Processing Results



RT	Mass	Response	Amount
12.93	126.00	102	0.018722
12.93	91.00	394	

Reviewer: jantanuc, 10-Aug-2020 10:18:57  
 Audit Action: Marked Compound Undetected

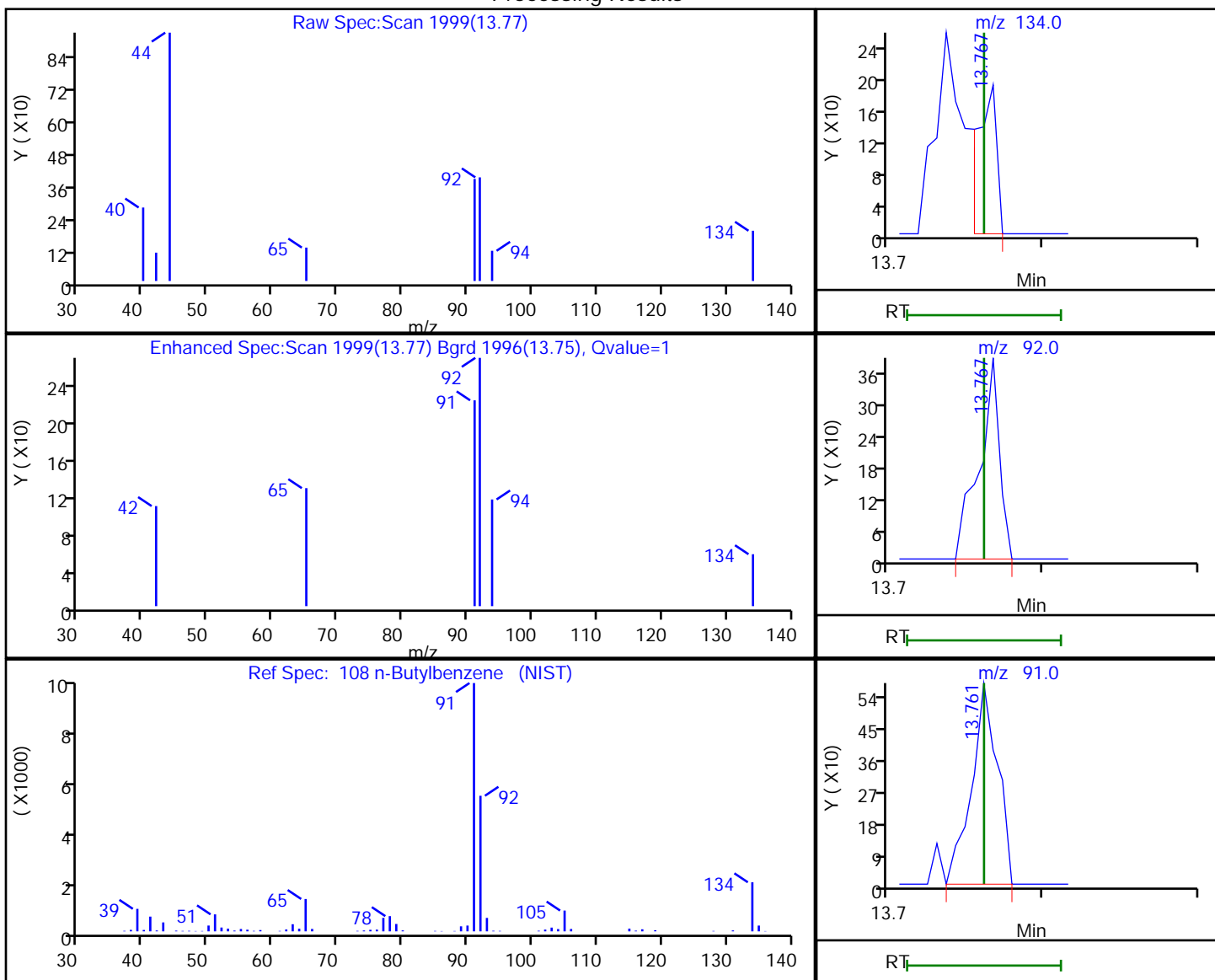
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_011.D  
 Injection Date: 07-Aug-2020 16:40:30 Instrument ID: TAC119  
 Lims ID: 580-96357-C-5-A Lab Sample ID: 580-96357-5  
 Client ID: Trip-Blank-01  
 Operator ID: cjb ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

108 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
13.77	134.00	166	0.031376
13.77	92.00	355	
13.76	91.00	673	

Reviewer: jantanuc, 10-Aug-2020 10:19:03  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-332974/3	07142020b_003.D
Level 2	IC 580-332974/4	07142020b_004.D
Level 3	IC 580-332974/5	07142020b_005.D
Level 4	IC 580-332974/6	07142020b_006.D
Level 5	IC 580-332974/7	07142020b_007.D
Level 6	ICIS 580-332974/8	07142020b_008.D
Level 7	IC 580-332974/9	07142020b_009.D
Level 8	IC 580-332974/10	07142020b_010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	0.1366	0.1027	0.1186	0.1081	0.0939	Ave		0.1150			0.1000	14.2		20.0			
	0.1357	0.1248	0.0998														
Chloromethane	0.2040	0.1740	0.1704	0.1697	0.1543	Ave		0.1725			0.1000	11.4		20.0			
	0.1932	0.1730	0.1415														
Vinyl chloride	0.1855	0.1823	0.1646	0.1698	0.1692	Ave		0.1809			0.1000	10.0		20.0			
	0.2180	0.1928	0.1653														
Butadiene	0.1181	0.1269	0.1351	0.1274	0.1242	Ave		0.1349				10.4		20.0			
	0.1534	0.1573	0.1368														
Bromomethane	0.1553	0.1592	0.1672	0.1698	0.1160	Ave		0.1535			0.1000	12.3		20.0			
	0.1702	0.1547	0.1359														
Chloroethane	0.0688	0.0749	0.1083	0.0934	0.0941	Qual	-0.021	0.1072	-0.000405		0.0600	13.2			0.9910		0.9900
	0.1150	0.0791	0.0677														
Dichlorofluoromethane	0.2954	0.3148	0.2983	0.3283	0.3109	Ave		0.3127				8.9		20.0			
	0.3652	0.3195	0.2690														
Trichlorofluoromethane	0.3387	0.2863	0.3123	0.3123	0.3145	Ave		0.3086			0.1000	8.6		20.0			
	0.3426	0.3012	0.2607														
3-Chloro-1-propene	+++++	+++++	0.0264	0.0267	0.0325	Qual	-0.023	0.0362	-0.000106			13.3			0.9920		0.9900
	0.0380	0.0280	0.0257														
Ethyl ether	0.1361	0.1290	0.1391	0.1569	0.1571	Ave		0.1497				12.6		20.0			
	0.1863	0.1583	0.1346														
Acrolein	0.0180	0.0215	0.0213	0.0286	0.0274	Lin1	-0.043	0.0298				11.1			0.9920		0.9900
	0.0338	0.0325	0.0277														
1,1-Dichloroethene	0.1913	0.1719	0.1940	0.1978	0.1708	Ave		0.1853			0.1000	8.4		20.0			
	0.2077	0.1865	0.1620														
Acetone	+++++	0.0740	0.0612	0.0636	0.0551	Ave		0.0590			0.0200	15.7		20.0			
	0.0619	0.0518	0.0453														
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2157	0.2129	0.2184	0.2217	0.2123	Ave		0.2146			0.1000	7.8		20.0			
	0.2442	0.2082	0.1836														

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, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Iodomethane	0.3669 0.4361	0.3492 0.3947	0.3900 0.3377	0.4092	0.3917	Ave		0.3844			8.3		20.0				
Carbon disulfide	0.6575 0.7077	0.5708 0.6155	0.5451 0.5332	0.5970	0.5649	Ave		0.5990		0.1000	9.9		20.0				
Isopropyl alcohol	++++ 0.3873	0.5494 0.4033	0.4211 0.3827	0.4157	0.4663	Ave		0.4323			13.6		20.0				
Acetonitrile	++++ 0.0065	++++ 0.0066	0.0029 0.0061	0.0063	0.0055	Lin1	-0.064	0.0064			11.7			0.9960		0.9900	
Methyl acetate	0.1532 0.1510	0.1263 0.1226	0.1369 0.1037	0.1423	0.1457	Ave		0.1352		0.1000	12.4		20.0				
Methylene Chloride	0.3662 0.2516	0.3351 0.2110	0.2625 0.1781	0.2437	0.2329	Qua2	0.0661	0.2432	-0.000644	0.1000	7.3			0.9940		0.9900	
2-Methyl-2-propanol	0.0151 0.0229	0.0211 0.0194	0.0210 0.0188	0.0189	0.0194	Ave		0.0196			11.6		20.0				
Acrylonitrile	0.0437 0.0689	0.0518 0.0613	0.0514 0.0527	0.0551	0.0571	Ave		0.0553			13.6		20.0				
trans-1,2-Dichloroethene	0.2624 0.2857	0.2072 0.2581	0.2524 0.2161	0.2590	0.2491	Ave		0.2487		0.1000	10.2		20.0				
Methyl tert-butyl ether	0.5604 0.7077	0.5181 0.6342	0.5499 0.5410	0.6042	0.6304	Ave		0.5932		0.1000	10.6		20.0				
Hexane	0.3141 0.3802	0.3200 0.3360	0.2971 0.2856	0.3065	0.3091	Ave		0.3186			9.1		20.0				
1,1-Dichloroethane	0.3524 0.4353	0.3691 0.3860	0.3457 0.3210	0.3811	0.3949	Ave		0.3732		0.2000	9.3		20.0				
Vinyl acetate	++++ 0.0531	++++ 0.0493	0.0321 0.0415	0.0383	0.0413	Qua1	-0.162	0.0565	-0.000056		13.0			0.9970		0.9900	
2-Chloro-1,3-butadiene	0.3035 0.3927	0.2709 0.3558	0.2923 0.3052	0.3286	0.3402	Ave		0.3236			12.0		20.0				
Isopropyl ether	0.5229 0.7009	0.4876 0.6313	0.5215 0.5333	0.5960	0.6234	Ave		0.5771			12.6		20.0				
Tert-butyl ethyl ether	0.2813 0.3479	0.2532 0.3211	0.2733 0.2722	0.3018	0.3049	Ave		0.2945			10.4		20.0				
2,2-Dichloropropane	0.3445 0.2722	0.2687 0.2743	0.2639 0.2282	0.2877	0.2618	Ave		0.2752			11.9		20.0				
cis-1,2-Dichloroethene	0.2716 0.3310	0.2460 0.2946	0.2744 0.2453	0.2885	0.2823	Ave		0.2792		0.1000	9.9		20.0				
2-Butanone (MEK)	++++ 0.0311	++++ 0.0282	0.0248 0.0240	0.0253	0.0263	Ave		0.0266		0.0200	9.9		20.0				
Propionitrile	0.0221 0.0288	0.0175 0.0257	0.0224 0.0218	0.0231	0.0238	Ave		0.0231			14.1		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, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Ethyl acetate	0.1318 0.1971	0.1405 0.1785	0.1597 0.1497	0.1629	0.1609	Ave		0.1601			13.0		20.0				
Methacrylonitrile	0.0761 0.1029	0.0674 0.0911	0.0750 0.0771	0.0830	0.0858	Ave		0.0823			13.4		20.0				
Chlorobromomethane	0.1917 0.2310	0.1725 0.2033	0.1865 0.1747	0.1977	0.2007	Ave		0.1948			9.5		20.0				
Chloroform	0.4185 0.5027	0.3800 0.4395	0.3853 0.3709	0.4264	0.4359	Ave		0.4199		0.2000	10.2		20.0				
1,1,1-Trichloroethane	0.3582 0.4352	0.3341 0.3948	0.3751 0.3355	0.3904	0.3798	Ave		0.3754		0.1000	8.9		20.0				
Cyclohexane	0.3338 0.4199	0.3329 0.3819	0.3464 0.3259	0.3704	0.3669	Ave		0.3598		0.1000	8.8		20.0				
Carbon tetrachloride	0.3337 0.4199	0.3300 0.3818	0.3477 0.3230	0.3784	0.3654	Ave		0.3600		0.1000	9.1		20.0				
1,1-Dichloropropene	0.3138 0.3866	0.3095 0.3484	0.3253 0.2943	0.3424	0.3375	Ave		0.3322			8.6		20.0				
Benzene	1.0122 1.1698	0.9249 1.0352	0.9549 0.8648	1.0207	1.0187	Ave		1.0002		0.5000	9.0		20.0				
Isobutyl alcohol	0.2795 0.3913	0.3006 0.3740	0.3019 0.3380	0.3215	0.3540	Ave		0.3326			11.7		20.0				
1,2-Dichloroethane	0.3051 0.3211	0.2461 0.2861	0.2705 0.2418	0.3020	0.2803	Ave		0.2816		0.1000	10.0		20.0				
Tert-amyl methyl ether	0.5059 0.7256	0.4917 0.6615	0.5352 0.5710	0.6276	0.6333	Ave		0.5940			13.8		20.0				
Tetrahydrofuran	0.0362 0.0488	0.0360 0.0433	0.0389 0.0362	0.0427	0.0398	Ave		0.0402			11.2		20.0				
n-Heptane	0.2982 0.3610	0.2995 0.3269	0.2833 0.2771	0.3055	0.3056	Ave		0.3071			8.6		20.0				
Trichloroethene	0.3441 0.3771	0.3116 0.3319	0.3192 0.2857	0.3278	0.3268	Ave		0.3280		0.2000	8.0		20.0				
Ethyl acrylate	0.1986 0.2693	0.1766 0.2503	0.1928 0.2196	0.2063	0.2217	Ave		0.2169			14.1		20.0				
n-Butanol	0.0039 0.0045	0.0031 0.0040	0.0039 0.0034	0.0039	0.0040	Ave		0.0039			10.7		20.0				
Methylcyclohexane	0.4672 0.5425	0.4116 0.4879	0.4258 0.4168	0.4609	0.4605	Ave		0.4591		0.1000	9.4		20.0				
1,2-Dichloropropane	0.2283 0.2504	0.1908 0.2279	0.2103 0.1927	0.2220	0.2161	Ave		0.2173		0.1000	9.1		20.0				
Dibromomethane	0.2284 0.2426	0.1851 0.2247	0.2125 0.1880	0.2121	0.2150	Ave		0.2136			9.1		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, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Methyl methacrylate	0.1178 0.1774	0.1071 0.1637	0.1319 0.1410	0.1405	0.1436	Ave		0.1404			16.2		20.0				
Dichlorobromomethane	0.3040 0.3713	0.2940 0.3300	0.2921 0.2853	0.3116	0.3196	Ave		0.3135		0.2000	8.8		20.0				
2-Nitropropane	0.0632 0.0653	0.0478 0.0623	0.0496 0.0547	0.0481	0.0535	Ave		0.0555			12.8		20.0				
2-Chloroethyl vinyl ether	0.0458 0.1382	0.0893 0.1110	0.0933 0.1067	0.1030	0.1272	Lin1	-0.023	0.1128			14.5			0.9910		0.9900	
cis-1,3-Dichloropropene	0.3776 0.5209	0.3490 0.4639	0.3591 0.3989	0.4218	0.4425	Ave		0.4167		0.2000	13.9		20.0				
4-Methyl-2-pentanone (MIBK)	++++ 0.1094	++++ 0.0960	0.0738 0.0822	0.0868	0.0898	Ave		0.0897		0.0600	13.6		20.0				
Toluene	1.4009 1.6174	1.2787 1.4036	1.3351 1.1773	1.4400	1.4304	Ave		1.3854		0.4000	9.3		20.0				
n-Butyl acetate	0.0302 0.0337	0.0352 0.0288	0.0278 0.0246	0.0322	0.0294	Ave		0.0303			11.2		20.0				
trans-1,3-Dichloropropene	0.3343 0.4619	0.3105 0.4156	0.3397 0.3557	0.3876	0.3822	Ave		0.3734		0.1000	13.1		20.0				
Ethyl methacrylate	0.2115 0.3395	0.2132 0.3338	0.2099 0.2879	0.2621	0.2836	Ave		0.2677			19.8		20.0				
1,1,2-Trichloroethane	0.2579 0.2922	0.2429 0.2542	0.2513 0.2197	0.2558	0.2605	Ave		0.2543		0.1000	7.9		20.0				
Tetrachloroethene	0.6005 0.7611	0.5837 0.6411	0.6281 0.5635	0.6671	0.6380	Ave		0.6354		0.2000	9.6		20.0				
1,3-Dichloropropene	0.3578 0.4754	0.3363 0.4069	0.3787 0.3468	0.3991	0.4055	Ave		0.3883			11.4		20.0				
2-Hexanone	++++ 0.1084	++++ 0.0961	0.0715 0.0837	0.0808	0.0892	Ave		0.0883		0.0600	14.6		20.0				
Chlorodibromomethane	0.2873 0.3761	0.2450 0.3455	0.2890 0.2949	0.3323	0.3250	Ave		0.3119		0.1000	13.1		20.0				
Ethylene Dibromide	0.2445 0.2959	0.2166 0.2694	0.2403 0.2270	0.2591	0.2555	Ave		0.2510		0.1000	9.9		20.0				
Chlorobenzene	0.9329 1.0981	0.8628 0.9648	0.8749 0.8096	0.9665	0.9750	Ave		0.9356		0.5000	9.4		20.0				
1,1,1,2-Tetrachloroethane	0.3132 0.3943	0.3027 0.3617	0.3136 0.3063	0.3491	0.3409	Ave		0.3352			9.6		20.0				
Ethylbenzene	1.4457 1.7614	1.3533 1.5658	1.4135 1.3025	1.5327	1.5610	Ave		1.4920		0.1000	9.7		20.0				
m-Xylene & p-Xylene	1.0107 1.3310	1.0148 1.1877	1.0038 1.0012	1.1541	1.1815	Ave		1.1106		0.1000	11.0		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, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
o-Xylene	0.9696 1.3398	0.9258 1.1926	0.9929 1.0020	1.1406	1.1729	Ave		1.0920		0.3000	13.0		20.0				
Styrene	0.7926 1.0960	0.8082 1.0119	0.8127 0.8540	0.9285	0.9583	Ave		0.9078		0.3000	12.1		20.0				
Bromoform	0.2301 0.2793	0.1984 0.2609	0.2219 0.2234	0.2298	0.2358	Ave		0.2350		0.1000	10.6		20.0				
Isopropylbenzene	1.3050 1.7843	1.2576 1.5933	1.3557 1.3177	1.5414	1.5988	Ave		1.4692		0.1000	12.7		20.0				
1,1,2,2-Tetrachloroethane	0.5133 0.6158	0.4514 0.5334	0.4926 0.4590	0.5102	0.4975	Ave		0.5092		0.3000	10.0		20.0				
Bromobenzene	0.7420 0.9529	0.7609 0.8189	0.7294 0.6999	0.8075	0.7970	Ave		0.7885			9.9		20.0				
trans-1,4-Dichloro-2-butene	0.1627 0.1570	0.1069 0.1411	0.1313 0.1268	0.1342	0.1321	Ave		0.1365			12.8		20.0				
1,2,3-Trichloropropane	0.1871 0.2159	0.1797 0.1813	0.1719 0.1580	0.1994	0.1888	Ave		0.1853			9.4		20.0				
N-Propylbenzene	2.6876 3.6869	2.5299 3.1639	2.7283 2.6407	3.1315	3.0866	Ave		2.9569			13.0		20.0				
2-Chlorotoluene	0.6497 0.8177	0.6115 0.7095	0.6874 0.6046	0.7232	0.7148	Ave		0.6898			10.0		20.0				
1,3,5-Trimethylbenzene	1.8043 2.6768	1.7555 2.2714	1.9445 1.9186	2.2110	2.2251	Ave		2.1009			14.5		20.0				
4-Chlorotoluene	0.6501 0.8377	0.6549 0.7392	0.6616 0.6274	0.7153	0.7234	Ave		0.7012			9.7		20.0				
tert-Butylbenzene	1.7647 2.4781	1.6591 2.0994	1.8009 1.7962	2.0629	2.0995	Ave		1.9701			13.5		20.0				
1,2,4-Trimethylbenzene	++++ 2.6715	1.6723 2.3057	1.9027 1.9350	2.2099	2.2807	Qual	-1.388	2.7179	-0.007651		9.5			0.9980		0.9900	
sec-Butylbenzene	2.3994 3.5708	2.4836 3.0355	2.6303 2.5278	3.0720	3.0695	Ave		2.8486			14.2		20.0				
1,3-Dichlorobenzene	1.4839 1.7538	1.3627 1.5060	1.3715 1.2821	1.5092	1.4966	Ave		1.4707		0.6000	9.6		20.0				
4-Isopropyltoluene	++++ 3.1259	2.0272 2.6927	2.2674 2.2737	2.6517	2.7363	Ave		2.5393			14.6		20.0				
1,4-Dichlorobenzene	1.5044 1.7630	1.3767 1.4847	1.4005 1.2575	1.5429	1.5117	Ave		1.4802		0.5000	10.0		20.0				
1,2,3-Trimethylbenzene	1.8947 2.6463	1.8031 2.2545	1.9497 1.9048	2.2188	2.2804	Ave		2.1190			13.3		20.0				
Benzyl chloride	0.2050 0.2970	0.2003 0.2570	0.2048 0.2302	0.2207	0.2300	Ave		0.2306			14.1		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, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
n-Butylbenzene	0.6663 0.8373	0.5639 0.7235	0.6315 0.6206	0.6853	0.7192	Ave		0.6810			12.1		20.0				
1,2-Dichlorobenzene	1.3858 1.6329	1.2022 1.3829	1.3451 1.1835	1.4021	1.3865	Ave		1.3651		0.4000	10.1		20.0				
1,2-Dibromo-3-Chloropropane	0.1422 0.1508	0.1232 0.1321	0.1285 0.1221	0.1220	0.1253	Ave		0.1308		0.0500	8.1		20.0				
1,3,5-Trichlorobenzene	1.2811 1.3854	1.1459 1.2085	1.1415 1.0275	1.2107	1.2547	Ave		1.2069			8.8		20.0				
1,2,4-Trichlorobenzene	1.1612 1.0953	0.9391 0.9734	0.8785 0.8652	0.9540	1.0189	Ave		0.9857		0.2000	10.4		20.0				
Hexachlorobutadiene	++++ 0.7889	0.7470 0.6890	0.7216 0.5999	0.7076	0.6930	Ave		0.7067			8.3		20.0				
Naphthalene	++++ 1.8836	1.7252 1.6998	1.4005 1.5863	1.4163	1.7037	Ave		1.6308			10.7		20.0				
1,2,3-Trichlorobenzene	++++ 0.9939	0.8991 0.8772	0.8347 0.8003	0.8081	0.9182	Ave		0.8759			7.8		20.0				
Dibromofluoromethane (Surr)	0.2514 0.2406	0.2474 0.2508	0.2500 0.2517	0.2420	0.2447	Ave		0.2471			1.7		20.0				
1,2-Dichloroethane-d4 (Surr)	0.2333 0.2302	0.2235 0.2295	0.2317 0.2255	0.2235	0.2199	Ave		0.2276			2.0		20.0				
Toluene-d8 (Surr)	1.1864 1.2189	1.1787 1.1970	1.1754 1.1678	1.2113	1.2077	Ave		1.1923			1.5		20.0				
4-Bromofluorobenzene (Surr)	0.4771 0.4772	0.4668 0.4877	0.4723 0.4844	0.4756	0.4834	Ave		0.4781			1.3		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, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-332974/3	07142020b_003.D
Level 2	IC 580-332974/4	07142020b_004.D
Level 3	IC 580-332974/5	07142020b_005.D
Level 4	IC 580-332974/6	07142020b_006.D
Level 5	IC 580-332974/7	07142020b_007.D
Level 6	ICIS 580-332974/8	07142020b_008.D
Level 7	IC 580-332974/9	07142020b_009.D
Level 8	IC 580-332974/10	07142020b_010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Dichlorodifluoromethane	FB	Ave	1440 47856	2199 132499	4819 236227	10704	19480	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	2151 68124	3726 183738	6924 334822	16799	32029	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	1956 76892	3903 204767	6689 391061	16814	35123	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	1245 54084	2716 167090	5490 323627	12613	25781	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	1638 60028	3408 164320	6795 321468	16809	24078	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	DCBd 4	Qual	343 18715	764 41146	2060 75983	4359	9411	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	3115 128771	6739 339251	12125 636524	32509	64520	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	3571 120819	6129 319861	12693 616948	30919	65273	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
3-Chloro-1-propene	CBNZ d5	Qual	++++ 11201	++++ 25467	906 51441	2182	5571	++++ 20.0	++++ 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	1435 65690	2762 168052	5652 318572	15530	32604	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Lin1	1138 71550	2759 206911	5187 392683	16986	34153	3.00 120	6.00 300	12.0 600	30.0	60.0
1,1-Dichloroethene	FB	Ave	2017 73249	3681 198082	7885 383322	19588	35448	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	++++ 109058	7923 274955	12436 536437	31475	57200	++++ 100	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2274 86114	4559 221097	8877 434365	21952	44062	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Iodomethane	FB	Ave	3869 153788	7476 419150	15850 799171	40518	81288	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-96357-1

Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119

GC Column: 624SIL-MS ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42

Calibration End Date: 07/14/2020 18:47

Calibration ID: 29429

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
Carbon disulfide	FB	Ave	6933 249563	12220 653590	22157 1261593	59110	117241	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Isopropyl alcohol	TBAd 9	Ave	++++ 29384	2366 86290	3727 196189	7655	18191	++++ 200	10.0 500	20.0 1000	50.0	100
Acetonitrile	FB	Lin1	++++ 28629	++++ 88081	1454 180794	7767	14171	++++ 250	++++ 625	25.0 1250	62.5	125
Methyl acetate	FB	Ave	3230 106471	5406 260395	11128 490524	28176	60454	1.00 40.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Qua2	3861 88732	7174 224096	10668 421529	24127	48325	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	1594 80690	4528 206123	8531 444955	18760	40343	5.00 200	10.0 500	20.0 1000	50.0	100
Acrylonitrile	FB	Ave	4607 243077	11092 650779	20879 1247186	54540	118599	5.00 200	10.0 500	20.0 1000	50.0	100
trans-1,2-Dichloroethene	FB	Ave	2767 100739	4437 274101	10257 511338	25645	51691	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Methyl tert-butyl ether	FB	Ave	5909 249566	11093 673465	22350 1280217	59819	130829	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Hexane	FB	Ave	3312 134059	6852 356833	12077 675839	30346	64152	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	3716 153512	7903 409870	14053 759631	37736	81945	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Qual	++++ 46843	++++ 130831	3260 245564	9483	21435	++++ 50.0	++++ 125	5.00 250	12.5	25.0
2-Chloro-1,3-butadiene	FB	Ave	3200 138467	5799 377798	11880 722158	32533	70606	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Isopropyl ether	FB	Ave	6892 308976	13048 837949	26496 1577288	73758	161714	0.625 25.0	1.25 62.5	2.50 125	6.25	12.5
Tert-butyl ethyl ether	FB	Ave	3707 153361	6775 426175	13888 805179	37352	79103	0.625 25.0	1.25 62.5	2.50 125	6.25	12.5
2,2-Dichloropropane	FB	Ave	3633 95998	5753 291304	10728 540007	28484	54333	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	2864 116732	5267 312871	11152 580459	28560	58580	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	++++ 54865	++++ 149640	5030 283655	12538	27281	++++ 100	++++ 250	10.0 500	25.0	50.0
Propionitrile	FB	Ave	2909 126769	4675 341381	11391 643441	28640	61664	6.25 250	12.5 625	25.0 1250	62.5	125
Ethyl acetate	FB	Ave	2779 139004	6015 379176	12984 708272	32262	66769	1.00 40.0	2.00 100	4.00 200	10.0	20.0
Methacrylonitrile	FB	Ave	8028 362868	14432 967833	30469 1824185	82183	178044	5.00 200	10.0 500	20.0 1000	50.0	100

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

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
Chlorobromomethane	FB	Ave	2021 81467	3694 215863	7580 413272	19571	41649	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Chloroform	FB	Ave	4413 177274	8135 466713	15659 877599	42214	90458	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	3777 153489	7152 419269	15245 793964	38657	78809	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	3520 148087	7128 405507	14079 771175	36671	76132	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	3519 148093	7065 405434	14134 764186	37466	75836	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	3309 136349	6626 369933	13222 696497	33905	70033	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	10673 412523	19802 1099329	38812 2046398	101062	211412	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	TBAd 9	Ave	1649 74234	3236 200023	6680 433238	14800	34522	12.5 500	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	3217 113229	5270 303797	10993 572151	29905	58173	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Tert-amyl methyl ether	FB	Ave	6668 319868	13159 878118	27193 1688835	77675	164278	0.625 25.0	1.25 62.5	2.50 125	6.25	12.5
Tetrahydrofuran	FB	Ave	764 34399	1543 92043	3164 171108	8465	16515	1.00 40.0	2.00 100	4.00 200	10.0	20.0
n-Heptane	FB	Ave	3144 127300	6412 347154	11516 655701	30252	63427	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	3628 132973	6671 352466	12975 676093	32453	67820	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl acrylate	FB	Ave	2094 94984	3782 265793	7836 519577	20430	46008	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
n-Butanol	FB	Ave	1019 39855	1680 106226	3957 203151	9674	21007	12.5 500	25.0 1250	50.0 2500	125	250
Methylcyclohexane	FB	Ave	4926 191324	8813 518081	17305 986270	45635	95558	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	2407 88302	4085 242068	8546 456003	21982	44856	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2408 85566	3963 238607	8638 444922	21004	44627	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Methyl methacrylate	FB	Ave	2484 125126	4587 347625	10721 667287	27814	59621	1.00 40.0	2.00 100	4.00 200	10.0	20.0
Dichlorobromomethane	FB	Ave	3206 130931	6295 350479	11871 675198	30854	66325	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
2-Nitropropane	FB	Ave	1332 46055	2045 132321	4031 258651	9523	22185	1.00 40.0	2.00 100	4.00 200	10.0	20.0

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

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
2-Chloroethyl vinyl ether	CBNZ d5	Lin1	408 40758	1615 100831	3204 213328	8428	21833	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	3363 153648	6312 421213	12331 797389	34519	75916	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	++++ 161318	++++ 435664	12665 821549	35514	77075	++++ 100	++++ 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	12475 477074	23124 1274492	45846 2353231	117843	245430	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
n-Butyl acetate	CBNZ d5	Ave	269 9953	636 26123	956 49250	2636	5050	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	2977 136254	5615 377359	11665 711101	31722	65575	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	1883 100129	3855 303101	7209 575524	21445	48665	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	2297 86196	4393 230793	8628 439107	20933	44692	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	DCBd 4	Ave	2994 123820	5957 333652	11944 632039	31141	63801	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	3186 140232	6081 369448	13003 693267	32657	69579	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	++++ 159897	++++ 436219	12275 836901	33041	76522	++++ 100	++++ 250	10.0 500	25.0	50.0
Chlorodibromomethane	CBNZ d5	Ave	2558 110928	4431 313713	9925 589566	27195	55768	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Ethylene Dibromide	CBNZ d5	Ave	2177 87273	3917 244612	8253 453704	21205	43839	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	8308 323887	15603 876096	30044 1618274	79094	167287	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	2789 116306	5474 328404	10770 612314	28568	58490	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	12874 519545	24474 1421734	48539 2603520	125427	267833	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	9000 392606	18352 1078411	34469 2001355	94447	202714	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	8634 395204	16743 1082927	34095 2002903	93341	201249	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	7058 323285	14616 918824	27908 1706979	75985	164425	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2049 82375	3588 236945	7620 446479	18809	40466	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	CBNZ d5	Ave	11621 526298	22743 1446729	46554 2633865	126135	274316	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-96357-1

Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119

GC Column: 624SIL-MS ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42

Calibration End Date: 07/14/2020 18:47

Calibration ID: 29429

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
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	2559 100181	4607 277629	9368 514764	23818	49750	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	3699 155019	7765 426192	13870 785004	37693	79693	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	811 25548	1091 73423	2497 142255	6265	13214	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	933 35130	1834 94349	3269 177194	9310	18881	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	13399 599780	25818 1646610	51881 2961810	146180	308640	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	3239 133019	6240 369250	13072 678144	33760	71479	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	8995 435454	17915 1182143	36976 2151879	103208	222498	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	3241 136283	6683 384729	12581 703624	33392	72333	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	8798 403131	16931 1092621	34245 2014548	96294	209942	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Qual	++++ 434601	17066 1200006	36181 2170237	103157	228058	++++ 20.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	11962 580904	25346 1579786	50017 2835104	143401	306938	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	7398 285307	13907 783771	26081 1437992	70449	149657	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	++++ 508522	20688 1401402	43116 2550144	123781	273619	++++ 20.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	7500 286811	14050 772698	26632 1410348	72021	151165	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	9446 430498	18401 1173347	37075 2136437	103572	228031	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
Benzyl chloride	DCBd 4	Ave	1022 48324	2044 133738	3894 258161	10303	22999	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	3322 136208	5755 376548	12009 696029	31990	71912	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	6909 265645	12269 719702	25578 1327412	65449	138641	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	709 24525	1257 68732	2443 136903	5693	12531	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	6387 225371	11694 628941	21706 1152393	56517	125459	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	5789 178181	9584 506596	16706 970347	44533	101880	0.500 20.0	1.00 50.0	2.00 100	5.00	10.0



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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Hexachlorobutadiene	DCBd 4	Ave	++++ 128341	7623 358612	13721 672784	33031	69295	++++ 20.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	++++ 306419	17606 884636	26632 1779166	66115	170360	++++ 20.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	++++ 161680	9176 456560	15873 897590	37724	91815	++++ 20.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	53026 42426	52975 53261	50807 59549	47917	50772	10.0 10.0	10.0 10.0	10.0 10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	49203 40586	47857 48733	47086 53365	44264	45636	10.0 10.0	10.0 10.0	10.0 10.0	10.0	10.0
Toluene-d8 (Surr)	CBNZ d5	Ave	211300 179768	213160 217375	201809 233427	198256	207217	10.0 10.0	10.0 10.0	10.0 10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	84973 70375	84417 88568	81094 96824	77833	82943	10.0 10.0	10.0 10.0	10.0 10.0	10.0	10.0

Curve Type Legend:

<p>Ave = Average ISTD Lin1 = Linear 1/conc ISTD Qual = Quadratic 1/conc ISTD Qua2 = Quadratic 1/conc^2 ISTD</p>
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FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-332974/3	07142020b_003.D
Level 2	IC 580-332974/4	07142020b_004.D
Level 3	IC 580-332974/5	07142020b_005.D
Level 4	IC 580-332974/6	07142020b_006.D
Level 5	IC 580-332974/7	07142020b_007.D
Level 6	ICIS 580-332974/8	07142020b_008.D
Level 7	IC 580-332974/9	07142020b_009.D
Level 8	IC 580-332974/10	07142020b_010.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Dichlorodifluoromethane	18.7						50					
Chloromethane	18.3						50					
Vinyl chloride	2.5						50					
Butadiene	-12.5						50					
Bromomethane	1.2						50					
Chloroethane	2.8						30					
Dichlorofluoromethane	-5.5						50					
Trichlorofluoromethane	9.8						50					
3-Chloro-1-propene	+++++	+++++	5.0						30			
Ethyl ether	-9.1						50					
Acrolein	8.0						30					
1,1-Dichloroethene	3.3						50					
Acetone	+++++	25.5						50				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5						50					
Iodomethane	-4.6						50					

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Carbon disulfide	9.8						50					
Isopropyl alcohol	+++++	27.1						50				
Acetonitrile	+++++	+++++	-15.1						30			
Methyl acetate	13.3						50					
Methylene Chloride	-3.7						30					
2-Methyl-2-propanol	-22.8						50					
Acrylonitrile	-20.9						50					
trans-1,2-Dichloroethene	5.5						50					
Methyl tert-butyl ether	-5.5						50					
Hexane	-1.4						50					
1,1-Dichloroethane	-5.6						50					
Vinyl acetate	+++++	+++++	14.8						30			
2-Chloro-1,3-butadiene	-6.2						50					
Isopropyl ether	-9.4						50					
Tert-butyl ethyl ether	-4.5						50					
2,2-Dichloropropane	25.2						50					
cis-1,2-Dichloroethene	-2.7						50					
2-Butanone (MEK)	+++++	+++++	-7.0						50			
Propionitrile	-4.6						50					
Ethyl acetate	-17.7						50					
Methacrylonitrile	-7.5						50					

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Chlorobromomethane	-1.6						50					
Chloroform	-0.3						50					
1,1,1-Trichloroethane	-4.6						50					
Cyclohexane	-7.2						50					
Carbon tetrachloride	-7.3						50					
1,1-Dichloropropene	-5.5						50					
Benzene	1.2						50					
Isobutyl alcohol	-16.0						50					
1,2-Dichloroethane	8.3						50					
Tert-amyl methyl ether	-14.8						50					
Tetrahydrofuran	-10.0						50					
n-Heptane	-2.9						50					
Trichloroethene	4.9						50					
Ethyl acrylate	-8.4						50					
n-Butanol	0.4						50					
Methylcyclohexane	1.7						50					
1,2-Dichloropropane	5.0						50					
Dibromomethane	6.9						50					
Methyl methacrylate	-16.1						50					
Dichlorobromomethane	-3.0						50					
2-Nitropropane	13.7						50					

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
2-Chloroethyl vinyl ether	-19.4						30					
cis-1,3-Dichloropropene	-9.4						50					
4-Methyl-2-pentanone (MIBK)	+++++	+++++	-17.7						50			
Toluene	1.1						50					
n-Butyl acetate	-0.1						50					
trans-1,3-Dichloropropene	-10.5						50					
Ethyl methacrylate	-21.0						50					
1,1,2-Trichloroethane	1.4						50					
Tetrachloroethene	-5.5						50					
1,3-Dichloropropane	-7.9						50					
2-Hexanone	+++++	+++++	-19.0						50			
Chlorodibromomethane	-7.9						50					
Ethylene Dibromide	-2.6						50					
Chlorobenzene	-0.3						50					
1,1,1,2-Tetrachloroethane	-6.6						50					
Ethylbenzene	-3.1						50					
m-Xylene & p-Xylene	-9.0						50					
o-Xylene	-11.2						50					
Styrene	-12.7						50					
Bromoform	-2.1						50					
Isopropylbenzene	-11.2						50					

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
1,1,2,2-Tetrachloroethane	0.8						50					
Bromobenzene	-5.9						50					
trans-1,4-Dichloro-2-butene	19.2						50					
1,2,3-Trichloropropane	1.0						50					
N-Propylbenzene	-9.1						50					
2-Chlorotoluene	-5.8						50					
1,3,5-Trimethylbenzene	-14.1						50					
4-Chlorotoluene	-7.3						50					
tert-Butylbenzene	-10.4						50					
1,2,4-Trimethylbenzene	++++	12.9						30				
sec-Butylbenzene	-15.8						50					
1,3-Dichlorobenzene	0.9						50					
4-Isopropyltoluene	++++	-20.2						50				
1,4-Dichlorobenzene	1.6						50					
1,2,3-Trimethylbenzene	-10.6						50					
Benzyl chloride	-11.1						50					
n-Butylbenzene	-2.1						50					
1,2-Dichlorobenzene	1.5						50					
1,2-Dibromo-3-Chloropropane	8.8						50					
1,3,5-Trichlorobenzene	6.2						50					
1,2,4-Trichlorobenzene	17.8						50					

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1 Analy Batch No.: 332974

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/14/2020 15:42 Calibration End Date: 07/14/2020 18:47 Calibration ID: 29429

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #					LVL 7	LVL 8				
Hexachlorobutadiene	+++++	5.7						50				
Naphthalene	+++++	5.8						50				
1,2,3-Trichlorobenzene	+++++	2.6						50				
Dibromofluoromethane (Surr)	1.8						50					
1,2-Dichloroethane-d4 (Surr)	2.5						50					
Toluene-d8 (Surr)	-0.5						50					
4-Bromofluorobenzene (Surr)	-0.2						50					

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 14-Jul-2020 15:42:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 0.05  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3

Method: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Jul-2020 10:14:50 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1065

First Level Reviewer: bohnc Date: 14-Jul-2020 16:14:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.727	1.727	0.000	2	1440	0.5000	0.5937	M
4 Chloromethane	50	1.953	1.953	0.000	58	2151	0.5000	0.5913	
5 Vinyl chloride	62	2.075	2.075	0.000	34	1956	0.5000	0.5126	M
6 Butadiene	54	2.117	2.117	0.000	66	1245	0.5000	0.4377	M
7 Bromomethane	94	2.477	2.477	0.000	36	1638	0.5000	0.5059	M
8 Chloroethane	66	2.599	2.599	0.000	5	343	0.5000	0.5139	M
10 Dichlorofluoromethane	67	2.922	2.922	0.000	37	3115	0.5000	0.4724	M
14 Trichlorofluoromethane	101	2.940	2.940	0.000	39	3571	0.5000	0.5488	M
11 3-Chloro-1-propene	76	2.983	2.983	0.000	1	47	0.5000	0.7032	
17 Ethyl ether	59	3.349	3.349	0.000	51	1435	0.5000	0.4547	
12 Acrolein	56	3.526	3.526	0.000	23	1138	3.00	3.24	M
19 1,1-Dichloroethene	96	3.702	3.702	0.000	2	2017	0.5000	0.5163	M
16 Acetone	43	3.751	3.751	0.000	66	4236	2.50	3.41	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.763	3.763	0.000	1	2274	0.5000	0.5024	M
22 Iodomethane	142	3.910	3.910	0.000	68	3869	0.5000	0.4772	M
26 Carbon disulfide	76	4.026	4.026	0.000	56	6933	0.5000	0.5489	M
15 Isopropyl alcohol	45	4.044	4.044	0.000	46	1507	5.00	7.39	M
S 2 Xylenes, Total	100				0			0.8989	
24 Methyl acetate	43	4.324	4.324	0.000	70	3230	1.00	1.13	
23 Methylene Chloride	84	4.544	4.544	0.000	43	3861	0.5000	0.4815	M
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	94398	200.0	200.0	
20 2-Methyl-2-propanol	59	4.824	4.824	0.000	51	1594	5.00	3.86	M
21 Acrylonitrile	53	4.989	4.989	0.000	81	4607	5.00	3.95	M
27 trans-1,2-Dichloroethene	96	5.080	5.080	0.000	28	2767	0.5000	0.5275	M
28 Methyl tert-butyl ether	73	5.074	5.074	0.000	76	5909	0.5000	0.4723	M
34 Hexane	57	5.641	5.641	0.000	78	3312	0.5000	0.4930	M
30 1,1-Dichloroethane	63	5.897	5.897	0.000	36	3716	0.5000	0.4722	
31 Vinyl acetate	86	5.989	5.989	0.000	82	847	1.25	3.59	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	50	3200	0.5000	0.4689	
35 Isopropyl ether	45	6.056	6.056	0.000	55	6892	0.6250	0.5663	M
41 Tert-butyl ethyl ether	87	6.690	6.690	0.000	79	3707	0.6250	0.5970	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.903	6.903	0.000	37	3633	0.5000	0.6260	M
33 2-Butanone (MEK)	72	6.940	6.934	0.006	74	1072	2.50	1.91	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	46	2864	0.5000	0.4864	
29 Propionitrile	54	7.025	7.025	0.000	34	2909	6.25	5.96	M
38 Ethyl acetate	43	7.055	7.055	0.000	73	2779	1.00	0.8229	
36 Methacrylonitrile	67	7.257	7.257	0.000	76	8028	5.00	4.63	
39 Chlorobromomethane	130	7.299	7.299	0.000	33	2021	0.5000	0.4921	
40 Chloroform	83	7.507	7.507	0.000	57	4413	0.5000	0.4984	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	7	3777	0.5000	0.4771	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	59	53026	10.0	10.2	
51 Cyclohexane	84	7.793	7.793	0.000	63	3520	0.5000	0.4640	
52 Carbon tetrachloride	117	7.927	7.927	0.000	59	3519	0.5000	0.4635	M
50 1,1-Dichloropropene	75	7.946	7.946	0.000	58	3309	0.5000	0.4723	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	49203	10.0	10.3	
53 Benzene	78	8.195	8.195	0.000	85	10673	0.5000	0.5060	
42 Isobutyl alcohol	43	8.214	8.214	0.000	30	1649	12.5	10.5	M
47 1,2-Dichloroethane	62	8.269	8.269	0.000	55	3217	0.5000	0.5417	M
54 Tert-amyl methyl ether	73	8.421	8.421	0.000	86	6668	0.6250	0.5323	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	100	210887	10.0	10.0	
56 n-Heptane	43	8.628	8.628	0.000	37	3144	0.5000	0.4854	
45 Tetrahydrofuran	42	8.628	8.628	0.000	1	764	1.00	0.9001	
61 Trichloroethene	132	9.018	9.018	0.000	65	3628	0.5000	0.5245	
57 Ethyl acrylate	55	9.159	9.159	0.000	55	2094	0.5000	0.4578	
49 n-Butanol	56	9.268	9.268	0.000	29	1019	12.5	12.5	M
66 Methylcyclohexane	83	9.268	9.268	0.000	70	4926	0.5000	0.5087	
60 1,2-Dichloropropane	63	9.299	9.299	0.000	45	2407	0.5000	0.5252	
59 Dibromomethane	174	9.396	9.396	0.000	33	2408	0.5000	0.5347	M
63 Methyl methacrylate	69	9.390	9.390	0.000	61	2484	1.00	0.8391	M
62 Dichlorobromomethane	83	9.585	9.585	0.000	68	3206	0.5000	0.4849	
58 2-Nitropropane	43	9.805	9.805	0.000	57	1332	1.00	1.14	
65 2-Chloroethyl vinyl ether	63	9.884	9.884	0.000	13	408	0.5000	0.4030	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	61	3363	0.5000	0.4531	
68 4-Methyl-2-pentanone (MIBK)	58	10.177	10.177	0.000	75	3376	2.50	2.11	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	92	211300	10.0	9.95	
74 Toluene	91	10.341	10.341	0.000	92	12475	0.5000	0.5056	
70 n-Butyl acetate	43	10.476	10.476	0.000	1	269	0.5000	0.4993	a
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	56	2977	0.5000	0.4476	
73 Ethyl methacrylate	69	10.622	10.622	0.000	52	1883	0.5000	0.3950	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	54	2297	0.5000	0.5071	
79 Tetrachloroethene	164	10.811	10.811	0.000	88	2994	0.5000	0.4726	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	63	3186	0.5000	0.4607	
76 2-Hexanone	58	10.933	10.933	0.000	84	3207	2.50	2.04	
77 Chlorodibromomethane	129	11.079	11.079	0.000	49	2558	0.5000	0.4605	
78 Ethylene Dibromide	107	11.171	11.171	0.000	66	2177	0.5000	0.4869	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	80	178102	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	94	8308	0.5000	0.4986	a
80 1,1,1,2-Tetrachloroethane	131	11.677	11.677	0.000	32	2789	0.5000	0.4671	
83 Ethylbenzene	91	11.683	11.683	0.000	95	12874	0.5000	0.4845	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	9000	0.5000	0.4550	
88 o-Xylene	91	12.115	12.115	0.000	83	8634	0.5000	0.4439	
86 Styrene	104	12.128	12.128	0.000	84	7058	0.5000	0.4366	
85 Bromoform	173	12.286	12.286	0.000	66	2049	0.5000	0.4896	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
91 Isopropylbenzene	105	12.414	12.414	0.000	74	11621	0.5000	0.4441	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	95	84973	10.0	9.98	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	69	2559	0.5000	0.5040	
93 Bromobenzene	156	12.676	12.676	0.000	86	3699	0.5000	0.4705	
89 trans-1,4-Dichloro-2-butene	53	12.682	12.682	0.000	21	811	0.5000	0.5958	M
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	1	933	0.5000	0.5050	
94 N-Propylbenzene	91	12.749	12.749	0.000	81	13399	0.5000	0.4545	
95 2-Chlorotoluene	126	12.829	12.829	0.000	86	3239	0.5000	0.4709	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	86	8995	0.5000	0.4294	
96 4-Chlorotoluene	126	12.926	12.926	0.000	80	3241	0.5000	0.4636	
98 tert-Butylbenzene	119	13.146	13.146	0.000	83	8798	0.5000	0.4479	
99 1,2,4-Trimethylbenzene	105	13.195	13.195	0.000	56	9396	0.5000	0.8594	
100 sec-Butylbenzene	105	13.323	13.323	0.000	73	11962	0.5000	0.4211	
102 1,3-Dichlorobenzene	146	13.426	13.426	0.000	89	7398	0.5000	0.5045	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	84	10051	0.5000	0.3970	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	90	99709	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.512	13.512	0.000	51	7500	0.5000	0.5082	a
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	5	9446	0.5000	0.4471	
101 Benzyl chloride	126	13.585	13.585	0.000	55	1022	0.5000	0.4444	
108 n-Butylbenzene	134	13.768	13.768	0.000	81	3322	0.5000	0.4893	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	83	6909	0.5000	0.5076	
109 1,2-Dibromo-3-Chloropropane	157	14.408	14.408	0.000	10	709	0.5000	0.5438	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	79	6387	0.5000	0.5308	
111 1,2,4-Trichlorobenzene	180	15.036	15.036	0.000	71	5789	0.5000	0.5890	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	76	5315	0.5000	0.7543	
112 Naphthalene	128	15.249	15.249	0.000	89	11869	0.5000	0.7299	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	81	6486	0.5000	0.7426	

### QC Flag Legend

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 0.05

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D

Injection Date: 14-Jul-2020 15:42:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 3

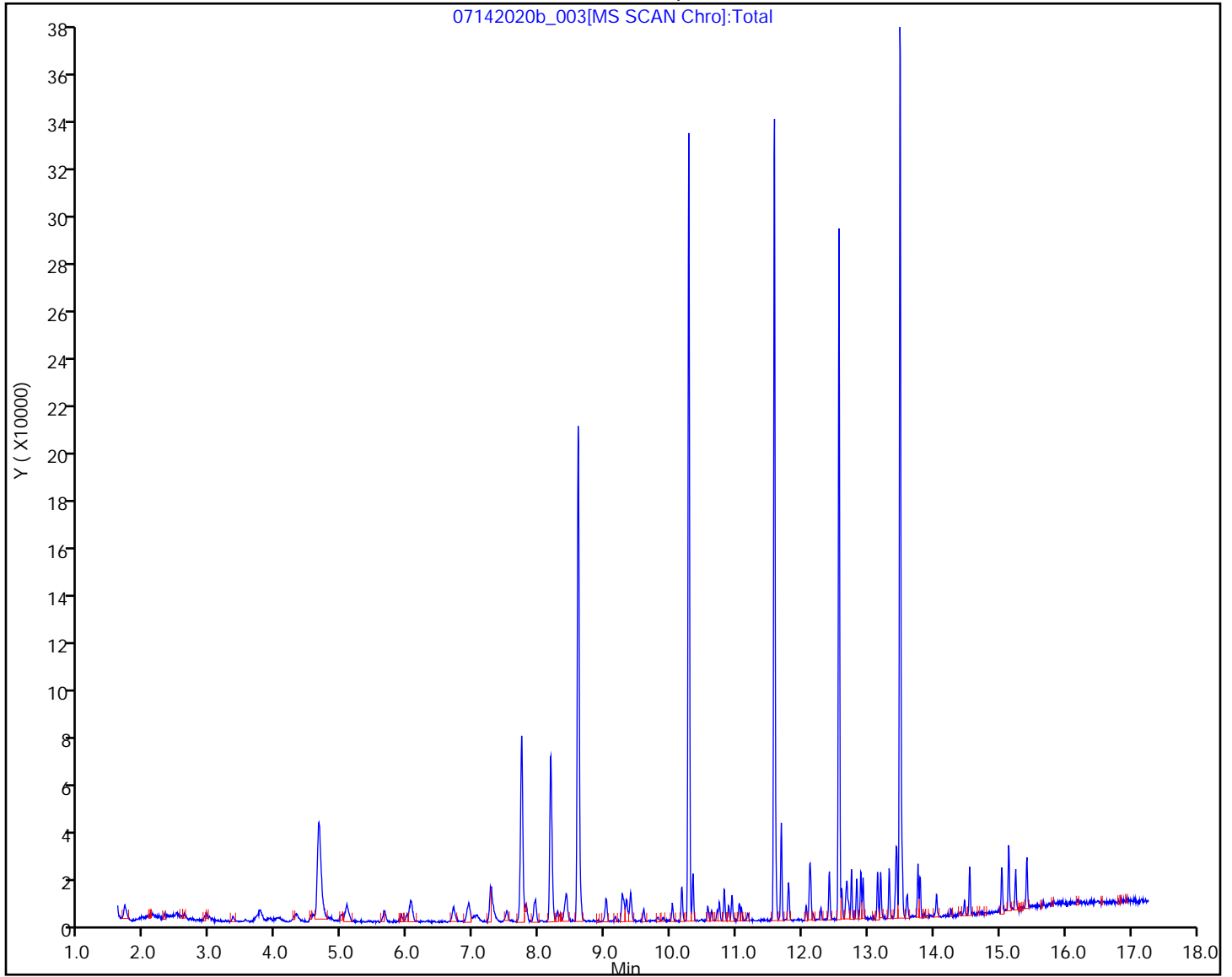
Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

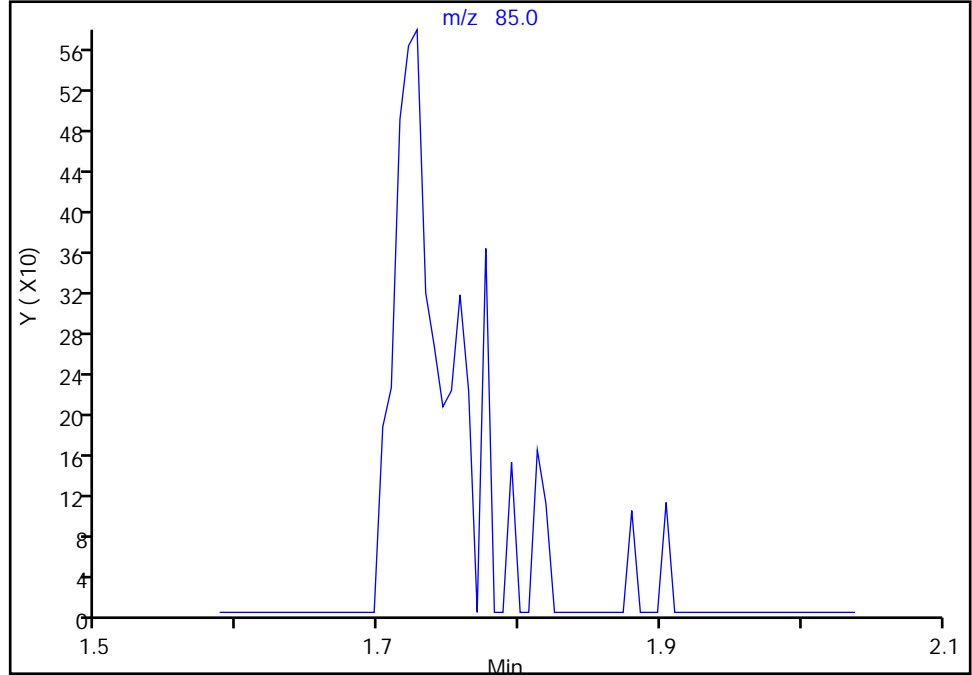
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

**3 Dichlorodifluoromethane, CAS: 75-71-8**

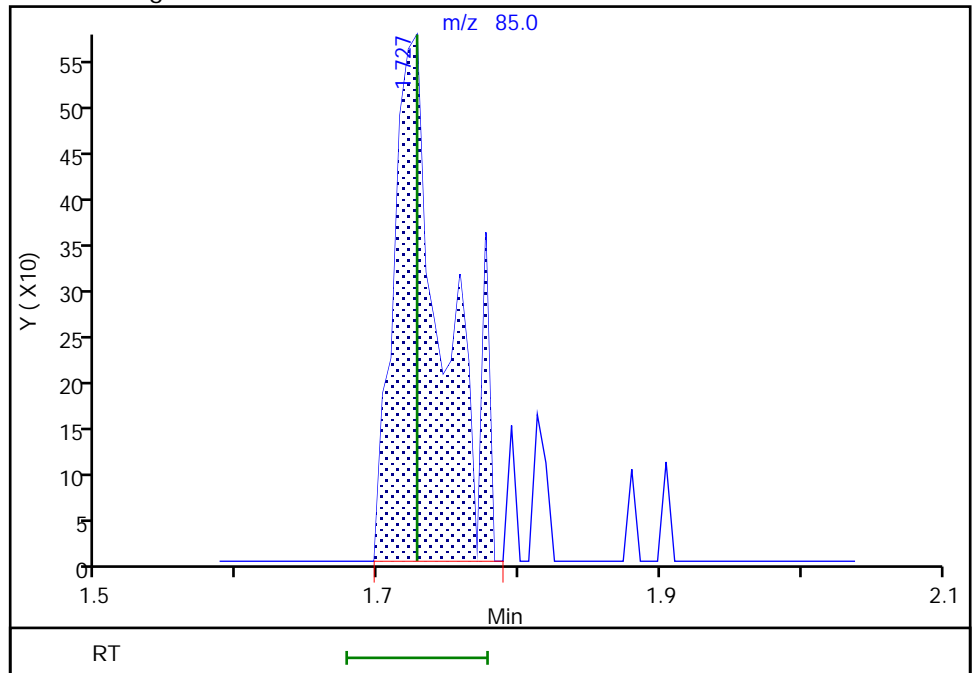
Signal: 1

Not Detected  
Expected RT: 1.73

Processing Integration Results



Manual Integration Results



RT: 1.73  
Area: 1440  
Amount: 0.593684  
Amount Units: ug/L

Eurofins TestAmerica, Seattle

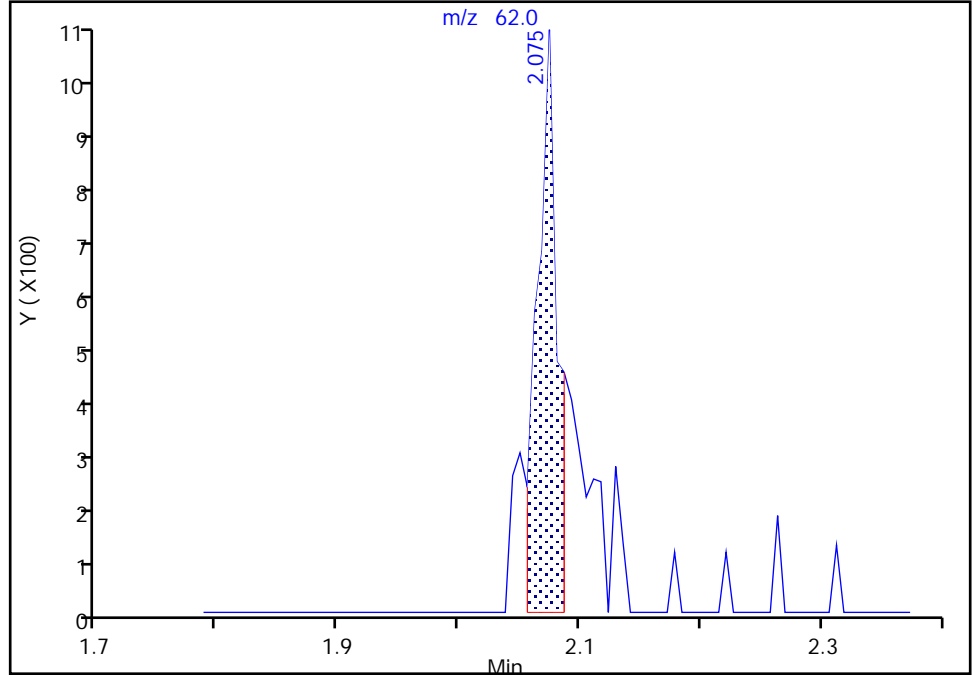
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

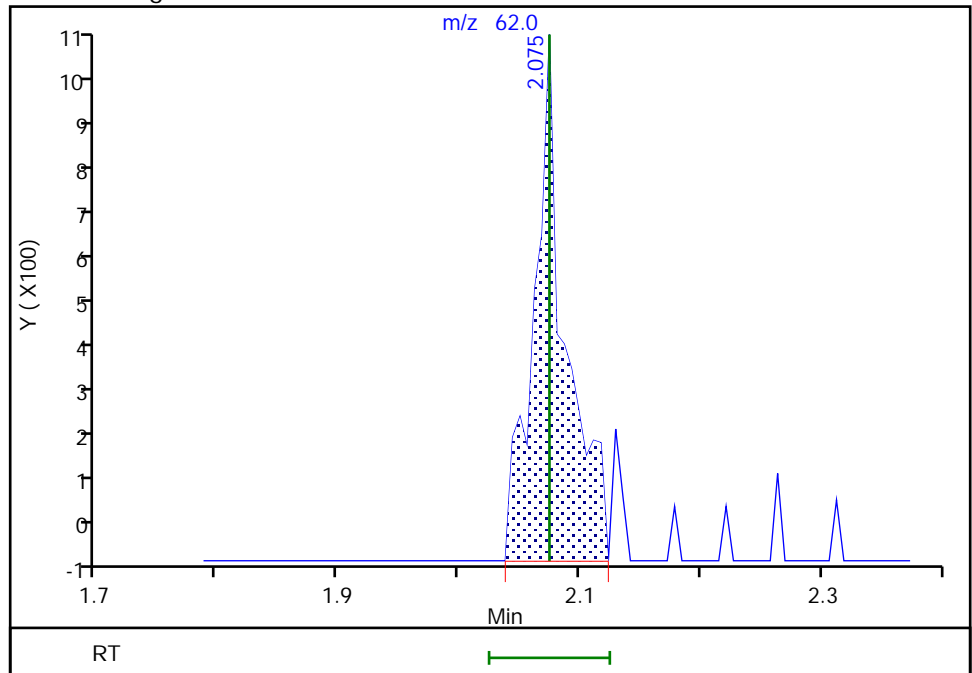
RT: 2.07  
Area: 1246  
Amount: 0.368452  
Amount Units: ug/L

Processing Integration Results



RT: 2.07  
Area: 1956  
Amount: 0.512587  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:28:51  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

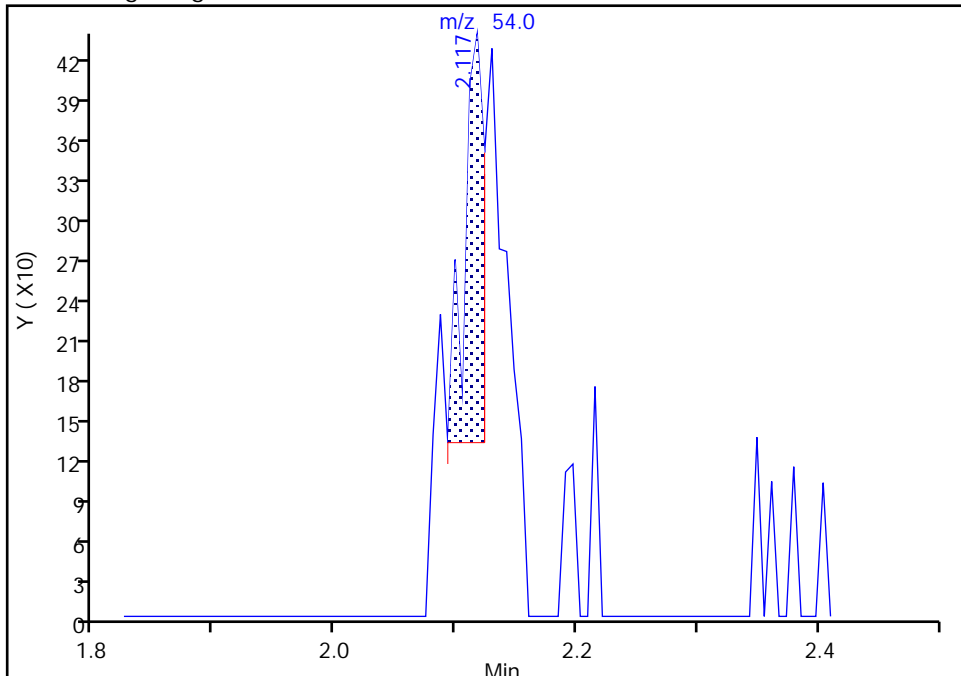
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

6 Butadiene, CAS: 106-99-0

Signal: 1

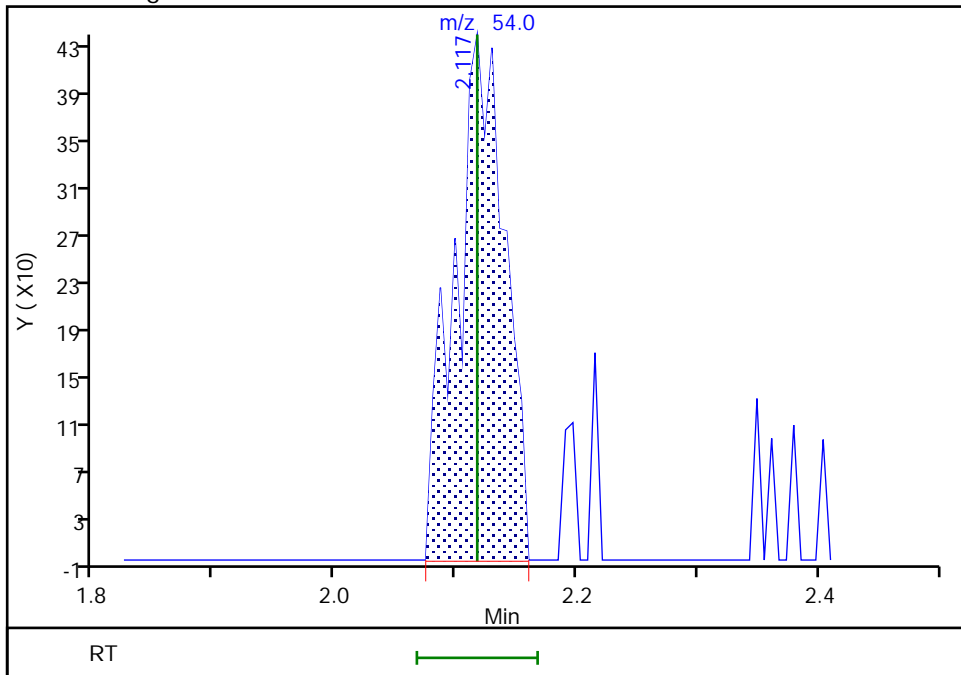
RT: 2.12  
Area: 349  
Amount: 0.586727  
Amount Units: ug/L

Processing Integration Results



RT: 2.12  
Area: 1245  
Amount: 0.437670  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:28:58  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

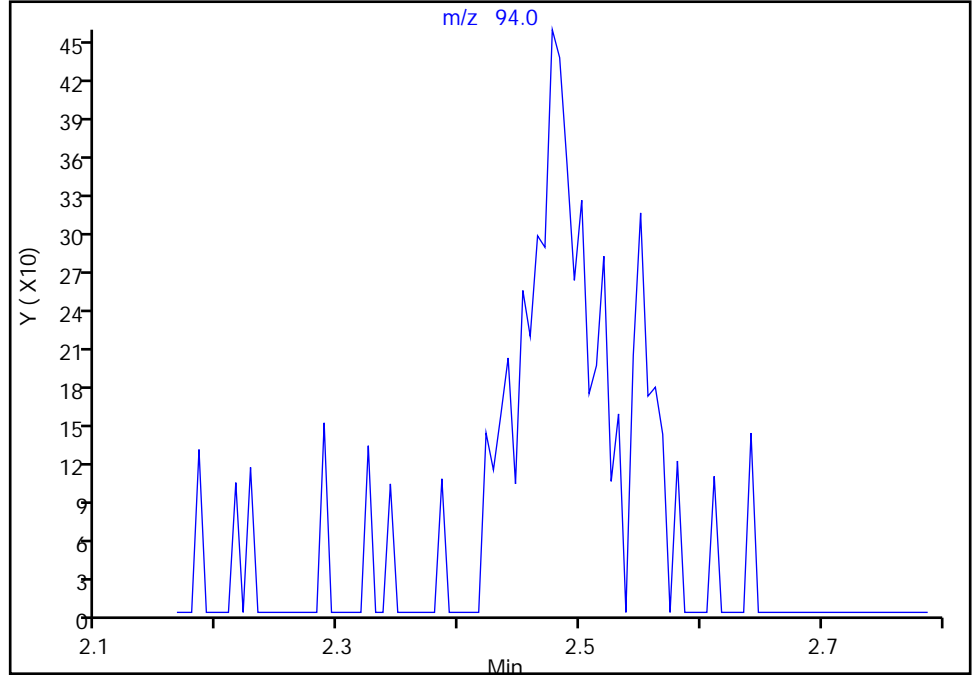
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

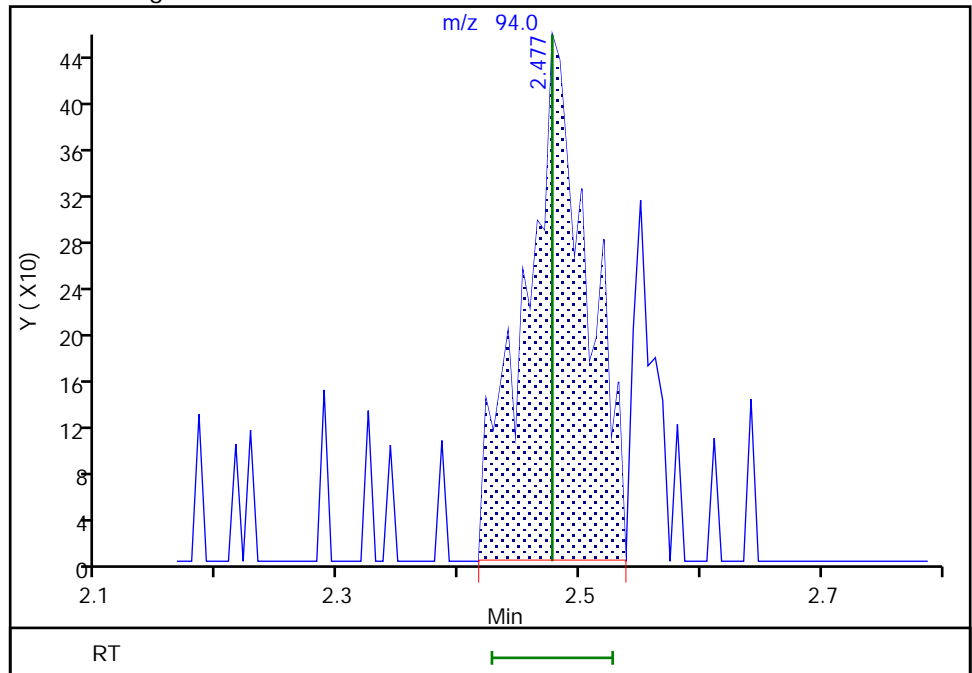
Not Detected  
Expected RT: 2.48

Processing Integration Results



Manual Integration Results

RT: 2.48  
Area: 1638  
Amount: 0.505878  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 14:29:12  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

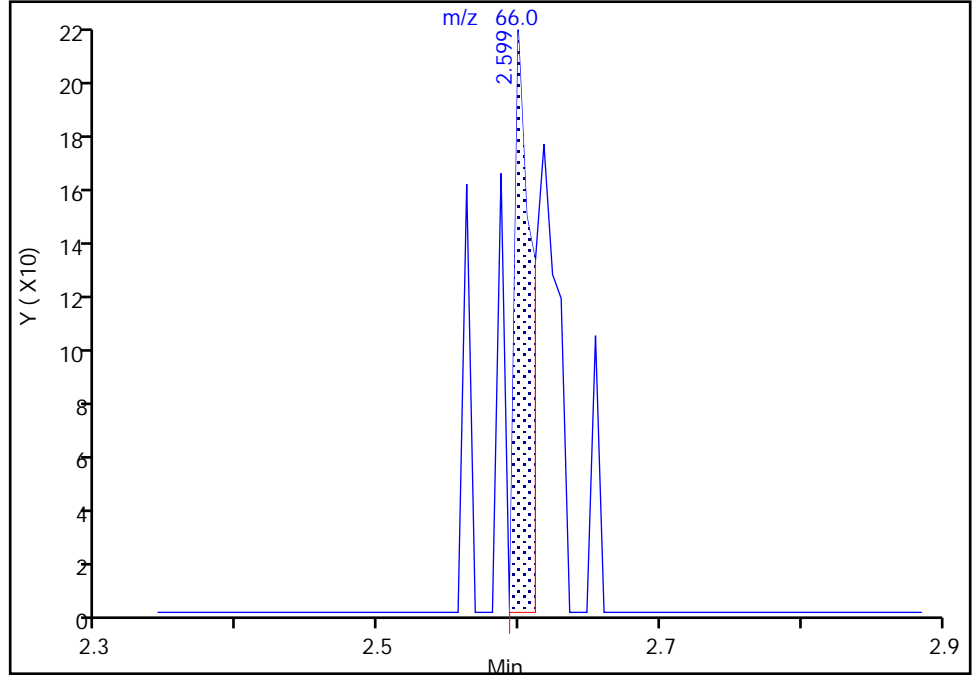
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Signal: 1

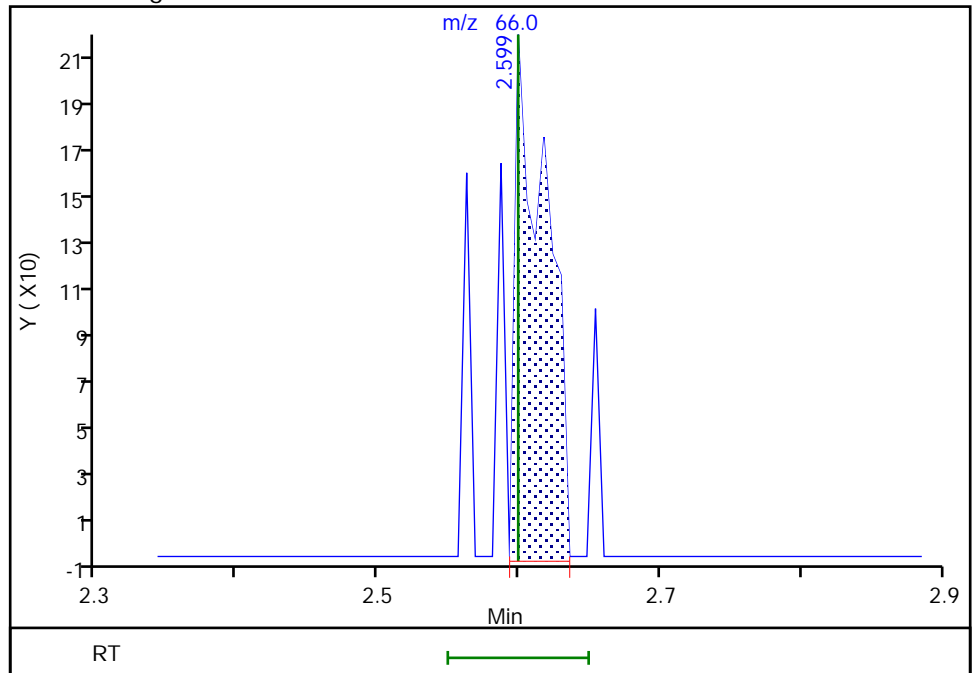
RT: 2.60  
Area: 183  
Amount: 0.255840  
Amount Units: ug/L

Processing Integration Results



RT: 2.60  
Area: 343  
Amount: 0.513915  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:29:22  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

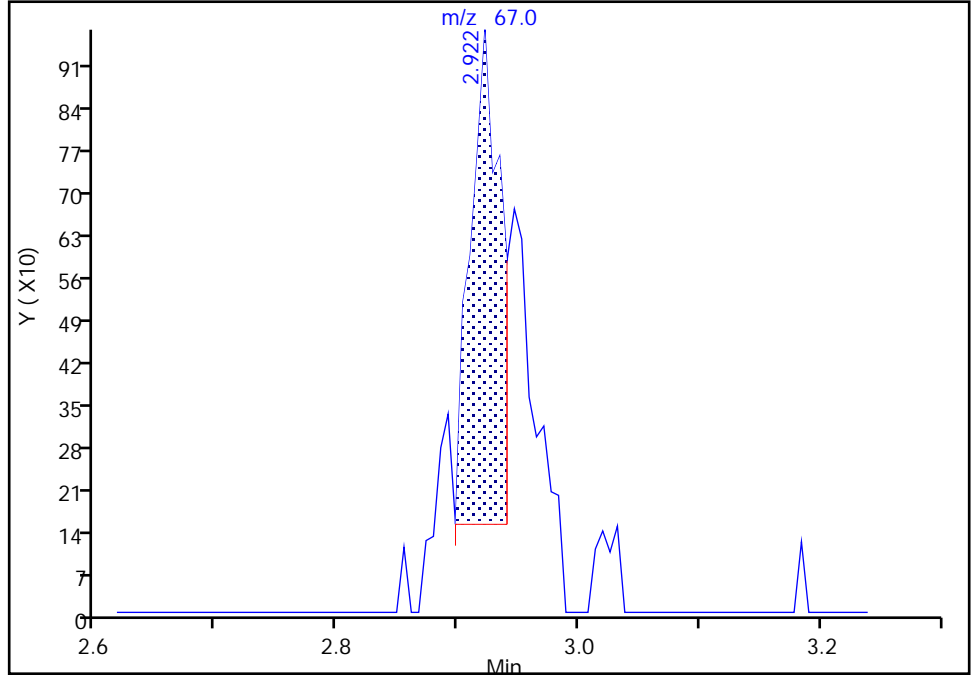
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

10 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

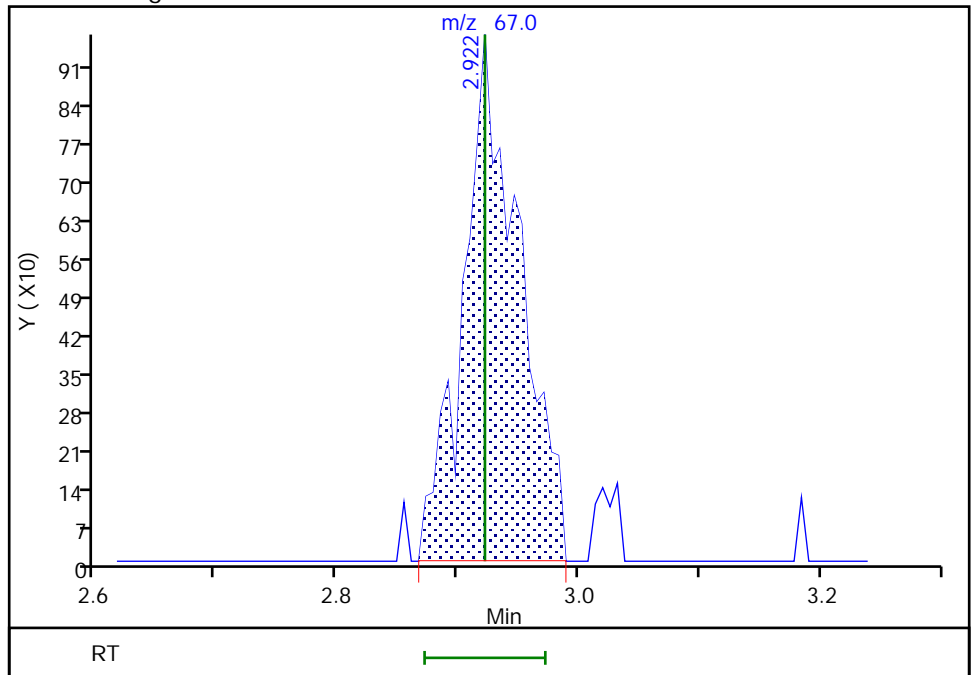
RT: 2.92  
Area: 1420  
Amount: 0.702508  
Amount Units: ug/L

Processing Integration Results



RT: 2.92  
Area: 3115  
Amount: 0.472413  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:29:32  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

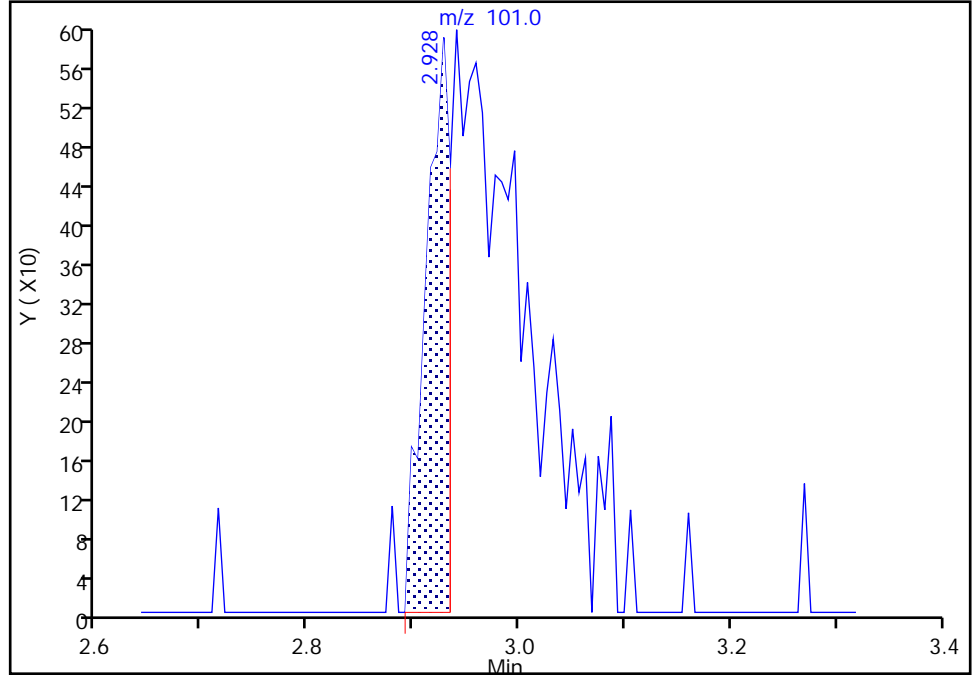
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

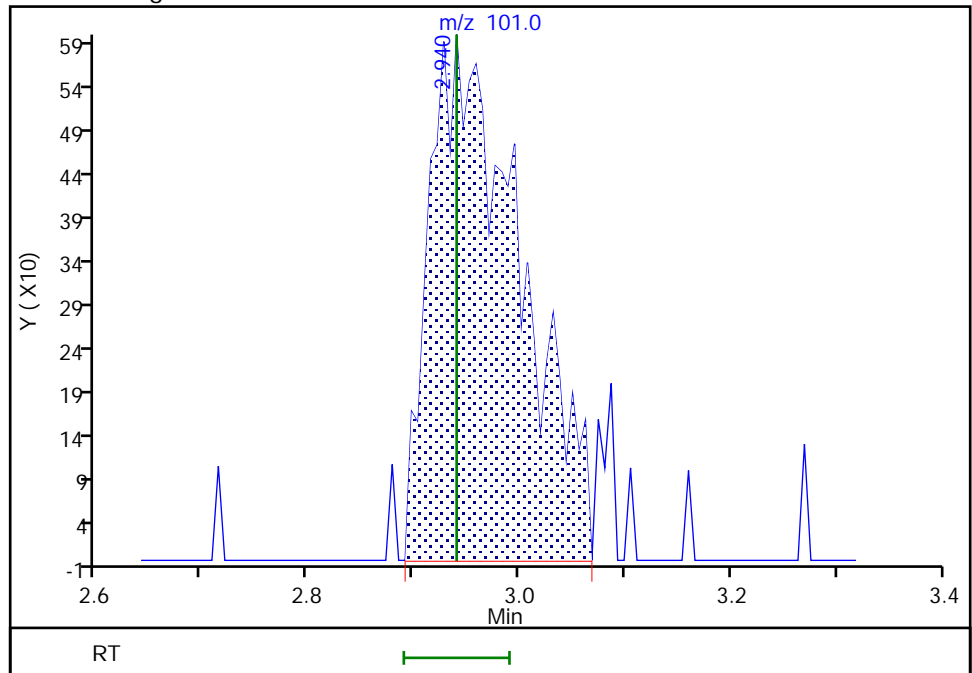
RT: 2.93  
Area: 954  
Amount: 0.242222  
Amount Units: ug/L

Processing Integration Results



RT: 2.94  
Area: 3571  
Amount: 0.548761  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:32:04  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

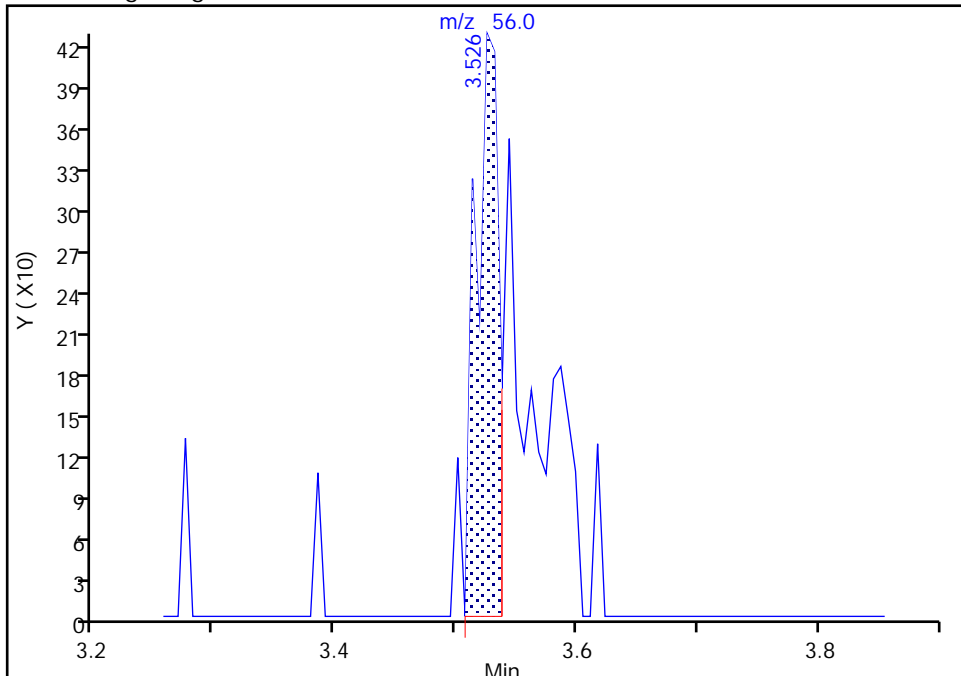
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

12 Acrolein, CAS: 107-02-8

Signal: 1

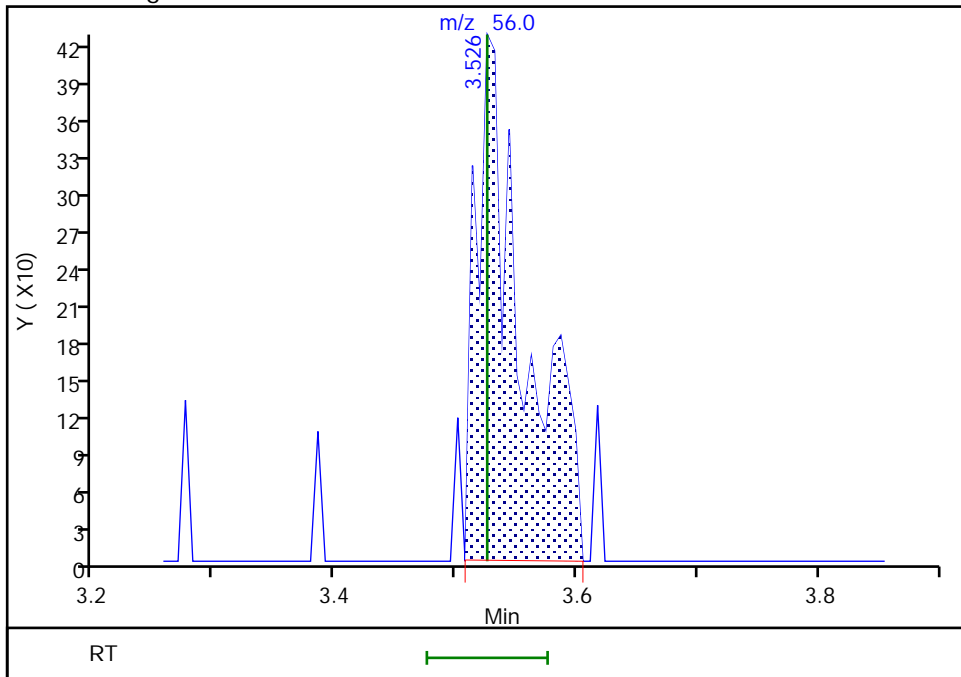
RT: 3.53  
Area: 555  
Amount: 1.244168  
Amount Units: ug/L

Processing Integration Results



RT: 3.53  
Area: 1138  
Amount: 3.240787  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:32:14  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

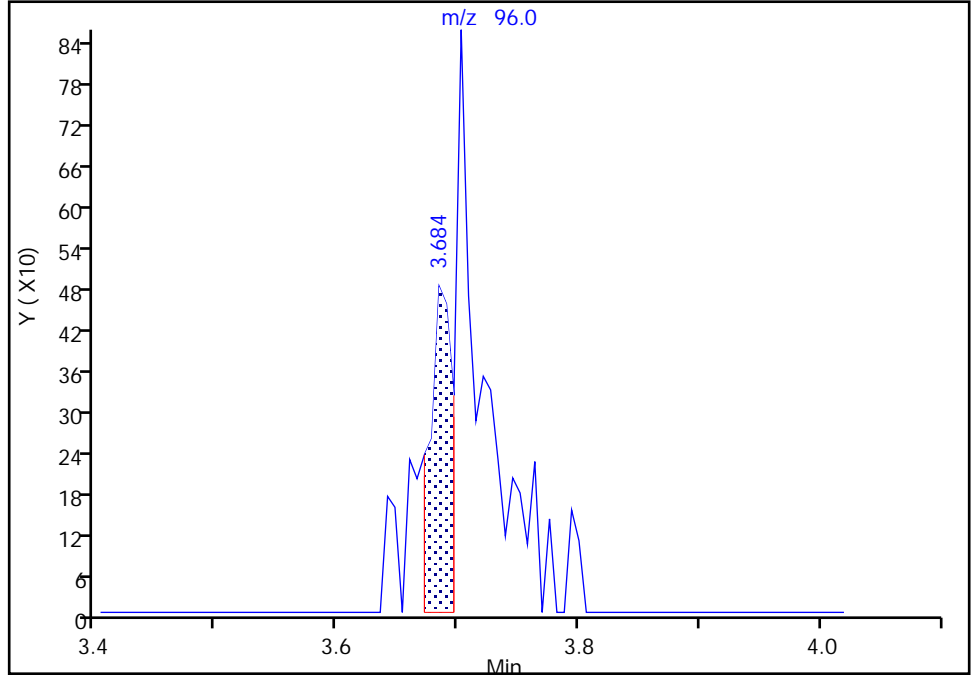
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

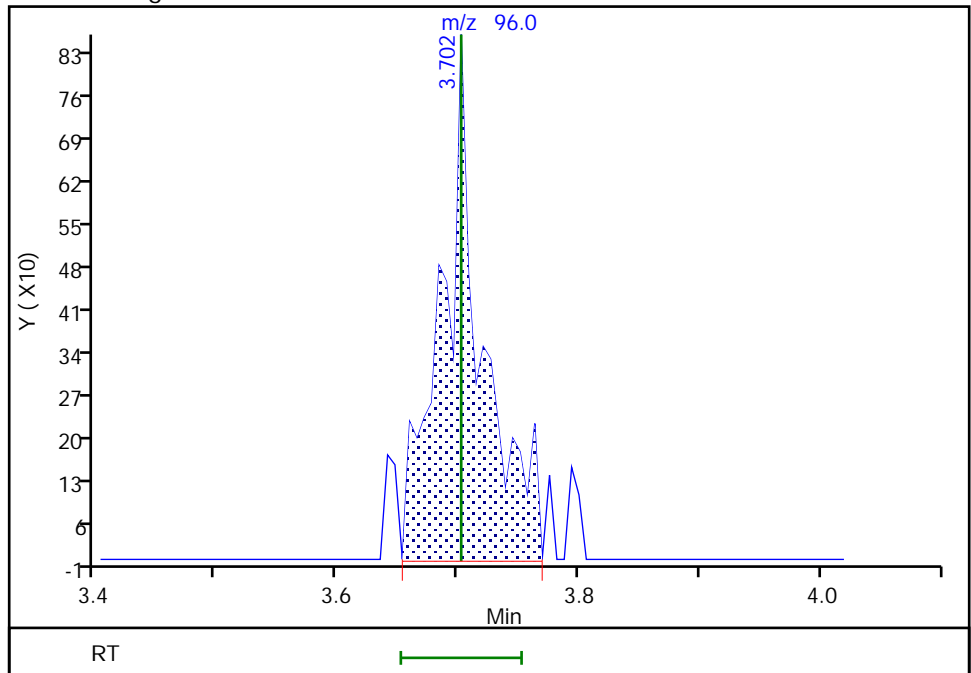
RT: 3.68  
Area: 635  
Amount: 0.214454  
Amount Units: ug/L

Processing Integration Results



RT: 3.70  
Area: 2017  
Amount: 0.516259  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:32:22  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

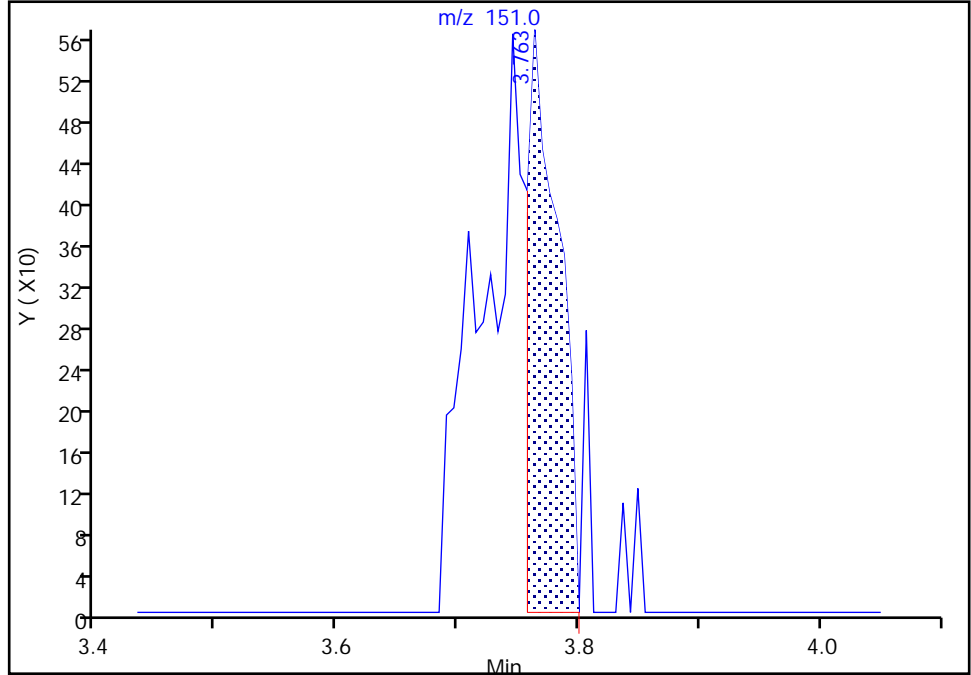
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

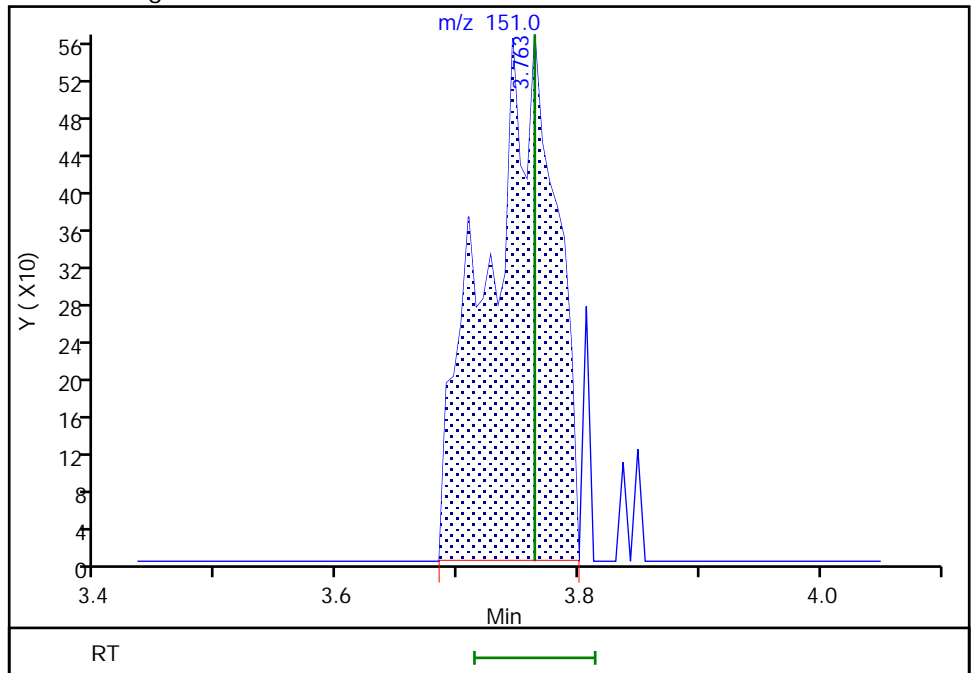
RT: 3.76  
Area: 1018  
Amount: 0.294978  
Amount Units: ug/L

Processing Integration Results



RT: 3.76  
Area: 2274  
Amount: 0.502412  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:32:28  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

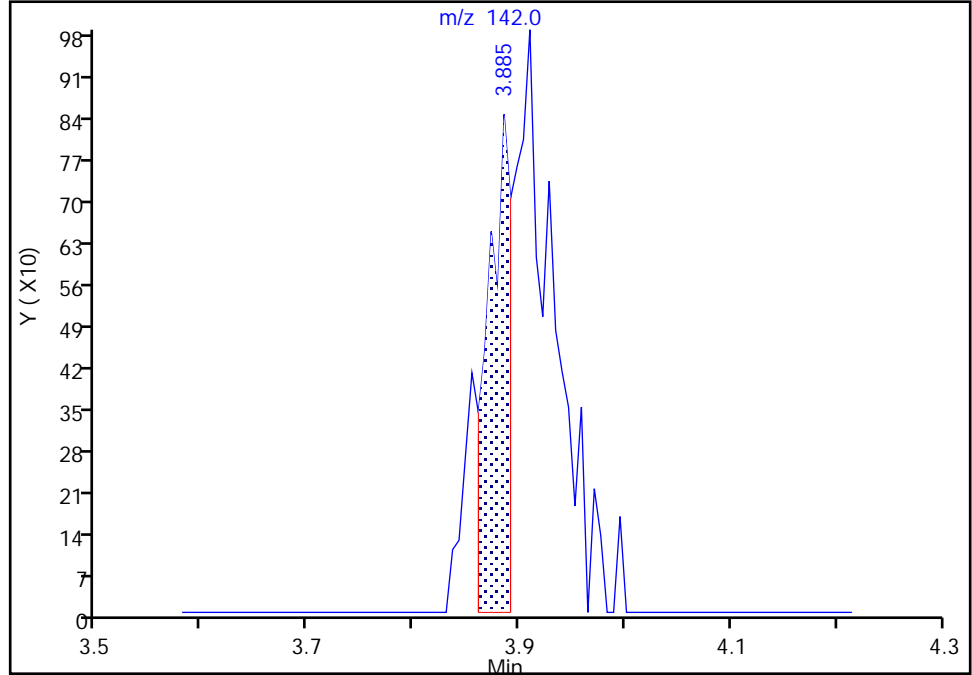
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

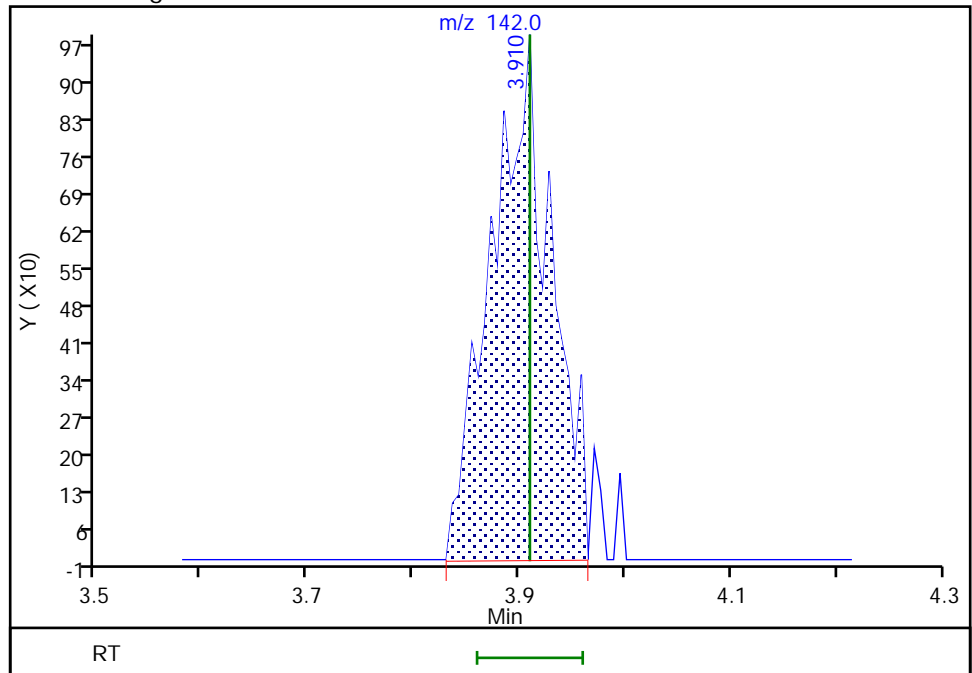
RT: 3.89  
Area: 1284  
Amount: 0.205433  
Amount Units: ug/L

Processing Integration Results



RT: 3.91  
Area: 3869  
Amount: 0.477218  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:37:42  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

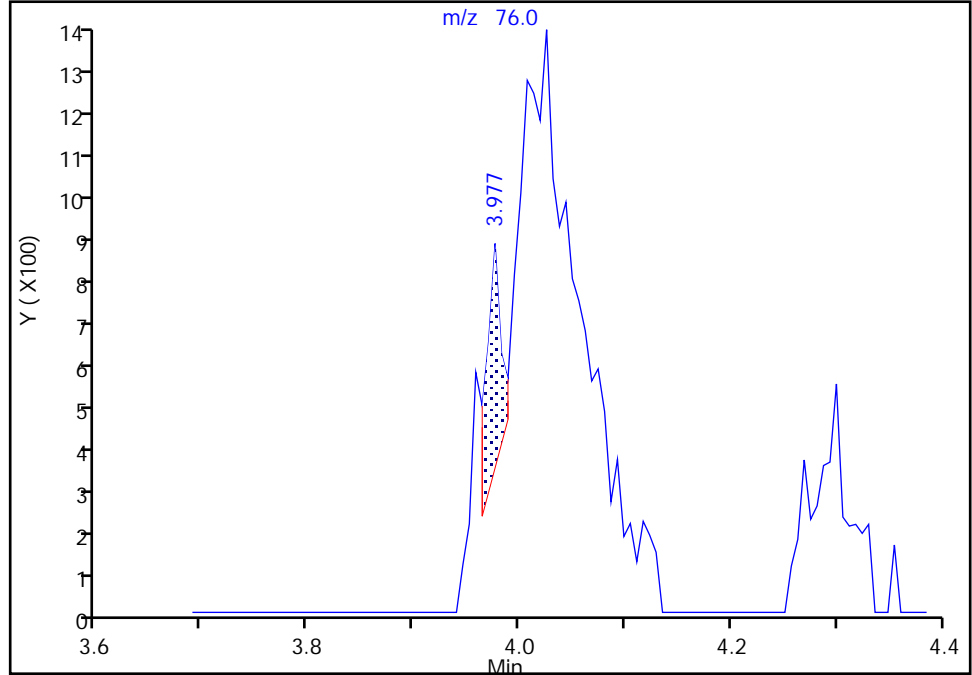
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

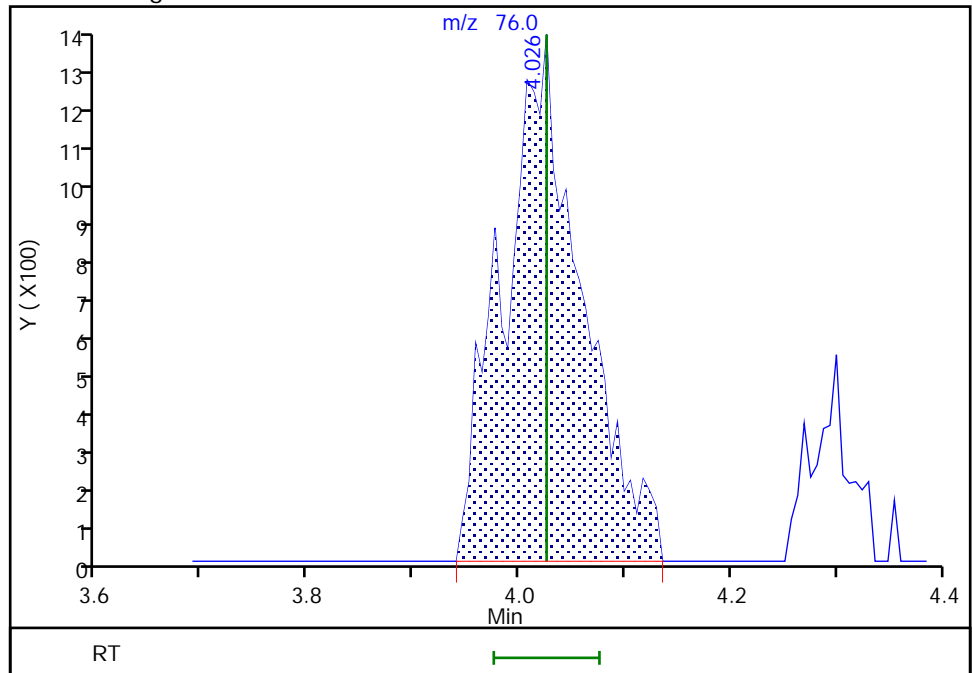
RT: 3.98  
Area: 525  
Amount: 0.064442  
Amount Units: ug/L

Processing Integration Results



RT: 4.03  
Area: 6933  
Amount: 0.548874  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:37:53  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

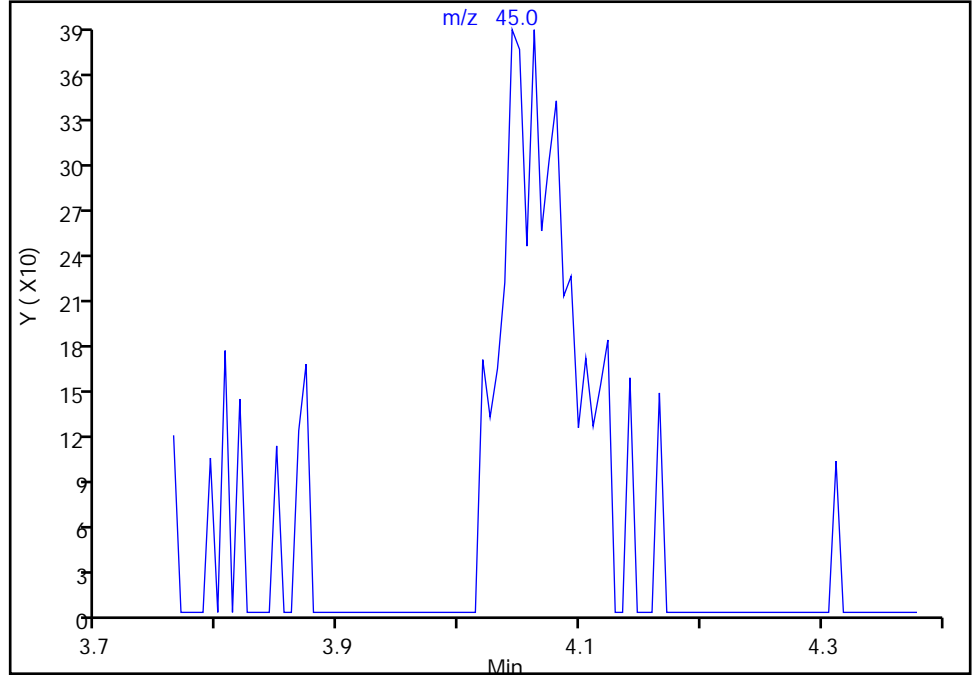
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

15 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

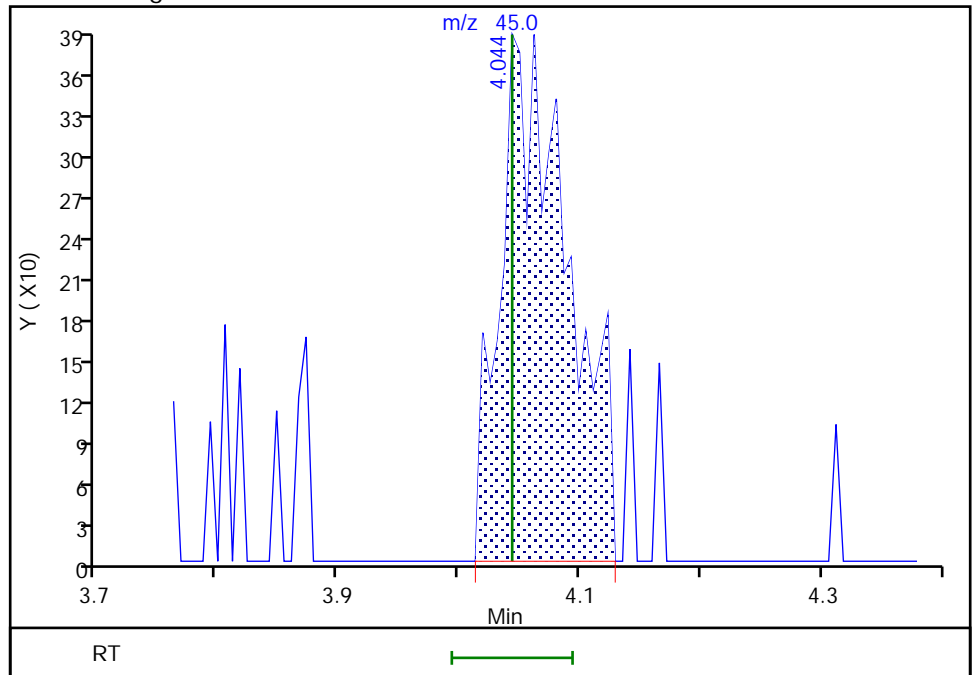
Not Detected  
Expected RT: 4.04

Processing Integration Results



RT: 4.04  
Area: 1507  
Amount: 7.386614  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:38:07  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

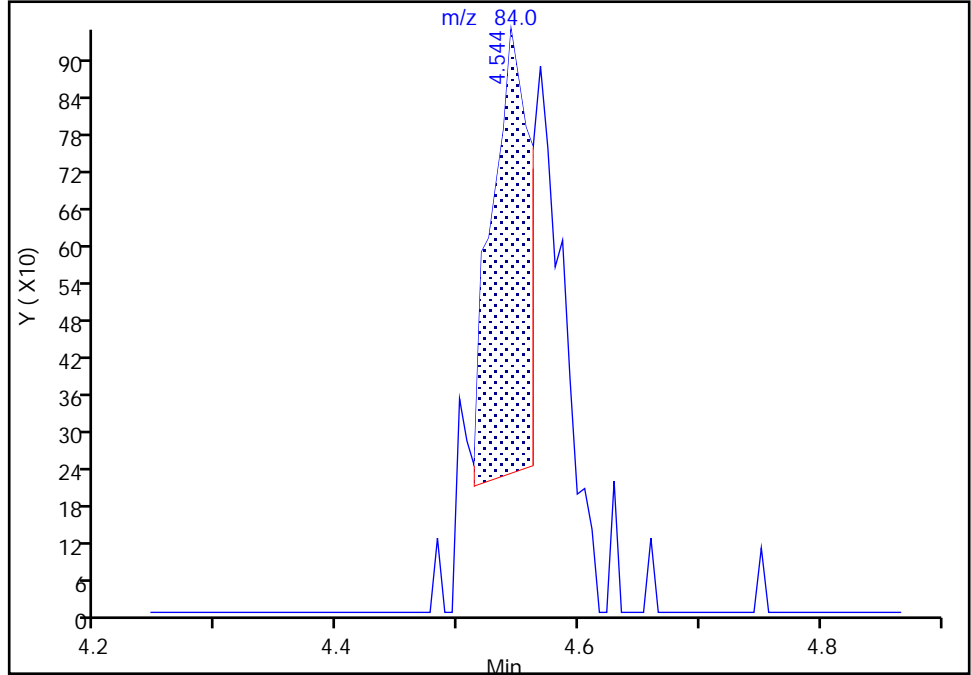
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

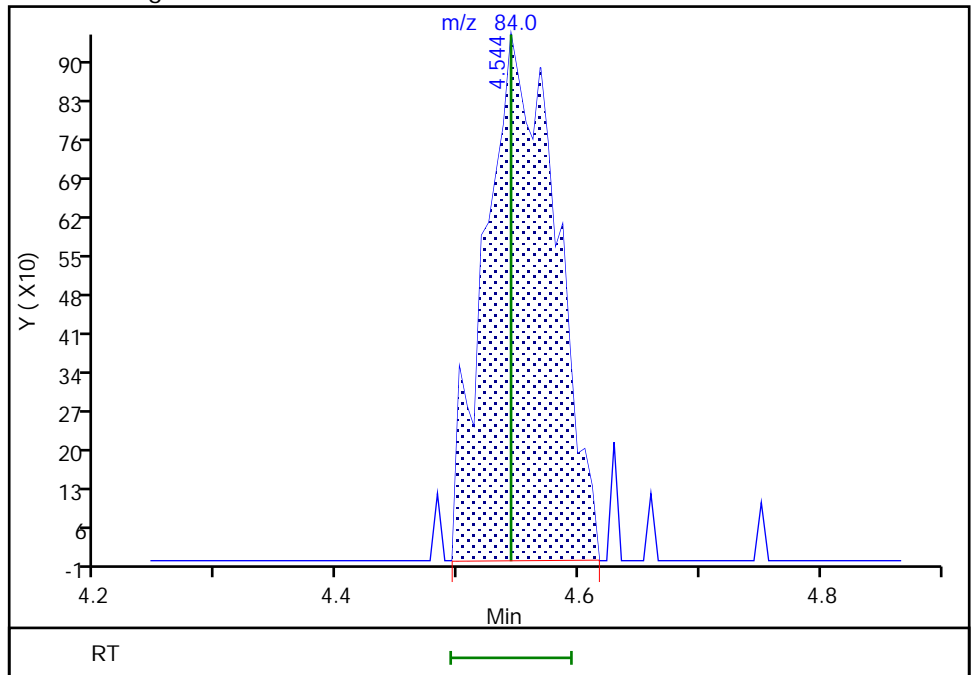
RT: 4.54  
Area: 1557  
Amount: 0.598594  
Amount Units: ug/L

Processing Integration Results



RT: 4.54  
Area: 3861  
Amount: 0.481463  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:40:28  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

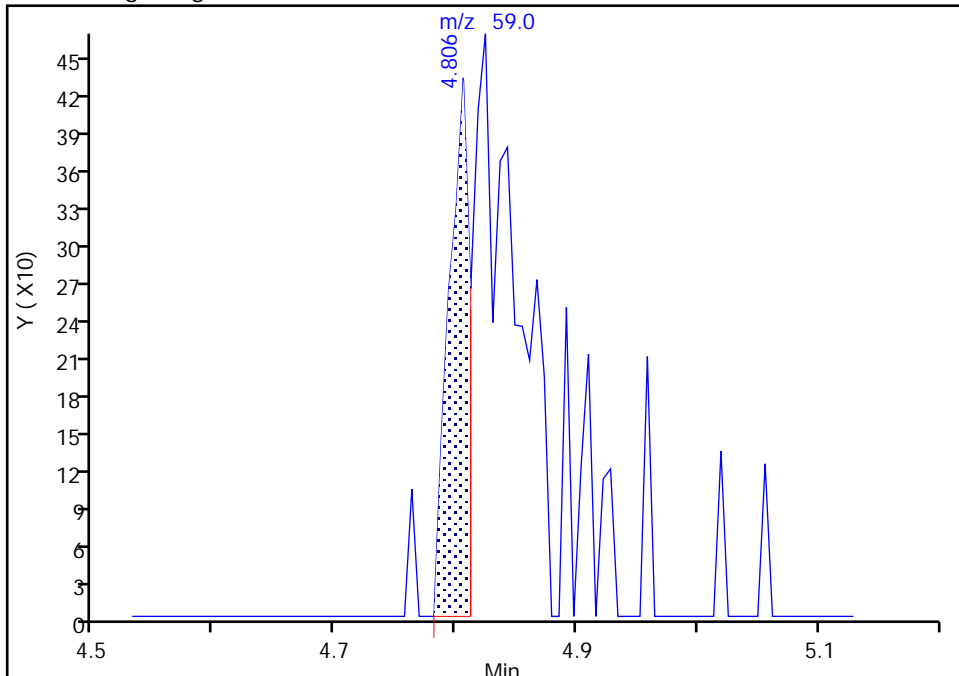
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

20 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

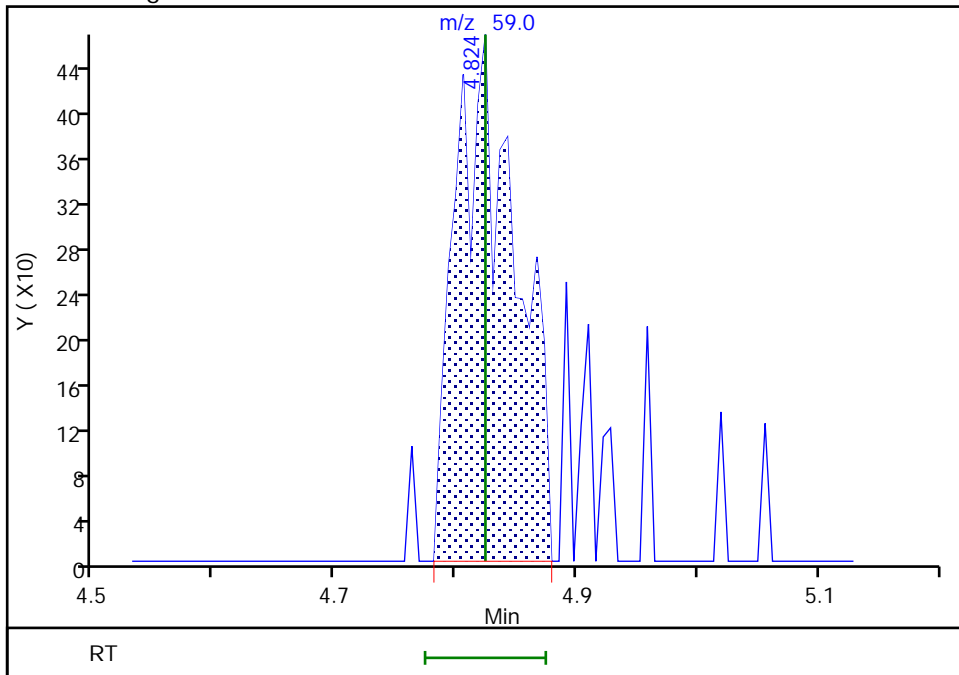
RT: 4.81  
Area: 515  
Amount: 1.892350  
Amount Units: ug/L

Processing Integration Results



RT: 4.82  
Area: 1594  
Amount: 3.857914  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:40:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

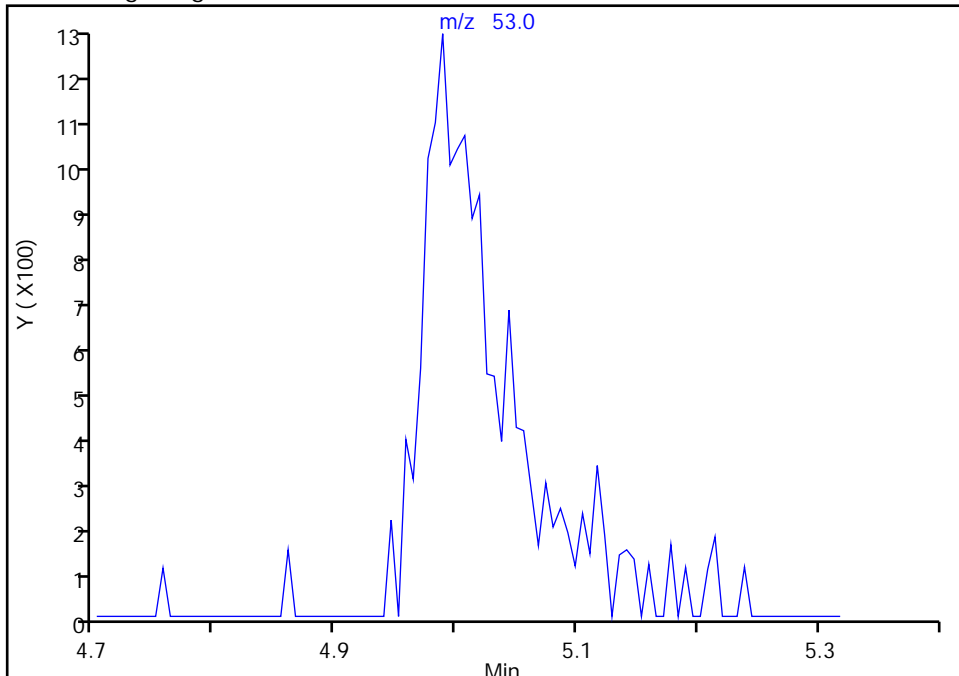
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

21 Acrylonitrile, CAS: 107-13-1

Signal: 1

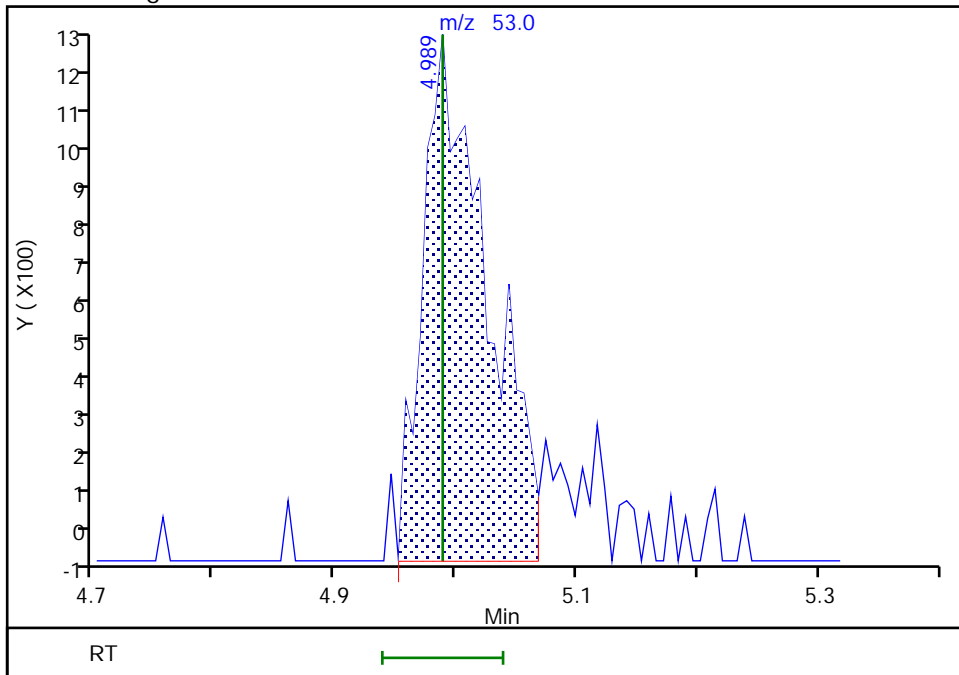
Not Detected  
Expected RT: 4.99

Processing Integration Results



Manual Integration Results

RT: 4.99  
Area: 4607  
Amount: 3.953793  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 14:40:52  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Seattle

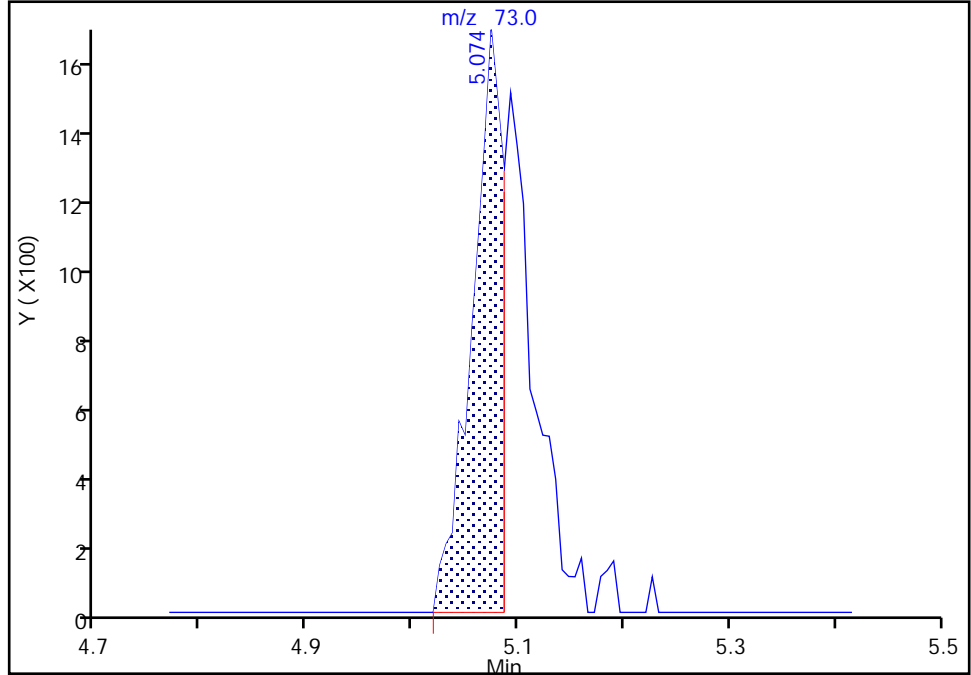
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

28 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

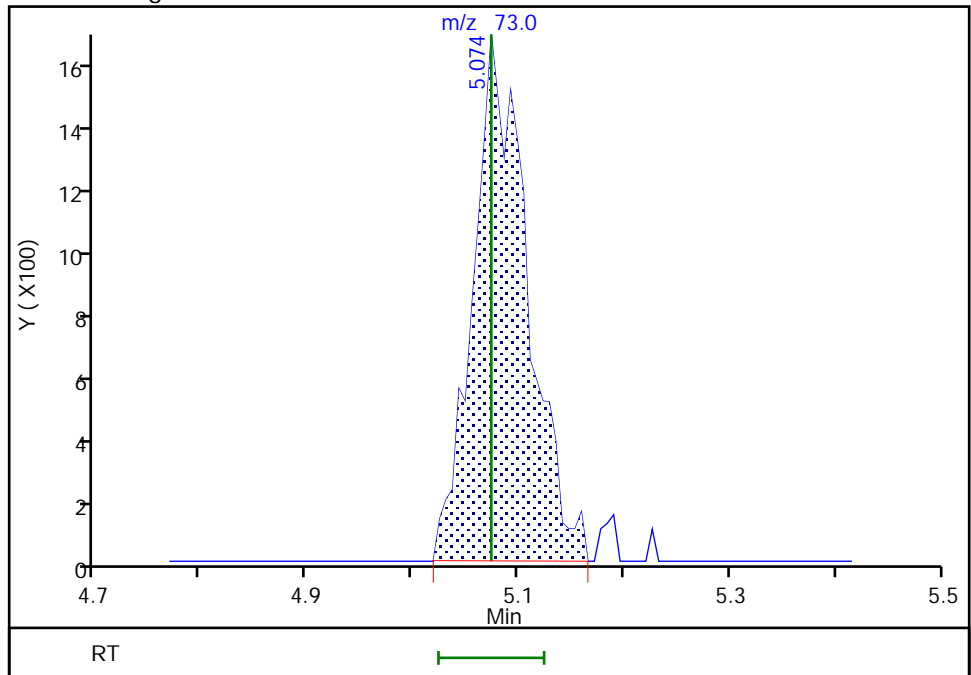
RT: 5.07  
Area: 3349  
Amount: 0.335094  
Amount Units: ug/L

Processing Integration Results



RT: 5.07  
Area: 5909  
Amount: 0.472318  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:41:23  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

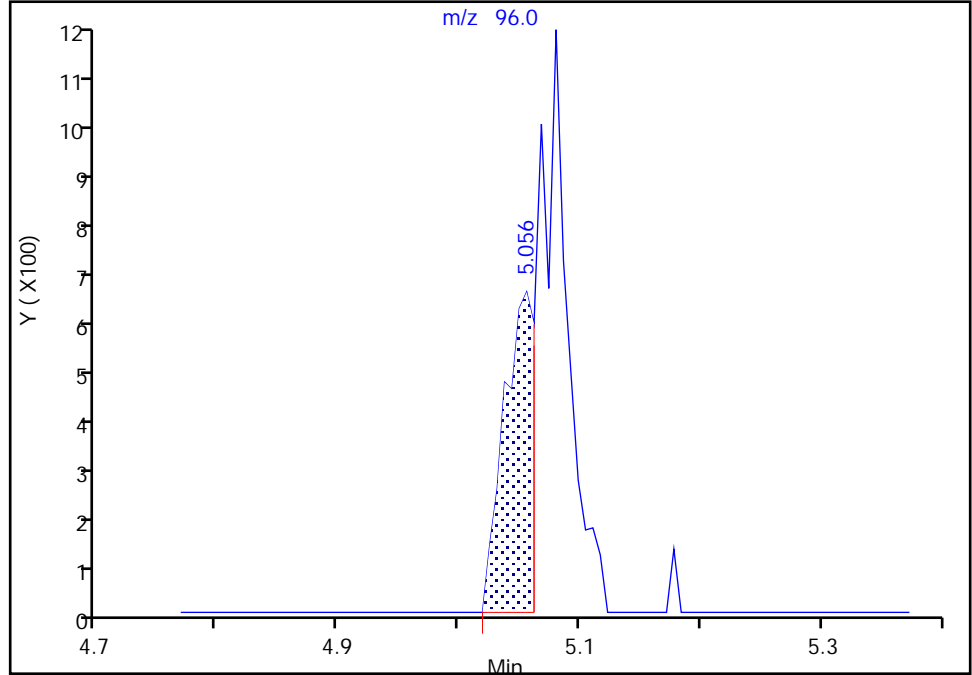
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Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

27 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

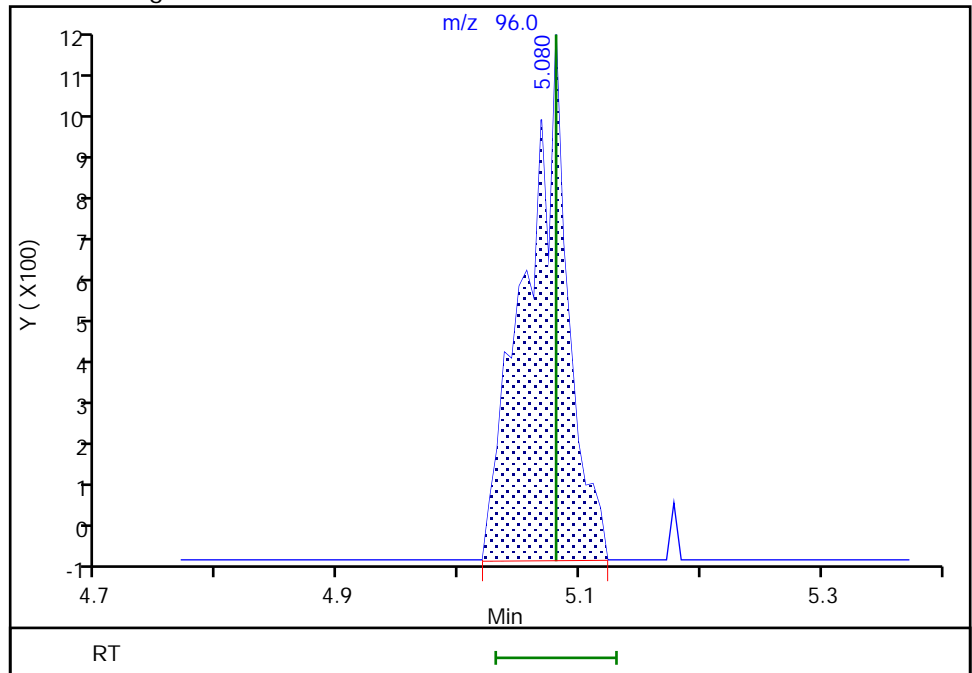
RT: 5.06  
Area: 1099  
Amount: 0.518173  
Amount Units: ug/L

Processing Integration Results



RT: 5.08  
Area: 2767  
Amount: 0.527472  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:41:13  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

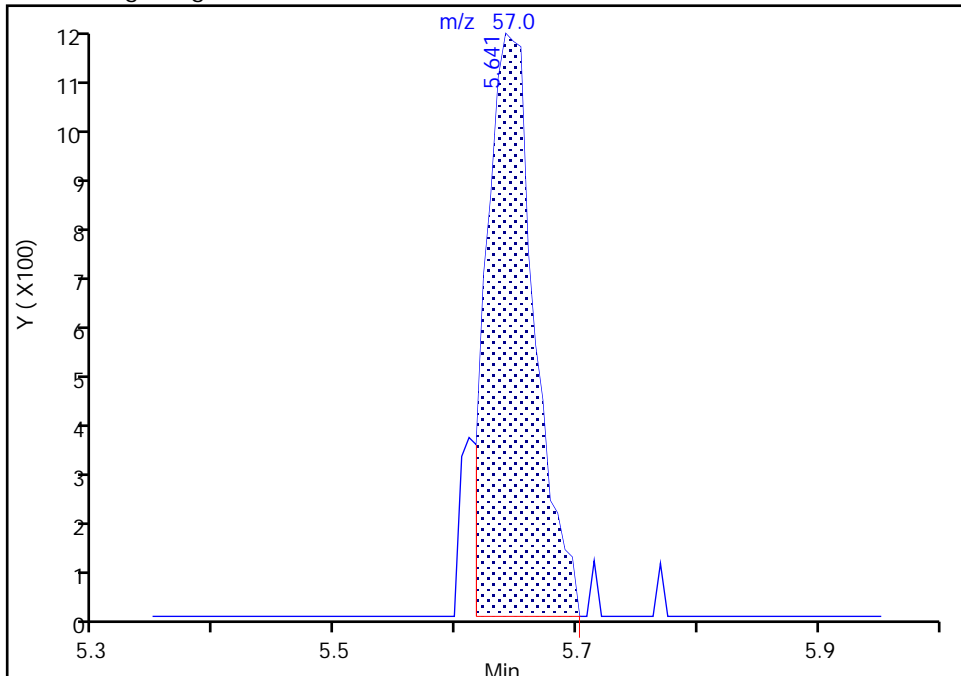
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Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

34 Hexane, CAS: 110-54-3

Signal: 1

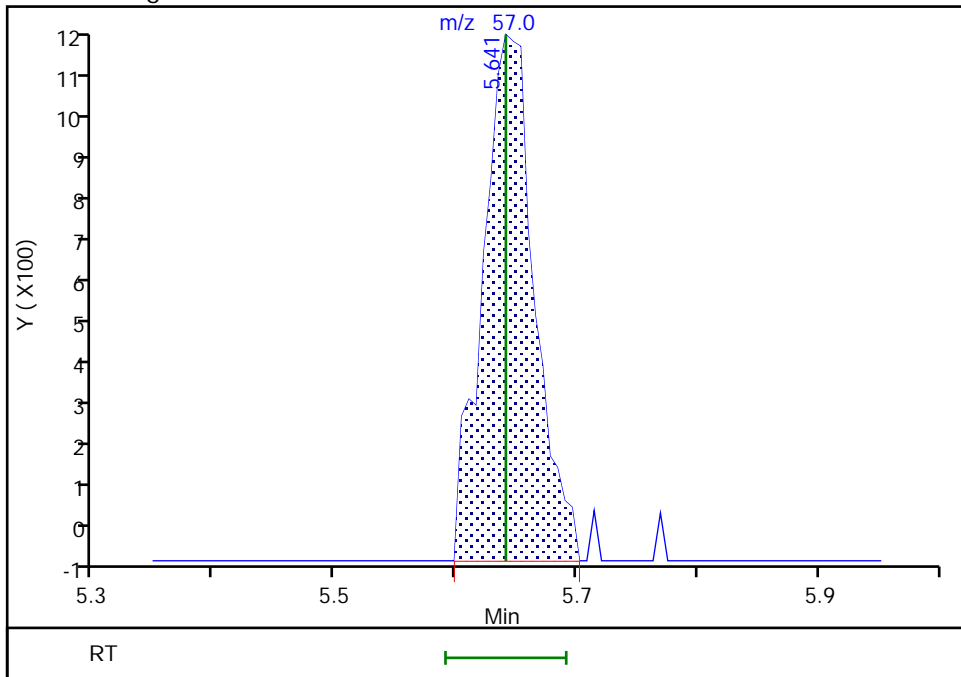
RT: 5.64  
Area: 3069  
Amount: 0.489322  
Amount Units: ug/L

Processing Integration Results



RT: 5.64  
Area: 3312  
Amount: 0.492962  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:41:29  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

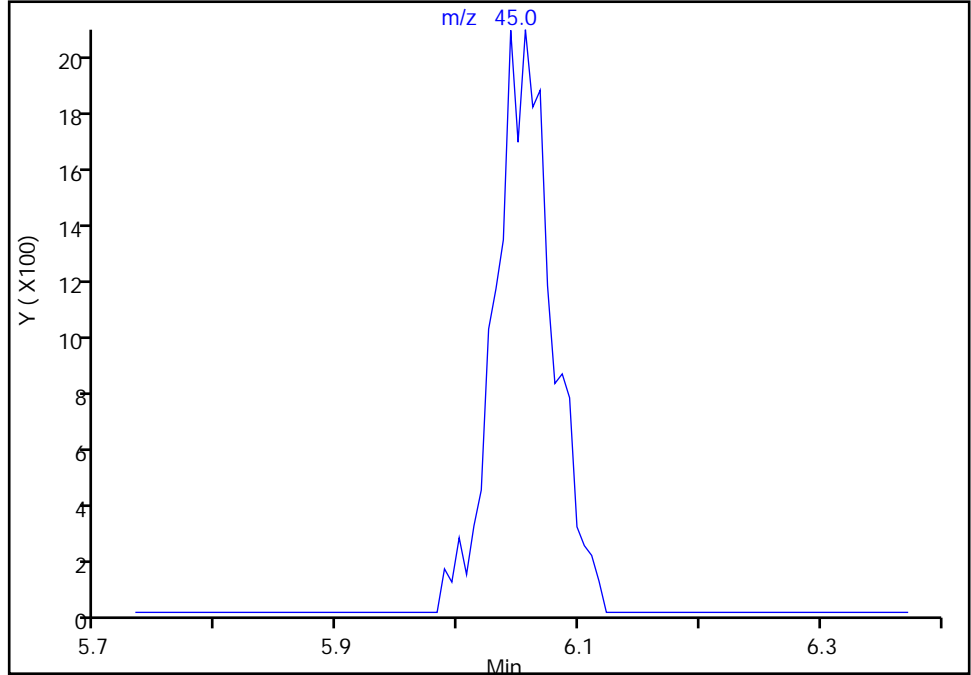
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

35 Isopropyl ether, CAS: 108-20-3

Signal: 1

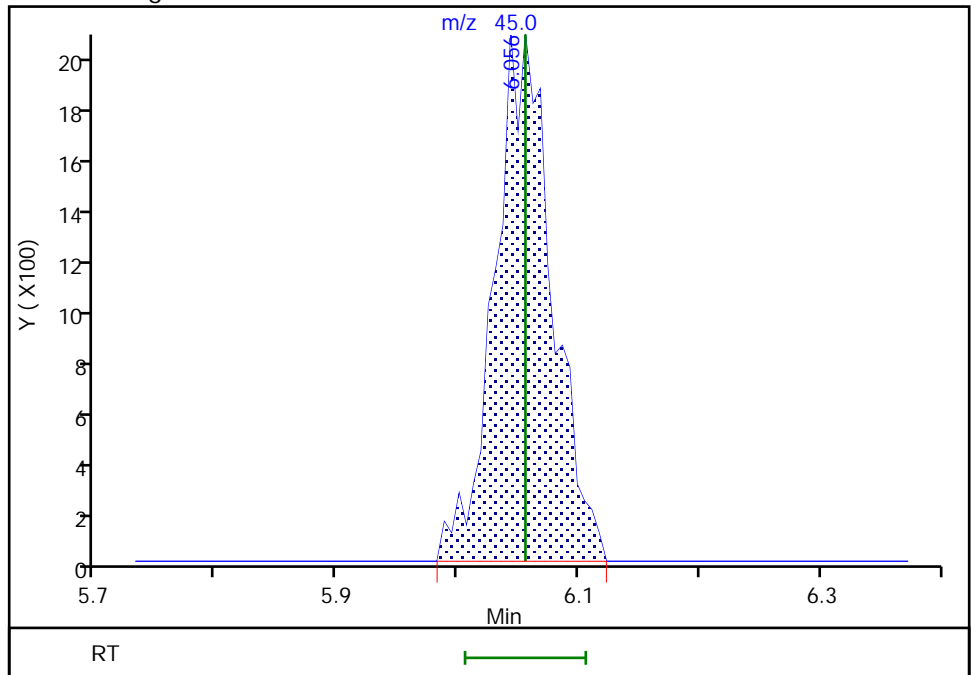
Not Detected  
Expected RT: 6.06

Processing Integration Results



Manual Integration Results

RT: 6.06  
Area: 6892  
Amount: 0.566300  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 14:41:42  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

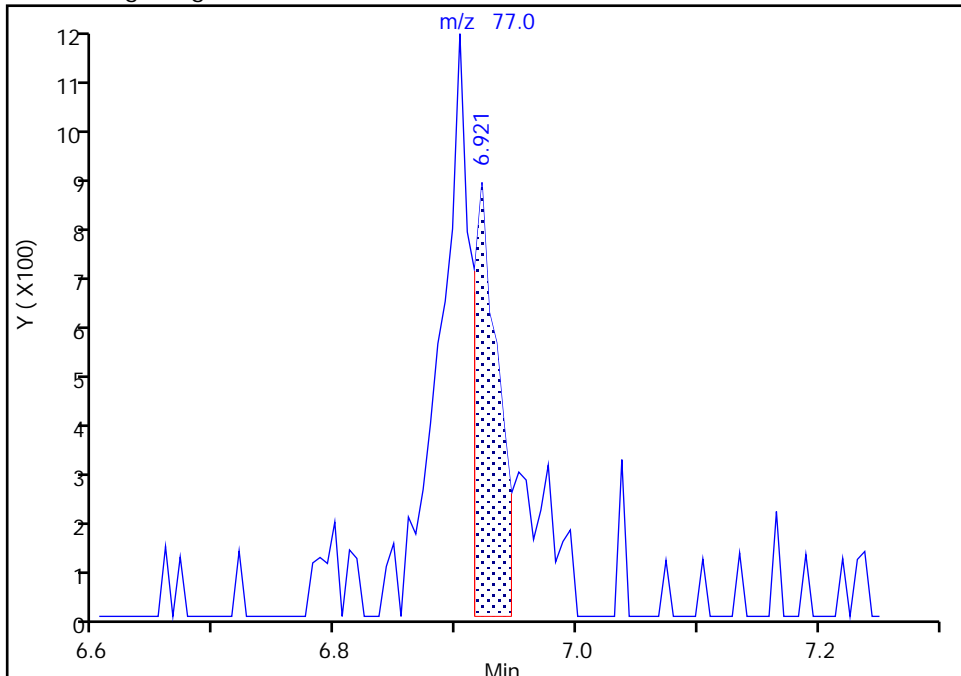
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Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

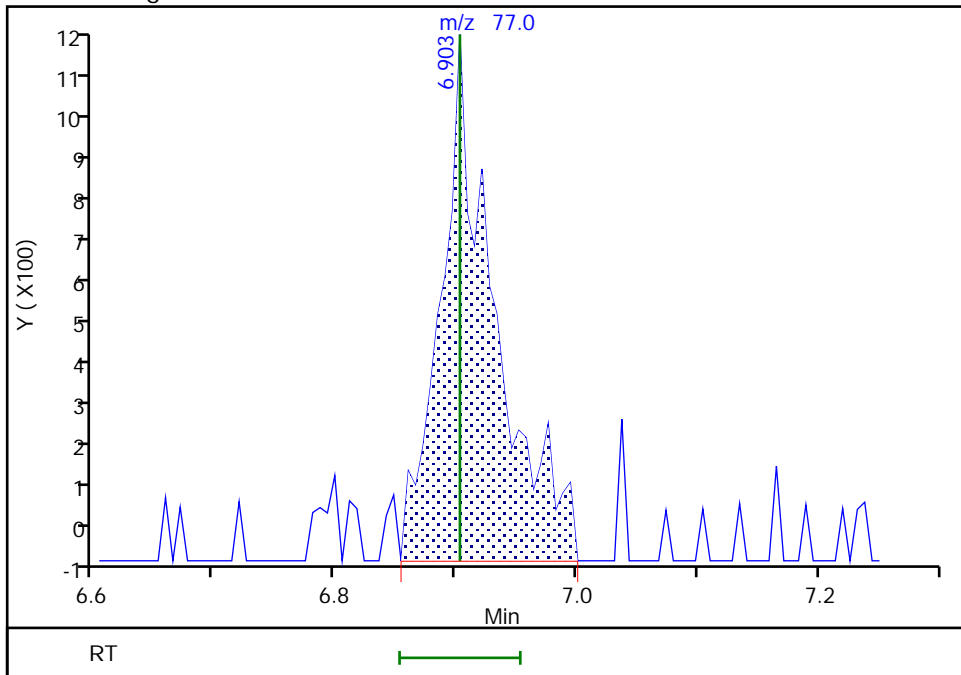
RT: 6.92  
Area: 1225  
Amount: 0.483316  
Amount Units: ug/L

Processing Integration Results



RT: 6.90  
Area: 3633  
Amount: 0.626033  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:41:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

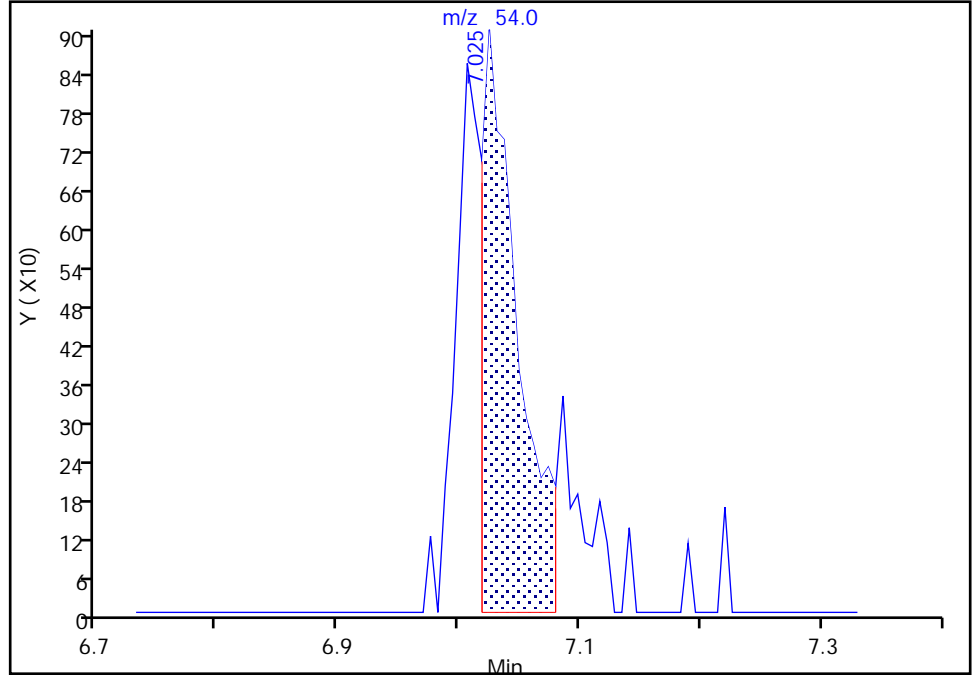
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

29 Propionitrile, CAS: 107-12-0

Signal: 1

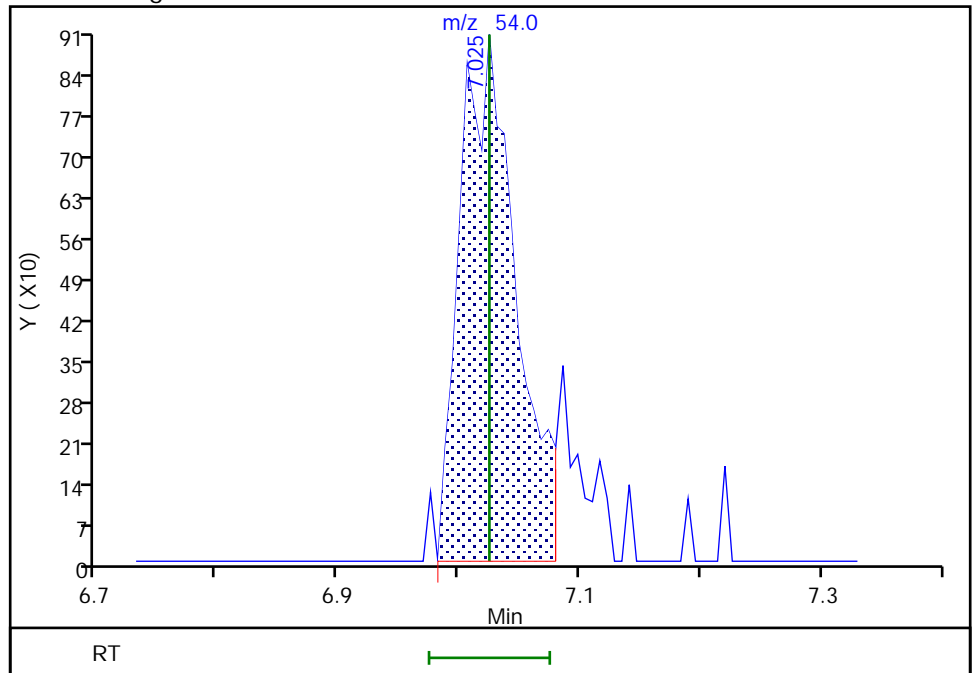
RT: 7.02  
Area: 1906  
Amount: 4.581189  
Amount Units: ug/L

Processing Integration Results



RT: 7.02  
Area: 2909  
Amount: 5.961738  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:42:19  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

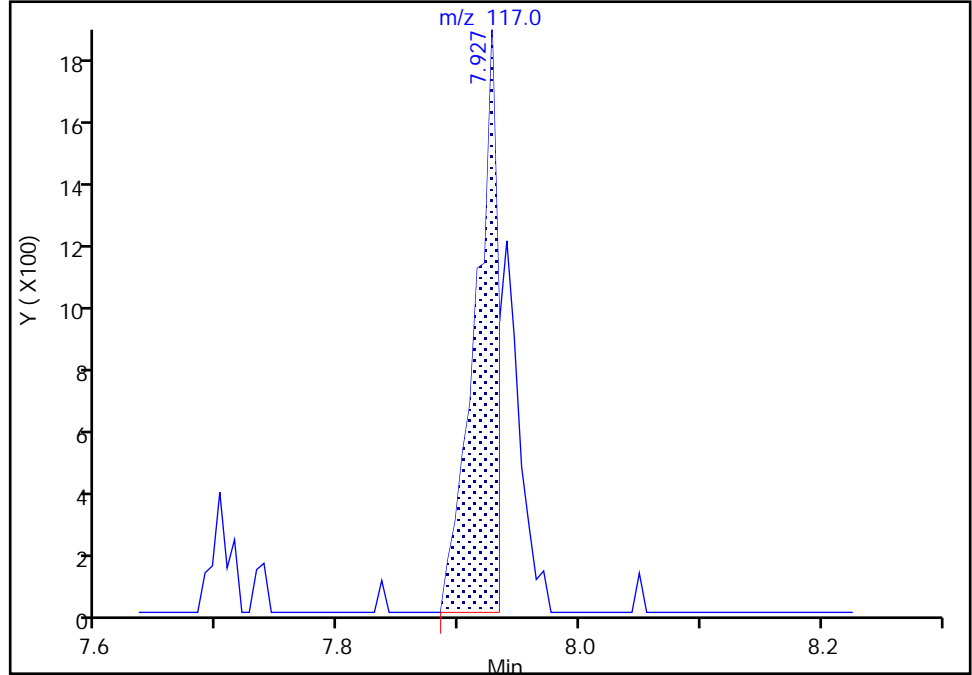
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

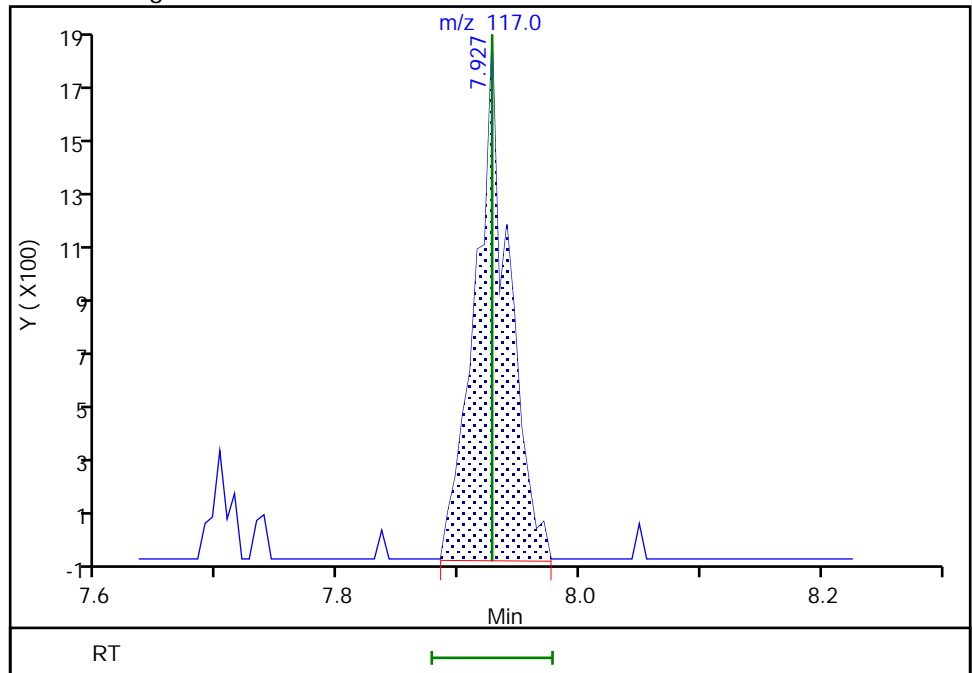
RT: 7.93  
Area: 2385  
Amount: 0.326337  
Amount Units: ug/L

Processing Integration Results



RT: 7.93  
Area: 3519  
Amount: 0.463520  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:42:32  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

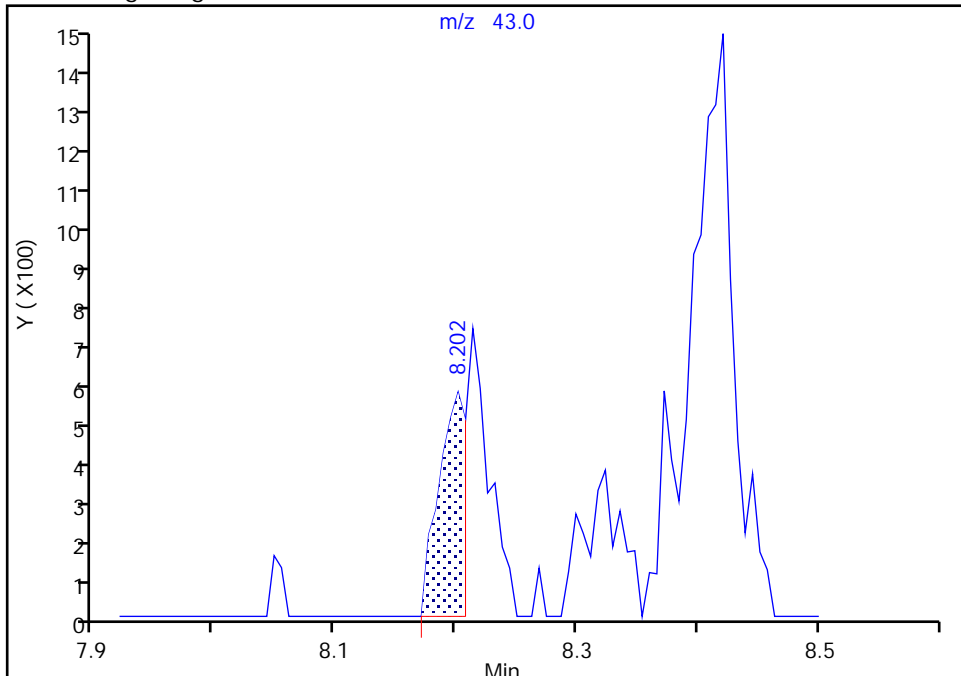
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

42 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

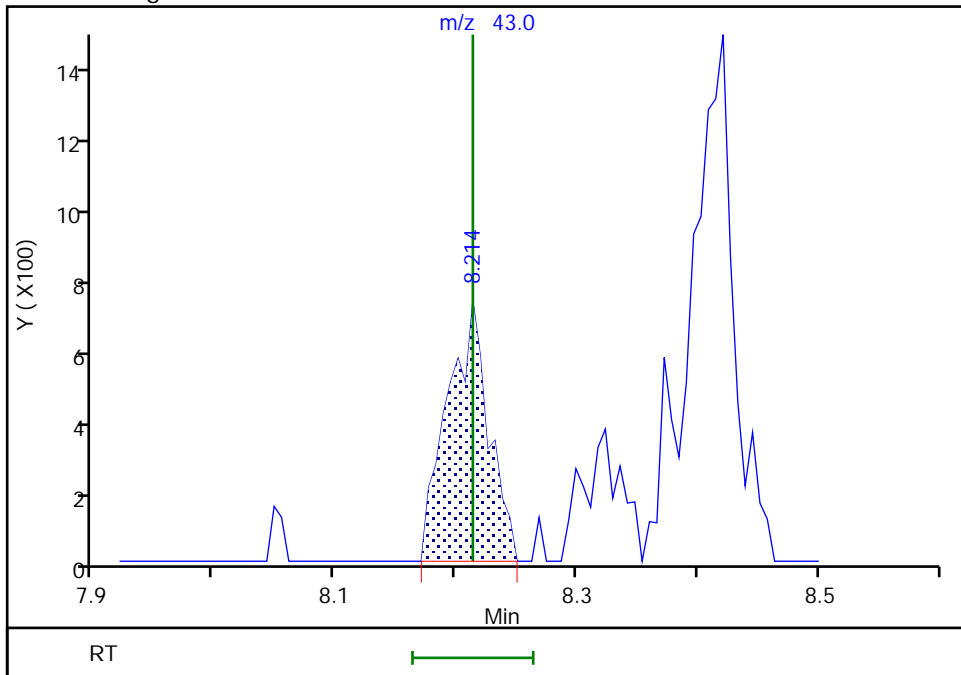
RT: 8.20  
Area: 860  
Amount: 6.443108  
Amount Units: ug/L

Processing Integration Results



RT: 8.21  
Area: 1649  
Amount: 10.504484  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:42:43  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

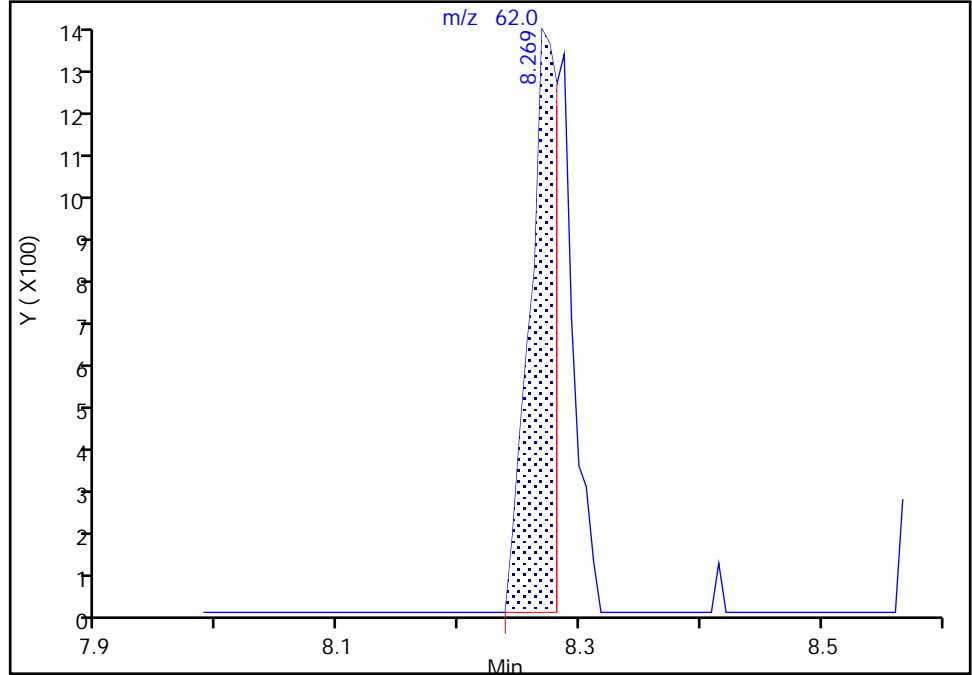
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

47 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

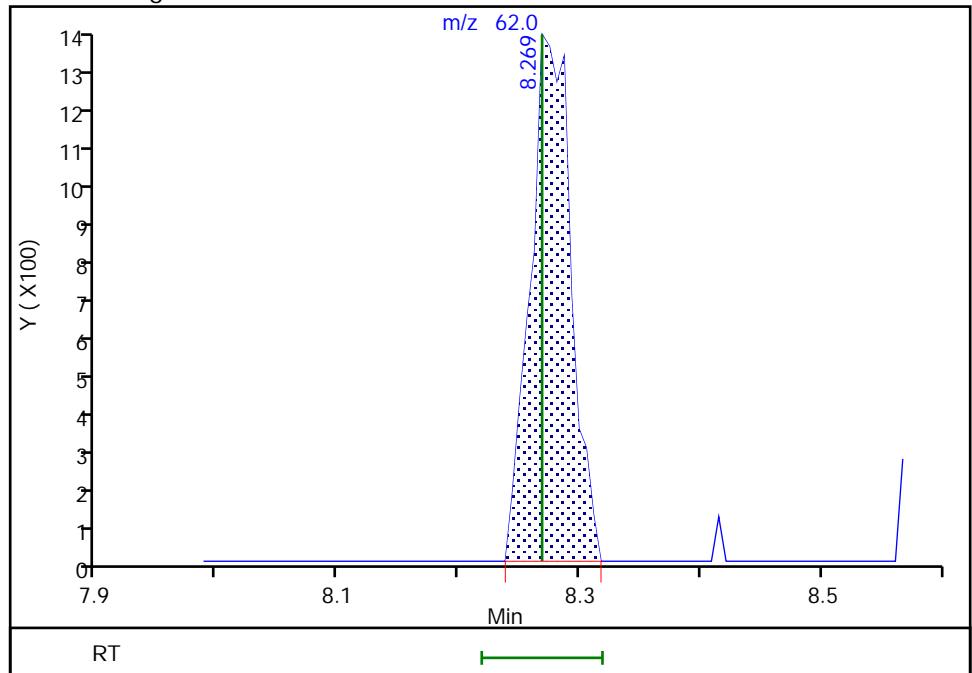
RT: 8.27  
Area: 2203  
Amount: 0.387466  
Amount Units: ug/L

Processing Integration Results



RT: 8.27  
Area: 3217  
Amount: 0.541659  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:43:01  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

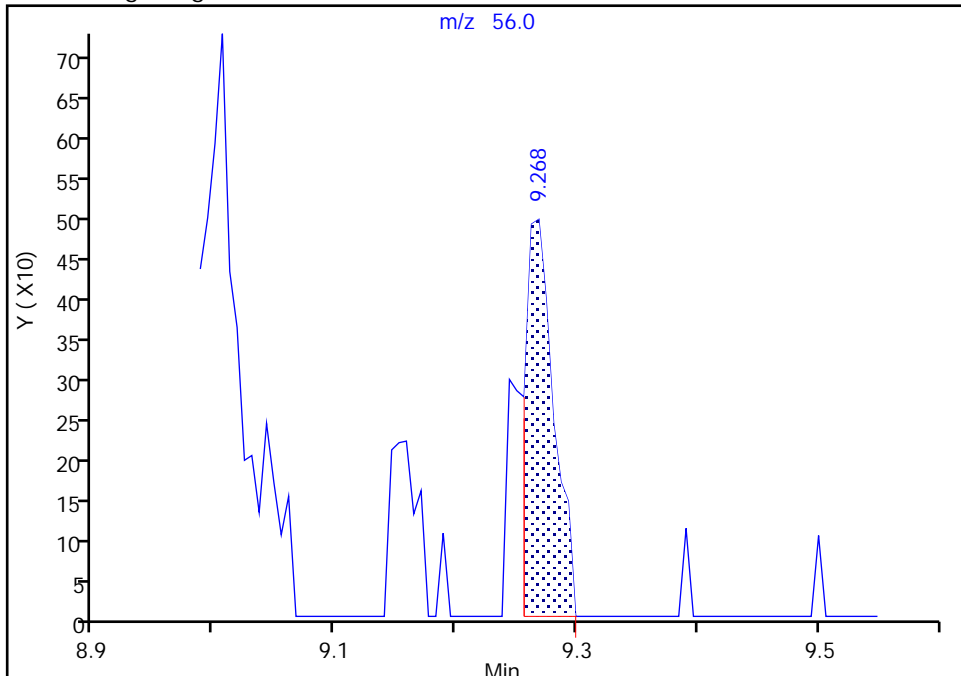
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

49 n-Butanol, CAS: 71-36-3

Signal: 1

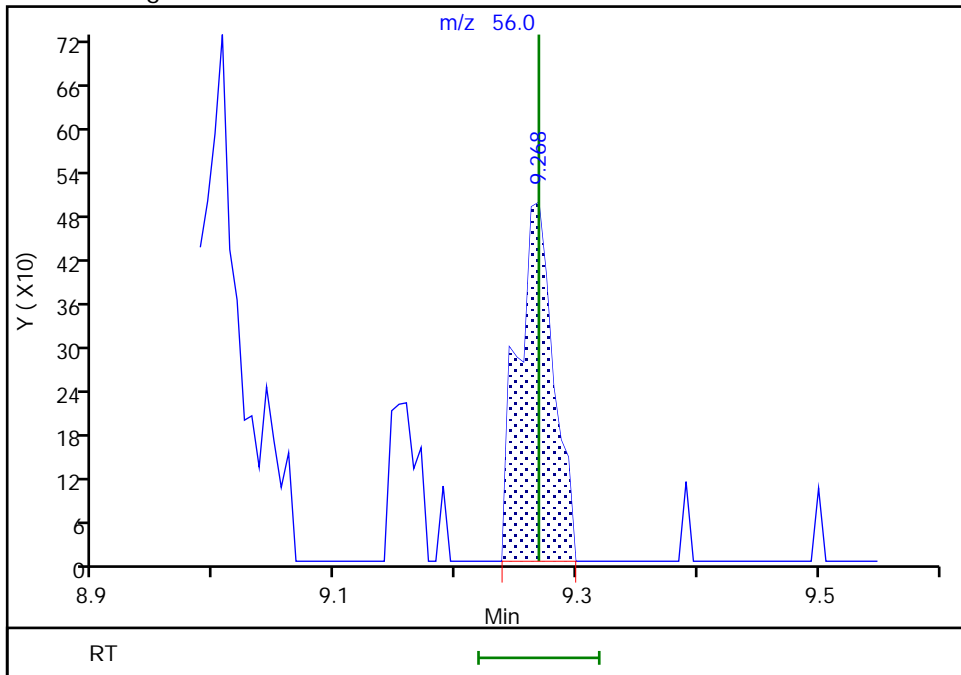
RT: 9.27  
Area: 808  
Amount: 11.489074  
Amount Units: ug/L

Processing Integration Results



RT: 9.27  
Area: 1019  
Amount: 12.545719  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:45:48  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

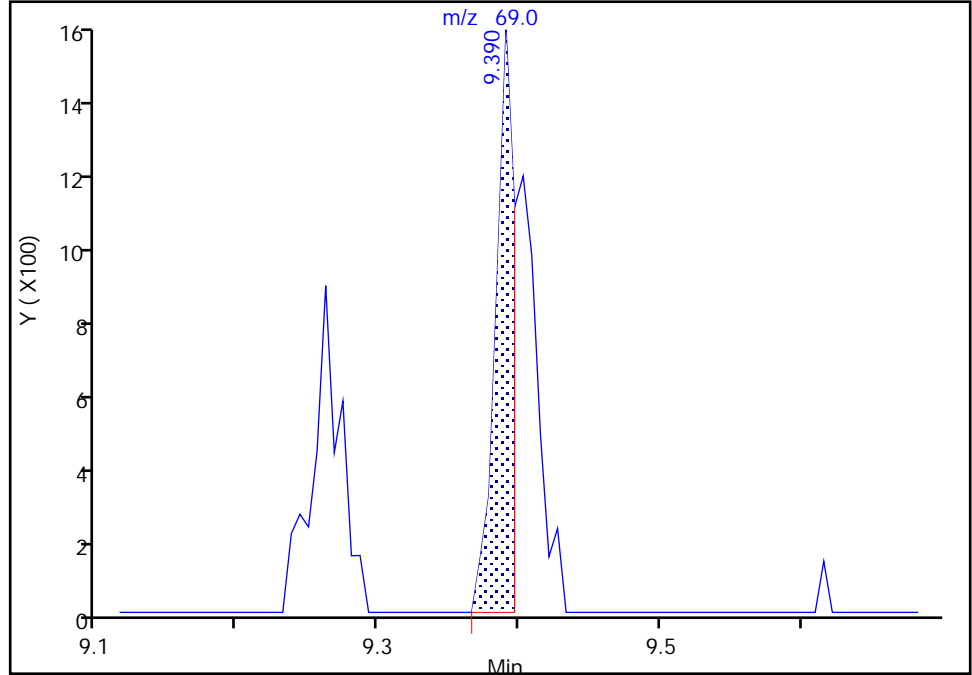
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

63 Methyl methacrylate, CAS: 80-62-6

Signal: 1

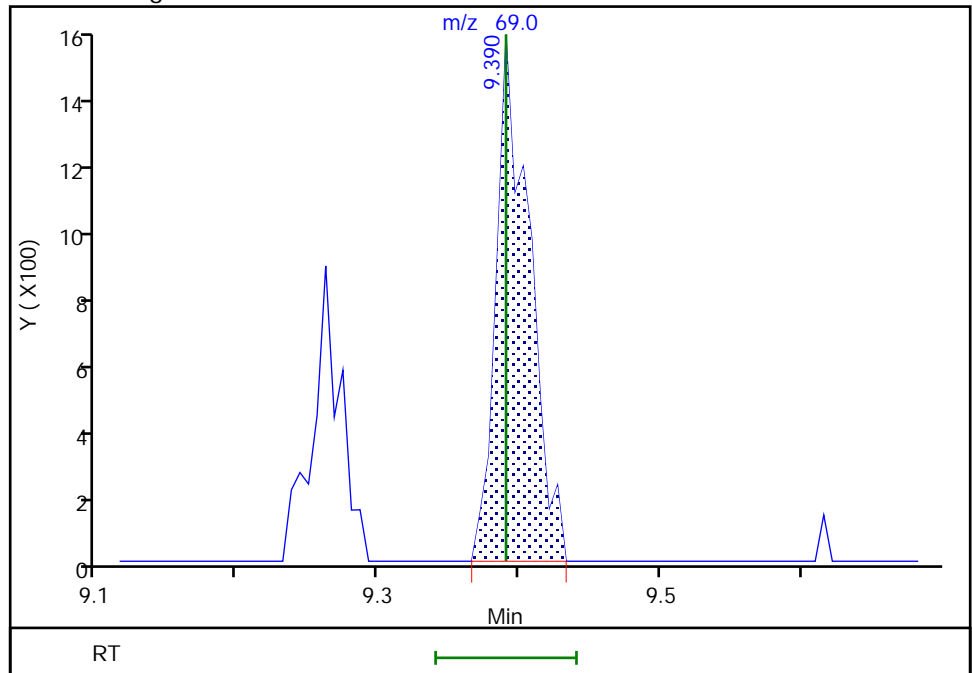
RT: 9.39  
Area: 1427  
Amount: 0.567554  
Amount Units: ug/L

Processing Integration Results



RT: 9.39  
Area: 2484  
Amount: 0.839102  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:46:17  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

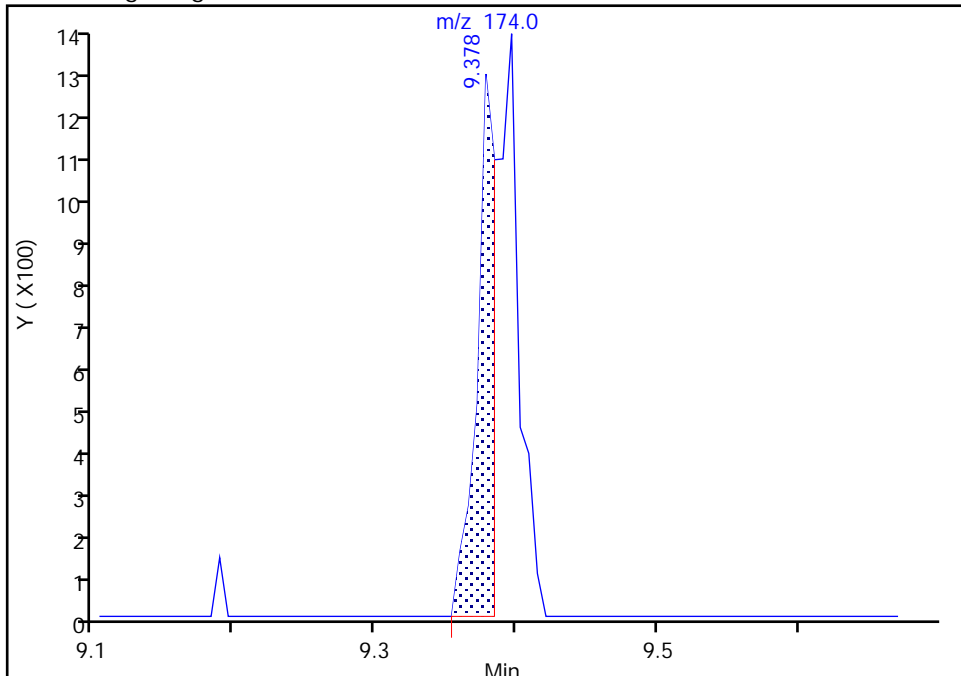
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

59 Dibromomethane, CAS: 74-95-3

Signal: 1

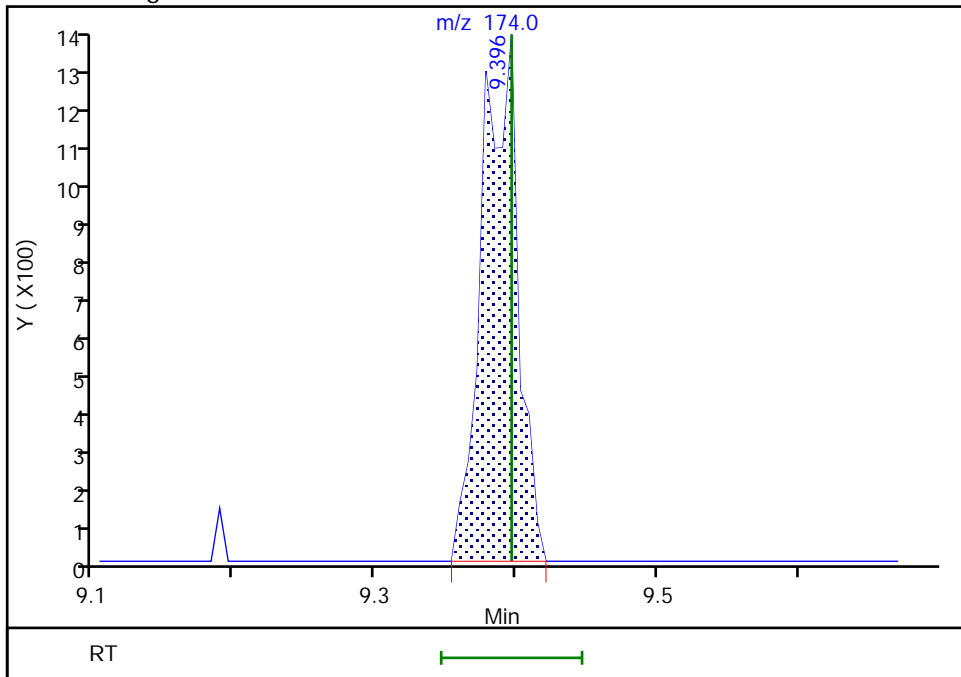
RT: 9.38  
Area: 1184  
Amount: 0.317283  
Amount Units: ug/L

Processing Integration Results



RT: 9.40  
Area: 2408  
Amount: 0.534653  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:46:08  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

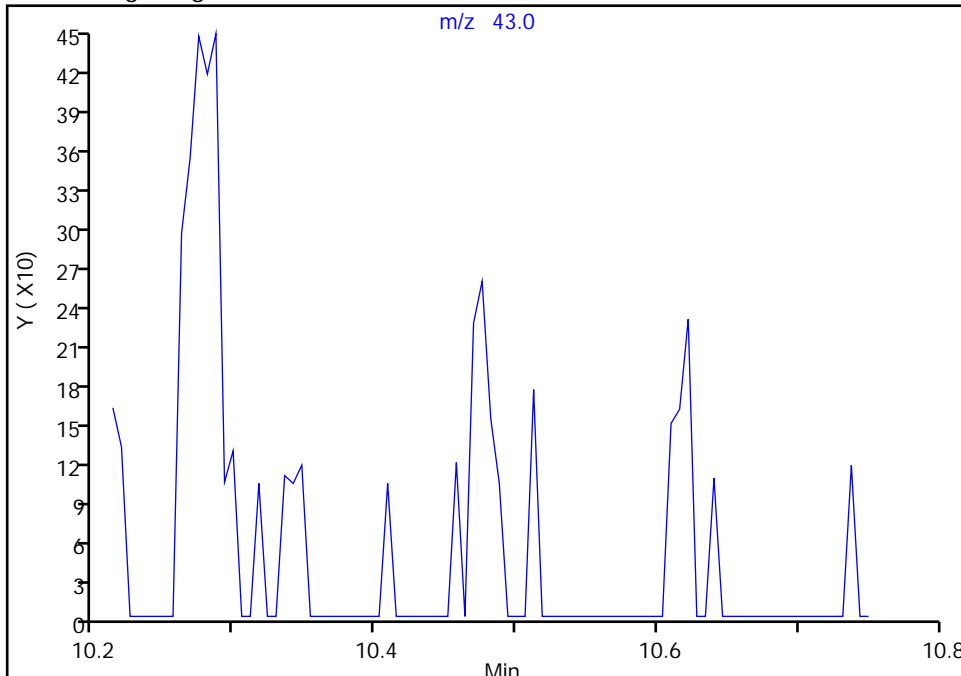
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

70 n-Butyl acetate, CAS: 123-86-4

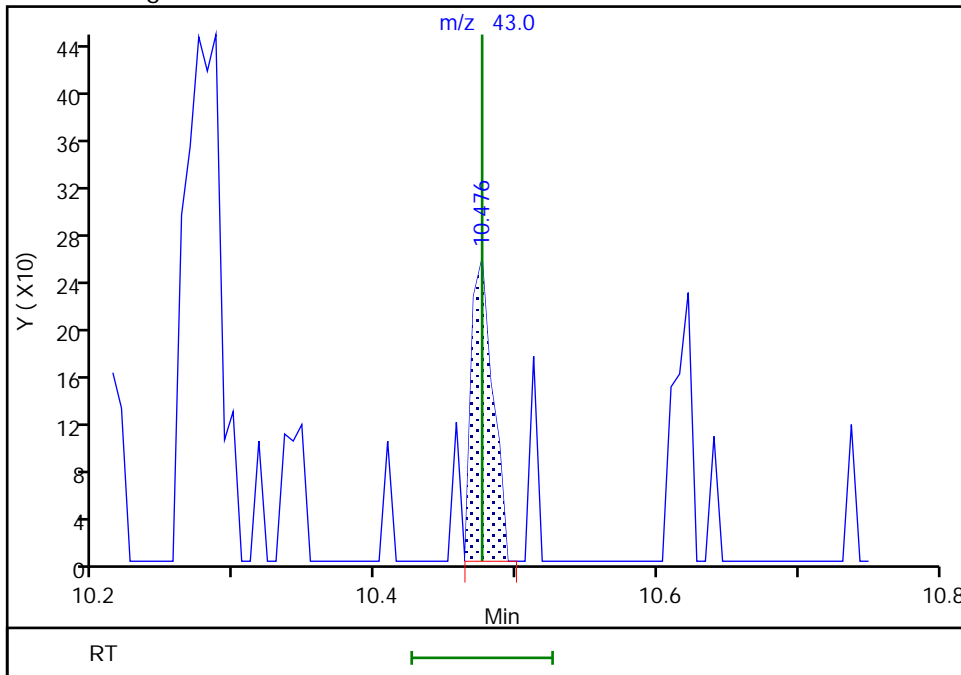
Signal: 1

Not Detected  
Expected RT: 10.48

Processing Integration Results



Manual Integration Results



RT: 10.48  
Area: 269  
Amount: 0.499275  
Amount Units: ug/L



Eurofins TestAmerica, Seattle

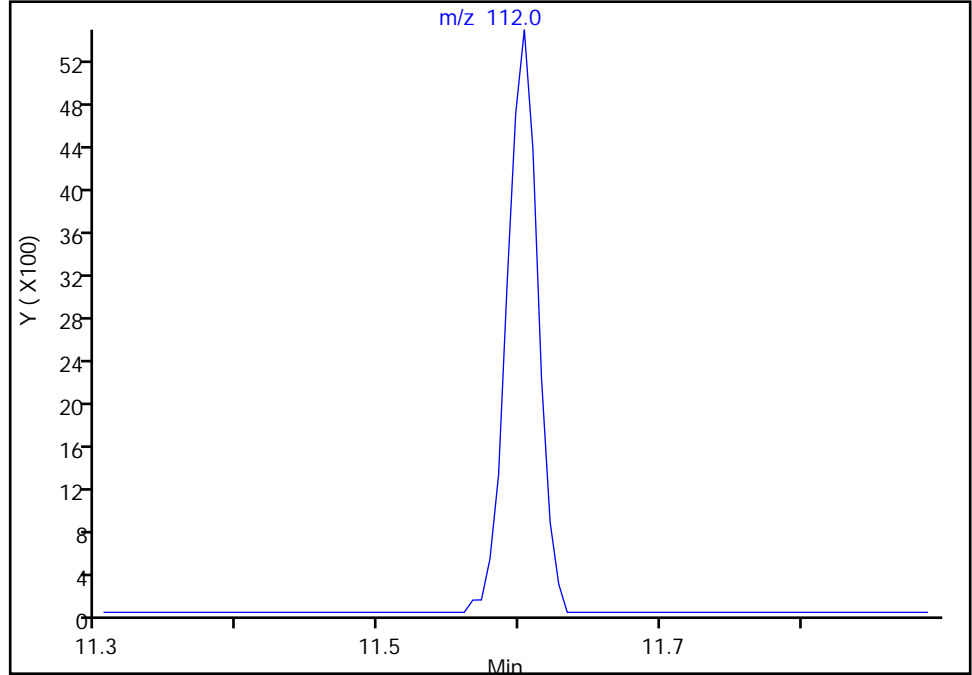
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

82 Chlorobenzene, CAS: 108-90-7

Signal: 1

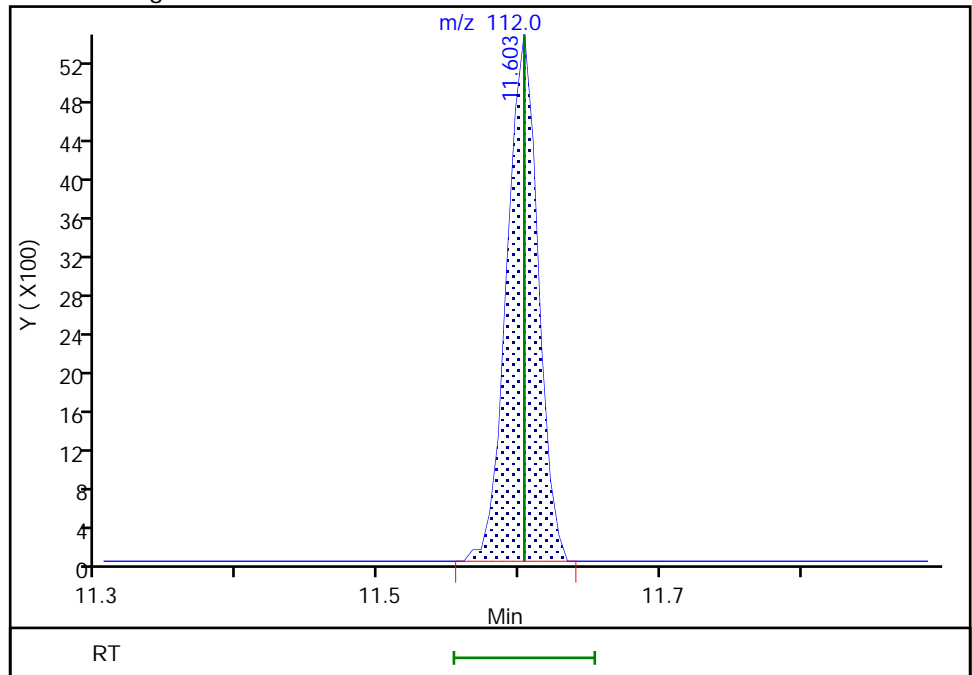
Not Detected  
Expected RT: 11.60

Processing Integration Results



Manual Integration Results

RT: 11.60  
Area: 8308  
Amount: 0.498594  
Amount Units: ug/L



Eurofins TestAmerica, Seattle

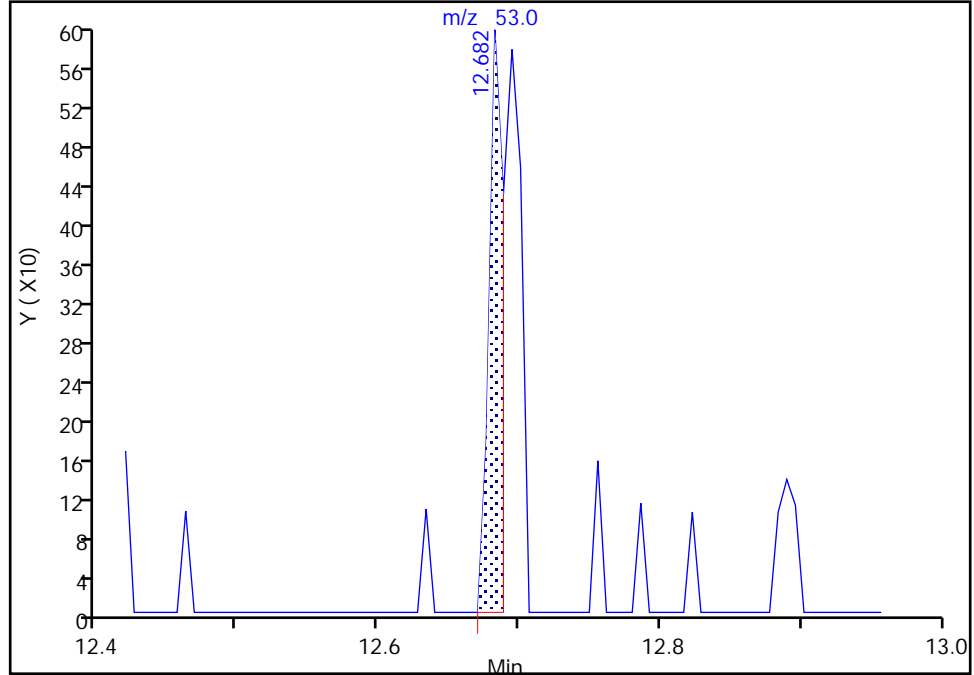
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

89 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

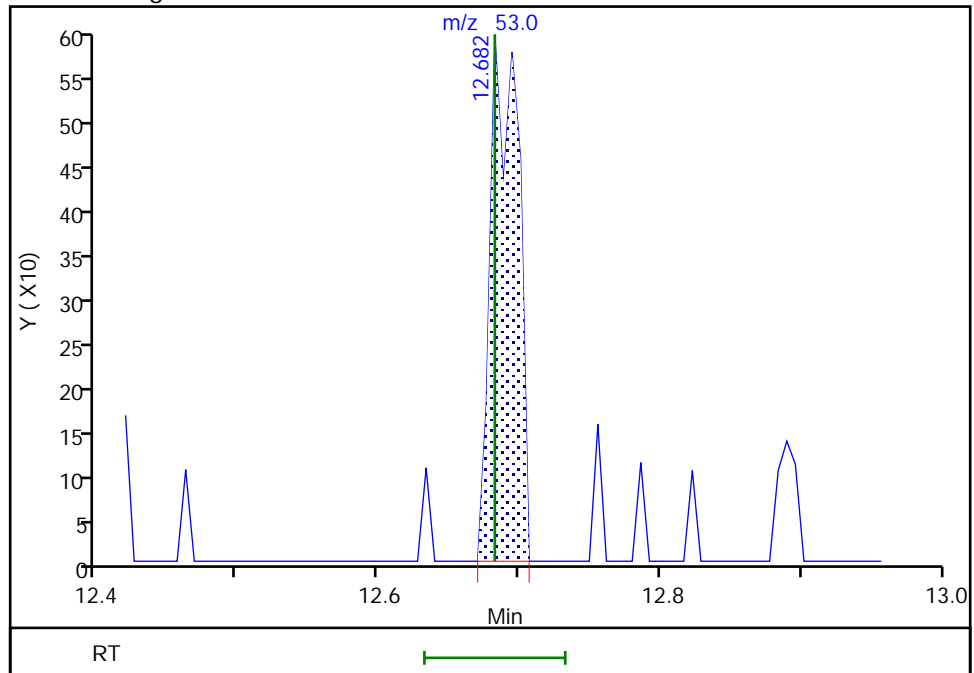
RT: 12.68  
Area: 436  
Amount: 0.343975  
Amount Units: ug/L

Processing Integration Results



RT: 12.68  
Area: 811  
Amount: 0.595761  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:47:25  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

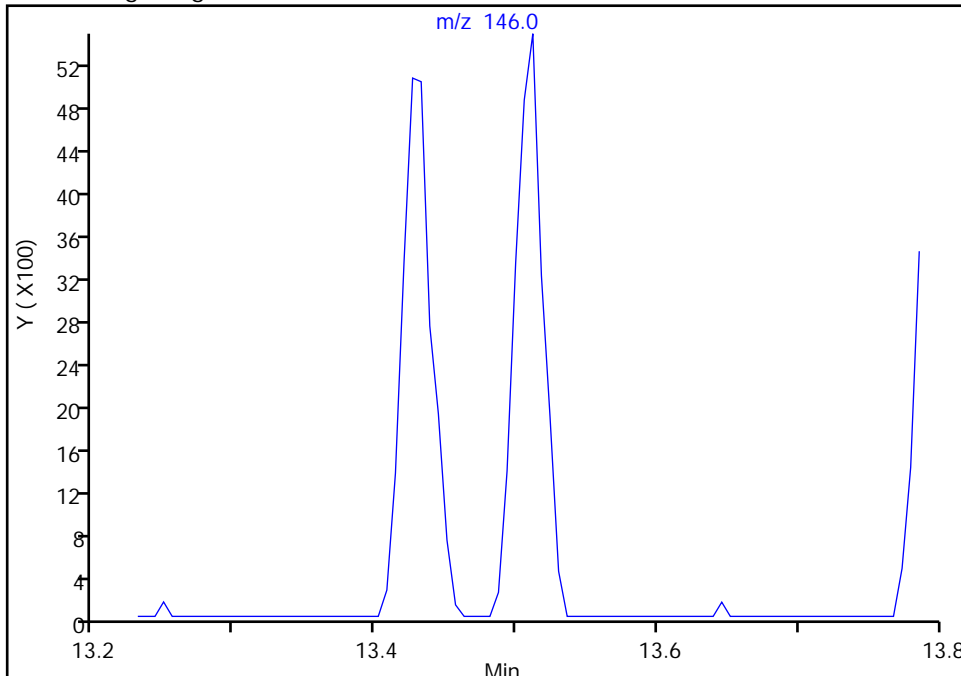
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_003.D  
Injection Date: 14-Jul-2020 15:42:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

104 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

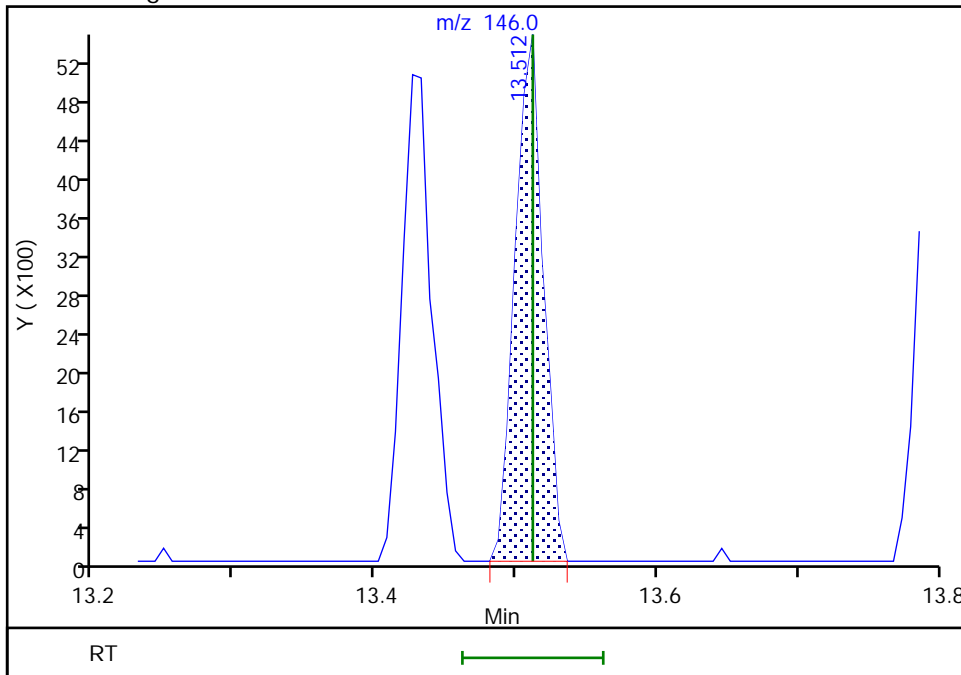
Not Detected  
Expected RT: 13.51

Processing Integration Results



Manual Integration Results

RT: 13.51  
Area: 7500  
Amount: 0.508175  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 14:47:49  
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 14-Jul-2020 16:08:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 0.1  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Jul-2020 10:15:01 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1065

First Level Reviewer: bohnc

Date: 14-Jul-2020 17:18:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.745	1.745	0.000	43	2199	1.00	0.8930	M
4 Chloromethane	50	1.971	1.971	0.000	84	3726	1.00	1.01	M
5 Vinyl chloride	62	2.081	2.081	0.000	55	3903	1.00	1.01	M
6 Butadiene	54	2.117	2.117	0.000	55	2716	1.00	0.9405	M
7 Bromomethane	94	2.477	2.477	0.000	41	3408	1.00	1.04	Ma
8 Chloroethane	66	2.593	2.593	0.000	40	764	1.00	0.8934	M
10 Dichlorofluoromethane	67	2.928	2.928	0.000	70	6739	1.00	1.01	M
14 Trichlorofluoromethane	101	2.959	2.959	0.000	65	6129	1.00	0.9277	M
11 3-Chloro-1-propene	76	2.965	2.965	0.000	1	503	1.00	1.40	M
17 Ethyl ether	59	3.343	3.343	0.000	71	2762	1.00	0.8620	
12 Acrolein	56	3.525	3.525	0.000	62	2759	6.00	5.76	M
19 1,1-Dichloroethene	96	3.696	3.696	0.000	55	3681	1.00	0.9280	M
16 Acetone	43	3.751	3.751	0.000	88	7923	5.00	6.27	Ma
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.751	3.751	0.000	21	4559	1.00	0.99	M
22 Iodomethane	142	3.903	3.903	0.000	67	7476	1.00	0.9083	M
26 Carbon disulfide	76	4.031	4.031	0.000	87	12220	1.00	0.9529	M
S 2 Xylenes, Total	100				0			1.76	
15 Isopropyl alcohol	45	4.074	4.074	0.000	52	2366	10.0	12.7	M
24 Methyl acetate	43	4.318	4.318	0.000	70	5406	2.00	1.87	M
23 Methylene Chloride	84	4.562	4.562	0.000	62	7174	1.00	1.11	M
* 18 TBA-d9 (IS)	65	4.659	4.659	0.000	0	86135	200.0	200.0	
20 2-Methyl-2-propanol	59	4.812	4.812	0.000	67	4528	10.0	10.8	M
21 Acrylonitrile	53	4.995	4.995	0.000	87	11092	10.0	9.38	M
28 Methyl tert-butyl ether	73	5.086	5.086	0.000	67	11093	1.00	0.8734	M
27 trans-1,2-Dichloroethene	96	5.074	5.074	0.000	65	4437	1.00	0.8331	
34 Hexane	57	5.653	5.653	0.000	75	6852	1.00	1.00	M
30 1,1-Dichloroethane	63	5.909	5.909	0.000	56	7903	1.00	0.9891	
31 Vinyl acetate	86	5.995	5.995	0.000	96	1576	2.50	4.19	M
32 2-Chloro-1,3-butadiene	53	6.043	6.043	0.000	64	5799	1.00	0.8369	M
35 Isopropyl ether	45	6.055	6.055	0.000	56	13048	1.25	1.06	
41 Tert-butyl ethyl ether	87	6.702	6.702	0.000	82	6775	1.25	1.07	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.915	6.915	0.000	58	5753	1.00	0.9765	M
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	46	5267	1.00	0.8811	
33 2-Butanone (MEK)	72	6.933	6.946	-0.013	88	1449	5.00	2.54	M
29 Propionitrile	54	7.019	7.019	0.000	75	4675	12.5	9.44	
38 Ethyl acetate	43	7.067	7.067	0.000	85	6015	2.00	1.75	
36 Methacrylonitrile	67	7.275	7.275	0.000	84	14432	10.0	8.19	Ma
39 Chlorobromomethane	130	7.299	7.299	0.000	49	3694	1.00	0.8859	M
40 Chloroform	83	7.506	7.506	0.000	67	8135	1.00	0.9049	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	56	7152	1.00	0.8899	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.738	0.000	68	52975	10.0	10.0	
51 Cyclohexane	84	7.799	7.799	0.000	66	7128	1.00	0.9254	
52 Carbon tetrachloride	117	7.921	7.921	0.000	78	7065	1.00	0.9166	
50 1,1-Dichloropropene	75	7.945	7.945	0.000	80	6626	1.00	0.9315	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	47857	10.0	9.82	
53 Benzene	78	8.195	8.195	0.000	88	19802	1.00	0.9247	
42 Isobutyl alcohol	43	8.214	8.214	0.000	37	3236	25.0	22.6	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	82	5270	1.00	0.8740	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	92	13159	1.25	1.03	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	100	214099	10.0	10.0	
56 n-Heptane	43	8.628	8.628	0.000	61	6412	1.00	0.9751	
45 Tetrahydrofuran	42	8.628	8.628	0.000	1	1543	2.00	1.79	
61 Trichloroethene	132	9.018	9.018	0.000	77	6671	1.00	0.9499	
57 Ethyl acrylate	55	9.159	9.159	0.000	77	3782	1.00	0.8144	
49 n-Butanol	56	9.268	9.268	0.000	29	1680	25.0	20.4	
66 Methylcyclohexane	83	9.268	9.268	0.000	79	8813	1.00	0.8965	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	72	4085	1.00	0.8780	
63 Methyl methacrylate	69	9.402	9.402	0.000	75	4587	2.00	1.53	
59 Dibromomethane	174	9.390	9.390	0.000	65	3963	1.00	0.8667	
62 Dichlorobromomethane	83	9.585	9.585	0.000	79	6295	1.00	0.9379	
58 2-Nitropropane	43	9.799	9.799	0.000	84	2045	2.00	1.72	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	63	1615	1.00	0.99	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	73	6312	1.00	0.8376	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	87	6268	5.00	3.87	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	92	213160	10.0	9.89	
74 Toluene	91	10.341	10.341	0.000	89	23124	1.00	0.9229	
70 n-Butyl acetate	43	10.475	10.475	0.000	48	636	1.00	1.16	M
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	85	5615	1.00	0.8314	
73 Ethyl methacrylate	69	10.622	10.622	0.000	48	3855	1.00	0.7964	
71 1,1,2-Trichloroethane	97	10.738	10.738	0.000	67	4393	1.00	0.9552	
79 Tetrachloroethene	164	10.823	10.823	0.000	81	5957	1.00	0.9187	
75 1,3-Dichloropropane	76	10.878	10.878	0.000	77	6081	1.00	0.8660	
76 2-Hexanone	58	10.933	10.933	0.000	75	5934	5.00	3.72	
77 Chlorodibromomethane	129	11.079	11.079	0.000	72	4431	1.00	0.7856	
78 Ethylene Dibromide	107	11.170	11.170	0.000	70	3917	1.00	0.8628	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	83	180845	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	86	15603	1.00	0.9222	a
80 1,1,1,2-Tetrachloroethane	131	11.682	11.682	0.000	32	5474	1.00	0.9029	
83 Ethylbenzene	91	11.689	11.689	0.000	98	24474	1.00	0.9071	
84 m-Xylene & p-Xylene	91	11.798	11.798	0.000	0	18352	1.00	0.9137	
88 o-Xylene	91	12.115	12.115	0.000	88	16743	1.00	0.8478	
86 Styrene	104	12.134	12.134	0.000	93	14616	1.00	0.8903	
85 Bromoform	173	12.292	12.292	0.000	76	3588	1.00	0.8444	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
91 Isopropylbenzene	105	12.414	12.414	0.000	87	22743	1.00	0.8560	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	95	84417	10.0	9.76	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	76	4607	1.00	0.8866	
93 Bromobenzene	156	12.682	12.682	0.000	79	7765	1.00	0.9649	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	46	1091	1.00	0.7830	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	15	1834	1.00	0.9699	
94 N-Propylbenzene	91	12.749	12.749	0.000	93	25818	1.00	0.8556	
95 2-Chlorotoluene	126	12.829	12.829	0.000	94	6240	1.00	0.8864	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	88	17915	1.00	0.8356	
96 4-Chlorotoluene	126	12.926	12.926	0.000	73	6683	1.00	0.9339	
98 tert-Butylbenzene	119	13.152	13.152	0.000	80	16931	1.00	0.8421	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	53	17066	1.00	1.13	
100 sec-Butylbenzene	105	13.322	13.322	0.000	83	25346	1.00	0.8719	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	90	13907	1.00	0.9266	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	94	20688	1.00	0.7983	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	90	102052	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	77	14050	1.00	0.9301	a
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	28	18401	1.00	0.8509	
101 Benzyl chloride	126	13.591	13.591	0.000	78	2044	1.00	0.8685	
108 n-Butylbenzene	134	13.767	13.767	0.000	90	5755	1.00	0.8281	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	86	12269	1.00	0.8807	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.401	0.000	36	1257	1.00	0.9420	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	89	11694	1.00	0.9494	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	79	9584	1.00	0.9528	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	83	7623	1.00	1.06	
112 Naphthalene	128	15.249	15.249	0.000	91	17606	1.00	1.06	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	81	9176	1.00	1.03	

### QC Flag Legend

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 0.10

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D

Injection Date: 14-Jul-2020 16:08:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 4

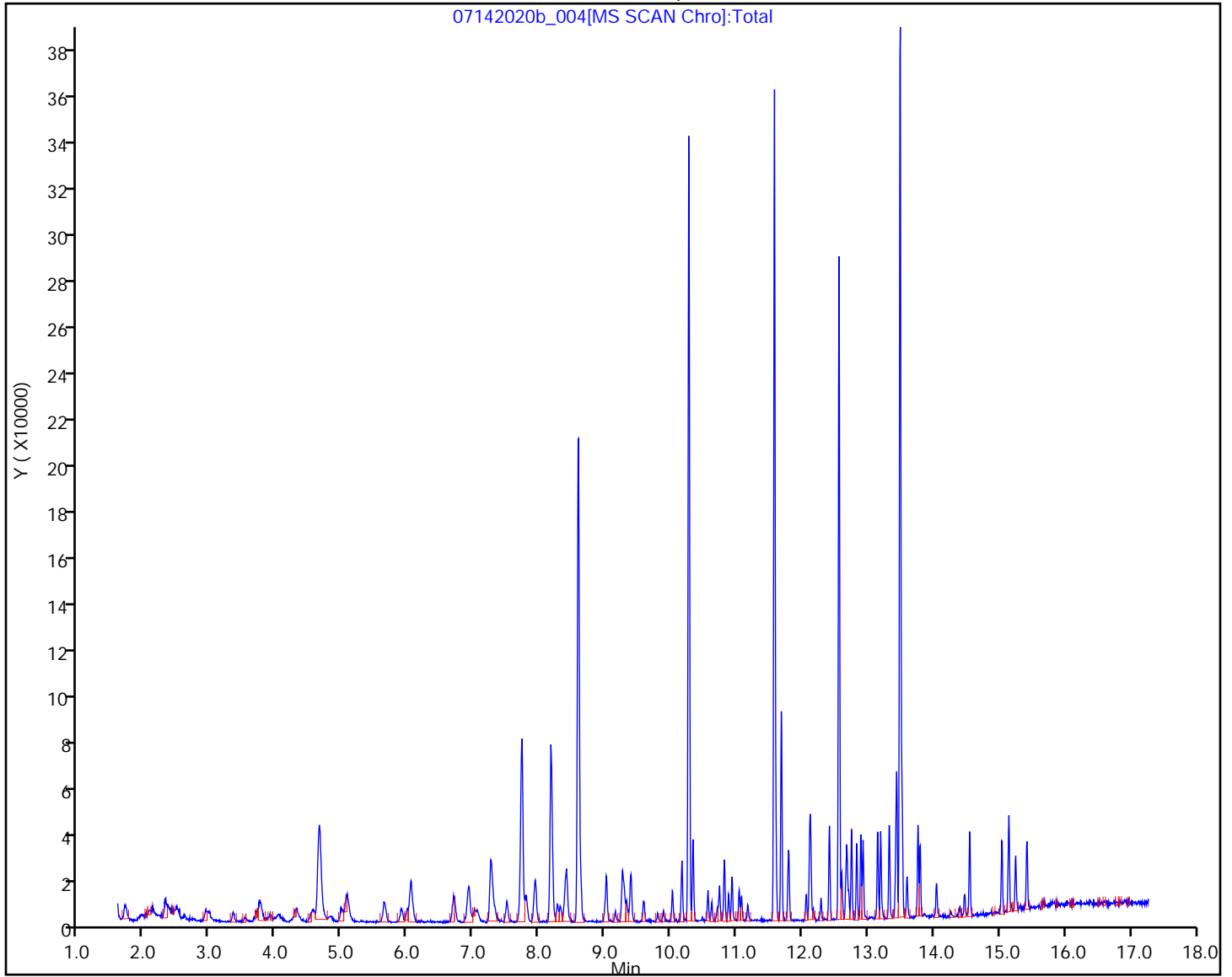
Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

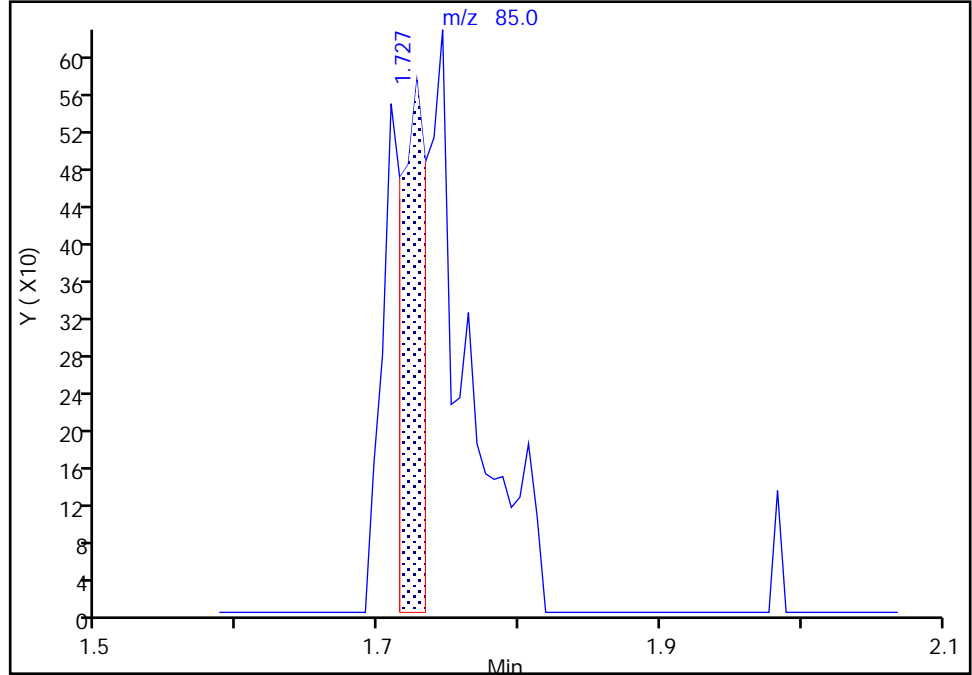
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Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

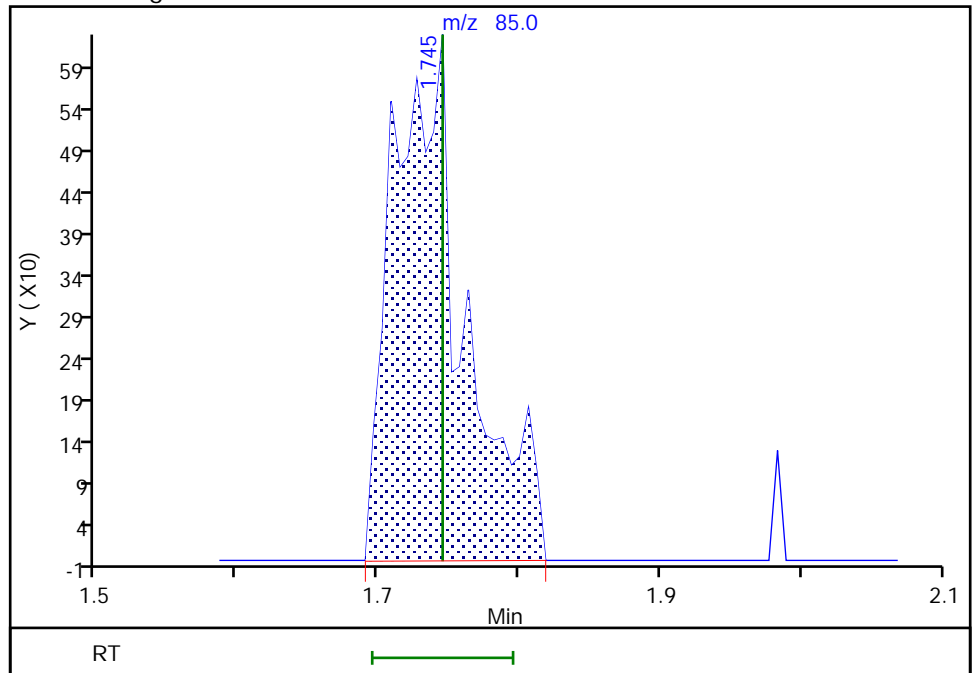
RT: 1.73  
Area: 728  
Amount: 0.368934  
Amount Units: ug/L

Processing Integration Results



RT: 1.75  
Area: 2199  
Amount: 0.893004  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:48:38  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

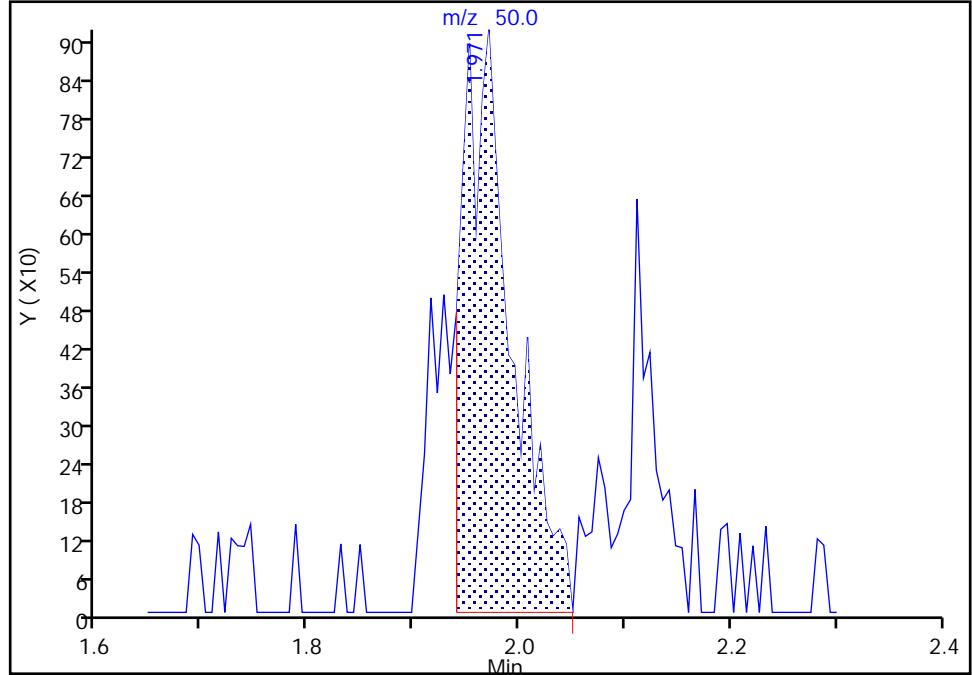
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Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Signal: 1

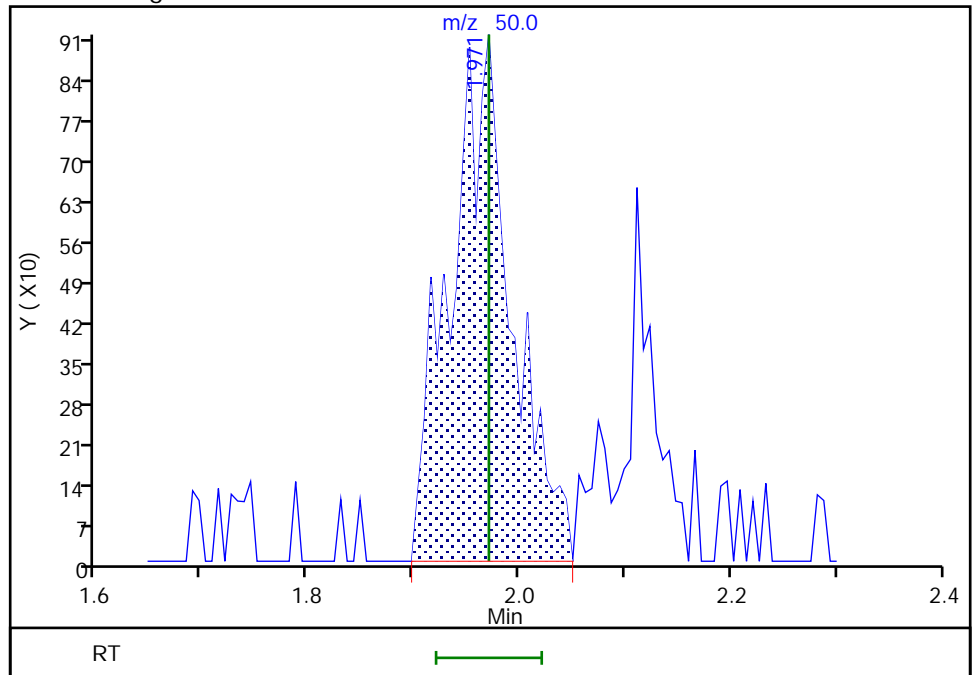
RT: 1.97  
Area: 2960  
Amount: 0.813276  
Amount Units: ug/L

Processing Integration Results



RT: 1.97  
Area: 3726  
Amount: 1.008814  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:48:50  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

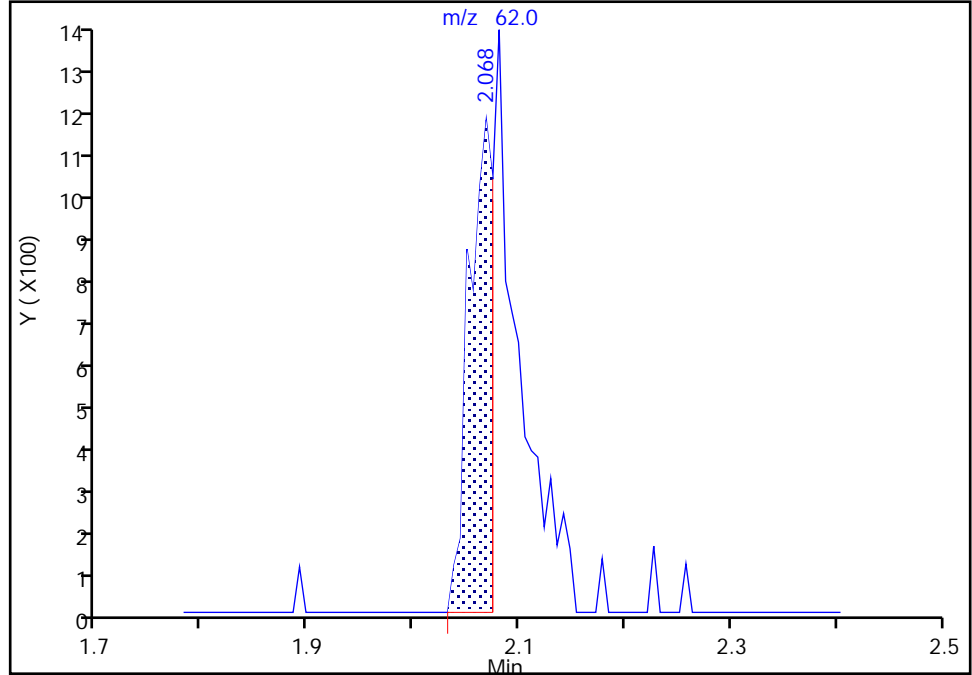
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

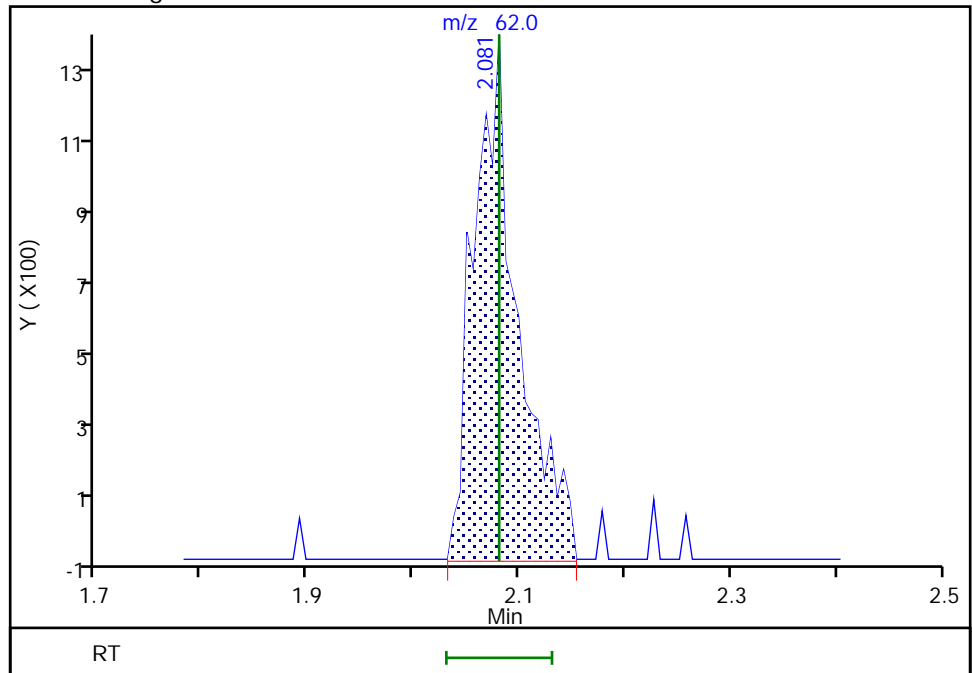
RT: 2.07  
Area: 1818  
Amount: 0.503123  
Amount Units: ug/L

Processing Integration Results



RT: 2.08  
Area: 3903  
Amount: 1.007472  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:49:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

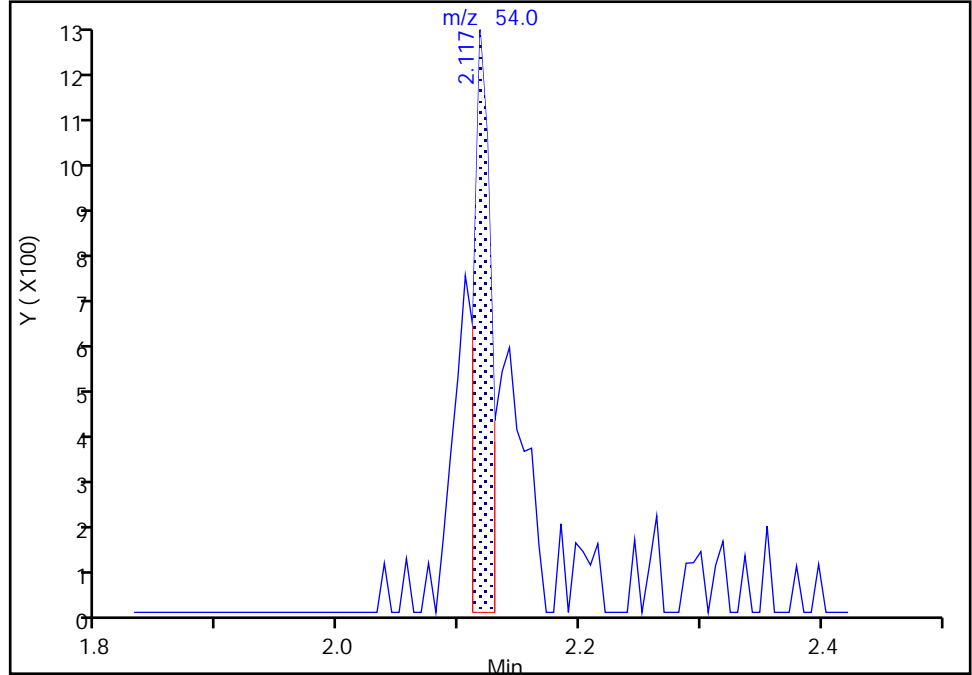
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

6 Butadiene, CAS: 106-99-0

Signal: 1

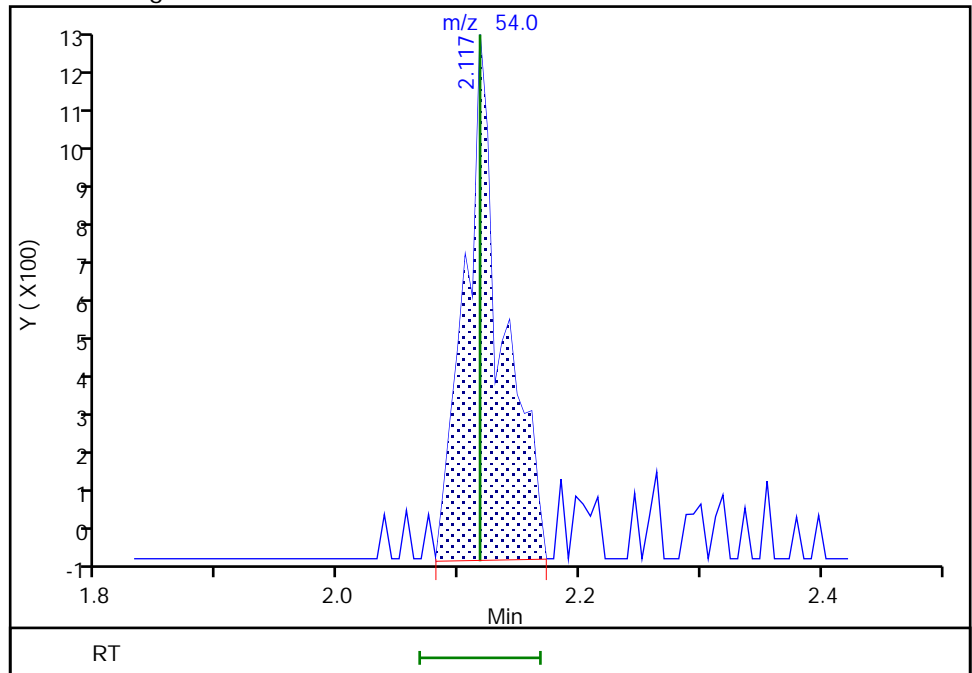
RT: 2.12  
Area: 1210  
Amount: 0.461934  
Amount Units: ug/L

Processing Integration Results



RT: 2.12  
Area: 2716  
Amount: 0.940464  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:49:13  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

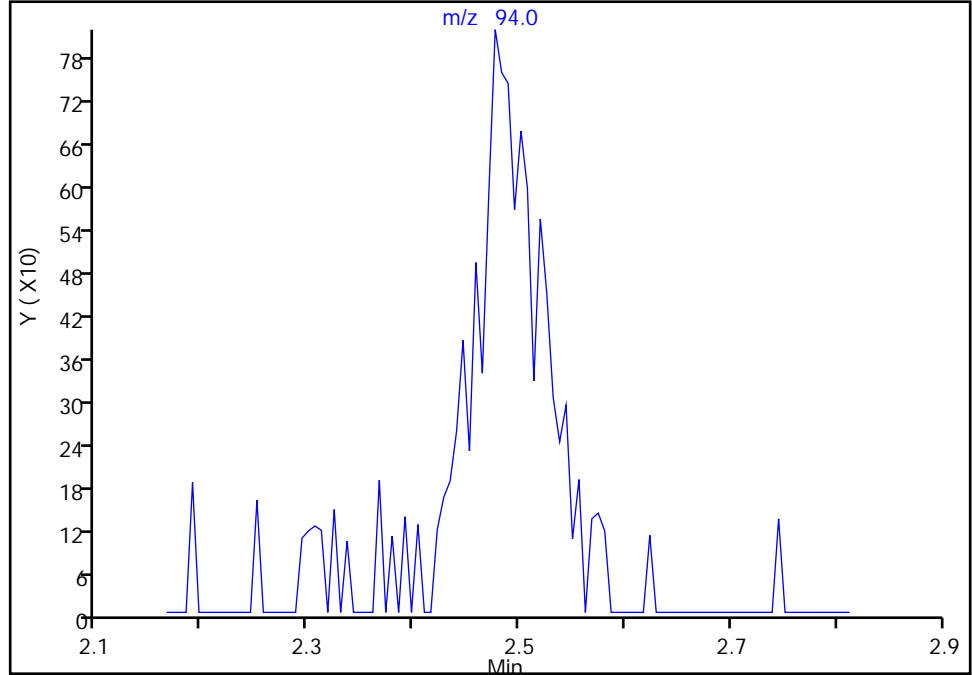
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

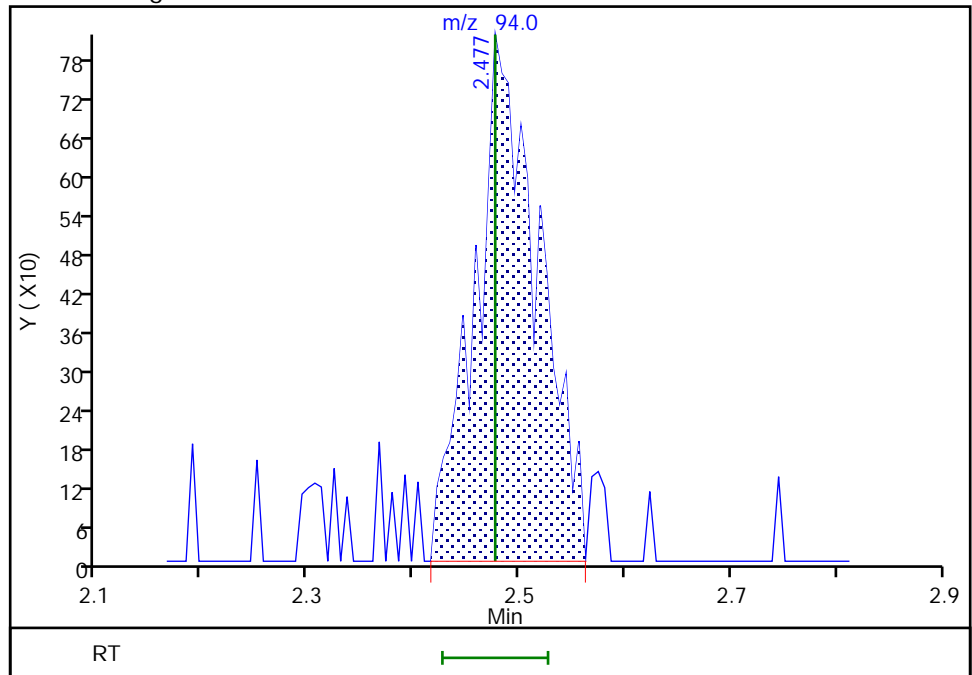
Not Detected  
Expected RT: 2.48

Processing Integration Results



Manual Integration Results

RT: 2.48  
Area: 3408  
Amount: 1.036732  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 14:49:27  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Seattle

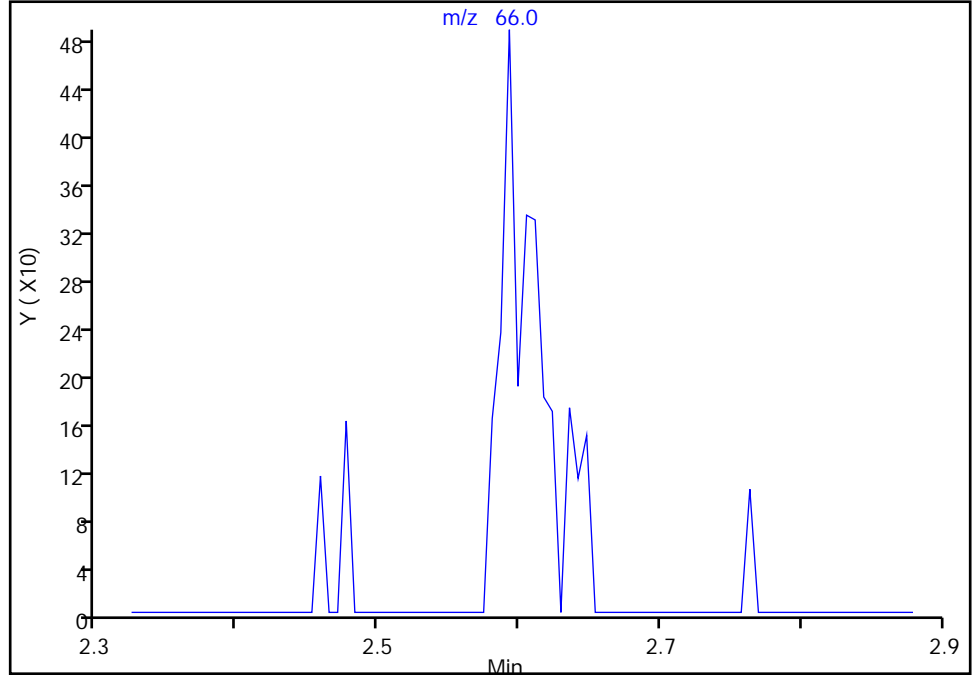
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Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Signal: 1

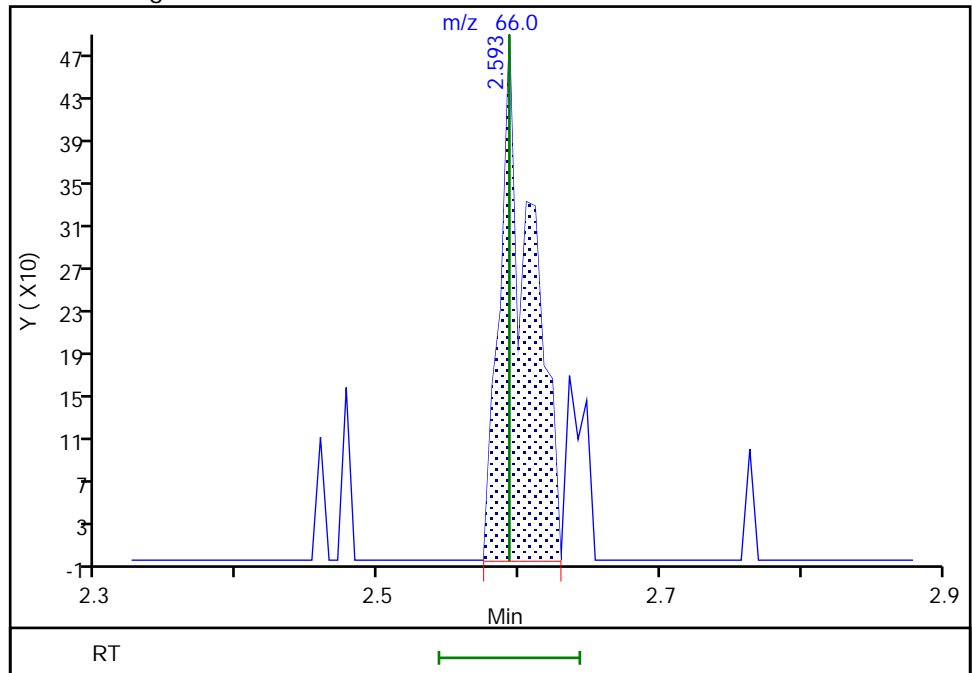
Not Detected  
Expected RT: 2.59

Processing Integration Results



Manual Integration Results

RT: 2.59  
Area: 764  
Amount: 0.893405  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 14:49:39  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Seattle

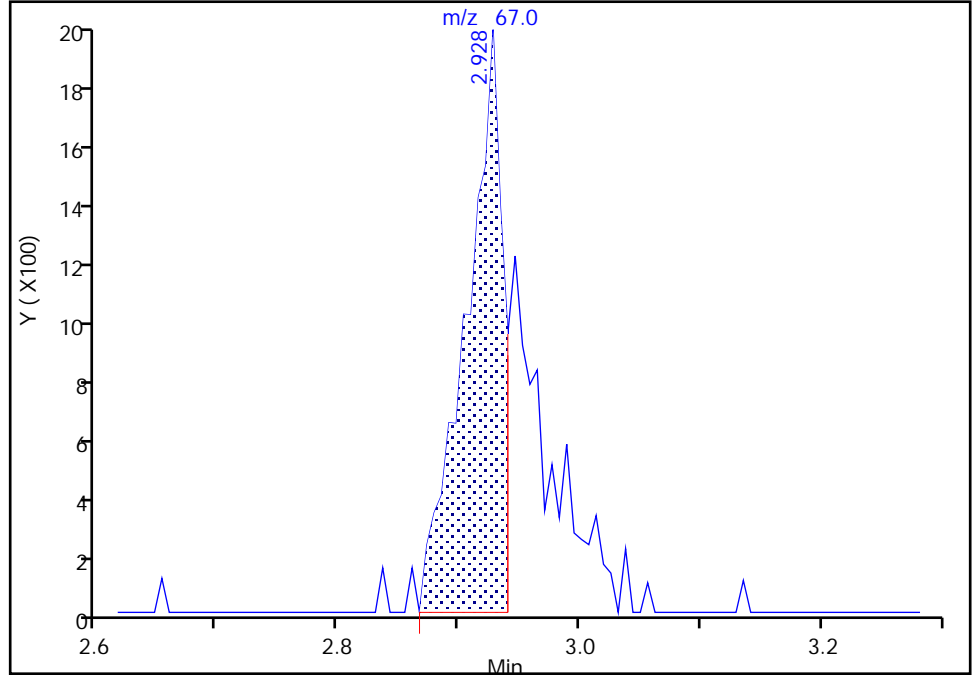
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Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

10 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

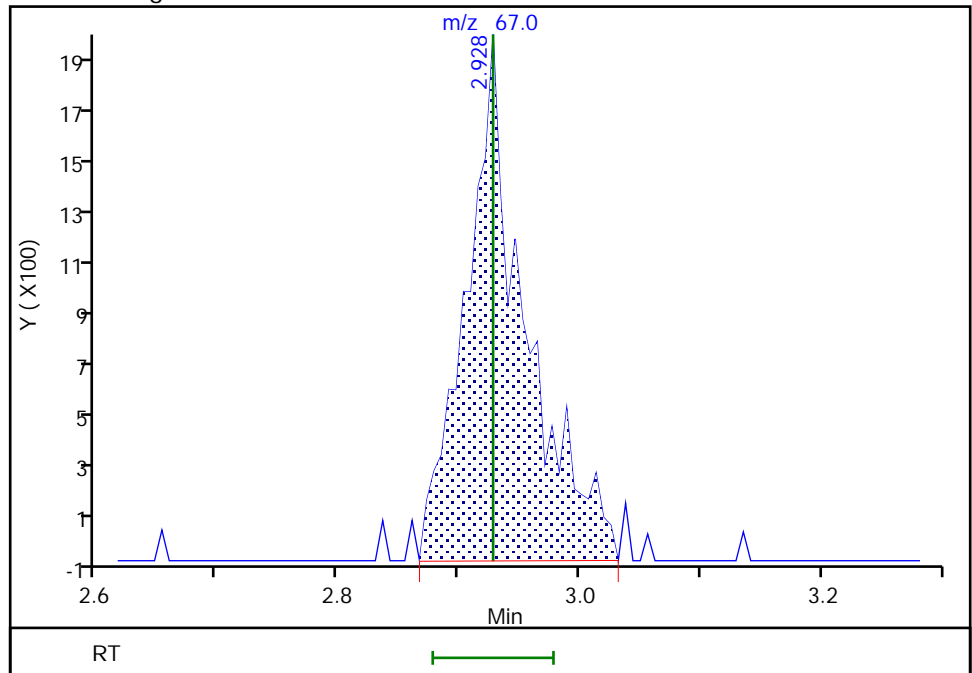
RT: 2.93  
Area: 4224  
Amount: 0.662083  
Amount Units: ug/L

Processing Integration Results



RT: 2.93  
Area: 6739  
Amount: 1.006687  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:49:48  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

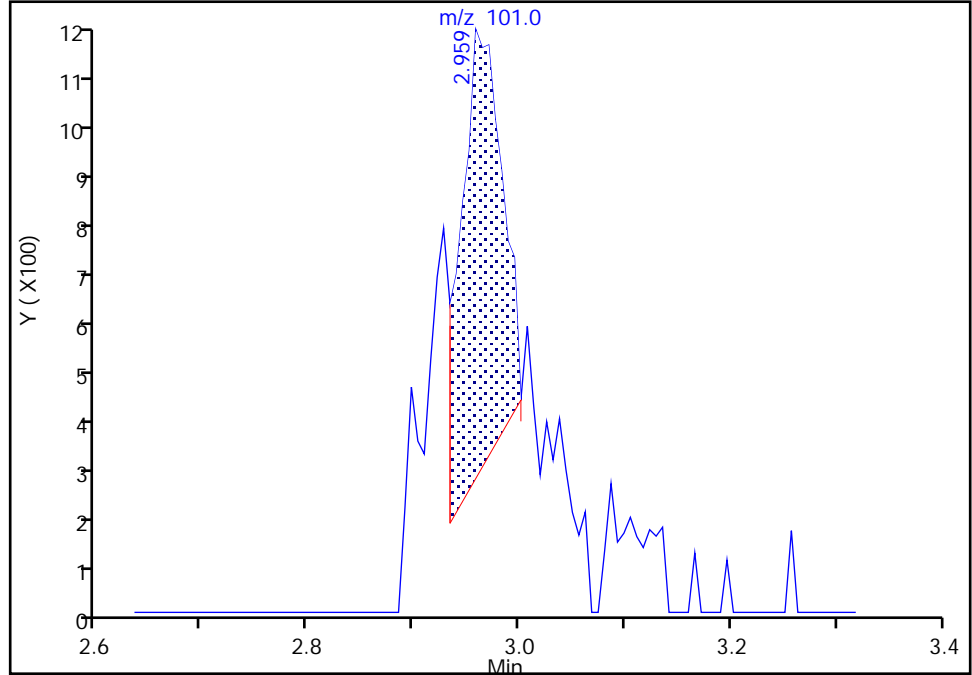
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Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

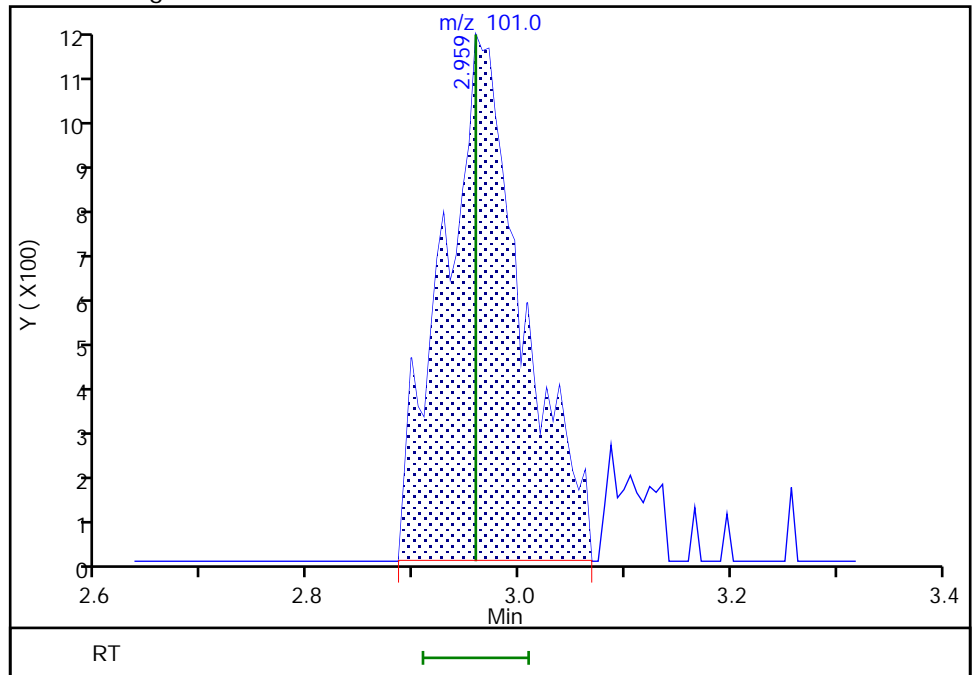
RT: 2.96  
Area: 2438  
Amount: 0.522868  
Amount Units: ug/L

Processing Integration Results



RT: 2.96  
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Amount: 0.927723  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

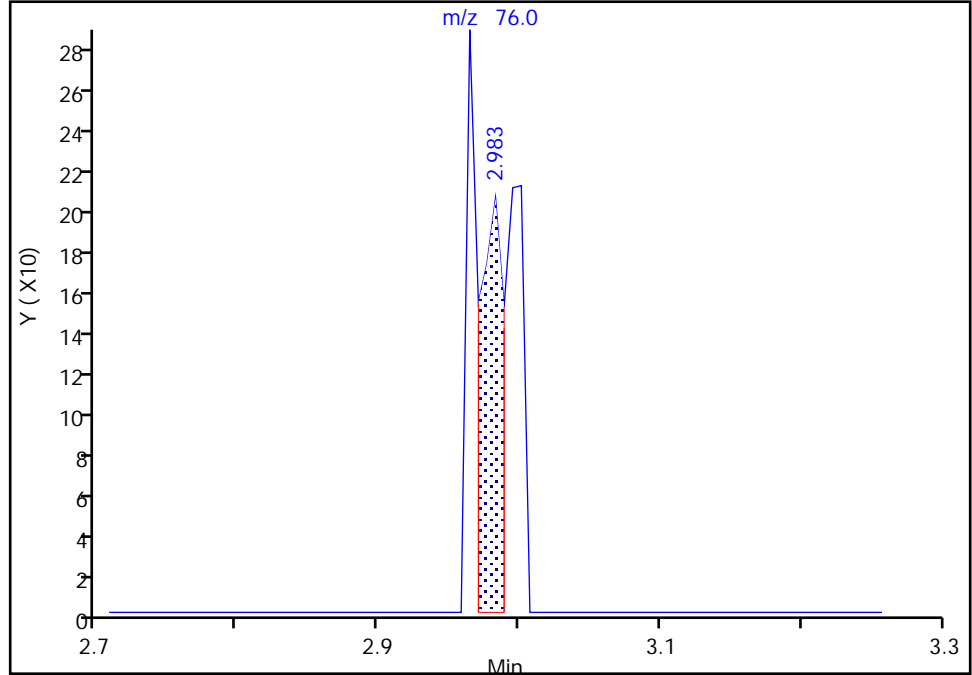
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Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

11 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

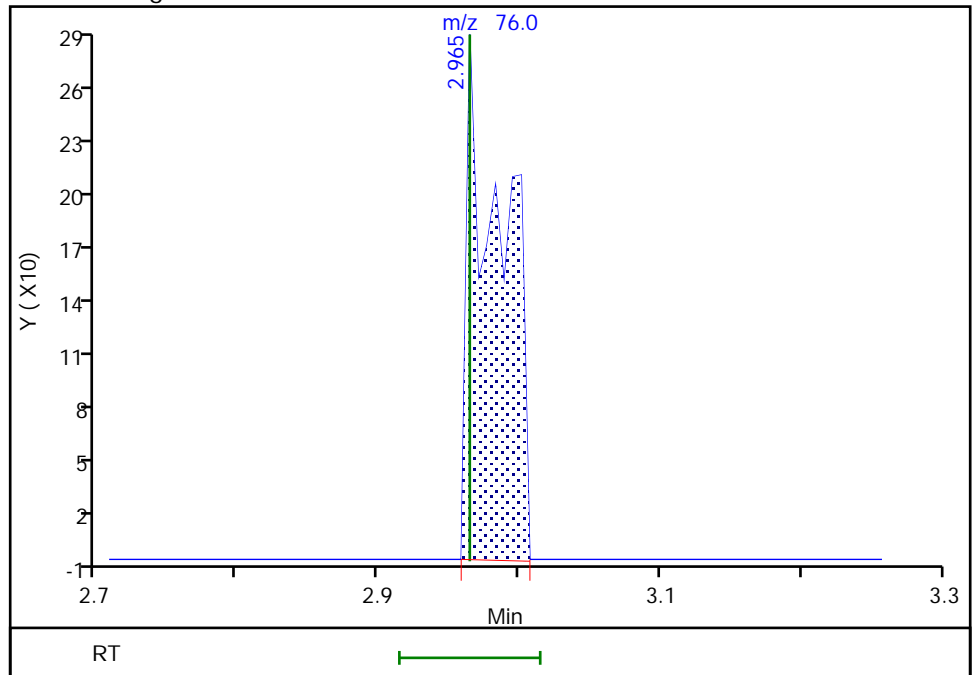
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Area: 246  
Amount: 0.574601  
Amount Units: ug/L

Processing Integration Results



RT: 2.96  
Area: 503  
Amount: 1.402910  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:50:01  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

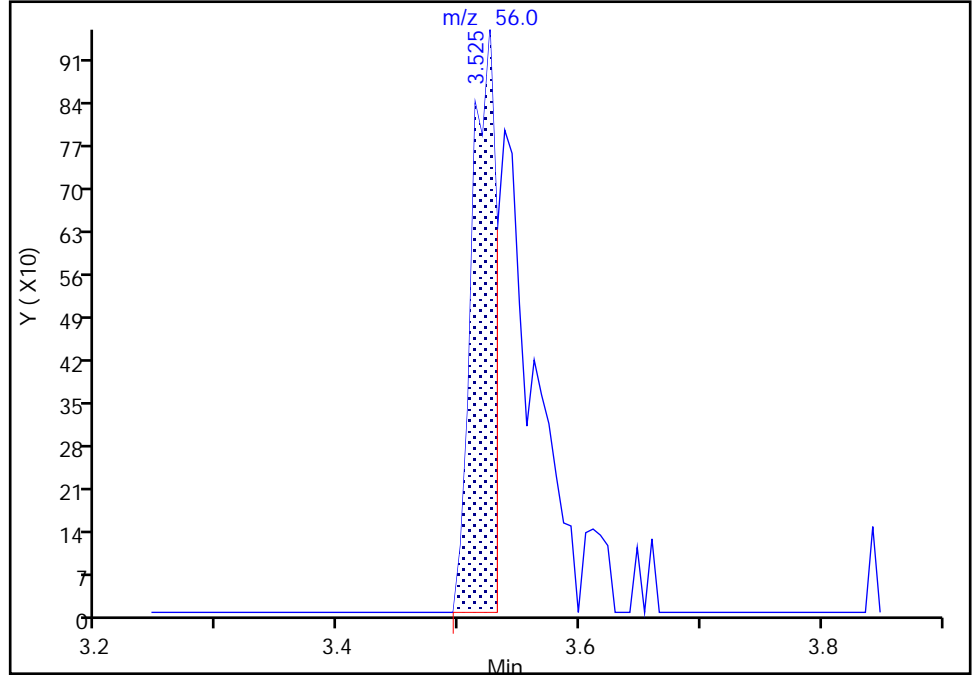
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Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

12 Acrolein, CAS: 107-02-8

Signal: 1

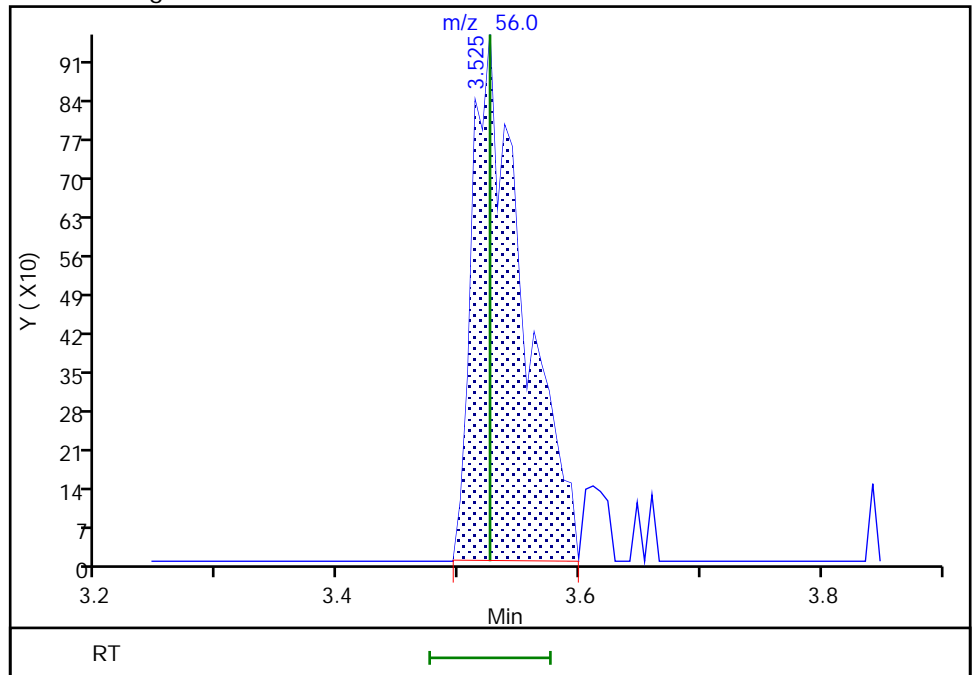
RT: 3.53  
Area: 1329  
Amount: 2.799092  
Amount Units: ug/L

Processing Integration Results



RT: 3.53  
Area: 2759  
Amount: 5.756295  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:50:10  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

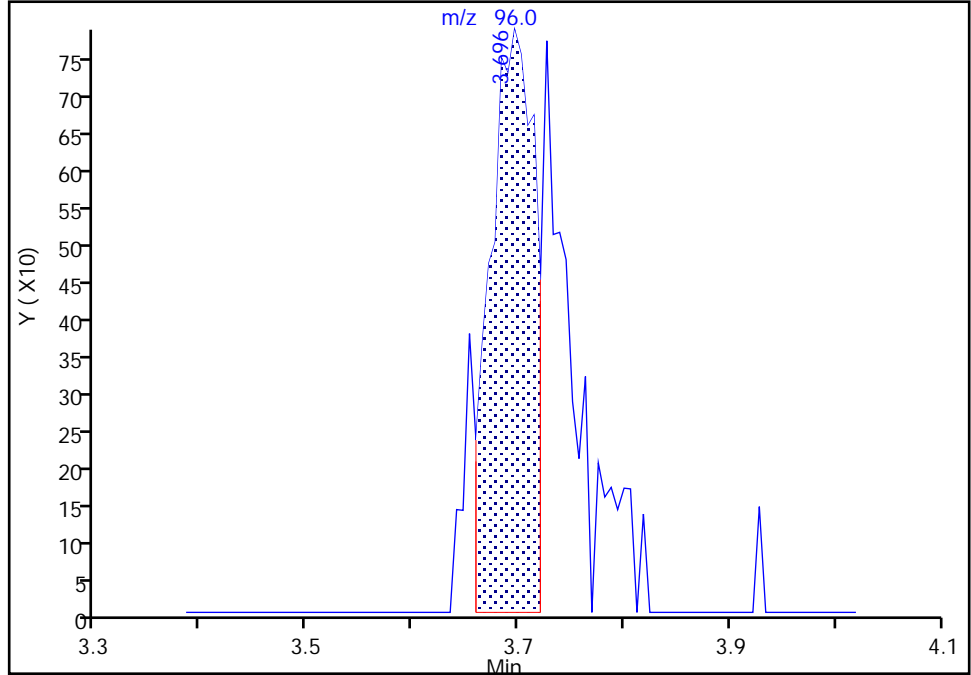
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

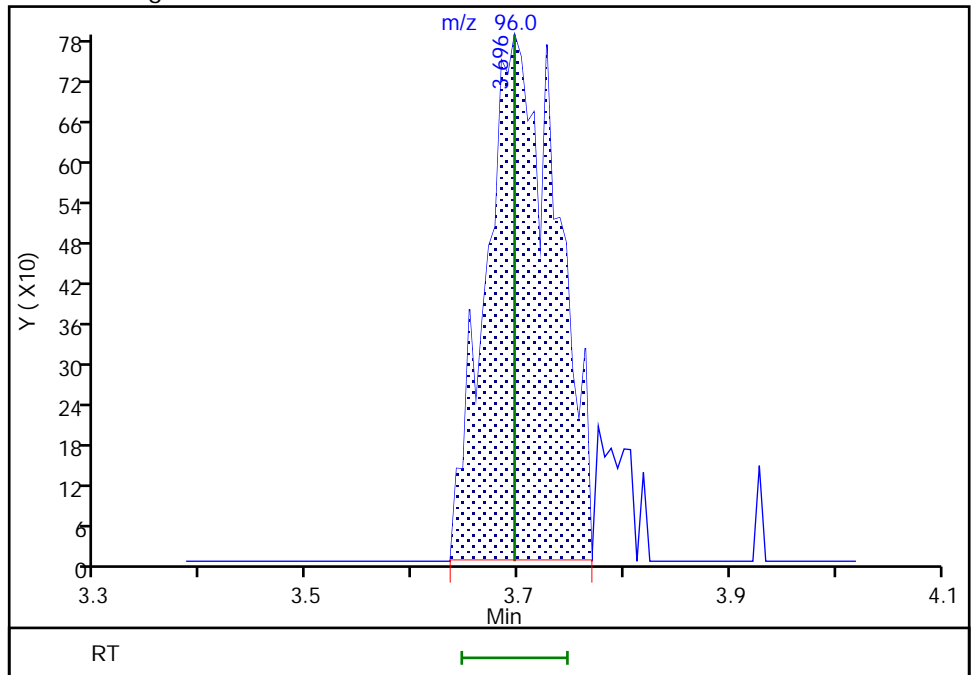
RT: 3.70  
Area: 2330  
Amount: 0.683890  
Amount Units: ug/L

Processing Integration Results



RT: 3.70  
Area: 3681  
Amount: 0.928031  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:50:18  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

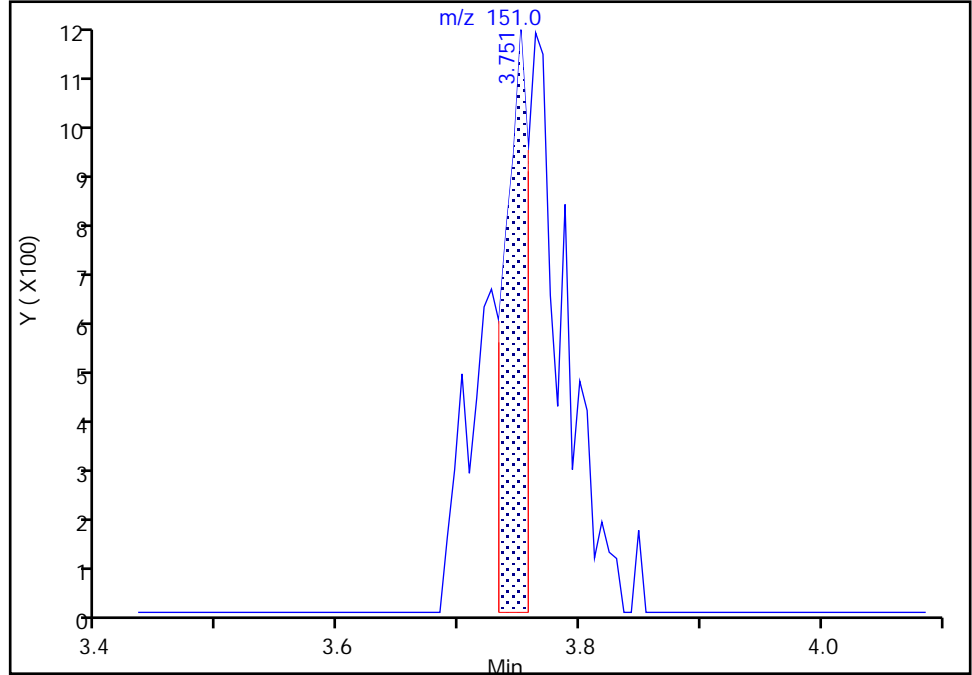
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

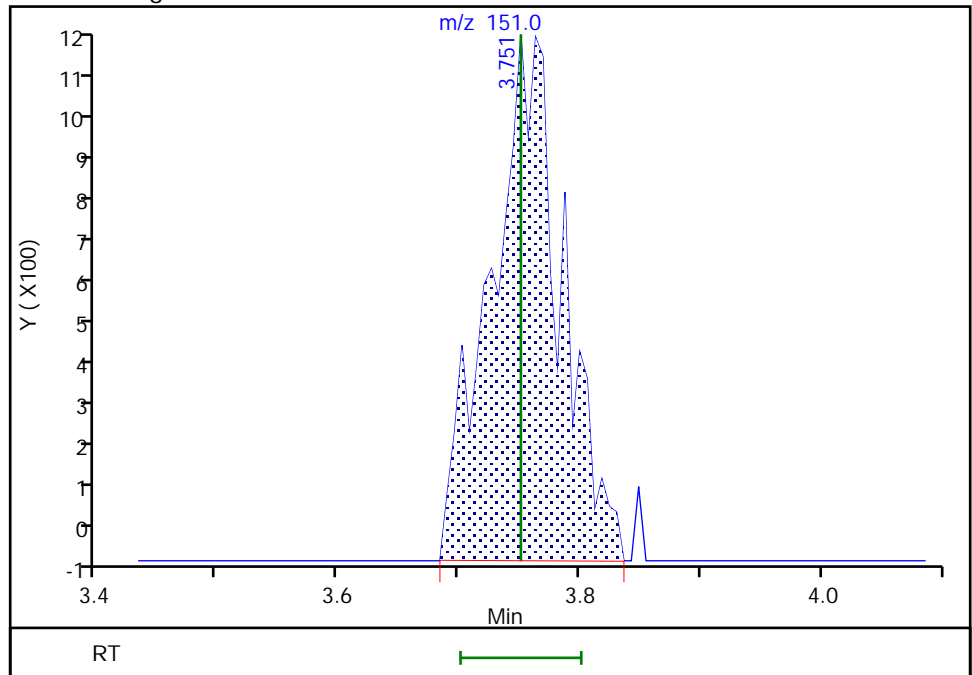
RT: 3.75  
Area: 1523  
Amount: 0.398435  
Amount Units: ug/L

Processing Integration Results



RT: 3.75  
Area: 4559  
Amount: 0.992142  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:50:48  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

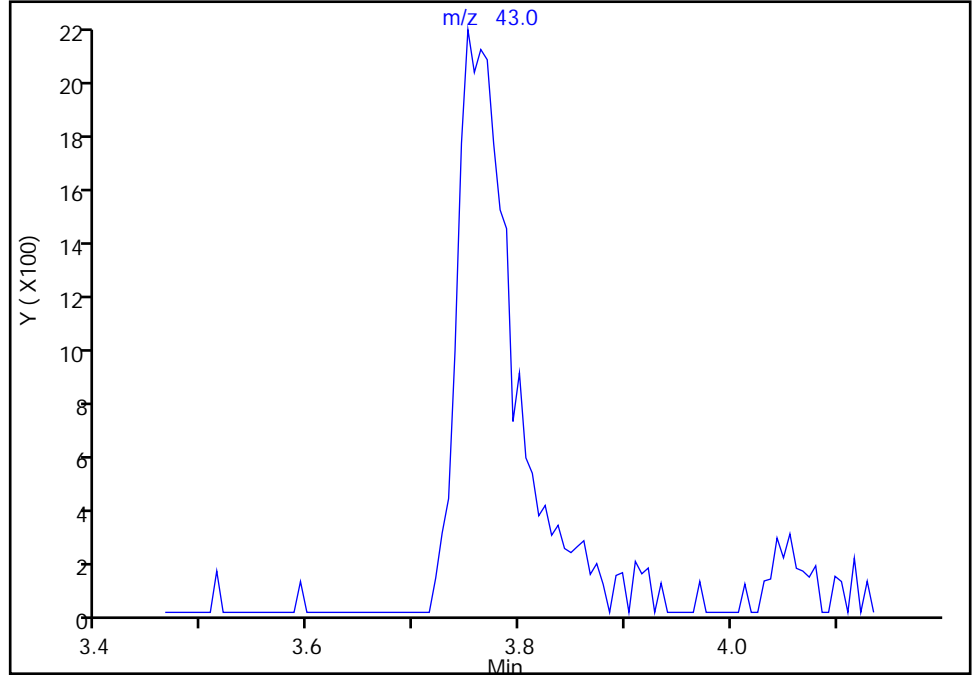
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

16 Acetone, CAS: 67-64-1

Signal: 1

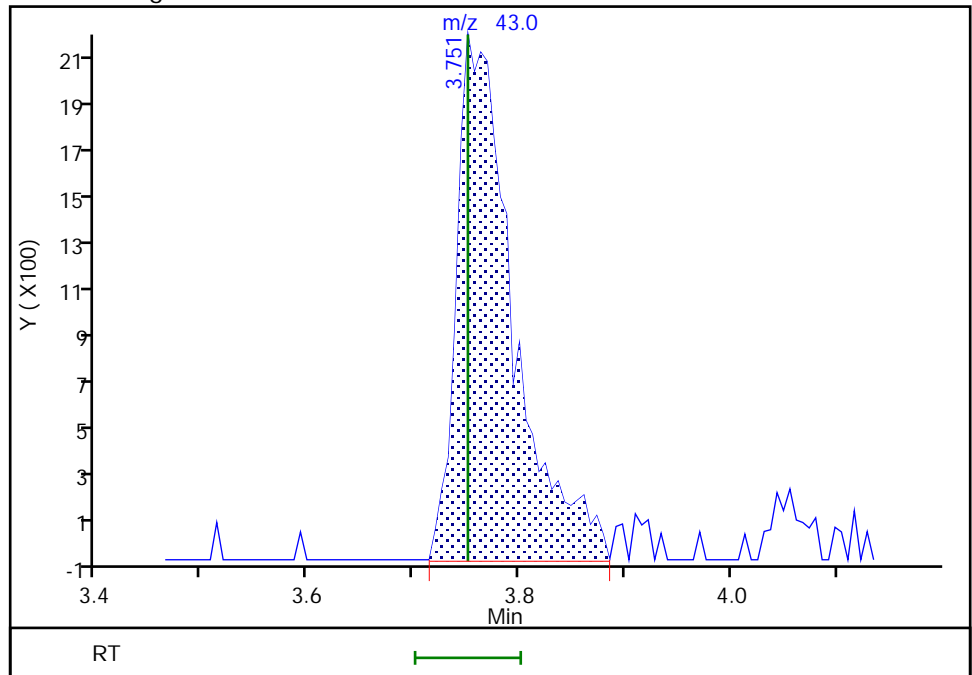
Not Detected  
Expected RT: 3.75

Processing Integration Results



Manual Integration Results

RT: 3.75  
Area: 7923  
Amount: 6.273962  
Amount Units: ug/L



Eurofins TestAmerica, Seattle

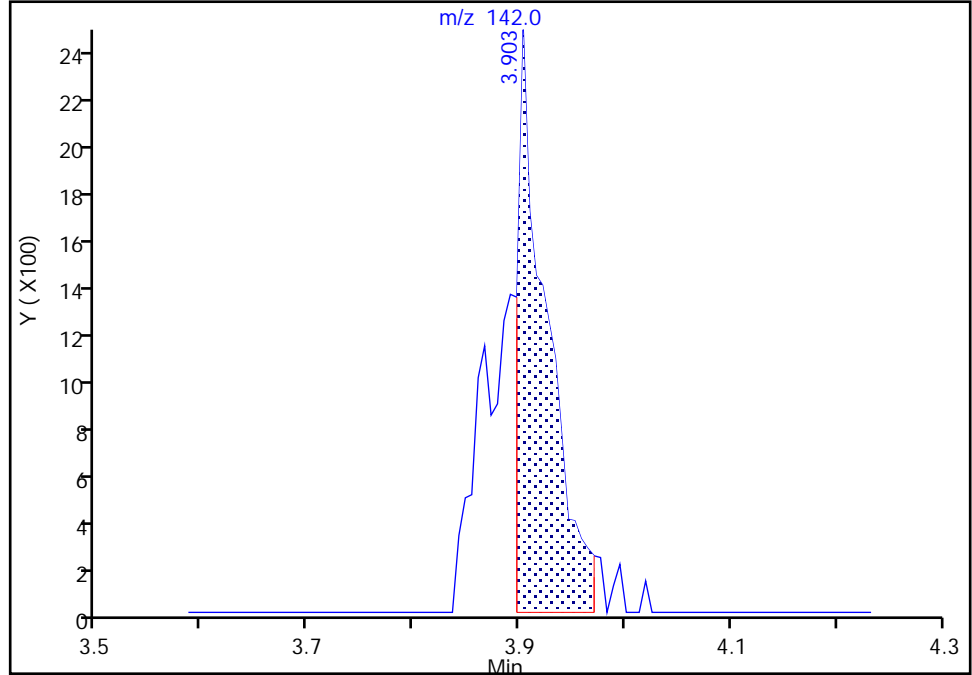
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

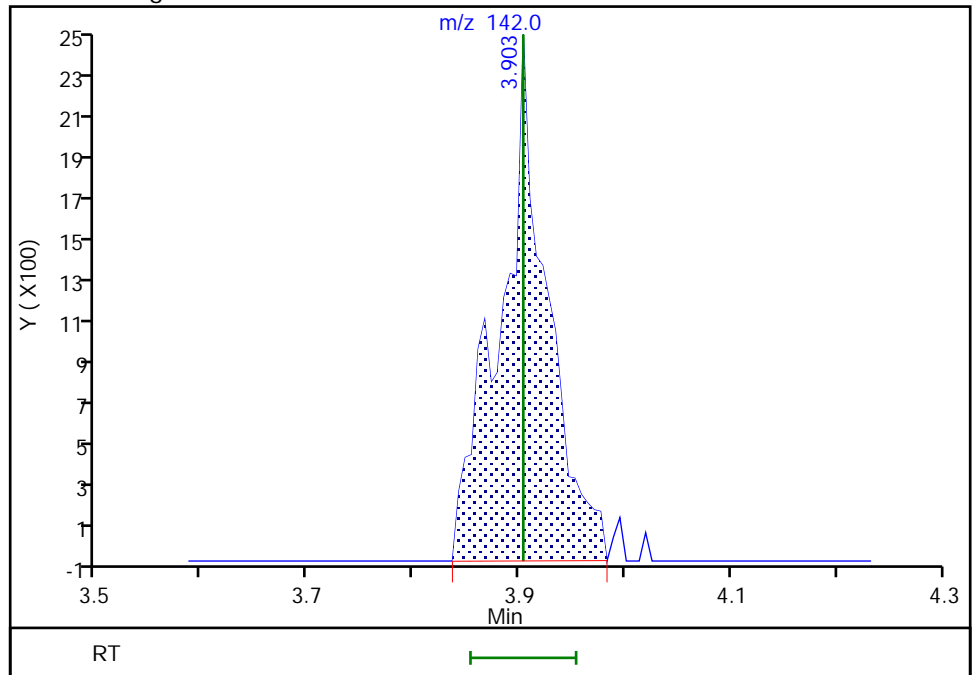
RT: 3.90  
Area: 4634  
Amount: 0.661858  
Amount Units: ug/L

Processing Integration Results



RT: 3.90  
Area: 7476  
Amount: 0.908286  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:50:56  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

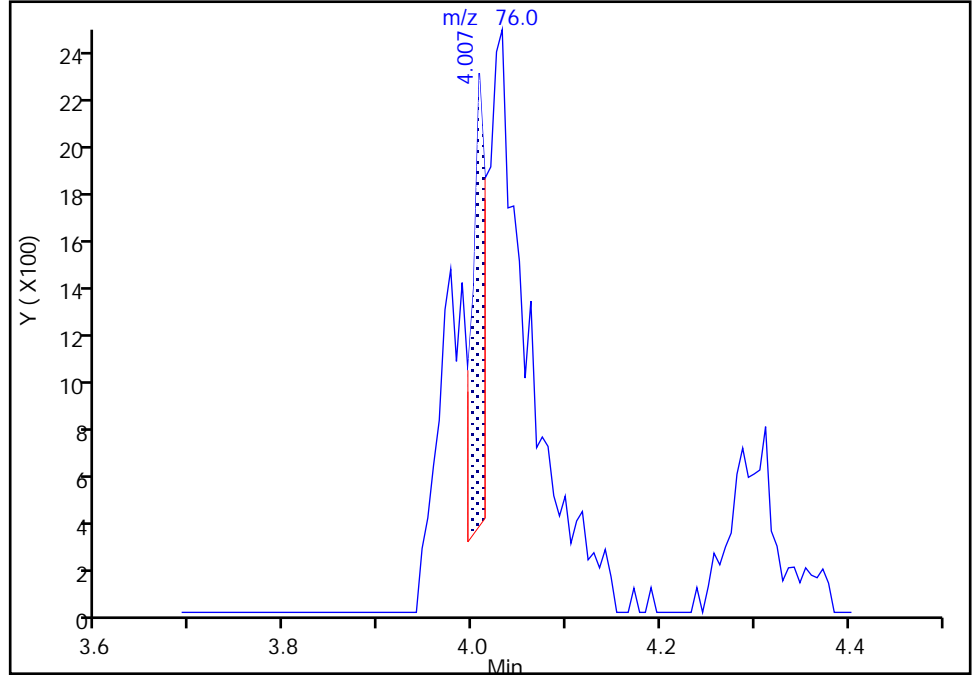
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

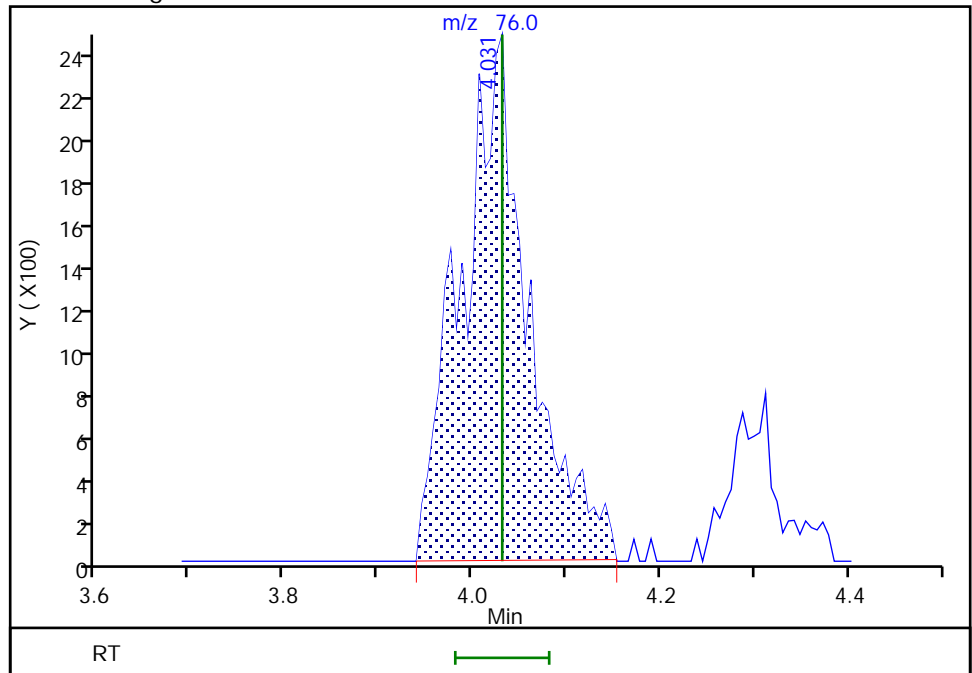
RT: 4.01  
Area: 1879  
Amount: 0.189850  
Amount Units: ug/L

Processing Integration Results



RT: 4.03  
Area: 12220  
Amount: 0.952923  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:51:02  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

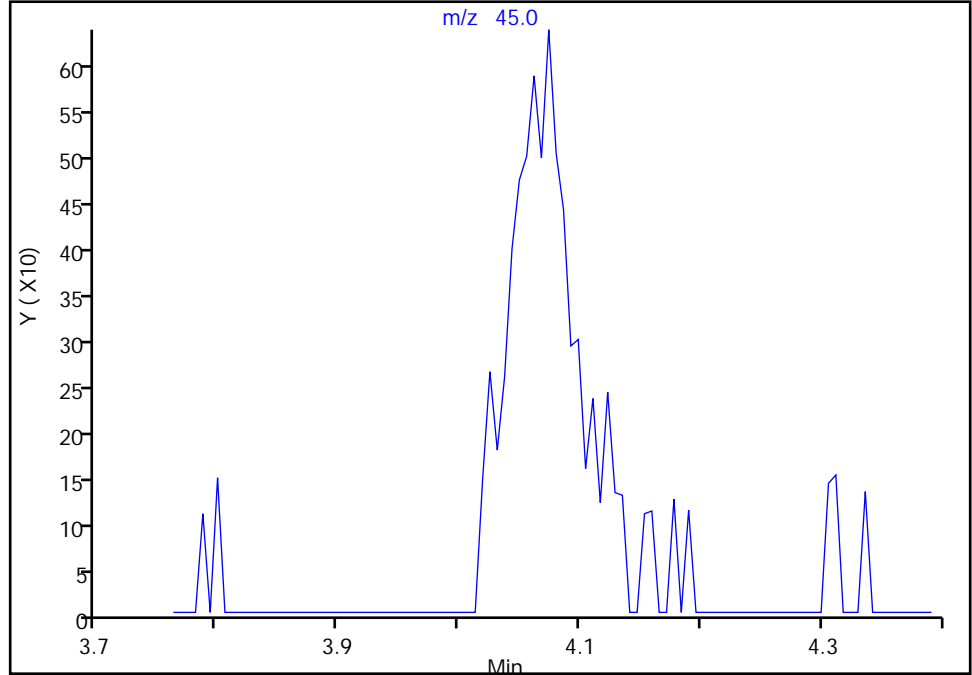
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

15 Isopropyl alcohol, CAS: 67-63-0

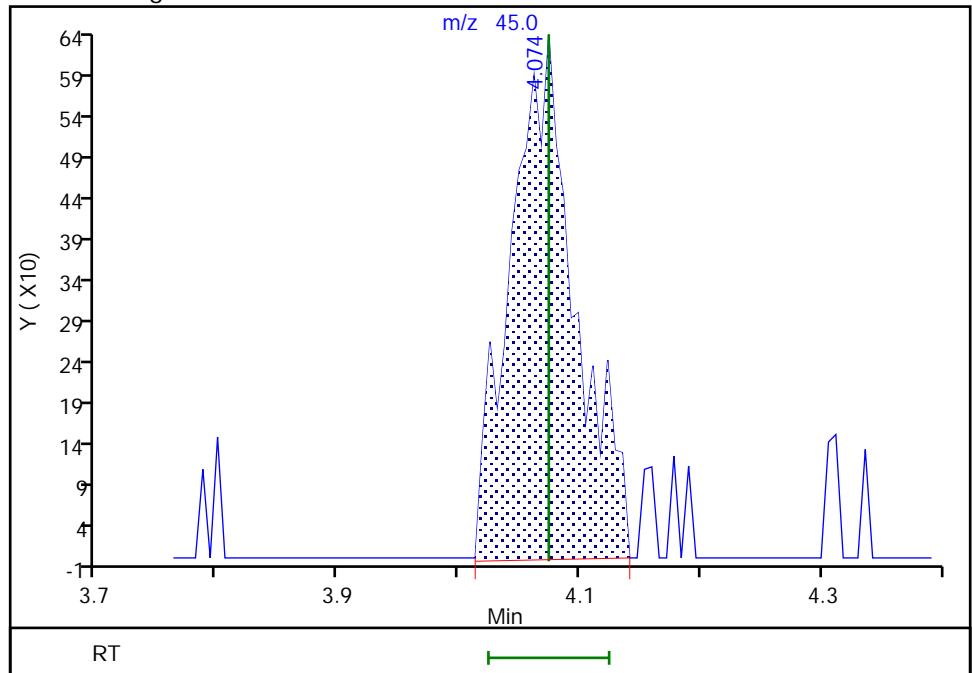
Signal: 1

Not Detected  
Expected RT: 4.07

Processing Integration Results



Manual Integration Results



RT: 4.07  
Area: 2366  
Amount: 12.709545  
Amount Units: ug/L

Eurofins TestAmerica, Seattle

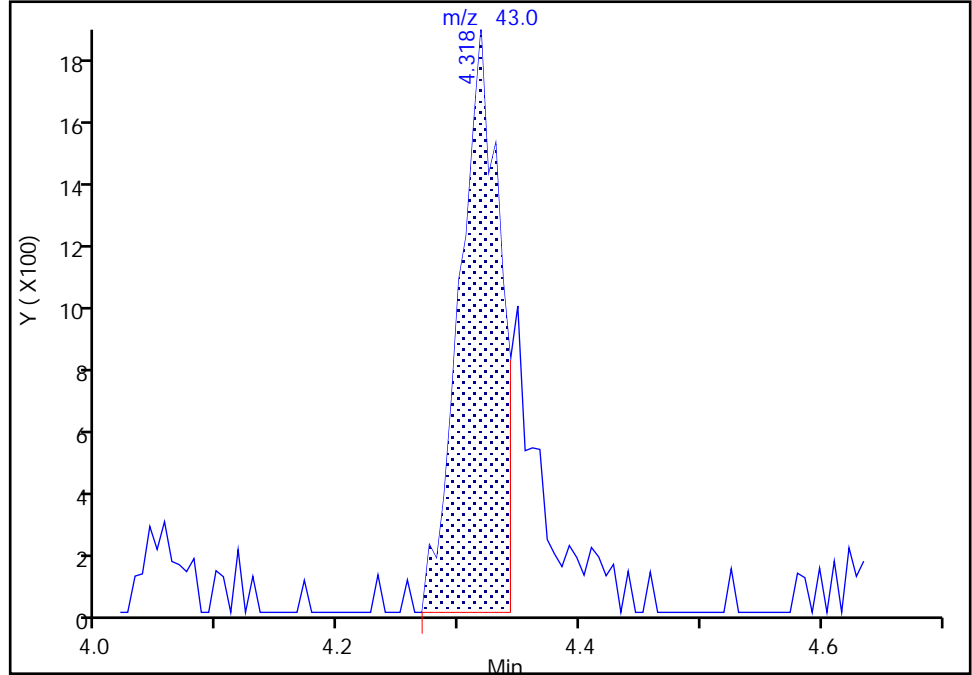
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Signal: 1

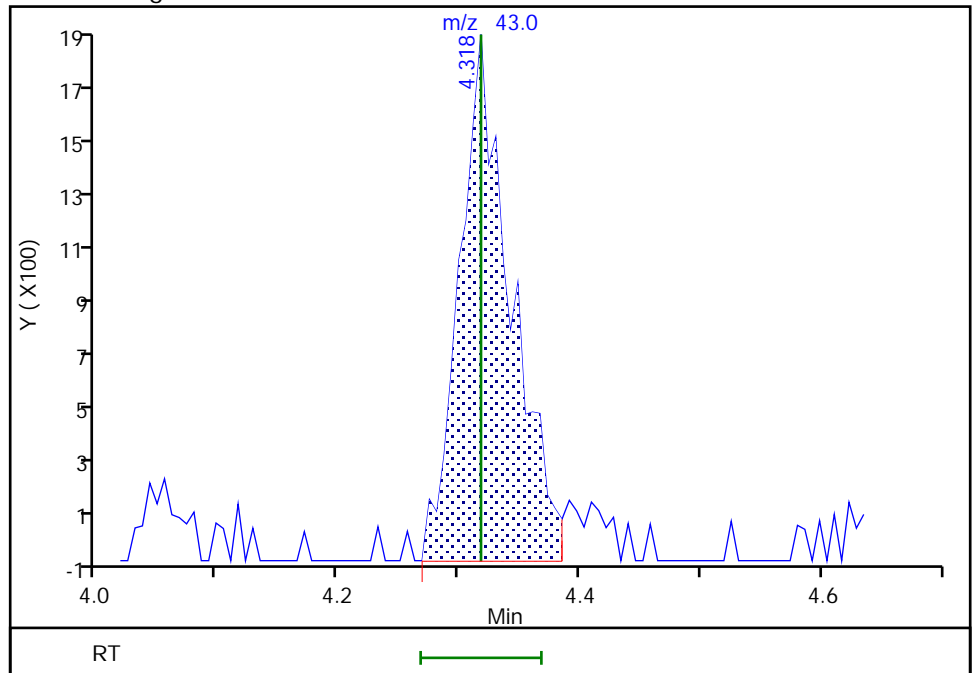
RT: 4.32  
Area: 4274  
Amount: 1.513723  
Amount Units: ug/L

Processing Integration Results



RT: 4.32  
Area: 5406  
Amount: 1.867840  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:51:27  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Seattle

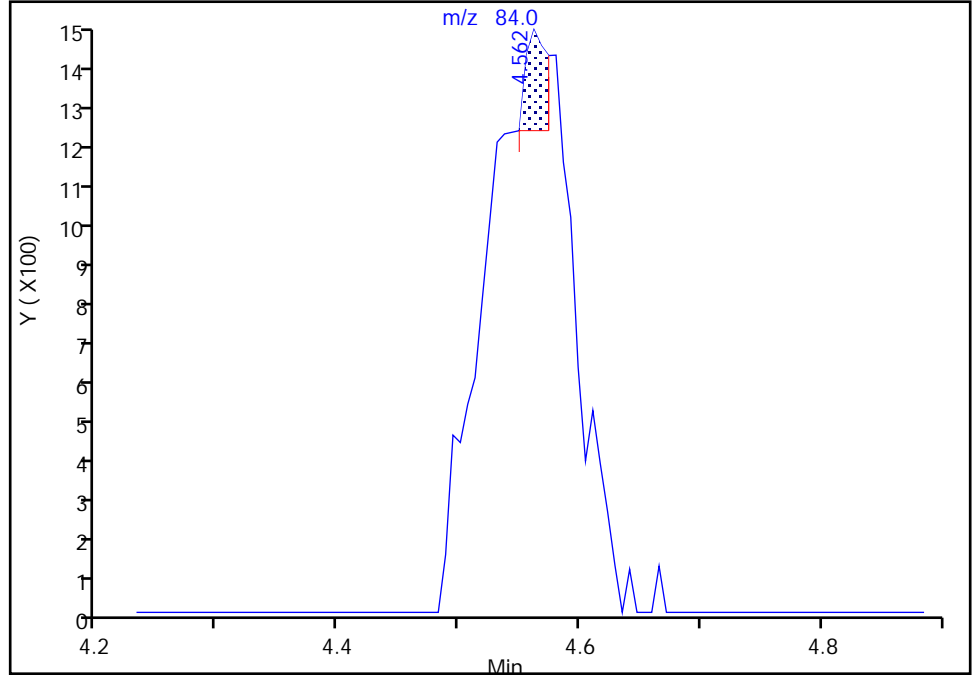
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

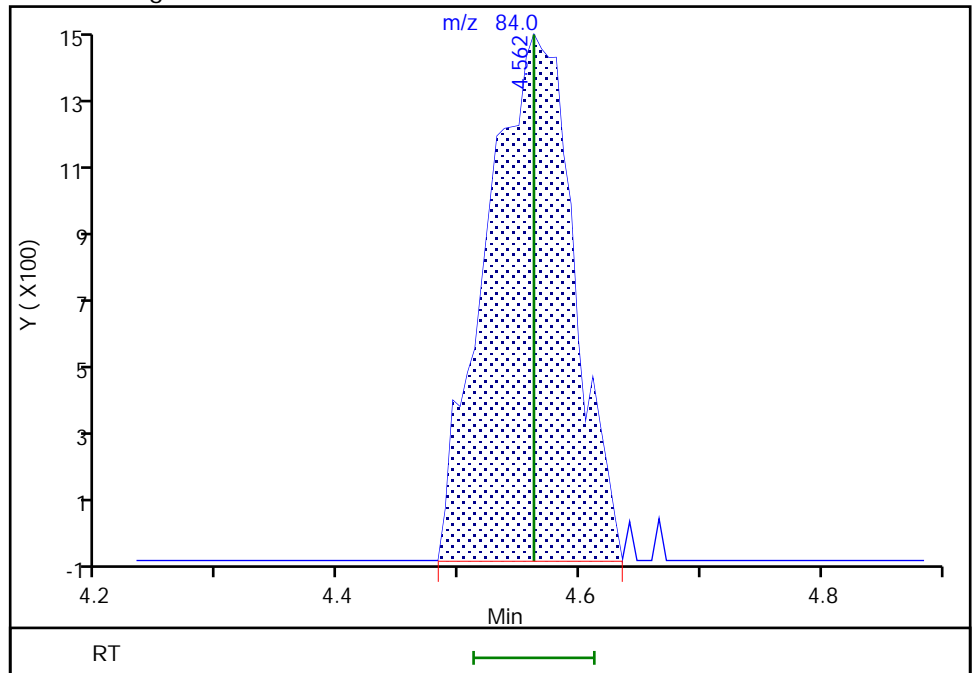
RT: 4.56  
Area: 300  
Amount: 0.094921  
Amount Units: ug/L

Processing Integration Results



RT: 4.56  
Area: 7174  
Amount: 1.109005  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:56:19  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

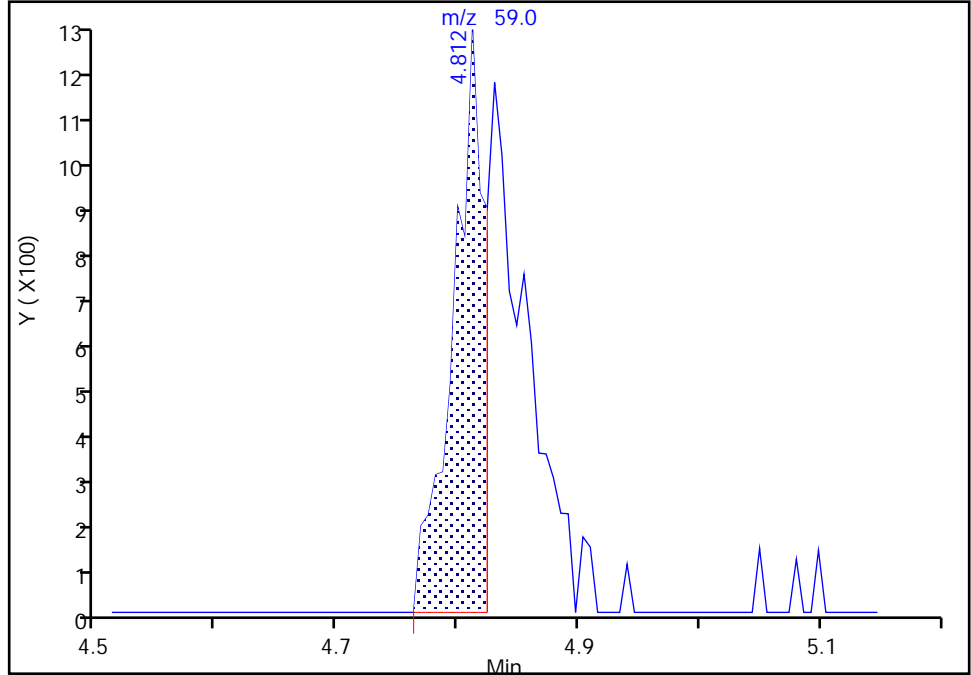
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

20 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

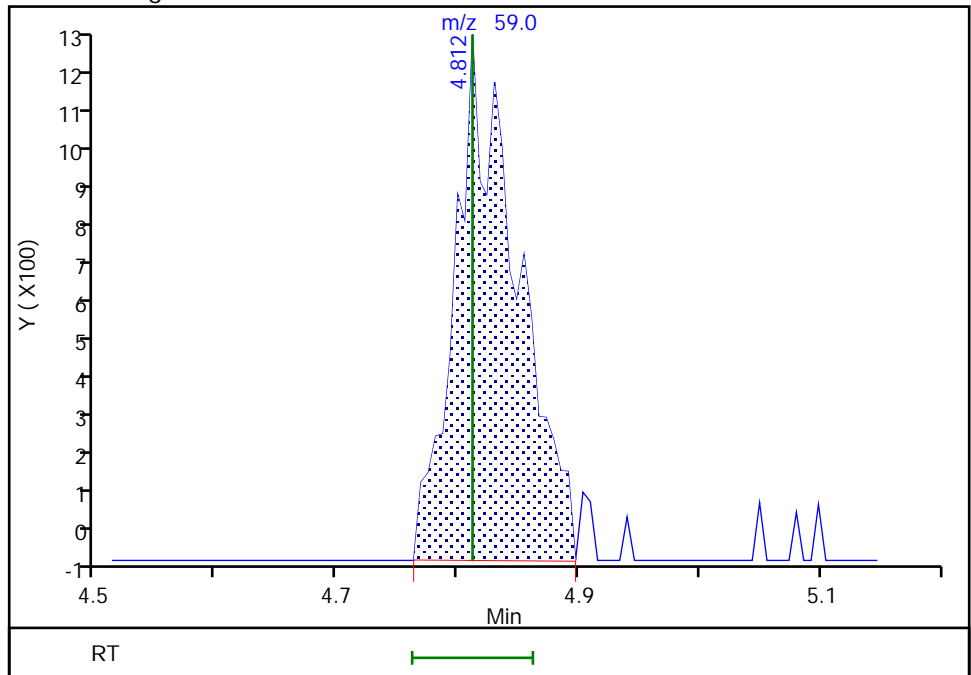
RT: 4.81  
Area: 2271  
Amount: 7.553975  
Amount Units: ug/L

Processing Integration Results



RT: 4.81  
Area: 4528  
Amount: 10.794581  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:56:28  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

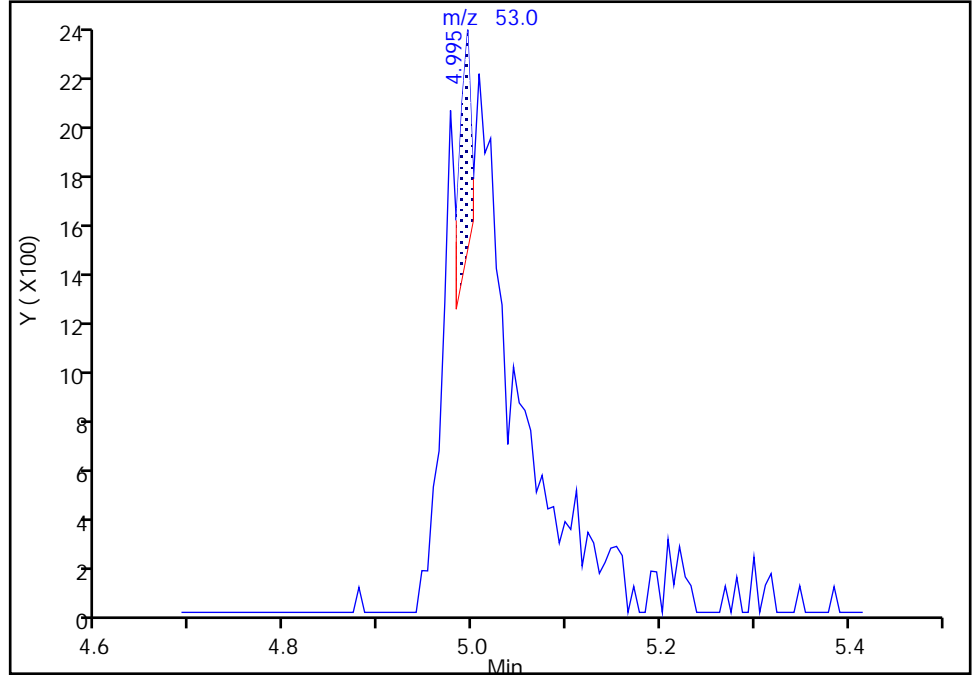
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

21 Acrylonitrile, CAS: 107-13-1

Signal: 1

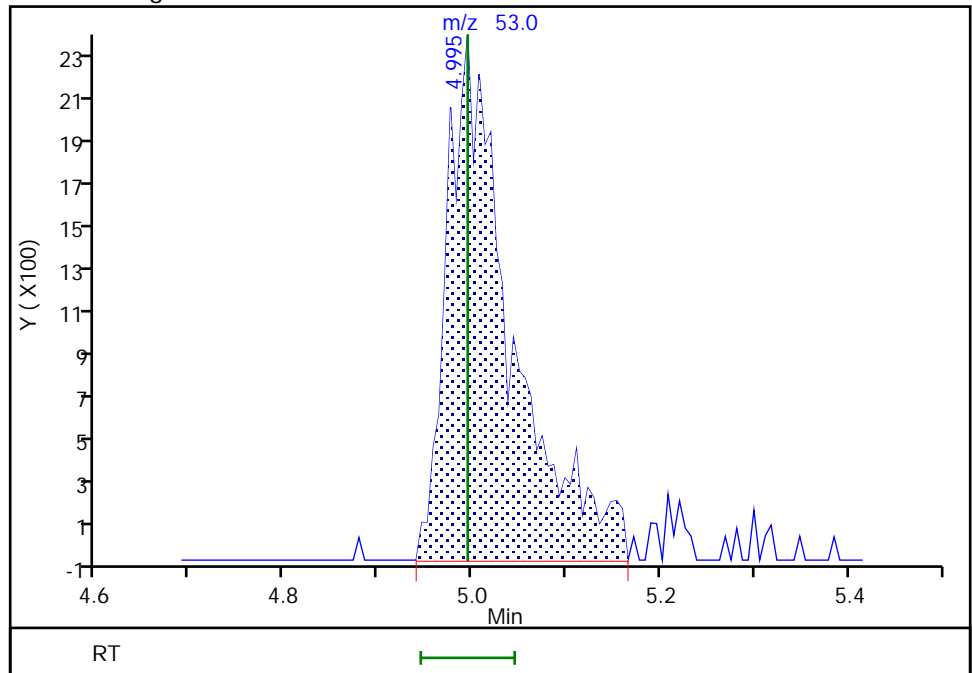
RT: 4.99  
Area: 771  
Amount: 0.841211  
Amount Units: ug/L

Processing Integration Results



RT: 4.99  
Area: 11092  
Amount: 9.376500  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:56:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

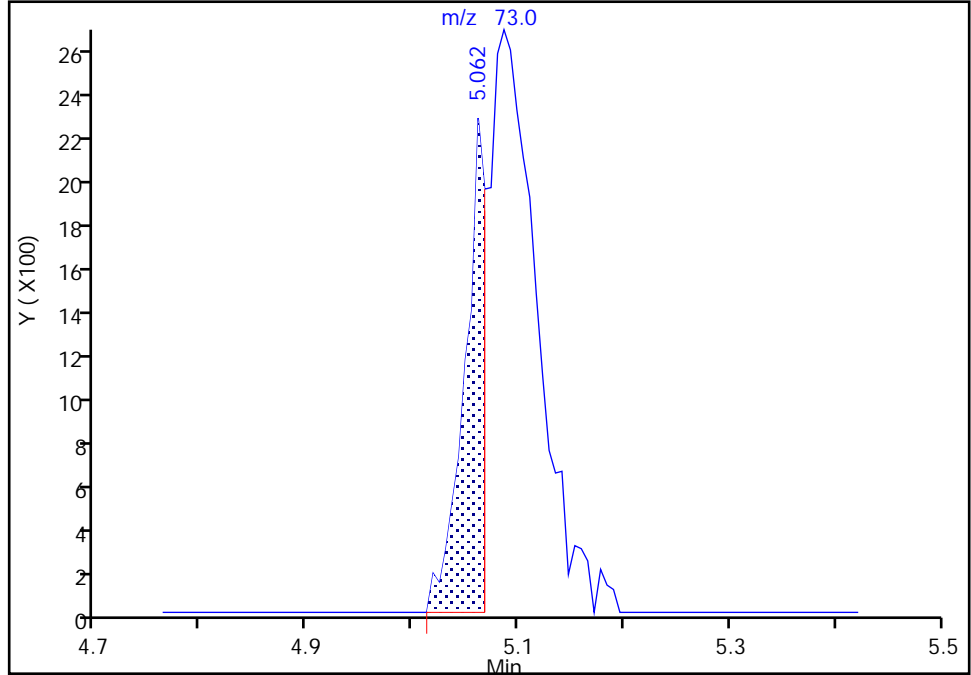
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

28 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

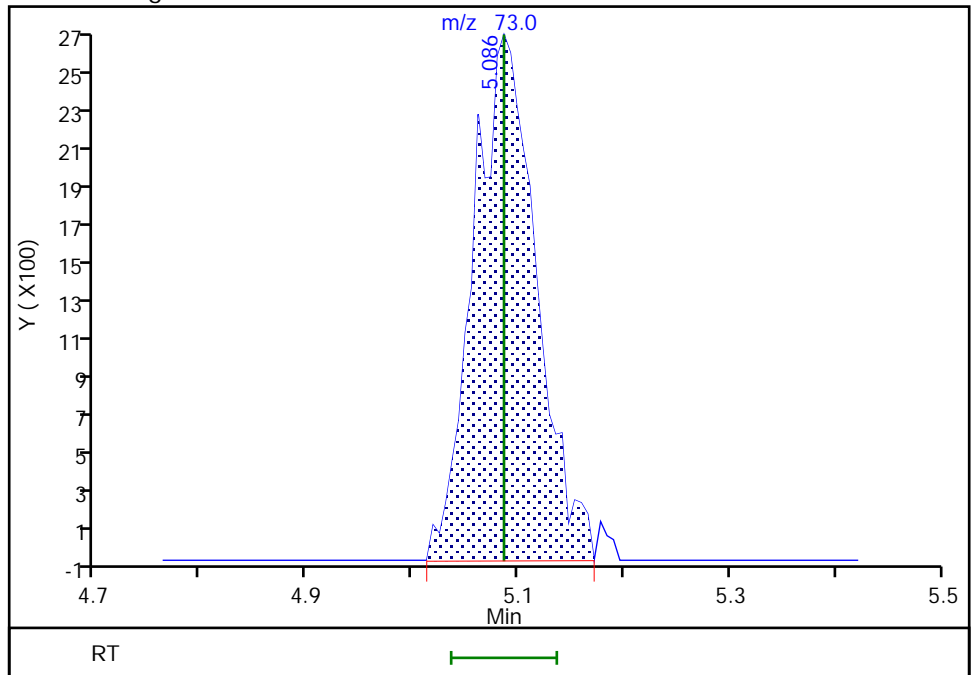
RT: 5.06  
Area: 3142  
Amount: 0.291029  
Amount Units: ug/L

Processing Integration Results



RT: 5.09  
Area: 11093  
Amount: 0.873382  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:56:43  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

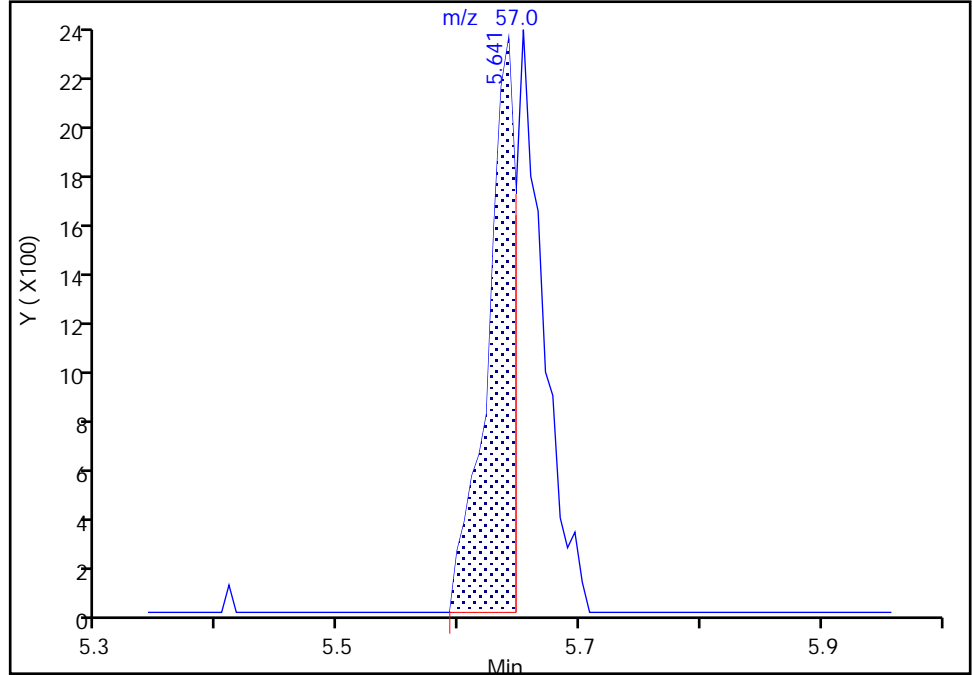
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

34 Hexane, CAS: 110-54-3

Signal: 1

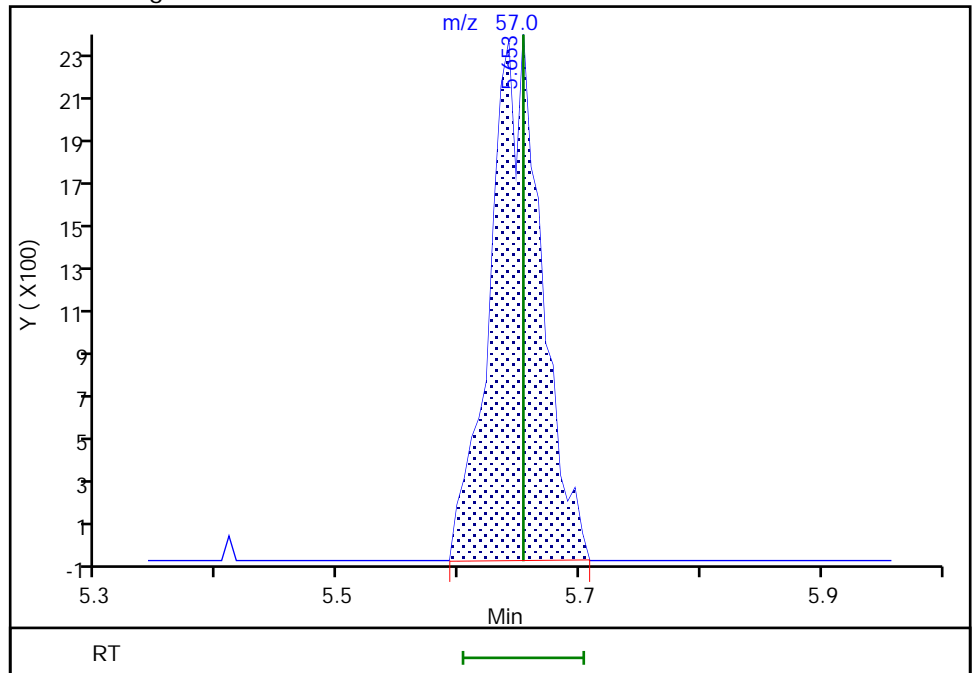
RT: 5.64  
Area: 3718  
Amount: 0.578304  
Amount Units: ug/L

Processing Integration Results



RT: 5.65  
Area: 6852  
Amount: 1.004560  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:56:59  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

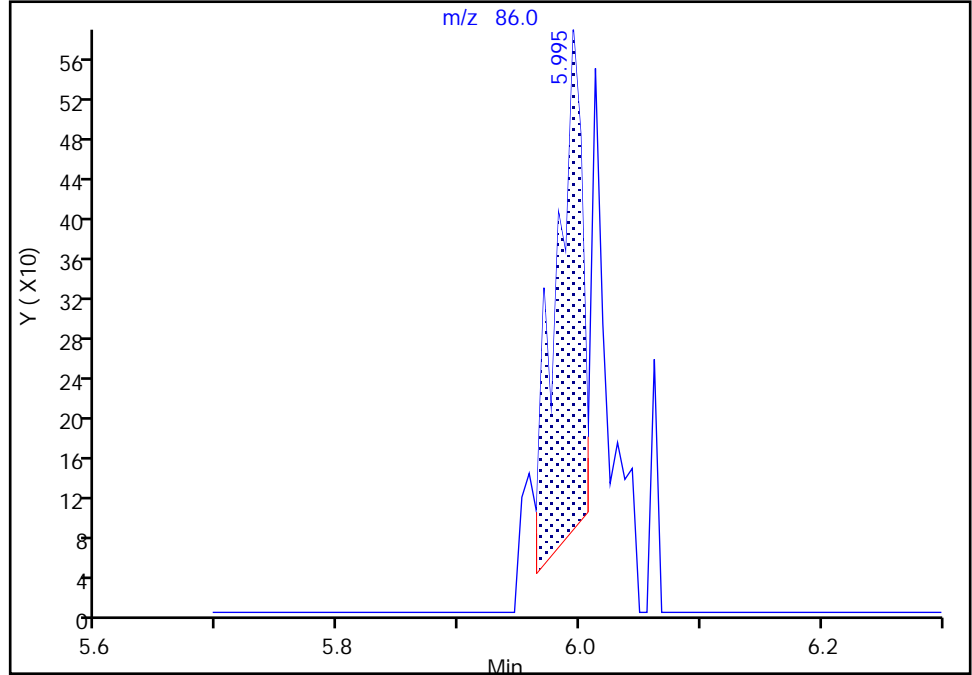
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

31 Vinyl acetate, CAS: 108-05-4

Signal: 1

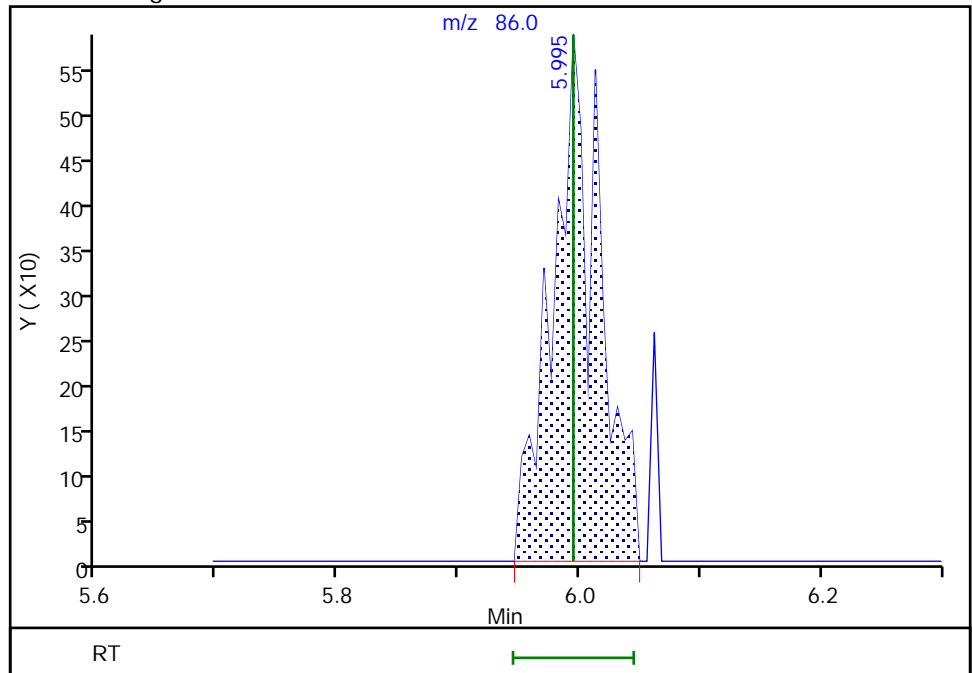
RT: 5.99  
Area: 758  
Amount: 0.938087  
Amount Units: ug/L

Processing Integration Results



RT: 5.99  
Area: 1576  
Amount: 4.190072  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:57:12  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

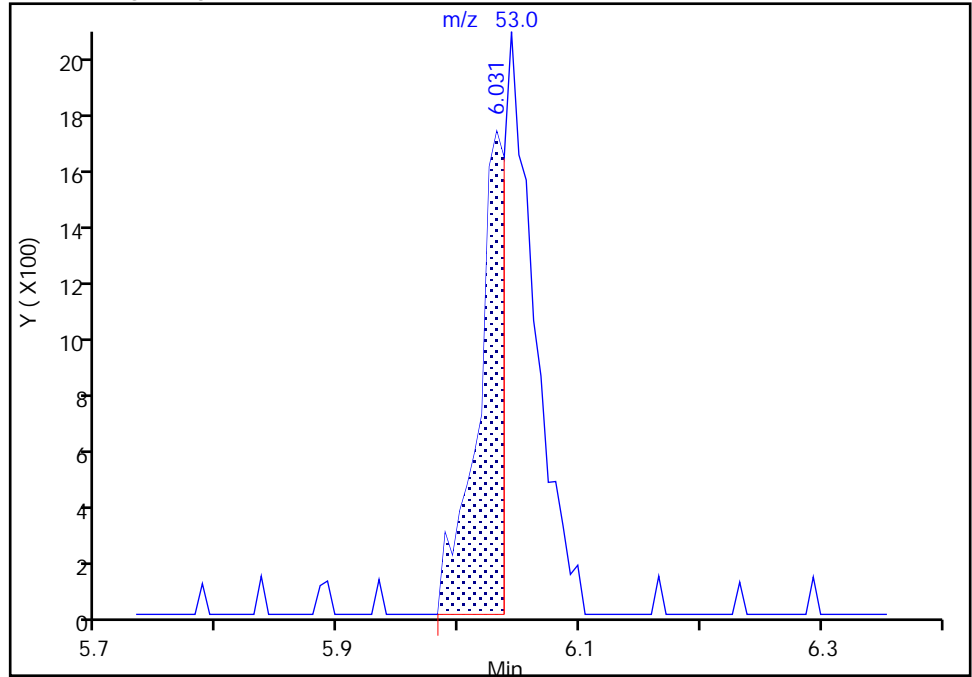
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

32 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

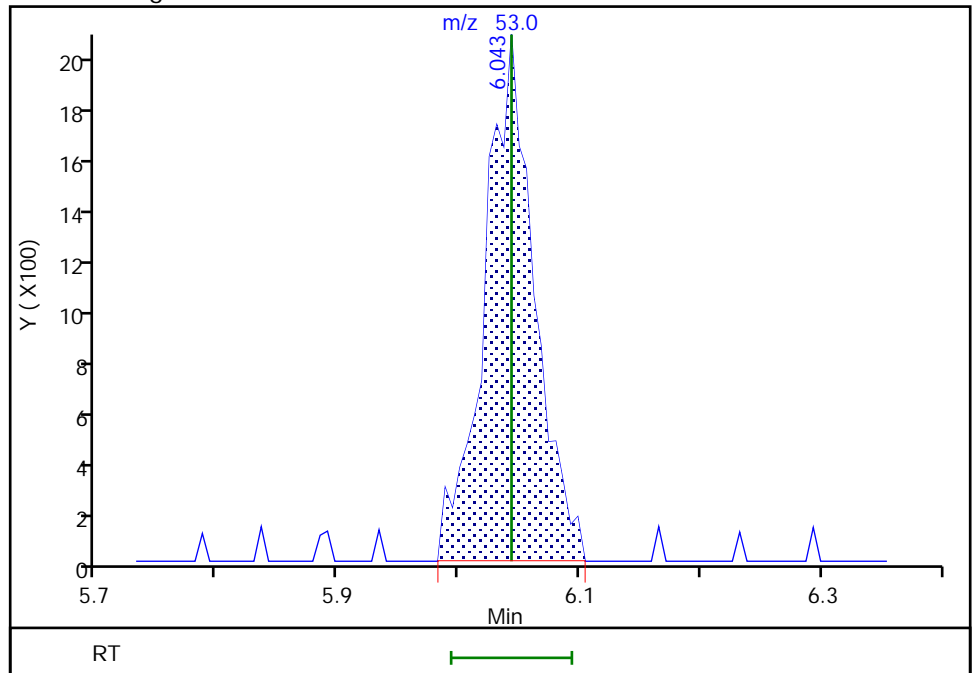
RT: 6.03  
Area: 2696  
Amount: 0.412168  
Amount Units: ug/L

Processing Integration Results



RT: 6.04  
Area: 5799  
Amount: 0.836930  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:57:22  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

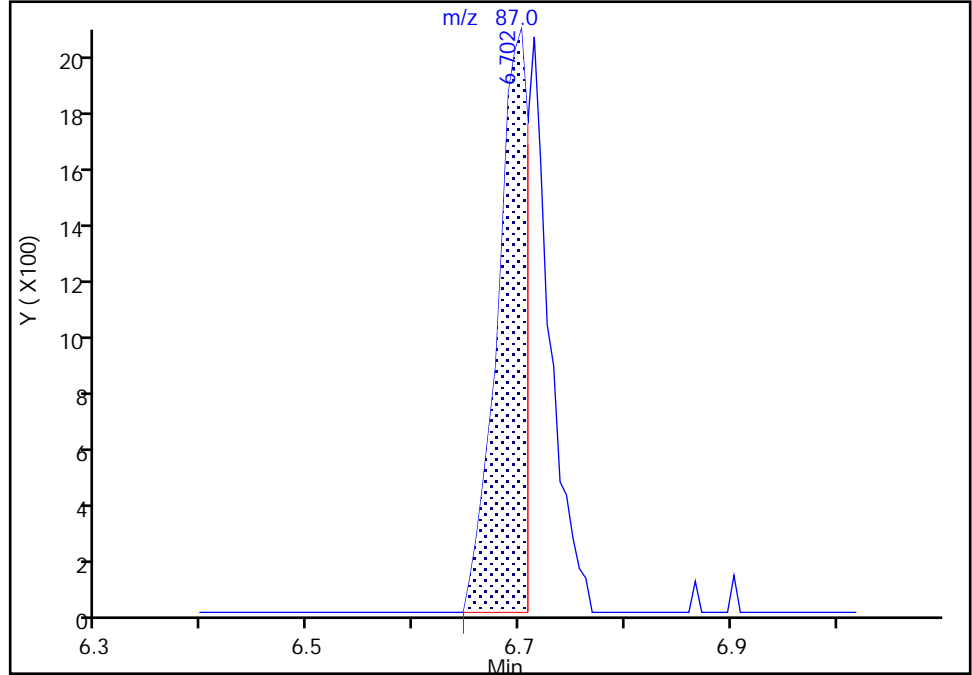
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

41 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

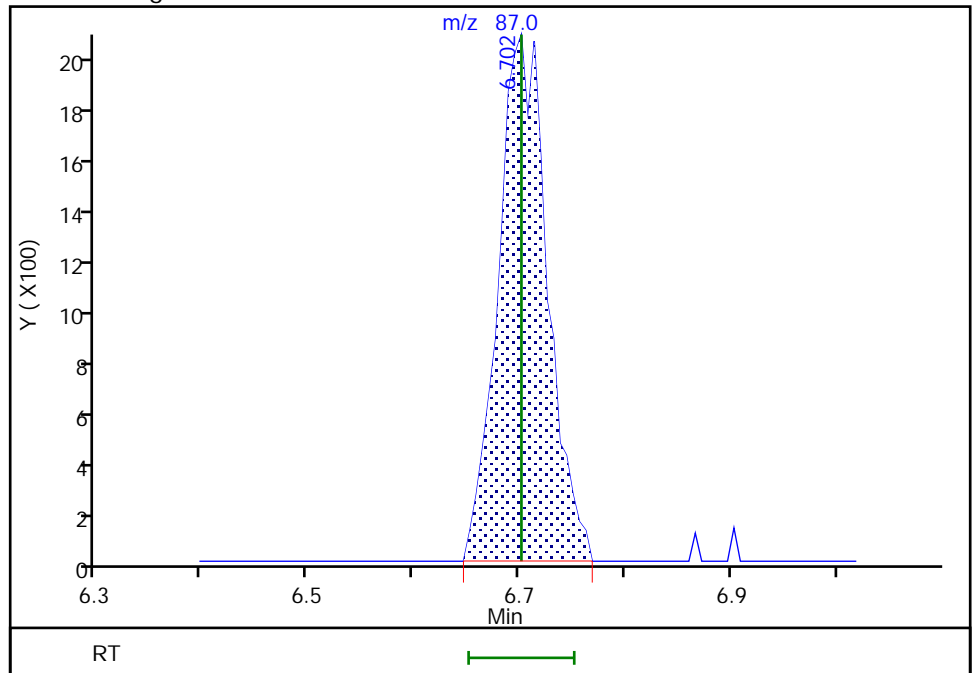
RT: 6.70  
Area: 4203  
Amount: 0.725733  
Amount Units: ug/L

Processing Integration Results



RT: 6.70  
Area: 6775  
Amount: 1.074651  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:57:31  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

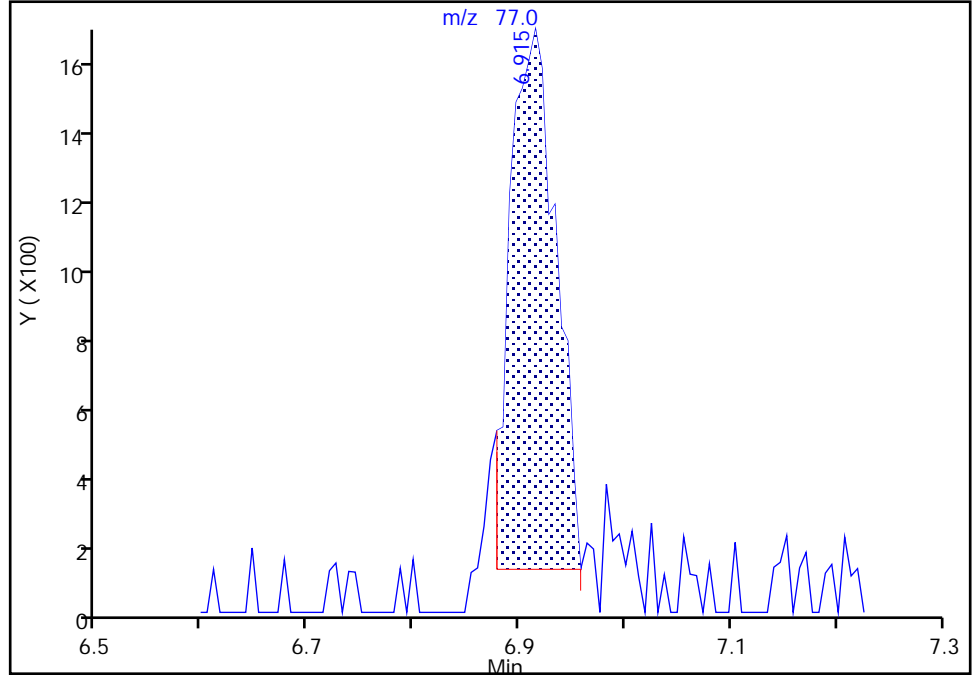
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

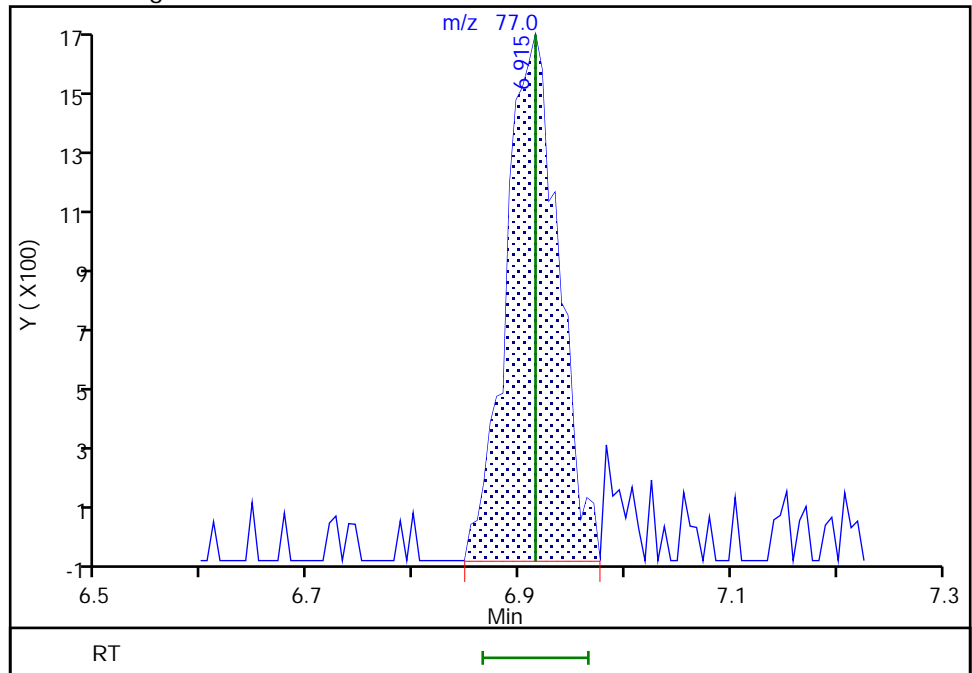
RT: 6.92  
Area: 4632  
Amount: 0.788804  
Amount Units: ug/L

Processing Integration Results



RT: 6.92  
Area: 5753  
Amount: 0.976475  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:57:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

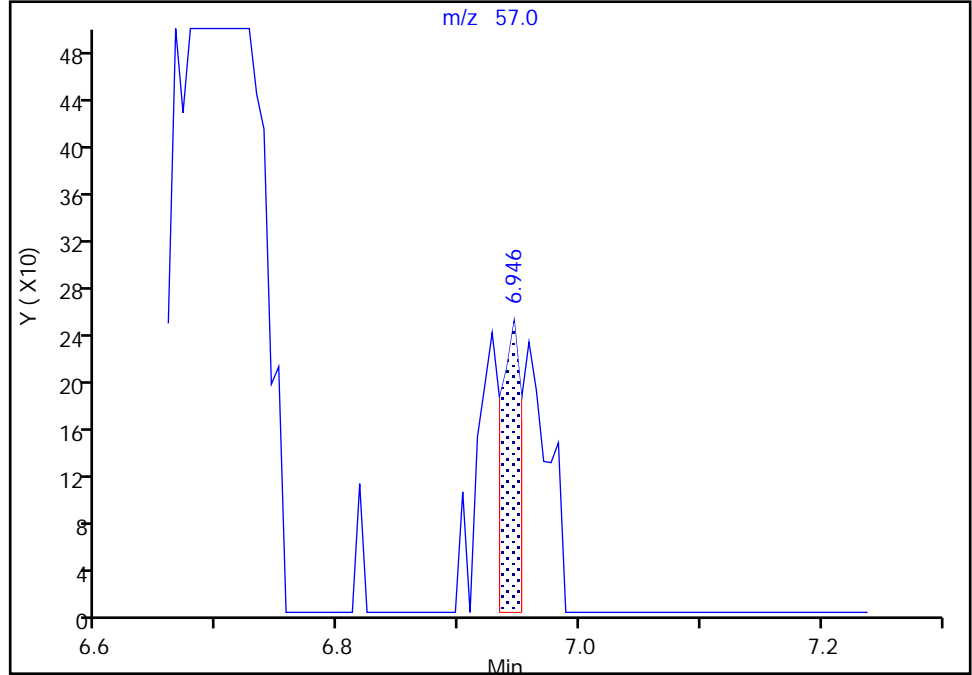
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

33 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

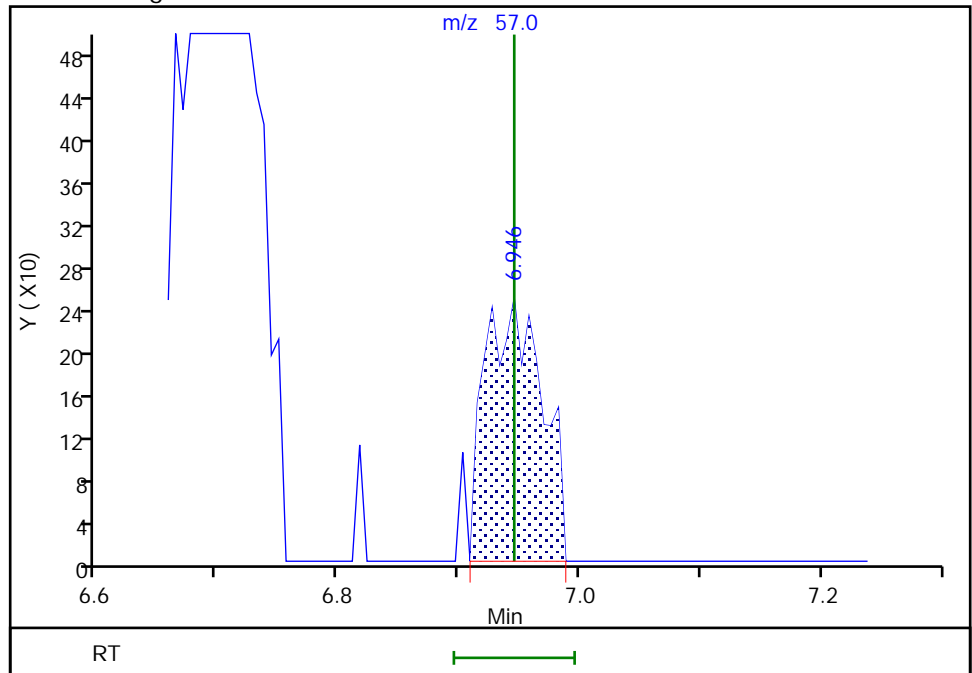
RT: 6.95  
Area: 301  
Amount: 3.147044  
Amount Units: ug/L

Processing Integration Results



RT: 6.95  
Area: 816  
Amount: 2.543633  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:57:55  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

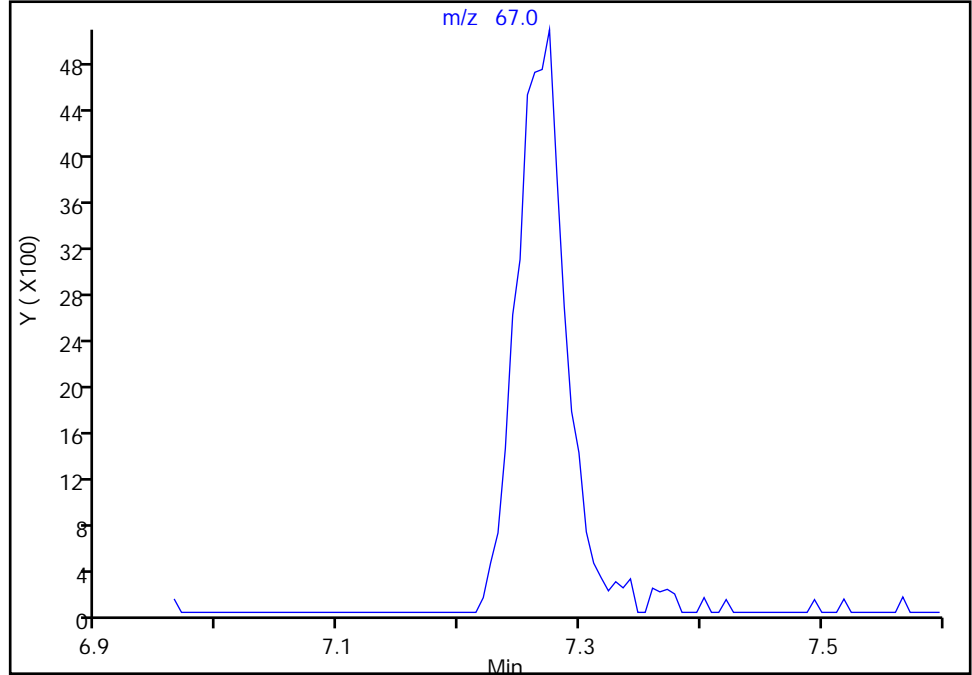
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

**36 Methacrylonitrile, CAS: 126-98-7**

Signal: 1

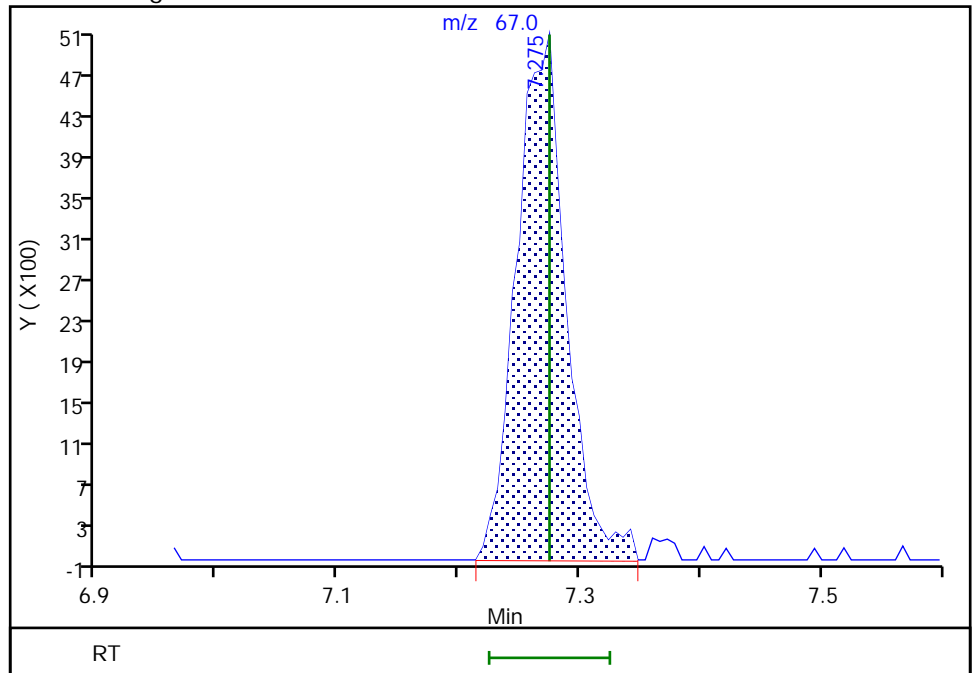
Not Detected  
Expected RT: 7.27

Processing Integration Results



Manual Integration Results

RT: 7.27  
Area: 14432  
Amount: 8.190089  
Amount Units: ug/L



Eurofins TestAmerica, Seattle

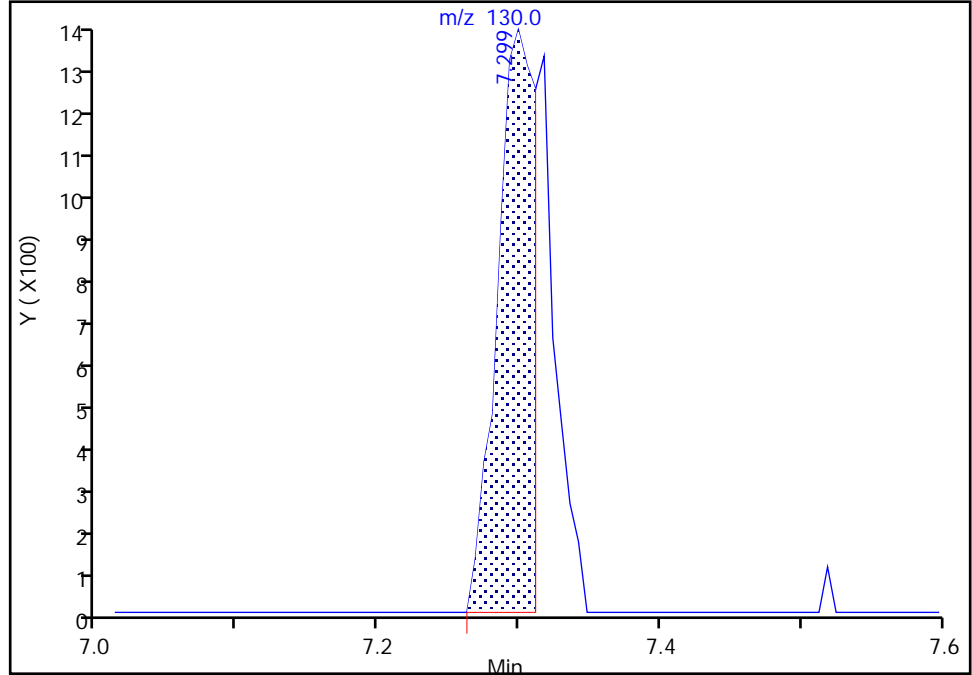
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

39 Chlorobromomethane, CAS: 74-97-5

Signal: 1

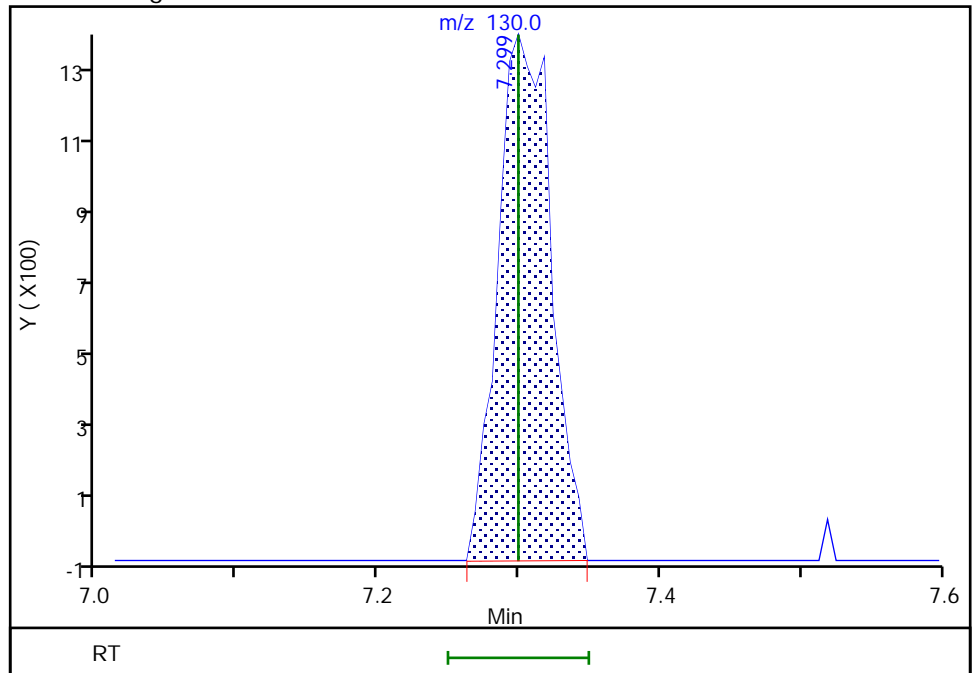
RT: 7.30  
Area: 2633  
Amount: 0.652224  
Amount Units: ug/L

Processing Integration Results



RT: 7.30  
Area: 3694  
Amount: 0.885941  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:58:21  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

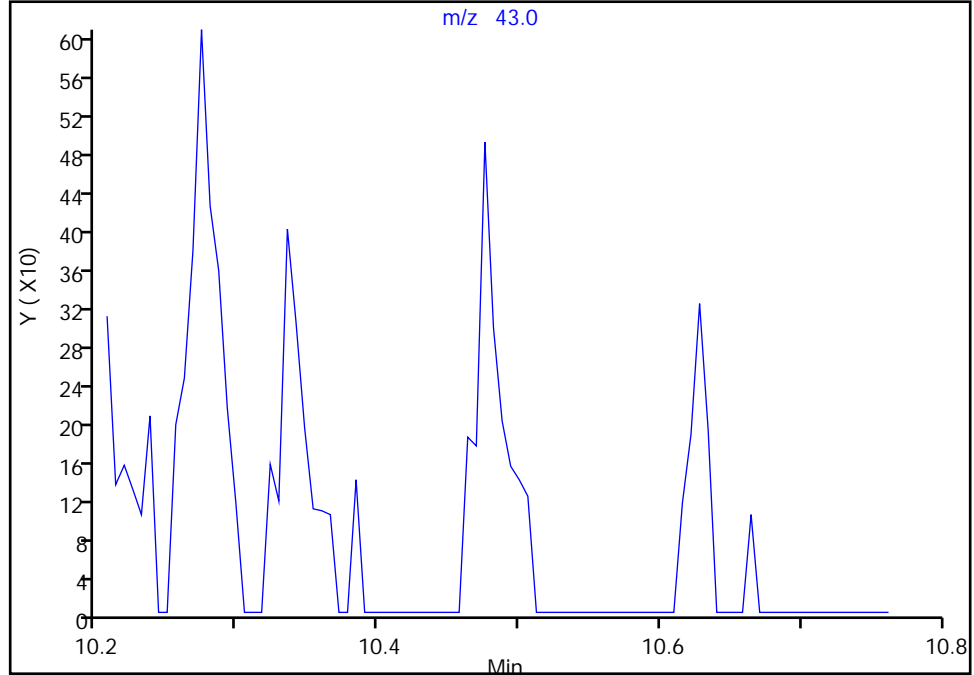
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_004.D  
Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

70 n-Butyl acetate, CAS: 123-86-4

Signal: 1

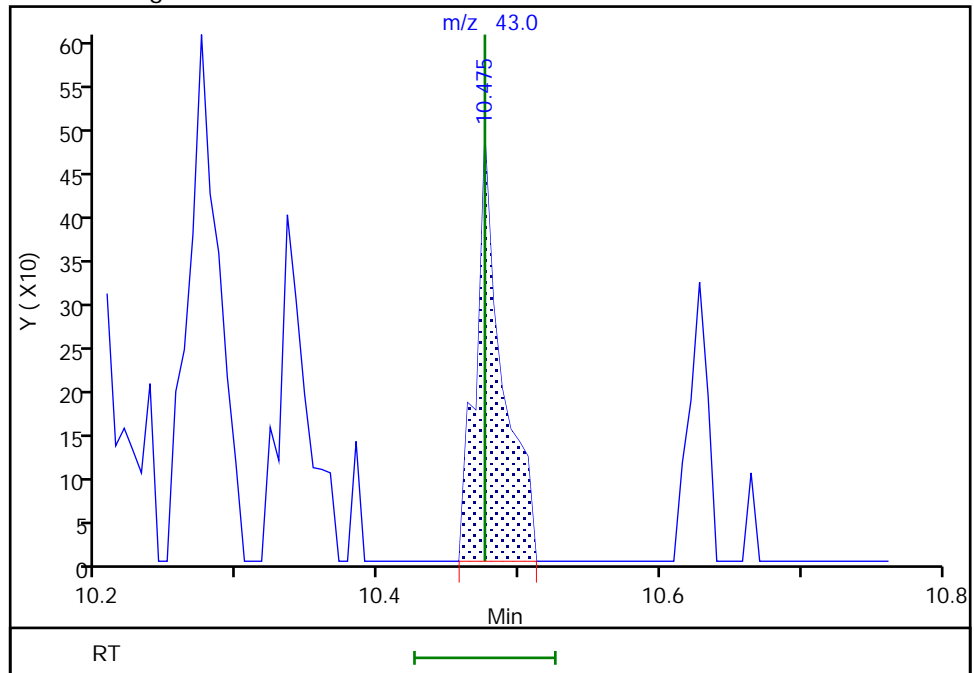
Not Detected  
Expected RT: 10.48

Processing Integration Results



RT: 10.48  
Area: 636  
Amount: 1.162537  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:59:05  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 250 of 425

Eurofins TestAmerica, Seattle

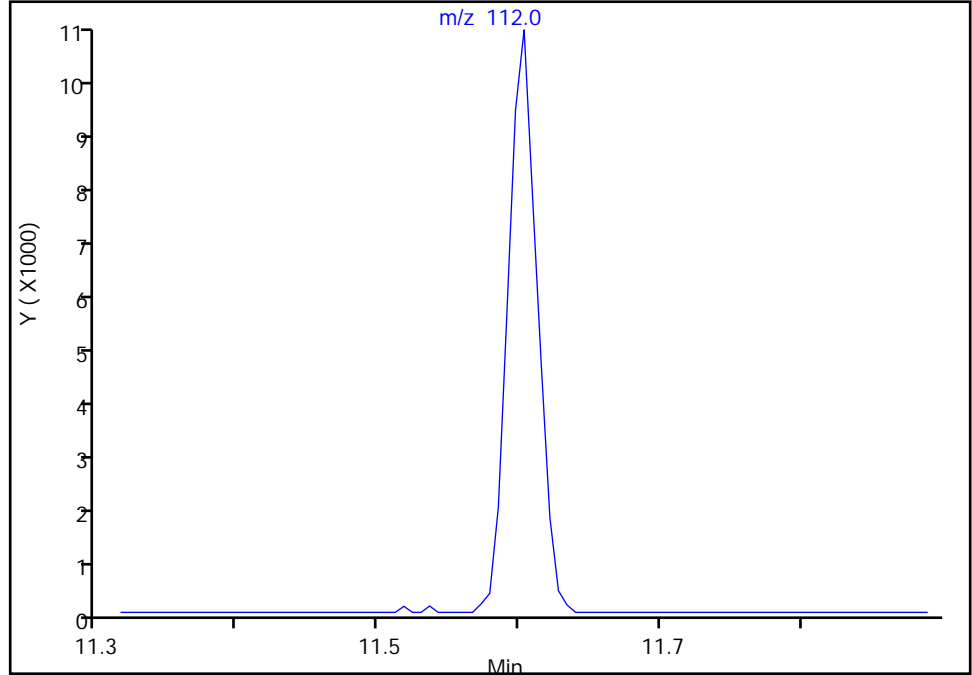
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Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

82 Chlorobenzene, CAS: 108-90-7

Signal: 1

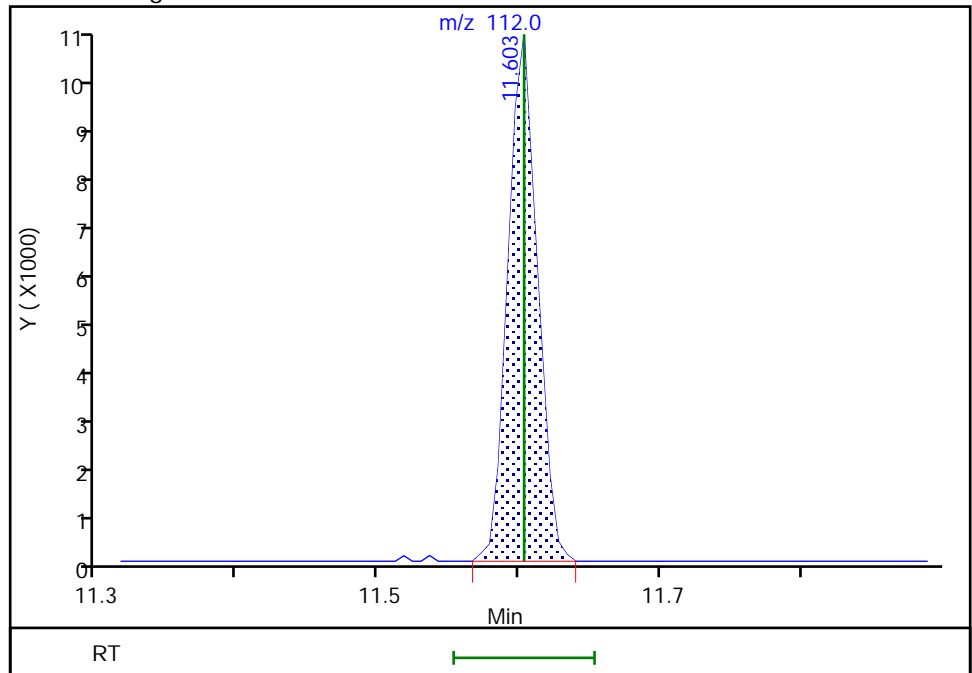
Not Detected  
Expected RT: 11.60

Processing Integration Results



Manual Integration Results

RT: 11.60  
Area: 15603  
Amount: 0.922192  
Amount Units: ug/L



Eurofins TestAmerica, Seattle

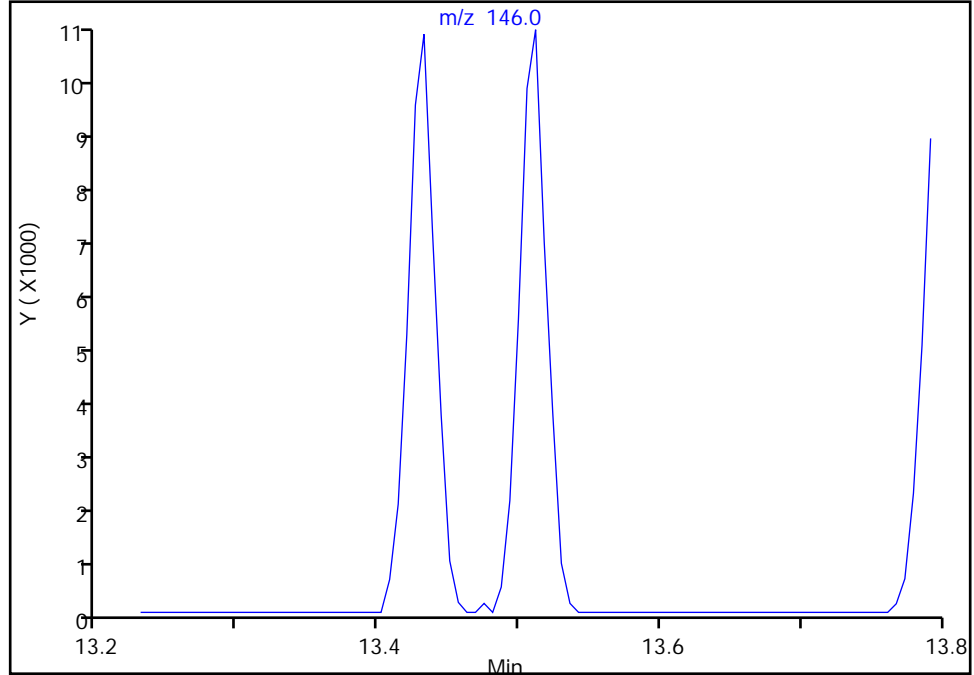
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Injection Date: 14-Jul-2020 16:08:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

104 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

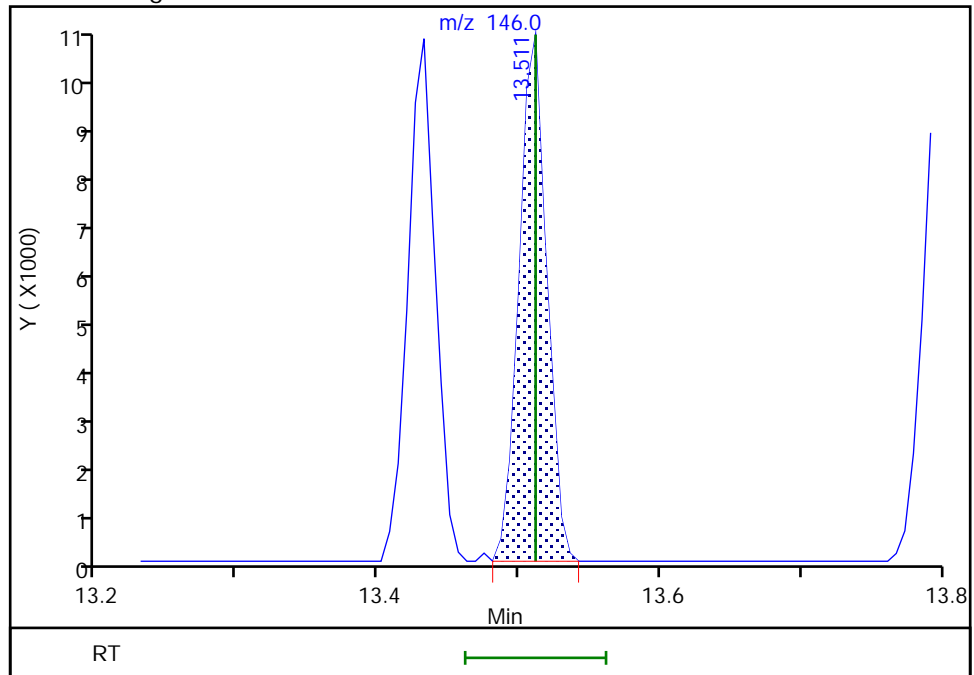
Not Detected  
Expected RT: 13.51

Processing Integration Results



Manual Integration Results

RT: 13.51  
Area: 14050  
Amount: 0.930125  
Amount Units: ug/L



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_005.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 14-Jul-2020 16:35:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 0.2  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Jul-2020 10:15:13 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1065

First Level Reviewer: limwirojt

Date: 15-Jul-2020 15:10:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.739	1.739	0.000	68	4819	2.00	2.06	M
4 Chloromethane	50	1.941	1.941	0.000	69	6924	2.00	1.97	
5 Vinyl chloride	62	2.069	2.069	0.000	35	6689	2.00	1.82	
6 Butadiene	54	2.124	2.124	0.000	72	5490	2.00	2.00	M
7 Bromomethane	94	2.495	2.495	0.000	74	6795	2.00	2.18	M
8 Chloroethane	66	2.605	2.605	0.000	59	2060	2.00	2.23	M
10 Dichlorofluoromethane	67	2.928	2.928	0.000	74	12125	2.00	1.91	
14 Trichlorofluoromethane	101	2.971	2.971	0.000	62	12693	2.00	2.02	M
11 3-Chloro-1-propene	76	2.977	2.977	0.000	36	906	2.00	2.10	
17 Ethyl ether	59	3.337	3.337	0.000	76	5652	2.00	1.86	M
12 Acrolein	56	3.532	3.532	0.000	86	5187	12.0	10.0	
19 1,1-Dichloroethene	96	3.709	3.709	0.000	71	7885	2.00	2.09	M
16 Acetone	43	3.751	3.751	0.000	94	12436	10.0	10.4	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.745	3.745	0.000	50	8877	2.00	2.04	M
22 Iodomethane	142	3.910	3.910	0.000	91	15850	2.00	2.03	M
26 Carbon disulfide	76	4.026	4.026	0.000	84	22157	2.00	1.82	M
S 2 Xylenes, Total	100				0			3.63	
15 Isopropyl alcohol	45	4.050	4.050	0.000	65	3727	20.0	19.5	
13 Acetonitrile	40	4.221	4.221	0.000	85	1454	25.0	21.2	
24 Methyl acetate	43	4.318	4.318	0.000	95	11128	4.00	4.05	
23 Methylene Chloride	84	4.556	4.556	0.000	67	10668	2.00	1.90	M
* 18 TBA-d9 (IS)	65	4.660	4.660	0.000	0	88501	200.0	200.0	
20 2-Methyl-2-propanol	59	4.824	4.824	0.000	84	8531	20.0	21.4	M
21 Acrylonitrile	53	4.989	4.989	0.000	100	20879	20.0	18.6	Ma
27 trans-1,2-Dichloroethene	96	5.056	5.056	0.000	78	10257	2.00	2.03	Ma
28 Methyl tert-butyl ether	73	5.086	5.086	0.000	80	22350	2.00	1.85	M
34 Hexane	57	5.647	5.647	0.000	78	12077	2.00	1.87	
30 1,1-Dichloroethane	63	5.897	5.897	0.000	63	14053	2.00	1.85	M
31 Vinyl acetate	86	5.995	5.995	0.000	97	3260	5.00	5.74	
32 2-Chloro-1,3-butadiene	53	6.044	6.044	0.000	70	11880	2.00	1.81	
35 Isopropyl ether	45	6.056	6.056	0.000	52	26496	2.50	2.26	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.708	6.708	0.000	91	13888	2.50	2.32	M
43 2,2-Dichloropropane	77	6.915	6.915	0.000	62	10728	2.00	1.92	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	78	11152	2.00	1.97	
33 2-Butanone (MEK)	72	6.946	6.934	0.012	84	5030	10.0	9.30	
29 Propionitrile	54	7.019	7.019	0.000	90	11391	25.0	24.2	
38 Ethyl acetate	43	7.062	7.062	0.000	87	12984	4.00	3.99	
36 Methacrylonitrile	67	7.269	7.269	0.000	87	30469	20.0	18.2	
39 Chlorobromomethane	130	7.305	7.305	0.000	59	7580	2.00	1.92	
40 Chloroform	83	7.507	7.507	0.000	76	15659	2.00	1.84	
48 1,1,1-Trichloroethane	97	7.714	7.714	0.000	64	15245	2.00	2.00	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.738	0.000	69	50807	10.0	10.1	
51 Cyclohexane	84	7.793	7.793	0.000	78	14079	2.00	1.93	
52 Carbon tetrachloride	117	7.927	7.927	0.000	77	14134	2.00	1.93	
50 1,1-Dichloropropene	75	7.946	7.946	0.000	90	13222	2.00	1.96	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	47086	10.0	10.2	
53 Benzene	78	8.202	8.202	0.000	96	38812	2.00	1.91	
42 Isobutyl alcohol	43	8.202	8.202	0.000	39	6680	50.0	45.4	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	87	10993	2.00	1.92	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	95	27193	2.50	2.25	
* 55 Fluorobenzene (IS)	96	8.598	8.598	0.000	99	203227	10.0	10.0	
56 n-Heptane	43	8.634	8.634	0.000	73	11516	2.00	1.84	
45 Tetrahydrofuran	42	8.628	8.628	0.000	1	3164	4.00	3.87	
61 Trichloroethene	132	9.025	9.025	0.000	83	12975	2.00	1.95	
57 Ethyl acrylate	55	9.159	9.159	0.000	81	7836	2.00	1.78	
49 n-Butanol	56	9.256	9.256	0.000	36	3957	50.0	50.6	
66 Methylcyclohexane	83	9.262	9.262	0.000	84	17305	2.00	1.85	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	86	8546	2.00	1.94	a
59 Dibromomethane	174	9.390	9.390	0.000	70	8638	2.00	1.99	
63 Methyl methacrylate	69	9.397	9.397	0.000	76	10721	4.00	3.76	
62 Dichlorobromomethane	83	9.585	9.585	0.000	92	11871	2.00	1.86	
58 2-Nitropropane	43	9.799	9.799	0.000	91	4031	4.00	3.57	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	64	3204	2.00	1.85	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	76	12331	2.00	1.72	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	95	12665	10.0	8.23	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	93	201809	10.0	9.86	
74 Toluene	91	10.341	10.341	0.000	91	45846	2.00	1.93	
70 n-Butyl acetate	43	10.476	10.476	0.000	48	956	2.00	1.84	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	83	11665	2.00	1.82	
73 Ethyl methacrylate	69	10.622	10.622	0.000	81	7209	2.00	1.57	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	85	8628	2.00	1.98	
79 Tetrachloroethene	164	10.817	10.817	0.000	88	11944	2.00	1.98	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	80	13003	2.00	1.95	
76 2-Hexanone	58	10.933	10.933	0.000	96	12275	10.0	8.10	
77 Chlorodibromomethane	129	11.079	11.079	0.000	81	9925	2.00	1.85	
78 Ethylene Dibromide	107	11.171	11.171	0.000	90	8253	2.00	1.91	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	82	171699	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	88	30044	2.00	1.87	a
80 1,1,1,2-Tetrachloroethane	131	11.677	11.677	0.000	48	10770	2.00	1.87	
83 Ethylbenzene	91	11.683	11.683	0.000	97	48539	2.00	1.89	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	34469	2.00	1.81	
88 o-Xylene	91	12.115	12.115	0.000	92	34095	2.00	1.82	
86 Styrene	104	12.134	12.134	0.000	93	27908	2.00	1.79	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	89	7620	2.00	1.89	
91 Isopropylbenzene	105	12.414	12.414	0.000	94	46554	2.00	1.85	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.561	12.561	0.000	95	81094	10.0	9.88	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	91	9368	2.00	1.94	
93 Bromobenzene	156	12.682	12.682	0.000	80	13870	2.00	1.85	
89 trans-1,4-Dichloro-2-butene	53	12.689	12.689	0.000	50	2497	2.00	1.92	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	32	3269	2.00	1.86	
94 N-Propylbenzene	91	12.750	12.750	0.000	88	51881	2.00	1.85	
95 2-Chlorotoluene	126	12.829	12.829	0.000	95	13072	2.00	1.99	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	93	36976	2.00	1.85	
96 4-Chlorotoluene	126	12.926	12.926	0.000	79	12581	2.00	1.89	
98 tert-Butylbenzene	119	13.146	13.146	0.000	87	34245	2.00	1.83	
99 1,2,4-Trimethylbenzene	105	13.195	13.195	0.000	63	36181	2.00	1.92	
100 sec-Butylbenzene	105	13.323	13.323	0.000	88	50017	2.00	1.85	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	97	26081	2.00	1.87	
105 4-Isopropyltoluene	119	13.445	13.445	0.000	96	43116	2.00	1.79	
* 103 1,4-Dichlorobenzene-d4	152	13.487	13.487	0.000	89	95080	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.512	13.512	0.000	92	26632	2.00	1.89	a
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	59	37075	2.00	1.84	
101 Benzyl chloride	126	13.591	13.591	0.000	90	3894	2.00	1.78	
108 n-Butylbenzene	134	13.762	13.762	0.000	95	12009	2.00	1.85	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	91	25578	2.00	1.97	
109 1,2-Dibromo-3-Chloropropane	157	14.402	14.402	0.000	52	2443	2.00	1.97	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	96	21706	2.00	1.89	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	88	16706	2.00	1.78	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	81	13721	2.00	2.04	
112 Naphthalene	128	15.249	15.249	0.000	91	26632	2.00	1.72	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	89	15873	2.00	1.91	

### QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 0.20

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_005.D

Injection Date: 14-Jul-2020 16:35:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 5

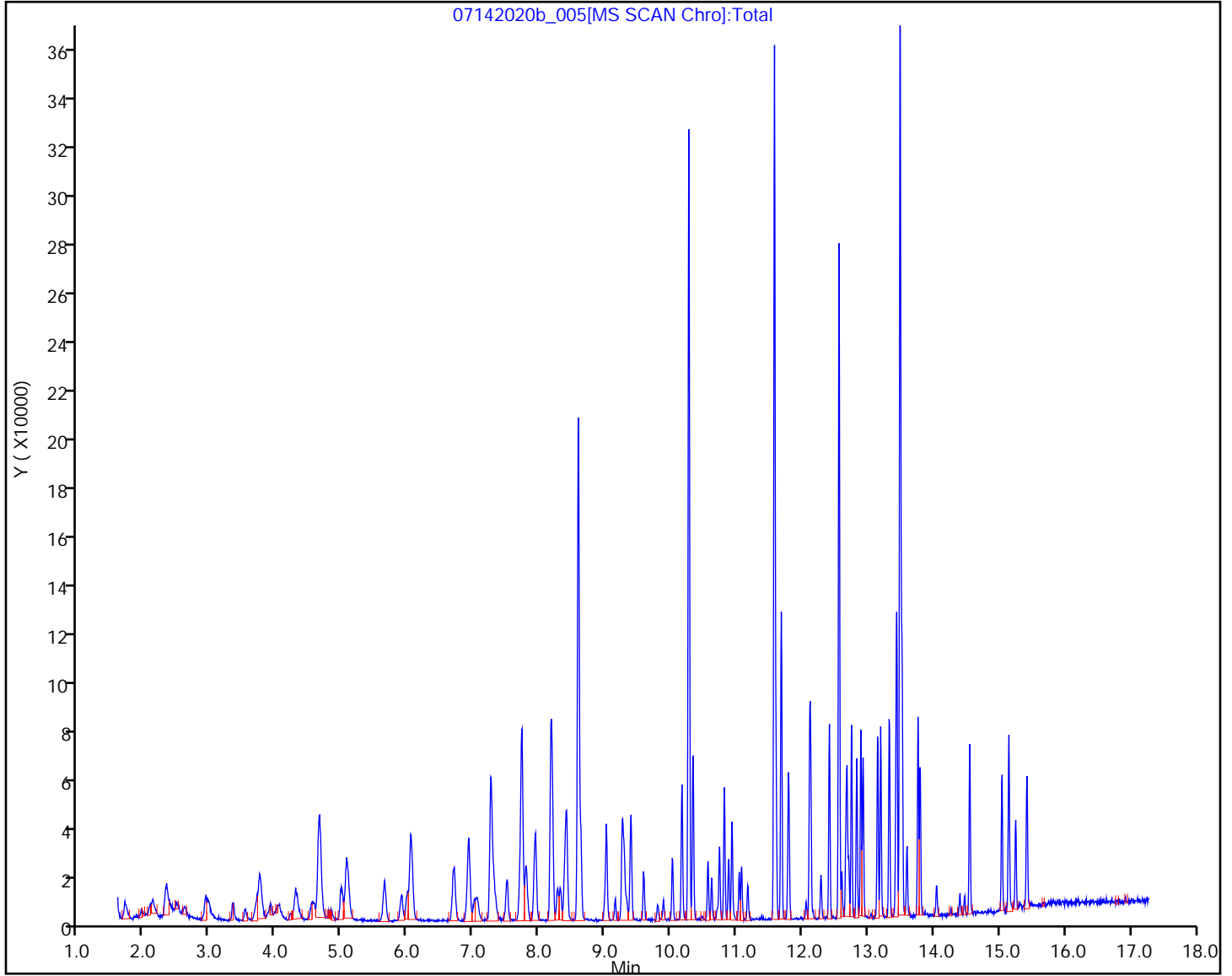
Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

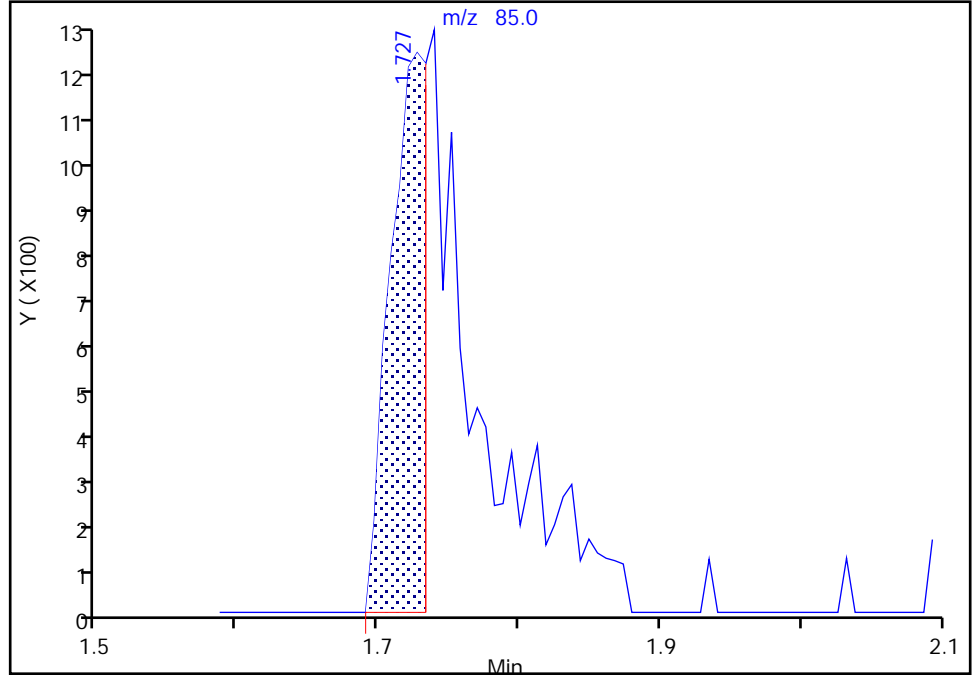
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Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

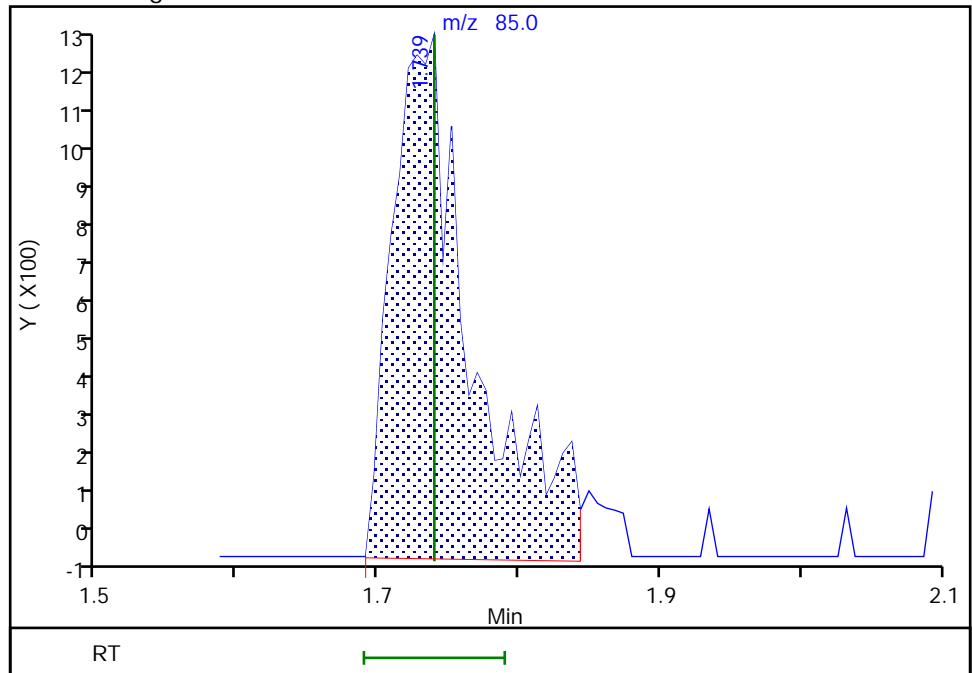
RT: 1.73  
Area: 2136  
Amount: 1.043179  
Amount Units: ug/L

Processing Integration Results



RT: 1.74  
Area: 4819  
Amount: 2.061665  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 08:56:52  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

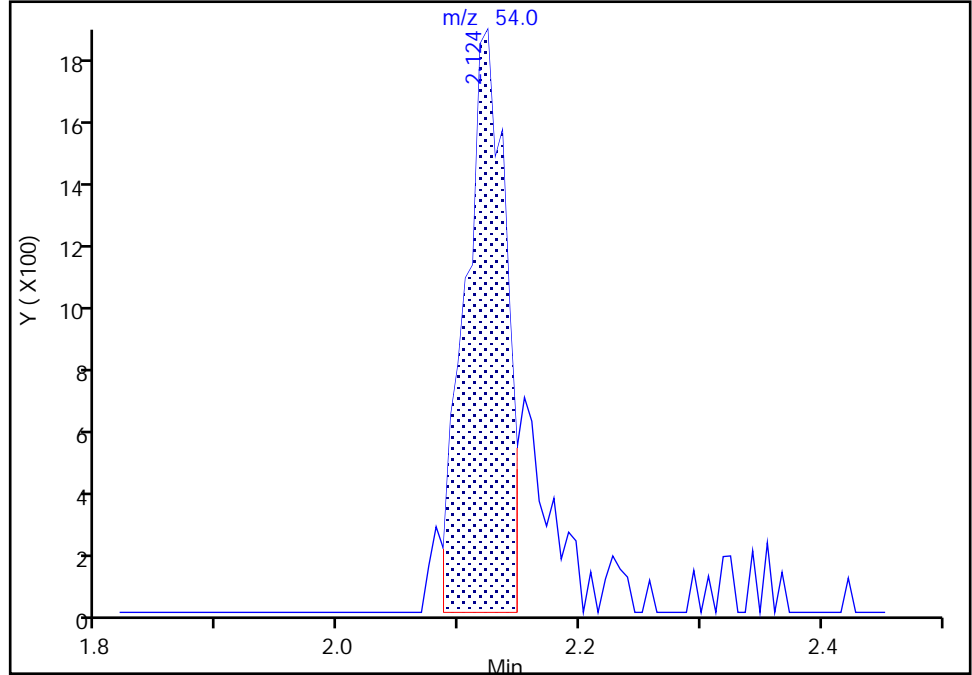
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Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

6 Butadiene, CAS: 106-99-0

Signal: 1

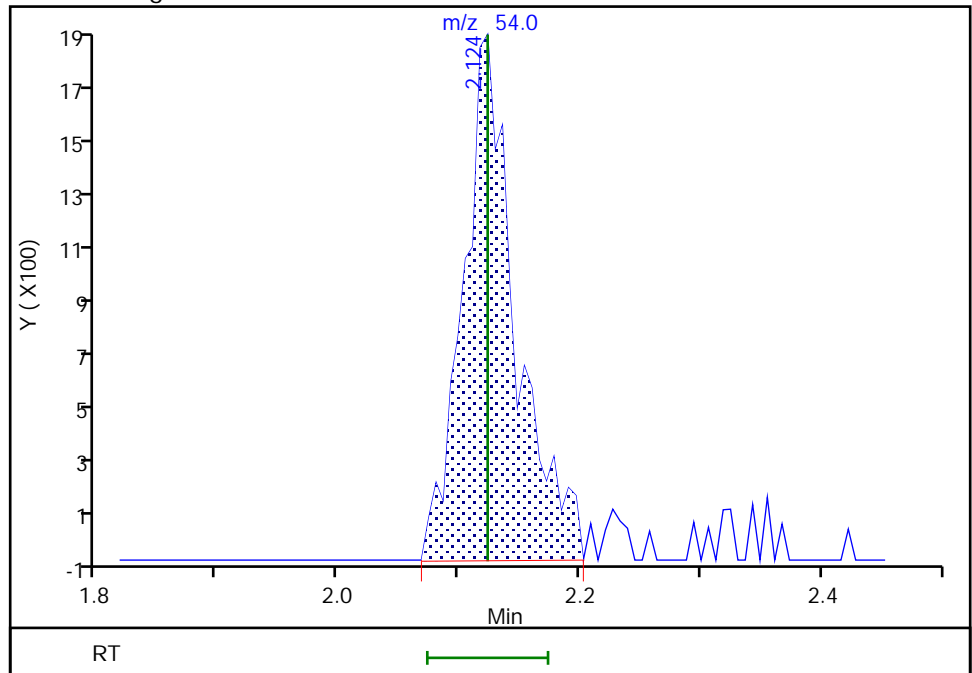
RT: 2.12  
Area: 4271  
Amount: 1.602567  
Amount Units: ug/L

Processing Integration Results



RT: 2.12  
Area: 5490  
Amount: 2.002709  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:01:13  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 258 of 425

Eurofins TestAmerica, Seattle

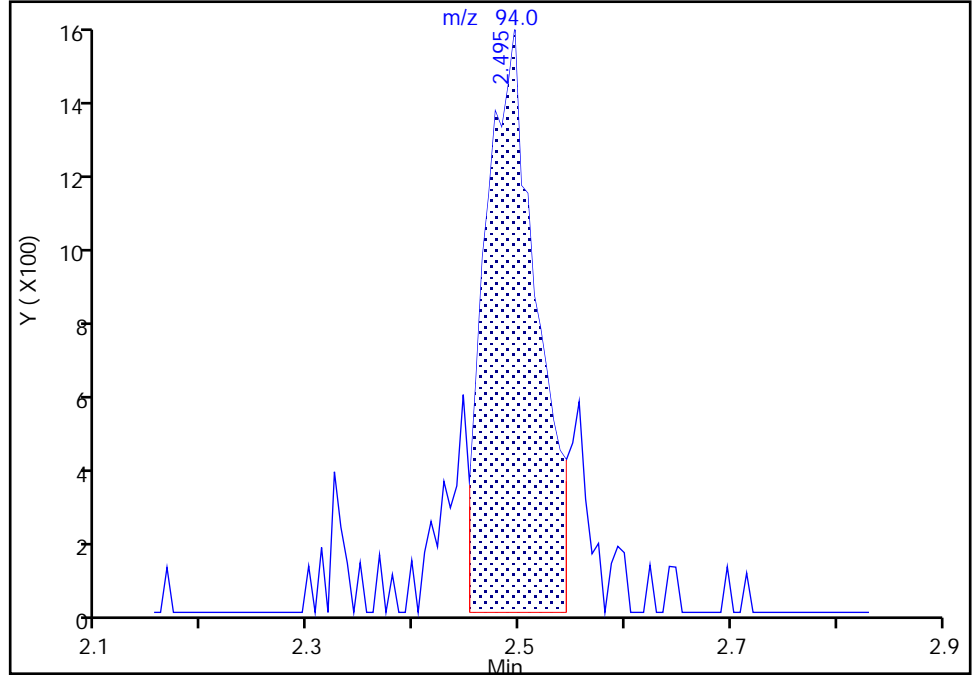
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Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

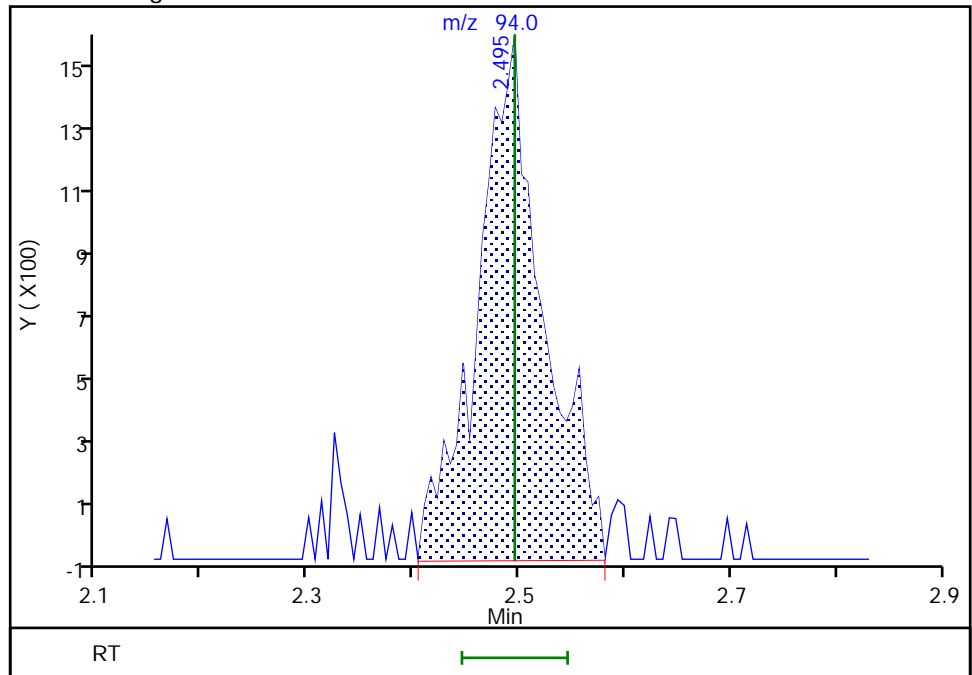
RT: 2.50  
Area: 5349  
Amount: 1.896464  
Amount Units: ug/L

Processing Integration Results



RT: 2.50  
Area: 6795  
Amount: 2.177658  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:01:24  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

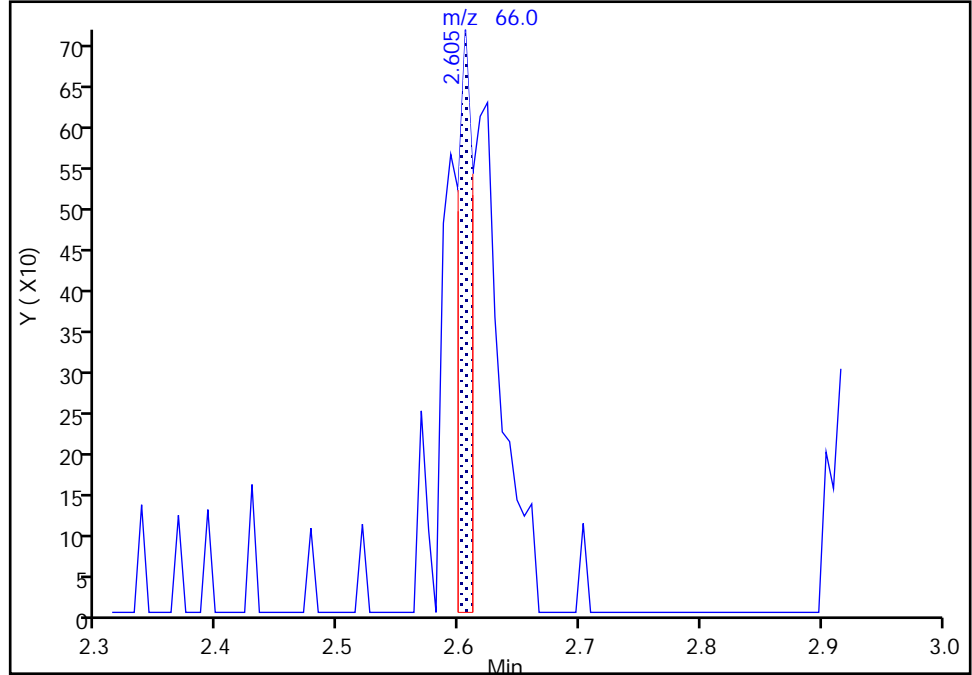
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_005.D  
Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Signal: 1

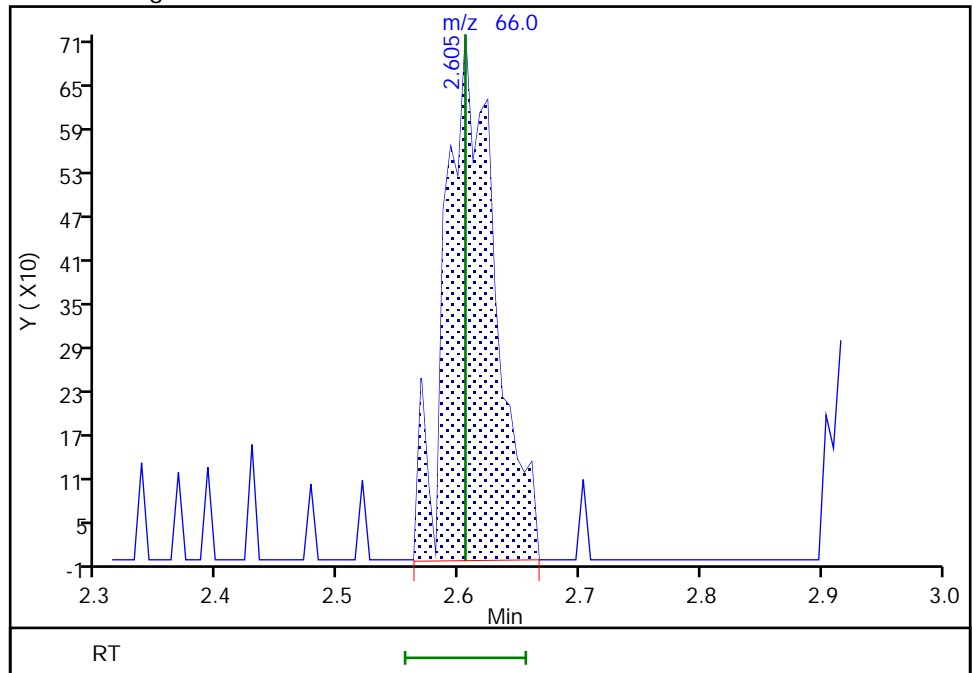
RT: 2.61  
Area: 652  
Amount: 0.900624  
Amount Units: ug/L

Processing Integration Results



RT: 2.61  
Area: 2060  
Amount: 2.231984  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:01:31  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

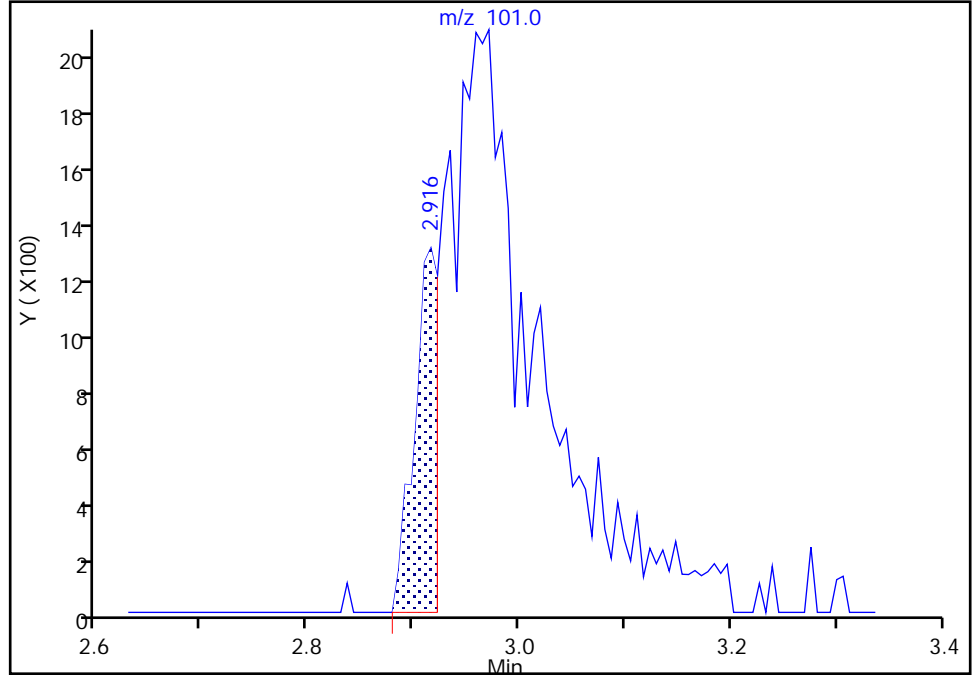
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_005.D  
Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

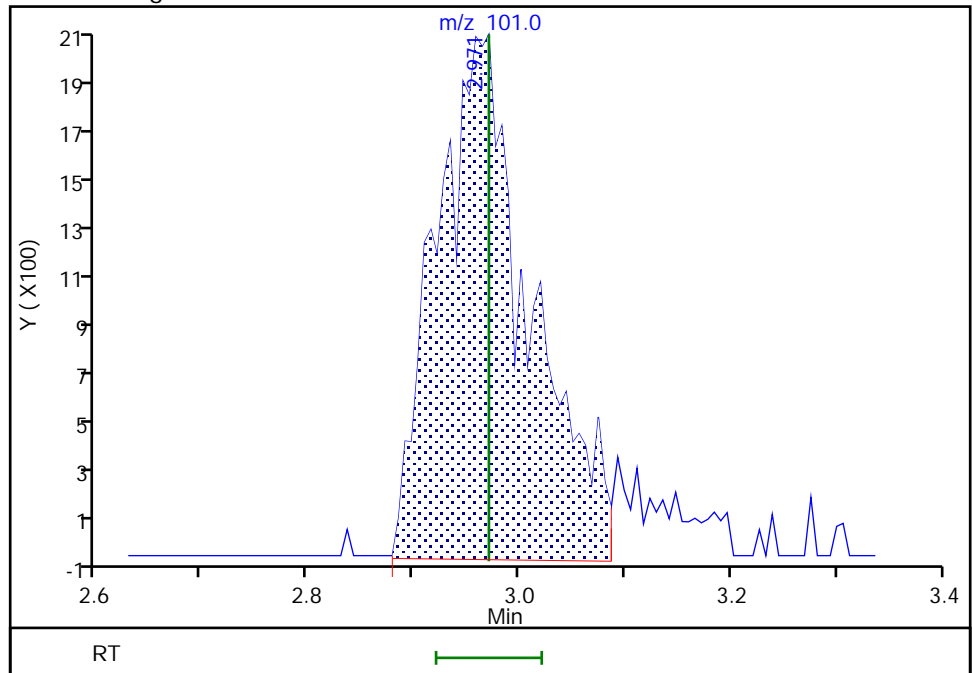
RT: 2.92  
Area: 2013  
Amount: 0.413864  
Amount Units: ug/L

Processing Integration Results



RT: 2.97  
Area: 12693  
Amount: 2.024072  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:01:48  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

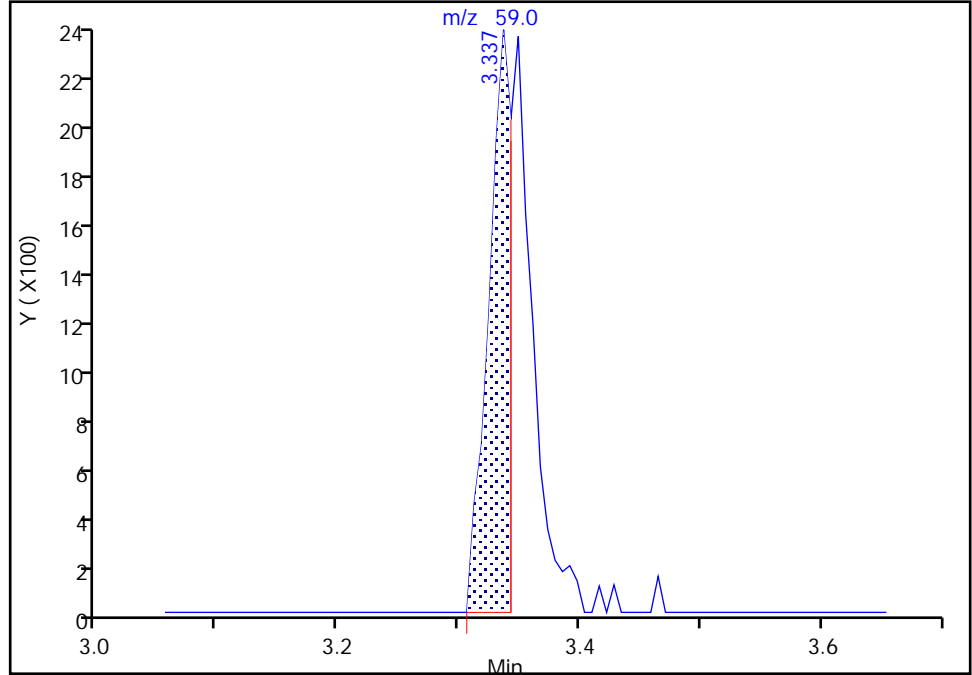
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Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

17 Ethyl ether, CAS: 60-29-7

Signal: 1

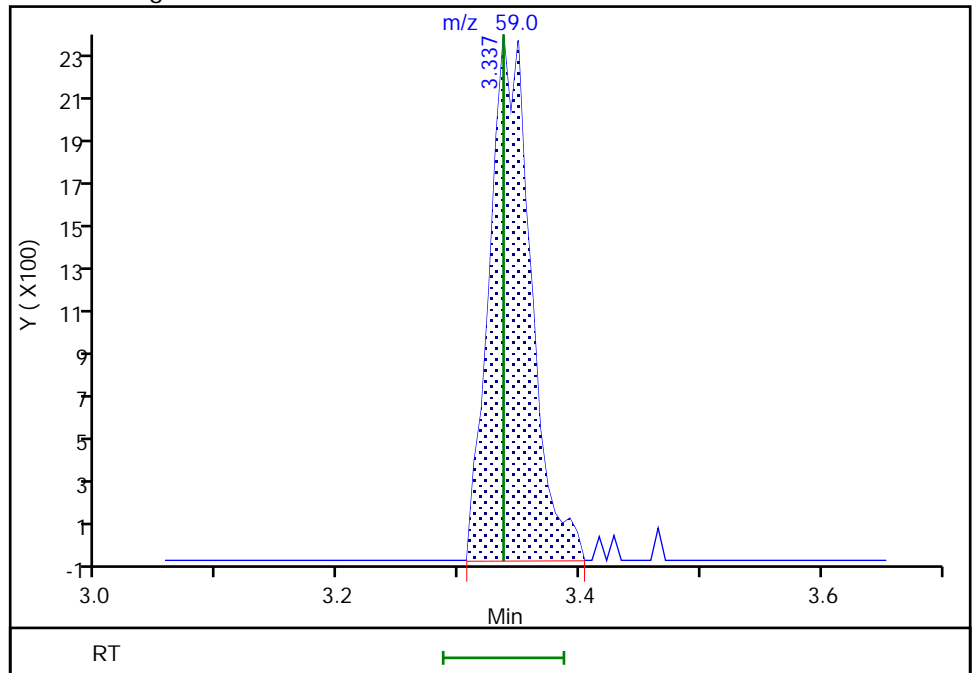
RT: 3.34  
Area: 3160  
Amount: 1.095040  
Amount Units: ug/L

Processing Integration Results



RT: 3.34  
Area: 5652  
Amount: 1.858301  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:01:55  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

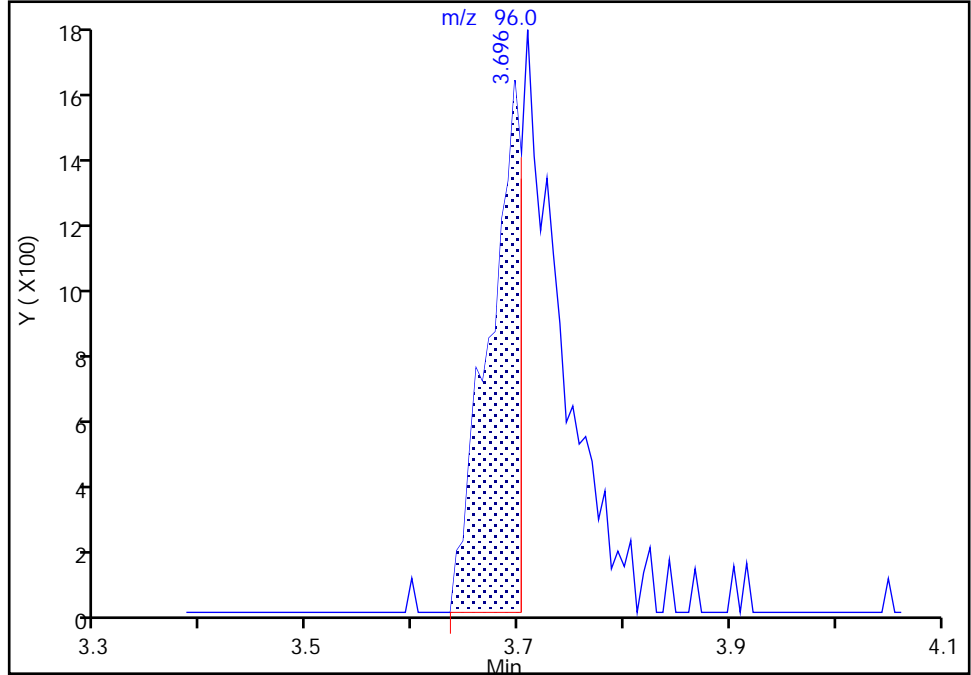
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Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

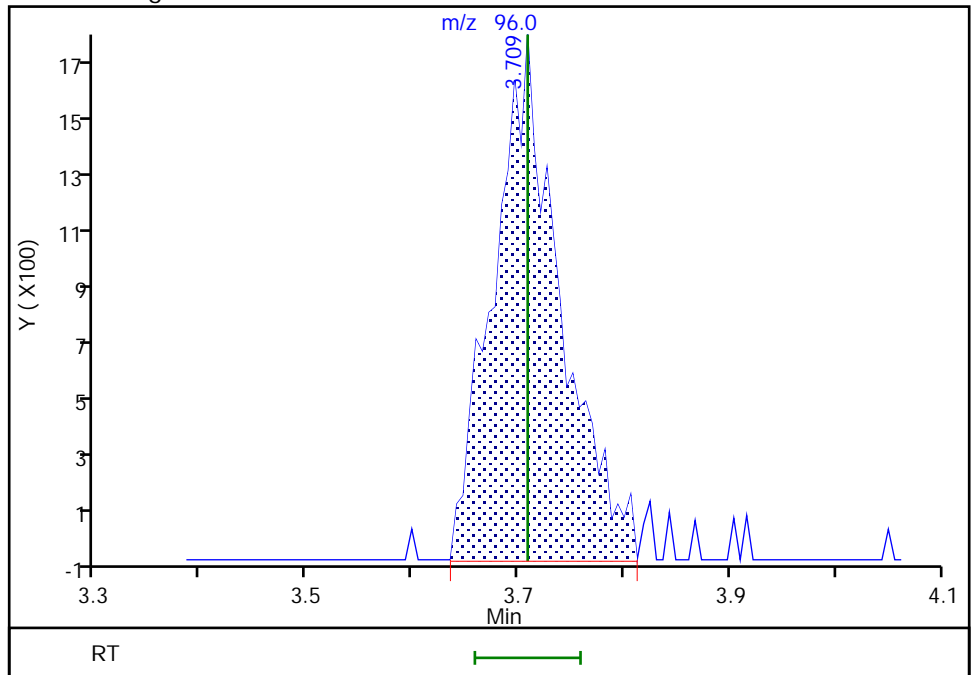
RT: 3.70  
Area: 3526  
Amount: 1.031848  
Amount Units: ug/L

Processing Integration Results



RT: 3.71  
Area: 7885  
Amount: 2.094265  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:02:06  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

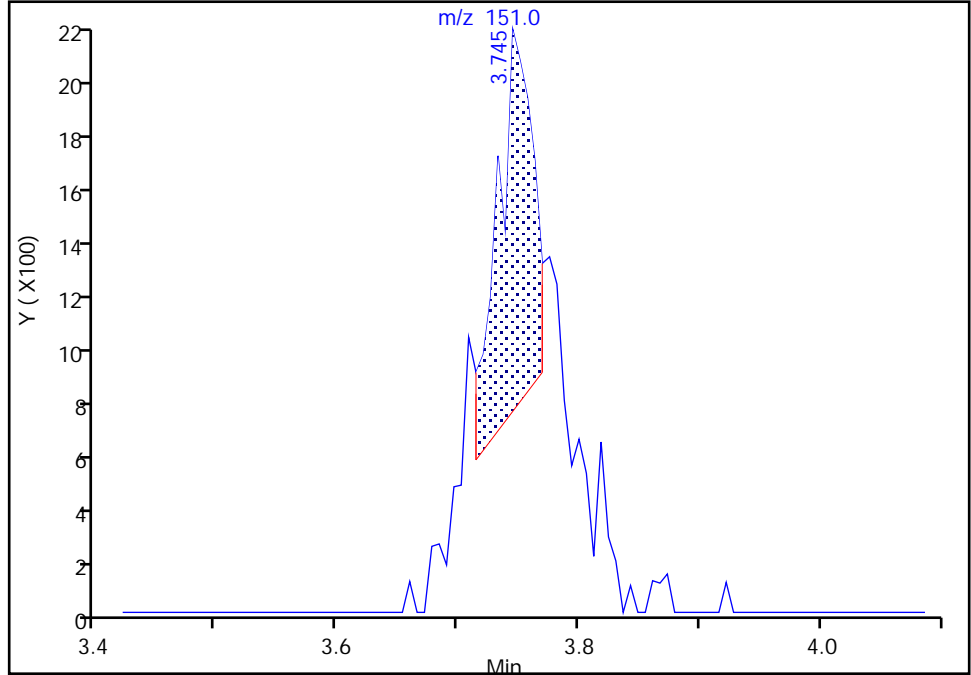
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Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

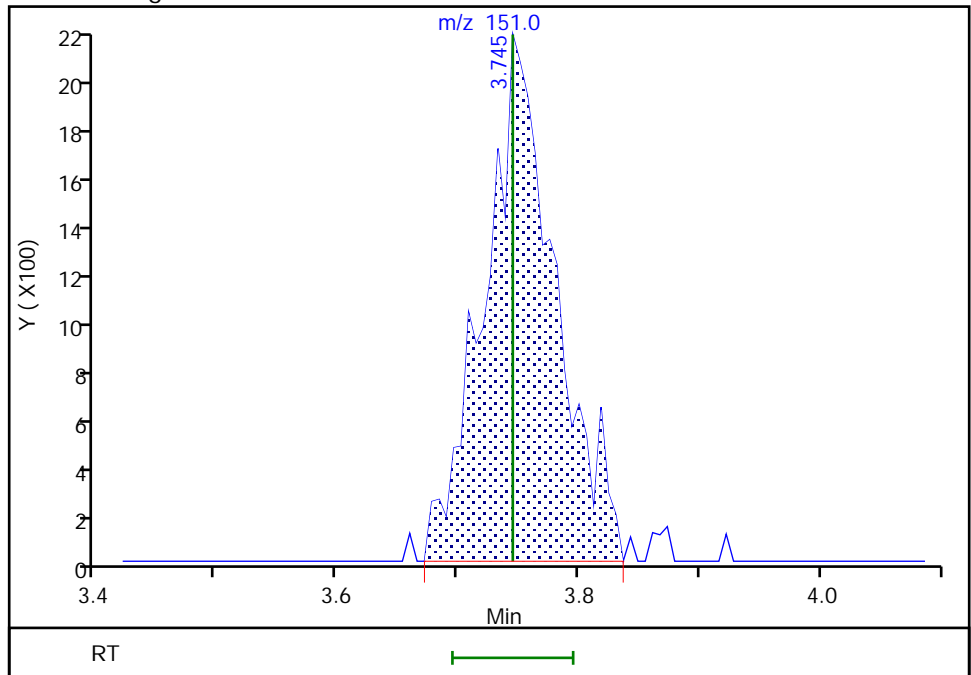
RT: 3.75  
Area: 2906  
Amount: 0.728580  
Amount Units: ug/L

Processing Integration Results



RT: 3.75  
Area: 8877  
Amount: 2.035185  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:02:25  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

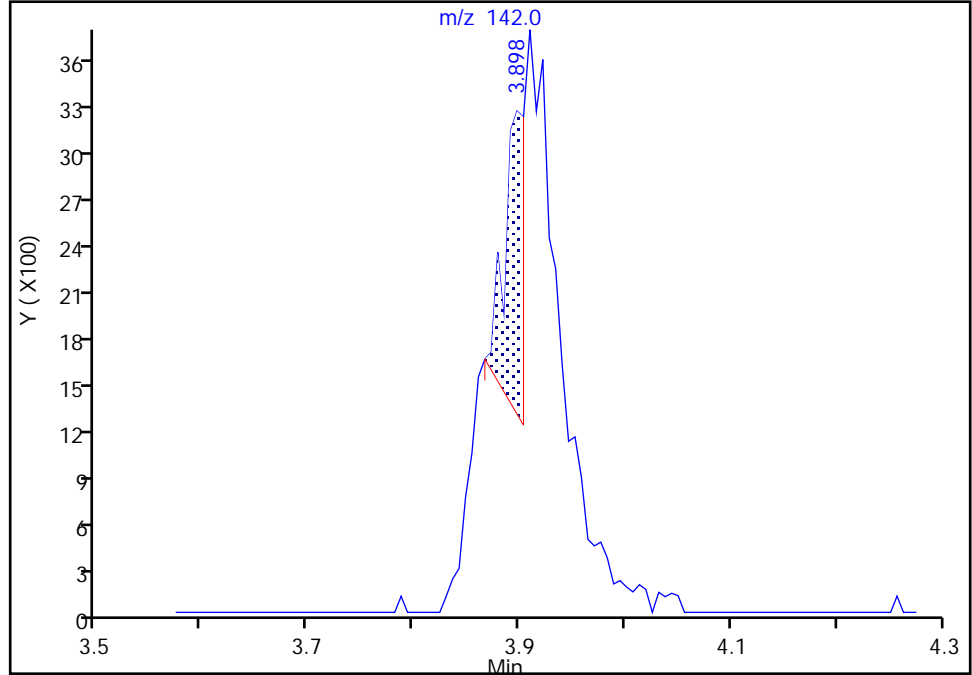
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_005.D  
Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

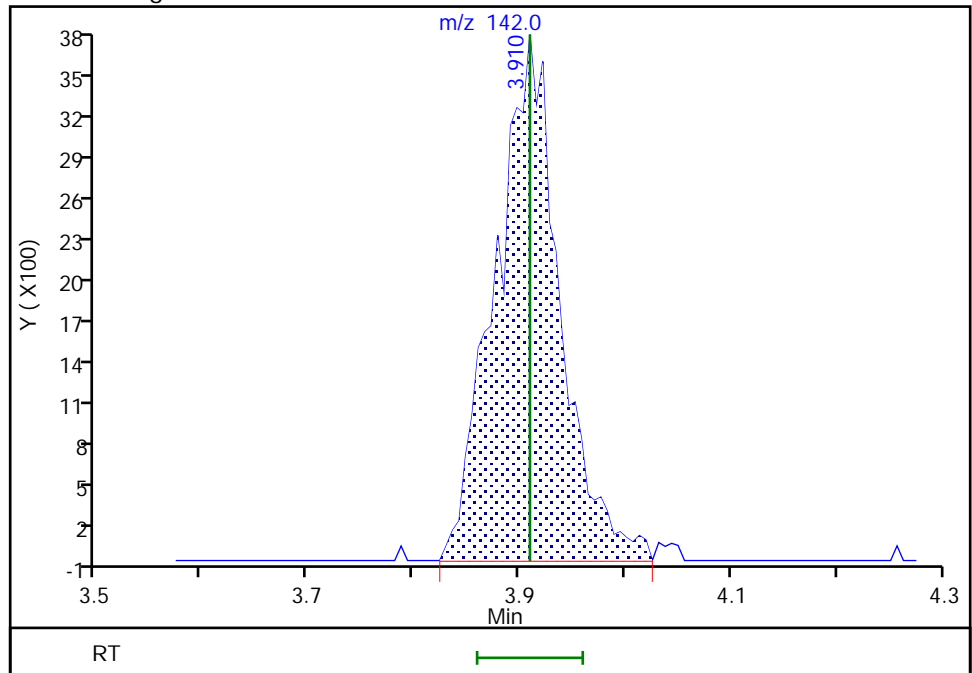
RT: 3.90  
Area: 2574  
Amount: 0.368600  
Amount Units: ug/L

Processing Integration Results



RT: 3.91  
Area: 15850  
Amount: 2.028690  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:02:32  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

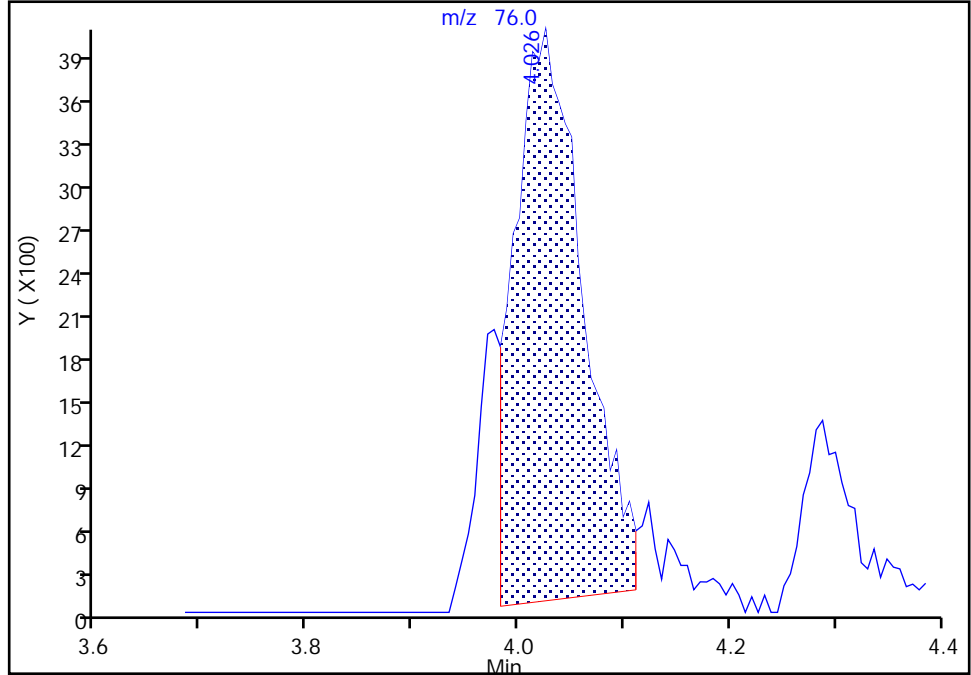
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_005.D  
Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

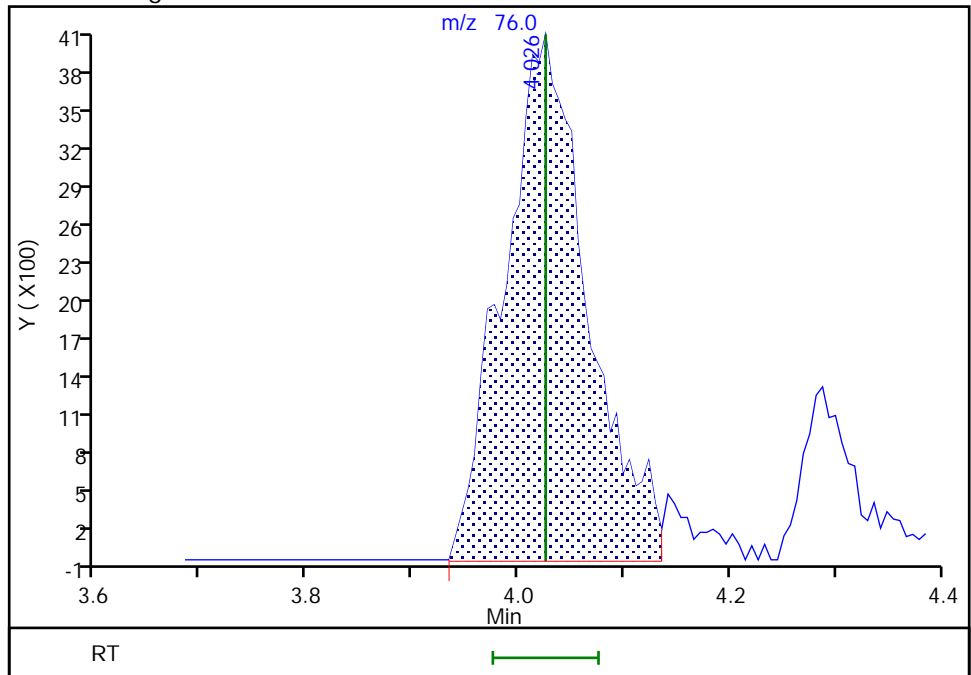
RT: 4.03  
Area: 17876  
Amount: 1.682970  
Amount Units: ug/L

Processing Integration Results



RT: 4.03  
Area: 22157  
Amount: 1.820250  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:02:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

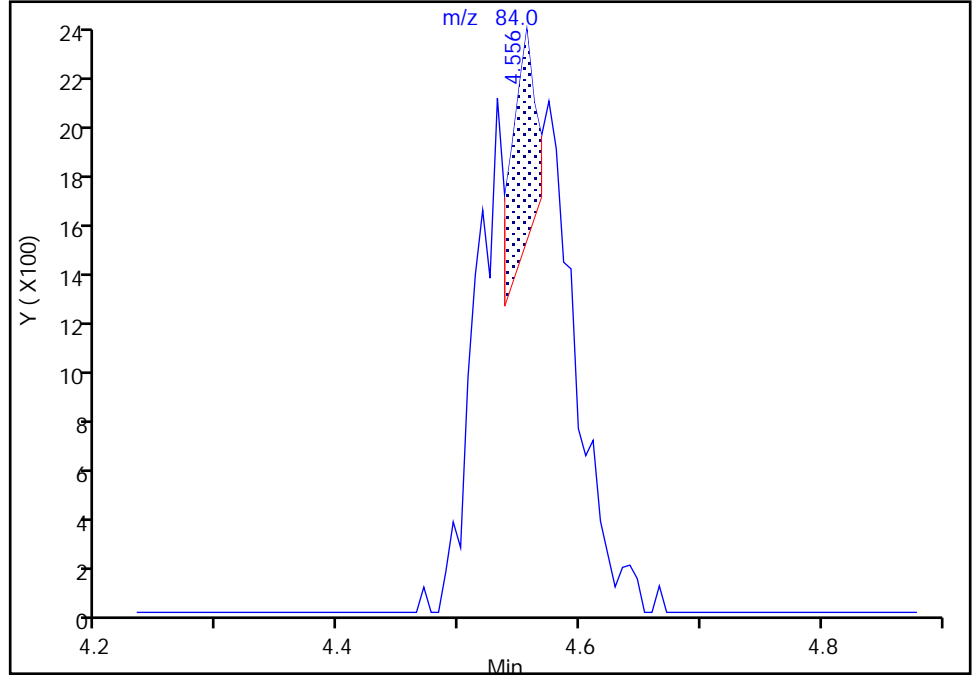
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_005.D  
Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

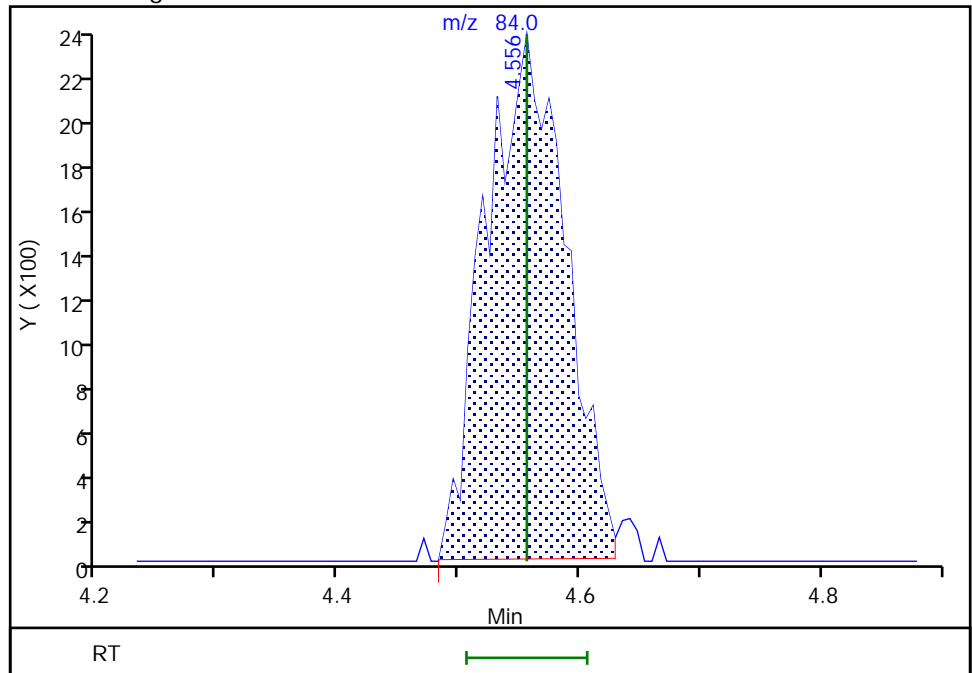
RT: 4.56  
Area: 1191  
Amount: 0.319731  
Amount Units: ug/L

Processing Integration Results



RT: 4.56  
Area: 10668  
Amount: 1.895805  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:02:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

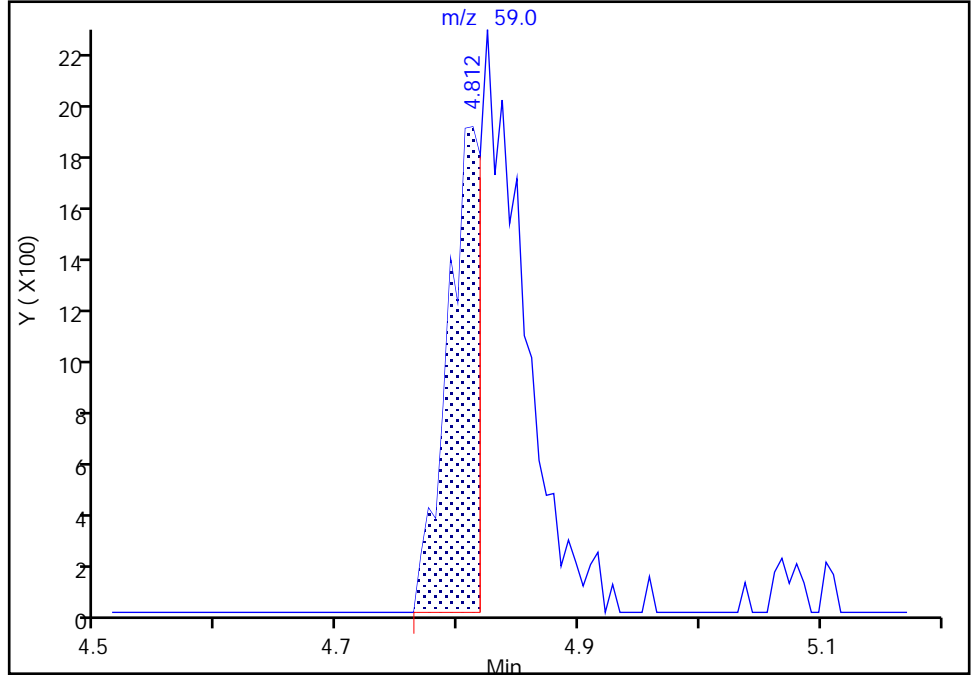
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Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

20 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

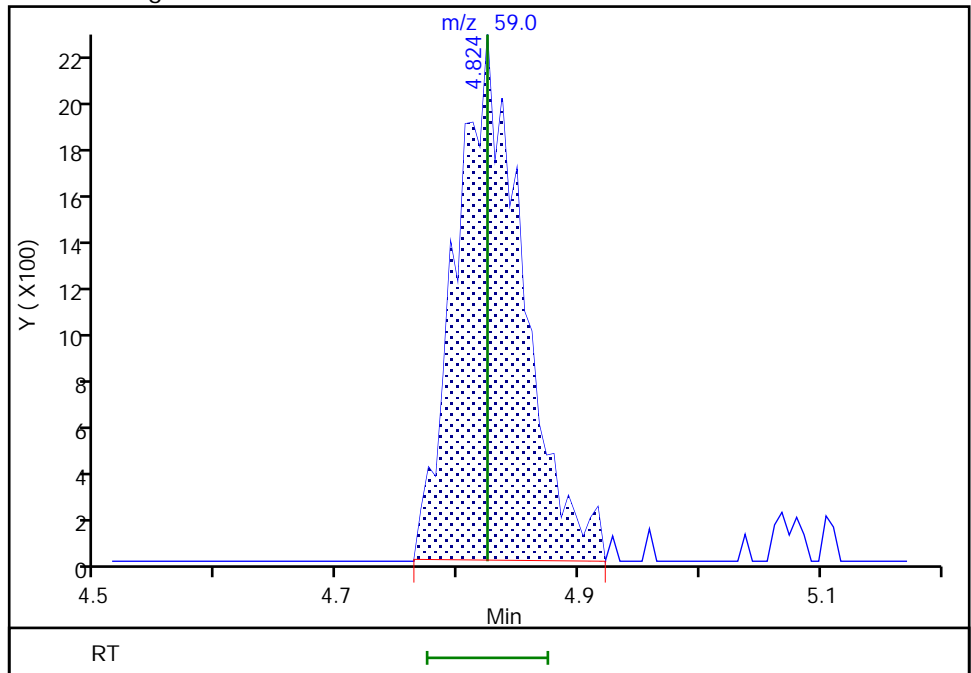
RT: 4.81  
Area: 3563  
Amount: 11.524242  
Amount Units: ug/L

Processing Integration Results



RT: 4.82  
Area: 8531  
Amount: 21.425578  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:03:06  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

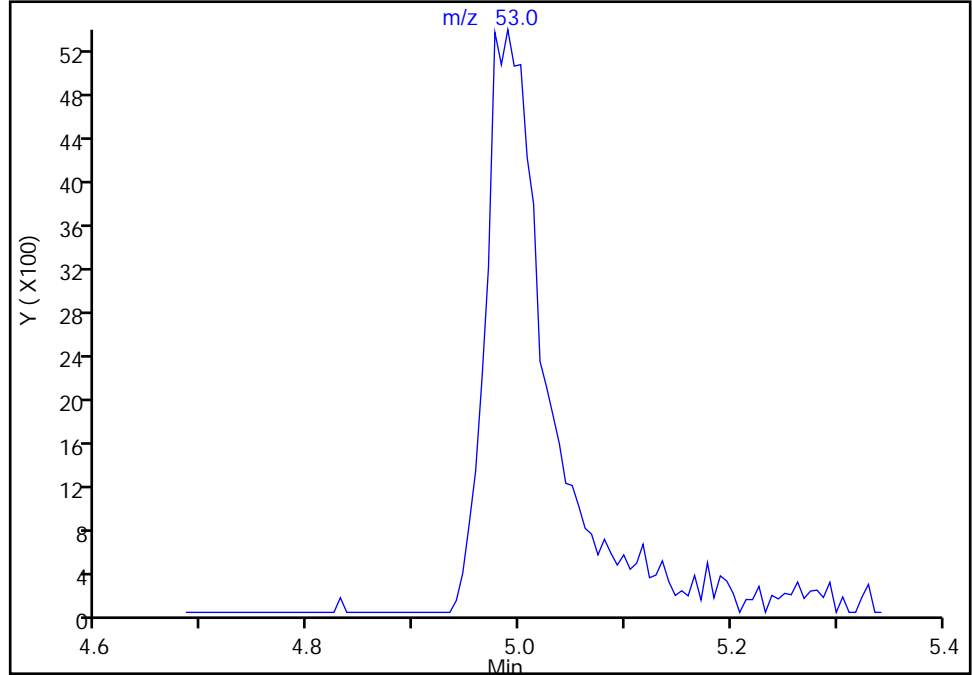
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Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

21 Acrylonitrile, CAS: 107-13-1

Signal: 1

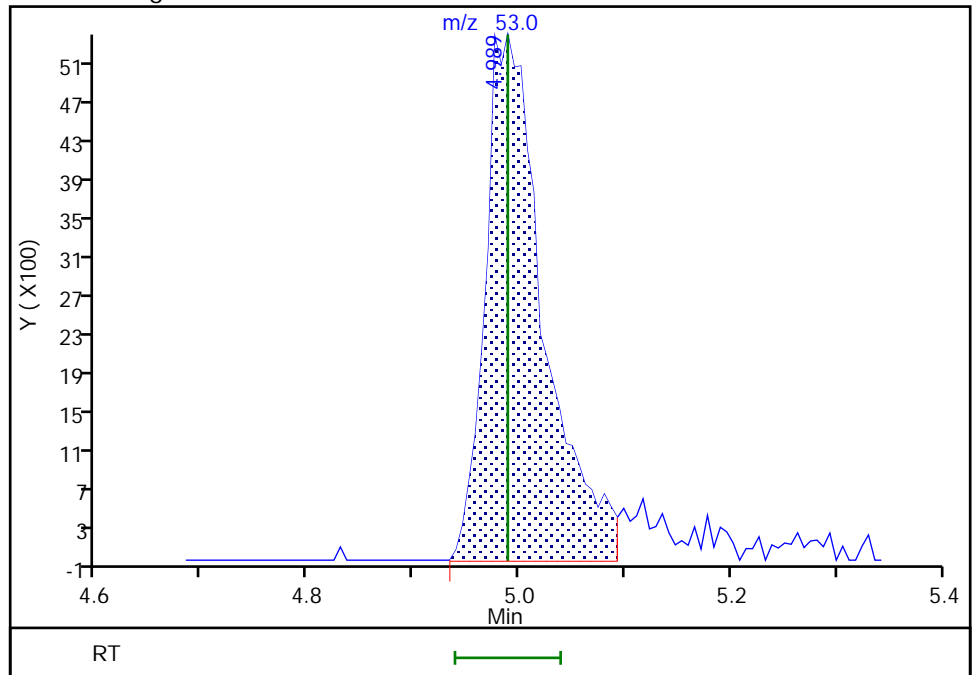
Not Detected  
Expected RT: 4.99

Processing Integration Results



Manual Integration Results

RT: 4.99  
Area: 20879  
Amount: 18.594043  
Amount Units: ug/L





Eurofins TestAmerica, Seattle

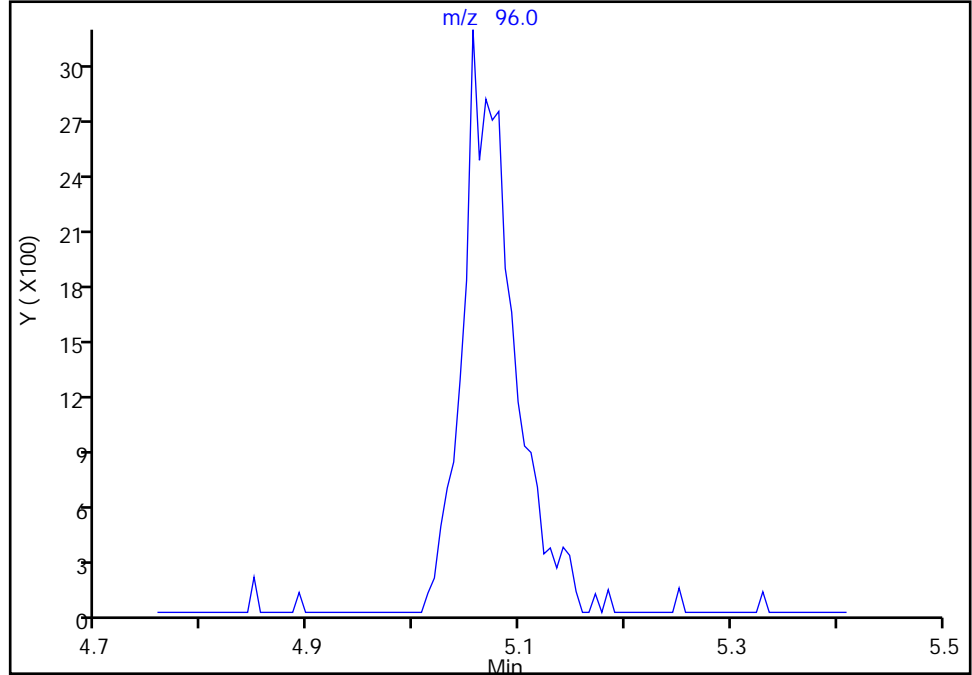
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_005.D  
Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

27 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

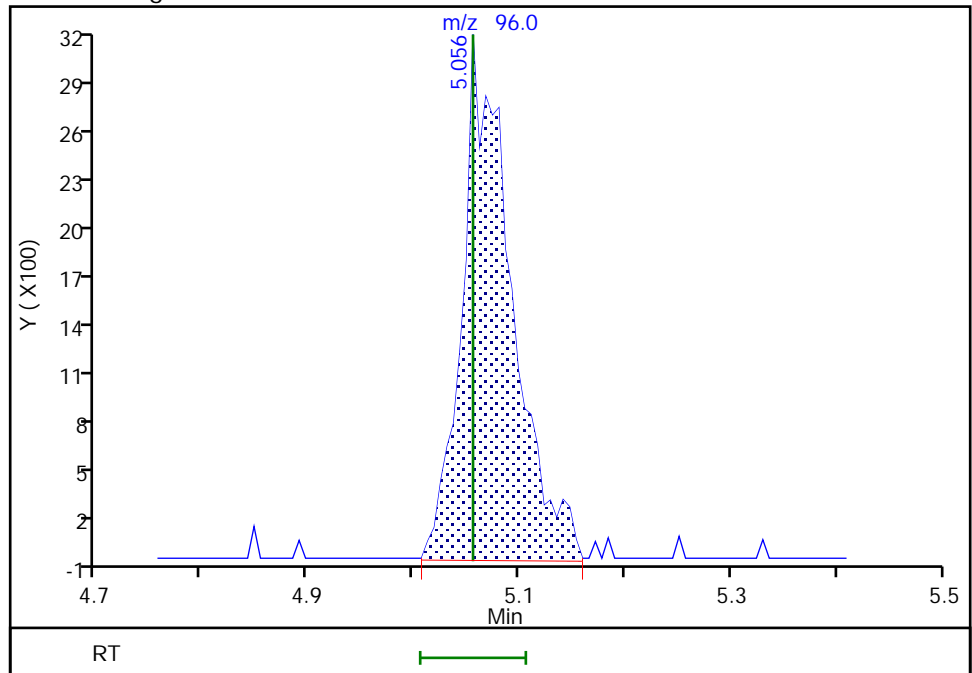
Not Detected  
Expected RT: 5.06

Processing Integration Results



Manual Integration Results

RT: 5.06  
Area: 10257  
Amount: 2.028984  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 15:03:50  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

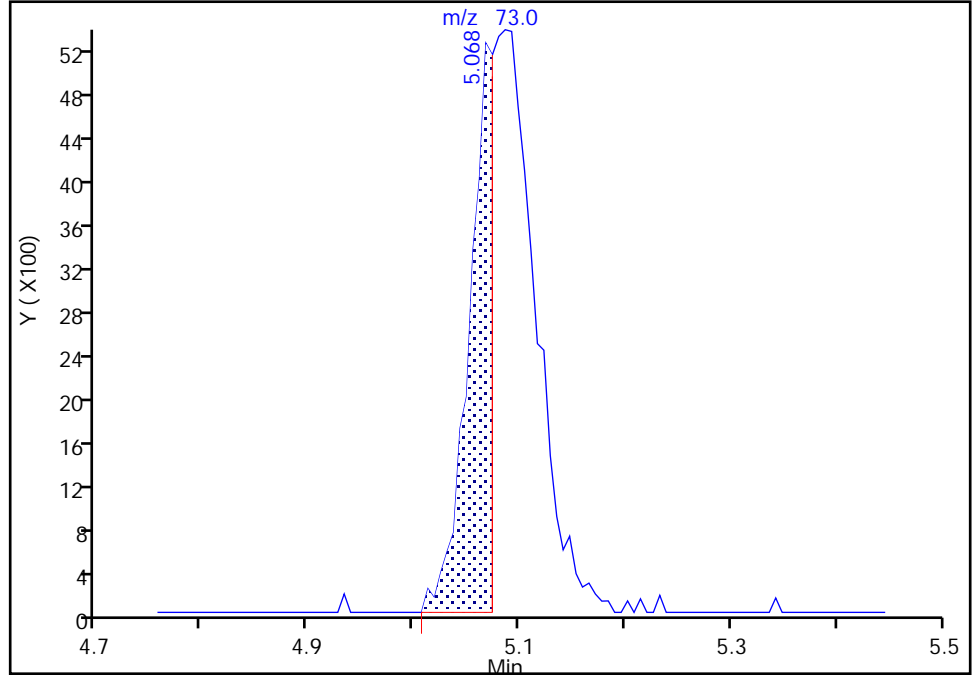
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Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

28 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

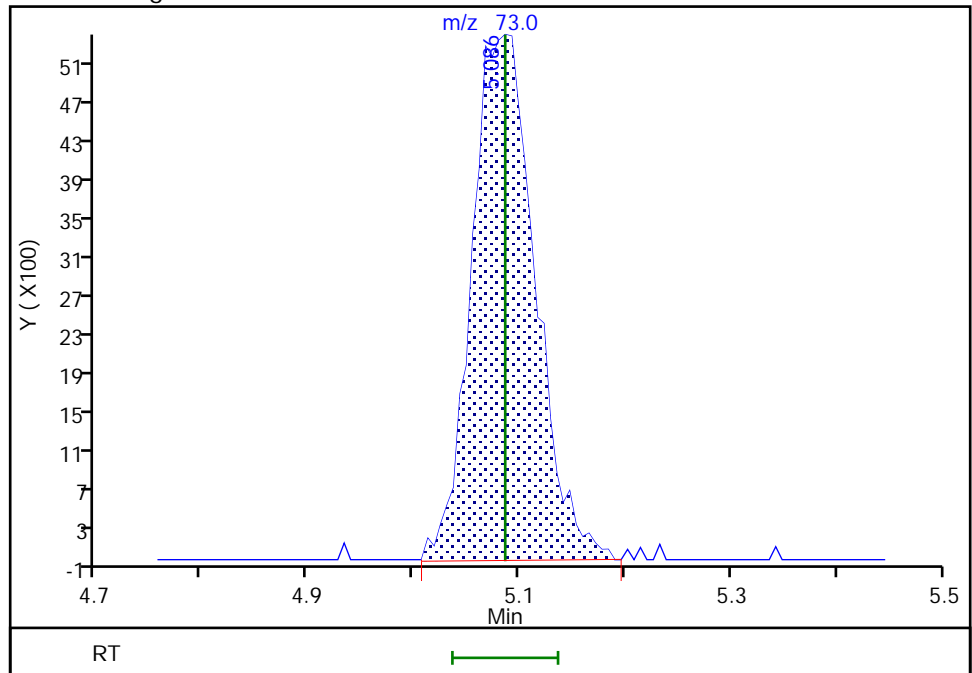
RT: 5.07  
Area: 8512  
Amount: 0.760587  
Amount Units: ug/L

Processing Integration Results



RT: 5.09  
Area: 22350  
Amount: 1.853814  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:04:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

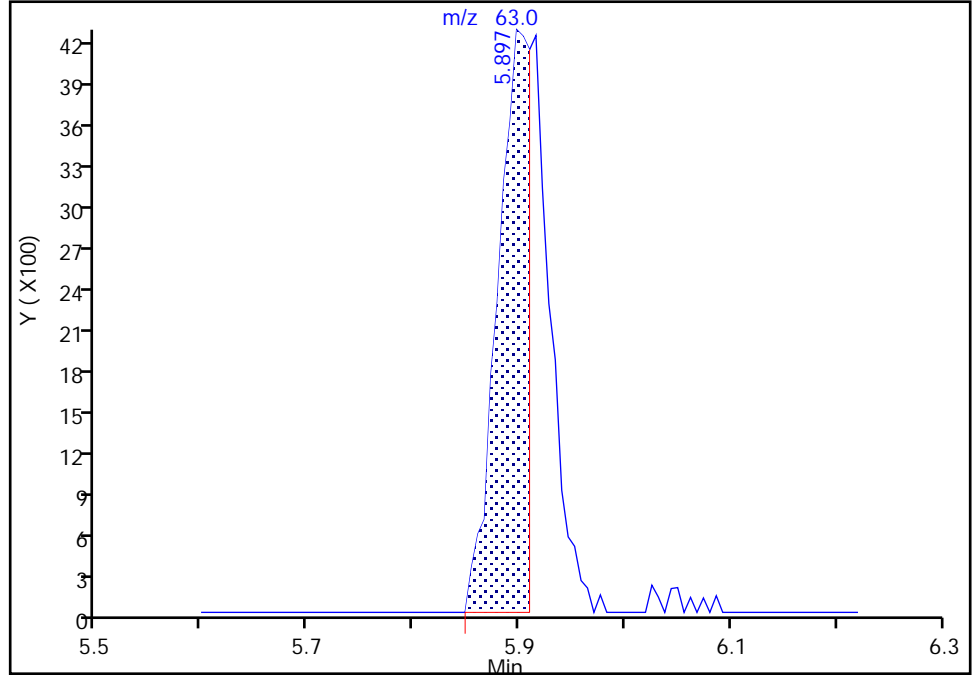
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Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

30 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

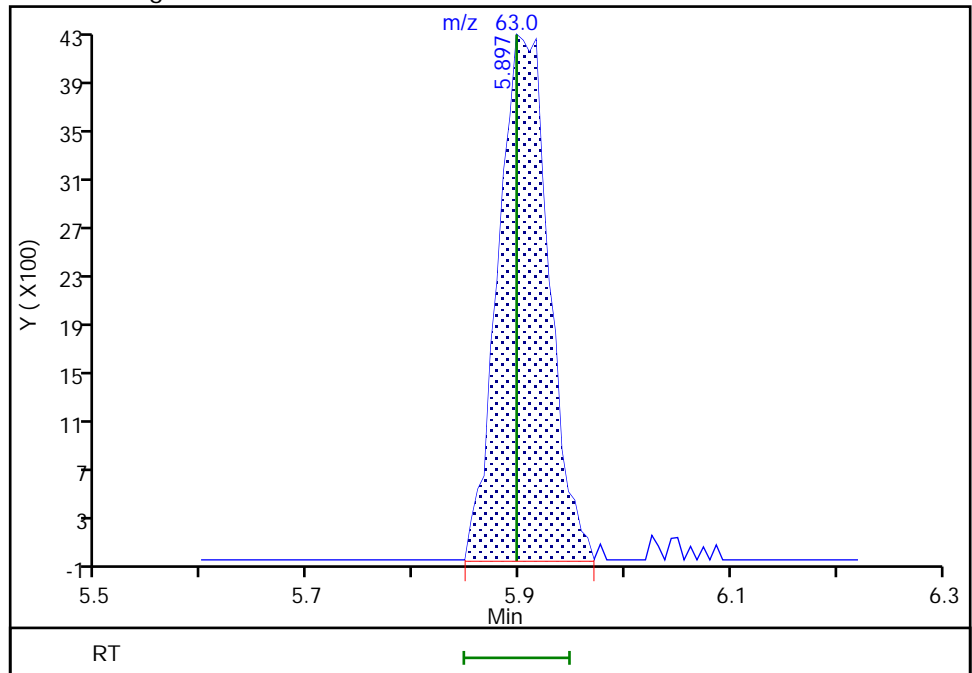
RT: 5.90  
Area: 9000  
Amount: 1.238198  
Amount Units: ug/L

Processing Integration Results



RT: 5.90  
Area: 14053  
Amount: 1.852872  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:04:10  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

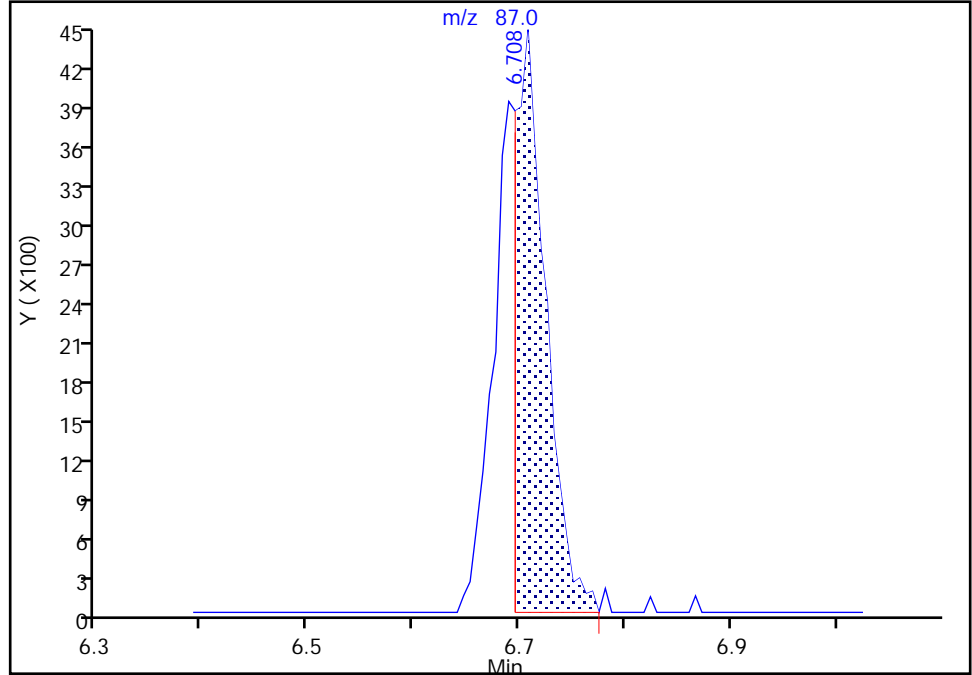
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_005.D  
Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

41 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

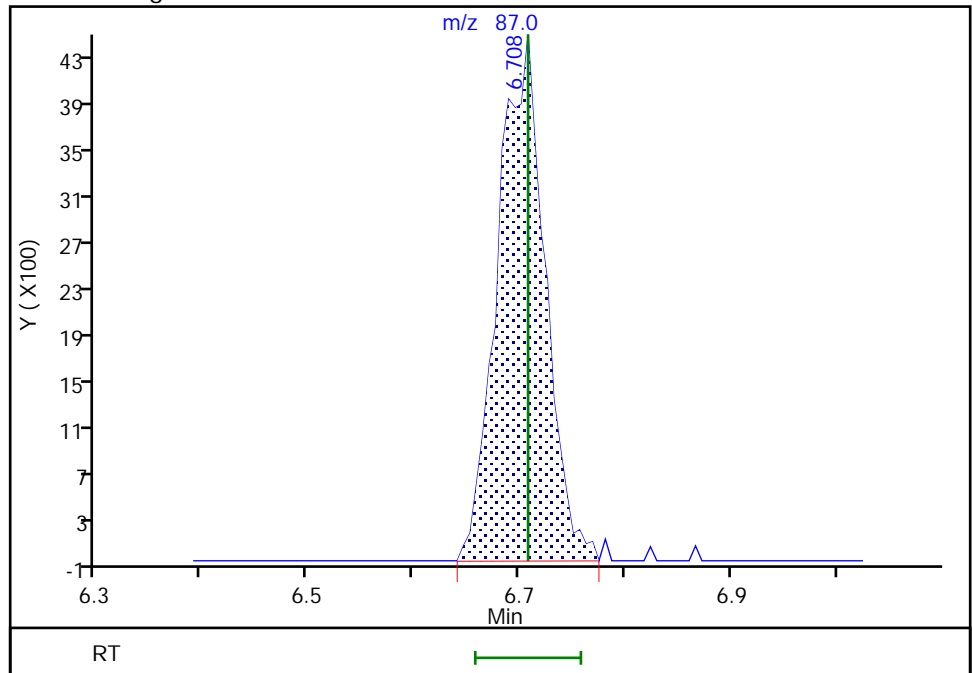
RT: 6.71  
Area: 9032  
Amount: 1.573125  
Amount Units: ug/L

Processing Integration Results



RT: 6.71  
Area: 13888  
Amount: 2.320764  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:04:38  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

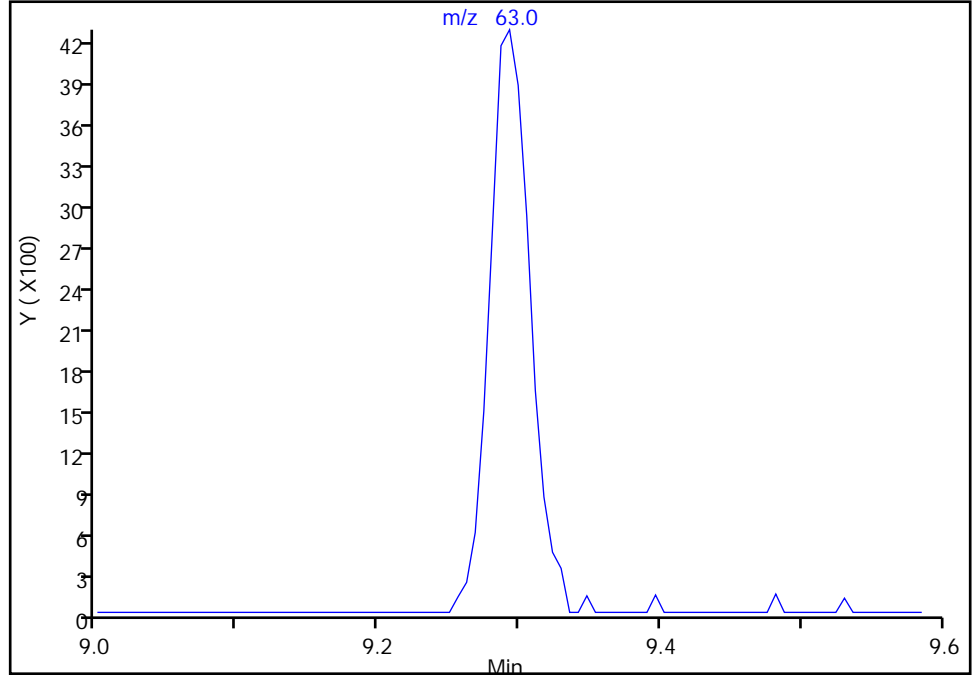
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_005.D  
Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

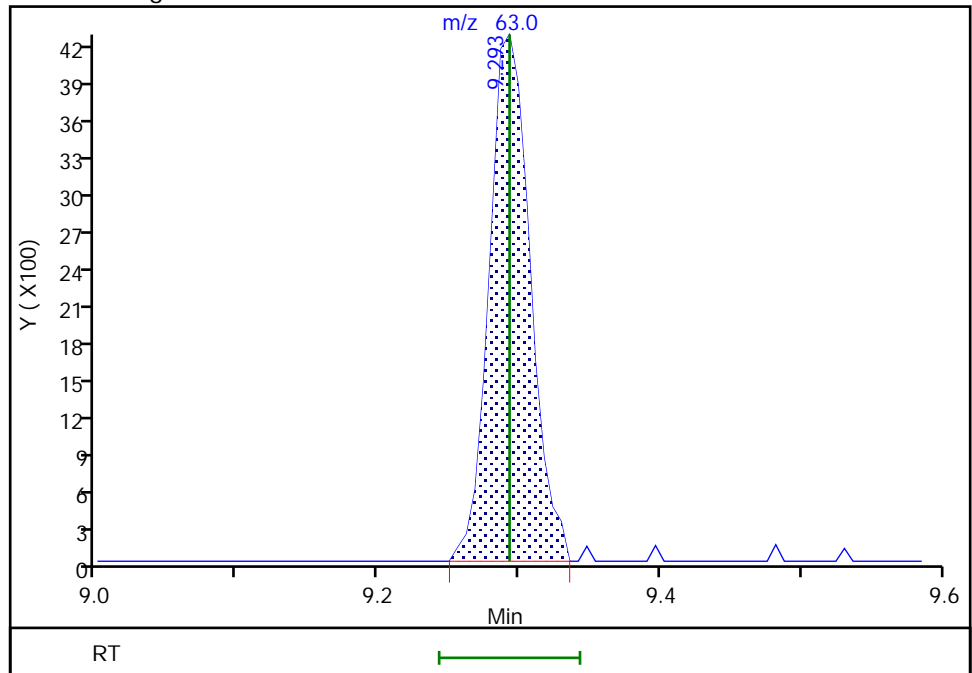
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 8546  
Amount: 1.935005  
Amount Units: ug/L



Eurofins TestAmerica, Seattle

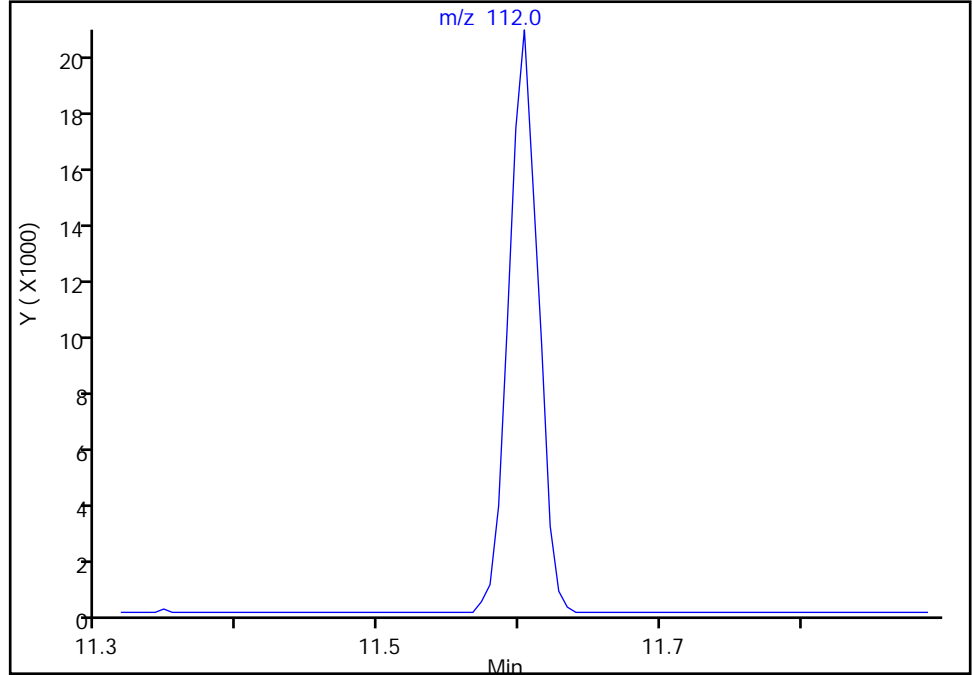
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_005.D  
Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

82 Chlorobenzene, CAS: 108-90-7

Signal: 1

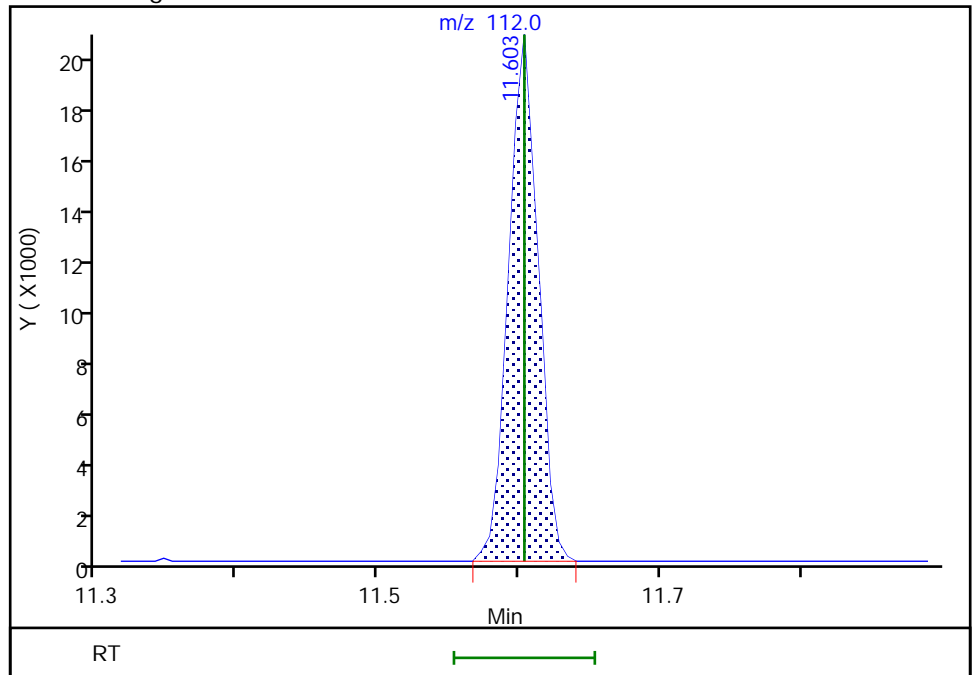
Not Detected  
Expected RT: 11.60

Processing Integration Results



Manual Integration Results

RT: 11.60  
Area: 30044  
Amount: 1.870293  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 15:09:49  
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

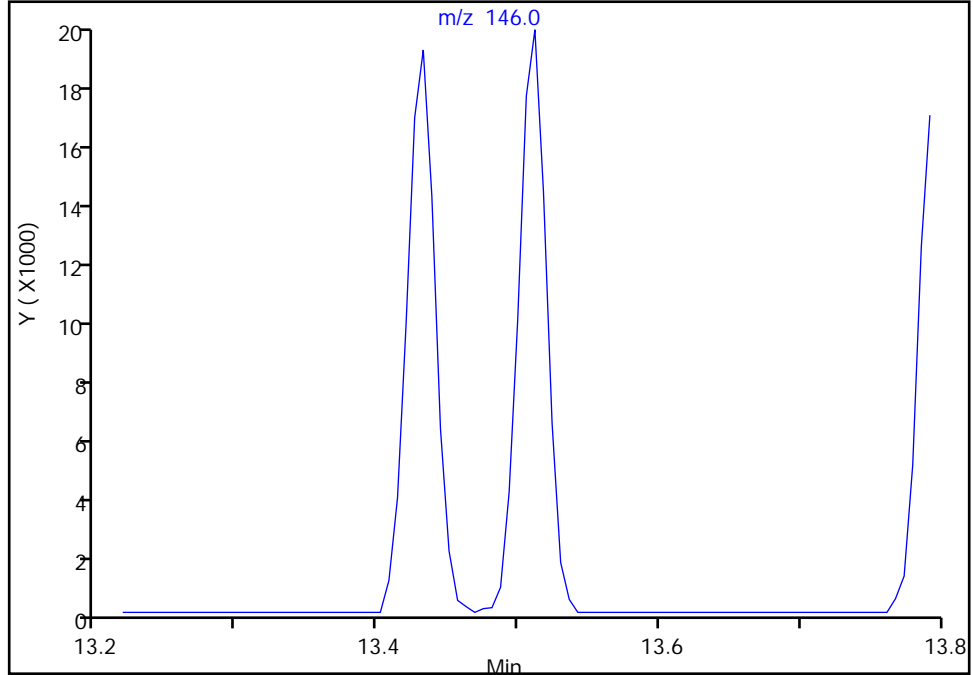
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_005.D  
Injection Date: 14-Jul-2020 16:35:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

104 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

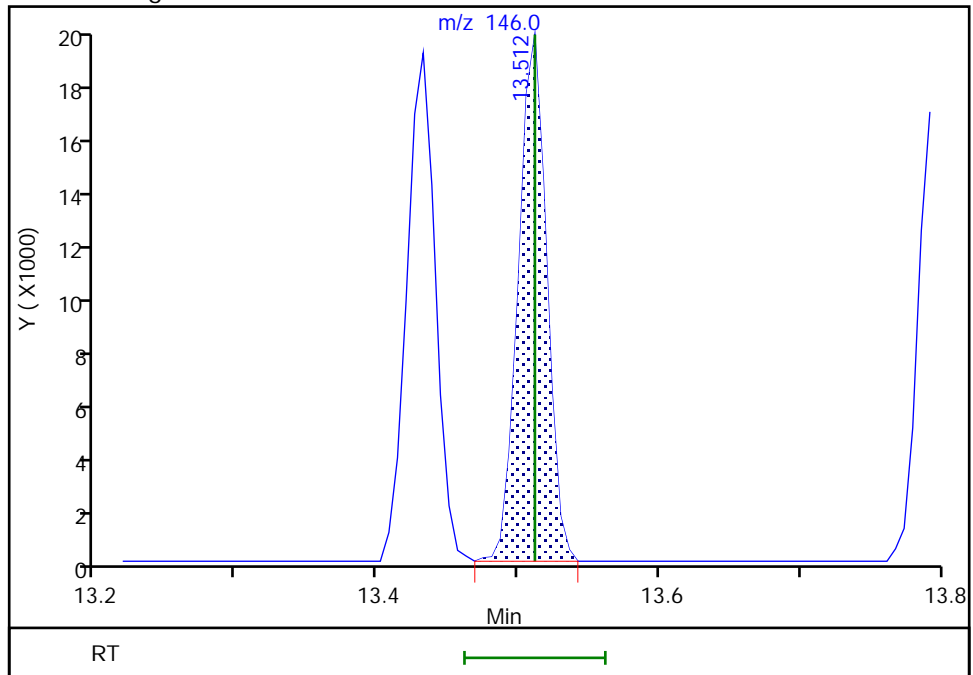
Not Detected  
Expected RT: 13.51

Processing Integration Results



Manual Integration Results

RT: 13.51  
Area: 26632  
Amount: 1.892348  
Amount Units: ug/L



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_006.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 14-Jul-2020 17:01:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 0.5  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Jul-2020 10:15:23 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1065

First Level Reviewer: limwirojt

Date: 15-Jul-2020 15:25:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.715	1.715	0.000	76	10704	5.00	4.70	M
4 Chloromethane	50	1.953	1.953	0.000	91	16799	5.00	4.92	
5 Vinyl chloride	62	2.068	2.068	0.000	82	16814	5.00	4.69	
6 Butadiene	54	2.117	2.117	0.000	87	12613	5.00	4.72	
7 Bromomethane	94	2.483	2.483	0.000	78	16809	5.00	5.53	M
8 Chloroethane	66	2.599	2.599	0.000	87	4359	5.00	4.63	
10 Dichlorofluoromethane	67	2.922	2.922	0.000	95	32509	5.00	5.25	
14 Trichlorofluoromethane	101	2.965	2.965	0.000	94	30919	5.00	5.06	M
11 3-Chloro-1-propene	76	2.971	2.971	0.000	44	2182	5.00	4.37	M
17 Ethyl ether	59	3.336	3.336	0.000	84	15530	5.00	5.24	
12 Acrolein	56	3.513	3.513	0.000	89	16986	30.0	30.2	
19 1,1-Dichloroethene	96	3.708	3.708	0.000	75	19588	5.00	5.34	Ma
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.745	3.745	0.000	60	21952	5.00	5.17	
16 Acetone	43	3.745	3.745	0.000	97	31475	25.0	26.9	
22 Iodomethane	142	3.903	3.903	0.000	93	40518	5.00	5.32	
26 Carbon disulfide	76	4.019	4.019	0.000	98	59110	5.00	4.98	M
S 2 Xylenes, Total	100				0			10.4	
15 Isopropyl alcohol	45	4.050	4.050	0.000	80	7655	50.0	48.1	M
13 Acetonitrile	40	4.214	4.214	0.000	96	7767	62.5	71.4	
24 Methyl acetate	43	4.312	4.312	0.000	95	28176	10.0	10.5	
23 Methylene Chloride	84	4.562	4.562	0.000	69	24127	5.00	4.80	M
* 18 TBA-d9 (IS)	65	4.653	4.653	0.000	0	73665	200.0	200.0	
20 2-Methyl-2-propanol	59	4.818	4.818	0.000	95	18760	50.0	48.4	M
21 Acrylonitrile	53	4.976	4.976	0.000	96	54540	50.0	49.8	
27 trans-1,2-Dichloroethene	96	5.062	5.062	0.000	79	25645	5.00	5.21	
28 Methyl tert-butyl ether	73	5.074	5.074	0.000	84	59819	5.00	5.09	
34 Hexane	57	5.641	5.641	0.000	84	30346	5.00	4.81	
30 1,1-Dichloroethane	63	5.897	5.897	0.000	83	37736	5.00	5.11	
31 Vinyl acetate	86	5.988	5.988	0.000	97	9483	12.5	11.5	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	73	32533	5.00	5.08	
35 Isopropyl ether	45	6.055	6.055	0.000	57	73758	6.25	6.45	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.702	6.702	0.000	95	37352	6.25	6.41	
43 2,2-Dichloropropane	77	6.903	6.903	0.000	83	28484	5.00	5.23	a
37 cis-1,2-Dichloroethene	96	6.921	6.921	0.000	63	28560	5.00	5.17	
33 2-Butanone (MEK)	72	6.927	6.927	0.000	96	12538	25.0	23.8	
29 Propionitrile	54	7.007	7.007	0.000	85	28640	62.5	62.5	
38 Ethyl acetate	43	7.055	7.055	0.000	95	32262	10.0	10.2	
36 Methacrylonitrile	67	7.263	7.263	0.000	87	82183	50.0	50.4	
39 Chlorobromomethane	130	7.299	7.299	0.000	57	19571	5.00	5.07	
40 Chloroform	83	7.506	7.506	0.000	94	42214	5.00	5.08	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	90	38657	5.00	5.20	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	59	47917	10.0	9.79	
51 Cyclohexane	84	7.793	7.793	0.000	85	36671	5.00	5.15	
52 Carbon tetrachloride	117	7.927	7.927	0.000	83	37466	5.00	5.26	
50 1,1-Dichloropropene	75	7.939	7.939	0.000	91	33905	5.00	5.15	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	44264	10.0	9.82	
53 Benzene	78	8.195	8.195	0.000	96	101062	5.00	5.10	
42 Isobutyl alcohol	43	8.207	8.207	0.000	46	14800	125.0	120.8	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	85	29905	5.00	5.36	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	95	77675	6.25	6.60	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	99	198018	10.0	10.0	
45 Tetrahydrofuran	42	8.622	8.622	0.000	27	8465	10.0	10.6	
56 n-Heptane	43	8.628	8.628	0.000	77	30252	5.00	4.97	
61 Trichloroethene	132	9.024	9.024	0.000	87	32453	5.00	5.00	
57 Ethyl acrylate	55	9.152	9.152	0.000	96	20430	5.00	4.76	
49 n-Butanol	56	9.262	9.262	0.000	32	9674	125.0	126.8	
66 Methylcyclohexane	83	9.268	9.268	0.000	84	45635	5.00	5.02	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	92	21982	5.00	5.11	a
59 Dibromomethane	174	9.390	9.390	0.000	69	21004	5.00	4.97	
63 Methyl methacrylate	69	9.396	9.396	0.000	82	27814	10.0	10.0	
62 Dichlorobromomethane	83	9.591	9.591	0.000	89	30854	5.00	4.97	
58 2-Nitropropane	43	9.805	9.805	0.000	98	9523	10.0	8.66	
65 2-Chloroethyl vinyl ether	63	9.884	9.884	0.000	89	8428	5.00	4.77	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	90	34519	5.00	5.06	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	93	35514	25.0	24.2	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	92	198256	10.0	10.2	
74 Toluene	91	10.335	10.335	0.000	94	117843	5.00	5.20	
70 n-Butyl acetate	43	10.475	10.475	0.000	65	2636	5.00	5.32	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	91	31722	5.00	5.19	
73 Ethyl methacrylate	69	10.622	10.622	0.000	84	21445	5.00	4.89	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	89	20933	5.00	5.03	
79 Tetrachloroethene	164	10.817	10.817	0.000	86	31141	5.00	5.25	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	88	32657	5.00	5.14	
76 2-Hexanone	58	10.933	10.933	0.000	95	33041	25.0	22.9	
77 Chlorodibromomethane	129	11.073	11.073	0.000	83	27195	5.00	5.33	
78 Ethylene Dibromide	107	11.170	11.170	0.000	97	21205	5.00	5.16	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	83	163668	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	96	79094	5.00	5.17	
80 1,1,1,2-Tetrachloroethane	131	11.682	11.682	0.000	45	28568	5.00	5.21	
83 Ethylbenzene	91	11.682	11.682	0.000	97	125427	5.00	5.14	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	94447	5.00	5.20	
88 o-Xylene	91	12.115	12.115	0.000	95	93341	5.00	5.22	
86 Styrene	104	12.127	12.127	0.000	95	75985	5.00	5.11	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	97	18809	5.00	4.89	
91 Isopropylbenzene	105	12.414	12.414	0.000	94	126135	5.00	5.25	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	96	77833	10.0	9.95	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	90	23818	5.00	5.01	
93 Bromobenzene	156	12.682	12.682	0.000	83	37693	5.00	5.12	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	51	6265	5.00	4.92	
90 1,2,3-Trichloropropane	110	12.713	12.713	0.000	19	9310	5.00	5.38	
94 N-Propylbenzene	91	12.749	12.749	0.000	87	146180	5.00	5.30	
95 2-Chlorotoluene	126	12.829	12.829	0.000	97	33760	5.00	5.24	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	93	103208	5.00	5.26	
96 4-Chlorotoluene	126	12.926	12.926	0.000	79	33392	5.00	5.10	
98 tert-Butylbenzene	119	13.152	13.152	0.000	87	96294	5.00	5.24	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	67	103157	5.00	4.64	
100 sec-Butylbenzene	105	13.322	13.322	0.000	93	143401	5.00	5.39	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	97	70449	5.00	5.13	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	96	123781	5.00	5.22	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	83	93360	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	96	72021	5.00	5.21	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	72	103572	5.00	5.24	
101 Benzyl chloride	126	13.591	13.591	0.000	97	10303	5.00	4.79	
108 n-Butylbenzene	134	13.761	13.761	0.000	96	31990	5.00	5.03	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	93	65449	5.00	5.14	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.401	0.000	76	5693	5.00	4.66	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	97	56517	5.00	5.02	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	89	44533	5.00	4.84	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	89	33031	5.00	5.01	
112 Naphthalene	128	15.249	15.249	0.000	96	66115	5.00	4.34	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	90	37724	5.00	4.61	

### QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 0.50

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_006.D

Injection Date: 14-Jul-2020 17:01:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 6

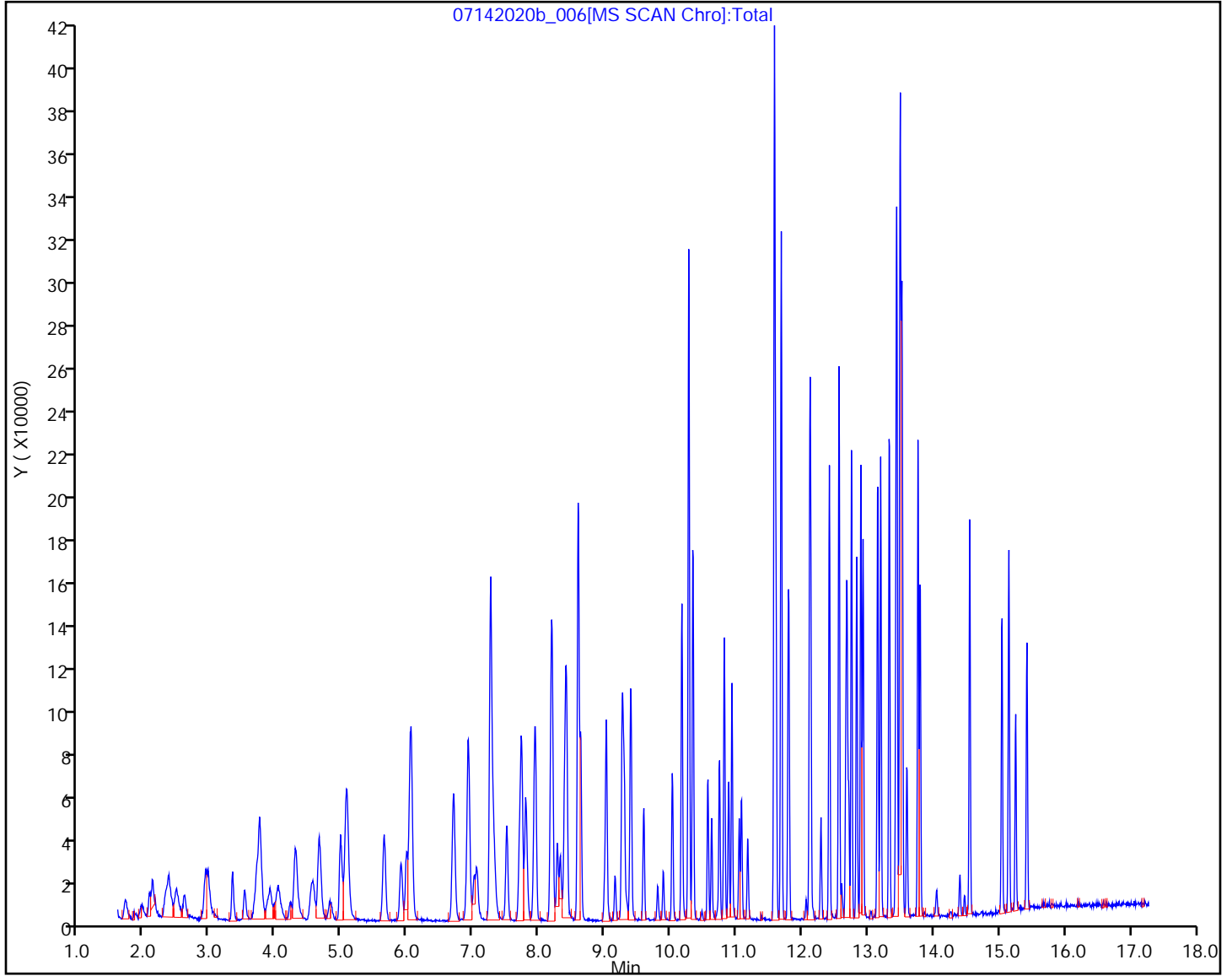
Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

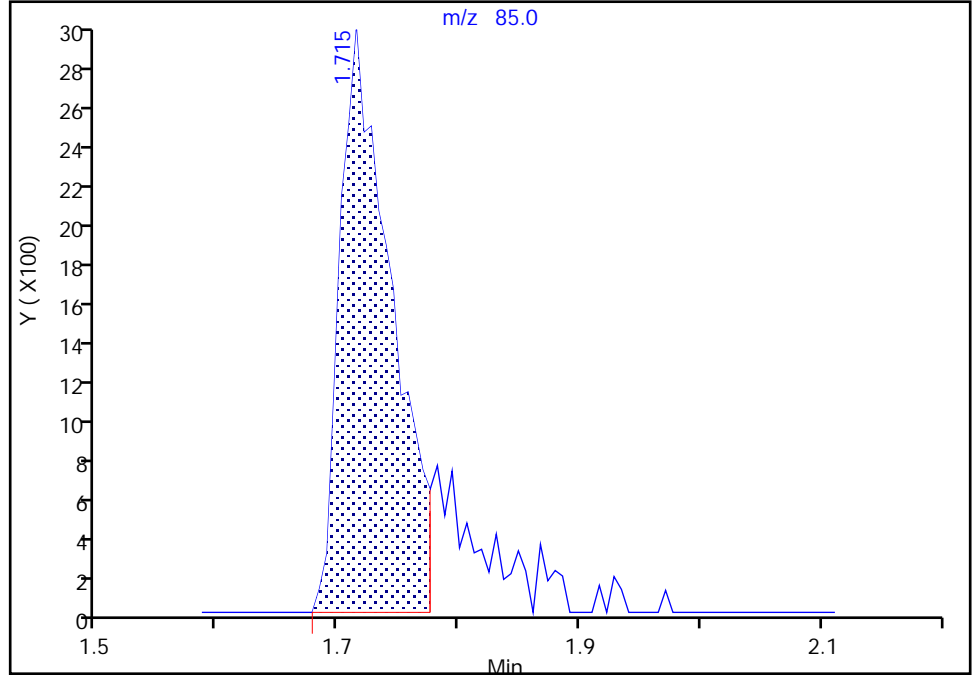
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Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

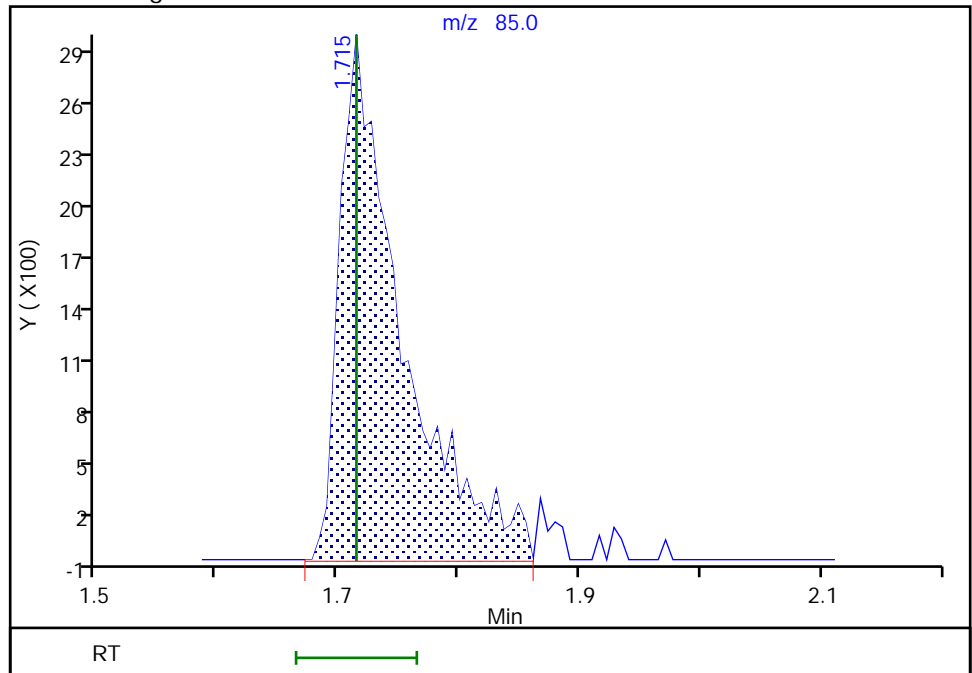
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Area: 8821  
Amount: 3.932627  
Amount Units: ug/L

Processing Integration Results



RT: 1.71  
Area: 10704  
Amount: 4.699851  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 08:57:20  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

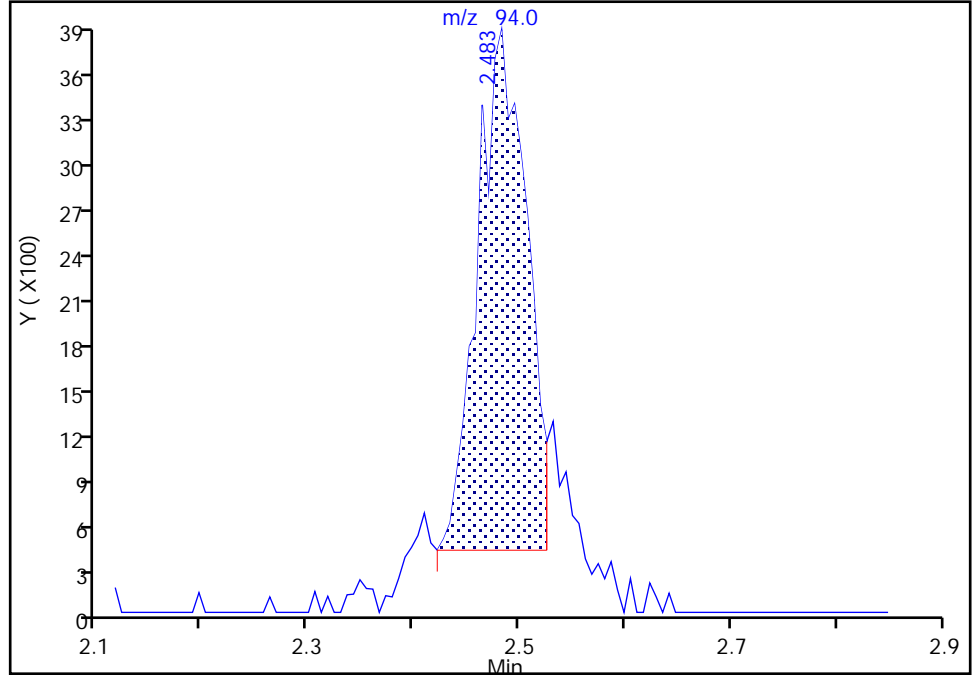
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

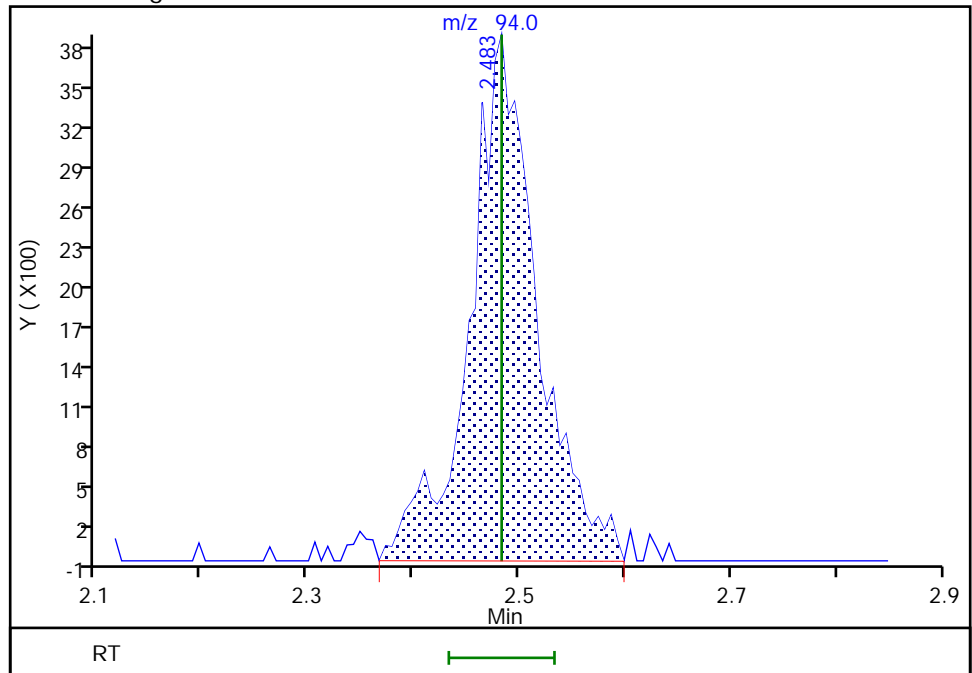
RT: 2.48  
Area: 10961  
Amount: 3.864573  
Amount Units: ug/L

Processing Integration Results



RT: 2.48  
Area: 16809  
Amount: 5.528645  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:14:16  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

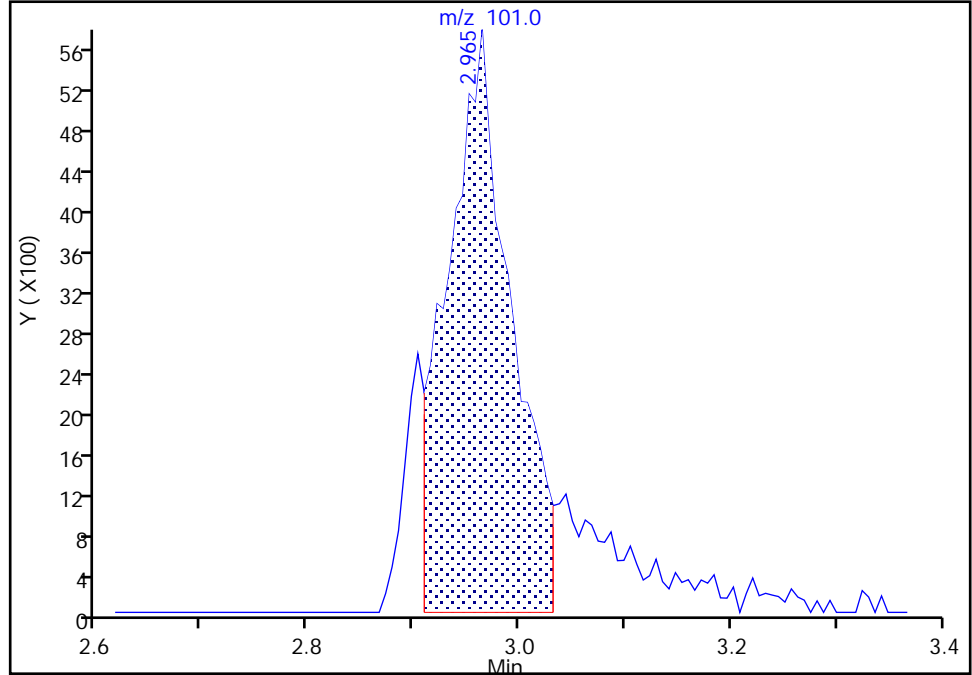
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Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

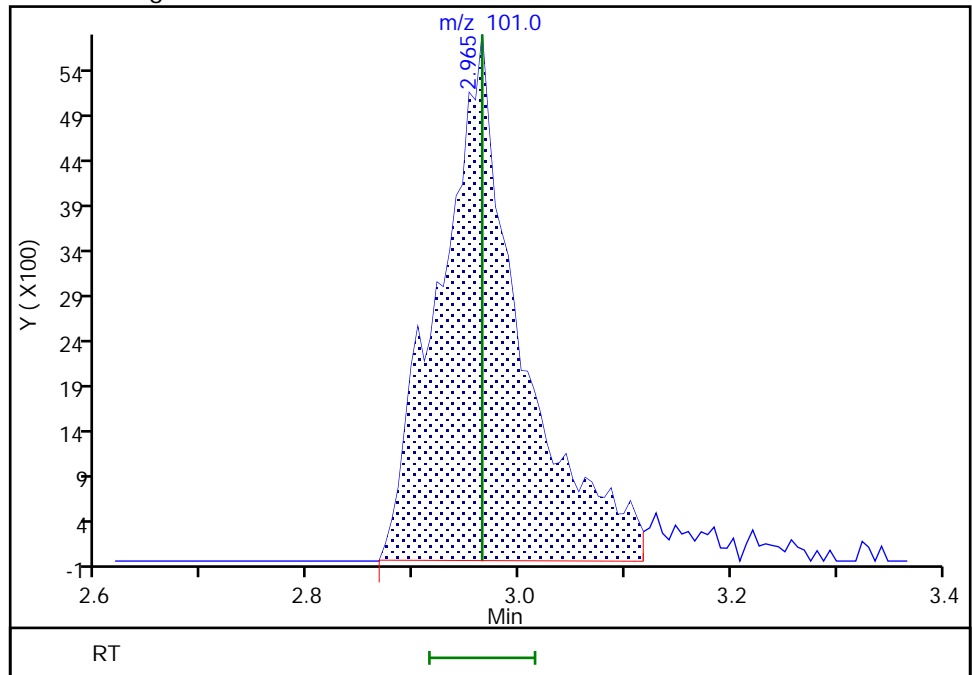
RT: 2.96  
Area: 24397  
Amount: 4.526653  
Amount Units: ug/L

Processing Integration Results



RT: 2.96  
Area: 30919  
Amount: 5.060157  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:14:29  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

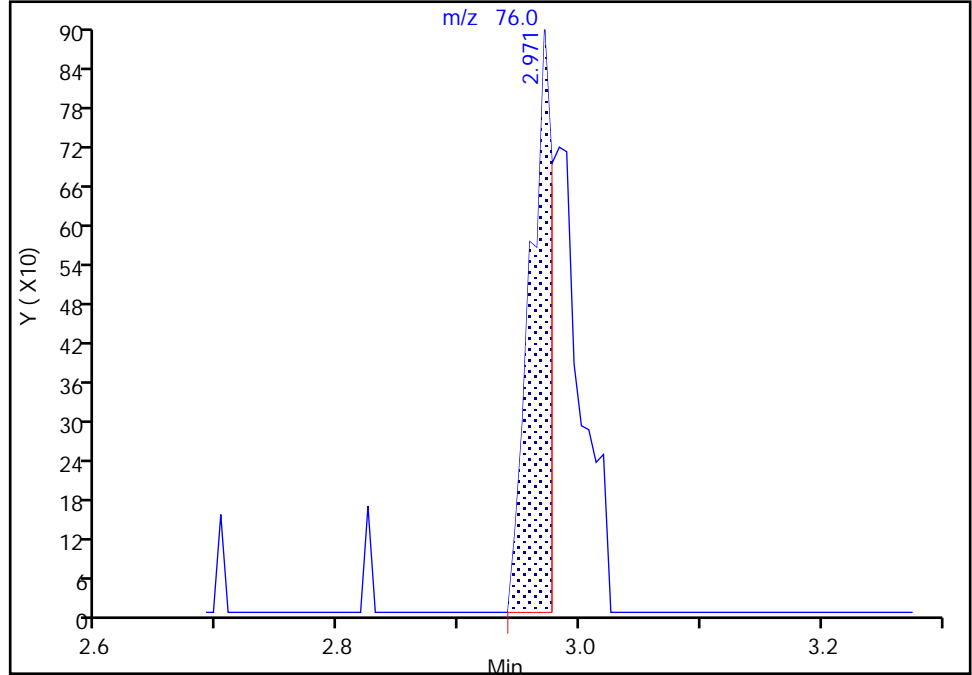
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

11 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

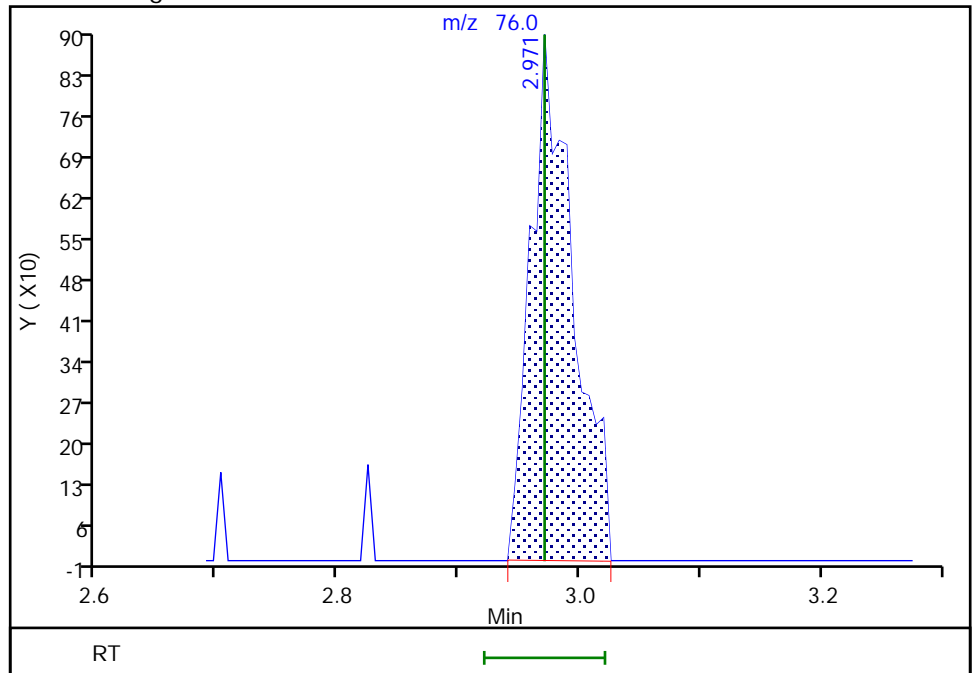
RT: 2.97  
Area: 1144  
Amount: 2.746482  
Amount Units: ug/L

Processing Integration Results



RT: 2.97  
Area: 2182  
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Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:14:38  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

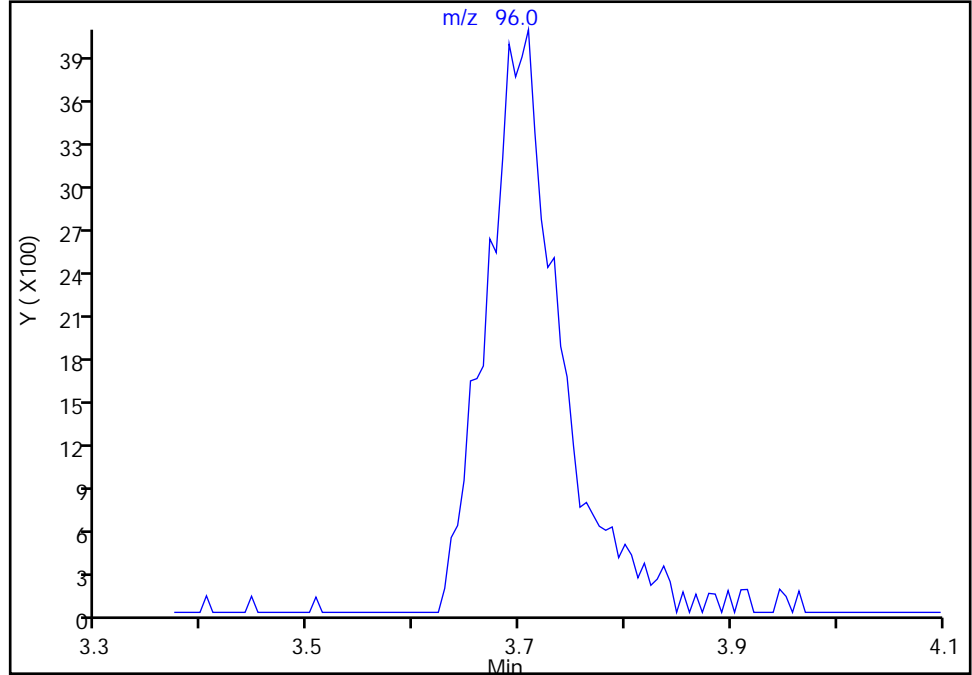
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Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

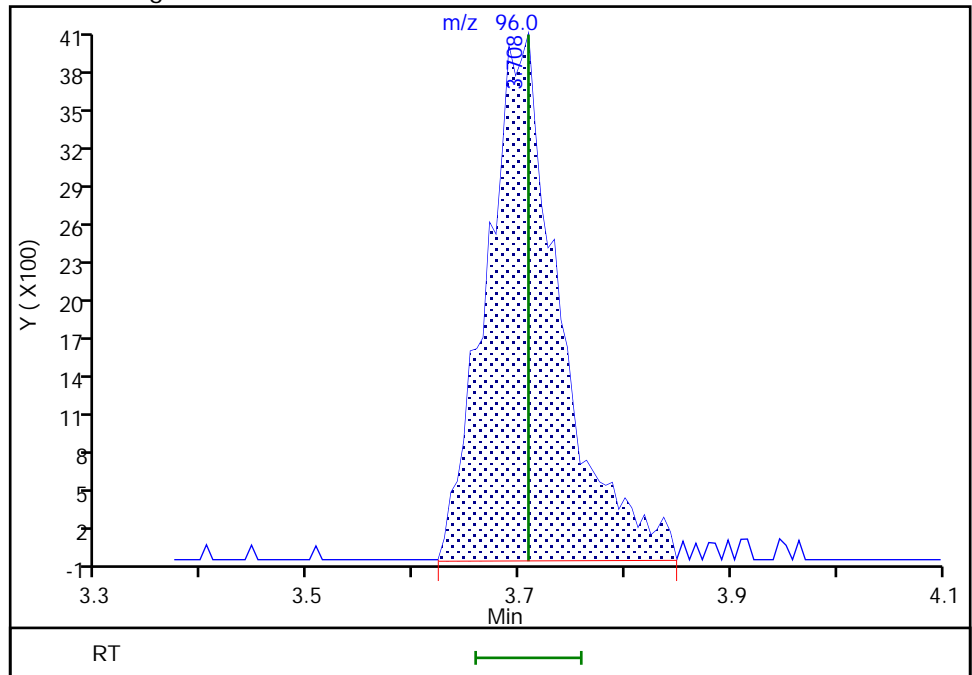
Not Detected  
Expected RT: 3.71

Processing Integration Results



Manual Integration Results

RT: 3.71  
Area: 19588  
Amount: 5.339454  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 15:20:45  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

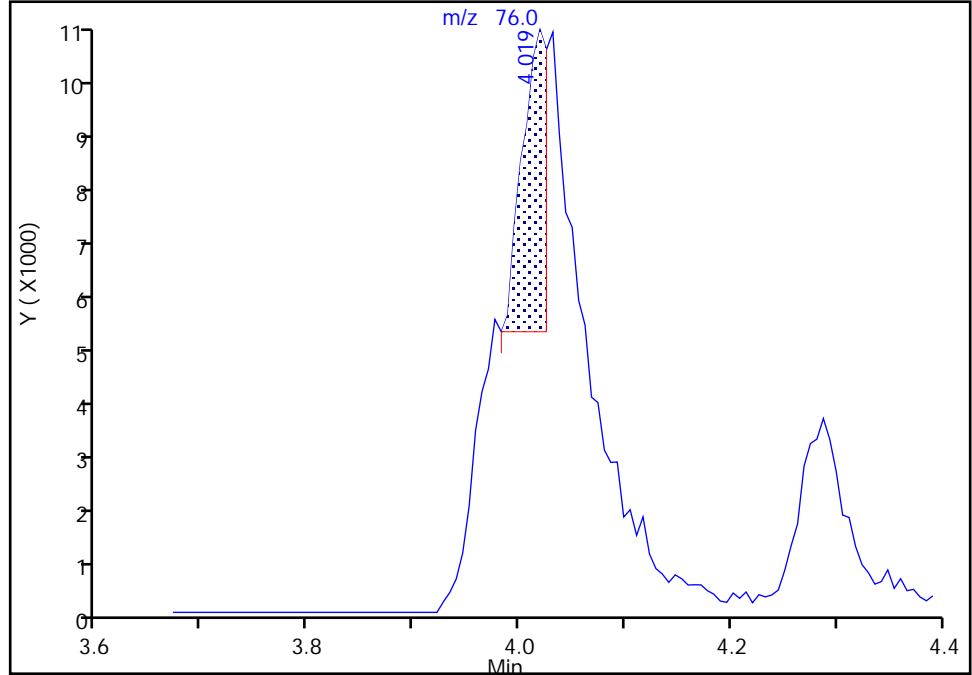
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Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

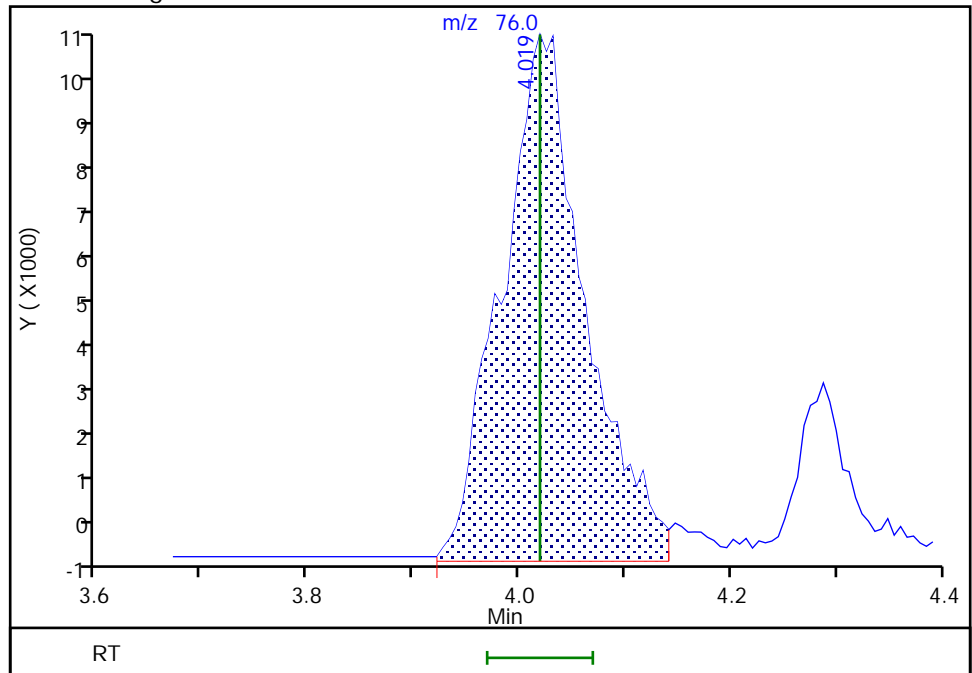
RT: 4.02  
Area: 9096  
Amount: 0.857292  
Amount Units: ug/L

Processing Integration Results



RT: 4.02  
Area: 59110  
Amount: 4.983767  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:21:58  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 286 of 425

Eurofins TestAmerica, Seattle

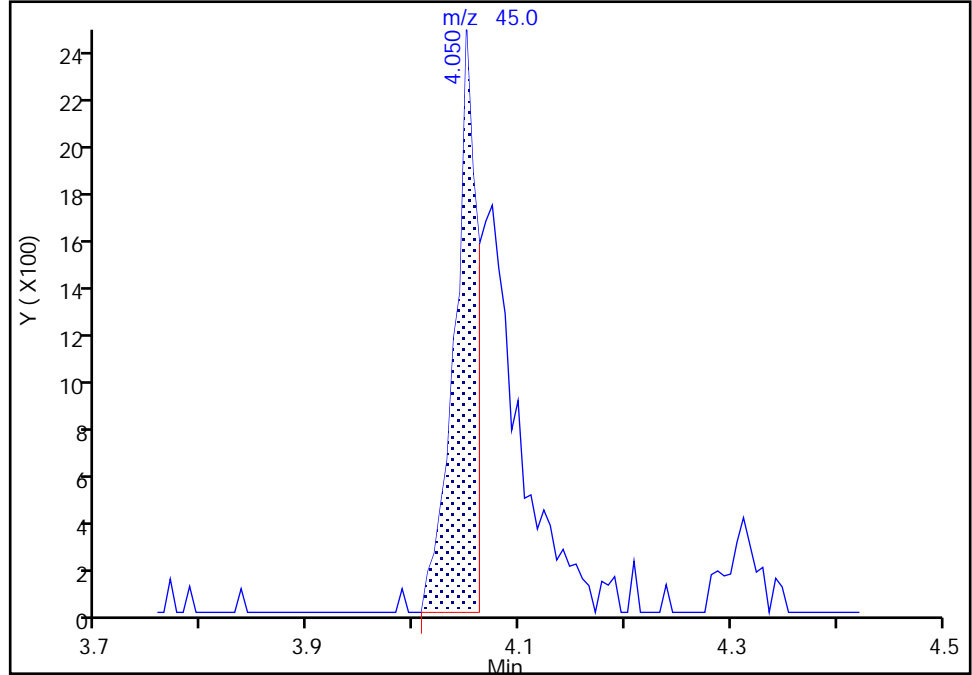
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Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

15 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

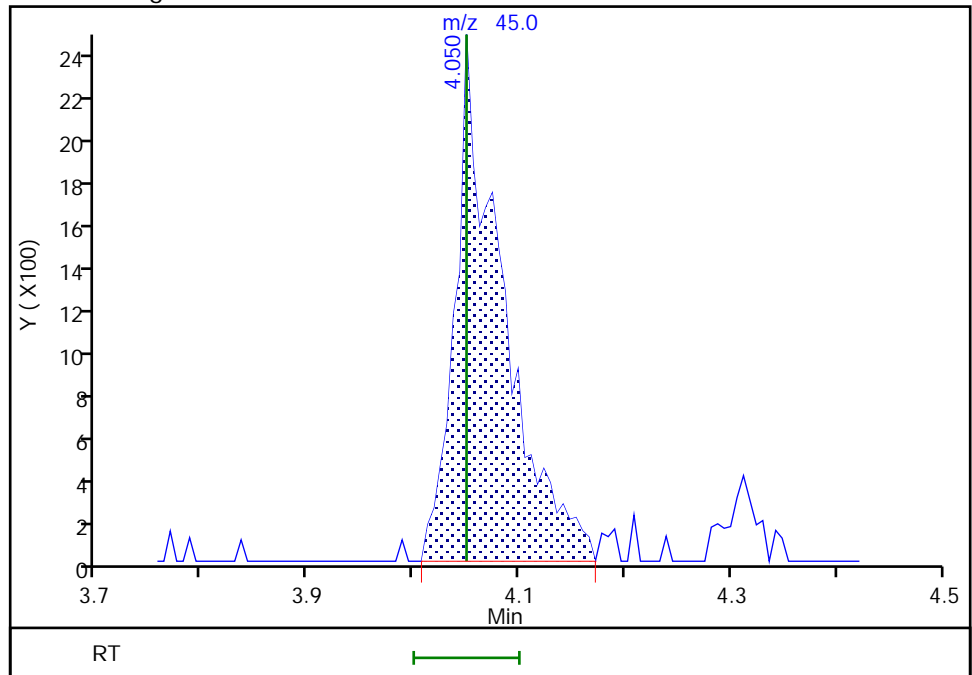
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Area: 3624  
Amount: 27.522002  
Amount Units: ug/L

Processing Integration Results



RT: 4.05  
Area: 7655  
Amount: 48.081602  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:22:09  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

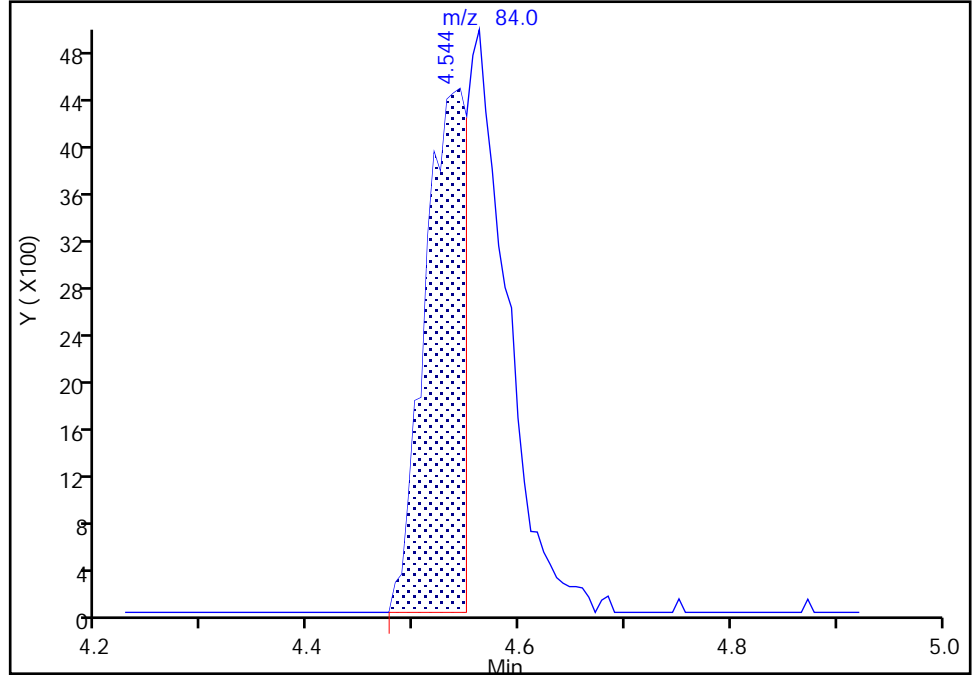
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Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

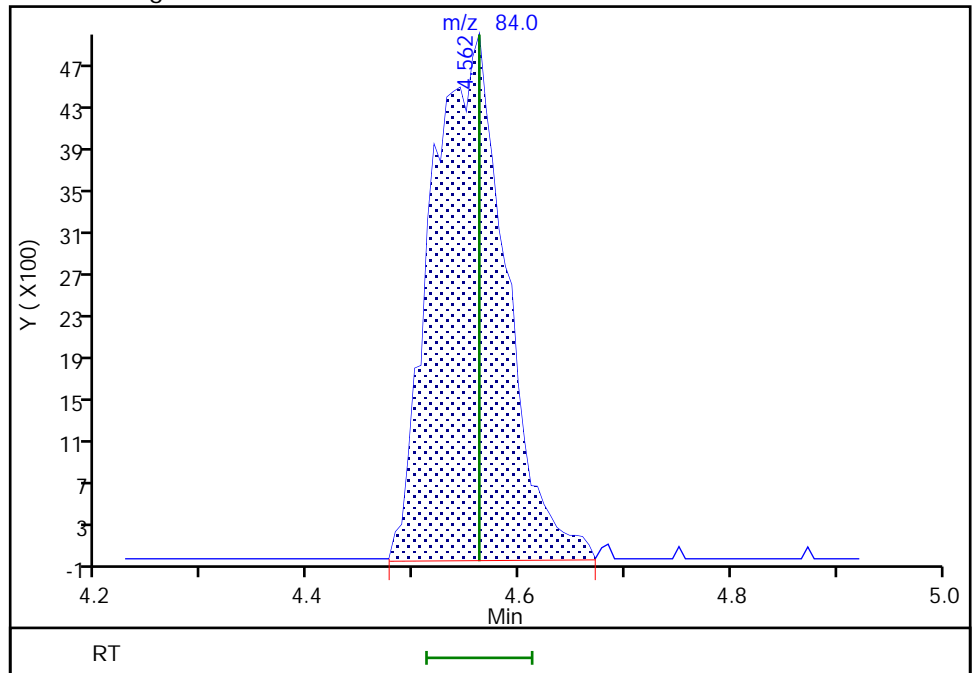
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Amount: 2.926949  
Amount Units: ug/L

Processing Integration Results



RT: 4.56  
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Amount: 4.798419  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:23:33  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 288 of 425

Eurofins TestAmerica, Seattle

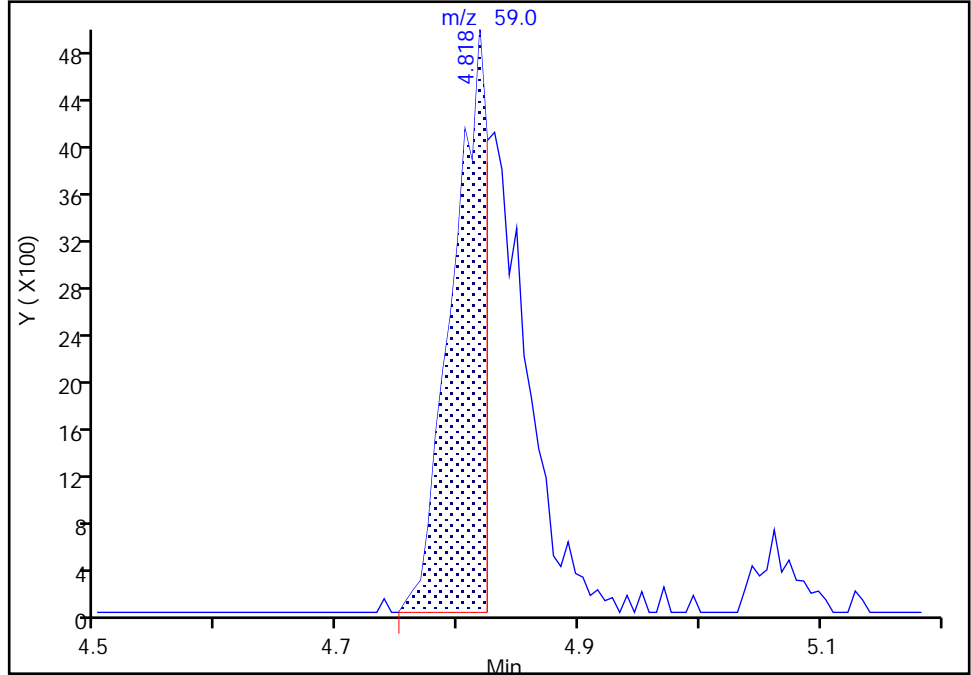
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Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

20 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

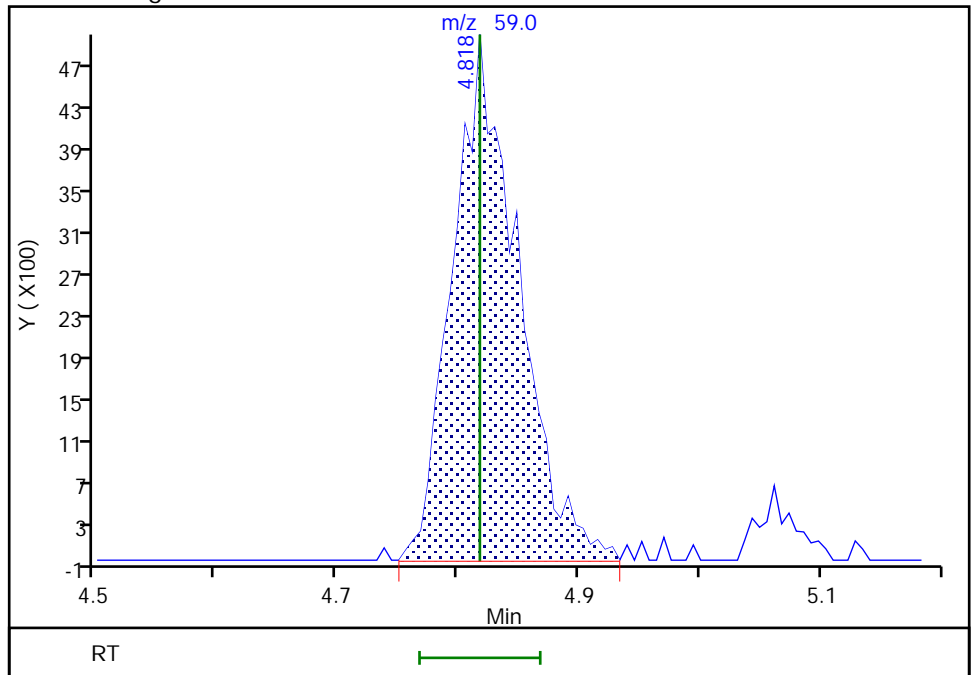
RT: 4.82  
Area: 10110  
Amount: 30.809800  
Amount Units: ug/L

Processing Integration Results



RT: 4.82  
Area: 18760  
Amount: 48.355087  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:23:43  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

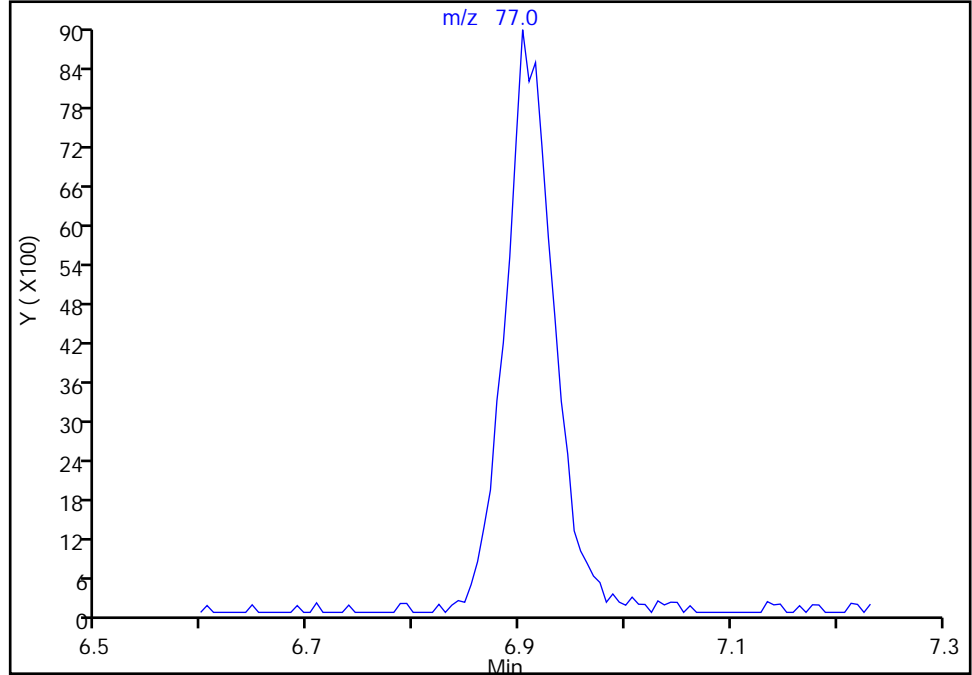
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Injection Date: 14-Jul-2020 17:01:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

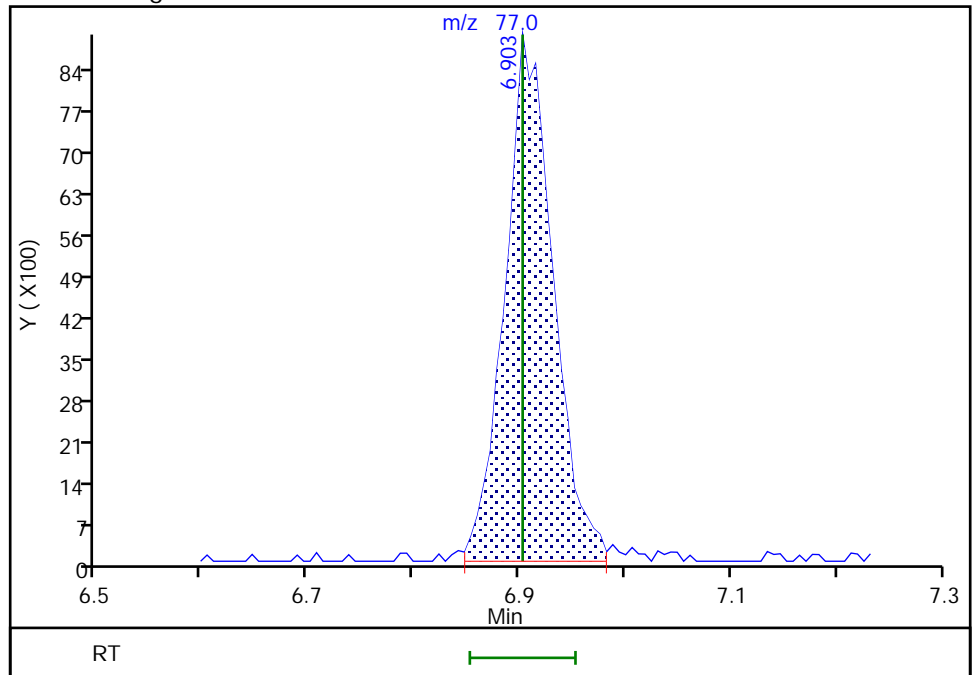
Not Detected  
Expected RT: 6.90

Processing Integration Results



Manual Integration Results

RT: 6.90  
Area: 28484  
Amount: 5.227306  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 15:24:07  
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

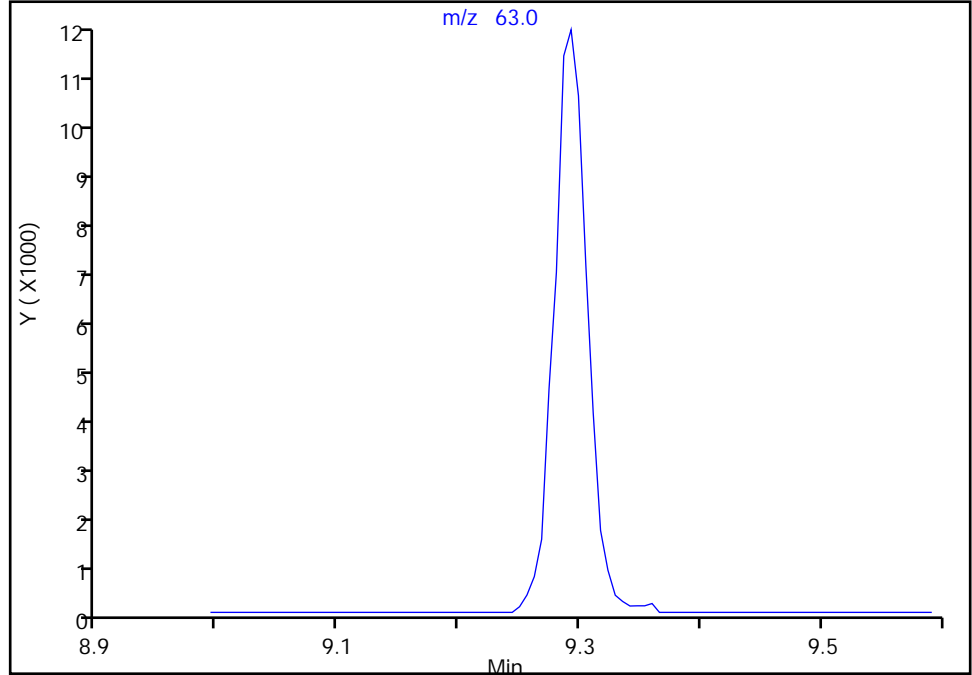
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Injection Date: 14-Jul-2020 17:01:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

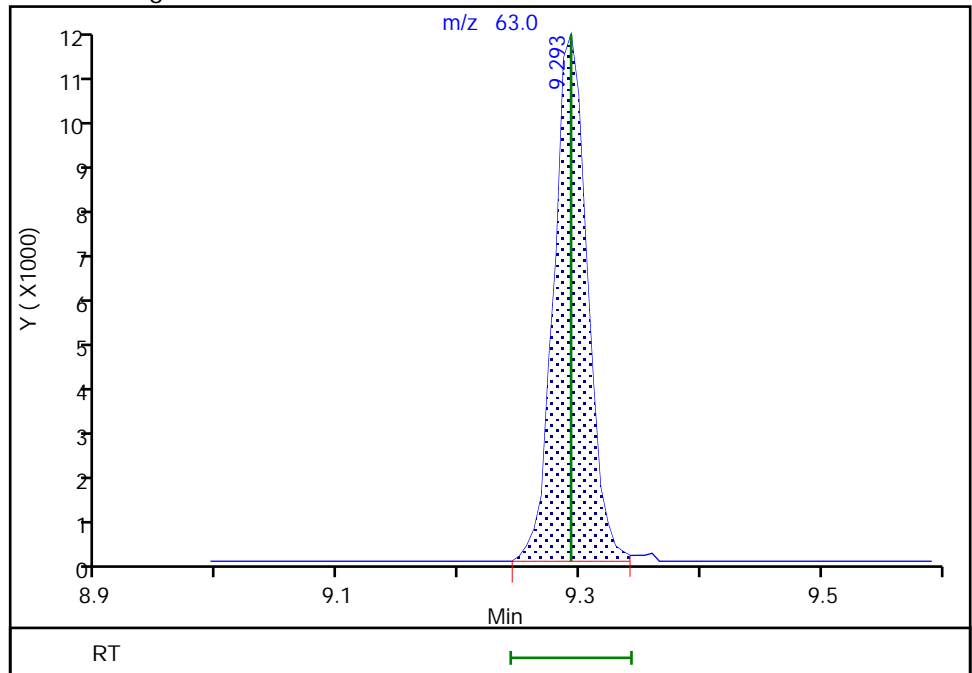
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 21982  
Amount: 5.108144  
Amount Units: ug/L



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_007.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 14-Jul-2020 17:27:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 1  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Jul-2020 10:15:34 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1065

First Level Reviewer: limwirojt

Date: 15-Jul-2020 15:28:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.715	1.715	0.000	91	19480	10.0	8.16	M
4 Chloromethane	50	1.953	1.953	0.000	91	32029	10.0	8.95	a
5 Vinyl chloride	62	2.062	2.062	0.000	94	35123	10.0	9.35	
6 Butadiene	54	2.123	2.123	0.000	82	25781	10.0	9.21	
7 Bromomethane	94	2.465	2.465	0.000	90	24078	10.0	7.56	M
8 Chloroethane	66	2.587	2.587	0.000	87	9411	10.0	9.30	M
10 Dichlorofluoromethane	67	2.922	2.922	0.000	81	64520	10.0	9.94	
14 Trichlorofluoromethane	101	2.953	2.953	0.000	83	65273	10.0	10.2	M
11 3-Chloro-1-propene	76	2.977	2.977	0.000	67	5571	10.0	9.88	
17 Ethyl ether	59	3.337	3.337	0.000	88	32604	10.0	10.5	
12 Acrolein	56	3.526	3.526	0.000	95	34153	60.0	56.7	
19 1,1-Dichloroethene	96	3.702	3.702	0.000	85	35448	10.0	9.22	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.751	3.751	0.000	57	44062	10.0	9.89	
16 Acetone	43	3.751	3.751	0.000	97	57200	50.0	46.7	
22 Iodomethane	142	3.898	3.898	0.000	94	81288	10.0	10.2	
26 Carbon disulfide	76	4.013	4.013	0.000	98	117241	10.0	9.43	
S 2 Xylenes, Total	100				0			21.4	
15 Isopropyl alcohol	45	4.068	4.068	0.000	86	18191	100.0	107.9	M
13 Acetonitrile	40	4.215	4.215	0.000	98	14171	125.0	116.8	M
24 Methyl acetate	43	4.312	4.312	0.000	95	60454	20.0	21.5	
23 Methylene Chloride	84	4.550	4.550	0.000	74	48325	10.0	9.54	M
* 18 TBA-d9 (IS)	65	4.672	4.672	0.000	0	78022	200.0	200.0	
20 2-Methyl-2-propanol	59	4.842	4.842	0.000	92	40343	100.0	99.2	
21 Acrylonitrile	53	4.983	4.983	0.000	100	118599	100.0	103.4	
27 trans-1,2-Dichloroethene	96	5.062	5.062	0.000	75	51691	10.0	10.0	
28 Methyl tert-butyl ether	73	5.080	5.080	0.000	84	130829	10.0	10.6	
34 Hexane	57	5.635	5.635	0.000	90	64152	10.0	9.70	
30 1,1-Dichloroethane	63	5.897	5.897	0.000	96	81945	10.0	10.6	
31 Vinyl acetate	86	5.982	5.982	0.000	96	21435	25.0	21.6	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	77	70606	10.0	10.5	
35 Isopropyl ether	45	6.056	6.056	0.000	55	161714	12.5	13.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	95	79103	12.5	12.9	
43 2,2-Dichloropropane	77	6.909	6.909	0.000	75	54333	10.0	9.51	a
37 cis-1,2-Dichloroethene	96	6.921	6.921	0.000	78	58580	10.0	10.1	
33 2-Butanone (MEK)	72	6.927	6.940	-0.013	98	27281	50.0	49.4	
29 Propionitrile	54	7.013	7.013	0.000	87	61664	125.0	128.4	
38 Ethyl acetate	43	7.055	7.055	0.000	96	66769	20.0	20.1	
36 Methacrylonitrile	67	7.263	7.263	0.000	89	178044	100.0	104.2	
39 Chlorobromomethane	130	7.305	7.305	0.000	71	41649	10.0	10.3	
40 Chloroform	83	7.507	7.507	0.000	80	90458	10.0	10.4	
48 1,1,1-Trichloroethane	97	7.702	7.702	0.000	89	78809	10.0	10.1	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	70	50772	10.0	9.90	
51 Cyclohexane	84	7.799	7.799	0.000	83	76132	10.0	10.2	
52 Carbon tetrachloride	117	7.927	7.927	0.000	83	75836	10.0	10.2	
50 1,1-Dichloropropene	75	7.945	7.945	0.000	94	70033	10.0	10.2	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.183	8.183	0.000	0	45636	10.0	9.66	
53 Benzene	78	8.195	8.195	0.000	95	211412	10.0	10.2	
42 Isobutyl alcohol	43	8.208	8.208	0.000	47	34522	250.0	266.1	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	90	58173	10.0	9.95	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	92	164278	12.5	13.3	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	99	207526	10.0	10.0	
45 Tetrahydrofuran	42	8.628	8.628	0.000	27	16515	20.0	19.8	
56 n-Heptane	43	8.628	8.628	0.000	86	63427	10.0	9.95	
61 Trichloroethene	132	9.025	9.025	0.000	91	67820	10.0	9.96	
57 Ethyl acrylate	55	9.153	9.153	0.000	97	46008	10.0	10.2	
49 n-Butanol	56	9.262	9.262	0.000	37	21007	250.0	262.8	
66 Methylcyclohexane	83	9.262	9.262	0.000	85	95558	10.0	10.0	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	92	44856	10.0	9.95	a
59 Dibromomethane	174	9.390	9.390	0.000	70	44627	10.0	10.1	
63 Methyl methacrylate	69	9.396	9.396	0.000	83	59621	20.0	20.5	
62 Dichlorobromomethane	83	9.592	9.592	0.000	93	66325	10.0	10.2	
58 2-Nitropropane	43	9.805	9.805	0.000	99	22185	20.0	19.2	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	91	21833	10.0	11.5	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	91	75916	10.0	10.6	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	94	77075	50.0	50.1	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	91	207217	10.0	10.1	
74 Toluene	91	10.341	10.341	0.000	98	245430	10.0	10.3	
70 n-Butyl acetate	43	10.475	10.475	0.000	82	5050	10.0	9.73	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	88	65575	10.0	10.2	
73 Ethyl methacrylate	69	10.622	10.622	0.000	81	48665	10.0	10.6	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	88	44692	10.0	10.2	
79 Tetrachloroethene	164	10.817	10.817	0.000	94	63801	10.0	10.0	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	85	69579	10.0	10.4	
76 2-Hexanone	58	10.933	10.933	0.000	77	76522	50.0	50.5	
77 Chlorodibromomethane	129	11.079	11.079	0.000	87	55768	10.0	10.4	
78 Ethylene Dibromide	107	11.170	11.170	0.000	95	43839	10.0	10.2	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	81	171577	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	96	167287	10.0	10.4	
80 1,1,1,2-Tetrachloroethane	131	11.676	11.676	0.000	49	58490	10.0	10.2	
83 Ethylbenzene	91	11.683	11.683	0.000	97	267833	10.0	10.5	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	202714	10.0	10.6	
88 o-Xylene	91	12.115	12.115	0.000	94	201249	10.0	10.7	
86 Styrene	104	12.128	12.128	0.000	94	164425	10.0	10.6	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	98	40466	10.0	10.0	
91 Isopropylbenzene	105	12.414	12.414	0.000	94	274316	10.0	10.9	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	95	82943	10.0	10.1	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	90	49750	10.0	9.77	
93 Bromobenzene	156	12.682	12.682	0.000	82	79693	10.0	10.1	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	56	13214	10.0	9.68	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	33	18881	10.0	10.2	
94 N-Propylbenzene	91	12.749	12.749	0.000	88	308640	10.0	10.4	
95 2-Chlorotoluene	126	12.829	12.829	0.000	98	71479	10.0	10.4	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	94	222498	10.0	10.6	
96 4-Chlorotoluene	126	12.926	12.926	0.000	92	72333	10.0	10.3	
98 tert-Butylbenzene	119	13.146	13.146	0.000	90	209942	10.0	10.7	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	69	228058	10.0	9.14	
100 sec-Butylbenzene	105	13.323	13.323	0.000	92	306938	10.0	10.8	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	94	149657	10.0	10.2	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	97	273619	10.0	10.8	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	64	99995	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	97	151165	10.0	10.2	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	96	228031	10.0	10.8	
101 Benzyl chloride	126	13.591	13.591	0.000	97	22999	10.0	9.97	
108 n-Butylbenzene	134	13.761	13.761	0.000	96	71912	10.0	10.6	
107 1,2-Dichlorobenzene	146	13.792	13.792	0.000	94	138641	10.0	10.2	
109 1,2-Dibromo-3-Chloropropane	157	14.402	14.402	0.000	84	12531	10.0	9.58	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	95	125459	10.0	10.4	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	91	101880	10.0	10.3	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	90	69295	10.0	9.81	
112 Naphthalene	128	15.249	15.249	0.000	96	170360	10.0	10.4	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	92	91815	10.0	10.5	

### QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 1.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_007.D

Injection Date: 14-Jul-2020 17:27:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 7

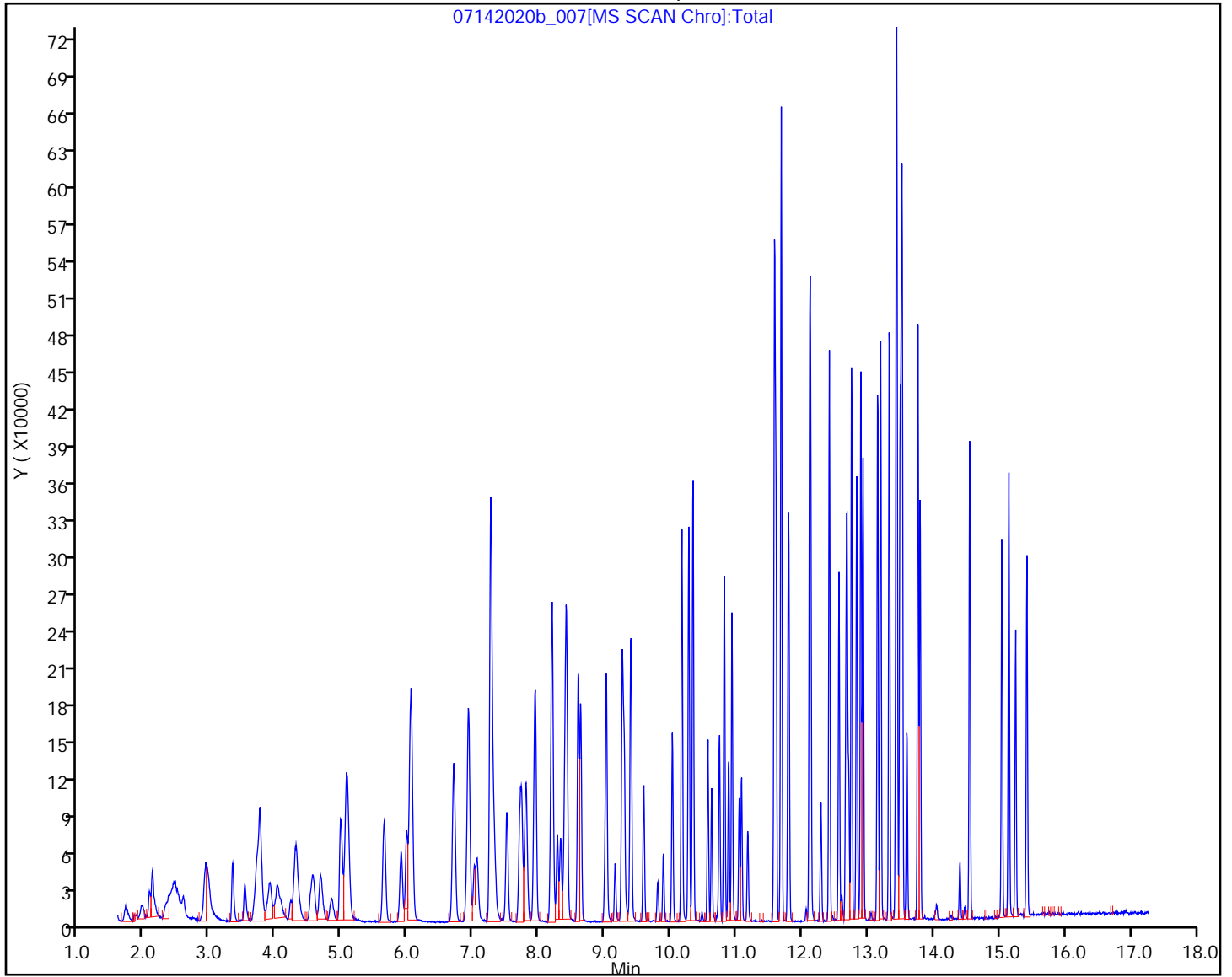
Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

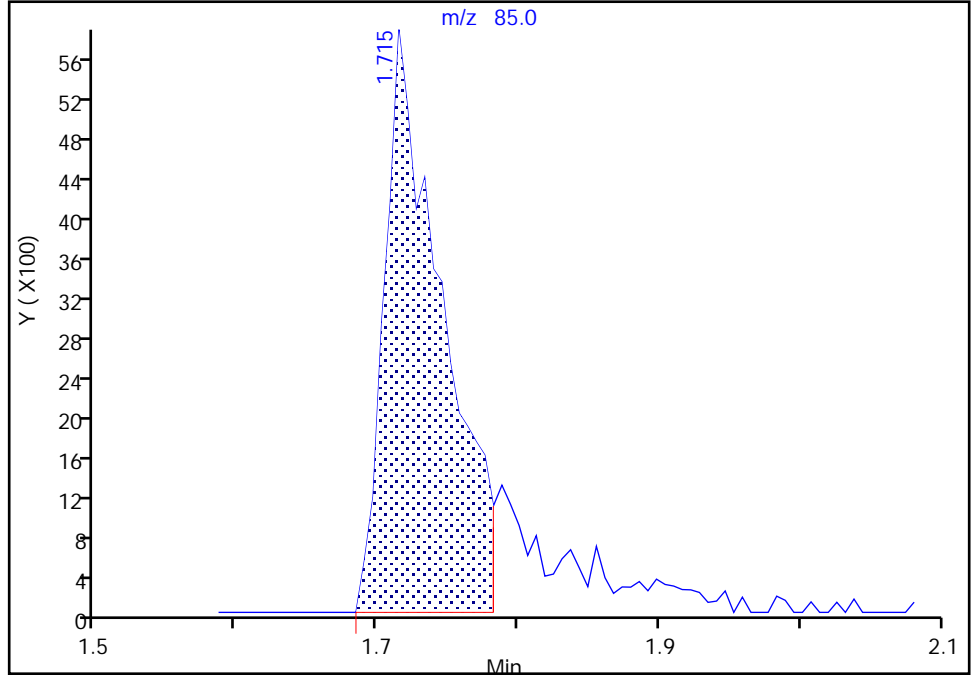
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Injection Date: 14-Jul-2020 17:27:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

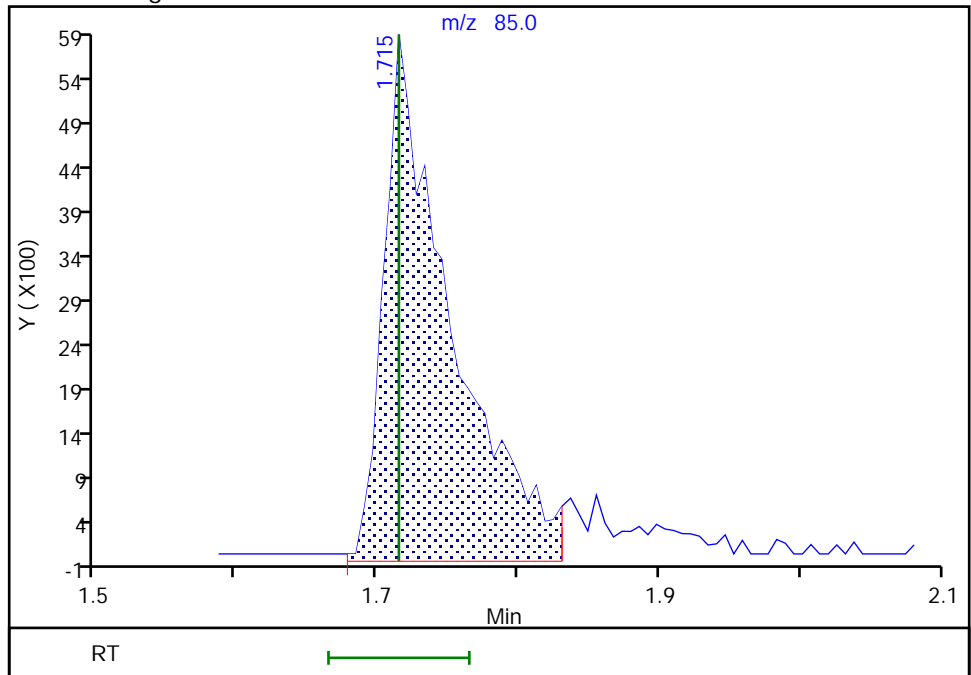
RT: 1.72  
Area: 16566  
Amount: 7.452689  
Amount Units: ug/L

Processing Integration Results



RT: 1.72  
Area: 19480  
Amount: 8.161295  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

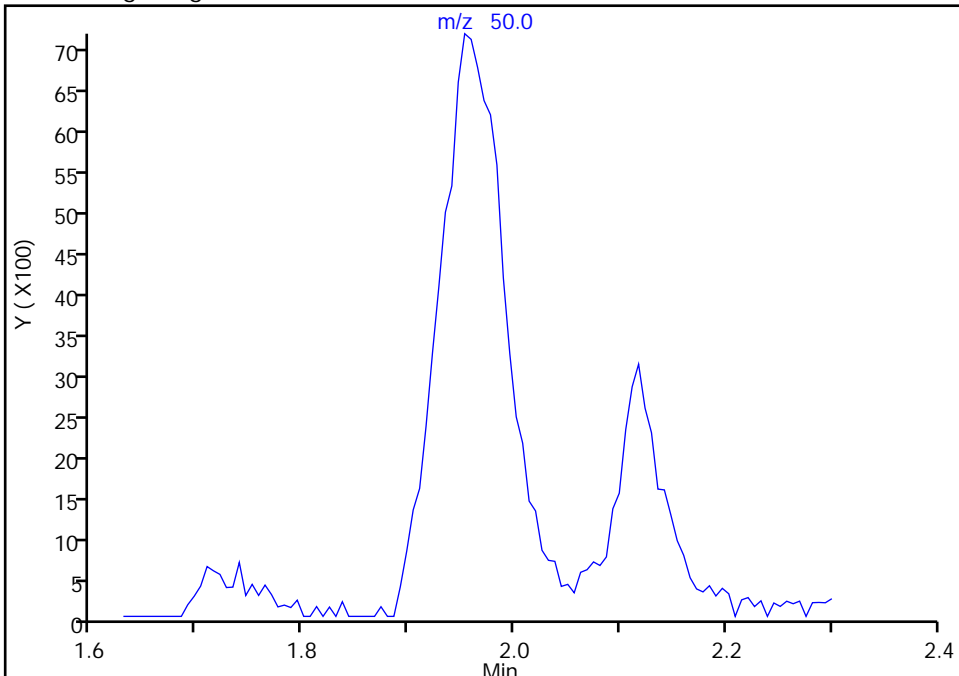
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Injection Date: 14-Jul-2020 17:27:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Signal: 1

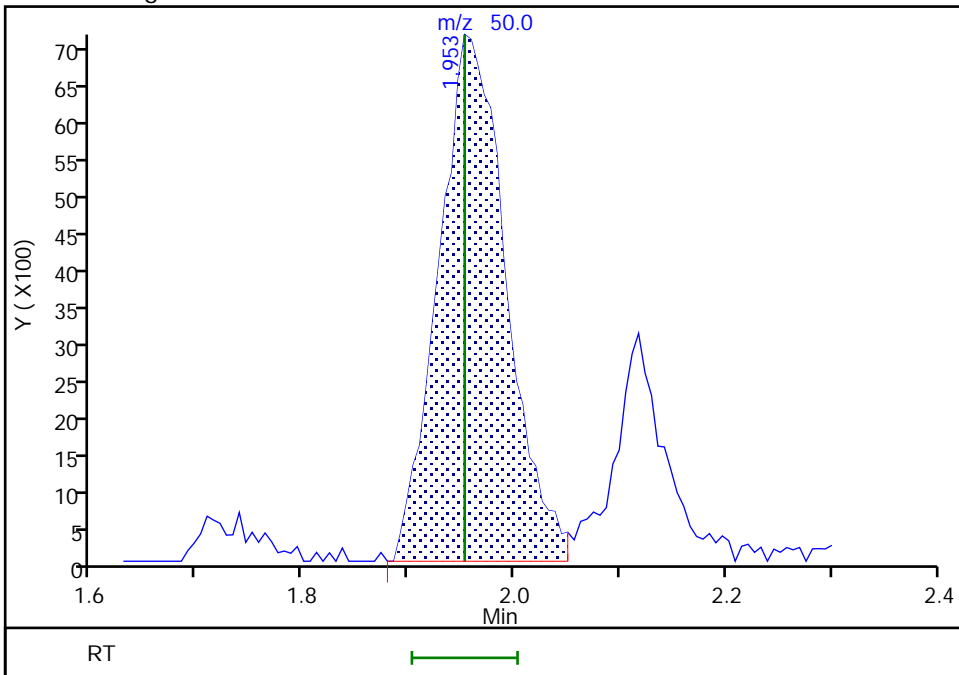
Not Detected  
Expected RT: 1.95

Processing Integration Results



Manual Integration Results

RT: 1.95  
Area: 32029  
Amount: 8.946513  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 15:26:24  
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

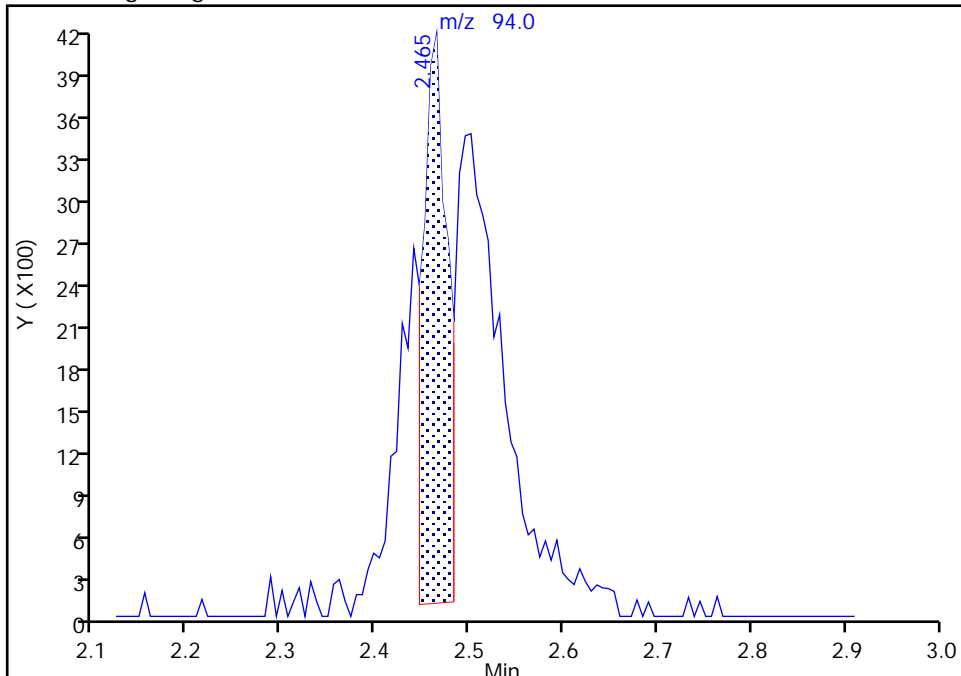
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Injection Date: 14-Jul-2020 17:27:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

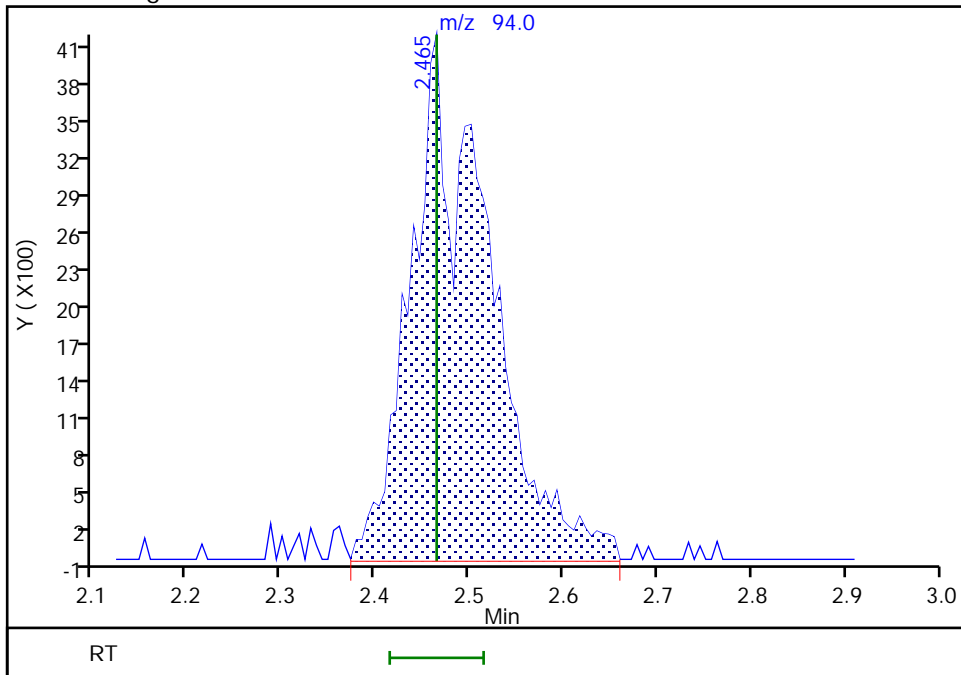
RT: 2.46  
Area: 7470  
Amount: 2.389878  
Amount Units: ug/L

Processing Integration Results



RT: 2.46  
Area: 24078  
Amount: 7.556652  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:26:35  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 298 of 425

Eurofins TestAmerica, Seattle

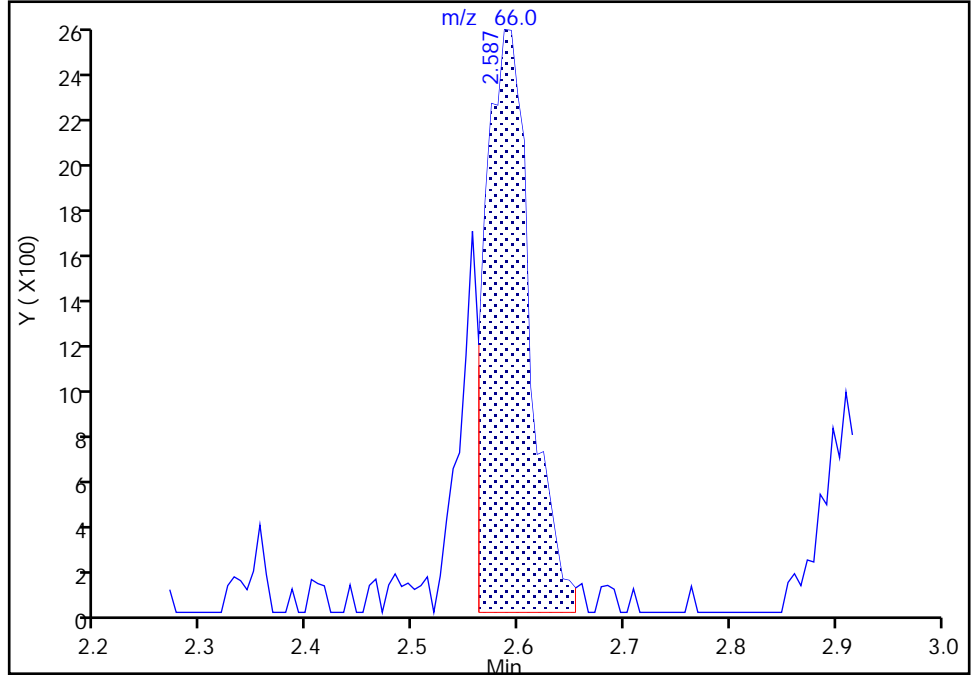
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Injection Date: 14-Jul-2020 17:27:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Signal: 1

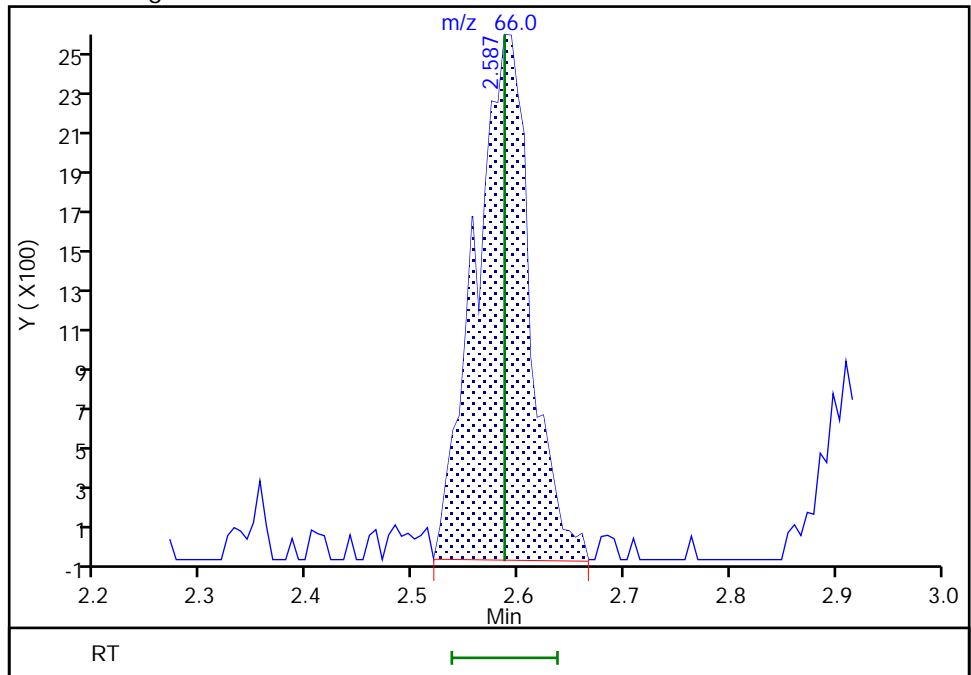
RT: 2.59  
Area: 7594  
Amount: 8.893165  
Amount Units: ug/L

Processing Integration Results



RT: 2.59  
Area: 9411  
Amount: 9.298450  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:26:42  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

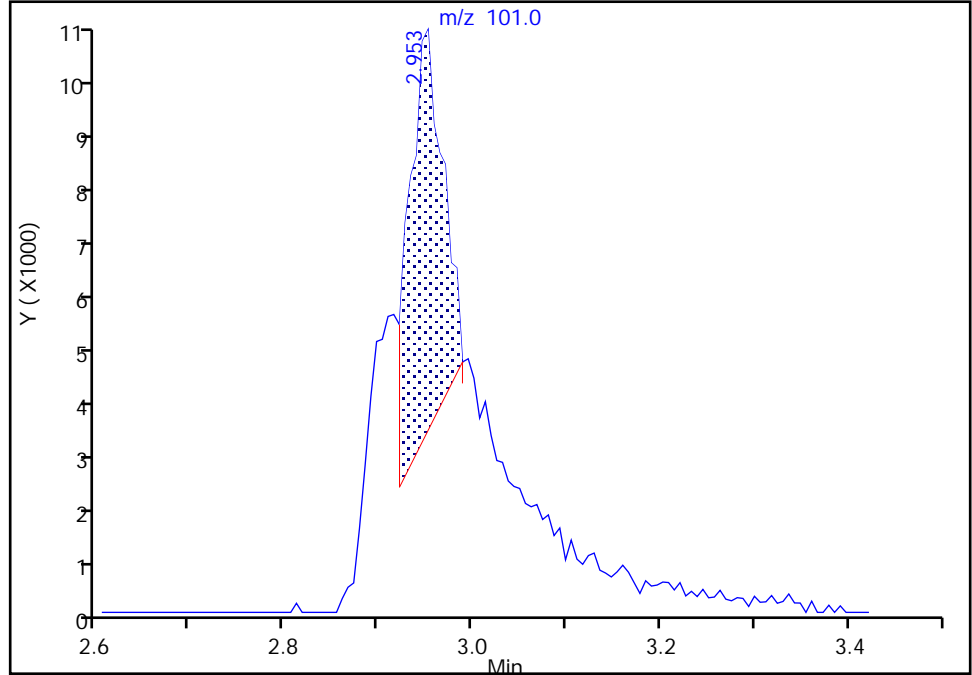
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Injection Date: 14-Jul-2020 17:27:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

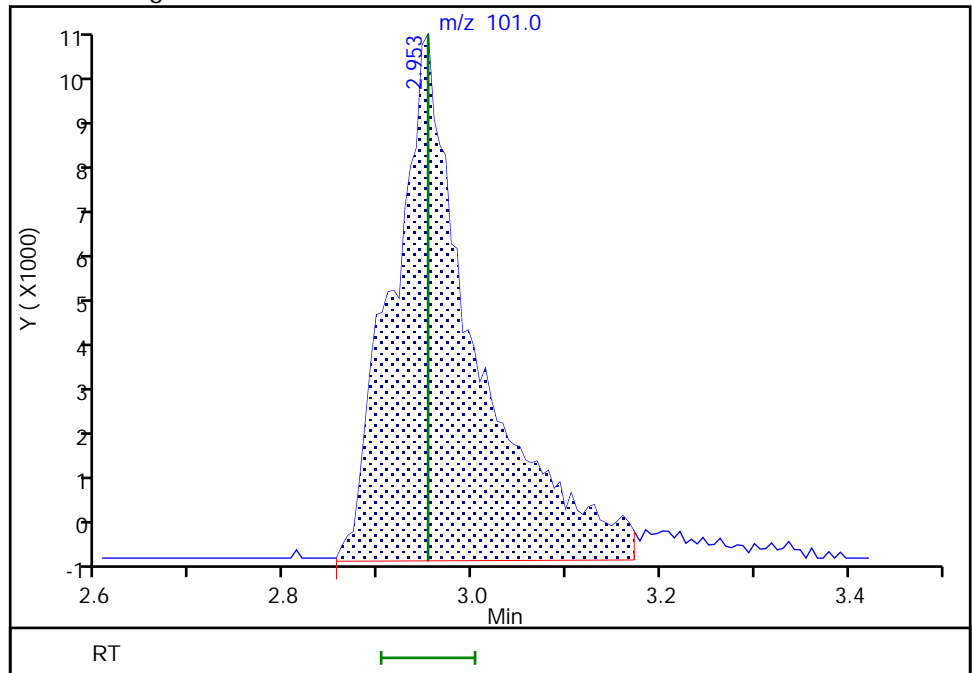
RT: 2.95  
Area: 18523  
Amount: 3.183029  
Amount Units: ug/L

Processing Integration Results



RT: 2.95  
Area: 65273  
Amount: 10.193052  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:26:54  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

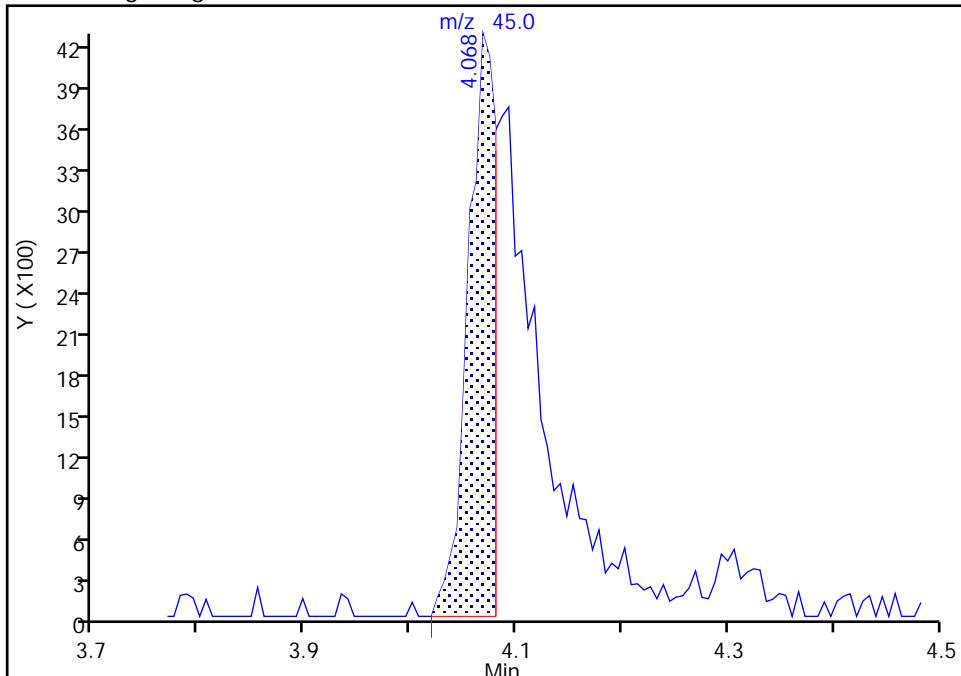
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_007.D  
Injection Date: 14-Jul-2020 17:27:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

15 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

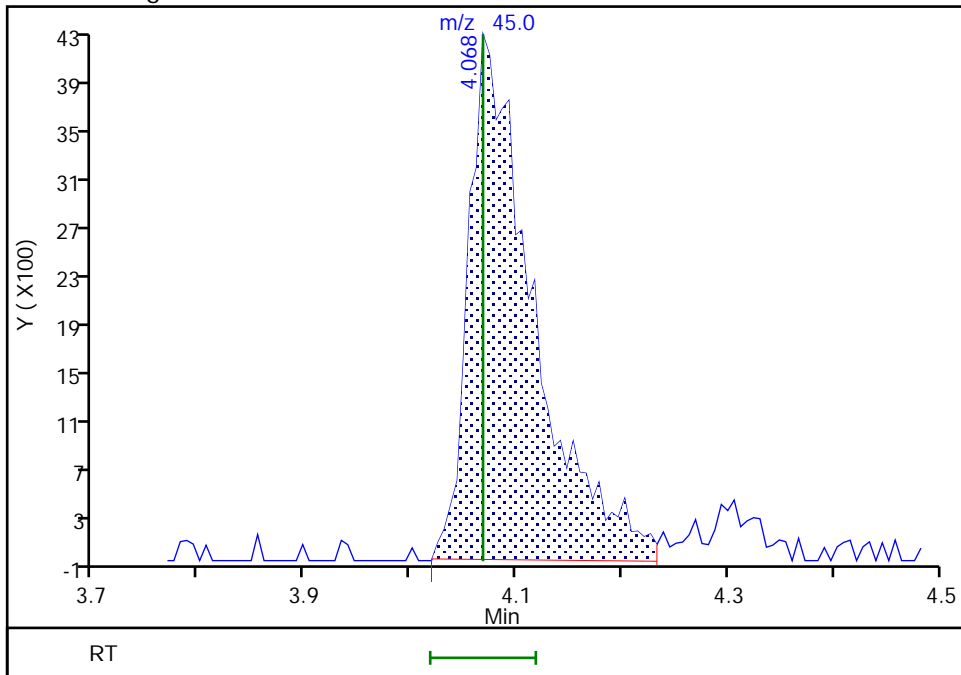
RT: 4.07  
Area: 7809  
Amount: 52.426209  
Amount Units: ug/L

Processing Integration Results



RT: 4.07  
Area: 18191  
Amount: 107.8784  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:27:08  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

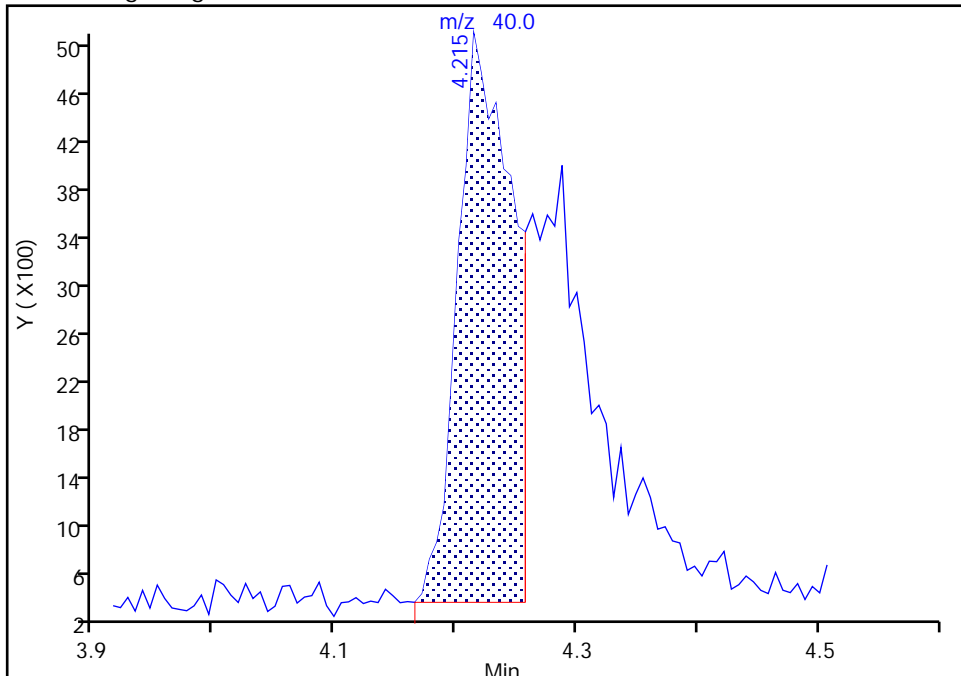
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Injection Date: 14-Jul-2020 17:27:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

13 Acetonitrile, CAS: 75-05-8

Signal: 1

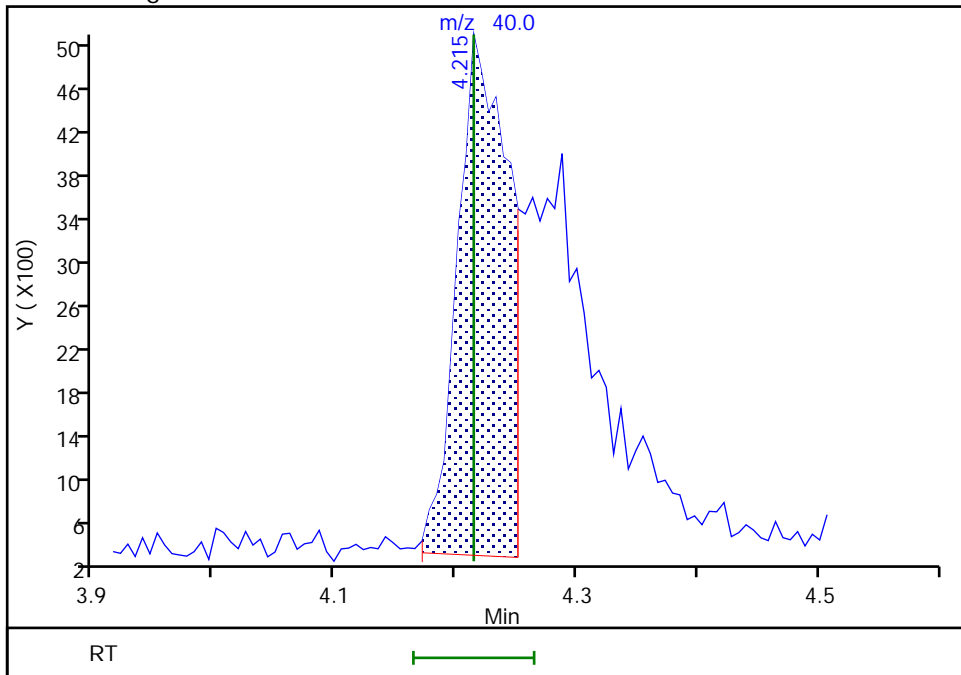
RT: 4.21  
Area: 14992  
Amount: 148.0121  
Amount Units: ug/L

Processing Integration Results



RT: 4.21  
Area: 14171  
Amount: 116.8464  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 09:21:22  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

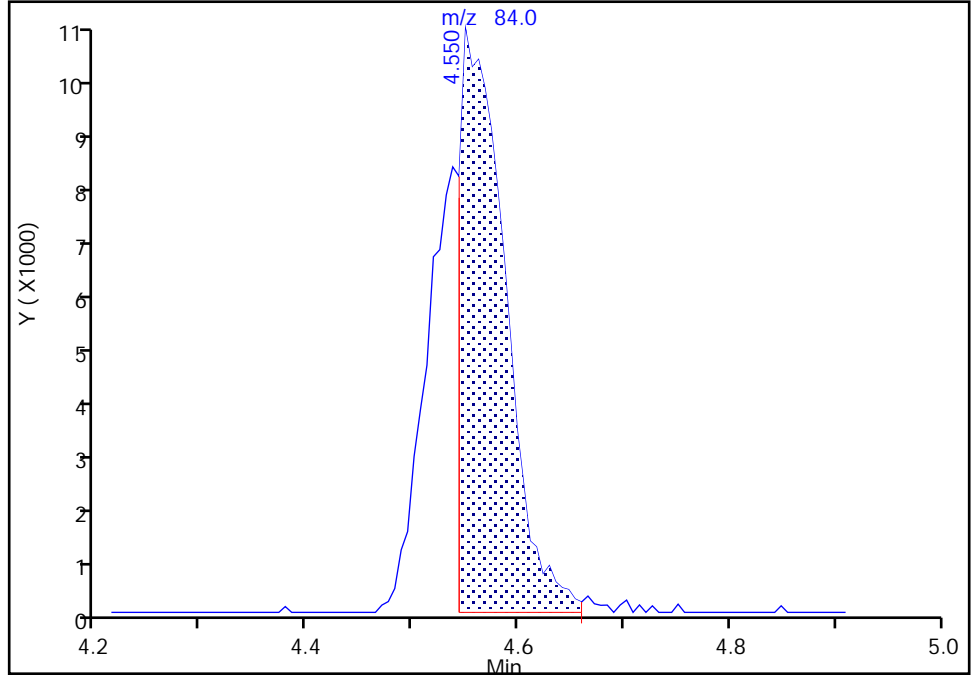
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Injection Date: 14-Jul-2020 17:27:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

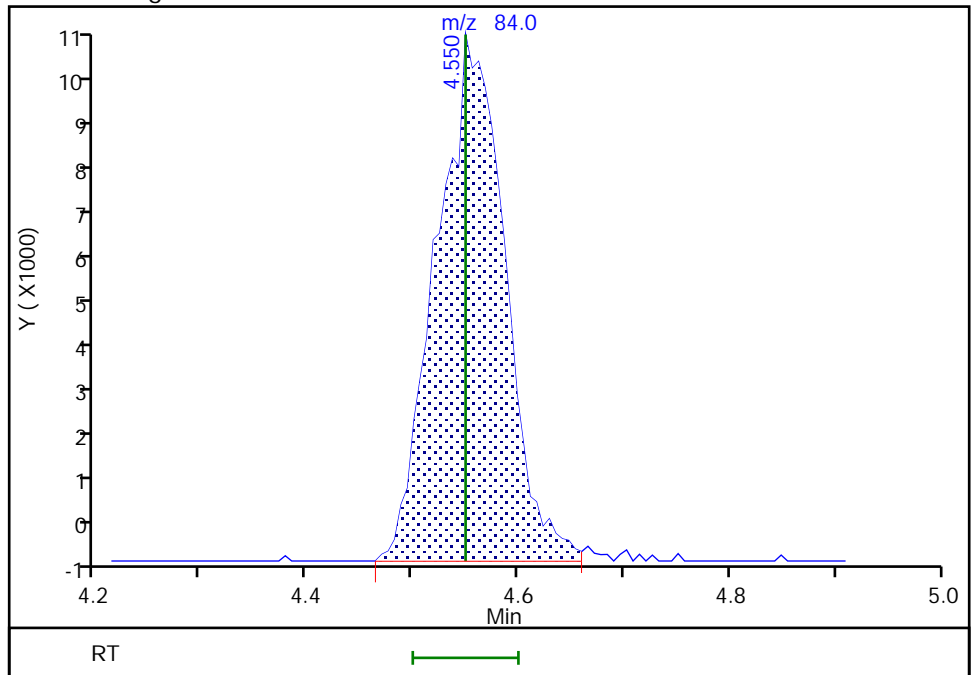
RT: 4.55  
Area: 32304  
Amount: 6.990748  
Amount Units: ug/L

Processing Integration Results



RT: 4.55  
Area: 48325  
Amount: 9.542927  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:27:28  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

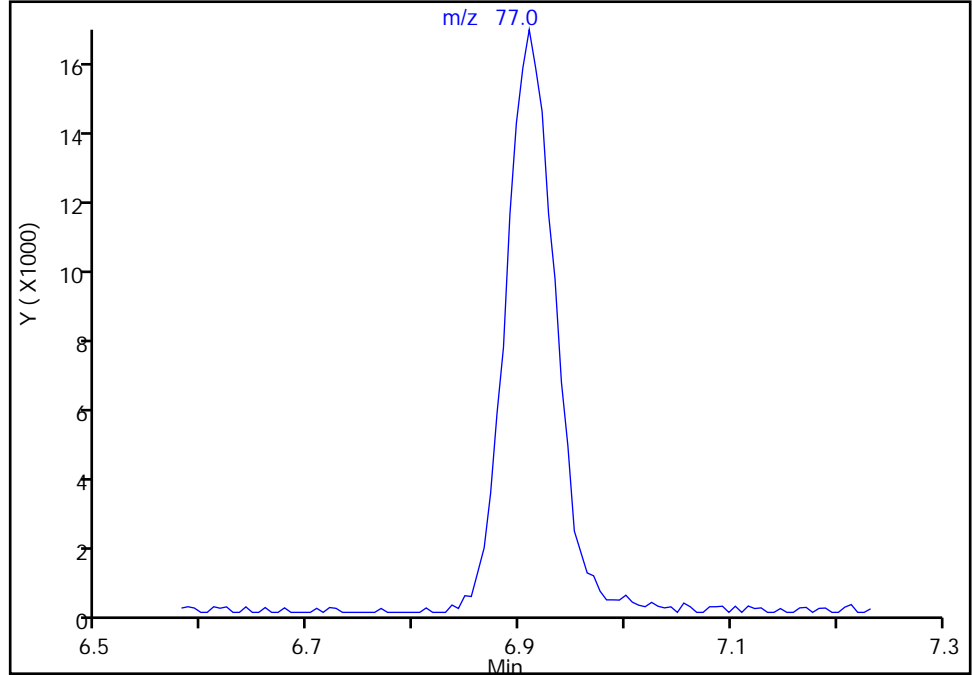
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Injection Date: 14-Jul-2020 17:27:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

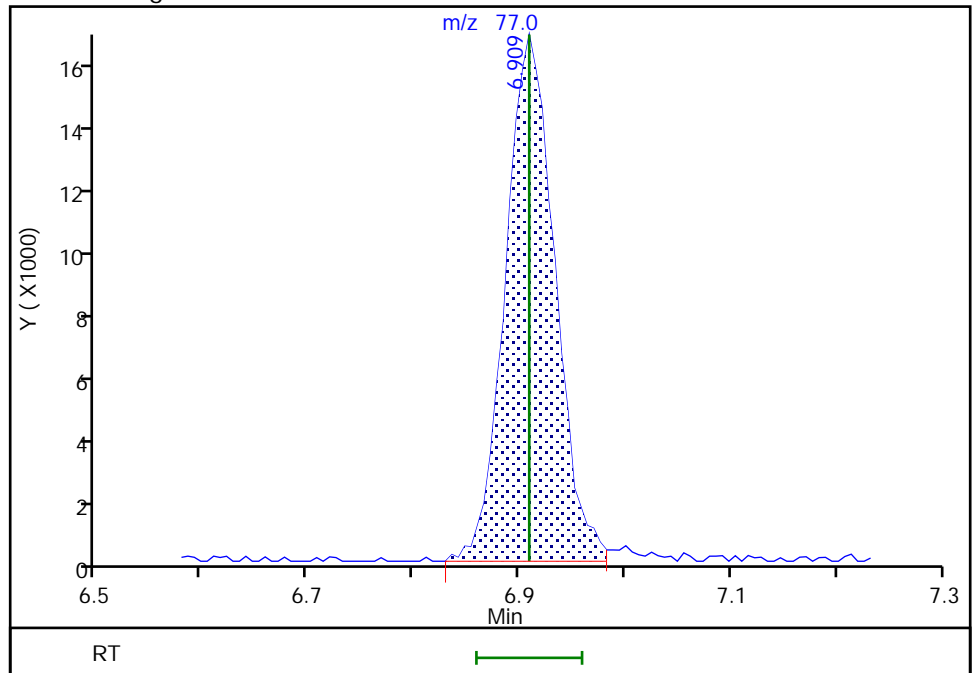
Not Detected  
Expected RT: 6.91

Processing Integration Results



Manual Integration Results

RT: 6.91  
Area: 54333  
Amount: 9.514210  
Amount Units: ug/L



Eurofins TestAmerica, Seattle

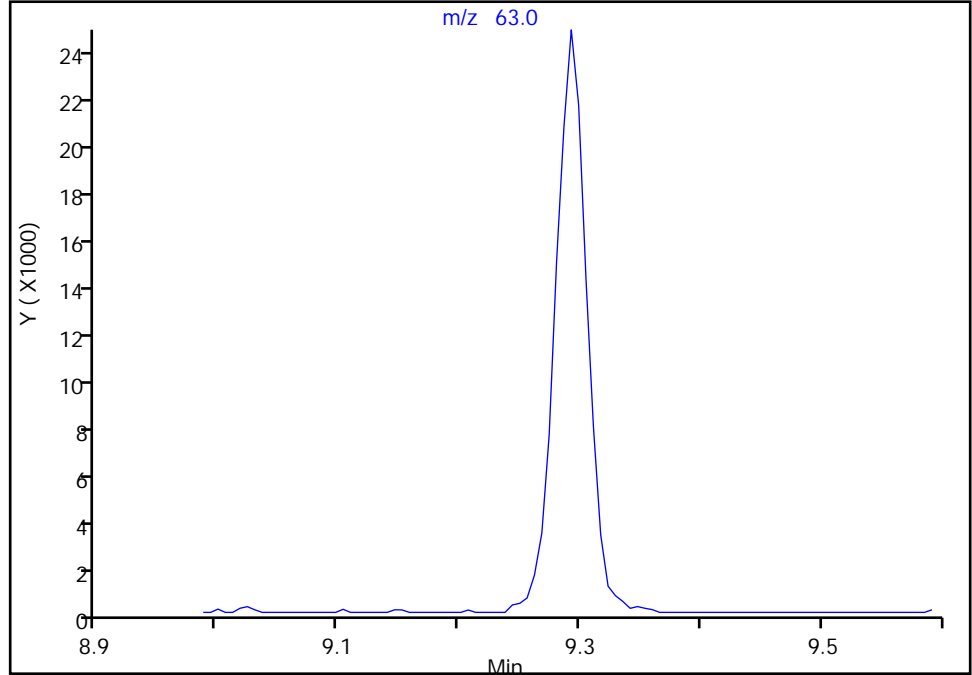
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Injection Date: 14-Jul-2020 17:27:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

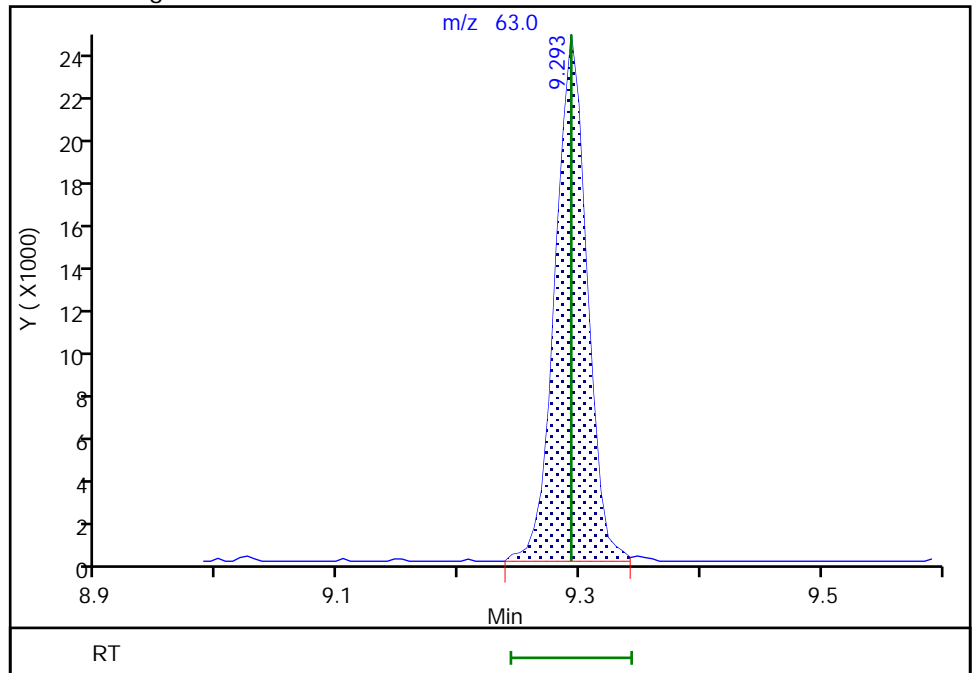
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 44856  
Amount: 9.946004  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 15:28:27  
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration  
Page 305 of 425

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_008.D  
 Lims ID: ICIS  
 Client ID:  
 Sample Type: ICIS Calib Level: 6  
 Inject. Date: 14-Jul-2020 17:54:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 2  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Jul-2020 10:15:45 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1065

First Level Reviewer: limwirojt Date: 15-Jul-2020 14:27:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.715	1.715	0.000	85	47856	20.0	23.6	
4 Chloromethane	50	1.959	1.959	0.000	82	68124	20.0	22.4	
5 Vinyl chloride	62	2.075	2.075	0.000	77	76892	20.0	24.1	
6 Butadiene	54	2.124	2.124	0.000	89	54084	20.0	22.7	
7 Bromomethane	94	2.477	2.477	0.000	90	60028	20.0	22.2	M
8 Chloroethane	66	2.599	2.599	0.000	93	18715	20.0	23.8	
10 Dichlorofluoromethane	67	2.928	2.928	0.000	97	128771	20.0	23.4	
14 Trichlorofluoromethane	101	2.947	2.947	0.000	91	120819	20.0	22.2	Ma
11 3-Chloro-1-propene	76	2.989	2.989	0.000	70	11201	20.0	23.2	M
17 Ethyl ether	59	3.331	3.331	0.000	88	65690	20.0	24.9	
12 Acrolein	56	3.520	3.520	0.000	90	71550	120.0	137.7	
19 1,1-Dichloroethene	96	3.702	3.702	0.000	86	73249	20.0	22.4	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.745	3.745	0.000	68	86114	20.0	22.8	M
16 Acetone	43	3.745	3.745	0.000	99	109058	100.0	104.9	
22 Iodomethane	142	3.910	3.910	0.000	96	153788	20.0	22.7	
26 Carbon disulfide	76	4.019	4.019	0.000	99	249563	20.0	23.6	
15 Isopropyl alcohol	45	4.044	4.044	0.000	97	29384	200.0	179.2	
13 Acetonitrile	40	4.215	4.215	0.000	99	28629	250.0	264.0	a
24 Methyl acetate	43	4.306	4.306	0.000	96	106471	40.0	44.7	
23 Methylene Chloride	84	4.574	4.574	0.000	81	88732	20.0	21.7	M
* 18 TBA-d9 (IS)	65	4.666	4.666	0.000	0	75876	200.0	200.0	
20 2-Methyl-2-propanol	59	4.818	4.818	0.000	98	80690	200.0	233.6	
21 Acrylonitrile	53	4.977	4.977	0.000	99	243077	200.0	249.5	
27 trans-1,2-Dichloroethene	96	5.068	5.068	0.000	62	100739	20.0	23.0	
28 Methyl tert-butyl ether	73	5.080	5.080	0.000	81	249566	20.0	23.9	
34 Hexane	57	5.647	5.647	0.000	89	134059	20.0	23.9	
30 1,1-Dichloroethane	63	5.903	5.903	0.000	85	153512	20.0	23.3	
31 Vinyl acetate	86	5.983	5.983	0.000	97	46843	50.0	52.7	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	78	138467	20.0	24.3	
35 Isopropyl ether	45	6.056	6.056	0.000	55	308976	25.0	30.4	
41 Tert-butyl ethyl ether	87	6.702	6.702	0.000	95	153361	25.0	29.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.909	6.909	0.000	73	95998	20.0	19.8	
37 cis-1,2-Dichloroethene	96	6.921	6.921	0.000	64	116732	20.0	23.7	
33 2-Butanone (MEK)	72	6.927	6.921	0.006	97	54865	100.0	116.9	
29 Propionitrile	54	7.007	7.007	0.000	90	126769	250.0	310.7	
38 Ethyl acetate	43	7.055	7.055	0.000	99	139004	40.0	49.2	
36 Methacrylonitrile	67	7.263	7.263	0.000	89	362868	200.0	250.0	
39 Chlorobromomethane	130	7.305	7.305	0.000	75	81467	20.0	23.7	
40 Chloroform	83	7.507	7.507	0.000	80	177274	20.0	23.9	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	95	153489	20.0	23.2	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	73	42426	10.0	9.74	
51 Cyclohexane	84	7.799	7.799	0.000	85	148087	20.0	23.3	
52 Carbon tetrachloride	117	7.927	7.927	0.000	91	148093	20.0	23.3	
50 1,1-Dichloropropene	75	7.946	7.946	0.000	95	136349	20.0	23.3	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	40586	10.0	10.1	
53 Benzene	78	8.196	8.196	0.000	95	412523	20.0	23.4	
42 Isobutyl alcohol	43	8.202	8.202	0.000	45	74234	500.0	588.3	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	80	113229	20.0	22.8	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	92	319868	25.0	30.5	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	99	176323	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.634	0.000	28	34399	40.0	48.5	
56 n-Heptane	43	8.628	8.628	0.000	83	127300	20.0	23.5	
61 Trichloroethene	132	9.019	9.019	0.000	92	132973	20.0	23.0	
57 Ethyl acrylate	55	9.153	9.153	0.000	98	94984	20.0	24.8	
49 n-Butanol	56	9.262	9.262	0.000	41	39855	500.0	586.9	
66 Methylcyclohexane	83	9.262	9.262	0.000	84	191324	20.0	23.6	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	92	88302	20.0	23.0	a
59 Dibromomethane	174	9.390	9.390	0.000	69	85566	20.0	22.7	
63 Methyl methacrylate	69	9.396	9.396	0.000	83	125126	40.0	50.6	
62 Dichlorobromomethane	83	9.592	9.592	0.000	99	130931	20.0	23.7	
58 2-Nitropropane	43	9.805	9.805	0.000	96	46055	40.0	47.0	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	91	40758	20.0	24.7	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	93	153648	20.0	25.0	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	94	161318	100.0	122.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	91	179768	10.0	10.2	
74 Toluene	91	10.341	10.341	0.000	97	477074	20.0	23.3	
70 n-Butyl acetate	43	10.476	10.476	0.000	87	9953	20.0	22.3	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	88	136254	20.0	24.7	
73 Ethyl methacrylate	69	10.622	10.622	0.000	67	100129	20.0	25.4	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	89	86196	20.0	23.0	
79 Tetrachloroethene	164	10.817	10.817	0.000	92	123820	20.0	24.0	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	85	140232	20.0	24.5	
76 2-Hexanone	58	10.933	10.933	0.000	77	159897	100.0	122.8	
77 Chlorodibromomethane	129	11.079	11.079	0.000	88	110928	20.0	24.1	
78 Ethylene Dibromide	107	11.171	11.171	0.000	99	87273	20.0	23.6	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	82	147482	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	97	323887	20.0	23.5	
80 1,1,1,2-Tetrachloroethane	131	11.677	11.677	0.000	50	116306	20.0	23.5	
83 Ethylbenzene	91	11.683	11.683	0.000	97	519545	20.0	23.6	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	392606	20.0	24.0	
88 o-Xylene	91	12.115	12.115	0.000	95	395204	20.0	24.5	
86 Styrene	104	12.128	12.128	0.000	94	323285	20.0	24.1	
85 Bromoform	173	12.286	12.286	0.000	97	82375	20.0	23.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
91 Isopropylbenzene	105	12.414	12.414	0.000	94	526298	20.0	24.3	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.561	12.561	0.000	95	70375	10.0	9.98	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	95	100181	20.0	24.2	
93 Bromobenzene	156	12.682	12.682	0.000	81	155019	20.0	24.2	
89 trans-1,4-Dichloro-2-butene	53	12.689	12.689	0.000	58	25548	20.0	23.0	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	33	35130	20.0	23.3	
94 N-Propylbenzene	91	12.749	12.749	0.000	88	599780	20.0	24.9	
95 2-Chlorotoluene	126	12.829	12.829	0.000	98	133019	20.0	23.7	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	95	435454	20.0	25.5	
96 4-Chlorotoluene	126	12.926	12.926	0.000	87	136283	20.0	23.9	
98 tert-Butylbenzene	119	13.152	13.152	0.000	89	403131	20.0	25.2	
99 1,2,4-Trimethylbenzene	105	13.195	13.195	0.000	51	434601	20.0	21.5	
100 sec-Butylbenzene	105	13.323	13.323	0.000	93	580904	20.0	25.1	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	96	285307	20.0	23.8	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	96	508522	20.0	24.6	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	62	81340	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.512	13.512	0.000	97	286811	20.0	23.8	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	97	430498	20.0	25.0	
101 Benzyl chloride	126	13.591	13.591	0.000	97	48324	20.0	25.8	
108 n-Butylbenzene	134	13.761	13.761	0.000	97	136208	20.0	24.6	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	96	265645	20.0	23.9	
109 1,2-Dibromo-3-Chloropropane	157	14.402	14.402	0.000	88	24525	20.0	23.1	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	96	225371	20.0	23.0	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	91	178181	20.0	22.2	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	89	128341	20.0	22.3	
112 Naphthalene	128	15.249	15.249	0.000	96	306419	20.0	23.1	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	96	161680	20.0	22.7	

### QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 2.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_008.D

Injection Date: 14-Jul-2020 17:54:30

Instrument ID: TAC119

Lims ID: ICIS

Client ID:

Operator ID: cjb

ALS Bottle#: 8

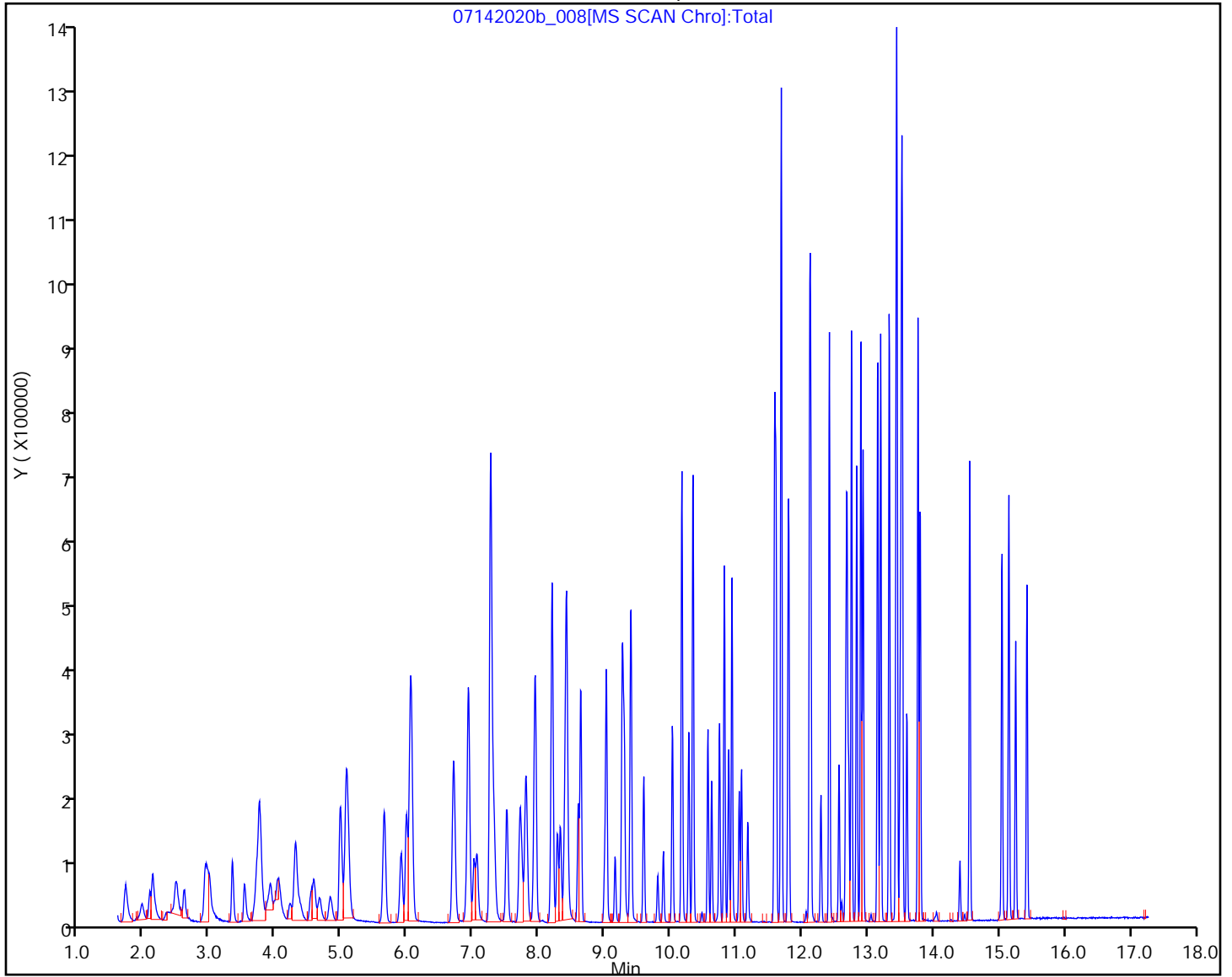
Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C





Eurofins TestAmerica, Seattle

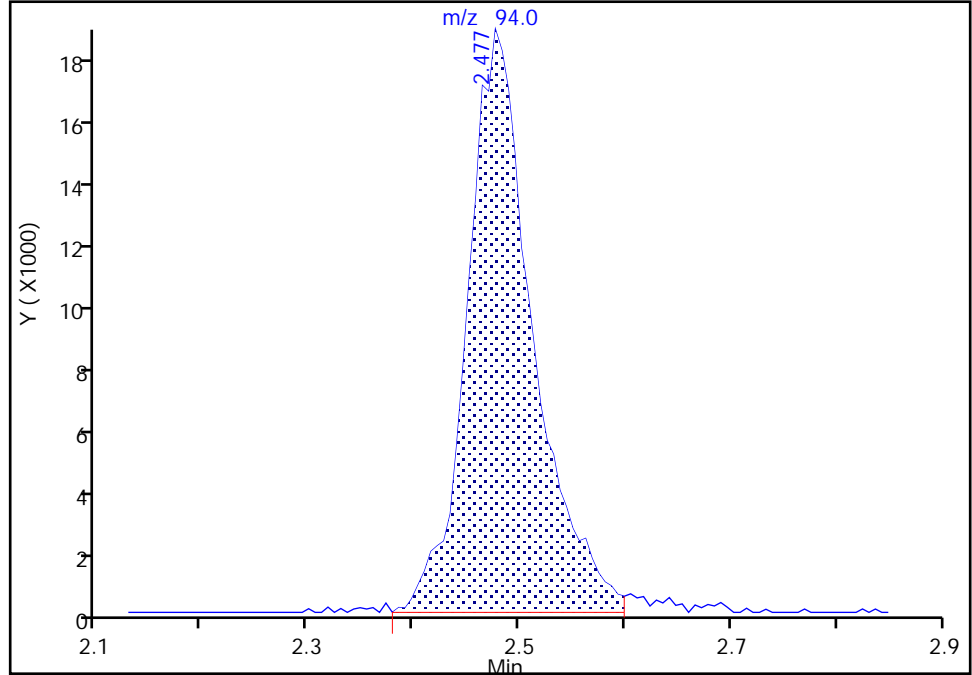
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Injection Date: 14-Jul-2020 17:54:30 Instrument ID: TAC119  
Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

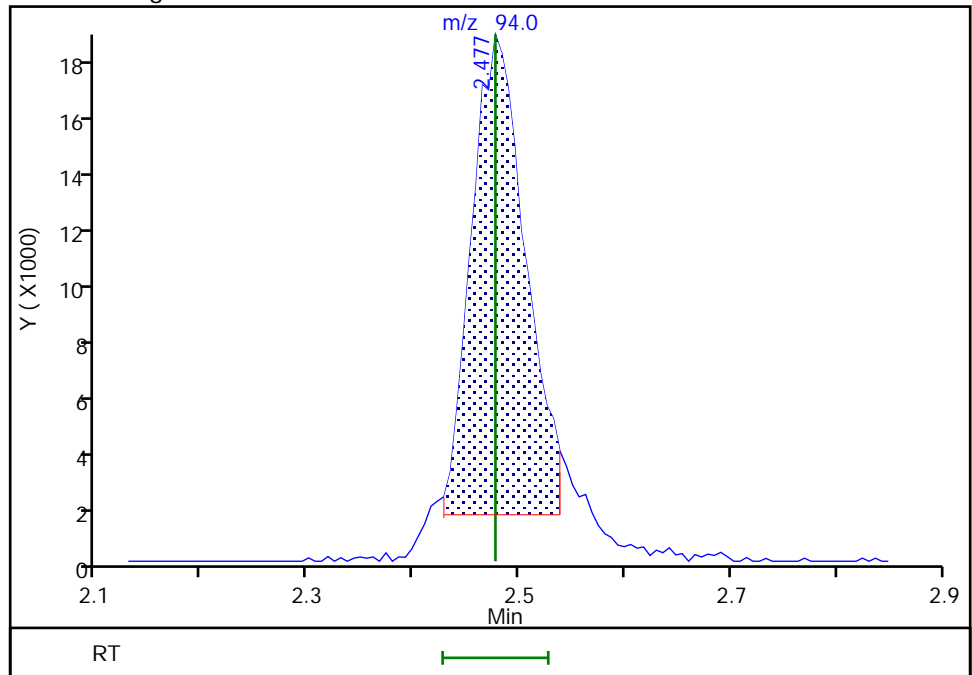
RT: 2.48  
Area: 80005  
Amount: 28.249351  
Amount Units: ug/L

Processing Integration Results



RT: 2.48  
Area: 60028  
Amount: 22.173101  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 09:17:21  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

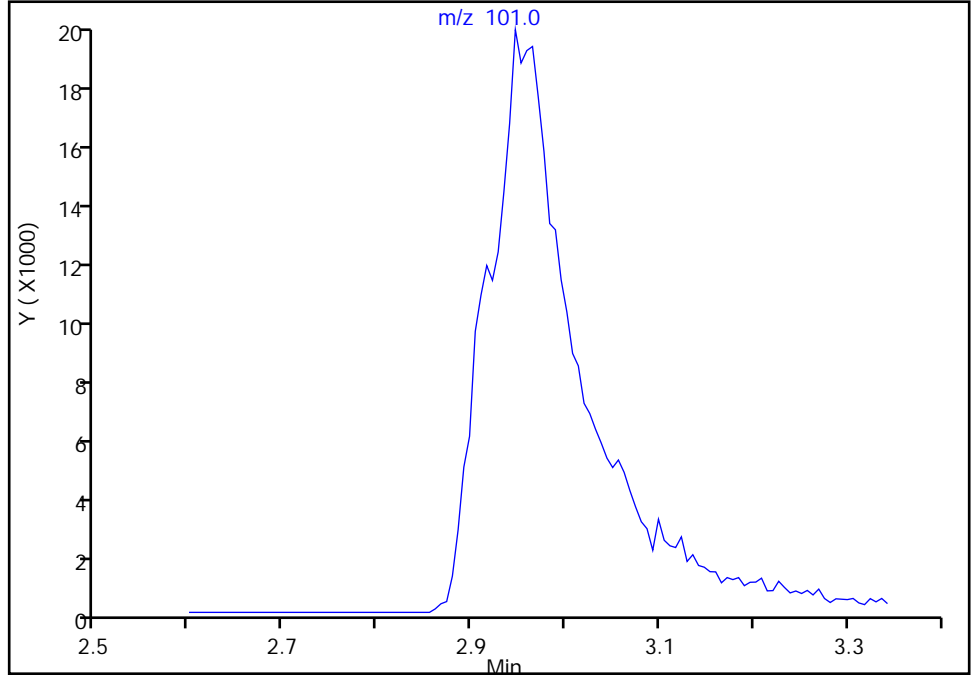
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Injection Date: 14-Jul-2020 17:54:30 Instrument ID: TAC119  
Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

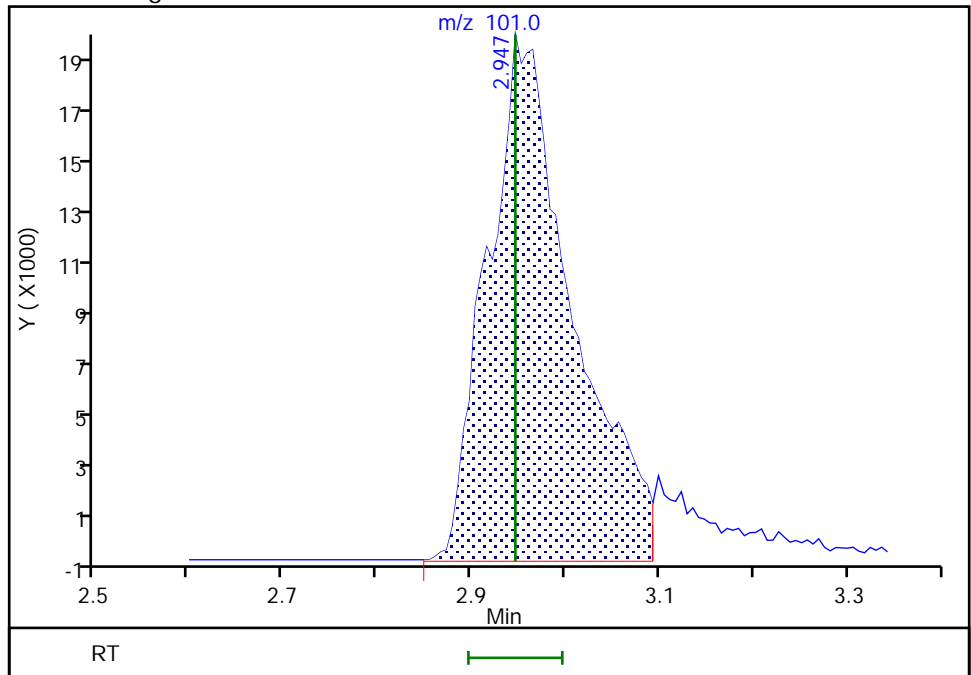
Not Detected  
Expected RT: 2.95

Processing Integration Results



RT: 2.95  
Area: 120819  
Amount: 22.205955  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:21:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

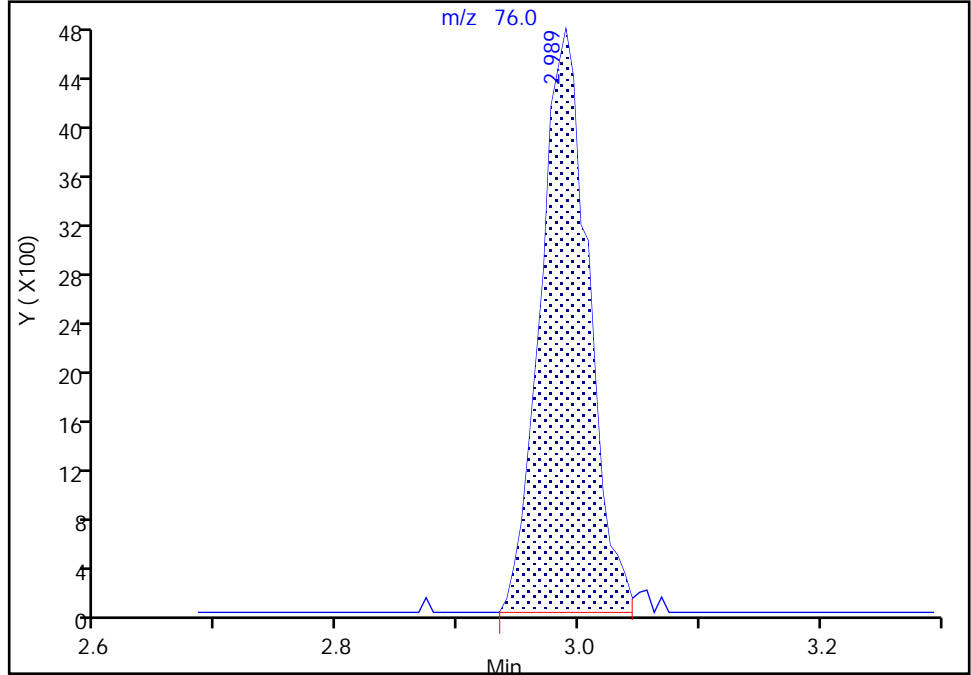
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_008.D  
Injection Date: 14-Jul-2020 17:54:30 Instrument ID: TAC119  
Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

11 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

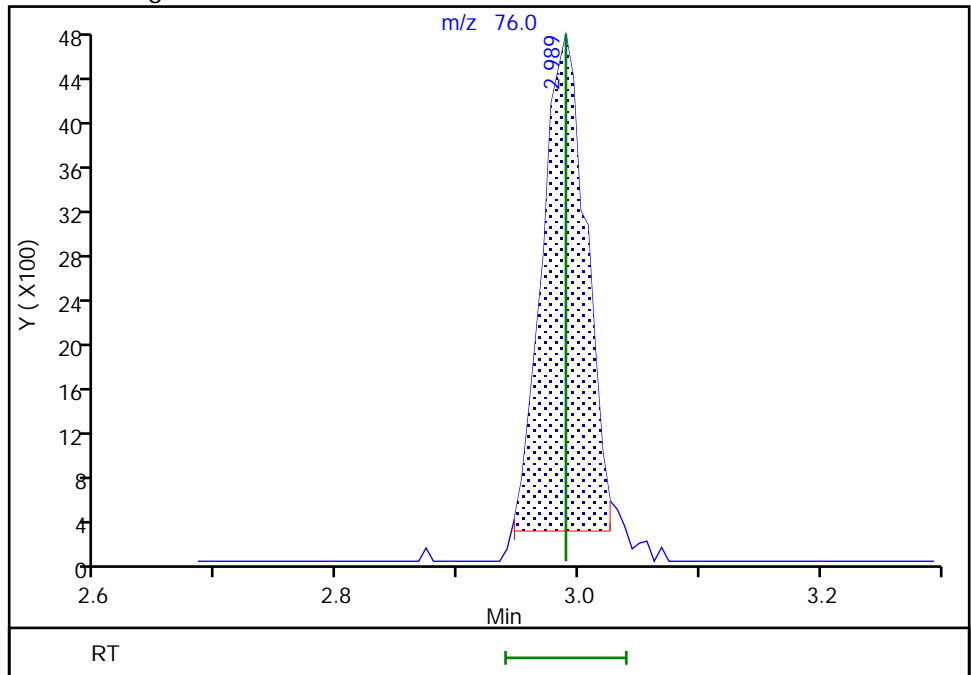
RT: 2.99  
Area: 12947  
Amount: 32.471134  
Amount Units: ug/L

Processing Integration Results



RT: 2.99  
Area: 11201  
Amount: 23.188884  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 09:17:43  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

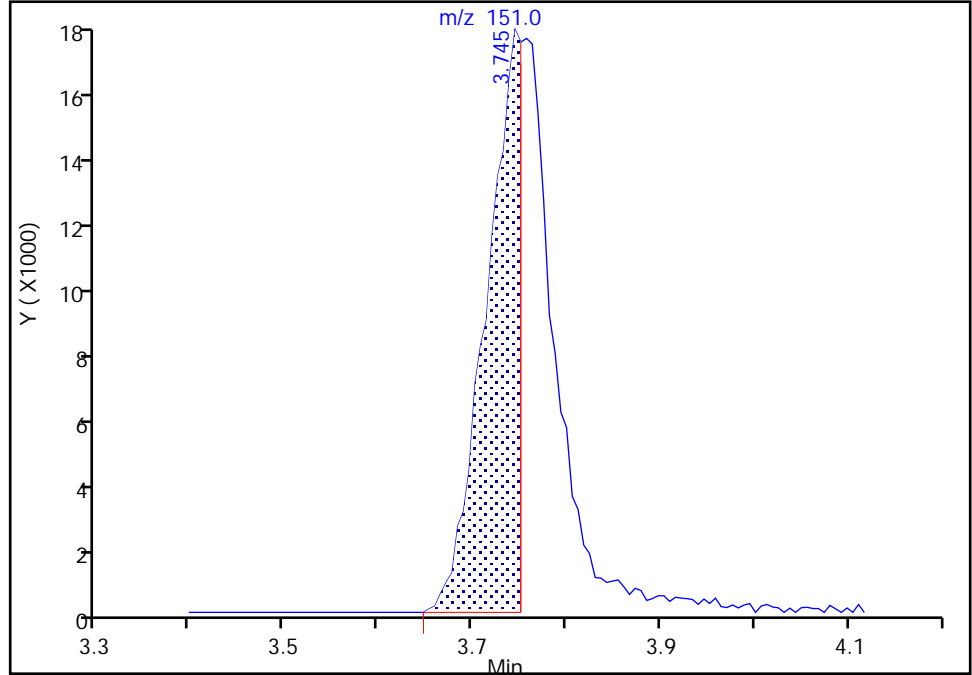
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_008.D  
Injection Date: 14-Jul-2020 17:54:30 Instrument ID: TAC119  
Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

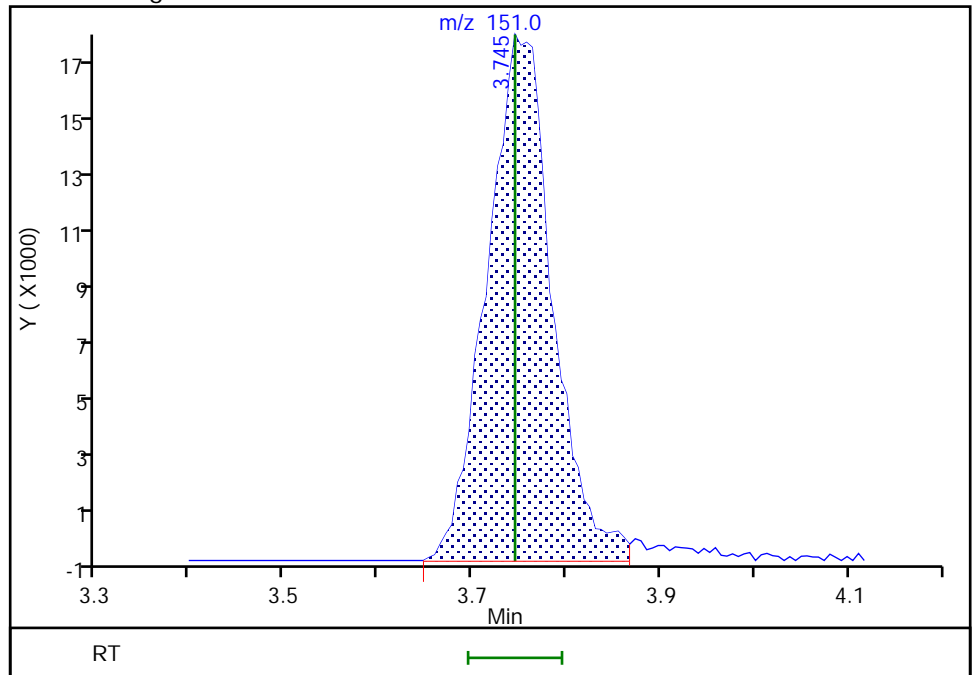
RT: 3.75  
Area: 46401  
Amount: 17.594320  
Amount Units: ug/L

Processing Integration Results



RT: 3.75  
Area: 86114  
Amount: 22.755369  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 14:21:54  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 313 of 425

Eurofins TestAmerica, Seattle

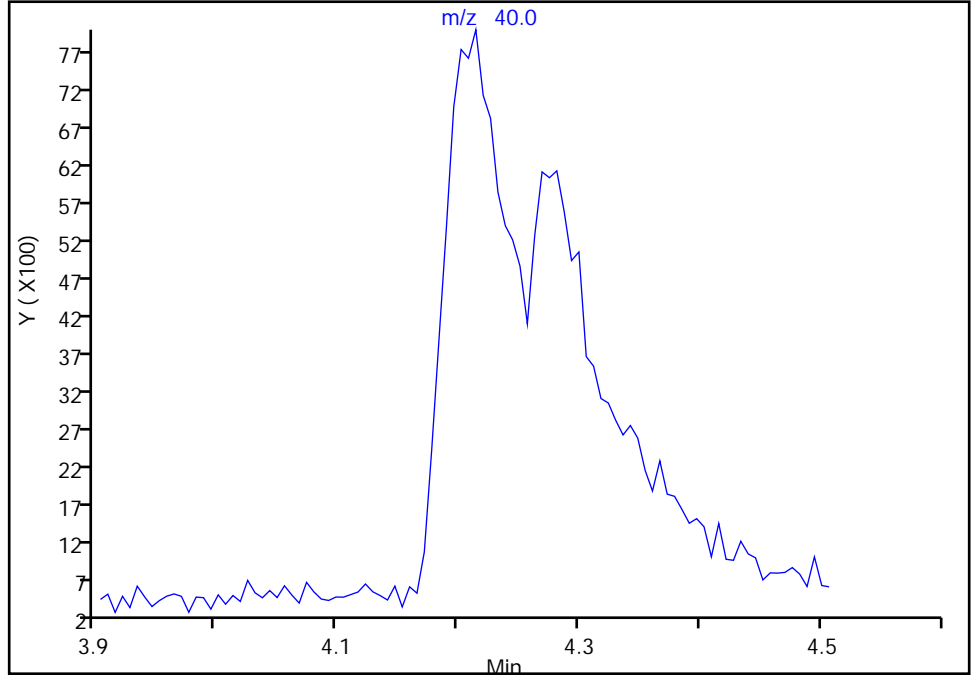
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_008.D  
Injection Date: 14-Jul-2020 17:54:30 Instrument ID: TAC119  
Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

13 Acetonitrile, CAS: 75-05-8

Signal: 1

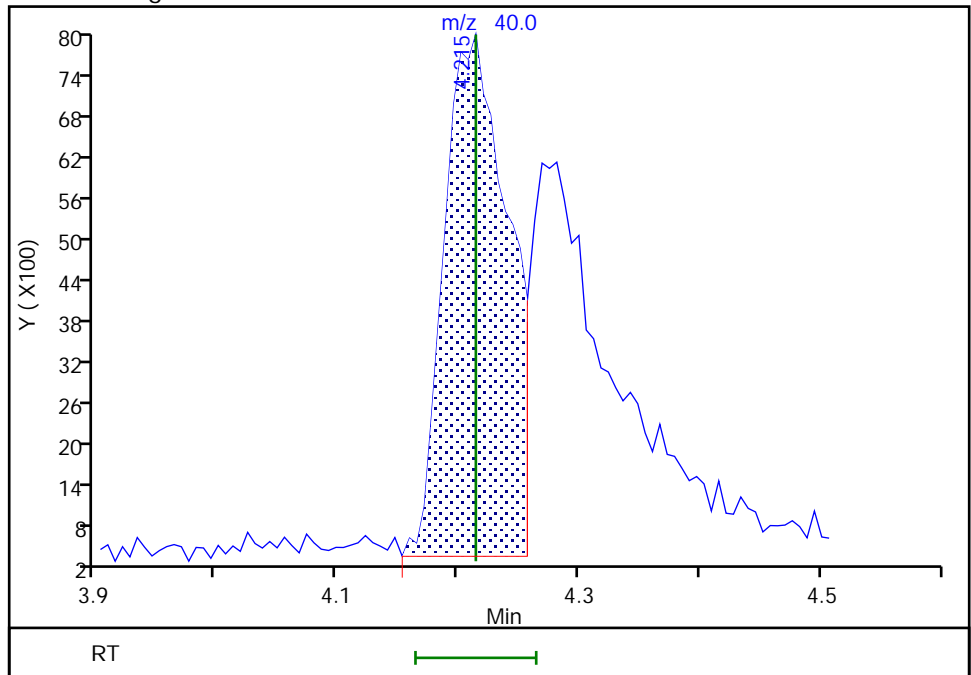
Not Detected  
Expected RT: 4.21

Processing Integration Results



Manual Integration Results

RT: 4.21  
Area: 28629  
Amount: 264.0190  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 14:21:58  
Audit Action: Assigned Compound ID

Eurofins TestAmerica, Seattle

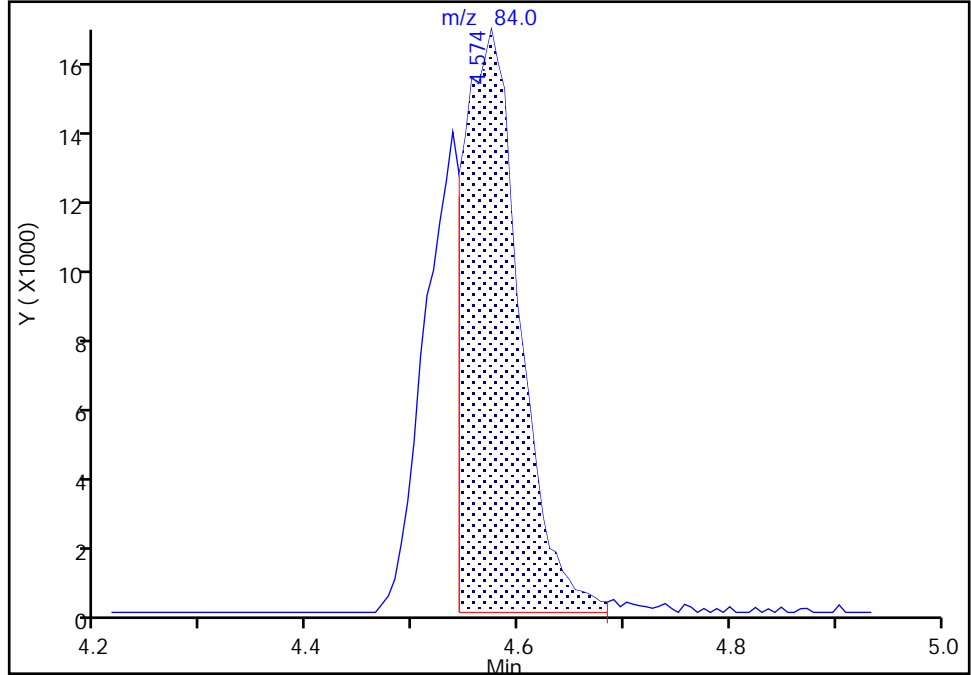
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_008.D  
Injection Date: 14-Jul-2020 17:54:30 Instrument ID: TAC119  
Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

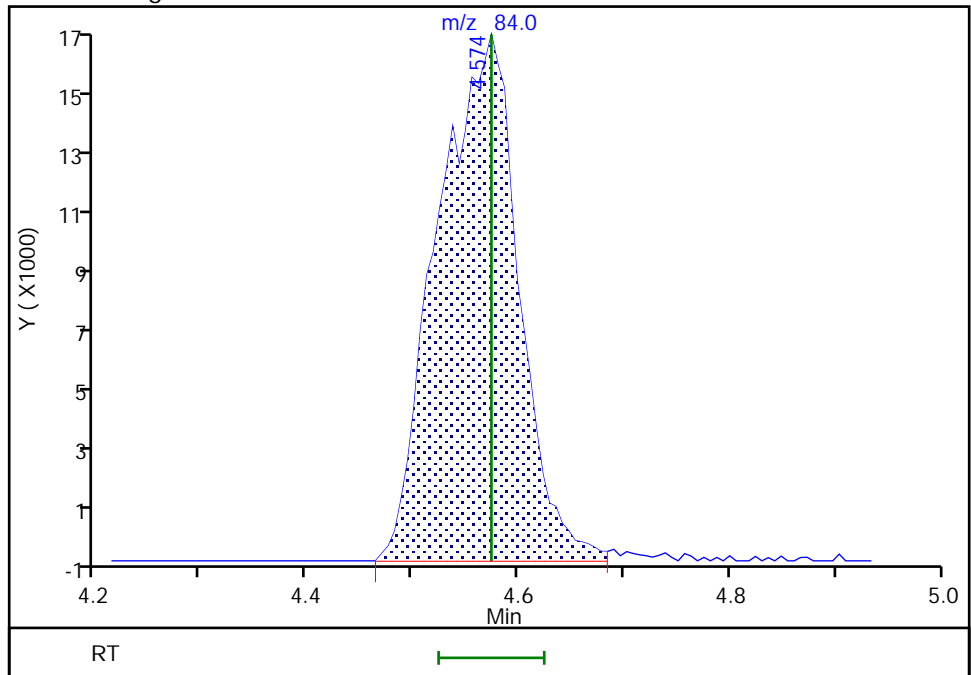
RT: 4.57  
Area: 61296  
Amount: 30.309172  
Amount Units: ug/L

Processing Integration Results



RT: 4.57  
Area: 88732  
Amount: 21.659663  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

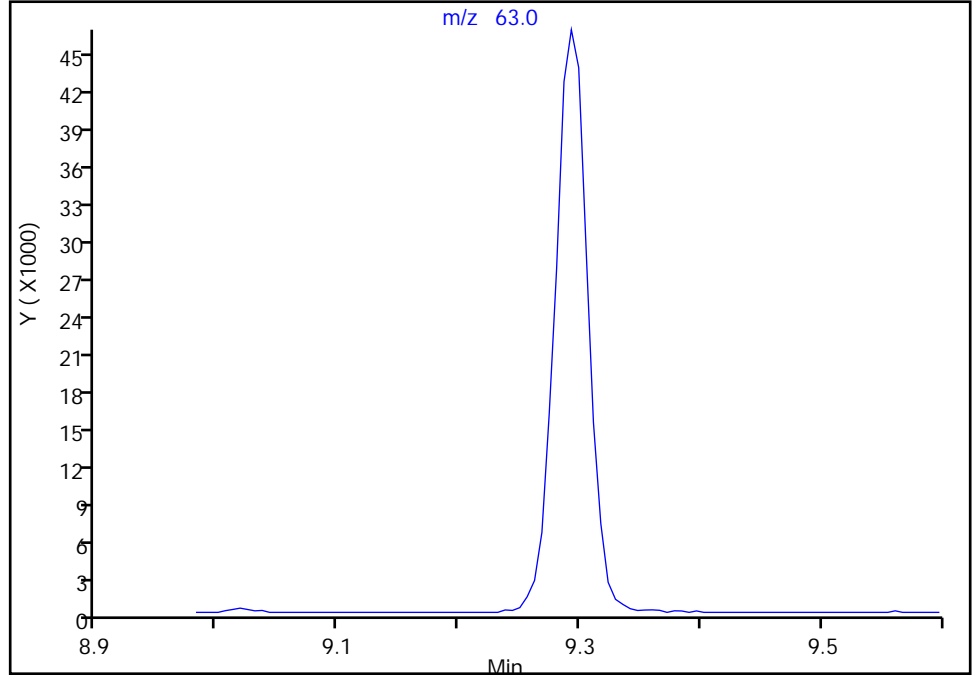
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_008.D  
Injection Date: 14-Jul-2020 17:54:30 Instrument ID: TAC119  
Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

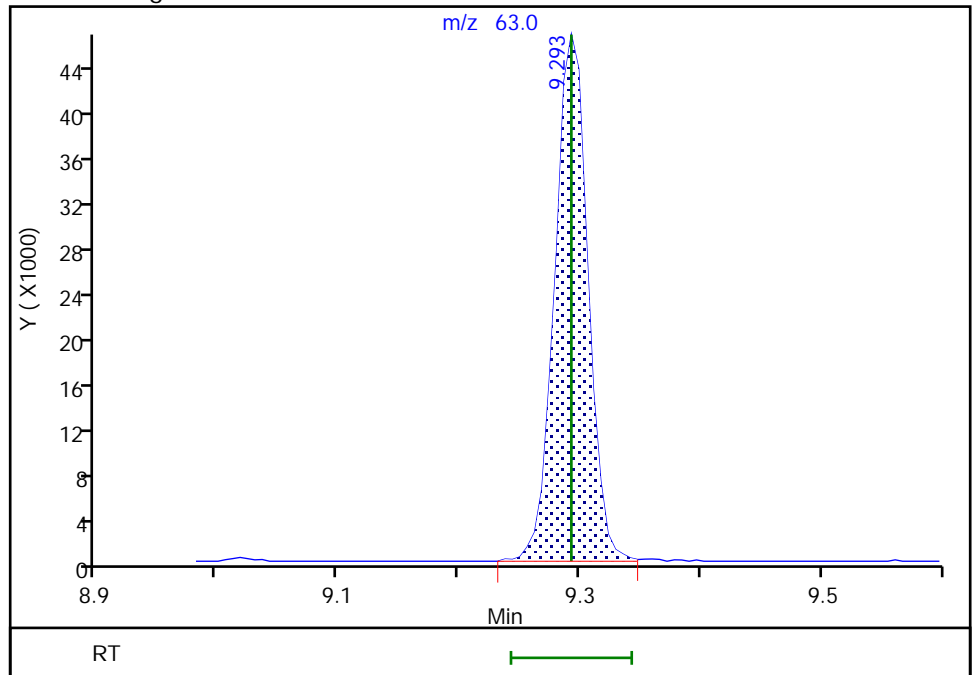
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 88302  
Amount: 23.044228  
Amount Units: ug/L



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_009.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 14-Jul-2020 18:21:30 ALS Bottle#: 9 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 5  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Jul-2020 10:15:57 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1065

First Level Reviewer: limwirojt Date: 15-Jul-2020 15:43:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.715	1.715	0.000	87	132499	50.0	54.2	
4 Chloromethane	50	1.959	1.959	0.000	82	183738	50.0	50.1	
5 Vinyl chloride	62	2.075	2.075	0.000	95	204767	50.0	53.3	
6 Butadiene	54	2.123	2.123	0.000	86	167090	50.0	58.3	
7 Bromomethane	94	2.489	2.489	0.000	89	164320	50.0	50.4	
8 Chloroethane	66	2.611	2.611	0.000	99	41146	50.0	44.6	
10 Dichlorofluoromethane	67	2.928	2.928	0.000	98	339251	50.0	51.1	
14 Trichlorofluoromethane	101	2.965	2.965	0.000	87	319861	50.0	48.8	
11 3-Chloro-1-propene	76	2.983	2.983	0.000	75	25467	50.0	45.4	
17 Ethyl ether	59	3.330	3.330	0.000	87	168052	50.0	52.9	
12 Acrolein	56	3.513	3.513	0.000	96	206911	300.0	328.6	
19 1,1-Dichloroethene	96	3.708	3.708	0.000	95	198082	50.0	50.3	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.757	3.757	0.000	85	221097	50.0	48.5	
16 Acetone	43	3.733	3.733	0.000	99	274955	250.0	219.5	
22 Iodomethane	142	3.903	3.903	0.000	96	419150	50.0	51.3	
26 Carbon disulfide	76	4.025	4.025	0.000	99	653590	50.0	51.4	
S 2 Xylenes, Total	100				0			108.1	
15 Isopropyl alcohol	45	4.031	4.031	0.000	48	86290	500.0	466.5	
13 Acetonitrile	40	4.196	4.196	0.000	99	88081	625.0	658.8	
24 Methyl acetate	43	4.300	4.300	0.000	95	260395	100.0	90.7	
23 Methylene Chloride	84	4.556	4.556	0.000	85	224096	50.0	49.6	
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	85580	200.0	200.0	
20 2-Methyl-2-propanol	59	4.812	4.812	0.000	98	206123	500.0	495.4	
21 Acrylonitrile	53	4.970	4.970	0.000	99	650779	500.0	554.6	
27 trans-1,2-Dichloroethene	96	5.068	5.068	0.000	66	274101	50.0	51.9	
28 Methyl tert-butyl ether	73	5.074	5.074	0.000	82	673465	50.0	53.5	
34 Hexane	57	5.647	5.647	0.000	88	356833	50.0	52.7	
30 1,1-Dichloroethane	63	5.897	5.897	0.000	97	409870	50.0	51.7	
31 Vinyl acetate	86	5.976	5.976	0.000	97	130831	125.0	128.3	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	75	377798	50.0	55.0	
35 Isopropyl ether	45	6.049	6.049	0.000	90	837949	62.5	68.4	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	95	426175	62.5	68.1	
43 2,2-Dichloropropane	77	6.909	6.909	0.000	69	291304	50.0	49.8	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	62	312871	50.0	52.8	
33 2-Butanone (MEK)	72	6.921	6.921	0.000	96	149640	250.0	264.8	
29 Propionitrile	54	7.007	7.007	0.000	86	341381	625.0	694.7	
38 Ethyl acetate	43	7.049	7.049	0.000	99	379176	100.0	111.5	
36 Methacrylonitrile	67	7.263	7.263	0.000	88	967833	500.0	553.7	
39 Chlorobromomethane	130	7.305	7.305	0.000	71	215863	50.0	52.2	
40 Chloroform	83	7.506	7.506	0.000	93	466713	50.0	52.3	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	95	419269	50.0	52.6	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.738	0.000	82	53261	10.0	10.1	
51 Cyclohexane	84	7.799	7.799	0.000	84	405507	50.0	53.1	
52 Carbon tetrachloride	117	7.927	7.927	0.000	79	405434	50.0	53.0	
50 1,1-Dichloropropene	75	7.945	7.945	0.000	94	369933	50.0	52.4	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	48733	10.0	10.1	
53 Benzene	78	8.195	8.195	0.000	95	1099329	50.0	51.8	
42 Isobutyl alcohol	43	8.201	8.201	0.000	46	200023	1250.0	1405.5	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	80	303797	50.0	50.8	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	95	878118	62.5	69.6	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	99	212387	10.0	10.0	
56 n-Heptane	43	8.634	8.634	0.000	85	347154	50.0	53.2	
45 Tetrahydrofuran	42	8.634	8.634	0.000	29	92043	100.0	107.7	
61 Trichloroethene	132	9.018	9.018	0.000	94	352466	50.0	50.6	
57 Ethyl acrylate	55	9.152	9.152	0.000	98	265793	50.0	57.7	
49 n-Butanol	56	9.262	9.262	0.000	42	106226	1250.0	1298.6	
66 Methylcyclohexane	83	9.268	9.268	0.000	84	518081	50.0	53.1	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	91	242068	50.0	52.4	a
59 Dibromomethane	174	9.384	9.384	0.000	83	238607	50.0	52.6	
63 Methyl methacrylate	69	9.396	9.396	0.000	82	347625	100.0	116.6	
62 Dichlorobromomethane	83	9.591	9.591	0.000	99	350479	50.0	52.6	
58 2-Nitropropane	43	9.805	9.805	0.000	99	132321	100.0	112.2	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	90	100831	50.0	49.4	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	93	421213	50.0	55.7	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	93	435664	250.0	267.6	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	91	217375	10.0	10.0	
74 Toluene	91	10.341	10.341	0.000	98	1274492	50.0	50.7	
70 n-Butyl acetate	43	10.475	10.475	0.000	90	26123	50.0	47.6	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	91	377359	50.0	55.6	
73 Ethyl methacrylate	69	10.622	10.622	0.000	81	303101	50.0	62.4	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	84	230793	50.0	50.0	
79 Tetrachloroethene	164	10.817	10.817	0.000	94	333652	50.0	50.4	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	87	369448	50.0	52.4	
76 2-Hexanone	58	10.933	10.933	0.000	70	436219	250.0	272.1	
77 Chlorodibromomethane	129	11.079	11.079	0.000	90	313713	50.0	55.4	
78 Ethylene Dibromide	107	11.170	11.170	0.000	98	244612	50.0	53.7	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	58	181604	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	98	876096	50.0	51.6	
80 1,1,1,2-Tetrachloroethane	131	11.682	11.682	0.000	40	328404	50.0	53.9	
83 Ethylbenzene	91	11.682	11.682	0.000	97	1421734	50.0	52.5	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	1078411	50.0	53.5	
88 o-Xylene	91	12.115	12.115	0.000	95	1082927	50.0	54.6	
86 Styrene	104	12.127	12.127	0.000	94	918824	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
85 Bromoform	173	12.286	12.286	0.000	99	236945	50.0	55.5	
91 Isopropylbenzene	105	12.414	12.414	0.000	94	1446729	50.0	54.2	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	95	88568	10.0	10.2	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	96	277629	50.0	52.4	
93 Bromobenzene	156	12.682	12.682	0.000	82	426192	50.0	51.9	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	58	73423	50.0	51.7	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	46	94349	50.0	48.9	
94 N-Propylbenzene	91	12.749	12.749	0.000	88	1646610	50.0	53.5	
95 2-Chlorotoluene	126	12.829	12.829	0.000	98	369250	50.0	51.4	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	94	1182143	50.0	54.1	
96 4-Chlorotoluene	126	12.926	12.926	0.000	78	384729	50.0	52.7	
98 tert-Butylbenzene	119	13.152	13.152	0.000	88	1092621	50.0	53.3	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	46	1200006	50.0	50.0	
100 sec-Butylbenzene	105	13.322	13.322	0.000	92	1579786	50.0	53.3	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	97	783771	50.0	51.2	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	96	1401402	50.0	53.0	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	49	104089	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	98	772698	50.0	50.2	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	97	1173347	50.0	53.2	
101 Benzyl chloride	126	13.597	13.597	0.000	97	133738	50.0	55.7	
108 n-Butylbenzene	134	13.761	13.761	0.000	97	376548	50.0	53.1	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	97	719702	50.0	50.6	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.401	0.000	93	68732	50.0	50.5	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	94	628941	50.0	50.1	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	89	506596	50.0	49.4	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	91	358612	50.0	48.8	
112 Naphthalene	128	15.249	15.249	0.000	96	884636	50.0	52.1	
114 1,2,3-Trichlorobenzene	180	15.419	15.419	0.000	94	456560	50.0	50.1	

### QC Flag Legend

Review Flags

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 5.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_009.D

Injection Date: 14-Jul-2020 18:21:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 9

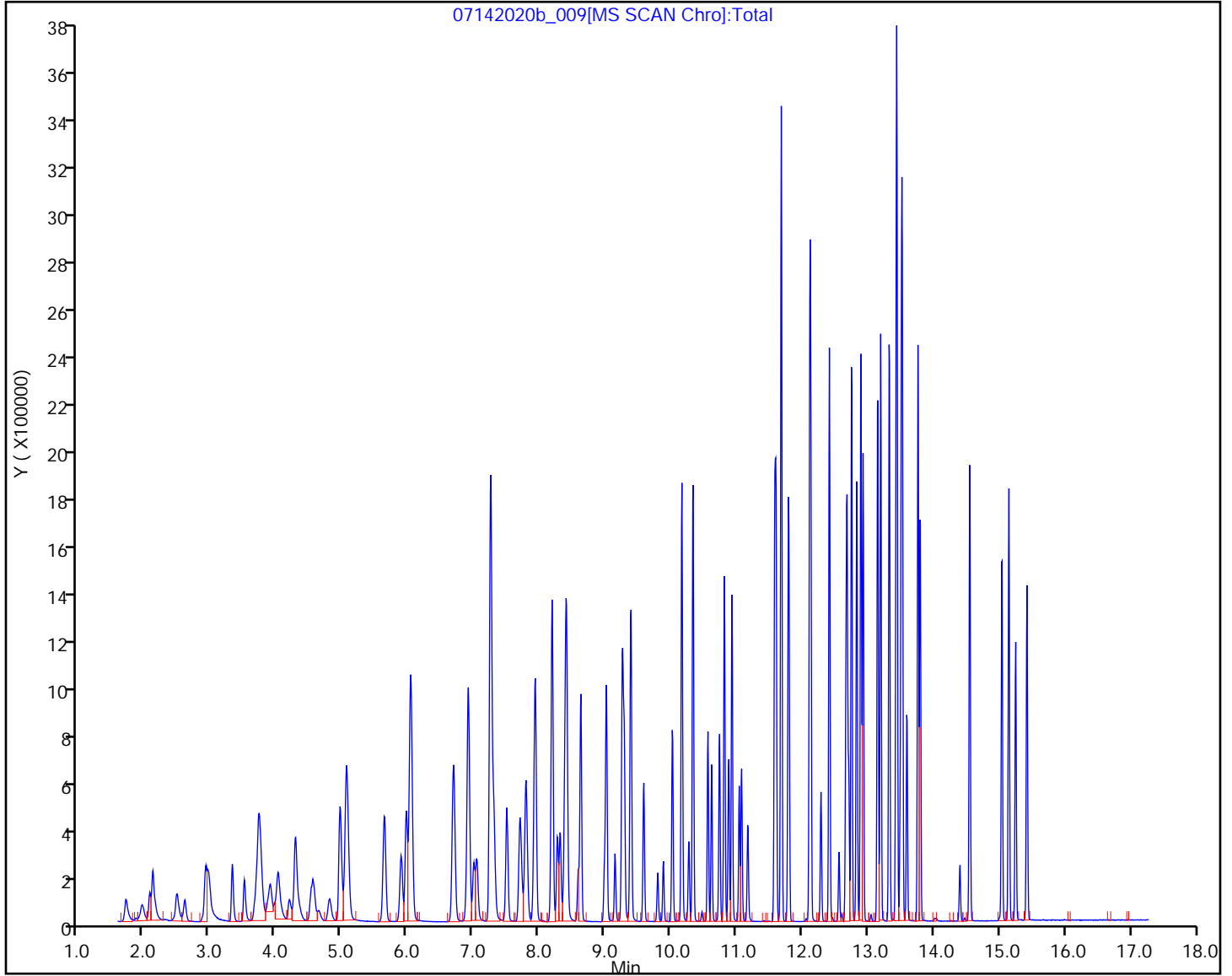
Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

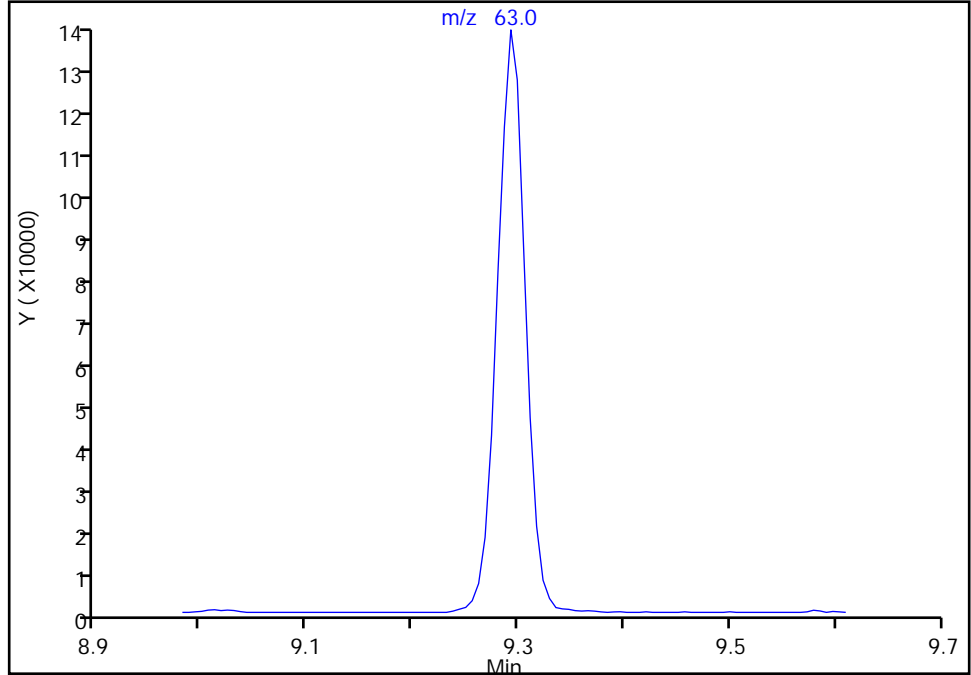
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_009.D  
Injection Date: 14-Jul-2020 18:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 9 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

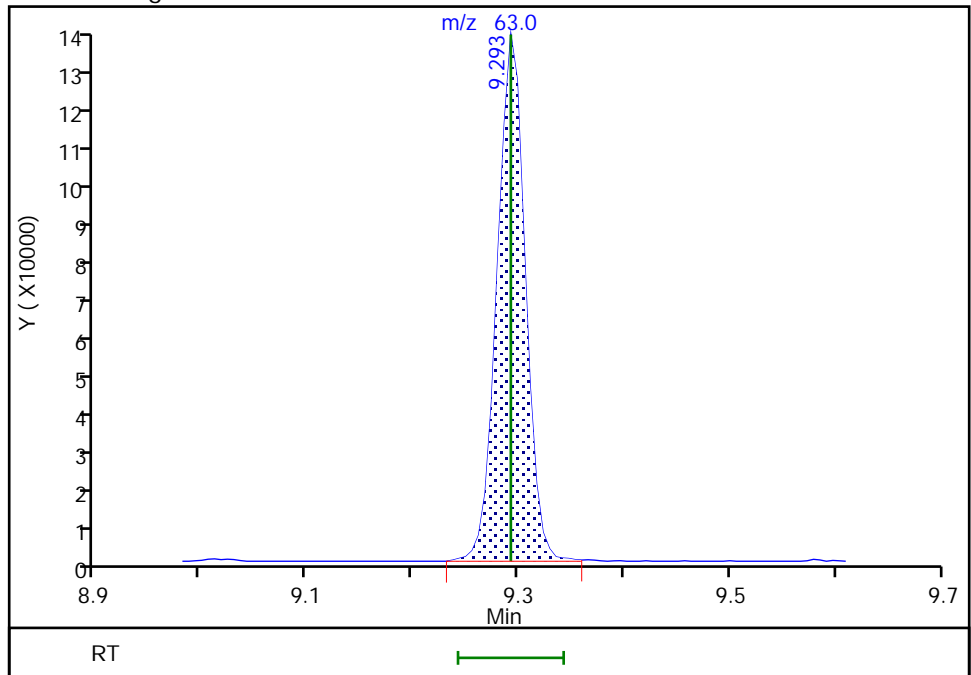
Not Detected  
Expected RT: 9.29

Processing Integration Results



RT: 9.29  
Area: 242068  
Amount: 52.445719  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Jul-2020 15:42:33  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_010.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 14-Jul-2020 18:47:30 ALS Bottle#: 10 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 10  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3

Method: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Jul-2020 10:16:10 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1065

First Level Reviewer: limwirojt

Date: 15-Jul-2020 15:44:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.721	1.721	0.000	88	236227	100.0	86.8	M
4 Chloromethane	50	1.959	1.959	0.000	92	334822	100.0	82.0	
5 Vinyl chloride	62	2.075	2.075	0.000	79	391061	100.0	91.3	
6 Butadiene	54	2.123	2.123	0.000	88	323627	100.0	101.4	
7 Bromomethane	94	2.489	2.489	0.000	89	321468	100.0	88.5	
8 Chloroethane	66	2.599	2.599	0.000	95	75983	100.0	105.3	
10 Dichlorofluoromethane	67	2.928	2.928	0.000	98	636524	100.0	86.0	
14 Trichlorofluoromethane	101	2.959	2.959	0.000	97	616948	100.0	84.5	
11 3-Chloro-1-propene	76	2.983	2.983	0.000	77	51441	100.0	102.8	
17 Ethyl ether	59	3.331	3.331	0.000	87	318572	100.0	90.0	
12 Acrolein	56	3.513	3.513	0.000	95	392683	600.0	558.8	
19 1,1-Dichloroethene	96	3.709	3.709	0.000	95	383322	100.0	87.4	
16 Acetone	43	3.733	3.733	0.000	99	536437	500.0	384.4	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.757	3.757	0.000	79	434365	100.0	85.5	
22 Iodomethane	142	3.910	3.910	0.000	95	799171	100.0	87.9	
26 Carbon disulfide	76	4.026	4.026	0.000	99	1261593	100.0	89.0	
15 Isopropyl alcohol	45	4.038	4.038	0.000	60	196189	1000.0	885.4	
S 2 Xylenes, Total	100				0			181.9	
13 Acetonitrile	40	4.196	4.196	0.000	98	180794	1250.0	1205.3	
24 Methyl acetate	43	4.300	4.300	0.000	95	490524	200.0	153.3	
23 Methylene Chloride	84	4.562	4.562	0.000	79	421529	100.0	98.8	
* 18 TBA-d9 (IS)	65	4.641	4.641	0.000	0	102528	200.0	200.0	
20 2-Methyl-2-propanol	59	4.812	4.812	0.000	99	444955	1000.0	959.8	
21 Acrylonitrile	53	4.970	4.970	0.000	98	1247186	1000.0	953.9	
27 trans-1,2-Dichloroethene	96	5.068	5.068	0.000	64	511338	100.0	86.9	
28 Methyl tert-butyl ether	73	5.074	5.074	0.000	82	1280217	100.0	91.2	
34 Hexane	57	5.647	5.647	0.000	90	675839	100.0	89.7	
30 1,1-Dichloroethane	63	5.903	5.903	0.000	85	759631	100.0	86.0	
31 Vinyl acetate	86	5.976	5.976	0.000	97	245564	250.0	247.4	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	76	722158	100.0	94.3	
35 Isopropyl ether	45	6.050	6.050	0.000	90	1577288	125.0	115.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	96	805179	125.0	115.6	
43 2,2-Dichloropropane	77	6.909	6.909	0.000	68	540007	100.0	82.9	a
33 2-Butanone (MEK)	72	6.927	6.921	0.006	97	283655	500.0	450.5	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	76	580459	100.0	87.9	
29 Propionitrile	54	7.007	7.007	0.000	82	643441	1250.0	1175.3	
38 Ethyl acetate	43	7.049	7.049	0.000	99	708272	200.0	186.9	
36 Methacrylonitrile	67	7.263	7.263	0.000	88	1824185	1000.0	936.7	
39 Chlorobromomethane	130	7.305	7.305	0.000	75	413272	100.0	89.7	
40 Chloroform	83	7.513	7.513	0.000	94	877599	100.0	88.3	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	95	793964	100.0	89.4	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.738	0.000	50	59549	10.0	10.2	
51 Cyclohexane	84	7.799	7.799	0.000	83	771175	100.0	90.6	
52 Carbon tetrachloride	117	7.927	7.927	0.000	92	764186	100.0	89.7	
50 1,1-Dichloropropene	75	7.945	7.945	0.000	94	696497	100.0	88.6	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	53365	10.0	9.91	
53 Benzene	78	8.195	8.195	0.000	95	2046398	100.0	86.5	
42 Isobutyl alcohol	43	8.202	8.202	0.000	49	433238	2500.0	2541.0	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	79	572151	100.0	85.9	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	95	1688835	125.0	120.2	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	99	236623	10.0	10.0	
56 n-Heptane	43	8.634	8.634	0.000	85	655701	100.0	90.2	
45 Tetrahydrofuran	42	8.634	8.634	0.000	28	171108	200.0	179.7	
61 Trichloroethene	132	9.025	9.025	0.000	93	676093	100.0	87.1	
57 Ethyl acrylate	55	9.153	9.153	0.000	98	519577	100.0	101.2	
49 n-Butanol	56	9.262	9.262	0.000	42	203151	2500.0	2229.1	
66 Methylcyclohexane	83	9.268	9.268	0.000	85	986270	100.0	90.8	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	90	456003	100.0	88.7	a
59 Dibromomethane	174	9.390	9.390	0.000	67	444922	100.0	88.0	
63 Methyl methacrylate	69	9.396	9.396	0.000	82	667287	200.0	200.9	
62 Dichlorobromomethane	83	9.592	9.592	0.000	99	675198	100.0	91.0	
58 2-Nitropropane	43	9.805	9.805	0.000	99	258651	200.0	196.8	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	91	213328	100.0	94.8	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	93	797389	100.0	95.7	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	94	821549	500.0	458.4	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	91	233427	10.0	9.79	
74 Toluene	91	10.341	10.341	0.000	98	2353231	100.0	85.0	
70 n-Butyl acetate	43	10.475	10.475	0.000	91	49250	100.0	81.4	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	88	711101	100.0	95.3	
73 Ethyl methacrylate	69	10.622	10.622	0.000	67	575524	100.0	107.6	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	88	439107	100.0	86.4	
79 Tetrachloroethene	164	10.817	10.817	0.000	94	632039	100.0	88.7	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	86	693267	100.0	89.3	
76 2-Hexanone	58	10.933	10.933	0.000	77	836901	500.0	474.3	
77 Chlorodibromomethane	129	11.079	11.079	0.000	89	589566	100.0	94.6	
78 Ethylene Dibromide	107	11.170	11.170	0.000	99	453704	100.0	90.4	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	47	199890	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	98	1618274	100.0	86.5	
80 1,1,1,2-Tetrachloroethane	131	11.683	11.683	0.000	41	612314	100.0	91.4	
83 Ethylbenzene	91	11.683	11.683	0.000	97	2603520	100.0	87.3	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	2001355	100.0	90.2	
88 o-Xylene	91	12.115	12.115	0.000	95	2002903	100.0	91.8	
86 Styrene	104	12.134	12.134	0.000	94	1706979	100.0	94.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	99	446479	100.0	95.1	
91 Isopropylbenzene	105	12.414	12.414	0.000	95	2633865	100.0	89.7	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	95	96824	10.0	10.1	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	97	514764	100.0	90.1	
93 Bromobenzene	156	12.682	12.682	0.000	82	785004	100.0	88.8	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	55	142255	100.0	92.9	
90 1,2,3-Trichloropropane	110	12.713	12.713	0.000	42	177194	100.0	85.3	
94 N-Propylbenzene	91	12.749	12.749	0.000	87	2961810	100.0	89.3	
95 2-Chlorotoluene	126	12.835	12.835	0.000	99	678144	100.0	87.7	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	94	2151879	100.0	91.3	
96 4-Chlorotoluene	126	12.926	12.926	0.000	92	703624	100.0	89.5	
98 tert-Butylbenzene	119	13.152	13.152	0.000	90	2014548	100.0	91.2	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	69	2170237	100.0	99.7	
100 sec-Butylbenzene	105	13.329	13.329	0.000	92	2835104	100.0	88.7	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	97	1437992	100.0	87.2	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	95	2550144	100.0	89.5	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	33	112158	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	97	1410348	100.0	85.0	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	97	2136437	100.0	89.9	
101 Benzyl chloride	126	13.597	13.597	0.000	97	258161	100.0	99.8	
108 n-Butylbenzene	134	13.761	13.761	0.000	96	696029	100.0	91.1	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	98	1327412	100.0	86.7	
109 1,2-Dibromo-3-Chloropropane	157	14.402	14.402	0.000	94	136903	100.0	93.4	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	96	1152393	100.0	85.1	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	93	970347	100.0	87.8	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	92	672784	100.0	84.9	
112 Naphthalene	128	15.249	15.249	0.000	96	1779166	100.0	97.3	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	94	897590	100.0	91.4	

### QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 10.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_010.D

Injection Date: 14-Jul-2020 18:47:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 10

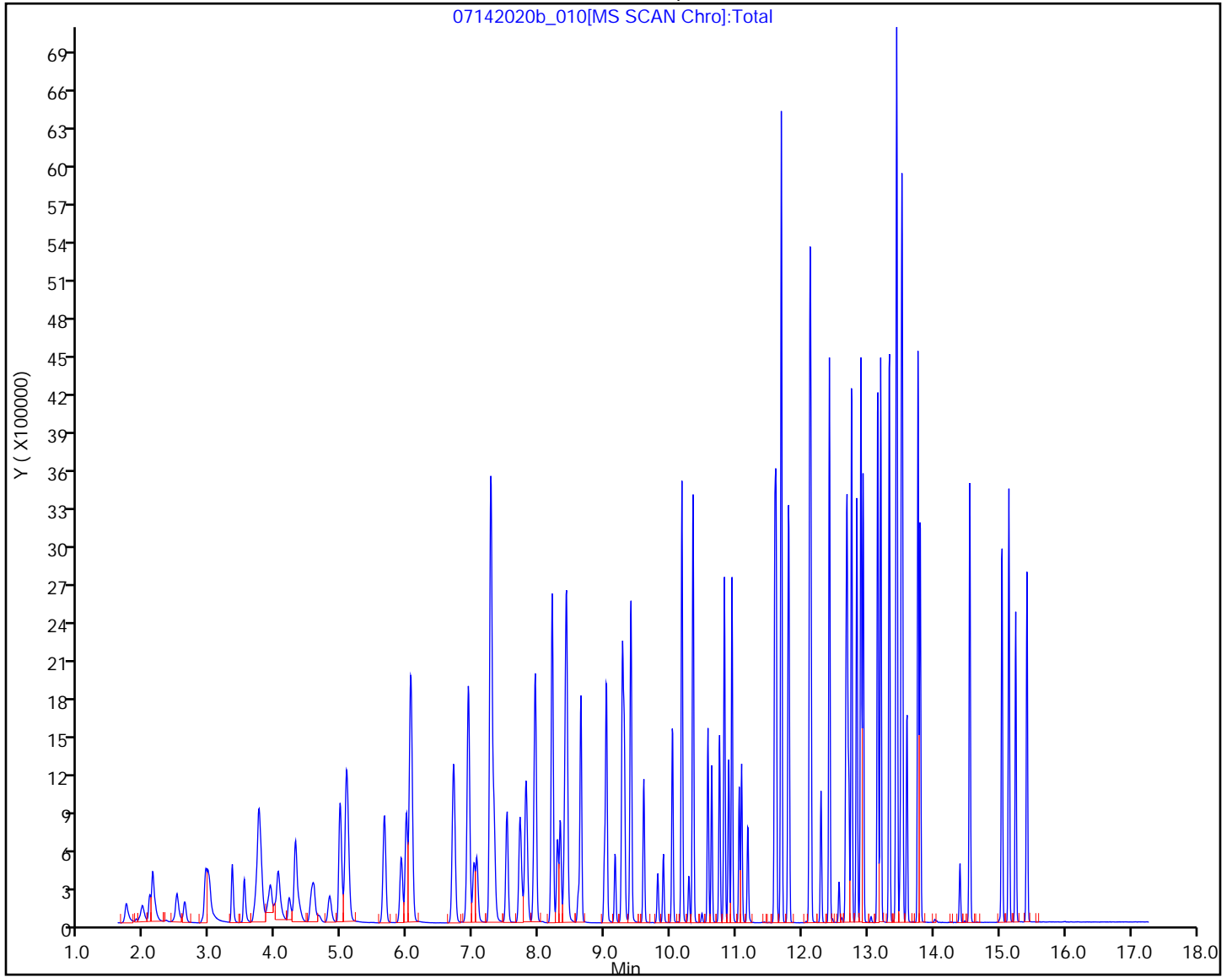
Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C





Eurofins TestAmerica, Seattle

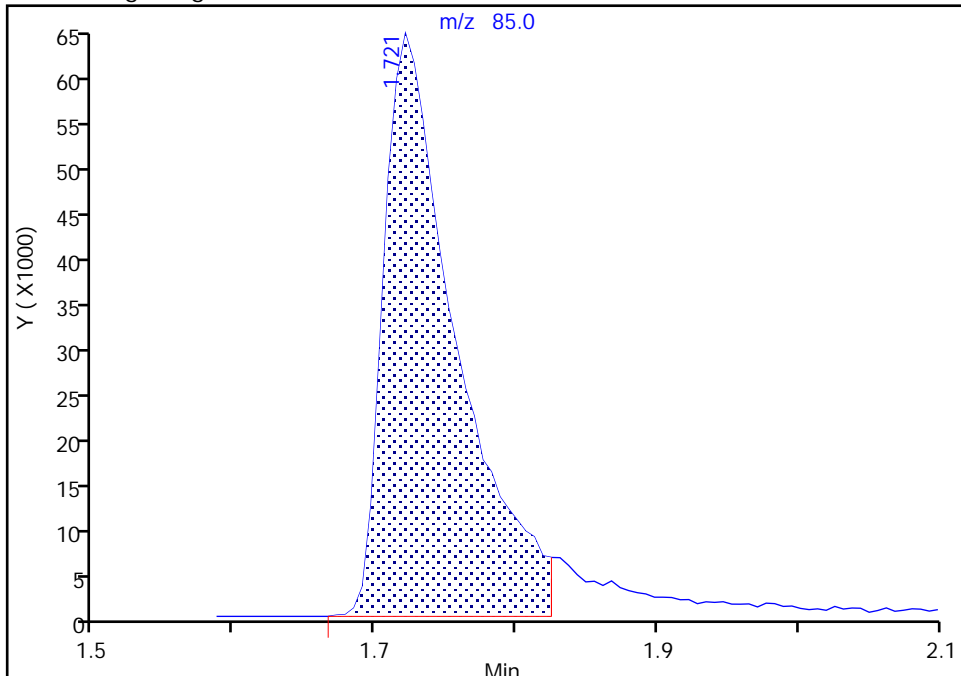
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Injection Date: 14-Jul-2020 18:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 10 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

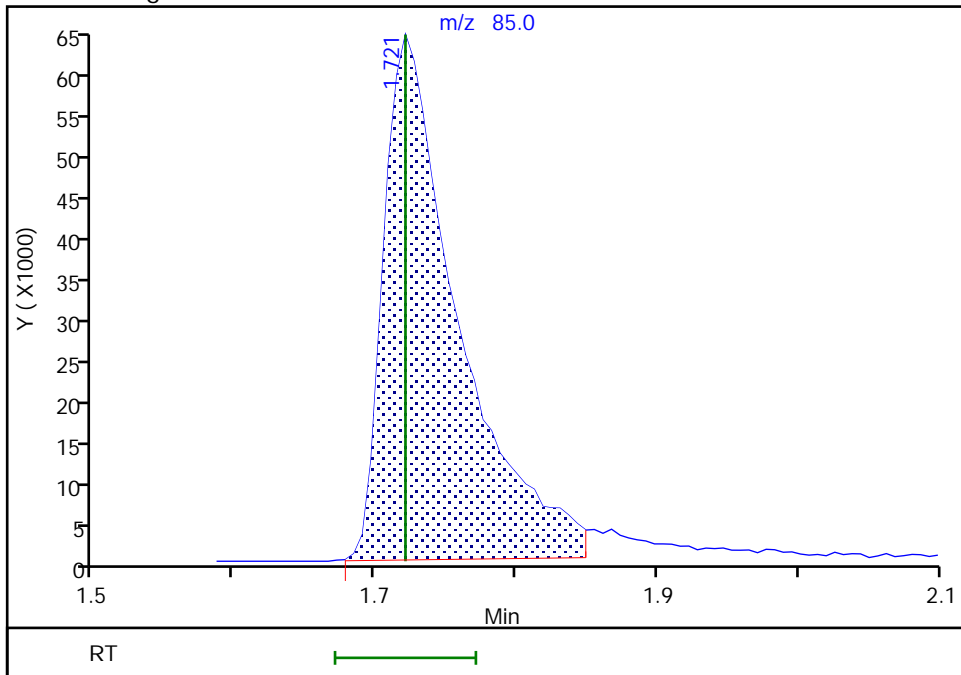
RT: 1.72  
Area: 231415  
Amount: 90.349933  
Amount Units: ug/L

Processing Integration Results



RT: 1.72  
Area: 236227  
Amount: 86.799099  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 08:55:43  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

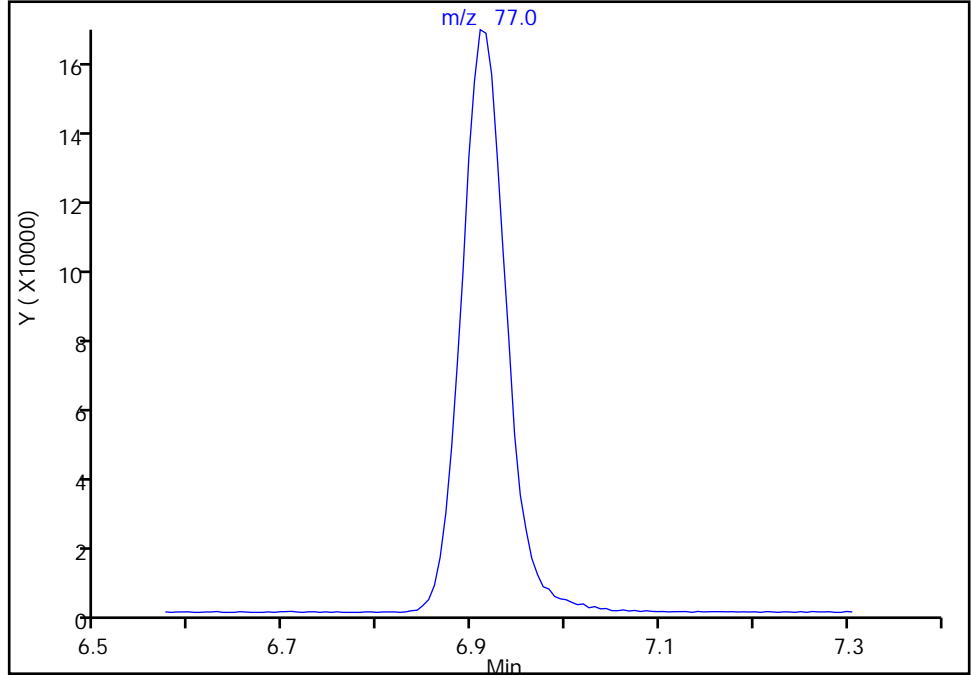
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Injection Date: 14-Jul-2020 18:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 10 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

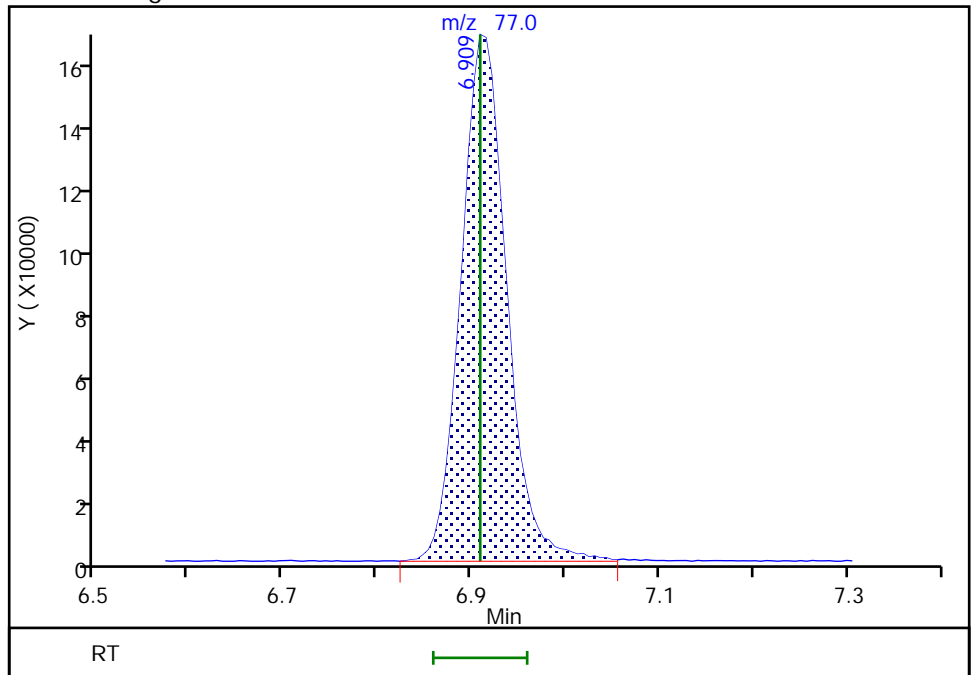
Not Detected  
Expected RT: 6.91

Processing Integration Results



Manual Integration Results

RT: 6.91  
Area: 540007  
Amount: 82.932357  
Amount Units: ug/L



Eurofins TestAmerica, Seattle

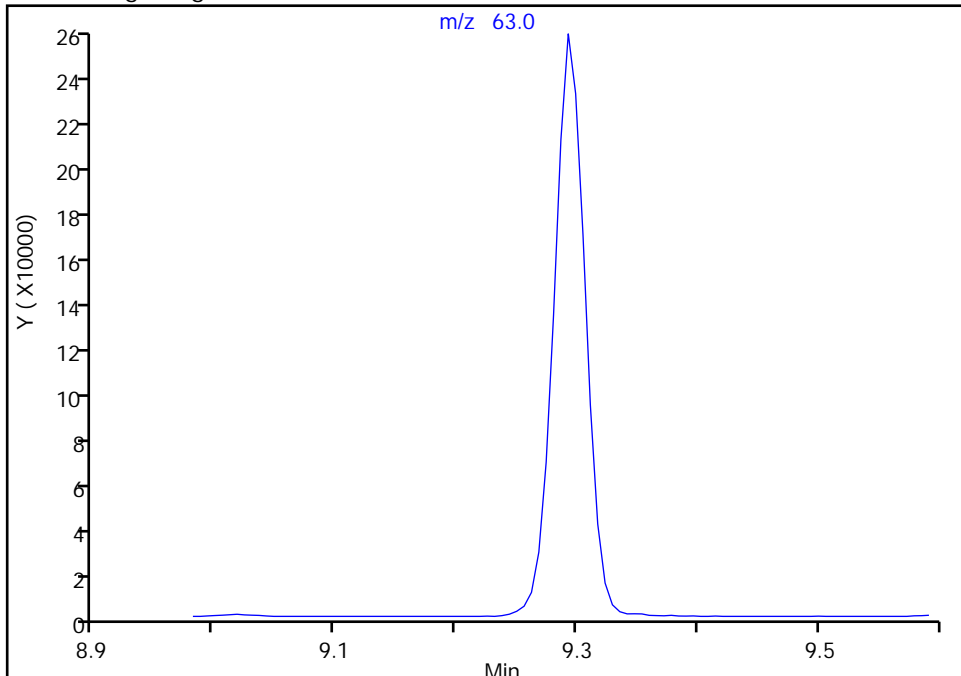
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Injection Date: 14-Jul-2020 18:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 10 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

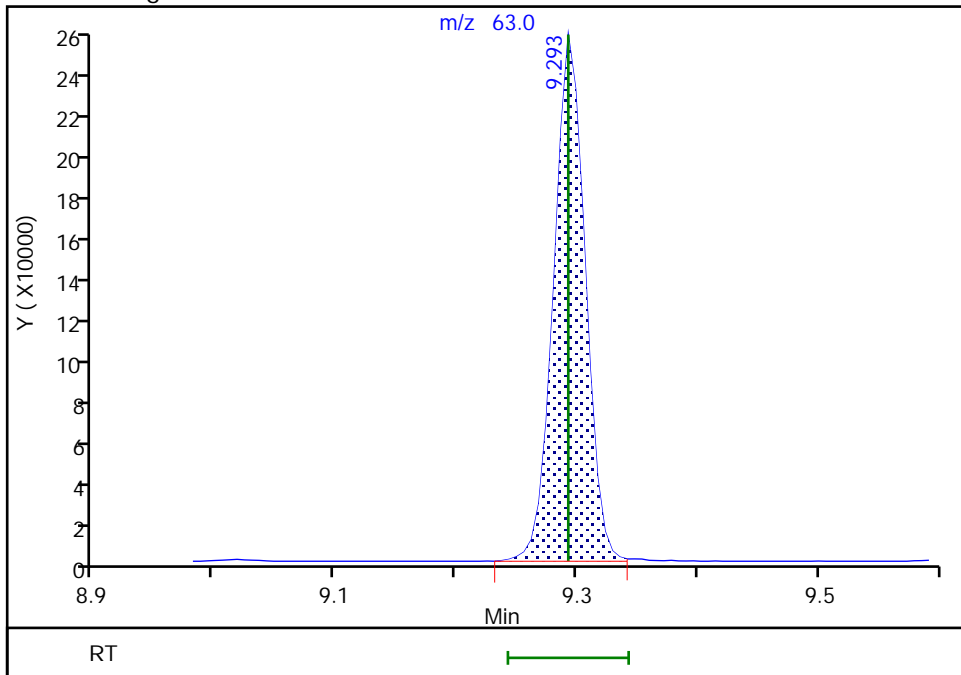
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 456003  
Amount: 88.677070  
Amount Units: ug/L



Reviewer: limwirojt, 15-Jul-2020 15:44:13  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 580-332974/13 Calibration Date: 07/14/2020 20:07

Instrument ID: TAC119 Calib Start Date: 07/14/2020 15:42

GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 07/14/2020 18:47

Lab File ID: 07142020b\_013.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	0.1150	0.1371	0.1000	23.8	20.0	19.2	30.0
Chloromethane	Ave	0.1725	0.2010	0.1000	23.3	20.0	16.5	30.0
Vinyl chloride	Ave	0.1809	0.2107	0.1000	23.3	20.0	16.4	30.0
Butadiene	Ave	0.1349	0.1599		23.7	20.0	18.6	30.0
Bromomethane	Ave	0.1535	0.1629	0.1000	21.2	20.0	6.1	30.0
Chloroethane	Qual		0.0834	0.0600	16.8	20.0	-15.9	30.0
Dichlorofluoromethane	Ave	0.3127	0.3211		20.5	20.0	2.7	30.0
Trichlorofluoromethane	Ave	0.3086	0.2997	0.1000	19.4	20.0	-2.9	30.0
3-Chloro-1-propene	Qual		0.0319			20.0	-3.2	30.0
Ethyl ether	Ave	0.1497	0.1520		20.3	20.0	1.6	30.0
Acrolein	Lin1		0.0293		120	120	-0.4	30.0
1,1-Dichloroethene	Ave	0.1853	0.1962	0.1000	21.2	20.0	5.9	30.0
Acetone	Ave	0.0590	0.0629	0.0200		100	6.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2146	0.2085	0.1000	19.4	20.0	-2.9	30.0
Iodomethane	Ave	0.3844	0.3798		19.8	20.0	-1.2	30.0
Carbon disulfide	Ave	0.5990	0.6187	0.1000	20.7	20.0	3.3	30.0
Isopropyl alcohol	Ave	0.4323	0.4476			200	3.5	30.0
Acetonitrile	Lin1		0.0068		274	250	9.6	30.0
Methyl acetate	Ave	0.1352	0.1159	0.1000	34.3	40.0	-14.3	30.0
Methylene Chloride	Qua2		0.2078	0.1000		20.0	-11.8	30.0
2-Methyl-2-propanol	Ave	0.0196	0.0222			200	13.1	30.0
Acrylonitrile	Ave	0.0553	0.0544		197	200	-1.5	30.0
trans-1,2-Dichloroethene	Ave	0.2487	0.2383	0.1000	19.2	20.0	-4.2	30.0
Methyl tert-butyl ether	Ave	0.5932	0.5833	0.1000	19.7	20.0	-1.7	30.0
Hexane	Ave	0.3186	0.3267		20.5	20.0	2.6	30.0
1,1-Dichloroethane	Ave	0.3732	0.3546	0.2000	19.0	20.0	-5.0	30.0
Vinyl acetate	Qual		0.0409		40.7	50.0	-18.6	30.0
2-Chloro-1,3-butadiene	Ave	0.3236	0.3182		19.7	20.0	-1.7	30.0
Isopropyl ether	Ave	0.5771	0.5621		24.3	25.0	-2.6	30.0
Tert-butyl ethyl ether	Ave	0.2945	0.2811		23.9	25.0	-4.5	30.0
2,2-Dichloropropane	Ave	0.2752	0.2527		18.4	20.0	-8.2	30.0
2-Butanone (MEK)	Ave	0.0266	0.0278	0.0200	105	100	4.6	30.0
cis-1,2-Dichloroethene	Ave	0.2792	0.2801	0.1000	20.1	20.0	0.3	30.0
Propionitrile	Ave	0.0231	0.0235		254	250	1.6	30.0
Ethyl acetate	Ave	0.1601	0.1561		39.0	40.0	-2.5	30.0
Methacrylonitrile	Ave	0.0823	0.0807		196	200	-2.0	30.0
Chlorobromomethane	Ave	0.1948	0.1846		19.0	20.0	-5.2	30.0
Chloroform	Ave	0.4199	0.4077	0.2000	19.4	20.0	-2.9	30.0
1,1,1-Trichloroethane	Ave	0.3754	0.3721	0.1000	19.8	20.0	-0.9	30.0
Cyclohexane	Ave	0.3598	0.3471	0.1000	19.3	20.0	-3.5	30.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 580-332974/13 Calibration Date: 07/14/2020 20:07

Instrument ID: TAC119 Calib Start Date: 07/14/2020 15:42

GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 07/14/2020 18:47

Lab File ID: 07142020b\_013.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
Carbon tetrachloride	Ave	0.3600	0.3566	0.1000	19.8	20.0	-0.9	30.0
1,1-Dichloropropene	Ave	0.3322	0.3147		18.9	20.0	-5.3	30.0
Benzene	Ave	1.000	0.9621	0.5000	19.2	20.0	-3.8	30.0
Isobutyl alcohol	Ave	0.3326	0.3706		557	500	11.4	30.0
1,2-Dichloroethane	Ave	0.2816	0.2628	0.1000	18.7	20.0	-6.7	30.0
Tert-amyl methyl ether	Ave	0.5940	0.6197		26.1	25.0	4.3	30.0
n-Heptane	Ave	0.3071	0.2999		19.5	20.0	-2.3	30.0
Tetrahydrofuran	Ave	0.0402	0.0406			40.0	0.8	30.0
Trichloroethene	Ave	0.3280	0.3054	0.2000	18.6	20.0	-6.9	30.0
Ethyl acrylate	Ave	0.2169	0.2184		20.1	20.0	0.7	30.0
n-Butanol	Ave	0.0039	0.0036			500	-7.5	30.0
Methylcyclohexane	Ave	0.4591	0.4469	0.1000	19.5	20.0	-2.7	30.0
Dibromomethane	Ave	0.2136	0.2038		19.1	20.0	-4.6	30.0
Methyl methacrylate	Ave	0.1404	0.1434			40.0	2.1	30.0
Dichlorobromomethane	Ave	0.3135	0.3069	0.2000	19.6	20.0	-2.1	30.0
2-Nitropropane	Ave	0.0555	0.0527		37.9	40.0	-5.2	30.0
2-Chloroethyl vinyl ether	Lin1		0.0938		16.8	20.0	-15.8	30.0
cis-1,3-Dichloropropene	Ave	0.4167	0.4120	0.2000	19.8	20.0	-1.1	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0897	0.0874	0.0600	97.4	100	-2.6	30.0
Toluene	Ave	1.385	1.307	0.4000	18.9	20.0	-5.6	30.0
n-Butyl acetate	Ave	0.0303	0.0300			20.0	-1.0	30.0
trans-1,3-Dichloropropene	Ave	0.3734	0.3395	0.1000	18.2	20.0	-9.1	30.0
Ethyl methacrylate	Ave	0.2677	0.2795		20.9	20.0	4.4	30.0
1,1,2-Trichloroethane	Ave	0.2543	0.2394	0.1000	18.8	20.0	-5.9	30.0
Tetrachloroethene	Ave	0.6354	0.5884	0.2000	18.5	20.0	-7.4	30.0
1,3-Dichloropropane	Ave	0.3883	0.3773		19.4	20.0	-2.8	30.0
2-Hexanone	Ave	0.0883	0.0937	0.0600	106	100	6.2	30.0
Chlorodibromomethane	Ave	0.3119	0.3139	0.1000	20.1	20.0	0.6	30.0
Ethylene Dibromide	Ave	0.2510	0.2434	0.1000	19.4	20.0	-3.0	30.0
Chlorobenzene	Ave	0.9356	0.9010	0.5000	19.3	20.0	-3.7	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3352	0.3272		19.5	20.0	-2.4	30.0
Ethylbenzene	Ave	1.492	1.425	0.1000	19.1	20.0	-4.5	30.0
m-Xylene & p-Xylene	Ave	1.111	1.067	0.1000	19.2	20.0	-4.0	30.0
o-Xylene	Ave	1.092	1.084	0.3000	19.9	20.0	-0.7	30.0
Styrene	Ave	0.9078	0.9091	0.3000	20.0	20.0	0.1	30.0
Bromoform	Ave	0.2350	0.2319	0.1000	19.7	20.0	-1.3	30.0
Isopropylbenzene	Ave	1.469	1.465	0.1000	19.9	20.0	-0.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5092	0.4850	0.3000	19.1	20.0	-4.7	30.0
Bromobenzene	Ave	0.7885	0.7416		18.8	20.0	-6.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1365	0.1281			20.0	-6.2	30.0
1,2,3-Trichloropropane	Ave	0.1853	0.1712		18.5	20.0	-7.6	30.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-332974/13 Calibration Date: 07/14/2020 20:07  
 Instrument ID: TAC119 Calib Start Date: 07/14/2020 15:42  
 GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 07/14/2020 18:47  
 Lab File ID: 07142020b\_013.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
N-Propylbenzene	Ave	2.957	2.862		19.4	20.0	-3.2	30.0
2-Chlorotoluene	Ave	0.6898	0.6485		18.8	20.0	-6.0	30.0
1,3,5-Trimethylbenzene	Ave	2.101	2.099		20.0	20.0	-0.1	30.0
4-Chlorotoluene	Ave	0.7012	0.6673		19.0	20.0	-4.8	30.0
tert-Butylbenzene	Ave	1.970	1.919		19.5	20.0	-2.6	30.0
1,2,4-Trimethylbenzene	Qual		2.059		16.4	20.0	-17.9	30.0
sec-Butylbenzene	Ave	2.849	2.801		19.7	20.0	-1.7	30.0
1,3-Dichlorobenzene	Ave	1.471	1.345	0.6000	18.3	20.0	-8.6	30.0
4-Isopropyltoluene	Ave	2.539	2.477		19.5	20.0	-2.4	30.0
1,4-Dichlorobenzene	Ave	1.480	1.371	0.5000	18.5	20.0	-7.4	30.0
1,2,3-Trimethylbenzene	Ave	2.119	2.124		20.0	20.0	0.2	30.0
Benzyl chloride	Ave	0.2306	0.2300		19.9	20.0	-0.3	30.0
n-Butylbenzene	Ave	0.6810	0.6479		19.0	20.0	-4.8	30.0
1,2-Dichlorobenzene	Ave	1.365	1.248	0.4000	18.3	20.0	-8.6	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1308	0.1328	0.0500	20.3	20.0	1.6	30.0
1,3,5-Trichlorobenzene	Ave	1.207	1.093		18.1	20.0	-9.5	30.0
1,2,4-Trichlorobenzene	Ave	0.9857	0.9497	0.2000	19.3	20.0	-3.7	30.0
Hexachlorobutadiene	Ave	0.7067	0.6716		19.0	20.0	-5.0	30.0
Naphthalene	Ave	1.631	1.841		22.6	20.0	12.9	30.0
1,2,3-Trichlorobenzene	Ave	0.8759	0.9178		21.0	20.0	4.8	30.0
1,2-Dichloropropane	Ave	0.2173				20.0		
Dibromofluoromethane (Surr)	Ave	0.2471	0.2453		9.93	10.0	-0.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2276	0.2265		9.95	10.0	-0.5	30.0
Toluene-d8 (Surr)	Ave	1.192	1.200		10.1	10.0	0.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4781	0.4906		10.3	10.0	2.6	30.0

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_013.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 14-Jul-2020 20:07:30 ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: icv  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist:

Method: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Jul-2020 09:57:56 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1065

First Level Reviewer: bohnc Date: 15-Jul-2020 09:55:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.721	1.721	0.000	59	60913	20.0	23.8	M
4 Chloromethane	50	1.965	1.959	0.006	92	89309	20.0	23.3	M
5 Vinyl chloride	62	2.081	2.075	0.006	98	93610	20.0	23.3	M
6 Butadiene	54	2.123	2.123	0.000	86	71068	20.0	23.7	
7 Bromomethane	94	2.489	2.489	0.000	89	72370	20.0	21.2	
8 Chloroethane	66	2.611	2.599	0.012	95	17970	20.0	16.8	
10 Dichlorofluoromethane	67	2.928	2.928	0.000	98	142700	20.0	20.5	
14 Trichlorofluoromethane	101	2.977	2.959	0.018	84	133194	20.0	19.4	M
11 3-Chloro-1-propene	76	2.989	2.983	0.006	69	11950	20.0	19.4	
17 Ethyl ether	59	3.337	3.331	0.006	87	67546	20.0	20.3	
12 Acrolein	56	3.519	3.513	0.006	91	78130	120.0	119.5	
19 1,1-Dichloroethene	96	3.708	3.709	0.000	96	87185	20.0	21.2	
16 Acetone	43	3.745	3.733	0.012	99	139712	100.0	106.6	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.763	3.757	0.006	81	92656	20.0	19.4	
22 Iodomethane	142	3.916	3.910	0.006	95	168752	20.0	19.8	
26 Carbon disulfide	76	4.032	4.026	0.006	99	274937	20.0	20.7	
15 Isopropyl alcohol	45	4.044	4.038	0.006	67	45870	200.0	207.1	
13 Acetonitrile	40	4.208	4.196	0.012	99	37506	250.0	274.1	
24 Methyl acetate	43	4.306	4.300	0.006	96	102978	40.0	34.3	
23 Methylene Chloride	84	4.562	4.562	0.000	83	92337	20.0	17.6	a
* 18 TBA-d9 (IS)	65	4.647	4.641	0.006	0	102487	200.0	200.0	
20 2-Methyl-2-propanol	59	4.812	4.812	0.000	99	98458	200.0	226.2	M
21 Acrylonitrile	53	4.976	4.970	0.006	100	241788	200.0	196.9	
27 trans-1,2-Dichloroethene	96	5.068	5.068	0.000	69	105910	20.0	19.2	
28 Methyl tert-butyl ether	73	5.080	5.074	0.006	83	259218	20.0	19.7	
34 Hexane	57	5.647	5.647	0.000	88	145192	20.0	20.5	
30 1,1-Dichloroethane	63	5.903	5.903	0.000	85	157577	20.0	19.0	
31 Vinyl acetate	86	5.982	5.976	0.006	97	45433	50.0	40.7	M
32 2-Chloro-1,3-butadiene	53	6.043	6.037	0.006	70	141415	20.0	19.7	
35 Isopropyl ether	45	6.056	6.050	0.006	90	312224	25.0	24.3	
41 Tert-butyl ethyl ether	87	6.702	6.696	0.006	95	156126	25.0	23.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.915	6.909	0.006	65	112308	20.0	18.4	
33 2-Butanone (MEK)	72	6.927	6.921	0.006	96	61810	100.0	104.6	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	62	124484	20.0	20.1	
29 Propionitrile	54	7.013	7.007	0.006	87	130598	250.0	254.0	
38 Ethyl acetate	43	7.055	7.049	0.006	97	138763	40.0	39.0	
36 Methacrylonitrile	67	7.263	7.263	0.000	89	358412	200.0	196.0	
39 Chlorobromomethane	130	7.305	7.305	0.000	70	82021	20.0	19.0	
40 Chloroform	83	7.513	7.513	0.000	80	181188	20.0	19.4	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	94	165334	20.0	19.8	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.738	0.000	82	54498	10.0	9.93	
51 Cyclohexane	84	7.799	7.799	0.000	84	154247	20.0	19.3	
52 Carbon tetrachloride	117	7.927	7.927	0.000	81	158466	20.0	19.8	
50 1,1-Dichloropropene	75	7.945	7.945	0.000	94	139828	20.0	18.9	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	50330	10.0	9.95	
53 Benzene	78	8.195	8.195	0.000	96	427544	20.0	19.2	
42 Isobutyl alcohol	43	8.201	8.202	-0.001	48	94951	500.0	557.1	
47 1,2-Dichloroethane	62	8.281	8.275	0.006	88	116784	20.0	18.7	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	94	344251	25.0	26.1	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	99	222190	10.0	10.0	
56 n-Heptane	43	8.634	8.634	0.000	84	133284	20.0	19.5	
45 Tetrahydrofuran	42	8.634	8.634	0.000	27	36054	40.0	40.3	
61 Trichloroethene	132	9.024	9.025	-0.001	92	135709	20.0	18.6	
57 Ethyl acrylate	55	9.153	9.153	-0.001	98	97035	20.0	20.1	
49 n-Butanol	56	9.262	9.262	0.000	40	39574	500.0	462.4	
66 Methylcyclohexane	83	9.268	9.268	0.000	83	198605	20.0	19.5	
59 Dibromomethane	174	9.390	9.390	0.000	70	90564	20.0	19.1	
63 Methyl methacrylate	69	9.396	9.396	0.000	81	127436	40.0	40.9	
62 Dichlorobromomethane	83	9.591	9.592	-0.001	99	136373	20.0	19.6	
58 2-Nitropropane	43	9.805	9.805	0.000	98	46816	40.0	37.9	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	90	35130	20.0	16.8	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	92	154252	20.0	19.8	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	93	163557	100.0	97.4	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	91	224556	10.0	10.1	
74 Toluene	91	10.341	10.341	0.000	96	489396	20.0	18.9	
70 n-Butyl acetate	43	10.475	10.475	0.000	91	11214	20.0	19.8	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	92	127119	20.0	18.2	
73 Ethyl methacrylate	69	10.622	10.622	0.000	81	104633	20.0	20.9	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	84	89628	20.0	18.8	
79 Tetrachloroethene	164	10.817	10.817	0.000	87	126763	20.0	18.5	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	85	141243	20.0	19.4	
76 2-Hexanone	58	10.933	10.933	0.000	90	175454	100.0	106.2	
77 Chlorodibromomethane	129	11.079	11.079	0.000	88	117527	20.0	20.1	
78 Ethylene Dibromide	107	11.170	11.170	0.000	96	91143	20.0	19.4	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	78	187199	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	97	337344	20.0	19.3	
80 1,1,1,2-Tetrachloroethane	131	11.683	11.683	-0.001	46	122518	20.0	19.5	
83 Ethylbenzene	91	11.683	11.683	-0.001	97	533618	20.0	19.1	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	399324	20.0	19.2	
88 o-Xylene	91	12.115	12.115	0.000	95	405892	20.0	19.9	
86 Styrene	104	12.134	12.134	0.000	94	340366	20.0	20.0	
85 Bromoform	173	12.286	12.286	0.000	99	86823	20.0	19.7	
91 Isopropylbenzene	105	12.414	12.414	0.000	95	548402	20.0	19.9	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	95	91845	10.0	10.3	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	90	104481	20.0	19.1	
93 Bromobenzene	156	12.682	12.682	0.000	82	159763	20.0	18.8	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	52	27589	20.0	18.8	
90 1,2,3-Trichloropropane	110	12.713	12.713	0.000	32	36872	20.0	18.5	
94 N-Propylbenzene	91	12.749	12.749	0.000	89	616515	20.0	19.4	
95 2-Chlorotoluene	126	12.829	12.835	-0.006	98	139704	20.0	18.8	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	95	452087	20.0	20.0	
96 4-Chlorotoluene	126	12.926	12.926	0.000	78	143748	20.0	19.0	
98 tert-Butylbenzene	119	13.152	13.152	0.000	88	413448	20.0	19.5	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	68	443503	20.0	16.4	
100 sec-Butylbenzene	105	13.329	13.329	0.000	93	603325	20.0	19.7	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	97	289737	20.0	18.3	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	96	533639	20.0	19.5	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	52	107715	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	97	295333	20.0	18.5	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	97	457577	20.0	20.0	
101 Benzyl chloride	126	13.597	13.597	0.000	97	49555	20.0	19.9	
108 n-Butylbenzene	134	13.761	13.761	0.000	96	139584	20.0	19.0	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	96	268783	20.0	18.3	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.402	-0.001	92	28612	20.0	20.3	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	96	235392	20.0	18.1	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	91	204584	20.0	19.3	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	92	144680	20.0	19.0	
112 Naphthalene	128	15.249	15.249	0.000	96	396591	20.0	22.6	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	95	197710	20.0	21.0	
\$ 118 BFB	95	12.560	12.560	0.000	95	77644	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterSEC\_00051

Amount Added: 2.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_013.D

Injection Date: 14-Jul-2020 20:07:30

Instrument ID: TAC119

Lims ID: ICV

Client ID:

Operator ID: cjb

ALS Bottle#: 13

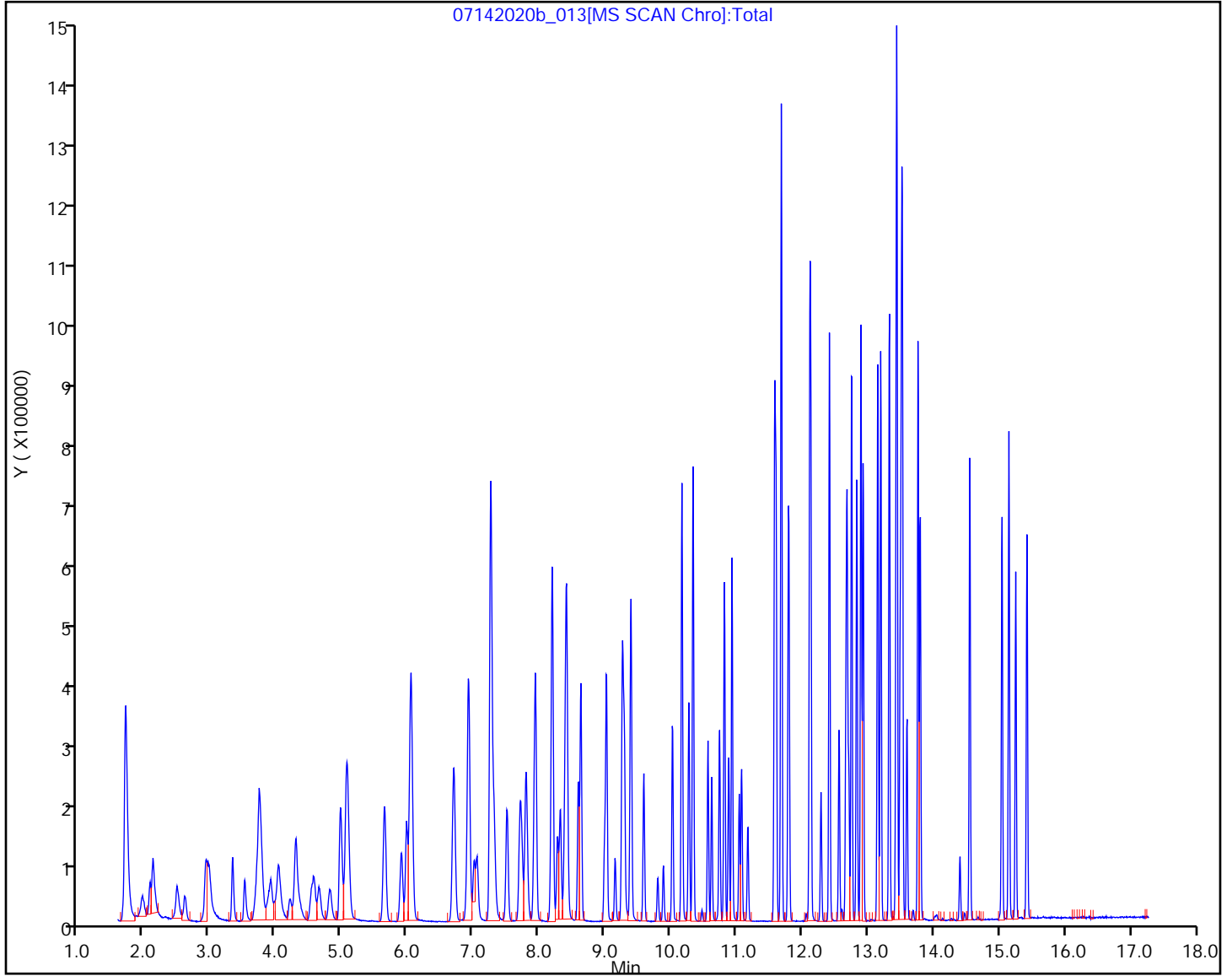
Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

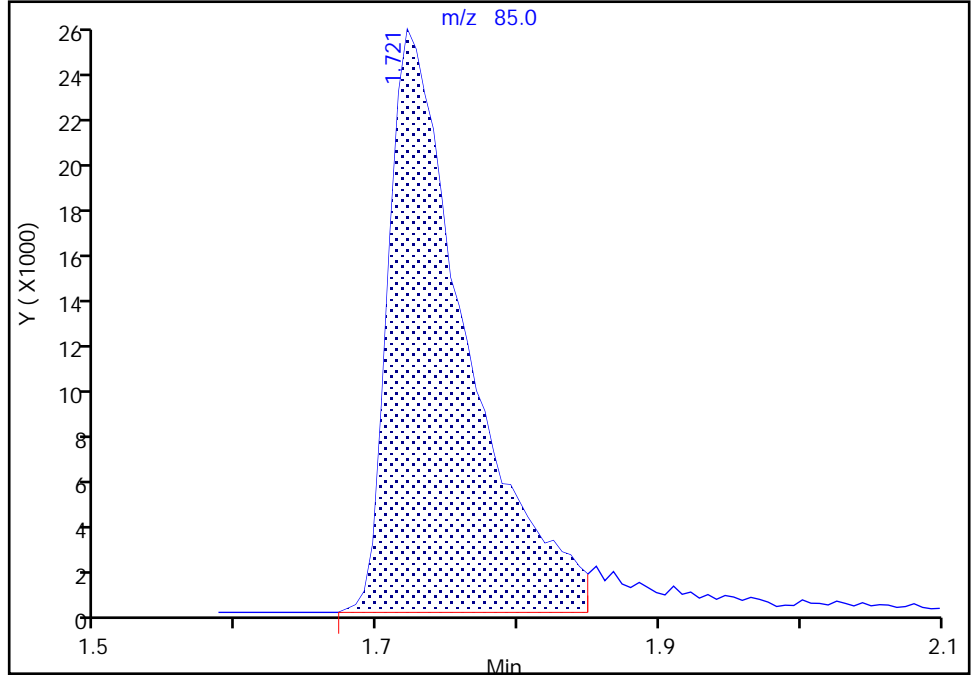
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_013.D  
Injection Date: 14-Jul-2020 20:07:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

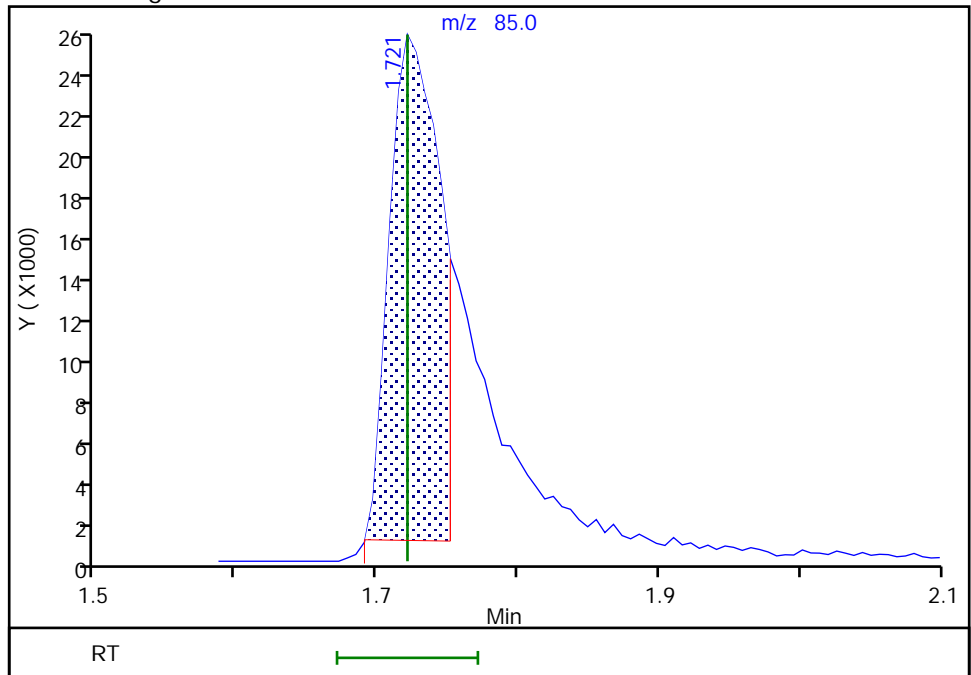
RT: 1.72  
Area: 97598  
Amount: 38.190826  
Amount Units: ug/L

Processing Integration Results



RT: 1.72  
Area: 60913  
Amount: 23.835711  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 09:52:41  
Audit Action: Manually Integrated

Audit Reason: Peak Tail

Eurofins TestAmerica, Seattle

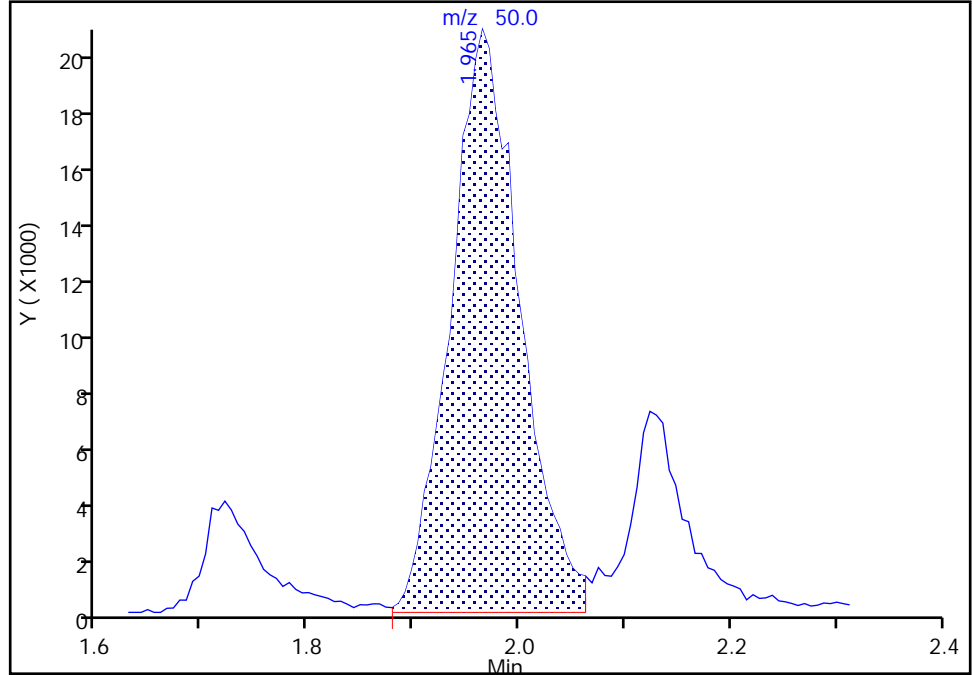
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_013.D  
Injection Date: 14-Jul-2020 20:07:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Signal: 1

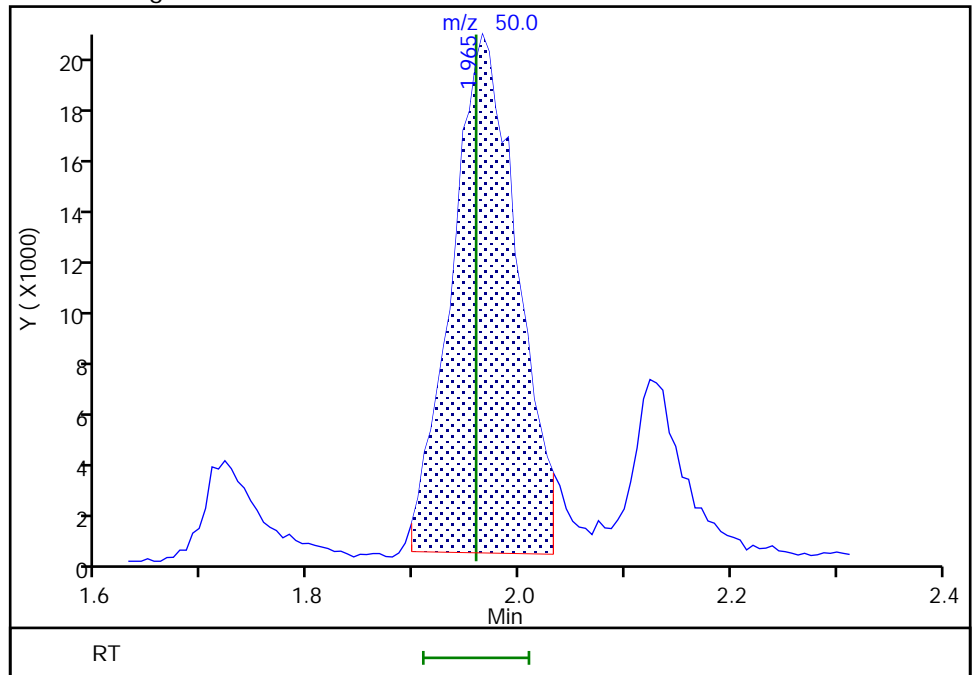
RT: 1.96  
Area: 95972  
Amount: 25.038192  
Amount Units: ug/L

Processing Integration Results



RT: 1.96  
Area: 89309  
Amount: 23.299878  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 09:54:05  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

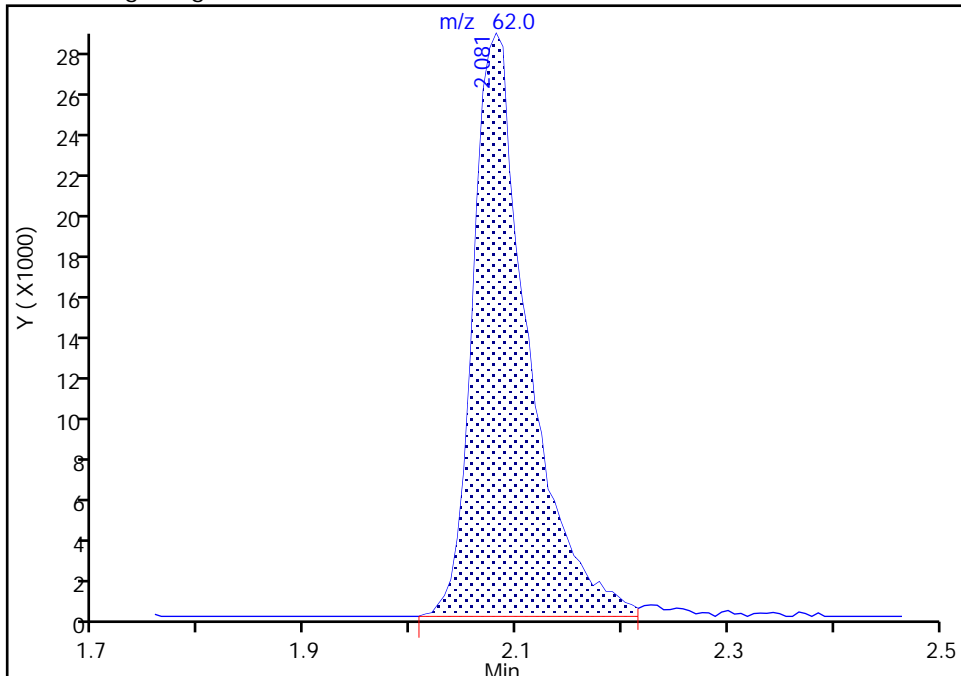
Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_013.D  
Injection Date: 14-Jul-2020 20:07:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

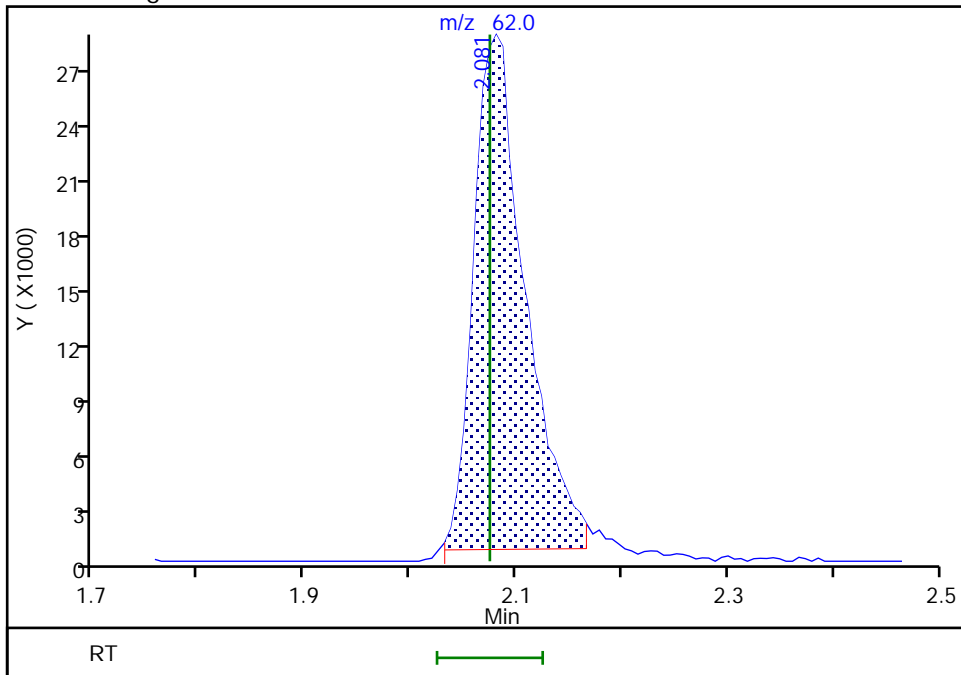
RT: 2.08  
Area: 102268  
Amount: 25.436901  
Amount Units: ug/L

Processing Integration Results



RT: 2.08  
Area: 93610  
Amount: 23.283415  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 09:54:12  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 338 of 425

Eurofins TestAmerica, Seattle

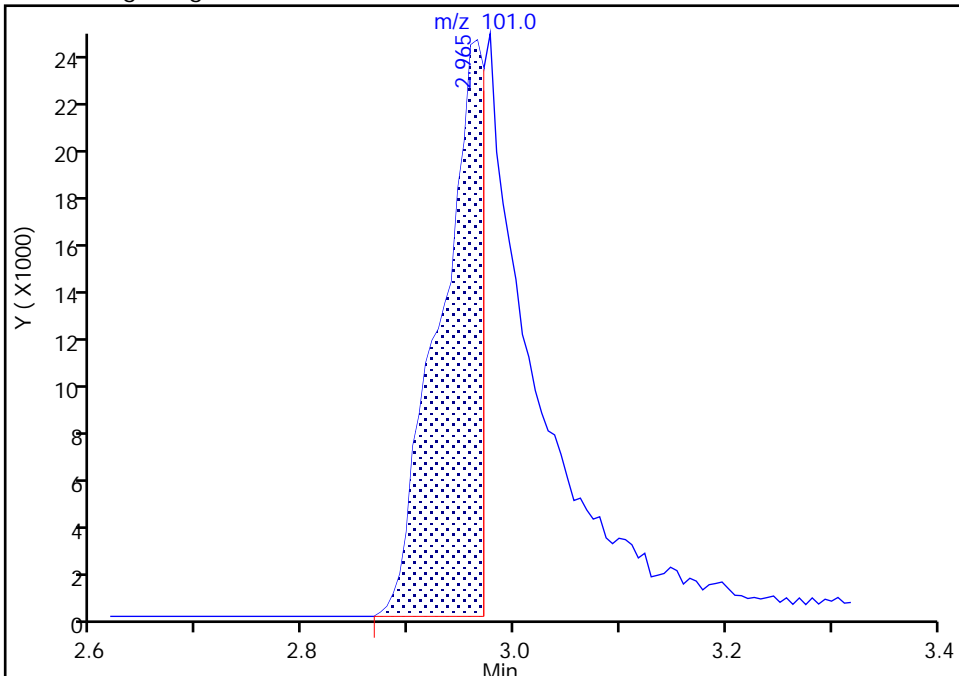
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Injection Date: 14-Jul-2020 20:07:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

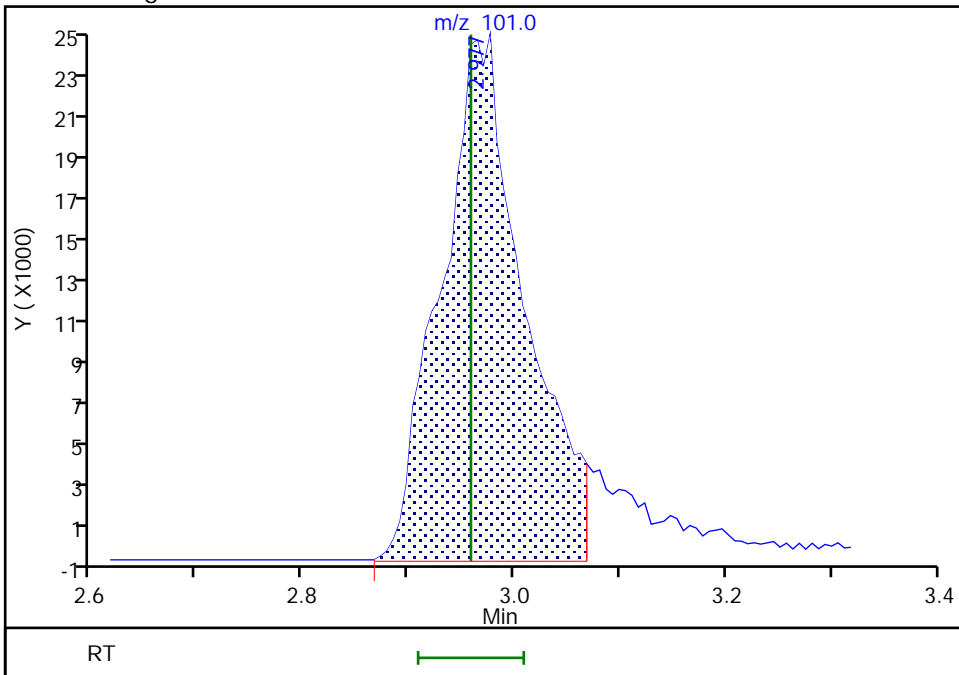
RT: 2.96  
Area: 69603  
Amount: 10.151884  
Amount Units: ug/L

Processing Integration Results



RT: 2.98  
Area: 133194  
Amount: 19.426893  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 09:53:55  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 339 of 425

Eurofins TestAmerica, Seattle

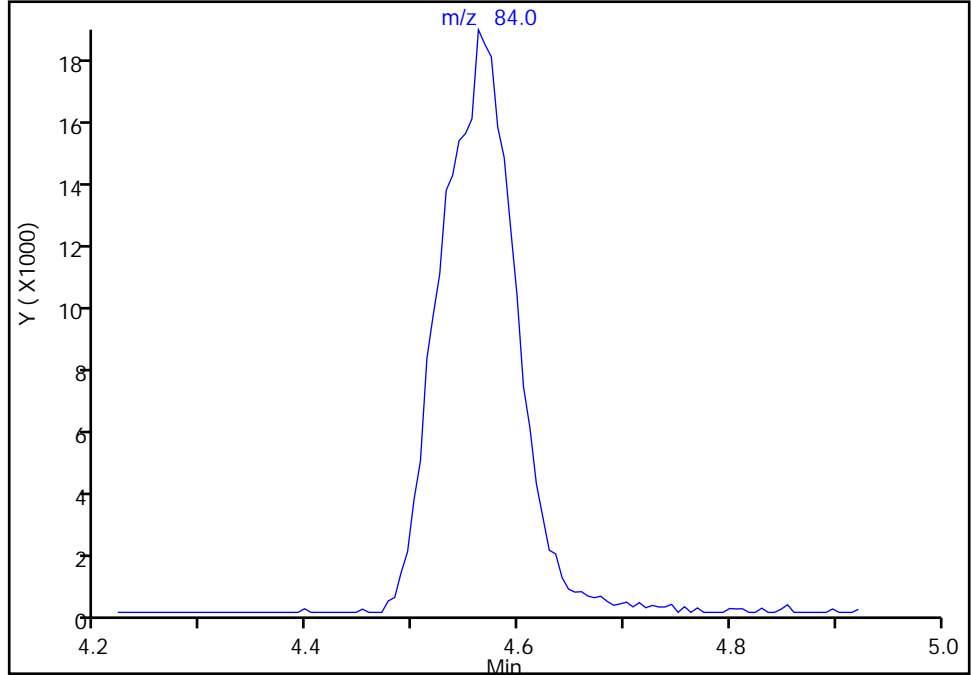
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Injection Date: 14-Jul-2020 20:07:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

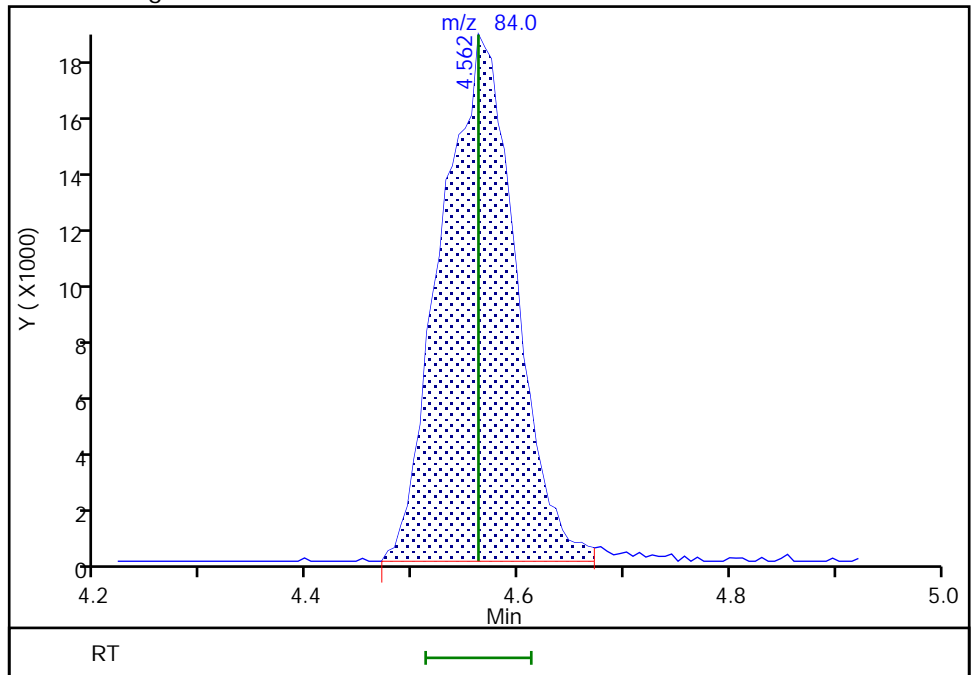
Not Detected  
Expected RT: 4.56

Processing Integration Results



RT: 4.56  
Area: 92337  
Amount: 17.637299  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 09:52:26  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Seattle

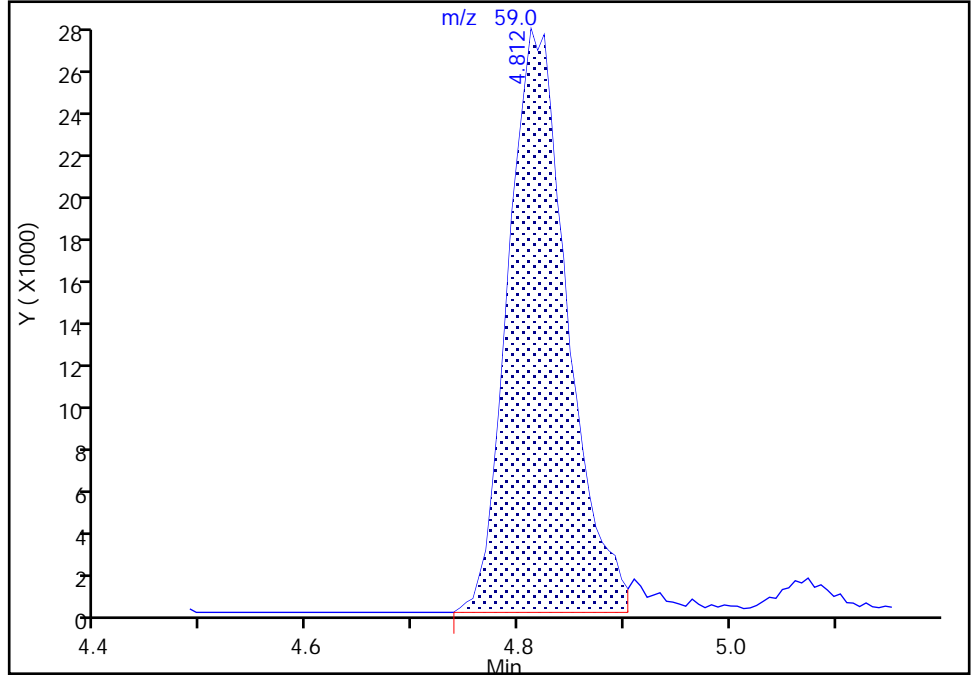
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Injection Date: 14-Jul-2020 20:07:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

20 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

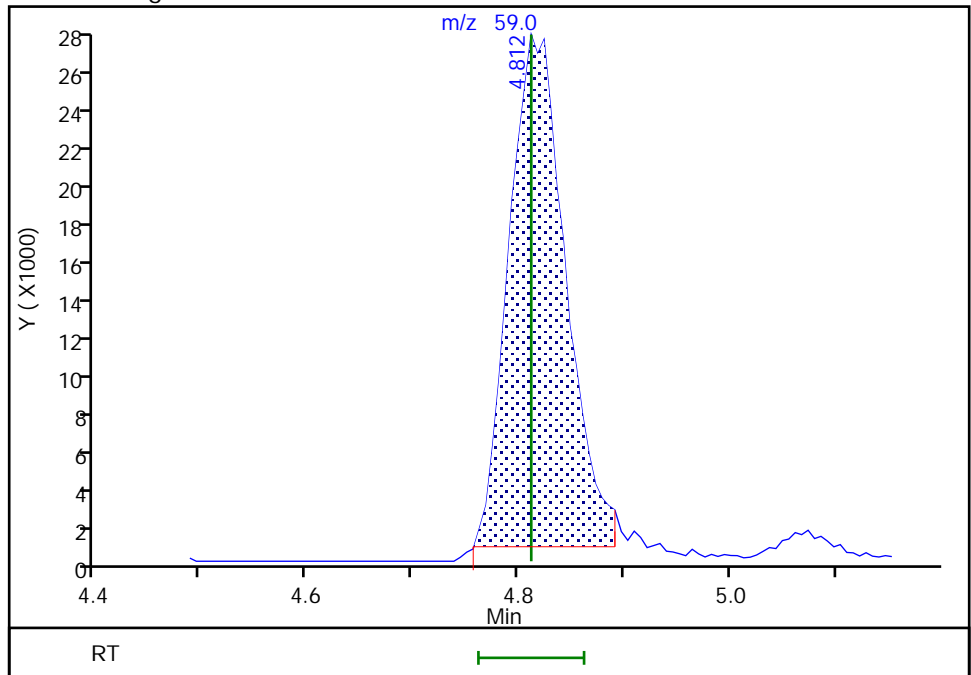
RT: 4.81  
Area: 105953  
Amount: 243.3900  
Amount Units: ug/L

Processing Integration Results



RT: 4.81  
Area: 98458  
Amount: 226.1729  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 09:54:53  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Seattle

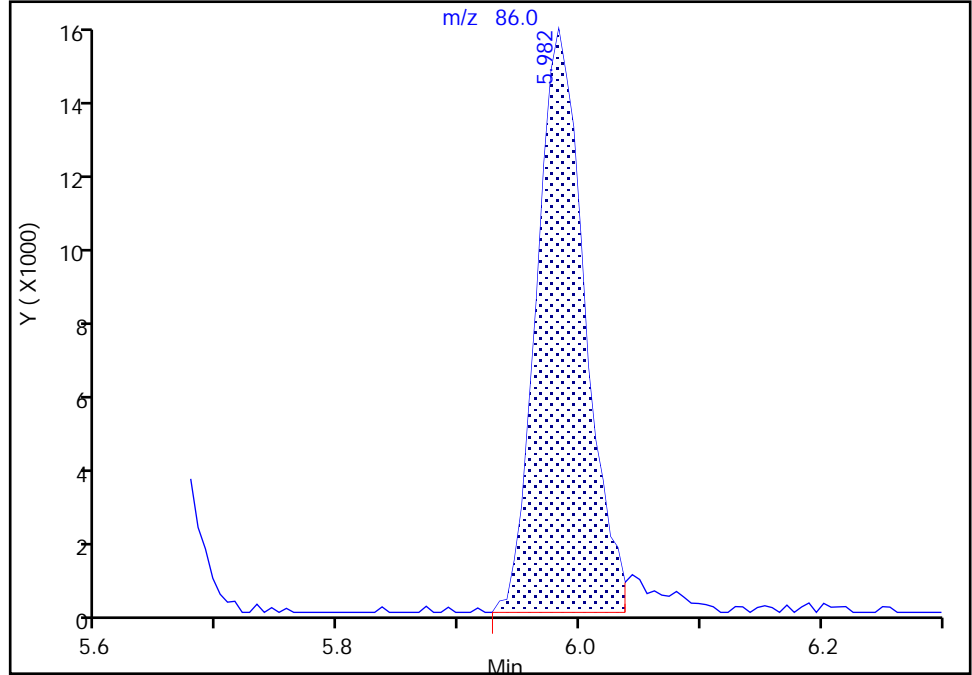
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Injection Date: 14-Jul-2020 20:07:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

31 Vinyl acetate, CAS: 108-05-4

Signal: 1

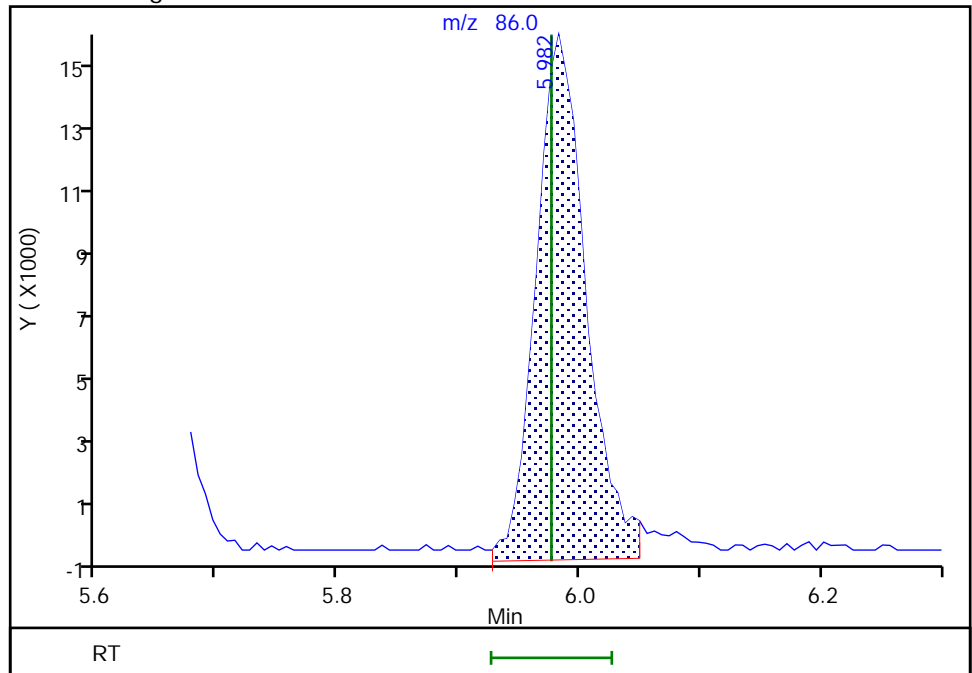
RT: 5.98  
Area: 42527  
Amount: 38.204037  
Amount Units: ug/L

Processing Integration Results



RT: 5.98  
Area: 45433  
Amount: 40.716408  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 15-Jul-2020 09:55:05  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-335064/3 Calibration Date: 08/07/2020 13:00  
 Instrument ID: TAC119 Calib Start Date: 07/14/2020 15:42  
 GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 07/14/2020 18:47  
 Lab File ID: 08072020\_003.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	0.1150	0.1073	0.1000	18.7	20.0	-6.7	20.0
Chloromethane	Ave	0.1725	0.1332	0.1000	15.4	20.0	-22.8*	20.0
Vinyl chloride	Ave	0.1809	0.1400	0.1000	15.5	20.0	-22.6*	20.0
Butadiene	Ave	0.1349	0.1048		15.5	20.0	-22.3*	20.0
Bromomethane	Ave	0.1535	0.1185	0.1000	15.4	20.0	-22.8*	20.0
Chloroethane	Qual		0.0597*	0.0600	11.9	20.0	-40.7*	20.0
Dichlorofluoromethane	Ave	0.3127	0.2578		16.5	20.0	-17.6	20.0
Trichlorofluoromethane	Ave	0.3086	0.2608	0.1000	16.9	20.0	-15.5	20.0
3-Chloro-1-propene	Qual		0.0268			20.0	-19.1	20.0
Ethyl ether	Ave	0.1497	0.1376		18.4	20.0	-8.1	20.0
Acrolein	Lin1		0.0311		127	120	5.6	20.0
1,1-Dichloroethene	Ave	0.1853	0.1481	0.1000	16.0	20.0	-20.0	20.0
Acetone	Ave	0.0590	0.0518	0.0200		100	-12.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2146	0.1852	0.1000	17.3	20.0	-13.7	20.0
Iodomethane	Ave	0.3844	0.3254		16.9	20.0	-15.4	20.0
Carbon disulfide	Ave	0.5990	0.4570	0.1000	15.3	20.0	-23.7*	20.0
Isopropyl alcohol	Ave	0.4323	0.4601			200	6.4	20.0
Acetonitrile	Lin1		0.0070		285	250	14.2	20.0
Methyl acetate	Ave	0.1352	0.1095	0.1000	32.4	40.0	-19.0	20.0
Methylene Chloride	Qua2		0.2063	0.1000		20.0	-12.5	20.0
2-Methyl-2-propanol	Ave	0.0196	0.0235			200	20.1*	20.0
Acrylonitrile	Ave	0.0553	0.0582		211	200	5.3	20.0
trans-1,2-Dichloroethene	Ave	0.2487	0.2073	0.1000	16.7	20.0	-16.7	20.0
Methyl tert-butyl ether	Ave	0.5932	0.5784	0.1000	19.5	20.0	-2.5	20.0
Hexane	Ave	0.3186	0.2677			20.0	-16.0	20.0
1,1-Dichloroethane	Ave	0.3732	0.3225	0.2000	17.3	20.0	-13.6	20.0
Vinyl acetate	Qual		0.0465		46.2	50.0	-7.7	20.0
2-Chloro-1,3-butadiene	Ave	0.3236	0.2969		18.3	20.0	-8.3	20.0
Isopropyl ether	Ave	0.5771	0.5620		24.3	25.0	-2.6	20.0
Tert-butyl ethyl ether	Ave	0.2945	0.2842		24.1	25.0	-3.5	20.0
2,2-Dichloropropane	Ave	0.2752	0.2261		16.4	20.0	-17.8	20.0
2-Butanone (MEK)	Ave	0.0266	0.0281	0.0200	106	100	5.6	20.0
cis-1,2-Dichloroethene	Ave	0.2792	0.2434	0.1000	17.4	20.0	-12.8	20.0
Propionitrile	Ave	0.0231	0.0266		288	250	15.1	20.0
Ethyl acetate	Ave	0.1601	0.1744		43.6	40.0	8.9	20.0
Methacrylonitrile	Ave	0.0823	0.0898		218	200	9.2	20.0
Chlorobromomethane	Ave	0.1948	0.1743		17.9	20.0	-10.5	20.0
Chloroform	Ave	0.4199	0.3773	0.2000	18.0	20.0	-10.1	20.0
1,1,1-Trichloroethane	Ave	0.3754	0.3287	0.1000	17.5	20.0	-12.4	20.0
Cyclohexane	Ave	0.3598	0.3122	0.1000	17.4	20.0	-13.2	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-335064/3 Calibration Date: 08/07/2020 13:00  
 Instrument ID: TAC119 Calib Start Date: 07/14/2020 15:42  
 GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 07/14/2020 18:47  
 Lab File ID: 08072020\_003.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
Carbon tetrachloride	Ave	0.3600	0.3179	0.1000	17.7	20.0	-11.7	20.0
1,1-Dichloropropene	Ave	0.3322	0.2864		17.2	20.0	-13.8	20.0
Benzene	Ave	1.000	0.8618	0.5000	17.2	20.0	-13.8	20.0
Isobutyl alcohol	Ave	0.3326	0.3986		599	500	19.9	20.0
1,2-Dichloroethane	Ave	0.2816	0.2611	0.1000	18.5	20.0	-7.3	20.0
Tert-amyl methyl ether	Ave	0.5940	0.6408		27.0	25.0	7.9	20.0
Tetrahydrofuran	Ave	0.0402	0.0359			40.0	-10.8	20.0
n-Heptane	Ave	0.3071	0.2757		18.0	20.0	-10.2	20.0
Trichloroethene	Ave	0.3280	0.2824	0.2000	17.2	20.0	-13.9	20.0
Ethyl acrylate	Ave	0.2169	0.2537		23.4	20.0	17.0	20.0
Methylcyclohexane	Ave	0.4591	0.4077	0.1000	17.8	20.0	-11.2	20.0
n-Butanol	Ave	0.0039	0.0033			500	-14.7	20.0
1,2-Dichloropropane	Ave	0.2173	0.2023	0.1000	18.6	20.0	-6.9	20.0
Dibromomethane	Ave	0.2136	0.2040		19.1	20.0	-4.5	20.0
Methyl methacrylate	Ave	0.1404	0.1621			40.0	15.5	20.0
Dichlorobromomethane	Ave	0.3135	0.3120	0.2000	19.9	20.0	-0.5	20.0
2-Nitropropane	Ave	0.0555	0.0673		48.4	40.0	21.1*	20.0
2-Chloroethyl vinyl ether	Lin1		0.1174		21.0	20.0	5.1	20.0
cis-1,3-Dichloropropene	Ave	0.4167	0.4179	0.2000	20.1	20.0	0.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0897	0.1044	0.0600	116	100	16.4	20.0
Toluene	Ave	1.385	1.203	0.4000	17.4	20.0	-13.2	20.0
n-Butyl acetate	Ave	0.0303	0.0329		21.8	20.0	8.8	20.0
trans-1,3-Dichloropropene	Ave	0.3734	0.3977	0.1000	21.3	20.0	6.5	20.0
Ethyl methacrylate	Ave	0.2677	0.3375		25.2	20.0	26.1*	20.0
1,1,2-Trichloroethane	Ave	0.2543	0.2554	0.1000	20.1	20.0	0.4	20.0
Tetrachloroethene	Ave	0.6354	0.5209	0.2000	16.4	20.0	-18.0	20.0
1,3-Dichloropropane	Ave	0.3883	0.3954		20.4	20.0	1.8	20.0
2-Hexanone	Ave	0.0883	0.1055	0.0600	119	100	19.5	20.0
Chlorodibromomethane	Ave	0.3119	0.3383	0.1000	21.7	20.0	8.5	20.0
Ethylene Dibromide	Ave	0.2510	0.2567	0.1000	20.5	20.0	2.3	20.0
Chlorobenzene	Ave	0.9356	0.9143	0.5000	19.5	20.0	-2.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3352	0.3491		20.8	20.0	4.1	20.0
Ethylbenzene	Ave	1.492	1.435	0.1000	19.2	20.0	-3.8	20.0
m-Xylene & p-Xylene	Ave	1.111	1.103	0.1000	19.9	20.0	-0.7	20.0
o-Xylene	Ave	1.092	1.135	0.3000	20.8	20.0	4.0	20.0
Styrene	Ave	0.9078	0.9826	0.3000	21.6	20.0	8.2	20.0
Bromoform	Ave	0.2350	0.2700	0.1000	23.0	20.0	14.9	20.0
Isopropylbenzene	Ave	1.469	1.543	0.1000	21.0	20.0	5.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5092	0.5634	0.3000	22.1	20.0	10.6	20.0
Bromobenzene	Ave	0.7885	0.7986		20.3	20.0	1.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1365	0.1492			20.0	9.3	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 580-335064/3 Calibration Date: 08/07/2020 13:00

Instrument ID: TAC119 Calib Start Date: 07/14/2020 15:42

GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 07/14/2020 18:47

Lab File ID: 08072020\_003.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
1,2,3-Trichloropropane	Ave	0.1853	0.1926		20.8	20.0	4.0	20.0
N-Propylbenzene	Ave	2.957	3.007		20.3	20.0	1.7	20.0
2-Chlorotoluene	Ave	0.6898	0.6869		19.9	20.0	-0.4	20.0
1,3,5-Trimethylbenzene	Ave	2.101	2.189		20.8	20.0	4.2	20.0
4-Chlorotoluene	Ave	0.7012	0.7174		20.5	20.0	2.3	20.0
tert-Butylbenzene	Ave	1.970	2.066		21.0	20.0	4.9	20.0
1,2,4-Trimethylbenzene	Qual		2.266		18.1	20.0	-9.5	20.0
sec-Butylbenzene	Ave	2.849	2.982		20.9	20.0	4.7	20.0
1,3-Dichlorobenzene	Ave	1.471	1.501	0.6000	20.4	20.0	2.0	20.0
4-Isopropyltoluene	Ave	2.539	2.691		21.2	20.0	6.0	20.0
1,4-Dichlorobenzene	Ave	1.480	1.513	0.5000	20.4	20.0	2.2	20.0
1,2,3-Trimethylbenzene	Ave	2.119	2.295		21.7	20.0	8.3	20.0
Benzyl chloride	Ave	0.2306	0.2798		24.3	20.0	21.3*	20.0
n-Butylbenzene	Ave	0.6810	0.7309		21.5	20.0	7.3	20.0
1,2-Dichlorobenzene	Ave	1.365	1.450	0.4000	21.2	20.0	6.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1308	0.1412	0.0500	21.6	20.0	8.0	20.0
1,3,5-Trichlorobenzene	Ave	1.207	1.279		21.2	20.0	6.0	20.0
1,2,4-Trichlorobenzene	Ave	0.9857	1.042	0.2000	21.1	20.0	5.7	20.0
Hexachlorobutadiene	Ave	0.7067	0.7246		20.5	20.0	2.5	20.0
Naphthalene	Ave	1.631	1.730		21.2	20.0	6.1	20.0
1,2,3-Trichlorobenzene	Ave	0.8759	0.8864		20.2	20.0	1.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2471	0.2555		10.3	10.0	3.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2276	0.2275		10.0	10.0	-0.0	20.0
Toluene-d8 (Surr)	Ave	1.192	1.183		9.92	10.0	-0.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4781	0.5072		10.6	10.0	6.1	20.0

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_003.D  
 Lims ID: ccvis  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 07-Aug-2020 13:00:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ccvis  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 08:46:05 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: bohnc

Date: 07-Aug-2020 15:45:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.715	1.715	0.000	84	31892	20.0	18.7	
4 Chloromethane	50	1.947	1.947	0.000	92	39582	20.0	15.4	
5 Vinyl chloride	62	2.075	2.075	0.000	82	41624	20.0	15.5	
6 Butadiene	54	2.130	2.130	0.000	85	31143	20.0	15.5	M
7 Bromomethane	94	2.483	2.483	0.000	89	35219	20.0	15.4	M
8 Chloroethane	66	2.605	2.605	0.000	93	9346	20.0	11.9	
10 Dichlorofluoromethane	67	2.928	2.928	0.000	80	76626	20.0	16.5	
14 Trichlorofluoromethane	101	2.965	2.965	0.000	96	77538	20.0	16.9	M
11 3-Chloro-1-propene	76	2.977	2.977	0.000	73	7004	20.0	16.2	M
17 Ethyl ether	59	3.337	3.337	0.000	86	40893	20.0	18.4	
12 Acrolein	56	3.519	3.519	0.000	92	55478	120.0	126.8	
19 1,1-Dichloroethene	96	3.702	3.702	0.000	96	44036	20.0	16.0	
16 Acetone	43	3.745	3.745	0.000	99	76952	100.0	87.8	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.751	3.751	0.000	64	55066	20.0	17.3	
22 Iodomethane	142	3.910	3.910	0.000	96	96730	20.0	16.9	
26 Carbon disulfide	76	4.038	4.038	0.000	98	135862	20.0	15.3	
S 2 Xylenes, Total	100				0		40.0	40.7	
15 Isopropyl alcohol	45	4.044	4.044	0.000	96	29459	200.0	212.9	
13 Acetonitrile	40	4.208	4.208	0.000	99	26170	250.0	285.5	
24 Methyl acetate	43	4.306	4.306	0.000	96	65085	40.0	32.4	
23 Methylene Chloride	84	4.562	4.562	0.000	80	61333	20.0	17.5	
* 18 TBA-d9 (IS)	65	4.653	4.653	0.000	0	64031	200.0	200.0	
20 2-Methyl-2-propanol	59	4.812	4.812	0.000	98	69955	200.0	240.2	
21 Acrylonitrile	53	4.977	4.977	0.000	98	172880	200.0	210.5	
27 trans-1,2-Dichloroethene	96	5.068	5.068	0.000	61	61625	20.0	16.7	
28 Methyl tert-butyl ether	73	5.074	5.074	0.000	82	171929	20.0	19.5	
34 Hexane	57	5.647	5.647	0.000	89	79581	20.0	16.8	
30 1,1-Dichloroethane	63	5.903	5.903	0.000	96	95871	20.0	17.3	
31 Vinyl acetate	86	5.982	5.982	0.000	97	34564	50.0	46.2	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	70	88259	20.0	18.3	
35 Isopropyl ether	45	6.049	6.049	0.000	55	208826	25.0	24.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	96	105612	25.0	24.1	
43 2,2-Dichloropropane	77	6.915	6.915	0.000	60	67207	20.0	16.4	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	61	72354	20.0	17.4	
33 2-Butanone (MEK)	72	6.927	6.927	0.000	97	41751	100.0	105.6	
29 Propionitrile	54	7.007	7.007	0.000	86	98952	250.0	287.7	
38 Ethyl acetate	43	7.055	7.055	0.000	98	103707	40.0	43.6	
36 Methacrylonitrile	67	7.263	7.263	0.000	89	267070	200.0	218.3	
39 Chlorobromomethane	130	7.305	7.305	0.000	62	51798	20.0	17.9	
40 Chloroform	83	7.507	7.507	0.000	93	112154	20.0	18.0	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	89	97710	20.0	17.5	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	60	37975	10.0	10.3	
51 Cyclohexane	84	7.799	7.799	0.000	85	92805	20.0	17.4	
52 Carbon tetrachloride	117	7.927	7.927	0.000	80	94491	20.0	17.7	
50 1,1-Dichloropropene	75	7.939	7.939	0.000	94	85144	20.0	17.2	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	33813	10.0	10.0	
53 Benzene	78	8.195	8.195	0.000	95	256183	20.0	17.2	
42 Isobutyl alcohol	43	8.202	8.202	0.000	51	63811	500.0	599.3	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	85	77608	20.0	18.5	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	96	238124	25.0	27.0	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	99	148635	10.0	10.0	
45 Tetrahydrofuran	42	8.628	8.628	0.000	28	21355	40.0	35.7	
56 n-Heptane	43	8.634	8.634	0.000	85	81953	20.0	18.0	
61 Trichloroethene	132	9.025	9.025	0.000	92	83956	20.0	17.2	
57 Ethyl acrylate	55	9.153	9.153	0.000	98	75413	20.0	23.4	
49 n-Butanol	56	9.262	9.262	0.000	41	24409	500.0	426.4	
66 Methylcyclohexane	83	9.262	9.262	0.000	84	121188	20.0	17.8	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	92	60138	20.0	18.6	a
59 Dibromomethane	174	9.390	9.390	0.000	60	60649	20.0	19.1	
63 Methyl methacrylate	69	9.396	9.396	0.000	83	96375	40.0	46.2	
62 Dichlorobromomethane	83	9.591	9.591	0.000	93	92735	20.0	19.9	
58 2-Nitropropane	43	9.805	9.805	0.000	98	39984	40.0	48.4	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	93	30715	20.0	21.0	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	91	109385	20.0	20.1	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	94	136610	100.0	116.4	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	91	154845	10.0	9.92	
74 Toluene	91	10.341	10.341	0.000	95	314732	20.0	17.4	
70 n-Butyl acetate	43	10.475	10.475	0.000	82	8616	20.0	21.8	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	88	104098	20.0	21.3	
73 Ethyl methacrylate	69	10.622	10.622	0.000	83	88327	20.0	25.2	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	85	66846	20.0	20.1	
79 Tetrachloroethene	164	10.817	10.817	0.000	87	81626	20.0	16.4	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	87	103498	20.0	20.4	
76 2-Hexanone	58	10.933	10.933	0.000	91	138014	100.0	119.5	
77 Chlorodibromomethane	129	11.079	11.079	0.000	90	88537	20.0	21.7	
78 Ethylene Dibromide	107	11.170	11.170	0.000	97	67187	20.0	20.5	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	83	130866	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	97	239304	20.0	19.5	
80 1,1,1,2-Tetrachloroethane	131	11.683	11.683	0.000	46	91371	20.0	20.8	
83 Ethylbenzene	91	11.683	11.683	0.000	97	375561	20.0	19.2	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	288610	20.0	19.9	
88 o-Xylene	91	12.115	12.115	0.000	95	297146	20.0	20.8	
86 Styrene	104	12.128	12.128	0.000	94	257186	20.0	21.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	98	70667	20.0	23.0	
91 Isopropylbenzene	105	12.414	12.414	0.000	94	403972	20.0	21.0	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	95	66379	10.0	10.6	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	88	88273	20.0	22.1	
93 Bromobenzene	156	12.682	12.682	0.000	81	125139	20.0	20.3	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	53	23384	20.0	21.9	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	36	30183	20.0	20.8	
94 N-Propylbenzene	91	12.749	12.749	0.000	88	471119	20.0	20.3	
95 2-Chlorotoluene	126	12.829	12.829	0.000	98	107632	20.0	19.9	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	93	343067	20.0	20.8	
96 4-Chlorotoluene	126	12.926	12.926	0.000	87	112412	20.0	20.5	
98 tert-Butylbenzene	119	13.152	13.152	0.000	88	323771	20.0	21.0	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	39	355003	20.0	18.1	
100 sec-Butylbenzene	105	13.322	13.322	0.000	93	467239	20.0	20.9	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	96	235133	20.0	20.4	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	96	421615	20.0	21.2	
* 103 1,4-Dichlorobenzene-d4	152	13.487	13.487	0.000	63	78346	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	97	237146	20.0	20.4	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	82	359539	20.0	21.7	
101 Benzyl chloride	126	13.591	13.591	0.000	97	43837	20.0	24.3	
108 n-Butylbenzene	134	13.761	13.761	0.000	96	114531	20.0	21.5	
107 1,2-Dichlorobenzene	146	13.792	13.792	0.000	97	227178	20.0	21.2	
109 1,2-Dibromo-3-Chloropropane	157	14.402	14.402	0.000	88	22124	20.0	21.6	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	96	200477	20.0	21.2	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	93	163259	20.0	21.1	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	91	113546	20.0	20.5	
112 Naphthalene	128	15.249	15.249	0.000	96	271150	20.0	21.2	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	95	138887	20.0	20.2	
\$ 118 BFB	95	12.560	12.560	0.000	95	57253	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 2.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_003.D

Injection Date: 07-Aug-2020 13:00:30

Instrument ID: TAC119

Lims ID: ccvis

Client ID:

Operator ID: cjb

ALS Bottle#: 3

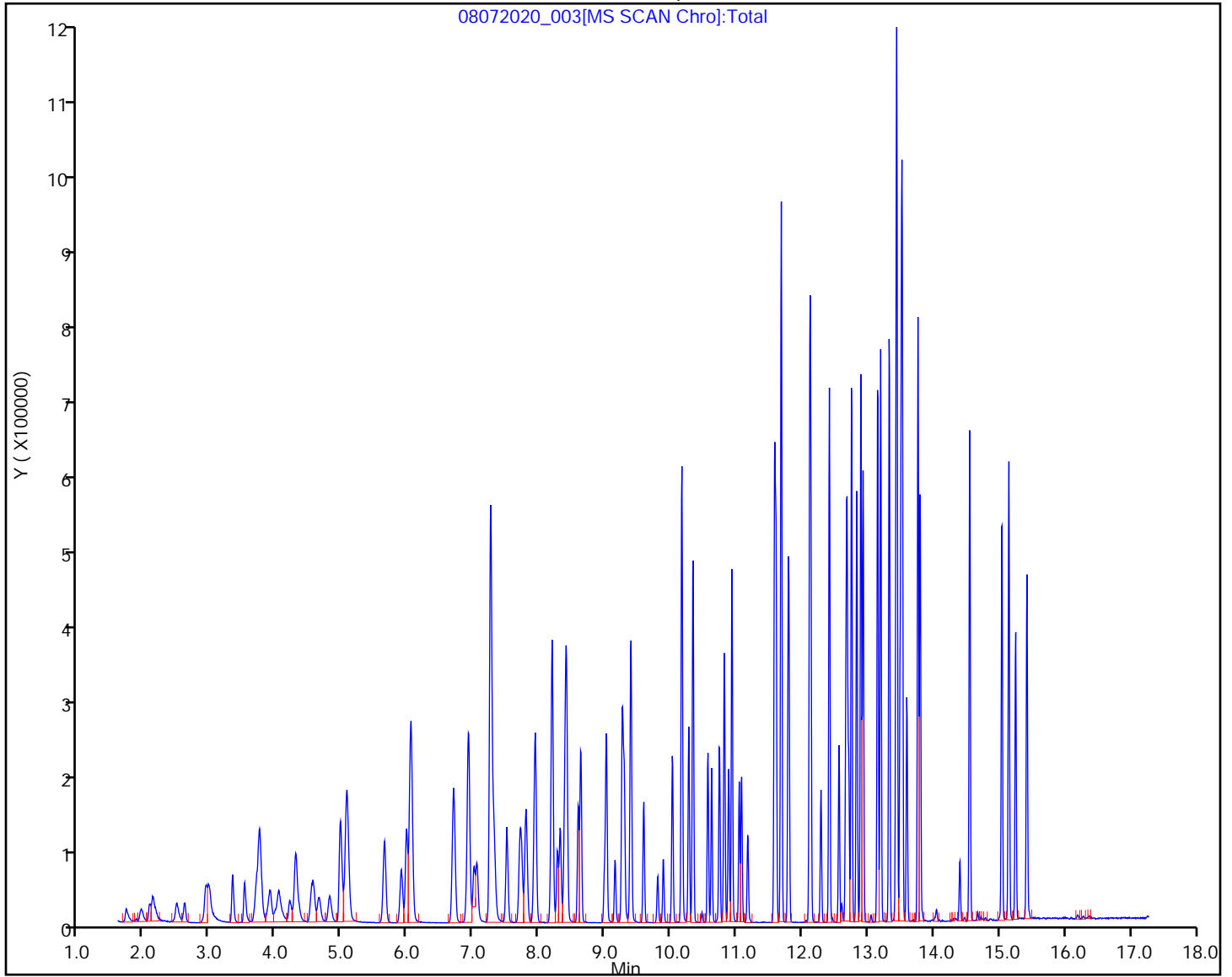
Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C





Eurofins TestAmerica, Seattle

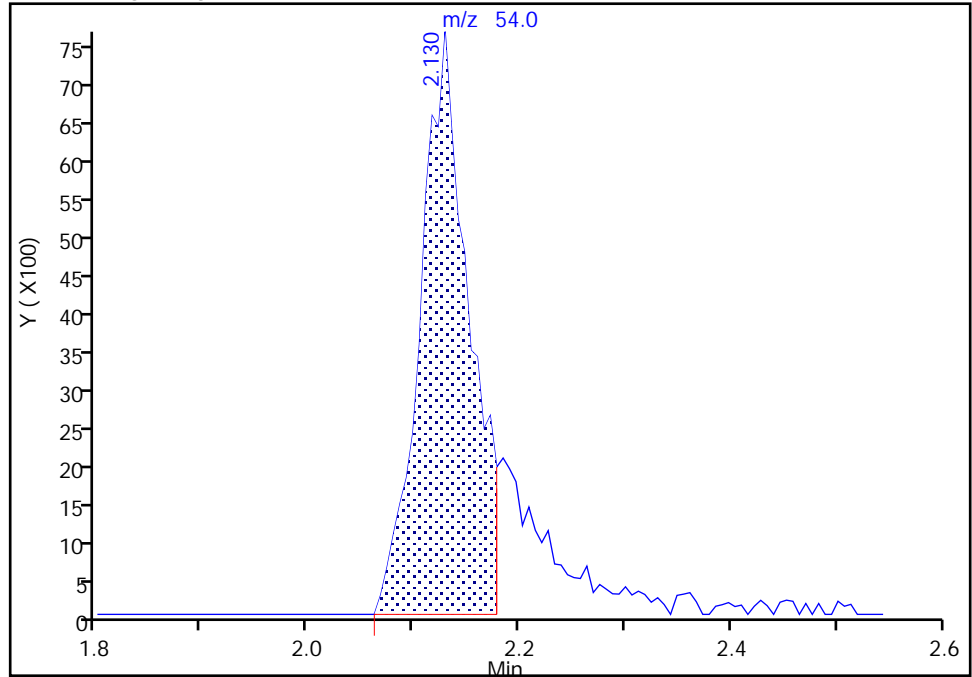
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Injection Date: 07-Aug-2020 13:00:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

6 Butadiene, CAS: 106-99-0

Signal: 1

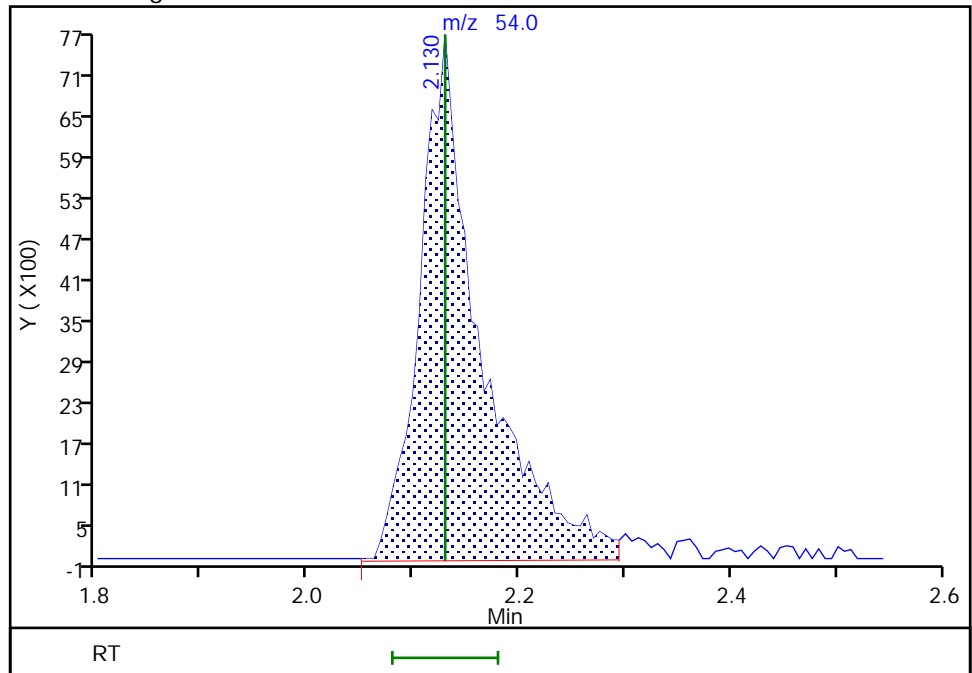
RT: 2.13  
Area: 24697  
Amount: 12.318279  
Amount Units: ug/L

Processing Integration Results



RT: 2.13  
Area: 31143  
Amount: 15.533392  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 07-Aug-2020 15:44:26  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

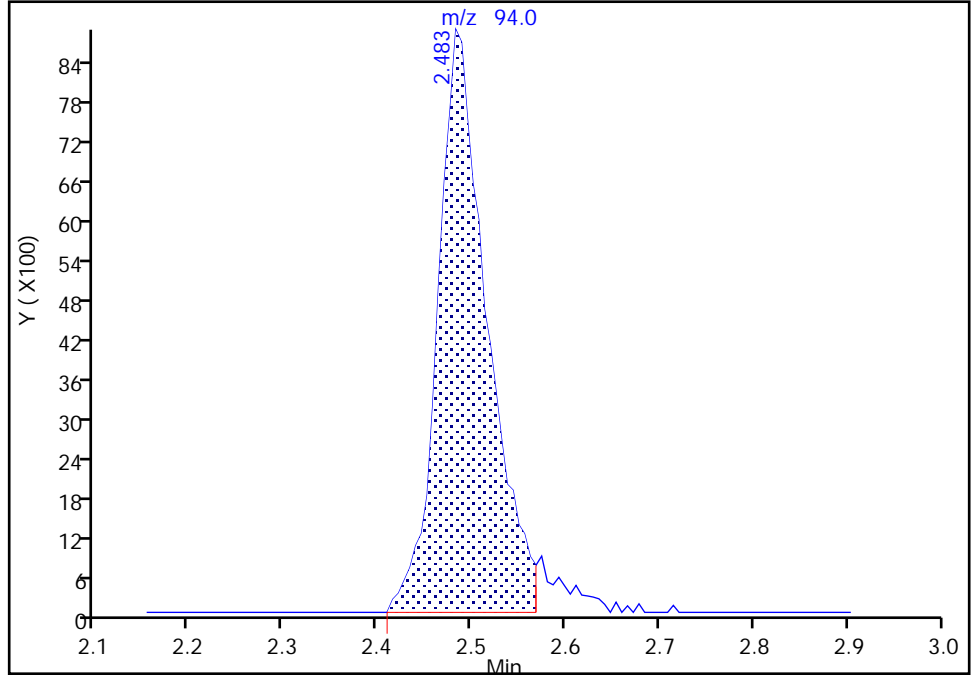
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Injection Date: 07-Aug-2020 13:00:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

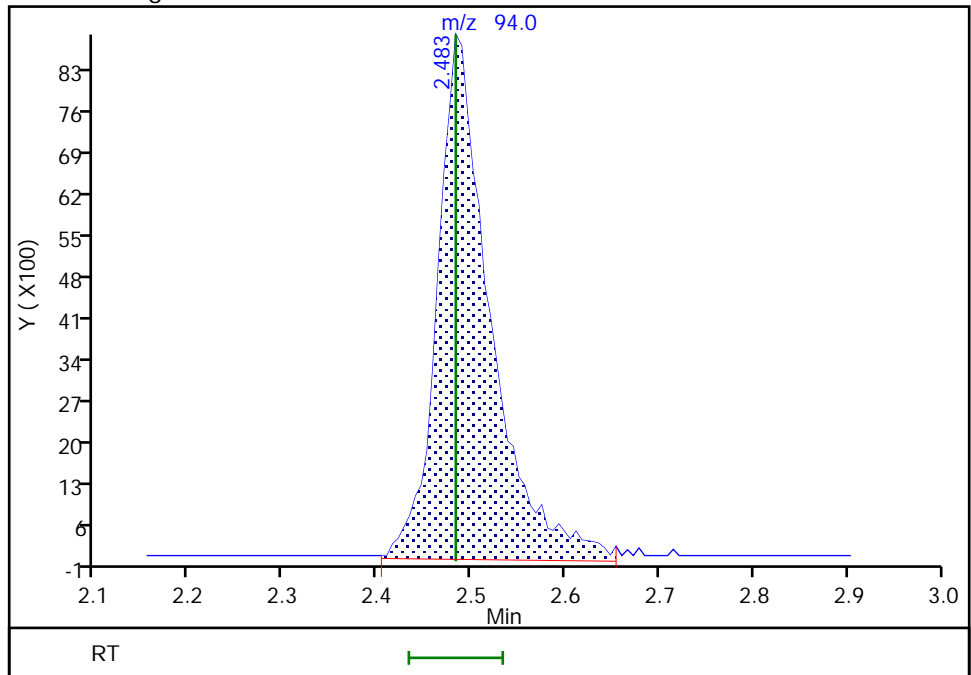
RT: 2.48  
Area: 32400  
Amount: 14.197290  
Amount Units: ug/L

Processing Integration Results



RT: 2.48  
Area: 35219  
Amount: 15.432542  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 07-Aug-2020 15:44:33  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

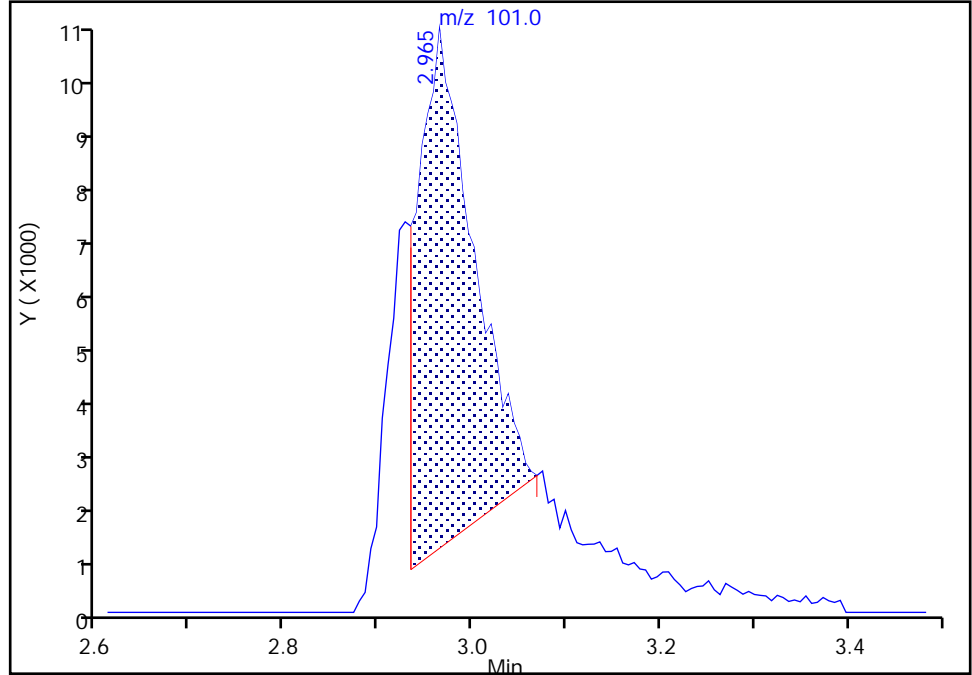
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Injection Date: 07-Aug-2020 13:00:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

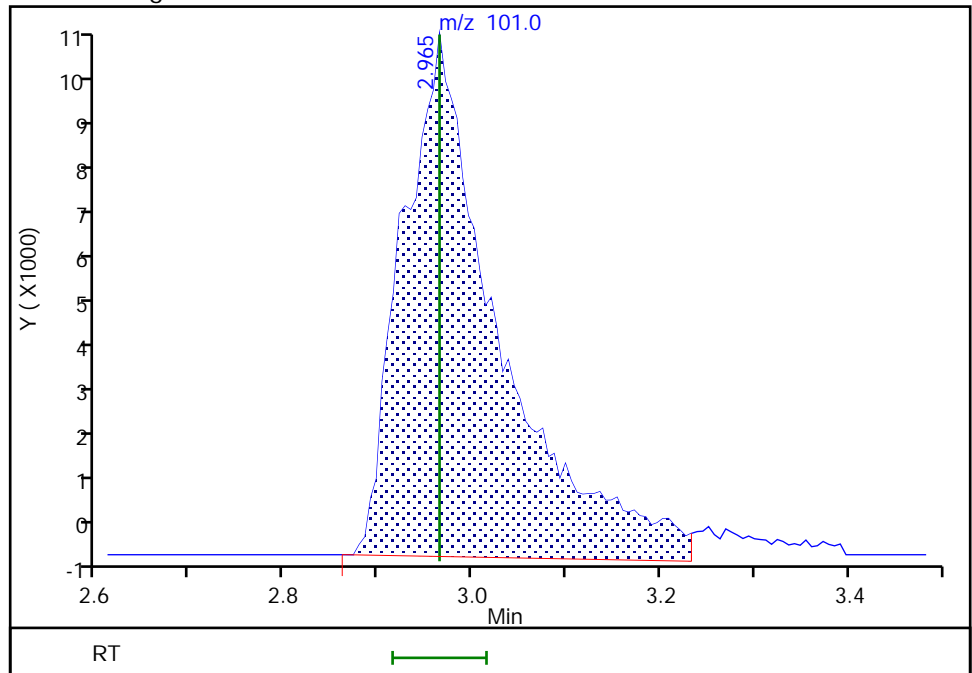
RT: 2.96  
Area: 39491  
Amount: 8.610339  
Amount Units: ug/L

Processing Integration Results



RT: 2.96  
Area: 77538  
Amount: 16.905838  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 07-Aug-2020 15:44:06  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 352 of 425

Eurofins TestAmerica, Seattle

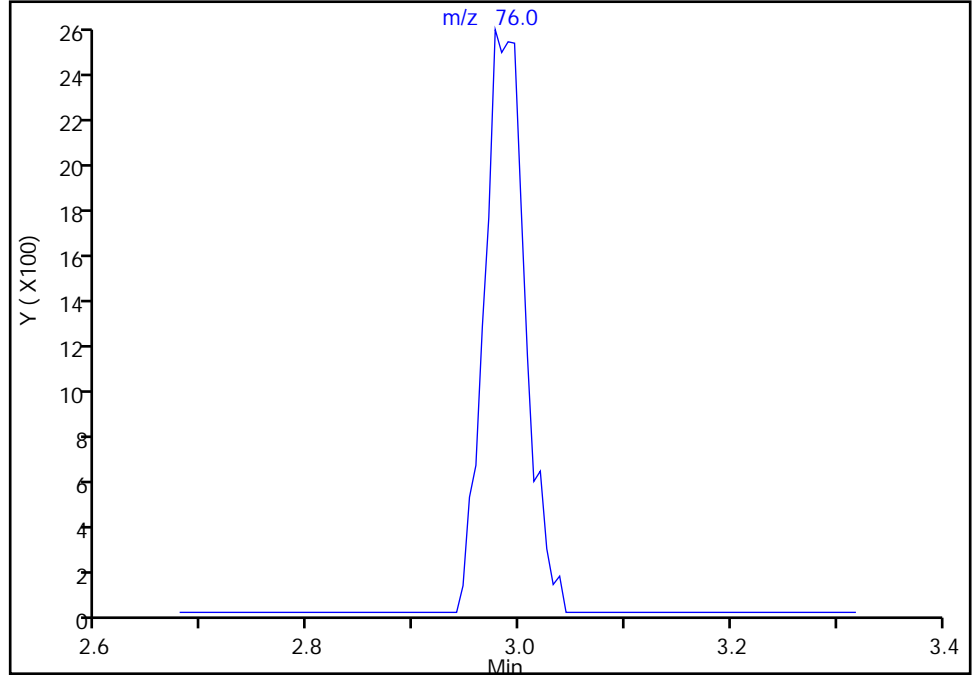
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Injection Date: 07-Aug-2020 13:00:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

11 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

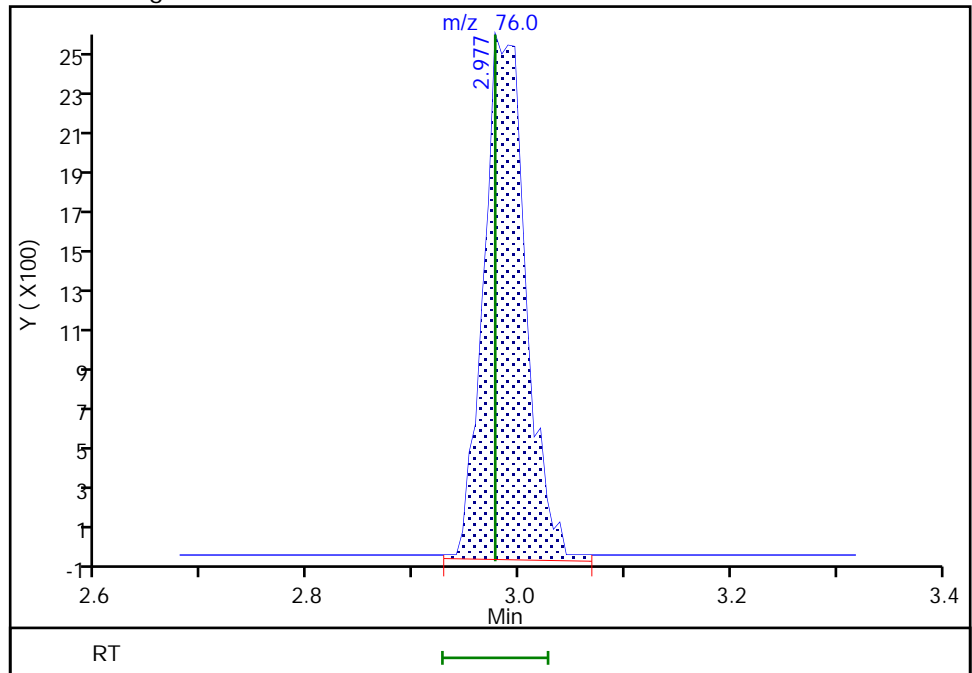
Not Detected  
Expected RT: 2.98

Processing Integration Results



Manual Integration Results

RT: 2.98  
Area: 7004  
Amount: 16.182528  
Amount Units: ug/L



Reviewer: bohnc, 07-Aug-2020 15:44:11  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

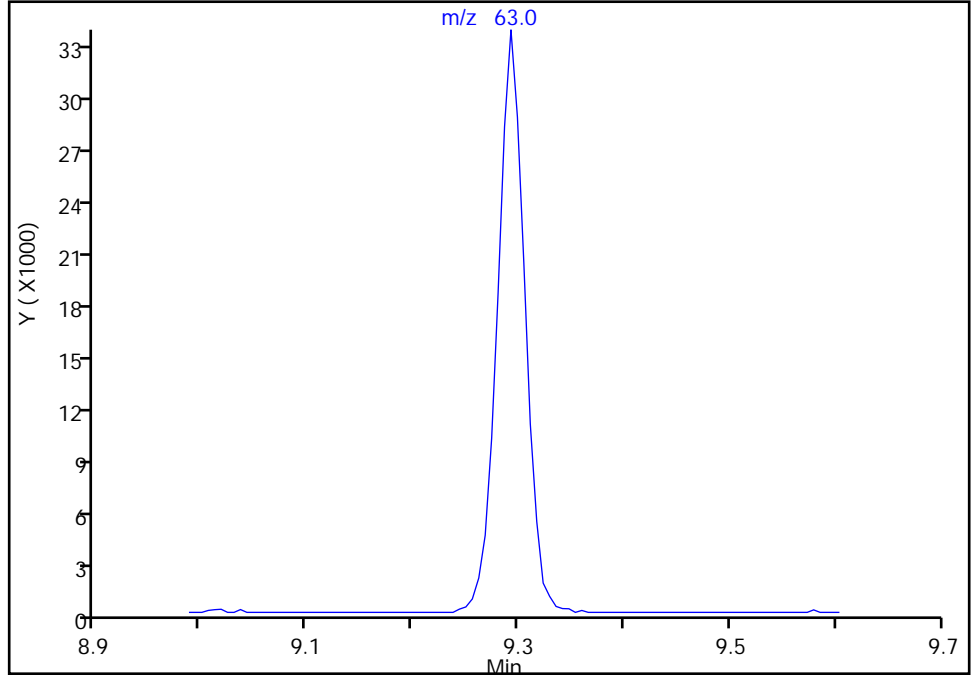
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Injection Date: 07-Aug-2020 13:00:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

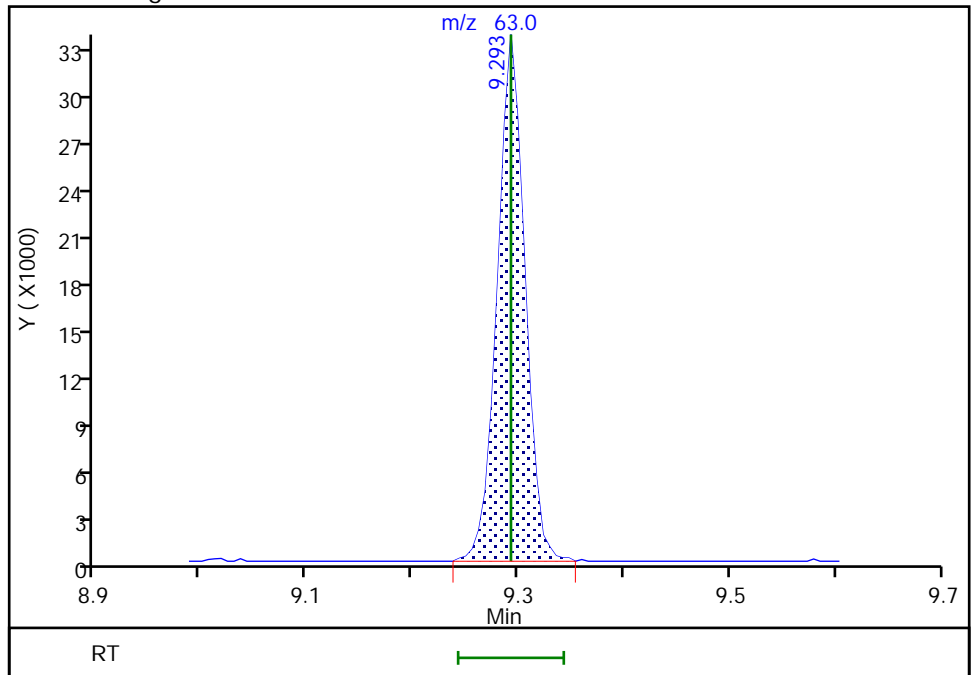
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 60138  
Amount: 18.617805  
Amount Units: ug/L



Reviewer: bohnc, 07-Aug-2020 15:45:04  
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 580-335064/6 Calibration Date: 08/07/2020 14:19  
 Instrument ID: TAC119 Calib Start Date: 07/14/2020 15:42  
 GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 07/14/2020 18:47  
 Lab File ID: 08072020\_006.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	0.1150	0.1334	0.1000	1.16	1.00	16.0	
Chloromethane	Ave	0.1725	0.1502	0.1000		1.00	-13.0	
Vinyl chloride	Ave	0.1809	0.1278	0.1000	0.706	1.00	-29.4	
Butadiene	Ave	0.1349	0.1239			1.00	-8.1	
Bromomethane	Ave	0.1535	0.1222	0.1000	0.796	1.00	-20.4	
Chloroethane	Qual		0.0510*	0.0600		1.00	-33.0	
Trichlorofluoromethane	Ave	0.3086	0.2781	0.1000	0.901	1.00	-9.9	
Dichlorofluoromethane	Ave	0.3127	0.2826		0.904	1.00	-9.6	
3-Chloro-1-propene	Qual		0.0249			1.00	32.1	
Ethyl ether	Ave	0.1497	0.1490		0.995	1.00	-0.5	
Acrolein	Lin1		0.0621		13.9	6.00	132.4	
1,1-Dichloroethene	Ave	0.1853	0.1767	0.1000		1.00	-4.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2146	0.2102	0.1000	0.979	1.00	-2.1	
Acetone	Ave	0.0590	0.1715	0.0200	14.5	5.00	190.8	
Iodomethane	Ave	0.3844	0.3681		0.958	1.00	-4.2	
Carbon disulfide	Ave	0.5990	0.5113	0.1000	0.854	1.00	-14.6	
Isopropyl alcohol	Ave	0.4323	4.326		100	10.0	900.8	
Acetonitrile	Lin1		0.0306		69.9	12.5	459.5	
Methyl acetate	Ave	0.1352	0.1916	0.1000	2.83	2.00	41.7	
Methylene Chloride	Qua2		0.5601	0.1000		1.00	104.2	
2-Methyl-2-propanol	Ave	0.0196	0.1630		83.2	10.0	732.1	
Acrylonitrile	Ave	0.0553	0.1152		20.9	10.0	108.5	
trans-1,2-Dichloroethene	Ave	0.2487	0.2193	0.1000	0.882	1.00	-11.8	
Methyl tert-butyl ether	Ave	0.5932	0.8104	0.1000	1.37	1.00	36.6	
Hexane	Ave	0.3186	0.3045			1.00	-4.4	
1,1-Dichloroethane	Ave	0.3732	0.4169	0.2000	1.12	1.00	11.7	
Vinyl acetate	Qual		0.0430		4.79	2.50	91.8	
2-Chloro-1,3-butadiene	Ave	0.3236	0.3339		1.03	1.00	3.2	
Isopropyl ether	Ave	0.5771	0.8626		1.87	1.25	49.5	
Tert-butyl ethyl ether	Ave	0.2945	0.4683		1.99	1.25	59.0	
2,2-Dichloropropane	Ave	0.2752	0.3080		1.12	1.00	11.9	
cis-1,2-Dichloroethene	Ave	0.2792	0.3171	0.1000	1.14	1.00	13.6	
2-Butanone (MEK)	Ave	0.0266	0.0946	0.0200	17.8	5.00	255.4	
Propionitrile	Ave	0.0231	0.1120		60.5	12.5	384.2	
Ethyl acetate	Ave	0.1601	0.3947		4.93	2.00	146.5	
Methacrylonitrile	Ave	0.0823	0.2311		28.1	10.0	180.8	
Chlorobromomethane	Ave	0.1948	0.2346		1.20	1.00	20.5	
Chloroform	Ave	0.4199	0.5502	0.2000	1.31	1.00	31.0	
1,1,1-Trichloroethane	Ave	0.3754	0.4050	0.1000	1.08	1.00	7.9	
Cyclohexane	Ave	0.3598	0.3392	0.1000	0.943	1.00	-5.7	

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 580-335064/6 Calibration Date: 08/07/2020 14:19  
 Instrument ID: TAC119 Calib Start Date: 07/14/2020 15:42  
 GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 07/14/2020 18:47  
 Lab File ID: 08072020\_006.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
Carbon tetrachloride	Ave	0.3600	0.3762	0.1000	1.05	1.00	4.5	
1,1-Dichloropropene	Ave	0.3322	0.3402		1.02	1.00	2.4	
Benzene	Ave	1.000	1.192	0.5000	1.19	1.00	19.2	
Isobutyl alcohol	Ave	0.3326	2.685		202	25.0	707.3	
1,2-Dichloroethane	Ave	0.2816	0.4516	0.1000	1.60	1.00	60.3	
Tert-amyl methyl ether	Ave	0.5940	1.512		3.18	1.25	154.5	
n-Heptane	Ave	0.3071	0.3051		0.993	1.00	-0.7	
Tetrahydrofuran	Ave	0.0402	0.0371		1.84	2.00	-7.8	
Trichloroethene	Ave	0.3280	0.4058	0.2000	1.24	1.00	23.7	
Ethyl acrylate	Ave	0.2169	0.8886		4.10	1.00	309.7	
Methylcyclohexane	Ave	0.4591	0.4590	0.1000	1.00	1.00	-0.0	
n-Butanol	Ave	0.0039	0.0047			25.0	22.7	
1,2-Dichloropropane	Ave	0.2173	0.3676	0.1000	1.69	1.00	69.1	
Dibromomethane	Ave	0.2136	0.4344		2.03	1.00	103.4	
Methyl methacrylate	Ave	0.1404	0.5329		7.59	2.00	279.6	
Dichlorobromomethane	Ave	0.3135	0.7854	0.2000	2.51	1.00	150.5	
2-Nitropropane	Ave	0.0555	0.2614		9.41	2.00	370.6	
2-Chloroethyl vinyl ether	Lin1		0.3549		3.35	1.00	234.7	
cis-1,3-Dichloropropene	Ave	0.4167	1.000	0.2000	2.40	1.00	140.1	
4-Methyl-2-pentanone (MIBK)	Ave	0.0897	0.4891	0.0600	27.3	5.00	445.5	
Toluene	Ave	1.385	2.235	0.4000	1.61	1.00	61.3	
n-Butyl acetate	Ave	0.0303	0.1766		5.84	1.00	483.8	
trans-1,3-Dichloropropene	Ave	0.3734	1.266	0.1000	3.39	1.00	239.1	
Ethyl methacrylate	Ave	0.2677	1.399		5.23	1.00	422.7	
1,1,2-Trichloroethane	Ave	0.2543	1.099	0.1000	4.32	1.00	332.2	
Tetrachloroethene	Ave	0.6354	0.8986	0.2000	1.41	1.00	41.4	
1,3-Dichloropropane	Ave	0.3883	1.351		3.48	1.00	247.9	
2-Hexanone	Ave	0.0883	0.5458	0.0600	30.9	5.00	518.2	
Chlorodibromomethane	Ave	0.3119	1.385	0.1000	4.44	1.00	343.9	
Ethylene Dibromide	Ave	0.2510	0.8480	0.1000	3.38	1.00	237.8	
Chlorobenzene	Ave	0.9356	3.185	0.5000	3.40	1.00	240.4	
1,1,1,2-Tetrachloroethane	Ave	0.3352	1.477		4.41	1.00	340.6	
Ethylbenzene	Ave	1.492	4.102	0.1000	2.75	1.00	175.0	
m-Xylene & p-Xylene	Ave	1.111	3.314	0.1000	2.98	1.00	198.4	
o-Xylene	Ave	1.092	3.862	0.3000	3.54	1.00	253.7	
Styrene	Ave	0.9078	3.845	0.3000	4.24	1.00	323.6	
Bromoform	Ave	0.2350	1.462	0.1000	6.22	1.00	522.2	
Isopropylbenzene	Ave	1.469	5.471	0.1000	3.72	1.00	272.4	
1,1,2,2-Tetrachloroethane	Ave	0.5092	3.478	0.3000	6.83	1.00	583.1	
Bromobenzene	Ave	0.7885	3.990		5.06	1.00	406.0	
trans-1,4-Dichloro-2-butene	Ave	0.1365	0.8875		6.50	1.00	550.0	

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 580-335064/6 Calibration Date: 08/07/2020 14:19  
 Instrument ID: TAC119 Calib Start Date: 07/14/2020 15:42  
 GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 07/14/2020 18:47  
 Lab File ID: 08072020\_006.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
1,2,3-Trichloropropane	Ave	0.1853	1.243		6.71	1.00	570.9	
N-Propylbenzene	Ave	2.957	12.22		4.13	1.00	313.4	
2-Chlorotoluene	Ave	0.6898	3.122		4.53	1.00	352.7	
1,3,5-Trimethylbenzene	Ave	2.101	9.500		4.52	1.00	352.2	
4-Chlorotoluene	Ave	0.7012	3.658		5.22	1.00	421.7	
tert-Butylbenzene	Ave	1.970	9.714		4.93	1.00	393.1	
1,2,4-Trimethylbenzene	Qual		11.46		4.79	1.00	379.2	
sec-Butylbenzene	Ave	2.849	14.13		4.96	1.00	396.0	
1,3-Dichlorobenzene	Ave	1.471	8.519	0.6000	5.79	1.00	479.3	
4-Isopropyltoluene	Ave	2.539	12.92		5.09	1.00	408.7	
1,4-Dichlorobenzene	Ave	1.480	9.009	0.5000	6.09	1.00	508.7	
1,2,3-Trimethylbenzene	Ave	2.119	12.53		5.91	1.00	491.3	
Benzyl chloride	Ave	0.2306	1.578		6.84	1.00	584.0	
n-Butylbenzene	Ave	0.6810	3.858		5.67	1.00	466.5	
1,2-Dichlorobenzene	Ave	1.365	9.449	0.4000	6.92	1.00	592.2	
1,2-Dibromo-3-Chloropropane	Ave	0.1308	0.9840	0.0500	7.53	1.00	652.6	
1,3,5-Trichlorobenzene	Ave	1.207	8.435		6.99	1.00	598.9	
1,2,4-Trichlorobenzene	Ave	0.9857	7.816	0.2000	7.93	1.00	693.0	
Hexachlorobutadiene	Ave	0.7067	5.312		7.52	1.00	651.7	
Naphthalene	Ave	1.631	16.62		10.2	1.00	918.9	
1,2,3-Trichlorobenzene	Ave	0.8759	7.569		8.64	1.00	764.1	
Dibromofluoromethane (Surr)	Ave	0.2471	0.2473		10.0	10.0	0.0	
1,2-Dichloroethane-d4 (Surr)	Ave	0.2276	0.2298		10.1	10.0	1.0	
Toluene-d8 (Surr)	Ave	1.192	1.166		9.78	10.0	-2.2	
4-Bromofluorobenzene (Surr)	Ave	0.4781	0.5021		10.5	10.0	5.0	



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
 Lims ID: ccvl  
 Client ID:  
 Sample Type: CCVL  
 Inject. Date: 07-Aug-2020 14:19:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ccvl  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 08:51:37 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc Date: 10-Aug-2020 08:51:36

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.709	1.715	-0.006	41	2026	1.00	1.16	M
4 Chloromethane	50	1.941	1.947	-0.006	45	2280	1.00	0.8704	
5 Vinyl chloride	62	2.063	2.075	-0.012	25	1940	1.00	0.7061	
6 Butadiene	54	2.117	2.130	-0.013	63	1882	1.00	0.9189	M
7 Bromomethane	94	2.477	2.483	-0.006	43	1856	1.00	0.7961	Ma
8 Chloroethane	66	2.611	2.605	0.006	34	400	1.00	0.6698	
10 Dichlorofluoromethane	67	2.928	2.928	0.000	25	4291	1.00	0.9038	M
14 Trichlorofluoromethane	101	2.916	2.965	-0.049	39	4223	1.00	0.9013	M
11 3-Chloro-1-propene	76	2.977	2.977	0.000	28	336	1.00	1.32	
17 Ethyl ether	59	3.343	3.337	0.006	73	2262	1.00	1.00	
12 Acrolein	56	3.520	3.519	0.001	69	5660	6.00	13.9	
19 1,1-Dichloroethene	96	3.690	3.702	-0.012	64	2683	1.00	0.9537	M
16 Acetone	43	3.751	3.745	0.006	92	13024	5.00	14.5	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.751	3.751	0.000	0	3192	1.00	0.9795	M
22 Iodomethane	142	3.904	3.910	-0.006	69	5590	1.00	0.9576	M
26 Carbon disulfide	76	4.032	4.038	-0.006	55	7764	1.00	0.8537	M
S 2 Xylenes, Total	100				0		2.00	6.52	
15 Isopropyl alcohol	45	4.050	4.044	0.006	96	14705	10.0	100.1	M
13 Acetonitrile	40	4.227	4.208	0.019	86	5815	12.5	69.9	M
24 Methyl acetate	43	4.312	4.306	0.006	92	5817	2.00	2.83	M
23 Methylene Chloride	84	4.556	4.562	-0.006	61	8504	1.00	2.04	
* 18 TBA-d9 (IS)	65	4.654	4.647	0.007	0	67984	200.0	200.0	
20 2-Methyl-2-propanol	59	4.818	4.812	0.006	97	24754	10.0	83.2	
21 Acrylonitrile	53	4.995	4.977	0.018	96	17496	10.0	20.9	M
27 trans-1,2-Dichloroethene	96	5.062	5.068	-0.006	48	3330	1.00	0.8816	
28 Methyl tert-butyl ether	73	5.092	5.074	0.018	78	12306	1.00	1.37	
34 Hexane	57	5.647	5.647	0.000	79	4623	1.00	0.9557	
30 1,1-Dichloroethane	63	5.903	5.903	0.000	38	6331	1.00	1.12	
31 Vinyl acetate	86	5.989	5.982	0.007	95	1631	2.50	4.79	
32 2-Chloro-1,3-butadiene	53	6.043	6.037	0.006	32	5070	1.00	1.03	
35 Isopropyl ether	45	6.056	6.049	0.007	51	16372	1.25	1.87	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	94	8889	1.25	1.99	
43 2,2-Dichloropropane	77	6.909	6.915	-0.006	50	4676	1.00	1.12	M
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	43	4815	1.00	1.14	
33 2-Butanone (MEK)	72	6.940	6.927	0.013	95	7179	5.00	17.8	
29 Propionitrile	54	7.019	7.007	0.012	96	21263	12.5	60.5	
38 Ethyl acetate	43	7.055	7.055	0.000	94	11985	2.00	4.93	
36 Methacrylonitrile	67	7.263	7.263	0.000	87	35087	10.0	28.1	
39 Chlorobromomethane	130	7.299	7.305	-0.006	46	3562	1.00	1.20	
40 Chloroform	83	7.501	7.507	-0.007	63	8354	1.00	1.31	
48 1,1,1-Trichloroethane	97	7.702	7.708	-0.006	73	6149	1.00	1.08	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	58	37549	10.0	10.0	
51 Cyclohexane	84	7.793	7.799	-0.006	63	5150	1.00	0.9428	
52 Carbon tetrachloride	117	7.927	7.927	0.000	62	5713	1.00	1.05	
50 1,1-Dichloropropene	75	7.939	7.939	0.000	73	5166	1.00	1.02	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	34886	10.0	10.1	
53 Benzene	78	8.196	8.195	0.001	86	18102	1.00	1.19	
42 Isobutyl alcohol	43	8.202	8.202	0.000	86	22816	25.0	201.8	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	78	6857	1.00	1.60	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	95	28692	1.25	3.18	
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	99	151844	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.628	0.006	14	1127	2.00	1.84	
56 n-Heptane	43	8.628	8.634	-0.006	43	4632	1.00	0.99	
61 Trichloroethene	132	9.019	9.025	-0.007	80	6161	1.00	1.24	
57 Ethyl acrylate	55	9.153	9.153	0.000	92	13493	1.00	4.10	
49 n-Butanol	56	9.268	9.262	0.006	38	1794	25.0	30.7	
66 Methylcyclohexane	83	9.268	9.262	0.006	84	6970	1.00	1.00	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	76	5581	1.00	1.69	
59 Dibromomethane	174	9.390	9.390	0.000	44	6596	1.00	2.03	
63 Methyl methacrylate	69	9.396	9.396	0.000	78	16182	2.00	7.59	
62 Dichlorobromomethane	83	9.592	9.591	0.001	93	11926	1.00	2.51	
58 2-Nitropropane	43	9.799	9.805	-0.006	93	7938	2.00	9.41	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	83	4791	1.00	3.35	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	81	13505	1.00	2.40	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	94	33012	5.00	27.3	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	92	157354	10.0	9.78	
74 Toluene	91	10.341	10.341	0.000	95	30168	1.00	1.61	
70 n-Butyl acetate	43	10.476	10.475	0.001	62	2384	1.00	5.84	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	90	17097	1.00	3.39	
73 Ethyl methacrylate	69	10.622	10.622	0.000	80	18889	1.00	5.23	
71 1,1,2-Trichloroethane	97	10.738	10.744	-0.006	80	14837	1.00	4.32	
79 Tetrachloroethene	164	10.817	10.817	0.000	83	7043	1.00	1.41	
75 1,3-Dichloropropane	76	10.878	10.884	-0.006	85	18236	1.00	3.48	
76 2-Hexanone	58	10.933	10.933	0.000	94	36838	5.00	30.9	
77 Chlorodibromomethane	129	11.079	11.079	0.000	85	18691	1.00	4.44	
78 Ethylene Dibromide	107	11.171	11.170	0.001	92	11447	1.00	3.38	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	81	134995	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	97	42991	1.00	3.40	
80 1,1,1,2-Tetrachloroethane	131	11.683	11.683	0.000	52	19938	1.00	4.41	
83 Ethylbenzene	91	11.683	11.683	0.000	98	55381	1.00	2.75	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	44740	1.00	2.98	
88 o-Xylene	91	12.115	12.115	0.000	93	52138	1.00	3.54	
86 Styrene	104	12.128	12.128	0.000	95	51905	1.00	4.24	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	97	19736	1.00	6.22	
91 Isopropylbenzene	105	12.414	12.414	0.000	94	73862	1.00	3.72	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.561	12.560	0.000	96	67784	10.0	10.5	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	95	27261	1.00	6.83	
93 Bromobenzene	156	12.682	12.682	0.000	82	31275	1.00	5.06	
89 trans-1,4-Dichloro-2-butene	53	12.689	12.688	0.001	55	6956	1.00	6.50	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	38	9743	1.00	6.71	
94 N-Propylbenzene	91	12.749	12.749	0.000	76	95811	1.00	4.13	
95 2-Chlorotoluene	126	12.829	12.829	0.000	97	24474	1.00	4.53	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	95	74460	1.00	4.52	
96 4-Chlorotoluene	126	12.926	12.926	0.000	92	28675	1.00	5.22	
98 tert-Butylbenzene	119	13.152	13.152	0.000	89	76136	1.00	4.93	
99 1,2,4-Trimethylbenzene	105	13.195	13.194	0.001	54	89822	1.00	4.79	
100 sec-Butylbenzene	105	13.323	13.322	0.001	91	110752	1.00	4.96	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	96	66775	1.00	5.79	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	96	101247	1.00	5.09	
* 103 1,4-Dichlorobenzene-d4	152	13.487	13.493	-0.006	83	78381	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.512	13.511	0.001	95	70615	1.00	6.09	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	93	98216	1.00	5.91	
101 Benzyl chloride	126	13.597	13.591	0.006	95	12365	1.00	6.84	
108 n-Butylbenzene	134	13.761	13.761	0.000	96	30237	1.00	5.67	
107 1,2-Dichlorobenzene	146	13.798	13.792	0.006	93	74066	1.00	6.92	
109 1,2-Dibromo-3-Chloropropane	157	14.402	14.402	0.000	82	7713	1.00	7.53	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	95	66114	1.00	6.99	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	89	61263	1.00	7.93	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	90	41637	1.00	7.52	
112 Naphthalene	128	15.249	15.249	0.000	96	130237	1.00	10.2	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	93	59325	1.00	8.64	
\$ 118 BFB	95	12.561	12.560	0.000	96	57545	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 0.10

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D

Injection Date: 07-Aug-2020 14:19:30

Instrument ID: TAC119

Lims ID: ccvl

Client ID:

Operator ID: cjb

ALS Bottle#: 6

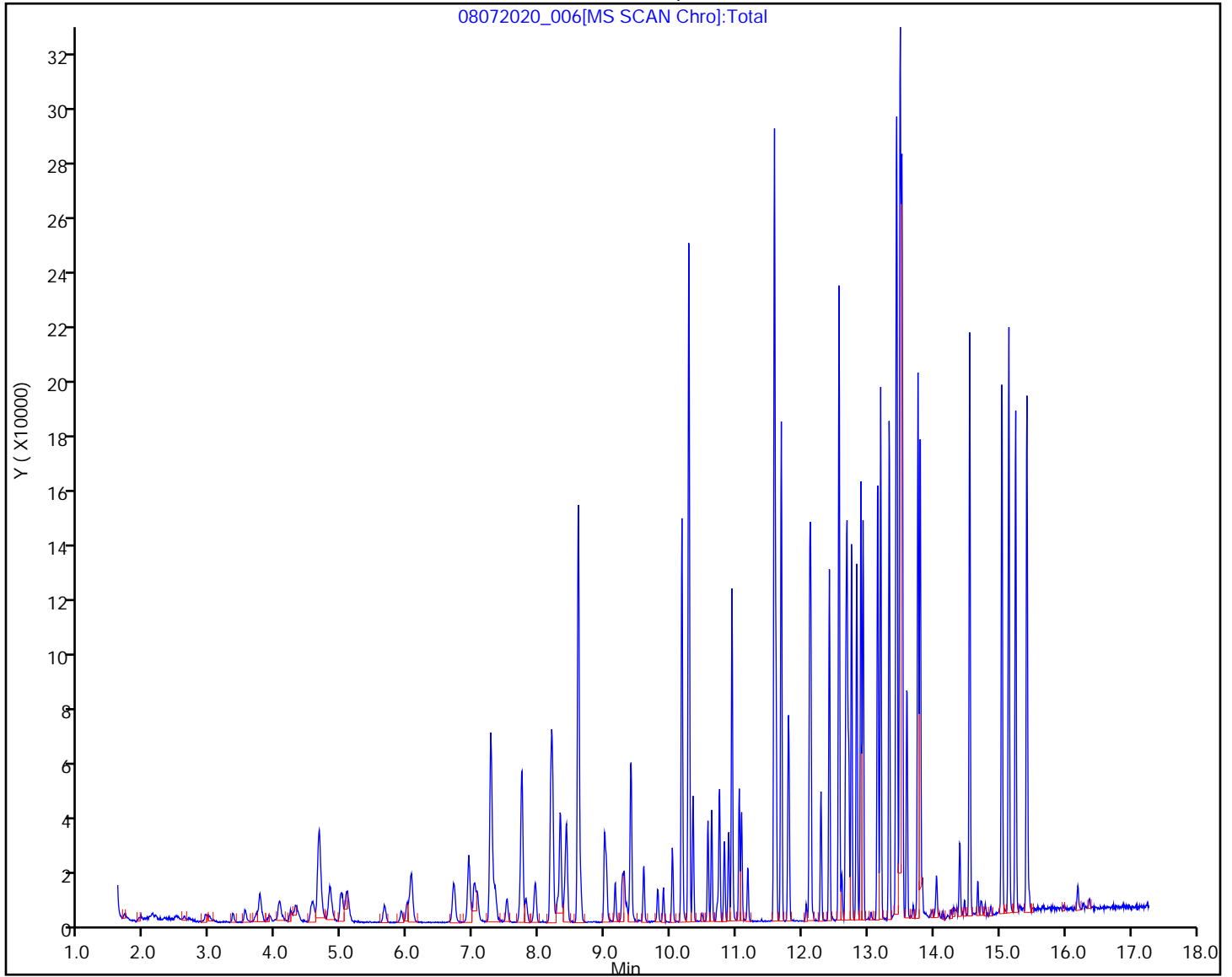
Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

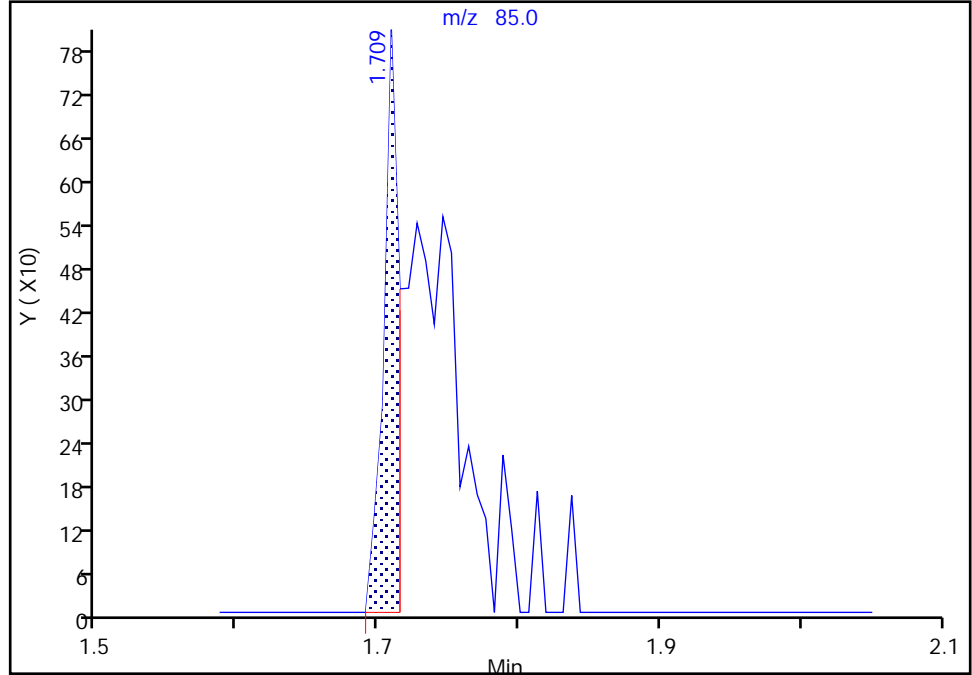
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

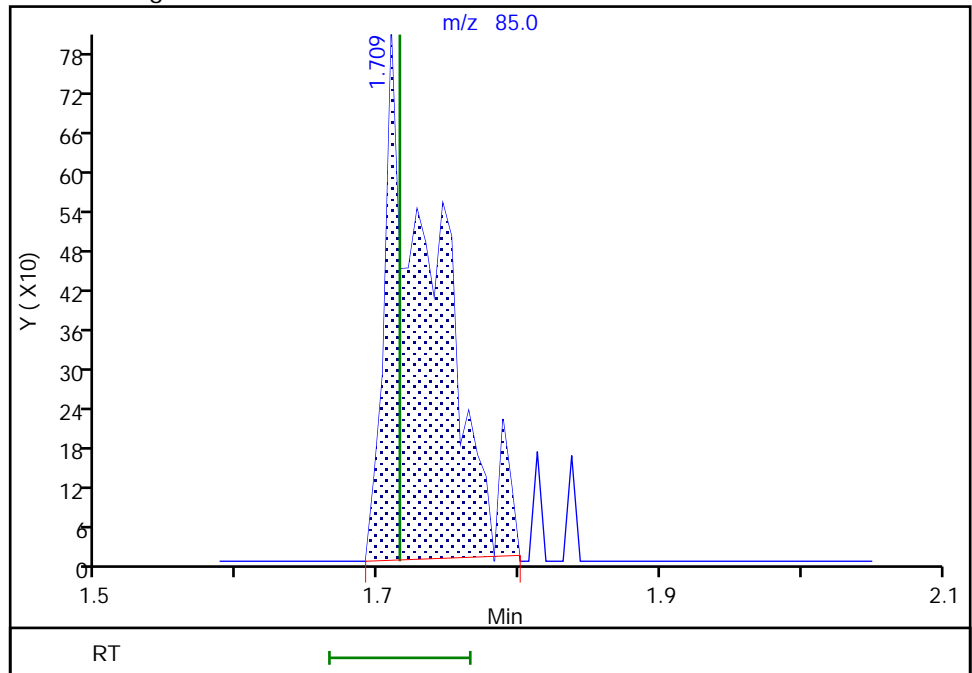
RT: 1.71  
Area: 612  
Amount: 0.350426  
Amount Units: ug/L

Processing Integration Results



RT: 1.71  
Area: 2026  
Amount: 1.160071  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 07-Aug-2020 16:02:24  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

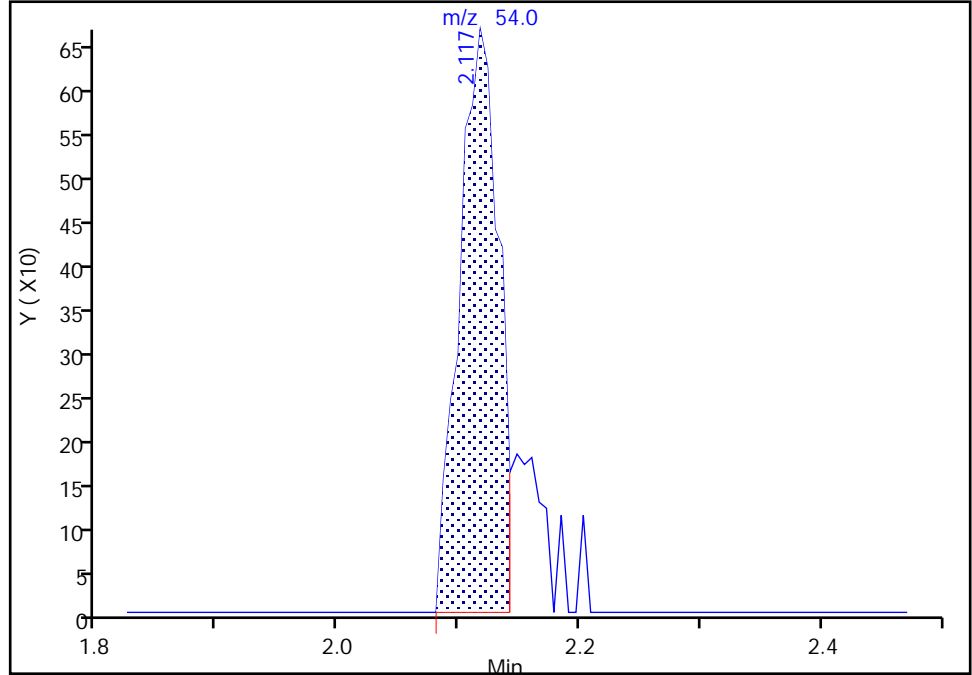
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

6 Butadiene, CAS: 106-99-0

Signal: 1

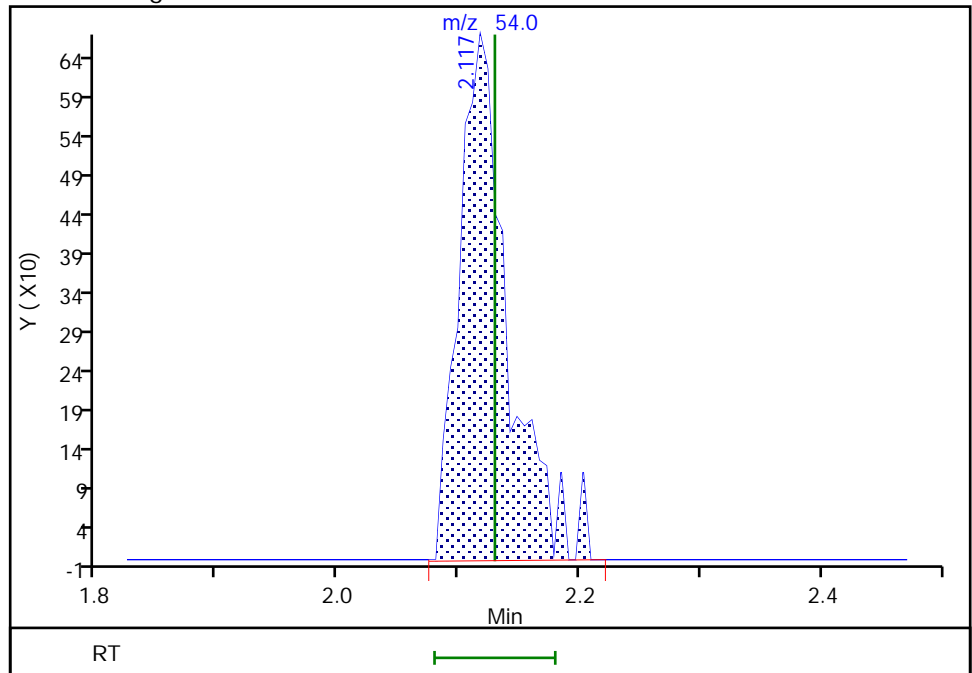
RT: 2.12  
Area: 1509  
Amount: 0.736747  
Amount Units: ug/L

Processing Integration Results



RT: 2.12  
Area: 1882  
Amount: 0.918859  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 07-Aug-2020 16:02:17  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

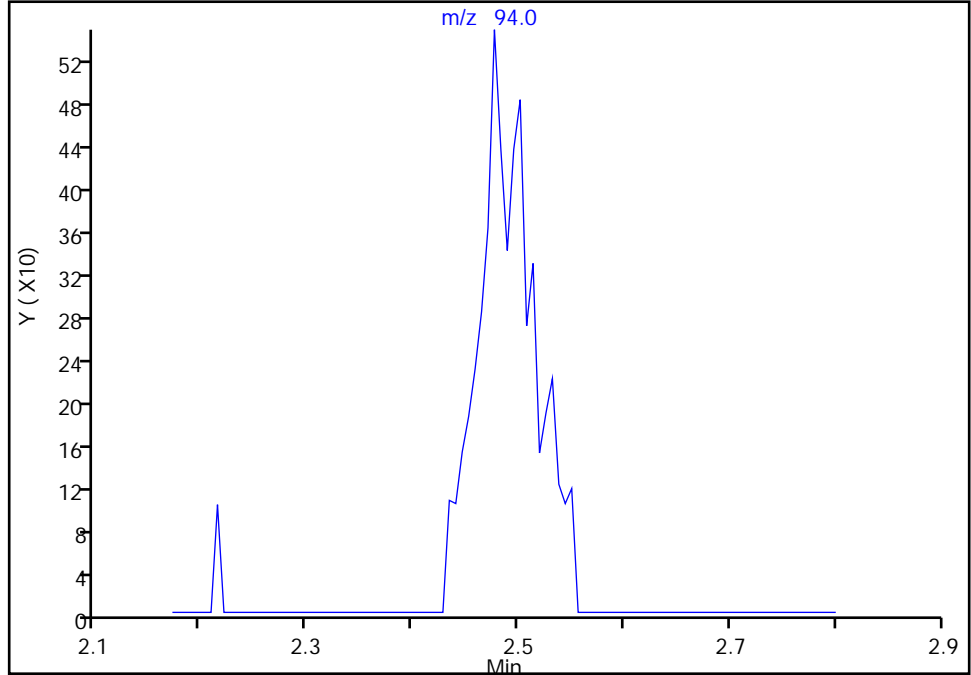
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

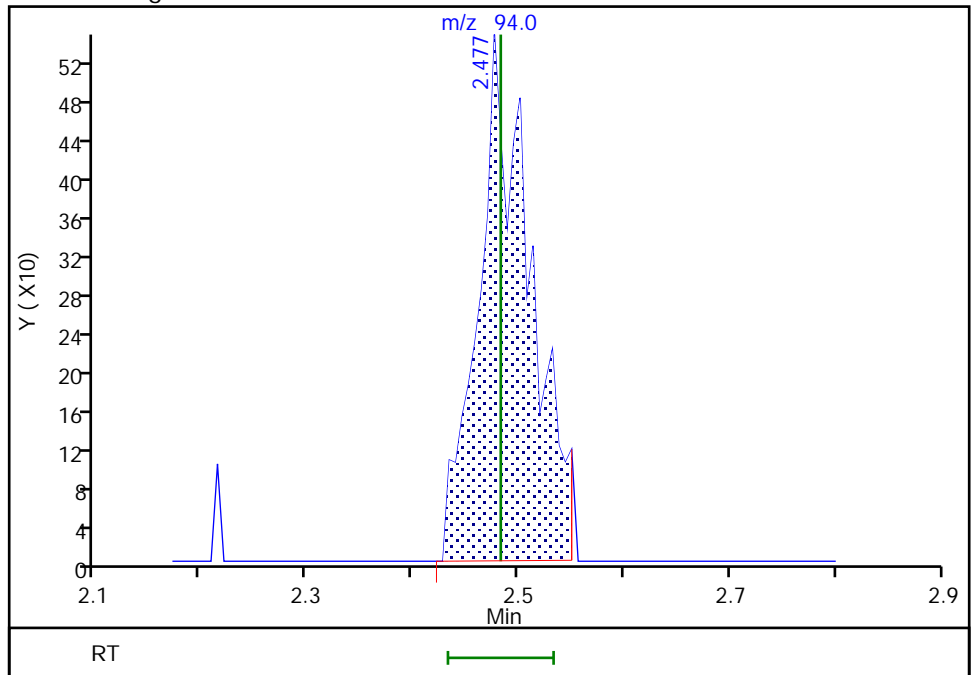
Not Detected  
Expected RT: 2.48

Processing Integration Results



Manual Integration Results

RT: 2.48  
Area: 1856  
Amount: 0.796089  
Amount Units: ug/L



Reviewer: bohnc, 07-Aug-2020 16:02:12  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

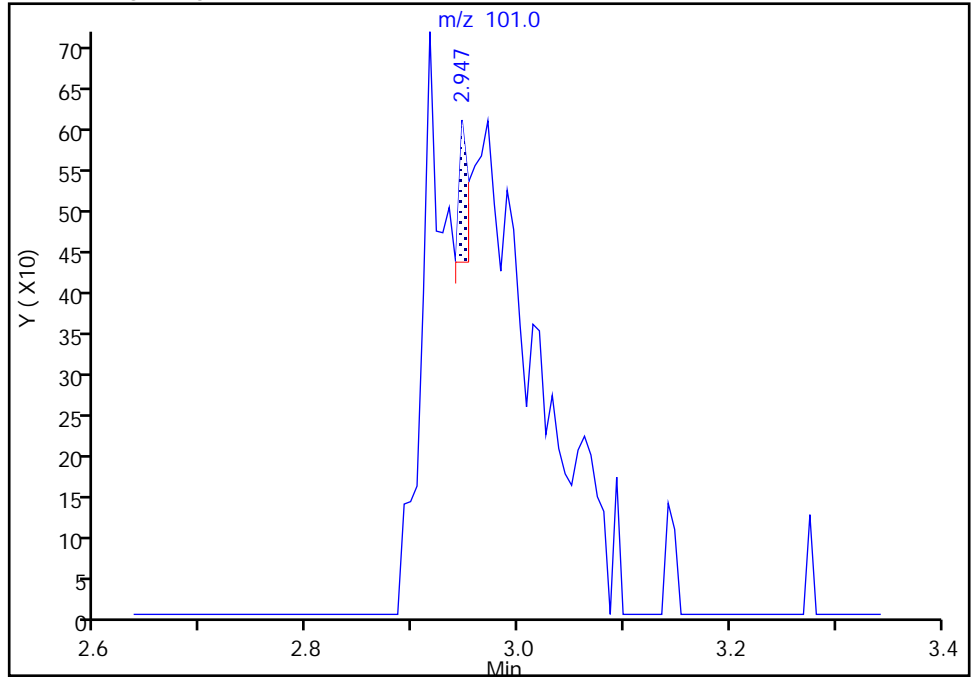
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

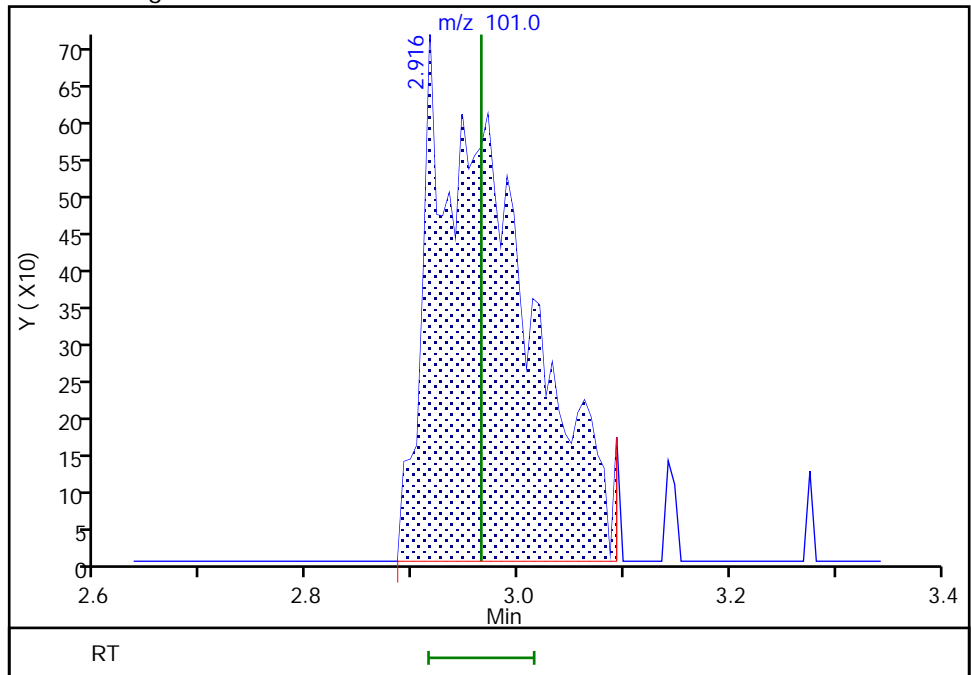
RT: 2.95  
Area: 100  
Amount: 0.021343  
Amount Units: ug/L

Processing Integration Results



RT: 2.92  
Area: 4223  
Amount: 0.901294  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 07-Aug-2020 16:02:32  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 365 of 425



Eurofins TestAmerica, Seattle

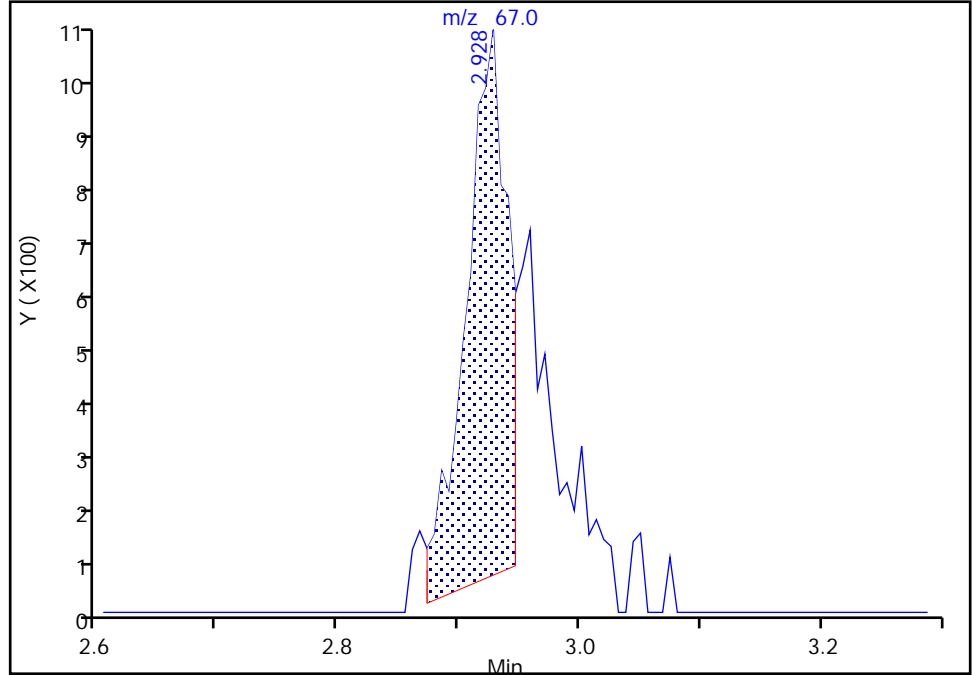
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

10 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

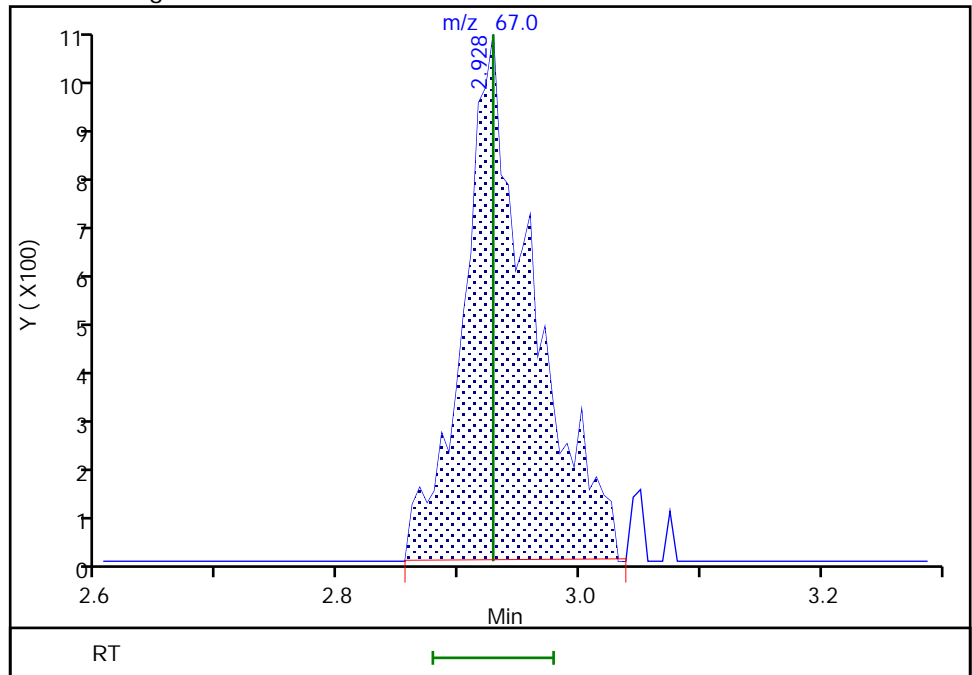
RT: 2.93  
Area: 2473  
Amount: 0.520883  
Amount Units: ug/L

Processing Integration Results



RT: 2.93  
Area: 4291  
Amount: 0.903804  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 07-Aug-2020 16:02:37  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 366 of 425

Eurofins TestAmerica, Seattle

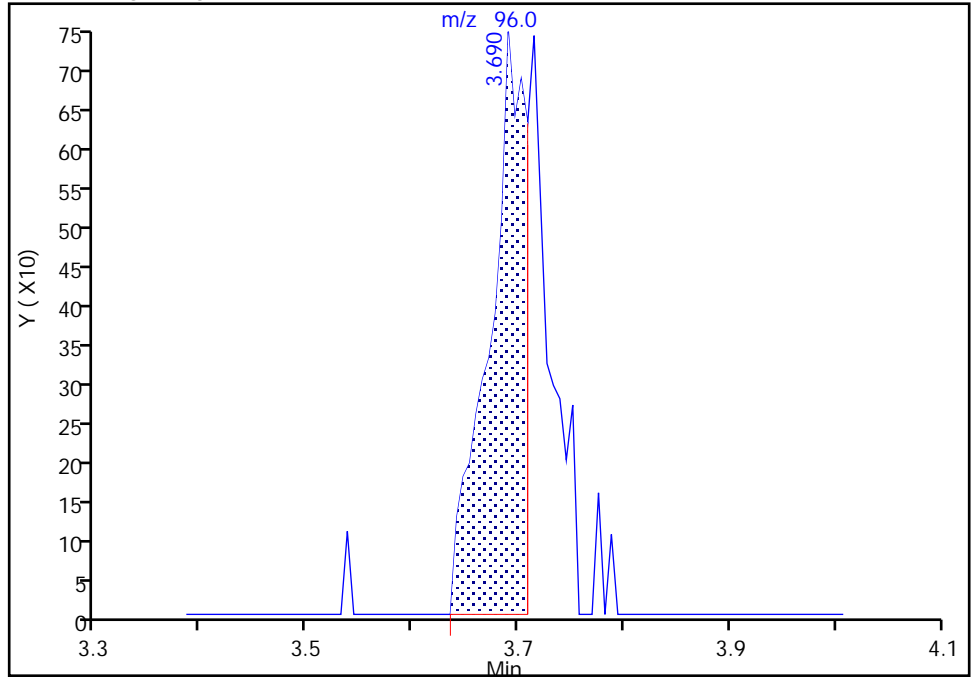
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

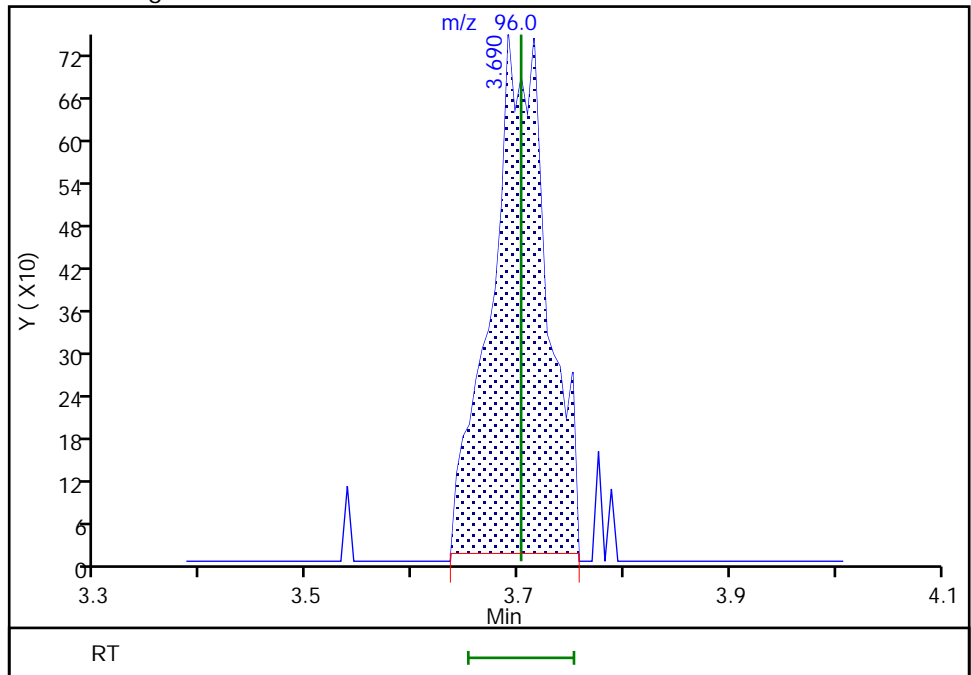
RT: 3.69  
Area: 1810  
Amount: 0.643417  
Amount Units: ug/L

Processing Integration Results



RT: 3.69  
Area: 2683  
Amount: 0.953750  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 08:50:24  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

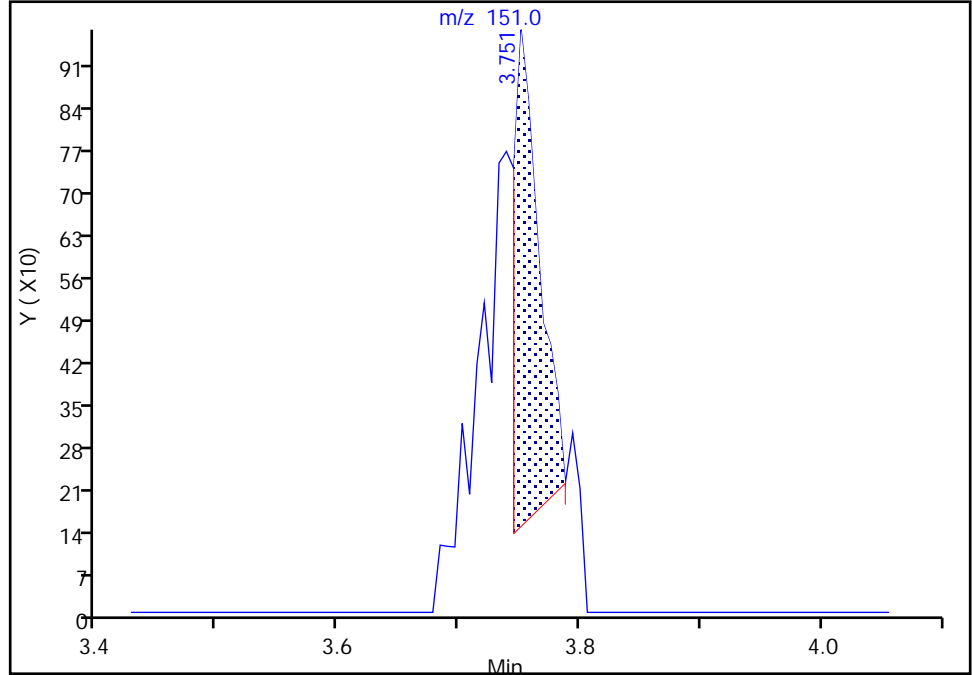
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

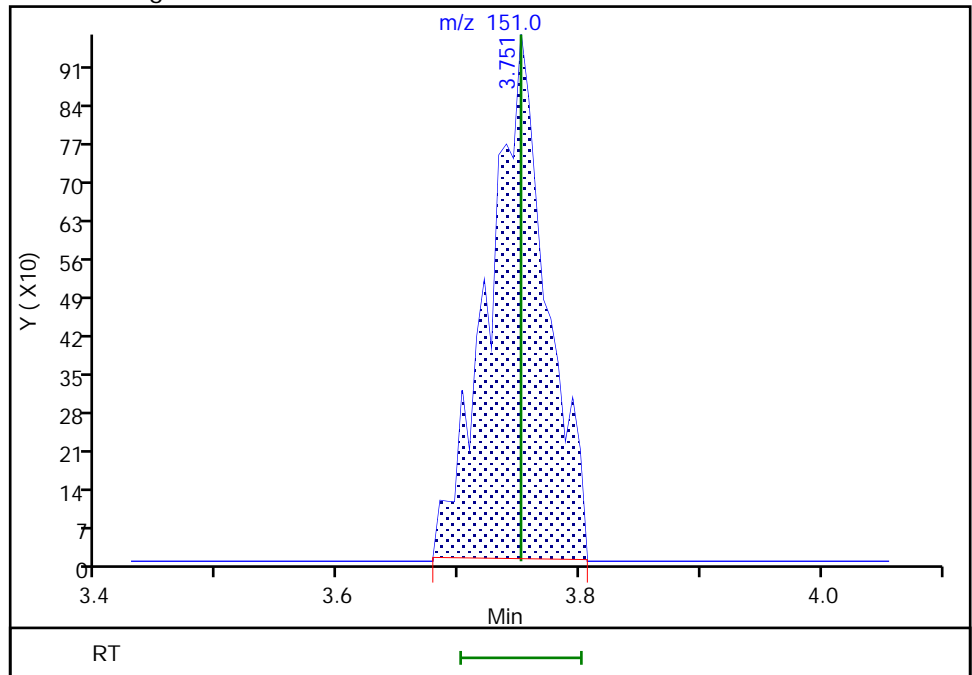
RT: 3.75  
Area: 1216  
Amount: 0.373126  
Amount Units: ug/L

Processing Integration Results



RT: 3.75  
Area: 3192  
Amount: 0.979455  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 08:50:31  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

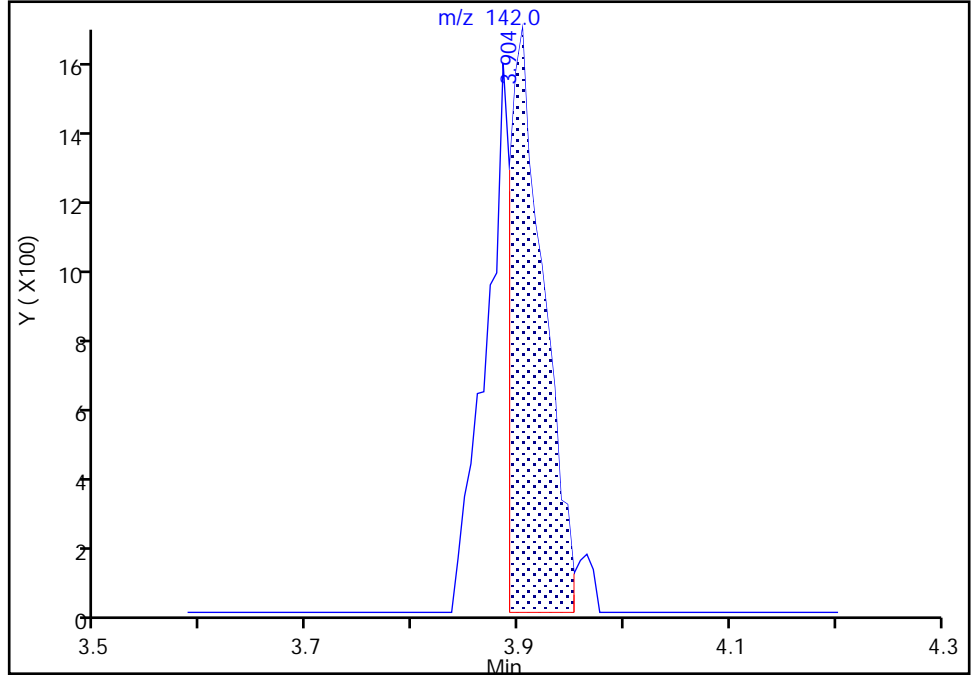
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

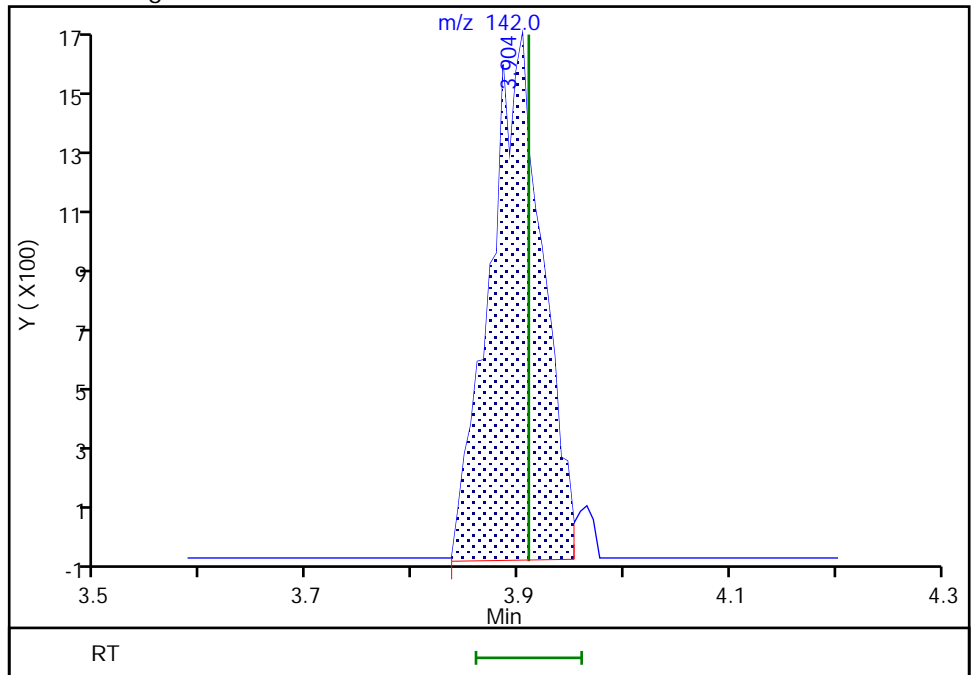
RT: 3.90  
Area: 3552  
Amount: 0.608475  
Amount Units: ug/L

Processing Integration Results



RT: 3.90  
Area: 5590  
Amount: 0.957595  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 08:50:37  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

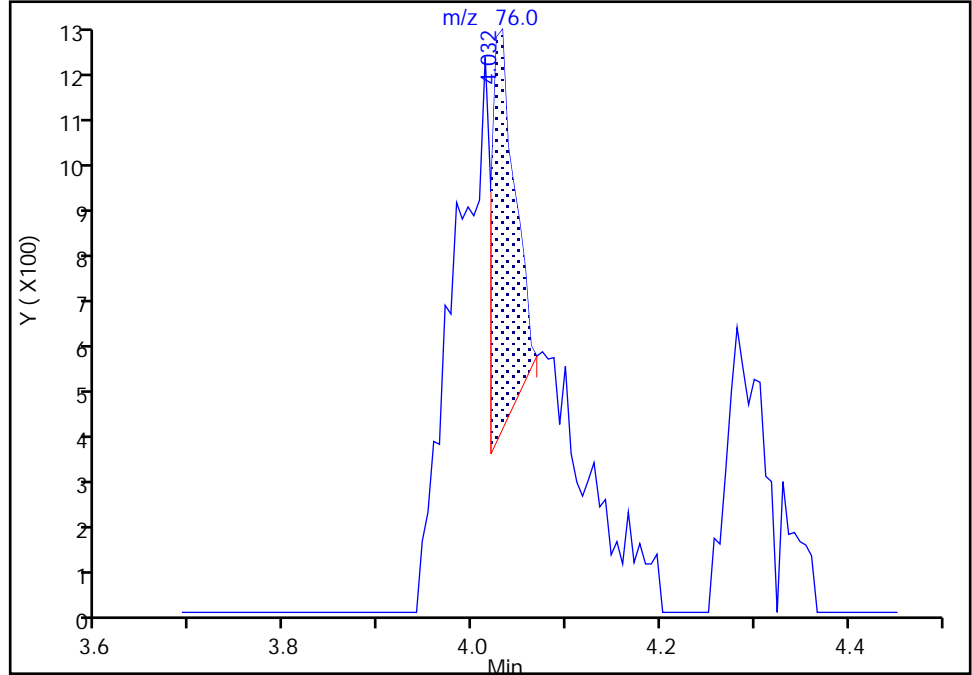
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

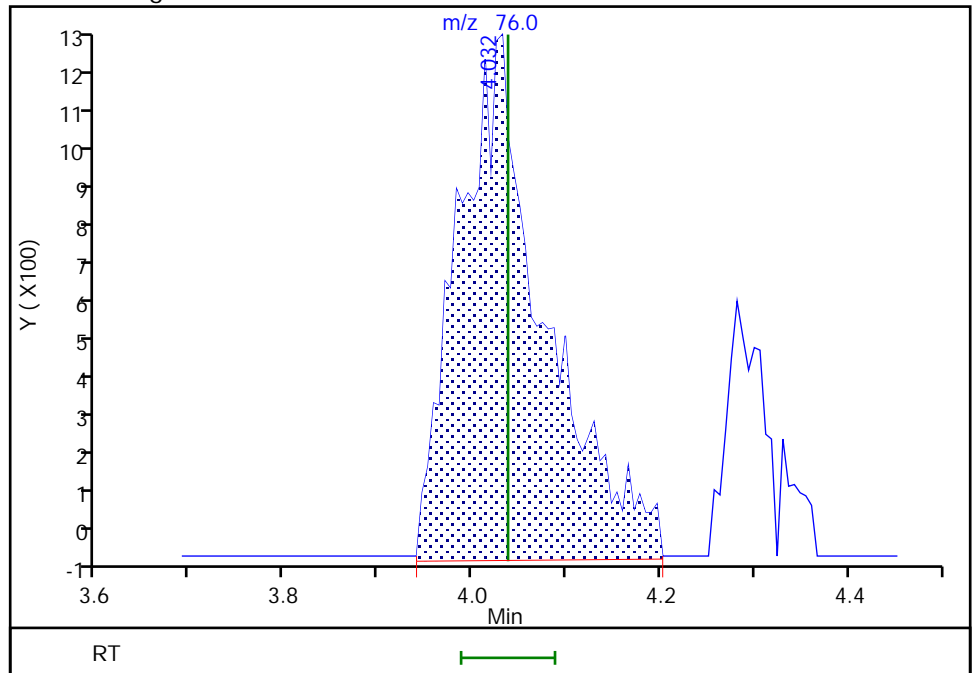
RT: 4.03  
Area: 1408  
Amount: 0.154813  
Amount Units: ug/L

Processing Integration Results



RT: 4.03  
Area: 7764  
Amount: 0.853669  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 08:50:42  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

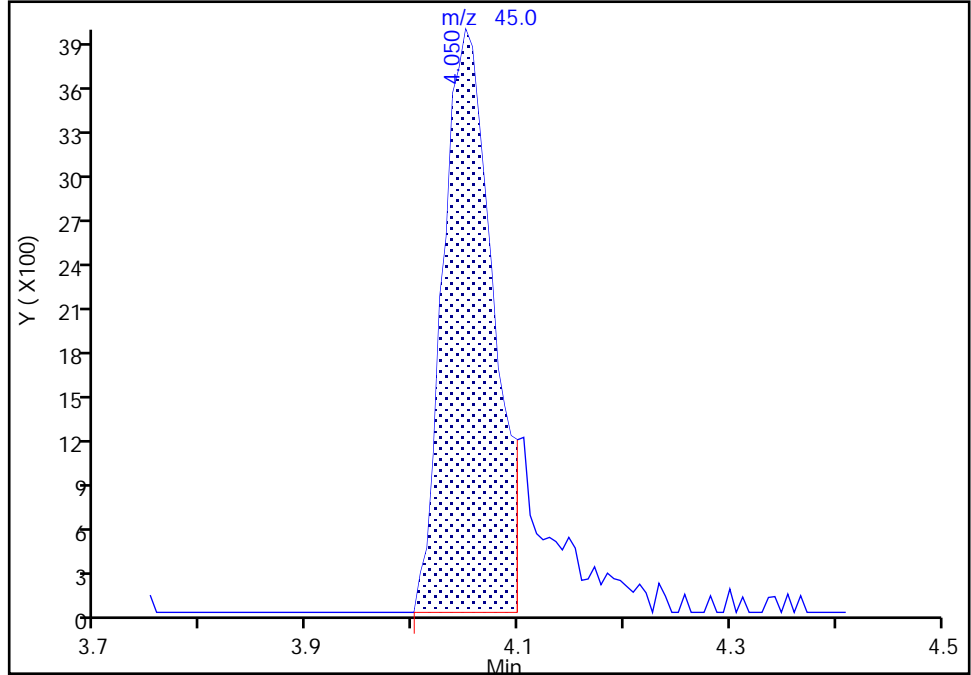
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

15 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

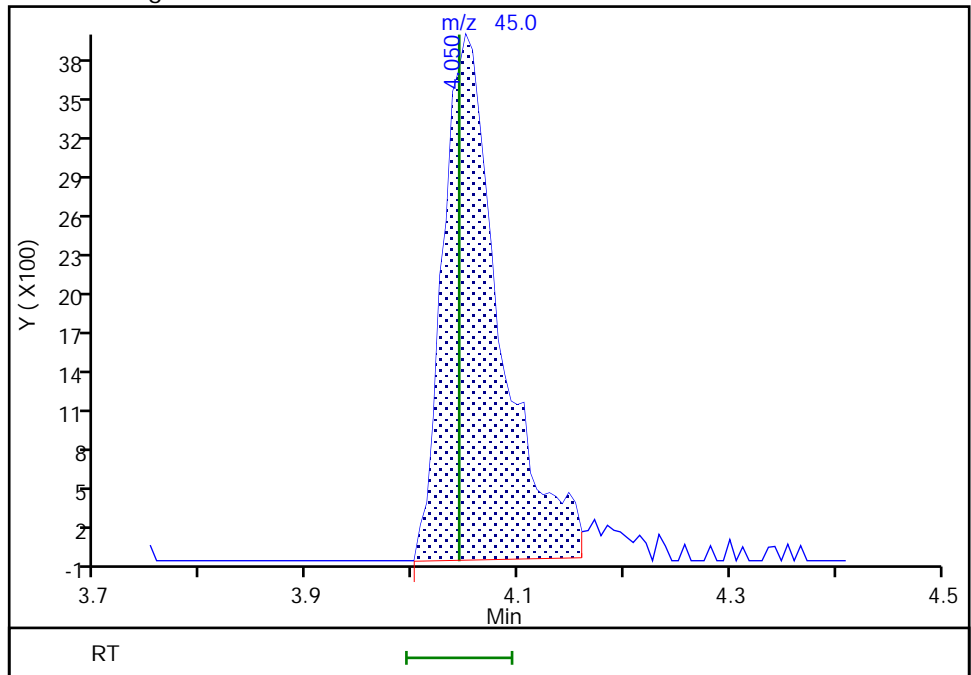
RT: 4.05  
Area: 12824  
Amount: 87.279394  
Amount Units: ug/L

Processing Integration Results



RT: 4.05  
Area: 14705  
Amount: 100.0814  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 08:50:46  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

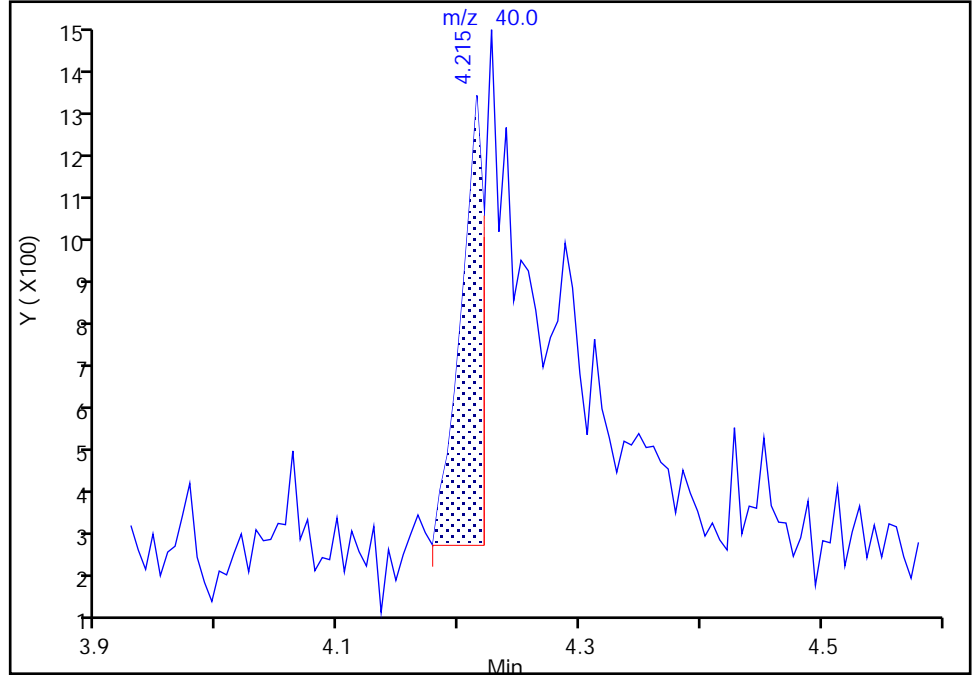
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

13 Acetonitrile, CAS: 75-05-8

Signal: 1

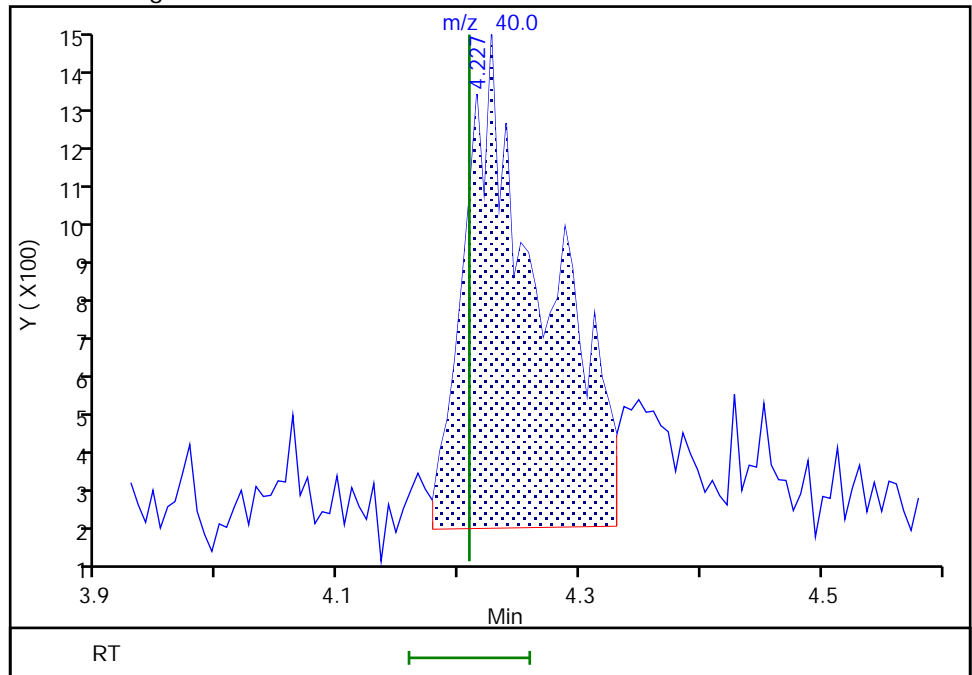
RT: 4.21  
Area: 1442  
Amount: 24.882366  
Amount Units: ug/L

Processing Integration Results



RT: 4.23  
Area: 5815  
Amount: 69.933445  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 08:50:51  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

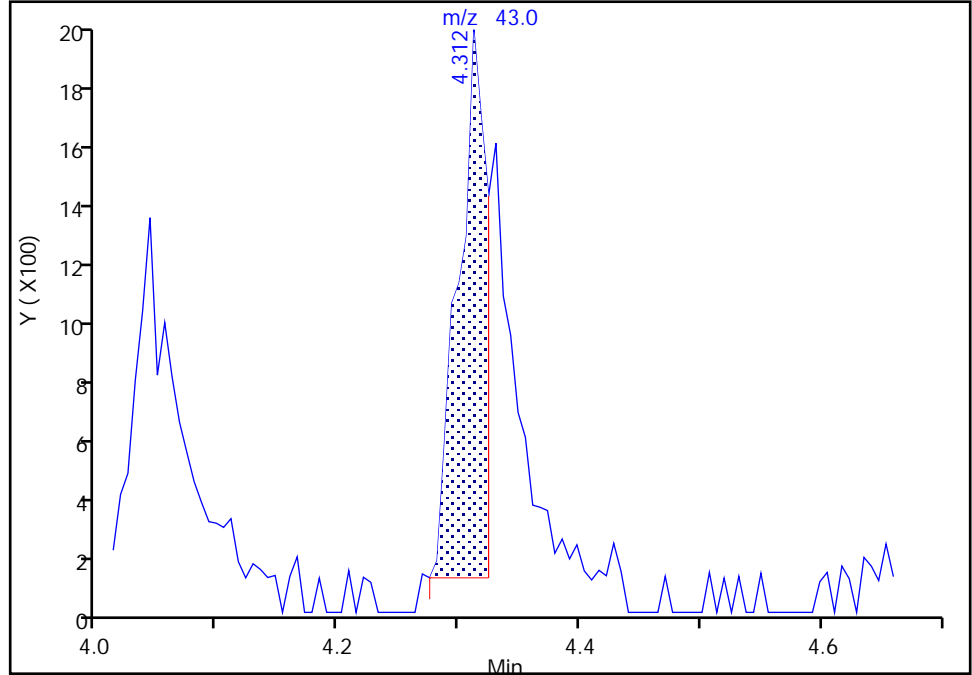
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Signal: 1

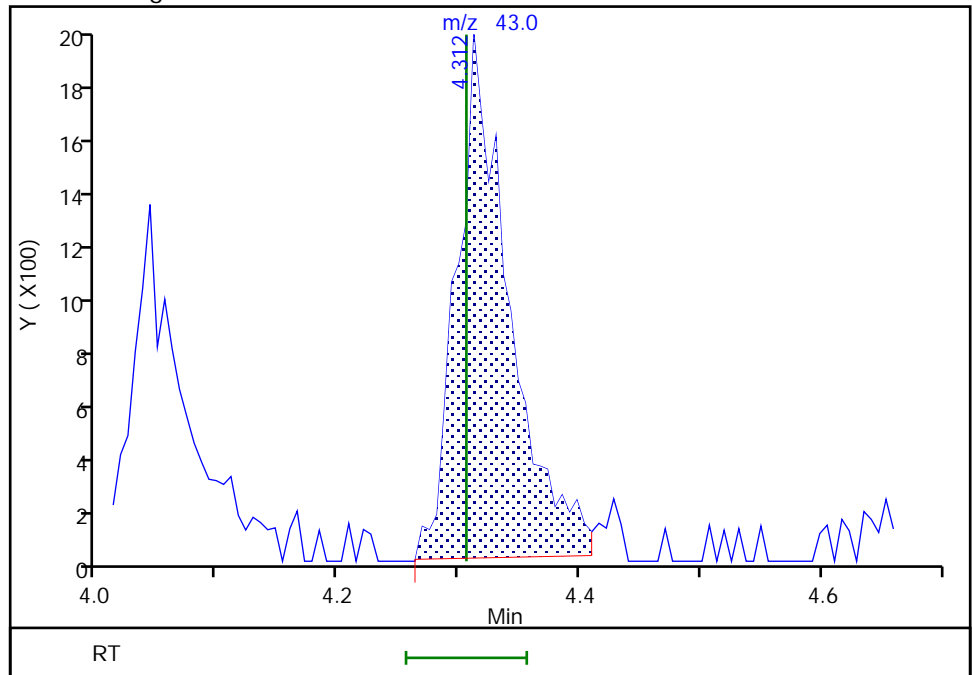
RT: 4.31  
Area: 2988  
Amount: 1.455664  
Amount Units: ug/L

Processing Integration Results



RT: 4.31  
Area: 5817  
Amount: 2.833869  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 08:50:55  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

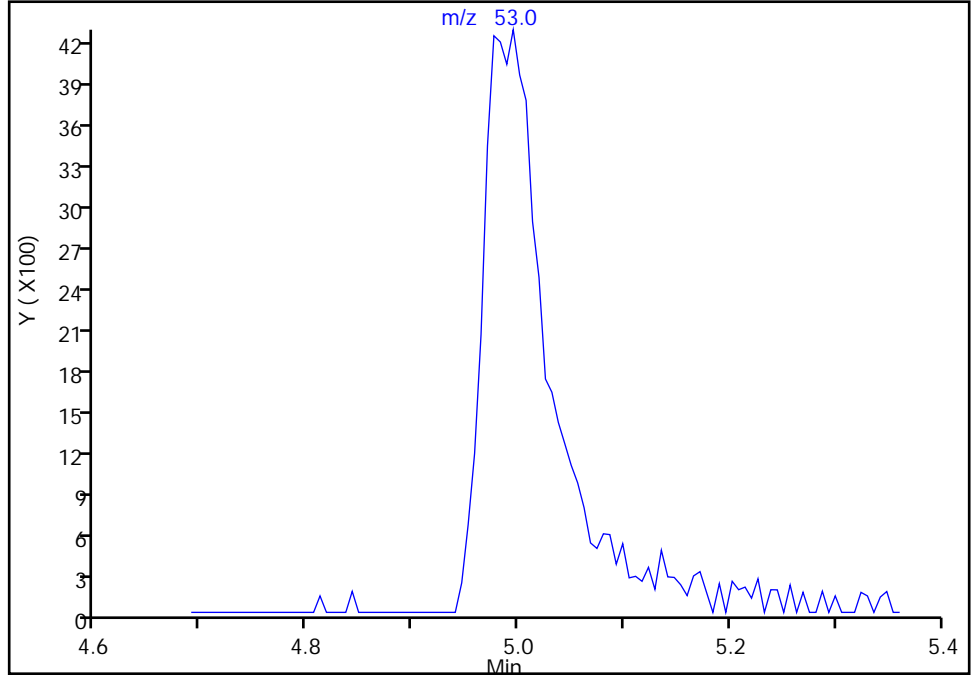
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

21 Acrylonitrile, CAS: 107-13-1

Signal: 1

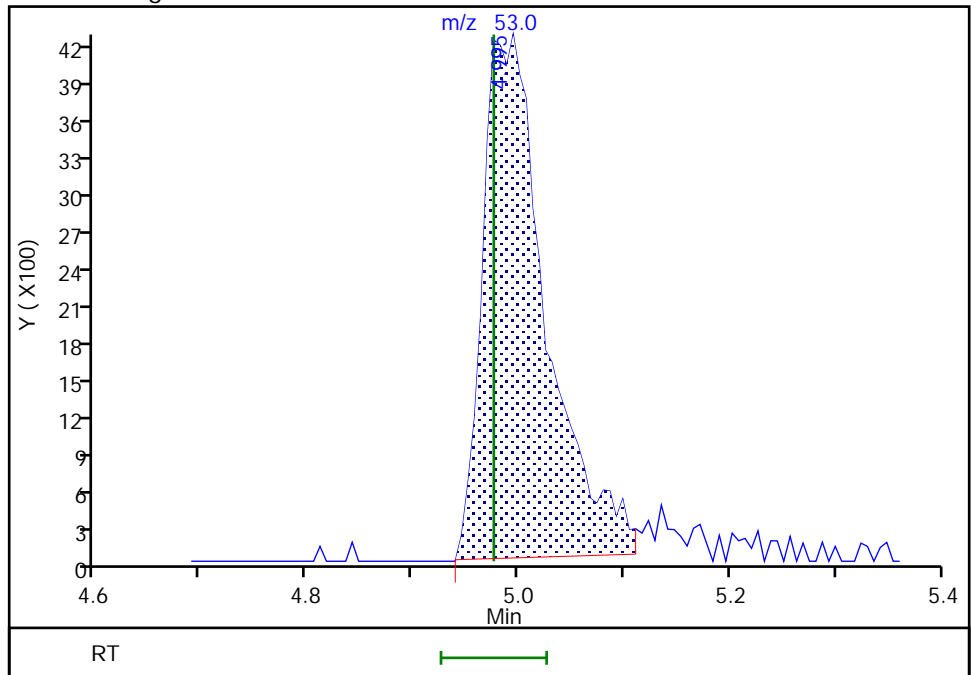
Not Detected  
Expected RT: 4.98

Processing Integration Results



Manual Integration Results

RT: 4.99  
Area: 17496  
Amount: 20.853871  
Amount Units: ug/L



Reviewer: jantanuc, 10-Aug-2020 08:51:02  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

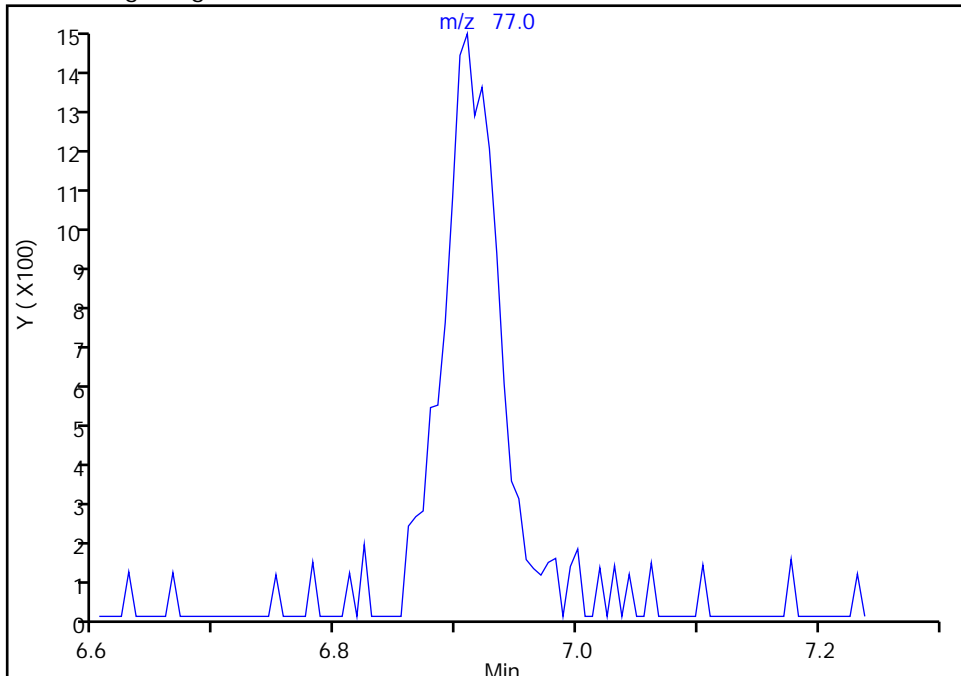
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_006.D  
Injection Date: 07-Aug-2020 14:19:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

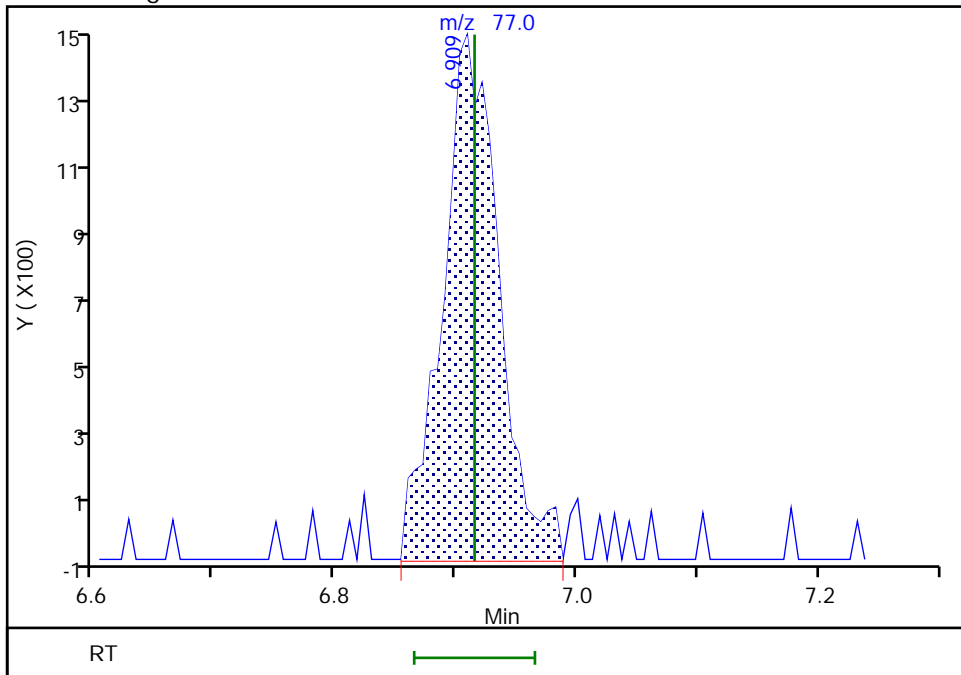
Not Detected  
Expected RT: 6.92

Processing Integration Results



Manual Integration Results

RT: 6.91  
Area: 4676  
Amount: 1.119073  
Amount Units: ug/L



Reviewer: jantanuc, 10-Aug-2020 08:51:14  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020\_004.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 14-Jul-2020 13:24:30 ALS Bottle#: 4 Worklist Smp#: 2  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Sample Info: rb  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Jul-2020 09:56:32 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1065

First Level Reviewer: limwirojt Date: 15-Jul-2020 13:19:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	102227	200.0	200.0	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	76	56570	10.0	10.2	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	49538	10.0	9.72	
* 55 Fluorobenzene (IS)	96	8.598	8.598	0.000	99	223841	10.0	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	92	227906	10.0	10.0	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	79	190663	10.0	10.0	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	95	93352	10.0	10.2	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	63	108266	10.0	10.0	
\$ 118 BFB	95	12.560	12.560	0.000	95	78057	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

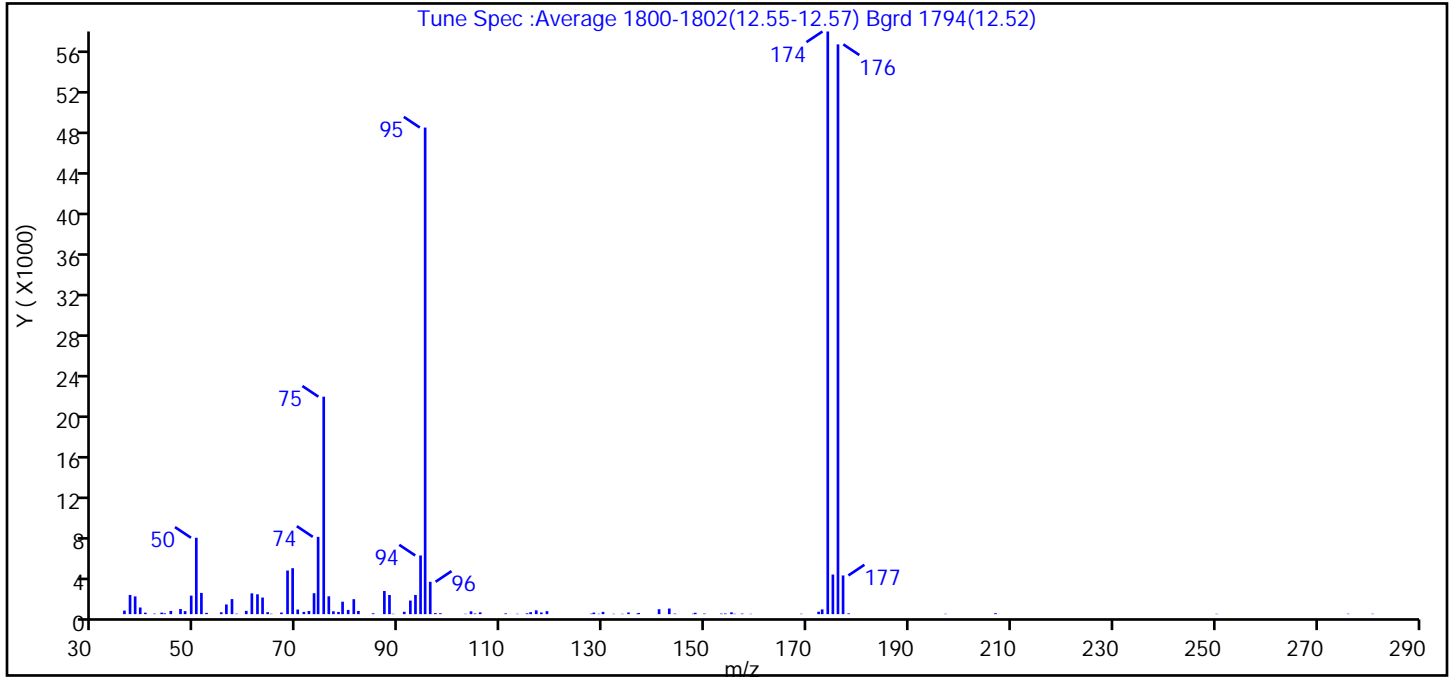
Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020\_004.D  
 Injection Date: 14-Jul-2020 13:24:30 Instrument ID: TAC119  
 Lims ID: BFB  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 2  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Tune Method: BFB Method 8260

\$ 118 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.7
75	30 to 60% of m/z 95	44.7
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	1.0 (0.8)
174	50 to 120% of m/z 95	119.7
175	5 to 9% of m/z 174	8.1 (6.8)
176	Greater than 95% but less than 101% of m/z 174	117.1 (97.8)
177	5 to 9% of m/z 176	8.0 (6.8)

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020\_004.D\DSS TAC119.rsl\spectra.d  
 Injection Date: 14-Jul-2020 13:24:30  
 Spectrum: Tune Spec :Average 1800-1802(12.55-12.57) Bgrd 1794(12.52)  
 Base Peak: 174.00  
 Minimum % Base Peak: 0  
 Number of Points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	353	67.00	158	96.00	3212	144.00	52
37.00	1905	68.00	4329	97.00	105	148.00	43
38.00	1761	69.00	4561	98.00	89	148.00	136
39.00	659	70.00	458	103.00	35	150.00	55
40.00	146	71.00	226	104.00	280	153.00	54
42.00	51	72.00	311	105.00	64	154.00	67
43.00	152	73.00	2077	106.00	175	155.00	178
44.00	81	74.00	7672	111.00	76	156.00	38
45.00	319	75.00	21584	113.00	37	157.00	57
47.00	512	76.00	1771	115.00	84	159.00	33
48.00	301	77.00	285	116.00	198	169.00	39
49.00	1839	78.00	217	117.00	376	172.00	238
50.00	7581	79.00	1234	118.00	165	173.00	474
51.00	2108	80.00	419	119.00	297	174.00	57832
52.00	125	81.00	1485	128.00	47	175.00	3933
55.00	184	82.00	314	128.00	155	176.00	56552
56.00	961	85.00	87	129.00	35	177.00	3840
57.00	1495	87.00	2299	130.00	225	178.00	74
58.00	44	88.00	1901	132.00	36	197.00	36
60.00	325	89.00	37	134.00	34	207.00	96
61.00	2065	91.00	234	135.00	165	250.00	33
62.00	1969	92.00	1350	137.00	39	276.00	40
63.00	1648	93.00	1902	137.00	117	281.00	39
64.00	197	94.00	5823	141.00	488		
65.00	42	95.00	48296	143.00	556		

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020\_004.D

Injection Date: 14-Jul-2020 13:24:30

Instrument ID: TAC119

Lims ID: BFB

Client ID:

Operator ID: cjb

ALS Bottle#: 4

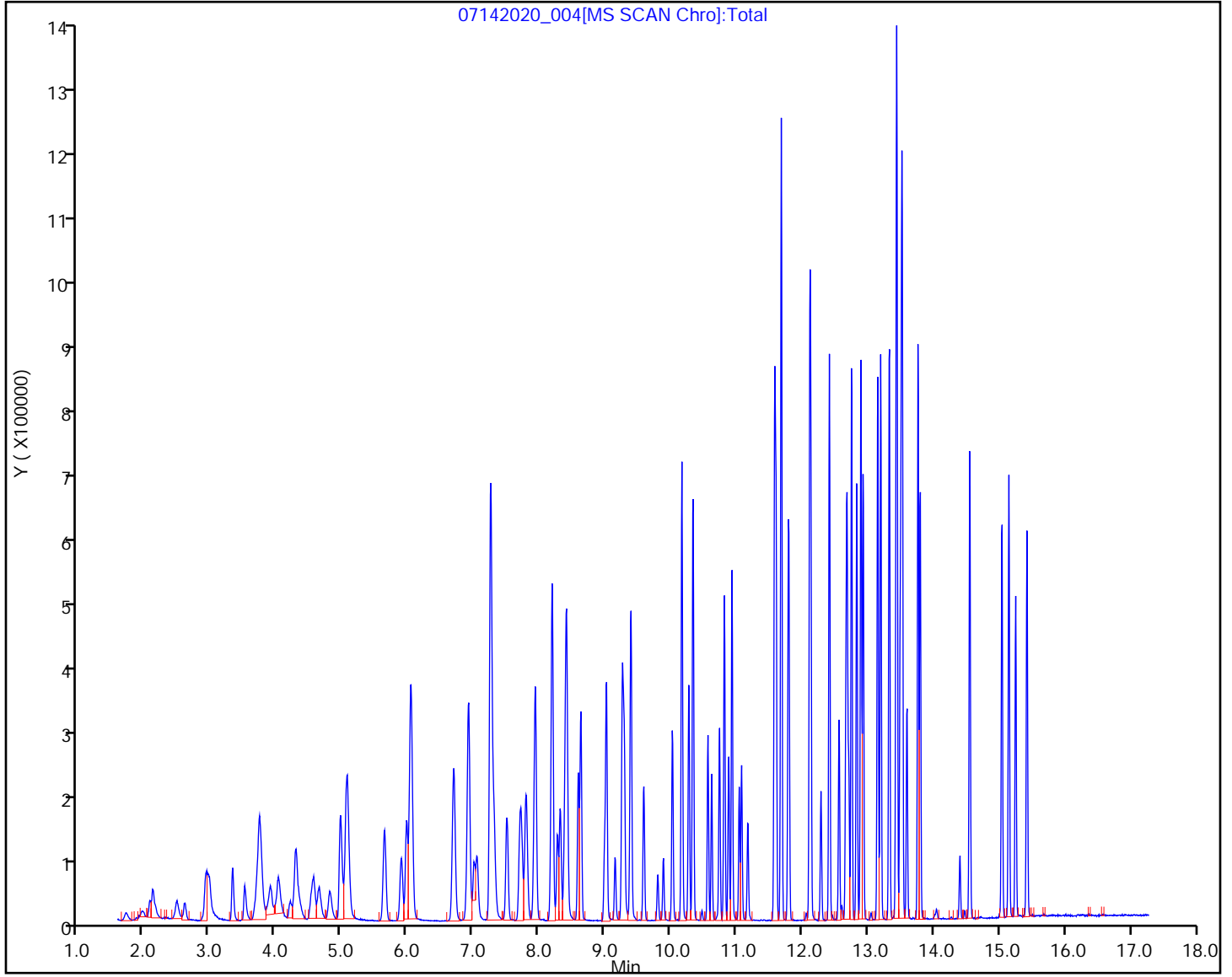
Worklist Smp#: 2

Injection Vol: 5.0 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_002.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 07-Aug-2020 12:34:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Sample Info: bfb  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 08:46:30 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: bohnc

Date: 07-Aug-2020 15:43:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	59366	200.0	200.0	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	56	31760	10.0	10.6	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	29142	10.0	10.5	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	99	121739	10.0	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	92	126642	10.0	9.53	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	82	111509	10.0	10.0	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	96	55174	10.0	10.3	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	90	66489	10.0	10.0	
\$ 118 BFB	95	12.560	12.560	0.000	96	49179	NR	NR	

## QC Flag Legend

Processing Flags

NR - Missing Quant Standard

## Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

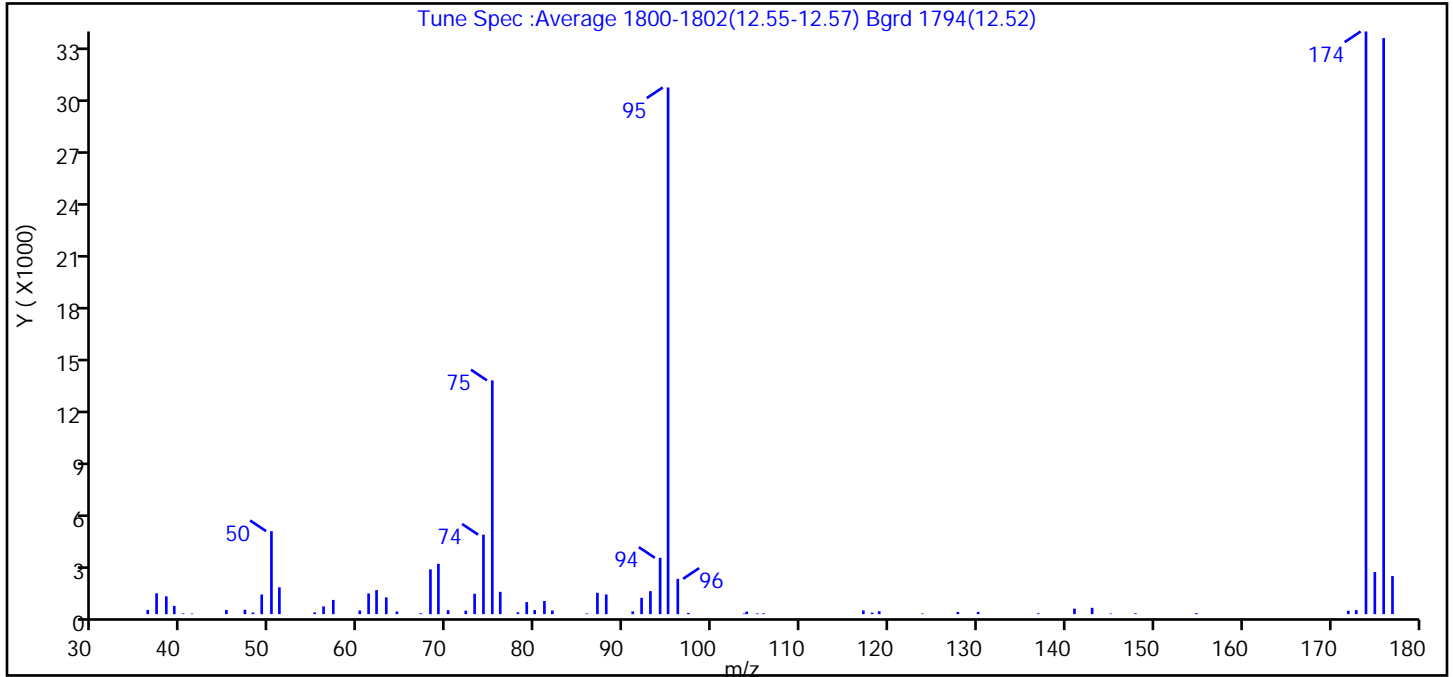
Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_002.D  
 Injection Date: 07-Aug-2020 12:34:30 Instrument ID: TAC119  
 Lims ID: BFB  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Tune Method: BFB Method 8260

\$ 118 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.8
75	30 to 60% of m/z 95	44.4
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.8 (0.7)
174	50 to 120% of m/z 95	110.6
175	5 to 9% of m/z 174	8.0 (7.2)
176	Greater than 95% but less than 101% of m/z 174	109.4 (98.9)
177	5 to 9% of m/z 176	7.2 (6.6)



Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_002.D\DSS TAC119.rsl\spectra.d  
Injection Date: 07-Aug-2020 12:34:30  
Spectrum: Tune Spec :Average 1800-1802(12.55-12.57) Bgrd 1794(12.52)  
Base Peak: 174.00  
Minimum % Base Peak: 0  
Number of Points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	244	62.00	1396	82.00	216	119.00	168
37.00	1212	63.00	973	86.00	40	124.00	35
38.00	1035	64.00	155	87.00	1242	128.00	126
39.00	480	67.00	50	88.00	1144	130.00	130
40.00	42	68.00	2602	91.00	161	137.00	46
41.00	36	69.00	2927	92.00	949	141.00	322
45.00	243	70.00	230	93.00	1338	143.00	367
47.00	257	72.00	199	94.00	3277	145.00	33
48.00	96	73.00	1186	95.00	30632	148.00	46
49.00	1141	74.00	4623	96.00	2056	155.00	59
50.00	4828	75.00	13595	97.00	73	172.00	195
51.00	1560	76.00	1297	104.00	36	173.00	237
55.00	99	77.00	6	104.00	149	174.00	33888
56.00	450	78.00	108	105.00	40	175.00	2448
57.00	827	79.00	703	106.00	47	176.00	33504
60.00	215	80.00	236	117.00	218	177.00	2214
61.00	1203	81.00	764	118.00	87		

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_002.D

Injection Date: 07-Aug-2020 12:34:30

Instrument ID: TAC119

Lims ID: BFB

Client ID:

Operator ID: cjb

ALS Bottle#: 2

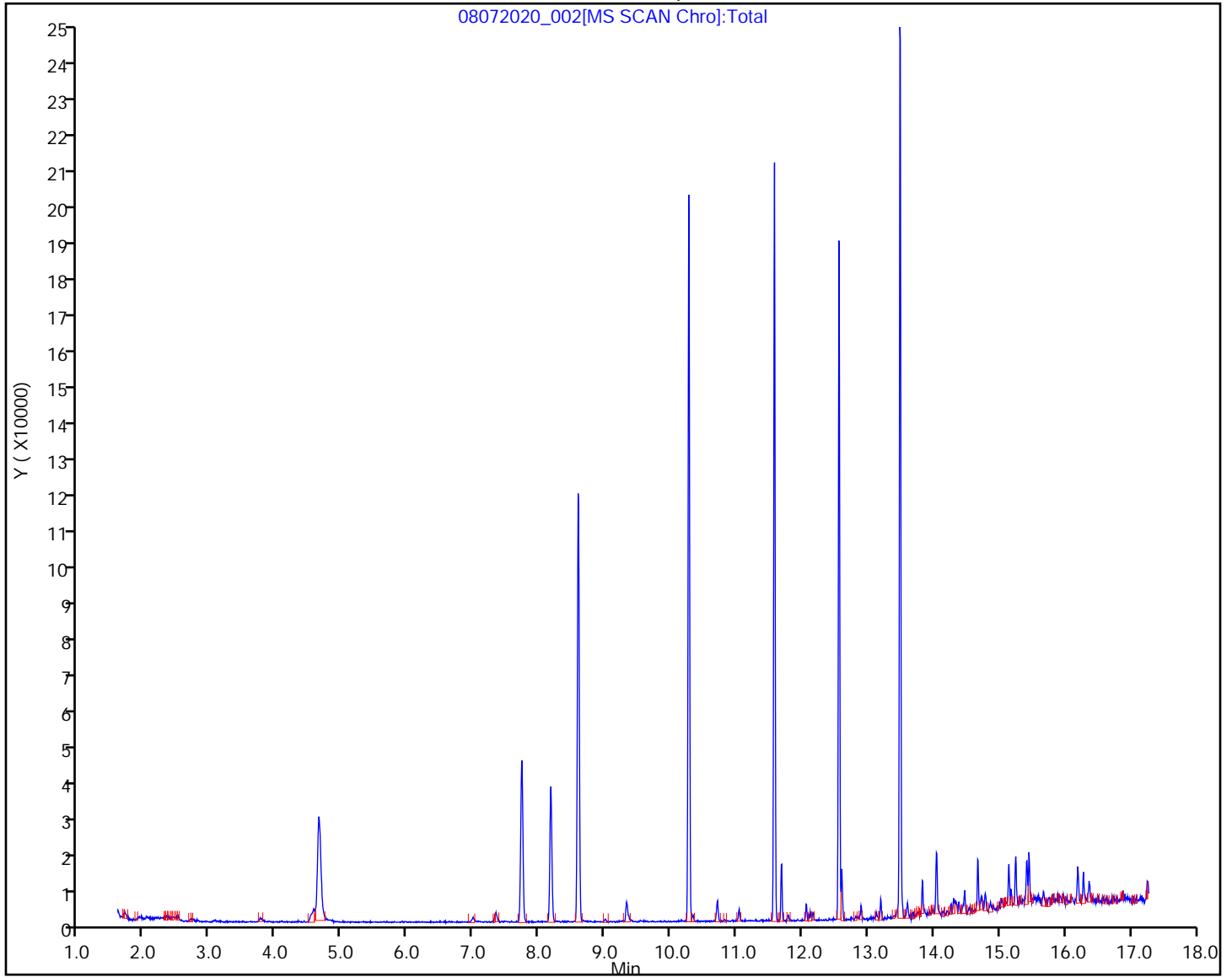
Worklist Smp#: 2

Injection Vol: 5.0 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-335059/1-A  
 Matrix: Solid Lab File ID: 08072020\_007.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 08/07/2020 14:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	ND		2.0	
74-87-3	Chloromethane	ND		5.0	
75-01-4	Vinyl chloride	ND		2.0	
74-83-9	Bromomethane	ND		1.0	
75-00-3	Chloroethane	ND		10	
75-69-4	Trichlorofluoromethane	ND		2.0	
75-35-4	1,1-Dichloroethene	ND		5.0	
75-09-2	Methylene Chloride	ND		40	
1634-04-4	Methyl tert-butyl ether	ND		2.0	
156-60-5	trans-1,2-Dichloroethene	ND		2.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
594-20-7	2,2-Dichloropropane	ND		5.0	
156-59-2	cis-1,2-Dichloroethene	ND		3.0	
74-97-5	Chlorobromomethane	ND		2.0	
67-66-3	Chloroform	ND		2.0	
71-55-6	1,1,1-Trichloroethane	ND		2.0	
56-23-5	Carbon tetrachloride	ND		2.0	
563-58-6	1,1-Dichloropropene	ND		2.0	
71-43-2	Benzene	ND		2.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		2.0	
78-87-5	1,2-Dichloropropane	ND		2.0	
74-95-3	Dibromomethane	ND		1.0	
75-27-4	Dichlorobromomethane	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
108-88-3	Toluene	ND		10	
10061-02-6	trans-1,3-Dichloropropene	ND		10	
79-00-5	1,1,2-Trichloroethane	ND		2.0	
127-18-4	Tetrachloroethene	ND		2.0	
142-28-9	1,3-Dichloropropane	ND		2.0	
124-48-1	Chlorodibromomethane	ND		1.5	
106-93-4	Ethylene Dibromide	ND		1.0	
108-90-7	Chlorobenzene	ND		2.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND		3.0	
100-41-4	Ethylbenzene	ND		2.0	
179601-23-1	m-Xylene & p-Xylene	ND		10	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-335059/1-A  
 Matrix: Solid Lab File ID: 08072020\_007.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 08/07/2020 14:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	ND		5.0	
100-42-5	Styrene	ND		3.0	
75-25-2	Bromoform	ND		5.0	
98-82-8	Isopropylbenzene	ND		2.0	
108-86-1	Bromobenzene	ND		10	
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	
96-18-4	1,2,3-Trichloropropane	ND		5.0	
103-65-1	N-Propylbenzene	ND		5.0	
95-49-8	2-Chlorotoluene	ND		5.0	
106-43-4	4-Chlorotoluene	ND		5.0	
98-06-6	tert-Butylbenzene	ND		3.0	
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	
135-98-8	sec-Butylbenzene	ND		3.0	
99-87-6	4-Isopropyltoluene	ND		2.0	
541-73-1	1,3-Dichlorobenzene	ND		5.0	
106-46-7	1,4-Dichlorobenzene	ND		5.0	
104-51-8	n-Butylbenzene	ND		3.0	
95-50-1	1,2-Dichlorobenzene	ND		10	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	
87-68-3	Hexachlorobutadiene	ND		3.0	
91-20-3	Naphthalene	ND		10	
87-61-6	1,2,3-Trichlorobenzene	ND		3.0	
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-121
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_007.D  
 Lims ID: MB 580-335059/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 07-Aug-2020 14:46:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: mb  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 09:51:02 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc

Date: 10-Aug-2020 09:51:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
16 Acetone	43	3.763	3.745	0.018	65	1873		2.36	M
S 2 Xylenes, Total	100				0			0.0277	
23 Methylene Chloride	84	4.538	4.562	-0.024	50	3344		0.7501	M
* 18 TBA-d9 (IS)	65	4.641	4.647	-0.006	0	59228	200.0	200.0	
20 2-Methyl-2-propanol	59	4.818	4.812	0.006	49	2835		10.7	M
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	57	33827	10.0	10.2	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	30583	10.0	9.97	
53 Benzene	78	8.208	8.195	0.013	1	568		0.0422	M
42 Isobutyl alcohol	43	8.208	8.202	0.006	60	2367		24.0	M
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	99	134728	10.0	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	92	137232	10.0	9.57	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	81	120305	10.0	10.0	
83 Ethylbenzene	91	11.676	11.683	-0.007	1	436		0.0243	
88 o-Xylene	91	12.115	12.115	0.000	1	364		0.0277	M
86 Styrene	104	12.128	12.128	0.000	42	1125		0.1030	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	96	59418	10.0	10.3	
97 1,3,5-Trimethylbenzene	105	12.890	12.896	-0.006	1	606		0.0409	
96 4-Chlorotoluene	126	12.932	12.926	0.006	1	85		0.0172	
98 tert-Butylbenzene	119	13.152	13.152	0.000	1	486		0.0350	
99 1,2,4-Trimethylbenzene	105	13.188	13.194	-0.006	3	1927		0.6122	
100 sec-Butylbenzene	105	13.329	13.322	0.007	1	950		0.0473	
105 4-Isopropyltoluene	119	13.438	13.444	-0.006	1	1023		0.0572	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	90	70472	10.0	10.0	
108 n-Butylbenzene	134	13.774	13.761	0.013	3	579		0.1207	
107 1,2-Dichlorobenzene	146	13.798	13.792	0.006	26	1139		0.1184	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.402	-0.001	16	626		0.6794	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	42	2337		0.2748	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	60	5264		0.7578	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	62	3586		0.7200	
112 Naphthalene	128	15.249	15.249	0.000	92	21253		1.85	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	84	8600		1.39	
\$ 118 BFB	95	12.560	12.560	0.000	96	50338	NR	NR	

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

**Reagents:**

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_007.D

Injection Date: 07-Aug-2020 14:46:30

Instrument ID: TAC119

Lims ID: MB 580-335059/1-A

Client ID:

Operator ID: cjb

ALS Bottle#: 7

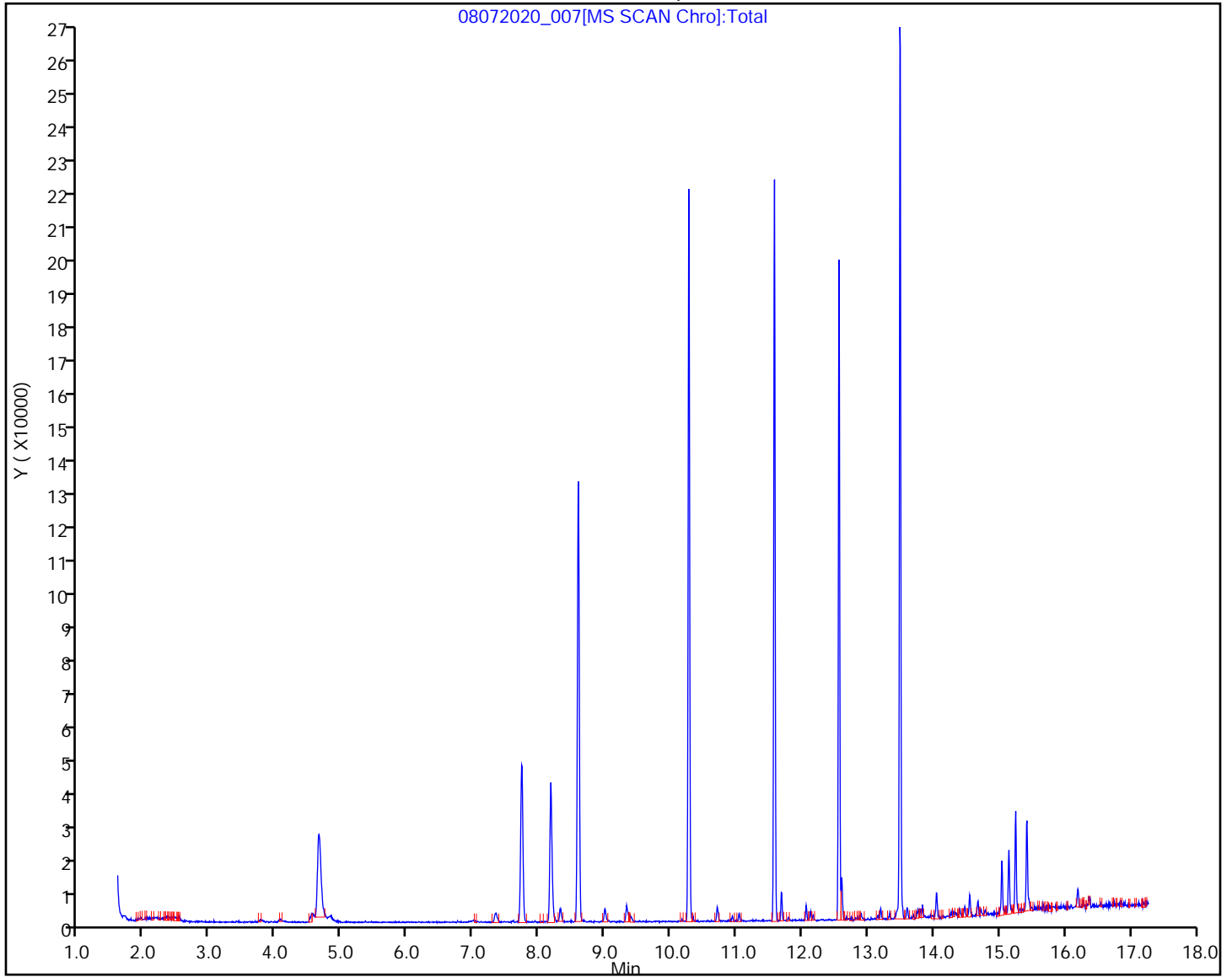
Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_007.D  
 Lims ID: MB 580-335059/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 07-Aug-2020 14:46:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: mb  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 09:51:02 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc Date: 10-Aug-2020 09:51:02

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	10.2	101.62
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	9.97	99.75
\$ 72 Toluene-d8 (Surr)	10.0	9.57	95.67
\$ 92 4-Bromofluorobenzene (Surr)	10.0	10.3	103.29
\$ 118 BFB	10.0	0	0.00



Eurofins TestAmerica, Seattle

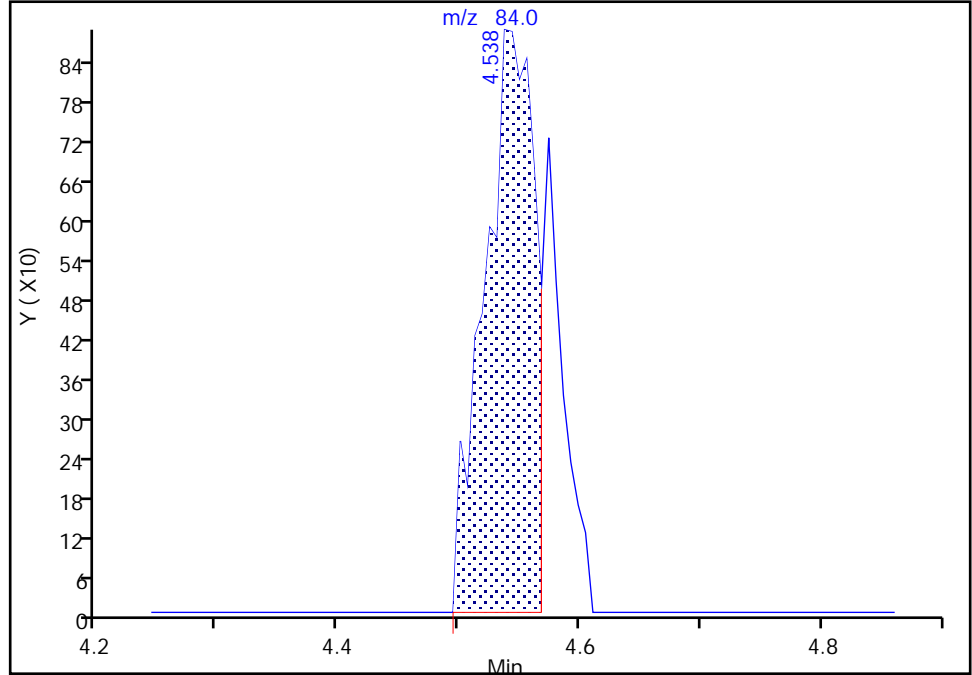
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Injection Date: 07-Aug-2020 14:46:30 Instrument ID: TAC119  
Lims ID: MB 580-335059/1-A  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

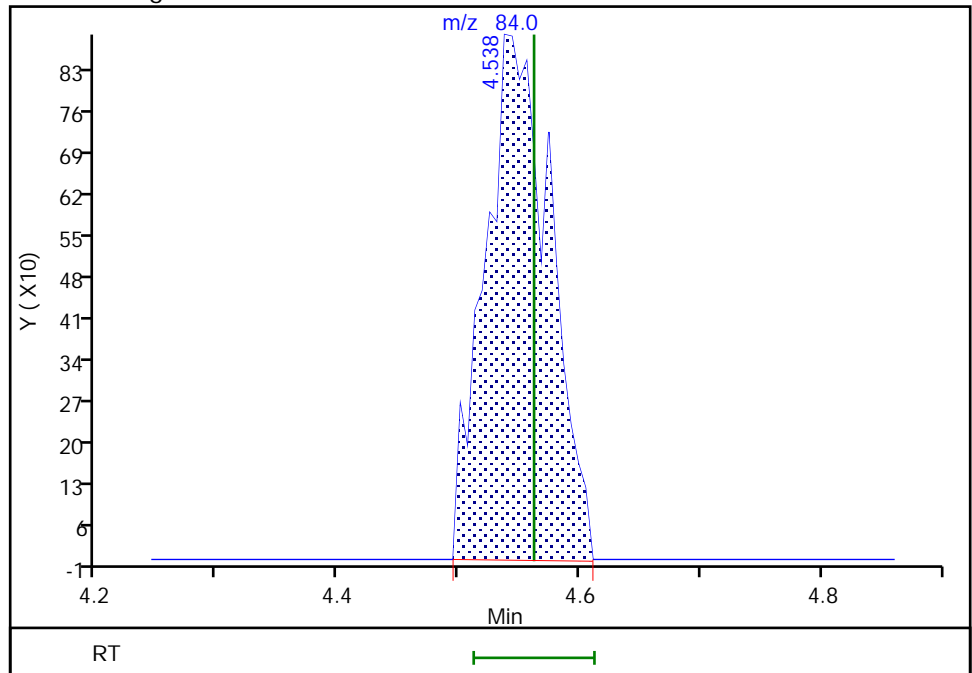
RT: 4.54  
Area: 2578  
Amount: 0.515532  
Amount Units: ug/L

Processing Integration Results



RT: 4.54  
Area: 3344  
Amount: 0.750068  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 09:49:24  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

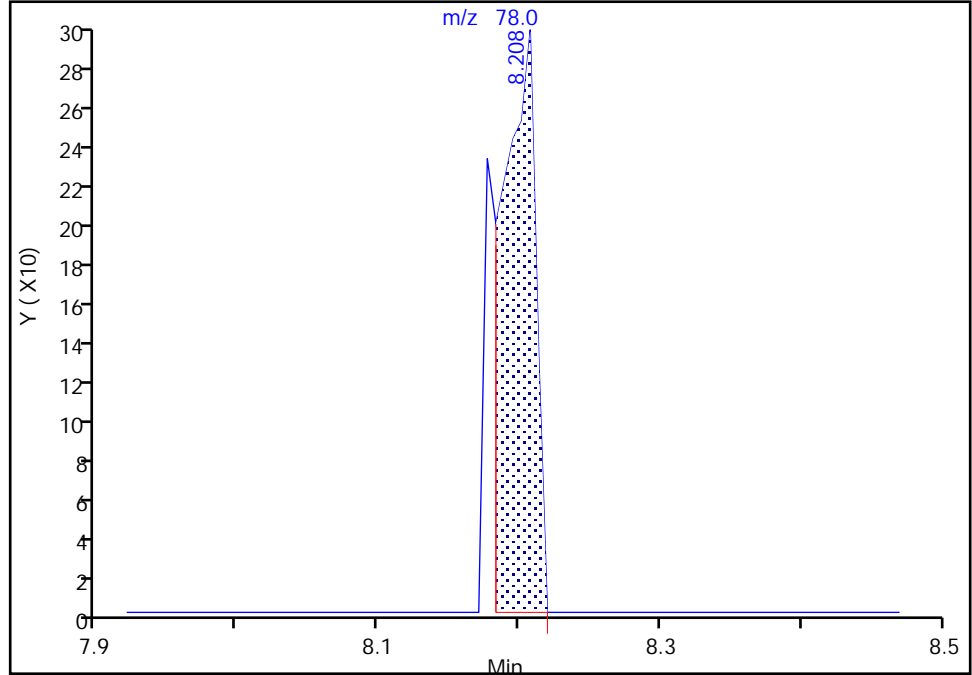
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Injection Date: 07-Aug-2020 14:46:30 Instrument ID: TAC119  
Lims ID: MB 580-335059/1-A  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

53 Benzene, CAS: 71-43-2

Signal: 1

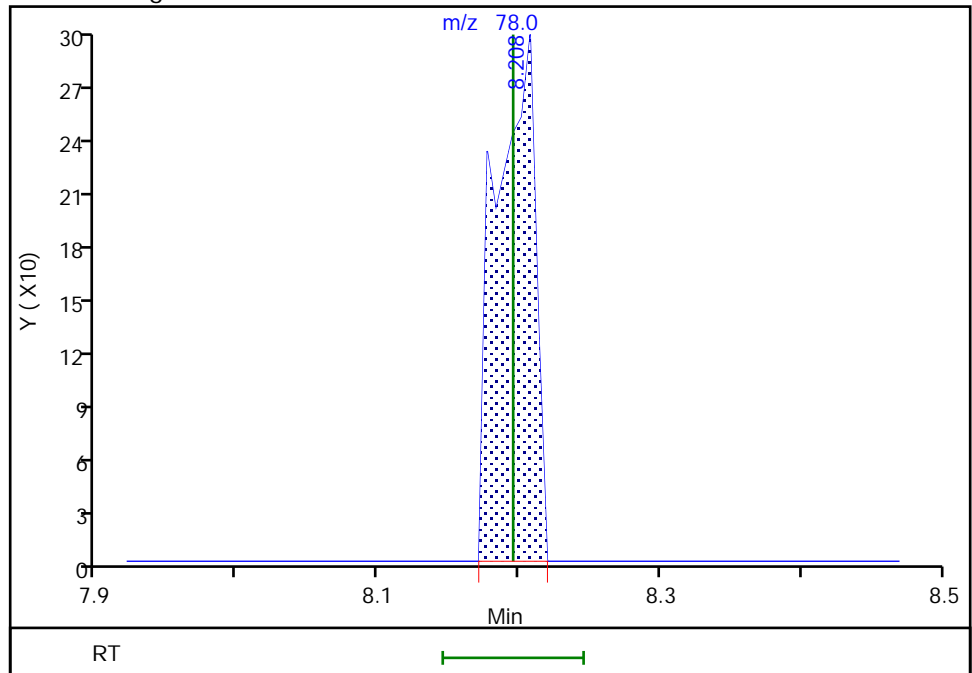
RT: 8.21  
Area: 484  
Amount: 0.035918  
Amount Units: ug/L

Processing Integration Results



RT: 8.21  
Area: 568  
Amount: 0.042152  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 09:49:45  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

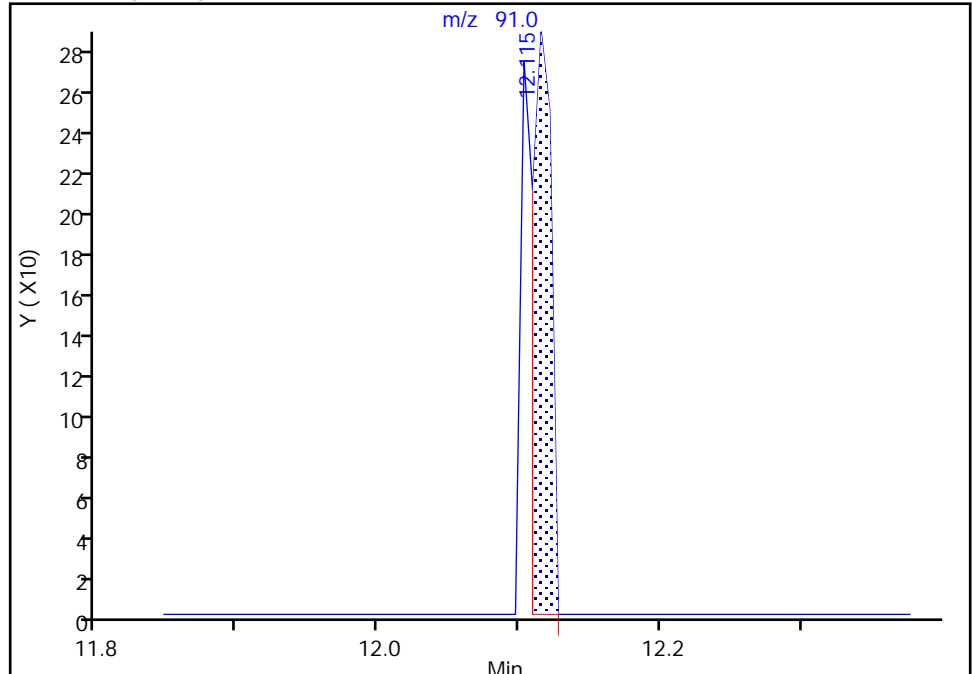
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Injection Date: 07-Aug-2020 14:46:30 Instrument ID: TAC119  
Lims ID: MB 580-335059/1-A  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

88 o-Xylene, CAS: 95-47-6

Signal: 1

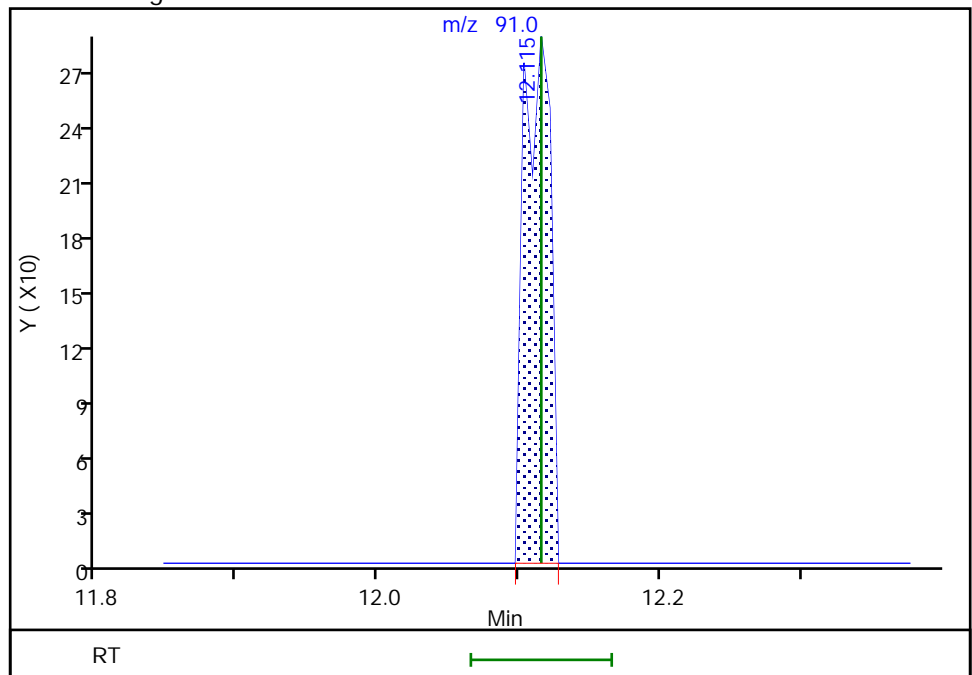
RT: 12.12  
Area: 266  
Amount: 0.020247  
Amount Units: ug/L

Processing Integration Results



RT: 12.12  
Area: 364  
Amount: 0.027707  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 09:50:44  
Audit Action: Manually Integrated

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-335059/2-A  
 Matrix: Solid Lab File ID: 08072020\_004.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 08/07/2020 13:26  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	22.9		2.0	
74-87-3	Chloromethane	18.1		5.0	
75-01-4	Vinyl chloride	17.7		2.0	
74-83-9	Bromomethane	17.6		1.0	
75-00-3	Chloroethane	13.7		10	
75-69-4	Trichlorofluoromethane	18.9		2.0	
75-35-4	1,1-Dichloroethene	18.8		5.0	
75-09-2	Methylene Chloride	20.9	J	40	
1634-04-4	Methyl tert-butyl ether	22.6		2.0	
156-60-5	trans-1,2-Dichloroethene	19.9		2.0	
75-34-3	1,1-Dichloroethane	20.5		1.0	
594-20-7	2,2-Dichloropropane	20.0		5.0	
156-59-2	cis-1,2-Dichloroethene	20.3		3.0	
74-97-5	Chlorobromomethane	21.1		2.0	
67-66-3	Chloroform	21.0		2.0	
71-55-6	1,1,1-Trichloroethane	20.6		2.0	
56-23-5	Carbon tetrachloride	20.5		2.0	
563-58-6	1,1-Dichloropropene	20.4		2.0	
71-43-2	Benzene	20.3		2.0	
107-06-2	1,2-Dichloroethane	21.6		1.0	
79-01-6	Trichloroethene	19.9		2.0	
78-87-5	1,2-Dichloropropane	21.7		2.0	
74-95-3	Dibromomethane	22.1		1.0	
75-27-4	Dichlorobromomethane	23.2		1.0	
10061-01-5	cis-1,3-Dichloropropene	22.6		1.0	
108-88-3	Toluene	19.4		10	
10061-02-6	trans-1,3-Dichloropropene	23.5		10	
79-00-5	1,1,2-Trichloroethane	22.4		2.0	
127-18-4	Tetrachloroethene	18.4		2.0	
142-28-9	1,3-Dichloropropane	23.0		2.0	
124-48-1	Chlorodibromomethane	24.2		1.5	
106-93-4	Ethylene Dibromide	22.7		1.0	
108-90-7	Chlorobenzene	22.0		2.0	
630-20-6	1,1,1,2-Tetrachloroethane	23.6		3.0	
100-41-4	Ethylbenzene	21.6		2.0	
179601-23-1	m-Xylene & p-Xylene	22.3		10	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-335059/2-A  
 Matrix: Solid Lab File ID: 08072020\_004.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 08/07/2020 13:26  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	23.6		5.0	
100-42-5	Styrene	24.4		3.0	
75-25-2	Bromoform	26.1		5.0	
98-82-8	Isopropylbenzene	23.8		2.0	
108-86-1	Bromobenzene	23.0		10	
79-34-5	1,1,2,2-Tetrachloroethane	25.2		4.0	
96-18-4	1,2,3-Trichloropropane	23.4		5.0	
103-65-1	N-Propylbenzene	23.2		5.0	
95-49-8	2-Chlorotoluene	22.7		5.0	
106-43-4	4-Chlorotoluene	23.4		5.0	
98-06-6	tert-Butylbenzene	24.3		3.0	
95-63-6	1,2,4-Trimethylbenzene	20.9		5.0	
135-98-8	sec-Butylbenzene	24.3		3.0	
99-87-6	4-Isopropyltoluene	24.5		2.0	
541-73-1	1,3-Dichlorobenzene	23.8		5.0	
106-46-7	1,4-Dichlorobenzene	23.6		5.0	
104-51-8	n-Butylbenzene	24.5		3.0	
95-50-1	1,2-Dichlorobenzene	24.5		10	
96-12-8	1,2-Dibromo-3-Chloropropane	26.8		10	
120-82-1	1,2,4-Trichlorobenzene	25.5		2.0	
87-68-3	Hexachlorobutadiene	24.7		3.0	
91-20-3	Naphthalene	28.5		10	
87-61-6	1,2,3-Trichlorobenzene	26.6		3.0	
108-67-8	1,3,5-Trimethylbenzene	24.1		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-121
460-00-4	4-Bromofluorobenzene (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_004.D  
 Lims ID: LCS 580-335059/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 07-Aug-2020 13:26:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: lcs  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 08:48:08 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc Date: 10-Aug-2020 08:48:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.715	1.715	0.000	85	36558	20.0	22.9	
4 Chloromethane	50	1.934	1.947	-0.013	82	43361	20.0	18.1	
5 Vinyl chloride	62	2.062	2.075	-0.013	82	44515	20.0	17.7	
6 Butadiene	54	2.117	2.130	-0.013	89	30283	20.0	16.2	
7 Bromomethane	94	2.471	2.483	-0.012	89	37370	20.0	17.6	
8 Chloroethane	66	2.593	2.605	-0.012	99	10378	20.0	13.7	
10 Dichlorofluoromethane	67	2.922	2.928	-0.006	95	84085	20.0	19.4	
14 Trichlorofluoromethane	101	2.959	2.965	-0.006	96	81000	20.0	18.9	M
11 3-Chloro-1-propene	76	2.977	2.977	0.000	72	6901	20.0	16.3	
17 Ethyl ether	59	3.330	3.337	-0.007	87	44986	20.0	21.7	
12 Acrolein	56	3.513	3.519	-0.006	93	58929	120.0	144.2	
19 1,1-Dichloroethene	96	3.690	3.702	-0.012	86	48248	20.0	18.8	
16 Acetone	43	3.745	3.745	0.000	97	81169	100.0	99.3	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.745	3.751	-0.006	72	59056	20.0	19.8	
22 Iodomethane	142	3.897	3.910	-0.013	97	107908	20.0	20.2	
26 Carbon disulfide	76	4.019	4.038	-0.019	98	152365	20.0	18.4	M
S 2 Xylenes, Total	100				0		40.0	46.0	
15 Isopropyl alcohol	45	4.038	4.044	-0.006	96	38830	200.0	265.3	
13 Acetonitrile	40	4.214	4.208	0.006	98	24952	250.0	291.6	
24 Methyl acetate	43	4.300	4.306	-0.006	94	69218	40.0	36.9	
23 Methylene Chloride	84	4.544	4.562	-0.018	78	67403	20.0	20.9	
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	67733	200.0	200.0	
20 2-Methyl-2-propanol	59	4.812	4.812	0.000	99	85705	200.0	315.6	
21 Acrylonitrile	53	4.976	4.977	-0.001	99	180994	200.0	236.3	
27 trans-1,2-Dichloroethene	96	5.068	5.068	0.000	64	68614	20.0	19.9	
28 Methyl tert-butyl ether	73	5.074	5.074	0.000	82	185455	20.0	22.6	
34 Hexane	57	5.641	5.647	-0.006	90	87237	20.0	19.8	
30 1,1-Dichloroethane	63	5.897	5.903	-0.006	96	106129	20.0	20.5	
31 Vinyl acetate	86	5.982	5.982	0.000	97	36328	50.0	51.9	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	68	95588	20.0	21.3	
35 Isopropyl ether	45	6.049	6.049	0.000	55	227108	25.0	28.4	
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	95	115086	25.0	28.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.903	6.915	-0.012	83	76131	20.0	20.0	a
37 cis-1,2-Dichloroethene	96	6.921	6.927	-0.006	74	78615	20.0	20.3	
33 2-Butanone (MEK)	72	6.927	6.927	0.000	97	44360	100.0	120.3	
29 Propionitrile	54	7.007	7.007	0.000	94	104592	250.0	326.1	
38 Ethyl acetate	43	7.055	7.055	0.000	98	111072	40.0	50.0	
36 Methacrylonitrile	67	7.263	7.263	0.000	89	281731	200.0	246.9	
39 Chlorobromomethane	130	7.305	7.305	0.000	60	56892	20.0	21.1	
40 Chloroform	83	7.506	7.507	-0.001	80	122100	20.0	21.0	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	91	107230	20.0	20.6	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	72	35211	10.0	10.3	
51 Cyclohexane	84	7.799	7.799	0.000	84	100800	20.0	20.2	
52 Carbon tetrachloride	117	7.927	7.927	0.000	93	102304	20.0	20.5	
50 1,1-Dichloropropene	75	7.945	7.939	0.006	94	93741	20.0	20.4	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	32111	10.0	10.2	
53 Benzene	78	8.195	8.195	0.000	95	281349	20.0	20.3	
42 Isobutyl alcohol	43	8.201	8.202	-0.001	54	79381	500.0	704.7	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	85	84216	20.0	21.6	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	97	257188	25.0	31.2	
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	100	138619	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.628	0.006	28	23265	40.0	41.7	
56 n-Heptane	43	8.634	8.634	0.000	87	91183	20.0	21.4	
61 Trichloroethene	132	9.024	9.025	-0.001	88	90606	20.0	19.9	
57 Ethyl acrylate	55	9.153	9.153	-0.001	98	82992	20.0	27.6	
49 n-Butanol	56	9.262	9.262	0.000	41	28562	500.0	535.0	
66 Methylcyclohexane	83	9.262	9.262	0.000	84	131124	20.0	20.6	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	93	65297	20.0	21.7	a
59 Dibromomethane	174	9.390	9.390	0.000	59	65293	20.0	22.1	
63 Methyl methacrylate	69	9.396	9.396	0.000	85	101121	40.0	52.0	
62 Dichlorobromomethane	83	9.591	9.591	0.000	99	100698	20.0	23.2	
58 2-Nitropropane	43	9.799	9.805	-0.006	97	42499	40.0	55.2	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	92	31508	20.0	22.1	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	91	120609	20.0	22.6	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	94	147751	100.0	128.9	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	91	143863	10.0	9.44	
74 Toluene	91	10.341	10.341	0.000	97	342983	20.0	19.4	
70 n-Butyl acetate	43	10.475	10.475	0.000	87	9388	20.0	24.3	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	91	112348	20.0	23.5	
73 Ethyl methacrylate	69	10.622	10.622	0.000	83	96205	20.0	28.1	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	89	72944	20.0	22.4	
79 Tetrachloroethene	164	10.817	10.817	0.000	87	88376	20.0	18.4	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	86	113946	20.0	23.0	
76 2-Hexanone	58	10.933	10.933	0.000	77	150009	100.0	133.0	
77 Chlorodibromomethane	129	11.079	11.079	0.000	89	96331	20.0	24.2	
78 Ethylene Dibromide	107	11.170	11.170	0.000	98	72790	20.0	22.7	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	80	127805	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	97	262779	20.0	22.0	
80 1,1,1,2-Tetrachloroethane	131	11.683	11.683	-0.001	46	101233	20.0	23.6	
83 Ethylbenzene	91	11.683	11.683	-0.001	97	412406	20.0	21.6	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	316584	20.0	22.3	
88 o-Xylene	91	12.115	12.115	0.000	94	330061	20.0	23.6	
86 Styrene	104	12.128	12.128	0.000	94	282596	20.0	24.4	
85 Bromoform	173	12.286	12.286	0.000	98	78415	20.0	26.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
91 Isopropylbenzene	105	12.414	12.414	0.000	94	447584	20.0	23.8	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	95	63418	10.0	10.4	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	97	96851	20.0	25.2	
93 Bromobenzene	156	12.682	12.682	0.000	82	137031	20.0	23.0	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	53	26022	20.0	25.2	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	33	32822	20.0	23.4	
94 N-Propylbenzene	91	12.749	12.749	0.000	88	518414	20.0	23.2	
95 2-Chlorotoluene	126	12.829	12.829	0.000	98	118481	20.0	22.7	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	93	382806	20.0	24.1	
96 4-Chlorotoluene	126	12.926	12.926	0.000	92	124185	20.0	23.4	
98 tert-Butylbenzene	119	13.152	13.152	0.000	88	362027	20.0	24.3	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	60	392872	20.0	20.9	
100 sec-Butylbenzene	105	13.322	13.322	0.000	93	523229	20.0	24.3	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	96	264178	20.0	23.8	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	96	469815	20.0	24.5	
* 103 1,4-Dichlorobenzene-d4	152	13.487	13.493	-0.006	61	75603	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	97	263706	20.0	23.6	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	97	398101	20.0	24.8	
101 Benzyl chloride	126	13.597	13.591	0.006	97	46800	20.0	26.8	
108 n-Butylbenzene	134	13.761	13.761	0.000	96	126307	20.0	24.5	
107 1,2-Dichlorobenzene	146	13.798	13.792	0.006	97	252876	20.0	24.5	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.402	-0.001	91	26450	20.0	26.8	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	97	221784	20.0	24.3	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	93	189904	20.0	25.5	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	89	132233	20.0	24.7	
112 Naphthalene	128	15.249	15.249	0.000	96	351447	20.0	28.5	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	93	176167	20.0	26.6	
\$ 118 BFB	95	12.560	12.560	0.000	95	55649	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_004.D

Injection Date: 07-Aug-2020 13:26:30

Instrument ID: TAC119

Lims ID: LCS 580-335059/2-A

Client ID:

Operator ID: cjb

ALS Bottle#: 4

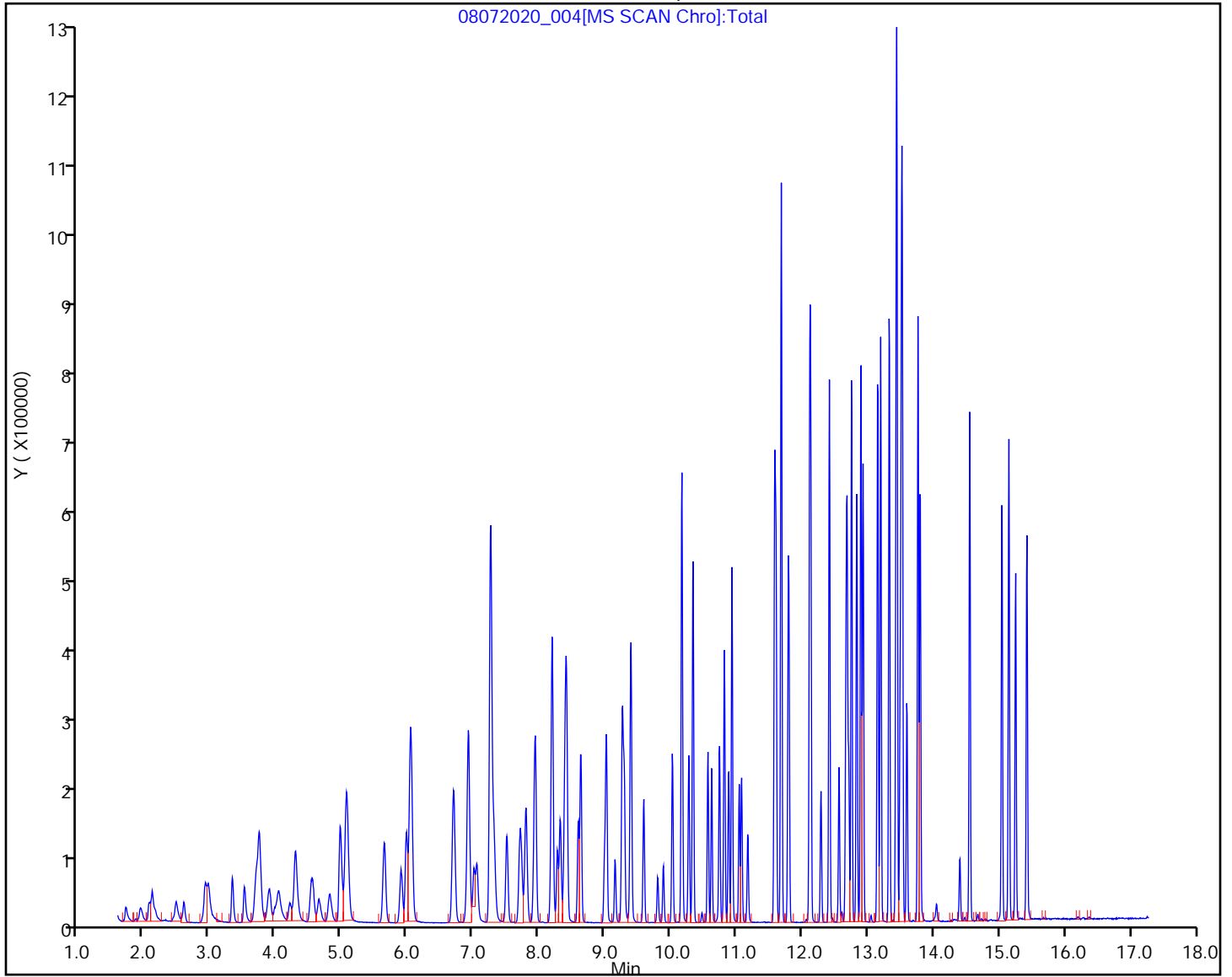
Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_004.D  
 Lims ID: LCS 580-335059/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 07-Aug-2020 13:26:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: lcs  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 08:48:08 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc

Date: 10-Aug-2020 08:48:08

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	10.3	102.81
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.79
\$ 72 Toluene-d8 (Surr)	10.0	9.44	94.41
\$ 92 4-Bromofluorobenzene (Surr)	10.0	10.4	103.78
\$ 118 BFB	10.0	0	0.00

Eurofins TestAmerica, Seattle

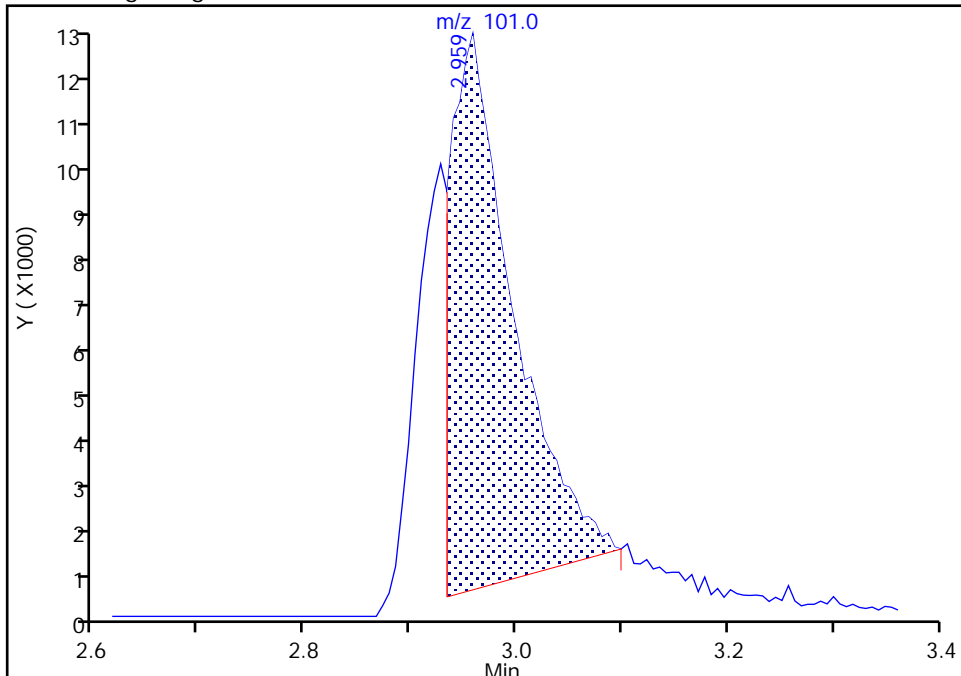
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_004.D  
Injection Date: 07-Aug-2020 13:26:30 Instrument ID: TAC119  
Lims ID: LCS 580-335059/2-A  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

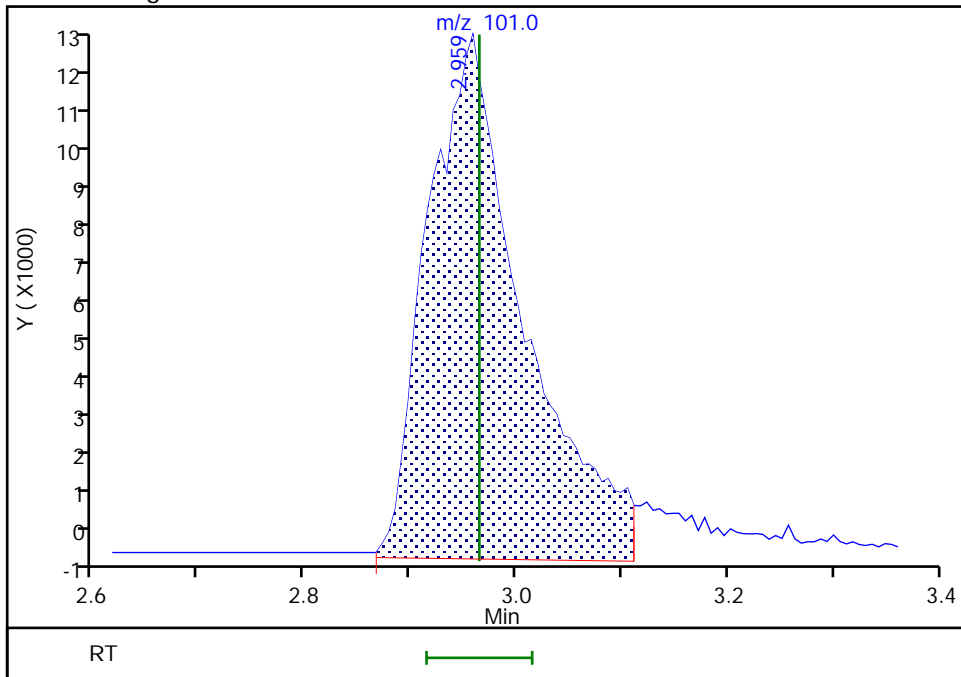
RT: 2.96  
Area: 50161  
Amount: 11.726992  
Amount Units: ug/L

Processing Integration Results



RT: 2.96  
Area: 81000  
Amount: 18.936750  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

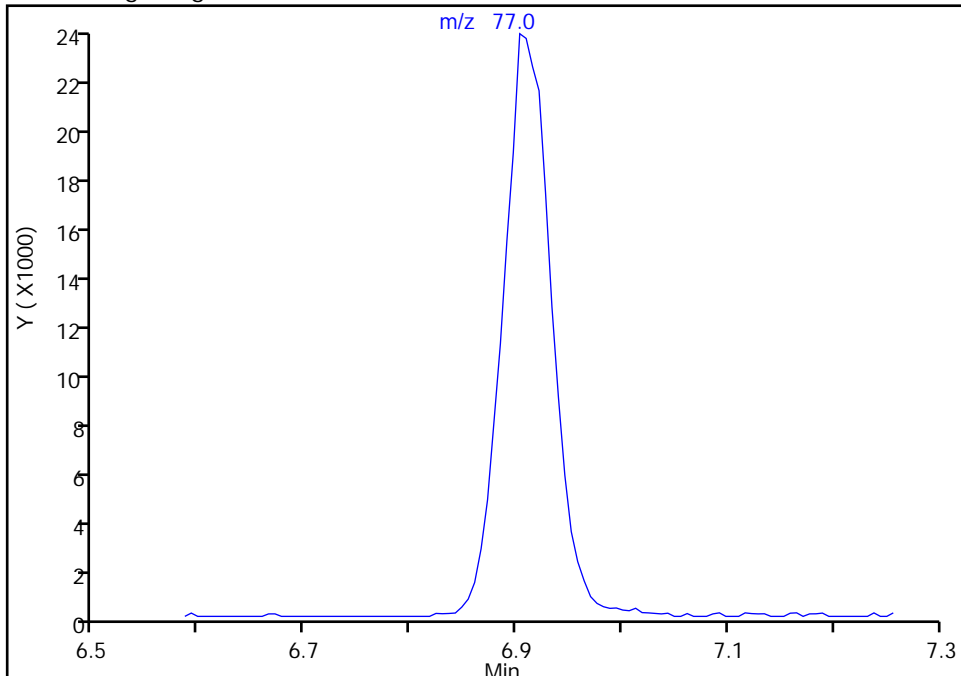
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_004.D  
Injection Date: 07-Aug-2020 13:26:30 Instrument ID: TAC119  
Lims ID: LCS 580-335059/2-A  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

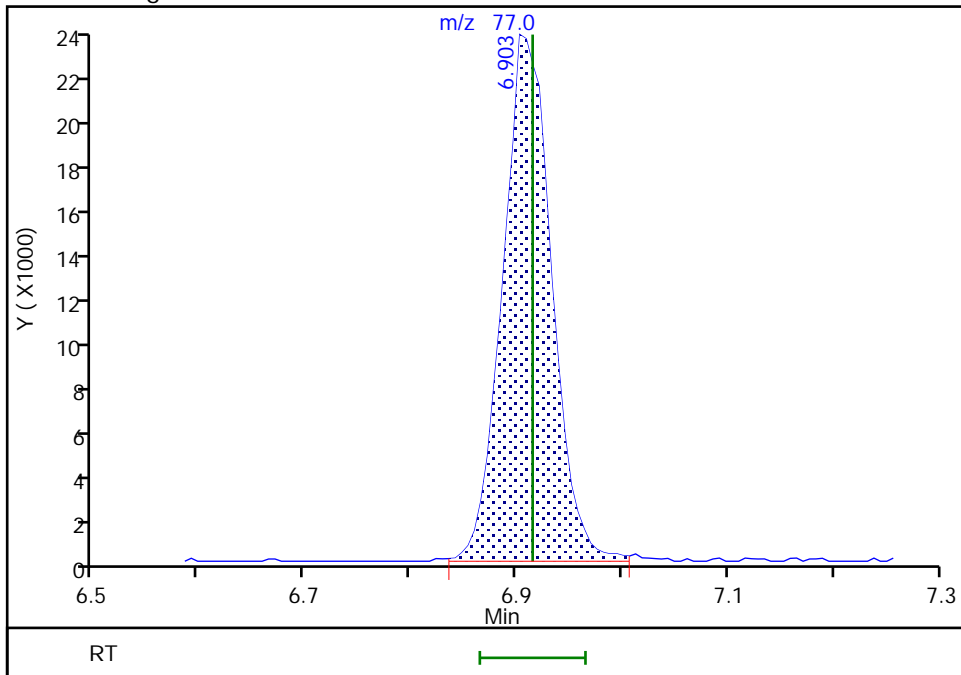
Not Detected  
Expected RT: 6.92

Processing Integration Results



RT: 6.90  
Area: 76131  
Amount: 19.958153  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

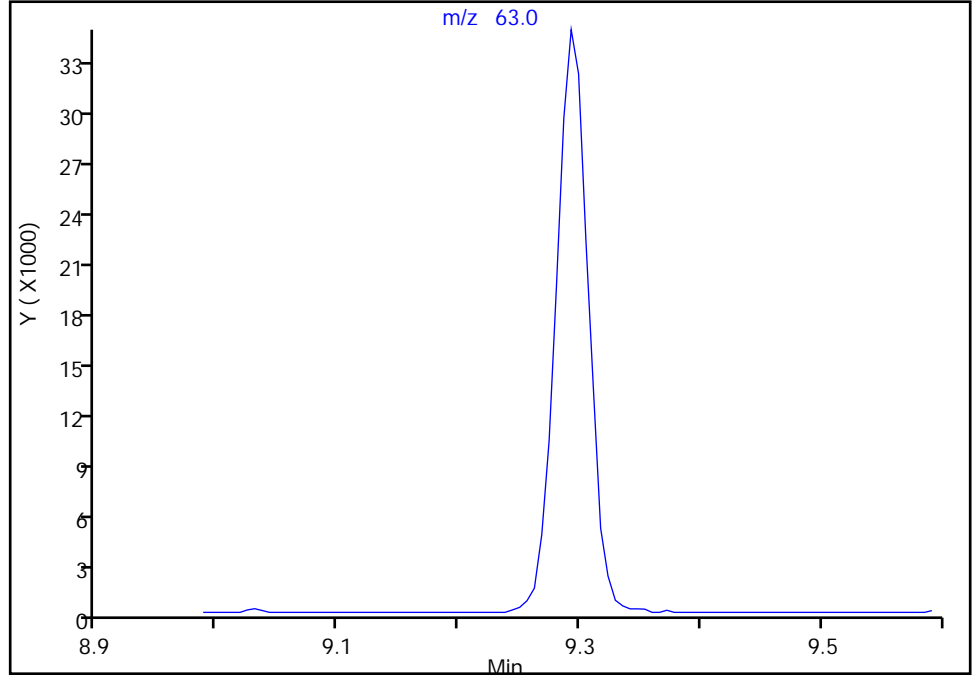
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_004.D  
Injection Date: 07-Aug-2020 13:26:30 Instrument ID: TAC119  
Lims ID: LCS 580-335059/2-A  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

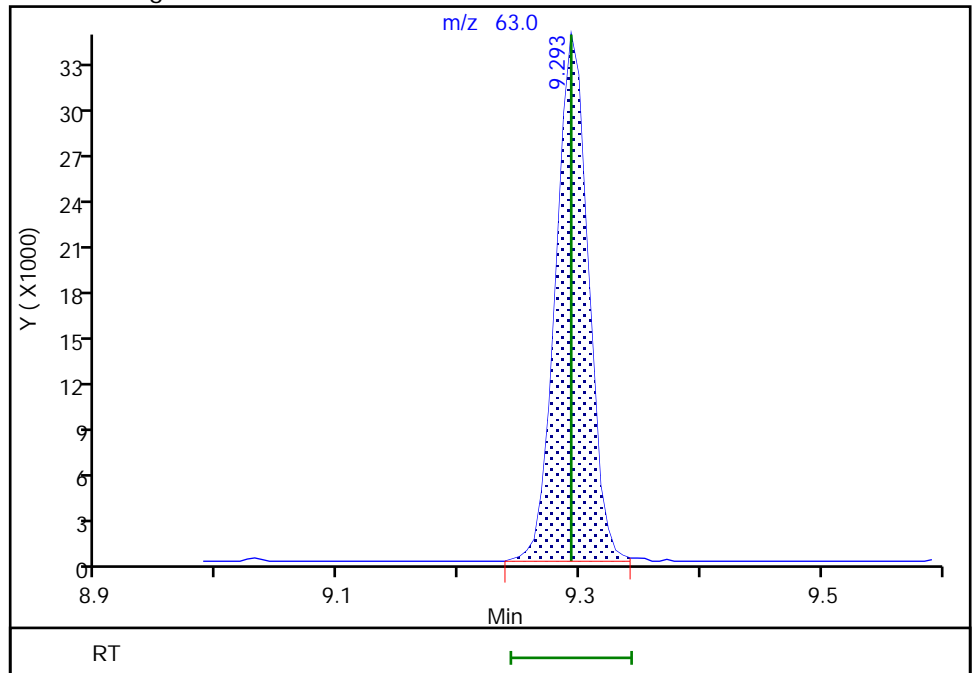
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 65297  
Amount: 21.675597  
Amount Units: ug/L



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-335059/3-A  
 Matrix: Solid Lab File ID: 08072020\_005.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 08/07/2020 13:53  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	18.7		2.0	
74-87-3	Chloromethane	17.1		5.0	
75-01-4	Vinyl chloride	17.6		2.0	
74-83-9	Bromomethane	17.2		1.0	
75-00-3	Chloroethane	13.3		10	
75-69-4	Trichlorofluoromethane	16.4		2.0	
75-35-4	1,1-Dichloroethene	15.4		5.0	
75-09-2	Methylene Chloride	19.9	J	40	
1634-04-4	Methyl tert-butyl ether	21.6		2.0	
156-60-5	trans-1,2-Dichloroethene	18.5		2.0	
75-34-3	1,1-Dichloroethane	19.2		1.0	
594-20-7	2,2-Dichloropropane	18.2		5.0	
156-59-2	cis-1,2-Dichloroethene	19.9		3.0	
74-97-5	Chlorobromomethane	20.0		2.0	
67-66-3	Chloroform	20.6		2.0	
71-55-6	1,1,1-Trichloroethane	19.8		2.0	
56-23-5	Carbon tetrachloride	19.3		2.0	
563-58-6	1,1-Dichloropropene	19.3		2.0	
71-43-2	Benzene	19.5		2.0	
107-06-2	1,2-Dichloroethane	20.9		1.0	
79-01-6	Trichloroethene	20.0		2.0	
78-87-5	1,2-Dichloropropane	21.0		2.0	
74-95-3	Dibromomethane	21.7		1.0	
75-27-4	Dichlorobromomethane	22.7		1.0	
10061-01-5	cis-1,3-Dichloropropene	22.8		1.0	
108-88-3	Toluene	19.6		10	
10061-02-6	trans-1,3-Dichloropropene	23.7		10	
79-00-5	1,1,2-Trichloroethane	22.4		2.0	
127-18-4	Tetrachloroethene	19.0		2.0	
142-28-9	1,3-Dichloropropane	23.0		2.0	
124-48-1	Chlorodibromomethane	24.0		1.5	
106-93-4	Ethylene Dibromide	23.1		1.0	
108-90-7	Chlorobenzene	22.2		2.0	
630-20-6	1,1,1,2-Tetrachloroethane	23.5		3.0	
100-41-4	Ethylbenzene	22.0		2.0	
179601-23-1	m-Xylene & p-Xylene	22.7		10	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-335059/3-A  
 Matrix: Solid Lab File ID: 08072020\_005.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 08/07/2020 13:53  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 335064 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	23.4		5.0	
100-42-5	Styrene	24.0		3.0	
75-25-2	Bromoform	24.4		5.0	
98-82-8	Isopropylbenzene	23.7		2.0	
108-86-1	Bromobenzene	21.9		10	
79-34-5	1,1,2,2-Tetrachloroethane	22.7		4.0	
96-18-4	1,2,3-Trichloropropane	22.2		5.0	
103-65-1	N-Propylbenzene	22.9		5.0	
95-49-8	2-Chlorotoluene	21.9		5.0	
106-43-4	4-Chlorotoluene	22.4		5.0	
98-06-6	tert-Butylbenzene	23.8		3.0	
95-63-6	1,2,4-Trimethylbenzene	20.1		5.0	
135-98-8	sec-Butylbenzene	23.5		3.0	
99-87-6	4-Isopropyltoluene	23.7		2.0	
541-73-1	1,3-Dichlorobenzene	22.0		5.0	
106-46-7	1,4-Dichlorobenzene	21.7		5.0	
104-51-8	n-Butylbenzene	23.3		3.0	
95-50-1	1,2-Dichlorobenzene	22.5		10	
96-12-8	1,2-Dibromo-3-Chloropropane	24.7		10	
120-82-1	1,2,4-Trichlorobenzene	22.6		2.0	
87-68-3	Hexachlorobutadiene	22.2		3.0	
91-20-3	Naphthalene	26.6		10	
87-61-6	1,2,3-Trichlorobenzene	24.1		3.0	
108-67-8	1,3,5-Trimethylbenzene	23.4		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-121
460-00-4	4-Bromofluorobenzene (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_005.D  
 Lims ID: LCSD 580-335059/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 07-Aug-2020 13:53:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: lcsd  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 08:50:01 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc

Date: 10-Aug-2020 08:50:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.715	1.715	0.000	85	31992	20.0	18.7	
4 Chloromethane	50	1.941	1.947	-0.006	92	43808	20.0	17.1	
5 Vinyl chloride	62	2.063	2.075	-0.012	78	47360	20.0	17.6	
6 Butadiene	54	2.117	2.130	-0.013	90	33525	20.0	16.7	
7 Bromomethane	94	2.483	2.483	0.000	87	39276	20.0	17.2	M
8 Chloroethane	66	2.599	2.605	-0.006	93	10344	20.0	13.3	
10 Dichlorofluoromethane	67	2.922	2.928	-0.006	81	81880	20.0	17.6	M
14 Trichlorofluoromethane	101	2.959	2.965	-0.006	85	75210	20.0	16.4	M
11 3-Chloro-1-propene	76	2.977	2.977	0.000	68	7443	20.0	17.1	
17 Ethyl ether	59	3.331	3.337	-0.006	86	43395	20.0	19.5	
12 Acrolein	56	3.513	3.519	-0.006	96	62277	120.0	142.3	
19 1,1-Dichloroethene	96	3.702	3.702	0.000	86	42236	20.0	15.4	
16 Acetone	43	3.745	3.745	0.000	100	87172	100.0	99.6	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.745	3.751	-0.006	62	60034	20.0	18.8	
22 Iodomethane	142	3.898	3.910	-0.012	96	106259	20.0	18.6	
26 Carbon disulfide	76	4.019	4.038	-0.019	98	151135	20.0	17.0	M
S 2 Xylenes, Total	100				0		40.0	46.2	
15 Isopropyl alcohol	45	4.044	4.044	0.000	97	43522	200.0	251.2	
13 Acetonitrile	40	4.208	4.208	0.000	99	28279	250.0	308.0	
24 Methyl acetate	43	4.300	4.306	-0.006	95	72509	40.0	36.1	
23 Methylene Chloride	84	4.550	4.562	-0.012	79	69125	20.0	19.9	
* 18 TBA-d9 (IS)	65	4.660	4.647	0.013	0	80154	200.0	200.0	
20 2-Methyl-2-propanol	59	4.818	4.812	0.006	99	91209	200.0	313.6	
21 Acrylonitrile	53	4.977	4.977	0.000	97	199743	200.0	243.5	
27 trans-1,2-Dichloroethene	96	5.062	5.068	-0.006	68	68440	20.0	18.5	
28 Methyl tert-butyl ether	73	5.074	5.074	0.000	82	190043	20.0	21.6	
34 Hexane	57	5.641	5.647	-0.006	90	87937	20.0	18.6	
30 1,1-Dichloroethane	63	5.903	5.903	0.000	85	106582	20.0	19.2	
31 Vinyl acetate	86	5.983	5.982	0.001	97	36679	50.0	49.0	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	74	97919	20.0	20.4	
35 Isopropyl ether	45	6.050	6.049	0.001	92	241695	25.0	28.2	
41 Tert-butyl ethyl ether	87	6.702	6.696	0.006	96	120477	25.0	27.6	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.909	6.915	-0.006	70	74365	20.0	18.2	
37 cis-1,2-Dichloroethene	96	6.921	6.927	-0.006	75	82381	20.0	19.9	
33 2-Butanone (MEK)	72	6.927	6.927	0.000	97	48572	100.0	123.0	
29 Propionitrile	54	7.013	7.007	0.006	91	109303	250.0	318.2	
38 Ethyl acetate	43	7.055	7.055	0.000	98	119984	40.0	50.5	
36 Methacrylonitrile	67	7.263	7.263	0.000	89	300602	200.0	246.0	
39 Chlorobromomethane	130	7.305	7.305	0.000	61	57703	20.0	20.0	
40 Chloroform	83	7.507	7.507	0.000	94	128379	20.0	20.6	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	91	110162	20.0	19.8	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	59	37754	10.0	10.3	
51 Cyclohexane	84	7.799	7.799	0.000	84	102476	20.0	19.2	
52 Carbon tetrachloride	117	7.927	7.927	0.000	83	103365	20.0	19.3	
50 1,1-Dichloropropene	75	7.946	7.939	0.007	93	95362	20.0	19.3	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	34990	10.0	10.4	
53 Benzene	78	8.196	8.195	0.001	95	290095	20.0	19.5	
42 Isobutyl alcohol	43	8.202	8.202	0.000	54	86250	500.0	647.1	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	79	87386	20.0	20.9	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	93	268962	25.0	30.5	
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	99	148451	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.628	0.006	30	23358	40.0	39.1	
56 n-Heptane	43	8.634	8.634	0.000	88	90899	20.0	19.9	
61 Trichloroethene	132	9.025	9.025	0.000	89	97206	20.0	20.0	
57 Ethyl acrylate	55	9.153	9.153	0.000	98	87014	20.0	27.0	
49 n-Butanol	56	9.268	9.262	0.006	36	27957	500.0	489.0	
66 Methylcyclohexane	83	9.268	9.262	0.006	84	133810	20.0	19.6	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	91	67875	20.0	21.0	a
59 Dibromomethane	174	9.390	9.390	0.000	64	68763	20.0	21.7	
63 Methyl methacrylate	69	9.396	9.396	0.000	85	108012	40.0	51.8	
62 Dichlorobromomethane	83	9.592	9.591	0.001	93	105424	20.0	22.7	
58 2-Nitropropane	43	9.805	9.805	0.000	98	43187	40.0	52.4	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	91	30689	20.0	20.9	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	92	125170	20.0	22.8	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	94	147827	100.0	125.3	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	91	152840	10.0	9.74	
74 Toluene	91	10.341	10.341	0.000	98	356861	20.0	19.6	
70 n-Butyl acetate	43	10.476	10.475	0.001	82	9775	20.0	24.6	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	88	116373	20.0	23.7	
73 Ethyl methacrylate	69	10.622	10.622	0.000	81	96888	20.0	27.5	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	89	75080	20.0	22.4	
79 Tetrachloroethene	164	10.817	10.817	0.000	87	93795	20.0	19.0	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	88	117708	20.0	23.0	
76 2-Hexanone	58	10.933	10.933	0.000	90	148383	100.0	127.7	
77 Chlorodibromomethane	129	11.079	11.079	0.000	88	98403	20.0	24.0	
78 Ethylene Dibromide	107	11.171	11.170	0.001	98	76303	20.0	23.1	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	82	131577	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	97	273742	20.0	22.2	
80 1,1,1,2-Tetrachloroethane	131	11.683	11.683	0.000	41	103713	20.0	23.5	
83 Ethylbenzene	91	11.683	11.683	0.000	97	431265	20.0	22.0	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	331968	20.0	22.7	
88 o-Xylene	91	12.115	12.115	0.000	94	336931	20.0	23.4	
86 Styrene	104	12.128	12.128	0.000	94	287170	20.0	24.0	
85 Bromoform	173	12.286	12.286	0.000	98	75570	20.0	24.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
91 Isopropylbenzene	105	12.414	12.414	0.000	94	458145	20.0	23.7	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.561	12.560	0.000	95	65606	10.0	10.4	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	89	90008	20.0	22.7	
93 Bromobenzene	156	12.682	12.682	0.000	81	134382	20.0	21.9	
89 trans-1,4-Dichloro-2-butene	53	12.689	12.688	0.001	53	24608	20.0	23.2	
90 1,2,3-Trichloropropane	110	12.713	12.707	0.006	26	31955	20.0	22.2	
94 N-Propylbenzene	91	12.750	12.749	0.001	88	525817	20.0	22.9	
95 2-Chlorotoluene	126	12.829	12.829	0.000	98	117572	20.0	21.9	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	94	381819	20.0	23.4	
96 4-Chlorotoluene	126	12.926	12.926	0.000	92	122066	20.0	22.4	
98 tert-Butylbenzene	119	13.152	13.152	0.000	88	364410	20.0	23.8	
99 1,2,4-Trimethylbenzene	105	13.195	13.194	0.001	69	390031	20.0	20.1	
100 sec-Butylbenzene	105	13.323	13.322	0.001	93	520984	20.0	23.5	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	96	251078	20.0	22.0	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	96	467092	20.0	23.7	
* 103 1,4-Dichlorobenzene-d4	152	13.487	13.493	-0.006	59	77769	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.512	13.511	0.001	98	250120	20.0	21.7	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	97	390797	20.0	23.7	
101 Benzyl chloride	126	13.591	13.591	0.000	97	43726	20.0	24.4	
108 n-Butylbenzene	134	13.761	13.761	0.000	97	123493	20.0	23.3	
107 1,2-Dichlorobenzene	146	13.792	13.792	0.000	97	238366	20.0	22.5	
109 1,2-Dibromo-3-Chloropropane	157	14.402	14.402	0.000	88	25155	20.0	24.7	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	97	209032	20.0	22.3	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	90	173048	20.0	22.6	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	90	121861	20.0	22.2	
112 Naphthalene	128	15.249	15.249	0.000	96	336757	20.0	26.6	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	92	163903	20.0	24.1	
\$ 118 BFB	95	12.561	12.560	0.000	95	56477	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_005.D

Injection Date: 07-Aug-2020 13:53:30

Instrument ID: TAC119

Lims ID: LCSD 580-335059/3-A

Client ID:

Operator ID: cjb

ALS Bottle#: 5

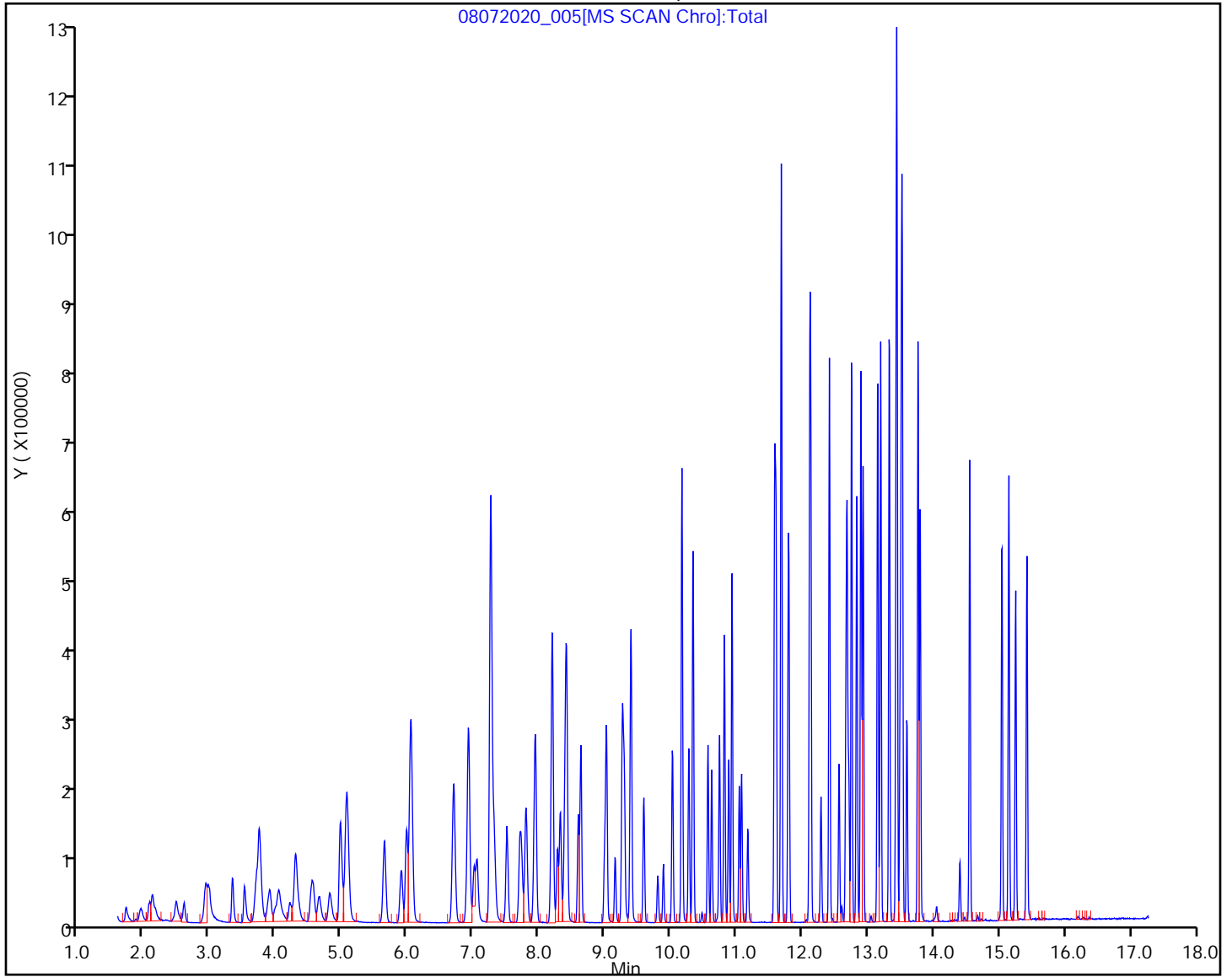
Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_005.D  
 Lims ID: LCSD 580-335059/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 07-Aug-2020 13:53:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: lcsd  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 10-Aug-2020 08:50:01 Calib Date: 14-Jul-2020 19:14:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20200714-71719.b\07142020b\_011.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1032

First Level Reviewer: jantanuc

Date: 10-Aug-2020 08:50:01

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	10.3	102.93
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.57
\$ 72 Toluene-d8 (Surr)	10.0	9.74	97.42
\$ 92 4-Bromofluorobenzene (Surr)	10.0	10.4	104.28
\$ 118 BFB	10.0	0	0.00

Eurofins TestAmerica, Seattle

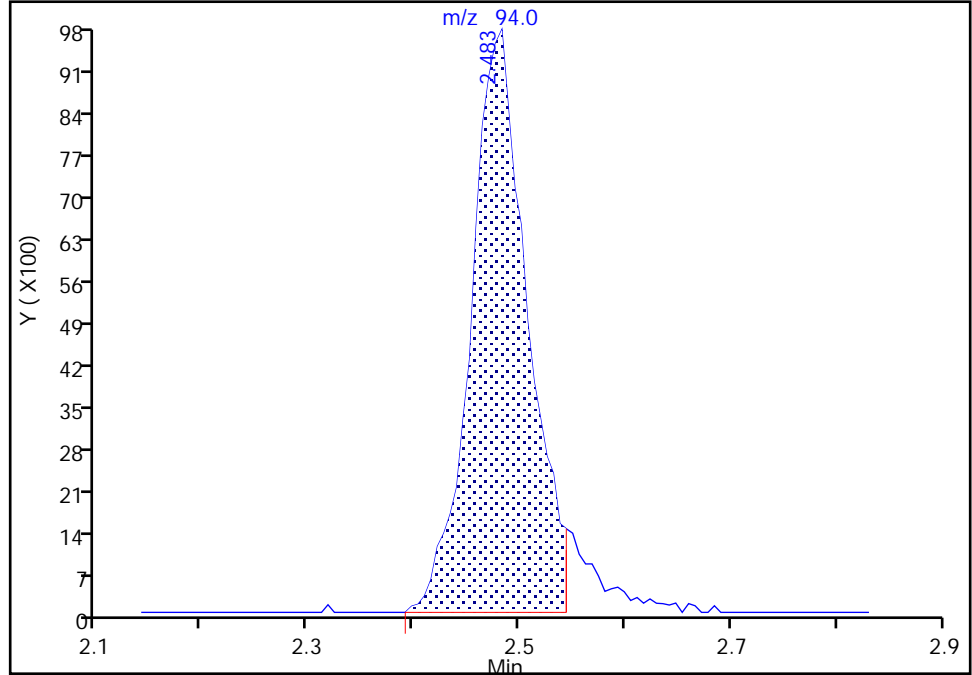
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_005.D  
Injection Date: 07-Aug-2020 13:53:30 Instrument ID: TAC119  
Lims ID: LCSD 580-335059/3-A  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

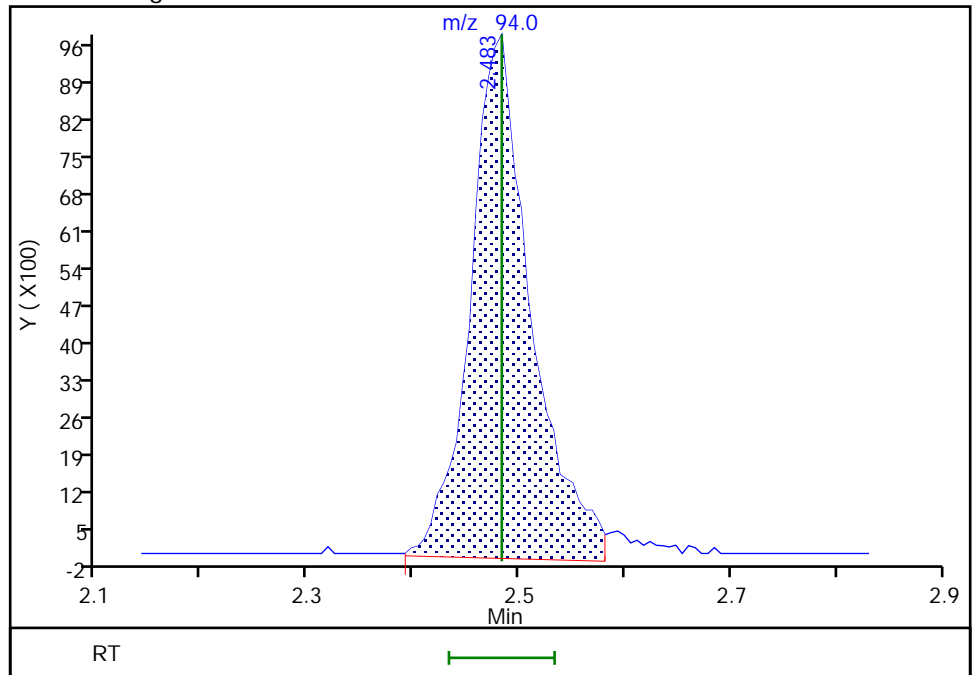
RT: 2.48  
Area: 36380  
Amount: 15.961037  
Amount Units: ug/L

Processing Integration Results



RT: 2.48  
Area: 39276  
Amount: 17.231602  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 08:48:44  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

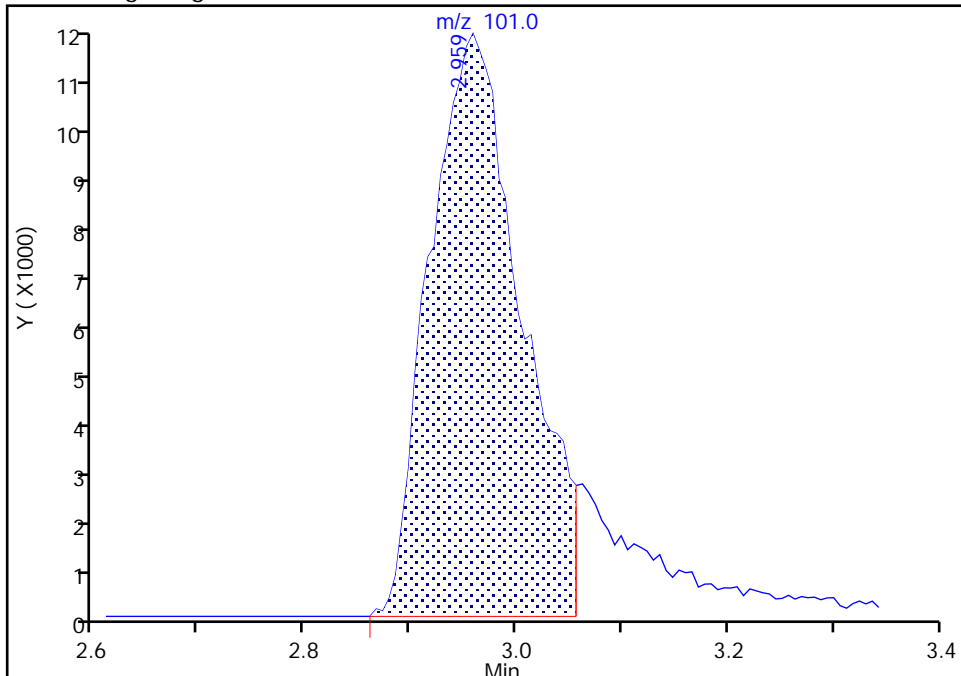
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_005.D  
Injection Date: 07-Aug-2020 13:53:30 Instrument ID: TAC119  
Lims ID: LCSD 580-335059/3-A  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

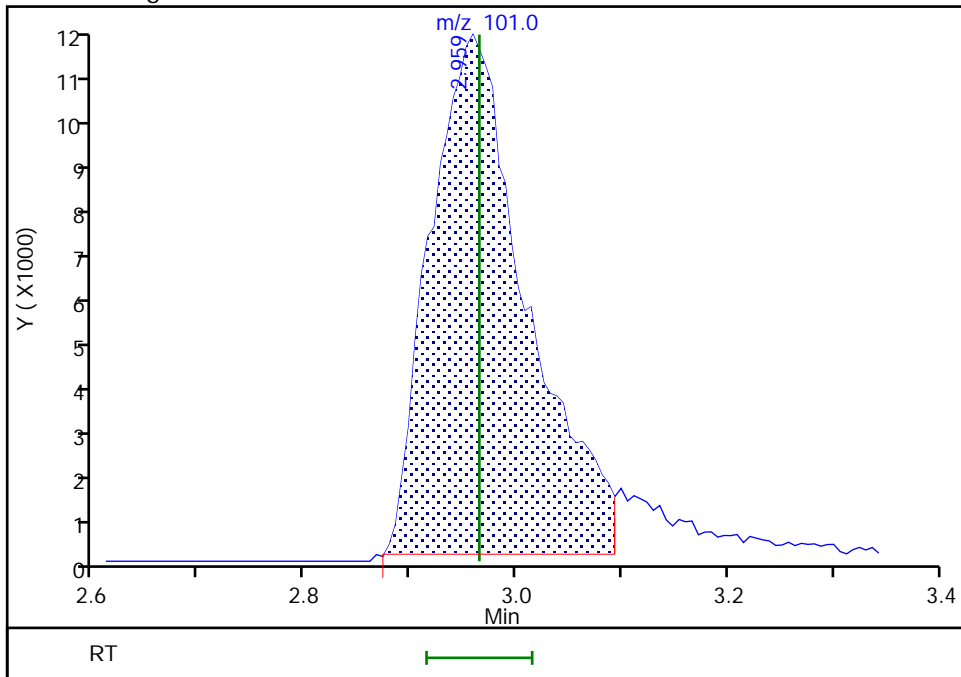
RT: 2.96  
Area: 72752  
Amount: 15.881993  
Amount Units: ug/L

Processing Integration Results



RT: 2.96  
Area: 75210  
Amount: 16.418582  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 10-Aug-2020 08:48:59  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

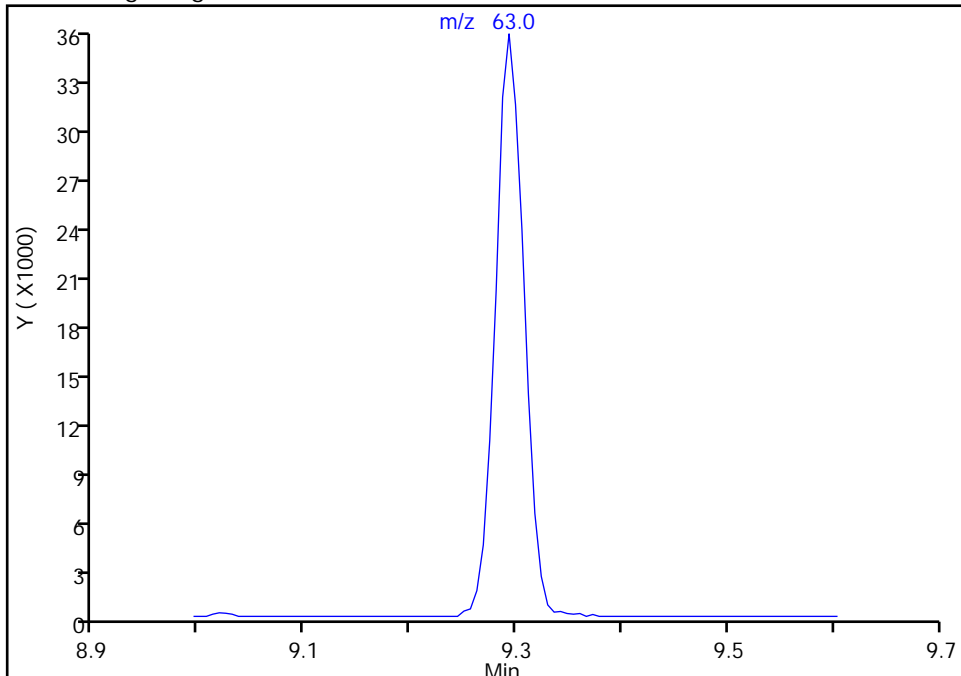
Data File: \\chromfs\Seattle\ChromData\TAC119\20200807-72201.b\08072020\_005.D  
Injection Date: 07-Aug-2020 13:53:30 Instrument ID: TAC119  
Lims ID: LCSD 580-335059/3-A  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

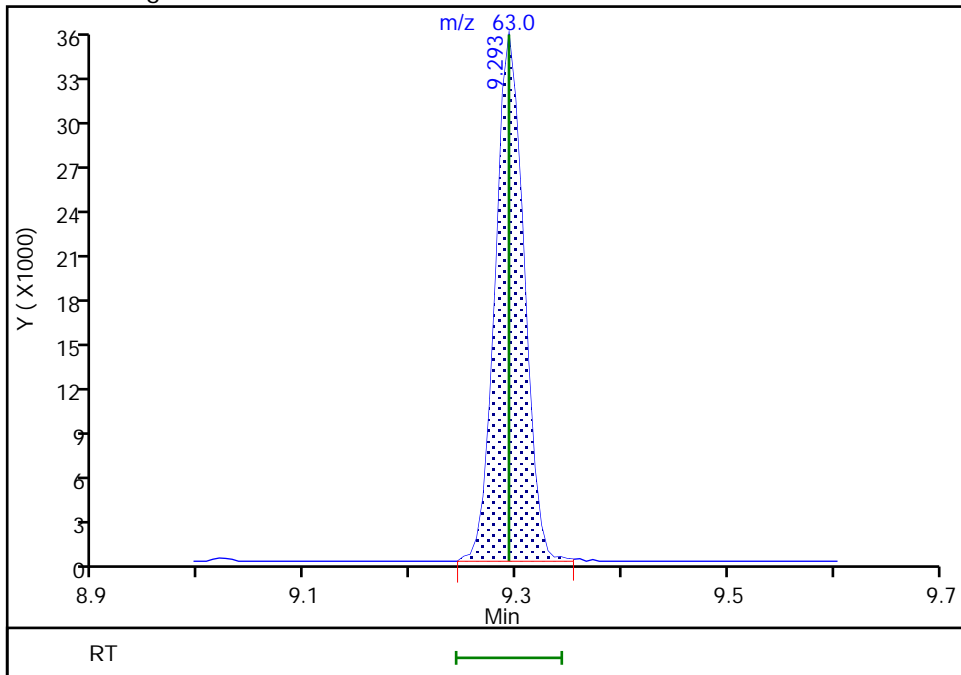
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 67875  
Amount: 21.039107  
Amount Units: ug/L



Reviewer: jantanuc, 10-Aug-2020 08:49:29  
Audit Action: Assigned Compound ID

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Start Date: 07/14/2020 13:24Analysis Batch Number: 332974 End Date: 07/14/2020 20:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-332974/2		07/14/2020 13:24	1	07142020_004.D	624SIL-MS 0.25 (mm)
IC 580-332974/3		07/14/2020 15:42	1	07142020b_003.D	624SIL-MS 0.25 (mm)
IC 580-332974/4		07/14/2020 16:08	1	07142020b_004.D	624SIL-MS 0.25 (mm)
IC 580-332974/5		07/14/2020 16:35	1	07142020b_005.D	624SIL-MS 0.25 (mm)
IC 580-332974/6		07/14/2020 17:01	1	07142020b_006.D	624SIL-MS 0.25 (mm)
IC 580-332974/7		07/14/2020 17:27	1	07142020b_007.D	624SIL-MS 0.25 (mm)
ICIS 580-332974/8		07/14/2020 17:54	1	07142020b_008.D	624SIL-MS 0.25 (mm)
IC 580-332974/9		07/14/2020 18:21	1	07142020b_009.D	624SIL-MS 0.25 (mm)
IC 580-332974/10		07/14/2020 18:47	1	07142020b_010.D	624SIL-MS 0.25 (mm)
ICV 580-332974/13		07/14/2020 20:07	1	07142020b_013.D	624SIL-MS 0.25 (mm)



## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Start Date: 08/07/2020 12:34Analysis Batch Number: 335064 End Date: 08/07/2020 21:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-335064/2		08/07/2020 12:34	1	08072020_002.D	624SIL-MS 0.25 (mm)
CCVIS 580-335064/3		08/07/2020 13:00	1	08072020_003.D	624SIL-MS 0.25 (mm)
LCS 580-335059/2-A		08/07/2020 13:26	1	08072020_004.D	624SIL-MS 0.25 (mm)
LCSD 580-335059/3-A		08/07/2020 13:53	1	08072020_005.D	624SIL-MS 0.25 (mm)
CCVL 580-335064/6		08/07/2020 14:19	1	08072020_006.D	624SIL-MS 0.25 (mm)
MB 580-335059/1-A		08/07/2020 14:46	1	08072020_007.D	624SIL-MS 0.25 (mm)
ZZZZZ		08/07/2020 15:21	1		624SIL-MS 0.25 (mm)
ZZZZZ		08/07/2020 15:48	1		624SIL-MS 0.25 (mm)
ZZZZZ		08/07/2020 16:14	1		624SIL-MS 0.25 (mm)
580-96357-5		08/07/2020 16:40	1	08072020_011.D	624SIL-MS 0.25 (mm)
ZZZZZ		08/07/2020 17:07	1		624SIL-MS 0.25 (mm)
ZZZZZ		08/07/2020 17:34	1		624SIL-MS 0.25 (mm)
ZZZZZ		08/07/2020 18:01	1		624SIL-MS 0.25 (mm)
ZZZZZ		08/07/2020 18:27	1		624SIL-MS 0.25 (mm)
ZZZZZ		08/07/2020 18:53	1		624SIL-MS 0.25 (mm)
ZZZZZ		08/07/2020 19:19	1		624SIL-MS 0.25 (mm)
ZZZZZ		08/07/2020 19:46	1		624SIL-MS 0.25 (mm)
580-96357-1		08/07/2020 20:12	1	08072020_019.D	624SIL-MS 0.25 (mm)
580-96357-2		08/07/2020 20:39	1	08072020_020.D	624SIL-MS 0.25 (mm)
580-96357-3		08/07/2020 21:06	1	08072020_021.D	624SIL-MS 0.25 (mm)
580-96357-4		08/07/2020 21:32	1	08072020_022.D	624SIL-MS 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Batch Number: 335059 Batch Start Date: 08/07/20 15:20 Batch Analyst: Bohn, Christina J

Batch Method: 5035 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	VOAMasterMix 00058	VoaSand 00069
MB 580-335059/1		5035, 8260D				5 g	5 mL		5 g
LCS 580-335059/2		5035, 8260D				5 g	5 mL	2 uL	5 g
LCSD 580-335059/3		5035, 8260D				5 g	5 mL	2 uL	5 g
580-96357-C-5	Trip-Blank-01	5035, 8260D	T			5 g	5 mL		
580-96357-C-1	AB-01A-9.0	5035, 8260D	T	+025.784 g	32.32 g	6.536 g	5 mL		
580-96357-C-2	AB-02A-16.0	5035, 8260D	T	+026.201 g	32.27 g	6.069 g	5 mL		
580-96357-C-3	AB-03A-15.0	5035, 8260D	T	+026.147 g	32.14 g	5.993 g	5 mL		
580-96357-C-4	AB-04A-14.0	5035, 8260D	T	+026.178 g	32.92 g	6.742 g	5 mL		

Batch Notes	
Balance ID	sea225
Blank Matrix ID	2610673
Pipette/Syringe/Dispenser ID	mp2
Vial Lot Number	0103101F

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.

# GENERAL CHEMISTRY

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job Number: 580-96357-1

SDG No.: \_\_\_\_\_

Project: New City Cleaners

Client Sample ID	Lab Sample ID
<u>AB-01A-9.0</u>	<u>580-96357-1</u>
<u>AB-02A-16.0</u>	<u>580-96357-2</u>
<u>AB-03A-15.0</u>	<u>580-96357-3</u>
<u>AB-04A-14.0</u>	<u>580-96357-4</u>

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle

Job Number: 580-96357-1

SDG Number: \_\_\_\_\_

Matrix: Solid

Instrument ID: NOEQUIP

Method: 2540G

RL Date: 01/01/2005 13:13

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	





GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Batch Number: 334411 Batch Start Date: 07/30/20 17:50 Batch Analyst: Pham, Huu B

Batch Method: 2540G Batch End Date: 07/31/20 07:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
580-96357-D-1	AB-01A-9.0	2540G	T	0.841 g	9.670 g	7.795 g			

Batch Notes	
Balance ID	SEA232
Batch Comment	HBP/ACV
Date samples were placed in the oven	07/30/2020
Oven Temp In	113.9 Degrees C
Time samples were place in the oven	18:21
Date samples were removed from oven	07/31/2020
Oven Temp Out	114.1 Degrees C
Time Samples were removed from oven	07:42
Oven ID	Oven #2
Thermometer ID	Digital Readout
Temperature - Start - Uncorrected	109.8 Degrees C
Temperature - End - Uncorrected	110.0 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.



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-96357-1

SDG No.: \_\_\_\_\_

Batch Number: 334415 Batch Start Date: 07/30/20 18:35 Batch Analyst: Pham, Huu B

Batch Method: 2540G Batch End Date: 07/31/20 07:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
580-96357-D-2	AB-02A-16.0	2540G	T	0.702 g	9.626 g	7.687 g			
580-96357-D-3	AB-03A-15.0	2540G	T	0.680 g	10.499 g	8.476 g			
580-96357-D-4	AB-04A-14.0	2540G	T	0.697 g	11.848 g	9.580 g			

Batch Notes	
Balance ID	SEA232
Batch Comment	HBP/ACV
Date samples were placed in the oven	07/30/2020
Oven Temp In	115.0 Degrees C
Time samples were place in the oven	19:12
Date samples were removed from oven	07/31/2020
Oven Temp Out	114.1 Degrees C
Time Samples were removed from oven	07:50
Oven ID	Oven #2
Thermometer ID	Digital Readout
Temperature - Start - Uncorrected	110.9 Degrees C
Temperature - End - Uncorrected	110.0 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

**Eurofins TestAmerica, Seattle**

5755 8th Street East  
Tacoma, WA 98424  
Phone: 253-922-2310 Fax: 253-922-5047

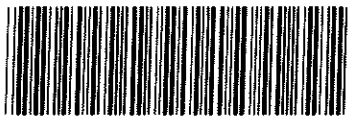
**Chain of Custody Record**

96357

eurofins

Environment Testing  
America

<b>Client Information</b>			Sampler: <i>Breegh Green</i>	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-39422-12592.1			
Client Contact: Ms. Lea Beard			Phone: <i>612 232 7343</i>	E-Mail: Nathan.Lewis@Eurofinset.com		Page: Page 1 of 2			
Company: Aspect Consulting			<b>Analysis Requested</b>			Job #: <i>090018</i>			
Address: 350 Madison Ave N						Due Date Requested:			
City: Bainbridge Island			TAT Requested (days): <i>Standard</i>			<b>Preservation Codes:</b> A - HCL                      M - Hexane B - NaOH                    N - None C - Zn Acetate              O - AsNaO2 D - Nitric Acid              P - Na2O4S E - NaHSO4                 Q - Na2SO3 F - MeOH                    R - Na2S2O3 G - Amchlor                S - H2SO4 H - Ascorbic Acid          T - TSP Dodecahydrate I - Ice                         U - Acetone J - DI Water                V - MCAA K - EDTA                    W - pH 4-5 L - EDA                      Z - other (specify)  Other:			
State, Zip: WA, 98110			PO #: 090018                      ✓						
Phone:			WO #:						
Email: lbeard@aspectconsulting.com; <i>bgreer@aspectconsulting.com</i>			Project #: 58004380						
Project Name: New City Cleaners			SSOW#:						
Site: <i>New City Cleaners</i>									
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	B269D - Standard List Volatile Organics	Total Number of Containers	Special Instructions/Note:
<i>AB-01A-9.0</i>	<i>7/28/20</i>	<i>1120</i>	<i>G</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>4</i>	
<i>AB-02A-16.0</i>	<i>7/26/20</i>	<i>1145</i>	<i>G</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>4</i>	
<i>AB-03A-15.0</i>	<i>7/28/20</i>	<i>1230</i>	<i>G</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>9</i>	
<i>AB-04A-14.0</i>	<i>7/28/20</i>	<i>1315</i>	<i>G</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>4</i>	
<i>Trip-Blank-01</i>	<i>7/28/20</i>	<i>1030</i>	<i>G</i>	<i>Solid</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>3</i>	
				<i>Solid</i>					
				<i>Solid</i>					



580-96357 Chain of Custody

Therm. ID: *A1* Cor: *0.4 °* Unc: *0.3 °*  
 Cooler Dsc: *2g Blue*  
 Packing: *2.6* FedEx: *PO*  
 Cust. Seal: Yes  No  UPS:  
 Blue Ice:  Wet  Dry, None  Lab Cour:  
 Other:

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month ) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested: I, II, III, IV, Other (specify) <i>Aspect Standard</i>			Special Instructions/QC Requirements: <i>Do standard GC/MS/MSD for this project</i>		
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: <i>Breegh Green</i>	Date/Time: <i>7/28/20 @1430</i>	Company: <i>Aspect</i>	Received by: <i>Tom Blanks</i>	Date/Time: <i>7/29/20 0950</i>	Company: <i>TA-Sea</i>
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact:  Yes  No  
 Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

# Login Sample Receipt Checklist

Client: Aspect Consulting

Job Number: 580-96357-1

**Login Number: 96357**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

<b>Question</b>	<b>Answer</b>	<b>Comment</b>
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

September 9, 2020

Breeyn Greer, Project Manager  
Aspect Consulting, LLC  
710 2<sup>nd</sup> Ave S, Suite 550  
Seattle, WA 98104

Dear Ms Greer:

Included are the results from the testing of material submitted on August 21, 2020 from the New City Cleaners 090018, F&BI 008339 project. There are 6 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
c: Aspect Data  
ASP0909R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 21, 2020 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC New City Cleaners 090018, F&BI 008339 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
008339 -01	SVE-01-082020
008339 -02	SVE-02-082020

All quality control requirements were acceptable.

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SVE-01-082020	Client:	Aspect Consulting, LLC
Date Received:	08/21/20	Project:	New City Cleaners 090018
Date Collected:	08/29/20	Lab ID:	008339-01 1/43
Date Analyzed:	08/29/20	Data File:	082824.D
Matrix:	Air	Instrument:	GCMS12
Units:	ug/m3	Operator:	VM

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	102	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<11	<4.3
Chloroethane	<110	<43
1,1-Dichloroethene	<17	<4.3
trans-1,2-Dichloroethene	<17	<4.3
1,1-Dichloroethane	<17	<4.3
cis-1,2-Dichloroethene	23	5.8
1,2-Dichloroethane (EDC)	<1.7	<0.43
1,1,1-Trichloroethane	<23	<4.3
Trichloroethene	38	7.1
1,1,2-Trichloroethane	<4.7	<0.86
Tetrachloroethene	<290	<43

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SVE-02-082020	Client:	Aspect Consulting, LLC
Date Received:	08/21/20	Project:	New City Cleaners 090018
Date Collected:	08/29/20	Lab ID:	008339-02 1/43
Date Analyzed:	08/29/20	Data File:	082825.D
Matrix:	Air	Instrument:	GCMS12
Units:	ug/m3	Operator:	VM

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	107	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<11	<4.3
Chloroethane	<110	<43
1,1-Dichloroethene	<17	<4.3
trans-1,2-Dichloroethene	<17	<4.3
1,1-Dichloroethane	<17	<4.3
cis-1,2-Dichloroethene	210	54
1,2-Dichloroethane (EDC)	<1.7	<0.43
1,1,1-Trichloroethane	<23	<4.3
Trichloroethene	270	51
1,1,2-Trichloroethane	<4.7	<0.86
Tetrachloroethene	1,500	220



# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	New City Cleaners 090018
Date Collected:	Not Applicable	Lab ID:	00-1935 MB
Date Analyzed:	08/28/20	Data File:	082810.D
Matrix:	Air	Instrument:	GCMS12
Units:	ug/m3	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	98	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
Chloroethane	<2.6	<1
1,1-Dichloroethene	<0.4	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
1,1-Dichloroethane	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01
1,1,1-Trichloroethane	<0.55	<0.1
Trichloroethene	<0.27	<0.05
1,1,2-Trichloroethane	<0.11	<0.02
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/09/20

Date Received: 08/21/20

Project: New City Cleaners 090018, F&BI 008339

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES  
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 008431-04 1/3.2 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Vinyl chloride	ug/m3	<0.82	97	nm
Chloroethane	ug/m3	<8.4	68	nm
1,1-Dichloroethene	ug/m3	<1.3	<1.3	nm
trans-1,2-Dichloroethene	ug/m3	<1.3	3.7	nm
1,1-Dichloroethane	ug/m3	<1.3	4.1	nm
cis-1,2-Dichloroethene	ug/m3	<1.3	<1.3	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.13	3.5	nm
1,1,1-Trichloroethane	ug/m3	<1.7	<1.7	nm
Trichloroethene	ug/m3	<0.86	<0.86	nm
1,1,2-Trichloroethane	ug/m3	<0.35	<0.35	nm
Tetrachloroethene	ug/m3	<22	<22	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	ug/m3	35	98	70-130
Chloroethane	ug/m3	36	98	70-130
1,1-Dichloroethene	ug/m3	54	105	70-130
trans-1,2-Dichloroethene	ug/m3	54	98	70-130
1,1-Dichloroethane	ug/m3	55	95	70-130
cis-1,2-Dichloroethene	ug/m3	54	93	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	90	70-130
1,1,1-Trichloroethane	ug/m3	74	87	70-130
Trichloroethene	ug/m3	73	90	70-130
1,1,2-Trichloroethane	ug/m3	74	90	70-130
Tetrachloroethene	ug/m3	92	84	70-130

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

008339

SAMPLE CHAIN OF CUSTODY

ME 08/21/20

Page # 1 of 1

Report To Breygn Greer

Company Aspect

Address 716 2nd Ave Ste 550

City, State, ZIP Seattle WA 98104

Phone 6022327343 Email bgreer@aspectconsulting.com

SAMPLERS (signature) <u>Breygn Greer</u>	PROJECT NAME & ADDRESS <u>New City Cleaners</u>
PO # <u>090018</u>	NOTES: <u>Hot!</u>
INVOICE TO <u>AP</u>	

TURNAROUND TIME	SAMPLE DISPOSAL
<input checked="" type="checkbox"/> Standard	<input checked="" type="checkbox"/> Default: Clean after 3 days
<input type="checkbox"/> RUSH	<input type="checkbox"/> Archive (Fee may apply)
Rush charges authorized by:	

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	ANALYSIS REQUESTED				Notes
										TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	
SUE-01-082020	01	3476	117	IA / <u>SG</u>	8/20	31.5	1026	5.5	1036					PID 9
SUE-02-082020	02	3412	07	IA / <u>SG</u>	8/20	29.0	1036	5.0	1046					PID 17
				IA / SG										
				IA / SG										
				IA / SG										
				IA / SG										
				IA / SG										
				IA / SG										
				IA / SG										

Samples received at 23 °C

Friedman & Bruja, Inc.

3012 16th Avenue West  
Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>Breygn Greer</u>	<u>Breygn Greer</u>					8/20/20	1700
Received by: <u>Phan Phan</u>	<u>Phan Phan</u>			<u>Aspect</u>		8/20/20	1520
Relinquished by:							
Received by:							

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Yelena Aravkina, M.S.  
Michael Erdahl, B.S.  
Arina Podnozova, B.S.  
Eric Young, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

October 9, 2020

Breeyn Greer, Project Manager  
Aspect Consulting, LLC  
710 2<sup>nd</sup> Ave S, Suite 550  
Seattle, WA 98104

Dear Ms Greer:

Included are the results from the testing of material submitted on September 30, 2020 from the New City Cleaners PO 090018, F&BI 009560 project. There are 10 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl  
Project Manager

Enclosures  
c: Aspect Data  
ASP1009R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 30, 2020 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC New City Cleaners PO 090018, F&BI 009560 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
009560 -01	SVE-01-092820
009560 -02	SVE-02-092820
009560 -03	VP-06-092920
009560 -04	VP-07-092920
009560 -05	VP-08-092920
009560 -06	VP-09-092920

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SVE-01-092820	Client:	Aspect Consulting, LLC
Date Received:	09/30/20	Project:	New City Cleaners PO 090018
Date Collected:	09/28/20	Lab ID:	009560-01 1/41
Date Analyzed:	10/07/20	Data File:	100630.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<10	<4.1
Chloroethane	<110	<41
1,1-Dichloroethene	<16	<4.1
trans-1,2-Dichloroethene	<16	<4.1
1,1-Dichloroethane	<17	<4.1
cis-1,2-Dichloroethene	<16	<4.1
1,2-Dichloroethane (EDC)	<1.7	<0.41
1,1,1-Trichloroethane	<22	<4.1
Trichloroethene	16	2.9
1,1,2-Trichloroethane	<2.2	<0.41
Tetrachloroethene	<280	<41

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SVE-02-092820	Client:	Aspect Consulting, LLC
Date Received:	09/30/20	Project:	New City Cleaners PO 090018
Date Collected:	09/28/20	Lab ID:	009560-02 1/42
Date Analyzed:	10/07/20	Data File:	100631.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	99	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<11	<4.2
Chloroethane	<110	<42
1,1-Dichloroethene	<17	<4.2
trans-1,2-Dichloroethene	<17	<4.2
1,1-Dichloroethane	<17	<4.2
cis-1,2-Dichloroethene	190	47
1,2-Dichloroethane (EDC)	<1.7	<0.42
1,1,1-Trichloroethane	<23	<4.2
Trichloroethene	370	69
1,1,2-Trichloroethane	<2.3	<0.42
Tetrachloroethene	2,700	390



# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VP-06-092920	Client:	Aspect Consulting, LLC
Date Received:	09/30/20	Project:	New City Cleaners PO 090018
Date Collected:	09/28/20	Lab ID:	009560-03 1/5.6
Date Analyzed:	10/06/20	Data File:	100625.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	100	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<1.4	<0.56
Chloroethane	<15	<5.6
1,1-Dichloroethene	<2.2	<0.56
trans-1,2-Dichloroethene	<2.2	<0.56
1,1-Dichloroethane	<2.3	<0.56
cis-1,2-Dichloroethene	<2.2	<0.56
1,2-Dichloroethane (EDC)	<0.23	<0.056
1,1,1-Trichloroethane	<3.1	<0.56
Trichloroethene	1.4	0.27
1,1,2-Trichloroethane	<0.31	<0.056
Tetrachloroethene	<38	<5.6

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VP-07-092920	Client:	Aspect Consulting, LLC
Date Received:	09/30/20	Project:	New City Cleaners PO 090018
Date Collected:	09/28/20	Lab ID:	009560-04 1/5.8
Date Analyzed:	10/07/20	Data File:	100627.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	104	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<1.5	<0.58
Chloroethane	<15	<5.8
1,1-Dichloroethene	<2.3	<0.58
trans-1,2-Dichloroethene	<2.3	<0.58
1,1-Dichloroethane	<2.3	<0.58
cis-1,2-Dichloroethene	<2.3	<0.58
1,2-Dichloroethane (EDC)	<0.23	<0.058
1,1,1-Trichloroethane	<3.2	<0.58
Trichloroethene	0.97	0.18
1,1,2-Trichloroethane	<0.32	<0.058
Tetrachloroethene	<39	<5.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VP-08-092920	Client:	Aspect Consulting, LLC
Date Received:	09/30/20	Project:	New City Cleaners PO 090018
Date Collected:	09/28/20	Lab ID:	009560-05 1/5.8
Date Analyzed:	10/07/20	Data File:	100628.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	96	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<1.5	<0.58
Chloroethane	<15	<5.8
1,1-Dichloroethene	<2.3	<0.58
trans-1,2-Dichloroethene	<2.3	<0.58
1,1-Dichloroethane	<2.3	<0.58
cis-1,2-Dichloroethene	<2.3	<0.58
1,2-Dichloroethane (EDC)	<0.23	<0.058
1,1,1-Trichloroethane	<3.2	<0.58
Trichloroethene	3.7	0.69
1,1,2-Trichloroethane	<0.32	<0.058
Tetrachloroethene	48	7.0

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	VP-09-092920	Client:	Aspect Consulting, LLC
Date Received:	09/30/20	Project:	New City Cleaners PO 090018
Date Collected:	09/28/20	Lab ID:	009560-06 1/5.7
Date Analyzed:	10/07/20	Data File:	100629.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	87	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<1.5	<0.57
Chloroethane	<15	<5.7
1,1-Dichloroethene	<2.3	<0.57
trans-1,2-Dichloroethene	<2.3	<0.57
1,1-Dichloroethane	<2.3	<0.57
cis-1,2-Dichloroethene	<2.3	<0.57
1,2-Dichloroethane (EDC)	<0.23	<0.057
1,1,1-Trichloroethane	<3.1	<0.57
Trichloroethene	1.7	0.31
1,1,2-Trichloroethane	<0.31	<0.057
Tetrachloroethene	<39	<5.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	New City Cleaners PO 090018
Date Collected:	Not Applicable	Lab ID:	00-2239 MB
Date Analyzed:	10/06/20	Data File:	100621.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	105	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
Chloroethane	<2.6	<1
1,1-Dichloroethene	<0.4	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
1,1-Dichloroethane	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01
1,1,1-Trichloroethane	<0.55	<0.1
Trichloroethene	<0.11	<0.02
1,1,2-Trichloroethane	<0.055	<0.01
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/09/20

Date Received: 09/30/20

Project: New City Cleaners PO 090018, F&BI 009560

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES  
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 009560-03 1/5.6 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Vinyl chloride	ug/m3	<1.4	<1.4	nm
Chloroethane	ug/m3	<15	<15	nm
1,1-Dichloroethene	ug/m3	<2.2	<2.2	nm
trans-1,2-Dichloroethene	ug/m3	<2.2	<2.2	nm
1,1-Dichloroethane	ug/m3	<2.3	<2.3	nm
cis-1,2-Dichloroethene	ug/m3	<2.2	<2.2	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.23	<0.23	nm
1,1,1-Trichloroethane	ug/m3	<3.1	<3.1	nm
Trichloroethene	ug/m3	1.4	1.4	0
1,1,2-Trichloroethane	ug/m3	<0.31	<0.31	nm
Tetrachloroethene	ug/m3	<38	<38	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Vinyl chloride	ug/m3	35	113	70-130
Chloroethane	ug/m3	36	111	70-130
1,1-Dichloroethene	ug/m3	54	114	70-130
trans-1,2-Dichloroethene	ug/m3	54	111	70-130
1,1-Dichloroethane	ug/m3	55	114	70-130
cis-1,2-Dichloroethene	ug/m3	54	115	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	115	70-130
1,1,1-Trichloroethane	ug/m3	74	112	70-130
Trichloroethene	ug/m3	73	115	70-130
1,1,2-Trichloroethane	ug/m3	74	115	70-130
Tetrachloroethene	ug/m3	92	110	70-130

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

009560

SAMPLE CHAIN OF CUSTODY

NE 09/30/20

Page # 1 of 1

Report To Brynn Green

Company Aspect

Address 710 2nd Ave Ste 550

City, State, ZIP Seattle WA 98104

Phone 2062327343 Email bgr@aspect.com

SAMPLERS (signature) Brynn Green

PROJECT NAME & ADDRESS New City Cleaners

PO # 090018

NOTES: Some SV6, some are sub-slab

INVOICE TO NP

TURNAROUND TIME  
 Standard  
 RUSH  
Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL  
 Default: Clean after 3 days  
 Archive (Fee may apply)

SAMPLE INFORMATION

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. (Hg)	Field Initial Time	Final Vac. (Hg)	Field Final Time	ANALYSIS REQUESTED	Notes
SV6-01-092820	61	2294	224	IA / <u>SG</u>	9/28/20	30.5	0819	5.0	0826	TO15 Full Scan TO15 BTEXN TO15 cVOCs	PIQ ~ 7
SV6-02-092820	62	3312	220	IA / <u>SG</u>	9/28/20	30.5	0829	5.0	0836	X	5
VP-06-092920	03	2435	228	IA / <u>SG</u>	9/29	29.5	1420	4.5	1426	X	2
VP-07-092920	64	3386	18	IA / <u>SG</u>	9/29	30.0	1516	5.0	1522	X	2
VP-08-092920	05	3540	225	IA / <u>SG</u>	9/29	30.0	1547	5.0	1552	X	2
VP-09-092920	06	8207	221	IA / <u>SG</u>	9/29	31.0	1618	5.0	1625	X	2
				IA / SG							
				IA / SG							
				IA / SG							

Samples received at 2/1

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: Brynn Green

Brynn Green

Aspect

9/30/20

1300

Received by: Stephanie Green

Stephanie Green

Aspect

9/30/20

1:50

Relinquished by: Stephanie Green

Stephanie Green

Aspect

9/30/20

12:14

Received by: Mike Plummer

Mike Plummer

FERI

9/30/20

1452



## ANALYTICAL REPORT

Job Number: 580-98033-1

Job Description: New City Cleaners

For:

Aspect Consulting  
710 Second Avenue  
Suite 550  
Seattle, WA 98104

Attention: Breeyn Greer



Approved for release.  
Nathan A Lewis  
Project Manager I  
10/20/2020 2:50 PM

---

Nathan A Lewis, Project Manager I  
5755 8th Street East, Tacoma, WA, 98424  
(253)922-2310  
Nathan.Lewis@Eurofinset.com  
10/20/2020

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The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

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.

**Eurofins TestAmerica, Seattle**

5755 8th Street East, Tacoma, WA 98424

Tel (253) 922-2310 Fax (253) 922-5047 [www.testamericainc.com](http://www.testamericainc.com)

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# Definitions/Glossary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

**CASE NARRATIVE**  
**Client: Aspect Consulting**  
**Project: New City Cleaners**  
**Report Number: 580-98033-1**

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) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

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 10/06/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.4 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 AB-01B-15.5 (580-98033-1), AB-02B-16.5 (580-98033-2), AB-03B-16.5 (580-98033-3), AB-04B-16.5 (580-98033-4) and Trip-Blank-02 (580-98033-5) were analyzed for volatile organic compounds (GC-MS) in accordance with 8260D.** The samples were prepared on 10/06/2020 and analyzed on 10/07/2020 and 10/14/2020.

Surrogate recovery for the following sample was outside control limits: AB-03B-16.5 (580-98033-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The laboratory control sample duplicate (LCS) for preparation batch 580-340245 and analytical batch 580-340383 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane and 1,3-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) associated with batch 580-340383 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-Chloropropane, 1,2-Dichlorobenzene, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 4-Isopropyltoluene, Chlorobenzene, Chloroethane, Dibromomethane, Ethylbenzene, Ethylene Dibromide, Isopropylbenzene, n-Butylbenzene, N-Propylbenzene, o-Xylene, sec-Butylbenzene, tert-Butylbenzene, and Tetrachloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 580-340383/3).

The continuing calibration verification (CCV) associated with batch 580-340383 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-340383 was outside criteria for the following analyte(s): Dichlorodifluoromethane. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Baseline noise is present in chromatography for sample Trip-Blank-02 (580-98033-5), affecting surrogate recovery. Only one vial was provided; there is no volume remaining for reanalysis, therefore data is reported.

The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: AB-02B-16.5 (580-98033-2), AB-03B-16.5 (580-98033-3) and AB-04B-16.5 (580-98033-4). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 5g. The amount provided was above this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**DIESEL AND EXTENDED RANGE ORGANICS**

**Samples AB-01B-15.5 (580-98033-1), AB-02B-16.5 (580-98033-2), AB-03B-16.5 (580-98033-3) and AB-04B-16.5 (580-98033-4) were analyzed for diesel and extended range organics in accordance with Method NWTPH-Dx.** The samples were prepared on 10/13/2020 and analyzed on 10/14/2020.

Continuing calibration verification (CCV) standard associated with batch 580-340757 recovered outside %Drift acceptance criteria for o-Terphenyl surrogate. The %Recovery is within acceptance criteria for the surrogate in the CCV and associated samples; therefore, the data are qualified and reported.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**PERCENT SOLIDS**

**Samples AB-01B-15.5 (580-98033-1), AB-02B-16.5 (580-98033-2), AB-03B-16.5 (580-98033-3) and AB-04B-16.5 (580-98033-4) were analyzed for percent solids in accordance with ASTM D2216.** The samples were analyzed on 10/08/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

## Client Sample ID: AB-01B-15.5

Lab Sample ID: 580-98033-1

No Detections.

## Client Sample ID: AB-02B-16.5

Lab Sample ID: 580-98033-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	10		5.0		ug/Kg	1	☼	8260D	Total/NA
sec-Butylbenzene - RA	17		3.2		ug/Kg	1	☼	8260D	Total/NA
#2 Diesel (C10-C24)	93		63		mg/Kg	1	☼	NWTPH-Dx	Total/NA

## Client Sample ID: AB-03B-16.5

Lab Sample ID: 580-98033-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.1		3.1		ug/Kg	1	☼	8260D	Total/NA
1,2,4-Trimethylbenzene - RA	13		5.0		ug/Kg	1	☼	8260D	Total/NA
sec-Butylbenzene - RA	21		3.0		ug/Kg	1	☼	8260D	Total/NA
#2 Diesel (C10-C24)	230		64		mg/Kg	1	☼	NWTPH-Dx	Total/NA

## Client Sample ID: AB-04B-16.5

Lab Sample ID: 580-98033-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.5		2.9		ug/Kg	1	☼	8260D	Total/NA

## Client Sample ID: Trip-Blank-02

Lab Sample ID: 580-98033-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Seattle



# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

**Client Sample ID: AB-01B-15.5**

**Lab Sample ID: 580-98033-1**

**Date Collected: 10/05/20 12:05**

**Matrix: Solid**

**Date Received: 10/06/20 11:55**

**Percent Solids: 77.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Chloromethane	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Vinyl chloride	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Bromomethane	ND		1.3		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Chloroethane	ND		13		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Trichlorofluoromethane	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,1-Dichloroethene	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Methylene Chloride	ND		54		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Methyl tert-butyl ether	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
trans-1,2-Dichloroethene	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,1-Dichloroethane	ND		1.3		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
2,2-Dichloropropane	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
cis-1,2-Dichloroethene	ND		4.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Chlorobromomethane	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Chloroform	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,1,1-Trichloroethane	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Carbon tetrachloride	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,1-Dichloropropene	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Benzene	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,2-Dichloroethane	ND		1.3		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Trichloroethene	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,2-Dichloropropane	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Dibromomethane	ND		1.3		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Dichlorobromomethane	ND		1.3		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
cis-1,3-Dichloropropene	ND		1.3		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Toluene	ND		13		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
trans-1,3-Dichloropropene	ND		13		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,1,2-Trichloroethane	ND	*	2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Tetrachloroethene	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,3-Dichloropropane	ND	*	2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Chlorodibromomethane	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Ethylene Dibromide	ND		1.3		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Chlorobenzene	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,1,1,2-Tetrachloroethane	ND		4.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Ethylbenzene	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
m-Xylene & p-Xylene	ND		13		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
o-Xylene	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Styrene	ND		4.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Bromoform	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Isopropylbenzene	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Bromobenzene	ND		13		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,1,2,2-Tetrachloroethane	ND	*	5.4		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,2,3-Trichloropropane	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
N-Propylbenzene	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
2-Chlorotoluene	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
4-Chlorotoluene	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
tert-Butylbenzene	ND		4.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,2,4-Trimethylbenzene	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
sec-Butylbenzene	ND		4.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1

# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

**Client Sample ID: AB-01B-15.5**

**Lab Sample ID: 580-98033-1**

**Date Collected: 10/05/20 12:05**

**Matrix: Solid**

**Date Received: 10/06/20 11:55**

**Percent Solids: 77.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,3-Dichlorobenzene	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,4-Dichlorobenzene	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
n-Butylbenzene	ND		4.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,2-Dichlorobenzene	ND		13		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,2-Dibromo-3-Chloropropane	ND		13		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,2,4-Trichlorobenzene	ND		2.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Hexachlorobutadiene	ND		4.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Naphthalene	ND		13		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,2,3-Trichlorobenzene	ND		4.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
1,3,5-Trimethylbenzene	ND		6.7		ug/Kg	☼	10/06/20 16:16	10/07/20 17:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120				10/06/20 16:16	10/07/20 17:20	1
1,2-Dichloroethane-d4 (Surr)	95		80 - 121				10/06/20 16:16	10/07/20 17:20	1
4-Bromofluorobenzene (Surr)	95		80 - 120				10/06/20 16:16	10/07/20 17:20	1
Dibromofluoromethane (Surr)	95		80 - 120				10/06/20 16:16	10/07/20 17:20	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		64		mg/Kg	☼	10/13/20 10:35	10/14/20 17:06	1
Motor Oil (>C24-C36)	ND		64		mg/Kg	☼	10/13/20 10:35	10/14/20 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150				10/13/20 10:35	10/14/20 17:06	1

**Client Sample ID: AB-02B-16.5**

**Lab Sample ID: 580-98033-2**

**Date Collected: 10/05/20 12:35**

**Matrix: Solid**

**Date Received: 10/06/20 11:55**

**Percent Solids: 77.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Chloromethane	ND		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Vinyl chloride	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Bromomethane	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Chloroethane	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Trichlorofluoromethane	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,1-Dichloroethene	ND		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Methylene Chloride	ND		40		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Methyl tert-butyl ether	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,1-Dichloroethane	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
2,2-Dichloropropane	ND		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
cis-1,2-Dichloroethene	ND		3.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Chlorobromomethane	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Chloroform	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Carbon tetrachloride	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,1-Dichloropropene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Benzene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

**Client Sample ID: AB-02B-16.5**

**Lab Sample ID: 580-98033-2**

**Date Collected: 10/05/20 12:35**

**Matrix: Solid**

**Date Received: 10/06/20 11:55**

**Percent Solids: 77.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Trichloroethene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,2-Dichloropropane	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Dibromomethane	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Dichlorobromomethane	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Toluene	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
trans-1,3-Dichloropropene	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,1,2-Trichloroethane	ND	*	2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Tetrachloroethene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,3-Dichloropropane	ND	*	2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Chlorodibromomethane	ND		1.5		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Ethylene Dibromide	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Chlorobenzene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,1,1,2-Tetrachloroethane	ND		3.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Ethylbenzene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
m-Xylene & p-Xylene	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
<b>o-Xylene</b>	<b>10</b>		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Styrene	ND		3.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Bromoform	ND		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Isopropylbenzene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Bromobenzene	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,1,2,2-Tetrachloroethane	ND	*	4.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
N-Propylbenzene	ND		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
2-Chlorotoluene	ND		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
4-Chlorotoluene	ND		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
tert-Butylbenzene	ND		3.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
4-Isopropyltoluene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,2-Dichlorobenzene	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Hexachlorobutadiene	ND		3.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
Naphthalene	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,2,3-Trichlorobenzene	ND		3.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg	☼	10/06/20 16:16	10/07/20 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	119		80 - 120	10/06/20 16:16	10/07/20 17:45	1
1,2-Dichloroethane-d4 (Surr)	93		80 - 121	10/06/20 16:16	10/07/20 17:45	1
4-Bromofluorobenzene (Surr)	95		80 - 120	10/06/20 16:16	10/07/20 17:45	1
Dibromofluoromethane (Surr)	99		80 - 120	10/06/20 16:16	10/07/20 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>sec-Butylbenzene</b>	<b>17</b>		3.2		ug/Kg	☼	10/06/20 16:16	10/14/20 19:57	1
n-Butylbenzene	ND		3.2		ug/Kg	☼	10/06/20 16:16	10/14/20 19:57	1

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

**Client Sample ID: AB-02B-16.5**

**Lab Sample ID: 580-98033-2**

Date Collected: 10/05/20 12:35

Matrix: Solid

Date Received: 10/06/20 11:55

Percent Solids: 77.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120	10/06/20 16:16	10/14/20 19:57	1
1,2-Dichloroethane-d4 (Surr)	98		80 - 121	10/06/20 16:16	10/14/20 19:57	1
4-Bromofluorobenzene (Surr)	92		80 - 120	10/06/20 16:16	10/14/20 19:57	1
Dibromofluoromethane (Surr)	97		80 - 120	10/06/20 16:16	10/14/20 19:57	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	93		63		mg/Kg	☼	10/13/20 10:35	10/14/20 18:06	1
Motor Oil (>C24-C36)	ND		63		mg/Kg	☼	10/13/20 10:35	10/14/20 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150	10/13/20 10:35	10/14/20 18:06	1

**Client Sample ID: AB-03B-16.5**

**Lab Sample ID: 580-98033-3**

Date Collected: 10/05/20 13:00

Matrix: Solid

Date Received: 10/06/20 11:55

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Chloromethane	ND		5.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Vinyl chloride	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Bromomethane	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Chloroethane	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Trichlorofluoromethane	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,1-Dichloroethene	ND		5.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Methylene Chloride	ND		42		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Methyl tert-butyl ether	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
trans-1,2-Dichloroethene	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,1-Dichloroethane	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
2,2-Dichloropropane	ND		5.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
<b>cis-1,2-Dichloroethene</b>	<b>4.1</b>		3.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Chlorobromomethane	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Chloroform	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,1,1-Trichloroethane	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Carbon tetrachloride	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,1-Dichloropropene	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Benzene	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,2-Dichloroethane	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Trichloroethene	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,2-Dichloropropane	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Dibromomethane	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Dichlorobromomethane	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Toluene	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
trans-1,3-Dichloropropene	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,1,2-Trichloroethane	ND	*	2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Tetrachloroethene	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,3-Dichloropropane	ND	*	2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Chlorodibromomethane	ND		1.6		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Ethylene Dibromide	ND		1.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

**Client Sample ID: AB-03B-16.5**

**Lab Sample ID: 580-98033-3**

**Date Collected: 10/05/20 13:00**

**Matrix: Solid**

**Date Received: 10/06/20 11:55**

**Percent Solids: 76.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,1,1,2-Tetrachloroethane	ND		3.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Ethylbenzene	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
m-Xylene & p-Xylene	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
o-Xylene	ND		5.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Styrene	ND		3.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Bromoform	ND		5.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Isopropylbenzene	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Bromobenzene	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,1,2,2-Tetrachloroethane	ND	*	4.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,2,3-Trichloropropane	ND		5.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
N-Propylbenzene	ND		5.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
2-Chlorotoluene	ND		5.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
4-Chlorotoluene	ND		5.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
tert-Butylbenzene	ND		3.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,3-Dichlorobenzene	ND		5.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,4-Dichlorobenzene	ND		5.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,2-Dichlorobenzene	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,2,4-Trichlorobenzene	ND		2.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Hexachlorobutadiene	ND		3.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
Naphthalene	ND		10		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,2,3-Trichlorobenzene	ND		3.1		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1
1,3,5-Trimethylbenzene	ND		5.2		ug/Kg	☼	10/06/20 16:16	10/07/20 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	125	X	80 - 120	10/06/20 16:16	10/07/20 18:11	1
1,2-Dichloroethane-d4 (Surr)	100		80 - 121	10/06/20 16:16	10/07/20 18:11	1
4-Bromofluorobenzene (Surr)	91		80 - 120	10/06/20 16:16	10/07/20 18:11	1
Dibromofluoromethane (Surr)	96		80 - 120	10/06/20 16:16	10/07/20 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,2,4-Trimethylbenzene</b>	<b>13</b>		5.0		ug/Kg	☼	10/06/20 16:16	10/14/20 20:23	1
<b>sec-Butylbenzene</b>	<b>21</b>		3.0		ug/Kg	☼	10/06/20 16:16	10/14/20 20:23	1
4-Isopropyltoluene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/14/20 20:23	1
n-Butylbenzene	ND		3.0		ug/Kg	☼	10/06/20 16:16	10/14/20 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	113		80 - 120	10/06/20 16:16	10/14/20 20:23	1
1,2-Dichloroethane-d4 (Surr)	96		80 - 121	10/06/20 16:16	10/14/20 20:23	1
4-Bromofluorobenzene (Surr)	84		80 - 120	10/06/20 16:16	10/14/20 20:23	1
Dibromofluoromethane (Surr)	95		80 - 120	10/06/20 16:16	10/14/20 20:23	1

**Method: NWTPh-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>#2 Diesel (C10-C24)</b>	<b>230</b>		64		mg/Kg	☼	10/13/20 10:35	10/14/20 18:46	1
Motor Oil (>C24-C36)	ND		64		mg/Kg	☼	10/13/20 10:35	10/14/20 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	10/13/20 10:35	10/14/20 18:46	1

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

**Client Sample ID: AB-04B-16.5**

**Lab Sample ID: 580-98033-4**

Date Collected: 10/05/20 13:40

Matrix: Solid

Date Received: 10/06/20 11:55

Percent Solids: 75.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Chloromethane	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Vinyl chloride	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Bromomethane	ND		0.98		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Chloroethane	ND		9.8		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Trichlorofluoromethane	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,1-Dichloroethene	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Methylene Chloride	ND		39		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Methyl tert-butyl ether	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,1-Dichloroethane	ND		0.98		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
2,2-Dichloropropane	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
<b>cis-1,2-Dichloroethene</b>	<b>5.5</b>		2.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Chlorobromomethane	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Chloroform	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Carbon tetrachloride	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,1-Dichloropropene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Benzene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,2-Dichloroethane	ND		0.98		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Trichloroethene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,2-Dichloropropane	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Dibromomethane	ND		0.98		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Dichlorobromomethane	ND		0.98		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
cis-1,3-Dichloropropene	ND		0.98		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Toluene	ND		9.8		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
trans-1,3-Dichloropropene	ND		9.8		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,1,2-Trichloroethane	ND	*	2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Tetrachloroethene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,3-Dichloropropane	ND	*	2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Chlorodibromomethane	ND		1.5		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Ethylene Dibromide	ND		0.98		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Chlorobenzene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,1,1,2-Tetrachloroethane	ND		2.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Ethylbenzene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
m-Xylene & p-Xylene	ND		9.8		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
o-Xylene	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Styrene	ND		2.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Bromoform	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Isopropylbenzene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Bromobenzene	ND		9.8		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,1,2,2-Tetrachloroethane	ND	*	3.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
N-Propylbenzene	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
2-Chlorotoluene	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
4-Chlorotoluene	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
tert-Butylbenzene	ND		2.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
sec-Butylbenzene	ND		2.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1

Eurofins TestAmerica, Seattle



# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

**Client Sample ID: AB-04B-16.5**

**Lab Sample ID: 580-98033-4**

Date Collected: 10/05/20 13:40

Matrix: Solid

Date Received: 10/06/20 11:55

Percent Solids: 75.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
n-Butylbenzene	ND		2.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,2-Dichlorobenzene	ND		9.8		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,2-Dibromo-3-Chloropropane	ND		9.8		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Hexachlorobutadiene	ND		2.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Naphthalene	ND		9.8		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,2,3-Trichlorobenzene	ND		2.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg	☼	10/06/20 16:16	10/07/20 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120				10/06/20 16:16	10/07/20 18:37	1
1,2-Dichloroethane-d4 (Surr)	95		80 - 121				10/06/20 16:16	10/07/20 18:37	1
4-Bromofluorobenzene (Surr)	103		80 - 120				10/06/20 16:16	10/07/20 18:37	1
Dibromofluoromethane (Surr)	97		80 - 120				10/06/20 16:16	10/07/20 18:37	1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		62		mg/Kg	☼	10/13/20 10:35	10/14/20 19:06	1
Motor Oil (>C24-C36)	ND		62		mg/Kg	☼	10/13/20 10:35	10/14/20 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150				10/13/20 10:35	10/14/20 19:06	1

**Client Sample ID: Trip-Blank-02**

**Lab Sample ID: 580-98033-5**

Date Collected: 10/05/20 12:00

Matrix: Solid

Date Received: 10/06/20 11:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Chloromethane	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Vinyl chloride	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Bromomethane	ND		1.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Chloroethane	ND		10		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Trichlorofluoromethane	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,1-Dichloroethene	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Methylene Chloride	ND		40		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Methyl tert-butyl ether	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,1-Dichloroethane	ND		1.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
2,2-Dichloropropane	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
cis-1,2-Dichloroethene	ND		3.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Chlorobromomethane	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Chloroform	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Carbon tetrachloride	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,1-Dichloropropene	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Benzene	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1

Eurofins TestAmerica, Seattle

# Client Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

**Client Sample ID: Trip-Blank-02**

**Lab Sample ID: 580-98033-5**

**Date Collected: 10/05/20 12:00**

**Matrix: Solid**

**Date Received: 10/06/20 11:55**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Trichloroethene	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,2-Dichloropropane	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Dibromomethane	ND		1.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Dichlorobromomethane	ND		1.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Toluene	ND		10		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
trans-1,3-Dichloropropene	ND		10		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,1,2-Trichloroethane	ND	*	2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Tetrachloroethene	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,3-Dichloropropane	ND	*	2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Chlorodibromomethane	ND		1.5		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Ethylene Dibromide	ND		1.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Chlorobenzene	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,1,1,2-Tetrachloroethane	ND		3.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Ethylbenzene	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
m-Xylene & p-Xylene	ND		10		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
o-Xylene	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Styrene	ND		3.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Bromoform	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Isopropylbenzene	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Bromobenzene	ND		10		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,1,2,2-Tetrachloroethane	ND	*	4.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
N-Propylbenzene	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
2-Chlorotoluene	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
4-Chlorotoluene	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
tert-Butylbenzene	ND		3.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
sec-Butylbenzene	ND		3.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
4-Isopropyltoluene	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
n-Butylbenzene	ND		3.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,2-Dichlorobenzene	ND		10		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Hexachlorobutadiene	ND		3.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Naphthalene	ND		10		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,2,3-Trichlorobenzene	ND		3.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		10/06/20 16:16	10/07/20 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	61	X	80 - 120				10/06/20 16:16	10/07/20 16:29	1
1,2-Dichloroethane-d4 (Surr)	131	X	80 - 121				10/06/20 16:16	10/07/20 16:29	1
4-Bromofluorobenzene (Surr)	78	X	80 - 120				10/06/20 16:16	10/07/20 16:29	1
Dibromofluoromethane (Surr)	118		80 - 120				10/06/20 16:16	10/07/20 16:29	1



# Default Detection Limits

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

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

Prep: 5035

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	3.0	0.59	ug/Kg
1,1,1-Trichloroethane	2.0	0.30	ug/Kg
1,1,2,2-Tetrachloroethane	4.0	0.90	ug/Kg
1,1,2-Trichloroethane	2.0	0.25	ug/Kg
1,1-Dichloroethane	1.0	0.19	ug/Kg
1,1-Dichloroethene	5.0	1.1	ug/Kg
1,1-Dichloropropene	2.0	0.30	ug/Kg
1,2,3-Trichlorobenzene	3.0	0.60	ug/Kg
1,2,3-Trichloropropane	5.0	1.0	ug/Kg
1,2,4-Trichlorobenzene	2.0	0.42	ug/Kg
1,2,4-Trimethylbenzene	5.0	1.2	ug/Kg
1,2-Dibromo-3-Chloropropane	10	1.6	ug/Kg
1,2-Dichlorobenzene	10	1.3	ug/Kg
1,2-Dichloroethane	1.0	0.20	ug/Kg
1,2-Dichloropropane	2.0	0.40	ug/Kg
1,3,5-Trimethylbenzene	5.0	0.81	ug/Kg
1,3-Dichlorobenzene	5.0	1.1	ug/Kg
1,3-Dichloropropane	2.0	0.23	ug/Kg
1,4-Dichlorobenzene	5.0	0.98	ug/Kg
2,2-Dichloropropane	5.0	0.33	ug/Kg
2-Chlorotoluene	5.0	0.93	ug/Kg
4-Chlorotoluene	5.0	1.0	ug/Kg
4-Isopropyltoluene	2.0	0.40	ug/Kg
Benzene	2.0	0.39	ug/Kg
Bromobenzene	10	1.0	ug/Kg
Bromoform	5.0	0.84	ug/Kg
Bromomethane	1.0	0.21	ug/Kg
Carbon tetrachloride	2.0	0.30	ug/Kg
Chlorobenzene	2.0	0.25	ug/Kg
Chlorobromomethane	2.0	0.25	ug/Kg
Chlorodibromomethane	1.5	0.27	ug/Kg
Chloroethane	10	0.75	ug/Kg
Chloroform	2.0	0.30	ug/Kg
Chloromethane	5.0	0.93	ug/Kg
cis-1,2-Dichloroethene	3.0	0.60	ug/Kg
cis-1,3-Dichloropropene	1.0	0.20	ug/Kg
Dibromomethane	1.0	0.17	ug/Kg
Dichlorobromomethane	1.0	0.18	ug/Kg
Dichlorodifluoromethane	2.0	0.49	ug/Kg
Ethylbenzene	2.0	0.41	ug/Kg
Ethylene Dibromide	1.0	0.20	ug/Kg
Hexachlorobutadiene	3.0	0.60	ug/Kg
Isopropylbenzene	2.0	0.46	ug/Kg
Methyl tert-butyl ether	2.0	0.30	ug/Kg
Methylene Chloride	40	9.9	ug/Kg
m-Xylene & p-Xylene	10	0.56	ug/Kg
Naphthalene	10	1.8	ug/Kg
n-Butylbenzene	3.0	0.63	ug/Kg
N-Propylbenzene	5.0	0.76	ug/Kg
o-Xylene	5.0	0.92	ug/Kg
sec-Butylbenzene	3.0	0.67	ug/Kg
Styrene	3.0	0.74	ug/Kg

# Default Detection Limits

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

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

Prep: 5035

Analyte	RL	MDL	Units
tert-Butylbenzene	3.0	0.66	ug/Kg
Tetrachloroethene	2.0	0.40	ug/Kg
Toluene	10	1.3	ug/Kg
trans-1,2-Dichloroethene	2.0	0.40	ug/Kg
trans-1,3-Dichloropropene	10	0.60	ug/Kg
Trichloroethene	2.0	0.30	ug/Kg
Trichlorofluoromethane	2.0	0.30	ug/Kg
Vinyl chloride	2.0	0.30	ug/Kg

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Prep: 3546

Analyte	RL	MDL	Units
#2 Diesel (C10-C24)	50	12	mg/Kg
Motor Oil (>C24-C36)	50	18	mg/Kg

# Surrogate Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (80-121)	BFB (80-120)	DBFM (80-120)
580-98033-1	AB-01B-15.5	97	95	95	95
580-98033-2	AB-02B-16.5	119	93	95	99
580-98033-2 - RA	AB-02B-16.5	108	98	92	97
580-98033-3	AB-03B-16.5	125 X	100	91	96
580-98033-3 - RA	AB-03B-16.5	113	96	84	95
580-98033-4	AB-04B-16.5	101	95	103	97
580-98033-5	Trip-Blank-02	61 X	131 X	78 X	118
LCS 580-340245/2-A	Lab Control Sample	96	95	96	97
LCS 580-340822/2-A	Lab Control Sample	102	91	100	94
LCSD 580-340245/3-A	Lab Control Sample Dup	103	95	100	97
LCSD 580-340822/3-A	Lab Control Sample Dup	99	88	97	96
MB 580-340245/1-A	Method Blank	102	94	97	94
MB 580-340822/1-A	Method Blank	102	89	98	93

### Surrogate Legend

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

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTPH (50-150)
580-98033-1	AB-01B-15.5	80
580-98033-2	AB-02B-16.5	79
580-98033-3	AB-03B-16.5	80
580-98033-4	AB-04B-16.5	78
LCS 580-340672/2-A	Lab Control Sample	81
LCSD 580-340672/3-A	Lab Control Sample Dup	82
MB 580-340672/1-A	Method Blank	72

### Surrogate Legend

OTPH = o-Terphenyl

# QC Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

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

Lab Sample ID: MB 580-340245/1-A

Matrix: Solid

Analysis Batch: 340383

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 340245

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Chloromethane	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Vinyl chloride	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Bromomethane	ND		1.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Chloroethane	ND		10		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Trichlorofluoromethane	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,1-Dichloroethene	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Methylene Chloride	ND		40		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Methyl tert-butyl ether	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,1-Dichloroethane	ND		1.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
2,2-Dichloropropane	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
cis-1,2-Dichloroethene	ND		3.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Chlorobromomethane	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Chloroform	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Carbon tetrachloride	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,1-Dichloropropene	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Benzene	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,2-Dichloroethane	ND		1.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Trichloroethene	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,2-Dichloropropane	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Dibromomethane	ND		1.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Dichlorobromomethane	ND		1.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Toluene	ND		10		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
trans-1,3-Dichloropropene	ND		10		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Tetrachloroethene	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,3-Dichloropropane	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Chlorodibromomethane	ND		1.5		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Ethylene Dibromide	ND		1.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Chlorobenzene	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,1,1,2-Tetrachloroethane	ND		3.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Ethylbenzene	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
m-Xylene & p-Xylene	ND		10		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
o-Xylene	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Styrene	ND		3.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Bromoform	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Isopropylbenzene	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Bromobenzene	ND		10		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,1,2,2-Tetrachloroethane	ND		4.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
N-Propylbenzene	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
2-Chlorotoluene	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
4-Chlorotoluene	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
tert-Butylbenzene	ND		3.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1

# QC Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

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

**Lab Sample ID: MB 580-340245/1-A**  
**Matrix: Solid**  
**Analysis Batch: 340383**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 340245**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		3.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
4-Isopropyltoluene	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
n-Butylbenzene	ND		3.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,2-Dichlorobenzene	ND		10		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Hexachlorobutadiene	ND		3.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
Naphthalene	ND		10		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,2,3-Trichlorobenzene	ND		3.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		10/07/20 13:18	10/07/20 16:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120	10/07/20 13:18	10/07/20 16:03	1
1,2-Dichloroethane-d4 (Surr)	94		80 - 121	10/07/20 13:18	10/07/20 16:03	1
4-Bromofluorobenzene (Surr)	97		80 - 120	10/07/20 13:18	10/07/20 16:03	1
Dibromofluoromethane (Surr)	94		80 - 120	10/07/20 13:18	10/07/20 16:03	1

**Lab Sample ID: LCS 580-340245/2-A**  
**Matrix: Solid**  
**Analysis Batch: 340383**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 340245**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	20.0	11.8		ug/Kg		59	24 - 150
Chloromethane	20.0	13.8		ug/Kg		69	52 - 150
Vinyl chloride	20.0	15.1		ug/Kg		75	54 - 150
Bromomethane	20.0	17.3		ug/Kg		86	42 - 150
Chloroethane	20.0	21.4		ug/Kg		107	50 - 150
Trichlorofluoromethane	20.0	17.1		ug/Kg		85	71 - 150
1,1-Dichloroethene	20.0	18.2		ug/Kg		91	73 - 143
Methylene Chloride	20.0	20.5	J	ug/Kg		102	66 - 140
Methyl tert-butyl ether	20.0	20.9		ug/Kg		105	77 - 132
trans-1,2-Dichloroethene	20.0	17.1		ug/Kg		85	77 - 134
1,1-Dichloroethane	20.0	18.4		ug/Kg		92	78 - 135
2,2-Dichloropropane	20.0	18.7		ug/Kg		93	62 - 150
cis-1,2-Dichloroethene	20.0	20.7		ug/Kg		104	68 - 132
Chlorobromomethane	20.0	20.4		ug/Kg		102	76 - 131
Chloroform	20.0	18.9		ug/Kg		95	74 - 133
1,1,1-Trichloroethane	20.0	18.5		ug/Kg		93	78 - 144
Carbon tetrachloride	20.0	18.7		ug/Kg		94	66 - 150
1,1-Dichloropropene	20.0	18.4		ug/Kg		92	76 - 140
Benzene	20.0	20.1		ug/Kg		101	79 - 135
1,2-Dichloroethane	20.0	19.1		ug/Kg		95	76 - 132
Trichloroethene	20.0	18.9		ug/Kg		95	80 - 134
1,2-Dichloropropane	20.0	20.5		ug/Kg		103	65 - 136
Dibromomethane	20.0	22.1		ug/Kg		110	72 - 130
Dichlorobromomethane	20.0	19.6		ug/Kg		98	73 - 125

# QC Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

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

**Lab Sample ID: LCS 580-340245/2-A**

**Matrix: Solid**

**Analysis Batch: 340383**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 340245**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	20.0	20.1		ug/Kg		101	80 - 122
Toluene	20.0	19.4		ug/Kg		97	75 - 137
trans-1,3-Dichloropropene	20.0	19.9		ug/Kg		100	80 - 121
1,1,2-Trichloroethane	20.0	21.4		ug/Kg		107	80 - 123
Tetrachloroethene	20.0	19.4		ug/Kg		97	58 - 150
1,3-Dichloropropane	20.0	21.1		ug/Kg		105	75 - 120
Chlorodibromomethane	20.0	19.7		ug/Kg		99	75 - 132
Ethylene Dibromide	20.0	21.6		ug/Kg		108	77 - 123
Chlorobenzene	20.0	20.3		ug/Kg		101	80 - 131
1,1,1,2-Tetrachloroethane	20.0	18.8		ug/Kg		94	79 - 128
Ethylbenzene	20.0	20.5		ug/Kg		103	80 - 135
m-Xylene & p-Xylene	20.0	17.8		ug/Kg		89	80 - 132
o-Xylene	20.0	20.0		ug/Kg		100	80 - 132
Styrene	20.0	20.2		ug/Kg		101	79 - 129
Bromoform	20.0	18.6		ug/Kg		93	71 - 146
Isopropylbenzene	20.0	18.9		ug/Kg		95	81 - 140
Bromobenzene	20.0	20.3		ug/Kg		101	78 - 126
1,1,2,2-Tetrachloroethane	20.0	23.4		ug/Kg		117	77 - 127
1,2,3-Trichloropropane	20.0	20.2		ug/Kg		101	77 - 127
N-Propylbenzene	20.0	19.7		ug/Kg		99	68 - 149
2-Chlorotoluene	20.0	20.1		ug/Kg		100	77 - 134
4-Chlorotoluene	20.0	19.4		ug/Kg		97	71 - 137
tert-Butylbenzene	20.0	18.0		ug/Kg		90	72 - 144
1,2,4-Trimethylbenzene	20.0	19.2		ug/Kg		96	73 - 138
sec-Butylbenzene	20.0	18.8		ug/Kg		94	71 - 143
4-Isopropyltoluene	20.0	18.7		ug/Kg		94	71 - 142
1,3-Dichlorobenzene	20.0	20.1		ug/Kg		100	78 - 132
1,4-Dichlorobenzene	20.0	20.0		ug/Kg		100	77 - 123
n-Butylbenzene	20.0	18.1		ug/Kg		90	69 - 143
1,2-Dichlorobenzene	20.0	20.5		ug/Kg		103	78 - 126
1,2-Dibromo-3-Chloropropane	20.0	20.7		ug/Kg		103	75 - 129
1,2,4-Trichlorobenzene	20.0	18.9		ug/Kg		95	74 - 131
Hexachlorobutadiene	20.0	15.4		ug/Kg		77	65 - 150
Naphthalene	20.0	20.5		ug/Kg		102	64 - 136
1,2,3-Trichlorobenzene	20.0	18.9		ug/Kg		94	68 - 136
1,3,5-Trimethylbenzene	20.0	19.2		ug/Kg		96	72 - 142

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		80 - 120
1,2-Dichloroethane-d4 (Surr)	95		80 - 121
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120

# QC Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

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

**Lab Sample ID: LCSD 580-340245/3-A**

**Matrix: Solid**

**Analysis Batch: 340383**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 340245**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	RPD Limit
							Limits	RPD		
Dichlorodifluoromethane	20.0	13.0		ug/Kg		65	24 - 150	10	40	
Chloromethane	20.0	14.8		ug/Kg		74	52 - 150	7	26	
Vinyl chloride	20.0	16.7		ug/Kg		83	54 - 150	10	40	
Bromomethane	20.0	19.8		ug/Kg		99	42 - 150	14	40	
Chloroethane	20.0	19.8		ug/Kg		99	50 - 150	8	31	
Trichlorofluoromethane	20.0	17.5		ug/Kg		87	71 - 150	2	36	
1,1-Dichloroethene	20.0	19.8		ug/Kg		99	73 - 143	9	34	
Methylene Chloride	20.0	23.2	J	ug/Kg		116	66 - 140	13	30	
Methyl tert-butyl ether	20.0	23.6		ug/Kg		118	77 - 132	12	25	
trans-1,2-Dichloroethene	20.0	20.5		ug/Kg		102	77 - 134	18	33	
1,1-Dichloroethane	20.0	21.7		ug/Kg		108	78 - 135	16	31	
2,2-Dichloropropane	20.0	21.8		ug/Kg		109	62 - 150	15	40	
cis-1,2-Dichloroethene	20.0	23.8		ug/Kg		119	68 - 132	14	32	
Chlorobromomethane	20.0	24.2		ug/Kg		121	76 - 131	17	28	
Chloroform	20.0	22.5		ug/Kg		112	74 - 133	17	36	
1,1,1-Trichloroethane	20.0	21.9		ug/Kg		109	78 - 144	17	38	
Carbon tetrachloride	20.0	22.2		ug/Kg		111	66 - 150	17	39	
1,1-Dichloropropene	20.0	21.5		ug/Kg		108	76 - 140	16	38	
Benzene	20.0	23.5		ug/Kg		117	79 - 135	15	31	
1,2-Dichloroethane	20.0	21.9		ug/Kg		110	76 - 132	14	29	
Trichloroethene	20.0	22.8		ug/Kg		114	80 - 134	19	40	
1,2-Dichloropropane	20.0	23.3		ug/Kg		116	65 - 136	13	37	
Dibromomethane	20.0	25.8		ug/Kg		129	72 - 130	16	34	
Dichlorobromomethane	20.0	22.4		ug/Kg		112	73 - 125	13	40	
cis-1,3-Dichloropropene	20.0	23.6		ug/Kg		118	80 - 122	16	40	
Toluene	20.0	23.2		ug/Kg		116	75 - 137	18	34	
trans-1,3-Dichloropropene	20.0	22.9		ug/Kg		115	80 - 121	14	40	
1,1,2-Trichloroethane	20.0	24.9	*	ug/Kg		124	80 - 123	15	39	
Tetrachloroethene	20.0	23.0		ug/Kg		115	58 - 150	17	40	
1,3-Dichloropropane	20.0	24.7	*	ug/Kg		124	75 - 120	16	37	
Chlorodibromomethane	20.0	22.2		ug/Kg		111	75 - 132	12	40	
Ethylene Dibromide	20.0	24.5		ug/Kg		123	77 - 123	13	37	
Chlorobenzene	20.0	24.2		ug/Kg		121	80 - 131	17	40	
1,1,1,2-Tetrachloroethane	20.0	21.2		ug/Kg		106	79 - 128	12	40	
Ethylbenzene	20.0	25.0		ug/Kg		125	80 - 135	20	37	
m-Xylene & p-Xylene	20.0	21.1		ug/Kg		105	80 - 132	17	38	
o-Xylene	20.0	23.7		ug/Kg		119	80 - 132	17	39	
Styrene	20.0	23.2		ug/Kg		116	79 - 129	14	40	
Bromoform	20.0	20.1		ug/Kg		100	71 - 146	7	40	
Isopropylbenzene	20.0	23.0		ug/Kg		115	81 - 140	19	40	
Bromobenzene	20.0	23.2		ug/Kg		116	78 - 126	14	40	
1,1,2,2-Tetrachloroethane	20.0	26.3	*	ug/Kg		131	77 - 127	12	40	
1,2,3-Trichloropropane	20.0	24.5		ug/Kg		123	77 - 127	19	40	
N-Propylbenzene	20.0	23.7		ug/Kg		118	68 - 149	18	40	
2-Chlorotoluene	20.0	23.5		ug/Kg		118	77 - 134	16	40	
4-Chlorotoluene	20.0	22.1		ug/Kg		111	71 - 137	13	40	
tert-Butylbenzene	20.0	23.5		ug/Kg		117	72 - 144	26	40	
1,2,4-Trimethylbenzene	20.0	23.0		ug/Kg		115	73 - 138	18	40	

# QC Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

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

**Lab Sample ID: LCSD 580-340245/3-A**  
**Matrix: Solid**  
**Analysis Batch: 340383**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 340245**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit	RPD	Limit
sec-Butylbenzene	20.0	23.9		ug/Kg		119	71 - 143	24	40	
4-Isopropyltoluene	20.0	23.9		ug/Kg		119	71 - 142	24	40	
1,3-Dichlorobenzene	20.0	23.9		ug/Kg		120	78 - 132	17	40	
1,4-Dichlorobenzene	20.0	23.8		ug/Kg		119	77 - 123	17	40	
n-Butylbenzene	20.0	23.1		ug/Kg		115	69 - 143	24	40	
1,2-Dichlorobenzene	20.0	23.8		ug/Kg		119	78 - 126	15	40	
1,2-Dibromo-3-Chloropropane	20.0	23.1		ug/Kg		116	75 - 129	11	40	
1,2,4-Trichlorobenzene	20.0	23.3		ug/Kg		117	74 - 131	21	40	
Hexachlorobutadiene	20.0	21.2		ug/Kg		106	65 - 150	32	36	
Naphthalene	20.0	23.5		ug/Kg		117	64 - 136	14	40	
1,2,3-Trichlorobenzene	20.0	22.6		ug/Kg		113	68 - 136	18	40	
1,3,5-Trimethylbenzene	20.0	23.3		ug/Kg		116	72 - 142	19	40	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	95		80 - 121
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120

**Lab Sample ID: MB 580-340822/1-A**  
**Matrix: Solid**  
**Analysis Batch: 340807**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 340822**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		10/14/20 15:38	10/14/20 17:48	1
sec-Butylbenzene	ND		3.0		ug/Kg		10/14/20 15:38	10/14/20 17:48	1
4-Isopropyltoluene	ND		2.0		ug/Kg		10/14/20 15:38	10/14/20 17:48	1
n-Butylbenzene	ND		3.0		ug/Kg		10/14/20 15:38	10/14/20 17:48	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	102		80 - 120	10/14/20 15:38	10/14/20 17:48	1
1,2-Dichloroethane-d4 (Surr)	89		80 - 121	10/14/20 15:38	10/14/20 17:48	1
4-Bromofluorobenzene (Surr)	98		80 - 120	10/14/20 15:38	10/14/20 17:48	1
Dibromofluoromethane (Surr)	93		80 - 120	10/14/20 15:38	10/14/20 17:48	1

**Lab Sample ID: LCS 580-340822/2-A**  
**Matrix: Solid**  
**Analysis Batch: 340807**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 340822**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							RPD	Limit
1,2,4-Trimethylbenzene	20.0	19.9		ug/Kg		99	73 - 138	
sec-Butylbenzene	20.0	20.6		ug/Kg		103	71 - 143	
4-Isopropyltoluene	20.0	20.3		ug/Kg		102	71 - 142	
n-Butylbenzene	20.0	20.1		ug/Kg		100	69 - 143	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	91		80 - 121



# QC Sample Results

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

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

**Lab Sample ID: LCS 580-340822/2-A**  
**Matrix: Solid**  
**Analysis Batch: 340807**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 340822**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	94		80 - 120

**Lab Sample ID: LCSD 580-340822/3-A**  
**Matrix: Solid**  
**Analysis Batch: 340807**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 340822**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,2,4-Trimethylbenzene	20.0	17.8		ug/Kg		89	73 - 138	11	40	
sec-Butylbenzene	20.0	18.4		ug/Kg		92	71 - 143	12	40	
4-Isopropyltoluene	20.0	18.4		ug/Kg		92	71 - 142	10	40	
n-Butylbenzene	20.0	18.0		ug/Kg		90	69 - 143	11	40	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	88		80 - 121
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 580-340672/1-A**  
**Matrix: Solid**  
**Analysis Batch: 340757**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 340672**

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier					Time	Time	Time	Time	
#2 Diesel (C10-C24)	ND		50		mg/Kg		10/13/20 10:35	10/14/20 08:45	10/14/20 08:45	1	
Motor Oil (>C24-C36)	ND		50		mg/Kg		10/13/20 10:35	10/14/20 08:45	10/14/20 08:45	1	

Surrogate	MB MB		Limits	Prepared		Analyzed		Dil Fac
	%Recovery	Qualifier		Time	Time	Time	Time	
o-Terphenyl	72		50 - 150	10/13/20 10:35	10/14/20 08:45	10/14/20 08:45	1	

**Lab Sample ID: LCS 580-340672/2-A**  
**Matrix: Solid**  
**Analysis Batch: 340757**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 340672**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.		Limit
							Limits	RPD	
#2 Diesel (C10-C24)	500	414		mg/Kg		83	70 - 125		
Motor Oil (>C24-C36)	500	419		mg/Kg		84	70 - 129		

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
o-Terphenyl	81		50 - 150

# QC Sample Results

Client: Aspect Consulting  
 Project/Site: New City Cleaners

Job ID: 580-98033-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 580-340672/3-A**

**Matrix: Solid**

**Analysis Batch: 340757**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 340672**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)	500	407		mg/Kg		81	70 - 125	2	16
Motor Oil (>C24-C36)	500	407		mg/Kg		81	70 - 129	3	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	82		50 - 150

# QC Association Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

## GC/MS VOA

### Prep Batch: 340245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-98033-1	AB-01B-15.5	Total/NA	Solid	5035	
580-98033-2	AB-02B-16.5	Total/NA	Solid	5035	
580-98033-3	AB-03B-16.5	Total/NA	Solid	5035	
580-98033-4	AB-04B-16.5	Total/NA	Solid	5035	
580-98033-5	Trip-Blank-02	Total/NA	Solid	5035	
MB 580-340245/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-340245/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-340245/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

### Analysis Batch: 340383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-98033-1	AB-01B-15.5	Total/NA	Solid	8260D	340245
580-98033-2	AB-02B-16.5	Total/NA	Solid	8260D	340245
580-98033-3	AB-03B-16.5	Total/NA	Solid	8260D	340245
580-98033-4	AB-04B-16.5	Total/NA	Solid	8260D	340245
580-98033-5	Trip-Blank-02	Total/NA	Solid	8260D	340245
MB 580-340245/1-A	Method Blank	Total/NA	Solid	8260D	340245
LCS 580-340245/2-A	Lab Control Sample	Total/NA	Solid	8260D	340245
LCSD 580-340245/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	340245

### Analysis Batch: 340807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-98033-2 - RA	AB-02B-16.5	Total/NA	Solid	8260D	340822
580-98033-3 - RA	AB-03B-16.5	Total/NA	Solid	8260D	340822
MB 580-340822/1-A	Method Blank	Total/NA	Solid	8260D	340822
LCS 580-340822/2-A	Lab Control Sample	Total/NA	Solid	8260D	340822
LCSD 580-340822/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	340822

### Prep Batch: 340822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-98033-2 - RA	AB-02B-16.5	Total/NA	Solid	5035	
580-98033-3 - RA	AB-03B-16.5	Total/NA	Solid	5035	
MB 580-340822/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-340822/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-340822/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## GC Semi VOA

### Prep Batch: 340672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-98033-1	AB-01B-15.5	Total/NA	Solid	3546	
580-98033-2	AB-02B-16.5	Total/NA	Solid	3546	
580-98033-3	AB-03B-16.5	Total/NA	Solid	3546	
580-98033-4	AB-04B-16.5	Total/NA	Solid	3546	
MB 580-340672/1-A	Method Blank	Total/NA	Solid	3546	
LCS 580-340672/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 580-340672/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

### Analysis Batch: 340757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-98033-1	AB-01B-15.5	Total/NA	Solid	NWTPH-Dx	340672

# QC Association Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

## GC Semi VOA (Continued)

### Analysis Batch: 340757 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-98033-2	AB-02B-16.5	Total/NA	Solid	NWTPH-Dx	340672
580-98033-3	AB-03B-16.5	Total/NA	Solid	NWTPH-Dx	340672
580-98033-4	AB-04B-16.5	Total/NA	Solid	NWTPH-Dx	340672
MB 580-340672/1-A	Method Blank	Total/NA	Solid	NWTPH-Dx	340672
LCS 580-340672/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Dx	340672
LCSD 580-340672/3-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Dx	340672

## General Chemistry

### Analysis Batch: 340427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-98033-1	AB-01B-15.5	Total/NA	Solid	2540G	
580-98033-2	AB-02B-16.5	Total/NA	Solid	2540G	
580-98033-3	AB-03B-16.5	Total/NA	Solid	2540G	
580-98033-4	AB-04B-16.5	Total/NA	Solid	2540G	

# Lab Chronicle

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

**Client Sample ID: AB-01B-15.5**

**Lab Sample ID: 580-98033-1**

Date Collected: 10/05/20 12:05

Matrix: Solid

Date Received: 10/06/20 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	340427	10/08/20 19:59	CCH	TAL SEA

**Client Sample ID: AB-01B-15.5**

**Lab Sample ID: 580-98033-1**

Date Collected: 10/05/20 12:05

Matrix: Solid

Date Received: 10/06/20 11:55

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			340245	10/06/20 16:16	JSM	TAL SEA
Total/NA	Analysis	8260D		1	340383	10/07/20 17:20	CJB	TAL SEA
Total/NA	Prep	3546			340672	10/13/20 10:35	CCH	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	340757	10/14/20 17:06	NDB	TAL SEA

**Client Sample ID: AB-02B-16.5**

**Lab Sample ID: 580-98033-2**

Date Collected: 10/05/20 12:35

Matrix: Solid

Date Received: 10/06/20 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	340427	10/08/20 19:59	CCH	TAL SEA

**Client Sample ID: AB-02B-16.5**

**Lab Sample ID: 580-98033-2**

Date Collected: 10/05/20 12:35

Matrix: Solid

Date Received: 10/06/20 11:55

Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			340245	10/06/20 16:16	JSM	TAL SEA
Total/NA	Analysis	8260D		1	340383	10/07/20 17:45	CJB	TAL SEA
Total/NA	Prep	5035	RA		340822	10/06/20 16:16	CJB	TAL SEA
Total/NA	Analysis	8260D	RA	1	340807	10/14/20 19:57	TL1	TAL SEA
Total/NA	Prep	3546			340672	10/13/20 10:35	CCH	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	340757	10/14/20 18:06	NDB	TAL SEA

**Client Sample ID: AB-03B-16.5**

**Lab Sample ID: 580-98033-3**

Date Collected: 10/05/20 13:00

Matrix: Solid

Date Received: 10/06/20 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	340427	10/08/20 19:59	CCH	TAL SEA

**Client Sample ID: AB-03B-16.5**

**Lab Sample ID: 580-98033-3**

Date Collected: 10/05/20 13:00

Matrix: Solid

Date Received: 10/06/20 11:55

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			340245	10/06/20 16:16	JSM	TAL SEA
Total/NA	Analysis	8260D		1	340383	10/07/20 18:11	CJB	TAL SEA

# Lab Chronicle

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

**Client Sample ID: AB-03B-16.5**

**Lab Sample ID: 580-98033-3**

Date Collected: 10/05/20 13:00

Matrix: Solid

Date Received: 10/06/20 11:55

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		340822	10/06/20 16:16	CJB	TAL SEA
Total/NA	Analysis	8260D	RA	1	340807	10/14/20 20:23	TL1	TAL SEA
Total/NA	Prep	3546			340672	10/13/20 10:35	CCH	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	340757	10/14/20 18:46	NDB	TAL SEA

**Client Sample ID: AB-04B-16.5**

**Lab Sample ID: 580-98033-4**

Date Collected: 10/05/20 13:40

Matrix: Solid

Date Received: 10/06/20 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	340427	10/08/20 19:59	CCH	TAL SEA

**Client Sample ID: AB-04B-16.5**

**Lab Sample ID: 580-98033-4**

Date Collected: 10/05/20 13:40

Matrix: Solid

Date Received: 10/06/20 11:55

Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			340245	10/06/20 16:16	JSM	TAL SEA
Total/NA	Analysis	8260D		1	340383	10/07/20 18:37	CJB	TAL SEA
Total/NA	Prep	3546			340672	10/13/20 10:35	CCH	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	340757	10/14/20 19:06	NDB	TAL SEA

**Client Sample ID: Trip-Blank-02**

**Lab Sample ID: 580-98033-5**

Date Collected: 10/05/20 12:00

Matrix: Solid

Date Received: 10/06/20 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			340245	10/06/20 16:16	JSM	TAL SEA
Total/NA	Analysis	8260D		1	340383	10/07/20 16:29	CJB	TAL SEA

**Laboratory References:**

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Accreditation/Certification Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

## Laboratory: Eurofins TestAmerica, Seattle

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Washington	State	C553	02-18-21

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.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

# Method Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SEA
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SEA
2540G	SM 2540G	SM22	TAL SEA
3546	Microwave Extraction	SW846	TAL SEA
5035	Closed System Purge and Trap	SW846	TAL SEA

**Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

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

**Laboratory References:**

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



# Sample Summary

Client: Aspect Consulting  
Project/Site: New City Cleaners

Job ID: 580-98033-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-98033-1	AB-01B-15.5	Solid	10/05/20 12:05	10/06/20 11:55	
580-98033-2	AB-02B-16.5	Solid	10/05/20 12:35	10/06/20 11:55	
580-98033-3	AB-03B-16.5	Solid	10/05/20 13:00	10/06/20 11:55	
580-98033-4	AB-04B-16.5	Solid	10/05/20 13:40	10/06/20 11:55	
580-98033-5	Trip-Blank-02	Solid	10/05/20 12:00	10/06/20 11:55	

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 339812Lab Sample ID: IC 580-339812/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/01/20 16:55 Lab File ID: 10012020\_002z.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.92	Assign Peak	bohnc	10/02/20 08:59
Vinyl chloride	2.06	Assign Peak	bohnc	10/02/20 08:59
Ethyl ether	3.33	Assign Peak	bohnc	10/02/20 09:00
Carbon disulfide	3.98	Assign Peak	bohnc	10/02/20 09:01
Hexane	5.62	Assign Peak	bohnc	10/02/20 09:02
1,1-Dichloroethane	5.90	Assign Peak	bohnc	10/02/20 09:02
2-Chloro-1,3-butadiene	6.04	Assign Peak	bohnc	10/02/20 09:02
Tert-butyl ethyl ether	6.70	Assign Peak	bohnc	10/02/20 09:02
Methacrylonitrile	7.26	Assign Peak	bohnc	10/02/20 09:02
Chlorobromomethane	7.28	Assign Peak	bohnc	10/02/20 09:02
Chloroform	7.50	Assign Peak	bohnc	10/02/20 09:03
1,1,1-Trichloroethane	7.70	Assign Peak	bohnc	10/02/20 09:03
Cyclohexane	7.79	Assign Peak	bohnc	10/02/20 09:03
Tetrahydrofuran	8.63	Assign Peak	bohnc	10/02/20 10:06
Trichloroethene	9.03	Assign Peak	bohnc	10/02/20 09:03
Dichlorobromomethane	9.57	Assign Peak	bohnc	10/02/20 09:03
2-Chloroethyl vinyl ether	9.88	Assign Peak	bohnc	10/02/20 09:04
1,1-Dichloroethene		Invalid Compound ID	bohnc	10/02/20 09:00
1,2-Dibromo-3-Chloropropane		Invalid Compound ID	bohnc	10/02/20 09:05
2-Butanone (MEK)		Invalid Compound ID	bohnc	10/02/20 09:02
3-Chloro-1-propene		Invalid Compound ID	bohnc	10/02/20 09:00
Acrolein		Invalid Compound ID	bohnc	10/02/20 09:00
Bromomethane		Invalid Compound ID	bohnc	10/02/20 08:59
Chloroethane		Invalid Compound ID	bohnc	10/02/20 08:59
Dichlorodifluoromethane		Invalid Compound ID	bohnc	10/02/20 08:59
Dichlorofluoromethane		Invalid Compound ID	bohnc	10/02/20 08:59
Ethyl methacrylate		Invalid Compound ID	bohnc	10/02/20 09:04
Methyl acetate		Invalid Compound ID	bohnc	10/02/20 09:01
n-Butyl acetate		Invalid Compound ID	bohnc	10/02/20 09:04
Trichlorofluoromethane		Invalid Compound ID	bohnc	10/02/20 08:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 339812

Lab Sample ID: IC 580-339812/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/01/20 16:55 Lab File ID: 10012020\_002z.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorodibromomethane	11.08	Assign Peak	bohnc	10/02/20 09:04
Chlorobenzene	11.60	Assign Peak	bohnc	10/02/20 09:04
sec-Butylbenzene	13.33	Assign Peak	bohnc	10/02/20 09:04
1,4-Dichlorobenzene	13.51	Assign Peak	bohnc	10/02/20 09:05

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 339812Lab Sample ID: IC 580-339812/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/01/20 17:21 Lab File ID: 10012020\_003.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.93	Baseline	jantanuc	10/02/20 14:13
Vinyl chloride	2.06	Baseline	jantanuc	10/02/20 14:13
Butadiene	2.10	Baseline	jantanuc	10/02/20 14:13
Bromomethane	2.47	Invalid Compound ID	bohnc	10/02/20 09:11
Dichlorofluoromethane	2.90	Baseline	jantanuc	10/02/20 14:14
Trichlorofluoromethane	2.95	Baseline	jantanuc	10/02/20 14:14
Ethyl ether	3.34	Incomplete Integration	bohnc	10/02/20 09:12
Acrolein	3.53	Baseline	jantanuc	10/02/20 14:14
1,1,2-Trichloro-1,2,2-trifluoroethane	3.75	Baseline	jantanuc	10/02/20 14:14
Iodomethane	3.89	Baseline	jantanuc	10/02/20 14:14
Carbon disulfide	4.01	Baseline	jantanuc	10/02/20 14:14
Isopropyl alcohol	4.06	Baseline	jantanuc	10/02/20 14:14
Acetonitrile	4.28	Baseline	jantanuc	10/02/20 14:14
Methyl acetate	4.31	Baseline	jantanuc	10/02/20 14:14
Methylene Chloride	4.55	Baseline	jantanuc	10/02/20 14:14
2-Methyl-2-propanol	4.82	Baseline	jantanuc	10/02/20 14:14
Acrylonitrile	5.00	Baseline	jantanuc	10/02/20 14:14
trans-1,2-Dichloroethene	5.05	Baseline	jantanuc	10/02/20 14:14
Methyl tert-butyl ether	5.08	Baseline	jantanuc	10/02/20 14:14
Hexane	5.65	Baseline	jantanuc	10/02/20 14:15
1,1-Dichloroethane	5.90	Baseline	jantanuc	10/02/20 14:15
Vinyl acetate	5.97	Baseline	jantanuc	10/02/20 14:15
2-Chloro-1,3-butadiene	6.04	Baseline	jantanuc	10/02/20 14:15
Tert-butyl ethyl ether	6.70	Baseline	jantanuc	10/02/20 14:15
2,2-Dichloropropane	6.92	Baseline	jantanuc	10/02/20 14:15
cis-1,2-Dichloroethene	6.93	Baseline	jantanuc	10/02/20 14:15
Propionitrile	7.01	Assign Peak	bohnc	10/02/20 09:37
Ethyl acetate	7.07	Baseline	bohnc	10/02/20 09:46
Methacrylonitrile	7.26	Baseline	jantanuc	10/02/20 14:15

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 339812Lab Sample ID: IC 580-339812/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/01/20 17:21 Lab File ID: 10012020\_003.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobromomethane	7.31	Incomplete Integration	bohnc	10/02/20 09:47
Chloroform	7.50	Incomplete Integration	bohnc	10/02/20 09:47
1,1,1-Trichloroethane	7.70	Incomplete Integration	bohnc	10/02/20 09:48
Cyclohexane	7.81	Incomplete Integration	bohnc	10/02/20 09:48
Carbon tetrachloride	7.92	Incomplete Integration	bohnc	10/02/20 09:48
1,1-Dichloropropene	7.95	Baseline	jantanuc	10/02/20 14:16
Tert-amyl methyl ether	8.42	Baseline	jantanuc	10/02/20 14:16
Tetrahydrofuran	8.63	Baseline	bohnc	10/02/20 10:09
Trichloroethene	9.03	Baseline	jantanuc	10/02/20 14:16
Ethyl acrylate	9.15	Baseline	jantanuc	10/02/20 14:16
n-Butanol	9.26	Baseline	jantanuc	10/02/20 14:16
1,2-Dichloropropane	9.30	Baseline	bohnc	10/02/20 10:10
Dibromomethane	9.39	Baseline	jantanuc	10/02/20 14:16
Methyl methacrylate	9.40	Baseline	bohnc	10/02/20 10:10
2-Nitropropane	9.81	Baseline	jantanuc	10/02/20 14:16
2-Chloroethyl vinyl ether	9.88	Incomplete Integration	bohnc	10/02/20 09:48
3-Chloro-1-propene		Invalid Compound ID	bohnc	10/02/20 09:12
Chloroethane		Invalid Compound ID	bohnc	10/02/20 09:11
n-Butyl acetate		Invalid Compound ID	bohnc	10/02/20 09:49
Chlorobenzene	11.60	Baseline	jantanuc	10/02/20 14:17
trans-1,4-Dichloro-2-butene	12.69	Baseline	bohnc	10/02/20 10:13
1,3,5-Trimethylbenzene	12.90	Baseline	bohnc	10/02/20 10:51
1,4-Dichlorobenzene	13.51	Baseline	jantanuc	10/02/20 14:17

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 339812Lab Sample ID: IC 580-339812/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/01/20 17:47 Lab File ID: 10012020\_004.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.06	Baseline	jantanuc	10/02/20 14:08
Bromomethane	2.46	Baseline	jantanuc	10/02/20 14:08
Trichlorofluoromethane	2.94	Baseline	jantanuc	10/02/20 14:08
1,1-Dichloroethene	3.67	Baseline	jantanuc	10/02/20 14:08
1,1,2-Trichloro-1,2,2-trifluoroethane	3.73	Baseline	jantanuc	10/02/20 14:08
Iodomethane	3.87	Baseline	jantanuc	10/02/20 14:08
Carbon disulfide	4.01	Baseline	jantanuc	10/02/20 14:08
Isopropyl alcohol	4.04	Baseline	jantanuc	10/02/20 14:08
Acetonitrile	4.29	Baseline	jantanuc	10/02/20 14:08
Methyl acetate	4.31	Baseline	jantanuc	10/02/20 14:09
Methylene Chloride	4.53	Baseline	jantanuc	10/02/20 14:09
TBA-d9 (IS)	4.64	Baseline	jantanuc	10/02/20 14:09
2-Methyl-2-propanol	4.84	Baseline	jantanuc	10/02/20 14:09
trans-1,2-Dichloroethene	5.06	Baseline	jantanuc	10/02/20 14:09
Methyl tert-butyl ether	5.09	Baseline	jantanuc	10/02/20 14:09
Hexane	5.64	Baseline	jantanuc	10/02/20 14:09
1,1-Dichloroethane	5.89	Baseline	jantanuc	10/02/20 14:09
Vinyl acetate	5.98	Baseline	jantanuc	10/02/20 14:09
Tert-butyl ethyl ether	6.70	Baseline	jantanuc	10/02/20 14:09
2-Butanone (MEK)	6.93	Baseline	jantanuc	10/02/20 14:10
Propionitrile	7.02	Baseline	jantanuc	10/02/20 14:10
Chlorobromomethane	7.31	Baseline	jantanuc	10/02/20 14:10
Chloroform	7.50	Baseline	jantanuc	10/02/20 14:10
Isobutyl alcohol	8.21	Baseline	bohnc	10/02/20 09:51
Tetrahydrofuran	8.63	Assign Peak	bohnc	10/02/20 10:05
Trichloroethene	9.02	Baseline	jantanuc	10/02/20 14:10
Ethyl acrylate	9.16	Baseline	bohnc	10/02/20 10:52
Methylcyclohexane	9.27	Baseline	jantanuc	10/02/20 14:10
1,2-Dichloropropane	9.29	Baseline	jantanuc	10/02/20 14:10

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 339812Lab Sample ID: IC 580-339812/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/01/20 17:47 Lab File ID: 10012020\_004.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butyl acetate	10.46	Baseline	jantanuc	10/02/20 14:11
1,4-Dichlorobenzene	13.51	Baseline	jantanuc	10/02/20 14:11

Lab Sample ID: IC 580-339812/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/01/20 18:13 Lab File ID: 10012020\_005.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.06	Baseline	jantanuc	10/02/20 13:57
Bromomethane	2.45	Baseline	jantanuc	10/02/20 13:57
Chloroethane	2.58	Incomplete Integration	bohnc	10/02/20 09:24
Dichlorofluoromethane	2.92	Baseline	jantanuc	10/02/20 13:58
Trichlorofluoromethane	2.94	Baseline	jantanuc	10/02/20 13:58
3-Chloro-1-propene	2.97	Assign Peak	bohnc	10/02/20 09:26
Acrolein	3.51	Baseline	jantanuc	10/02/20 13:58
1,1-Dichloroethene	3.69	Baseline	jantanuc	10/02/20 13:58
1,1,2-Trichloro-1,2,2-trifluoroethane	3.75	Baseline	jantanuc	10/02/20 13:58
Iodomethane	3.90	Baseline	jantanuc	10/02/20 13:58
Carbon disulfide	4.01	Baseline	jantanuc	10/02/20 13:58
Isopropyl alcohol	4.06	Baseline	jantanuc	10/02/20 13:58
Acetonitrile	4.24	Assign Peak	bohnc	10/02/20 09:32
Methylene Chloride	4.53	Baseline	jantanuc	10/02/20 13:59
2-Methyl-2-propanol	4.82	Baseline	jantanuc	10/02/20 13:59
trans-1,2-Dichloroethene	5.07	Baseline	jantanuc	10/02/20 13:59
1,1-Dichloroethane	5.90	Baseline	jantanuc	10/02/20 13:59
Chloroform	7.50	Baseline	jantanuc	10/02/20 13:59
Tetrahydrofuran	8.63	Baseline	bohnc	10/02/20 10:05
Trichloroethene	9.02	Baseline	jantanuc	10/02/20 14:05
1,2-Dichloropropane	9.29	Baseline	jantanuc	10/02/20 14:06

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 339812Lab Sample ID: IC 580-339812/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/01/20 18:39 Lab File ID: 10012020\_006.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.70	Incomplete Integration	bohnc	10/02/20 08:46
Butadiene	2.11	Incomplete Integration	bohnc	10/02/20 08:46
Bromomethane	2.43	Incomplete Integration	bohnc	10/02/20 09:19
Chloroethane	2.56	Incomplete Integration	bohnc	10/02/20 09:24
Dichlorofluoromethane	2.90	Baseline	jantanuc	10/02/20 13:55
Trichlorofluoromethane	2.93	Baseline	jantanuc	10/02/20 13:55
3-Chloro-1-propene	2.95	Assign Peak	bohnc	10/02/20 09:28
1,1-Dichloroethene	3.68	Baseline	jantanuc	10/02/20 13:55
1,1,2-Trichloro-1,2,2-trifluoroethane	3.73	Baseline	jantanuc	10/02/20 13:56
Iodomethane	3.89	Baseline	jantanuc	10/02/20 13:55
Carbon disulfide	4.00	Baseline	jantanuc	10/02/20 13:56
Isopropyl alcohol	4.11	Baseline	jantanuc	10/02/20 13:56
Acetonitrile	4.25	Assign Peak	bohnc	10/02/20 09:31
Methylene Chloride	4.53	Baseline	jantanuc	10/02/20 13:56
2-Methyl-2-propanol	4.86	Baseline	jantanuc	10/02/20 13:56
2,2-Dichloropropane	6.90	Baseline	jantanuc	10/02/20 13:56
Tetrahydrofuran	8.63	Peak assignment corrected	bohnc	10/02/20 10:04
Trichloroethene	9.02	Baseline	jantanuc	10/02/20 13:56
1,2-Dichloropropane	9.29	Baseline	jantanuc	10/02/20 13:57



## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 339812Lab Sample ID: ICIS 580-339812/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/01/20 19:04 Lab File ID: 10012020\_007.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	2.61	Baseline	jantanuc	10/02/20 12:55
Trichlorofluoromethane	2.96	Baseline	jantanuc	10/02/20 12:55
1,1-Dichloroethene	3.70	Baseline	jantanuc	10/02/20 12:55
1,1,2-Trichloro-1,2,2-trifluoroethane	3.75	Baseline	jantanuc	10/02/20 12:55
Iodomethane	3.89	Baseline	jantanuc	10/02/20 12:55
Carbon disulfide	4.02	Baseline	jantanuc	10/02/20 12:56
2,2-Dichloropropane	6.91	Baseline	jantanuc	10/02/20 12:56
Tetrahydrofuran	8.63	Peak assignment corrected	bohnc	10/02/20 10:00
Trichloroethene	9.02	Baseline	jantanuc	10/02/20 12:56
1,2-Dichloropropane	9.29	Baseline	jantanuc	10/02/20 12:56

Lab Sample ID: IC 580-339812/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/01/20 19:30 Lab File ID: 10012020\_008.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.06	Baseline	jantanuc	10/02/20 13:01
Butadiene	2.11	Baseline	jantanuc	10/02/20 13:01
Trichlorofluoromethane	2.95	Baseline	jantanuc	10/02/20 13:01
1,1-Dichloroethene	3.68	Baseline	jantanuc	10/02/20 13:01
Iodomethane	3.88	Baseline	jantanuc	10/02/20 13:01
Tetrahydrofuran	8.63	Peak assignment corrected	bohnc	10/02/20 10:01
Trichloroethene	9.03	Baseline	jantanuc	10/02/20 13:02
1,2-Dichloropropane	9.29	Baseline	jantanuc	10/02/20 13:02

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 339812Lab Sample ID: IC 580-339812/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/01/20 19:56 Lab File ID: 10012020\_009.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloro-1-propene	2.96	Incomplete Integration	bohnc	10/02/20 09:27
Iodomethane	3.90	Baseline	jantanuc	10/02/20 13:26
Tetrahydrofuran	8.63	Peak assignment corrected	bohnc	10/02/20 10:03
Trichloroethene	9.02	Baseline	jantanuc	10/02/20 13:26
1,2-Dichloropropane	9.29	Baseline	jantanuc	10/02/20 13:26

Lab Sample ID: IC 580-339812/11 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/01/20 20:22 Lab File ID: 10012020\_010.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.47	Baseline	jantanuc	10/02/20 13:28
Trichlorofluoromethane	2.95	Baseline	jantanuc	10/02/20 13:28
Acetonitrile	4.19	Baseline	jantanuc	10/02/20 13:28
Tetrahydrofuran	8.63	Peak assignment corrected	bohnc	10/02/20 10:03
Trichloroethene	9.02	Baseline	jantanuc	10/02/20 13:29
1,2-Dichloropropane	9.29	Baseline	jantanuc	10/02/20 13:29
n-Butyl acetate	10.48	Baseline	jantanuc	10/02/20 13:29
1,4-Dichlorobenzene-d4	13.49	Peak assignment corrected	bohnc	10/02/20 09:23

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 339812Lab Sample ID: ICV 580-339812/13 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/01/20 21:13 Lab File ID: 10012020\_012.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.46	Baseline	jantanuc	10/02/20 13:30
Dichlorofluoromethane	2.91	Baseline	jantanuc	10/02/20 13:30
Trichlorofluoromethane	2.96	Baseline	jantanuc	10/02/20 13:30
1,1-Dichloroethene	3.68	Baseline	jantanuc	10/02/20 13:30
1,1,2-Trichloro-1,2,2-trifluoroethane	3.75	Baseline	jantanuc	10/02/20 13:30
Iodomethane	3.90	Baseline	jantanuc	10/02/20 13:30
Acetonitrile	4.20	Baseline	jantanuc	10/02/20 13:30
Methylene Chloride	4.53	Baseline	jantanuc	10/02/20 13:30
2,2-Dichloropropane	6.90	Baseline	jantanuc	10/02/20 13:31
Tetrahydrofuran	8.63	Peak assignment corrected	bohnc	10/02/20 10:30
Trichloroethene	9.02	Baseline	jantanuc	10/02/20 13:31
1,2-Dichloropropane	9.29	Baseline	jantanuc	10/02/20 13:31
n-Butyl acetate	10.48	Baseline	jantanuc	10/02/20 13:31

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 340383Lab Sample ID: CCVIS 580-340383/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/07/20 14:20 Lab File ID: 10072020\_003.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.71	Baseline	jantanuc	10/09/20 09:47
Vinyl chloride	2.05	Baseline	jantanuc	10/09/20 09:47
Butadiene	2.11	Baseline	jantanuc	10/09/20 09:47
Bromomethane	2.47	Baseline	jantanuc	10/09/20 09:47
Chloroethane	2.59	Baseline	jantanuc	10/09/20 09:47
Trichlorofluoromethane	2.95	Baseline	jantanuc	10/09/20 09:47
3-Chloro-1-propene	2.96	Baseline	jantanuc	10/09/20 09:48
1,1-Dichloroethene	3.70	Baseline	jantanuc	10/09/20 09:48
1,1,2-Trichloro-1,2,2-trifluoroethane	3.74	Baseline	jantanuc	10/09/20 09:48
Iodomethane	3.90	Baseline	jantanuc	10/09/20 09:48
Carbon disulfide	4.02	Baseline	jantanuc	10/09/20 09:48
Isopropyl alcohol	4.04	Baseline	jantanuc	10/09/20 09:52
1,2-Dichloropropane	9.29	Baseline	jantanuc	10/09/20 09:53

Lab Sample ID: LCS 580-340245/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 10/07/20 14:45 Lab File ID: 10072020\_004.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.05	Baseline	jantanuc	10/09/20 09:55
Bromomethane	2.47	Baseline	jantanuc	10/09/20 09:55
Chloroethane	2.61	Baseline	jantanuc	10/09/20 09:55
Trichlorofluoromethane	2.94	Baseline	jantanuc	10/09/20 09:55
1,1-Dichloroethene	3.70	Baseline	jantanuc	10/09/20 09:56
Methylene Chloride	4.54	Baseline	jantanuc	10/09/20 09:56
Methyl tert-butyl ether	5.08	Baseline	jantanuc	10/09/20 09:56
2,2-Dichloropropane	6.91	Baseline	jantanuc	10/09/20 09:56
1,2-Dichloropropane	9.29	Baseline	jantanuc	10/09/20 09:58

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 340383Lab Sample ID: LCSD 580-340245/3-A Client Sample ID: \_\_\_\_\_Date Analyzed: 10/07/20 15:11 Lab File ID: 10072020\_005.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.70	Baseline	jantanuc	10/09/20 10:09
Vinyl chloride	2.05	Baseline	jantanuc	10/09/20 10:10
Bromomethane	2.47	Baseline	jantanuc	10/09/20 10:10
Chloroethane	2.59	Baseline	jantanuc	10/09/20 10:10
Trichlorofluoromethane	2.95	Baseline	jantanuc	10/09/20 10:11
1,1-Dichloroethene	3.69	Baseline	jantanuc	10/09/20 10:11
Methyl tert-butyl ether	5.08	Baseline	jantanuc	10/09/20 10:13
1,2-Dichloropropane	9.29	Baseline	jantanuc	10/09/20 10:14

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 340383Lab Sample ID: CCVL 580-340383/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/07/20 15:37 Lab File ID: 10072020\_006.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.71	Baseline	jantanuc	10/09/20 10:18
Chloromethane	1.91	Baseline	jantanuc	10/09/20 10:19
Vinyl chloride	2.06	Baseline	jantanuc	10/09/20 10:19
Butadiene	2.09	Baseline	jantanuc	10/09/20 10:19
Bromomethane	2.45	Baseline	jantanuc	10/09/20 10:19
Chloroethane	2.57	Baseline	jantanuc	10/09/20 10:19
Dichlorofluoromethane	2.91	Baseline	jantanuc	10/09/20 10:19
3-Chloro-1-propene	2.95	Baseline	jantanuc	10/09/20 10:19
Trichlorofluoromethane	2.95	Baseline	jantanuc	10/09/20 10:19
1,1-Dichloroethene	3.70	Baseline	jantanuc	10/09/20 10:19
1,1,2-Trichloro-1,2,2-trifluoroethane	3.74	Baseline	jantanuc	10/09/20 10:19
Iodomethane	3.91	Baseline	jantanuc	10/09/20 10:19
Carbon disulfide	4.03	Baseline	jantanuc	10/09/20 10:20
Isopropyl alcohol	4.04	Baseline	jantanuc	10/09/20 10:20
Acetonitrile	4.21	Baseline	jantanuc	10/09/20 10:20
Methyl acetate	4.31	Baseline	jantanuc	10/09/20 10:20
Methylene Chloride	4.54	Baseline	jantanuc	10/09/20 10:20
trans-1,2-Dichloroethene	5.06	Baseline	jantanuc	10/09/20 10:20
Vinyl acetate	5.99	Baseline	jantanuc	10/09/20 10:20
Tert-butyl ethyl ether	6.70	Baseline	jantanuc	10/09/20 10:20
n-Butanol	9.26	Baseline	jantanuc	10/09/20 10:21

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 340383Lab Sample ID: MB 580-340245/1-A Client Sample ID: \_\_\_\_\_Date Analyzed: 10/07/20 16:03 Lab File ID: 10072020\_007.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.52	Baseline	jantanuc	10/09/20 10:30
Benzene		Invalid Compound ID	jantanuc	10/09/20 10:31
Chlorobenzene		Invalid Compound ID	jantanuc	10/09/20 10:31
Chloromethane		Invalid Compound ID	jantanuc	10/09/20 10:30
m-Xylene & p-Xylene	11.80	Baseline	jantanuc	10/09/20 10:32
Naphthalene	15.25	Baseline	jantanuc	10/09/20 10:32

Lab Sample ID: 580-98033-5 Client Sample ID: Trip-Blank-02Date Analyzed: 10/07/20 16:29 Lab File ID: 10072020\_008.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromofluoromethane (Surr)	7.74	Incomplete Integration	bohnc	10/13/20 11:11
1,2-Dichloroethane-d4 (Surr)	8.17	Incomplete Integration	bohnc	10/13/20 11:11
o-Xylene		Invalid Compound ID	bohnc	10/13/20 11:11
4-Bromofluorobenzene (Surr)	12.57	Incomplete Integration	bohnc	10/13/20 11:11

Lab Sample ID: 580-98033-1 Client Sample ID: AB-01B-15.5Date Analyzed: 10/07/20 17:20 Lab File ID: 10072020\_010.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.55	Baseline	jantanuc	10/09/20 10:36
Chloroform	7.51	Baseline	jantanuc	10/09/20 10:36

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 340383Lab Sample ID: 580-98033-2 Client Sample ID: AB-02B-16.5Date Analyzed: 10/07/20 17:45 Lab File ID: 10072020\_011.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.53	Baseline	jantanuc	10/09/20 10:50
1,2,3-Trichlorobenzene		Invalid Compound ID	jantanuc	10/09/20 11:07
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	10/09/20 10:53
1,2,4-Trichlorobenzene		Invalid Compound ID	jantanuc	10/09/20 11:07
1,2,4-Trimethylbenzene		Invalid Compound ID	jantanuc	10/09/20 10:54
1,2-Dichlorobenzene		Invalid Compound ID	jantanuc	10/09/20 11:06
1,3,5-Trimethylbenzene		Invalid Compound ID	jantanuc	10/09/20 10:54
4-Chlorotoluene		Invalid Compound ID	jantanuc	10/09/20 10:54
Chlorobenzene		Invalid Compound ID	jantanuc	10/09/20 10:51
Ethylene Dibromide		Invalid Compound ID	jantanuc	10/09/20 10:51
Isopropylbenzene		Invalid Compound ID	jantanuc	10/09/20 10:53
m-Xylene & p-Xylene		Invalid Compound ID	jantanuc	10/09/20 10:51
N-Propylbenzene		Invalid Compound ID	jantanuc	10/09/20 10:54
Styrene		Invalid Compound ID	jantanuc	10/09/20 10:53
4-Isopropyltoluene	13.44	Baseline	jantanuc	10/09/20 10:55
1,4-Dichlorobenzene-d4	13.49	Baseline	jantanuc	10/09/20 10:55



## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 340383Lab Sample ID: 580-98033-3 Client Sample ID: AB-03B-16.5Date Analyzed: 10/07/20 18:11 Lab File ID: 10072020\_012.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.54	Baseline	jantanuc	10/09/20 11:12
1,1,2-Trichloroethane		Invalid Compound ID	jantanuc	10/09/20 11:12
1,2,3-Trichlorobenzene		Invalid Compound ID	jantanuc	10/09/20 11:15
1,2,3-Trichloropropane		Invalid Compound ID	jantanuc	10/09/20 11:14
1,2,4-Trichlorobenzene		Invalid Compound ID	jantanuc	10/09/20 11:15
1,3,5-Trimethylbenzene		Invalid Compound ID	jantanuc	10/09/20 11:14
1,3-Dichlorobenzene		Invalid Compound ID	jantanuc	10/09/20 11:15
4-Chlorotoluene		Invalid Compound ID	jantanuc	10/09/20 11:14
Chlorobenzene		Invalid Compound ID	jantanuc	10/09/20 11:14
Chloromethane		Invalid Compound ID	jantanuc	10/09/20 11:12
Ethylbenzene		Invalid Compound ID	jantanuc	10/09/20 11:14
Ethylene Dibromide		Invalid Compound ID	jantanuc	10/09/20 11:14
Isopropylbenzene		Invalid Compound ID	jantanuc	10/09/20 11:14
m-Xylene & p-Xylene		Invalid Compound ID	jantanuc	10/09/20 11:14
Styrene		Invalid Compound ID	jantanuc	10/09/20 11:14
tert-Butylbenzene		Invalid Compound ID	jantanuc	10/09/20 11:14
Chlorobenzene-d5	11.58	Peak assignment corrected	mckelljs	10/08/20 14:38
1,4-Dichlorobenzene-d4	13.50	Baseline	jantanuc	10/09/20 11:15

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 340383

Lab Sample ID: 580-98033-4 Client Sample ID: AB-04B-16.5

Date Analyzed: 10/07/20 18:37 Lab File ID: 10072020\_013.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	4.55	Baseline	jantanuc	10/09/20 11:25
cis-1,2-Dichloroethene	6.92	Baseline	jantanuc	10/09/20 11:25
1,2,4-Trimethylbenzene		Invalid Compound ID	jantanuc	10/09/20 11:26
2,2-Dichloropropane		Invalid Compound ID	jantanuc	10/09/20 11:25
4-Chlorotoluene		Invalid Compound ID	jantanuc	10/09/20 11:26
sec-Butylbenzene		Invalid Compound ID	jantanuc	10/09/20 11:26
Naphthalene	15.24	Baseline	jantanuc	10/09/20 11:26

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Analysis Batch Number: 340807Lab Sample ID: CCVIS 580-340807/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 10/14/20 16:05 Lab File ID: 10142020\_003.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	2.60	Incomplete Integration	limwirojt	10/15/20 10:35
Dichlorofluoromethane	2.91	Incomplete Integration	limwirojt	10/15/20 10:35
Trichlorofluoromethane	2.95	Incomplete Integration	limwirojt	10/15/20 10:35
3-Chloro-1-propene	2.97	Incomplete Integration	limwirojt	10/15/20 10:36
1,1-Dichloroethene	3.69	Incomplete Integration	limwirojt	10/15/20 10:36
Iodomethane	3.89	Incomplete Integration	limwirojt	10/15/20 10:37
Carbon disulfide	4.01	Incomplete Integration	bohnc	10/14/20 16:25
1,2-Dichloropropane	9.29	Incomplete Integration	limwirojt	10/15/20 10:40

Lab Sample ID: 580-98033-2 RA Client Sample ID: AB-02B-16.5 RADate Analyzed: 10/14/20 19:57 Lab File ID: 10142020\_012.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butylbenzene		Invalid Compound ID	limwirojt	10/15/20 12:58
sec-Butylbenzene	13.33	Incomplete Integration	limwirojt	10/15/20 11:24
1,4-Dichlorobenzene-d4	13.49	Split Peak	limwirojt	10/15/20 12:53

Lab Sample ID: 580-98033-3 RA Client Sample ID: AB-03B-16.5 RADate Analyzed: 10/14/20 20:23 Lab File ID: 10142020\_013.D GC Column: 624SIL-MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Isopropyltoluene		Invalid Compound ID	limwirojt	10/15/20 11:30
n-Butylbenzene		Invalid Compound ID	limwirojt	10/15/20 11:33
sec-Butylbenzene	13.33	Assign Peak	limwirojt	10/15/20 11:30
1,4-Dichlorobenzene-d4	13.49	Split Peak	limwirojt	10/15/20 12:54

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC013 Analysis Batch Number: 332639

Lab Sample ID: IC 580-332639/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 07/09/20 10:29 Lab File ID: 070920a\_003.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	3.70	Peak assignment corrected	mohammedj c	07/09/20 15:18

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Seattl Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC013 Analysis Batch Number: 340757

Lab Sample ID: CCV 580-340757/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/14/20 12:04 Lab File ID: 101420\_035a.D GC Column: ZB-1HT ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	3.57	Incomplete Integration	basiln	10/14/20 13:21

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration								
					Reagent ID	Volume Added										
5X SUR/IS_00001							1,2-Dichloroethene, Total									
							1,3-Dichloropropene, Total									
							TAH									
							Tentatively Identified Compound									
							Xylenes, Total									
							VOARSURR/IS_00048	10 mL	1,2-Dichloroethane-d4 (Surr)	50 ppm						
									1,4-Dichlorobenzene-d4	50 ppm						
									4-Bromofluorobenzene (Surr)	50 ppm						
									BFB	50 ppm						
									Chlorobenzene-d5	50 ppm						
									Dibromofluoromethane (Surr)	50 ppm						
.VOARSURR/IS_00048	10/31/22		Restek, Lot A0131478				(Purchased Reagent)	1,2-Dichloroethane-d4 (Surr)	250 ug/mL							
								1,4-Dichlorobenzene-d4	250 ug/mL							
								4-Bromofluorobenzene (Surr)	250 ug/mL							
								BFB	250 ug/mL							
								Chlorobenzene-d5	250 ug/mL							
								Dibromofluoromethane (Surr)	250 ug/mL							
								Fluorobenzene (IS)	250 ug/mL							
								TBA-d9 (IS)	5000 ug/mL							
								Toluene-d8 (Surr)	250 ug/mL							
							TPH Spike_RZ_00106	06/30/27		Restek, Lot A0160525				(Purchased Reagent)	#2 Diesel (C10-C24)	50000 ug/mL
															#2 Diesel Fuel	50000 ug/mL
	C10-C15	50000 ug/mL														
	C10-C25	50000 ug/mL														
	C10-C28	50000 ug/mL														
	C10-C36	50000 ug/mL														
	C12-C24	50000 ug/mL														
	C15-C24	50000 ug/mL														
	C16-C36	50000 ug/mL														
	C18-C36	50000 ug/mL														
	C24-C32	50000 ug/mL														
	C24-C36	50000 ug/mL														
	C24-C40	50000 ug/mL														
	C25-C36	50000 ug/mL														
	C28-C40	50000 ug/mL														
	C9-C25	50000 ug/mL														
	Motor Oil (>C24-C36)	50000 ug/mL														
TPH-IC*_10000_00008	09/30/20	07/09/20	DCM, Lot CT#183	10 mL		TPH Spike_RZ_00105	2 mL	#2 Diesel (C10-C24)	10000 mg/L							
									C12-C24	10000 mg/L						
									C24-C40	10000 mg/L						
									Motor Oil (>C24-C36)	10000 mg/L						
		TPH SURR 00049	2 mL	o-Terphenyl	206.7 mg/L											
.TPH Spike_RZ_00105	06/30/27		Restek, Lot A0160525			(Purchased Reagent)	#2 Diesel (C10-C24)	50000 ug/mL								

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							C12-C24	50000 ug/mL
							C24-C40	50000 ug/mL
							Motor Oil (>C24-C36)	50000 ug/mL
.TPH SURR 00049	09/30/20	06/27/20	DCM, Lot CT #173	200 mL	oterphenyl_00011	0.2067 g	o-Terphenyl	1033.5 mg/L
..oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
<b>TPH-IC* 10000_00010</b>	03/30/21	10/02/20	DCM, Lot CT#183	10 mL	TPH SURR 00053	2 mL	o-Terphenyl	206.7 mg/L
.TPH SURR 00053	03/30/21	10/02/20	DCM, Lot CT #163	200 mL	oterphenyl_00011	0.2067 g	o-Terphenyl	1033.5 mg/L
..oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
<b>TPH-IC*_10000_00010</b>	03/30/21	10/02/20	DCM, Lot CT#183	10 mL	TPH Spike_RZ_00105	2 mL	#2 Diesel (C10-C24)	10000 mg/L
.TPH Spike_RZ_00105	06/30/27		Restek, Lot A0160525		(Purchased Reagent)		Motor Oil (>C24-C36)	10000 mg/L
							#2 Diesel (C10-C24)	50000 ug/mL
							Motor Oil (>C24-C36)	50000 ug/mL
<b>TPH-IC*_500_00011</b>	09/30/20	07/09/20	DCM, Lot CT#183	100 mL	TPH-IC*_10000_00008	5000 uL	#2 Diesel (C10-C24)	500 mg/L
							C12-C24	500 mg/L
							C24-C40	500 mg/L
							Motor Oil (>C24-C36)	500 mg/L
							o-Terphenyl	10.335 mg/L
.TPH-IC*_10000_00008	09/30/20	07/09/20	DCM, Lot CT#183	10 mL	TPH Spike_RZ_00105	2 mL	#2 Diesel (C10-C24)	10000 mg/L
							C12-C24	10000 mg/L
							C24-C40	10000 mg/L
							Motor Oil (>C24-C36)	10000 mg/L
..TPH Spike_RZ_00105	06/30/27		Restek, Lot A0160525		TPH SURR 00049	2 mL	o-Terphenyl	206.7 mg/L
					(Purchased Reagent)		#2 Diesel (C10-C24)	50000 ug/mL
							C12-C24	50000 ug/mL
							C24-C40	50000 ug/mL
							Motor Oil (>C24-C36)	50000 ug/mL
..TPH SURR 00049	09/30/20	06/27/20	DCM, Lot CT #173	200 mL	oterphenyl_00011	0.2067 g	o-Terphenyl	1033.5 mg/L
...oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
<b>TPH-IC*_500_00015</b>	03/30/21	10/02/20	DCM, Lot CT#188	30 mL	TPH-IC*_10000_00010	1.5 mL	o-Terphenyl	10.335 mg/L
.TPH-IC*_10000_00010	03/30/21	10/02/20	DCM, Lot CT#183	10 mL	TPH SURR 00053	2 mL	o-Terphenyl	206.7 mg/L
..TPH SURR 00053	03/30/21	10/02/20	DCM, Lot CT #163	200 mL	oterphenyl_00011	0.2067 g	o-Terphenyl	1033.5 mg/L
...oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
<b>TPH-IC*_500_00015</b>	03/30/21	10/02/20	DCM, Lot CT#188	30 mL	TPH-IC*_10000_00010	1.5 mL	#2 Diesel (C10-C24)	500 mg/L
.TPH-IC*_10000_00010	03/30/21	10/02/20	DCM, Lot CT#183	10 mL	TPH Spike_RZ_00105	2 mL	Motor Oil (>C24-C36)	500 mg/L
							#2 Diesel (C10-C24)	10000 mg/L
							Motor Oil (>C24-C36)	10000 mg/L
..TPH Spike_RZ_00105	06/30/27		Restek, Lot A0160525		(Purchased Reagent)		#2 Diesel (C10-C24)	50000 ug/mL
							Motor Oil (>C24-C36)	50000 ug/mL
<b>TPH-IC 10000_00076</b>	09/30/20	10/14/19	DCM, Lot CT#163	10 mL	TPH SURR 00047	4 mL	o-Terphenyl	402.88 mg/L
.TPH SURR 00047	09/30/20	10/01/19	DCM, Lot CT #163	250 mL	oterphenyl_00011	0.2518 g	o-Terphenyl	1007.2 mg/L
..oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
<b>TPH-IC_10000_00076</b>	09/30/20	10/14/19	DCM, Lot CT#163	10 mL	#2Diesel Accu 00014	2 mL	#2 Diesel (C10-C24)	10000 mg/L
..#2Diesel Accu 00014	10/12/28		Accustandard, Lot 218101242		MotorOil Accu 00016	2 mL	Motor Oil (>C24-C36)	10000 mg/L
.MotorOil Accu 00016	07/19/28		Accustandard, Lot 216011208		(Purchased Reagent)		#2 Diesel (C10-C24)	50 mg/mL
							Motor Oil (>C24-C36)	50 mg/mL
<b>TPH-RTC_00058</b>	04/01/21	10/01/20	DCM, Lot CT#184	25 mL	TPH_SURR_00051	1 mL	o-Terphenyl	41.08 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.TPH_SURR_00051	04/01/21	10/01/20	DCM, Lot CT #173	200 mL	oterphenyl_00011	0.2054 g	o-Terphenyl	1027 mg/L
.oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
<b>TPH_SURR_00051</b>	04/01/21	10/01/20	DCM, Lot CT #173	200 mL	BFBNeat_00012	0.2039 g	4-Bromofluorobenzene (Surr)	1019.5 mg/L
					nC30d62_00016	0.2044 g	n-Triacontane-d62	1022 mg/L
					oterphenyl_00011	0.2054 g	o-Terphenyl	1027 mg/L
.BFBNeat_00012	04/01/21		Aldrich, Lot 20401KO		(Purchased Reagent)		4-Bromofluorobenzene (Surr)	1000000 ug/mL
.nC30d62_00016	06/04/23		Aldrich, Lot MBBC4347		(Purchased Reagent)		n-Triacontane-d62	100 %
.oterphenyl_00011	03/02/23		Aldrich, Lot MKBV3687V		(Purchased Reagent)		o-Terphenyl	100 %
<b>VOAMasterMix_00057</b>	01/31/21	06/19/20	MeOH, Lot 230446	50 mL	8260 L2/S7_00018	1000 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VOAR2CEVE_00021	1000 uL	2-Chloroethyl vinyl ether	50 ug/mL
					VOARAcrolein_00061	750 uL	Acrolein	300 ug/mL
					VOARADDCOM_00026	1000 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VOARGAS_00024	1000 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
					VOARKETON_00026	1000 uL	2-Butanone (MEK)	250 ug/mL
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	250 ug/mL
							Acetone	250 ug/mL
					VOARMegMix_00034	1000 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VOARPOLARAD_00019	1250 uL	Acetonitrile	625 ug/mL
							Isopropyl ether	62.5 ug/mL
							Propionitrile	625 ug/mL
							Tert-amyl methyl ether	62.5 ug/mL
							Tert-butyl ethyl ether	62.5 ug/mL
					VOARVA_00053	1250 uL	Vinyl acetate	125 ug/mL
.8260 L2/S7_00018	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.VOAR2CEVE_00021	02/28/22		Restek, Lot A0146250		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcrolein_00061	07/31/21		Restek, Lot A0156861		(Purchased Reagent)		Acrolein	20000 ug/mL
.VOARADDCOM_00026	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VOARGAS_00024	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOARKETON_00026	12/31/22		Restek, Lot A0156095		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARMegMix_00034	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropane	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.VOARPOLARAD__00019	01/31/21		Restek, Lot A0144915			(Purchased Reagent)	Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARVA 00053	07/31/21		Restek, Lot A0156559			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
<b>VOAMasterMix_00060</b>	01/23/21	09/17/20	MeOH, Lot 230446	50 mL	8260 L2/S7_00018	1000 uL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					Methanol 1L 00038	40.75 mL	Methanol	815000 ug/mL
					VOAR2CEVE_00022	1000 uL	2-Chloroethyl vinyl ether	50 ug/mL
					VOARAcrolein 00063	750 uL	Acrolein	300 ug/mL
					VOARADDCOM_00026	1000 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VOARGAS__00024	1000 uL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	50 ug/mL
					VOARKETON__00026	1000 uL	2-Butanone (MEK)	250 ug/mL
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	250 ug/mL
							Acetone	250 ug/mL
					VOARMegMix__00035	1000 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropane	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VOARPOLARAD_00019	1250 uL	Acetonitrile	625 ug/mL
							Isopropyl ether	62.5 ug/mL
							Propionitrile	625 ug/mL
							tert-amyl alcohol TIC	625 ug/mL
							Tert-amyl methyl ether	62.5 ug/mL
							Tert-butyl ethyl ether	62.5 ug/mL
					VOARVA_00056	1250 uL	Vinyl acetate	125 ug/mL
.8260 L2/S7_00018	06/30/21		Restek, Lot A0156071				Ethyl acetate	5000 ug/mL
						(Purchased Reagent)	Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Methanol 1L_00038	04/10/22		JT baker, Lot 0000230446			(Purchased Reagent)	Methanol	100 %
.VOAR2CEVE_00022	03/31/23		Restek, Lot A0158872			(Purchased Reagent)	2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcrolein_00063	12/31/21		Restek, Lot A0161364			(Purchased Reagent)	Acrolein	20000 ug/mL
.VOARADDCOM_00026	05/31/21		Restek, Lot A0154734			(Purchased Reagent)	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VOARGAS__00024	03/31/23		Restek, Lot A0159085			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOARKETON__00026	12/31/22		Restek, Lot A0156095			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARMegMix__00035	06/30/21		Restek, Lot A0143774			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
trans-1,4-Dichloro-2-butene	2500 ug/mL							
Trichloroethene	2500 ug/mL							
Xylenes, Total	5000 ug/mL							
.VOARPOLARAD__00019	01/31/21		Restek, Lot A0144915		(Purchased Reagent)	Acetonitrile	25000 ug/mL	
						Isopropyl ether	2500 ug/mL	
						Propionitrile	25000 ug/mL	
						tert-amyl alcohol TIC	25000 ug/mL	
						Tert-amyl methyl ether	2500 ug/mL	



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
.VOARVA_00056	10/31/21		Restek, Lot A0160321			(Purchased Reagent)	Tert-butyl ethyl ether	2500 ug/mL					
							Vinyl acetate	5000 ug/mL					
VOAMasterMix_00061	01/23/21	10/07/20	MeOH, Lot 230446	50 mL	8260 L2/S7_00018	1000 uL	Ethyl acetate	100 ug/mL					
							Ethyl acrylate	50 ug/mL					
							Methyl methacrylate	100 ug/mL					
										Methanol 1L 00038	40.75 mL	Methanol	815000 ug/mL
										VOAR2CEVE_00022	1000 uL	2-Chloroethyl vinyl ether	50 ug/mL
										VOARAcrolein_00063	750 uL	Acrolein	300 ug/mL
										VOARADDCOM_00026	1000 uL	1,2,3-Trimethylbenzene	50 ug/mL
												1,3,5-Trichlorobenzene	50 ug/mL
												1-Chlorohexane	50 ug/mL
												2-Chloro-1,3-butadiene	50 ug/mL
												2-Nitropropane	100 ug/mL
												Benzyl chloride	50 ug/mL
												Isooctane	50 ug/mL
												Isopropyl alcohol	500 ug/mL
												Methacrylonitrile	500 ug/mL
												n-Butanol	1250 ug/mL
										VOARGAS_00024	1000 uL	Bromomethane	50 ug/mL
												Butadiene	50 ug/mL
												Chloroethane	50 ug/mL
												Chloromethane	50 ug/mL
												Dichlorodifluoromethane	50 ug/mL
												Dichlorofluoromethane	50 ug/mL
												Trichlorofluoromethane	50 ug/mL
										VOARKETON_00026	1000 uL	Vinyl chloride	50 ug/mL
												2-Butanone (MEK)	250 ug/mL
												2-Hexanone	250 ug/mL
												4-Methyl-2-pentanone (MIBK)	250 ug/mL
										VOARMegMix_00035	1000 uL	Acetone	250 ug/mL
												1,1,1,2-Tetrachloroethane	50 ug/mL
												1,1,1-Trichloroethane	50 ug/mL
												1,1,2,2-Tetrachloroethane	50 ug/mL
												1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
												1,1,2-Trichloroethane	50 ug/mL
					1,1-Dichloroethane	50 ug/mL							
					1,1-Dichloroethene	50 ug/mL							
					1,1-Dichloropropene	50 ug/mL							
					1,2,3-Trichlorobenzene	50 ug/mL							
					1,2,3-Trichloropropane	50 ug/mL							
					1,2,4-Trichlorobenzene	50 ug/mL							
					1,2,4-Trimethylbenzene	50 ug/mL							
					1,2-Dibromo-3-Chloropropane	50 ug/mL							
					1,2-Dichlorobenzene	50 ug/mL							
					1,2-Dichloroethane	50 ug/mL							
					1,2-Dichloropropane	50 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VOARPOLARAD_00019	1250 uL	Acetonitrile	625 ug/mL
							Isopropyl ether	62.5 ug/mL
							Propionitrile	625 ug/mL
							tert-amyl alcohol TIC	625 ug/mL
							Tert-amyl methyl ether	62.5 ug/mL
							Tert-butyl ethyl ether	62.5 ug/mL
					VOARVA_00056	1250 uL	Vinyl acetate	125 ug/mL
.8260 L2/S7_00018	06/30/21		Restek, Lot A0156071			(Purchased Reagent)	Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Methanol 1L_00038	04/10/22		JT baker, Lot 0000230446			(Purchased Reagent)	Methanol	100 %
.VOAR2CEVE_00022	03/31/23		Restek, Lot A0158872			(Purchased Reagent)	2-Chloroethyl vinyl ether	2500 ug/mL
.VOARAcrolein_00063	12/31/21		Restek, Lot A0161364			(Purchased Reagent)	Acrolein	20000 ug/mL
.VOARADDCOM_00026	05/31/21		Restek, Lot A0154734			(Purchased Reagent)	1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.VOARGAS_00024	03/31/23		Restek, Lot A0159085			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOARKETON_00026	12/31/22		Restek, Lot A0156095			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.VOARMegMix_00035	06/30/21		Restek, Lot A0143774			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropene	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropene	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropene	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
.VOARPOLARAD__00019	01/31/21		Restek, Lot A0144915			(Purchased Reagent)	Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							tert-amyl alcohol TIC	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.VOARVA 00056	10/31/21		Restek, Lot A0160321			(Purchased Reagent)	Vinyl acetate	5000 ug/mL
<b>VOAMasterSEC_00052</b>	11/20/20	07/28/20	MeOH, Lot 230446	50 mL	VOASGAS2__00024	1000 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
					VOASMegMix2__00023	1000 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
.VOASGAS2__00024	03/31/22		Restek, Lot A0147004			(Purchased Reagent)	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VOASMegMix2__00023	06/30/21		Restek, Lot A0144202			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
<b>VoaSand_00069</b>	04/07/25		JT Baker, Lot 0000243821			(Purchased Reagent)	Sieve Size #230	2500 g



Reagent

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**#2Diesel\_Accu\_00014**

# CERTIFICATE OF ANALYSIS



2302821  
ID: #2Diesel\_Accu\_00014  
Exp: 10/12/28 Prpt: Z1R  
50mg/ml #2 Dx Stock IC St

**Catalog No:** DRO-AK-102-LCS-10X-R1

**Description:** #2 Diesel Fuel

**Lot:** 218101242

**Solvent:** Acetone

**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Oct 12, 2018

**Expiration:** Oct 12, 2028

**Sample Size:** 1 mL

**Components:** 1

**Storage Condition:** Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO 17034 Scope of Accreditation: Yes



Signal Word: Danger

Component	CAS #	Purity % (GC/FID)	Prepared Concentration <sup>1</sup> (mg/mL)	Certified Analyte Concentration <sup>2</sup> (mg/mL)
#2 Diesel Fuel	68334-30-5	Tech Mix	50.03	50.03

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>1</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>2</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information.

Certified By:



Larry Decker, Organic QC Manager

**1. Quality Standards:**

ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774



- 2. Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11.
- 3. Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.
- 4. Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.
- 5. Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label
- 6. Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula:  $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$  This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.
- 7. Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

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**8260 L2/S7\_00018**



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 570809 Lot No.: A0156071  
 Description : 8260 List 2 / Std #7  
8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul  
 Container Size : 2 mL Pkg Amt: > 1 mL  
 Expiration Date : June 30, 2021 Storage: 0°C or colder

  
 2593160  
 ID: 8260 L2/S7\_00018  
 Exp: 06/30/21 Prod: DCV  
 8260 List 2 / Stds #7

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Ethyl acetate	5,015.6 µg/mL (Lot SHBL1336)	+/-	29.3674	µg/mL	Gravimetric
	CAS # 141-78-6		+/-	302.6333	µg/mL	Unstressed
	Purity 99%		+/-	303.3517	µg/mL	Stressed
2	Ethyl acrylate	2,508.8 µg/mL (Lot 10129902)	+/-	14.7230	µg/mL	Gravimetric
	CAS # 140-88-5		+/-	151.3803	µg/mL	Unstressed
	Purity 99%		+/-	151.7396	µg/mL	Stressed
3	Methyl methacrylate	5,015.2 µg/mL (Lot MKCG6589)	+/-	29.3651	µg/mL	Gravimetric
	CAS # 80-62-6		+/-	302.6092	µg/mL	Unstressed
	Purity 99%		+/-	303.3275	µg/mL	Stressed
4	Butyl acetate	2,512.0 µg/mL (Lot SHBK5137)	+/-	14.7418	µg/mL	Gravimetric
	CAS # 123-86-4		+/-	151.5733	µg/mL	Unstressed
	Purity 99%		+/-	151.9331	µg/mL	Stressed

Solvent: P&T Methanol  
 CAS # 67-56-1  
 Purity 99%

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

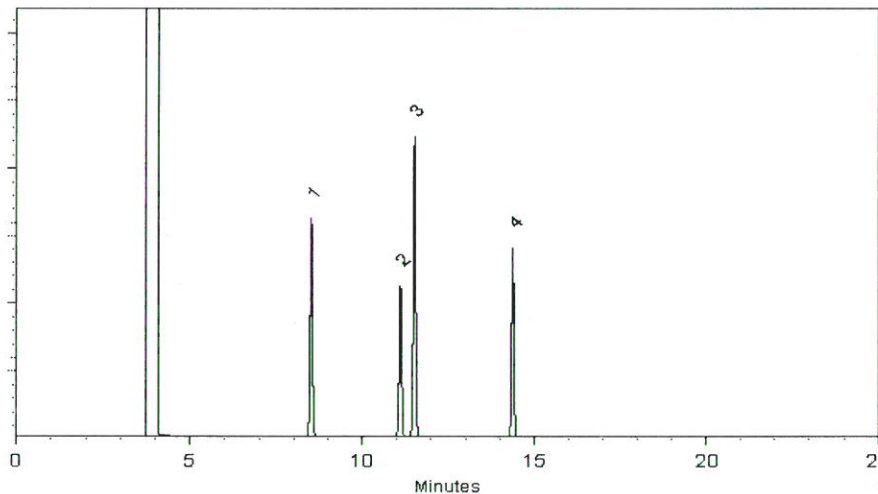
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Cydnei L. Crust*  
Cydnei L. Crust - Mix Technician

**Date Mixed:** 22-Dec-2019      **Balance:** B442140311

*Tyler Brown*  
Tyler Brown - Operations Tech-ARM QC

**Date Passed:** 26-Dec-2019

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**BFBNeat\_00012**

### Preliminary Report

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20201001-73177.b\100120\_004.D

Injection Date: 01-Oct-2020 14:15:30

Instrument ID: TAC020

Lims ID: MB 580-339624/1-A

Client ID:

Operator ID: jkm

ALS Bottle#: 4

Worklist Smp#: 9

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

Method: NWHCID-F\_TAC020

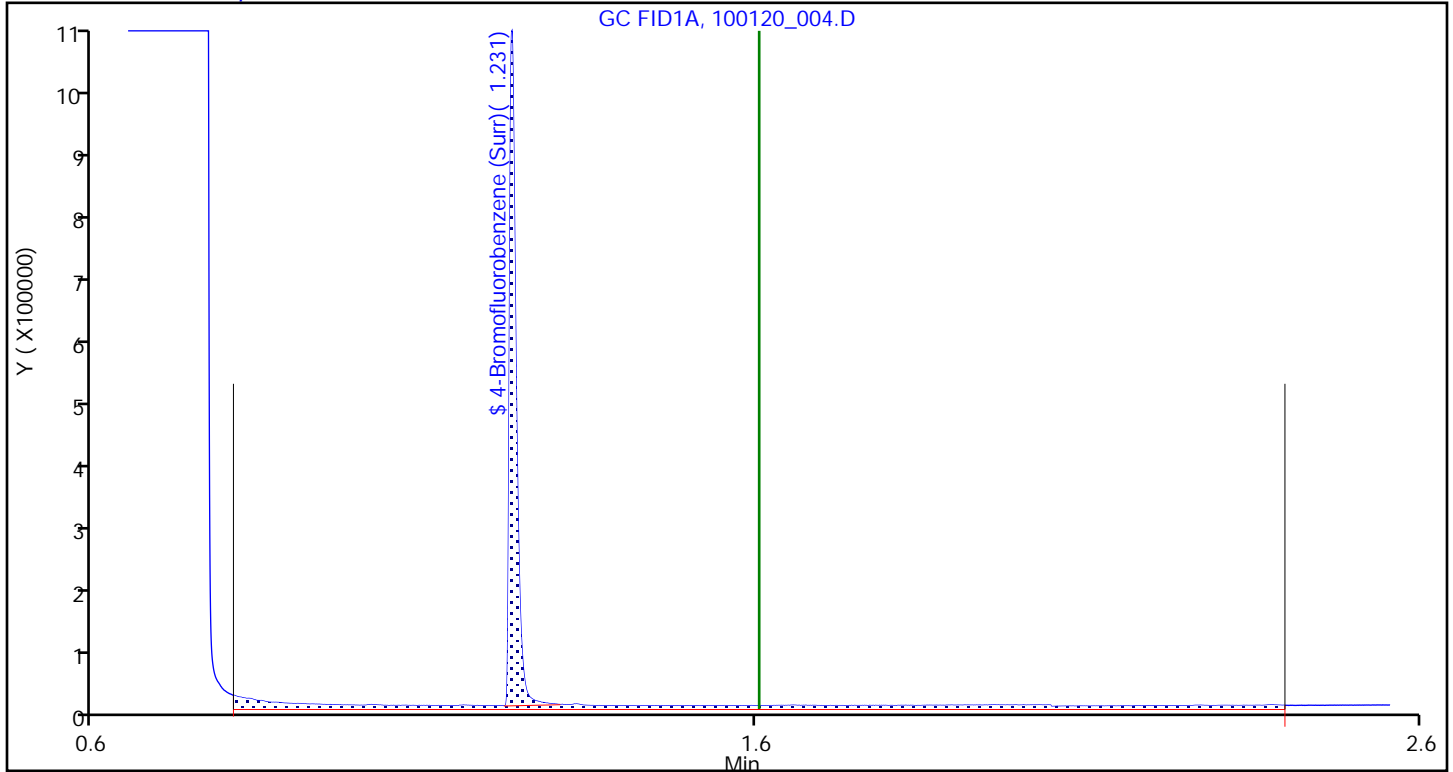
Limit Group: NWTPH\_HCID

Column:

Detector

GC FID2B

### A 6 Gasoline, CAS: STL00228





## Preliminary Report

Eurofins TestAmerica, Seattle

MB, Method Blank Report

Sample Path: \\chromfs\Seattle\ChromData\TAC020\20201001-73177.b\100120\_004.D

Lims ID: MB 580-339624/1-A

Inj. Date: 01-Oct-2020 14:15:30

Worklist ID: 580-0073177-009

Instrument: TAC020

Method: NWHCID-F\_TAC020

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C_14c
\$ 1 4-Bromofluorobenzene (S)	10.2	9.56	93.8	50-150
\$ 2 o-Terphenyl	10.3	9.07	88.3	50-150
\$ 10 n-Triacontane-d62	10.2	8.81	86.2	50-150

Samples for Limit Group: 1, Lims Prep Method: 3510C\_14d

580-97837-A-1-A

580-97837-A-2-A

Reagent

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**MotorOil\_Accu\_00016**

# CERTIFICATE OF ANALYSIS

**Catalog No:** RRO-AK-103-RCS-10X  
**Description:** Residuals Composite Mix  
**Lot:** 218071289

**Solvent:** Dichloromethane  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Jul 19, 2018  
**Expiration:** Jul 19, 2028  
**Sample Size:** 1 mL  
**Components:** 3  
**Storage Condition:** Ambient (>5 °C)



### Certified Reference Material



Component	CAS #	Purity %	Prepared Concentration <sup>1</sup>	Certified Analyte Concentration <sup>2</sup>
		(GC/FID)	(mg/mL)	(mg/mL)
SAE 30W Motor Oil	N/A	Tech Mix	16.61	16.61
SAE 40W Motor Oil	N/A	Tech Mix	16.70	16.70
SAE 50W Motor Oil	N/A	Tech Mix	16.70	16.70

A product with a suffix (-1A, -2B, etc or -01, -02, etc) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>1</sup> All weights are traceable through NIST, Test No. 822-275872-11

<sup>2</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information.

Certified By:



Larry Decker, Organic QC Manager

Reagent

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**oterpheny1\_00011**

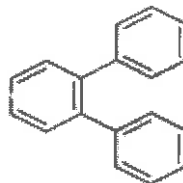
3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:  
o-Terphenyl - 99%Product Number: T2800  
Batch Number: MKBV3687V  
Brand: ALDRICH  
CAS Number: 84-15-1  
MDL Number: MFCD00003055  
Formula: C18H14  
Formula Weight: 230.30 g/mol  
Quality Release Date: 16 APR 2015

2114527

ID: oterphenyl\_00011

Exp:03/02/23 Prod:ADB Opn:03/19/16  
o-Terphenyl Standard (nea)

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Conforms to Requirements	Powder
Crystalline Powder and/or Chunks		
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 98.5 %	100.0 %

Ali Ataei, Manager  
Quality Control  
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Reagent

---

**TPH Spike\_RZ\_00105**



110 Benner Circle  
 Bellefonte, PA 16823-8812  
 Tel: (800)356-1688  
 Fax: (814)353-1309

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# CERTIFIED REFERENCE MATERIAL

## Certificate of Composition



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 565547 **Lot No.:** A0160525  
**Description :** Custom Fuels Composite  
Custom Fuels Composite 50,000µg/mL, Methylene Chloride, 25mL/ampul  
**Container Size :** 50 mL **Pkg Amt:** > 25 mL  
**Expiration Date :** June 30, 2027 **Storage:** 25°C nominal

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Diesel Fuel #2 Composite CAS # 68334-30-5.A (Lot A0156399) Purity ----%	50,149.0 µg/mL	+/- 291.555366 µg/mL Gravimetric
			+/- 1,493.093365 µg/mL Unstressed
			+/- 1,592.435411 µg/mL Stressed
2	Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F (Lot A0126386) Purity ----%	50,224.5 µg/mL	+/- 291.994306 µg/mL Gravimetric
			+/- 1,495.341237 µg/mL Unstressed
			+/- 1,594.832844 µg/mL Stressed

**Solvent:** Methylene chloride  
 CAS # 75-09-2  
 Purity 99%

Reagent

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**TPH Spike\_RZ\_00106**





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# CERTIFIED REFERENCE MATERIAL

## Certificate of Composition



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 565547 **Lot No.:** A0160525  
**Description :** Custom Fuels Composite  
Custom Fuels Composite 50,000µg/mL, Methylene Chloride, 25mL/ampul  
**Container Size :** 50 mL **Pkg Amt:** > 25 mL  
**Expiration Date :** June 30, 2027 **Storage:** 25°C nominal

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Diesel Fuel #2 Composite CAS # 68334-30-5.A (Lot A0156399) Purity ----%	50,149.0 µg/mL	+/- 291.555366 µg/mL Gravimetric
			+/- 1,493.093365 µg/mL Unstressed
			+/- 1,592.435411 µg/mL Stressed
2	Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F (Lot A0126386) Purity ----%	50,224.5 µg/mL	+/- 291.994306 µg/mL Gravimetric
			+/- 1,495.341237 µg/mL Unstressed
			+/- 1,594.832844 µg/mL Stressed

**Solvent:** Methylene chloride  
 CAS # 75-09-2  
 Purity 99%

Reagent

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**TPH\_SURR\_00051**

### Preliminary Report

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20201001-73177.b\100120\_004.D

Injection Date: 01-Oct-2020 14:15:30

Instrument ID: TAC020

Operator ID: jkm

Lims ID: MB 580-339624/1-A

Worklist Smp#: 9

Client ID:

Injection Vol: 2.0 ul

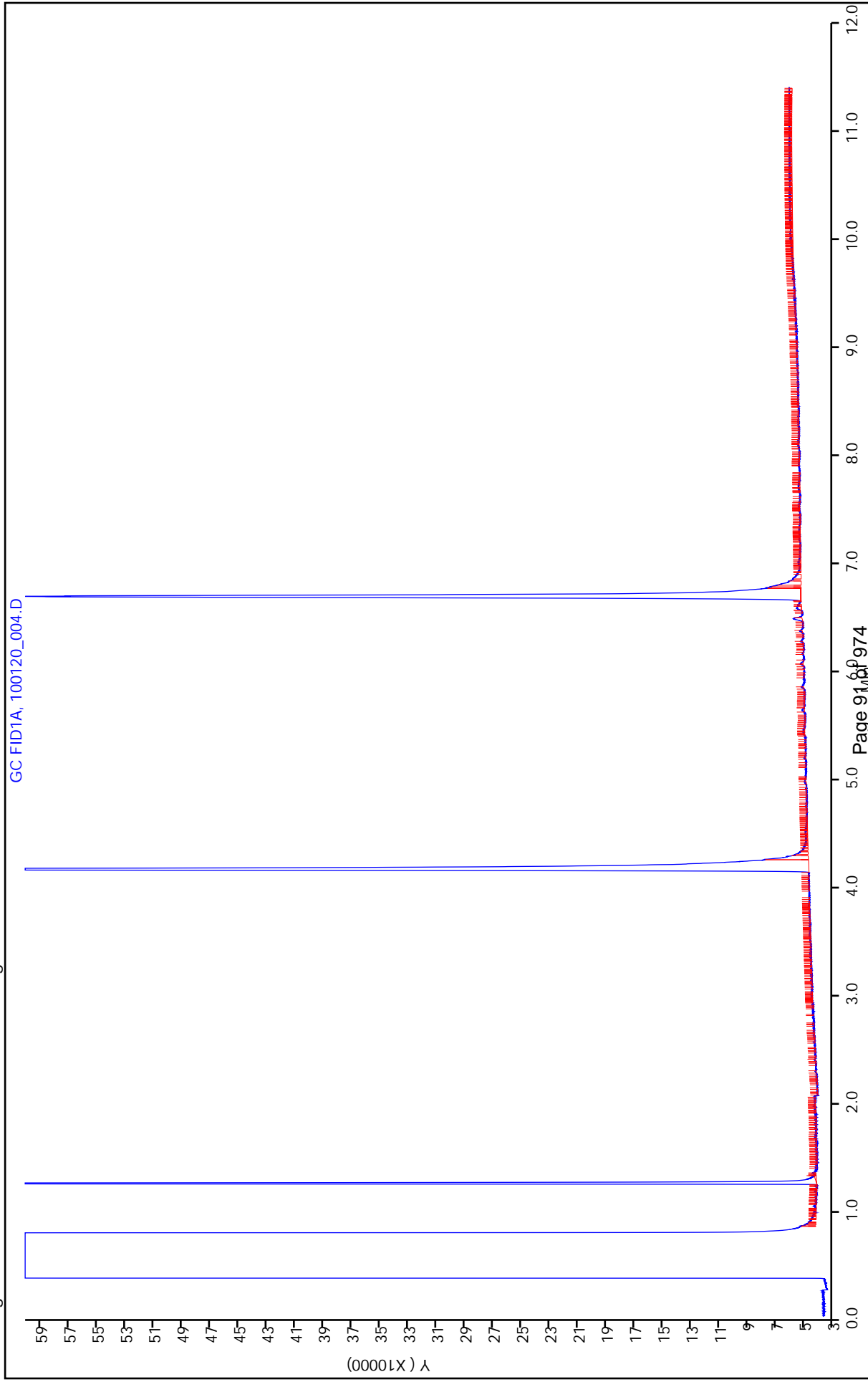
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: NWHCID-F\_TAC020

Limit Group: NWTPH\_HCID

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 3



## Preliminary Report

Eurofins TestAmerica, Seattle

MB, Method Blank Report

Sample Path: \\chromfs\Seattle\ChromData\TAC020\20201001-73177.b\100120\_004.D

Lims ID: MB 580-339624/1-A

Inj. Date: 01-Oct-2020 14:15:30

Worklist ID: 580-0073177-009

Instrument: TAC020

Method: NWHCID-F\_TAC020

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C_14c
\$ 1 4-Bromofluorobenzene (S)	10.2	9.56	93.8	50-150
\$ 2 o-Terphenyl	10.3	9.07	88.3	50-150
\$ 10 n-Triacontane-d62	10.2	8.81	86.2	50-150

Samples for Limit Group: 1, Lims Prep Method: 3510C\_14d

580-97837-A-1-A

580-97837-A-2-A

Reagent

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**TPH\_SURR\_00053**

### Preliminary Report

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20201001-73177.b\100120\_004.D

Injection Date: 01-Oct-2020 14:15:30

Instrument ID: TAC020

Operator ID: jkm

Lims ID: MB 580-339624/1-A

Worklist Smp#: 9

Client ID:

Injection Vol: 2.0 ul

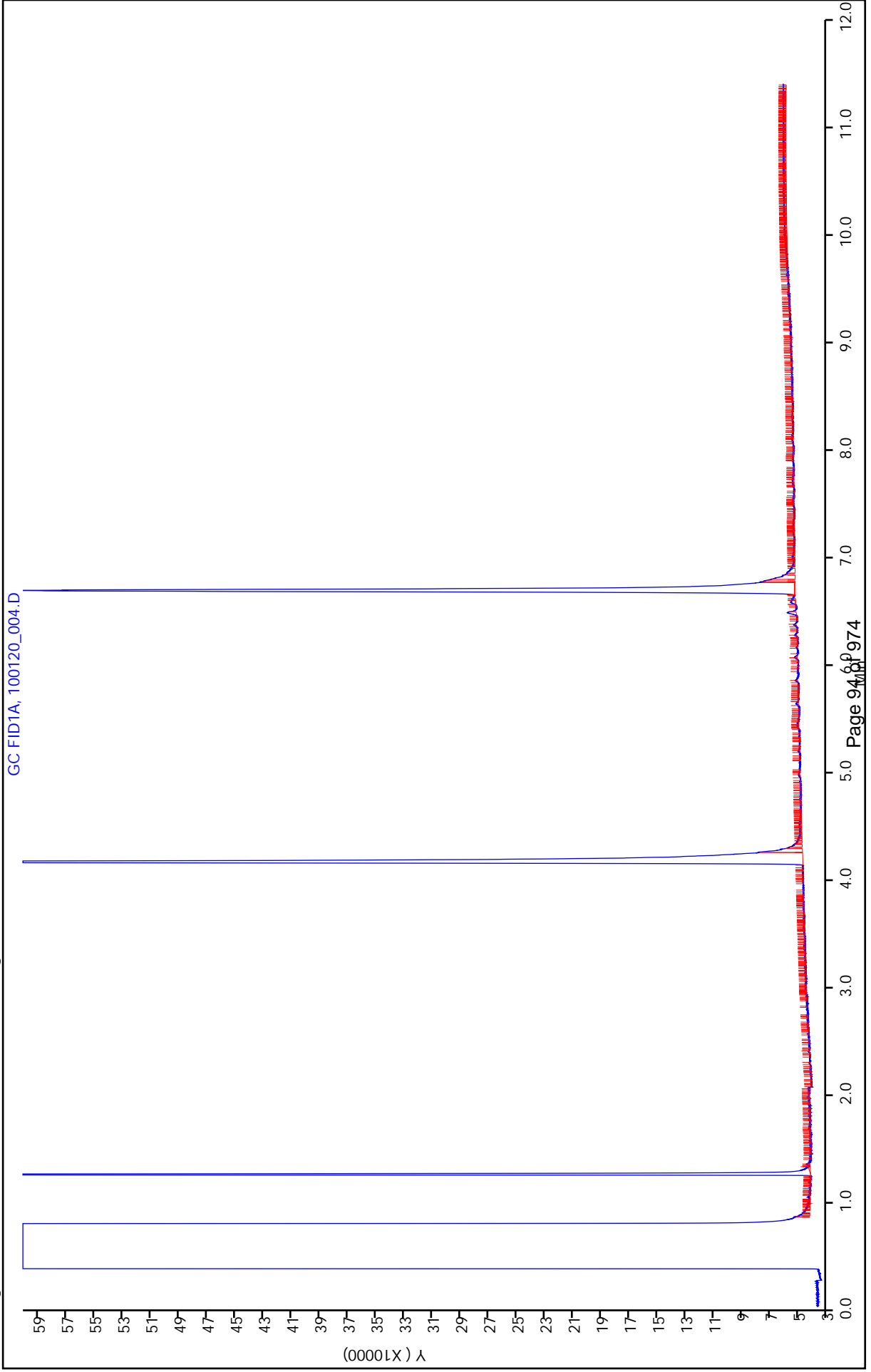
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: NWHCID-F\_TAC020

Limit Group: NWTPH\_HCID

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 3



## Preliminary Report

Eurofins TestAmerica, Seattle

MB, Method Blank Report

Sample Path: \\chromfs\Seattle\ChromData\TAC020\20201001-73177.b\100120\_004.D

Lims ID: MB 580-339624/1-A

Inj. Date: 01-Oct-2020 14:15:30

Worklist ID: 580-0073177-009

Instrument: TAC020

Method: NWHCID-F\_TAC020

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3510C_14c
\$ 1 4-Bromofluorobenzene (S)	10.2	9.56	93.8	50-150
\$ 2 o-Terphenyl	10.3	9.07	88.3	50-150
\$ 10 n-Triacontane-d62	10.2	8.81	86.2	50-150

Samples for Limit Group: 1, Lims Prep Method: 3510C\_14d

580-97837-A-1-A

580-97837-A-2-A

Reagent

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**VOAR2CEVE\_\_00021**





# CERTIFIED REFERENCE MATERIAL

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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 569723 **Lot No.:** A0146250

**Description :** 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2022 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Chloroethyl vinyl ether CAS # 110-75-8 Purity 99% (Lot MKBS6526V)	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 53.5253 µg/mL +/- 55.0814 µg/mL
			Gravimetric Unstressed Stressed

**Solvent:** P&T Methanol  
CAS # 67-56-1  
Purity 99%

#### Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

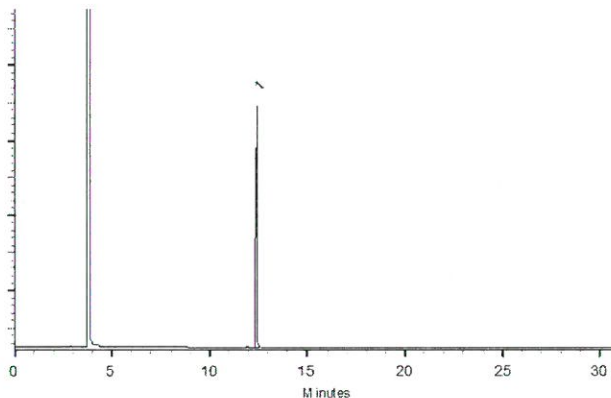
200°C

**Det. Temp:**

250°C

**Det. Type:**

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 20-Feb-2019

Balance: B251644995

  
Justine Albertson - Operations Tech-ARM GC

Date Passed: 22-Feb-2019

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

---

**VOAR2CEVE\_\_00022**



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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 569723 **Lot No.:** A0158872

**Description :** 8260 List 1 / Std #4 2-CEVE (2015)  
8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2023 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Chloroethyl vinyl ether CAS # 110-75-8 Purity 99%	2,500.5 µg/mL (Lot MKBS6526V)	+/- 14.5381 µg/mL +/- 53.5360 µg/mL +/- 55.0924 µg/mL
			Gravimetric Unstressed Stressed

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

#### Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

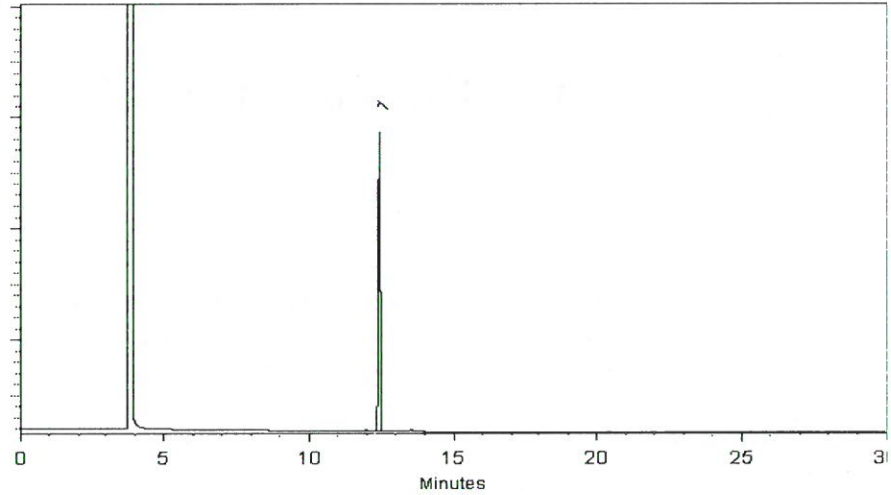
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jessica McClenahan - Operations Technician I

**Date Mixed:** 16-Mar-2020

**Balance:** B707717271

Tyler Brown - Operations Tech-ARM QC

**Date Passed:** 18-Mar-2020

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARAcrolein\_00061**

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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 568720 Lot No.: A0156861  
 Description : 8260 List 1/Std #5 Acrolein High  
8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul  
 Container Size : 2 mL Pkg Amt: > 1 mL  
 Expiration Date : July 31, 2021 Storage: 0°C or colder  
 Handling: This product is photosensitive.

  
 2622724  
 ID: VOARAcrolein\_00061  
 Exp 07/31/21 Prpd ASJ Opn 05/22/20  
 8260 List 1 Std/#5 Acrolein

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acrolein CAS # 107-02-8 Purity 99% (Lot D0012019-1219)	19,752.0 µg/mL	+/- 115.6523 µg/mL Gravimetric +/- 394.5922 µg/mL Unstressed +/- 885.2572 µg/mL Stressed

Solvent: Water  
 CAS # 7732-18-5  
 Purity 99%

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

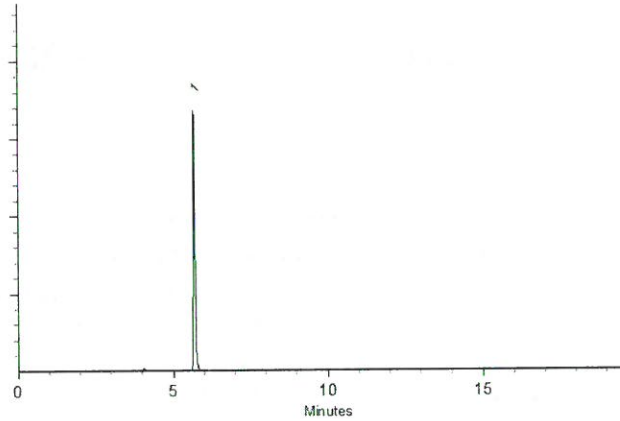
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Cathleen Soltis*

Cathleen Soltis - Mix Technician

**Date Mixed:** 17-Jan-2020

**Balance:** B251644995

*Justine Alberson*  
Justine Alberson - Operations Tech-ARM QC

**Date Passed:** 21-Jan-2020

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



Reagent

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**VOARADDCOM\_\_00026**



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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 570808 Lot No.: A0154734

Description : 8260 List 2 / Std #6  
8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : May 31, 2021 Storage: 0°C or colder



2593150  
ID: VOARADDCOM\_00026  
Exp: 05/31/21 Prpd: DCV  
8260 List 2/ Std #6

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2-Propanol (isopropanol)	25,135.0 µg/mL	+/-	147.1710	µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBH7211)		+/-	1,243.4963	µg/mL	Unstressed
	Purity 99%		+/-	1,274.4109	µg/mL	Stressed
2	Chloroprene (2-chloro-1,3-butadiene)	2,523.5 µg/mL	+/-	14.8093	µg/mL	Gravimetric
	CAS # 126-99-8 (Lot 190814JLM)		+/-	124.8483	µg/mL	Unstressed
	Purity 99%		+/-	127.9520	µg/mL	Stressed
3	Methacrylonitrile	25,164.0 µg/mL	+/-	147.3408	µg/mL	Gravimetric
	CAS # 126-98-7 (Lot 1012019)		+/-	1,244.9310	µg/mL	Unstressed
	Purity 99%		+/-	1,275.8813	µg/mL	Stressed
4	2,2,4-Trimethylpentane (isooctane)	2,512.0 µg/mL	+/-	14.7418	µg/mL	Gravimetric
	CAS # 540-84-1 (Lot SHBD2922V)		+/-	124.2794	µg/mL	Unstressed
	Purity 99%		+/-	127.3689	µg/mL	Stressed
5	1-Butanol	63,024.5 µg/mL	+/-	369.0033	µg/mL	Gravimetric
	CAS # 71-36-3 (Lot SHBK4786)		+/-	3,117.9899	µg/mL	Unstressed
	Purity 99%		+/-	3,195.5065	µg/mL	Stressed
6	2-Nitropropane	5,009.8 µg/mL	+/-	29.3332	µg/mL	Gravimetric
	CAS # 79-46-9 (Lot BCBL0537V)		+/-	247.8464	µg/mL	Unstressed
	Purity 98%		+/-	254.0081	µg/mL	Stressed
7	1-Chlorohexane	2,516.6 µg/mL	+/-	14.7691	µg/mL	Gravimetric
	CAS # 544-10-5 (Lot BCBS3368V)		+/-	124.5090	µg/mL	Unstressed
	Purity 98%		+/-	127.6042	µg/mL	Stressed

8	1,2,3-Trimethylbenzene CAS # 526-73-8 Purity 98%	(Lot 877605-12)	2,510.3 µg/mL	+/- 14.7317 +/- 124.1938 +/- 127.2812	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride CAS # 100-44-7 Purity 99%	(Lot SHBH2102V)	2,516.0 µg/mL	+/- 14.7653 +/- 124.4773 +/- 127.5717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene CAS # 108-70-3 Purity 99%	(Lot 11319AS)	2,523.0 µg/mL	+/- 14.8064 +/- 124.8236 +/- 127.9267	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
<b>Solvent:</b> P&T Methanol						
CAS # 67-56-1						
Purity 99%						

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

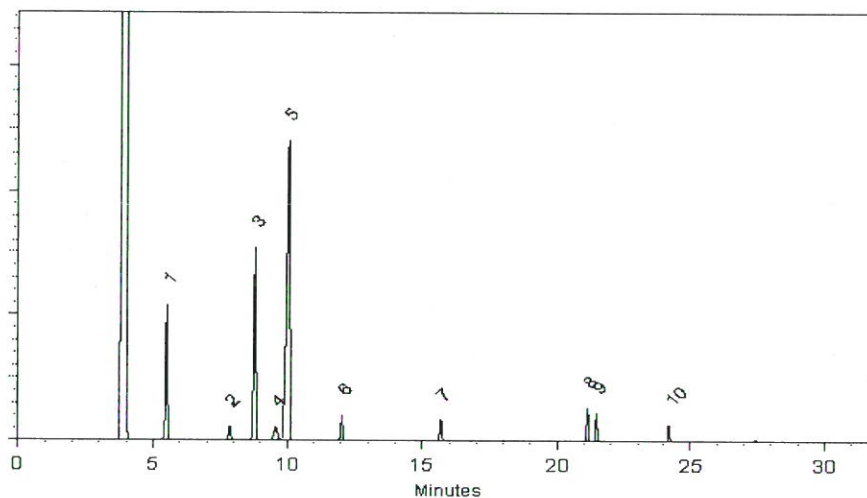
200°C

**Det. Temp:**

250°C

**Det. Type:**

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Tom Suckar - Mix Technician

Date Mixed: 05-Nov-2019 Balance: B707717271

  
Fang-Yun Li - QC Analyst

Date Passed: 07-Nov-2019

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARGAS\_\_00024**



# CERTIFIED REFERENCE MATERIAL

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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 569722 **Lot No.:** A0159085

**Description :** 8260 List 1 / Std #3 Gases (2015)  
8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2023 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dichlorodifluoromethane (CFC-12)	2,502.3 µg/mL	+/-	16.4178	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/-	140.5076	µg/mL	Unstressed
	Purity 99%		+/-	143.7858	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,500.6 µg/mL	+/-	16.3299	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/-	140.4038	µg/mL	Unstressed
	Purity 99%		+/-	143.6799	µg/mL	Stressed
3	Vinyl chloride	2,500.2 µg/mL	+/-	17.2154	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/-	140.4890	µg/mL	Unstressed
	Purity 99%		+/-	143.7623	µg/mL	Stressed
4	1,3-Butadiene	2,500.7 µg/mL	+/-	17.6652	µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBK2299)		+/-	140.5681	µg/mL	Unstressed
	Purity 99%		+/-	143.8406	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,501.2 µg/mL	+/-	16.4034	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/-	140.4450	µg/mL	Unstressed
	Purity 99%		+/-	143.7217	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,500.3 µg/mL	+/-	17.7279	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/-	140.5555	µg/mL	Unstressed
	Purity 99%		+/-	143.8274	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 8582700)		+/-	140.1725	µg/mL	Unstressed
	Purity 99%		+/-	143.4524	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)	2,501.4 µg/mL	+/- 16.0800	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot MKCJ8658)		+/- 140.4203	µg/mL	Unstressed
	Purity 99%		+/- 143.6982	µg/mL	Stressed

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

**Tech Tips:**

Raw material may contain trace amounts of tert-Butanol.

**Column:**  
60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

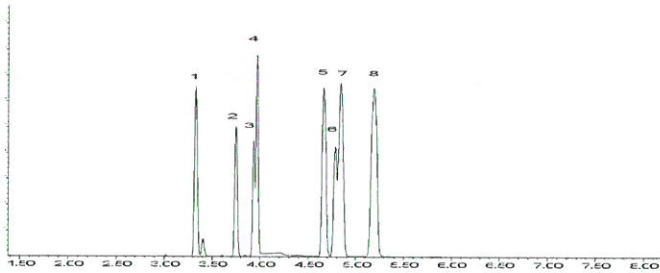
**Carrier Gas:**  
helium-constant pressure 30 psi

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Tom Suckar*  
Tom Suckar - Mix Technician

**Date Mixed:** 23-Mar-2020      **Balance:** B707717271

*Jennifer A Pollino*  
Jennifer Pollino - Operations Tech-ARM QC

**Date Passed:** 26-Mar-2020

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARKETON\_\_00026**



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 569721 **Lot No.:** A0156095

**Description :** 8260 List 1/ Std #2 Ketones (2015)  
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2022 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acetone	12,523.3 µg/mL (Lot MKCK2598)	+/-	72.8113	µg/mL	Gravimetric
	CAS # 67-64-1		+/-	755.5832	µg/mL	Unstressed
	Purity 99%		+/-	757.3770	µg/mL	Stressed
2	2-Butanone (MEK)	12,532.3 µg/mL (Lot SHBK5945)	+/-	72.8636	µg/mL	Gravimetric
	CAS # 78-93-3		+/-	756.1262	µg/mL	Unstressed
	Purity 99%		+/-	757.9213	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,531.8 µg/mL (Lot SHBK5017)	+/-	72.8607	µg/mL	Gravimetric
	CAS # 108-10-1		+/-	756.0960	µg/mL	Unstressed
	Purity 99%		+/-	757.8911	µg/mL	Stressed
4	2-Hexanone	12,531.5 µg/mL (Lot MKCG5905)	+/-	72.8592	µg/mL	Gravimetric
	CAS # 591-78-6		+/-	756.0809	µg/mL	Unstressed
	Purity 99%		+/-	757.8760	µg/mL	Stressed

**Solvent:** P&T Methanol/Water (90:10)  
**CAS #** 67-56-1/7732-18-5  
**Purity** 99%



**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

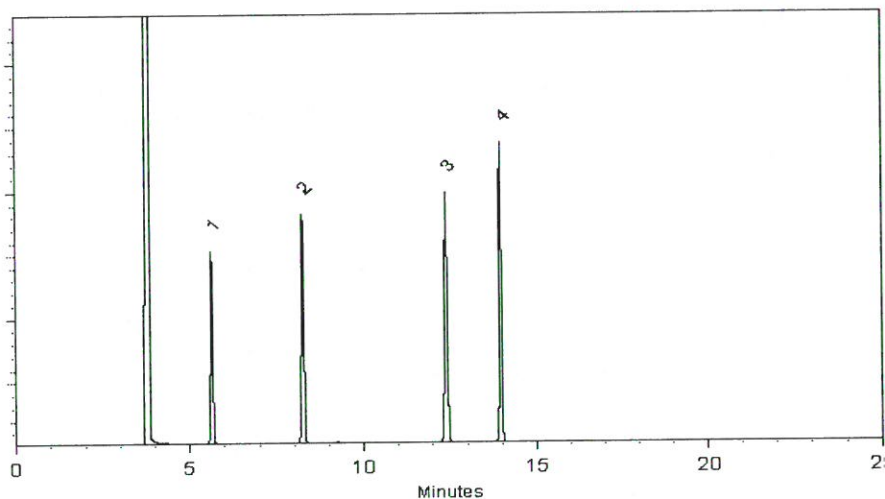
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Miranda Kline*  
Miranda Kline - Operations Technician I

**Date Mixed:** 23-Dec-2019      **Balance:** B251644995

*Tyler Brown*  
Tyler Brown - Operations Tech-ARM QC

**Date Passed:** 26-Dec-2019

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARMegMix\_\_00034**



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 571992 Lot No.: A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : June 30, 2021 Storage: 0°C or colder

2593111  
ID: VOARMegMix\_00034  
Exp 06/30/21 Pp# Dcv  
8260 List 1/ Std #1 MegaM

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Diethyl ether (ethyl ether) CAS # 60-29-7 (Lot SHBJ5713) Purity 99%	2,500.6 µg/mL	+/- 14.5388	µg/mL	Gravimetric	
			+/- 150.8738	µg/mL	Unstressed	
			+/- 151.2320	µg/mL	Stressed	
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1 (Lot 00009482) Purity 99%	2,501.6 µg/mL	+/- 14.5447	µg/mL	Gravimetric	
			+/- 150.9341	µg/mL	Unstressed	
			+/- 151.2925	µg/mL	Stressed	
3	1,1-dichloroethene CAS # 75-35-4 (Lot SHBG8609V) Purity 99%	2,501.9 µg/mL	+/- 14.5461	µg/mL	Gravimetric	
			+/- 150.9492	µg/mL	Unstressed	
			+/- 151.3076	µg/mL	Stressed	
4	tert-Butanol (TBA) CAS # 75-65-0 (Lot SHBJ9404) Purity 99%	25,008.1 µg/mL	+/- 145.3918	µg/mL	Gravimetric	
			+/- 1,508.8503	µg/mL	Unstressed	
			+/- 1,512.4325	µg/mL	Stressed	
5	Methyl acetate CAS # 79-20-9 (Lot SHBG4345V) Purity 99%	5,000.8 µg/mL	+/- 29.0748	µg/mL	Gravimetric	
			+/- 301.7174	µg/mL	Unstressed	
			+/- 302.4337	µg/mL	Stressed	
6	Iodomethane (methyl iodide) CAS # 74-88-4 (Lot SHBH4362V) Purity 99%	2,500.6 µg/mL	+/- 14.5388	µg/mL	Gravimetric	
			+/- 150.8738	µg/mL	Unstressed	
			+/- 151.2320	µg/mL	Stressed	
7	Allyl chloride ( 3-chloropropene ) CAS # 107-05-1 (Lot WXBB7852V) Purity 99%	2,502.0 µg/mL	+/- 14.5468	µg/mL	Gravimetric	
			+/- 150.9567	µg/mL	Unstressed	
			+/- 151.3151	µg/mL	Stressed	

8	Methylene chloride (dichloromethane)		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b> 75-09-2	(Lot SHBK5095)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2395	µg/mL	Stressed
9	Carbon disulfide		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	<b>CAS #</b> 75-15-0	(Lot U22D706)			+/-	150.9040	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2622	µg/mL	Stressed
10	Acrylonitrile		25,010.4	µg/mL	+/-	145.4049	µg/mL	Gravimetric
	<b>CAS #</b> 107-13-1	(Lot R15D047)			+/-	1,508.9860	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	1,512.5686	µg/mL	Stressed
11	Methyl-tert-butyl ether ( MTBE )		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	<b>CAS #</b> 1634-04-4	(Lot SHBH9526)			+/-	150.8512	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2093	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	<b>CAS #</b> 156-59-2	(Lot MKBX5945V)			+/-	150.9115	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2698	µg/mL	Stressed
13	n-Hexane (C6)		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b> 110-54-3	(Lot SHBH8106)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2395	µg/mL	Stressed
14	1,1-Dichloroethane		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	<b>CAS #</b> 75-34-3	(Lot 462600)			+/-	150.8587	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2169	µg/mL	Stressed
15	2,2-Dichloropropane		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	<b>CAS #</b> 594-20-7	(Lot BCBT5124)			+/-	150.8889	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2471	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	<b>CAS #</b> 156-60-5	(Lot MKBH9850V)			+/-	150.8512	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2093	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,500.9	µg/mL	+/-	363.3665	µg/mL	Gravimetric
	<b>CAS #</b> 78-83-1	(Lot SHBK0551)			+/-	3,770.9529	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	3,779.9058	µg/mL	Stressed
18	chloroform		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	<b>CAS #</b> 67-66-3	(Lot SHBJ9076)			+/-	150.8662	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2244	µg/mL	Stressed
19	Bromochloromethane		2,500.6	µg/mL	+/-	14.5387	µg/mL	Gravimetric
	<b>CAS #</b> 74-97-5	(Lot 00008541)			+/-	150.8718	µg/mL	Unstressed
	<b>Purity</b> 98%				+/-	151.2300	µg/mL	Stressed
20	Tetrahydrofuran		5,000.6	µg/mL	+/-	29.0741	µg/mL	Gravimetric
	<b>CAS #</b> 109-99-9	(Lot SHBJ6179)			+/-	301.7099	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	302.4262	µg/mL	Stressed
21	1,1,1-trichloroethane		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b> 71-55-6	(Lot B15W12061)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2395	µg/mL	Stressed
22	Cyclohexane		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	<b>CAS #</b> 110-82-7	(Lot MKCC9660)			+/-	150.8889	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2471	µg/mL	Stressed
23	1,1-Dichloropropene		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	<b>CAS #</b> 563-58-6	(Lot 180531JLM)			+/-	150.8738	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2320	µg/mL	Stressed

24	carbon tetrachloride <b>CAS #</b> 56-23-5 <b>Purity</b> 99%	(Lot SHBJ2110)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) <b>CAS #</b> 142-82-5 <b>Purity</b> 99%	(Lot SHBJ2424)	2,501.6	µg/mL	+/- +/- +/-	14.5447 150.9341 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane <b>CAS #</b> 107-06-2 <b>Purity</b> 99%	(Lot SHBJ0707)	2,501.3	µg/mL	+/- +/- +/-	14.5425 150.9115 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene <b>CAS #</b> 71-43-2 <b>Purity</b> 99%	(Lot SHBJ5344)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene <b>CAS #</b> 79-01-6 <b>Purity</b> 99%	(Lot SHBH1955V)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane <b>CAS #</b> 108-87-2 <b>Purity</b> 99%	(Lot SHBJ0457)	2,501.6	µg/mL	+/- +/- +/-	14.5447 150.9341 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane <b>CAS #</b> 78-87-5 <b>Purity</b> 99%	(Lot BCBR0882V)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane <b>CAS #</b> 123-91-1 <b>Purity</b> 99%	(Lot SHBJ7415)	50,001.1	µg/mL	+/- +/- +/-	290.6957 3,016.7880 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane <b>CAS #</b> 74-95-3 <b>Purity</b> 99%	(Lot 10201030)	2,502.0	µg/mL	+/- +/- +/-	14.5468 150.9567 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene <b>CAS #</b> 10061-01-5 <b>Purity</b> 99%	(Lot 25076)	2,501.4	µg/mL	+/- +/- +/-	14.5432 150.9190 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene <b>CAS #</b> 108-88-3 <b>Purity</b> 99%	(Lot SHBJ5659)	2,500.1	µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate <b>CAS #</b> 97-63-2 <b>Purity</b> 99%	(Lot 69796APV)	2,502.8	µg/mL	+/- +/- +/-	14.5512 151.0020 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene <b>CAS #</b> 10061-02-6 <b>Purity</b> 98%	(Lot C797620)	2,500.6	µg/mL	+/- +/- +/-	14.5387 150.8718 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane <b>CAS #</b> 79-00-5 <b>Purity</b> 99%	(Lot FGB01)	2,500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane <b>CAS #</b> 142-28-9 <b>Purity</b> 99%	(Lot BCBG2162V)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene <b>CAS #</b> 127-18-4 <b>Purity</b> 99%	(Lot SHBH9691)	2,501.0	µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed



40	dibromochloromethane <b>CAS #</b> 124-48-1 <b>Purity</b> 98%	(Lot MKCC0877)	2,502.4	µg/mL	+/-	14.5493	µg/mL	Gravimetric
					+/-	150.9827	µg/mL	Unstressed
					+/-	151.3411	µg/mL	Stressed
41	1,2-Dibromoethane (EDB) <b>CAS #</b> 106-93-4 <b>Purity</b> 99%	(Lot BCBH3877V)	2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
					+/-	150.8587	µg/mL	Unstressed
					+/-	151.2169	µg/mL	Stressed
42	Chlorobenzene <b>CAS #</b> 108-90-7 <b>Purity</b> 99%	(Lot SHBH4459V)	2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
					+/-	150.9040	µg/mL	Unstressed
					+/-	151.2622	µg/mL	Stressed
43	m-Xylene <b>CAS #</b> 108-38-3 <b>Purity</b> 99%	(Lot SHBJ2338)	1,251.5	µg/mL	+/-	7.2763	µg/mL	Gravimetric
					+/-	75.5085	µg/mL	Unstressed
					+/-	75.6878	µg/mL	Stressed
44	p-Xylene <b>CAS #</b> 106-42-3 <b>Purity</b> 99%	(Lot SHBJ0052)	1,250.1	µg/mL	+/-	7.2683	µg/mL	Gravimetric
					+/-	75.4256	µg/mL	Unstressed
					+/-	75.6047	µg/mL	Stressed
45	Ethylbenzene <b>CAS #</b> 100-41-4 <b>Purity</b> 99%	(Lot SHBJ3183)	2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
					+/-	150.8361	µg/mL	Unstressed
					+/-	151.1942	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane <b>CAS #</b> 630-20-6 <b>Purity</b> 99%	(Lot MKBS3769V)	2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
					+/-	150.8361	µg/mL	Unstressed
					+/-	151.1942	µg/mL	Stressed
47	o-Xylene <b>CAS #</b> 95-47-6 <b>Purity</b> 99%	(Lot SHBH7231)	2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
					+/-	150.8813	µg/mL	Unstressed
					+/-	151.2395	µg/mL	Stressed
48	Styrene <b>CAS #</b> 100-42-5 <b>Purity</b> 99%	(Lot MKCC9766)	2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
					+/-	150.8361	µg/mL	Unstressed
					+/-	151.1942	µg/mL	Stressed
49	Isopropylbenzene (cumene) <b>CAS #</b> 98-82-8 <b>Purity</b> 99%	(Lot 10185056)	2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
					+/-	150.8436	µg/mL	Unstressed
					+/-	151.2017	µg/mL	Stressed
50	bromoform <b>CAS #</b> 75-25-2 <b>Purity</b> 99%	(Lot SHBG3138V)	2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
					+/-	150.8964	µg/mL	Unstressed
					+/-	151.2547	µg/mL	Stressed
51	bromodichloromethane <b>CAS #</b> 75-27-4 <b>Purity</b> 99%	(Lot MKCF8470)	2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
					+/-	150.9341	µg/mL	Unstressed
					+/-	151.2925	µg/mL	Stressed
52	1,1,1,2-Tetrachloroethane <b>CAS #</b> 79-34-5 <b>Purity</b> 99%	(Lot CFA4D)	2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
					+/-	150.8662	µg/mL	Unstressed
					+/-	151.2244	µg/mL	Stressed
53	1,2,3-Trichloropropane <b>CAS #</b> 96-18-4 <b>Purity</b> 99%	(Lot BCBH8722V)	2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
					+/-	150.9115	µg/mL	Unstressed
					+/-	151.2698	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene <b>CAS #</b> 110-57-6 <b>Purity</b> 94%	(Lot MKBX7788V)	2,500.0	µg/mL	+/-	14.5355	µg/mL	Gravimetric
					+/-	150.8389	µg/mL	Unstressed
					+/-	151.1971	µg/mL	Stressed
55	n-Propylbenzene <b>CAS #</b> 103-65-1 <b>Purity</b> 99%	(Lot WXBC3346V)	2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
					+/-	150.8361	µg/mL	Unstressed
					+/-	151.1942	µg/mL	Stressed

56	Bromobenzene <b>CAS #</b> 108-86-1 <b>Purity</b> 99%	(Lot WXBC5147V)	2,500.1 µg/mL	+/-	14.5359 µg/mL 150.8436 µg/mL 151.2017 µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene <b>CAS #</b> 108-67-8 <b>Purity</b> 99%	(Lot BCBS7648V)	2,500.5 µg/mL	+/-	14.5381 µg/mL 150.8662 µg/mL 151.2244 µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene <b>CAS #</b> 95-49-8 <b>Purity</b> 99%	(Lot MKBW5554V)	2,500.1 µg/mL	+/-	14.5359 µg/mL 150.8436 µg/mL 151.2017 µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene <b>CAS #</b> 106-43-4 <b>Purity</b> 99%	(Lot MKBL7753V)	2,500.9 µg/mL	+/-	14.5403 µg/mL 150.8889 µg/mL 151.2471 µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene <b>CAS #</b> 98-06-6 <b>Purity</b> 99%	(Lot STBD6954V)	2,500.1 µg/mL	+/-	14.5359 µg/mL 150.8436 µg/mL 151.2017 µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene <b>CAS #</b> 95-63-6 <b>Purity</b> 97%	(Lot MKBH5027V)	2,499.9 µg/mL	+/-	14.5348 µg/mL 150.8320 µg/mL 151.1901 µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene <b>CAS #</b> 135-98-8 <b>Purity</b> 99%	(Lot MKBR9260V)	2,501.1 µg/mL	+/-	14.5418 µg/mL 150.9040 µg/mL 151.2622 µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) <b>CAS #</b> 99-87-6 <b>Purity</b> 99%	(Lot MKBV3556V)	2,501.1 µg/mL	+/-	14.5418 µg/mL 150.9040 µg/mL 151.2622 µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene <b>CAS #</b> 541-73-1 <b>Purity</b> 99%	(Lot BCBQ7100V)	2,501.4 µg/mL	+/-	14.5432 µg/mL 150.9190 µg/mL 151.2773 µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene <b>CAS #</b> 106-46-7 <b>Purity</b> 99%	(Lot MKBS4401V)	2,501.5 µg/mL	+/-	14.5439 µg/mL 150.9266 µg/mL 151.2849 µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene <b>CAS #</b> 104-51-8 <b>Purity</b> 99%	(Lot 09804AE)	2,501.0 µg/mL	+/-	14.5410 µg/mL 150.8964 µg/mL 151.2547 µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene <b>CAS #</b> 95-50-1 <b>Purity</b> 99%	(Lot SHBG3111V)	2,502.9 µg/mL	+/-	14.5519 µg/mL 151.0095 µg/mL 151.3681 µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane <b>CAS #</b> 96-12-8 <b>Purity</b> 99%	(Lot FBL01)	2,502.0 µg/mL	+/-	14.5468 µg/mL 150.9567 µg/mL 151.3151 µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene <b>CAS #</b> 120-82-1 <b>Purity</b> 99%	(Lot SHBJ9215)	2,502.1 µg/mL	+/-	14.5476 µg/mL 150.9643 µg/mL 151.3227 µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene <b>CAS #</b> 87-68-3 <b>Purity</b> 99%	(Lot J31X013)	2,501.5 µg/mL	+/-	14.5439 µg/mL 150.9266 µg/mL 151.2849 µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene <b>CAS #</b> 91-20-3 <b>Purity</b> 99%	(Lot MKBZ8680V)	2,502.8 µg/mL	+/-	14.5512 µg/mL 151.0020 µg/mL 151.3605 µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/- 14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/- 150.9869	µg/mL	Unstressed
	Purity 99%			+/- 151.3454	µg/mL	Stressed

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

**Column:**  
60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

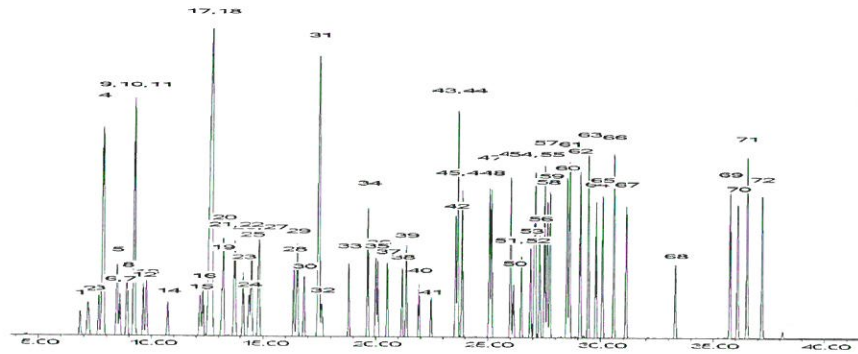
**Carrier Gas:**  
helium-constant pressure 30 psi

**Temp. Program:**  
40°C (hold 6 min.) to 240°C  
@ 6°C/min. (hold 10 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*F. Joseph Tallon*  
F. Joseph Tallon - Mix Technician

**Date Mixed:** 05-Dec-2018      **Balance:** B251644995

*Diane Shaffer*  
Diane Shaffer - Operations Tech-ARM QC

**Date Passed:** 21-Dec-2018

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



Reagent

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**VOARMegMix\_\_00035**



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 571992 **Lot No.:** A0143774

**Description :** 8260 List 1 / Std #1 MegaMix (2017)  
8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2021 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Diethyl ether (ethyl ether) CAS # 60-29-7 (Lot SHBJ5713) Purity 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL	+/- 150.8738 µg/mL	+/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1 (Lot 00009482) Purity 99%	2,501.6 µg/mL	+/- 14.5447 µg/mL	+/- 150.9341 µg/mL	+/- 151.2925 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene CAS # 75-35-4 (Lot SHBG8609V) Purity 99%	2,501.9 µg/mL	+/- 14.5461 µg/mL	+/- 150.9492 µg/mL	+/- 151.3076 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) CAS # 75-65-0 (Lot SHBJ9404) Purity 99%	25,008.1 µg/mL	+/- 145.3918 µg/mL	+/- 1,508.8503 µg/mL	+/- 1,512.4325 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate CAS # 79-20-9 (Lot SHBG4345V) Purity 99%	5,000.8 µg/mL	+/- 29.0748 µg/mL	+/- 301.7174 µg/mL	+/- 302.4337 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) CAS # 74-88-4 (Lot SHBH4362V) Purity 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL	+/- 150.8738 µg/mL	+/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride ( 3-chloropropene ) CAS # 107-05-1 (Lot WXBB7852V) Purity 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL	+/- 150.9567 µg/mL	+/- 151.3151 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) <b>CAS #</b> 75-09-2 (Lot SHBK5095) <b>Purity</b> 99%	2,500.8 µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide <b>CAS #</b> 75-15-0 (Lot U22D706) <b>Purity</b> 99%	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile <b>CAS #</b> 107-13-1 (Lot R15D047) <b>Purity</b> 99%	25,010.4 µg/mL	+/- 145.4049 +/- 1,508.9860 +/- 1,512.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether ( MTBE ) <b>CAS #</b> 1634-04-4 (Lot SHBH9526) <b>Purity</b> 99%	2,500.3 µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene <b>CAS #</b> 156-59-2 (Lot MKBX5945V) <b>Purity</b> 99%	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) <b>CAS #</b> 110-54-3 (Lot SHBH8106) <b>Purity</b> 99%	2,500.8 µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane <b>CAS #</b> 75-34-3 (Lot 462600) <b>Purity</b> 99%	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane <b>CAS #</b> 594-20-7 (Lot BCBT5124) <b>Purity</b> 99%	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene <b>CAS #</b> 156-60-5 (Lot MKBH9850V) <b>Purity</b> 99%	2,500.3 µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) <b>CAS #</b> 78-83-1 (Lot SHBK0551) <b>Purity</b> 99%	62,500.9 µg/mL	+/- 363.3665 +/- 3,770.9529 +/- 3,779.9058	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform <b>CAS #</b> 67-66-3 (Lot SHBJ9076) <b>Purity</b> 99%	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane <b>CAS #</b> 74-97-5 (Lot 00008541) <b>Purity</b> 98%	2,500.6 µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran <b>CAS #</b> 109-99-9 (Lot SHBJ6179) <b>Purity</b> 99%	5,000.6 µg/mL	+/- 29.0741 +/- 301.7099 +/- 302.4262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane <b>CAS #</b> 71-55-6 (Lot B15W12061) <b>Purity</b> 99%	2,500.8 µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane <b>CAS #</b> 110-82-7 (Lot MKCC9660) <b>Purity</b> 99%	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene <b>CAS #</b> 563-58-6 (Lot 180531JLM) <b>Purity</b> 99%	2,500.6 µg/mL	+/- 14.5388 +/- 150.8738 +/- 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride CAS # 56-23-5 Purity 99%	(Lot SHBJ2110)	2,501.1 µg/mL	+/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) CAS # 142-82-5 Purity 99%	(Lot SHBJ2424)	2,501.6 µg/mL	+/-	14.5447 150.9341 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot SHBJ0707)	2,501.3 µg/mL	+/-	14.5425 150.9115 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBJ5344)	2,500.9 µg/mL	+/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBH1955V)	2,500.5 µg/mL	+/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot SHBJ0457)	2,501.6 µg/mL	+/-	14.5447 150.9341 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot BCBR0882V)	2,500.5 µg/mL	+/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBJ7415)	50,001.1 µg/mL	+/-	290.6957 3,016.7880 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane CAS # 74-95-3 Purity 99%	(Lot 10201030)	2,502.0 µg/mL	+/-	14.5468 150.9567 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 25076)	2,501.4 µg/mL	+/-	14.5432 150.9190 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene CAS # 108-88-3 Purity 99%	(Lot SHBJ5659)	2,500.1 µg/mL	+/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot 69796APV)	2,502.8 µg/mL	+/-	14.5512 151.0020 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 98%	(Lot C797620)	2,500.6 µg/mL	+/-	14.5387 150.8718 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,500.4 µg/mL	+/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBG2162V)	2,500.9 µg/mL	+/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBH9691)	2,501.0 µg/mL	+/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed



40	dibromochloromethane			2,502.4	µg/mL	+/-	14.5493	µg/mL	Gravimetric
	<b>CAS #</b>	124-48-1	(Lot MKCC0877)			+/-	150.9827	µg/mL	Unstressed
	<b>Purity</b>	98%				+/-	151.3411	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)			2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	<b>CAS #</b>	106-93-4	(Lot BCBH3877V)			+/-	150.8587	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.2169	µg/mL	Stressed
42	Chlorobenzene			2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	<b>CAS #</b>	108-90-7	(Lot SHBH4459V)			+/-	150.9040	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.2622	µg/mL	Stressed
43	m-Xylene			1,251.5	µg/mL	+/-	7.2763	µg/mL	Gravimetric
	<b>CAS #</b>	108-38-3	(Lot SHBJ2338)			+/-	75.5085	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	75.6878	µg/mL	Stressed
44	p-Xylene			1,250.1	µg/mL	+/-	7.2683	µg/mL	Gravimetric
	<b>CAS #</b>	106-42-3	(Lot SHBJ0052)			+/-	75.4256	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	75.6047	µg/mL	Stressed
45	Ethylbenzene			2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	<b>CAS #</b>	100-41-4	(Lot SHBJ3183)			+/-	150.8361	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.1942	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane			2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	<b>CAS #</b>	630-20-6	(Lot MKBS3769V)			+/-	150.8361	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.1942	µg/mL	Stressed
47	o-Xylene			2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	<b>CAS #</b>	95-47-6	(Lot SHBH7231)			+/-	150.8813	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.2395	µg/mL	Stressed
48	Styrene			2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	<b>CAS #</b>	100-42-5	(Lot MKCC9766)			+/-	150.8361	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.1942	µg/mL	Stressed
49	Isopropylbenzene (cumene)			2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	<b>CAS #</b>	98-82-8	(Lot 10185056)			+/-	150.8436	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.2017	µg/mL	Stressed
50	bromoform			2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	<b>CAS #</b>	75-25-2	(Lot SHBG3138V)			+/-	150.8964	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.2547	µg/mL	Stressed
51	bromodichloromethane			2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	<b>CAS #</b>	75-27-4	(Lot MKCF8470)			+/-	150.9341	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.2925	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane			2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	<b>CAS #</b>	79-34-5	(Lot CFA4D)			+/-	150.8662	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.2244	µg/mL	Stressed
53	1,2,3-Trichloropropane			2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	<b>CAS #</b>	96-18-4	(Lot BCBH8722V)			+/-	150.9115	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.2698	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene			2,500.0	µg/mL	+/-	14.5355	µg/mL	Gravimetric
	<b>CAS #</b>	110-57-6	(Lot MKBX7788V)			+/-	150.8389	µg/mL	Unstressed
	<b>Purity</b>	94%				+/-	151.1971	µg/mL	Stressed
55	n-Propylbenzene			2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	<b>CAS #</b>	103-65-1	(Lot WXBC3346V)			+/-	150.8361	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.1942	µg/mL	Stressed

56	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot WXBC5147V)	2,500.1 µg/mL	+/-	14.5359 µg/mL 150.8436 µg/mL 151.2017 µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBS7648V)	2,500.5 µg/mL	+/-	14.5381 µg/mL 150.8662 µg/mL 151.2244 µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKBW5554V)	2,500.1 µg/mL	+/-	14.5359 µg/mL 150.8436 µg/mL 151.2017 µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKBL7753V)	2,500.9 µg/mL	+/-	14.5403 µg/mL 150.8889 µg/mL 151.2471 µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot STBD6954V)	2,500.1 µg/mL	+/-	14.5359 µg/mL 150.8436 µg/mL 151.2017 µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 97%	(Lot MKBH5027V)	2,499.9 µg/mL	+/-	14.5348 µg/mL 150.8320 µg/mL 151.1901 µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKBR9260V)	2,501.1 µg/mL	+/-	14.5418 µg/mL 150.9040 µg/mL 151.2622 µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKBV3556V)	2,501.1 µg/mL	+/-	14.5418 µg/mL 150.9040 µg/mL 151.2622 µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBQ7100V)	2,501.4 µg/mL	+/-	14.5432 µg/mL 150.9190 µg/mL 151.2773 µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBS4401V)	2,501.5 µg/mL	+/-	14.5439 µg/mL 150.9266 µg/mL 151.2849 µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09804AE)	2,501.0 µg/mL	+/-	14.5410 µg/mL 150.8964 µg/mL 151.2547 µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot SHBG3111V)	2,502.9 µg/mL	+/-	14.5519 µg/mL 151.0095 µg/mL 151.3681 µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 99%	(Lot FBL01)	2,502.0 µg/mL	+/-	14.5468 µg/mL 150.9567 µg/mL 151.3151 µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBJ9215)	2,502.1 µg/mL	+/-	14.5476 µg/mL 150.9643 µg/mL 151.3227 µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 99%	(Lot J31X013)	2,501.5 µg/mL	+/-	14.5439 µg/mL 150.9266 µg/mL 151.2849 µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBZ8680V)	2,502.8 µg/mL	+/-	14.5512 µg/mL 151.0020 µg/mL 151.3605 µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/- 14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/- 150.9869	µg/mL	Unstressed
	Purity 99%			+/- 151.3454	µg/mL	Stressed

**Solvent:** P&T Methanol  
CAS # 67-56-1  
Purity 99%

**Column:**  
60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

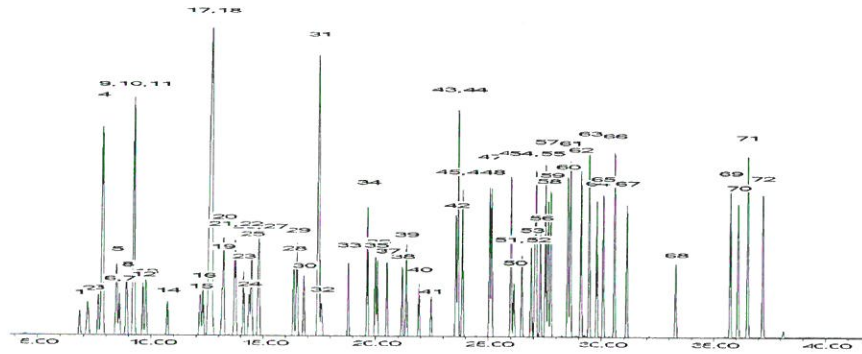
**Carrier Gas:**  
helium-constant pressure 30 psi

**Temp. Program:**  
40°C (hold 6 min.) to 240°C  
@ 6°C/min. (hold 10 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*F. Joseph Tallon*  
F. Joseph Tallon - Mix Technician

Date Mixed: 05-Dec-2018 Balance: B251644995

*Diane Shaffer*  
Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.





Reagent

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**VOARPOLARAD\_\_00019**



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*



2593155  
ID: VOARPOLARAD\_00019  
Exp: 01/31/21 Prpd. DCV  
8260 LIST 3 / Std #1 Pola

**Catalog No. :** 571993 **Lot No.:** A0144915

**Description :** 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2021 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acetonitrile	25,249.0 µg/mL	+/-	147.8384	µg/mL	Gravimetric
	CAS # 75-05-8 (Lot SHBH6233)		+/-	1,249.1362	µg/mL	Unstressed
	Purity 99%		+/-	1,280.1910	µg/mL	Stressed
2	Diisopropyl ether ( DIPE )	2,524.3 µg/mL	+/-	14.8142	µg/mL	Gravimetric
	CAS # 108-20-3 (Lot SHBH1927V)		+/-	124.8896	µg/mL	Unstressed
	Purity 99%		+/-	127.9943	µg/mL	Stressed
3	Ethyl-tert-butyl ether (ETBE)	2,524.3 µg/mL	+/-	14.8142	µg/mL	Gravimetric
	CAS # 637-92-3 (Lot MKCC2702)		+/-	124.8896	µg/mL	Unstressed
	Purity 99%		+/-	127.9943	µg/mL	Stressed
4	Propionitrile	25,249.7 µg/mL	+/-	147.8424	µg/mL	Gravimetric
	CAS # 107-12-0 (Lot BCBV8545)		+/-	1,249.1692	µg/mL	Unstressed
	Purity 99%		+/-	1,280.2248	µg/mL	Stressed
5	tert-Amyl alcohol	25,249.0 µg/mL	+/-	147.8384	µg/mL	Gravimetric
	CAS # 75-85-4 (Lot STBG1140V)		+/-	1,249.1362	µg/mL	Unstressed
	Purity 99%		+/-	1,280.1910	µg/mL	Stressed
6	tert-Amyl methyl ether (TAME)	2,523.7 µg/mL	+/-	14.8103	µg/mL	Gravimetric
	CAS # 994-05-8 (Lot HMBF8365V)		+/-	124.8566	µg/mL	Unstressed
	Purity 99%		+/-	127.9605	µg/mL	Stressed

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

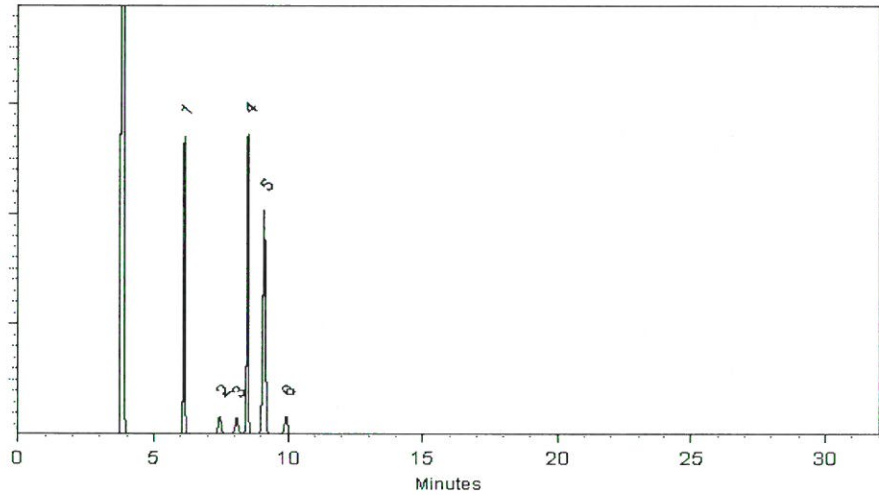
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Jessica McClenahan*

Jessica McClenahan - Operations Technician I

**Date Mixed:** 14-Jan-2019

**Balance:** B251644995

*Jennifer J Pollino*

Jennifer Pollino - Operations Tech-ARM QC

**Date Passed:** 16-Jan-2019

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARSURR/IS\_00048**



# CERTIFIED REFERENCE MATERIAL

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## Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 570812 Lot No.: A0131478

Description : 8260 IS/Surrogate Mix (2016)

8260 IS/Surrogate Mix (2016) 250-5,000µg/mL, P&T Methanol, - 5mL/ampul

Container Size : 5 mL Pkg Amt: > 5 mL

Expiration Date : October 31, 2022 Storage: 0°C or colder

*Approved HDK 6-15-18*

2180791  
ID: VOARSURR/IS\_00048  
Exp: 10/31/22 Prpd: HDK  
8260 IS/Surrogate Mix (20)

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 Purity 98% (Lot CD-107)	5,017.3 µg/mL	+/-	29.1695	µg/mL	Gravimetric
			+/-	107.4207	µg/mL	Unstressed
			+/-	110.5436	µg/mL	Stressed
2	Dibromofluoromethane CAS # 1868-53-7 Purity 99.8% (Lot 0012017)	249.0 µg/mL	+/-	1.4511	µg/mL	Gravimetric
			+/-	5.3320	µg/mL	Unstressed
			+/-	5.4870	µg/mL	Stressed
3	1,2-Dichloroethane-d4 CAS # 17060-07-0 Purity 99% (Lot PR-26748)	249.6 µg/mL	+/-	1.4545	µg/mL	Gravimetric
			+/-	5.3449	µg/mL	Unstressed
			+/-	5.5002	µg/mL	Stressed
4	1,4-Dioxane-d8 CAS # 17647-74-4 Purity 99% (Lot I-19942)	4,979.2 µg/mL	+/-	28.9478	µg/mL	Gravimetric
			+/-	106.6041	µg/mL	Unstressed
			+/-	109.7033	µg/mL	Stressed
5	Fluorobenzene CAS # 462-06-6 Purity 99% (Lot BCBK8171V)	250.0 µg/mL	+/-	1.4567	µg/mL	Gravimetric
			+/-	5.3527	µg/mL	Unstressed
			+/-	5.5083	µg/mL	Stressed
6	Toluene-d8 CAS # 2037-26-5 Purity 99% (Lot PR-26623)	249.2 µg/mL	+/-	1.4522	µg/mL	Gravimetric
			+/-	5.3363	µg/mL	Unstressed
			+/-	5.4914	µg/mL	Stressed
7	Chlorobenzene-d5 CAS # 3114-55-4 Purity 99% (Lot PR-23926)	249.6 µg/mL	+/-	1.4545	µg/mL	Gravimetric
			+/-	5.3449	µg/mL	Unstressed
			+/-	5.5002	µg/mL	Stressed

8	1-Bromo-4-fluorobenzene (BFB)		248.5	µg/mL	+/-	1.4481	µg/mL	Gravimetric
	<b>CAS #</b> 460-00-4	(Lot 20401KOV)			+/-	5.3213	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	5.4760	µg/mL	Stressed
9	1,4-Dichlorobenzene-d4		249.5	µg/mL	+/-	1.4540	µg/mL	Gravimetric
	<b>CAS #</b> 3855-82-1	(Lot PR-18488)			+/-	5.3427	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	5.4980	µg/mL	Stressed
<b>Solvent:</b>	P&T Methanol							
	<b>CAS #</b> 67-56-1							
	<b>Purity</b> 99%							

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

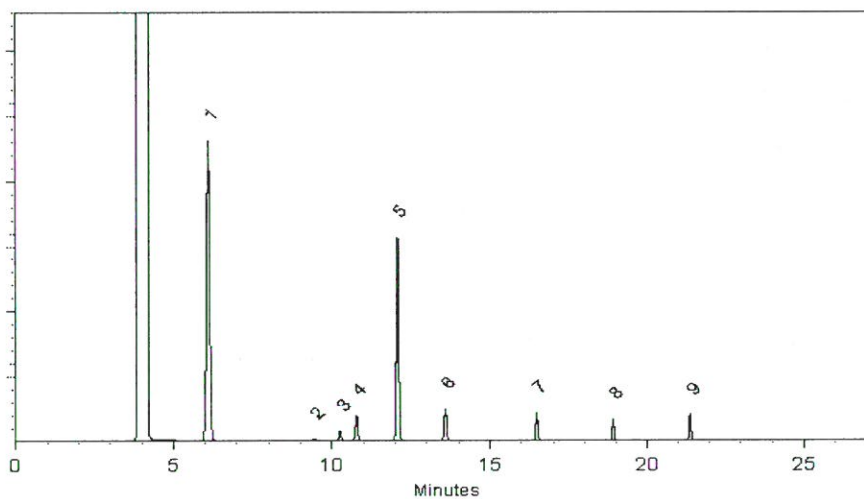
200°C

**Det. Temp:**

250°C

**Det. Type:**

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Cydnei L. Crust*  
Cydnei L. Crust - Mix Technician

**Date Mixed:** 09-Oct-2017

**Balance:** B707717271

*Jennifer L. Pollino*  
Jennifer Pollino - Operations Tech-ARM QC

**Date Passed:** 24-Oct-2017

Manufactured under Restek's ISO 9001:2008  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOARVA\_00053**





# CERTIFIED REFERENCE MATERIAL

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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 569724 **Lot No.:** A0156559

**Description :** 8260 List 1 / Std #6 Vinyl Acetate (2015)  
8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2021 **Storage:** 0°C or colder

**Handling:** This product is photosensitive.

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Vinyl acetate CAS # 108-05-4 Purity 99%	5,040.0 µg/mL (Lot 192709KJ)	+/- 29.5103 µg/mL Gravimetric +/- 304.1056 µg/mL Unstressed +/- 304.8275 µg/mL Stressed

**Solvent:** P&T Methanol  
CAS # 67-56-1  
Purity 99%

#### Specific Reference Material Notes:

08 April 2020  
Expiration date extended from July 31, 2020 to July 31, 2021.

#### Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

**Column:**  
105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

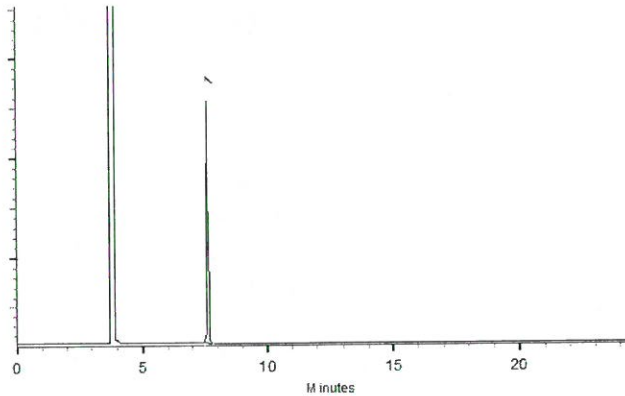
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Tom Suckar - Mix Technician

**Date Mixed:** 10-Jan-2020

**Balance:** B442140311

  
Justine Albertson - Operations Tech-ARM QC

**Date Passed:** 13-Jan-2020

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOASGAS2\_\_00024**



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# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 569722.SEC Lot No.: A0147004  
 Description : 8260 List 1 / Std #3 Gases (2015)  
8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul  
 Container Size : 2 mL Pkg Amt: > 1 mL  
 Expiration Date : March 31, 2022 Storage: 0°C or colder



2445105  
 ID: VOASGAS2\_00024  
 Exp 03/31/22 Prod JSM Opn 08/06/19  
 8260 List 1/Std #3 Gases

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dichlorodifluoromethane (CFC-12)	2,502.6 µg/mL	+/-	18.1926	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 25587)		+/-	140.7448	µg/mL	Unstressed
	Purity 99%		+/-	144.0185	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,501.0 µg/mL	+/-	19.9774	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/-	140.8939	µg/mL	Unstressed
	Purity 99%		+/-	144.1598	µg/mL	Stressed
3	Vinyl chloride	2,504.4 µg/mL	+/-	18.8833	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/-	140.9336	µg/mL	Unstressed
	Purity 99%		+/-	144.2075	µg/mL	Stressed
4	1,3-Butadiene	2,510.8 µg/mL	+/-	17.6771	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 24033)		+/-	141.1317	µg/mL	Unstressed
	Purity 99%		+/-	144.4177	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,504.5 µg/mL	+/-	24.1672	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/-	141.7438	µg/mL	Unstressed
	Purity 99%		+/-	144.9997	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,502.0 µg/mL	+/-	17.7700	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/-	140.6543	µg/mL	Unstressed
	Purity 99%		+/-	143.9283	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 7978700)		+/-	140.1725	µg/mL	Unstressed
	Purity 99%		+/-	143.4524	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)	2,501.8 µg/mL	+/- 18.3807	µg/mL	Gravimetric
	CAS # 75-69-4.SEC (Lot 253600)		+/- 140.7217	µg/mL	Unstressed
	Purity 99%		+/- 143.9937	µg/mL	Stressed

**Solvent:** P&T Methanol  
CAS # 67-56-1  
Purity 99%

\* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

**Tech Tips:**

Raw material may contain trace amounts of tert-Butanol.

**Column:**  
60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

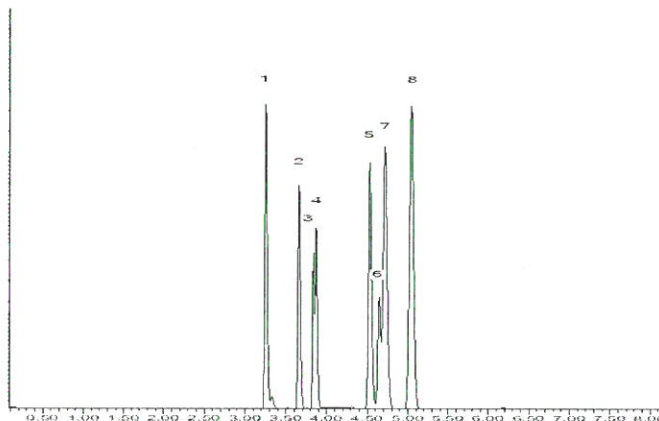
**Carrier Gas:**  
helium-constant pressure 30 psi

**Temp. Program:**  
40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Brandon Reish*  
Brandon Reish - Mix Technician

Date Mixed: 13-Mar-2019 Balance: 1127510105

*Justine Albertson*  
Justine Albertson - Operations Tech-ARM GC

Date Passed: 18-Mar-2019

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

Reagent

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**VOASMegMix2\_\_00023**



# CERTIFIED REFERENCE MATERIAL

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## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 571992.SEC **Lot No.:** A0144202

**Description :** 8260 List 1 / Std #1 MegaMix (2017)  
8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2021 **Storage:** 0°C or colder

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Diethyl ether (ethyl ether)	2,517.0 µg/mL	+/-	14.6339	µg/mL	Gravimetric
	CAS # 60-29-7.SEC (Lot F23X068)		+/-	151.8598	µg/mL	Unstressed
	Purity 98%		+/-	152.2203	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,506.7 µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/-	151.2383	µg/mL	Unstressed
	Purity 99%		+/-	151.5974	µg/mL	Stressed
3	1,1-Dichloroethene	2,503.3 µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 7692300)		+/-	151.0372	µg/mL	Unstressed
	Purity 99%		+/-	151.3958	µg/mL	Stressed
4	tert-Butanol (TBA)	25,000.8 µg/mL	+/-	145.3491	µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot XYXDO)		+/-	1,508.4071	µg/mL	Unstressed
	Purity 98%		+/-	1,511.9883	µg/mL	Stressed
5	Methyl acetate	5,002.3 µg/mL	+/-	29.0840	µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot UCNEL)		+/-	301.8129	µg/mL	Unstressed
	Purity 99%		+/-	302.5295	µg/mL	Stressed
6	Iodomethane (methyl iodide)	2,503.5 µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/-	151.0472	µg/mL	Unstressed
	Purity 99%		+/-	151.4059	µg/mL	Stressed
7	Allyl chloride ( 3-chloropropene )	2,511.7 µg/mL	+/-	14.6030	µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot H3HGC)		+/-	151.5400	µg/mL	Unstressed
	Purity 99%		+/-	151.8998	µg/mL	Stressed



8	Methylene chloride (dichloromethane)		2,506.7	µg/mL	+/-	14.5740	µg/mL	Gravimetric
	<b>CAS #</b> 75-09-2.SEC	(Lot FGM02)			+/-	151.2383	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.5974	µg/mL	Stressed
9	Carbon disulfide		2,500.7	µg/mL	+/-	14.5391	µg/mL	Gravimetric
	<b>CAS #</b> 75-15-0.SEC	(Lot MKBL1376V)			+/-	150.8763	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2345	µg/mL	Stressed
10	Acrylonitrile		25,001.2	µg/mL	+/-	145.3513	µg/mL	Gravimetric
	<b>CAS #</b> 107-13-1.SEC	(Lot UERIL)			+/-	1,508.4304	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	1,512.0117	µg/mL	Stressed
11	Methyl-tert-butyl ether ( MTBE )		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	<b>CAS #</b> 1634-04-4.SEC	(Lot ZHKYA)			+/-	150.9266	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2849	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,501.3	µg/mL	+/-	14.5427	µg/mL	Gravimetric
	<b>CAS #</b> 156-59-2.SEC	(Lot HGC01-BLKT)			+/-	150.9137	µg/mL	Unstressed
	<b>Purity</b> 98%				+/-	151.2720	µg/mL	Stressed
13	n-Hexane (C6)		2,503.2	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	<b>CAS #</b> 110-54-3.SEC	(Lot K24W001)			+/-	151.0320	µg/mL	Unstressed
	<b>Purity</b> 97%				+/-	151.3905	µg/mL	Stressed
14	1,1-Dichloroethane		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	<b>CAS #</b> 75-34-3.SEC	(Lot 5379000)			+/-	150.9567	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.3151	µg/mL	Stressed
15	2,2-Dichloropropane		2,503.2	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	<b>CAS #</b> 594-20-7.SEC	(Lot I7E8E)			+/-	151.0320	µg/mL	Unstressed
	<b>Purity</b> 98%				+/-	151.3905	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,501.0	µg/mL	+/-	14.5409	µg/mL	Gravimetric
	<b>CAS #</b> 156-60-5.SEC	(Lot TSSUB)			+/-	150.8954	µg/mL	Unstressed
	<b>Purity</b> 97%				+/-	151.2537	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,508.3	µg/mL	+/-	363.4098	µg/mL	Gravimetric
	<b>CAS #</b> 78-83-1.SEC	(Lot PH2XK)			+/-	3,771.4029	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	3,780.3569	µg/mL	Stressed
18	Chloroform		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	<b>CAS #</b> 67-66-3.SEC	(Lot 1297547)			+/-	150.8662	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.2244	µg/mL	Stressed
19	Bromochloromethane		2,507.0	µg/mL	+/-	14.5759	µg/mL	Gravimetric
	<b>CAS #</b> 74-97-5.SEC	(Lot 5670200)			+/-	151.2584	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.6175	µg/mL	Stressed
20	Tetrahydrofuran		5,006.7	µg/mL	+/-	29.1092	µg/mL	Gravimetric
	<b>CAS #</b> 109-99-9.SEC	(Lot 8DAOJ)			+/-	302.0744	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	302.7916	µg/mL	Stressed
21	1,1,1-Trichloroethane		2,507.7	µg/mL	+/-	14.5798	µg/mL	Gravimetric
	<b>CAS #</b> 71-55-6.SEC	(Lot 7998000)			+/-	151.2986	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.6579	µg/mL	Stressed
22	Cyclohexane		2,508.0	µg/mL	+/-	14.5817	µg/mL	Gravimetric
	<b>CAS #</b> 110-82-7.SEC	(Lot YADRA)			+/-	151.3188	µg/mL	Unstressed
	<b>Purity</b> 99%				+/-	151.6780	µg/mL	Stressed
23	1,1-Dichloropropene		2,502.4	µg/mL	+/-	14.5492	µg/mL	Gravimetric
	<b>CAS #</b> 563-58-6.SEC	(Lot 5221100)			+/-	150.9809	µg/mL	Unstressed
	<b>Purity</b> 96%				+/-	151.3393	µg/mL	Stressed



24	Carbon tetrachloride <b>CAS #</b> 56-23-5.SEC <b>Purity</b> 99%	(Lot 11466)	2,510.3 µg/mL	+/-	14.5953 µg/mL 151.4595 µg/mL 151.8191 µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) <b>CAS #</b> 142-82-5.SEC <b>Purity</b> 99%	(Lot TFHUC)	2,511.8 µg/mL	+/-	14.6040 µg/mL 151.5500 µg/mL 151.9098 µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane <b>CAS #</b> 107-06-2.SEC <b>Purity</b> 99%	(Lot FO6PK)	2,501.3 µg/mL	+/-	14.5430 µg/mL 150.9165 µg/mL 151.2748 µg/mL	Gravimetric Unstressed Stressed
27	Benzene <b>CAS #</b> 71-43-2.SEC <b>Purity</b> 99%	(Lot B28Y008)	2,504.8 µg/mL	+/-	14.5633 µg/mL 151.1277 µg/mL 151.4865 µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene <b>CAS #</b> 79-01-6.SEC <b>Purity</b> 99%	(Lot H04X050)	2,508.7 µg/mL	+/-	14.5856 µg/mL 151.3590 µg/mL 151.7183 µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane <b>CAS #</b> 108-87-2.SEC <b>Purity</b> 99%	(Lot Q02QG)	2,504.5 µg/mL	+/-	14.5614 µg/mL 151.1076 µg/mL 151.4663 µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane <b>CAS #</b> 78-87-5.SEC <b>Purity</b> 99%	(Lot ERRBI-RH)	2,504.0 µg/mL	+/-	14.5585 µg/mL 151.0774 µg/mL 151.4361 µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane <b>CAS #</b> 123-91-1.SEC <b>Purity</b> 99%	(Lot YVP2C)	50,008.0 µg/mL	+/-	290.7356 µg/mL 3,017.2028 µg/mL 3,024.3661 µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane <b>CAS #</b> 74-95-3.SEC <b>Purity</b> 99%	(Lot FGI01-OICH)	2,509.5 µg/mL	+/-	14.5904 µg/mL 151.4093 µg/mL 151.7687 µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene <b>CAS #</b> 10061-01-5.SEC <b>Purity</b> 99%	(Lot 487OA)	2,502.0 µg/mL	+/-	14.5468 µg/mL 150.9567 µg/mL 151.3151 µg/mL	Gravimetric Unstressed Stressed
34	Toluene <b>CAS #</b> 108-88-3.SEC <b>Purity</b> 99%	(Lot YND2B-BD)	2,501.5 µg/mL	+/-	14.5439 µg/mL 150.9266 µg/mL 151.2849 µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate <b>CAS #</b> 97-63-2.SEC <b>Purity</b> 99%	(Lot MLWYK-LS)	2,508.8 µg/mL	+/-	14.5866 µg/mL 151.3690 µg/mL 151.7284 µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene <b>CAS #</b> 10061-02-6.SEC <b>Purity</b> 96%	(Lot ZDMSL)	2,502.9 µg/mL	+/-	14.5520 µg/mL 151.0098 µg/mL 151.3684 µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane <b>CAS #</b> 79-00-5.SEC <b>Purity</b> 99%	(Lot 7871500)	2,502.5 µg/mL	+/-	14.5498 µg/mL 150.9869 µg/mL 151.3454 µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane <b>CAS #</b> 142-28-9.SEC <b>Purity</b> 99%	(Lot AGN01-EFPC)	2,502.7 µg/mL	+/-	14.5507 µg/mL 150.9970 µg/mL 151.3555 µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene <b>CAS #</b> 127-18-4.SEC <b>Purity</b> 99%	(Lot F09W014)	2,505.0 µg/mL	+/-	14.5643 µg/mL 151.1378 µg/mL 151.4966 µg/mL	Gravimetric Unstressed Stressed

40	Dibromochloromethane CAS # 124-48-1.SEC Purity 97%	(Lot 10206360)	2,502.4	µg/mL	+/-	14.5494 +/- 150.9832 +/- 151.3417	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4.SEC Purity 99%	(Lot 3505900)	2,503.3	µg/mL	+/-	14.5546 +/- 151.0372 +/- 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7.SEC Purity 99%	(Lot 1161936)	2,504.8	µg/mL	+/-	14.5633 +/- 151.1277 +/- 151.4865	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene CAS # 108-38-3.SEC Purity 99%	(Lot OUKMG-GB)	1,251.7	µg/mL	+/-	7.2941 +/- 75.5202 +/- 75.6995	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene CAS # 106-42-3.SEC Purity 99%	(Lot GM01)	1,253.7	µg/mL	+/-	7.3058 +/- 75.6409 +/- 75.8205	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene CAS # 100-41-4.SEC Purity 99%	(Lot PI4SE)	2,503.5	µg/mL	+/-	14.5556 +/- 151.0472 +/- 151.4059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane CAS # 630-20-6.SEC Purity 99%	(Lot GC01)	2,506.7	µg/mL	+/-	14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene CAS # 95-47-6.SEC Purity 99%	(Lot FGL01)	2,504.2	µg/mL	+/-	14.5594 +/- 151.0875 +/- 151.4462	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5.SEC Purity 99%	(Lot OFIOL-IA)	2,507.2	µg/mL	+/-	14.5769 +/- 151.2685 +/- 151.6276	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8.SEC Purity 99%	(Lot 2PHXG-IH)	2,505.2	µg/mL	+/-	14.5653 +/- 151.1478 +/- 151.5067	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	Bromoform CAS # 75-25-2.SEC Purity 97%	(Lot 5461400)	2,500.5	µg/mL	+/-	14.5381 +/- 150.8661 +/- 151.2243	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Bromodichloromethane CAS # 75-27-4.SEC Purity 98%	(Lot 13780)	2,501.3	µg/mL	+/-	14.5427 +/- 150.9137 +/- 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,1,2-Tetrachloroethane CAS # 79-34-5.SEC Purity 99%	(Lot CFA4D-AQ)	2,502.0	µg/mL	+/-	14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4.SEC Purity 99%	(Lot GUHZN)	2,505.7	µg/mL	+/-	14.5682 +/- 151.1780 +/- 151.5369	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-Dichloro-2-butene CAS # 110-57-6.SEC Purity 98%	(Lot 100700-3)	2,514.2	µg/mL	+/-	14.6177 +/- 151.6922 +/- 152.0524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1.SEC Purity 99%	(Lot T2HFC)	2,503.7	µg/mL	+/-	14.5565 +/- 151.0573 +/- 151.4159	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene			2,506.2	µg/mL	+/-	14.5711	µg/mL	Gravimetric
	<b>CAS #</b>	108-86-1.SEC	(Lot 2FUHG-EM)			+/-	151.2081	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.5671	µg/mL	Stressed
57	1,3,5-Trimethylbenzene			2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	<b>CAS #</b>	108-67-8.SEC	(Lot FGH02-CMLN)			+/-	151.4394	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.7990	µg/mL	Stressed
58	2-Chlorotoluene			2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	<b>CAS #</b>	95-49-8.SEC	(Lot SW8QG-AO)			+/-	151.1176	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.4764	µg/mL	Stressed
59	4-Chlorotoluene			2,509.2	µg/mL	+/-	14.5885	µg/mL	Gravimetric
	<b>CAS #</b>	106-43-4.SEC	(Lot P4XHJ-AO)			+/-	151.3891	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.7486	µg/mL	Stressed
60	tert-Butylbenzene			2,505.8	µg/mL	+/-	14.5691	µg/mL	Gravimetric
	<b>CAS #</b>	98-06-6.SEC	(Lot D6OHC)			+/-	151.1880	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.5470	µg/mL	Stressed
61	1,2,4-Trimethylbenzene			2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	<b>CAS #</b>	95-63-6.SEC	(Lot JMIYD)			+/-	151.3590	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.7183	µg/mL	Stressed
62	sec-Butylbenzene			2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	<b>CAS #</b>	135-98-8.SEC	(Lot OGN01-IMA)			+/-	151.1176	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.4764	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)			2,500.3	µg/mL	+/-	14.5372	µg/mL	Gravimetric
	<b>CAS #</b>	99-87-6.SEC	(Lot 6628200)			+/-	150.8562	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.2143	µg/mL	Stressed
64	1,3-Dichlorobenzene			2,506.3	µg/mL	+/-	14.5720	µg/mL	Gravimetric
	<b>CAS #</b>	541-73-1.SEC	(Lot FMDFD)			+/-	151.2182	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.5772	µg/mL	Stressed
65	1,4-Dichlorobenzene			2,509.8	µg/mL	+/-	14.5924	µg/mL	Gravimetric
	<b>CAS #</b>	106-46-7.SEC	(Lot 4Y5DC)			+/-	151.4294	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.7889	µg/mL	Stressed
66	n-Butylbenzene			2,513.7	µg/mL	+/-	14.6147	µg/mL	Gravimetric
	<b>CAS #</b>	104-51-8.SEC	(Lot MMPGA)			+/-	151.6607	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	152.0207	µg/mL	Stressed
67	1,2-Dichlorobenzene			2,501.8	µg/mL	+/-	14.5459	µg/mL	Gravimetric
	<b>CAS #</b>	95-50-1.SEC	(Lot R6QDM)			+/-	150.9467	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.3051	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane			2,508.5	µg/mL	+/-	14.5845	µg/mL	Gravimetric
	<b>CAS #</b>	96-12-8.SEC	(Lot LC00408V)			+/-	151.3473	µg/mL	Unstressed
	<b>Purity</b>	98%				+/-	151.7066	µg/mL	Stressed
69	1,2,4-Trichlorobenzene			2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	<b>CAS #</b>	120-82-1.SEC	(Lot 3LYYC)			+/-	151.0372	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.3958	µg/mL	Stressed
70	Hexachlorobutadiene			2,504.4	µg/mL	+/-	14.5607	µg/mL	Gravimetric
	<b>CAS #</b>	87-68-3.SEC	(Lot 5526800)			+/-	151.1002	µg/mL	Unstressed
	<b>Purity</b>	97%				+/-	151.4590	µg/mL	Stressed
71	Naphthalene			2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	<b>CAS #</b>	91-20-3.SEC	(Lot 4KW3H-OO)			+/-	151.0372	µg/mL	Unstressed
	<b>Purity</b>	99%				+/-	151.3958	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,512.2 µg/mL	+/- 14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/- 151.5740	µg/mL	Unstressed
	Purity 98%			+/- 151.9338	µg/mL	Stressed

**Solvent:** P&T Methanol  
**CAS #** 67-56-1  
**Purity** 99%

**Column:**  
60m x 0.25mm x 1.4µm  
Rtx-502.2 (cat.#10916)

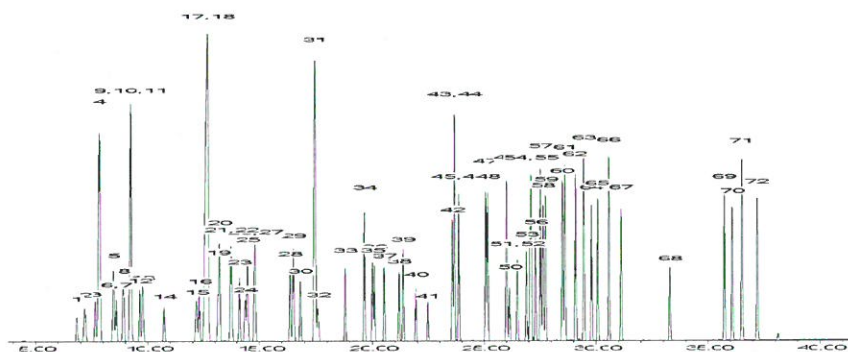
**Carrier Gas:**  
helium-constant pressure 30 psi

**Temp. Program:**  
40°C (hold 6 min.) to 240°C  
@ 6°C/min. (hold 10 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Brandon Reish*  
**Brandon Reish - Mix Technician**

**Date Mixed:** 17-Dec-2018      **Balance:** 1127510105

*Diane Shaffer*  
**Diane Shaffer - Operations Tech-ARM QC**

**Date Passed:** 21-Dec-2018

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

# 8260D

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Volatile Organic Compounds by GC/MS

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low

GC Column (1): 624SIL-MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
AB-01B-15.5	580-98033-1	95	95	97	95
AB-02B-16.5	580-98033-2	99	93	119	95
AB-02B-16.5 RA	580-98033-2 RA	97	98	108	92
AB-03B-16.5	580-98033-3	96	100	125	X 91
AB-03B-16.5 RA	580-98033-3 RA	95	96	113	84
AB-04B-16.5	580-98033-4	97	95	101	103
Trip-Blank-02	580-98033-5	118	131	X 61	X 78
	MB 580-340245/1-A	94	94	102	97
	MB 580-340822/1-A	93	89	102	98
	LCS 580-340245/2-A	97	95	96	96
	LCS 580-340822/2-A	94	91	102	100
	LCSD 580-340245/3-A	97	95	103	100
	LCSD 580-340822/3-A	96	88	99	97

DBFM = Dibromofluoromethane (Surr)	<u>QC LIMITS</u> 80-120
DCA = 1,2-Dichloroethane-d4 (Surr)	80-121
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

# Column to be used to flag recovery values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low

Lab File ID: 10072020\_004.D

Lab ID: LCS 580-340245/2-A

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20.0	11.8	59	24-150	
Chloromethane	20.0	13.8	69	52-150	
Vinyl chloride	20.0	15.1	75	54-150	
Bromomethane	20.0	17.3	86	42-150	
Chloroethane	20.0	21.4	107	50-150	
Trichlorofluoromethane	20.0	17.1	85	71-150	
1,1-Dichloroethene	20.0	18.2	91	73-143	
Methylene Chloride	20.0	20.5 J	102	66-140	
Methyl tert-butyl ether	20.0	20.9	105	77-132	
trans-1,2-Dichloroethene	20.0	17.1	85	77-134	
1,1-Dichloroethane	20.0	18.4	92	78-135	
2,2-Dichloropropane	20.0	18.7	93	62-150	
cis-1,2-Dichloroethene	20.0	20.7	104	68-132	
Chlorobromomethane	20.0	20.4	102	76-131	
Chloroform	20.0	18.9	95	74-133	
1,1,1-Trichloroethane	20.0	18.5	93	78-144	
Carbon tetrachloride	20.0	18.7	94	66-150	
1,1-Dichloropropene	20.0	18.4	92	76-140	
Benzene	20.0	20.1	101	79-135	
1,2-Dichloroethane	20.0	19.1	95	76-132	
Trichloroethene	20.0	18.9	95	80-134	
1,2-Dichloropropane	20.0	20.5	103	65-136	
Dibromomethane	20.0	22.1	110	72-130	
Dichlorobromomethane	20.0	19.6	98	73-125	
cis-1,3-Dichloropropene	20.0	20.1	101	80-122	
Toluene	20.0	19.4	97	75-137	
trans-1,3-Dichloropropene	20.0	19.9	100	80-121	
1,1,2-Trichloroethane	20.0	21.4	107	80-123	
Tetrachloroethene	20.0	19.4	97	58-150	
1,3-Dichloropropane	20.0	21.1	105	75-120	
Chlorodibromomethane	20.0	19.7	99	75-132	
Ethylene Dibromide	20.0	21.6	108	77-123	
Chlorobenzene	20.0	20.3	101	80-131	
1,1,1,2-Tetrachloroethane	20.0	18.8	94	79-128	
Ethylbenzene	20.0	20.5	103	80-135	
m-Xylene & p-Xylene	20.0	17.8	89	80-132	
o-Xylene	20.0	20.0	100	80-132	
Styrene	20.0	20.2	101	79-129	
Bromoform	20.0	18.6	93	71-146	
Isopropylbenzene	20.0	18.9	95	81-140	
Bromobenzene	20.0	20.3	101	78-126	
1,1,2,2-Tetrachloroethane	20.0	23.4	117	77-127	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low Lab File ID: 10072020\_004.D

Lab ID: LCS 580-340245/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,2,3-Trichloropropane	20.0	20.2	101	77-127	
N-Propylbenzene	20.0	19.7	99	68-149	
2-Chlorotoluene	20.0	20.1	100	77-134	
4-Chlorotoluene	20.0	19.4	97	71-137	
tert-Butylbenzene	20.0	18.0	90	72-144	
1,2,4-Trimethylbenzene	20.0	19.2	96	73-138	
sec-Butylbenzene	20.0	18.8	94	71-143	
4-Isopropyltoluene	20.0	18.7	94	71-142	
1,3-Dichlorobenzene	20.0	20.1	100	78-132	
1,4-Dichlorobenzene	20.0	20.0	100	77-123	
n-Butylbenzene	20.0	18.1	90	69-143	
1,2-Dichlorobenzene	20.0	20.5	103	78-126	
1,2-Dibromo-3-Chloropropane	20.0	20.7	103	75-129	
1,2,4-Trichlorobenzene	20.0	18.9	95	74-131	
Hexachlorobutadiene	20.0	15.4	77	65-150	
Naphthalene	20.0	20.5	102	64-136	
1,2,3-Trichlorobenzene	20.0	18.9	94	68-136	
1,3,5-Trimethylbenzene	20.0	19.2	96	72-142	

# Column to be used to flag recovery and RPD values



FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low Lab File ID: 10142020\_004.D

Lab ID: LCS 580-340822/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,2,4-Trimethylbenzene	20.0	19.9	99	73-138	
sec-Butylbenzene	20.0	20.6	103	71-143	
4-Isopropyltoluene	20.0	20.3	102	71-142	
n-Butylbenzene	20.0	20.1	100	69-143	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low

Lab File ID: 10072020\_005.D

Lab ID: LCSD 580-340245/3-A

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Dichlorodifluoromethane	20.0	13.0	65	10	40	24-150	
Chloromethane	20.0	14.8	74	7	26	52-150	
Vinyl chloride	20.0	16.7	83	10	40	54-150	
Bromomethane	20.0	19.8	99	14	40	42-150	
Chloroethane	20.0	19.8	99	8	31	50-150	
Trichlorofluoromethane	20.0	17.5	87	2	36	71-150	
1,1-Dichloroethene	20.0	19.8	99	9	34	73-143	
Methylene Chloride	20.0	23.2 J	116	13	30	66-140	
Methyl tert-butyl ether	20.0	23.6	118	12	25	77-132	
trans-1,2-Dichloroethene	20.0	20.5	102	18	33	77-134	
1,1-Dichloroethane	20.0	21.7	108	16	31	78-135	
2,2-Dichloropropane	20.0	21.8	109	15	40	62-150	
cis-1,2-Dichloroethene	20.0	23.8	119	14	32	68-132	
Chlorobromomethane	20.0	24.2	121	17	28	76-131	
Chloroform	20.0	22.5	112	17	36	74-133	
1,1,1-Trichloroethane	20.0	21.9	109	17	38	78-144	
Carbon tetrachloride	20.0	22.2	111	17	39	66-150	
1,1-Dichloropropene	20.0	21.5	108	16	38	76-140	
Benzene	20.0	23.5	117	15	31	79-135	
1,2-Dichloroethane	20.0	21.9	110	14	29	76-132	
Trichloroethene	20.0	22.8	114	19	40	80-134	
1,2-Dichloropropane	20.0	23.3	116	13	37	65-136	
Dibromomethane	20.0	25.8	129	16	34	72-130	
Dichlorobromomethane	20.0	22.4	112	13	40	73-125	
cis-1,3-Dichloropropene	20.0	23.6	118	16	40	80-122	
Toluene	20.0	23.2	116	18	34	75-137	
trans-1,3-Dichloropropene	20.0	22.9	115	14	40	80-121	
1,1,2-Trichloroethane	20.0	24.9	124	15	39	80-123	*
Tetrachloroethene	20.0	23.0	115	17	40	58-150	
1,3-Dichloropropane	20.0	24.7	124	16	37	75-120	*
Chlorodibromomethane	20.0	22.2	111	12	40	75-132	
Ethylene Dibromide	20.0	24.5	123	13	37	77-123	
Chlorobenzene	20.0	24.2	121	17	40	80-131	
1,1,1,2-Tetrachloroethane	20.0	21.2	106	12	40	79-128	
Ethylbenzene	20.0	25.0	125	20	37	80-135	
m-Xylene & p-Xylene	20.0	21.1	105	17	38	80-132	
o-Xylene	20.0	23.7	119	17	39	80-132	
Styrene	20.0	23.2	116	14	40	79-129	
Bromoform	20.0	20.1	100	7	40	71-146	
Isopropylbenzene	20.0	23.0	115	19	40	81-140	
Bromobenzene	20.0	23.2	116	14	40	78-126	
1,1,2,2-Tetrachloroethane	20.0	26.3	131	12	40	77-127	*

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Solid Level: Low Lab File ID: 10072020\_005.D  
 Lab ID: LCSD 580-340245/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,2,3-Trichloropropane	20.0	24.5	123	19	40	77-127	
N-Propylbenzene	20.0	23.7	118	18	40	68-149	
2-Chlorotoluene	20.0	23.5	118	16	40	77-134	
4-Chlorotoluene	20.0	22.1	111	13	40	71-137	
tert-Butylbenzene	20.0	23.5	117	26	40	72-144	
1,2,4-Trimethylbenzene	20.0	23.0	115	18	40	73-138	
sec-Butylbenzene	20.0	23.9	119	24	40	71-143	
4-Isopropyltoluene	20.0	23.9	119	24	40	71-142	
1,3-Dichlorobenzene	20.0	23.9	120	17	40	78-132	
1,4-Dichlorobenzene	20.0	23.8	119	17	40	77-123	
n-Butylbenzene	20.0	23.1	115	24	40	69-143	
1,2-Dichlorobenzene	20.0	23.8	119	15	40	78-126	
1,2-Dibromo-3-Chloropropane	20.0	23.1	116	11	40	75-129	
1,2,4-Trichlorobenzene	20.0	23.3	117	21	40	74-131	
Hexachlorobutadiene	20.0	21.2	106	32	36	65-150	
Naphthalene	20.0	23.5	117	14	40	64-136	
1,2,3-Trichlorobenzene	20.0	22.6	113	18	40	68-136	
1,3,5-Trimethylbenzene	20.0	23.3	116	19	40	72-142	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Solid Level: Low Lab File ID: 10142020\_005.D  
 Lab ID: LCSD 580-340822/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,2,4-Trimethylbenzene	20.0	17.8	89	11	40	73-138	
sec-Butylbenzene	20.0	18.4	92	12	40	71-143	
4-Isopropyltoluene	20.0	18.4	92	10	40	71-142	
n-Butylbenzene	20.0	18.0	90	11	40	69-143	

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 10072020\_007.D Lab Sample ID: MB 580-340245/1-A  
 Matrix: Solid Heated Purge: (Y/N) N  
 Instrument ID: TAC119 Date Analyzed: 10/07/2020 16:03  
 GC Column: 624SIL-MS ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-340245/2-A	10072020_00 4.D	10/07/2020 14:45
	LCSD 580-340245/3-A	10072020_00 5.D	10/07/2020 15:11
Trip-Blank-02	580-98033-5	10072020_00 8.D	10/07/2020 16:29
AB-01B-15.5	580-98033-1	10072020_01 0.D	10/07/2020 17:20
AB-02B-16.5	580-98033-2	10072020_01 1.D	10/07/2020 17:45
AB-03B-16.5	580-98033-3	10072020_01 2.D	10/07/2020 18:11
AB-04B-16.5	580-98033-4	10072020_01 3.D	10/07/2020 18:37

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
SDG No.: \_\_\_\_\_  
Lab File ID: 10142020\_007.D Lab Sample ID: MB 580-340822/1-A  
Matrix: Solid Heated Purge: (Y/N) N  
Instrument ID: TAC119 Date Analyzed: 10/14/2020 17:48  
GC Column: 624SIL-MS ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-340822/2-A	10142020_00 4.D	10/14/2020 16:31
	LCSD 580-340822/3-A	10142020_00 5.D	10/14/2020 16:57
AB-02B-16.5 RA	580-98033-2 RA	10142020_01 2.D	10/14/2020 19:57
AB-03B-16.5 RA	580-98033-3 RA	10142020_01 3.D	10/14/2020 20:23

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 10012020\_002.D BFB Injection Date: 10/01/2020  
 Instrument ID: TAC119 BFB Injection Time: 16:55  
 Analysis Batch No.: 339812

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	31.4	
75	30.0 - 60.0 % of mass 95	54.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	1.0	(1.3) 1
174	Greater than 50% of mass 95	75.3	
175	5.0 - 9.0 % of mass 174	6.1	(8.1) 1
176	95.0 - 101.0 % of mass 174	74.9	(99.5) 1
177	5.0 - 9.0 % of mass 176	5.2	(7.0) 2

1-Value is % mass 174

2-Value is % mass 176

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
	IC 580-339812/3	10012020_002z	10/01/2020	16:55
	IC 580-339812/4	10012020_003.	10/01/2020	17:21
	IC 580-339812/5	10012020_004.	10/01/2020	17:47
	IC 580-339812/6	10012020_005.	10/01/2020	18:13
	IC 580-339812/7	10012020_006.	10/01/2020	18:39
	ICIS 580-339812/8	10012020_007.	10/01/2020	19:04
	IC 580-339812/9	10012020_008.	10/01/2020	19:30
	IC 580-339812/10	10012020_009.	10/01/2020	19:56
	IC 580-339812/11	10012020_010.	10/01/2020	20:22
	ICV 580-339812/13	10012020_012.	10/01/2020	21:13

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: \_\_\_\_\_ BFB Injection Date: \_\_\_\_\_  
 Instrument ID: \_\_\_\_\_ BFB Injection Time: \_\_\_\_\_  
 Lab File ID: \_\_\_\_\_ DFTPP Injection Date: \_\_\_\_\_  
 Instrument ID: \_\_\_\_\_ DFTPP Injection Time: \_\_\_\_\_  
 Analysis Batch No.: \_\_\_\_\_

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE

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
	LCS 580-340245/2-A	10072020_004.	10/07/2020	14:45
	LCSD 580-340245/3-A	10072020_005.	10/07/2020	15:11
	CCVL 580-340383/6	10072020_006.	10/07/2020	15:37
	MB 580-340245/1-A	10072020_007.	10/07/2020	16:03
Trip-Blank-02	580-98033-5	10072020_008.	10/07/2020	16:29
AB-01B-15.5	580-98033-1	10072020_010.	10/07/2020	17:20
AB-02B-16.5	580-98033-2	10072020_011.	10/07/2020	17:45
AB-03B-16.5	580-98033-3	10072020_012.	10/07/2020	18:11
AB-04B-16.5	580-98033-4	10072020_013.	10/07/2020	18:37



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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 10072020\_002.D BFB Injection Date: 10/07/2020  
 Instrument ID: TAC119 BFB Injection Time: 13:54  
 Analysis Batch No.: 340383

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.5	
75	30.0 - 60.0 % of mass 95	49.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	1.4	(2.0) 1
174	Greater than 50% of mass 95	70.3	
175	5.0 - 9.0 % of mass 174	5.6	(8.0) 1
176	95.0 - 101.0 % of mass 174	68.7	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.0	(7.2) 2

1-Value is % mass 174

2-Value is % mass 176

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 580-340383/3	10072020_003.	10/07/2020	14:20

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 10142020\_002.D BFB Injection Date: 10/14/2020  
 Instrument ID: TAC119 BFB Injection Time: 15:40  
 Analysis Batch No.: 340807

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	27.0
75	30.0 - 60.0 % of mass 95	48.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.9
173	Less than 2.0 % of mass 174	0.4 (0.6) 1
174	Greater than 50% of mass 95	76.5
175	5.0 - 9.0 % of mass 174	5.2 (6.9) 1
176	95.0 - 101.0 % of mass 174	75.1 (98.2) 1
177	5.0 - 9.0 % of mass 176	5.3 (7.0) 2

1-Value is % mass 174

2-Value is % mass 176

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 580-340807/3	10142020_003.	10/14/2020	16:05
	LCS 580-340822/2-A	10142020_004.	10/14/2020	16:31
	LCSD 580-340822/3-A	10142020_005.	10/14/2020	16:57
	MB 580-340822/1-A	10142020_007.	10/14/2020	17:48
AB-02B-16.5 RA	580-98033-2 RA	10142020_012.	10/14/2020	19:57
AB-03B-16.5 RA	580-98033-3 RA	10142020_013.	10/14/2020	20:23

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 580-339812/8 Date Analyzed: 10/01/2020 19:04  
 Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm)  
 Lab File ID (Standard): 10012020\_007.D Heated Purge: (Y/N) N  
 Calibration ID: 29648

	TBA <sub>d</sub> 9		FB		CBN <sub>Z</sub> d <sub>5</sub>	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	41114	4.65	63501	8.59	50230	11.58
UPPER LIMIT		4.81		8.76		11.75
LOWER LIMIT		4.48		8.43		11.41
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-339812/13	39870	4.64	65082	8.59	52927	11.58

TBA<sub>d</sub>9 = TBA-d<sub>9</sub> (IS)

FB = Fluorobenzene (IS)

CBN<sub>Z</sub>d<sub>5</sub> = Chlorobenzene-d<sub>5</sub>

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.1666 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 580-339812/8 Date Analyzed: 10/01/2020 19:04  
 Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm)  
 Lab File ID (Standard): 10012020\_007.D Heated Purge: (Y/N) N  
 Calibration ID: 29648

	DCBd4		#	RT #	#	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	21564	13.49				
UPPER LIMIT		13.65				
LOWER LIMIT		13.32				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 580-339812/13		23139	13.49			

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.1666 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 580-340383/3 Date Analyzed: 10/07/2020 14:20  
 Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm)  
 Lab File ID (Standard): 10072020\_003.D Heated Purge: (Y/N) N  
 Calibration ID: 29648

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	68013	8.59	52951	11.58	22308	13.49	
UPPER LIMIT		8.76		11.75		13.66	
LOWER LIMIT		8.43		11.41		13.33	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 580-340245/2-A		74000	8.59	61793	11.58	26052	13.49
LCSD 580-340245/3-A		71034	8.59	56950	11.57	23703	13.49
CCVL 580-340383/6		68155	8.60	53467	11.58	22343	13.49
MB 580-340245/1-A		67080	8.59	52366	11.58	21121	13.49
580-98033-5	Trip-Blank-02	1240	8.60	915	11.58	544	13.49
580-98033-1	AB-01B-15.5	72787	8.60	58682	11.58	24489	13.49
580-98033-2	AB-02B-16.5	70848	8.60	55461	11.58	38234	13.49
580-98033-3	AB-03B-16.5	73127	8.59	57327	11.58	48298	13.50
580-98033-4	AB-04B-16.5	77457	8.59	61744	11.58	26890	13.49

FB = Fluorobenzene (IS)  
 CBNZd5 = Chlorobenzene-d5  
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.1666 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 580-340807/3 Date Analyzed: 10/14/2020 16:05  
 Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm)  
 Lab File ID (Standard): 10142020\_003.D Heated Purge: (Y/N) N  
 Calibration ID: 29648

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	77290	8.59	61260	11.58	24725	13.49	
UPPER LIMIT		8.76		11.75		13.66	
LOWER LIMIT		8.43		11.41		13.33	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 580-340822/2-A	81783	8.59	65068	11.58	27397	13.49	
LCSD 580-340822/3-A	78774	8.59	63813	11.58	26888	13.49	
MB 580-340822/1-A	69752	8.60	53574	11.58	21125	13.49	
580-98033-2 RA	AB-02B-16.5 RA	70646	8.60	58535	11.58	40974	13.49
580-98033-3 RA	AB-03B-16.5 RA	79286	8.60	64829	11.58	40174	13.49

FB = Fluorobenzene (IS)  
 CBNZd5 = Chlorobenzene-d5  
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.1666 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-01B-15.5 Lab Sample ID: 580-98033-1  
 Matrix: Solid Lab File ID: 10072020\_010.D  
 Analysis Method: 8260D Date Collected: 10/05/2020 12:05  
 Sample wt/vol: 4.771(g) Date Analyzed: 10/07/2020 17:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 22.2 Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	ND		2.7	
74-87-3	Chloromethane	ND		6.7	
75-01-4	Vinyl chloride	ND		2.7	
74-83-9	Bromomethane	ND		1.3	
75-00-3	Chloroethane	ND		13	
75-69-4	Trichlorofluoromethane	ND		2.7	
75-35-4	1,1-Dichloroethene	ND		6.7	
75-09-2	Methylene Chloride	ND		54	
1634-04-4	Methyl tert-butyl ether	ND		2.7	
156-60-5	trans-1,2-Dichloroethene	ND		2.7	
75-34-3	1,1-Dichloroethane	ND		1.3	
594-20-7	2,2-Dichloropropane	ND		6.7	
156-59-2	cis-1,2-Dichloroethene	ND		4.0	
74-97-5	Chlorobromomethane	ND		2.7	
67-66-3	Chloroform	ND		2.7	
71-55-6	1,1,1-Trichloroethane	ND		2.7	
56-23-5	Carbon tetrachloride	ND		2.7	
563-58-6	1,1-Dichloropropene	ND		2.7	
71-43-2	Benzene	ND		2.7	
107-06-2	1,2-Dichloroethane	ND		1.3	
79-01-6	Trichloroethene	ND		2.7	
78-87-5	1,2-Dichloropropane	ND		2.7	
74-95-3	Dibromomethane	ND		1.3	
75-27-4	Dichlorobromomethane	ND		1.3	
10061-01-5	cis-1,3-Dichloropropene	ND		1.3	
108-88-3	Toluene	ND		13	
10061-02-6	trans-1,3-Dichloropropene	ND		13	
79-00-5	1,1,2-Trichloroethane	ND	*	2.7	
127-18-4	Tetrachloroethene	ND		2.7	
142-28-9	1,3-Dichloropropane	ND	*	2.7	
124-48-1	Chlorodibromomethane	ND		2.0	
106-93-4	Ethylene Dibromide	ND		1.3	
108-90-7	Chlorobenzene	ND		2.7	
630-20-6	1,1,1,2-Tetrachloroethane	ND		4.0	
100-41-4	Ethylbenzene	ND		2.7	
179601-23-1	m-Xylene & p-Xylene	ND		13	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-01B-15.5 Lab Sample ID: 580-98033-1  
 Matrix: Solid Lab File ID: 10072020\_010.D  
 Analysis Method: 8260D Date Collected: 10/05/2020 12:05  
 Sample wt/vol: 4.771(g) Date Analyzed: 10/07/2020 17:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 22.2 Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	ND		6.7	
100-42-5	Styrene	ND		4.0	
75-25-2	Bromoform	ND		6.7	
98-82-8	Isopropylbenzene	ND		2.7	
108-86-1	Bromobenzene	ND		13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	*	5.4	
96-18-4	1,2,3-Trichloropropane	ND		6.7	
103-65-1	N-Propylbenzene	ND		6.7	
95-49-8	2-Chlorotoluene	ND		6.7	
106-43-4	4-Chlorotoluene	ND		6.7	
98-06-6	tert-Butylbenzene	ND		4.0	
95-63-6	1,2,4-Trimethylbenzene	ND		6.7	
135-98-8	sec-Butylbenzene	ND		4.0	
99-87-6	4-Isopropyltoluene	ND		2.7	
541-73-1	1,3-Dichlorobenzene	ND		6.7	
106-46-7	1,4-Dichlorobenzene	ND		6.7	
104-51-8	n-Butylbenzene	ND		4.0	
95-50-1	1,2-Dichlorobenzene	ND		13	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		13	
120-82-1	1,2,4-Trichlorobenzene	ND		2.7	
87-68-3	Hexachlorobutadiene	ND		4.0	
91-20-3	Naphthalene	ND		13	
87-61-6	1,2,3-Trichlorobenzene	ND		4.0	
108-67-8	1,3,5-Trimethylbenzene	ND		6.7	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		80-121
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_010.D  
 Lims ID: 580-98033-A-1-A  
 Client ID: AB-01B-15.5  
 Sample Type: Client  
 Inject. Date: 07-Oct-2020 17:20:30 ALS Bottle#: 10 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-1  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 10:36:39 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc Date: 09-Oct-2020 10:36:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
23 Methylene Chloride	84	4.550	4.538	0.012	76	4916	-0.0508	M
* 18 TBA-d9 (IS)	65	4.641	4.647	-0.006	0	48327	200.0	
40 Chloroform	83	7.513	7.507	0.006	1	698	0.1907	M
\$ 44 Dibromofluoromethane (Surr)	113	7.726	7.738	-0.012	54	18475	9.54	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	25163	9.54	
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	97	72787	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	71824	9.74	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	87	58682	10.0	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	84	20072	9.47	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	95	24489	10.0	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

5X SUR/IS\_00001 Amount Added: 1.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_010.D

Injection Date: 07-Oct-2020 17:20:30

Instrument ID: TAC119

Lims ID: 580-98033-A-1-A

Lab Sample ID: 580-98033-1

Client ID: AB-01B-15.5

Operator ID: jsm

ALS Bottle#: 10

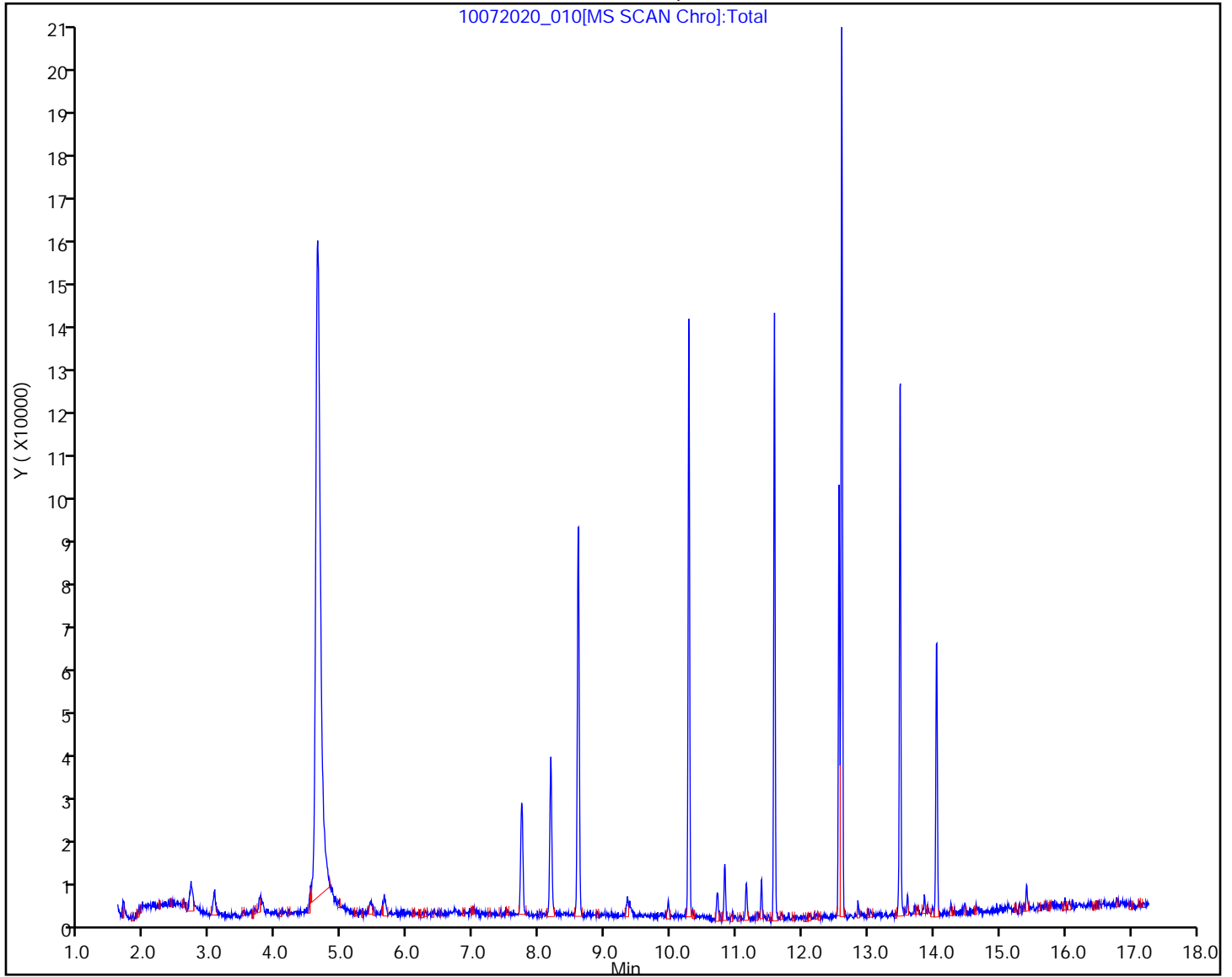
Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_010.D  
 Lims ID: 580-98033-A-1-A  
 Client ID: AB-01B-15.5  
 Sample Type: Client  
 Inject. Date: 07-Oct-2020 17:20:30 ALS Bottle#: 10 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-1  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 10:36:39 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc

Date: 09-Oct-2020 10:36:39

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	9.54	95.40
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	9.54	95.38
\$ 64 Trifluorotoluene (Surr)	0.0	0	0.00
\$ 72 Toluene-d8 (Surr)	10.0	9.74	97.36
\$ 92 4-Bromofluorobenzene (Surr)	10.0	9.47	94.66
\$ 118 BFB	0.0	0	0.00

Eurofins TestAmerica, Seattle

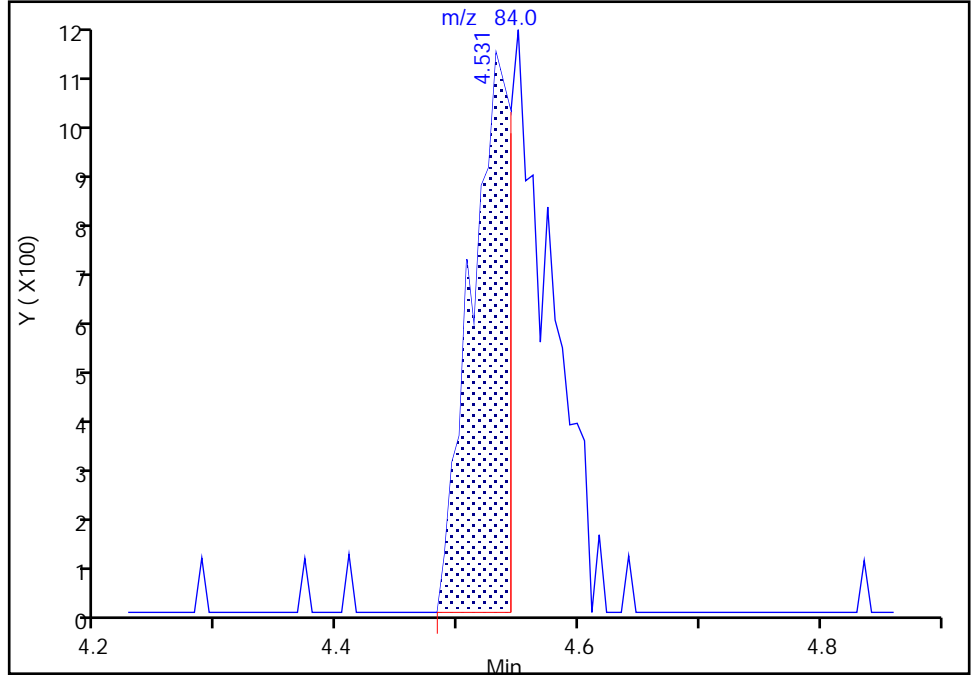
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Injection Date: 07-Oct-2020 17:20:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-1-A Lab Sample ID: 580-98033-1  
Client ID: AB-01B-15.5  
Operator ID: jsm ALS Bottle#: 10 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

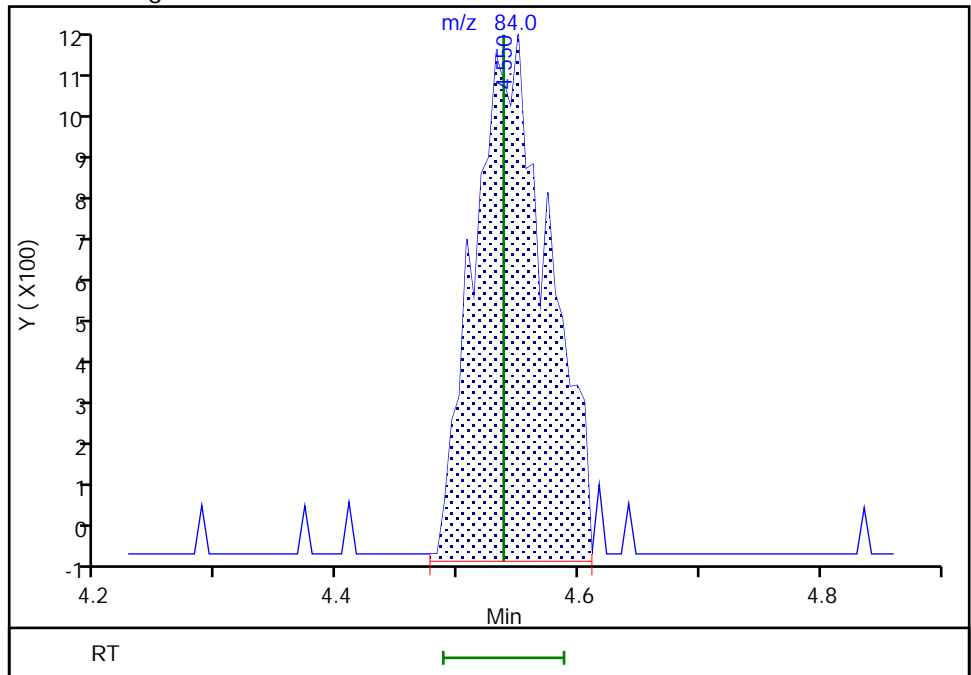
RT: 4.53  
Area: 2480  
Amount: -1.797869  
Amount Units: ug/L

Processing Integration Results



RT: 4.55  
Area: 4916  
Amount: -0.050825  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:36:02  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

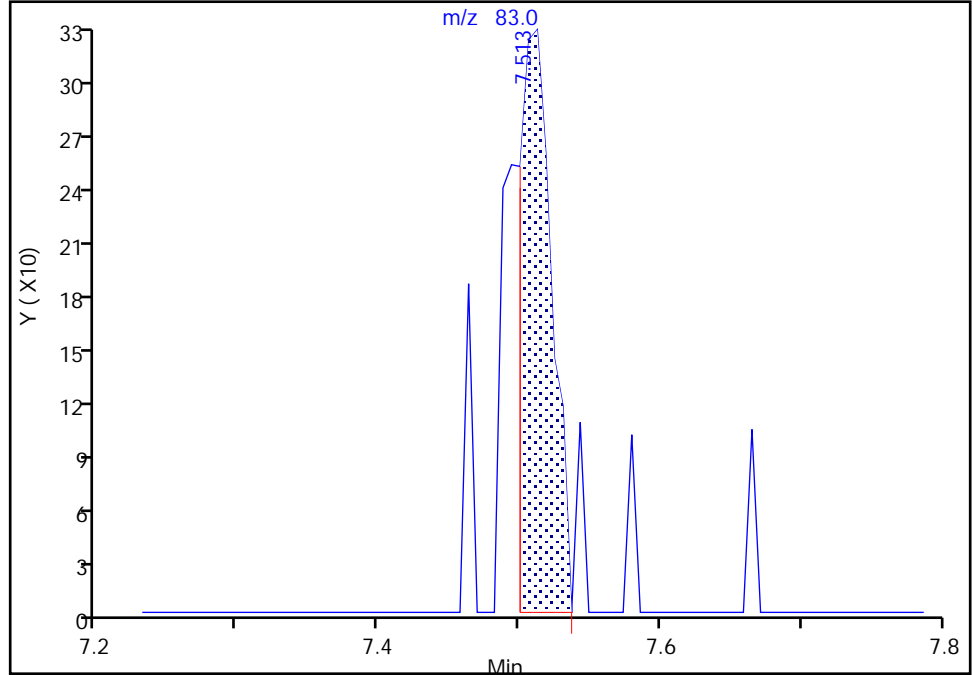
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_010.D  
Injection Date: 07-Oct-2020 17:20:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-1-A Lab Sample ID: 580-98033-1  
Client ID: AB-01B-15.5  
Operator ID: jsm ALS Bottle#: 10 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

40 Chloroform, CAS: 67-66-3

Signal: 1

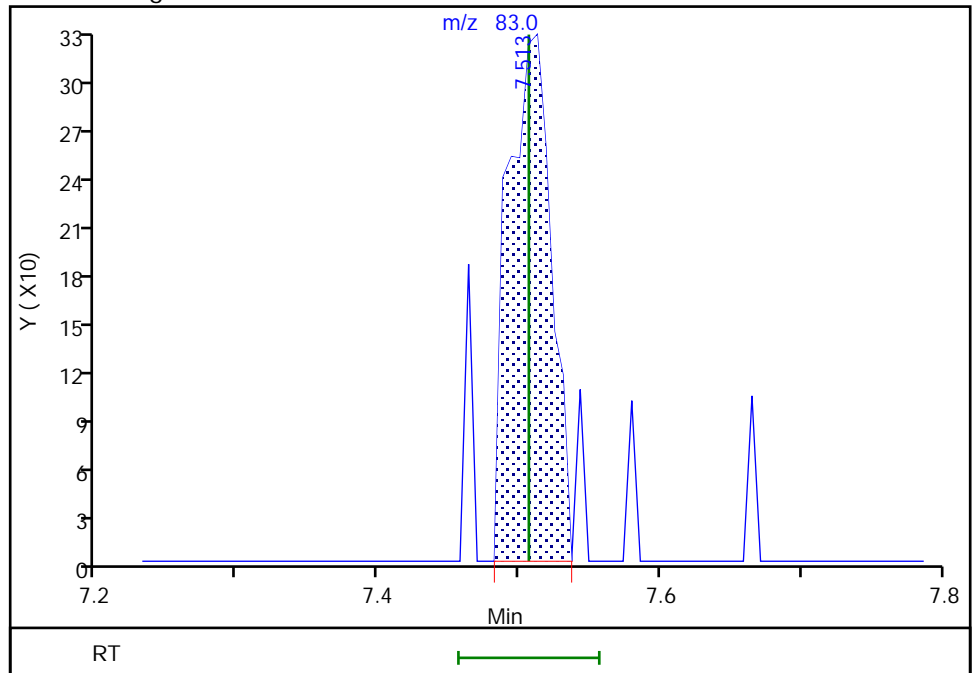
RT: 7.51  
Area: 519  
Amount: 0.141799  
Amount Units: ug/L

Processing Integration Results



RT: 7.51  
Area: 698  
Amount: 0.190705  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:36:13  
Audit Action: Manually Integrated

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-02B-16.5 Lab Sample ID: 580-98033-2  
 Matrix: Solid Lab File ID: 10072020\_011.D  
 Analysis Method: 8260D Date Collected: 10/05/2020 12:35  
 Sample wt/vol: 6.408(g) Date Analyzed: 10/07/2020 17:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 22.7 Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	ND		2.0	
74-87-3	Chloromethane	ND		5.0	
75-01-4	Vinyl chloride	ND		2.0	
74-83-9	Bromomethane	ND		1.0	
75-00-3	Chloroethane	ND		10	
75-69-4	Trichlorofluoromethane	ND		2.0	
75-35-4	1,1-Dichloroethene	ND		5.0	
75-09-2	Methylene Chloride	ND		40	
1634-04-4	Methyl tert-butyl ether	ND		2.0	
156-60-5	trans-1,2-Dichloroethene	ND		2.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
594-20-7	2,2-Dichloropropane	ND		5.0	
156-59-2	cis-1,2-Dichloroethene	ND		3.0	
74-97-5	Chlorobromomethane	ND		2.0	
67-66-3	Chloroform	ND		2.0	
71-55-6	1,1,1-Trichloroethane	ND		2.0	
56-23-5	Carbon tetrachloride	ND		2.0	
563-58-6	1,1-Dichloropropene	ND		2.0	
71-43-2	Benzene	ND		2.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		2.0	
78-87-5	1,2-Dichloropropane	ND		2.0	
74-95-3	Dibromomethane	ND		1.0	
75-27-4	Dichlorobromomethane	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
108-88-3	Toluene	ND		10	
10061-02-6	trans-1,3-Dichloropropene	ND		10	
79-00-5	1,1,2-Trichloroethane	ND	*	2.0	
127-18-4	Tetrachloroethene	ND		2.0	
142-28-9	1,3-Dichloropropane	ND	*	2.0	
124-48-1	Chlorodibromomethane	ND		1.5	
106-93-4	Ethylene Dibromide	ND		1.0	
108-90-7	Chlorobenzene	ND		2.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND		3.0	
100-41-4	Ethylbenzene	ND		2.0	
179601-23-1	m-Xylene & p-Xylene	ND		10	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-02B-16.5 Lab Sample ID: 580-98033-2  
 Matrix: Solid Lab File ID: 10072020\_011.D  
 Analysis Method: 8260D Date Collected: 10/05/2020 12:35  
 Sample wt/vol: 6.408(g) Date Analyzed: 10/07/2020 17:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 22.7 Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	10		5.0	
100-42-5	Styrene	ND		3.0	
75-25-2	Bromoform	ND		5.0	
98-82-8	Isopropylbenzene	ND		2.0	
108-86-1	Bromobenzene	ND		10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	*	4.0	
96-18-4	1,2,3-Trichloropropane	ND		5.0	
103-65-1	N-Propylbenzene	ND		5.0	
95-49-8	2-Chlorotoluene	ND		5.0	
106-43-4	4-Chlorotoluene	ND		5.0	
98-06-6	tert-Butylbenzene	ND		3.0	
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	
99-87-6	4-Isopropyltoluene	ND		2.0	
541-73-1	1,3-Dichlorobenzene	ND		5.0	
106-46-7	1,4-Dichlorobenzene	ND		5.0	
95-50-1	1,2-Dichlorobenzene	ND		10	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	
87-68-3	Hexachlorobutadiene	ND		3.0	
91-20-3	Naphthalene	ND		10	
87-61-6	1,2,3-Trichlorobenzene	ND		3.0	
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	119		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		80-121
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
 Lims ID: 580-98033-A-2-A  
 Client ID: AB-02B-16.5  
 Sample Type: Client  
 Inject. Date: 07-Oct-2020 17:45:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-2  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 11:07:23 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc

Date: 09-Oct-2020 11:07:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
23 Methylene Chloride	84	4.532	4.538	-0.006	59	2400	-1.81	7M
* 18 TBA-d9 (IS)	65	4.641	4.647	-0.006	0	44395	200.0	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	67	1799	0.9010	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.738	-0.006	70	18615	9.87	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	23974	9.34	
53 Benzene	78	8.202	8.195	0.007	1	245	0.0327	
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	97	70848	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	68	82947	11.9	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	34	55461	10.0	
88 o-Xylene	91	12.085	12.115	-0.030	45	73162	10.1	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.567	12.560	0.007	18	19128	9.54	
98 tert-Butylbenzene	119	13.152	13.152	0.000	1	30473	2.84	
100 sec-Butylbenzene	105	13.329	13.323	0.007	61	308706	20.4	a
105 4-Isopropyltoluene	119	13.444	13.444	0.000	1	17945	1.43	a
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	33	38234	10.0	M
108 n-Butylbenzene	134	13.755	13.761	-0.006	9	9782	3.16	M

## QC Flag Legend

## Processing Flags

7 - Failed Limit of Detection

## Review Flags

M - Manually Integrated

a - User Assigned ID

## Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D

Injection Date: 07-Oct-2020 17:45:30

Instrument ID: TAC119

Lims ID: 580-98033-A-2-A

Lab Sample ID: 580-98033-2

Client ID: AB-02B-16.5

Operator ID: jsm

ALS Bottle#: 11

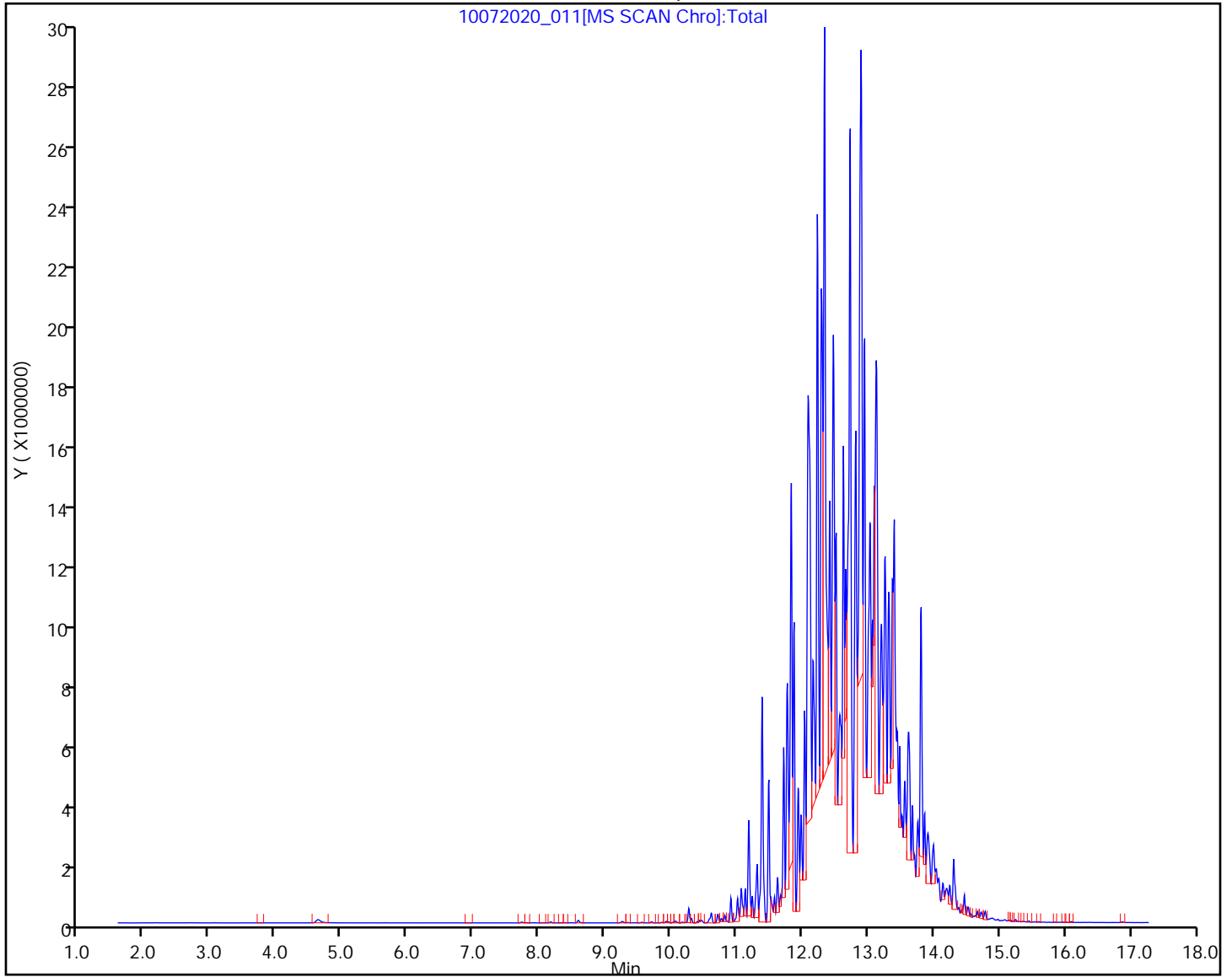
Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
 Lims ID: 580-98033-A-2-A  
 Client ID: AB-02B-16.5  
 Sample Type: Client  
 Inject. Date: 07-Oct-2020 17:45:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-2  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 11:07:23 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc Date: 09-Oct-2020 11:07:23

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	9.87	98.75
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	9.34	93.36
\$ 64 Trifluorotoluene (Surr)	0.0	0	0.00
\$ 72 Toluene-d8 (Surr)	10.0	11.9	118.97
\$ 92 4-Bromofluorobenzene (Surr)	10.0	9.54	95.45
\$ 118 BFB	0.0	0	0.00

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D

Injection Date: 07-Oct-2020 17:45:30

Instrument ID: TAC119

Lims ID: 580-98033-A-2-A

Lab Sample ID: 580-98033-2

Client ID: AB-02B-16.5

Operator ID: jsm

ALS Bottle#: 11

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

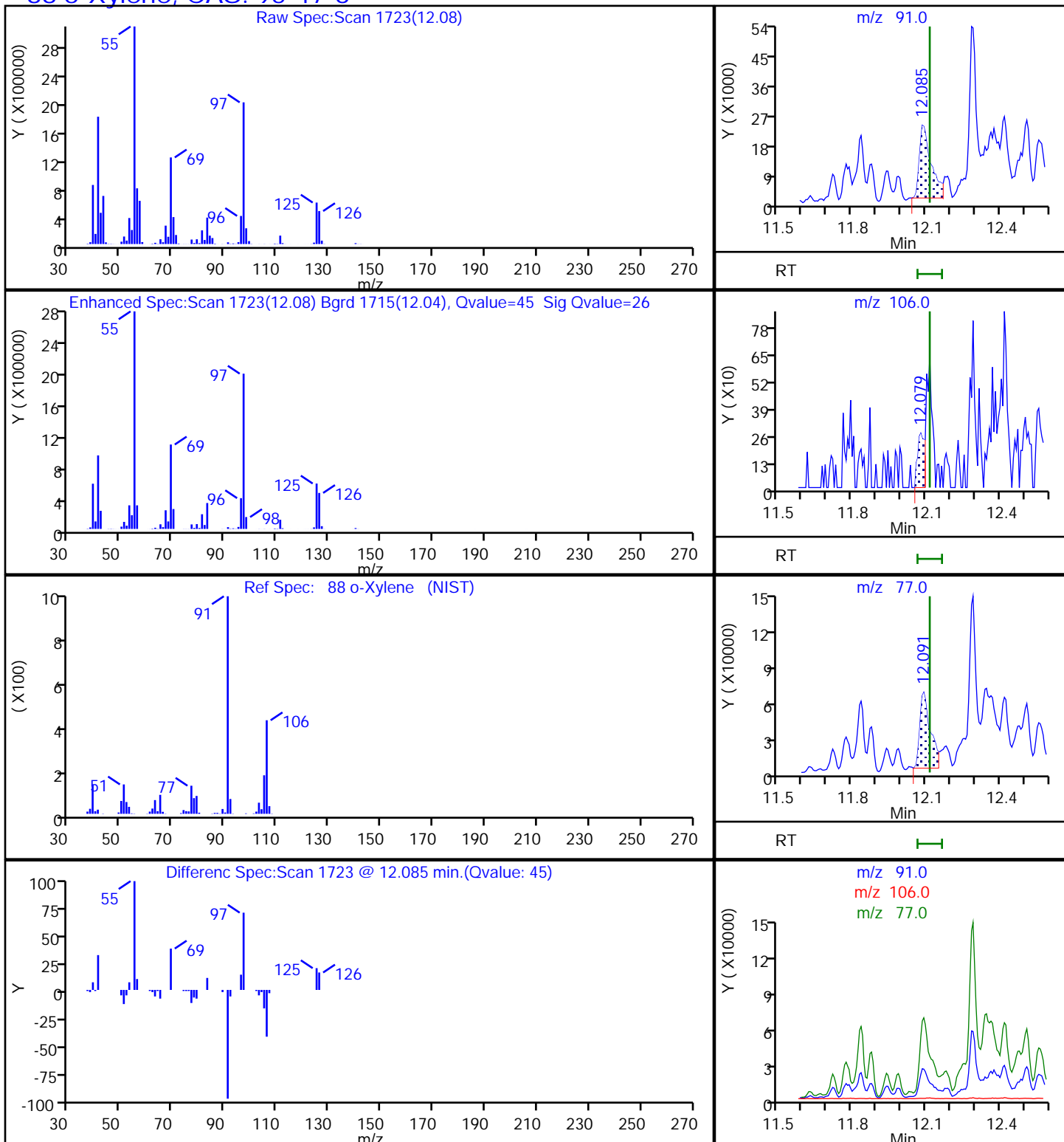
Method: DSS TAC119

Limit Group: 8260C

Column:

Detector MS SCAN

88 o-Xylene, CAS: 95-47-6



Eurofins TestAmerica, Seattle

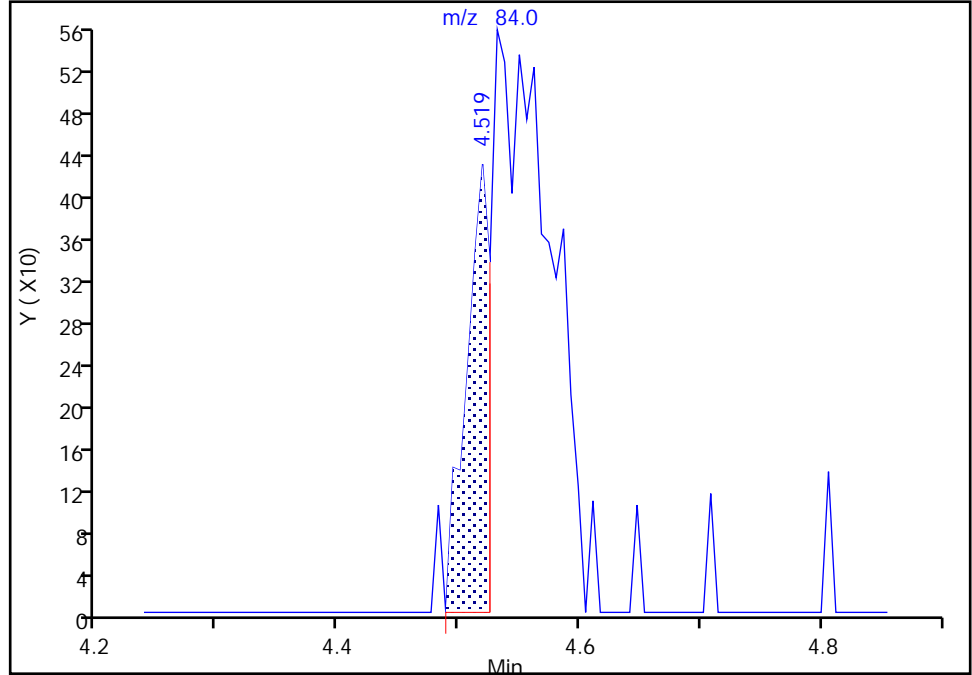
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
Injection Date: 07-Oct-2020 17:45:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-2-A Lab Sample ID: 580-98033-2  
Client ID: AB-02B-16.5  
Operator ID: jsm ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

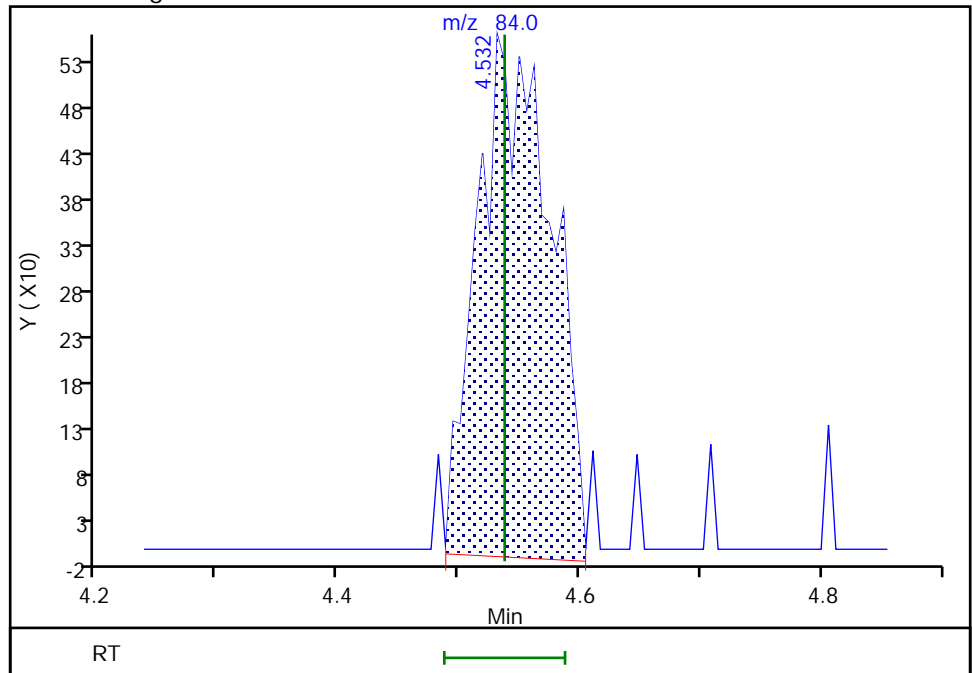
RT: 4.52  
Area: 594  
Amount: -3.138807  
Amount Units: ug/L

Processing Integration Results



RT: 4.53  
Area: 2400  
Amount: -1.808136  
Amount Units: ug/L

Manual Integration Results



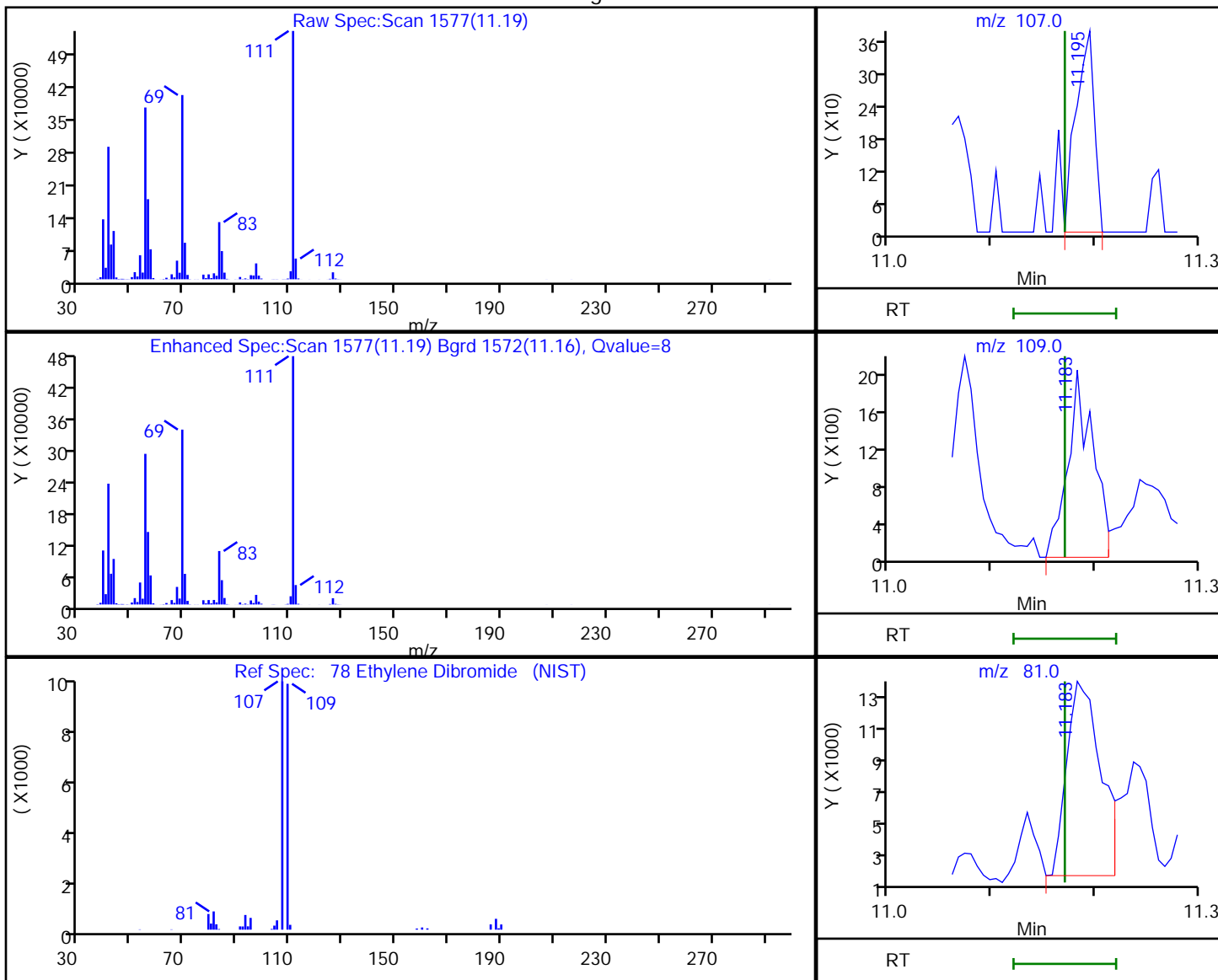
Reviewer: jantanuc, 09-Oct-2020 10:50:53  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
 Injection Date: 07-Oct-2020 17:45:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-2-A Lab Sample ID: 580-98033-2  
 Client ID: AB-02B-16.5  
 Operator ID: jsm ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

78 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
11.19	107.00	470	0.141059
11.18	109.00	3484	
11.18	81.00	28997	

Reviewer: jantanuc, 09-Oct-2020 10:51:15  
 Audit Action: Marked Compound Undetected

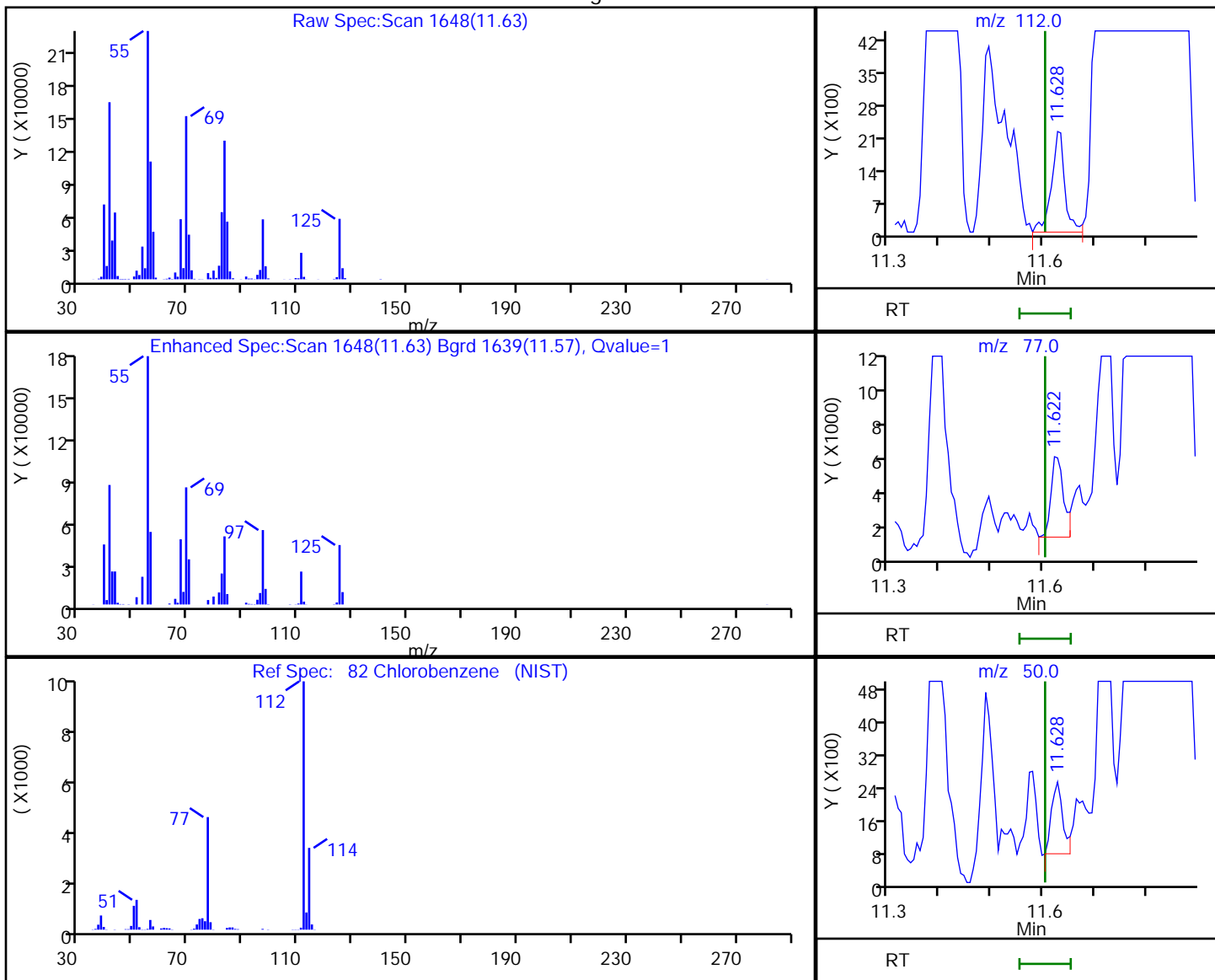
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
 Injection Date: 07-Oct-2020 17:45:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-2-A Lab Sample ID: 580-98033-2  
 Client ID: AB-02B-16.5  
 Operator ID: jsm ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

82 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
11.63	112.00	3964	0.738249
11.62	77.00	7748	
11.63	50.00	2715	

Reviewer: jantanuc, 09-Oct-2020 10:51:18  
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D

Injection Date: 07-Oct-2020 17:45:30

Instrument ID: TAC119

Lims ID: 580-98033-A-2-A

Lab Sample ID: 580-98033-2

Client ID: AB-02B-16.5

Operator ID: jsm

ALS Bottle#: 11

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

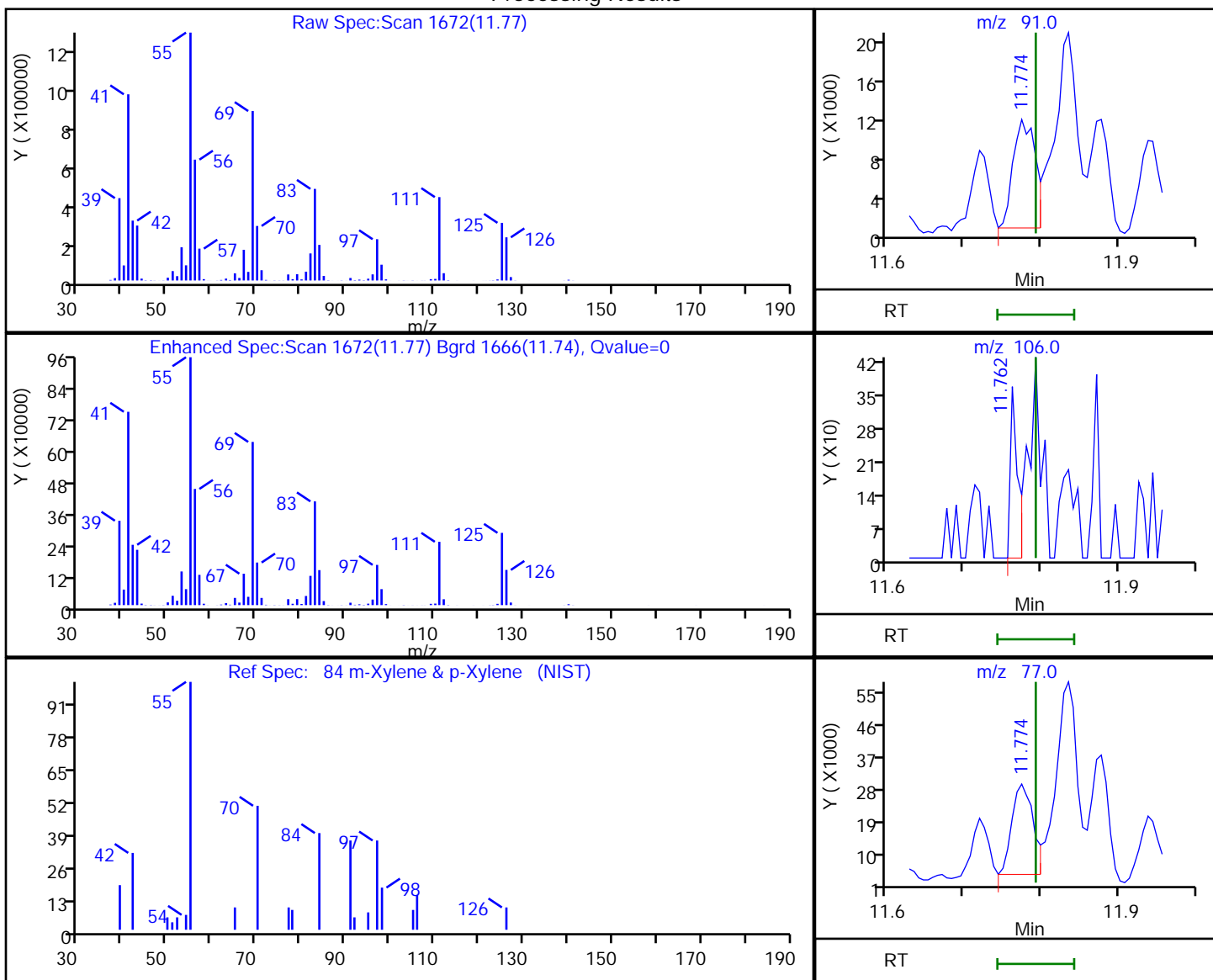
Limit Group: 8260C

Column:

Detector: MS SCAN

84 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
11.77	91.00	21875	2.801179
11.76	106.00	245	
11.77	77.00	48108	

Reviewer: jantanuc, 09-Oct-2020 10:51:24

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D

Injection Date: 07-Oct-2020 17:45:30

Instrument ID: TAC119

Lims ID: 580-98033-A-2-A

Lab Sample ID: 580-98033-2

Client ID: AB-02B-16.5

Operator ID: jsm

ALS Bottle#: 11

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

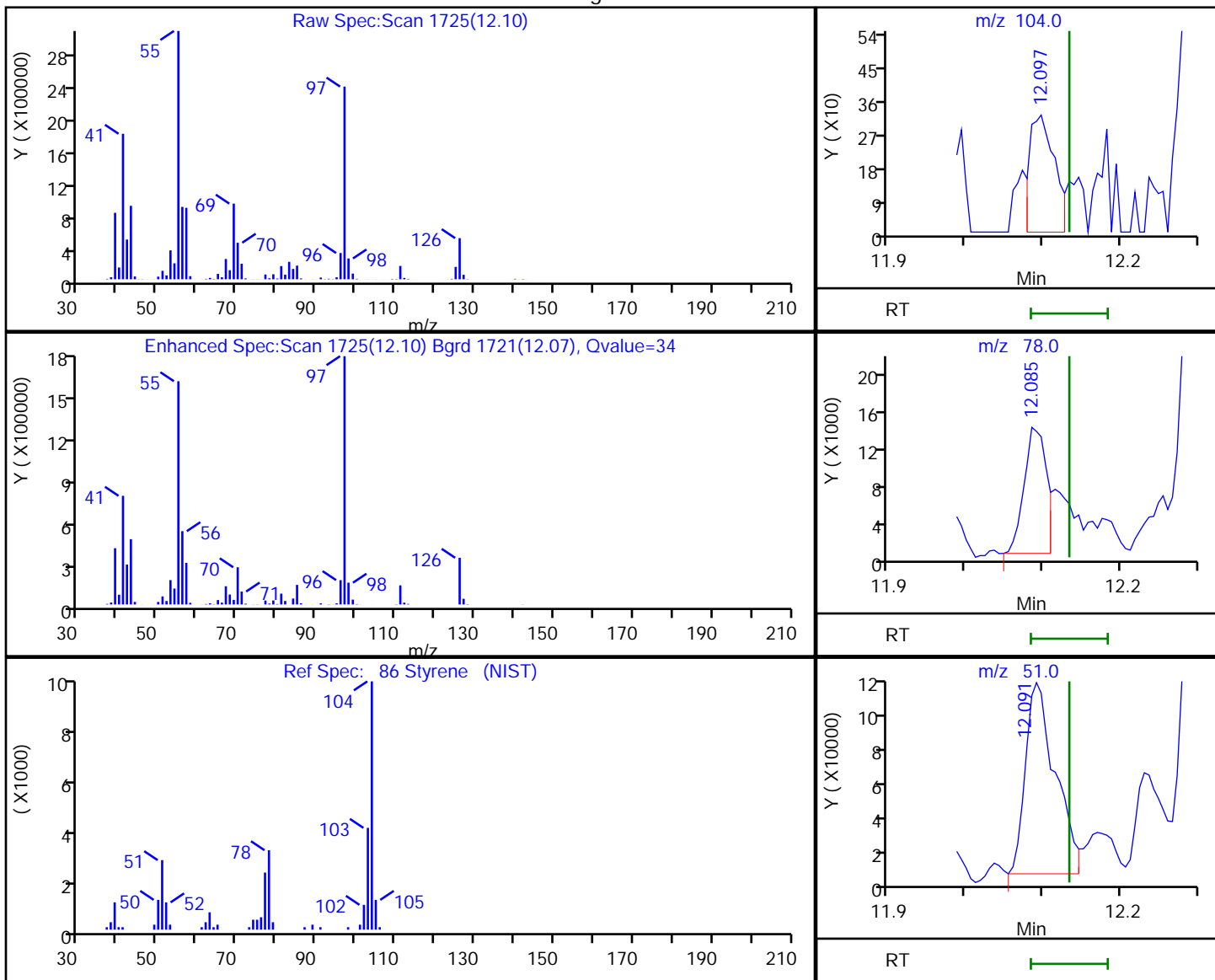
Limit Group: 8260C

Column:

Detector: MS SCAN

86 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
12.10	104.00	722	0.138755
12.08	78.00	26351	
12.09	51.00	272963	

Reviewer: jantanuc, 09-Oct-2020 10:53:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

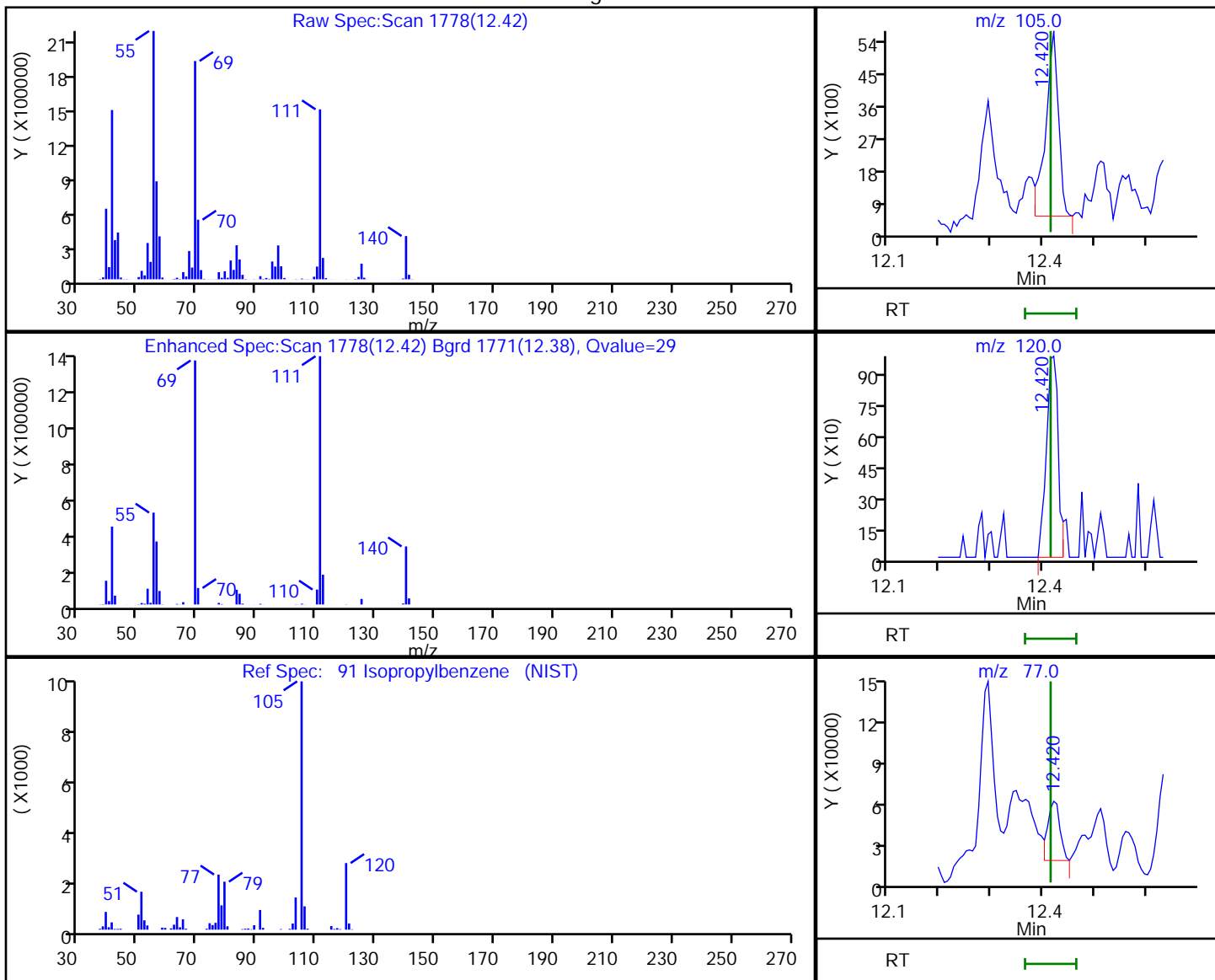


Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
 Injection Date: 07-Oct-2020 17:45:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-2-A Lab Sample ID: 580-98033-2  
 Client ID: AB-02B-16.5  
 Operator ID: jsm ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

91 Isopropylbenzene, CAS: 98-82-8

Processing Results



RT	Mass	Response	Amount
12.42	105.00	8937	1.012389
12.42	120.00	1574	
12.42	77.00	65896	

Reviewer: jantanuc, 09-Oct-2020 10:53:35

Audit Action: Marked Compound Undetected

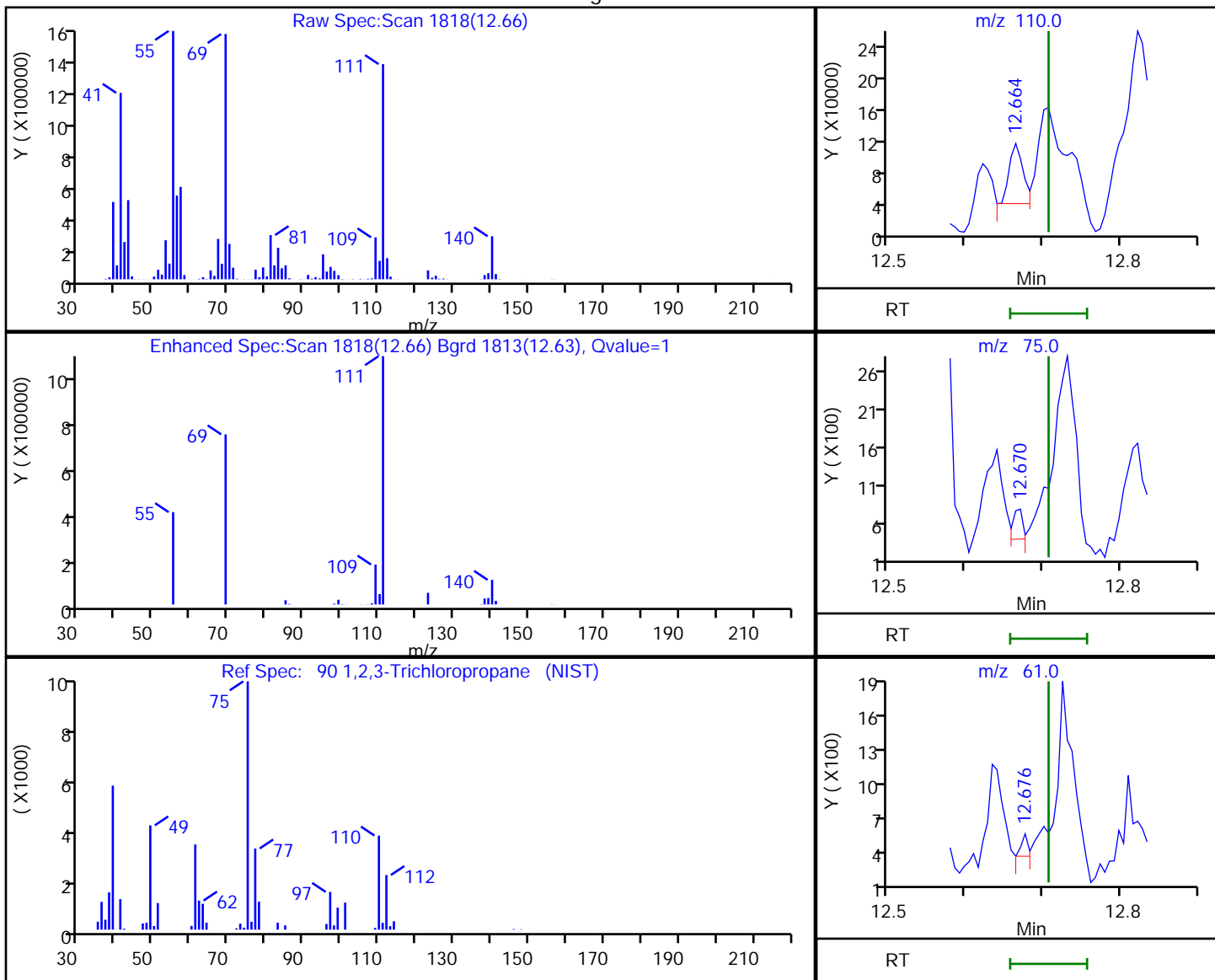
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
 Injection Date: 07-Oct-2020 17:45:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-2-A Lab Sample ID: 580-98033-2  
 Client ID: AB-02B-16.5  
 Operator ID: jsm ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

90 1,2,3-Trichloropropane, CAS: 96-18-4

Processing Results



RT	Mass	Response	Amount
12.66	110.00	91233	74.638271
12.67	75.00	337	
12.68	61.00	116	

Reviewer: jantanuc, 09-Oct-2020 10:53:48

Audit Action: Marked Compound Undetected

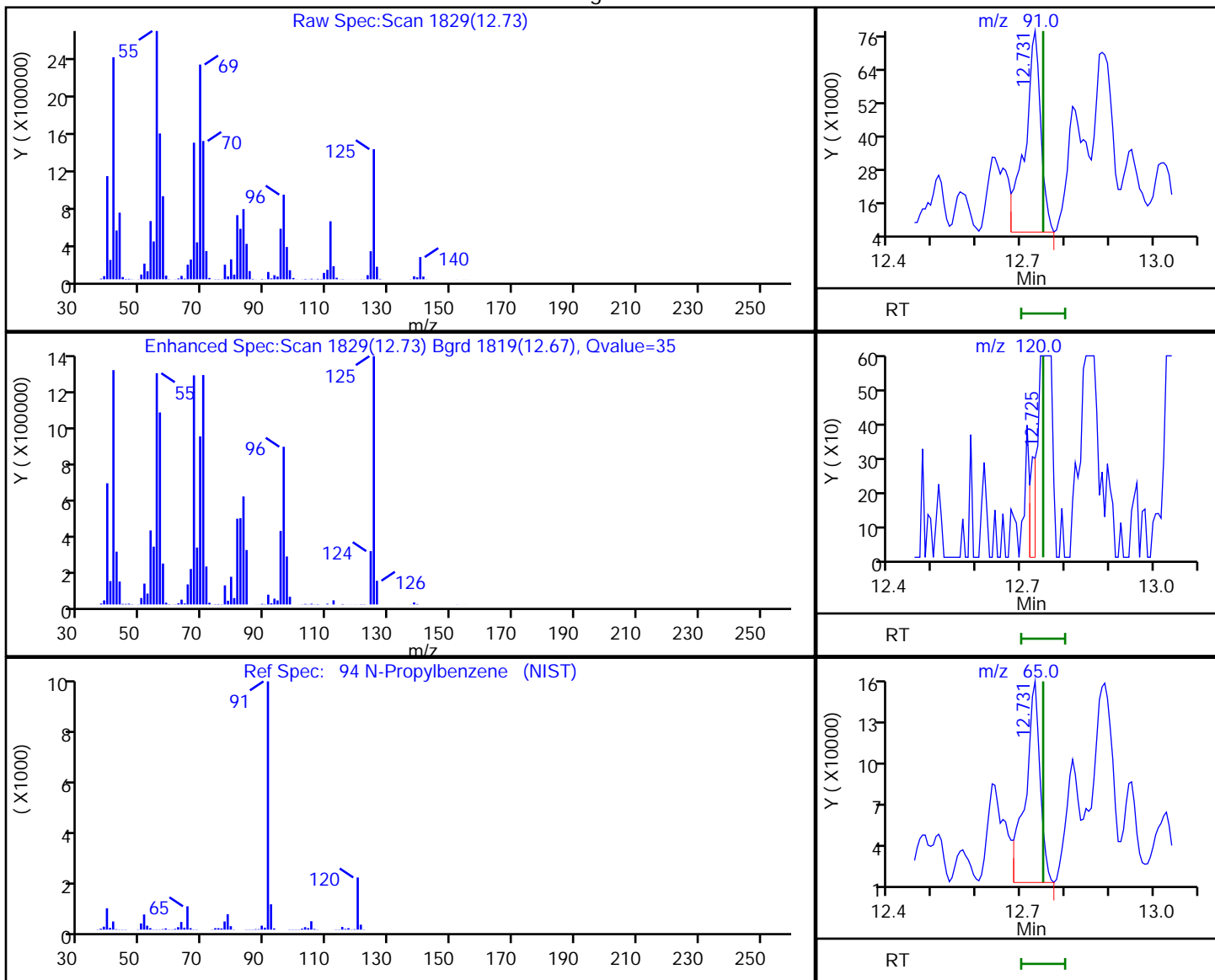
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
 Injection Date: 07-Oct-2020 17:45:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-2-A Lab Sample ID: 580-98033-2  
 Client ID: AB-02B-16.5  
 Operator ID: jsm ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

94 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
12.73	91.00	180999	8.497641
12.73	120.00	292	
12.73	65.00	329526	

Reviewer: jantanuc, 09-Oct-2020 10:54:29

Audit Action: Marked Compound Undetected

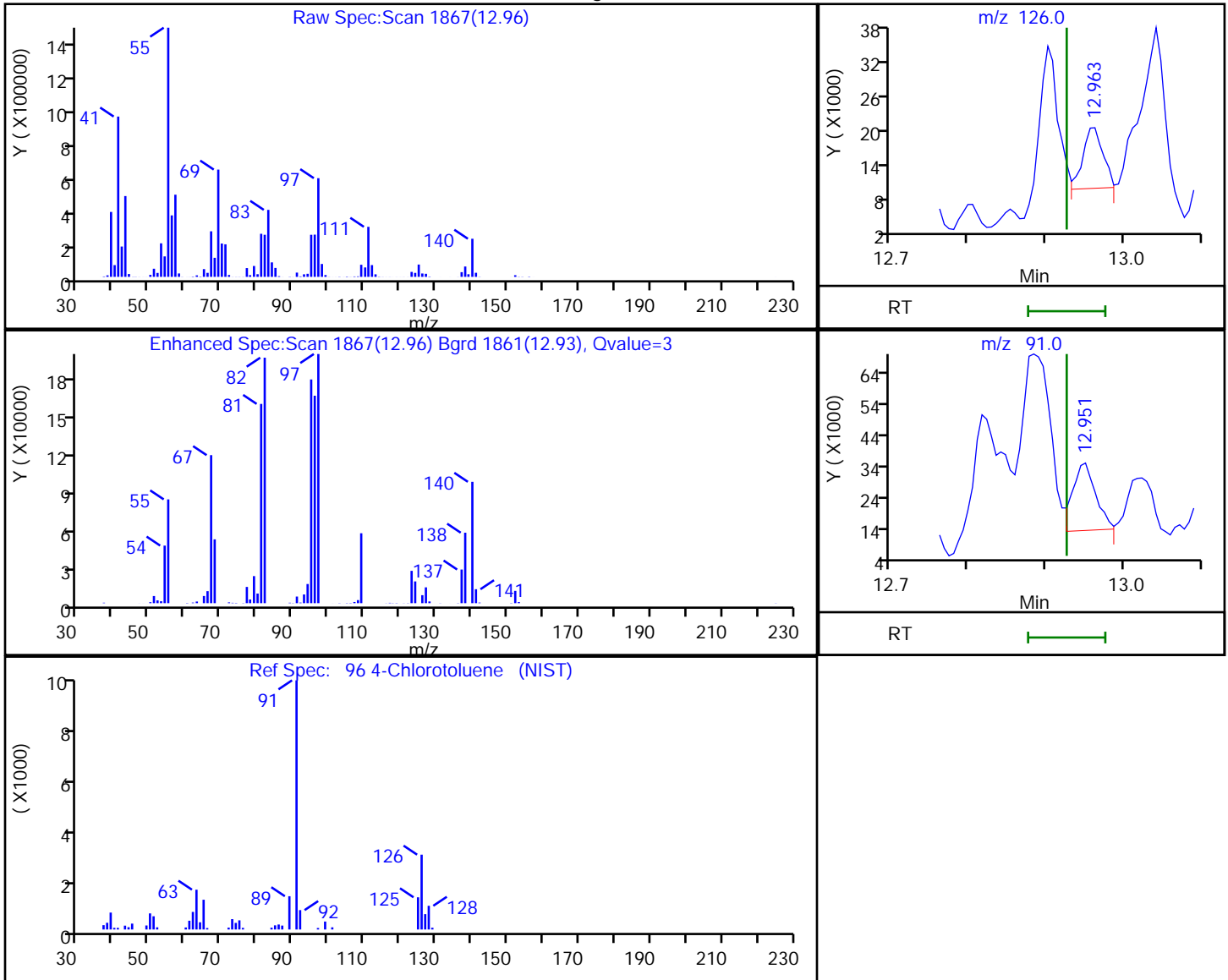
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
 Injection Date: 07-Oct-2020 17:45:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-2-A Lab Sample ID: 580-98033-2  
 Client ID: AB-02B-16.5  
 Operator ID: jsm ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

96 4-Chlorotoluene, CAS: 106-43-4

Processing Results



RT	Mass	Response	Amount
12.96	126.00	19643	4.398748
12.95	91.00	45367	

Reviewer: jantanuc, 09-Oct-2020 10:54:48

Audit Action: Marked Compound Undetected

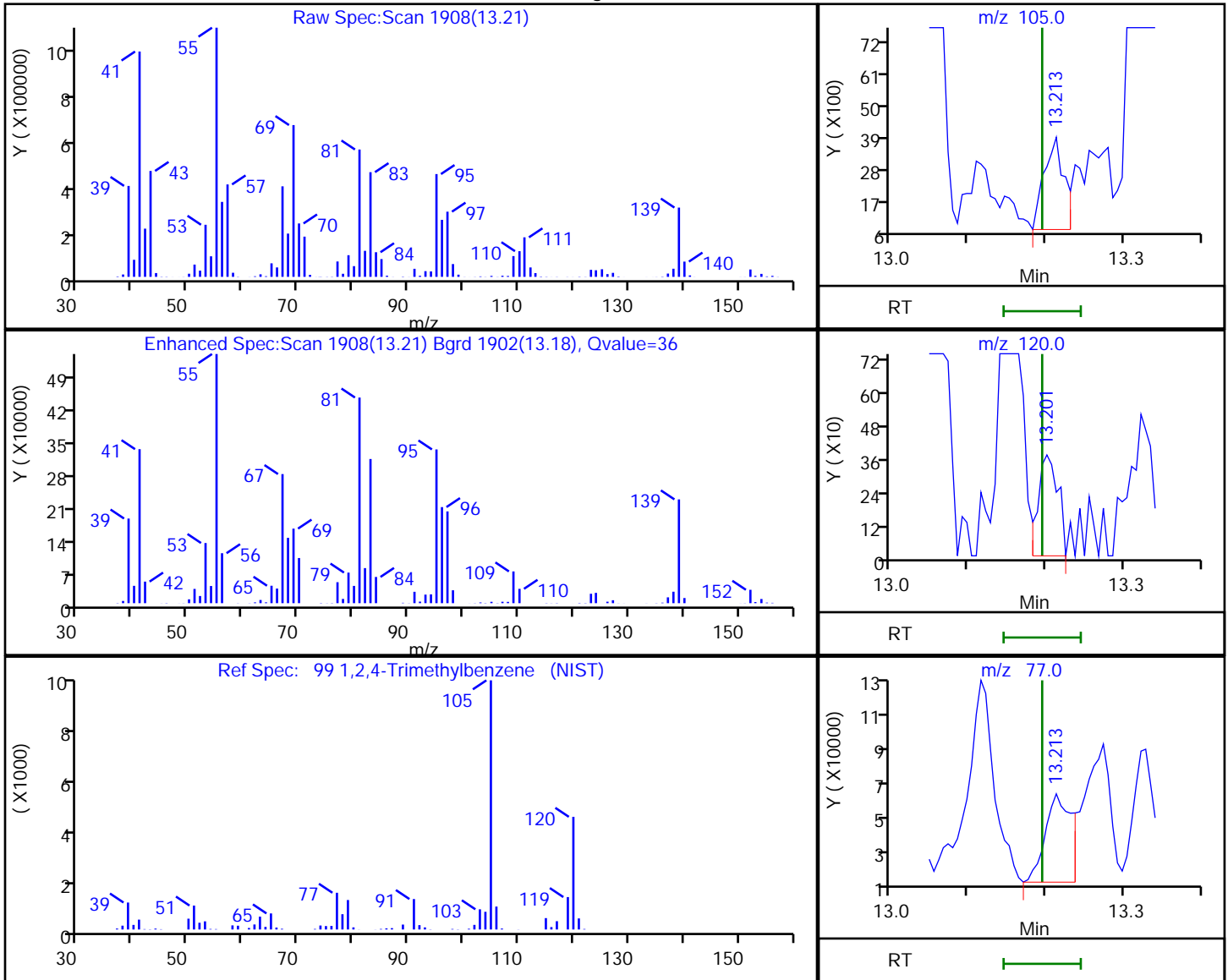
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
 Injection Date: 07-Oct-2020 17:45:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-2-A Lab Sample ID: 580-98033-2  
 Client ID: AB-02B-16.5  
 Operator ID: jsm ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

99 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
13.21	105.00	5814	0.378147
13.20	120.00	658	
13.21	77.00	109956	

Reviewer: jantanuc, 09-Oct-2020 10:54:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

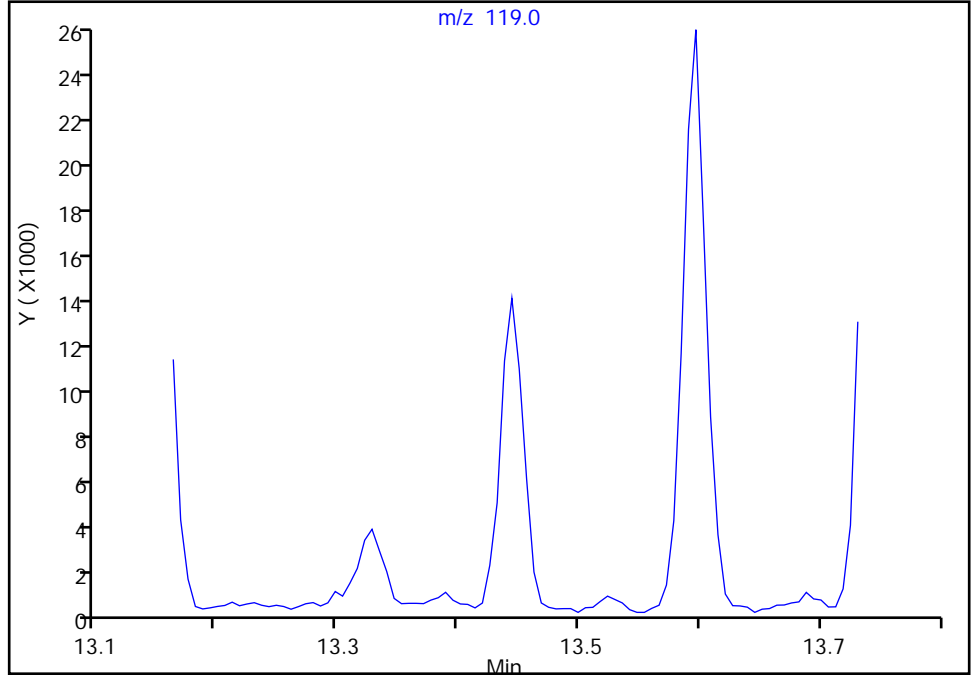
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
Injection Date: 07-Oct-2020 17:45:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-2-A Lab Sample ID: 580-98033-2  
Client ID: AB-02B-16.5  
Operator ID: jsm ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

105 4-Isopropyltoluene, CAS: 99-87-6

Signal: 1

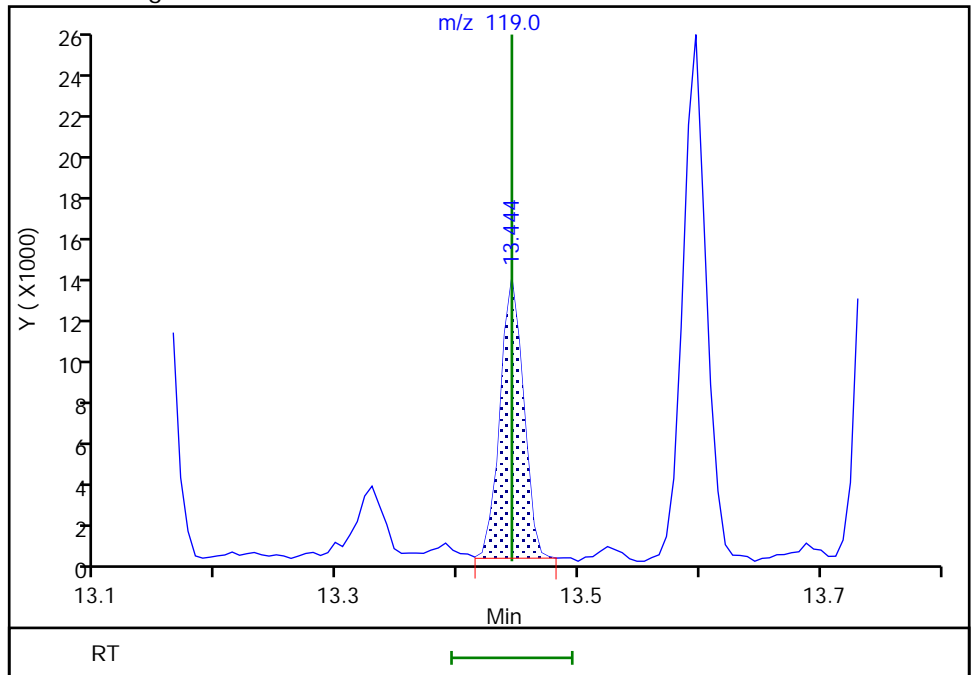
Not Detected  
Expected RT: 13.44

Processing Integration Results



Manual Integration Results

RT: 13.44  
Area: 17945  
Amount: 1.433253  
Amount Units: ug/L



Reviewer: jantanuc, 09-Oct-2020 10:55:43  
Audit Action: Assigned Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D

Injection Date: 07-Oct-2020 17:45:30

Instrument ID: TAC119

Lims ID: 580-98033-A-2-A

Lab Sample ID: 580-98033-2

Client ID: AB-02B-16.5

Operator ID: jsm

ALS Bottle#: 11

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

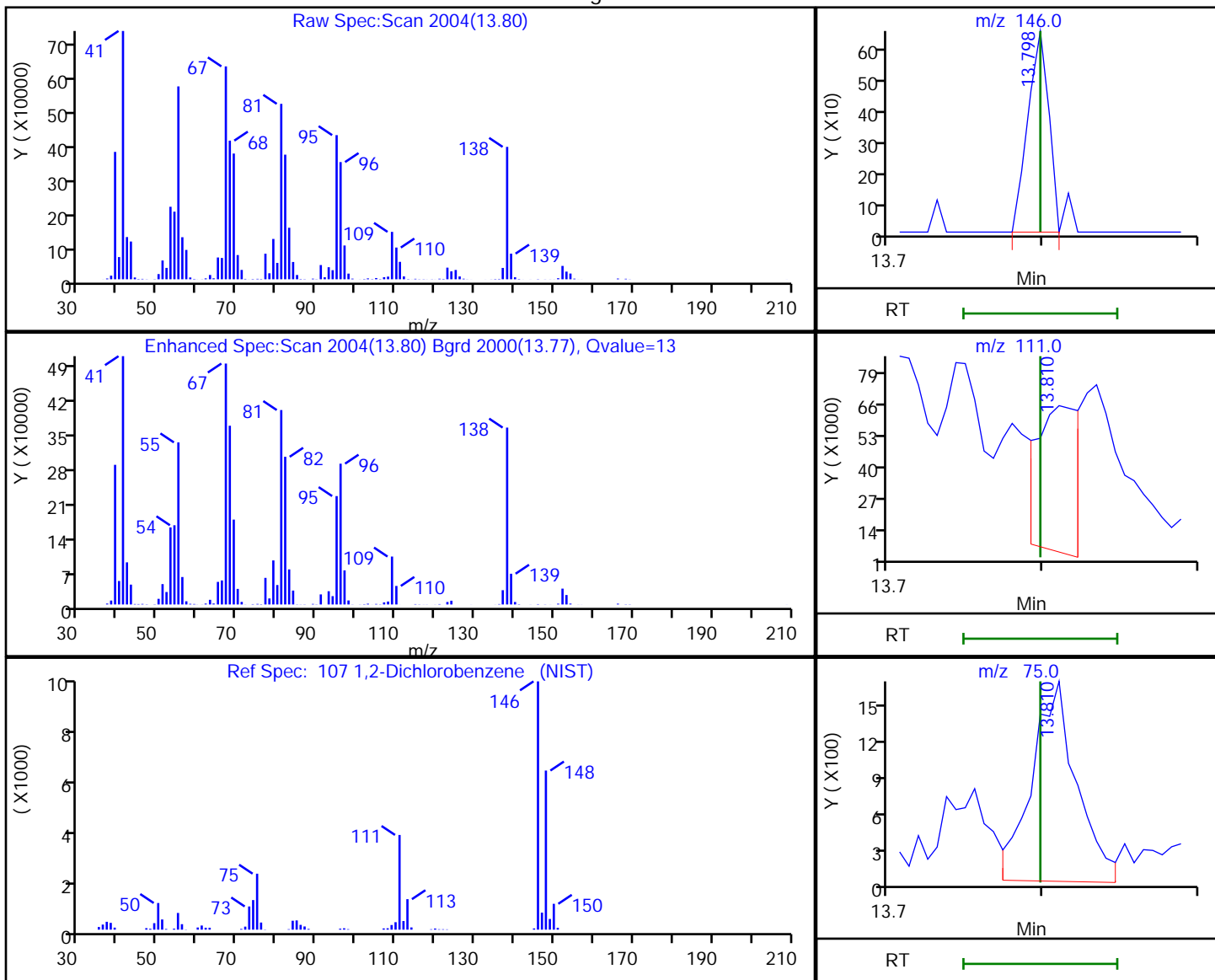
Limit Group: 8260C

Column:

Detector: MS SCAN

107 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
13.80	146.00	619	0.109282
13.81	111.00	120212	
13.81	75.00	3263	

Reviewer: jantanuc, 09-Oct-2020 11:06:57

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D

Injection Date: 07-Oct-2020 17:45:30

Instrument ID: TAC119

Lims ID: 580-98033-A-2-A

Lab Sample ID: 580-98033-2

Client ID: AB-02B-16.5

Operator ID: jsm

ALS Bottle#: 11

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

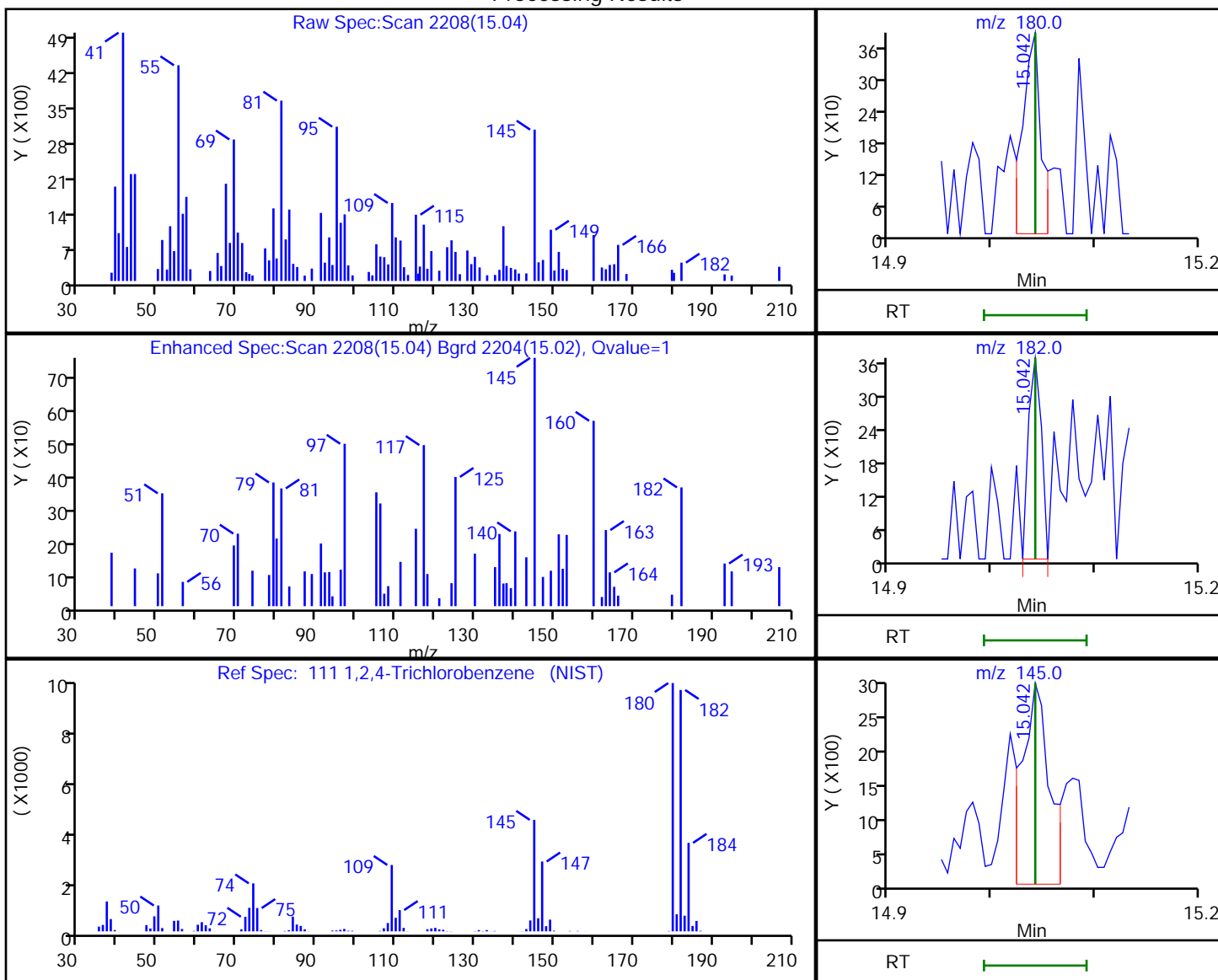
Limit Group: 8260C

Column:

Detector: MS SCAN

111 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
15.04	180.00	480	0.130121
15.04	182.00	315	
15.04	145.00	5568	

Reviewer: jantanuc, 09-Oct-2020 11:07:08

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

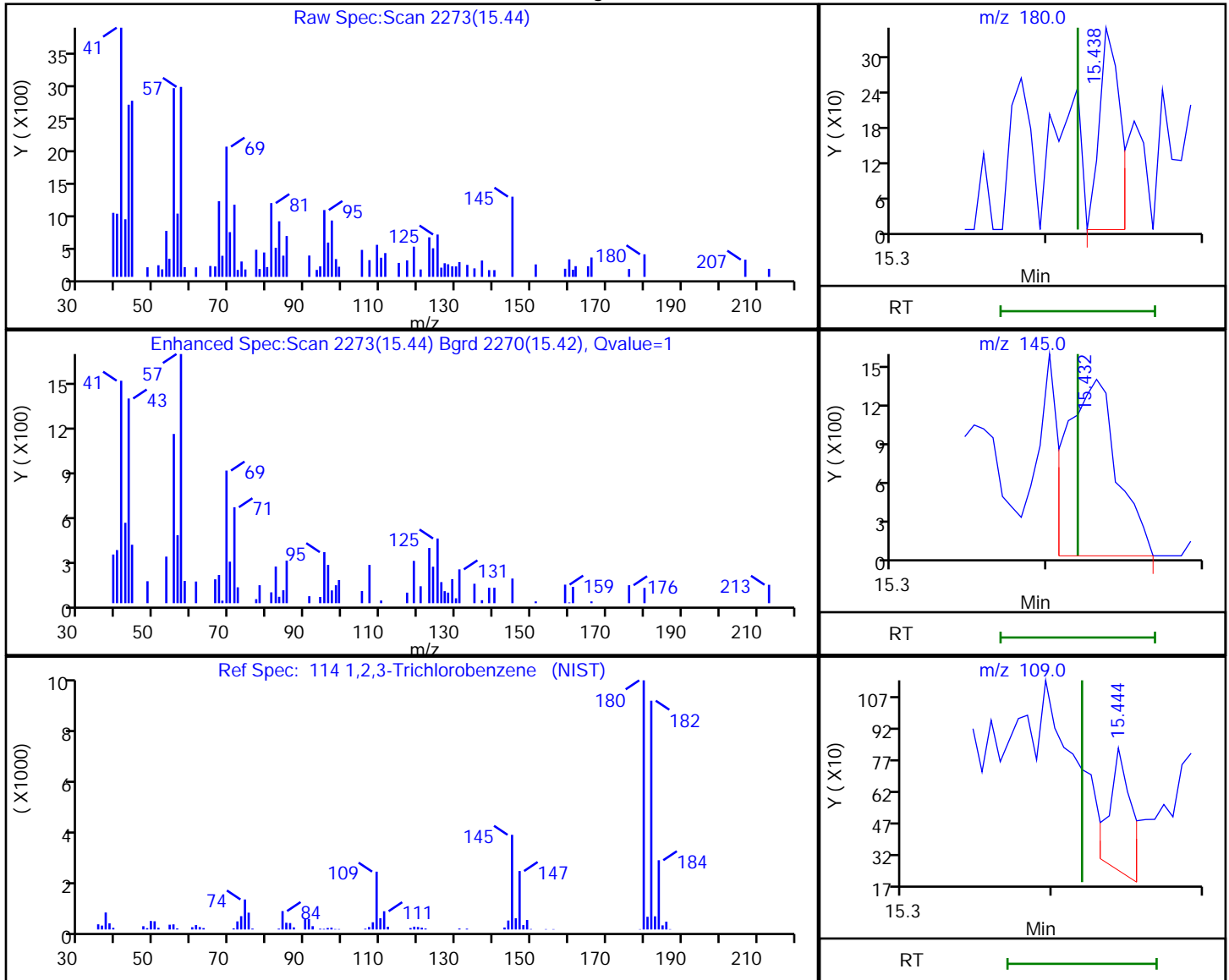


Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
 Injection Date: 07-Oct-2020 17:45:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-2-A Lab Sample ID: 580-98033-2  
 Client ID: AB-02B-16.5  
 Operator ID: jsm ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

114 1,2,3-Trichlorobenzene, CAS: 87-61-6

Processing Results



RT	Mass	Response	Amount
15.44	180.00	324	0.085319
15.43	145.00	3064	
15.44	109.00	625	

Reviewer: jantanuc, 09-Oct-2020 11:07:12

Audit Action: Marked Compound Undetected

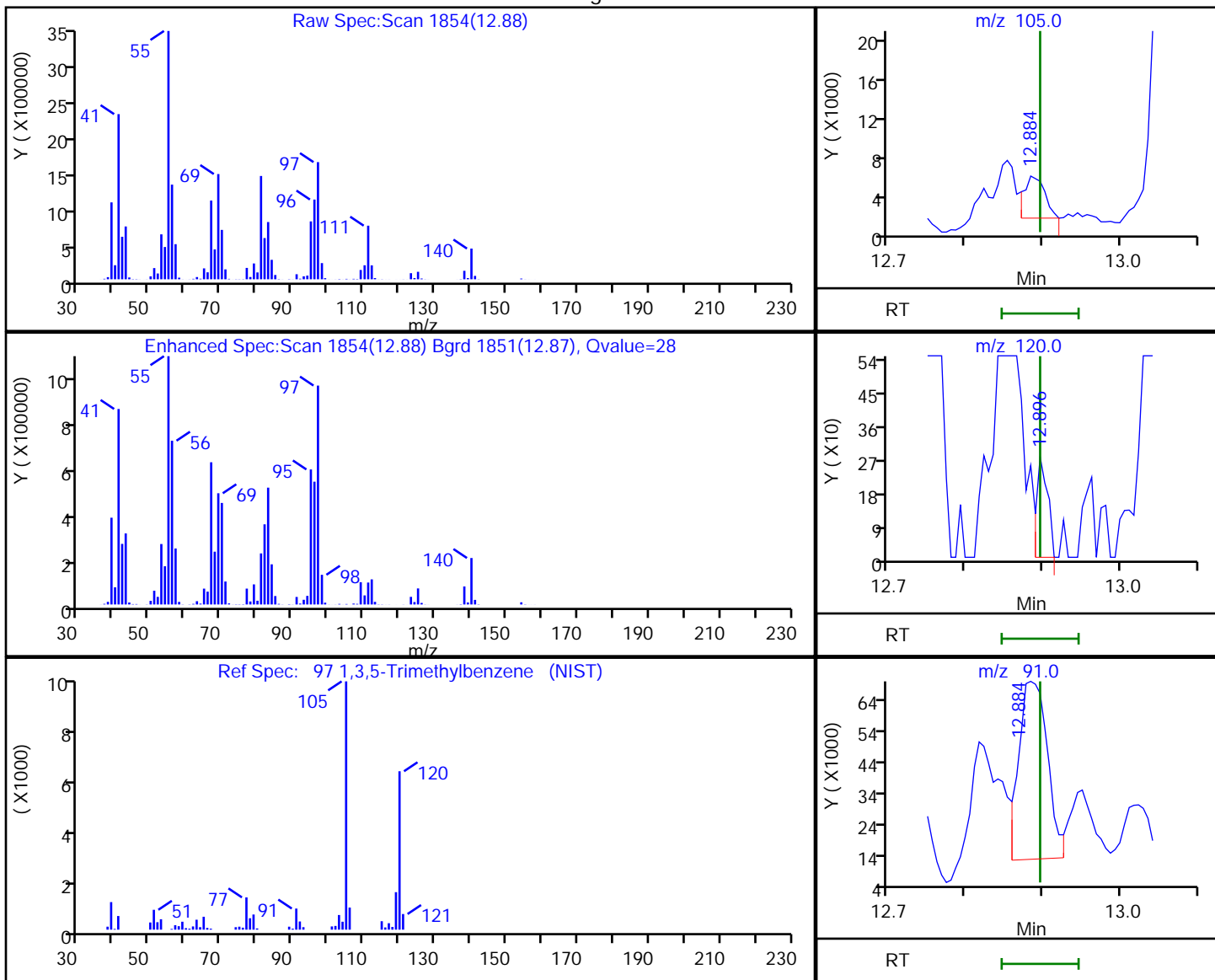
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
 Injection Date: 07-Oct-2020 17:45:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-2-A Lab Sample ID: 580-98033-2  
 Client ID: AB-02B-16.5  
 Operator ID: jsm ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

97 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
12.88	105.00	7803	0.506857
12.90	120.00	276	
12.88	91.00	150943	

Reviewer: jantanuc, 09-Oct-2020 10:54:35

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

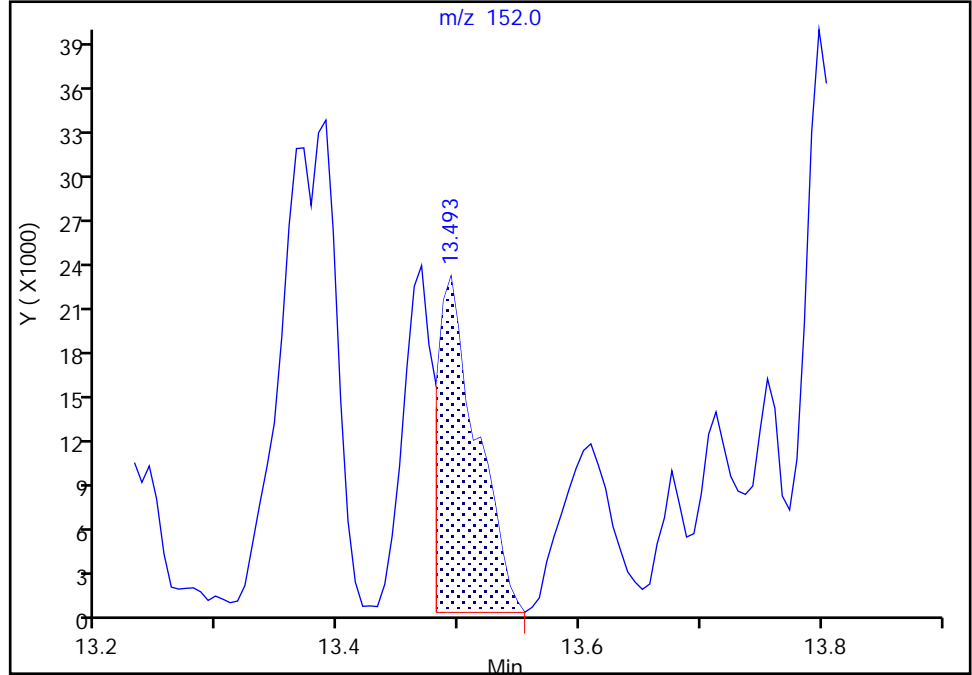
Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_011.D  
Injection Date: 07-Oct-2020 17:45:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-2-A Lab Sample ID: 580-98033-2  
Client ID: AB-02B-16.5  
Operator ID: jsm ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

\* 103 1,4-Dichlorobenzene-d4, CAS: 3855-82-1  
Signal: 1

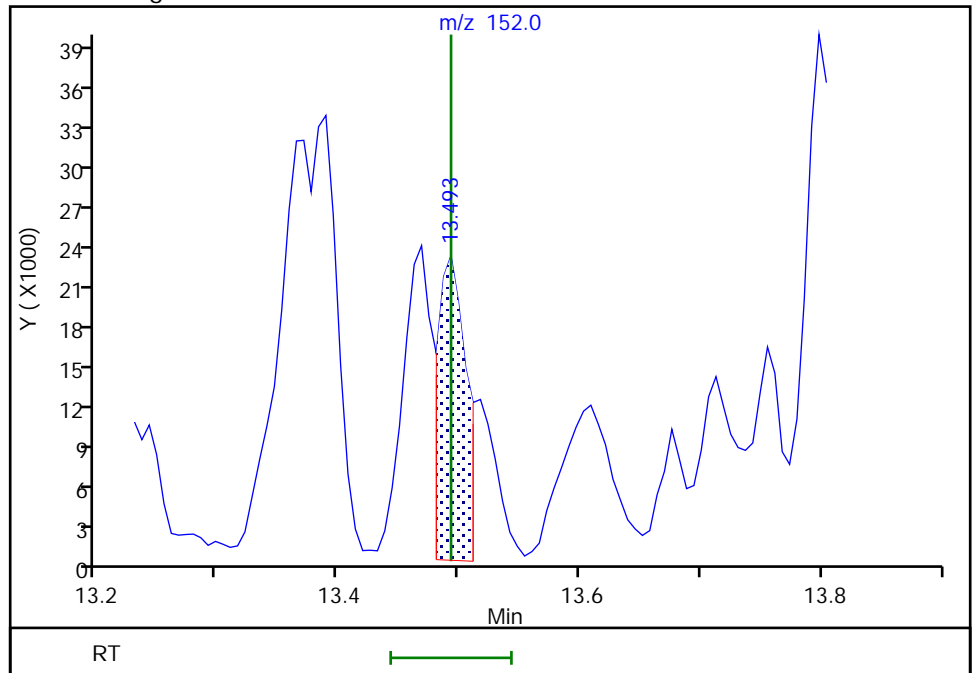
RT: 13.49  
Area: 50416  
Amount: 10.000000  
Amount Units: ug/L

Processing Integration Results



RT: 13.49  
Area: 38234  
Amount: 10.000000  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:55:54  
Audit Action: Manually Integrated

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-02B-16.5 RA Lab Sample ID: 580-98033-2 RA  
 Matrix: Solid Lab File ID: 10142020\_012.D  
 Analysis Method: 8260D Date Collected: 10/05/2020 12:35  
 Sample wt/vol: 5.974(g) Date Analyzed: 10/14/2020 19:57  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 22.7 Level: (low/med) Low  
 Analysis Batch No.: 340807 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
135-98-8	sec-Butylbenzene	17		3.2	
104-51-8	n-Butylbenzene	ND		3.2	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	108		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-121
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_012.D  
 Lims ID: 580-98033-A-2-B  
 Client ID: AB-02B-16.5  
 Sample Type: Client  
 Inject. Date: 14-Oct-2020 19:57:30 ALS Bottle#: 12 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-2  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Oct-2020 12:59:04 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1625

First Level Reviewer: limwirojt

Date: 15-Oct-2020 12:54:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
23 Methylene Chloride	84	4.537	4.531	0.006	75	8403	2.63	M
* 18 TBA-d9 (IS)	65	4.641	4.647	-0.006	0	45617	200.0	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.738	0.000	66	18314	9.74	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	25209	9.85	
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	97	70646	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	82	79647	10.8	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	38	58535	10.0	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.566	12.560	0.006	22	19544	9.24	
100 sec-Butylbenzene	105	13.328	13.322	0.006	59	248488	15.4	a
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	46	40974	10.0	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_012.D

Injection Date: 14-Oct-2020 19:57:30

Instrument ID: TAC119

Lims ID: 580-98033-A-2-B

Lab Sample ID: 580-98033-2

Client ID: AB-02B-16.5

Operator ID: cjb

ALS Bottle#: 12

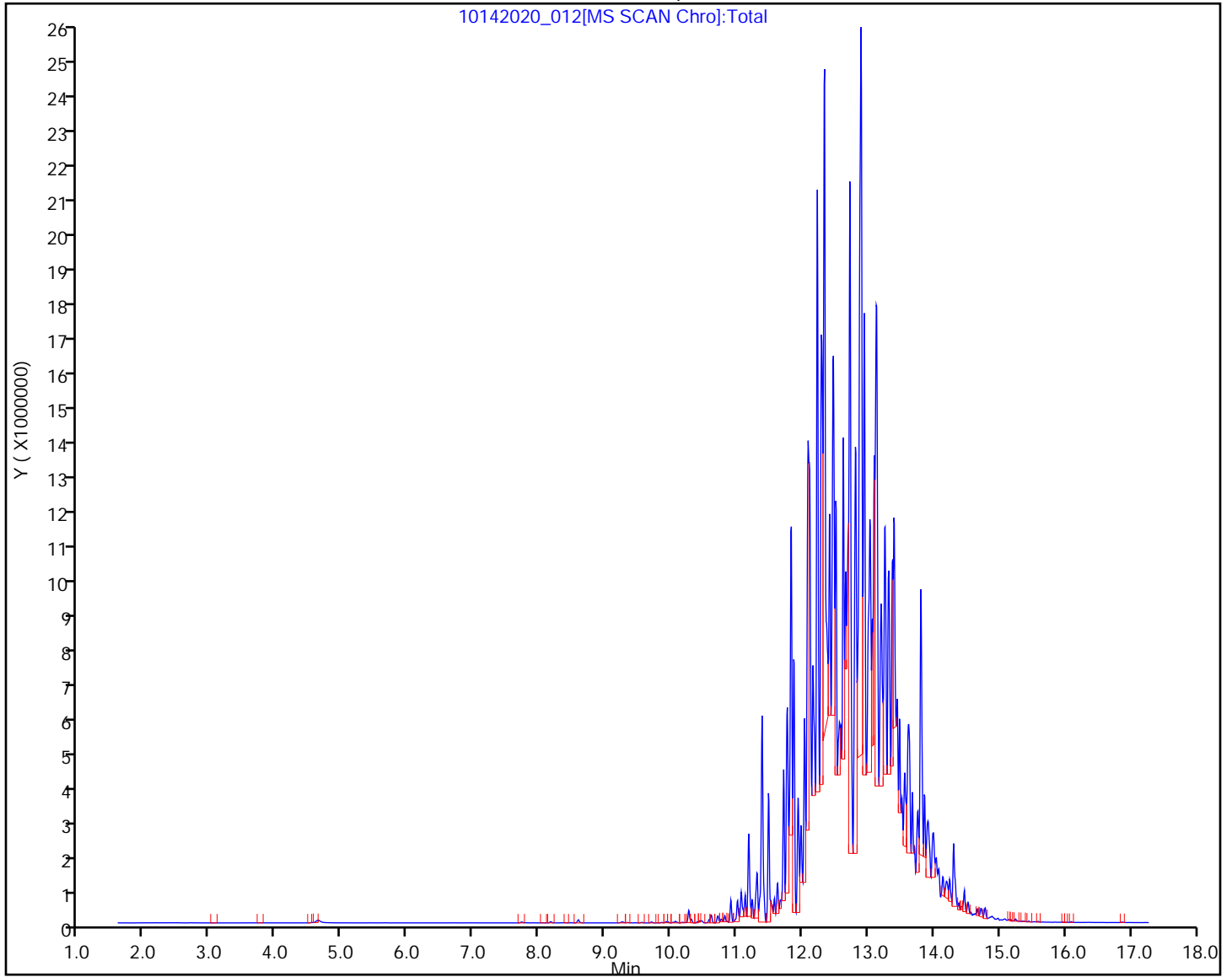
Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_012.D  
 Lims ID: 580-98033-A-2-B  
 Client ID: AB-02B-16.5  
 Sample Type: Client  
 Inject. Date: 14-Oct-2020 19:57:30 ALS Bottle#: 12 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-2  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Oct-2020 12:59:04 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1625

First Level Reviewer: limwirojt

Date: 15-Oct-2020 12:54:24

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	9.74	97.43
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	9.85	98.45
\$ 64 Trifluorotoluene (Surr)	0.0	0	0.00
\$ 72 Toluene-d8 (Surr)	10.0	10.8	108.24
\$ 92 4-Bromofluorobenzene (Surr)	10.0	9.24	92.40
\$ 118 BFB	0.0	0	0.00

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_012.D

Injection Date: 14-Oct-2020 19:57:30

Instrument ID: TAC119

Lims ID: 580-98033-A-2-B

Lab Sample ID: 580-98033-2

Client ID: AB-02B-16.5

Operator ID: cjb

ALS Bottle#: 12

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

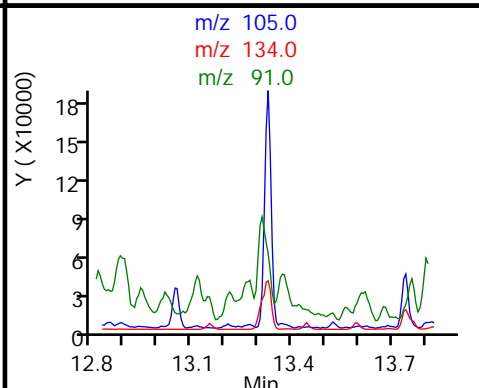
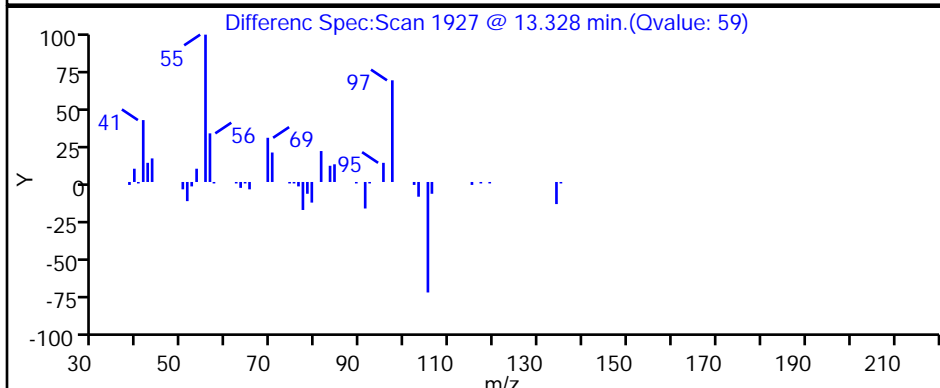
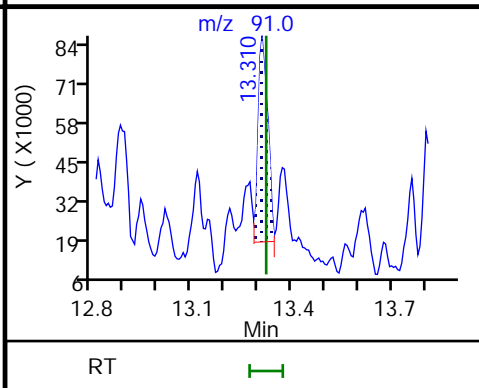
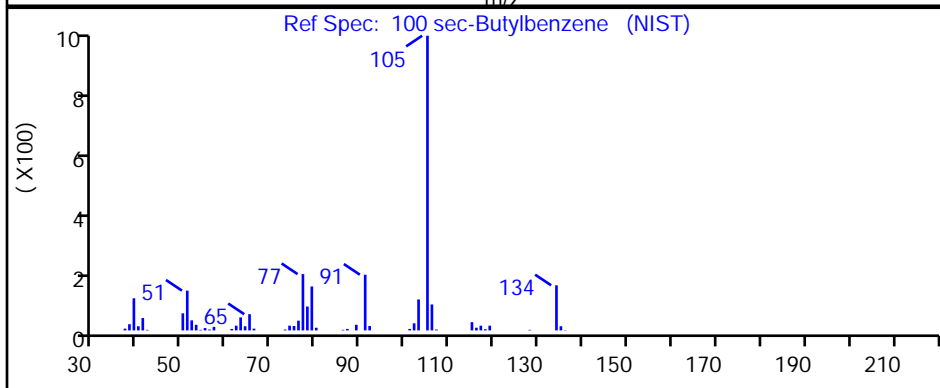
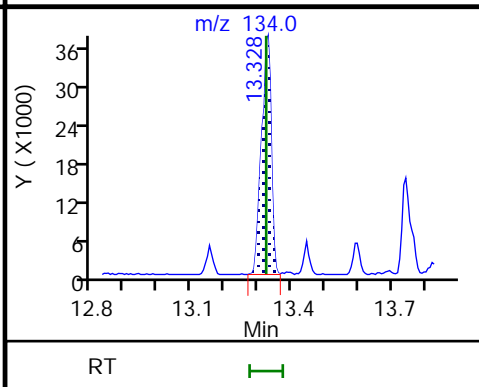
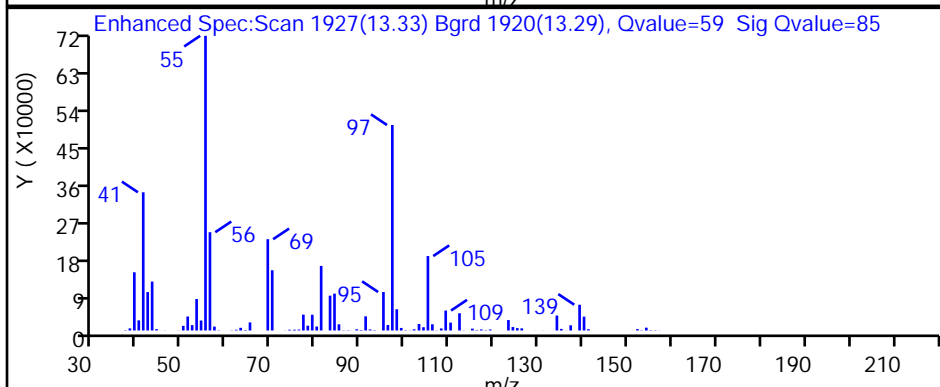
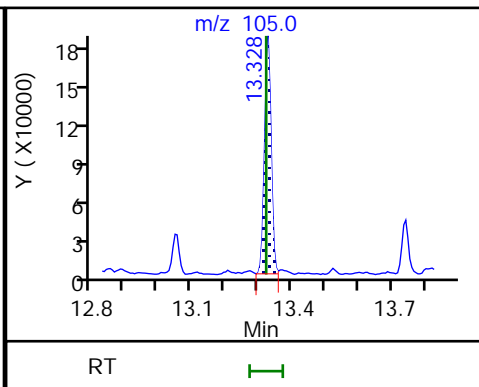
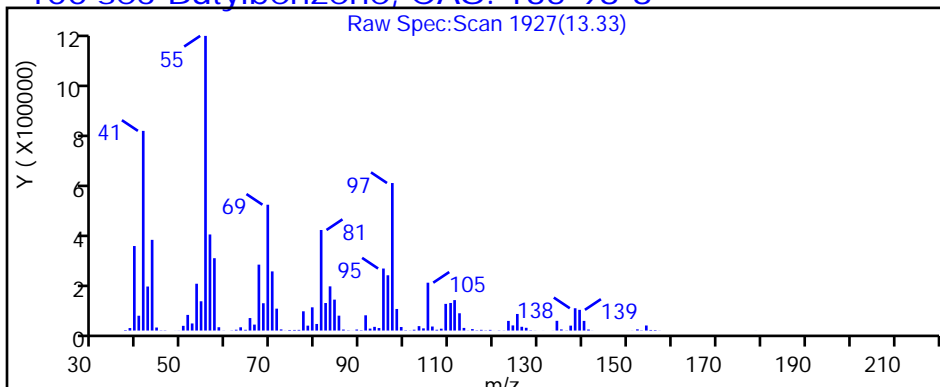
Method: DSS TAC119

Limit Group: 8260C

Column:

Detector MS SCAN

### 100 sec-Butylbenzene, CAS: 135-98-8





Eurofins TestAmerica, Seattle

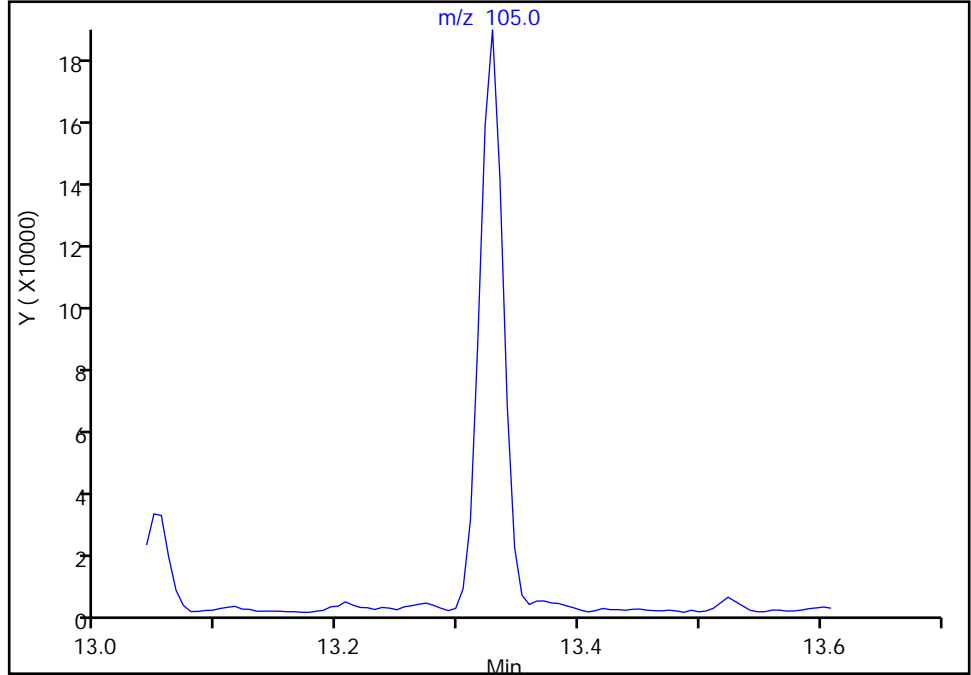
Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_012.D  
Injection Date: 14-Oct-2020 19:57:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-2-B Lab Sample ID: 580-98033-2  
Client ID: AB-02B-16.5  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

100 sec-Butylbenzene, CAS: 135-98-8

Signal: 1

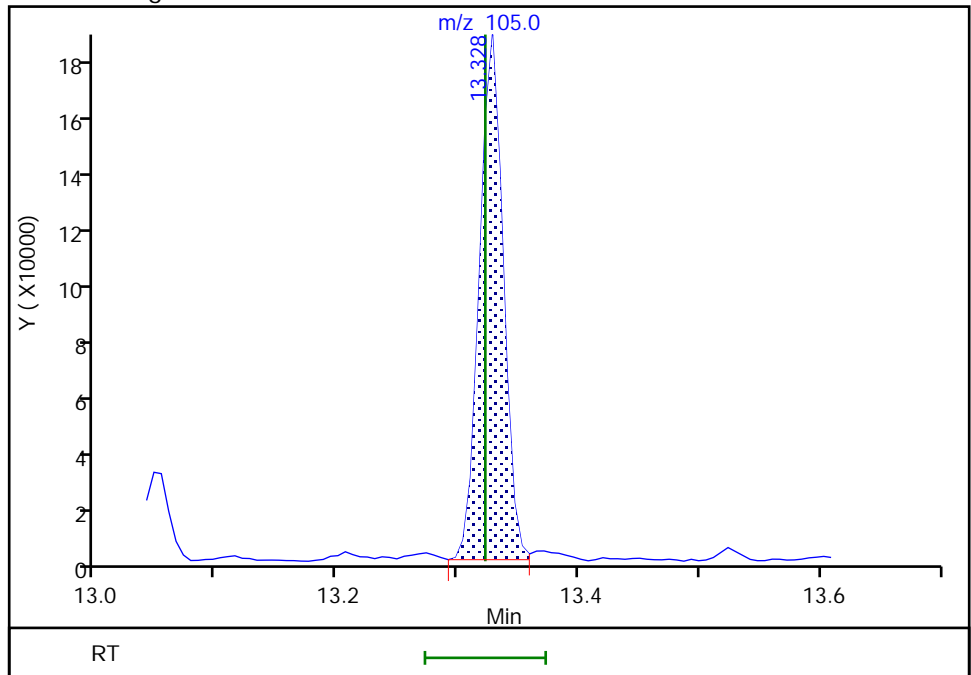
Not Detected  
Expected RT: 13.32

Processing Integration Results



Manual Integration Results

RT: 13.33  
Area: 248488  
Amount: 15.359159  
Amount Units: ug/L



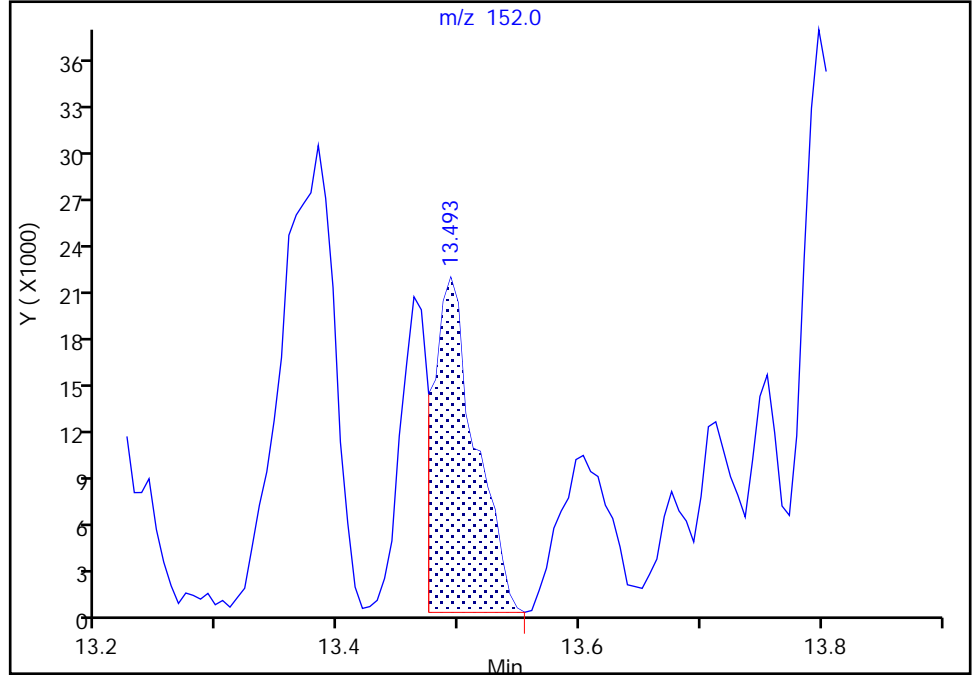
Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_012.D  
Injection Date: 14-Oct-2020 19:57:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-2-B Lab Sample ID: 580-98033-2  
Client ID: AB-02B-16.5  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 15  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

\* 103 1,4-Dichlorobenzene-d4, CAS: 3855-82-1  
Signal: 1

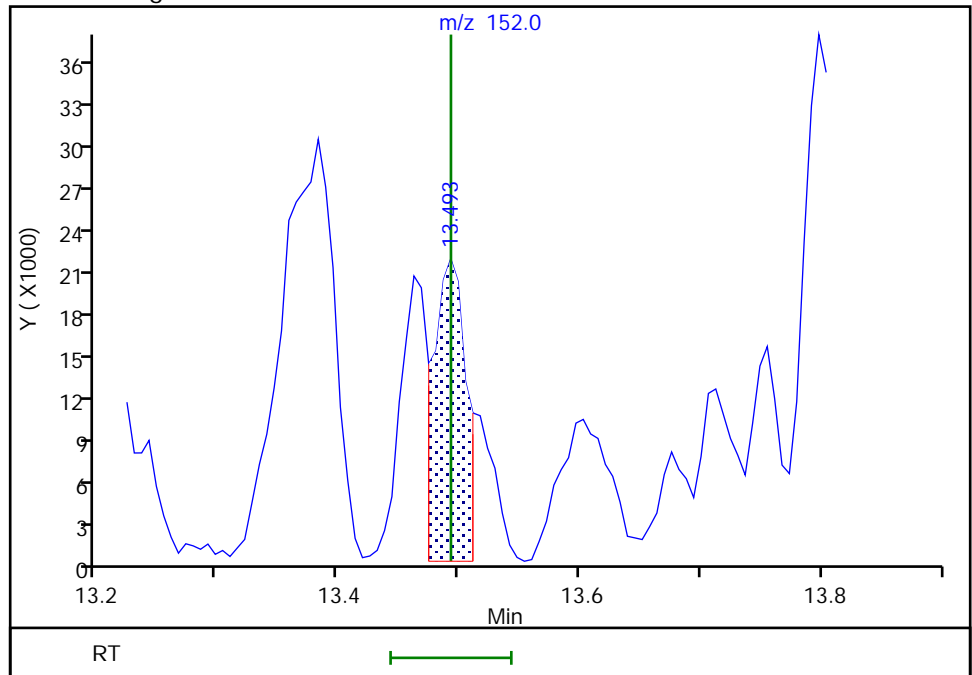
RT: 13.49  
Area: 51716  
Amount: 10.000000  
Amount Units: ug/L

Processing Integration Results



RT: 13.49  
Area: 40974  
Amount: 10.000000  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Oct-2020 12:53:36  
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-03B-16.5 Lab Sample ID: 580-98033-3  
 Matrix: Solid Lab File ID: 10072020\_012.D  
 Analysis Method: 8260D Date Collected: 10/05/2020 13:00  
 Sample wt/vol: 6.277(g) Date Analyzed: 10/07/2020 18:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 23.2 Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	ND		2.1	
74-87-3	Chloromethane	ND		5.2	
75-01-4	Vinyl chloride	ND		2.1	
74-83-9	Bromomethane	ND		1.0	
75-00-3	Chloroethane	ND		10	
75-69-4	Trichlorofluoromethane	ND		2.1	
75-35-4	1,1-Dichloroethene	ND		5.2	
75-09-2	Methylene Chloride	ND		42	
1634-04-4	Methyl tert-butyl ether	ND		2.1	
156-60-5	trans-1,2-Dichloroethene	ND		2.1	
75-34-3	1,1-Dichloroethane	ND		1.0	
594-20-7	2,2-Dichloropropane	ND		5.2	
156-59-2	cis-1,2-Dichloroethene	4.1		3.1	
74-97-5	Chlorobromomethane	ND		2.1	
67-66-3	Chloroform	ND		2.1	
71-55-6	1,1,1-Trichloroethane	ND		2.1	
56-23-5	Carbon tetrachloride	ND		2.1	
563-58-6	1,1-Dichloropropene	ND		2.1	
71-43-2	Benzene	ND		2.1	
107-06-2	1,2-Dichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		2.1	
78-87-5	1,2-Dichloropropane	ND		2.1	
74-95-3	Dibromomethane	ND		1.0	
75-27-4	Dichlorobromomethane	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
108-88-3	Toluene	ND		10	
10061-02-6	trans-1,3-Dichloropropene	ND		10	
79-00-5	1,1,2-Trichloroethane	ND	*	2.1	
127-18-4	Tetrachloroethene	ND		2.1	
142-28-9	1,3-Dichloropropane	ND	*	2.1	
124-48-1	Chlorodibromomethane	ND		1.6	
106-93-4	Ethylene Dibromide	ND		1.0	
108-90-7	Chlorobenzene	ND		2.1	
630-20-6	1,1,1,2-Tetrachloroethane	ND		3.1	
100-41-4	Ethylbenzene	ND		2.1	
179601-23-1	m-Xylene & p-Xylene	ND		10	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-03B-16.5 Lab Sample ID: 580-98033-3  
 Matrix: Solid Lab File ID: 10072020\_012.D  
 Analysis Method: 8260D Date Collected: 10/05/2020 13:00  
 Sample wt/vol: 6.277(g) Date Analyzed: 10/07/2020 18:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 23.2 Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	ND		5.2	
100-42-5	Styrene	ND		3.1	
75-25-2	Bromoform	ND		5.2	
98-82-8	Isopropylbenzene	ND		2.1	
108-86-1	Bromobenzene	ND		10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	*	4.2	
96-18-4	1,2,3-Trichloropropane	ND		5.2	
103-65-1	N-Propylbenzene	ND		5.2	
95-49-8	2-Chlorotoluene	ND		5.2	
106-43-4	4-Chlorotoluene	ND		5.2	
98-06-6	tert-Butylbenzene	ND		3.1	
541-73-1	1,3-Dichlorobenzene	ND		5.2	
106-46-7	1,4-Dichlorobenzene	ND		5.2	
95-50-1	1,2-Dichlorobenzene	ND		10	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	
120-82-1	1,2,4-Trichlorobenzene	ND		2.1	
87-68-3	Hexachlorobutadiene	ND		3.1	
91-20-3	Naphthalene	ND		10	
87-61-6	1,2,3-Trichlorobenzene	ND		3.1	
108-67-8	1,3,5-Trimethylbenzene	ND		5.2	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	125	X	80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-121
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
 Lims ID: 580-98033-A-3-A  
 Client ID: AB-03B-16.5  
 Sample Type: Client  
 Inject. Date: 07-Oct-2020 18:11:30 ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-3  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 11:16:02 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc Date: 09-Oct-2020 11:16:02

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/L	Flags
5 Vinyl chloride	62	2.056	2.050	0.006	43	1186	0.2113	
23 Methylene Chloride	84	4.537	4.538	-0.001	54	1608	-2.43	7M
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	47245	200.0	
37 cis-1,2-Dichloroethene	96	6.921	6.927	-0.006	85	8077	3.92	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.738	-0.006	61	18677	9.60	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	26584	10.0	
53 Benzene	78	8.208	8.195	0.013	1	155	0.0201	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	97	73127	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	59	90004	12.5	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	26	57327	10.0	a
\$ 92 4-Bromofluorobenzene (Surr)	174	12.566	12.560	0.006	22	18845	9.10	
99 1,2,4-Trimethylbenzene	105	13.200	13.194	0.006	53	245020	16.6	
100 sec-Butylbenzene	105	13.335	13.323	0.013	57	540247	28.3	a
105 4-Isopropyltoluene	119	13.450	13.444	0.006	1	135299	8.55	
* 103 1,4-Dichlorobenzene-d4	152	13.499	13.493	0.006	3	48298	10.0	sMa
108 n-Butylbenzene	134	13.761	13.761	0.000	18	54323	13.9	M
112 Naphthalene	128	15.243	15.249	-0.006	73	7737	0.6093	

QC Flag Legend

Processing Flags

- 7 - Failed Limit of Detection
- s - Failed ISTD Recovery Test

Review Flags

- M - Manually Integrated
- a - User Assigned ID

Reagents:

5X SUR/IS\_00001 Amount Added: 1.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D

Injection Date: 07-Oct-2020 18:11:30

Instrument ID: TAC119

Lims ID: 580-98033-A-3-A

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: jsm

ALS Bottle#: 12

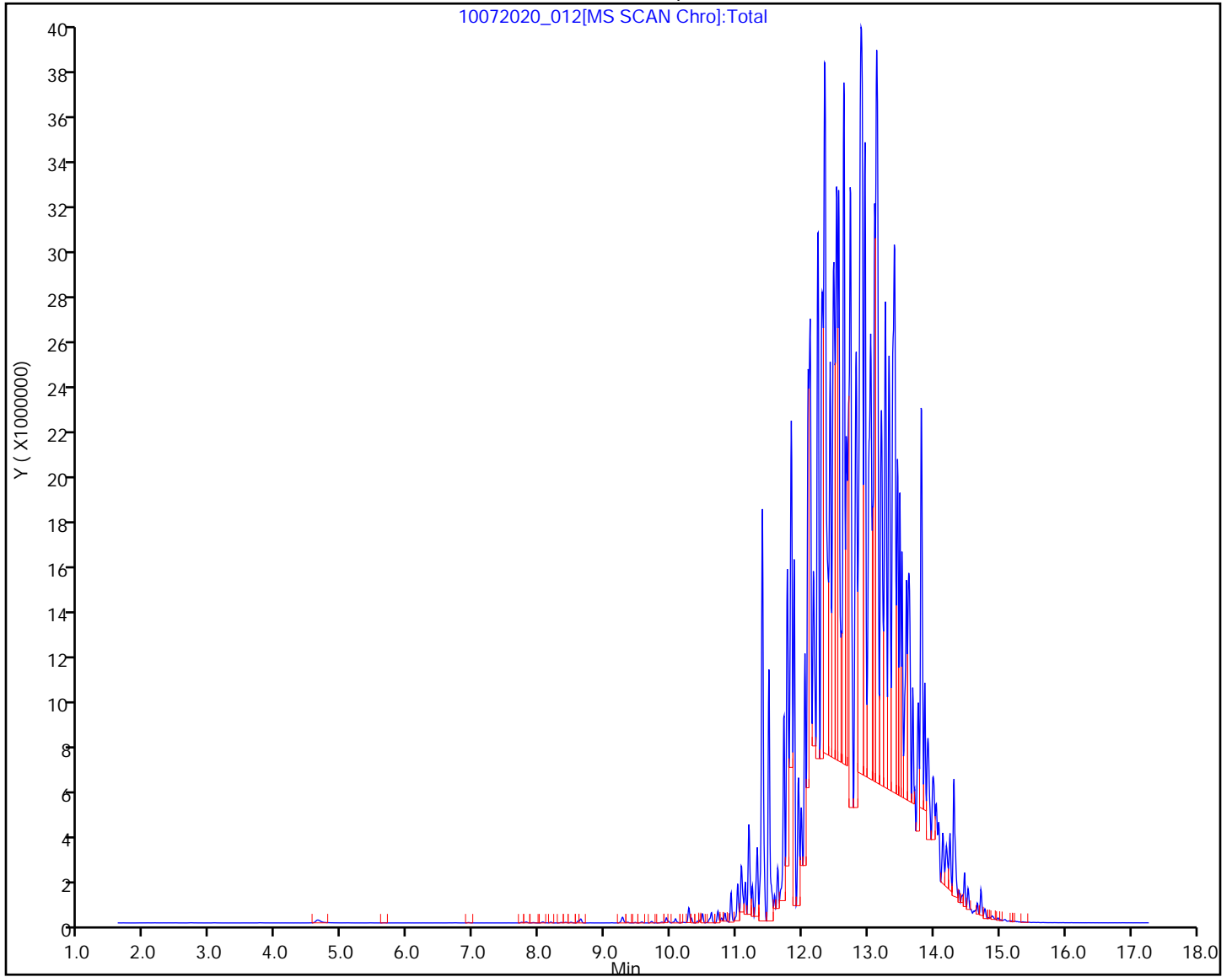
Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
 Lims ID: 580-98033-A-3-A  
 Client ID: AB-03B-16.5  
 Sample Type: Client  
 Inject. Date: 07-Oct-2020 18:11:30 ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-3  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 11:16:02 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc

Date: 09-Oct-2020 11:16:02

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	9.60	95.99
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	100.30
\$ 64 Trifluorotoluene (Surr)	0.0	0	0.00
\$ 72 Toluene-d8 (Surr)	10.0	12.5	124.89
\$ 92 4-Bromofluorobenzene (Surr)	10.0	9.10	90.97
\$ 118 BFB	0.0	0	0.00

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D

Injection Date: 07-Oct-2020 18:11:30

Instrument ID: TAC119

Lims ID: 580-98033-A-3-A

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: jsm

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

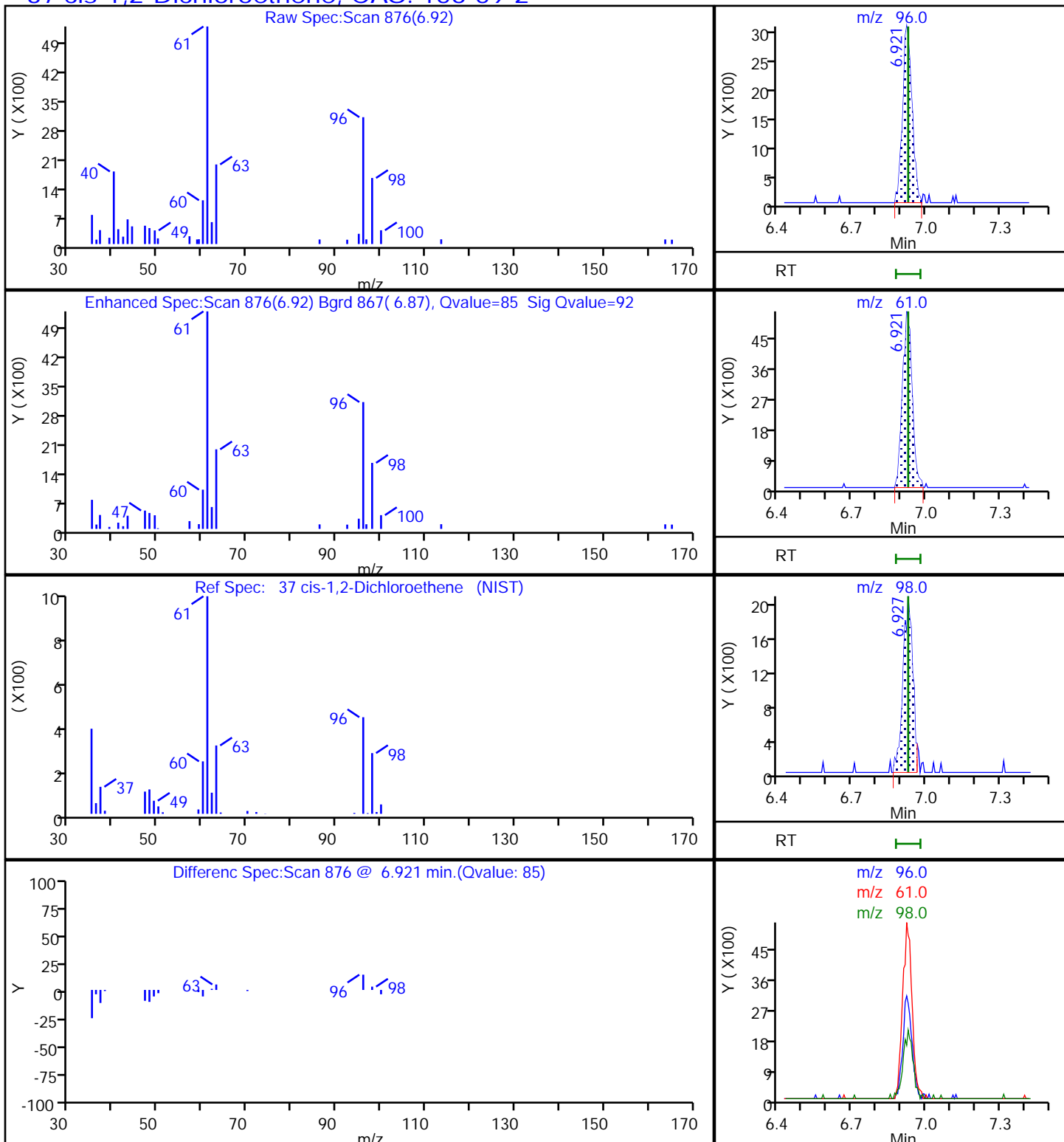
Method: DSS TAC119

Limit Group: 8260C

Column:

Detector MS SCAN

### 37 cis-1,2-Dichloroethene, CAS: 156-59-2



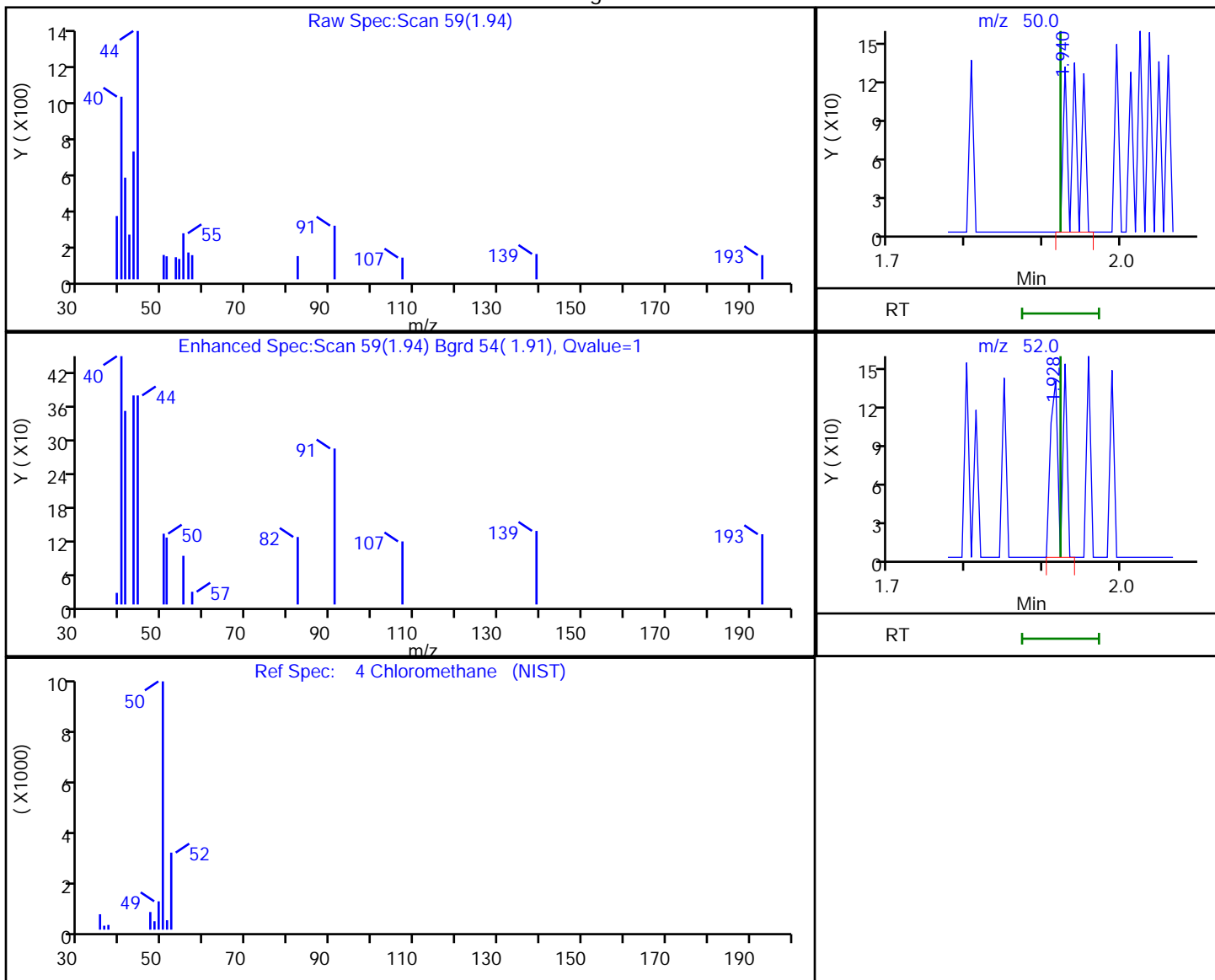


Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
Client ID: AB-03B-16.5  
Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.94	50.00	136	0.042672
1.93	52.00	144	

Reviewer: jantanuc, 09-Oct-2020 11:12:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

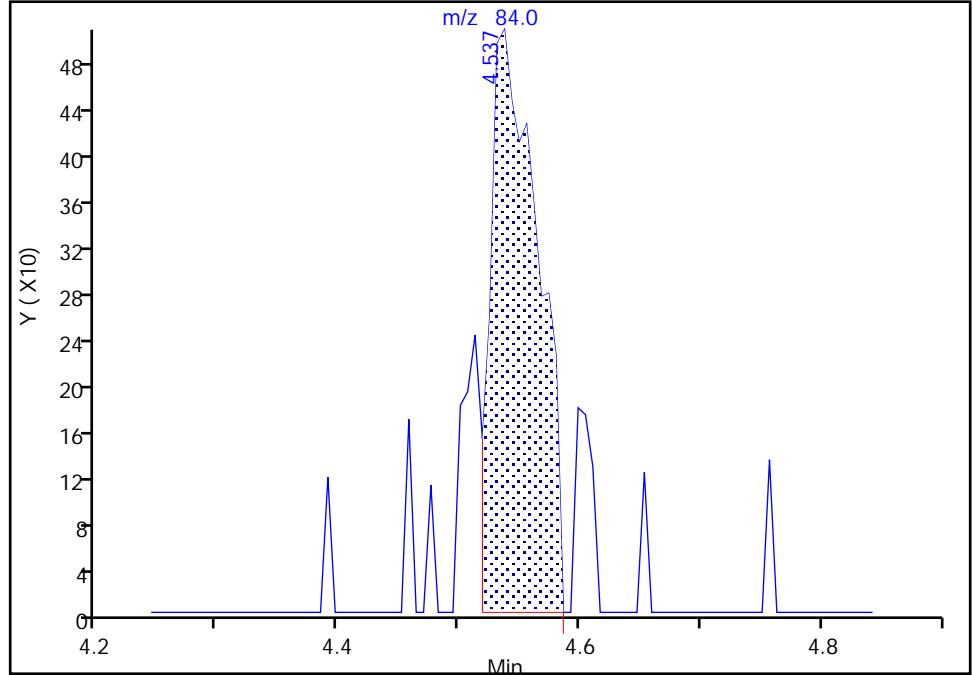
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Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
Client ID: AB-03B-16.5  
Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

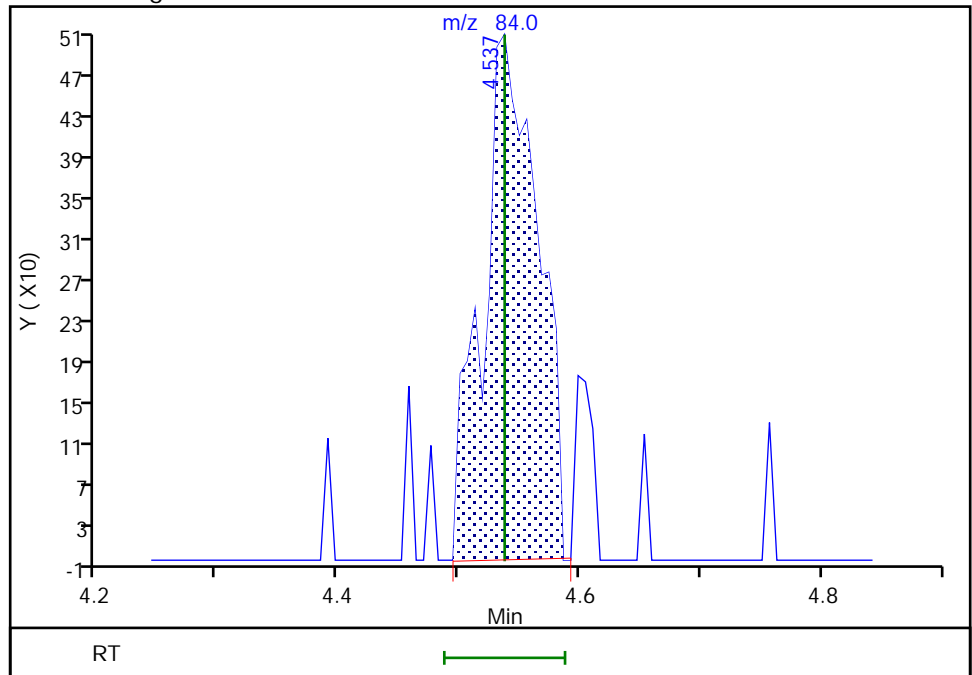
RT: 4.54  
Area: 1389  
Amount: -2.584941  
Amount Units: ug/L

Processing Integration Results



RT: 4.54  
Area: 1608  
Amount: -2.428610  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 11:12:23  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D

Injection Date: 07-Oct-2020 18:11:30

Instrument ID: TAC119

Lims ID: 580-98033-A-3-A

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: jsm

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

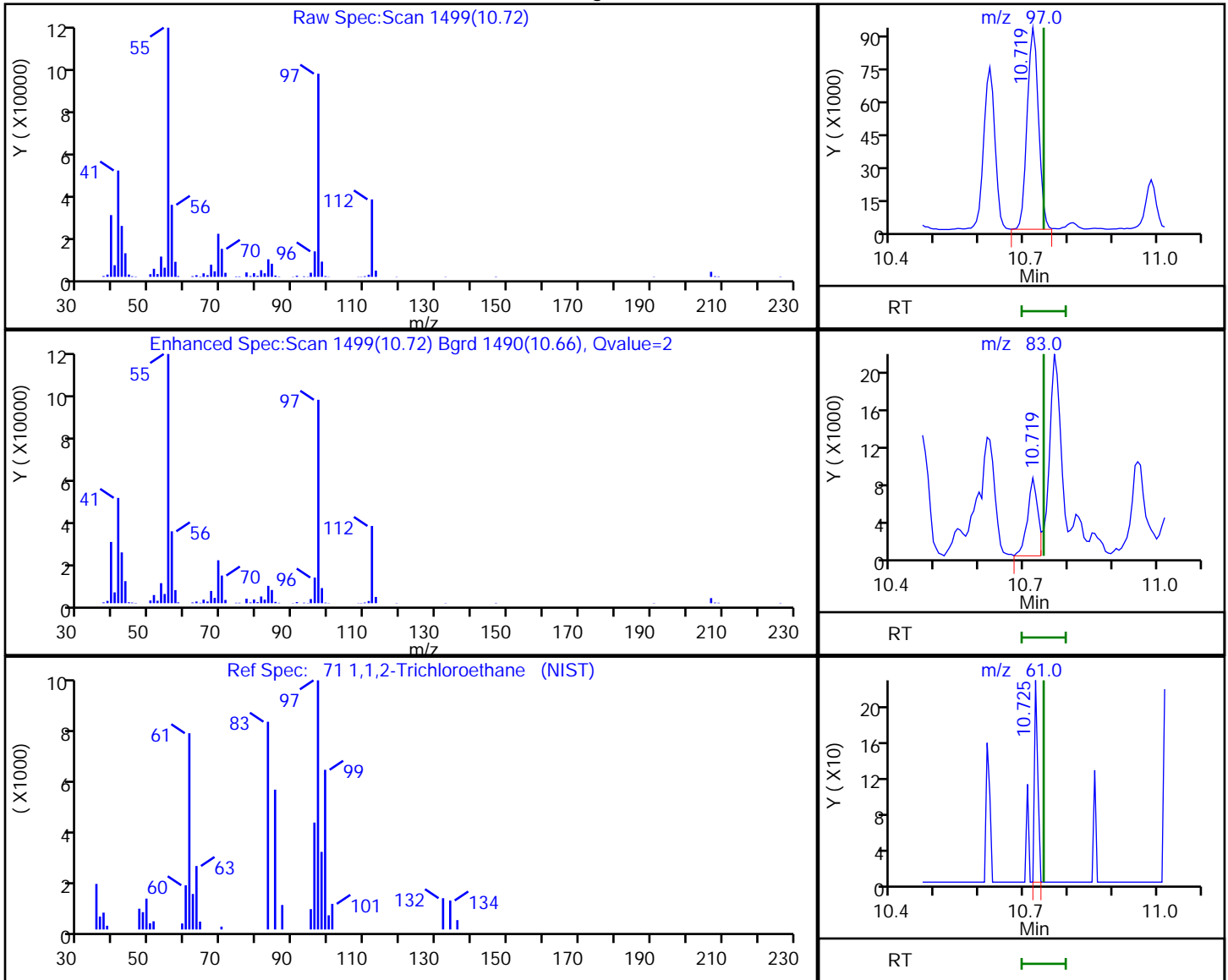
Limit Group: 8260C

Column:

Detector: MS SCAN

71 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.72	97.00	167384	107.1648
10.72	83.00	13195	
10.73	61.00	121	

Reviewer: jantanuc, 09-Oct-2020 11:12:59

Audit Action: Marked Compound Undetected

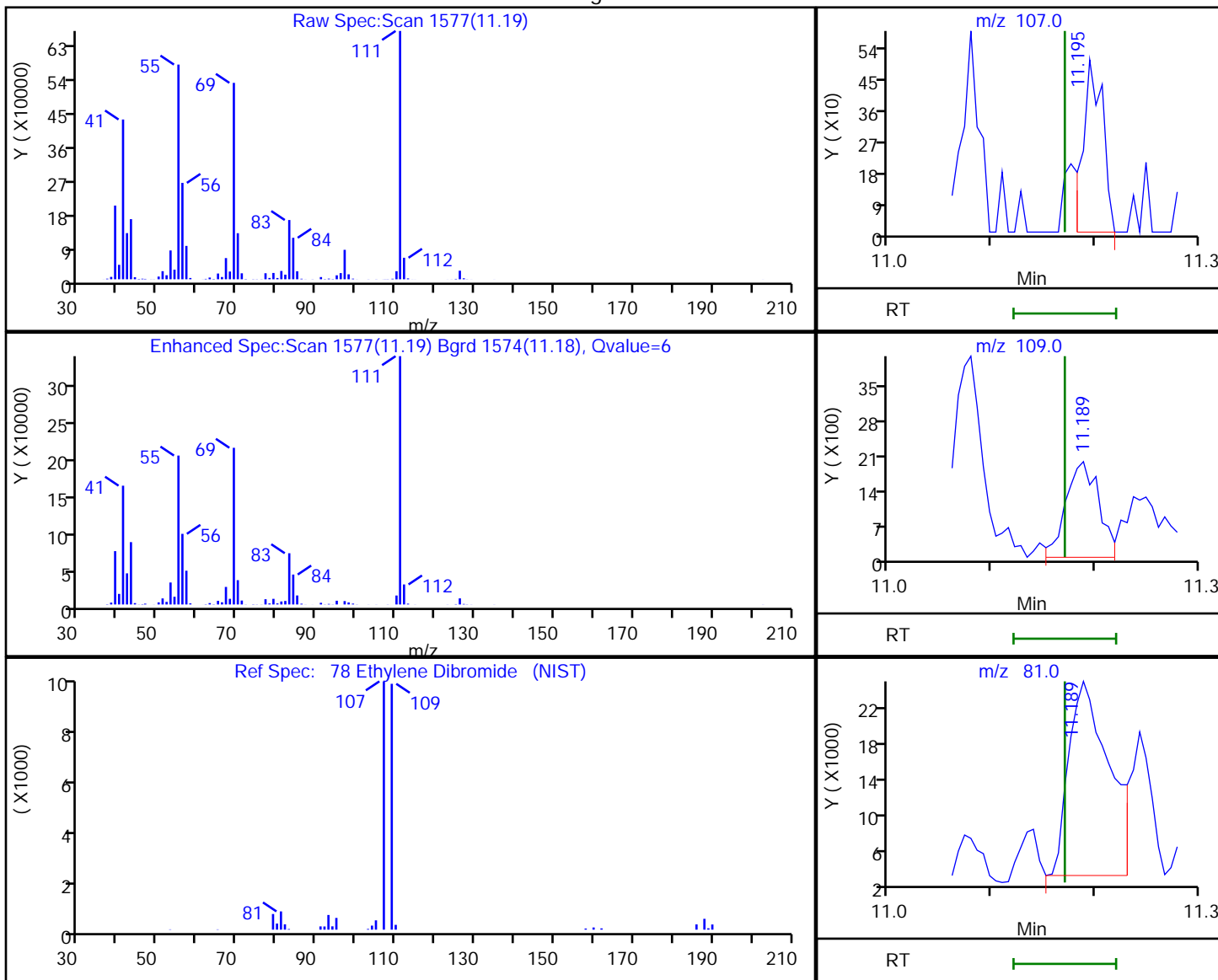
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
 Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
 Client ID: AB-03B-16.5  
 Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

78 Ethylene Dibromide, CAS: 106-93-4

Processing Results



RT	Mass	Response	Amount
11.19	107.00	672	0.260679
11.19	109.00	4294	
11.19	81.00	57841	

Reviewer: jantanuc, 09-Oct-2020 11:14:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D

Injection Date: 07-Oct-2020 18:11:30

Instrument ID: TAC119

Lims ID: 580-98033-A-3-A

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: jsm

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

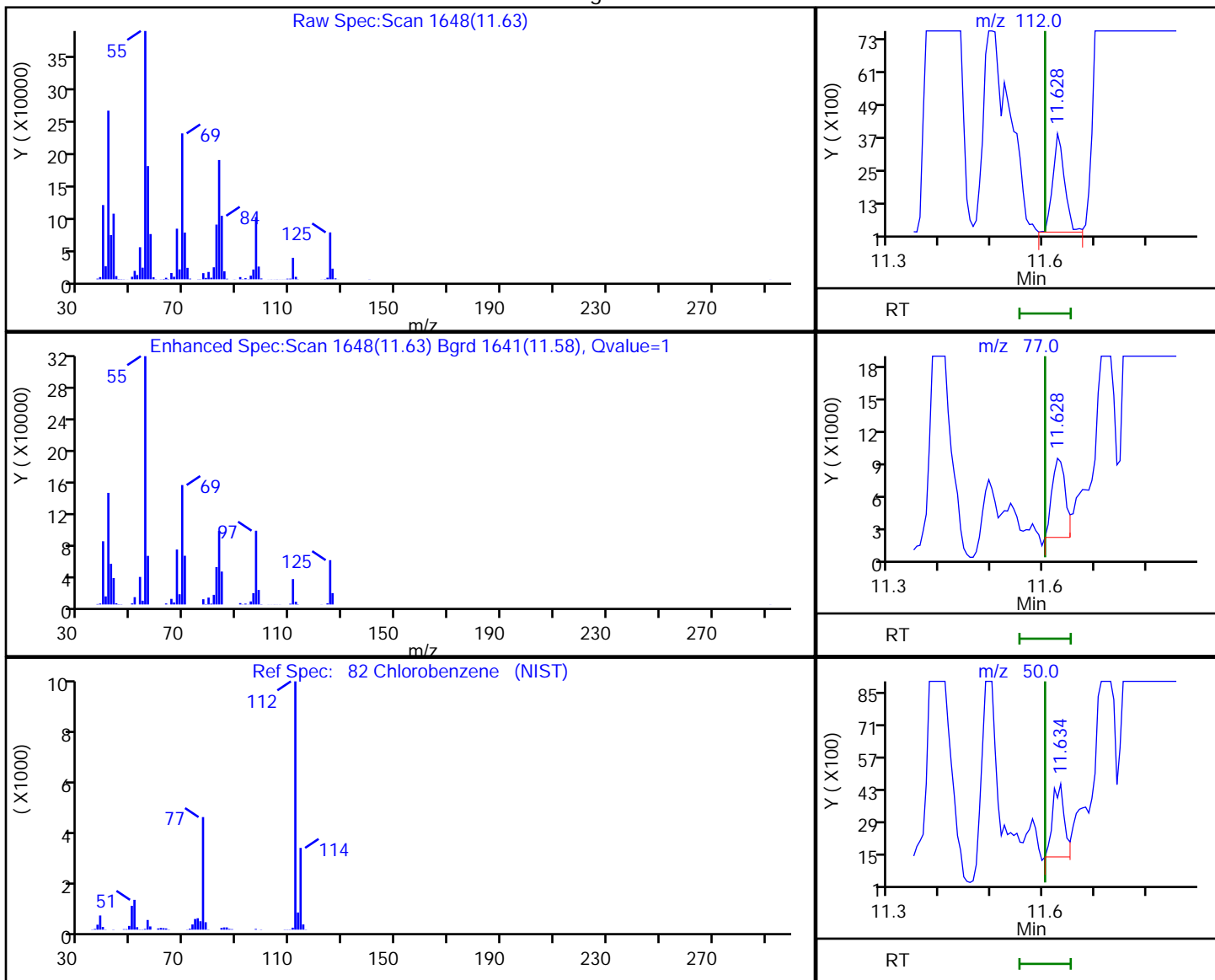
Limit Group: 8260C

Column:

Detector: MS SCAN

82 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
11.63	112.00	5712	1.029167
11.63	77.00	13250	
11.63	50.00	5005	

Reviewer: jantanuc, 09-Oct-2020 11:14:06

Audit Action: Marked Compound Undetected

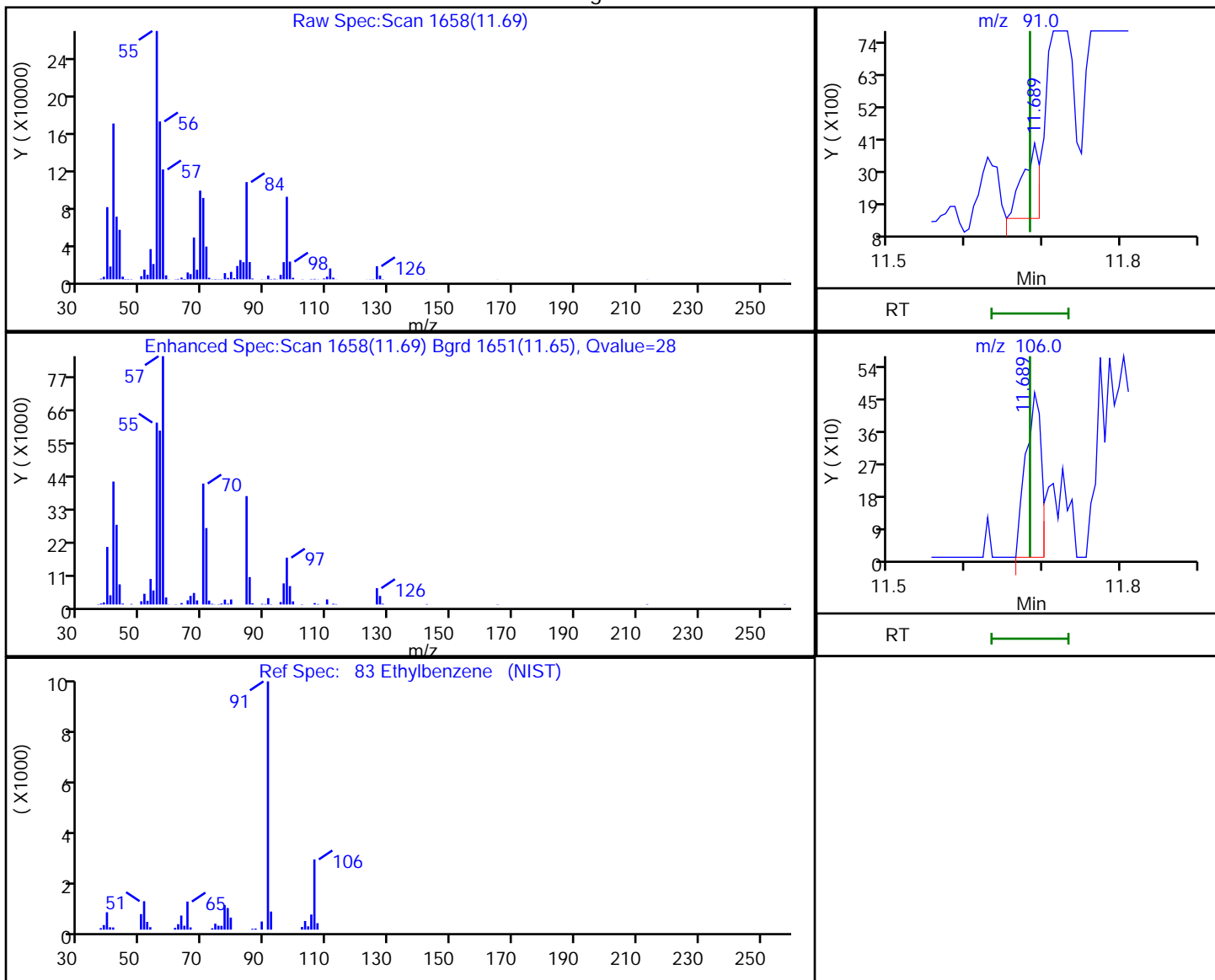
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
 Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
 Client ID: AB-03B-16.5  
 Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

83 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
11.69	91.00	3779	0.058510
11.69	106.00	654	

Reviewer: jantanuc, 09-Oct-2020 11:14:09

Audit Action: Marked Compound Undetected

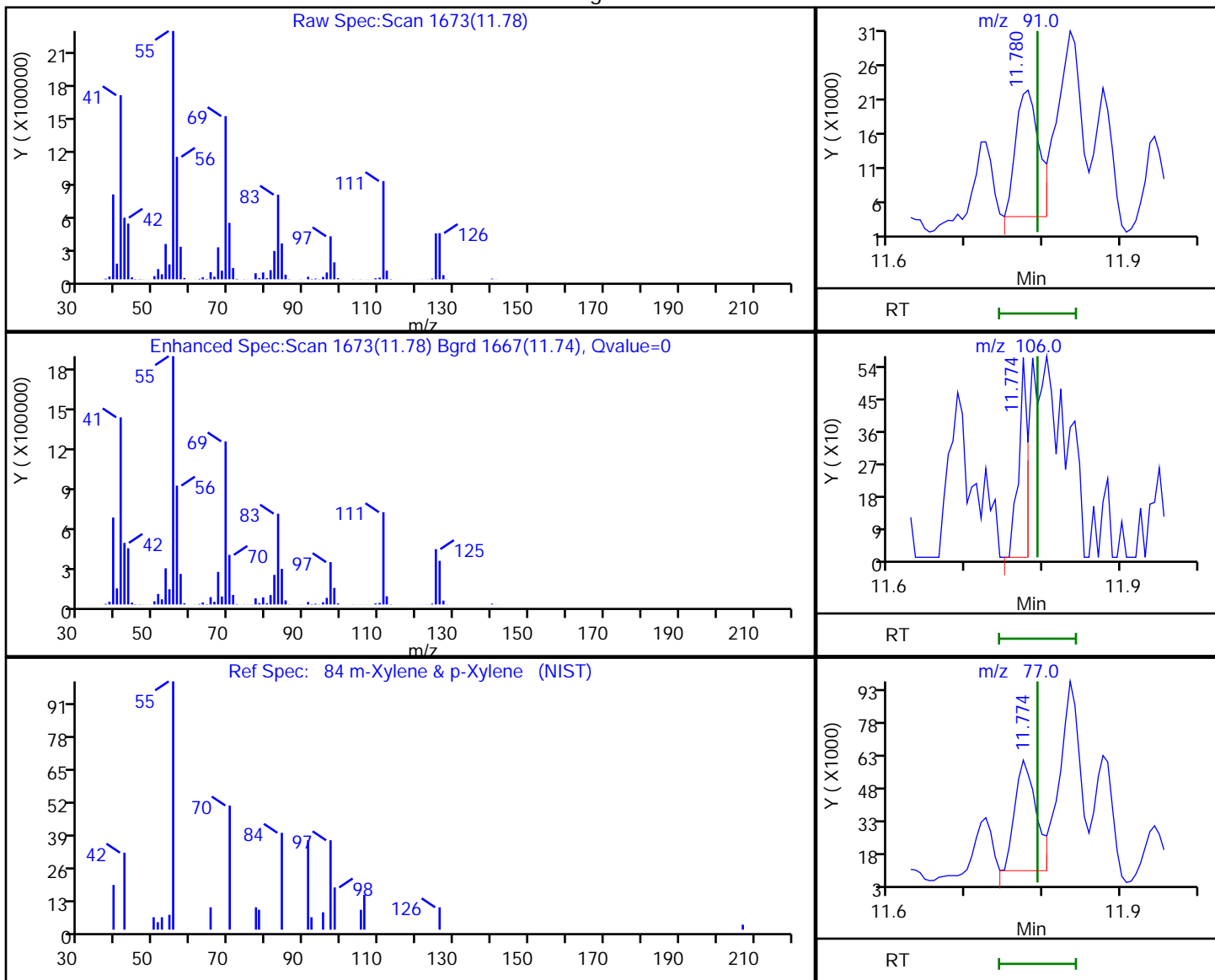
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
 Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
 Client ID: AB-03B-16.5  
 Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

84 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
11.78	91.00	39228	4.859789
11.77	106.00	453	
11.77	77.00	99276	

Reviewer: jantanuc, 09-Oct-2020 11:14:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D

Injection Date: 07-Oct-2020 18:11:30

Instrument ID: TAC119

Lims ID: 580-98033-A-3-A

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: jsm

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

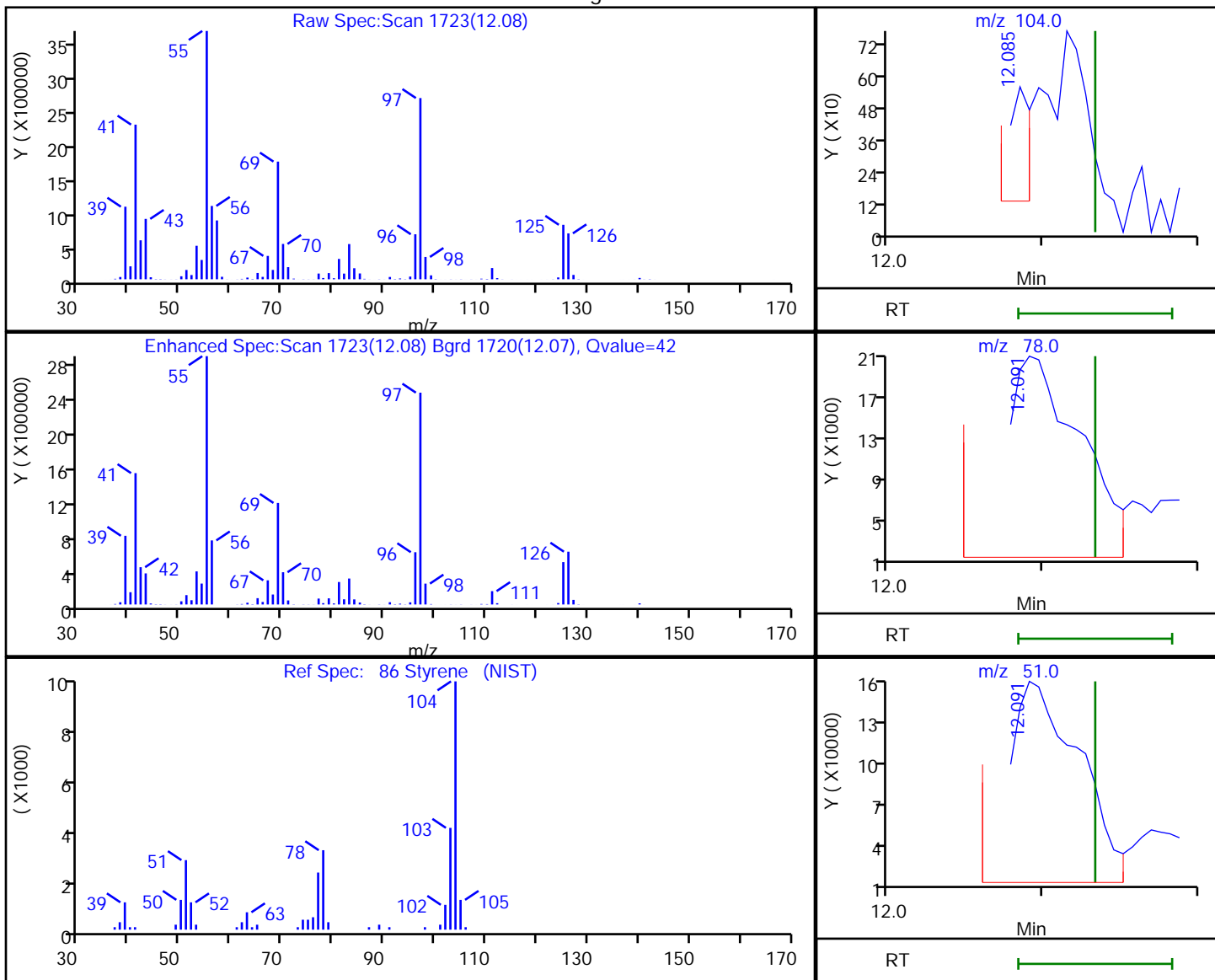
Limit Group: 8260C

Column:

Detector: MS SCAN

86 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
12.08	104.00	391	0.072697
12.09	78.00	60767	
12.09	51.00	425171	

Reviewer: jantanuc, 09-Oct-2020 11:14:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D

Injection Date: 07-Oct-2020 18:11:30

Instrument ID: TAC119

Lims ID: 580-98033-A-3-A

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: jsm

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

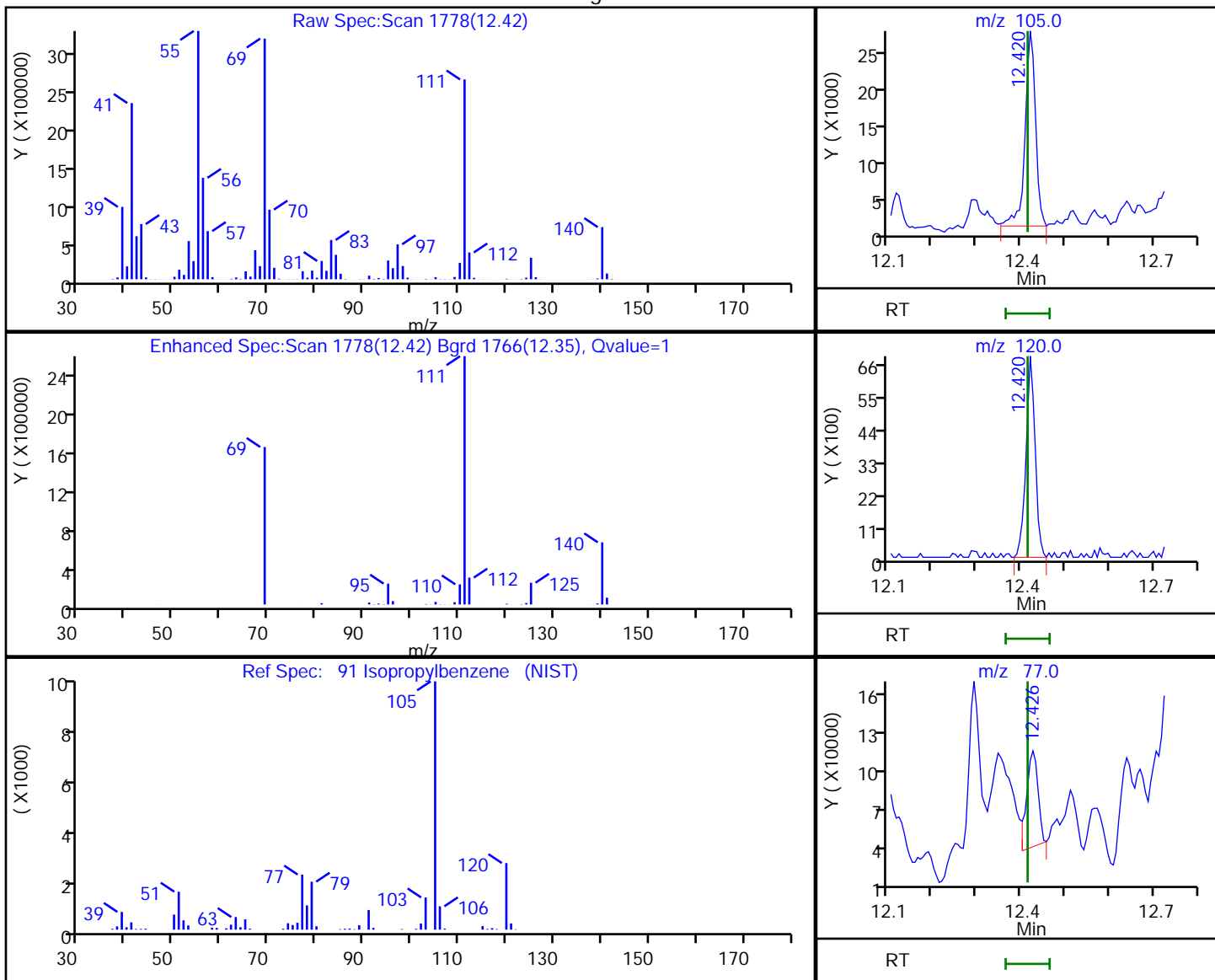
Limit Group: 8260C

Column:

Detector: MS SCAN

91 Isopropylbenzene, CAS: 98-82-8

Processing Results



RT	Mass	Response	Amount
12.42	105.00	43543	4.772025
12.42	120.00	9925	
12.43	77.00	132691	

Reviewer: jantanuc, 09-Oct-2020 11:14:29

Audit Action: Marked Compound Undetected

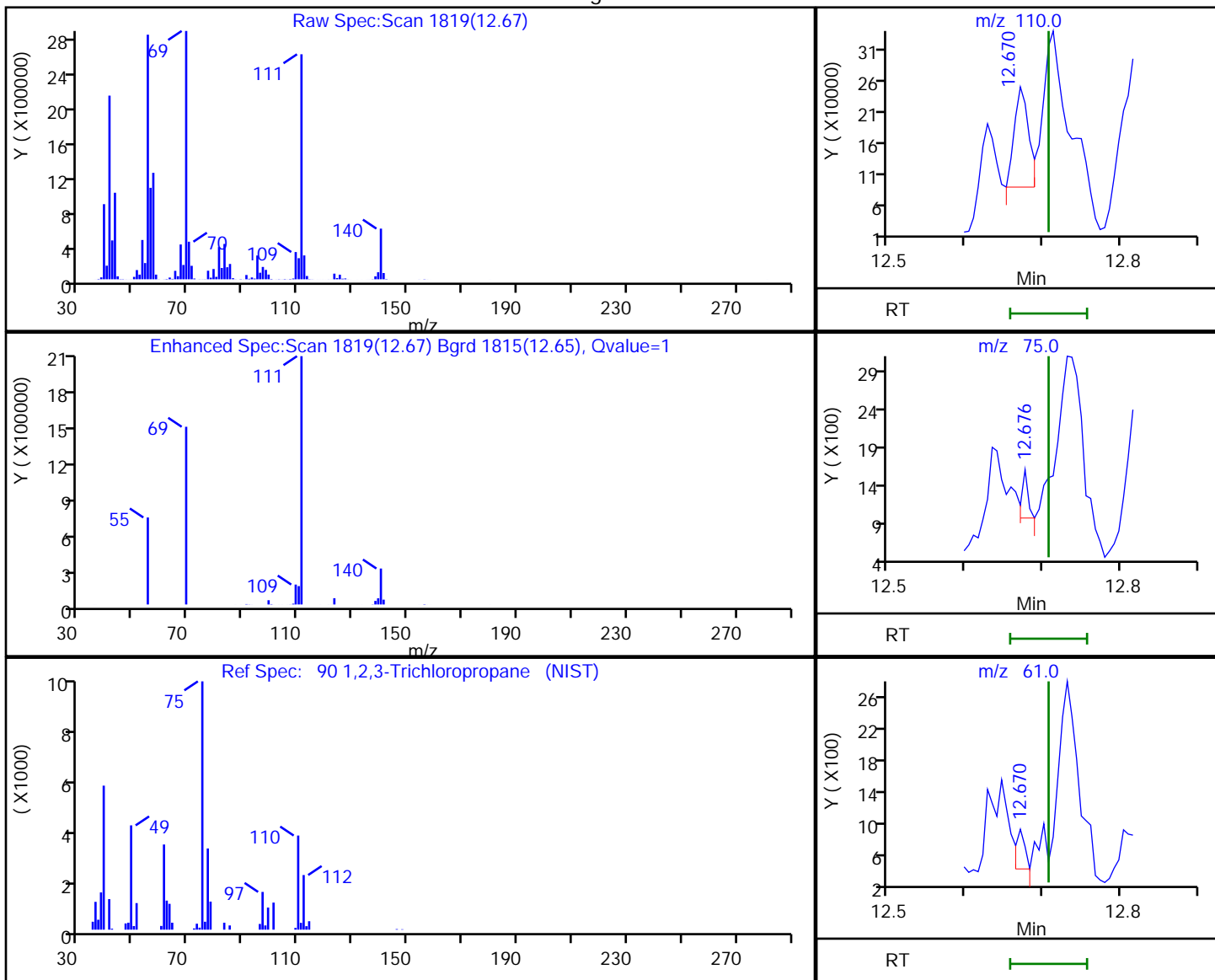
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
 Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
 Client ID: AB-03B-16.5  
 Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

90 1,2,3-Trichloropropane, CAS: 96-18-4

Processing Results



RT	Mass	Response	Amount
12.67	110.00	205519	112.4478
12.68	75.00	342	
12.67	61.00	380	

Reviewer: jantanuc, 09-Oct-2020 11:14:36

Audit Action: Marked Compound Undetected

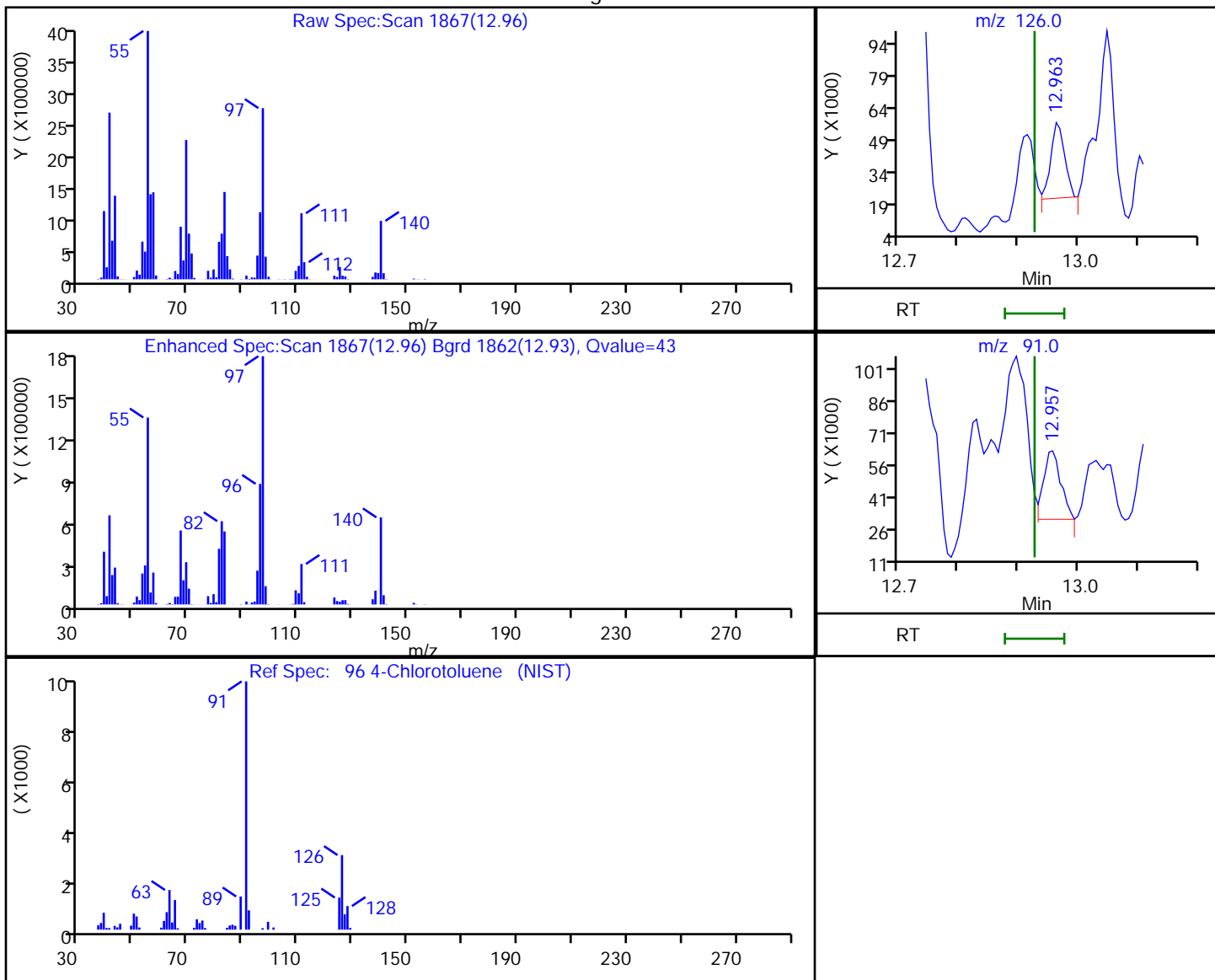
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
 Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
 Client ID: AB-03B-16.5  
 Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

96 4-Chlorotoluene, CAS: 106-43-4

Processing Results



RT	Mass	Response	Amount
12.96	126.00	57424	8.600108
12.96	91.00	64984	

Reviewer: jantanuc, 09-Oct-2020 11:14:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D

Injection Date: 07-Oct-2020 18:11:30

Instrument ID: TAC119

Lims ID: 580-98033-A-3-A

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: jsm

ALS Bottle#: 12

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

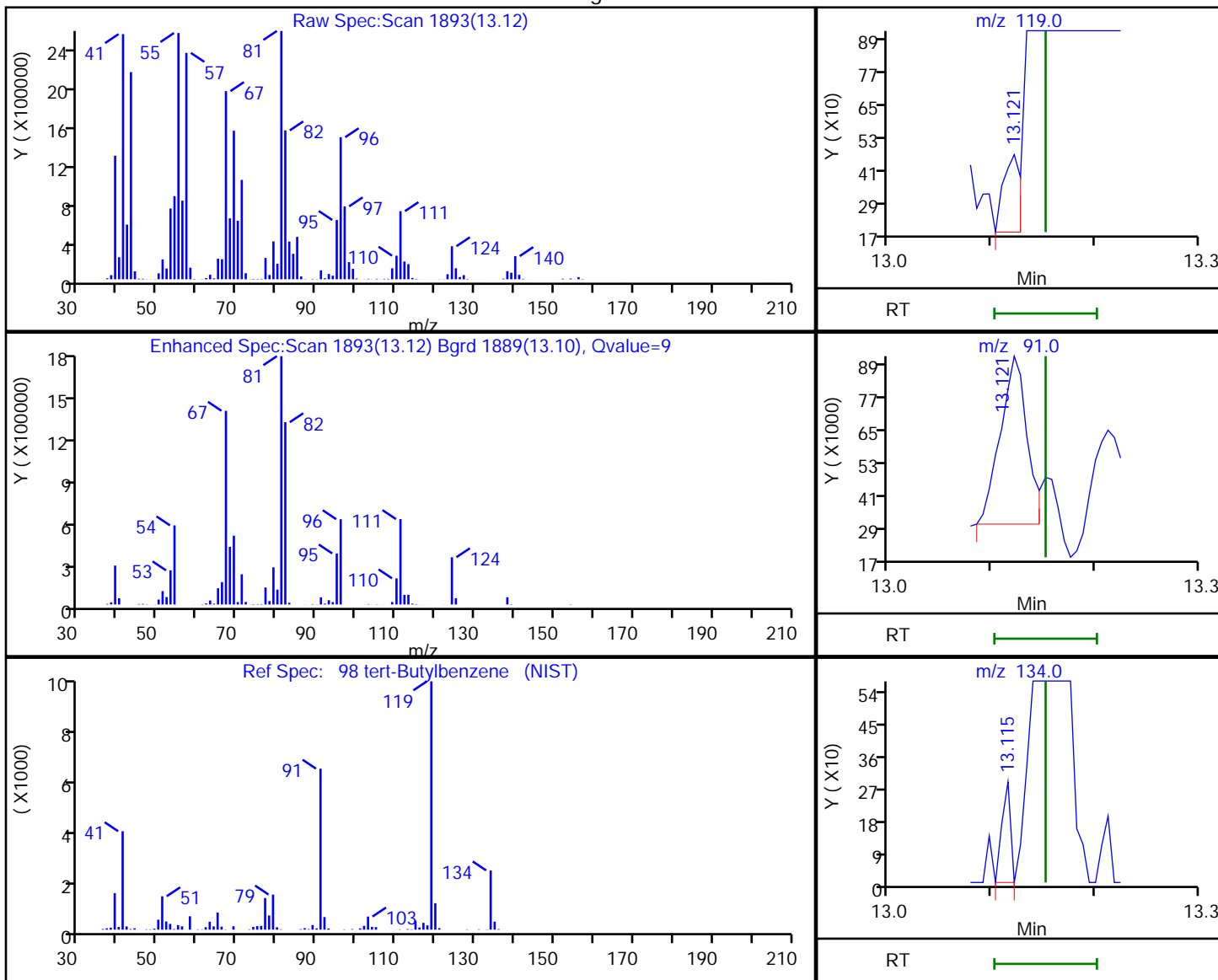
Limit Group: 8260C

Column:

Detector: MS SCAN

98 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
13.12	119.00	330	0.015598
13.12	91.00	111827	
13.12	134.00	164	

Reviewer: jantanuc, 09-Oct-2020 11:14:55

Audit Action: Marked Compound Undetected

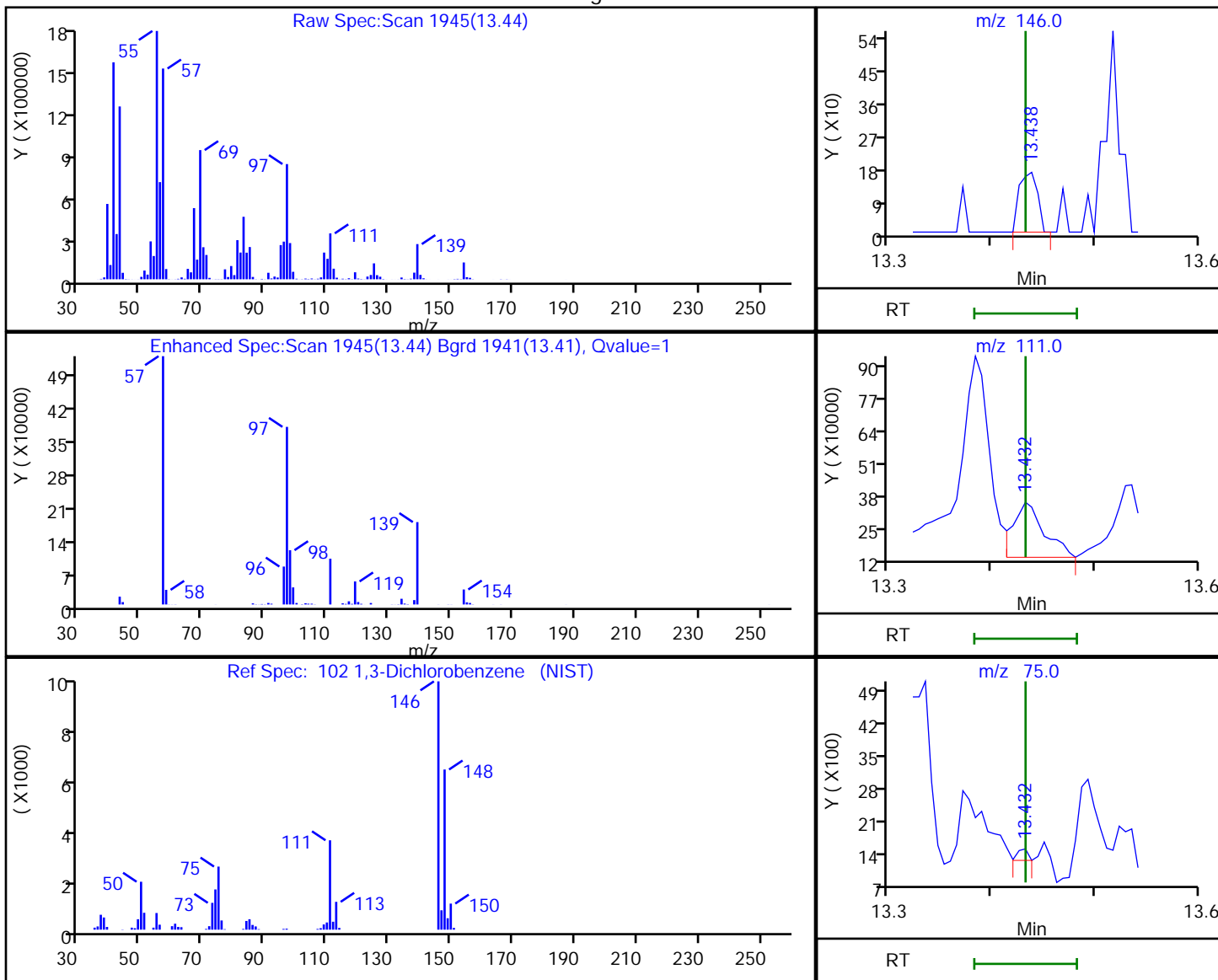
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
 Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
 Client ID: AB-03B-16.5  
 Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

102 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
13.44	146.00	203	0.017393
13.43	111.00	468508	
13.43	75.00	175	

Reviewer: jantanuc, 09-Oct-2020 11:15:10  
 Audit Action: Marked Compound Undetected

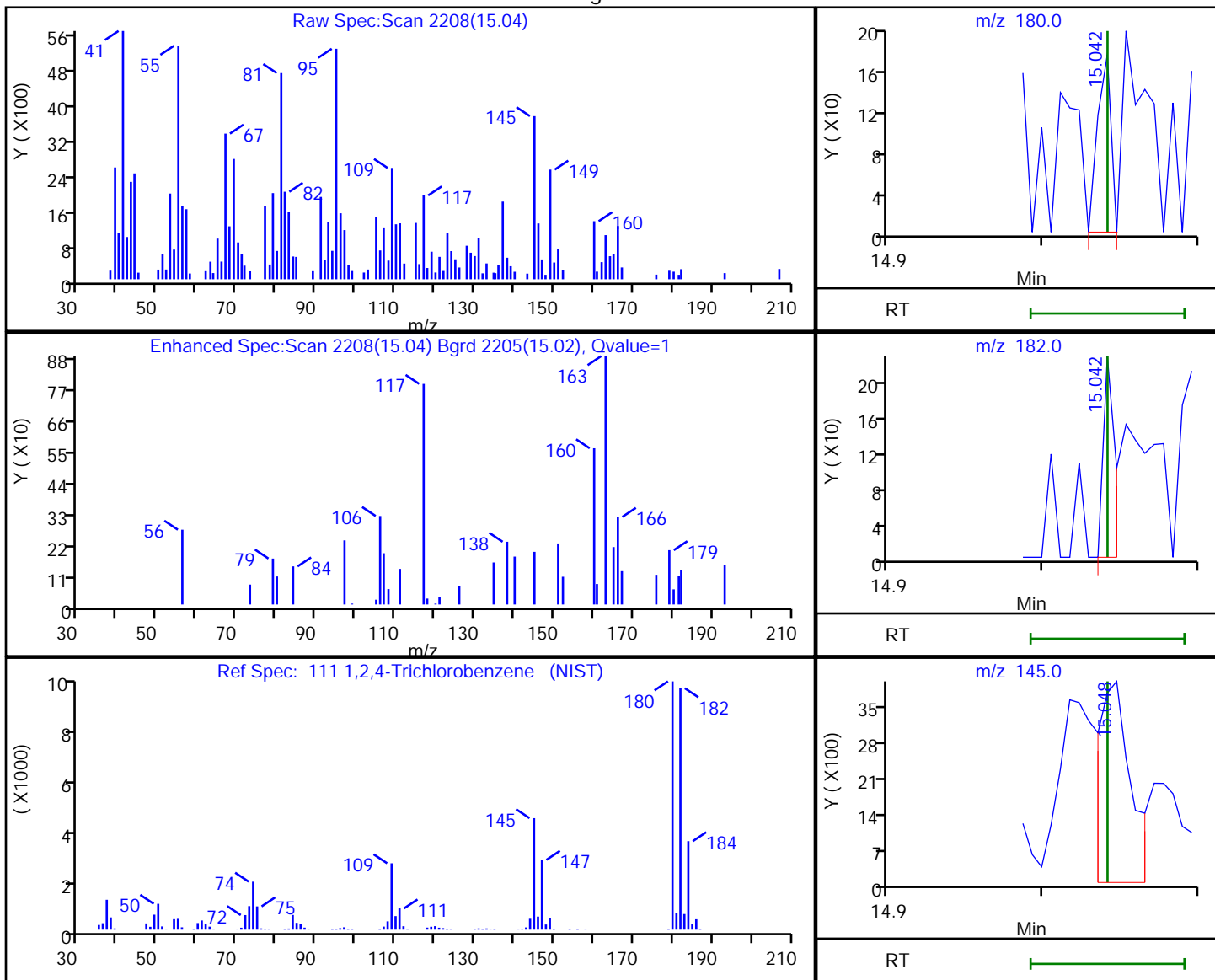
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
 Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
 Client ID: AB-03B-16.5  
 Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

111 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
15.04	180.00	105	0.022533
15.04	182.00	121	
15.05	145.00	5776	

Reviewer: jantanuc, 09-Oct-2020 11:15:51

Audit Action: Marked Compound Undetected

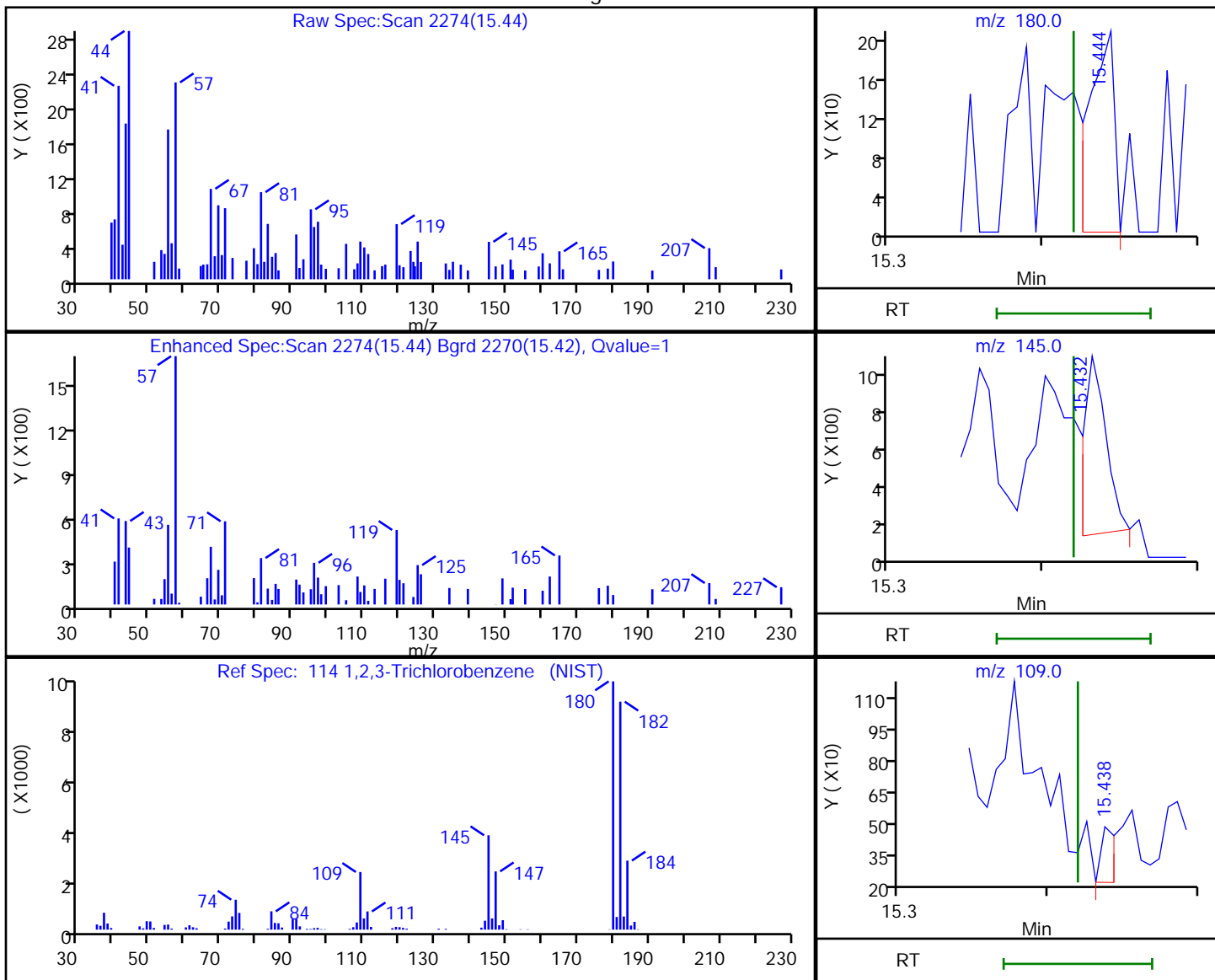
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
 Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
 Client ID: AB-03B-16.5  
 Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

114 1,2,3-Trichlorobenzene, CAS: 87-61-6

Processing Results



RT	Mass	Response	Amount
15.44	180.00	229	0.047737
15.43	145.00	900	
15.44	109.00	180	

Reviewer: jantanuc, 09-Oct-2020 11:15:55

Audit Action: Marked Compound Undetected

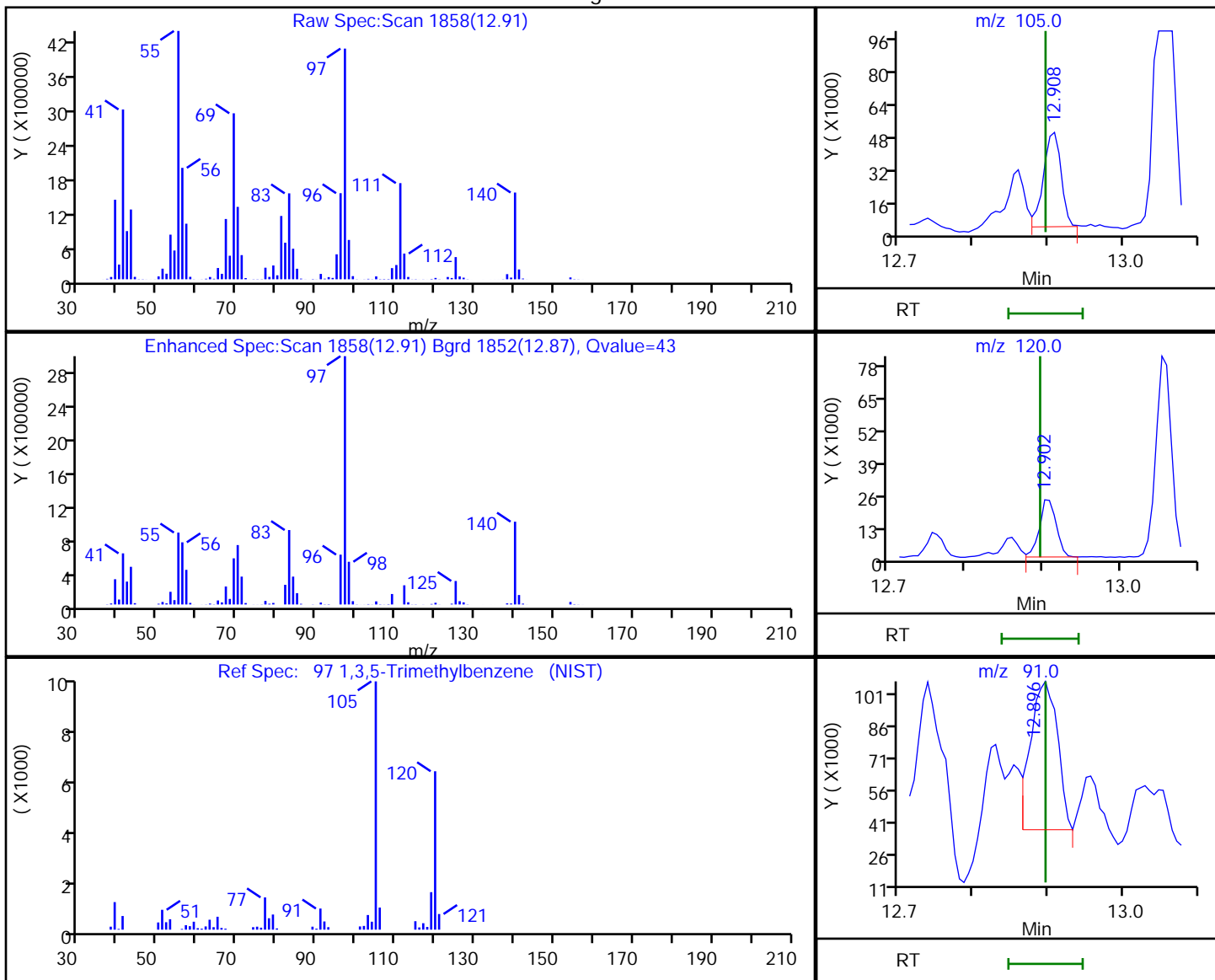
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
 Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
 Client ID: AB-03B-16.5  
 Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

97 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
12.91	105.00	77001	3.345105
12.90	120.00	35292	
12.90	91.00	176354	

Reviewer: jantanuc, 09-Oct-2020 11:14:40

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



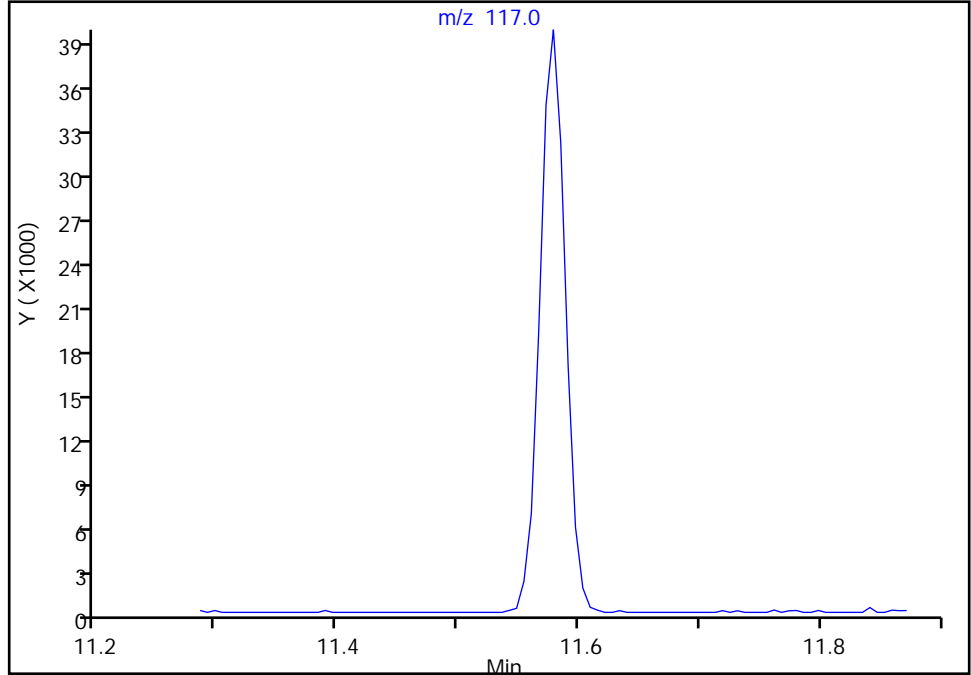
Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
Client ID: AB-03B-16.5  
Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

\* 81 Chlorobenzene-d5, CAS: 3114-55-4  
Signal: 1

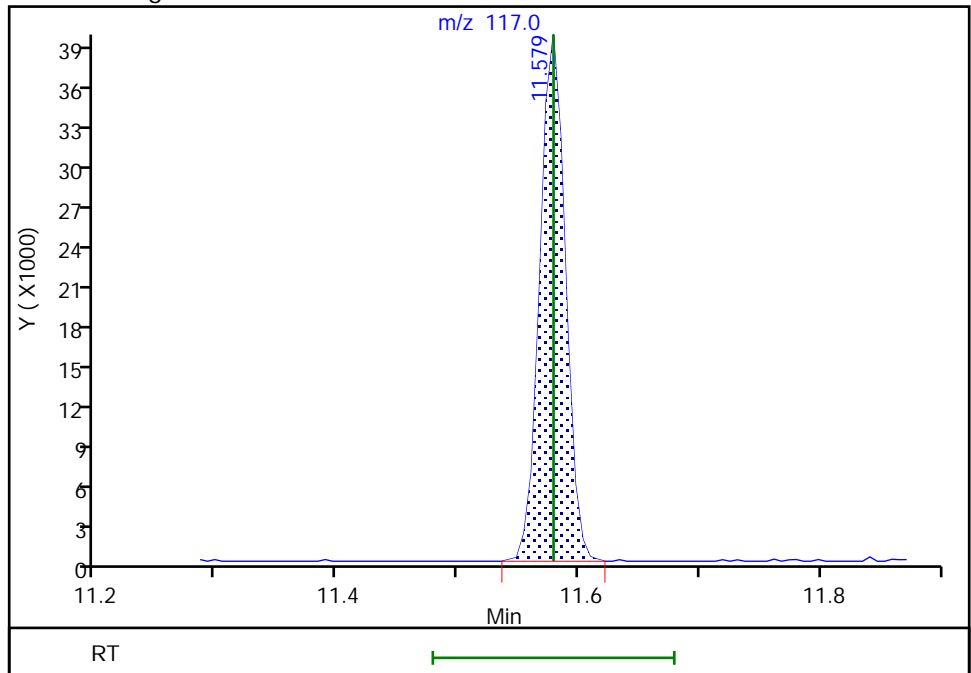
Not Detected  
Expected RT: 11.58

Processing Integration Results



Manual Integration Results

RT: 11.58  
Area: 57327  
Amount: 10.000000  
Amount Units: ug/L



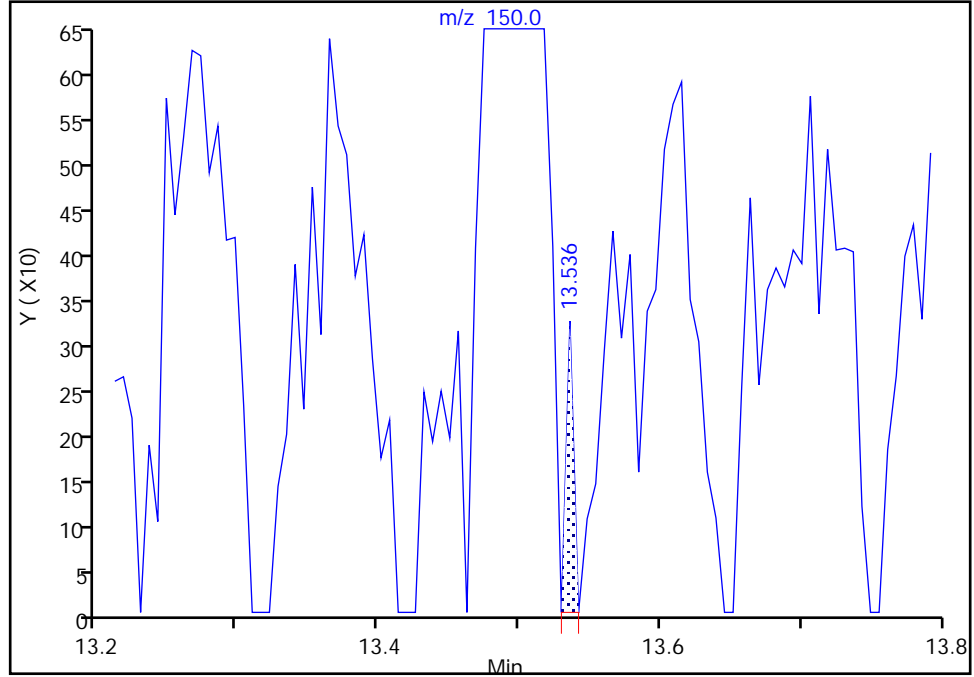
Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
Client ID: AB-03B-16.5  
Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

\* 103 1,4-Dichlorobenzene-d4, CAS: 3855-82-1  
Signal: 2

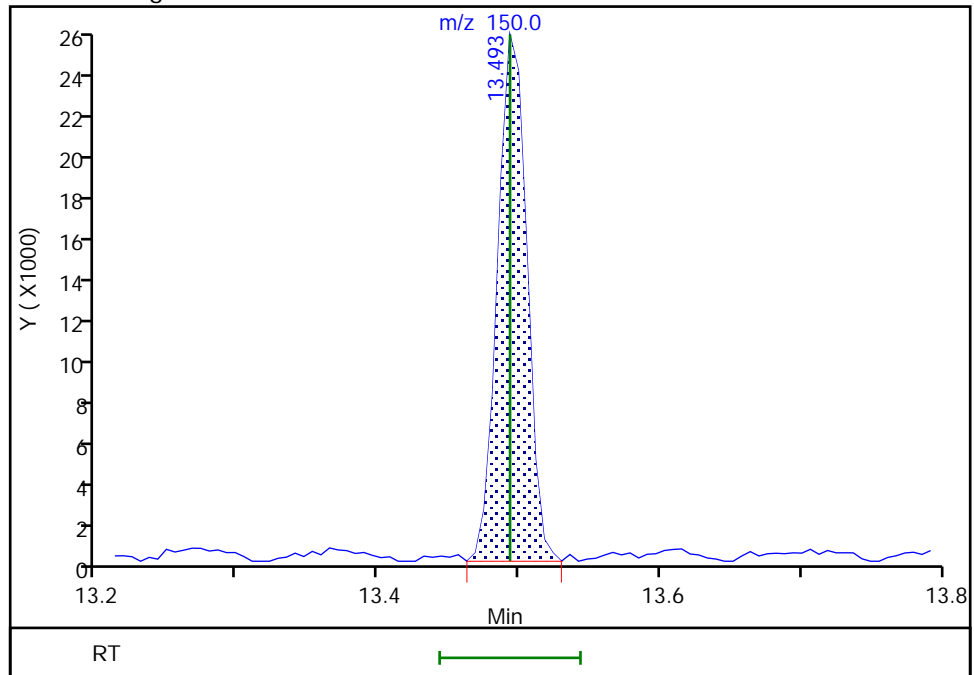
RT: 13.54  
Area: 118  
Amount: 10.000000  
Amount Units: ug/L

Processing Integration Results



RT: 13.49  
Area: 36356  
Amount: 10.000000  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 11:15:15  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

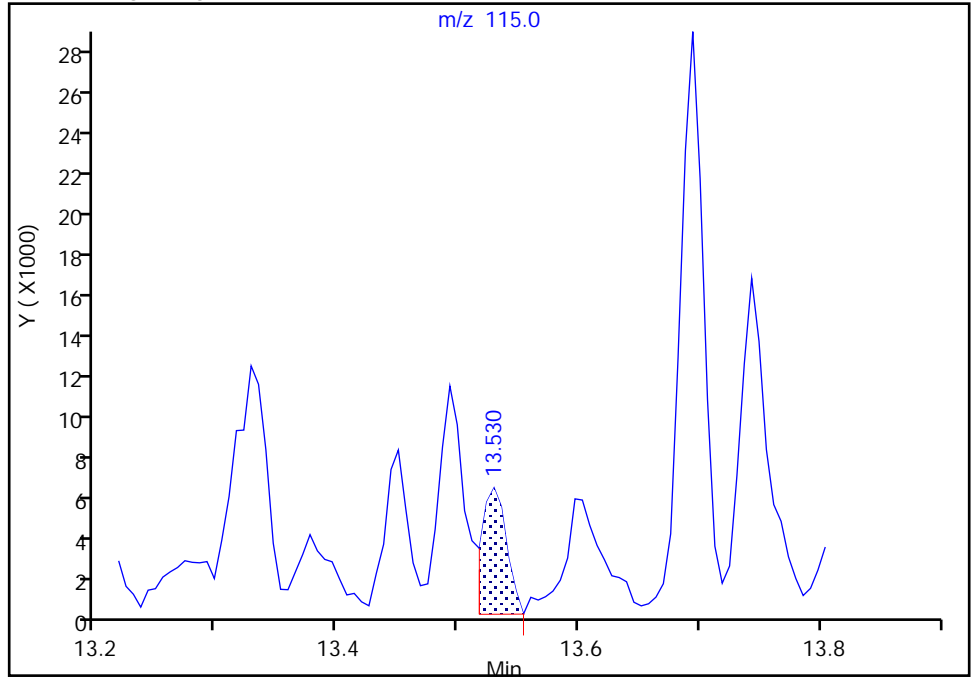
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
Client ID: AB-03B-16.5  
Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

\* 103 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 3

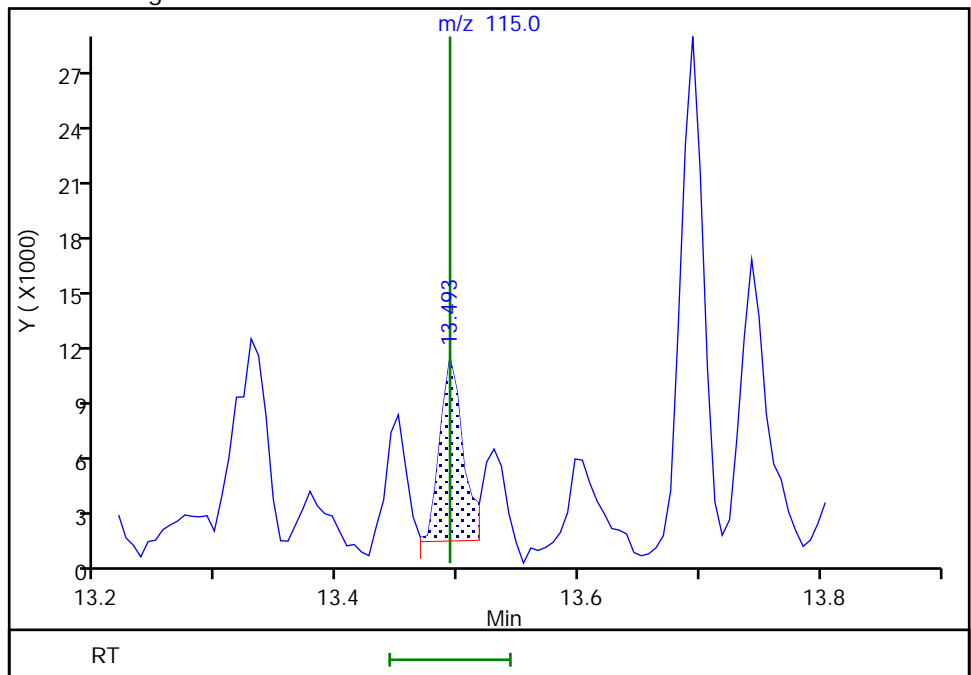
RT: 13.53  
Area: 8671  
Amount: 10.000000  
Amount Units: ug/L

Processing Integration Results



RT: 13.49  
Area: 13252  
Amount: 10.000000  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 11:15:15  
Audit Action: Marked Compound Undetected

Eurofins TestAmerica, Seattle

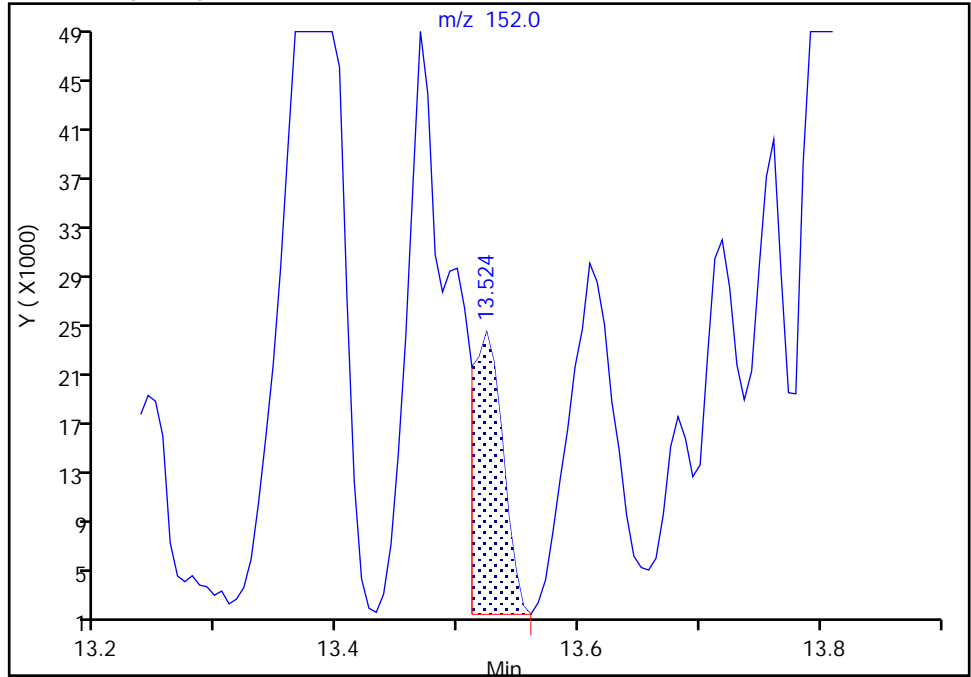
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_012.D  
Injection Date: 07-Oct-2020 18:11:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-3-A Lab Sample ID: 580-98033-3  
Client ID: AB-03B-16.5  
Operator ID: jsm ALS Bottle#: 12 Worklist Smp#: 12  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

\* 103 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

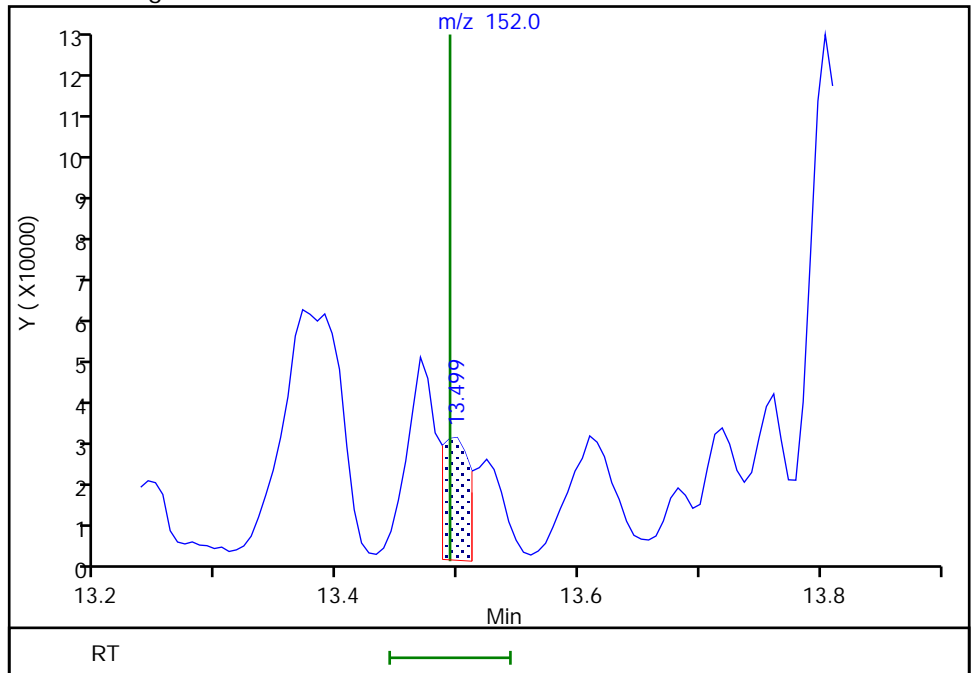
RT: 13.52  
Area: 40419  
Amount: 10.000000  
Amount Units: ug/L

Processing Integration Results



RT: 13.50  
Area: 48298  
Amount: 10.000000  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 11:15:27

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-03B-16.5 RA Lab Sample ID: 580-98033-3 RA  
 Matrix: Solid Lab File ID: 10142020\_013.D  
 Analysis Method: 8260D Date Collected: 10/05/2020 13:00  
 Sample wt/vol: 6.524(g) Date Analyzed: 10/14/2020 20:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 23.2 Level: (low/med) Low  
 Analysis Batch No.: 340807 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-63-6	1,2,4-Trimethylbenzene	13		5.0	
135-98-8	sec-Butylbenzene	21		3.0	
99-87-6	4-Isopropyltoluene	ND		2.0	
104-51-8	n-Butylbenzene	ND		3.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	113		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		80-121
460-00-4	4-Bromofluorobenzene (Surr)	84		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_013.D  
 Lims ID: 580-98033-A-3-B  
 Client ID: AB-03B-16.5  
 Sample Type: Client  
 Inject. Date: 14-Oct-2020 20:23:30 ALS Bottle#: 13 Worklist Smp#: 16  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-3  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Oct-2020 12:54:45 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 11:33:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	49192	200.0	
28 Methyl tert-butyl ether	73	5.074	5.068	0.006	1	76	0.0115	
37 cis-1,2-Dichloroethene	96	6.940	6.921	0.019	54	5025	2.25	M
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.738	-0.006	56	20040	9.50	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	27654	9.62	
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	97	79286	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	73	92222	11.3	
74 Toluene	91	10.335	10.341	-0.006	23	956	0.0951	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	42	64829	10.0	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	22	19722	8.42	
99 1,2,4-Trimethylbenzene	105	13.201	13.194	0.007	44	155006	12.7	
100 sec-Butylbenzene	105	13.329	13.322	0.007	60	326812	20.6	a
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	30	40174	10.0	M
112 Naphthalene	128	15.249	15.249	0.000	16	5999	0.5680	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_013.D

Injection Date: 14-Oct-2020 20:23:30

Instrument ID: TAC119

Lims ID: 580-98033-A-3-B

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: cjb

ALS Bottle#: 13

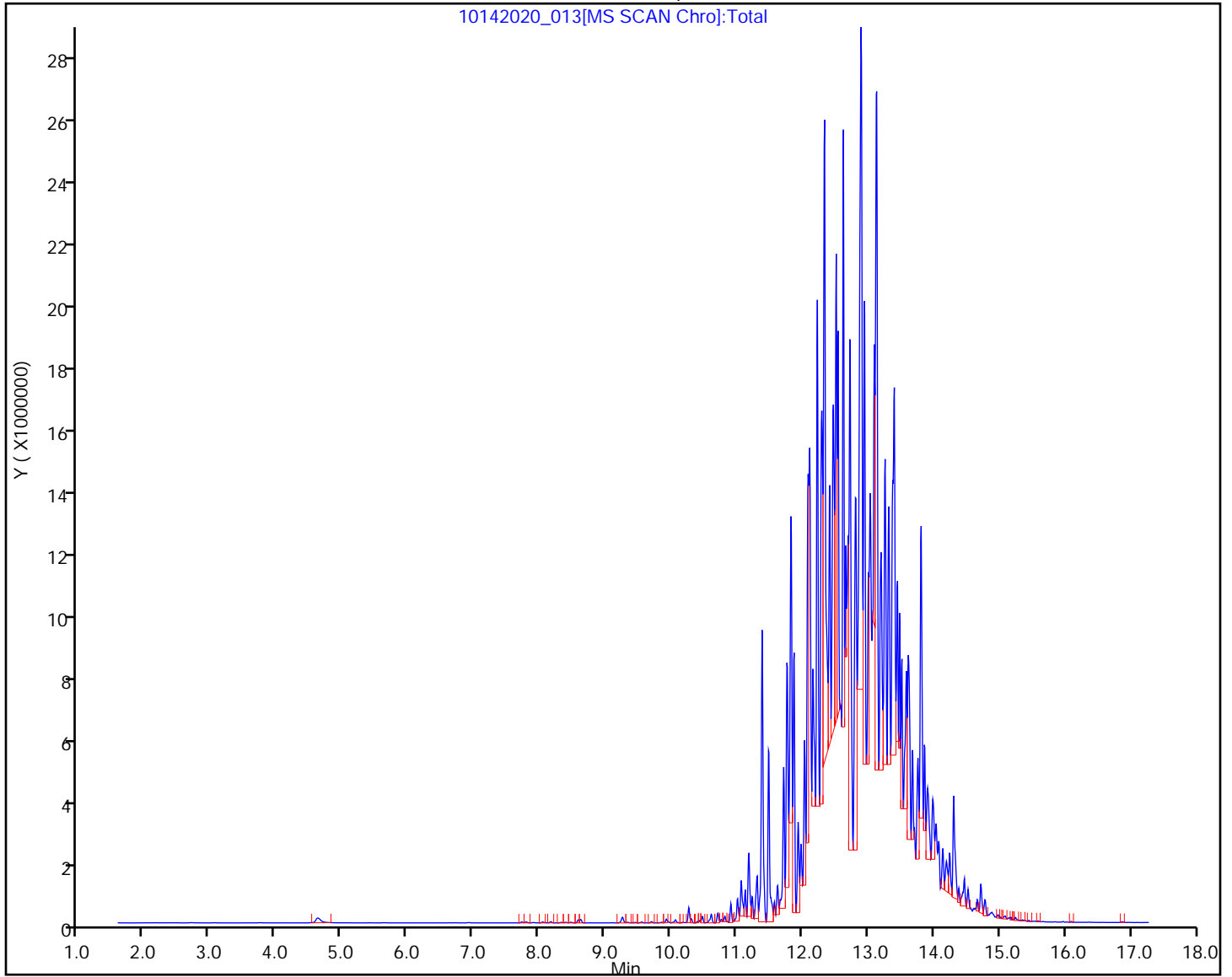
Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_013.D  
 Lims ID: 580-98033-A-3-B  
 Client ID: AB-03B-16.5  
 Sample Type: Client  
 Inject. Date: 14-Oct-2020 20:23:30 ALS Bottle#: 13 Worklist Smp#: 16  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-3  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Oct-2020 12:54:45 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1625

First Level Reviewer: limwirojt

Date: 15-Oct-2020 11:33:55

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	9.50	94.99
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	9.62	96.23
\$ 64 Trifluorotoluene (Surr)	0.0	0	0.00
\$ 72 Toluene-d8 (Surr)	10.0	11.3	113.16
\$ 92 4-Bromofluorobenzene (Surr)	10.0	8.42	84.19
\$ 118 BFB	0.0	0	0.00



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_013.D

Injection Date: 14-Oct-2020 20:23:30

Instrument ID: TAC119

Lims ID: 580-98033-A-3-B

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: cjb

ALS Bottle#: 13

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

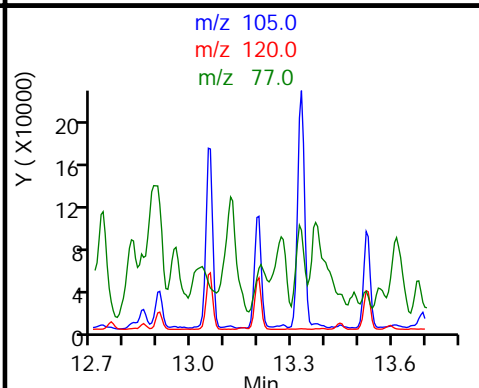
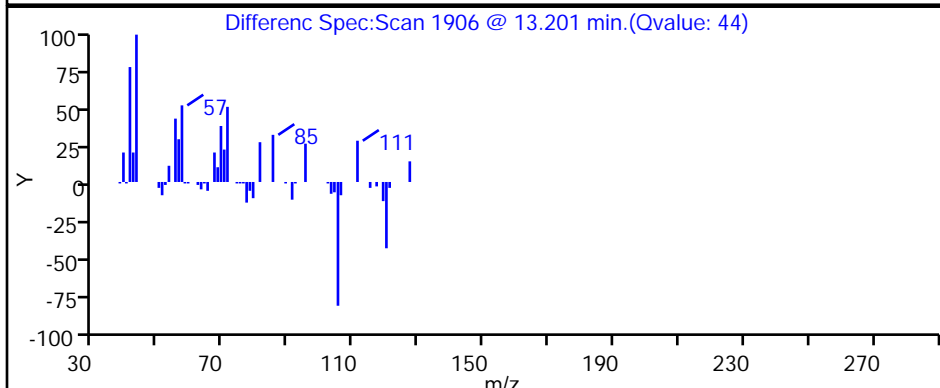
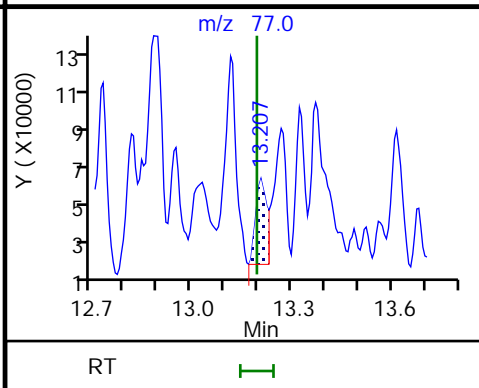
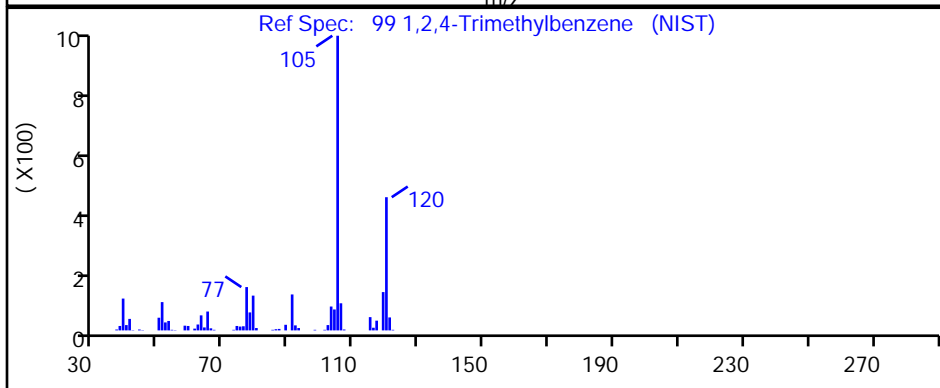
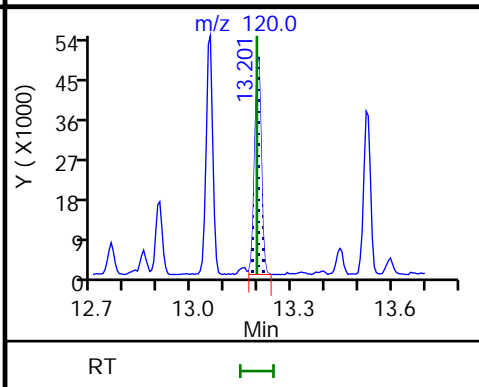
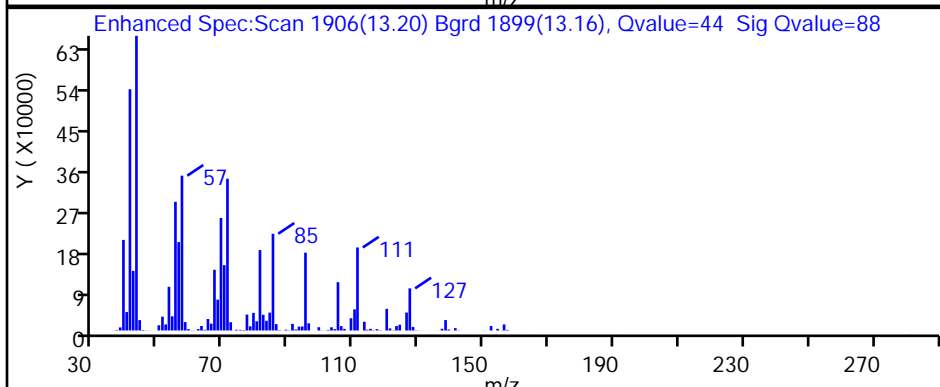
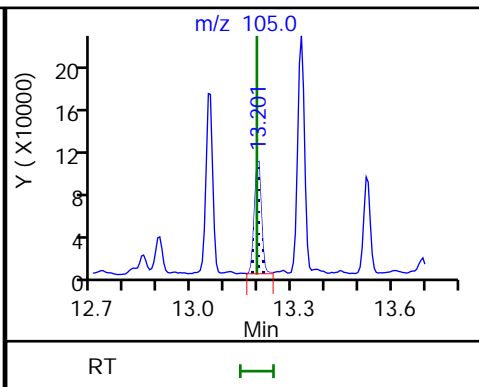
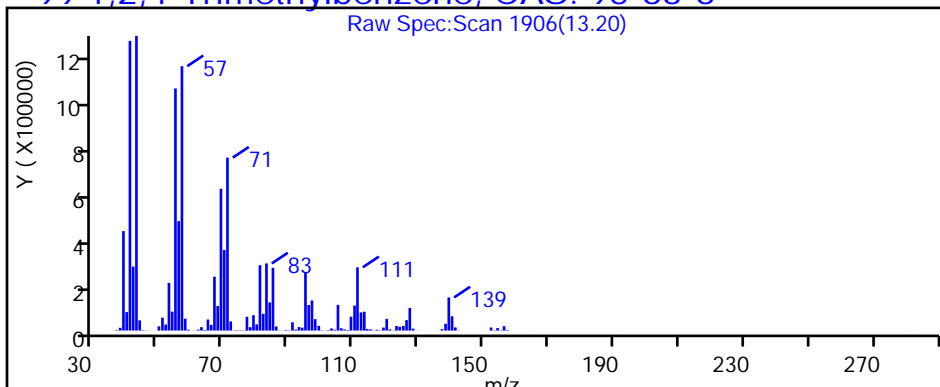
Method: DSS TAC119

Limit Group: 8260C

Column:

Detector MS SCAN

99 1,2,4-Trimethylbenzene, CAS: 95-63-6



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_013.D

Injection Date: 14-Oct-2020 20:23:30

Instrument ID: TAC119

Lims ID: 580-98033-A-3-B

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: cjb

ALS Bottle#: 13

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

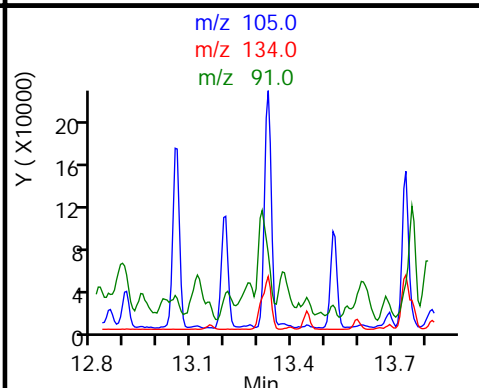
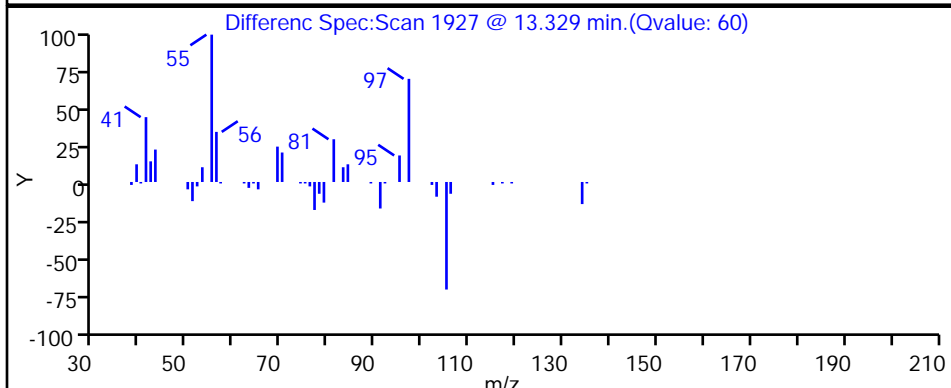
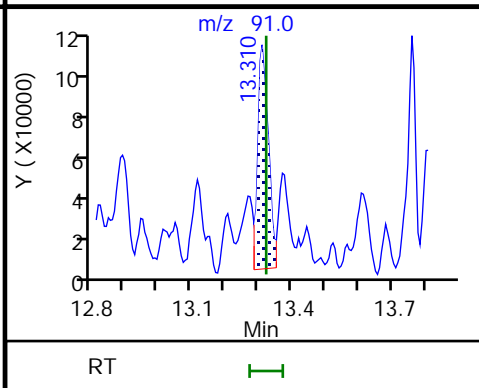
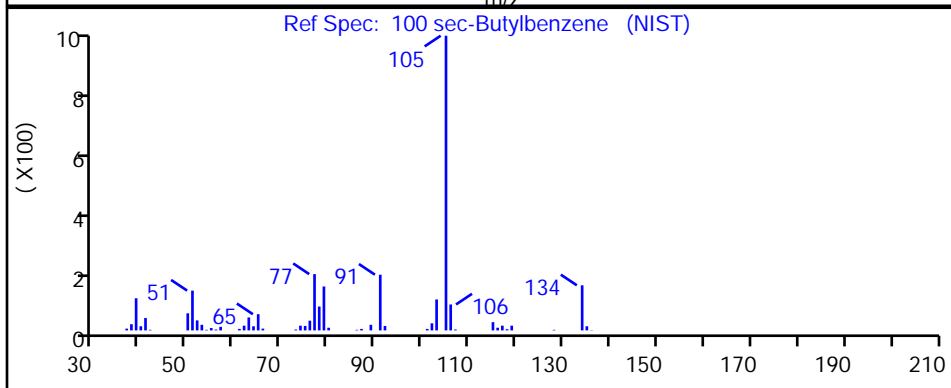
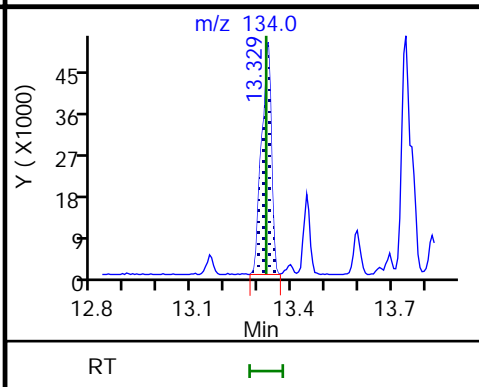
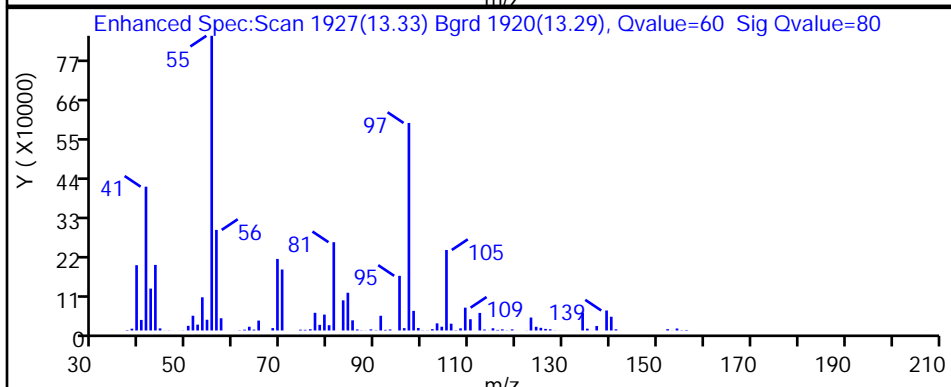
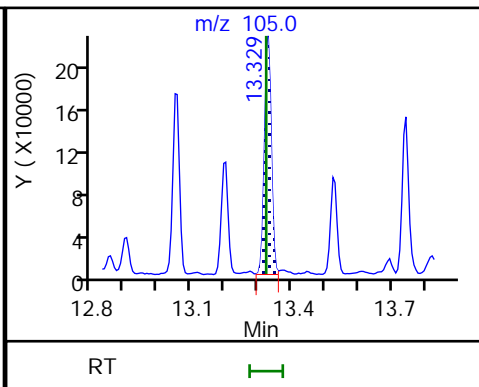
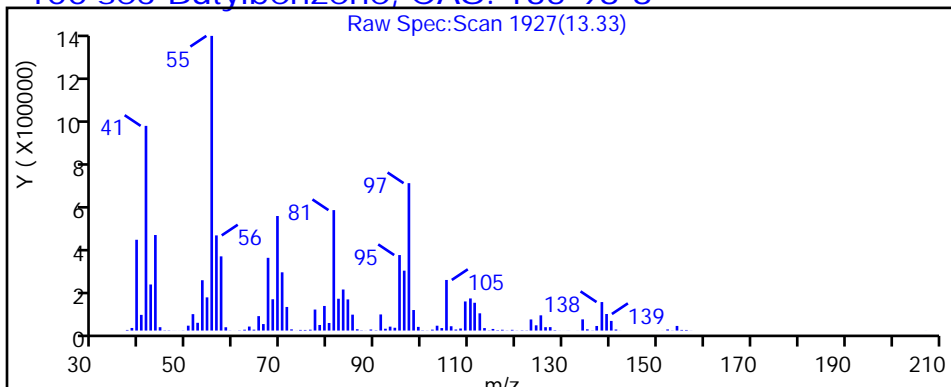
Method: DSS TAC119

Limit Group: 8260C

Column:

Detector MS SCAN

### 100 sec-Butylbenzene, CAS: 135-98-8



Eurofins TestAmerica, Seattle

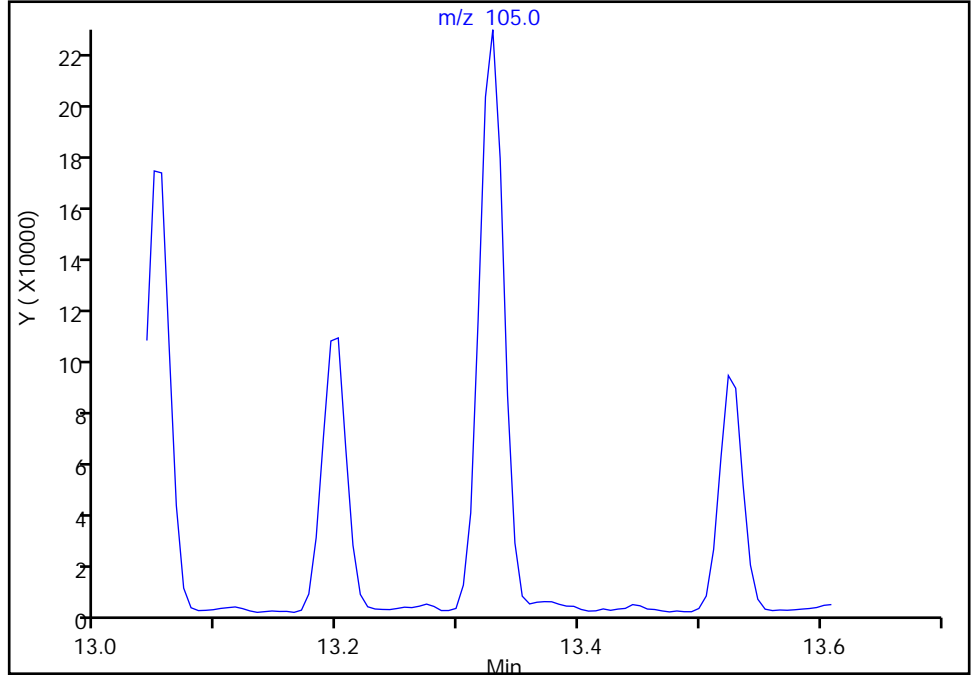
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Injection Date: 14-Oct-2020 20:23:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-3-B Lab Sample ID: 580-98033-3  
Client ID: AB-03B-16.5  
Operator ID: cjb ALS Bottle#: 13 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

100 sec-Butylbenzene, CAS: 135-98-8

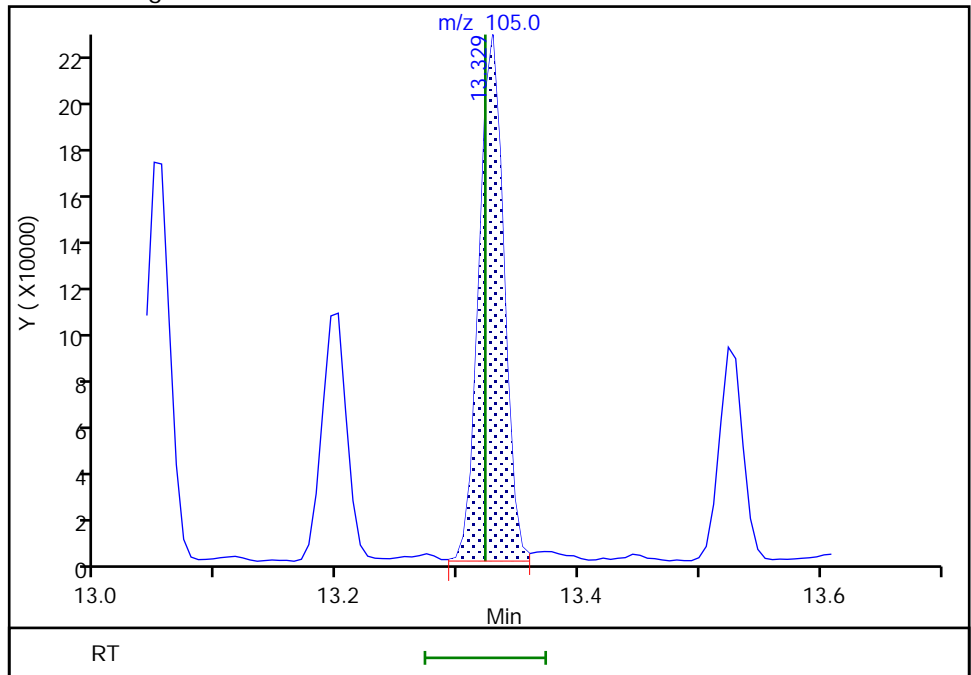
Signal: 1

Not Detected  
Expected RT: 13.32

Processing Integration Results



Manual Integration Results



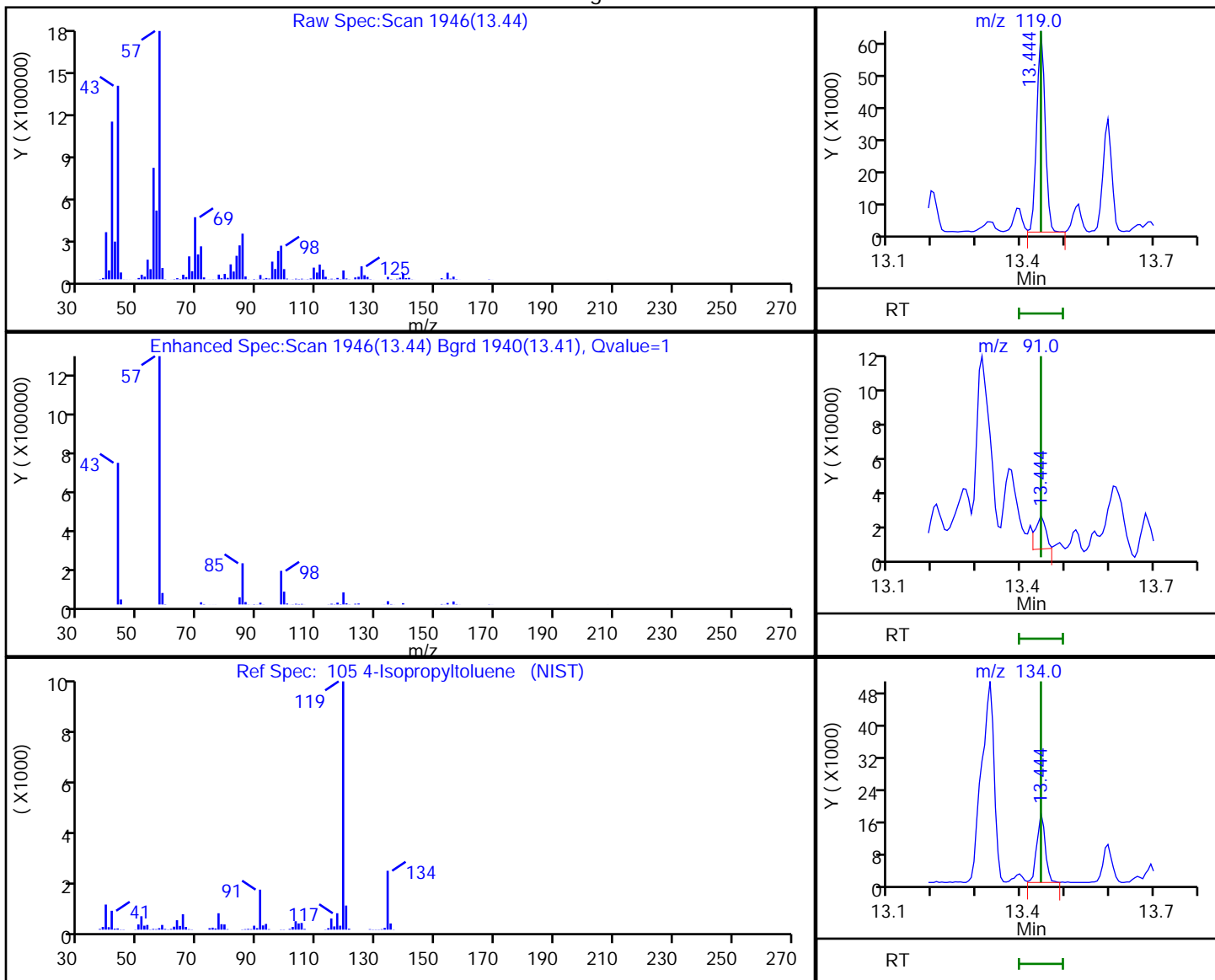
RT: 13.33  
Area: 326812  
Amount: 20.602660  
Amount Units: ug/L

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_013.D  
 Injection Date: 14-Oct-2020 20:23:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-3-B Lab Sample ID: 580-98033-3  
 Client ID: AB-03B-16.5  
 Operator ID: cjb ALS Bottle#: 13 Worklist Smp#: 16  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

105 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
13.44	119.00	84002	4.767471
13.44	91.00	28276	
13.44	134.00	23048	

Reviewer: limwirojt, 15-Oct-2020 11:30:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

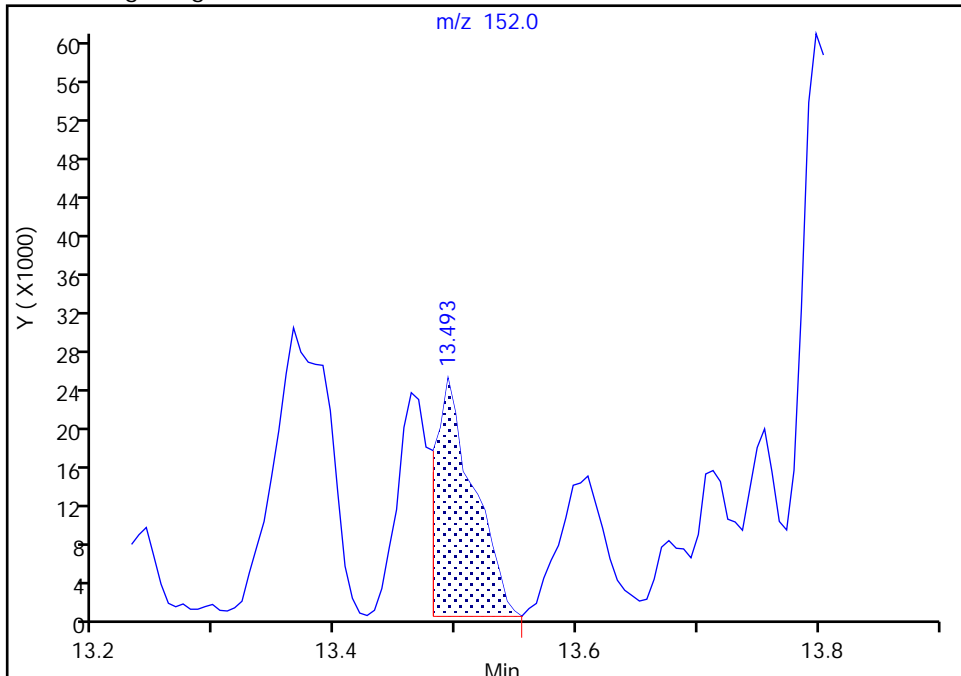
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Injection Date: 14-Oct-2020 20:23:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-3-B Lab Sample ID: 580-98033-3  
Client ID: AB-03B-16.5  
Operator ID: cjb ALS Bottle#: 13 Worklist Smp#: 16  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

\* 103 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

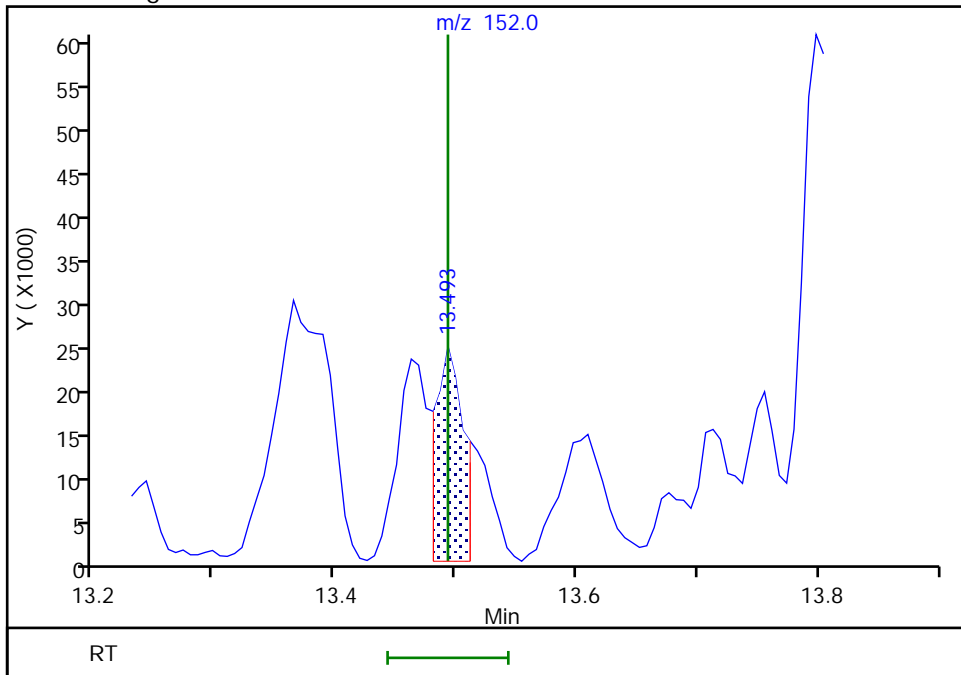
RT: 13.49  
Area: 53806  
Amount: 10.000000  
Amount Units: ug/L

Processing Integration Results



RT: 13.49  
Area: 40174  
Amount: 10.000000  
Amount Units: ug/L

Manual Integration Results



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-04B-16.5 Lab Sample ID: 580-98033-4  
 Matrix: Solid Lab File ID: 10072020\_013.D  
 Analysis Method: 8260D Date Collected: 10/05/2020 13:40  
 Sample wt/vol: 6.733(g) Date Analyzed: 10/07/2020 18:37  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 24.3 Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	ND		2.0	
74-87-3	Chloromethane	ND		4.9	
75-01-4	Vinyl chloride	ND		2.0	
74-83-9	Bromomethane	ND		0.98	
75-00-3	Chloroethane	ND		9.8	
75-69-4	Trichlorofluoromethane	ND		2.0	
75-35-4	1,1-Dichloroethene	ND		4.9	
75-09-2	Methylene Chloride	ND		39	
1634-04-4	Methyl tert-butyl ether	ND		2.0	
156-60-5	trans-1,2-Dichloroethene	ND		2.0	
75-34-3	1,1-Dichloroethane	ND		0.98	
594-20-7	2,2-Dichloropropane	ND		4.9	
156-59-2	cis-1,2-Dichloroethene	5.5		2.9	
74-97-5	Chlorobromomethane	ND		2.0	
67-66-3	Chloroform	ND		2.0	
71-55-6	1,1,1-Trichloroethane	ND		2.0	
56-23-5	Carbon tetrachloride	ND		2.0	
563-58-6	1,1-Dichloropropene	ND		2.0	
71-43-2	Benzene	ND		2.0	
107-06-2	1,2-Dichloroethane	ND		0.98	
79-01-6	Trichloroethene	ND		2.0	
78-87-5	1,2-Dichloropropane	ND		2.0	
74-95-3	Dibromomethane	ND		0.98	
75-27-4	Dichlorobromomethane	ND		0.98	
10061-01-5	cis-1,3-Dichloropropene	ND		0.98	
108-88-3	Toluene	ND		9.8	
10061-02-6	trans-1,3-Dichloropropene	ND		9.8	
79-00-5	1,1,2-Trichloroethane	ND	*	2.0	
127-18-4	Tetrachloroethene	ND		2.0	
142-28-9	1,3-Dichloropropane	ND	*	2.0	
124-48-1	Chlorodibromomethane	ND		1.5	
106-93-4	Ethylene Dibromide	ND		0.98	
108-90-7	Chlorobenzene	ND		2.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.9	
100-41-4	Ethylbenzene	ND		2.0	
179601-23-1	m-Xylene & p-Xylene	ND		9.8	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-04B-16.5 Lab Sample ID: 580-98033-4  
 Matrix: Solid Lab File ID: 10072020\_013.D  
 Analysis Method: 8260D Date Collected: 10/05/2020 13:40  
 Sample wt/vol: 6.733(g) Date Analyzed: 10/07/2020 18:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: 24.3 Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	ND		4.9	
100-42-5	Styrene	ND		2.9	
75-25-2	Bromoform	ND		4.9	
98-82-8	Isopropylbenzene	ND		2.0	
108-86-1	Bromobenzene	ND		9.8	
79-34-5	1,1,2,2-Tetrachloroethane	ND	*	3.9	
96-18-4	1,2,3-Trichloropropane	ND		4.9	
103-65-1	N-Propylbenzene	ND		4.9	
95-49-8	2-Chlorotoluene	ND		4.9	
106-43-4	4-Chlorotoluene	ND		4.9	
98-06-6	tert-Butylbenzene	ND		2.9	
95-63-6	1,2,4-Trimethylbenzene	ND		4.9	
135-98-8	sec-Butylbenzene	ND		2.9	
99-87-6	4-Isopropyltoluene	ND		2.0	
541-73-1	1,3-Dichlorobenzene	ND		4.9	
106-46-7	1,4-Dichlorobenzene	ND		4.9	
104-51-8	n-Butylbenzene	ND		2.9	
95-50-1	1,2-Dichlorobenzene	ND		9.8	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		9.8	
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	
87-68-3	Hexachlorobutadiene	ND		2.9	
91-20-3	Naphthalene	ND		9.8	
87-61-6	1,2,3-Trichlorobenzene	ND		2.9	
108-67-8	1,3,5-Trimethylbenzene	ND		4.9	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		80-121
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_013.D  
 Lims ID: 580-98033-A-4-A  
 Client ID: AB-04B-16.5  
 Sample Type: Client  
 Inject. Date: 07-Oct-2020 18:37:30 ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-4  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 11:26:27 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc Date: 09-Oct-2020 11:26:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
23 Methylene Chloride	84	4.550	4.538	0.012	50	2159	-2.12	M
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	53324	200.0	
37 cis-1,2-Dichloroethene	96	6.921	6.927	-0.006	70	12235	5.60	M
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.738	-0.006	62	19941	9.68	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	26768	9.53	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	97	77457	10.0	
61 Trichloroethene	132	9.018	9.025	-0.007	79	3707	1.66	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	78749	10.1	
79 Tetrachloroethene	164	10.817	10.817	0.000	60	2764	1.49	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	91	61744	10.0	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	542	0.0623	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	82	23071	10.3	
* 103 1,4-Dichlorobenzene-d4	152	13.487	13.493	-0.006	92	26890	10.0	
112 Naphthalene	128	15.243	15.249	-0.006	1	827	0.1170	a

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

5X SUR/IS\_00001 Amount Added: 1.00 Units: uL Run Reagent



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_013.D

Injection Date: 07-Oct-2020 18:37:30

Instrument ID: TAC119

Lims ID: 580-98033-A-4-A

Lab Sample ID: 580-98033-4

Client ID: AB-04B-16.5

Operator ID: jsm

ALS Bottle#: 13

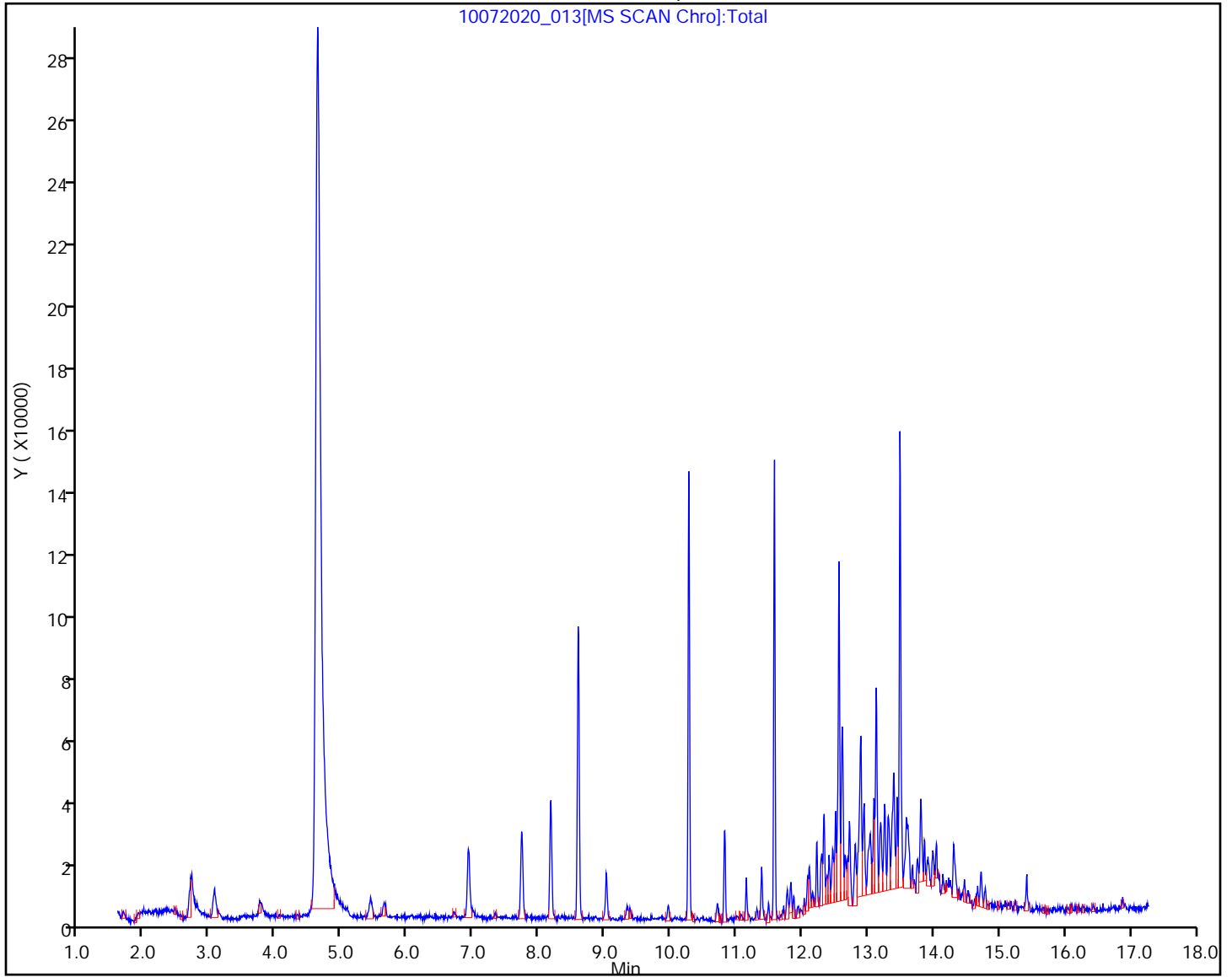
Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_013.D  
 Lims ID: 580-98033-A-4-A  
 Client ID: AB-04B-16.5  
 Sample Type: Client  
 Inject. Date: 07-Oct-2020 18:37:30 ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-4  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 11:26:27 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc

Date: 09-Oct-2020 11:26:27

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	9.68	96.76
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	9.53	95.35
\$ 64 Trifluorotoluene (Surr)	0.0	0	0.00
\$ 72 Toluene-d8 (Surr)	10.0	10.1	101.45
\$ 92 4-Bromofluorobenzene (Surr)	10.0	10.3	103.41
\$ 118 BFB	0.0	0	0.00

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_013.D

Injection Date: 07-Oct-2020 18:37:30

Instrument ID: TAC119

Lims ID: 580-98033-A-4-A

Lab Sample ID: 580-98033-4

Client ID: AB-04B-16.5

Operator ID: jsm

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

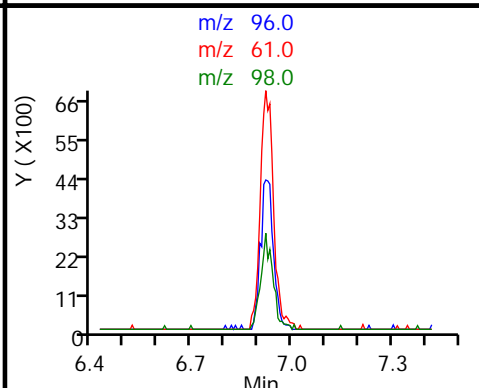
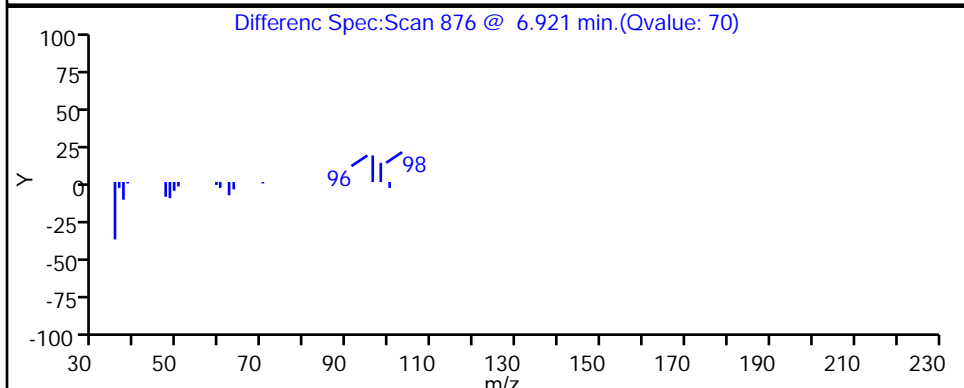
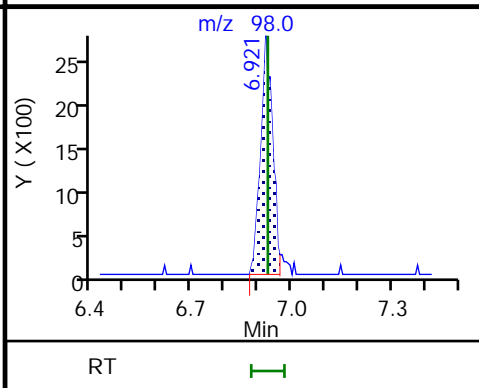
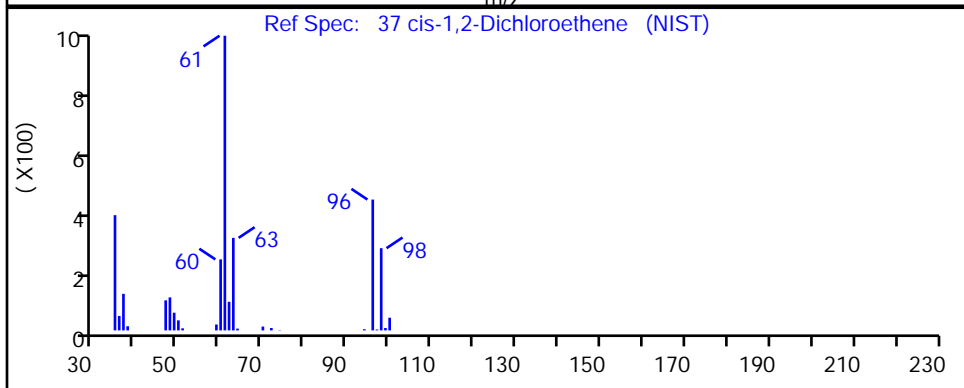
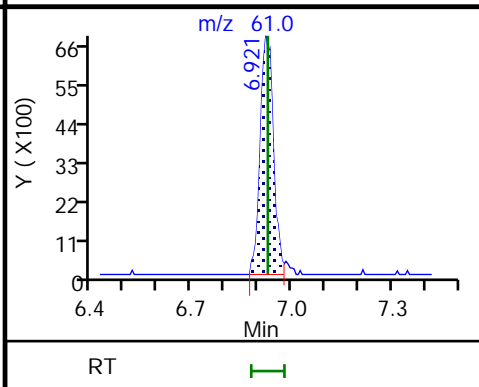
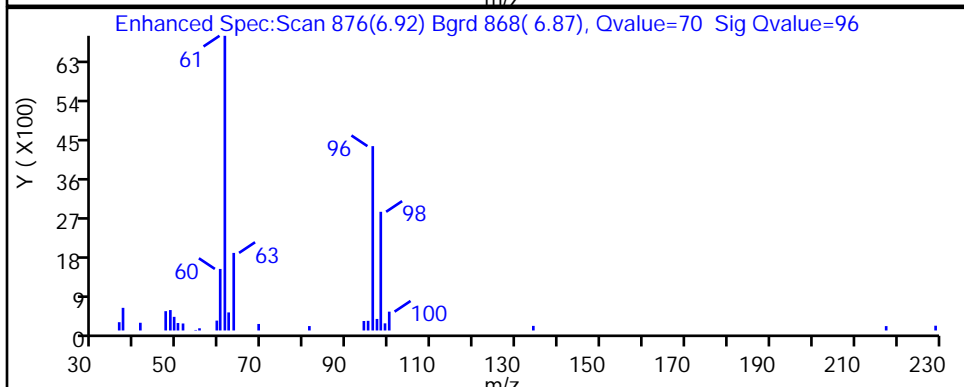
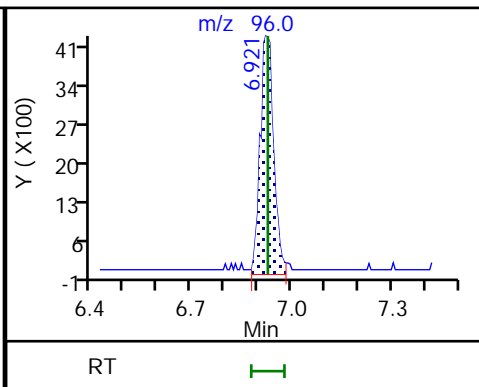
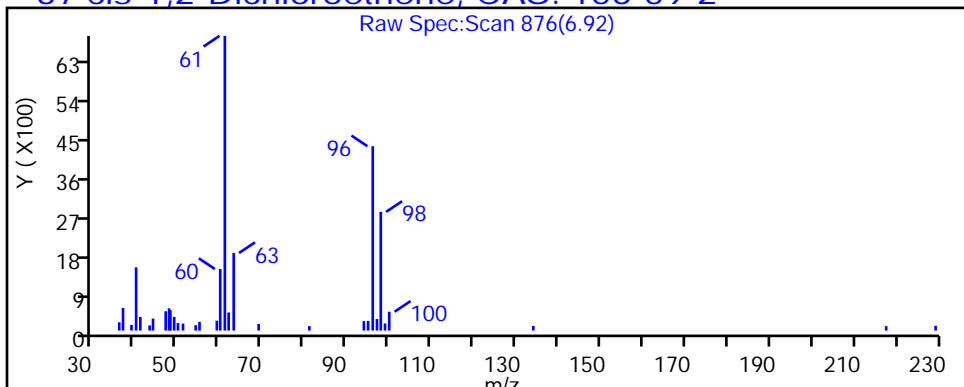
Method: DSS TAC119

Limit Group: 8260C

Column:

Detector MS SCAN

### 37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins TestAmerica, Seattle

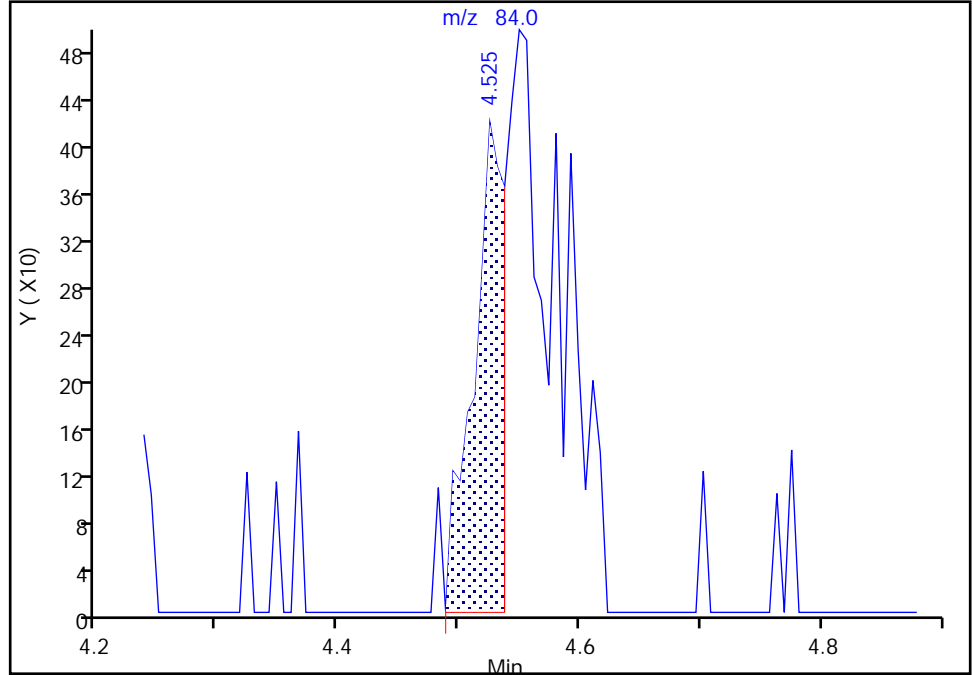
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_013.D  
Injection Date: 07-Oct-2020 18:37:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-4-A Lab Sample ID: 580-98033-4  
Client ID: AB-04B-16.5  
Operator ID: jsm ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

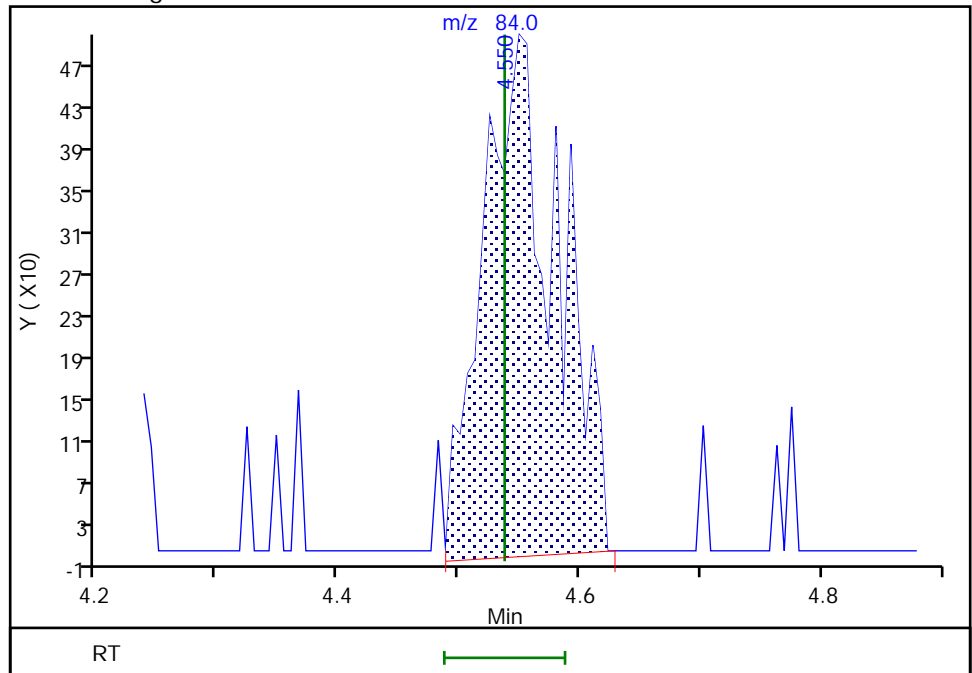
RT: 4.53  
Area: 745  
Amount: -3.074386  
Amount Units: ug/L

Processing Integration Results



RT: 4.55  
Area: 2159  
Amount: -2.121438  
Amount Units: ug/L

Manual Integration Results



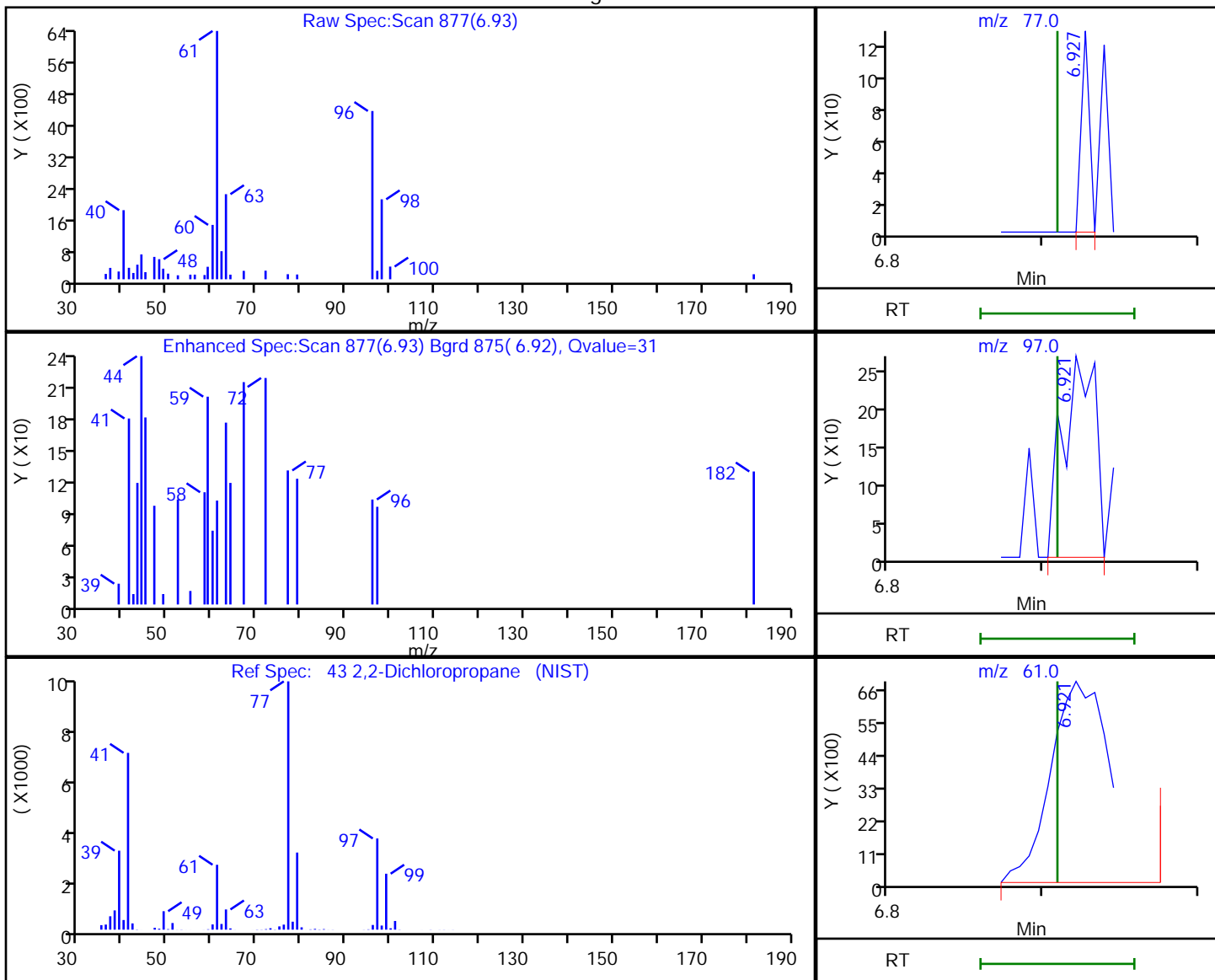
Reviewer: jantanuc, 09-Oct-2020 11:25:21  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_013.D  
 Injection Date: 07-Oct-2020 18:37:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-4-A Lab Sample ID: 580-98033-4  
 Client ID: AB-04B-16.5  
 Operator ID: jsm ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Processing Results



RT	Mass	Response	Amount
6.93	77.00	47	0.015443
6.92	97.00	387	
6.92	61.00	18670	

Reviewer: jantanuc, 09-Oct-2020 11:25:28

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

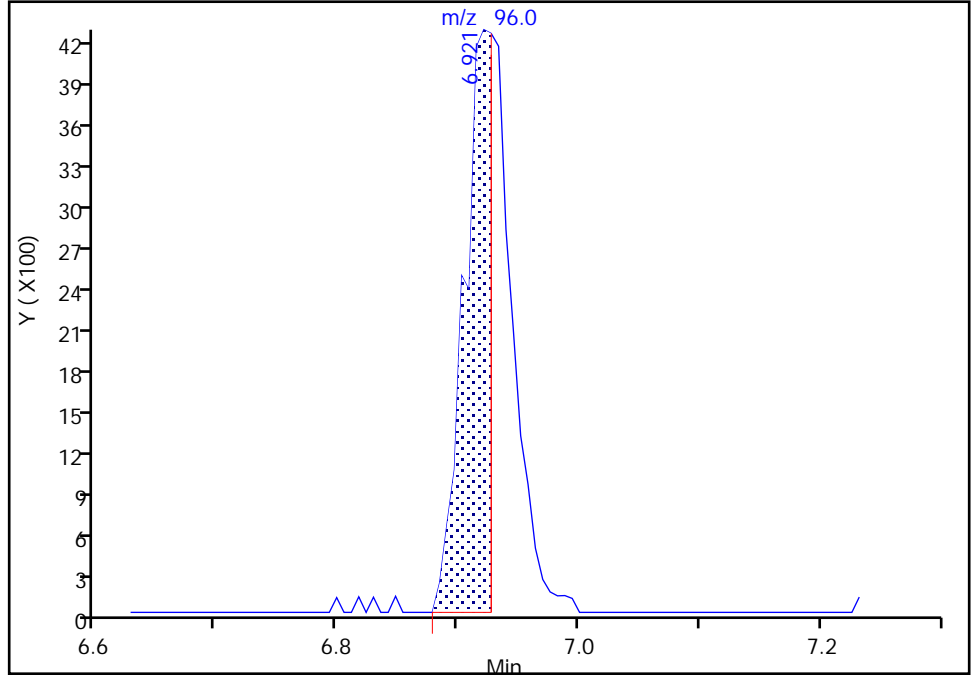
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_013.D  
Injection Date: 07-Oct-2020 18:37:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-4-A Lab Sample ID: 580-98033-4  
Client ID: AB-04B-16.5  
Operator ID: jsm ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

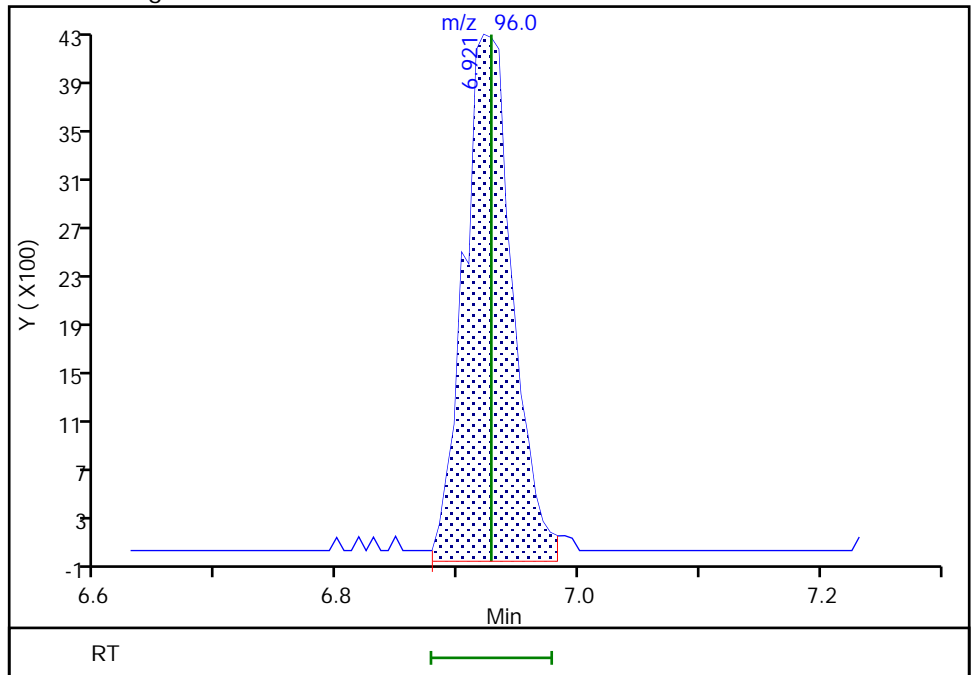
RT: 6.92  
Area: 7141  
Amount: 3.271131  
Amount Units: ug/L

Processing Integration Results



RT: 6.92  
Area: 12235  
Amount: 5.604578  
Amount Units: ug/L

Manual Integration Results



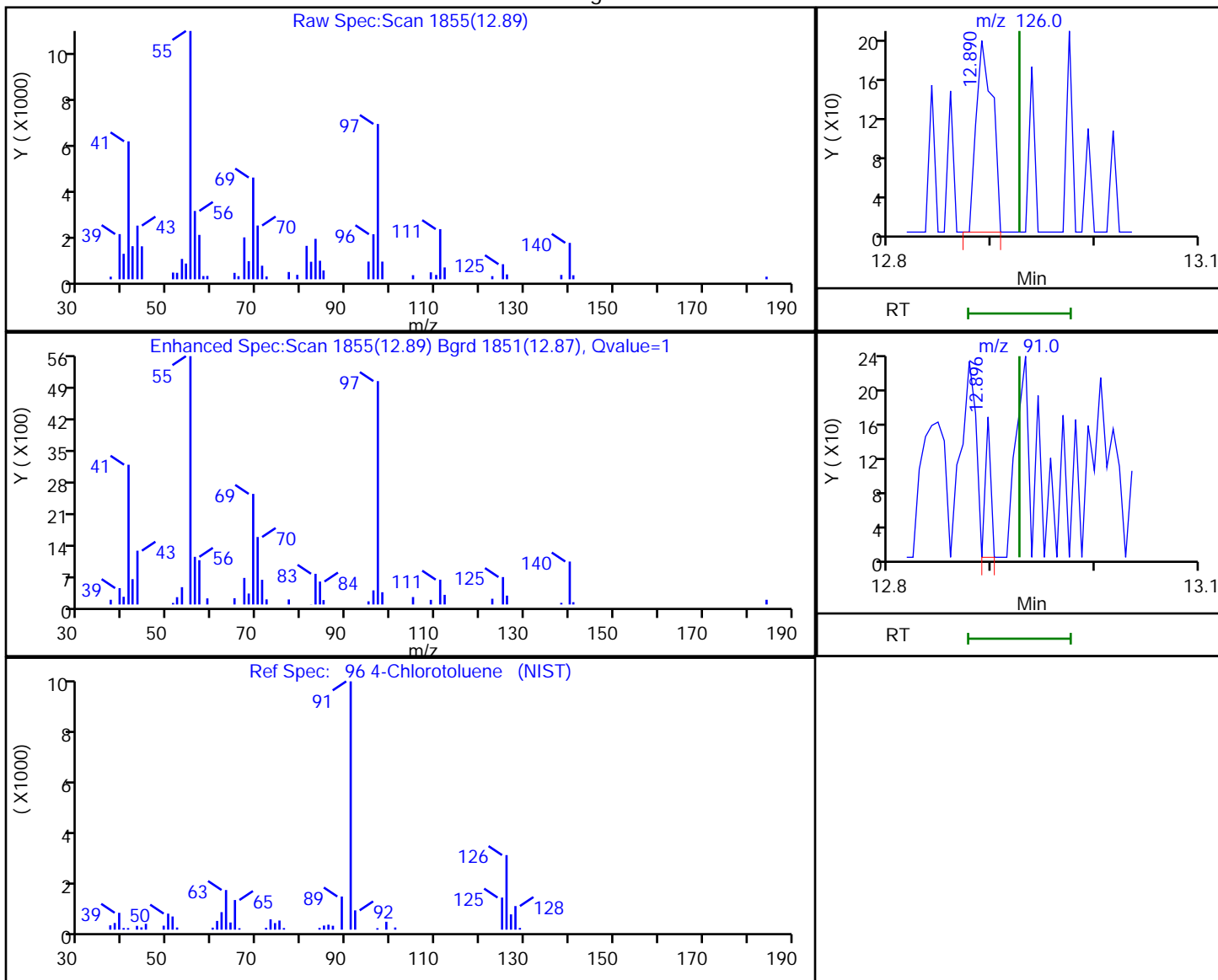
Reviewer: jantanuc, 09-Oct-2020 11:25:32  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_013.D  
 Injection Date: 07-Oct-2020 18:37:30 Instrument ID: TAC119  
 Lims ID: 580-98033-A-4-A Lab Sample ID: 580-98033-4  
 Client ID: AB-04B-16.5  
 Operator ID: jsm ALS Bottle#: 13 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

96 4-Chlorotoluene, CAS: 106-43-4

Processing Results



RT	Mass	Response	Amount
12.89	126.00	217	0.091108
12.90	91.00	60	

Reviewer: jantanuc, 09-Oct-2020 11:26:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_013.D

Injection Date: 07-Oct-2020 18:37:30

Instrument ID: TAC119

Lims ID: 580-98033-A-4-A

Lab Sample ID: 580-98033-4

Client ID: AB-04B-16.5

Operator ID: jsm

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

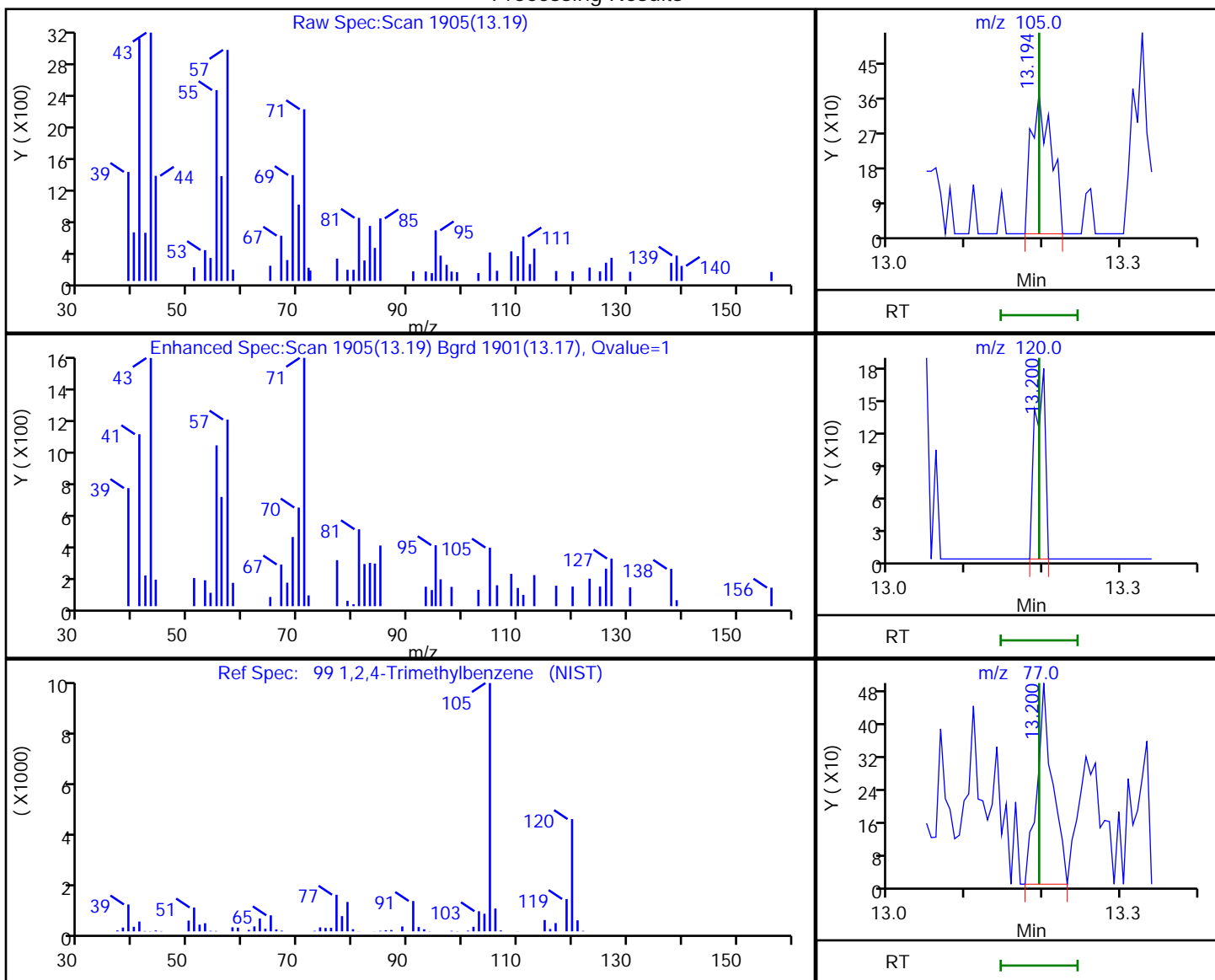
Limit Group: 8260C

Column:

Detector: MS SCAN

99 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
13.19	105.00	652	0.079508
13.20	120.00	161	
13.20	77.00	684	

Reviewer: jantanuc, 09-Oct-2020 11:26:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_013.D

Injection Date: 07-Oct-2020 18:37:30

Instrument ID: TAC119

Lims ID: 580-98033-A-4-A

Lab Sample ID: 580-98033-4

Client ID: AB-04B-16.5

Operator ID: jsm

ALS Bottle#: 13

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

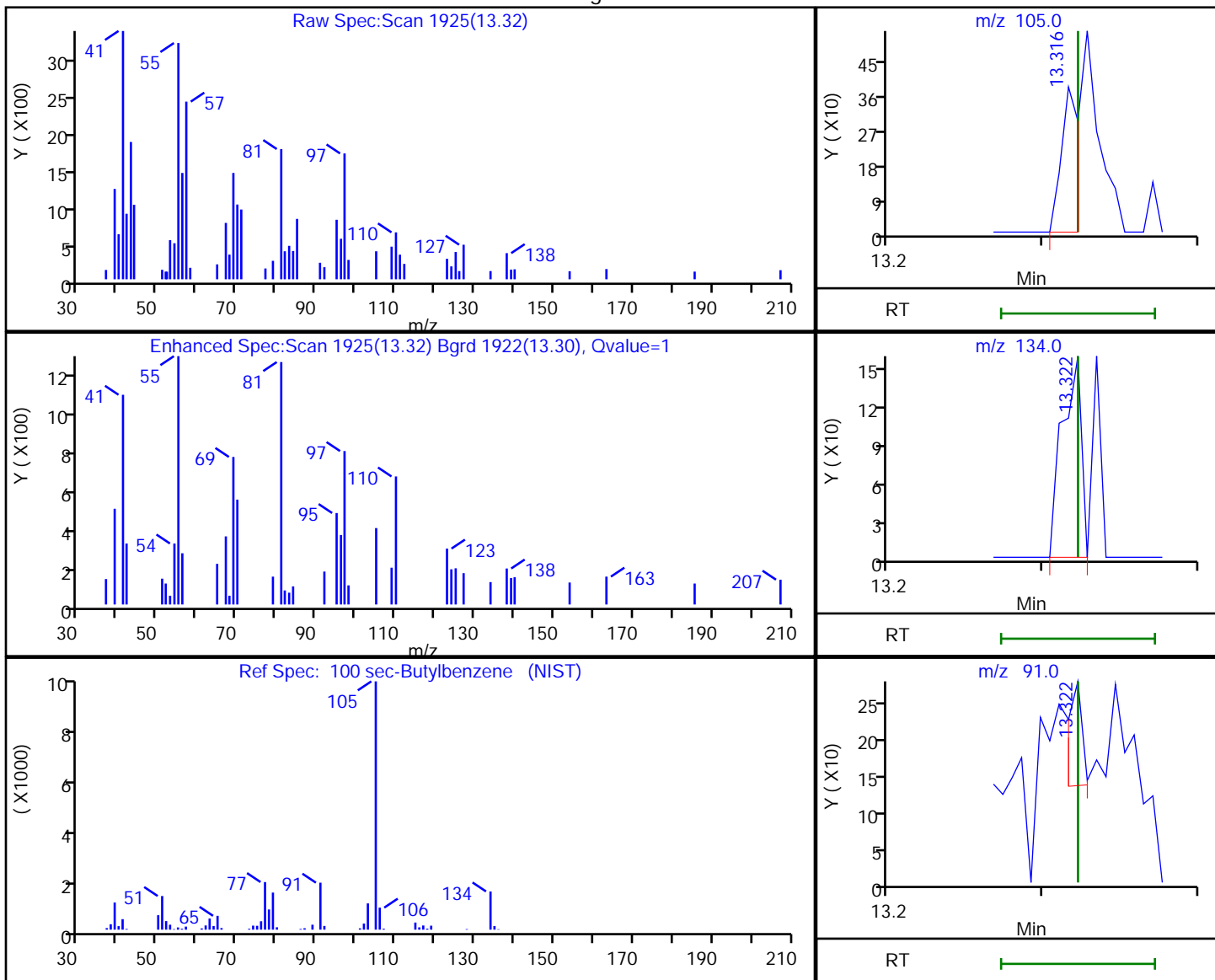
Limit Group: 8260C

Column:

Detector: MS SCAN

100 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
13.32	105.00	299	0.028161
13.32	134.00	137	
13.32	91.00	87	

Reviewer: jantanuc, 09-Oct-2020 11:26:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

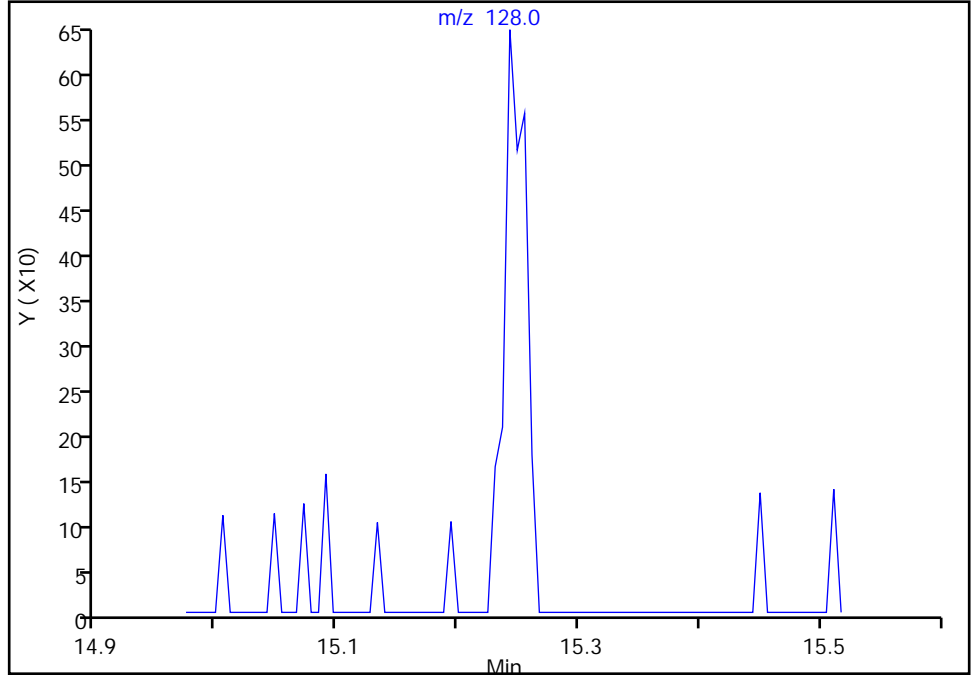
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_013.D  
Injection Date: 07-Oct-2020 18:37:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-4-A Lab Sample ID: 580-98033-4  
Client ID: AB-04B-16.5  
Operator ID: jsm ALS Bottle#: 13 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

112 Naphthalene, CAS: 91-20-3

Signal: 1

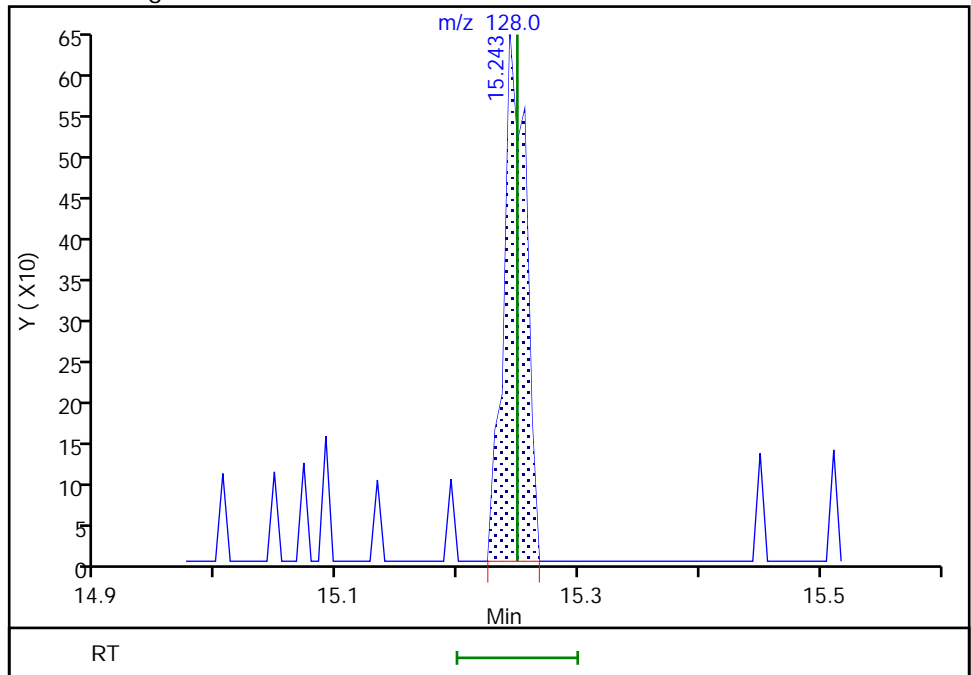
Not Detected  
Expected RT: 15.25

Processing Integration Results



Manual Integration Results

RT: 15.24  
Area: 827  
Amount: 0.116975  
Amount Units: ug/L



Reviewer: jantanuc, 09-Oct-2020 11:26:21  
Audit Action: Assigned Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Trip-Blank-02 Lab Sample ID: 580-98033-5  
 Matrix: Solid Lab File ID: 10072020\_008.D  
 Analysis Method: 8260D Date Collected: 10/05/2020 12:00  
 Sample wt/vol: 5(g) Date Analyzed: 10/07/2020 16:29  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	ND		2.0	
74-87-3	Chloromethane	ND		5.0	
75-01-4	Vinyl chloride	ND		2.0	
74-83-9	Bromomethane	ND		1.0	
75-00-3	Chloroethane	ND		10	
75-69-4	Trichlorofluoromethane	ND		2.0	
75-35-4	1,1-Dichloroethene	ND		5.0	
75-09-2	Methylene Chloride	ND		40	
1634-04-4	Methyl tert-butyl ether	ND		2.0	
156-60-5	trans-1,2-Dichloroethene	ND		2.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
594-20-7	2,2-Dichloropropane	ND		5.0	
156-59-2	cis-1,2-Dichloroethene	ND		3.0	
74-97-5	Chlorobromomethane	ND		2.0	
67-66-3	Chloroform	ND		2.0	
71-55-6	1,1,1-Trichloroethane	ND		2.0	
56-23-5	Carbon tetrachloride	ND		2.0	
563-58-6	1,1-Dichloropropene	ND		2.0	
71-43-2	Benzene	ND		2.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		2.0	
78-87-5	1,2-Dichloropropane	ND		2.0	
74-95-3	Dibromomethane	ND		1.0	
75-27-4	Dichlorobromomethane	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
108-88-3	Toluene	ND		10	
10061-02-6	trans-1,3-Dichloropropene	ND		10	
79-00-5	1,1,2-Trichloroethane	ND	*	2.0	
127-18-4	Tetrachloroethene	ND		2.0	
142-28-9	1,3-Dichloropropane	ND	*	2.0	
124-48-1	Chlorodibromomethane	ND		1.5	
106-93-4	Ethylene Dibromide	ND		1.0	
108-90-7	Chlorobenzene	ND		2.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND		3.0	
100-41-4	Ethylbenzene	ND		2.0	
179601-23-1	m-Xylene & p-Xylene	ND		10	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Trip-Blank-02 Lab Sample ID: 580-98033-5  
 Matrix: Solid Lab File ID: 10072020\_008.D  
 Analysis Method: 8260D Date Collected: 10/05/2020 12:00  
 Sample wt/vol: 5(g) Date Analyzed: 10/07/2020 16:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	ND		5.0	
100-42-5	Styrene	ND		3.0	
75-25-2	Bromoform	ND		5.0	
98-82-8	Isopropylbenzene	ND		2.0	
108-86-1	Bromobenzene	ND		10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	*	4.0	
96-18-4	1,2,3-Trichloropropane	ND		5.0	
103-65-1	N-Propylbenzene	ND		5.0	
95-49-8	2-Chlorotoluene	ND		5.0	
106-43-4	4-Chlorotoluene	ND		5.0	
98-06-6	tert-Butylbenzene	ND		3.0	
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	
135-98-8	sec-Butylbenzene	ND		3.0	
99-87-6	4-Isopropyltoluene	ND		2.0	
541-73-1	1,3-Dichlorobenzene	ND		5.0	
106-46-7	1,4-Dichlorobenzene	ND		5.0	
104-51-8	n-Butylbenzene	ND		3.0	
95-50-1	1,2-Dichlorobenzene	ND		10	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	
87-68-3	Hexachlorobutadiene	ND		3.0	
91-20-3	Naphthalene	ND		10	
87-61-6	1,2,3-Trichlorobenzene	ND		3.0	
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	61	X	80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	131	X	80-121
460-00-4	4-Bromofluorobenzene (Surr)	78	X	80-120
1868-53-7	Dibromofluoromethane (Surr)	118		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_008.D  
 Lims ID: 580-98033-A-5-A  
 Client ID: Trip-Blank-02  
 Sample Type: Client  
 Inject. Date: 07-Oct-2020 16:29:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-5  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 13-Oct-2020 11:11:50 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1629

First Level Reviewer: bohnc Date: 13-Oct-2020 11:11:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 18 TBA-d9 (IS)	65	4.653	4.647	0.006	0	594	200.0	s
\$ 44 Dibromofluoromethane (Surr)	113	7.744	7.738	0.006	1	389	11.8	M
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.165	8.177	-0.012	0	587	13.1	M
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	21	1240	10.0	s
\$ 72 Toluene-d8 (Surr)	98	10.280	10.274	0.006	1	697	6.06	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	35	915	10.0	s
\$ 92 4-Bromofluorobenzene (Surr)	174	12.573	12.560	0.013	1	258	7.80	M
* 103 1,4-Dichlorobenzene-d4	152	13.487	13.493	-0.006	13	544	10.0	s

**QC Flag Legend**

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

**Reagents:**

5X SUR/IS\_00001 Amount Added: 1.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_008.D

Injection Date: 07-Oct-2020 16:29:30

Instrument ID: TAC119

Lims ID: 580-98033-A-5-A

Lab Sample ID: 580-98033-5

Client ID: Trip-Blank-02

Operator ID: jsm

ALS Bottle#: 8

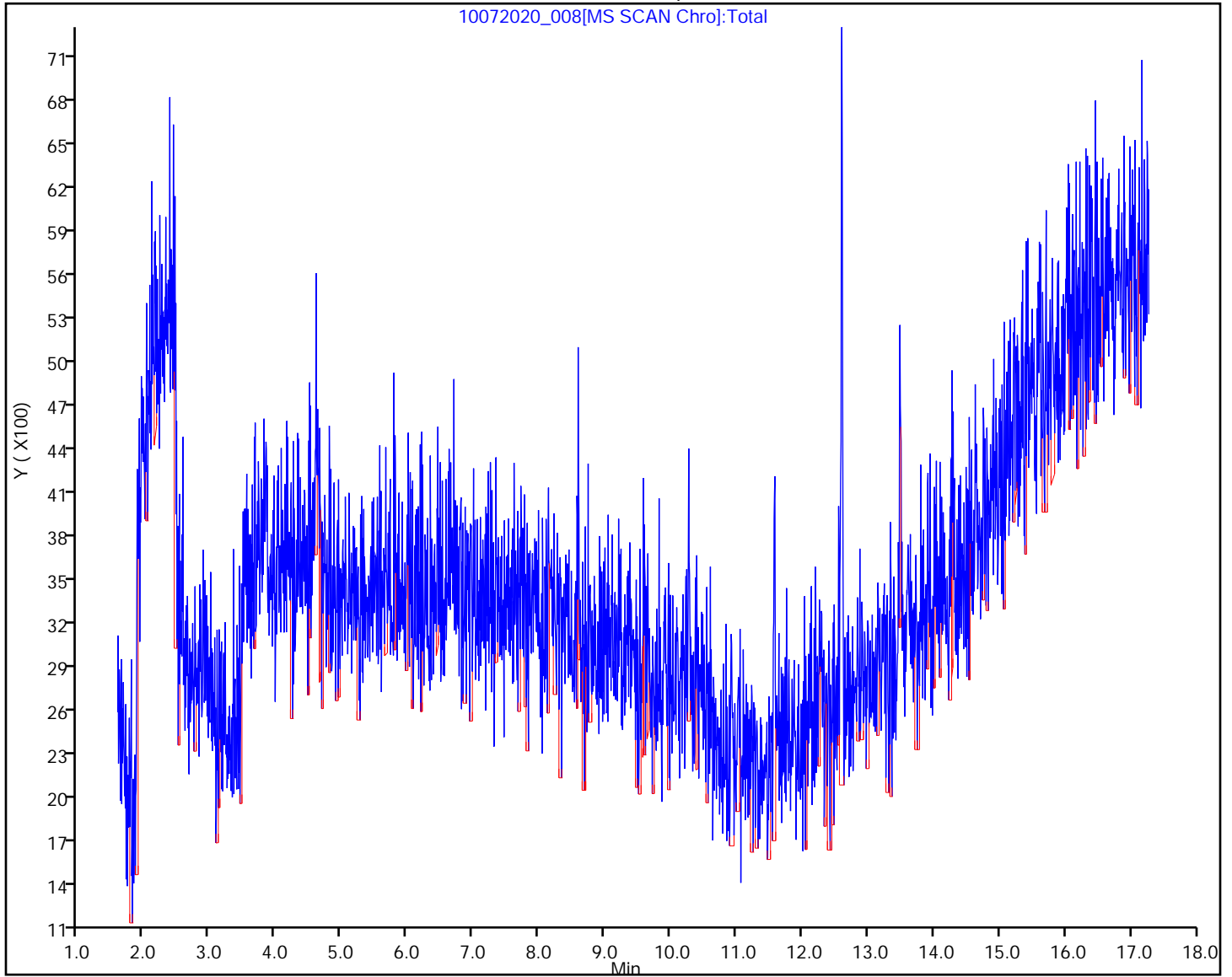
Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_008.D  
 Lims ID: 580-98033-A-5-A  
 Client ID: Trip-Blank-02  
 Sample Type: Client  
 Inject. Date: 07-Oct-2020 16:29:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 98033-5  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 13-Oct-2020 11:11:50 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1629

First Level Reviewer: bohnc

Date: 13-Oct-2020 11:11:50

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	11.8	117.90
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	13.1	130.61
\$ 64 Trifluorotoluene (Surr)	0.0	0	0.00
\$ 72 Toluene-d8 (Surr)	10.0	6.06	60.59
\$ 92 4-Bromofluorobenzene (Surr)	10.0	7.80	78.03
\$ 118 BFB	0.0	0	0.00

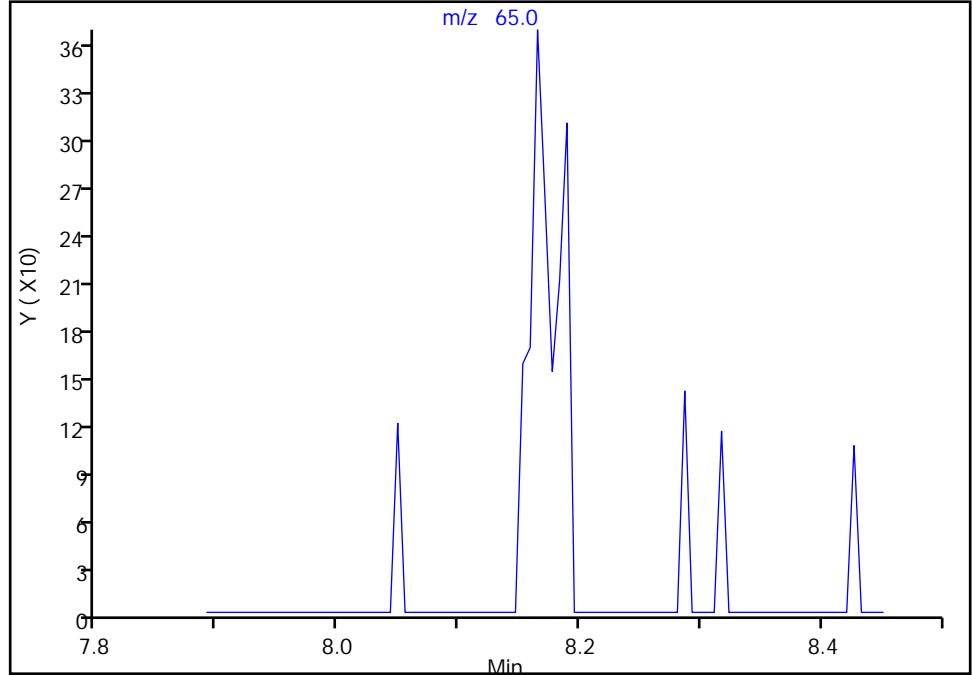
Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_008.D  
Injection Date: 07-Oct-2020 16:29:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-5-A Lab Sample ID: 580-98033-5  
Client ID: Trip-Blank-02  
Operator ID: jsm ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

\$ 46 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0  
Signal: 1

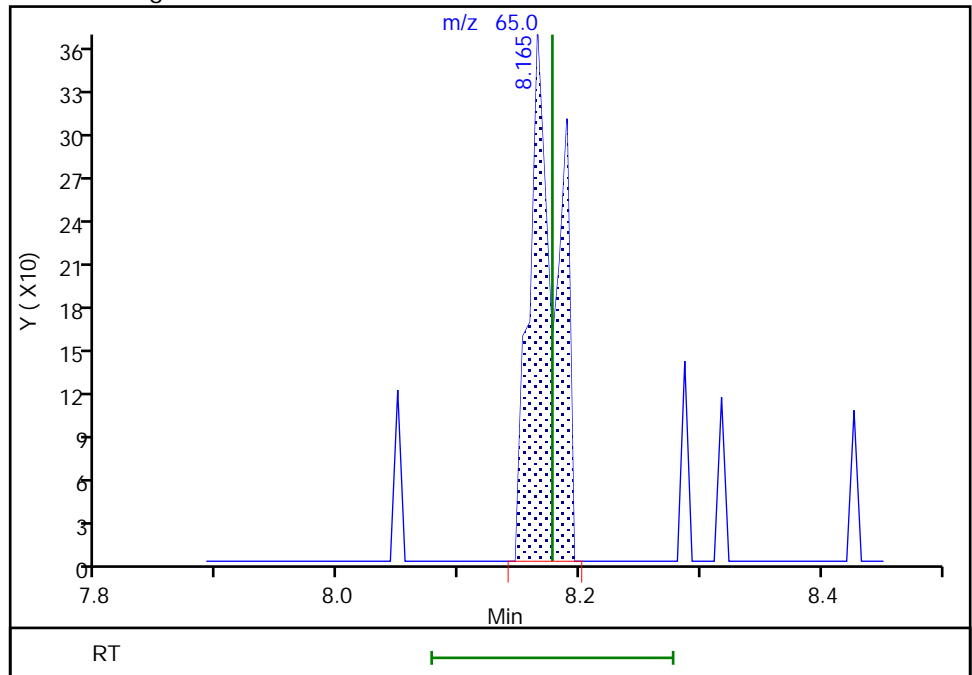
Not Detected  
Expected RT: 8.18

Processing Integration Results



Manual Integration Results

RT: 8.16  
Area: 587  
Amount: 13.060880  
Amount Units: ug/L





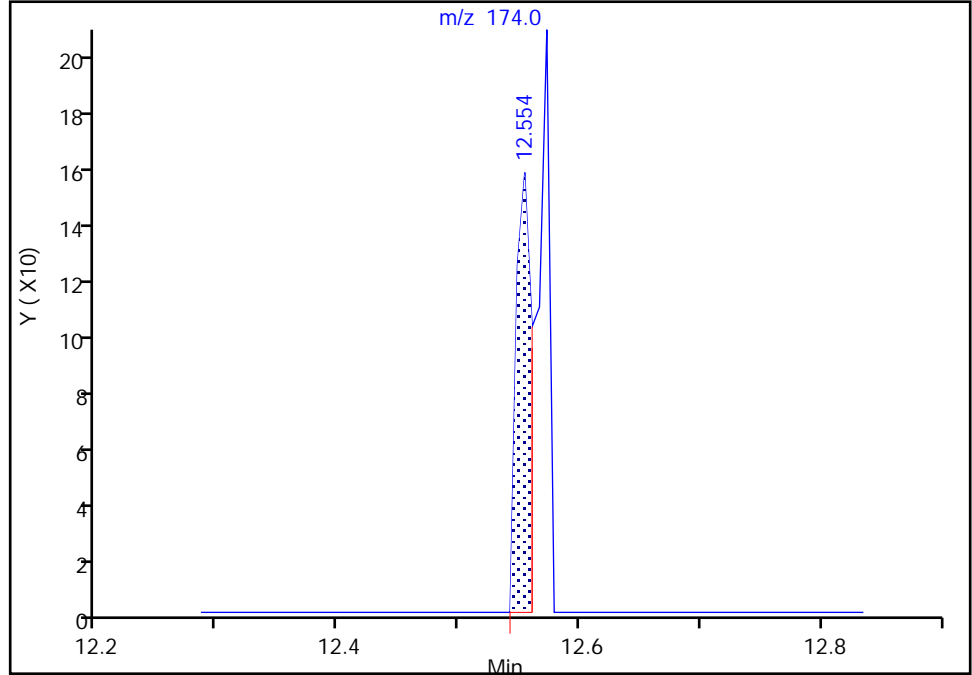
Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_008.D  
Injection Date: 07-Oct-2020 16:29:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-5-A Lab Sample ID: 580-98033-5  
Client ID: Trip-Blank-02  
Operator ID: jsm ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

\$ 92 4-Bromofluorobenzene (Surr), CAS: 460-00-4  
Signal: 1

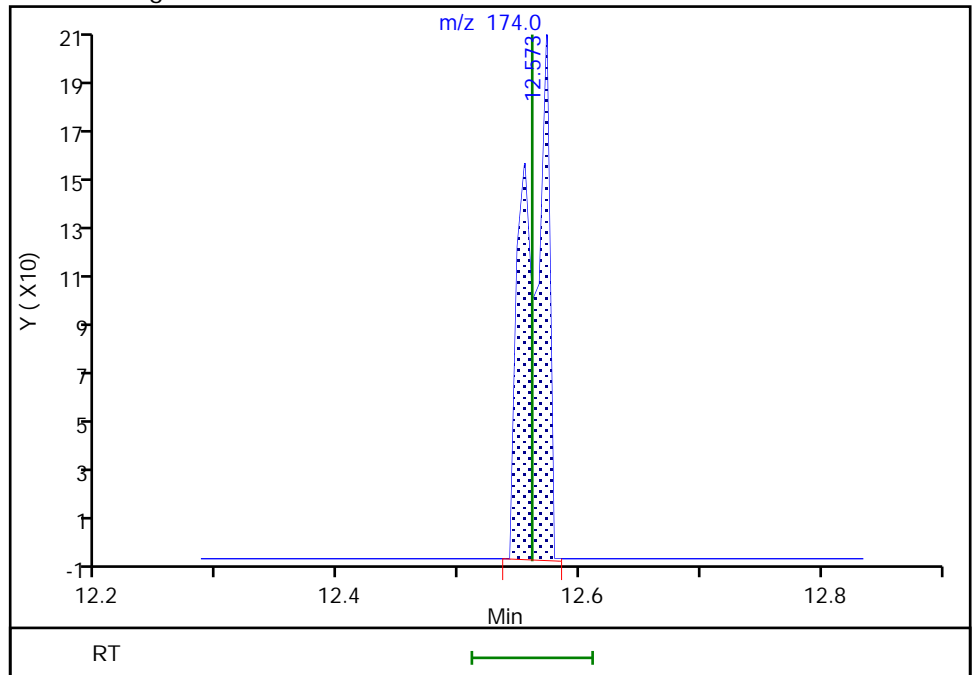
RT: 12.55  
Area: 140  
Amount: 4.234353  
Amount Units: ug/L

Processing Integration Results



RT: 12.57  
Area: 258  
Amount: 7.803308  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 13-Oct-2020 11:11:28  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 257 of 974

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_008.D

Injection Date: 07-Oct-2020 16:29:30

Instrument ID: TAC119

Lims ID: 580-98033-A-5-A

Lab Sample ID: 580-98033-5

Client ID: Trip-Blank-02

Operator ID: jsm

ALS Bottle#: 8

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

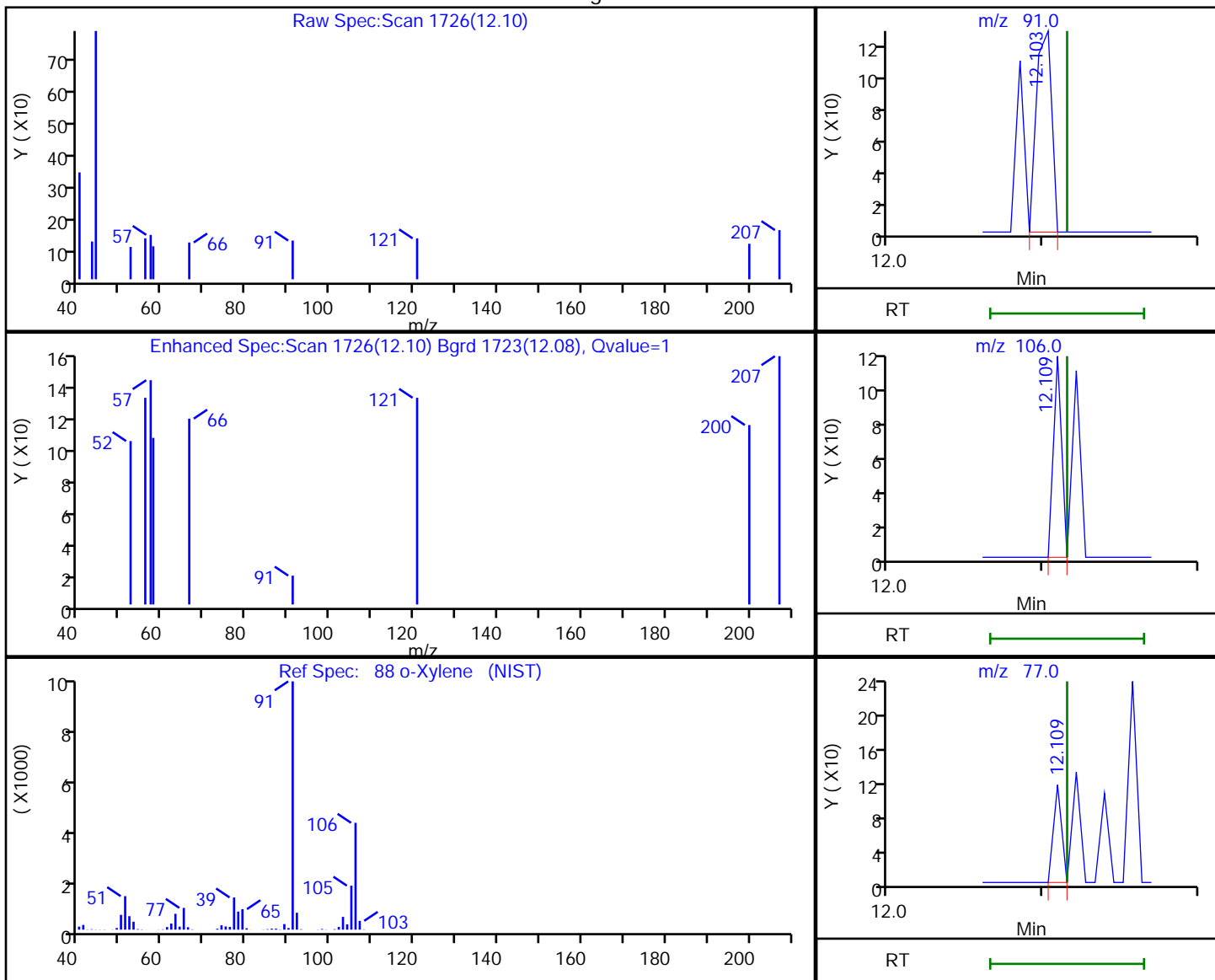
Limit Group: 8260C

Column:

Detector: MS SCAN

88 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
12.10	91.00	84	0.338961
12.11	106.00	41	
12.11	77.00	42	

Reviewer: bohnc, 13-Oct-2020 11:11:36

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

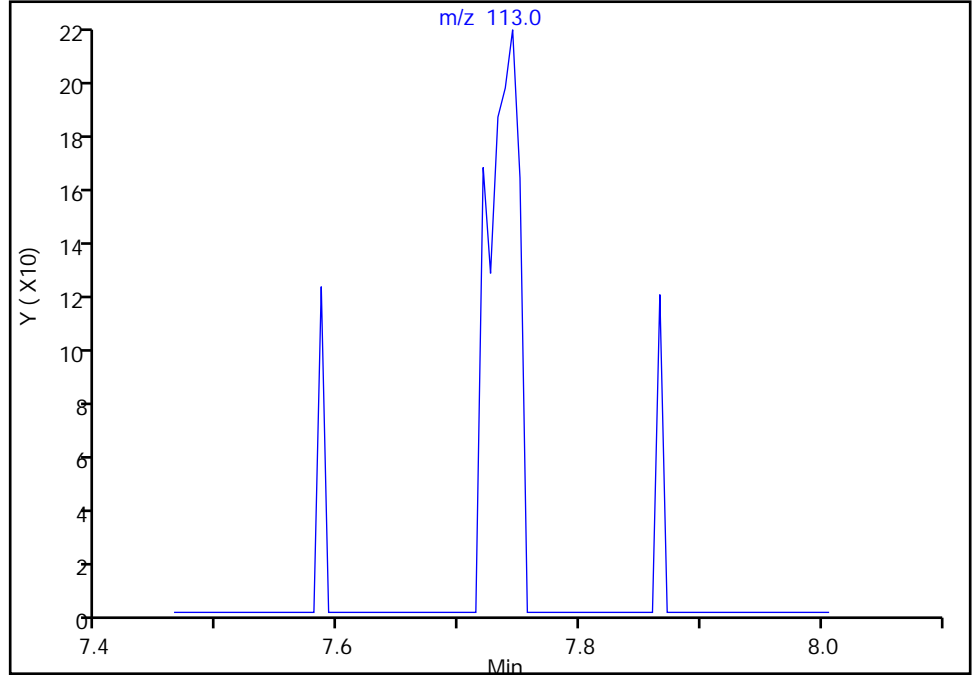
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_008.D  
Injection Date: 07-Oct-2020 16:29:30 Instrument ID: TAC119  
Lims ID: 580-98033-A-5-A Lab Sample ID: 580-98033-5  
Client ID: Trip-Blank-02  
Operator ID: jsm ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

**\$ 44 Dibromofluoromethane (Surr), CAS: 1868-53-7**

Signal: 1

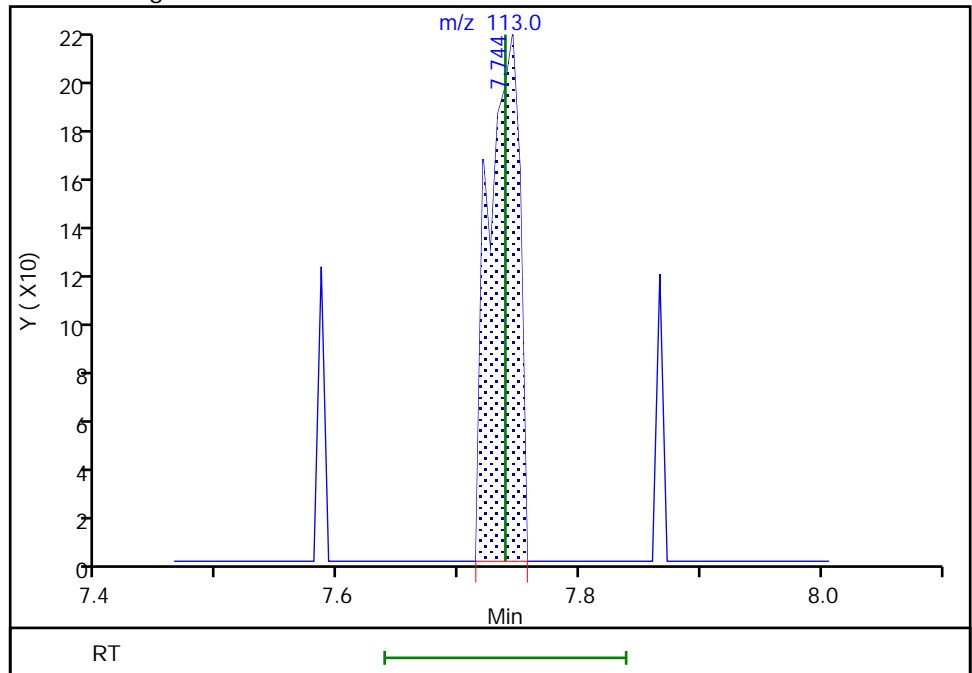
Not Detected  
Expected RT: 7.74

Processing Integration Results



RT: 7.74  
Area: 389  
Amount: 11.790250  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 13-Oct-2020 11:11:17  
Audit Action: Manually Integrated

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55 Calibration End Date: 10/01/2020 20:22 Calibration ID: 29648

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-339812/3	10012020_002z.D
Level 2	IC 580-339812/4	10012020_003.D
Level 3	IC 580-339812/5	10012020_004.D
Level 4	IC 580-339812/6	10012020_005.D
Level 5	IC 580-339812/7	10012020_006.D
Level 6	ICIS 580-339812/8	10012020_007.D
Level 7	IC 580-339812/9	10012020_008.D
Level 8	IC 580-339812/10	10012020_009.D
Level 9	IC 580-339812/11	10012020_010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Dichlorodifluoromethane	++++ 0.1233	++++ 0.1229	0.0941 0.1412	0.1210 0.1399	0.0919	Lin1	-0.148	0.1379		0.1000	15.4			0.9950		0.9900	
Chloromethane	++++ 0.4160	++++ 0.3946	0.5096 0.4170	0.4833 0.4040	0.4263	Ave		0.4358		0.1000	9.9	20.0					
Vinyl chloride	++++ 0.2567	0.3832 0.2402	0.3091 0.2563	0.2812 0.2535	0.2288	Lin1	0.1093	0.2504		0.1000	7.1			0.9990		0.9900	
Butadiene	0.2159 0.3179	0.2662 0.2732	0.2499 0.2921	0.2766 0.3057	0.2519	Ave		0.2722			11.4	20.0					
Bromomethane	++++ 0.1399	0.0336 0.1188	0.1301 0.1252	0.1342 0.1279	0.0989	Lin1	-0.056	0.1268		0.1000	19.1			0.9960		0.9900	
Chloroethane	++++ 0.1287	++++ 0.1184	0.0540 0.1108	0.1262 0.1209	0.1001	Lin1	-0.081	0.1187		0.0600	14.6			0.9960		0.9900	
Dichlorofluoromethane	++++ 0.3959	0.2523 0.3530	0.2281 0.3745	0.2797 0.3762	0.3567	Ave		0.3270			19.5	20.0					
Trichlorofluoromethane	++++ 0.3288	0.4134 0.2972	0.3255 0.3256	0.3458 0.3053	0.3268	Ave		0.3336		0.1000	10.7	20.0					
3-Chloro-1-propene	++++ 0.0087	++++ 0.0083	0.0138 0.0097	0.0108 0.0089	0.0116	Lin1	0.0101	0.0090			10.4			0.9950		0.9900	
Ethyl ether	0.3569 0.2743	0.2508 0.2628	0.3248 0.2756	0.3060 0.2863	0.2854	Ave		0.2914			11.3	20.0					
Acrolein	++++ 0.0663	0.0744 0.0651	0.0619 0.0674	0.0662 0.0703	0.0618	Ave		0.0667			6.3	20.0					
1,1-Dichloroethene	++++ 0.1617	++++ 0.1461	0.1836 0.1462	0.1846 0.1545	0.1599	Ave		0.1624		0.1000	9.9	20.0					
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 0.1424	0.1820 0.1346	0.1937 0.1381	0.1715 0.1373	0.1495	Ave		0.1562		0.1000	14.7	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, Seattle

Job No.: 580-98033-1

Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119

GC Column: 624SIL-MS ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55

Calibration End Date: 10/01/2020 20:22

Calibration ID: 29648

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Acetone	++++ 0.1512	++++ 0.1347	0.1858 0.1379	0.1391 0.1493	0.1327	Ave		0.1472		0.0200	12.5		20.0				
Iodomethane	++++ 0.2955	0.3685 0.2691	0.3110 0.2614	0.2948 0.2798	0.2851	Ave		0.2956			11.3		20.0				
Carbon disulfide	0.5917 0.6242	0.7005 0.5493	0.6303 0.6012	0.6316 0.6136	0.5880	Ave		0.6145		0.1000	6.7		20.0				
Isopropyl alcohol	++++ 0.8870	++++ 0.9669	1.3240 0.9440	1.0667 0.9734	1.0027	Ave		1.0235			14.0		20.0				
Acetonitrile	++++ 0.0171	0.0197 0.0179	0.0138 0.0195	0.0196 0.0207	0.0202	Ave		0.0186			12.1		20.0				
Methyl acetate	++++ 0.2660	0.5126 0.2600	0.4391 0.2849	0.2818 0.2965	0.2583	Lin1	0.3668	0.2816		0.1000	15.3			0.9960		0.9900	
Methylene Chloride	++++ 0.2283	0.8765 0.2052	0.5377 0.2009	0.3295 0.2071	0.2399	Lin2	0.6851	0.1916		0.1000	5.0			0.9970		0.9900	
2-Methyl-2-propanol	++++ 0.0422	++++ 0.0404	0.0503 0.0424	0.0420 0.0435	0.0410	Ave		0.0431			7.8		20.0				
Acrylonitrile	0.0534 0.1272	0.1076 0.1238	0.1125 0.1335	0.1189 0.1387	0.1157	Lin2	-0.354	0.1299			6.2			0.9960		0.9900	
trans-1,2-Dichloroethene	++++ 0.2218	0.3038 0.2184	0.2948 0.2275	0.2676 0.2336	0.2407	Ave		0.2510		0.1000	13.3		20.0				
Methyl tert-butyl ether	++++ 0.7463	0.6520 0.6999	0.7623 0.7182	0.7785 0.7413	0.7344	Lin1	0.0012	0.7288		0.1000	5.9			0.9990		0.9900	
Hexane	++++ 0.6185	++++ 0.5720	1.1159 0.5908	0.8256 0.5852	0.7259	Lin2	1.1022	0.5795			4.4			0.9980		0.9900	
1,1-Dichloroethane	0.4961 0.5652	0.7254 0.5375	0.6096 0.5636	0.6073 0.5813	0.6062	Ave		0.5880		0.2000	10.8		20.0				
Vinyl acetate	++++ 0.0526	++++ 0.0503	0.0711 0.0515	0.0571 0.0540	0.0575	Ave		0.0563			12.5		20.0				
2-Chloro-1,3-butadiene	0.5488 0.7278	0.8551 0.6980	0.8050 0.7230	0.7609 0.7369	0.7365	Ave		0.7324			11.4		20.0				
Isopropyl ether	1.4333 1.4592	1.3565 1.4107	1.4552 1.4677	1.4880 1.4846	1.4379	Ave		1.4437			2.8		20.0				
Tert-butyl ethyl ether	0.3464 0.3199	0.2746 0.3106	0.4056 0.3248	0.3416 0.3284	0.3393	Ave		0.3324			10.5		20.0				
2,2-Dichloropropane	++++ 0.3985	++++ 0.3714	0.3839 0.3747	0.4399 0.3821	0.3999	Ave		0.3929			6.0		20.0				
cis-1,2-Dichloroethene	++++ 0.2771	++++ 0.2607	0.2856 0.2700	0.3281 0.2726	0.2788	Ave		0.2818		0.1000	7.7		20.0				
2-Butanone (MEK)	++++ 0.0307	++++ 0.0290	0.0330 0.0306	0.0340 0.0313	0.0250	Ave		0.0305		0.0200	9.6		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, Seattle Job No.: 580-98033-1 Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55 Calibration End Date: 10/01/2020 20:22 Calibration ID: 29648

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Propionitrile	++++	0.0518	0.0481	0.0445	0.0450	Ave		0.0490			6.4		20.0				
	0.0493	0.0487	0.0518	0.0530													
Ethyl acetate	++++	0.4053	0.4120	0.4041	0.3984	Ave		0.4105			3.5		20.0				
	0.4218	0.3874	0.4249	0.4304													
Methacrylonitrile	0.0923	0.1416	0.1071	0.1022	0.0994	Ave		0.1061			13.2		20.0				
	0.1041	0.0990	0.1047	0.1043													
Chlorobromomethane	0.1449	0.1766	0.2036	0.1815	0.1695	Ave		0.1672			10.8		20.0				
	0.1611	0.1509	0.1568	0.1598													
Chloroform	0.4826	0.6411	0.5756	0.5031	0.4905	Ave		0.5029		0.2000	12.9		20.0				
	0.4605	0.4387	0.4639	0.4697													
1,1,1-Trichloroethane	0.3879	0.4541	0.4245	0.4622	0.4394	Ave		0.4229		0.1000	6.0		20.0				
	0.4160	0.3932	0.4105	0.4181													
Cyclohexane	0.3368	0.4358	0.4081	0.3836	0.3569	Ave		0.3611		0.1000	10.9		20.0				
	0.3352	0.3199	0.3330	0.3411													
Carbon tetrachloride	++++	0.4400	0.4358	0.3900	0.3889	Lin1	0.0776	0.3757		0.1000	3.5			1.0000		0.9900	
	0.3797	0.3593	0.3770	0.3813													
1,1-Dichloropropene	0.4690	0.4179	0.3895	0.3938	0.3711	Ave		0.3858			9.9		20.0				
	0.3613	0.3443	0.3615	0.3637													
Benzene	1.1010	1.1257	1.0593	1.1268	1.0564	Ave		1.0562		0.5000	4.9		20.0				
	1.0283	0.9824	1.0082	1.0176													
Isobutyl alcohol	++++	0.8159	0.7585	0.9172	0.7184	Ave		0.7601			10.0		20.0				
	0.6657	0.7246	0.7478	0.7326													
1,2-Dichloroethane	0.5632	0.5057	0.4902	0.5086	0.4852	Ave		0.4957		0.1000	5.9		20.0				
	0.4805	0.4599	0.4799	0.4883													
Tert-amyl methyl ether	0.8878	0.7794	0.7995	0.7767	0.7378	Ave		0.7744			6.2		20.0				
	0.7428	0.7335	0.7597	0.7523													
n-Heptane	0.7625	0.8176	0.8191	0.7768	0.7831	Ave		0.7626			5.3		20.0				
	0.7253	0.6991	0.7386	0.7412													
Tetrahydrofuran	0.2044	0.1577	0.1473	0.0922	0.1088	Lin1	0.1244	0.0944			12.5			0.9990		0.9900	
	0.0979	0.0927	0.0950	0.0955													
Trichloroethene	0.3399	0.3046	0.3250	0.2943	0.2831	Ave		0.2890		0.2000	10.2		20.0				
	0.2688	0.2524	0.2687	0.2643													
Ethyl acrylate	0.7411	0.6335	0.5885	0.5620	0.4789	Ave		0.5523			16.4		20.0				
	0.4707	0.4727	0.5159	0.5073													
n-Butanol	0.0093	0.0072	0.0084	0.0078	0.0082	Ave		0.0077			10.7		20.0				
	0.0073	0.0067	0.0071	0.0073													
Methylcyclohexane	0.4056	0.6211	0.5053	0.5139	0.4352	Ave		0.4719		0.1000	14.0		20.0				
	0.4504	0.4248	0.4468	0.4444													
1,2-Dichloropropane	0.3273	0.3933	0.3672	0.3353	0.3340	Ave		0.3392		0.1000	7.3		20.0				
	0.3234	0.3156	0.3279	0.3287													

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, Seattle

Job No.: 580-98033-1

Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119

GC Column: 624SIL-MS ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55

Calibration End Date: 10/01/2020 20:22

Calibration ID: 29648

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Dibromomethane	0.1305 0.1499	0.1446 0.1432	0.1578 0.1532	0.1631 0.1505	0.1507	Ave		0.1493			6.2		20.0				
Methyl methacrylate	++++ 0.1728	0.1841 0.1642	0.2083 0.1763	0.1680 0.1765	0.1686	Ave		0.1773			7.9		20.0				
Dichlorobromomethane	++++ 0.3710	0.4642 0.3619	0.4524 0.3748	0.3851 0.3742	0.3695	Ave		0.3941		0.2000	10.2		20.0				
2-Nitropropane	++++ 0.1699	0.2353 0.1569	0.2061 0.1721	0.1976 0.1719	0.1708	Ave		0.1851			14.0		20.0				
2-Chloroethyl vinyl ether	0.3703 0.1831	0.2329 0.1769	0.2274 0.1929	0.1895 0.1924	0.1981	Lin2	0.0863	0.1809			9.1			0.9910		0.9900	
cis-1,3-Dichloropropene	0.6990 0.5626	0.6197 0.5492	0.5909 0.5598	0.6151 0.5524	0.5442	Ave		0.5881		0.2000	8.5		20.0				
4-Methyl-2-pentanone (MIBK)	0.1932 0.1628	0.1727 0.1609	0.1660 0.1663	0.1708 0.1678	0.1449	Ave		0.1673		0.0600	7.6		20.0				
Toluene	++++ 1.4193	1.8794 1.4013	1.7321 1.4192	1.6864 1.4146	1.4501	Ave		1.5503		0.4000	12.1		20.0				
n-Butyl acetate	++++ 0.0970	++++ 0.0907	++++ 0.0959	0.1014 0.0964	0.1352	Lin1	0.1312	0.0943			18.3			0.9940		0.9900	
trans-1,3-Dichloropropene	0.5398 0.5114	0.5984 0.5133	0.5605 0.5268	0.5451 0.5194	0.5172	Ave		0.5369		0.1000	5.3		20.0				
Ethyl methacrylate	++++ 0.3755	++++ 0.3797	0.5017 0.3926	0.4176 0.3838	0.3804	Ave		0.4045			11.2		20.0				
1,1,2-Trichloroethane	0.4819 0.2573	0.3624 0.2688	0.3495 0.2779	0.3172 0.2673	0.2708	Lin2	0.1054	0.2715		0.1000	6.3			0.9960		0.9900	
Tetrachloroethene	++++ 0.6593	0.7756 0.6740	0.6708 0.6774	0.7179 0.6798	0.6618	Ave		0.6896		0.2000	5.7		20.0				
1,3-Dichloropropane	0.4450 0.4836	0.5542 0.4748	0.5532 0.4911	0.5236 0.4812	0.4675	Ave		0.4971			7.7		20.0				
2-Hexanone	0.1746 0.1568	0.1936 0.1570	0.1471 0.1657	0.1718 0.1666	0.1428	Ave		0.1640		0.0600	9.4		20.0				
Chlorodibromomethane	0.3377 0.3505	0.3758 0.3489	0.3997 0.3577	0.4025 0.3438	0.3405	Ave		0.3619		0.1000	6.9		20.0				
Ethylene Dibromide	++++ 0.2699	0.3087 0.2645	0.3073 0.2729	0.2887 0.2742	0.2735	Lin1	0.0464	0.2715		0.1000	3.0			1.0000		0.9900	
Chlorobenzene	0.9462 0.9331	1.0035 0.9381	0.9991 0.9723	1.0419 0.9235	0.9557	Ave		0.9682		0.5000	4.1		20.0				
1,1,1,2-Tetrachloroethane	0.4321 0.3518	0.3451 0.3578	0.4154 0.3520	0.3989 0.3350	0.3494	Ave		0.3708			9.5		20.0				
Ethylbenzene	2.7624 1.5639	1.9826 1.5557	1.7479 1.6277	1.7246 1.5642	1.5858	Lin2	0.5688	1.5449		0.1000	5.0			0.9970		0.9900	

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, Seattle Job No.: 580-98033-1 Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55 Calibration End Date: 10/01/2020 20:22 Calibration ID: 29648

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
m-Xylene & p-Xylene	1.8377 1.2170	1.8213 1.2459	1.3745 1.2940	1.4089 1.2403	1.2329	Ave		1.4081			0.1000	17.6	20.0				
o-Xylene	2.2638 1.2850	1.6963 1.2561	1.5048 1.3008	1.4427 1.2391	1.2636	Lin2	0.4908	1.2605			0.3000	3.6		0.9980		0.9900	
Styrene	++++ 0.8767	1.0286 0.8966	1.0514 0.9325	0.9829 0.8761	0.8609	Ave		0.9382			0.3000	7.9	20.0				
Bromoform	0.2340 0.2155	0.1983 0.2148	0.2095 0.2220	0.2335 0.2129	0.2056	Ave		0.2162			0.1000	5.5	20.0				
Isopropylbenzene	++++ 1.4973	1.8946 1.4885	1.6418 1.5403	1.7059 1.4286	1.5365	Ave		1.5917			0.1000	9.5	20.0				
1,1,2,2-Tetrachloroethane	1.4376 0.7125	1.1947 0.7282	1.5048 0.7495	1.4427 0.7340	0.6860	Lin1	0.3048	0.7299			0.3000	12.9		0.9990		0.9900	
Bromobenzene	0.9849 0.8031	0.9081 0.8367	0.8382 0.8623	0.8178 0.8234	0.8190	Ave		0.8548				6.8	20.0				
trans-1,4-Dichloro-2-butene	++++ 0.3755	0.5923 0.3658	0.5413 0.4035	0.4442 0.3852	0.3689	Lin2	0.2348	0.3792				7.6		0.9930		0.9900	
1,2,3-Trichloropropane	++++ 0.2312	0.2888 0.2269	0.2637 0.2343	0.2358 0.2219	0.2371	Ave		0.2424				9.3	20.0				
N-Propylbenzene	++++ 3.9819	4.5155 4.0477	4.4857 4.3304	4.3101 4.0249	4.1023	Ave		4.2248				5.0	20.0				
2-Chlorotoluene	0.7568 0.7713	1.0206 0.8239	0.9079 0.8568	0.8887 0.7891	0.8458	Ave		0.8512				9.6	20.0				
1,3,5-Trimethylbenzene	3.2813 2.8759	3.3364 2.9267	3.0354 3.0590	3.1050 2.7971	3.0653	Ave		3.0536				5.8	20.0				
4-Chlorotoluene	1.0225 0.7802	1.0672 0.8146	0.9592 0.8575	0.8752 0.8096	0.7856	Ave		0.8857				12.0	20.0				
tert-Butylbenzene	3.1543 2.7162	3.0293 2.7212	2.6500 2.8001	2.8804 2.5768	2.7300	Ave		2.8065				6.6	20.0				
1,2,4-Trimethylbenzene	2.7007 2.8544	3.9378 2.9111	3.3175 3.0210	3.0310 2.7489	2.9241	Ave		3.0496				12.4	20.0				
sec-Butylbenzene	4.0748 3.7303	4.3473 3.8619	4.1139 3.9255	4.1043 3.5833	3.7950	Ave		3.9485				5.9	20.0				
1,3-Dichlorobenzene	1.7739 1.4235	1.5850 1.5091	1.6676 1.5801	1.4988 1.4321	1.4644	Ave		1.5483			0.6000	7.5	20.0				
4-Isopropyltoluene	3.7796 3.0870	3.6513 3.1996	3.2305 3.2483	3.2772 2.9320	3.0669	Ave		3.2747				8.4	20.0				
1,4-Dichlorobenzene	1.7355 1.3878	1.6851 1.5067	1.6814 1.5570	1.5684 1.4125	1.4224	Ave		1.5508			0.5000	8.3	20.0				
1,2,3-Trimethylbenzene	4.0426 2.9856	3.4086 3.0581	3.5508 3.0727	3.2321 2.7814	3.0007	Ave		3.2369				11.8	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, Seattle Job No.: 580-98033-1 Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55 Calibration End Date: 10/01/2020 20:22 Calibration ID: 29648

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Benzyl chloride	++++ 0.3104	++++ 0.3127	0.3874 0.3228	0.3454 0.3053	0.3402	Ave	0.3320			8.7	20.0						
n-Butylbenzene	0.8176 0.7006	1.0251 0.7403	0.9271 0.7769	0.8461 0.6900	0.7733	Ave	0.8108			13.4	20.0						
1,2-Dichlorobenzene	1.5163 1.3897	1.6147 1.4603	1.5122 1.5175	1.4763 1.3968	1.4494	Ave	1.4815		0.4000	4.7	20.0						
1,2-Dibromo-3-Chloropropane	++++ 0.1546	++++ 0.1515	0.1784 0.1606	0.1610 0.1497	0.1610	Ave	0.1595		0.0500	6.0	20.0						
1,3,5-Trichlorobenzene	1.3410 0.9877	1.4241 1.0443	1.1725 1.0554	1.2306 0.9621	1.0419	Ave	1.1400			14.3	20.0						
1,2,4-Trichlorobenzene	++++ 0.8724	1.1156 0.9343	1.0344 0.9232	1.0458 0.8599	0.9329	Ave	0.9648		0.2000	9.4	20.0						
Hexachlorobutadiene	0.6003 0.5555	0.6239 0.5798	0.5955 0.5826	0.6603 0.5412	0.5871	Ave	0.5918			6.0	20.0						
Naphthalene	3.3904 2.3076	3.2057 2.3774	2.6755 2.3936	2.6978 2.2883	2.3264	Ave	2.6292			15.6	20.0						
1,2,3-Trichlorobenzene	1.1960 0.8963	1.2098 0.9355	1.0166 0.9221	0.9855 0.8596	0.9176	Ave	0.9932			12.8	20.0						
Dibromofluoromethane (Surr)	0.2541 0.2691	0.2780 0.2614	0.2707 0.2619	0.2625 0.2647	0.2722	Ave	0.2661			2.7	20.0						
1,2-Dichloroethane-d4 (Surr)	0.3420 0.3719	0.3665 0.3607	0.3685 0.3602	0.3698 0.3617	0.3607	Ave	0.3624			2.4	20.0						
Toluene-d8 (Surr)	1.2556 1.2870	1.2352 1.2244	1.2843 1.2399	1.2842 1.2580	1.2456	Ave	1.2571			1.9	20.0						
4-Bromofluorobenzene (Surr)	0.3394 0.3730	0.3490 0.3673	0.3697 0.3840	0.3598 0.3534	0.3564	Ave	0.3613			3.8	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  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55 Calibration End Date: 10/01/2020 20:22 Calibration ID: 29648

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-339812/3	10012020_002z.D
Level 2	IC 580-339812/4	10012020_003.D
Level 3	IC 580-339812/5	10012020_004.D
Level 4	IC 580-339812/6	10012020_005.D
Level 5	IC 580-339812/7	10012020_006.D
Level 6	ICIS 580-339812/8	10012020_007.D
Level 7	IC 580-339812/9	10012020_008.D
Level 8	IC 580-339812/10	10012020_009.D
Level 9	IC 580-339812/11	10012020_010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Dichlorodifluoromethane	FB	Lin1	++++ 15661	++++ 42473	1238 88460	3831 136948	6077	++++ 20.0	++++ 50.0	2.00 100	5.00 150	10.0
Chloromethane	FB	Ave	++++ 52831	++++ 136383	6708 261276	15299 395346	28191	++++ 20.0	++++ 50.0	2.00 100	5.00 150	10.0
Vinyl chloride	FB	Lin1	++++ 32605	2465 82996	4069 160593	8901 248088	15129	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Butadiene	FB	Ave	766 40370	1712 94420	3289 183030	8757 299222	16660	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Bromomethane	FB	Lin1	++++ 17768	216 41059	1712 78449	4249 125202	6540	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Chloroethane	DCBd 4	Lin1	++++ 5549	++++ 13426	240 23713	1337 39540	2245	++++ 20.0	++++ 50.0	2.00 100	5.00 150	10.0
Dichlorofluoromethane	FB	Ave	++++ 50274	1623 121992	3002 234614	8853 368151	23592	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Trichlorofluoromethane	FB	Ave	++++ 41763	2659 102707	4285 203979	10947 298751	21612	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
3-Chloro-1-propene	CBNZ d5	Lin1	++++ 877	++++ 2222	142 4961	260 7017	616	++++ 20.0	++++ 50.0	2.00 100	5.00 150	10.0
Ethyl ether	FB	Ave	1266 34842	1613 90829	4275 172646	9687 280219	18875	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Acrolein	FB	Ave	++++ 50490	2870 134919	4889 253360	12575 413079	24526	++++ 120	6.00 300	12.0 600	30.0 900	60.0
1,1-Dichloroethene	FB	Ave	++++ 20531	++++ 50482	2417 91566	5843 151175	10577	++++ 20.0	++++ 50.0	2.00 100	5.00 150	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 18086	1171 46532	2550 86531	5429 134371	9885	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Acetone	FB	Ave	++++ 96024	++++ 232724	12231 431845	22009 730791	43868	++++ 100	++++ 250	10.0 500	25.0 750	50.0

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

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119

GC Column: 624SIL-MS ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55

Calibration End Date: 10/01/2020 20:22

Calibration ID: 29648

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Iodomethane	FB	Ave	++++ 37530	2370 92987	4094 163749	9332 273809	18852	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Carbon disulfide	FB	Ave	2099 79277	4506 189832	8296 376662	19993 600510	38886	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Isopropyl alcohol	TBAd 9	Ave	++++ 36468	++++ 93975	4817 177880	9341 296271	19366	++++ 200	++++ 500	20.0 1000	50.0 1500	100
Acetonitrile	FB	Ave	++++ 27094	1585 77541	2275 152676	7748 253351	16710	++++ 250	12.5 625	25.0 1250	62.5 1875	125
Methyl acetate	FB	Lin1	++++ 67556	6595 179692	11559 356937	17843 580367	34167	++++ 40.0	2.00 100	4.00 200	10.0 300	20.0
Methylene Chloride	FB	Lin2	++++ 28991	5638 70908	7078 125838	10431 202732	15867	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
2-Methyl-2-propanol	FB	Ave	++++ 53552	++++ 139494	6626 265922	13292 425697	27103	++++ 200	++++ 500	20.0 1000	50.0 1500	100
Acrylonitrile	FB	Lin2	1895 161505	6918 427677	14804 836620	37652 1357598	76533	5.00 200	10.0 500	20.0 1000	50.0 1500	100
trans-1,2-Dichloroethene	FB	Ave	++++ 28171	1954 75468	3881 142520	8470 228648	15921	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Methyl tert-butyl ether	FB	Lin1	++++ 94778	4194 241863	10034 449950	24642 725543	48568	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Hexane	FB	Lin2	++++ 78547	++++ 197690	14689 370119	26132 572683	48007	++++ 20.0	++++ 50.0	2.00 100	5.00 150	10.0
1,1-Dichloroethane	FB	Ave	1760 71786	4666 185756	8024 353114	19223 568865	40087	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Vinyl acetate	FB	Ave	++++ 16704	++++ 43416	2340 80722	4519 132116	9501	++++ 50.0	++++ 125	5.00 250	12.5 375	25.0
2-Chloro-1,3-butadiene	FB	Ave	1947 92437	5500 241228	10596 452946	24087 721231	48704	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Isopropyl ether	FB	Ave	6356 231657	10907 609405	23944 1149371	58878 1816191	118866	0.625 25.0	1.25 62.5	2.50 125	6.25 188	12.5
Tert-butyl ethyl ether	FB	Ave	1536 50779	2208 134160	6674 254389	13517 401701	28049	0.625 25.0	1.25 62.5	2.50 125	6.25 188	12.5
2,2-Dichloropropane	FB	Ave	++++ 50611	++++ 128368	5053 234742	13926 373910	26449	++++ 20.0	++++ 50.0	2.00 100	5.00 150	10.0
cis-1,2-Dichloroethene	FB	Ave	++++ 35190	++++ 90084	3759 169133	10386 266830	18440	++++ 20.0	++++ 50.0	2.00 100	5.00 150	10.0
2-Butanone (MEK)	FB	Ave	++++ 19499	++++ 50139	2175 95835	5380 153067	8267	++++ 100	++++ 250	10.0 500	25.0 750	50.0
Propionitrile	FB	Ave	++++ 78329	4166 210309	7921 405603	17608 648735	37162	++++ 250	12.5 625	25.0 1250	62.5 1875	125
Ethyl acetate	FB	Ave	++++ 107142	5214 267756	10845 532431	25581 842468	52695	++++ 40.0	2.00 100	4.00 200	10.0 300	20.0

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

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119

GC Column: 624SIL-MS ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55

Calibration End Date: 10/01/2020 20:22

Calibration ID: 29648

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methacrylonitrile	FB	Ave	3273 132166	9105 341995	14102 655866	32341 1020630	65750	5.00 200	10.0 500	20.0 1000	50.0 1500	100
Chlorobromomethane	FB	Ave	514 20456	1136 52137	2680 98209	5744 156370	11207	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Chloroform	FB	Ave	1712 58486	4124 151596	7577 290618	15926 459668	32436	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,1,1-Trichloroethane	FB	Ave	1376 52839	2921 135902	5588 257182	14629 409220	29062	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Cyclohexane	FB	Ave	1195 42569	2803 110544	5372 208599	12142 333878	23601	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Carbon tetrachloride	FB	Lin1	++++ 48222	2830 124170	5736 236221	12344 373145	25719	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,1-Dichloropropene	FB	Ave	1664 45883	2688 118975	5127 226470	12464 355995	24543	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Benzene	FB	Ave	3906 130593	7241 339514	13943 631654	35669 995896	69862	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Isobutyl alcohol	TBAd 9	Ave	++++ 68427	4124 176066	6899 352285	20080 557422	34690	++++ 500	25.0 1250	50.0 2500	125 3750	250
1,2-Dichloroethane	FB	Ave	1998 61020	3253 158930	6452 300688	16098 477905	32087	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Tert-amyl methyl ether	FB	Ave	3937 117920	6267 316882	13154 594903	30733 920313	60988	0.625 25.0	1.25 62.5	2.50 125	6.25 188	12.5
n-Heptane	FB	Ave	2705 92120	5259 241590	10782 462754	24588 725391	51789	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Tetrahydrofuran	FB	Lin1	1450 24862	2029 64067	3877 119085	5839 186874	14384	1.00 40.0	2.00 100	4.00 200	10.0 300	20.0
Trichloroethene	FB	Ave	1206 34136	1959 87241	4278 168348	9315 258631	18723	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Ethyl acrylate	FB	Ave	2629 59775	4075 163376	7746 323232	17790 496459	31671	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
n-Butanol	FB	Ave	829 23107	1158 58148	2767 110865	6210 177567	13596	12.5 500	25.0 1250	50.0 2500	125 3750	250
Methylcyclohexane	FB	Ave	1439 57205	3995 146816	6651 279947	16266 434947	28778	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,2-Dichloropropane	FB	Ave	1161 41075	2530 109062	4834 205417	10615 321698	22091	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Dibromomethane	FB	Ave	463 19038	930 49490	2077 95999	5164 147270	9966	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Methyl methacrylate	FB	Ave	++++ 43899	2369 113479	5483 220861	10635 345484	22294	++++ 40.0	2.00 100	4.00 200	10.0 300	20.0
Dichlorobromomethane	FB	Ave	++++ 47121	2986 125082	5955 234820	12190 366216	24436	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0

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

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119

GC Column: 624SIL-MS ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55

Calibration End Date: 10/01/2020 20:22

Calibration ID: 29648

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
2-Nitropropane	FB	Ave	++++ 43151	3027 108467	5426 215669	12511 336479	22589	++++ 40.0	2.00 100	4.00 200	10.0 300	20.0
2-Chloroethyl vinyl ether	CBNZ d5	Lin2	1035 18396	1223 47423	2338 98268	4566 151259	10549	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	1954 56514	3254 147201	6075 285179	14820 434213	28982	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	2700 81788	4534 215600	8533 423587	20578 659548	38585	2.50 100	5.00 250	10.0 500	25.0 750	50.0
Toluene	CBNZ d5	Ave	++++ 142578	9868 375596	17809 723006	40634 1111969	77230	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
n-Butyl acetate	CBNZ d5	Lin1	++++ 9748	++++ 24322	++++ 48835	2443 75797	7202	++++ 20.0	++++ 50.0	++++ 100	5.00 150	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	1509 51378	3142 137570	5763 268387	13134 408322	27545	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Ethyl methacrylate	CBNZ d5	Ave	++++ 37727	++++ 101762	5158 199983	10061 301696	20260	++++ 20.0	++++ 50.0	2.00 100	5.00 150	10.0
1,1,2-Trichloroethane	CBNZ d5	Lin2	1347 25851	1903 72051	3593 141552	7642 210154	14421	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Tetrachloroethene	DCBd 4	Ave	++++ 28436	1697 76458	2982 144995	7606 222393	14847	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,3-Dichloropropene	CBNZ d5	Ave	1244 48581	2910 127259	5688 250196	12616 378266	24900	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
2-Hexanone	CBNZ d5	Ave	2441 78781	5083 210422	7563 422067	20693 654973	38021	2.50 100	5.00 250	10.0 500	25.0 750	50.0
Chlorodibromomethane	CBNZ d5	Ave	944 35216	1973 93511	4110 182204	9699 270244	18136	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Ethylene Dibromide	CBNZ d5	Lin1	++++ 27112	1621 70892	3160 139027	6955 215530	14568	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Chlorobenzene	CBNZ d5	Ave	2645 93737	5269 251452	10272 495310	25105 725921	50900	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	1208 35344	1812 95898	4271 179332	9612 263315	18608	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Ethylbenzene	CBNZ d5	Lin2	7722 157110	10410 416988	17971 829228	41554 1229582	84458	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	5137 122258	9563 333938	14132 659236	33946 974983	65665	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
o-Xylene	CBNZ d5	Lin2	6328 129096	8907 336675	15472 662697	34762 974028	67296	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Styrene	CBNZ d5	Ave	++++ 88077	5401 240307	10810 475072	23683 688649	45849	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Bromoform	CBNZ d5	Ave	654 21653	1041 57564	2154 113079	5625 167384	10948	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0

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

Lab Name: Eurofins TestAmerica, Seattle

Job No.: 580-98033-1

Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119

GC Column: 624SIL-MS ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55

Calibration End Date: 10/01/2020 20:22

Calibration ID: 29648

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Isopropylbenzene	CBNZ d5	Ave	++++ 150415	9948 398978	16880 784670	41103 1122971	81835	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Lin1	1607 30727	2614 82608	3295 160439	8162 240155	15388	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Bromobenzene	DCBd 4	Ave	1101 34634	1987 94916	3726 184587	8665 269388	18372	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin2	++++ 16194	1296 41491	2406 86381	4706 126008	8275	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	++++ 9971	632 25734	1172 50152	2498 72592	5319	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
N-Propylbenzene	DCBd 4	Ave	++++ 171730	9880 459170	19940 926962	45666 1316819	92028	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
2-Chlorotoluene	DCBd 4	Ave	846 33263	2233 93463	4036 183412	9416 258162	18973	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	3668 124032	7300 332009	13493 654809	32898 915102	68763	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
4-Chlorotoluene	DCBd 4	Ave	1143 33650	2335 92410	4264 183562	9273 264868	17624	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
tert-Butylbenzene	DCBd 4	Ave	3526 117144	6628 308689	11780 599400	30518 843053	61242	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	3019 123105	8616 330237	14747 646671	32113 899351	65597	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
sec-Butylbenzene	DCBd 4	Ave	4555 160882	9512 438089	18287 840293	43485 1172331	85133	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	1983 61393	3468 171197	7413 338244	15880 468521	32850	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
4-Isopropyltoluene	DCBd 4	Ave	4225 133137	7989 362964	14360 695324	34722 959240	68799	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	1940 59851	3687 170924	7474 333302	16617 462135	31909	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	4519 128761	7458 346912	15784 657732	34244 909981	67315	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Benzyl chloride	DCBd 4	Ave	++++ 13385	++++ 35474	1722 69089	3660 99894	7632	++++ 20.0	++++ 50.0	2.00 100	5.00 150	10.0
n-Butylbenzene	DCBd 4	Ave	914 30215	2243 83981	4121 166308	8964 225734	17347	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	1695 59934	3533 165657	6722 324833	15641 456999	32514	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 6667	++++ 17182	793 34384	1706 48962	3611	++++ 20.0	++++ 50.0	2.00 100	5.00 150	10.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	1499 42599	3116 118468	5212 225928	13038 314774	23373	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0

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

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55 Calibration End Date: 10/01/2020 20:22 Calibration ID: 29648

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
1,2,4-Trichlorobenzene	DCBd 4	Ave	++++ 37625	2441 105991	4598 197620	11080 281340	20927	++++ 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Hexachlorobutadiene	DCBd 4	Ave	671 23959	1365 65770	2647 124722	6996 177065	13170	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Naphthalene	DCBd 4	Ave	3790 99523	7014 269695	11893 512374	28583 748640	52189	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	1337 38657	2647 106127	4519 197375	10441 281227	20585	0.500 20.0	1.00 50.0	2.00 100	5.00 150	10.0
Dibromofluoromethane (Surr)	FB	Ave	18028 17087	17884 18066	17819 16411	16618 17269	18004	10.0 10.0	10.0 10.0	10.0 10.0	10.0 10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	24269 23618	23573 24931	24251 22566	23411 23598	23856	10.0 10.0	10.0 10.0	10.0 10.0	10.0 10.0	10.0
Toluene-d8 (Surr)	CBNZ d5	Ave	70197 64647	64856 65635	66025 63165	61886 65928	66341	10.0 10.0	10.0 10.0	10.0 10.0	10.0 10.0	10.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	18976 18738	18323 19692	19006 19565	17337 18520	18981	10.0 10.0	10.0 10.0	10.0 10.0	10.0 10.0	10.0

Curve Type Legend:

<p>Ave = Average ISTD Lin1 = Linear 1/conc ISTD Lin2 = Linear 1/conc^2 ISTD</p>
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FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55 Calibration End Date: 10/01/2020 20:22 Calibration ID: 29648

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-339812/3	10012020_002z.D
Level 2	IC 580-339812/4	10012020_003.D
Level 3	IC 580-339812/5	10012020_004.D
Level 4	IC 580-339812/6	10012020_005.D
Level 5	IC 580-339812/7	10012020_006.D
Level 6	ICIS 580-339812/8	10012020_007.D
Level 7	IC 580-339812/9	10012020_008.D
Level 8	IC 580-339812/10	10012020_009.D
Level 9	IC 580-339812/11	10012020_010.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	+++++	+++++	21.7						30			
Chloromethane	+++++	+++++	16.9						50			
Vinyl chloride	+++++	9.4						30				
Butadiene	-20.7						50					
Bromomethane	+++++	-29.4						30				
Chloroethane	+++++	+++++	-20.3						30			
Dichlorofluoromethane	+++++	-22.8						50				
Trichlorofluoromethane	+++++	23.9						50				
3-Chloro-1-propene	+++++	+++++	-2.5						30			
Ethyl ether	22.4						50					
Acrolein	+++++	11.5						50				
1,1-Dichloroethene	+++++	+++++	13.1						50			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++	16.6						50				
Acetone	+++++	+++++	26.2						50			



FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55 Calibration End Date: 10/01/2020 20:22 Calibration ID: 29648

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #				LVL 7	LVL 8	LVL 9			
Iodomethane	+++++	24.6						50				
Carbon disulfide	-3.7						50					
Isopropyl alcohol	+++++	+++++	29.4						50			
Acetonitrile	+++++	6.2						50				
Methyl acetate	+++++	16.9						30				
Methylene Chloride	+++++	-0.1						30				
2-Methyl-2-propanol	+++++	+++++	16.8						50			
Acrylonitrile	-4.4						30					
trans-1,2-Dichloroethene	+++++	21.0						50				
Methyl tert-butyl ether	+++++	-10.7						30				
Hexane	+++++	+++++	-2.5						30			
1,1-Dichloroethane	-15.6						50					
Vinyl acetate	+++++	+++++	26.3						50			
2-Chloro-1,3-butadiene	-25.1						50					
Isopropyl ether	-0.7						50					
Tert-butyl ethyl ether	4.2						50					
2,2-Dichloropropane	+++++	+++++	-2.3						50			
cis-1,2-Dichloroethene	+++++	+++++	1.3						50			
2-Butanone (MEK)	+++++	+++++	8.3						50			
Propionitrile	+++++	5.7						50				
Ethyl acetate	+++++	-1.3						50				

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55 Calibration End Date: 10/01/2020 20:22 Calibration ID: 29648

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #				LVL 7	LVL 8	LVL 9			
Methacrylonitrile	-13.0						50					
Chlorobromomethane	-13.3						50					
Chloroform	-4.0						50					
1,1,1-Trichloroethane	-8.3						50					
Cyclohexane	-6.7						50					
Carbon tetrachloride	+++++	-3.5						30				
1,1-Dichloropropene	21.6						50					
Benzene	4.2						50					
Isobutyl alcohol	+++++	7.3						50				
1,2-Dichloroethane	13.6						50					
Tert-amyl methyl ether	14.6						50					
n-Heptane	0.0						50					
Tetrahydrofuran	-15.3						30					
Trichloroethene	17.6						50					
Ethyl acrylate	34.2						50					
n-Butanol	21.3						50					
Methylcyclohexane	-14.1						50					
1,2-Dichloropropane	-3.5						50					
Dibromomethane	-12.6						50					
Methyl methacrylate	+++++	3.8						50				
Dichlorobromomethane	+++++	17.8						50				

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55 Calibration End Date: 10/01/2020 20:22 Calibration ID: 29648

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #				LVL 7	LVL 8	LVL 9			
2-Nitropropane	+++++	27.1						50				
2-Chloroethyl vinyl ether	9.3						30					
cis-1,3-Dichloropropene	18.9						50					
4-Methyl-2-pentanone (MIBK)	15.5						50					
Toluene	+++++	21.2						50				
n-Butyl acetate	+++++	+++++	+++++	-20.3							30	
trans-1,3-Dichloropropene	0.5						50					
Ethyl methacrylate	+++++	+++++	24.0						50			
1,1,2-Trichloroethane	-0.2						30					
Tetrachloroethene	+++++	12.5						50				
1,3-Dichloropropane	-10.5						50					
2-Hexanone	6.5						50					
Chlorodibromomethane	-6.7						50					
Ethylene Dibromide	+++++	-3.4						30				
Chlorobenzene	-2.3						50					
1,1,1,2-Tetrachloroethane	16.5						50					
Ethylbenzene	5.2						30					
m-Xylene & p-Xylene	30.5						50					
o-Xylene	1.7						30					
Styrene	+++++	9.6						50				
Bromoform	8.2						50					

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55 Calibration End Date: 10/01/2020 20:22 Calibration ID: 29648

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #				LVL 7	LVL 8	LVL 9			
Isopropylbenzene	+++++	19.0						50				
1,1,2,2-Tetrachloroethane	13.4						30					
Bromobenzene	15.2						50					
trans-1,4-Dichloro-2-butene	+++++	-5.7						30				
1,2,3-Trichloropropane	+++++	19.1						50				
N-Propylbenzene	+++++	6.9						50				
2-Chlorotoluene	-11.1						50					
1,3,5-Trimethylbenzene	7.5						50					
4-Chlorotoluene	15.4						50					
tert-Butylbenzene	12.4						50					
1,2,4-Trimethylbenzene	-11.4						50					
sec-Butylbenzene	3.2						50					
1,3-Dichlorobenzene	14.6						50					
4-Isopropyltoluene	15.4						50					
1,4-Dichlorobenzene	11.9						50					
1,2,3-Trimethylbenzene	24.9						50					
Benzyl chloride	+++++	+++++	16.7						50			
n-Butylbenzene	0.8						50					
1,2-Dichlorobenzene	2.4						50					
1,2-Dibromo-3-Chloropropane	+++++	+++++	11.8						50			
1,3,5-Trichlorobenzene	17.6						50					

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 339812

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 GC Column: 624SIL-MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/01/2020 16:55 Calibration End Date: 10/01/2020 20:22 Calibration ID: 29648

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #				LVL 7	LVL 8	LVL 9			
1,2,4-Trichlorobenzene	+++++	15.6						50				
Hexachlorobutadiene	1.4						50					
Naphthalene	29.0						50					
1,2,3-Trichlorobenzene	20.4						50					
Dibromofluoromethane (Surr)	-4.5						50					
1,2-Dichloroethane-d4 (Surr)	-5.6						50					
Toluene-d8 (Surr)	-0.1						50					
4-Bromofluorobenzene (Surr)	-6.1						50					

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 01-Oct-2020 16:55:30 ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 0.05  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 02-Oct-2020 11:32:11 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1029

First Level Reviewer: bohnc

Date: 02-Oct-2020 09:05:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
4 Chloromethane	50	1.916	1.916	0.000	24	2561	0.5000	0.8282	M
5 Vinyl chloride	62	2.062	2.062	0.000	1	979	0.5000	0.1146	M
6 Butadiene	54	2.099	2.099	0.000	49	766	0.5000	0.3967	
17 Ethyl ether	59	3.331	3.331	0.000	38	1266	0.5000	0.6122	M
16 Acetone	43	3.757	3.757	0.000	77	11196	2.50	10.7	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.727	3.727	0.000	11	405	0.5000	0.3655	
22 Iodomethane	142	3.879	3.879	0.000	45	581	0.5000	0.2770	
26 Carbon disulfide	76	3.977	3.977	0.000	35	2099	0.5000	0.4814	M
15 Isopropyl alcohol	45	4.123	4.123	0.000	1	289	5.00	1.35	
S 2 Xylenes, Total	100				0			1.16	
23 Methylene Chloride	84	4.525	4.525	0.000	82	3152	0.5000	-1.26	
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	41909	200.0	200.0	
20 2-Methyl-2-propanol	59	4.830	4.830	0.000	1	729	5.00	2.38	
21 Acrylonitrile	53	4.983	4.983	0.000	62	1895	5.00	4.78	
27 trans-1,2-Dichloroethene	96	5.056	5.056	0.000	14	680	0.5000	0.3818	
28 Methyl tert-butyl ether	73	5.062	5.062	0.000	13	674	0.5000	0.1287	
34 Hexane	57	5.623	5.623	0.000	65	9191	0.5000	0.3334	M
30 1,1-Dichloroethane	63	5.897	5.897	0.000	19	1760	0.5000	0.4218	M
31 Vinyl acetate	86	5.982	5.982	0.000	77	296	1.25	0.7410	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	34	1947	0.5000	0.3746	M
35 Isopropyl ether	45	6.049	6.049	0.000	39	6356	0.6250	0.6205	
41 Tert-butyl ethyl ether	87	6.702	6.702	0.000	62	1536	0.6250	0.6514	M
43 2,2-Dichloropropane	77	6.921	6.921	0.000	1	545	0.5000	0.1955	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	24	389	0.5000	0.1945	
29 Propionitrile	54	7.013	7.013	0.000	48	1144	6.25	3.29	
38 Ethyl acetate	43	7.037	7.037	0.000	72	2302	1.00	0.7903	
36 Methacrylonitrile	67	7.257	7.257	0.000	90	3273	5.00	4.35	M
39 Chlorobromomethane	130	7.281	7.281	0.000	30	514	0.5000	0.4334	M
40 Chloroform	83	7.500	7.500	0.000	49	1712	0.5000	0.4798	M
48 1,1,1-Trichloroethane	97	7.702	7.702	0.000	27	1376	0.5000	0.4586	M
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	71	18028	10.0	9.55	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
51 Cyclohexane	84	7.793	7.793	0.000	28	1195	0.5000	0.4663	M
52 Carbon tetrachloride	117	7.933	7.933	0.000	42	824	0.5000	0.1026	
50 1,1-Dichloropropene	75	7.939	7.939	0.000	41	1664	0.5000	0.6079	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.171	8.171	0.000	0	24269	10.0	9.44	
53 Benzene	78	8.195	8.195	0.000	51	3906	0.5000	0.5212	
42 Isobutyl alcohol	43	8.202	8.202	0.000	56	3305	12.5	20.8	
47 1,2-Dichloroethane	62	8.281	8.281	0.000	47	1998	0.5000	0.5681	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	40	3937	0.6250	0.7165	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	96	70953	10.0	10.0	
45 Tetrahydrofuran	42	8.628	8.628	0.000	1	1450	1.00	0.8474	M
56 n-Heptane	43	8.622	8.622	0.000	18	2705	0.5000	0.4999	
61 Trichloroethene	132	9.031	9.031	0.000	36	1206	0.5000	0.5881	M
57 Ethyl acrylate	55	9.159	9.159	0.000	14	2629	0.5000	0.6709	
49 n-Butanol	56	9.281	9.281	0.000	3	829	12.5	15.2	
66 Methylcyclohexane	83	9.262	9.262	0.000	33	1439	0.5000	0.4297	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	5	1161	0.5000	0.4824	
59 Dibromomethane	174	9.384	9.384	0.000	7	463	0.5000	0.4371	
63 Methyl methacrylate	69	9.403	9.403	0.000	68	853	1.00	0.6779	
62 Dichlorobromomethane	83	9.573	9.573	0.000	16	2074	0.5000	0.7416	Ma
58 2-Nitropropane	43	9.799	9.799	0.000	43	873	1.00	0.6648	
65 2-Chloroethyl vinyl ether	63	9.884	9.884	0.000	1	1035	0.5000	0.5463	M
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	27	1954	0.5000	0.5943	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	82	2700	2.50	2.89	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	95	70197	10.0	9.99	
74 Toluene	91	10.335	10.335	0.000	87	6415	0.5000	0.7401	
69 trans-1,3-Dichloropropene	75	10.561	10.561	0.000	49	1509	0.5000	0.5027	
71 1,1,2-Trichloroethane	97	10.750	10.750	0.000	17	1347	0.5000	0.4992	
79 Tetrachloroethene	164	10.817	10.817	0.000	68	1141	0.5000	0.7401	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	58	1244	0.5000	0.4476	
76 2-Hexanone	58	10.933	10.933	0.000	88	2441	2.50	2.66	
77 Chlorodibromomethane	129	11.079	11.079	0.000	54	944	0.5000	0.4666	M
78 Ethylene Dibromide	107	11.170	11.170	0.000	63	1615	0.5000	0.8929	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	88	55907	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	45	2645	0.5000	0.4887	M
80 1,1,1,2-Tetrachloroethane	131	11.676	11.676	0.000	24	1208	0.5000	0.5827	
83 Ethylbenzene	91	11.683	11.683	0.000	74	7722	0.5000	0.5259	
84 m-Xylene & p-Xylene	91	11.798	11.798	0.000	0	5137	0.5000	0.6526	
88 o-Xylene	91	12.115	12.115	0.000	89	6328	0.5000	0.5086	
86 Styrene	104	12.128	12.128	0.000	78	3596	0.5000	0.6856	
85 Bromoform	173	12.286	12.286	0.000	12	654	0.5000	0.5410	
91 Isopropylbenzene	105	12.414	12.414	0.000	75	6316	0.5000	0.7098	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	83	18976	10.0	9.39	
87 1,1,2,2-Tetrachloroethane	83	12.658	12.658	0.000	38	1607	0.5000	0.5672	
93 Bromobenzene	156	12.676	12.676	0.000	79	1101	0.5000	0.5761	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	35	598	0.5000	0.0862	
90 1,2,3-Trichloropropane	110	12.713	12.713	0.000	1	427	0.5000	0.7878	
94 N-Propylbenzene	91	12.756	12.756	0.000	80	7448	0.5000	0.7885	
95 2-Chlorotoluene	126	12.835	12.835	0.000	56	846	0.5000	0.4446	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	67	3668	0.5000	0.5373	
96 4-Chlorotoluene	126	12.926	12.926	0.000	72	1143	0.5000	0.5772	
98 tert-Butylbenzene	119	13.152	13.152	0.000	49	3526	0.5000	0.5620	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	60	3019	0.5000	0.4428	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
100 sec-Butylbenzene	105	13.329	13.329	0.000	76	4555	0.5000	0.5160	M
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	68	1983	0.5000	0.5729	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	62	4225	0.5000	0.5771	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	96	22357	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.505	13.505	0.000	50	1940	0.5000	0.5596	M
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	5	4519	0.5000	0.6244	
101 Benzyl chloride	126	13.591	13.591	0.000	61	654	0.5000	0.8810	
108 n-Butylbenzene	134	13.761	13.761	0.000	72	914	0.5000	0.5042	
107 1,2-Dichlorobenzene	146	13.792	13.792	0.000	36	1695	0.5000	0.5118	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	49	1499	0.5000	0.5882	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	57	1567	0.5000	0.7265	
113 Hexachlorobutadiene	225	15.139	15.139	0.000	1	671	0.5000	0.5072	
112 Naphthalene	128	15.249	15.249	0.000	70	3790	0.5000	0.6448	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	16	1337	0.5000	0.6021	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 0.05

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D

Injection Date: 01-Oct-2020 16:55:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 2

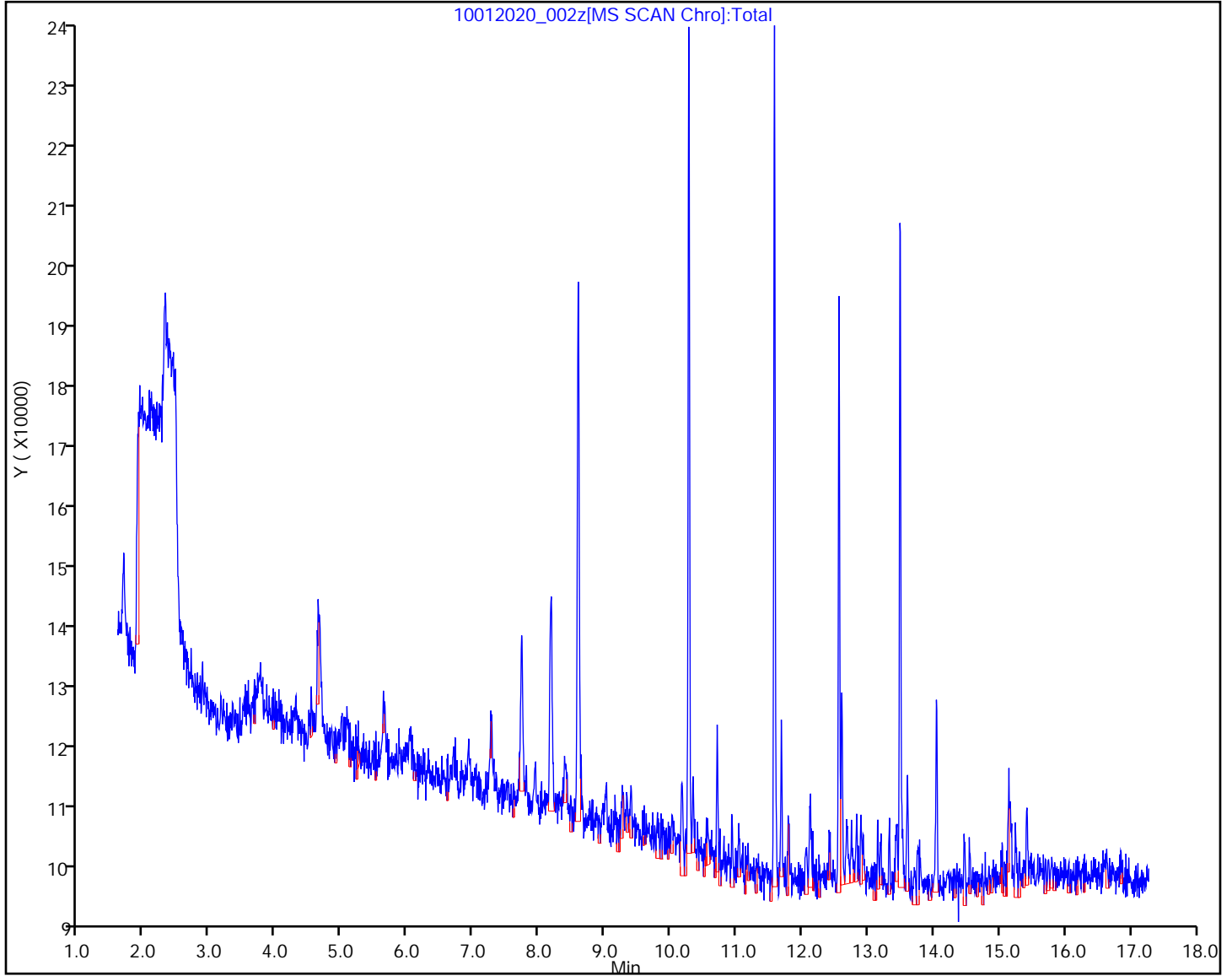
Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

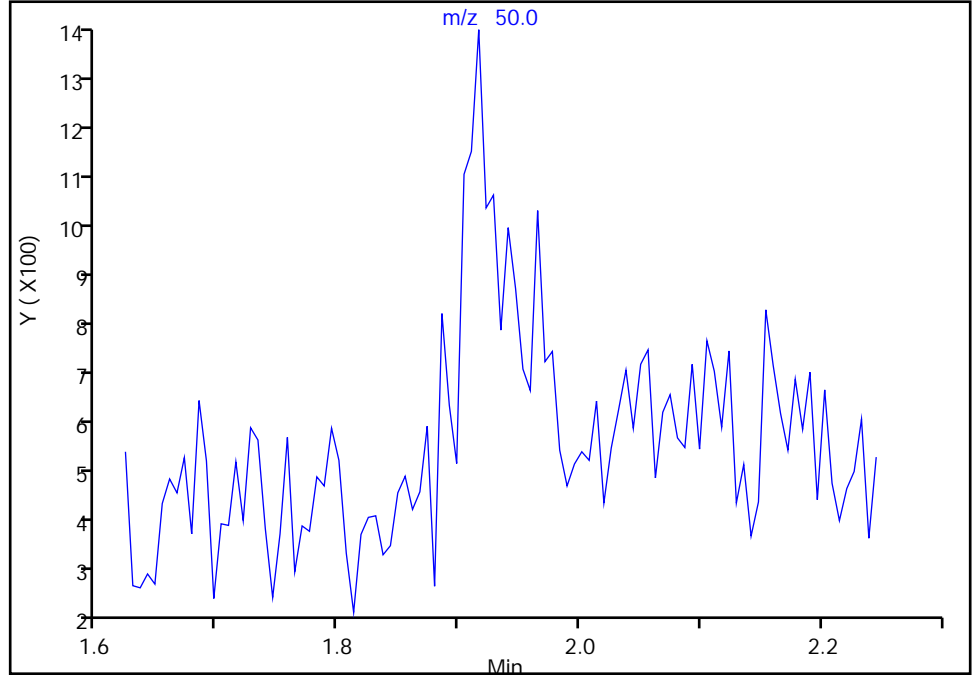
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Signal: 1

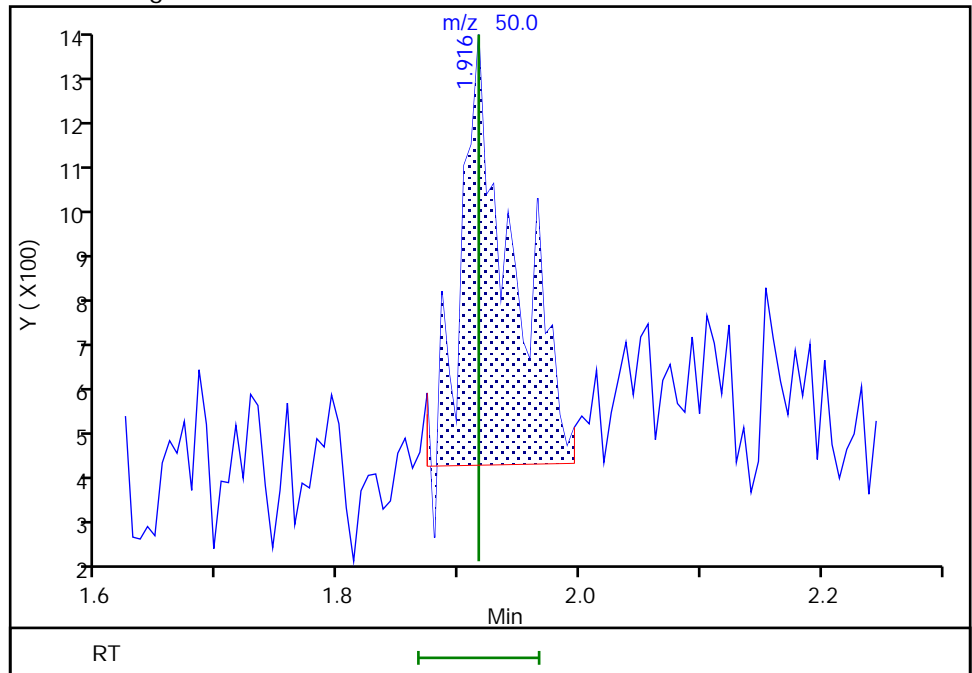
Not Detected  
Expected RT: 1.92

Processing Integration Results



Manual Integration Results

RT: 1.92  
Area: 2561  
Amount: 0.828170  
Amount Units: ug/L



Reviewer: bohnc, 02-Oct-2020 08:59:14  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Seattle

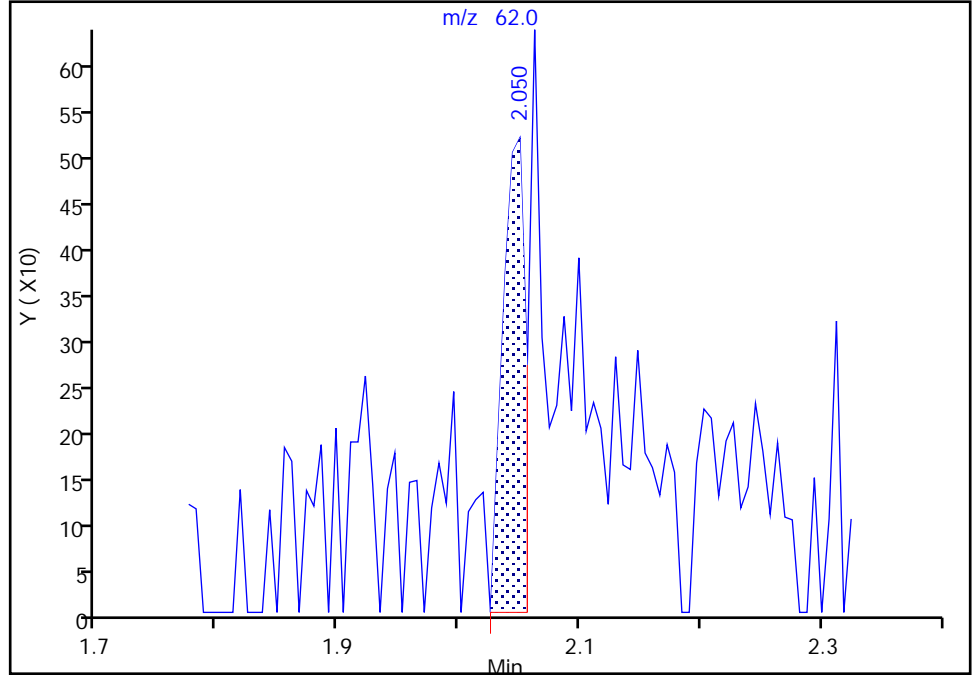
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Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

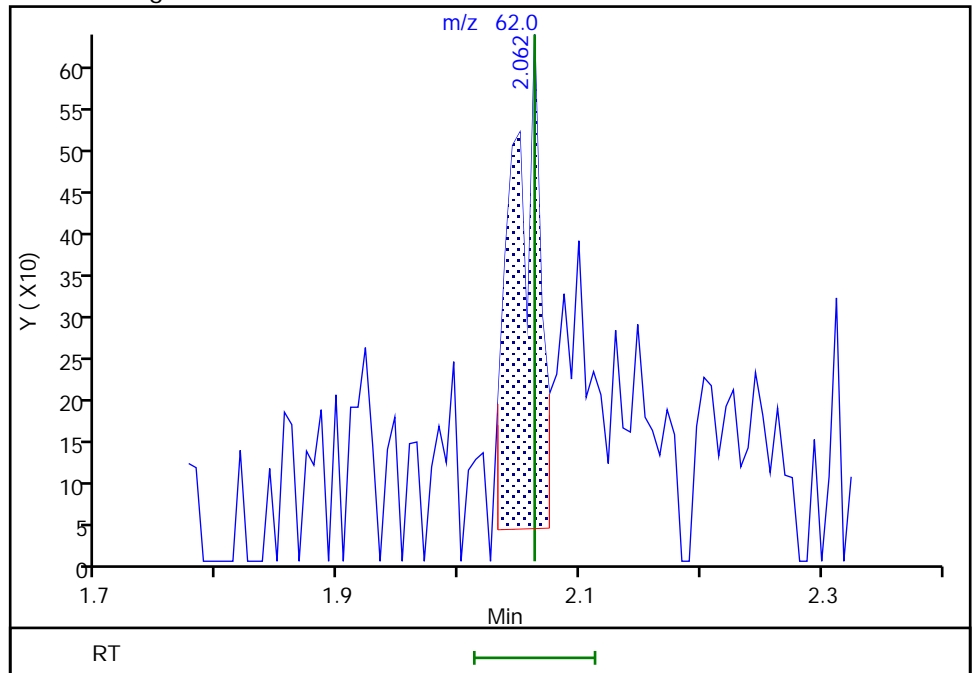
RT: 2.05  
Area: 677  
Amount: 0.357830  
Amount Units: ug/L

Processing Integration Results



RT: 2.06  
Area: 979  
Amount: 0.114633  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 08:59:28  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Seattle

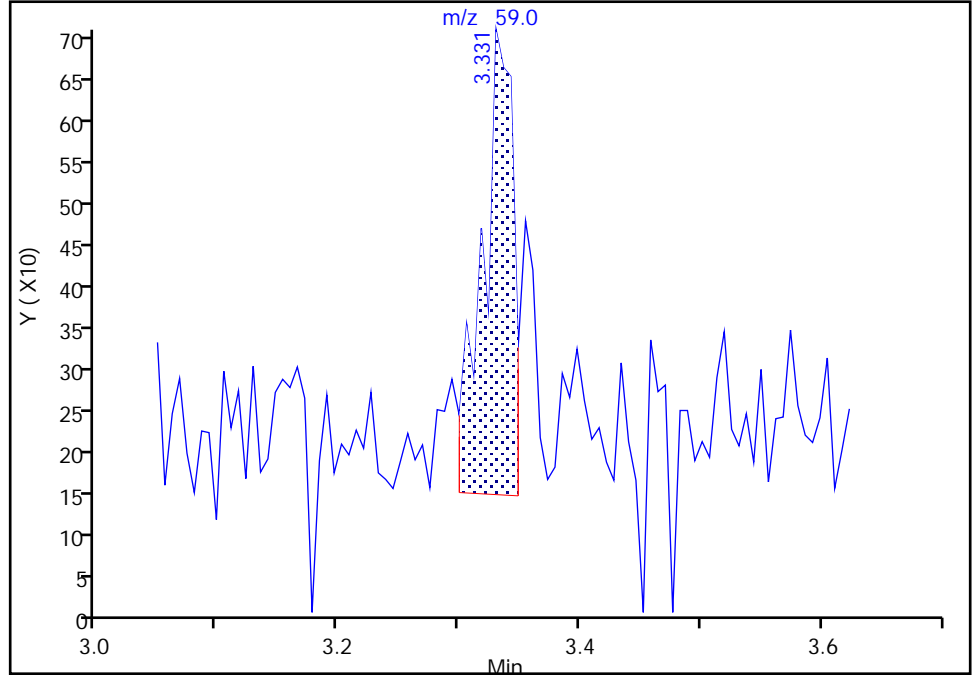
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

17 Ethyl ether, CAS: 60-29-7

Signal: 1

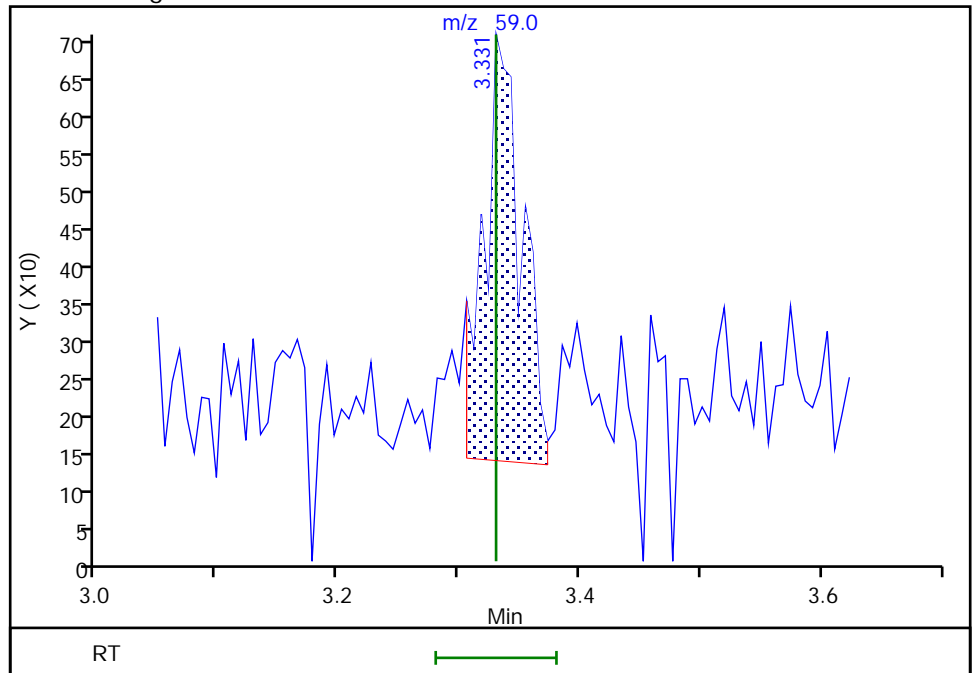
RT: 3.33  
Area: 1006  
Amount: 0.514742  
Amount Units: ug/L

Processing Integration Results



RT: 3.33  
Area: 1266  
Amount: 0.612245  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:00:12  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Seattle

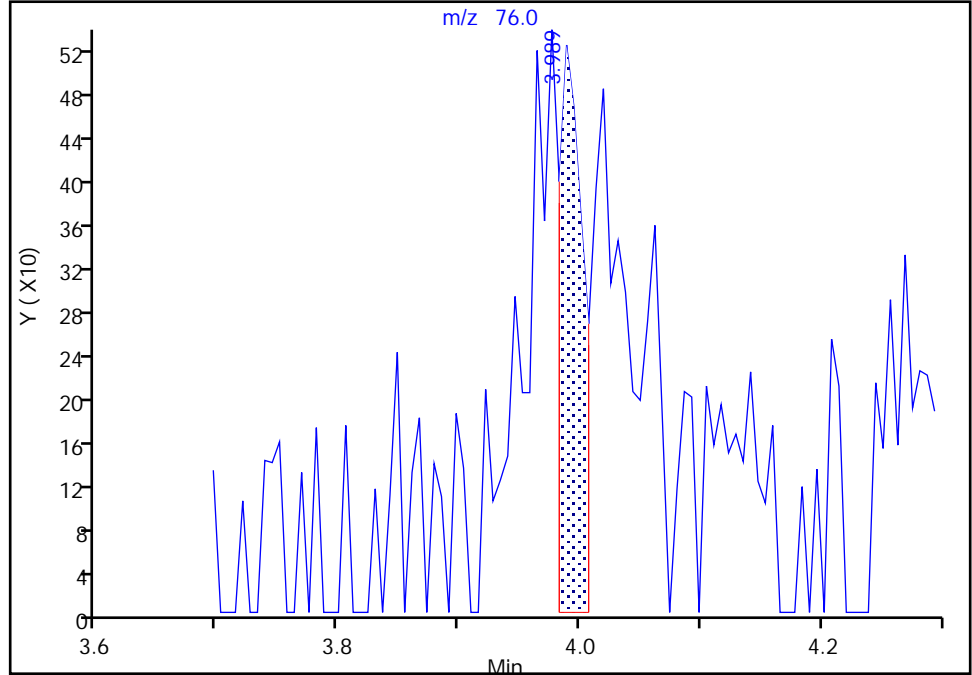
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

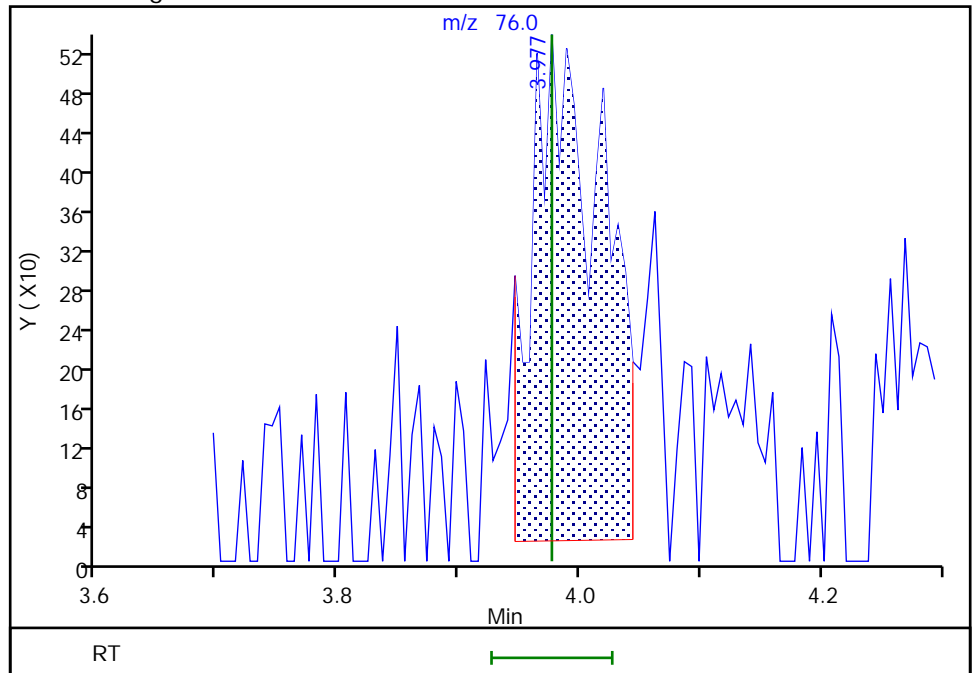
RT: 3.99  
Area: 730  
Amount: 0.179992  
Amount Units: ug/L

Processing Integration Results



RT: 3.98  
Area: 2099  
Amount: 0.481427  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:01:36  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Seattle

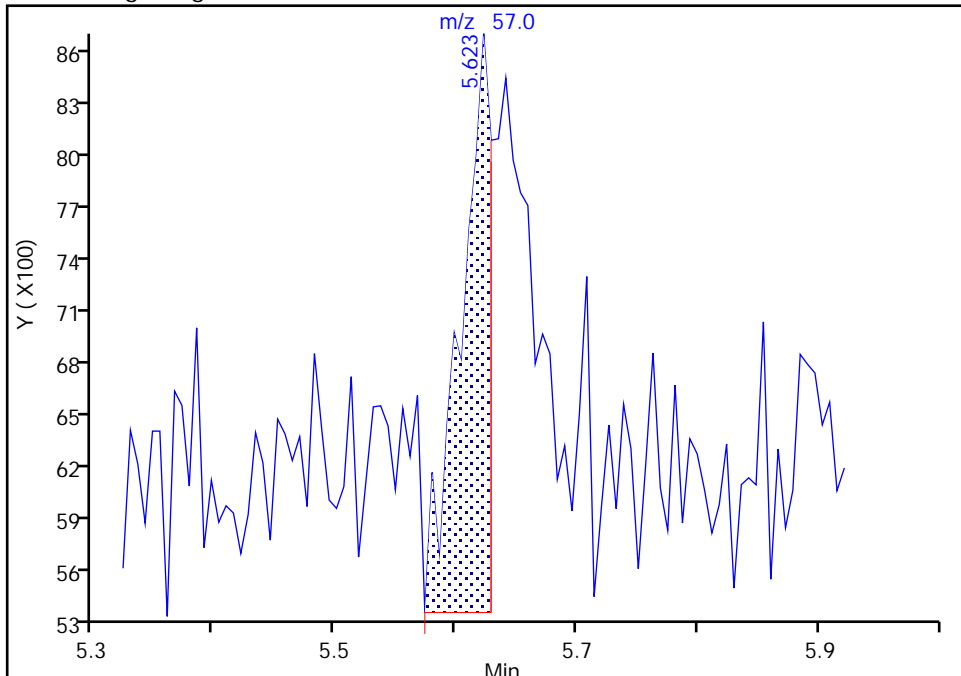
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

34 Hexane, CAS: 110-54-3

Signal: 1

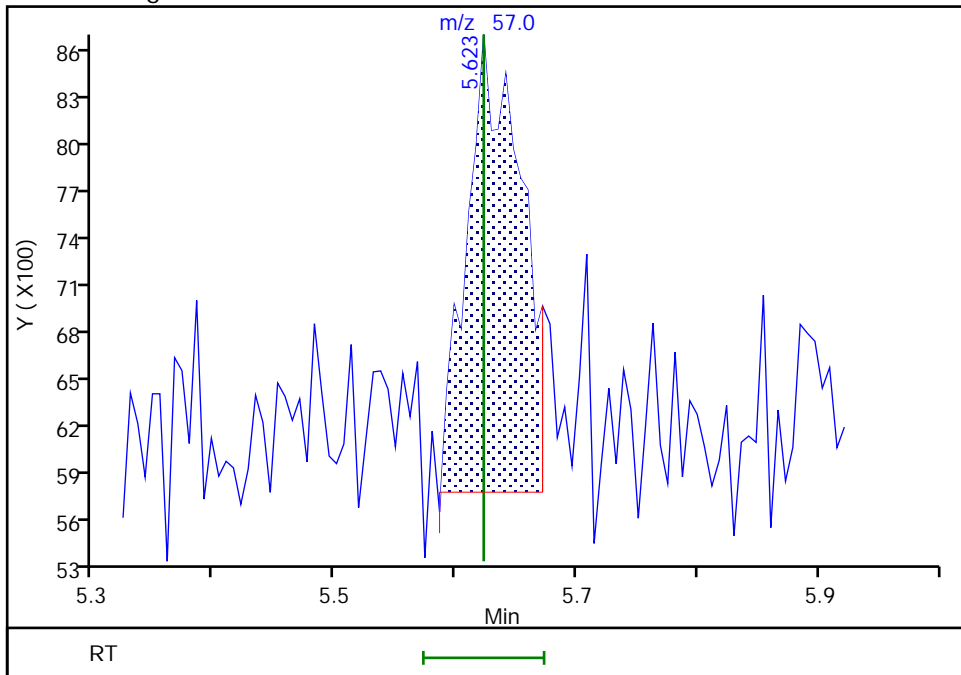
RT: 5.62  
Area: 5866  
Amount: 0.845495  
Amount Units: ug/L

Processing Integration Results



RT: 5.62  
Area: 9191  
Amount: 0.333364  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:02:04  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

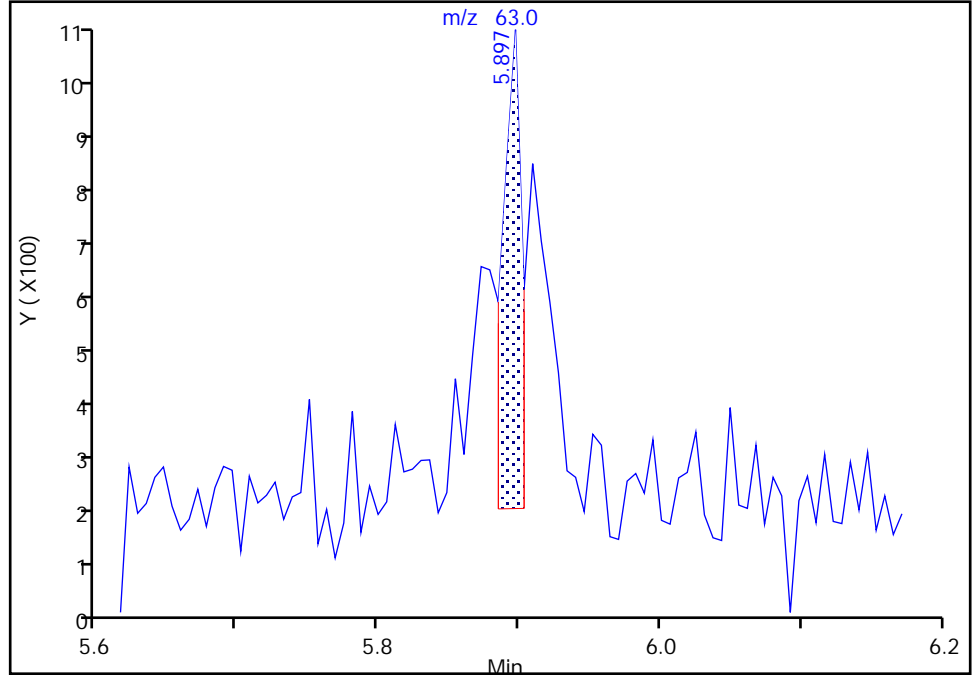
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

30 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

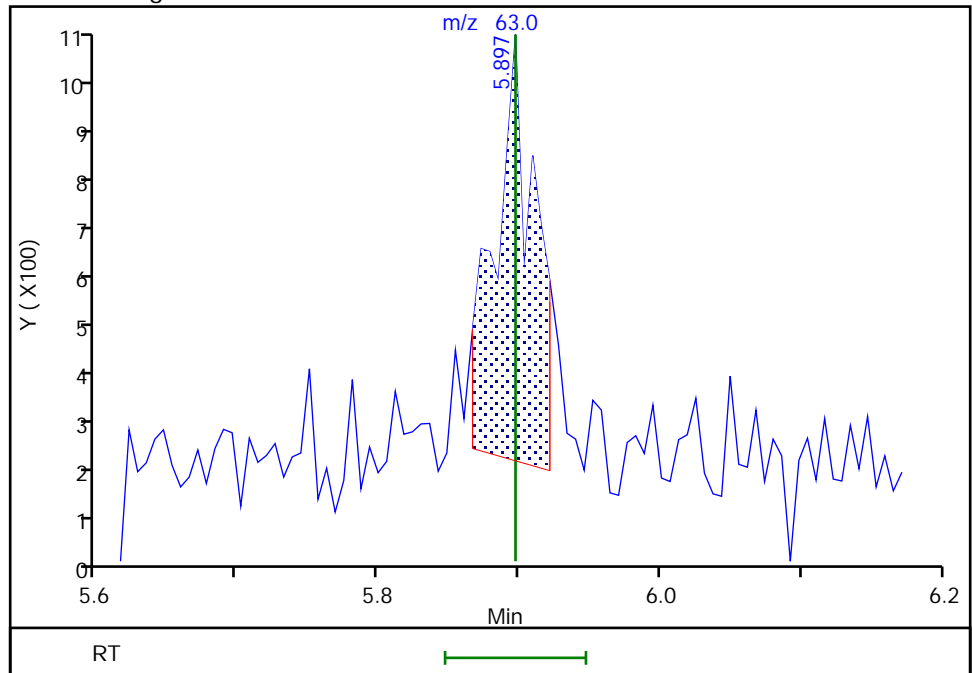
RT: 5.90  
Area: 843  
Amount: 0.212429  
Amount Units: ug/L

Processing Integration Results



RT: 5.90  
Area: 1760  
Amount: 0.421844  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:02:09  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Seattle

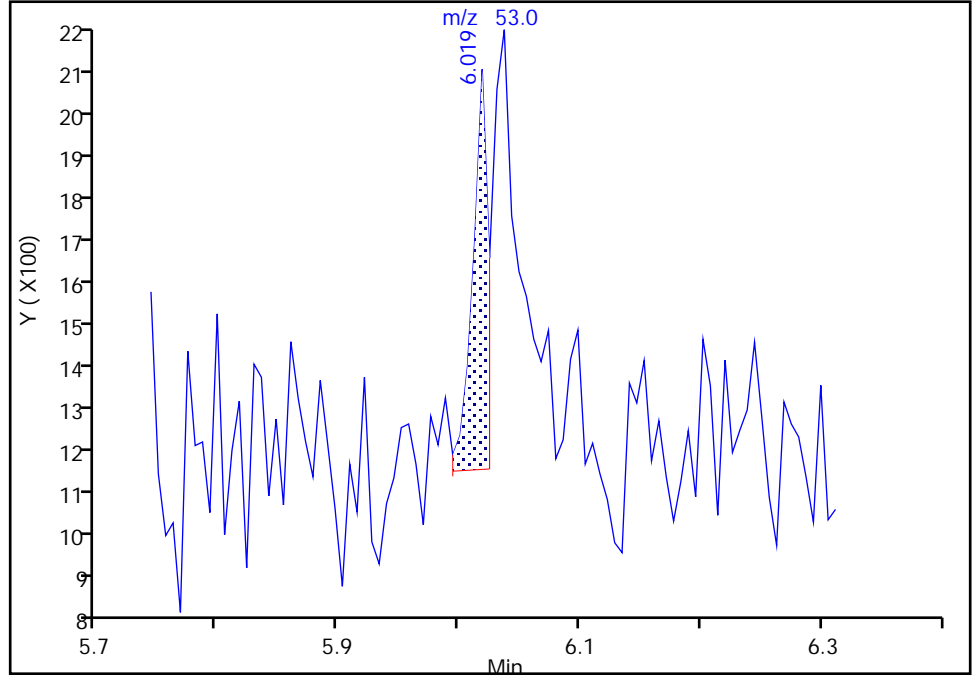
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

32 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

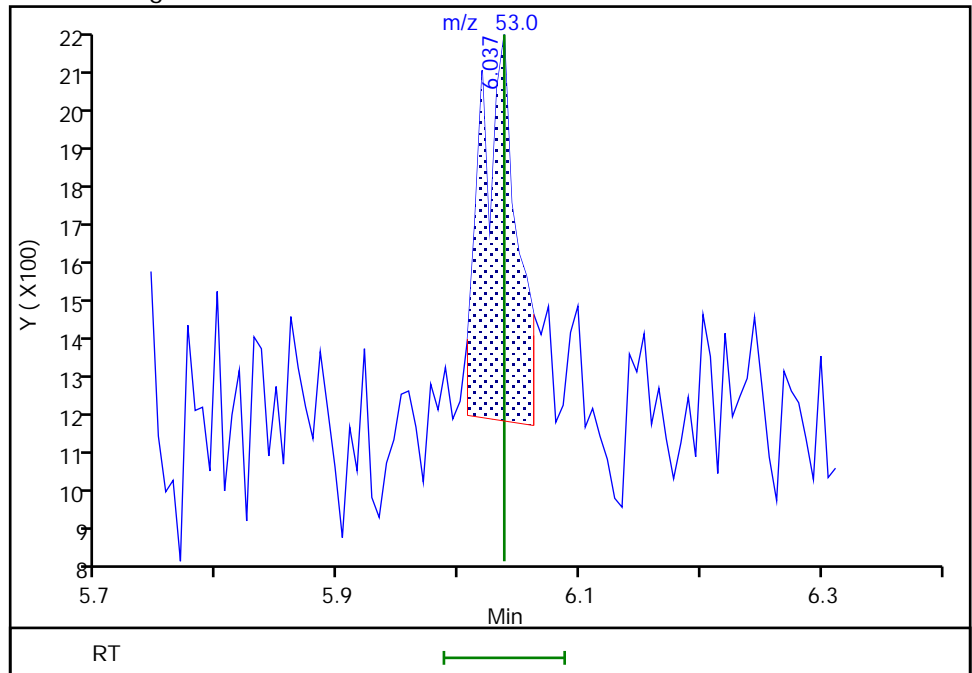
RT: 6.02  
Area: 813  
Amount: 0.422485  
Amount Units: ug/L

Processing Integration Results



RT: 6.04  
Area: 1947  
Amount: 0.374644  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:02:15  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

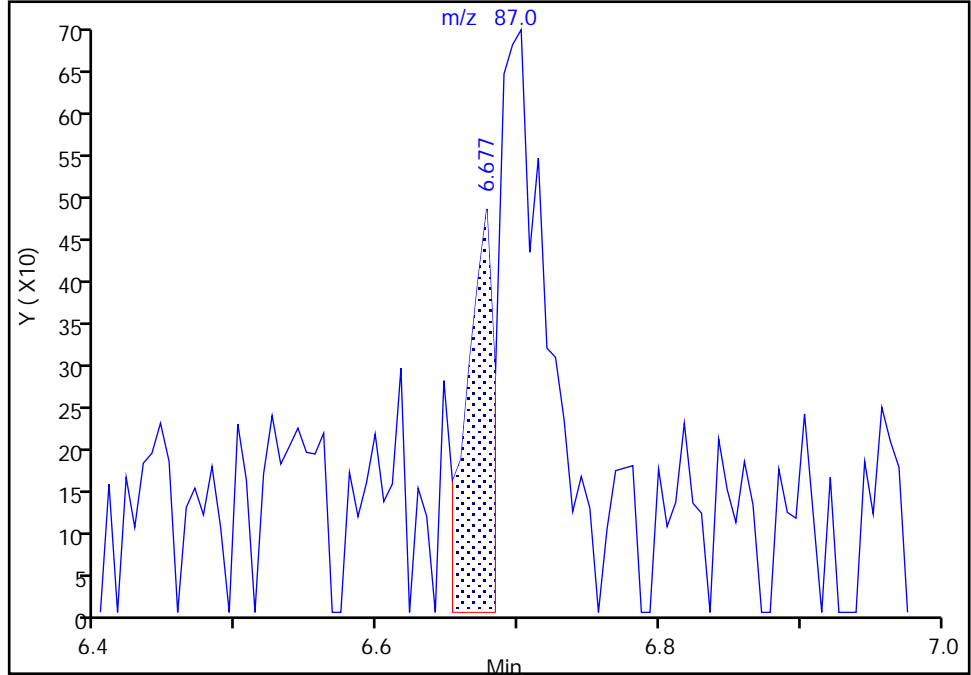
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

41 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

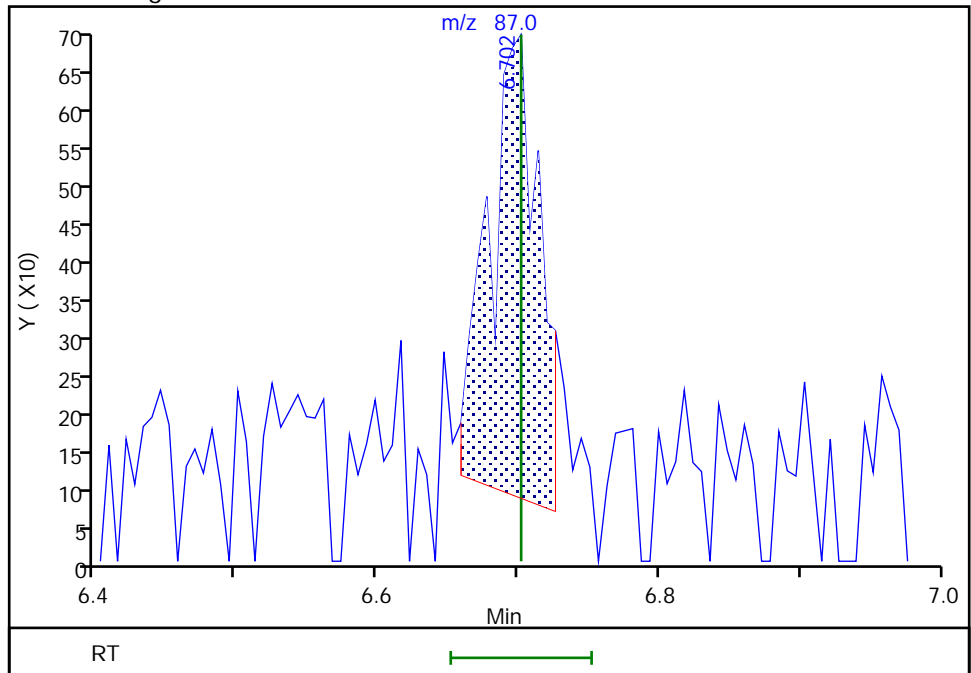
RT: 6.68  
Area: 662  
Amount: 0.421810  
Amount Units: ug/L

Processing Integration Results



RT: 6.70  
Area: 1536  
Amount: 0.651365  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

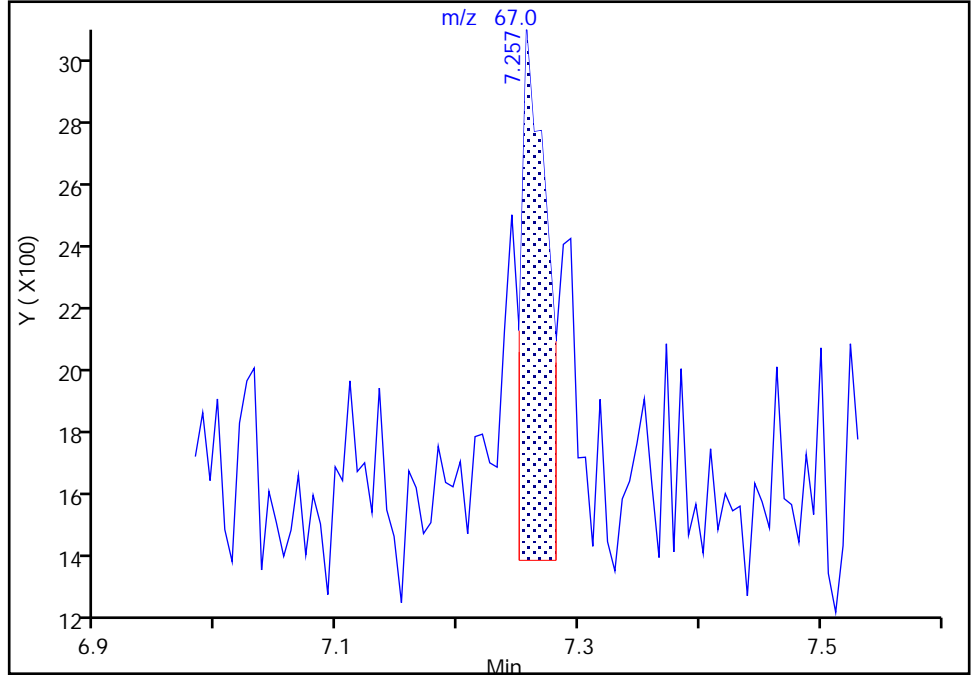
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

36 Methacrylonitrile, CAS: 126-98-7

Signal: 1

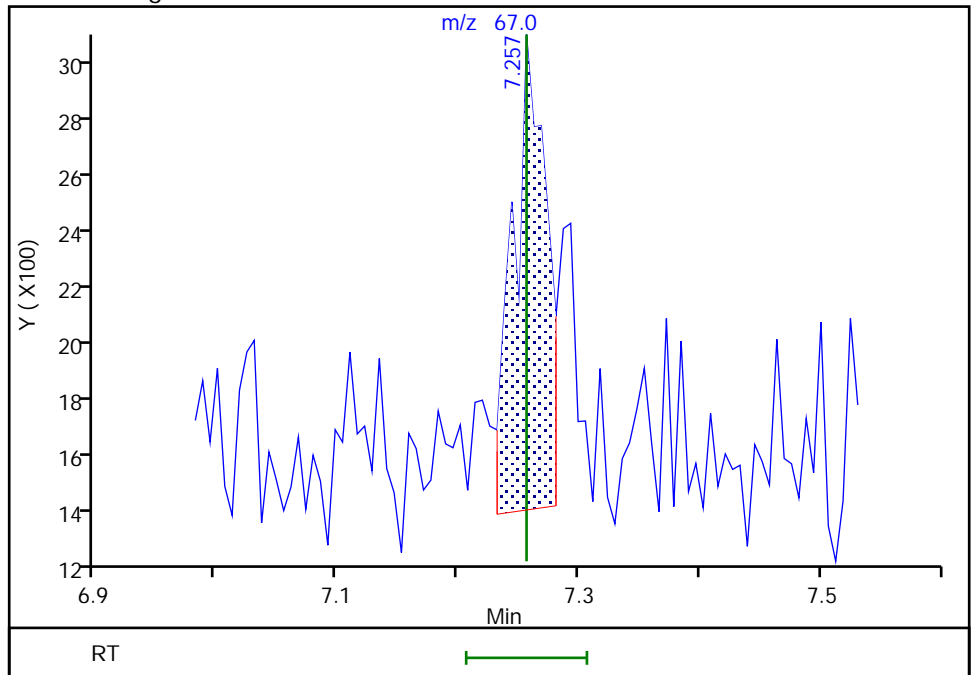
RT: 7.26  
Area: 2537  
Amount: 3.396303  
Amount Units: ug/L

Processing Integration Results



RT: 7.26  
Area: 3273  
Amount: 4.349375  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:02:48  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

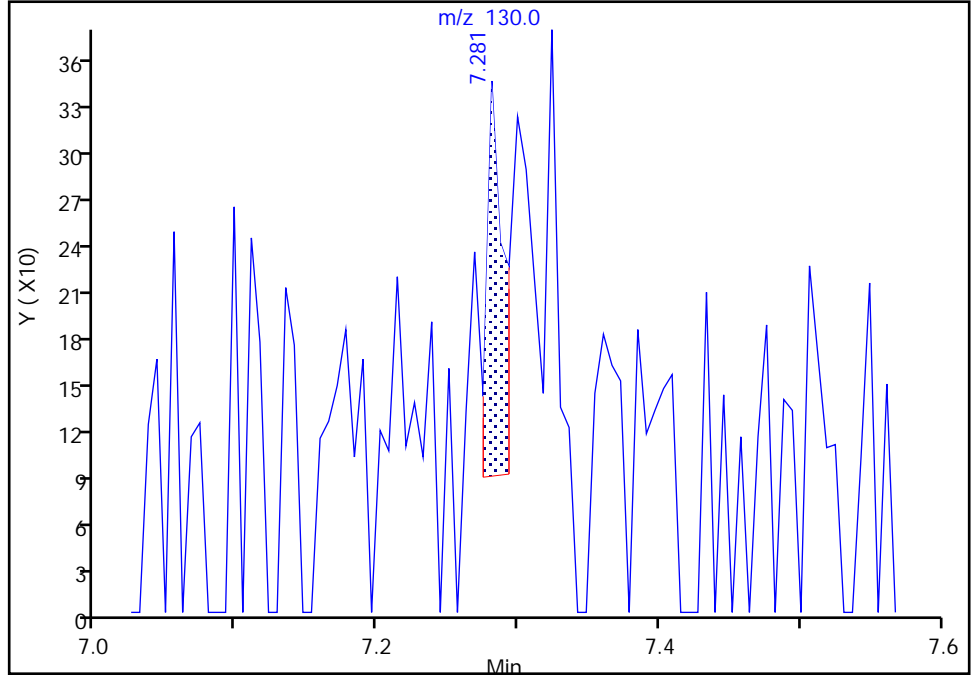
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

**39 Chlorobromomethane, CAS: 74-97-5**

Signal: 1

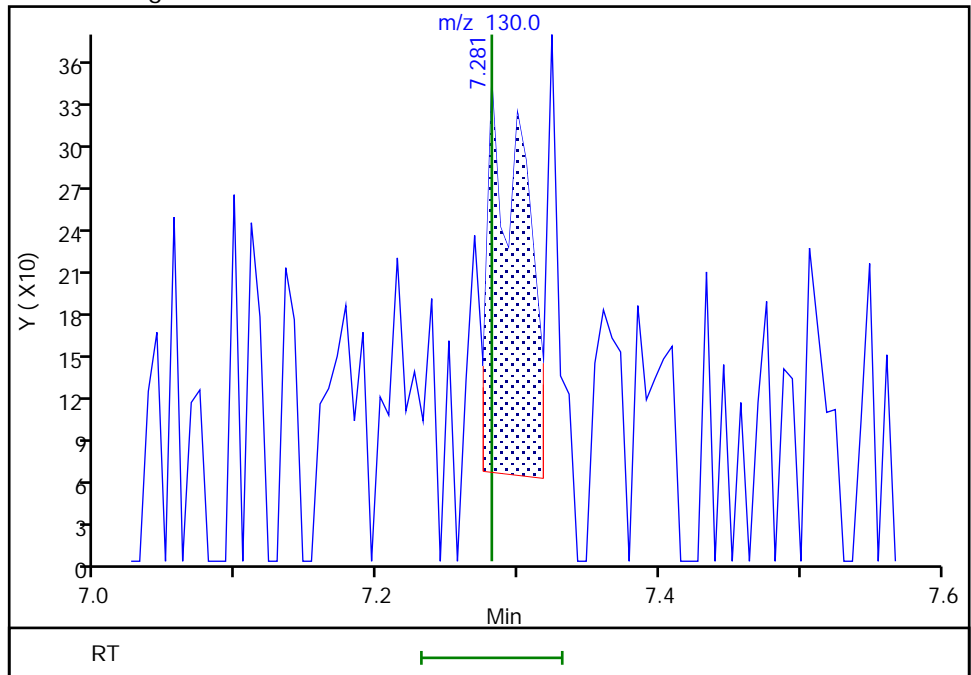
RT: 7.28  
Area: 215  
Amount: 0.176938  
Amount Units: ug/L

Processing Integration Results



RT: 7.28  
Area: 514  
Amount: 0.433359  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

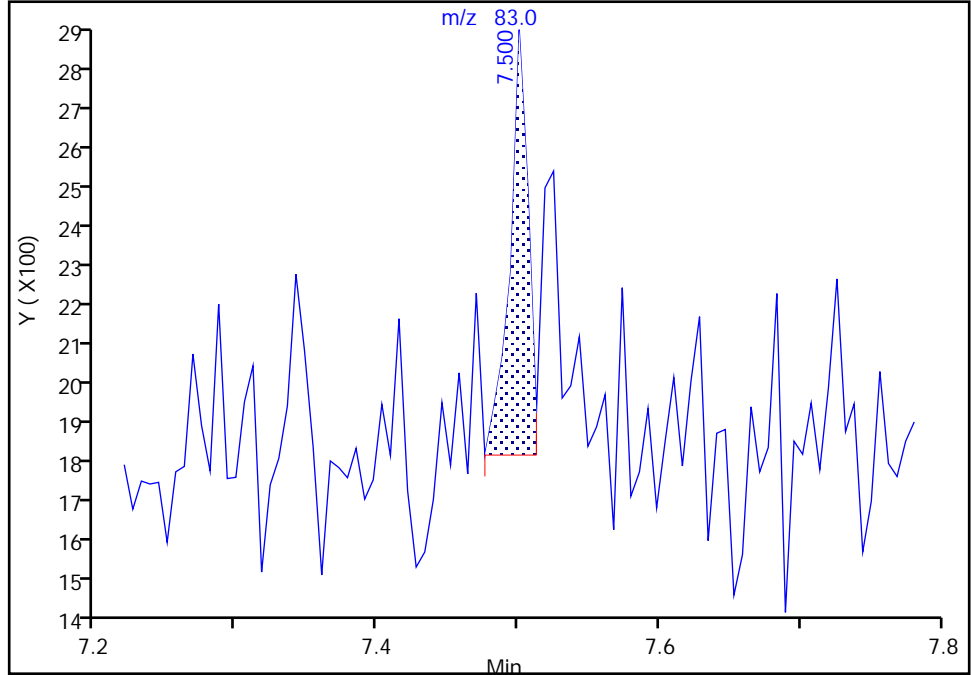
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

40 Chloroform, CAS: 67-66-3

Signal: 1

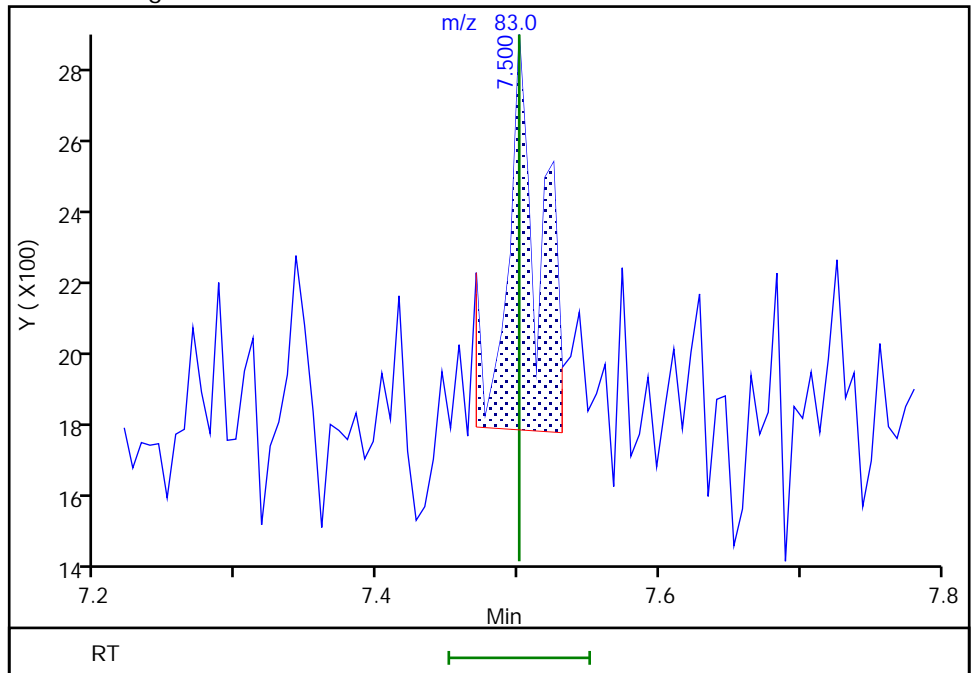
RT: 7.50  
Area: 926  
Amount: 0.265131  
Amount Units: ug/L

Processing Integration Results



RT: 7.50  
Area: 1712  
Amount: 0.479837  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:03:03  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Seattle

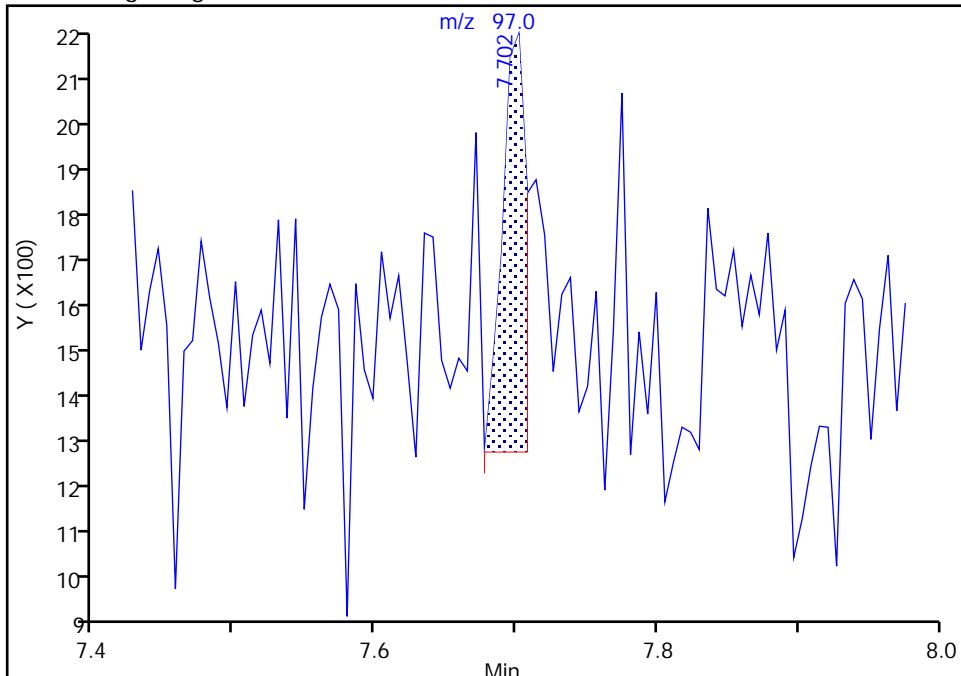
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

48 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

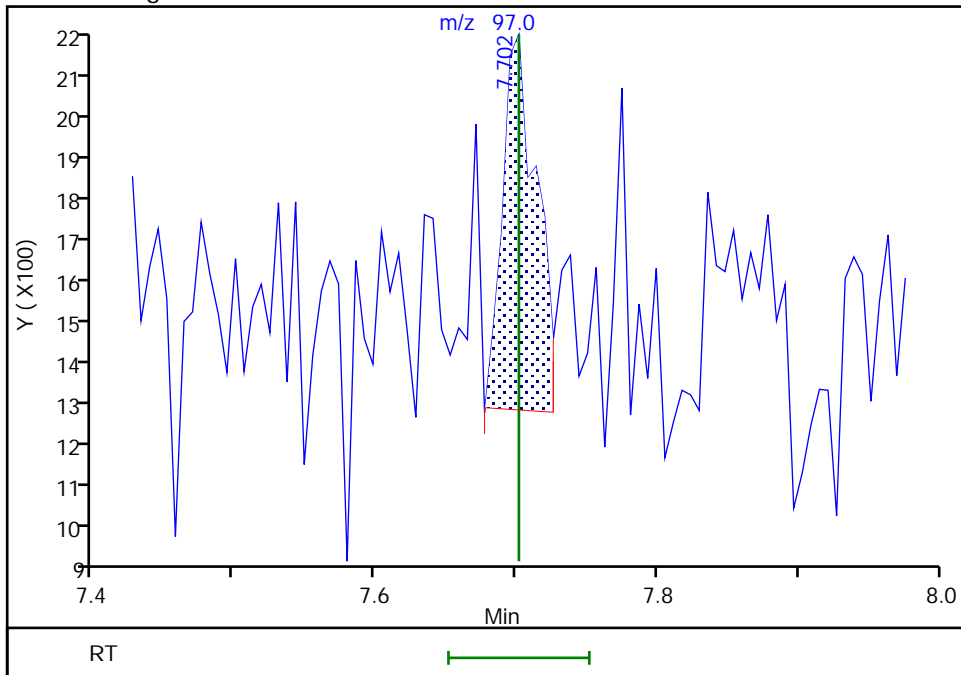
RT: 7.70  
Area: 985  
Amount: 0.318262  
Amount Units: ug/L

Processing Integration Results



RT: 7.70  
Area: 1376  
Amount: 0.458583  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:03:09  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

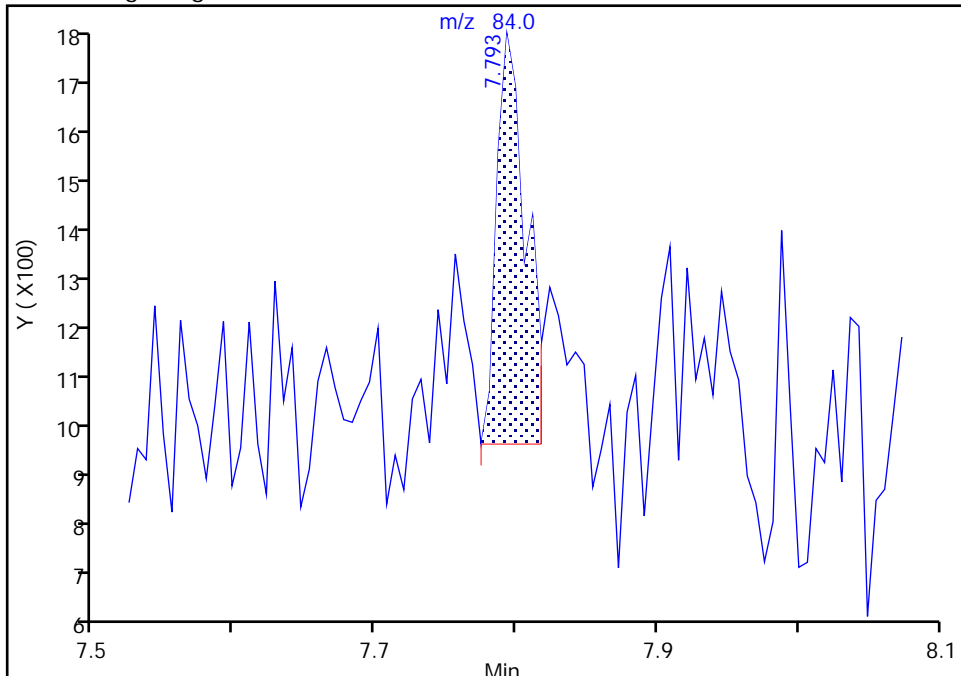
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

51 Cyclohexane, CAS: 110-82-7

Signal: 1

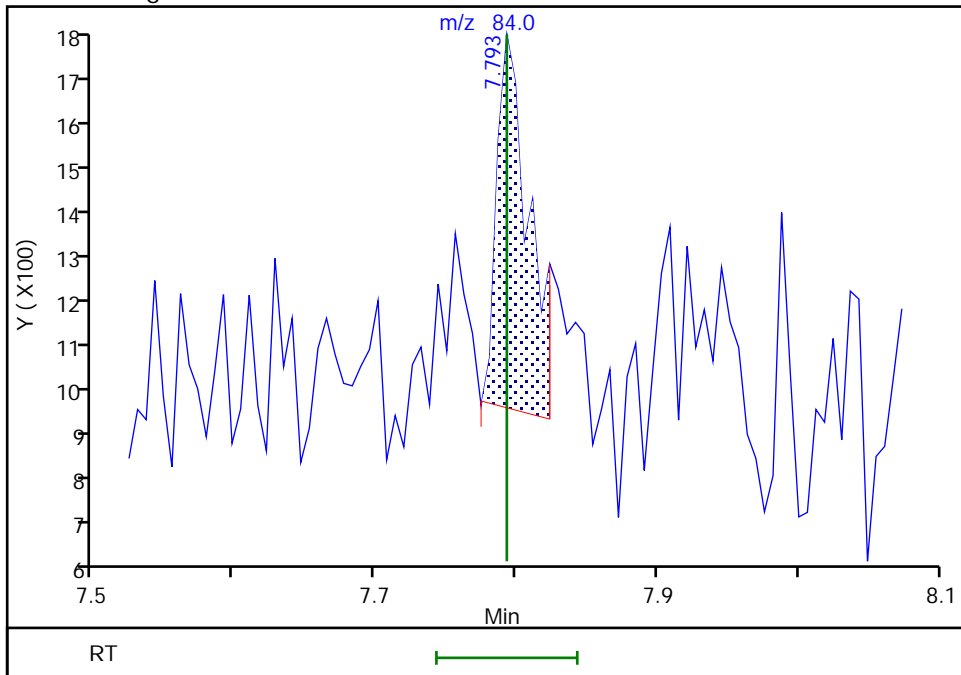
RT: 7.79  
Area: 1063  
Amount: 0.401700  
Amount Units: ug/L

Processing Integration Results



RT: 7.79  
Area: 1195  
Amount: 0.466348  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:03:17  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

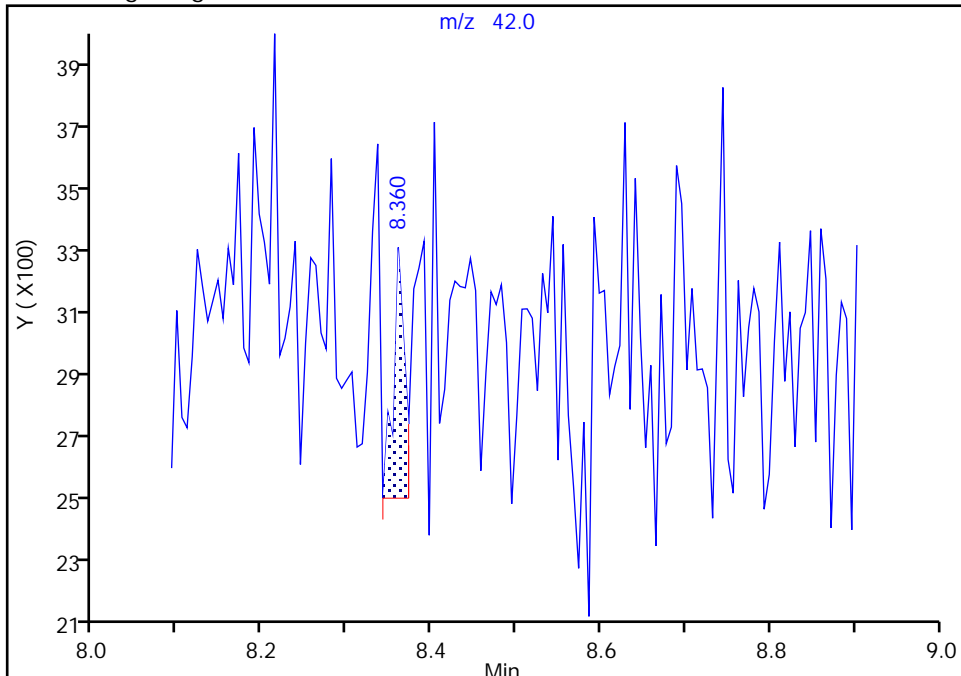
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

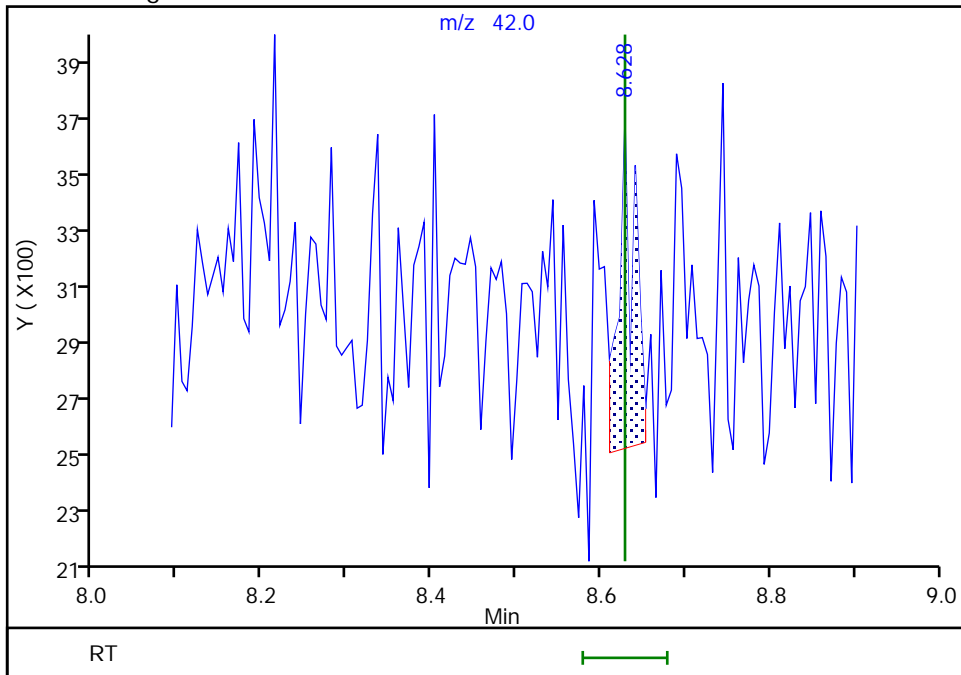
RT: 8.36  
Area: 692  
Amount: 0.933672  
Amount Units: ug/L

Processing Integration Results



RT: 8.63  
Area: 1450  
Amount: 0.847406  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:06:49  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Seattle

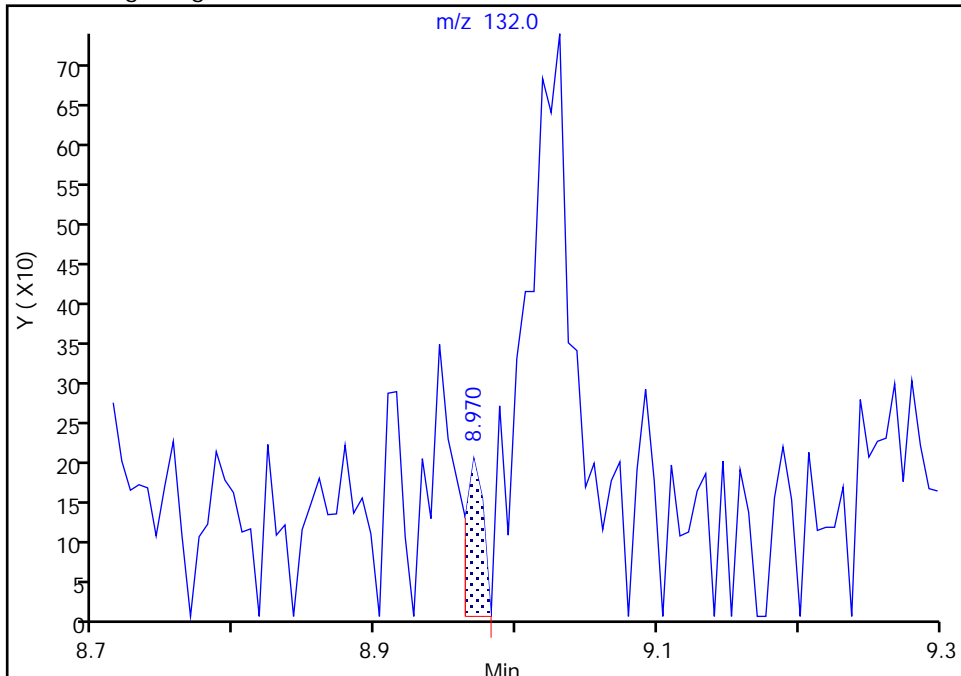
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

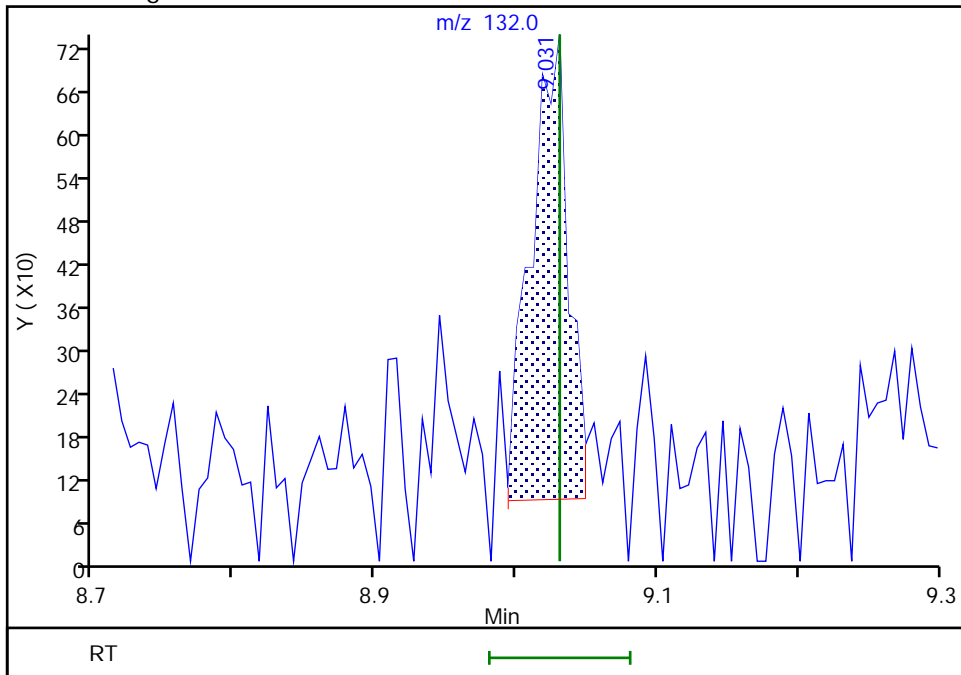
RT: 8.97  
Area: 174  
Amount: 0.095537  
Amount Units: ug/L

Processing Integration Results



RT: 9.03  
Area: 1206  
Amount: 0.588118  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:03:33  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Seattle

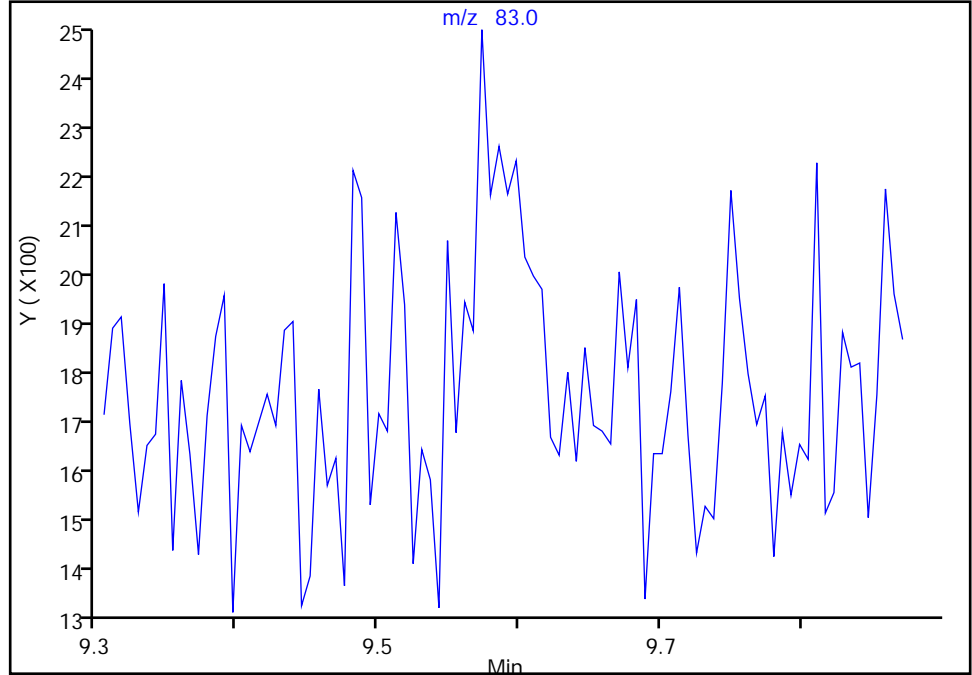
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

62 Dichlorobromomethane, CAS: 75-27-4

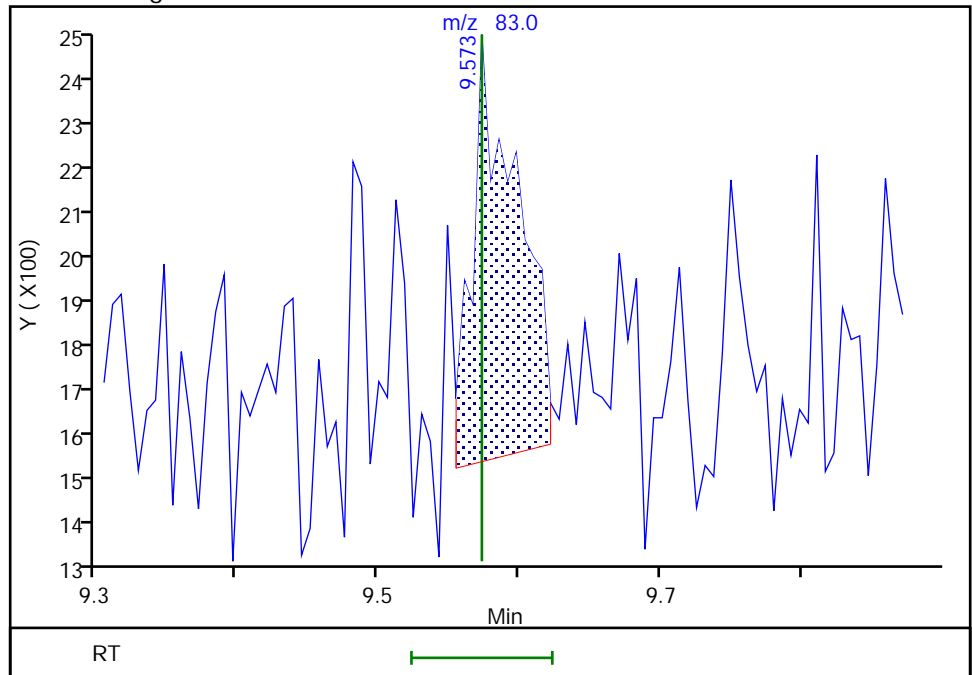
Signal: 1

Not Detected  
Expected RT: 9.57

Processing Integration Results



Manual Integration Results



RT: 9.57  
Area: 2074  
Amount: 0.741614  
Amount Units: ug/L

Eurofins TestAmerica, Seattle

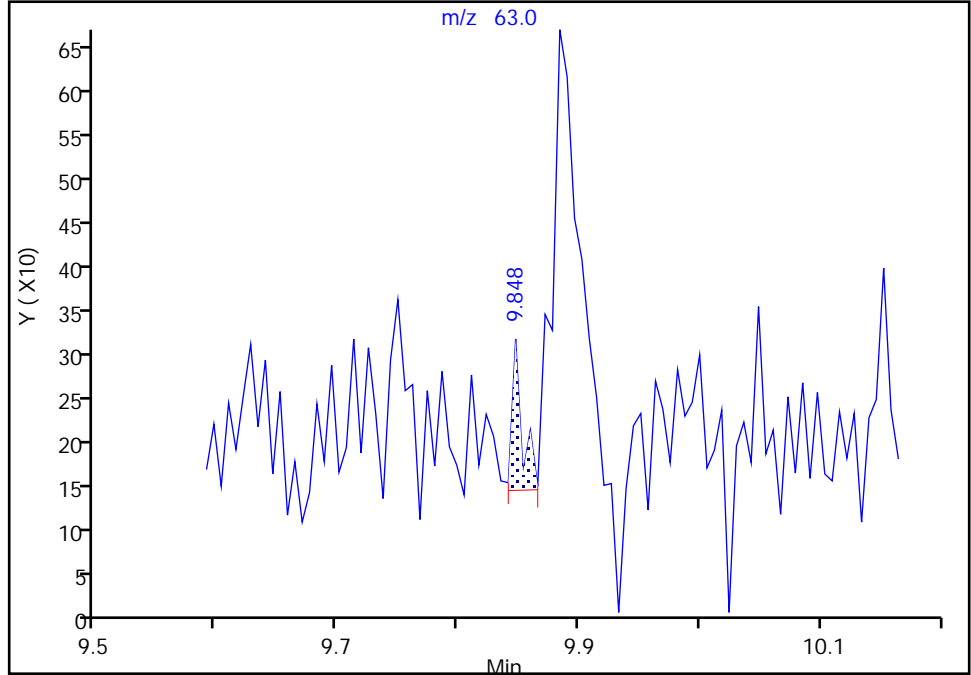
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

65 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

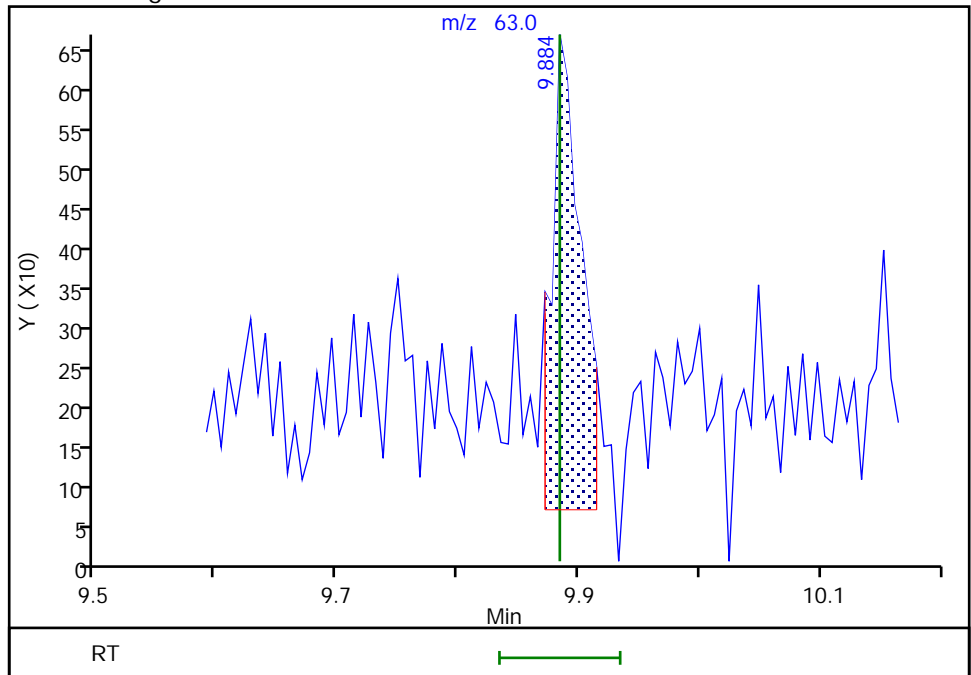
RT: 9.85  
Area: 100  
Amount: 0.091138  
Amount Units: ug/L

Processing Integration Results



RT: 9.88  
Area: 1035  
Amount: 0.546319  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:04:02  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

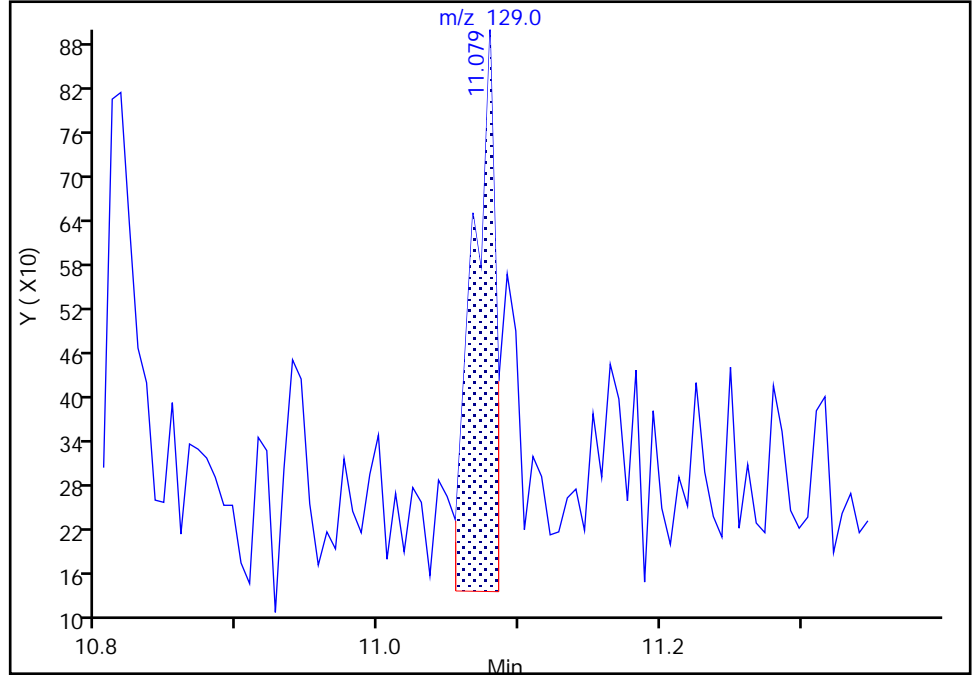
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

77 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

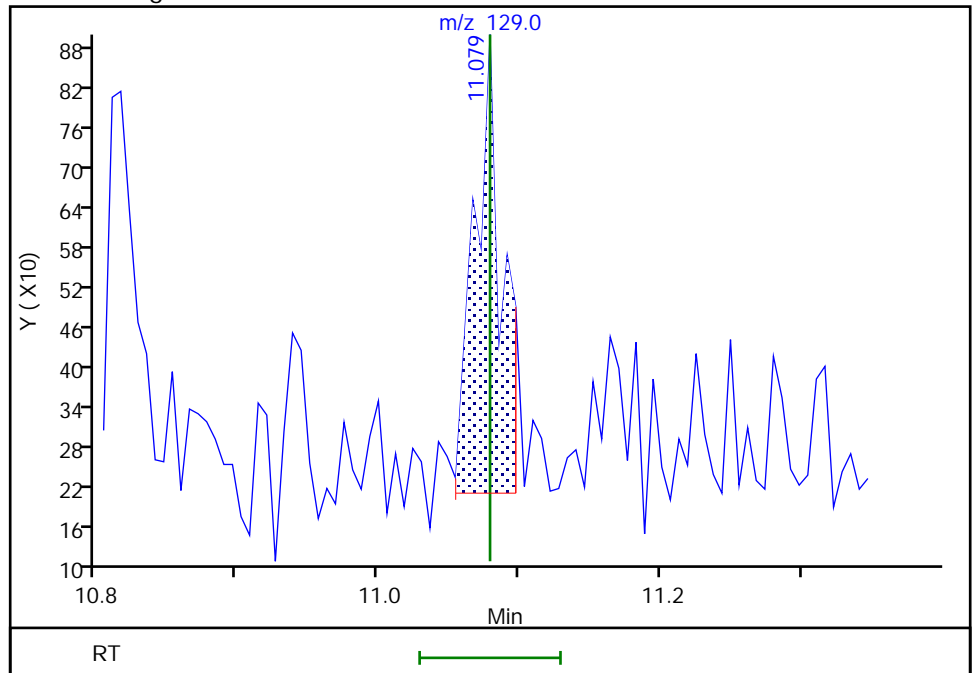
RT: 11.08  
Area: 873  
Amount: 0.434865  
Amount Units: ug/L

Processing Integration Results



RT: 11.08  
Area: 944  
Amount: 0.466565  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:04:32  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

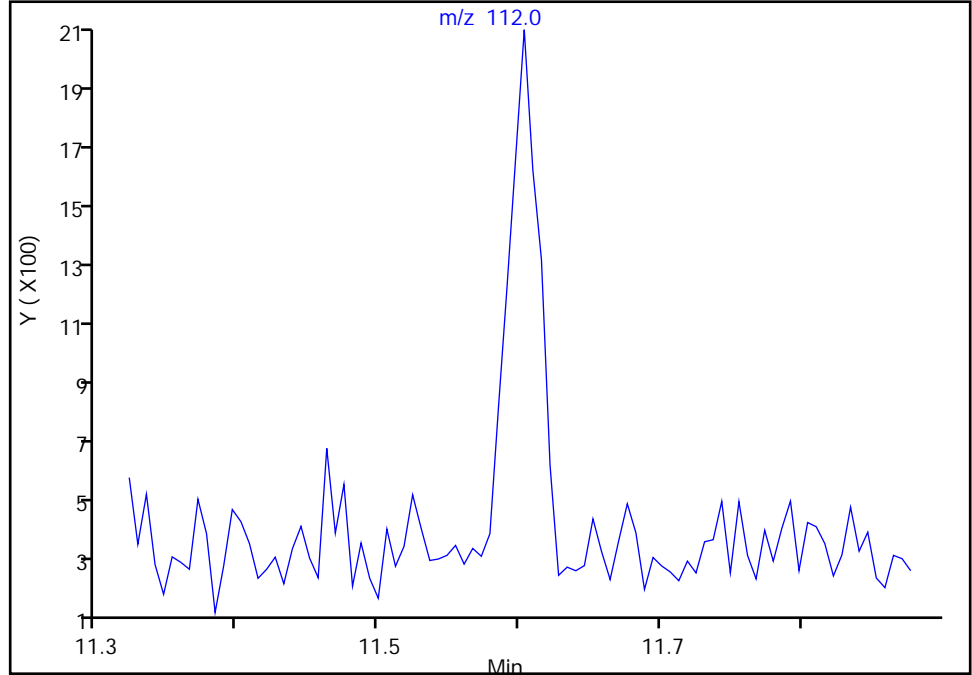
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

82 Chlorobenzene, CAS: 108-90-7

Signal: 1

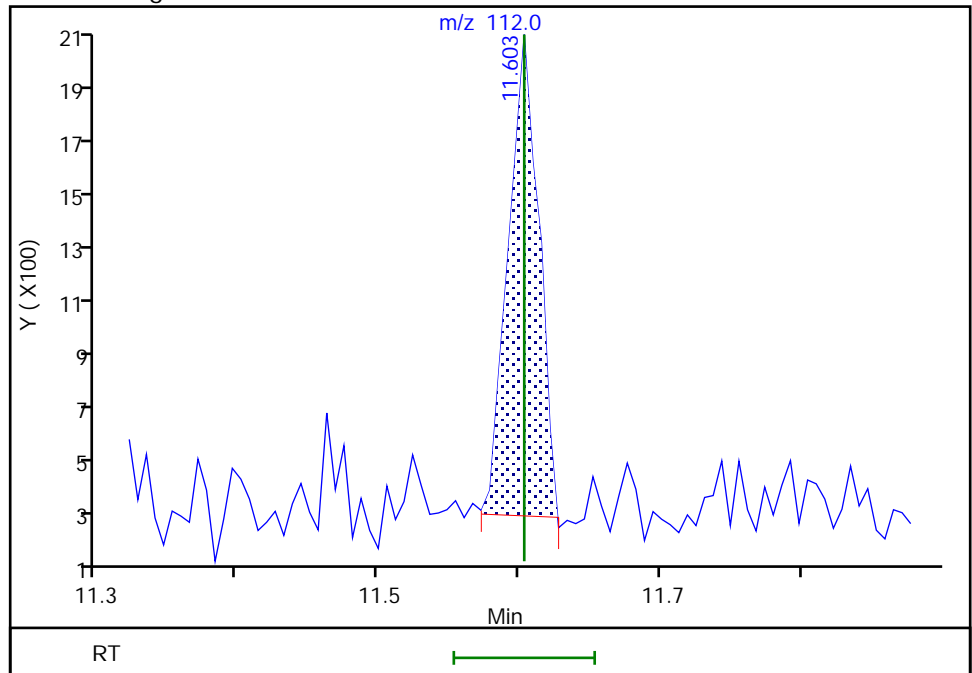
Not Detected  
Expected RT: 11.60

Processing Integration Results



Manual Integration Results

RT: 11.60  
Area: 2645  
Amount: 0.488671  
Amount Units: ug/L



Reviewer: bohnc, 02-Oct-2020 09:04:41  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

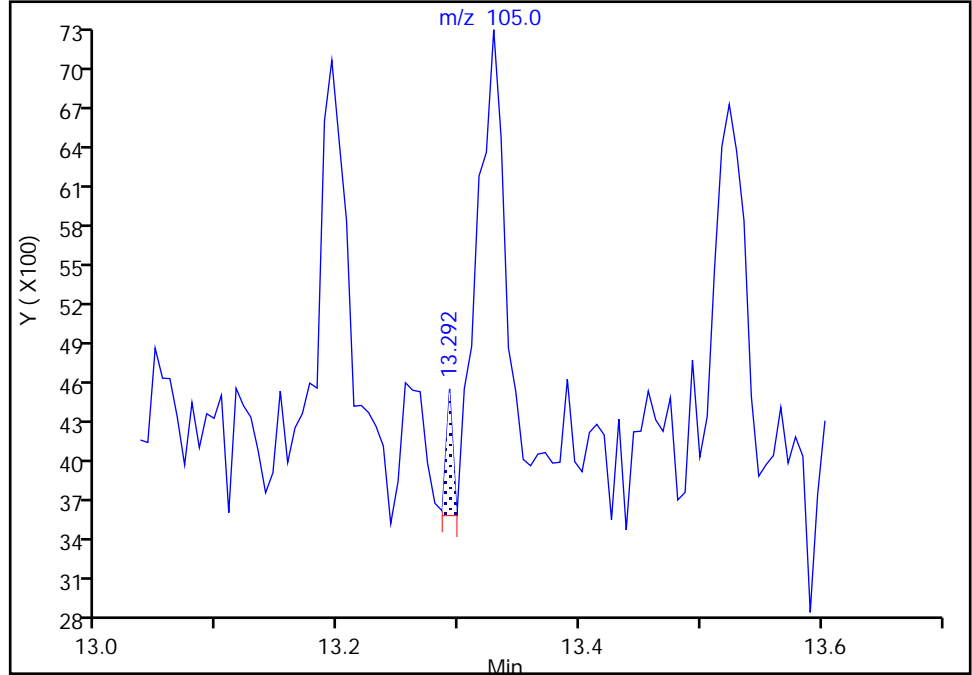
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

100 sec-Butylbenzene, CAS: 135-98-8

Signal: 1

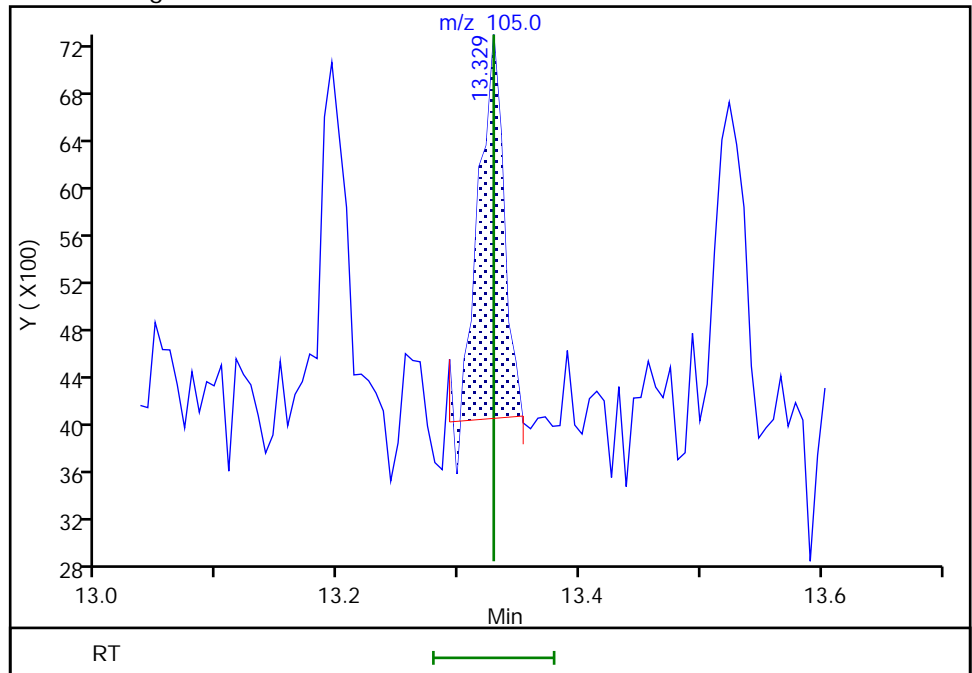
RT: 13.29  
Area: 359  
Amount: 0.045555  
Amount Units: ug/L

Processing Integration Results



RT: 13.33  
Area: 4555  
Amount: 0.515995  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

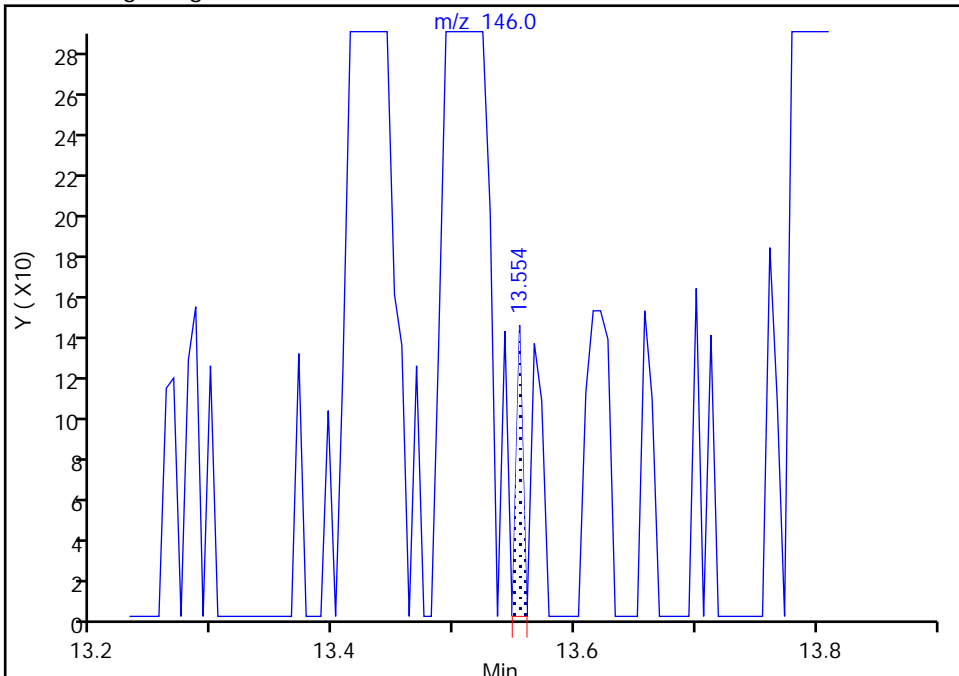
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

104 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

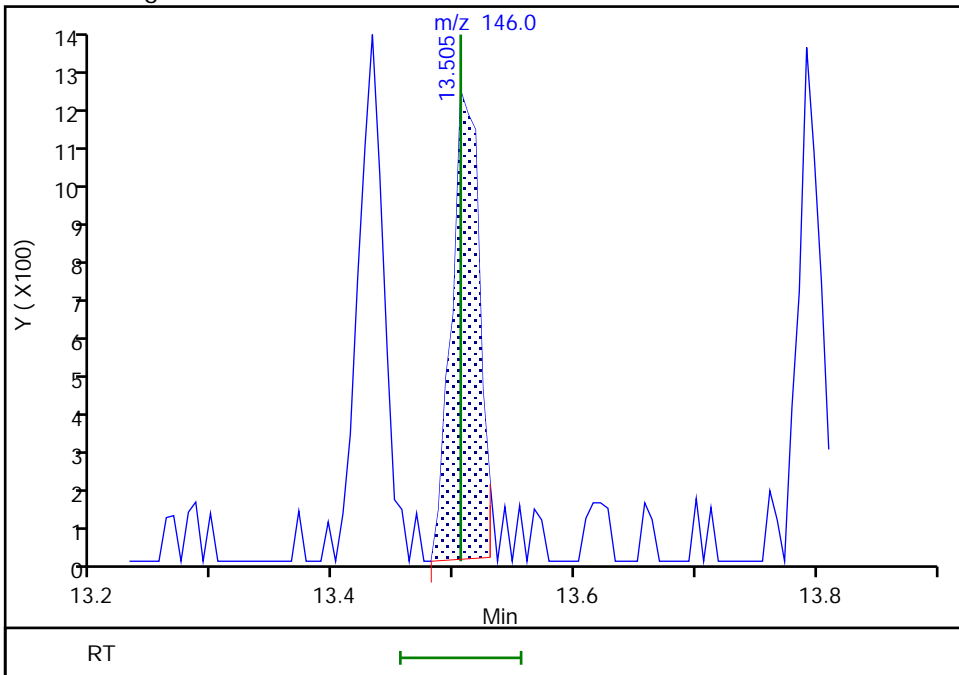
RT: 13.55  
Area: 52  
Amount: 0.017141  
Amount Units: ug/L

Processing Integration Results



RT: 13.51  
Area: 1940  
Amount: 0.559557  
Amount Units: ug/L

Manual Integration Results

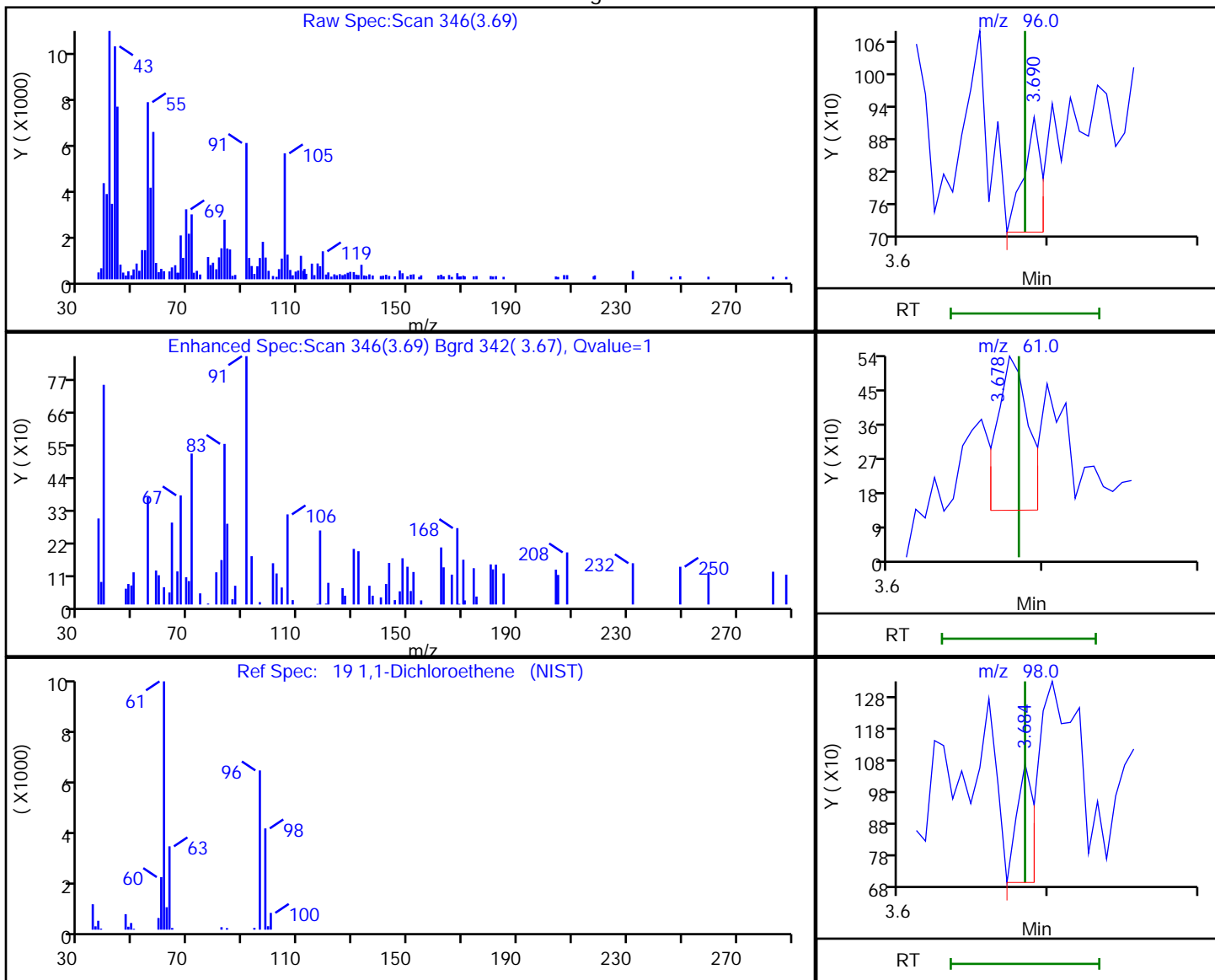


Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



RT	Mass	Response	Amount
3.69	96.00	178	0.186503
3.68	61.00	583	
3.68	98.00	305	

Reviewer: bohnc, 02-Oct-2020 09:00:20

Audit Action: Marked Compound Undetected

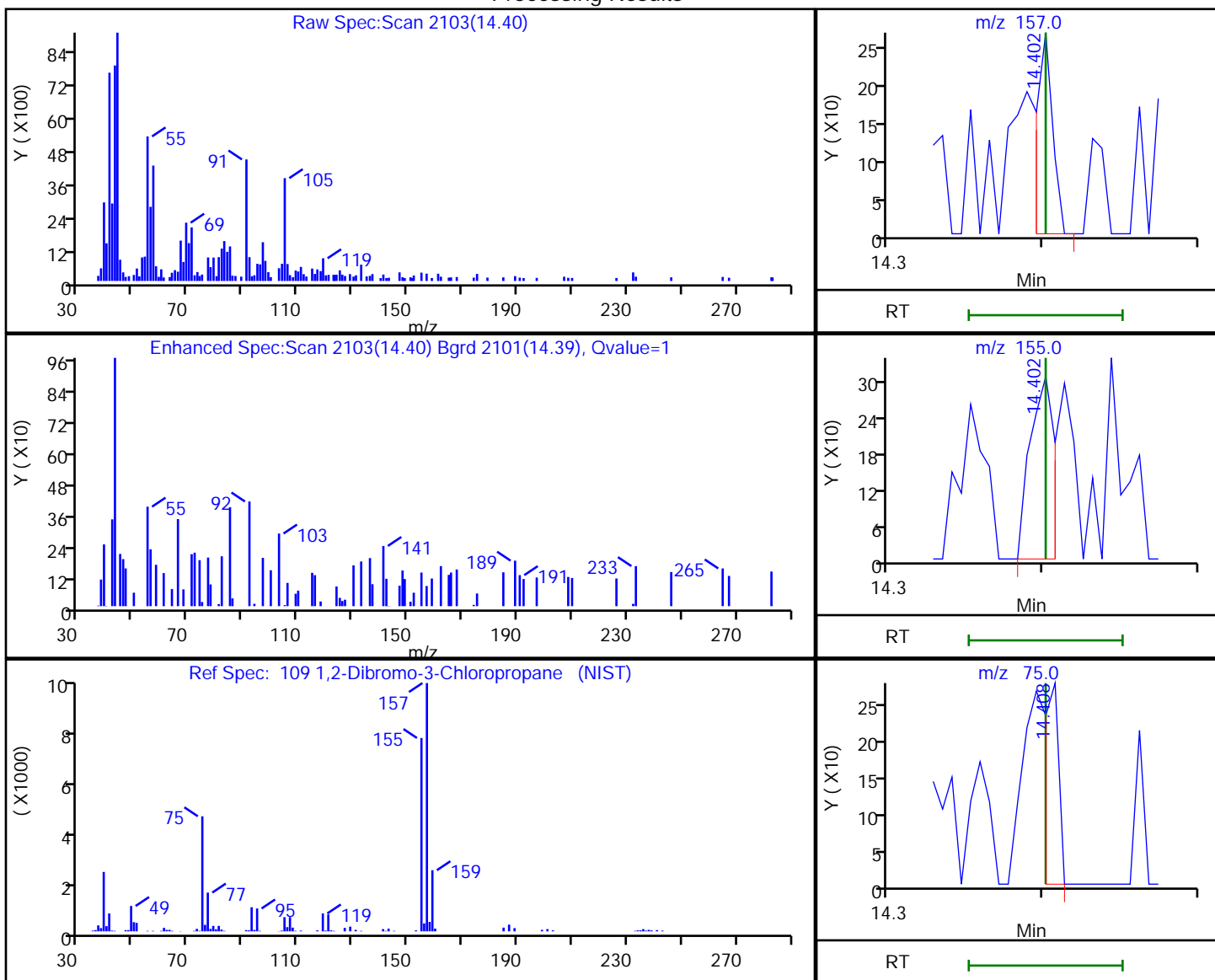
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

109 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Processing Results



RT	Mass	Response	Amount
14.40	157.00	193	0.504074
14.40	155.00	332	
14.41	75.00	185	

Reviewer: bohnc, 02-Oct-2020 09:05:22

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

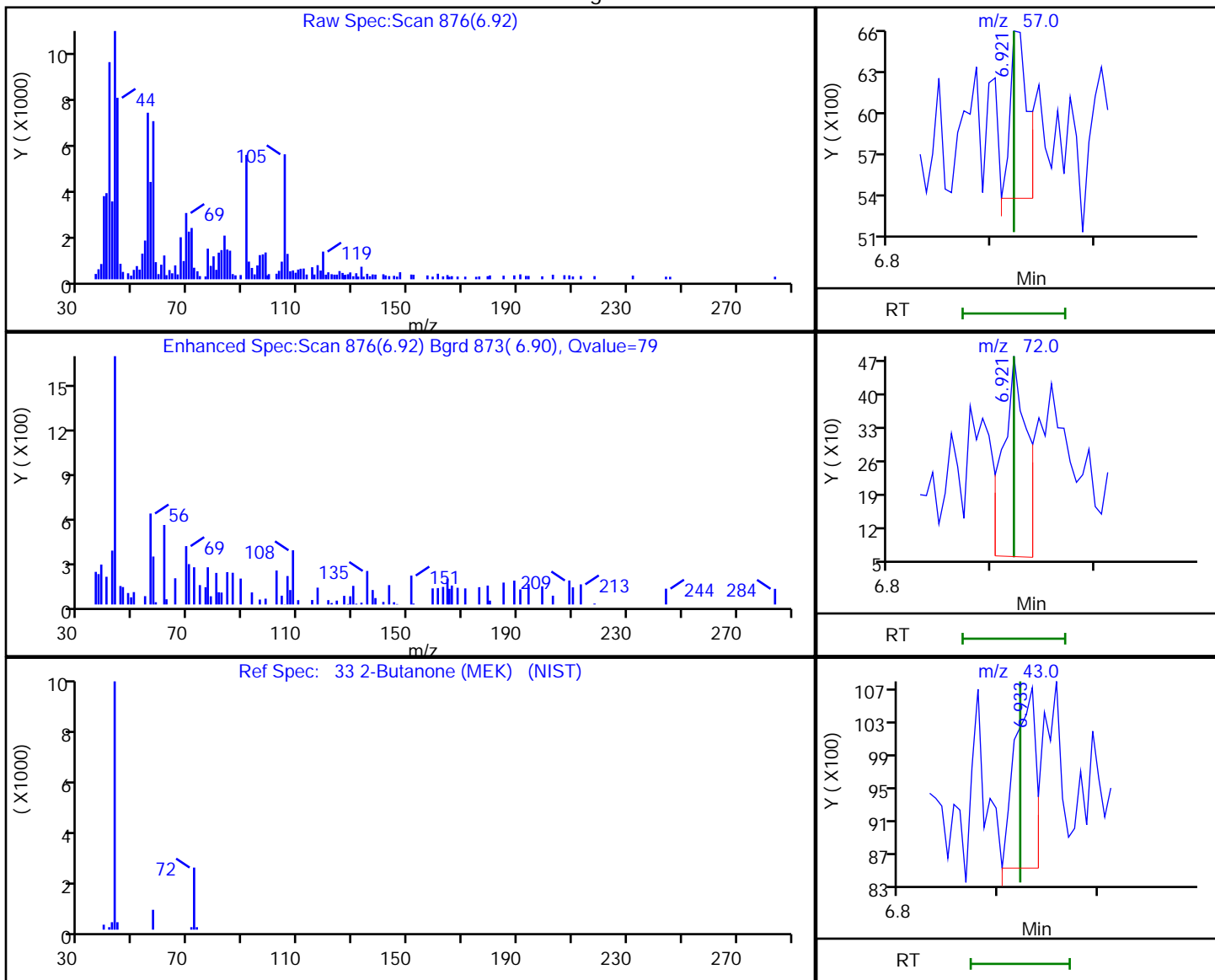


Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

33 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.92	57.00	1376	
6.92	72.00	690	3.397968
6.93	43.00	3166	

Reviewer: bohnc, 02-Oct-2020 09:02:31

Audit Action: Marked Compound Undetected

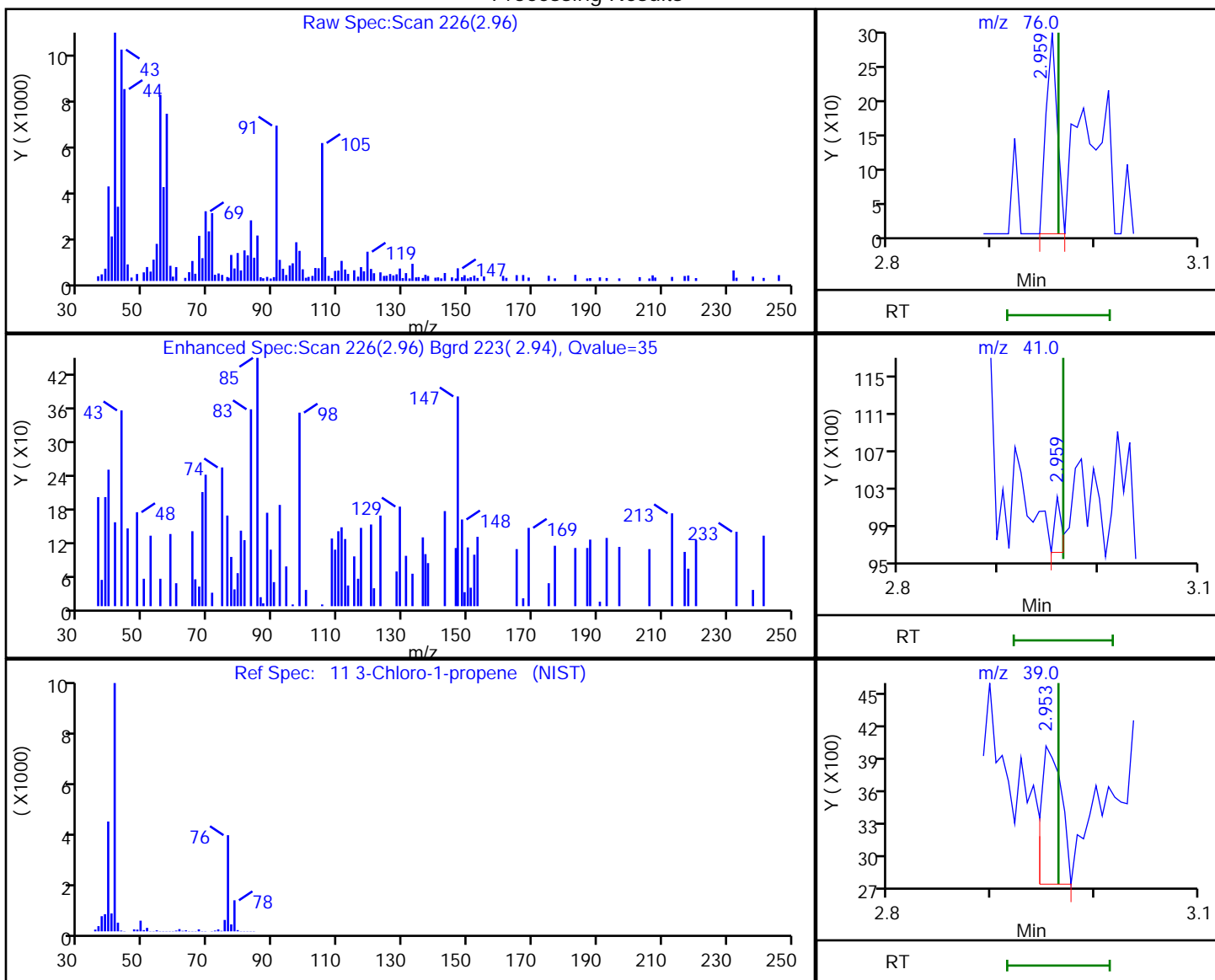
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

11 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
2.96	76.00	219	1.887711
2.96	41.00	275	
2.95	39.00	1686	

Reviewer: bohnc, 02-Oct-2020 09:00:00

Audit Action: Marked Compound Undetected

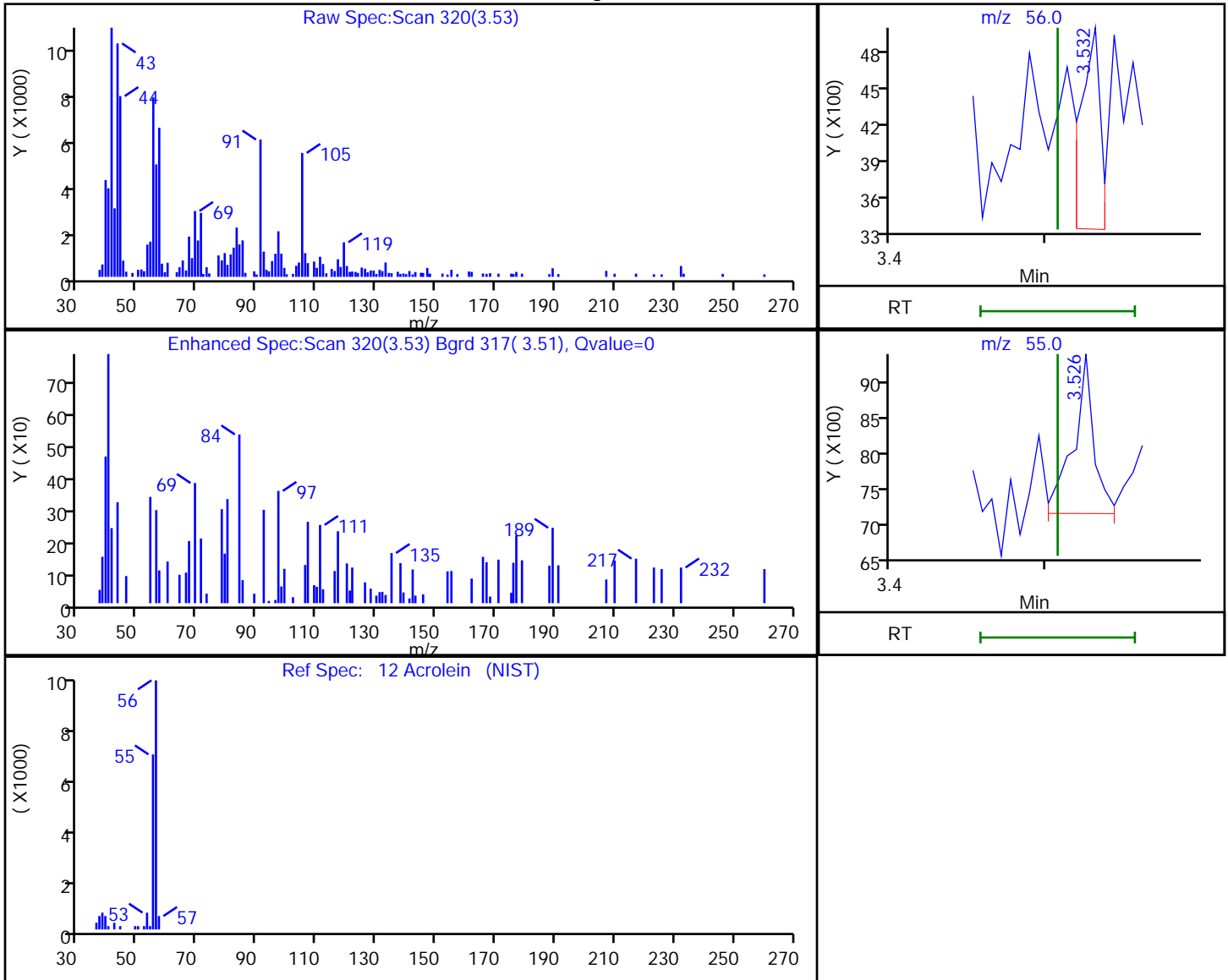
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

12 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
3.53	56.00	1364	2.895954
3.53	55.00	2043	

Reviewer: bohnc, 02-Oct-2020 09:00:15

Audit Action: Marked Compound Undetected

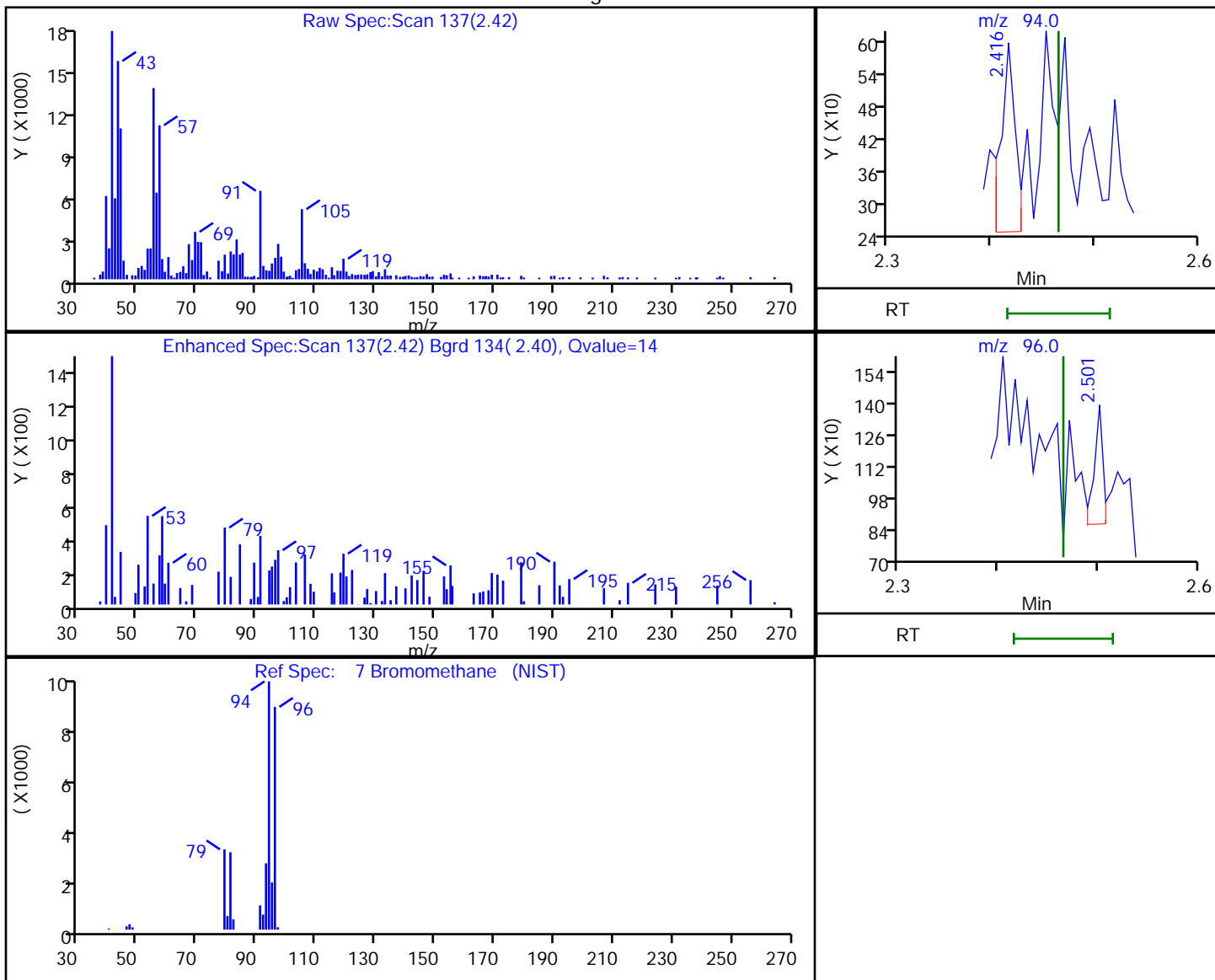
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.42	94.00	343	0.445691
2.50	96.00	333	

Reviewer: bohnc, 02-Oct-2020 08:59:43

Audit Action: Marked Compound Undetected

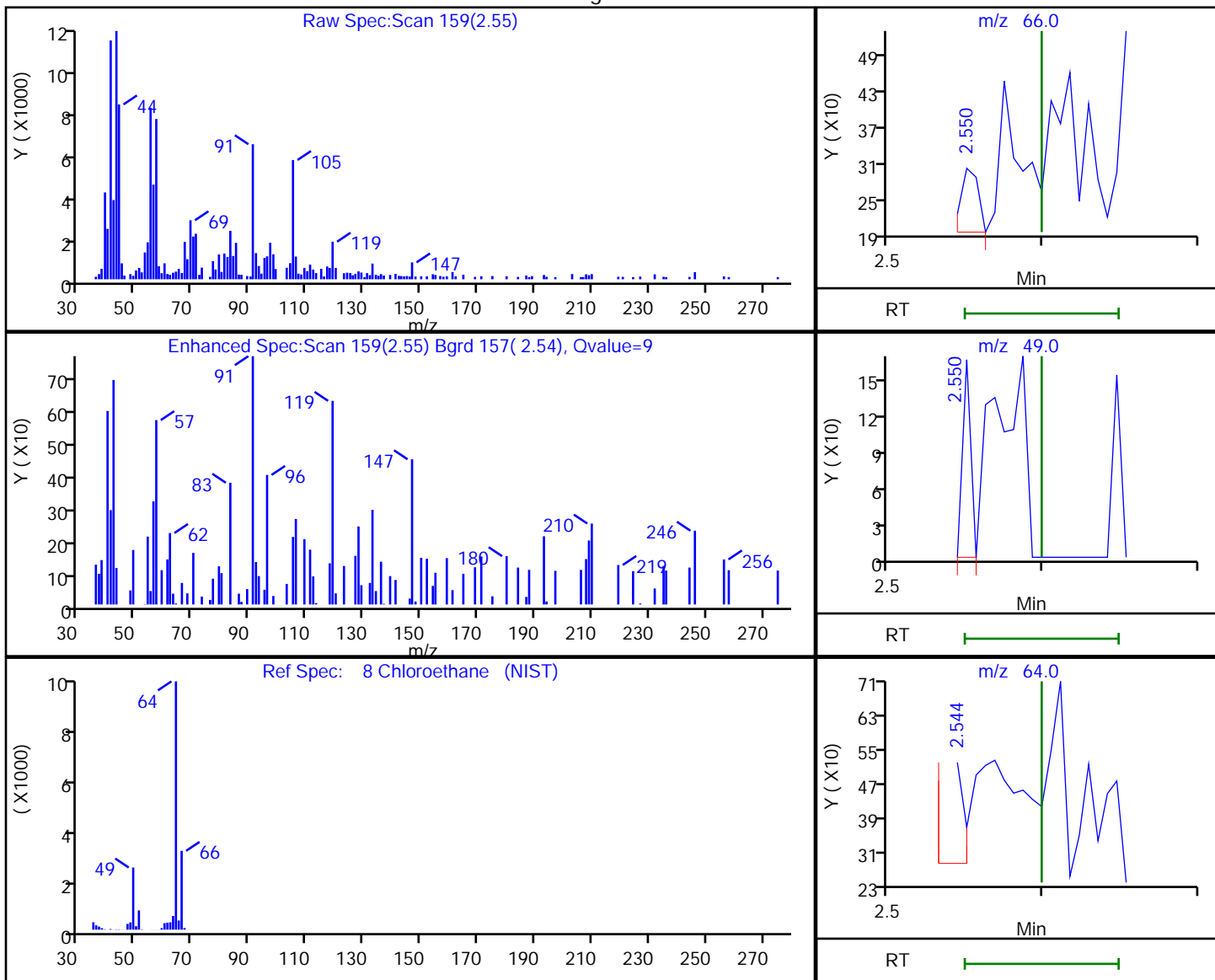
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.55	66.00	83	0.368576
2.55	49.00	61	
2.54	64.00	145	

Reviewer: bohnc, 02-Oct-2020 08:59:46

Audit Action: Marked Compound Undetected

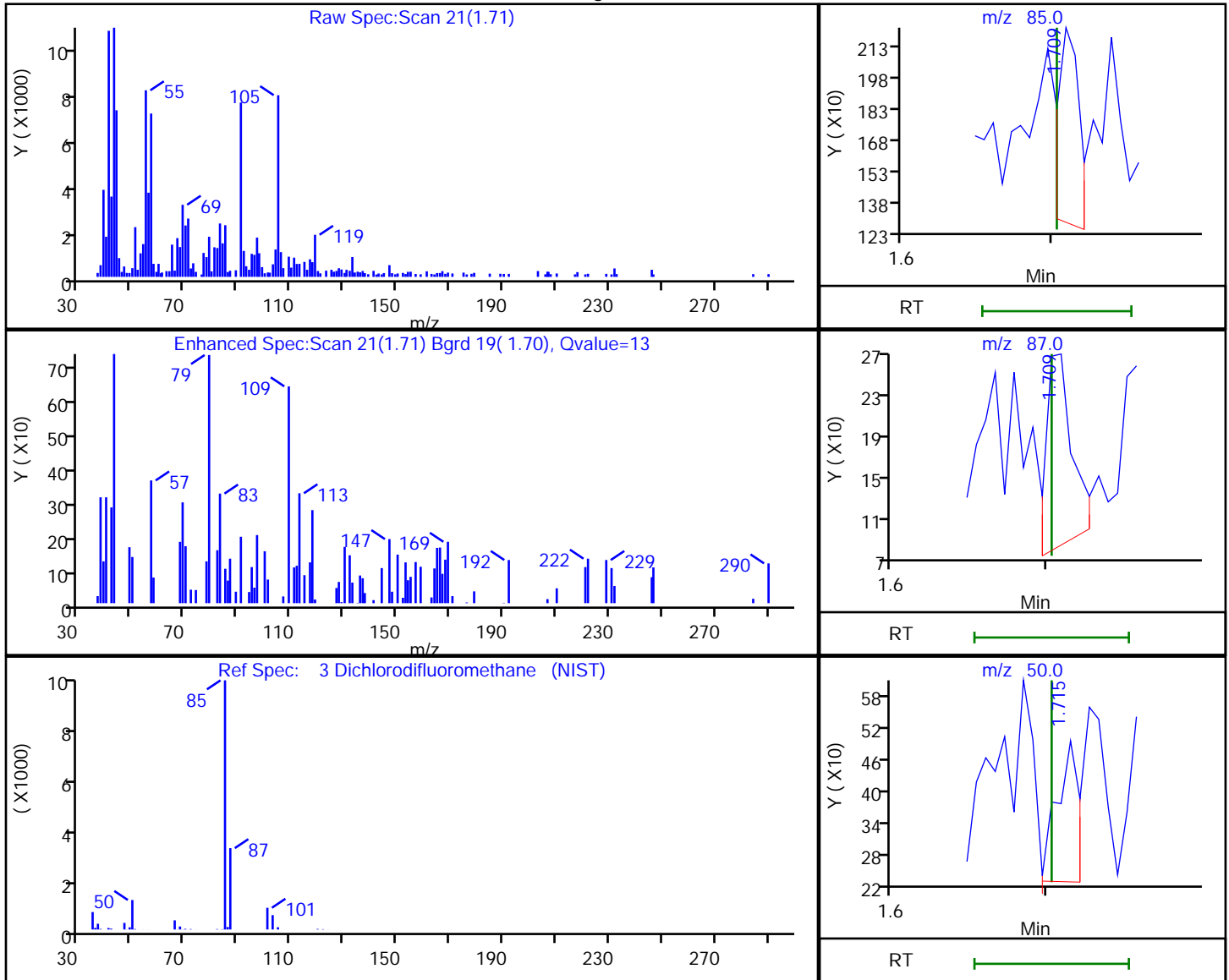
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.71	85.00	967	1.045860
1.71	87.00	211	
1.71	50.00	268	

Reviewer: bohnc, 02-Oct-2020 08:59:06

Audit Action: Marked Compound Undetected

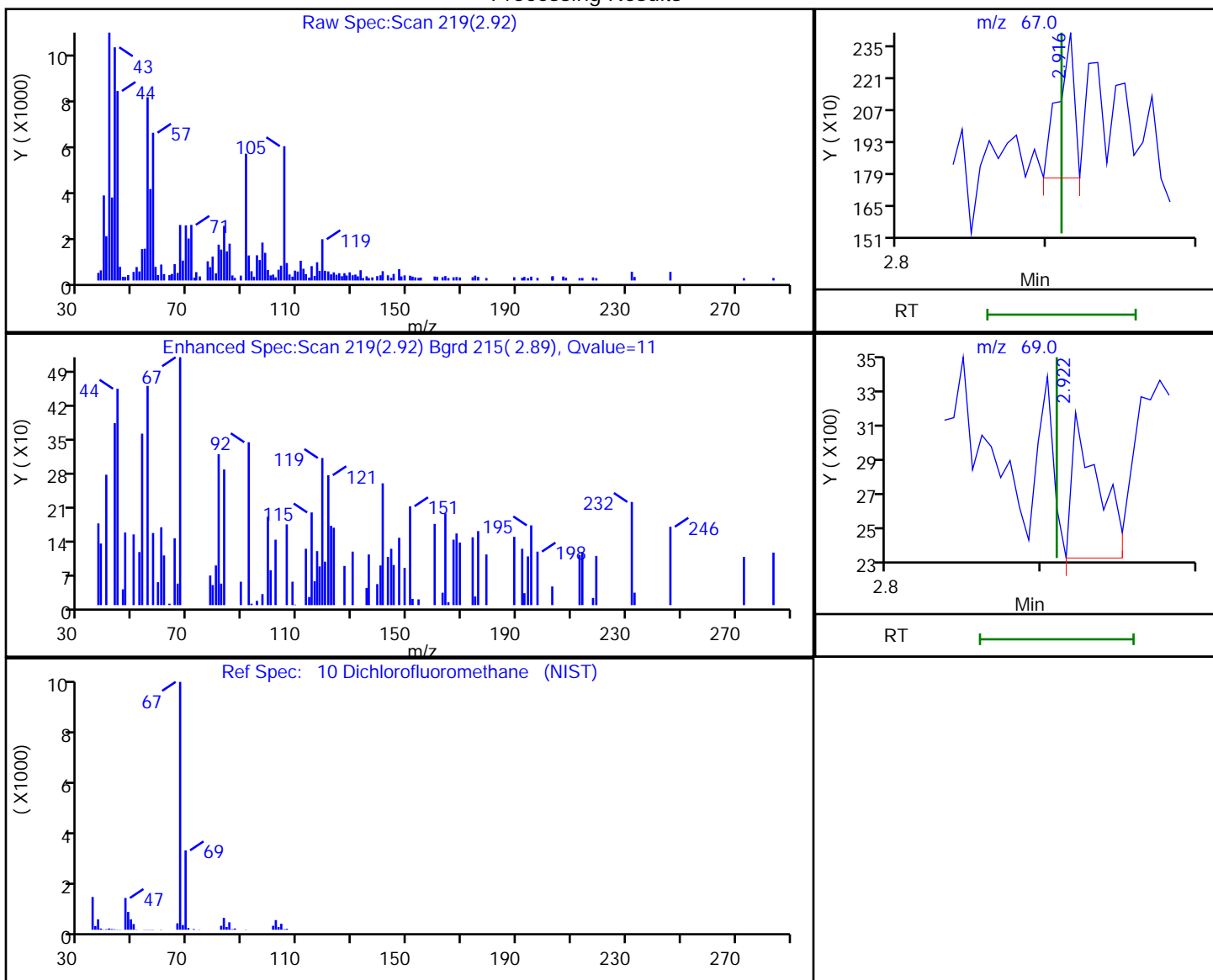
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

10 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
2.92	67.00	484	0.604341
2.92	69.00	908	

Reviewer: bohnc, 02-Oct-2020 08:59:50

Audit Action: Marked Compound Undetected

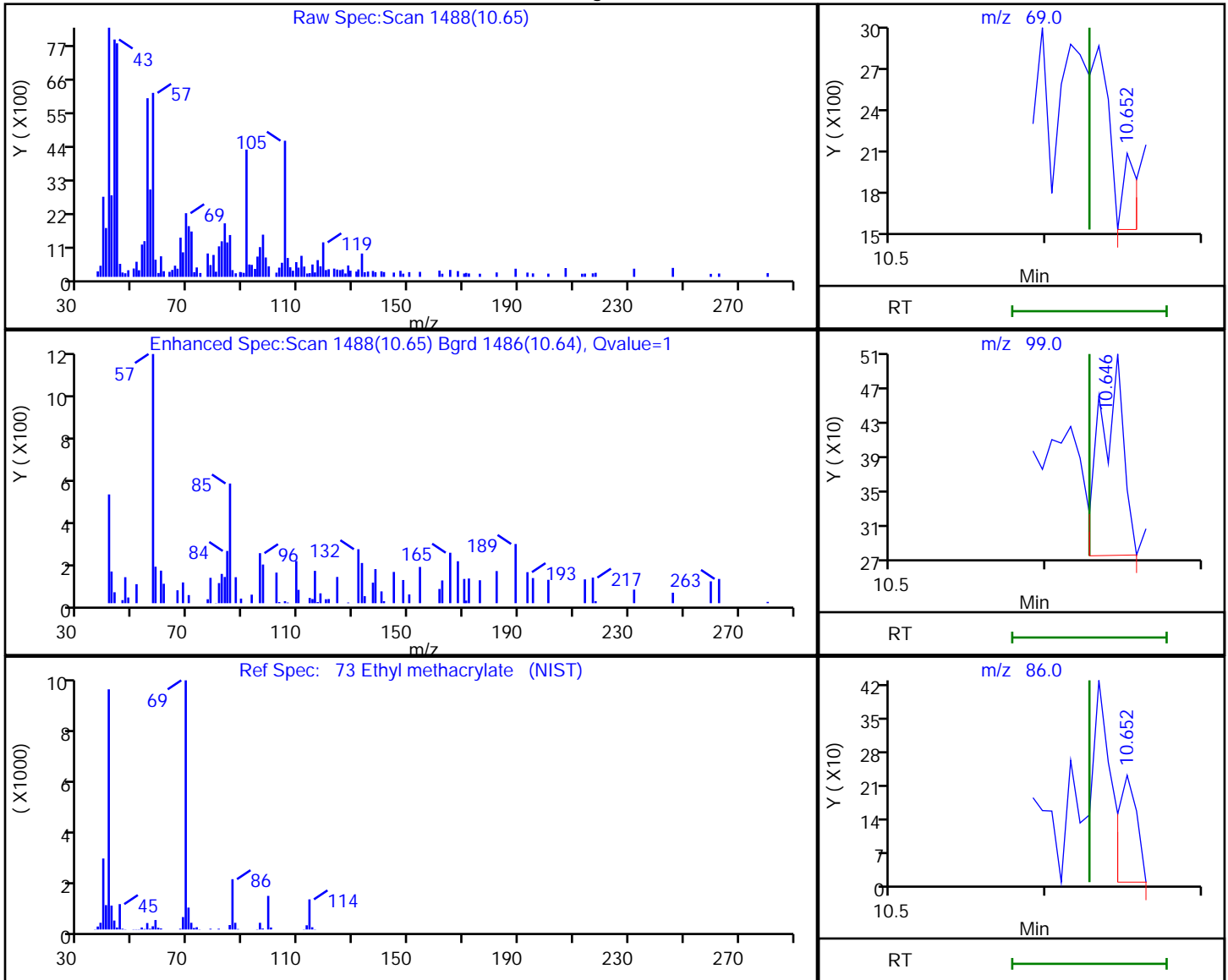
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

73 Ethyl methacrylate, CAS: 97-63-2

Processing Results



RT	Mass	Response	Amount
10.65	69.00	316	0.143888
10.65	99.00	235	
10.65	86.00	189	

Reviewer: bohnc, 02-Oct-2020 09:04:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

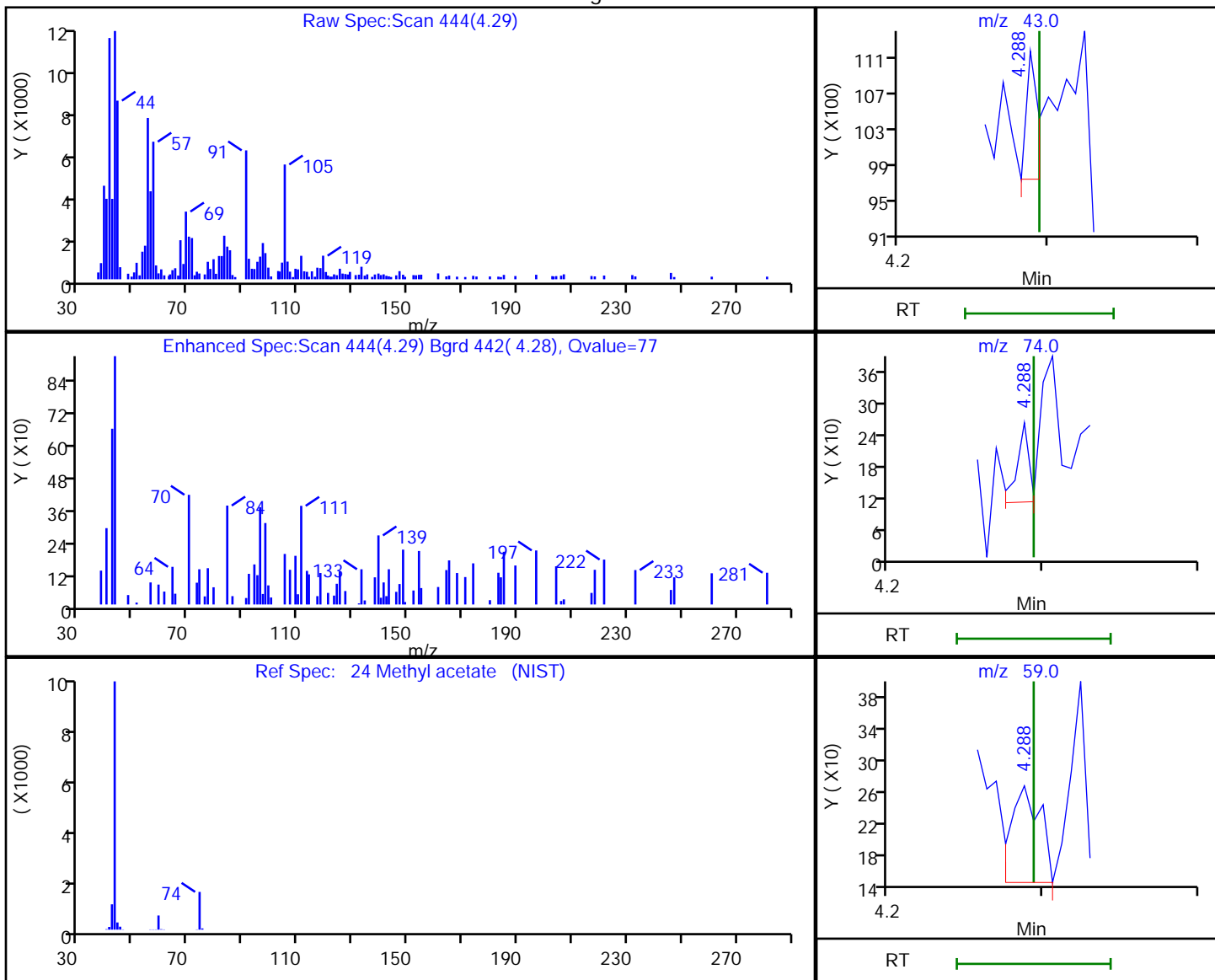


Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Processing Results



RT	Mass	Response	Amount
4.29	43.00	771	0.361161
4.29	74.00	84	
4.29	59.00	162	

Reviewer: bohnc, 02-Oct-2020 09:01:47

Audit Action: Marked Compound Undetected

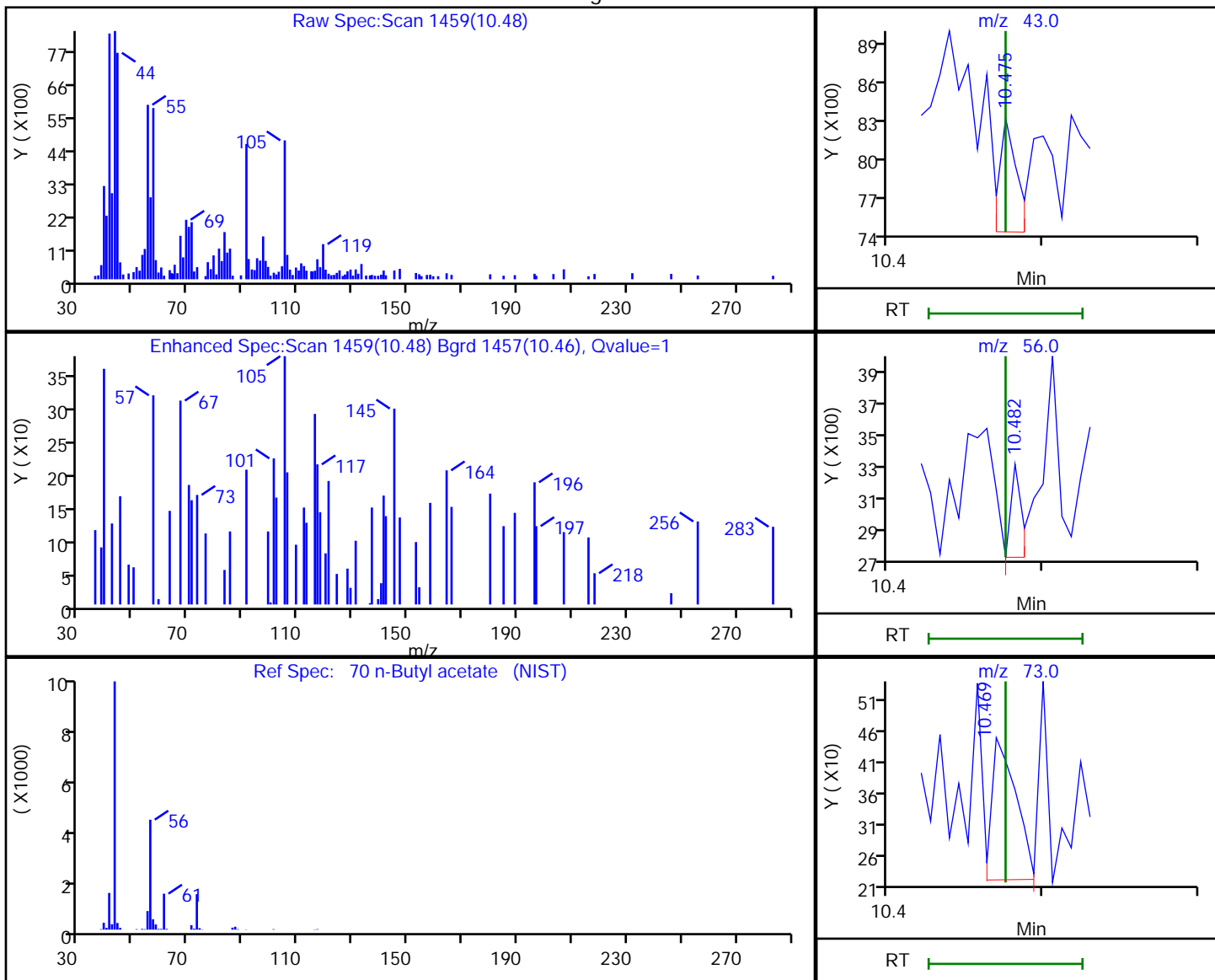
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

70 n-Butyl acetate, CAS: 123-86-4

Processing Results



RT	Mass	Response	Amount
10.48	43.00	700	0.668633
10.48	56.00	272	
10.47	73.00	252	

Reviewer: bohnc, 02-Oct-2020 09:04:13

Audit Action: Marked Compound Undetected

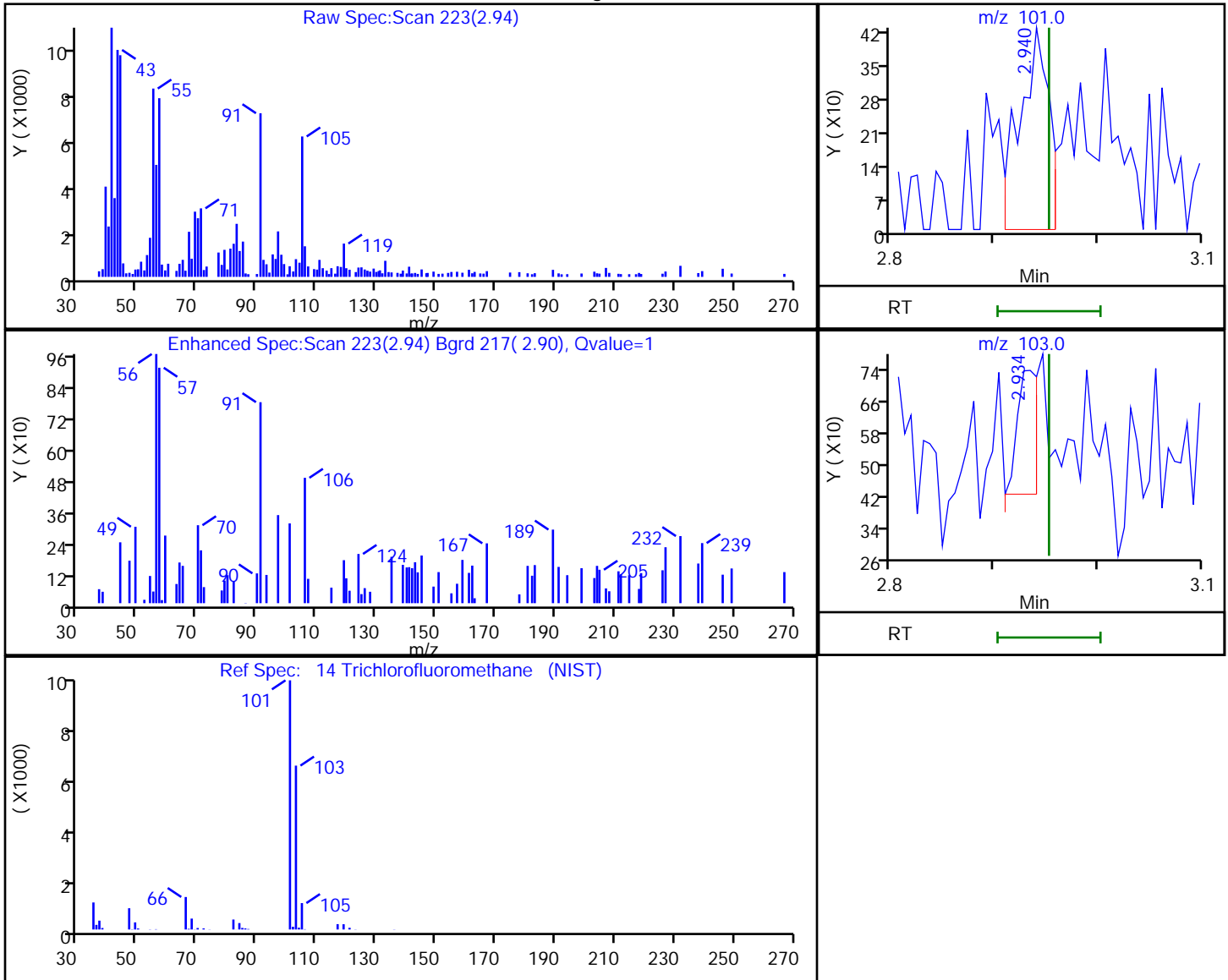
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002z.D  
 Injection Date: 01-Oct-2020 16:55:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
2.94	101.00	858	0.373961
2.93	103.00	422	

Reviewer: bohnc, 02-Oct-2020 08:59:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 01-Oct-2020 17:21:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 0.1  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 02-Oct-2020 11:32:21 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1029

First Level Reviewer: jantanuc

Date: 02-Oct-2020 14:17:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.709	1.709	0.000	17	424	1.00	1.55	
4 Chloromethane	50	1.934	1.934	0.000	5	5222	1.00	1.86	M
5 Vinyl chloride	62	2.056	2.056	0.000	44	2465	1.00	1.09	M
6 Butadiene	54	2.099	2.099	0.000	43	1712	1.00	0.9779	M
7 Bromomethane	94	2.465	2.465	0.000	10	216	1.00	0.7064	M
10 Dichlorofluoromethane	67	2.898	2.898	0.000	11	1623	1.00	0.7715	M
14 Trichlorofluoromethane	101	2.946	2.946	0.000	37	2659	1.00	1.24	M
17 Ethyl ether	59	3.337	3.337	0.000	43	1613	1.00	0.8605	M
12 Acrolein	56	3.532	3.532	0.000	45	2870	6.00	6.69	M
19 1,1-Dichloroethene	96	3.678	3.678	0.000	2	154	1.00	0.1475	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.751	3.751	0.000	1	1171	1.00	1.17	M
16 Acetone	43	3.745	3.745	0.000	86	12415	5.00	13.1	
22 Iodomethane	142	3.891	3.891	0.000	61	2370	1.00	1.25	M
26 Carbon disulfide	76	4.013	4.013	0.000	66	4506	1.00	1.14	M
S 2 Xylenes, Total	100				0			2.25	
15 Isopropyl alcohol	45	4.056	4.056	0.000	35	3213	10.0	15.5	M
13 Acetonitrile	40	4.275	4.275	0.000	8	1585	12.5	13.3	M
24 Methyl acetate	43	4.306	4.306	0.000	81	6595	2.00	2.34	M
23 Methylene Chloride	84	4.550	4.550	0.000	78	5638	1.00	1.00	M
* 18 TBA-d9 (IS)	65	4.653	4.653	0.000	0	40435	200.0	200.0	
20 2-Methyl-2-propanol	59	4.818	4.818	0.000	24	3831	10.0	13.8	M
21 Acrylonitrile	53	4.995	4.995	0.000	93	6918	10.0	11.0	M
27 trans-1,2-Dichloroethene	96	5.050	5.050	0.000	51	1954	1.00	1.21	M
28 Methyl tert-butyl ether	73	5.080	5.080	0.000	29	4194	1.00	0.8930	M
34 Hexane	57	5.647	5.647	0.000	77	13592	1.00	1.74	M
30 1,1-Dichloroethane	63	5.897	5.897	0.000	46	4666	1.00	1.23	M
31 Vinyl acetate	86	5.970	5.970	0.000	79	1398	2.50	3.86	M
32 2-Chloro-1,3-butadiene	53	6.043	6.043	0.000	50	5500	1.00	1.17	M
35 Isopropyl ether	45	6.050	6.050	0.000	63	10907	1.25	1.17	
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	82	2208	1.25	1.03	M
33 2-Butanone (MEK)	72	6.915	6.915	0.000	87	162	5.00	0.8252	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.915	6.915	0.000	33	3535	1.00	1.40	M
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	53	2714	1.00	1.50	M
29 Propionitrile	54	7.007	7.007	0.000	80	4166	12.5	13.2	M
38 Ethyl acetate	43	7.068	7.068	0.000	61	5214	2.00	1.97	M
36 Methacrylonitrile	67	7.257	7.257	0.000	88	9105	10.0	13.3	M
39 Chlorobromomethane	130	7.305	7.305	0.000	43	1136	1.00	1.06	M
40 Chloroform	83	7.500	7.500	0.000	63	4124	1.00	1.28	M
48 1,1,1-Trichloroethane	97	7.702	7.702	0.000	49	2921	1.00	1.07	M
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.738	0.000	81	17884	10.0	10.4	
51 Cyclohexane	84	7.811	7.811	0.000	33	2803	1.00	1.21	M
52 Carbon tetrachloride	117	7.921	7.921	0.000	52	2830	1.00	0.9646	M
50 1,1-Dichloropropene	75	7.946	7.946	0.000	63	2688	1.00	1.08	M
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	23573	10.0	10.1	
53 Benzene	78	8.195	8.195	0.000	58	7241	1.00	1.07	
42 Isobutyl alcohol	43	8.202	8.202	0.000	58	4124	25.0	26.8	
47 1,2-Dichloroethane	62	8.269	8.269	0.000	61	3253	1.00	1.02	
54 Tert-amyl methyl ether	73	8.421	8.421	0.000	61	6267	1.25	1.26	M
* 55 Fluorobenzene (IS)	96	8.598	8.598	0.000	95	64323	10.0	10.0	
56 n-Heptane	43	8.634	8.634	0.000	48	5259	1.00	1.07	
45 Tetrahydrofuran	42	8.634	8.634	0.000	22	2029	2.00	2.02	Ma
61 Trichloroethene	132	9.025	9.025	0.000	67	1959	1.00	1.05	M
57 Ethyl acrylate	55	9.153	9.153	0.000	57	4075	1.00	1.15	M
66 Methylcyclohexane	83	9.268	9.268	0.000	66	3995	1.00	1.32	
49 n-Butanol	56	9.256	9.256	0.000	34	1158	25.0	23.4	M
60 1,2-Dichloropropane	63	9.299	9.299	0.000	39	2530	1.00	1.16	M
59 Dibromomethane	174	9.390	9.390	0.000	19	930	1.00	0.9685	M
63 Methyl methacrylate	69	9.396	9.396	0.000	67	2369	2.00	2.08	M
62 Dichlorobromomethane	83	9.585	9.585	0.000	62	2986	1.00	1.18	
58 2-Nitropropane	43	9.805	9.805	0.000	40	3027	2.00	2.54	M
65 2-Chloroethyl vinyl ether	63	9.884	9.884	0.000	51	1223	1.00	0.8105	M
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	54	3254	1.00	1.05	
68 4-Methyl-2-pentanone (MIBK)	58	10.165	10.165	0.000	89	4534	5.00	5.16	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	94	64856	10.0	9.83	
74 Toluene	91	10.341	10.341	0.000	87	9868	1.00	1.21	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	67	3142	1.00	1.11	
73 Ethyl methacrylate	69	10.628	10.628	0.000	64	3104	1.00	1.46	
71 1,1,2-Trichloroethane	97	10.750	10.750	0.000	48	1903	1.00	0.9467	
79 Tetrachloroethene	164	10.817	10.817	0.000	70	1697	1.00	1.12	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	55	2910	1.00	1.11	
76 2-Hexanone	58	10.933	10.933	0.000	84	5083	5.00	5.90	
77 Chlorodibromomethane	129	11.073	11.073	0.000	48	1973	1.00	1.04	
78 Ethylene Dibromide	107	11.177	11.177	0.000	56	1621	1.00	0.9660	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	88	52507	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	76	5269	1.00	1.04	M
80 1,1,1,2-Tetrachloroethane	131	11.683	11.683	0.000	28	1812	1.00	0.9306	
83 Ethylbenzene	91	11.683	11.683	0.000	89	10410	1.00	0.9151	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	9563	1.00	1.29	
88 o-Xylene	91	12.115	12.115	0.000	83	8907	1.00	0.9564	
86 Styrene	104	12.134	12.134	0.000	86	5401	1.00	1.10	
85 Bromoform	173	12.280	12.280	0.000	33	1041	1.00	0.9170	
91 Isopropylbenzene	105	12.414	12.414	0.000	91	9948	1.00	1.19	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	85	18323	10.0	9.66	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	54	2614	1.00	1.22	
93 Bromobenzene	156	12.682	12.682	0.000	76	1987	1.00	1.06	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	44	1296	1.00	0.9429	M
90 1,2,3-Trichloropropane	110	12.713	12.713	0.000	1	632	1.00	1.19	
94 N-Propylbenzene	91	12.749	12.749	0.000	75	9880	1.00	1.07	
95 2-Chlorotoluene	126	12.829	12.829	0.000	84	2233	1.00	1.20	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	82	7300	1.00	1.09	M
96 4-Chlorotoluene	126	12.926	12.926	0.000	69	2335	1.00	1.20	
98 tert-Butylbenzene	119	13.146	13.146	0.000	79	6628	1.00	1.08	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	52	8616	1.00	1.29	
100 sec-Butylbenzene	105	13.323	13.323	0.000	80	9512	1.00	1.10	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	79	3468	1.00	1.02	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	79	7989	1.00	1.11	
* 103 1,4-Dichlorobenzene-d4	152	13.487	13.487	0.000	93	21880	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	70	3687	1.00	1.09	a
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	44	7458	1.00	1.05	
101 Benzyl chloride	126	13.597	13.597	0.000	69	1462	1.00	2.01	
108 n-Butylbenzene	134	13.761	13.761	0.000	83	2243	1.00	1.26	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	77	3533	1.00	1.09	
109 1,2-Dibromo-3-Chloropropane	157	14.395	14.395	0.000	42	504	1.00	1.44	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	85	3116	1.00	1.25	
111 1,2,4-Trichlorobenzene	180	15.036	15.036	0.000	72	2441	1.00	1.16	
113 Hexachlorobutadiene	225	15.139	15.139	0.000	53	1365	1.00	1.05	
112 Naphthalene	128	15.243	15.243	0.000	90	7014	1.00	1.22	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	70	2647	1.00	1.22	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 0.10

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D

Injection Date: 01-Oct-2020 17:21:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 3

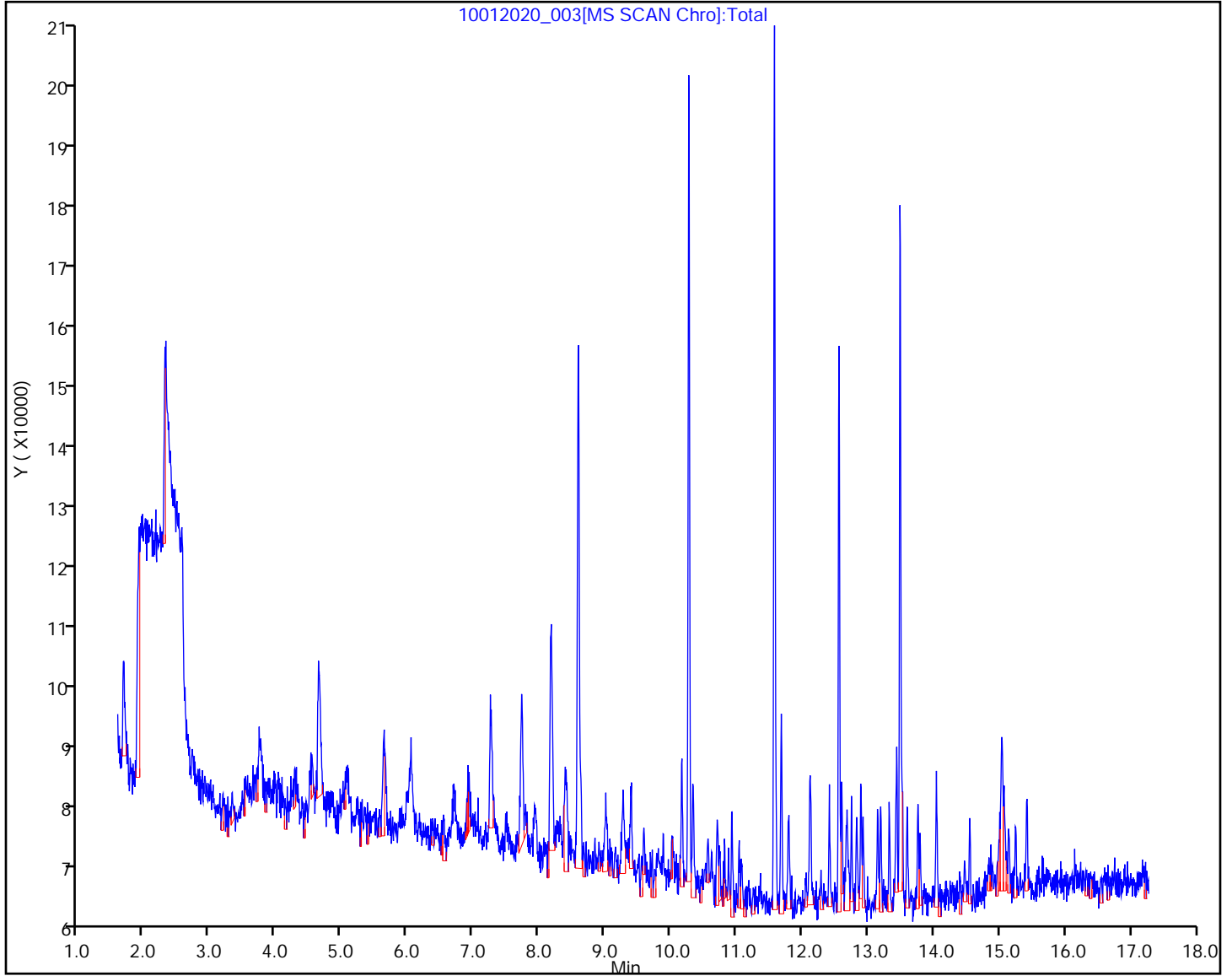
Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

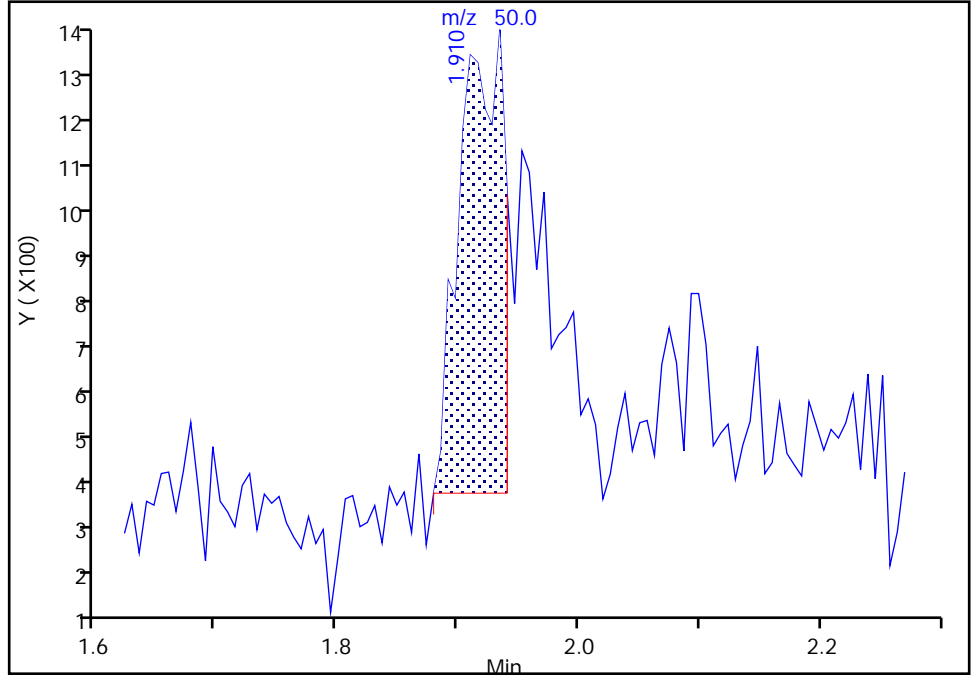
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Signal: 1

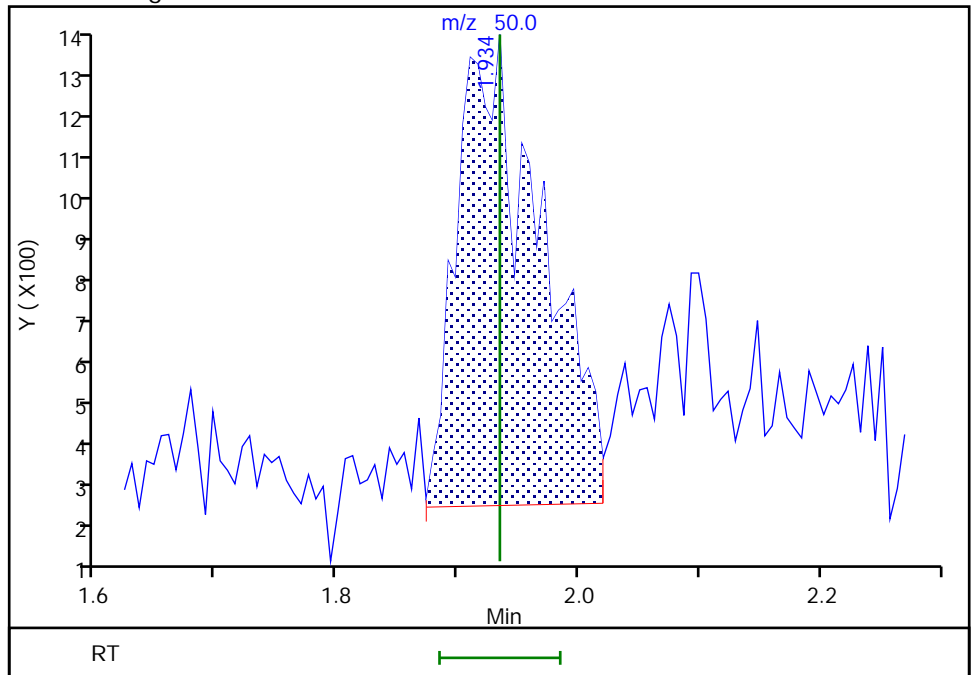
RT: 1.91  
Area: 2440  
Amount: 0.884706  
Amount Units: ug/L

Processing Integration Results



RT: 1.93  
Area: 5222  
Amount: 1.862735  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:13:45  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

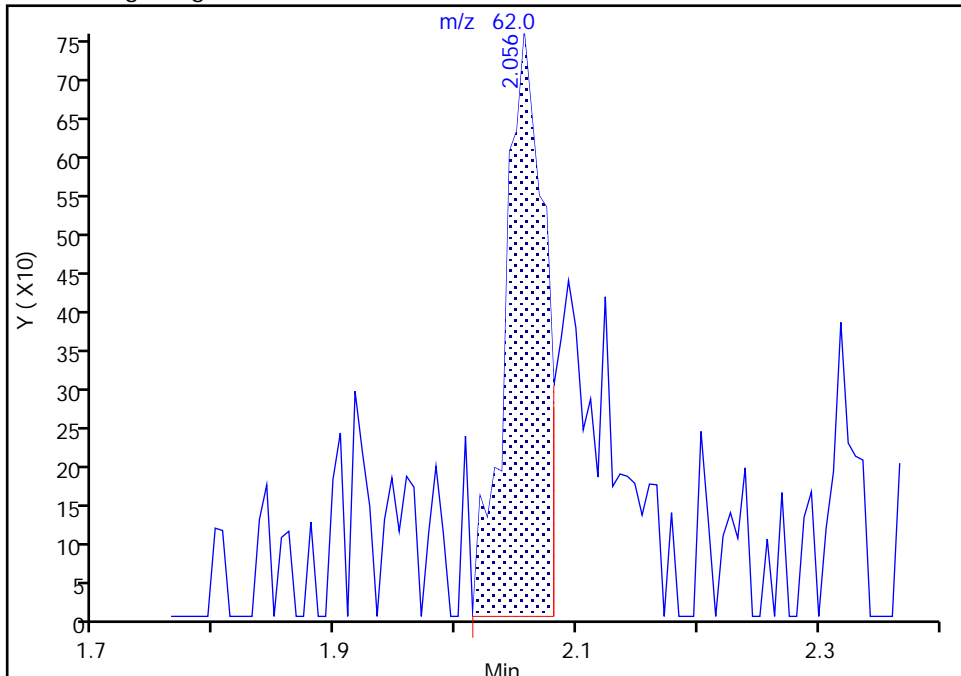
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

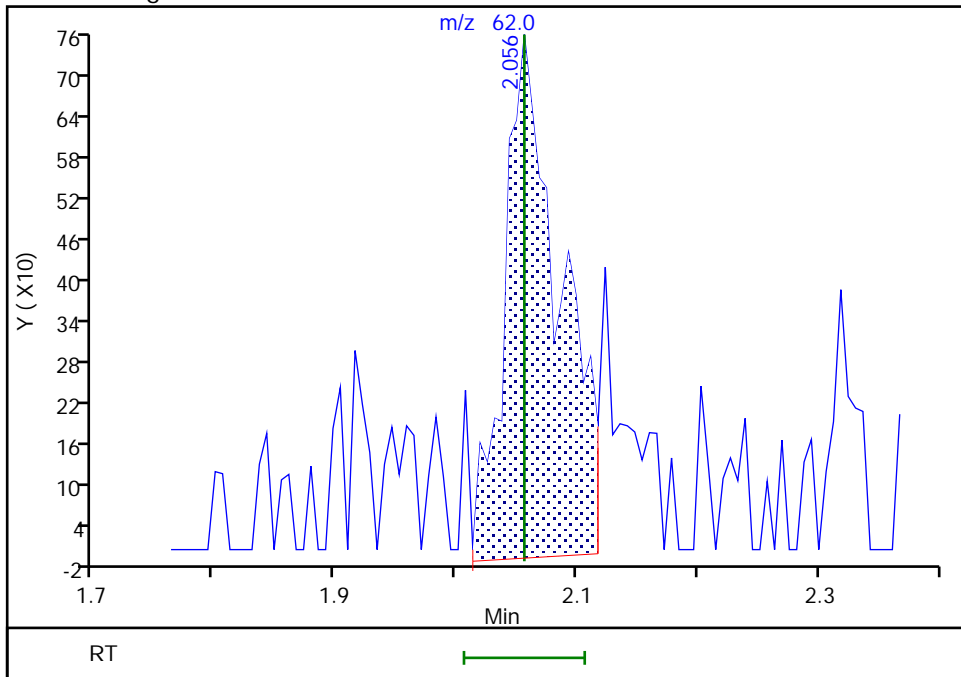
RT: 2.06  
Area: 1705  
Amount: 1.045546  
Amount Units: ug/L

Processing Integration Results



RT: 2.06  
Area: 2465  
Amount: 1.094214  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:13:51  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

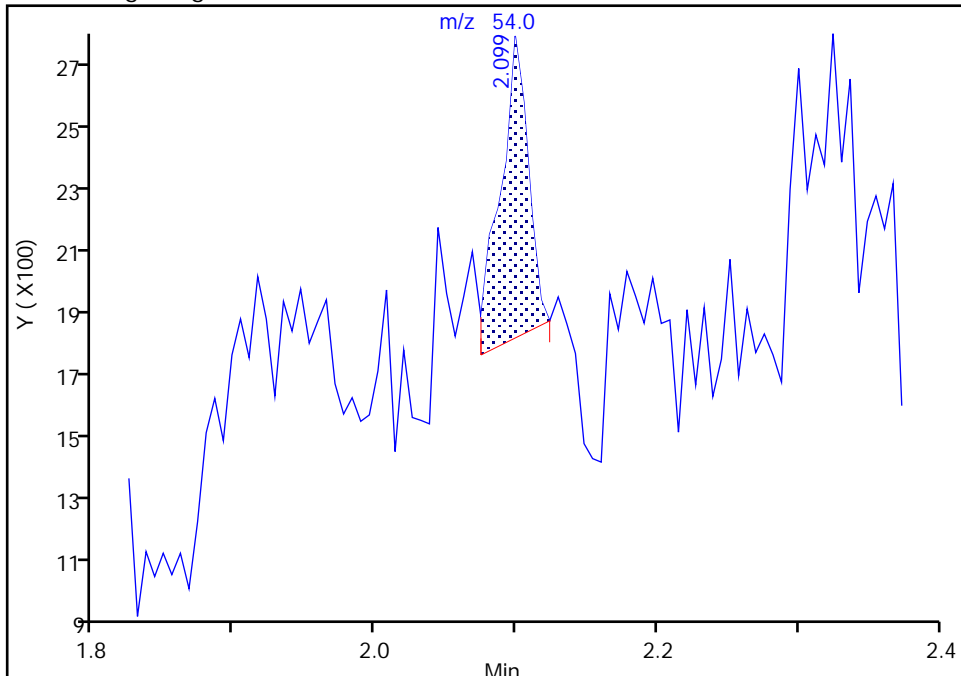
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Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

6 Butadiene, CAS: 106-99-0

Signal: 1

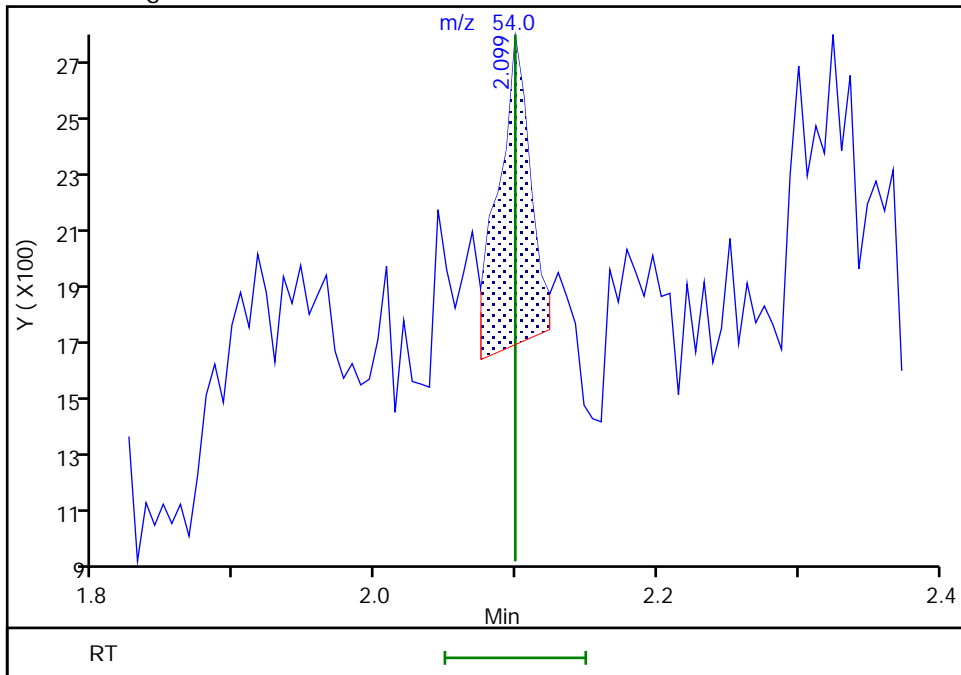
RT: 2.10  
Area: 1312  
Amount: 0.946297  
Amount Units: ug/L

Processing Integration Results



RT: 2.10  
Area: 1712  
Amount: 0.977929  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:13:55  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

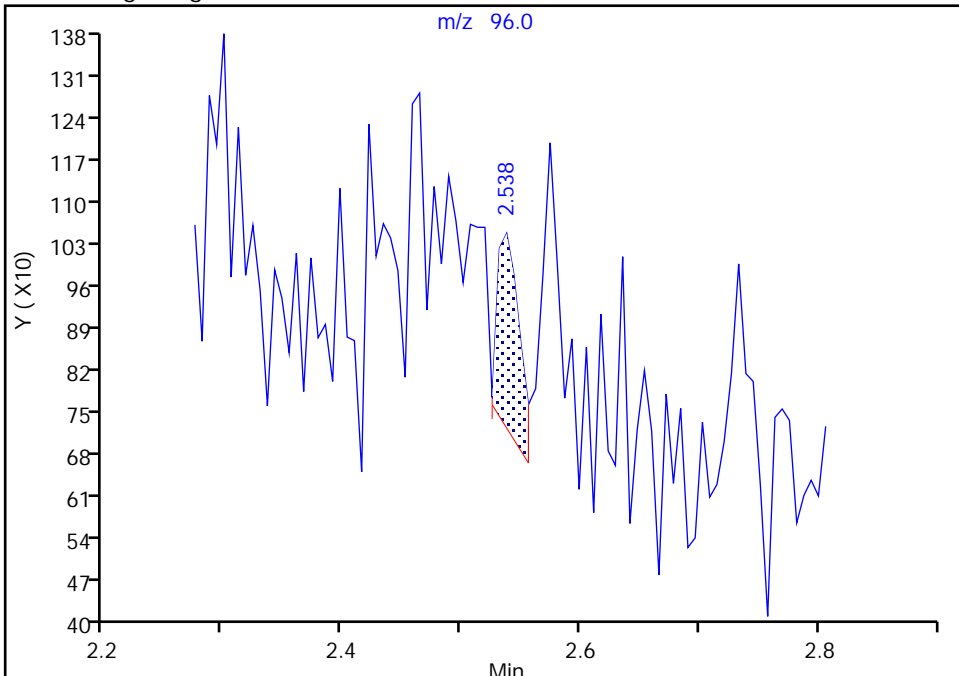
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 2

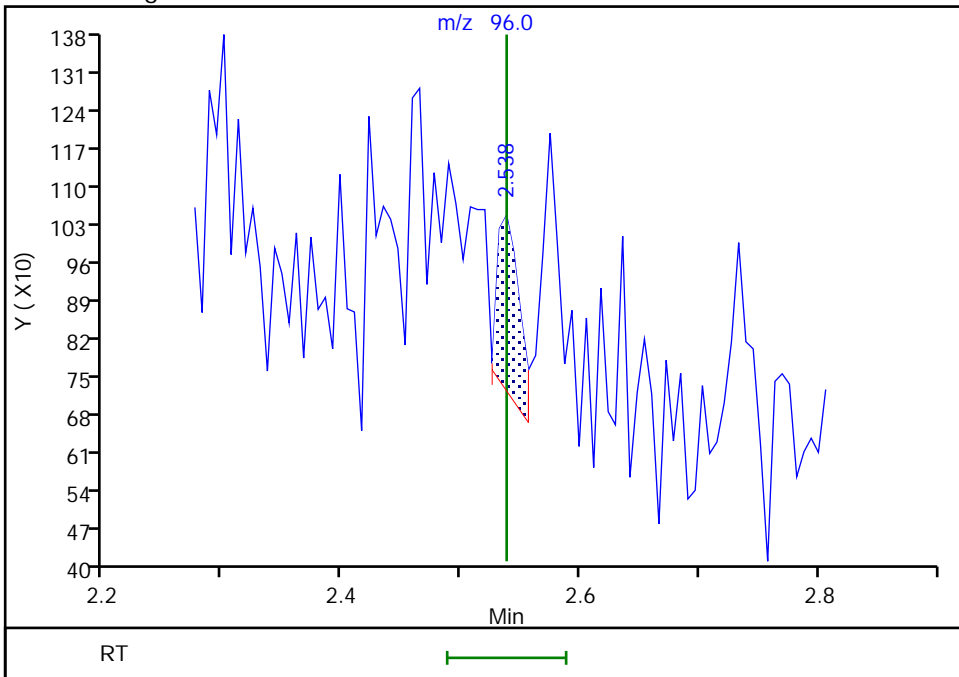
RT: 2.54  
Area: 426  
Amount: 0.446951  
Amount Units: ug/L

Processing Integration Results



RT: 2.54  
Area: 426  
Amount: 0.706379  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:11:53  
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID  
Page 323 of 974

Eurofins TestAmerica, Seattle

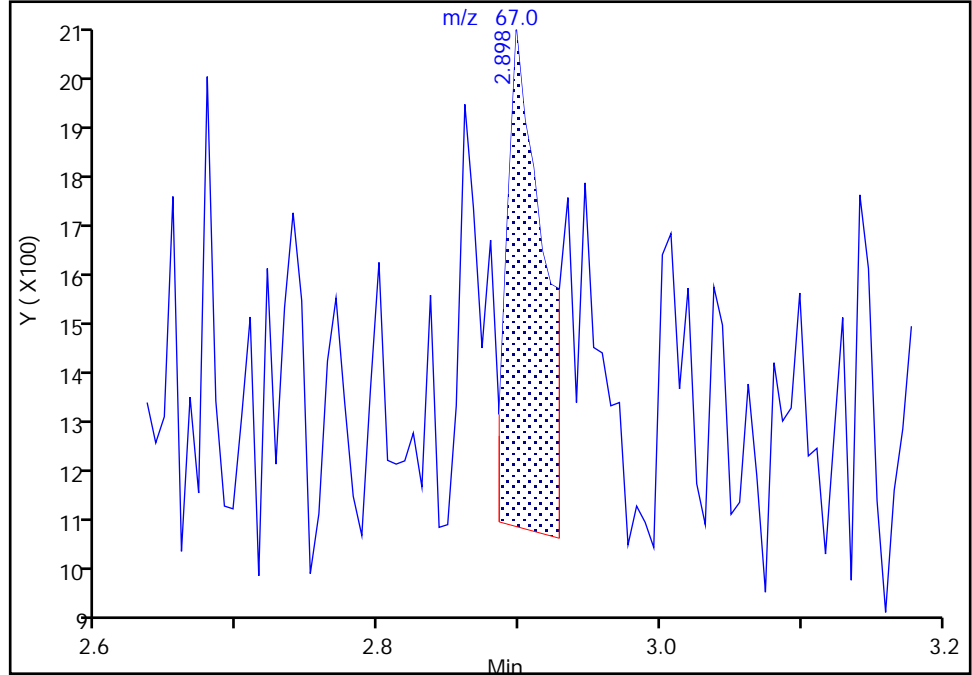
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

10 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

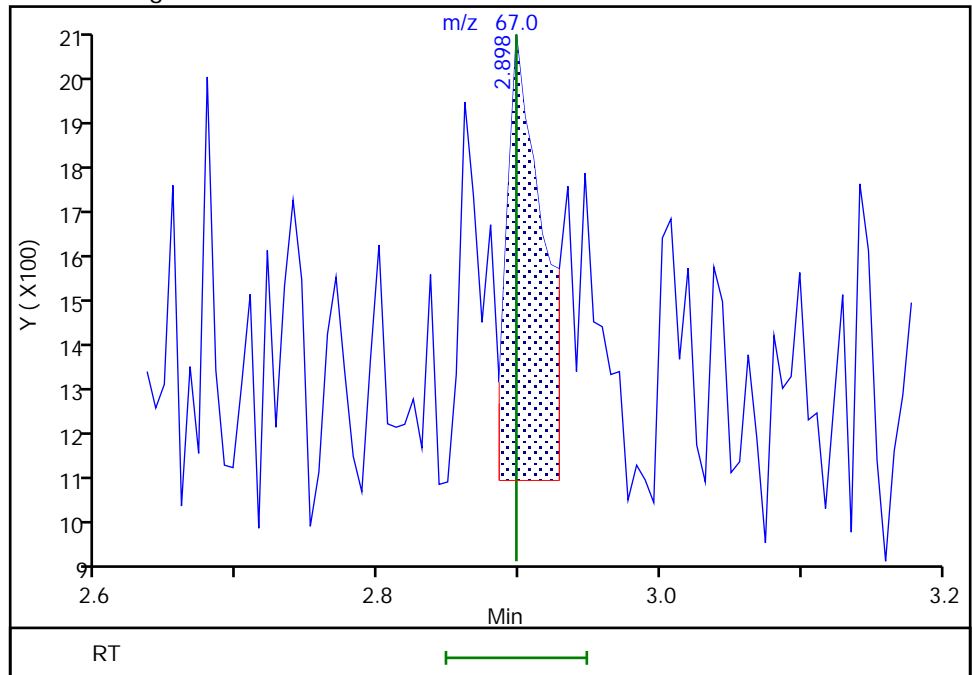
RT: 2.90  
Area: 1661  
Amount: 1.108240  
Amount Units: ug/L

Processing Integration Results



RT: 2.90  
Area: 1623  
Amount: 0.771534  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:04  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

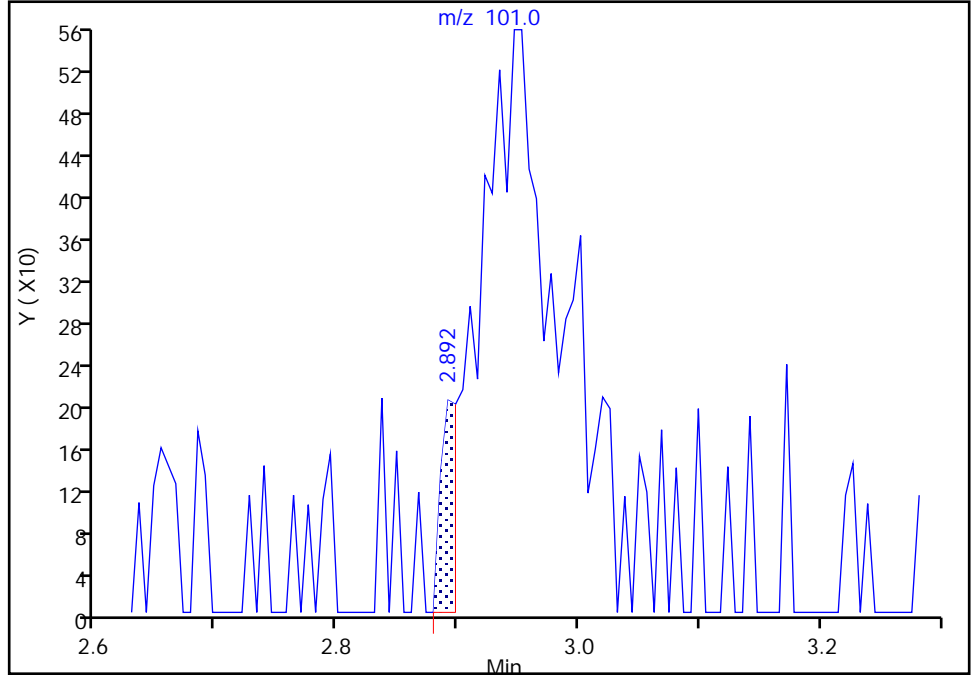
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Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

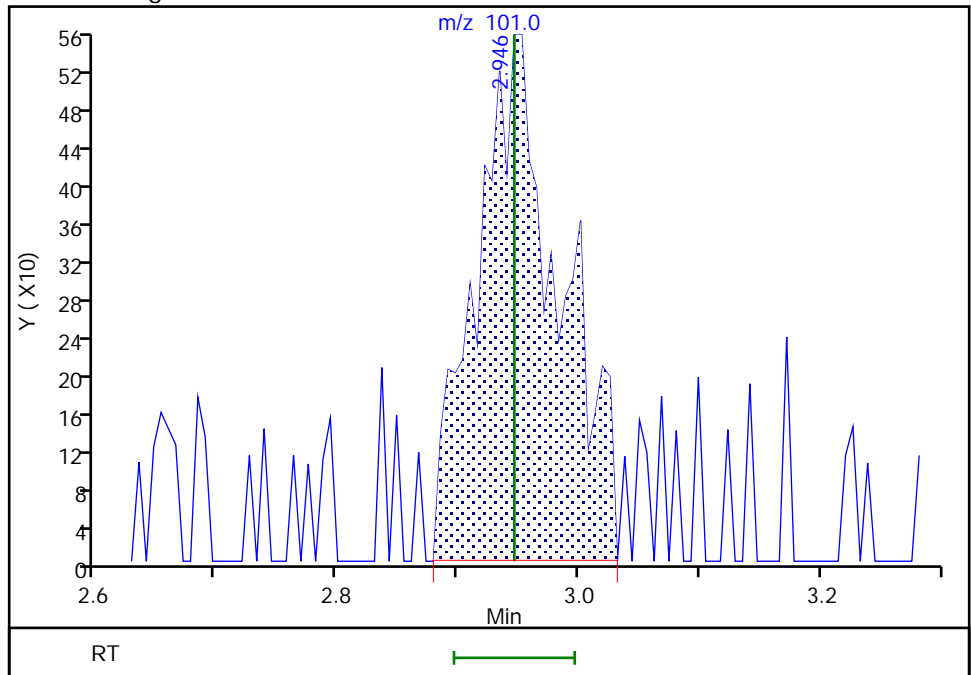
RT: 2.89  
Area: 195  
Amount: 0.107962  
Amount Units: ug/L

Processing Integration Results



RT: 2.95  
Area: 2659  
Amount: 1.239334  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:08  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

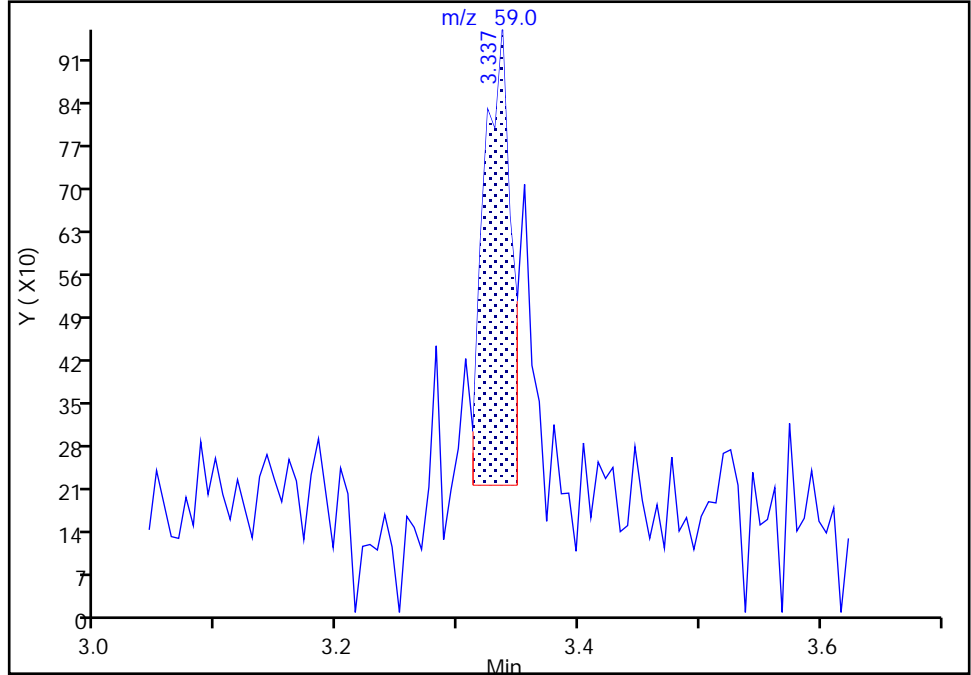
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

17 Ethyl ether, CAS: 60-29-7

Signal: 1

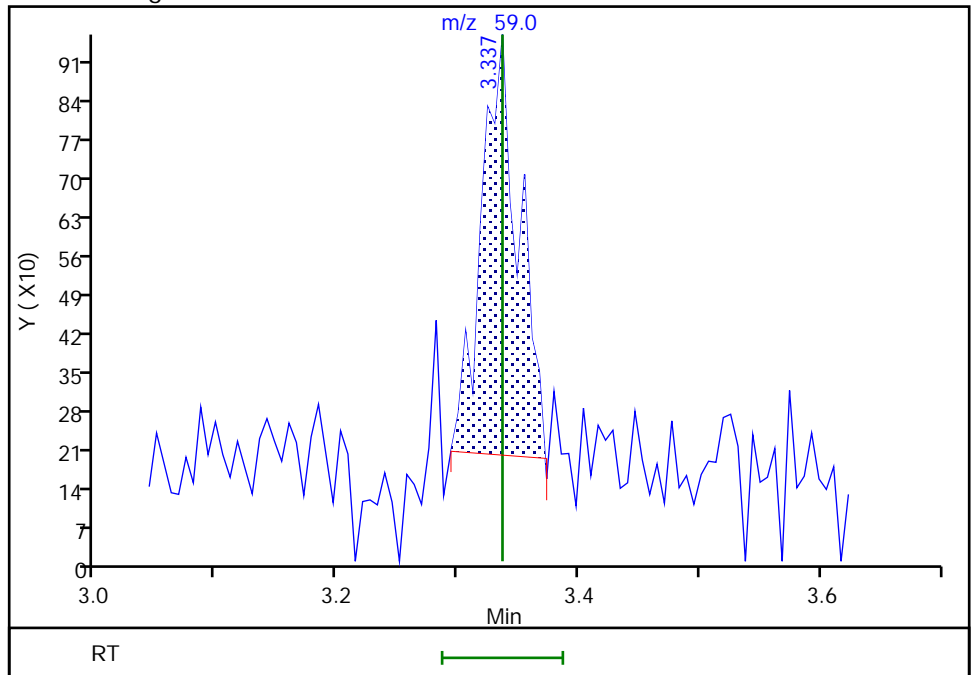
RT: 3.34  
Area: 1159  
Amount: 0.607506  
Amount Units: ug/L

Processing Integration Results



RT: 3.34  
Area: 1613  
Amount: 0.860459  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:12:13  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

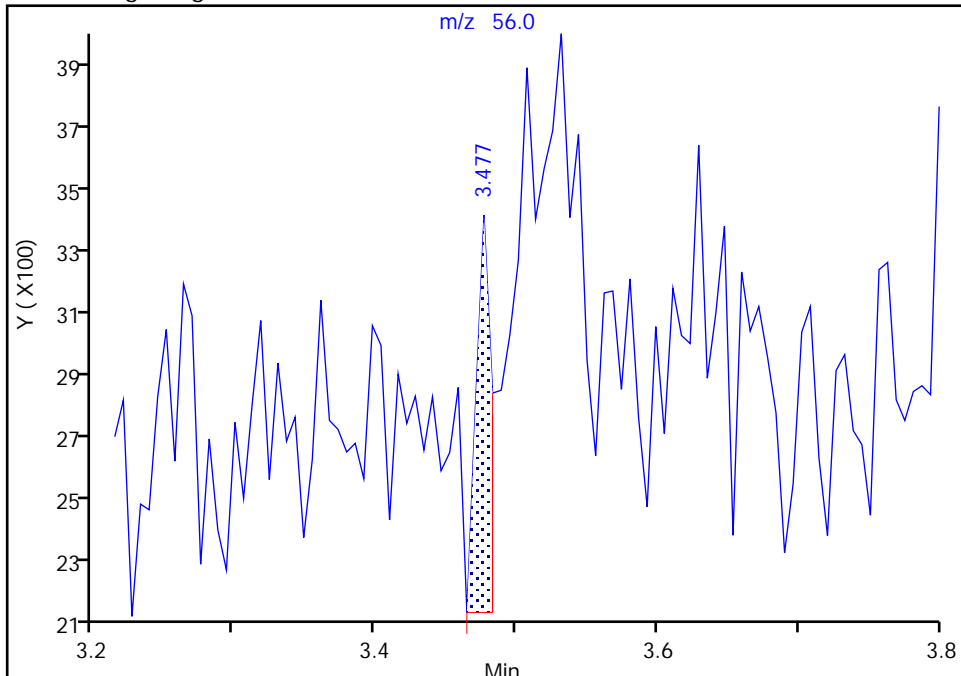
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

12 Acrolein, CAS: 107-02-8

Signal: 1

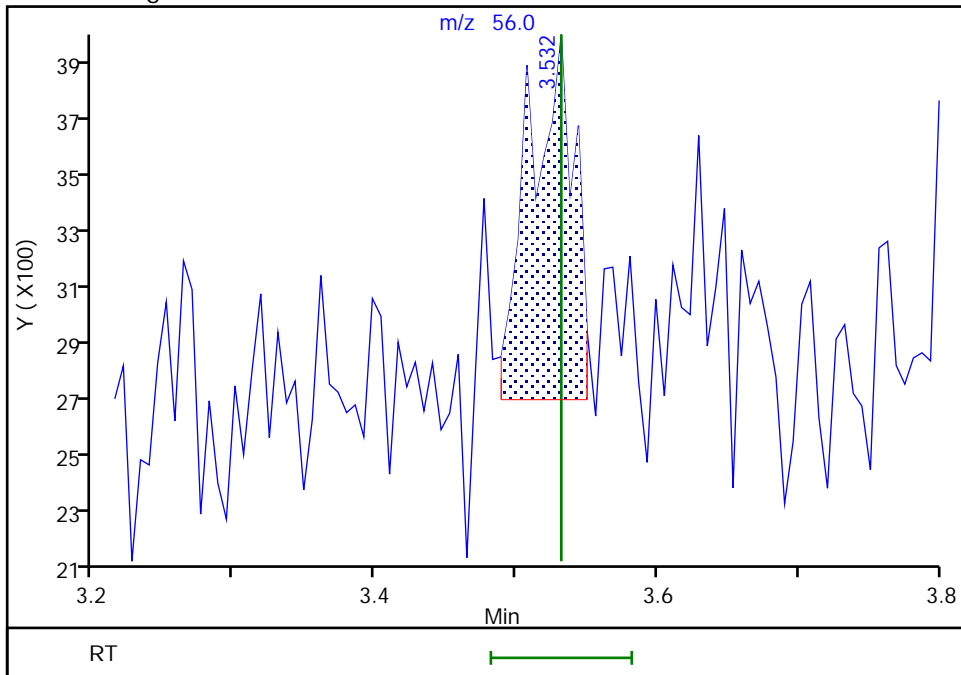
RT: 3.48  
Area: 946  
Amount: 2.376229  
Amount Units: ug/L

Processing Integration Results



RT: 3.53  
Area: 2870  
Amount: 6.692446  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:13  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

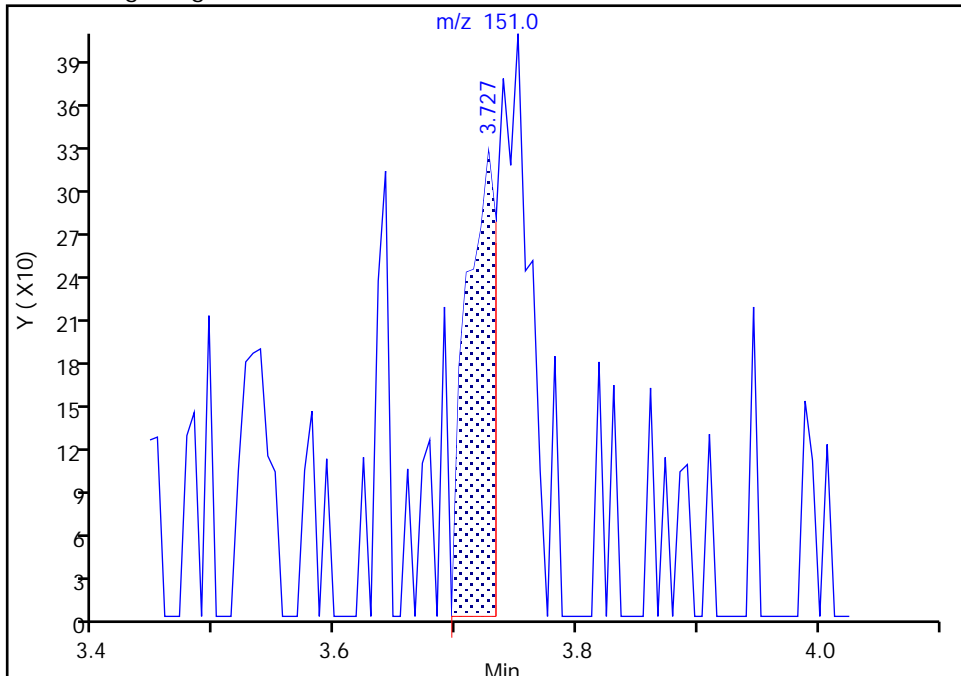
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

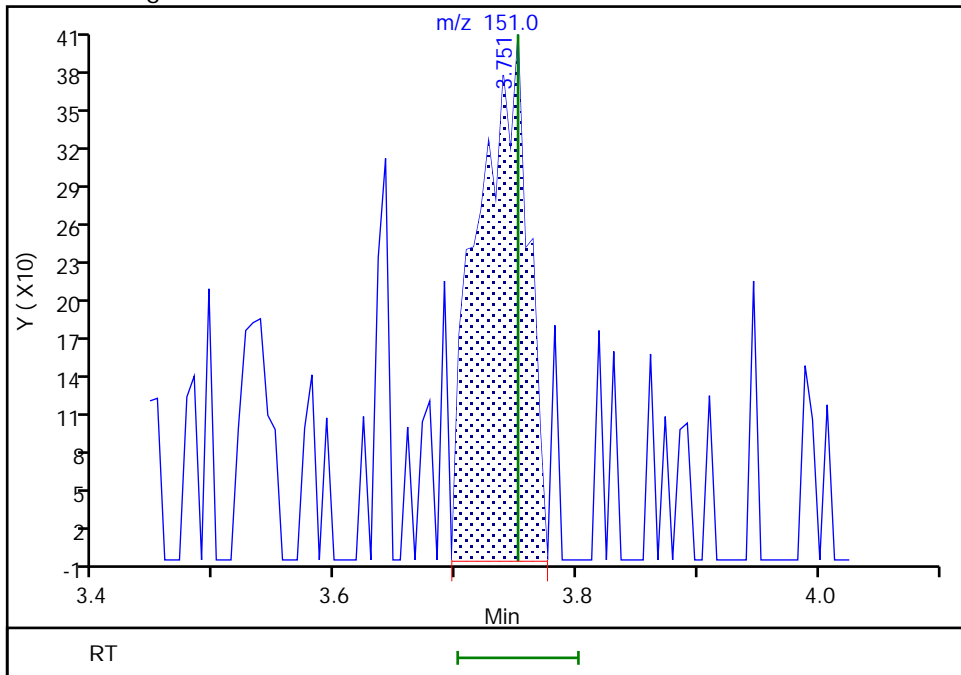
RT: 3.73  
Area: 554  
Amount: 0.638707  
Amount Units: ug/L

Processing Integration Results



RT: 3.75  
Area: 1171  
Amount: 1.165843  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:18  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

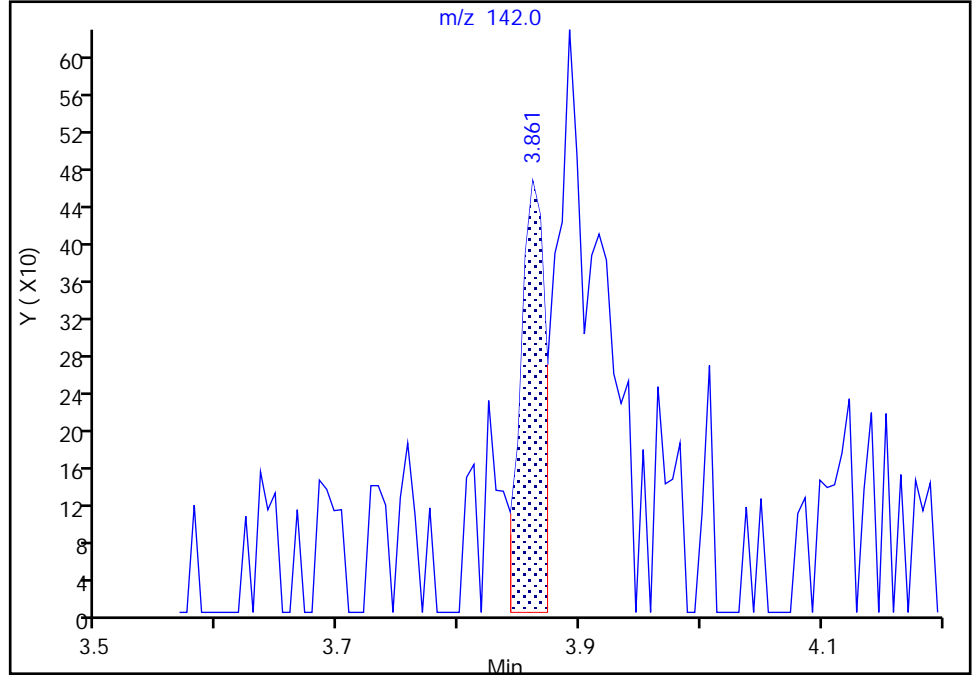
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Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

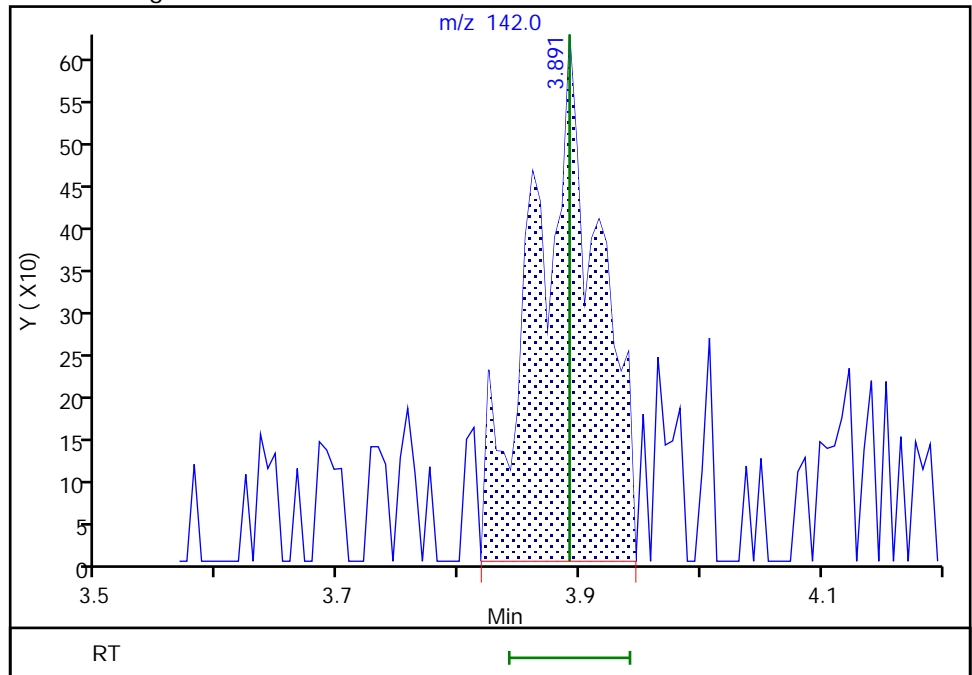
RT: 3.86  
Area: 674  
Amount: 0.577311  
Amount Units: ug/L

Processing Integration Results



RT: 3.89  
Area: 2370  
Amount: 1.246317  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:22  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

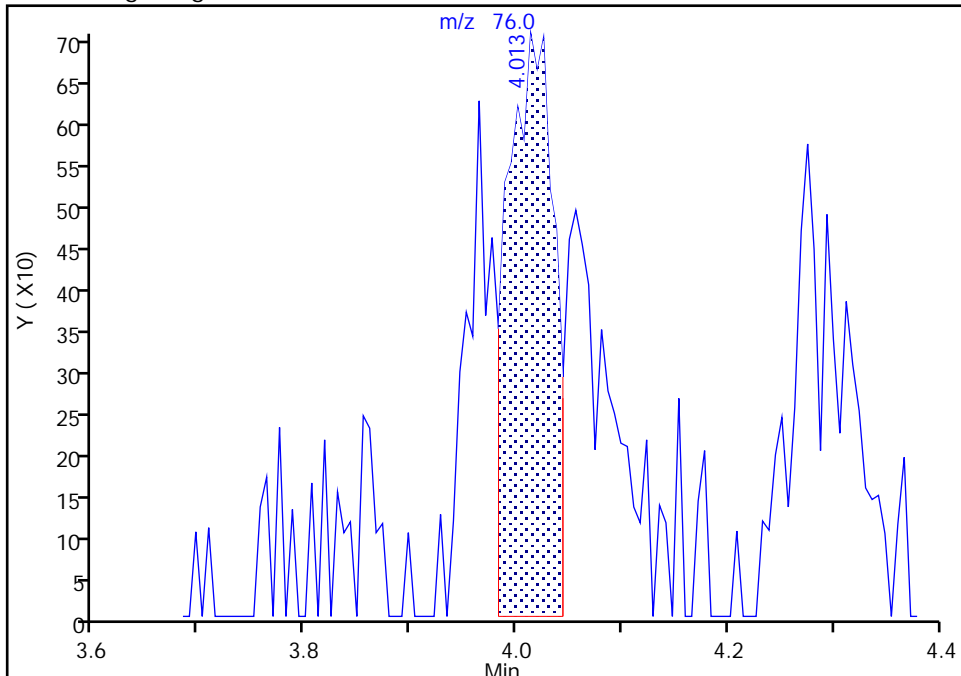
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

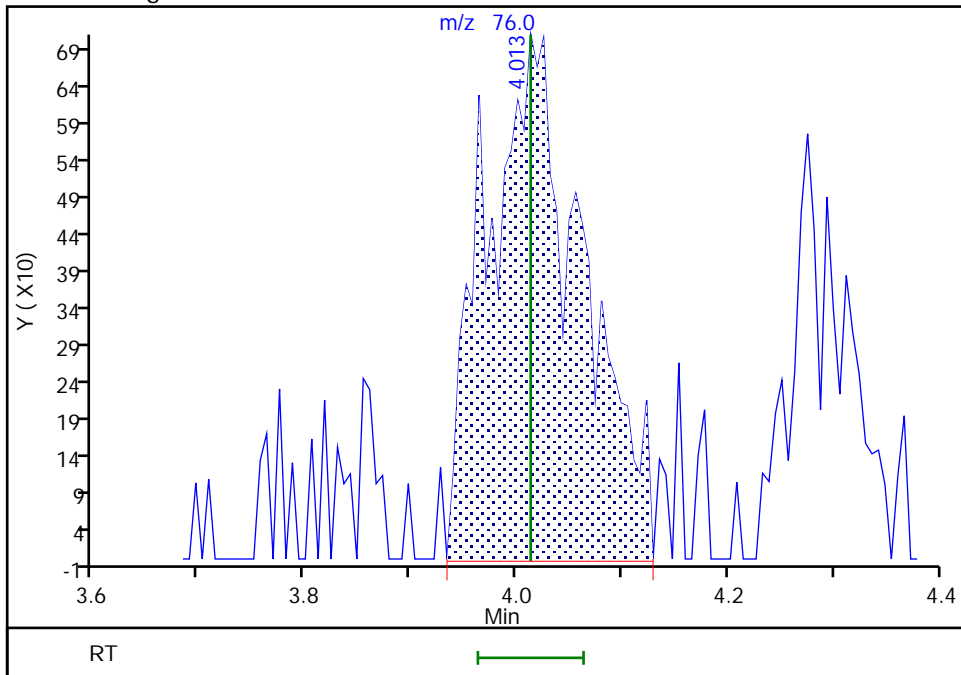
RT: 4.01  
Area: 2170  
Amount: 0.862275  
Amount Units: ug/L

Processing Integration Results



RT: 4.01  
Area: 4506  
Amount: 1.140023  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:26  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

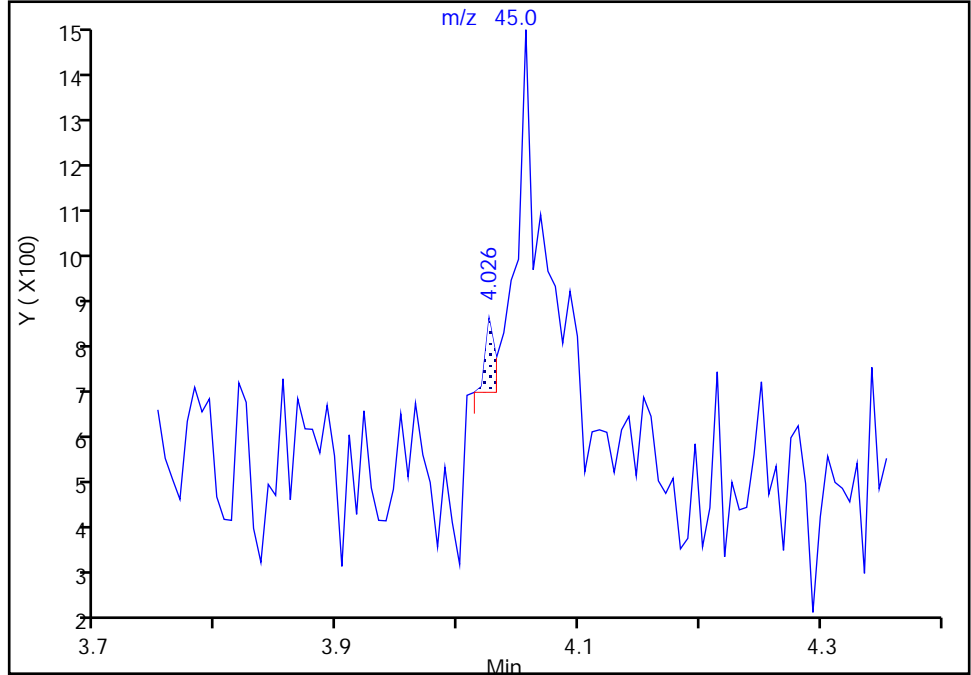
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

15 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

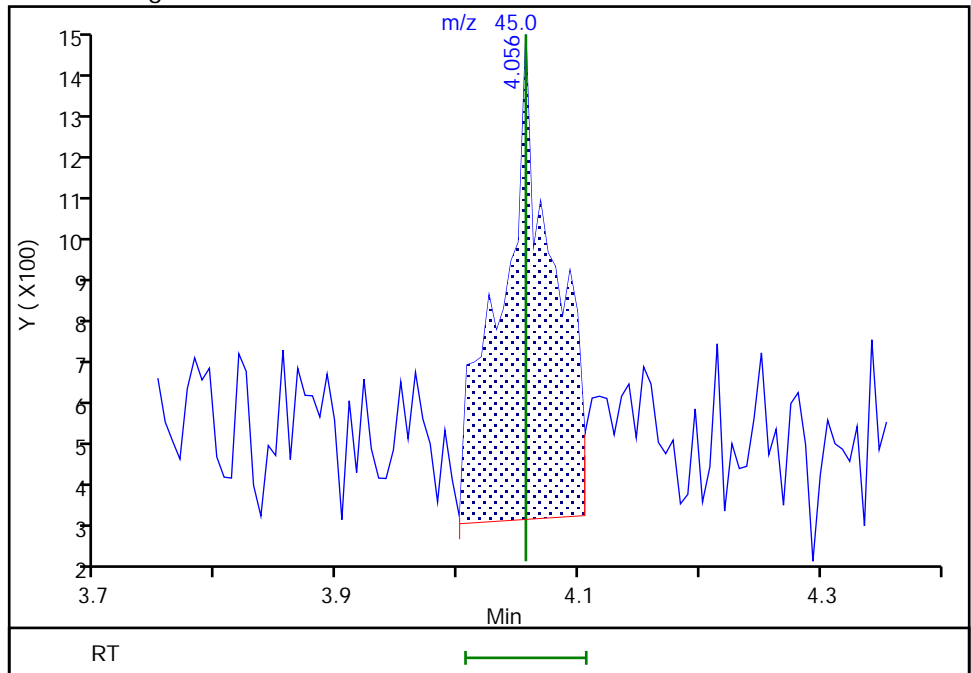
RT: 4.03  
Area: 84  
Amount: 0.491753  
Amount Units: ug/L

Processing Integration Results



RT: 4.06  
Area: 3213  
Amount: 15.527214  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:32  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

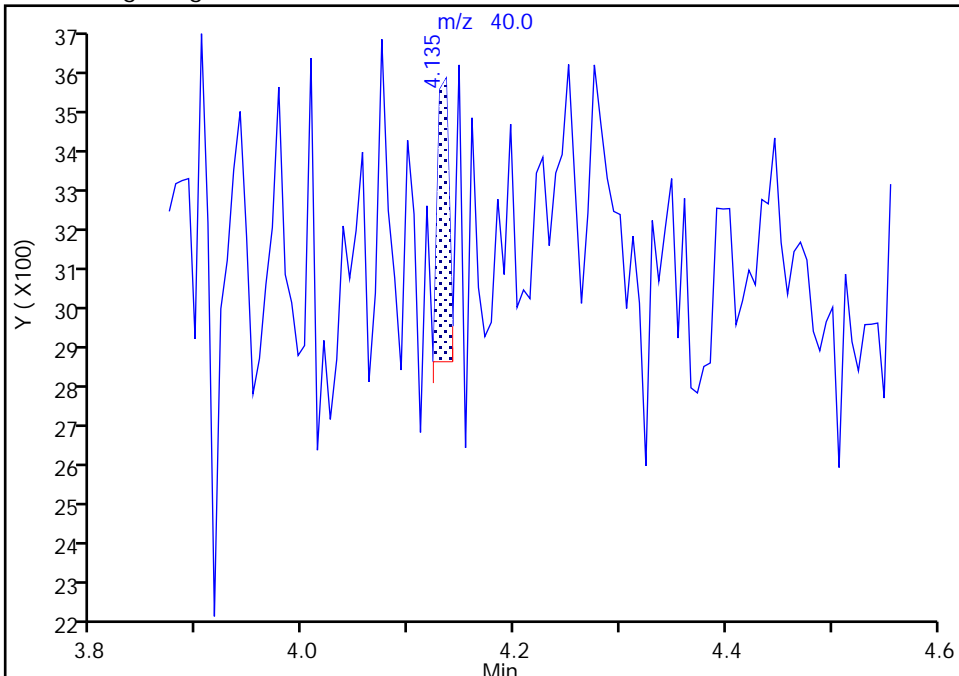
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

13 Acetonitrile, CAS: 75-05-8

Signal: 1

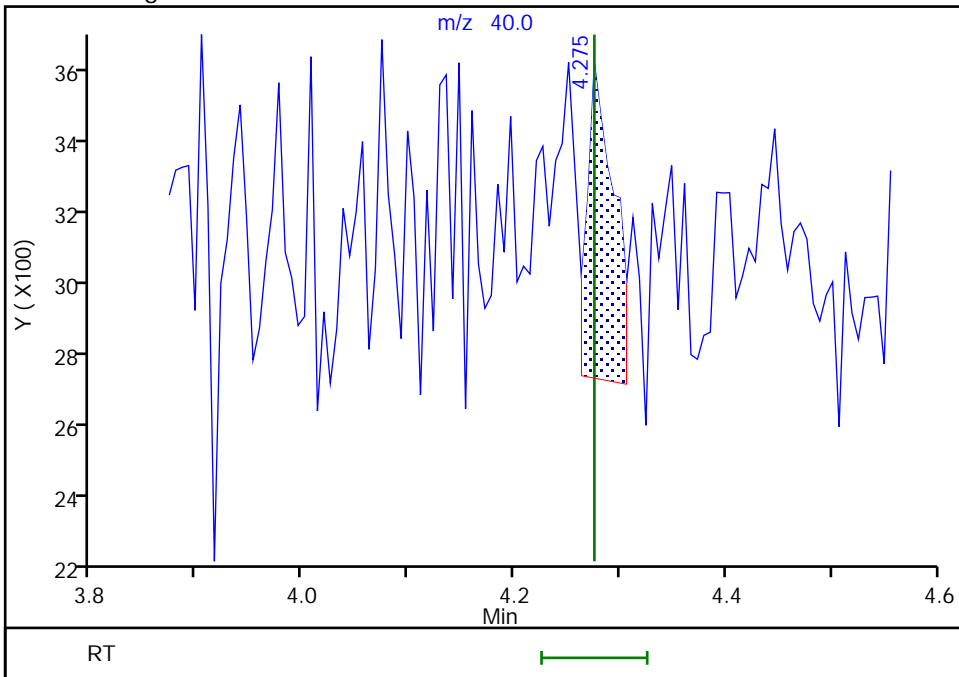
RT: 4.14  
Area: 548  
Amount: 4.329852  
Amount Units: ug/L

Processing Integration Results



RT: 4.28  
Area: 1585  
Amount: 13.269665  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:36  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

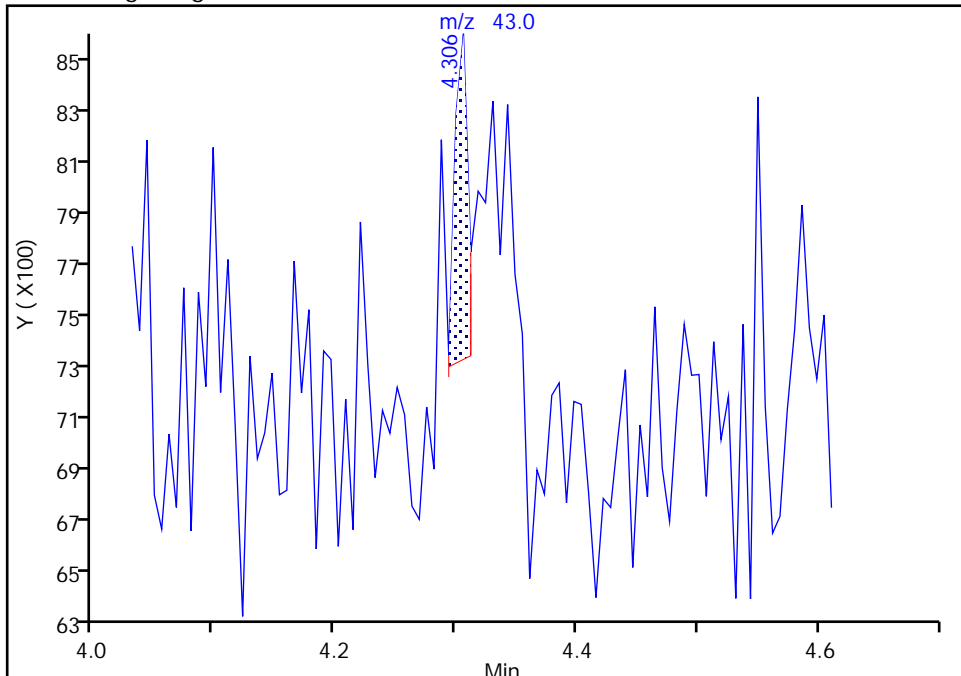
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Signal: 1

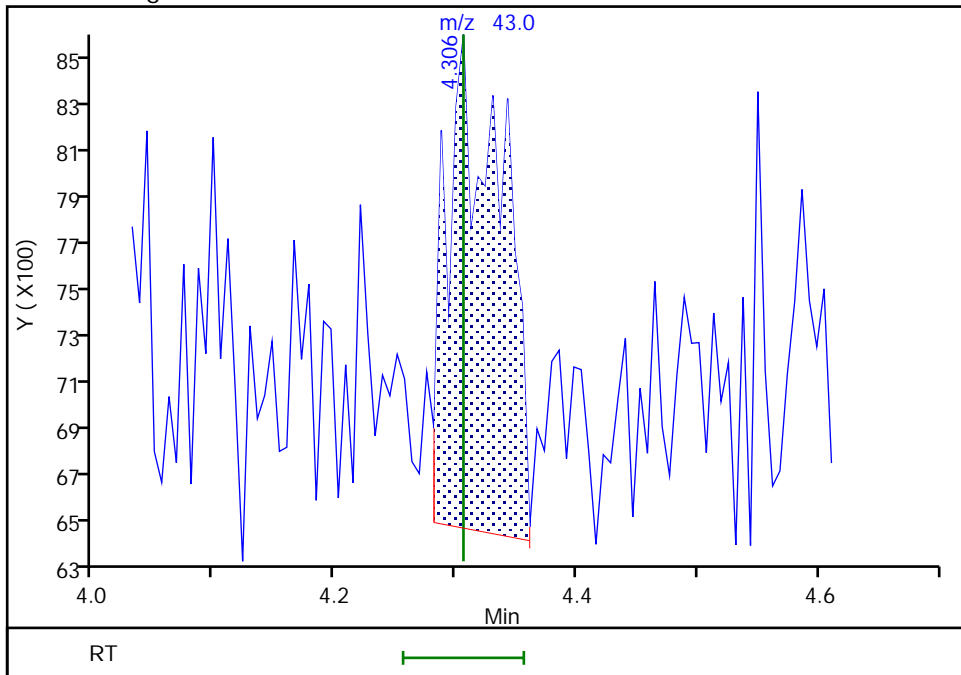
RT: 4.31  
Area: 955  
Amount: 0.588789  
Amount Units: ug/L

Processing Integration Results



RT: 4.31  
Area: 6595  
Amount: 2.337957  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

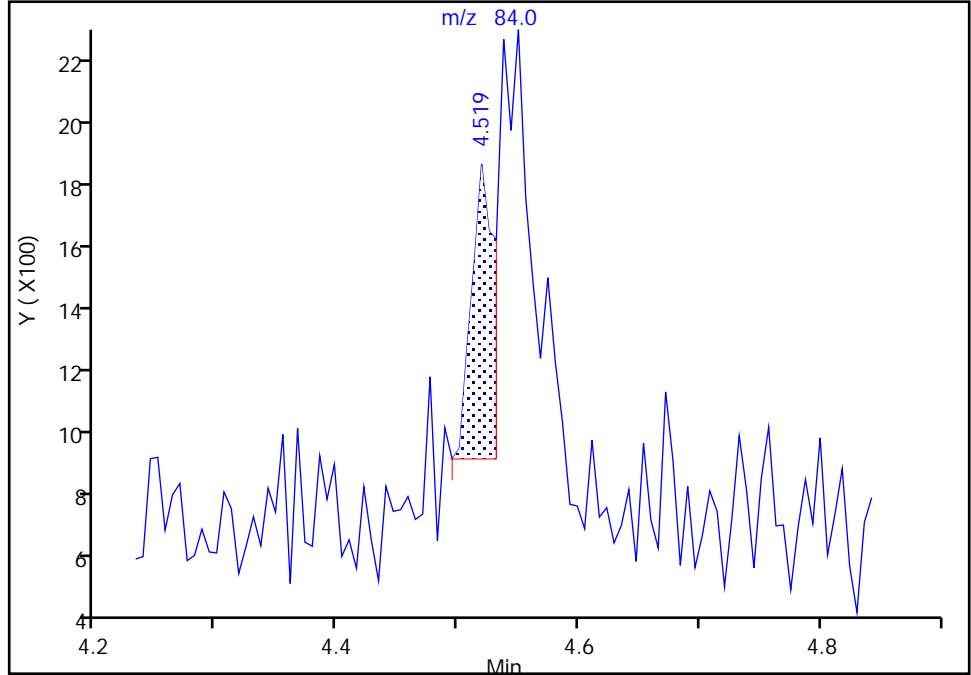
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Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

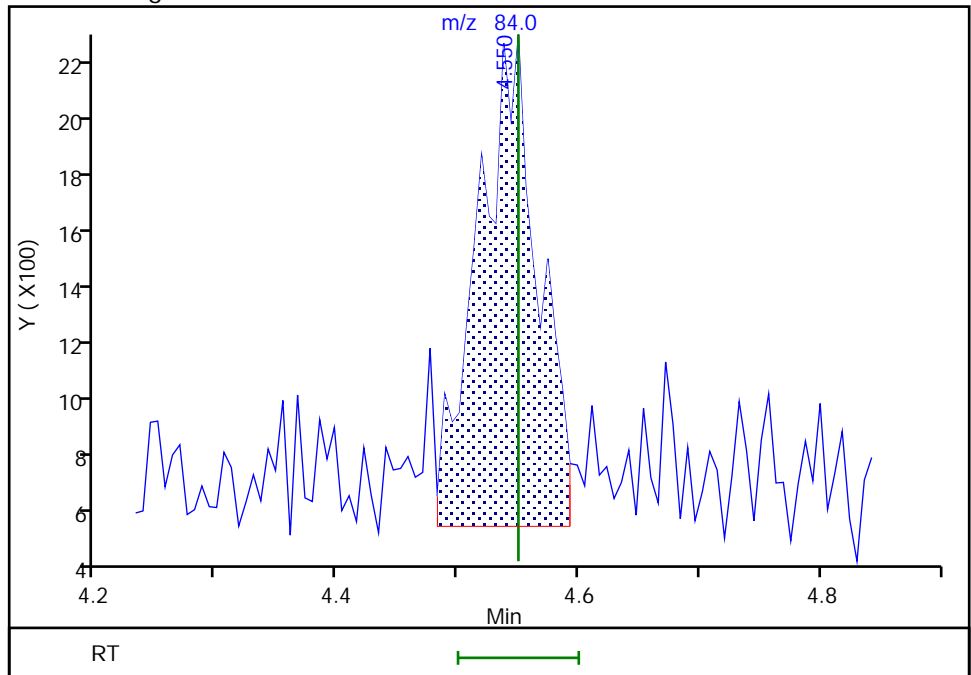
RT: 4.52  
Area: 1153  
Amount: 0.534838  
Amount Units: ug/L

Processing Integration Results



RT: 4.55  
Area: 5638  
Amount: 0.999038  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:42  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

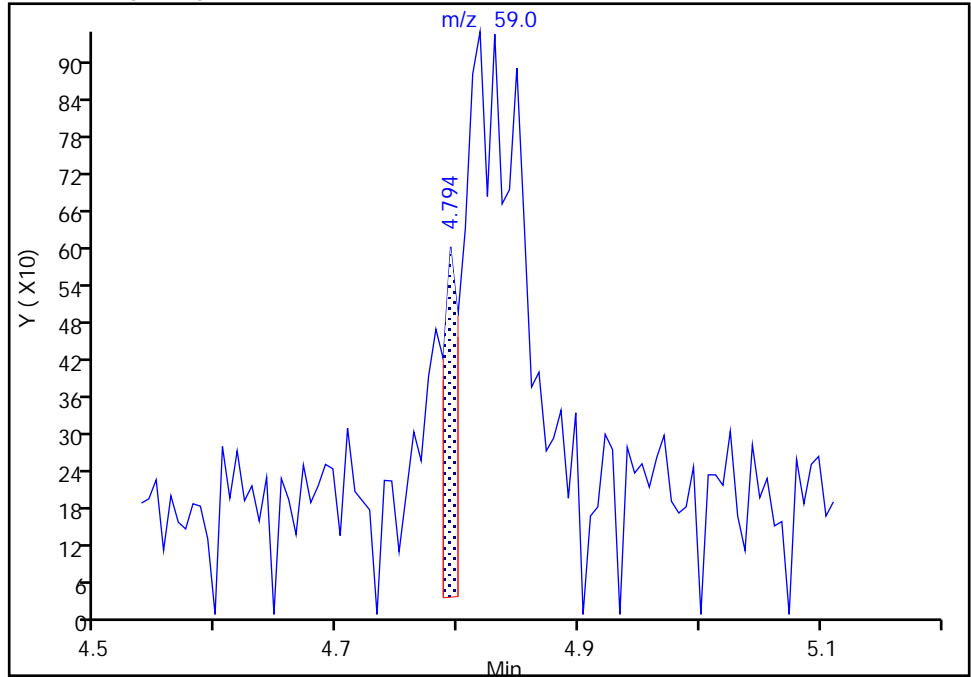
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

20 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

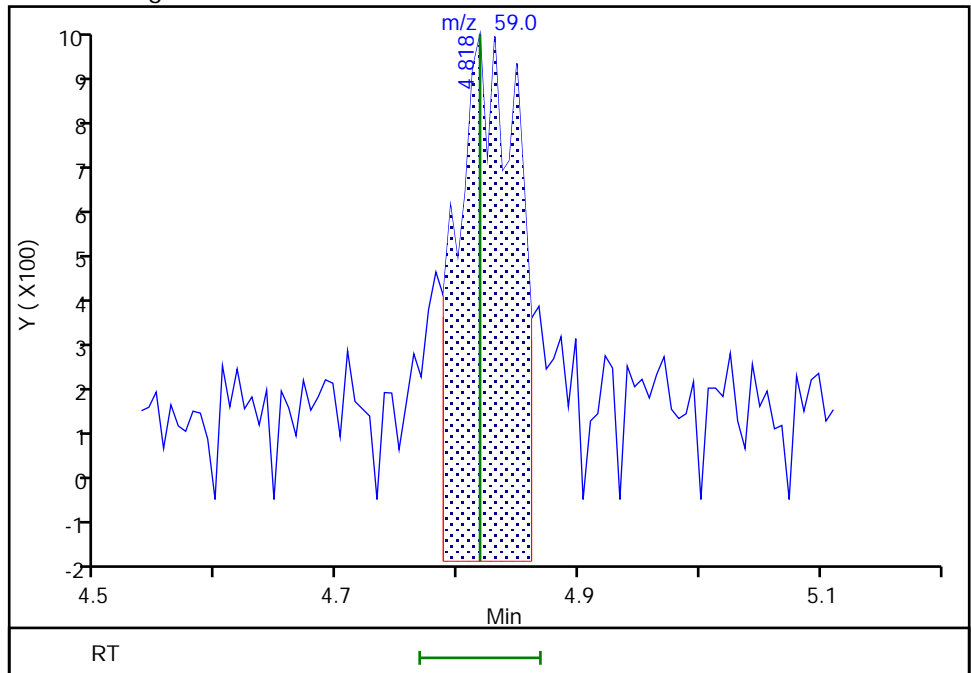
RT: 4.79  
Area: 518  
Amount: 2.263046  
Amount Units: ug/L

Processing Integration Results



RT: 4.82  
Area: 3831  
Amount: 13.814866  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:47  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

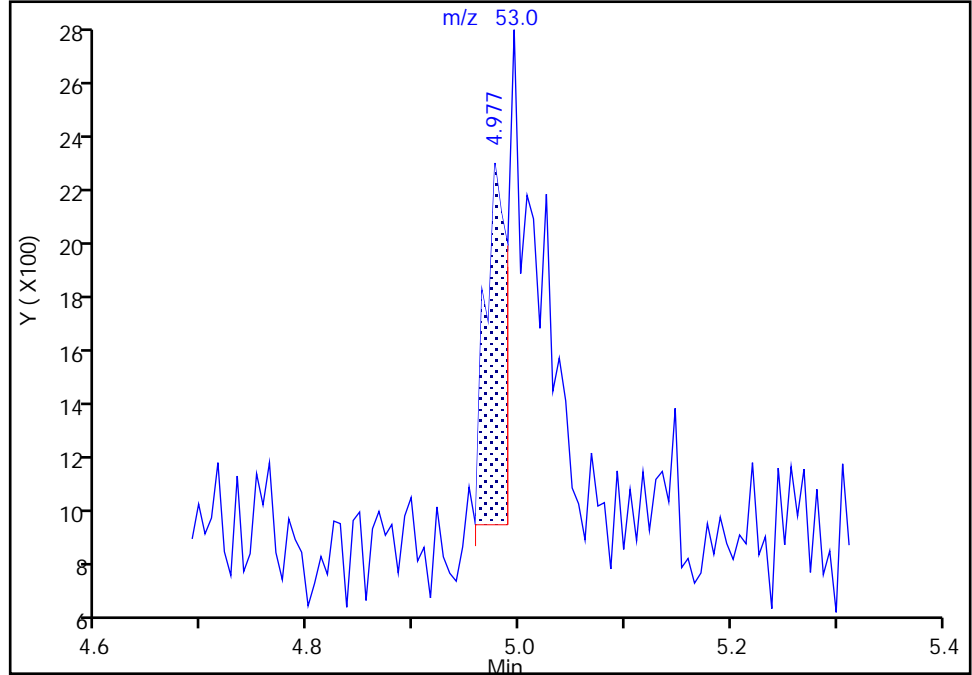
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

21 Acrylonitrile, CAS: 107-13-1

Signal: 1

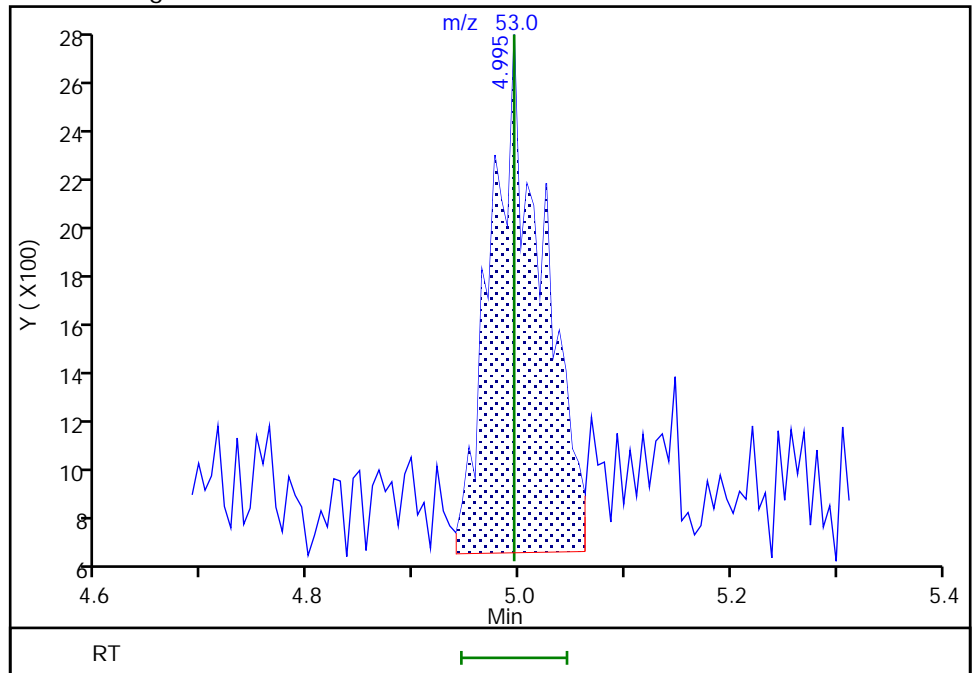
RT: 4.98  
Area: 1789  
Amount: 7.019661  
Amount Units: ug/L

Processing Integration Results



RT: 4.99  
Area: 6918  
Amount: 11.006626  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:51  
Audit Action: Manually Integrated



Euofins TestAmerica, Seattle

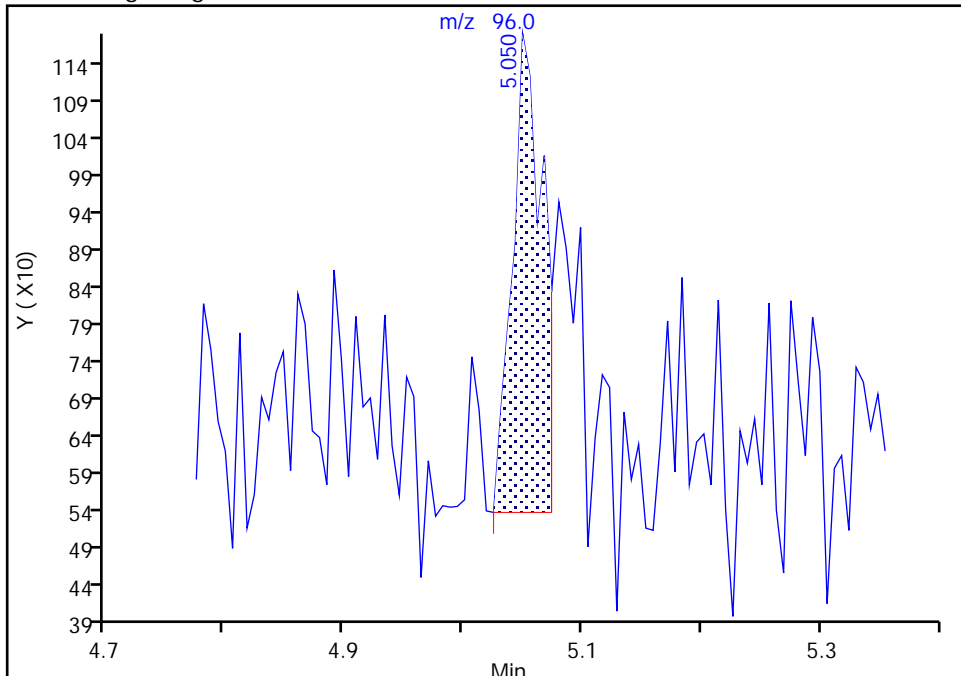
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

27 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

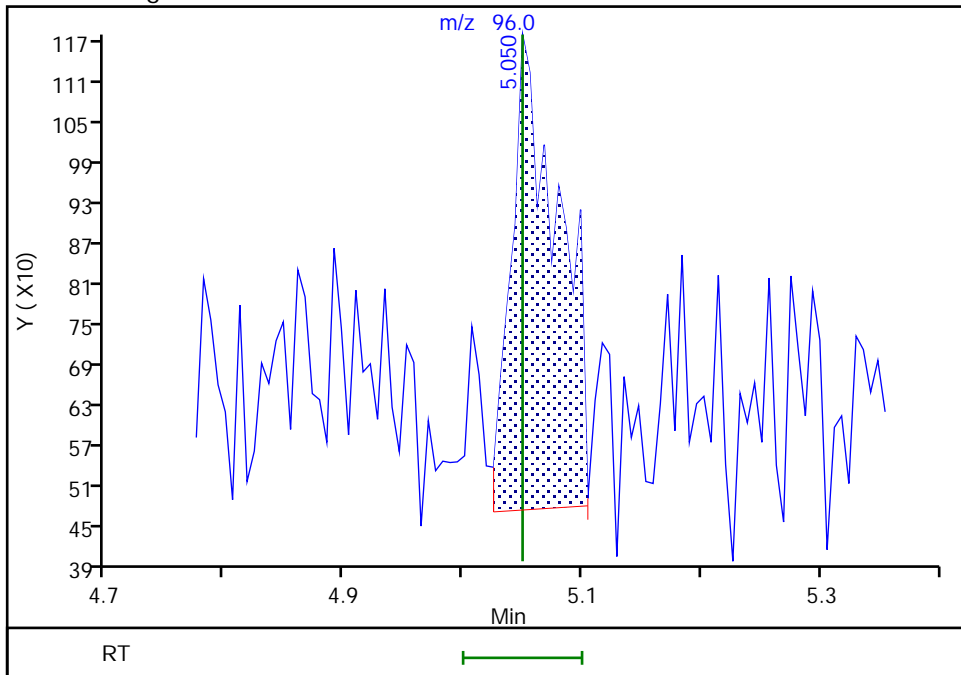
RT: 5.05  
Area: 1143  
Amount: 0.766015  
Amount Units: ug/L

Processing Integration Results



RT: 5.05  
Area: 1954  
Amount: 1.210128  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:54  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

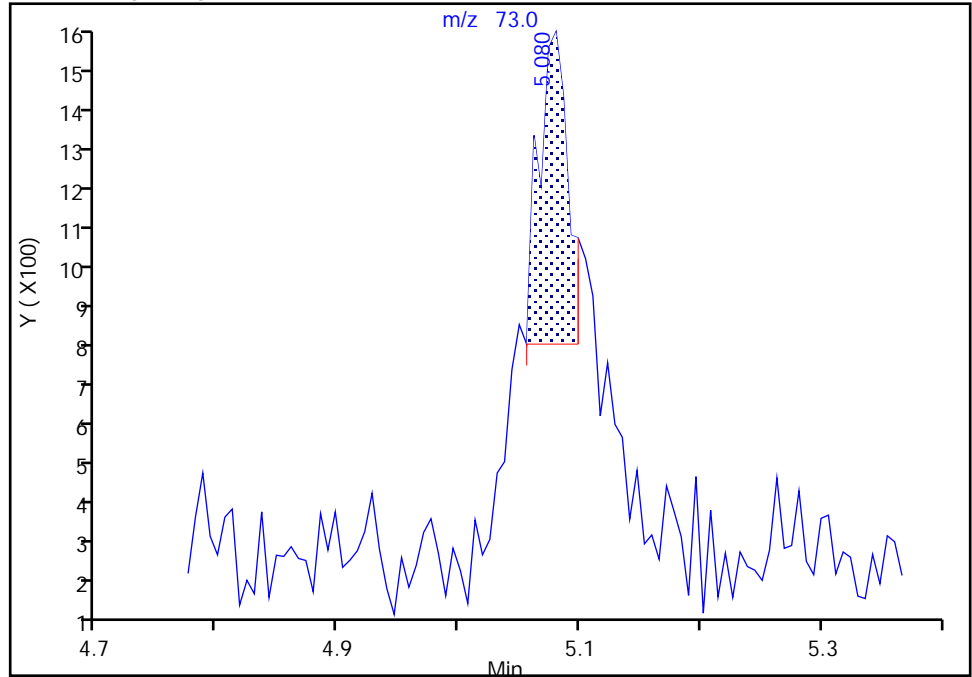
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

28 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

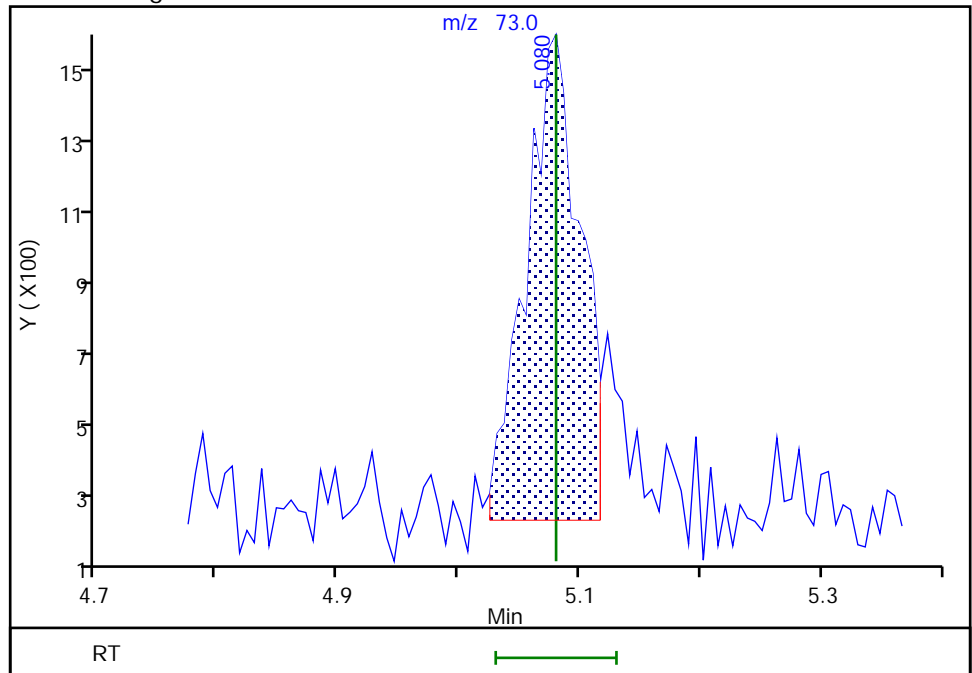
RT: 5.08  
Area: 1294  
Amount: 0.633268  
Amount Units: ug/L

Processing Integration Results



RT: 5.08  
Area: 4194  
Amount: 0.892975  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:14:57  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

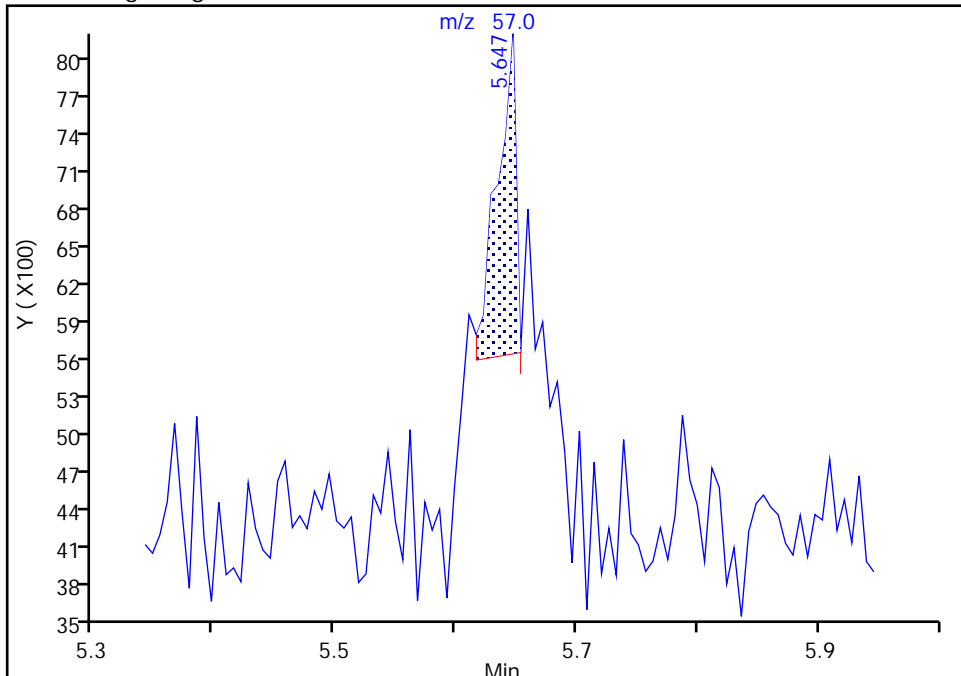
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

34 Hexane, CAS: 110-54-3

Signal: 1

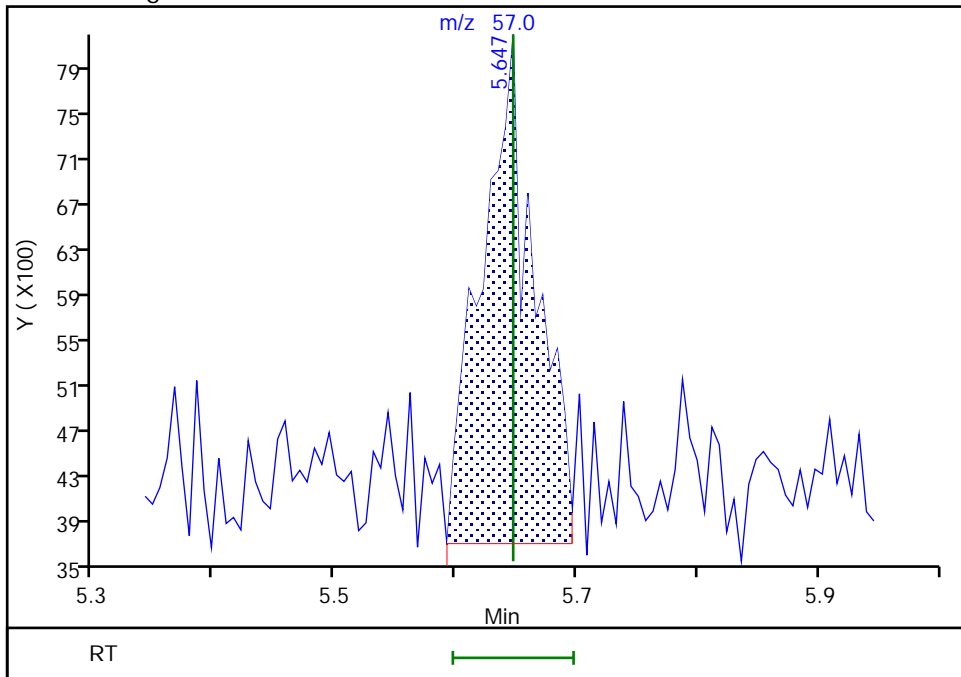
RT: 5.65  
Area: 2728  
Amount: 0.536740  
Amount Units: ug/L

Processing Integration Results



RT: 5.65  
Area: 13592  
Amount: 1.744421  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:15:02  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

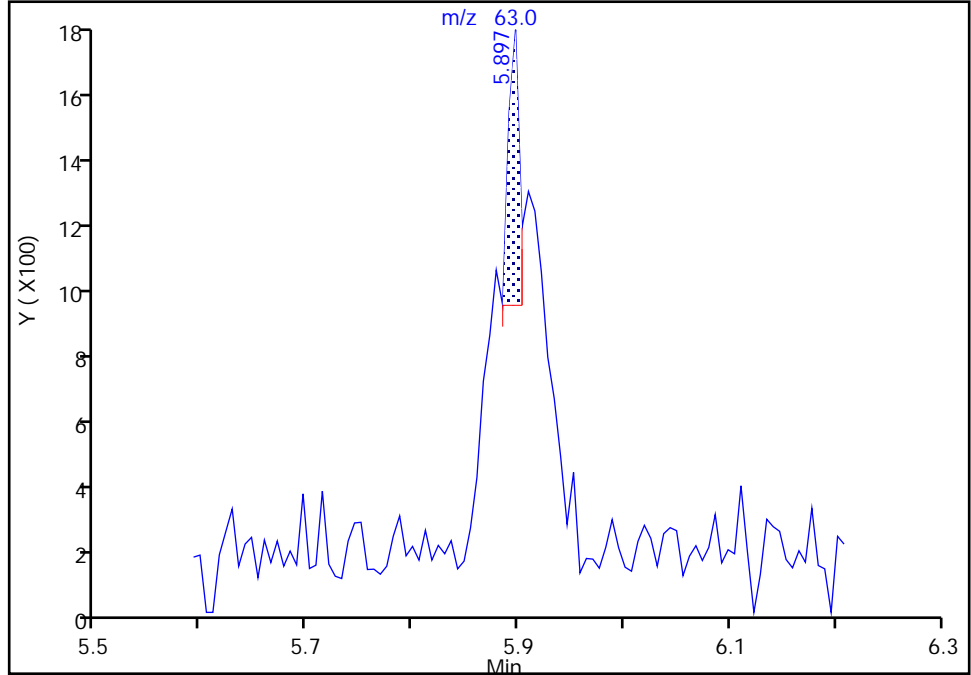
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

30 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

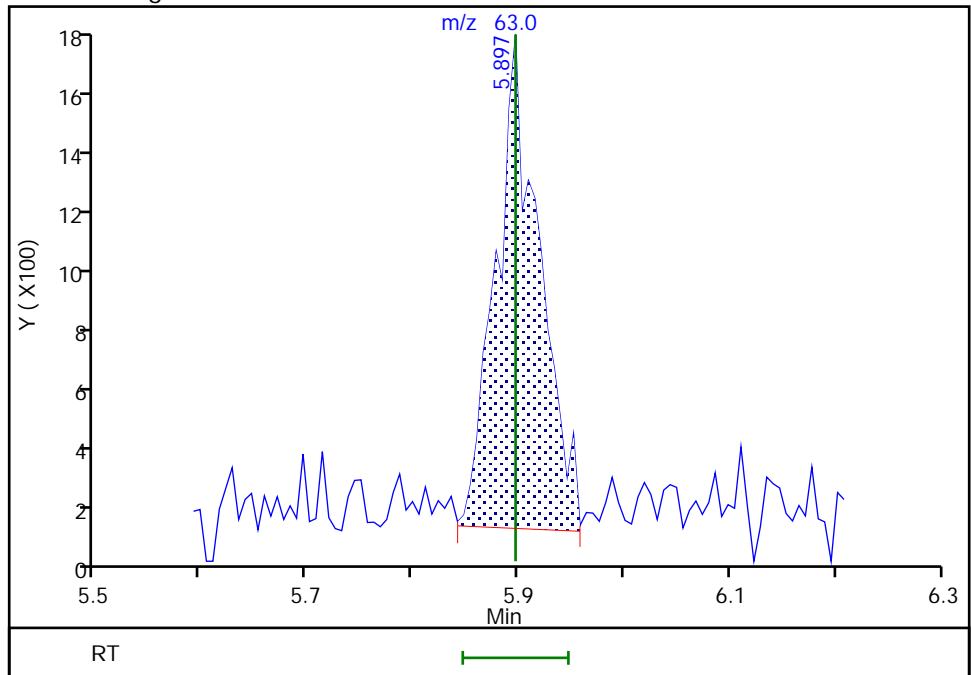
RT: 5.90  
Area: 597  
Amount: 0.189798  
Amount Units: ug/L

Processing Integration Results



RT: 5.90  
Area: 4666  
Amount: 1.233640  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:15:06  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

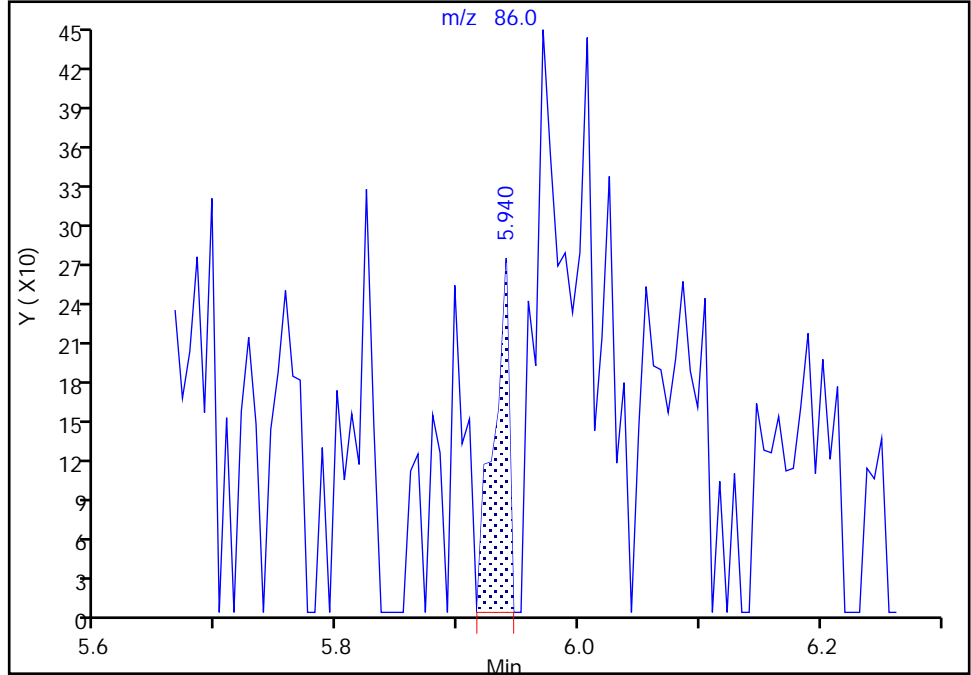
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

31 Vinyl acetate, CAS: 108-05-4

Signal: 1

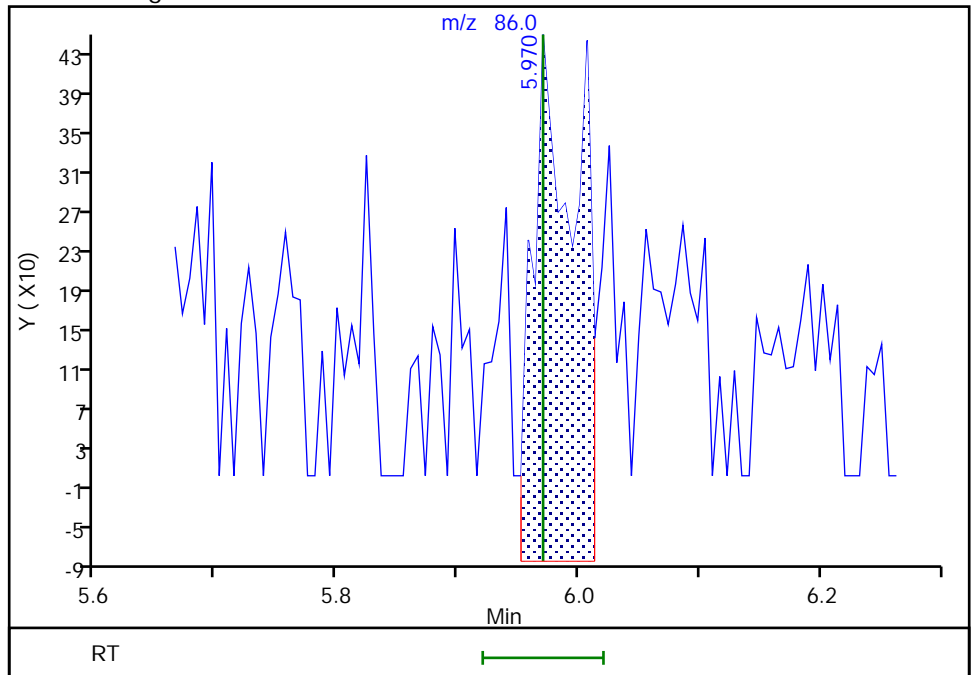
RT: 5.94  
Area: 241  
Amount: 0.762151  
Amount Units: ug/L

Processing Integration Results



RT: 5.97  
Area: 1398  
Amount: 3.860632  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:15:09  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

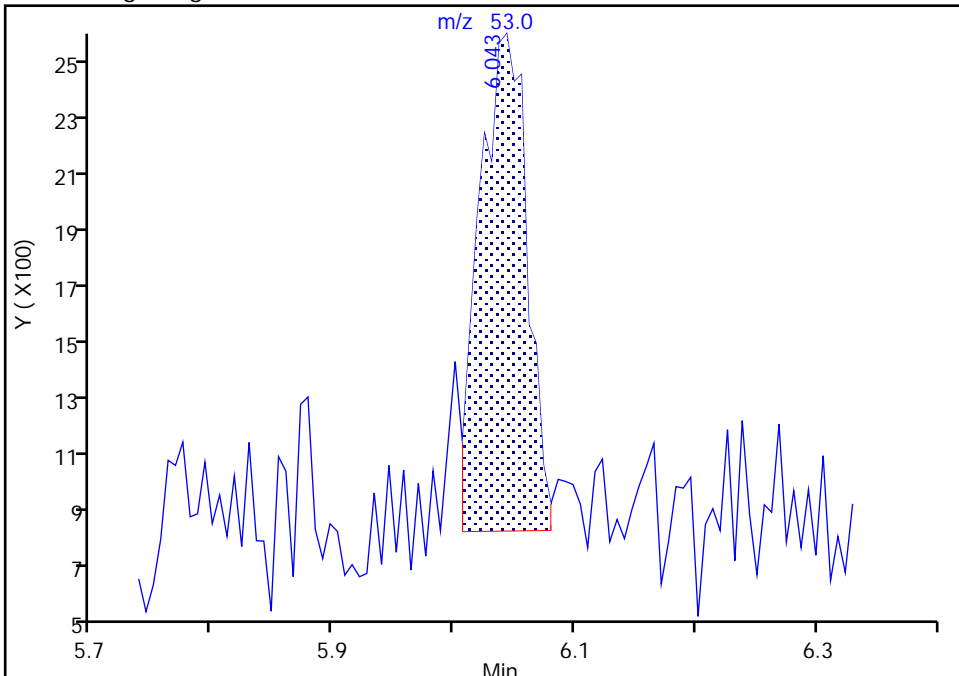
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

32 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

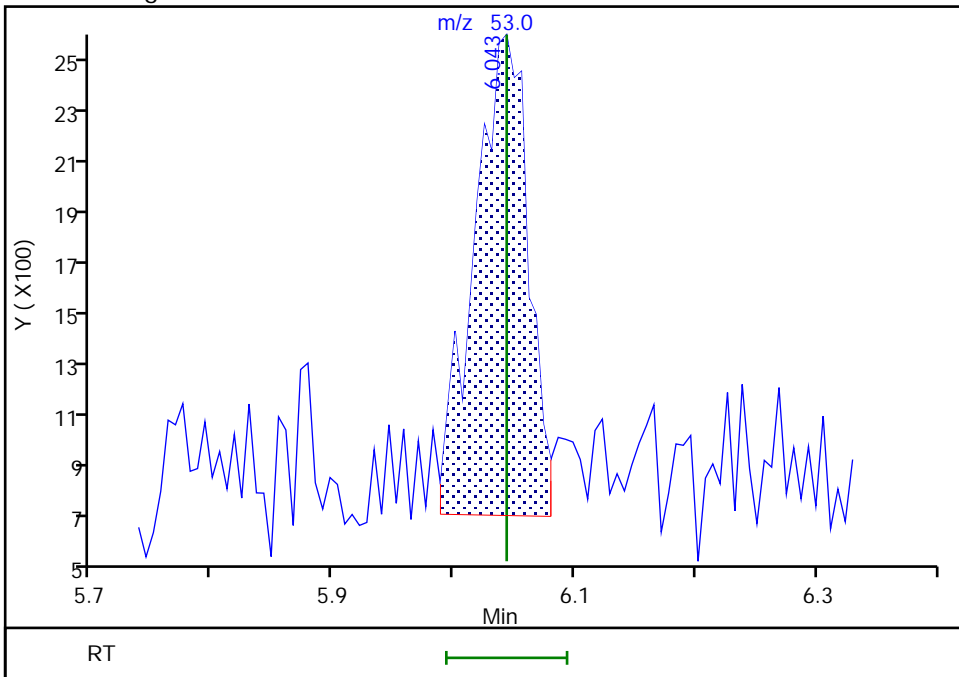
RT: 6.04  
Area: 4525  
Amount: 1.121108  
Amount Units: ug/L

Processing Integration Results



RT: 6.04  
Area: 5500  
Amount: 1.167400  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:15:13  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

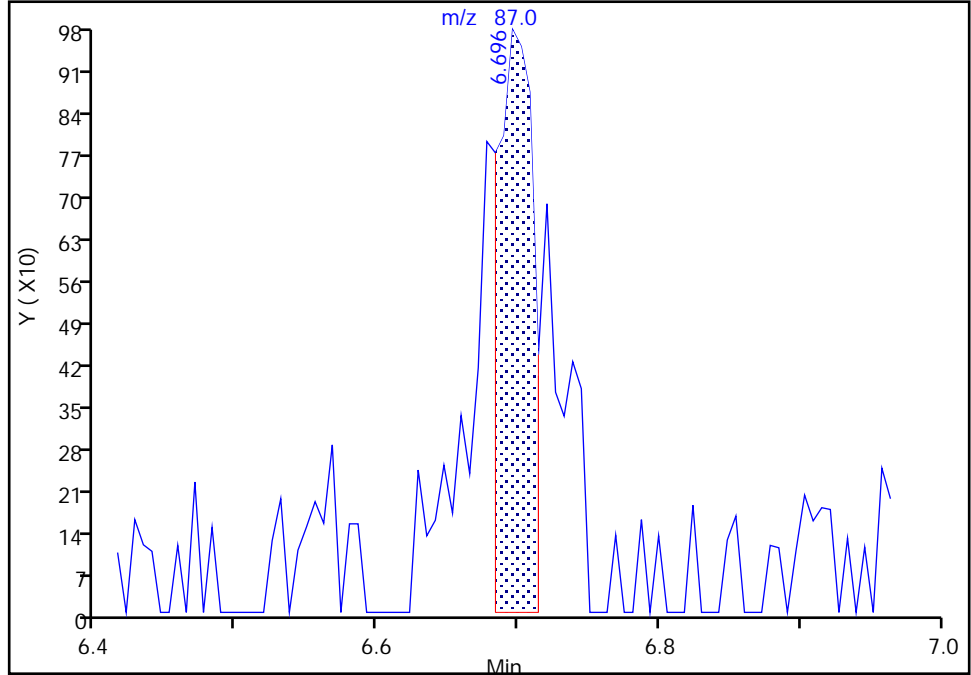
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

41 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

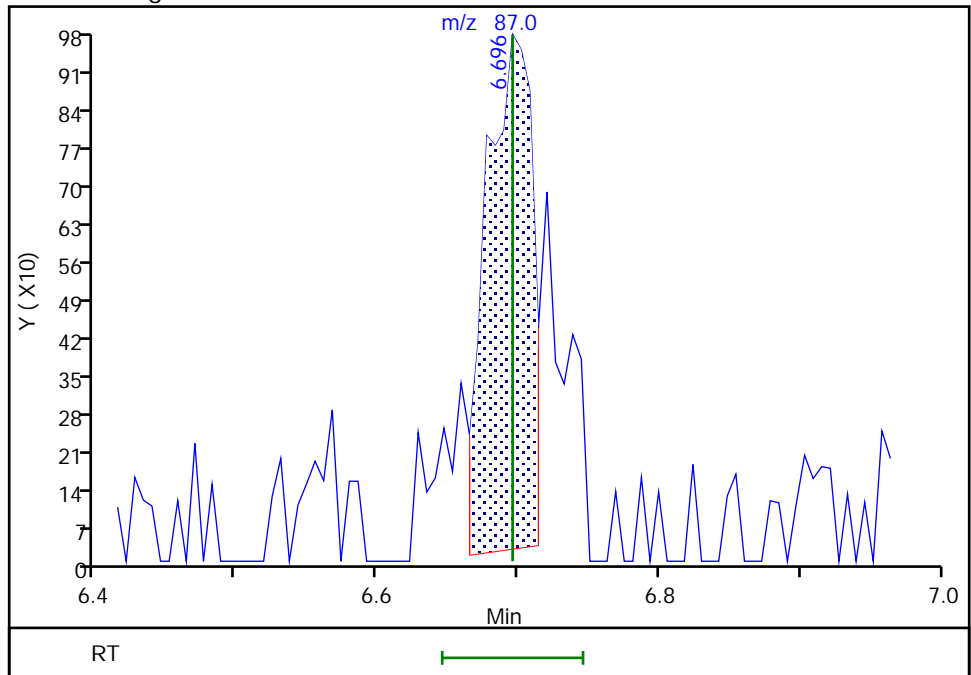
RT: 6.70  
Area: 1751  
Amount: 1.028660  
Amount Units: ug/L

Processing Integration Results



RT: 6.70  
Area: 2208  
Amount: 1.032849  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:15:17  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

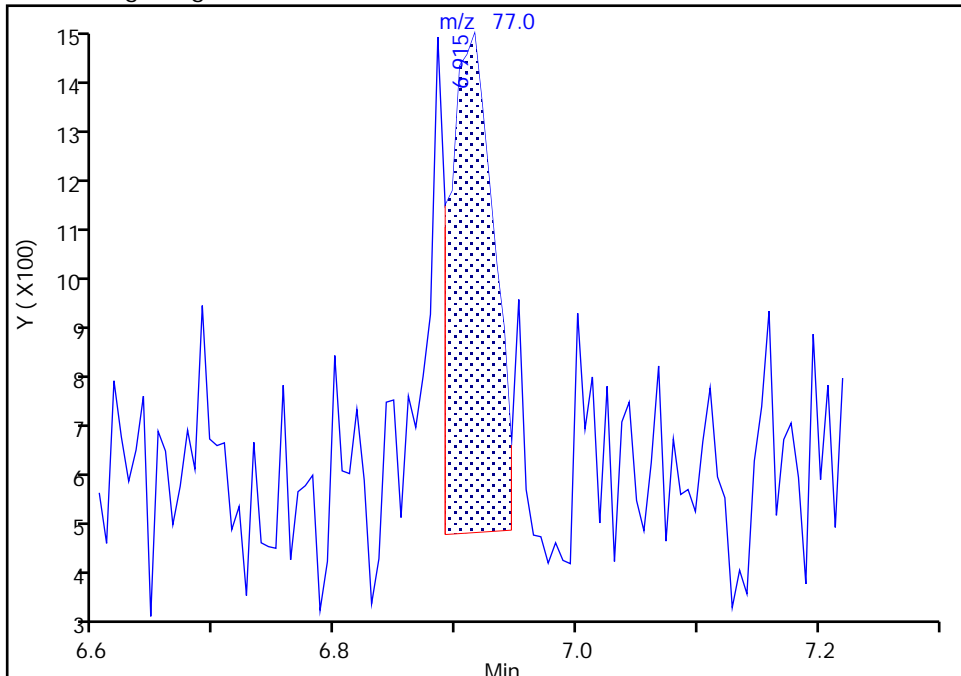
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

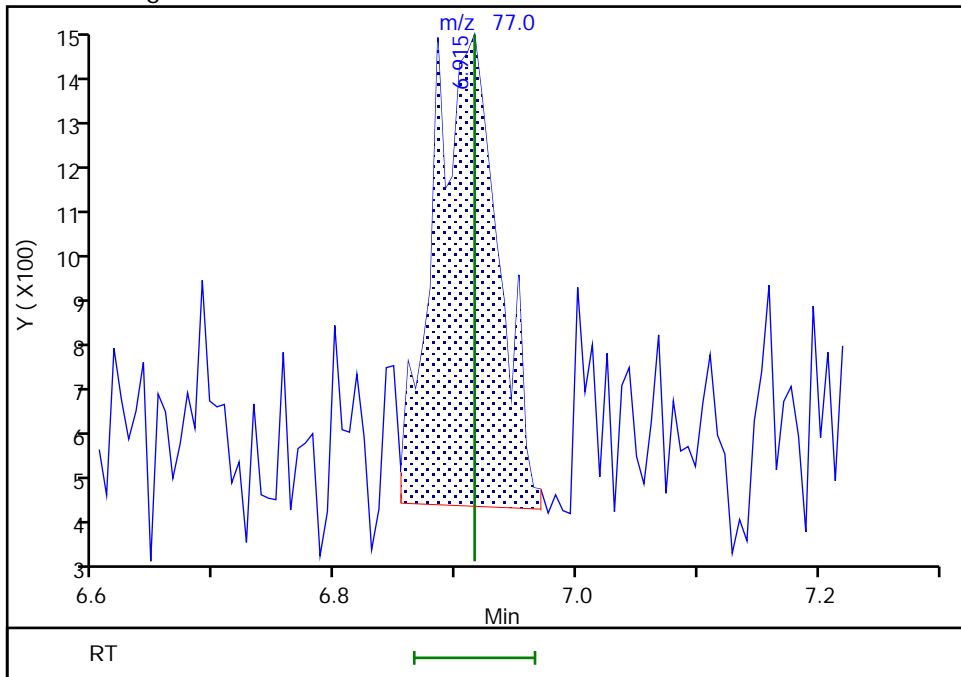
RT: 6.92  
Area: 2299  
Amount: 1.052672  
Amount Units: ug/L

Processing Integration Results



RT: 6.92  
Area: 3535  
Amount: 1.398676  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:15:21  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

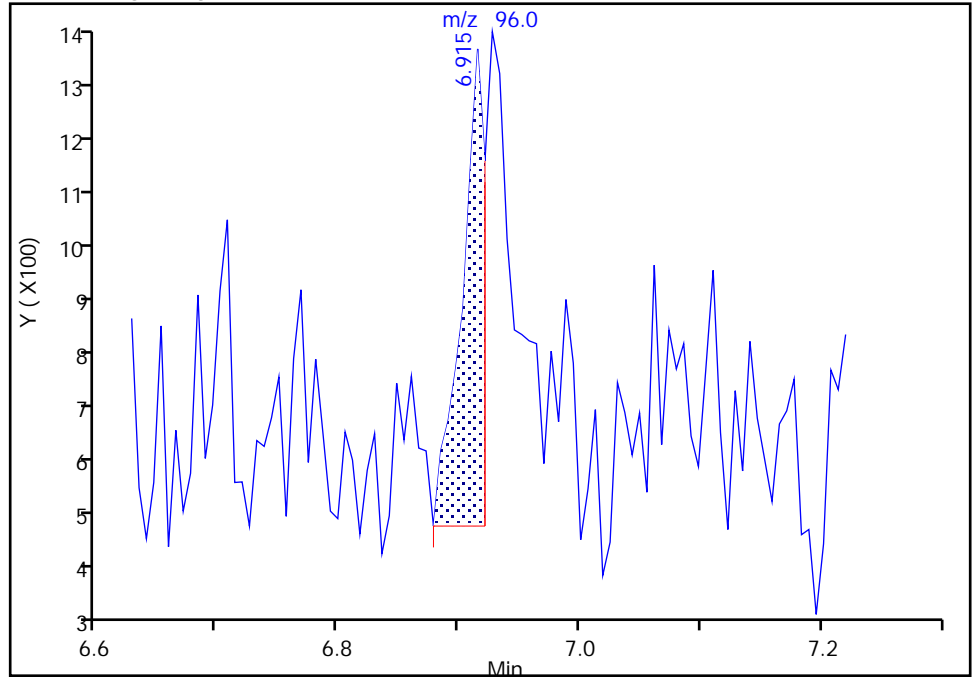
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

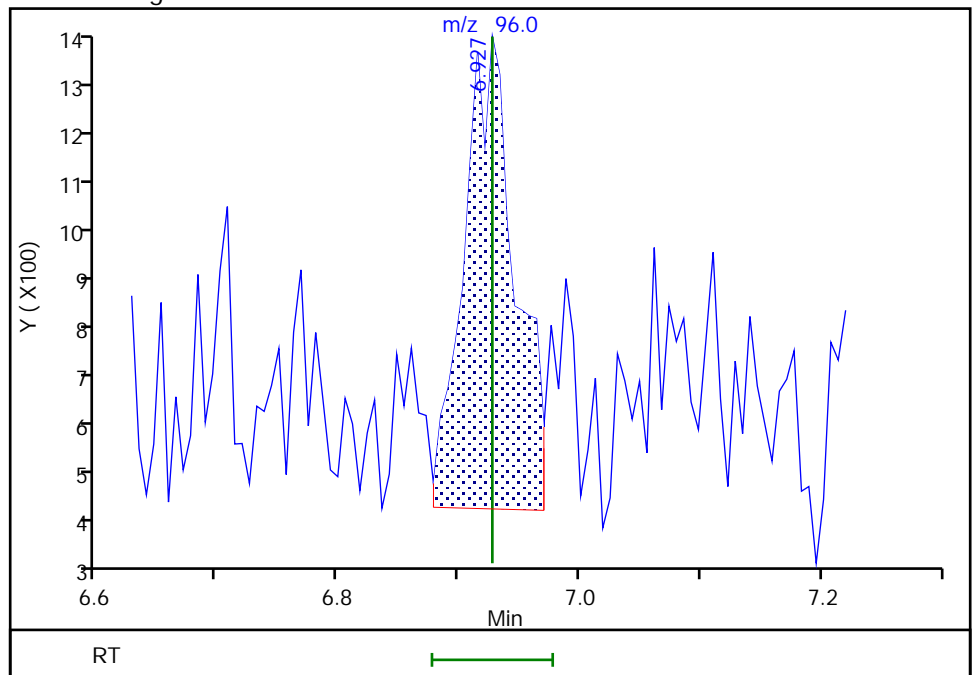
RT: 6.92  
Area: 1118  
Amount: 0.821488  
Amount Units: ug/L

Processing Integration Results



RT: 6.93  
Area: 2714  
Amount: 1.497074  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:15:25  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

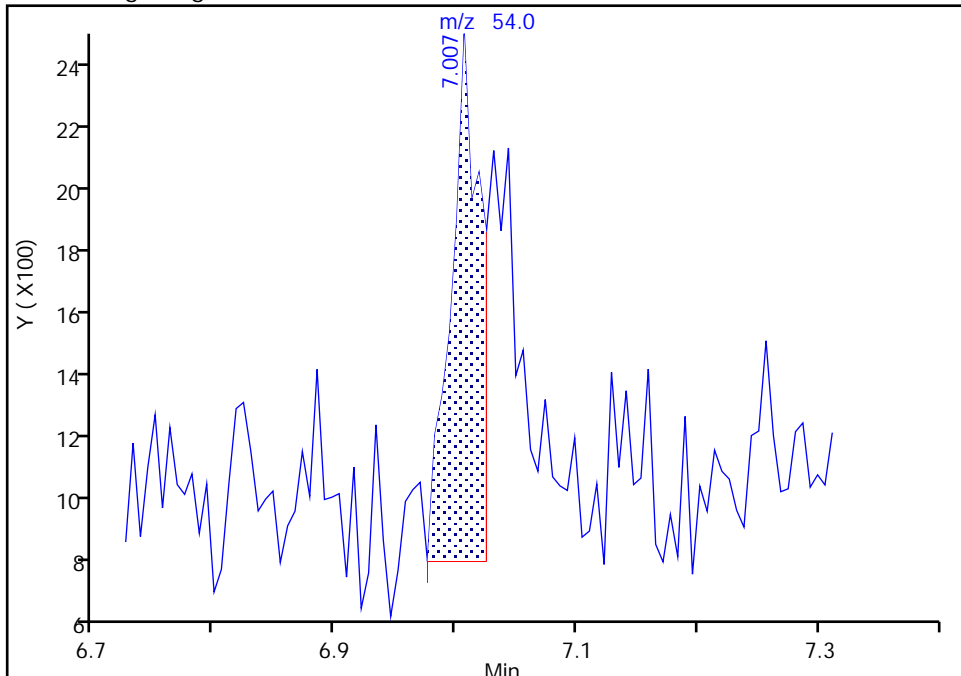
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

29 Propionitrile, CAS: 107-12-0

Signal: 1

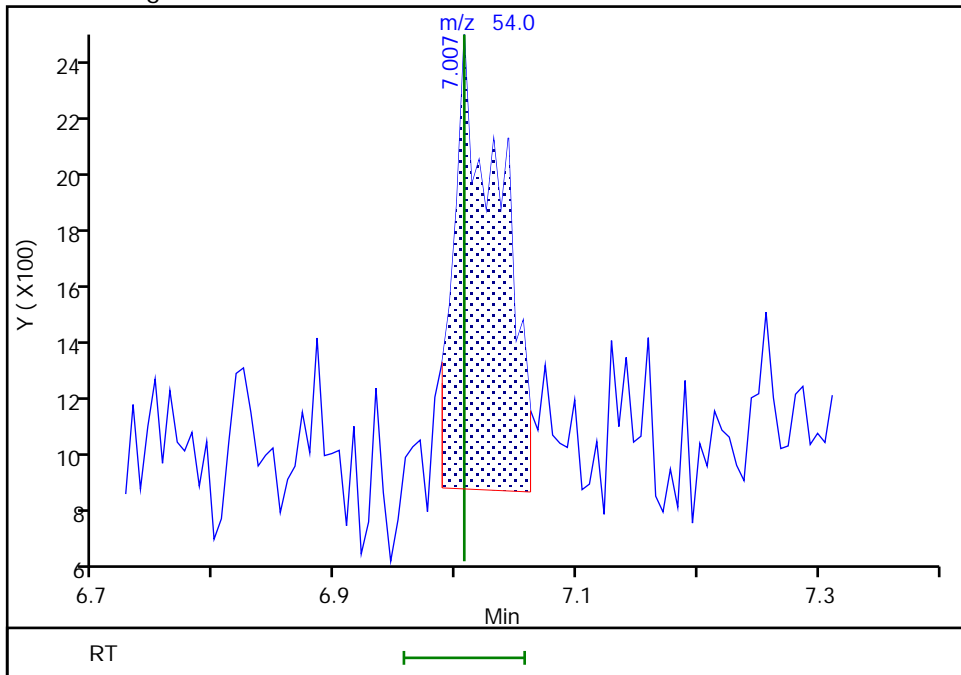
RT: 7.01  
Area: 2786  
Amount: 11.792941  
Amount Units: ug/L

Processing Integration Results



RT: 7.01  
Area: 4166  
Amount: 13.209103  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:37:17  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Seattle

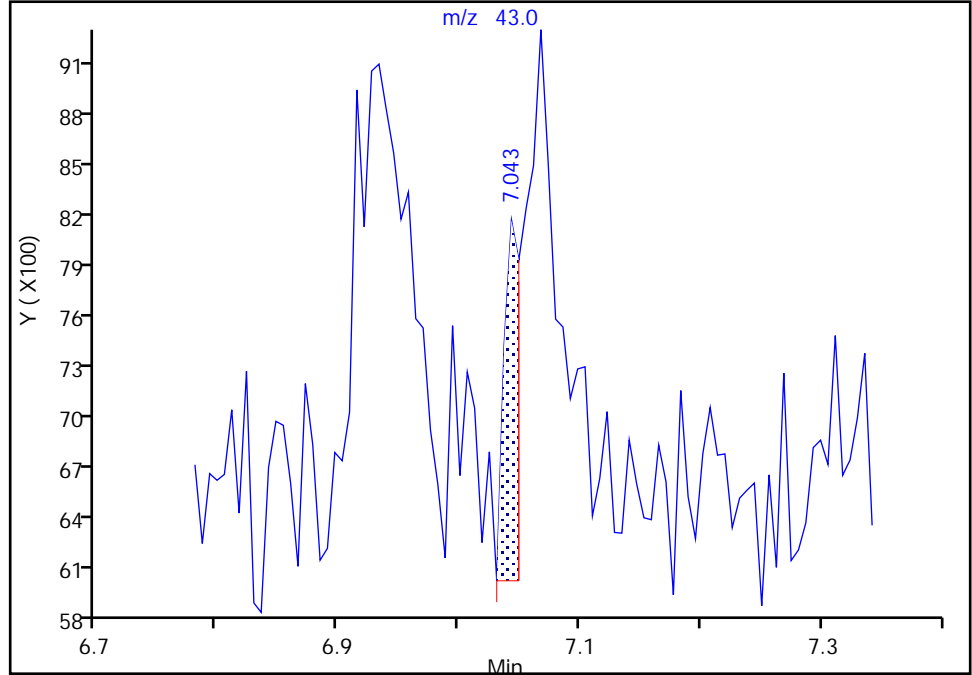
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

38 Ethyl acetate, CAS: 141-78-6

Signal: 1

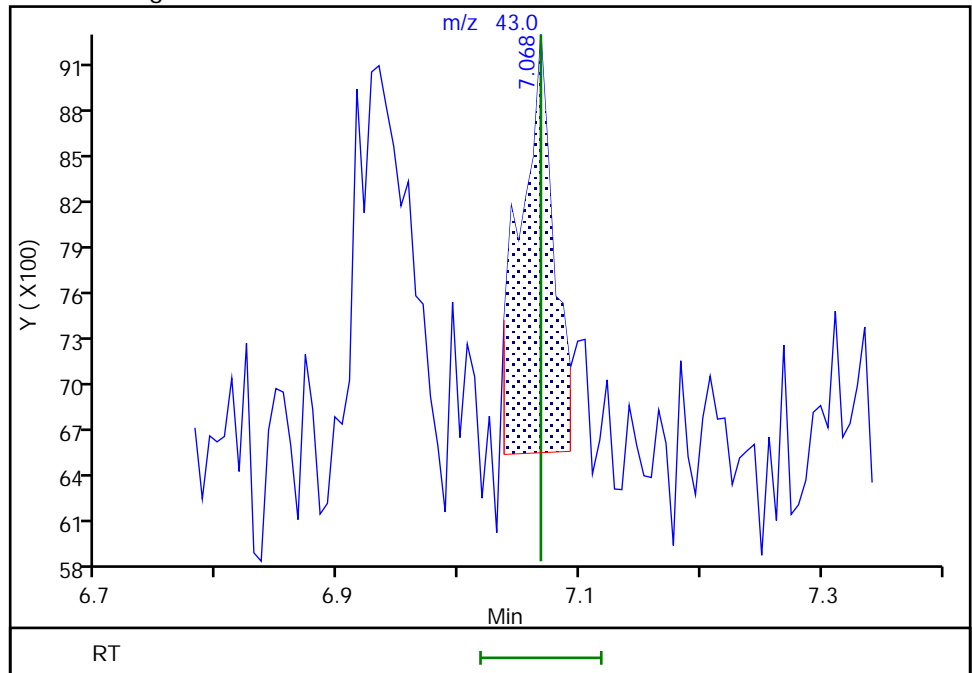
RT: 7.04  
Area: 1923  
Amount: 0.802487  
Amount Units: ug/L

Processing Integration Results



RT: 7.07  
Area: 5214  
Amount: 1.974503  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:46:27  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

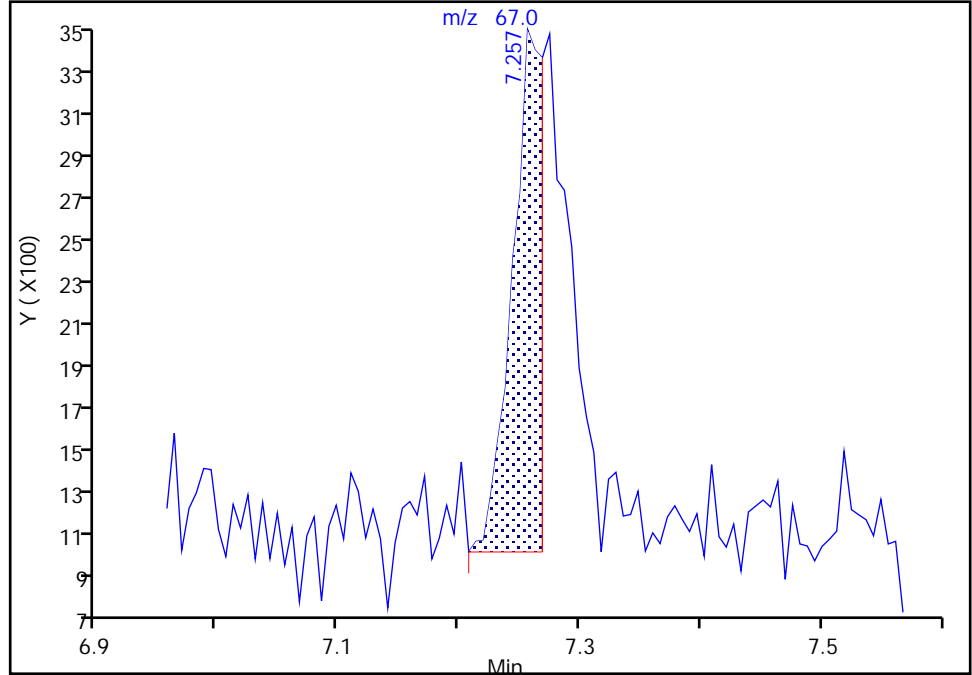
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

36 Methacrylonitrile, CAS: 126-98-7

Signal: 1

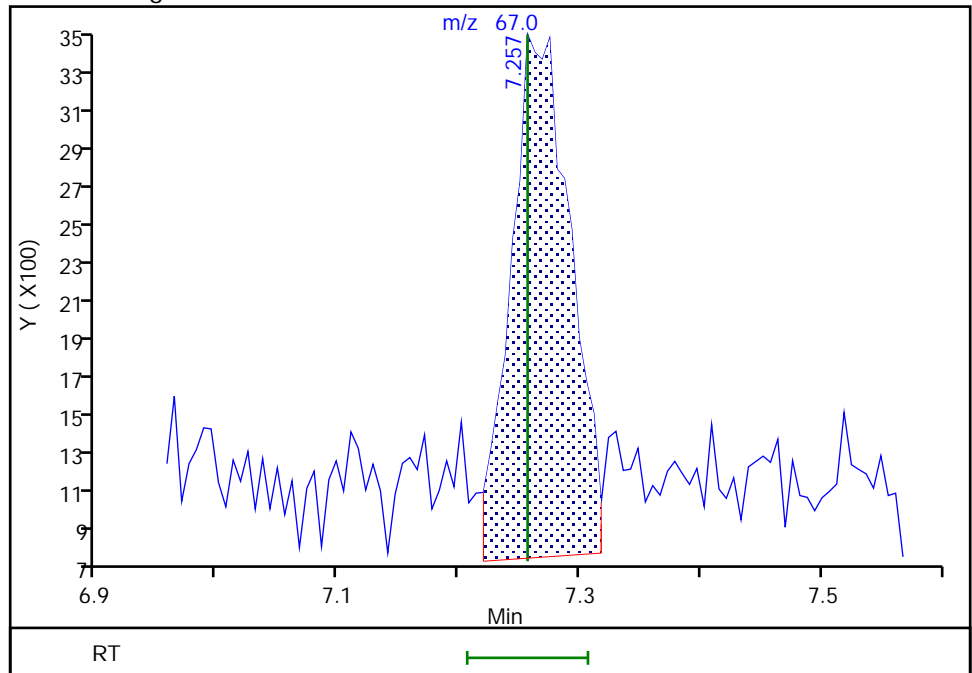
RT: 7.26  
Area: 4168  
Amount: 8.111426  
Amount Units: ug/L

Processing Integration Results



RT: 7.26  
Area: 9105  
Amount: 13.346436  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:15:42  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

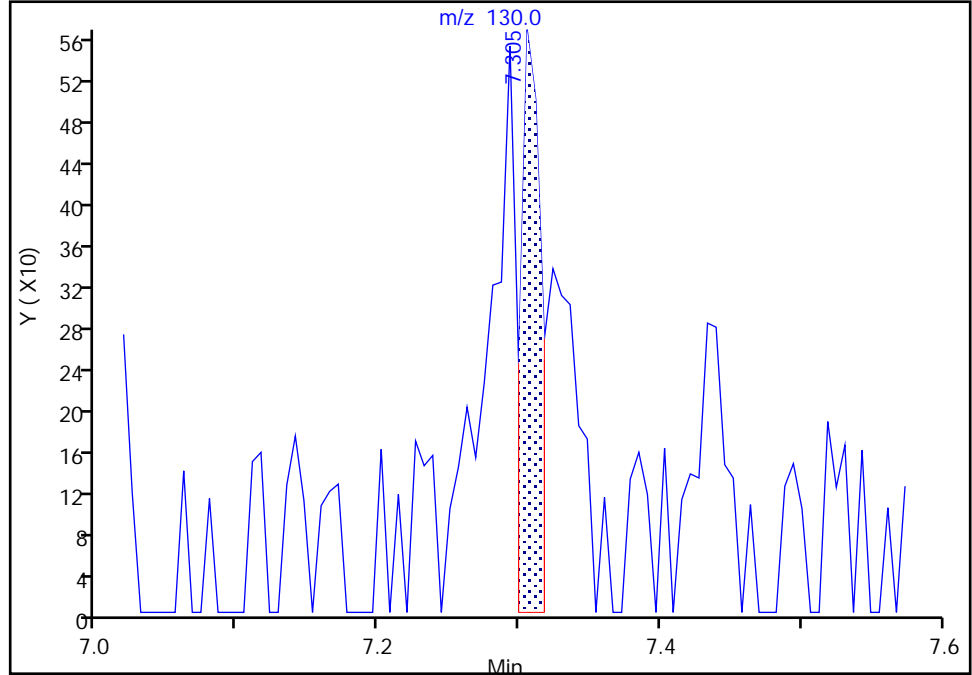
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

**39 Chlorobromomethane, CAS: 74-97-5**

Signal: 1

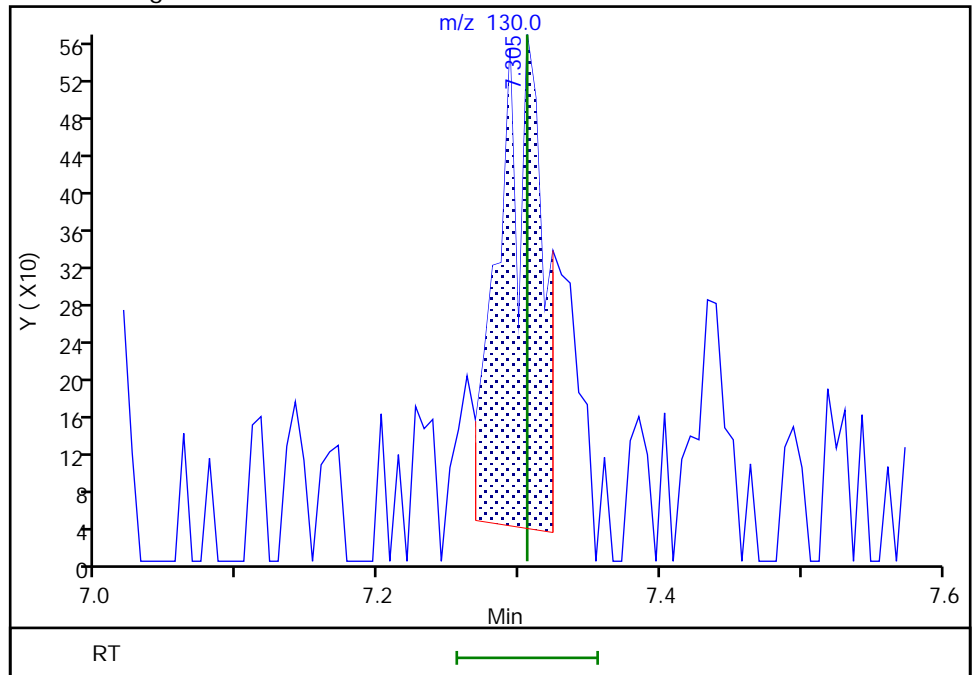
RT: 7.31  
Area: 577  
Amount: 0.605515  
Amount Units: ug/L

Processing Integration Results



RT: 7.31  
Area: 1136  
Amount: 1.056495  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:47:22  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

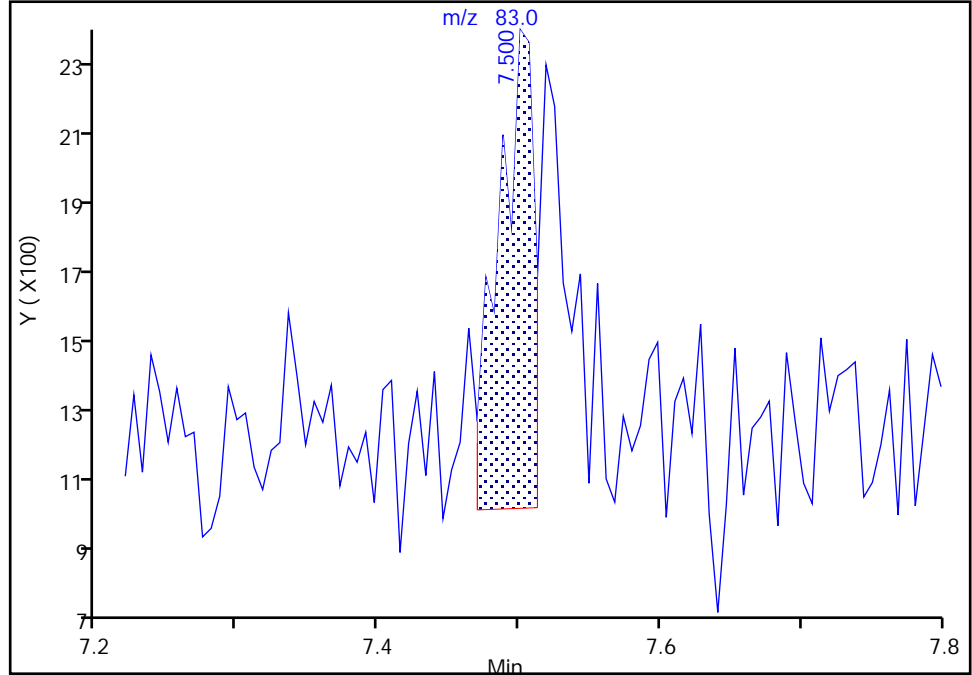
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

40 Chloroform, CAS: 67-66-3

Signal: 1

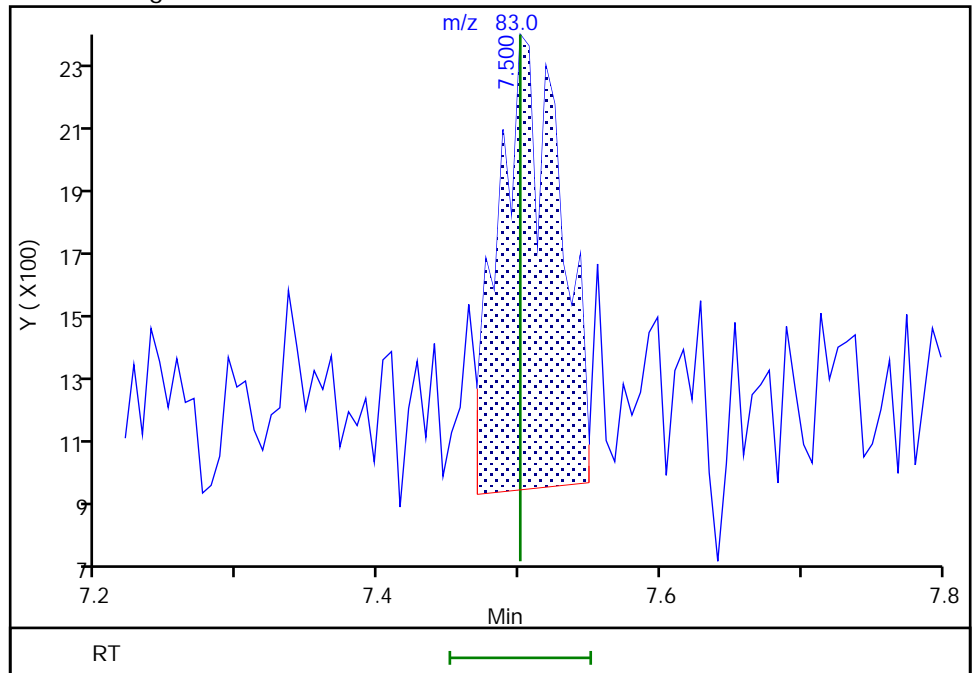
RT: 7.50  
Area: 2310  
Amount: 0.862631  
Amount Units: ug/L

Processing Integration Results



RT: 7.50  
Area: 4124  
Amount: 1.275009  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:47:38  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

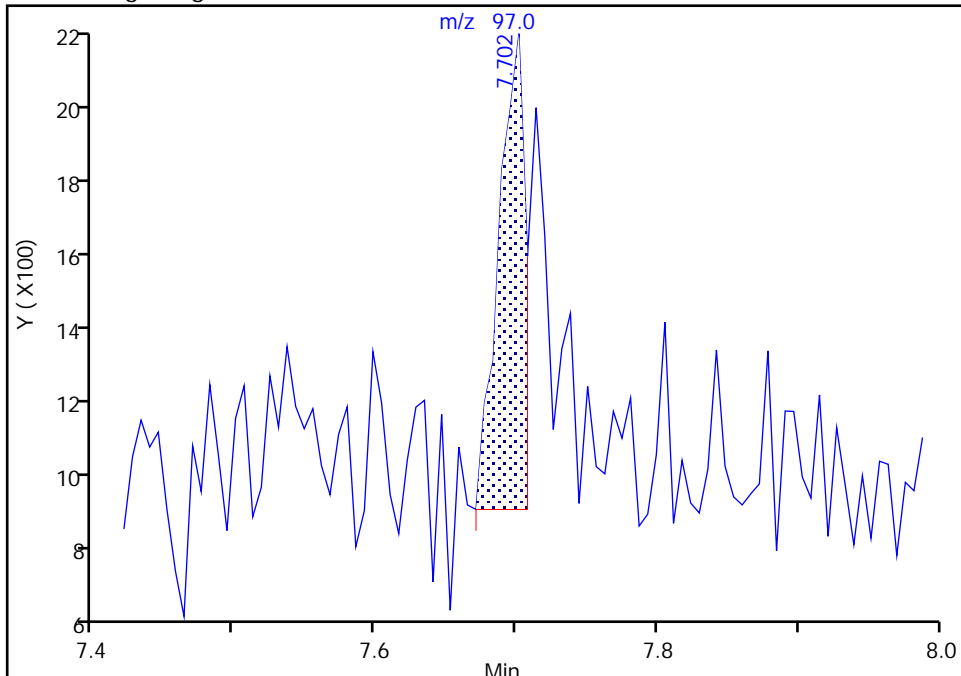
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

48 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

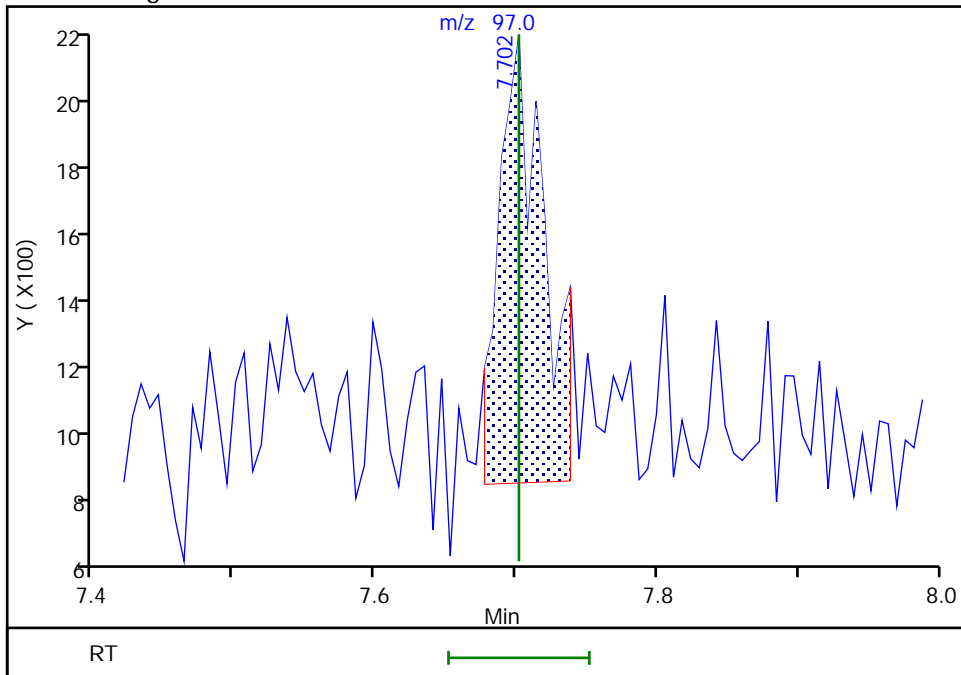
RT: 7.70  
Area: 1647  
Amount: 0.761418  
Amount Units: ug/L

Processing Integration Results



RT: 7.70  
Area: 2921  
Amount: 1.073829  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:48:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

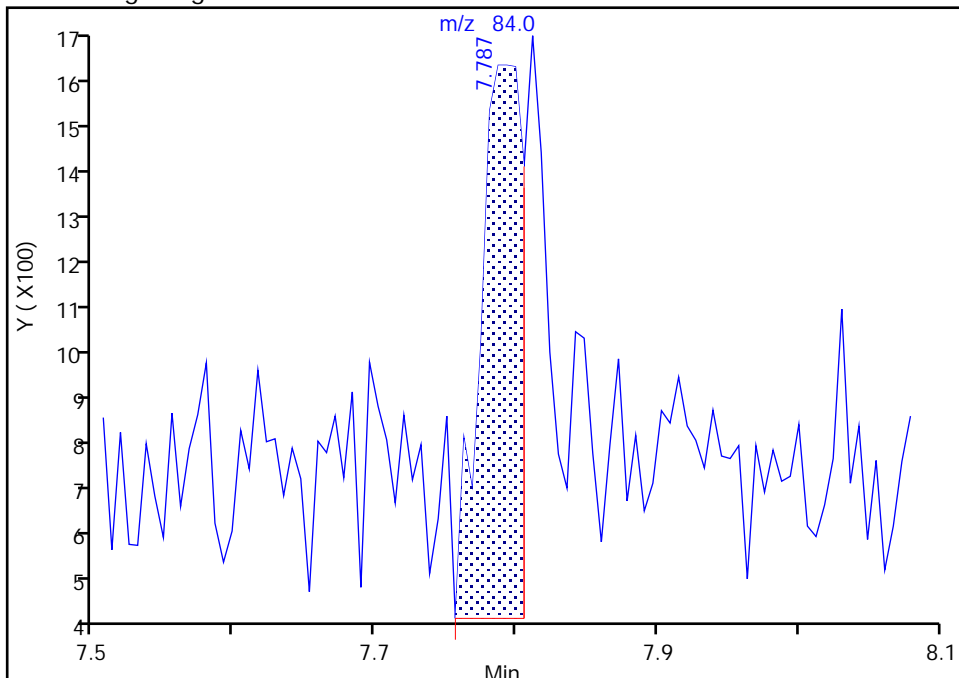
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

51 Cyclohexane, CAS: 110-82-7

Signal: 1

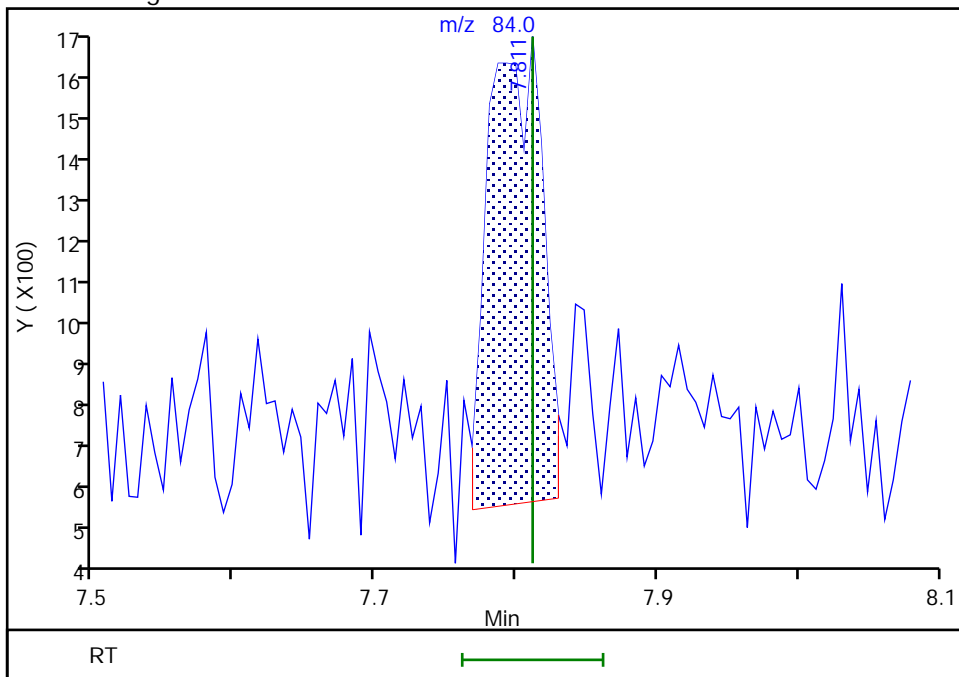
RT: 7.79  
Area: 2374  
Amount: 1.055692  
Amount Units: ug/L

Processing Integration Results



RT: 7.81  
Area: 2803  
Amount: 1.206619  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:48:08  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

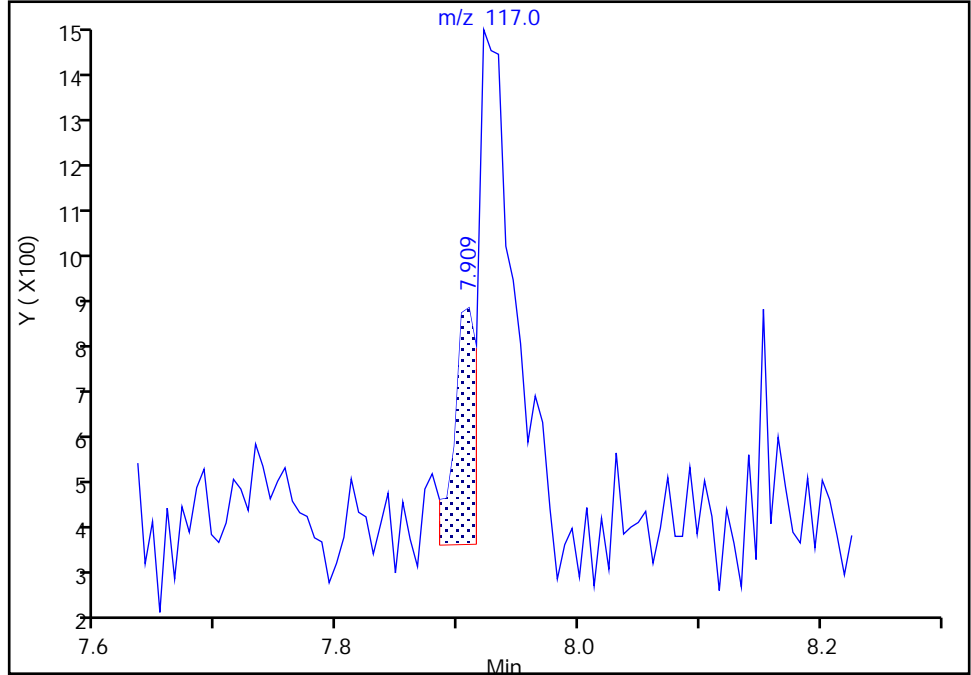
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

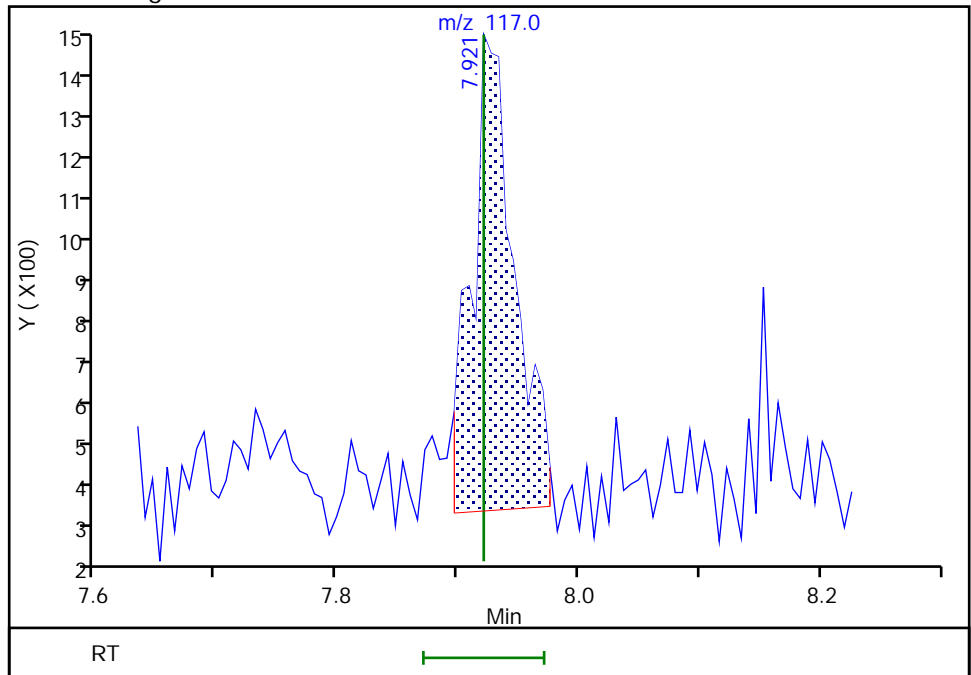
RT: 7.91  
Area: 675  
Amount: 0.309743  
Amount Units: ug/L

Processing Integration Results



RT: 7.92  
Area: 2830  
Amount: 0.964573  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:48:14  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

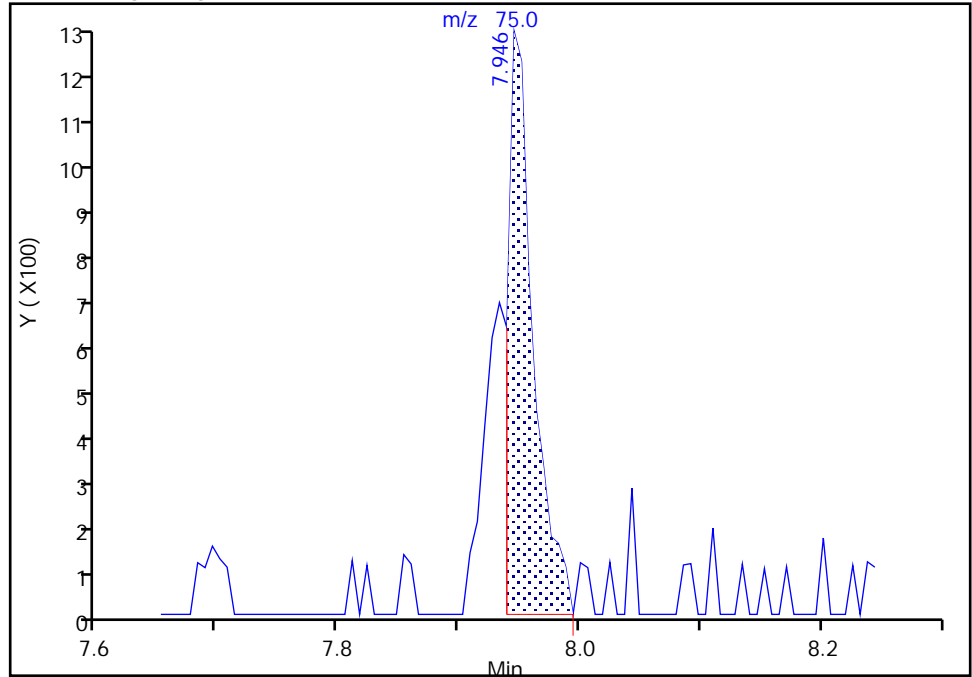
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

50 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

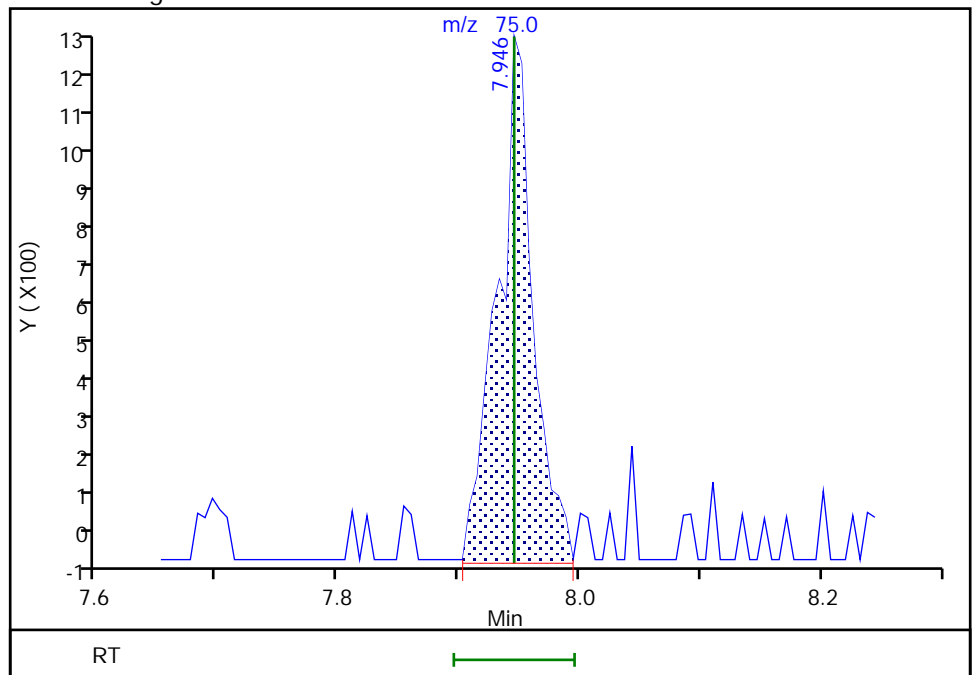
RT: 7.95  
Area: 1877  
Amount: 0.784900  
Amount Units: ug/L

Processing Integration Results



RT: 7.95  
Area: 2688  
Amount: 1.083217  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:16:05  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

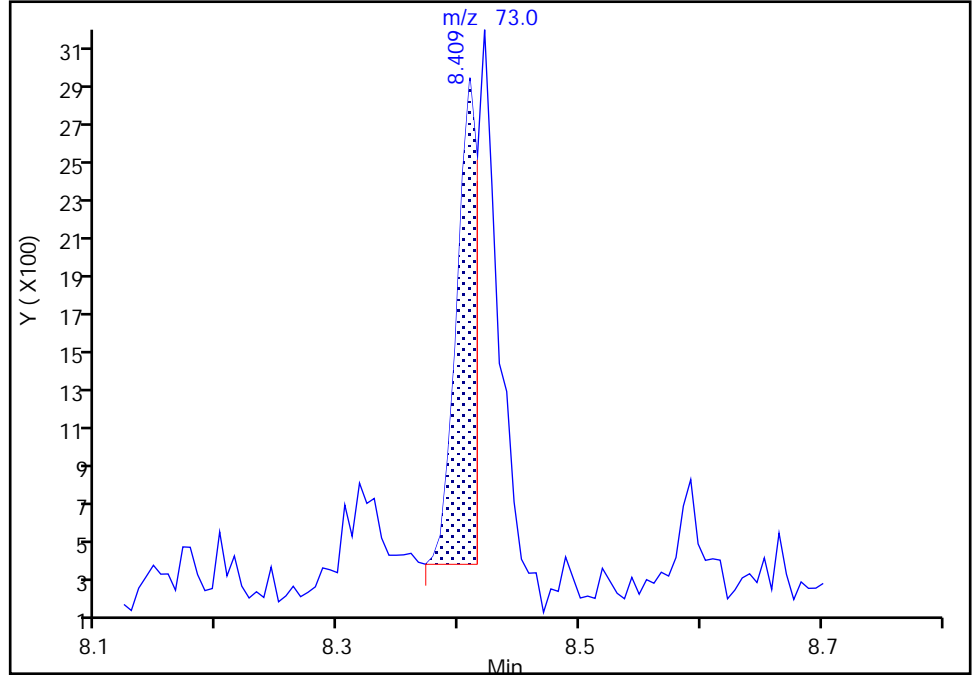
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

54 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

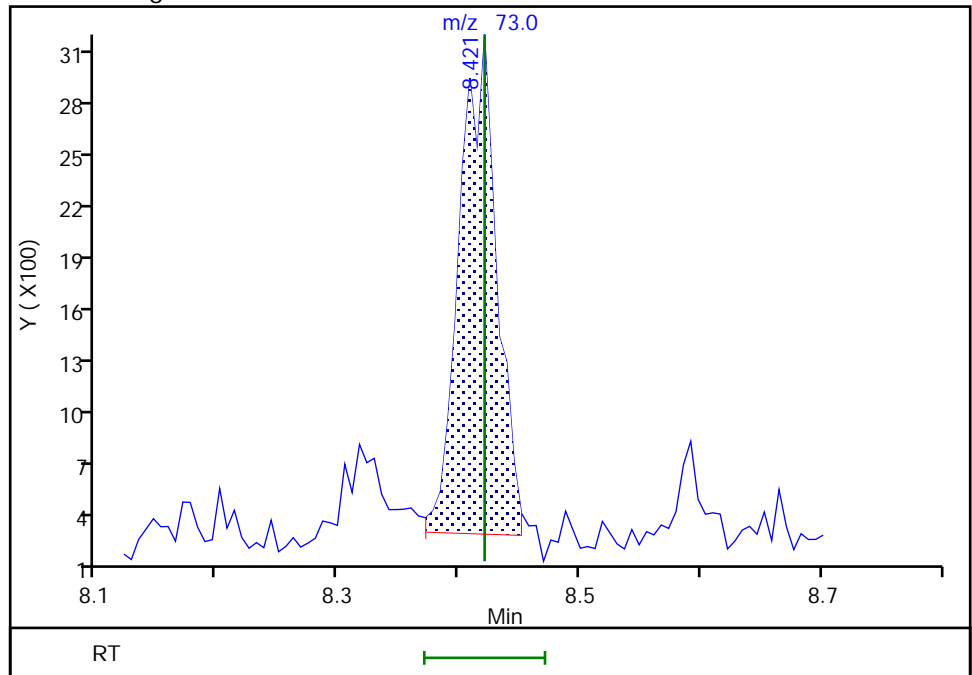
RT: 8.41  
Area: 3173  
Amount: 0.674240  
Amount Units: ug/L

Processing Integration Results



RT: 8.42  
Area: 6267  
Amount: 1.258165  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:16:13  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

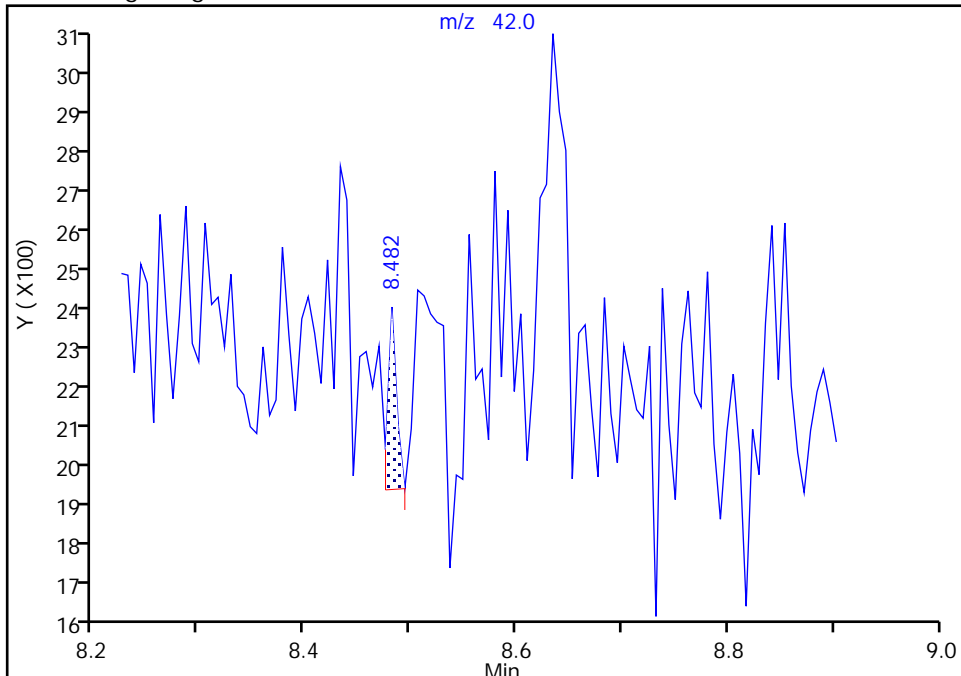
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

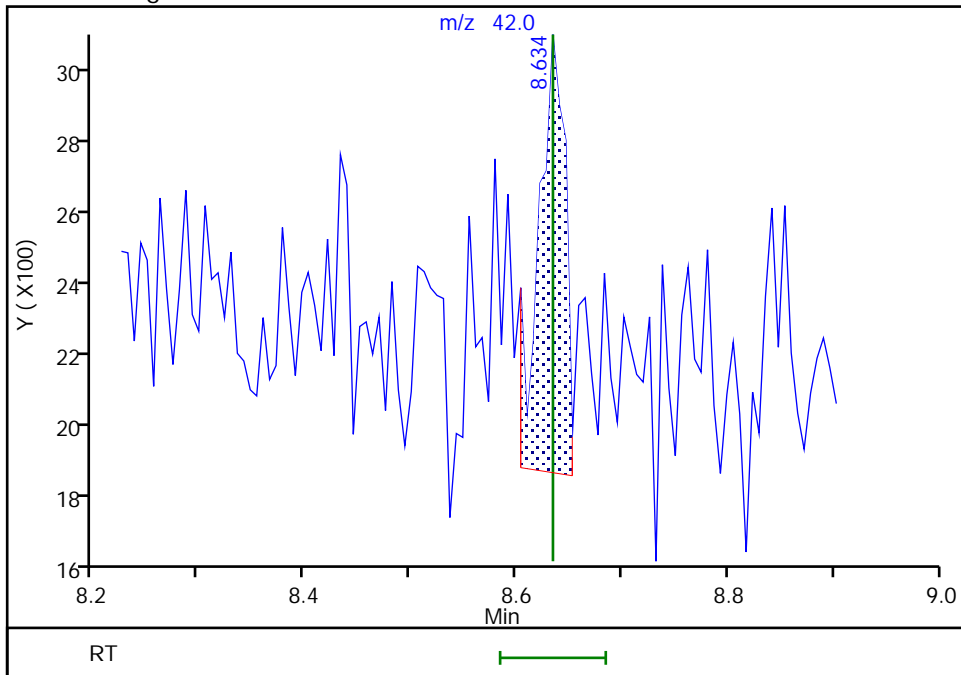
RT: 8.48  
Area: 245  
Amount: 1.947933  
Amount Units: ug/L

Processing Integration Results



RT: 8.63  
Area: 2029  
Amount: 2.023863  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:09:22  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

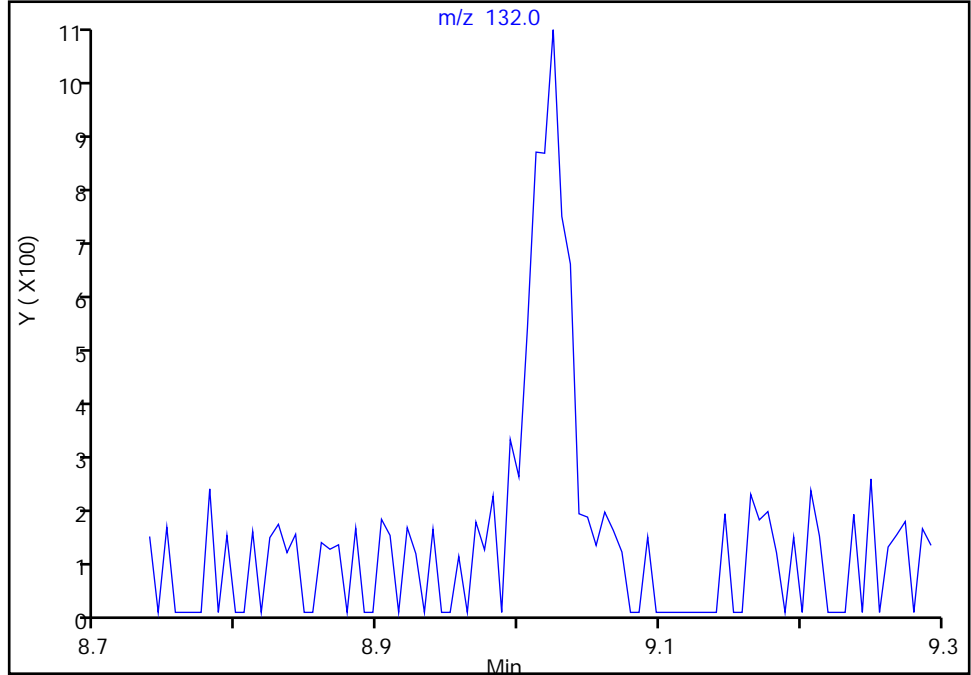
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

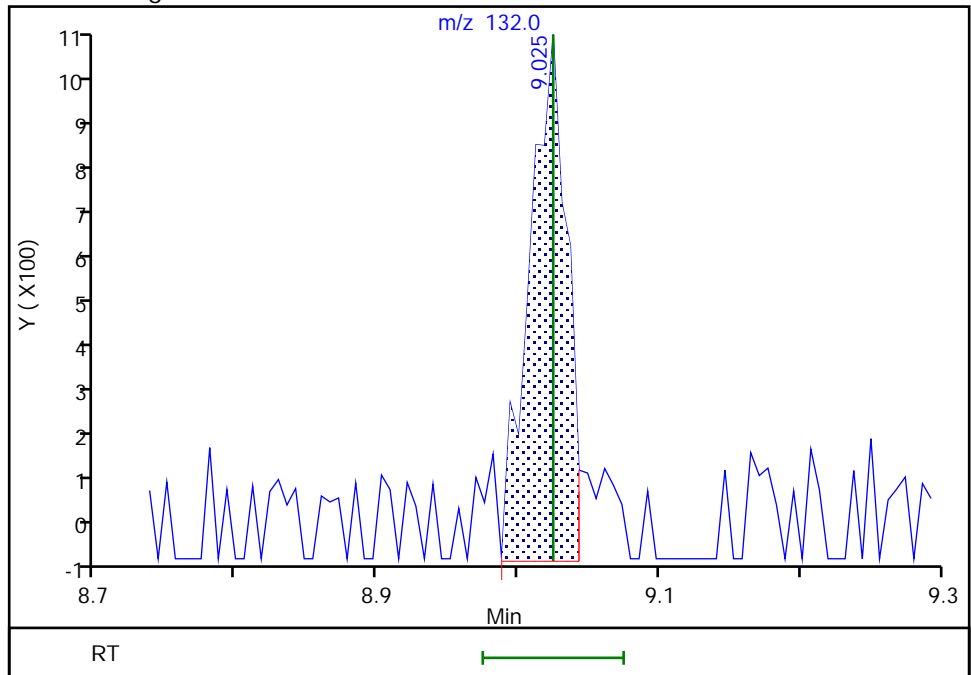
Not Detected  
Expected RT: 9.02

Processing Integration Results



Manual Integration Results

RT: 9.02  
Area: 1959  
Amount: 1.053794  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 14:16:22  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

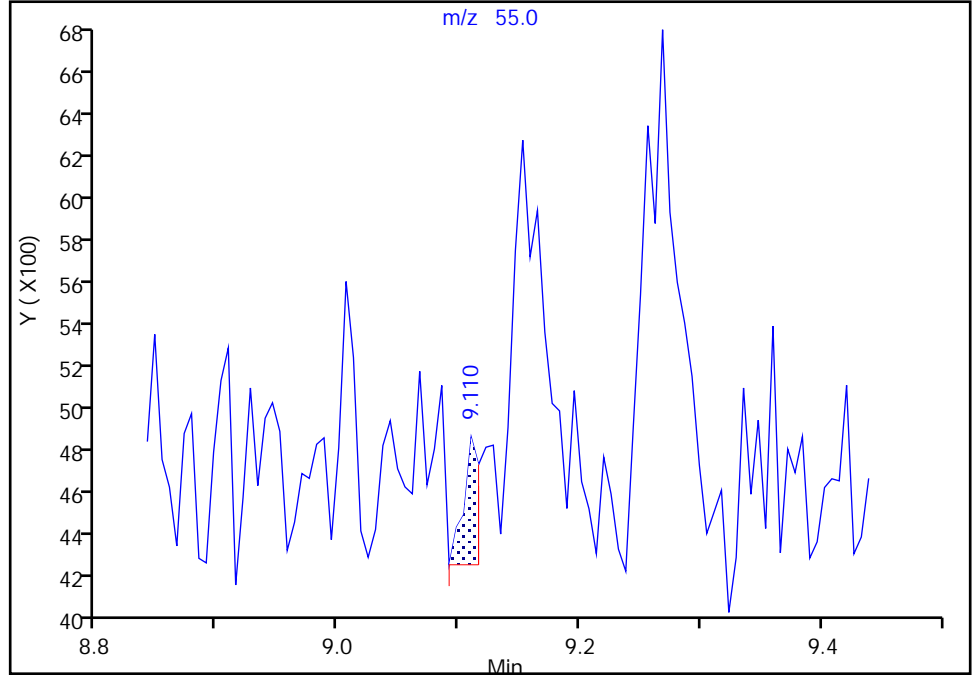
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

57 Ethyl acrylate, CAS: 140-88-5

Signal: 1

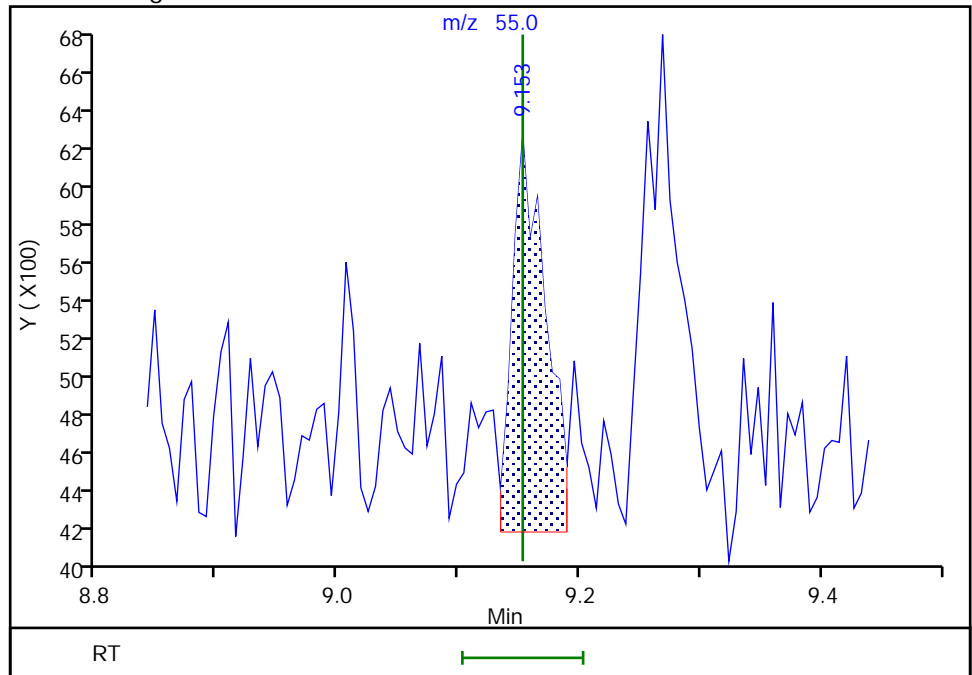
RT: 9.11  
Area: 553  
Amount: 0.168345  
Amount Units: ug/L

Processing Integration Results



RT: 9.15  
Area: 4075  
Amount: 1.147092  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:16:26  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

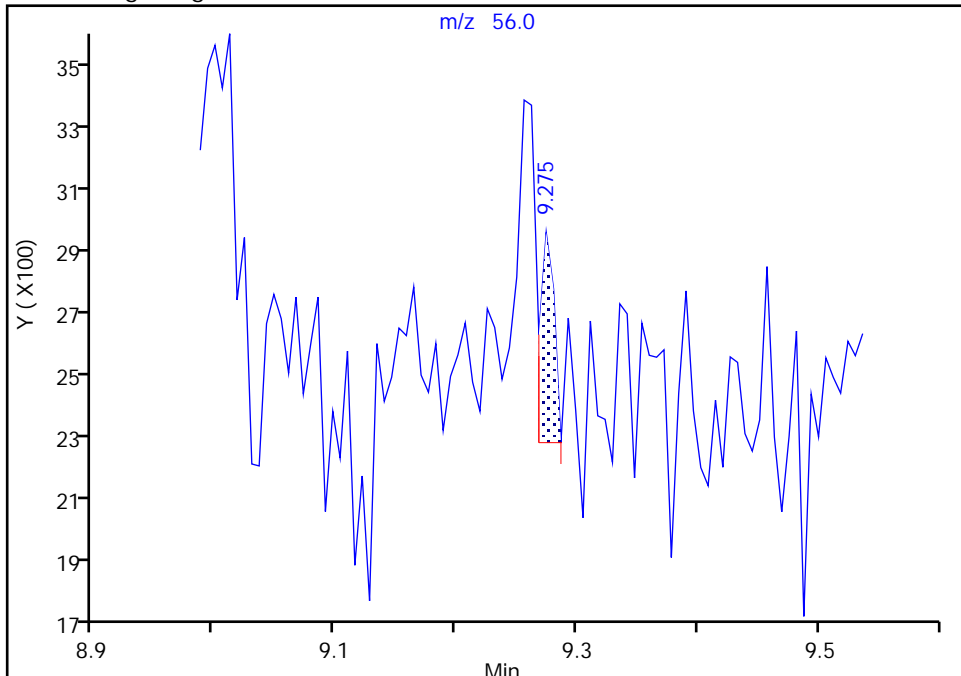
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

49 n-Butanol, CAS: 71-36-3

Signal: 1

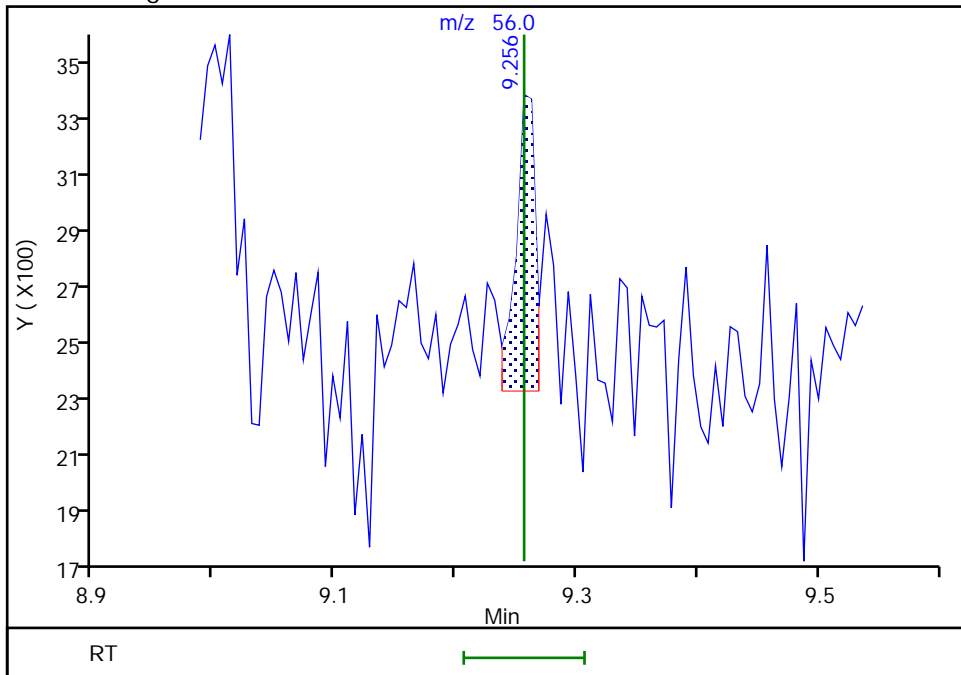
RT: 9.27  
Area: 534  
Amount: 11.408754  
Amount Units: ug/L

Processing Integration Results



RT: 9.26  
Area: 1158  
Amount: 23.356430  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:16:29  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

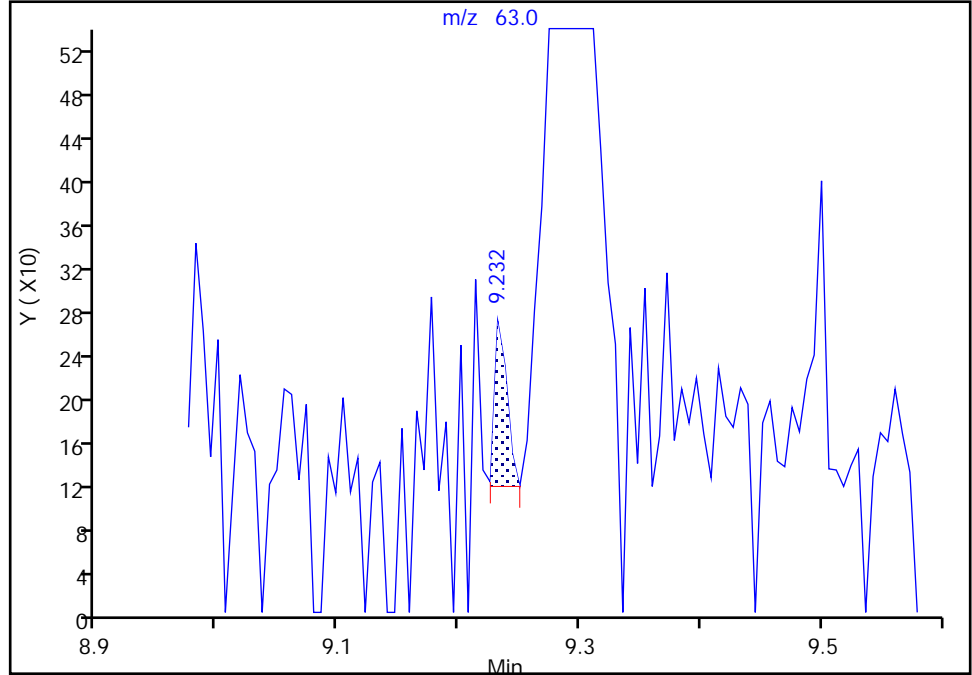
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

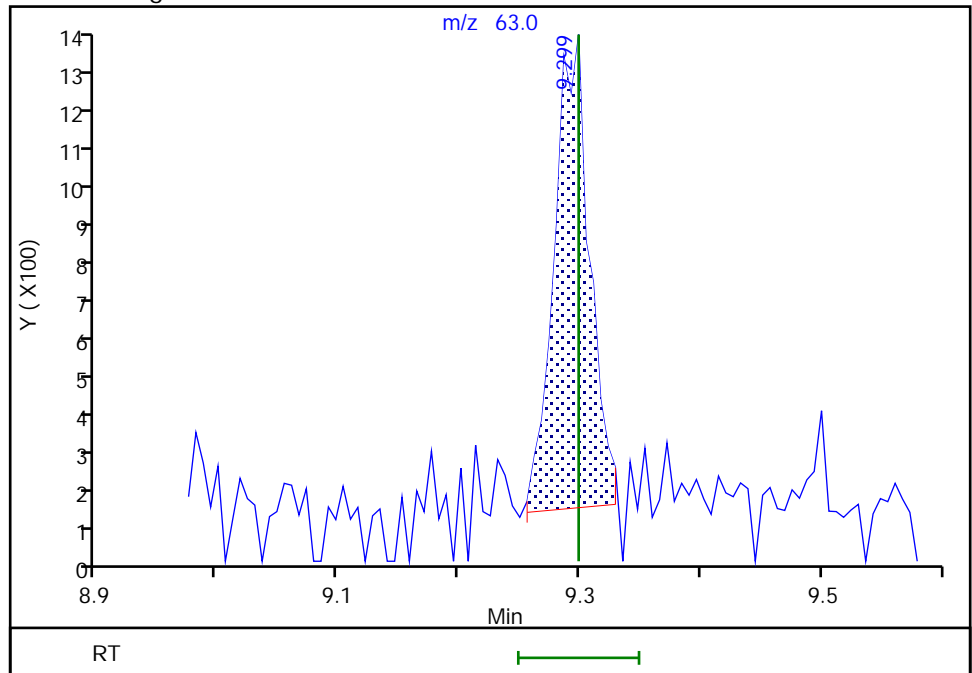
RT: 9.23  
Area: 108  
Amount: 0.056464  
Amount Units: ug/L

Processing Integration Results



RT: 9.30  
Area: 2530  
Amount: 1.159575  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:10:00  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

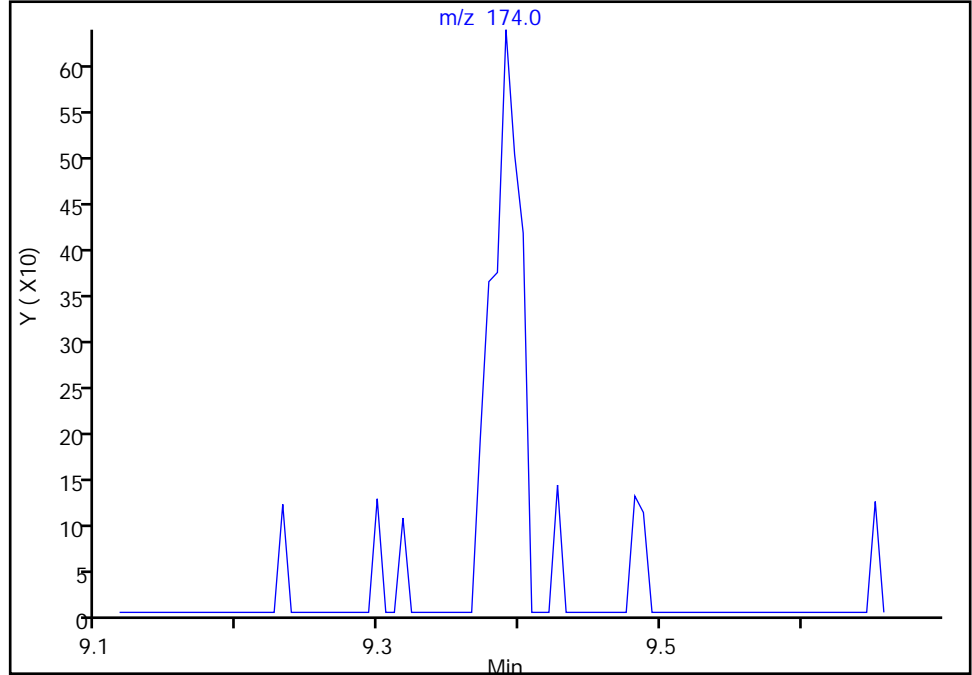
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

59 Dibromomethane, CAS: 74-95-3

Signal: 1

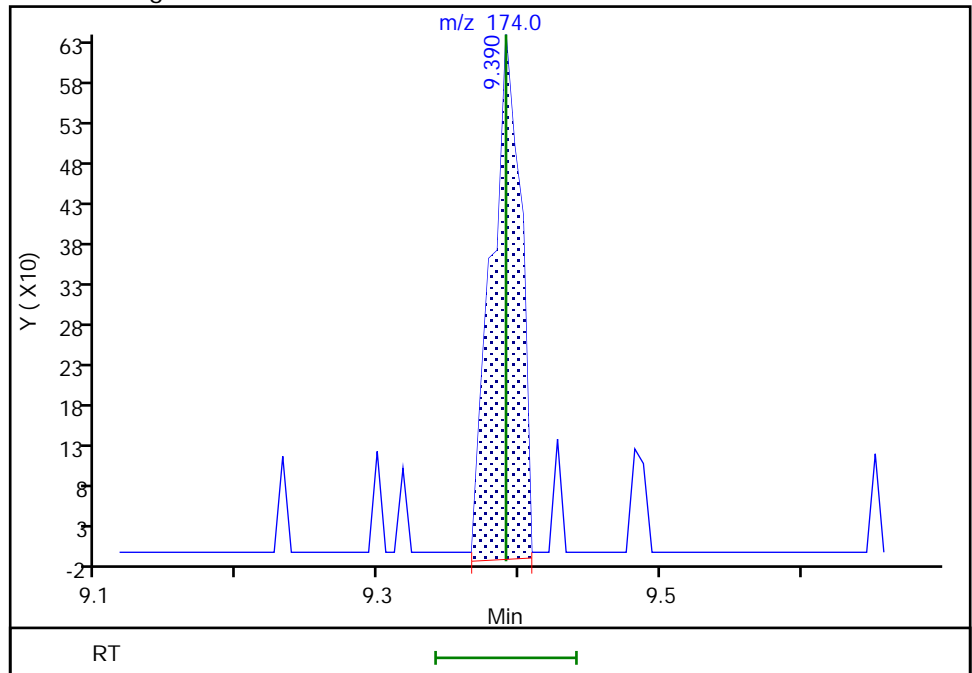
Not Detected  
Expected RT: 9.39

Processing Integration Results



Manual Integration Results

RT: 9.39  
Area: 930  
Amount: 0.968525  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 14:16:37  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

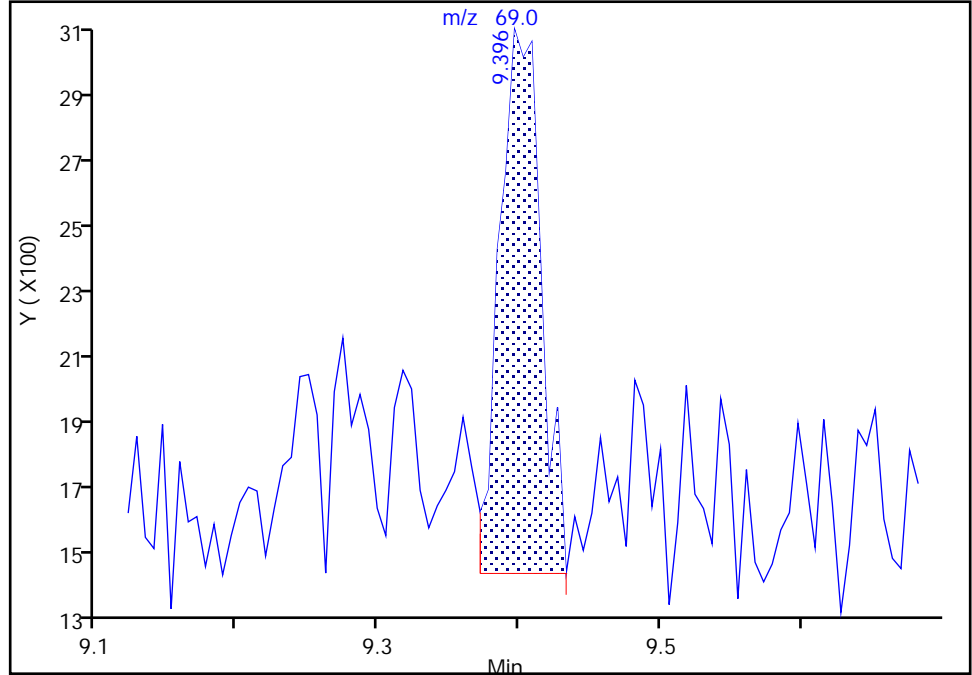
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

63 Methyl methacrylate, CAS: 80-62-6

Signal: 1

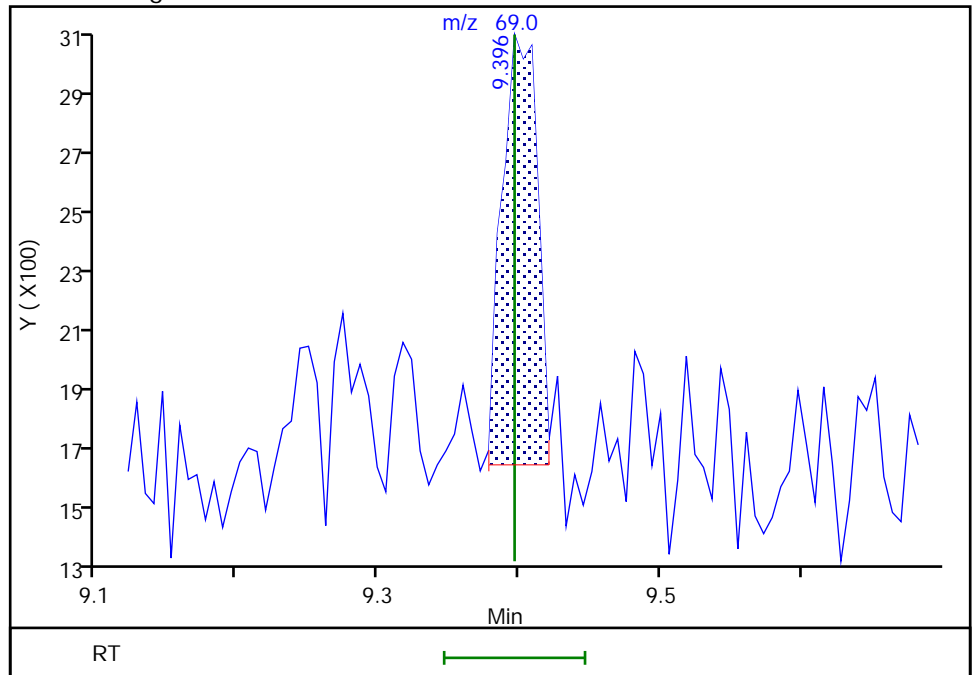
RT: 9.40  
Area: 3171  
Amount: 2.770757  
Amount Units: ug/L

Processing Integration Results



RT: 9.40  
Area: 2369  
Amount: 2.076754  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:10:23  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

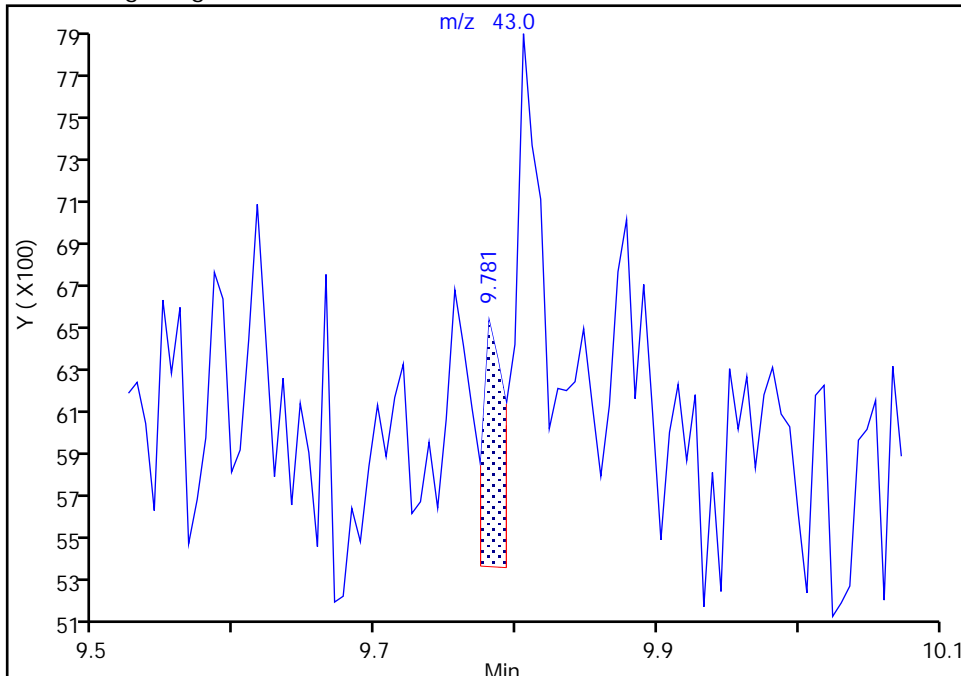
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

58 2-Nitropropane, CAS: 79-46-9

Signal: 1

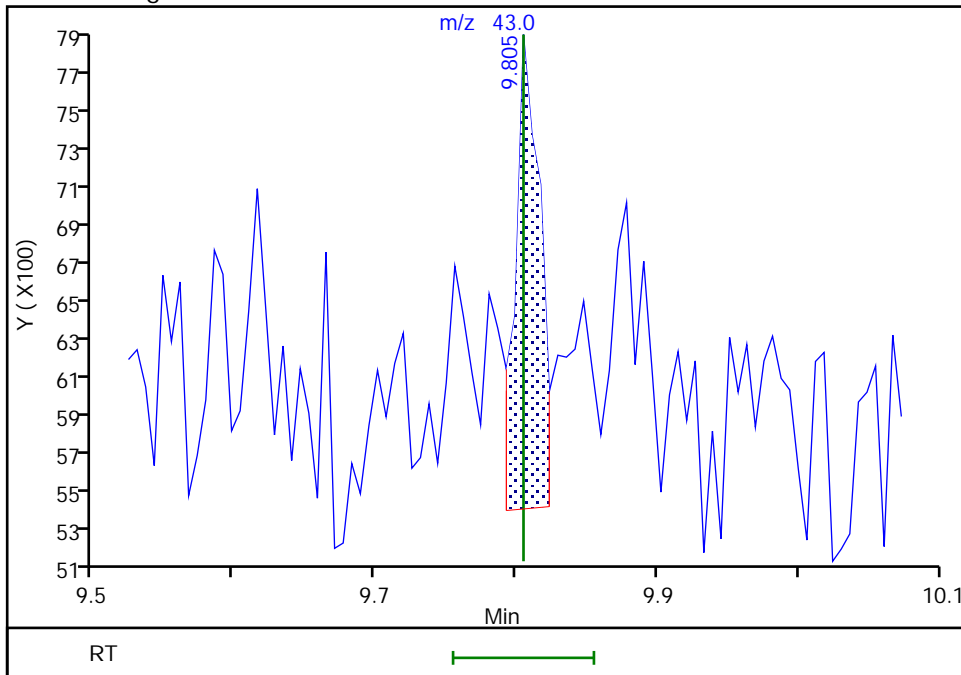
RT: 9.78  
Area: 1213  
Amount: 1.320214  
Amount Units: ug/L

Processing Integration Results



RT: 9.80  
Area: 3027  
Amount: 2.542635  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:16:43  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

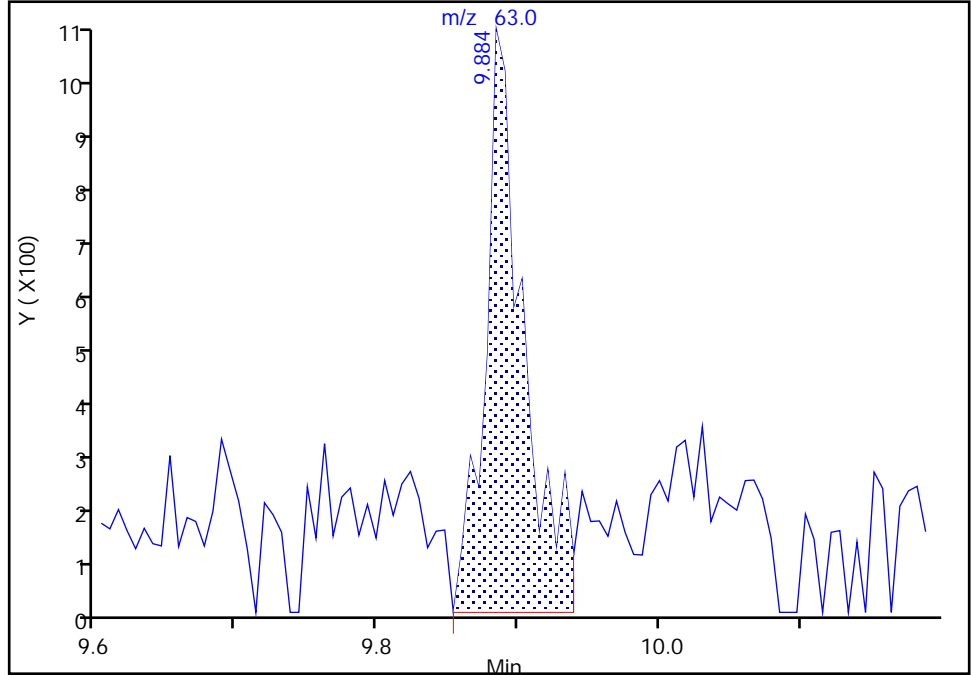
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

65 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

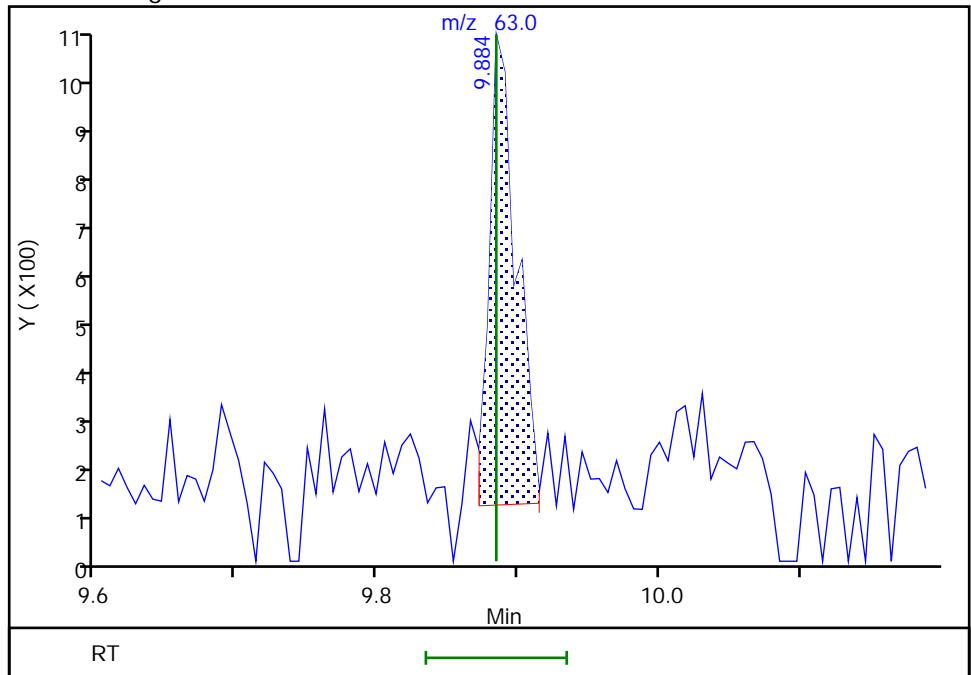
RT: 9.88  
Area: 1944  
Amount: 1.410069  
Amount Units: ug/L

Processing Integration Results



RT: 9.88  
Area: 1223  
Amount: 0.810513  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:48:47  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

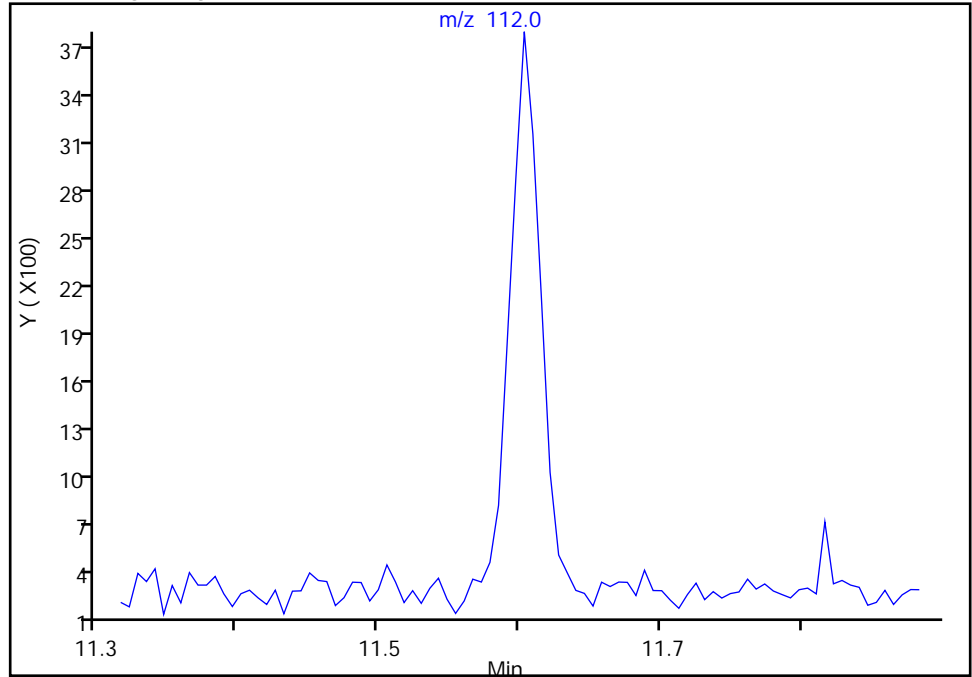
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

82 Chlorobenzene, CAS: 108-90-7

Signal: 1

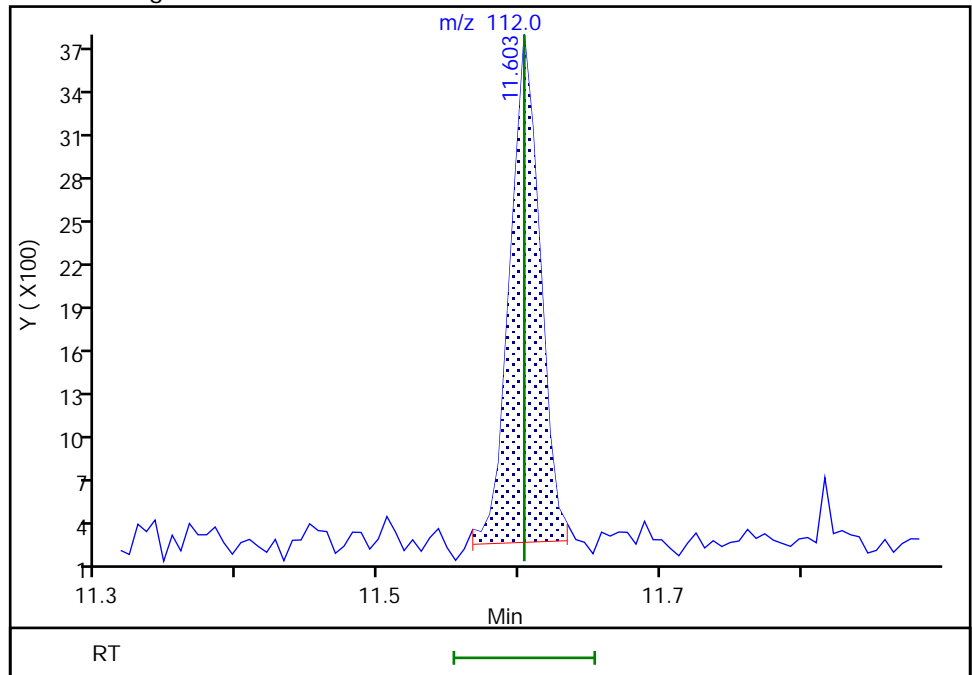
Not Detected  
Expected RT: 11.60

Processing Integration Results



Manual Integration Results

RT: 11.60  
Area: 5269  
Amount: 1.036497  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 14:17:05  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

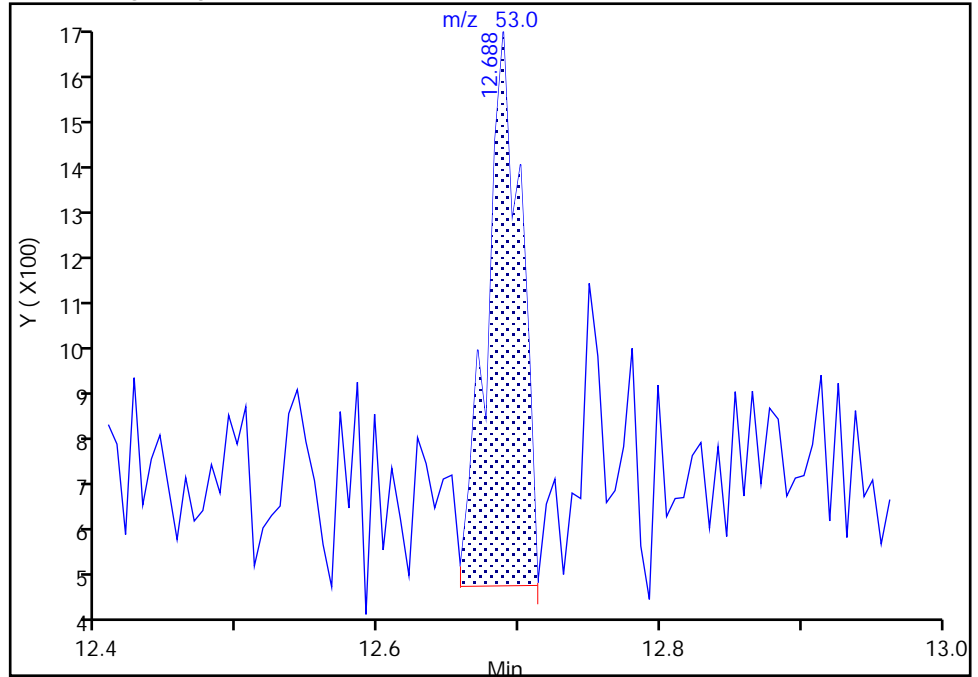
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

89 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

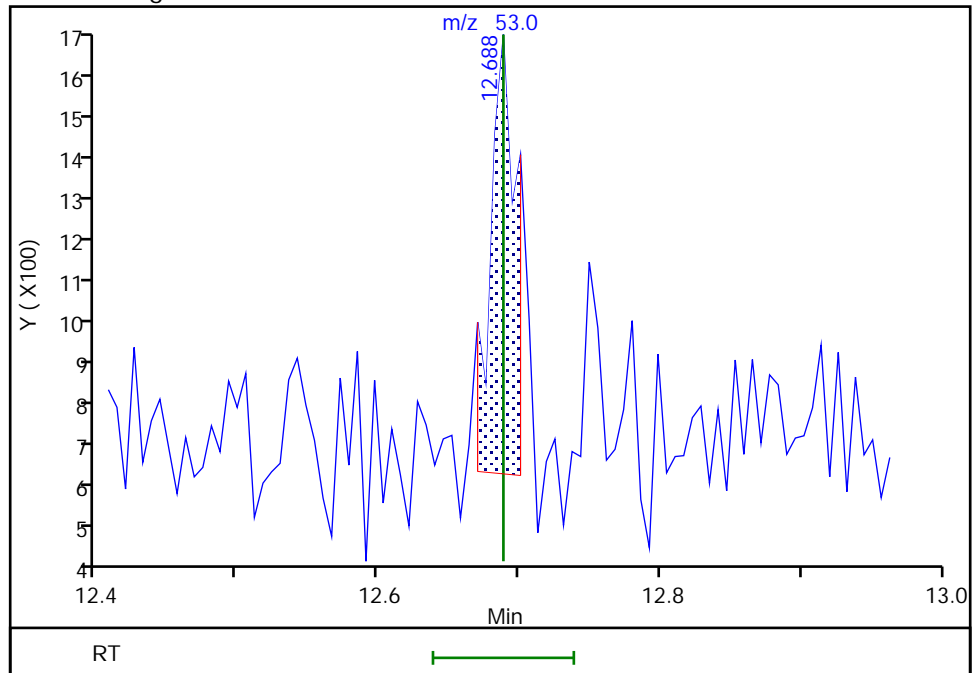
RT: 12.69  
Area: 1863  
Amount: 1.794378  
Amount Units: ug/L

Processing Integration Results



RT: 12.69  
Area: 1296  
Amount: 0.942856  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:13:18  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

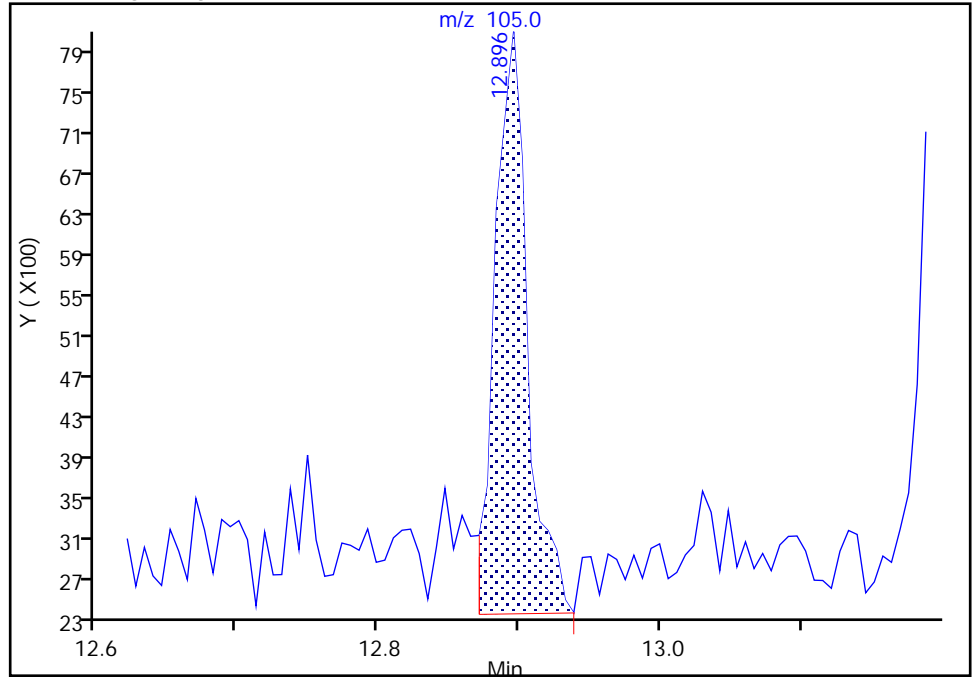
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

97 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

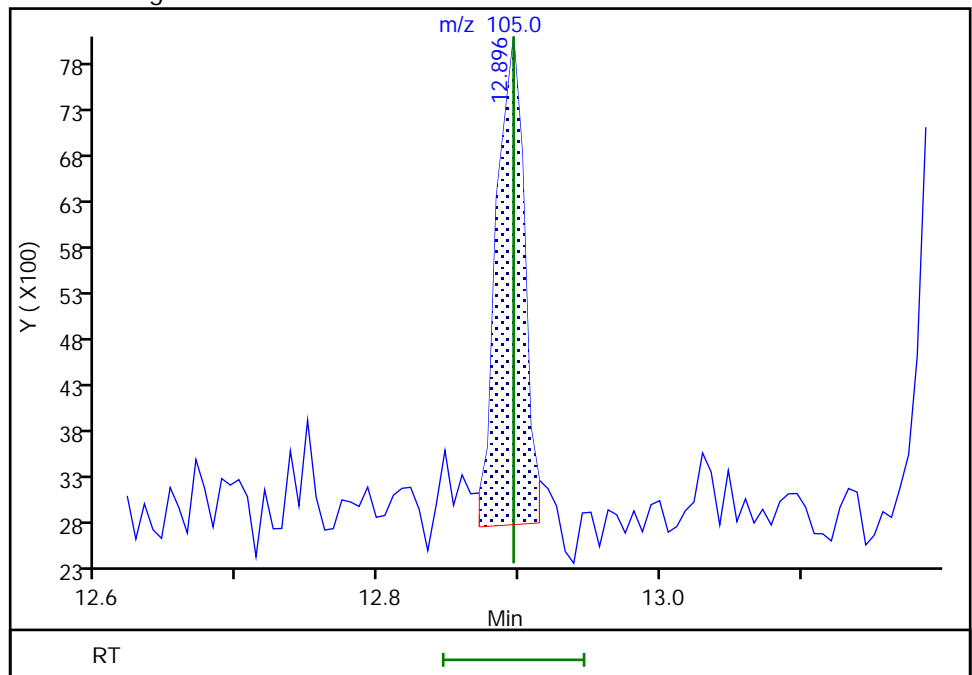
RT: 12.90  
Area: 9107  
Amount: 1.323311  
Amount Units: ug/L

Processing Integration Results



RT: 12.90  
Area: 7300  
Amount: 1.092617  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:51:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

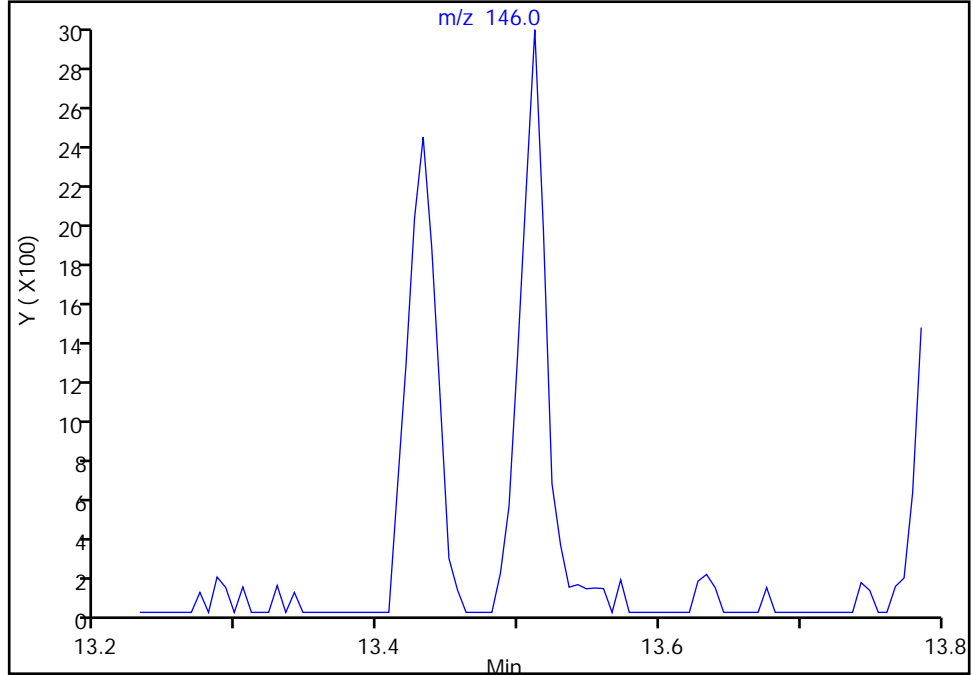
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

104 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

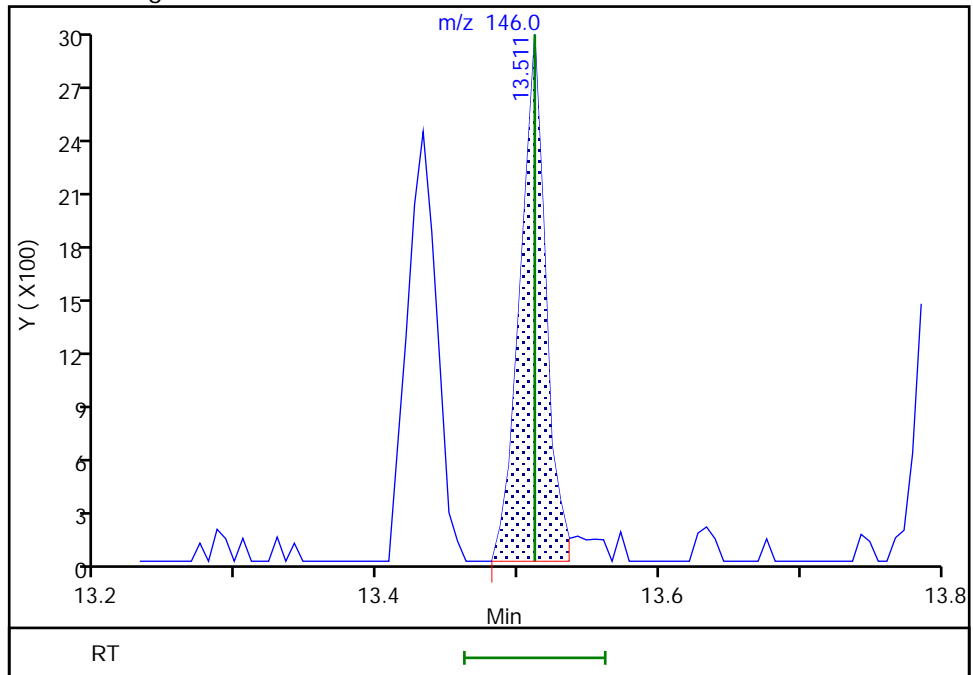
Not Detected  
Expected RT: 13.51

Processing Integration Results



Manual Integration Results

RT: 13.51  
Area: 3687  
Amount: 1.086631  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 14:17:18  
Audit Action: Assigned Compound ID

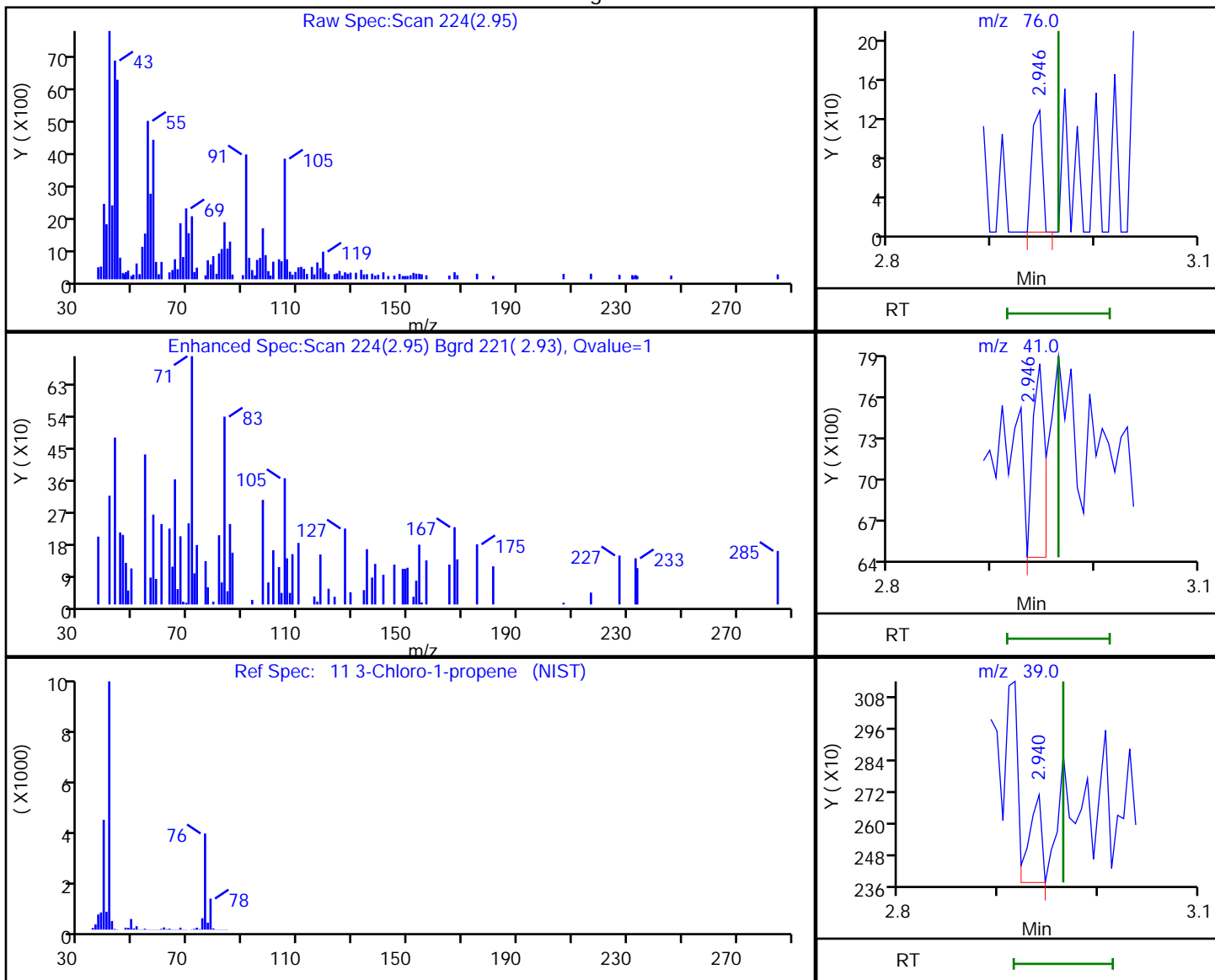


Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
 Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

11 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
2.95	76.00	85	1.194533
2.95	41.00	1126	
2.94	39.00	289	

Reviewer: bohnc, 02-Oct-2020 09:12:04

Audit Action: Marked Compound Undetected

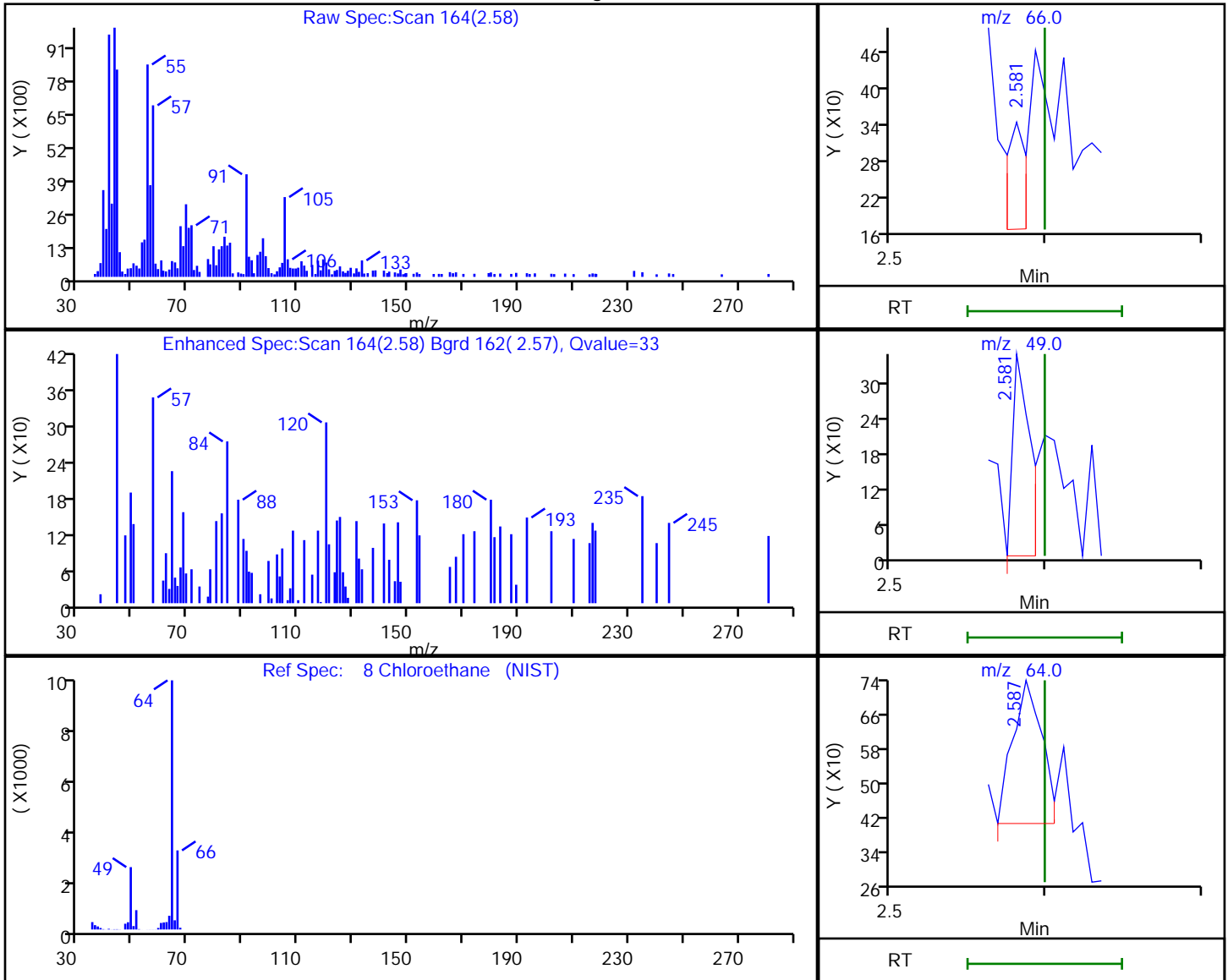
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D  
 Injection Date: 01-Oct-2020 17:21:30 Instrument ID: TAC119  
 Lims ID: IC  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.58	66.00	153	0.669110
2.58	49.00	268	
2.59	64.00	446	

Reviewer: bohnc, 02-Oct-2020 09:11:57

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_003.D

Injection Date: 01-Oct-2020 17:21:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 3

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

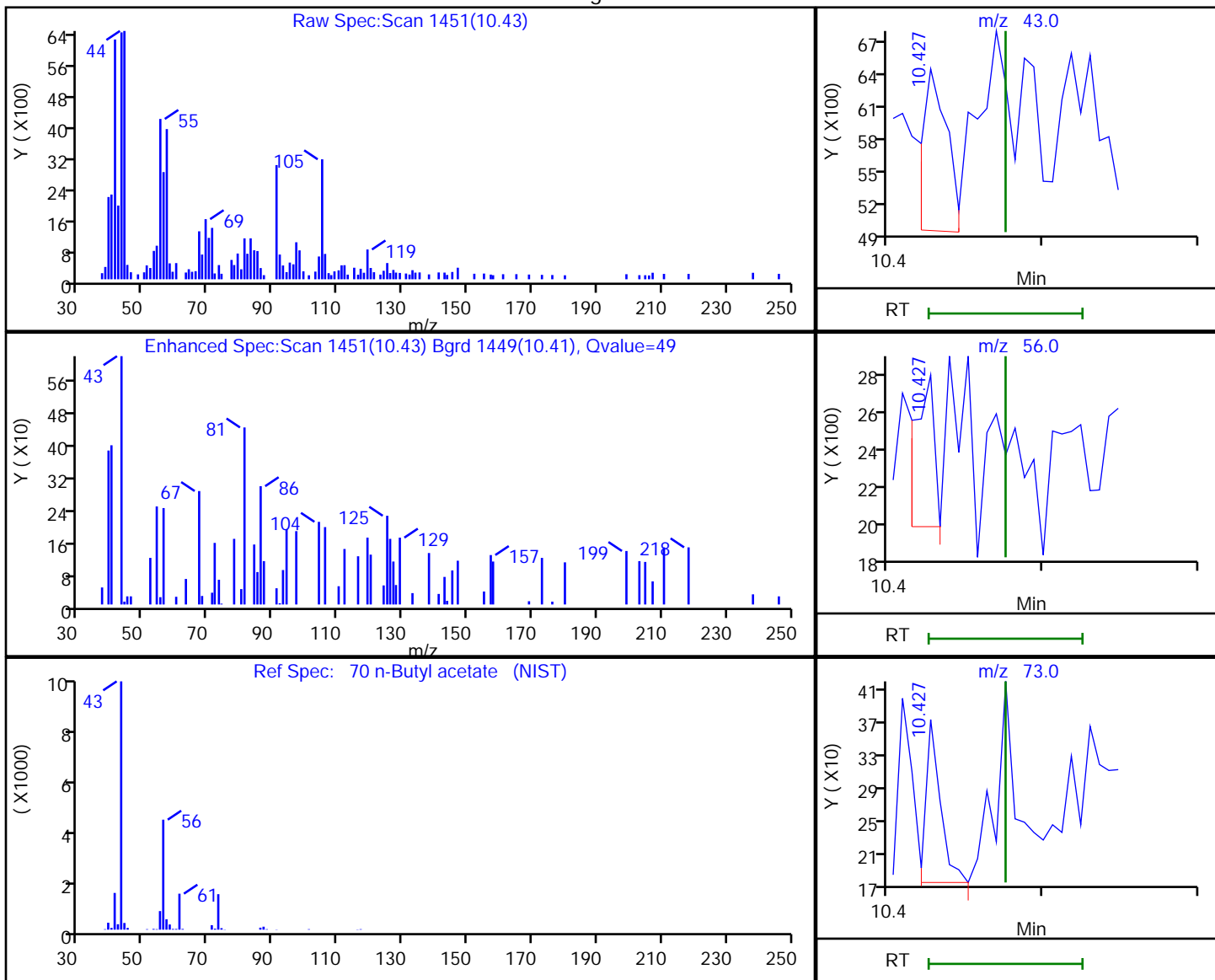
Limit Group: 8260C

Column:

Detector: MS SCAN

70 n-Butyl acetate, CAS: 123-86-4

Processing Results



RT	Mass	Response	Amount
10.43	43.00	1636	1.921643
10.43	56.00	703	
10.43	73.00	125	

Reviewer: bohnc, 02-Oct-2020 09:49:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 01-Oct-2020 17:47:30 ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 0.2  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 02-Oct-2020 11:32:37 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1029

First Level Reviewer: jantanuc

Date: 02-Oct-2020 14:11:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.703	1.703	0.000	2	1238	2.00	2.43	
4 Chloromethane	50	1.922	1.922	0.000	77	6708	2.00	2.34	
5 Vinyl chloride	62	2.056	2.056	0.000	72	4069	2.00	2.03	M
6 Butadiene	54	2.105	2.105	0.000	87	3289	2.00	1.84	
7 Bromomethane	94	2.459	2.459	0.000	10	1712	2.00	2.49	M
8 Chloroethane	66	2.587	2.587	0.000	0	240	2.00	1.59	
10 Dichlorofluoromethane	67	2.910	2.910	0.000	39	3002	2.00	1.39	
14 Trichlorofluoromethane	101	2.940	2.940	0.000	51	4285	2.00	1.95	M
11 3-Chloro-1-propene	76	2.958	2.958	0.000	52	142	2.00	1.95	
17 Ethyl ether	59	3.330	3.330	0.000	71	4275	2.00	2.23	
12 Acrolein	56	3.513	3.513	0.000	71	4889	12.0	11.1	
19 1,1-Dichloroethene	96	3.672	3.672	0.000	43	2417	2.00	2.26	M
16 Acetone	43	3.757	3.757	0.000	80	12231	10.0	12.6	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.733	3.733	0.000	27	2550	2.00	2.48	M
22 Iodomethane	142	3.867	3.867	0.000	93	4094	2.00	2.10	M
26 Carbon disulfide	76	4.013	4.013	0.000	59	8296	2.00	2.05	M
S 2 Xylenes, Total	100				0			3.95	
15 Isopropyl alcohol	45	4.044	4.044	0.000	31	4817	20.0	25.9	M
13 Acetonitrile	40	4.294	4.294	0.000	49	2275	25.0	18.6	M
24 Methyl acetate	43	4.306	4.306	0.000	71	11559	4.00	4.93	M
23 Methylene Chloride	84	4.531	4.531	0.000	71	7078	2.00	2.04	M
* 18 TBA-d9 (IS)	65	4.641	4.641	0.000	0	36383	200.0	200.0	M
20 2-Methyl-2-propanol	59	4.836	4.836	0.000	45	6626	20.0	23.4	M
21 Acrylonitrile	53	4.989	4.989	0.000	96	14804	20.0	20.0	
27 trans-1,2-Dichloroethene	96	5.062	5.062	0.000	77	3881	2.00	2.35	M
28 Methyl tert-butyl ether	73	5.086	5.086	0.000	78	10034	2.00	2.09	M
34 Hexane	57	5.641	5.641	0.000	85	14689	2.00	1.95	M
30 1,1-Dichloroethane	63	5.891	5.891	0.000	78	8024	2.00	2.07	M
31 Vinyl acetate	86	5.982	5.982	0.000	96	2340	5.00	6.32	M
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	59	10596	2.00	2.20	
35 Isopropyl ether	45	6.055	6.055	0.000	59	23944	2.50	2.52	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	88	6674	2.50	3.05	M
33 2-Butanone (MEK)	72	6.933	6.933	0.000	82	2175	10.0	10.8	M
43 2,2-Dichloropropane	77	6.915	6.915	0.000	38	5053	2.00	1.95	
37 cis-1,2-Dichloroethene	96	6.921	6.921	0.000	79	3759	2.00	2.03	
29 Propionitrile	54	7.019	7.019	0.000	45	7921	25.0	24.5	M
38 Ethyl acetate	43	7.055	7.055	0.000	94	10845	4.00	4.01	
36 Methacrylonitrile	67	7.263	7.263	0.000	97	14102	20.0	20.2	
39 Chlorobromomethane	130	7.305	7.305	0.000	52	2680	2.00	2.44	M
40 Chloroform	83	7.500	7.500	0.000	84	7577	2.00	2.29	M
48 1,1,1-Trichloroethane	97	7.701	7.701	0.000	72	5588	2.00	2.01	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	80	17819	10.0	10.2	
51 Cyclohexane	84	7.799	7.799	0.000	78	5372	2.00	2.26	
52 Carbon tetrachloride	117	7.927	7.927	0.000	67	5736	2.00	2.11	
50 1,1-Dichloropropene	75	7.939	7.939	0.000	72	5127	2.00	2.02	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	24251	10.0	10.2	
53 Benzene	78	8.195	8.195	0.000	85	13943	2.00	2.01	
42 Isobutyl alcohol	43	8.207	8.207	0.000	63	6899	50.0	49.9	M
47 1,2-Dichloroethane	62	8.281	8.281	0.000	77	6452	2.00	1.98	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	81	13154	2.50	2.58	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	96	65815	10.0	10.0	
56 n-Heptane	43	8.634	8.634	0.000	47	10782	2.00	2.15	
45 Tetrahydrofuran	42	8.628	8.628	0.000	6	3877	4.00	4.92	M
61 Trichloroethene	132	9.018	9.018	0.000	76	4278	2.00	2.25	M
57 Ethyl acrylate	55	9.159	9.159	0.000	90	7746	2.00	2.13	M
49 n-Butanol	56	9.262	9.262	0.000	37	2767	50.0	54.5	
66 Methylcyclohexane	83	9.274	9.274	0.000	76	6651	2.00	2.14	M
60 1,2-Dichloropropane	63	9.293	9.293	0.000	50	4834	2.00	2.17	M
59 Dibromomethane	174	9.390	9.390	0.000	26	2077	2.00	2.11	
63 Methyl methacrylate	69	9.402	9.402	0.000	83	5483	4.00	4.70	
62 Dichlorobromomethane	83	9.591	9.591	0.000	79	5955	2.00	2.30	
58 2-Nitropropane	43	9.799	9.799	0.000	88	5426	4.00	4.45	
65 2-Chloroethyl vinyl ether	63	9.884	9.884	0.000	65	2338	2.00	2.04	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	75	6075	2.00	2.01	
68 4-Methyl-2-pentanone (MIBK)	58	10.170	10.170	0.000	97	8533	10.0	9.92	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	66025	10.0	10.2	
74 Toluene	91	10.341	10.341	0.000	89	17809	2.00	2.23	
70 n-Butyl acetate	43	10.463	10.463	0.000	26	2885	2.00	4.56	M
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	82	5763	2.00	2.09	
73 Ethyl methacrylate	69	10.628	10.628	0.000	51	5158	2.00	2.48	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	79	3593	2.00	2.19	
79 Tetrachloroethene	164	10.817	10.817	0.000	82	2982	2.00	1.95	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	81	5688	2.00	2.23	
76 2-Hexanone	58	10.933	10.933	0.000	92	7563	10.0	8.97	
77 Chlorodibromomethane	129	11.079	11.079	0.000	62	4110	2.00	2.21	
78 Ethylene Dibromide	107	11.176	11.176	0.000	54	3160	2.00	2.09	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	89	51408	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	85	10272	2.00	2.06	
80 1,1,1,2-Tetrachloroethane	131	11.682	11.682	0.000	38	4271	2.00	2.24	
83 Ethylbenzene	91	11.682	11.682	0.000	98	17971	2.00	1.89	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	14132	2.00	1.95	
88 o-Xylene	91	12.115	12.115	0.000	91	15472	2.00	2.00	
86 Styrene	104	12.134	12.134	0.000	94	10810	2.00	2.24	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	73	2154	2.00	1.94	
91 Isopropylbenzene	105	12.414	12.414	0.000	92	16880	2.00	2.06	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	82	19006	10.0	10.2	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	78	3295	2.00	1.61	
93 Bromobenzene	156	12.682	12.682	0.000	80	3726	2.00	1.96	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	46	2406	2.00	2.24	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	16	1172	2.00	2.17	
94 N-Propylbenzene	91	12.755	12.755	0.000	83	19940	2.00	2.12	
95 2-Chlorotoluene	126	12.829	12.829	0.000	90	4036	2.00	2.13	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	76	13493	2.00	1.99	
96 4-Chlorotoluene	126	12.926	12.926	0.000	91	4264	2.00	2.17	
98 tert-Butylbenzene	119	13.152	13.152	0.000	88	11780	2.00	1.89	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	60	14747	2.00	2.18	
100 sec-Butylbenzene	105	13.328	13.328	0.000	92	18287	2.00	2.08	
102 1,3-Dichlorobenzene	146	13.426	13.426	0.000	87	7413	2.00	2.15	
105 4-Isopropyltoluene	119	13.438	13.438	0.000	93	14360	2.00	1.97	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	93	22226	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	73	7474	2.00	2.17	M
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	82	15784	2.00	2.19	
101 Benzyl chloride	126	13.591	13.591	0.000	90	1722	2.00	2.33	
108 n-Butylbenzene	134	13.761	13.761	0.000	91	4121	2.00	2.29	
107 1,2-Dichlorobenzene	146	13.792	13.792	0.000	80	6722	2.00	2.04	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.401	0.000	26	793	2.00	2.24	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	77	5212	2.00	2.06	
111 1,2,4-Trichlorobenzene	180	15.035	15.035	0.000	81	4598	2.00	2.14	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	75	2647	2.00	2.01	
112 Naphthalene	128	15.249	15.249	0.000	93	11893	2.00	2.04	
114 1,2,3-Trichlorobenzene	180	15.419	15.419	0.000	74	4519	2.00	2.05	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

VOAMasterMix\_00057

Amount Added: 0.20

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D

Injection Date: 01-Oct-2020 17:47:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 4

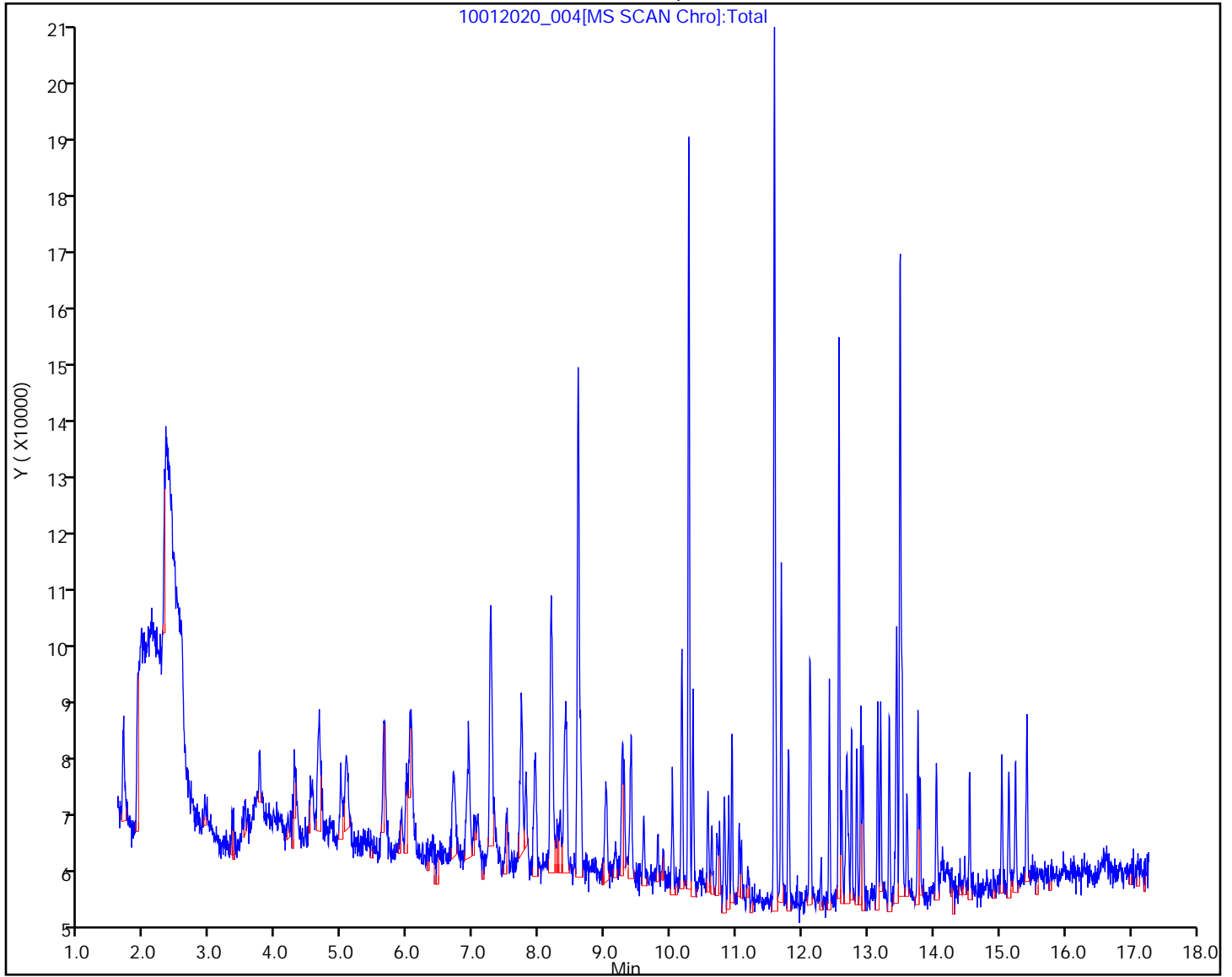
Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

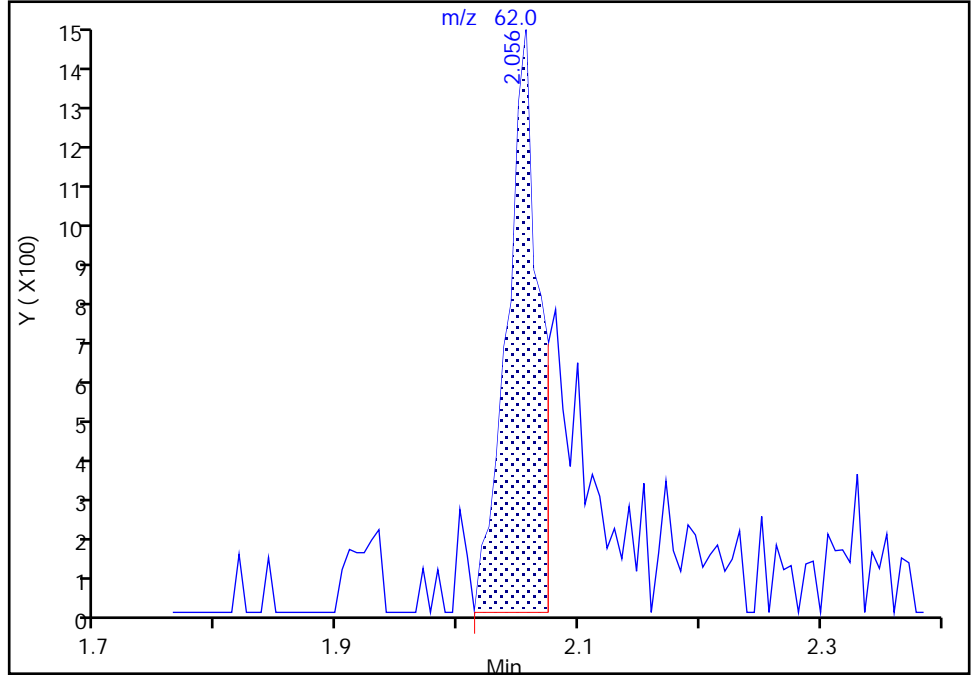
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Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

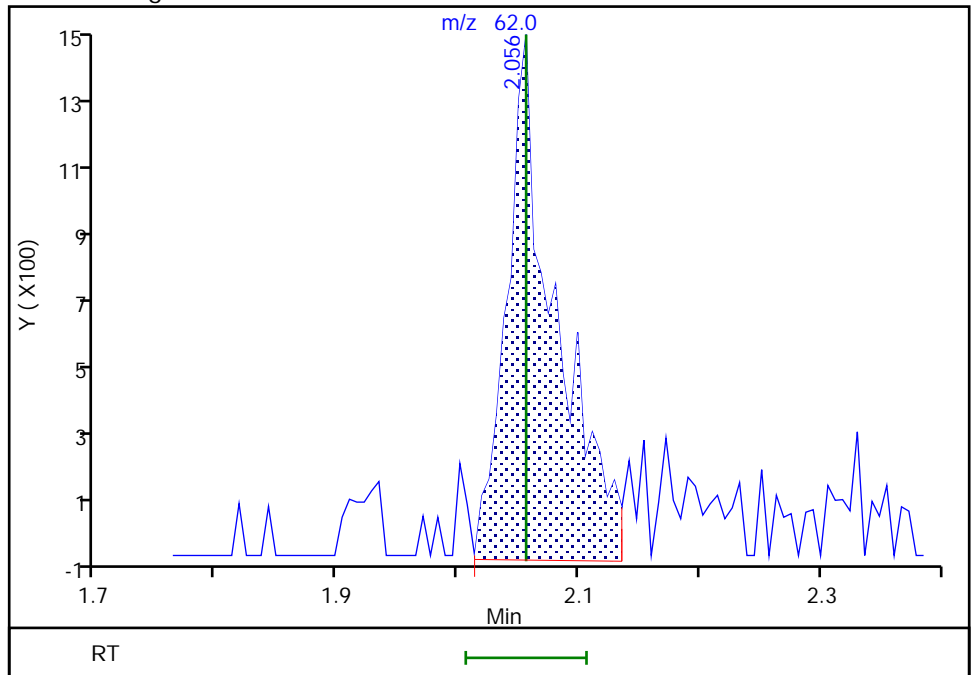
RT: 2.06  
Area: 2636  
Amount: 1.658966  
Amount Units: ug/L

Processing Integration Results



RT: 2.06  
Area: 4069  
Amount: 2.032983  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:08:06  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

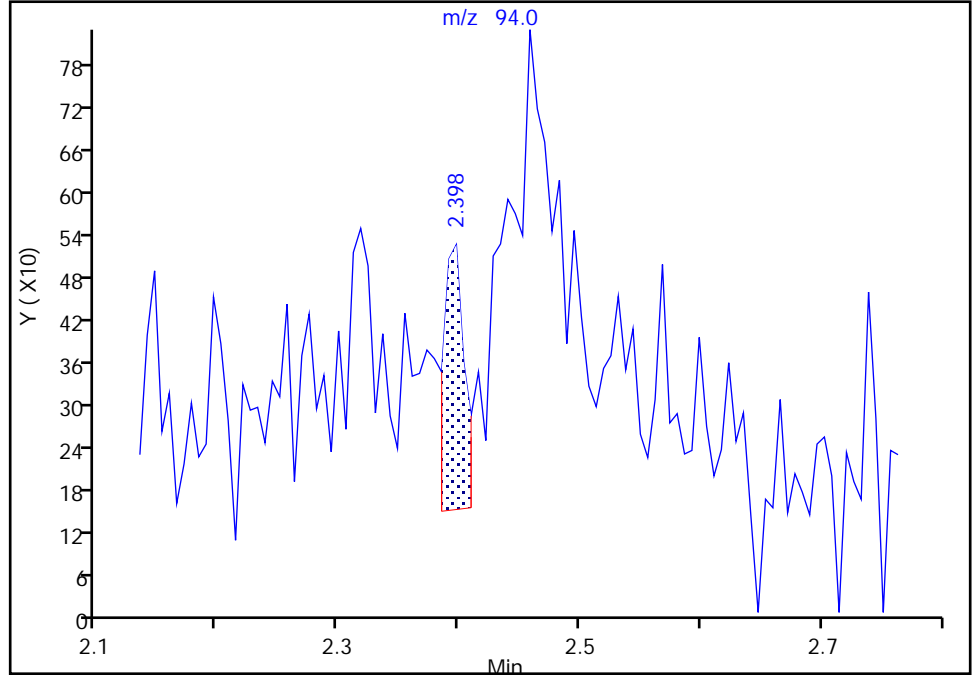
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

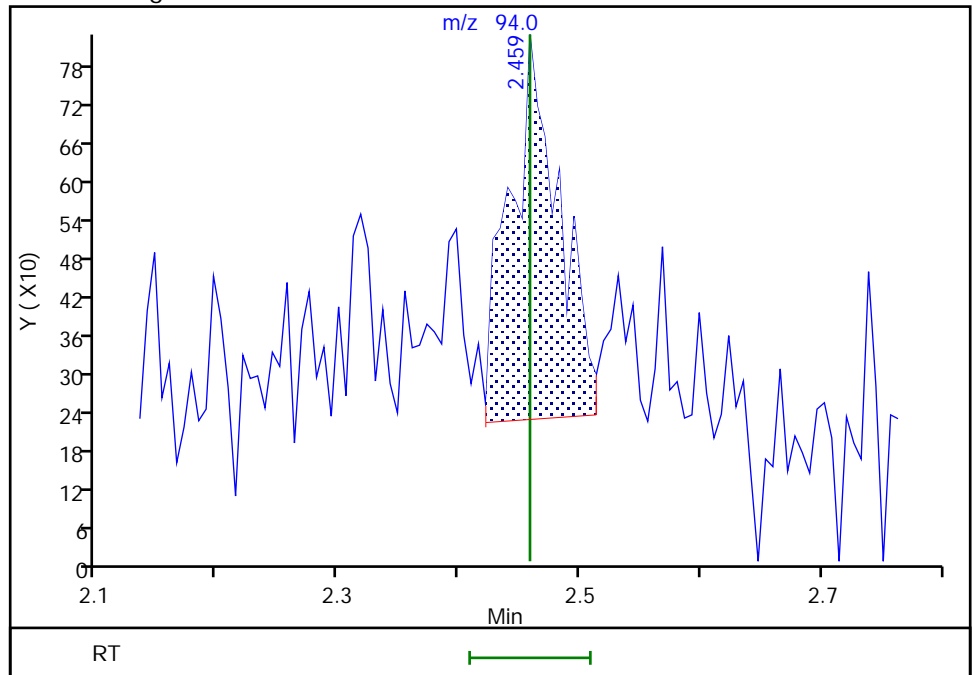
RT: 2.40  
Area: 462  
Amount: 0.737435  
Amount Units: ug/L

Processing Integration Results



RT: 2.46  
Area: 1712  
Amount: 2.493298  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:08:14  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

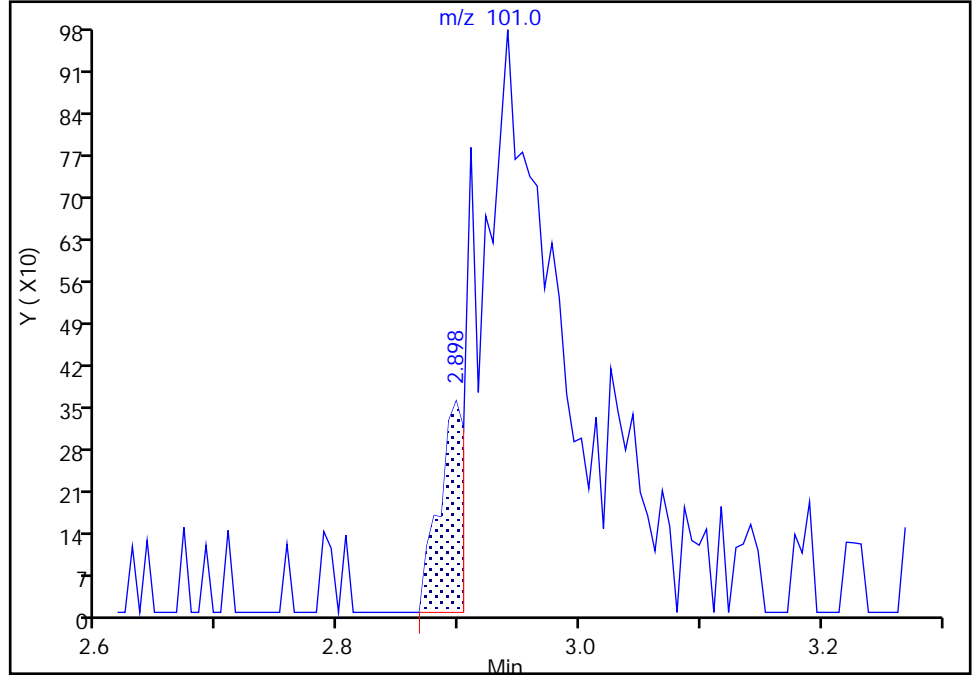
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Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

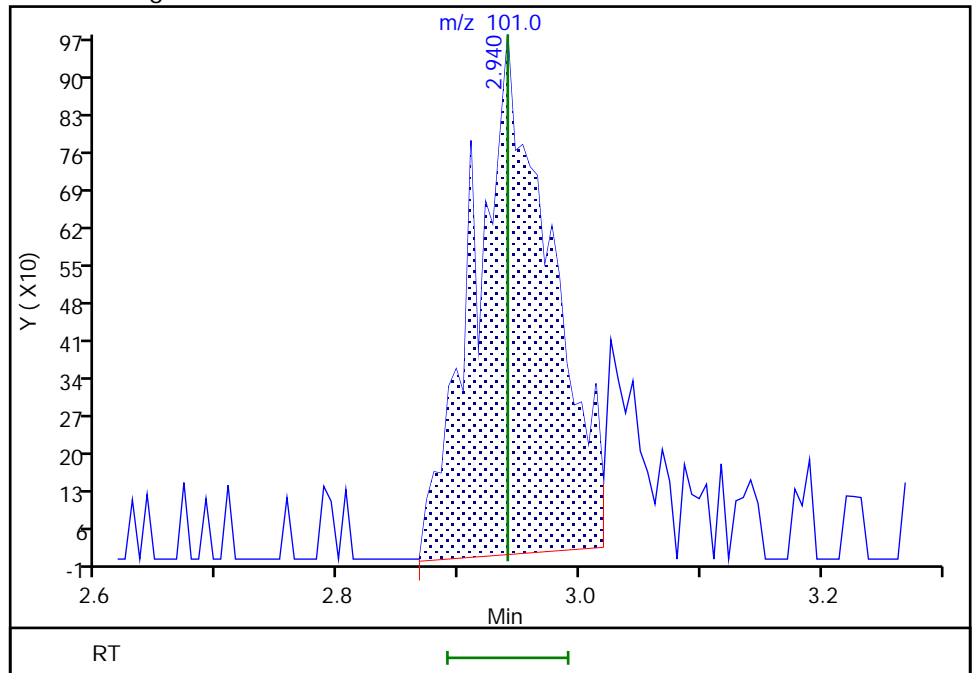
RT: 2.90  
Area: 520  
Amount: 0.317282  
Amount Units: ug/L

Processing Integration Results



RT: 2.94  
Area: 4285  
Amount: 1.951921  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:08:21  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

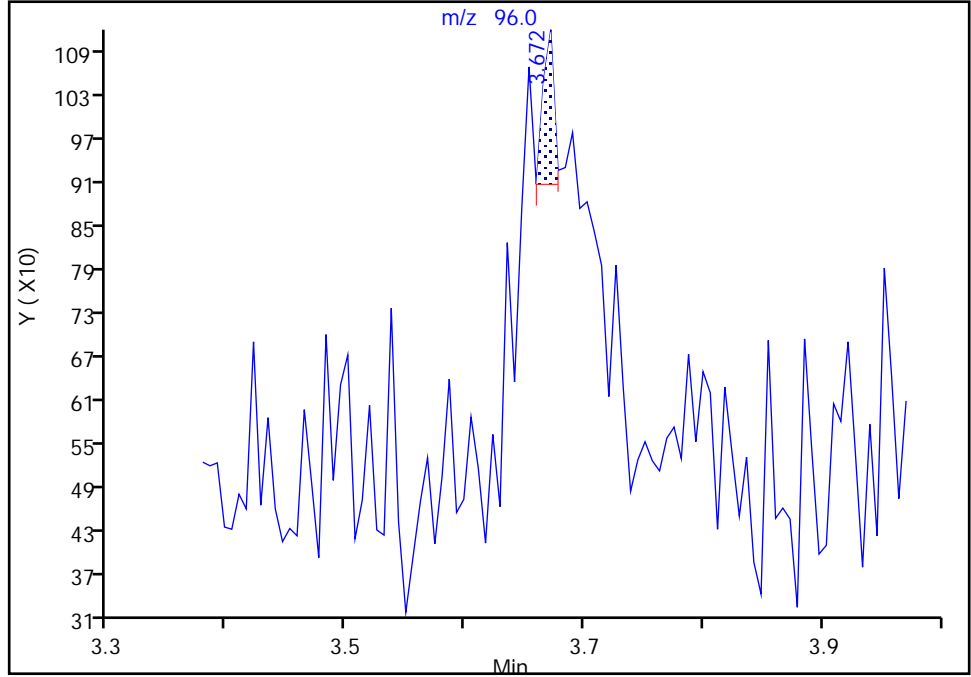
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Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

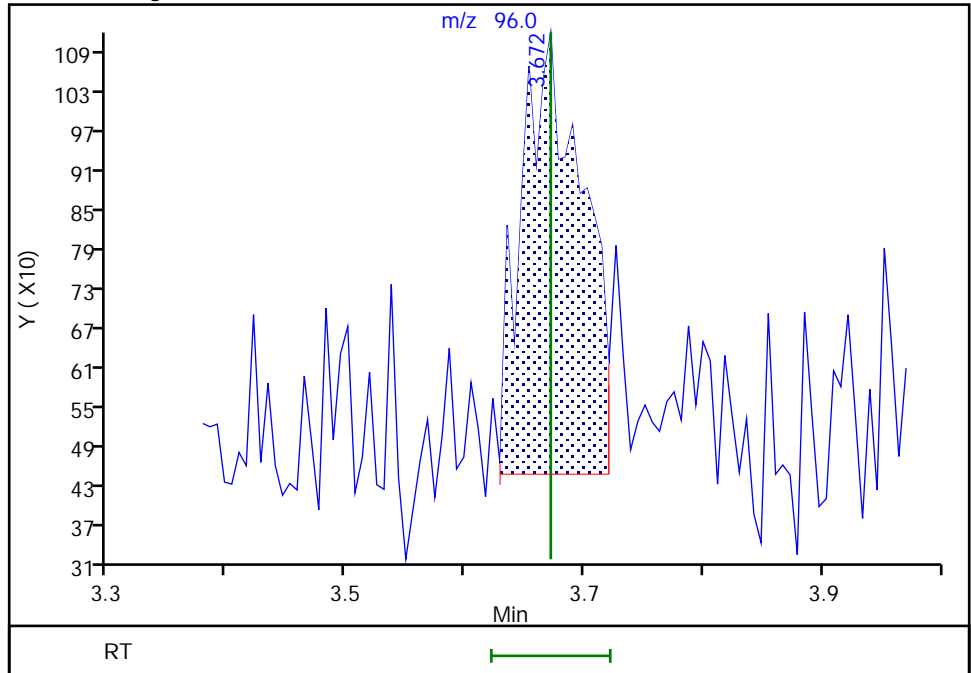
RT: 3.67  
Area: 136  
Amount: 0.179284  
Amount Units: ug/L

Processing Integration Results



RT: 3.67  
Area: 2417  
Amount: 2.261935  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:08:32  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

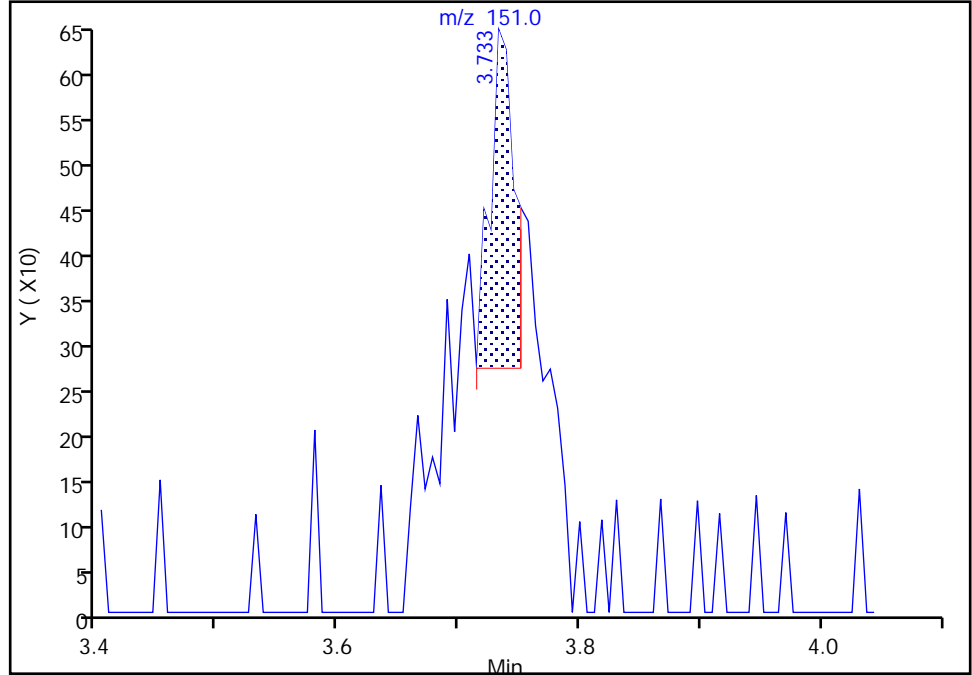
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

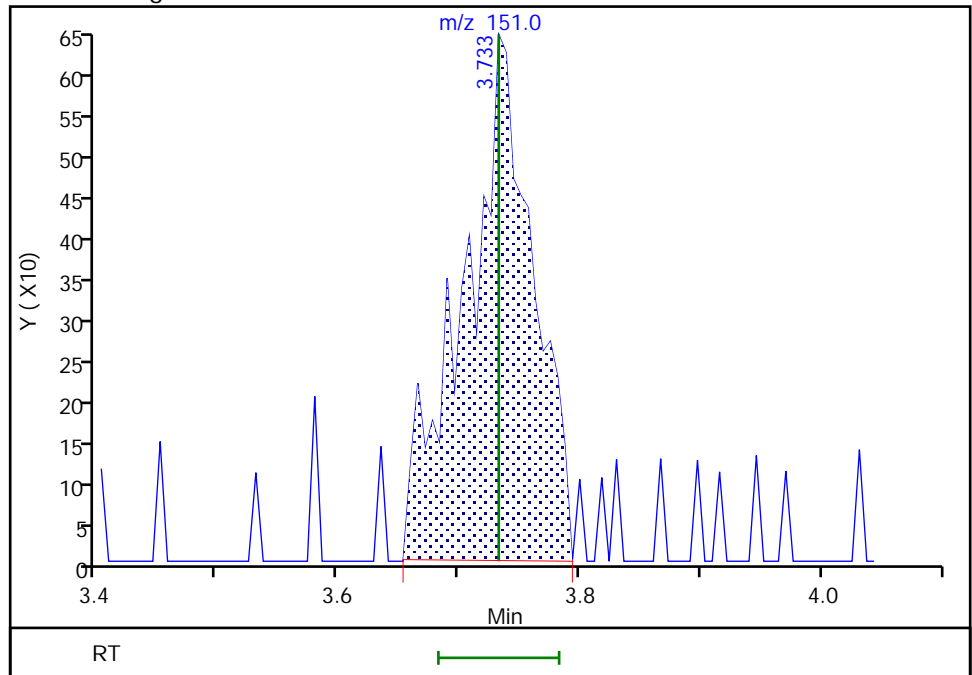
RT: 3.73  
Area: 520  
Amount: 0.671212  
Amount Units: ug/L

Processing Integration Results



RT: 3.73  
Area: 2550  
Amount: 2.481218  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:08:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

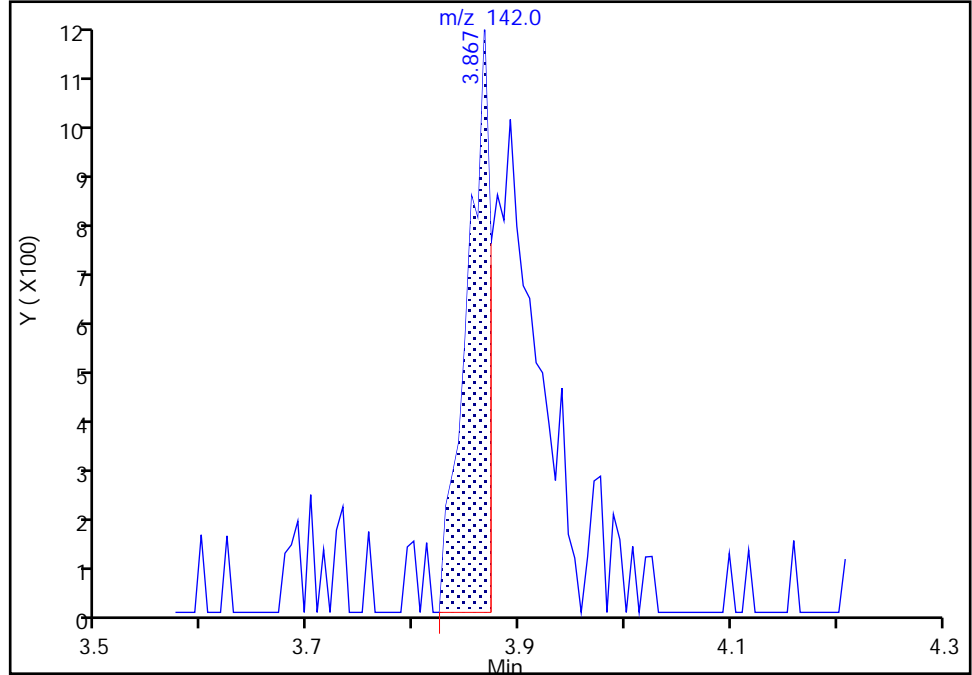
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

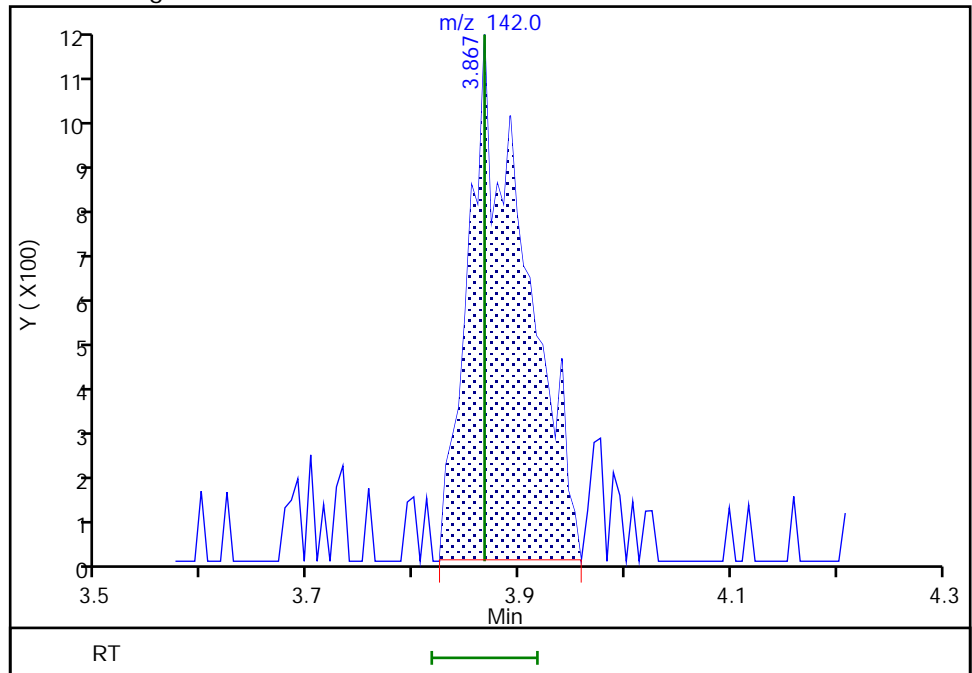
RT: 3.87  
Area: 1696  
Amount: 1.113412  
Amount Units: ug/L

Processing Integration Results



RT: 3.87  
Area: 4094  
Amount: 2.104115  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:08:44  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

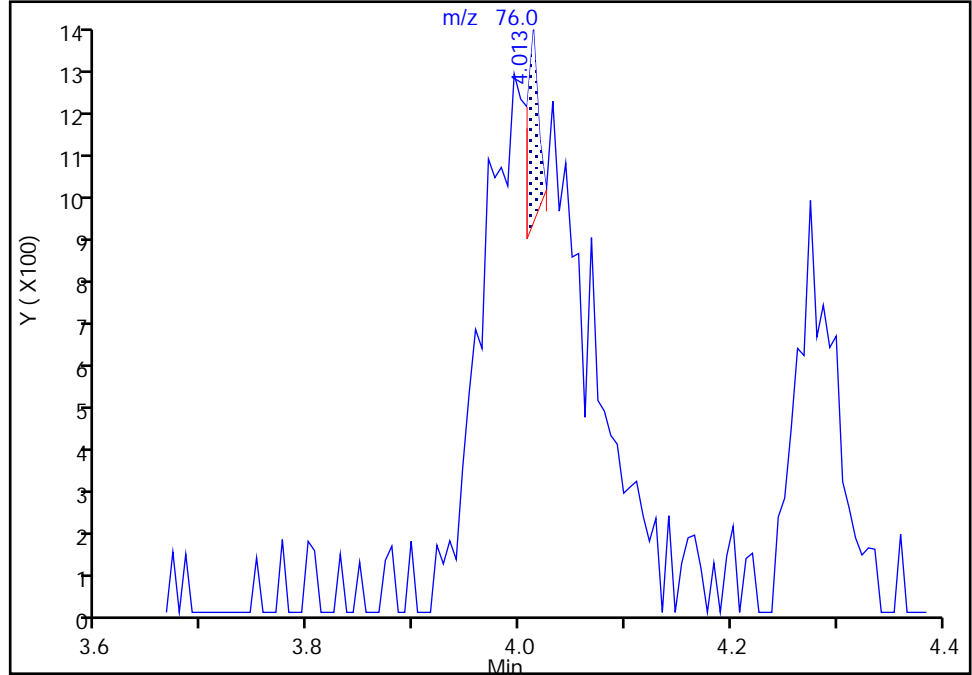
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

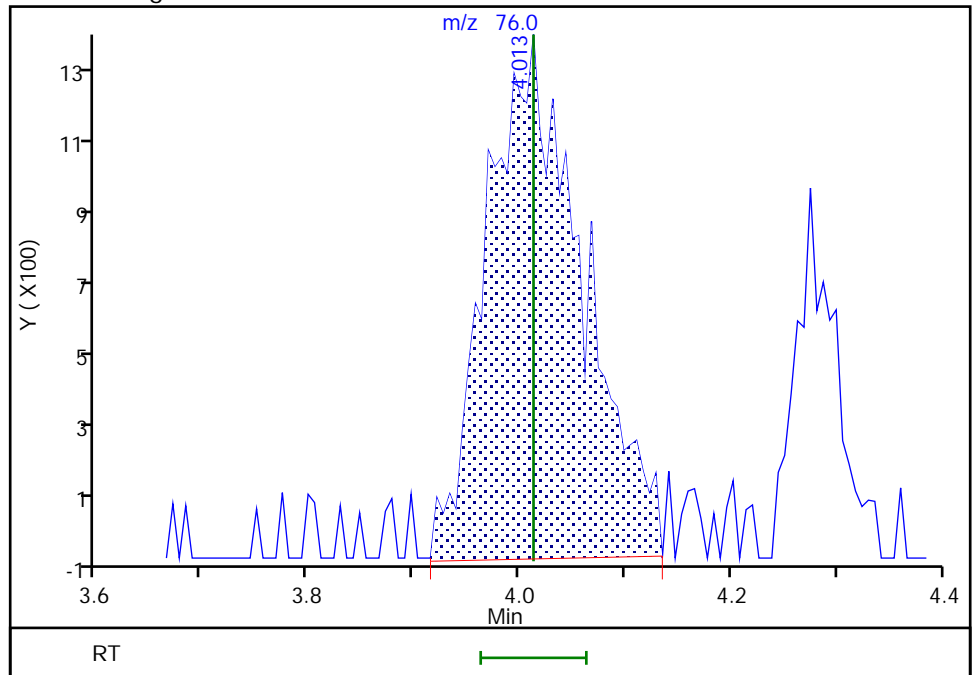
RT: 4.01  
Area: 325  
Amount: 0.107932  
Amount Units: ug/L

Processing Integration Results



RT: 4.01  
Area: 8296  
Amount: 2.051316  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:08:48  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

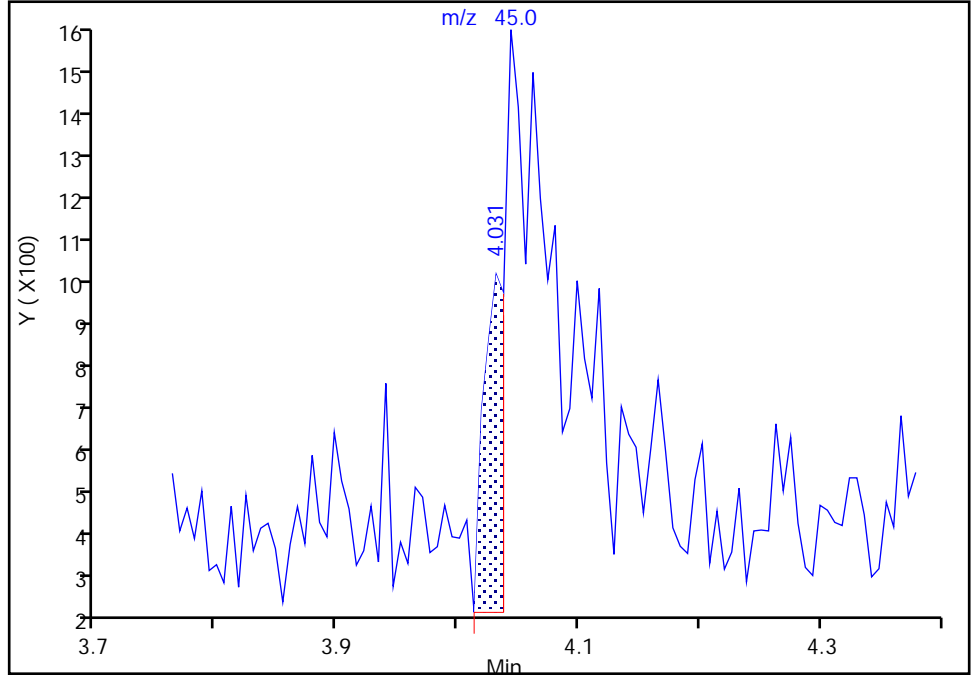
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

15 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

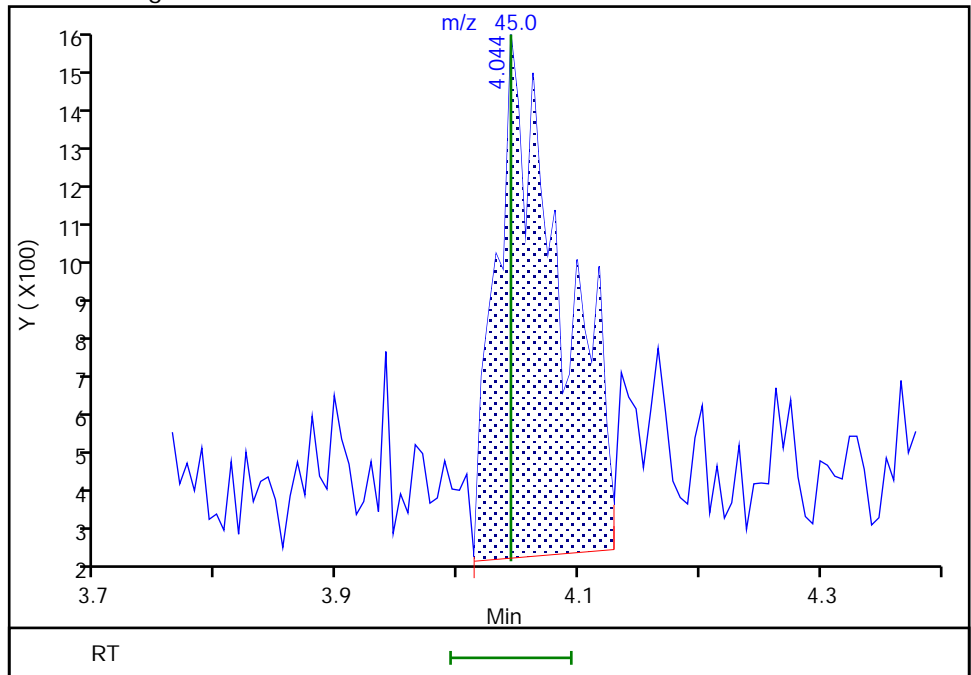
RT: 4.03  
Area: 920  
Amount: 14.166996  
Amount Units: ug/L

Processing Integration Results



RT: 4.04  
Area: 4817  
Amount: 25.871309  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:08:54  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

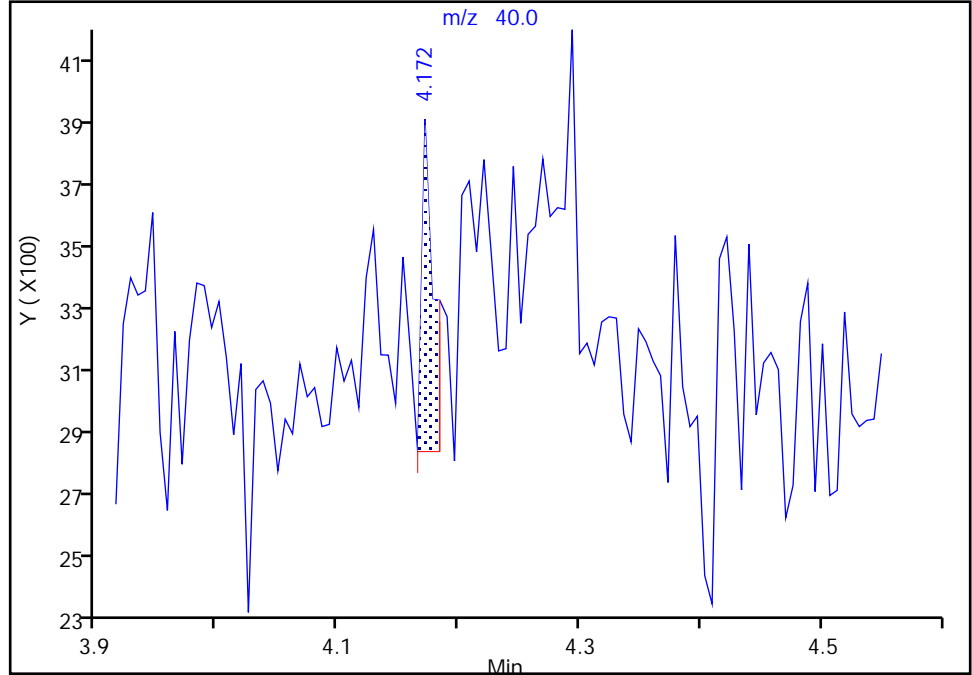
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

13 Acetonitrile, CAS: 75-05-8

Signal: 1

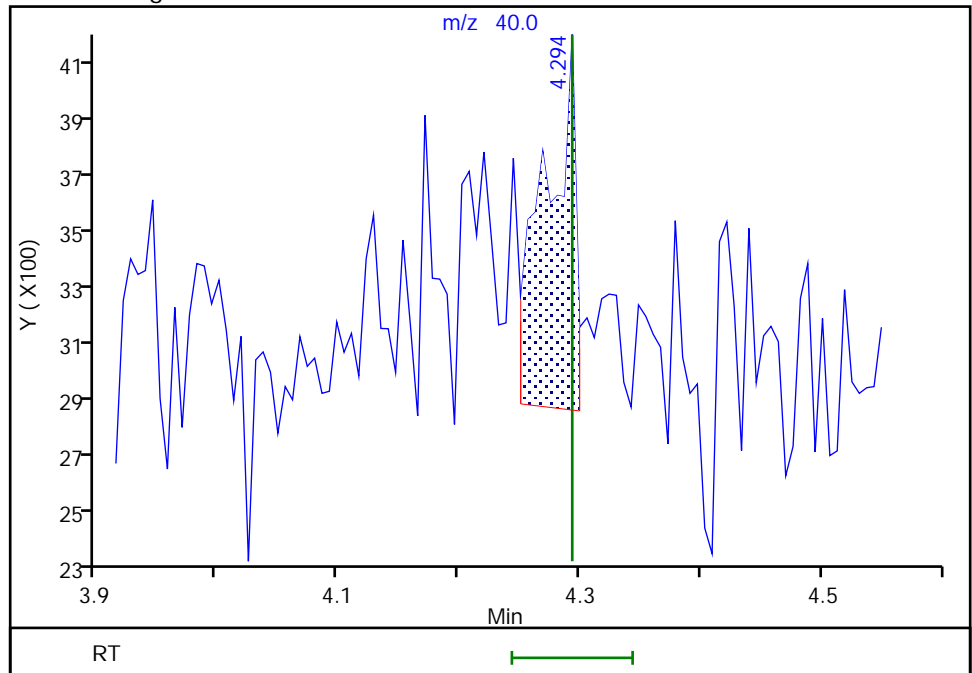
RT: 4.17  
Area: 716  
Amount: 5.883131  
Amount Units: ug/L

Processing Integration Results



RT: 4.29  
Area: 2275  
Amount: 18.614591  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:08:59  
Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Seattle

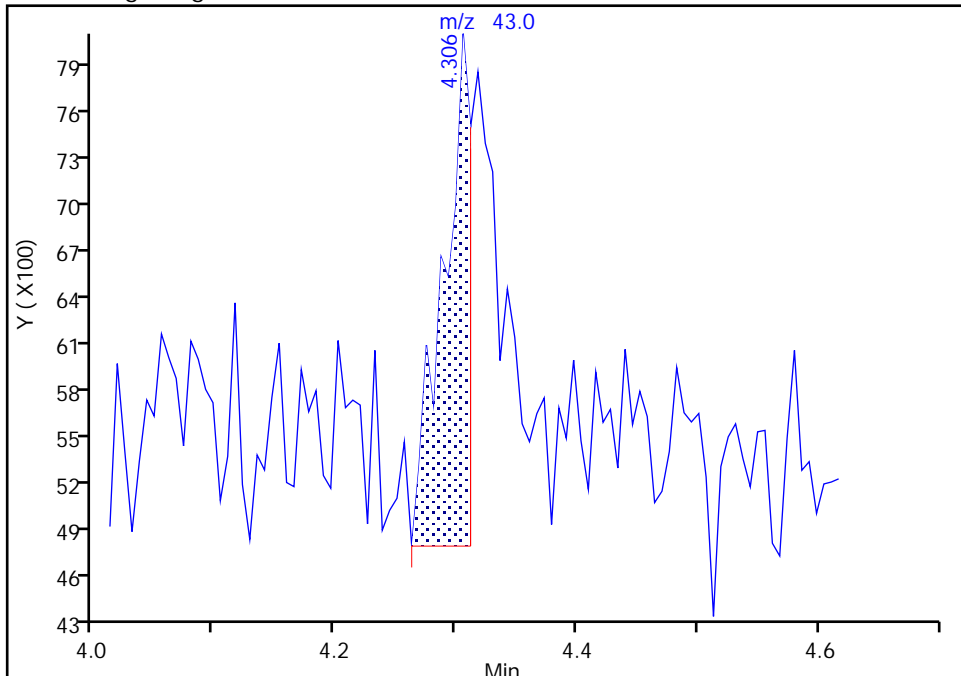
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Signal: 1

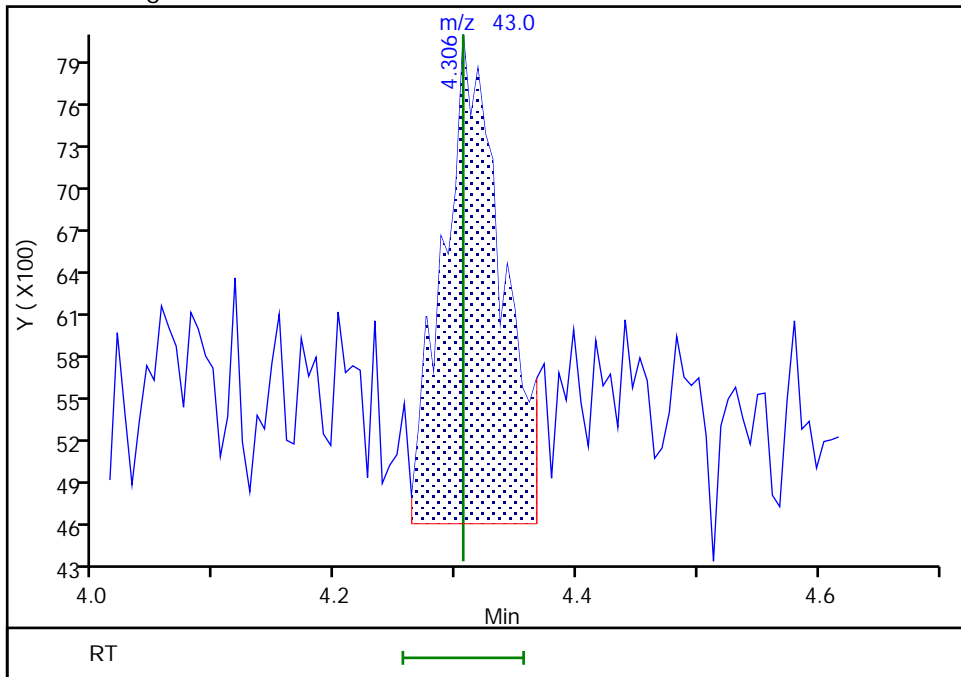
RT: 4.31  
Area: 5163  
Amount: 3.730481  
Amount Units: ug/L

Processing Integration Results



RT: 4.31  
Area: 11559  
Amount: 4.933395  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:09:03  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

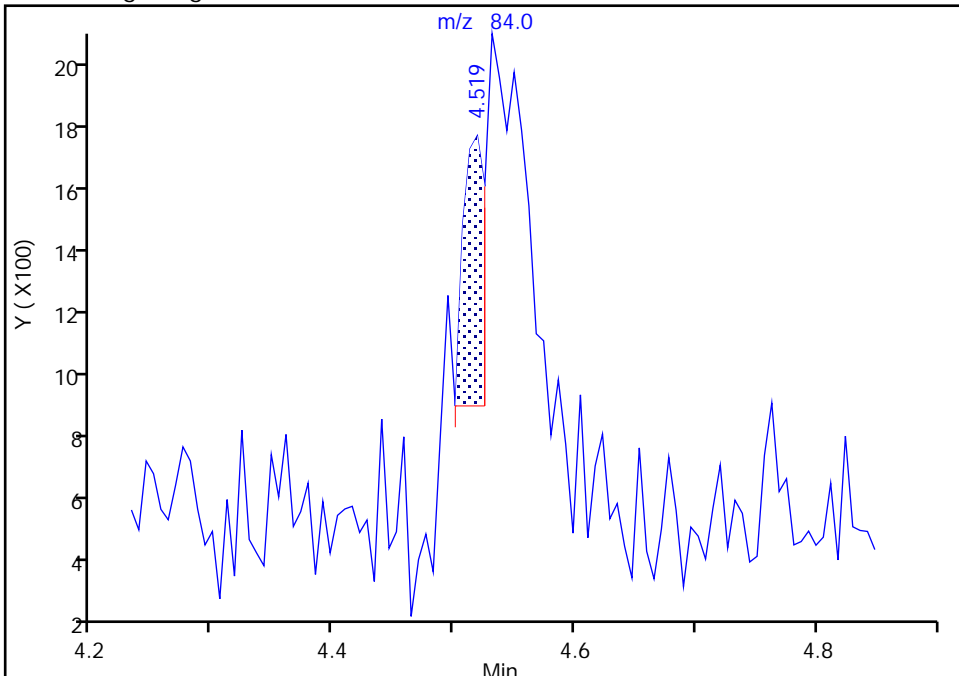
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

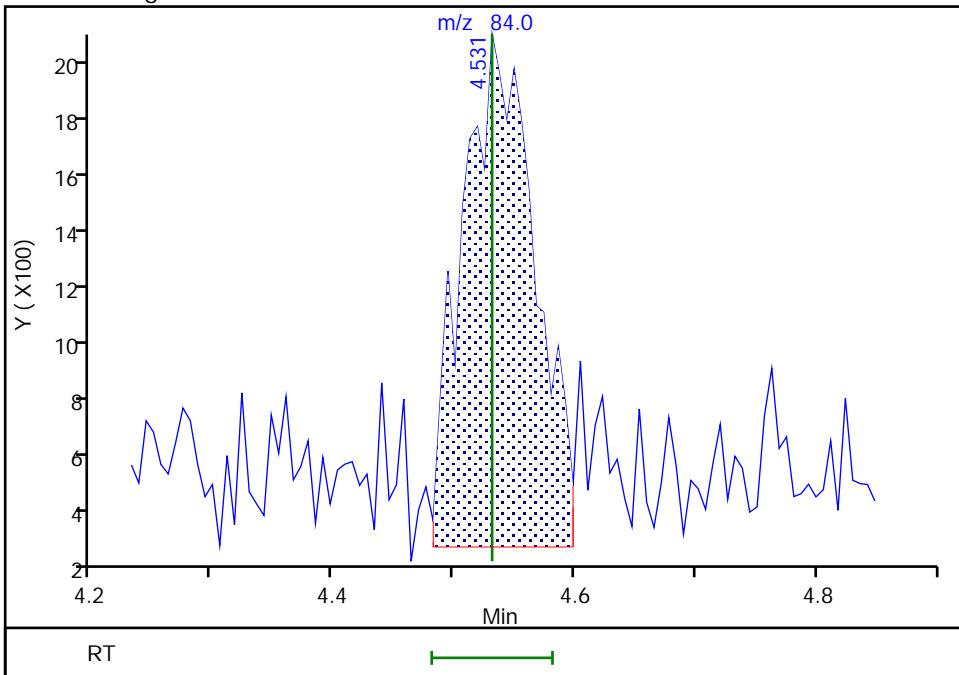
RT: 4.52  
Area: 1011  
Amount: 0.541006  
Amount Units: ug/L

Processing Integration Results



RT: 4.53  
Area: 7078  
Amount: 2.037449  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:09:08  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

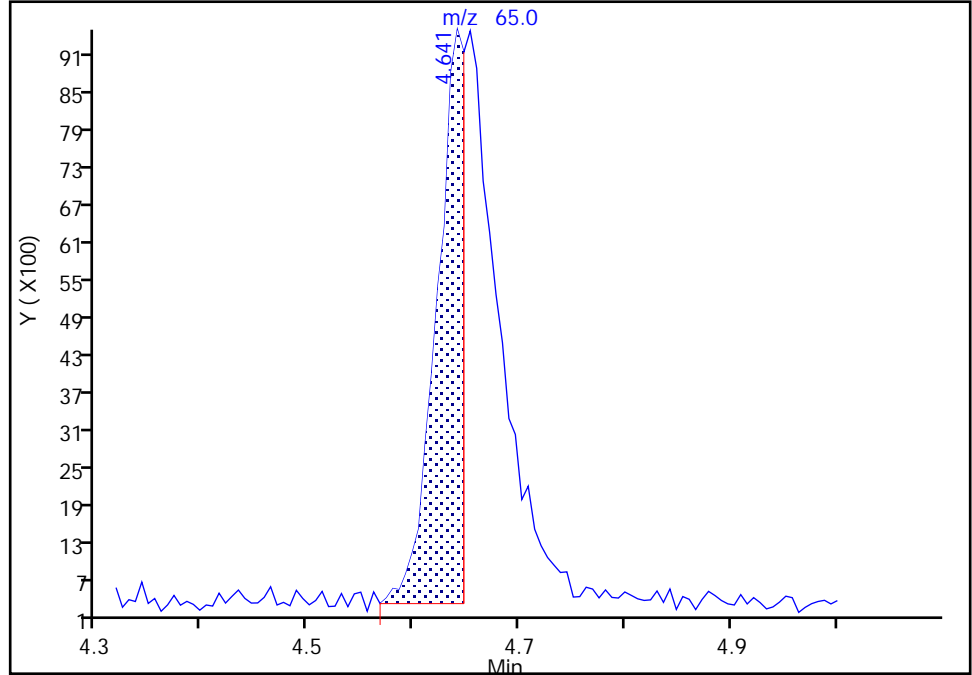
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

\* 18 TBA-d9 (IS), CAS: 25725-11-5

Signal: 1

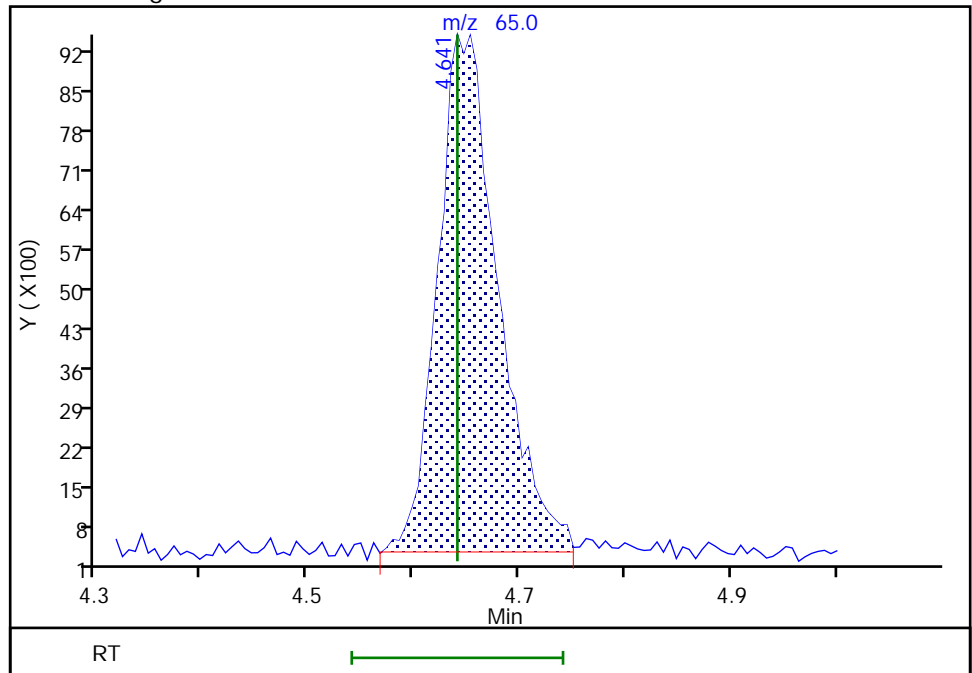
RT: 4.64  
Area: 17148  
Amount: 200.0000  
Amount Units: ug/L

Processing Integration Results



RT: 4.64  
Area: 36383  
Amount: 200.0000  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:09:11  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

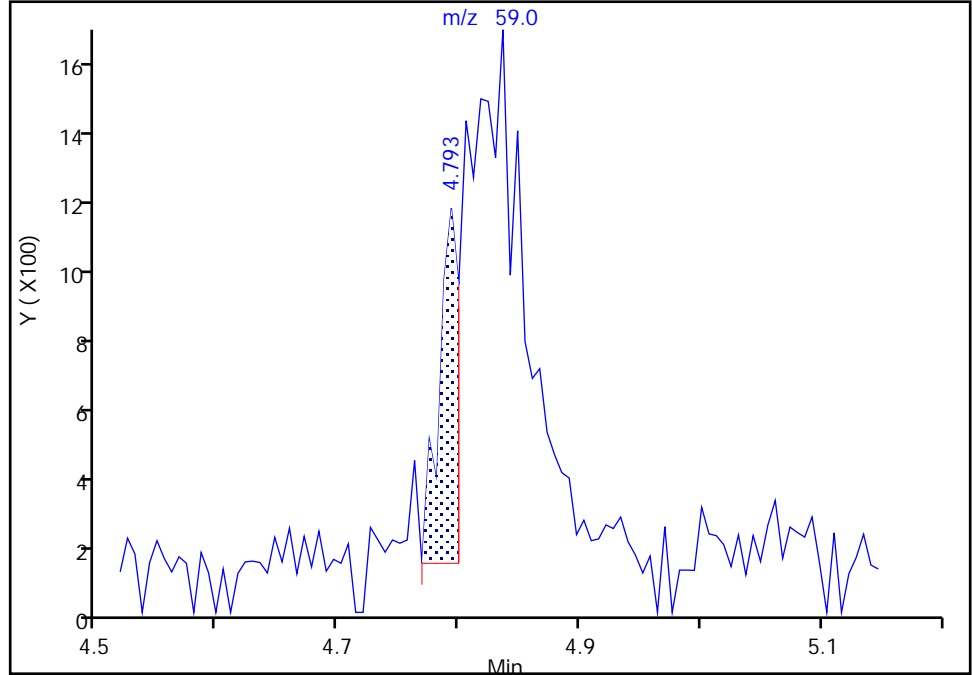
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

20 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

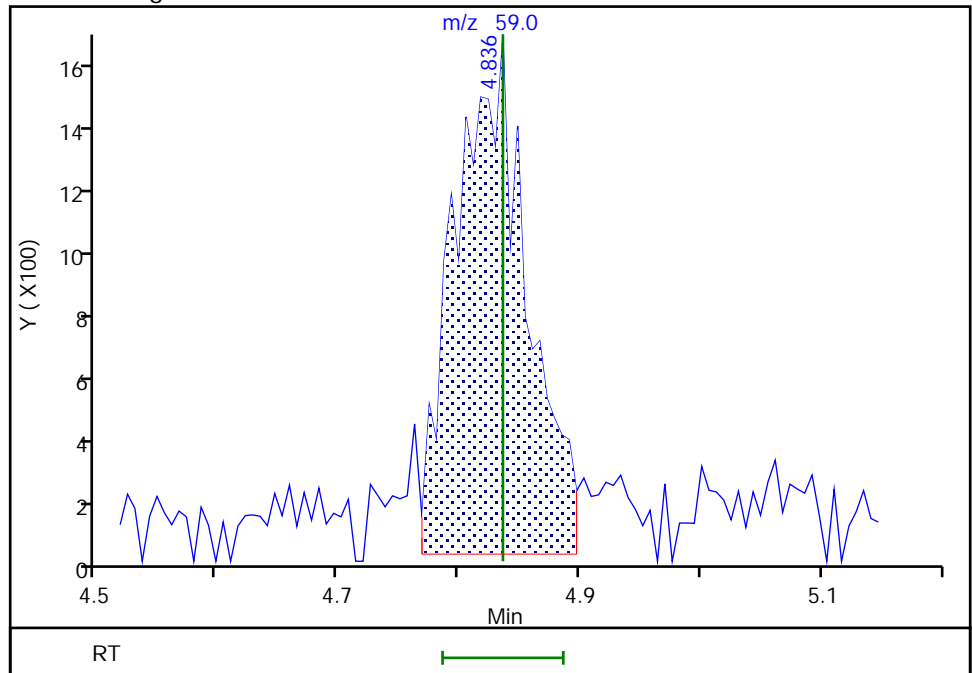
RT: 4.79  
Area: 1147  
Amount: 5.629021  
Amount Units: ug/L

Processing Integration Results



RT: 4.84  
Area: 6626  
Amount: 23.352176  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:09:15  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

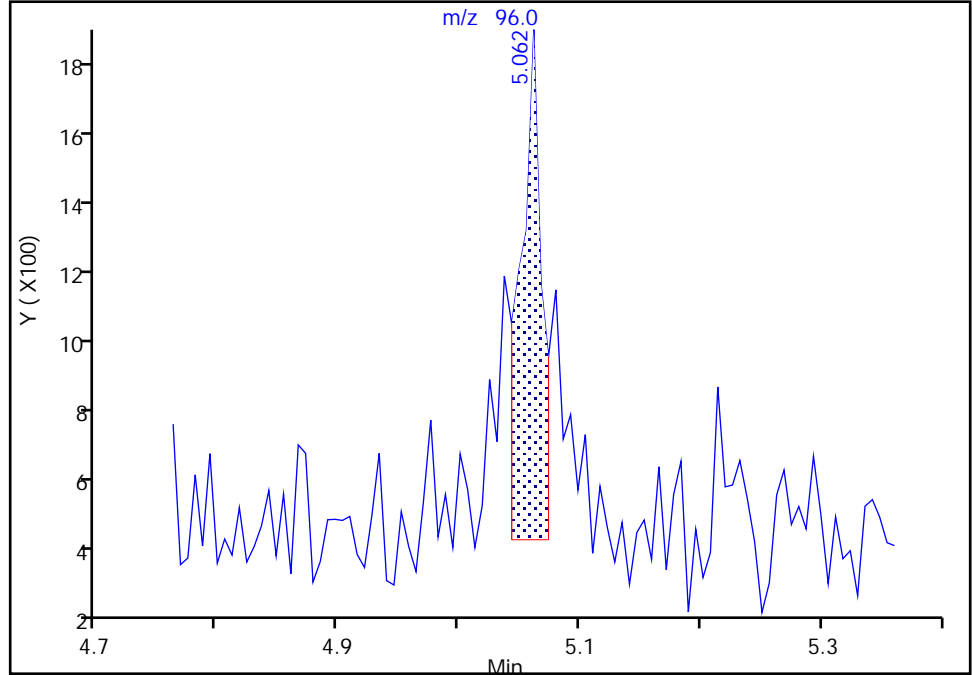
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

27 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

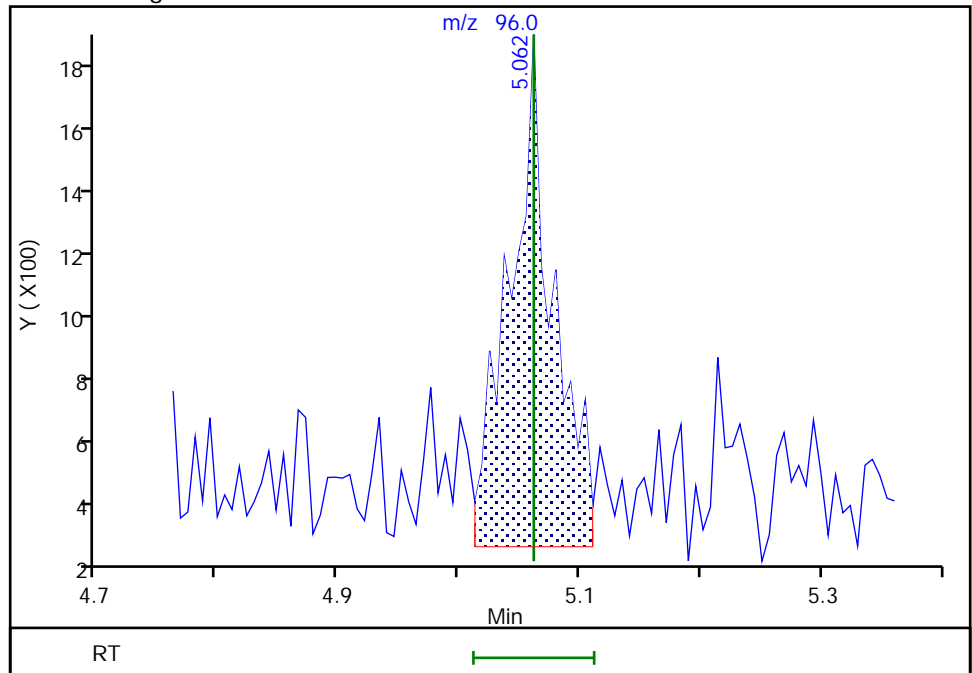
RT: 5.06  
Area: 1748  
Amount: 1.330966  
Amount Units: ug/L

Processing Integration Results



RT: 5.06  
Area: 3881  
Amount: 2.349047  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:09:27  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

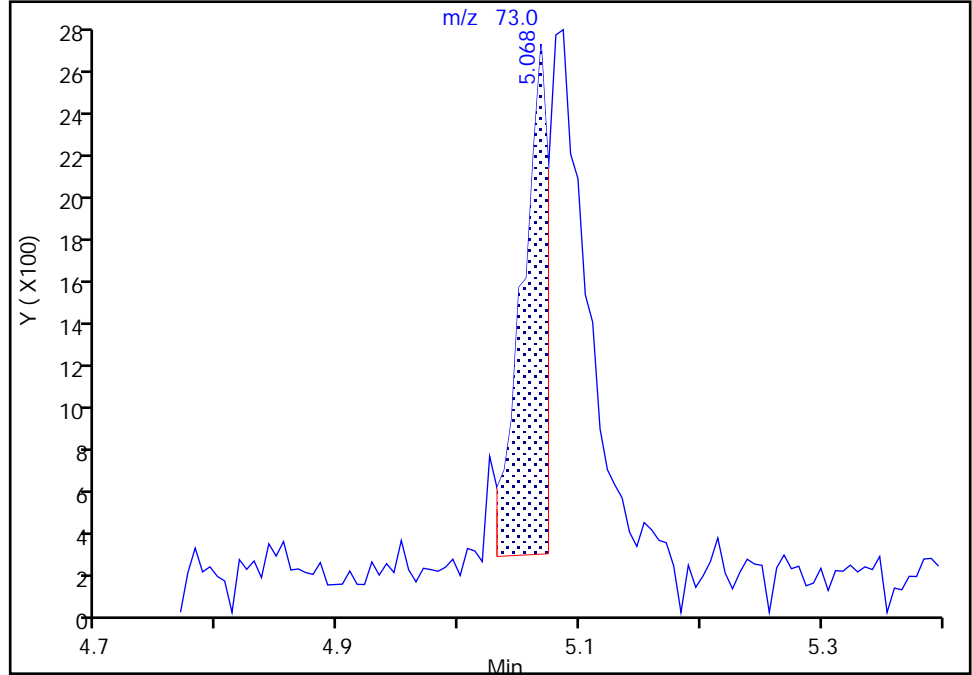
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

28 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

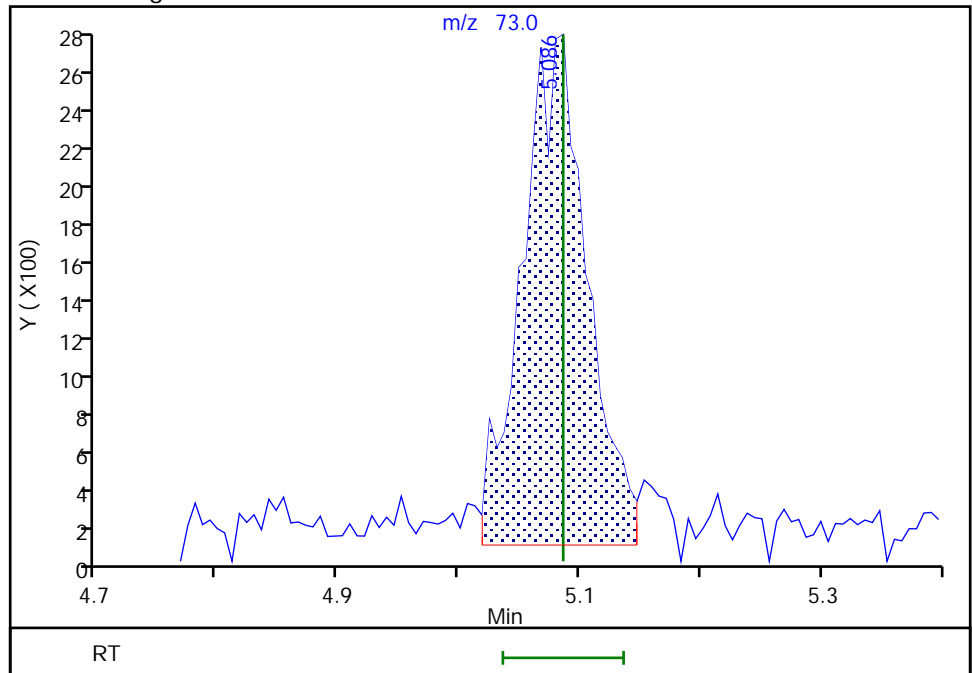
RT: 5.07  
Area: 3709  
Amount: 0.994677  
Amount Units: ug/L

Processing Integration Results



RT: 5.09  
Area: 10034  
Amount: 2.090185  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:09:21  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

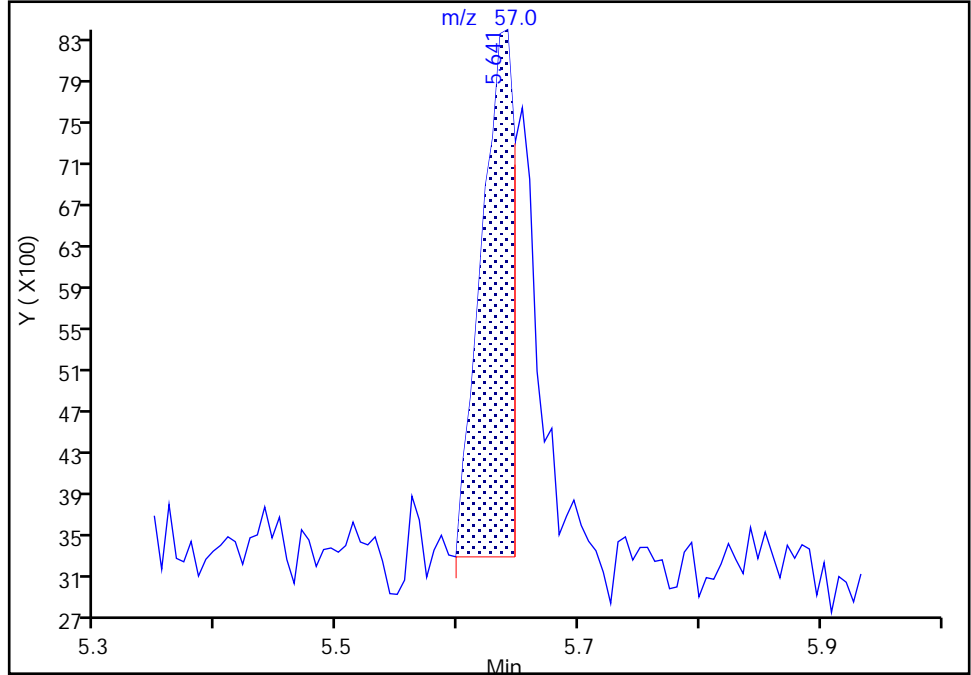
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

34 Hexane, CAS: 110-54-3

Signal: 1

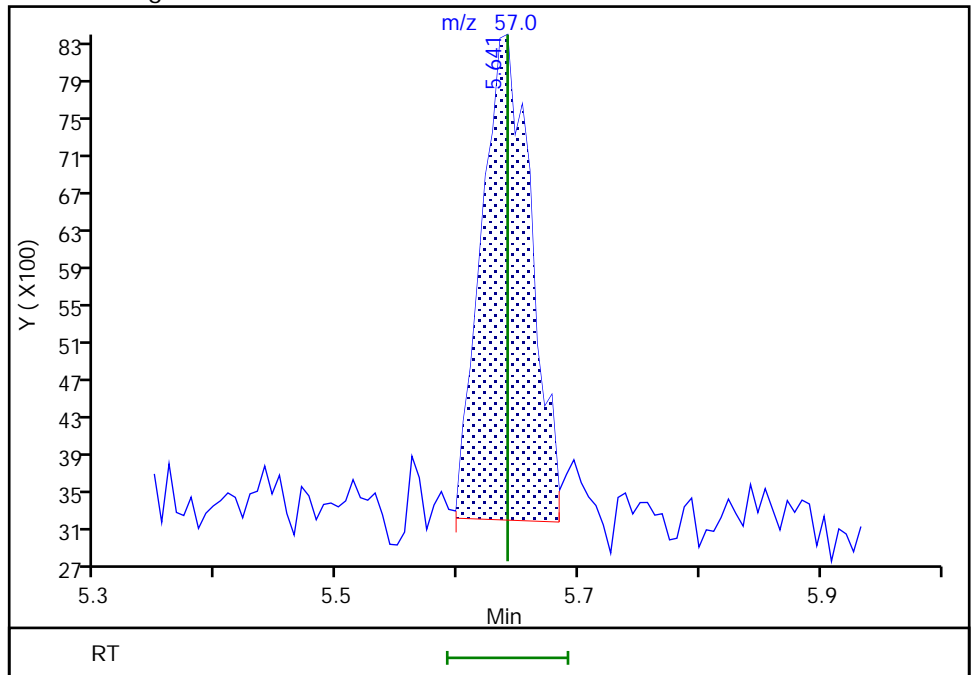
RT: 5.64  
Area: 9698  
Amount: 1.969876  
Amount Units: ug/L

Processing Integration Results



RT: 5.64  
Area: 14689  
Amount: 1.949382  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:09:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

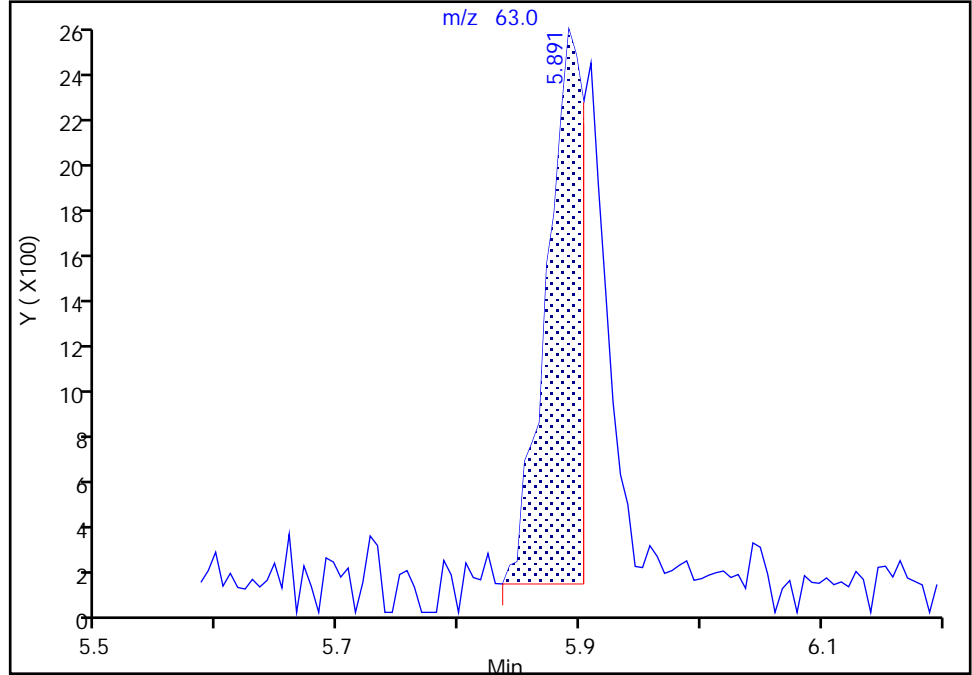
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

30 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

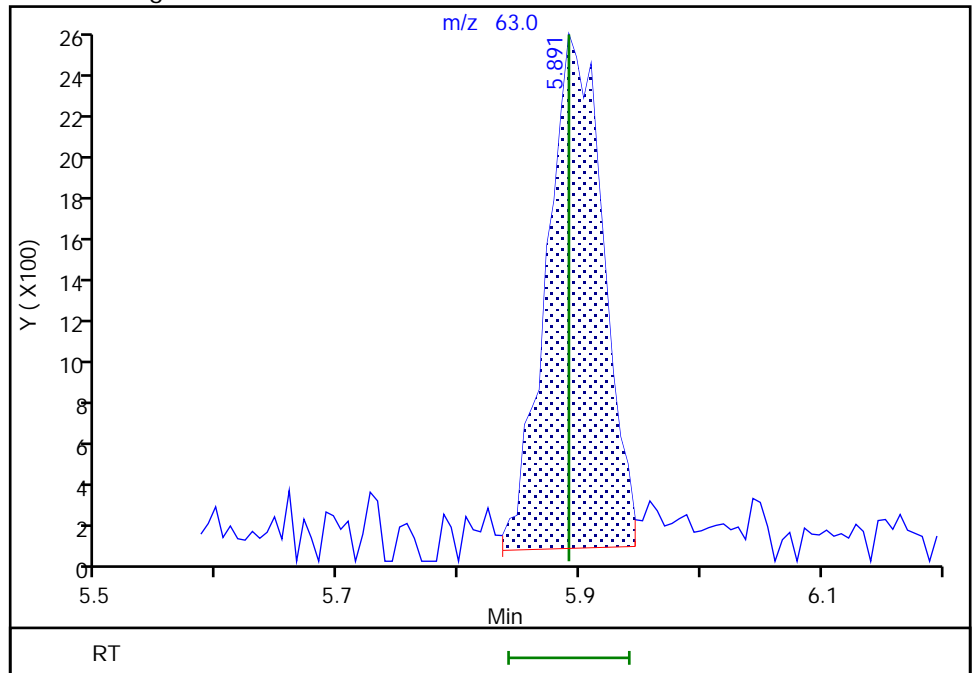
RT: 5.89  
Area: 5061  
Amount: 1.657277  
Amount Units: ug/L

Processing Integration Results



RT: 5.89  
Area: 8024  
Amount: 2.073366  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:09:42  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

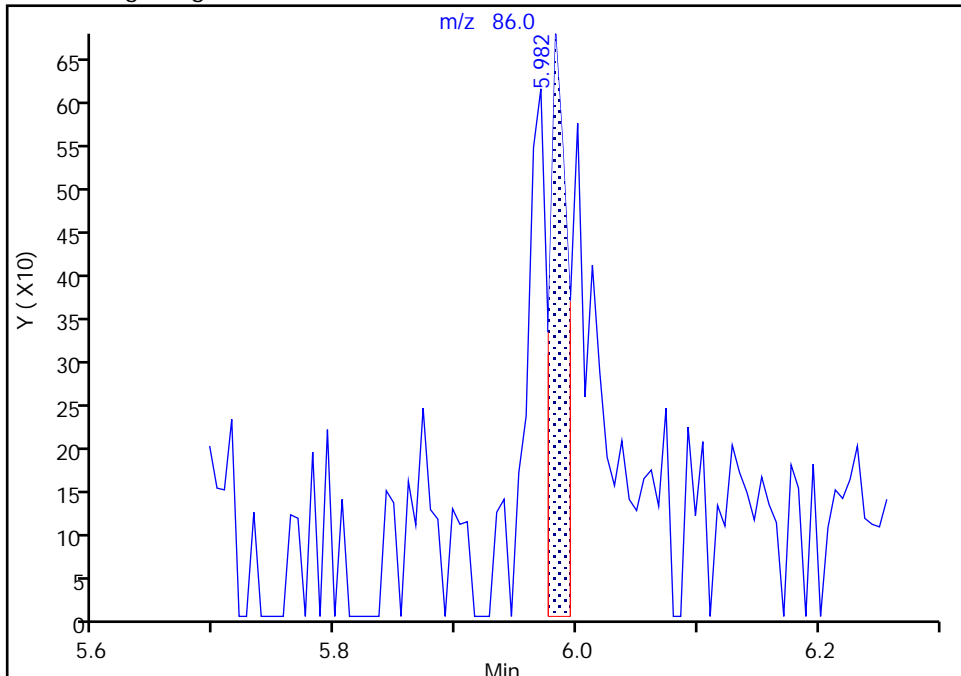
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

31 Vinyl acetate, CAS: 108-05-4

Signal: 1

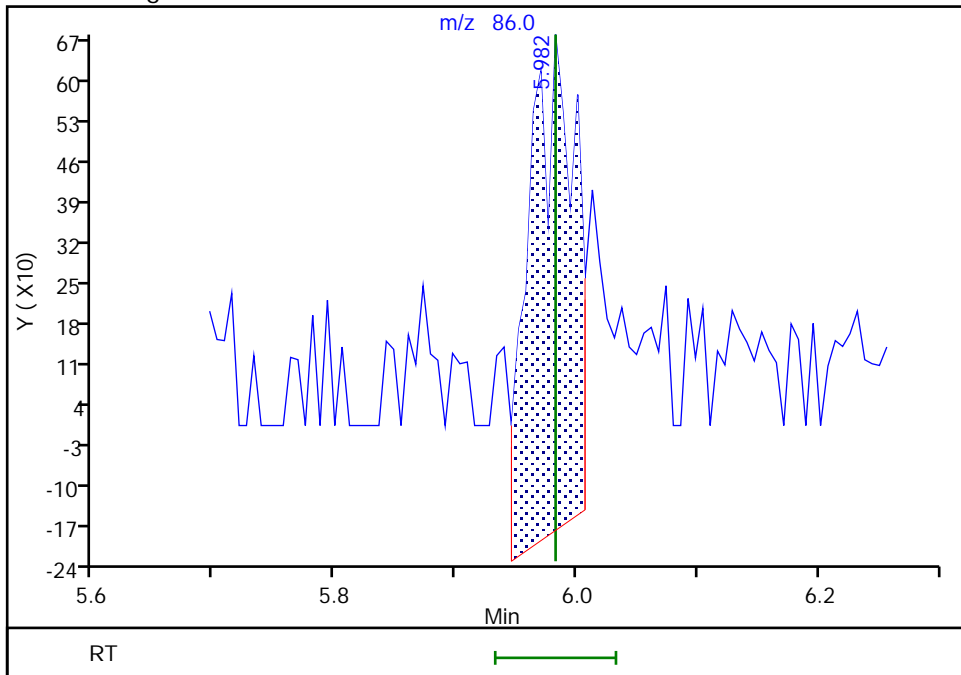
RT: 5.98  
Area: 701  
Amount: 2.441466  
Amount Units: ug/L

Processing Integration Results



RT: 5.98  
Area: 2340  
Amount: 6.315511  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

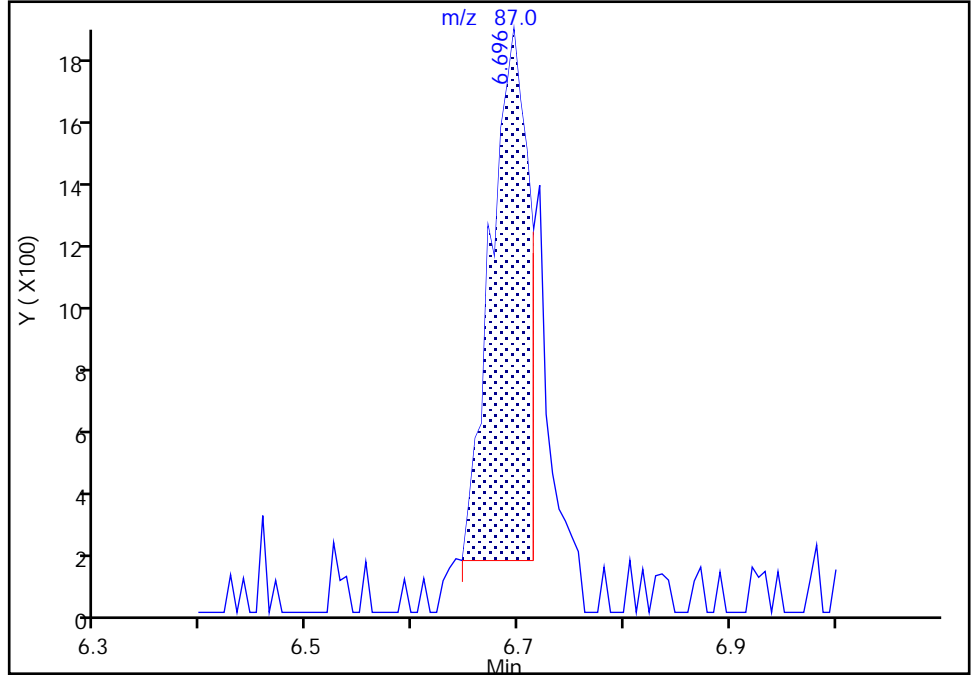
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

41 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

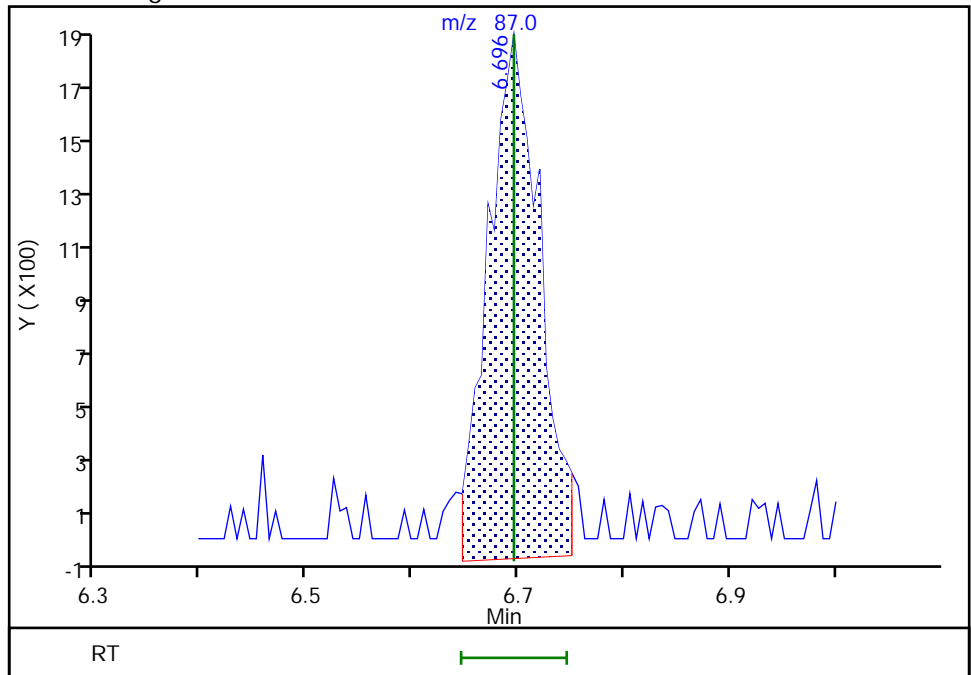
RT: 6.70  
Area: 4238  
Amount: 2.319942  
Amount Units: ug/L

Processing Integration Results



RT: 6.70  
Area: 6674  
Amount: 3.051162  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:09:51  
Audit Action: Manually Integrated

Euofins TestAmerica, Seattle

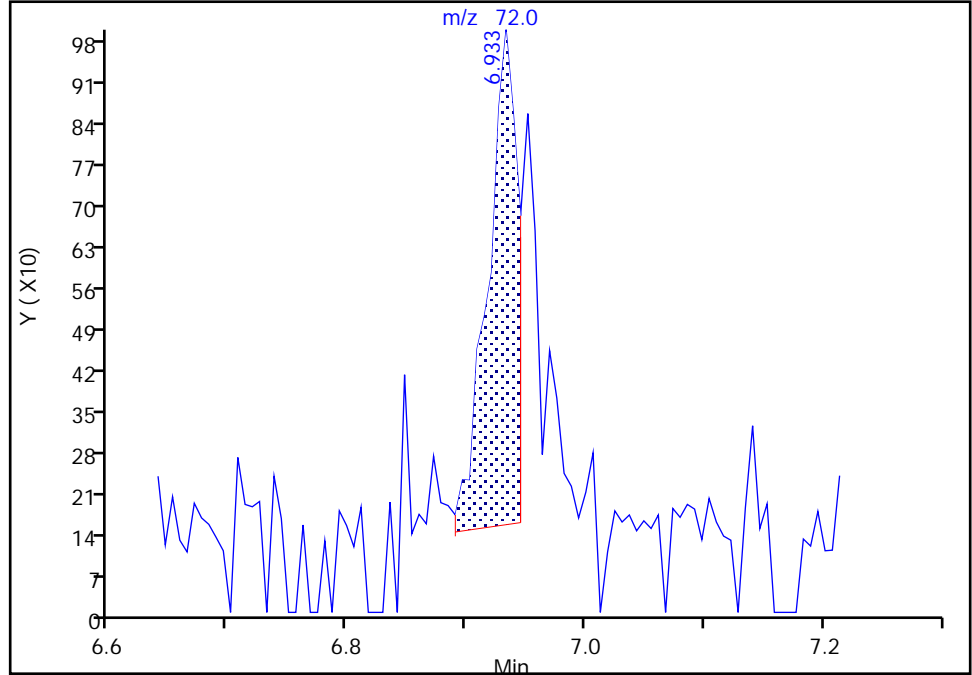
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

33 2-Butanone (MEK), CAS: 78-93-3

Signal: 2

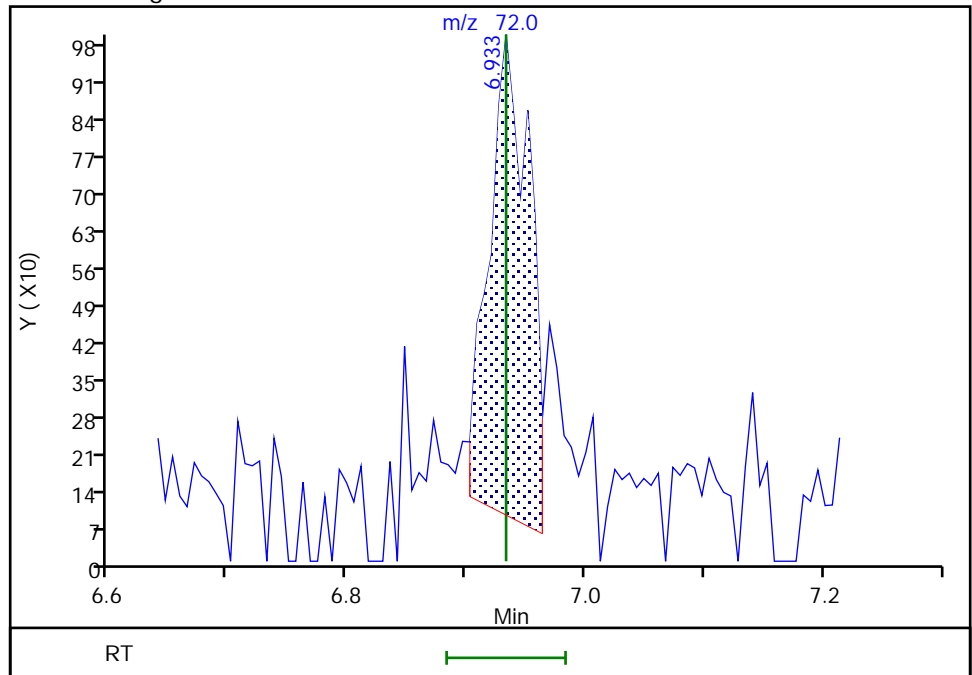
RT: 6.93  
Area: 1492  
Amount: 8.253625  
Amount Units: ug/L

Processing Integration Results



RT: 6.93  
Area: 2175  
Amount: 10.828158  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:10:00  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

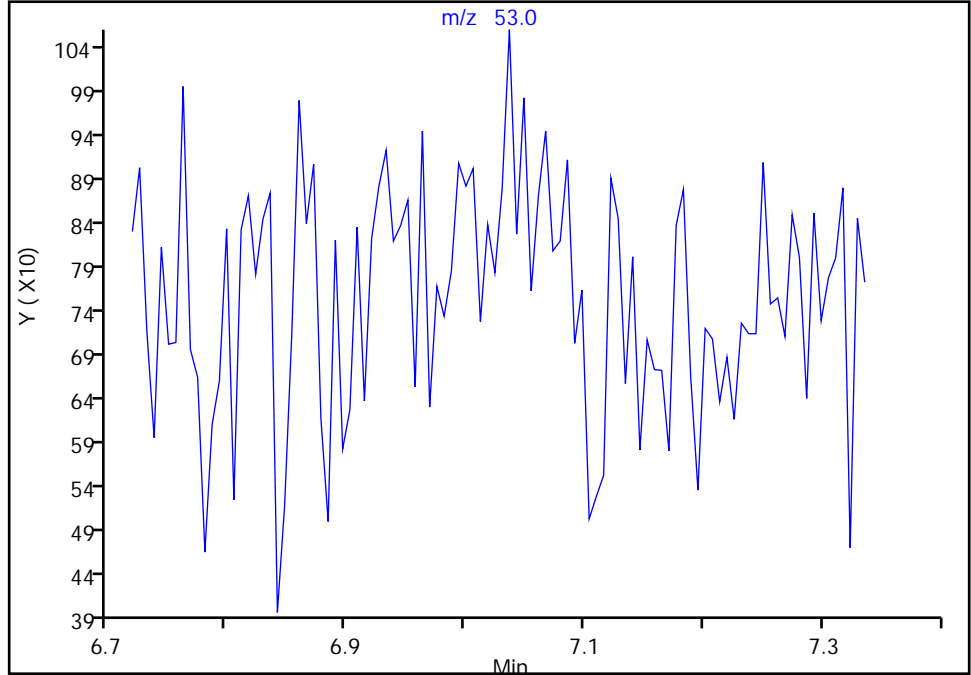
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

29 Propionitrile, CAS: 107-12-0

Signal: 2

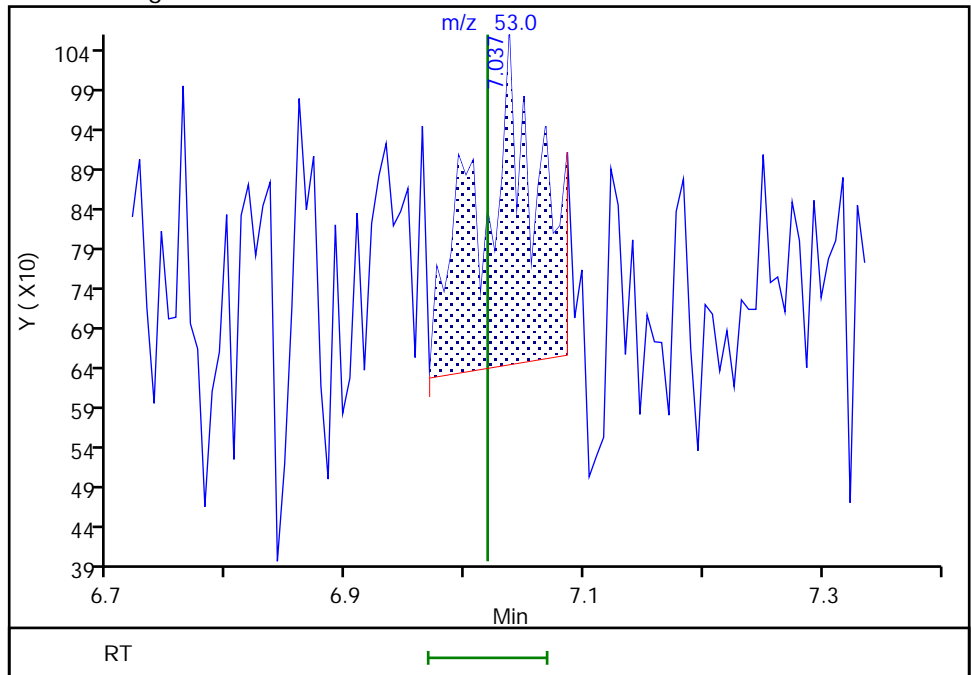
Not Detected  
Expected RT: 7.02

Processing Integration Results



Manual Integration Results

RT: 7.04  
Area: 1467  
Amount: 24.545704  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 14:10:04  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

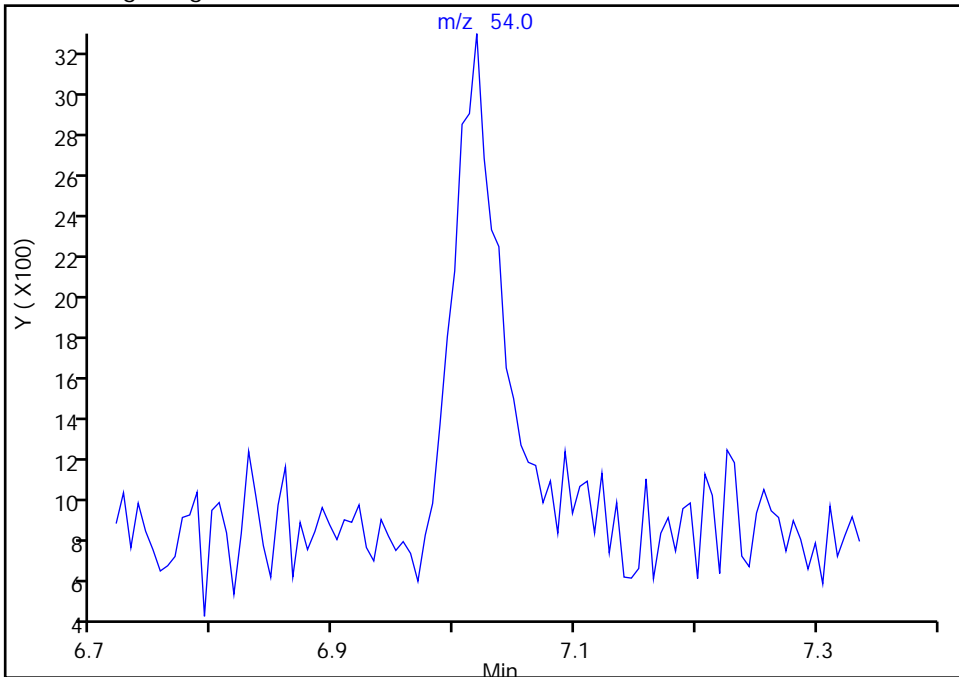
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

29 Propionitrile, CAS: 107-12-0

Signal: 1

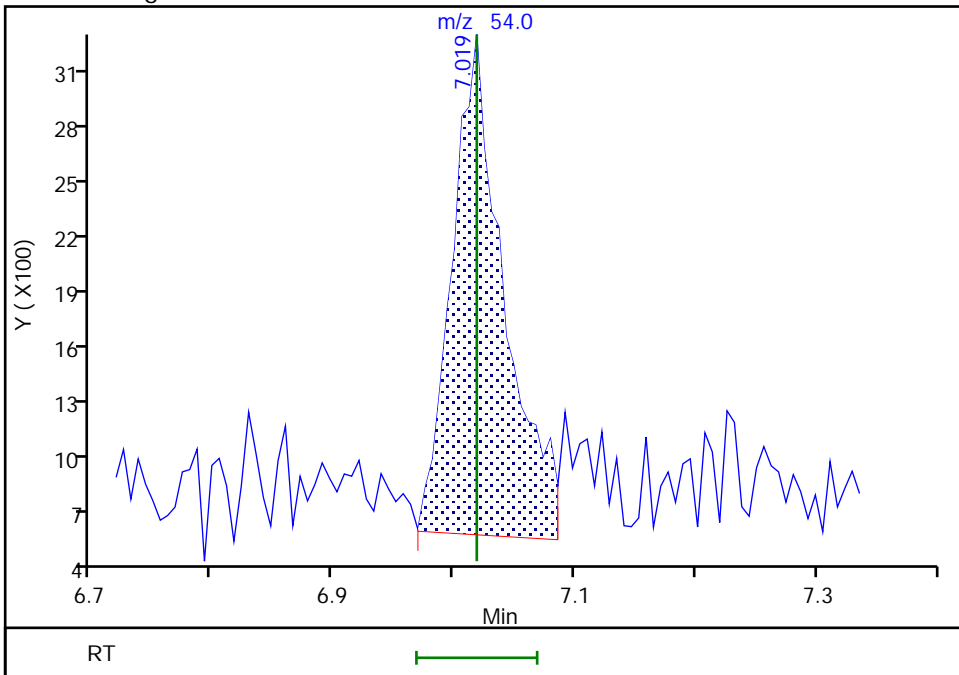
Not Detected  
Expected RT: 7.02

Processing Integration Results



Manual Integration Results

RT: 7.02  
Area: 7921  
Amount: 24.545704  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 14:10:10

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

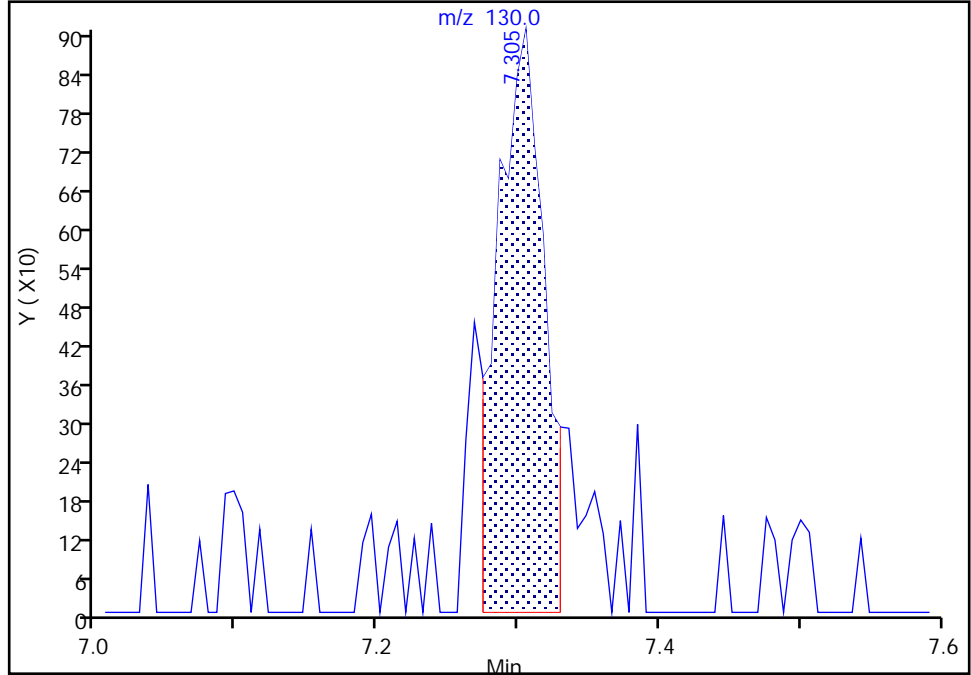
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

**39 Chlorobromomethane, CAS: 74-97-5**

Signal: 1

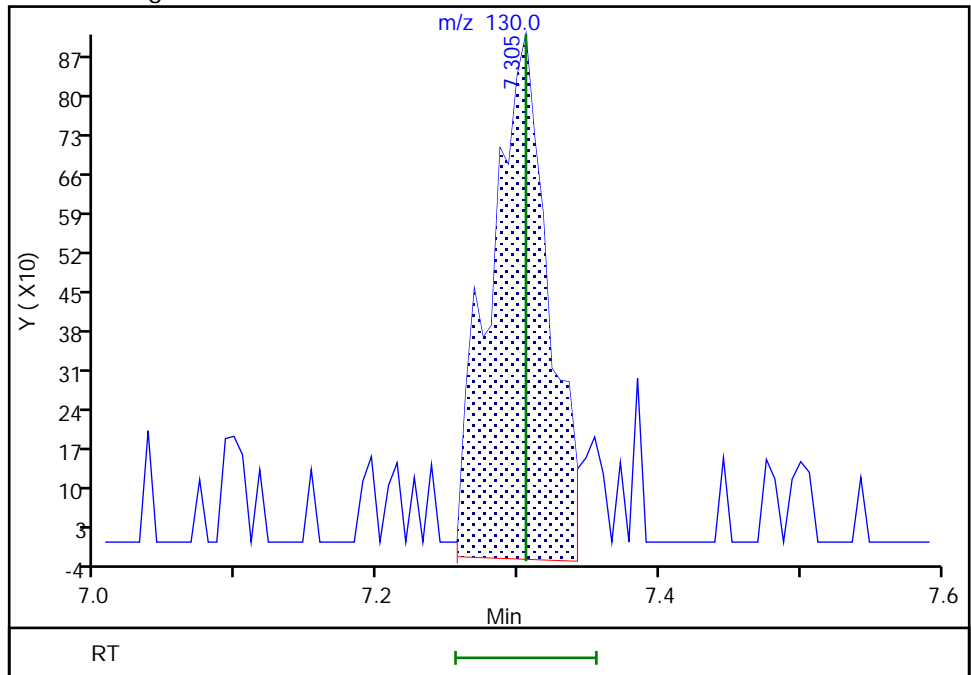
RT: 7.31  
Area: 2102  
Amount: 2.237766  
Amount Units: ug/L

Processing Integration Results



RT: 7.31  
Area: 2680  
Amount: 2.435932  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:10:16  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

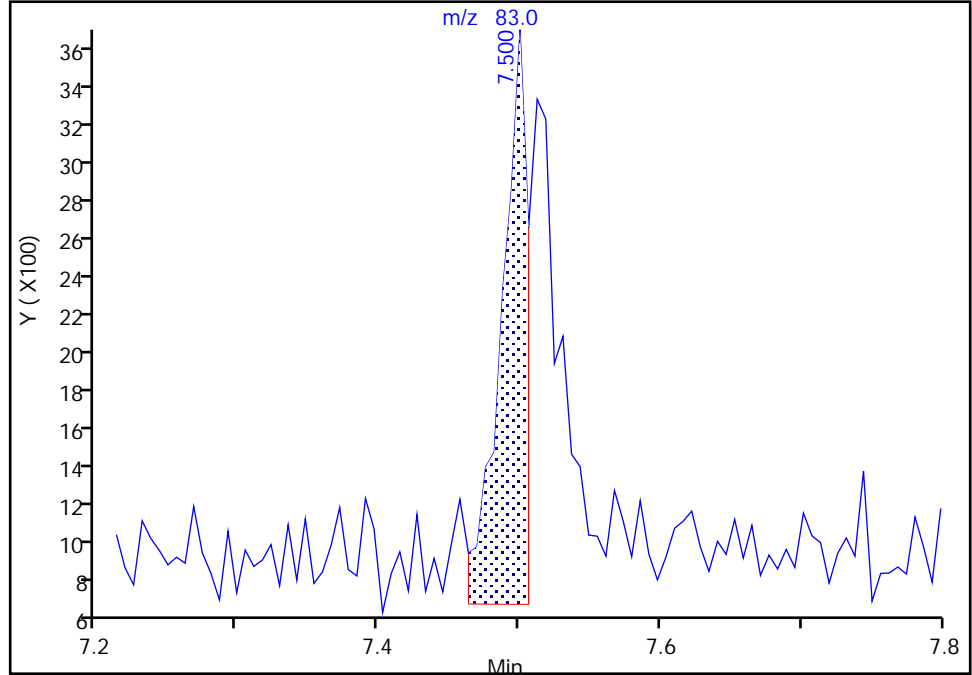
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Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

40 Chloroform, CAS: 67-66-3

Signal: 1

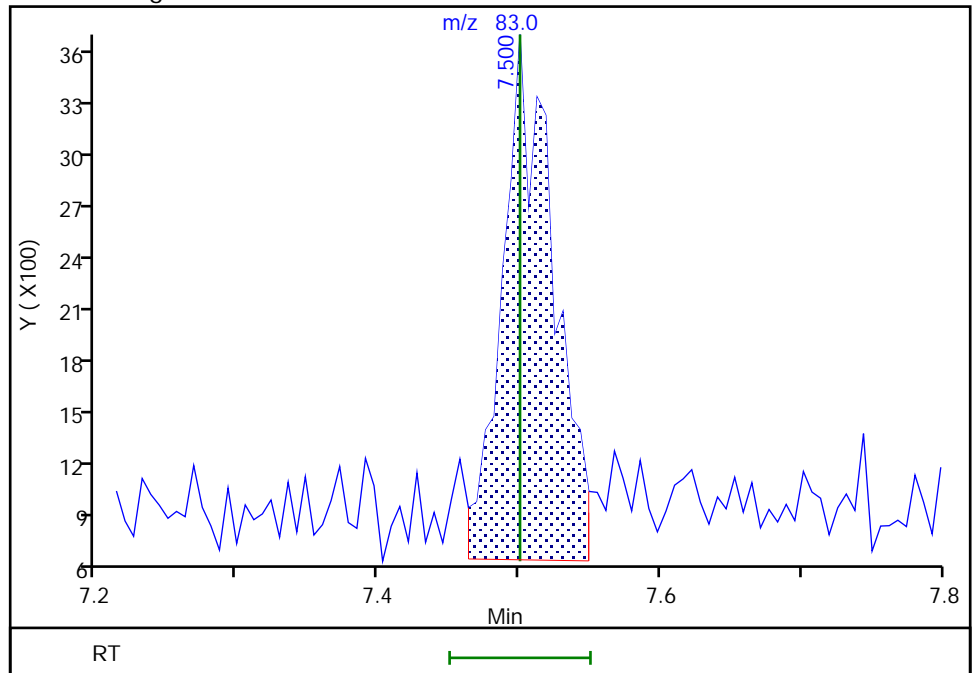
RT: 7.50  
Area: 3904  
Amount: 1.520760  
Amount Units: ug/L

Processing Integration Results



RT: 7.50  
Area: 7577  
Amount: 2.289461  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:10:21  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

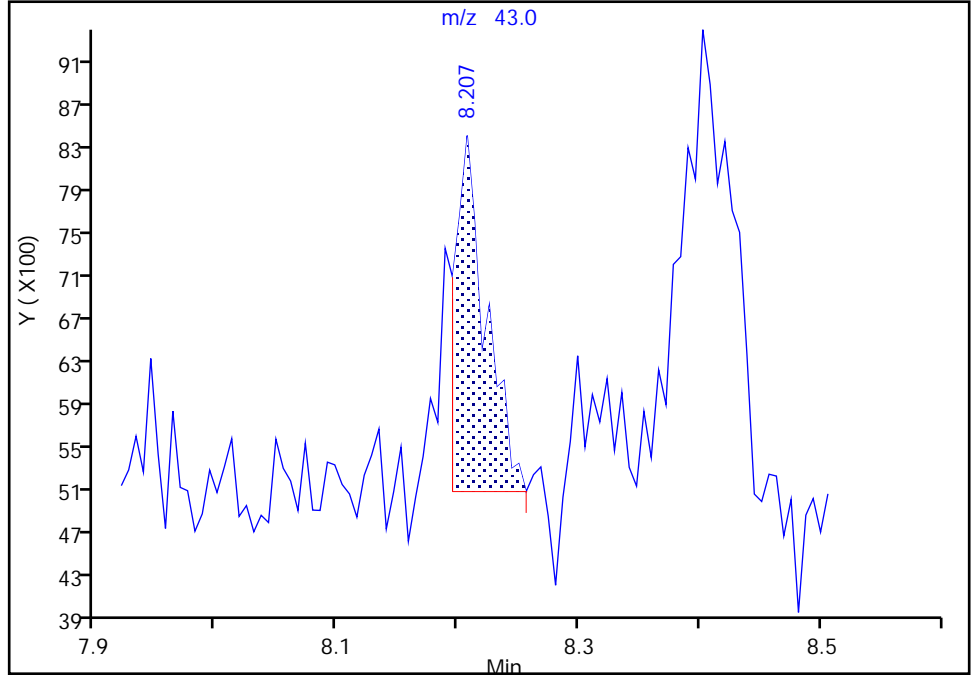
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Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

42 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

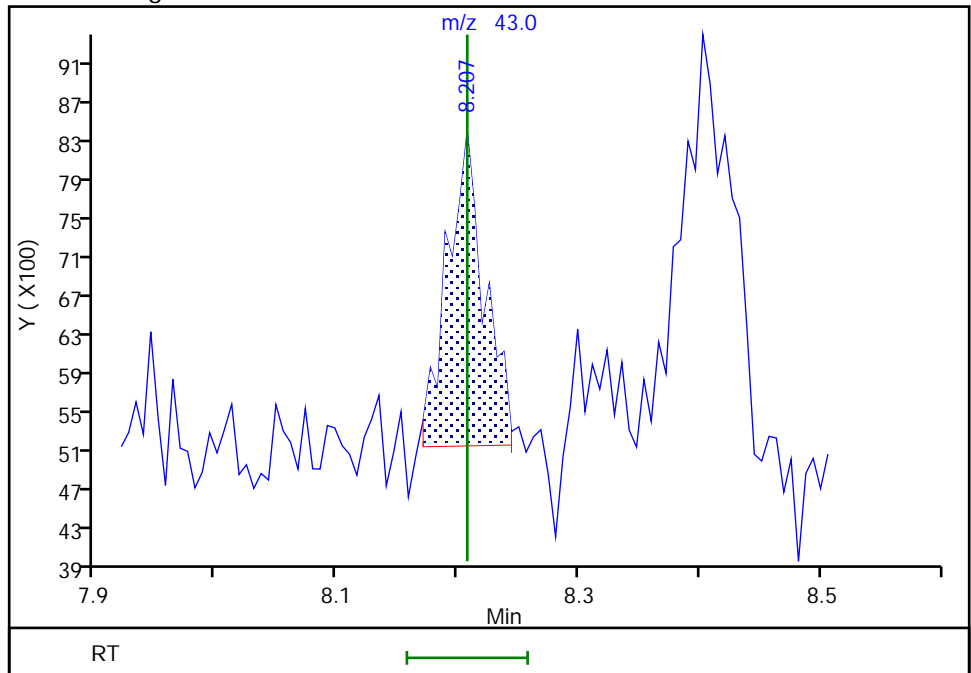
RT: 8.21  
Area: 5799  
Amount: 37.934374  
Amount Units: ug/L

Processing Integration Results



RT: 8.21  
Area: 6899  
Amount: 49.894651  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:51:21  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

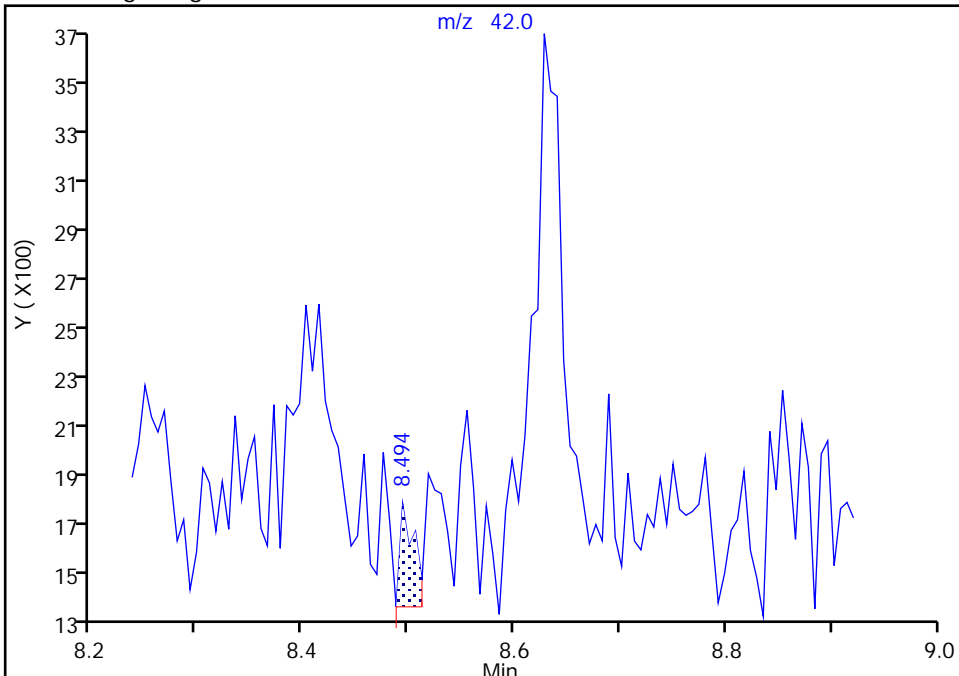
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

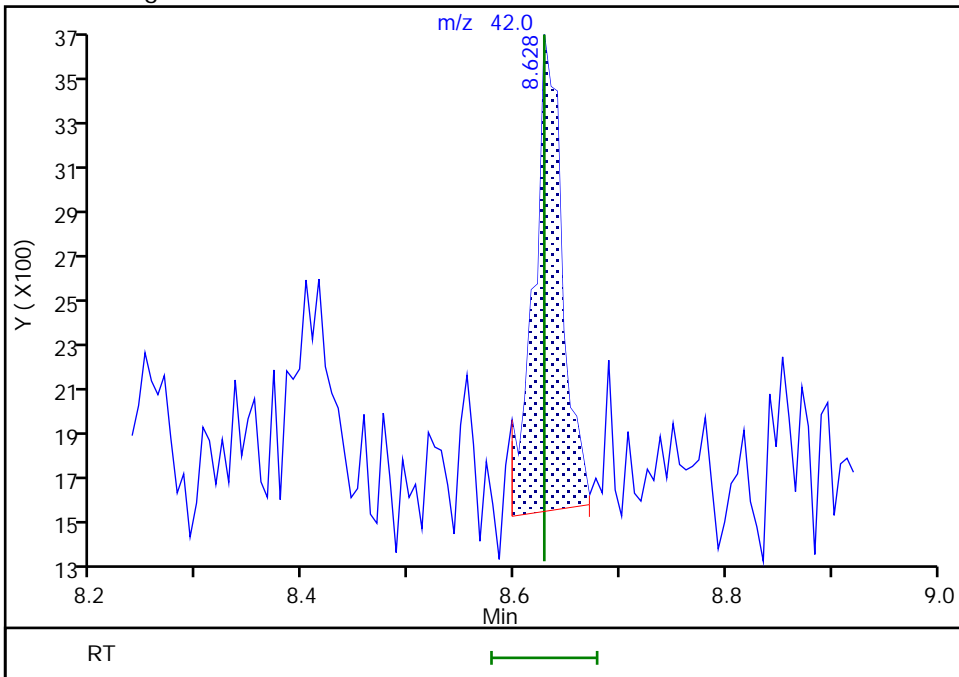
RT: 8.49  
Area: 378  
Amount: 3.208750  
Amount Units: ug/L

Processing Integration Results



RT: 8.63  
Area: 3877  
Amount: 4.922002  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:05:32  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Seattle

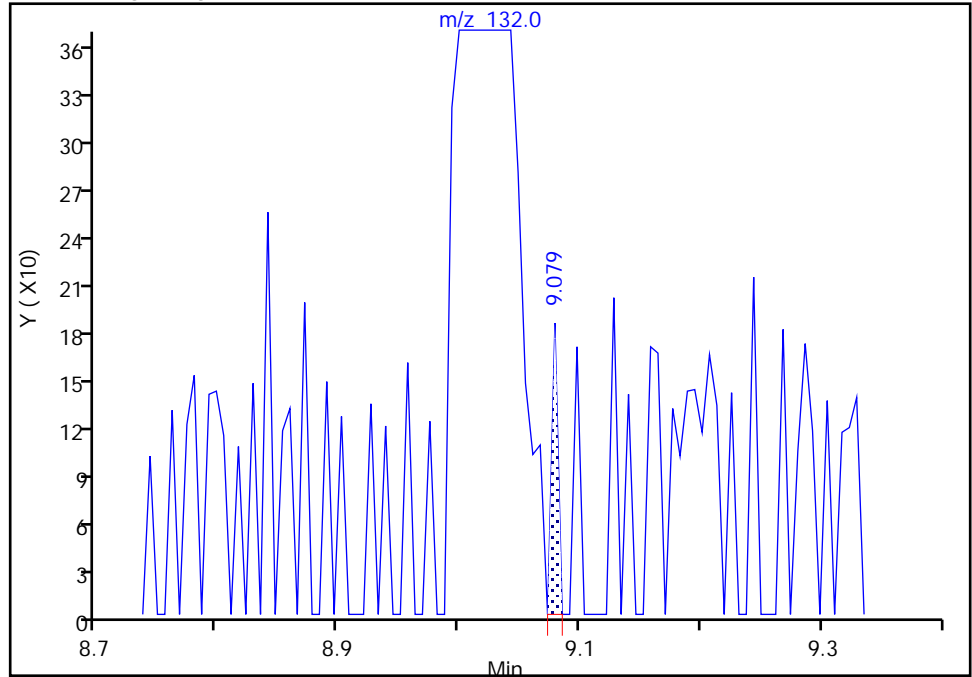
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

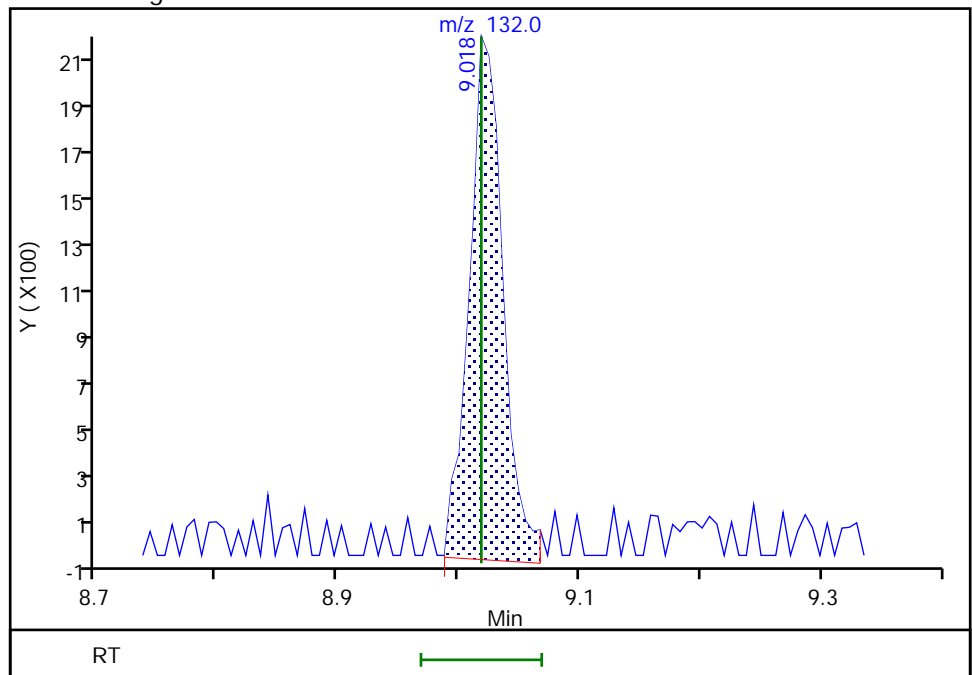
RT: 9.08  
Area: 67  
Amount: 0.048304  
Amount Units: ug/L

Processing Integration Results



RT: 9.02  
Area: 4278  
Amount: 2.249073  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:10:43  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

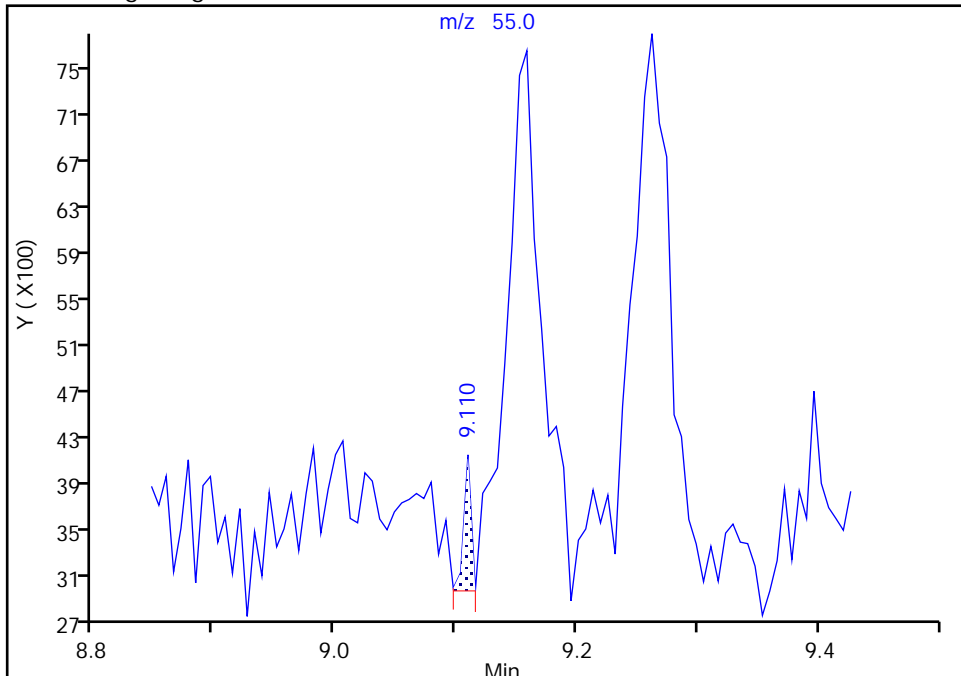
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

57 Ethyl acrylate, CAS: 140-88-5

Signal: 1

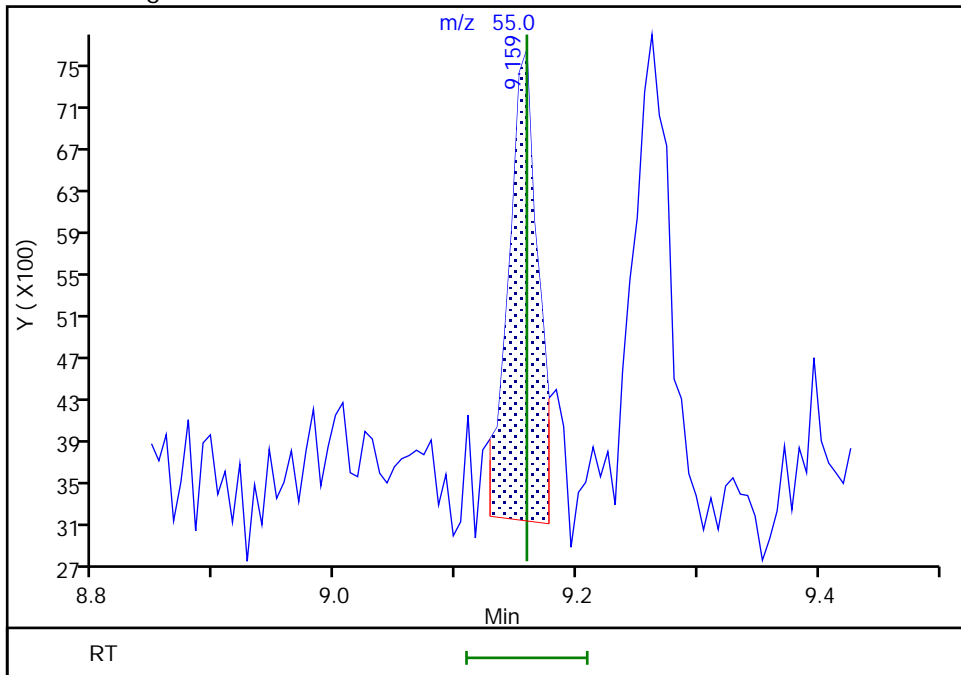
RT: 9.11  
Area: 496  
Amount: 0.175161  
Amount Units: ug/L

Processing Integration Results



RT: 9.16  
Area: 7746  
Amount: 2.131029  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:52:53  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

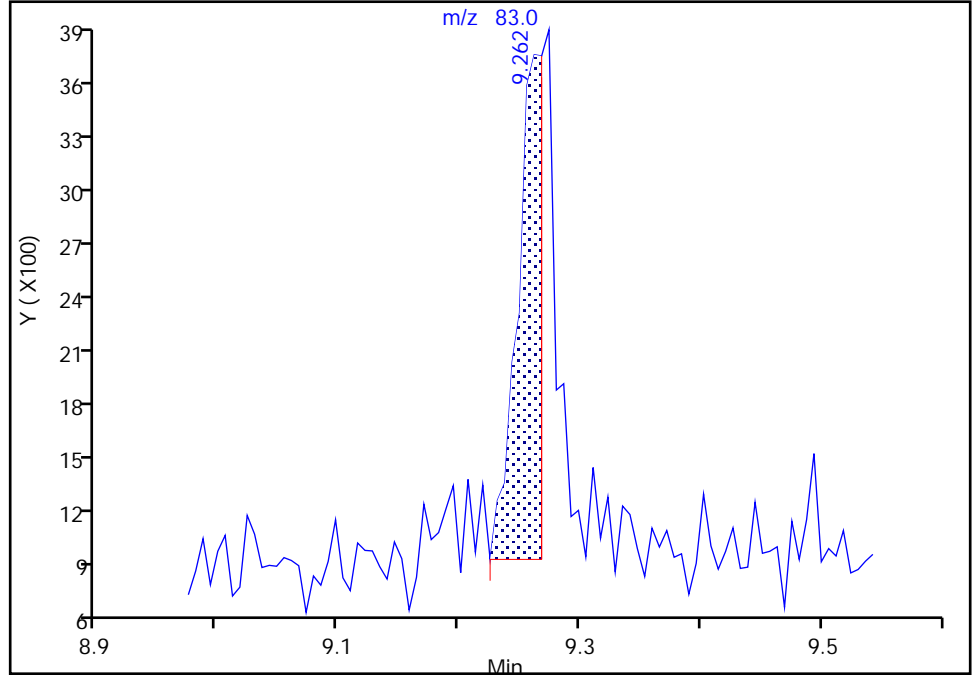
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

66 Methylcyclohexane, CAS: 108-87-2

Signal: 1

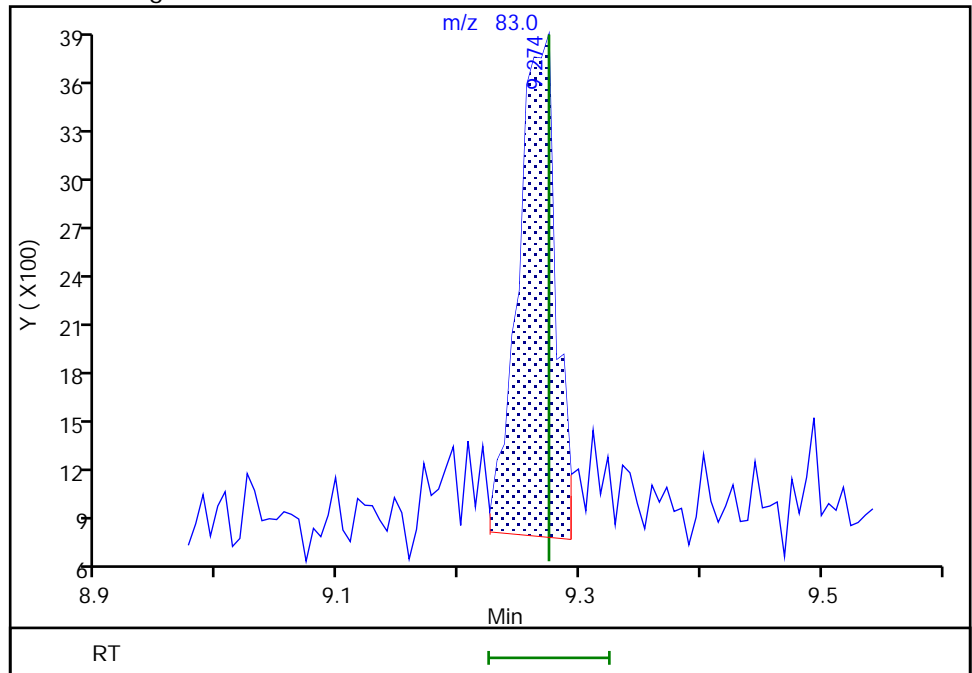
RT: 9.26  
Area: 4187  
Amount: 1.392509  
Amount Units: ug/L

Processing Integration Results



RT: 9.27  
Area: 6651  
Amount: 2.141259  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:10:51  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

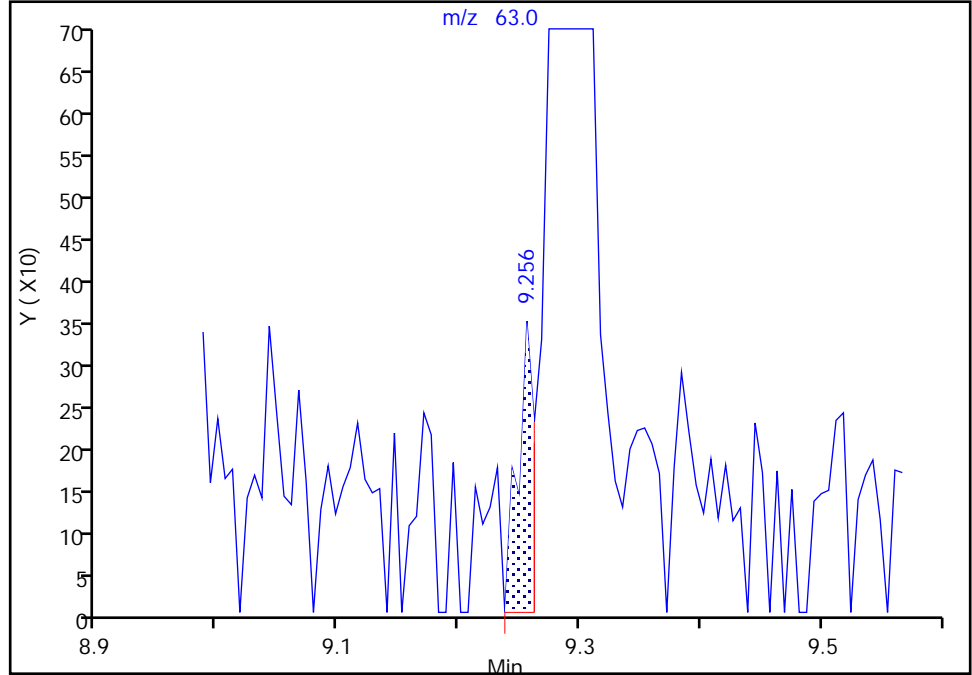
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

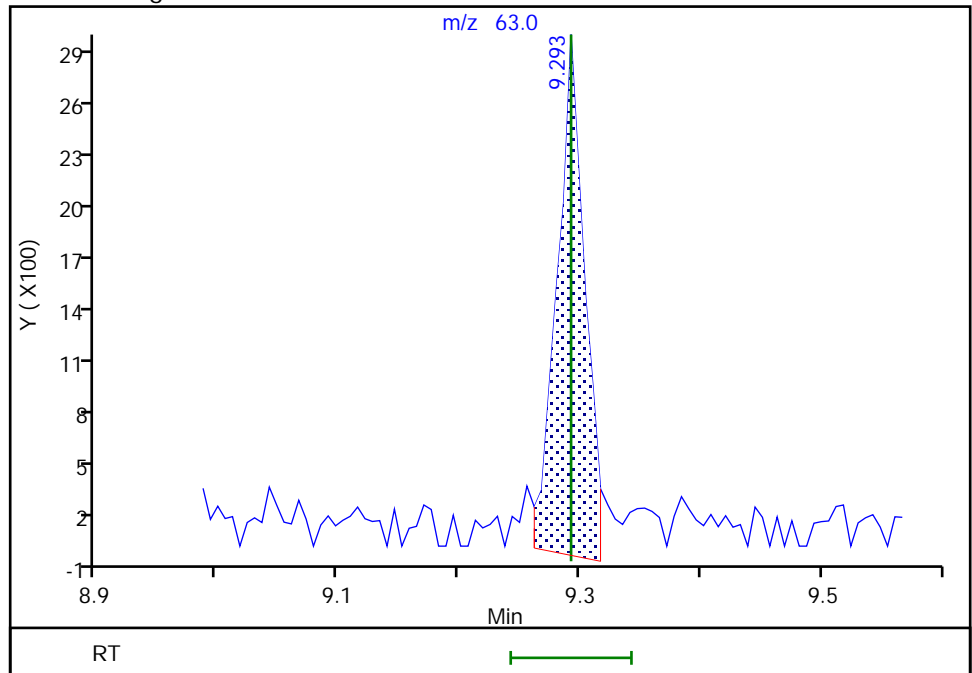
RT: 9.26  
Area: 322  
Amount: 0.188699  
Amount Units: ug/L

Processing Integration Results



RT: 9.29  
Area: 4834  
Amount: 2.165342  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:10:56  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

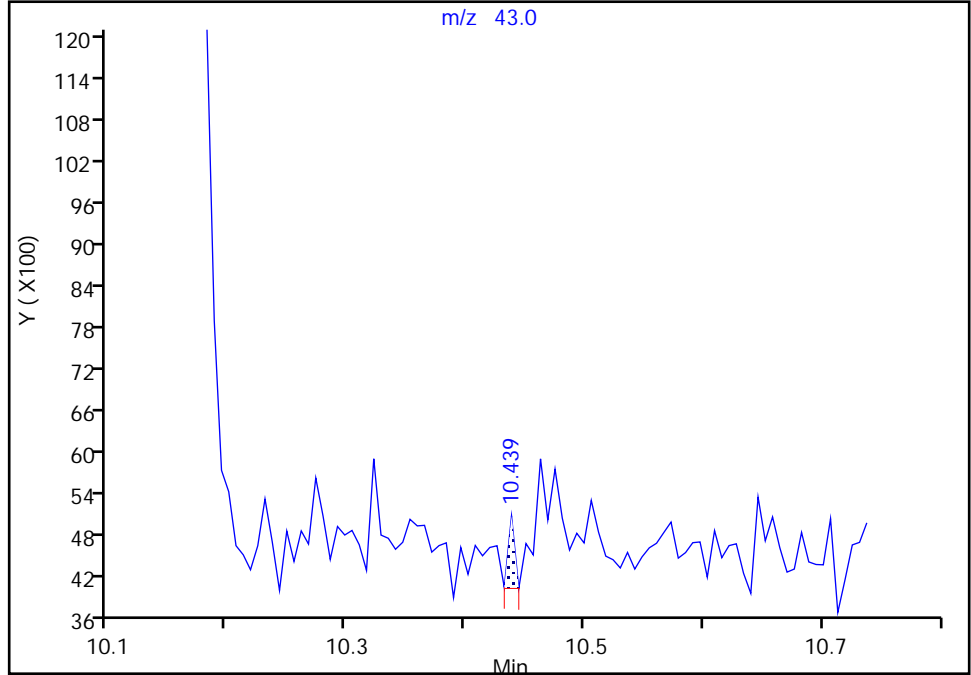
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

70 n-Butyl acetate, CAS: 123-86-4

Signal: 1

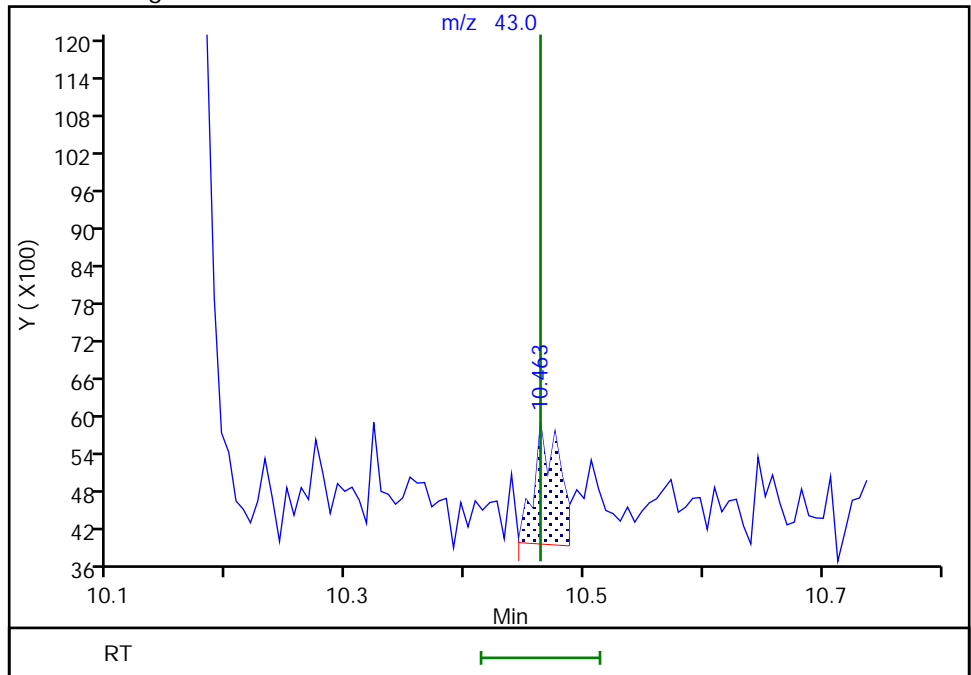
RT: 10.44  
Area: 389  
Amount: 0.559818  
Amount Units: ug/L

Processing Integration Results



RT: 10.46  
Area: 2885  
Amount: 4.559040  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 14:11:05  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

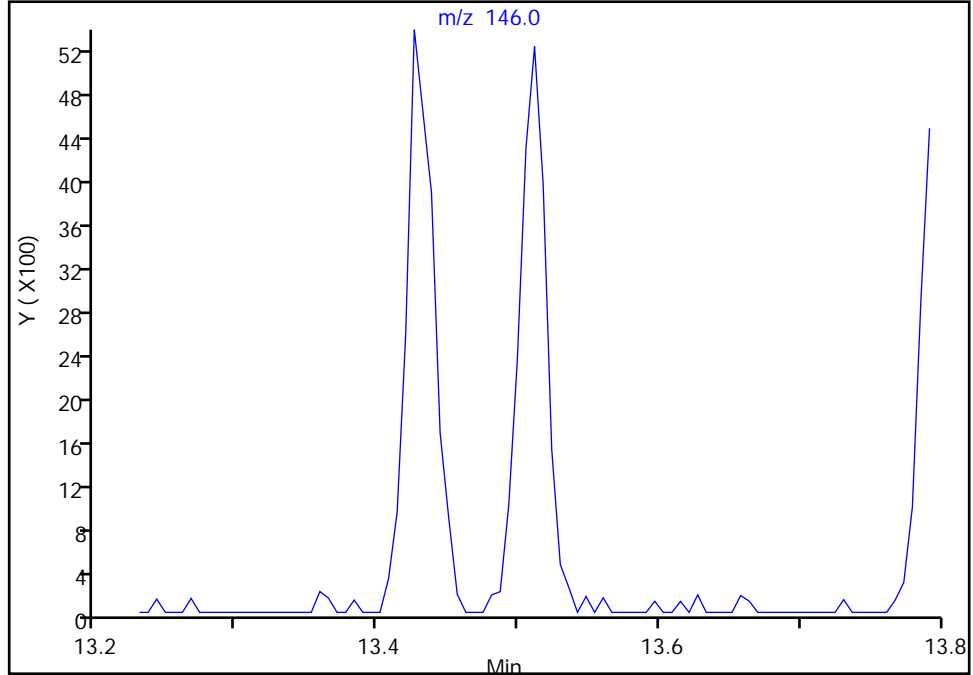
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_004.D  
Injection Date: 01-Oct-2020 17:47:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

104 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

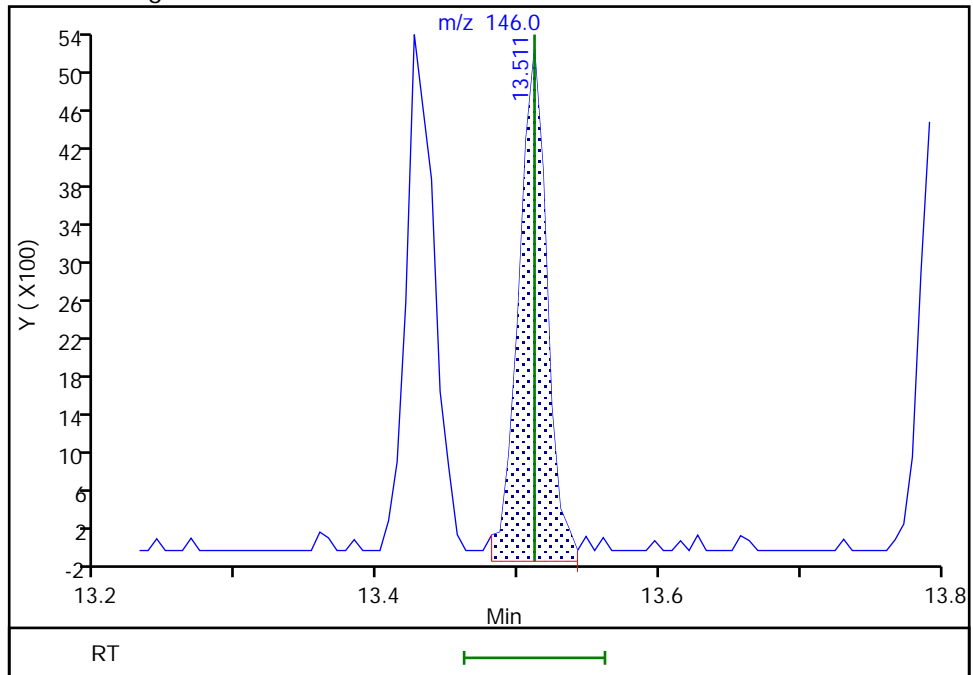
Not Detected  
Expected RT: 13.51

Processing Integration Results



Manual Integration Results

RT: 13.51  
Area: 7474  
Amount: 2.168443  
Amount Units: ug/L



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 01-Oct-2020 18:13:30 ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 0.5  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 02-Oct-2020 11:32:49 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1029

First Level Reviewer: jantanuc Date: 02-Oct-2020 14:06:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.703	1.703	0.000	90	3831	5.00	5.46	
4 Chloromethane	50	1.922	1.922	0.000	97	15299	5.00	5.54	
5 Vinyl chloride	62	2.056	2.056	0.000	98	8901	5.00	5.18	M
6 Butadiene	54	2.105	2.105	0.000	94	8757	5.00	5.08	
7 Bromomethane	94	2.453	2.453	0.000	32	4249	5.00	5.74	M
8 Chloroethane	66	2.581	2.581	0.000	63	1337	5.00	6.00	M
10 Dichlorofluoromethane	67	2.922	2.922	0.000	75	8853	5.00	4.28	M
14 Trichlorofluoromethane	101	2.940	2.940	0.000	67	10947	5.00	5.18	M
11 3-Chloro-1-propene	76	2.971	2.971	0.000	18	260	5.00	4.88	M
17 Ethyl ether	59	3.330	3.330	0.000	84	9687	5.00	5.25	
12 Acrolein	56	3.513	3.513	0.000	90	12575	30.0	29.8	M
19 1,1-Dichloroethene	96	3.690	3.690	0.000	79	5843	5.00	5.68	M
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.751	3.751	0.000	21	5429	5.00	5.49	M
16 Acetone	43	3.751	3.751	0.000	93	22009	25.0	23.6	
22 Iodomethane	142	3.897	3.897	0.000	90	9332	5.00	4.99	M
26 Carbon disulfide	76	4.007	4.007	0.000	94	19993	5.00	5.14	M
S 2 Xylenes, Total	100				0			10.3	
15 Isopropyl alcohol	45	4.056	4.056	0.000	50	9341	50.0	52.1	M
13 Acetonitrile	40	4.239	4.239	0.000	94	7748	62.5	65.9	M
24 Methyl acetate	43	4.312	4.312	0.000	94	17843	10.0	8.70	
23 Methylene Chloride	84	4.525	4.525	0.000	78	10431	5.00	5.02	M
* 18 TBA-d9 (IS)	65	4.659	4.659	0.000	0	35029	200.0	200.0	
20 2-Methyl-2-propanol	59	4.824	4.824	0.000	80	13292	50.0	48.7	M
21 Acrylonitrile	53	4.983	4.983	0.000	93	37652	50.0	48.5	
27 trans-1,2-Dichloroethene	96	5.068	5.068	0.000	66	8470	5.00	5.33	M
28 Methyl tert-butyl ether	73	5.068	5.068	0.000	79	24642	5.00	5.34	
34 Hexane	57	5.641	5.641	0.000	84	26132	5.00	5.22	
30 1,1-Dichloroethane	63	5.897	5.897	0.000	92	19223	5.00	5.16	M
31 Vinyl acetate	86	5.982	5.982	0.000	91	4519	12.5	12.7	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	68	24087	5.00	5.19	
35 Isopropyl ether	45	6.049	6.049	0.000	90	58878	6.25	6.44	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	95	13517	6.25	6.42	
43 2,2-Dichloropropane	77	6.915	6.915	0.000	61	13926	5.00	5.60	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	55	10386	5.00	5.82	
33 2-Butanone (MEK)	72	6.939	6.946	-0.007	1	5380	25.0	27.8	
29 Propionitrile	54	7.019	7.019	0.000	86	17608	62.5	56.7	
38 Ethyl acetate	43	7.055	7.055	0.000	96	25581	10.0	9.84	
36 Methacrylonitrile	67	7.256	7.256	0.000	96	32341	50.0	48.2	
39 Chlorobromomethane	130	7.305	7.305	0.000	55	5744	5.00	5.43	
40 Chloroform	83	7.500	7.500	0.000	79	15926	5.00	5.00	M
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	82	14629	5.00	5.46	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	72	16618	10.0	9.87	
51 Cyclohexane	84	7.793	7.793	0.000	91	12142	5.00	5.31	
52 Carbon tetrachloride	117	7.933	7.933	0.000	67	12344	5.00	4.98	
50 1,1-Dichloropropene	75	7.945	7.945	0.000	75	12464	5.00	5.10	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	23411	10.0	10.2	
53 Benzene	78	8.195	8.195	0.000	90	35669	5.00	5.33	
42 Isobutyl alcohol	43	8.201	8.201	0.000	60	20080	125.0	150.8	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	83	16098	5.00	5.13	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	85	30733	6.25	6.27	
* 55 Fluorobenzene (IS)	96	8.598	8.598	0.000	96	63308	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.634	0.000	38	5839	10.0	8.45	Ma
56 n-Heptane	43	8.634	8.634	0.000	80	24588	5.00	5.09	
61 Trichloroethene	132	9.024	9.024	0.000	84	9315	5.00	5.09	a
57 Ethyl acrylate	55	9.159	9.159	0.000	91	17790	5.00	5.09	
49 n-Butanol	56	9.268	9.268	0.000	42	6210	125.0	127.3	
66 Methylcyclohexane	83	9.262	9.262	0.000	92	16266	5.00	5.44	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	72	10615	5.00	4.94	M
59 Dibromomethane	174	9.390	9.390	0.000	34	5164	5.00	5.46	
63 Methyl methacrylate	69	9.402	9.402	0.000	83	10635	10.0	9.47	
62 Dichlorobromomethane	83	9.591	9.591	0.000	88	12190	5.00	4.89	
58 2-Nitropropane	43	9.805	9.805	0.000	99	12511	10.0	10.7	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	75	4566	5.00	4.76	
67 cis-1,3-Dichloropropene	75	10.030	10.030	0.000	72	14820	5.00	5.23	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	97	20578	25.0	25.5	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	61886	10.0	10.2	
74 Toluene	91	10.341	10.341	0.000	90	40634	5.00	5.44	
70 n-Butyl acetate	43	10.469	10.469	0.000	75	2443	5.00	3.98	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	86	13134	5.00	5.08	
73 Ethyl methacrylate	69	10.622	10.622	0.000	82	10061	5.00	5.16	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	90	7642	5.00	5.45	
79 Tetrachloroethene	164	10.817	10.817	0.000	87	7606	5.00	5.21	
75 1,3-Dichloropropane	76	10.878	10.878	0.000	86	12616	5.00	5.27	
76 2-Hexanone	58	10.933	10.933	0.000	81	20693	25.0	26.2	
77 Chlorodibromomethane	129	11.079	11.079	0.000	77	9699	5.00	5.56	
78 Ethylene Dibromide	107	11.170	11.170	0.000	90	6955	5.00	5.14	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	90	48189	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	85	25105	5.00	5.38	
80 1,1,1,2-Tetrachloroethane	131	11.682	11.682	0.000	41	9612	5.00	5.38	
83 Ethylbenzene	91	11.689	11.689	0.000	98	41554	5.00	5.21	
84 m-Xylene & p-Xylene	91	11.798	11.798	0.000	0	33946	5.00	5.00	
88 o-Xylene	91	12.115	12.115	0.000	93	34762	5.00	5.33	
86 Styrene	104	12.127	12.127	0.000	83	23683	5.00	5.24	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	87	5625	5.00	5.40	
91 Isopropylbenzene	105	12.414	12.414	0.000	95	41103	5.00	5.36	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	84	17337	10.0	9.96	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	92	8162	5.00	4.86	
93 Bromobenzene	156	12.682	12.682	0.000	89	8665	5.00	4.78	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	54	4706	5.00	5.24	
90 1,2,3-Trichloropropane	110	12.713	12.713	0.000	29	2498	5.00	4.86	
94 N-Propylbenzene	91	12.749	12.749	0.000	87	45666	5.00	5.10	
95 2-Chlorotoluene	126	12.835	12.835	0.000	92	9416	5.00	5.22	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	85	32898	5.00	5.08	
96 4-Chlorotoluene	126	12.926	12.926	0.000	79	9273	5.00	4.94	
98 tert-Butylbenzene	119	13.152	13.152	0.000	93	30518	5.00	5.13	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	74	32113	5.00	4.97	
100 sec-Butylbenzene	105	13.328	13.328	0.000	93	43485	5.00	5.20	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	90	15880	5.00	4.84	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	95	34722	5.00	5.00	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	84	21190	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	84	16617	5.00	5.06	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	76	34244	5.00	4.99	
101 Benzyl chloride	126	13.597	13.597	0.000	95	3660	5.00	5.20	
108 n-Butylbenzene	134	13.761	13.761	0.000	94	8964	5.00	5.22	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	89	15641	5.00	4.98	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.401	0.000	47	1706	5.00	5.05	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	92	13038	5.00	5.40	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	89	11080	5.00	5.42	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	90	6996	5.00	5.58	
112 Naphthalene	128	15.249	15.249	0.000	95	28583	5.00	5.13	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	87	10441	5.00	4.96	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 0.50

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D

Injection Date: 01-Oct-2020 18:13:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 5

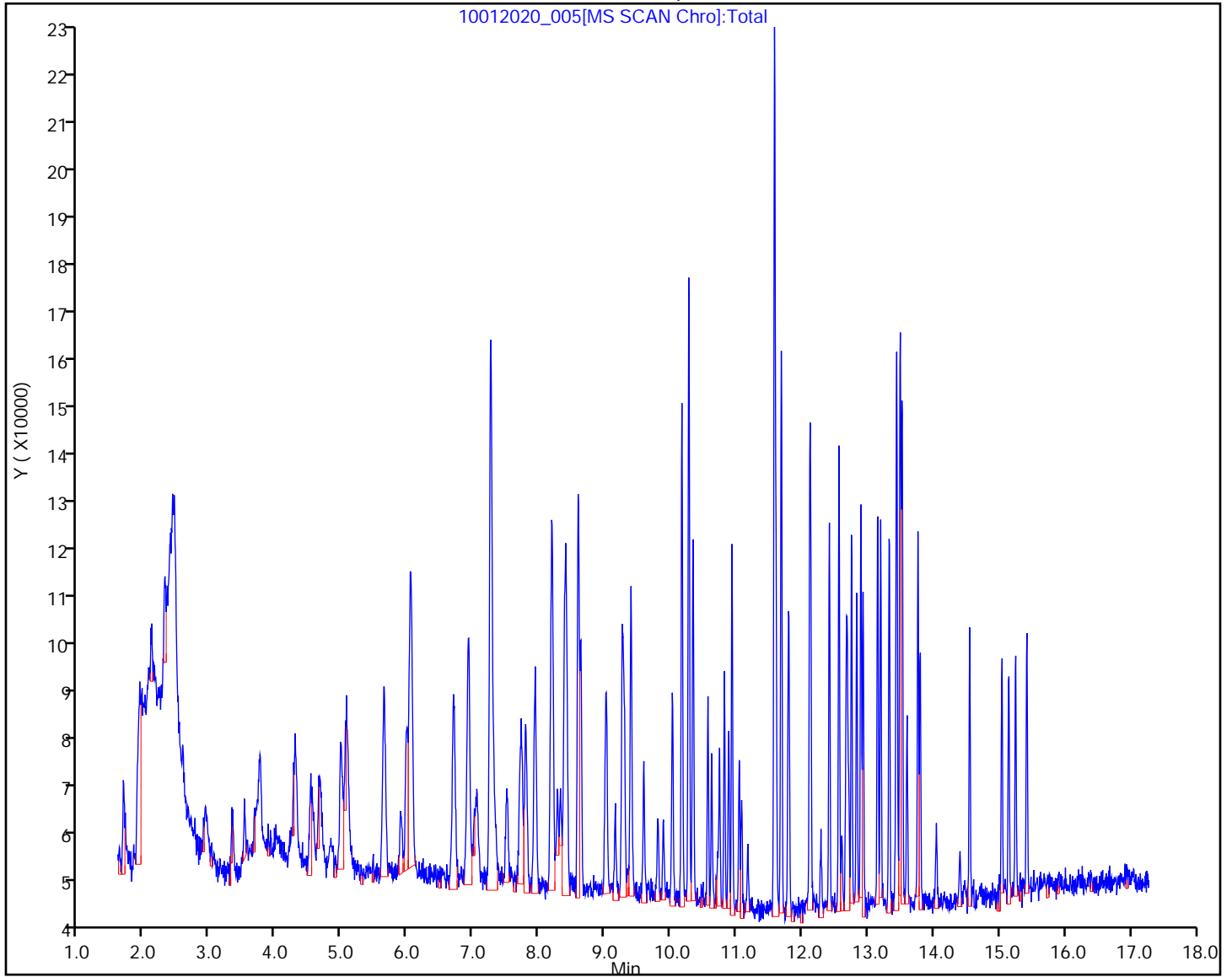
Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

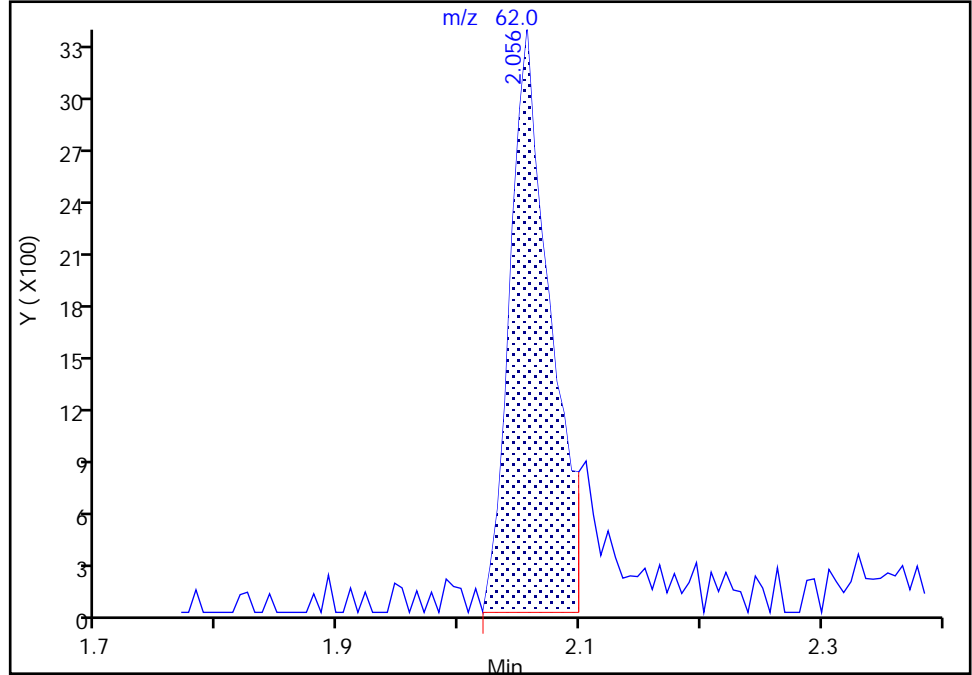
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

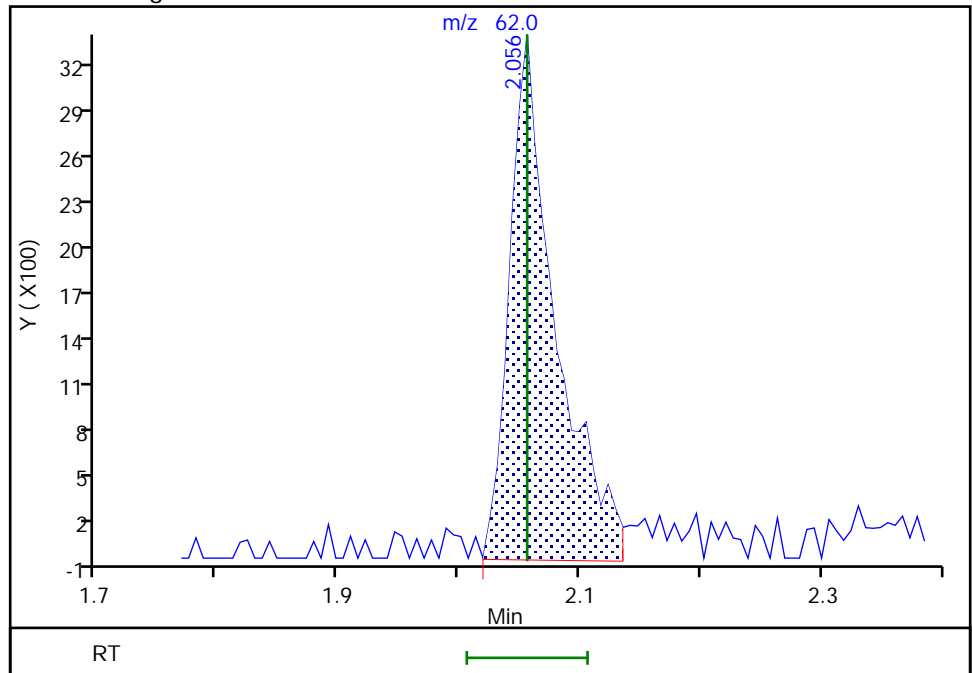
RT: 2.06  
Area: 7797  
Amount: 5.184578  
Amount Units: ug/L

Processing Integration Results



RT: 2.06  
Area: 8901  
Amount: 5.179450  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:57:53  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

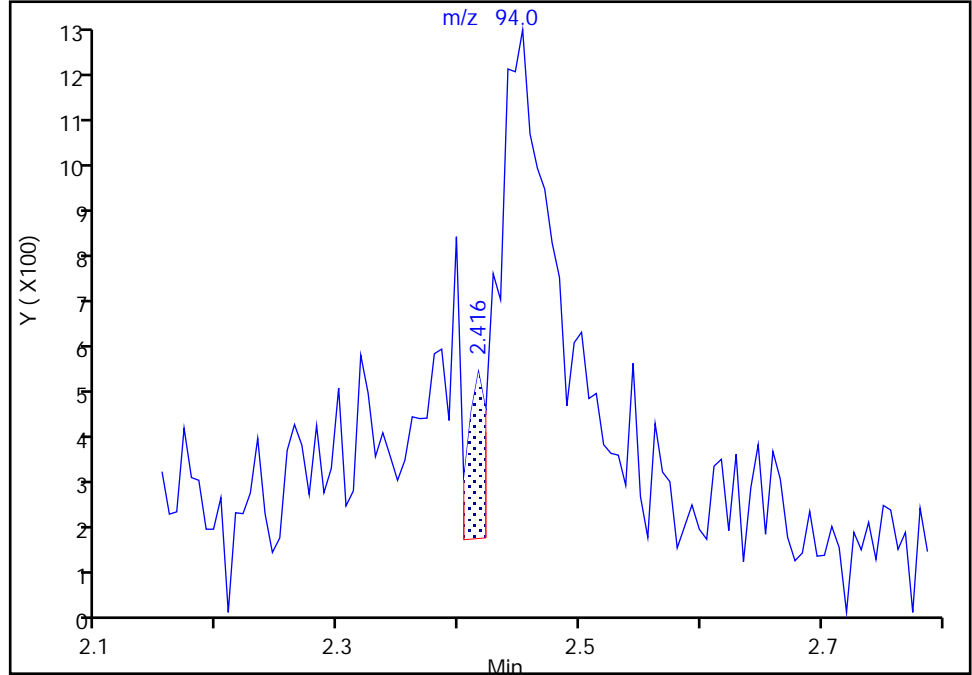
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Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

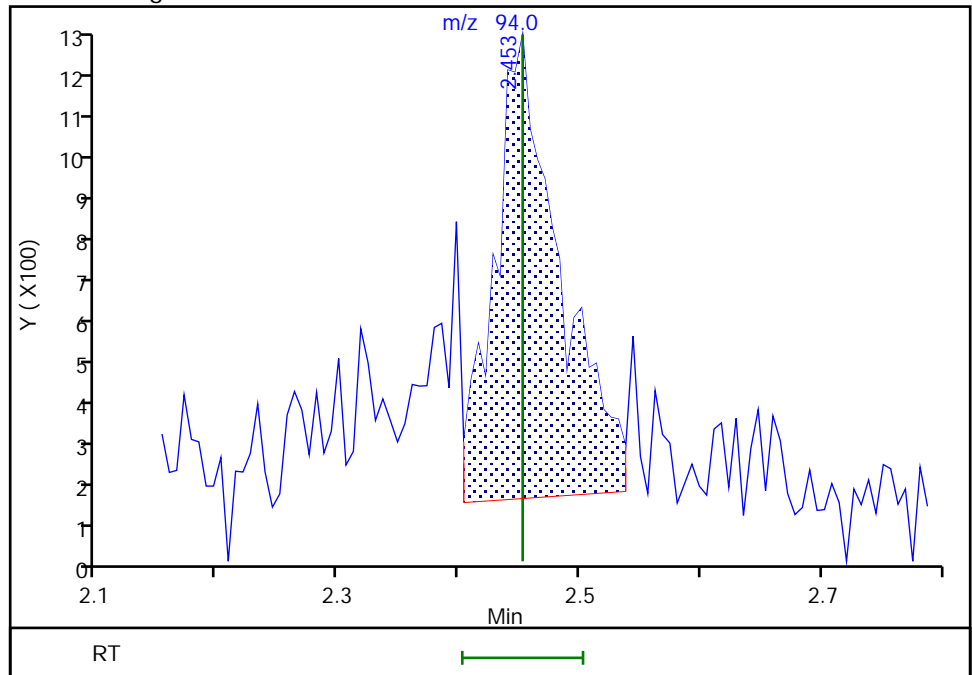
RT: 2.42  
Area: 384  
Amount: 0.743116  
Amount Units: ug/L

Processing Integration Results



RT: 2.45  
Area: 4249  
Amount: 5.735494  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:57:59  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

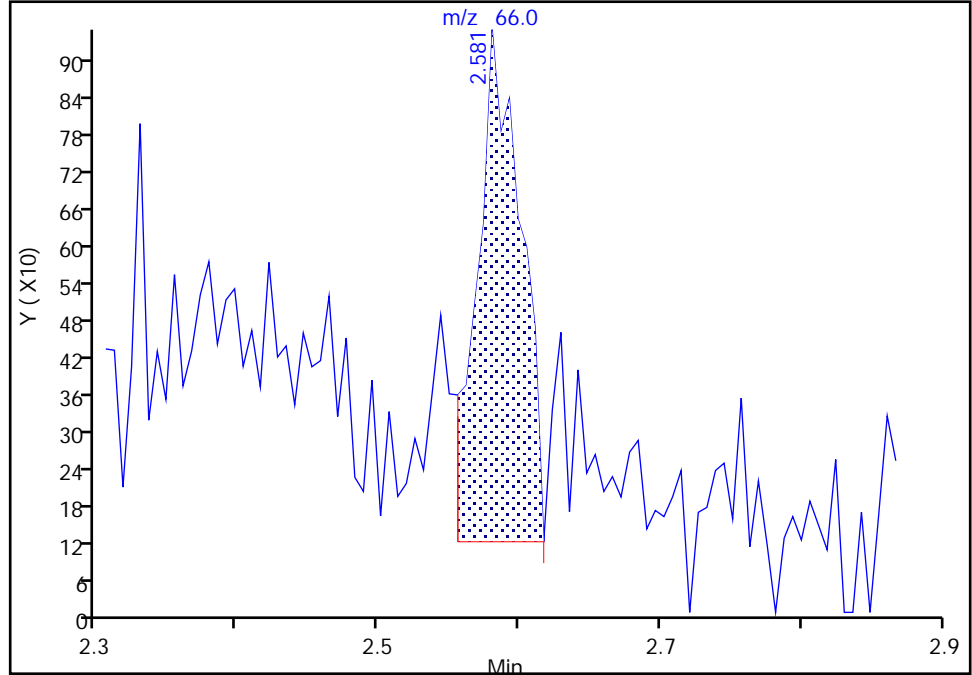
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Signal: 1

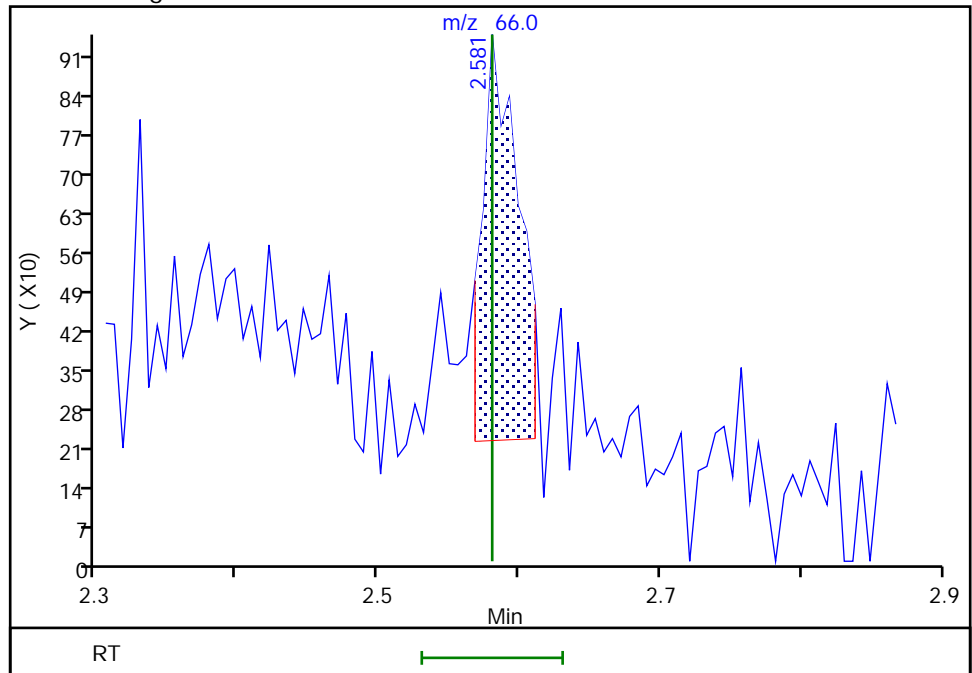
RT: 2.58  
Area: 1821  
Amount: 7.687826  
Amount Units: ug/L

Processing Integration Results



RT: 2.58  
Area: 1337  
Amount: 5.999774  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:24:03  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

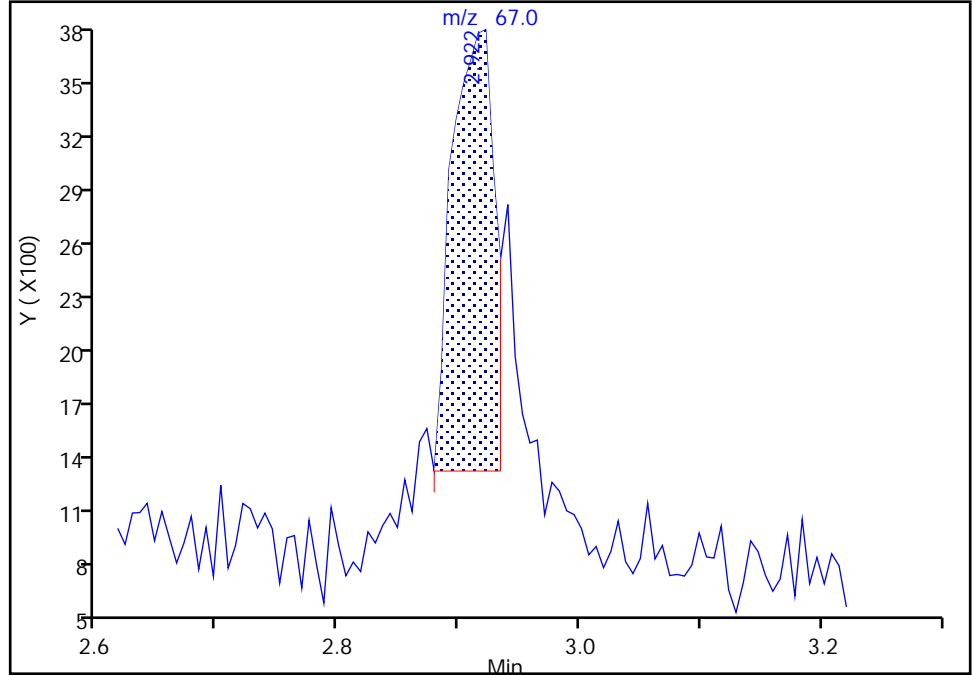
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

10 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

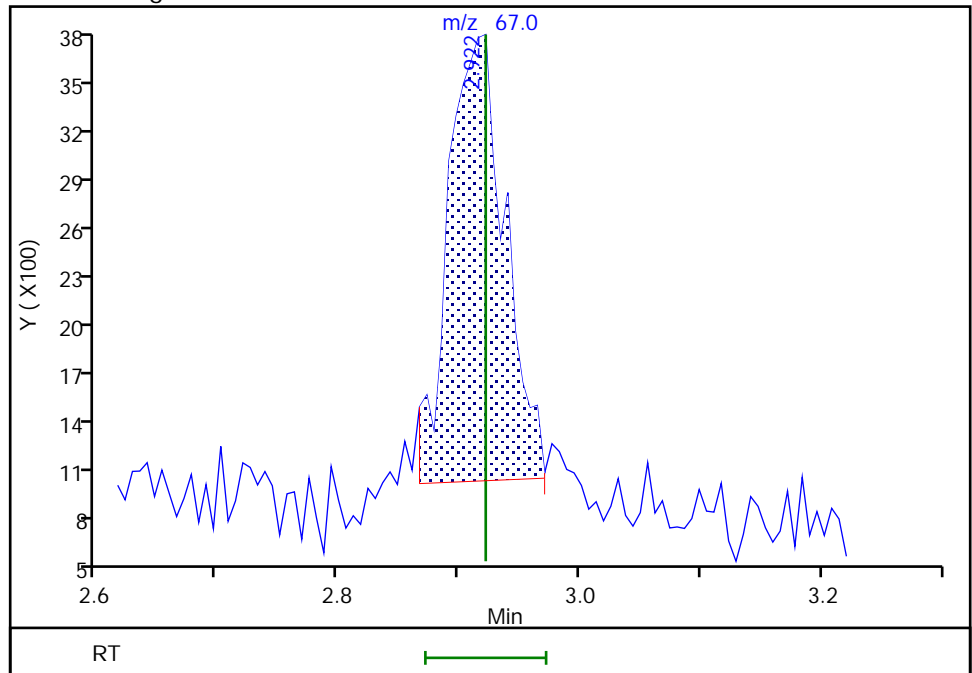
RT: 2.92  
Area: 5908  
Amount: 3.150865  
Amount Units: ug/L

Processing Integration Results



RT: 2.92  
Area: 8853  
Amount: 4.275968  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:58:05  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

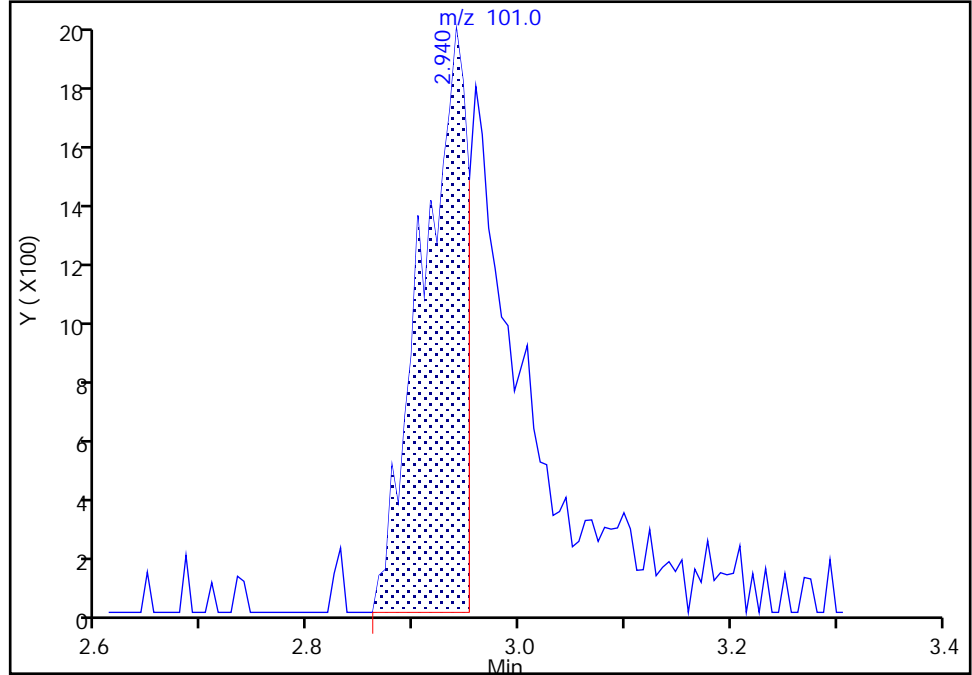
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

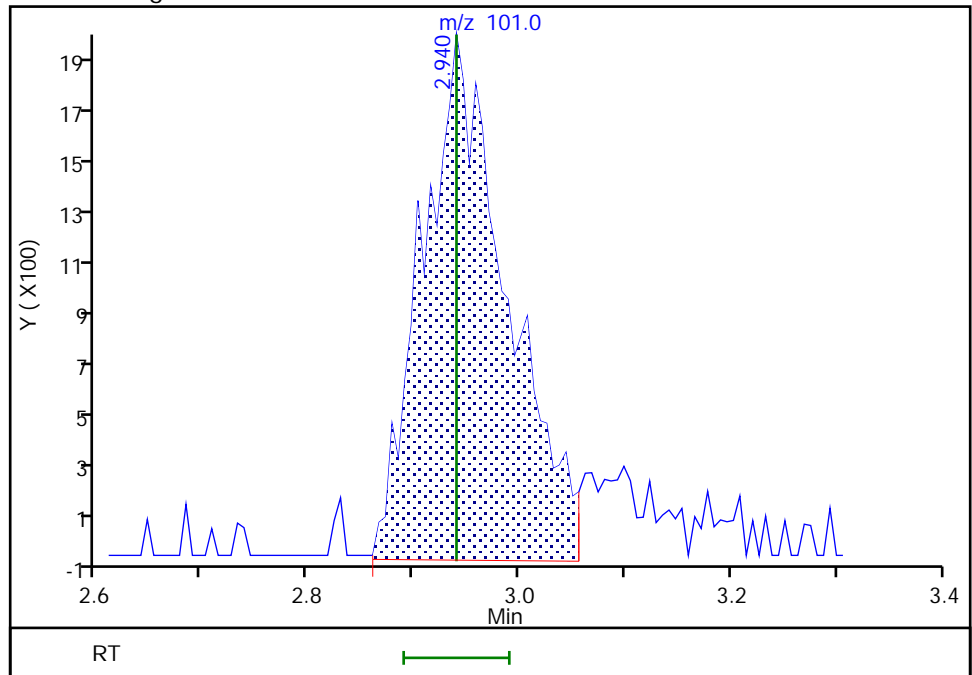
RT: 2.94  
Area: 5847  
Amount: 3.996155  
Amount Units: ug/L

Processing Integration Results



RT: 2.94  
Area: 10947  
Amount: 5.184094  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:58:08  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

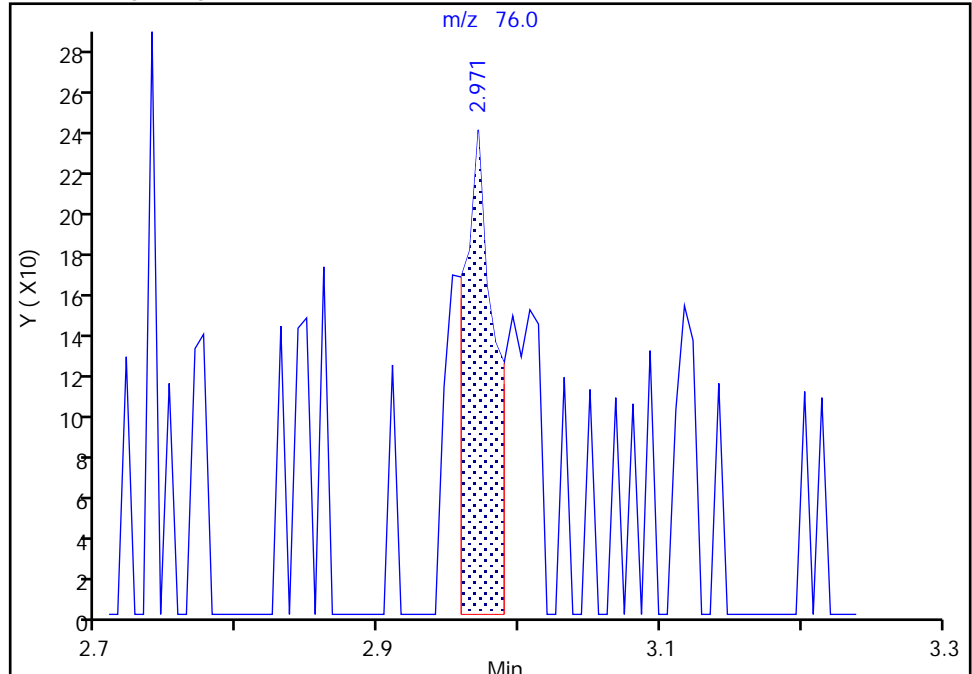
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

11 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

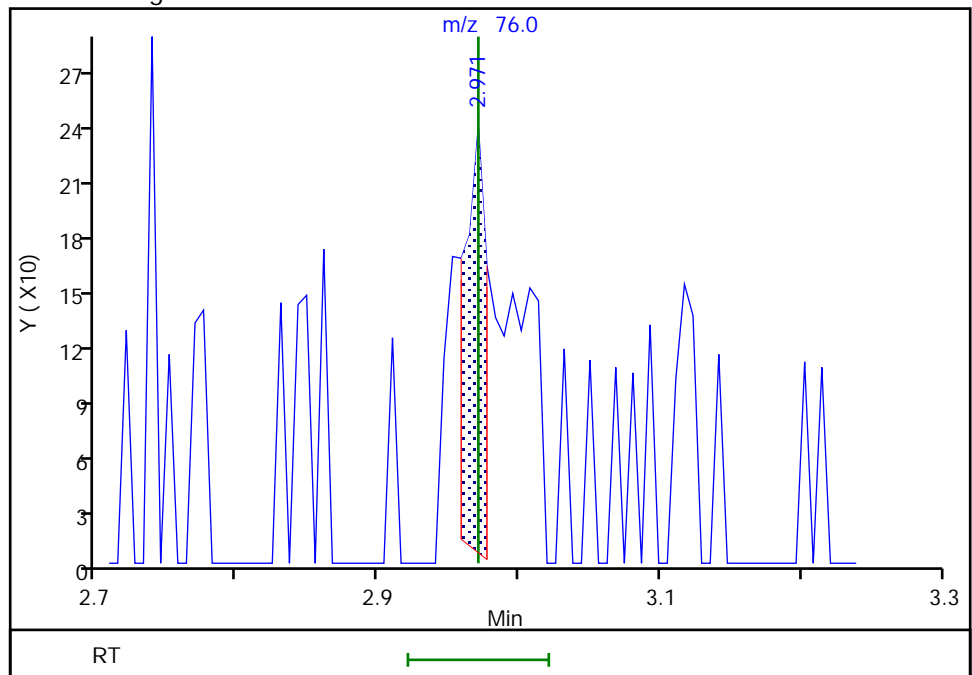
RT: 2.97  
Area: 365  
Amount: 3.924826  
Amount Units: ug/L

Processing Integration Results



RT: 2.97  
Area: 260  
Amount: 4.881108  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:26:16  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Seattle

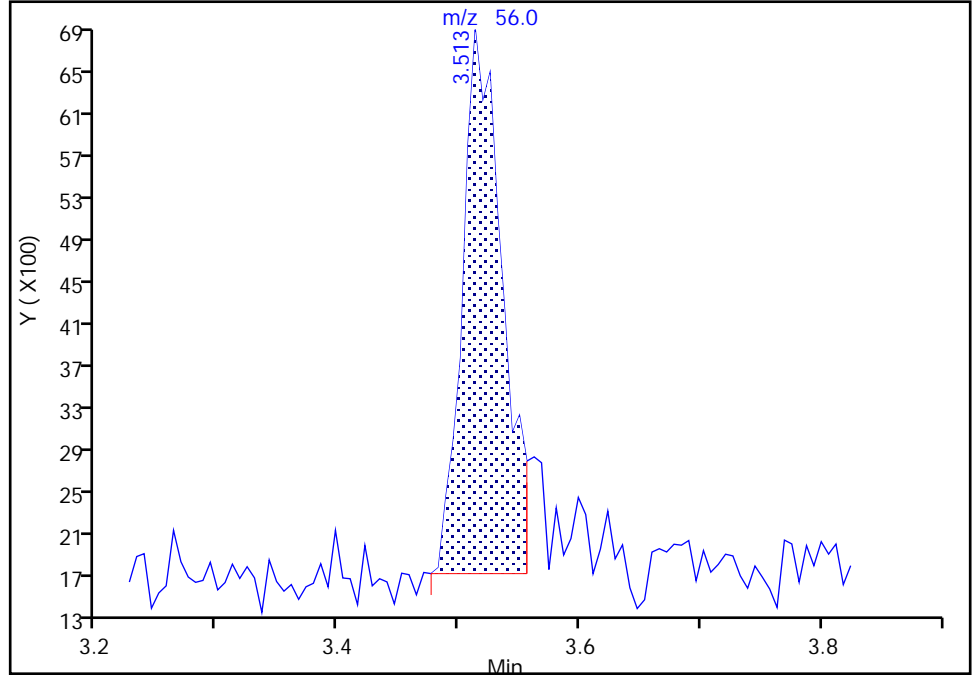
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

12 Acrolein, CAS: 107-02-8

Signal: 1

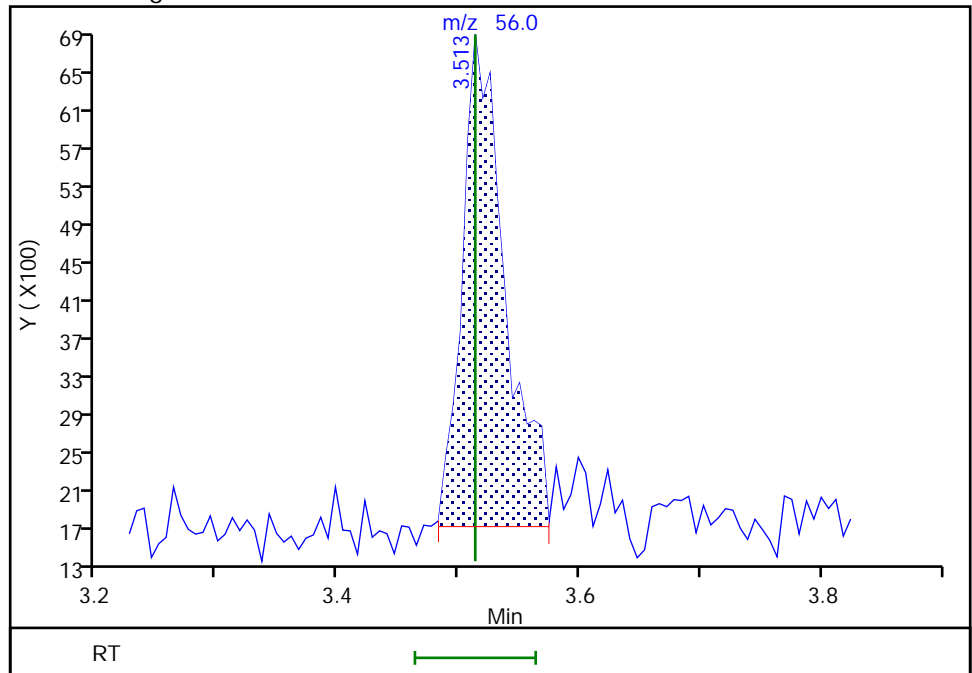
RT: 3.51  
Area: 11754  
Amount: 30.232495  
Amount Units: ug/L

Processing Integration Results



RT: 3.51  
Area: 12575  
Amount: 29.793305  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:58:23  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

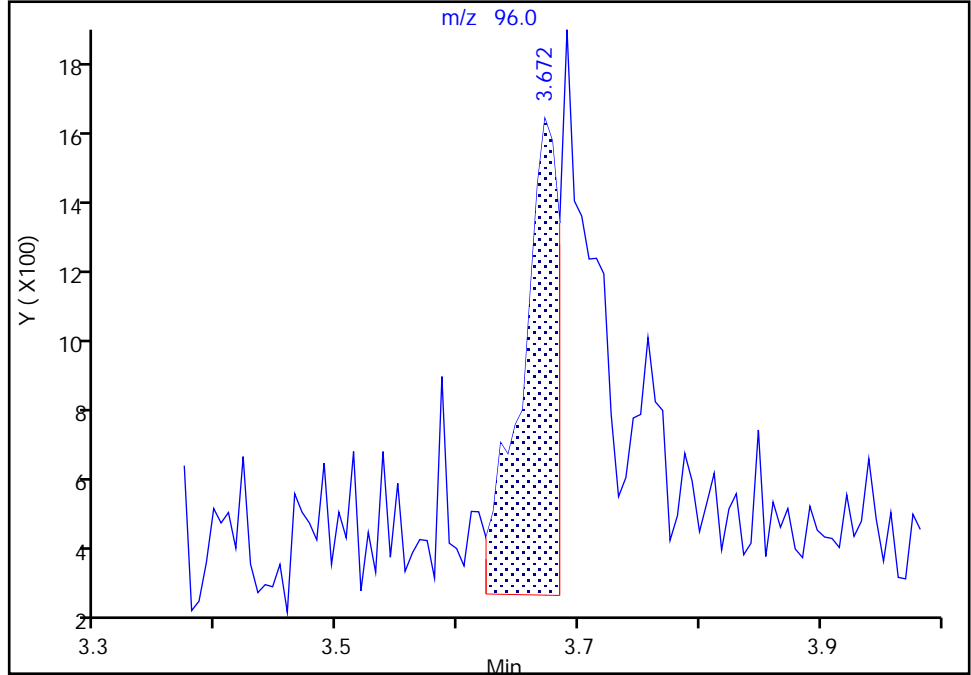
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

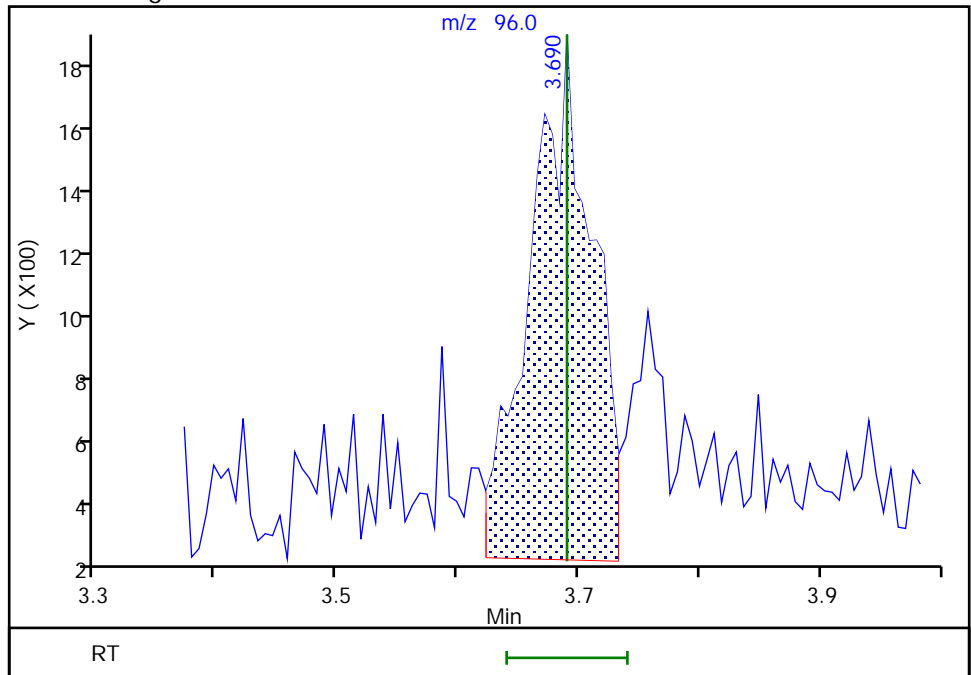
RT: 3.67  
Area: 2839  
Amount: 4.282543  
Amount Units: ug/L

Processing Integration Results



RT: 3.69  
Area: 5843  
Amount: 5.684674  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:58:28  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

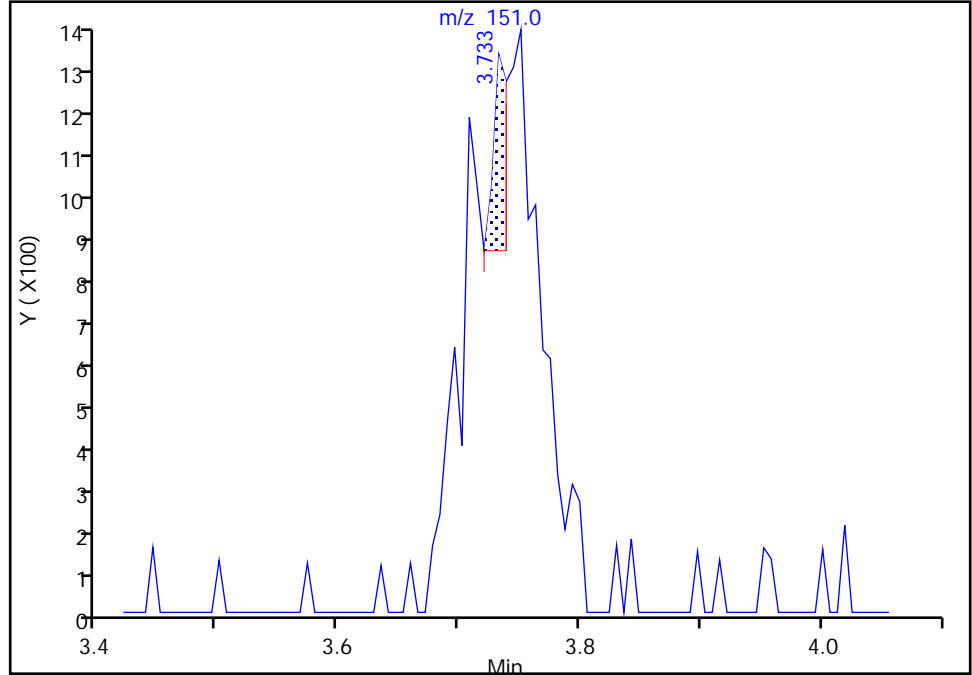
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

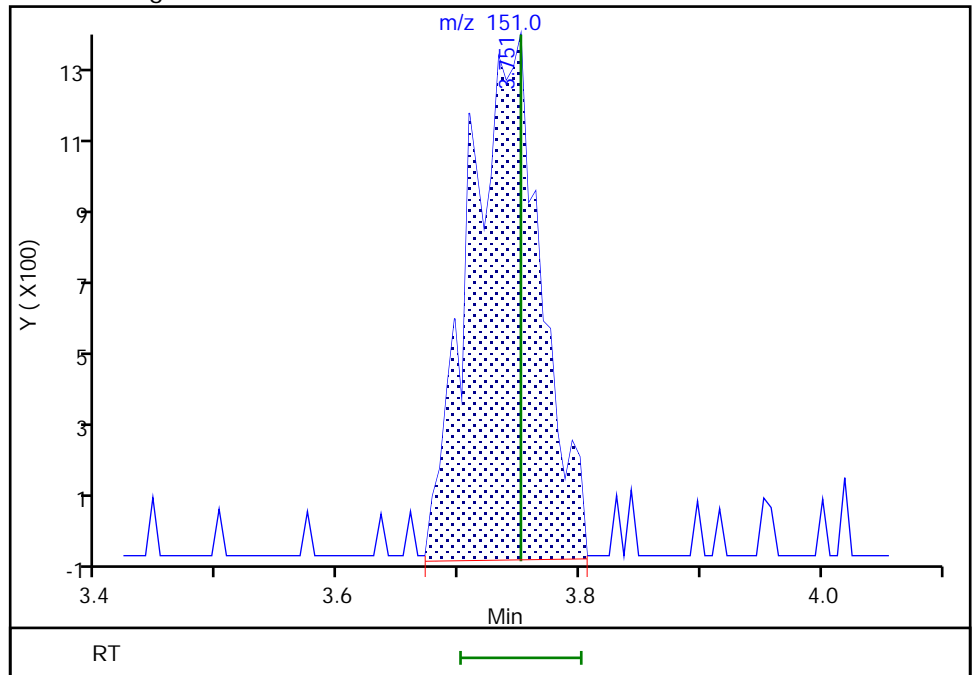
RT: 3.73  
Area: 352  
Amount: 0.556622  
Amount Units: ug/L

Processing Integration Results



RT: 3.75  
Area: 5429  
Amount: 5.491751  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:58:33  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

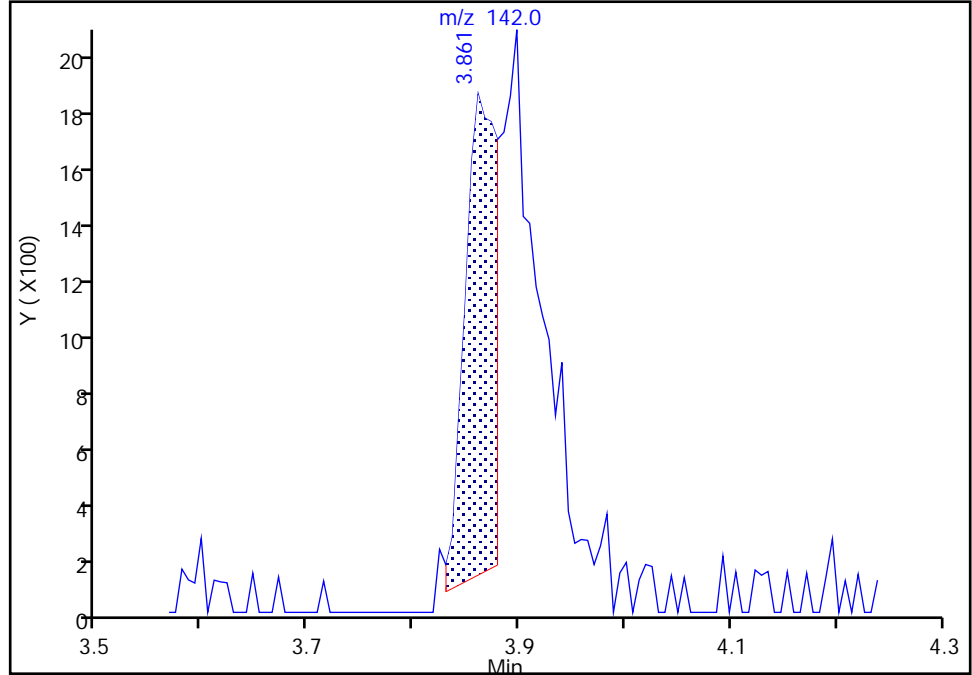
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

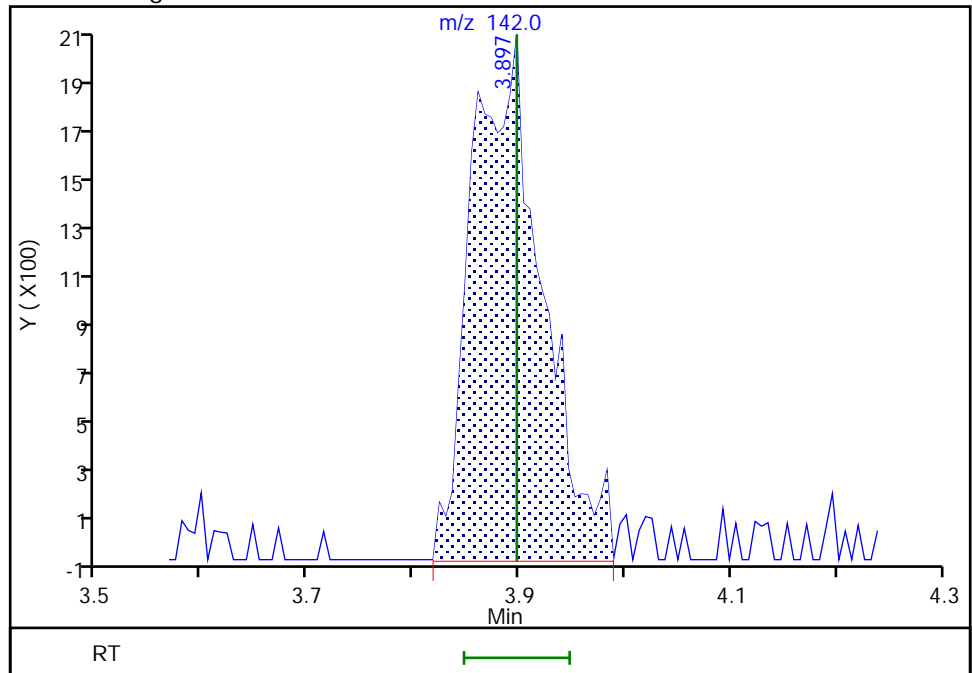
RT: 3.86  
Area: 3468  
Amount: 2.597926  
Amount Units: ug/L

Processing Integration Results



RT: 3.90  
Area: 9332  
Amount: 4.986118  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:58:42  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

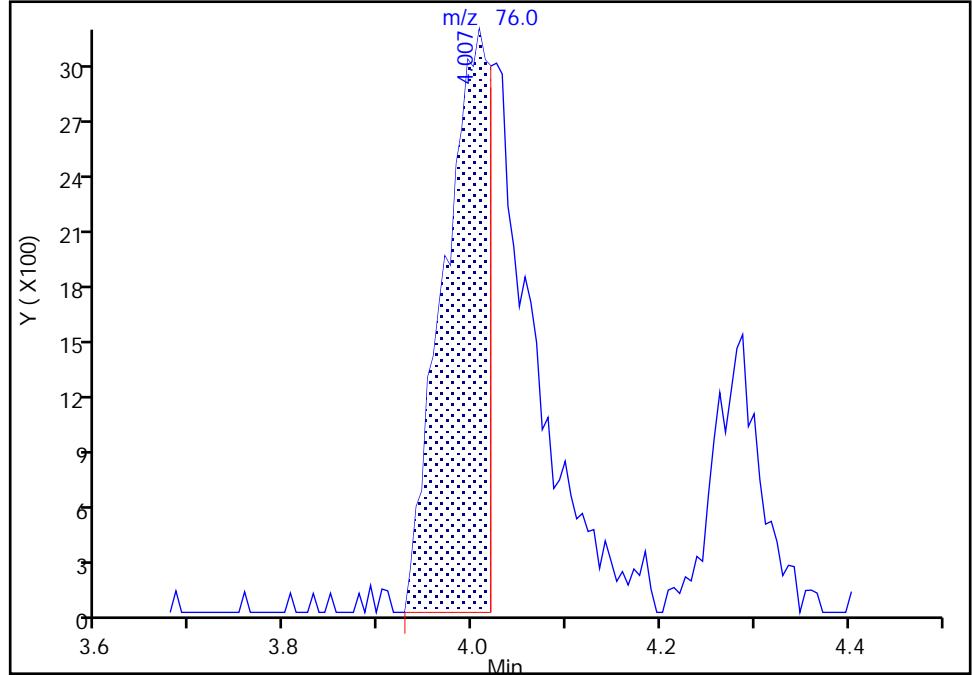
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

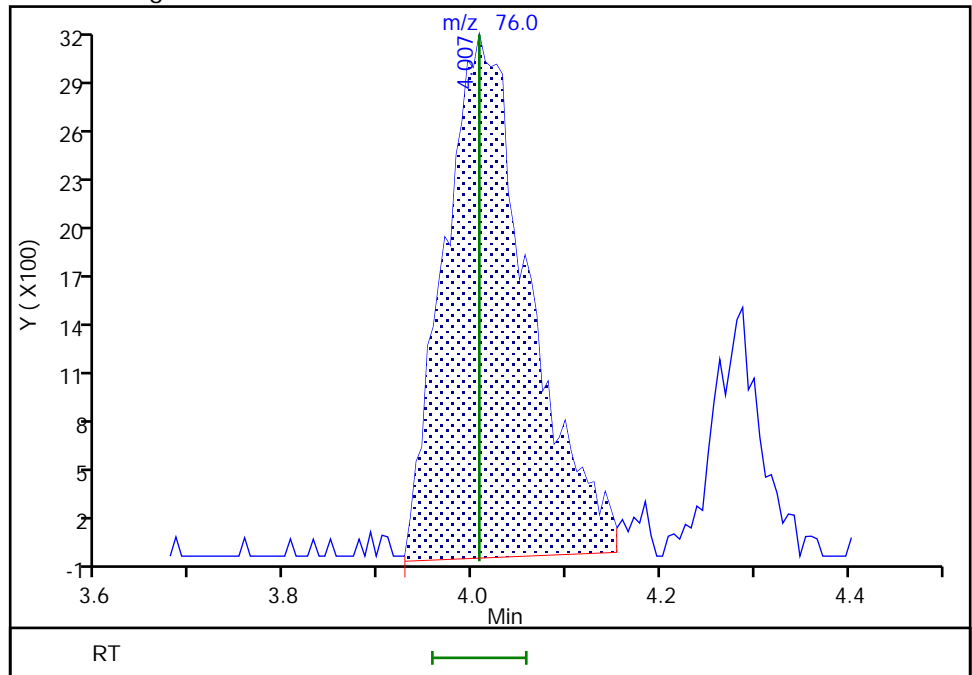
RT: 4.01  
Area: 10910  
Amount: 4.048804  
Amount Units: ug/L

Processing Integration Results



RT: 4.01  
Area: 19993  
Amount: 5.139350  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:58:47  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

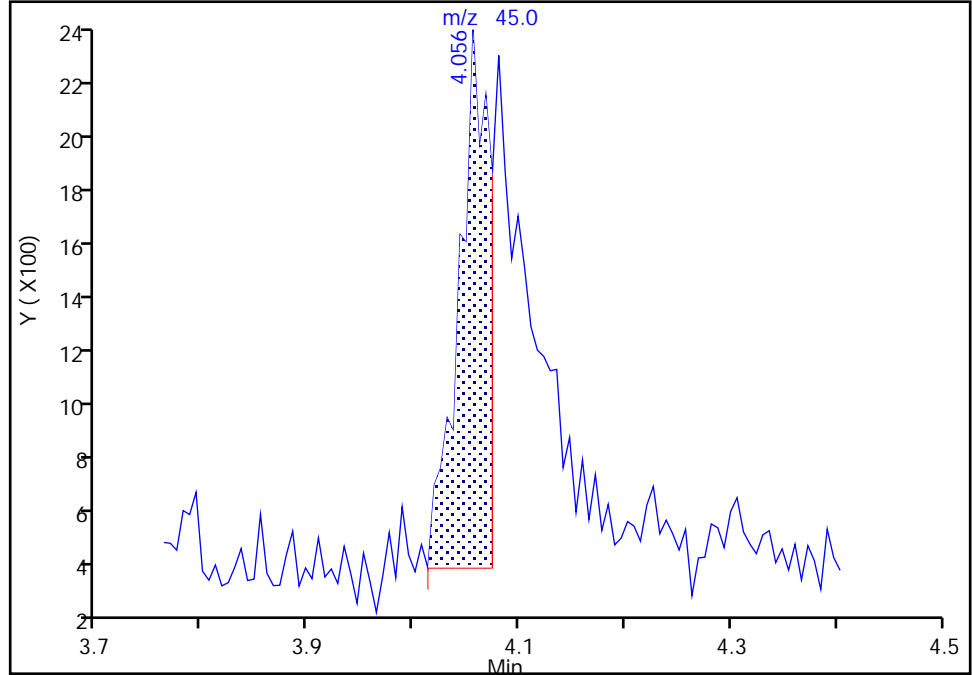
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

15 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

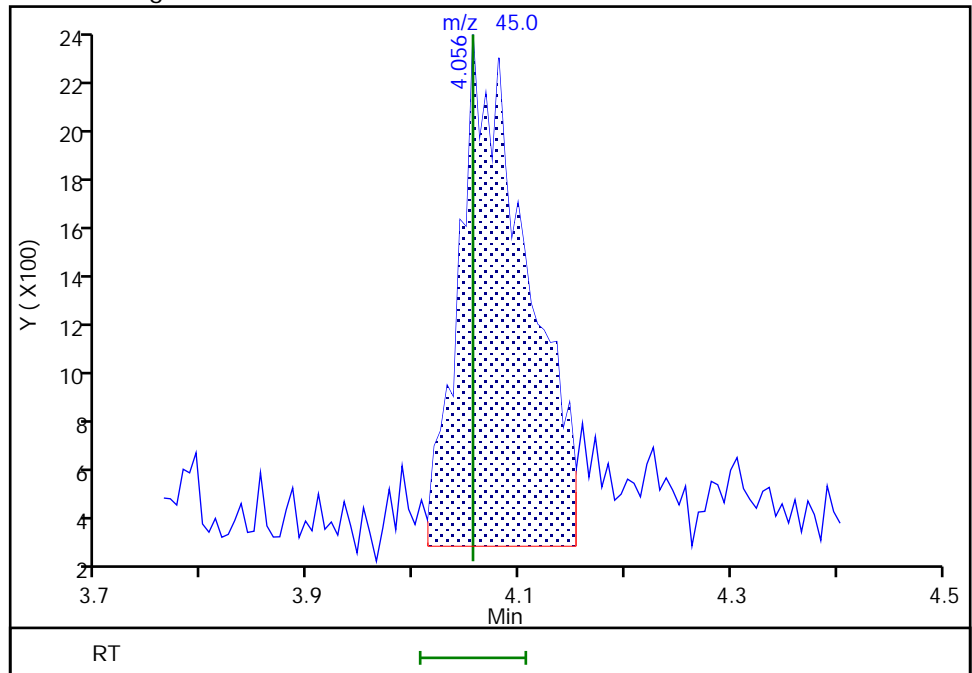
RT: 4.06  
Area: 4033  
Amount: 33.369281  
Amount Units: ug/L

Processing Integration Results



RT: 4.06  
Area: 9341  
Amount: 52.108179  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:58:54  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

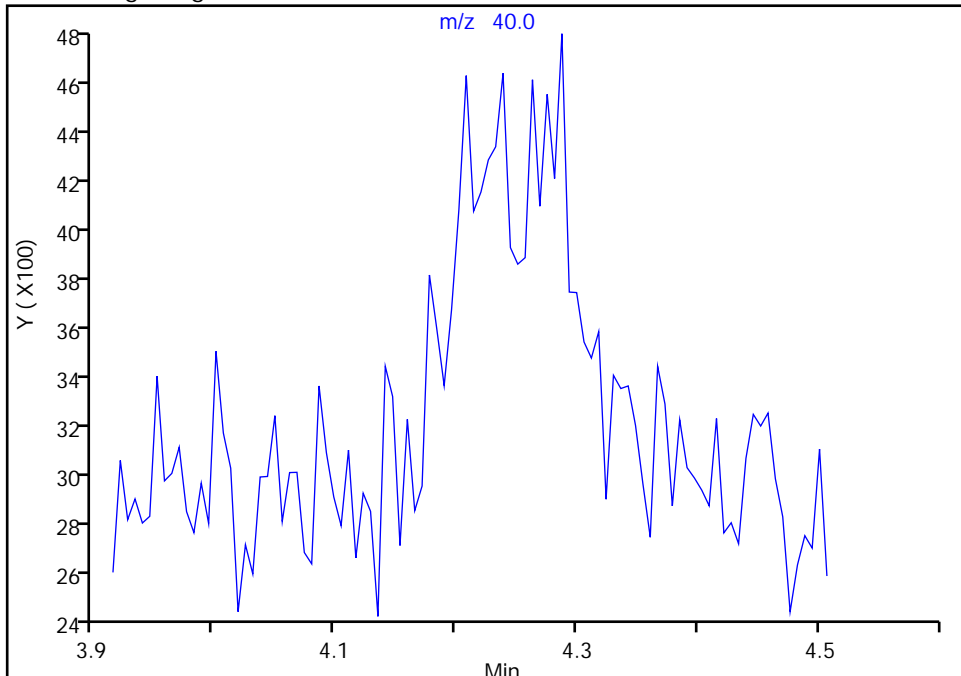
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

13 Acetonitrile, CAS: 75-05-8

Signal: 1

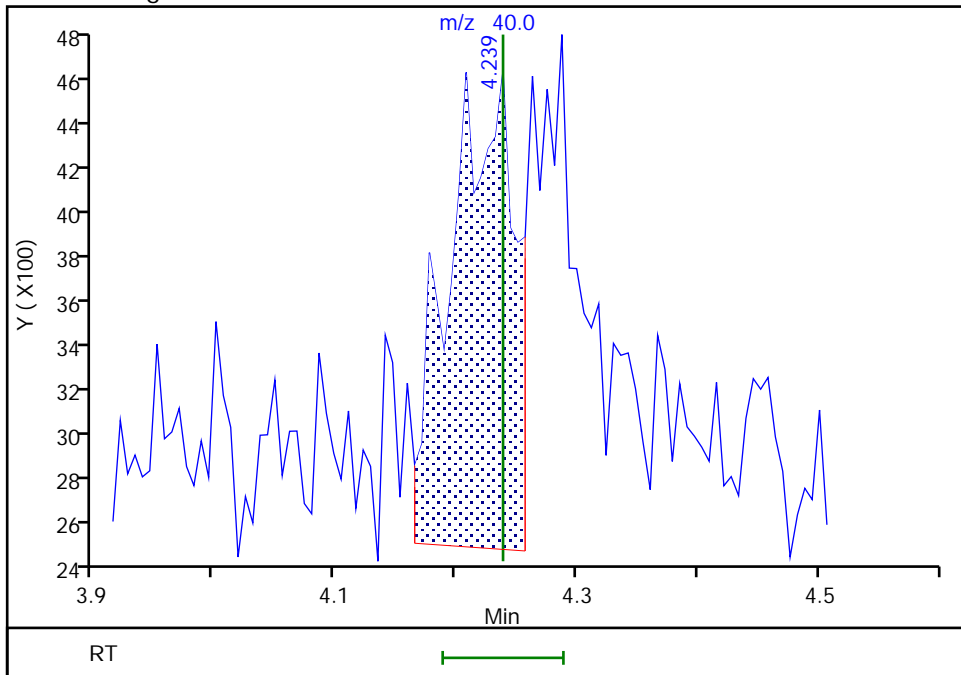
Not Detected  
Expected RT: 4.24

Processing Integration Results



RT: 4.24  
Area: 7748  
Amount: 65.906461  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:32:44  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

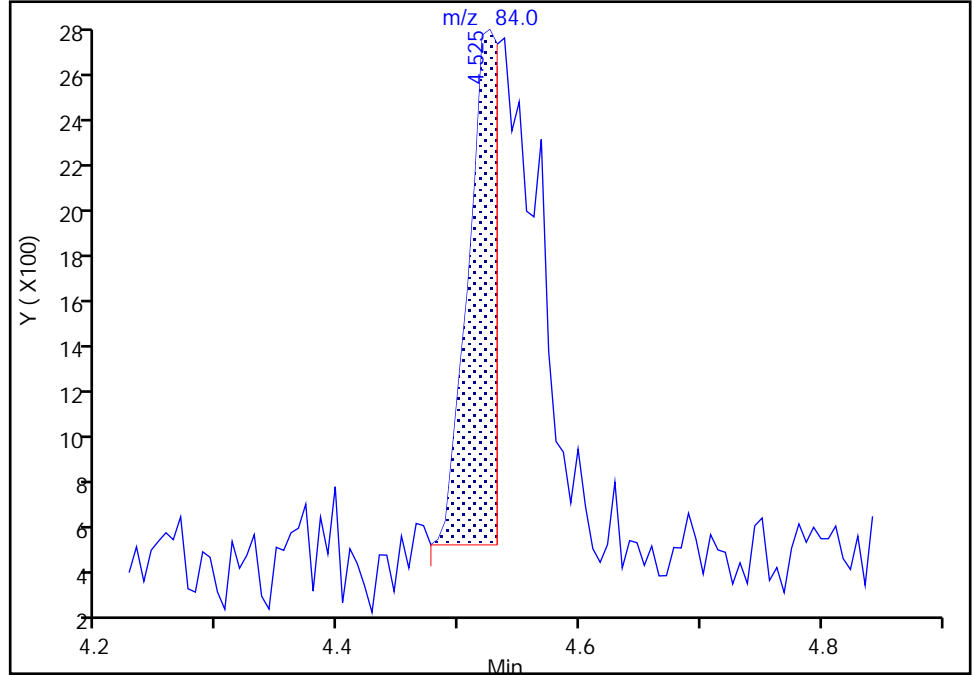
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Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

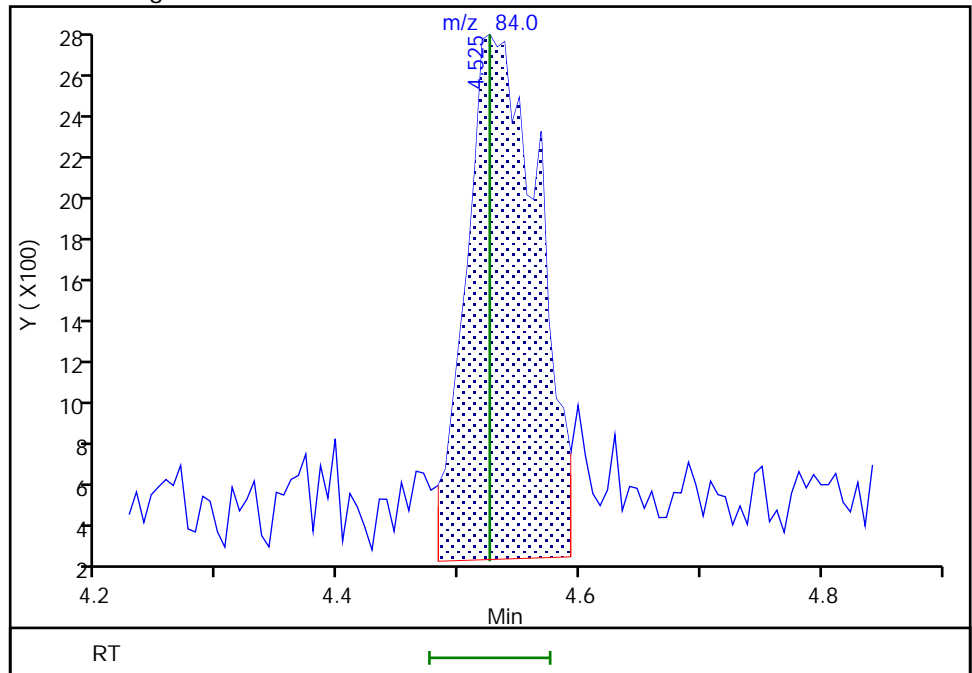
RT: 4.53  
Area: 3769  
Amount: 2.284916  
Amount Units: ug/L

Processing Integration Results



RT: 4.53  
Area: 10431  
Amount: 5.024508  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:59:06  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

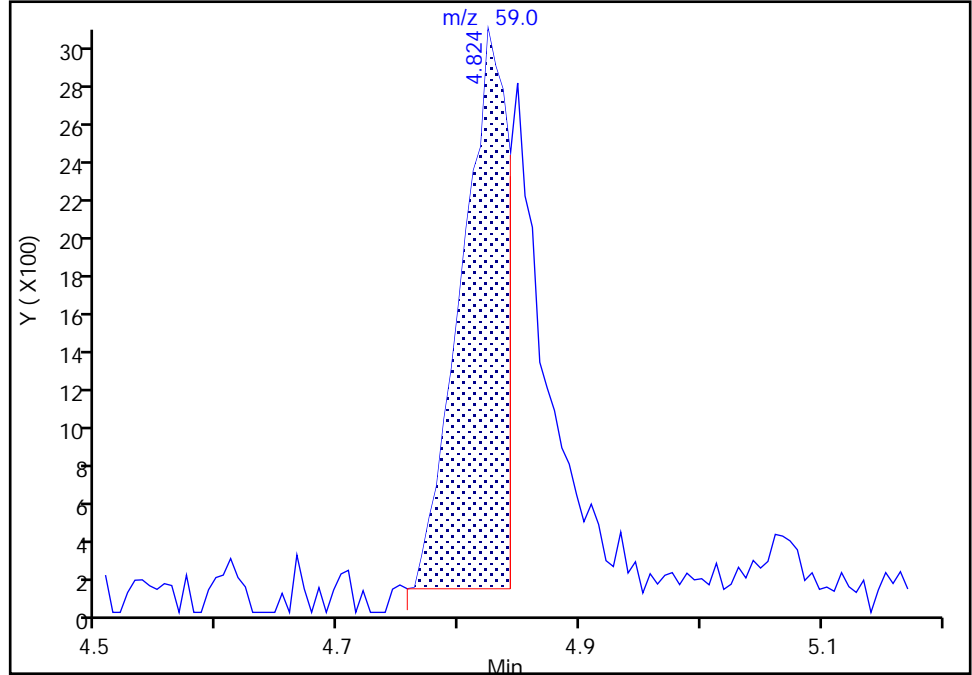
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

20 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

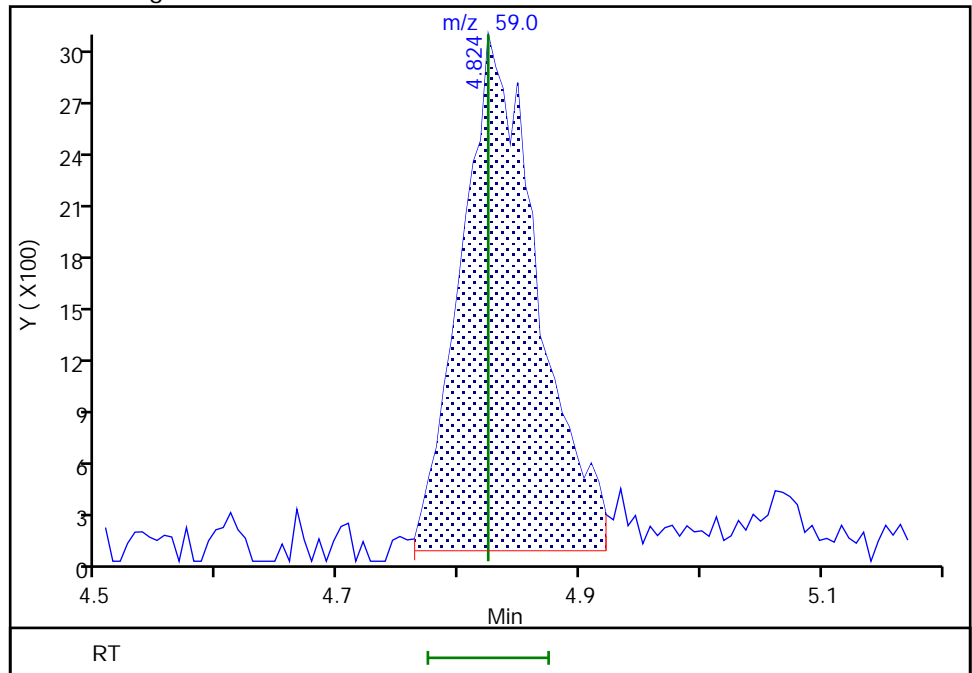
RT: 4.82  
Area: 7921  
Amount: 43.032980  
Amount Units: ug/L

Processing Integration Results



RT: 4.82  
Area: 13292  
Amount: 48.700402  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:59:12  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

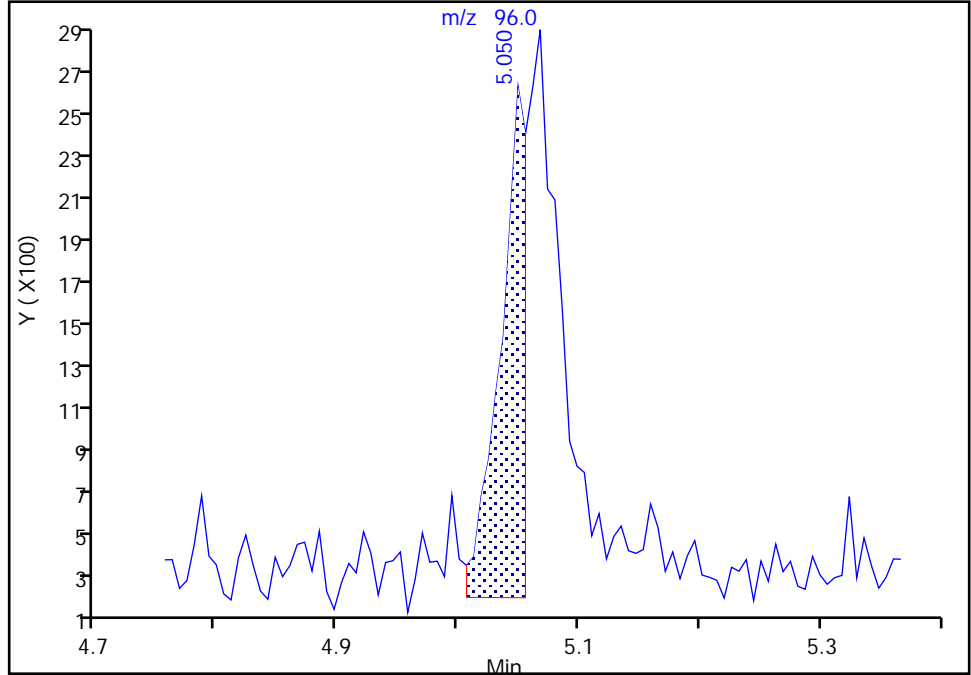
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

27 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

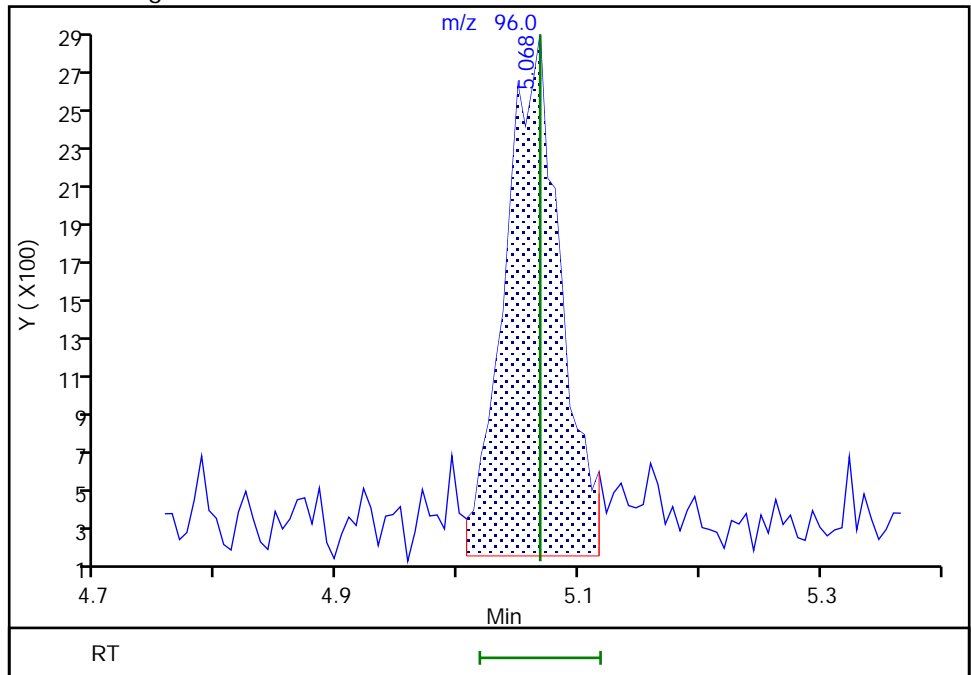
RT: 5.05  
Area: 3599  
Amount: 2.910506  
Amount Units: ug/L

Processing Integration Results



RT: 5.07  
Area: 8470  
Amount: 5.329640  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:59:17  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

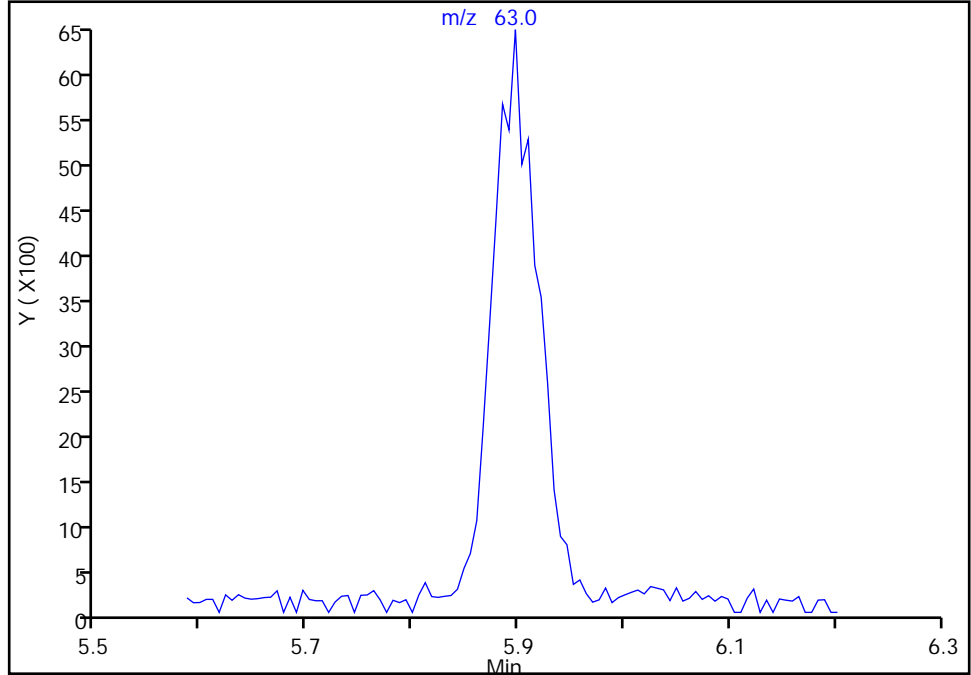
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_005.D  
Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

30 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

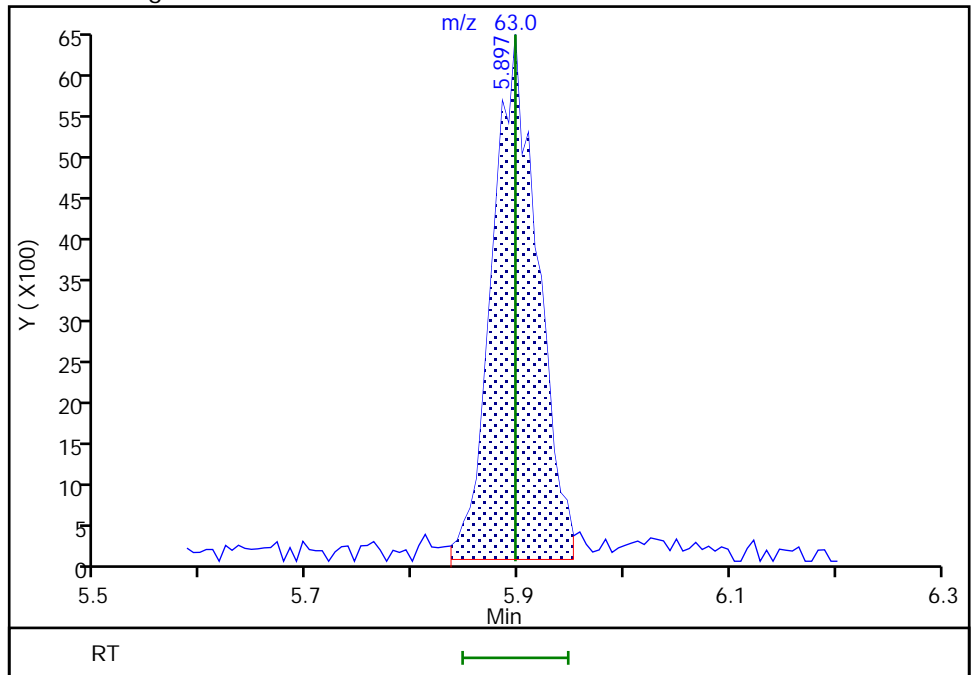
Not Detected  
Expected RT: 5.90

Processing Integration Results



Manual Integration Results

RT: 5.90  
Area: 19223  
Amount: 5.163837  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 13:59:24  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

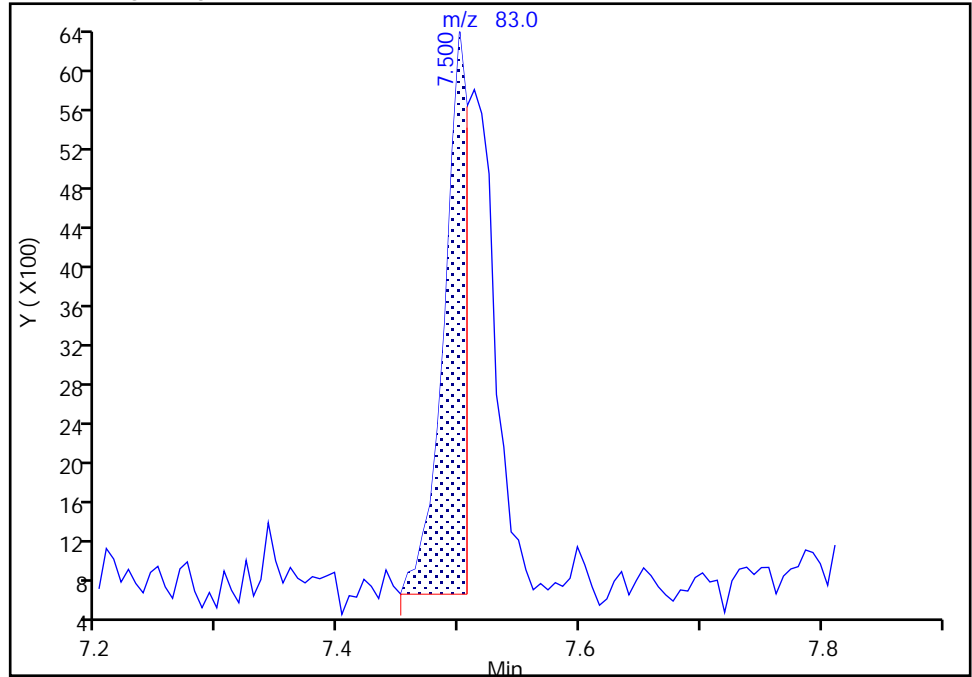
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Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

40 Chloroform, CAS: 67-66-3

Signal: 1

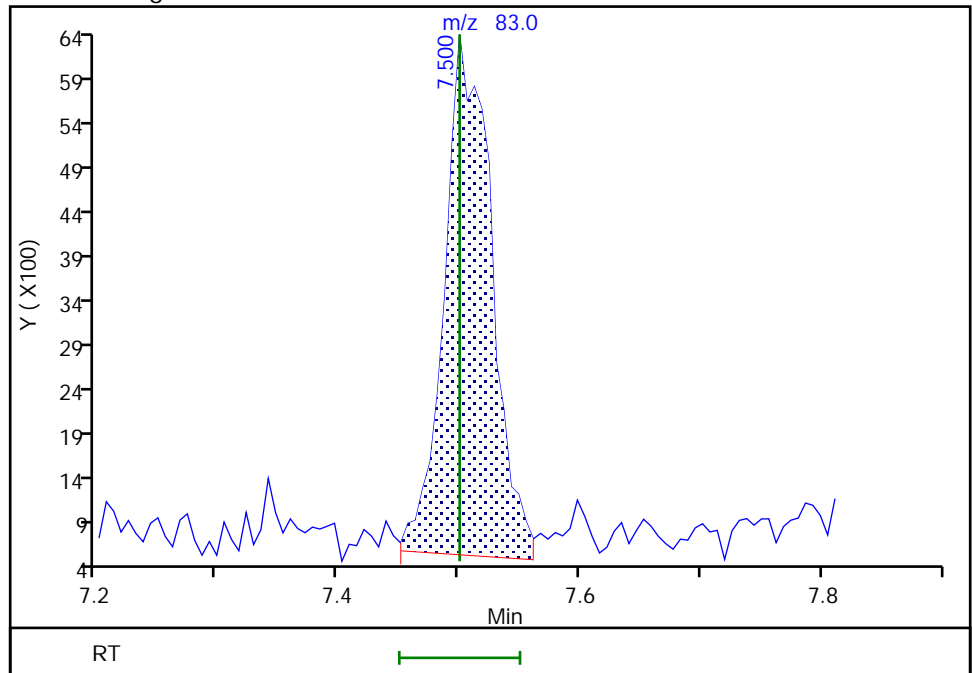
RT: 7.50  
Area: 7917  
Amount: 3.224892  
Amount Units: ug/L

Processing Integration Results



RT: 7.50  
Area: 15926  
Amount: 5.002751  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:59:36  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

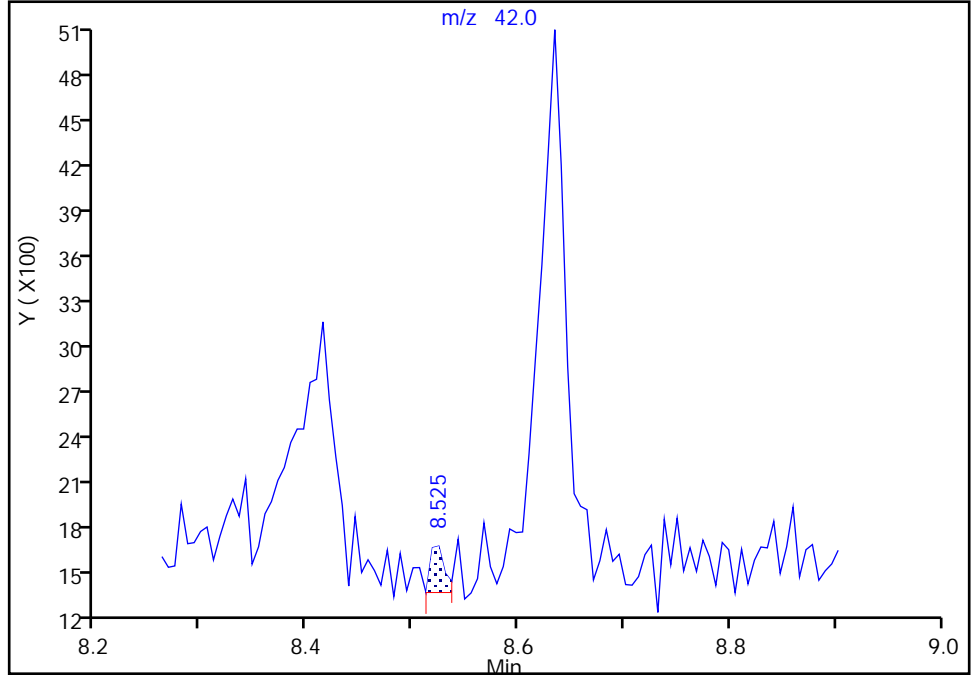
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Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

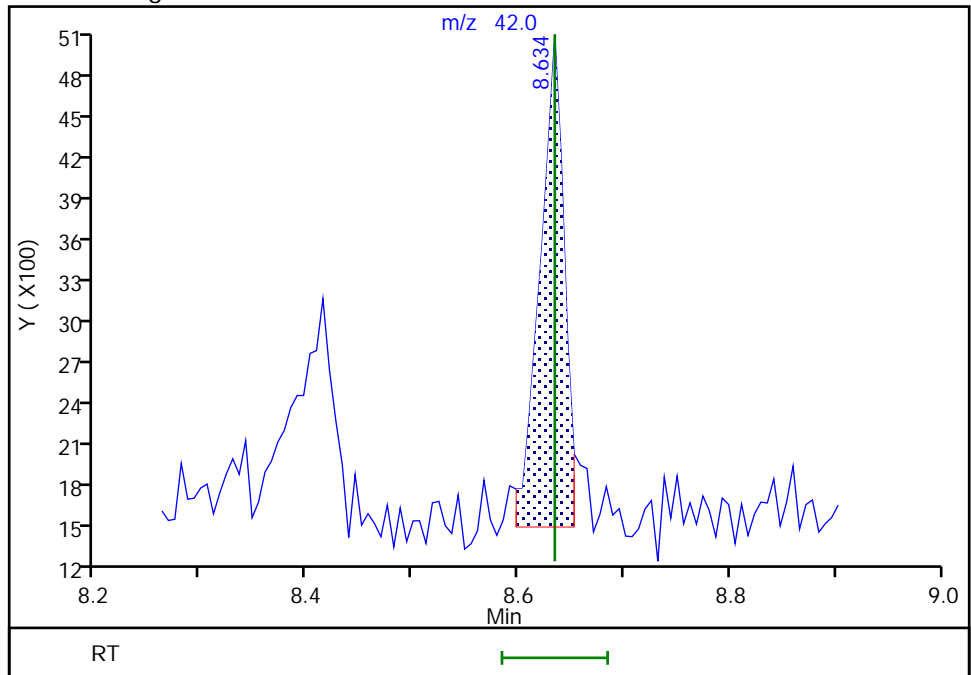
RT: 8.52  
Area: 296  
Amount: 2.726882  
Amount Units: ug/L

Processing Integration Results



RT: 8.63  
Area: 5839  
Amount: 8.451427  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:05:00  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

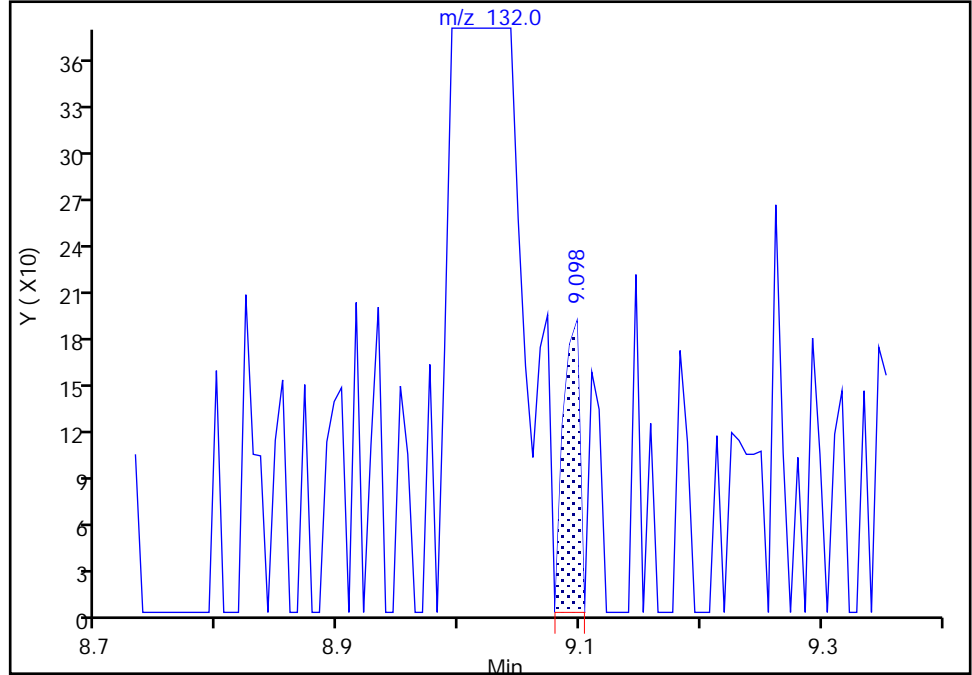
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Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

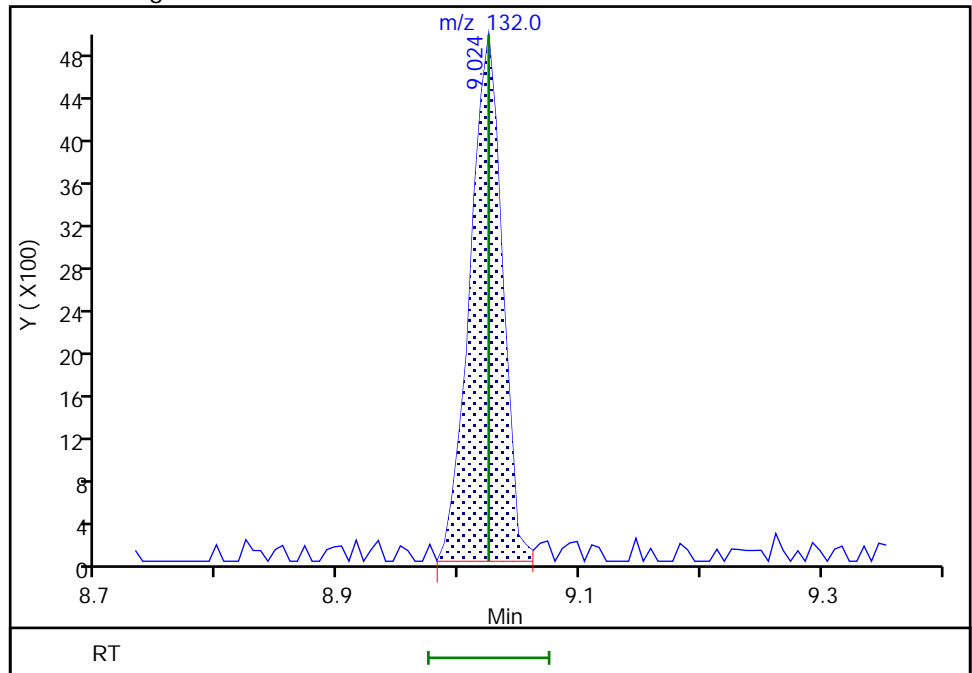
RT: 9.10  
Area: 176  
Amount: 0.159169  
Amount Units: ug/L

Processing Integration Results



RT: 9.02  
Area: 9315  
Amount: 5.091103  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

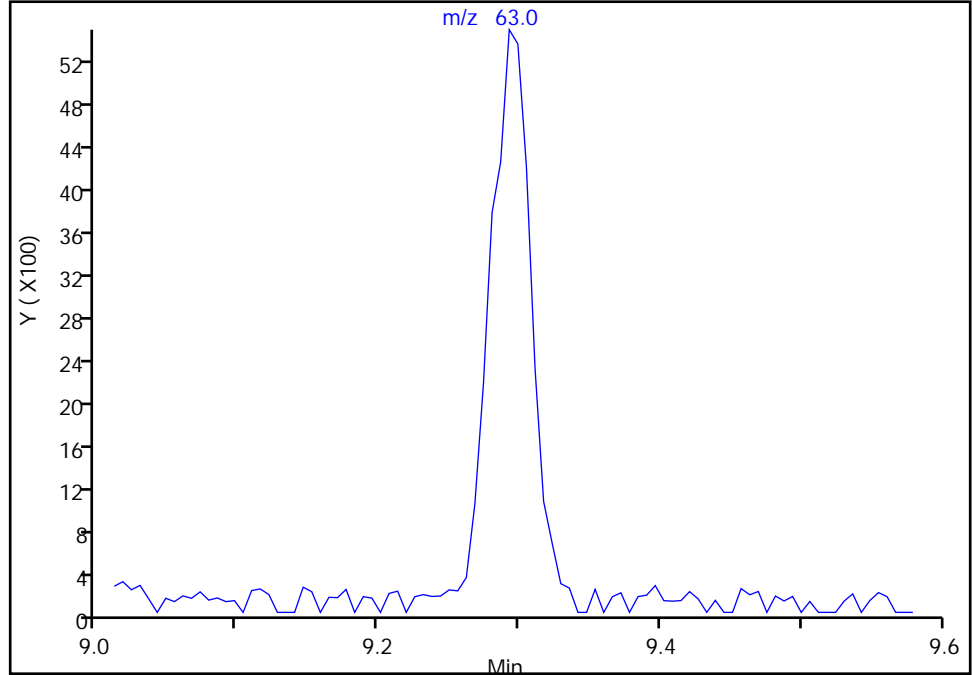
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Injection Date: 01-Oct-2020 18:13:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 5 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

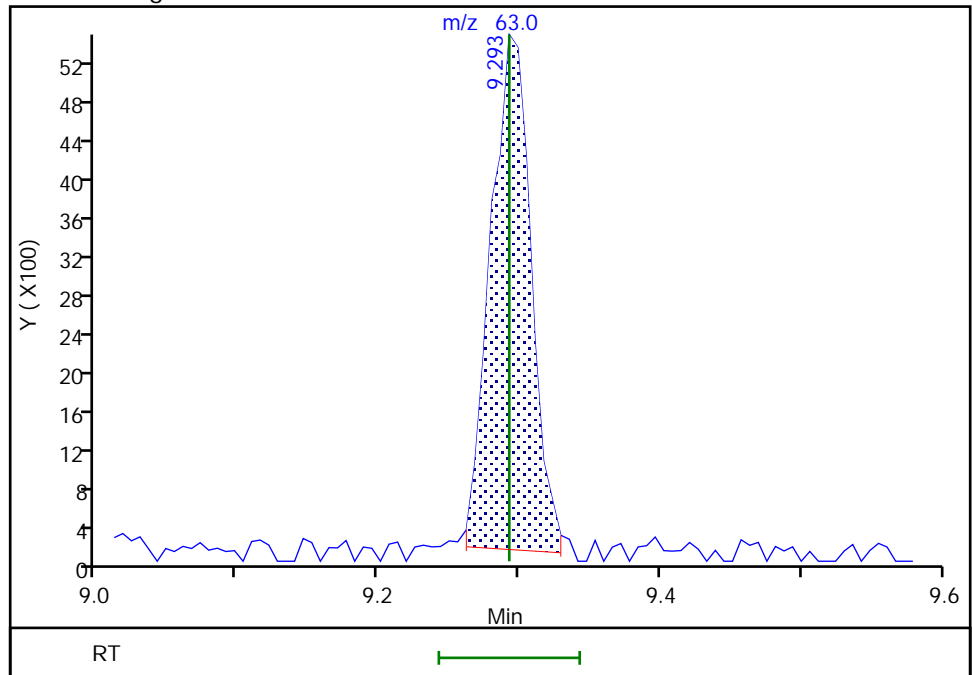
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 10615  
Amount: 4.943176  
Amount Units: ug/L





Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 01-Oct-2020 18:39:30 ALS Bottle#: 6 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 1  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 02-Oct-2020 11:33:01 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1029

First Level Reviewer: jantanuc

Date: 02-Oct-2020 13:57:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.703	1.703	0.000	79	6077	10.0	7.73	M
4 Chloromethane	50	1.922	1.922	0.000	99	28191	10.0	9.78	
5 Vinyl chloride	62	2.050	2.050	0.000	80	15129	10.0	8.70	
6 Butadiene	54	2.105	2.105	0.000	90	16660	10.0	9.26	M
7 Bromomethane	94	2.428	2.428	0.000	71	6540	10.0	8.24	M
8 Chloroethane	66	2.556	2.556	0.000	60	2245	10.0	9.11	M
10 Dichlorofluoromethane	67	2.904	2.904	0.000	74	23592	10.0	10.9	M
14 Trichlorofluoromethane	101	2.928	2.928	0.000	70	21612	10.0	9.80	M
11 3-Chloro-1-propene	76	2.952	2.952	0.000	22	616	10.0	11.7	M
17 Ethyl ether	59	3.330	3.330	0.000	94	18875	10.0	9.79	
12 Acrolein	56	3.513	3.513	0.000	90	24526	60.0	55.6	
19 1,1-Dichloroethene	96	3.678	3.678	0.000	81	10577	10.0	9.85	M
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.727	3.727	0.000	64	9885	10.0	9.57	M
16 Acetone	43	3.751	3.751	0.000	94	43868	50.0	45.1	
22 Iodomethane	142	3.891	3.891	0.000	96	18852	10.0	9.64	M
26 Carbon disulfide	76	4.001	4.001	0.000	98	38886	10.0	9.57	M
S 2 Xylenes, Total	100				0			18.4	
15 Isopropyl alcohol	45	4.105	4.105	0.000	48	19366	100.0	98.0	M
13 Acetonitrile	40	4.245	4.245	0.000	86	16710	125.0	136.1	M
24 Methyl acetate	43	4.300	4.300	0.000	96	34167	20.0	17.0	
23 Methylene Chloride	84	4.525	4.525	0.000	75	15867	10.0	8.95	M
* 18 TBA-d9 (IS)	65	4.678	4.678	0.000	0	38629	200.0	200.0	
20 2-Methyl-2-propanol	59	4.855	4.855	0.000	82	27103	100.0	95.1	M
21 Acrylonitrile	53	4.983	4.983	0.000	99	76533	100.0	91.8	
27 trans-1,2-Dichloroethene	96	5.056	5.056	0.000	83	15921	10.0	9.59	
28 Methyl tert-butyl ether	73	5.074	5.074	0.000	85	48568	10.0	10.1	
34 Hexane	57	5.629	5.629	0.000	89	48007	10.0	10.6	
30 1,1-Dichloroethane	63	5.897	5.897	0.000	84	40087	10.0	10.3	
31 Vinyl acetate	86	5.976	5.976	0.000	97	9501	25.0	25.5	
32 2-Chloro-1,3-butadiene	53	6.031	6.031	0.000	76	48704	10.0	10.1	
35 Isopropyl ether	45	6.056	6.056	0.000	58	118866	12.5	12.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.690	6.690	0.000	96	28049	12.5	12.8	
43 2,2-Dichloropropane	77	6.903	6.903	0.000	70	26449	10.0	10.2	M
37 cis-1,2-Dichloroethene	96	6.921	6.921	0.000	81	18440	10.0	9.89	
33 2-Butanone (MEK)	72	6.940	6.927	0.013	87	8267	50.0	41.0	
29 Propionitrile	54	7.019	7.019	0.000	83	37162	125.0	114.6	
38 Ethyl acetate	43	7.055	7.055	0.000	97	52695	20.0	19.4	
36 Methacrylonitrile	67	7.263	7.263	0.000	96	65750	100.0	93.7	
39 Chlorobromomethane	130	7.305	7.305	0.000	74	11207	10.0	10.1	
40 Chloroform	83	7.506	7.506	0.000	76	32436	10.0	9.75	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	88	29062	10.0	10.4	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	53	18004	10.0	10.2	
51 Cyclohexane	84	7.793	7.793	0.000	92	23601	10.0	9.88	
52 Carbon tetrachloride	117	7.921	7.921	0.000	79	25719	10.0	10.1	
50 1,1-Dichloropropene	75	7.945	7.945	0.000	78	24543	10.0	9.62	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	23856	10.0	9.95	
53 Benzene	78	8.195	8.195	0.000	92	69862	10.0	10.0	
42 Isobutyl alcohol	43	8.214	8.214	0.000	89	34690	250.0	236.3	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	75	32087	10.0	9.79	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	77	60988	12.5	11.9	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	96	66133	10.0	10.0	
45 Tetrahydrofuran	42	8.628	8.628	0.000	35	14384	20.0	21.7	Ma
56 n-Heptane	43	8.628	8.628	0.000	92	51789	10.0	10.3	
61 Trichloroethene	132	9.018	9.018	0.000	86	18723	10.0	9.80	a
57 Ethyl acrylate	55	9.159	9.159	0.000	96	31671	10.0	8.67	
66 Methylcyclohexane	83	9.262	9.262	0.000	92	28778	10.0	9.22	
49 n-Butanol	56	9.262	9.262	0.000	44	13596	250.0	266.7	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	77	22091	10.0	9.85	a
59 Dibromomethane	174	9.384	9.384	0.000	47	9966	10.0	10.1	
63 Methyl methacrylate	69	9.402	9.402	0.000	83	22294	20.0	19.0	
62 Dichlorobromomethane	83	9.585	9.585	0.000	85	24436	10.0	9.37	
58 2-Nitropropane	43	9.805	9.805	0.000	97	22589	20.0	18.5	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	79	10549	10.0	10.5	
67 cis-1,3-Dichloropropene	75	10.030	10.030	0.000	74	28982	10.0	9.25	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	98	38585	50.0	43.3	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	95	66341	10.0	9.91	
74 Toluene	91	10.341	10.341	0.000	95	77230	10.0	9.35	
70 n-Butyl acetate	43	10.482	10.482	0.000	49	7202	10.0	12.9	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	83	27545	10.0	9.63	
73 Ethyl methacrylate	69	10.622	10.622	0.000	85	20260	10.0	9.41	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	87	14421	10.0	9.59	
79 Tetrachloroethene	164	10.817	10.817	0.000	87	14847	10.0	9.60	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	90	24900	10.0	9.40	
76 2-Hexanone	58	10.933	10.933	0.000	80	38021	50.0	43.5	
77 Chlorodibromomethane	129	11.079	11.079	0.000	83	18136	10.0	9.41	
78 Ethylene Dibromide	107	11.170	11.170	0.000	90	14568	10.0	9.90	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	90	53259	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	89	50900	10.0	9.87	
80 1,1,1,2-Tetrachloroethane	131	11.682	11.682	0.000	41	18608	10.0	9.42	
83 Ethylbenzene	91	11.682	11.682	0.000	98	84458	10.0	9.90	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	65665	10.0	8.76	
88 o-Xylene	91	12.115	12.115	0.000	95	67296	10.0	9.63	
86 Styrene	104	12.134	12.134	0.000	92	45849	10.0	9.18	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	89	10948	10.0	9.51	
91 Isopropylbenzene	105	12.414	12.414	0.000	97	81835	10.0	9.65	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	82	18981	10.0	9.86	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	88	15388	10.0	8.98	
93 Bromobenzene	156	12.682	12.682	0.000	87	18372	10.0	9.58	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	54	8275	10.0	9.11	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	28	5319	10.0	9.78	
94 N-Propylbenzene	91	12.749	12.749	0.000	94	92028	10.0	9.71	
95 2-Chlorotoluene	126	12.835	12.835	0.000	95	18973	10.0	9.94	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	85	68763	10.0	10.0	
96 4-Chlorotoluene	126	12.926	12.926	0.000	80	17624	10.0	8.87	
98 tert-Butylbenzene	119	13.152	13.152	0.000	94	61242	10.0	9.73	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	64	65597	10.0	9.59	
100 sec-Butylbenzene	105	13.322	13.322	0.000	96	85133	10.0	9.61	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	95	32850	10.0	9.46	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	97	68799	10.0	9.37	
* 103 1,4-Dichlorobenzene-d4	152	13.487	13.487	0.000	89	22433	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	89	31909	10.0	9.17	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	97	67315	10.0	9.27	
101 Benzyl chloride	126	13.597	13.597	0.000	97	7632	10.0	10.2	
108 n-Butylbenzene	134	13.761	13.761	0.000	98	17347	10.0	9.54	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	90	32514	10.0	9.78	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.401	0.000	64	3611	10.0	10.1	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	93	23373	10.0	9.14	
111 1,2,4-Trichlorobenzene	180	15.035	15.035	0.000	89	20927	10.0	9.67	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	90	13170	10.0	9.92	
112 Naphthalene	128	15.249	15.249	0.000	97	52189	10.0	8.85	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	93	20585	10.0	9.24	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 1.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D

Injection Date: 01-Oct-2020 18:39:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 6

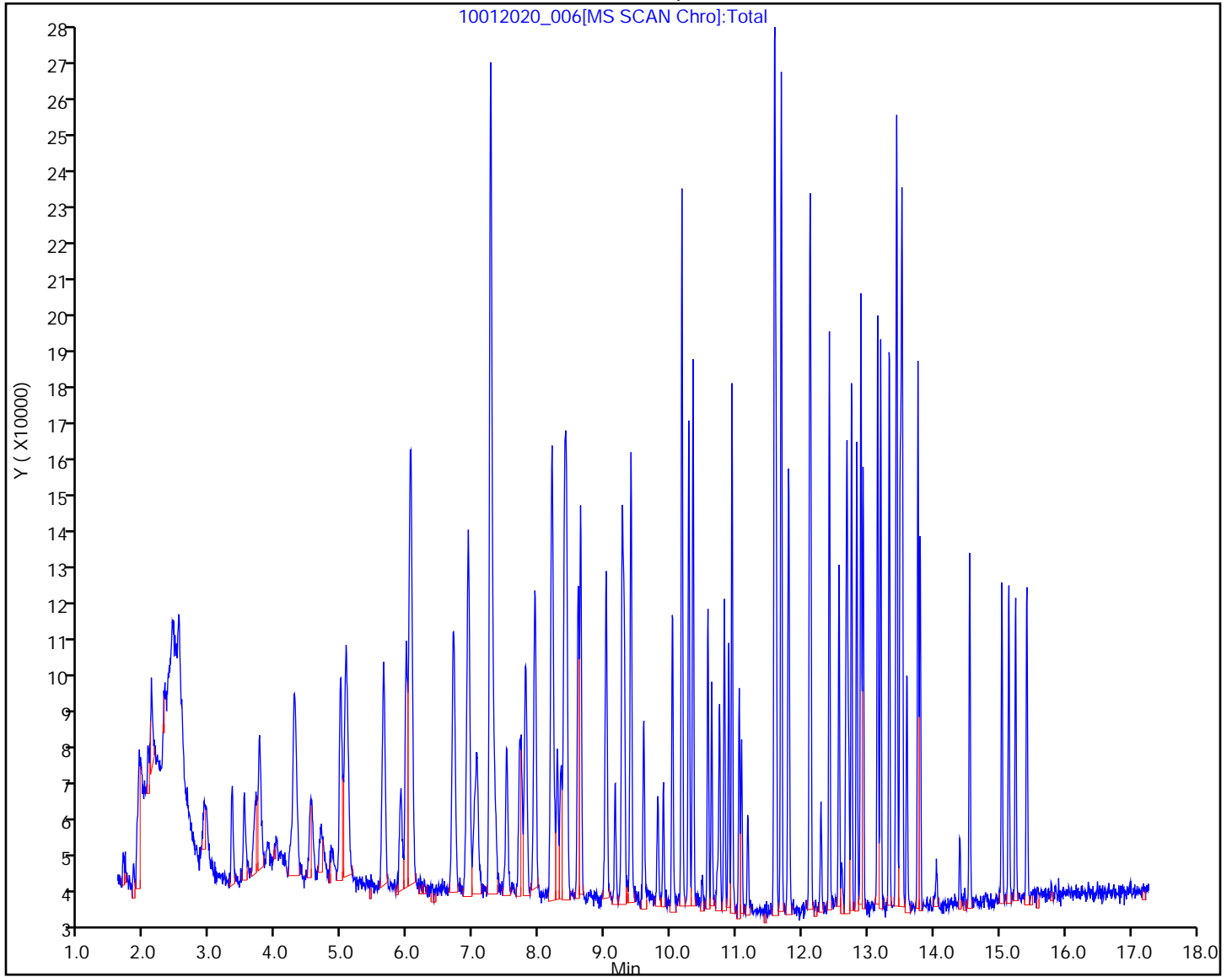
Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

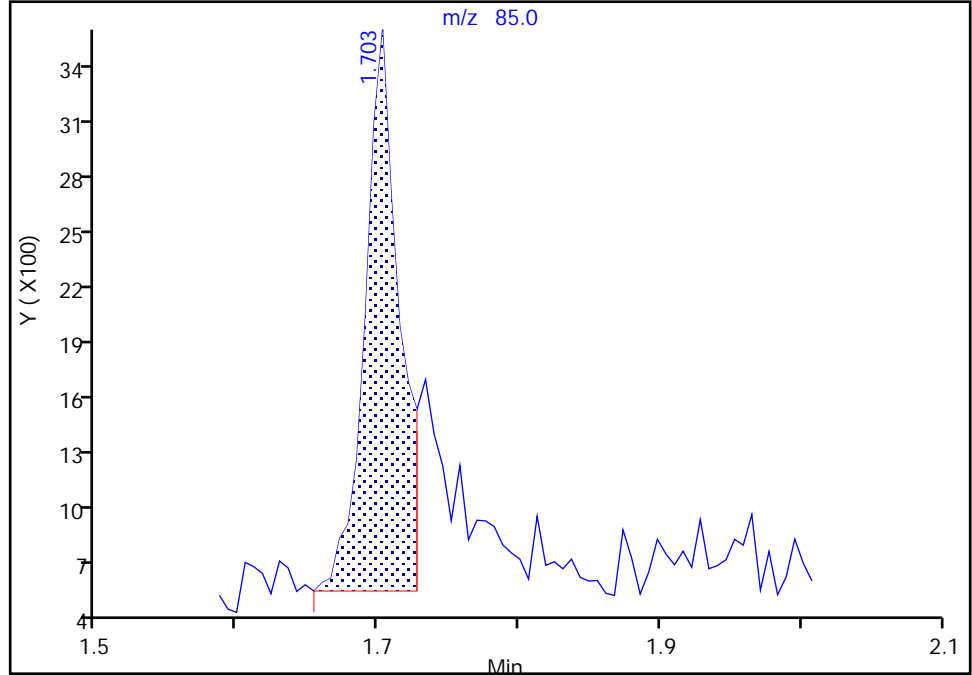
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Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

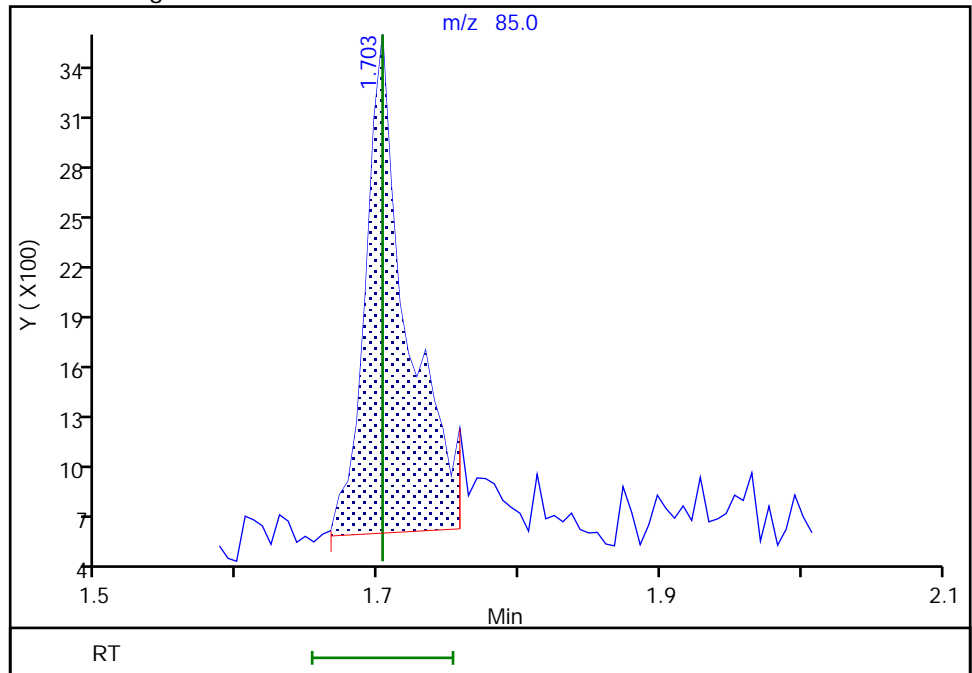
RT: 1.70  
Area: 5086  
Amount: 6.594574  
Amount Units: ug/L

Processing Integration Results



RT: 1.70  
Area: 6077  
Amount: 7.734854  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 08:46:48  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

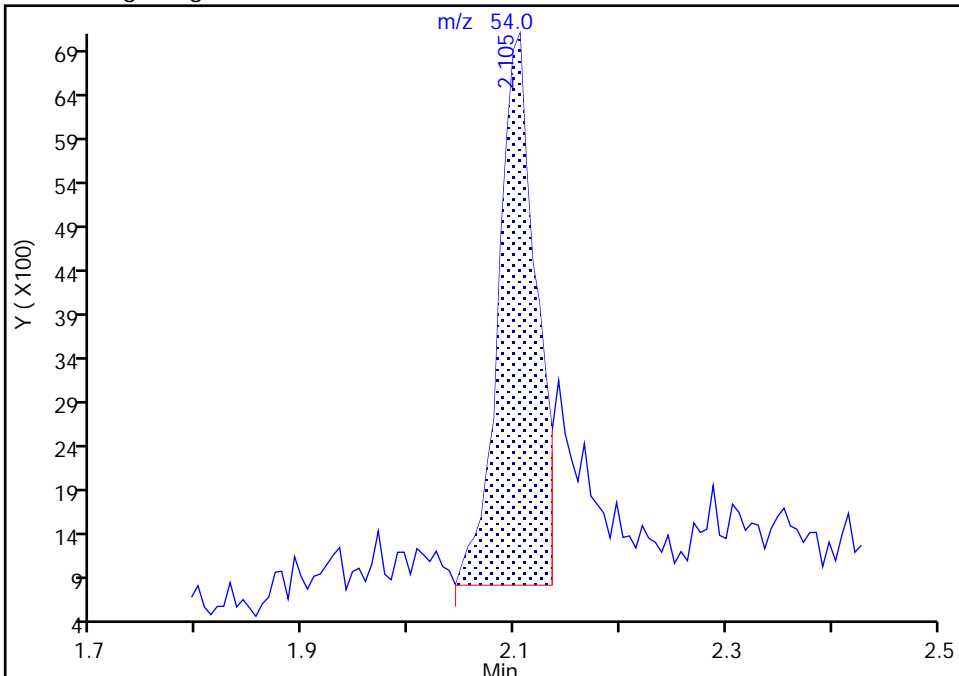
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Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

6 Butadiene, CAS: 106-99-0

Signal: 1

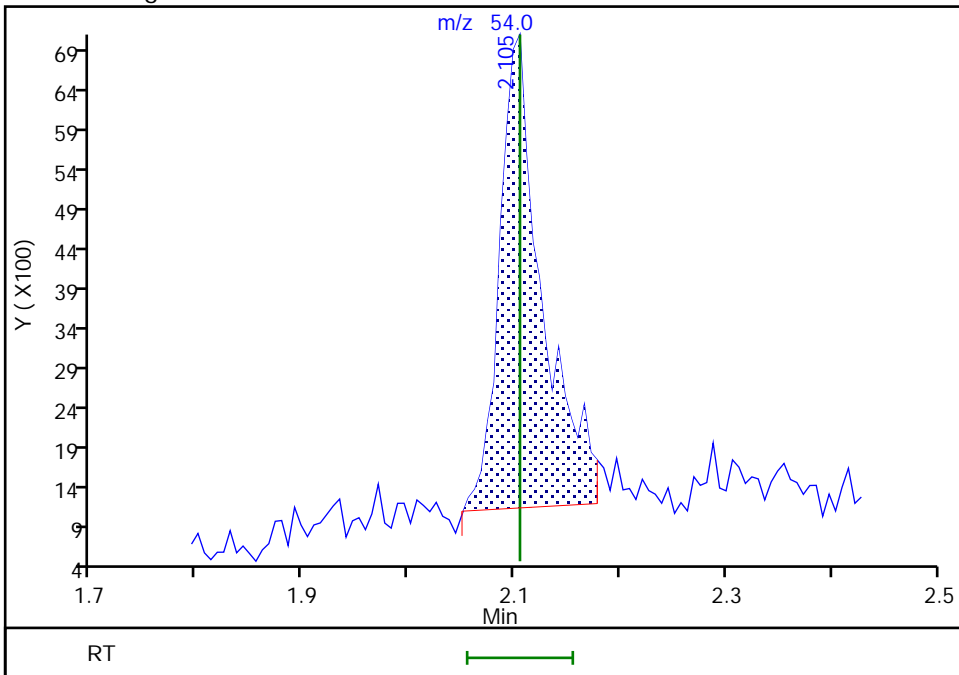
RT: 2.11  
Area: 15524  
Amount: 8.685837  
Amount Units: ug/L

Processing Integration Results



RT: 2.11  
Area: 16660  
Amount: 9.256072  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 08:46:41  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

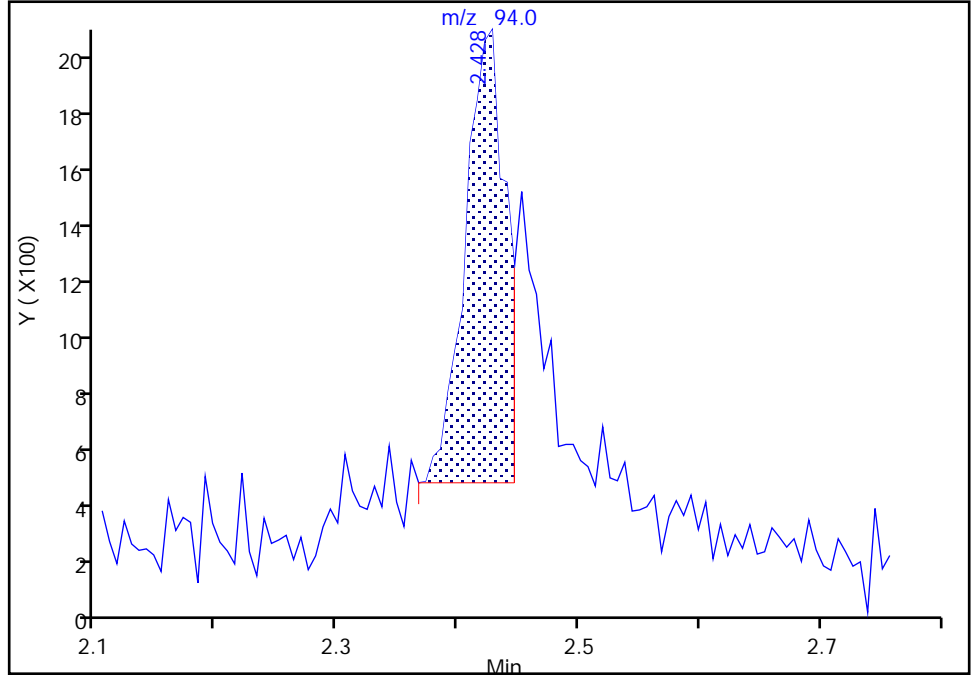
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

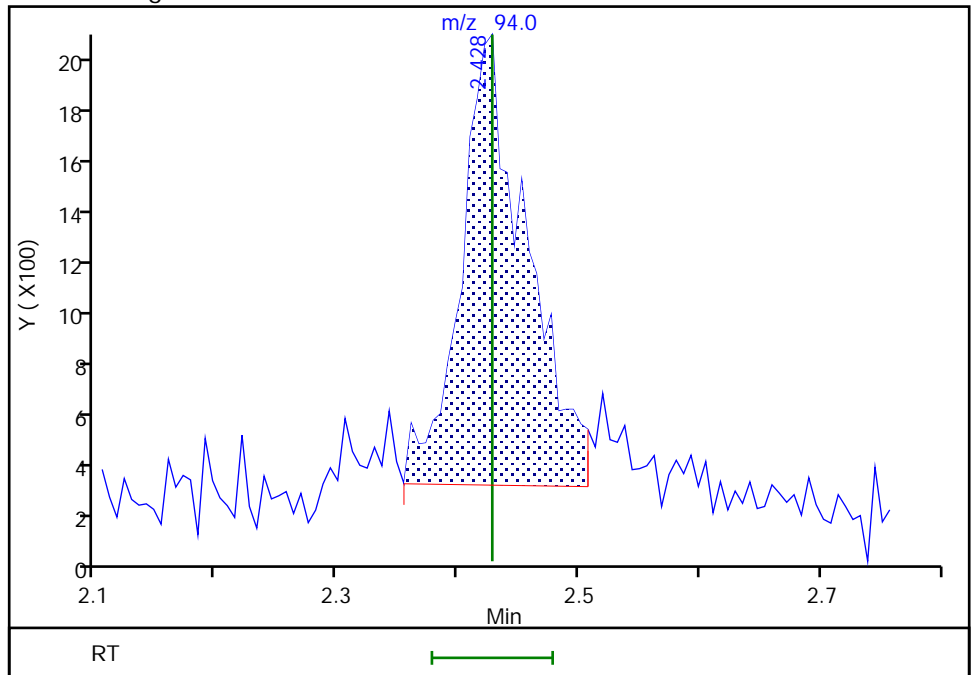
RT: 2.43  
Area: 3673  
Amount: 4.991483  
Amount Units: ug/L

Processing Integration Results



RT: 2.43  
Area: 6540  
Amount: 8.241862  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:19:47  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

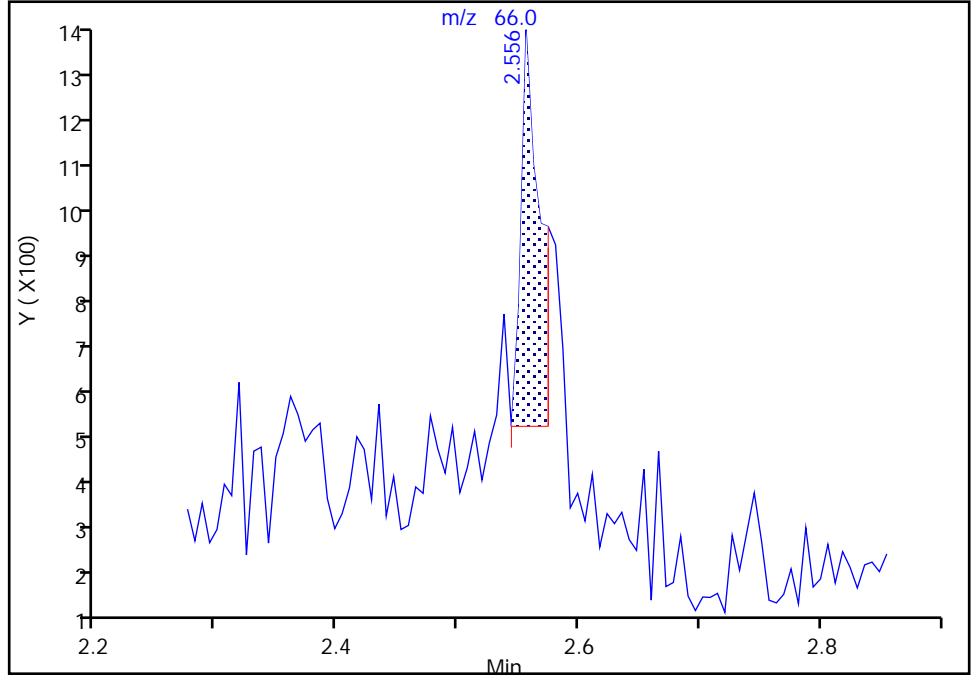
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Signal: 1

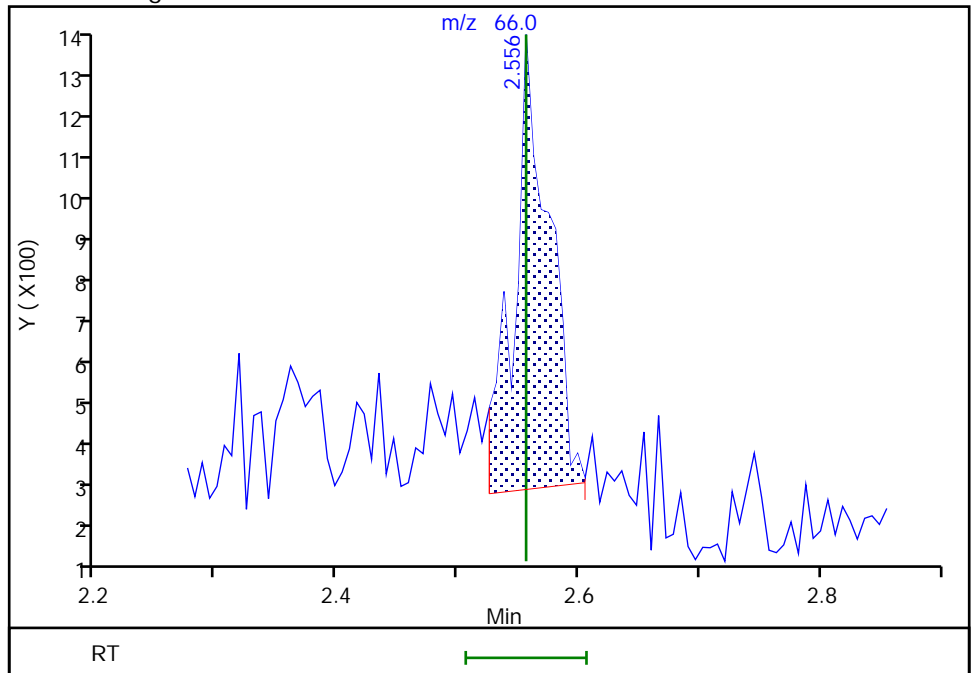
RT: 2.56  
Area: 955  
Amount: 3.948417  
Amount Units: ug/L

Processing Integration Results



RT: 2.56  
Area: 2245  
Amount: 9.114883  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:24:30  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

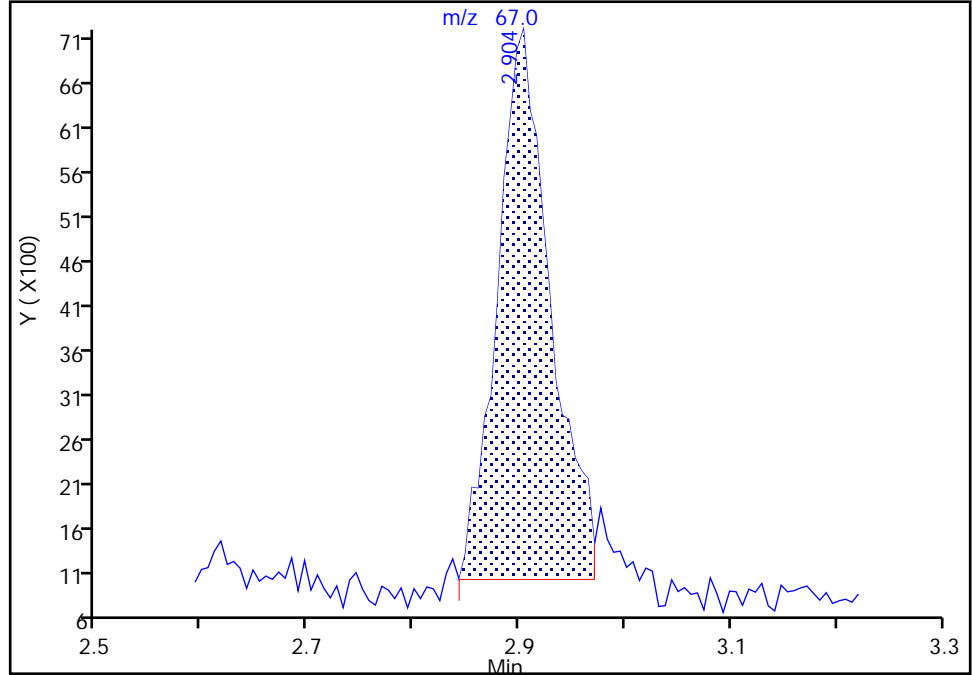
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

10 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

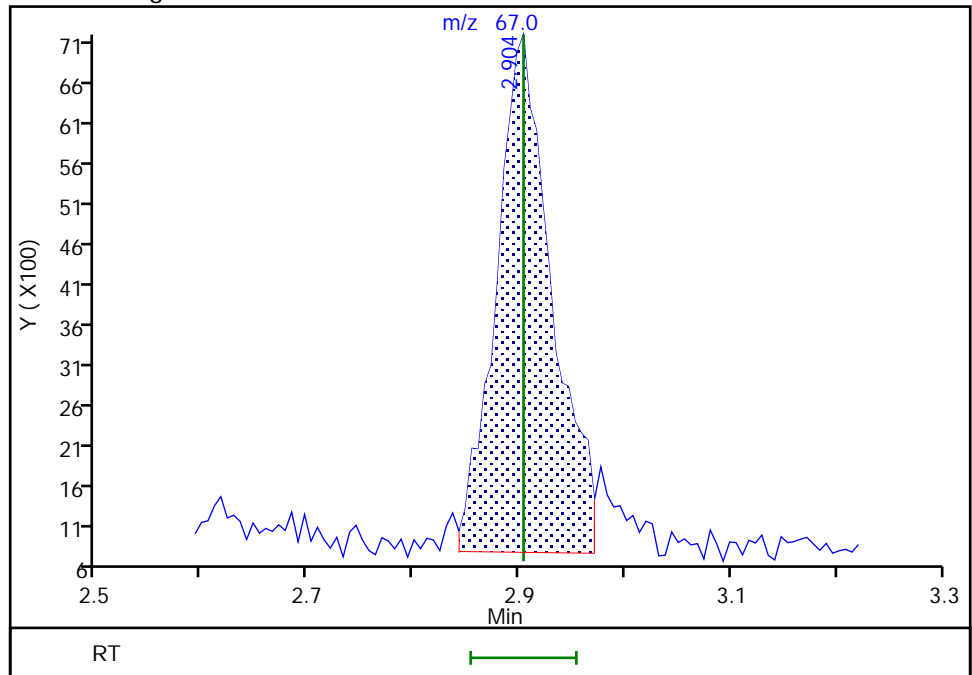
RT: 2.90  
Area: 21499  
Amount: 11.107981  
Amount Units: ug/L

Processing Integration Results



RT: 2.90  
Area: 23592  
Amount: 10.908101  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:55:26  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

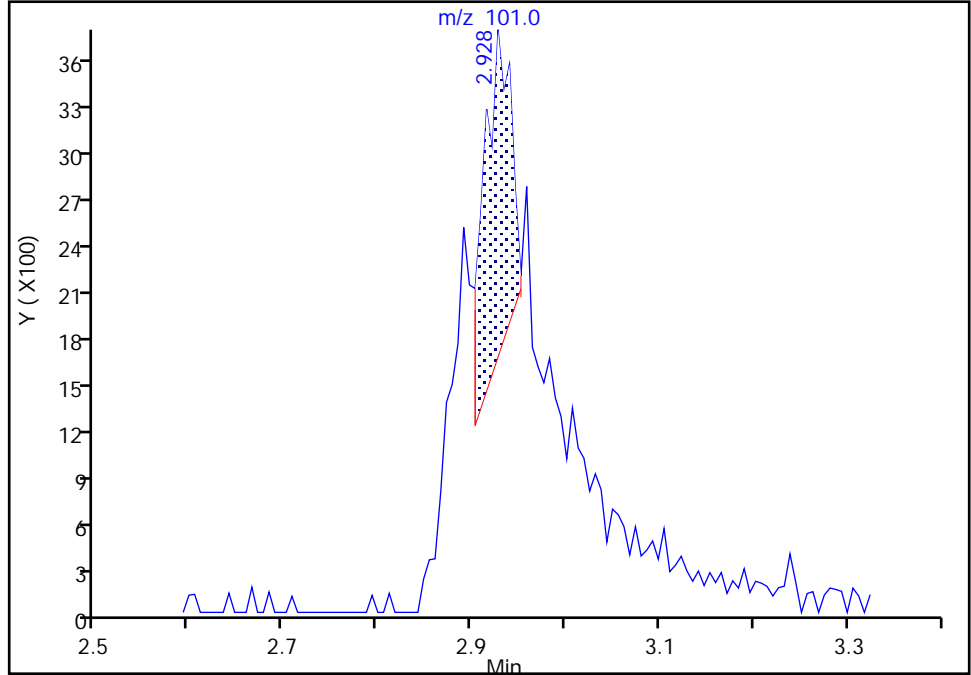
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

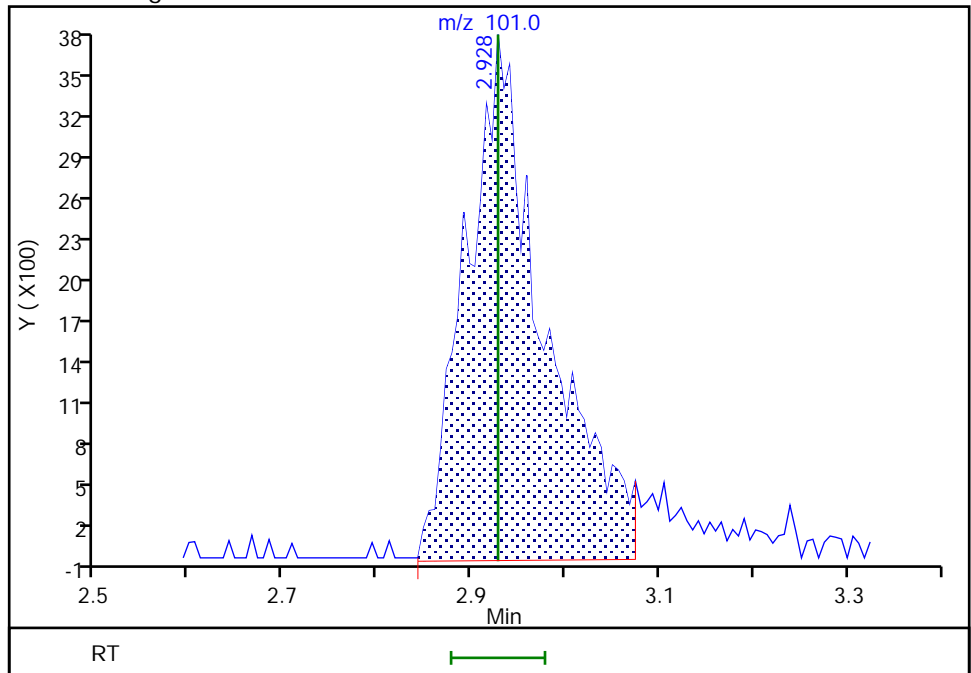
RT: 2.93  
Area: 4196  
Amount: 3.143222  
Amount Units: ug/L

Processing Integration Results



RT: 2.93  
Area: 21612  
Amount: 9.797450  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:55:30  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

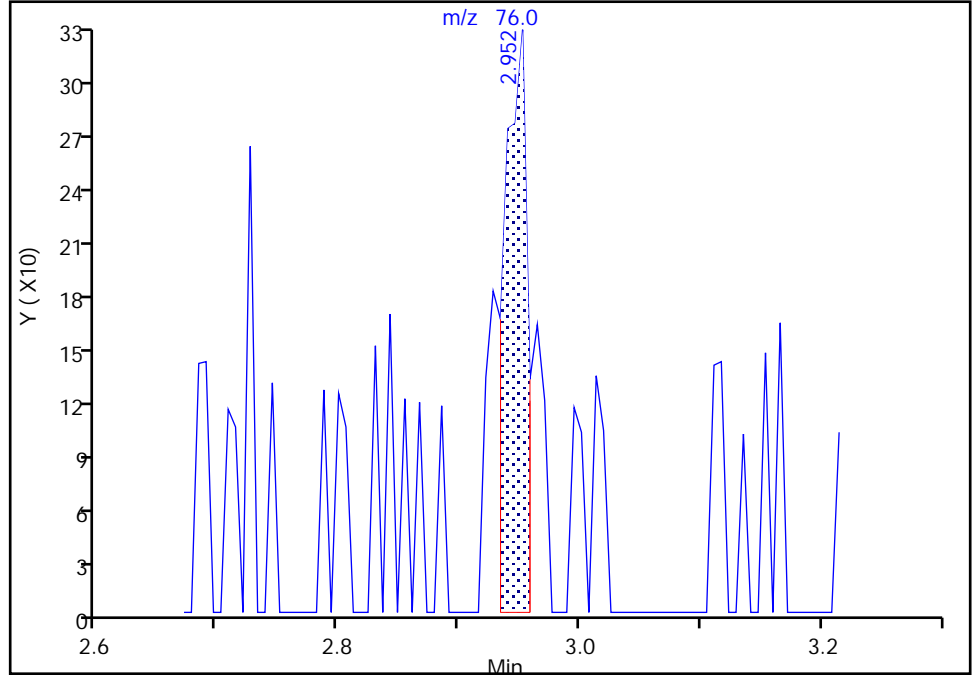
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

11 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

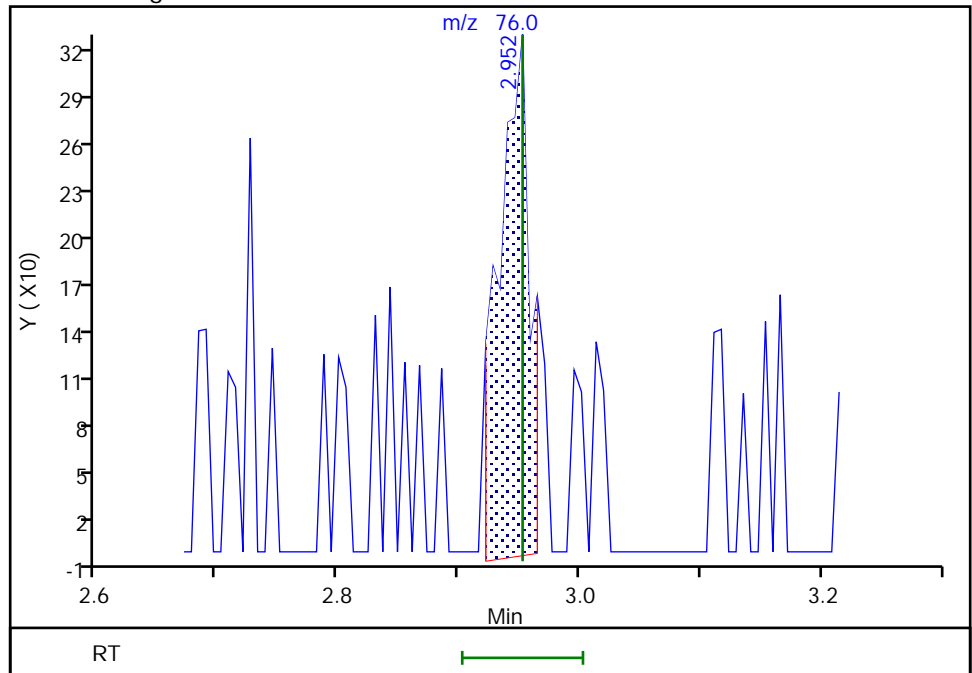
RT: 2.95  
Area: 431  
Amount: 4.305507  
Amount Units: ug/L

Processing Integration Results



RT: 2.95  
Area: 616  
Amount: 11.747588  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:28:01  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 443 of 974

Eurofins TestAmerica, Seattle

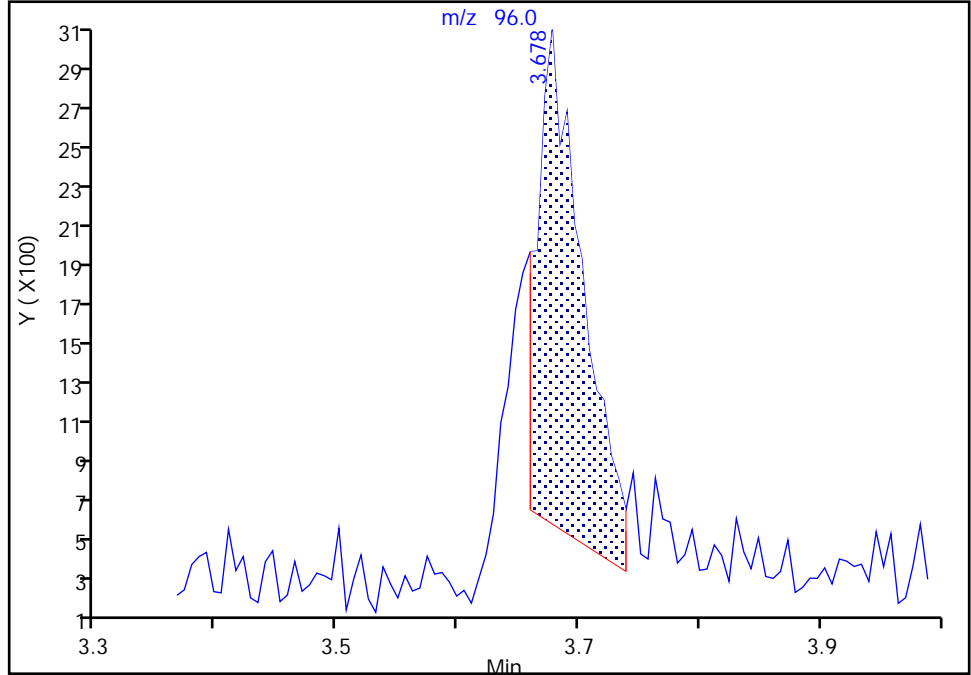
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

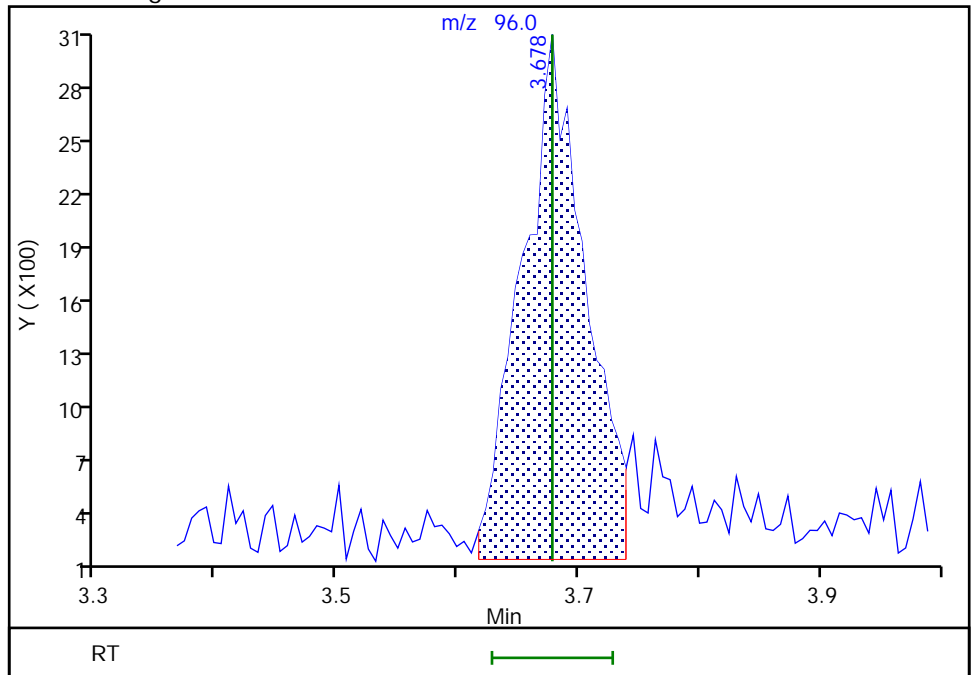
RT: 3.68  
Area: 6563  
Amount: 10.129562  
Amount Units: ug/L

Processing Integration Results



RT: 3.68  
Area: 10577  
Amount: 9.850824  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:55:45  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

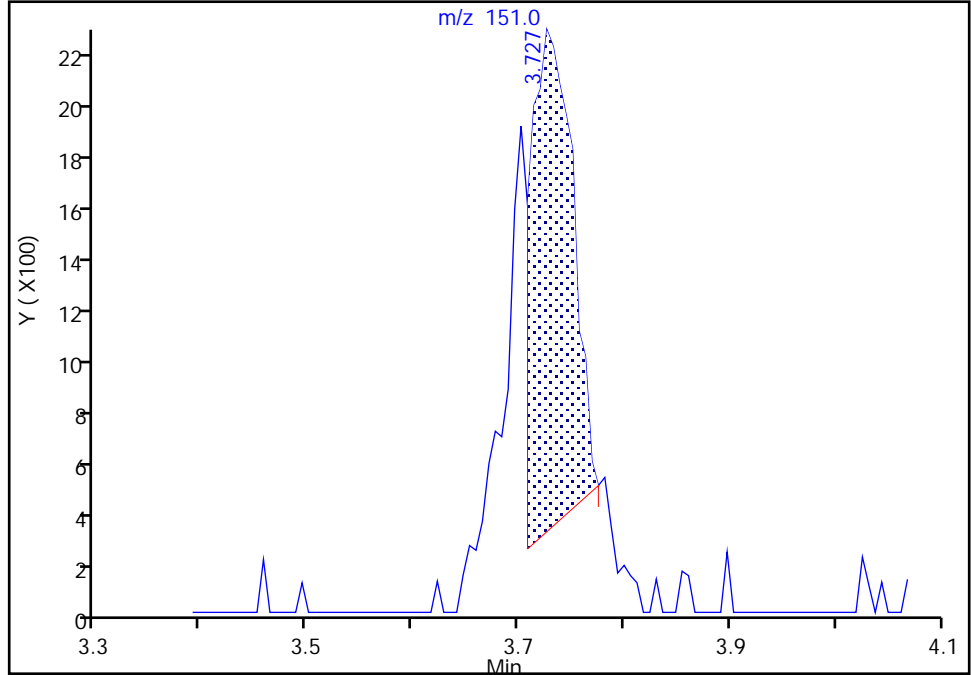
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

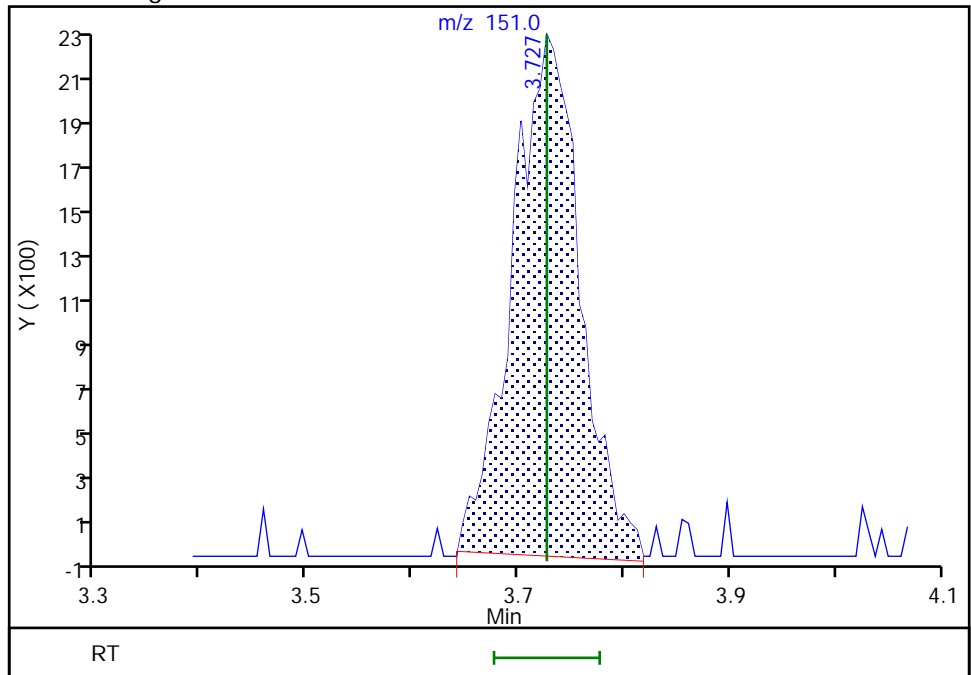
RT: 3.73  
Area: 5192  
Amount: 8.533013  
Amount Units: ug/L

Processing Integration Results



RT: 3.73  
Area: 9885  
Amount: 9.572118  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:56:00  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

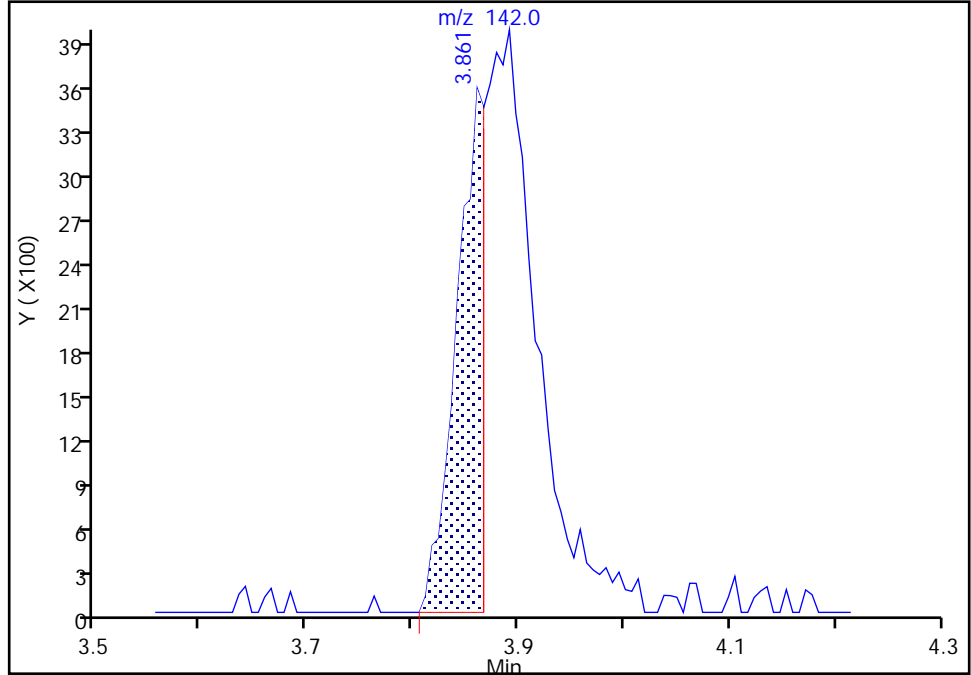
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

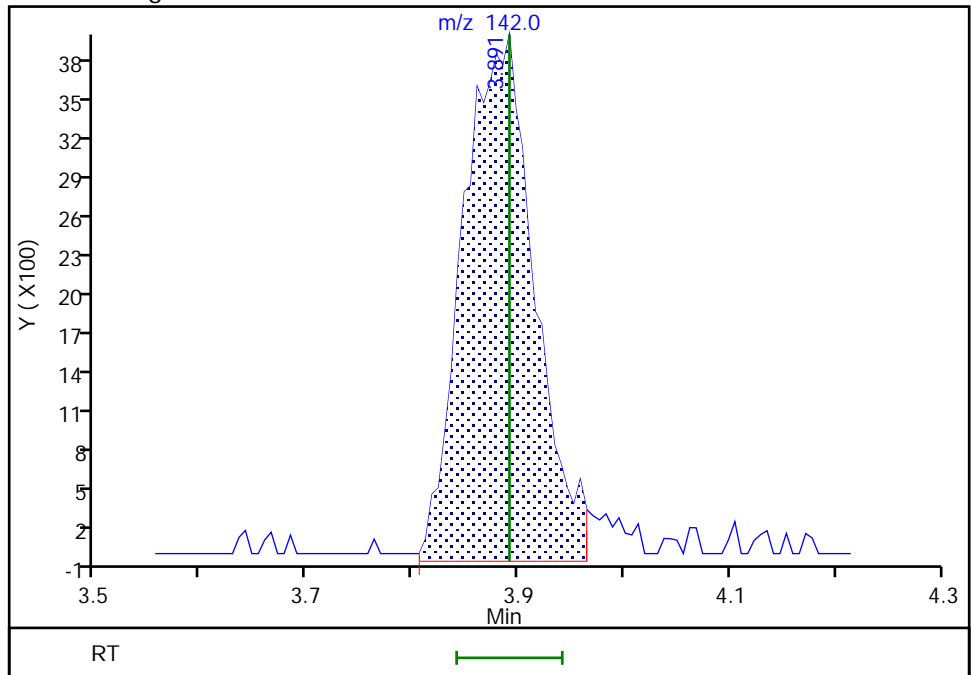
RT: 3.86  
Area: 6600  
Amount: 5.244981  
Amount Units: ug/L

Processing Integration Results



RT: 3.89  
Area: 18852  
Amount: 9.642412  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:55:54  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

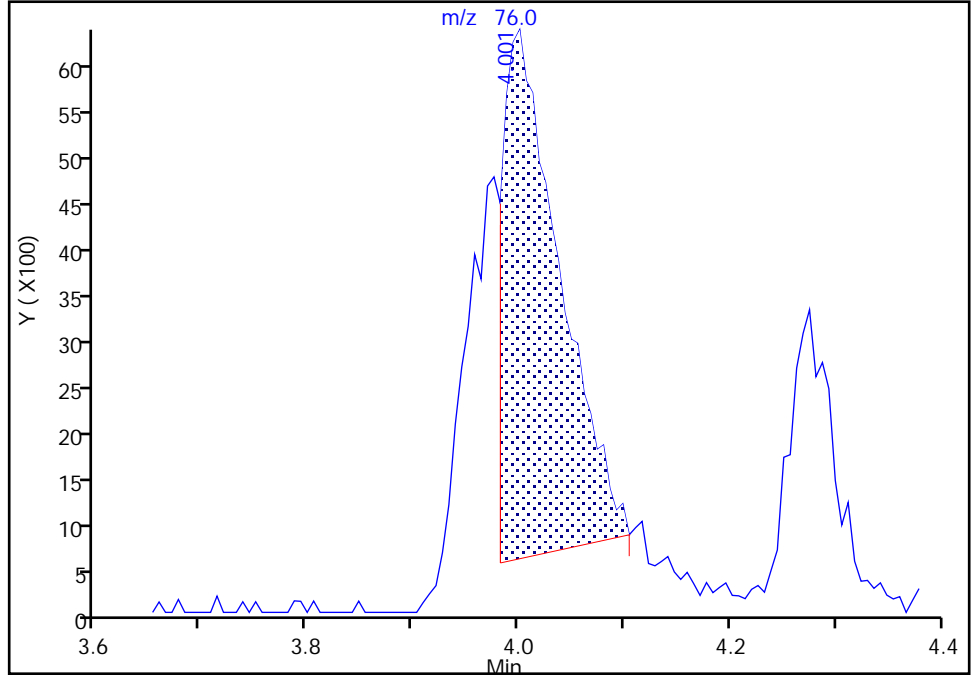
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

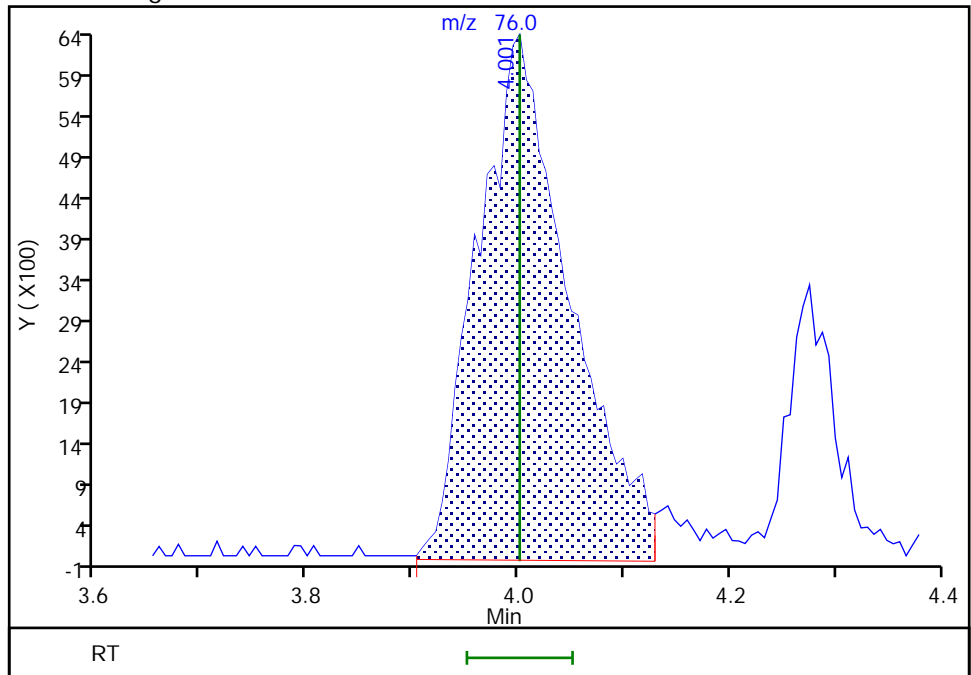
RT: 4.00  
Area: 21692  
Amount: 8.267332  
Amount Units: ug/L

Processing Integration Results



RT: 4.00  
Area: 38886  
Amount: 9.568941  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:56:04  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

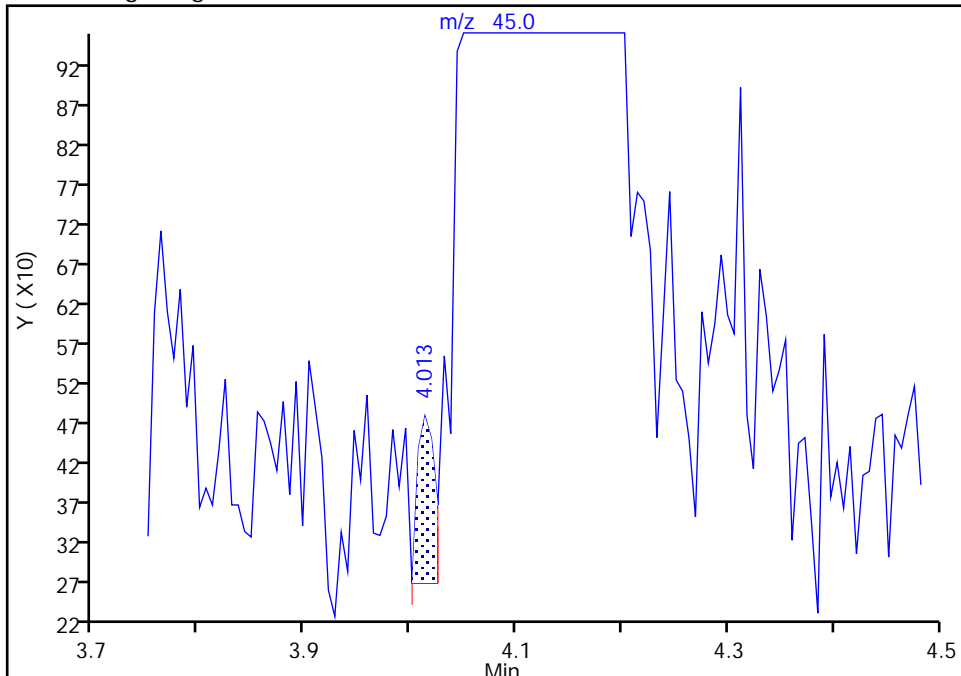
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

15 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

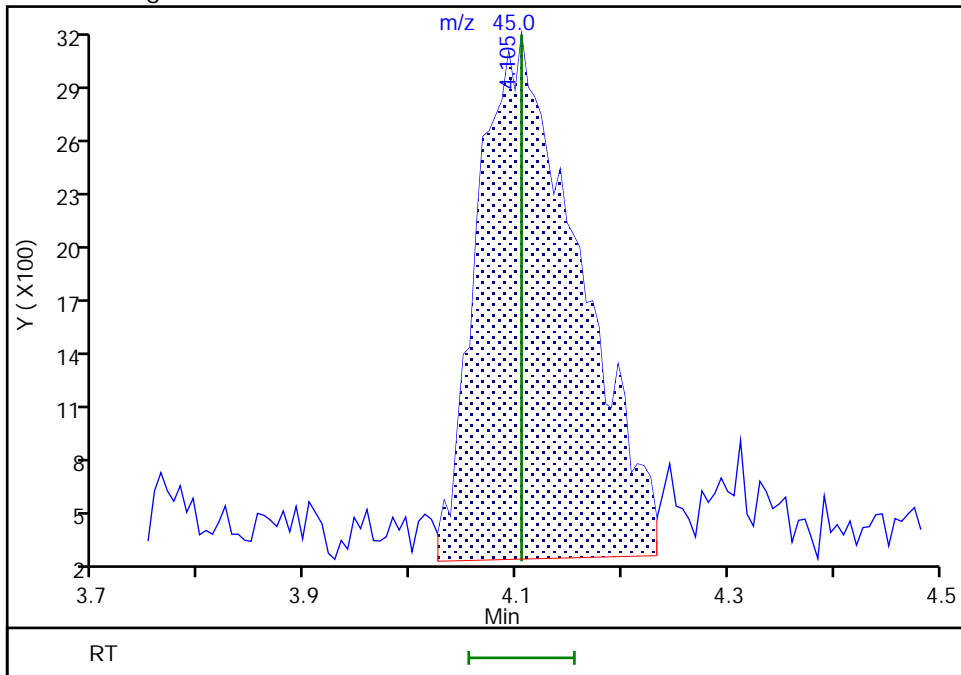
RT: 4.01  
Area: 240  
Amount: 2.142292  
Amount Units: ug/L

Processing Integration Results



RT: 4.10  
Area: 19366  
Amount: 97.964048  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:56:09  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

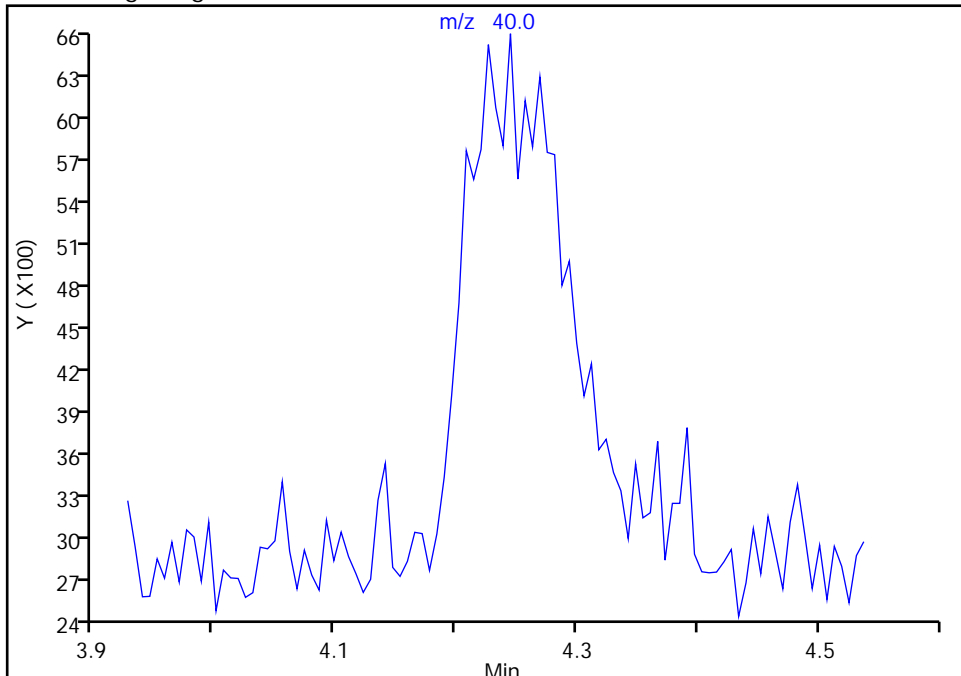
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

13 Acetonitrile, CAS: 75-05-8

Signal: 1

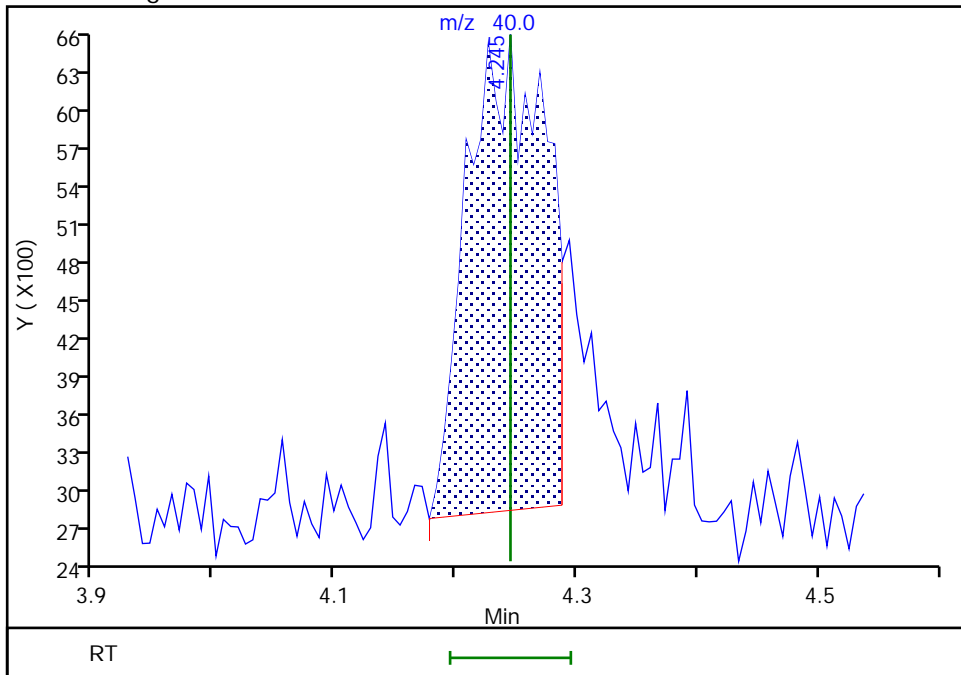
Not Detected  
Expected RT: 4.24

Processing Integration Results



RT: 4.24  
Area: 16710  
Amount: 136.0677  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:31:59  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

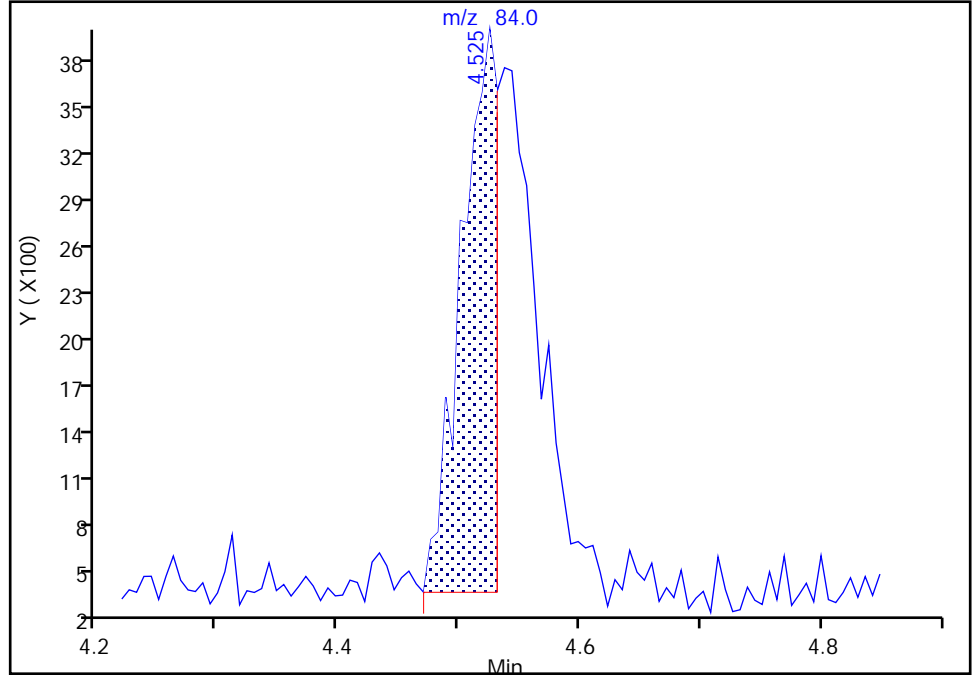
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

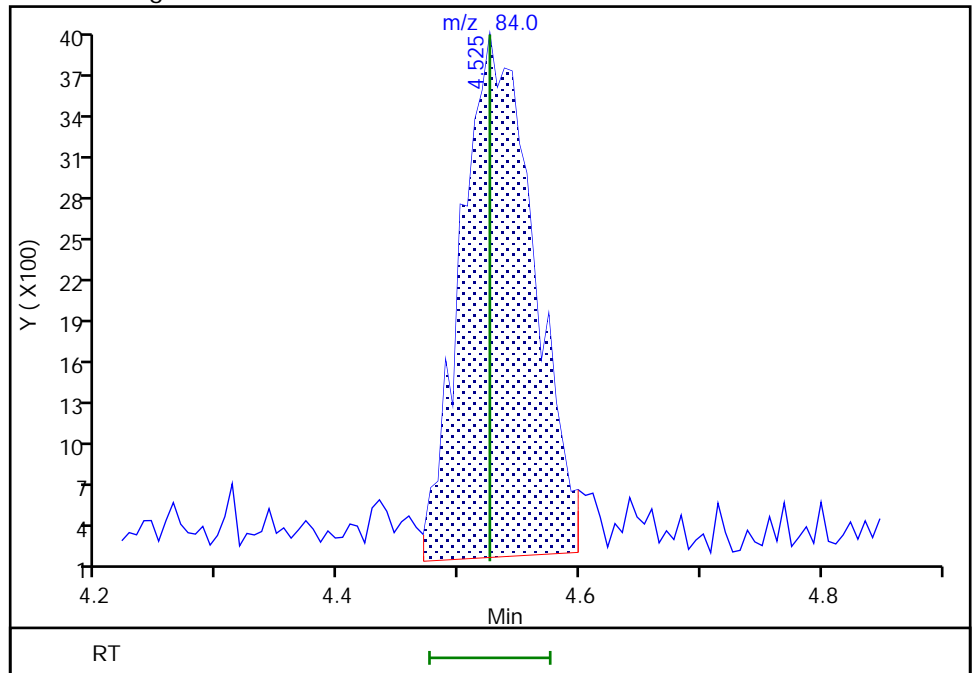
RT: 4.53  
Area: 7571  
Amount: 4.642101  
Amount Units: ug/L

Processing Integration Results



RT: 4.53  
Area: 15867  
Amount: 8.947933  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:56:18  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

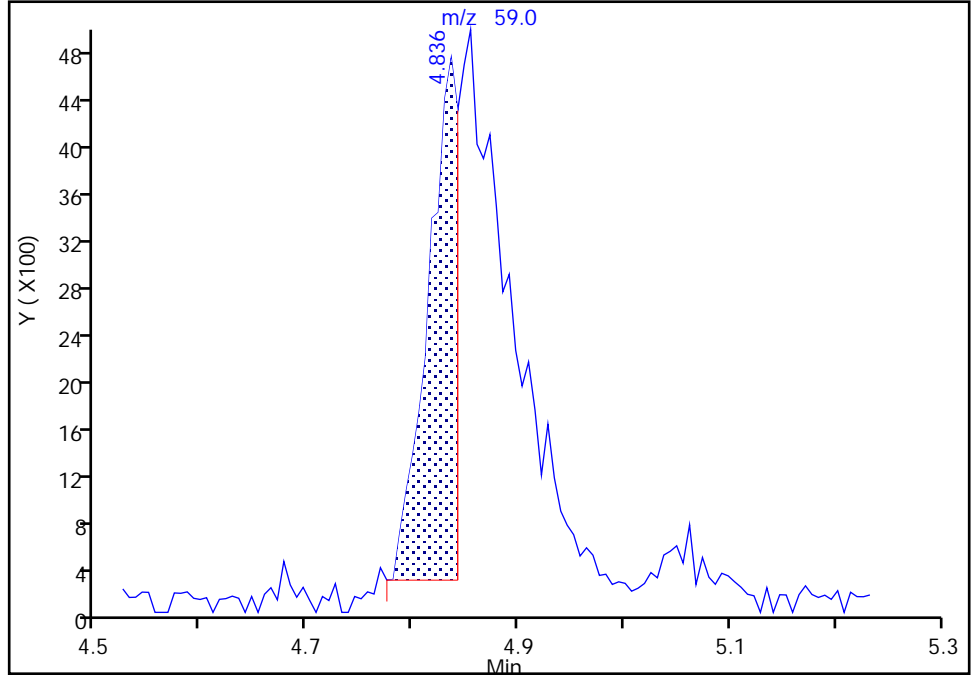
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

20 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

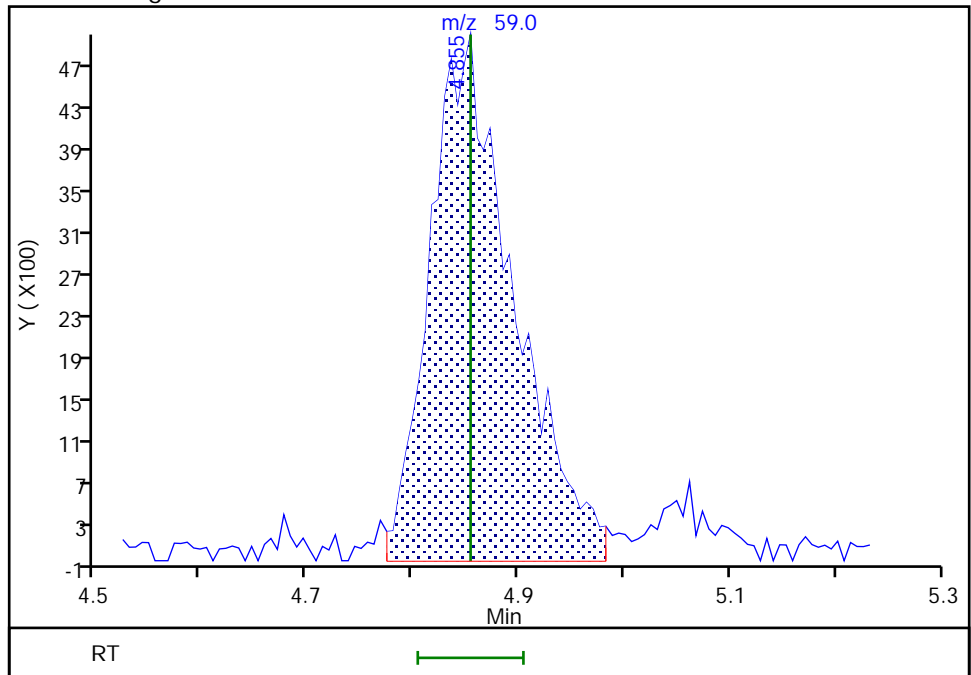
RT: 4.84  
Area: 8814  
Amount: 51.255895  
Amount Units: ug/L

Processing Integration Results



RT: 4.85  
Area: 27103  
Amount: 95.060468  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:56:22  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

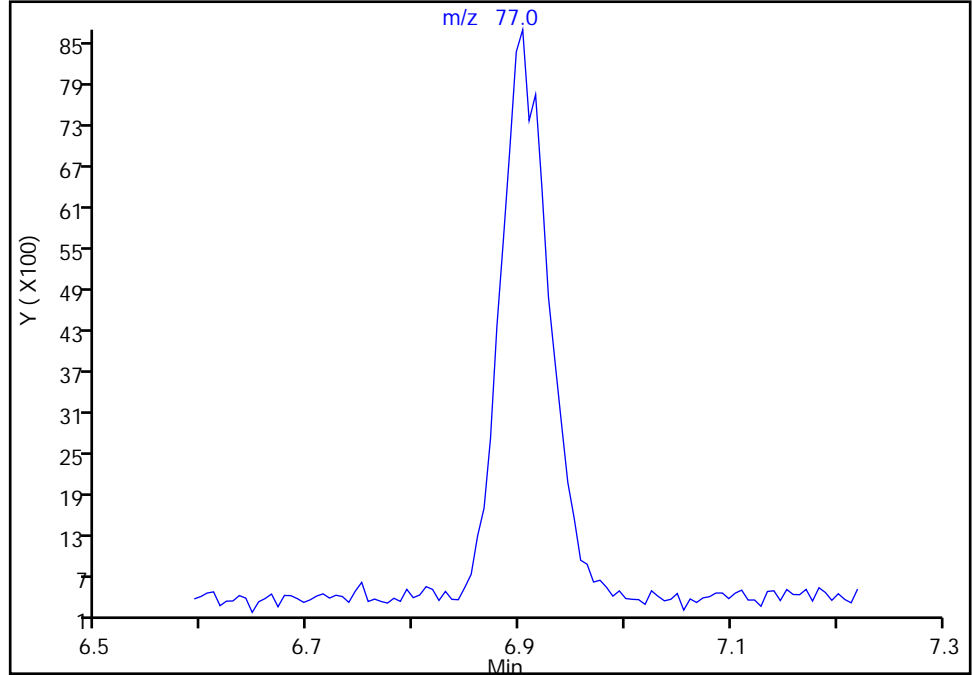
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

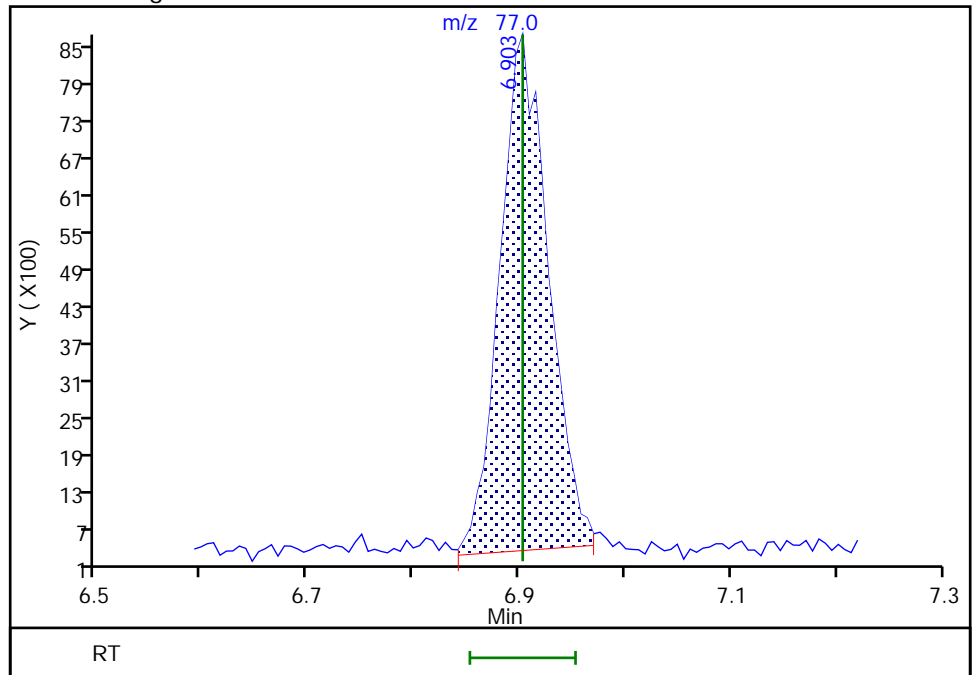
Not Detected  
Expected RT: 6.90

Processing Integration Results



Manual Integration Results

RT: 6.90  
Area: 26449  
Amount: 10.178533  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 13:56:33  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

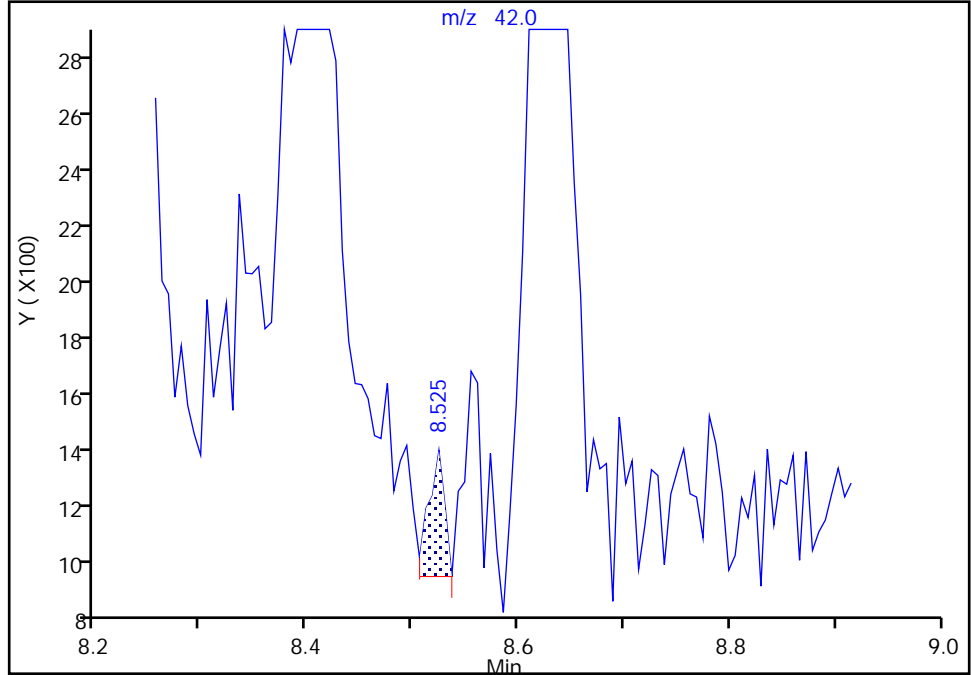
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

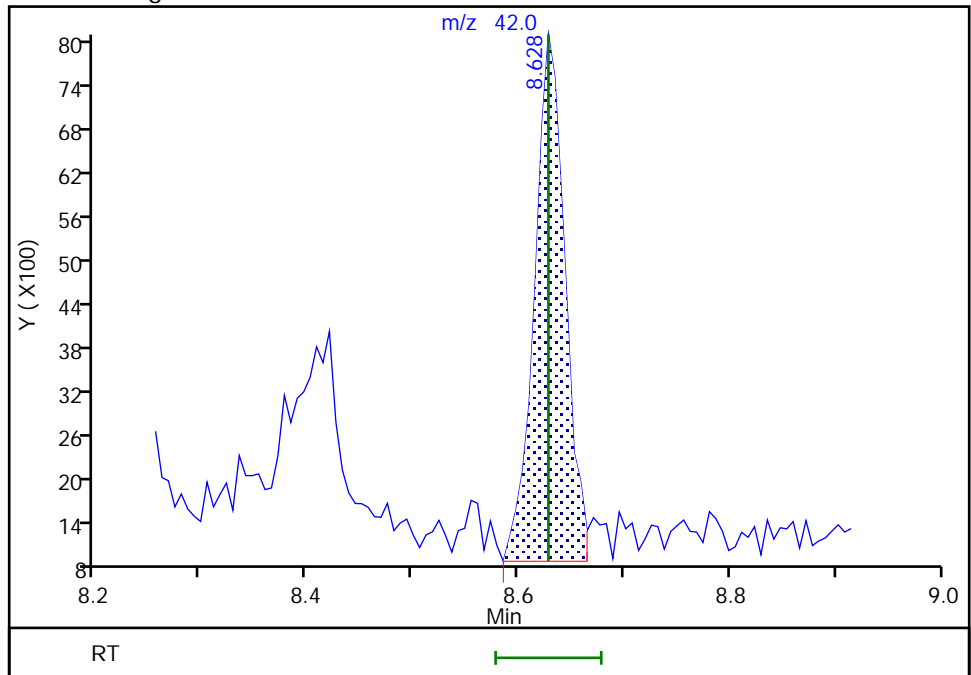
RT: 8.52  
Area: 454  
Amount: 4.988193  
Amount Units: ug/L

Processing Integration Results



RT: 8.63  
Area: 14384  
Amount: 21.718983  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:04:11  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Seattle

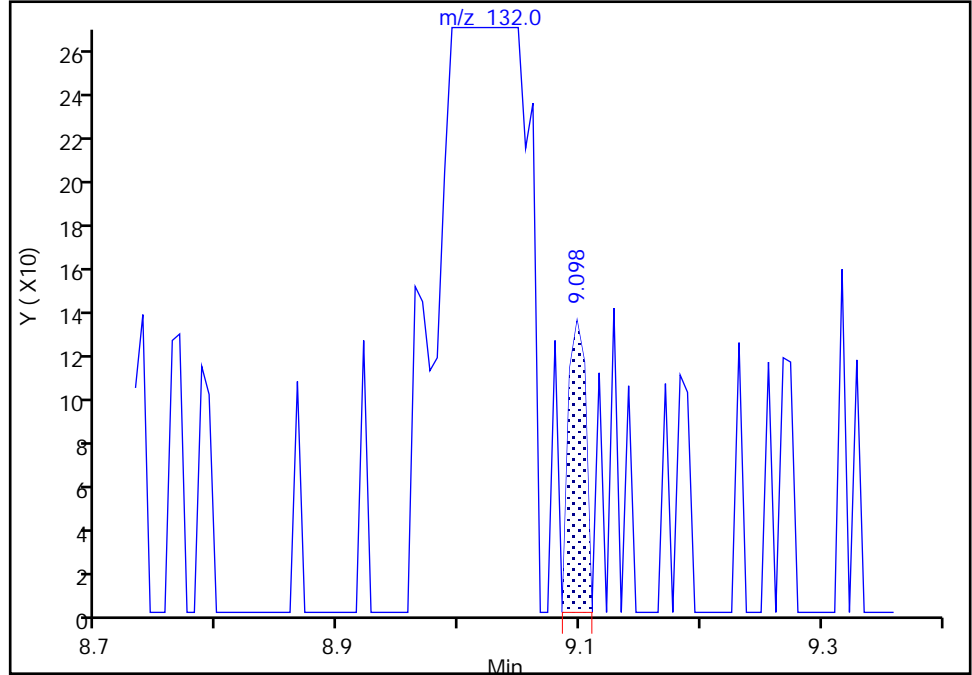
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

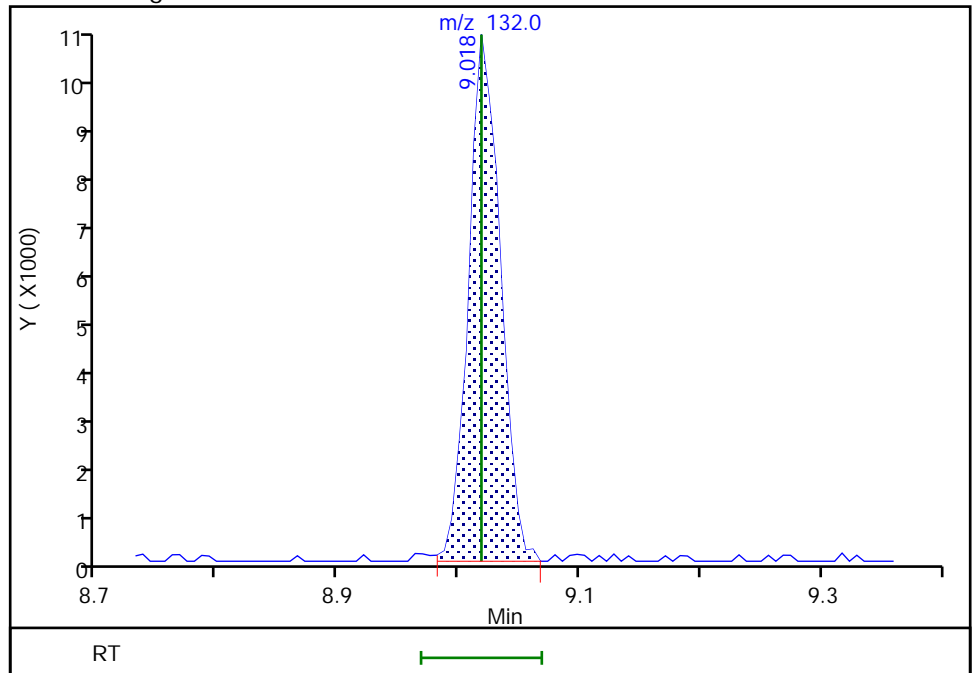
RT: 9.10  
Area: 133  
Amount: 0.144141  
Amount Units: ug/L

Processing Integration Results



RT: 9.02  
Area: 18723  
Amount: 9.795911  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

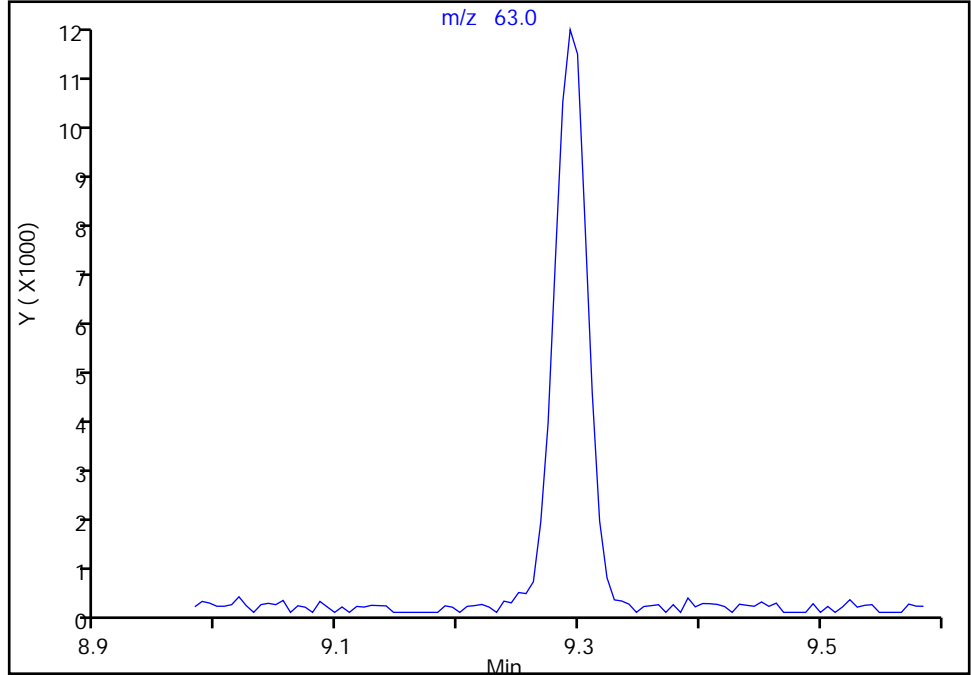
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_006.D  
Injection Date: 01-Oct-2020 18:39:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 6 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

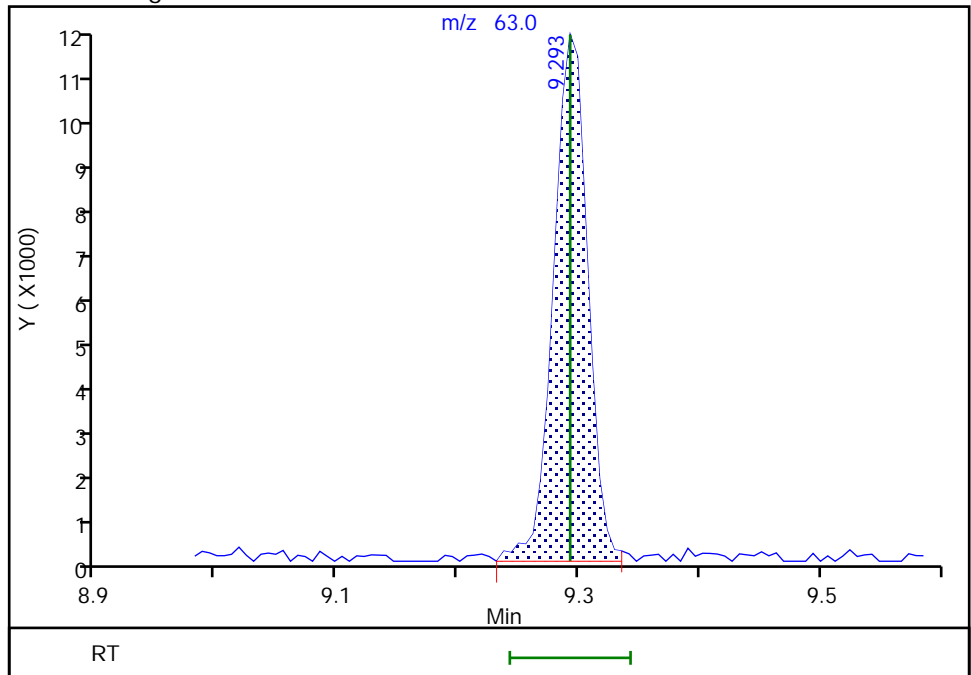
Not Detected  
Expected RT: 9.29

Processing Integration Results



RT: 9.29  
Area: 22091  
Amount: 9.847858  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_007.D  
 Lims ID: ICIS  
 Client ID:  
 Sample Type: ICIS Calib Level: 6  
 Inject. Date: 01-Oct-2020 19:04:30 ALS Bottle#: 7 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 2  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 02-Oct-2020 11:33:12 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1029

First Level Reviewer: jantanuc

Date: 02-Oct-2020 12:59:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.703	1.703	0.000	84	15661	20.0	19.0	
4 Chloromethane	50	1.928	1.928	0.000	92	52831	20.0	19.1	
5 Vinyl chloride	62	2.056	2.056	0.000	75	32605	20.0	20.1	
6 Butadiene	54	2.111	2.111	0.000	93	40370	20.0	23.4	
7 Bromomethane	94	2.465	2.465	0.000	93	17768	20.0	22.5	
8 Chloroethane	66	2.605	2.605	0.000	89	5549	20.0	22.4	M
10 Dichlorofluoromethane	67	2.916	2.916	0.000	94	50274	20.0	24.2	
14 Trichlorofluoromethane	101	2.959	2.959	0.000	77	41763	20.0	19.7	M
11 3-Chloro-1-propene	76	2.965	2.965	0.000	45	877	20.0	18.3	
17 Ethyl ether	59	3.330	3.330	0.000	96	34842	20.0	18.8	
12 Acrolein	56	3.513	3.513	0.000	95	50490	120.0	119.3	
19 1,1-Dichloroethene	96	3.696	3.696	0.000	81	20531	20.0	19.9	M
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.745	3.745	0.000	43	18086	20.0	18.2	M
16 Acetone	43	3.739	3.739	0.000	97	96024	100.0	102.7	
22 Iodomethane	142	3.885	3.885	0.000	98	37530	20.0	20.0	M
26 Carbon disulfide	76	4.019	4.019	0.000	96	79277	20.0	20.3	M
15 Isopropyl alcohol	45	4.038	4.038	0.000	96	36468	200.0	173.3	
13 Acetonitrile	40	4.202	4.202	0.000	99	27094	250.0	229.8	
24 Methyl acetate	43	4.300	4.300	0.000	98	67556	40.0	36.5	
23 Methylene Chloride	84	4.531	4.531	0.000	79	28991	20.0	20.3	
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	41114	200.0	200.0	
20 2-Methyl-2-propanol	59	4.812	4.812	0.000	95	53552	200.0	195.6	
21 Acrylonitrile	53	4.970	4.970	0.000	97	161505	200.0	198.6	
27 trans-1,2-Dichloroethene	96	5.062	5.062	0.000	79	28171	20.0	17.7	
28 Methyl tert-butyl ether	73	5.068	5.068	0.000	82	94778	20.0	20.5	
34 Hexane	57	5.641	5.641	0.000	95	78547	20.0	19.4	
30 1,1-Dichloroethane	63	5.897	5.897	0.000	84	71786	20.0	19.2	
31 Vinyl acetate	86	5.976	5.976	0.000	96	16704	50.0	46.7	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	66	92437	20.0	19.9	
35 Isopropyl ether	45	6.049	6.049	0.000	95	231657	25.0	25.3	
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	96	50779	25.0	24.1	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.909	6.909	0.000	69	50611	20.0	20.3	M
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	55	35190	20.0	19.7	
33 2-Butanone (MEK)	72	6.927	6.927	0.000	96	19499	100.0	100.6	
29 Propionitrile	54	7.007	7.007	0.000	86	78329	250.0	251.6	
38 Ethyl acetate	43	7.049	7.049	0.000	96	107142	40.0	41.1	
36 Methacrylonitrile	67	7.263	7.263	0.000	97	132166	200.0	196.2	
39 Chlorobromomethane	130	7.299	7.299	0.000	63	20456	20.0	19.3	
40 Chloroform	83	7.506	7.506	0.000	80	58486	20.0	18.3	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	91	52839	20.0	19.7	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	83	17087	10.0	10.1	
51 Cyclohexane	84	7.799	7.799	0.000	93	42569	20.0	18.6	
52 Carbon tetrachloride	117	7.927	7.927	0.000	80	48222	20.0	20.0	
50 1,1-Dichloropropene	75	7.945	7.945	0.000	77	45883	20.0	18.7	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	23618	10.0	10.3	
53 Benzene	78	8.195	8.195	0.000	91	130593	20.0	19.5	
42 Isobutyl alcohol	43	8.201	8.201	0.000	74	68427	500.0	437.9	
47 1,2-Dichloroethane	62	8.281	8.281	0.000	83	61020	20.0	19.4	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	82	117920	25.0	24.0	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	96	63501	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.634	0.000	36	24862	40.0	40.1	Ma
56 n-Heptane	43	8.634	8.634	0.000	94	92120	20.0	19.0	
61 Trichloroethene	132	9.018	9.018	0.000	87	34136	20.0	18.6	a
57 Ethyl acrylate	55	9.152	9.152	0.000	98	59775	20.0	17.0	
66 Methylcyclohexane	83	9.268	9.268	0.000	91	57205	20.0	19.1	
49 n-Butanol	56	9.262	9.262	0.000	49	23107	500.0	472.1	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	81	41075	20.0	19.1	a
59 Dibromomethane	174	9.390	9.390	0.000	33	19038	20.0	20.1	
63 Methyl methacrylate	69	9.396	9.396	0.000	83	43899	40.0	39.0	
62 Dichlorobromomethane	83	9.591	9.591	0.000	87	47121	20.0	18.8	
58 2-Nitropropane	43	9.805	9.805	0.000	99	43151	40.0	36.7	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	88	18396	20.0	19.8	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	73	56514	20.0	19.1	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	98	81788	100.0	97.3	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	64647	10.0	10.2	
74 Toluene	91	10.341	10.341	0.000	95	142578	20.0	18.3	
70 n-Butyl acetate	43	10.475	10.475	0.000	91	9748	20.0	19.2	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	85	51378	20.0	19.1	
73 Ethyl methacrylate	69	10.622	10.622	0.000	84	37727	20.0	18.6	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	89	25851	20.0	18.6	
79 Tetrachloroethene	164	10.817	10.817	0.000	84	28436	20.0	19.1	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	86	48581	20.0	19.5	
76 2-Hexanone	58	10.933	10.933	0.000	81	78781	100.0	95.6	
77 Chlorodibromomethane	129	11.079	11.079	0.000	86	35216	20.0	19.4	
78 Ethylene Dibromide	107	11.170	11.170	0.000	94	27112	20.0	19.7	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	88	50230	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	89	93737	20.0	19.3	
80 1,1,1,2-Tetrachloroethane	131	11.682	11.682	0.000	41	35344	20.0	19.0	
83 Ethylbenzene	91	11.682	11.682	0.000	97	157110	20.0	19.9	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	122258	20.0	17.3	
88 o-Xylene	91	12.115	12.115	0.000	95	129096	20.0	20.0	
86 Styrene	104	12.127	12.127	0.000	87	88077	20.0	18.7	
85 Bromoform	173	12.286	12.286	0.000	91	21653	20.0	19.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
91 Isopropylbenzene	105	12.414	12.414	0.000	97	150415	20.0	18.8	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	84	18738	10.0	10.3	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	84	30727	20.0	19.1	
93 Bromobenzene	156	12.682	12.682	0.000	90	34634	20.0	18.8	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	54	16194	20.0	19.2	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	37	9971	20.0	19.1	
94 N-Propylbenzene	91	12.749	12.749	0.000	88	171730	20.0	18.8	
95 2-Chlorotoluene	126	12.835	12.835	0.000	94	33263	20.0	18.1	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	95	124032	20.0	18.8	
96 4-Chlorotoluene	126	12.926	12.926	0.000	82	33650	20.0	17.6	
98 tert-Butylbenzene	119	13.152	13.152	0.000	94	117144	20.0	19.4	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	37	123105	20.0	18.7	
100 sec-Butylbenzene	105	13.322	13.322	0.000	96	160882	20.0	18.9	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	90	61393	20.0	18.4	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	97	133137	20.0	18.9	
* 103 1,4-Dichlorobenzene-d4	152	13.487	13.487	0.000	48	21564	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	89	59851	20.0	17.9	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	95	128761	20.0	18.4	
101 Benzyl chloride	126	13.591	13.591	0.000	98	13385	20.0	18.7	
108 n-Butylbenzene	134	13.761	13.761	0.000	98	30215	20.0	17.3	
107 1,2-Dichlorobenzene	146	13.792	13.792	0.000	89	59934	20.0	18.8	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.401	0.000	61	6667	20.0	19.4	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	93	42599	20.0	17.3	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	92	37625	20.0	18.1	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	92	23959	20.0	18.8	
112 Naphthalene	128	15.249	15.249	0.000	97	99523	20.0	17.6	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	93	38657	20.0	18.0	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 2.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_007.D

Injection Date: 01-Oct-2020 19:04:30

Instrument ID: TAC119

Lims ID: ICIS

Client ID:

Operator ID: cjb

ALS Bottle#: 7

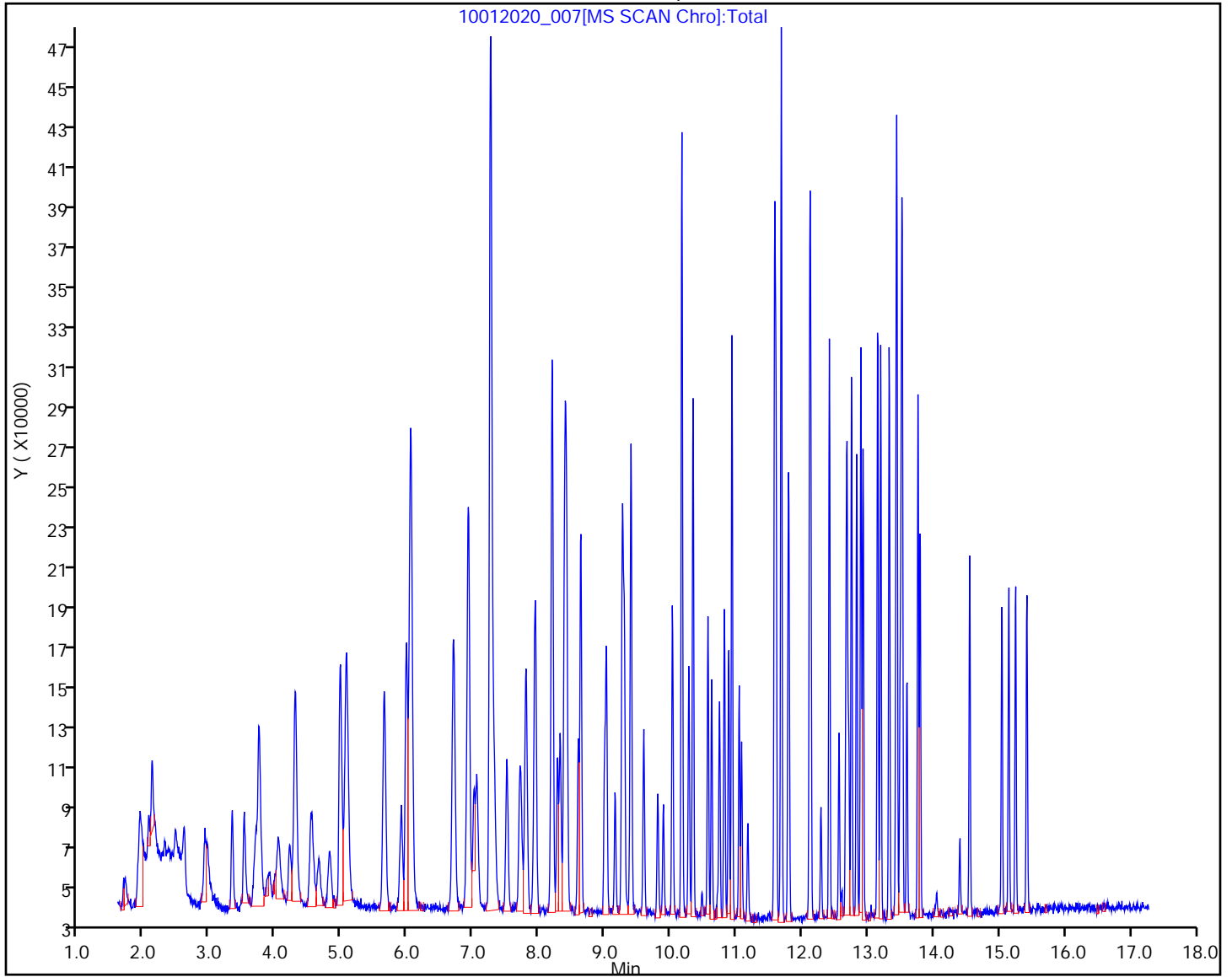
Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

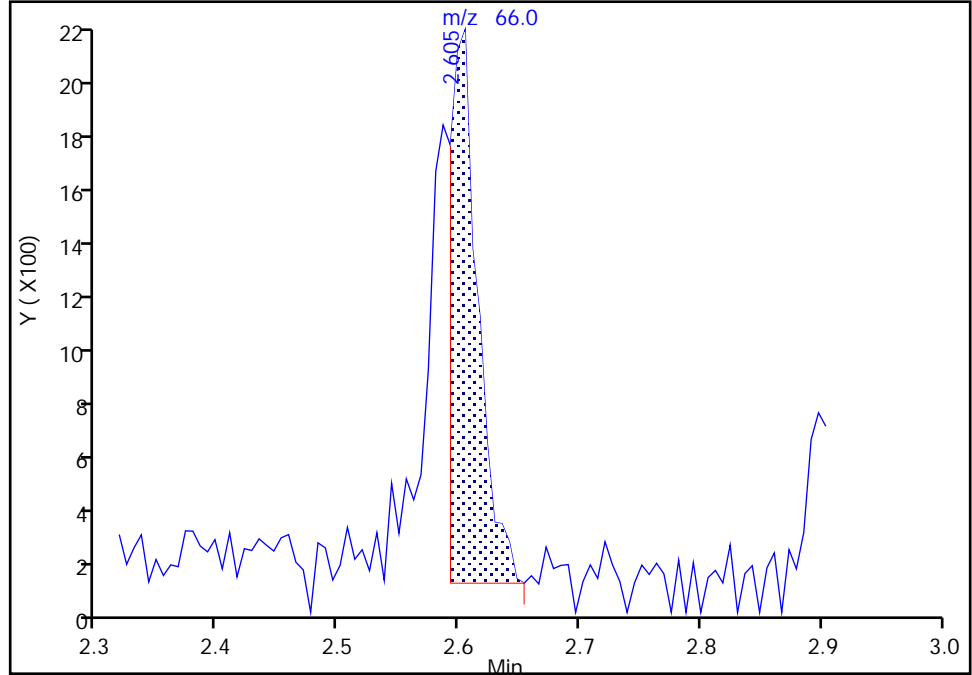
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Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Signal: 1

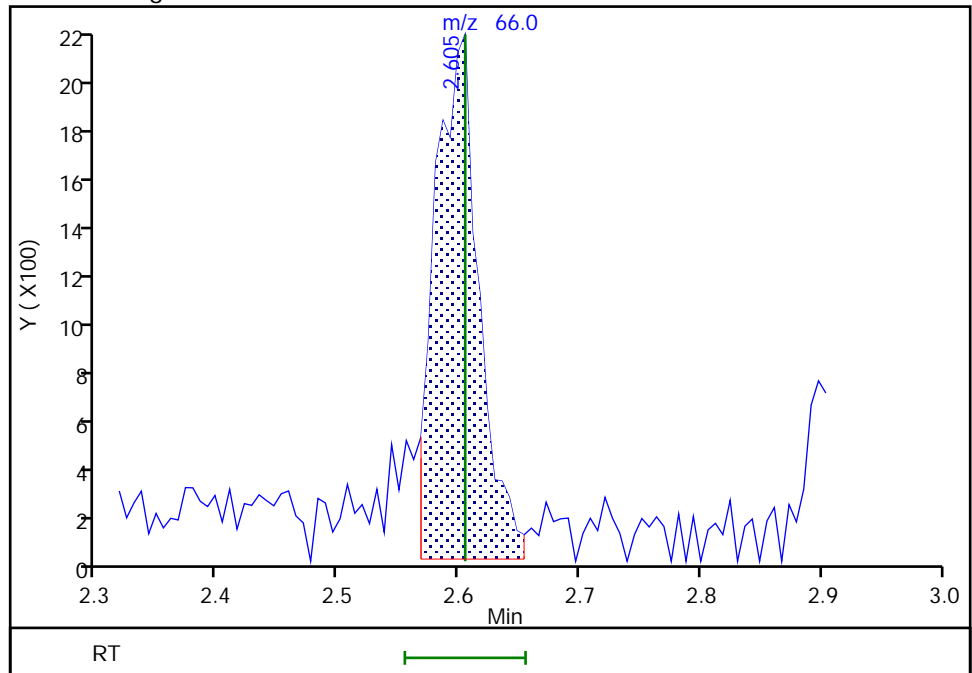
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Area: 3351  
Amount: 15.318005  
Amount Units: ug/L

Processing Integration Results



RT: 2.60  
Area: 5549  
Amount: 22.361369  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 12:55:20  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

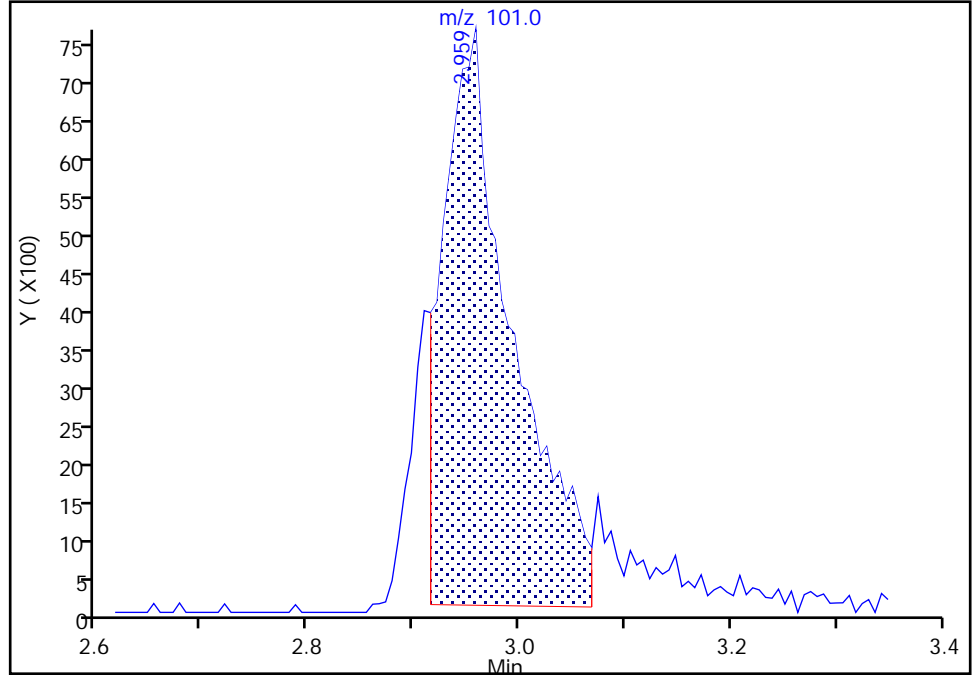
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Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

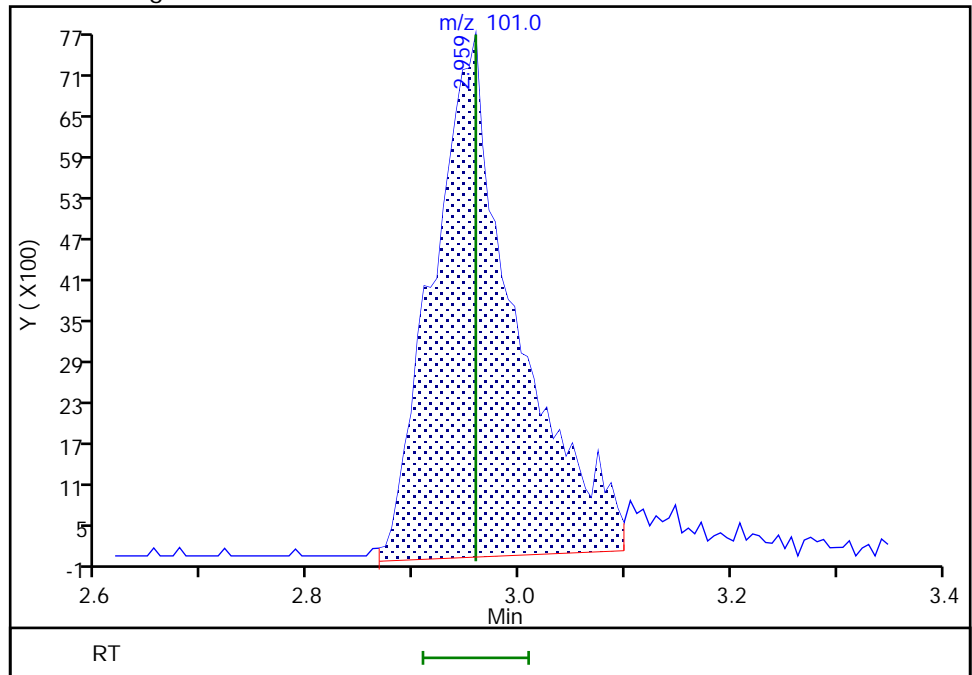
RT: 2.96  
Area: 34660  
Amount: 30.445578  
Amount Units: ug/L

Processing Integration Results



RT: 2.96  
Area: 41763  
Amount: 19.717300  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 12:55:32  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

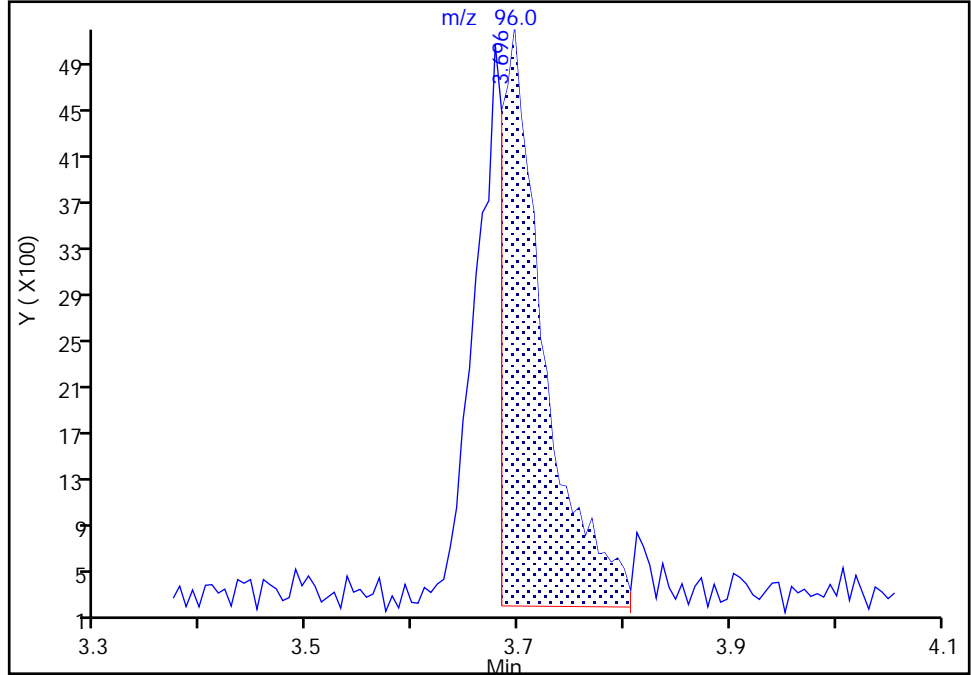
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Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

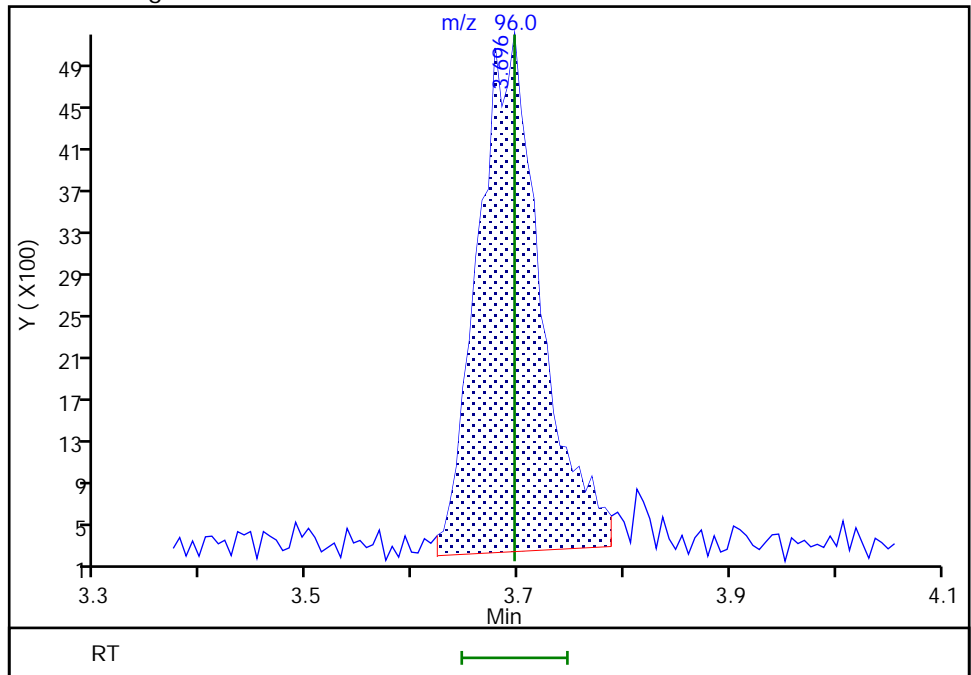
RT: 3.70  
Area: 13968  
Amount: 25.727670  
Amount Units: ug/L

Processing Integration Results



RT: 3.70  
Area: 20531  
Amount: 19.913968  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 12:55:44  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

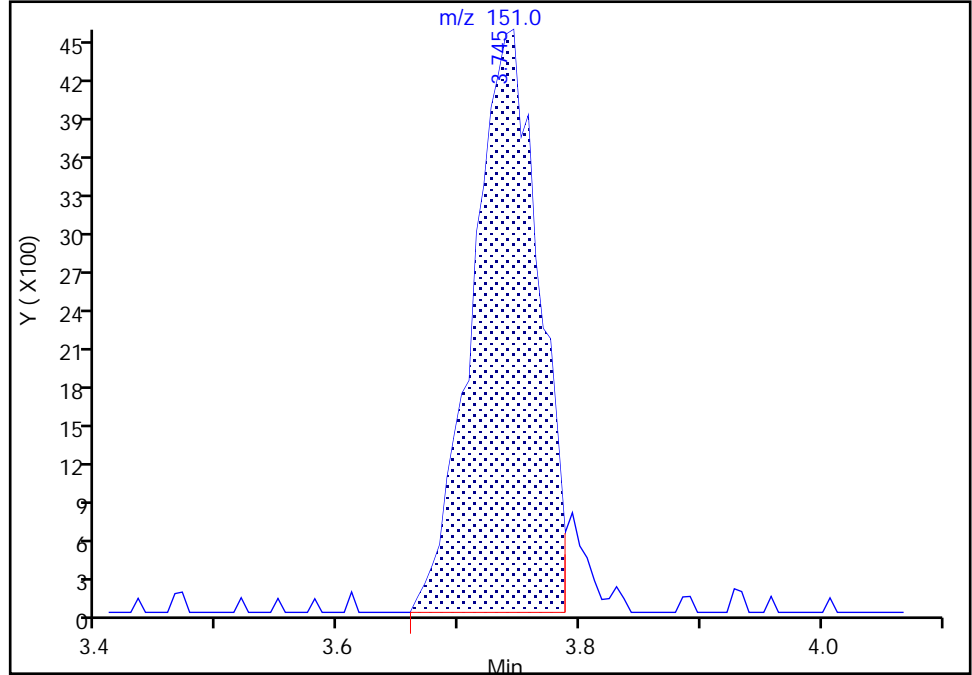
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Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

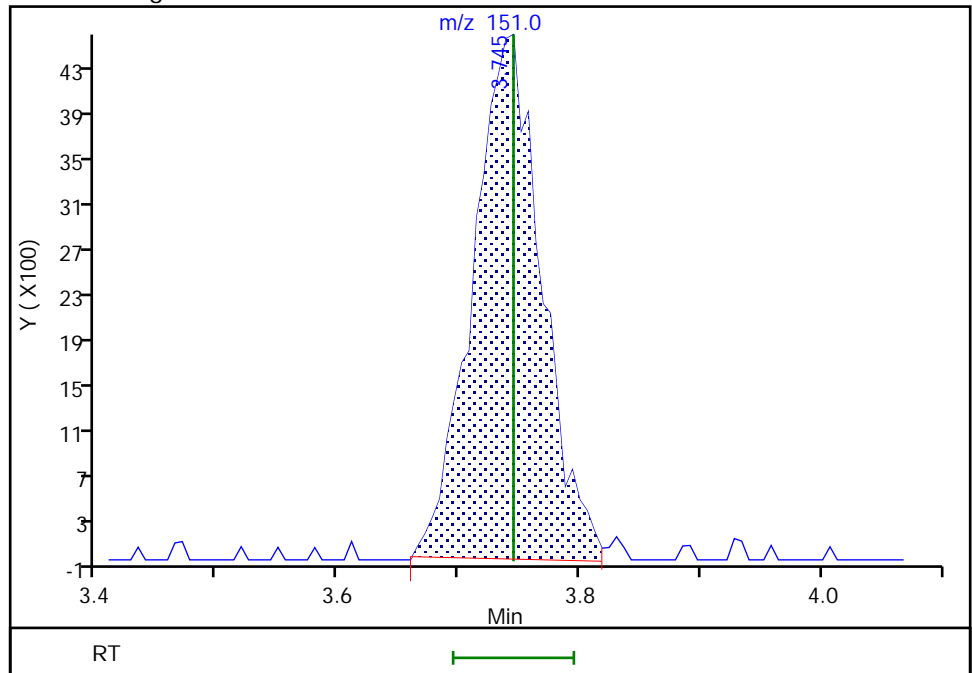
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Amount: 29.983343  
Amount Units: ug/L

Processing Integration Results



RT: 3.74  
Area: 18086  
Amount: 18.239442  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 12:55:53  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

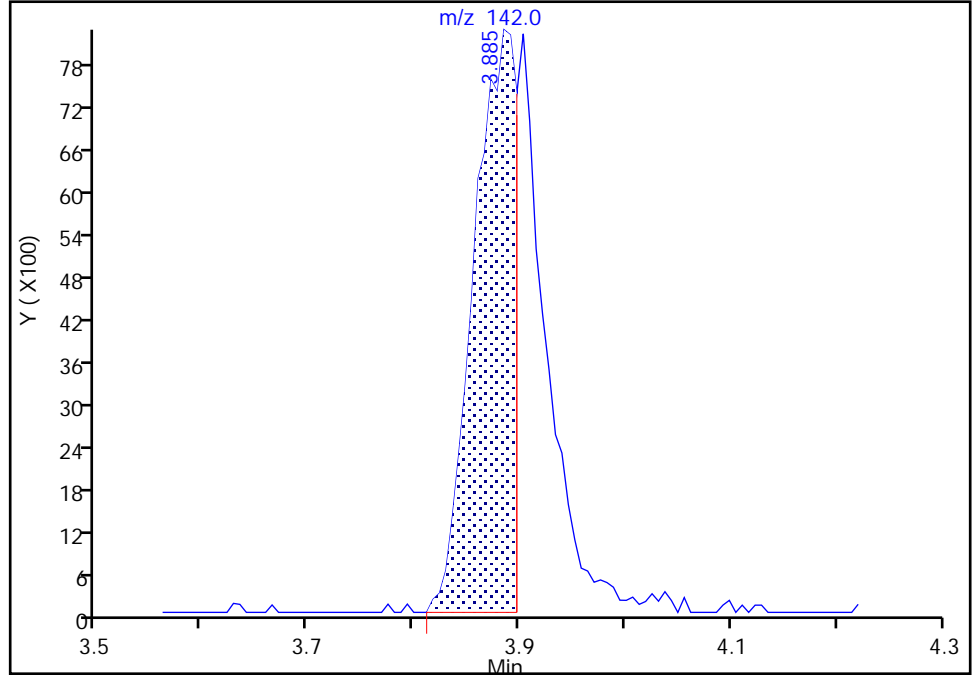
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Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

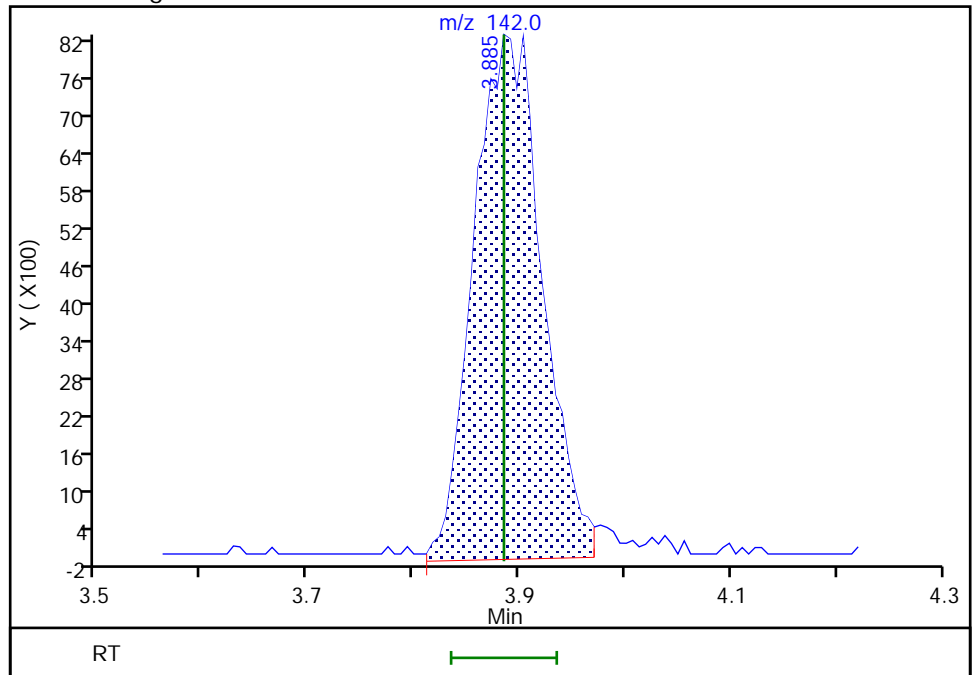
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Amount: 24.131122  
Amount Units: ug/L

Processing Integration Results



RT: 3.89  
Area: 37530  
Amount: 19.991457  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 12:55:57  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

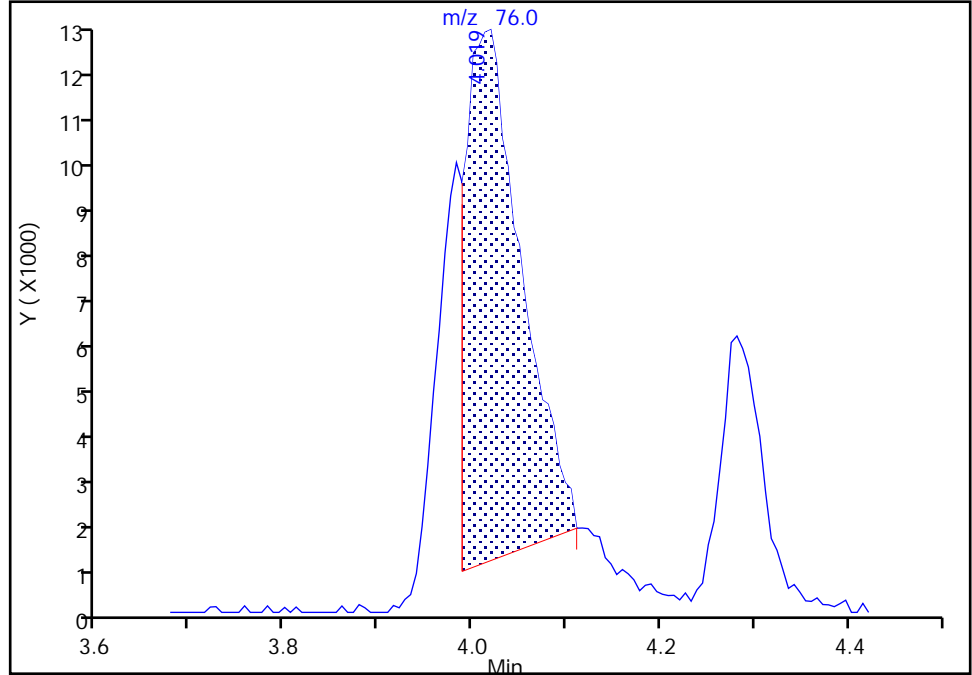
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Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

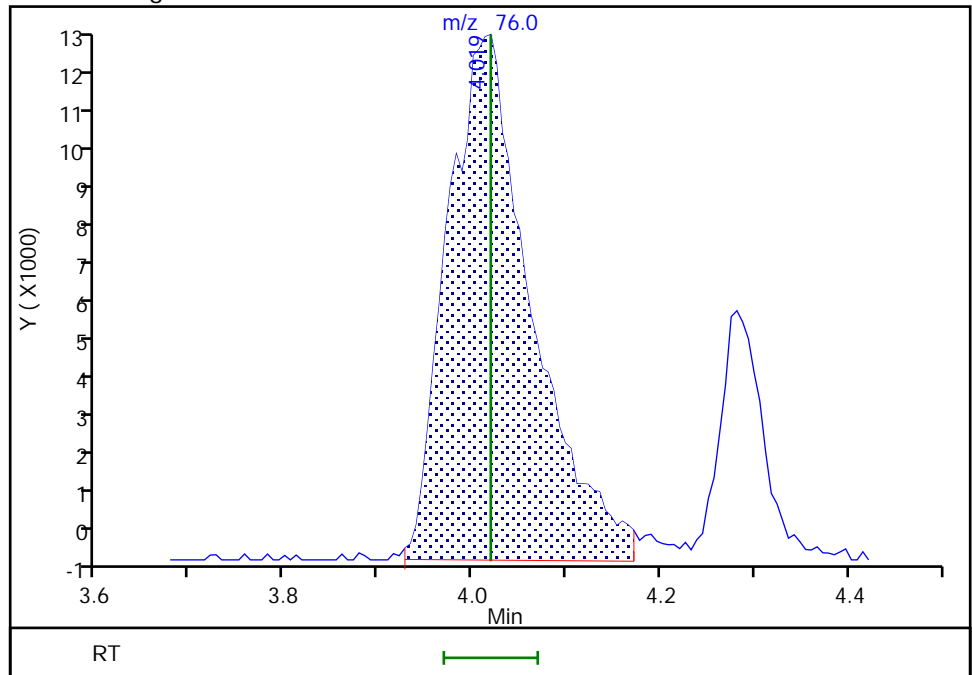
RT: 4.02  
Area: 47891  
Amount: 20.422340  
Amount Units: ug/L

Processing Integration Results



RT: 4.02  
Area: 79277  
Amount: 20.316807  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 12:56:01  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

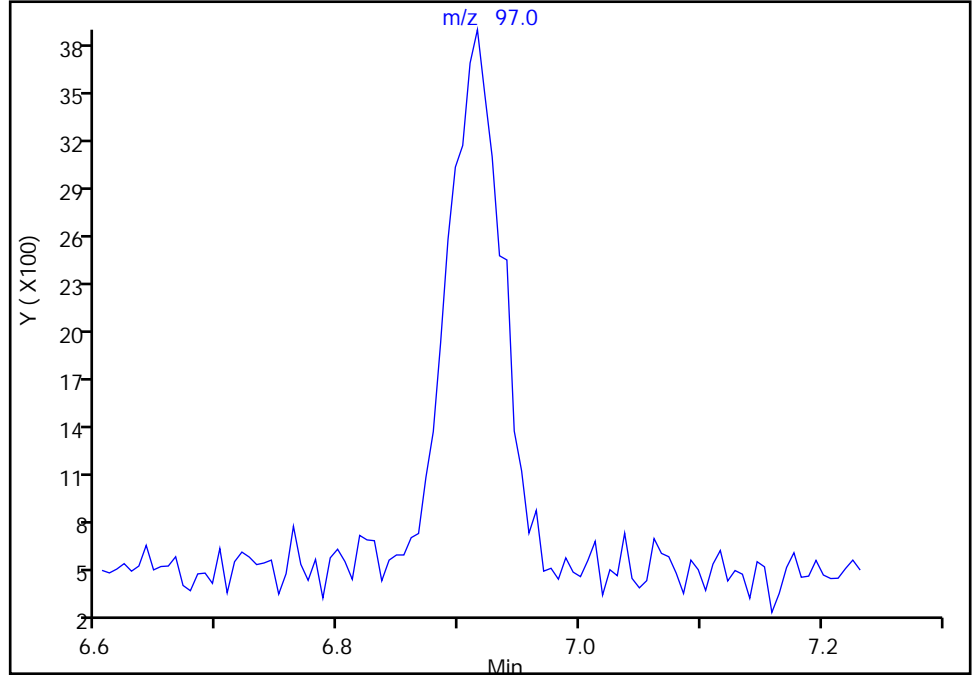
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Injection Date: 01-Oct-2020 19:04:30 Instrument ID: TAC119  
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Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 2

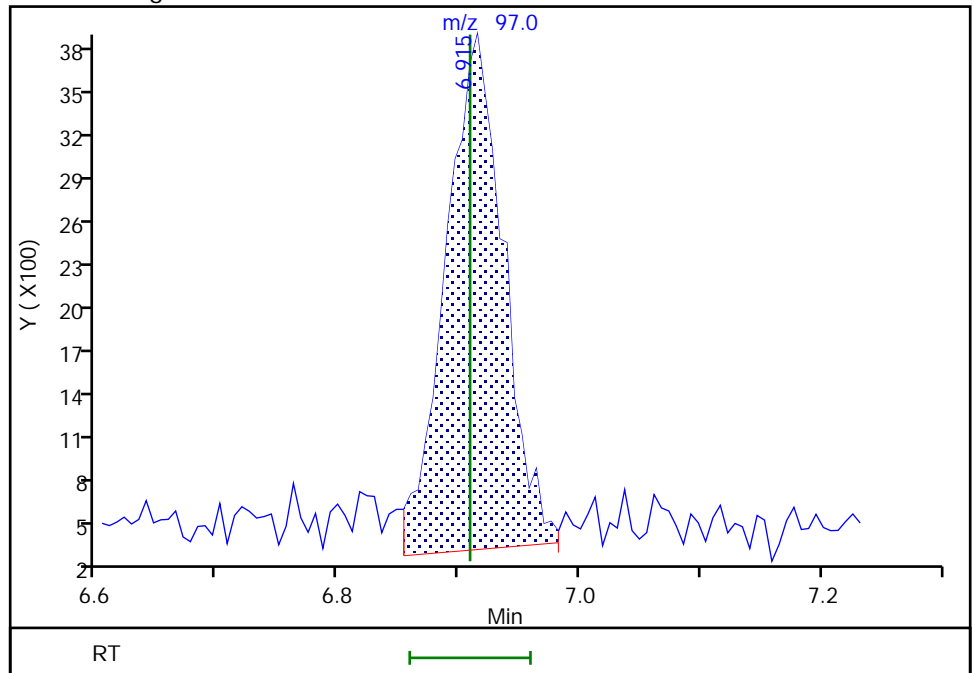
Not Detected  
Expected RT: 6.91

Processing Integration Results



Manual Integration Results

RT: 6.92  
Area: 11921  
Amount: 20.284229  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 12:56:21  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

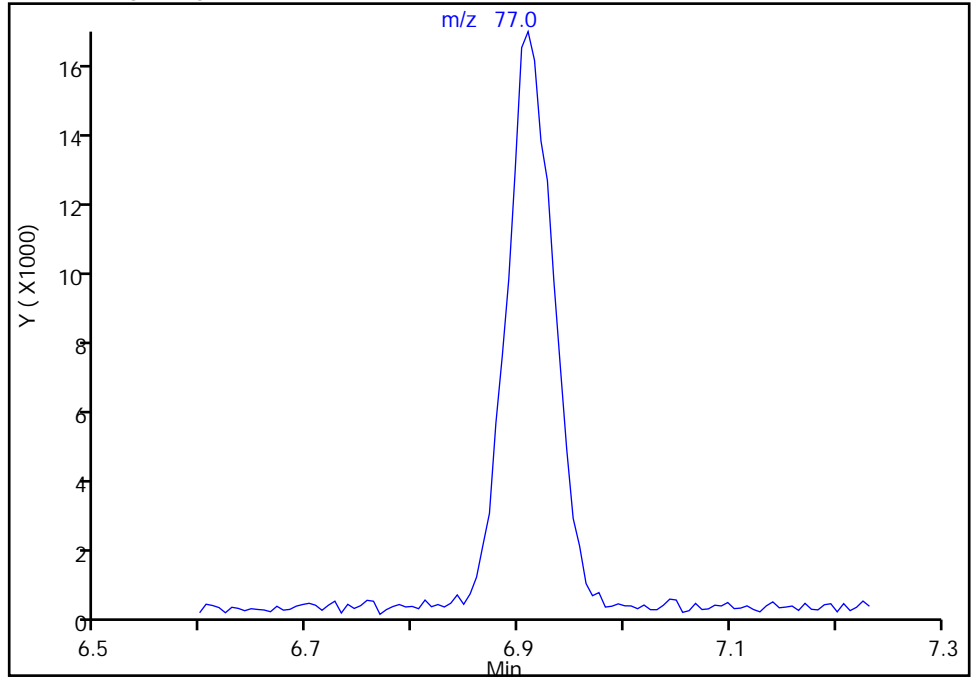
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Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

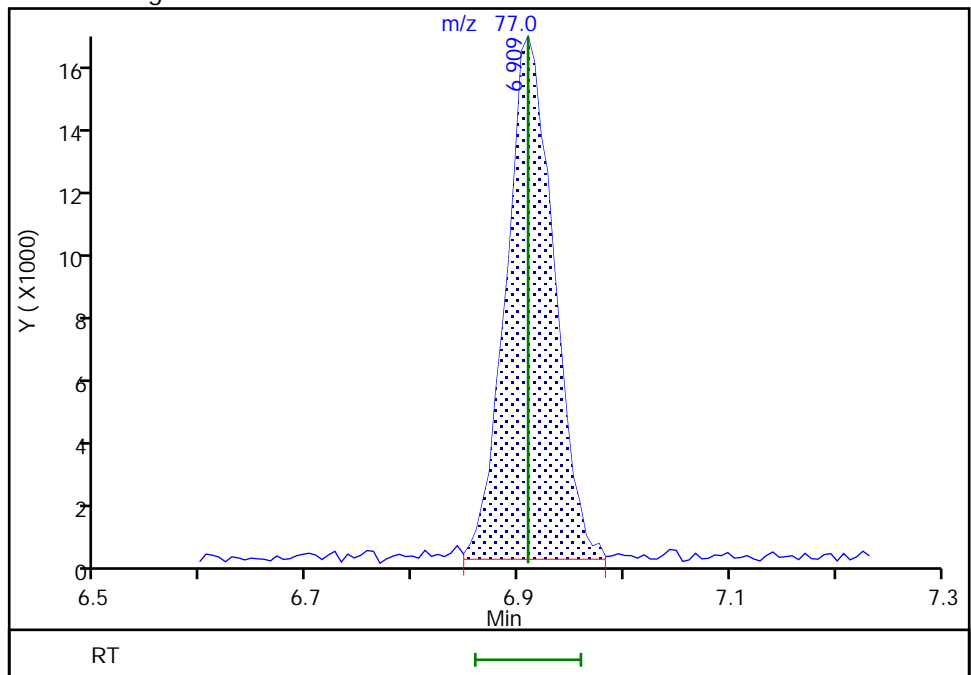
Not Detected  
Expected RT: 6.91

Processing Integration Results



Manual Integration Results

RT: 6.91  
Area: 50611  
Amount: 20.284229  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 12:56:27

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

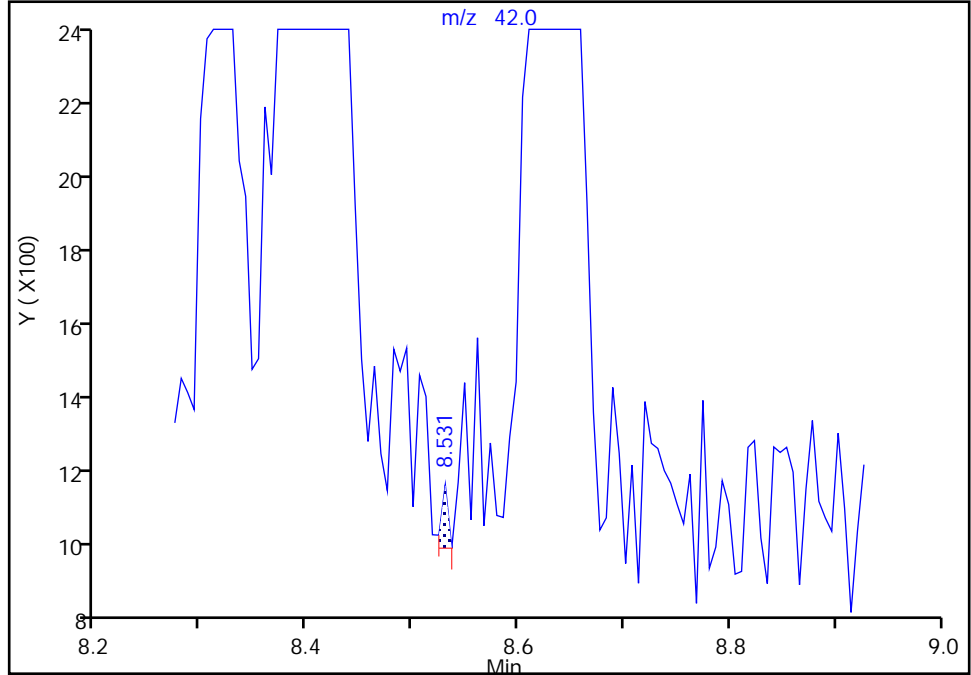
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_007.D  
Injection Date: 01-Oct-2020 19:04:30 Instrument ID: TAC119  
Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

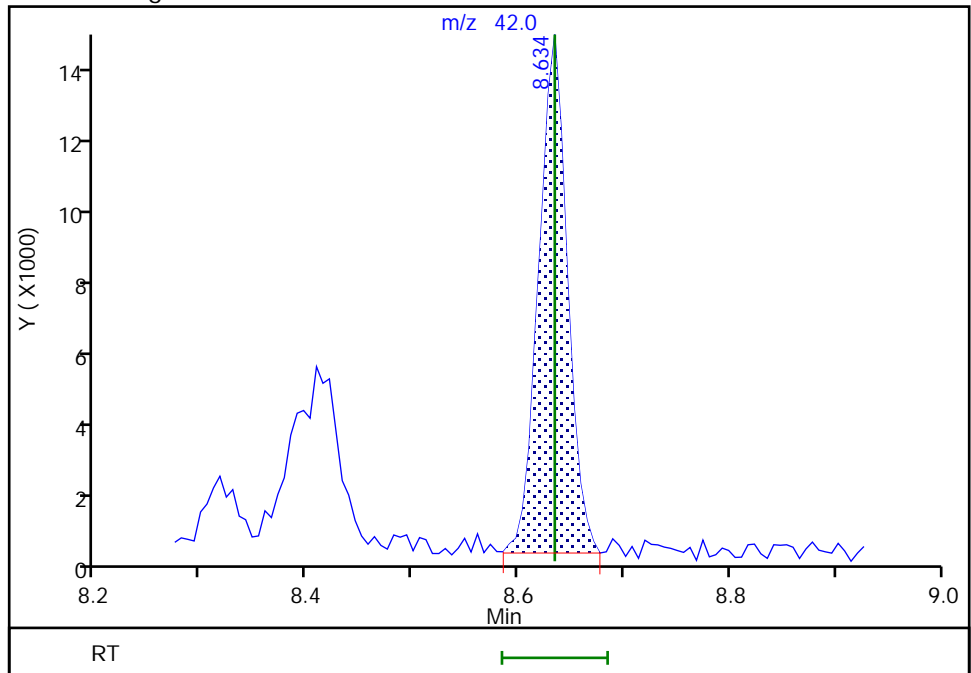
RT: 8.53  
Area: 71  
Amount: 1.114260  
Amount Units: ug/L

Processing Integration Results



RT: 8.63  
Area: 24862  
Amount: 40.149842  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:00:35  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Seattle

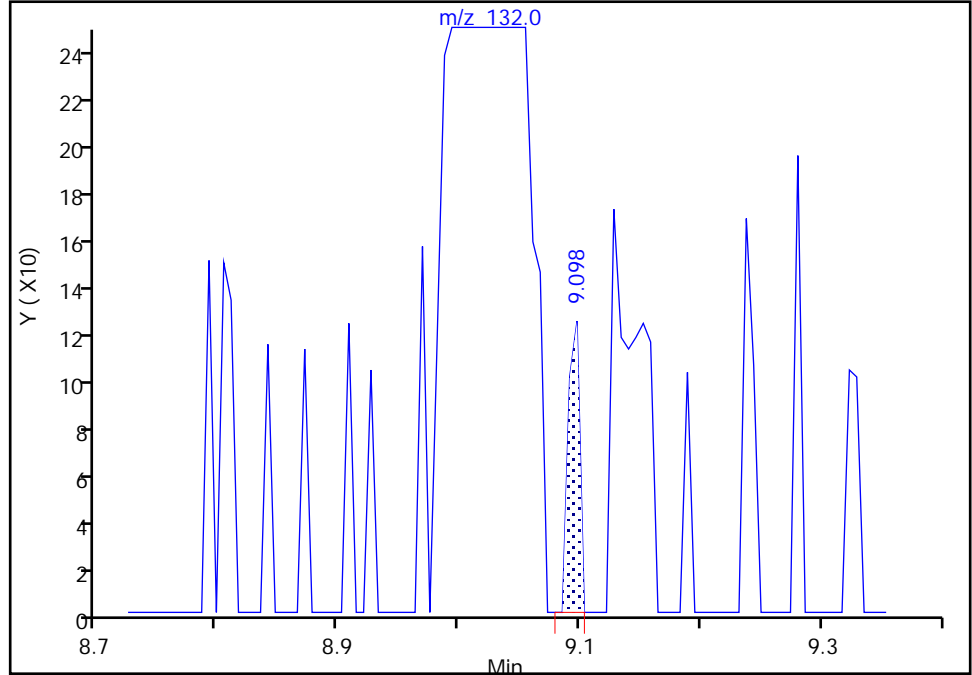
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Injection Date: 01-Oct-2020 19:04:30 Instrument ID: TAC119  
Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

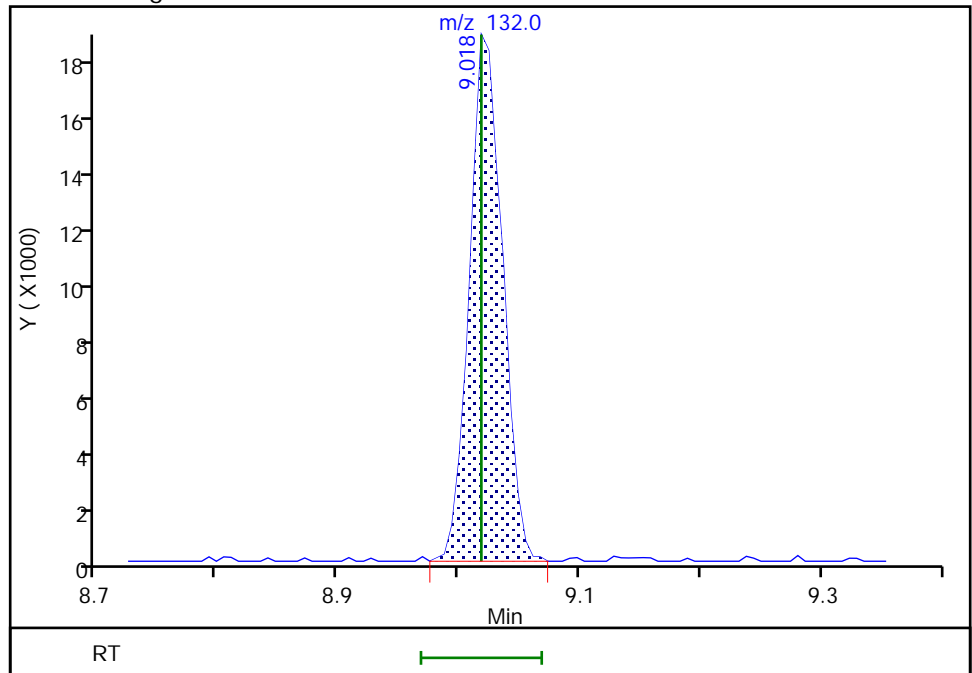
RT: 9.10  
Area: 83  
Amount: 1.247074  
Amount Units: ug/L

Processing Integration Results



RT: 9.02  
Area: 34136  
Amount: 18.600289  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

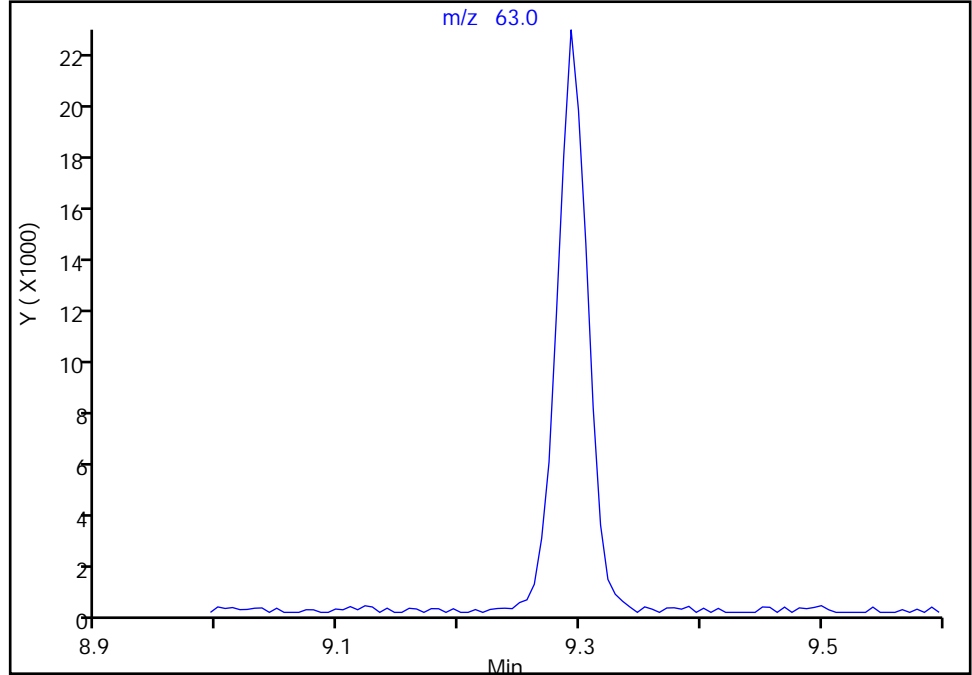
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Injection Date: 01-Oct-2020 19:04:30 Instrument ID: TAC119  
Lims ID: ICIS  
Client ID:  
Operator ID: cjb ALS Bottle#: 7 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

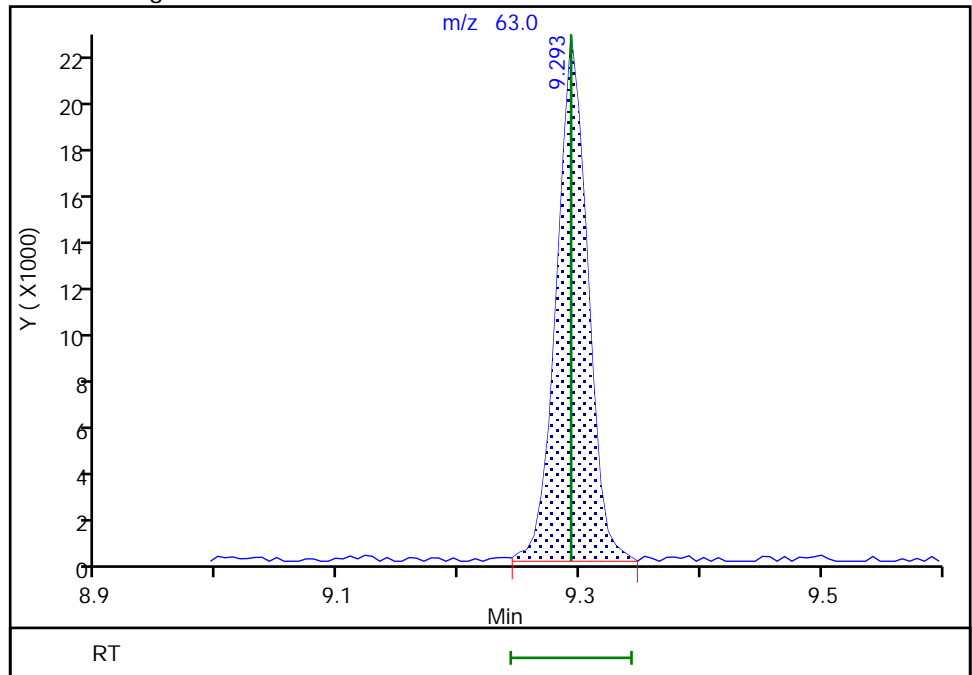
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 41075  
Amount: 19.069603  
Amount Units: ug/L



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_008.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 01-Oct-2020 19:30:30 ALS Bottle#: 8 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 5  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 02-Oct-2020 11:33:24 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1029

First Level Reviewer: jantanuc Date: 02-Oct-2020 13:02:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.703	1.703	0.000	85	42473	50.0	45.6	
4 Chloromethane	50	1.916	1.916	0.000	92	136383	50.0	45.3	
5 Vinyl chloride	62	2.056	2.056	0.000	81	82996	50.0	47.5	M
6 Butadiene	54	2.105	2.105	0.000	97	94420	50.0	50.2	M
7 Bromomethane	94	2.465	2.465	0.000	93	41059	50.0	47.3	
8 Chloroethane	66	2.593	2.593	0.000	88	13426	50.0	50.5	
10 Dichlorofluoromethane	67	2.910	2.910	0.000	93	121992	50.0	54.0	
14 Trichlorofluoromethane	101	2.946	2.946	0.000	83	102707	50.0	44.5	M
11 3-Chloro-1-propene	76	2.965	2.965	0.000	73	2222	50.0	45.0	
17 Ethyl ether	59	3.324	3.324	0.000	96	90829	50.0	45.1	
12 Acrolein	56	3.501	3.501	0.000	89	134919	300.0	292.8	
19 1,1-Dichloroethene	96	3.678	3.678	0.000	88	50482	50.0	45.0	M
16 Acetone	43	3.727	3.727	0.000	97	232724	250.0	228.7	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.739	3.739	0.000	39	46532	50.0	43.1	
22 Iodomethane	142	3.879	3.879	0.000	97	92987	50.0	45.5	M
26 Carbon disulfide	76	4.007	4.007	0.000	96	189832	50.0	44.7	
15 Isopropyl alcohol	45	4.032	4.032	0.000	98	93975	500.0	472.3	
S 2 Xylenes, Total	100				0			93.7	
13 Acetonitrile	40	4.196	4.196	0.000	99	77541	625.0	604.1	
24 Methyl acetate	43	4.294	4.294	0.000	98	179692	100.0	91.0	
23 Methylene Chloride	84	4.525	4.525	0.000	83	70908	50.0	50.0	
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	38878	200.0	200.0	
20 2-Methyl-2-propanol	59	4.806	4.806	0.000	97	139494	500.0	468.1	
21 Acrylonitrile	53	4.964	4.964	0.000	97	427677	500.0	479.2	
27 trans-1,2-Dichloroethene	96	5.062	5.062	0.000	73	75468	50.0	43.5	
28 Methyl tert-butyl ether	73	5.074	5.074	0.000	88	241863	50.0	48.0	
34 Hexane	57	5.641	5.641	0.000	94	197690	50.0	47.5	
30 1,1-Dichloroethane	63	5.897	5.897	0.000	86	185756	50.0	45.7	
31 Vinyl acetate	86	5.976	5.976	0.000	97	43416	125.0	111.6	
32 2-Chloro-1,3-butadiene	53	6.031	6.031	0.000	66	241228	50.0	47.6	
35 Isopropyl ether	45	6.050	6.050	0.000	93	609405	62.5	61.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	95	134160	62.5	58.4	
43 2,2-Dichloropropane	77	6.909	6.909	0.000	64	128368	50.0	47.3	
37 cis-1,2-Dichloroethene	96	6.921	6.921	0.000	69	90084	50.0	46.2	
33 2-Butanone (MEK)	72	6.921	6.921	0.000	95	50139	250.0	237.7	
29 Propionitrile	54	7.007	7.007	0.000	82	210309	625.0	620.6	
38 Ethyl acetate	43	7.049	7.049	0.000	98	267756	100.0	94.4	
36 Methacrylonitrile	67	7.257	7.257	0.000	97	341995	500.0	466.5	
39 Chlorobromomethane	130	7.305	7.305	0.000	72	52137	50.0	45.1	
40 Chloroform	83	7.507	7.507	0.000	80	151596	50.0	43.6	
48 1,1,1-Trichloroethane	97	7.702	7.702	0.000	92	135902	50.0	46.5	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	62	18066	10.0	9.82	
51 Cyclohexane	84	7.799	7.799	0.000	95	110544	50.0	44.3	
52 Carbon tetrachloride	117	7.927	7.927	0.000	78	124170	50.0	47.6	
50 1,1-Dichloropropene	75	7.939	7.939	0.000	74	118975	50.0	44.6	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	24931	10.0	9.95	
53 Benzene	78	8.195	8.195	0.000	91	339514	50.0	46.5	
42 Isobutyl alcohol	43	8.202	8.202	0.000	71	176066	1250.0	1191.6	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	79	158930	50.0	46.4	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	81	316882	62.5	59.2	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	96	69118	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.634	0.000	40	64067	100.0	96.9	a
56 n-Heptane	43	8.634	8.634	0.000	95	241590	50.0	45.8	
61 Trichloroethene	132	9.025	9.025	0.000	92	87241	50.0	43.7	a
57 Ethyl acrylate	55	9.153	9.153	0.000	98	163376	50.0	42.8	
49 n-Butanol	56	9.262	9.262	0.000	50	58148	1250.0	1091.5	
66 Methylcyclohexane	83	9.268	9.268	0.000	91	146816	50.0	45.0	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	79	109062	50.0	46.5	a
59 Dibromomethane	174	9.384	9.384	0.000	47	49490	50.0	48.0	
63 Methyl methacrylate	69	9.396	9.396	0.000	85	113479	100.0	92.6	
62 Dichlorobromomethane	83	9.592	9.592	0.000	88	125082	50.0	45.9	
58 2-Nitropropane	43	9.805	9.805	0.000	99	108467	100.0	84.8	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	86	47423	50.0	48.4	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	73	147201	50.0	46.7	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	98	215600	250.0	240.5	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	95	65635	10.0	9.74	
74 Toluene	91	10.341	10.341	0.000	96	375596	50.0	45.2	
70 n-Butyl acetate	43	10.475	10.475	0.000	88	24322	50.0	46.7	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	83	137570	50.0	47.8	
73 Ethyl methacrylate	69	10.622	10.622	0.000	72	101762	50.0	46.9	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	95	72051	50.0	49.1	
79 Tetrachloroethene	164	10.817	10.817	0.000	84	76458	50.0	48.9	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	86	127259	50.0	47.8	
76 2-Hexanone	58	10.933	10.933	0.000	81	210422	250.0	239.3	
77 Chlorodibromomethane	129	11.079	11.079	0.000	86	93511	50.0	48.2	
78 Ethylene Dibromide	107	11.177	11.177	0.000	97	70892	50.0	48.5	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	57	53607	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	90	251452	50.0	48.4	
80 1,1,1,2-Tetrachloroethane	131	11.676	11.676	0.000	47	95898	50.0	48.2	
83 Ethylbenzene	91	11.683	11.683	0.000	98	416988	50.0	50.0	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	333938	50.0	44.2	
88 o-Xylene	91	12.115	12.115	0.000	94	336675	50.0	49.4	
86 Styrene	104	12.128	12.128	0.000	87	240307	50.0	47.8	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	94	57564	50.0	49.7	
91 Isopropylbenzene	105	12.414	12.414	0.000	97	398978	50.0	46.8	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	83	19692	10.0	10.2	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	88	82608	50.0	49.5	
93 Bromobenzene	156	12.682	12.682	0.000	89	94916	50.0	48.9	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	55	41491	50.0	47.6	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	41	25734	50.0	46.8	
94 N-Propylbenzene	91	12.749	12.749	0.000	89	459170	50.0	47.9	
95 2-Chlorotoluene	126	12.829	12.829	0.000	94	93463	50.0	48.4	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	95	332009	50.0	47.9	
96 4-Chlorotoluene	126	12.926	12.926	0.000	90	92410	50.0	46.0	
98 tert-Butylbenzene	119	13.146	13.146	0.000	95	308689	50.0	48.5	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	68	330237	50.0	47.7	
100 sec-Butylbenzene	105	13.322	13.322	0.000	96	438089	50.0	48.9	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	88	171197	50.0	48.7	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	97	362964	50.0	48.9	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	19	22688	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	90	170924	50.0	48.6	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	98	346912	50.0	47.2	
101 Benzyl chloride	126	13.597	13.597	0.000	99	35474	50.0	47.1	
108 n-Butylbenzene	134	13.761	13.761	0.000	98	83981	50.0	45.7	
107 1,2-Dichlorobenzene	146	13.792	13.792	0.000	92	165657	50.0	49.3	
109 1,2-Dibromo-3-Chloropropane	157	14.402	14.402	0.000	71	17182	50.0	47.5	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	94	118468	50.0	45.8	
111 1,2,4-Trichlorobenzene	180	15.036	15.036	0.000	92	105991	50.0	48.4	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	96	65770	50.0	49.0	
112 Naphthalene	128	15.249	15.249	0.000	97	269695	50.0	45.2	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	94	106127	50.0	47.1	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 5.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_008.D

Injection Date: 01-Oct-2020 19:30:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 8

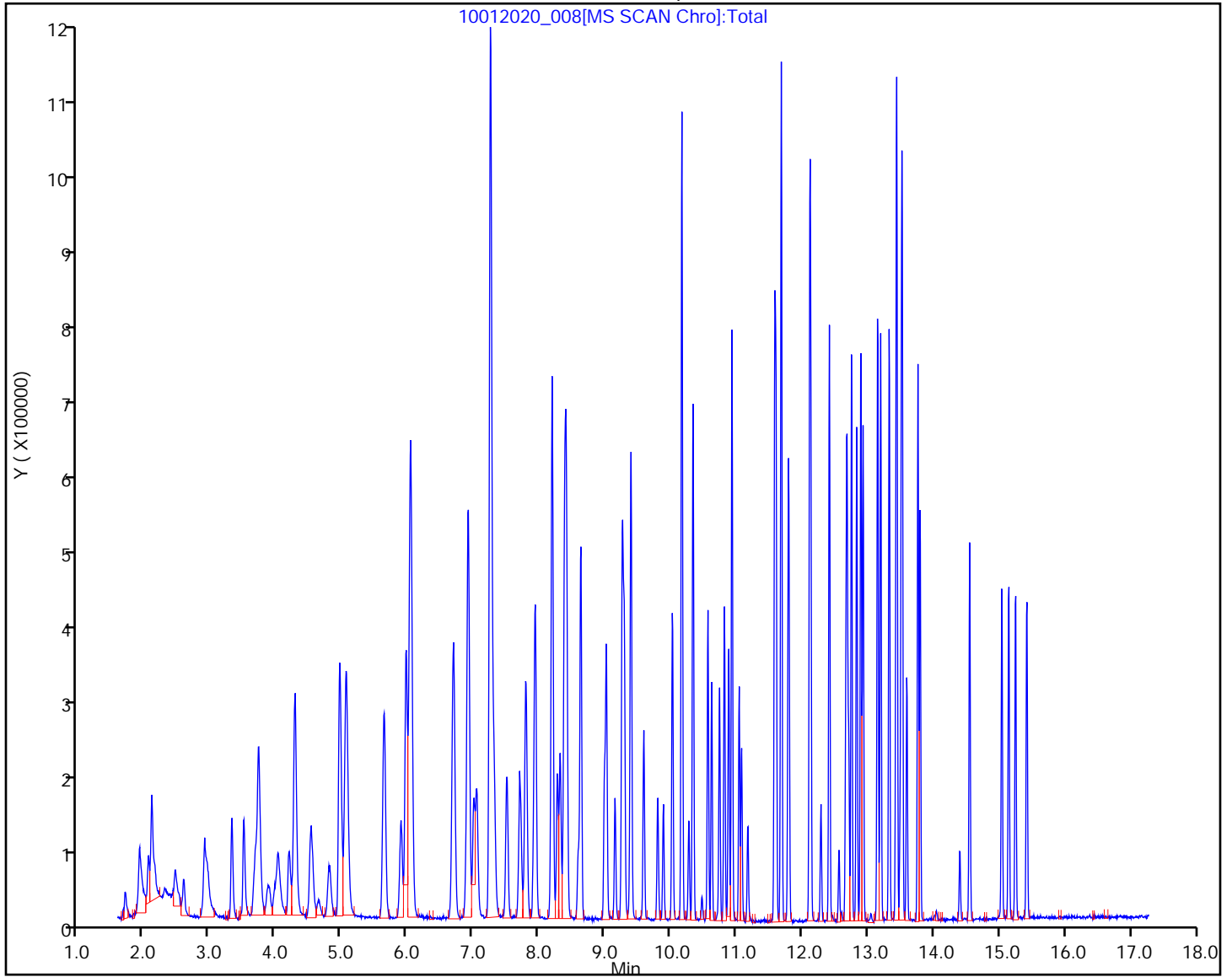
Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

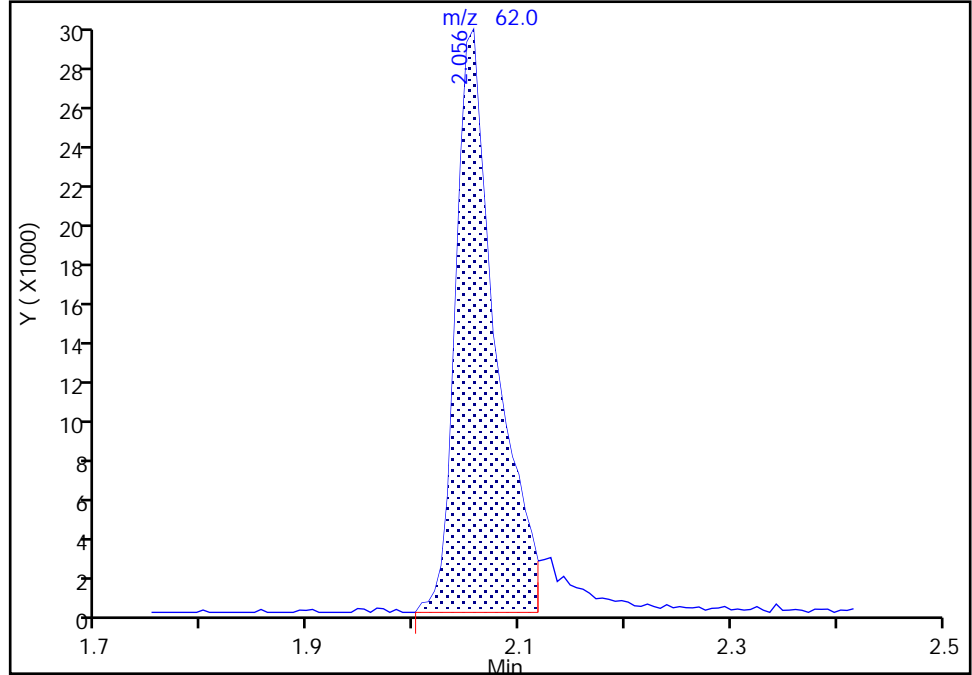
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Injection Date: 01-Oct-2020 19:30:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

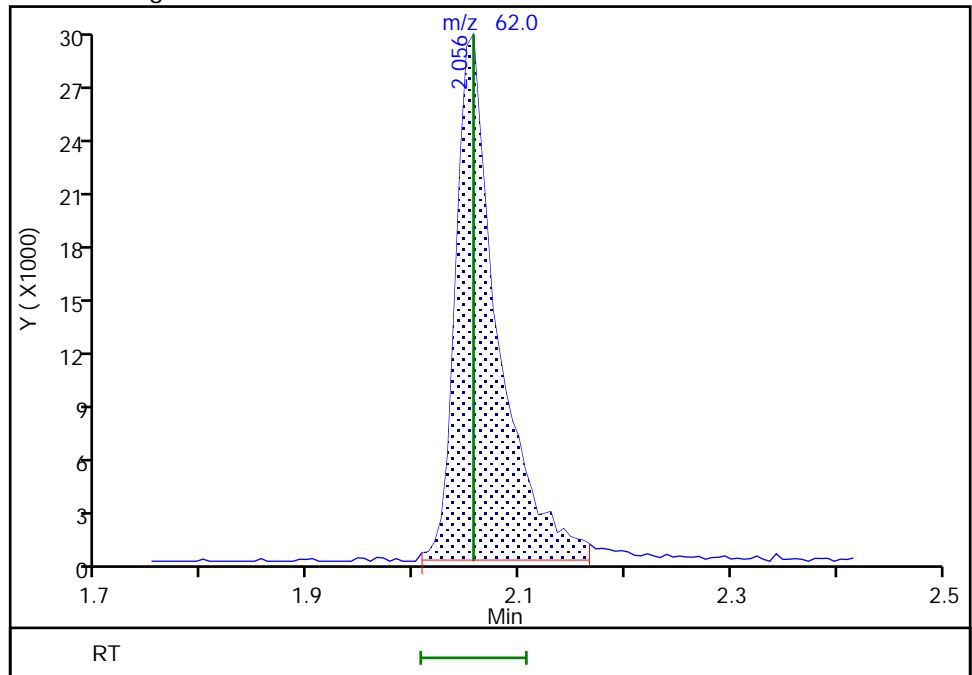
RT: 2.06  
Area: 78599  
Amount: 48.157353  
Amount Units: ug/L

Processing Integration Results



RT: 2.06  
Area: 82996  
Amount: 47.526783  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:01:07  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

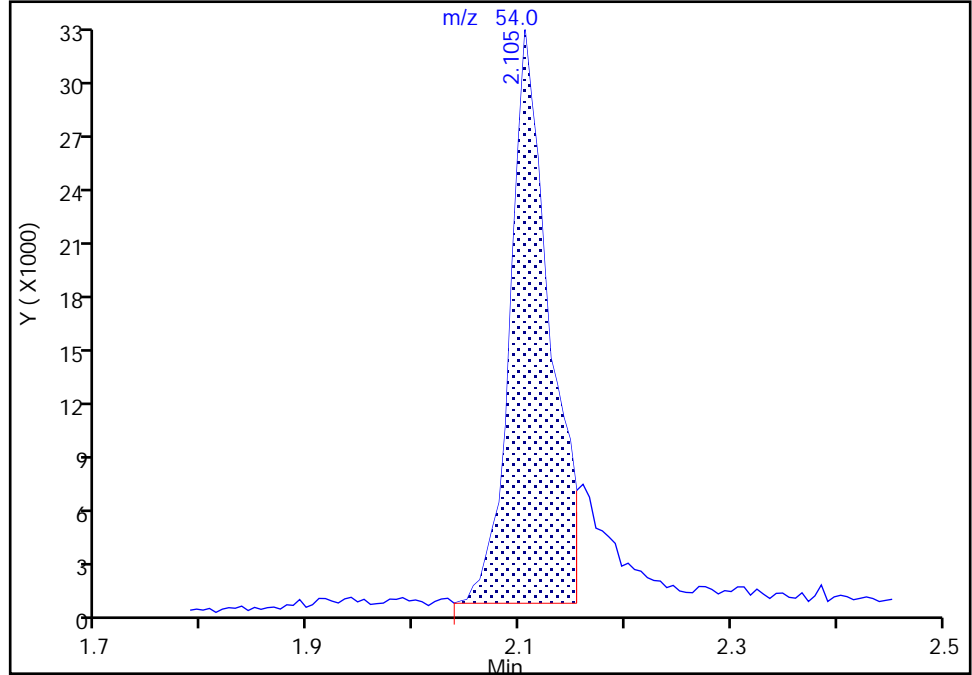
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Injection Date: 01-Oct-2020 19:30:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

6 Butadiene, CAS: 106-99-0

Signal: 1

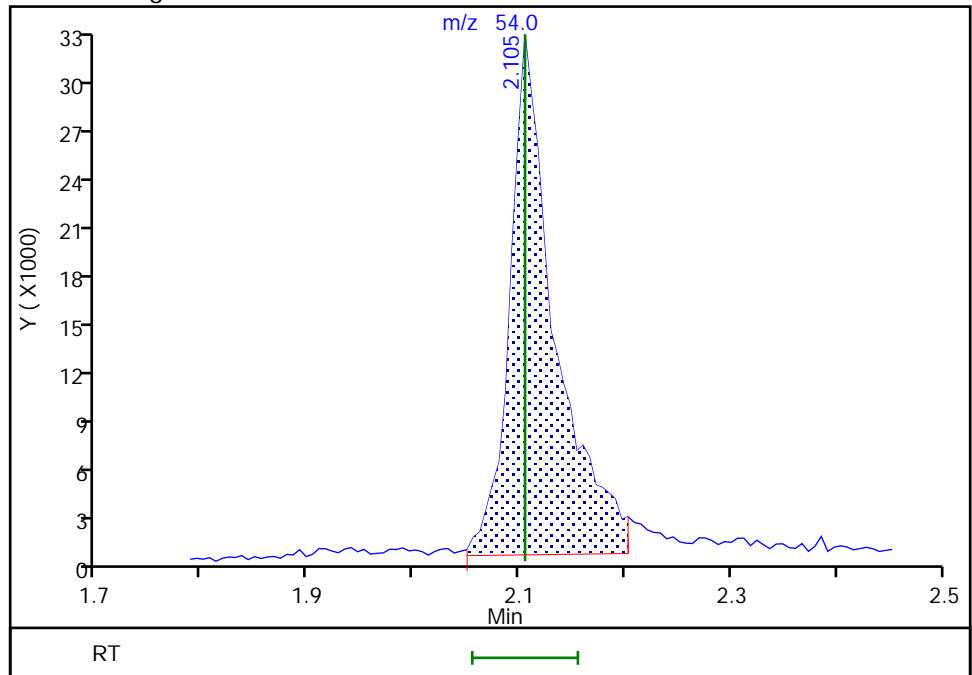
RT: 2.11  
Area: 81884  
Amount: 45.685703  
Amount Units: ug/L

Processing Integration Results



RT: 2.11  
Area: 94420  
Amount: 50.192956  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:01:13  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

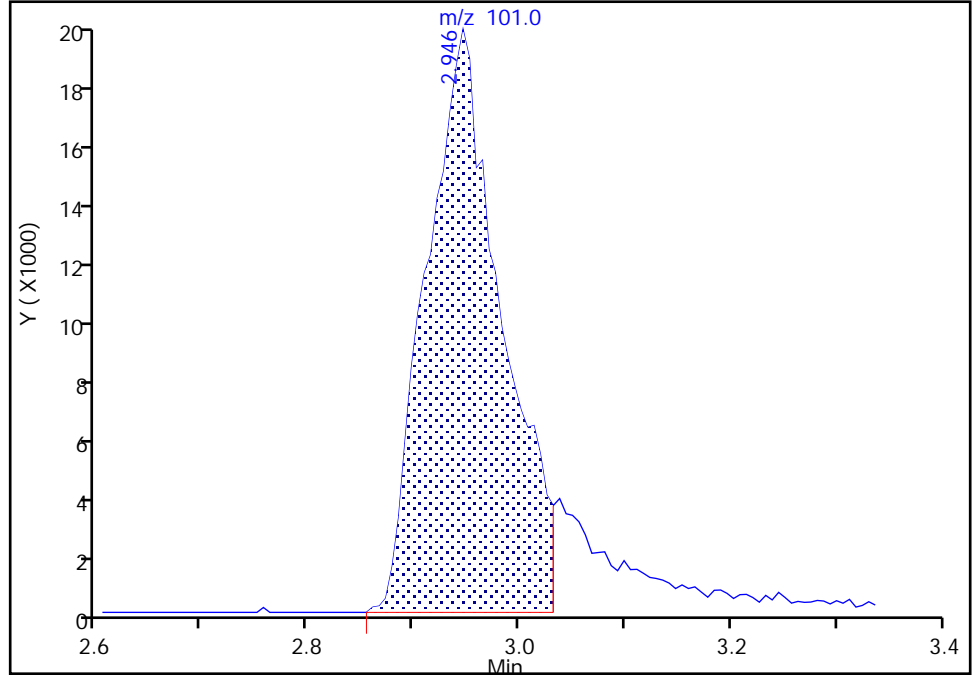
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Injection Date: 01-Oct-2020 19:30:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

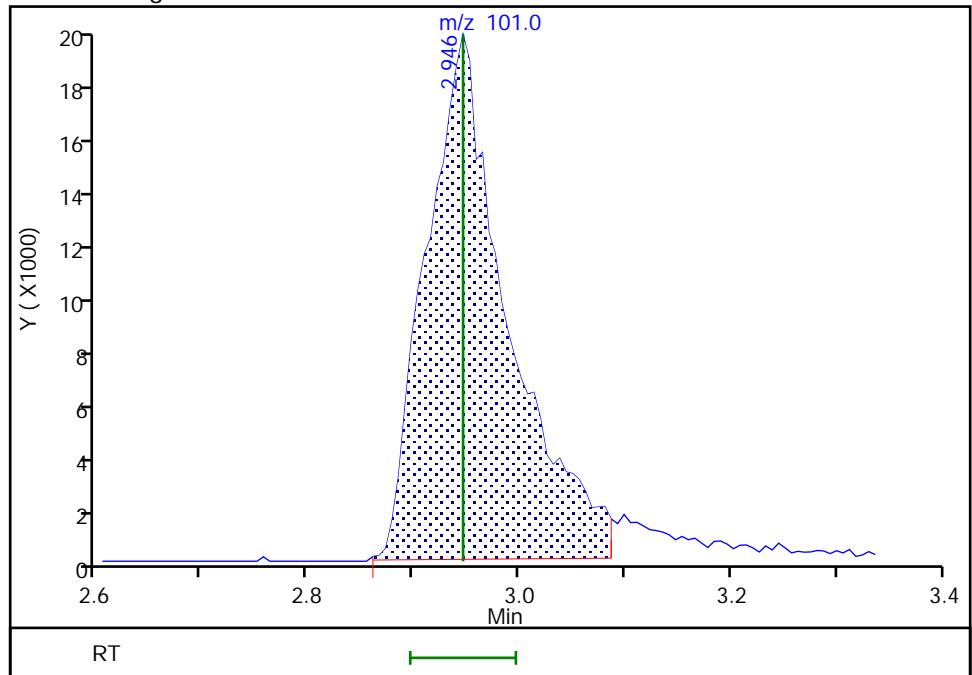
RT: 2.95  
Area: 95343  
Amount: 74.055974  
Amount Units: ug/L

Processing Integration Results



RT: 2.95  
Area: 102707  
Amount: 44.549743  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:01:24  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

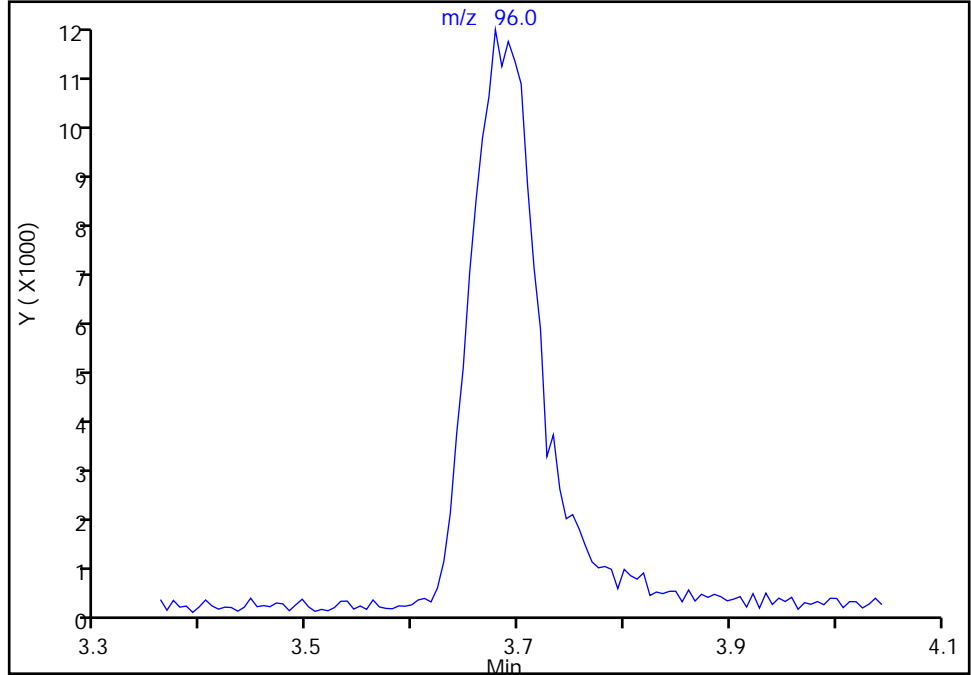
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Injection Date: 01-Oct-2020 19:30:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

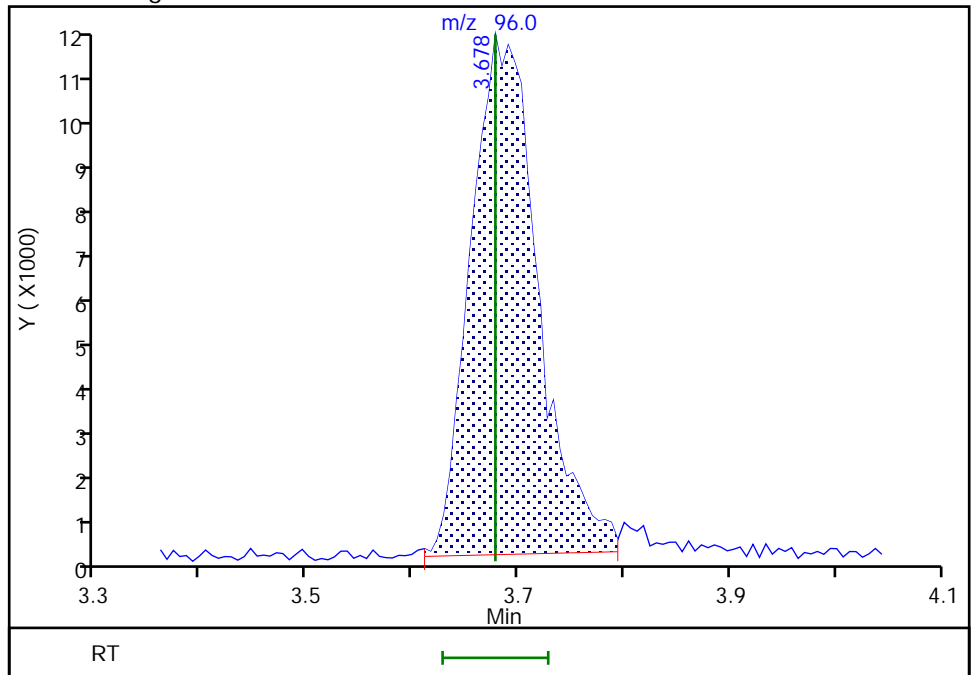
Not Detected  
Expected RT: 3.68

Processing Integration Results



Manual Integration Results

RT: 3.68  
Area: 50482  
Amount: 44.985614  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 13:01:31  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

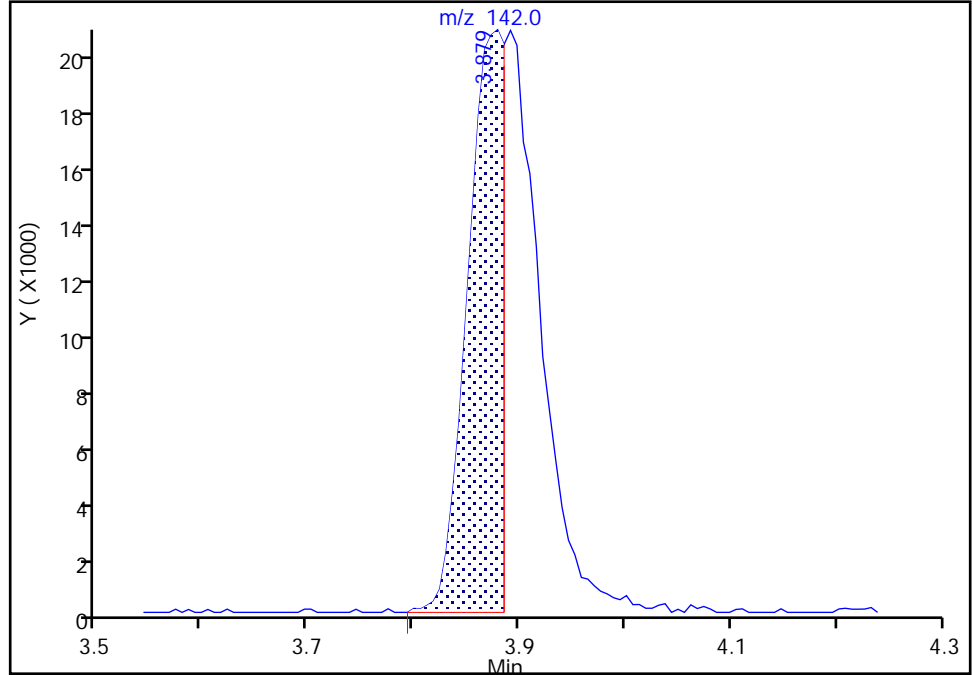
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_008.D  
Injection Date: 01-Oct-2020 19:30:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

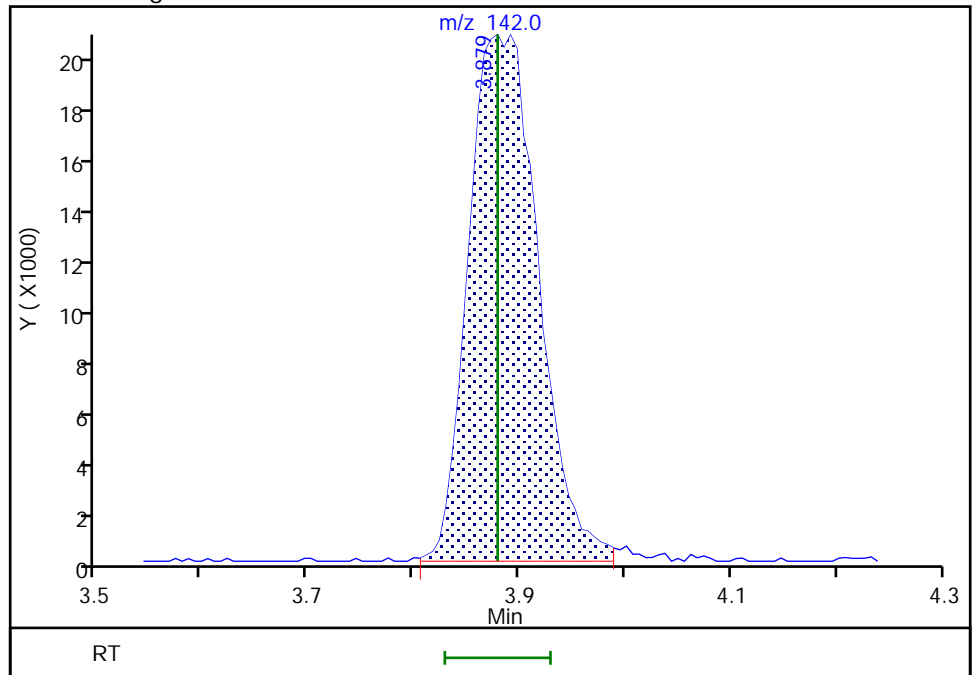
RT: 3.88  
Area: 49536  
Amount: 43.259478  
Amount Units: ug/L

Processing Integration Results



RT: 3.88  
Area: 92987  
Amount: 45.506929  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:01:40  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

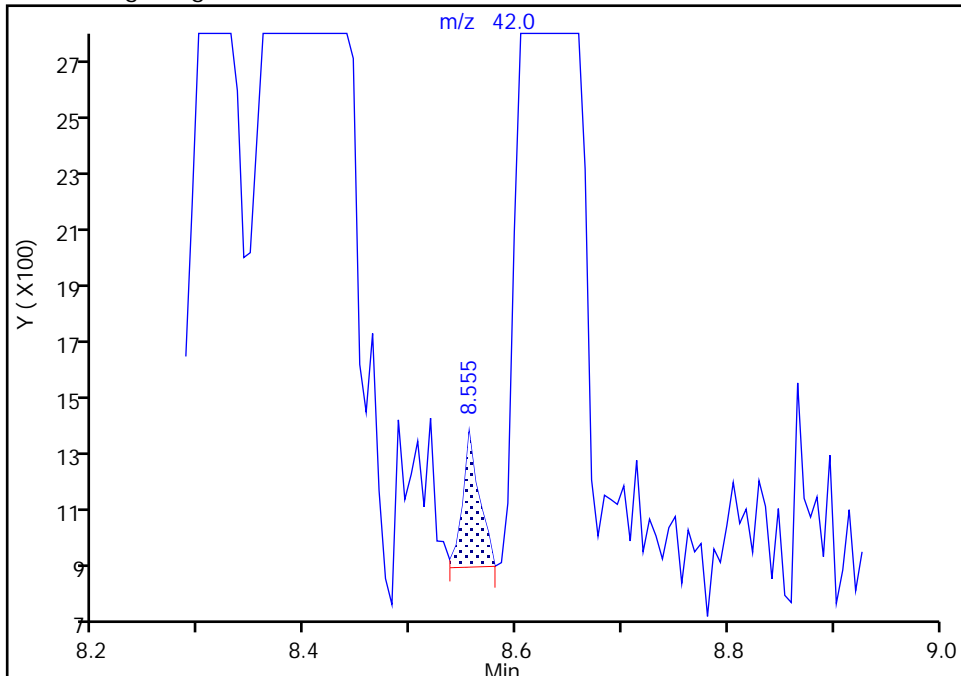
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Injection Date: 01-Oct-2020 19:30:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

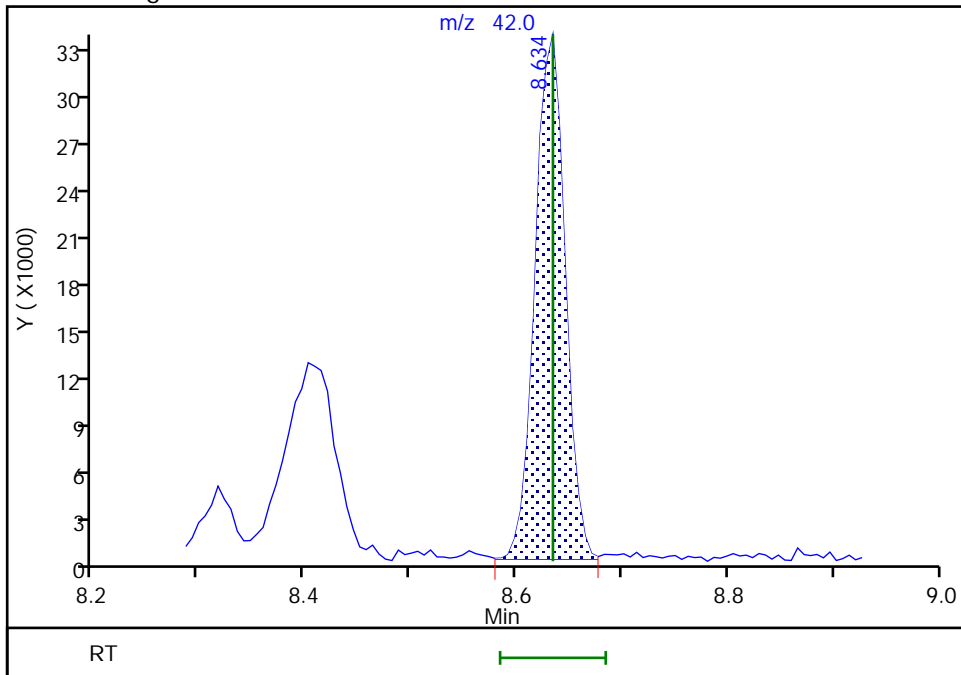
RT: 8.56  
Area: 519  
Amount: 6.537070  
Amount Units: ug/L

Processing Integration Results



RT: 8.63  
Area: 64067  
Amount: 96.855268  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:01:14  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected



Eurofins TestAmerica, Seattle

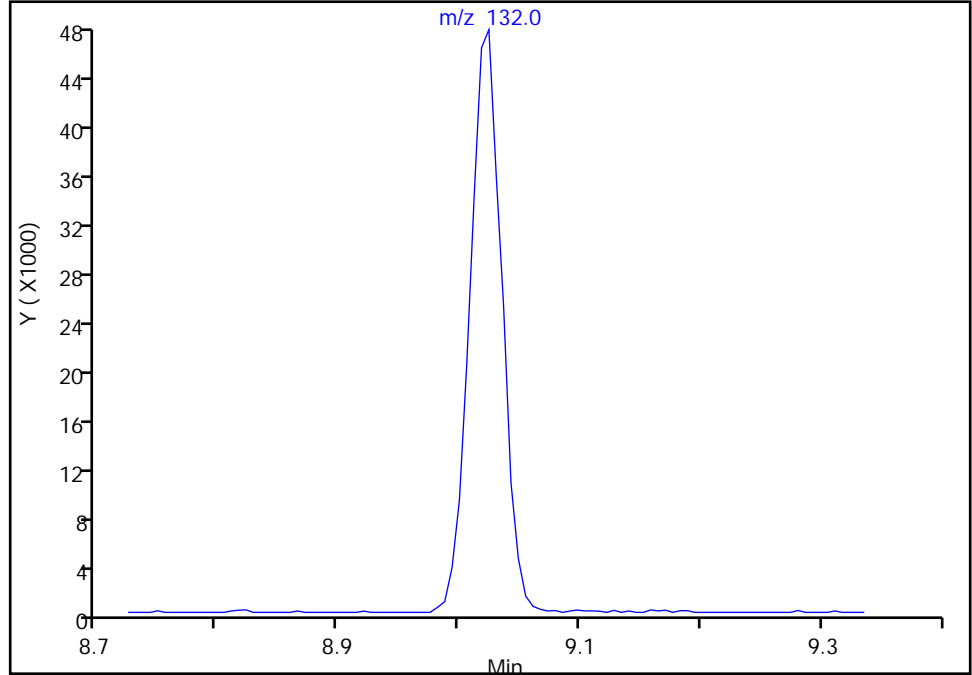
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Injection Date: 01-Oct-2020 19:30:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

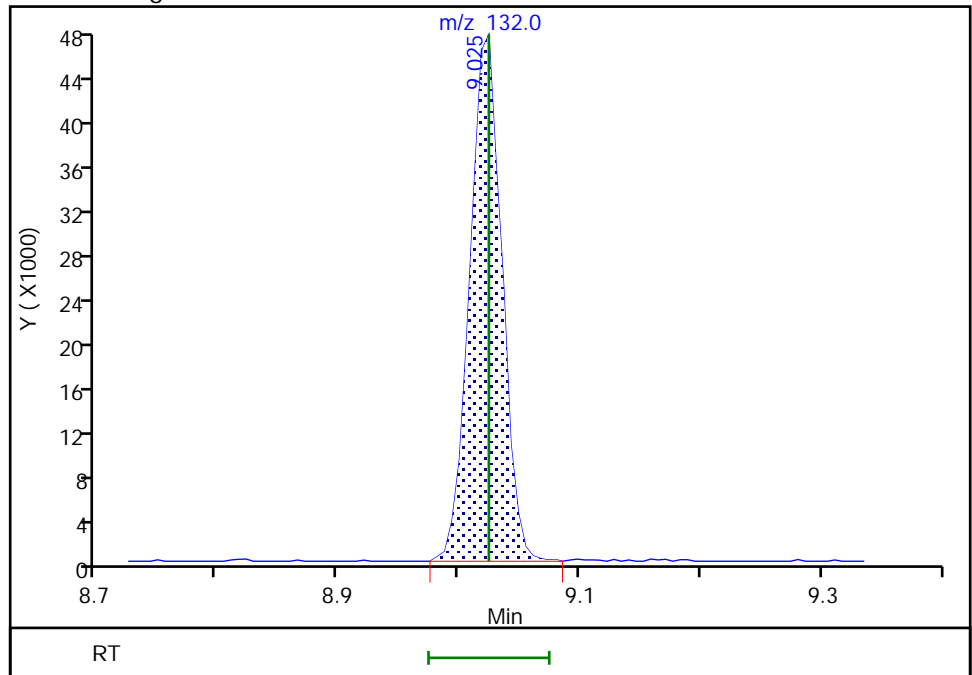
Not Detected  
Expected RT: 9.02

Processing Integration Results



RT: 9.02  
Area: 87241  
Amount: 43.673409  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:02:26  
Audit Action: Assigned Compound ID

Eurofins TestAmerica, Seattle

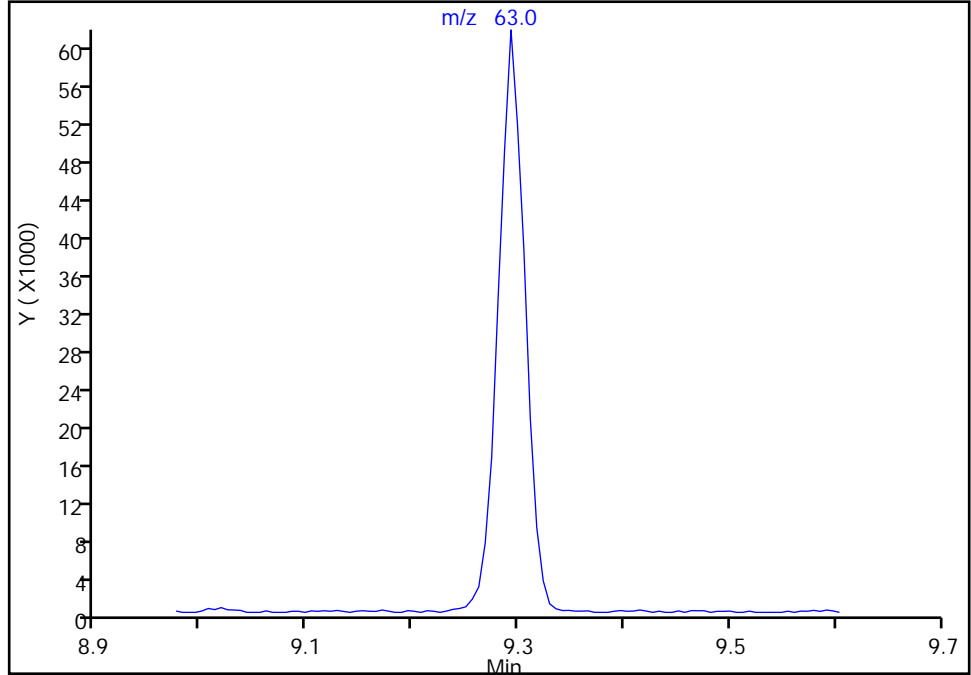
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Injection Date: 01-Oct-2020 19:30:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 8 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

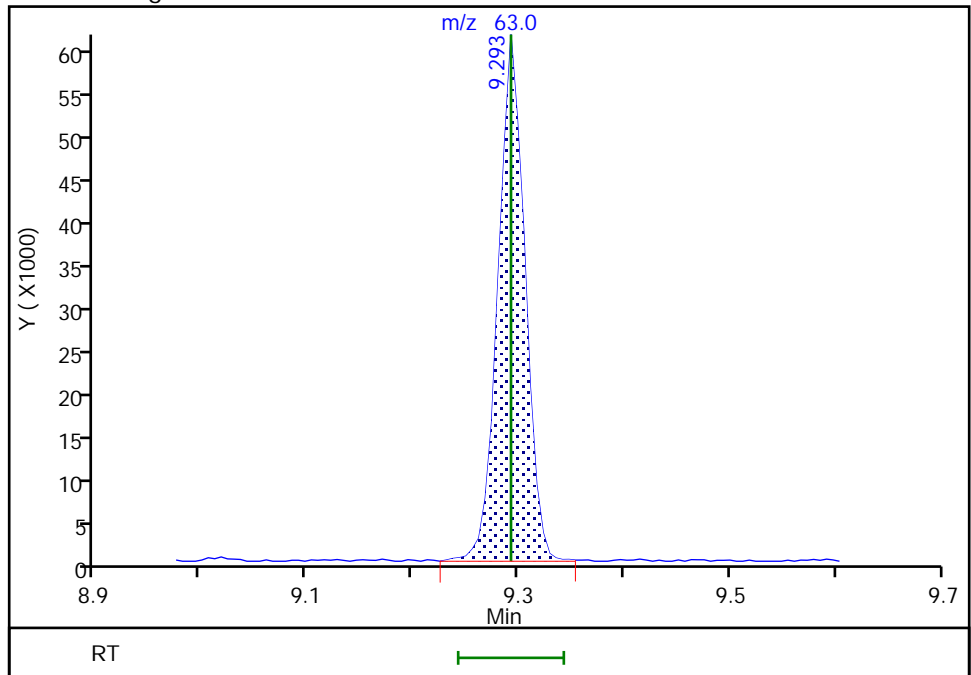
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 109062  
Amount: 46.518633  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 13:02:32  
Audit Action: Assigned Compound ID

Audit Reason: Baseline  
Page 482 of 974

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_009.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 01-Oct-2020 19:56:30 ALS Bottle#: 9 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 10  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3

Method: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 02-Oct-2020 11:33:36 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1029

First Level Reviewer: jantanuc Date: 02-Oct-2020 13:28:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.703	1.703	0.000	86	88460	100.0	103.5	
4 Chloromethane	50	1.928	1.928	0.000	82	261276	100.0	95.7	
5 Vinyl chloride	62	2.056	2.056	0.000	82	160593	100.0	102.0	
6 Butadiene	54	2.105	2.105	0.000	97	183030	100.0	107.3	
7 Bromomethane	94	2.471	2.471	0.000	93	78449	100.0	99.2	
8 Chloroethane	66	2.599	2.599	0.000	89	23713	100.0	94.0	
10 Dichlorofluoromethane	67	2.910	2.910	0.000	81	234614	100.0	114.5	
14 Trichlorofluoromethane	101	2.952	2.952	0.000	84	203979	100.0	97.6	
11 3-Chloro-1-propene	76	2.958	2.958	0.000	66	4961	100.0	107.2	M
17 Ethyl ether	59	3.324	3.324	0.000	95	172646	100.0	94.6	
12 Acrolein	56	3.507	3.507	0.000	93	253360	600.0	606.6	
19 1,1-Dichloroethene	96	3.696	3.696	0.000	81	91566	100.0	90.0	
16 Acetone	43	3.733	3.733	0.000	96	431845	500.0	468.2	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.739	3.739	0.000	40	86531	100.0	88.5	
22 Iodomethane	142	3.897	3.897	0.000	97	163749	100.0	88.4	M
26 Carbon disulfide	76	4.013	4.013	0.000	95	376662	100.0	97.8	
15 Isopropyl alcohol	45	4.044	4.044	0.000	96	177880	1000.0	922.3	
S 2 Xylenes, Total	100				0			194.7	
13 Acetonitrile	40	4.196	4.196	0.000	99	152676	1250.0	1312.3	
24 Methyl acetate	43	4.294	4.294	0.000	98	356937	200.0	201.0	
23 Methylene Chloride	84	4.531	4.531	0.000	82	125838	100.0	101.3	
* 18 TBA-d9 (IS)	65	4.653	4.653	0.000	0	37688	200.0	200.0	
20 2-Methyl-2-propanol	59	4.806	4.806	0.000	97	265922	1000.0	984.5	
21 Acrylonitrile	53	4.970	4.970	0.000	97	836620	1000.0	1031.0	
27 trans-1,2-Dichloroethene	96	5.062	5.062	0.000	74	142520	100.0	90.6	
28 Methyl tert-butyl ether	73	5.074	5.074	0.000	86	449950	100.0	98.5	
34 Hexane	57	5.641	5.641	0.000	95	370119	100.0	100.0	
30 1,1-Dichloroethane	63	5.897	5.897	0.000	86	353114	100.0	95.9	
31 Vinyl acetate	86	5.976	5.976	0.000	97	80722	250.0	228.9	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	63	452946	100.0	98.7	
35 Isopropyl ether	45	6.049	6.049	0.000	93	1149371	125.0	127.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	96	254389	125.0	122.2	
43 2,2-Dichloropropane	77	6.909	6.909	0.000	64	234742	100.0	95.4	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	55	169133	100.0	95.8	
33 2-Butanone (MEK)	72	6.921	6.927	-0.006	95	95835	500.0	501.2	
29 Propionitrile	54	7.006	7.006	0.000	75	405603	1250.0	1320.4	
38 Ethyl acetate	43	7.049	7.049	0.000	99	532431	200.0	207.0	
36 Methacrylonitrile	67	7.263	7.263	0.000	97	655866	1000.0	987.1	
39 Chlorobromomethane	130	7.305	7.305	0.000	79	98209	100.0	93.8	
40 Chloroform	83	7.506	7.506	0.000	80	290618	100.0	92.2	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	88	257182	100.0	97.1	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.738	0.000	77	16411	10.0	9.84	
51 Cyclohexane	84	7.799	7.799	0.000	94	208599	100.0	92.2	
52 Carbon tetrachloride	117	7.933	7.933	0.000	73	236221	100.0	100.2	
50 1,1-Dichloropropene	75	7.945	7.945	0.000	76	226470	100.0	93.7	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.183	8.183	0.000	0	22566	10.0	9.94	
53 Benzene	78	8.195	8.195	0.000	90	631654	100.0	95.5	
42 Isobutyl alcohol	43	8.201	8.201	0.000	72	352285	2500.0	2459.6	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	76	300688	100.0	96.8	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	85	594903	125.0	122.6	
* 55 Fluorobenzene (IS)	96	8.598	8.598	0.000	95	62650	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.634	0.000	37	119085	200.0	200.0	a
56 n-Heptane	43	8.634	8.634	0.000	96	462754	100.0	96.9	
61 Trichloroethene	132	9.024	9.024	0.000	88	168348	100.0	93.0	a
57 Ethyl acrylate	55	9.152	9.152	0.000	98	323232	100.0	93.4	
49 n-Butanol	56	9.268	9.268	0.000	52	110865	2500.0	2295.8	
66 Methylcyclohexane	83	9.268	9.268	0.000	90	279947	100.0	94.7	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	78	205417	100.0	96.7	a
59 Dibromomethane	174	9.390	9.390	0.000	35	95999	100.0	102.6	
63 Methyl methacrylate	69	9.396	9.396	0.000	85	220861	200.0	198.8	
62 Dichlorobromomethane	83	9.591	9.591	0.000	88	234820	100.0	95.1	
58 2-Nitropropane	43	9.805	9.805	0.000	99	215669	200.0	186.0	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	86	98268	100.0	106.2	
67 cis-1,3-Dichloropropene	75	10.030	10.030	0.000	77	285179	100.0	95.2	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	98	423587	500.0	497.1	
\$ 72 Toluene-d8 (Surr)	98	10.280	10.280	0.000	95	63165	10.0	9.86	
74 Toluene	91	10.341	10.341	0.000	96	723006	100.0	91.5	
70 n-Butyl acetate	43	10.475	10.475	0.000	89	48835	100.0	100.2	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	83	268387	100.0	98.1	
73 Ethyl methacrylate	69	10.622	10.622	0.000	85	199983	100.0	97.1	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	88	141552	100.0	102.0	
79 Tetrachloroethene	164	10.817	10.817	0.000	85	144995	100.0	98.2	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	87	250196	100.0	98.8	
76 2-Hexanone	58	10.933	10.933	0.000	81	422067	500.0	505.1	
77 Chlorodibromomethane	129	11.079	11.079	0.000	87	182204	100.0	98.8	
78 Ethylene Dibromide	107	11.176	11.176	0.000	97	139027	100.0	100.3	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	44	50944	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	89	495310	100.0	100.4	
80 1,1,1,2-Tetrachloroethane	131	11.682	11.682	0.000	41	179332	100.0	94.9	
83 Ethylbenzene	91	11.682	11.682	0.000	98	829228	100.0	105.0	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	659236	100.0	91.9	
88 o-Xylene	91	12.115	12.115	0.000	95	662697	100.0	102.8	
86 Styrene	104	12.134	12.134	0.000	90	475072	100.0	99.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	94	113079	100.0	102.7	
91 Isopropylbenzene	105	12.414	12.414	0.000	97	784670	100.0	96.8	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	84	19565	10.0	10.6	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	87	160439	100.0	102.3	
93 Bromobenzene	156	12.682	12.682	0.000	89	184587	100.0	100.9	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	54	86381	100.0	105.8	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	57	50152	100.0	96.6	
94 N-Propylbenzene	91	12.749	12.749	0.000	89	926962	100.0	102.5	
95 2-Chlorotoluene	126	12.829	12.829	0.000	94	183412	100.0	100.7	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	94	654809	100.0	100.2	
96 4-Chlorotoluene	126	12.926	12.926	0.000	82	183562	100.0	96.8	
98 tert-Butylbenzene	119	13.152	13.152	0.000	89	599400	100.0	99.8	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	68	646671	100.0	99.1	
100 sec-Butylbenzene	105	13.328	13.328	0.000	96	840293	100.0	99.4	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	93	338244	100.0	102.1	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	97	695324	100.0	99.2	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	43	21406	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	91	333302	100.0	100.4	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	98	657732	100.0	94.9	
101 Benzyl chloride	126	13.597	13.597	0.000	99	69089	100.0	97.2	
108 n-Butylbenzene	134	13.761	13.761	0.000	98	166308	100.0	95.8	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	94	324833	100.0	102.4	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.401	0.000	73	34384	100.0	100.7	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	95	225928	100.0	92.6	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	91	197620	100.0	95.7	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	94	124722	100.0	98.5	
112 Naphthalene	128	15.249	15.249	0.000	97	512374	100.0	91.0	
114 1,2,3-Trichlorobenzene	180	15.419	15.419	0.000	94	197375	100.0	92.8	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 10.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_009.D

Injection Date: 01-Oct-2020 19:56:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 9

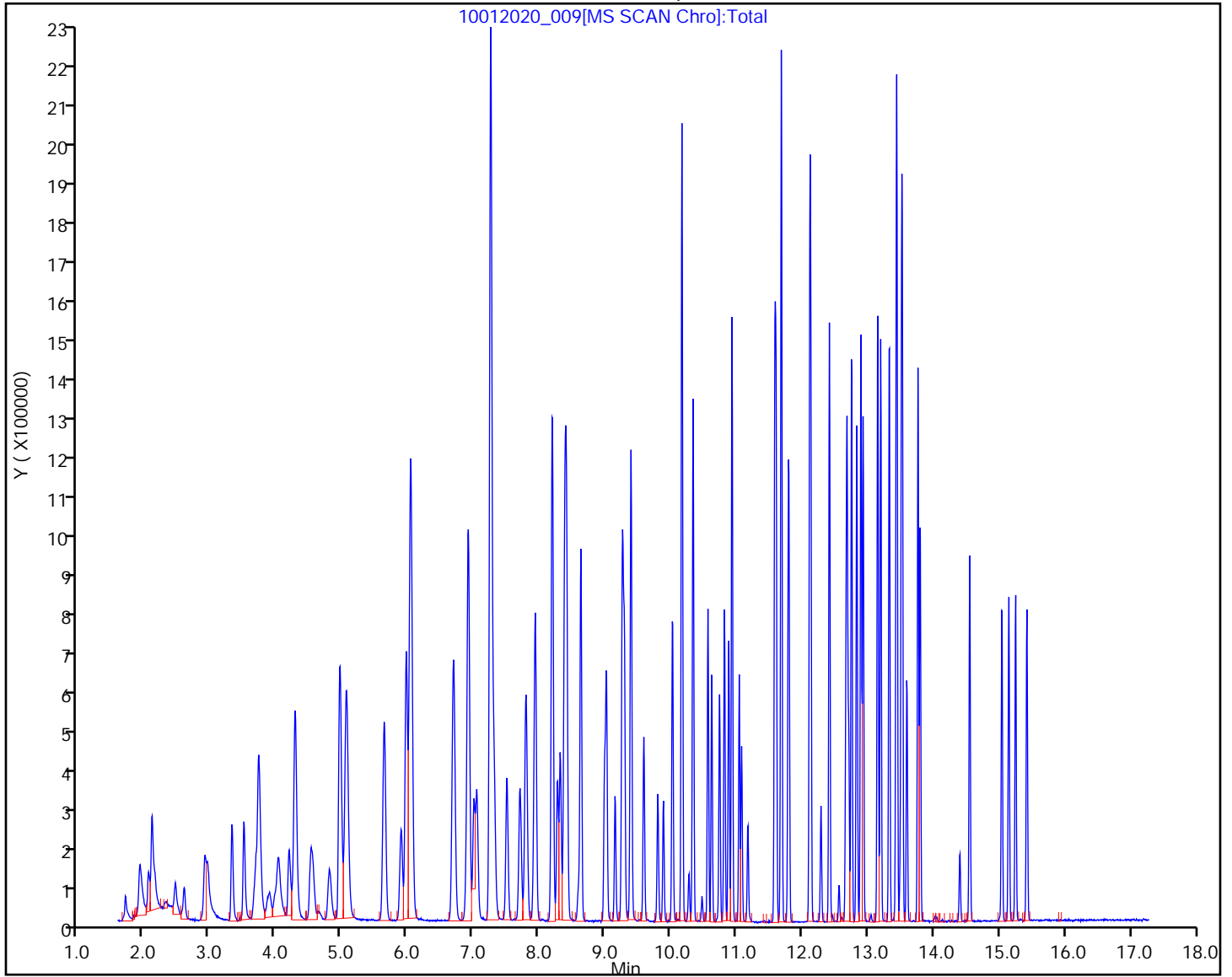
Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

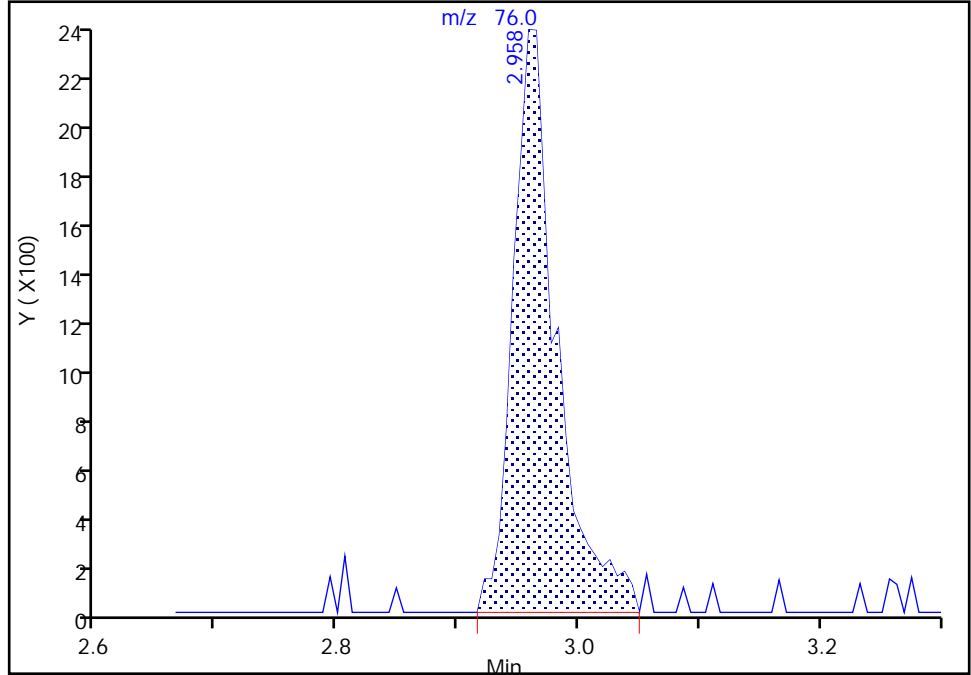
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Injection Date: 01-Oct-2020 19:56:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 9 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

11 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

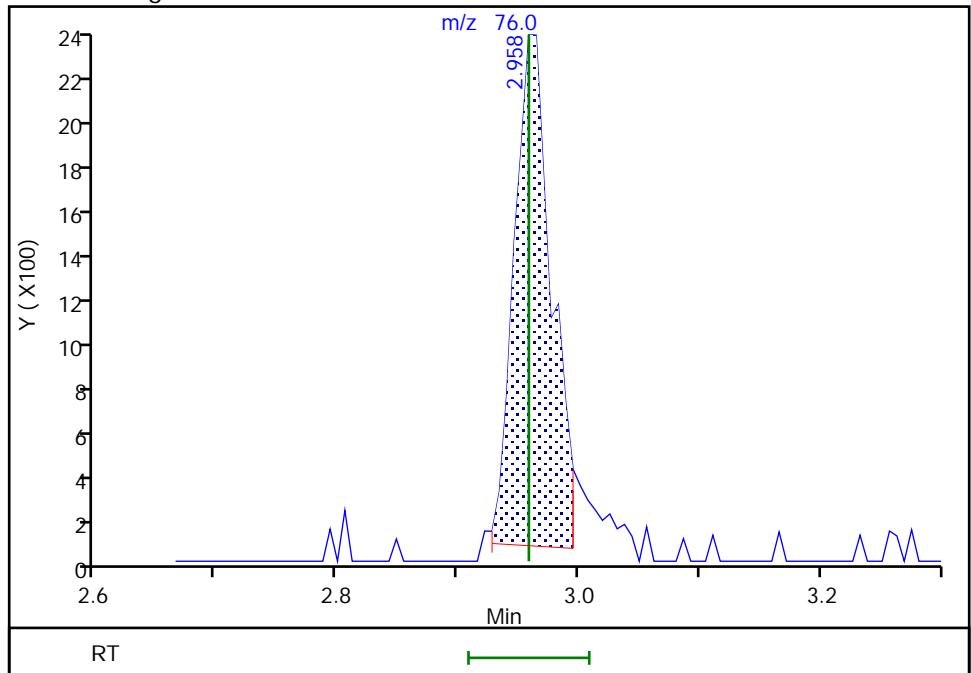
RT: 2.96  
Area: 5925  
Amount: 108.8461  
Amount Units: ug/L

Processing Integration Results



RT: 2.96  
Area: 4961  
Amount: 107.2391  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:27:16  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

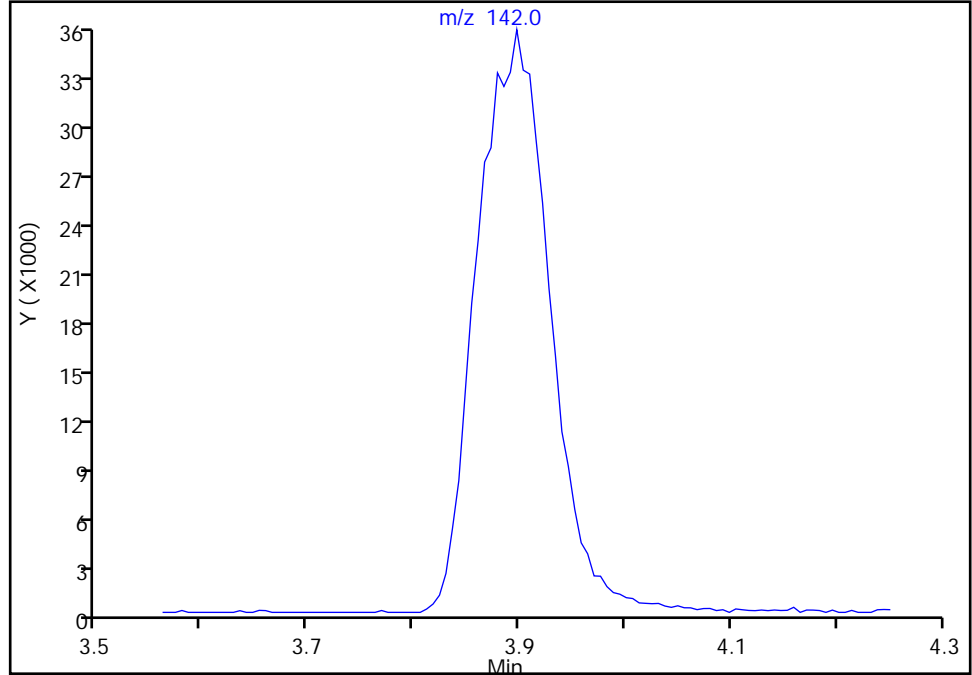
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Injection Date: 01-Oct-2020 19:56:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 9 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

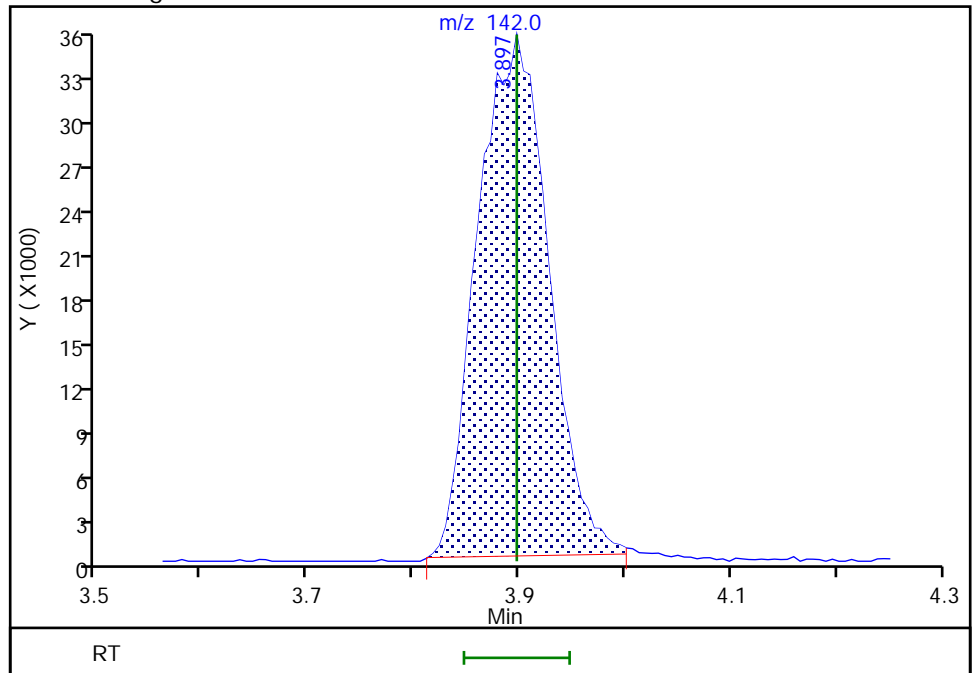
Not Detected  
Expected RT: 3.90

Processing Integration Results



Manual Integration Results

RT: 3.90  
Area: 163749  
Amount: 88.410539  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 13:26:19  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

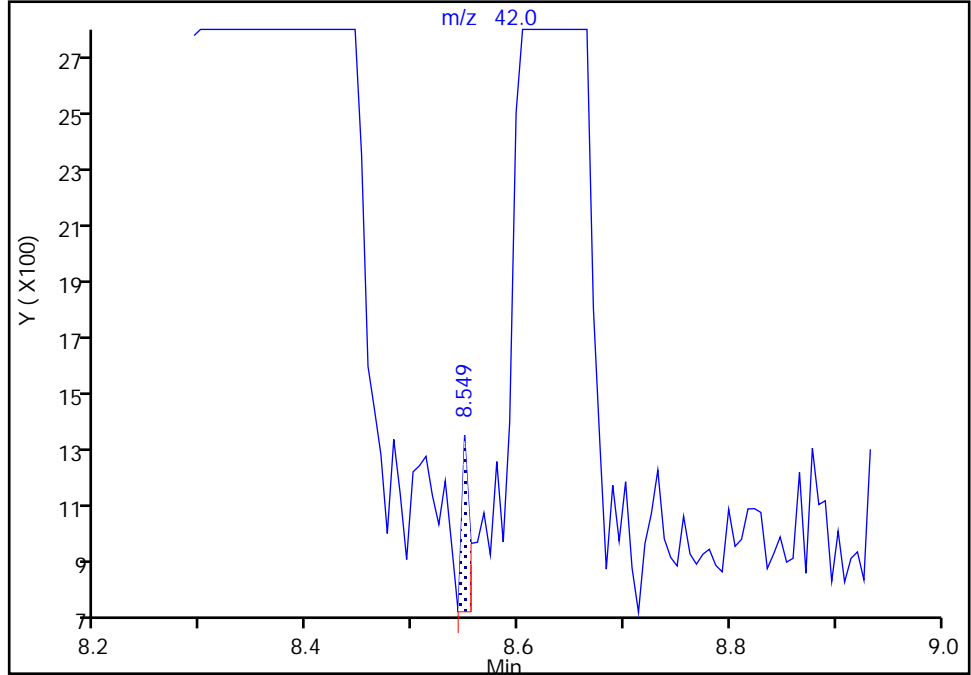
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Injection Date: 01-Oct-2020 19:56:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 9 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

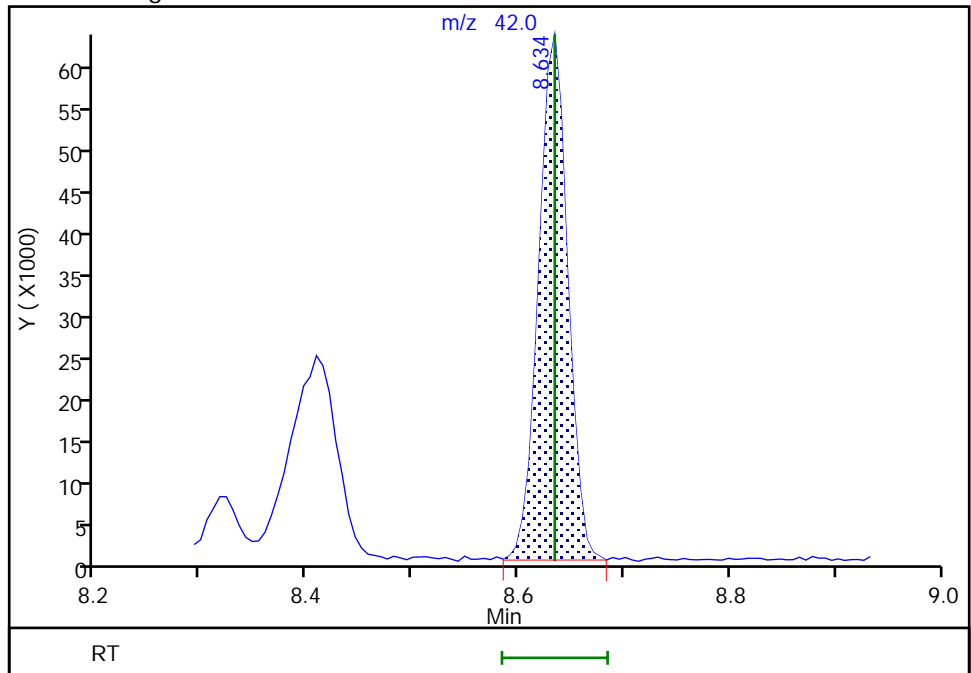
RT: 8.55  
Area: 306  
Amount: 3.854736  
Amount Units: ug/L

Processing Integration Results



RT: 8.63  
Area: 119085  
Amount: 200.0005  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:03:13  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Seattle

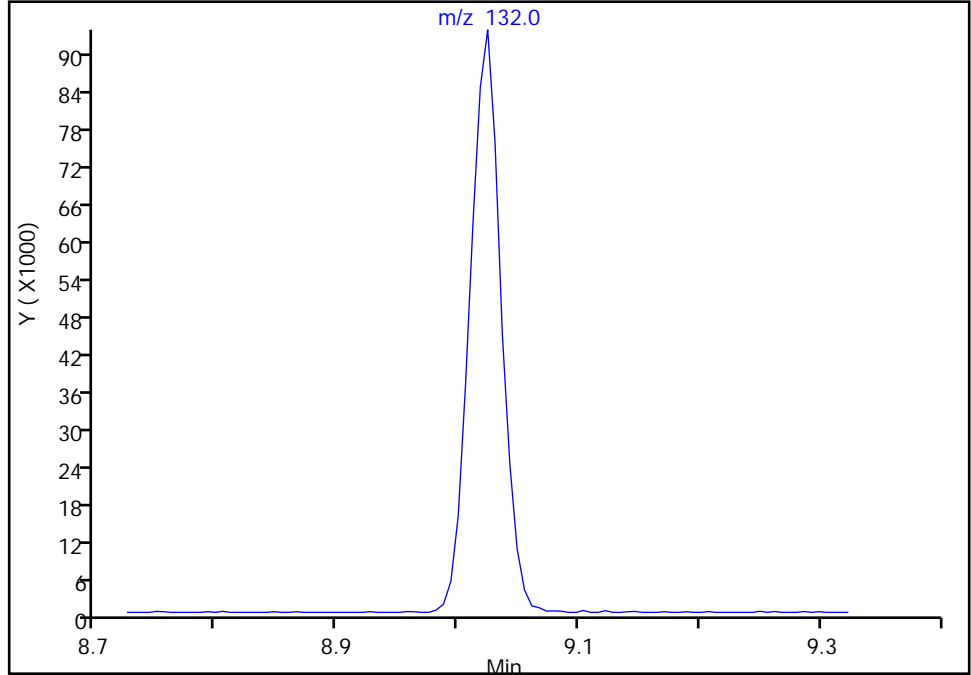
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Injection Date: 01-Oct-2020 19:56:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 9 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

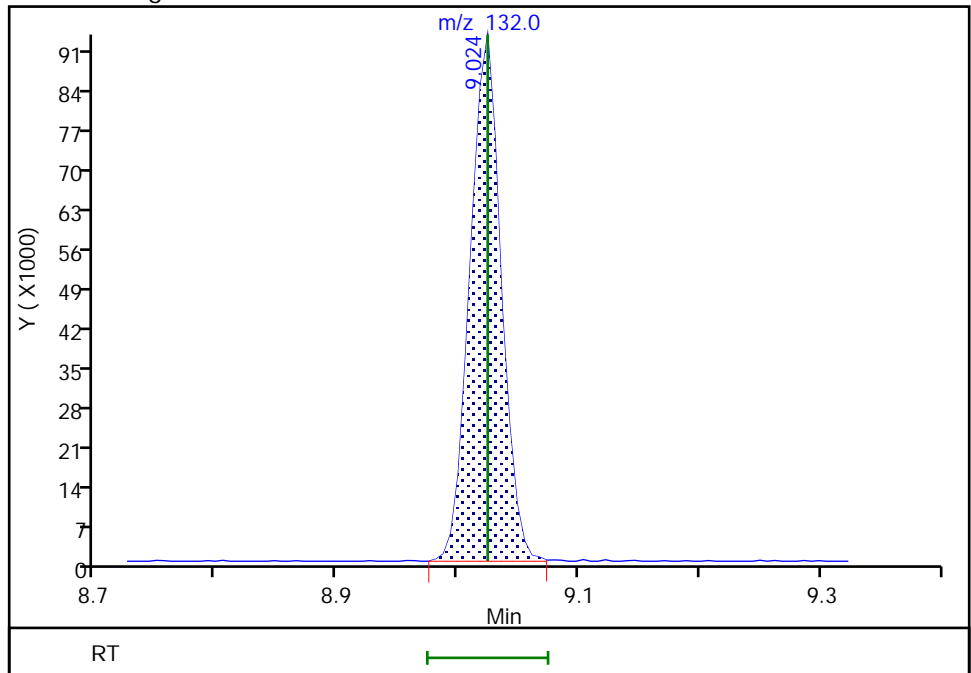
Not Detected  
Expected RT: 9.02

Processing Integration Results



Manual Integration Results

RT: 9.02  
Area: 168348  
Amount: 92.976780  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 13:26:45  
Audit Action: Assigned Compound ID

Eurofins TestAmerica, Seattle

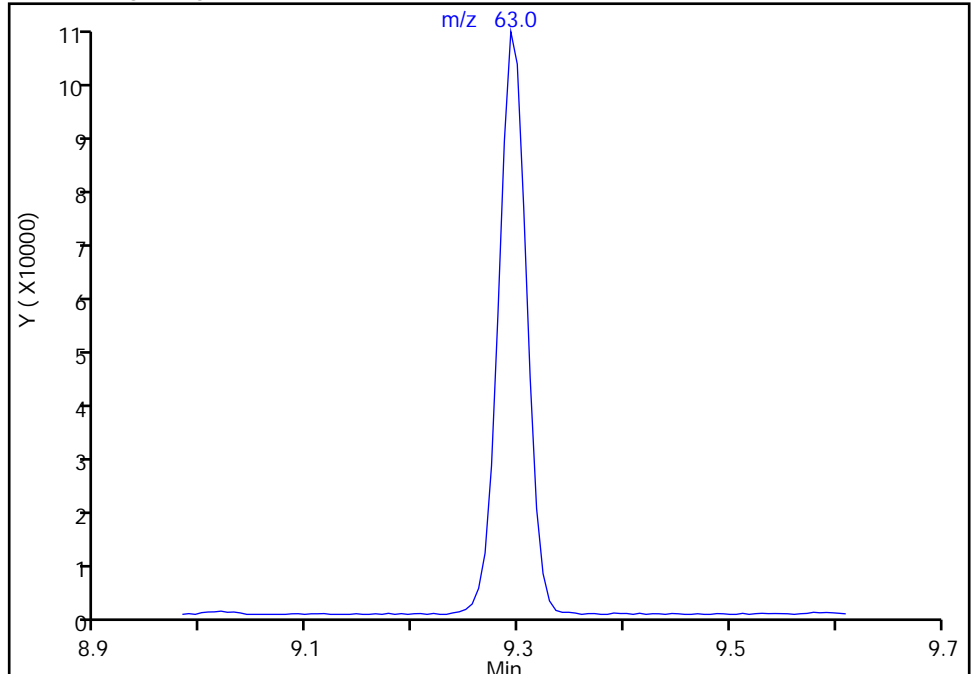
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 9 Worklist Smp#: 10  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

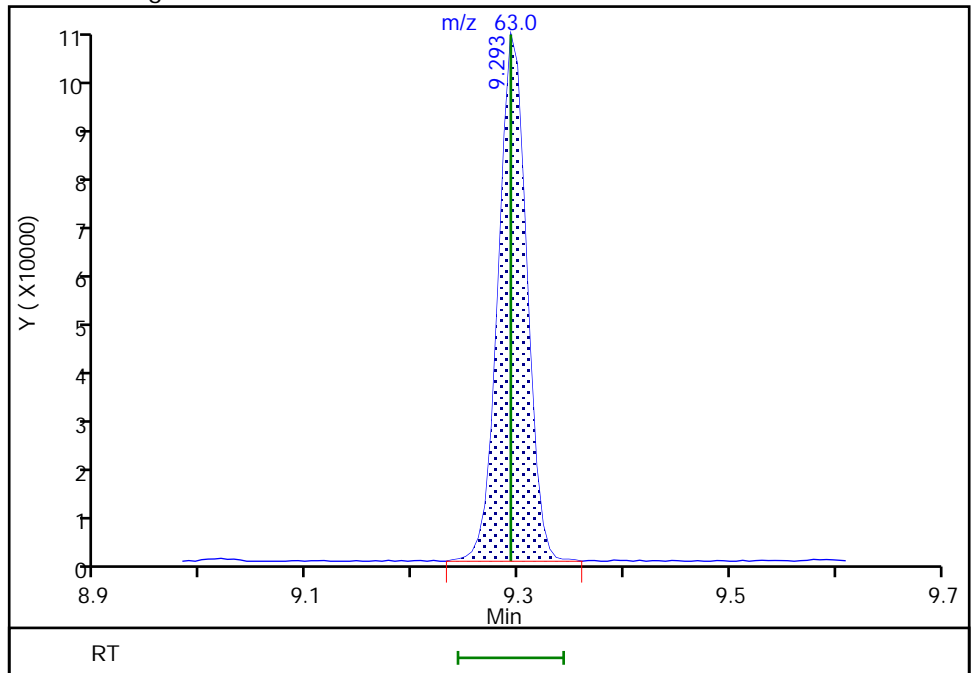
Not Detected  
Expected RT: 9.29

Processing Integration Results



RT: 9.29  
Area: 205417  
Amount: 96.662929  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:26:52  
Audit Action: Assigned Compound ID

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 01-Oct-2020 20:22:30 ALS Bottle#: 10 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 15  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3

Method: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 02-Oct-2020 11:33:47 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1029

First Level Reviewer: jantanuc Date: 02-Oct-2020 13:29:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.703	1.703	0.000	86	136948	150.0	153.3	
4 Chloromethane	50	1.928	1.928	0.000	93	395346	150.0	139.0	
5 Vinyl chloride	62	2.056	2.056	0.000	79	248088	150.0	151.4	
6 Butadiene	54	2.111	2.111	0.000	97	299222	150.0	168.5	
7 Bromomethane	94	2.465	2.465	0.000	93	125202	150.0	151.8	a
8 Chloroethane	66	2.599	2.599	0.000	94	39540	150.0	153.4	
10 Dichlorofluoromethane	67	2.910	2.910	0.000	81	368151	150.0	172.5	
14 Trichlorofluoromethane	101	2.952	2.952	0.000	85	298751	150.0	137.3	a
11 3-Chloro-1-propene	76	2.965	2.965	0.000	66	7017	150.0	147.9	
17 Ethyl ether	59	3.324	3.324	0.000	96	280219	150.0	147.4	
12 Acrolein	56	3.507	3.507	0.000	92	413079	900.0	949.6	
19 1,1-Dichloroethene	96	3.684	3.684	0.000	81	151175	150.0	142.7	
16 Acetone	43	3.733	3.733	0.000	97	730791	750.0	760.7	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.745	3.745	0.000	42	134371	150.0	131.9	
22 Iodomethane	142	3.891	3.891	0.000	97	273809	150.0	142.0	
26 Carbon disulfide	76	4.013	4.013	0.000	95	600510	150.0	149.8	
S 2 Xylenes, Total	100				0			279.2	
15 Isopropyl alcohol	45	4.038	4.038	0.000	98	296271	1500.0	1426.6	
13 Acetonitrile	40	4.190	4.190	0.000	100	253351	1875.0	2091.1	a
24 Methyl acetate	43	4.294	4.294	0.000	98	580367	300.0	314.5	
23 Methylene Chloride	84	4.531	4.531	0.000	83	202732	150.0	158.6	
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	40582	200.0	200.0	
20 2-Methyl-2-propanol	59	4.812	4.812	0.000	96	425697	1500.0	1513.4	
21 Acrylonitrile	53	4.964	4.964	0.000	97	1357598	1500.0	1604.9	
27 trans-1,2-Dichloroethene	96	5.062	5.062	0.000	77	228648	150.0	139.6	
28 Methyl tert-butyl ether	73	5.068	5.068	0.000	87	725543	150.0	152.6	
34 Hexane	57	5.641	5.641	0.000	95	572683	150.0	149.6	
30 1,1-Dichloroethane	63	5.903	5.903	0.000	86	568865	150.0	148.3	
31 Vinyl acetate	86	5.976	5.976	0.000	97	132116	375.0	359.7	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	66	721231	150.0	150.9	
35 Isopropyl ether	45	6.049	6.049	0.000	93	1816191	187.5	192.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	96	401701	187.5	185.2	
43 2,2-Dichloropropane	77	6.915	6.915	0.000	58	373910	150.0	145.9	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	55	266830	150.0	145.1	
33 2-Butanone (MEK)	72	6.927	6.921	0.006	95	153067	750.0	768.7	
29 Propionitrile	54	7.007	7.007	0.000	86	648735	1875.0	2027.8	
38 Ethyl acetate	43	7.049	7.049	0.000	98	842468	300.0	314.5	
36 Methacrylonitrile	67	7.263	7.263	0.000	96	1020630	1500.0	1474.9	
39 Chlorobromomethane	130	7.305	7.305	0.000	78	156370	150.0	143.4	
40 Chloroform	83	7.506	7.506	0.000	81	459668	150.0	140.1	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	90	409220	150.0	148.3	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	80	17269	10.0	9.95	
51 Cyclohexane	84	7.799	7.799	0.000	95	333878	150.0	141.7	
52 Carbon tetrachloride	117	7.927	7.927	0.000	79	373145	150.0	152.0	
50 1,1-Dichloropropene	75	7.945	7.945	0.000	75	355995	150.0	141.4	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	23598	10.0	9.98	
53 Benzene	78	8.195	8.195	0.000	90	995896	150.0	144.5	
42 Isobutyl alcohol	43	8.201	8.201	0.000	73	557422	3750.0	3614.2	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	76	477905	150.0	147.8	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	84	920313	187.5	182.1	
* 55 Fluorobenzene (IS)	96	8.598	8.598	0.000	95	65246	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.634	0.000	41	186874	300.0	302.0	a
56 n-Heptane	43	8.634	8.634	0.000	95	725391	150.0	145.8	
61 Trichloroethene	132	9.024	9.024	0.000	89	258631	150.0	137.2	a
57 Ethyl acrylate	55	9.153	9.153	0.000	98	496459	150.0	137.8	
49 n-Butanol	56	9.262	9.262	0.000	49	177567	3750.0	3530.8	
66 Methylcyclohexane	83	9.268	9.268	0.000	90	434947	150.0	141.3	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	77	321698	150.0	145.4	a
59 Dibromomethane	174	9.390	9.390	0.000	35	147270	150.0	151.2	
63 Methyl methacrylate	69	9.396	9.396	0.000	85	345484	300.0	298.6	
62 Dichlorobromomethane	83	9.591	9.591	0.000	89	366216	150.0	142.4	
58 2-Nitropropane	43	9.805	9.805	0.000	99	336479	300.0	278.6	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	86	151259	150.0	159.1	
67 cis-1,3-Dichloropropene	75	10.030	10.030	0.000	78	434213	150.0	140.9	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	98	659548	750.0	752.4	
\$ 72 Toluene-d8 (Surr)	98	10.280	10.280	0.000	94	65928	10.0	10.0	
74 Toluene	91	10.341	10.341	0.000	96	1111969	150.0	136.9	
70 n-Butyl acetate	43	10.475	10.475	0.000	89	75797	150.0	151.9	a
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	83	408322	150.0	145.1	
73 Ethyl methacrylate	69	10.628	10.628	0.000	85	301696	150.0	142.3	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	89	210154	150.0	147.3	
79 Tetrachloroethene	164	10.817	10.817	0.000	86	222393	150.0	147.9	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	87	378266	150.0	145.2	
76 2-Hexanone	58	10.933	10.933	0.000	74	654973	750.0	762.0	
77 Chlorodibromomethane	129	11.079	11.079	0.000	89	270244	150.0	142.5	
78 Ethylene Dibromide	107	11.177	11.177	0.000	98	215530	150.0	151.3	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	44	52405	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	88	725921	150.0	143.1	
80 1,1,1,2-Tetrachloroethane	131	11.683	11.683	0.000	41	263315	150.0	135.5	
83 Ethylbenzene	91	11.683	11.683	0.000	98	1229582	150.0	151.5	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	974983	150.0	132.1	
88 o-Xylene	91	12.115	12.115	0.000	95	974028	150.0	147.1	
86 Styrene	104	12.134	12.134	0.000	91	688649	150.0	140.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	94	167384	150.0	147.7	
91 Isopropylbenzene	105	12.414	12.414	0.000	97	1122971	150.0	134.6	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	83	18520	10.0	9.78	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	88	240155	150.0	150.4	
93 Bromobenzene	156	12.682	12.682	0.000	89	269388	150.0	144.5	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	53	126008	150.0	151.7	
90 1,2,3-Trichloropropane	110	12.713	12.713	0.000	48	72592	150.0	137.3	
94 N-Propylbenzene	91	12.749	12.749	0.000	89	1316819	150.0	142.9	
95 2-Chlorotoluene	126	12.835	12.835	0.000	94	258162	150.0	139.1	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	93	915102	150.0	137.4	
96 4-Chlorotoluene	126	12.926	12.926	0.000	97	264868	150.0	137.1	
98 tert-Butylbenzene	119	13.152	13.152	0.000	94	843053	150.0	137.7	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	69	899351	150.0	135.2	
100 sec-Butylbenzene	105	13.329	13.329	0.000	96	1172331	150.0	136.1	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	93	468521	150.0	138.7	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	97	959240	150.0	134.3	
* 103 1,4-Dichlorobenzene-d4	152	13.487	13.487	0.000	3	21811	10.0	10.0	a
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	90	462135	150.0	136.6	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	98	909981	150.0	128.9	
101 Benzyl chloride	126	13.597	13.597	0.000	99	99894	150.0	137.9	
108 n-Butylbenzene	134	13.761	13.761	0.000	98	225734	150.0	127.7	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	94	456999	150.0	141.4	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.401	0.000	73	48962	150.0	140.7	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	94	314774	150.0	126.6	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	93	281340	150.0	133.7	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	94	177065	150.0	137.2	
112 Naphthalene	128	15.249	15.249	0.000	97	748640	150.0	130.5	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	93	281227	150.0	129.8	

### QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 15.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Injection Date: 01-Oct-2020 20:22:30

Instrument ID: TAC119

Lims ID: IC

Client ID:

Operator ID: cjb

ALS Bottle#: 10

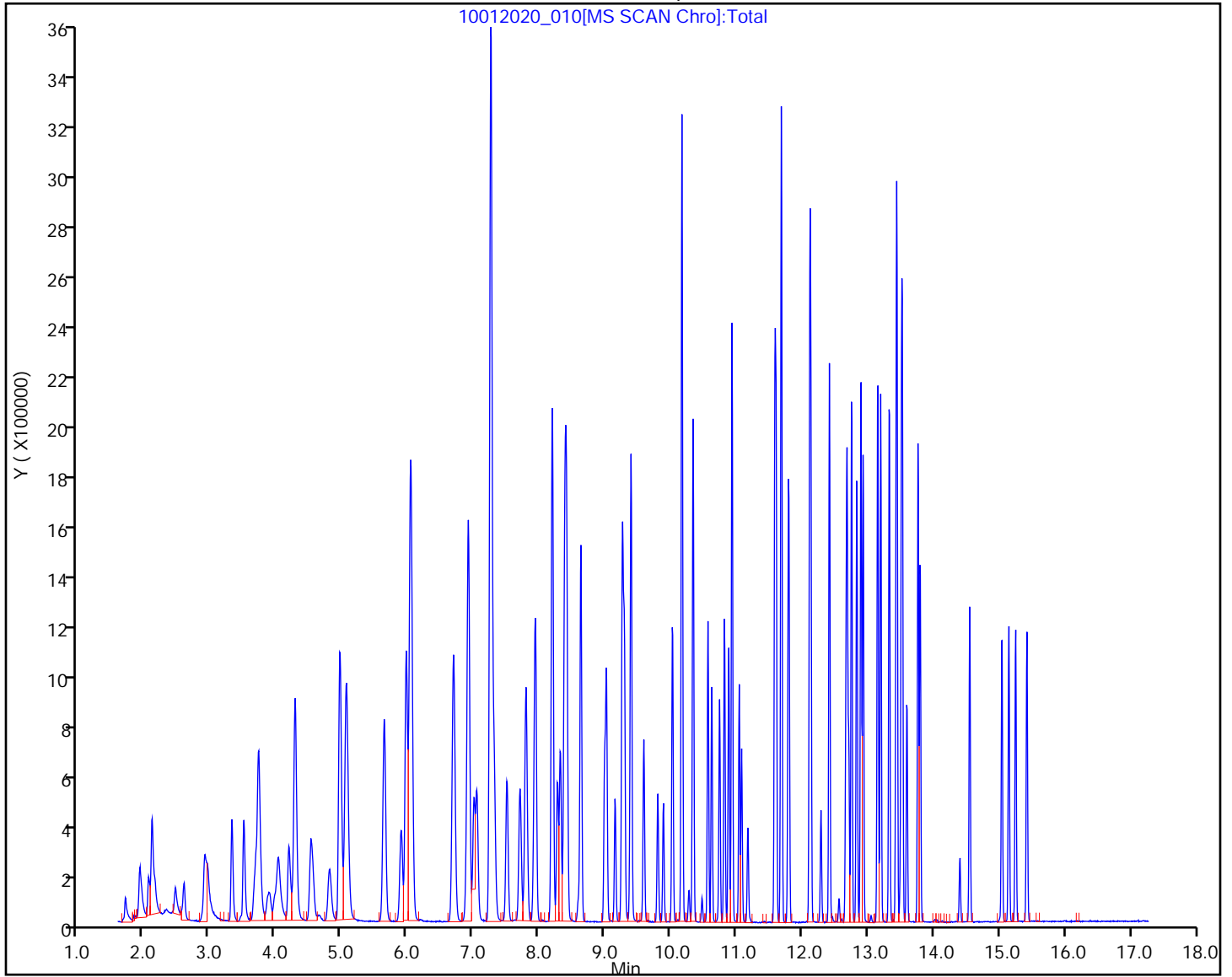
Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

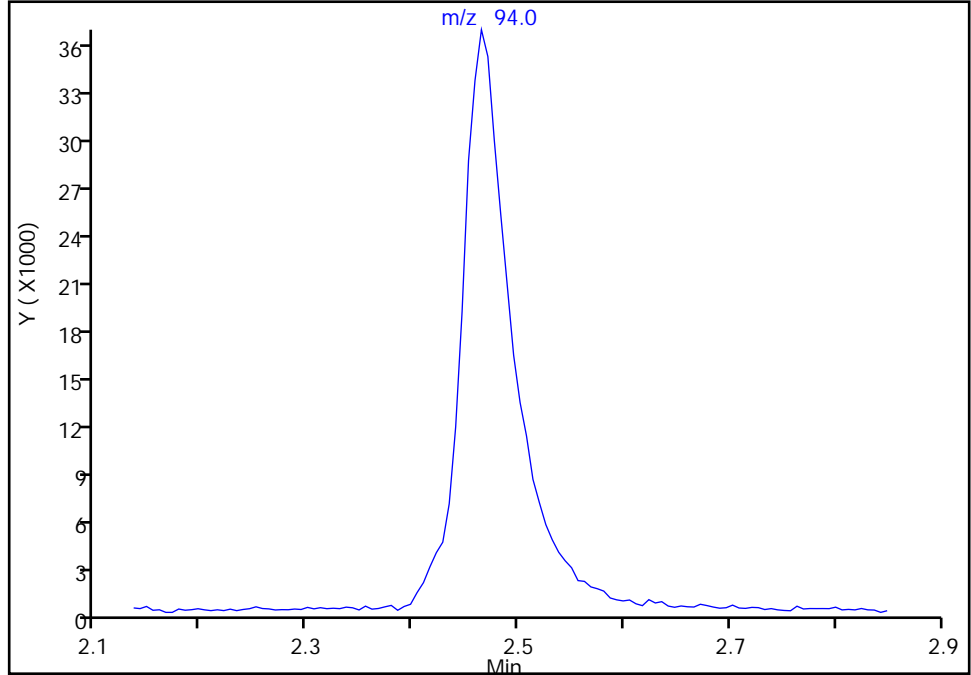
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Injection Date: 01-Oct-2020 20:22:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 10 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

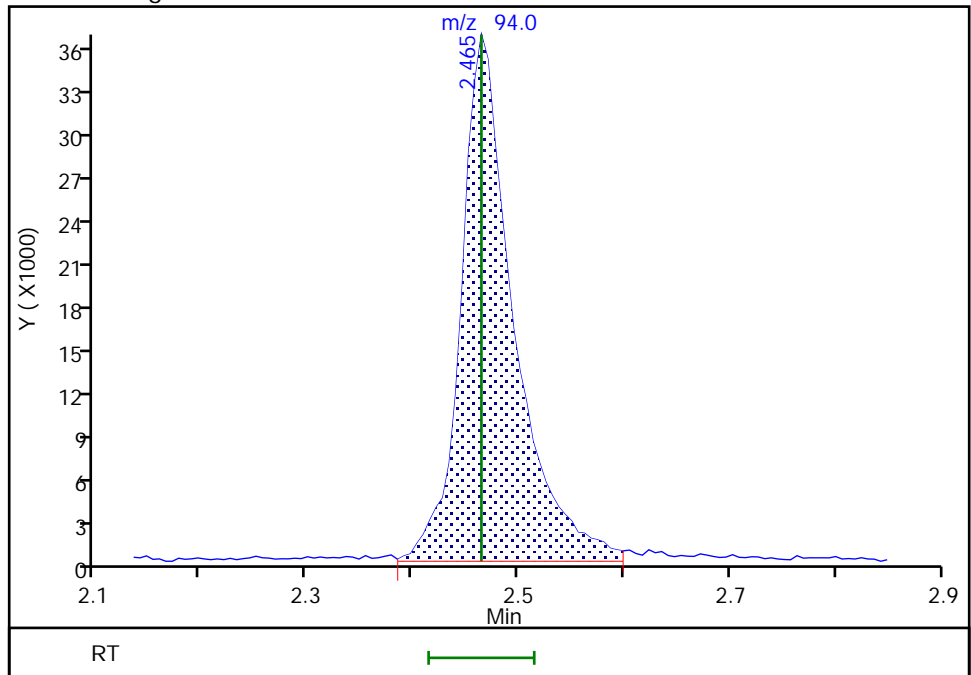
Not Detected  
Expected RT: 2.46

Processing Integration Results



Manual Integration Results

RT: 2.46  
Area: 125202  
Amount: 151.8020  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 13:28:26  
Audit Action: Assigned Compound ID



Eurofins TestAmerica, Seattle

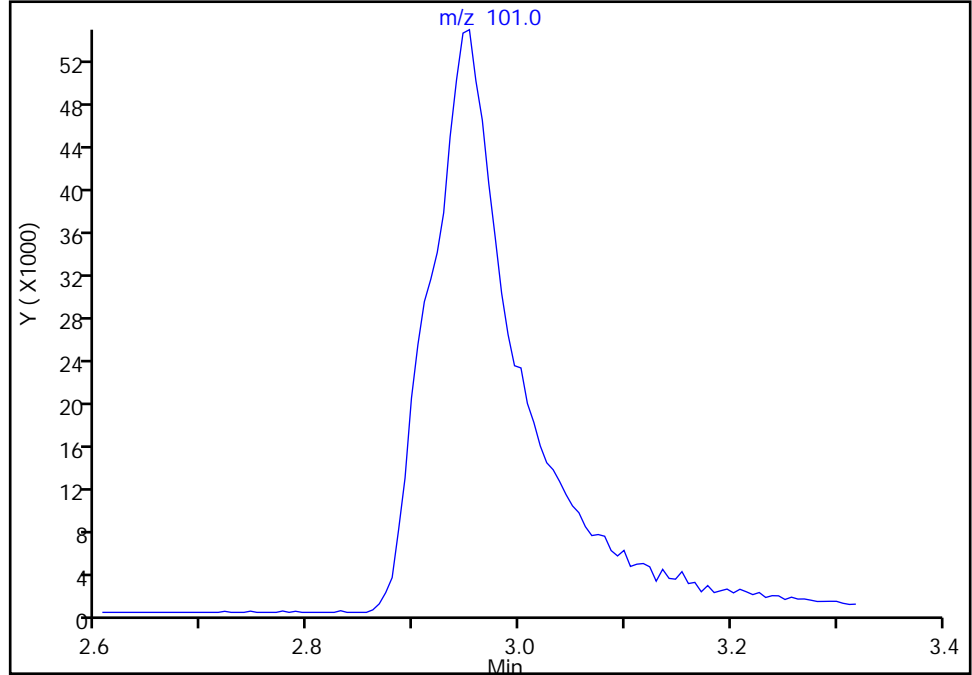
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Injection Date: 01-Oct-2020 20:22:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 10 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

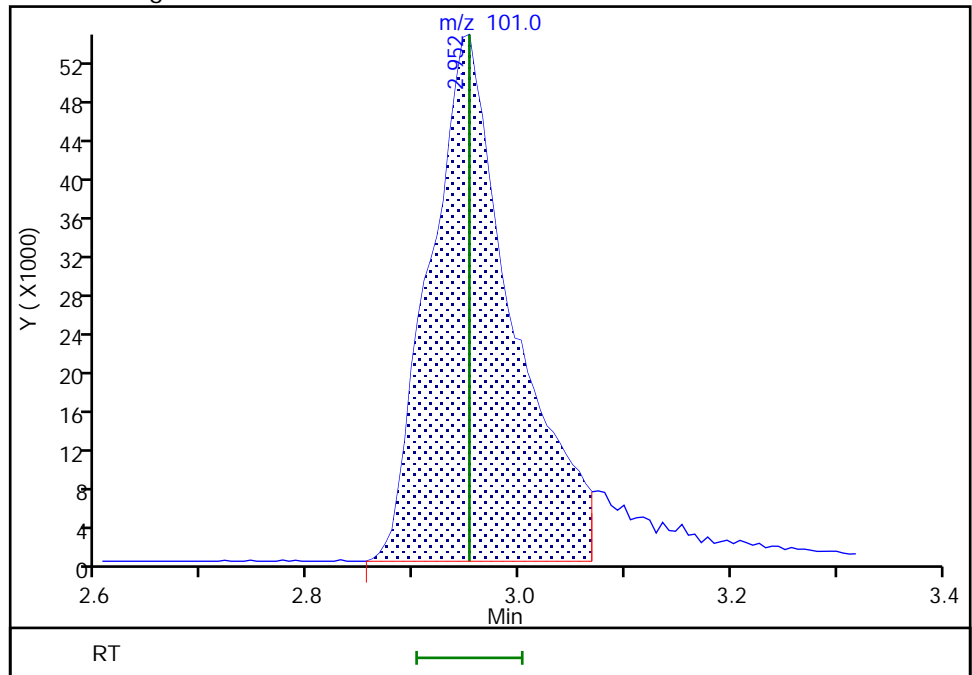
Not Detected  
Expected RT: 2.95

Processing Integration Results



Manual Integration Results

RT: 2.95  
Area: 298751  
Amount: 137.2751  
Amount Units: ug/L



Eurofins TestAmerica, Seattle

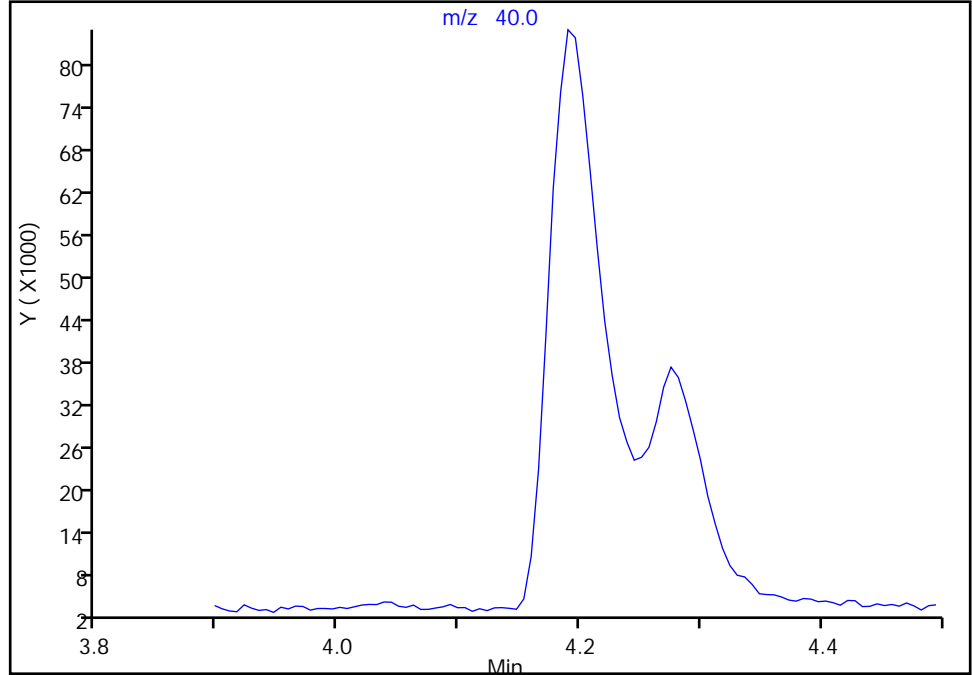
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 10 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

13 Acetonitrile, CAS: 75-05-8

Signal: 1

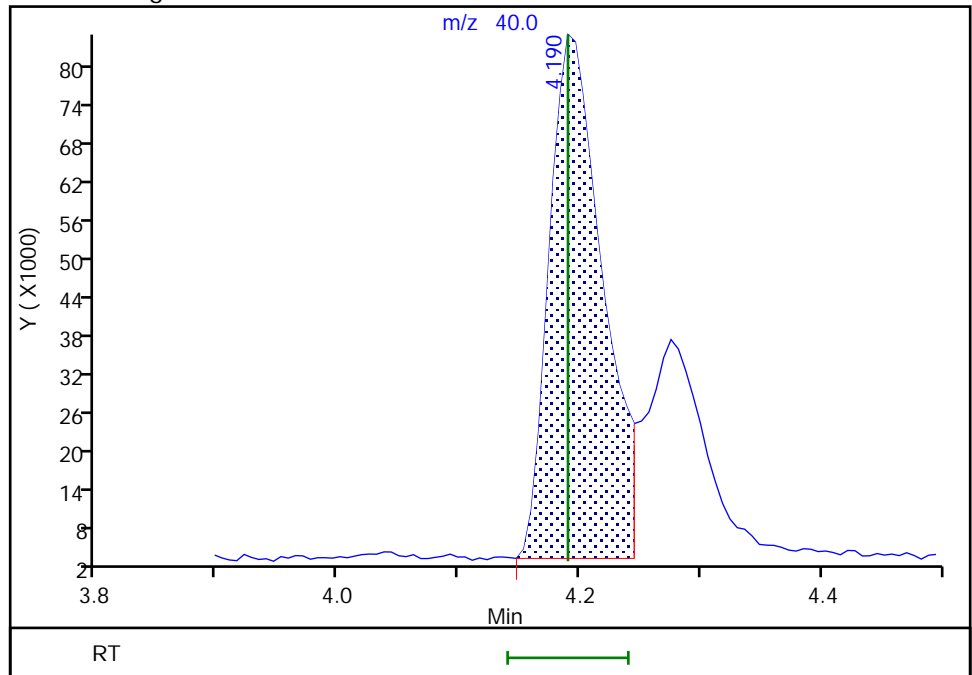
Not Detected  
Expected RT: 4.19

Processing Integration Results



Manual Integration Results

RT: 4.19  
Area: 253351  
Amount: 2091.0562  
Amount Units: ug/L



Eurofins TestAmerica, Seattle

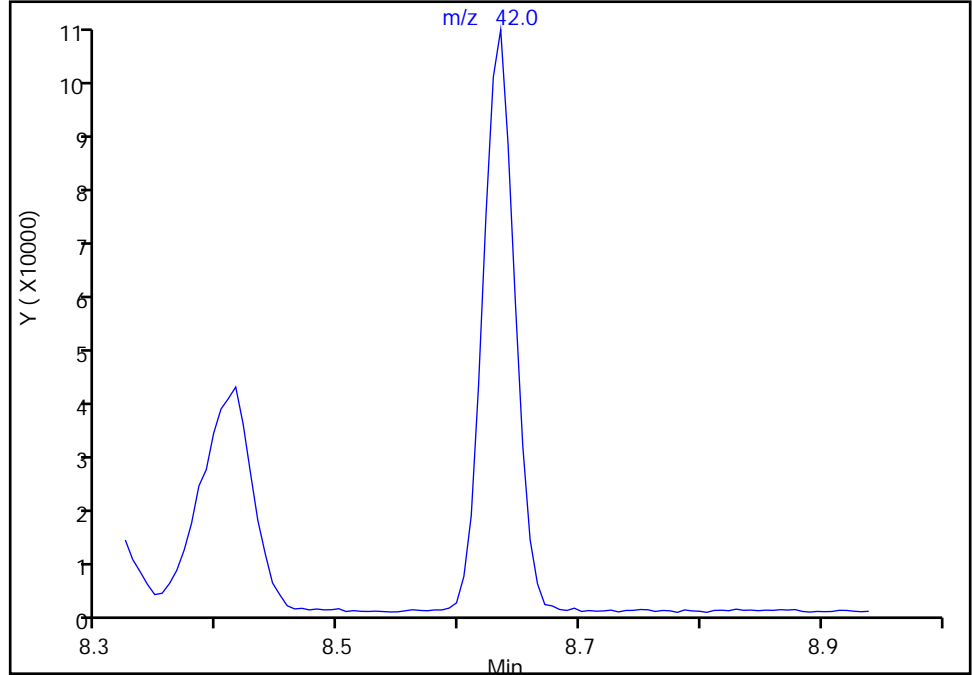
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Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 10 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

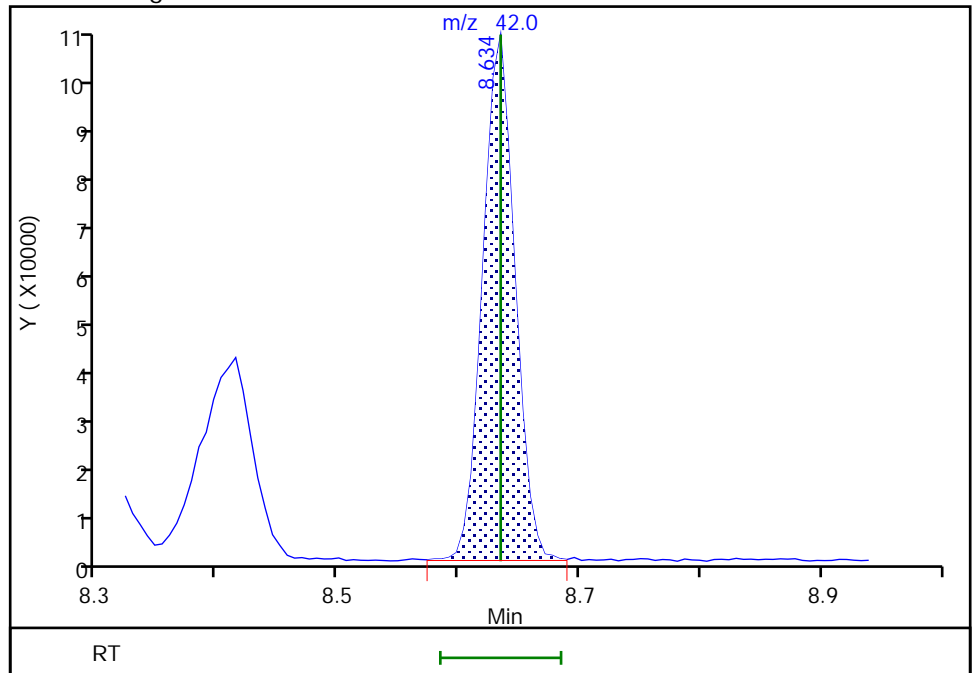
Not Detected  
Expected RT: 8.63

Processing Integration Results



RT: 8.63  
Area: 186874  
Amount: 302.0307  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:03:37  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Seattle

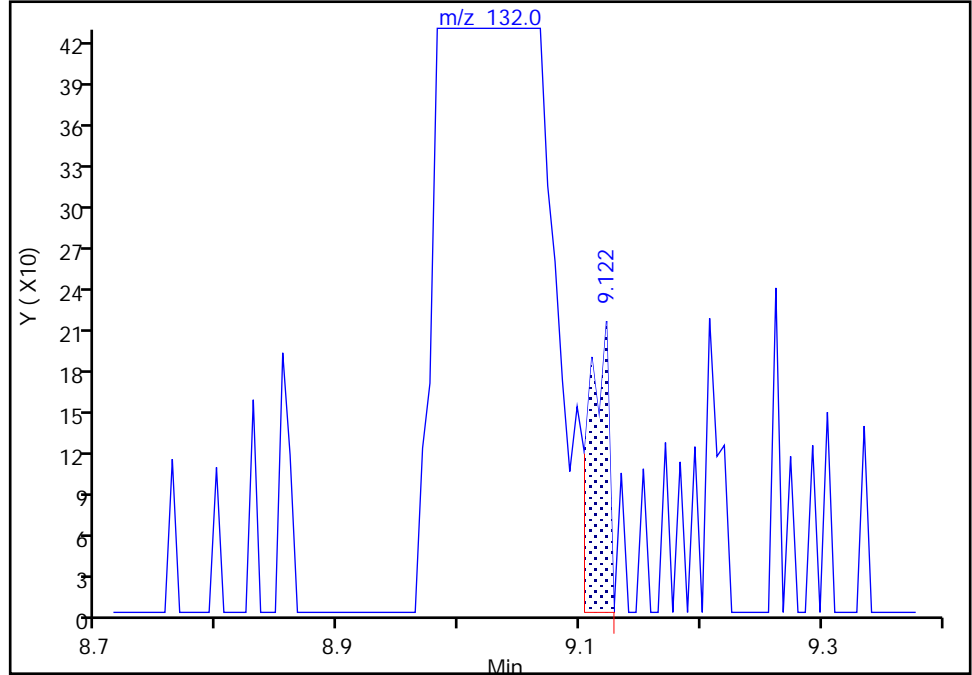
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Injection Date: 01-Oct-2020 20:22:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 10 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

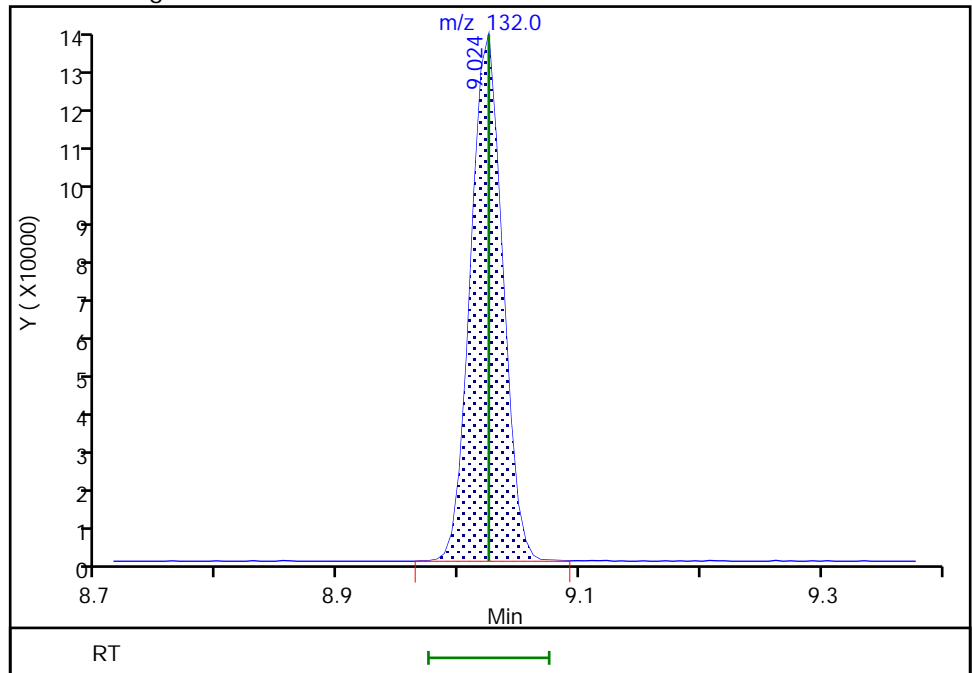
RT: 9.12  
Area: 238  
Amount: 0.342442  
Amount Units: ug/L

Processing Integration Results



RT: 9.02  
Area: 258631  
Amount: 137.1558  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

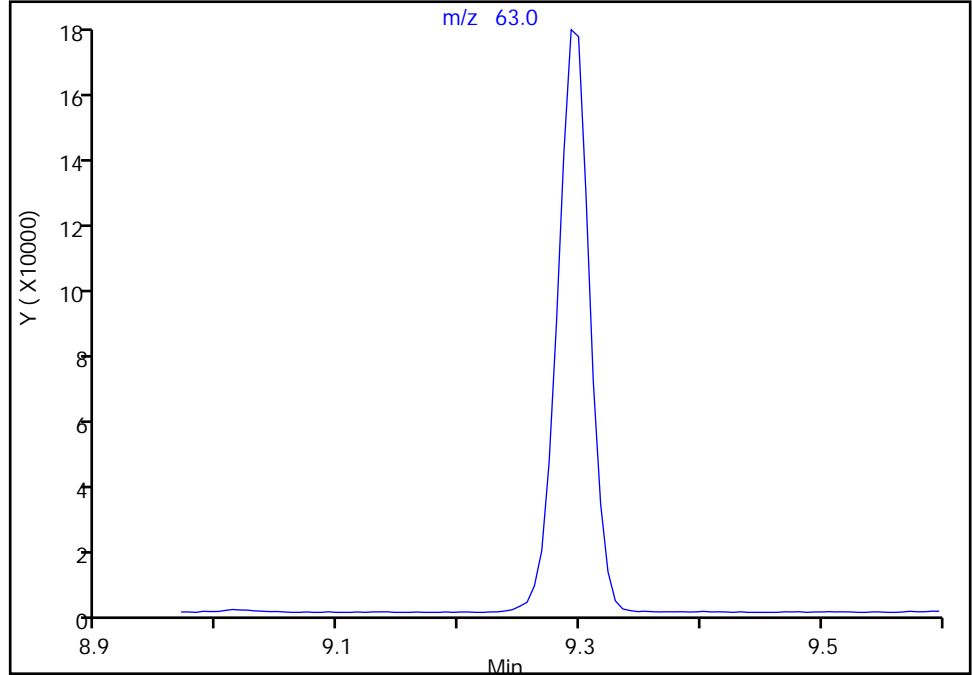
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Injection Date: 01-Oct-2020 20:22:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 10 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

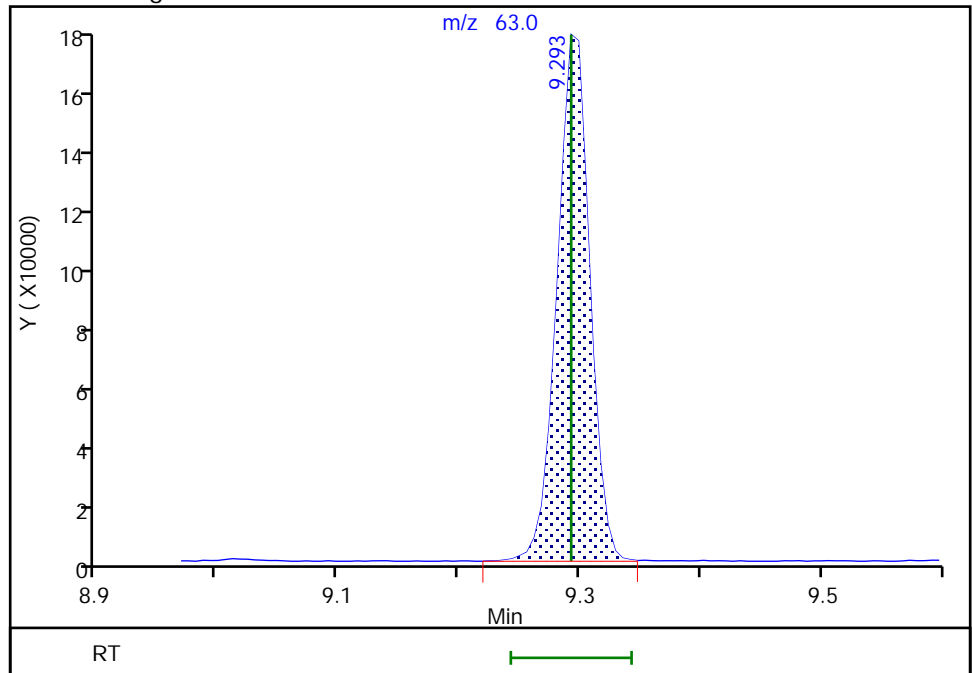
Not Detected  
Expected RT: 9.29

Processing Integration Results



RT: 9.29  
Area: 321698  
Amount: 145.3581  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

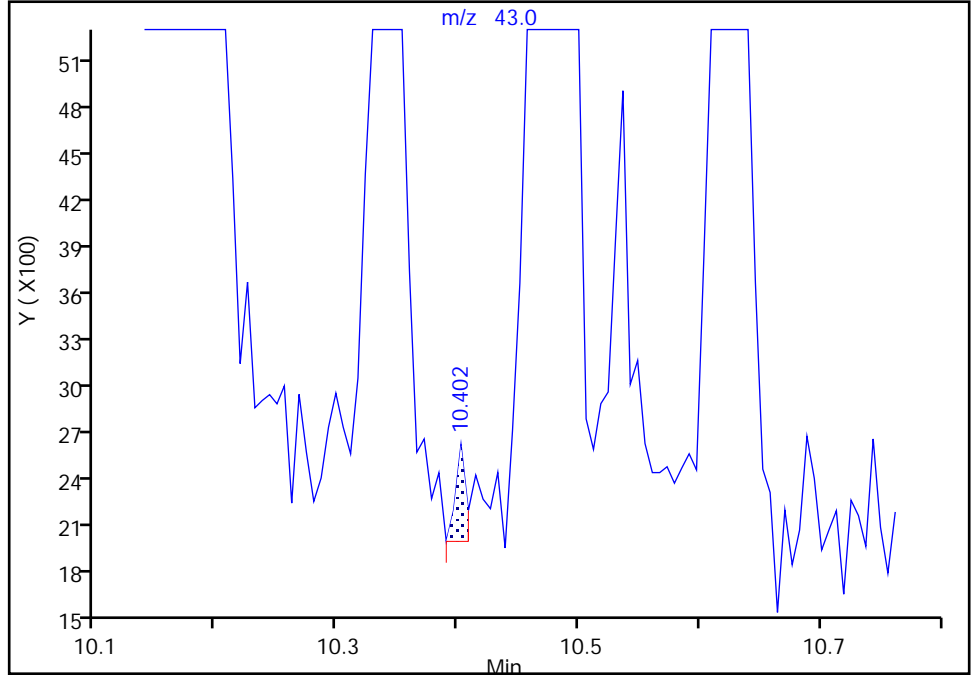
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
Injection Date: 01-Oct-2020 20:22:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 10 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

70 n-Butyl acetate, CAS: 123-86-4

Signal: 1

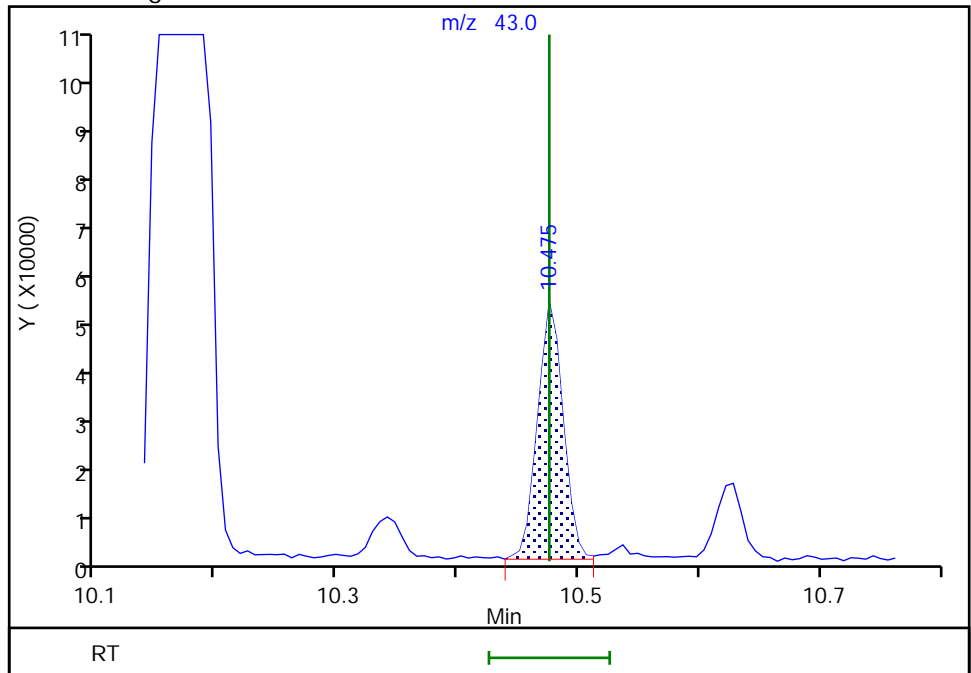
RT: 10.40  
Area: 368  
Amount: 0.564009  
Amount Units: ug/L

Processing Integration Results



RT: 10.48  
Area: 75797  
Amount: 151.9441  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:29:25  
Audit Action: Assigned Compound ID

Audit Reason: Baseline  
Page 502 of 974

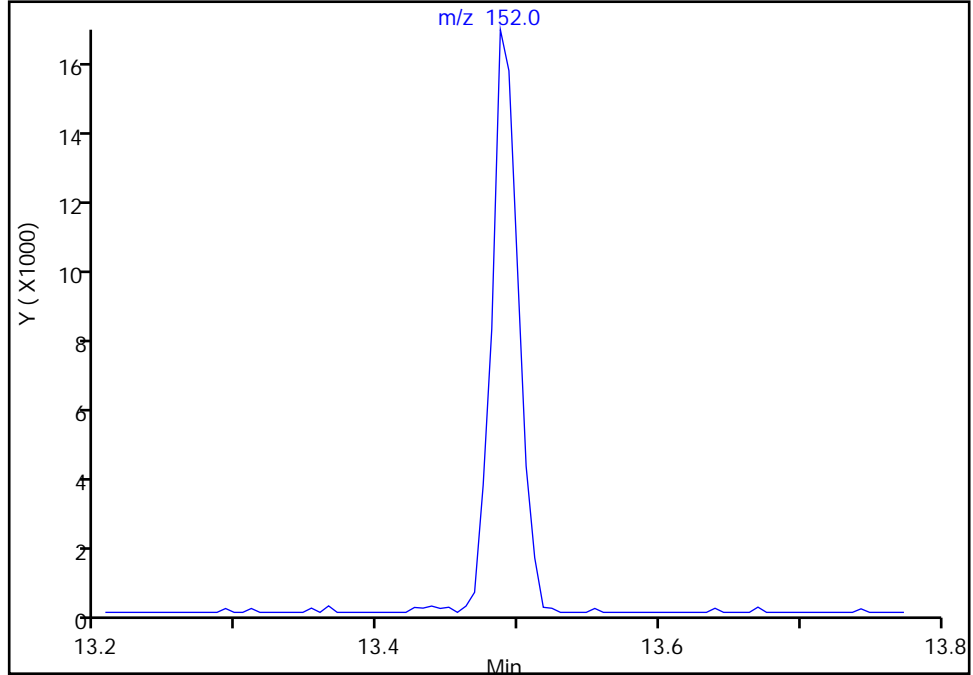
Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
Injection Date: 01-Oct-2020 20:22:30 Instrument ID: TAC119  
Lims ID: IC  
Client ID:  
Operator ID: cjb ALS Bottle#: 10 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

\* 103 1,4-Dichlorobenzene-d4, CAS: 3855-82-1  
Signal: 1

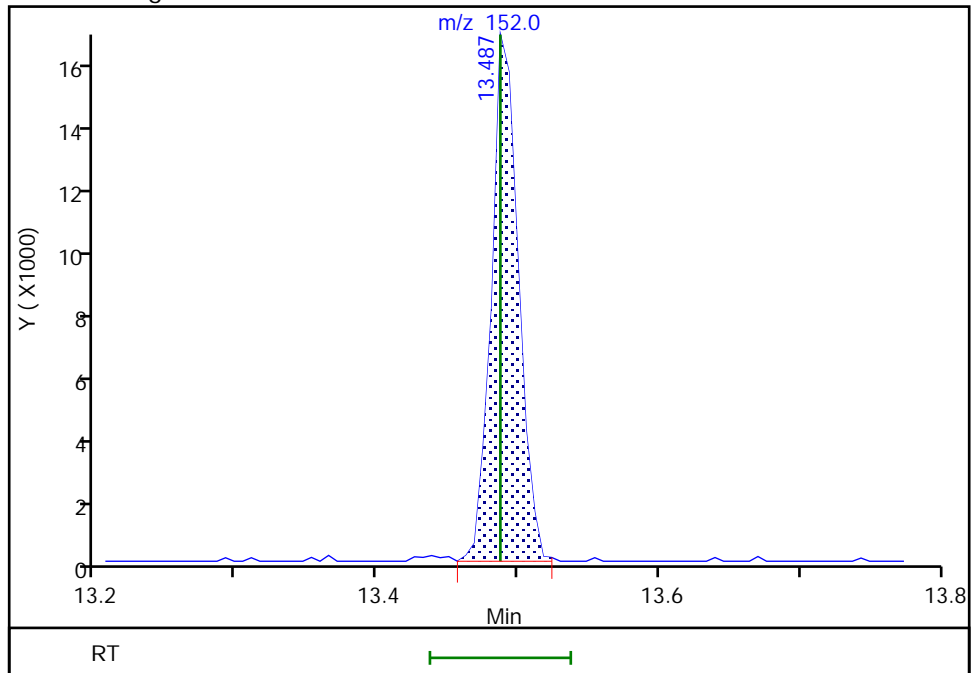
Not Detected  
Expected RT: 13.49

Processing Integration Results



RT: 13.49  
Area: 21811  
Amount: 10.000000  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 09:23:19  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 580-339812/13 Calibration Date: 10/01/2020 21:13

Instrument ID: TAC119 Calib Start Date: 10/01/2020 16:55

GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 10/01/2020 20:22

Lab File ID: 10012020\_012.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	Lin1		0.1216	0.1000	18.7	20.0	-6.4	30.0
Chloromethane	Ave	0.4358	0.4195	0.1000	19.2	20.0	-3.8	30.0
Vinyl chloride	Lin1		0.2602	0.1000	20.3	20.0	1.7	30.0
Butadiene	Ave	0.2722	0.2671		19.6	20.0	-1.8	30.0
Bromomethane	Lin1		0.1485	0.1000	23.9	20.0	19.3	30.0
Chloroethane	Lin1		0.1338	0.0600	23.2	20.0	16.2	30.0
Dichlorofluoromethane	Ave	0.3270	0.3706		22.7	20.0	13.3	30.0
Trichlorofluoromethane	Ave	0.3336	0.3146	0.1000	18.9	20.0	-5.7	30.0
3-Chloro-1-propene	Lin1		0.0080			20.0	-16.3	30.0
Ethyl ether	Ave	0.2914	0.2875		19.7	20.0	-1.3	30.0
Acrolein	Ave	0.0667	0.0644		116	120	-3.4	30.0
1,1-Dichloroethene	Ave	0.1624	0.1365	0.1000	16.8	20.0	-15.9	30.0
Acetone	Ave	0.1472	0.1555	0.0200		100	5.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1562	0.1405	0.1000	18.0	20.0	-10.1	30.0
Iodomethane	Ave	0.2956	0.2786		18.8	20.0	-5.8	30.0
Carbon disulfide	Ave	0.6145	0.6052	0.1000	19.7	20.0	-1.5	30.0
Isopropyl alcohol	Ave	1.024	0.8449			200	-17.4	30.0
Acetonitrile	Ave	0.0186	0.0173		232	250	-7.1	30.0
Methyl acetate	Lin1		0.2736	0.1000	37.6	40.0	-6.1	30.0
Methylene Chloride	Lin2		0.2323	0.1000		20.0	3.4	30.0
2-Methyl-2-propanol	Ave	0.0431	0.0395			200	-8.5	30.0
Acrylonitrile	Lin2		0.1206		188	200	-5.8	30.0
trans-1,2-Dichloroethene	Ave	0.2510	0.2261	0.1000	18.0	20.0	-9.9	30.0
Methyl tert-butyl ether	Lin1		0.6824	0.1000	18.7	20.0	-6.4	30.0
Hexane	Lin2		0.5947			20.0	-6.9	30.0
1,1-Dichloroethane	Ave	0.5880	0.5417	0.2000	18.4	20.0	-7.9	30.0
Vinyl acetate	Ave	0.0563	0.0481		42.7	50.0	-14.5	30.0
2-Chloro-1,3-butadiene	Ave	0.7324	0.6676		18.2	20.0	-8.9	30.0
Isopropyl ether	Ave	1.444	1.415		24.5	25.0	-2.0	30.0
Tert-butyl ethyl ether	Ave	0.3324	0.3015		22.7	25.0	-9.3	30.0
2,2-Dichloropropane	Ave	0.3929	0.3886		19.8	20.0	-1.1	30.0
cis-1,2-Dichloroethene	Ave	0.2818	0.2738	0.1000	19.4	20.0	-2.9	30.0
2-Butanone (MEK)	Ave	0.0305	0.0307	0.0200	101	100	0.6	30.0
Propionitrile	Ave	0.0490	0.0472		240	250	-3.8	30.0
Ethyl acetate	Ave	0.4105	0.3897		38.0	40.0	-5.1	30.0
Methacrylonitrile	Ave	0.1061	0.0979		185	200	-7.7	30.0
Chlorobromomethane	Ave	0.1672	0.1571		18.8	20.0	-6.0	30.0
Chloroform	Ave	0.5029	0.4377	0.2000	17.4	20.0	-13.0	30.0
1,1,1-Trichloroethane	Ave	0.4229	0.3974	0.1000	18.8	20.0	-6.0	30.0
Cyclohexane	Ave	0.3611	0.3332	0.1000	18.5	20.0	-7.7	30.0



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 580-339812/13 Calibration Date: 10/01/2020 21:13

Instrument ID: TAC119 Calib Start Date: 10/01/2020 16:55

GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 10/01/2020 20:22

Lab File ID: 10012020\_012.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
Carbon tetrachloride	Lin1		0.3597	0.1000	18.9	20.0	-5.3	30.0
1,1-Dichloropropene	Ave	0.3858	0.3325		17.2	20.0	-13.8	30.0
Benzene	Ave	1.056	0.9948	0.5000	18.8	20.0	-5.8	30.0
Isobutyl alcohol	Ave	0.7601	0.7020		462	500	-7.6	30.0
1,2-Dichloroethane	Ave	0.4957	0.4486	0.1000	18.1	20.0	-9.5	30.0
Tert-amyl methyl ether	Ave	0.7744	0.7401		23.9	25.0	-4.4	30.0
n-Heptane	Ave	0.7626	0.6931		18.2	20.0	-9.1	30.0
Tetrahydrofuran	Lin1		0.0902			40.0	-7.8	30.0
Trichloroethene	Ave	0.2890	0.2554	0.2000	17.7	20.0	-11.6	30.0
Ethyl acrylate	Ave	0.5523	0.4796		17.4	20.0	-13.2	30.0
Methylcyclohexane	Ave	0.4719	0.4176	0.1000	17.7	20.0	-11.5	30.0
n-Butanol	Ave	0.0077	0.0067			500	-13.5	30.0
1,2-Dichloropropane	Ave	0.3392	0.3170	0.1000	18.7	20.0	-6.5	30.0
Dibromomethane	Ave	0.1493	0.1504		20.1	20.0	0.7	30.0
Methyl methacrylate	Ave	0.1773	0.1657			40.0	-6.6	30.0
Dichlorobromomethane	Ave	0.3941	0.3692	0.2000	18.7	20.0	-6.3	30.0
2-Nitropropane	Ave	0.1851	0.1597		34.5	40.0	-13.7	30.0
2-Chloroethyl vinyl ether	Lin2		0.1825		19.7	20.0	-1.5	30.0
cis-1,3-Dichloropropene	Ave	0.5881	0.5318	0.2000	18.1	20.0	-9.6	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1673	0.1558	0.0600	93.1	100	-6.9	30.0
Toluene	Ave	1.550	1.359	0.4000	17.5	20.0	-12.3	30.0
n-Butyl acetate	Lin1		0.0905			20.0	-11.0	30.0
trans-1,3-Dichloropropene	Ave	0.5369	0.4816	0.1000	17.9	20.0	-10.3	30.0
Ethyl methacrylate	Ave	0.4045	0.3636		18.0	20.0	-10.1	30.0
1,1,2-Trichloroethane	Lin2		0.2766	0.1000	20.0	20.0	-0.0	30.0
Tetrachloroethene	Ave	0.6896	0.6034	0.2000	17.5	20.0	-12.5	30.0
1,3-Dichloropropane	Ave	0.4971	0.4613		18.6	20.0	-7.2	30.0
2-Hexanone	Ave	0.1640	0.1615	0.0600	98.5	100	-1.5	30.0
Chlorodibromomethane	Ave	0.3619	0.3506	0.1000	19.4	20.0	-3.1	30.0
Ethylene Dibromide	Lin1		0.2564	0.1000	18.7	20.0	-6.4	30.0
Chlorobenzene	Ave	0.9682	0.9104	0.5000	18.8	20.0	-6.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3708	0.3343		18.0	20.0	-9.8	30.0
Ethylbenzene	Lin2		1.510	0.1000	19.2	20.0	-4.1	30.0
m-Xylene & p-Xylene	Ave	1.408	1.195	0.1000	17.0	20.0	-15.1	30.0
o-Xylene	Lin2		1.197	0.3000	18.6	20.0	-7.0	30.0
Styrene	Ave	0.9382	0.9259	0.3000	19.7	20.0	-1.3	30.0
Bromoform	Ave	0.2162	0.2076	0.1000	19.2	20.0	-4.0	30.0
Isopropylbenzene	Ave	1.592	1.441	0.1000	18.1	20.0	-9.5	30.0
1,1,2,2-Tetrachloroethane	Lin1		0.7163	0.3000	19.2	20.0	-4.0	30.0
Bromobenzene	Ave	0.8548	0.7735		18.1	20.0	-9.5	30.0
trans-1,4-Dichloro-2-butene	Lin2		0.3717			20.0	-5.1	30.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-339812/13 Calibration Date: 10/01/2020 21:13  
 Instrument ID: TAC119 Calib Start Date: 10/01/2020 16:55  
 GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 10/01/2020 20:22  
 Lab File ID: 10012020\_012.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
1,2,3-Trichloropropane	Ave	0.2424	0.2194		18.1	20.0	-9.5	30.0
N-Propylbenzene	Ave	4.225	3.688		17.5	20.0	-12.7	30.0
2-Chlorotoluene	Ave	0.8512	0.7506		17.6	20.0	-11.8	30.0
1,3,5-Trimethylbenzene	Ave	3.054	2.690		17.6	20.0	-11.9	30.0
4-Chlorotoluene	Ave	0.8857	0.7431		16.8	20.0	-16.1	30.0
tert-Butylbenzene	Ave	2.806	2.548		18.2	20.0	-9.2	30.0
1,2,4-Trimethylbenzene	Ave	3.050	2.696		17.7	20.0	-11.6	30.0
sec-Butylbenzene	Ave	3.948	3.560		18.0	20.0	-9.8	30.0
1,3-Dichlorobenzene	Ave	1.548	1.356	0.6000	17.5	20.0	-12.4	30.0
4-Isopropyltoluene	Ave	3.275	2.930		17.9	20.0	-10.5	30.0
1,4-Dichlorobenzene	Ave	1.551	1.358	0.5000	17.5	20.0	-12.4	30.0
1,2,3-Trimethylbenzene	Ave	3.237	2.823		17.4	20.0	-12.8	30.0
Benzyl chloride	Ave	0.3320	0.3087		18.6	20.0	-7.0	30.0
n-Butylbenzene	Ave	0.8108	0.6684		16.5	20.0	-17.6	30.0
1,2-Dichlorobenzene	Ave	1.481	1.343	0.4000	18.1	20.0	-9.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1595	0.1510	0.0500	18.9	20.0	-5.4	30.0
1,3,5-Trichlorobenzene	Ave	1.140	0.9303		16.3	20.0	-18.4	30.0
1,2,4-Trichlorobenzene	Ave	0.9648	0.8662	0.2000	18.0	20.0	-10.2	30.0
Hexachlorobutadiene	Ave	0.5918	0.5279		17.8	20.0	-10.8	30.0
Naphthalene	Ave	2.629	2.367		18.0	20.0	-10.0	30.0
1,2,3-Trichlorobenzene	Ave	0.9932	0.9192		18.5	20.0	-7.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2661	0.2670		10.0	10.0	0.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3624	0.3628		10.0	10.0	0.1	30.0
Toluene-d8 (Surr)	Ave	1.257	1.218		9.69	10.0	-3.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3613	0.3748		10.4	10.0	3.7	30.0

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_012.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 01-Oct-2020 21:13:30 ALS Bottle#: 12 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: icv  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist:

Method: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 02-Oct-2020 11:00:20 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1029

First Level Reviewer: jantanuc Date: 02-Oct-2020 13:34:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.703	1.703	0.000	83	15830	20.0	18.7	
4 Chloromethane	50	1.922	1.928	-0.006	81	54602	20.0	19.2	
5 Vinyl chloride	62	2.050	2.056	-0.006	80	33865	20.0	20.3	
6 Butadiene	54	2.111	2.111	0.000	91	34773	20.0	19.6	
7 Bromomethane	94	2.459	2.465	-0.006	86	19330	20.0	23.9	M
8 Chloroethane	66	2.599	2.599	0.000	90	6194	20.0	23.2	
10 Dichlorofluoromethane	67	2.910	2.910	0.000	80	48245	20.0	22.7	M
14 Trichlorofluoromethane	101	2.959	2.952	0.007	91	40952	20.0	18.9	M
11 3-Chloro-1-propene	76	2.965	2.965	0.000	47	850	20.0	16.7	
17 Ethyl ether	59	3.324	3.324	0.000	96	37425	20.0	19.7	
12 Acrolein	56	3.507	3.507	0.000	91	50323	120.0	116.0	
19 1,1-Dichloroethene	96	3.684	3.684	0.000	79	17767	20.0	16.8	M
16 Acetone	43	3.739	3.733	0.006	92	101207	100.0	105.6	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.751	3.745	0.006	39	18282	20.0	18.0	M
22 Iodomethane	142	3.897	3.891	0.006	96	36260	20.0	18.8	M
26 Carbon disulfide	76	4.019	4.013	0.006	94	78772	20.0	19.7	
15 Isopropyl alcohol	45	4.044	4.038	0.006	89	33688	200.0	165.1	
13 Acetonitrile	40	4.196	4.190	0.006	100	28083	250.0	232.4	M
24 Methyl acetate	43	4.300	4.294	0.006	99	71218	40.0	37.6	
23 Methylene Chloride	84	4.531	4.531	0.000	86	30237	20.0	20.7	M
* 18 TBA-d9 (IS)	65	4.641	4.647	-0.006	0	39870	200.0	200.0	
20 2-Methyl-2-propanol	59	4.806	4.812	-0.006	93	51350	200.0	183.0	
21 Acrylonitrile	53	4.964	4.964	0.000	99	156924	200.0	188.4	
27 trans-1,2-Dichloroethene	96	5.062	5.062	0.000	74	29429	20.0	18.0	
28 Methyl tert-butyl ether	73	5.068	5.068	0.000	83	88830	20.0	18.7	
34 Hexane	57	5.635	5.641	-0.006	96	77413	20.0	18.6	
30 1,1-Dichloroethane	63	5.897	5.903	-0.006	85	70509	20.0	18.4	
31 Vinyl acetate	86	5.982	5.976	0.006	97	15662	50.0	42.7	
32 2-Chloro-1,3-butadiene	53	6.031	6.037	-0.006	64	86894	20.0	18.2	
35 Isopropyl ether	45	6.049	6.049	0.000	95	230160	25.0	24.5	
41 Tert-butyl ethyl ether	87	6.690	6.696	-0.006	96	49050	25.0	22.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.903	6.915	-0.012	72	50577	20.0	19.8	M
33 2-Butanone (MEK)	72	6.927	6.921	0.006	96	19975	100.0	100.6	
37 cis-1,2-Dichloroethene	96	6.915	6.927	-0.012	60	35635	20.0	19.4	
29 Propionitrile	54	7.007	7.007	0.000	85	76729	250.0	240.4	
38 Ethyl acetate	43	7.049	7.049	0.000	98	101455	40.0	38.0	
36 Methacrylonitrile	67	7.263	7.263	0.000	97	127465	200.0	184.7	
39 Chlorobromomethane	130	7.299	7.305	-0.006	62	20452	20.0	18.8	
40 Chloroform	83	7.506	7.506	0.000	80	56976	20.0	17.4	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	91	51729	20.0	18.8	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.732	0.006	58	17380	10.0	10.0	
51 Cyclohexane	84	7.793	7.799	-0.006	94	43374	20.0	18.5	
52 Carbon tetrachloride	117	7.927	7.927	0.000	79	46822	20.0	18.9	
50 1,1-Dichloropropene	75	7.939	7.945	-0.006	75	43282	20.0	17.2	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	23613	10.0	10.0	
53 Benzene	78	8.195	8.195	0.000	91	129481	20.0	18.8	
42 Isobutyl alcohol	43	8.201	8.201	0.000	74	69976	500.0	461.8	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	86	58398	20.0	18.1	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	82	120417	25.0	23.9	
* 55 Fluorobenzene (IS)	96	8.592	8.598	-0.006	96	65082	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.634	0.000	37	23481	40.0	36.9	Ma
56 n-Heptane	43	8.628	8.634	-0.006	94	90218	20.0	18.2	
61 Trichloroethene	132	9.018	9.024	-0.006	89	33249	20.0	17.7	a
57 Ethyl acrylate	55	9.152	9.153	0.000	97	62424	20.0	17.4	
49 n-Butanol	56	9.262	9.262	0.000	48	21706	500.0	432.7	
66 Methylcyclohexane	83	9.262	9.268	-0.006	90	54354	20.0	17.7	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	77	41268	20.0	18.7	a
59 Dibromomethane	174	9.390	9.390	0.000	39	19571	20.0	20.1	
63 Methyl methacrylate	69	9.396	9.396	0.000	83	43131	40.0	37.4	
62 Dichlorobromomethane	83	9.591	9.591	0.000	88	48062	20.0	18.7	
58 2-Nitropropane	43	9.805	9.805	0.000	97	41564	40.0	34.5	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	85	19320	20.0	19.7	
67 cis-1,3-Dichloropropene	75	10.024	10.030	-0.006	76	56296	20.0	18.1	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	98	82444	100.0	93.1	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.280	-0.006	96	64478	10.0	9.69	
74 Toluene	91	10.341	10.341	0.000	95	143840	20.0	17.5	
70 n-Butyl acetate	43	10.475	10.475	0.000	82	9578	20.0	17.8	a
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	84	50978	20.0	17.9	
73 Ethyl methacrylate	69	10.622	10.628	-0.006	85	38492	20.0	18.0	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	89	29275	20.0	20.0	
79 Tetrachloroethene	164	10.817	10.817	0.000	86	27926	20.0	17.5	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	87	48831	20.0	18.6	
76 2-Hexanone	58	10.933	10.933	0.000	94	85493	100.0	98.5	
77 Chlorodibromomethane	129	11.079	11.079	0.000	86	37110	20.0	19.4	
78 Ethylene Dibromide	107	11.170	11.177	-0.006	97	27138	20.0	18.7	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	87	52927	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	89	96370	20.0	18.8	
80 1,1,1,2-Tetrachloroethane	131	11.682	11.683	0.000	41	35392	20.0	18.0	
83 Ethylbenzene	91	11.682	11.683	0.000	98	159892	20.0	19.2	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	126473	20.0	17.0	
88 o-Xylene	91	12.115	12.115	0.000	94	126711	20.0	18.6	
86 Styrene	104	12.127	12.134	-0.007	88	98012	20.0	19.7	
85 Bromoform	173	12.286	12.286	0.000	92	21970	20.0	19.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
91 Isopropylbenzene	105	12.414	12.414	0.000	97	152493	20.0	18.1	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	84	19837	10.0	10.4	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	88	33148	20.0	19.2	
93 Bromobenzene	156	12.682	12.682	0.000	90	35798	20.0	18.1	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	57	17200	20.0	19.0	
90 1,2,3-Trichloropropane	110	12.707	12.713	-0.006	35	10152	20.0	18.1	
94 N-Propylbenzene	91	12.749	12.749	0.000	89	170679	20.0	17.5	
95 2-Chlorotoluene	126	12.829	12.835	-0.006	94	34738	20.0	17.6	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	96	124482	20.0	17.6	
96 4-Chlorotoluene	126	12.926	12.926	0.000	95	34389	20.0	16.8	
98 tert-Butylbenzene	119	13.152	13.152	0.000	94	117920	20.0	18.2	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	66	124760	20.0	17.7	
100 sec-Butylbenzene	105	13.322	13.329	-0.007	95	164760	20.0	18.0	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	87	62775	20.0	17.5	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	98	135584	20.0	17.9	
* 103 1,4-Dichlorobenzene-d4	152	13.487	13.487	0.000	47	23139	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	90	62847	20.0	17.5	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	98	130664	20.0	17.4	
101 Benzyl chloride	126	13.591	13.597	-0.006	98	14287	20.0	18.6	
108 n-Butylbenzene	134	13.761	13.761	0.000	97	30930	20.0	16.5	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	90	62167	20.0	18.1	
109 1,2-Dibromo-3-Chloropropane	157	14.395	14.401	-0.006	67	6987	20.0	18.9	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	94	43051	20.0	16.3	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	91	40088	20.0	18.0	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	92	24430	20.0	17.8	
112 Naphthalene	128	15.249	15.249	0.000	98	109537	20.0	18.0	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	93	42539	20.0	18.5	
\$ 118 BFB	95	12.560	12.560	0.000	84	24546	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterSEC\_00052

Amount Added: 2.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_012.D

Injection Date: 01-Oct-2020 21:13:30

Instrument ID: TAC119

Lims ID: ICV

Client ID:

Operator ID: cjb

ALS Bottle#: 12

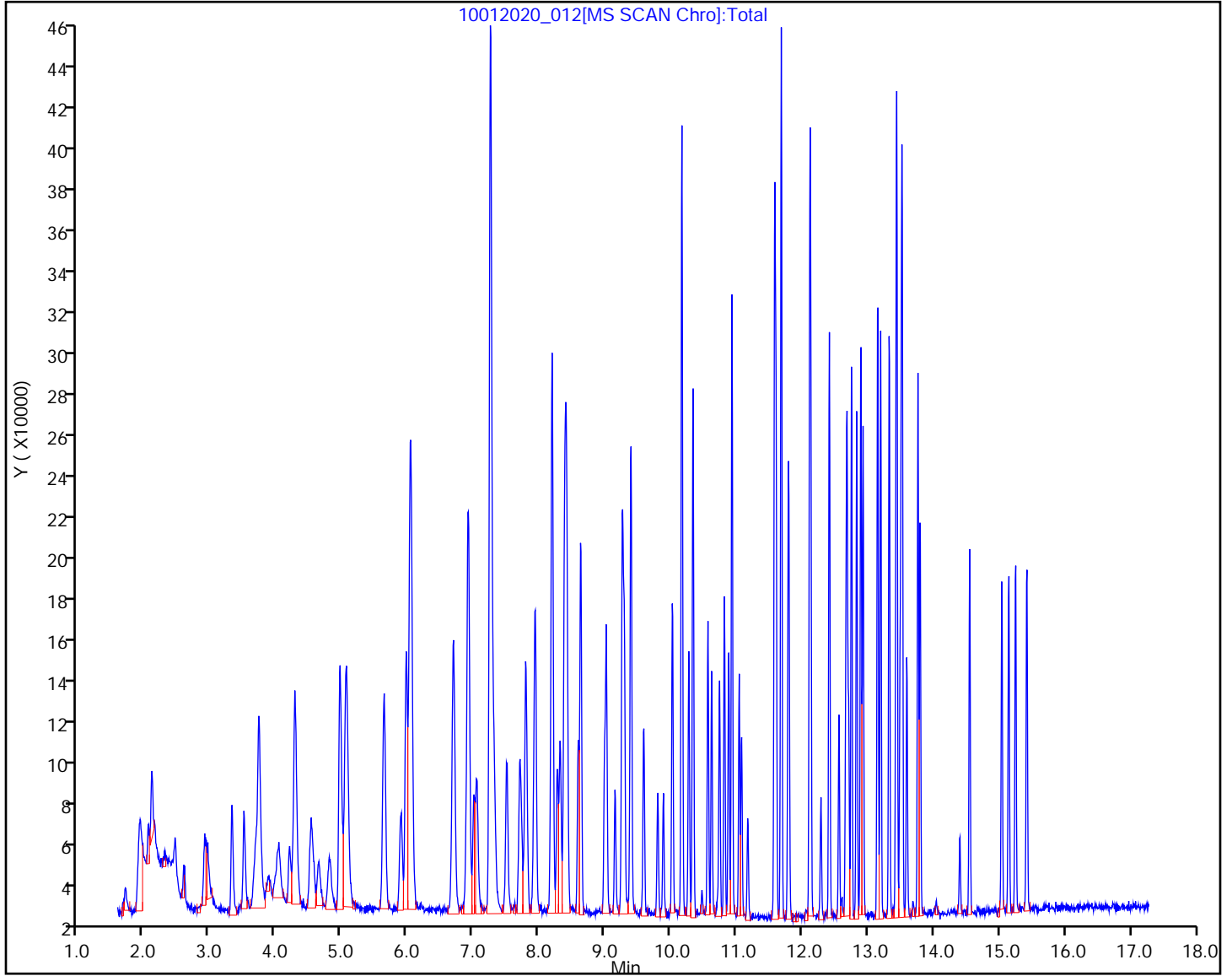
Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

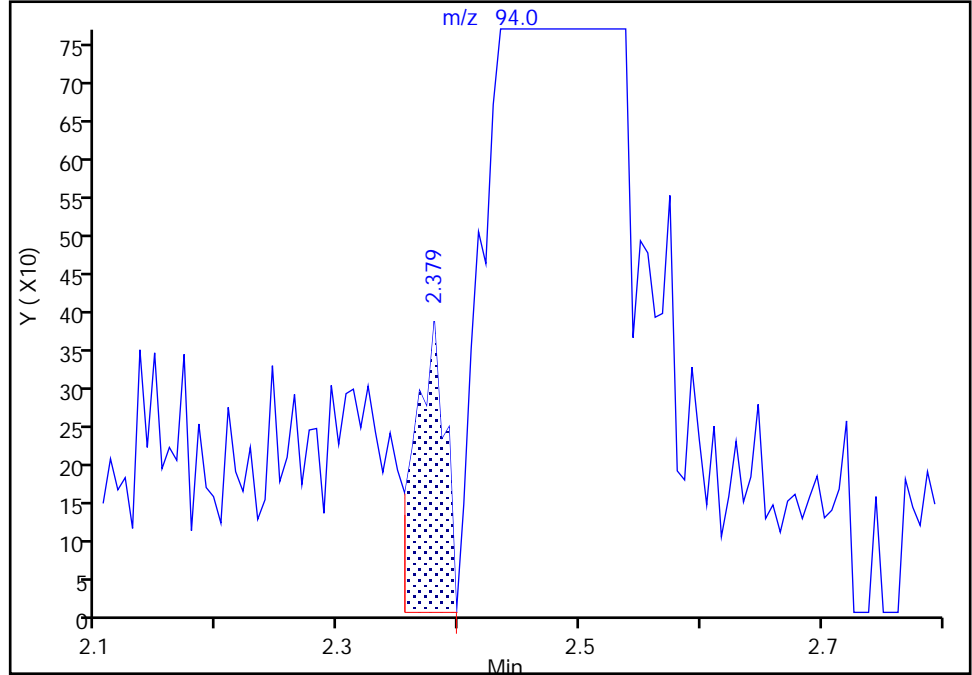
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Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

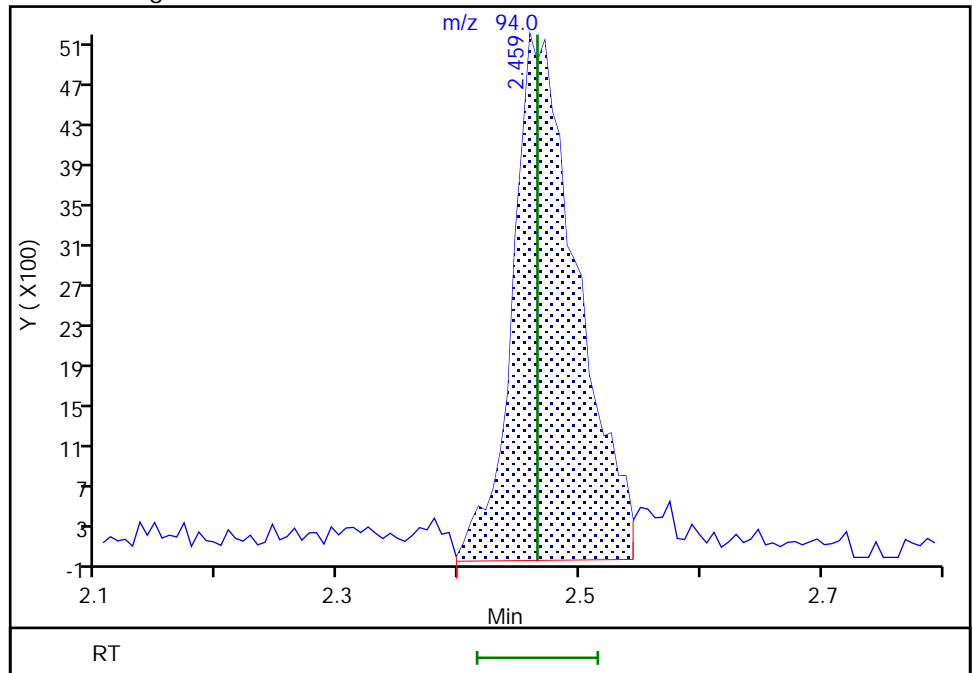
RT: 2.38  
Area: 656  
Amount: 1.234887  
Amount Units: ug/L

Processing Integration Results



RT: 2.46  
Area: 19330  
Amount: 23.869009  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

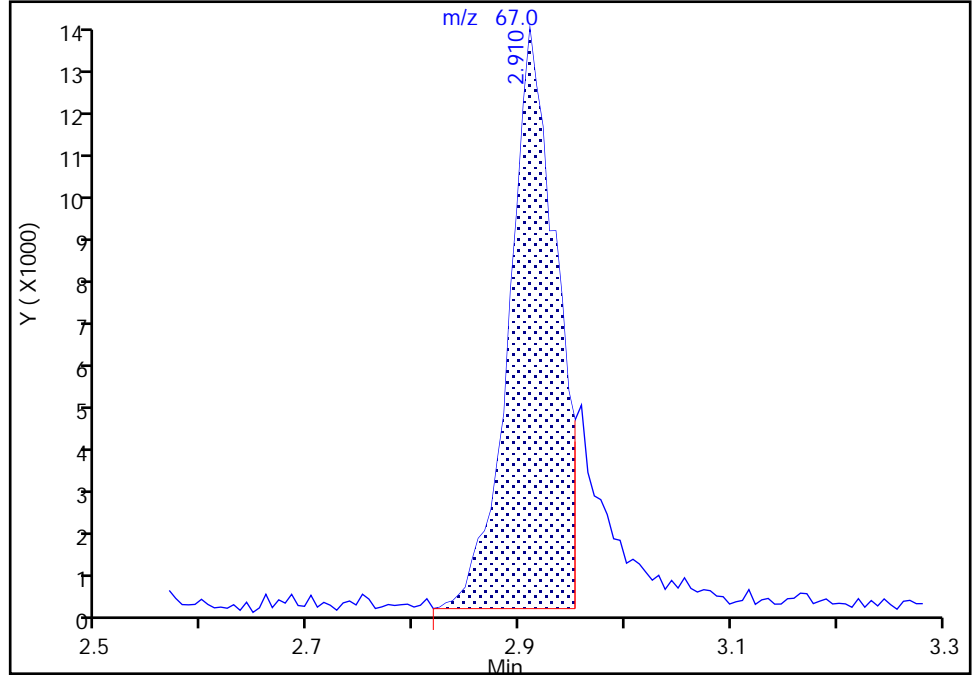
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Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

10 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

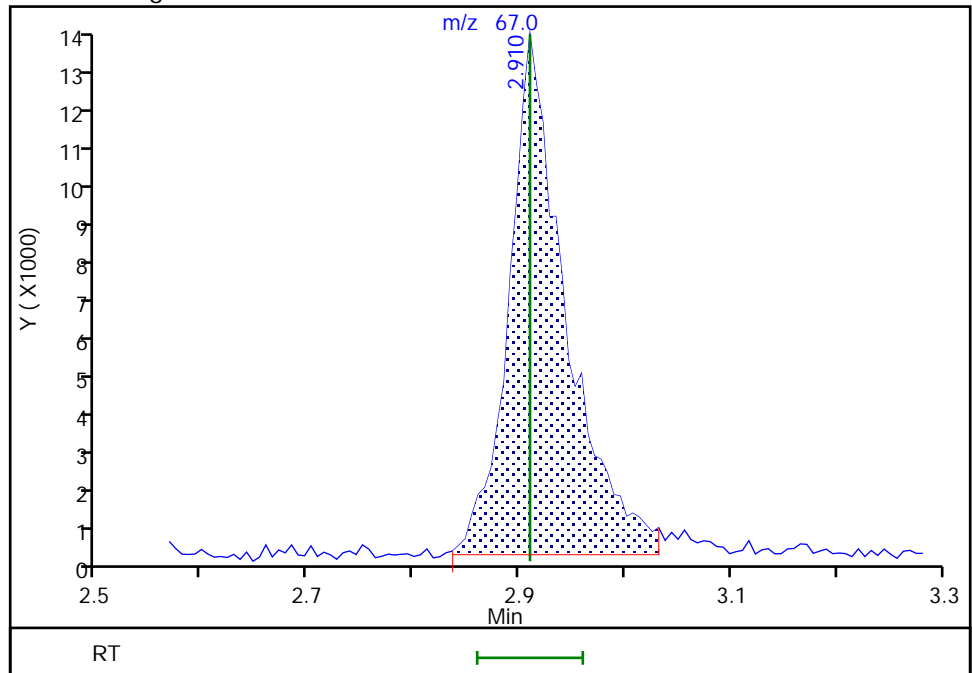
RT: 2.91  
Area: 40776  
Amount: 21.408134  
Amount Units: ug/L

Processing Integration Results



RT: 2.91  
Area: 48245  
Amount: 22.667000  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:30:18  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

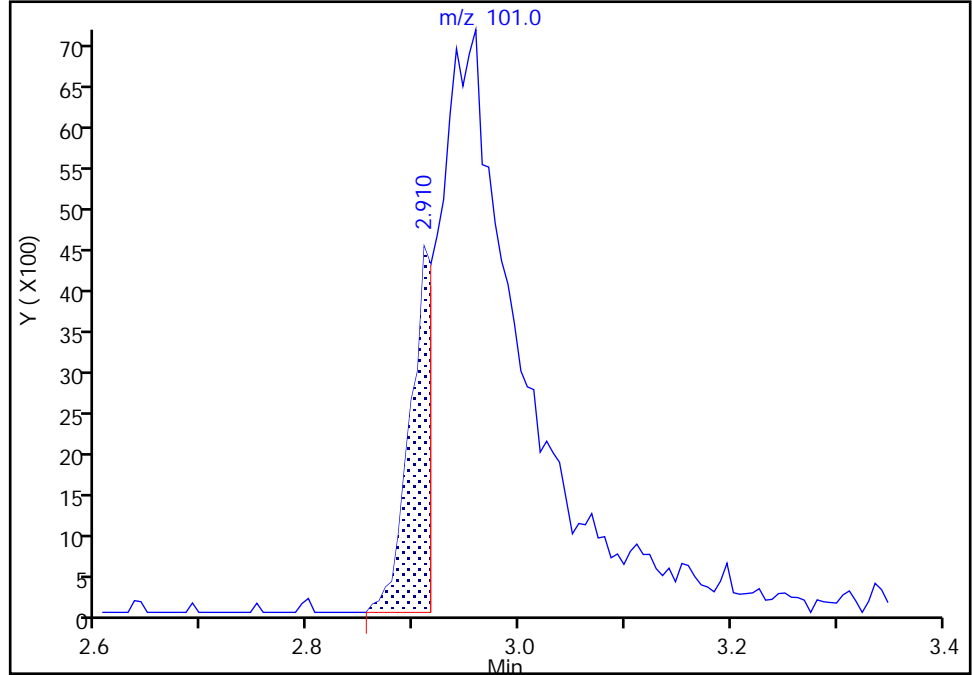
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Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

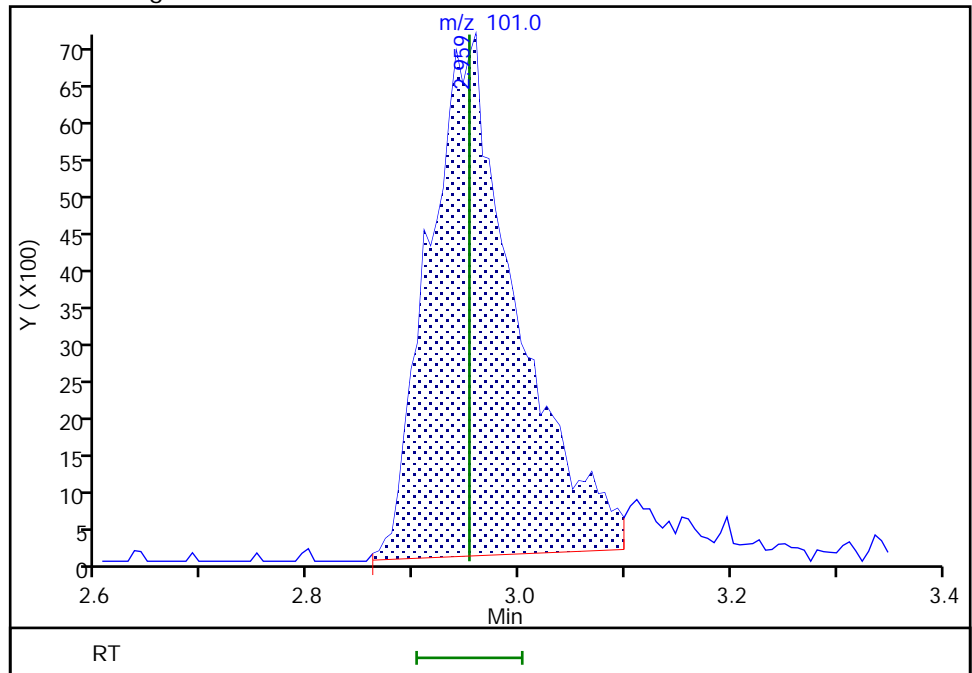
RT: 2.91  
Area: 6646  
Amount: 5.058914  
Amount Units: ug/L

Processing Integration Results



RT: 2.96  
Area: 40952  
Amount: 18.864728  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:30:27  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

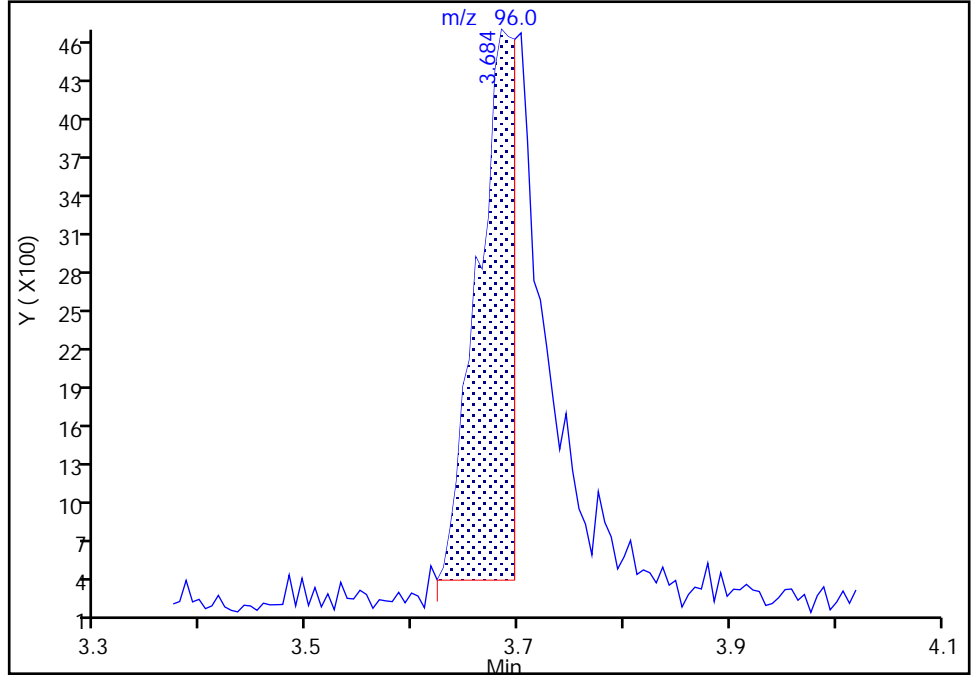
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_012.D  
Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

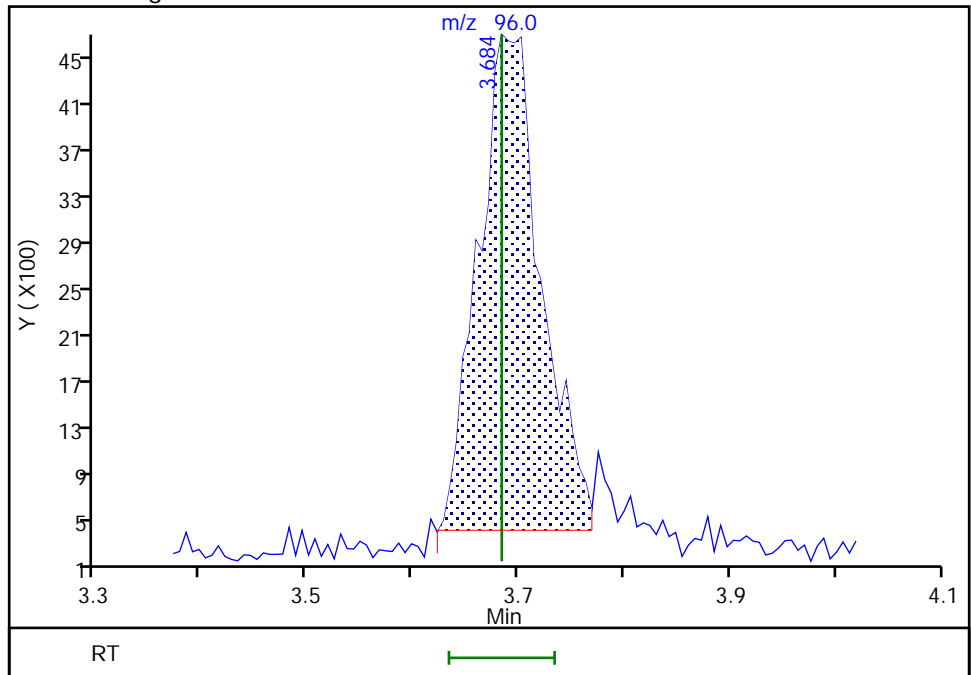
RT: 3.68  
Area: 10644  
Amount: 16.693617  
Amount Units: ug/L

Processing Integration Results



RT: 3.68  
Area: 17767  
Amount: 16.814404  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:30:33  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

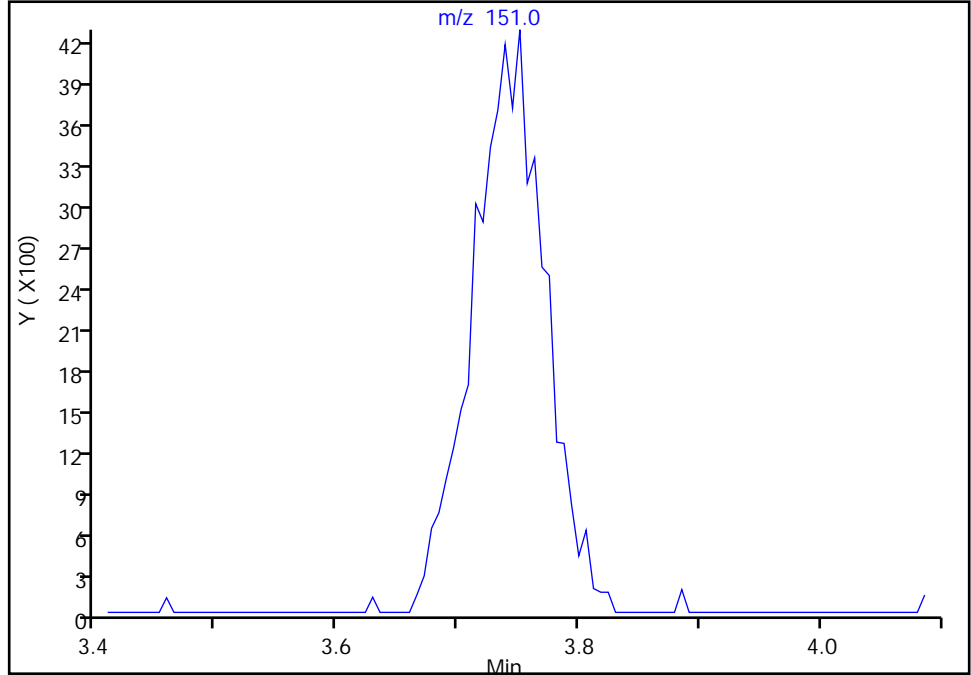
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_012.D  
Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

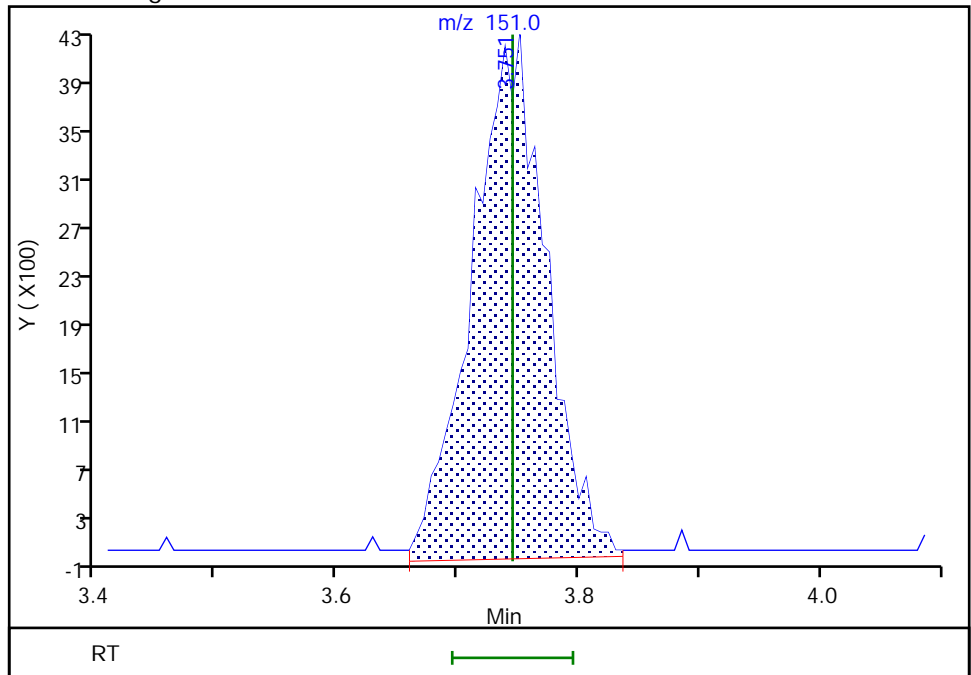
Not Detected  
Expected RT: 3.75

Processing Integration Results



Manual Integration Results

RT: 3.75  
Area: 18282  
Amount: 17.989223  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 13:30:38  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

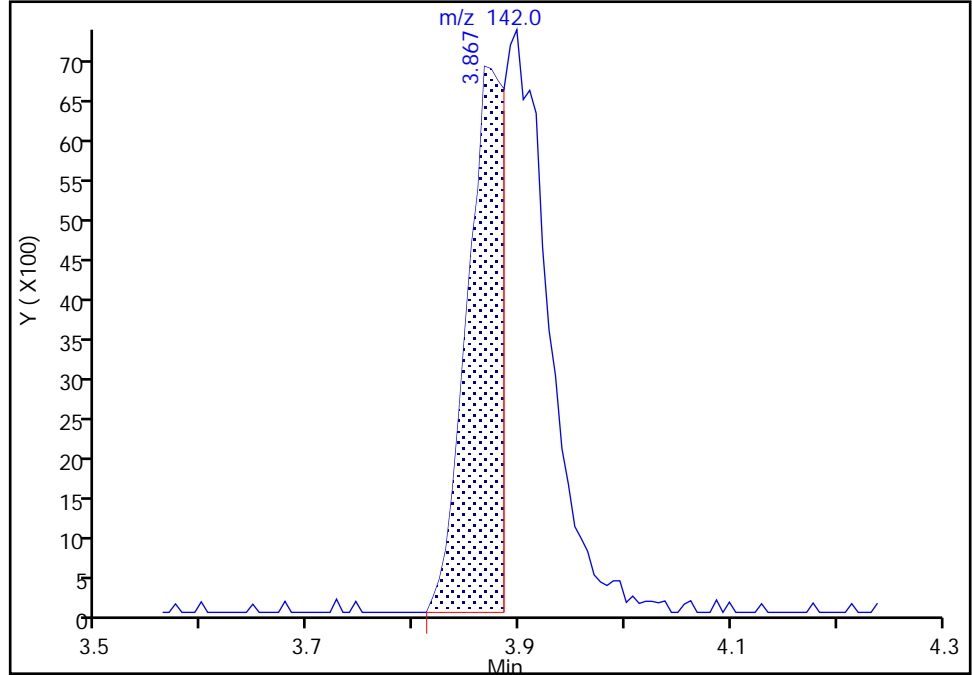
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Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

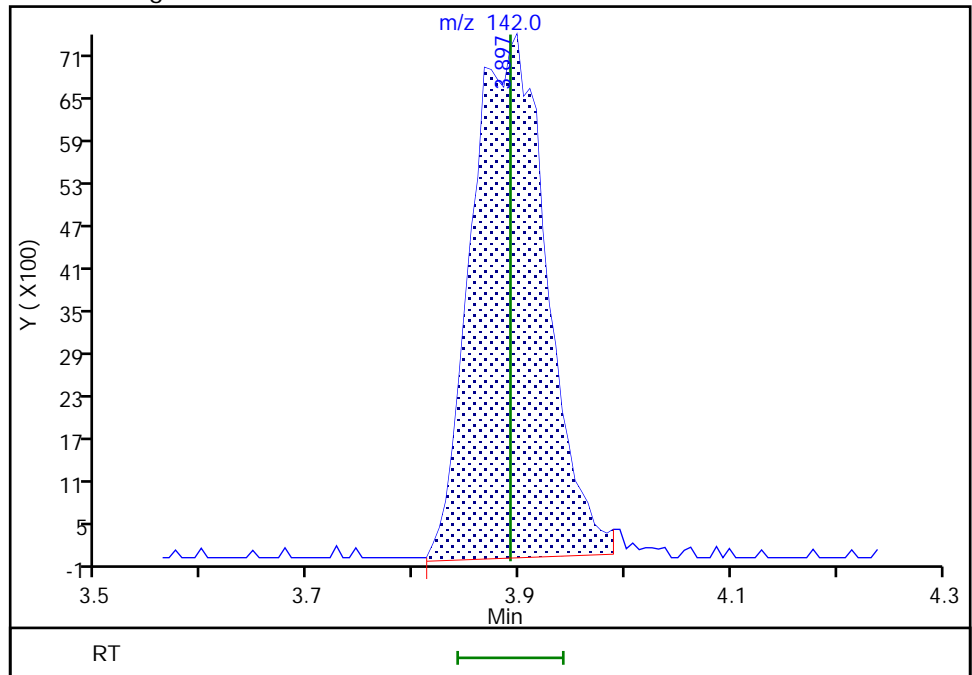
RT: 3.87  
Area: 16846  
Amount: 13.603609  
Amount Units: ug/L

Processing Integration Results



RT: 3.90  
Area: 36260  
Amount: 18.845747  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:30:43  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

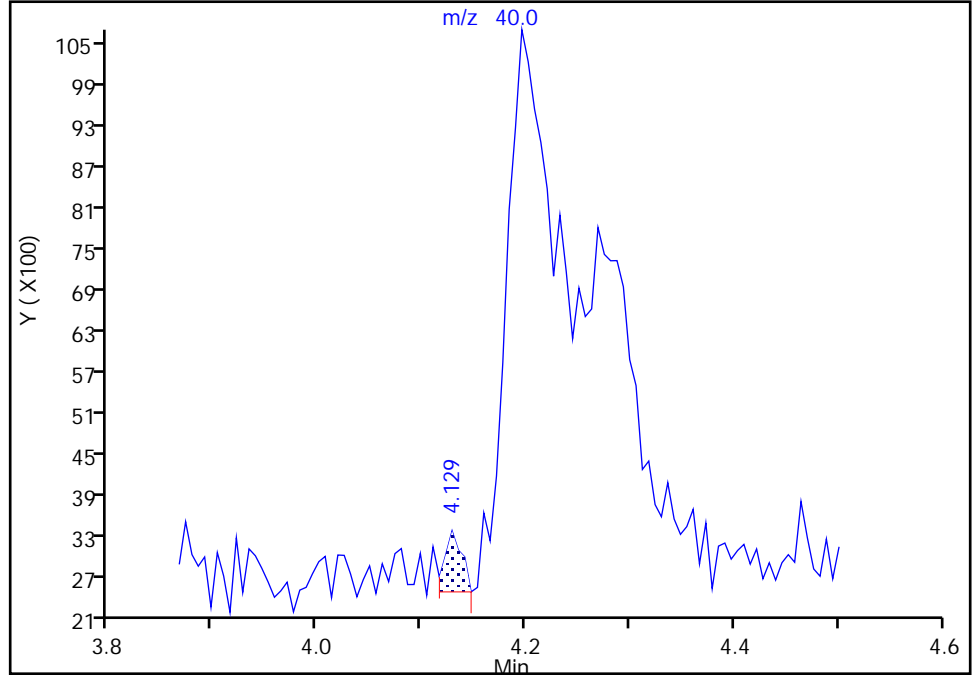
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Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

13 Acetonitrile, CAS: 75-05-8

Signal: 1

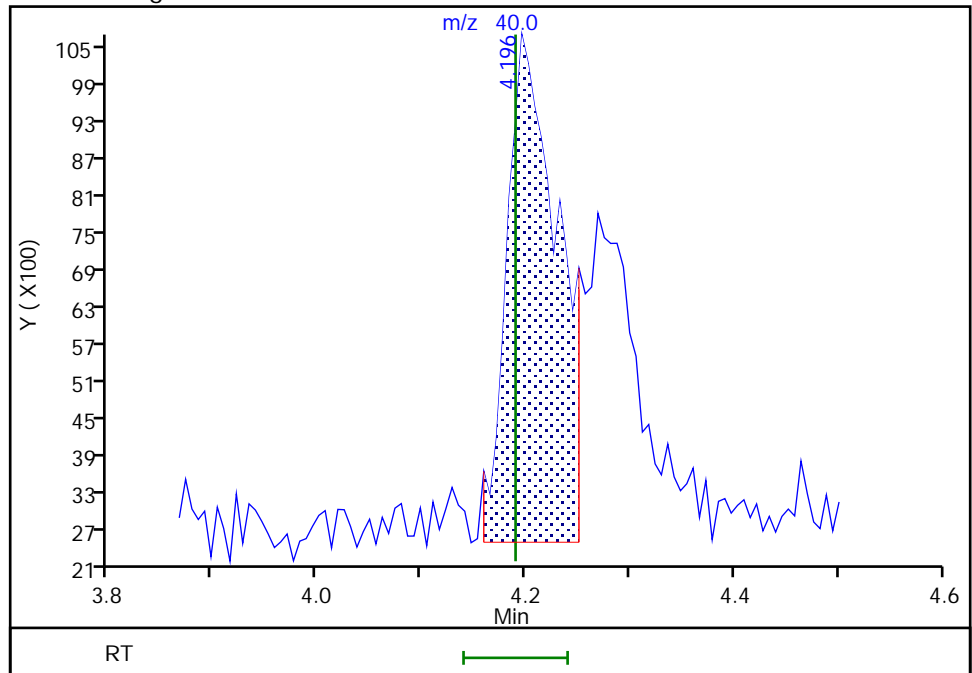
RT: 4.13  
Area: 1001  
Amount: 10.682333  
Amount Units: ug/L

Processing Integration Results



RT: 4.20  
Area: 28083  
Amount: 232.3697  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:30:51  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

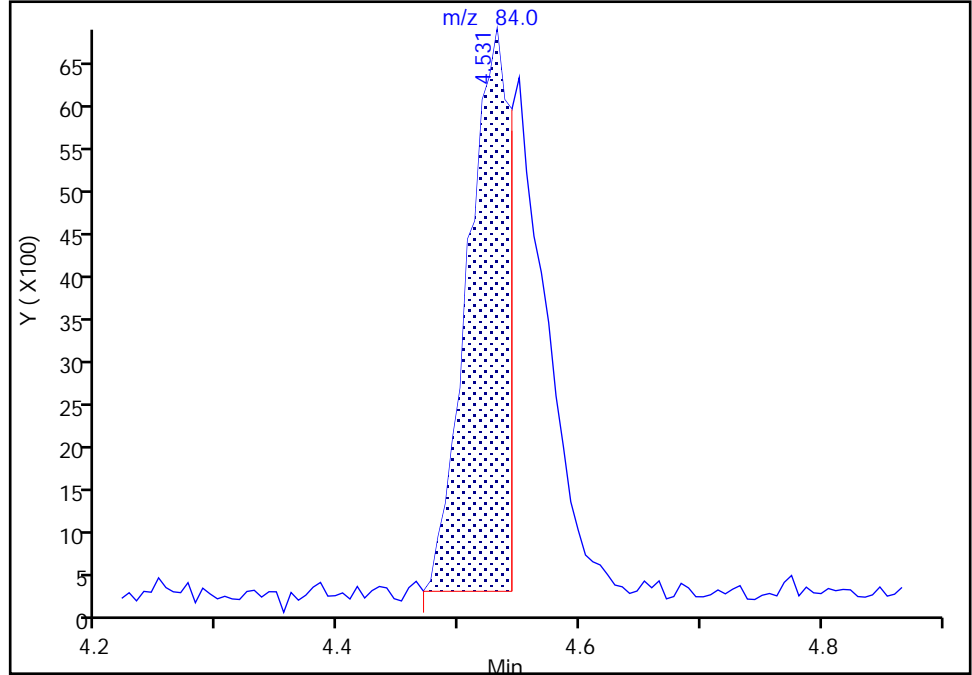
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_012.D  
Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

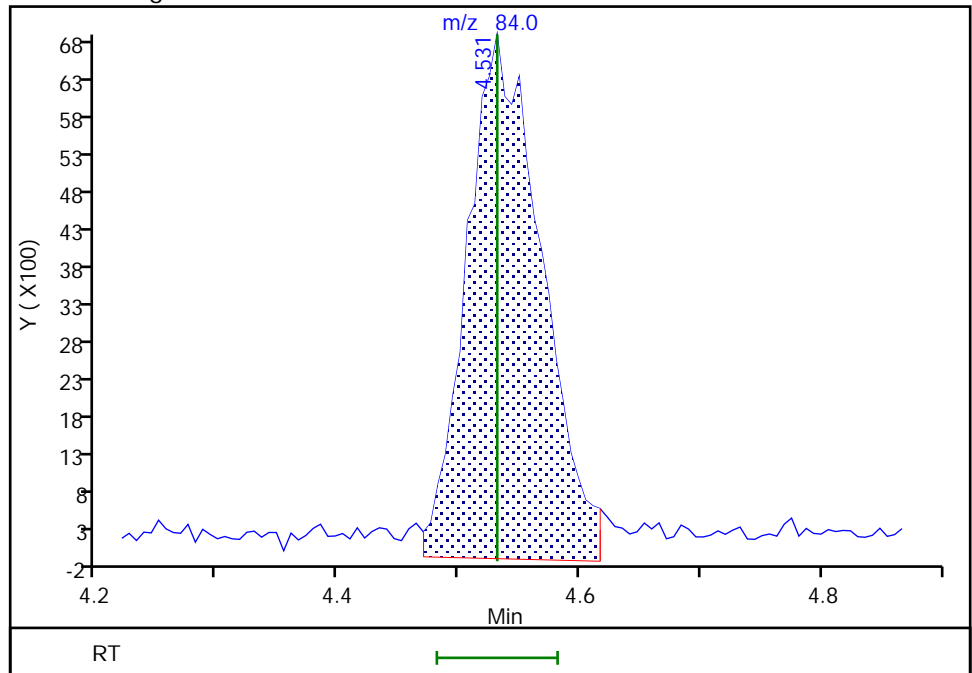
RT: 4.53  
Area: 16321  
Amount: 10.168700  
Amount Units: ug/L

Processing Integration Results



RT: 4.53  
Area: 30237  
Amount: 20.676127  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:30:57  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

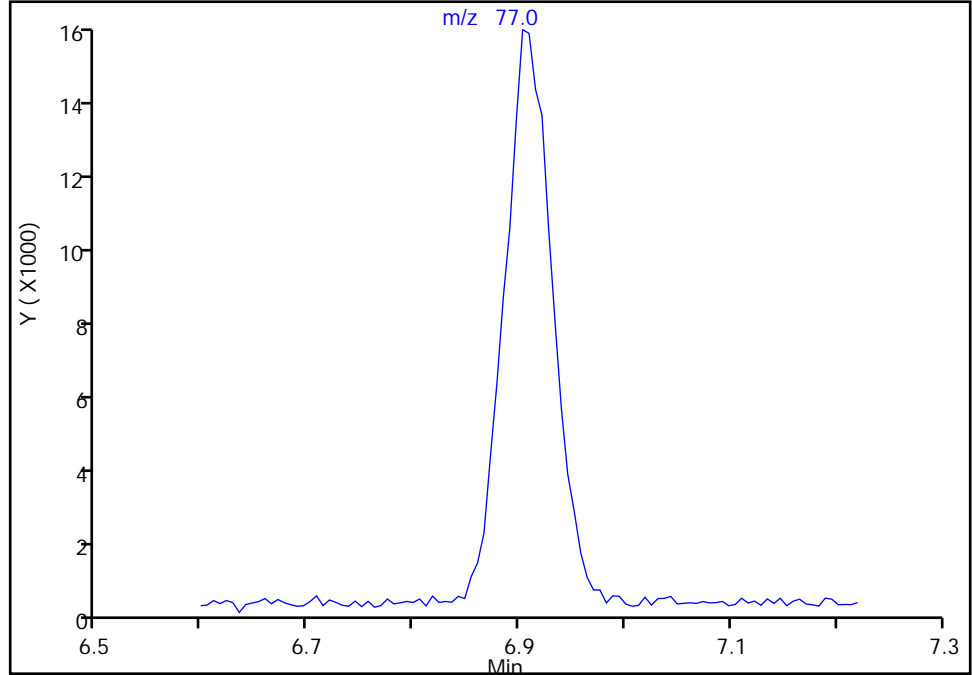
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Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

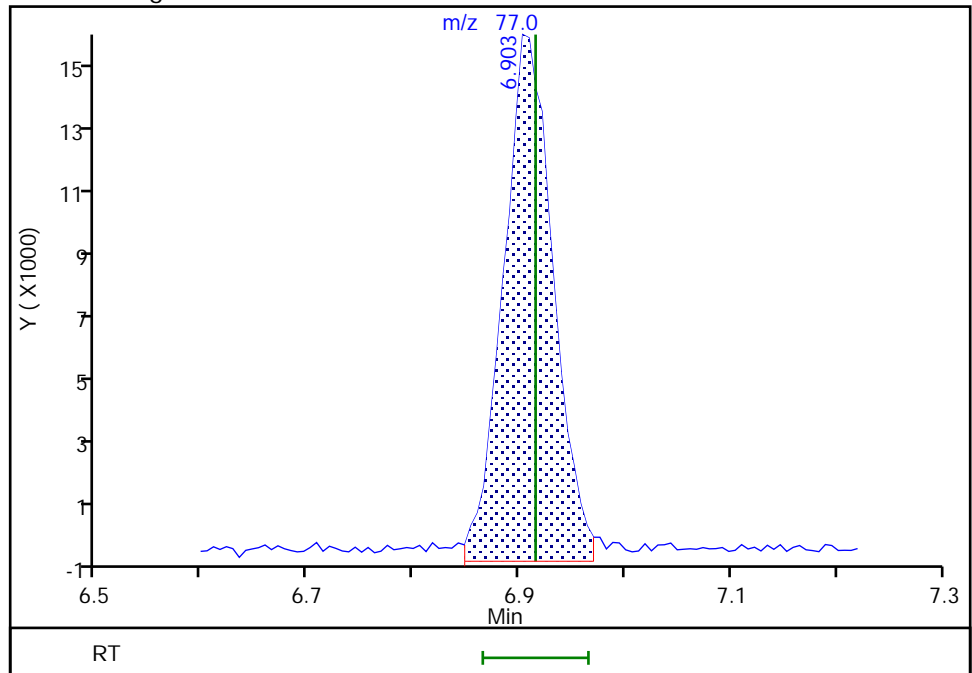
Not Detected  
Expected RT: 6.92

Processing Integration Results



Manual Integration Results

RT: 6.90  
Area: 50577  
Amount: 19.778180  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 13:31:07  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

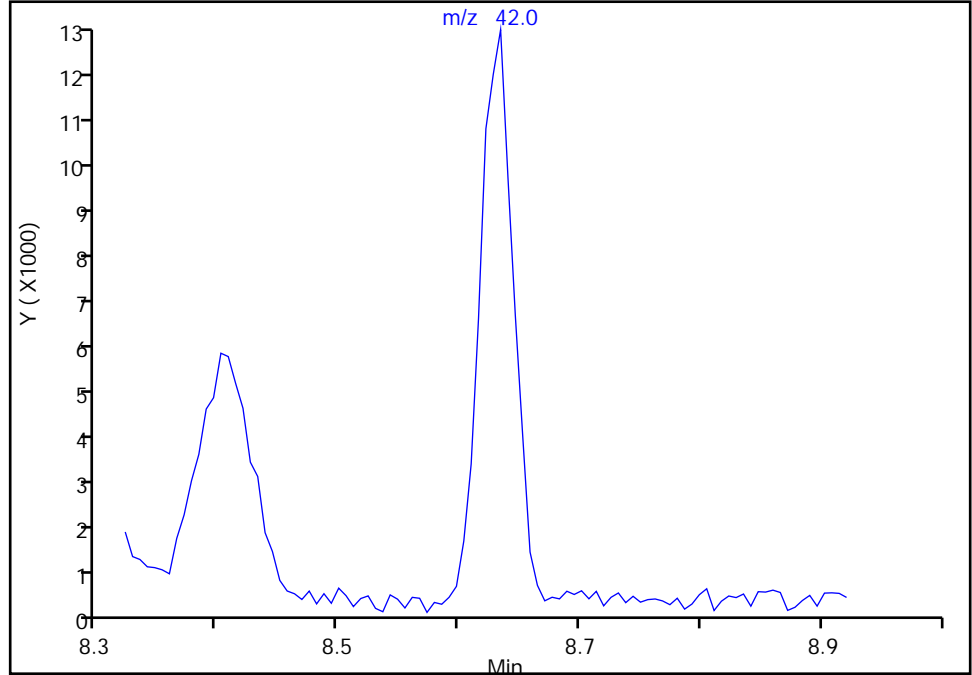
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Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

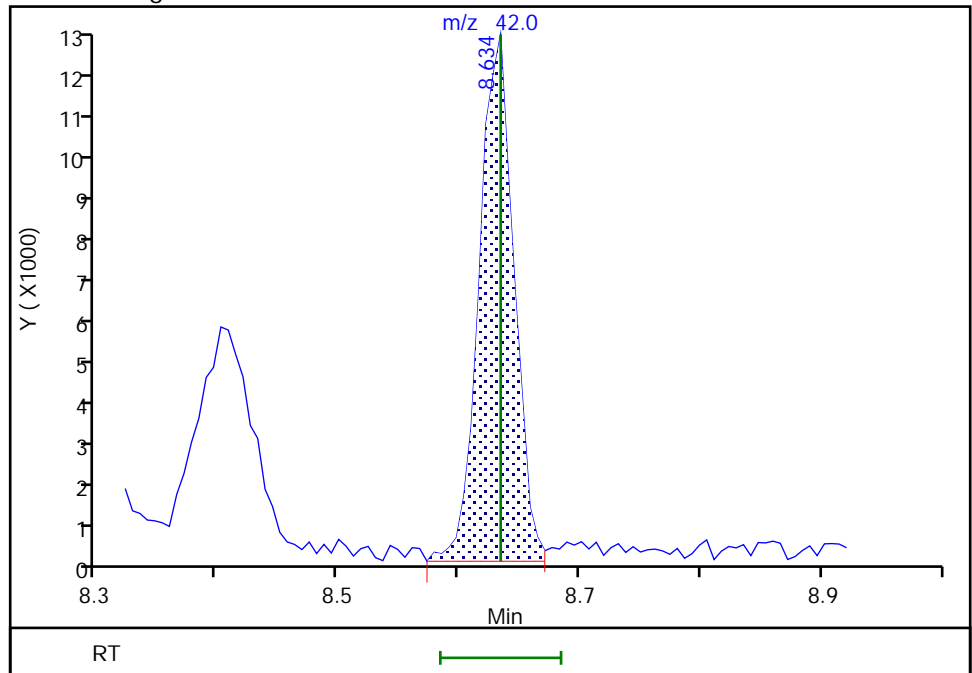
Not Detected  
Expected RT: 8.63

Processing Integration Results



RT: 8.63  
Area: 23481  
Amount: 36.895121  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 02-Oct-2020 10:30:50  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected



Eurofins TestAmerica, Seattle

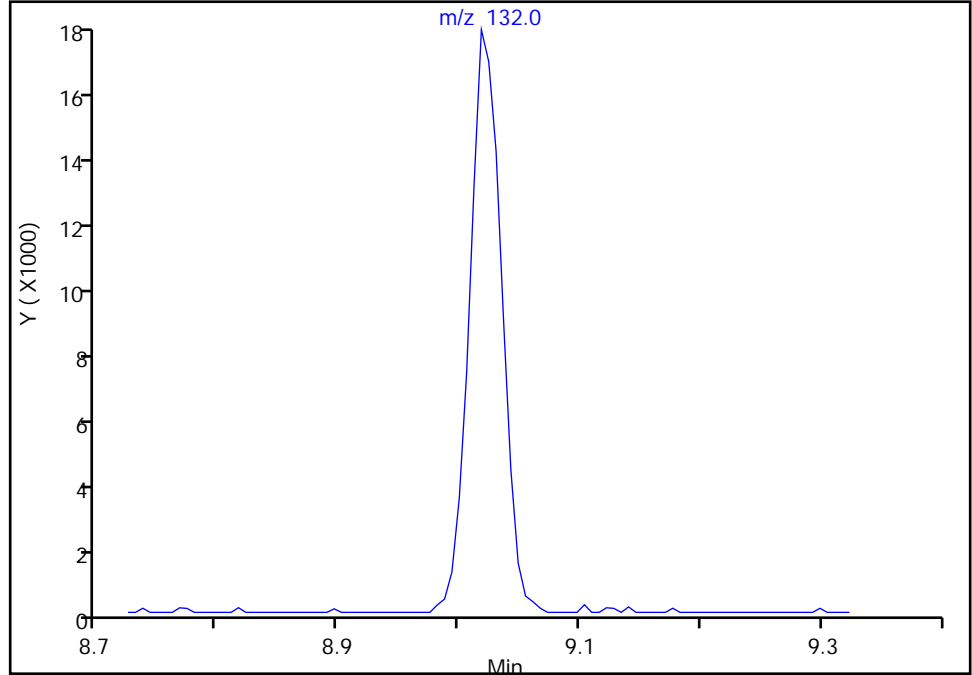
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Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

61 Trichloroethene, CAS: 79-01-6

Signal: 1

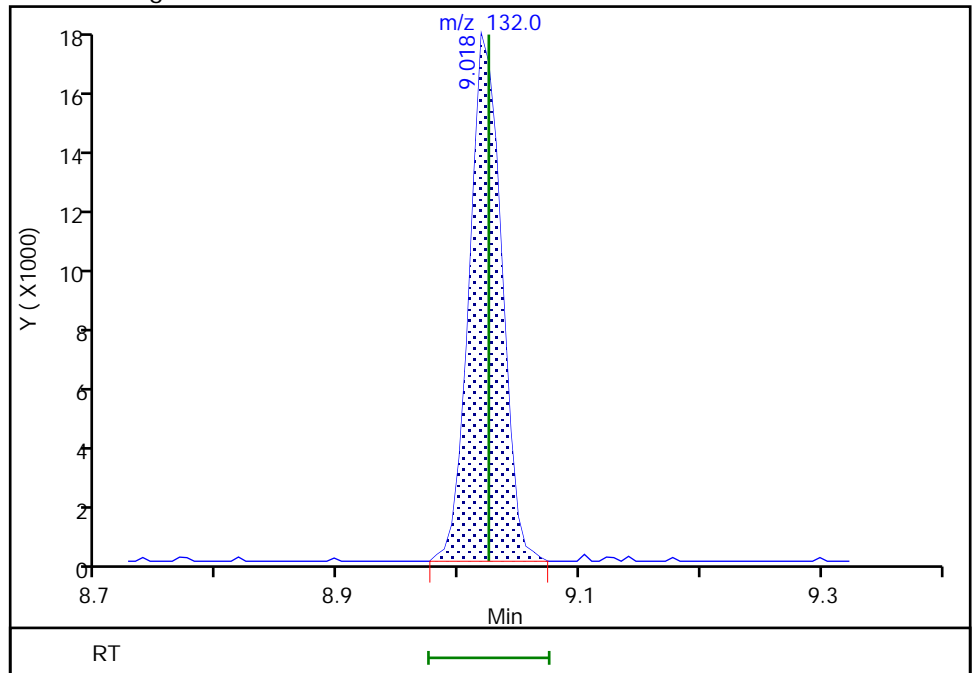
Not Detected  
Expected RT: 9.02

Processing Integration Results



Manual Integration Results

RT: 9.02  
Area: 33249  
Amount: 17.676868  
Amount Units: ug/L



Reviewer: jantanuc, 02-Oct-2020 13:31:22  
Audit Action: Assigned Compound ID

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

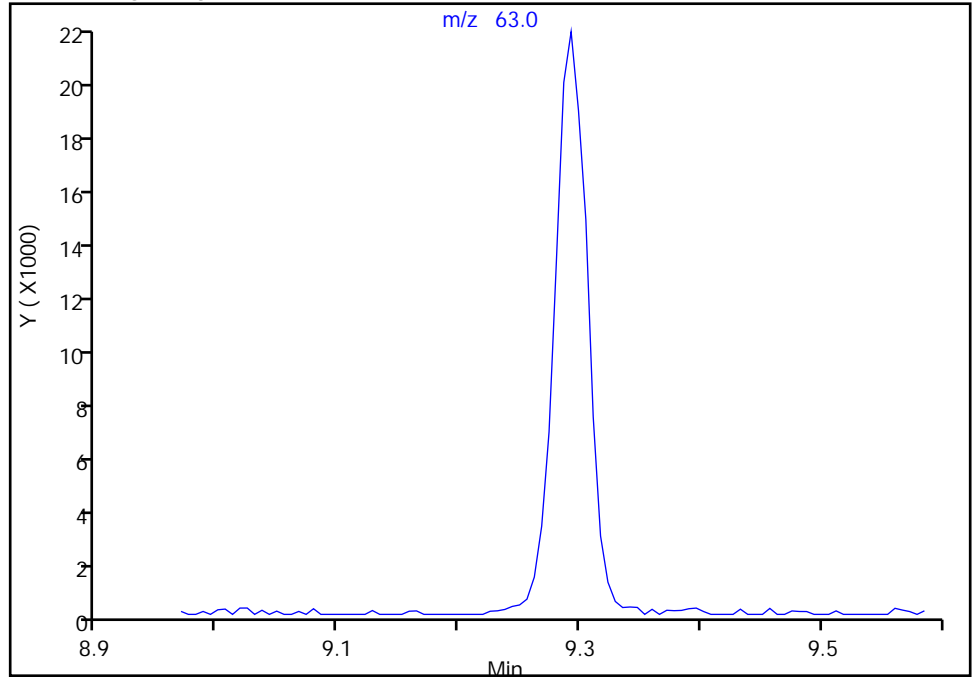
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Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

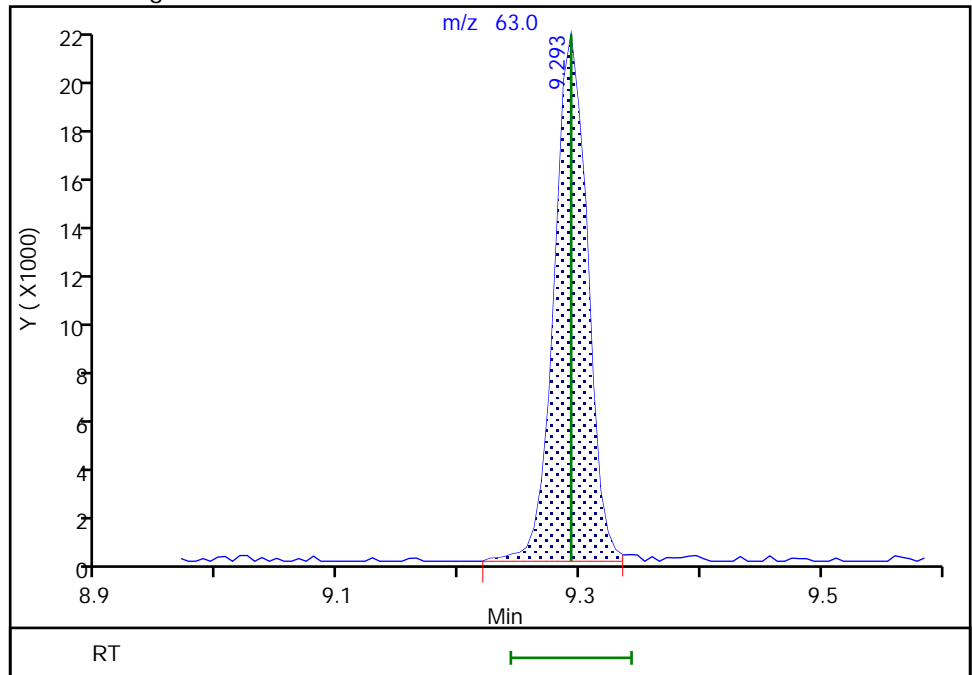
Not Detected  
Expected RT: 9.29

Processing Integration Results



RT: 9.29  
Area: 41268  
Amount: 18.693782  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:31:28  
Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

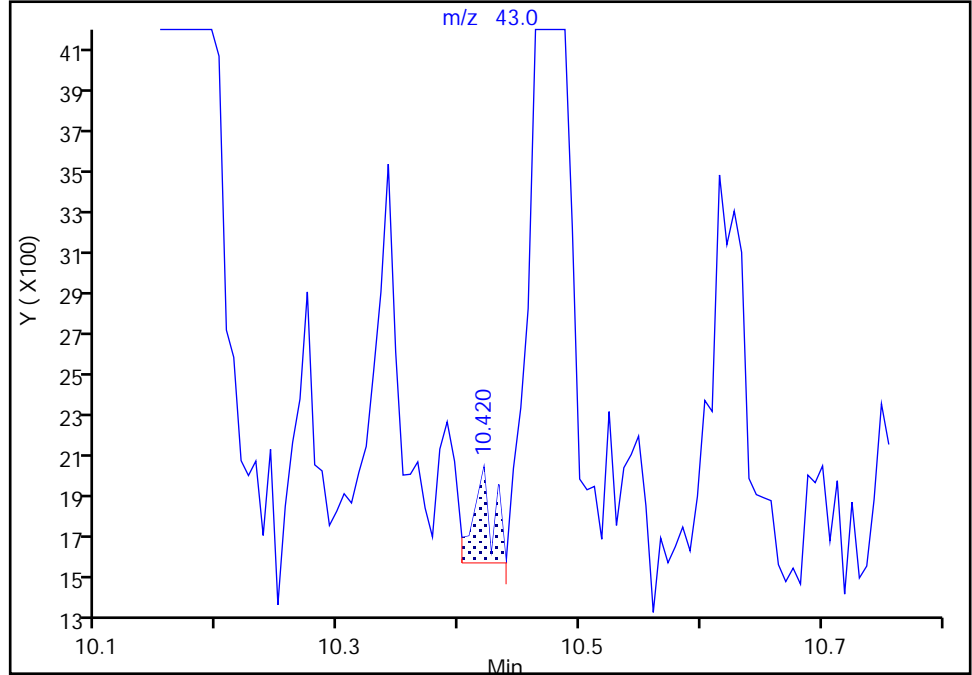
Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_012.D  
Injection Date: 01-Oct-2020 21:13:30 Instrument ID: TAC119  
Lims ID: ICV  
Client ID:  
Operator ID: cjb ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

70 n-Butyl acetate, CAS: 123-86-4

Signal: 1

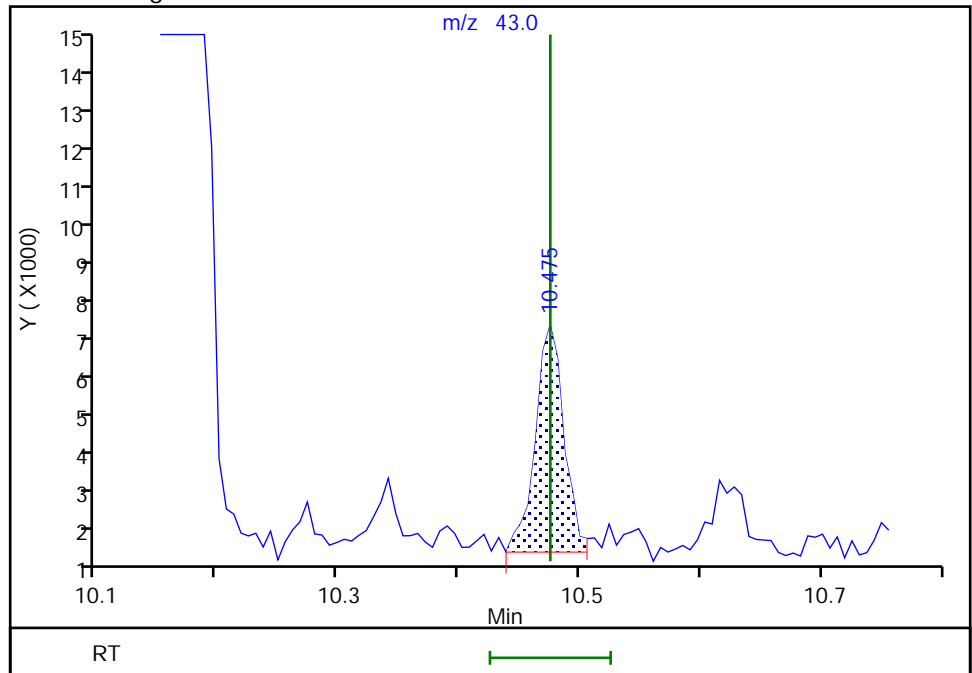
RT: 10.42  
Area: 511  
Amount: 0.714285  
Amount Units: ug/L

Processing Integration Results



RT: 10.48  
Area: 9578  
Amount: 17.794447  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 02-Oct-2020 13:31:39  
Audit Action: Assigned Compound ID

Audit Reason: Baseline

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 580-340383/3 Calibration Date: 10/07/2020 14:20

Instrument ID: TAC119 Calib Start Date: 10/01/2020 16:55

GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 10/01/2020 20:22

Lab File ID: 10072020\_003.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	Lin1		0.0943*	0.1000	14.7	20.0	-26.3*	20.0
Chloromethane	Ave	0.4358	0.3735	0.1000	17.1	20.0	-14.3	20.0
Vinyl chloride	Lin1		0.2346	0.1000	18.3	20.0	-8.5	20.0
Butadiene	Ave	0.2722	0.1720		12.6	20.0	-36.8*	20.0
Bromomethane	Lin1		0.1308	0.1000	21.1	20.0	5.4	20.0
Chloroethane	Lin1		0.1492	0.0600	25.8	20.0	29.1*	20.0
Dichlorofluoromethane	Ave	0.3270	0.4357		26.6	20.0	33.2*	20.0
Trichlorofluoromethane	Ave	0.3336	0.3209	0.1000	19.2	20.0	-3.8	20.0
3-Chloro-1-propene	Lin1		0.0105		22.2	20.0	11.2	20.0
Ethyl ether	Ave	0.2914	0.2849		19.6	20.0	-2.2	20.0
Acrolein	Ave	0.0667	0.0718		129	120	7.7	20.0
1,1-Dichloroethene	Ave	0.1624	0.1821	0.1000	22.4	20.0	12.2	20.0
Acetone	Ave	0.1472	0.1615	0.0200		100	9.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1562	0.1615	0.1000	20.7	20.0	3.4	20.0
Iodomethane	Ave	0.2956	0.2837		19.2	20.0	-4.0	20.0
Carbon disulfide	Ave	0.6145	0.6577	0.1000	21.4	20.0	7.0	20.0
Isopropyl alcohol	Ave	1.024	1.000			200	-2.3	20.0
Acetonitrile	Ave	0.0186	0.0176		237	250	-5.2	20.0
Methyl acetate	Lin1		0.2813	0.1000	38.7	40.0	-3.4	20.0
Methylene Chloride	Lin2		0.2528	0.1000		20.0	14.1	20.0
2-Methyl-2-propanol	Ave	0.0431	0.0483			200	12.0	20.0
Acrylonitrile	Lin2		0.1431		223	200	11.6	20.0
trans-1,2-Dichloroethene	Ave	0.2510	0.2720	0.1000	21.7	20.0	8.3	20.0
Methyl tert-butyl ether	Lin1		0.8004	0.1000	22.0	20.0	9.8	20.0
Hexane	Lin2		0.5994			20.0	-6.1	20.0
1,1-Dichloroethane	Ave	0.5880	0.6298	0.2000	21.4	20.0	7.1	20.0
Vinyl acetate	Ave	0.0563	0.0603		53.6	50.0	7.1	20.0
2-Chloro-1,3-butadiene	Ave	0.7324	0.7227		19.7	20.0	-1.3	20.0
Isopropyl ether	Ave	1.444	1.451		25.1	25.0	0.5	20.0
Tert-butyl ethyl ether	Ave	0.3324	0.3450		26.0	25.0	3.8	20.0
2,2-Dichloropropane	Ave	0.3929	0.4443		22.6	20.0	13.1	20.0
2-Butanone (MEK)	Ave	0.0305	0.0391	0.0200	128	100	28.3*	20.0
cis-1,2-Dichloroethene	Ave	0.2818	0.3282	0.1000	23.3	20.0	16.5	20.0
Propionitrile	Ave	0.0490	0.0563		287	250	14.7	20.0
Ethyl acetate	Ave	0.4105	0.4250		41.4	40.0	3.5	20.0
Methacrylonitrile	Ave	0.1061	0.1285		242	200	21.2*	20.0
Chlorobromomethane	Ave	0.1672	0.1895		22.7	20.0	13.3	20.0
Chloroform	Ave	0.5029	0.5533	0.2000	22.0	20.0	10.0	20.0
1,1,1-Trichloroethane	Ave	0.4229	0.4744	0.1000	22.4	20.0	12.2	20.0
Cyclohexane	Ave	0.3611	0.4003	0.1000	22.2	20.0	10.8	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 580-340383/3 Calibration Date: 10/07/2020 14:20

Instrument ID: TAC119 Calib Start Date: 10/01/2020 16:55

GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 10/01/2020 20:22

Lab File ID: 10072020\_003.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
Carbon tetrachloride	Lin1		0.4326	0.1000	22.8	20.0	14.1	20.0
1,1-Dichloropropene	Ave	0.3858	0.4276		22.2	20.0	10.8	20.0
Benzene	Ave	1.056	1.236	0.5000	23.4	20.0	17.0	20.0
Isobutyl alcohol	Ave	0.7601	0.7242		476	500	-4.7	20.0
1,2-Dichloroethane	Ave	0.4957	0.5197	0.1000	21.0	20.0	4.8	20.0
Tert-amyl methyl ether	Ave	0.7744	0.8262		26.7	25.0	6.7	20.0
n-Heptane	Ave	0.7626	0.7164		18.8	20.0	-6.1	20.0
Tetrahydrofuran	Lin1		0.0918			40.0	-6.0	20.0
Trichloroethene	Ave	0.2890	0.3297	0.2000	22.8	20.0	14.1	20.0
Ethyl acrylate	Ave	0.5523	0.5225		18.9	20.0	-5.4	20.0
Methylcyclohexane	Ave	0.4719	0.5487	0.1000	23.3	20.0	16.3	20.0
n-Butanol	Ave	0.0077	0.0080			500	3.5	20.0
1,2-Dichloropropane	Ave	0.3392	0.3821	0.1000	22.5	20.0	12.7	20.0
Dibromomethane	Ave	0.1493	0.1817		24.3	20.0	21.7*	20.0
Methyl methacrylate	Ave	0.1773	0.2115			40.0	19.3	20.0
Dichlorobromomethane	Ave	0.3941	0.4335	0.2000	22.0	20.0	10.0	20.0
2-Nitropropane	Ave	0.1851	0.1541		33.3	40.0	-16.7	20.0
2-Chloroethyl vinyl ether	Lin2		0.1176		12.5	20.0	-37.4*	20.0
cis-1,3-Dichloropropene	Ave	0.5881	0.6797	0.2000	23.1	20.0	15.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1673	0.1894	0.0600	113	100	13.2	20.0
Toluene	Ave	1.550	1.858	0.4000	24.0	20.0	19.9	20.0
n-Butyl acetate	Lin1		0.1016		20.1	20.0	0.7	20.0
trans-1,3-Dichloropropene	Ave	0.5369	0.6189	0.1000	23.1	20.0	15.3	20.0
Ethyl methacrylate	Ave	0.4045	0.4538		22.4	20.0	12.2	20.0
1,1,2-Trichloroethane	Lin2		0.3399	0.1000	24.7	20.0	23.3*	20.0
Tetrachloroethene	Ave	0.6896	0.8556	0.2000	24.8	20.0	24.1*	20.0
1,3-Dichloropropane	Ave	0.4971	0.6049		24.3	20.0	21.7*	20.0
2-Hexanone	Ave	0.1640	0.1896	0.0600	116	100	15.6	20.0
Chlorodibromomethane	Ave	0.3619	0.3972	0.1000	22.0	20.0	9.8	20.0
Ethylene Dibromide	Lin1		0.3325	0.1000	24.3	20.0	21.6*	20.0
Chlorobenzene	Ave	0.9682	1.183	0.5000	24.4	20.0	22.2*	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3708	0.4091		22.1	20.0	10.3	20.0
Ethylbenzene	Lin2		2.036	0.1000	26.0	20.0	30.0*	20.0
m-Xylene & p-Xylene	Ave	1.408	1.573	0.1000	22.3	20.0	11.7	20.0
o-Xylene	Lin2		1.573	0.3000	24.6	20.0	22.8*	20.0
Styrene	Ave	0.9382	1.116	0.3000	23.8	20.0	19.0	20.0
Bromoform	Ave	0.2162	0.2342	0.1000	21.7	20.0	8.3	20.0
Isopropylbenzene	Ave	1.592	1.923	0.1000	24.2	20.0	20.8*	20.0
1,1,2,2-Tetrachloroethane	Lin1		0.9610	0.3000	25.9	20.0	29.6*	20.0
Bromobenzene	Ave	0.8548	1.006		23.5	20.0	17.7	20.0
trans-1,4-Dichloro-2-butene	Lin2		0.4029			20.0	3.2	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-340383/3 Calibration Date: 10/07/2020 14:20  
 Instrument ID: TAC119 Calib Start Date: 10/01/2020 16:55  
 GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 10/01/2020 20:22  
 Lab File ID: 10072020\_003.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
1,2,3-Trichloropropane	Ave	0.2424	0.2884		23.8	20.0	19.0	20.0
N-Propylbenzene	Ave	4.225	5.437		25.7	20.0	28.7*	20.0
2-Chlorotoluene	Ave	0.8512	1.018		23.9	20.0	19.6	20.0
1,3,5-Trimethylbenzene	Ave	3.054	3.745		24.5	20.0	22.7*	20.0
4-Chlorotoluene	Ave	0.8857	1.059		23.9	20.0	19.5	20.0
tert-Butylbenzene	Ave	2.806	3.438		24.5	20.0	22.5*	20.0
1,2,4-Trimethylbenzene	Ave	3.050	3.697		24.2	20.0	21.2*	20.0
sec-Butylbenzene	Ave	3.948	5.110		25.9	20.0	29.4*	20.0
1,3-Dichlorobenzene	Ave	1.548	1.919	0.6000	24.8	20.0	24.0*	20.0
4-Isopropyltoluene	Ave	3.275	4.126		25.2	20.0	26.0*	20.0
1,4-Dichlorobenzene	Ave	1.551	1.911	0.5000	24.6	20.0	23.2*	20.0
1,2,3-Trimethylbenzene	Ave	3.237	3.784		23.4	20.0	16.9	20.0
Benzyl chloride	Ave	0.3320	0.3841		23.1	20.0	15.7	20.0
n-Butylbenzene	Ave	0.8108	1.001		24.7	20.0	23.5*	20.0
1,2-Dichlorobenzene	Ave	1.481	1.839	0.4000	24.8	20.0	24.2*	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1595	0.1924	0.0500	24.1	20.0	20.6*	20.0
1,3,5-Trichlorobenzene	Ave	1.140	1.347		23.6	20.0	18.1	20.0
1,2,4-Trichlorobenzene	Ave	0.9648	1.171	0.2000	24.3	20.0	21.4*	20.0
Hexachlorobutadiene	Ave	0.5918	0.6890		23.3	20.0	16.4	20.0
Naphthalene	Ave	2.629	3.075		23.4	20.0	17.0	20.0
1,2,3-Trichlorobenzene	Ave	0.9932	1.137		22.9	20.0	14.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2661	0.2547		9.57	10.0	-4.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3624	0.3214		8.87	10.0	-11.3	20.0
Toluene-d8 (Surr)	Ave	1.257	1.280		10.2	10.0	1.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3613	0.3545		9.81	10.0	-1.9	20.0

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D  
 Lims ID: ccvis  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 07-Oct-2020 14:20:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ccvis  
 Operator ID: jsm Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 09:54:35 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc

Date: 09-Oct-2020 09:54:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.709	1.709	0.000	82	12822	20.0	14.7	M
4 Chloromethane	50	1.922	1.922	0.000	93	50806	20.0	17.1	
5 Vinyl chloride	62	2.050	2.050	0.000	81	31910	20.0	18.3	M
6 Butadiene	54	2.111	2.111	0.000	85	23400	20.0	12.6	M
7 Bromomethane	94	2.471	2.471	0.000	88	17791	20.0	21.1	M
8 Chloroethane	66	2.593	2.593	0.000	88	6658	20.0	25.8	M
10 Dichlorofluoromethane	67	2.916	2.916	0.000	80	59272	20.0	26.6	
14 Trichlorofluoromethane	101	2.953	2.953	0.000	81	43653	20.0	19.2	M
11 3-Chloro-1-propene	76	2.959	2.959	0.000	49	1112	20.0	22.2	M
17 Ethyl ether	59	3.331	3.331	0.000	98	38751	20.0	19.6	
12 Acrolein	56	3.513	3.513	0.000	96	58577	120.0	129.2	
19 1,1-Dichloroethene	96	3.702	3.702	0.000	84	24777	20.0	22.4	M
16 Acetone	43	3.733	3.733	0.000	96	109808	100.0	109.7	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.739	3.739	0.000	44	21963	20.0	20.7	M
22 Iodomethane	142	3.898	3.898	0.000	99	38597	20.0	19.2	M
26 Carbon disulfide	76	4.019	4.019	0.000	97	89467	20.0	21.4	M
15 Isopropyl alcohol	45	4.038	4.038	0.000	96	41644	200.0	195.5	M
S 2 Xylenes, Total	100				0		40.0	46.9	
13 Acetonitrile	40	4.208	4.208	0.000	97	29931	250.0	237.0	
24 Methyl acetate	43	4.300	4.300	0.000	98	76538	40.0	38.7	
23 Methylene Chloride	84	4.538	4.538	0.000	87	34382	20.0	22.8	
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	41626	200.0	200.0	
20 2-Methyl-2-propanol	59	4.812	4.812	0.000	98	65663	200.0	223.9	
21 Acrylonitrile	53	4.977	4.977	0.000	98	194716	200.0	223.2	
27 trans-1,2-Dichloroethene	96	5.062	5.062	0.000	76	36993	20.0	21.7	
28 Methyl tert-butyl ether	73	5.074	5.074	0.000	86	108880	20.0	22.0	
34 Hexane	57	5.635	5.635	0.000	94	81535	20.0	18.8	
30 1,1-Dichloroethane	63	5.903	5.903	0.000	86	85667	20.0	21.4	
31 Vinyl acetate	86	5.976	5.976	0.000	97	20509	50.0	53.6	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	68	98312	20.0	19.7	
35 Isopropyl ether	45	6.056	6.056	0.000	97	246776	25.0	25.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	97	58666	25.0	26.0	
43 2,2-Dichloropropane	77	6.909	6.909	0.000	67	60437	20.0	22.6	
33 2-Butanone (MEK)	72	6.921	6.927	-0.006	96	26625	100.0	128.3	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	55	44649	20.0	23.3	
29 Propionitrile	54	7.007	7.007	0.000	86	95665	250.0	286.9	
38 Ethyl acetate	43	7.055	7.055	0.000	98	115618	40.0	41.4	
36 Methacrylonitrile	67	7.257	7.257	0.000	97	174828	200.0	242.4	
39 Chlorobromomethane	130	7.305	7.305	0.000	65	25774	20.0	22.7	
40 Chloroform	83	7.507	7.507	0.000	80	75264	20.0	22.0	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	91	64526	20.0	22.4	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.738	0.000	50	17322	10.0	9.57	
51 Cyclohexane	84	7.799	7.799	0.000	93	54454	20.0	22.2	
52 Carbon tetrachloride	117	7.927	7.927	0.000	77	58846	20.0	22.8	
50 1,1-Dichloropropene	75	7.946	7.946	0.000	80	58158	20.0	22.2	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	21857	10.0	8.87	
53 Benzene	78	8.195	8.195	0.000	94	168115	20.0	23.4	
42 Isobutyl alcohol	43	8.202	8.202	0.000	66	75365	500.0	476.4	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	78	70687	20.0	21.0	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	88	140482	25.0	26.7	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	96	68013	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.634	0.000	33	24982	40.0	37.6	
56 n-Heptane	43	8.634	8.634	0.000	94	97455	20.0	18.8	
61 Trichloroethene	132	9.025	9.025	0.000	91	44841	20.0	22.8	
57 Ethyl acrylate	55	9.153	9.153	0.000	98	71075	20.0	18.9	
66 Methylcyclohexane	83	9.262	9.262	0.000	96	74631	20.0	23.3	
49 n-Butanol	56	9.268	9.268	0.000	49	27122	500.0	517.4	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	84	51979	20.0	22.5	a
59 Dibromomethane	174	9.390	9.390	0.000	37	24717	20.0	24.3	
63 Methyl methacrylate	69	9.396	9.396	0.000	87	57550	40.0	47.7	
62 Dichlorobromomethane	83	9.592	9.592	0.000	89	58972	20.0	22.0	
58 2-Nitropropane	43	9.799	9.799	0.000	99	41919	40.0	33.3	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	88	12450	20.0	12.5	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	79	71981	20.0	23.1	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	99	100286	100.0	113.2	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	67788	10.0	10.2	
74 Toluene	91	10.341	10.341	0.000	97	196803	20.0	24.0	
70 n-Butyl acetate	43	10.475	10.475	0.000	88	10757	20.0	20.1	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	90	65539	20.0	23.1	
73 Ethyl methacrylate	69	10.622	10.622	0.000	91	48058	20.0	22.4	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	89	35993	20.0	24.7	
79 Tetrachloroethene	164	10.817	10.817	0.000	87	38175	20.0	24.8	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	94	64058	20.0	24.3	
76 2-Hexanone	58	10.933	10.933	0.000	75	100397	100.0	115.6	
77 Chlorodibromomethane	129	11.079	11.079	0.000	86	42069	20.0	22.0	
78 Ethylene Dibromide	107	11.170	11.170	0.000	97	35213	20.0	24.3	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	84	52951	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	91	125307	20.0	24.4	
80 1,1,1,2-Tetrachloroethane	131	11.683	11.683	0.000	40	43324	20.0	22.1	
83 Ethylbenzene	91	11.683	11.683	0.000	99	215667	20.0	26.0	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	166567	20.0	22.3	
88 o-Xylene	91	12.115	12.115	0.000	95	166578	20.0	24.6	
86 Styrene	104	12.134	12.134	0.000	95	118203	20.0	23.8	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	94	24797	20.0	21.7	
91 Isopropylbenzene	105	12.414	12.414	0.000	96	203680	20.0	24.2	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	81	18773	10.0	9.81	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	89	42878	20.0	25.9	
93 Bromobenzene	156	12.682	12.682	0.000	93	44879	20.0	23.5	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	54	17977	20.0	20.6	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	39	12867	20.0	23.8	
94 N-Propylbenzene	91	12.749	12.749	0.000	90	242597	20.0	25.7	
95 2-Chlorotoluene	126	12.835	12.835	0.000	95	45427	20.0	23.9	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	94	167105	20.0	24.5	
96 4-Chlorotoluene	126	12.926	12.926	0.000	81	47227	20.0	23.9	
98 tert-Butylbenzene	119	13.152	13.152	0.000	95	153406	20.0	24.5	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	68	164927	20.0	24.2	
100 sec-Butylbenzene	105	13.323	13.323	0.000	95	227981	20.0	25.9	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	92	85636	20.0	24.8	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	97	184101	20.0	25.2	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	65	22308	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	90	85267	20.0	24.6	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	90	168846	20.0	23.4	
101 Benzyl chloride	126	13.591	13.591	0.000	98	17135	20.0	23.1	
108 n-Butylbenzene	134	13.761	13.761	0.000	98	44662	20.0	24.7	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	91	82061	20.0	24.8	
109 1,2-Dibromo-3-Chloropropane	157	14.402	14.402	0.000	69	8583	20.0	24.1	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	95	60087	20.0	23.6	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	94	52252	20.0	24.3	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	92	30740	20.0	23.3	
112 Naphthalene	128	15.249	15.249	0.000	97	137200	20.0	23.4	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	93	50714	20.0	22.9	
\$ 118 BFB	95	12.560	12.560	0.000	81	24282	NR	NR	

## QC Flag Legend

### Processing Flags

NR - Missing Quant Standard

### Review Flags

M - Manually Integrated

a - User Assigned ID

## Reagents:

VOAMasterMix\_00057

Amount Added: 2.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D

Injection Date: 07-Oct-2020 14:20:30

Instrument ID: TAC119

Lims ID: ccvis

Client ID:

Operator ID: jsm

ALS Bottle#: 3

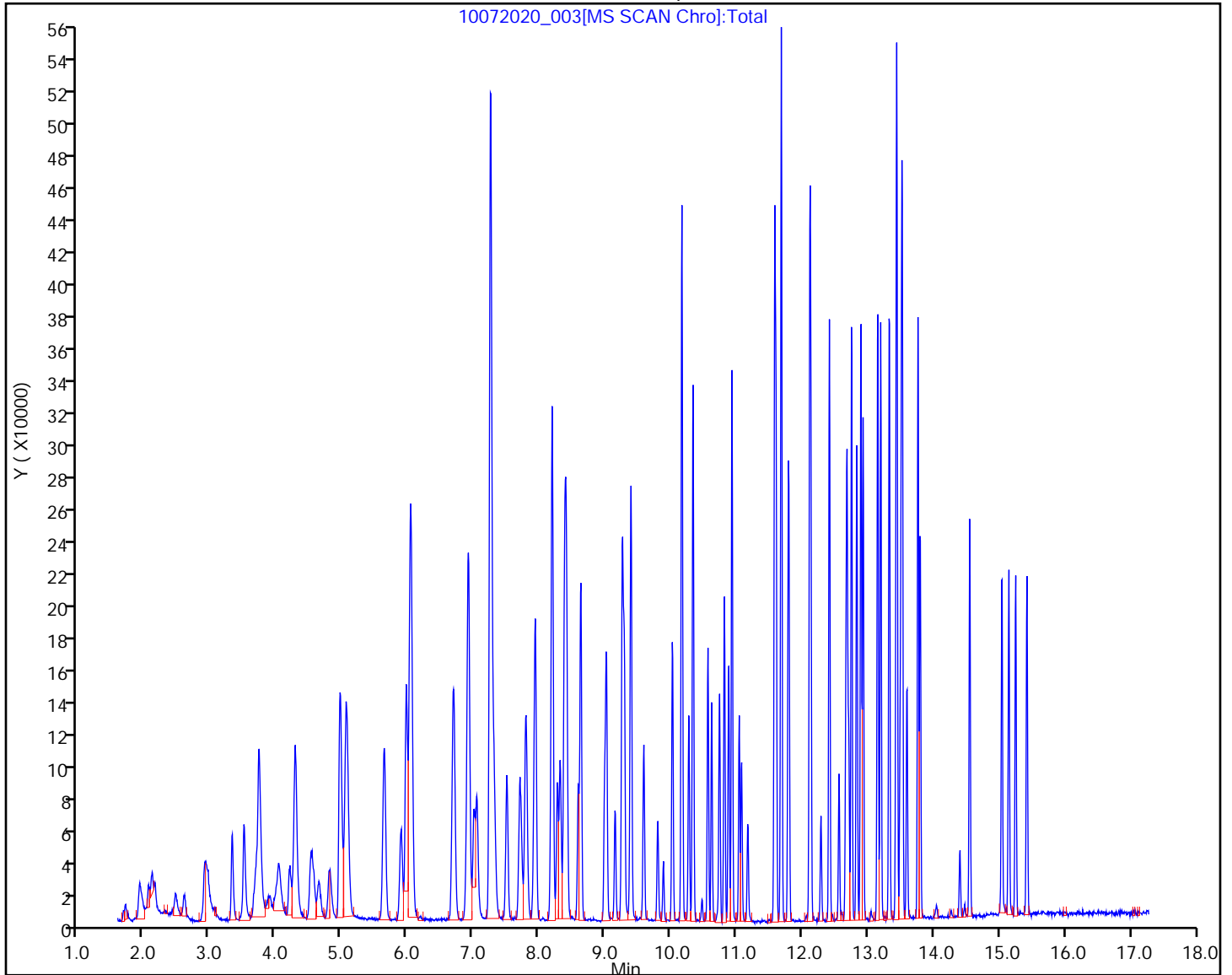
Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

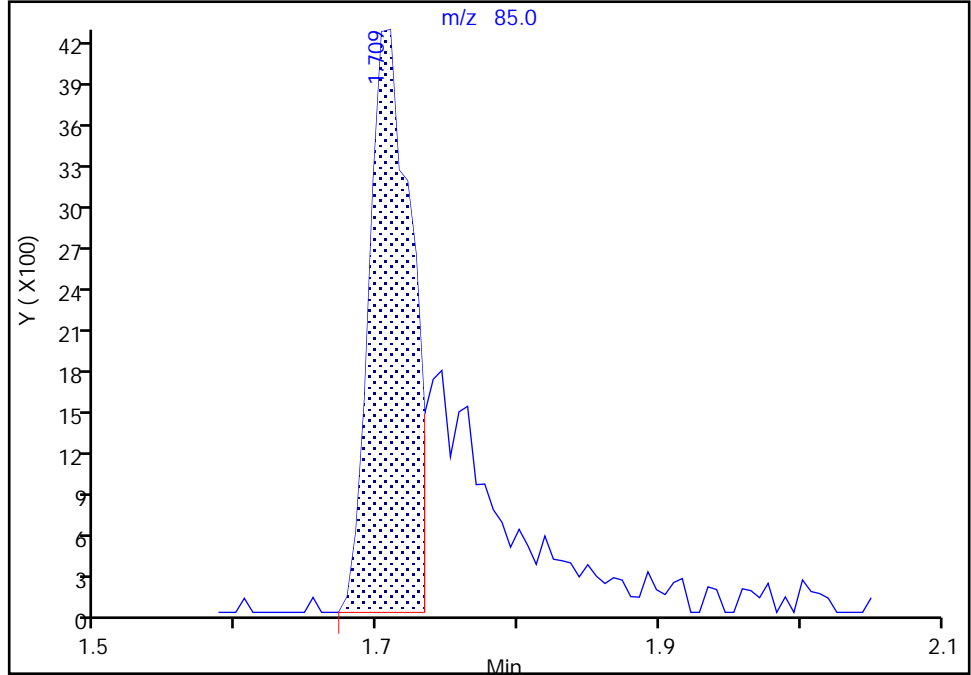
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D  
Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

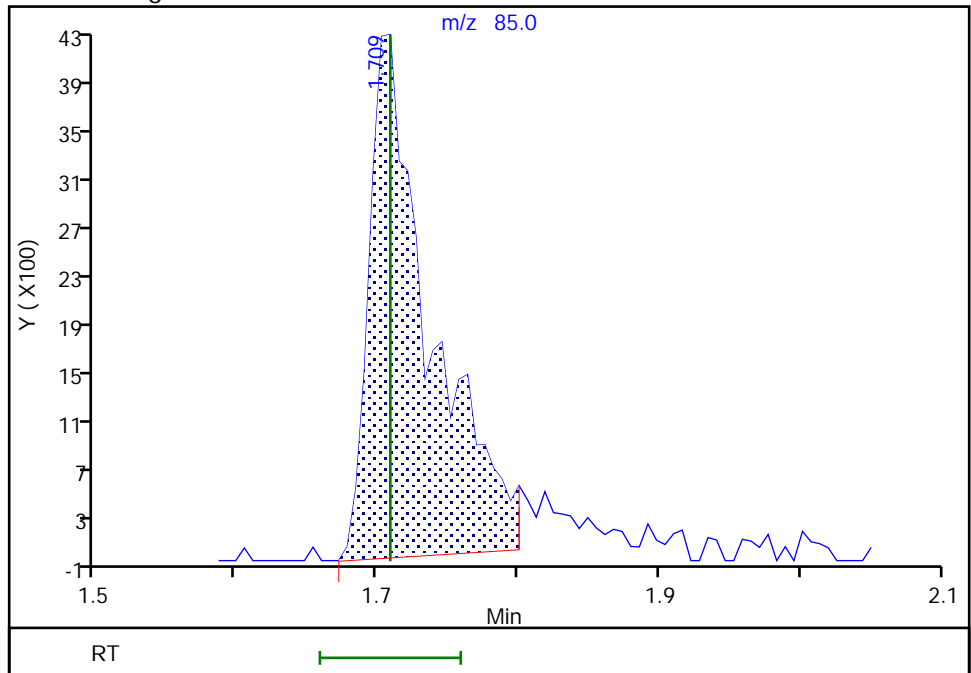
RT: 1.71  
Area: 8823  
Amount: 10.478874  
Amount Units: ug/L

Processing Integration Results



RT: 1.71  
Area: 12822  
Amount: 14.743268  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:47:24  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

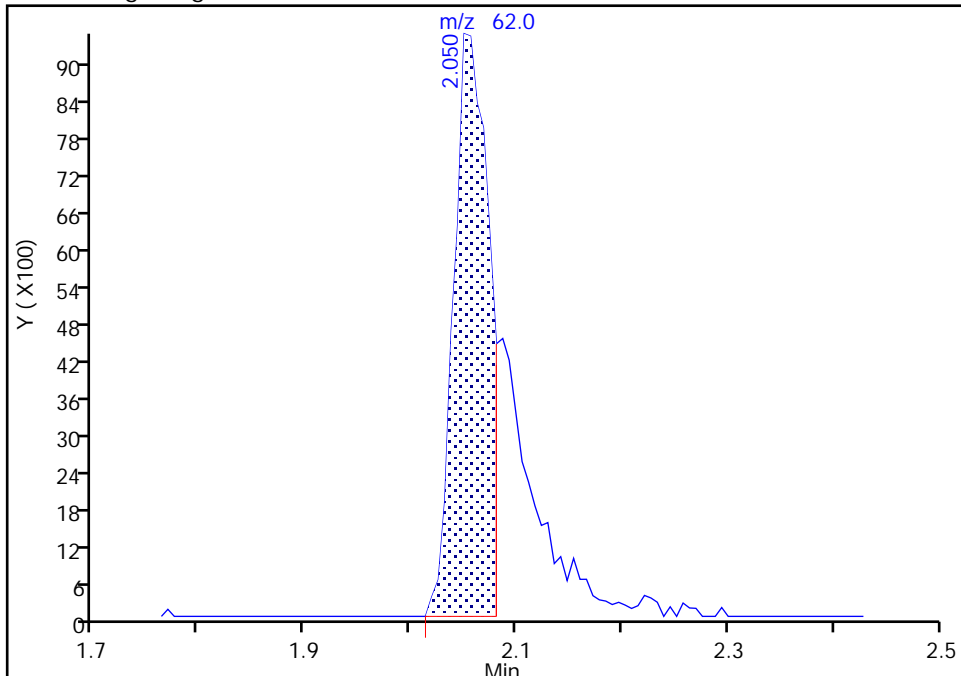
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D  
Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

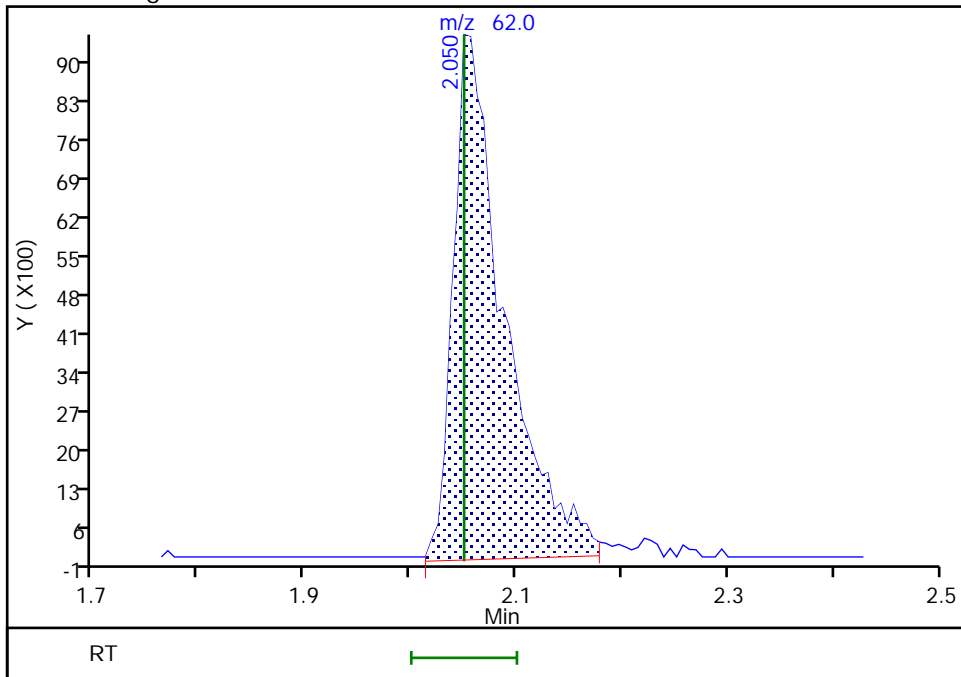
RT: 2.05  
Area: 21849  
Amount: 12.395152  
Amount Units: ug/L

Processing Integration Results



RT: 2.05  
Area: 31910  
Amount: 18.303854  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:47:35  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

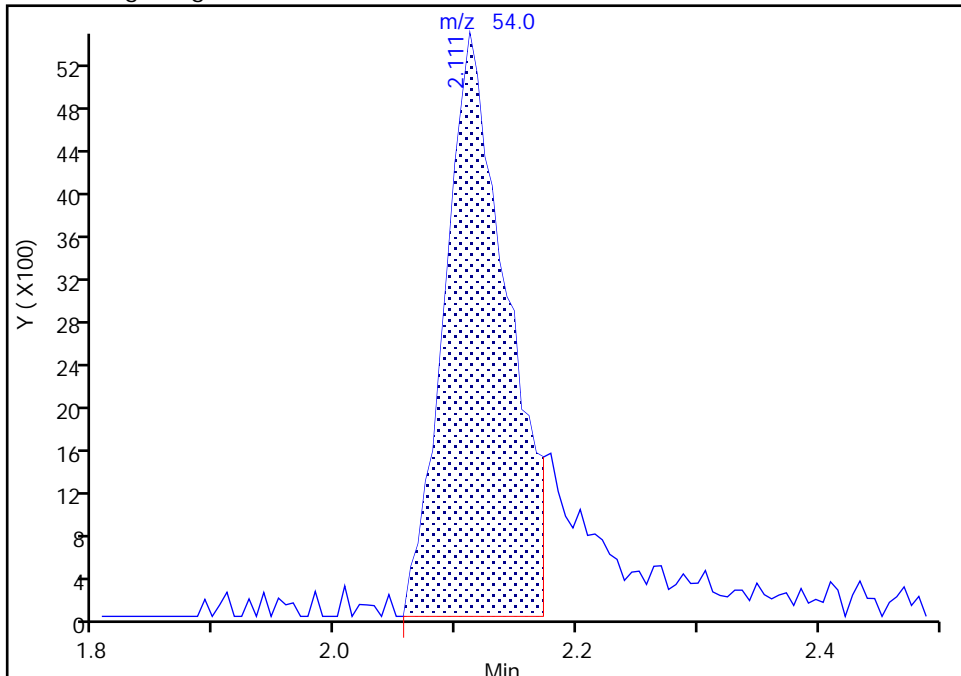
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D  
Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

6 Butadiene, CAS: 106-99-0

Signal: 1

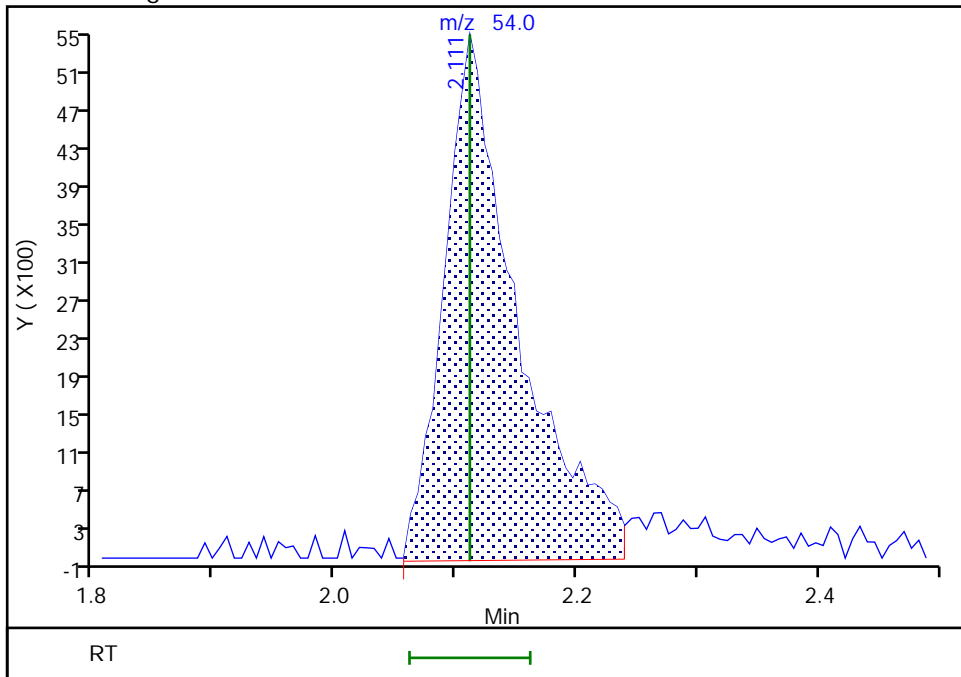
RT: 2.11  
Area: 19779  
Amount: 10.685192  
Amount Units: ug/L

Processing Integration Results



RT: 2.11  
Area: 23400  
Amount: 12.641362  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:47:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

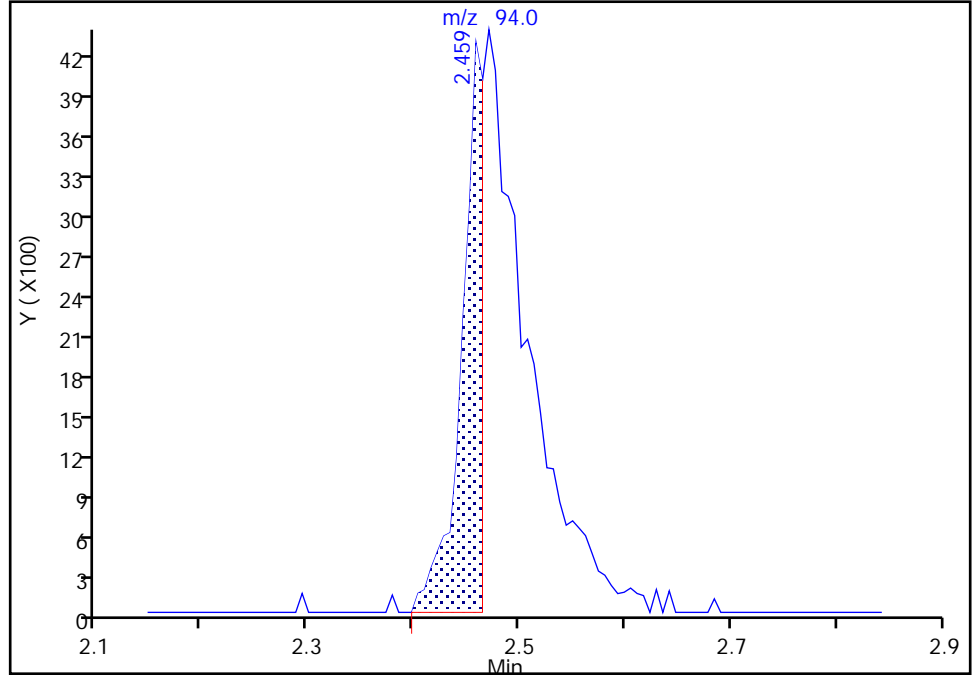
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Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

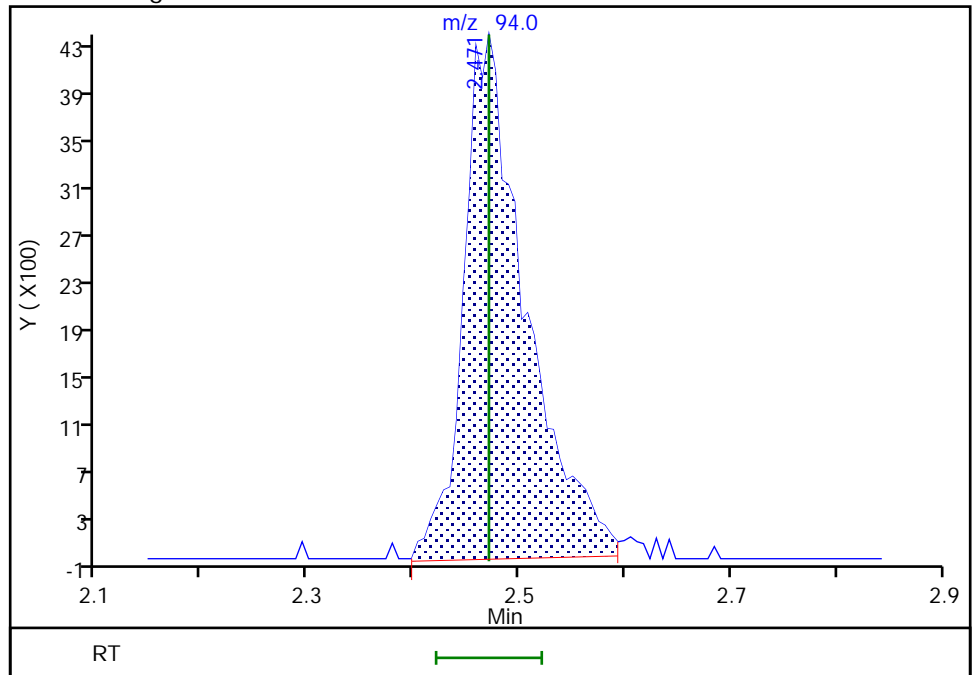
RT: 2.46  
Area: 6168  
Amount: 7.594820  
Amount Units: ug/L

Processing Integration Results



RT: 2.47  
Area: 17791  
Amount: 21.074557  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

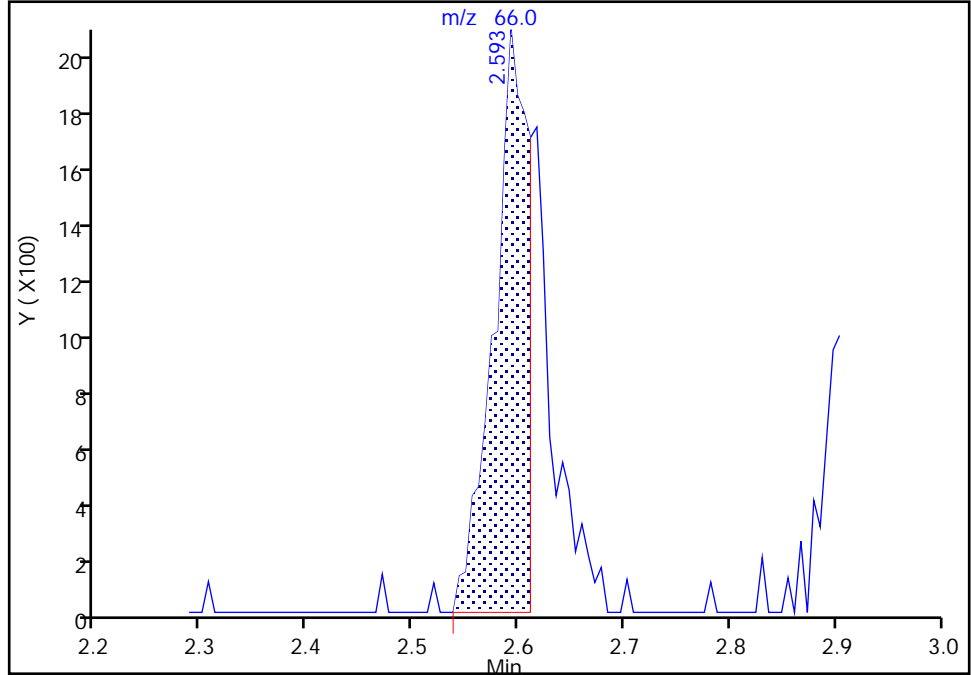
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D  
Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Signal: 1

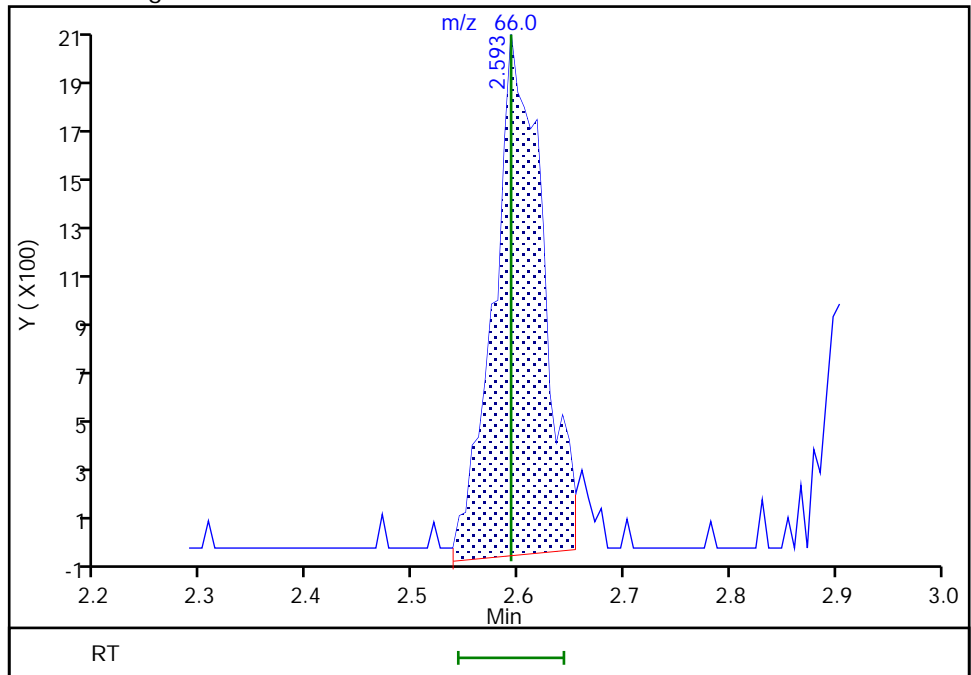
RT: 2.59  
Area: 4577  
Amount: 17.968036  
Amount Units: ug/L

Processing Integration Results



RT: 2.59  
Area: 6658  
Amount: 25.826144  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:47:47  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

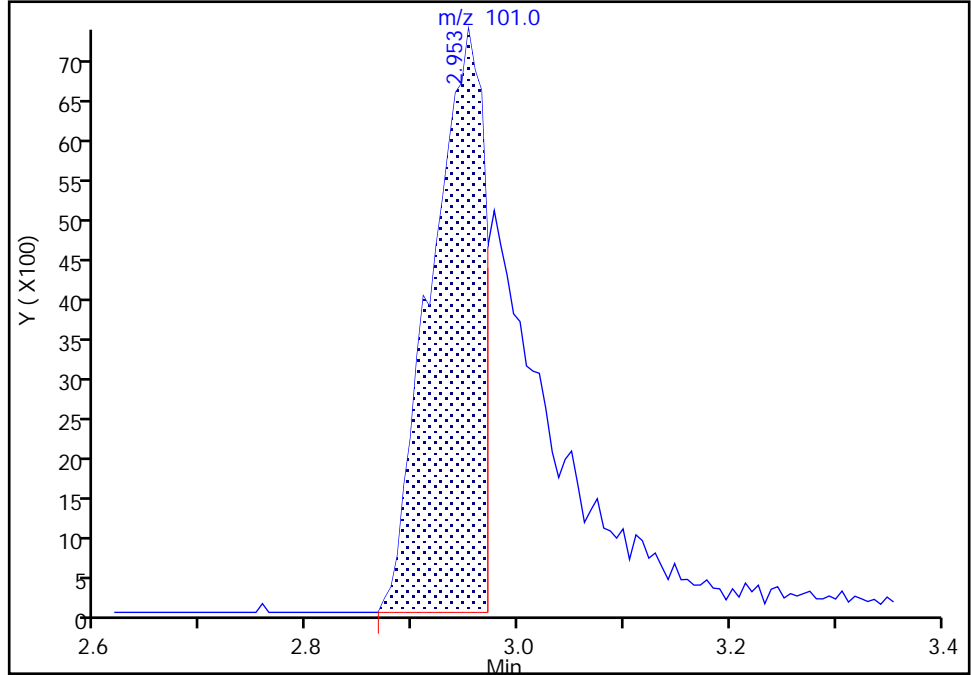
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D  
Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

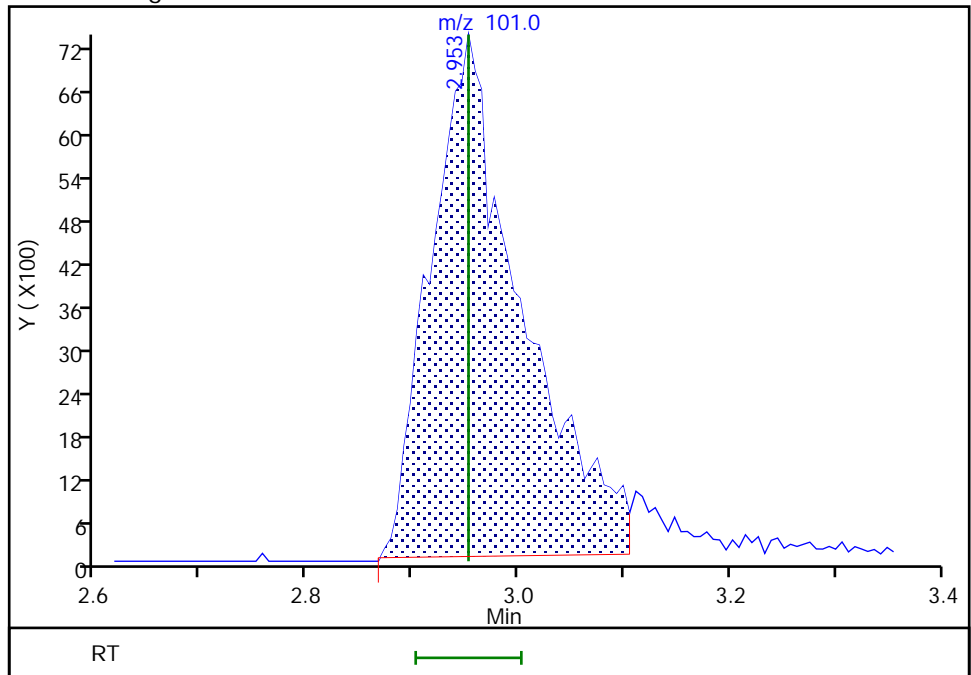
RT: 2.95  
Area: 25951  
Amount: 11.439275  
Amount Units: ug/L

Processing Integration Results



RT: 2.95  
Area: 43653  
Amount: 19.242367  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:47:58  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

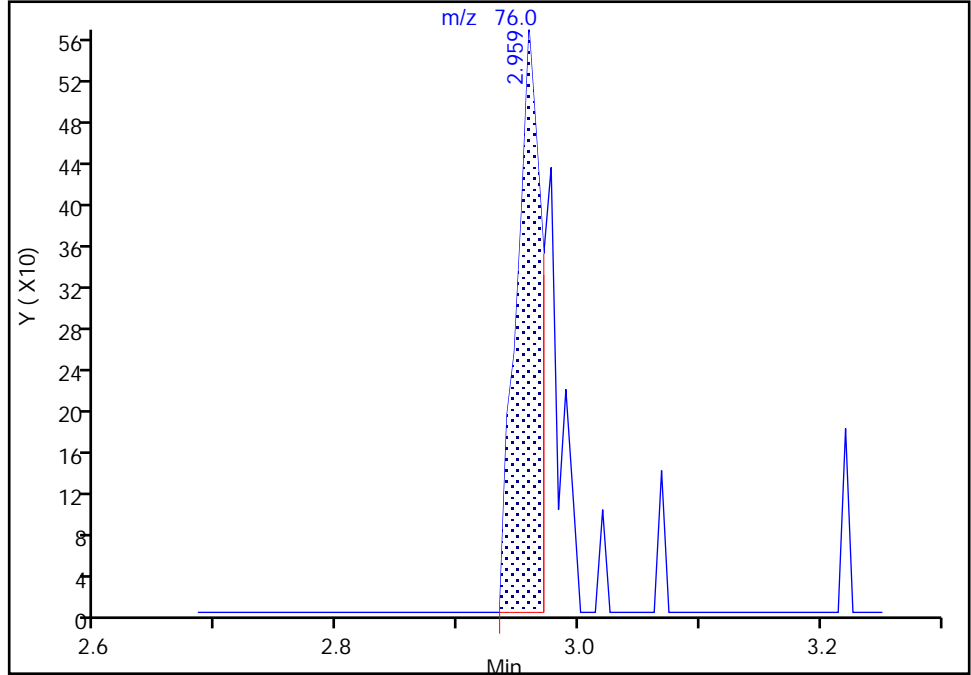
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D  
Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

11 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

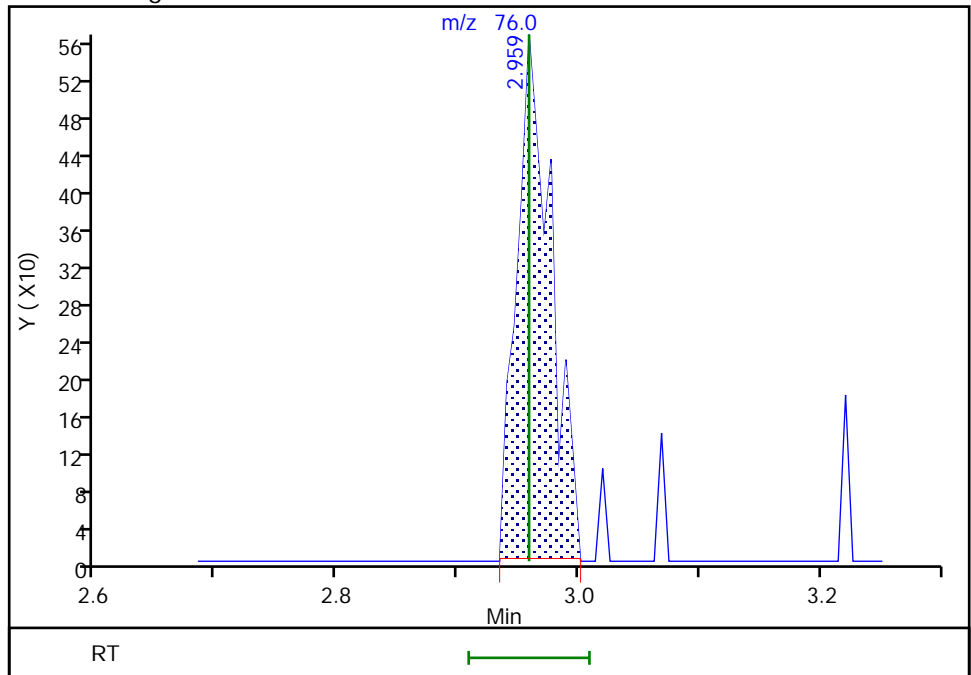
RT: 2.96  
Area: 811  
Amount: 15.920341  
Amount Units: ug/L

Processing Integration Results



RT: 2.96  
Area: 1112  
Amount: 22.245802  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:48:04  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

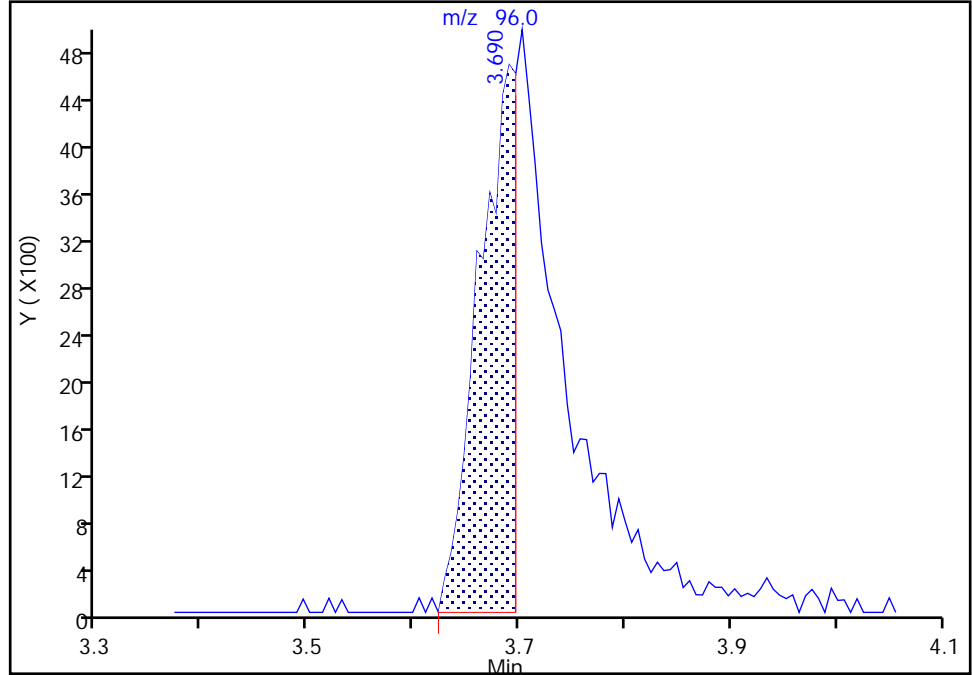
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D  
Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

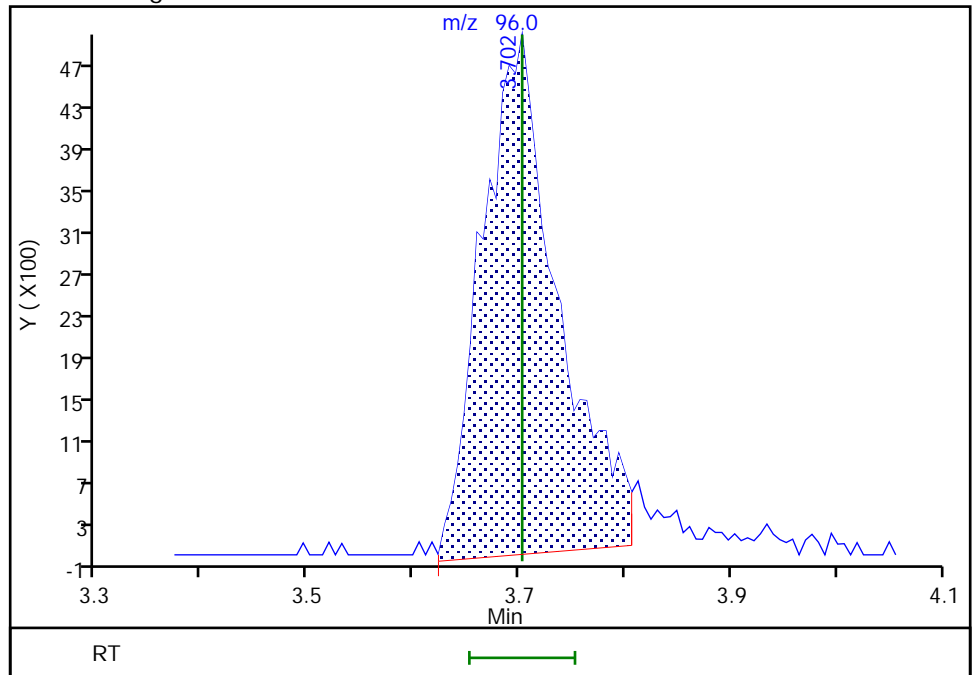
RT: 3.69  
Area: 11557  
Amount: 10.466017  
Amount Units: ug/L

Processing Integration Results



RT: 3.70  
Area: 24777  
Amount: 22.438047  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:48:13  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

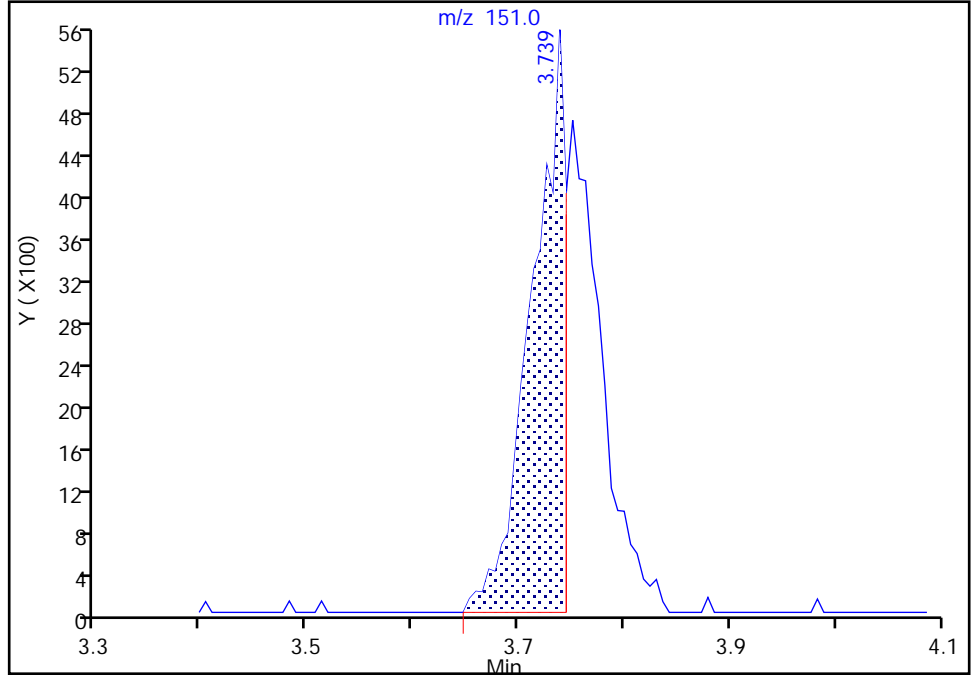
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D  
Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

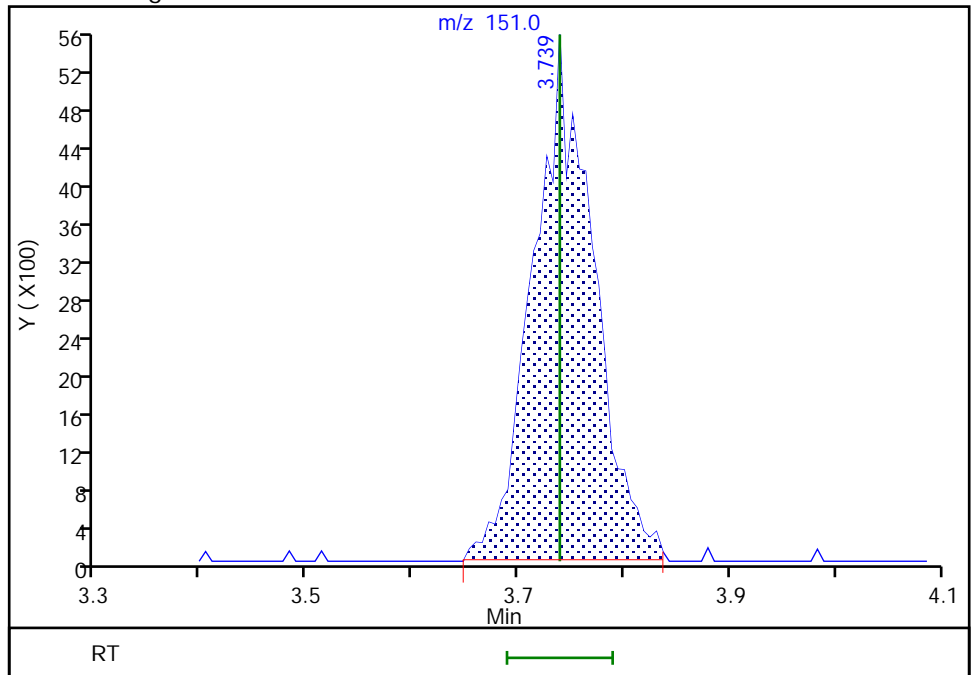
RT: 3.74  
Area: 12359  
Amount: 11.636999  
Amount Units: ug/L

Processing Integration Results



RT: 3.74  
Area: 21963  
Amount: 20.679942  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:48:23  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

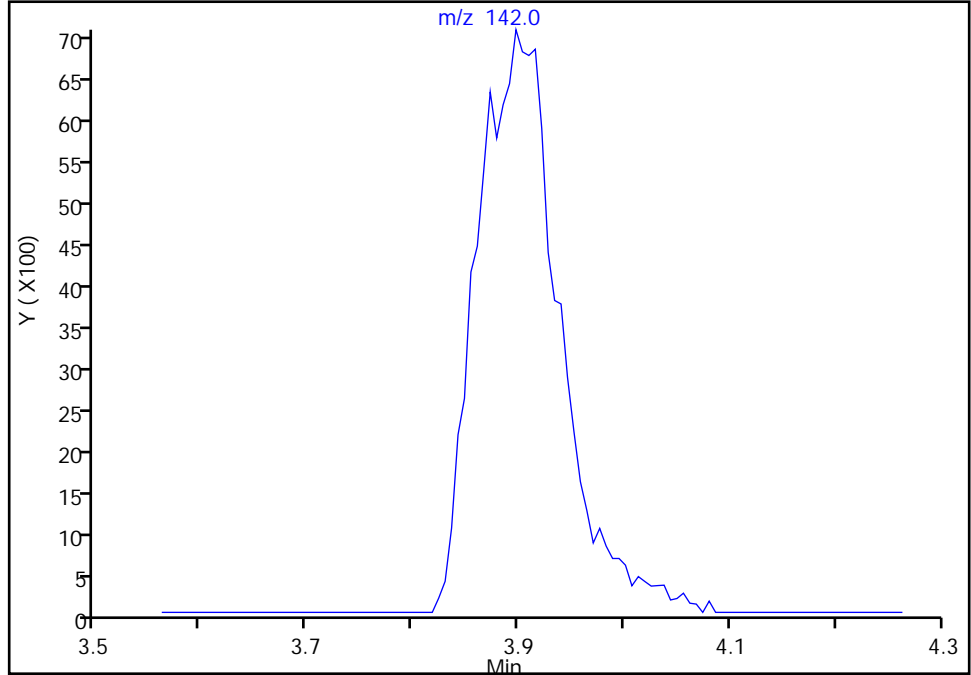
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D  
Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

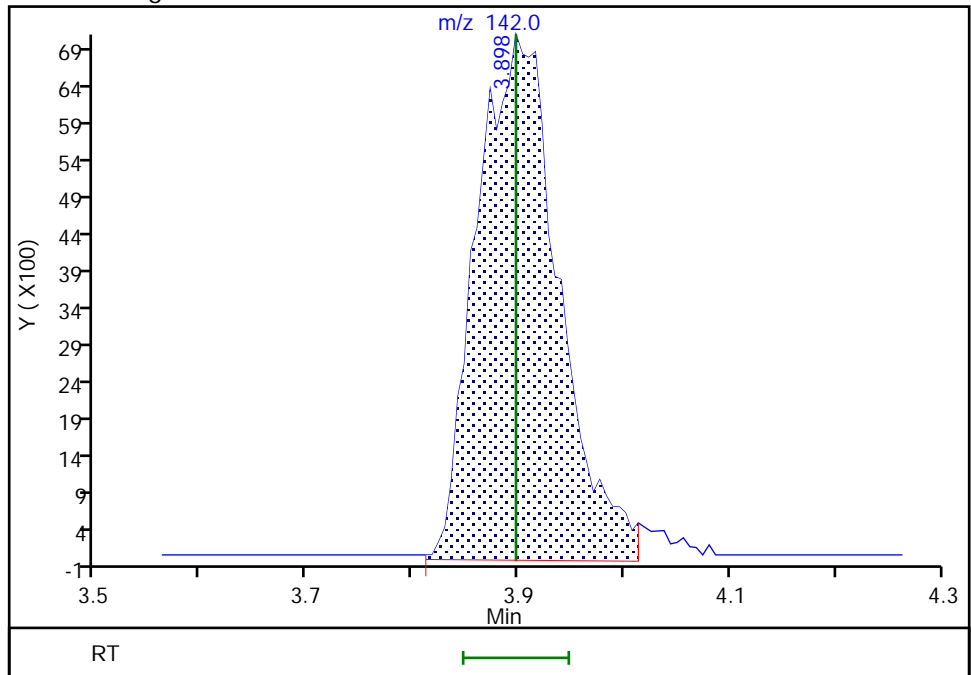
Not Detected  
Expected RT: 3.90

Processing Integration Results



Manual Integration Results

RT: 3.90  
Area: 38597  
Amount: 19.195882  
Amount Units: ug/L



Reviewer: jantanuc, 09-Oct-2020 09:48:32  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

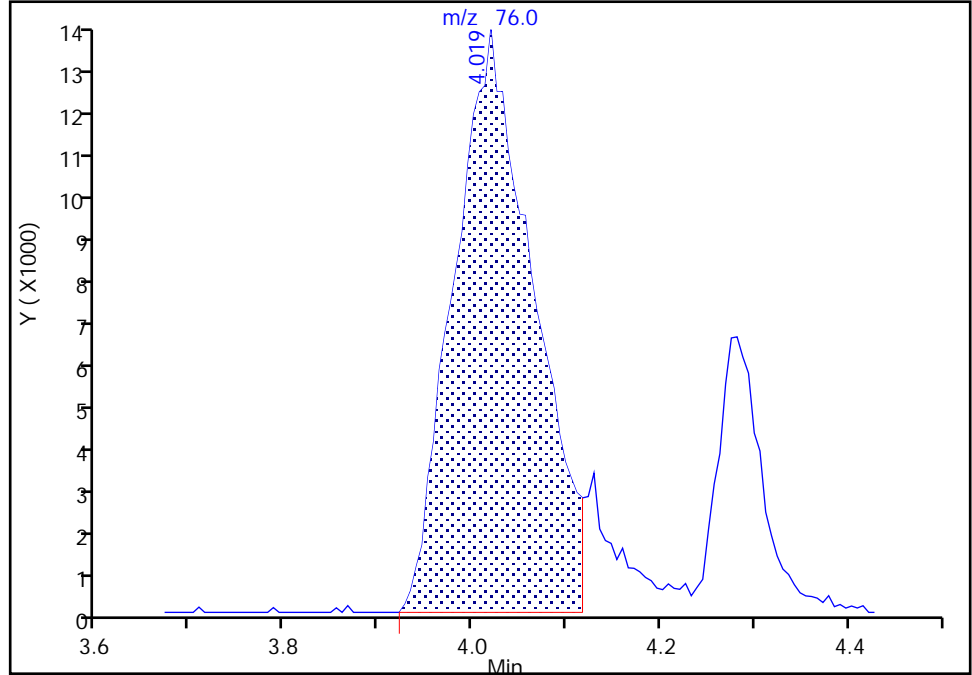
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D  
Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

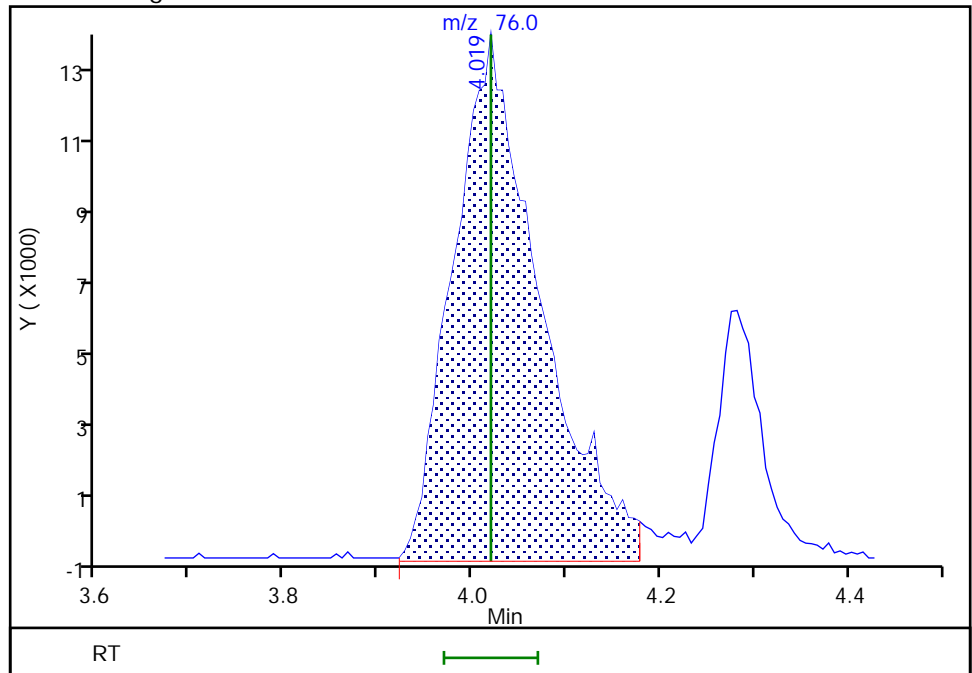
RT: 4.02  
Area: 81781  
Amount: 19.568129  
Amount Units: ug/L

Processing Integration Results



RT: 4.02  
Area: 89467  
Amount: 21.407194  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:48:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

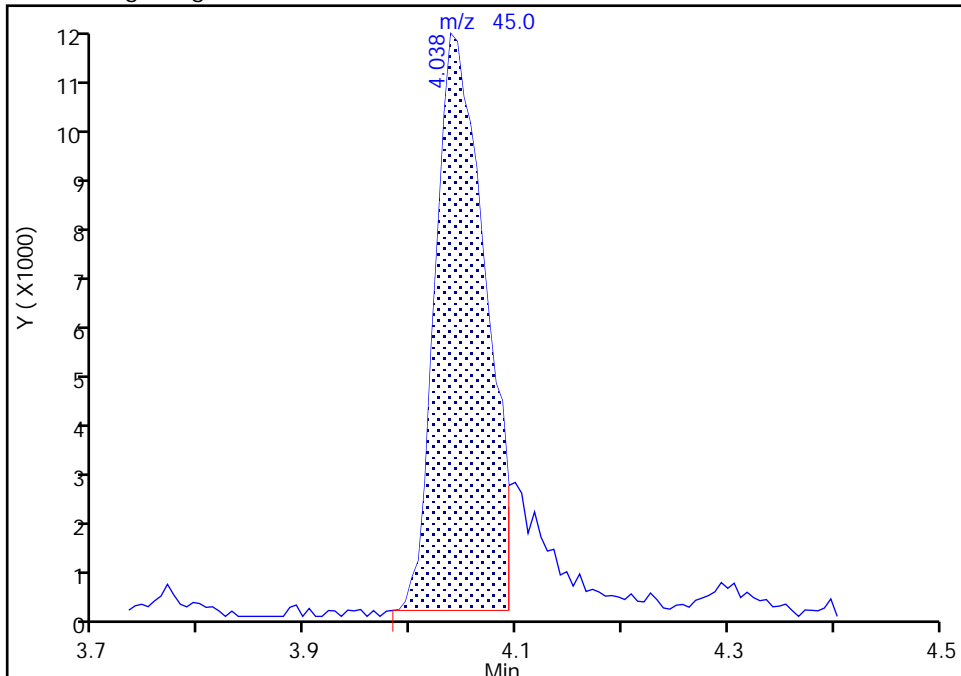
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Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

15 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

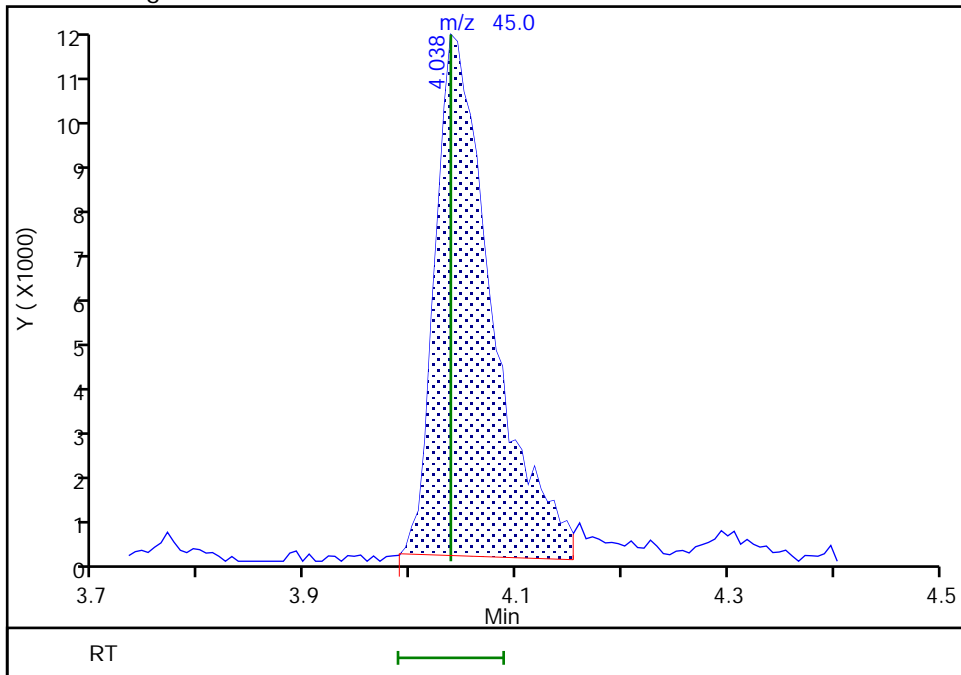
RT: 4.04  
Area: 36425  
Amount: 170.9917  
Amount Units: ug/L

Processing Integration Results



RT: 4.04  
Area: 41644  
Amount: 195.4916  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:52:58  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

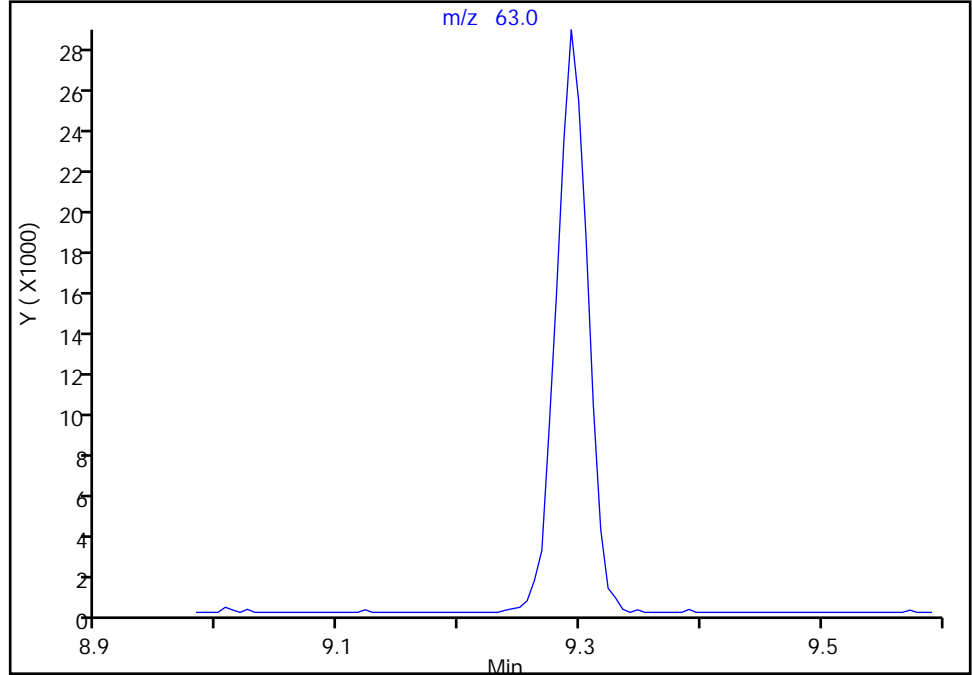
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_003.D  
Injection Date: 07-Oct-2020 14:20:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: jsm ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

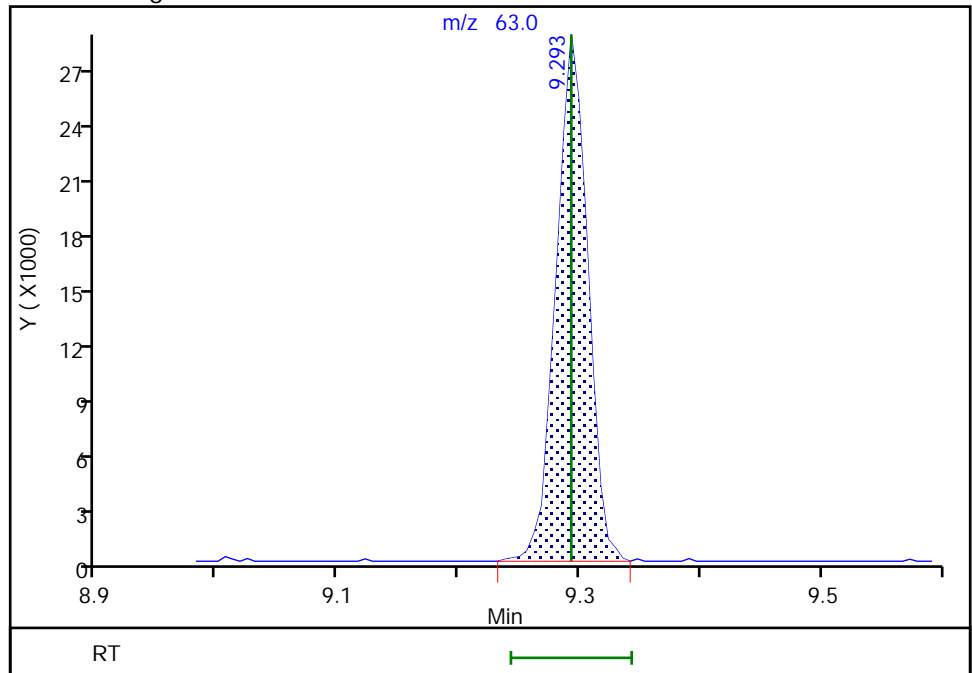
Not Detected  
Expected RT: 9.29

Processing Integration Results



RT: 9.29  
Area: 51979  
Amount: 22.531009  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:53:36  
Audit Action: Assigned Compound ID

Audit Reason: Baseline

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVL 580-340383/6 Calibration Date: 10/07/2020 15:37

Instrument ID: TAC119 Calib Start Date: 10/01/2020 16:55

GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 10/01/2020 20:22

Lab File ID: 10072020\_006.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	Lin1		0.0983*	0.1000	1.78	1.00	78.3	
Chloromethane	Ave	0.4358	0.4908	0.1000	1.13	1.00	12.6	
Vinyl chloride	Lin1		0.2557	0.1000	0.585	1.00	-41.5	
Butadiene	Ave	0.2722	0.1403			1.00	-48.5	
Bromomethane	Lin1		0.1282	0.1000	1.45	1.00	45.3	
Chloroethane	Lin1		0.1665	0.0600	2.09	1.00	108.7	
Dichlorofluoromethane	Ave	0.3270	0.7213		2.21	1.00	120.6	
3-Chloro-1-propene	Lin1		0.0419			1.00	253.9	
Trichlorofluoromethane	Ave	0.3336	0.4579	0.1000	1.37	1.00	37.3	
Ethyl ether	Ave	0.2914	0.6510		2.23	1.00	123.4	
Acrolein	Ave	0.0667	0.3149		28.3	6.00	372.4	
1,1-Dichloroethene	Ave	0.1624	0.2566	0.1000	1.58	1.00	58.1	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1562	0.1725	0.1000	1.10	1.00	10.5	
Acetone	Ave	0.1472	0.8155	0.0200	27.7	5.00	453.9	
Iodomethane	Ave	0.2956	0.3567		1.21	1.00	20.7	
Carbon disulfide	Ave	0.6145	0.7373	0.1000	1.20	1.00	20.0	
Isopropyl alcohol	Ave	1.024	6.146		60.1	10.0	500.5	
Acetonitrile	Ave	0.0186	0.1029		69.3	12.5	454.3	
Methyl acetate	Lin1		1.064	0.1000	6.25	2.00	212.6	
Methylene Chloride	Lin2		1.027	0.1000		1.00	78.3	
2-Methyl-2-propanol	Ave	0.0431	0.2748		63.8	10.0	537.5	
Acrylonitrile	Lin2		0.6408		52.1	10.0	420.7	
trans-1,2-Dichloroethene	Ave	0.2510	0.6934	0.1000	2.76	1.00	176.2	
Methyl tert-butyl ether	Lin1		3.413	0.1000	4.68	1.00	368.1	
Hexane	Lin2		1.159			1.00	-90.3	
1,1-Dichloroethane	Ave	0.5880	2.099	0.2000	3.57	1.00	257.0	
Vinyl acetate	Ave	0.0563	0.2690		11.9	2.50	377.9	
2-Chloro-1,3-butadiene	Ave	0.7324	1.909		2.61	1.00	160.6	
Isopropyl ether	Ave	1.444	6.832		5.92	1.25	373.2	
Tert-butyl ethyl ether	Ave	0.3324	1.756		6.60	1.25	428.3	
2,2-Dichloropropane	Ave	0.3929	1.603		4.08	1.00	308.0	
2-Butanone (MEK)	Ave	0.0305	0.1910	0.0200	31.3	5.00	525.9	
cis-1,2-Dichloroethene	Ave	0.2818	1.392	0.1000	4.94	1.00	393.8	
Propionitrile	Ave	0.0490	0.2845		72.5	12.5	480.3	
Ethyl acetate	Ave	0.4105	2.135		10.4	2.00	420.0	
Methacrylonitrile	Ave	0.1061	0.6721		63.4	10.0	533.7	
Chlorobromomethane	Ave	0.1672	0.9009		5.39	1.00	438.9	
Chloroform	Ave	0.5029	2.772	0.2000	5.51	1.00	451.2	
1,1,1-Trichloroethane	Ave	0.4229	1.770	0.1000	4.19	1.00	318.6	
Cyclohexane	Ave	0.3611	0.6137	0.1000	1.70	1.00	69.9	



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 580-340383/6 Calibration Date: 10/07/2020 15:37  
 Instrument ID: TAC119 Calib Start Date: 10/01/2020 16:55  
 GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 10/01/2020 20:22  
 Lab File ID: 10072020\_006.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
Carbon tetrachloride	Lin1		1.593	0.1000	4.03	1.00	303.5	
1,1-Dichloropropene	Ave	0.3858	1.499		3.89	1.00	288.5	
Benzene	Ave	1.056	4.897	0.5000	4.64	1.00	363.7	
Isobutyl alcohol	Ave	0.7601	3.858		127	25.0	407.6	
1,2-Dichloroethane	Ave	0.4957	2.684	0.1000	5.41	1.00	441.4	
Tert-amyl methyl ether	Ave	0.7744	4.207		6.79	1.25	443.2	
n-Heptane	Ave	0.7626	1.299		1.70	1.00	70.3	
Tetrahydrofuran	Lin1		0.2112		3.16	2.00	57.8	
Trichloroethene	Ave	0.2890	1.633	0.2000	5.65	1.00	465.2	
Ethyl acrylate	Ave	0.5523	2.950		5.34	1.00	434.2	
Methylcyclohexane	Ave	0.4719	1.249	0.1000	2.65	1.00	164.7	
n-Butanol	Ave	0.0077	0.0170			25.0	120.8	
1,2-Dichloropropane	Ave	0.3392	1.983	0.1000	5.85	1.00	484.7	
Dibromomethane	Ave	0.1493	0.9776		6.55	1.00	554.9	
Methyl methacrylate	Ave	0.1773	1.169		13.2	2.00	558.9	
Dichlorobromomethane	Ave	0.3941	2.341	0.2000	5.94	1.00	493.9	
2-Nitropropane	Ave	0.1851	0.9350		10.1	2.00	405.2	
2-Chloroethyl vinyl ether	Lin2		0.6643		3.20	1.00	219.5	
cis-1,3-Dichloropropene	Ave	0.5881	3.745	0.2000	6.37	1.00	536.9	
4-Methyl-2-pentanone (MIBK)	Ave	0.1673	1.084	0.0600	32.4	5.00	548.2	
Toluene	Ave	1.550	9.506	0.4000	6.13	1.00	513.2	
n-Butyl acetate	Lin1		0.5519		4.46	1.00	346.1	
trans-1,3-Dichloropropene	Ave	0.5369	3.454	0.1000	6.43	1.00	543.3	
Ethyl methacrylate	Ave	0.4045	2.659		6.57	1.00	557.3	
1,1,2-Trichloroethane	Lin2		1.985	0.1000	6.92	1.00	592.4	
Tetrachloroethene	Ave	0.6896	4.409	0.2000	6.39	1.00	539.4	
1,3-Dichloropropane	Ave	0.4971	3.479		7.00	1.00	599.9	
2-Hexanone	Ave	0.1640	1.112	0.0600	33.9	5.00	577.9	
Chlorodibromomethane	Ave	0.3619	2.084	0.1000	5.76	1.00	475.8	
Ethylene Dibromide	Lin1		1.850	0.1000	6.64	1.00	564.1	
Chlorobenzene	Ave	0.9682	6.627	0.5000	6.85	1.00	584.5	
1,1,1,2-Tetrachloroethane	Ave	0.3708	2.311		6.23	1.00	523.1	
Ethylbenzene	Lin2		10.83	0.1000	6.64	1.00	564.1	
m-Xylene & p-Xylene	Ave	1.408	8.519	0.1000	6.05	1.00	505.0	
o-Xylene	Lin2		8.586	0.3000	6.42	1.00	542.2	
Styrene	Ave	0.9382	5.997	0.3000	6.39	1.00	539.2	
Bromoform	Ave	0.2162	1.387	0.1000	6.41	1.00	541.3	
Isopropylbenzene	Ave	1.592	10.35	0.1000	6.50	1.00	550.3	
1,1,2,2-Tetrachloroethane	Lin1		5.185	0.3000	6.69	1.00	568.6	
Bromobenzene	Ave	0.8548	5.305		6.21	1.00	520.6	
trans-1,4-Dichloro-2-butene	Lin2		2.147		5.04	1.00	404.2	

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 580-340383/6 Calibration Date: 10/07/2020 15:37  
 Instrument ID: TAC119 Calib Start Date: 10/01/2020 16:55  
 GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 10/01/2020 20:22  
 Lab File ID: 10072020\_006.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
1,2,3-Trichloropropane	Ave	0.2424	1.690		6.97	1.00	597.2	
N-Propylbenzene	Ave	4.225	28.94		6.85	1.00	584.9	
2-Chlorotoluene	Ave	0.8512	5.762		6.77	1.00	577.0	
1,3,5-Trimethylbenzene	Ave	3.054	20.03		6.56	1.00	556.0	
4-Chlorotoluene	Ave	0.8857	5.703		6.44	1.00	543.9	
tert-Butylbenzene	Ave	2.806	18.87		6.72	1.00	572.2	
1,2,4-Trimethylbenzene	Ave	3.050	19.95		6.54	1.00	554.1	
sec-Butylbenzene	Ave	3.948	27.16		6.88	1.00	587.8	
1,3-Dichlorobenzene	Ave	1.548	10.73	0.6000	6.93	1.00	593.1	
4-Isopropyltoluene	Ave	3.275	21.97		6.71	1.00	571.0	
1,4-Dichlorobenzene	Ave	1.551	10.30	0.5000	6.64	1.00	564.4	
1,2,3-Trimethylbenzene	Ave	3.237	20.41		6.31	1.00	530.6	
Benzyl chloride	Ave	0.3320	2.031		6.12	1.00	511.6	
n-Butylbenzene	Ave	0.8108	5.490		6.77	1.00	577.2	
1,2-Dichlorobenzene	Ave	1.481	10.03	0.4000	6.77	1.00	577.0	
1,2-Dibromo-3-Chloropropane	Ave	0.1595	1.029	0.0500	6.45	1.00	545.3	
1,3,5-Trichlorobenzene	Ave	1.140	7.183		6.30	1.00	530.1	
1,2,4-Trichlorobenzene	Ave	0.9648	6.839	0.2000	7.09	1.00	608.8	
Hexachlorobutadiene	Ave	0.5918	4.081		6.90	1.00	589.6	
Naphthalene	Ave	2.629	18.42		7.01	1.00	600.6	
1,2,3-Trichlorobenzene	Ave	0.9932	6.734		6.78	1.00	578.0	
Dibromofluoromethane (Surr)	Ave	0.2661	0.2462		9.25	10.0	-7.5	
1,2-Dichloroethane-d4 (Surr)	Ave	0.3624	0.3208		8.85	10.0	-11.5	
Toluene-d8 (Surr)	Ave	1.257	1.277		10.2	10.0	1.5	
4-Bromofluorobenzene (Surr)	Ave	0.3613	0.3393		9.39	10.0	-6.1	

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
 Lims ID: ccvl  
 Client ID:  
 Sample Type: CCVL  
 Inject. Date: 07-Oct-2020 15:37:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ccvl  
 Operator ID: jsm Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 10:22:29 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc

Date: 09-Oct-2020 10:22:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.709	1.709	0.000	1	670	1.00	1.78	M
4 Chloromethane	50	1.910	1.922	-0.012	44	3345	1.00	1.13	M
5 Vinyl chloride	62	2.056	2.050	0.006	31	1743	1.00	0.5850	M
6 Butadiene	54	2.093	2.111	-0.018	64	956	1.00	0.5154	M
7 Bromomethane	94	2.452	2.471	-0.019	23	874	1.00	1.45	M
8 Chloroethane	66	2.574	2.593	-0.019	1	372	1.00	2.09	M
10 Dichlorofluoromethane	67	2.910	2.916	-0.006	61	4916	1.00	2.21	M
14 Trichlorofluoromethane	101	2.952	2.953	-0.001	43	3121	1.00	1.37	M
11 3-Chloro-1-propene	76	2.952	2.959	-0.007	7	224	1.00	3.54	M
17 Ethyl ether	59	3.330	3.331	-0.001	75	4437	1.00	2.23	
12 Acrolein	56	3.519	3.513	0.006	83	12878	6.00	28.3	
19 1,1-Dichloroethene	96	3.696	3.702	-0.006	42	1749	1.00	1.58	M
16 Acetone	43	3.745	3.733	0.012	96	27791	5.00	27.7	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.739	3.739	0.000	1	1176	1.00	1.10	M
22 Iodomethane	142	3.910	3.898	0.012	68	2431	1.00	1.21	M
26 Carbon disulfide	76	4.025	4.019	0.006	60	5025	1.00	1.20	M
15 Isopropyl alcohol	45	4.044	4.038	0.006	87	12782	10.0	60.1	M
S 2 Xylenes, Total	100				0		2.00	12.5	
13 Acetonitrile	40	4.214	4.208	0.006	88	8769	12.5	69.3	M
24 Methyl acetate	43	4.312	4.300	0.012	95	14502	2.00	6.25	M
23 Methylene Chloride	84	4.537	4.538	-0.001	81	6998	1.00	1.78	M
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	41592	200.0	200.0	
20 2-Methyl-2-propanol	59	4.812	4.812	0.000	93	18732	10.0	63.8	
21 Acrylonitrile	53	4.982	4.977	0.005	97	43673	10.0	52.1	
27 trans-1,2-Dichloroethene	96	5.062	5.062	0.000	50	4726	1.00	2.76	M
28 Methyl tert-butyl ether	73	5.074	5.074	0.000	80	23259	1.00	4.68	
34 Hexane	57	5.641	5.635	0.006	76	7896	1.00	0.0973	
30 1,1-Dichloroethane	63	5.897	5.903	-0.006	72	14308	1.00	3.57	
31 Vinyl acetate	86	5.988	5.976	0.012	97	4584	2.50	11.9	M
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	45	13010	1.00	2.61	
35 Isopropyl ether	45	6.049	6.056	-0.007	57	58201	1.25	5.92	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.702	6.696	0.006	97	14959	1.25	6.60	M
43 2,2-Dichloropropane	77	6.909	6.909	0.000	53	10926	1.00	4.08	
33 2-Butanone (MEK)	72	6.927	6.927	0.000	96	6510	5.00	31.3	
37 cis-1,2-Dichloroethene	96	6.927	6.927	0.000	50	9485	1.00	4.94	
29 Propionitrile	54	7.019	7.007	0.012	92	24240	12.5	72.5	
38 Ethyl acetate	43	7.055	7.055	0.000	93	29097	2.00	10.4	
36 Methacrylonitrile	67	7.263	7.257	0.006	95	45804	10.0	63.4	
39 Chlorobromomethane	130	7.299	7.305	-0.006	66	6140	1.00	5.39	
40 Chloroform	83	7.506	7.507	-0.001	91	18890	1.00	5.51	
48 1,1,1-Trichloroethane	97	7.701	7.708	-0.007	89	12065	1.00	4.19	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.738	-0.006	57	16781	10.0	9.25	
51 Cyclohexane	84	7.793	7.799	-0.006	82	4183	1.00	1.70	
52 Carbon tetrachloride	117	7.927	7.927	0.000	76	10860	1.00	4.03	
50 1,1-Dichloropropene	75	7.939	7.946	-0.007	78	10215	1.00	3.89	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	21867	10.0	8.85	
53 Benzene	78	8.195	8.195	0.000	90	33376	1.00	4.64	
42 Isobutyl alcohol	43	8.207	8.202	0.005	85	20060	25.0	126.9	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	86	18291	1.00	5.41	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	88	35839	1.25	6.79	
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	97	68155	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.634	0.000	12	2879	2.00	3.16	
56 n-Heptane	43	8.634	8.634	0.000	57	8852	1.00	1.70	
61 Trichloroethene	132	9.024	9.025	-0.001	91	11133	1.00	5.65	
57 Ethyl acrylate	55	9.158	9.153	0.005	96	20108	1.00	5.34	
66 Methylcyclohexane	83	9.262	9.262	0.000	93	8513	1.00	2.65	
49 n-Butanol	56	9.262	9.268	-0.006	34	2900	25.0	55.2	M
60 1,2-Dichloropropane	63	9.293	9.293	0.000	89	13517	1.00	5.85	
59 Dibromomethane	174	9.384	9.390	-0.006	55	6663	1.00	6.55	
63 Methyl methacrylate	69	9.396	9.396	0.000	86	15929	2.00	13.2	
62 Dichlorobromomethane	83	9.591	9.592	-0.001	86	15954	1.00	5.94	
58 2-Nitropropane	43	9.799	9.799	0.000	99	12745	2.00	10.1	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	76	3552	1.00	3.20	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	78	20026	1.00	6.37	
68 4-Methyl-2-pentanone (MIBK)	58	10.170	10.171	-0.001	98	28984	5.00	32.4	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	68251	10.0	10.2	
74 Toluene	91	10.341	10.341	0.000	97	50825	1.00	6.13	
70 n-Butyl acetate	43	10.475	10.475	0.000	83	2951	1.00	4.46	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	90	18465	1.00	6.43	
73 Ethyl methacrylate	69	10.628	10.622	0.006	91	14215	1.00	6.57	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	89	10614	1.00	6.92	
79 Tetrachloroethene	164	10.817	10.817	0.000	86	9851	1.00	6.39	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	95	18603	1.00	7.00	
76 2-Hexanone	58	10.933	10.933	0.000	99	29724	5.00	33.9	
77 Chlorodibromomethane	129	11.079	11.079	0.000	80	11141	1.00	5.76	
78 Ethylene Dibromide	107	11.170	11.170	0.000	95	9889	1.00	6.64	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	89	53467	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	92	35434	1.00	6.85	
80 1,1,1,2-Tetrachloroethane	131	11.682	11.683	-0.001	41	12354	1.00	6.23	
83 Ethylbenzene	91	11.682	11.683	-0.001	98	57895	1.00	6.64	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	45546	1.00	6.05	
88 o-Xylene	91	12.115	12.115	0.000	94	45909	1.00	6.42	
86 Styrene	104	12.134	12.134	0.000	94	32065	1.00	6.39	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	84	7414	1.00	6.41	
91 Isopropylbenzene	105	12.414	12.414	0.000	96	55339	1.00	6.50	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	81	18139	10.0	9.39	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	91	11585	1.00	6.69	
93 Bromobenzene	156	12.676	12.682	-0.006	94	11853	1.00	6.21	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	51	4796	1.00	5.04	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	37	3777	1.00	6.97	
94 N-Propylbenzene	91	12.749	12.749	0.000	89	64655	1.00	6.85	
95 2-Chlorotoluene	126	12.829	12.835	-0.006	94	12875	1.00	6.77	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	86	44755	1.00	6.56	
96 4-Chlorotoluene	126	12.926	12.926	0.000	95	12743	1.00	6.44	
98 tert-Butylbenzene	119	13.152	13.152	0.000	92	42152	1.00	6.72	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	45	44572	1.00	6.54	
100 sec-Butylbenzene	105	13.322	13.323	0.000	94	60674	1.00	6.88	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	94	23978	1.00	6.93	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	96	49095	1.00	6.71	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	92	22343	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	89	23020	1.00	6.64	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	75	45610	1.00	6.31	
101 Benzyl chloride	126	13.597	13.591	0.006	94	4537	1.00	6.12	
108 n-Butylbenzene	134	13.767	13.761	0.006	96	12267	1.00	6.77	
107 1,2-Dichlorobenzene	146	13.792	13.798	-0.006	89	22410	1.00	6.77	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.402	-0.001	47	2300	1.00	6.45	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	93	16049	1.00	6.30	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	91	15280	1.00	7.09	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	88	9118	1.00	6.90	
112 Naphthalene	128	15.249	15.249	0.000	96	41158	1.00	7.01	
114 1,2,3-Trichlorobenzene	180	15.419	15.420	-0.001	92	15045	1.00	6.78	
\$ 118 BFB	95	12.560	12.560	0.000	81	24591	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

#### Review Flags

M - Manually Integrated

### Reagents:

VOAMasterMix\_00057

Amount Added: 0.10

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D

Injection Date: 07-Oct-2020 15:37:30

Instrument ID: TAC119

Lims ID: ccvl

Client ID:

Operator ID: jsm

ALS Bottle#: 6

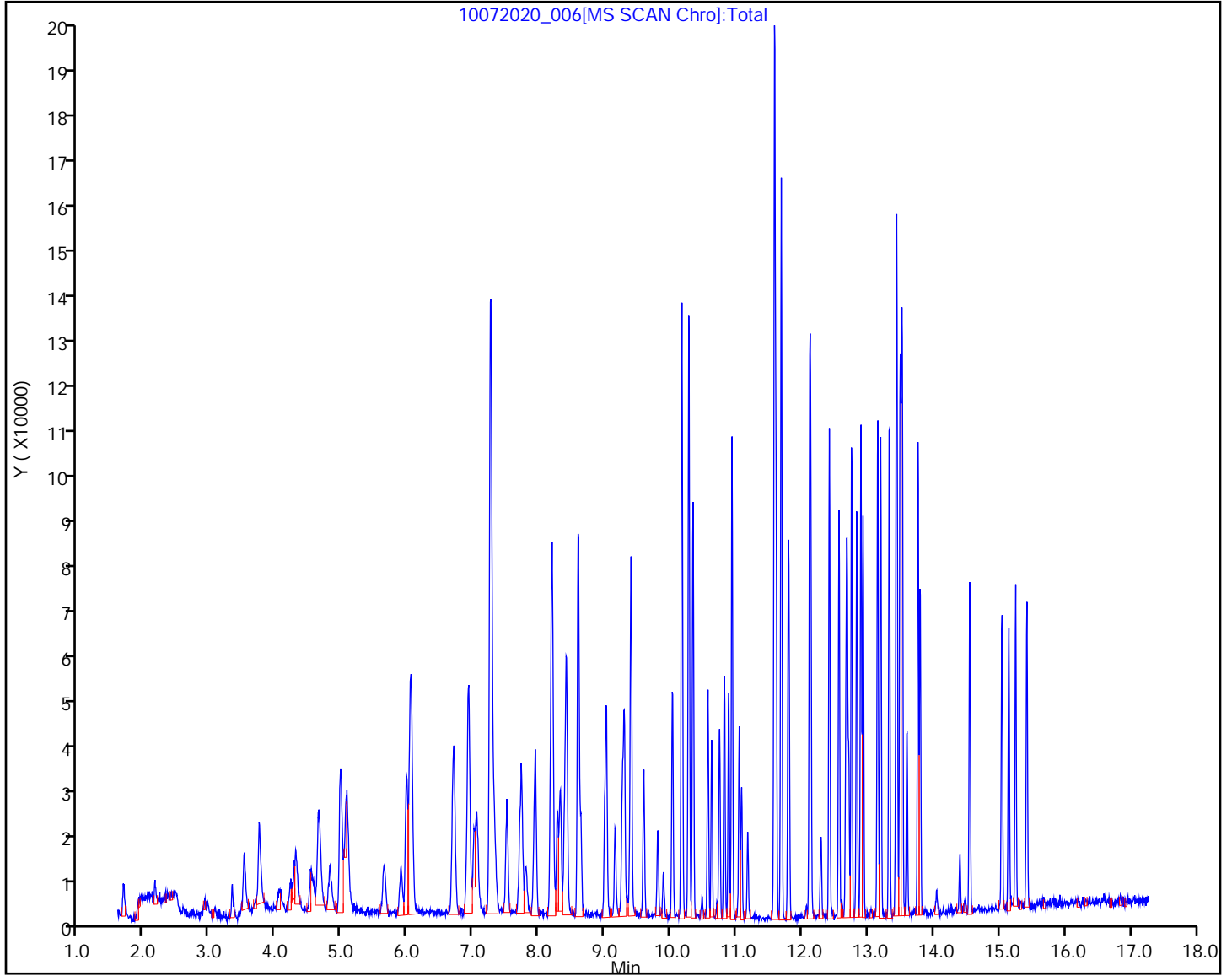
Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

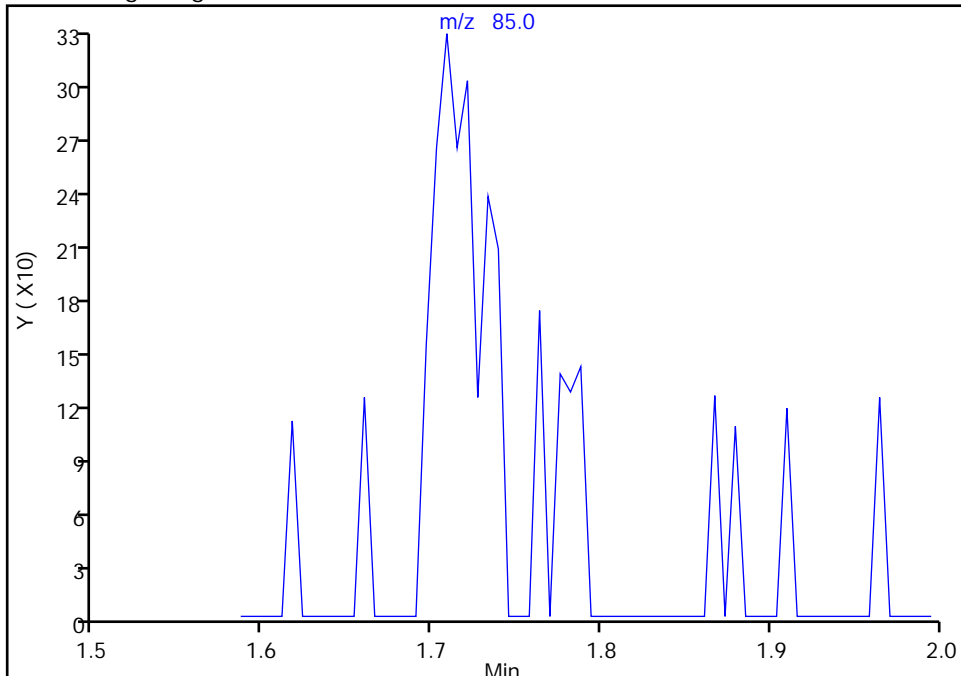
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

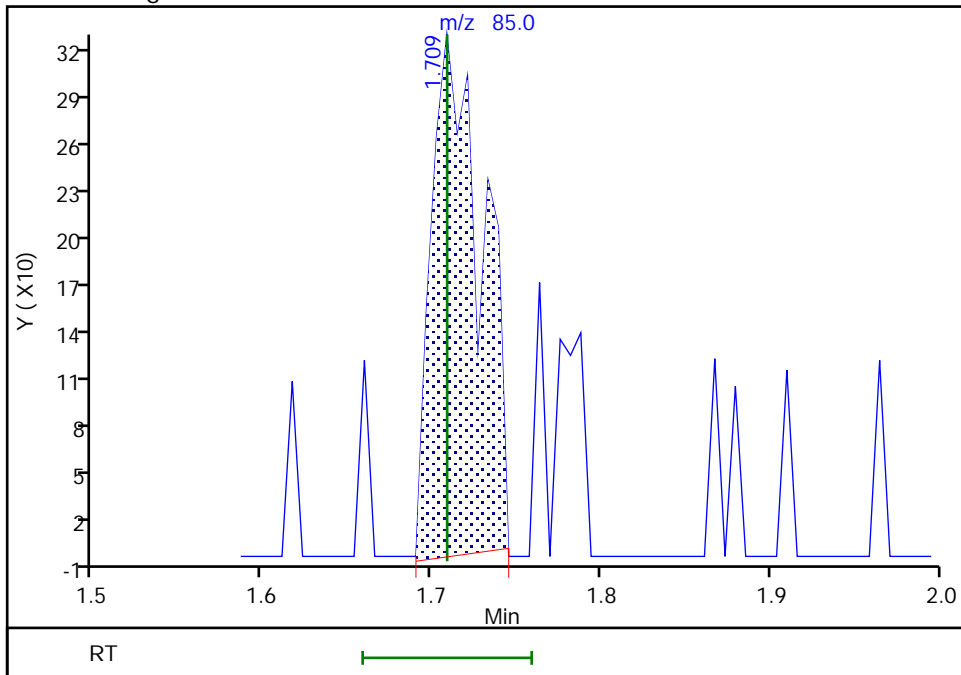
Signal: 1

Not Detected  
Expected RT: 1.71

Processing Integration Results



Manual Integration Results



RT: 1.71  
Area: 670  
Amount: 1.783310  
Amount Units: ug/L

Eurofins TestAmerica, Seattle

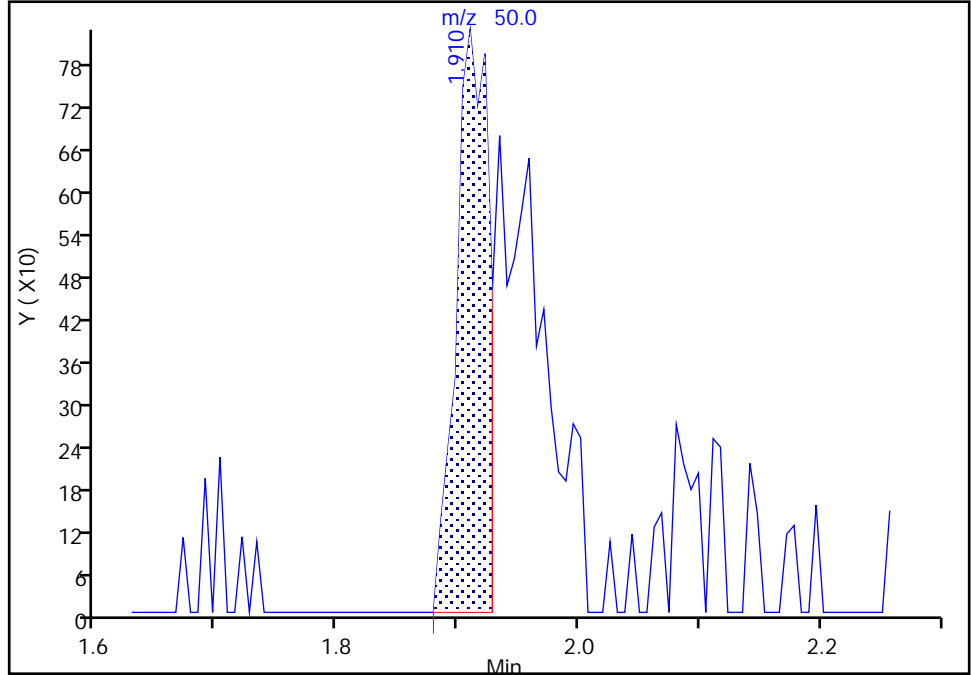
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Signal: 1

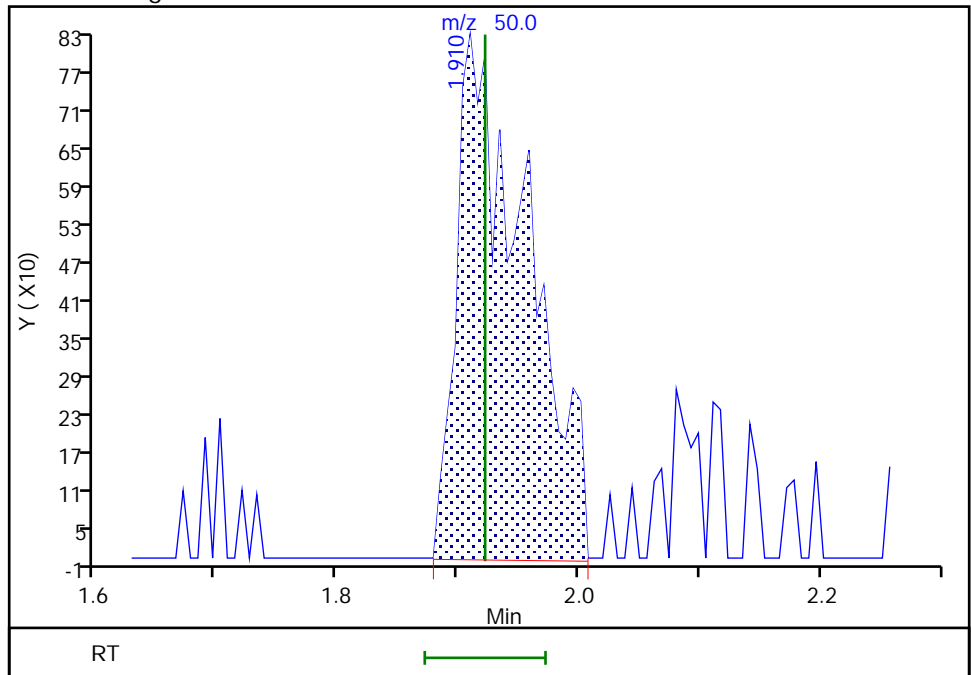
RT: 1.91  
Area: 1543  
Amount: 0.519456  
Amount Units: ug/L

Processing Integration Results



RT: 1.91  
Area: 3345  
Amount: 1.126105  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:19:01  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

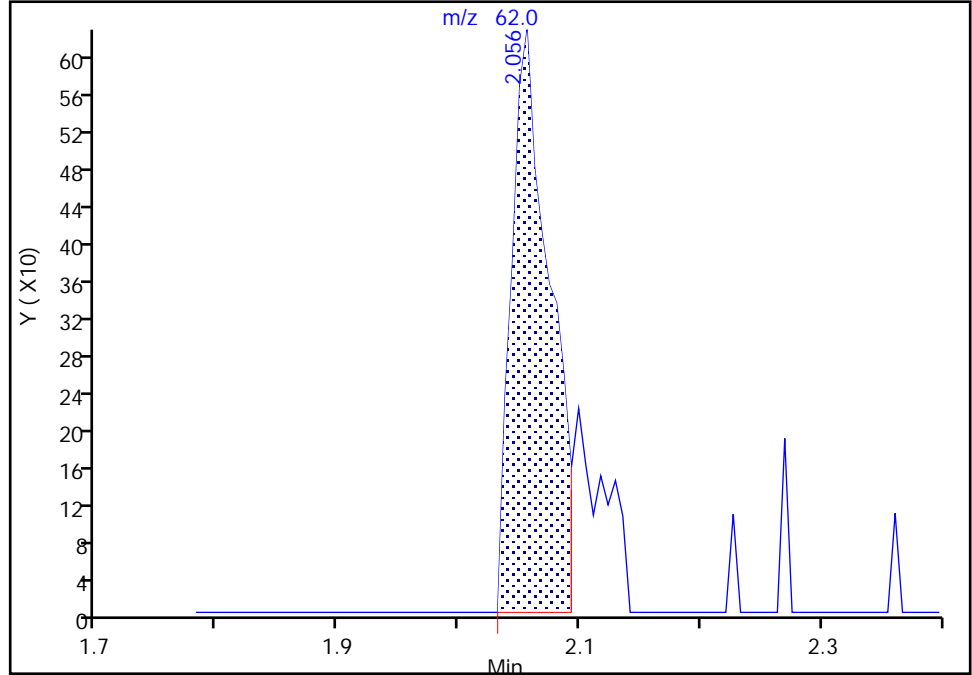
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

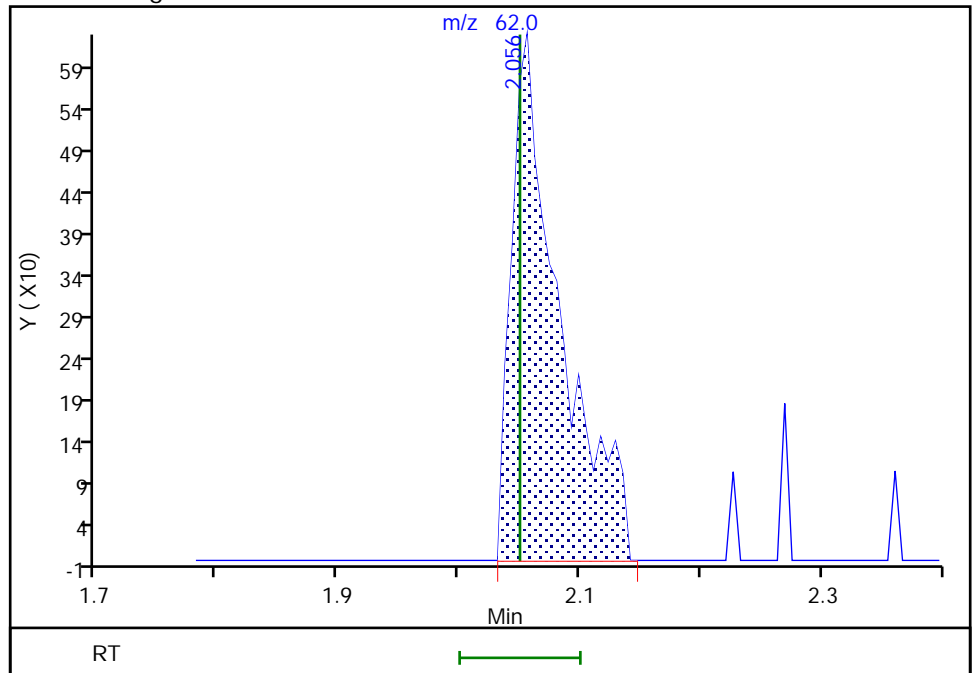
RT: 2.06  
Area: 1376  
Amount: 0.369926  
Amount Units: ug/L

Processing Integration Results



RT: 2.06  
Area: 1743  
Amount: 0.585012  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:19:05  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

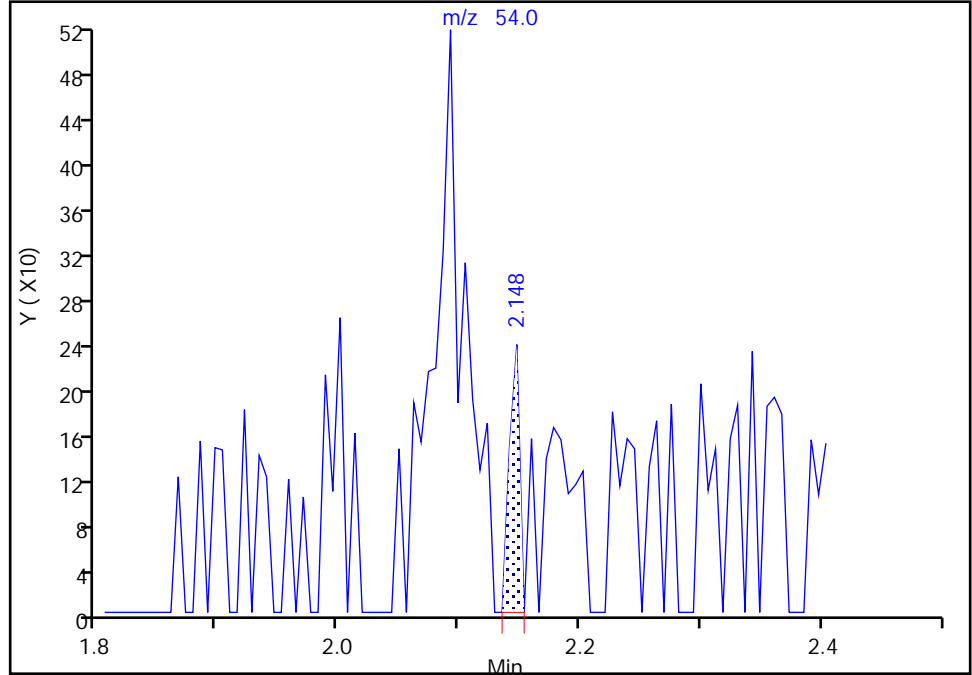
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

6 Butadiene, CAS: 106-99-0

Signal: 1

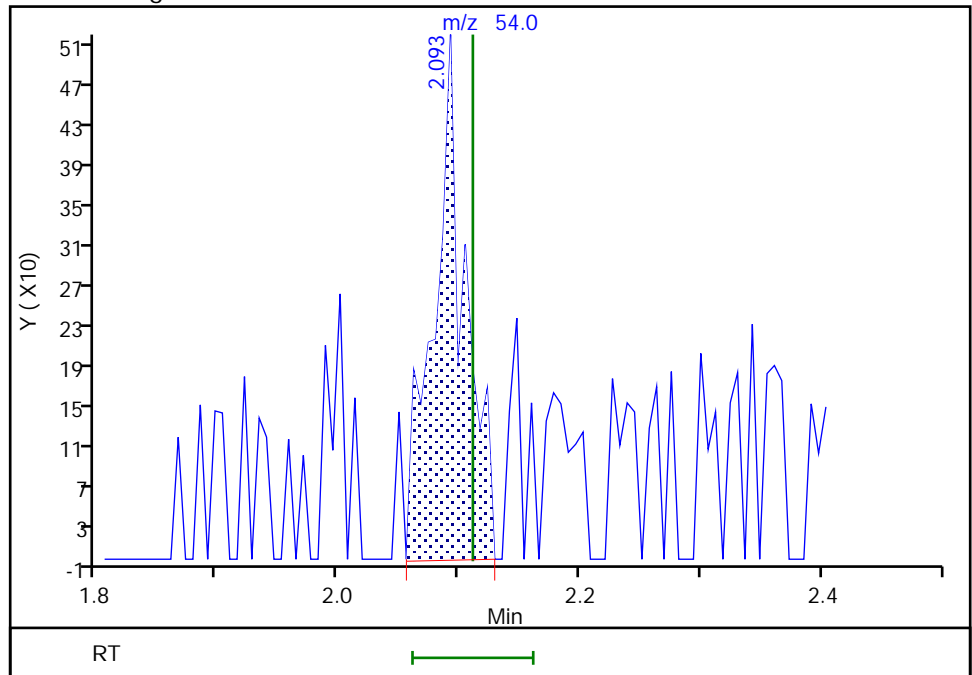
RT: 2.15  
Area: 141  
Amount: 0.076014  
Amount Units: ug/L

Processing Integration Results



RT: 2.09  
Area: 956  
Amount: 0.515383  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:19:10  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

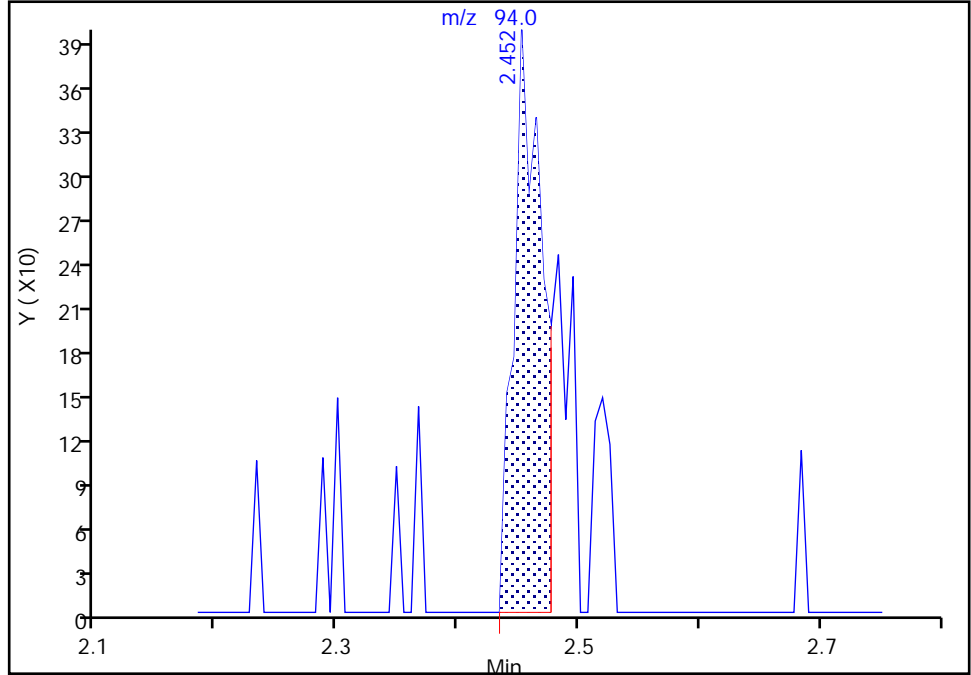
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

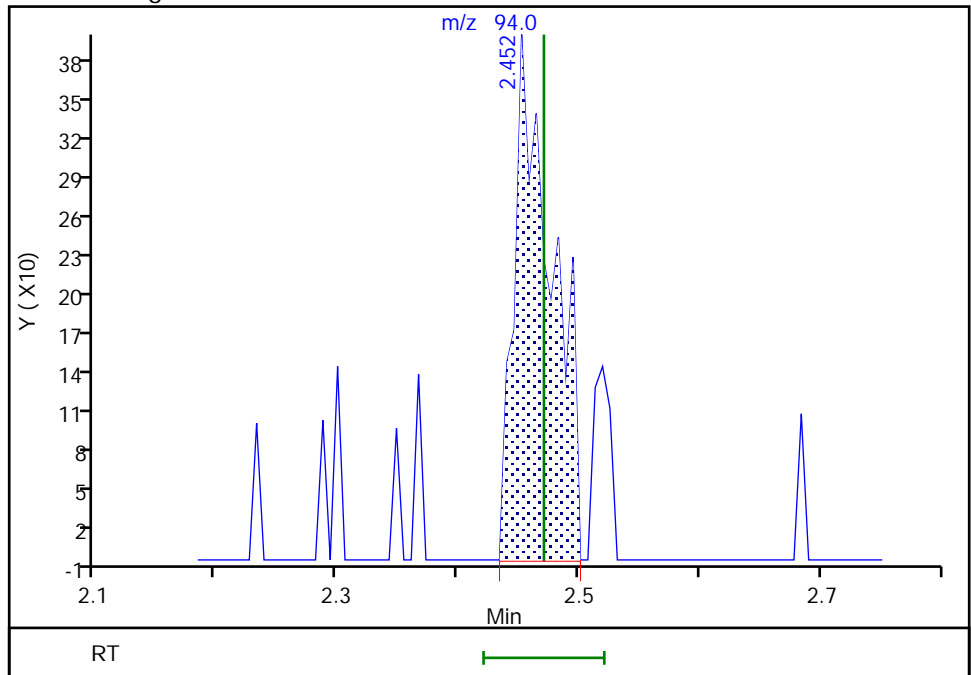
RT: 2.45  
Area: 648  
Amount: 1.191453  
Amount Units: ug/L

Processing Integration Results



RT: 2.45  
Area: 874  
Amount: 1.453009  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:19:15  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

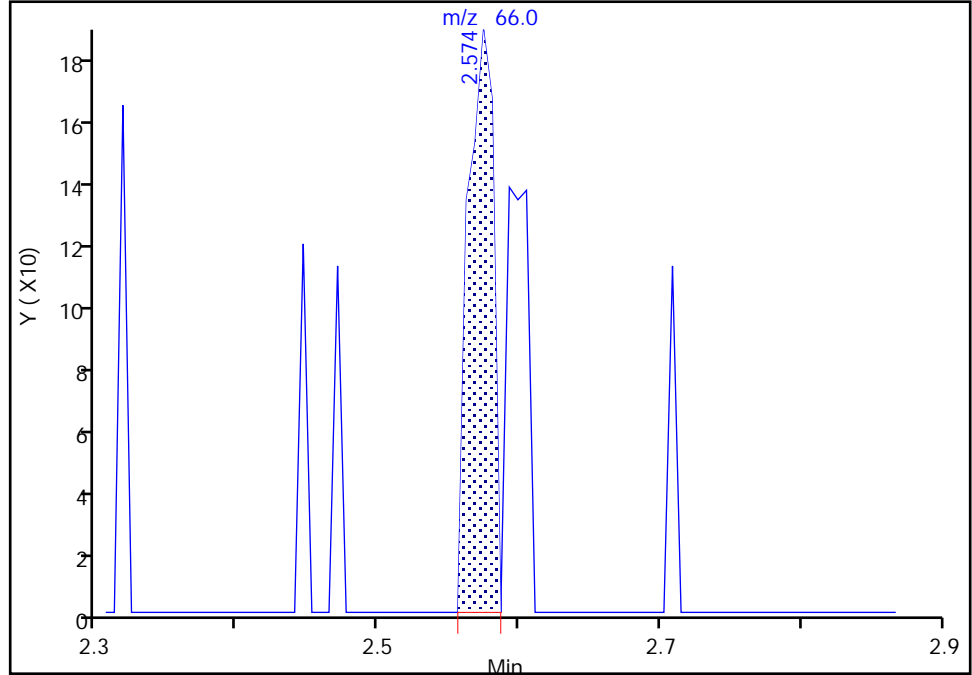
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Signal: 1

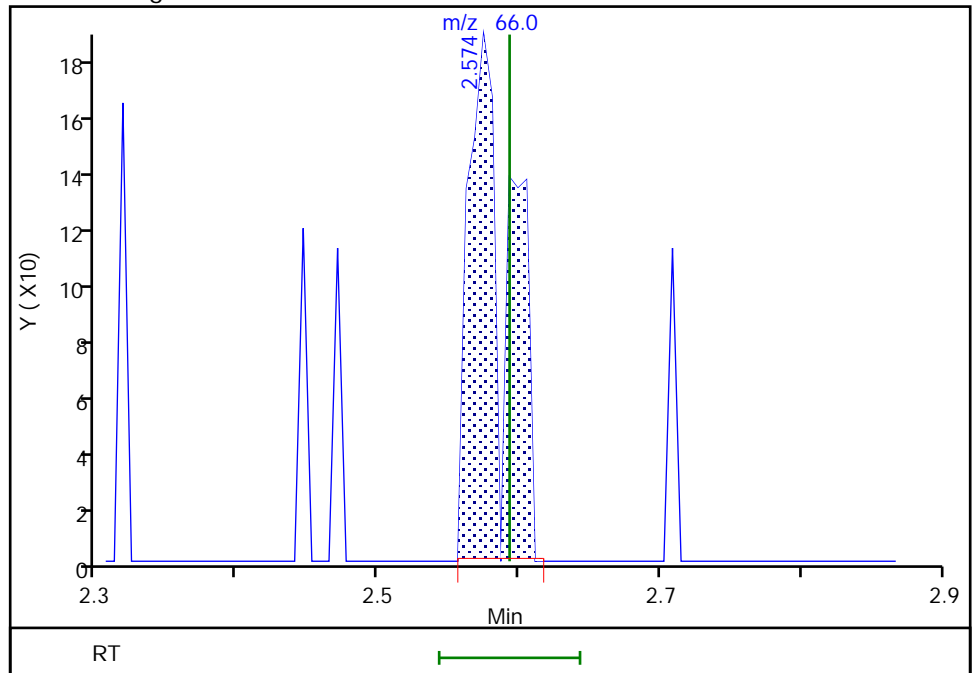
RT: 2.57  
Area: 230  
Amount: 1.551875  
Amount Units: ug/L

Processing Integration Results



RT: 2.57  
Area: 372  
Amount: 2.087244  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:19:20  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

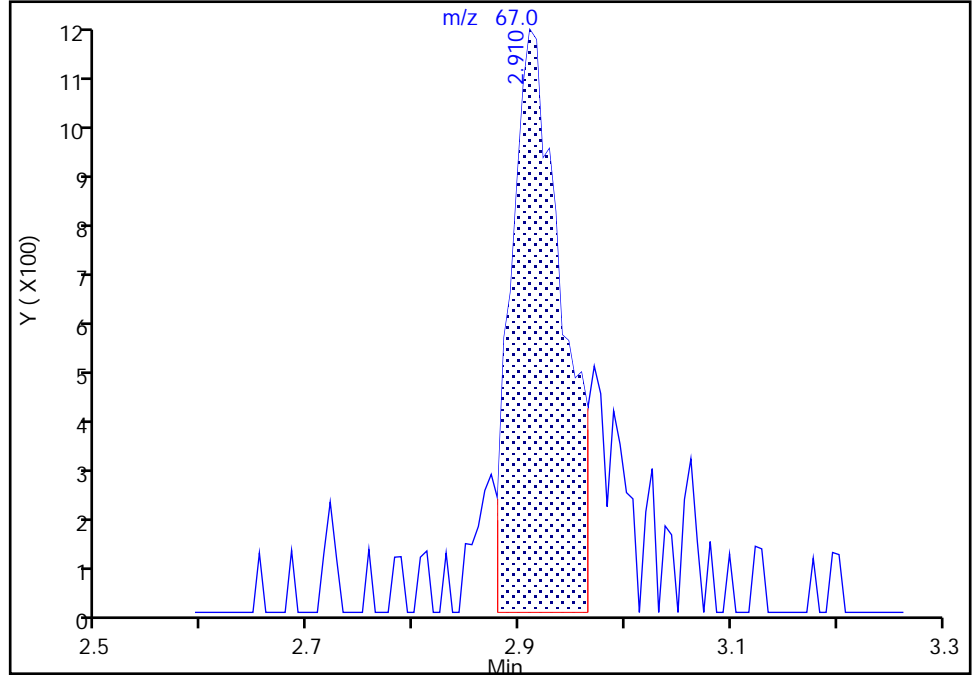
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

10 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

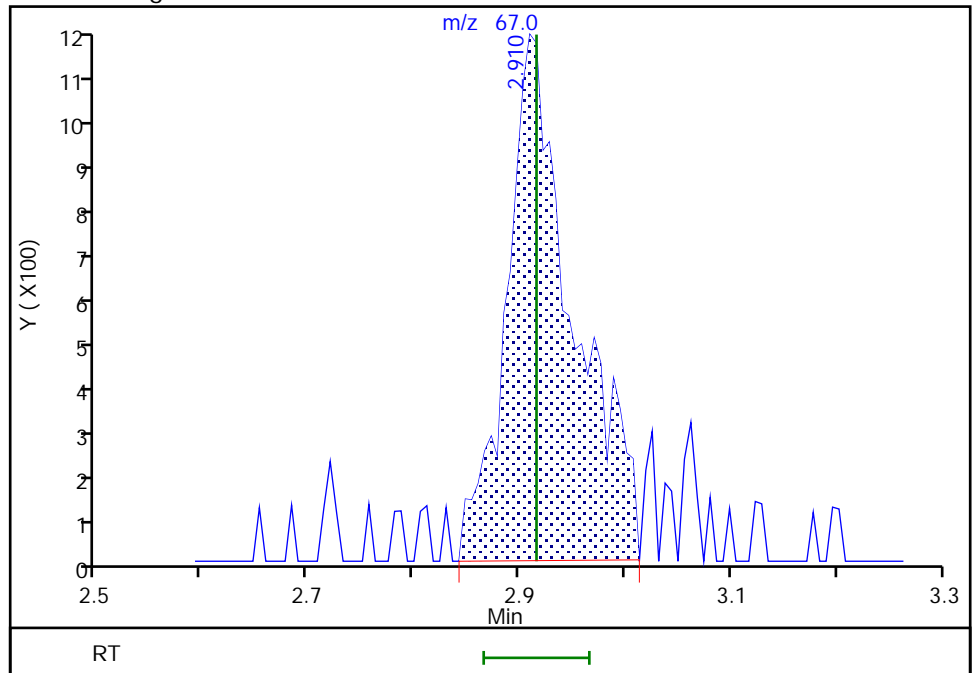
RT: 2.91  
Area: 3769  
Amount: 1.690951  
Amount Units: ug/L

Processing Integration Results



RT: 2.91  
Area: 4916  
Amount: 2.205549  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:19:25  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

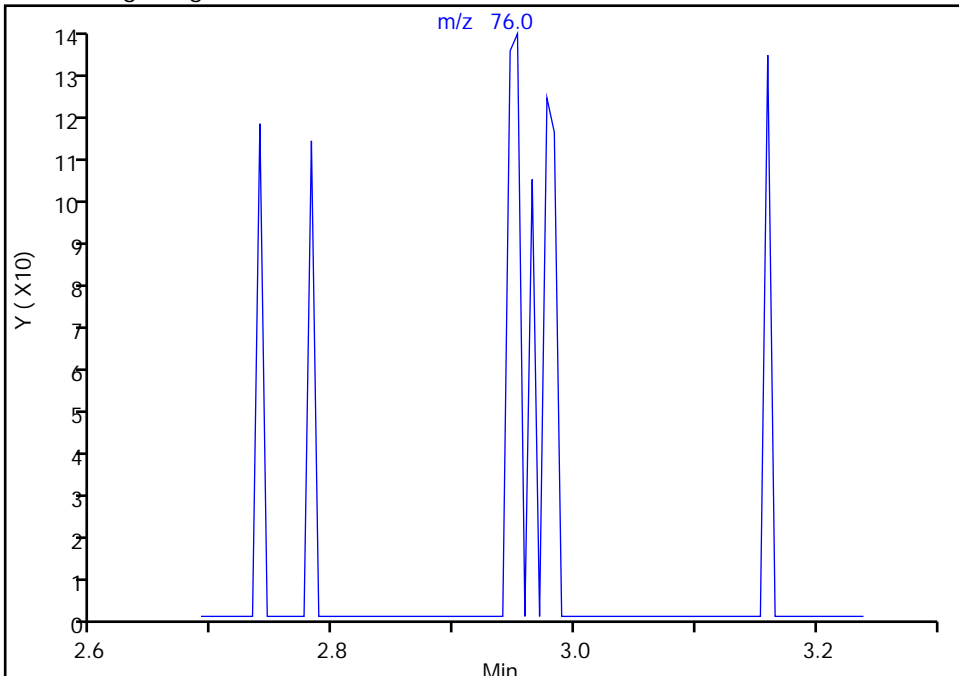
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

11 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

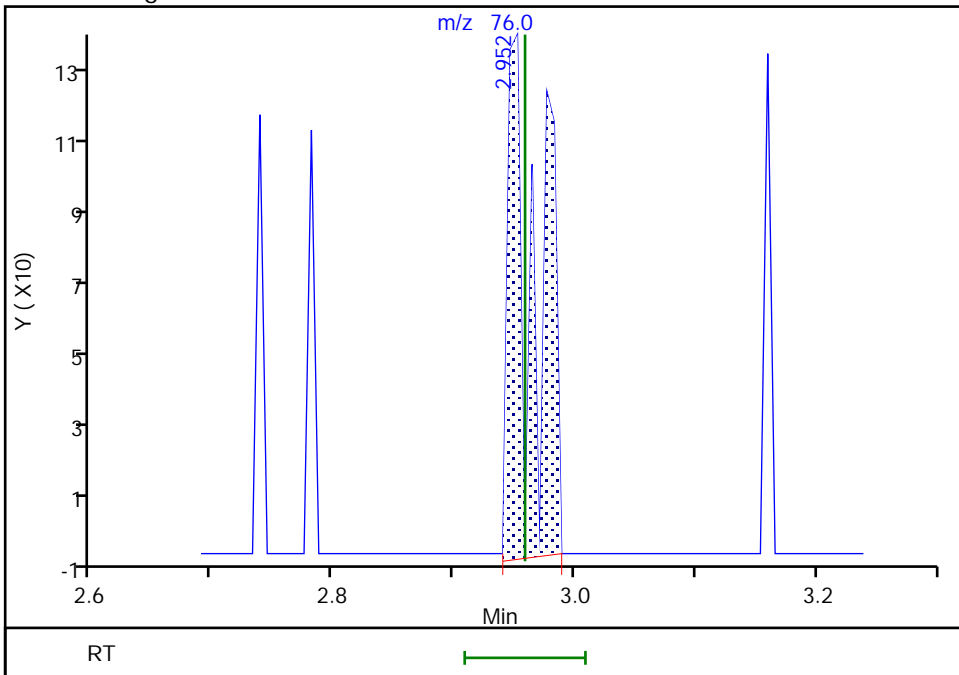
Not Detected  
Expected RT: 2.96

Processing Integration Results



Manual Integration Results

RT: 2.95  
Area: 224  
Amount: 3.539211  
Amount Units: ug/L



Reviewer: jantanuc, 09-Oct-2020 10:19:37  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

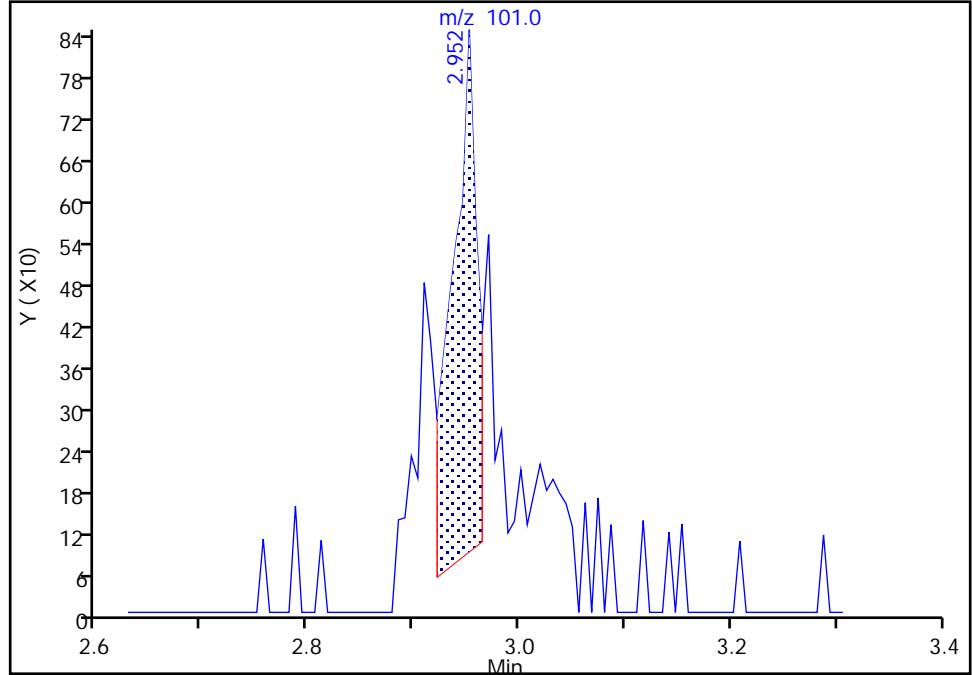
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

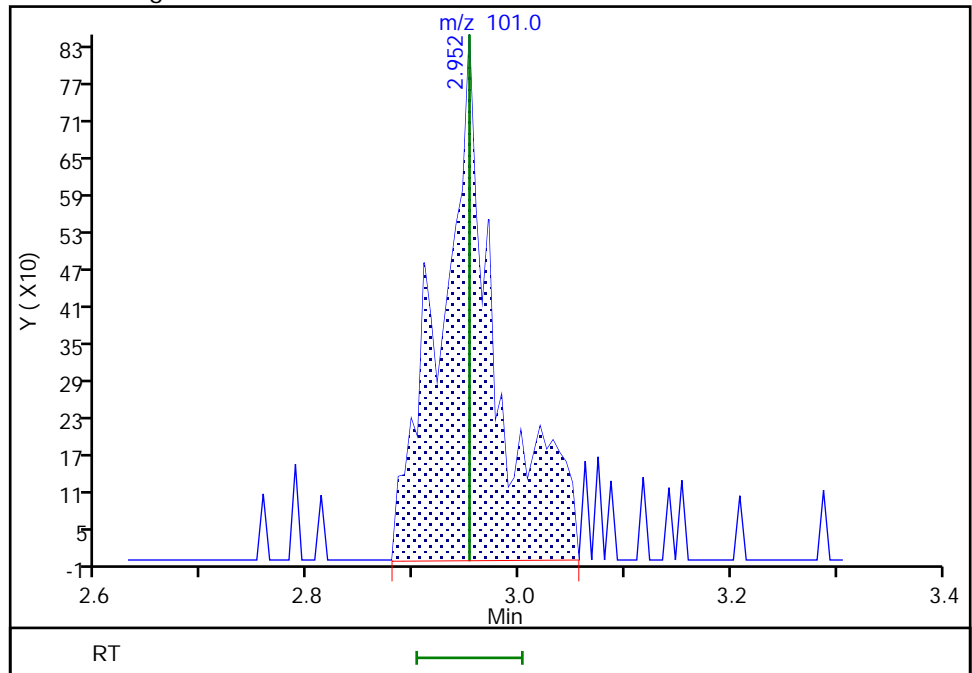
RT: 2.95  
Area: 1270  
Amount: 0.558653  
Amount Units: ug/L

Processing Integration Results



RT: 2.95  
Area: 3121  
Amount: 1.372879  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:19:31  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

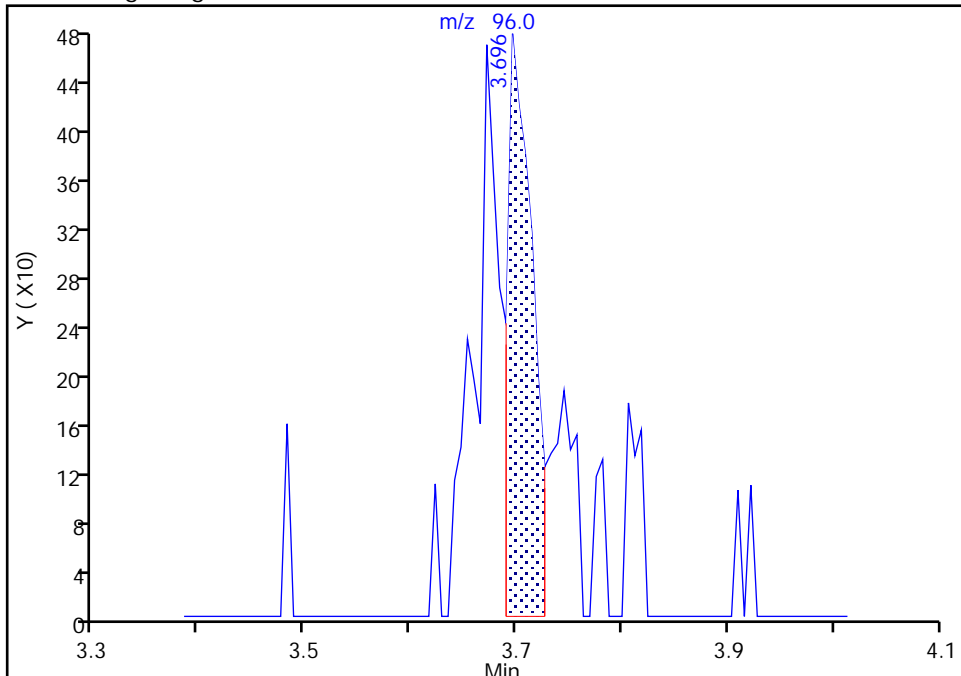
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

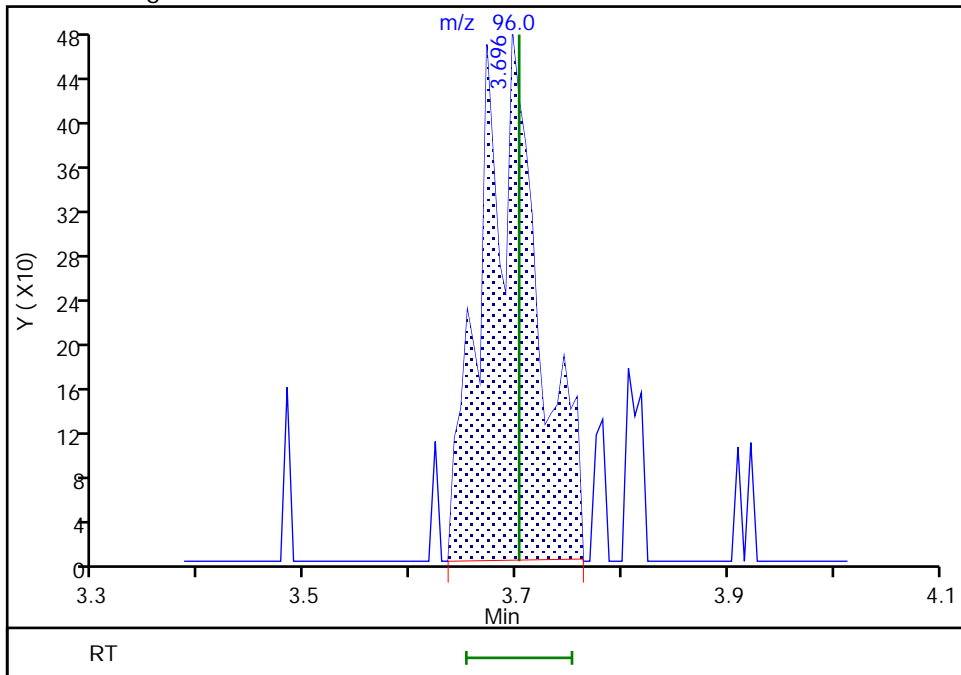
RT: 3.70  
Area: 782  
Amount: 0.706704  
Amount Units: ug/L

Processing Integration Results



RT: 3.70  
Area: 1749  
Amount: 1.580594  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:19:46  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

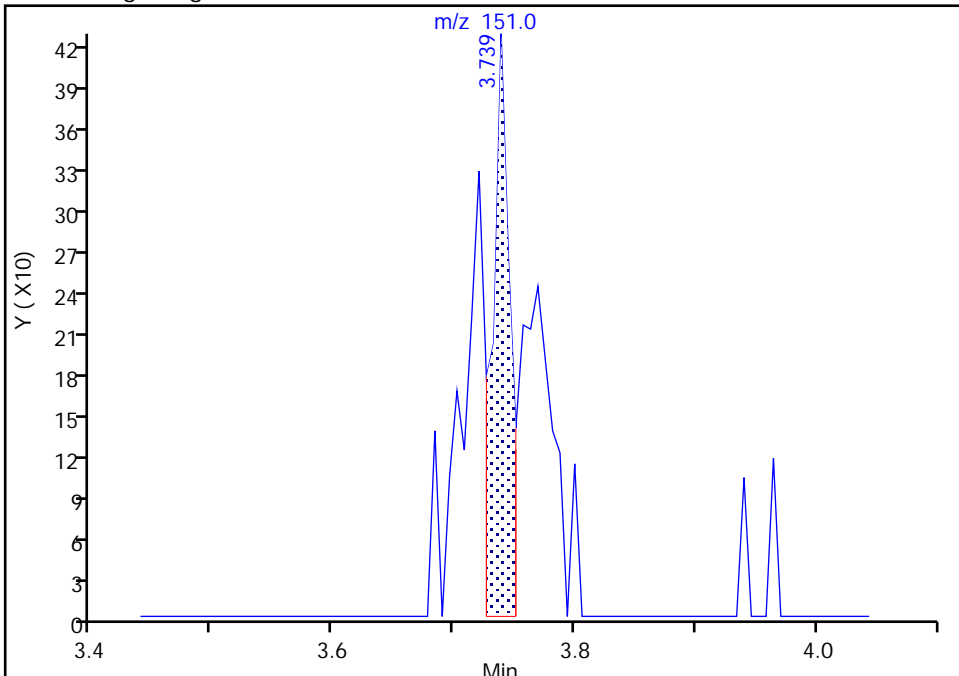
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

25 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

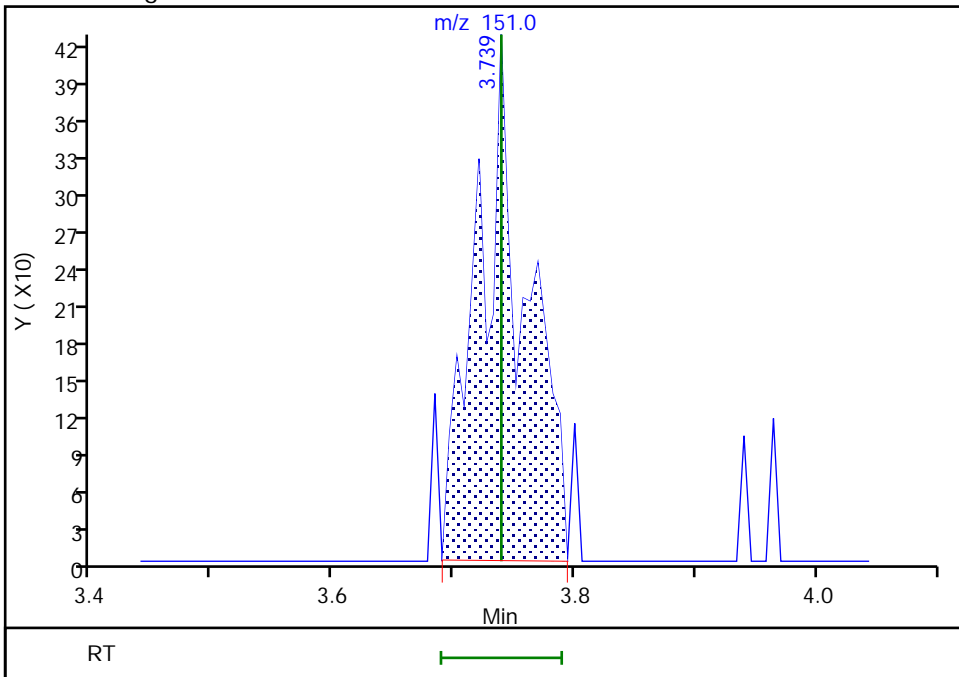
RT: 3.74  
Area: 437  
Amount: 0.410614  
Amount Units: ug/L

Processing Integration Results



RT: 3.74  
Area: 1176  
Amount: 1.104992  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:19:52  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

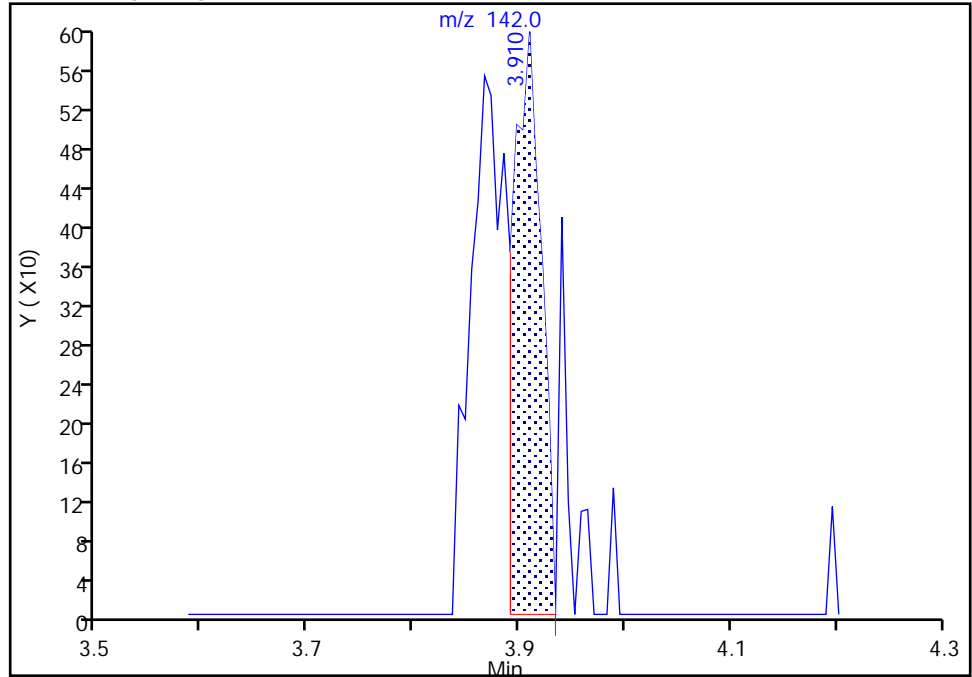
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

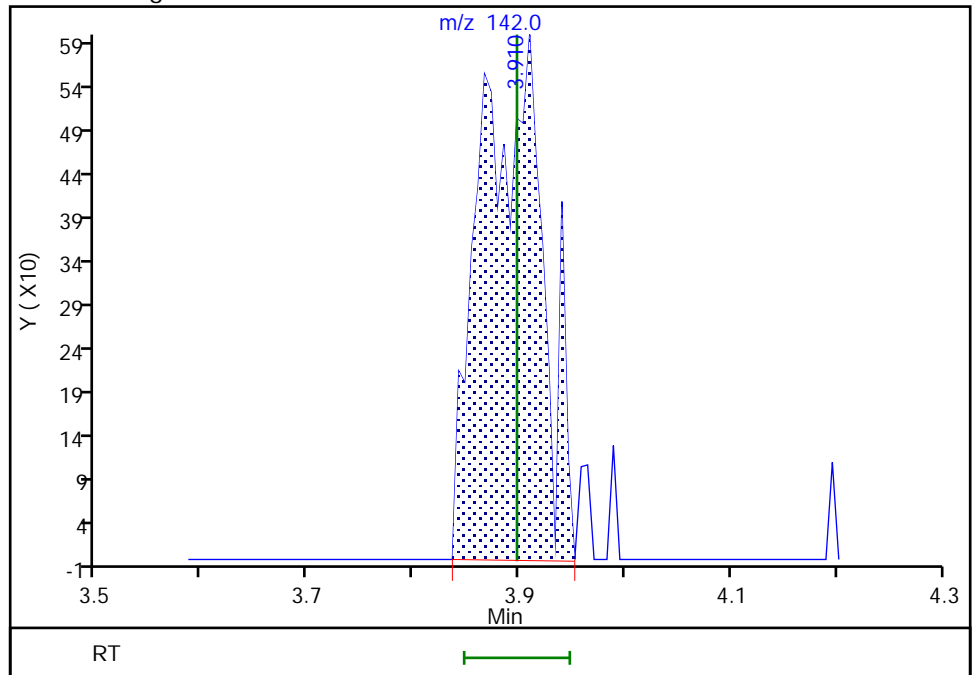
RT: 3.91  
Area: 1090  
Amount: 0.540973  
Amount Units: ug/L

Processing Integration Results



RT: 3.91  
Area: 2431  
Amount: 1.206518  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:19:57  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

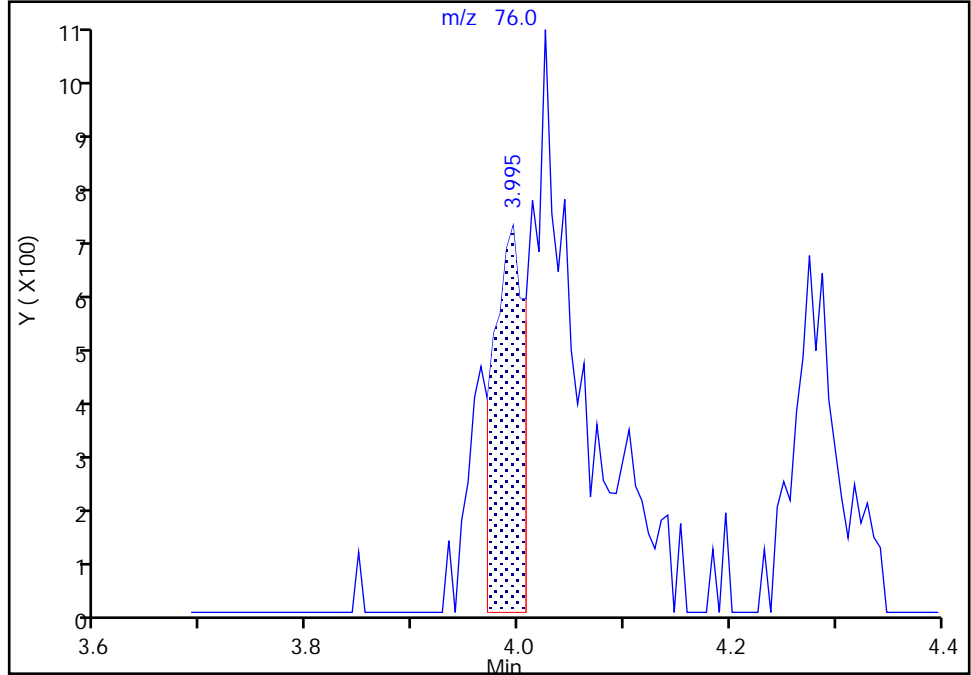
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

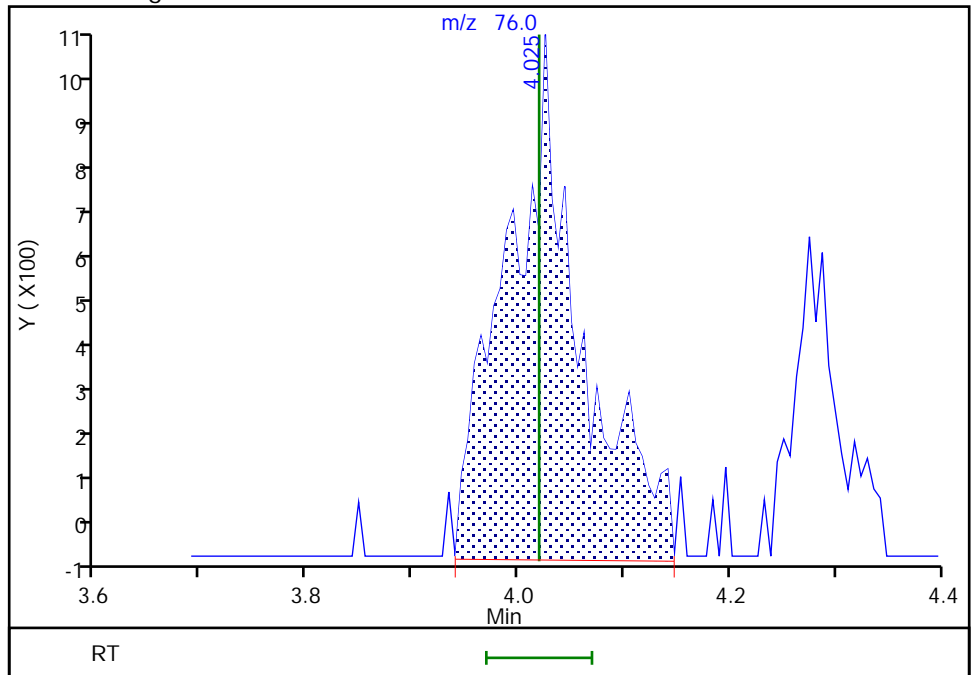
RT: 3.99  
Area: 1394  
Amount: 0.332854  
Amount Units: ug/L

Processing Integration Results



RT: 4.03  
Area: 5025  
Amount: 1.199851  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:20:02  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

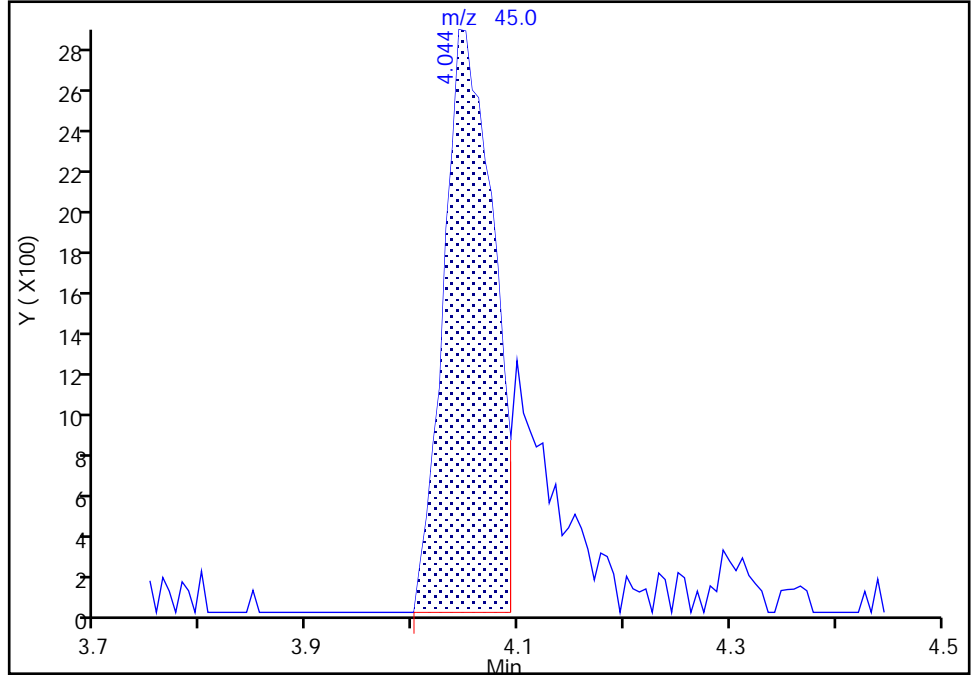
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

15 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

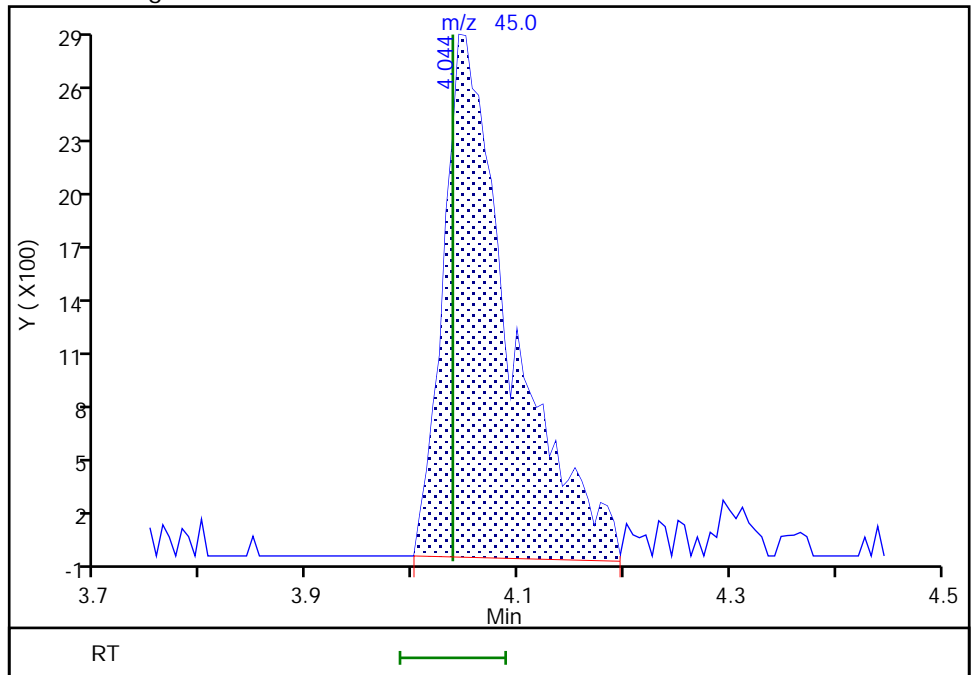
RT: 4.04  
Area: 9380  
Amount: 44.069010  
Amount Units: ug/L

Processing Integration Results



RT: 4.04  
Area: 12782  
Amount: 60.052248  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:20:09  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

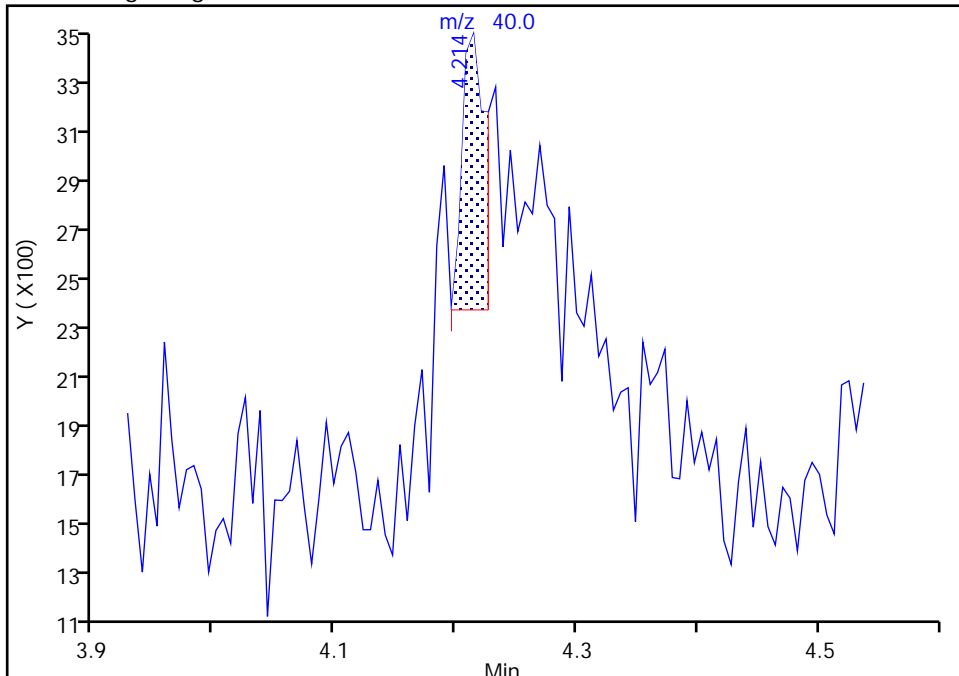
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

13 Acetonitrile, CAS: 75-05-8

Signal: 1

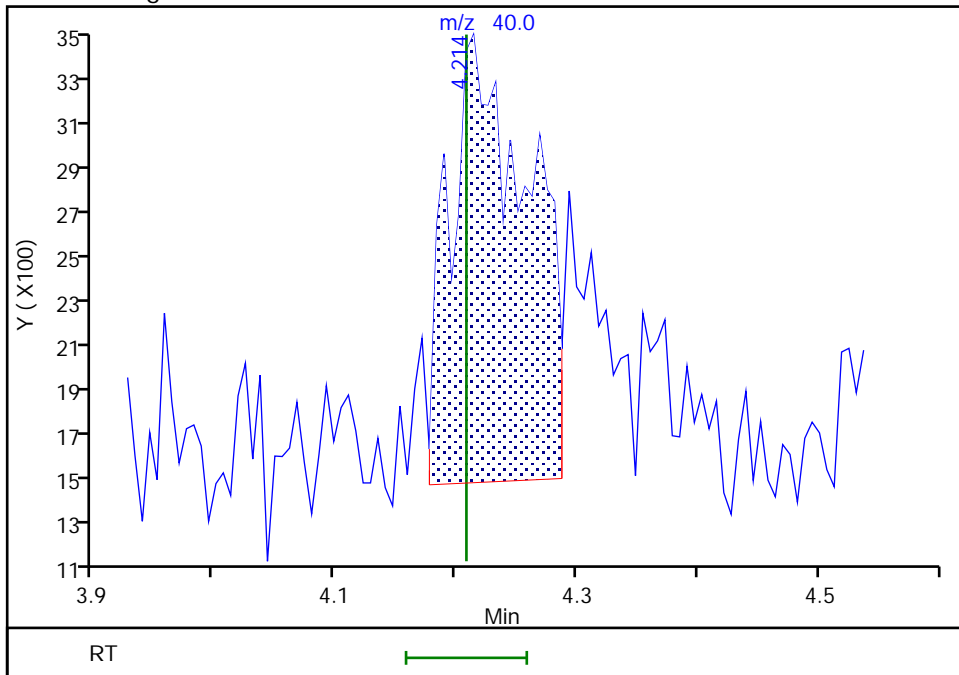
RT: 4.21  
Area: 1424  
Amount: 11.251469  
Amount Units: ug/L

Processing Integration Results



RT: 4.21  
Area: 8769  
Amount: 69.286611  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:20:17  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

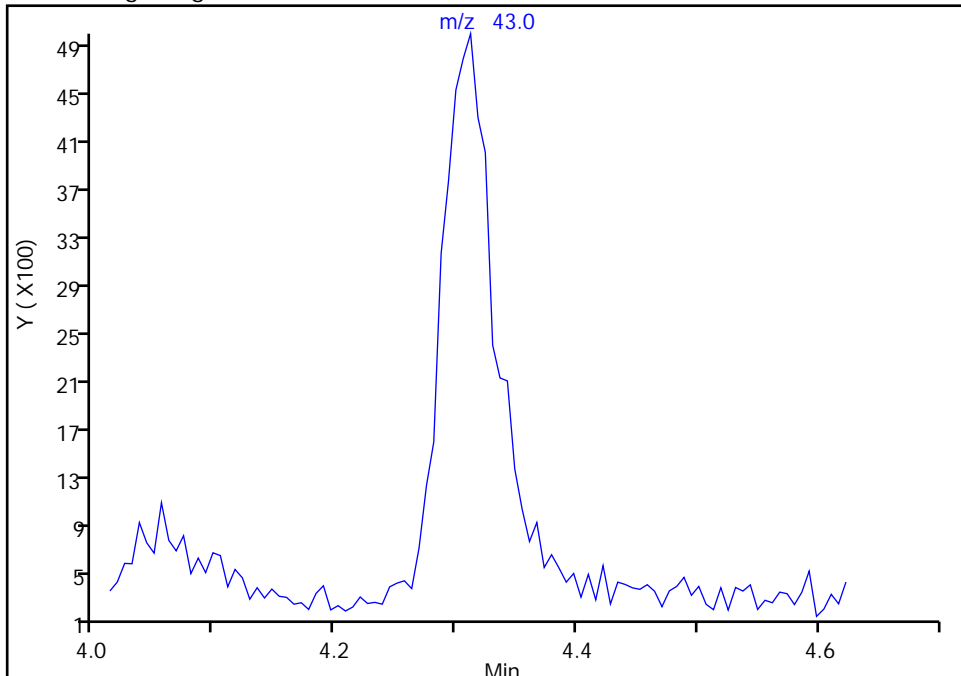
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Signal: 1

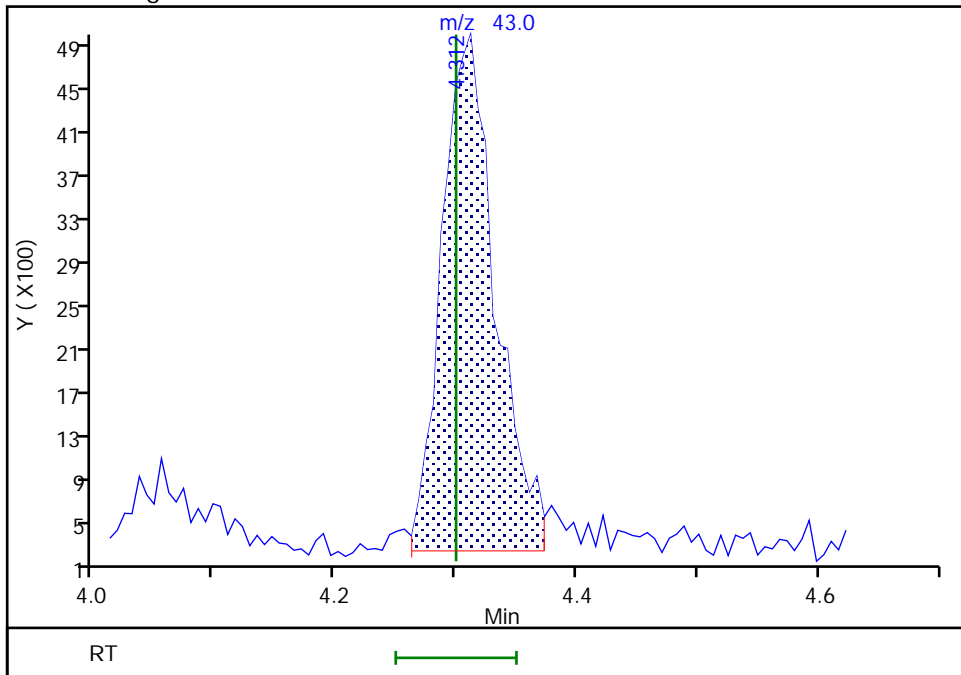
Not Detected  
Expected RT: 4.30

Processing Integration Results



RT: 4.31  
Area: 14502  
Amount: 6.252468  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:20:21  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

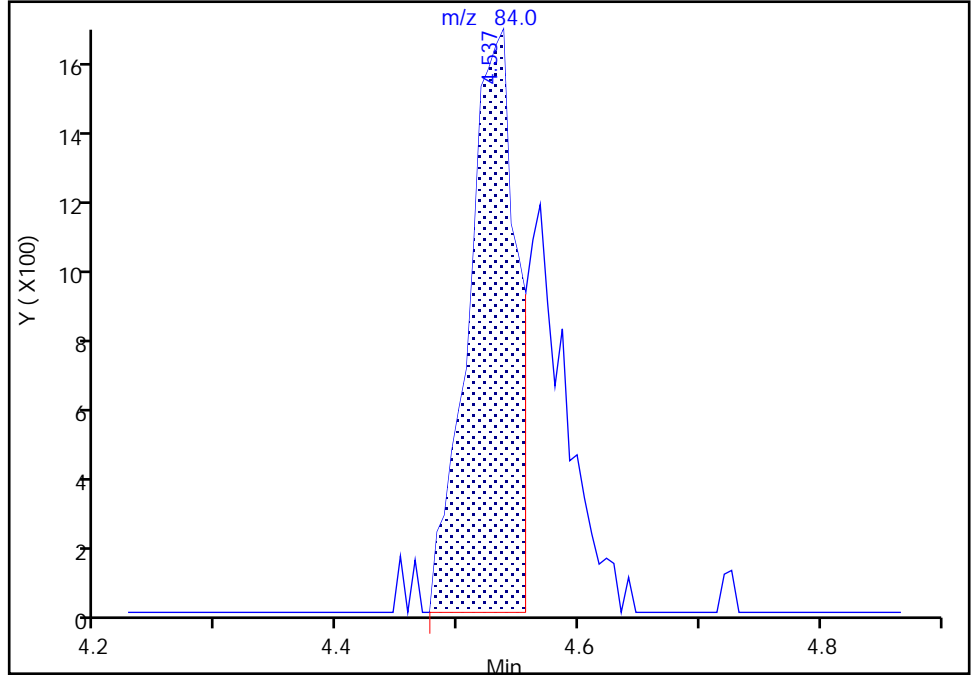
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_006.D  
Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

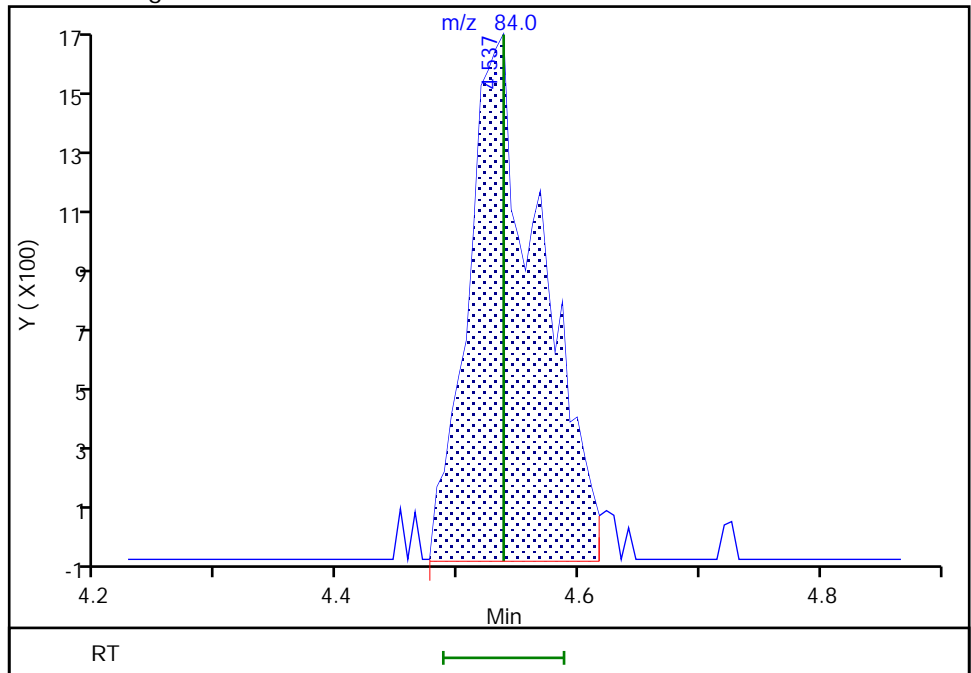
RT: 4.54  
Area: 4681  
Amount: 0.008796  
Amount Units: ug/L

Processing Integration Results



RT: 4.54  
Area: 6998  
Amount: 1.783430  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:20:24  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

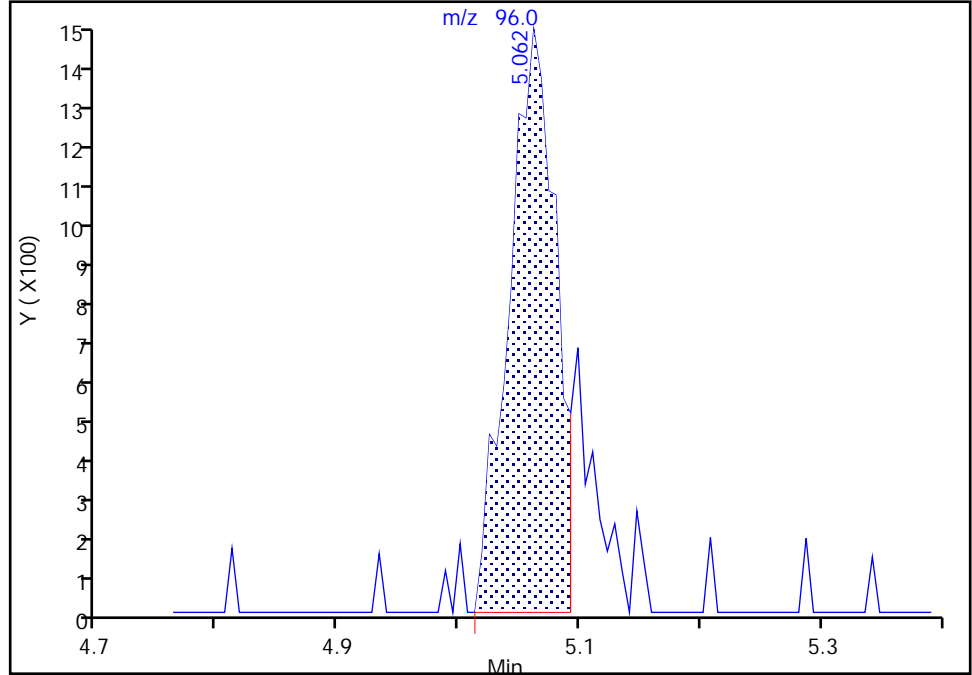
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Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

27 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

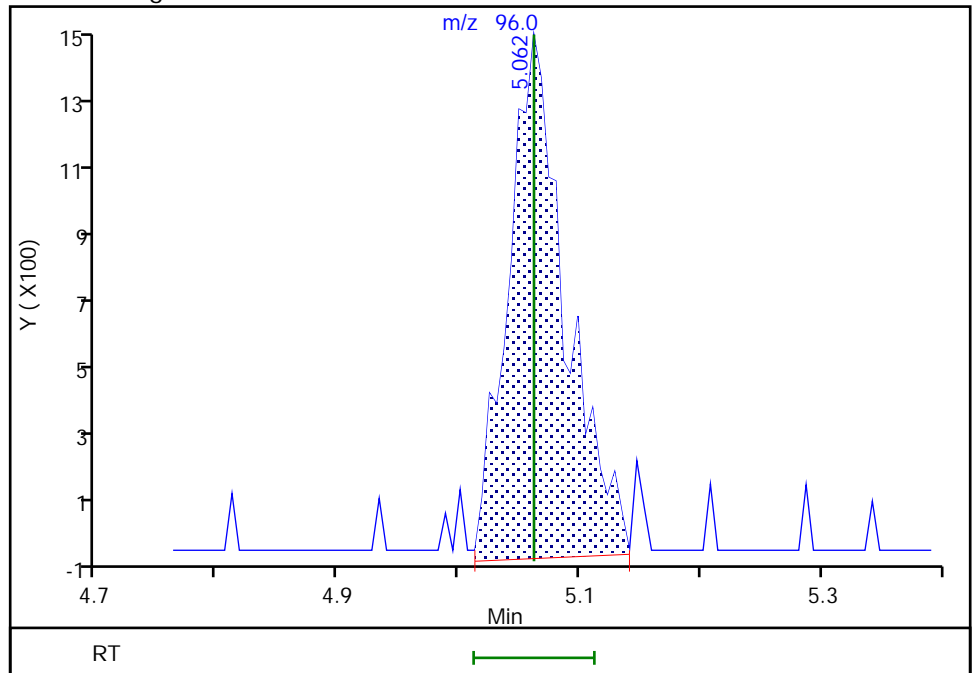
RT: 5.06  
Area: 3820  
Amount: 2.232743  
Amount Units: ug/L

Processing Integration Results



RT: 5.06  
Area: 4726  
Amount: 2.762288  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:20:34  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

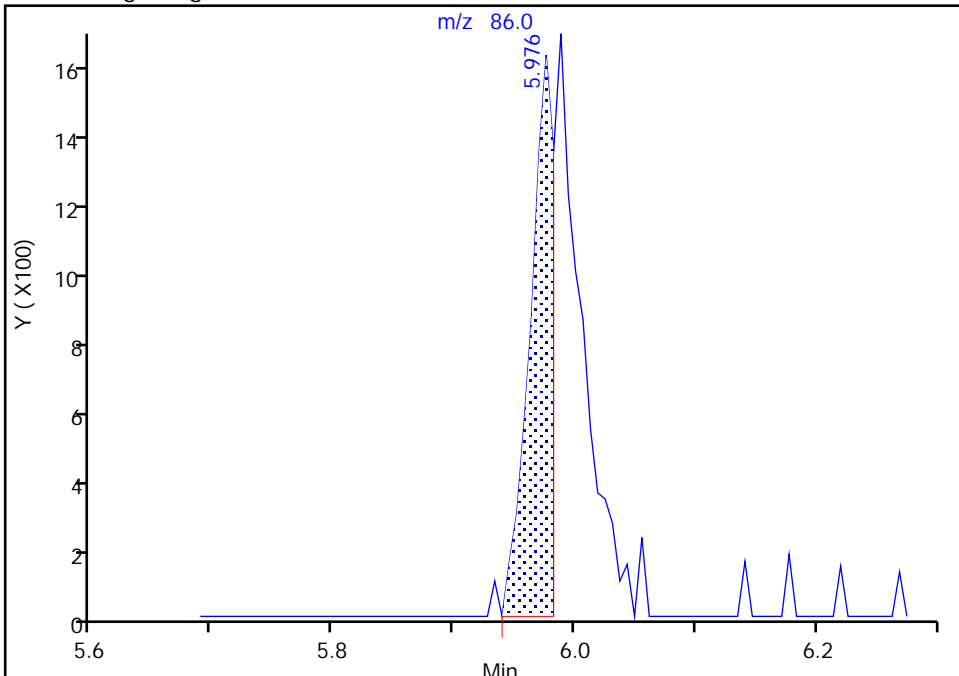
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Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

31 Vinyl acetate, CAS: 108-05-4

Signal: 1

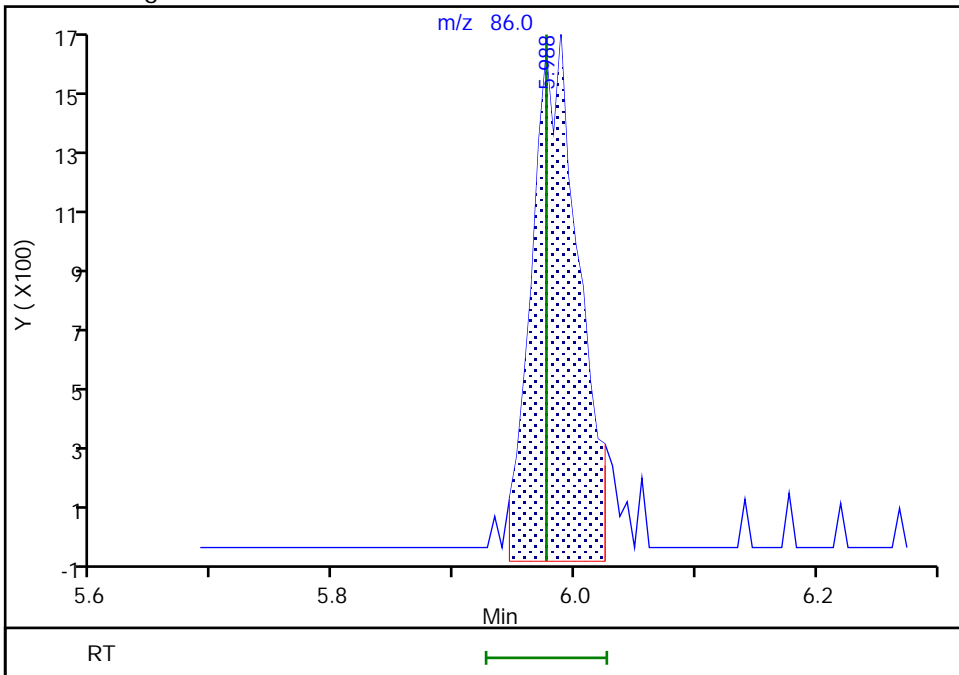
RT: 5.98  
Area: 2213  
Amount: 5.767681  
Amount Units: ug/L

Processing Integration Results



RT: 5.99  
Area: 4584  
Amount: 11.947152  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:20:43  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

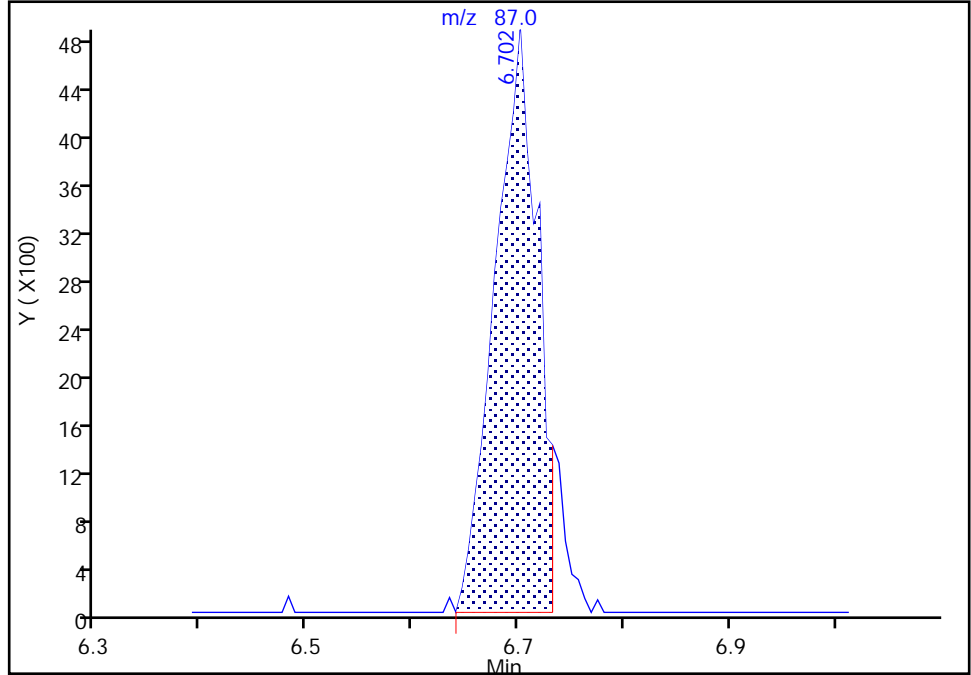
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Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

41 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

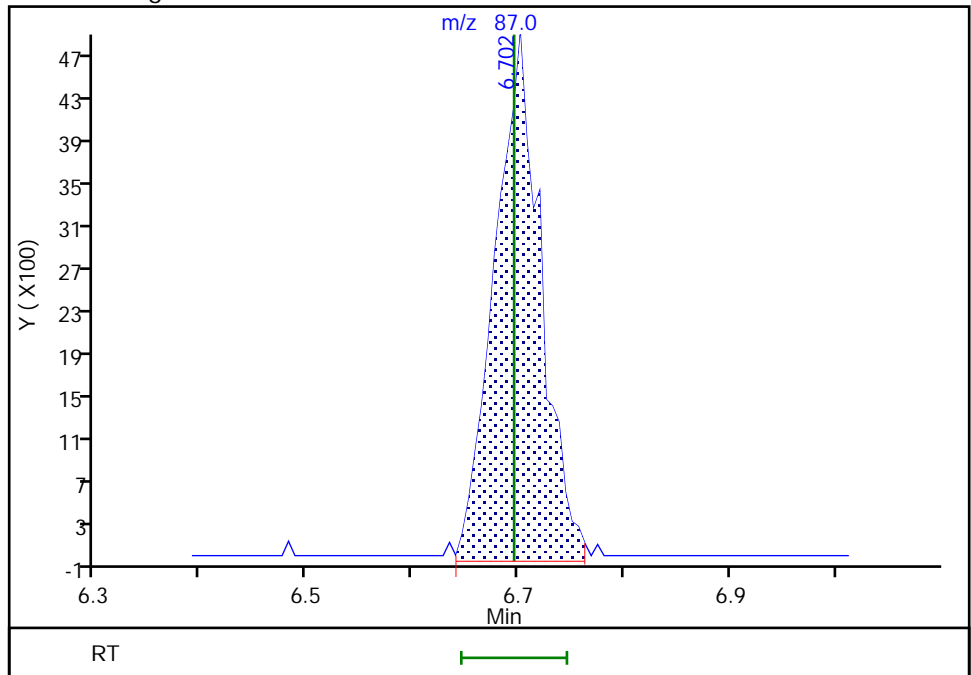
RT: 6.70  
Area: 13633  
Amount: 6.018630  
Amount Units: ug/L

Processing Integration Results



RT: 6.70  
Area: 14959  
Amount: 6.604026  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:20:49  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

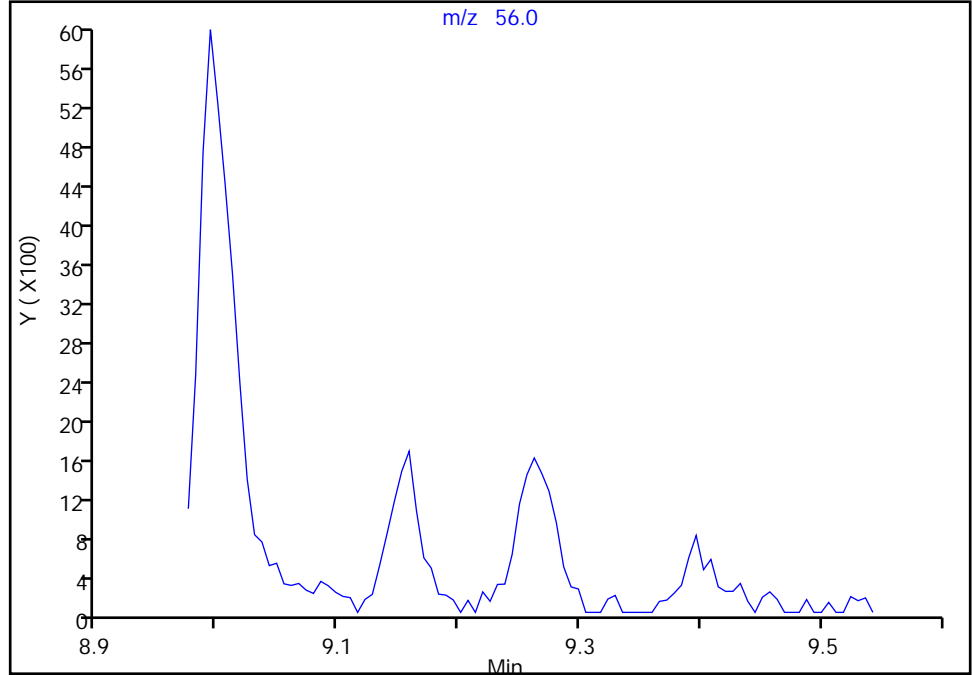
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Injection Date: 07-Oct-2020 15:37:30 Instrument ID: TAC119  
Lims ID: ccvl  
Client ID:  
Operator ID: jsm ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

49 n-Butanol, CAS: 71-36-3

Signal: 1

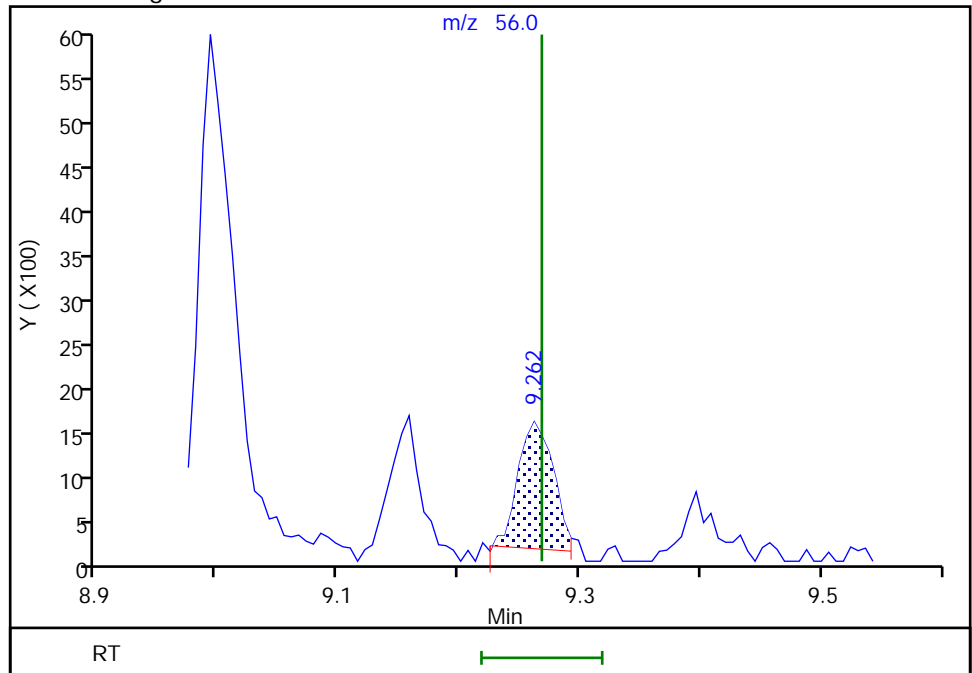
Not Detected  
Expected RT: 9.27

Processing Integration Results



Manual Integration Results

RT: 9.26  
Area: 2900  
Amount: 55.203227  
Amount Units: ug/L



Reviewer: jantanuc, 09-Oct-2020 10:21:17  
Audit Action: Manually Integrated

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 580-340807/3 Calibration Date: 10/14/2020 16:05

Instrument ID: TAC119 Calib Start Date: 10/01/2020 16:55

GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 10/01/2020 20:22

Lab File ID: 10142020\_003.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	Lin1		0.2086	0.1000	31.3	20.0	56.6*	20.0
Chloromethane	Ave	0.4358	0.4446	0.1000	20.4	20.0	2.0	20.0
Vinyl chloride	Lin1		0.2827	0.1000	22.1	20.0	10.7	20.0
Butadiene	Ave	0.2722	0.2426		17.8	20.0	-10.9	20.0
Bromomethane	Lin1		0.1273	0.1000	20.5	20.0	2.6	20.0
Chloroethane	Lin1		0.1482	0.0600	25.6	20.0	28.2*	20.0
Dichlorofluoromethane	Ave	0.3270	0.4333		26.5	20.0	32.5*	20.0
Trichlorofluoromethane	Ave	0.3336	0.3444	0.1000	20.6	20.0	3.2	20.0
3-Chloro-1-propene	Lin1		0.0076			20.0	-20.8*	20.0
Ethyl ether	Ave	0.2914	0.2579		17.7	20.0	-11.5	20.0
Acrolein	Ave	0.0667	0.0615		111	120	-7.7	20.0
1,1-Dichloroethene	Ave	0.1624	0.1691	0.1000	20.8	20.0	4.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1562	0.1481	0.1000	19.0	20.0	-5.2	20.0
Acetone	Ave	0.1472	0.1223	0.0200		100	-16.9	20.0
Iodomethane	Ave	0.2956	0.2898		19.6	20.0	-2.0	20.0
Carbon disulfide	Ave	0.6145	0.6384	0.1000	20.8	20.0	3.9	20.0
Isopropyl alcohol	Ave	1.024	0.8227			200	-19.6	20.0
Acetonitrile	Ave	0.0186	0.0156		210	250	-16.1	20.0
Methyl acetate	Lin1		0.2439	0.1000	33.3	40.0	-16.6	20.0
Methylene Chloride	Lin2		0.3155	0.1000		20.0	46.8*	20.0
2-Methyl-2-propanol	Ave	0.0431	0.0394			200	-8.6	20.0
Acrylonitrile	Lin2		0.1099		172	200	-14.0	20.0
trans-1,2-Dichloroethene	Ave	0.2510	0.2305	0.1000	18.4	20.0	-8.2	20.0
Methyl tert-butyl ether	Lin1		0.6760	0.1000	18.6	20.0	-7.2	20.0
Hexane	Lin2		0.5889			20.0	-7.9	20.0
1,1-Dichloroethane	Ave	0.5880	0.5200	0.2000	17.7	20.0	-11.6	20.0
Vinyl acetate	Ave	0.0563	0.0506		44.9	50.0	-10.2	20.0
2-Chloro-1,3-butadiene	Ave	0.7324	0.6448		17.6	20.0	-12.0	20.0
Isopropyl ether	Ave	1.444	1.169		20.2	25.0	-19.0	20.0
Tert-butyl ethyl ether	Ave	0.3324	0.2902		21.8	25.0	-12.7	20.0
2,2-Dichloropropane	Ave	0.3929	0.3842		19.6	20.0	-2.2	20.0
2-Butanone (MEK)	Ave	0.0305	0.0295	0.0200	96.7	100	-3.3	20.0
cis-1,2-Dichloroethene	Ave	0.2818	0.2635	0.1000	18.7	20.0	-6.5	20.0
Propionitrile	Ave	0.0490	0.0460		235	250	-6.1	20.0
Ethyl acetate	Ave	0.4105	0.3346		32.6	40.0	-18.5	20.0
Methacrylonitrile	Ave	0.1061	0.0991		187	200	-6.6	20.0
Chlorobromomethane	Ave	0.1672	0.1538		18.4	20.0	-8.0	20.0
Chloroform	Ave	0.5029	0.4273	0.2000	17.0	20.0	-15.0	20.0
1,1,1-Trichloroethane	Ave	0.4229	0.3893	0.1000	18.4	20.0	-7.9	20.0
Cyclohexane	Ave	0.3611	0.3591	0.1000	19.9	20.0	-0.6	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 580-340807/3 Calibration Date: 10/14/2020 16:05

Instrument ID: TAC119 Calib Start Date: 10/01/2020 16:55

GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 10/01/2020 20:22

Lab File ID: 10142020\_003.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
Carbon tetrachloride	Lin1		0.3558	0.1000	18.7	20.0	-6.3	20.0
1,1-Dichloropropene	Ave	0.3858	0.3474		18.0	20.0	-10.0	20.0
Benzene	Ave	1.056	1.018	0.5000	19.3	20.0	-3.7	20.0
Isobutyl alcohol	Ave	0.7601	0.5672		373	500	-25.4*	20.0
1,2-Dichloroethane	Ave	0.4957	0.4177	0.1000	16.9	20.0	-15.7	20.0
Tert-amyl methyl ether	Ave	0.7744	0.6600		21.3	25.0	-14.8	20.0
n-Heptane	Ave	0.7626	0.6396		16.8	20.0	-16.1	20.0
Tetrahydrofuran	Lin1		0.0884			40.0	-9.6	20.0
Trichloroethene	Ave	0.2890	0.2603	0.2000	18.0	20.0	-9.9	20.0
Ethyl acrylate	Ave	0.5523	0.4200		15.2	20.0	-23.9*	20.0
Methylcyclohexane	Ave	0.4719	0.4565	0.1000	19.3	20.0	-3.3	20.0
n-Butanol	Ave	0.0077	0.0062			500	-19.2	20.0
1,2-Dichloropropane	Ave	0.3392	0.2988	0.1000	17.6	20.0	-11.9	20.0
Dibromomethane	Ave	0.1493	0.1396		18.7	20.0	-6.5	20.0
Methyl methacrylate	Ave	0.1773	0.1636			40.0	-7.8	20.0
Dichlorobromomethane	Ave	0.3941	0.3337	0.2000	16.9	20.0	-15.3	20.0
2-Nitropropane	Ave	0.1851	0.1285		27.8	40.0	-30.6*	20.0
2-Chloroethyl vinyl ether	Lin2		0.0720			20.0	-62.6*	20.0
cis-1,3-Dichloropropene	Ave	0.5881	0.5098	0.2000	17.3	20.0	-13.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1673	0.1514	0.0600	90.5	100	-9.5	20.0
Toluene	Ave	1.550	1.443	0.4000	18.6	20.0	-7.0	20.0
n-Butyl acetate	Lin1		0.0775			20.0	-24.7*	20.0
trans-1,3-Dichloropropene	Ave	0.5369	0.4677	0.1000	17.4	20.0	-12.9	20.0
Ethyl methacrylate	Ave	0.4045	0.3533		17.5	20.0	-12.6	20.0
1,1,2-Trichloroethane	Lin2		0.2529	0.1000	18.2	20.0	-8.8	20.0
Tetrachloroethene	Ave	0.6896	0.6786	0.2000	19.7	20.0	-1.6	20.0
1,3-Dichloropropane	Ave	0.4971	0.4586		18.4	20.0	-7.8	20.0
2-Hexanone	Ave	0.1640	0.1487	0.0600	90.7	100	-9.3	20.0
Chlorodibromomethane	Ave	0.3619	0.3120	0.1000	17.2	20.0	-13.8	20.0
Ethylene Dibromide	Lin1		0.2547	0.1000	18.6	20.0	-7.0	20.0
Chlorobenzene	Ave	0.9682	0.9277	0.5000	19.2	20.0	-4.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3708	0.3143		17.0	20.0	-15.2	20.0
Ethylbenzene	Lin2		1.533	0.1000	19.5	20.0	-2.6	20.0
m-Xylene & p-Xylene	Ave	1.408	1.178	0.1000	16.7	20.0	-16.3	20.0
o-Xylene	Lin2		1.194	0.3000	18.6	20.0	-7.2	20.0
Styrene	Ave	0.9382	0.8309	0.3000	17.7	20.0	-11.4	20.0
Bromoform	Ave	0.2162	0.1818	0.1000	16.8	20.0	-15.9	20.0
Isopropylbenzene	Ave	1.592	1.472	0.1000	18.5	20.0	-7.5	20.0
1,1,2,2-Tetrachloroethane	Lin1		0.7641	0.3000	20.5	20.0	2.6	20.0
Bromobenzene	Ave	0.8548	0.7831		18.3	20.0	-8.4	20.0
trans-1,4-Dichloro-2-butene	Lin2		0.3437			20.0	-12.5	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 580-340807/3 Calibration Date: 10/14/2020 16:05  
 Instrument ID: TAC119 Calib Start Date: 10/01/2020 16:55  
 GC Column: 624SIL-MS ID: 0.25 (mm) Calib End Date: 10/01/2020 20:22  
 Lab File ID: 10142020\_003.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
1,2,3-Trichloropropane	Ave	0.2424	0.2304		19.0	20.0	-5.0	20.0
N-Propylbenzene	Ave	4.225	4.275		20.2	20.0	1.2	20.0
2-Chlorotoluene	Ave	0.8512	0.8278		19.4	20.0	-2.8	20.0
1,3,5-Trimethylbenzene	Ave	3.054	3.029		19.8	20.0	-0.8	20.0
4-Chlorotoluene	Ave	0.8857	0.8242		18.6	20.0	-7.0	20.0
tert-Butylbenzene	Ave	2.806	2.799		19.9	20.0	-0.3	20.0
1,2,4-Trimethylbenzene	Ave	3.050	2.927		19.2	20.0	-4.0	20.0
sec-Butylbenzene	Ave	3.948	3.997		20.2	20.0	1.2	20.0
1,3-Dichlorobenzene	Ave	1.548	1.542	0.6000	19.9	20.0	-0.4	20.0
4-Isopropyltoluene	Ave	3.275	3.272		20.0	20.0	-0.0	20.0
1,4-Dichlorobenzene	Ave	1.551	1.483	0.5000	19.1	20.0	-4.4	20.0
1,2,3-Trimethylbenzene	Ave	3.237	2.995		18.5	20.0	-7.5	20.0
Benzyl chloride	Ave	0.3320	0.3251		19.6	20.0	-2.1	20.0
n-Butylbenzene	Ave	0.8108	0.8013		19.8	20.0	-1.2	20.0
1,2-Dichlorobenzene	Ave	1.481	1.454	0.4000	19.6	20.0	-1.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1595	0.1643	0.0500	20.6	20.0	3.0	20.0
1,3,5-Trichlorobenzene	Ave	1.140	1.054		18.5	20.0	-7.5	20.0
1,2,4-Trichlorobenzene	Ave	0.9648	0.9591	0.2000	19.9	20.0	-0.6	20.0
Hexachlorobutadiene	Ave	0.5918	0.5553		18.8	20.0	-6.2	20.0
Naphthalene	Ave	2.629	2.565		19.5	20.0	-2.4	20.0
1,2,3-Trichlorobenzene	Ave	0.9932	0.9560		19.3	20.0	-3.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2661	0.2447		9.20	10.0	-8.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3624	0.3140		8.66	10.0	-13.4	20.0
Toluene-d8 (Surr)	Ave	1.257	1.219		9.69	10.0	-3.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3613	0.3408		9.43	10.0	-5.7	20.0

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_003.D  
 Lims ID: ccvis  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 14-Oct-2020 16:05:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ccvis  
 Operator ID: cjb Instrument ID: TAC119  
 Sublist: chrom-DSS TAC119\*sub3  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Oct-2020 12:50:40 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 10:42:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.703	1.703	0.000	85	32244	20.0	31.3	
4 Chloromethane	50	1.922	1.922	0.000	82	68731	20.0	20.4	
5 Vinyl chloride	62	2.056	2.056	0.000	83	43702	20.0	22.1	
6 Butadiene	54	2.105	2.105	0.000	87	37498	20.0	17.8	
7 Bromomethane	94	2.465	2.465	0.000	86	19672	20.0	20.5	
8 Chloroethane	66	2.599	2.599	0.000	91	7327	20.0	25.6	M
10 Dichlorofluoromethane	67	2.910	2.910	0.000	94	66973	20.0	26.5	M
14 Trichlorofluoromethane	101	2.946	2.946	0.000	81	53234	20.0	20.6	M
11 3-Chloro-1-propene	76	2.965	2.965	0.000	47	934	20.0	15.8	M
17 Ethyl ether	59	3.324	3.324	0.000	98	39872	20.0	17.7	
12 Acrolein	56	3.507	3.507	0.000	86	57079	120.0	110.8	
19 1,1-Dichloroethene	96	3.690	3.690	0.000	82	26138	20.0	20.8	M
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.733	3.733	0.000	45	22891	20.0	19.0	
16 Acetone	43	3.733	3.733	0.000	97	94557	100.0	83.1	
22 Iodomethane	142	3.891	3.891	0.000	96	44798	20.0	19.6	M
26 Carbon disulfide	76	4.013	4.013	0.000	96	98685	20.0	20.8	M
15 Isopropyl alcohol	45	4.032	4.032	0.000	98	39493	200.0	160.8	
S 2 Xylenes, Total	100				0		40.0	35.3	
13 Acetonitrile	40	4.196	4.196	0.000	99	30106	250.0	209.8	
24 Methyl acetate	43	4.300	4.300	0.000	99	75418	40.0	33.3	
23 Methylene Chloride	84	4.531	4.531	0.000	85	48769	20.0	29.4	
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	48002	200.0	200.0	
20 2-Methyl-2-propanol	59	4.806	4.806	0.000	97	60921	200.0	182.8	
21 Acrylonitrile	53	4.976	4.976	0.000	100	169908	200.0	172.0	
27 trans-1,2-Dichloroethene	96	5.056	5.056	0.000	80	35633	20.0	18.4	
28 Methyl tert-butyl ether	73	5.068	5.068	0.000	85	104503	20.0	18.6	
34 Hexane	57	5.641	5.641	0.000	95	91028	20.0	18.4	
30 1,1-Dichloroethane	63	5.891	5.891	0.000	85	80386	20.0	17.7	
31 Vinyl acetate	86	5.982	5.982	0.000	97	19536	50.0	44.9	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	64	99677	20.0	17.6	
35 Isopropyl ether	45	6.049	6.049	0.000	59	225899	25.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Tert-butyl ethyl ether	87	6.690	6.690	0.000	97	56066	25.0	21.8	
43 2,2-Dichloropropane	77	6.909	6.909	0.000	66	59388	20.0	19.6	
37 cis-1,2-Dichloroethene	96	6.921	6.921	0.000	58	40734	20.0	18.7	
33 2-Butanone (MEK)	72	6.921	6.927	-0.006	97	22818	100.0	96.7	
29 Propionitrile	54	7.013	7.013	0.000	86	88949	250.0	234.7	
38 Ethyl acetate	43	7.049	7.049	0.000	97	103458	40.0	32.6	
36 Methacrylonitrile	67	7.257	7.257	0.000	97	153171	200.0	186.9	
39 Chlorobromomethane	130	7.293	7.293	0.000	75	23773	20.0	18.4	
40 Chloroform	83	7.506	7.506	0.000	82	66054	20.0	17.0	
48 1,1,1-Trichloroethane	97	7.702	7.702	0.000	87	60183	20.0	18.4	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.738	0.000	75	18910	10.0	9.20	
51 Cyclohexane	84	7.799	7.799	0.000	95	55514	20.0	19.9	
52 Carbon tetrachloride	117	7.921	7.921	0.000	80	55004	20.0	18.7	
50 1,1-Dichloropropene	75	7.945	7.945	0.000	82	53699	20.0	18.0	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	24266	10.0	8.66	
53 Benzene	78	8.195	8.195	0.000	94	157287	20.0	19.3	
42 Isobutyl alcohol	43	8.201	8.201	0.000	67	68067	500.0	373.1	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	83	64575	20.0	16.9	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	85	127532	25.0	21.3	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	97	77290	10.0	10.0	
56 n-Heptane	43	8.628	8.628	0.000	93	98873	20.0	16.8	
45 Tetrahydrofuran	42	8.634	8.634	0.000	34	27339	40.0	36.1	
61 Trichloroethene	132	9.024	9.024	0.000	89	40244	20.0	18.0	
57 Ethyl acrylate	55	9.153	9.153	0.000	95	64931	20.0	15.2	
49 n-Butanol	56	9.262	9.262	0.000	48	24070	500.0	404.0	
66 Methylcyclohexane	83	9.262	9.262	0.000	95	70572	20.0	19.3	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	87	46194	20.0	17.6	a
59 Dibromomethane	174	9.384	9.384	0.000	50	21580	20.0	18.7	
63 Methyl methacrylate	69	9.396	9.396	0.000	86	50575	40.0	36.9	
62 Dichlorobromomethane	83	9.585	9.585	0.000	87	51589	20.0	16.9	
58 2-Nitropropane	43	9.805	9.805	0.000	98	39716	40.0	27.8	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	87	8827	20.0	7.49	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	80	62463	20.0	17.3	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	99	92764	100.0	90.5	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	95	74663	10.0	9.69	
74 Toluene	91	10.341	10.341	0.000	94	176737	20.0	18.6	
70 n-Butyl acetate	43	10.475	10.475	0.000	86	9501	20.0	15.1	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	90	57298	20.0	17.4	
73 Ethyl methacrylate	69	10.622	10.622	0.000	89	43291	20.0	17.5	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	89	30990	20.0	18.2	
79 Tetrachloroethene	164	10.817	10.817	0.000	88	33559	20.0	19.7	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	93	56187	20.0	18.4	
76 2-Hexanone	58	10.933	10.933	0.000	95	91101	100.0	90.7	
77 Chlorodibromomethane	129	11.079	11.079	0.000	88	38223	20.0	17.2	
78 Ethylene Dibromide	107	11.170	11.170	0.000	96	31205	20.0	18.6	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	86	61260	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	91	113660	20.0	19.2	
80 1,1,1,2-Tetrachloroethane	131	11.676	11.676	0.000	44	38509	20.0	17.0	
83 Ethylbenzene	91	11.683	11.683	0.000	98	187860	20.0	19.5	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	144368	20.0	16.7	
88 o-Xylene	91	12.115	12.115	0.000	96	146322	20.0	18.6	
86 Styrene	104	12.128	12.128	0.000	89	101799	20.0	17.7	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 Bromoform	173	12.286	12.286	0.000	93	22274	20.0	16.8	
91 Isopropylbenzene	105	12.414	12.414	0.000	96	180322	20.0	18.5	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	83	20875	10.0	9.43	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	89	37783	20.0	20.5	
93 Bromobenzene	156	12.682	12.682	0.000	93	38726	20.0	18.3	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	52	16996	20.0	17.5	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	39	11394	20.0	19.0	
94 N-Propylbenzene	91	12.749	12.749	0.000	88	211419	20.0	20.2	
95 2-Chlorotoluene	126	12.829	12.829	0.000	95	40934	20.0	19.4	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	95	149779	20.0	19.8	
96 4-Chlorotoluene	126	12.926	12.926	0.000	82	40755	20.0	18.6	
98 tert-Butylbenzene	119	13.152	13.152	0.000	95	138405	20.0	19.9	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	66	144727	20.0	19.2	
100 sec-Butylbenzene	105	13.322	13.322	0.000	95	197631	20.0	20.2	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	93	76243	20.0	19.9	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	97	161796	20.0	20.0	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	66	24725	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	91	73336	20.0	19.1	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	97	148125	20.0	18.5	
101 Benzyl chloride	126	13.597	13.597	0.000	99	16078	20.0	19.6	
108 n-Butylbenzene	134	13.761	13.761	0.000	97	39626	20.0	19.8	
107 1,2-Dichlorobenzene	146	13.792	13.792	0.000	93	71885	20.0	19.6	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.401	0.000	68	8125	20.0	20.6	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	94	52117	20.0	18.5	
111 1,2,4-Trichlorobenzene	180	15.036	15.036	0.000	92	47429	20.0	19.9	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	93	27461	20.0	18.8	
112 Naphthalene	128	15.249	15.249	0.000	97	126841	20.0	19.5	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	92	47276	20.0	19.3	
\$ 118 BFB	95	12.560	12.560	0.000	83	27624	NR	NR	8

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

8 - Failed MS Tune Ratio Test

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

VOAMasterMix\_00057

Amount Added: 2.00

Units: uL

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_003.D

Injection Date: 14-Oct-2020 16:05:30

Instrument ID: TAC119

Lims ID: ccvis

Client ID:

Operator ID: cjb

ALS Bottle#: 3

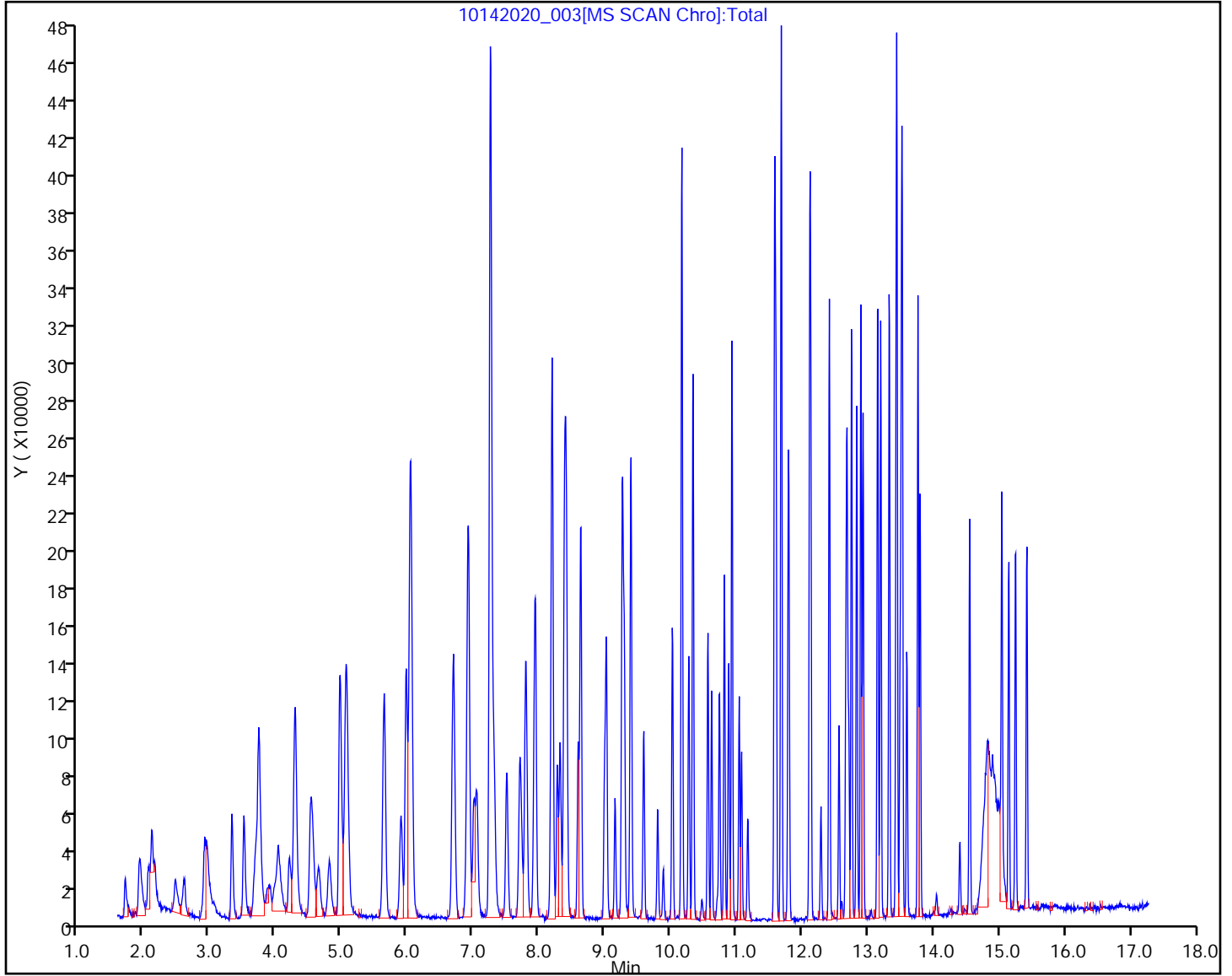
Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle

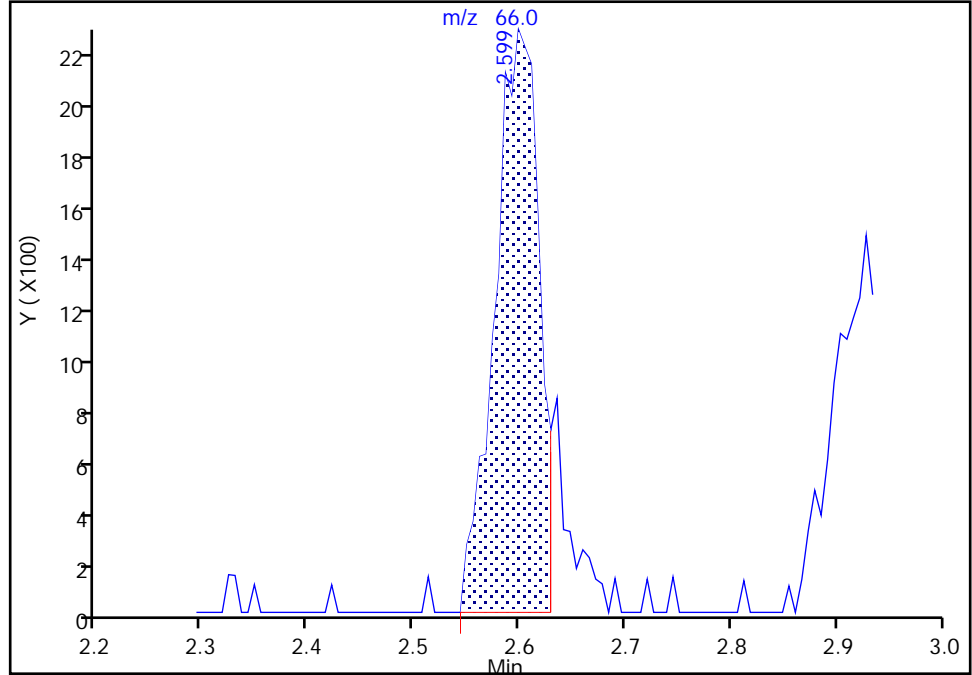
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Injection Date: 14-Oct-2020 16:05:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Signal: 1

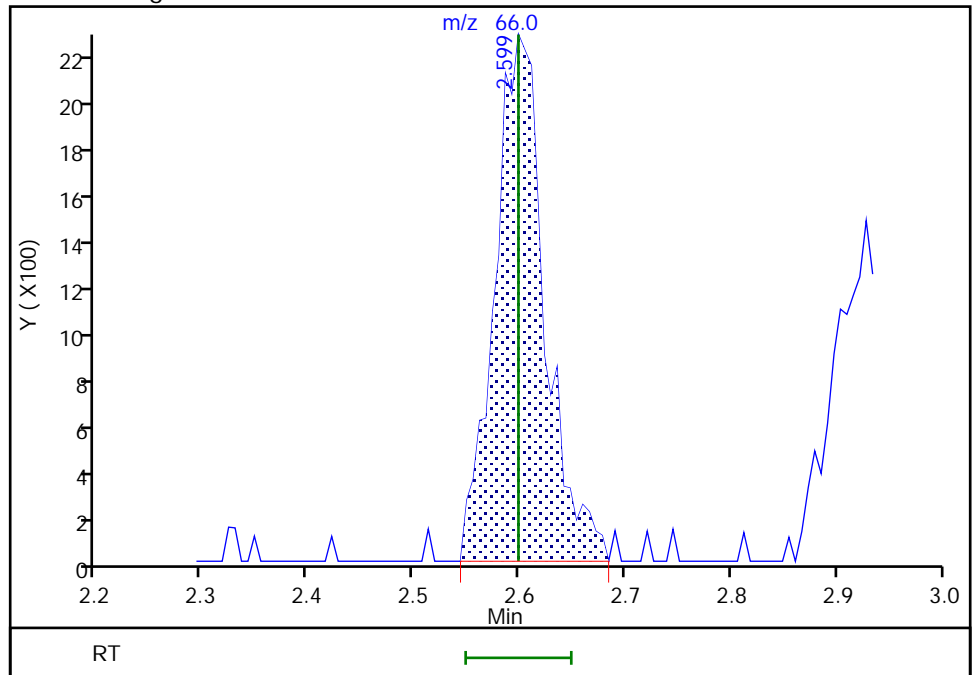
RT: 2.60  
Area: 6487  
Amount: 22.785843  
Amount Units: ug/L

Processing Integration Results



RT: 2.60  
Area: 7327  
Amount: 25.647711  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Oct-2020 10:35:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Seattle

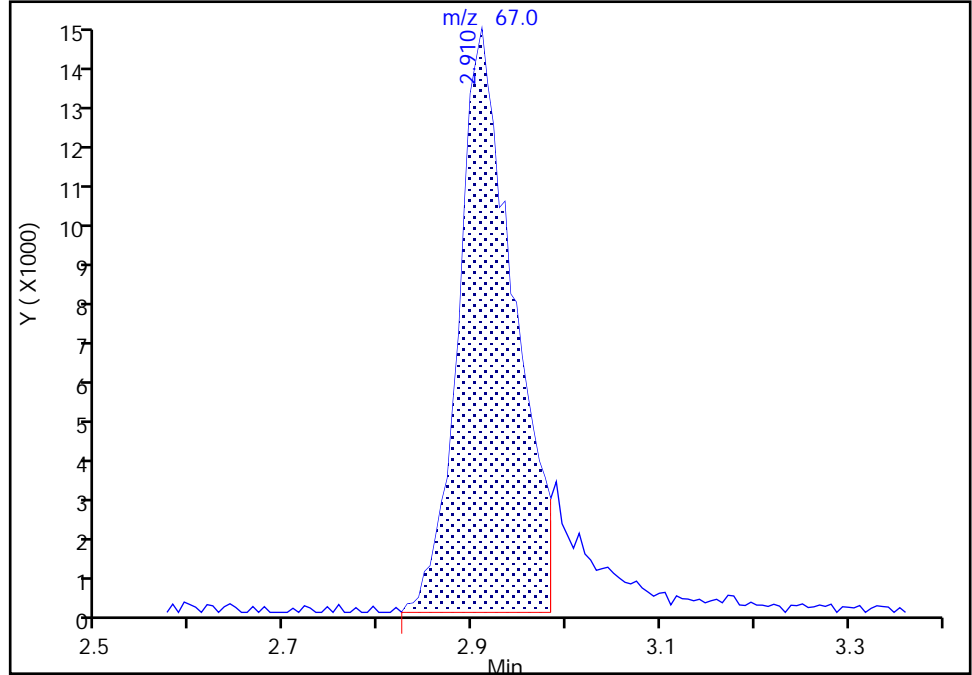
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Injection Date: 14-Oct-2020 16:05:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

10 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

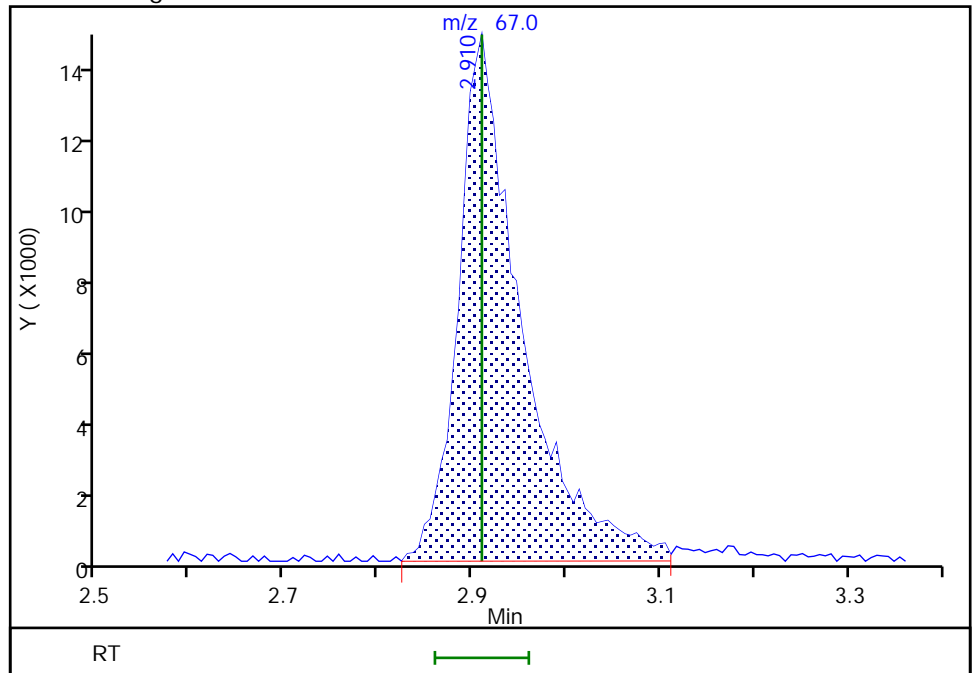
RT: 2.91  
Area: 58491  
Amount: 23.140267  
Amount Units: ug/L

Processing Integration Results



RT: 2.91  
Area: 66973  
Amount: 26.495924  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

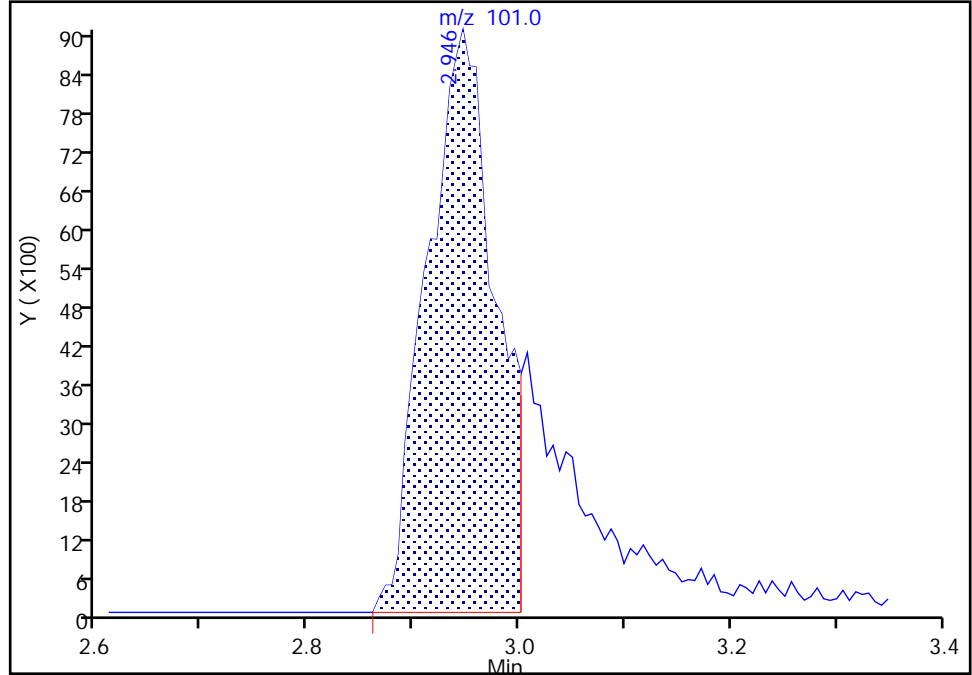
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Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

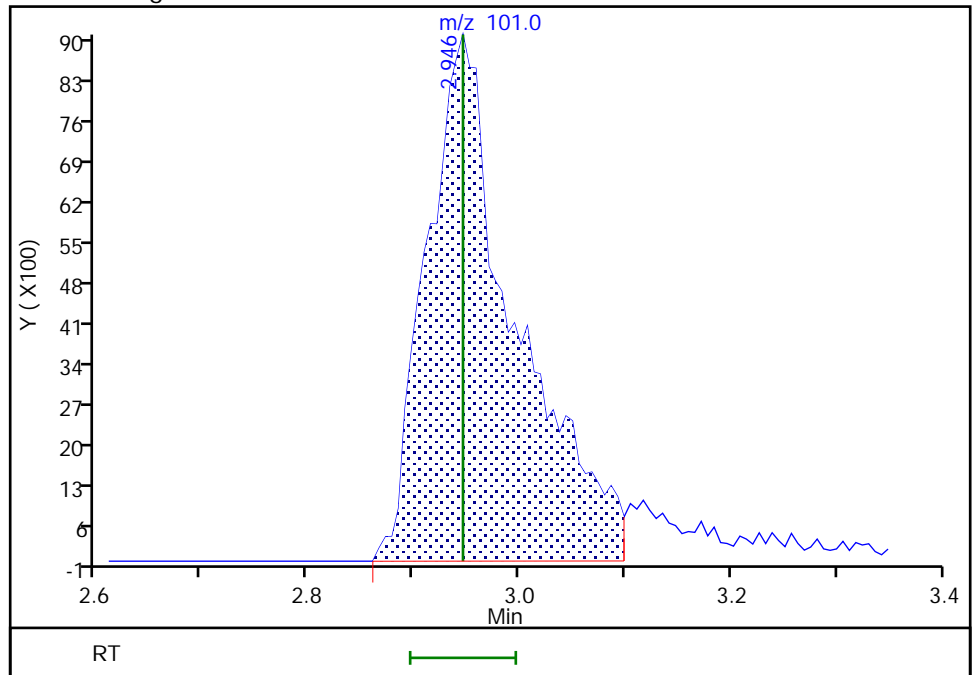
RT: 2.95  
Area: 41171  
Amount: 15.969982  
Amount Units: ug/L

Processing Integration Results



RT: 2.95  
Area: 53234  
Amount: 20.649147  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Oct-2020 10:35:50  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Seattle

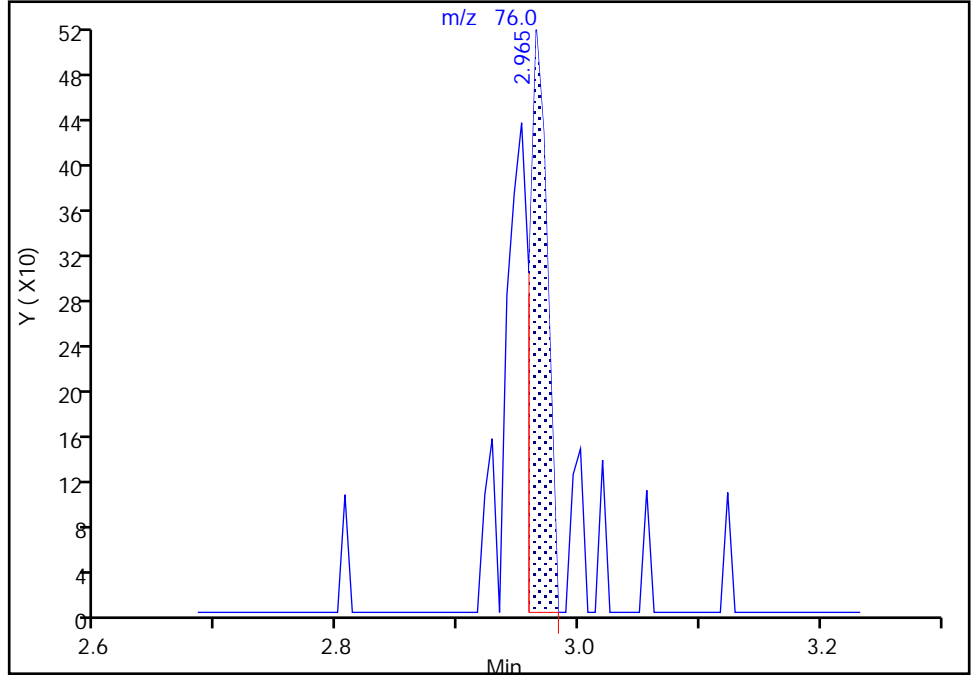
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Injection Date: 14-Oct-2020 16:05:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

11 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

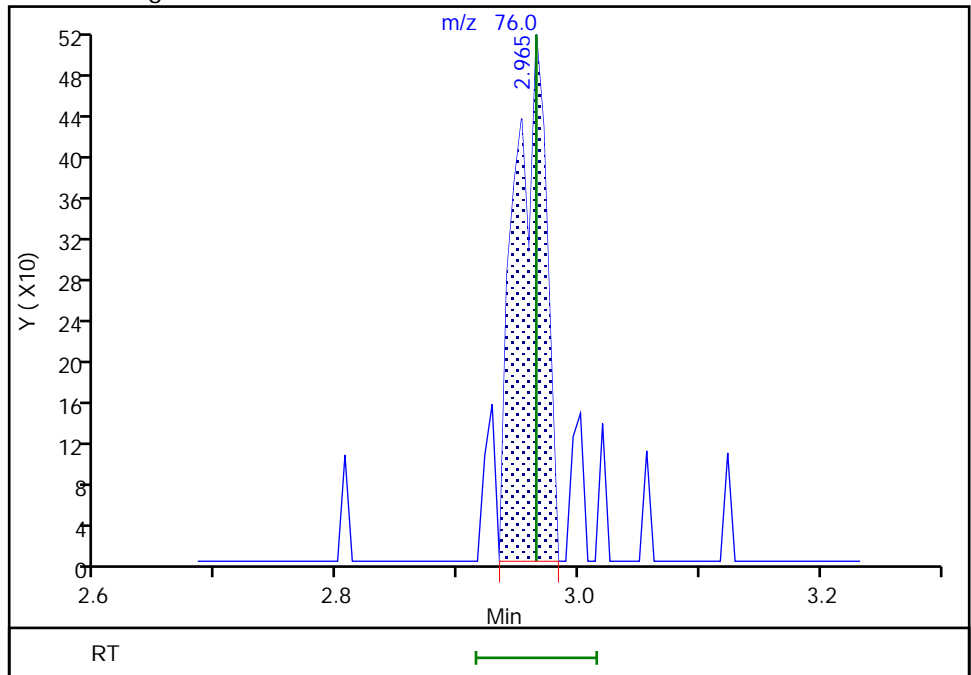
RT: 2.96  
Area: 534  
Amount: 8.577151  
Amount Units: ug/L

Processing Integration Results



RT: 2.96  
Area: 934  
Amount: 15.842942  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Oct-2020 10:36:07  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

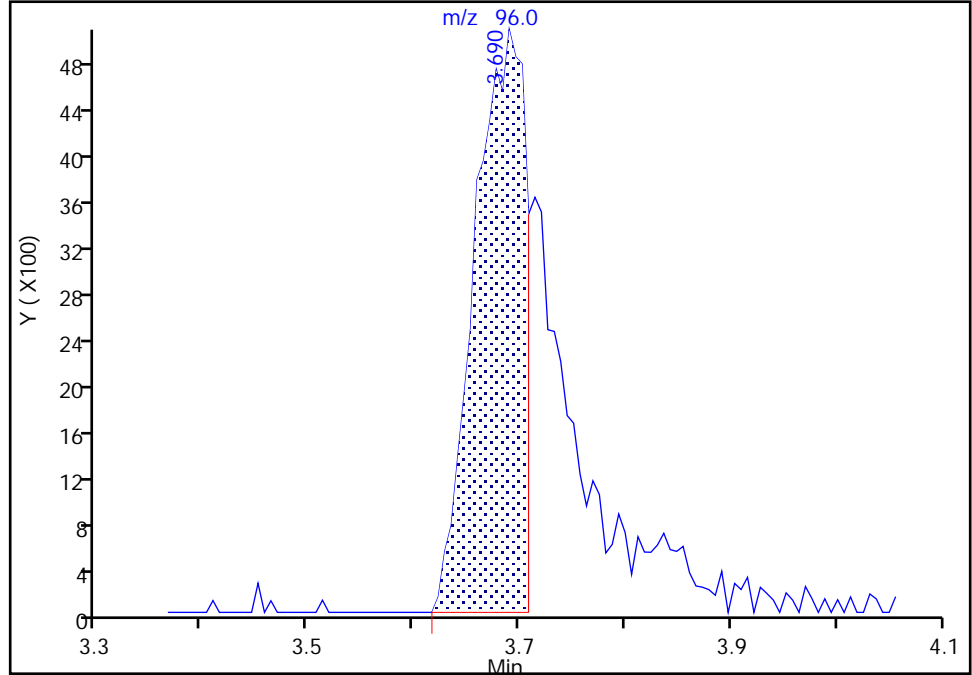
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Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

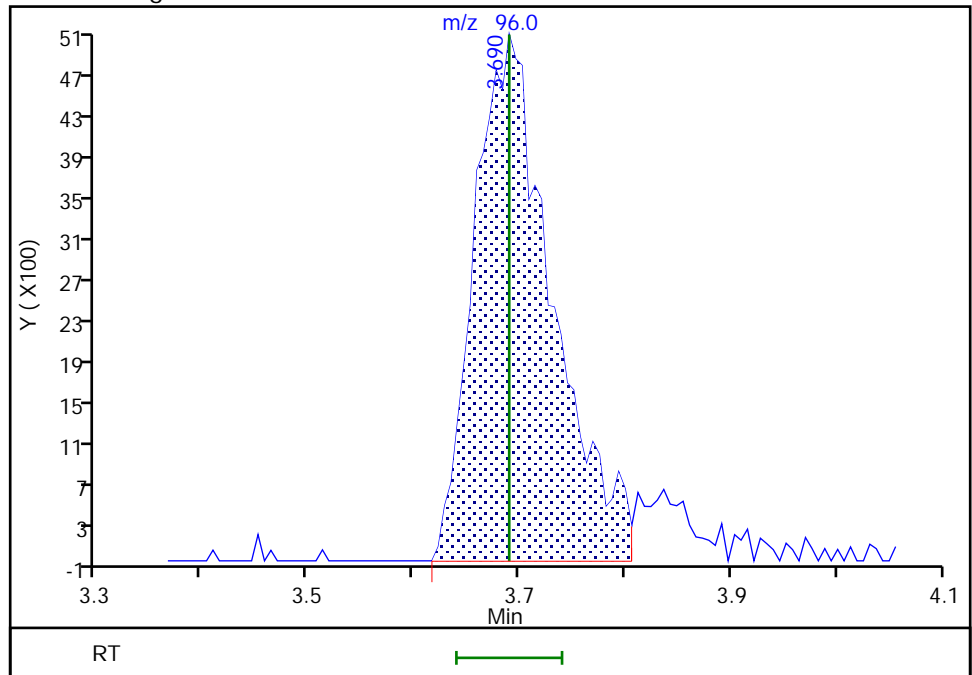
RT: 3.69  
Area: 17006  
Amount: 13.552117  
Amount Units: ug/L

Processing Integration Results



RT: 3.69  
Area: 26138  
Amount: 20.829426  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Oct-2020 10:36:38  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

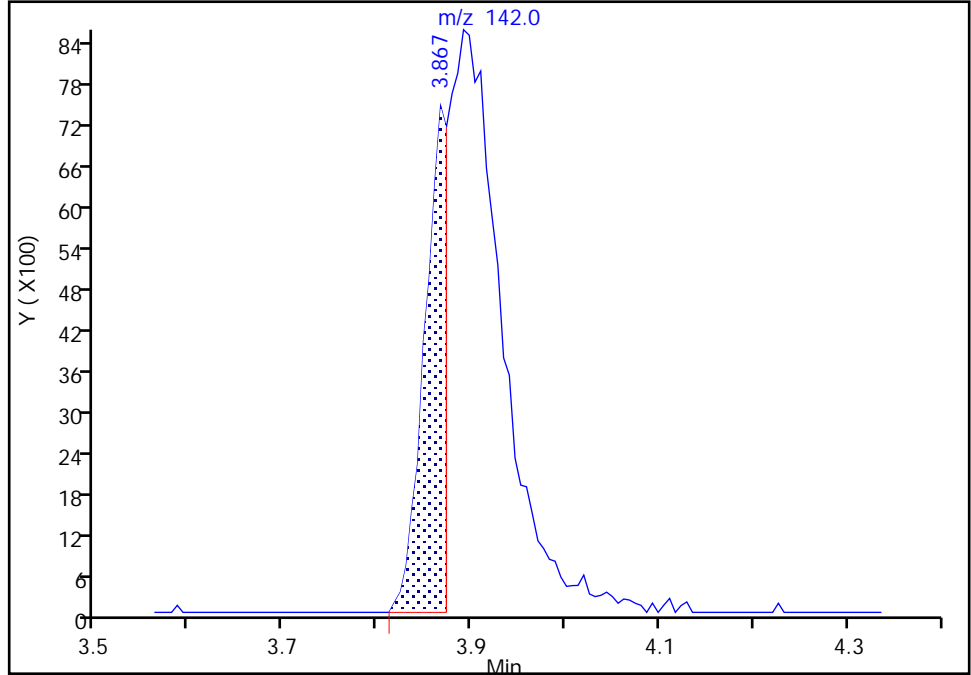
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Injection Date: 14-Oct-2020 16:05:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

22 Iodomethane, CAS: 74-88-4

Signal: 1

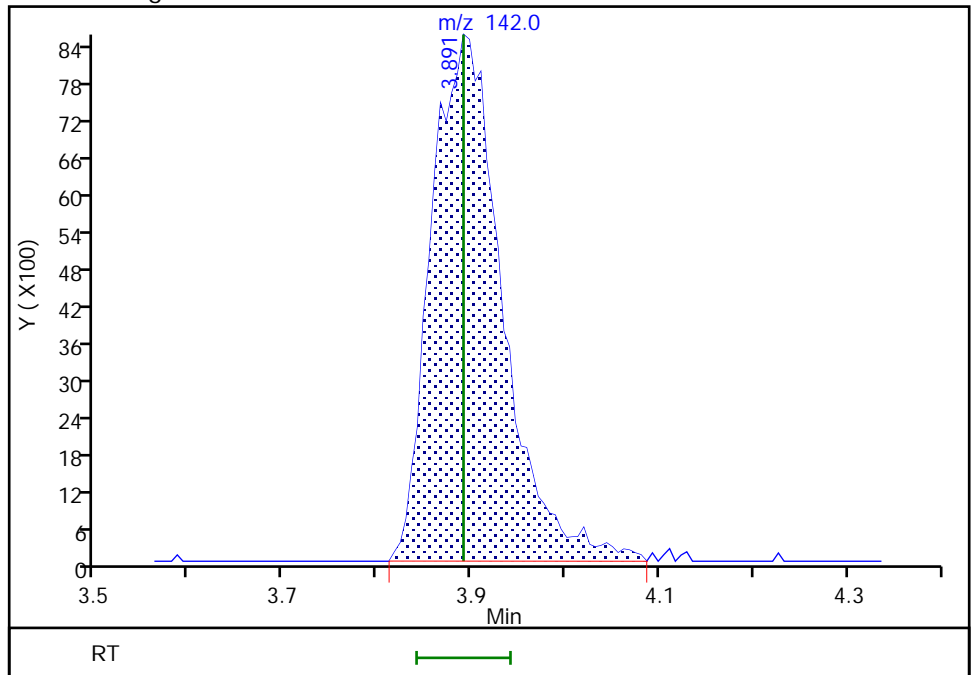
RT: 3.87  
Area: 12641  
Amount: 5.532285  
Amount Units: ug/L

Processing Integration Results



RT: 3.89  
Area: 44798  
Amount: 19.605674  
Amount Units: ug/L

Manual Integration Results



Reviewer: limwirojt, 15-Oct-2020 10:37:17  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 584 of 974



Eurofins TestAmerica, Seattle

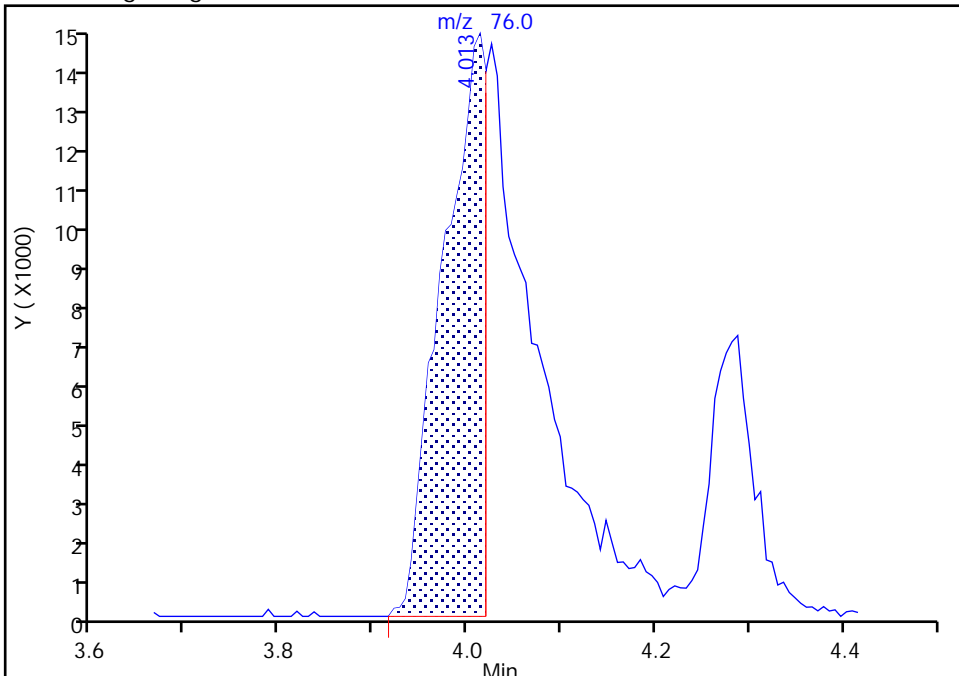
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Injection Date: 14-Oct-2020 16:05:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

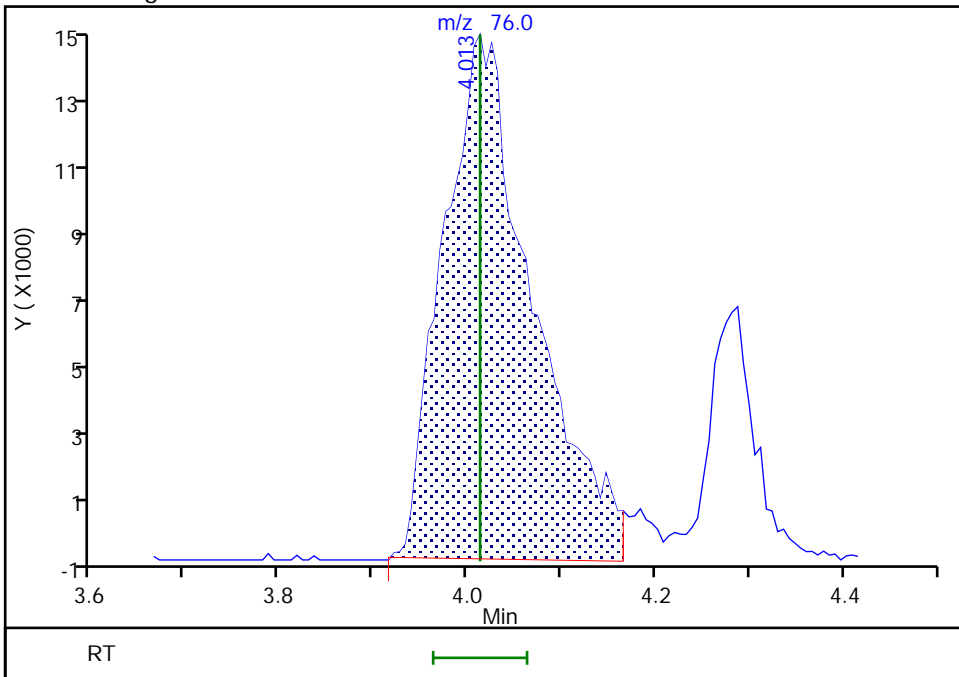
RT: 4.01  
Area: 48039  
Amount: 10.114850  
Amount Units: ug/L

Processing Integration Results



RT: 4.01  
Area: 98685  
Amount: 20.778617  
Amount Units: ug/L

Manual Integration Results



Reviewer: bohnc, 14-Oct-2020 16:25:36  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

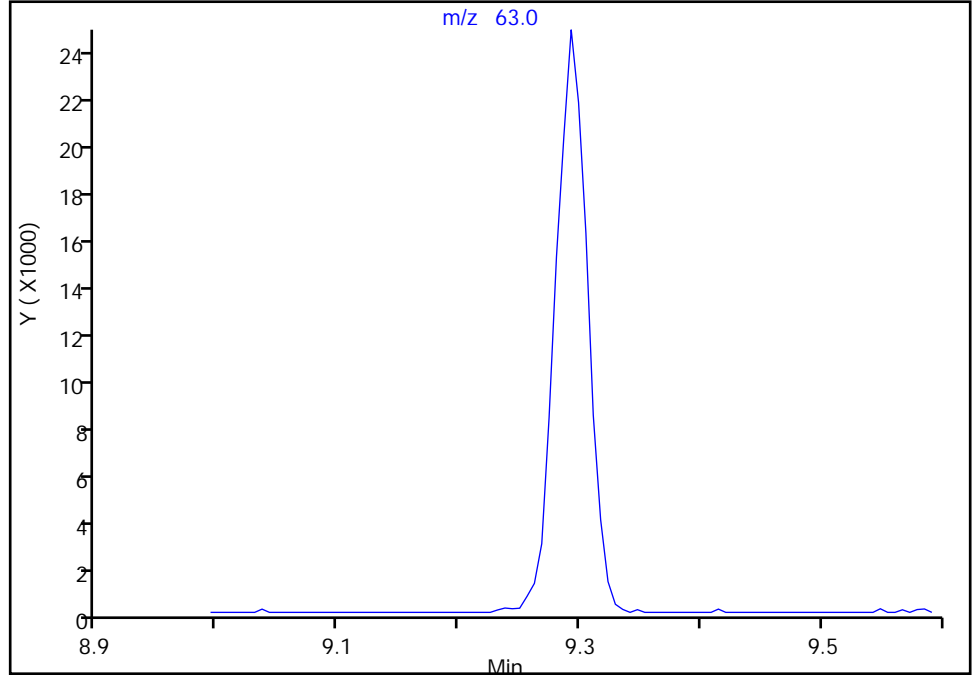
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Injection Date: 14-Oct-2020 16:05:30 Instrument ID: TAC119  
Lims ID: ccvis  
Client ID:  
Operator ID: cjb ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

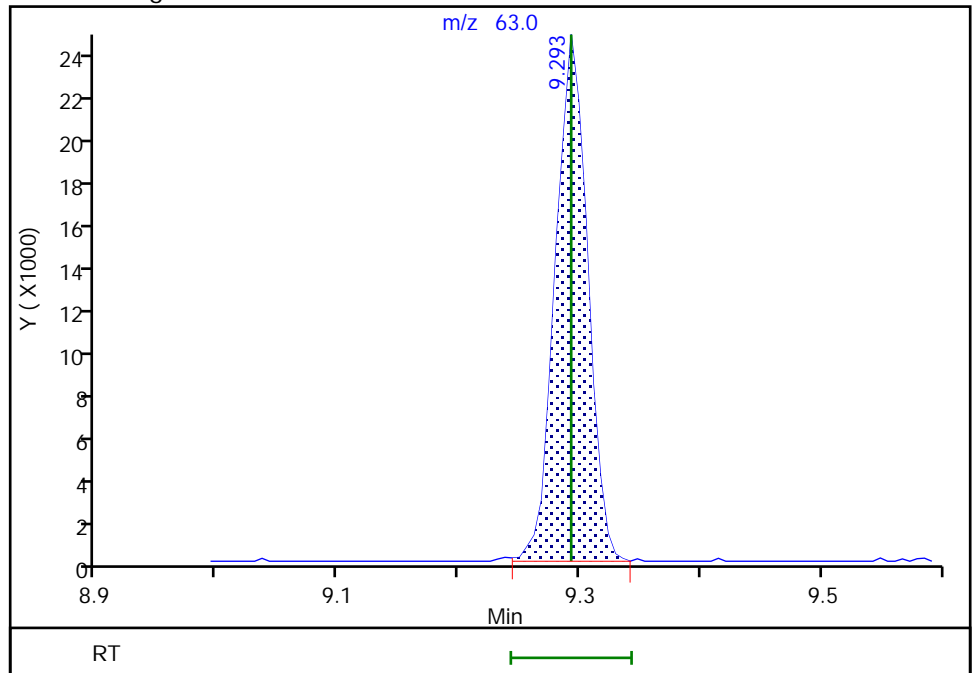
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 46194  
Amount: 17.620041  
Amount Units: ug/L



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 01-Oct-2020 16:55:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Sample Info: rb  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 02-Oct-2020 10:58:35 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1029

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	41909	200.0	200.0	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	71	18028	10.0	9.55	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.171	8.171	0.000	0	24269	10.0	9.44	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	96	70953	10.0	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	95	70197	10.0	9.99	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	88	55907	10.0	10.0	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	83	18976	10.0	9.39	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	96	22357	10.0	10.0	
\$ 118 BFB	95	12.560	12.560	0.000	84	25498	NR	NR	

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002.D

Injection Date: 01-Oct-2020 16:55:30

Instrument ID: TAC119

Lims ID: BFB

Client ID:

Operator ID: cjb

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 5.0 mL

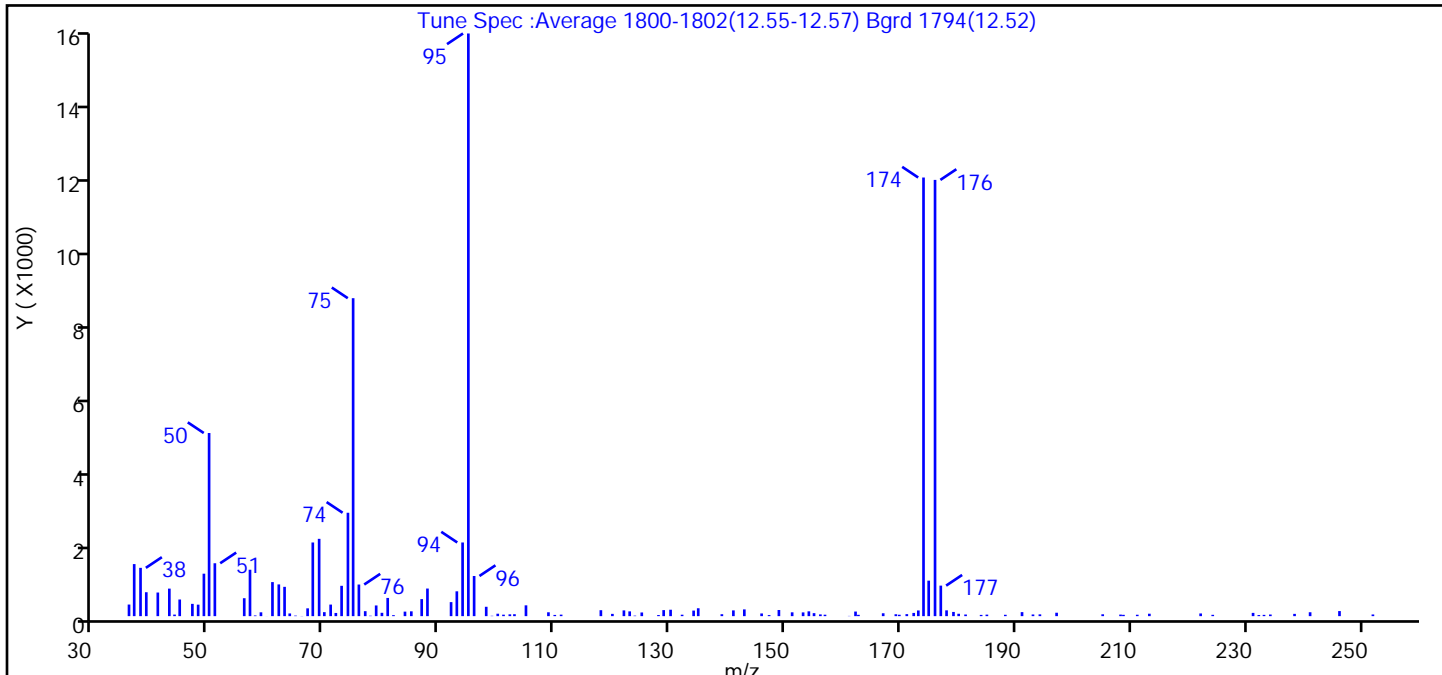
Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C

Tune Method: BFB Method 8260

\$ 118 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	31.4
75	30 to 60% of m/z 95	54.6
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	1.0 (1.3)
174	50 to 120% of m/z 95	75.3
175	5 to 9% of m/z 174	6.1 (8.1)
176	Greater than 95% but less than 101% of m/z 174	74.9 (99.5)
177	5 to 9% of m/z 176	5.2 (7.0)

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002.D\DSS TAC119.rsl\spectra.d  
Injection Date: 01-Oct-2020 16:55:30  
Spectrum: Tune Spec :Average 1800-1802(12.55-12.57) Bgrd 1794(12.52)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 122

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	306	74.00	2727	123.00	126	175.00	936
37.00	1373	75.00	8386	124.00	13	176.00	11506
38.00	1274	76.00	834	125.00	97	177.00	805
39.00	631	77.00	131	128.00	29	178.00	153
41.00	623	78.00	11	129.00	159	179.00	111
43.00	726	79.00	282	130.00	169	180.00	63
44.00	41	80.00	88	132.00	38	181.00	43
45.00	439	81.00	480	134.00	147	184.00	33
47.00	324	82.00	26	135.00	208	185.00	40
48.00	303	84.00	119	139.00	51	188.00	36
49.00	1120	85.00	127	141.00	152	191.00	106
50.00	4830	87.00	449	143.00	178	193.00	44
51.00	1395	88.00	728	146.00	71	194.00	47
56.00	473	92.00	370	147.00	28	197.00	90
57.00	1224	93.00	655	149.00	162	205.00	49
58.00	18	94.00	1943	151.00	101	208.00	41
59.00	101	95.00	15368	153.00	99	209.00	35
60.00	1	96.00	1059	154.00	127	211.00	37
61.00	898	98.00	247	155.00	79	213.00	64
62.00	837	99.00	9	156.00	46	222.00	71
63.00	773	100.00	64	157.00	38	224.00	35
64.00	71	101.00	39	161.00	6	231.00	86
65.00	14	102.00	48	162.00	121	232.00	29
66.00	4	103.00	51	163.00	35	233.00	34
67.00	206	105.00	285	167.00	76	234.00	43
68.00	1943	109.00	102	169.00	50	238.00	60
69.00	2039	110.00	32	170.00	37	241.00	103
70.00	105	111.00	40	171.00	53	246.00	134
71.00	305	118.00	157	172.00	85	252.00	44
72.00	84	120.00	60	173.00	150		
73.00	800	122.00	152	174.00	11569		

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_002.D

Injection Date: 01-Oct-2020 16:55:30

Instrument ID: TAC119

Lims ID: BFB

Client ID:

Operator ID: cjb

ALS Bottle#: 2

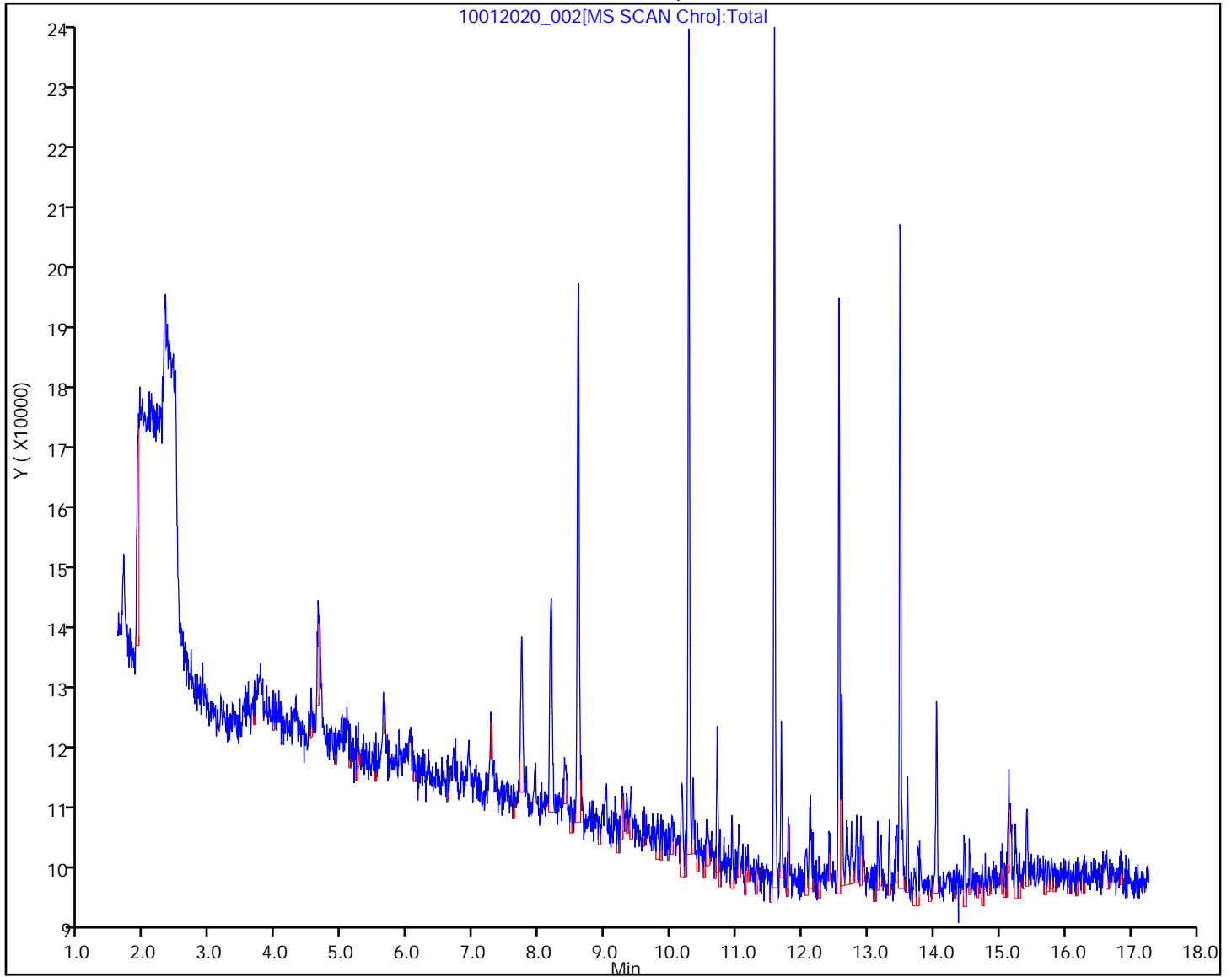
Worklist Smp#: 2

Injection Vol: 5.0 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_002.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 07-Oct-2020 13:54:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Sample Info: bfb  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 13-Oct-2020 11:26:21 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1629

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 18 TBA-d9 (IS)	65	4.641	4.641	0.000	0	42051	200.0	200.0	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.732	0.000	62	17686	10.0	9.50	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	23567	10.0	9.30	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	97	69935	10.0	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	95	67712	10.0	10.0	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	88	53653	10.0	10.0	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	81	18331	10.0	9.46	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	95	23737	10.0	10.0	
\$ 118 BFB	95	12.560	12.560	0.000	81	25822	NR	NR	

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

5X SUR/IS\_00001

Amount Added: 1.00

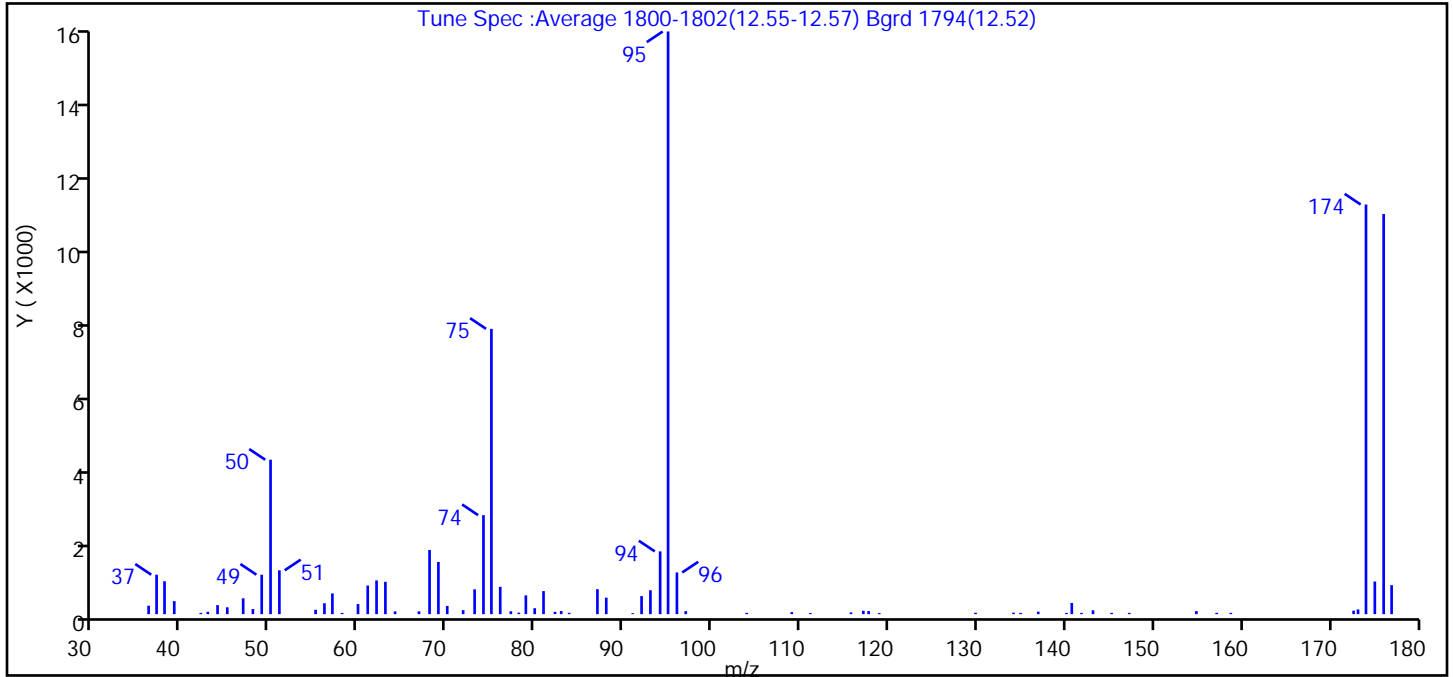
Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_002.D  
 Injection Date: 07-Oct-2020 13:54:30 Instrument ID: TAC119  
 Lims ID: BFB  
 Client ID:  
 Operator ID: jsm ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Tune Method: BFB Method 8260

\$ 118 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	26.5
75	30 to 60% of m/z 95	49.0
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	1.4 (2.0)
174	50 to 120% of m/z 95	70.3
175	5 to 9% of m/z 174	5.6 (8.0)
176	Greater than 95% but less than 101% of m/z 174	68.7 (97.7)
177	5 to 9% of m/z 176	5.0 (7.2)



Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_002.D\DSS TAC119.rsl\spectra.d  
 Injection Date: 07-Oct-2020 13:54:30  
 Spectrum: Tune Spec :Average 1800-1802(12.55-12.57) Bgrd 1794(12.52)  
 Base Peak: 95.00  
 Minimum % Base Peak: 0  
 Number of Points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	231	62.00	923	84.00	37	135.00	35
37.00	1080	63.00	885	87.00	684	137.00	69
38.00	901	64.00	76	88.00	452	140.00	34
39.00	357	67.00	77	91.00	26	141.00	307
42.00	34	68.00	1758	92.00	494	142.00	35
43.00	65	69.00	1430	93.00	655	143.00	105
44.00	247	70.00	225	94.00	1719	145.00	37
45.00	188	72.00	109	95.00	15961	147.00	36
47.00	434	73.00	680	96.00	1142	155.00	83
48.00	139	74.00	2712	97.00	81	157.00	37
49.00	1081	75.00	7815	104.00	36	159.00	36
50.00	4230	76.00	748	109.00	56	173.00	95
51.00	1201	77.00	79	111.00	33	173.00	129
55.00	121	78.00	41	116.00	47	174.00	11221
56.00	298	79.00	514	117.00	92	175.00	894
57.00	568	80.00	163	118.00	84	176.00	10960
58.00	35	81.00	632	119.00	30	177.00	794
60.00	276	82.00	64	130.00	39		
61.00	783	83.00	85	134.00	41		

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_002.D

Injection Date: 07-Oct-2020 13:54:30

Instrument ID: TAC119

Lims ID: BFB

Client ID:

Operator ID: jsm

ALS Bottle#: 2

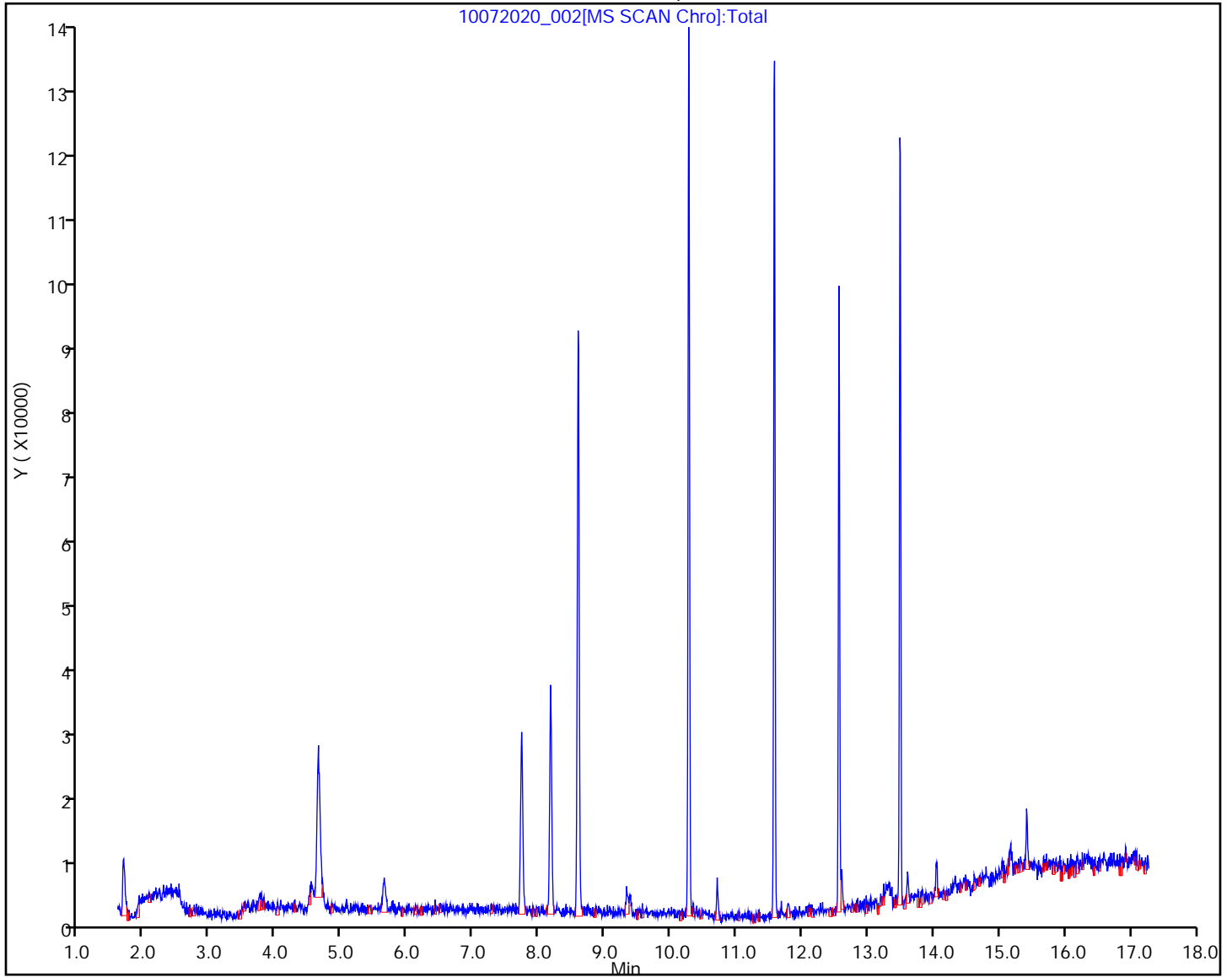
Worklist Smp#: 2

Injection Vol: 5.0 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_002.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 14-Oct-2020 15:40:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Sample Info: bfb  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Oct-2020 11:53:03 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 11:53:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	46176	200.0	200.0	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.738	0.000	69	19598	10.0	9.56	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	26217	10.0	9.38	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	97	77081	10.0	10.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	77959	10.0	9.86	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	87	62909	10.0	10.0	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	85	21911	10.0	9.64	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	95	26012	10.0	10.0	
\$ 118 BFB	95	12.560	12.560	0.000	85	28636	NR	NR	a

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

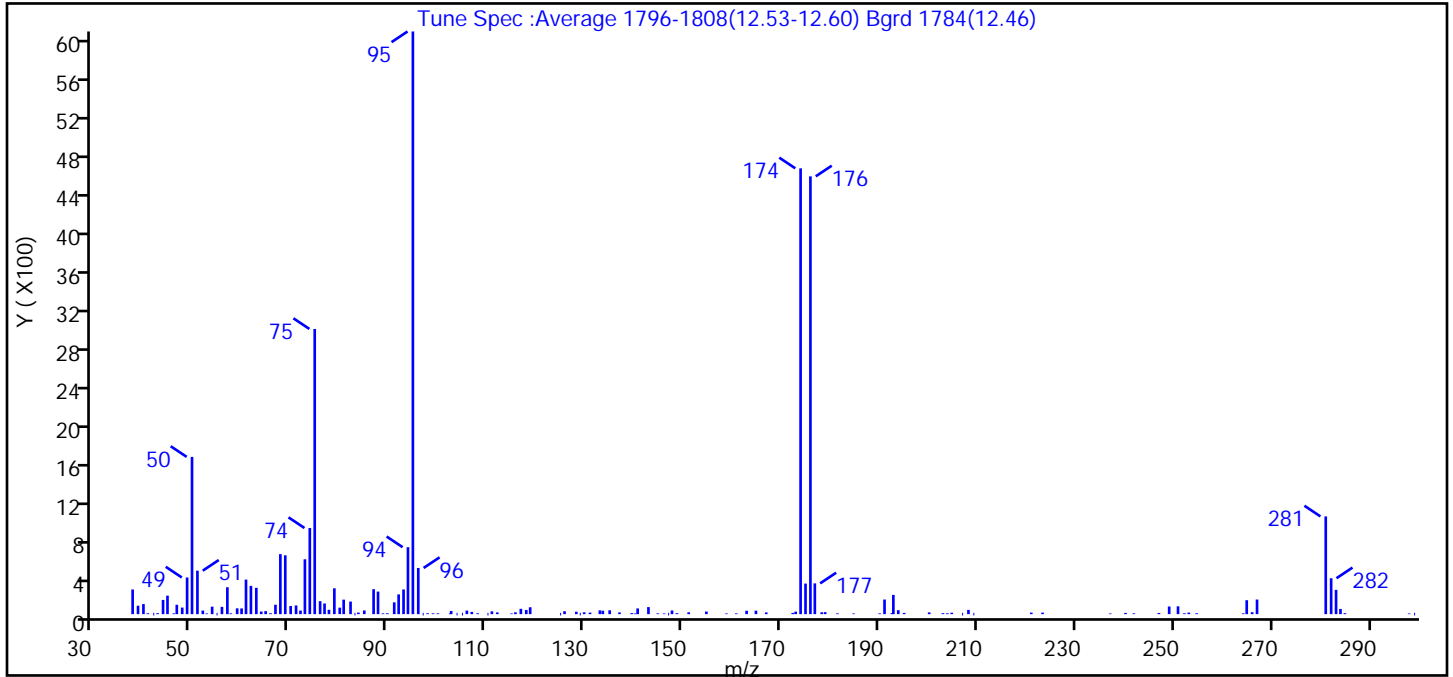
Reagents:

5X SUR/IS\_00001 Amount Added: 1.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_002.D  
 Injection Date: 14-Oct-2020 15:40:30 Instrument ID: TAC119  
 Lims ID: BFB  
 Client ID:  
 Operator ID: cjb ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 5.0 mL Dil. Factor: 1.0000  
 Method: DSS TAC119 Limit Group: 8260C  
 Tune Method: BFB Method 8260

\$ 118 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	27.0
75	30 to 60% of m/z 95	48.9
96	5 to 9% of m/z 95	7.9
173	Less than 2% of m/z 174	0.4 (0.6)
174	50 to 120% of m/z 95	76.5
175	5 to 9% of m/z 174	5.2 (6.9)
176	Greater than 95% but less than 101% of m/z 174	75.1 (98.2)
177	5 to 9% of m/z 176	5.3 (7.0)

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_002.D\DSS TAC119.rsl\spectra.d  
 Injection Date: 14-Oct-2020 15:40:30  
 Spectrum: Tune Spec :Average 1796-1808(12.53-12.60) Bgrd 1784(12.46)  
 Base Peak: 95.00  
 Minimum % Base Peak: 0  
 Number of Points: 148

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	255	75.00	2947	117.00	55	182.00	8
39.00	87	76.00	134	118.00	43	185.00	7
40.00	104	77.00	110	119.00	71	190.00	8
41.00	9	78.00	45	125.00	0	191.00	151
42.00	0	79.00	267	126.00	30	193.00	11
43.00	10	80.00	67	128.00	25	193.00	199
44.00	147	81.00	150	129.00	0	194.00	41
45.00	191	82.00	130	130.00	19	195.00	13
46.00	8	83.00	0	131.00	16	200.00	18
47.00	97	84.00	16	133.00	39	203.00	10
48.00	68	85.00	38	134.00	35	204.00	9
49.00	379	87.00	258	135.00	40	205.00	15
50.00	1625	88.00	233	137.00	18	207.00	0
51.00	449	89.00	8	140.00	11	208.00	44
52.00	37	90.00	9	140.00	7	209.00	0
53.00	7	91.00	122	141.00	59	221.00	16
54.00	77	92.00	204	143.00	73	223.00	16
55.00	0	93.00	255	145.00	8	237.00	7
56.00	75	94.00	692	146.00	7	240.00	13
57.00	278	95.00	6021	147.00	0	242.00	8
58.00	8	96.00	477	148.00	38	247.00	12
59.00	60	97.00	0	149.00	10	249.00	79
60.00	59	98.00	9	151.00	19	251.00	81
61.00	357	99.00	8	155.00	27	252.00	9
62.00	292	100.00	8	159.00	7	253.00	16
63.00	272	103.00	7	161.00	8	255.00	9
64.00	27	103.00	33	163.00	35	264.00	8
65.00	31	104.00	0	165.00	36	265.00	144
66.00	9	105.00	0	167.00	18	266.00	20
67.00	97	106.00	37	172.00	13	267.00	151
68.00	620	107.00	23	173.00	26	281.00	1010
69.00	608	108.00	9	174.00	4607	282.00	371
70.00	84	110.00	0	175.00	316	283.00	251

Report Date: 15-Oct-2020 11:53:05

Chrom Revision: 2.3 24-Sep-2020 19:22:38

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_002.D\SS TAC119.rslt\spectra.d

Injection Date: 14-Oct-2020 15:40:30

Spectrum: Tune Spec :Average 1796-1808(12.53-12.60) Bgrd 1784(12.46)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 148

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	90	111.00	29	176.00	4524	284.00	54
72.00	37	112.00	18	177.00	318	285.00	10
73.00	567	115.00	7	178.00	19	298.00	7
74.00	890	116.00	19	179.00	21	299.00	0

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_002.D

Injection Date: 14-Oct-2020 15:40:30

Instrument ID: TAC119

Lims ID: BFB

Client ID:

Operator ID: cjb

ALS Bottle#: 2

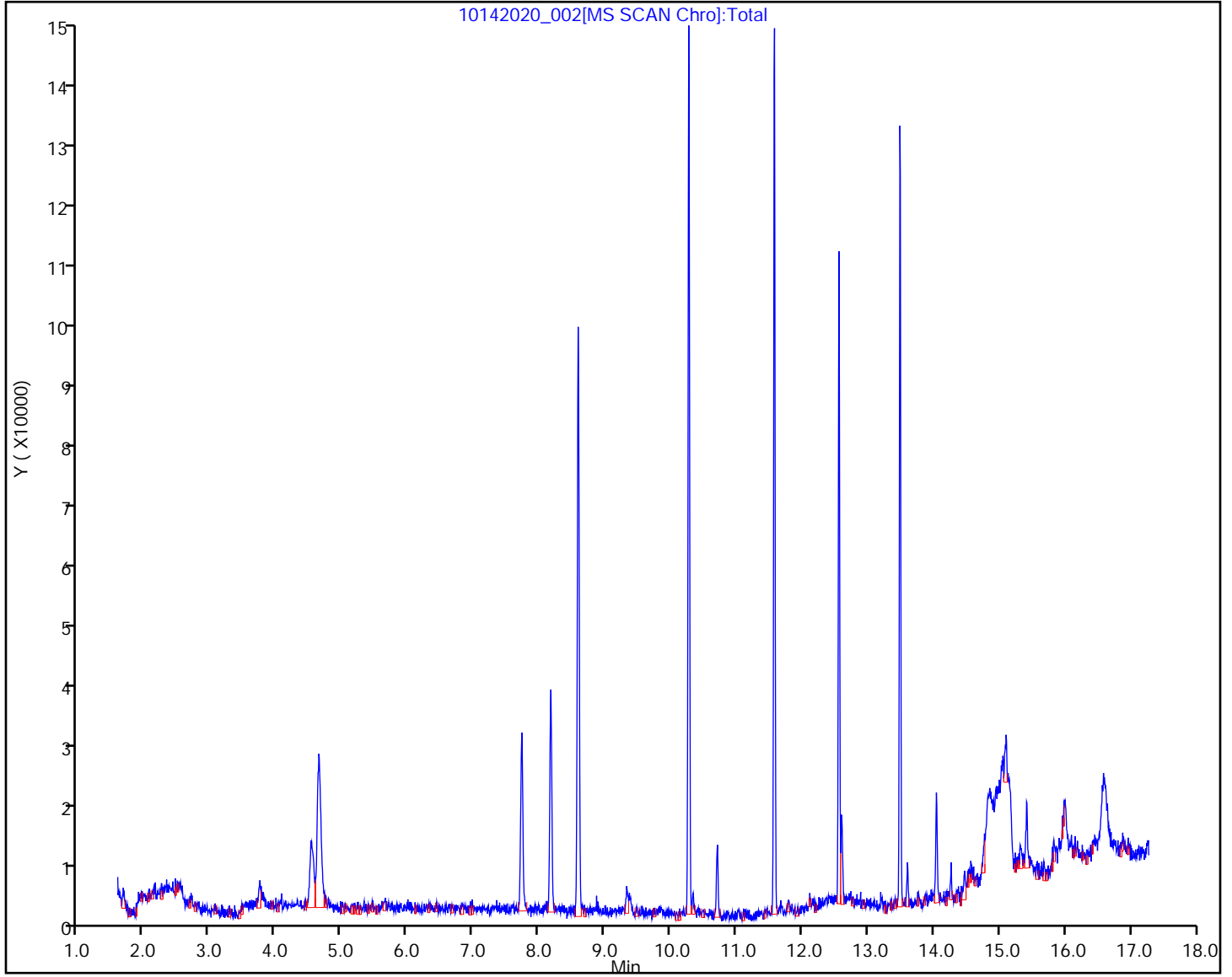
Worklist Smp#: 2

Injection Vol: 5.0 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-340245/1-A  
 Matrix: Solid Lab File ID: 10072020\_007.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 10/07/2020 16:03  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	ND		2.0	
74-87-3	Chloromethane	ND		5.0	
75-01-4	Vinyl chloride	ND		2.0	
74-83-9	Bromomethane	ND		1.0	
75-00-3	Chloroethane	ND		10	
75-69-4	Trichlorofluoromethane	ND		2.0	
75-35-4	1,1-Dichloroethene	ND		5.0	
75-09-2	Methylene Chloride	ND		40	
1634-04-4	Methyl tert-butyl ether	ND		2.0	
156-60-5	trans-1,2-Dichloroethene	ND		2.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
594-20-7	2,2-Dichloropropane	ND		5.0	
156-59-2	cis-1,2-Dichloroethene	ND		3.0	
74-97-5	Chlorobromomethane	ND		2.0	
67-66-3	Chloroform	ND		2.0	
71-55-6	1,1,1-Trichloroethane	ND		2.0	
56-23-5	Carbon tetrachloride	ND		2.0	
563-58-6	1,1-Dichloropropene	ND		2.0	
71-43-2	Benzene	ND		2.0	
107-06-2	1,2-Dichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		2.0	
78-87-5	1,2-Dichloropropane	ND		2.0	
74-95-3	Dibromomethane	ND		1.0	
75-27-4	Dichlorobromomethane	ND		1.0	
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	
108-88-3	Toluene	ND		10	
10061-02-6	trans-1,3-Dichloropropene	ND		10	
79-00-5	1,1,2-Trichloroethane	ND		2.0	
127-18-4	Tetrachloroethene	ND		2.0	
142-28-9	1,3-Dichloropropane	ND		2.0	
124-48-1	Chlorodibromomethane	ND		1.5	
106-93-4	Ethylene Dibromide	ND		1.0	
108-90-7	Chlorobenzene	ND		2.0	
630-20-6	1,1,1,2-Tetrachloroethane	ND		3.0	
100-41-4	Ethylbenzene	ND		2.0	
179601-23-1	m-Xylene & p-Xylene	ND		10	



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-340245/1-A  
 Matrix: Solid Lab File ID: 10072020\_007.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 10/07/2020 16:03  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	ND		5.0	
100-42-5	Styrene	ND		3.0	
75-25-2	Bromoform	ND		5.0	
98-82-8	Isopropylbenzene	ND		2.0	
108-86-1	Bromobenzene	ND		10	
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	
96-18-4	1,2,3-Trichloropropane	ND		5.0	
103-65-1	N-Propylbenzene	ND		5.0	
95-49-8	2-Chlorotoluene	ND		5.0	
106-43-4	4-Chlorotoluene	ND		5.0	
98-06-6	tert-Butylbenzene	ND		3.0	
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	
135-98-8	sec-Butylbenzene	ND		3.0	
99-87-6	4-Isopropyltoluene	ND		2.0	
541-73-1	1,3-Dichlorobenzene	ND		5.0	
106-46-7	1,4-Dichlorobenzene	ND		5.0	
104-51-8	n-Butylbenzene	ND		3.0	
95-50-1	1,2-Dichlorobenzene	ND		10	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	
87-68-3	Hexachlorobutadiene	ND		3.0	
91-20-3	Naphthalene	ND		10	
87-61-6	1,2,3-Trichlorobenzene	ND		3.0	
108-67-8	1,3,5-Trimethylbenzene	ND		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		80-121
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_007.D  
 Lims ID: MB 580-340245/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 07-Oct-2020 16:03:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: mb  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 10:32:49 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc

Date: 09-Oct-2020 10:32:49

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
16 Acetone	43	3.751	3.733	0.018	93	3968		4.02	
S 2 Xylenes, Total	100				0			0.1188	
23 Methylene Chloride	84	4.519	4.538	-0.019	55	2011		-2.01	M
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	41760	200.0	200.0	
34 Hexane	57	5.641	5.635	0.006	68	3862		-0.9084	7M
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.738	-0.006	66	16820	10.0	9.42	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	22778	10.0	9.37	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	97	67080	10.0	10.0	
\$ 64 Trifluorotoluene (Surr)	146	9.384	9.372	0.012	6	675		NC	
68 4-Methyl-2-pentanone (MIBK)	58	10.165	10.171	-0.006	27	481		0.5492	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	95	66987	10.0	10.2	
74 Toluene	91	10.341	10.341	0.000	31	955		0.1176	
76 2-Hexanone	58	10.939	10.933	0.006	52	1731		2.02	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	89	52366	10.0	10.0	
84 m-Xylene & p-Xylene	91	11.798	11.792	0.006	0	876		0.1188	M
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	84	18397	10.0	9.72	
99 1,2,4-Trimethylbenzene	105	13.195	13.194	0.000	1	311		0.0483	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	97	21121	10.0	10.0	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	1	121		0.0177	
112 Naphthalene	128	15.249	15.249	0.000	2	1394		0.2510	a
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	1	391		0.1864	
\$ 118 BFB	95	12.560	12.560	0.000	84	23537	NR	NR	

## QC Flag Legend

## Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_007.D

Injection Date: 07-Oct-2020 16:03:30

Instrument ID: TAC119

Lims ID: MB 580-340245/1-A

Client ID:

Operator ID: jsm

ALS Bottle#: 7

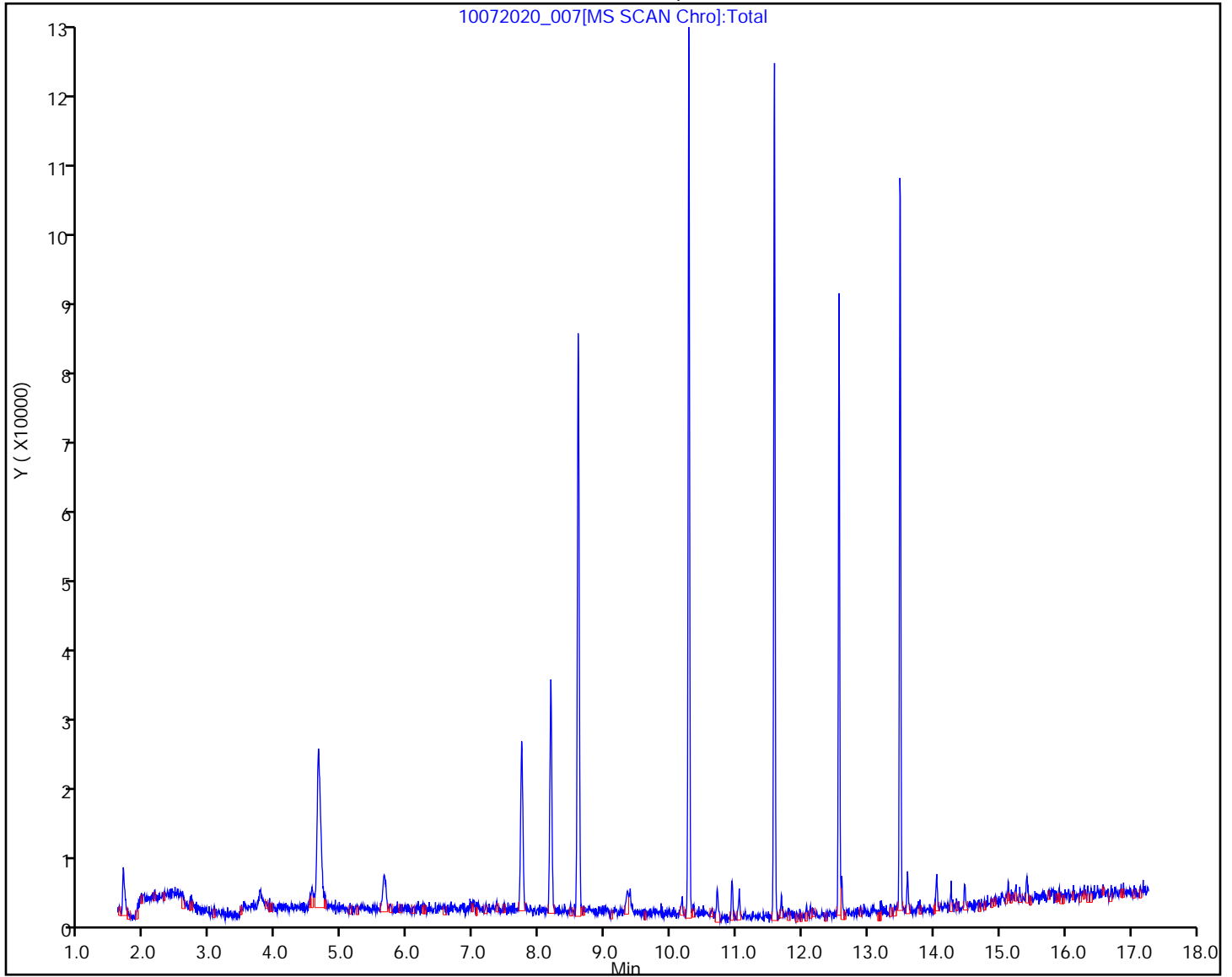
Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_007.D  
 Lims ID: MB 580-340245/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 07-Oct-2020 16:03:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: mb  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 10:32:49 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc

Date: 09-Oct-2020 10:32:49

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	9.42	94.24
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	9.37	93.69
\$ 64 Trifluorotoluene (Surr)	0	0	0.00
\$ 72 Toluene-d8 (Surr)	10.0	10.2	101.75
\$ 92 4-Bromofluorobenzene (Surr)	10.0	9.72	97.22
\$ 118 BFB	10.0	0	0.00

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_007.D

Injection Date: 07-Oct-2020 16:03:30

Instrument ID: TAC119

Lims ID: MB 580-340245/1-A

Client ID:

Operator ID: jsm

ALS Bottle#: 7

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

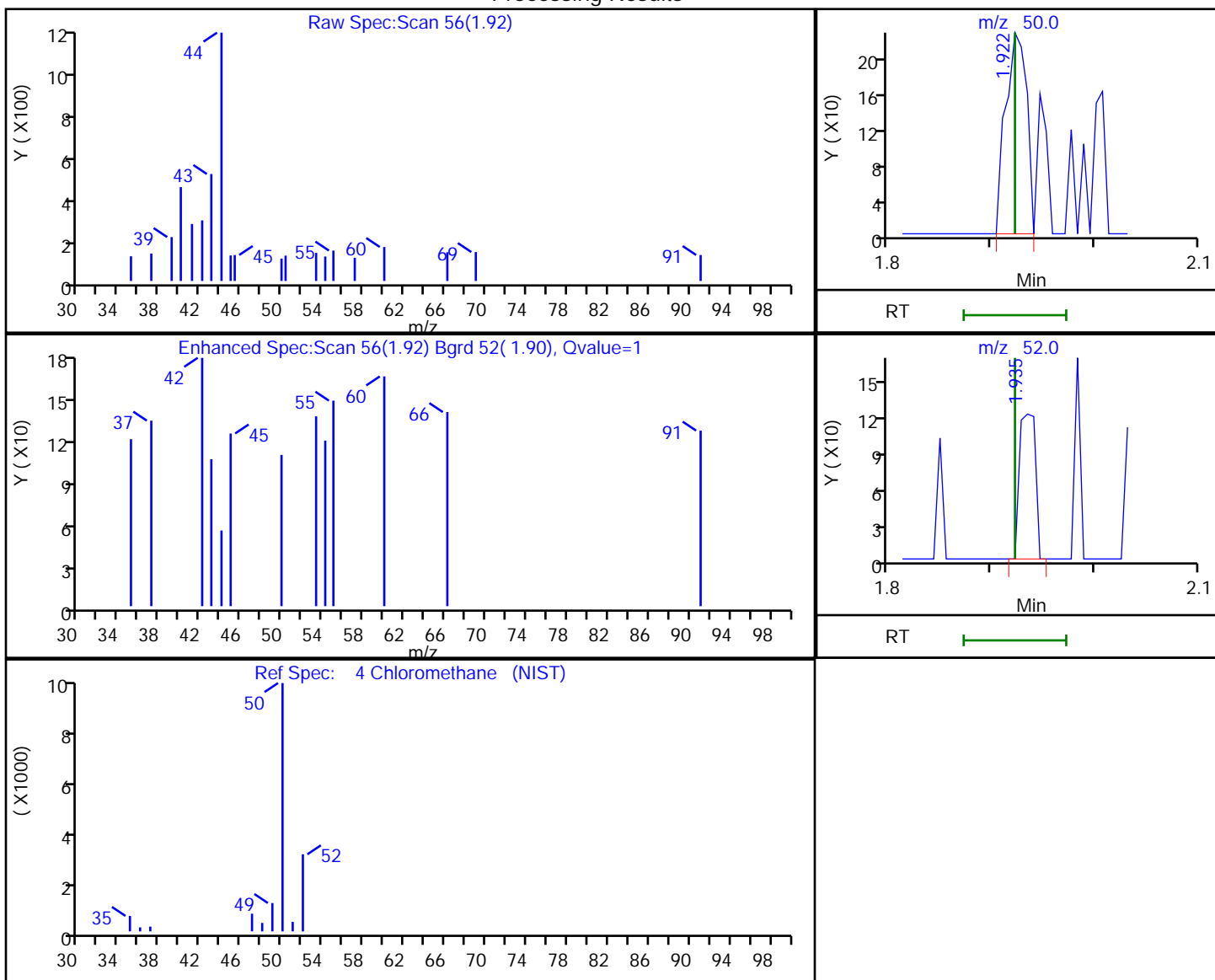
Limit Group: 8260C

Column:

Detector: MS SCAN

### 4 Chloromethane, CAS: 74-87-3

#### Processing Results



RT	Mass	Response	Amount
1.92	50.00	322	0.110140
1.93	52.00	130	

Reviewer: jantanuc, 09-Oct-2020 10:30:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

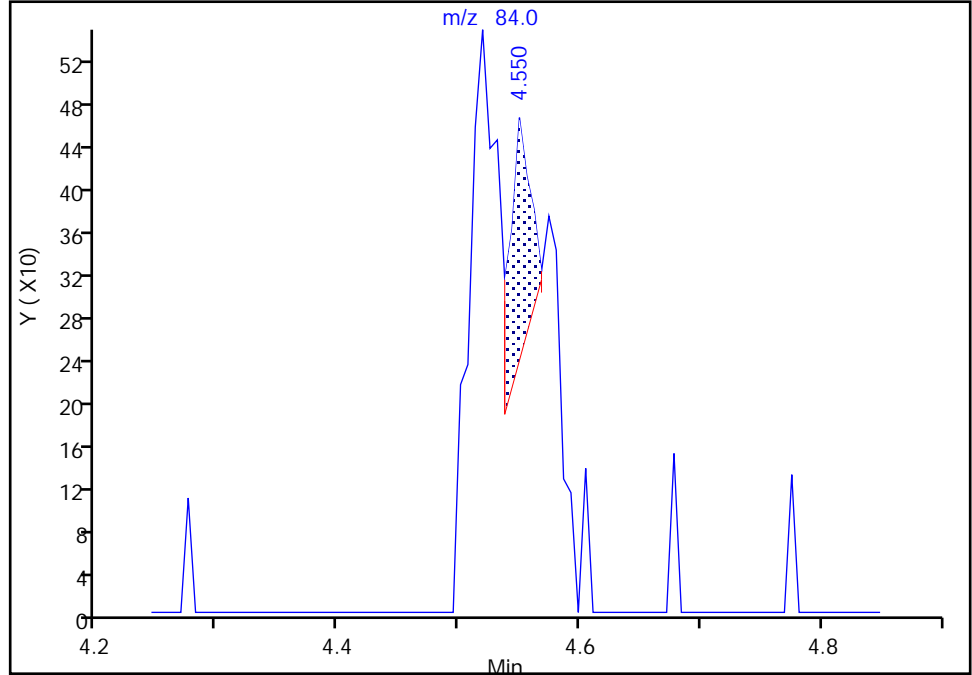
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_007.D  
Injection Date: 07-Oct-2020 16:03:30 Instrument ID: TAC119  
Lims ID: MB 580-340245/1-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

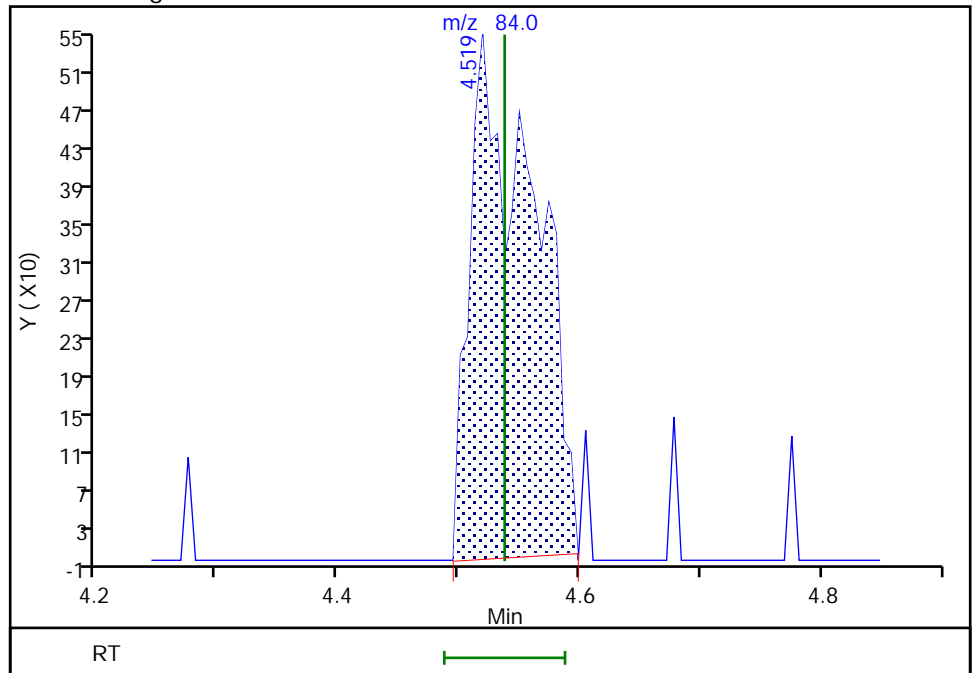
RT: 4.55  
Area: 276  
Amount: -3.361688  
Amount Units: ug/L

Processing Integration Results



RT: 4.52  
Area: 2011  
Amount: -2.011523  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:30:54  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_007.D

Injection Date: 07-Oct-2020 16:03:30

Instrument ID: TAC119

Lims ID: MB 580-340245/1-A

Client ID:

Operator ID: jsm

ALS Bottle#: 7

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

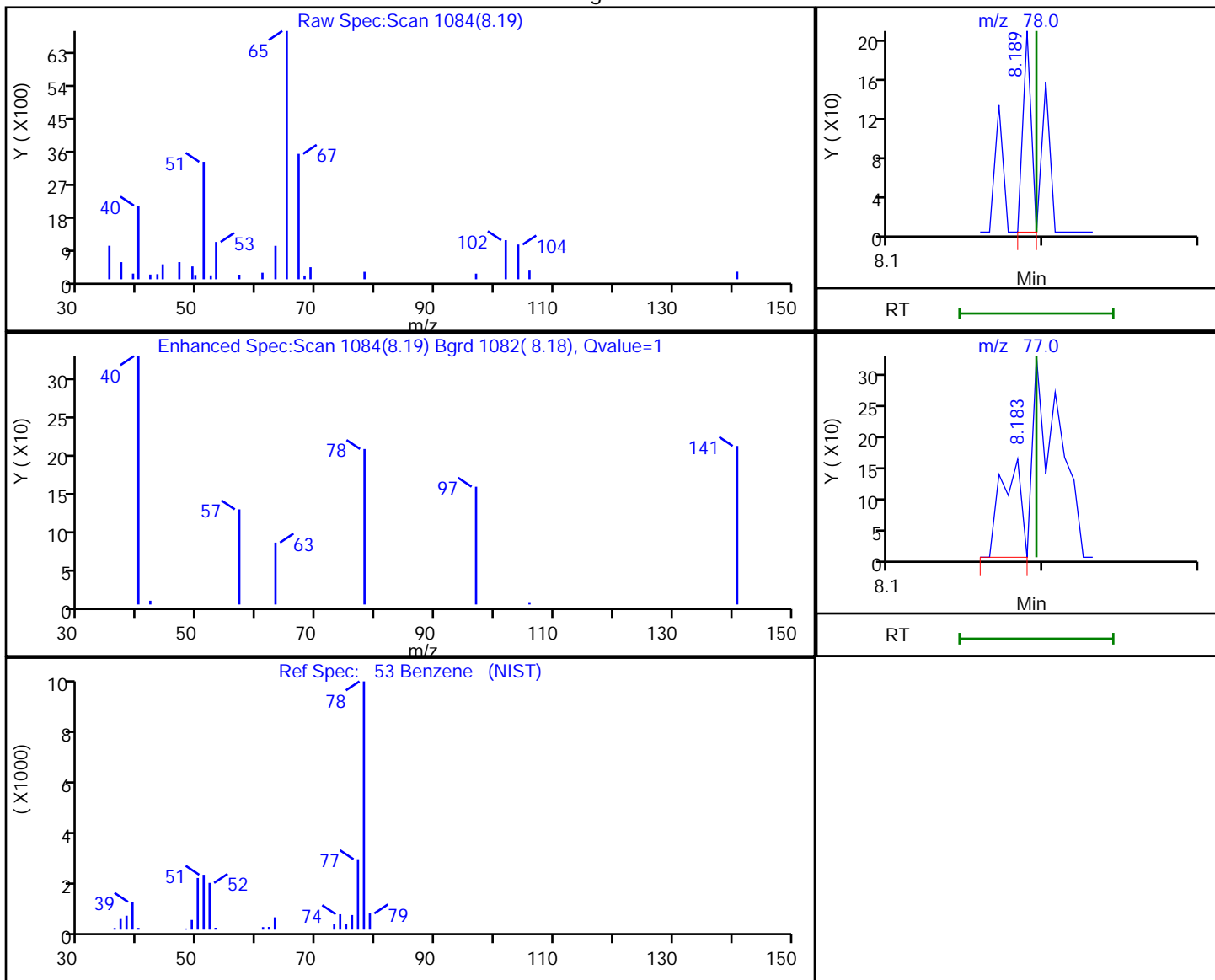
Limit Group: 8260C

Column:

Detector: MS SCAN

### 53 Benzene, CAS: 71-43-2

#### Processing Results



RT	Mass	Response	Amount
8.19	78.00	75	0.010586
8.18	77.00	145	

Reviewer: jantanuc, 09-Oct-2020 10:31:19

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_007.D

Injection Date: 07-Oct-2020 16:03:30

Instrument ID: TAC119

Lims ID: MB 580-340245/1-A

Client ID:

Operator ID: jsm

ALS Bottle#: 7

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

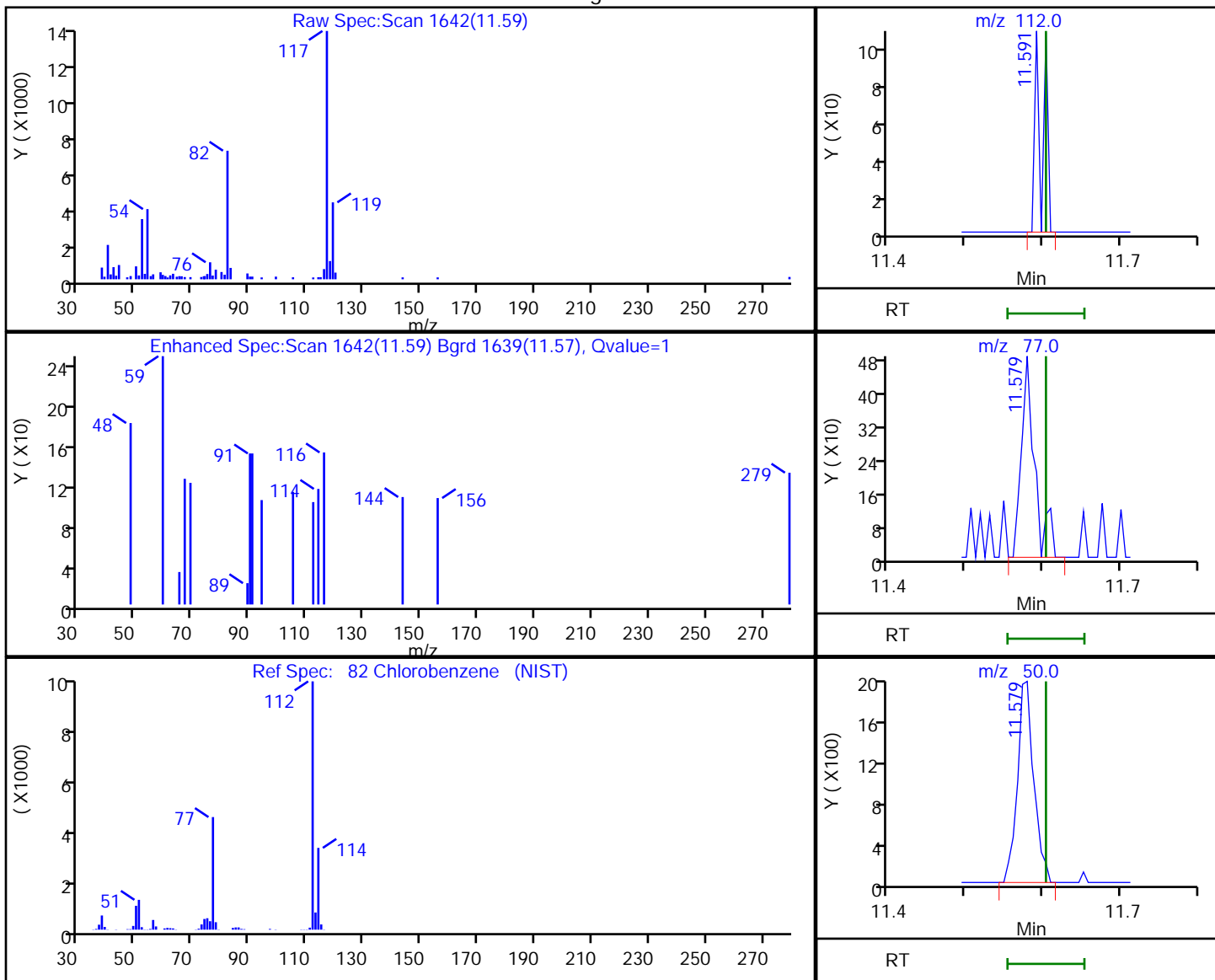
Limit Group: 8260C

Column:

Detector: MS SCAN

82 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
11.59	112.00	74	0.014596
11.58	77.00	591	
11.58	50.00	2821	

Reviewer: jantanuc, 09-Oct-2020 10:31:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Seattle

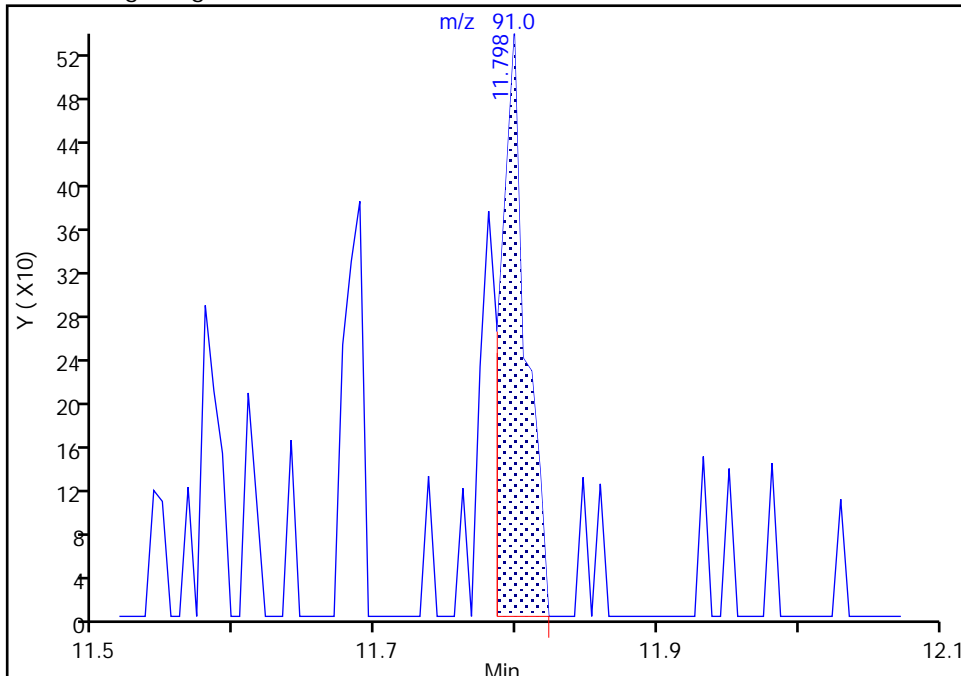
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_007.D  
Injection Date: 07-Oct-2020 16:03:30 Instrument ID: TAC119  
Lims ID: MB 580-340245/1-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

84 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

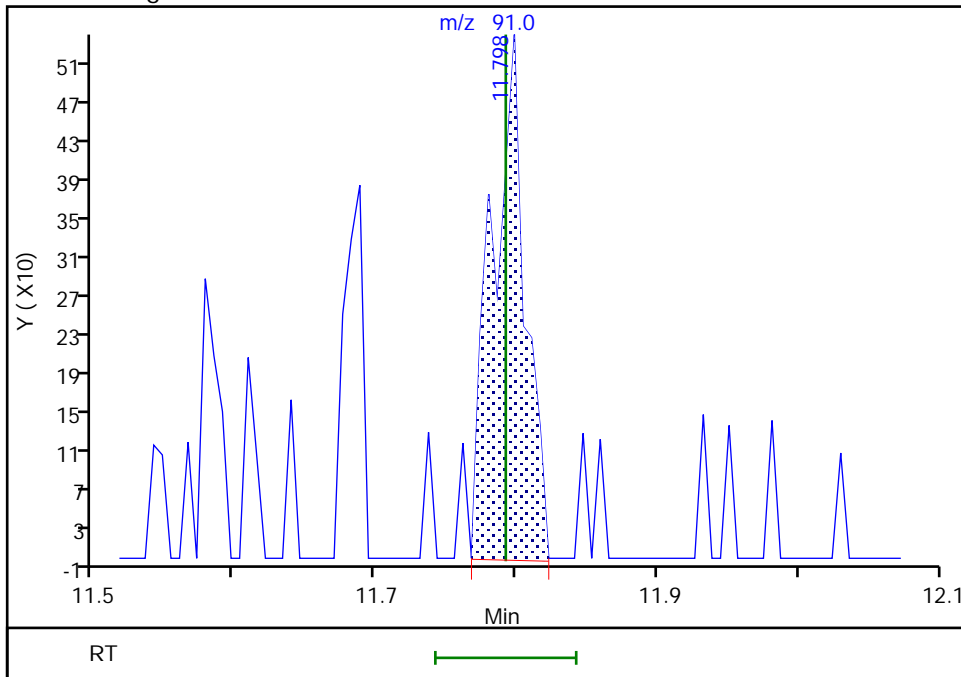
RT: 11.80  
Area: 650  
Amount: 0.088154  
Amount Units: ug/L

Processing Integration Results



RT: 11.80  
Area: 876  
Amount: 0.118805  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:32:00  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

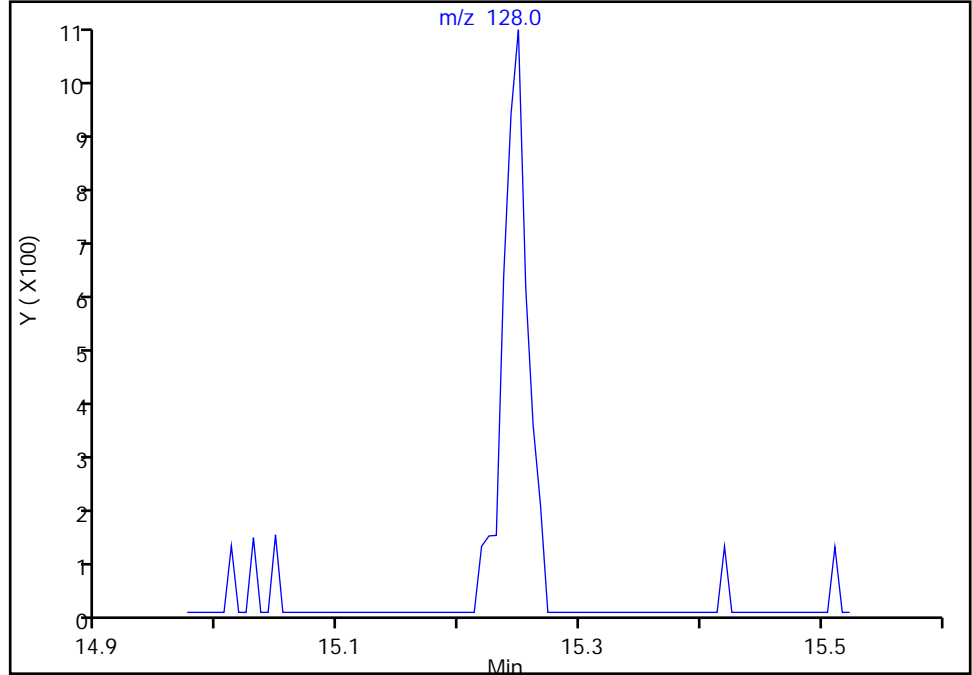
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_007.D  
Injection Date: 07-Oct-2020 16:03:30 Instrument ID: TAC119  
Lims ID: MB 580-340245/1-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

112 Naphthalene, CAS: 91-20-3

Signal: 1

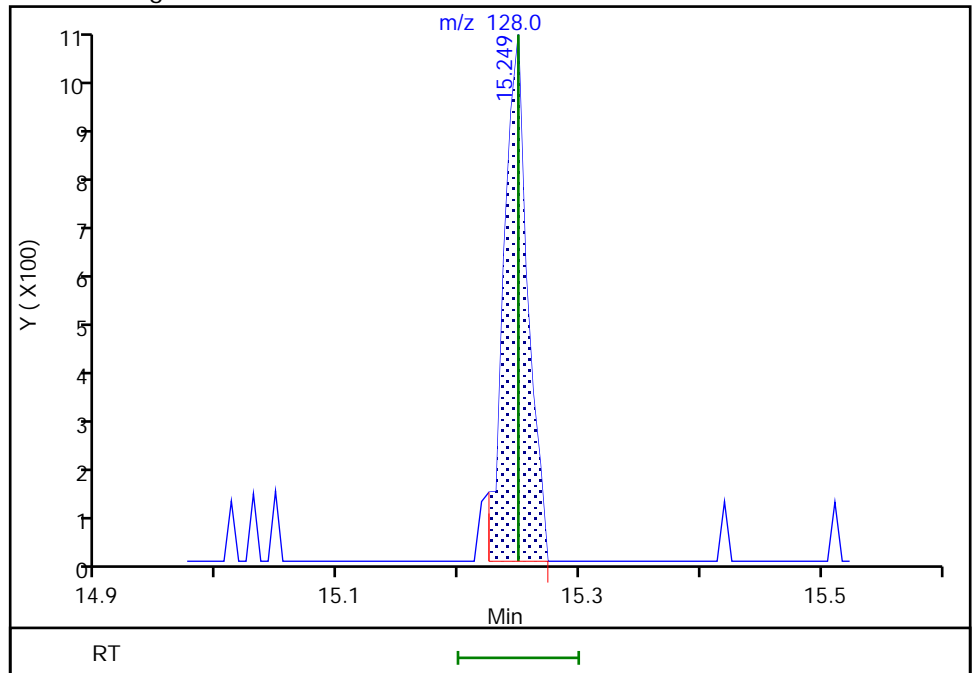
Not Detected  
Expected RT: 15.25

Processing Integration Results



Manual Integration Results

RT: 15.25  
Area: 1394  
Amount: 0.251030  
Amount Units: ug/L



Reviewer: jantanuc, 09-Oct-2020 10:32:34  
Audit Action: Assigned Compound ID

Audit Reason: Baseline

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-340822/1-A  
 Matrix: Solid Lab File ID: 10142020\_007.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 10/14/2020 17:48  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 340807 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-63-6	1,2,4-Trimethylbenzene	ND		5.0	
135-98-8	sec-Butylbenzene	ND		3.0	
99-87-6	4-Isopropyltoluene	ND		2.0	
104-51-8	n-Butylbenzene	ND		3.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		80-121
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_007.D  
 Lims ID: MB 580-340822/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 14-Oct-2020 17:48:30 ALS Bottle#: 7 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: mb  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Oct-2020 11:11:01 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1625

First Level Reviewer: limwirojt

Date: 15-Oct-2020 11:11:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
23 Methylene Chloride	84	4.544	4.531	0.013	77	7477		2.02	M
* 18 TBA-d9 (IS)	65	4.653	4.647	0.006	0	44880	200.0	200.0	M
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.738	-0.006	71	17248	10.0	9.29	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.171	8.177	-0.006	0	22526	10.0	8.91	
* 55 Fluorobenzene (IS)	96	8.598	8.592	0.006	98	69752	10.0	10.0	
\$ 64 Trifluorotoluene (Surr)	146	9.384	9.384	0.000	0	637		NC	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	68908	10.0	10.2	
74 Toluene	91	10.341	10.341	0.000	68	2504		0.3015	
76 2-Hexanone	58	10.933	10.933	0.000	72	887		1.01	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	87	53574	10.0	10.0	
86 Styrene	104	12.128	12.128	0.000	1	714		0.1421	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	85	18948	10.0	9.79	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	97	21125	10.0	10.0	
111 1,2,4-Trichlorobenzene	180	15.029	15.036	-0.007	1	269		0.1320	
112 Naphthalene	128	15.249	15.249	0.000	37	2023		0.3642	
114 1,2,3-Trichlorobenzene	180	15.426	15.420	0.006	1	334		0.1592	
\$ 118 BFB	95	12.560	12.560	0.000	85	23751	NR	NR	

## QC Flag Legend

## Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

## Review Flags

M - Manually Integrated

## Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_007.D

Injection Date: 14-Oct-2020 17:48:30

Instrument ID: TAC119

Lims ID: MB 580-340822/1-A

Client ID:

Operator ID: cjb

ALS Bottle#: 7

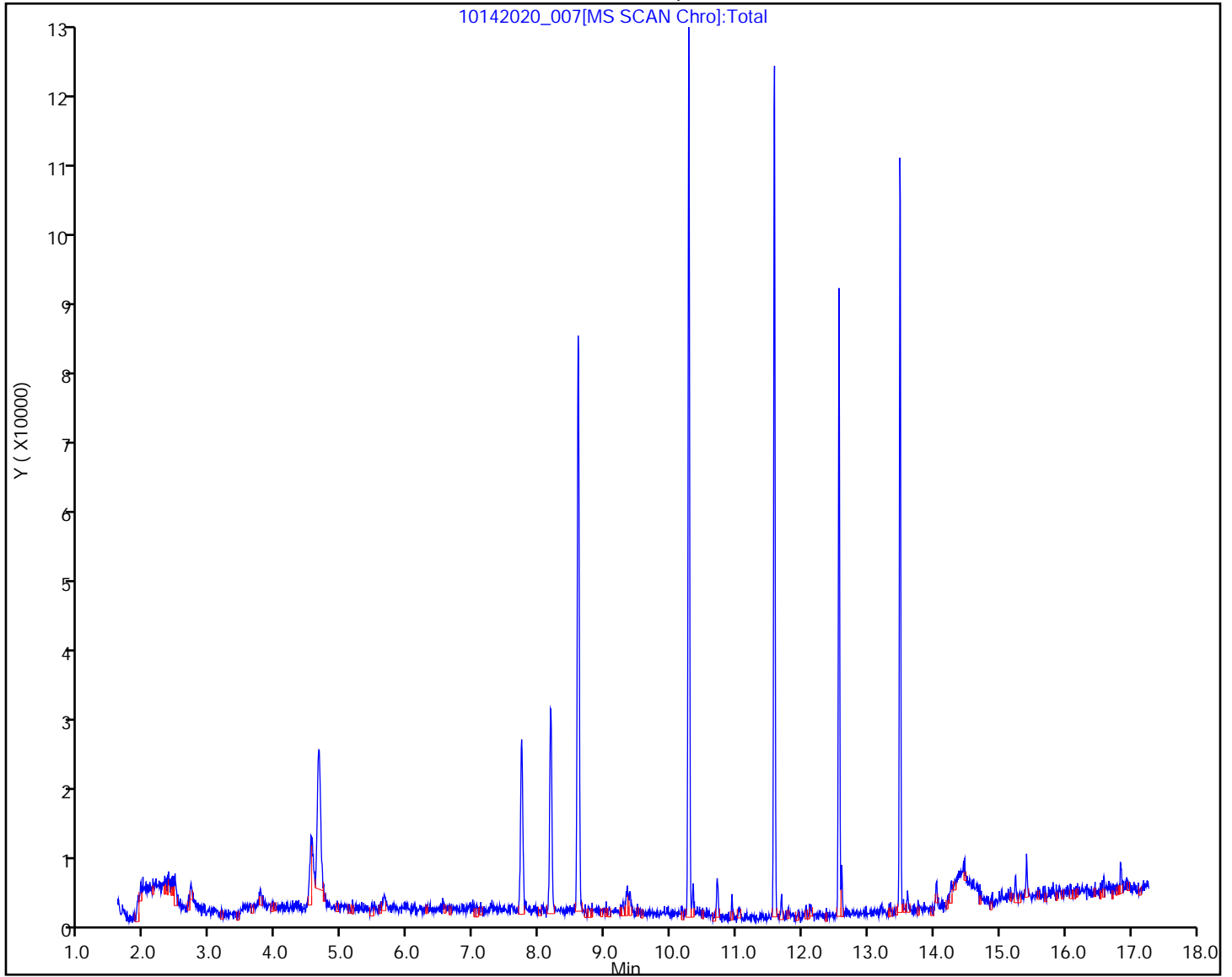
Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_007.D  
 Lims ID: MB 580-340822/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 14-Oct-2020 17:48:30 ALS Bottle#: 7 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: mb  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Oct-2020 11:11:01 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1625

First Level Reviewer: limwirojt

Date: 15-Oct-2020 11:11:01

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	9.29	92.93
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	8.91	89.10
\$ 64 Trifluorotoluene (Surr)	0	0	0.00
\$ 72 Toluene-d8 (Surr)	10.0	10.2	102.31
\$ 92 4-Bromofluorobenzene (Surr)	10.0	9.79	97.88
\$ 118 BFB	10.0	0	0.00

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-340245/2-A  
 Matrix: Solid Lab File ID: 10072020\_004.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 10/07/2020 14:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	11.8		2.0	
74-87-3	Chloromethane	13.8		5.0	
75-01-4	Vinyl chloride	15.1		2.0	
74-83-9	Bromomethane	17.3		1.0	
75-00-3	Chloroethane	21.4		10	
75-69-4	Trichlorofluoromethane	17.1		2.0	
75-35-4	1,1-Dichloroethene	18.2		5.0	
75-09-2	Methylene Chloride	20.5	J	40	
1634-04-4	Methyl tert-butyl ether	20.9		2.0	
156-60-5	trans-1,2-Dichloroethene	17.1		2.0	
75-34-3	1,1-Dichloroethane	18.4		1.0	
594-20-7	2,2-Dichloropropane	18.7		5.0	
156-59-2	cis-1,2-Dichloroethene	20.7		3.0	
74-97-5	Chlorobromomethane	20.4		2.0	
67-66-3	Chloroform	18.9		2.0	
71-55-6	1,1,1-Trichloroethane	18.5		2.0	
56-23-5	Carbon tetrachloride	18.7		2.0	
563-58-6	1,1-Dichloropropene	18.4		2.0	
71-43-2	Benzene	20.1		2.0	
107-06-2	1,2-Dichloroethane	19.1		1.0	
79-01-6	Trichloroethene	18.9		2.0	
78-87-5	1,2-Dichloropropane	20.5		2.0	
74-95-3	Dibromomethane	22.1		1.0	
75-27-4	Dichlorobromomethane	19.6		1.0	
10061-01-5	cis-1,3-Dichloropropene	20.1		1.0	
108-88-3	Toluene	19.4		10	
10061-02-6	trans-1,3-Dichloropropene	19.9		10	
79-00-5	1,1,2-Trichloroethane	21.4		2.0	
127-18-4	Tetrachloroethene	19.4		2.0	
142-28-9	1,3-Dichloropropane	21.1		2.0	
124-48-1	Chlorodibromomethane	19.7		1.5	
106-93-4	Ethylene Dibromide	21.6		1.0	
108-90-7	Chlorobenzene	20.3		2.0	
630-20-6	1,1,1,2-Tetrachloroethane	18.8		3.0	
100-41-4	Ethylbenzene	20.5		2.0	
179601-23-1	m-Xylene & p-Xylene	17.8		10	



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-340245/2-A  
 Matrix: Solid Lab File ID: 10072020\_004.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 10/07/2020 14:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	20.0		5.0	
100-42-5	Styrene	20.2		3.0	
75-25-2	Bromoform	18.6		5.0	
98-82-8	Isopropylbenzene	18.9		2.0	
108-86-1	Bromobenzene	20.3		10	
79-34-5	1,1,2,2-Tetrachloroethane	23.4		4.0	
96-18-4	1,2,3-Trichloropropane	20.2		5.0	
103-65-1	N-Propylbenzene	19.7		5.0	
95-49-8	2-Chlorotoluene	20.1		5.0	
106-43-4	4-Chlorotoluene	19.4		5.0	
98-06-6	tert-Butylbenzene	18.0		3.0	
95-63-6	1,2,4-Trimethylbenzene	19.2		5.0	
135-98-8	sec-Butylbenzene	18.8		3.0	
99-87-6	4-Isopropyltoluene	18.7		2.0	
541-73-1	1,3-Dichlorobenzene	20.1		5.0	
106-46-7	1,4-Dichlorobenzene	20.0		5.0	
104-51-8	n-Butylbenzene	18.1		3.0	
95-50-1	1,2-Dichlorobenzene	20.5		10	
96-12-8	1,2-Dibromo-3-Chloropropane	20.7		10	
120-82-1	1,2,4-Trichlorobenzene	18.9		2.0	
87-68-3	Hexachlorobutadiene	15.4		3.0	
91-20-3	Naphthalene	20.5		10	
87-61-6	1,2,3-Trichlorobenzene	18.9		3.0	
108-67-8	1,3,5-Trimethylbenzene	19.2		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		80-121
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_004.D  
 Lims ID: LCS 580-340245/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 07-Oct-2020 14:45:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: lcs  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 10:05:35 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc

Date: 09-Oct-2020 10:05:35

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.703	1.709	-0.006	74	10934	20.0	11.8	
4 Chloromethane	50	1.928	1.922	0.006	82	44628	20.0	13.8	
5 Vinyl chloride	62	2.050	2.050	0.000	78	28754	20.0	15.1	M
6 Butadiene	54	2.111	2.111	0.000	92	21300	20.0	10.6	M
7 Bromomethane	94	2.471	2.471	0.000	86	15794	20.0	17.3	M
8 Chloroethane	66	2.605	2.593	0.012	94	6400	20.0	21.4	M
10 Dichlorofluoromethane	67	2.910	2.916	-0.006	78	54252	20.0	22.4	
14 Trichlorofluoromethane	101	2.940	2.953	-0.013	81	42107	20.0	17.1	M
11 3-Chloro-1-propene	76	2.958	2.959	-0.001	55	1103	20.0	18.7	
17 Ethyl ether	59	3.324	3.331	-0.007	97	37733	20.0	17.5	
12 Acrolein	56	3.513	3.513	0.000	95	59747	120.0	121.1	
19 1,1-Dichloroethene	96	3.702	3.702	0.000	82	21841	20.0	18.2	M
16 Acetone	43	3.739	3.733	0.006	96	100099	100.0	91.9	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.751	3.739	0.012	47	20966	20.0	18.1	M
22 Iodomethane	142	3.903	3.898	0.005	95	36206	20.0	16.5	
26 Carbon disulfide	76	4.013	4.019	-0.006	97	79003	20.0	17.4	M
15 Isopropyl alcohol	45	4.044	4.038	0.006	97	40287	200.0	169.4	M
S 2 Xylenes, Total	100				0		40.0	37.8	
13 Acetonitrile	40	4.208	4.208	0.000	99	30118	250.0	219.2	
24 Methyl acetate	43	4.300	4.300	0.000	99	76728	40.0	35.5	
23 Methylene Chloride	84	4.544	4.538	0.006	93	34068	20.0	20.5	M
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	46464	200.0	200.0	M
20 2-Methyl-2-propanol	59	4.812	4.812	0.000	96	66984	200.0	210.0	
21 Acrylonitrile	53	4.970	4.977	-0.007	97	180899	200.0	191.0	
27 trans-1,2-Dichloroethene	96	5.062	5.062	0.000	63	31702	20.0	17.1	
28 Methyl tert-butyl ether	73	5.080	5.074	0.006	84	112845	20.0	20.9	M
34 Hexane	57	5.641	5.635	0.006	92	66742	20.0	13.7	
30 1,1-Dichloroethane	63	5.903	5.903	0.000	83	80123	20.0	18.4	
31 Vinyl acetate	86	5.976	5.976	0.000	97	21555	50.0	51.7	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	63	90026	20.0	16.6	
35 Isopropyl ether	45	6.049	6.056	-0.007	93	247315	25.0	23.1	
41 Tert-butyl ethyl ether	87	6.702	6.696	0.006	97	60478	25.0	24.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.909	6.909	0.000	66	54370	20.0	18.7	M
33 2-Butanone (MEK)	72	6.927	6.927	0.000	97	25675	100.0	113.7	
37 cis-1,2-Dichloroethene	96	6.921	6.927	-0.006	70	43246	20.0	20.7	
29 Propionitrile	54	7.006	7.007	-0.001	75	92586	250.0	255.2	
38 Ethyl acetate	43	7.049	7.055	-0.006	99	118891	40.0	39.1	
36 Methacrylonitrile	67	7.263	7.257	0.006	97	175870	200.0	224.1	
39 Chlorobromomethane	130	7.299	7.305	-0.006	64	25253	20.0	20.4	
40 Chloroform	83	7.506	7.507	-0.001	82	70486	20.0	18.9	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	89	57952	20.0	18.5	
\$ 44 Dibromofluoromethane (Surr)	113	7.738	7.738	0.000	70	19097	10.0	9.70	
51 Cyclohexane	84	7.799	7.799	0.000	94	47342	20.0	17.7	
52 Carbon tetrachloride	117	7.927	7.927	0.000	77	52656	20.0	18.7	
50 1,1-Dichloropropene	75	7.945	7.946	-0.001	82	52481	20.0	18.4	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	25428	10.0	9.48	
53 Benzene	78	8.195	8.195	0.000	93	157179	20.0	20.1	
42 Isobutyl alcohol	43	8.201	8.202	-0.001	67	75580	500.0	428.0	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	88	70064	20.0	19.1	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	91	142091	25.0	24.8	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	96	74000	10.0	10.0	
45 Tetrahydrofuran	42	8.634	8.634	0.000	34	19760	40.0	27.0	
56 n-Heptane	43	8.634	8.634	0.000	93	72354	20.0	12.8	
61 Trichloroethene	132	9.024	9.025	-0.001	87	40451	20.0	18.9	
57 Ethyl acrylate	55	9.152	9.153	-0.001	97	74281	20.0	18.2	
66 Methylcyclohexane	83	9.262	9.262	0.000	96	60520	20.0	17.3	
49 n-Butanol	56	9.262	9.268	-0.006	45	22151	500.0	388.4	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	84	51515	20.0	20.5	a
59 Dibromomethane	174	9.390	9.390	0.000	38	24405	20.0	22.1	
63 Methyl methacrylate	69	9.396	9.396	0.000	87	59688	40.0	45.5	
62 Dichlorobromomethane	83	9.591	9.592	-0.001	95	57311	20.0	19.6	
58 2-Nitropropane	43	9.805	9.799	0.006	97	42142	40.0	30.8	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	90	13318	20.0	11.4	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	79	73168	20.0	20.1	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	-0.001	99	102465	100.0	99.1	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	74921	10.0	9.64	
74 Toluene	91	10.341	10.341	0.000	94	185459	20.0	19.4	
70 n-Butyl acetate	43	10.475	10.475	0.000	85	10390	20.0	16.4	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	90	66100	20.0	19.9	
73 Ethyl methacrylate	69	10.622	10.622	0.000	92	51626	20.0	20.7	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	87	36501	20.0	21.4	
79 Tetrachloroethene	164	10.817	10.817	0.000	87	34774	20.0	19.4	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	94	64680	20.0	21.1	
76 2-Hexanone	58	10.933	10.933	0.000	96	99632	100.0	98.3	
77 Chlorodibromomethane	129	11.079	11.079	0.000	88	44123	20.0	19.7	
78 Ethylene Dibromide	107	11.170	11.170	0.000	97	36572	20.0	21.6	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	86	61793	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	90	121351	20.0	20.3	
80 1,1,1,2-Tetrachloroethane	131	11.682	11.683	-0.001	46	42991	20.0	18.8	
83 Ethylbenzene	91	11.682	11.683	-0.001	98	199485	20.0	20.5	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	155196	20.0	17.8	
88 o-Xylene	91	12.115	12.115	0.000	96	158707	20.0	20.0	
86 Styrene	104	12.127	12.134	-0.007	89	116995	20.0	20.2	
85 Bromoform	173	12.286	12.286	0.000	94	24907	20.0	18.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
91 Isopropylbenzene	105	12.414	12.414	0.000	97	186335	20.0	18.9	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	84	21351	10.0	9.56	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	95	45257	20.0	23.4	
93 Bromobenzene	156	12.682	12.682	0.000	94	45120	20.0	20.3	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	52	18856	20.0	18.5	
90 1,2,3-Trichloropropane	110	12.707	12.707	0.000	41	12743	20.0	20.2	
94 N-Propylbenzene	91	12.749	12.749	0.000	88	216900	20.0	19.7	
95 2-Chlorotoluene	126	12.835	12.835	0.000	96	44512	20.0	20.1	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	86	153107	20.0	19.2	
96 4-Chlorotoluene	126	12.926	12.926	0.000	81	44784	20.0	19.4	
98 tert-Butylbenzene	119	13.152	13.152	0.000	94	131687	20.0	18.0	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	68	152462	20.0	19.2	
100 sec-Butylbenzene	105	13.322	13.323	0.000	95	193830	20.0	18.8	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	95	81048	20.0	20.1	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	97	159913	20.0	18.7	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	67	26052	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	92	80899	20.0	20.0	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	98	158841	20.0	18.8	
101 Benzyl chloride	126	13.597	13.591	0.006	99	17567	20.0	20.3	
108 n-Butylbenzene	134	13.761	13.761	0.000	98	38194	20.0	18.1	
107 1,2-Dichlorobenzene	146	13.798	13.798	0.000	91	79287	20.0	20.5	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.402	-0.001	73	8587	20.0	20.7	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	95	53161	20.0	17.9	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	93	47625	20.0	18.9	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	90	23742	20.0	15.4	
112 Naphthalene	128	15.249	15.249	0.000	97	140323	20.0	20.5	
114 1,2,3-Trichlorobenzene	180	15.419	15.420	-0.001	93	48855	20.0	18.9	
\$ 118 BFB	95	12.560	12.560	0.000	84	28054	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_004.D

Injection Date: 07-Oct-2020 14:45:30

Instrument ID: TAC119

Lims ID: LCS 580-340245/2-A

Client ID:

Operator ID: jsm

ALS Bottle#: 4

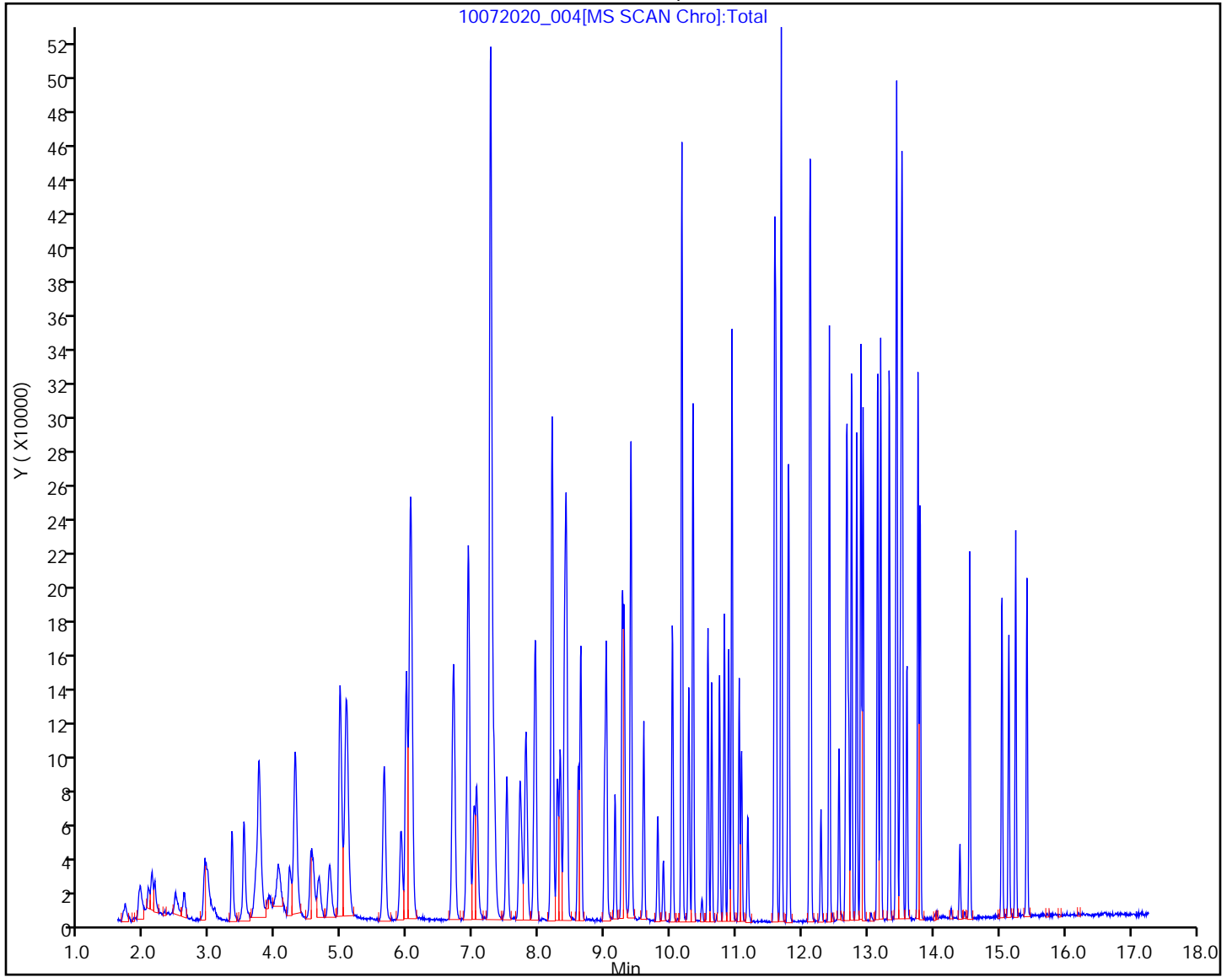
Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_004.D  
 Lims ID: LCS 580-340245/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 07-Oct-2020 14:45:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: lcs  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 10:05:35 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc

Date: 09-Oct-2020 10:05:35

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	9.70	96.99
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	9.48	94.81
\$ 72 Toluene-d8 (Surr)	10.0	9.64	96.44
\$ 92 4-Bromofluorobenzene (Surr)	10.0	9.56	95.62
\$ 118 BFB	10.0	0	0.00

Eurofins TestAmerica, Seattle

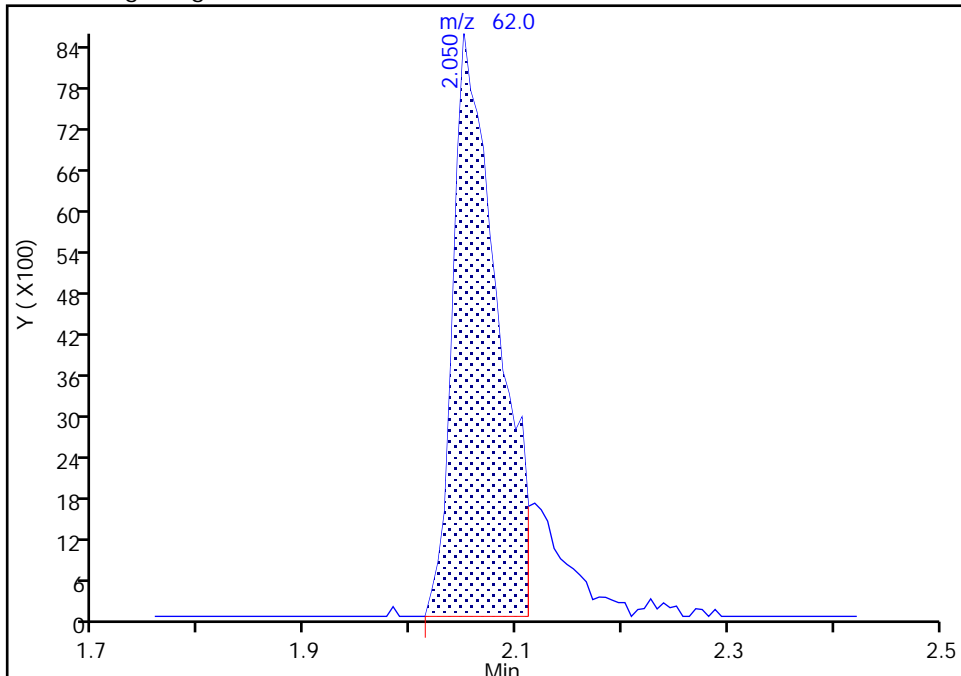
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Injection Date: 07-Oct-2020 14:45:30 Instrument ID: TAC119  
Lims ID: LCS 580-340245/2-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

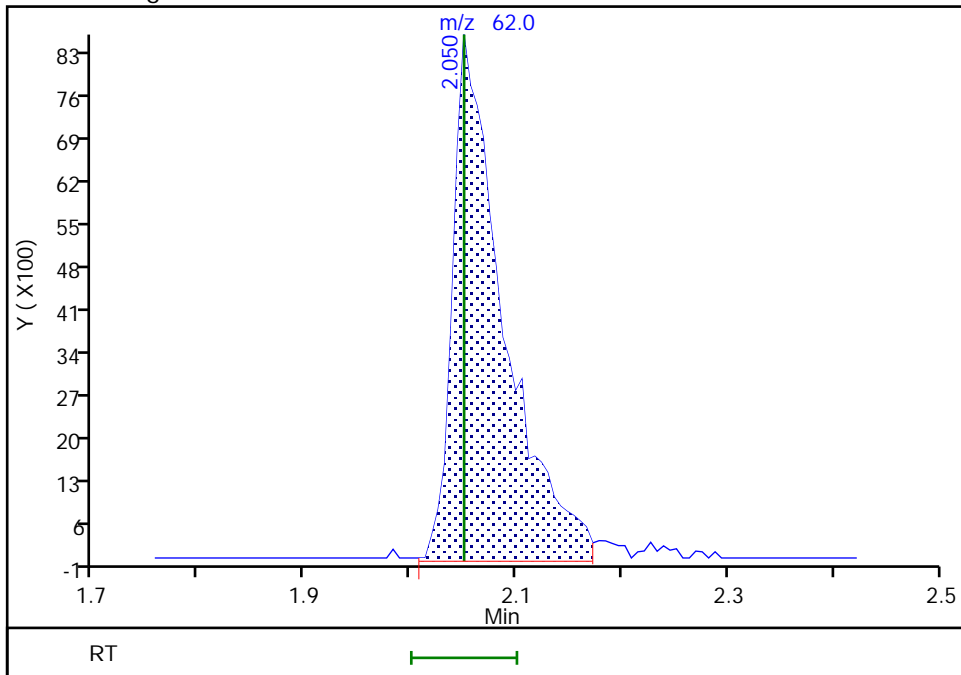
RT: 2.05  
Area: 24833  
Amount: 12.967685  
Amount Units: ug/L

Processing Integration Results



RT: 2.05  
Area: 28754  
Amount: 15.084135  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:55:21  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

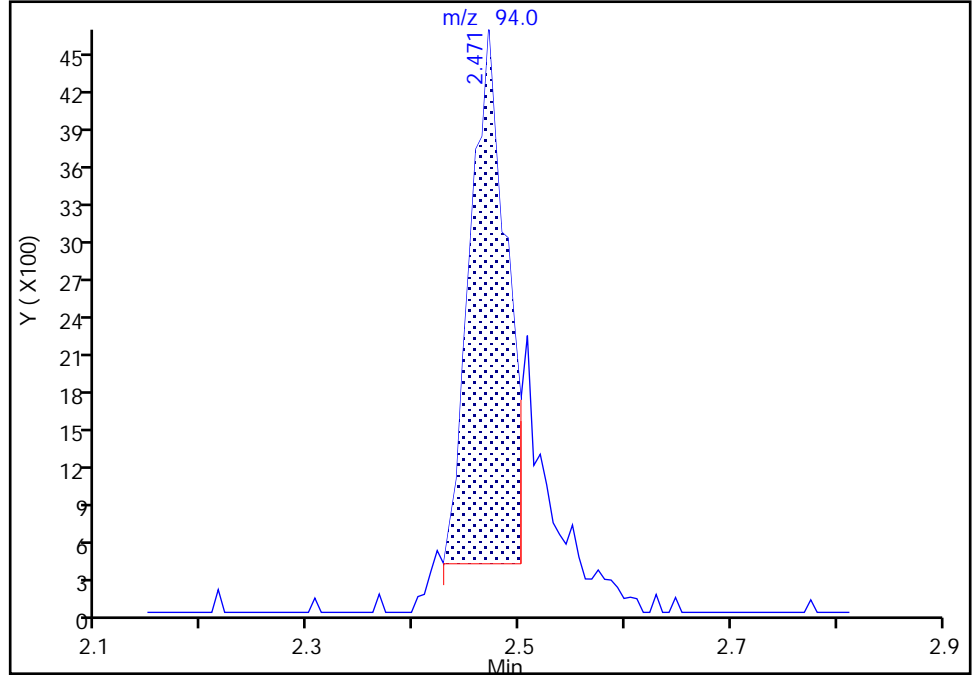
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Injection Date: 07-Oct-2020 14:45:30 Instrument ID: TAC119  
Lims ID: LCS 580-340245/2-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

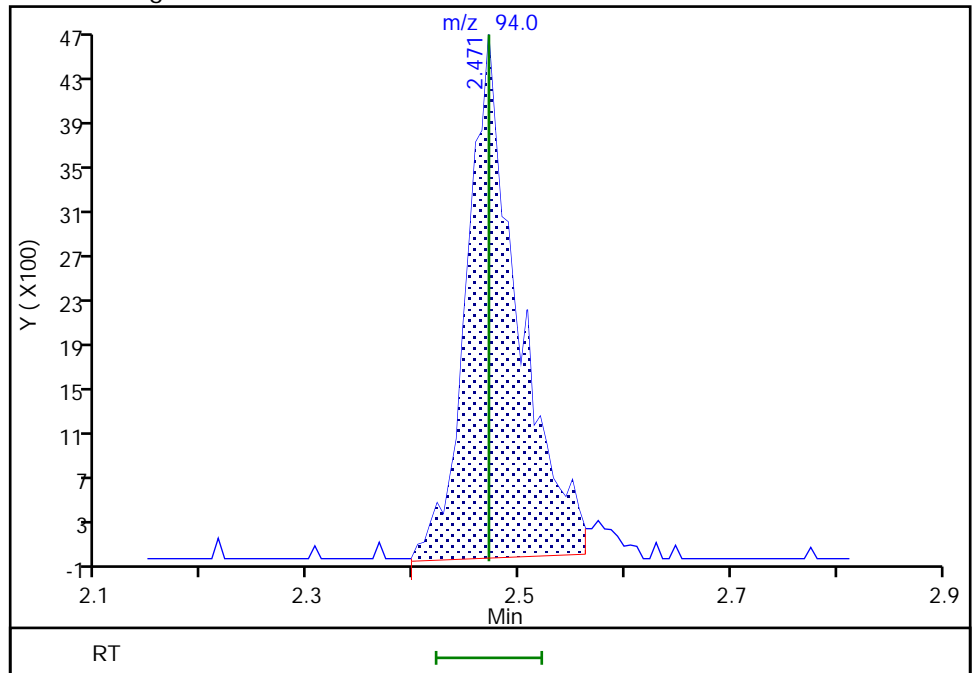
RT: 2.47  
Area: 10319  
Amount: 11.440700  
Amount Units: ug/L

Processing Integration Results



RT: 2.47  
Area: 15794  
Amount: 17.276595  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:55:32  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

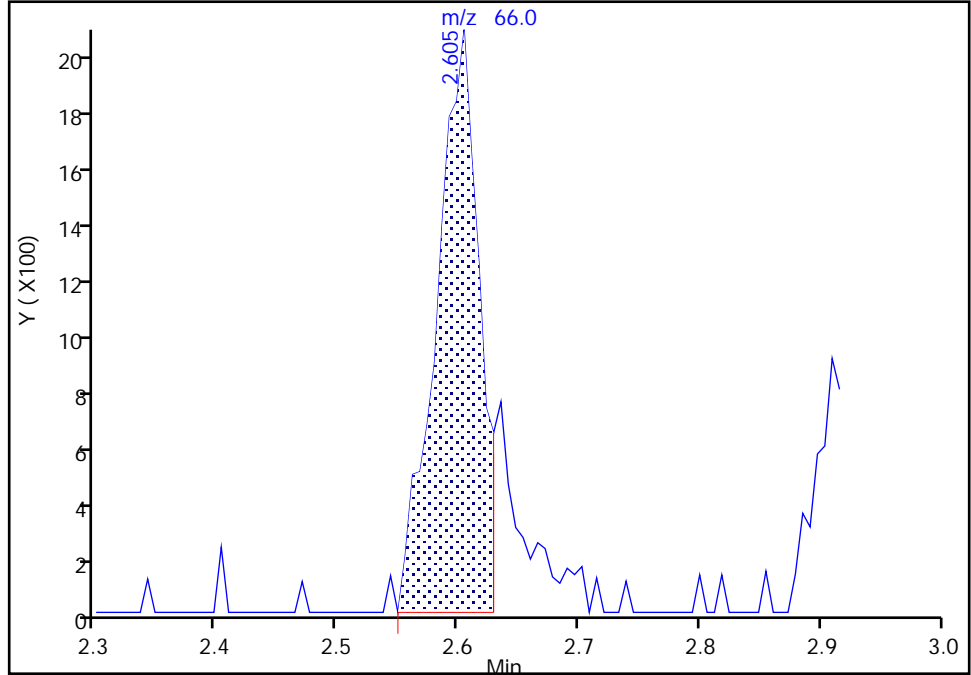
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Injection Date: 07-Oct-2020 14:45:30 Instrument ID: TAC119  
Lims ID: LCS 580-340245/2-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Signal: 1

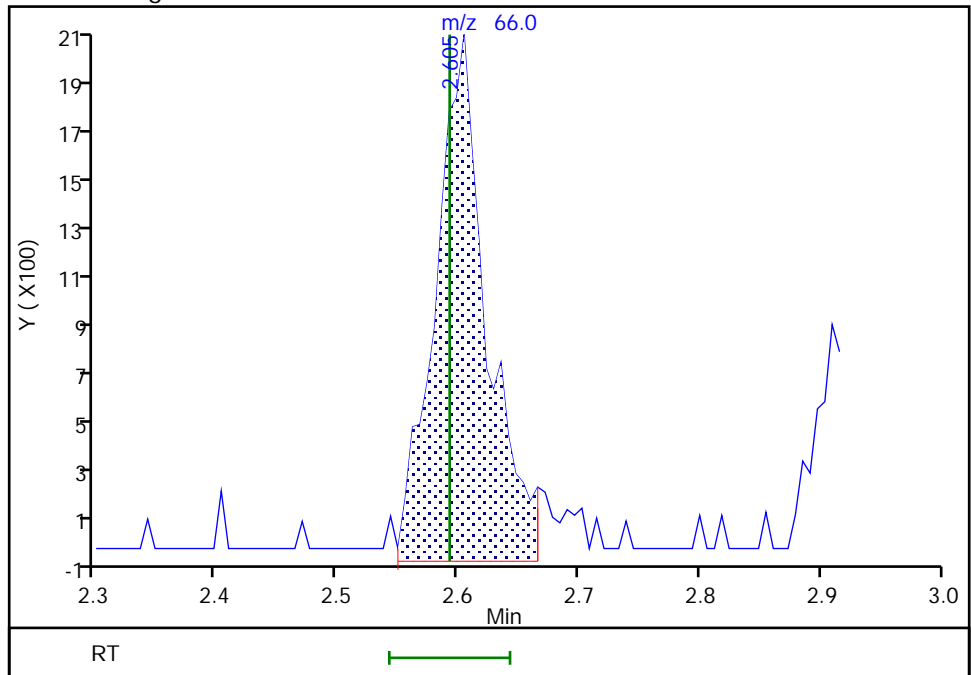
RT: 2.60  
Area: 5200  
Amount: 17.498643  
Amount Units: ug/L

Processing Integration Results



RT: 2.60  
Area: 6400  
Amount: 21.378778  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:55:36  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

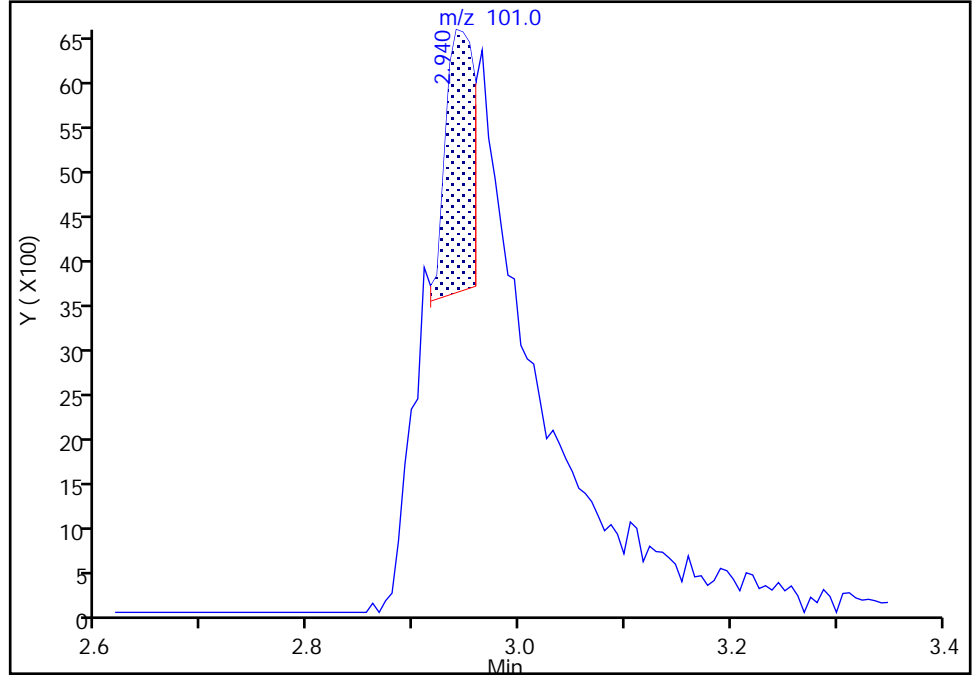
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_004.D  
Injection Date: 07-Oct-2020 14:45:30 Instrument ID: TAC119  
Lims ID: LCS 580-340245/2-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

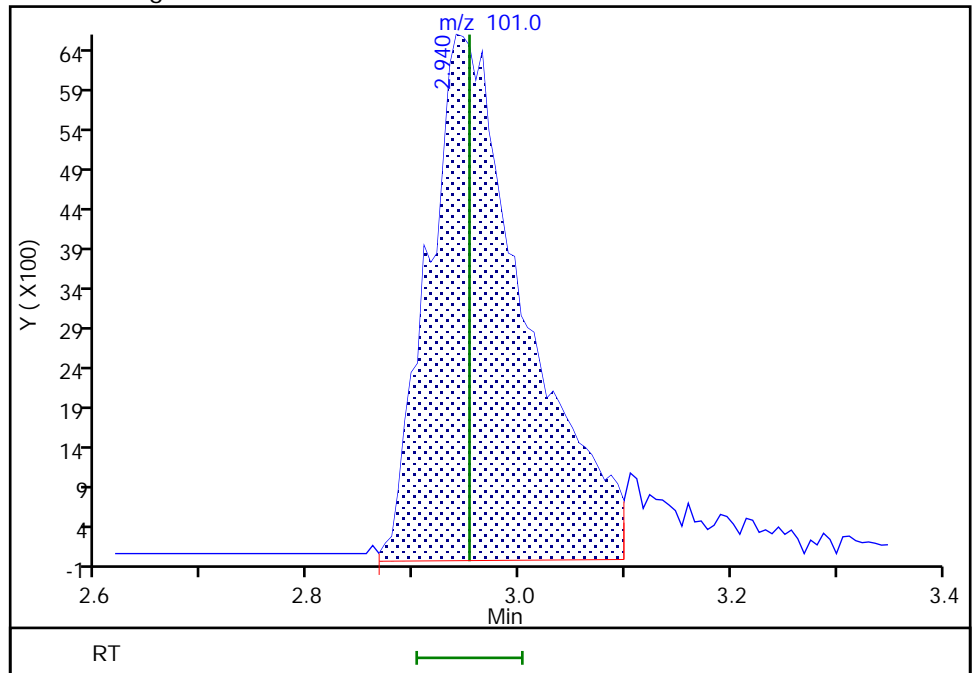
RT: 2.94  
Area: 5587  
Amount: 2.263514  
Amount Units: ug/L

Processing Integration Results



RT: 2.94  
Area: 42107  
Amount: 17.059210  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:55:45  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

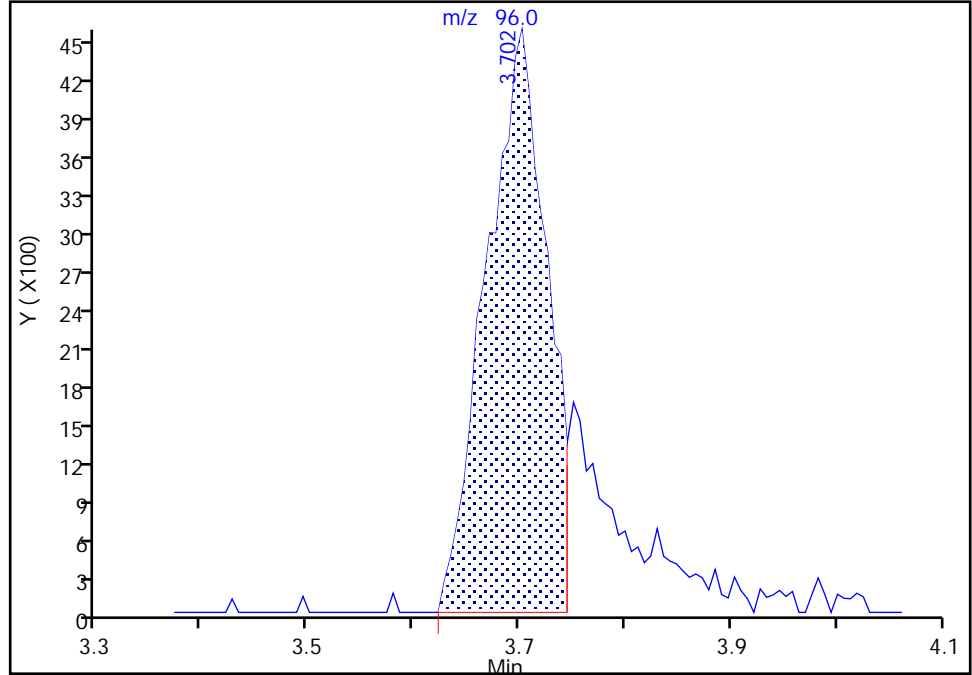
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_004.D  
Injection Date: 07-Oct-2020 14:45:30 Instrument ID: TAC119  
Lims ID: LCS 580-340245/2-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

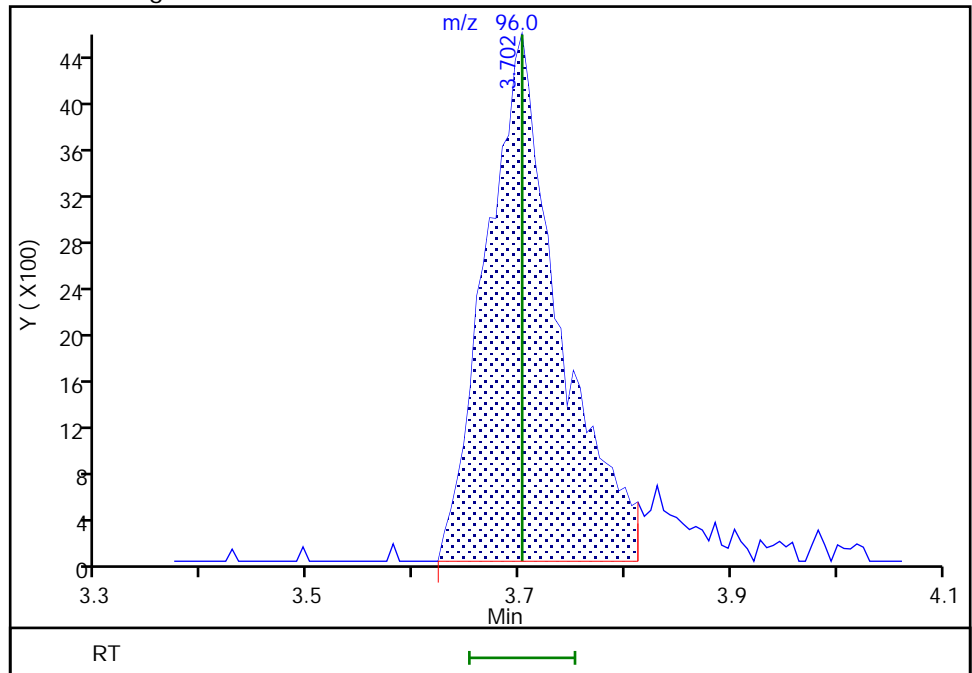
RT: 3.70  
Area: 18132  
Amount: 15.091842  
Amount Units: ug/L

Processing Integration Results



RT: 3.70  
Area: 21841  
Amount: 18.178961  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:56:01  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

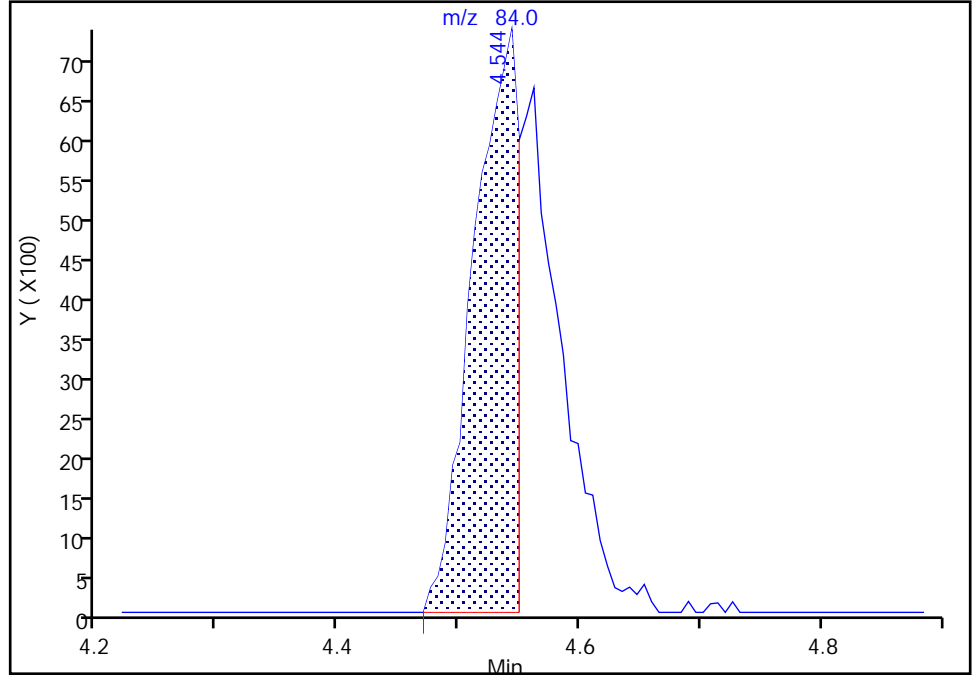
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Injection Date: 07-Oct-2020 14:45:30 Instrument ID: TAC119  
Lims ID: LCS 580-340245/2-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Signal: 1

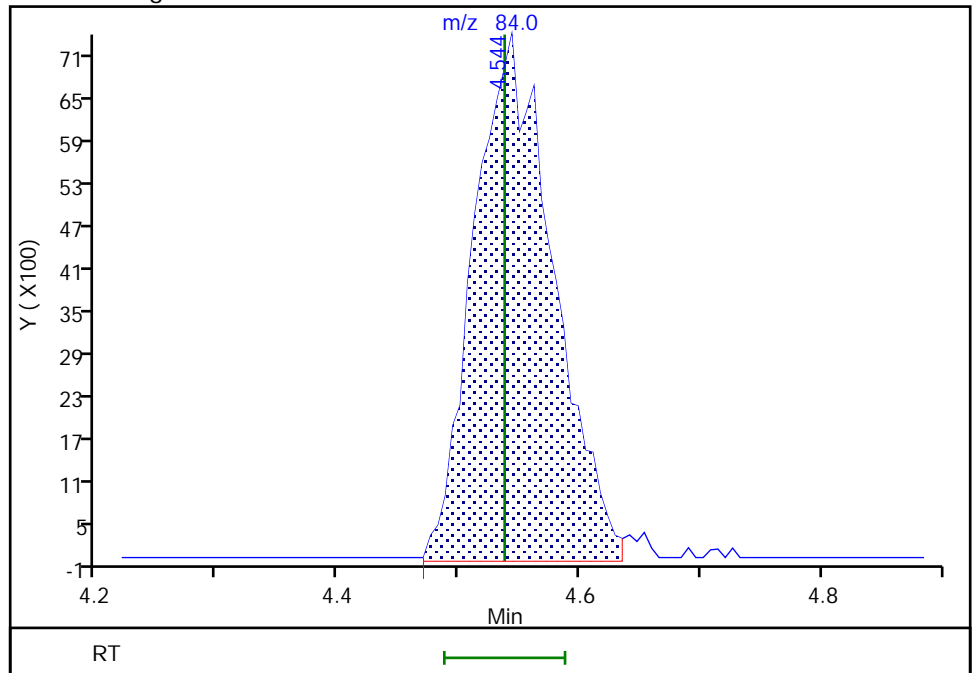
RT: 4.54  
Area: 19264  
Amount: 10.012771  
Amount Units: ug/L

Processing Integration Results



RT: 4.54  
Area: 34068  
Amount: 20.455831  
Amount Units: ug/L

Manual Integration Results



Eurofins TestAmerica, Seattle

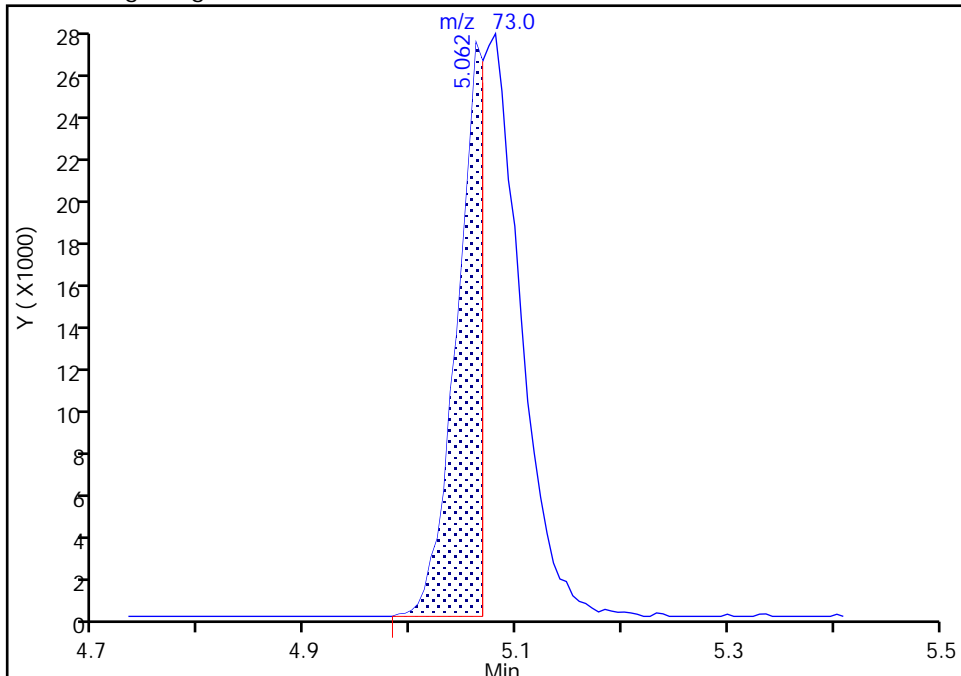
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Injection Date: 07-Oct-2020 14:45:30 Instrument ID: TAC119  
Lims ID: LCS 580-340245/2-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

28 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

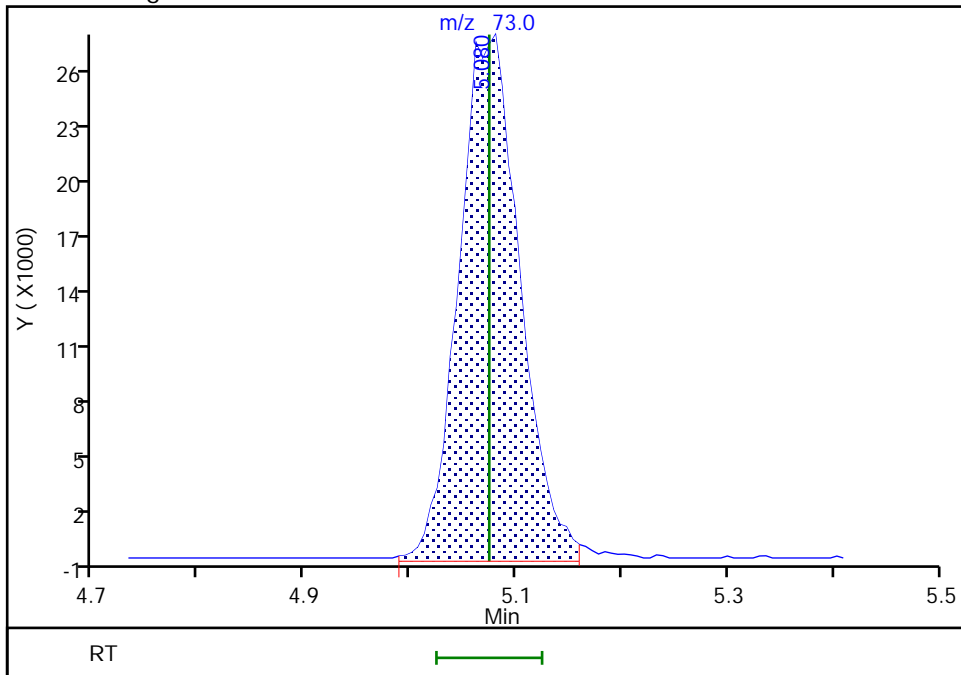
RT: 5.06  
Area: 48902  
Amount: 9.065539  
Amount Units: ug/L

Processing Integration Results



RT: 5.08  
Area: 112845  
Amount: 20.921558  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 09:56:39  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 629 of 974

Eurofins TestAmerica, Seattle

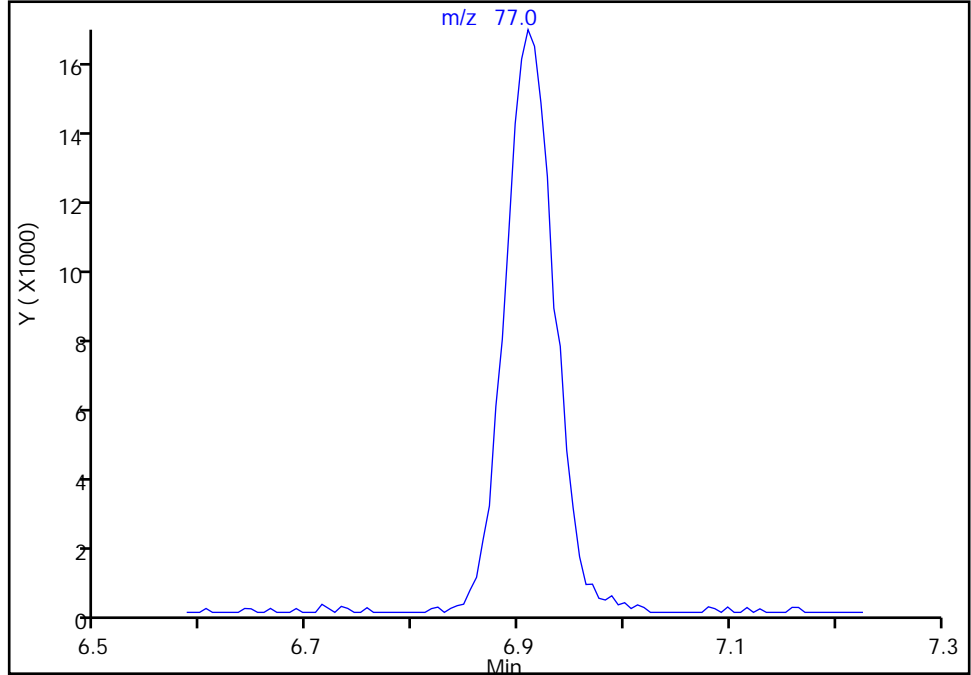
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Injection Date: 07-Oct-2020 14:45:30 Instrument ID: TAC119  
Lims ID: LCS 580-340245/2-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

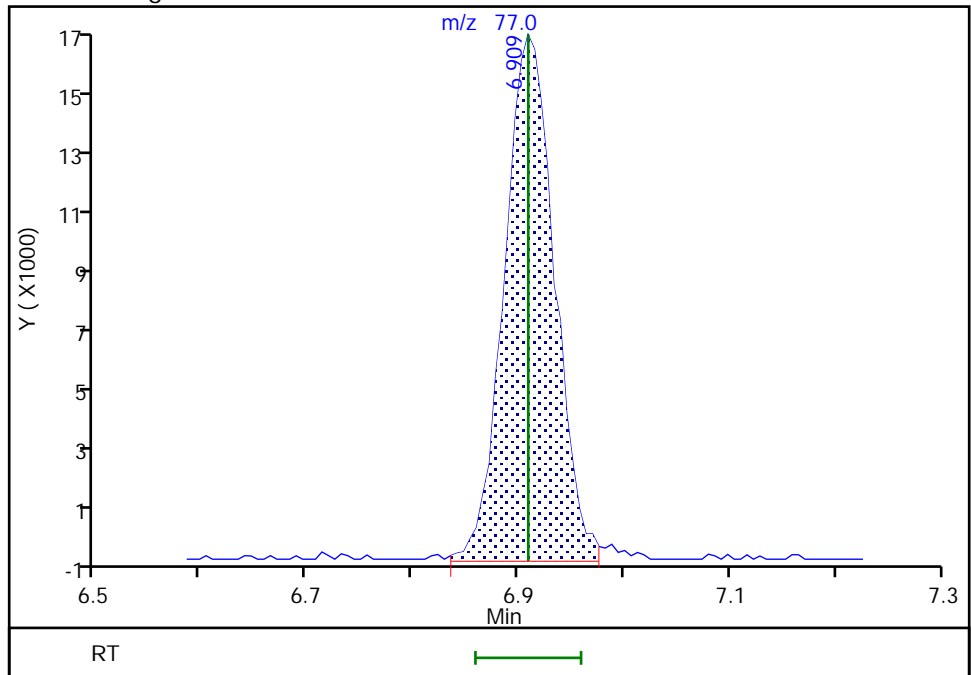
Not Detected  
Expected RT: 6.91

Processing Integration Results



Manual Integration Results

RT: 6.91  
Area: 54370  
Amount: 18.699145  
Amount Units: ug/L



Eurofins TestAmerica, Seattle

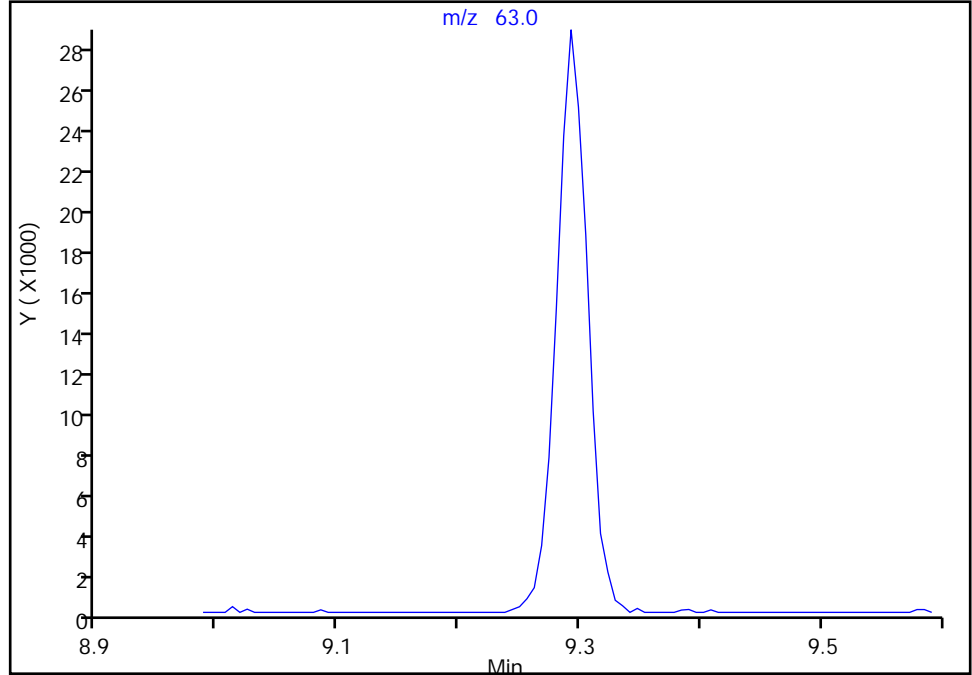
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Injection Date: 07-Oct-2020 14:45:30 Instrument ID: TAC119  
Lims ID: LCS 580-340245/2-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 4 Worklist Smp#: 4  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

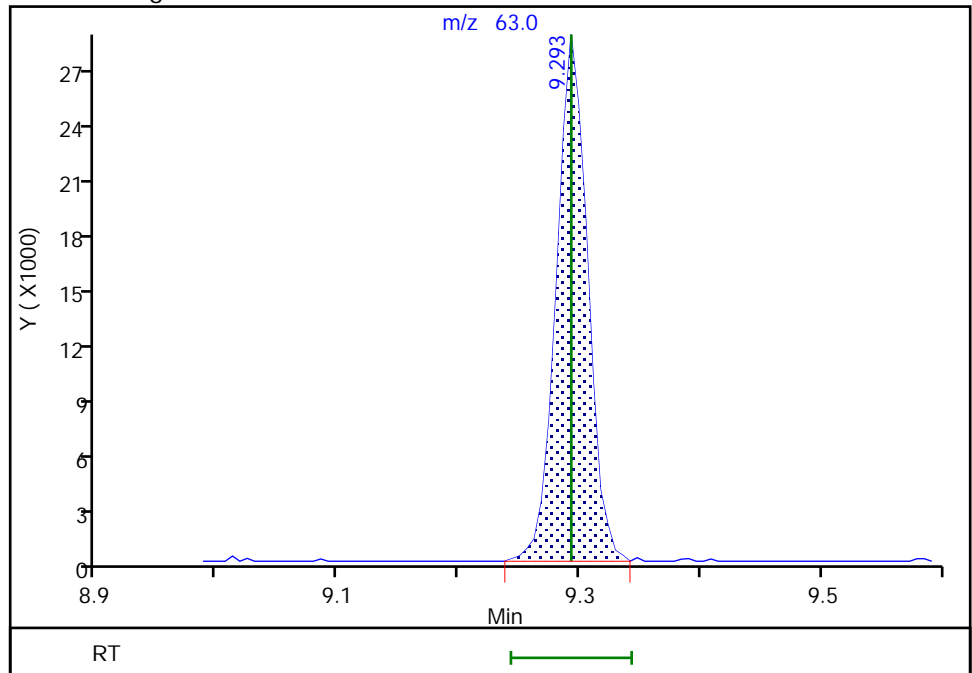
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 51515  
Amount: 20.523273  
Amount Units: ug/L



Reviewer: jantanuc, 09-Oct-2020 09:58:13  
Audit Action: Assigned Compound ID

Audit Reason: Baseline  
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FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-340822/2-A  
 Matrix: Solid Lab File ID: 10142020\_004.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 10/14/2020 16:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 340807 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-63-6	1,2,4-Trimethylbenzene	19.9		5.0	
135-98-8	sec-Butylbenzene	20.6		3.0	
99-87-6	4-Isopropyltoluene	20.3		2.0	
104-51-8	n-Butylbenzene	20.1		3.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		80-121
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		80-120



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_004.D  
 Lims ID: LCS 580-340822/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 14-Oct-2020 16:31:30 ALS Bottle#: 4 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: lcs  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Oct-2020 10:54:02 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1625

First Level Reviewer: limwirojt

Date: 15-Oct-2020 10:54:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.703	1.703	0.000	85	31478	20.0	29.0	
4 Chloromethane	50	1.922	1.922	0.000	82	70823	20.0	19.9	
5 Vinyl chloride	62	2.050	2.056	-0.006	98	42051	20.0	20.1	
6 Butadiene	54	2.105	2.105	0.000	90	36584	20.0	16.4	
7 Bromomethane	94	2.465	2.465	0.000	94	21648	20.0	21.3	
8 Chloroethane	66	2.599	2.599	0.000	93	7809	20.0	24.7	M
10 Dichlorofluoromethane	67	2.910	2.910	0.000	95	62329	20.0	23.3	
14 Trichlorofluoromethane	101	2.940	2.946	-0.006	82	55592	20.0	20.4	M
11 3-Chloro-1-propene	76	2.965	2.965	0.000	52	1092	20.0	17.6	
17 Ethyl ether	59	3.324	3.324	0.000	95	42625	20.0	17.9	
12 Acrolein	56	3.507	3.507	0.000	95	58518	120.0	107.3	
19 1,1-Dichloroethene	96	3.696	3.690	0.006	89	26166	20.0	19.7	Ma
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.733	3.733	0.000	39	23438	20.0	18.4	M
16 Acetone	43	3.739	3.733	0.006	96	91393	100.0	75.9	
22 Iodomethane	142	3.891	3.891	0.000	96	45088	20.0	18.6	M
26 Carbon disulfide	76	4.013	4.013	0.000	98	101225	20.0	20.1	
15 Isopropyl alcohol	45	4.044	4.032	0.012	96	39644	200.0	166.0	M
S 2 Xylenes, Total	100				0		40.0	36.8	
13 Acetonitrile	40	4.208	4.196	0.012	97	27840	250.0	183.3	M
24 Methyl acetate	43	4.300	4.300	0.000	98	71486	40.0	29.7	
23 Methylene Chloride	84	4.544	4.531	0.013	87	51070	20.0	29.0	Ma
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	46681	200.0	200.0	
20 2-Methyl-2-propanol	59	4.818	4.806	0.012	97	61440	200.0	174.3	
21 Acrylonitrile	53	4.964	4.976	-0.012	98	173130	200.0	165.7	
27 trans-1,2-Dichloroethene	96	5.062	5.056	0.006	67	36667	20.0	17.9	
28 Methyl tert-butyl ether	73	5.062	5.068	-0.006	85	110860	20.0	18.6	
34 Hexane	57	5.641	5.641	0.000	94	89935	20.0	17.1	
30 1,1-Dichloroethane	63	5.897	5.891	0.006	86	82161	20.0	17.1	
31 Vinyl acetate	86	5.976	5.982	-0.006	96	21037	50.0	45.7	
32 2-Chloro-1,3-butadiene	53	6.031	6.037	-0.006	71	99262	20.0	16.6	
35 Isopropyl ether	45	6.049	6.049	0.000	59	241720	25.0	20.5	
41 Tert-butyl ethyl ether	87	6.696	6.690	0.006	97	58865	25.0	21.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.909	6.909	0.000	66	58672	20.0	18.3	
37 cis-1,2-Dichloroethene	96	6.921	6.921	0.000	61	42010	20.0	18.2	
33 2-Butanone (MEK)	72	6.927	6.927	0.000	97	23732	100.0	95.1	
29 Propionitrile	54	7.007	7.013	-0.006	81	89590	250.0	223.4	
38 Ethyl acetate	43	7.049	7.049	0.000	98	115565	40.0	34.4	
36 Methacrylonitrile	67	7.257	7.257	0.000	98	161405	200.0	186.1	
39 Chlorobromomethane	130	7.299	7.293	0.006	69	25221	20.0	18.4	
40 Chloroform	83	7.506	7.506	0.000	96	69042	20.0	16.8	
48 1,1,1-Trichloroethane	97	7.708	7.702	0.006	92	62125	20.0	18.0	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.738	-0.006	76	20556	10.0	9.45	
51 Cyclohexane	84	7.793	7.799	-0.006	93	56163	20.0	19.0	
52 Carbon tetrachloride	117	7.927	7.921	0.006	78	55497	20.0	17.9	
50 1,1-Dichloropropene	75	7.939	7.945	-0.006	81	56627	20.0	17.9	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	27058	10.0	9.13	
53 Benzene	78	8.195	8.195	0.000	94	159661	20.0	18.5	
42 Isobutyl alcohol	43	8.201	8.201	0.000	64	71193	500.0	401.3	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	77	67602	20.0	16.7	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	91	140468	25.0	22.2	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	98	81783	10.0	10.0	
56 n-Heptane	43	8.628	8.628	0.000	94	101897	20.0	16.3	
45 Tetrahydrofuran	42	8.634	8.634	0.000	33	25974	40.0	32.3	
61 Trichloroethene	132	9.018	9.024	-0.006	89	40853	20.0	17.3	
57 Ethyl acrylate	55	9.152	9.153	0.000	97	70738	20.0	15.7	
49 n-Butanol	56	9.262	9.262	0.000	48	26936	500.0	427.3	
66 Methylcyclohexane	83	9.262	9.262	0.000	95	71629	20.0	18.6	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	87	49639	20.0	17.9	a
59 Dibromomethane	174	9.390	9.384	0.006	36	24304	20.0	19.9	
63 Methyl methacrylate	69	9.396	9.396	0.000	86	55895	40.0	38.5	
62 Dichlorobromomethane	83	9.591	9.585	0.006	89	56258	20.0	17.5	
58 2-Nitropropane	43	9.805	9.805	0.000	99	41323	40.0	27.3	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	88	11995	20.0	9.71	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	78	69268	20.0	18.1	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	98	100830	100.0	92.6	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	83101	10.0	10.2	
74 Toluene	91	10.341	10.341	0.000	94	182474	20.0	18.1	
70 n-Butyl acetate	43	10.475	10.475	0.000	87	10053	20.0	15.0	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	88	64020	20.0	18.3	
73 Ethyl methacrylate	69	10.622	10.622	0.000	92	50264	20.0	19.1	
71 1,1,2-Trichloroethane	97	10.738	10.744	-0.006	86	36711	20.0	20.4	
79 Tetrachloroethene	164	10.817	10.817	0.000	87	36554	20.0	19.3	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	95	63148	20.0	19.5	
76 2-Hexanone	58	10.933	10.933	0.000	75	96857	100.0	90.8	
77 Chlorodibromomethane	129	11.079	11.079	0.000	90	41992	20.0	17.8	
78 Ethylene Dibromide	107	11.176	11.170	0.006	97	35208	20.0	19.8	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	85	65068	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	92	125659	20.0	19.9	
80 1,1,1,2-Tetrachloroethane	131	11.682	11.676	0.006	45	43668	20.0	18.1	
83 Ethylbenzene	91	11.682	11.683	0.000	98	206404	20.0	20.2	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	157438	20.0	17.2	
88 o-Xylene	91	12.115	12.115	0.000	96	163883	20.0	19.6	
86 Styrene	104	12.128	12.128	0.000	90	116312	20.0	19.1	
85 Bromoform	173	12.286	12.286	0.000	90	25941	20.0	18.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
91 Isopropylbenzene	105	12.414	12.414	0.000	97	197603	20.0	19.1	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	84	23601	10.0	10.0	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	97	41112	20.0	20.1	
93 Bromobenzene	156	12.682	12.682	0.000	93	46349	20.0	19.8	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	55	17739	20.0	16.5	
90 1,2,3-Trichloropropane	110	12.713	12.707	0.006	36	12489	20.0	18.8	
94 N-Propylbenzene	91	12.749	12.749	0.000	89	233969	20.0	20.2	
95 2-Chlorotoluene	126	12.829	12.829	0.000	94	45748	20.0	19.6	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	94	164099	20.0	19.6	
96 4-Chlorotoluene	126	12.926	12.926	0.000	89	46552	20.0	19.2	
98 tert-Butylbenzene	119	13.152	13.152	0.000	93	152975	20.0	19.9	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	37	165942	20.0	19.9	
100 sec-Butylbenzene	105	13.322	13.322	0.000	95	223137	20.0	20.6	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	93	86125	20.0	20.3	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	98	182533	20.0	20.3	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	66	27397	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	91	82333	20.0	19.4	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	85	165588	20.0	18.7	
101 Benzyl chloride	126	13.597	13.597	0.000	99	17796	20.0	19.6	
108 n-Butylbenzene	134	13.761	13.761	0.000	98	44631	20.0	20.1	
107 1,2-Dichlorobenzene	146	13.798	13.792	0.006	90	81881	20.0	20.2	
109 1,2-Dibromo-3-Chloropropane	157	14.401	14.401	0.000	69	8477	20.0	19.4	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	96	59268	20.0	19.0	
111 1,2,4-Trichlorobenzene	180	15.042	15.036	0.006	94	50555	20.0	19.1	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	93	30384	20.0	18.7	
112 Naphthalene	128	15.249	15.249	0.000	97	136287	20.0	18.9	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	92	50730	20.0	18.6	
\$ 118 BFB	95	12.560	12.560	0.000	84	30203	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_004.D

Injection Date: 14-Oct-2020 16:31:30

Instrument ID: TAC119

Lims ID: LCS 580-340822/2-A

Client ID:

Operator ID: cjb

ALS Bottle#: 4

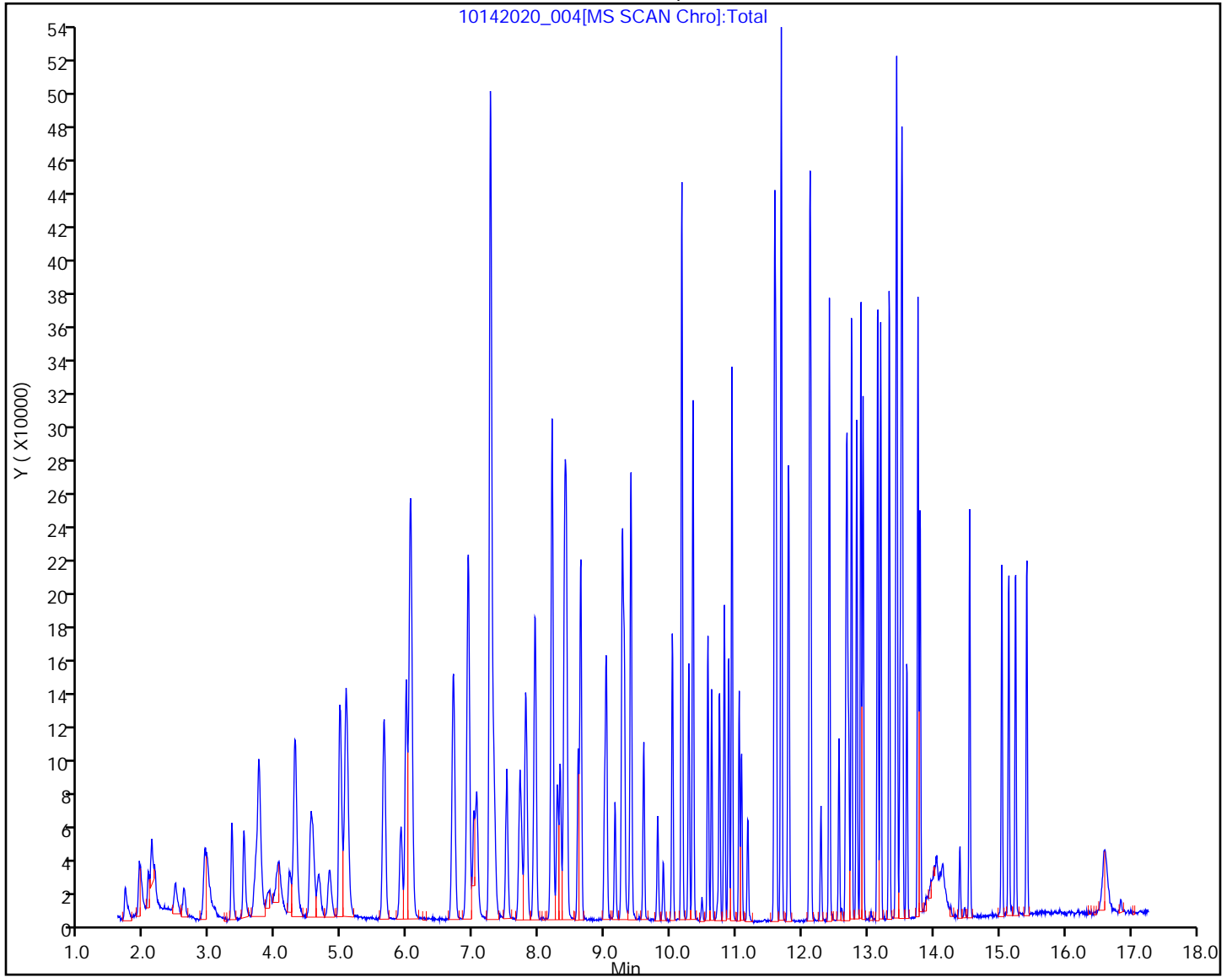
Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_004.D  
 Lims ID: LCS 580-340822/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 14-Oct-2020 16:31:30 ALS Bottle#: 4 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: lcs  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Oct-2020 10:54:02 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 10:54:02

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	9.45	94.46
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	9.13	91.28
\$ 72 Toluene-d8 (Surr)	10.0	10.2	101.59
\$ 92 4-Bromofluorobenzene (Surr)	10.0	10.0	100.38
\$ 118 BFB	10.0	0	0.00

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-340245/3-A  
 Matrix: Solid Lab File ID: 10072020\_005.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 10/07/2020 15:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-71-8	Dichlorodifluoromethane	13.0		2.0	
74-87-3	Chloromethane	14.8		5.0	
75-01-4	Vinyl chloride	16.7		2.0	
74-83-9	Bromomethane	19.8		1.0	
75-00-3	Chloroethane	19.8		10	
75-69-4	Trichlorofluoromethane	17.5		2.0	
75-35-4	1,1-Dichloroethene	19.8		5.0	
75-09-2	Methylene Chloride	23.2	J	40	
1634-04-4	Methyl tert-butyl ether	23.6		2.0	
156-60-5	trans-1,2-Dichloroethene	20.5		2.0	
75-34-3	1,1-Dichloroethane	21.7		1.0	
594-20-7	2,2-Dichloropropane	21.8		5.0	
156-59-2	cis-1,2-Dichloroethene	23.8		3.0	
74-97-5	Chlorobromomethane	24.2		2.0	
67-66-3	Chloroform	22.5		2.0	
71-55-6	1,1,1-Trichloroethane	21.9		2.0	
56-23-5	Carbon tetrachloride	22.2		2.0	
563-58-6	1,1-Dichloropropene	21.5		2.0	
71-43-2	Benzene	23.5		2.0	
107-06-2	1,2-Dichloroethane	21.9		1.0	
79-01-6	Trichloroethene	22.8		2.0	
78-87-5	1,2-Dichloropropane	23.3		2.0	
74-95-3	Dibromomethane	25.8		1.0	
75-27-4	Dichlorobromomethane	22.4		1.0	
10061-01-5	cis-1,3-Dichloropropene	23.6		1.0	
108-88-3	Toluene	23.2		10	
10061-02-6	trans-1,3-Dichloropropene	22.9		10	
79-00-5	1,1,2-Trichloroethane	24.9		2.0	
127-18-4	Tetrachloroethene	23.0		2.0	
142-28-9	1,3-Dichloropropane	24.7		2.0	
124-48-1	Chlorodibromomethane	22.2		1.5	
106-93-4	Ethylene Dibromide	24.5		1.0	
108-90-7	Chlorobenzene	24.2		2.0	
630-20-6	1,1,1,2-Tetrachloroethane	21.2		3.0	
100-41-4	Ethylbenzene	25.0		2.0	
179601-23-1	m-Xylene & p-Xylene	21.1		10	

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-340245/3-A  
 Matrix: Solid Lab File ID: 10072020\_005.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 10/07/2020 15:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 340383 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-47-6	o-Xylene	23.7		5.0	
100-42-5	Styrene	23.2		3.0	
75-25-2	Bromoform	20.1		5.0	
98-82-8	Isopropylbenzene	23.0		2.0	
108-86-1	Bromobenzene	23.2		10	
79-34-5	1,1,2,2-Tetrachloroethane	26.3		4.0	
96-18-4	1,2,3-Trichloropropane	24.5		5.0	
103-65-1	N-Propylbenzene	23.7		5.0	
95-49-8	2-Chlorotoluene	23.5		5.0	
106-43-4	4-Chlorotoluene	22.1		5.0	
98-06-6	tert-Butylbenzene	23.5		3.0	
95-63-6	1,2,4-Trimethylbenzene	23.0		5.0	
135-98-8	sec-Butylbenzene	23.9		3.0	
99-87-6	4-Isopropyltoluene	23.9		2.0	
541-73-1	1,3-Dichlorobenzene	23.9		5.0	
106-46-7	1,4-Dichlorobenzene	23.8		5.0	
104-51-8	n-Butylbenzene	23.1		3.0	
95-50-1	1,2-Dichlorobenzene	23.8		10	
96-12-8	1,2-Dibromo-3-Chloropropane	23.1		10	
120-82-1	1,2,4-Trichlorobenzene	23.3		2.0	
87-68-3	Hexachlorobutadiene	21.2		3.0	
91-20-3	Naphthalene	23.5		10	
87-61-6	1,2,3-Trichlorobenzene	22.6		3.0	
108-67-8	1,3,5-Trimethylbenzene	23.3		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		80-121
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_005.D  
 Lims ID: LCSD 580-340245/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 07-Oct-2020 15:11:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: lcsd  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 10:14:50 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc

Date: 09-Oct-2020 10:14:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.697	1.709	-0.012	80	11676	20.0	13.0	M
4 Chloromethane	50	1.922	1.922	0.000	81	45910	20.0	14.8	
5 Vinyl chloride	62	2.050	2.050	0.000	80	30394	20.0	16.7	M
6 Butadiene	54	2.105	2.111	-0.006	90	22121	20.0	11.4	
7 Bromomethane	94	2.465	2.471	-0.006	94	17451	20.0	19.8	M
8 Chloroethane	66	2.593	2.593	0.000	93	5365	20.0	19.8	M
10 Dichlorofluoromethane	67	2.916	2.916	0.000	80	59071	20.0	25.4	
14 Trichlorofluoromethane	101	2.953	2.953	0.000	83	41384	20.0	17.5	M
11 3-Chloro-1-propene	76	2.959	2.959	0.000	53	993	20.0	18.3	
17 Ethyl ether	59	3.324	3.331	-0.007	99	42422	20.0	20.5	
12 Acrolein	56	3.507	3.513	-0.006	96	65214	120.0	137.7	
19 1,1-Dichloroethene	96	3.690	3.702	-0.012	81	22882	20.0	19.8	M
16 Acetone	43	3.733	3.733	0.000	98	118918	100.0	113.7	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.751	3.739	0.012	38	21777	20.0	19.6	M
22 Iodomethane	142	3.898	3.898	0.000	98	40121	20.0	19.1	M
26 Carbon disulfide	76	4.019	4.019	0.000	96	83304	20.0	19.1	
15 Isopropyl alcohol	45	4.038	4.038	0.000	96	40427	200.0	176.7	
S 2 Xylenes, Total	100				0		40.0	44.8	
13 Acetonitrile	40	4.202	4.208	-0.006	97	30883	250.0	234.1	
24 Methyl acetate	43	4.300	4.300	0.000	99	81077	40.0	39.2	
23 Methylene Chloride	84	4.538	4.538	0.000	84	36449	20.0	23.2	
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	44706	200.0	200.0	
20 2-Methyl-2-propanol	59	4.800	4.812	-0.012	98	65545	200.0	214.0	M
21 Acrylonitrile	53	4.964	4.977	-0.013	98	207957	200.0	228.1	
27 trans-1,2-Dichloroethene	96	5.062	5.062	0.000	69	36488	20.0	20.5	
28 Methyl tert-butyl ether	73	5.080	5.074	0.006	86	122281	20.0	23.6	M
34 Hexane	57	5.641	5.635	0.006	95	78167	20.0	17.1	
30 1,1-Dichloroethane	63	5.897	5.903	-0.006	85	90447	20.0	21.7	
31 Vinyl acetate	86	5.976	5.976	0.000	96	23656	50.0	59.2	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	63	100260	20.0	19.3	
35 Isopropyl ether	45	6.050	6.056	-0.006	60	271472	25.0	26.5	
41 Tert-butyl ethyl ether	87	6.696	6.696	0.000	96	67147	25.0	28.4	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.915	6.909	0.006	57	60837	20.0	21.8	
33 2-Butanone (MEK)	72	6.921	6.927	-0.006	96	27427	100.0	126.5	
37 cis-1,2-Dichloroethene	96	6.921	6.927	-0.006	58	47693	20.0	23.8	
29 Propionitrile	54	7.001	7.007	-0.006	85	102189	250.0	293.4	
38 Ethyl acetate	43	7.049	7.055	-0.006	98	129962	40.0	44.6	
36 Methacrylonitrile	67	7.257	7.257	0.000	98	184976	200.0	245.5	
39 Chlorobromomethane	130	7.299	7.305	-0.006	65	28757	20.0	24.2	
40 Chloroform	83	7.507	7.507	0.000	82	80243	20.0	22.5	
48 1,1,1-Trichloroethane	97	7.708	7.708	0.000	88	65681	20.0	21.9	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.738	-0.006	76	18370	10.0	9.72	
51 Cyclohexane	84	7.799	7.799	0.000	94	51796	20.0	20.2	
52 Carbon tetrachloride	117	7.927	7.927	0.000	85	59797	20.0	22.2	
50 1,1-Dichloropropene	75	7.946	7.946	0.000	81	58930	20.0	21.5	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	24364	10.0	9.46	
53 Benzene	78	8.195	8.195	0.000	93	176026	20.0	23.5	
42 Isobutyl alcohol	43	8.202	8.202	0.000	67	79260	500.0	466.5	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	83	77210	20.0	21.9	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	90	153975	25.0	28.0	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	96	71034	10.0	10.0	
45 Tetrahydrofuran	42	8.628	8.634	-0.006	35	25060	40.0	36.0	
56 n-Heptane	43	8.634	8.634	0.000	95	92553	20.0	17.1	
61 Trichloroethene	132	9.018	9.025	-0.007	92	46790	20.0	22.8	
57 Ethyl acrylate	55	9.153	9.153	0.000	97	77455	20.0	19.7	
66 Methylcyclohexane	83	9.262	9.262	0.000	95	72341	20.0	21.6	
49 n-Butanol	56	9.268	9.268	0.000	48	27199	500.0	496.8	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	86	56105	20.0	23.3	a
59 Dibromomethane	174	9.384	9.390	-0.006	53	27386	20.0	25.8	
63 Methyl methacrylate	69	9.396	9.396	0.000	85	61772	40.0	49.0	
62 Dichlorobromomethane	83	9.592	9.592	0.000	89	62681	20.0	22.4	
58 2-Nitropropane	43	9.799	9.799	0.000	99	45392	40.0	34.5	
65 2-Chloroethyl vinyl ether	63	9.884	9.890	-0.006	89	12023	20.0	11.2	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	82	78934	20.0	23.6	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	99	106691	100.0	112.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	73389	10.0	10.3	
74 Toluene	91	10.341	10.341	0.000	96	204916	20.0	23.2	
70 n-Butyl acetate	43	10.476	10.475	0.001	86	10977	20.0	19.0	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	90	70137	20.0	22.9	
73 Ethyl methacrylate	69	10.622	10.622	0.000	91	52995	20.0	23.0	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	89	39067	20.0	24.9	
79 Tetrachloroethene	164	10.817	10.817	0.000	88	37563	20.0	23.0	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	94	69965	20.0	24.7	
76 2-Hexanone	58	10.933	10.933	0.000	75	105539	100.0	113.0	
77 Chlorodibromomethane	129	11.079	11.079	0.000	87	45807	20.0	22.2	
78 Ethylene Dibromide	107	11.170	11.170	0.000	99	38209	20.0	24.5	
* 81 Chlorobenzene-d5	117	11.573	11.579	-0.006	87	56950	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	91	133262	20.0	24.2	
80 1,1,1,2-Tetrachloroethane	131	11.683	11.683	0.000	40	44685	20.0	21.2	
83 Ethylbenzene	91	11.683	11.683	0.000	99	223415	20.0	25.0	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	168878	20.0	21.1	
88 o-Xylene	91	12.115	12.115	0.000	95	173227	20.0	23.7	
86 Styrene	104	12.128	12.134	-0.006	91	123759	20.0	23.2	
85 Bromoform	173	12.286	12.286	0.000	89	24691	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
91 Isopropylbenzene	105	12.414	12.414	0.000	96	208699	20.0	23.0	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	82	20551	10.0	9.99	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	94	46198	20.0	26.3	
93 Bromobenzene	156	12.682	12.682	0.000	93	47074	20.0	23.2	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	54	18545	20.0	20.0	
90 1,2,3-Trichloropropane	110	12.713	12.707	0.006	23	14093	20.0	24.5	
94 N-Propylbenzene	91	12.749	12.749	0.000	89	237141	20.0	23.7	
95 2-Chlorotoluene	126	12.829	12.835	-0.006	95	47470	20.0	23.5	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	87	168615	20.0	23.3	
96 4-Chlorotoluene	126	12.926	12.926	0.000	81	46497	20.0	22.1	
98 tert-Butylbenzene	119	13.152	13.152	0.000	89	156219	20.0	23.5	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	69	165924	20.0	23.0	
100 sec-Butylbenzene	105	13.323	13.323	0.001	95	223663	20.0	23.9	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	92	87726	20.0	23.9	
105 4-Isopropyltoluene	119	13.444	13.444	0.000	97	185216	20.0	23.9	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	45	23703	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.512	13.511	0.001	93	87368	20.0	23.8	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	98	171696	20.0	22.4	
101 Benzyl chloride	126	13.597	13.591	0.006	99	17595	20.0	22.4	
108 n-Butylbenzene	134	13.761	13.761	0.000	98	44327	20.0	23.1	
107 1,2-Dichlorobenzene	146	13.792	13.798	-0.006	89	83536	20.0	23.8	
109 1,2-Dibromo-3-Chloropropane	157	14.402	14.402	0.000	68	8744	20.0	23.1	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	93	60415	20.0	22.4	
111 1,2,4-Trichlorobenzene	180	15.042	15.042	0.000	92	53399	20.0	23.3	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	93	29793	20.0	21.2	
112 Naphthalene	128	15.249	15.249	0.000	97	146216	20.0	23.5	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	94	53278	20.0	22.6	
\$ 118 BFB	95	12.560	12.560	0.000	82	27451	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_005.D

Injection Date: 07-Oct-2020 15:11:30

Instrument ID: TAC119

Lims ID: LCSD 580-340245/3-A

Client ID:

Operator ID: jsm

ALS Bottle#: 5

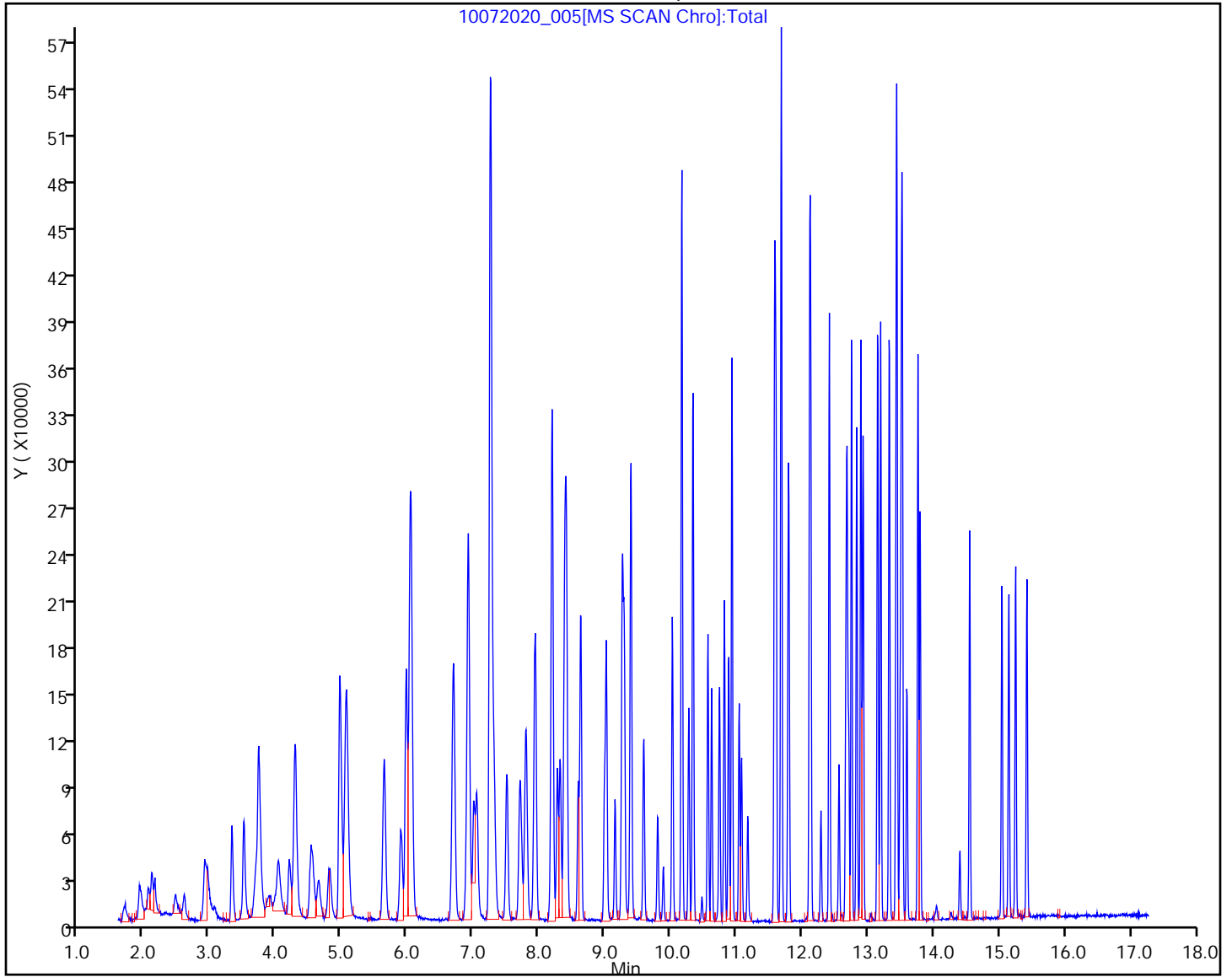
Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_005.D  
 Lims ID: LCSD 580-340245/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 07-Oct-2020 15:11:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: lcsd  
 Operator ID: jsm Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 09-Oct-2020 10:14:50 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1606

First Level Reviewer: jantanuc

Date: 09-Oct-2020 10:14:50

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	9.72	97.19
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	9.46	94.63
\$ 72 Toluene-d8 (Surr)	10.0	10.3	102.51
\$ 92 4-Bromofluorobenzene (Surr)	10.0	9.99	99.87
\$ 118 BFB	10.0	0	0.00

Eurofins TestAmerica, Seattle

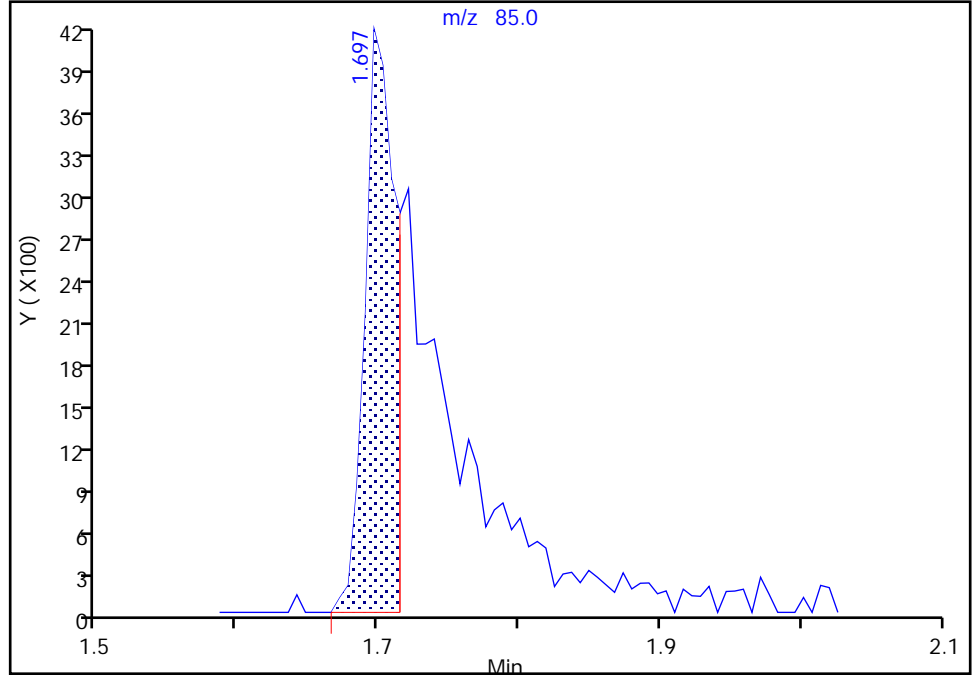
Data File: \\chromfs\Seattle\ChromData\TAC119\20201008-73294.b\10072020\_005.D  
Injection Date: 07-Oct-2020 15:11:30 Instrument ID: TAC119  
Lims ID: LCSD 580-340245/3-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

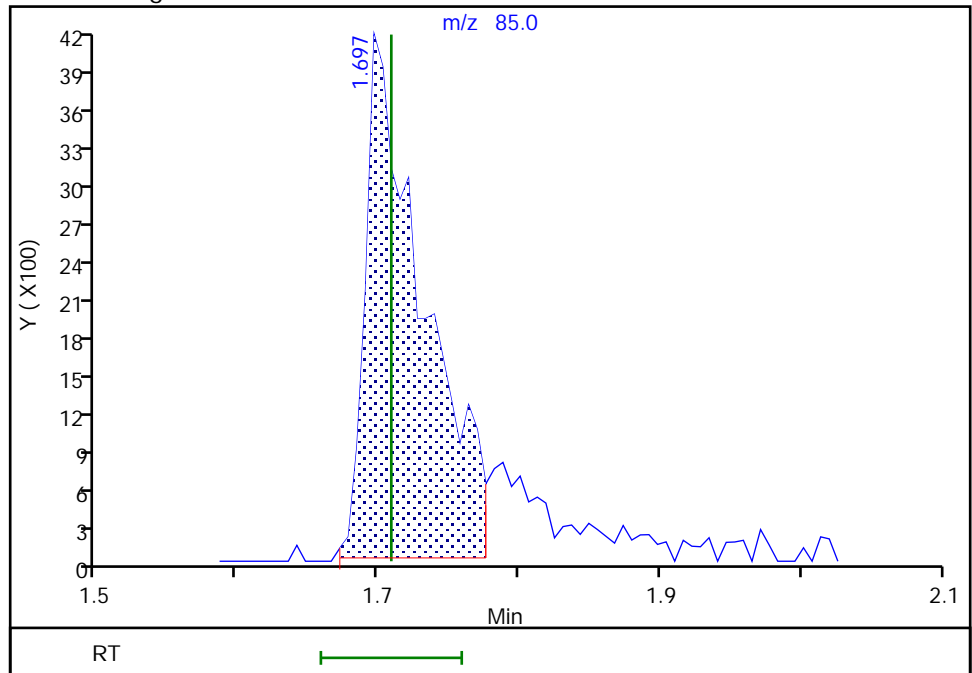
RT: 1.70  
Area: 6263  
Amount: 7.464943  
Amount Units: ug/L

Processing Integration Results



RT: 1.70  
Area: 11676  
Amount: 12.991691  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:09:56  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Seattle

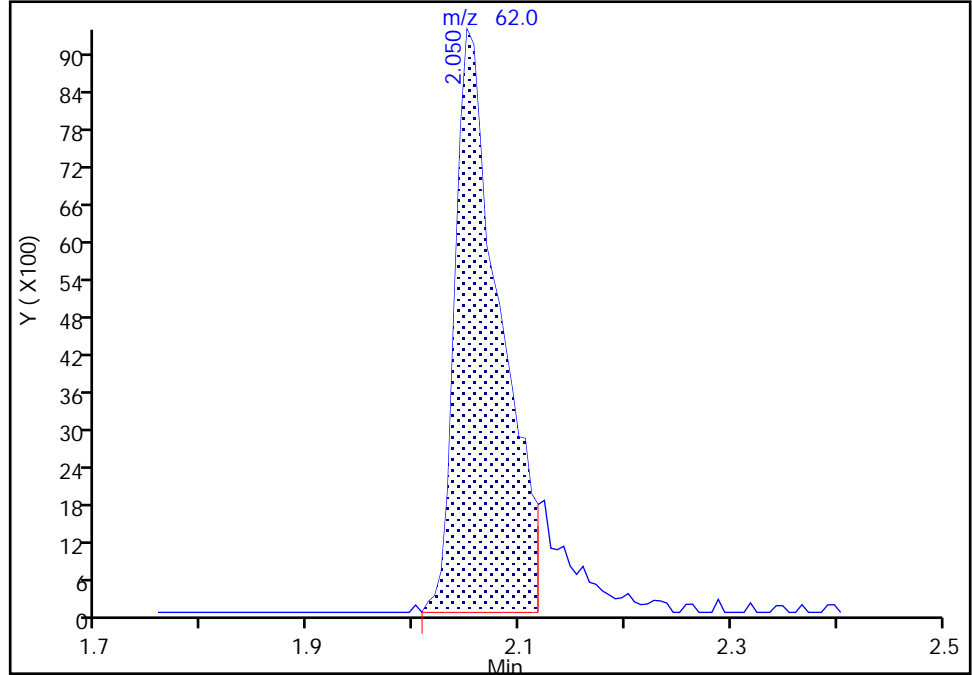
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Injection Date: 07-Oct-2020 15:11:30 Instrument ID: TAC119  
Lims ID: LCSD 580-340245/3-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

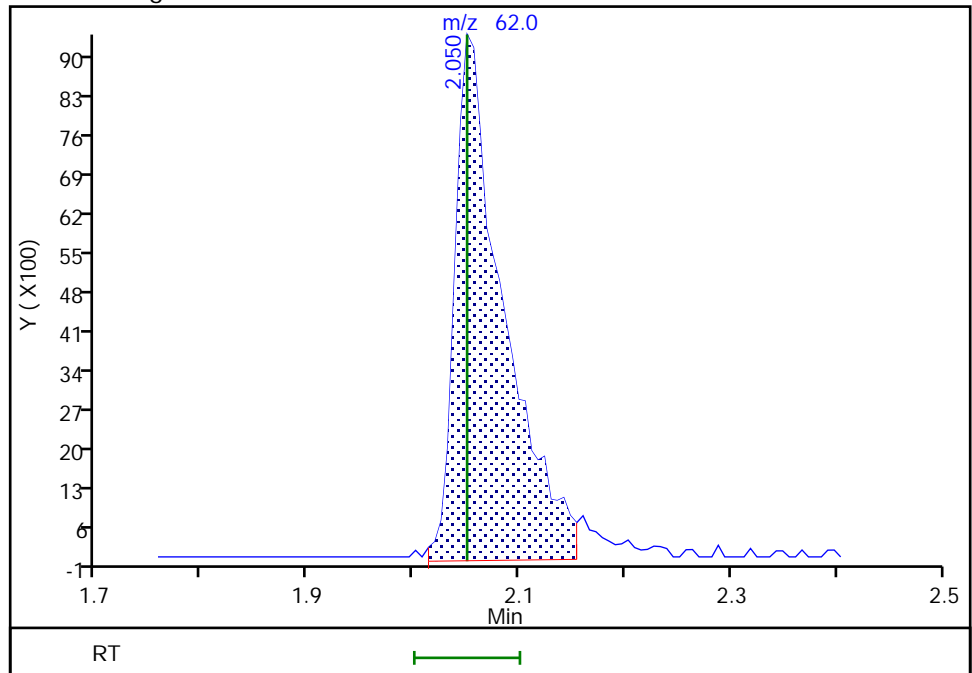
RT: 2.05  
Area: 27567  
Amount: 15.064730  
Amount Units: ug/L

Processing Integration Results



RT: 2.05  
Area: 30394  
Amount: 16.654384  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:10:36  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Seattle

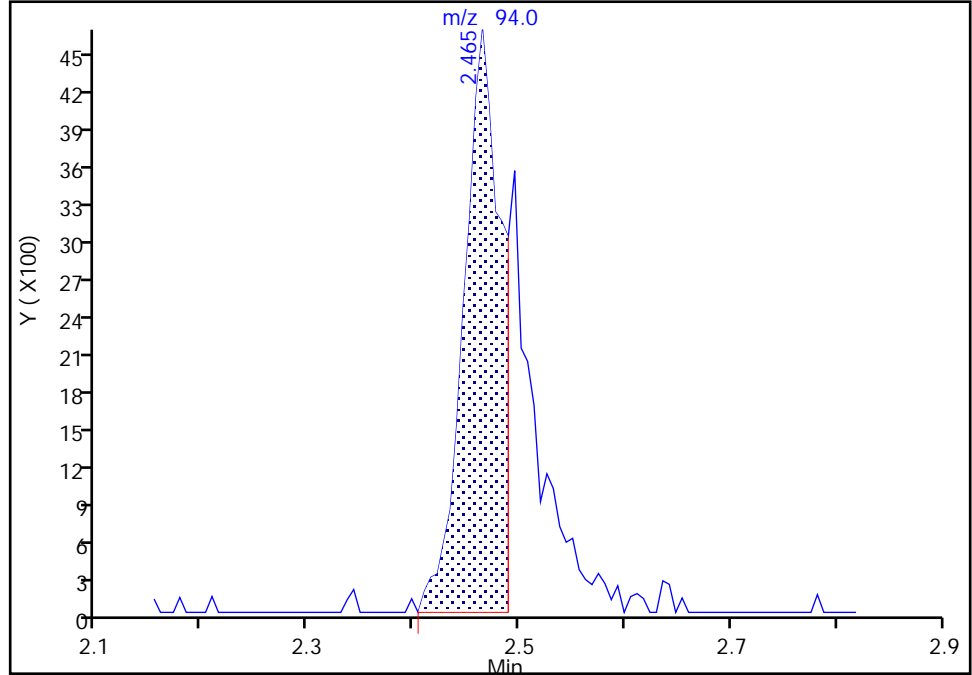
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Injection Date: 07-Oct-2020 15:11:30 Instrument ID: TAC119  
Lims ID: LCSD 580-340245/3-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Signal: 1

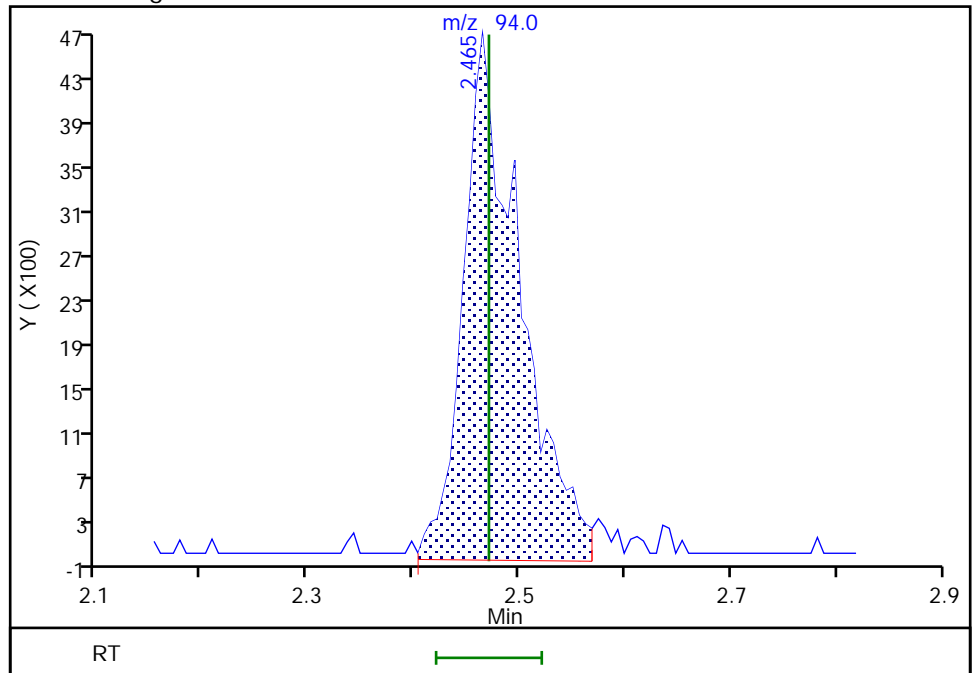
RT: 2.46  
Area: 11384  
Amount: 13.082569  
Amount Units: ug/L

Processing Integration Results



RT: 2.46  
Area: 17451  
Amount: 19.819511  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:10:44  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

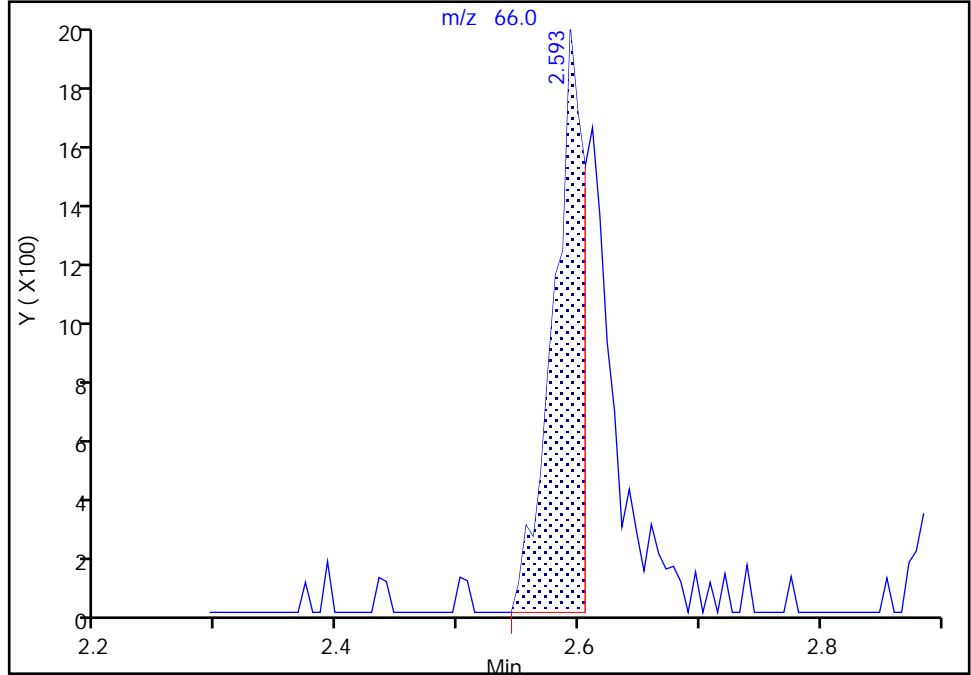
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Injection Date: 07-Oct-2020 15:11:30 Instrument ID: TAC119  
Lims ID: LCSD 580-340245/3-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Signal: 1

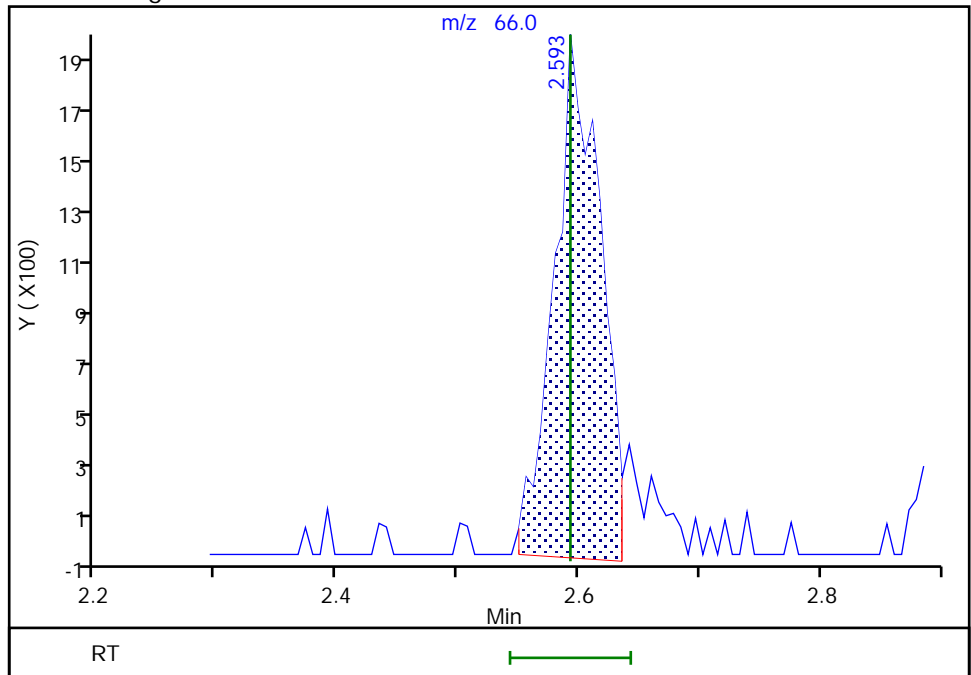
RT: 2.59  
Area: 3499  
Amount: 13.119769  
Amount Units: ug/L

Processing Integration Results



RT: 2.59  
Area: 5365  
Amount: 19.751317  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:10:50  
Audit Action: Manually Integrated



Eurofins TestAmerica, Seattle

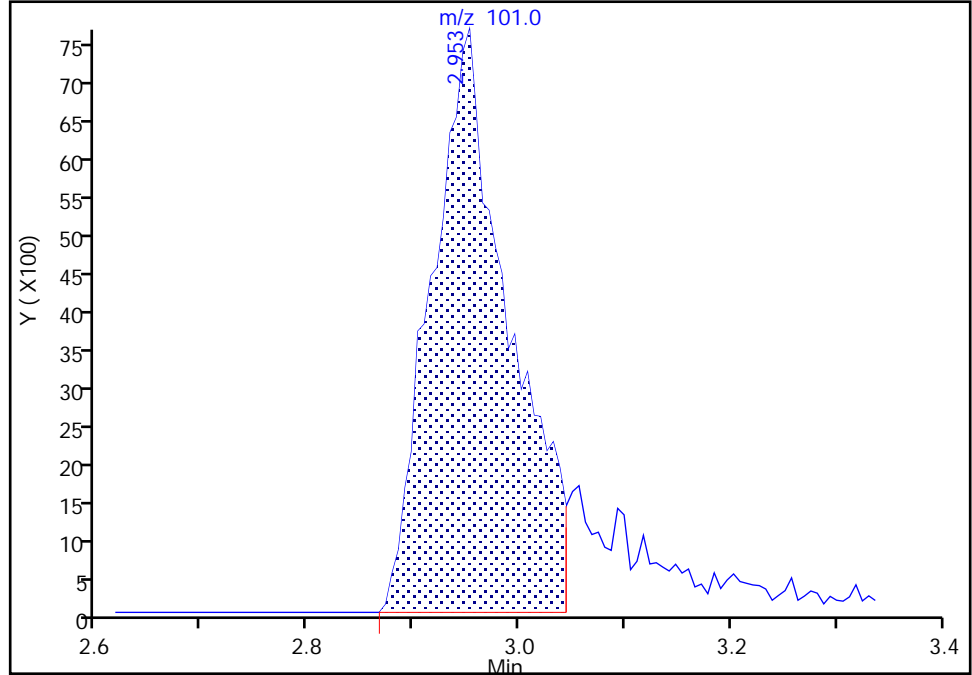
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Injection Date: 07-Oct-2020 15:11:30 Instrument ID: TAC119  
Lims ID: LCSD 580-340245/3-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

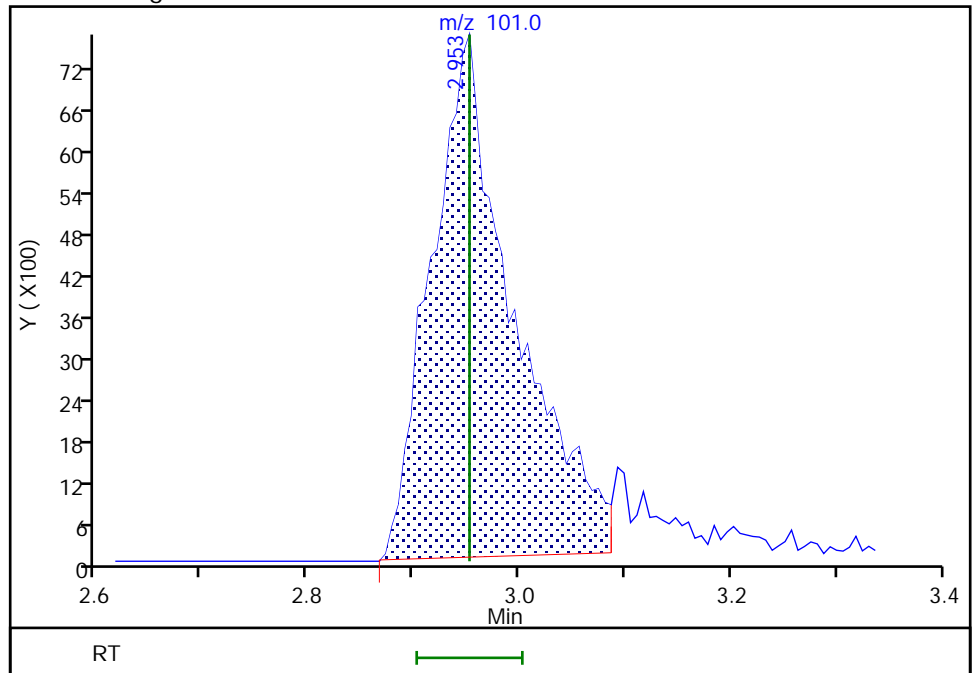
RT: 2.95  
Area: 39343  
Amount: 16.604948  
Amount Units: ug/L

Processing Integration Results



RT: 2.95  
Area: 41384  
Amount: 17.466365  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:11:17  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

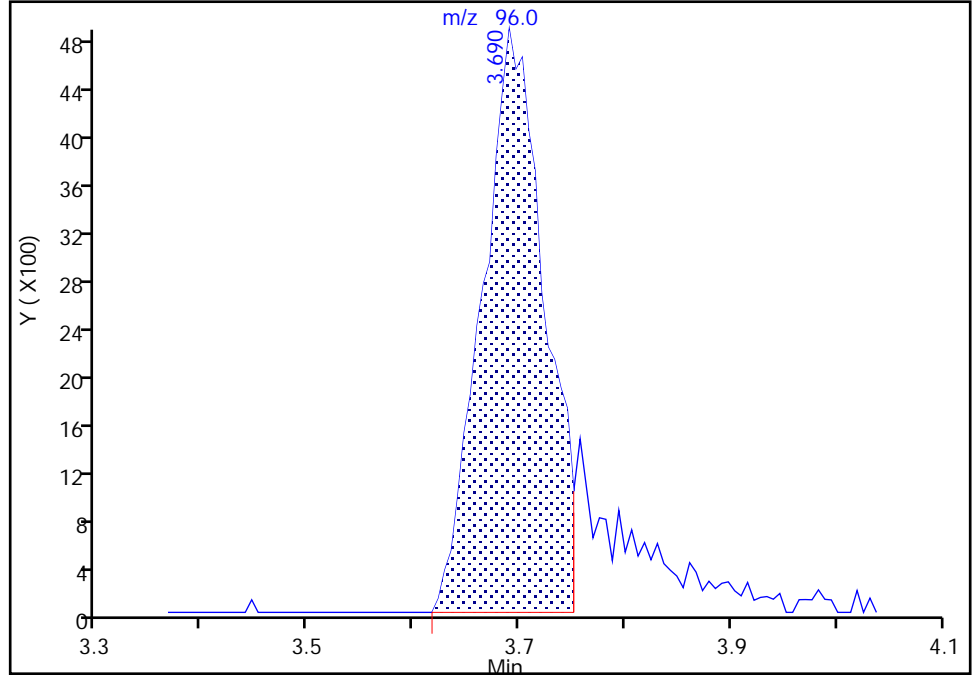
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Injection Date: 07-Oct-2020 15:11:30 Instrument ID: TAC119  
Lims ID: LCSD 580-340245/3-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

19 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

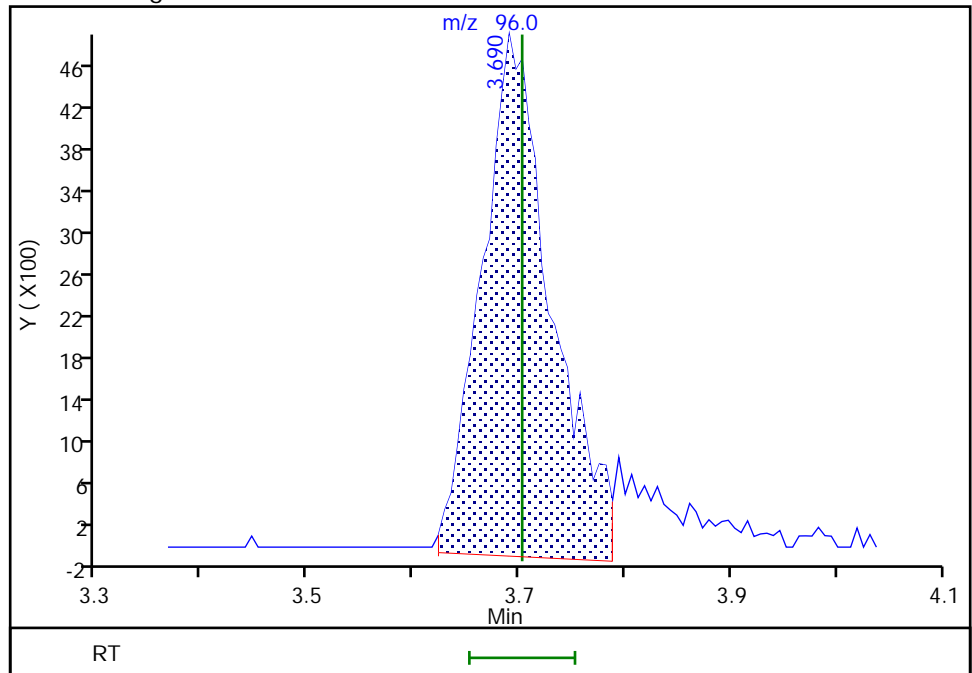
RT: 3.69  
Area: 20062  
Amount: 17.395472  
Amount Units: ug/L

Processing Integration Results



RT: 3.69  
Area: 22882  
Amount: 19.840654  
Amount Units: ug/L

Manual Integration Results



Reviewer: jantanuc, 09-Oct-2020 10:11:28  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

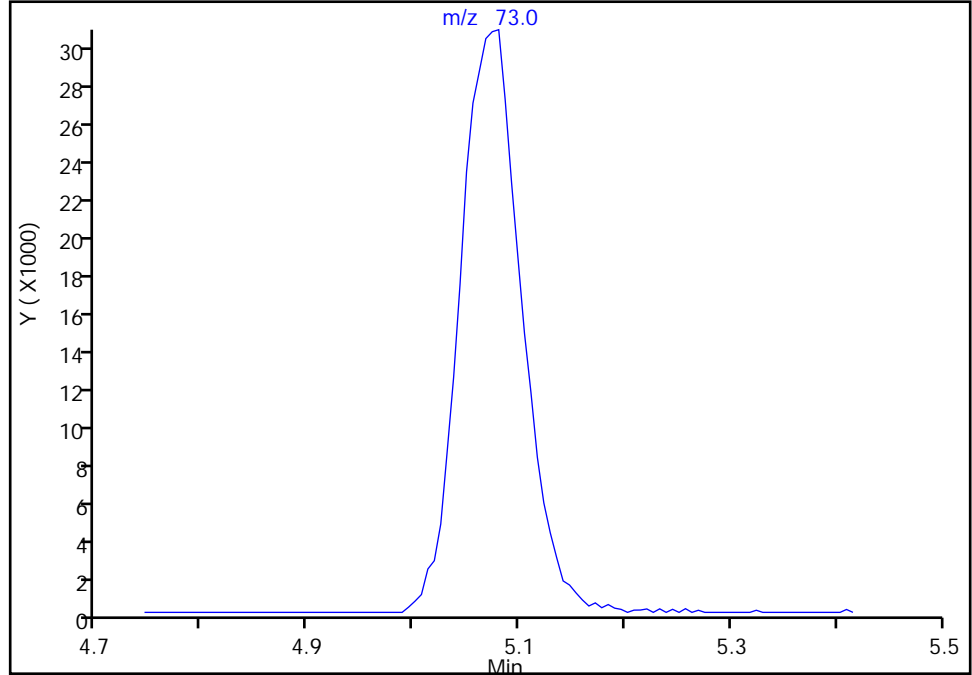
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Lims ID: LCSD 580-340245/3-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

28 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

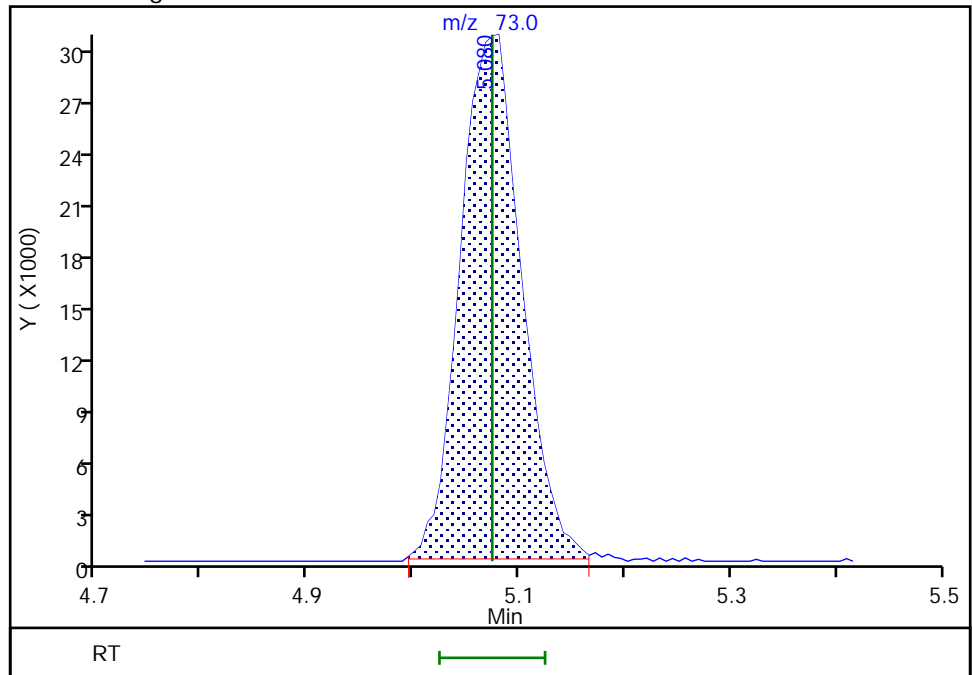
Not Detected  
Expected RT: 5.07

Processing Integration Results



Manual Integration Results

RT: 5.08  
Area: 122281  
Amount: 23.617832  
Amount Units: ug/L



Reviewer: jantanuc, 09-Oct-2020 10:13:35  
Audit Action: Manually Integrated

Eurofins TestAmerica, Seattle

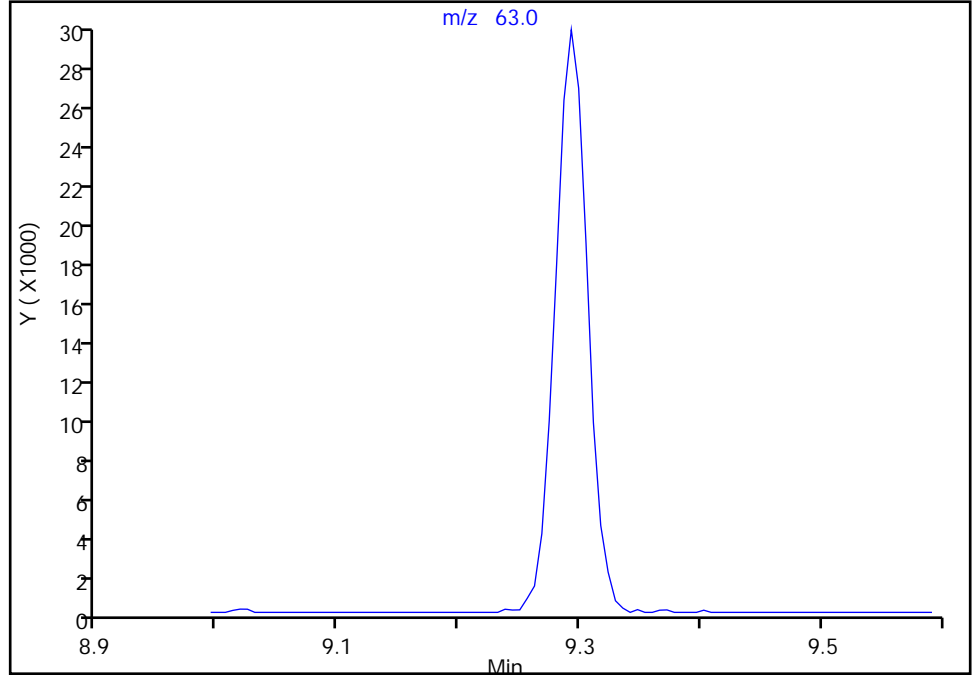
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Injection Date: 07-Oct-2020 15:11:30 Instrument ID: TAC119  
Lims ID: LCSD 580-340245/3-A  
Client ID:  
Operator ID: jsm ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: DSS TAC119 Limit Group: 8260C  
Column: Detector MS SCAN

60 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

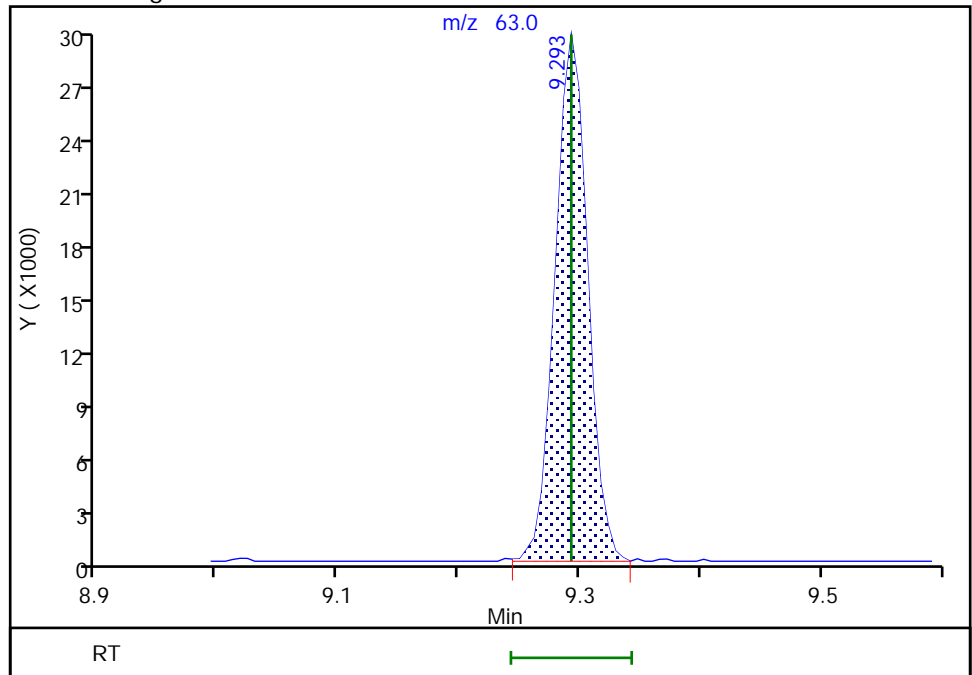
Not Detected  
Expected RT: 9.29

Processing Integration Results



Manual Integration Results

RT: 9.29  
Area: 56105  
Amount: 23.285198  
Amount Units: ug/L



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-340822/3-A  
 Matrix: Solid Lab File ID: 10142020\_005.D  
 Analysis Method: 8260D Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(g) Date Analyzed: 10/14/2020 16:57  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: 624SIL-MS ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 340807 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
95-63-6	1,2,4-Trimethylbenzene	17.8		5.0	
135-98-8	sec-Butylbenzene	18.4		3.0	
99-87-6	4-Isopropyltoluene	18.4		2.0	
104-51-8	n-Butylbenzene	18.0		3.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		80-121
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		80-120

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_005.D  
 Lims ID: LCSD 580-340822/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 14-Oct-2020 16:57:30 ALS Bottle#: 5 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: lcsd  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Oct-2020 10:59:24 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1625

First Level Reviewer: limwirojt

Date: 15-Oct-2020 10:59:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
3 Dichlorodifluoromethane	85	1.709	1.703	0.006	85	28757	20.0	27.5	
4 Chloromethane	50	1.928	1.922	0.006	82	67720	20.0	19.7	
5 Vinyl chloride	62	2.056	2.056	0.000	95	41739	20.0	20.7	
6 Butadiene	54	2.117	2.105	0.012	96	34364	20.0	16.0	
7 Bromomethane	94	2.465	2.465	0.000	89	18806	20.0	19.3	
8 Chloroethane	66	2.599	2.599	0.000	88	6431	20.0	20.8	
10 Dichlorofluoromethane	67	2.916	2.910	0.006	80	59707	20.0	23.2	
14 Trichlorofluoromethane	101	2.946	2.946	0.000	92	50517	20.0	19.2	M
11 3-Chloro-1-propene	76	2.965	2.965	0.000	67	1232	20.0	20.4	
17 Ethyl ether	59	3.324	3.324	0.000	97	41373	20.0	18.0	
12 Acrolein	56	3.513	3.507	0.006	93	58570	120.0	111.5	
19 1,1-Dichloroethene	96	3.696	3.690	0.006	82	22219	20.0	17.4	
25 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.745	3.733	0.012	42	23179	20.0	18.8	Ma
16 Acetone	43	3.733	3.733	0.000	97	89648	100.0	77.3	
22 Iodomethane	142	3.904	3.891	0.013	95	45203	20.0	19.4	M
26 Carbon disulfide	76	4.013	4.013	0.000	98	95853	20.0	19.8	
15 Isopropyl alcohol	45	4.044	4.032	0.012	97	39795	200.0	156.8	
S 2 Xylenes, Total	100				0		40.0	34.9	
13 Acetonitrile	40	4.202	4.196	0.006	100	26694	250.0	182.5	
24 Methyl acetate	43	4.300	4.300	0.000	98	75500	40.0	32.7	
23 Methylene Chloride	84	4.531	4.531	0.000	91	49833	20.0	29.4	M
* 18 TBA-d9 (IS)	65	4.647	4.647	0.000	0	49591	200.0	200.0	
20 2-Methyl-2-propanol	59	4.812	4.806	0.006	97	60160	200.0	177.1	
21 Acrylonitrile	53	4.970	4.976	-0.006	98	174414	200.0	173.2	
27 trans-1,2-Dichloroethene	96	5.062	5.056	0.006	68	35190	20.0	17.8	
28 Methyl tert-butyl ether	73	5.074	5.068	0.006	85	109473	20.0	19.1	
34 Hexane	57	5.641	5.641	0.000	96	85977	20.0	16.9	
30 1,1-Dichloroethane	63	5.897	5.891	0.006	86	79995	20.0	17.3	
31 Vinyl acetate	86	5.976	5.982	-0.006	97	19735	50.0	44.5	
32 2-Chloro-1,3-butadiene	53	6.037	6.037	0.000	64	95682	20.0	16.6	
35 Isopropyl ether	45	6.049	6.049	0.000	59	239058	25.0	21.0	
41 Tert-butyl ethyl ether	87	6.696	6.690	0.006	96	58886	25.0	22.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
43 2,2-Dichloropropane	77	6.915	6.909	0.006	61	56319	20.0	18.2	
37 cis-1,2-Dichloroethene	96	6.927	6.921	0.006	58	41518	20.0	18.7	
33 2-Butanone (MEK)	72	6.927	6.927	0.000	97	22784	100.0	94.8	
29 Propionitrile	54	7.007	7.013	-0.006	86	86870	250.0	224.9	
38 Ethyl acetate	43	7.055	7.049	0.006	98	106846	40.0	33.0	
36 Methacrylonitrile	67	7.263	7.257	0.006	97	156377	200.0	187.2	
39 Chlorobromomethane	130	7.305	7.293	0.012	64	24644	20.0	18.7	
40 Chloroform	83	7.513	7.506	0.007	96	66977	20.0	16.9	
48 1,1,1-Trichloroethane	97	7.702	7.702	0.000	88	59446	20.0	17.8	
\$ 44 Dibromofluoromethane (Surr)	113	7.732	7.738	-0.006	68	20211	10.0	9.64	
51 Cyclohexane	84	7.799	7.799	0.000	93	55205	20.0	19.4	
52 Carbon tetrachloride	117	7.927	7.921	0.006	81	52960	20.0	17.7	
50 1,1-Dichloropropene	75	7.945	7.945	0.000	81	53474	20.0	17.6	
\$ 46 1,2-Dichloroethane-d4 (Surr)	65	8.177	8.177	0.000	0	25120	10.0	8.80	
53 Benzene	78	8.195	8.195	0.000	93	155398	20.0	18.7	
42 Isobutyl alcohol	43	8.202	8.201	0.001	66	69658	500.0	369.6	
47 1,2-Dichloroethane	62	8.275	8.275	0.000	76	66607	20.0	17.1	
54 Tert-amyl methyl ether	73	8.415	8.415	0.000	89	135467	25.0	22.2	
* 55 Fluorobenzene (IS)	96	8.592	8.592	0.000	97	78774	10.0	10.0	
56 n-Heptane	43	8.634	8.628	0.006	95	94670	20.0	15.8	
45 Tetrahydrofuran	42	8.628	8.634	-0.006	35	24826	40.0	32.1	
61 Trichloroethene	132	9.018	9.024	-0.006	89	40548	20.0	17.8	
57 Ethyl acrylate	55	9.153	9.153	0.001	98	67502	20.0	15.5	
49 n-Butanol	56	9.262	9.262	0.000	49	24561	500.0	404.5	
66 Methylcyclohexane	83	9.262	9.262	0.000	95	68968	20.0	18.6	
60 1,2-Dichloropropane	63	9.293	9.293	0.000	83	47479	20.0	17.8	a
59 Dibromomethane	174	9.384	9.384	0.000	52	23015	20.0	19.6	
63 Methyl methacrylate	69	9.396	9.396	0.000	85	51333	40.0	36.7	
62 Dichlorobromomethane	83	9.591	9.585	0.006	88	52994	20.0	17.1	
58 2-Nitropropane	43	9.805	9.805	0.000	98	39949	40.0	27.4	
65 2-Chloroethyl vinyl ether	63	9.890	9.890	0.000	88	10764	20.0	8.85	
67 cis-1,3-Dichloropropene	75	10.024	10.024	0.000	80	65524	20.0	17.5	
68 4-Methyl-2-pentanone (MIBK)	58	10.171	10.171	0.000	99	93887	100.0	88.0	
\$ 72 Toluene-d8 (Surr)	98	10.274	10.274	0.000	96	79420	10.0	9.90	
74 Toluene	91	10.341	10.341	0.000	95	176356	20.0	17.8	
70 n-Butyl acetate	43	10.475	10.475	0.000	82	9743	20.0	14.8	
69 trans-1,3-Dichloropropene	75	10.567	10.567	0.000	89	59992	20.0	17.5	
73 Ethyl methacrylate	69	10.622	10.622	0.000	92	45702	20.0	17.7	
71 1,1,2-Trichloroethane	97	10.744	10.744	0.000	88	34446	20.0	19.5	
79 Tetrachloroethene	164	10.817	10.817	0.000	89	33486	20.0	18.1	
75 1,3-Dichloropropane	76	10.884	10.884	0.000	94	58867	20.0	18.6	
76 2-Hexanone	58	10.933	10.933	0.000	82	94997	100.0	90.8	
77 Chlorodibromomethane	129	11.079	11.079	0.000	88	39584	20.0	17.1	
78 Ethylene Dibromide	107	11.170	11.170	0.000	97	32977	20.0	18.9	
* 81 Chlorobenzene-d5	117	11.579	11.579	0.000	87	63813	10.0	10.0	
82 Chlorobenzene	112	11.603	11.603	0.000	90	114534	20.0	18.5	
80 1,1,1,2-Tetrachloroethane	131	11.683	11.676	0.007	41	39313	20.0	16.6	
83 Ethylbenzene	91	11.683	11.683	0.001	98	189239	20.0	18.8	
84 m-Xylene & p-Xylene	91	11.792	11.792	0.000	0	149125	20.0	16.6	
88 o-Xylene	91	12.115	12.115	0.000	96	150072	20.0	18.3	
86 Styrene	104	12.128	12.128	0.000	88	104700	20.0	17.5	
85 Bromoform	173	12.286	12.286	0.000	93	23203	20.0	16.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
91 Isopropylbenzene	105	12.414	12.414	0.000	97	180015	20.0	17.7	
\$ 92 4-Bromofluorobenzene (Surr)	174	12.560	12.560	0.000	84	22272	10.0	9.66	
87 1,1,2,2-Tetrachloroethane	83	12.664	12.664	0.000	87	39262	20.0	19.6	
93 Bromobenzene	156	12.682	12.682	0.000	91	40682	20.0	17.7	
89 trans-1,4-Dichloro-2-butene	53	12.688	12.688	0.000	53	17775	20.0	16.8	
90 1,2,3-Trichloropropane	110	12.713	12.707	0.006	31	11709	20.0	18.0	
94 N-Propylbenzene	91	12.749	12.749	0.000	88	211537	20.0	18.6	
95 2-Chlorotoluene	126	12.829	12.829	0.000	94	40347	20.0	17.6	
97 1,3,5-Trimethylbenzene	105	12.896	12.896	0.000	93	145795	20.0	17.8	
96 4-Chlorotoluene	126	12.926	12.926	0.000	81	42431	20.0	17.8	
98 tert-Butylbenzene	119	13.152	13.152	0.000	94	134668	20.0	17.8	
99 1,2,4-Trimethylbenzene	105	13.194	13.194	0.000	67	145630	20.0	17.8	
100 sec-Butylbenzene	105	13.322	13.322	0.000	95	195012	20.0	18.4	
102 1,3-Dichlorobenzene	146	13.432	13.432	0.000	91	75180	20.0	18.1	
105 4-Isopropyltoluene	119	13.438	13.444	-0.006	96	161766	20.0	18.4	
* 103 1,4-Dichlorobenzene-d4	152	13.493	13.493	0.000	68	26888	10.0	10.0	
104 1,4-Dichlorobenzene	146	13.511	13.511	0.000	92	75040	20.0	18.0	
106 1,2,3-Trimethylbenzene	105	13.524	13.524	0.000	83	152037	20.0	17.5	
101 Benzyl chloride	126	13.591	13.597	-0.006	99	16131	20.0	18.1	
108 n-Butylbenzene	134	13.761	13.761	0.000	97	39330	20.0	18.0	
107 1,2-Dichlorobenzene	146	13.798	13.792	0.006	91	74063	20.0	18.6	
109 1,2-Dibromo-3-Chloropropane	157	14.402	14.401	0.001	68	7751	20.0	18.1	
110 1,3,5-Trichlorobenzene	180	14.548	14.548	0.000	91	51754	20.0	16.9	
111 1,2,4-Trichlorobenzene	180	15.042	15.036	0.006	92	47075	20.0	18.1	
113 Hexachlorobutadiene	225	15.145	15.145	0.000	95	27616	20.0	17.4	
112 Naphthalene	128	15.249	15.249	0.000	97	128546	20.0	18.2	
114 1,2,3-Trichlorobenzene	180	15.420	15.420	0.000	94	47981	20.0	18.0	
\$ 118 BFB	95	12.560	12.560	0.000	85	29543	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

5X SUR/IS\_00001

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_005.D

Injection Date: 14-Oct-2020 16:57:30

Instrument ID: TAC119

Lims ID: LCSD 580-340822/3-A

Client ID:

Operator ID: cjb

ALS Bottle#: 5

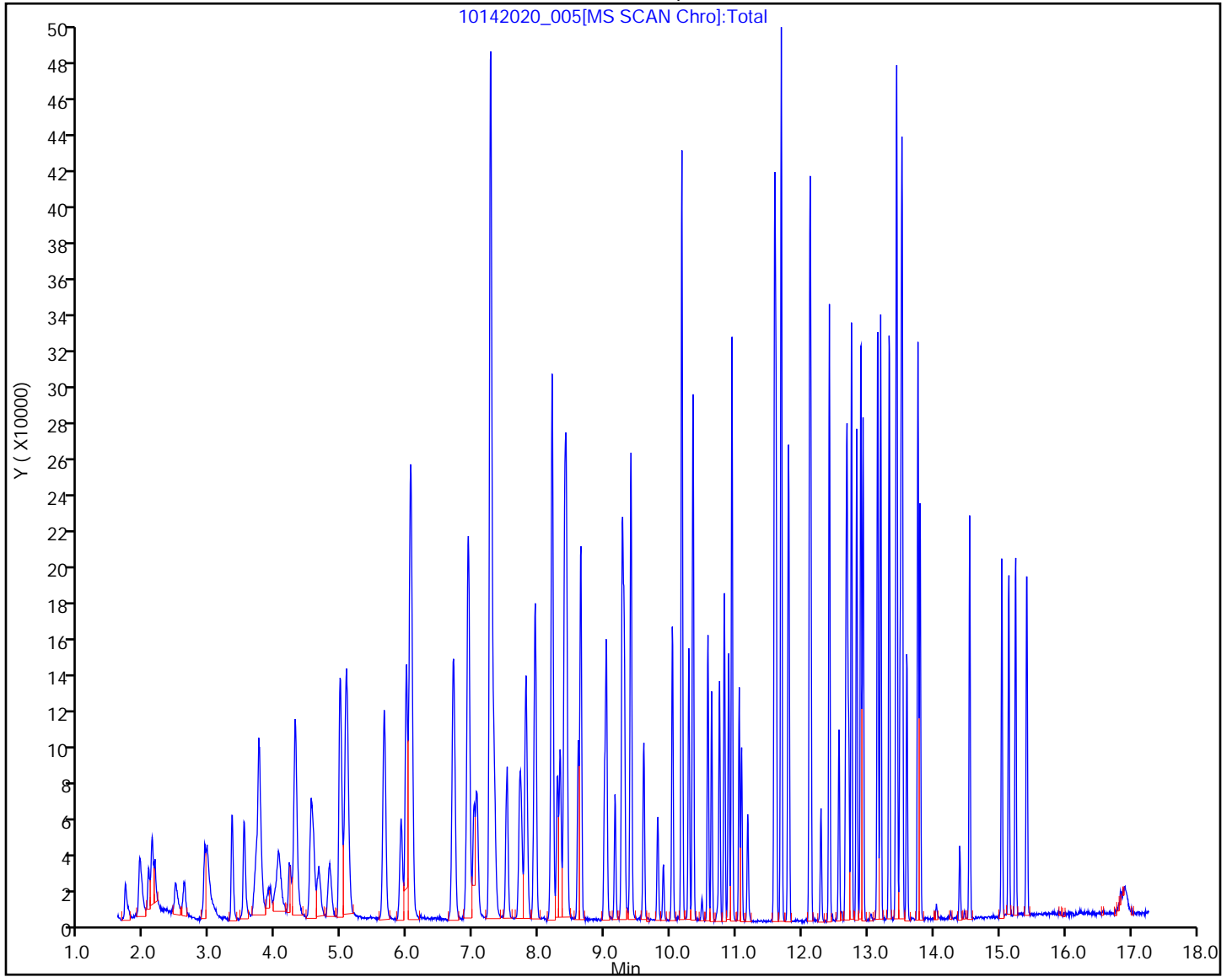
Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: DSS TAC119

Limit Group: 8260C



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\10142020\_005.D  
 Lims ID: LCSD 580-340822/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 14-Oct-2020 16:57:30 ALS Bottle#: 5 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: lcsd  
 Operator ID: cjb Instrument ID: TAC119  
 Method: \\chromfs\Seattle\ChromData\TAC119\20201014-73371.b\DSS TAC119.m  
 Limit Group: 8260C  
 Last Update: 15-Oct-2020 10:59:24 Calib Date: 01-Oct-2020 20:22:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC119\20201001-73186.b\10012020\_010.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 10:59:24

Compound	Amount Added	Amount Recovered	% Rec.
\$ 44 Dibromofluoromethane (Surr)	10.0	9.64	96.43
\$ 46 1,2-Dichloroethane-d4 (Surr)	10.0	8.80	87.98
\$ 72 Toluene-d8 (Surr)	10.0	9.90	99.00
\$ 92 4-Bromofluorobenzene (Surr)	10.0	9.66	96.59
\$ 118 BFB	10.0	0	0.00

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Start Date: 10/01/2020 16:55Analysis Batch Number: 339812 End Date: 10/01/2020 21:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-339812/2		10/01/2020 16:55	1	10012020_002.D	624SIL-MS 0.25 (mm)
IC 580-339812/3		10/01/2020 16:55	1	10012020_002z.D	624SIL-MS 0.25 (mm)
IC 580-339812/4		10/01/2020 17:21	1	10012020_003.D	624SIL-MS 0.25 (mm)
IC 580-339812/5		10/01/2020 17:47	1	10012020_004.D	624SIL-MS 0.25 (mm)
IC 580-339812/6		10/01/2020 18:13	1	10012020_005.D	624SIL-MS 0.25 (mm)
IC 580-339812/7		10/01/2020 18:39	1	10012020_006.D	624SIL-MS 0.25 (mm)
ICIS 580-339812/8		10/01/2020 19:04	1	10012020_007.D	624SIL-MS 0.25 (mm)
IC 580-339812/9		10/01/2020 19:30	1	10012020_008.D	624SIL-MS 0.25 (mm)
IC 580-339812/10		10/01/2020 19:56	1	10012020_009.D	624SIL-MS 0.25 (mm)
IC 580-339812/11		10/01/2020 20:22	1	10012020_010.D	624SIL-MS 0.25 (mm)
ZZZZZ		10/01/2020 20:47	1		624SIL-MS 0.25 (mm)
ICV 580-339812/13		10/01/2020 21:13	1	10012020_012.D	624SIL-MS 0.25 (mm)
CCVL 580-339812/14		10/01/2020 21:39	1		624SIL-MS 0.25 (mm)

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Start Date: 10/07/2020 13:54Analysis Batch Number: 340383 End Date: 10/07/2020 18:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-340383/2		10/07/2020 13:54	1	10072020_002.D	624SIL-MS 0.25 (mm)
CCVIS 580-340383/3		10/07/2020 14:20	1	10072020_003.D	624SIL-MS 0.25 (mm)
BFB 580-340383/1003		10/07/2020 14:20	1		624SIL-MS 0.25 (mm)
LCS 580-340245/2-A		10/07/2020 14:45	1	10072020_004.D	624SIL-MS 0.25 (mm)
LCSD 580-340245/3-A		10/07/2020 15:11	1	10072020_005.D	624SIL-MS 0.25 (mm)
CCVL 580-340383/6		10/07/2020 15:37	1	10072020_006.D	624SIL-MS 0.25 (mm)
MB 580-340245/1-A		10/07/2020 16:03	1	10072020_007.D	624SIL-MS 0.25 (mm)
580-98033-5	Trip-Blank-02	10/07/2020 16:29	1	10072020_008.D	624SIL-MS 0.25 (mm)
580-98033-1	AB-01B-15.5	10/07/2020 17:20	1	10072020_010.D	624SIL-MS 0.25 (mm)
580-98033-2	AB-02B-16.5	10/07/2020 17:45	1	10072020_011.D	624SIL-MS 0.25 (mm)
580-98033-3	AB-03B-16.5	10/07/2020 18:11	1	10072020_012.D	624SIL-MS 0.25 (mm)
580-98033-4	AB-04B-16.5	10/07/2020 18:37	1	10072020_013.D	624SIL-MS 0.25 (mm)

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC119 Start Date: 10/14/2020 15:40Analysis Batch Number: 340807 End Date: 10/14/2020 20:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 580-340807/2		10/14/2020 15:40	1	10142020_002.D	624SIL-MS 0.25 (mm)
CCVIS 580-340807/3		10/14/2020 16:05	1	10142020_003.D	624SIL-MS 0.25 (mm)
BFB 580-340807/1003		10/14/2020 16:05	1		624SIL-MS 0.25 (mm)
LCS 580-340822/2-A		10/14/2020 16:31	1	10142020_004.D	624SIL-MS 0.25 (mm)
LCSD 580-340822/3-A		10/14/2020 16:57	1	10142020_005.D	624SIL-MS 0.25 (mm)
CCVL 580-340807/6		10/14/2020 17:22	1		624SIL-MS 0.25 (mm)
MB 580-340822/1-A		10/14/2020 17:48	1	10142020_007.D	624SIL-MS 0.25 (mm)
ZZZZZ		10/14/2020 18:14	1		624SIL-MS 0.25 (mm)
ZZZZZ		10/14/2020 18:40	1		624SIL-MS 0.25 (mm)
ZZZZZ		10/14/2020 19:06	1		624SIL-MS 0.25 (mm)
ZZZZZ		10/14/2020 19:31	1		624SIL-MS 0.25 (mm)
580-98033-2 RA	AB-02B-16.5 RA	10/14/2020 19:57	1	10142020_012.D	624SIL-MS 0.25 (mm)
580-98033-3 RA	AB-03B-16.5 RA	10/14/2020 20:23	1	10142020_013.D	624SIL-MS 0.25 (mm)
ZZZZZ		10/14/2020 20:48	1		624SIL-MS 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Batch Number: 340245 Batch Start Date: 10/07/20 13:18 Batch Analyst: McKell, Justin S

Batch Method: 5035 Batch End Date: 10/07/20 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	VOAMasterMix 00060	VoaSand 00069
MB 580-340245/1		5035, 8260D				5 g	5 mL		5 g
LCS 580-340245/2		5035, 8260D				5 g	5 mL	2 uL	5 g
LCSD 580-340245/3		5035, 8260D				5 g	5 mL	2 uL	5 g
580-98033-A-1	AB-01B-15.5	5035, 8260D	T	26.209 g	30.98 g	4.771 g	5 mL		
580-98033-A-2	AB-02B-16.5	5035, 8260D	T	26.302 g	32.71 g	6.408 g	5 mL		
580-98033-A-3	AB-03B-16.5	5035, 8260D	T	26.213 g	32.49 g	6.277 g	5 mL		
580-98033-A-4	AB-04B-16.5	5035, 8260D	T	25.837 g	32.57 g	6.733 g	5 mL		
580-98033-A-5	Trip-Blank-02	5035, 8260D	T			5 g	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 580-340245/1		5035, 8260D							
LCS 580-340245/2		5035, 8260D							
LCSD 580-340245/3		5035, 8260D							
580-98033-A-1	AB-01B-15.5	5035, 8260D	T						
580-98033-A-2	AB-02B-16.5	5035, 8260D	T	over					
580-98033-A-3	AB-03B-16.5	5035, 8260D	T	over					
580-98033-A-4	AB-04B-16.5	5035, 8260D	T	over					
580-98033-A-5	Trip-Blank-02	5035, 8260D	T						

Batch Notes	
Balance ID	sea239
Blank Matrix ID	2668736
Pipette/Syringe/Dispenser ID	bt4
Preservative ID	di h20

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Batch Number: 340822 Batch Start Date: 10/14/20 15:38 Batch Analyst: Bohn, Christina J

Batch Method: 5035 Batch End Date: 10/14/20 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	VOAMasterMix 00061	VoaSand 00069
MB 580-340822/1		5035, 8260D				5 g	5 mL		5 g
LCS 580-340822/2		5035, 8260D				5 g	5 mL	2 uL	5 g
LCSD 580-340822/3		5035, 8260D				5 g	5 mL	2 uL	5 g
580-98033-A-2	AB-02B-16.5	5035, 8260D	T	+026.216 g	32.19 g	5.974 g	5 mL		
580-98033-A-3	AB-03B-16.5	5035, 8260D	T	+026.226 g	32.75 g	6.524 g	5 mL		

Batch Notes	
Balance ID	sea239
Blank Matrix ID	2668736
Pipette/Syringe/Dispenser ID	bt4
Preservative ID	di h20
Vial Lot Number	0103101F

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.

# Method NWTPH Gx

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Northwest - Volatile Petroleum  
Products (GC) by Method NWTPH\_Gx



FORM II  
GC VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Medium

GC Column (2): RTX-VRX 0.45 (mm)

Client Sample ID	Lab Sample ID	BFB2 #
AB-01B-15.5	580-98033-1	83
AB-02B-16.5	580-98033-2	483 X
AB-03B-16.5	580-98033-3	265 X
AB-04B-16.5	580-98033-4	85
Trip-Blank-02	580-98033-5	83
	MB 580-340534/1-A	81
	LCS 580-340534/2-A	90
	LCSD 580-340534/3-A	84

BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS  
50-150

# Column to be used to flag recovery values

FORM II NWTPH-Gx

FORM III  
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Medium Lab File ID: 101120006.D

Lab ID: LCS 580-340534/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
Gasoline	40.0	36.8	92	80-120	

# Column to be used to flag recovery and RPD values

FORM III  
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Medium Lab File ID: 101120007.D

Lab ID: LCSD 580-340534/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/Kg)	LCSD CONCENTRATION (mg/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Gasoline	40.0	36.4	91	1	10	80-120	

# Column to be used to flag recovery and RPD values

FORM IV  
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: MB 580-340534/1-A  
 Matrix: Solid Date Extracted: 10/11/2020 10:57  
 Lab File ID: (1) \_\_\_\_\_ Lab File ID: (2) 101120005.D  
 Date Analyzed: (1) \_\_\_\_\_ Date Analyzed: (2) 10/11/2020 12:18  
 Instrument ID: (1) \_\_\_\_\_ Instrument ID: (2) SEA006  
 GC Column: (1) \_\_\_\_\_ ID: \_\_\_\_\_ GC Column: (2) RTX-VRX ID: 0.45 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 580-340534/2-A		10/11/2020 12:42
	LCSD 580-340534/3-A		10/11/2020 13:07
Trip-Blank-02	580-98033-5		10/11/2020 13:32
AB-01B-15.5	580-98033-1		10/11/2020 14:46
AB-02B-16.5	580-98033-2		10/11/2020 15:10
AB-04B-16.5	580-98033-4		10/12/2020 11:13
AB-03B-16.5	580-98033-3		10/12/2020 11:37

FORM VIII  
GC VOA ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICRT 580-325923/12 Date Analyzed: 03/31/2020 21:28  
 Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm)  
 Lab File ID (Standard): 03310013.D Heated Purge: (Y/N) N  
 Calibration ID: 29088

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				BFB		
				RT #		
INITIAL CALIBRATION SURROGATE				11.12		
UPPER LIMIT				11.15		
LOWER LIMIT				11.09		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 580-325923/12		03/31/2020 21:28	03310013.D	11.12		
ICV 580-325923/17		03/31/2020 23:29	03310018.D	11.12		

BFB = 4-Bromofluorobenzene (Surr)

BFB RT Limit = ± 0.03 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII  
GC VOA ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVRT 580-340536/4 Date Analyzed: 10/11/2020 11:53  
 Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm)  
 Lab File ID (Standard): 101120004.D Heated Purge: (Y/N) N  
 Calibration ID: 29088

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

					BFB		
					RT #		
CONTINUING CALIBRATION SURROGATE					11.11		
UPPER LIMIT					11.14		
LOWER LIMIT					11.08		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID				
CCVRT 580-340536/4		10/11/2020 11:53	101120004.D	11.11			
MB 580-340534/1-A		10/11/2020 12:18	101120005.D	11.11			
LCS 580-340534/2-A		10/11/2020 12:42	101120006.D	11.11			
LCSD 580-340534/3-A		10/11/2020 13:07	101120007.D	11.11			
580-98033-5	Trip-Blank-02	10/11/2020 13:32	101120008.D	11.11			
580-98033-1	AB-01B-15.5	10/11/2020 14:46	101120011.D	11.11			
580-98033-2	AB-02B-16.5	10/11/2020 15:10	101120012.D	11.14 *			
CCV 580-340536/15		10/11/2020 16:24	101120015.D	11.11			
CCV 580-340536/26		10/11/2020 20:53	101120026.D	11.11			
CCV 580-340536/30		10/11/2020 22:31	101120030.D	11.11			
CCV 580-340536/41		10/12/2020 03:00	101120041.D	11.11			
CCV 580-340536/52		10/12/2020 07:31	101120052.D	11.11			
CCV 580-340536/59		10/12/2020 10:23	101120059.D	11.11			
580-98033-4	AB-04B-16.5	10/12/2020 11:13	101120061.D	11.11			
580-98033-3	AB-03B-16.5	10/12/2020 11:37	101120062.D	11.13			
CCV 580-340536/63		10/12/2020 12:02	101120063.D	11.11			

BFB = 4-Bromofluorobenzene (Surr)

BFB RT Limit = ± 0.03 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-01B-15.5 Lab Sample ID: 580-98033-1  
 Matrix: Solid Lab File ID: 101120011.D  
 Analysis Method: NWTPH-Gx Date Collected: 10/05/2020 12:05  
 Sample wt/vol: 11.845(g) Date Analyzed: 10/11/2020 14:46  
 Soil Aliquot Vol: 1.075 (mL) Dilution Factor: 1  
 Soil Extract Vol.: 10 (mL) GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: 22.2 Level: (low/med) Medium  
 Analysis Batch No.: 340536 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
STL00228	Gasoline	ND		6.9	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120011.D  
 Lims ID: 580-98033-C-1-A  
 Client ID: AB-01B-15.5  
 Sample Type: Client  
 Inject. Date: 11-Oct-2020 14:46:30 ALS Bottle#: 10 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 580-98033-C-1-A  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:20:27 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:31:47

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Flags
6 Toluene	9.060	9.062	-0.002	6088	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.110	11.108	0.002	26794958	166.6	
A 11 Gasoline	11.949	(8.984-14.920)		4192664	3.35	
14 1-Methylnaphthalene	14.815	14.818	-0.003	12695	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120011.D

Injection Date: 11-Oct-2020 14:46:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: 580-98033-C-1-A

Lab Sample ID: 580-98033-1

Worklist Smp#: 11

Client ID: AB-01B-15.5

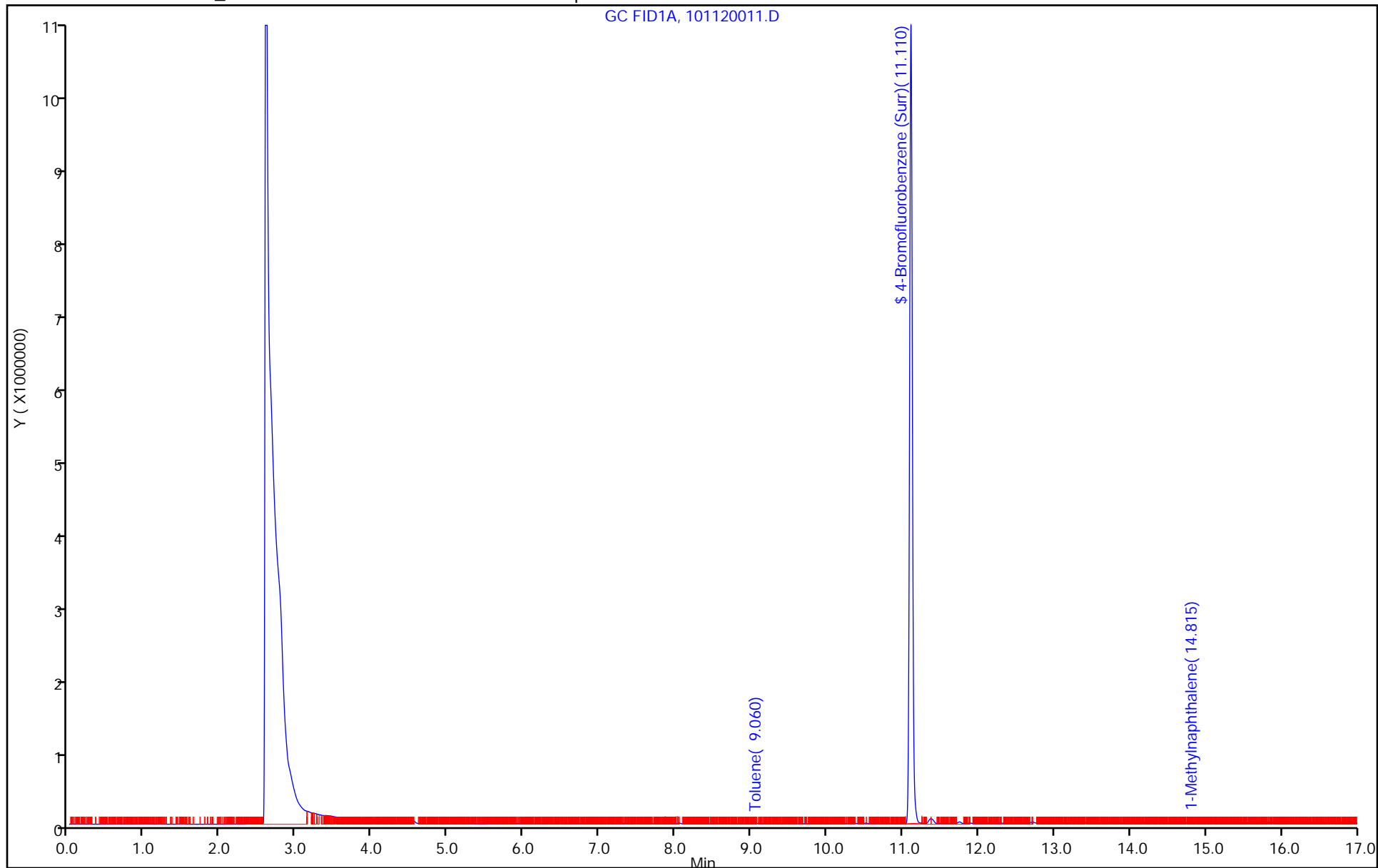
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 10

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120011.D  
 Lims ID: 580-98033-C-1-A  
 Client ID: AB-01B-15.5  
 Sample Type: Client  
 Inject. Date: 11-Oct-2020 14:46:30 ALS Bottle#: 10 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 580-98033-C-1-A  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:20:27 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:31:47

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Trifluorotoluene (Surr)	0.0	0	0.00
\$ 9 4-Bromofluorobenzene (Surr)	200.0	166.6	83.30

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120011.D

Injection Date: 11-Oct-2020 14:46:30

Instrument ID: SEA006

Lims ID: 580-98033-C-1-A

Lab Sample ID: 580-98033-1

Client ID: AB-01B-15.5

Operator ID: DCV

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

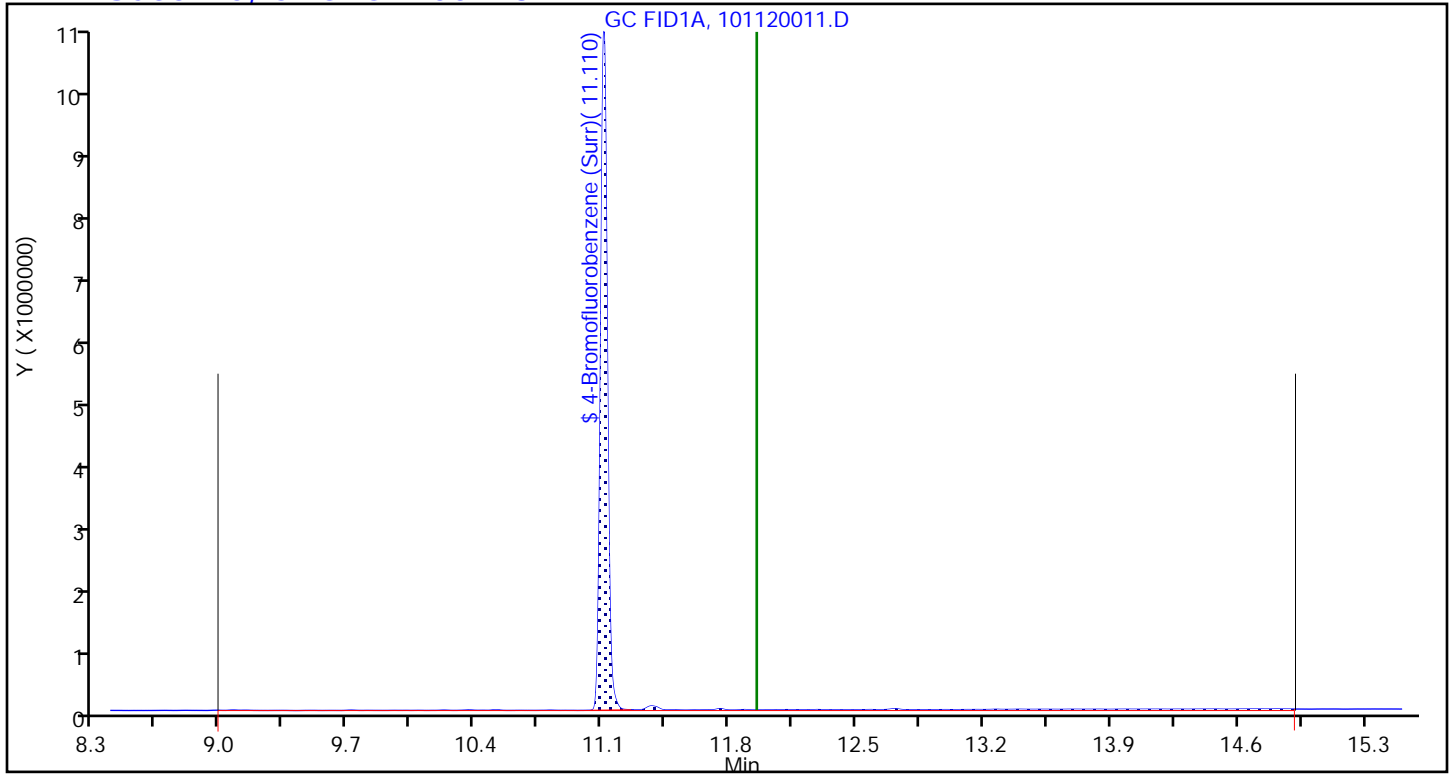
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

A 11 Gasoline, CAS: STL00228



FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-02B-16.5 Lab Sample ID: 580-98033-2  
 Matrix: Solid Lab File ID: 101120012.D  
 Analysis Method: NWTPH-Gx Date Collected: 10/05/2020 12:35  
 Sample wt/vol: 10.784(g) Date Analyzed: 10/11/2020 15:10  
 Soil Aliquot Vol: 1.075 (mL) Dilution Factor: 1  
 Soil Extract Vol.: 10 (mL) GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: 22.7 Level: (low/med) Medium  
 Analysis Batch No.: 340536 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
STL00228	Gasoline	1400		7.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	483	X	50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120012.D  
 Lims ID: 580-98033-C-2-A  
 Client ID: AB-02B-16.5  
 Sample Type: Client  
 Inject. Date: 11-Oct-2020 15:10:30 ALS Bottle#: 11 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 580-98033-C-2-A  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:20:27 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:33:49

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Flags
6 Toluene	9.058	9.062	-0.004	2273	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.143	11.108	0.035	155467116	966.6	
A 11 Gasoline	11.949	(8.984-14.920)		2686692499	23471	
14 1-Methylnaphthalene	14.817	14.818	-0.001	5906	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

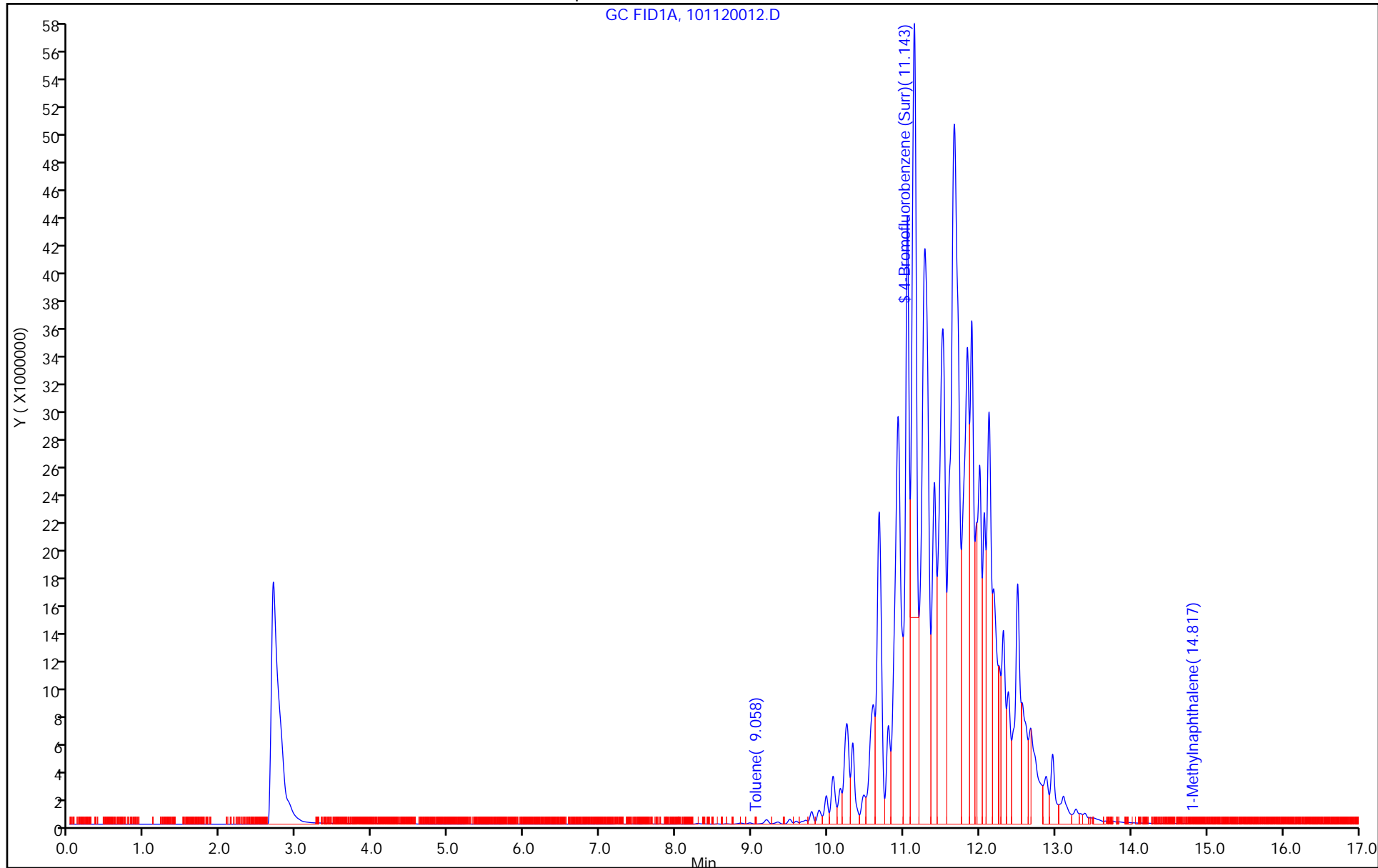
Reagents:

BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120012.D  
Injection Date: 11-Oct-2020 15:10:30 Instrument ID: SEA006  
Lims ID: 580-98033-C-2-A Lab Sample ID: 580-98033-2  
Client ID: AB-02B-16.5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: GRO\_SEA006 Limit Group: NWT PH-GX

Operator ID: DCV  
Worklist Smp#: 12  
ALS Bottle#: 11



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120012.D  
 Lims ID: 580-98033-C-2-A  
 Client ID: AB-02B-16.5  
 Sample Type: Client  
 Inject. Date: 11-Oct-2020 15:10:30 ALS Bottle#: 11 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 580-98033-C-2-A  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:20:27 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:33:49

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Trifluorotoluene (Surr)	0.0	0	0.00
\$ 9 4-Bromofluorobenzene (Surr)	200.0	966.6	483.30

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120012.D

Injection Date: 11-Oct-2020 15:10:30

Instrument ID: SEA006

Lims ID: 580-98033-C-2-A

Lab Sample ID: 580-98033-2

Client ID: AB-02B-16.5

Operator ID: DCV

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

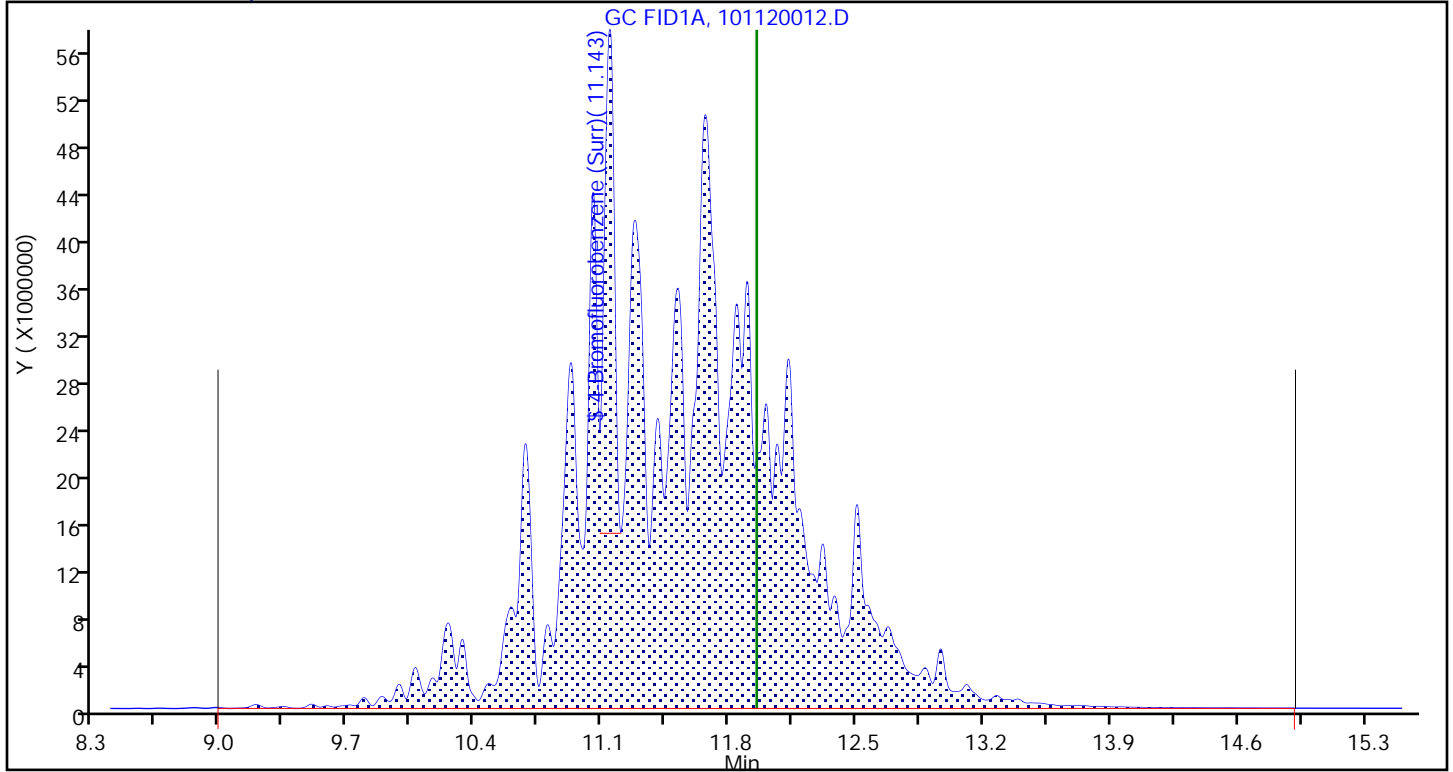
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**





FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-03B-16.5 Lab Sample ID: 580-98033-3  
 Matrix: Solid Lab File ID: 101120062.D  
 Analysis Method: NWTPH-Gx Date Collected: 10/05/2020 13:00  
 Sample wt/vol: 12.777(g) Date Analyzed: 10/12/2020 11:37  
 Soil Aliquot Vol: 0.5 (mL) Dilution Factor: 1  
 Soil Extract Vol.: 10 (mL) GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: 23.2 Level: (low/med) Medium  
 Analysis Batch No.: 340536 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
STL00228	Gasoline	1700		14

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	265	X	50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120062.D  
 Lims ID: 580-98033-C-3-A  
 Client ID: AB-03B-16.5  
 Sample Type: Client  
 Inject. Date: 12-Oct-2020 11:37:30 ALS Bottle#: 61 Worklist Smp#: 62  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 033-3 500UL  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 14:27:23 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: mckelljs Date: 12-Oct-2020 14:29:57

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Flags
6 Toluene	9.067	9.062	0.005	1438	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.129	11.108	0.021	85354815	530.7	
A 11 Gasoline	11.952	(8.984-14.920)		1678642572	14652	
14 1-Methylnaphthalene	14.820	14.818	0.002	16626	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120062.D

Injection Date: 12-Oct-2020 11:37:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: 580-98033-C-3-A

Lab Sample ID: 580-98033-3

Worklist Smp#: 62

Client ID: AB-03B-16.5

Purge Vol: 5.000 mL

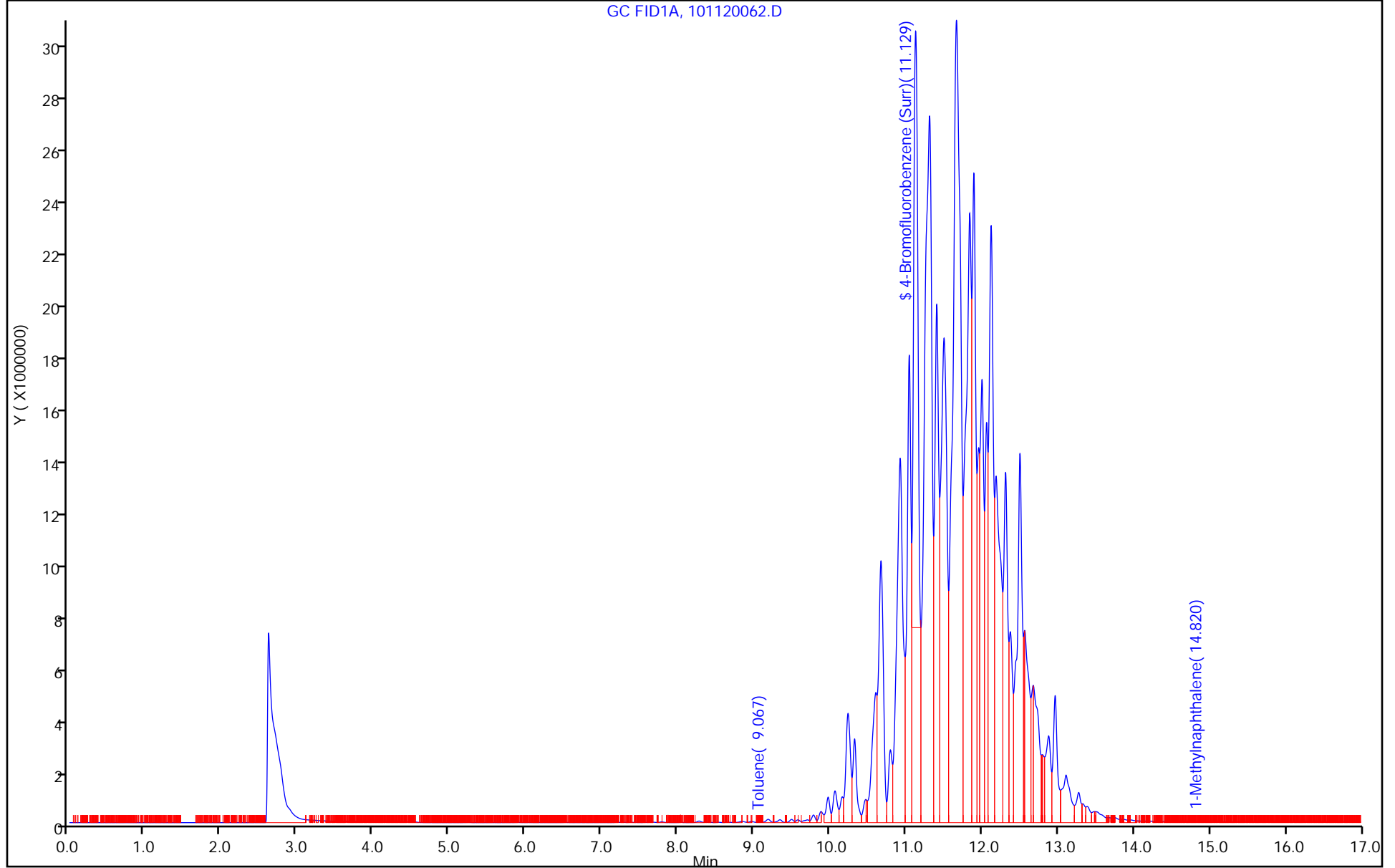
Dil. Factor: 1.0000

ALS Bottle#: 61

Method: GRO\_SEA006

Limit Group: NWT PH-GX

GC FID1A, 101120062.D



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120062.D  
 Lims ID: 580-98033-C-3-A  
 Client ID: AB-03B-16.5  
 Sample Type: Client  
 Inject. Date: 12-Oct-2020 11:37:30 ALS Bottle#: 61 Worklist Smp#: 62  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 033-3 500UL  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 14:27:23 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: mckelljs Date: 12-Oct-2020 14:29:57

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Trifluorotoluene (Surr)	0.0	0	0.00
\$ 9 4-Bromofluorobenzene (Surr)	200.0	530.7	265.34

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120062.D

Injection Date: 12-Oct-2020 11:37:30

Instrument ID: SEA006

Lims ID: 580-98033-C-3-A

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: DCV

ALS Bottle#: 61

Worklist Smp#: 62

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

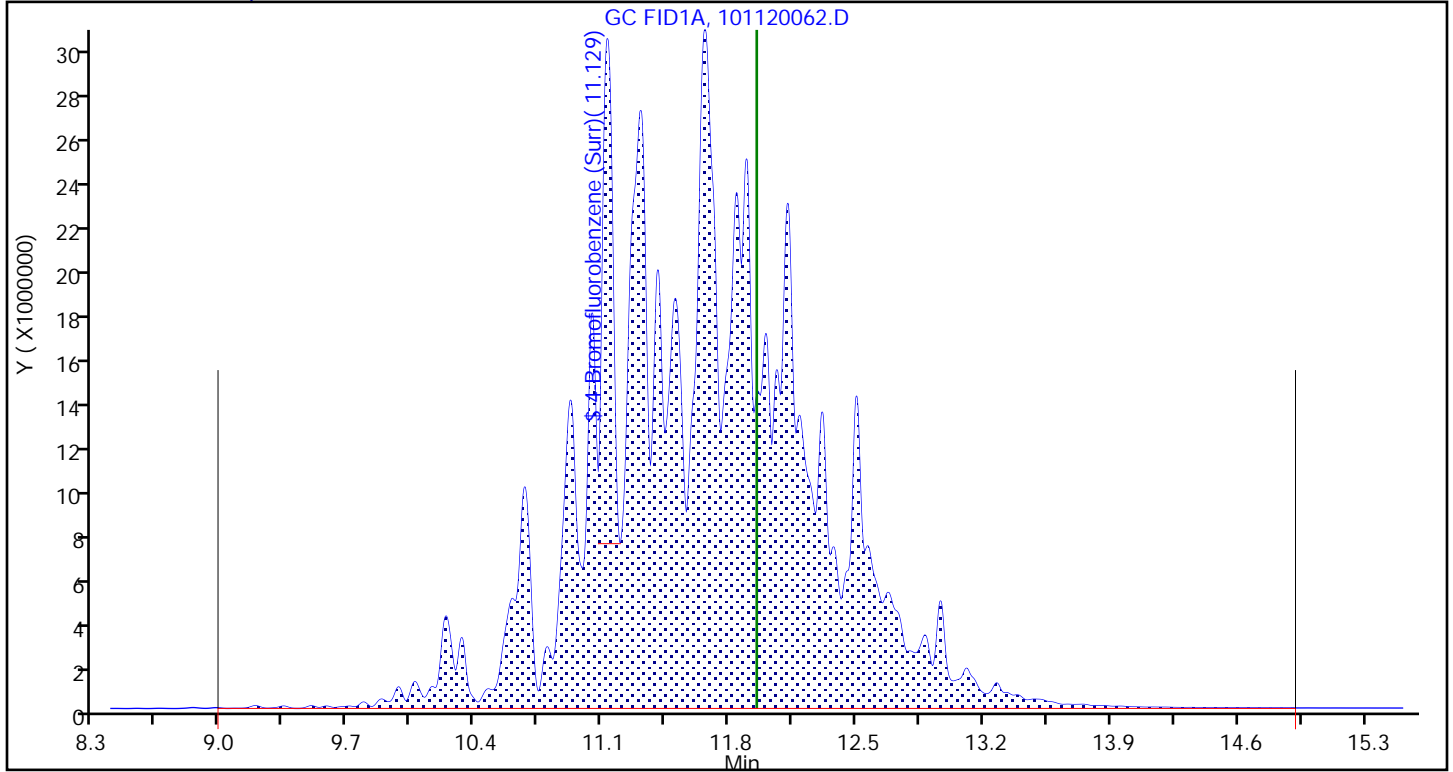
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-04B-16.5 Lab Sample ID: 580-98033-4  
 Matrix: Solid Lab File ID: 101120061.D  
 Analysis Method: NWTPH-Gx Date Collected: 10/05/2020 13:40  
 Sample wt/vol: 12.209(g) Date Analyzed: 10/12/2020 11:13  
 Soil Aliquot Vol: 1.075 (mL) Dilution Factor: 1  
 Soil Extract Vol.: 10 (mL) GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: 24.3 Level: (low/med) Medium  
 Analysis Batch No.: 340536 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
STL00228	Gasoline	8.5		7.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120061.D  
 Lims ID: 580-98033-C-4-A  
 Client ID: AB-04B-16.5  
 Sample Type: Client  
 Inject. Date: 12-Oct-2020 11:13:30 ALS Bottle#: 60 Worklist Smp#: 61  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 033-4  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 14:27:23 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: mckelljs Date: 12-Oct-2020 14:29:52

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Flags
6 Toluene	9.062	9.062	0.000	5066	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.110	11.108	0.002	27297748	169.7	
A 11 Gasoline	11.952	(8.984-14.920)		21031596	150.7	
14 1-Methylnaphthalene	14.817	14.818	-0.001	14722	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

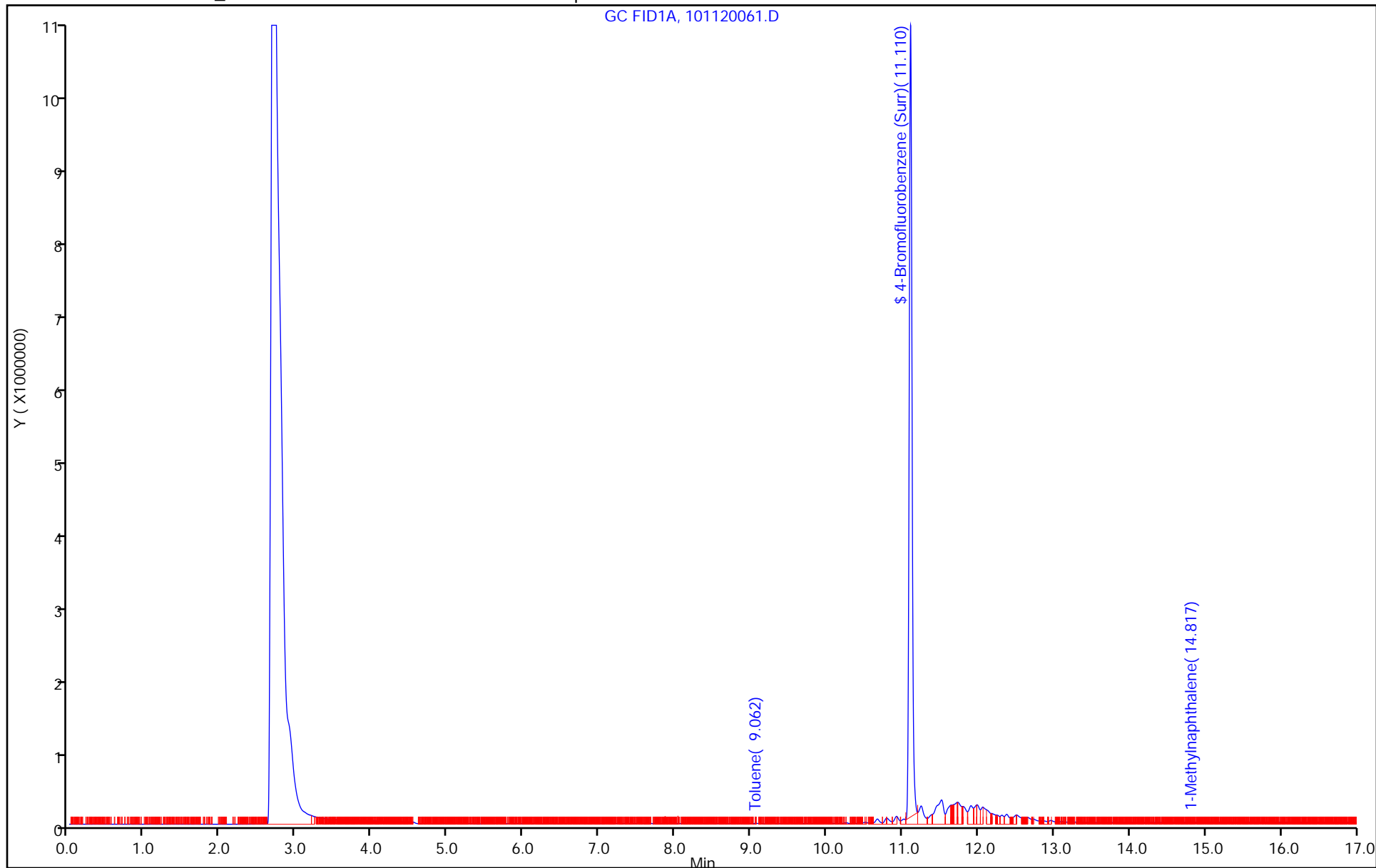
Reagents:

BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120061.D  
Injection Date: 12-Oct-2020 11:13:30 Instrument ID: SEA006  
Lims ID: 580-98033-C-4-A Lab Sample ID: 580-98033-4  
Client ID: AB-04B-16.5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: GRO\_SEA006 Limit Group: NWTPH-GX

Operator ID: DCV  
Worklist Smp#: 61  
ALS Bottle#: 60





Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120061.D  
 Lims ID: 580-98033-C-4-A  
 Client ID: AB-04B-16.5  
 Sample Type: Client  
 Inject. Date: 12-Oct-2020 11:13:30 ALS Bottle#: 60 Worklist Smp#: 61  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 033-4  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 14:27:23 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: mckelljs Date: 12-Oct-2020 14:29:52

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Trifluorotoluene (Surr)	0.0	0	0.00
\$ 9 4-Bromofluorobenzene (Surr)	200.0	169.7	84.86

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120061.D

Injection Date: 12-Oct-2020 11:13:30

Instrument ID: SEA006

Lims ID: 580-98033-C-4-A

Lab Sample ID: 580-98033-4

Client ID: AB-04B-16.5

Operator ID: DCV

ALS Bottle#: 60

Worklist Smp#: 61

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

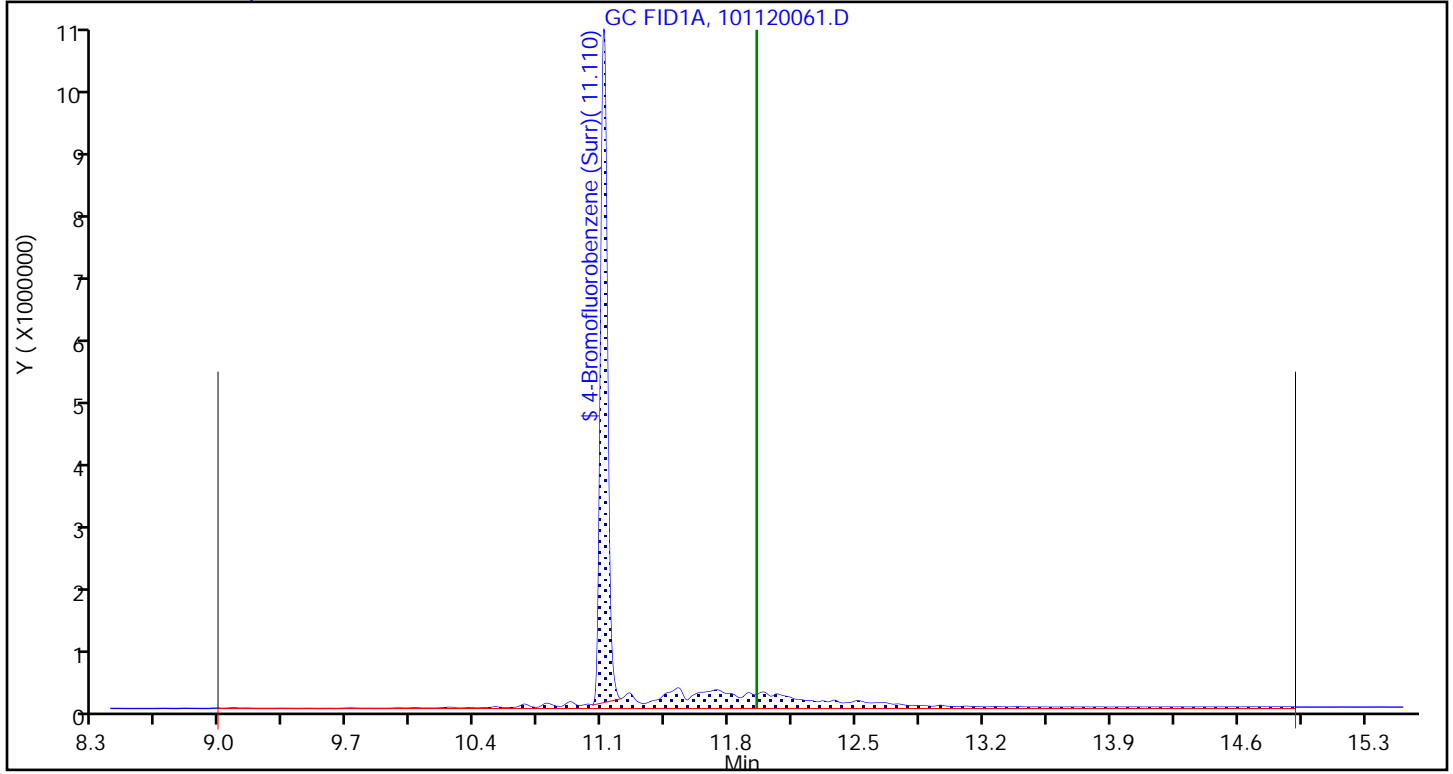
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Trip-Blank-02 Lab Sample ID: 580-98033-5  
 Matrix: Solid Lab File ID: 101120008.D  
 Analysis Method: NWTPH-Gx Date Collected: 10/05/2020 12:00  
 Sample wt/vol: 10(g) Date Analyzed: 10/11/2020 13:32  
 Soil Aliquot Vol: 1.075 (mL) Dilution Factor: 1  
 Soil Extract Vol.: 10 (mL) GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Medium  
 Analysis Batch No.: 340536 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
STL00228	Gasoline	ND		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120008.D  
 Lims ID: 580-98033-B-5-A  
 Client ID: Trip-Blank-02  
 Sample Type: Client  
 Inject. Date: 11-Oct-2020 13:32:30 ALS Bottle#: 7 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 580-98033-B-5-A  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:20:27 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:30:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Flags
6 Toluene	9.070	9.062	0.008	145245	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.110	11.108	0.002	26654380	165.7	
A 11 Gasoline	11.949	(8.984-14.920)		4746338	8.19	
14 1-Methylnaphthalene	14.819	14.818	0.001	15601	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120008.D

Injection Date: 11-Oct-2020 13:32:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: 580-98033-B-5-A

Lab Sample ID: 580-98033-5

Worklist Smp#: 8

Client ID: Trip-Blank-02

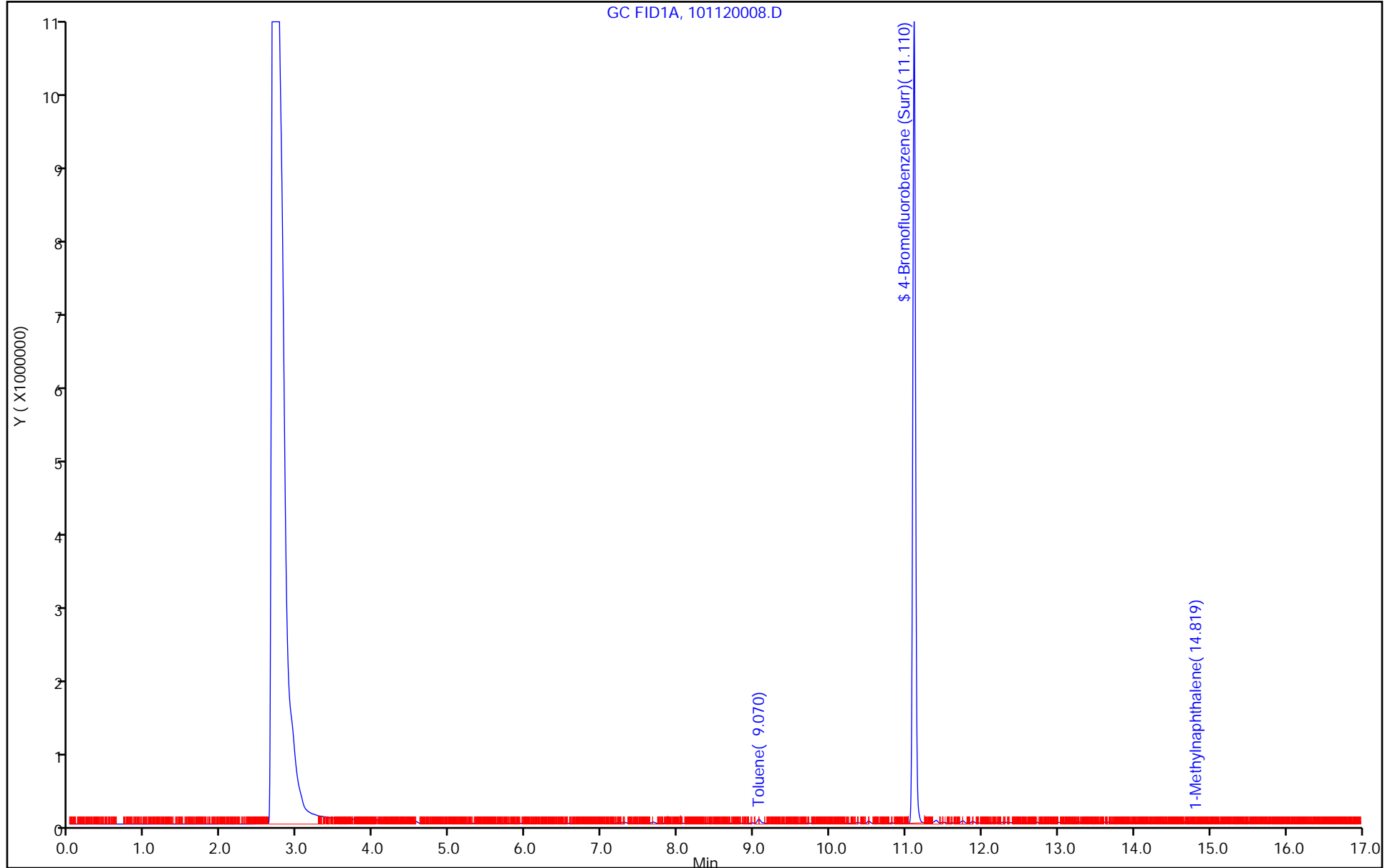
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120008.D  
 Lims ID: 580-98033-B-5-A  
 Client ID: Trip-Blank-02  
 Sample Type: Client  
 Inject. Date: 11-Oct-2020 13:32:30 ALS Bottle#: 7 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 580-98033-B-5-A  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:20:27 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:30:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Trifluorotoluene (Surr)	0.0	0	0.00
\$ 9 4-Bromofluorobenzene (Surr)	200.0	165.7	82.86

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120008.D

Injection Date: 11-Oct-2020 13:32:30

Instrument ID: SEA006

Lims ID: 580-98033-B-5-A

Lab Sample ID: 580-98033-5

Client ID: Trip-Blank-02

Operator ID: DCV

ALS Bottle#: 7 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

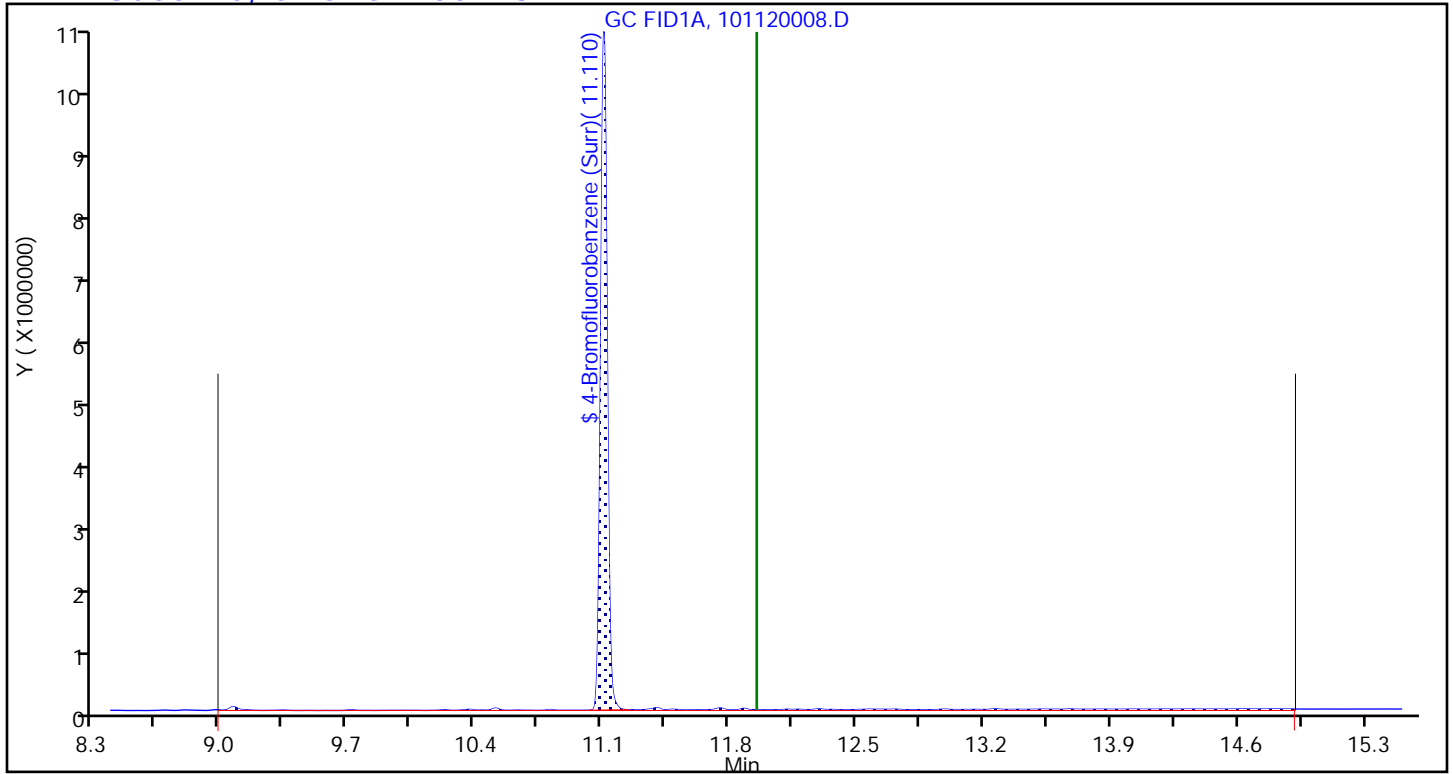
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



FORM VI  
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 325923

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2020 19:52 Calibration End Date: 03/31/2020 23:05 Calibration ID: 29088

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-325923/16	03310017.D
Level 2	IC 580-325923/15	03310016.D
Level 3	IC 580-325923/14	03310015.D
Level 4	IC 580-325923/13	03310014.D
Level 5	ICRT 580-325923/12	03310013.D
Level 6	IC 580-325923/11	03310012.D
Level 7	IC 580-325923/10	03310011.D
Level 8	IC 580-325923/9	03310010.D
Level 9	IC 580-325923/8	03310009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Gasoline	11.967	11.967	11.967	11.967	11.967	11.967	11.967	11.967	11.967		9.002 - 14.932	11.967
Trifluorotoluene (Surr)	8.054	8.054	8.056	8.053	8.057	8.052	8.056	+++++	+++++		7.953 - 8.153	8.055
4-Bromofluorobenzene (Surr)	11.122	11.120	11.122	11.121	11.122	11.121	11.122	+++++	+++++		11.021 - 11.221	11.121



FORM VI  
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 325923

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2020 19:52 Calibration End Date: 03/31/2020 23:05 Calibration ID: 29088

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-325923/16	03310017.D
Level 2	IC 580-325923/15	03310016.D
Level 3	IC 580-325923/14	03310015.D
Level 4	IC 580-325923/13	03310014.D
Level 5	ICRT 580-325923/12	03310013.D
Level 6	IC 580-325923/11	03310012.D
Level 7	IC 580-325923/10	03310011.D
Level 8	IC 580-325923/9	03310010.D
Level 9	IC 580-325923/8	03310009.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Gasoline	189565 121052 118783	160049 110725	119984 125855	110519 114723	Lin2	3809981.49	114303.944			7.0			0.9950			0.9900
Trifluorotoluene (Surr)	164868 196435 ++++	168237 190064	149468 214225	163639 ++++	Ave		178133.609			12.7		15.0				
4-Bromofluorobenzene (Surr)	150112 162818 ++++	155793 163110	150670 195689	147672 ++++	Ave		160837.691			10.3		15.0				

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

FORM VI  
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 325923

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 GC Column: RTX-VRX ID: 0.45 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2020 19:52 Calibration End Date: 03/31/2020 23:05 Calibration ID: 29088

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-325923/16	03310017.D
Level 2	IC 580-325923/15	03310016.D
Level 3	IC 580-325923/14	03310015.D
Level 4	IC 580-325923/13	03310014.D
Level 5	ICRT 580-325923/12	03310013.D
Level 6	IC 580-325923/11	03310012.D
Level 7	IC 580-325923/10	03310011.D
Level 8	IC 580-325923/9	03310010.D
Level 9	IC 580-325923/8	03310009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Gasoline	Lin2	9478233	16004942	29996023	55259398	121052180	50.0	100	250	500	1000
		553622663	1258546058	1720851210	2969562690		5000	10000	15000	25000	
Trifluorotoluene (Surr)	Ave	3296040	6726790	8964496	13085879	19635630	20.0	40.0	60.0	80.0	100.0
		28498154	42827798	++++	++++		150	200	++++	++++	
4-Bromofluorobenzene (Surr)	Ave	30022462	31158503	30133951	29534422	32563602	200	200	200	200	200
		32621942	39137885	++++	++++		200	200	++++	++++	

Curve Type Legend:

Ave = Average  
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310009.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 31-Mar-2020 19:52:30 ALS Bottle#: 9 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 25000  
 Operator ID: DCV/PRO Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 02-Apr-2020 12:57:20 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX0304

First Level Reviewer: oshaughnessyp Date: 01-Apr-2020 10:43:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.106	8.053	0.053	8875901	0.7997	49.8	
A 7 GRO	8.594	(5.189-11.998)		4039152414	NC	NC	
A 5 C6-C10	8.707	(5.823-11.590)		3630530153	NC	NC	
A 8 C6-C12	9.588	(5.823-13.353)		4292000819	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.122	11.121	0.001	52580933	200.0	326.9	
A 11 Gasoline	11.967	(9.002-14.932)		2969562690	25000	25946	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

GRO\_LCS\_00060 Amount Added: 625.00 Units: uL  
 Methanol\_00036 Amount Added: 625.00 Units: uL  
 TFT Spike\_00040 Amount Added: 0.10 Units: uL  
 BFBGRO ARCHON\_00041 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310009.D

Injection Date: 31-Mar-2020 19:52:30

Instrument ID: SEA006

Operator ID: DCV/PRO

Lims ID: IC

Worklist Smp#: 8

Client ID:

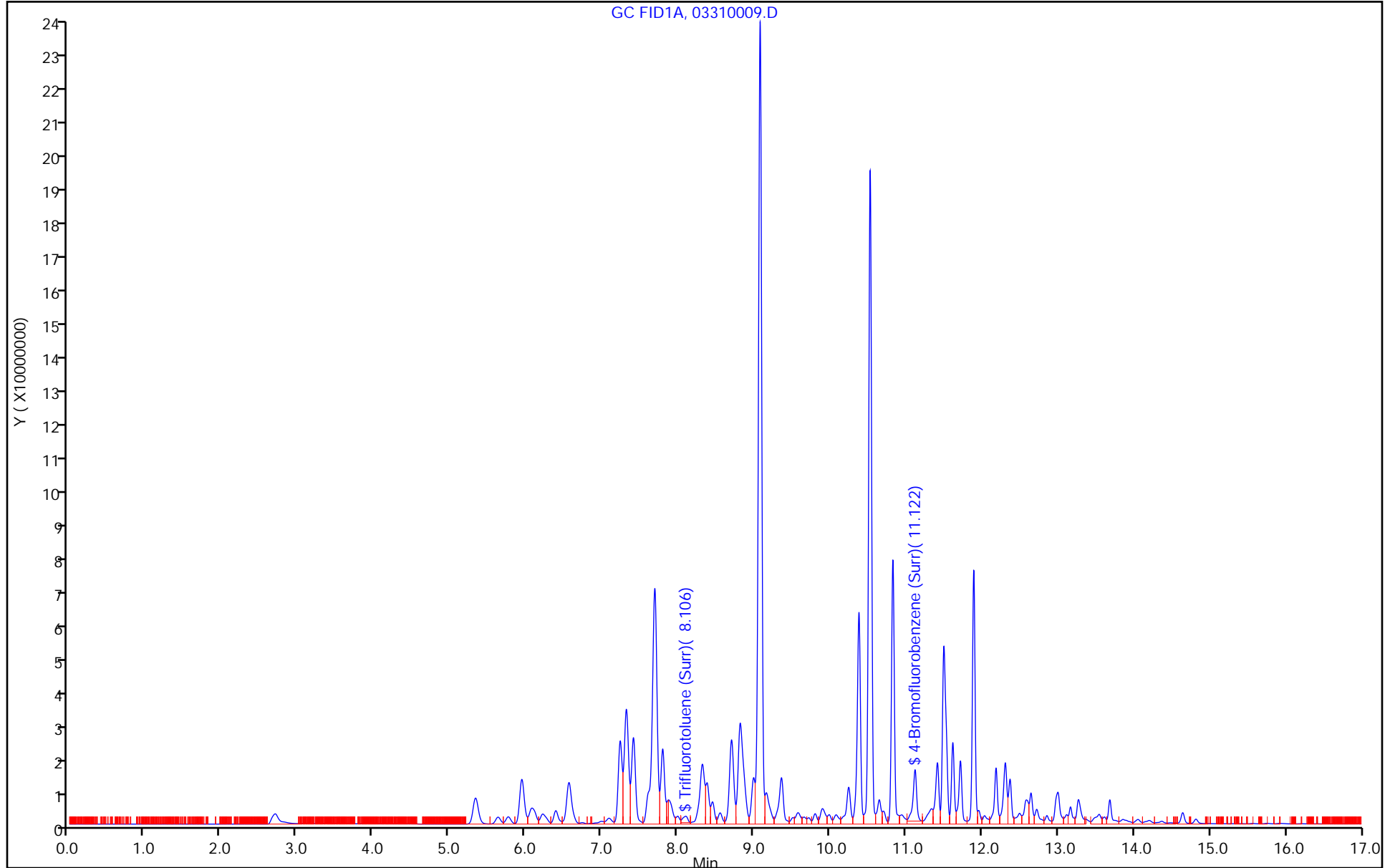
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 9

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310009.D

Injection Date: 31-Mar-2020 19:52:30

Instrument ID: SEA006

Lims ID: IC

Client ID:

Operator ID: DCV/PRO

ALS Bottle#: 9

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

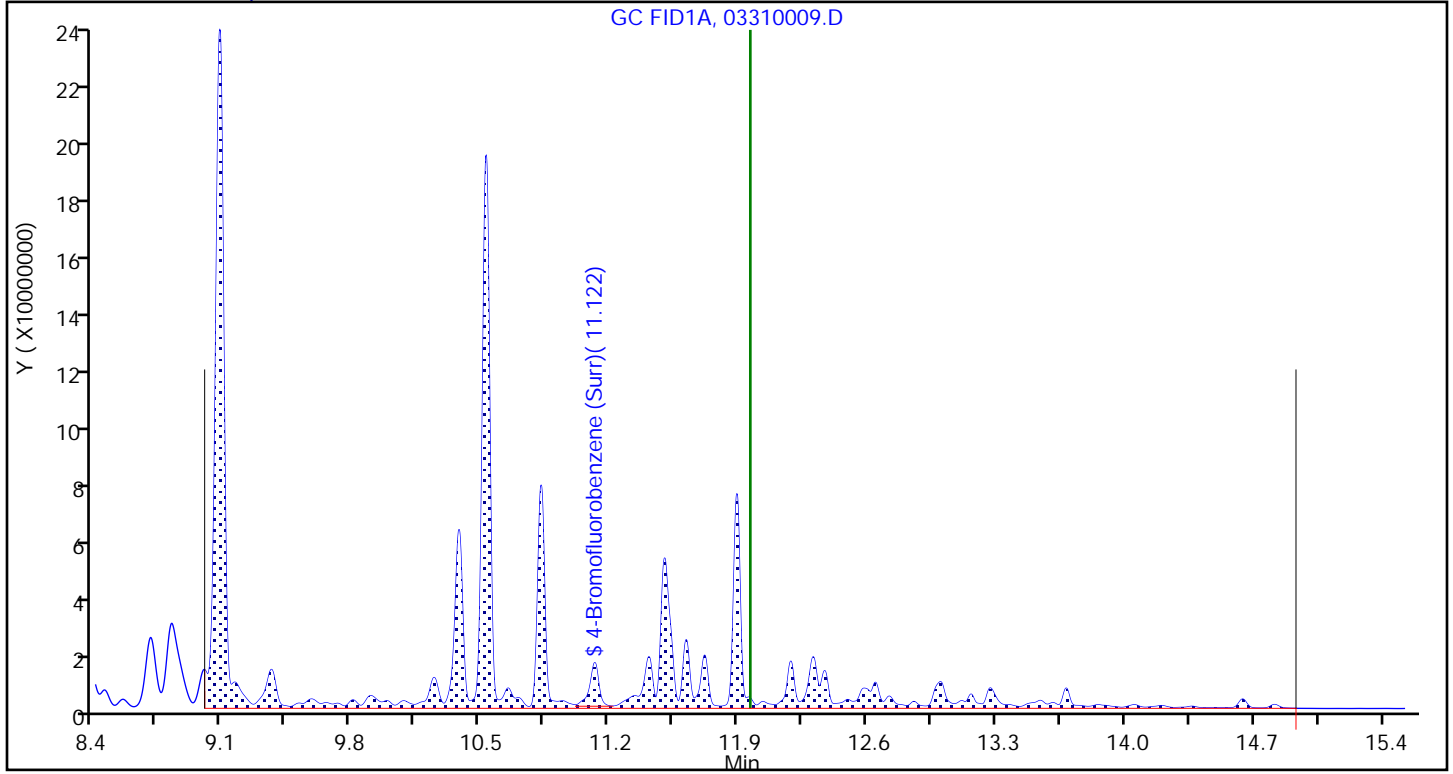
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310010.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 31-Mar-2020 20:16:30 ALS Bottle#: 10 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 15000  
 Operator ID: DCV/PRO Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 02-Apr-2020 12:57:31 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX0304

First Level Reviewer: oshaughnessyp Date: 01-Apr-2020 10:43:55

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.100	8.053	0.047	1952521	0.7997	11.0	
A 7 GRO	8.594	(5.189-11.998)		2493827513	NC	NC	
A 5 C6-C10	8.707	(5.823-11.590)		2209385955	NC	NC	
A 8 C6-C12	9.588	(5.823-13.353)		2584901833	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.120	11.121	-0.001	40583305	200.0	252.3	
A 11 Gasoline	11.967	(9.002-14.932)		1720851210	15000	15022	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

GRO\_LCS\_00060 Amount Added: 375.00 Units: uL  
 Methanol\_00036 Amount Added: 875.00 Units: uL  
 TFT Spike\_00040 Amount Added: 0.10 Units: uL  
 BFBGRO ARCHON\_00041 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310010.D

Injection Date: 31-Mar-2020 20:16:30

Instrument ID: SEA006

Operator ID: DCV/PRO

Lims ID: ic

Worklist Smp#: 9

Client ID:

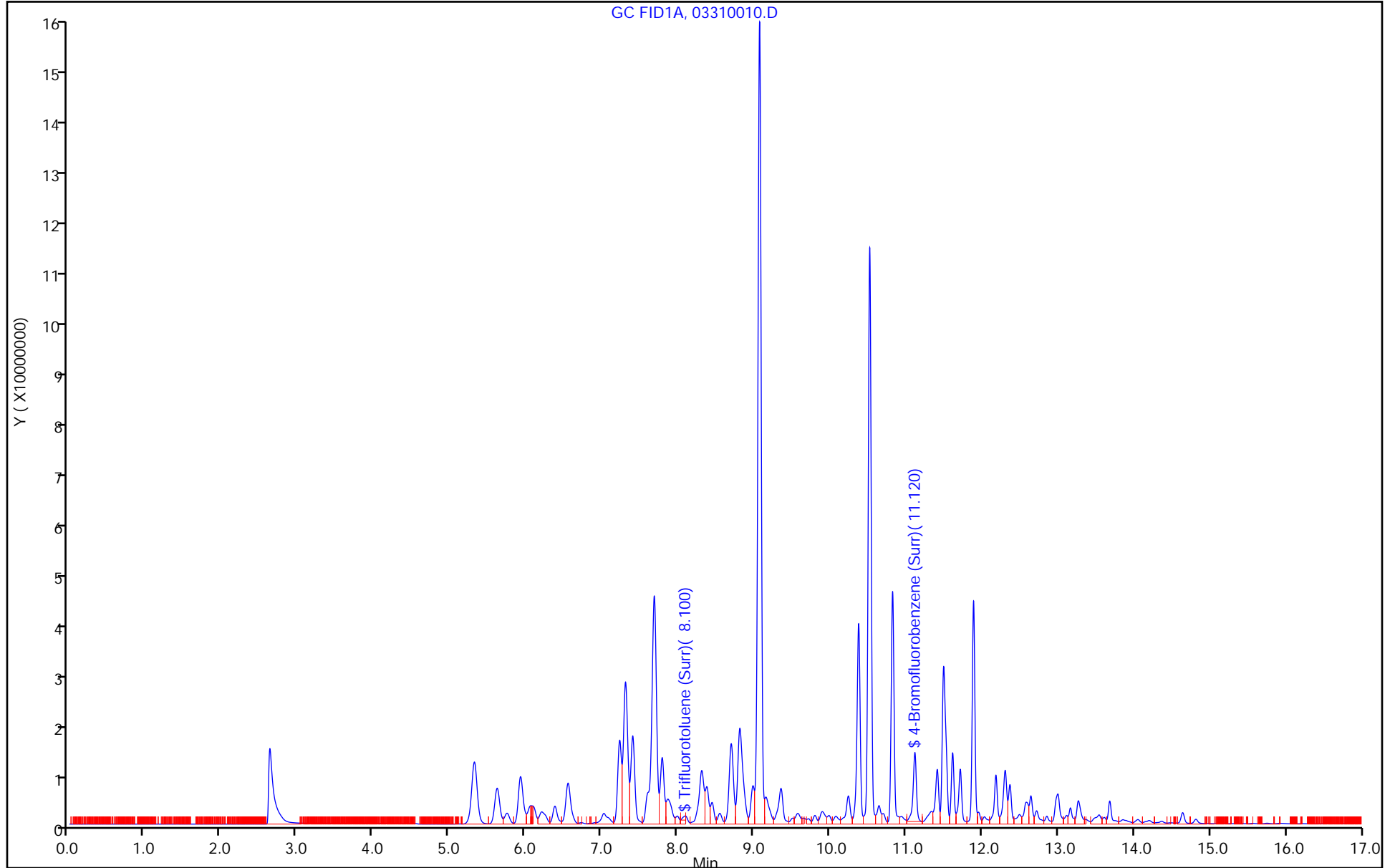
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 10

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310010.D

Injection Date: 31-Mar-2020 20:16:30

Instrument ID: SEA006

Lims ID: ic

Client ID:

Operator ID: DCV/PRO

ALS Bottle#: 10

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

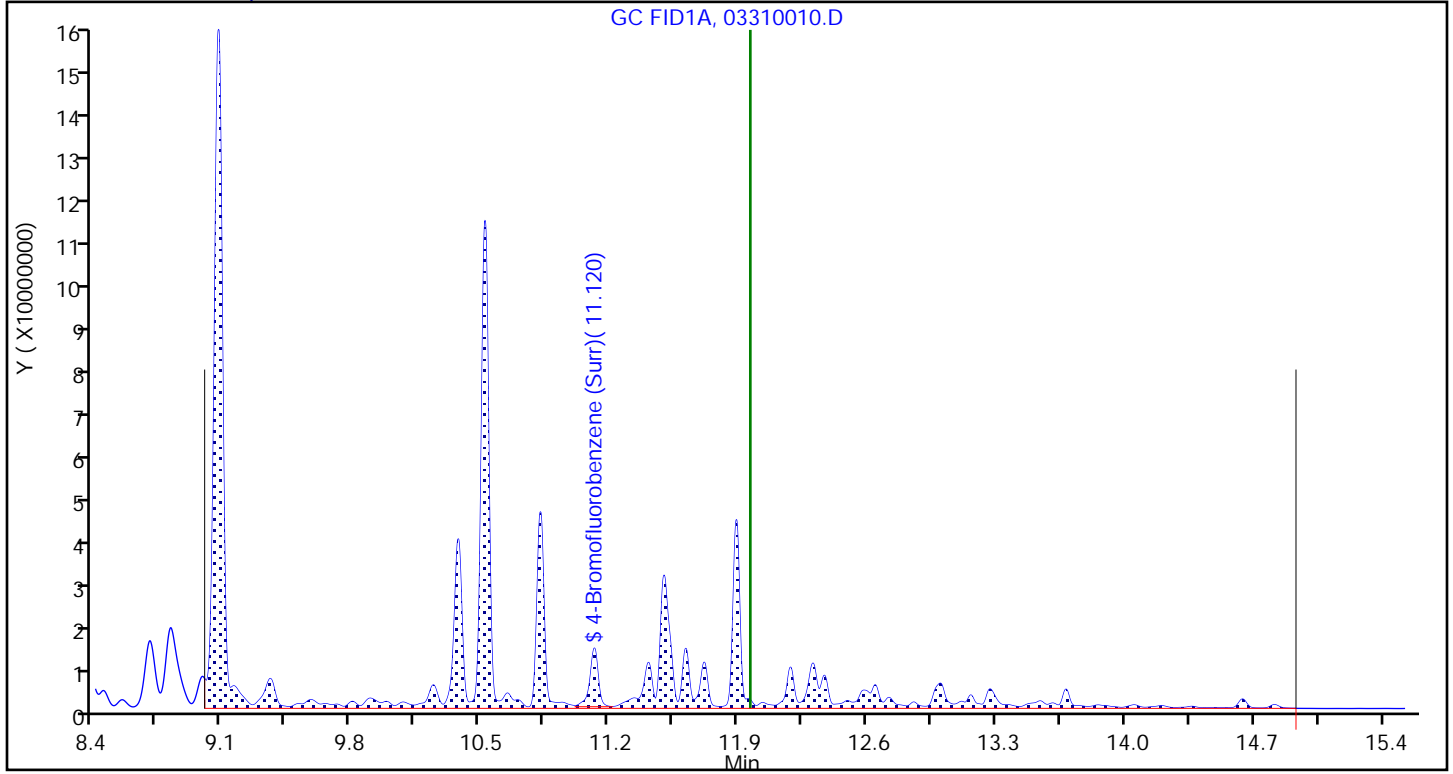
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**





Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310011.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 31-Mar-2020 20:40:30 ALS Bottle#: 11 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 10000  
 Operator ID: DCV/PRO Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 02-Apr-2020 12:57:43 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX0304

First Level Reviewer: oshaughnessyp Date: 01-Apr-2020 10:44:03

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.056	8.053	0.003	42827798	199.9	240.4	
A 7 GRO	8.594	(5.189-11.998)		1713786467	NC	NC	
A 5 C6-C10	8.707	(5.823-11.590)		1502605155	NC	NC	
A 8 C6-C12	9.588	(5.823-13.353)		1773865607	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.122	11.121	0.001	39137885	200.0	243.3	
A 11 Gasoline	11.967	(9.002-14.932)		1258546058	10000	10977	

**QC Flag Legend**

Processing Flags  
 NC - Not Calibrated

**Reagents:**

GRO\_LCS\_00060 Amount Added: 250.00 Units: uL  
 Methanol\_00036 Amount Added: 1000.00 Units: uL  
 TFT Spike\_00040 Amount Added: 25.00 Units: uL  
 BFBGRO ARCHON\_00041 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310011.D

Injection Date: 31-Mar-2020 20:40:30

Instrument ID: SEA006

Operator ID: DCV/PRO

Lims ID: ic

Worklist Smp#: 10

Client ID:

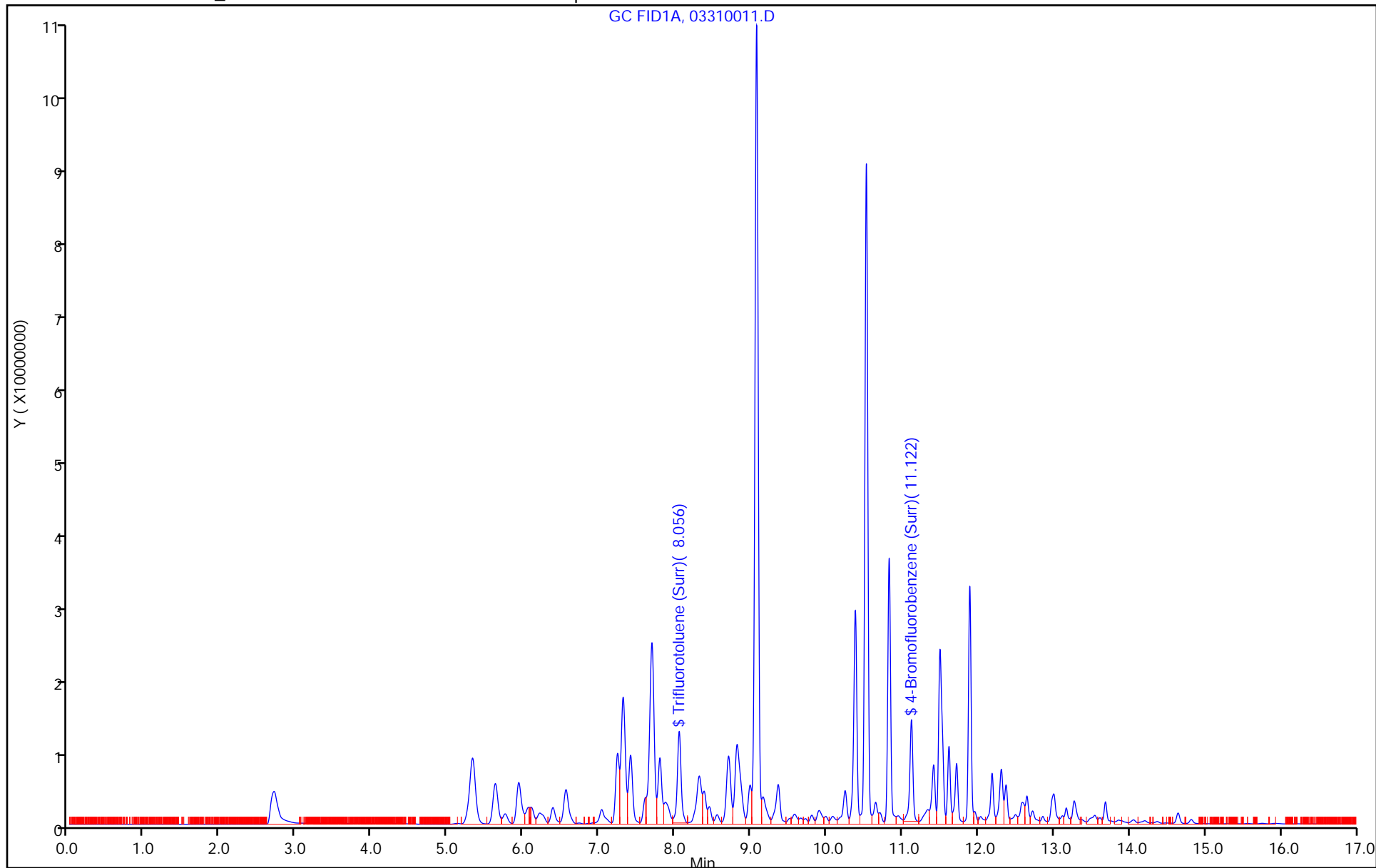
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 11

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310011.D

Injection Date: 31-Mar-2020 20:40:30

Instrument ID: SEA006

Lims ID: ic

Client ID:

Operator ID: DCV/PRO

ALS Bottle#: 11

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

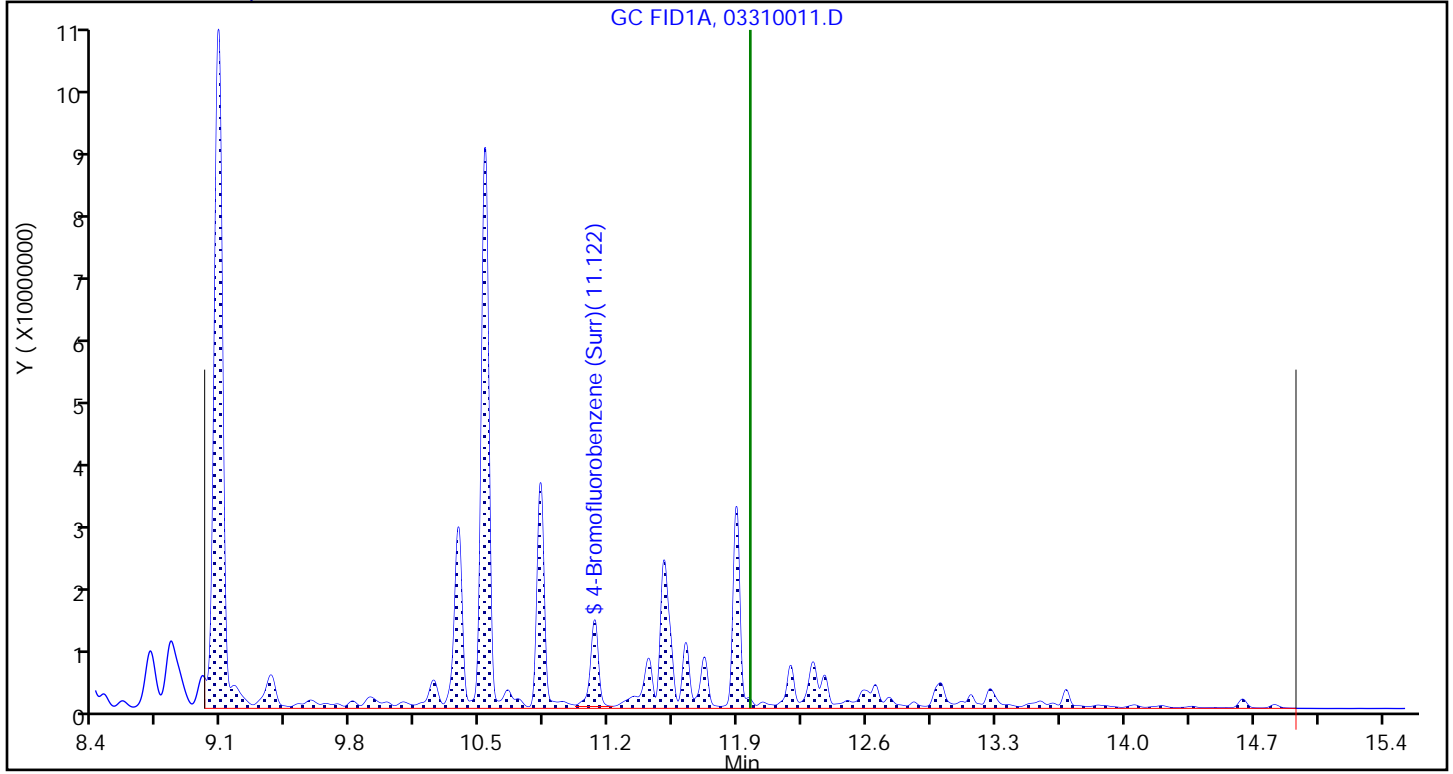
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310012.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 31-Mar-2020 21:04:30 ALS Bottle#: 12 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 5000  
 Operator ID: DCV/PRO Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 02-Apr-2020 12:57:54 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX0304

First Level Reviewer: oshaughnessyp Date: 01-Apr-2020 10:44:12

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.052	8.053	-0.001	28498154	149.9	160.0	
A 7 GRO	8.594	(5.189-11.998)		796326554	NC	NC	
A 5 C6-C10	8.707	(5.823-11.590)		686590838	NC	NC	
A 8 C6-C12	9.588	(5.823-13.353)		813558406	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.121	11.121	0.000	32621942	200.0	202.8	
A 11 Gasoline	11.967	(9.002-14.932)		553622663	5000.0	4810.1	

**QC Flag Legend**

Processing Flags  
 NC - Not Calibrated

**Reagents:**

GRO\_LCS\_00060 Amount Added: 125.00 Units: uL  
 Methanol\_00036 Amount Added: 1125.00 Units: uL  
 TFT Spike\_00040 Amount Added: 18.75 Units: uL  
 BFBGRO ARCHON\_00041 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310012.D

Injection Date: 31-Mar-2020 21:04:30

Instrument ID: SEA006

Operator ID: DCV/PRO

Lims ID: ic

Worklist Smp#: 11

Client ID:

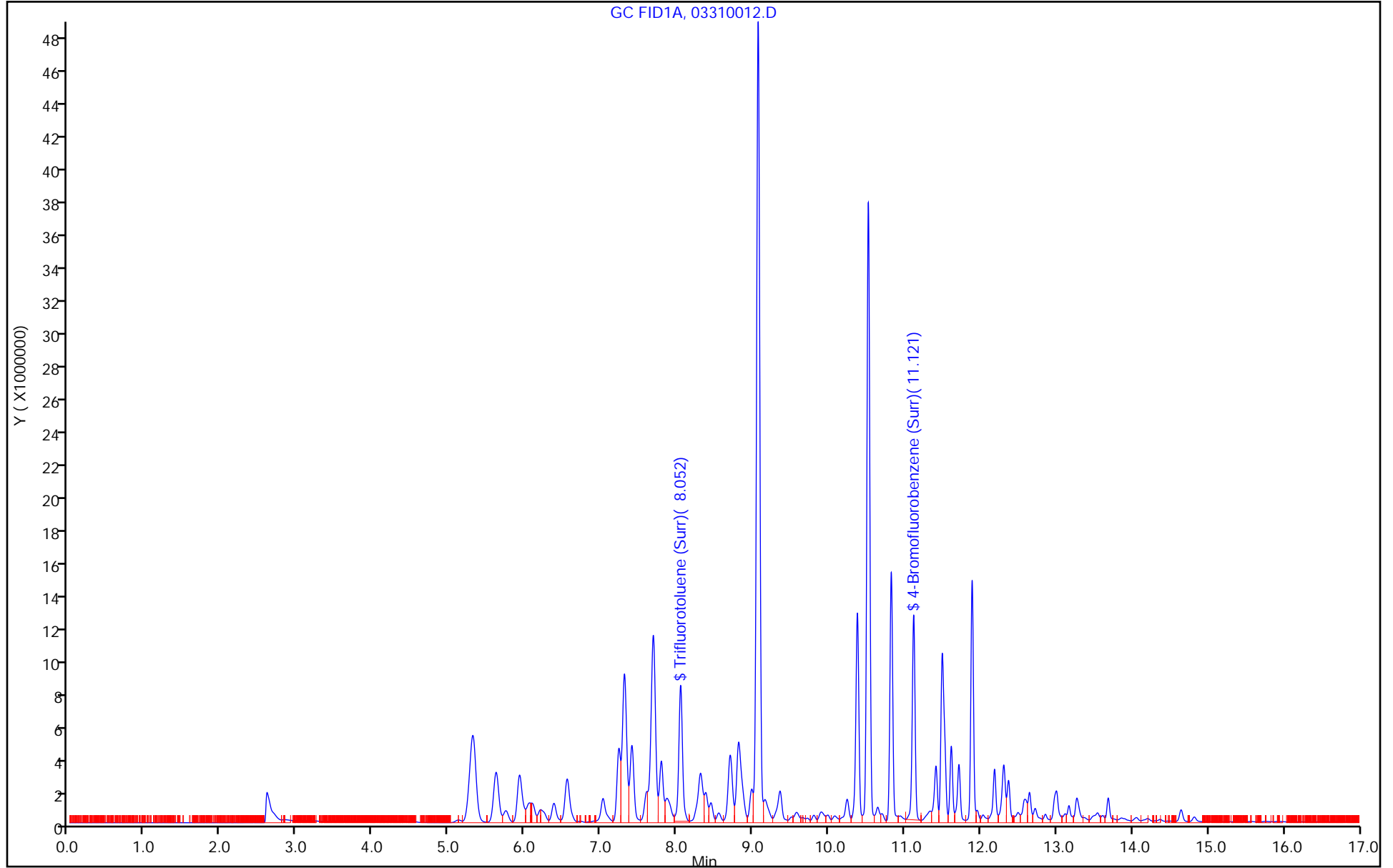
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 12

Method: GRO\_SEA006

Limit Group: NWT PH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310012.D

Injection Date: 31-Mar-2020 21:04:30

Instrument ID: SEA006

Lims ID: ic

Client ID:

Operator ID: DCV/PRO

ALS Bottle#: 12

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

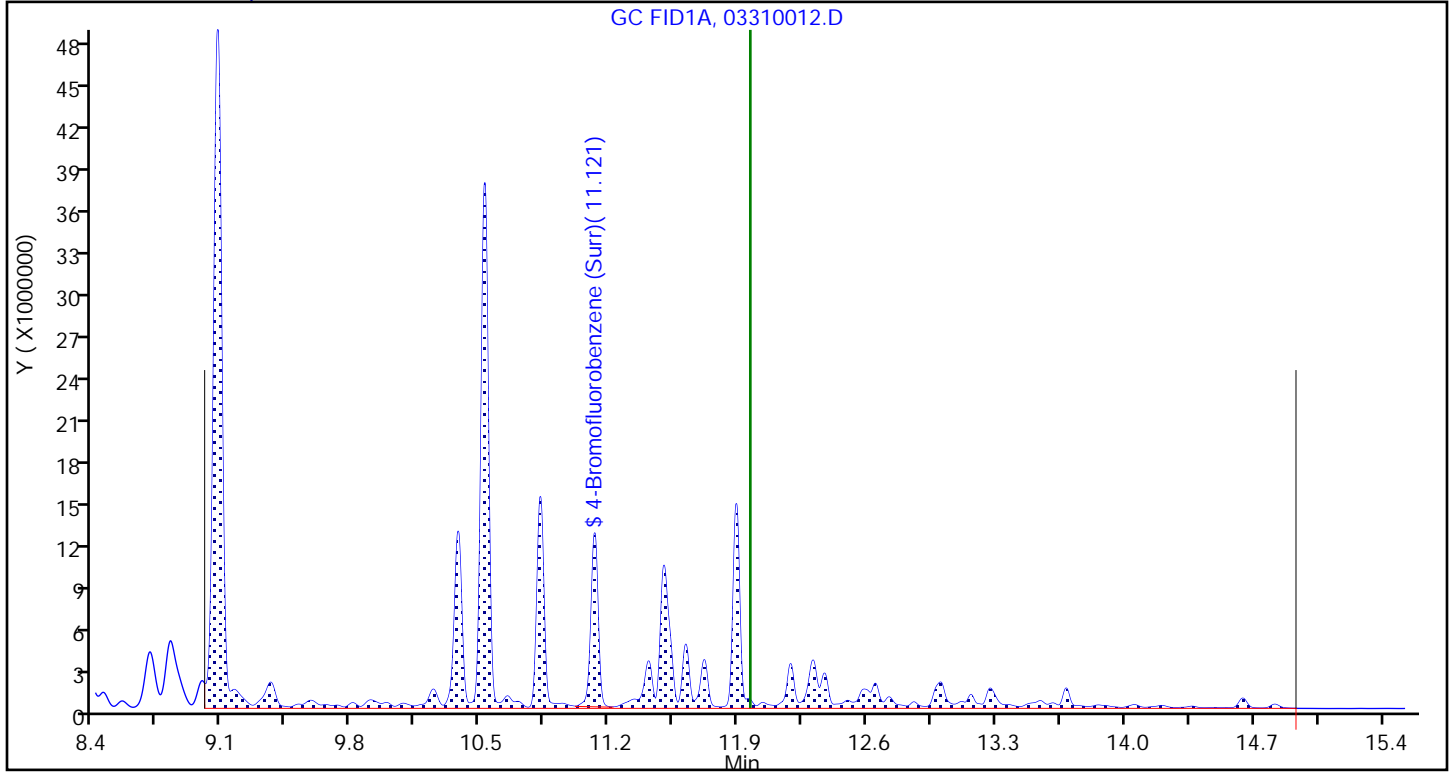
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310013.D  
 Lims ID: ICRT  
 Client ID:  
 Sample Type: ICRT Calib Level: 5  
 Inject. Date: 31-Mar-2020 21:28:30 ALS Bottle#: 13 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 1000  
 Operator ID: DCV/PRO Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 02-Apr-2020 12:58:09 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX0304

First Level Reviewer: oshaughnessyp Date: 01-Apr-2020 10:44:20

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.057	8.057	0.000	19635630	100.0	110.2	
A 7 GRO	8.594	(5.189-11.998)		177586601	NC	NC	
A 5 C6-C10	8.707	(5.823-11.590)		153044974	NC	NC	
A 8 C6-C12	9.588	(5.823-13.353)		181441890	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.122	11.122	0.000	32563602	200.0	202.5	
A 11 Gasoline	11.967	(9.002-14.932)		121052180	1000.0	1025.7	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

GRO\_LCS\_00060 Amount Added: 25.00 Units: uL  
 Methanol\_00036 Amount Added: 1225.00 Units: uL  
 TFT Spike\_00040 Amount Added: 12.50 Units: uL  
 BFBGRO ARCHON\_00041 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310013.D

Injection Date: 31-Mar-2020 21:28:30

Instrument ID: SEA006

Operator ID: DCV/PRO

Lims ID: ICRT

Worklist Smp#: 12

Client ID:

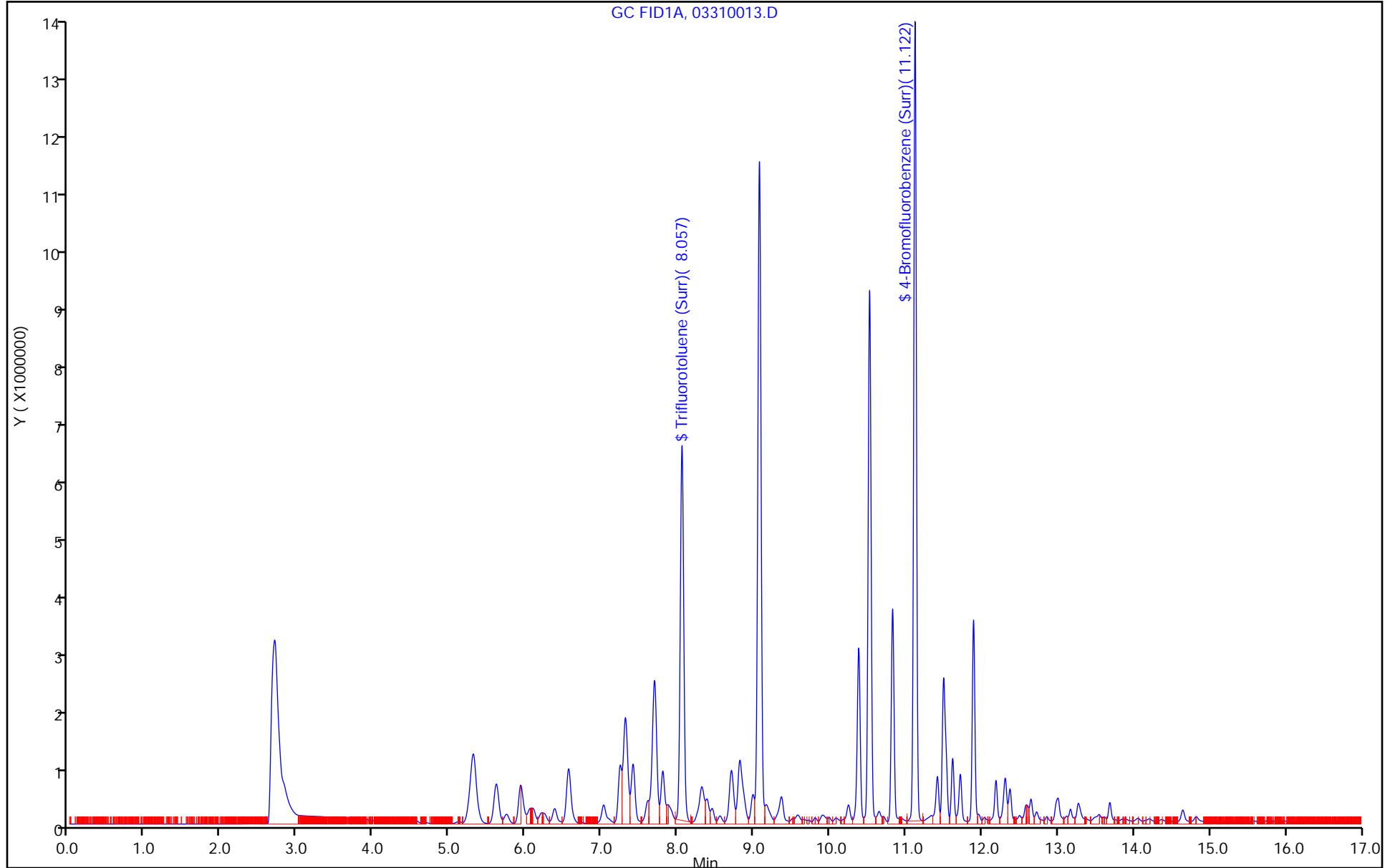
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 13

Method: GRO\_SEA006

Limit Group: NWTPH-GX





Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310013.D

Injection Date: 31-Mar-2020 21:28:30

Instrument ID: SEA006

Lims ID: ICRT

Client ID:

Operator ID: DCV/PRO

ALS Bottle#: 13

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

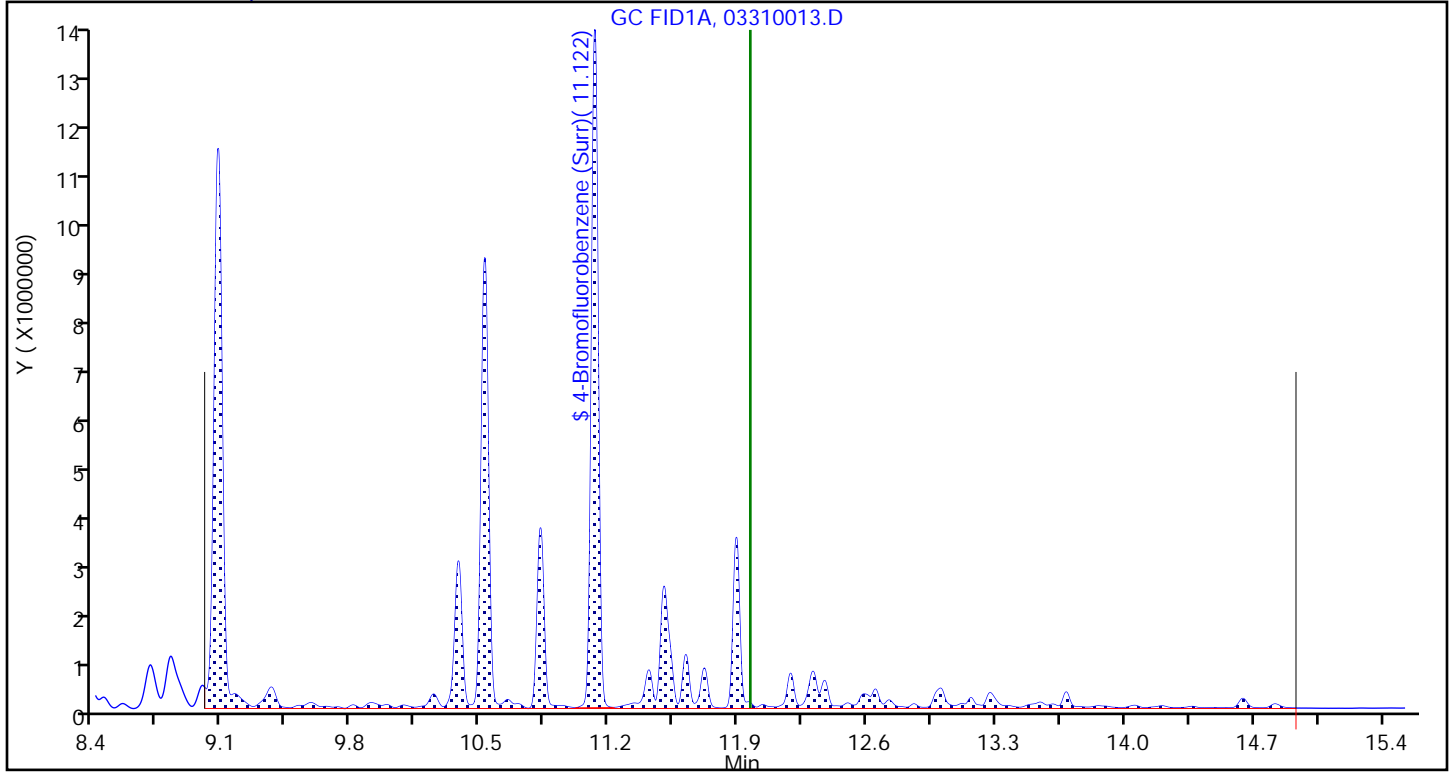
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310014.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 31-Mar-2020 21:53:30 ALS Bottle#: 14 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 500  
 Operator ID: DCV/PRO Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 02-Apr-2020 12:58:22 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX0304

First Level Reviewer: oshaughnessyp Date: 01-Apr-2020 10:44:29

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.053	8.053	0.000	13085879	80.0	73.5	
A 7 GRO	8.594	(5.189-11.998)		78262938	NC	NC	
A 5 C6-C10	8.707	(5.823-11.590)		66939665	NC	NC	
A 8 C6-C12	9.588	(5.823-13.353)		80422020	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.121	11.121	0.000	29534422	200.0	183.6	
A 11 Gasoline	11.967	(9.002-14.932)		55259398	500.0	450.1	

**QC Flag Legend**

Processing Flags  
 NC - Not Calibrated

**Reagents:**

GRO\_LCS\_00060 Amount Added: 12.50 Units: uL  
 Methanol\_00036 Amount Added: 1237.50 Units: uL  
 TFT Spike\_00040 Amount Added: 10.00 Units: uL  
 BFBGRO ARCHON\_00041 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310014.D

Injection Date: 31-Mar-2020 21:53:30

Instrument ID: SEA006

Operator ID: DCV/PRO

Lims ID: ic

Worklist Smp#: 13

Client ID:

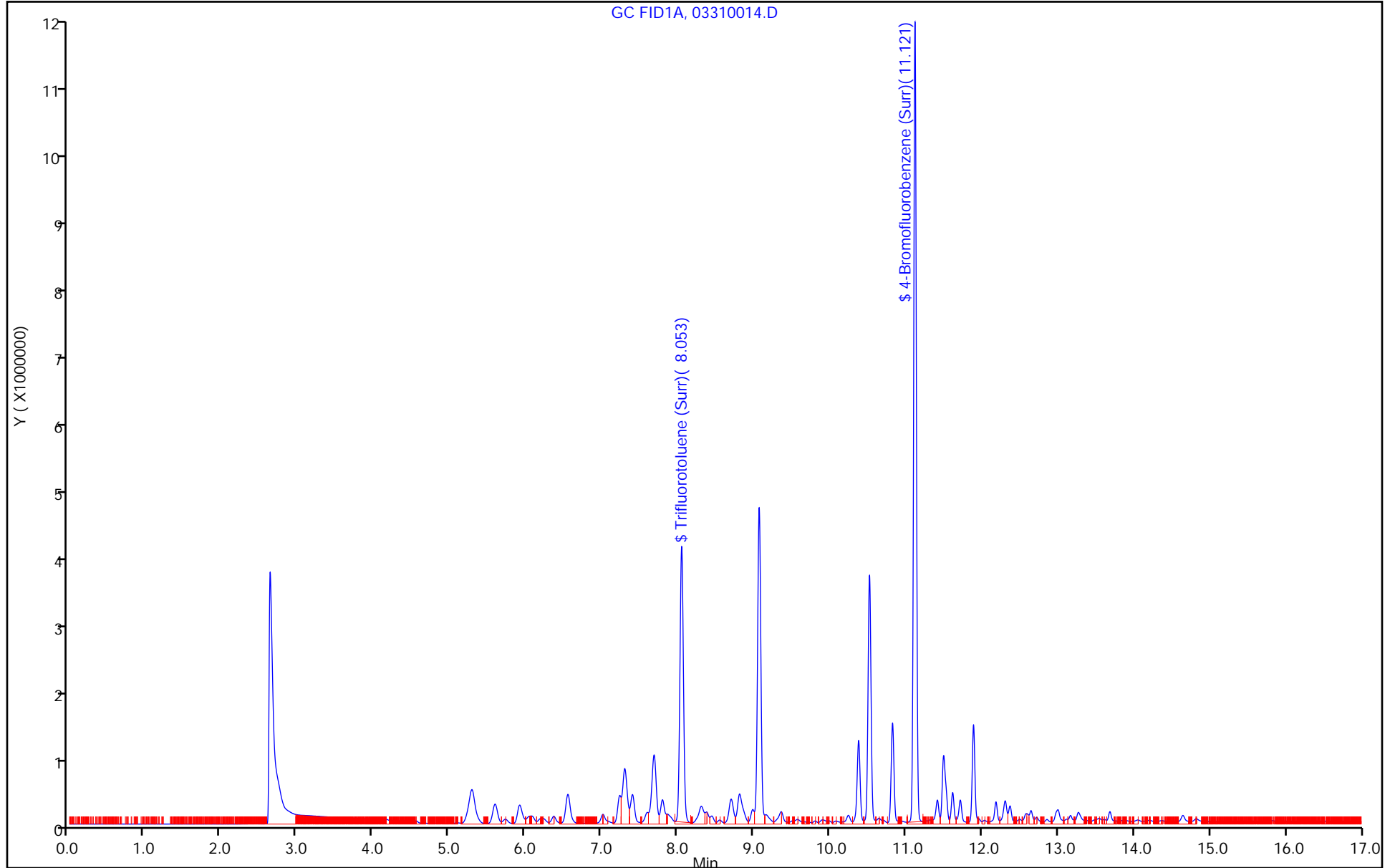
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 14

Method: GRO\_SEA006

Limit Group: NWT PH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310014.D

Injection Date: 31-Mar-2020 21:53:30

Instrument ID: SEA006

Lims ID: ic

Client ID:

Operator ID: DCV/PRO

ALS Bottle#: 14

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

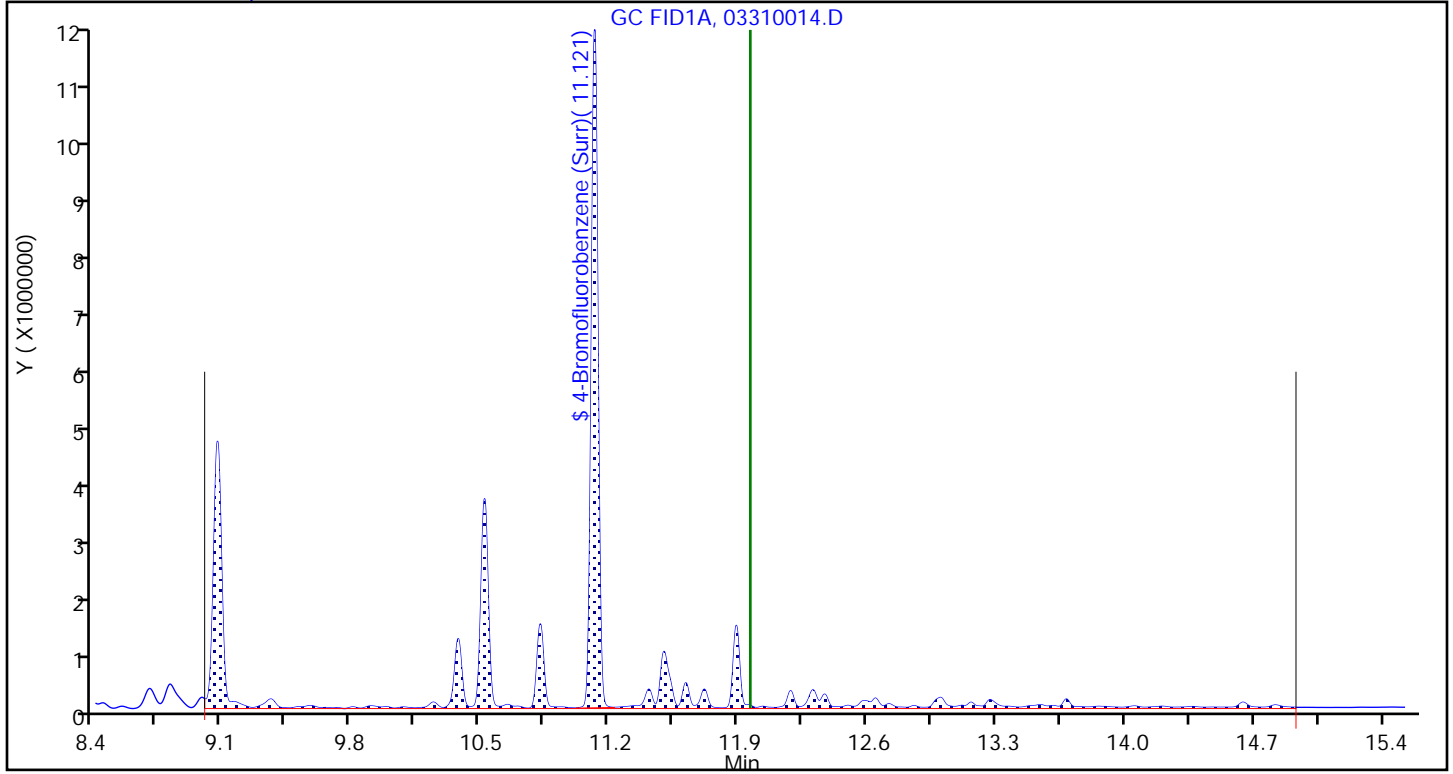
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310015.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 31-Mar-2020 22:17:30 ALS Bottle#: 15 Worklist Smp#: 14  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 250  
 Operator ID: DCV/PRO Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 02-Apr-2020 12:58:35 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX0304

First Level Reviewer: oshaughnessyp Date: 01-Apr-2020 10:45:35

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.056	8.053	0.003	8964496	60.0	50.3	
A 7 GRO	8.594	(5.189-11.998)		39571736	NC	NC	
A 5 C6-C10	8.707	(5.823-11.590)		33677192	NC	NC	
A 8 C6-C12	9.588	(5.823-13.353)		41403458	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.122	11.121	0.001	30133951	200.0	187.4	
A 11 Gasoline	11.967	(9.002-14.932)		29996023	250.0	229.1	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

GRO\_LCS\_00060 Amount Added: 6.25 Units: uL  
 Methanol\_00036 Amount Added: 1250.00 Units: uL  
 TFT Spike\_00040 Amount Added: 7.50 Units: uL  
 BFBGRO ARCHON\_00041 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310015.D

Injection Date: 31-Mar-2020 22:17:30

Instrument ID: SEA006

Operator ID: DCV/PRO

Lims ID: ic

Worklist Smp#: 14

Client ID:

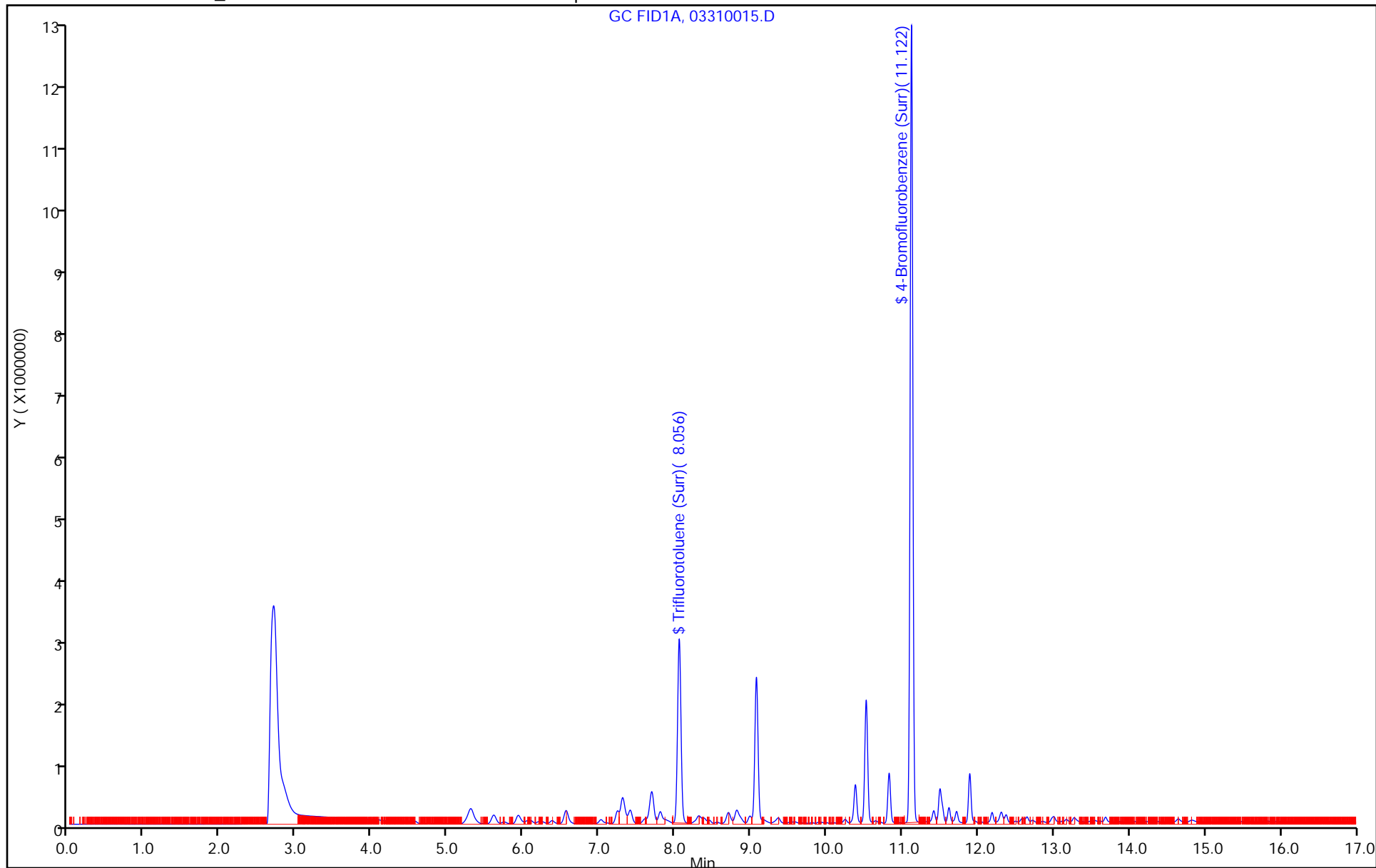
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 15

Method: GRO\_SEA006

Limit Group: NWT PH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310015.D

Injection Date: 31-Mar-2020 22:17:30

Instrument ID: SEA006

Lims ID: ic

Client ID:

Operator ID: DCV/PRO

ALS Bottle#: 15

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

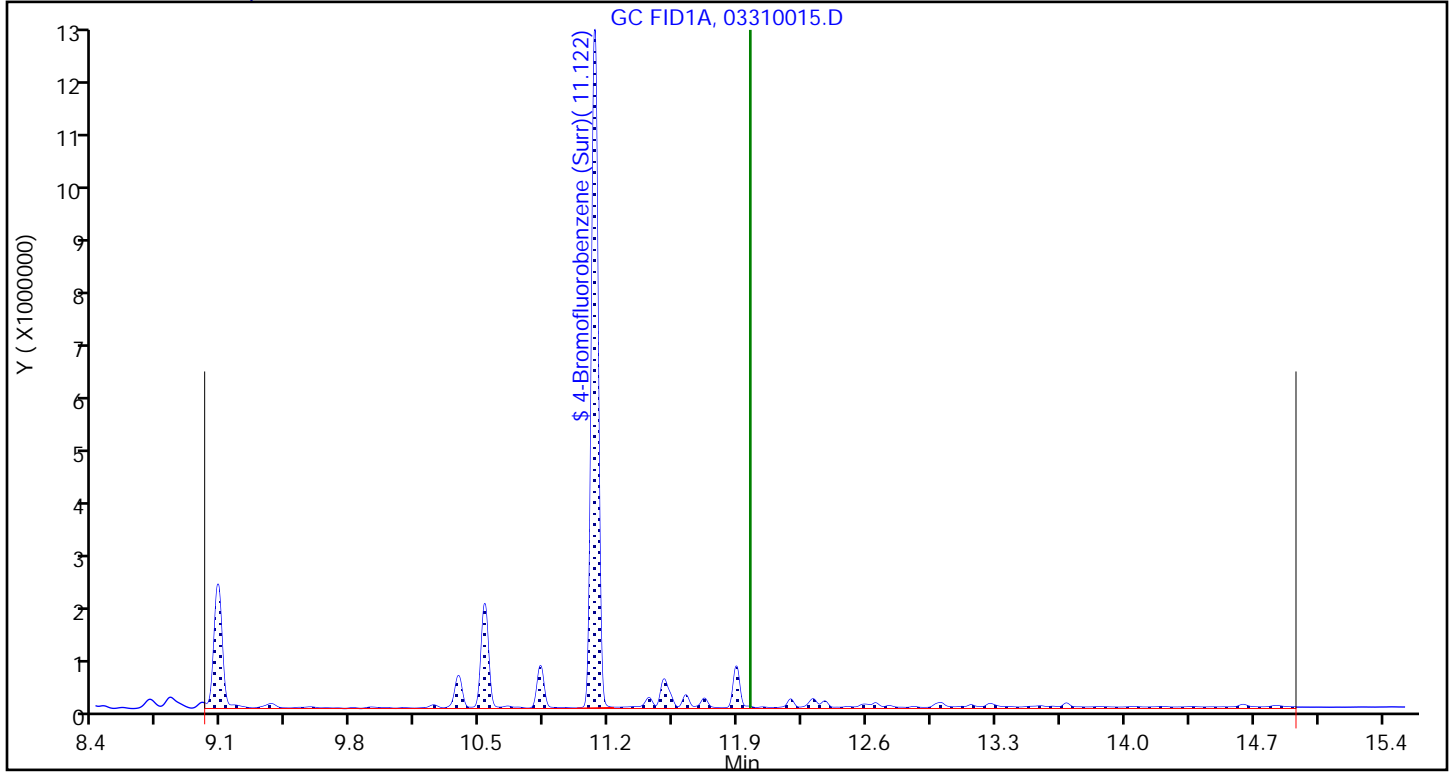
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector GC FID1A

A 11 Gasoline, CAS: STL00228



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310016.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 31-Mar-2020 22:41:30 ALS Bottle#: 16 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 100  
 Operator ID: DCV/PRO Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 02-Apr-2020 12:58:53 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX0304

First Level Reviewer: oshaughnessyp Date: 01-Apr-2020 11:08:25

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.054	8.053	0.001	6726790	40.0	37.8	
A 7 GRO	8.594	(5.189-11.998)		19344753	NC	NC	
A 5 C6-C10	8.707	(5.823-11.590)		16442615	NC	NC	
A 8 C6-C12	9.588	(5.823-13.353)		20911865	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.120	11.121	-0.001	31158503	200.0	193.7	
A 11 Gasoline	11.967	(9.002-14.932)		16004942	100.0	106.7	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

GRO\_LCS\_00060 Amount Added: 2.50 Units: uL  
 Methanol\_00036 Amount Added: 1250.00 Units: uL  
 TFT Spike\_00040 Amount Added: 5.00 Units: uL  
 BFBGRO ARCHON\_00041 Amount Added: 2.00 Units: uL Run Reagent



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310016.D

Injection Date: 31-Mar-2020 22:41:30

Instrument ID: SEA006

Operator ID: DCV/PRO

Lims ID: ic

Worklist Smp#: 15

Client ID:

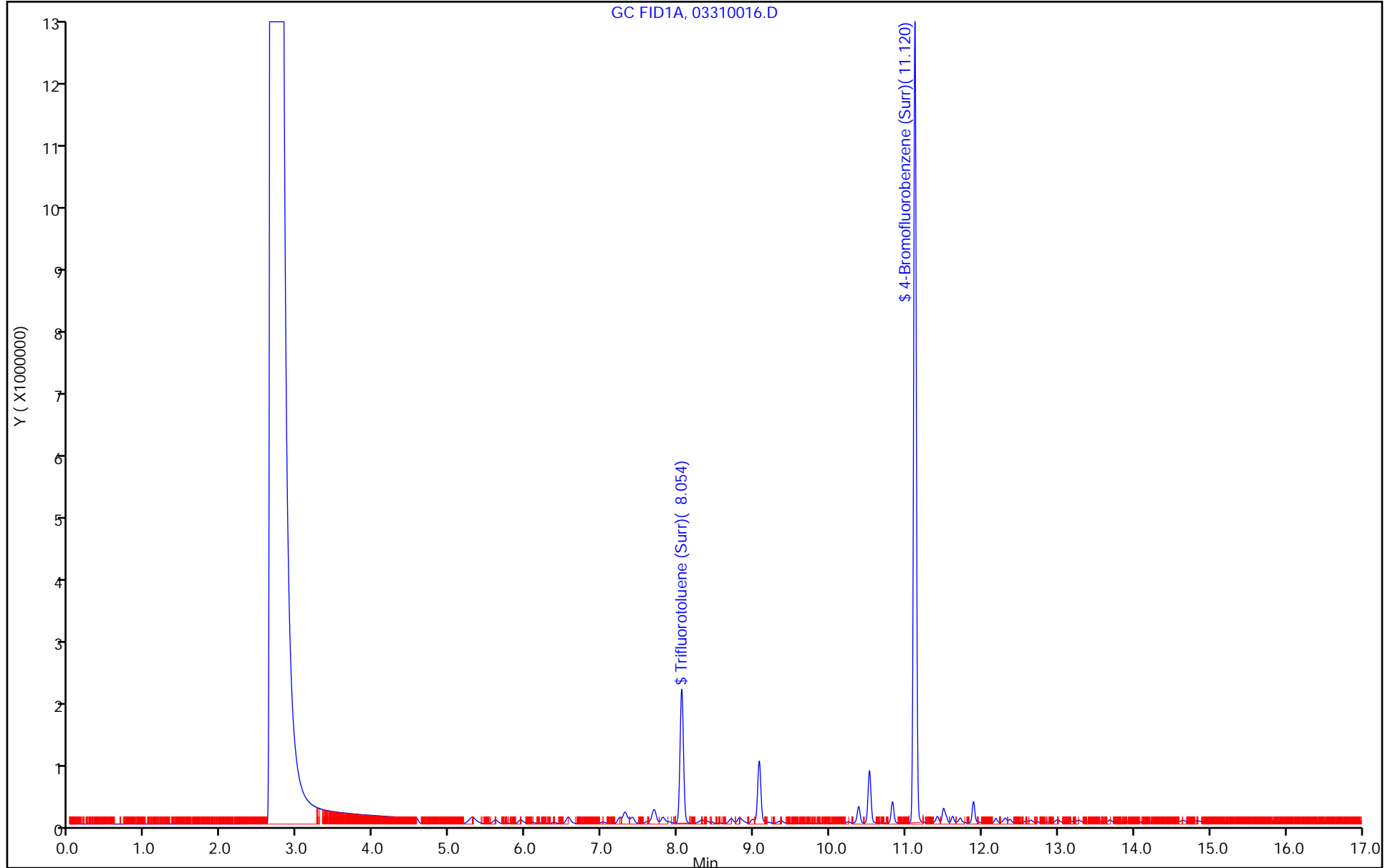
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 16

Method: GRO\_SEA006

Limit Group: NWT PH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310016.D

Injection Date: 31-Mar-2020 22:41:30

Instrument ID: SEA006

Lims ID: ic

Client ID:

Operator ID: DCV/PRO

ALS Bottle#: 16

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

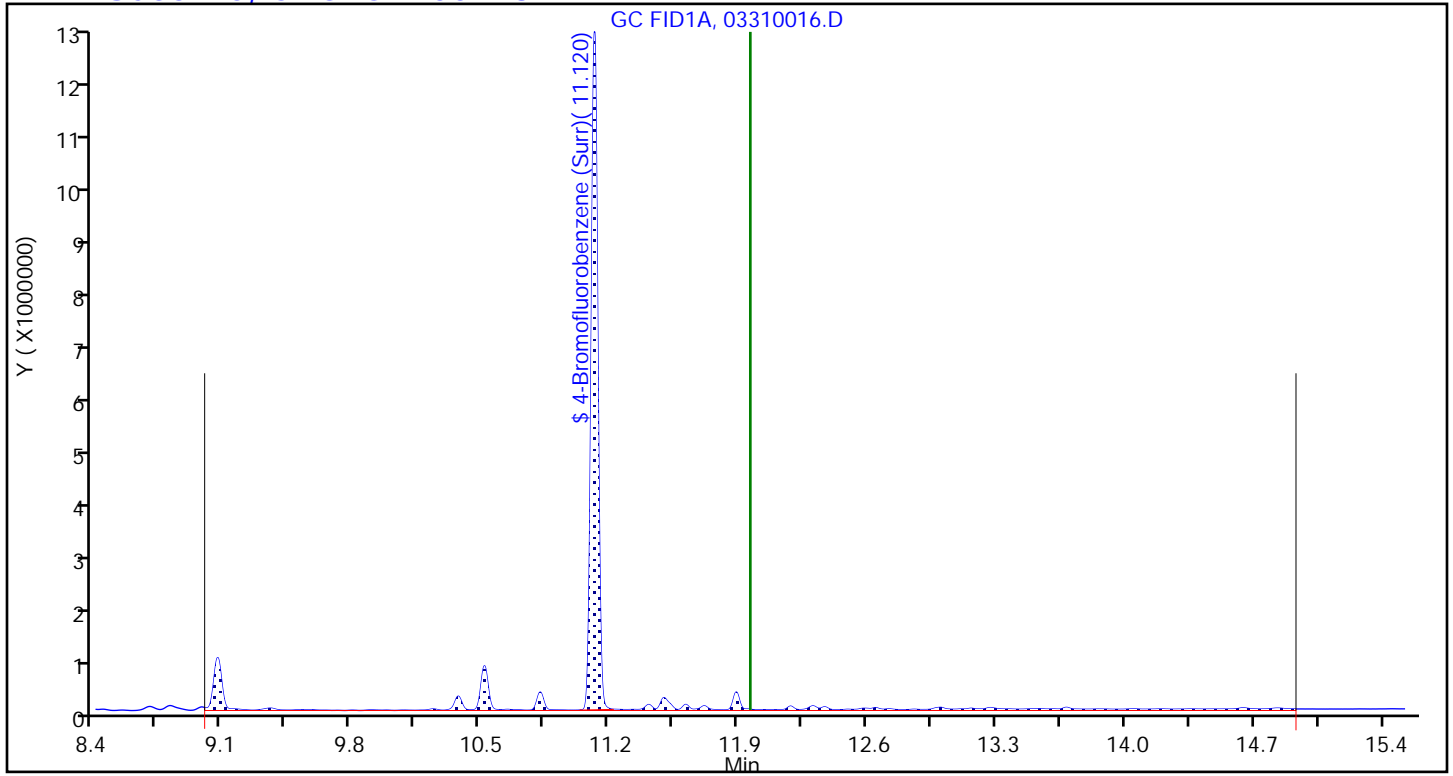
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector GC FID1A

A 11 Gasoline, CAS: STL00228



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 31-Mar-2020 23:05:30 ALS Bottle#: 17 Worklist Smp#: 16  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 50  
 Operator ID: DCV/PRO Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 02-Apr-2020 12:59:13 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX0304

First Level Reviewer: oshaughnessyp Date: 01-Apr-2020 11:08:35

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.054	8.053	0.001	3296040	20.0	18.5	
A 7 GRO	8.594	(5.189-11.998)		9393514	NC	NC	
A 5 C6-C10	8.707	(5.823-11.590)		7676925	NC	NC	
A 8 C6-C12	9.588	(5.823-13.353)		10519941	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.122	11.121	0.001	30022462	200.0	186.7	
A 11 Gasoline	11.967	(9.002-14.932)		9478233	50.0	49.6	

**QC Flag Legend**

Processing Flags  
 NC - Not Calibrated

**Reagents:**

GRO\_LCS\_00060 Amount Added: 1.25 Units: uL  
 Methanol\_00036 Amount Added: 1250.00 Units: uL  
 TFT Spike\_00040 Amount Added: 2.50 Units: uL  
 BFBGRO ARCHON\_00041 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D

Injection Date: 31-Mar-2020 23:05:30

Instrument ID: SEA006

Operator ID: DCV/PRO

Lims ID: ic

Worklist Smp#: 16

Client ID:

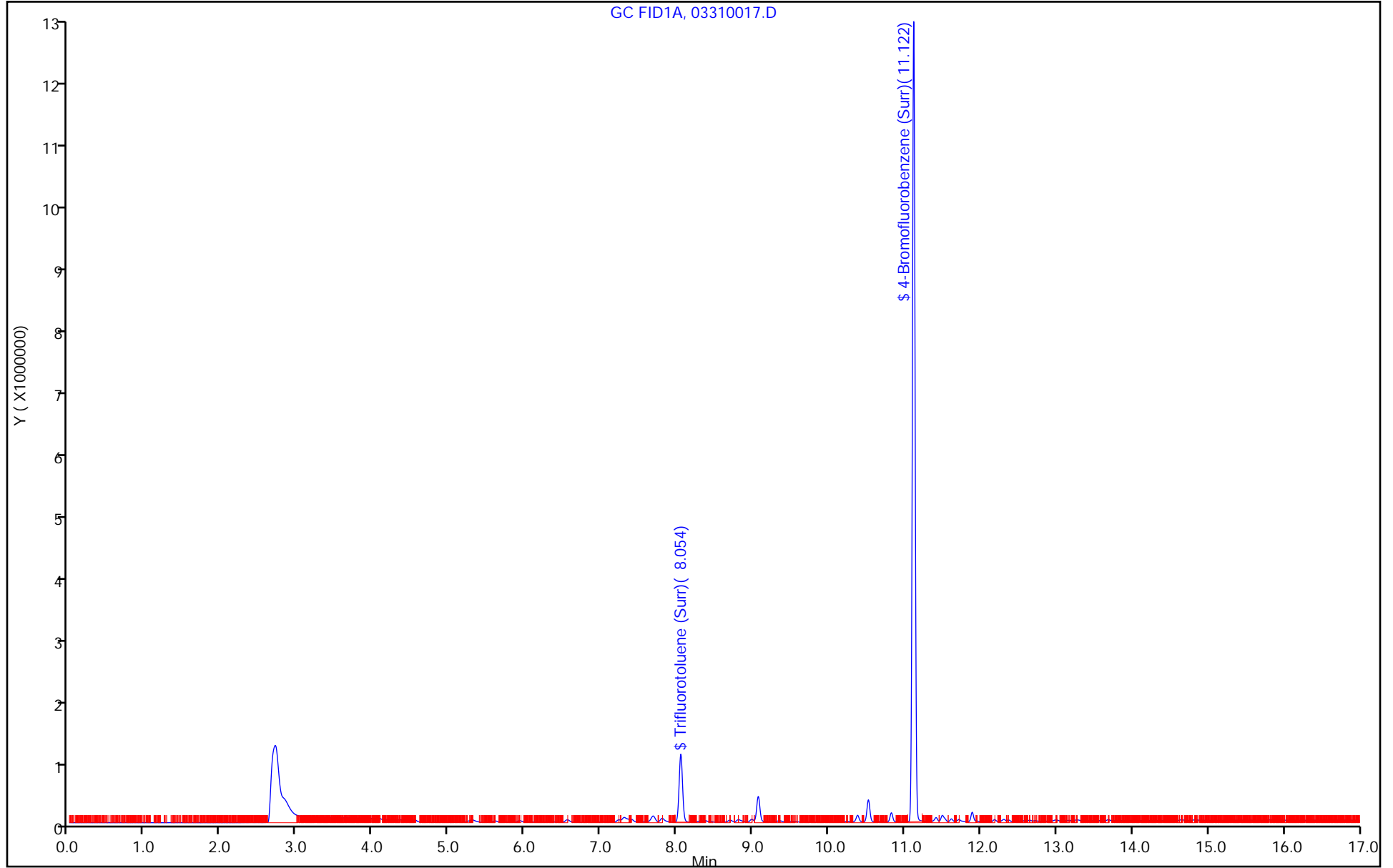
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 17

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D

Injection Date: 31-Mar-2020 23:05:30

Instrument ID: SEA006

Lims ID: ic

Client ID:

Operator ID: DCV/PRO

ALS Bottle#: 17

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

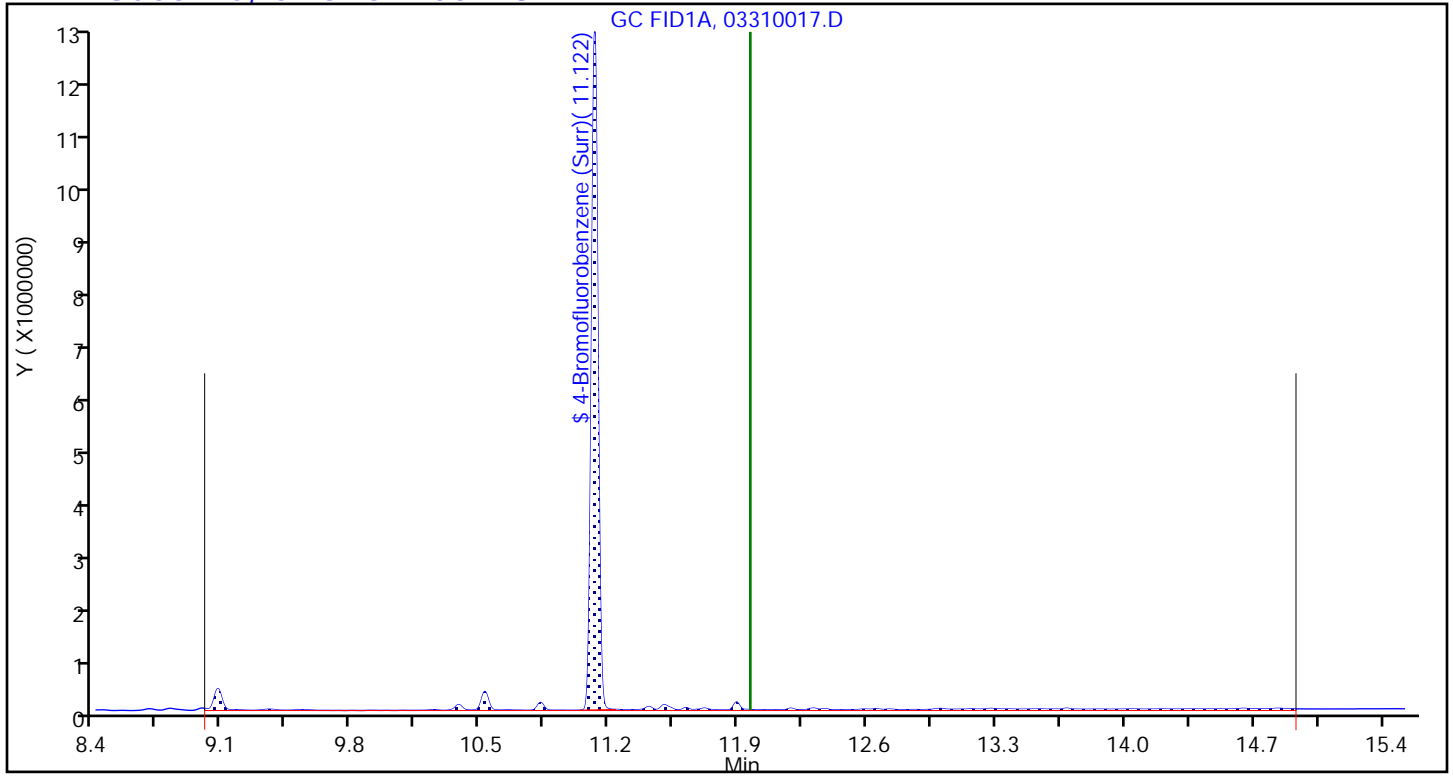
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector GC FID1A

A 11 Gasoline, CAS: STL00228



FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-325923/17 Calibration Date: 03/31/2020 23:29  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 03310018.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline	Lin2		118426		1000	1000	0.3	20.0
Trifluorotoluene (Surr)	Ave	178134	170359		57.4	60.0	-4.4	20.0
4-Bromofluorobenzene (Surr)	Ave	160838	159734		199	200	-0.7	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-325923/17 Calibration Date: 03/31/2020 23:29  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 03310018.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline	11.97	9.00	14.93
Trifluorotoluene (Surr)	8.05	7.95	8.15
4-Bromofluorobenzene (Surr)	11.12	11.02	11.22

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310018.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 31-Mar-2020 23:29:30 ALS Bottle#: 18 Worklist Smp#: 17  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ICV 1000  
 Operator ID: DCV/PRO Instrument ID: SEA006  
 Sublist:

Method: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 02-Apr-2020 10:39:15 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX0304

First Level Reviewer: oshaughnessyp Date: 01-Apr-2020 11:08:43

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.054	8.053	0.001	10217447	60.0	57.4	
A 7 GRO	8.594	(5.189-11.998)		168283575	NC	NC	
A 5 C6-C10	8.707	(5.823-11.590)		148229570	NC	NC	
A 8 C6-C12	9.588	(5.823-13.353)		168576649	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.122	11.121	0.001	31946831	200.0	198.6	
A 11 Gasoline	11.967	(9.002-14.932)		118425967	1000.0	1002.7	

**QC Flag Legend**

Processing Flags  
 NC - Not Calibrated

**Reagents:**

GROultraICV\_00001 Amount Added: 50.00 Units: uL  
 V2.4TFT-EX\_00050 Amount Added: 1250.00 Units: uL  
 BFBGRO ARCHON\_00041 Amount Added: 2.00 Units: uL Run Reagent



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310018.D

Injection Date: 31-Mar-2020 23:29:30

Instrument ID: SEA006

Operator ID: DCV/PRO

Lims ID: ICV

Worklist Smp#: 17

Client ID:

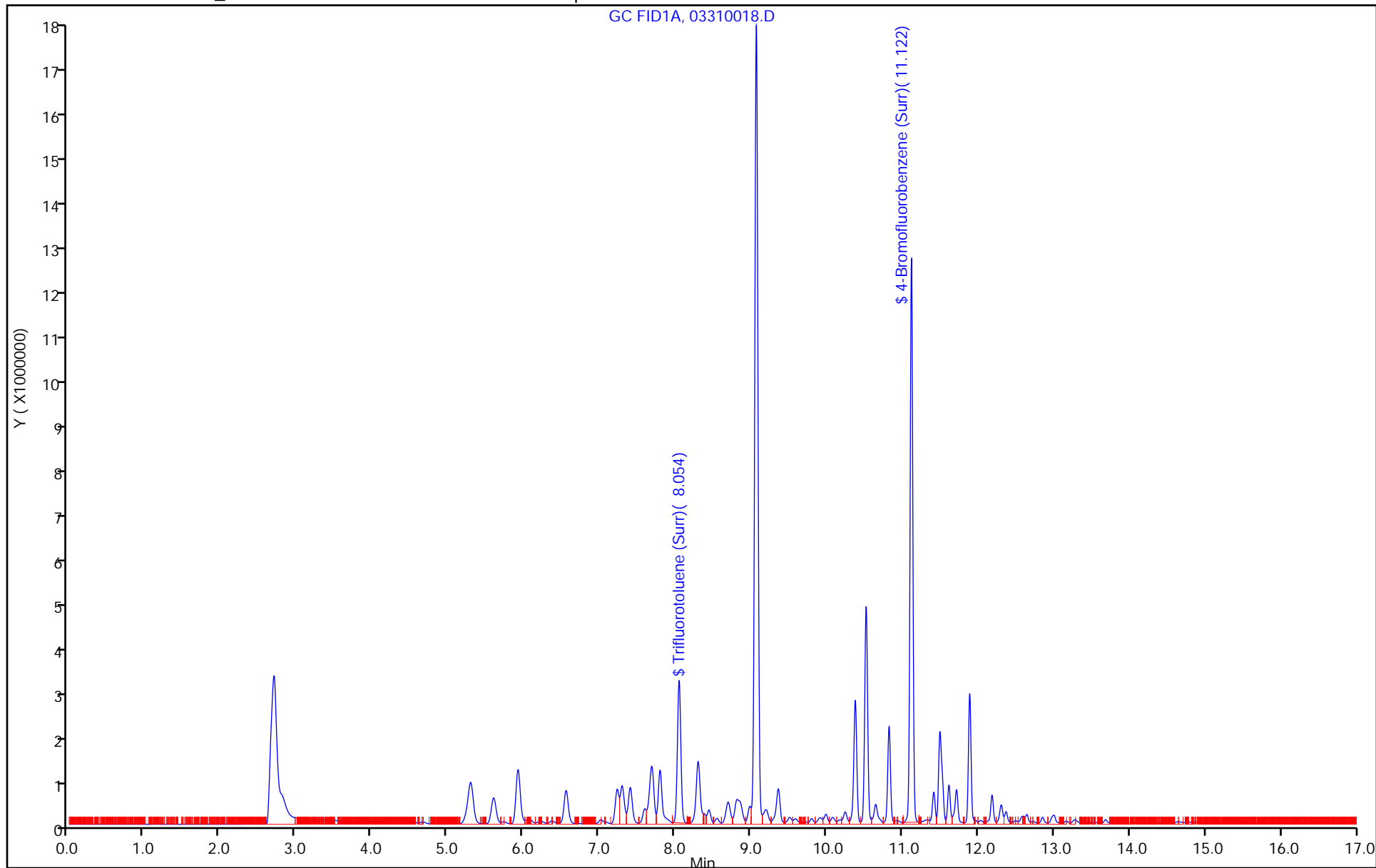
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 18

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310018.D

Injection Date: 31-Mar-2020 23:29:30

Instrument ID: SEA006

Lims ID: ICV

Client ID:

Operator ID: DCV/PRO

ALS Bottle#: 18

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

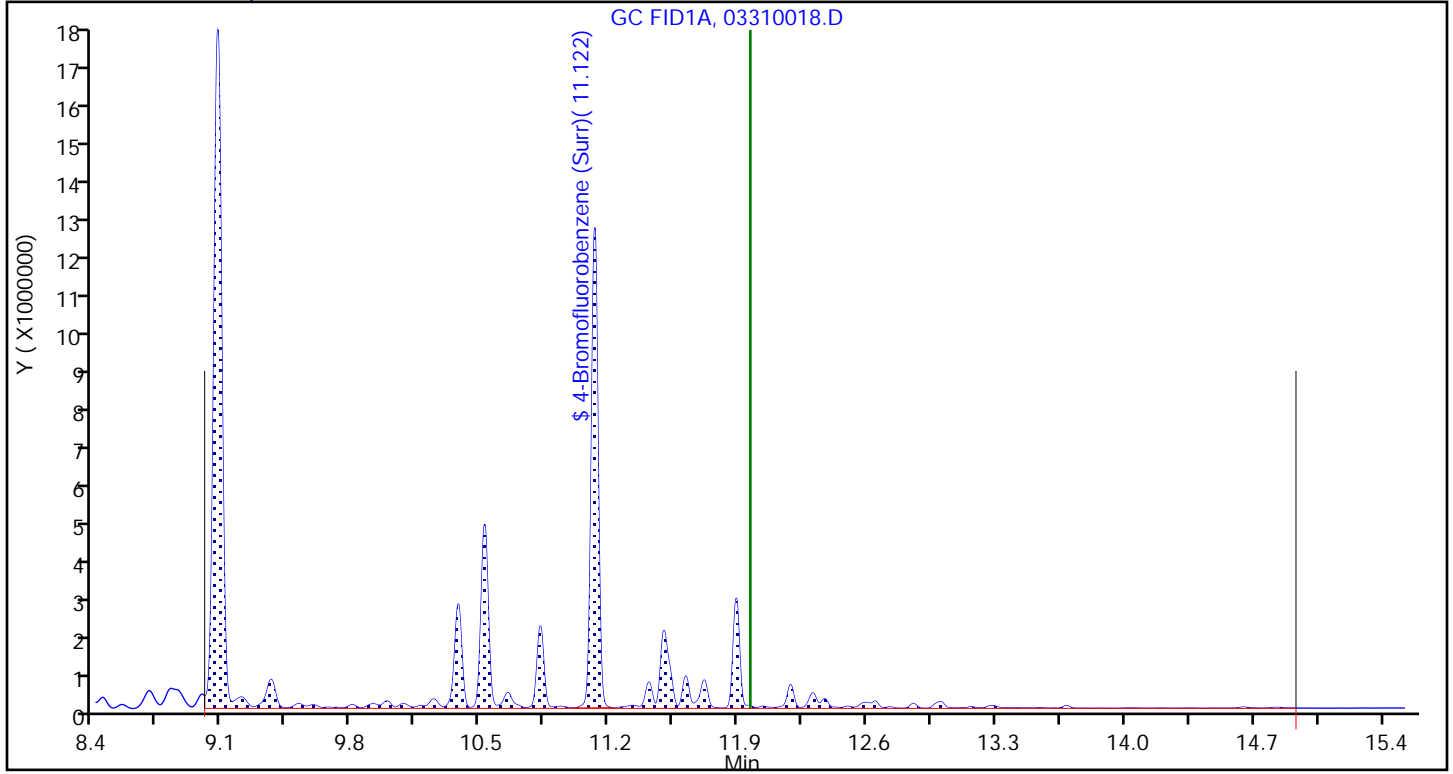
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-340536/4 Calibration Date: 10/11/2020 11:53  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120004.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline	Lin2		106082		895	1000	-10.5	20.0
Trifluorotoluene (Surr)	Ave	178134	179874		60.6	60.0	1.0	20.0
4-Bromofluorobenzene (Surr)	Ave	160838	131901		164	200	-18.0	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-340536/4 Calibration Date: 10/11/2020 11:53  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120004.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline	11.95	8.98	14.92
Trifluorotoluene (Surr)	8.04	7.94	8.14
4-Bromofluorobenzene (Surr)	11.11	11.01	11.21

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120004.D  
 Lims ID: CCVRT  
 Client ID:  
 Sample Type: CCVRT  
 Inject. Date: 11-Oct-2020 11:53:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ccvrt  
 Operator ID: DCV Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 14:27:23 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.038	8.038	0.000	10788099	60.0	60.6	
A 7 GRO	8.584	(5.179-11.989)		173140850	NC	NC	
A 5 C6-C10	8.695	(5.811-11.579)		148799119	NC	NC	
A 8 C6-C12	9.577	(5.811-13.342)		173515690	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.108	11.108	0.000	26380130	200.0	164.0	
A 11 Gasoline	11.949	(8.984-14.920)		106082073	1000.0	894.7	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

V2.4TFT-EX\_00057 Amount Added: 2.50 Units: mL  
 GRO\_LCS\_00064 Amount Added: 50.00 Units: uL  
 BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120004.D

Injection Date: 11-Oct-2020 11:53:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: CCVRT

Worklist Smp#: 4

Client ID:

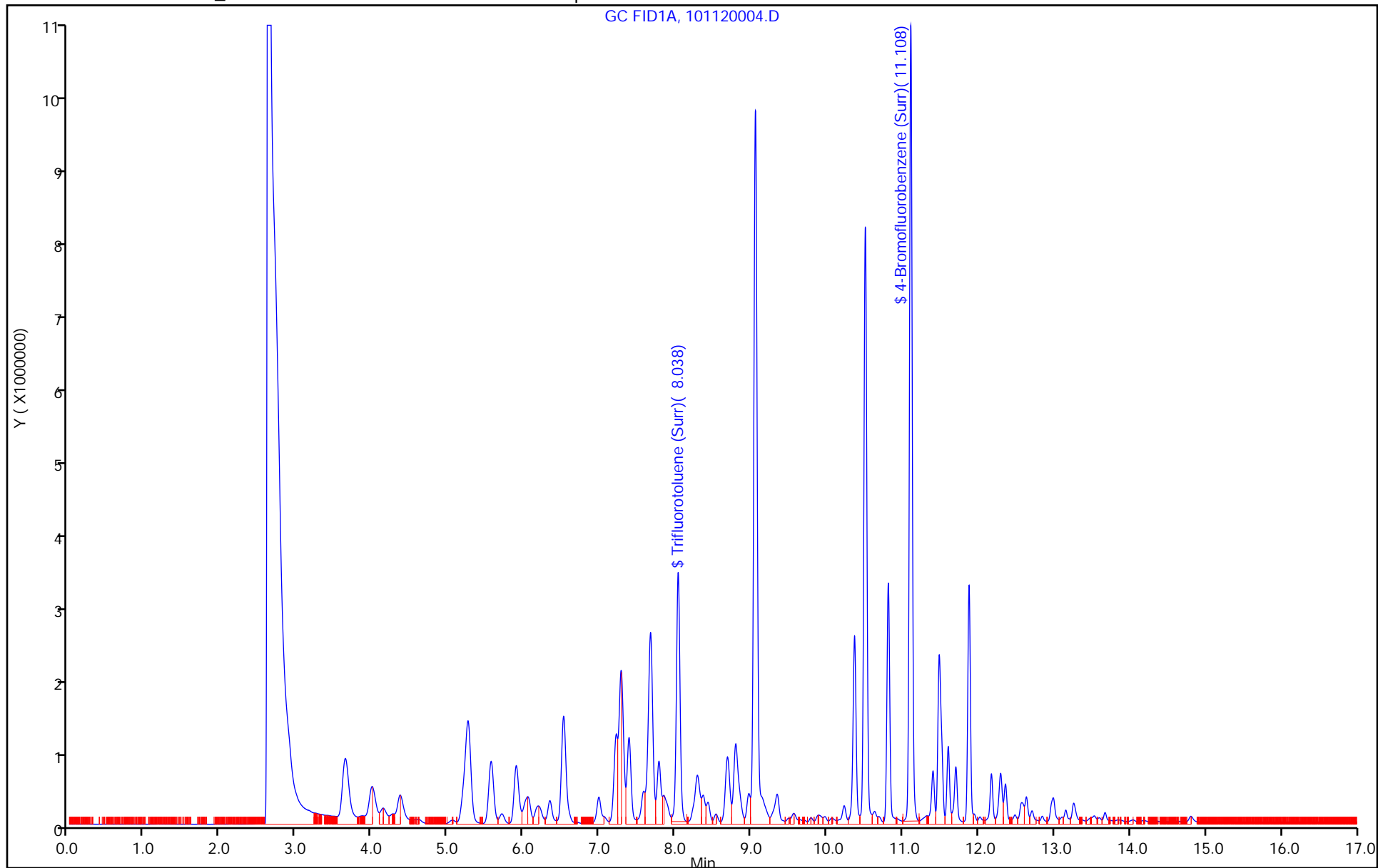
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 4

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120004.D

Injection Date: 11-Oct-2020 11:53:30

Instrument ID: SEA006

Lims ID: CCVRT

Client ID:

Operator ID: DCV

ALS Bottle#: 4

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

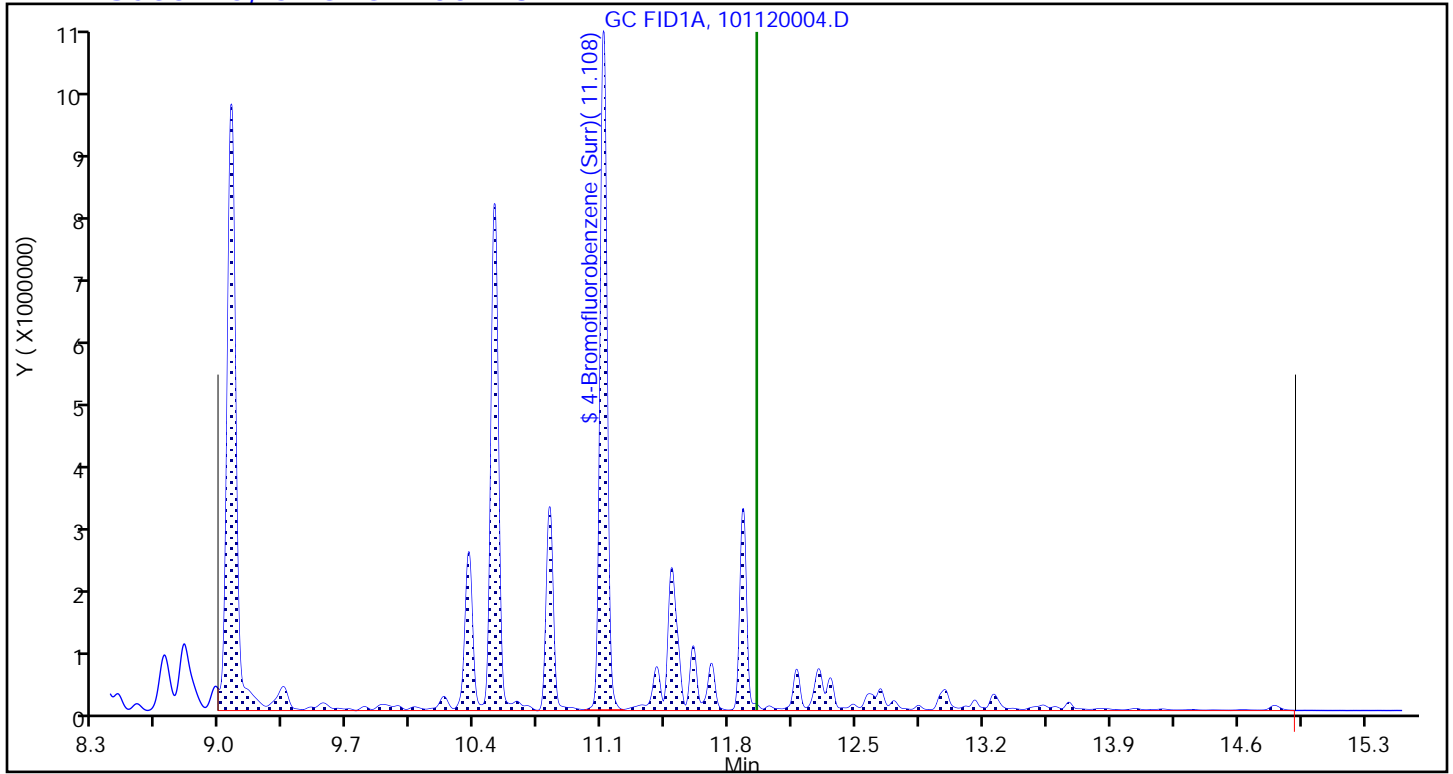
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/15 Calibration Date: 10/11/2020 16:24  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120015.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline	Lin2		115418		976	1000	-2.4	20.0
Trifluorotoluene (Surr)	Ave	178134	179770		60.5	60.0	0.9	20.0
4-Bromofluorobenzene (Surr)	Ave	160838	143551		179	200	-10.7	20.0



FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/15 Calibration Date: 10/11/2020 16:24  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120015.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline	11.95	8.98	14.92
Trifluorotoluene (Surr)	8.05	7.94	8.14
4-Bromofluorobenzene (Surr)	11.11	11.01	11.21

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120015.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 11-Oct-2020 16:24:30 ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ccv  
 Operator ID: DCV Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:36:35 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:36:35

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.045	8.038	0.007	10781870	60.0	60.5	
A 7 GRO	8.584	(5.179-11.989)		178599652	NC	NC	
A 5 C6-C10	8.695	(5.811-11.579)		151636752	NC	NC	
A 8 C6-C12	9.577	(5.811-13.342)		181713600	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.110	11.108	0.002	28710105	200.0	178.5	
A 11 Gasoline	11.949	(8.984-14.920)		115418474	1000.0	976.4	

**QC Flag Legend**

Processing Flags  
 NC - Not Calibrated

**Reagents:**

V2.4TFT-EX\_00057 Amount Added: 2.50 Units: mL  
 GRO\_LCS\_00064 Amount Added: 50.00 Units: uL  
 BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120015.D

Injection Date: 11-Oct-2020 16:24:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: ccv

Worklist Smp#: 15

Client ID:

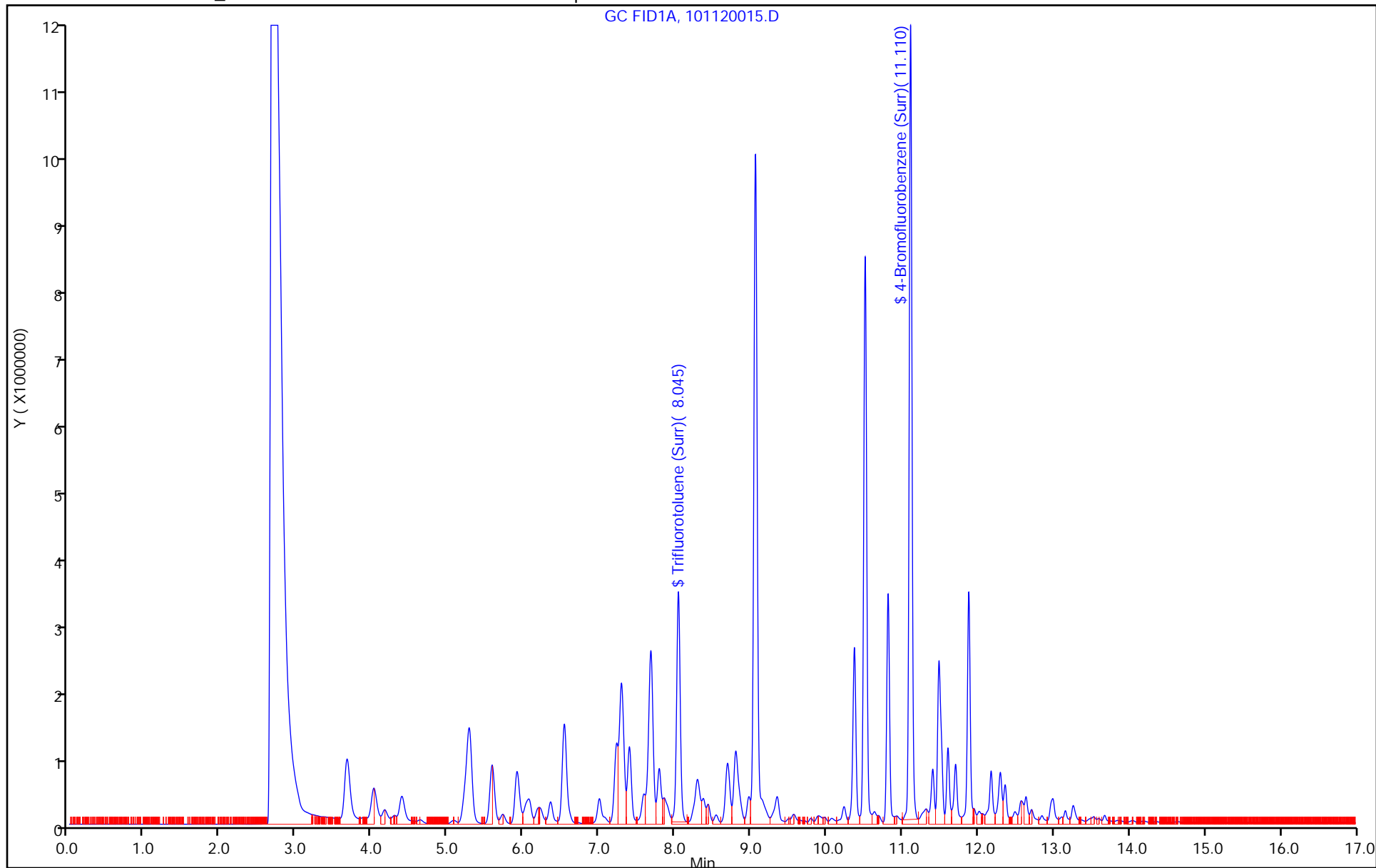
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 14

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120015.D

Injection Date: 11-Oct-2020 16:24:30

Instrument ID: SEA006

Lims ID: ccv

Client ID:

Operator ID: DCV

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

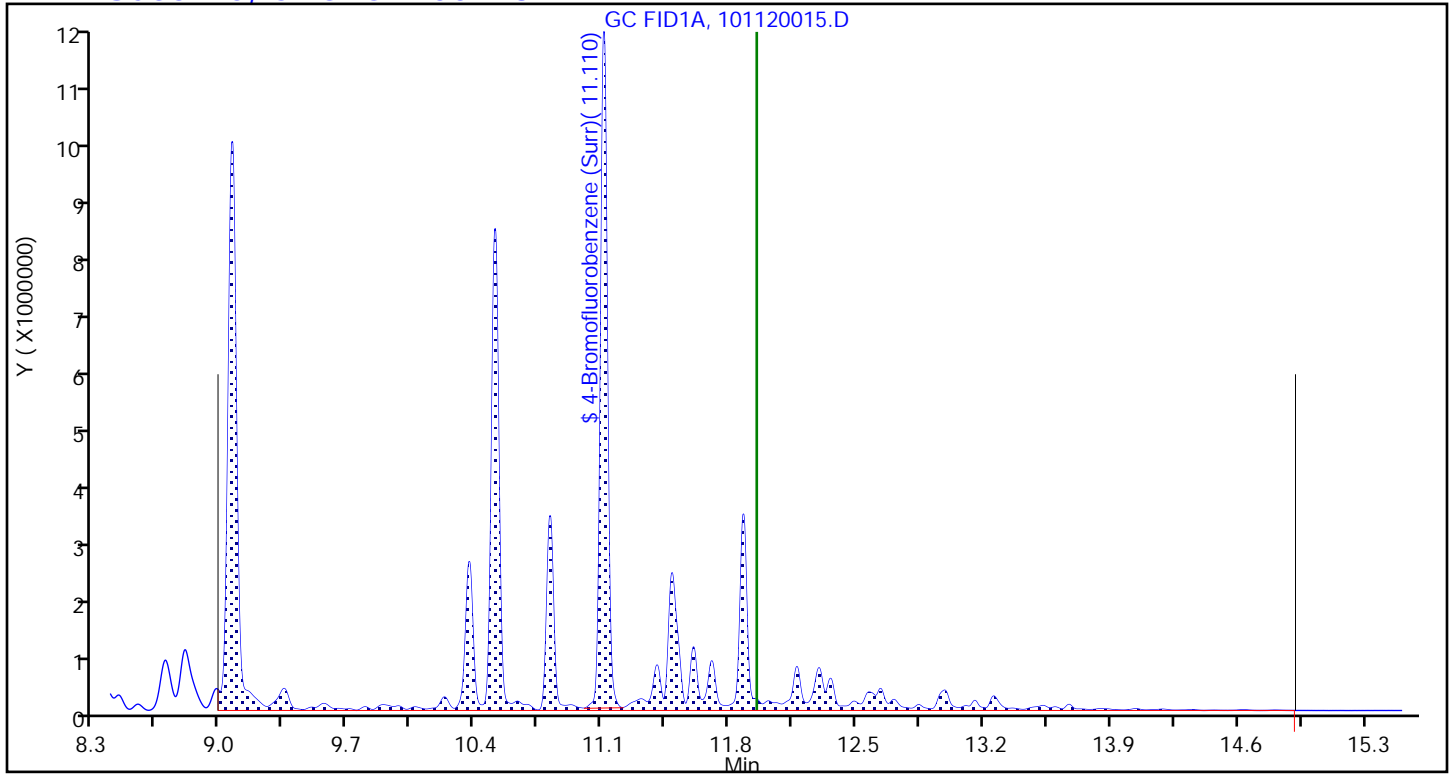
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/26 Calibration Date: 10/11/2020 20:53  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120026.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline	Lin2		103519		872	1000	-12.8	20.0
Trifluorotoluene (Surr)	Ave	178134	172716		58.2	60.0	-3.0	20.0
4-Bromofluorobenzene (Surr)	Ave	160838	135048		168	200	-16.0	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/26 Calibration Date: 10/11/2020 20:53  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120026.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline	11.95	8.98	14.92
Trifluorotoluene (Surr)	8.05	7.94	8.14
4-Bromofluorobenzene (Surr)	11.11	11.01	11.21

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120026.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 11-Oct-2020 20:53:30 ALS Bottle#: 25 Worklist Smp#: 26  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ccv  
 Operator ID: DCV Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:45:18 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:45:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.045	8.038	0.007	10358840	60.0	58.2	
A 7 GRO	8.584	(5.179-11.989)		166787612	NC	NC	
A 5 C6-C10	8.695	(5.811-11.579)		142848808	NC	NC	
A 8 C6-C12	9.577	(5.811-13.342)		166710279	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.111	11.108	0.003	27009678	200.0	167.9	
A 11 Gasoline	11.949	(8.984-14.920)		103519197	1000.0	872.3	

**QC Flag Legend**

Processing Flags  
 NC - Not Calibrated

**Reagents:**

V2.4TFT-EX\_00057 Amount Added: 2.50 Units: mL  
 GRO\_LCS\_00064 Amount Added: 50.00 Units: uL  
 BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120026.D

Injection Date: 11-Oct-2020 20:53:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: ccv

Worklist Smp#: 26

Client ID:

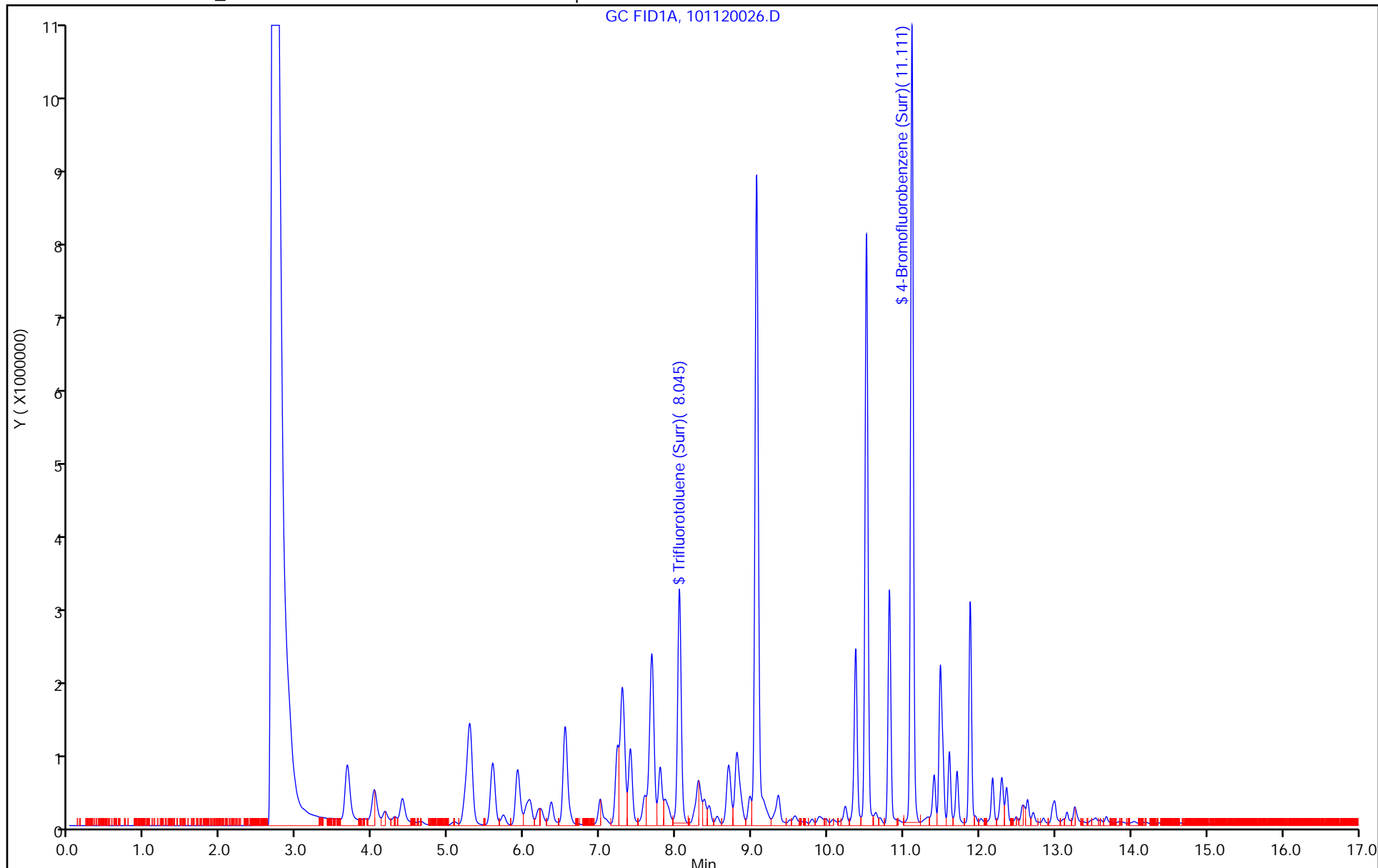
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 25

Method: GRO\_SEA006

Limit Group: NWTPH-GX





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120026.D

Injection Date: 11-Oct-2020 20:53:30

Instrument ID: SEA006

Lims ID: ccv

Client ID:

Operator ID: DCV

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

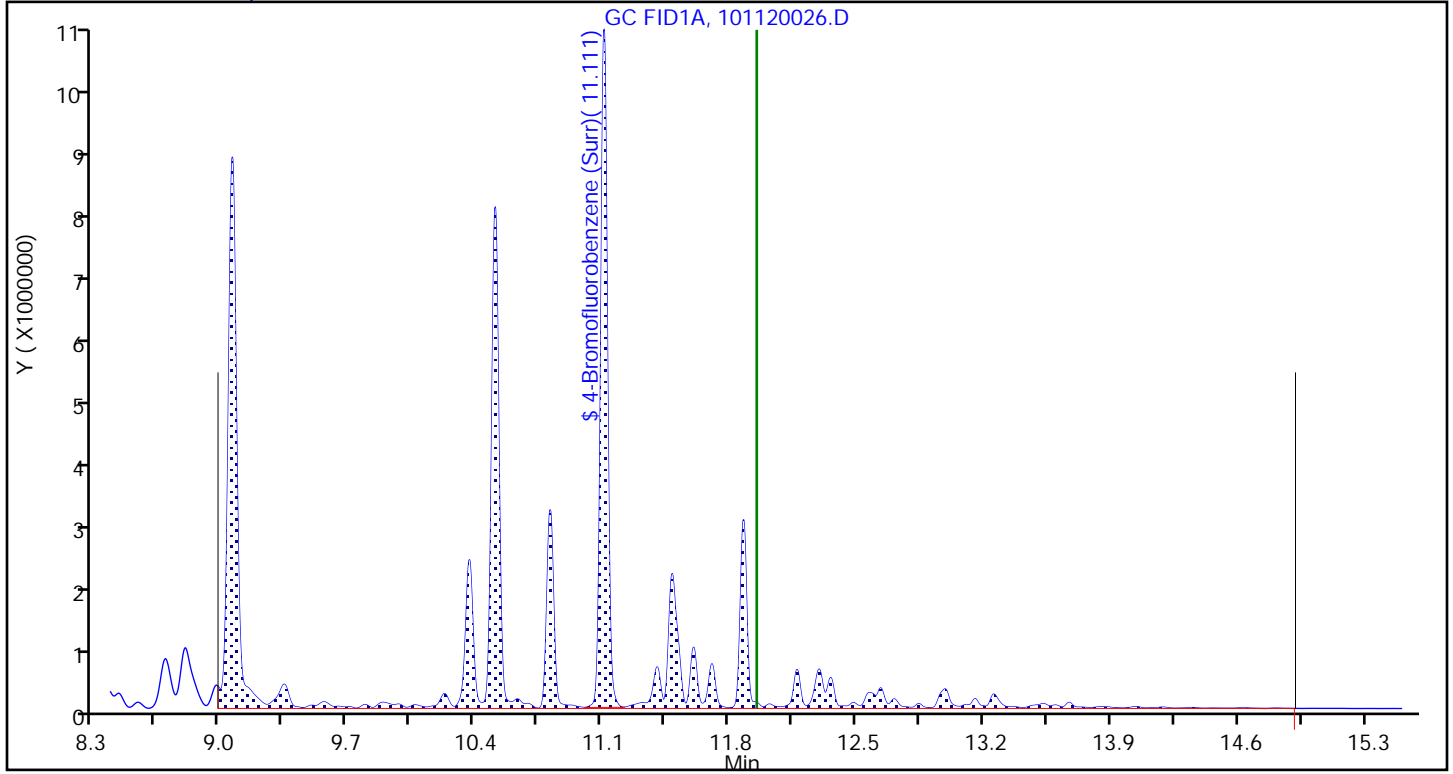
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/30 Calibration Date: 10/11/2020 22:31  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120030.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline	Lin2		107435		907	1000	-9.3	20.0
Trifluorotoluene (Surr)	Ave	178134	171406		57.7	60.0	-3.8	20.0
4-Bromofluorobenzene (Surr)	Ave	160838	136061		169	200	-15.4	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/30 Calibration Date: 10/11/2020 22:31  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120030.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline	11.95	8.98	14.92
Trifluorotoluene (Surr)	8.04	7.94	8.14
4-Bromofluorobenzene (Surr)	11.11	11.01	11.21

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120030.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 11-Oct-2020 22:31:30 ALS Bottle#: 29 Worklist Smp#: 30  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ccv  
 Operator ID: DCV Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:51:39 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:51:39

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.044	8.038	0.006	10280251	60.0	57.7	
A 7 GRO	8.584	(5.179-11.989)		163532099	NC	NC	
A 5 C6-C10	8.695	(5.811-11.579)		140330766	NC	NC	
A 8 C6-C12	9.577	(5.811-13.342)		165828107	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.110	11.108	0.002	27212279	200.0	169.2	
A 11 Gasoline	11.952	(8.984-14.920)		107434877	1000.0	906.6	

**QC Flag Legend**

Processing Flags  
 NC - Not Calibrated

**Reagents:**

V2.4TFT-EX\_00057 Amount Added: 2.50 Units: mL  
 GRO\_LCS\_00064 Amount Added: 50.00 Units: uL  
 BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120030.D

Injection Date: 11-Oct-2020 22:31:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: ccv

Worklist Smp#: 30

Client ID:

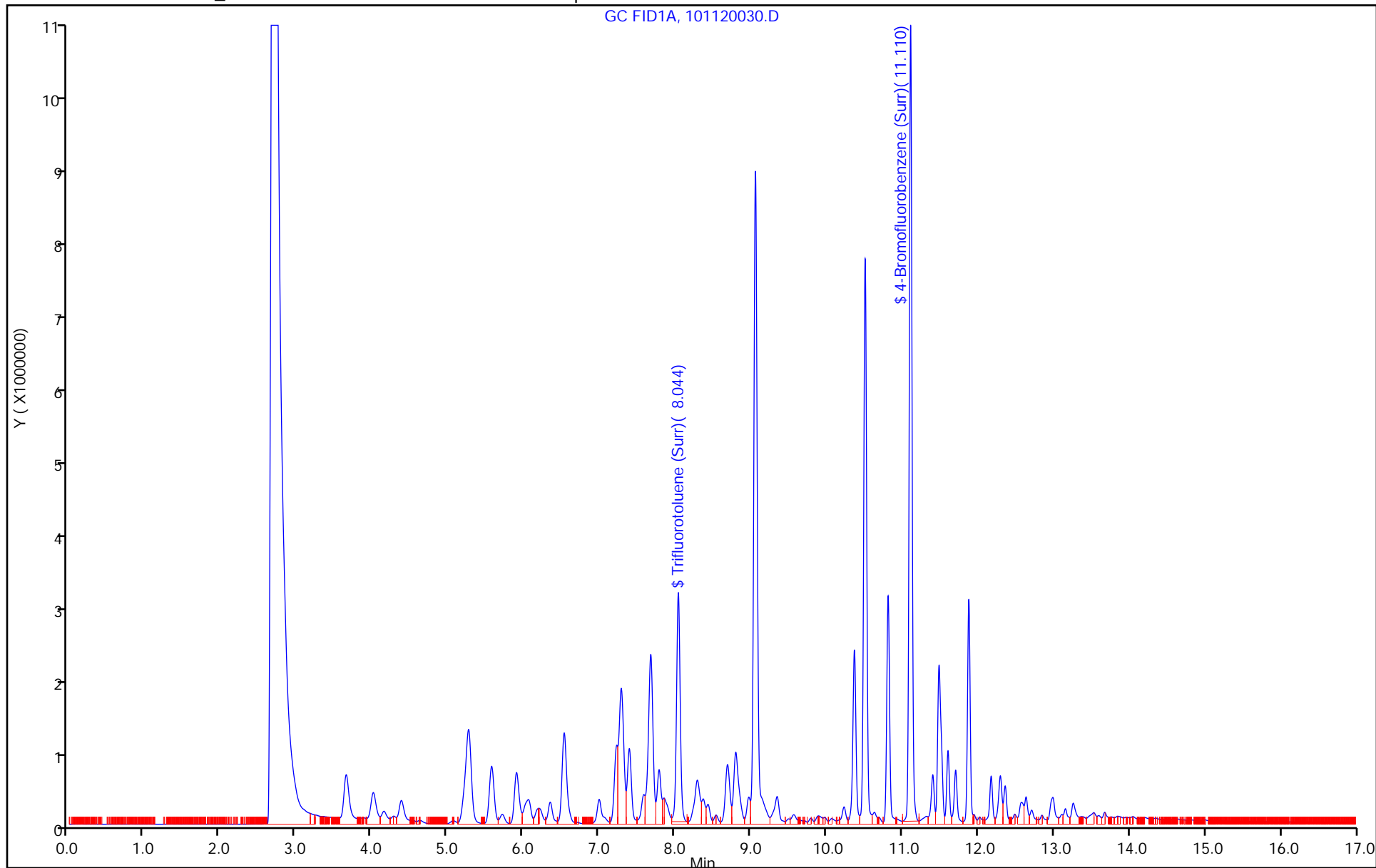
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 29

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120030.D

Injection Date: 11-Oct-2020 22:31:30

Instrument ID: SEA006

Lims ID: ccv

Client ID:

Operator ID: DCV

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

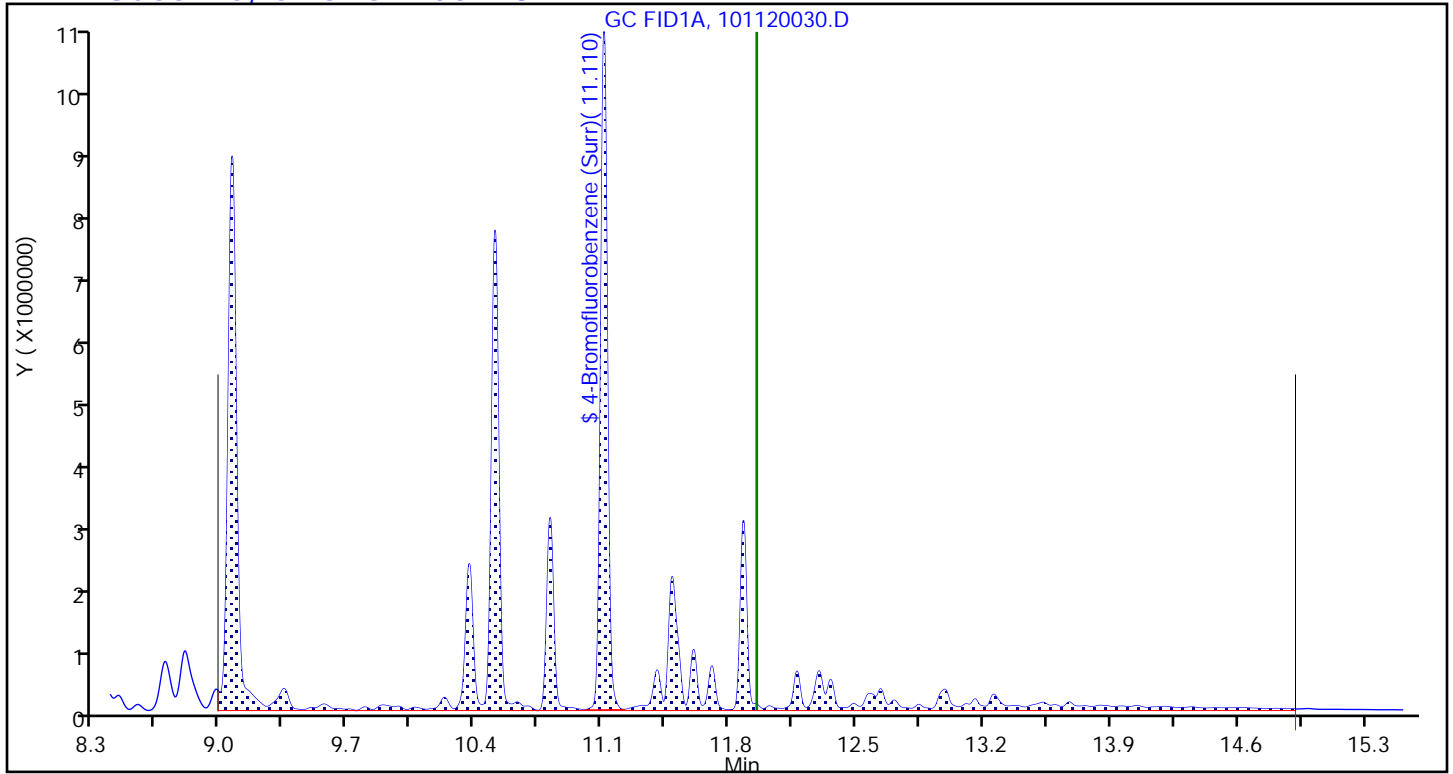
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/41 Calibration Date: 10/12/2020 03:00  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120041.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline	Lin2		101551		855	1000	-14.5	20.0
Trifluorotoluene (Surr)	Ave	178134	166438		56.0	60.0	-6.6	20.0
4-Bromofluorobenzene (Surr)	Ave	160838	137776		171	200	-14.3	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/41 Calibration Date: 10/12/2020 03:00  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120041.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline	11.95	8.98	14.92
Trifluorotoluene (Surr)	8.04	7.94	8.14
4-Bromofluorobenzene (Surr)	11.11	11.01	11.21



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120041.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 12-Oct-2020 03:00:30 ALS Bottle#: 40 Worklist Smp#: 41  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: CCV  
 Operator ID: DCV Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 07:08:55 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1607

First Level Reviewer: vaughand Date: 12-Oct-2020 07:07:47

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.042	8.038	0.004	9982300	60.0	56.0	
A 7 GRO	8.584	(5.179-11.989)		161427962	NC	NC	
A 5 C6-C10	8.695	(5.811-11.579)		138229143	NC	NC	
A 8 C6-C12	9.577	(5.811-13.342)		161630463	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.110	11.108	0.002	27555118	200.0	171.3	
A 11 Gasoline	11.952	(8.984-14.920)		101551116	1000.0	855.1	

**QC Flag Legend**

Processing Flags  
 NC - Not Calibrated

**Reagents:**

V2.4TFT-EX\_00057 Amount Added: 2.50 Units: mL  
 GRO\_LCS\_00064 Amount Added: 50.00 Units: uL  
 BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120041.D

Injection Date: 12-Oct-2020 03:00:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: ccv

Worklist Smp#: 41

Client ID:

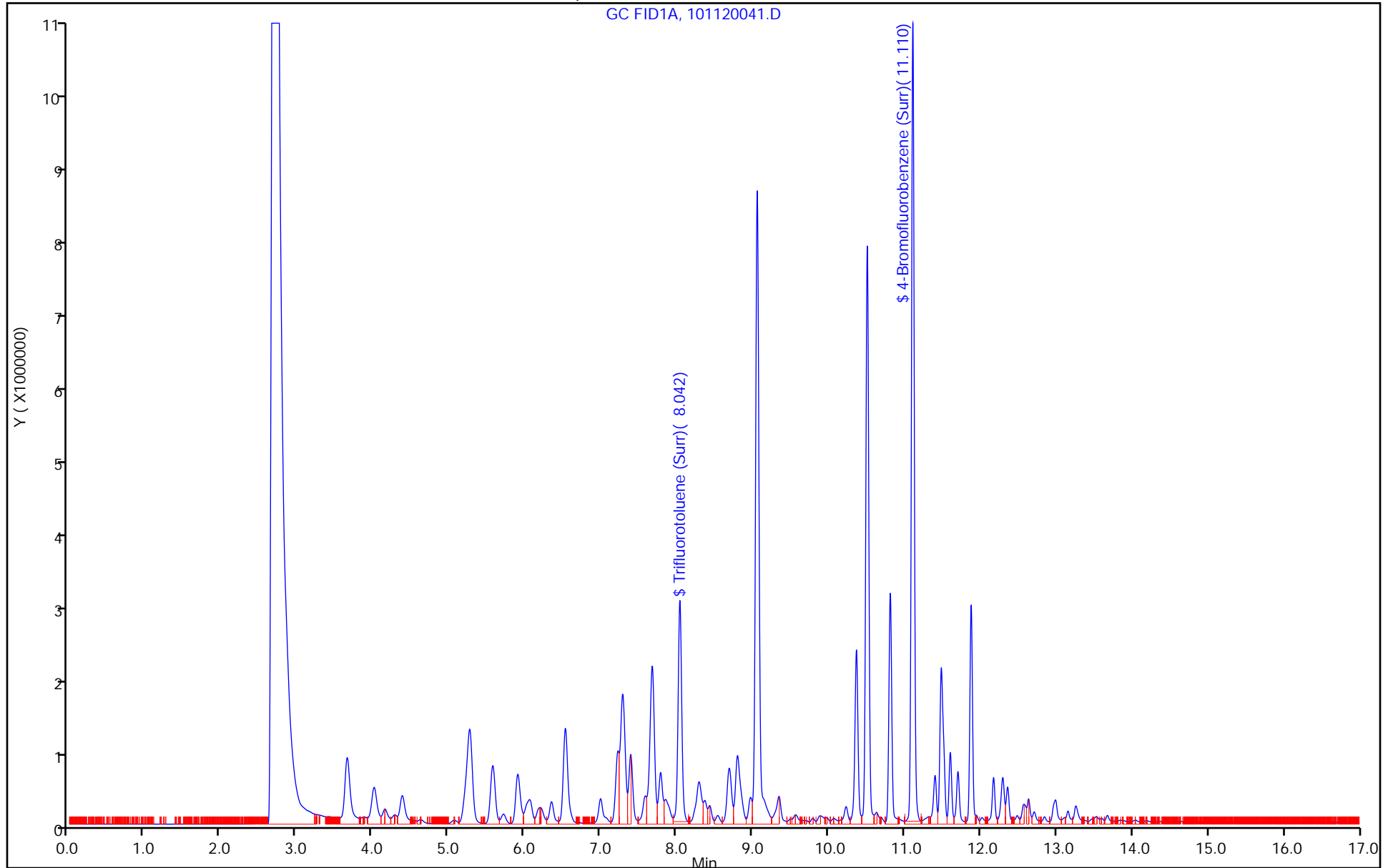
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 40

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120041.D

Injection Date: 12-Oct-2020 03:00:30

Instrument ID: SEA006

Lims ID: ccv

Client ID:

Operator ID: DCV

ALS Bottle#: 40

Worklist Smp#: 41

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

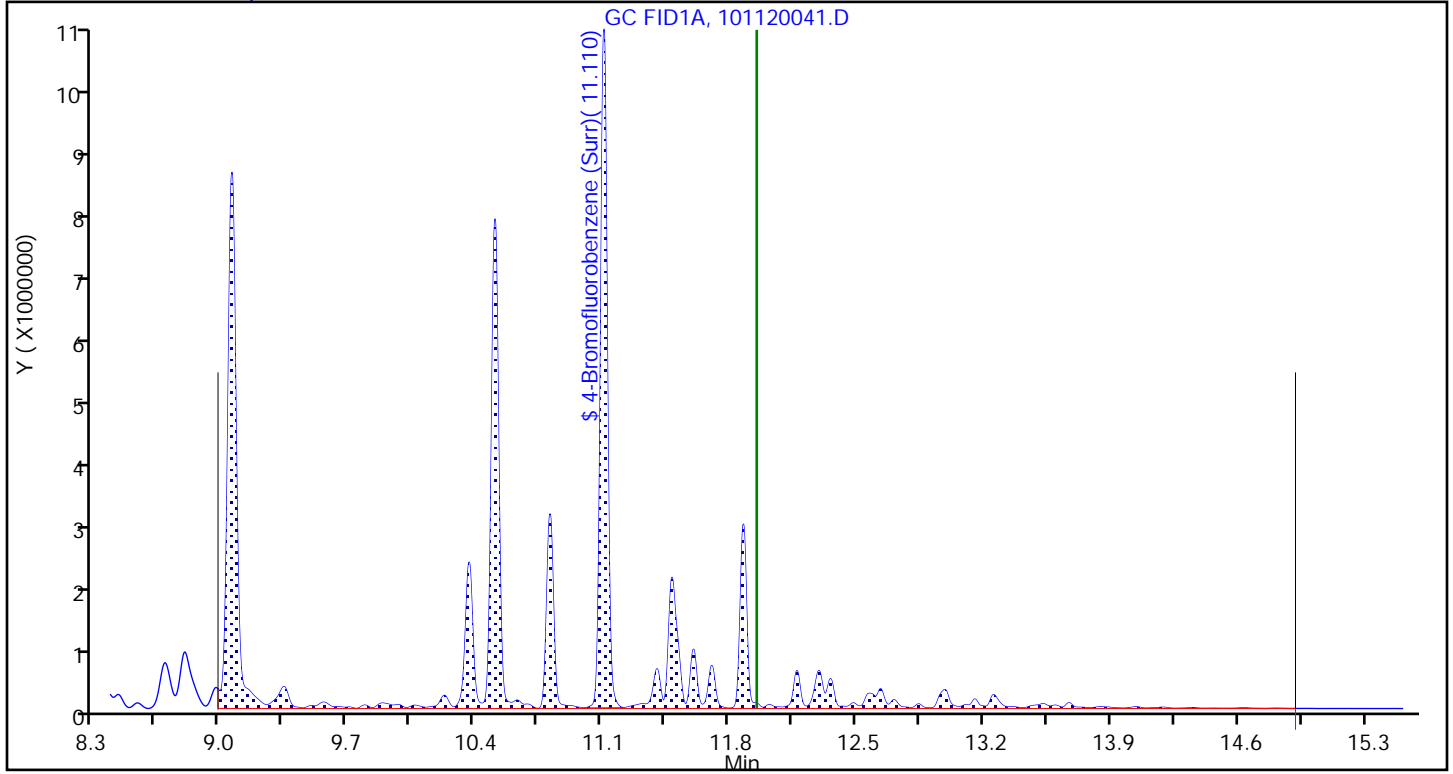
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/52 Calibration Date: 10/12/2020 07:31  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120052.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline	Lin2		104231		879	1000	-12.1	20.0
Trifluorotoluene (Surr)	Ave	178134	188731		63.5	60.0	5.9	20.0
4-Bromofluorobenzene (Surr)	Ave	160838	146990		183	200	-8.6	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/52 Calibration Date: 10/12/2020 07:31  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120052.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline	11.95	8.98	14.92
Trifluorotoluene (Surr)	8.04	7.94	8.14
4-Bromofluorobenzene (Surr)	11.11	11.01	11.21

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120052.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 12-Oct-2020 07:31:30 ALS Bottle#: 51 Worklist Smp#: 52  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: CCV  
 Operator ID: DCV Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 11:05:37 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: mckelljs Date: 12-Oct-2020 11:05:37

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.039	8.038	0.001	11319353	60.0	63.5	
A 7 GRO	8.584	(5.179-11.989)		169879171	NC	NC	
A 5 C6-C10	8.695	(5.811-11.579)		146443278	NC	NC	
A 8 C6-C12	9.577	(5.811-13.342)		169741780	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.109	11.108	0.001	29397906	200.0	182.8	
A 11 Gasoline	11.952	(8.984-14.920)		104231383	1000.0	878.5	

**QC Flag Legend**

Processing Flags  
 NC - Not Calibrated

**Reagents:**

V2.4TFT-EX\_00057 Amount Added: 2.50 Units: mL  
 GRO\_LCS\_00064 Amount Added: 50.00 Units: uL  
 BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120052.D

Injection Date: 12-Oct-2020 07:31:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: ccv

Worklist Smp#: 52

Client ID:

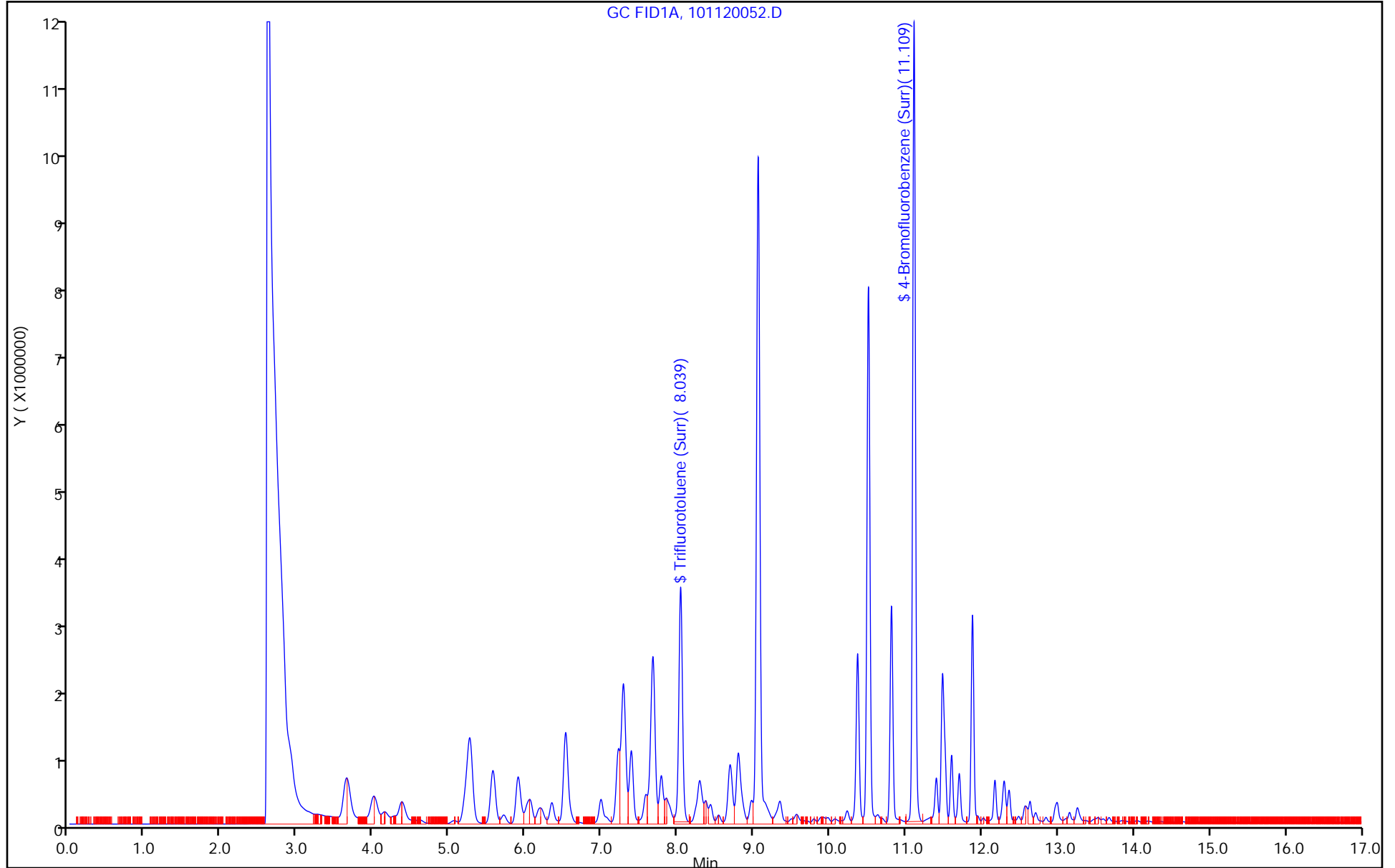
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 51

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120052.D

Injection Date: 12-Oct-2020 07:31:30

Instrument ID: SEA006

Lims ID: ccv

Client ID:

Operator ID: DCV

ALS Bottle#: 51

Worklist Smp#: 52

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

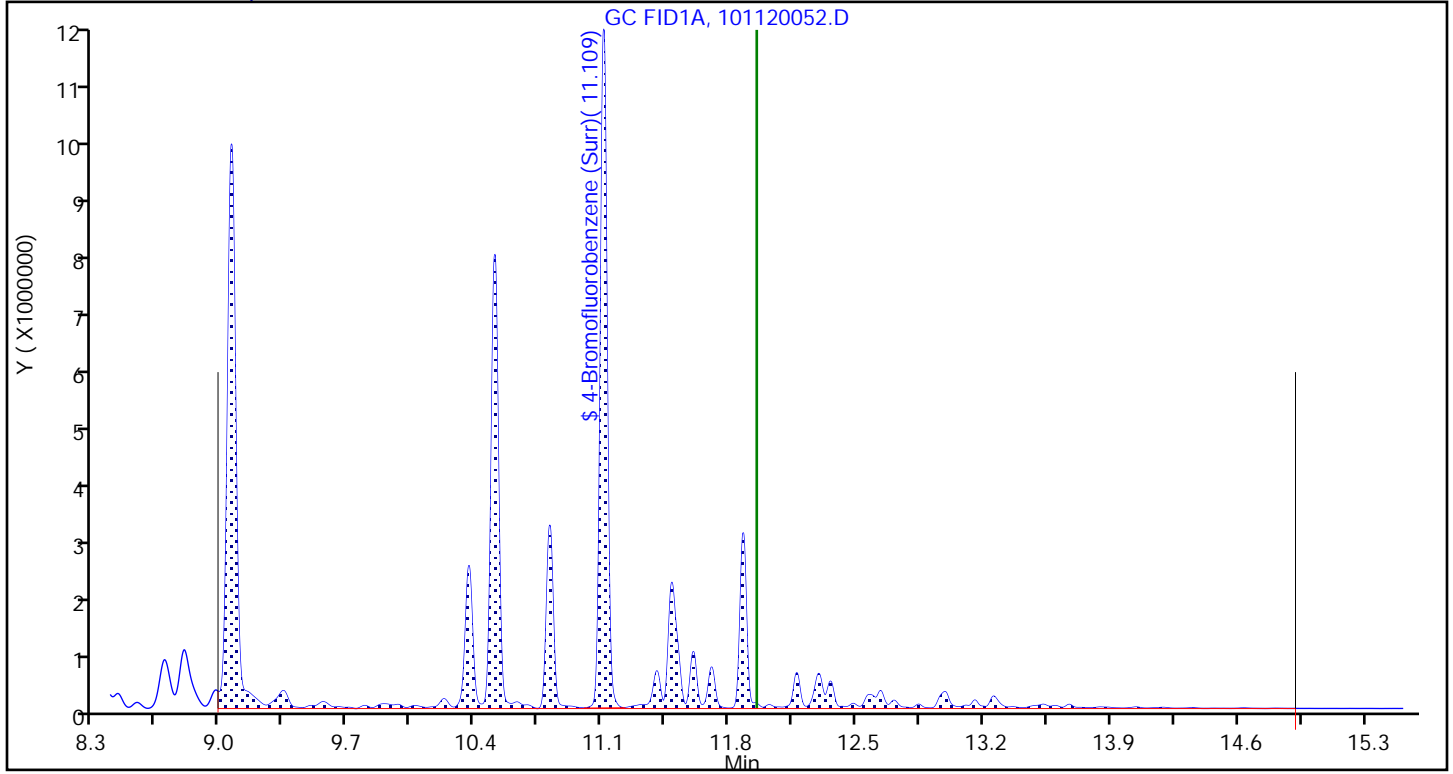
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**





FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/59 Calibration Date: 10/12/2020 10:23  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120059.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline	Lin2		100201		843	1000	-15.7	20.0
Trifluorotoluene (Surr)	Ave	178134	172287		58.0	60.0	-3.3	20.0
4-Bromofluorobenzene (Surr)	Ave	160838	135625		169	200	-15.7	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/59 Calibration Date: 10/12/2020 10:23  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120059.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline	11.95	8.98	14.92
Trifluorotoluene (Surr)	8.04	7.94	8.14
4-Bromofluorobenzene (Surr)	11.11	11.01	11.21

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120059.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 12-Oct-2020 10:23:30 ALS Bottle#: 58 Worklist Smp#: 59  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: CCV  
 Operator ID: DCV Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 11:06:25 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: mckelljs Date: 12-Oct-2020 11:06:25

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.042	8.038	0.004	10333102	60.0	58.0	
A 7 GRO	8.584	(5.179-11.989)		160050078	NC	NC	
A 5 C6-C10	8.695	(5.811-11.579)		137221422	NC	NC	
A 8 C6-C12	9.577	(5.811-13.342)		159939075	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.110	11.108	0.002	27124912	200.0	168.6	
A 11 Gasoline	11.952	(8.984-14.920)		100200569	1000.0	843.3	

**QC Flag Legend**

Processing Flags  
 NC - Not Calibrated

**Reagents:**

V2.4TFT-EX\_00057 Amount Added: 2.50 Units: mL  
 GRO\_LCS\_00064 Amount Added: 50.00 Units: uL  
 BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120059.D

Injection Date: 12-Oct-2020 10:23:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: ccv

Worklist Smp#: 59

Client ID:

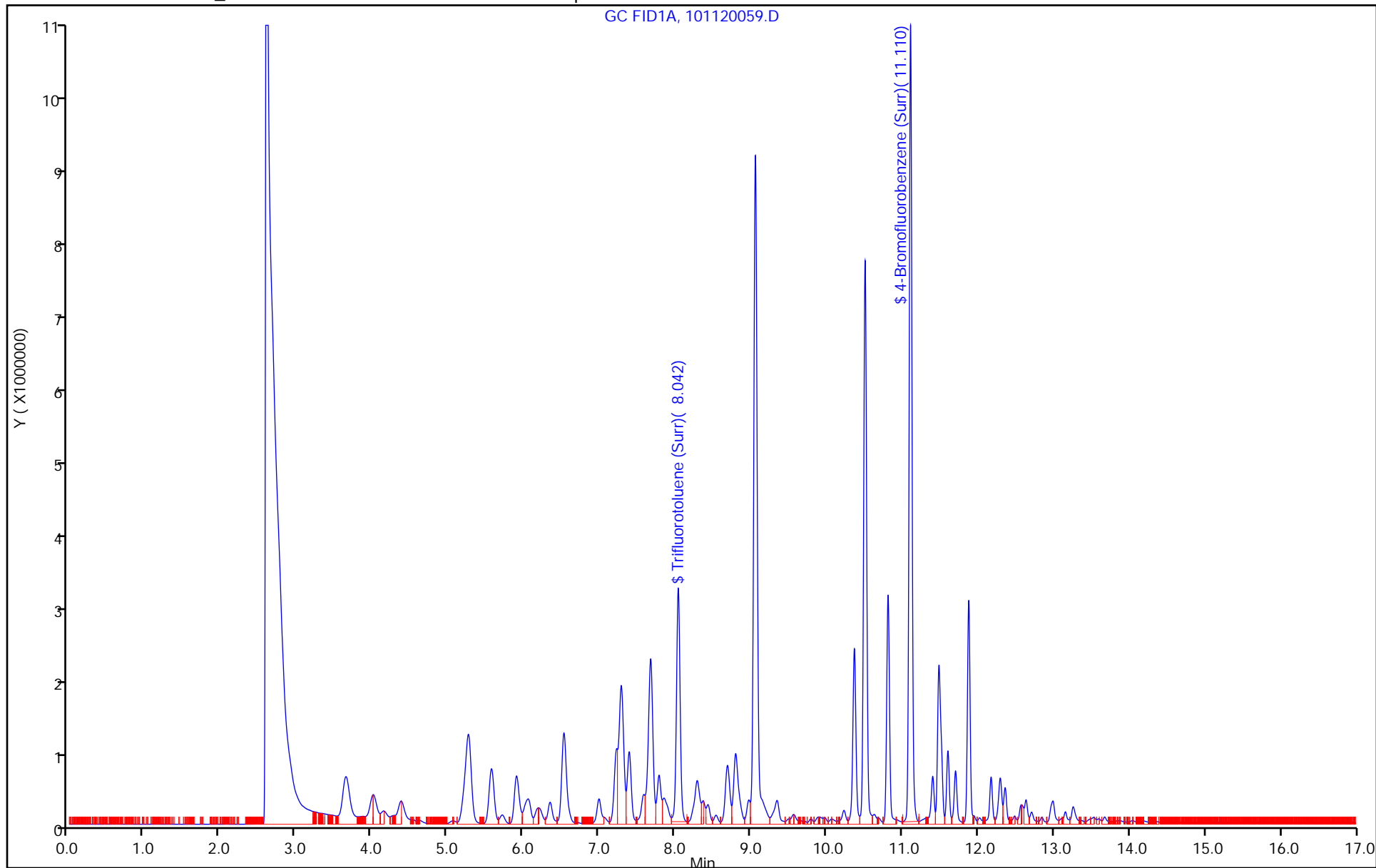
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 58

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120059.D

Injection Date: 12-Oct-2020 10:23:30

Instrument ID: SEA006

Lims ID: ccv

Client ID:

Operator ID: DCV

ALS Bottle#: 58

Worklist Smp#: 59

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

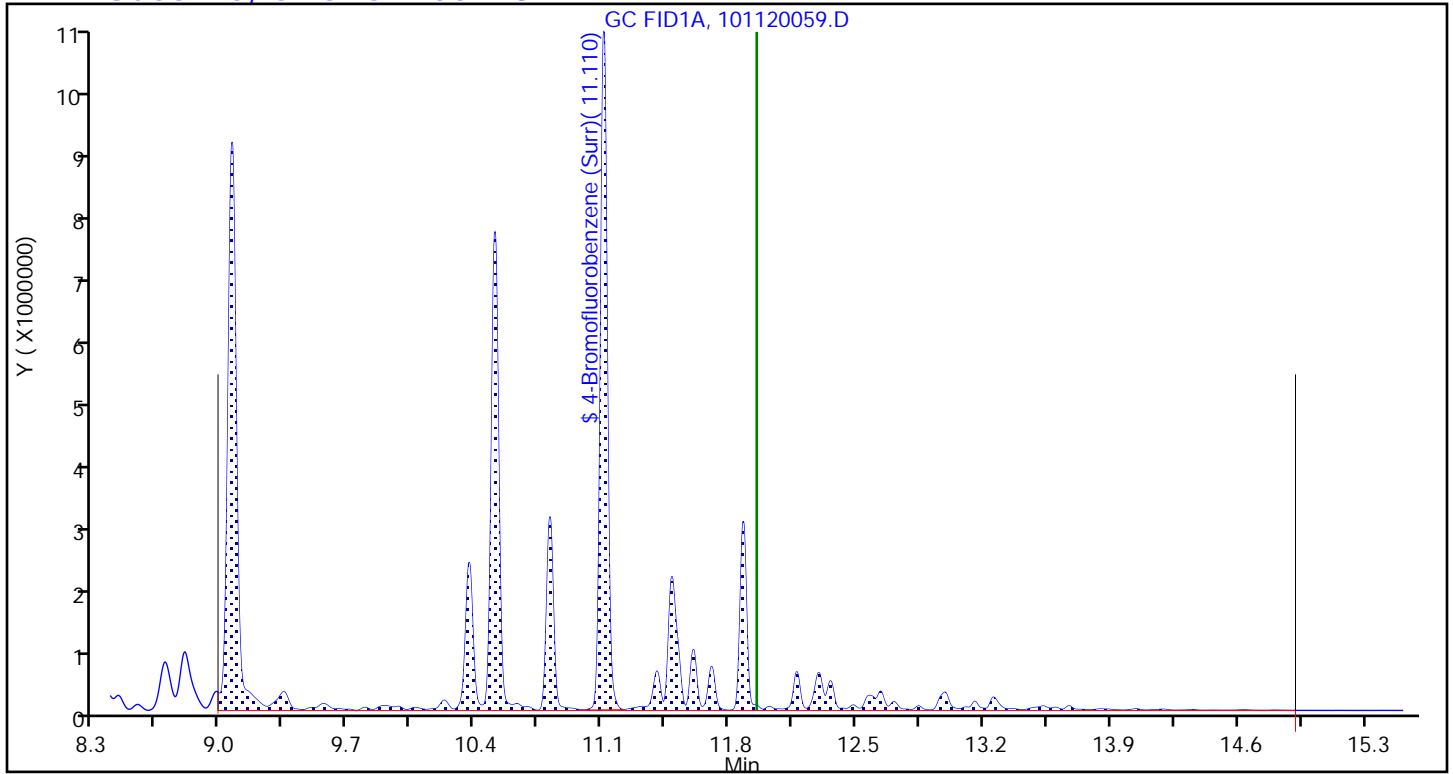
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



FORM VII  
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/63 Calibration Date: 10/12/2020 12:02  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120063.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline	Lin2		127336		1080	1000	8.1	20.0
Trifluorotoluene (Surr)	Ave	178134	166163		55.9	60.0	-6.7	20.0
4-Bromofluorobenzene (Surr)	Ave	160838	140254		174	200	-12.8	20.0

FORM VII  
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340536/63 Calibration Date: 10/12/2020 12:02  
 Instrument ID: SEA006 Calib Start Date: 03/31/2020 19:52  
 GC Column: RTX-VRX ID: 0.45 (mm) Calib End Date: 03/31/2020 23:05  
 Lab File ID: 101120063.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Gasoline	11.95	8.98	14.92
Trifluorotoluene (Surr)	8.04	7.94	8.14
4-Bromofluorobenzene (Surr)	11.11	11.01	11.21

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120063.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 12-Oct-2020 12:02:30 ALS Bottle#: 62 Worklist Smp#: 63  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ccv  
 Operator ID: DCV Instrument ID: SEA006  
 Sublist: chrom-GRO\_SEA006\*sub10  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 14:30:52 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: mckelljs Date: 12-Oct-2020 14:30:08

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.044	8.038	0.006	9965763	60.0	55.9	
A 7 GRO	8.584	(5.179-11.989)		172652451	NC	NC	
A 5 C6-C10	8.695	(5.811-11.579)		142434491	NC	NC	
A 8 C6-C12	9.577	(5.811-13.342)		183833488	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.110	11.108	0.002	28050740	200.0	174.4	
A 11 Gasoline	11.952	(8.984-14.920)		127336476	1000.0	1080.7	

**QC Flag Legend**

Processing Flags  
 NC - Not Calibrated

**Reagents:**

V2.4TFT-EX\_00057 Amount Added: 2.50 Units: mL  
 GRO\_LCS\_00064 Amount Added: 50.00 Units: uL  
 BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120063.D

Injection Date: 12-Oct-2020 12:02:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: ccv

Worklist Smp#: 63

Client ID:

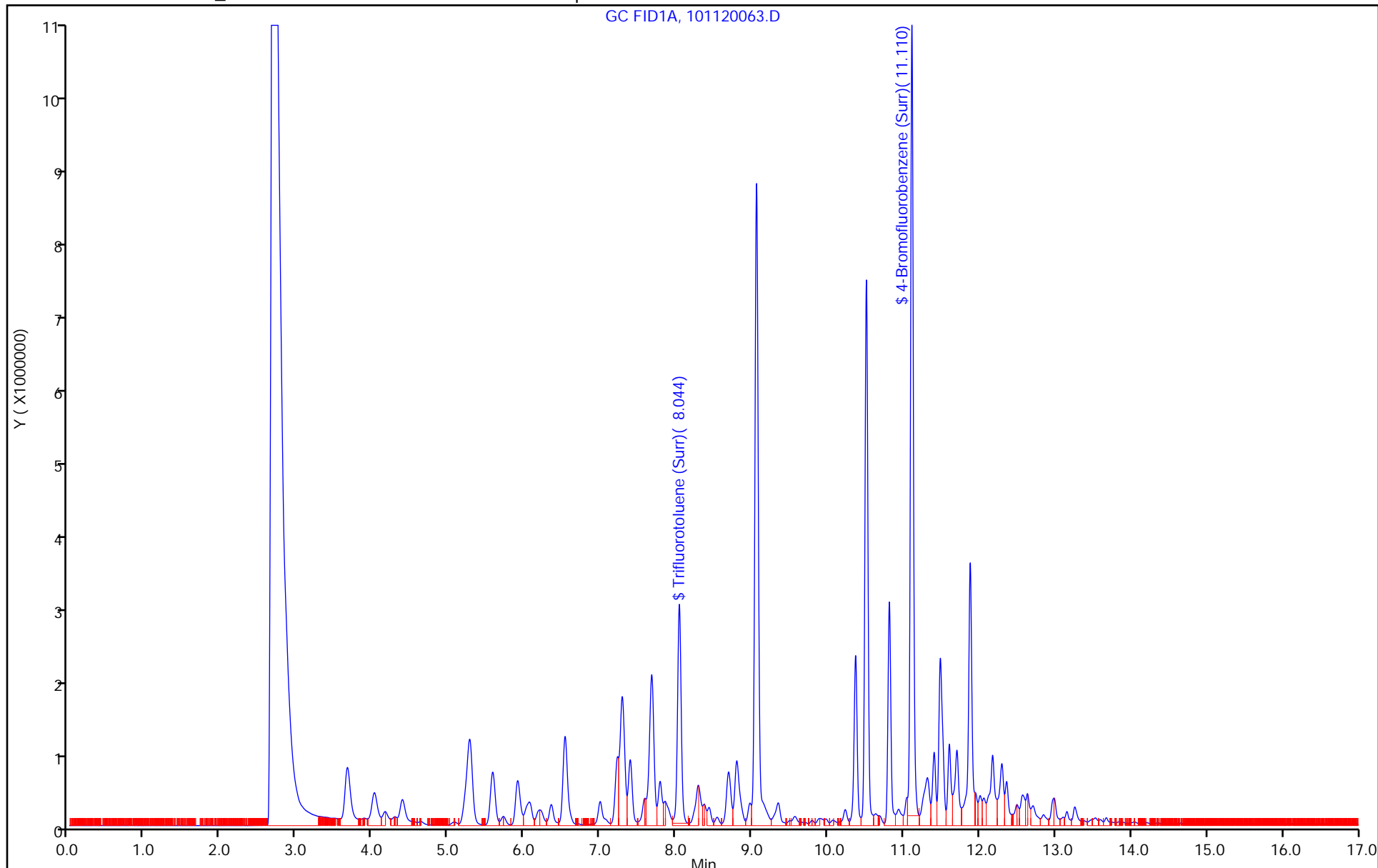
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 62

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120063.D

Injection Date: 12-Oct-2020 12:02:30

Instrument ID: SEA006

Lims ID: ccv

Client ID:

Operator ID: DCV

ALS Bottle#: 62

Worklist Smp#: 63

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

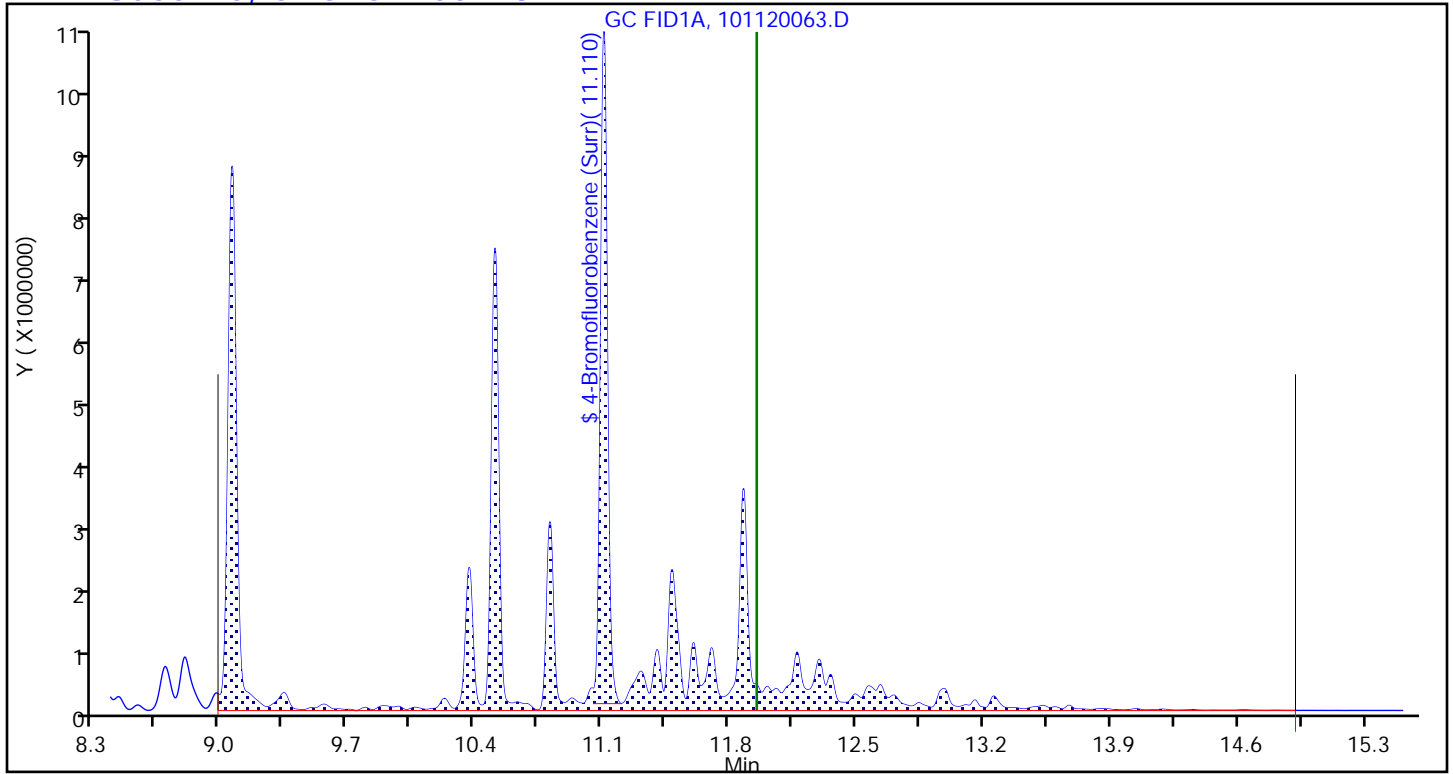
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-340534/1-A  
 Matrix: Solid Lab File ID: 101120005.D  
 Analysis Method: NWTPH-Gx Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10(g) Date Analyzed: 10/11/2020 12:18  
 Soil Aliquot Vol: 1.075 (mL) Dilution Factor: 1  
 Soil Extract Vol.: 10 (mL) GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Medium  
 Analysis Batch No.: 340536 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
STL00228	Gasoline	ND		5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	81		50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120005.D  
 Lims ID: MB 580-340534/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 11-Oct-2020 12:18:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB 580-340534/1-A  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:20:27 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:29:49

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 2-Methylpentane	5.283	5.282	0.001	3671			NC
2 Hexane	5.904	5.908	-0.004	8398			NC
\$ 3 1,2,3-Trifluorobenzene	7.869	7.867	0.002	34			NC
\$ 4 Trifluorotoluene (Surr)	8.043	8.038	0.005	10841950	60.0	60.9	
A 7 GRO	8.584	(5.179-11.989)		2792453			NC
A 5 C6-C10	8.695	(5.811-11.579)		2041239			NC
6 Toluene	9.069	9.062	0.007	197499			NC
A 8 C6-C12	9.577	(5.811-13.342)		3600697			NC
\$ 9 4-Bromofluorobenzene (Surr)	11.110	11.108	0.002	26035219	200.0	161.9	
10 n-Decane	11.664	11.662	0.002	10296			NC
12 1,2,4-Trimethylbenzene	11.880	11.878	0.002	114322			NC
A 11 Gasoline	11.949	(8.984-14.920)		4714998			7.92
13 Dodecane	13.271	13.270	0.001	17837			NC
14 1-Methylnaphthalene	14.808	14.818	-0.010	119051			NC

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120005.D

Injection Date: 11-Oct-2020 12:18:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: MB 580-340534/1-A

Worklist Smp#: 5

Client ID:

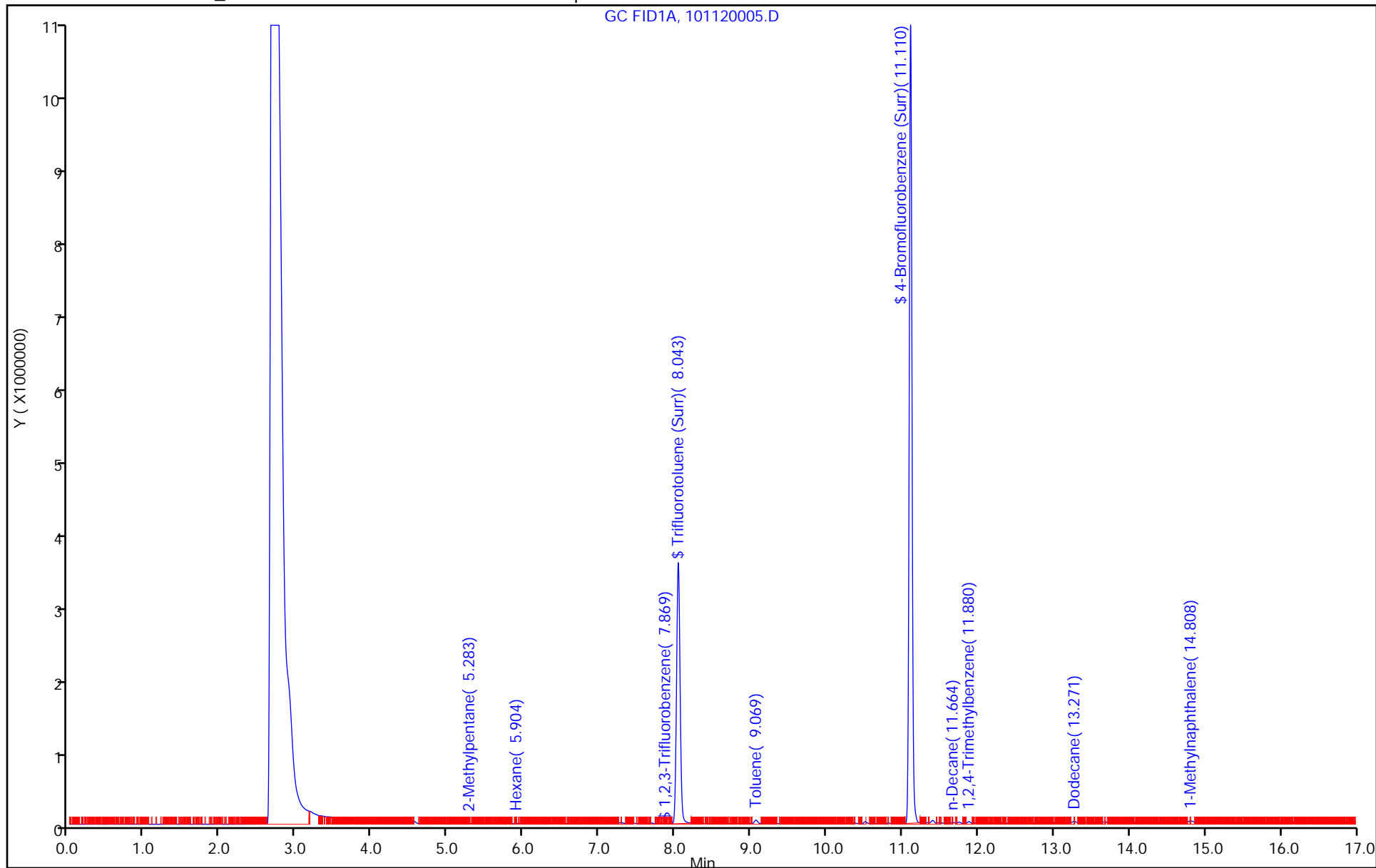
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120005.D  
 Lims ID: MB 580-340534/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 11-Oct-2020 12:18:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB 580-340534/1-A  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:20:27 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:29:49

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Trifluorotoluene (Surr)	60.0	60.9	101.48
\$ 9 4-Bromofluorobenzene (Surr)	200.0	161.9	80.94

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120005.D

Injection Date: 11-Oct-2020 12:18:30

Instrument ID: SEA006

Lims ID: MB 580-340534/1-A

Client ID:

Operator ID: DCV

ALS Bottle#: 5

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

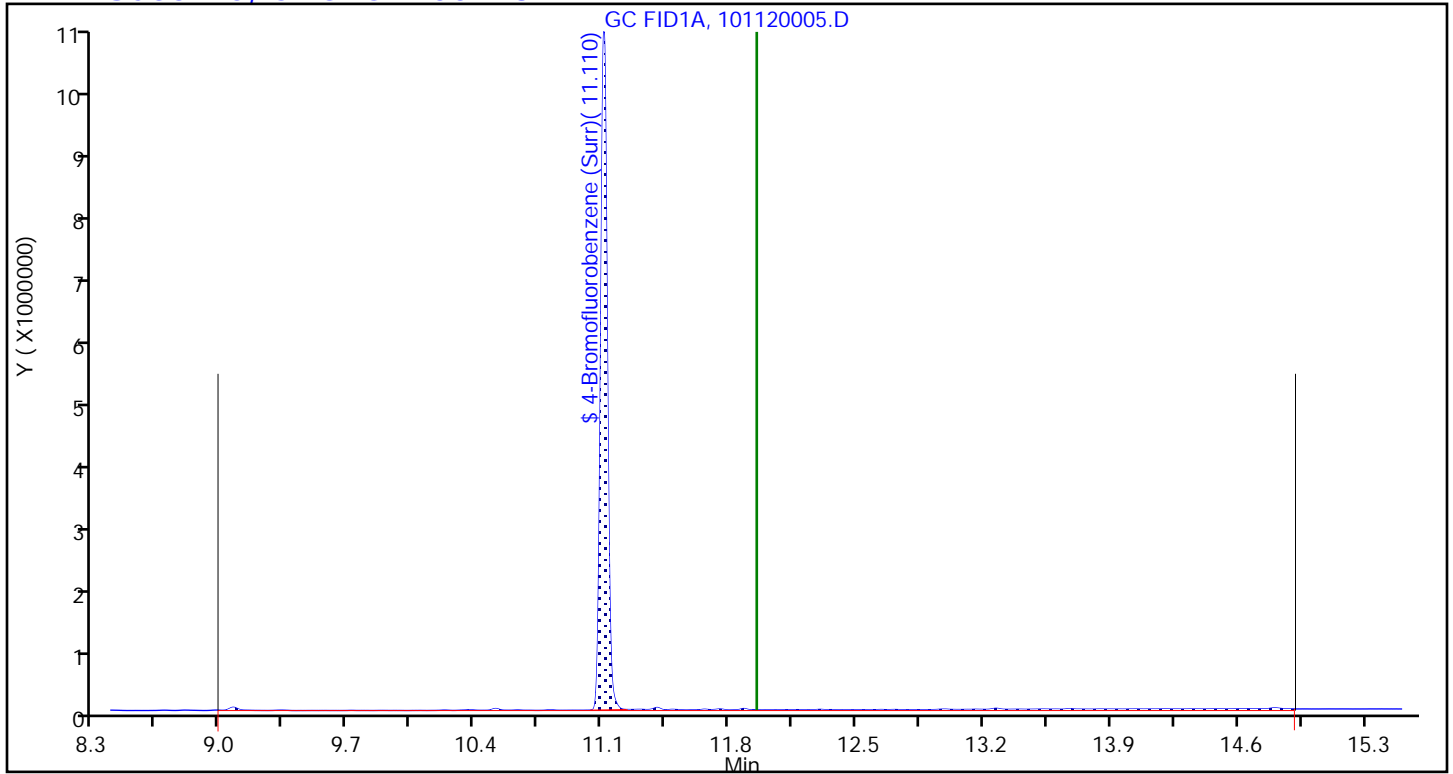
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: CCB 580-340536/60  
 Matrix: Solid Lab File ID: 101120060.D  
 Analysis Method: NWTPH-Gx Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 10/12/2020 10:48  
 Soil Aliquot Vol: 5 (mL) Dilution Factor: 1  
 Soil Extract Vol.: 5 (mL) GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Medium  
 Analysis Batch No.: 340536 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
STL00228	Gasoline	ND		130

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	81		50-150



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120060.D  
 Lims ID: ccb  
 Client ID:  
 Sample Type: CCB  
 Inject. Date: 12-Oct-2020 10:48:30 ALS Bottle#: 59 Worklist Smp#: 60  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ccb  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 14:27:23 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: mckelljs Date: 12-Oct-2020 14:27:31

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 2-Methylpentane	5.279	5.282	-0.003	3505		NC	
2 Hexane	5.911	5.908	0.003	1959		NC	
\$ 3 1,2,3-Trifluorobenzene	7.870	7.867	0.003	266		NC	
\$ 4 Trifluorotoluene (Surr)	8.038	8.038	0.000	9392		0.0527	
A 7 GRO	8.584	(5.179-11.989)		2573403		NC	
A 5 C6-C10	8.695	(5.811-11.579)		1872773		NC	
6 Toluene	9.072	9.062	0.010	131406		NC	
A 8 C6-C12	9.577	(5.811-13.342)		3276188		NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.110	11.108	0.002	25935478	200.0	161.3	
10 n-Decane	11.665	11.662	0.003	6033		NC	
12 1,2,4-Trimethylbenzene	11.879	11.878	0.001	54358		NC	
A 11 Gasoline	11.952	(8.984-14.920)		4210013		3.50	
13 Dodecane	13.270	13.270	0.000	6479		NC	
14 1-Methylnaphthalene	14.820	14.818	0.002	11192		NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120060.D

Injection Date: 12-Oct-2020 10:48:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: ccb

Worklist Smp#: 60

Client ID:

Purge Vol: 5.000 mL

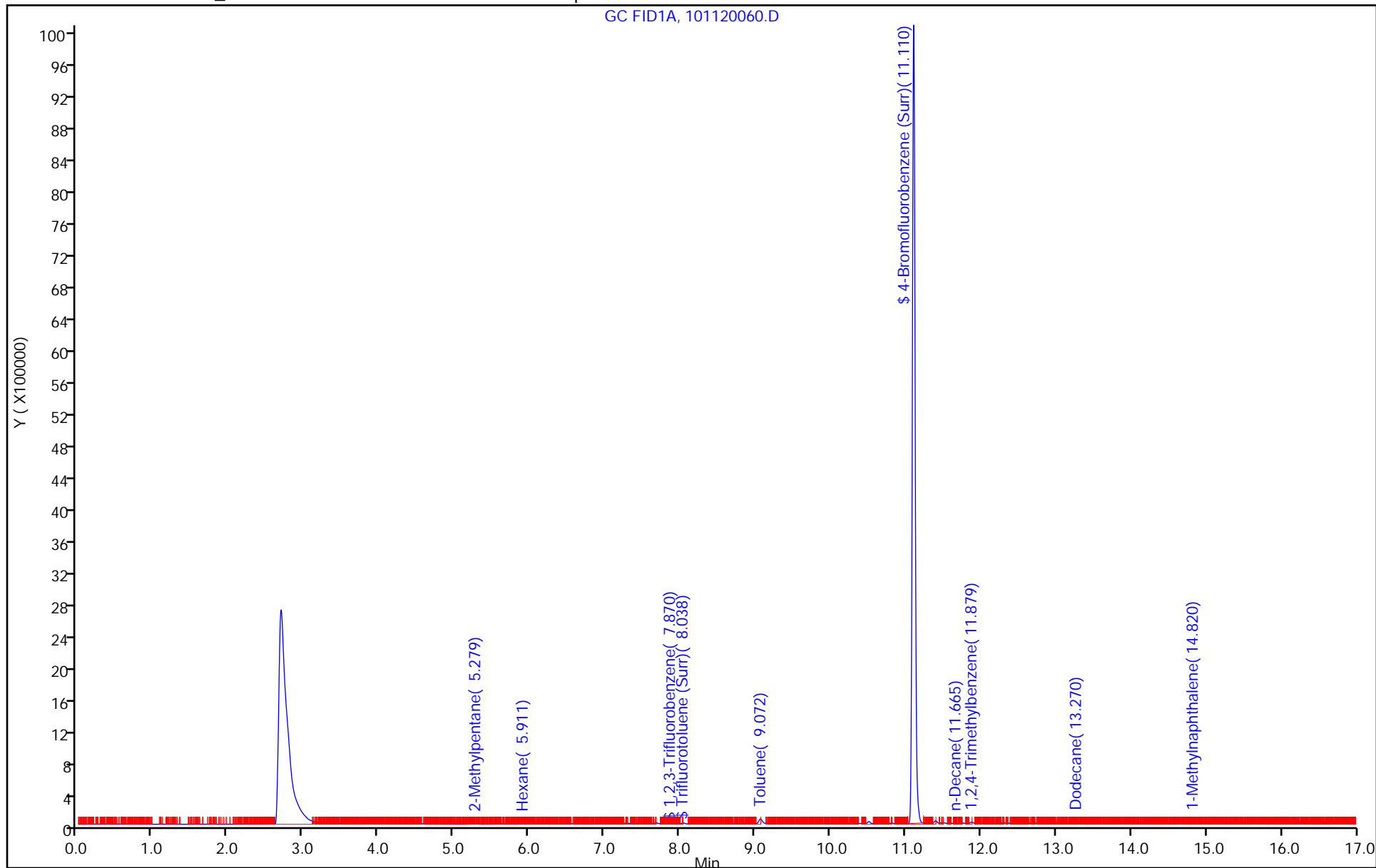
Dil. Factor: 1.0000

ALS Bottle#: 59

Method: GRO\_SEA006

Limit Group: NWTPH-GX

GC FID1A, 101120060.D



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120060.D  
 Lims ID: ccb  
 Client ID:  
 Sample Type: CCB  
 Inject. Date: 12-Oct-2020 10:48:30 ALS Bottle#: 59 Worklist Smp#: 60  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ccb  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 14:27:23 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: mckelljs Date: 12-Oct-2020 14:27:31

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Trifluorotoluene (Surr)	0	0.0527	0.00
\$ 9 4-Bromofluorobenzene (Surr)	200.0	161.3	80.63

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120060.D

Injection Date: 12-Oct-2020 10:48:30

Instrument ID: SEA006

Lims ID: ccb

Client ID:

Operator ID: DCV

ALS Bottle#: 59

Worklist Smp#: 60

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

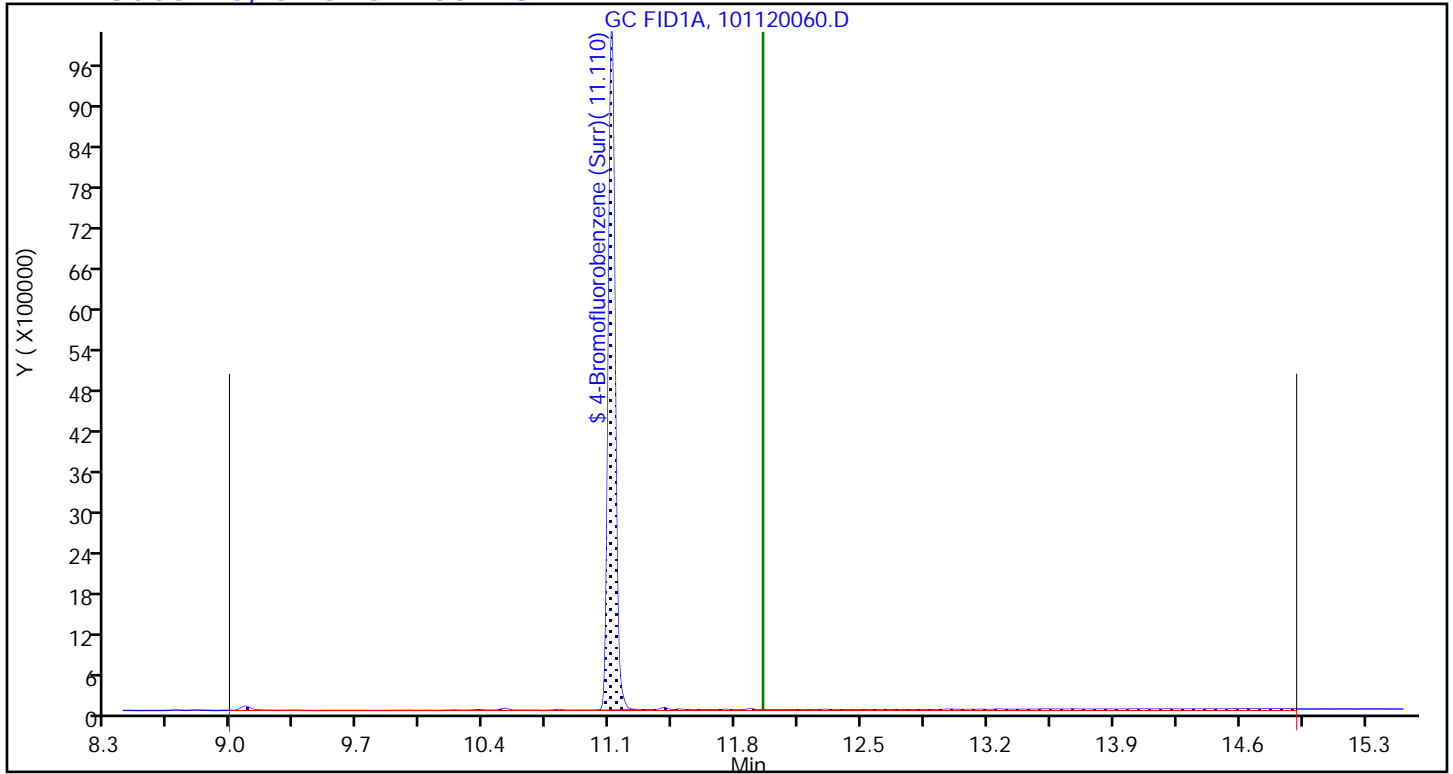
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector GC FID1A

A 11 Gasoline, CAS: STL00228



FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-340534/2-A  
 Matrix: Solid Lab File ID: 101120006.D  
 Analysis Method: NWTPH-Gx Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10(g) Date Analyzed: 10/11/2020 12:42  
 Soil Aliquot Vol: 1.075 (mL) Dilution Factor: 1  
 Soil Extract Vol.: 10 (mL) GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Medium  
 Analysis Batch No.: 340536 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
STL00228	Gasoline	36.8		5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120006.D  
 Lims ID: LCS 580-340534/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 11-Oct-2020 12:42:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCS 580-340534/2-A  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:20:27 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:30:11

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.040	8.038	0.002	12128499	60.0	68.1	
A 7 GRO	8.584	(5.179-11.989)		186821623	NC	NC	
A 5 C6-C10	8.695	(5.811-11.579)		161303148	NC	NC	
A 8 C6-C12	9.577	(5.811-13.342)		186041452	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.110	11.108	0.002	29045412	200.0	180.6	
A 11 Gasoline	11.949	(8.984-14.920)		109057794	1000.0	920.8	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120006.D

Injection Date: 11-Oct-2020 12:42:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: LCS 580-340534/2-A

Worklist Smp#: 6

Client ID:

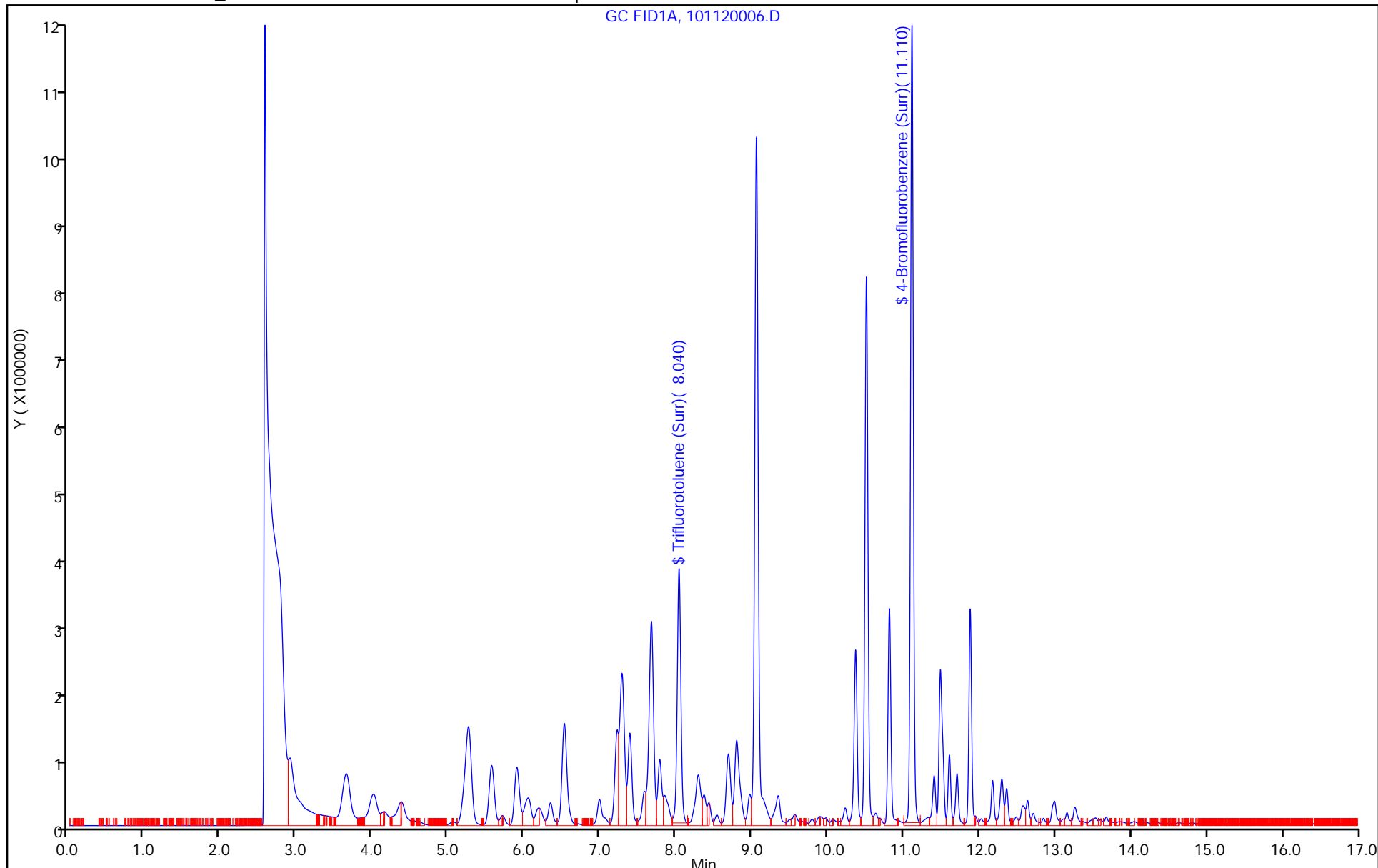
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 6

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120006.D  
 Lims ID: LCS 580-340534/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 11-Oct-2020 12:42:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCS 580-340534/2-A  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:20:27 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:30:11

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Trifluorotoluene (Surr)	60.0	68.1	113.52
\$ 9 4-Bromofluorobenzene (Surr)	200.0	180.6	90.29



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120006.D

Injection Date: 11-Oct-2020 12:42:30

Instrument ID: SEA006

Lims ID: LCS 580-340534/2-A

Client ID:

Operator ID: DCV

ALS Bottle#: 6

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

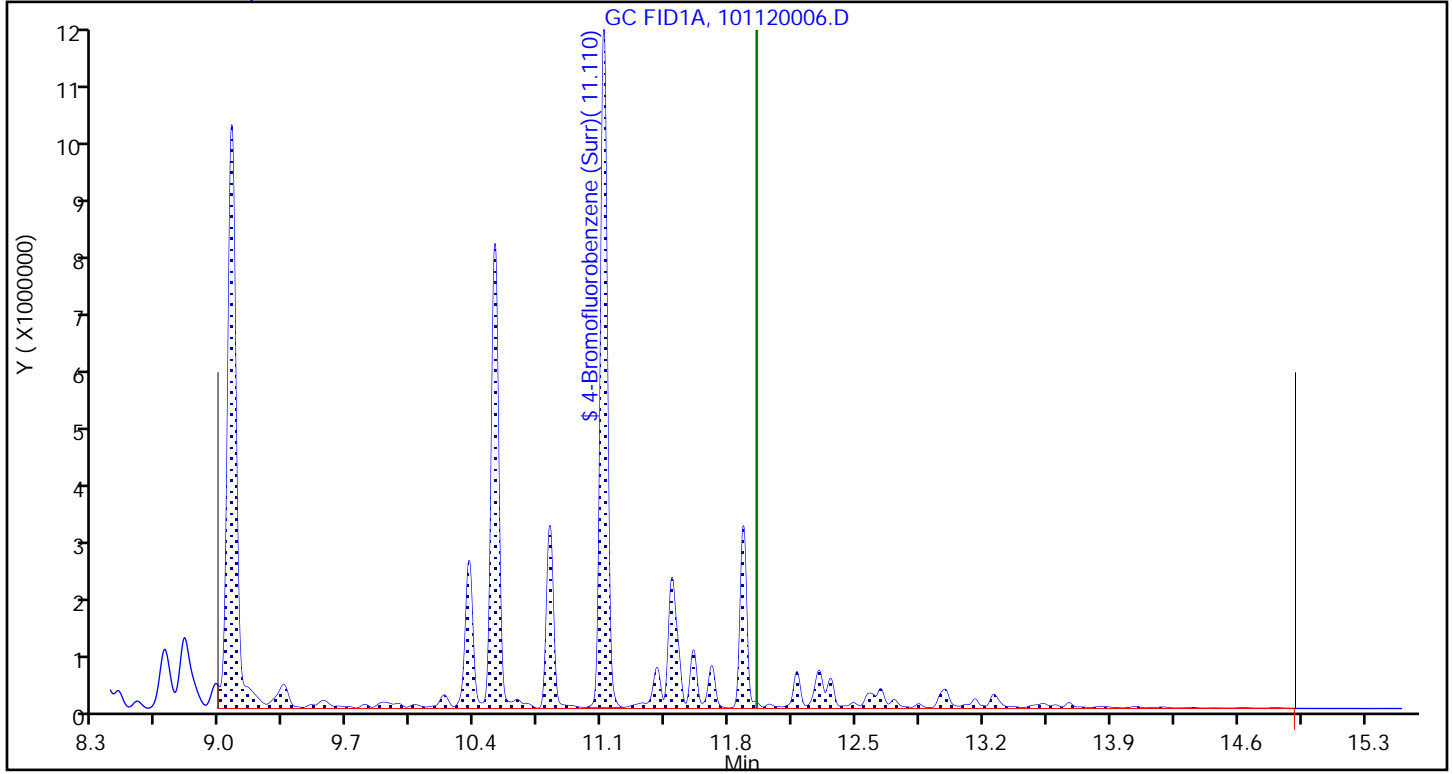
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

A 11 Gasoline, CAS: STL00228



FORM I  
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-340534/3-A  
 Matrix: Solid Lab File ID: 101120007.D  
 Analysis Method: NWTPH-Gx Date Collected: \_\_\_\_\_  
 Sample wt/vol: 10(g) Date Analyzed: 10/11/2020 13:07  
 Soil Aliquot Vol: 1.075 (mL) Dilution Factor: 1  
 Soil Extract Vol.: 10 (mL) GC Column: RTX-VRX ID: 0.45 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Medium  
 Analysis Batch No.: 340536 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
STL00228	Gasoline	36.4		5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120007.D  
 Lims ID: LCSD 580-340534/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 11-Oct-2020 13:07:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCSD 580-340534/3-A  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:20:27 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:30:31

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 Trifluorotoluene (Surr)	8.044	8.038	0.006	10904058	60.0	61.2	
A 7 GRO	8.584	(5.179-11.989)		177783981	NC	NC	
A 5 C6-C10	8.695	(5.811-11.579)		152274877	NC	NC	
A 8 C6-C12	9.577	(5.811-13.342)		176911786	NC	NC	
\$ 9 4-Bromofluorobenzene (Surr)	11.110	11.108	0.002	26894601	200.0	167.2	
A 11 Gasoline	11.949	(8.984-14.920)		107831608	1000.0	910.0	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

BFBGRO ARCHON\_00044 Amount Added: 2.00 Units: uL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120007.D

Injection Date: 11-Oct-2020 13:07:30

Instrument ID: SEA006

Operator ID: DCV

Lims ID: LCSD 580-340534/3-A

Worklist Smp#: 7

Client ID:

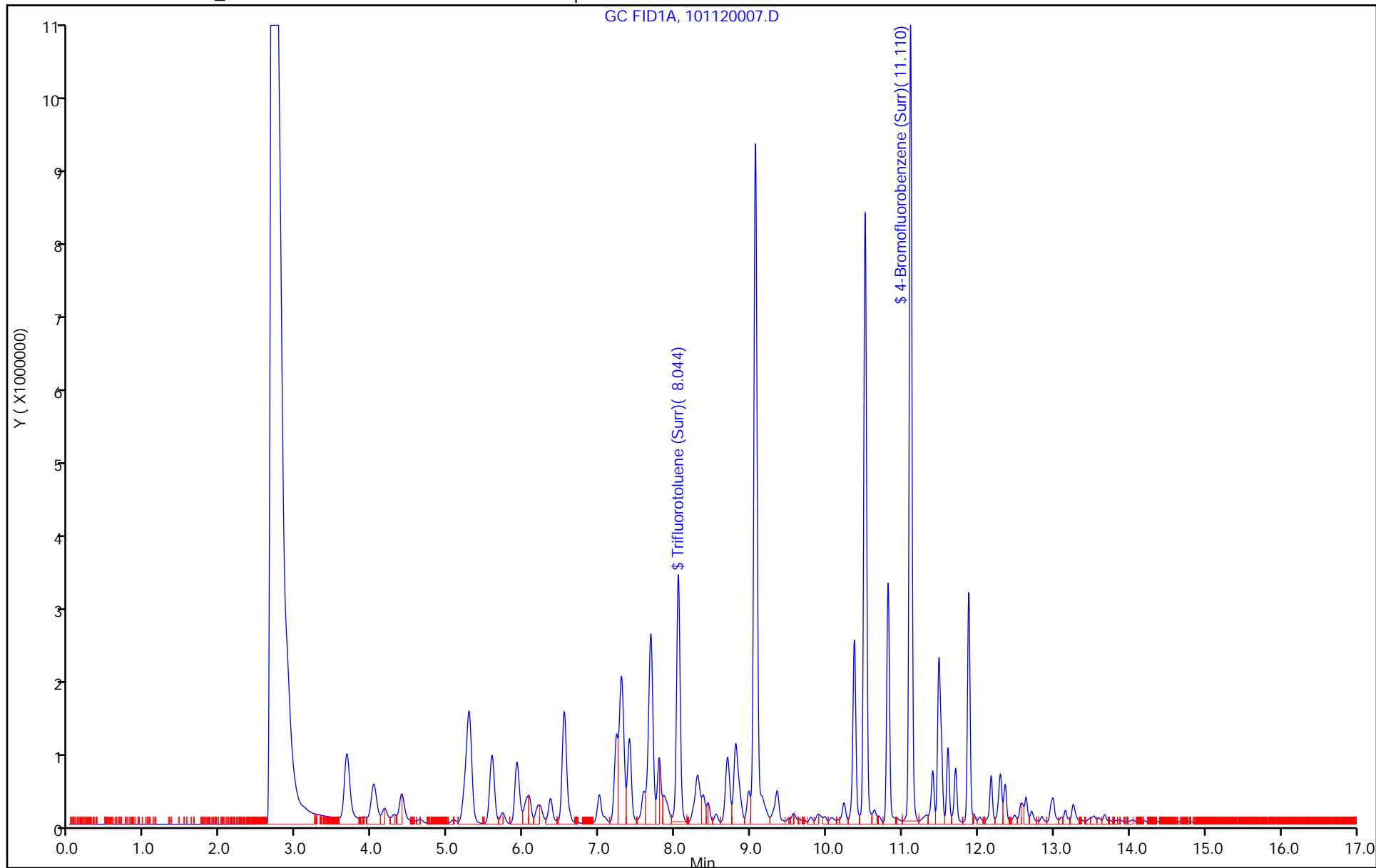
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: GRO\_SEA006

Limit Group: NWTPH-GX



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120007.D  
 Lims ID: LCSD 580-340534/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 11-Oct-2020 13:07:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCSD 580-340534/3-A  
 Operator ID: DCV Instrument ID: SEA006  
 Method: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\GRO\_SEA006.m  
 Limit Group: NWTPH-GX  
 Last Update: 12-Oct-2020 12:20:27 Calib Date: 31-Mar-2020 23:05:30  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Seattle\ChromData\SEA006\20200331-70351.b\03310017.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1642

First Level Reviewer: thaneeratw Date: 12-Oct-2020 12:30:31

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Trifluorotoluene (Surr)	60.0	61.2	102.06
\$ 9 4-Bromofluorobenzene (Surr)	200.0	167.2	83.61

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\SEA006\20201011-73321.b\101120007.D

Injection Date: 11-Oct-2020 13:07:30

Instrument ID: SEA006

Lims ID: LCSD 580-340534/3-A

Client ID:

Operator ID: DCV

ALS Bottle#: 7

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

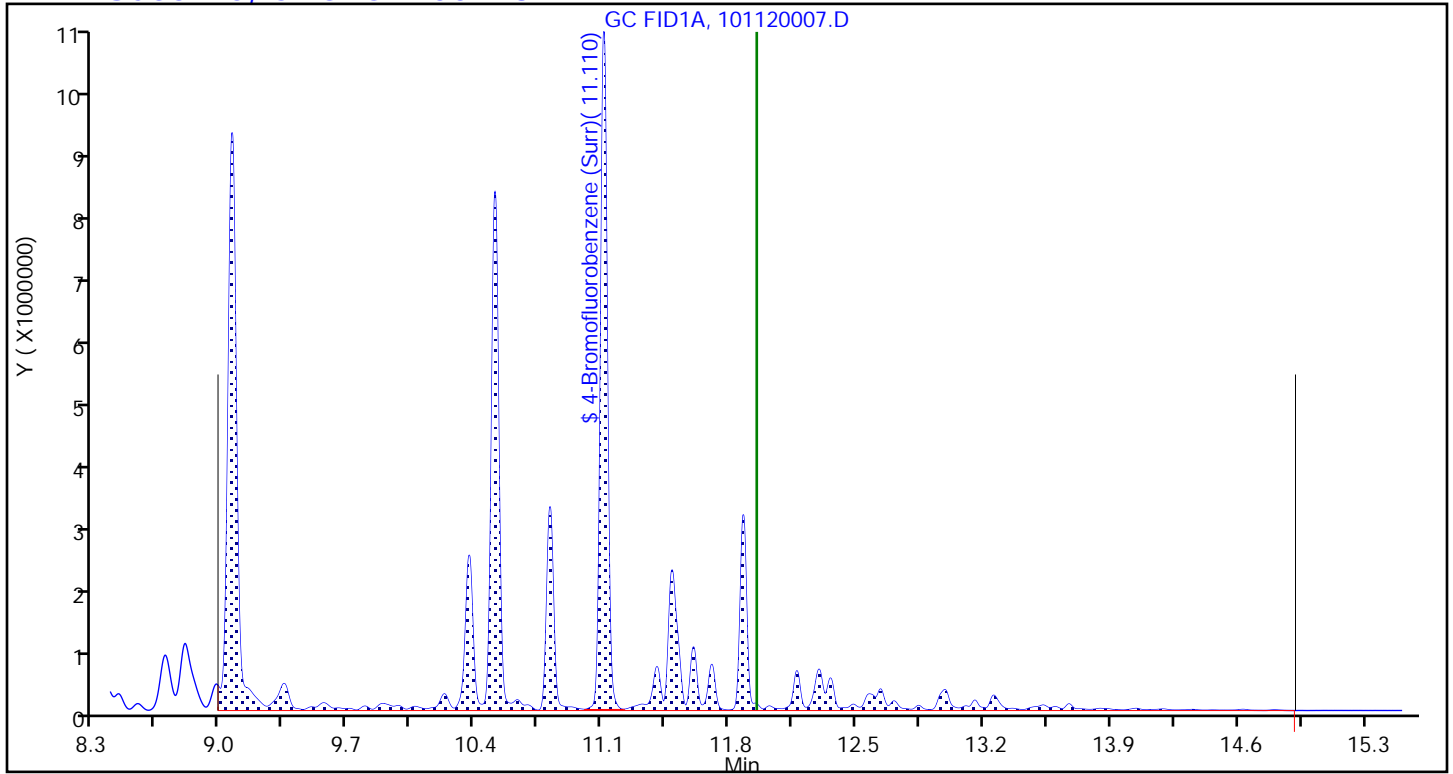
Method: GRO\_SEA006

Limit Group: NWTPH-GX

Column:

Detector: GC FID1A

**A 11 Gasoline, CAS: STL00228**



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 Start Date: 03/31/2020 19:27

Analysis Batch Number: 325923 End Date: 03/31/2020 23:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-325923/7		03/31/2020 19:27	1		RTX-VRX 0.45 (mm)
IC 580-325923/8		03/31/2020 19:52	1	03310009.D	RTX-VRX 0.45 (mm)
IC 580-325923/9		03/31/2020 20:16	1	03310010.D	RTX-VRX 0.45 (mm)
IC 580-325923/10		03/31/2020 20:40	1	03310011.D	RTX-VRX 0.45 (mm)
IC 580-325923/11		03/31/2020 21:04	1	03310012.D	RTX-VRX 0.45 (mm)
ICRT 580-325923/12		03/31/2020 21:28	1	03310013.D	RTX-VRX 0.45 (mm)
IC 580-325923/13		03/31/2020 21:53	1	03310014.D	RTX-VRX 0.45 (mm)
IC 580-325923/14		03/31/2020 22:17	1	03310015.D	RTX-VRX 0.45 (mm)
IC 580-325923/15		03/31/2020 22:41	1	03310016.D	RTX-VRX 0.45 (mm)
IC 580-325923/16		03/31/2020 23:05	1	03310017.D	RTX-VRX 0.45 (mm)
ICV 580-325923/17		03/31/2020 23:29	1	03310018.D	RTX-VRX 0.45 (mm)

## GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: SEA006 Start Date: 10/11/2020 11:28Analysis Batch Number: 340536 End Date: 10/12/2020 12:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-340536/3		10/11/2020 11:28	1	101120003.D	RTX-VRX 0.45 (mm)
CCVRT 580-340536/4		10/11/2020 11:53	1	101120004.D	RTX-VRX 0.45 (mm)
MB 580-340534/1-A		10/11/2020 12:18	1	101120005.D	RTX-VRX 0.45 (mm)
LCS 580-340534/2-A		10/11/2020 12:42	1	101120006.D	RTX-VRX 0.45 (mm)
LCSD 580-340534/3-A		10/11/2020 13:07	1	101120007.D	RTX-VRX 0.45 (mm)
580-98033-5	Trip-Blank-02	10/11/2020 13:32	1	101120008.D	RTX-VRX 0.45 (mm)
580-98033-1	AB-01B-15.5	10/11/2020 14:46	1	101120011.D	RTX-VRX 0.45 (mm)
580-98033-2	AB-02B-16.5	10/11/2020 15:10	1	101120012.D	RTX-VRX 0.45 (mm)
ZZZZZ		10/11/2020 15:35	1		RTX-VRX 0.45 (mm)
ZZZZZ		10/11/2020 15:59	1		RTX-VRX 0.45 (mm)
CCV 580-340536/15		10/11/2020 16:24	1	101120015.D	RTX-VRX 0.45 (mm)
CCV 580-340536/26		10/11/2020 20:53	1	101120026.D	RTX-VRX 0.45 (mm)
CCV 580-340536/30		10/11/2020 22:31	1	101120030.D	RTX-VRX 0.45 (mm)
CCV 580-340536/41		10/12/2020 03:00	1	101120041.D	RTX-VRX 0.45 (mm)
CCV 580-340536/52		10/12/2020 07:31	1	101120052.D	RTX-VRX 0.45 (mm)
CCV 580-340536/59		10/12/2020 10:23	1	101120059.D	RTX-VRX 0.45 (mm)
CCB 580-340536/60		10/12/2020 10:48	1	101120060.D	RTX-VRX 0.45 (mm)
580-98033-4	AB-04B-16.5	10/12/2020 11:13	1	101120061.D	RTX-VRX 0.45 (mm)
580-98033-3	AB-03B-16.5	10/12/2020 11:37	1	101120062.D	RTX-VRX 0.45 (mm)
CCV 580-340536/63		10/12/2020 12:02	1	101120063.D	RTX-VRX 0.45 (mm)



GC VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Batch Number: 340534 Batch Start Date: 10/11/20 10:57 Batch Analyst: Vaughan, Dmiitra C

Batch Method: 5035 Batch End Date: 10/11/20 11:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	MeOHSubtraction	MeOHVol	InitialAmount	FinalAmount
MB 580-340534/1		5035, NWTPH-Gx					10 mL	10 g	10 mL
LCS 580-340534/2		5035, NWTPH-Gx					10 mL	10 g	10 mL
LCS 580-340534/3		5035, NWTPH-Gx					10 mL	10 g	10 mL
580-98033-C-1	AB-01B-15.5	5035, NWTPH-Gx	T	031.855 g	43.70 g	No	10 mL	11.845 g	10 mL
580-98033-C-2	AB-02B-16.5	5035, NWTPH-Gx	T	031.676 g	42.46 g	No	10 mL	10.784 g	10 mL
580-98033-C-3	AB-03B-16.5	5035, NWTPH-Gx	T	031.313 g	44.09 g	No	10 mL	12.777 g	10 mL
580-98033-C-4	AB-04B-16.5	5035, NWTPH-Gx	T	031.791 g	44.00 g	No	10 mL	12.209 g	10 mL
580-98033-B-5	Trip-Blank-02	5035, NWTPH-Gx	T				10 mL	10 g	10 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	GRO_LCS 00064	V2.4TFT-EX 00060	VoaSand 00069	AnalysisComment		
MB 580-340534/1		5035, NWTPH-Gx			10 mL	10 g			
LCS 580-340534/2		5035, NWTPH-Gx		200 uL	10 mL	10 g			
LCS 580-340534/3		5035, NWTPH-Gx		200 uL	10 mL	10 g			
580-98033-C-1	AB-01B-15.5	5035, NWTPH-Gx	T						
580-98033-C-2	AB-02B-16.5	5035, NWTPH-Gx	T						
580-98033-C-3	AB-03B-16.5	5035, NWTPH-Gx	T				over		
580-98033-C-4	AB-04B-16.5	5035, NWTPH-Gx	T				over		
580-98033-B-5	Trip-Blank-02	5035, NWTPH-Gx	T				TB		

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.

NWTPH-Gx

GC VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Batch Number: 340534 Batch Start Date: 10/11/20 10:57 Batch Analyst: Vaughan, Dmitra C

Batch Method: 5035 Batch End Date: 10/11/20 11:15

Batch Notes	
Balance ID	SEA
Blank Matrix ID	SEA239
Pipette/Syringe/Dispenser ID	BT7
Vial Lot Number	0103101F/ scint vial 2574842

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.

# Method NWTPH Dx

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Northwest - Semi-Volatile Petroleum  
Products (GC) by Method NWTPH\_Dx

FORM II  
GC SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low

GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_

Client Sample ID	Lab Sample ID	OTPH #
AB-01B-15.5	580-98033-1	80
AB-02B-16.5	580-98033-2	79
AB-03B-16.5	580-98033-3	80
AB-04B-16.5	580-98033-4	78
	MB 580-340672/1-A	72
	LCS 580-340672/2-A	81
	LCSD 580-340672/3-A	82

OTPH = o-Terphenyl

QC LIMITS  
50-150

# Column to be used to flag recovery values

FORM II NWTPH-Dx

FORM III  
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low Lab File ID: 101420\_006.D

Lab ID: LCS 580-340672/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
#2 Diesel (C10-C24)	500	414	83	70-125	
Motor Oil (>C24-C36)	500	419	84	70-129	

# Column to be used to flag recovery and RPD values

FORM III  
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Matrix: Solid Level: Low Lab File ID: 101420\_007.D

Lab ID: LCS D 580-340672/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (mg/Kg)	LCS D CONCENTRATION (mg/Kg)	LCS D % REC	% RPD	QC LIMITS		#
					RPD	REC	
#2 Diesel (C10-C24)	500	407	81	2	16	70-125	
Motor Oil (>C24-C36)	500	407	81	3	16	70-129	

# Column to be used to flag recovery and RPD values

FORM IV  
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 101420\_005.D Lab Sample ID: MB 580-340672/1-A  
 Matrix: Solid Date Extracted: 10/13/2020 10:35  
 Instrument ID: TAC013 Date Analyzed: 10/14/2020 08:45  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-340672/2-A	101420_006. D	10/14/2020 09:05
	LCSD 580-340672/3-A	101420_007. D	10/14/2020 09:25
AB-01B-15.5	580-98033-1	101420_017. D	10/14/2020 17:06
AB-02B-16.5	580-98033-2	101420_018. D	10/14/2020 18:06
AB-03B-16.5	580-98033-3	101420_019. D	10/14/2020 18:46
AB-04B-16.5	580-98033-4	101420_020. D	10/14/2020 19:06

FORM VIII  
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICRT 580-332639/7 Date Analyzed: 07/09/2020 11:49  
 Instrument ID: TAC013 GC Column: ZB-1HT ID: 0.25 (mm)  
 Lab File ID (Standard): 070920a\_007.D Heated Purge: (Y/N) N  
 Calibration ID: 29422

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				OTPH		
				RT #		
INITIAL CALIBRATION SURROGATE				3.66		
UPPER LIMIT				3.69		
LOWER LIMIT				3.63		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
ICRT 580-332639/7		07/09/2020 11:49	070920a_007.D	3.66		
ICV 580-332639/13		07/09/2020 13:49	070920a_013.D	3.66		

OTPH = o-Terphenyl

OTPH RT Limit = ± 0.03 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII NWTPH-DX



FORM VIII  
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVRT 580-340757/3 Date Analyzed: 10/14/2020 08:25  
 Instrument ID: TAC013 GC Column: ZB-1HT ID: 0.25 (mm)  
 Lab File ID (Standard): 101420\_004.D Heated Purge: (Y/N) N  
 Calibration ID: 29422

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				OTPH		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.52		
UPPER LIMIT				3.55		
LOWER LIMIT				3.49		
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-340757/3		10/14/2020 08:25	101420_004.D	3.52		
MB 580-340672/1-A		10/14/2020 08:45	101420_005.D	3.52		
LCS 580-340672/2-A		10/14/2020 09:05	101420_006.D	3.52		
LCSD 580-340672/3-A		10/14/2020 09:25	101420_007.D	3.52		
CCV 580-340757/14		10/14/2020 12:04	101420_035a.D	3.57 *		
CCV 580-340757/73		10/14/2020 15:46	101420_052b.D	3.52		
580-98033-1	AB-01B-15.5	10/14/2020 17:06	101420_017.D	3.52		
580-98033-2	AB-02B-16.5	10/14/2020 18:06	101420_018.D	3.52		
CCV 580-340757/78		10/14/2020 18:26	101420_018a.D	3.52		
580-98033-3	AB-03B-16.5	10/14/2020 18:46	101420_019.D	3.52		
580-98033-4	AB-04B-16.5	10/14/2020 19:06	101420_020.D	3.52		
CCV 580-340757/25		10/14/2020 20:25	101420_026.D	3.52		

OTPH = o-Terphenyl

OTPH RT Limit = ± 0.03 minutes of surrogate RT

# Column used to flag values outside QC limits

FORM VIII NWTPH-DX

FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-01B-15.5 Lab Sample ID: 580-98033-1  
 Matrix: Solid Lab File ID: 101420\_017.D  
 Analysis Method: NWTPH-Dx Date Collected: 10/05/2020 12:05  
 Extraction Method: 3546 Date Extracted: 10/13/2020 10:35  
 Sample wt/vol: 10.030(g) Date Analyzed: 10/14/2020 17:06  
 Con. Extract Vol.: 10(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)  
 % Moisture: 22.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 340757 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
STL00163	#2 Diesel (C10-C24)	ND		64	
STL00299	Motor Oil (>C24-C36)	ND		64	

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_017.D  
 Lims ID: 580-98033-D-1-A  
 Client ID: AB-01B-15.5  
 Sample Type: Client  
 Inject. Date: 14-Oct-2020 17:06:50 ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 580-98033-D-1-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 15-Oct-2020 10:05:18 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 10:07:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 7 C10-C24	2.908	(0.942-4.873)		964155	5.82	
\$ 10 o-Terphenyl	3.518	3.520	-0.002	1247704	8.25	
A 15 Motor Oil	6.163	(4.873-7.452)		1265167	17.9	

**QC Flag Legend**

Processing Flags

**Reagents:**

MeCl2\_CT\_00185 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_017.D

Injection Date: 14-Oct-2020 17:06:50

Instrument ID: TAC013

Lims ID: 580-98033-D-1-A

Lab Sample ID: 580-98033-1

Client ID: AB-01B-15.5

Operator ID: adb

ALS Bottle#: 16

Worklist Smp#: 16

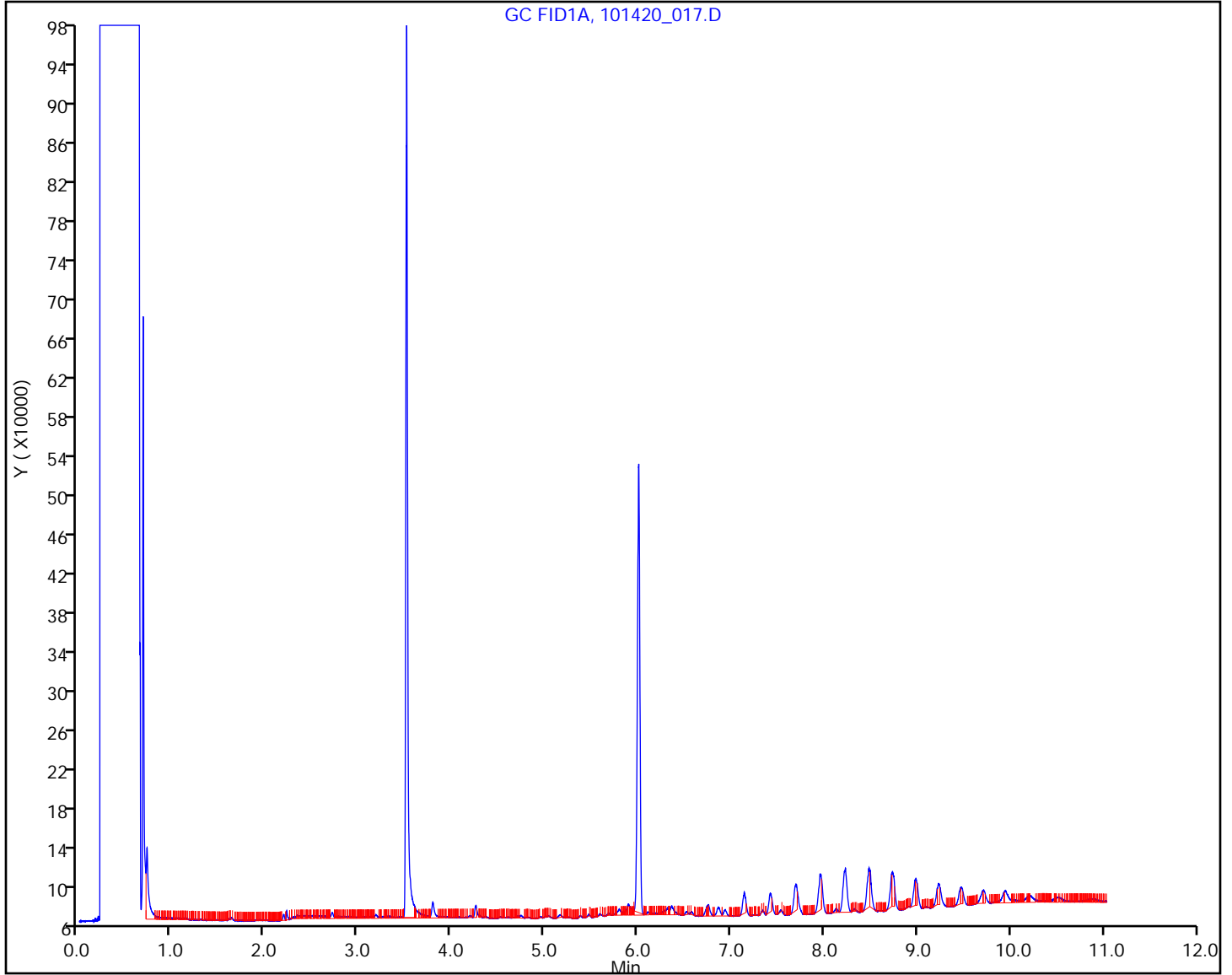
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_017.D  
 Lims ID: 580-98033-D-1-A  
 Client ID: AB-01B-15.5  
 Sample Type: Client  
 Inject. Date: 14-Oct-2020 17:06:50 ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 580-98033-D-1-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 15-Oct-2020 10:05:18 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 10:07:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 n-Decanoic Acid (Surr)	0.0	0	0.00
\$ 10 o-Terphenyl	10.3	8.25	80.36

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_017.D

Injection Date: 14-Oct-2020 17:06:50

Instrument ID: TAC013

Lims ID: 580-98033-D-1-A

Lab Sample ID: 580-98033-1

Client ID: AB-01B-15.5

Operator ID: adb

ALS Bottle#: 16 Worklist Smp#: 16

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

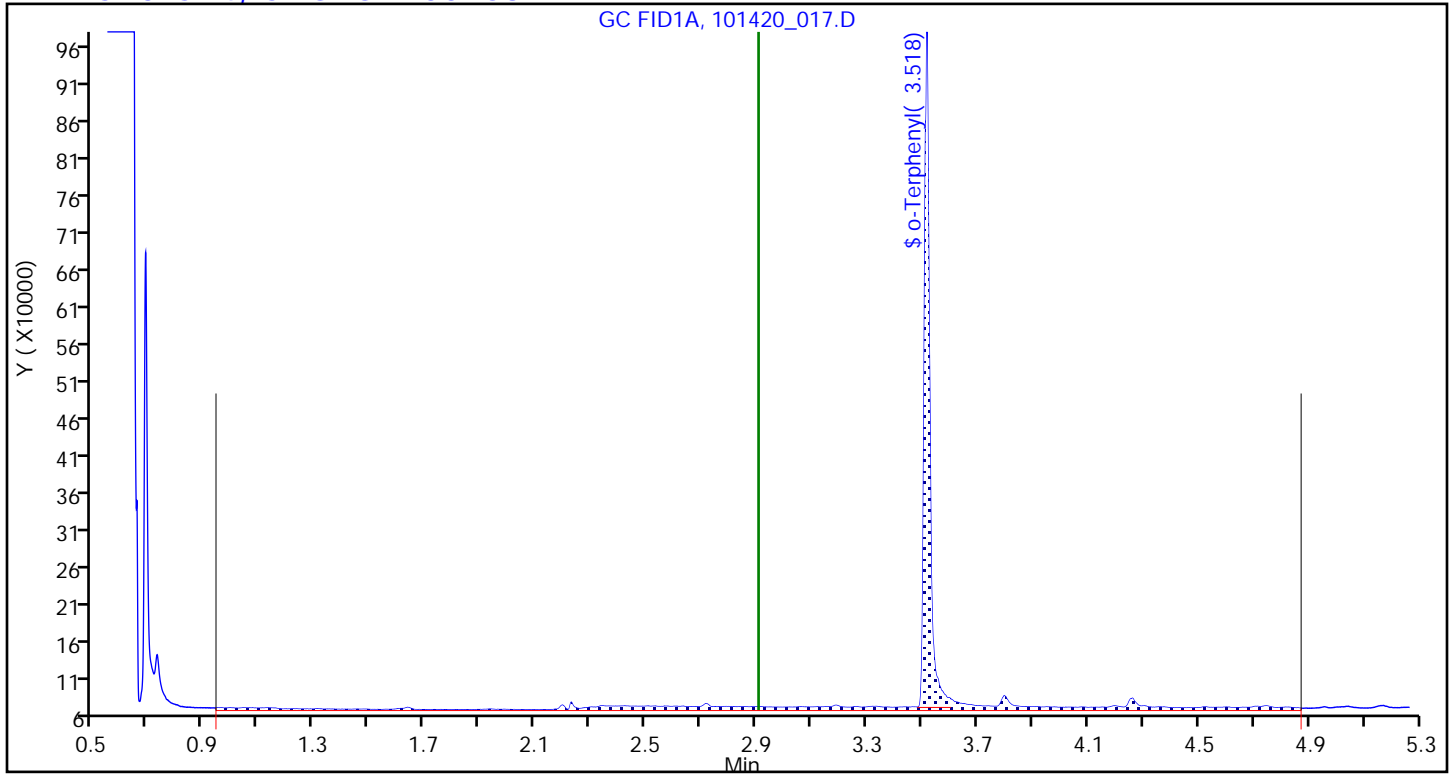
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_017.D

Injection Date: 14-Oct-2020 17:06:50

Instrument ID: TAC013

Lims ID: 580-98033-D-1-A

Lab Sample ID: 580-98033-1

Client ID: AB-01B-15.5

Operator ID: adb

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

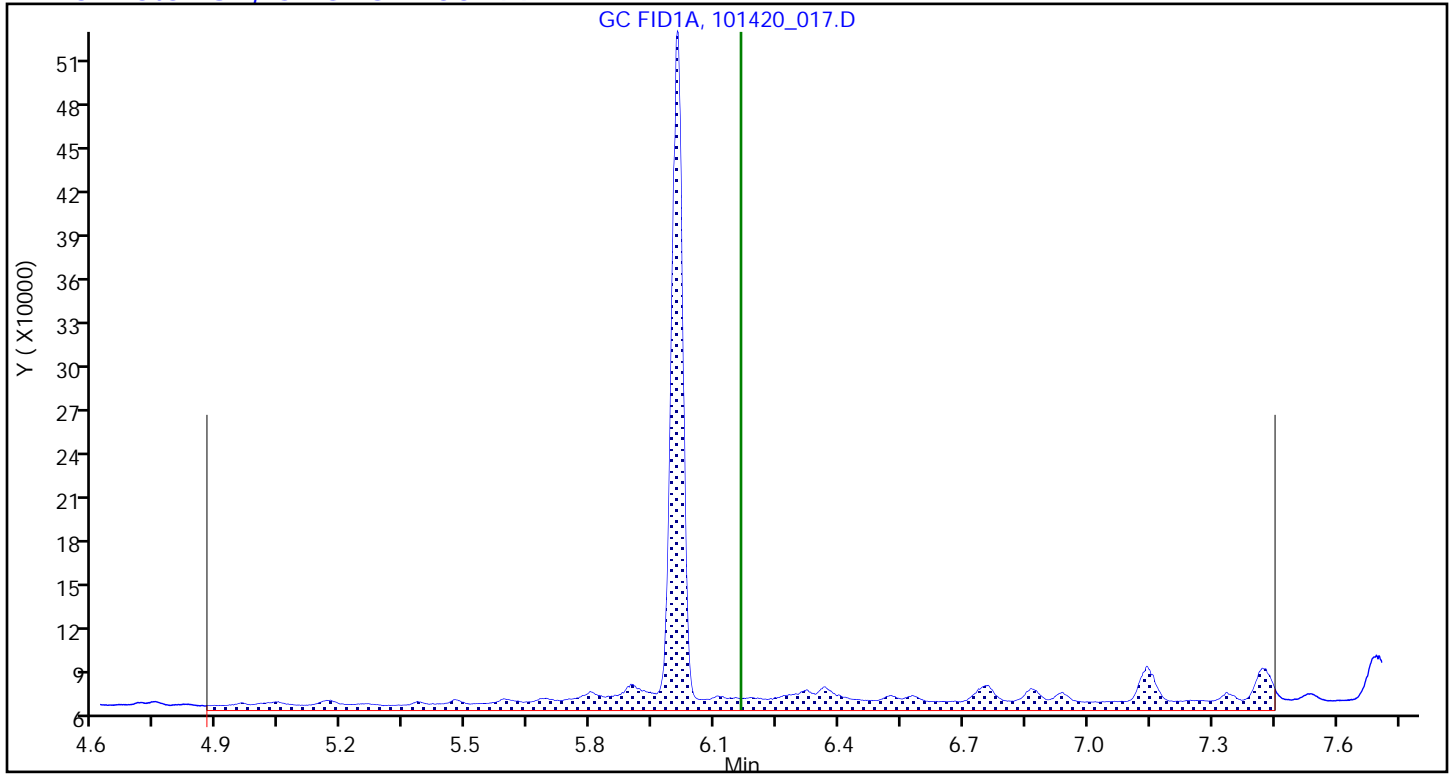
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-02B-16.5 Lab Sample ID: 580-98033-2  
 Matrix: Solid Lab File ID: 101420\_018.D  
 Analysis Method: NWTPH-Dx Date Collected: 10/05/2020 12:35  
 Extraction Method: 3546 Date Extracted: 10/13/2020 10:35  
 Sample wt/vol: 10.330(g) Date Analyzed: 10/14/2020 18:06  
 Con. Extract Vol.: 10(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)  
 % Moisture: 22.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 340757 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
STL00163	#2 Diesel (C10-C24)	93		63	
STL00299	Motor Oil (>C24-C36)	ND		63	

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		50-150



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_018.D  
 Lims ID: 580-98033-D-2-A  
 Client ID: AB-02B-16.5  
 Sample Type: Client  
 Inject. Date: 14-Oct-2020 18:06:42 ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 580-98033-D-2-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 15-Oct-2020 10:17:17 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 10:17:17

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 7 C10-C24	2.908	(0.942-4.873)		10388440	73.9	
\$ 10 o-Terphenyl	3.517	3.520	-0.003	1231589	8.15	
A 15 Motor Oil	6.163	(4.873-7.452)		681621	9.00	

QC Flag Legend

Processing Flags

Reagents:

MeCl2\_CT\_00185 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_018.D

Injection Date: 14-Oct-2020 18:06:42

Instrument ID: TAC013

Lims ID: 580-98033-D-2-A

Lab Sample ID: 580-98033-2

Client ID: AB-02B-16.5

Operator ID: adb

ALS Bottle#: 17

Worklist Smp#: 17

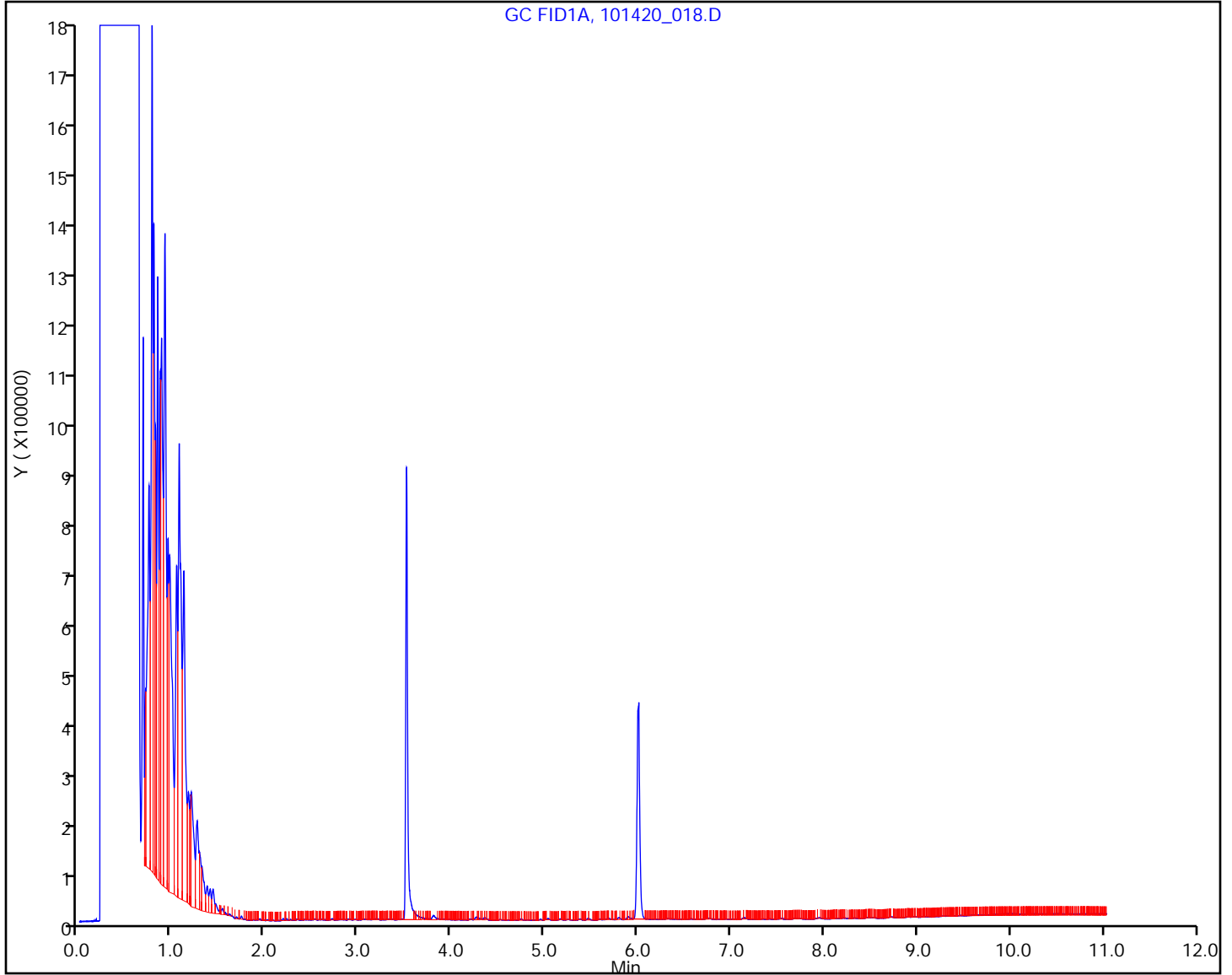
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_018.D  
 Lims ID: 580-98033-D-2-A  
 Client ID: AB-02B-16.5  
 Sample Type: Client  
 Inject. Date: 14-Oct-2020 18:06:42 ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 580-98033-D-2-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 15-Oct-2020 10:17:17 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 10:17:17

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 n-Decanoic Acid (Surr)	0.0	0	0.00
\$ 10 o-Terphenyl	10.3	8.15	79.33

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_018.D

Injection Date: 14-Oct-2020 18:06:42

Instrument ID: TAC013

Lims ID: 580-98033-D-2-A

Lab Sample ID: 580-98033-2

Client ID: AB-02B-16.5

Operator ID: adb

ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

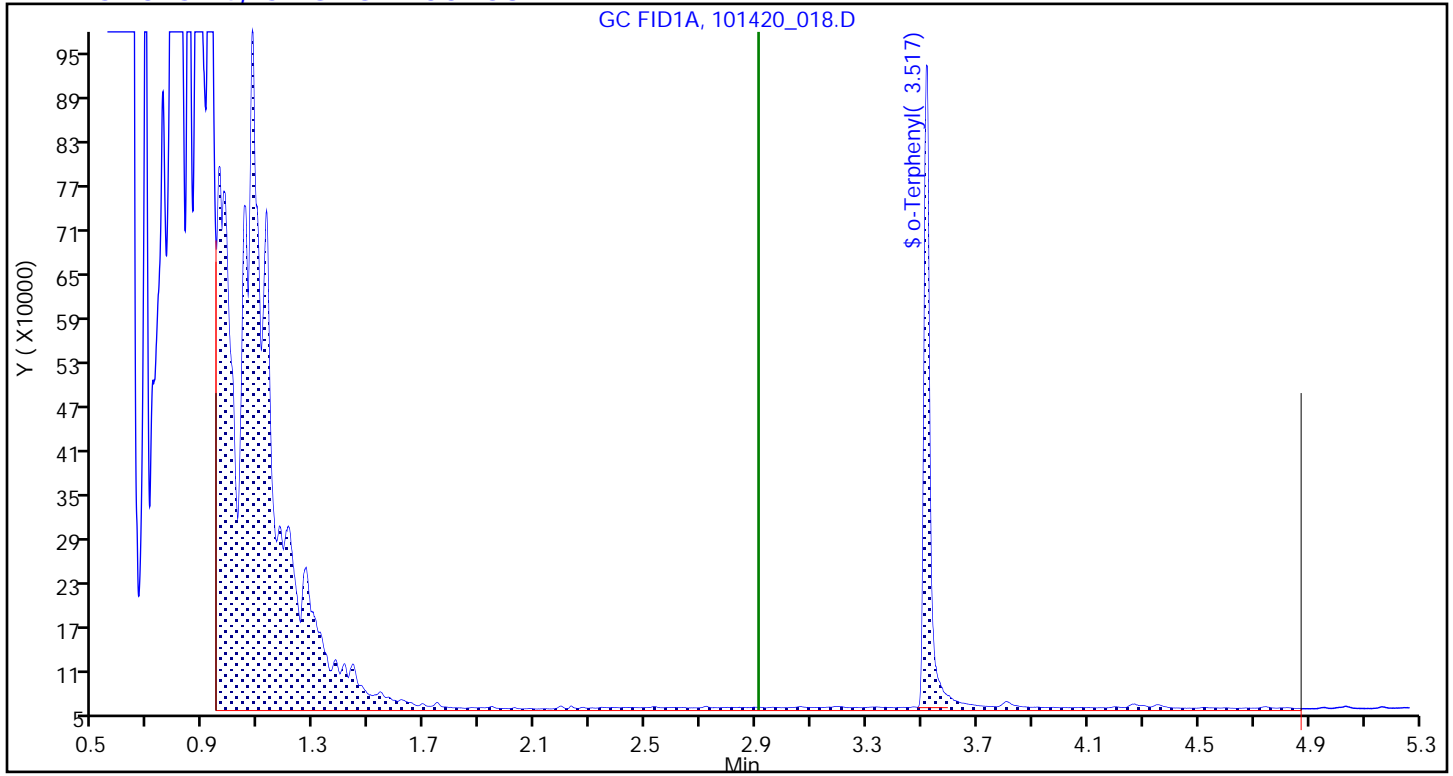
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Report Date: 15-Oct-2020 10:17:18

Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_018.D

Injection Date: 14-Oct-2020 18:06:42

Instrument ID: TAC013

Lims ID: 580-98033-D-2-A

Lab Sample ID: 580-98033-2

Client ID: AB-02B-16.5

Operator ID: adb

ALS Bottle#: 17

Worklist Smp#: 17

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

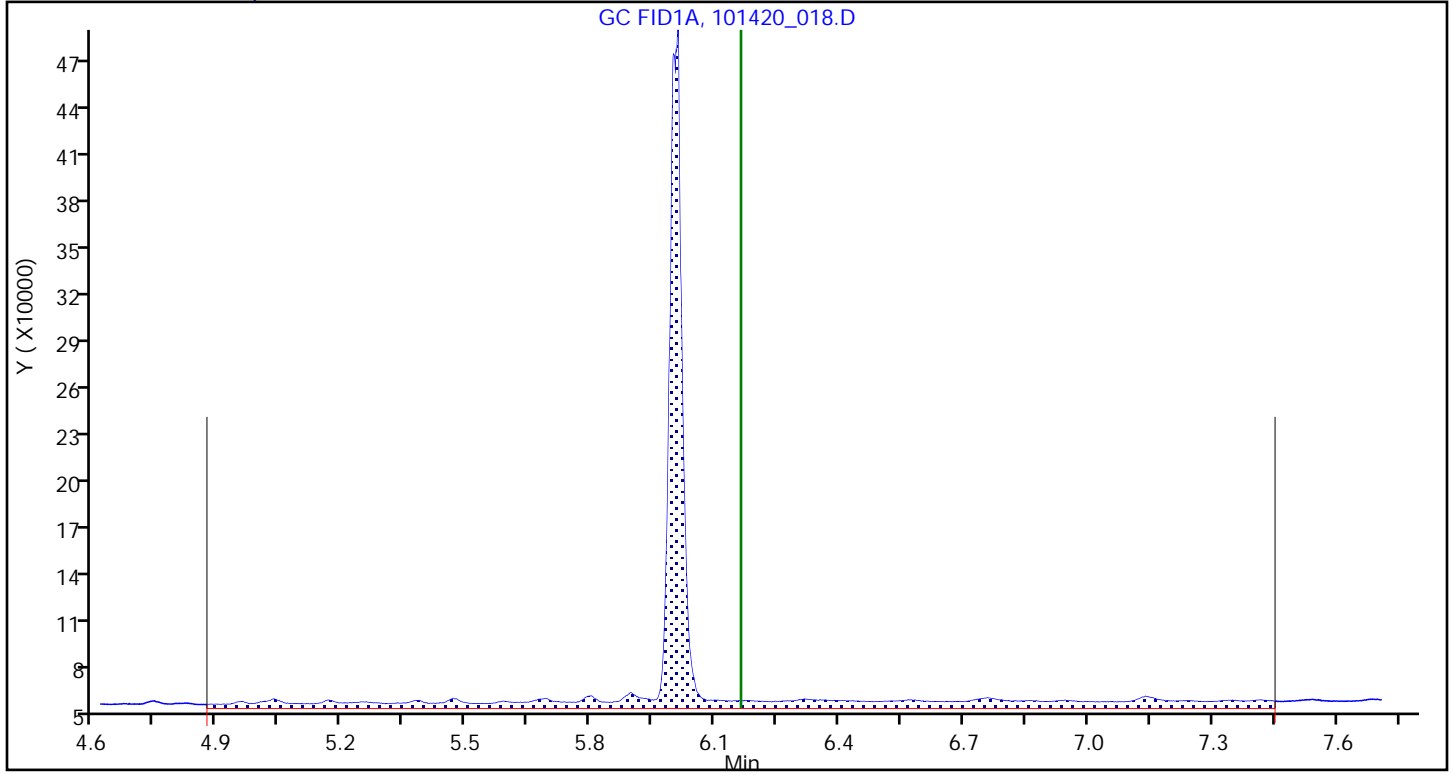
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-03B-16.5 Lab Sample ID: 580-98033-3  
 Matrix: Solid Lab File ID: 101420\_019.D  
 Analysis Method: NWTPH-Dx Date Collected: 10/05/2020 13:00  
 Extraction Method: 3546 Date Extracted: 10/13/2020 10:35  
 Sample wt/vol: 10.114(g) Date Analyzed: 10/14/2020 18:46  
 Con. Extract Vol.: 10(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)  
 % Moisture: 23.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 340757 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
STL00163	#2 Diesel (C10-C24)	230		64	
STL00299	Motor Oil (>C24-C36)	ND		64	

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_019.D  
 Lims ID: 580-98033-D-3-A  
 Client ID: AB-03B-16.5  
 Sample Type: Client  
 Inject. Date: 14-Oct-2020 18:46:25 ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 580-98033-D-3-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 15-Oct-2020 10:19:07 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 10:18:20

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 7 C10-C24	2.908	(0.942-4.873)		24390664	175.2	
\$ 10 o-Terphenyl	3.515	3.520	-0.005	1248986	8.26	
A 15 Motor Oil	6.163	(4.873-7.452)		639585	8.36	

QC Flag Legend

Processing Flags

Reagents:

MeCl2\_CT\_00185 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_019.D

Injection Date: 14-Oct-2020 18:46:25

Instrument ID: TAC013

Lims ID: 580-98033-D-3-A

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: adb

ALS Bottle#: 18

Worklist Smp#: 18

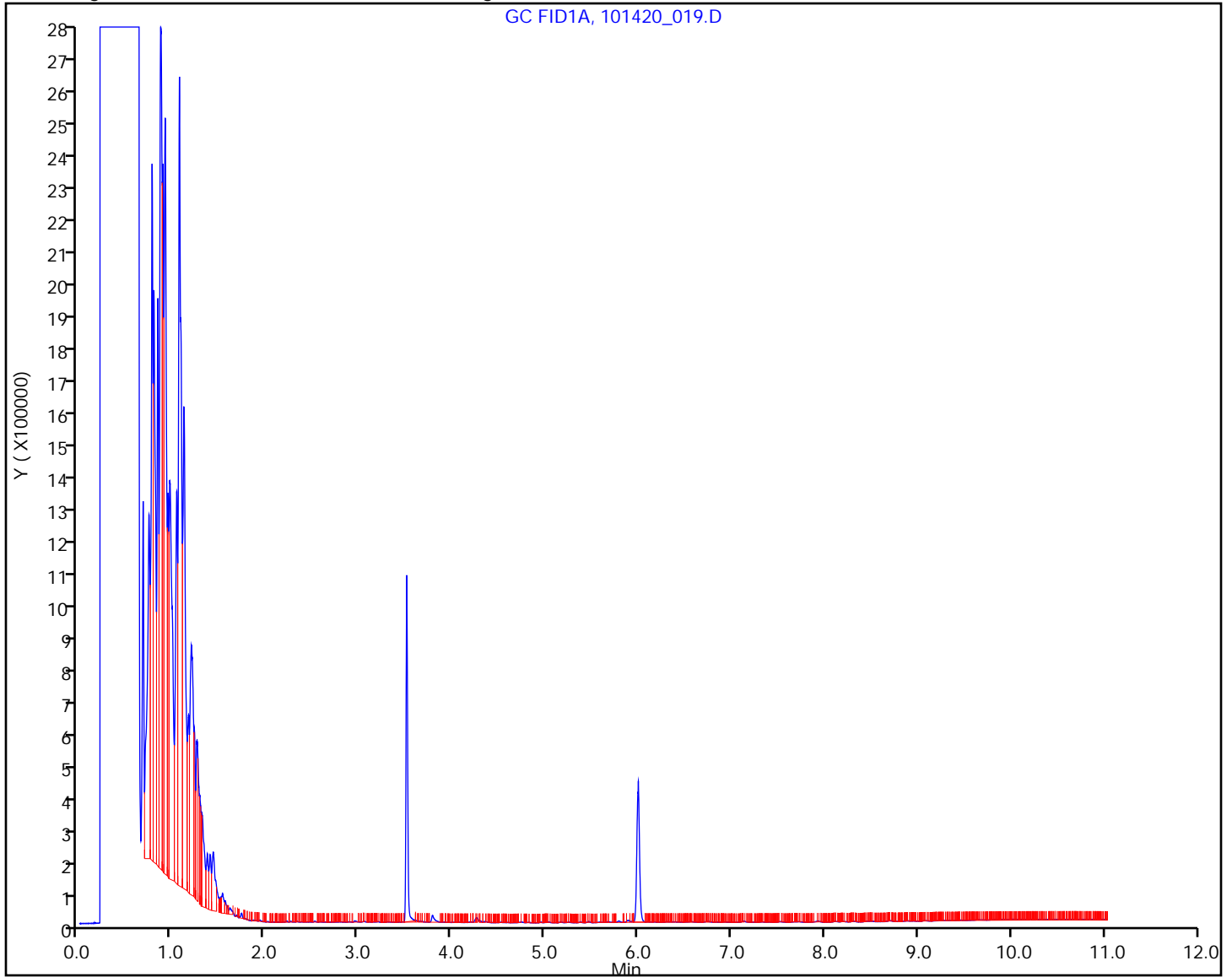
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1





Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_019.D  
 Lims ID: 580-98033-D-3-A  
 Client ID: AB-03B-16.5  
 Sample Type: Client  
 Inject. Date: 14-Oct-2020 18:46:25 ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 580-98033-D-3-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 15-Oct-2020 10:19:07 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 10:18:20

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 n-Decanoic Acid (Surr)	0.0	0	0.00
\$ 10 o-Terphenyl	10.3	8.26	80.45

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_019.D

Injection Date: 14-Oct-2020 18:46:25

Instrument ID: TAC013

Lims ID: 580-98033-D-3-A

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: adb

ALS Bottle#: 18 Worklist Smp#: 18

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

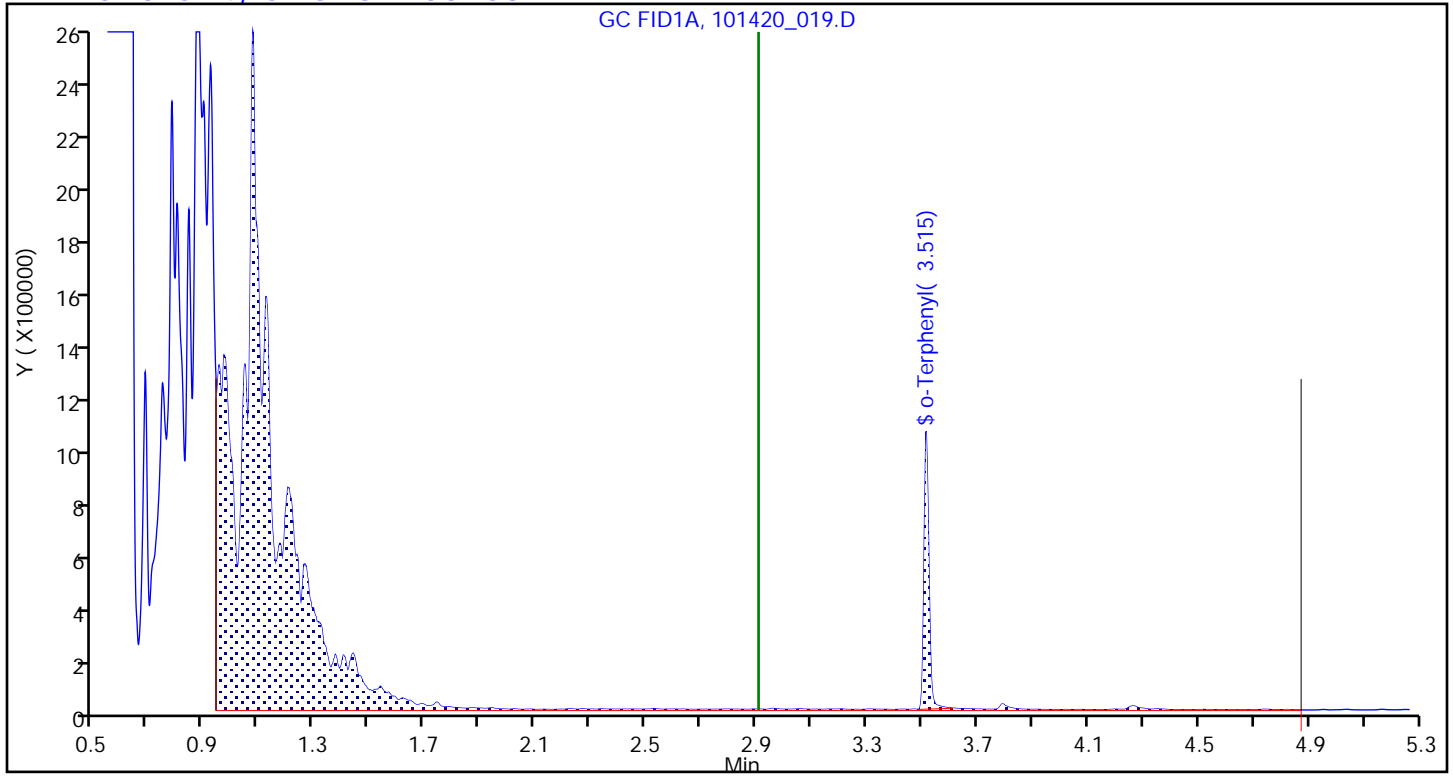
Method: TPH-TAC13Front

Limit Group: NWT PH-DX Standard list

Column:

Detector GC FID1A

A 7 C10-C24, CAS: STL00163



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_019.D

Injection Date: 14-Oct-2020 18:46:25

Instrument ID: TAC013

Lims ID: 580-98033-D-3-A

Lab Sample ID: 580-98033-3

Client ID: AB-03B-16.5

Operator ID: adb

ALS Bottle#: 18

Worklist Smp#: 18

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

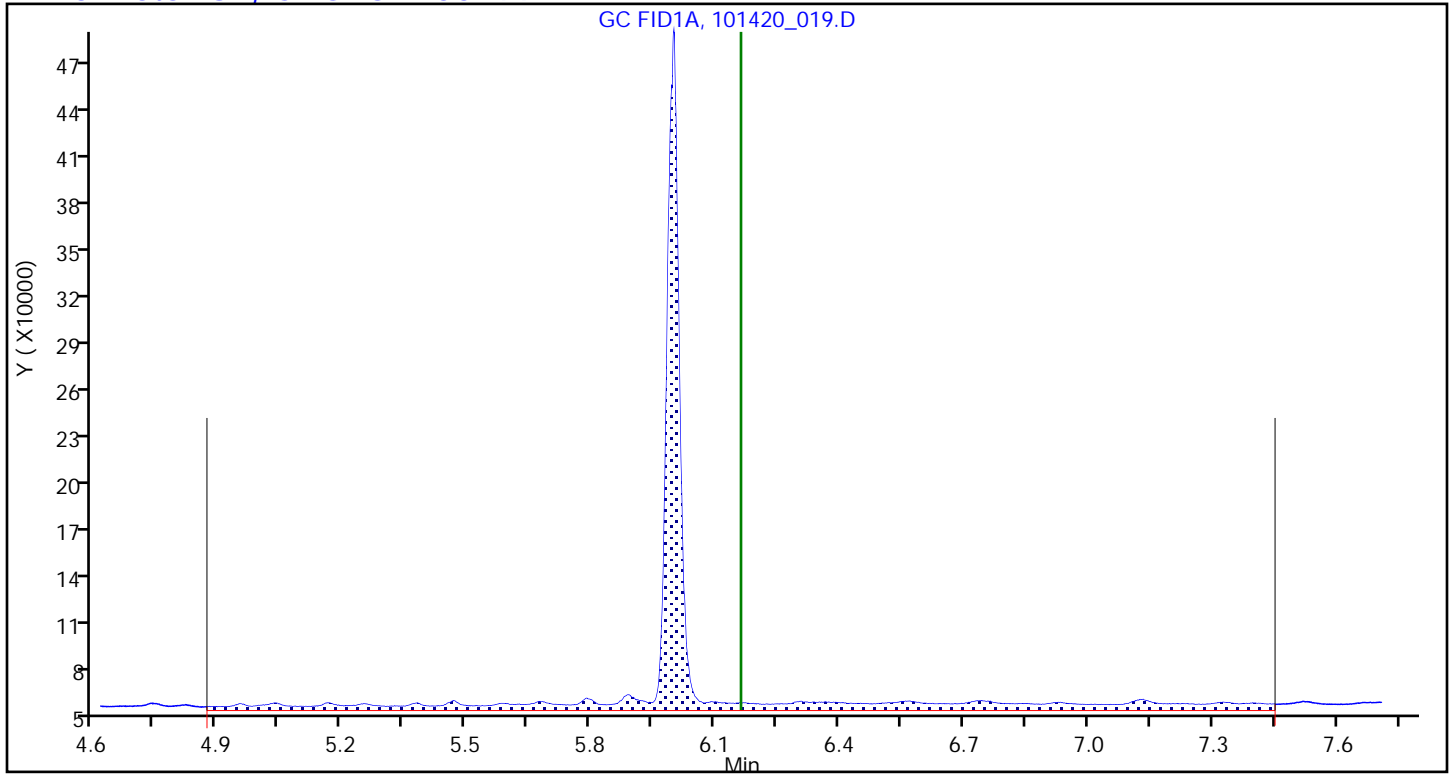
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AB-04B-16.5 Lab Sample ID: 580-98033-4  
 Matrix: Solid Lab File ID: 101420\_020.D  
 Analysis Method: NWTPH-Dx Date Collected: 10/05/2020 13:40  
 Extraction Method: 3546 Date Extracted: 10/13/2020 10:35  
 Sample wt/vol: 10.595(g) Date Analyzed: 10/14/2020 19:06  
 Con. Extract Vol.: 10(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)  
 % Moisture: 24.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 340757 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
STL00163	#2 Diesel (C10-C24)	ND		62	
STL00299	Motor Oil (>C24-C36)	ND		62	

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		50-150

Eurofins TestAmerica, Seattle  
 Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_020.D  
 Lims ID: 580-98033-D-4-A  
 Client ID: AB-04B-16.5  
 Sample Type: Client  
 Inject. Date: 14-Oct-2020 19:06:37 ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 580-98033-D-4-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 15-Oct-2020 11:54:45 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 11:57:00

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
A 7 C10-C24	2.908	(0.942-4.873)		865239	5.10	
\$ 10 o-Terphenyl	3.516	3.520	-0.004	1209999	8.00	
A 15 Motor Oil	6.163	(4.873-7.452)		1242148	17.6	

QC Flag Legend

Processing Flags

Reagents:

MeCl2\_CT\_00185 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_020.D

Injection Date: 14-Oct-2020 19:06:37

Instrument ID: TAC013

Lims ID: 580-98033-D-4-A

Lab Sample ID: 580-98033-4

Client ID: AB-04B-16.5

Operator ID: adb

ALS Bottle#: 19

Worklist Smp#: 19

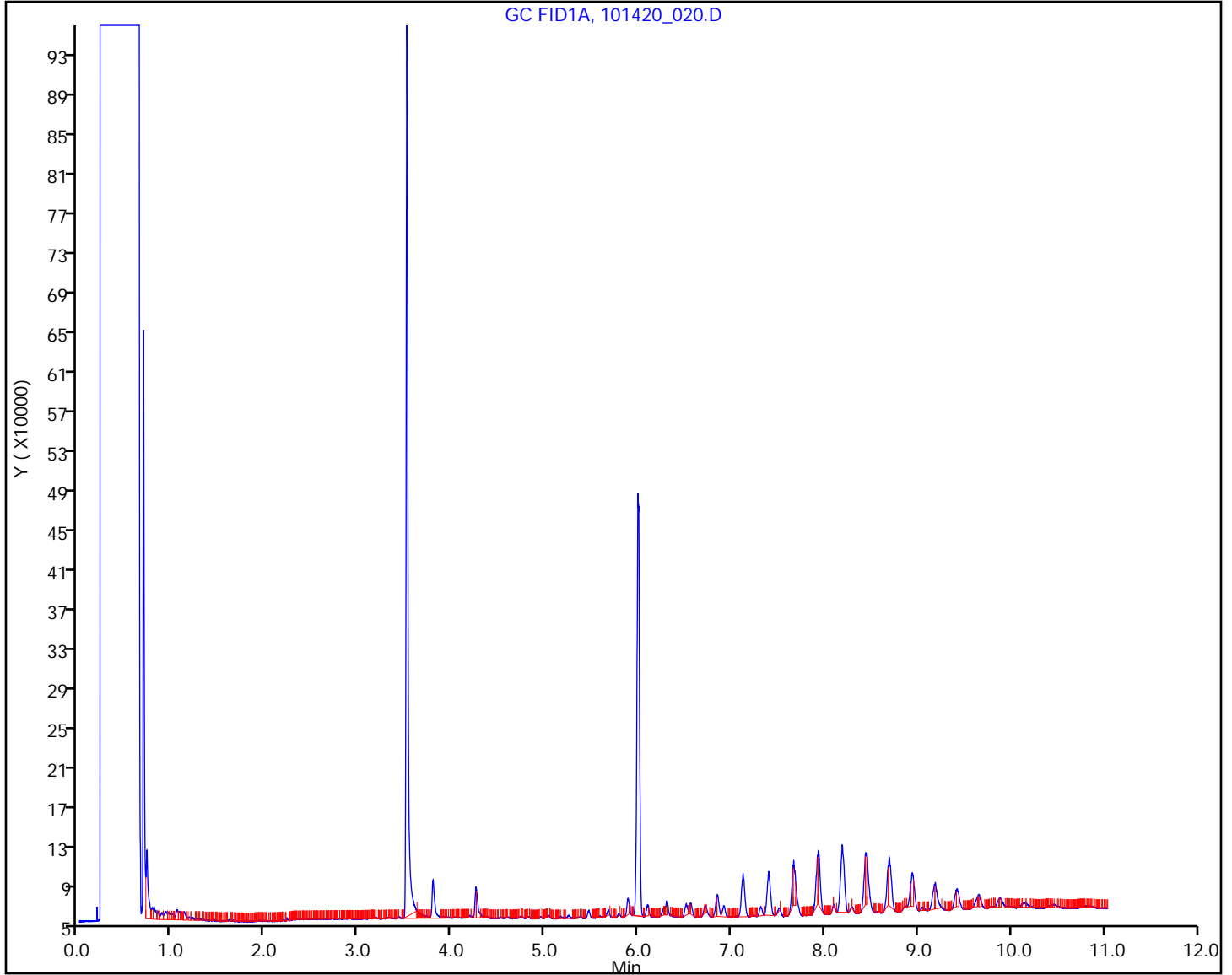
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_020.D  
 Lims ID: 580-98033-D-4-A  
 Client ID: AB-04B-16.5  
 Sample Type: Client  
 Inject. Date: 14-Oct-2020 19:06:37 ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 580-98033-D-4-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 15-Oct-2020 11:54:45 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 11:57:00

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 n-Decanoic Acid (Surr)	0.0	0	0.00
\$ 10 o-Terphenyl	10.3	8.00	77.93

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_020.D

Injection Date: 14-Oct-2020 19:06:37

Instrument ID: TAC013

Lims ID: 580-98033-D-4-A

Lab Sample ID: 580-98033-4

Client ID: AB-04B-16.5

Operator ID: adb

ALS Bottle#: 19

Worklist Smp#: 19

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

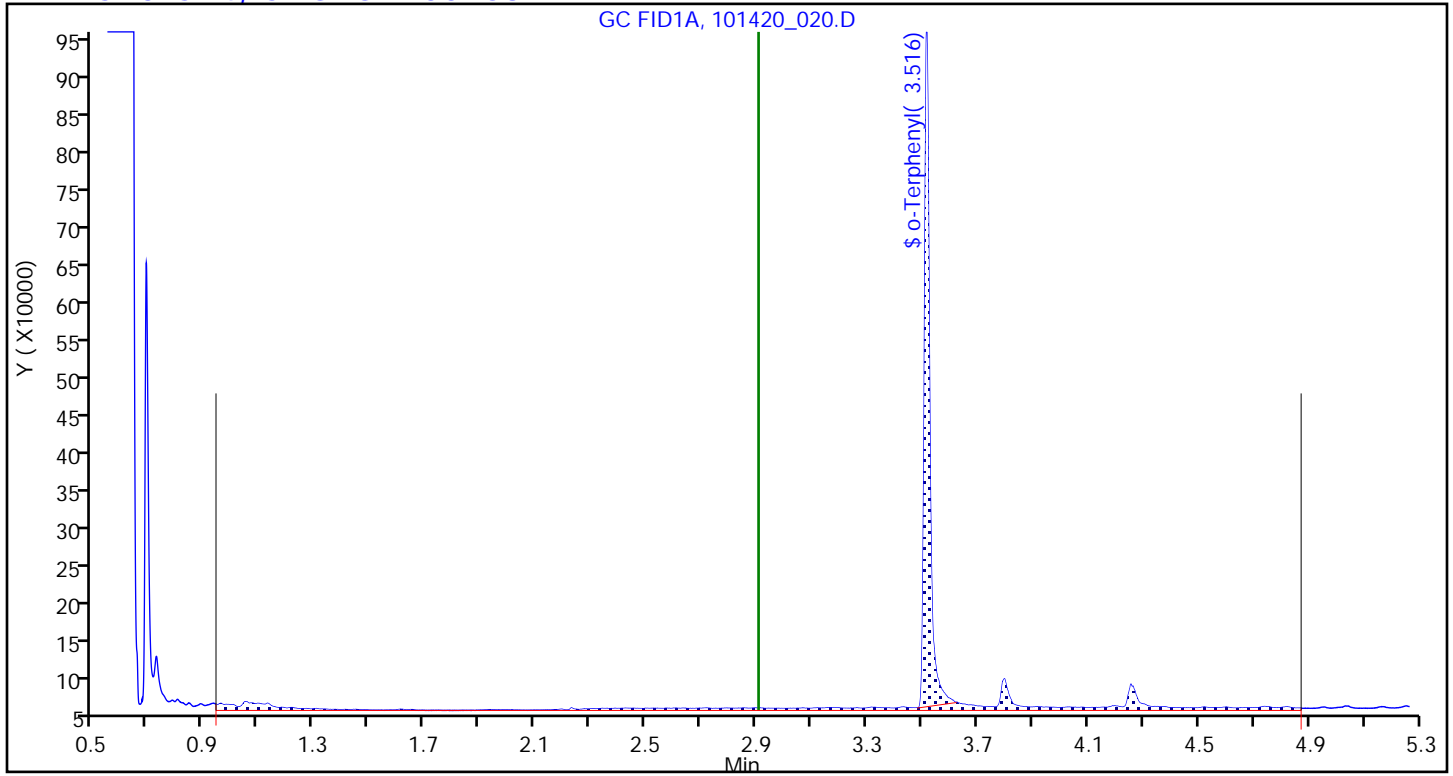
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_020.D

Injection Date: 14-Oct-2020 19:06:37

Instrument ID: TAC013

Lims ID: 580-98033-D-4-A

Lab Sample ID: 580-98033-4

Client ID: AB-04B-16.5

Operator ID: adb

ALS Bottle#: 19 Worklist Smp#: 19

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

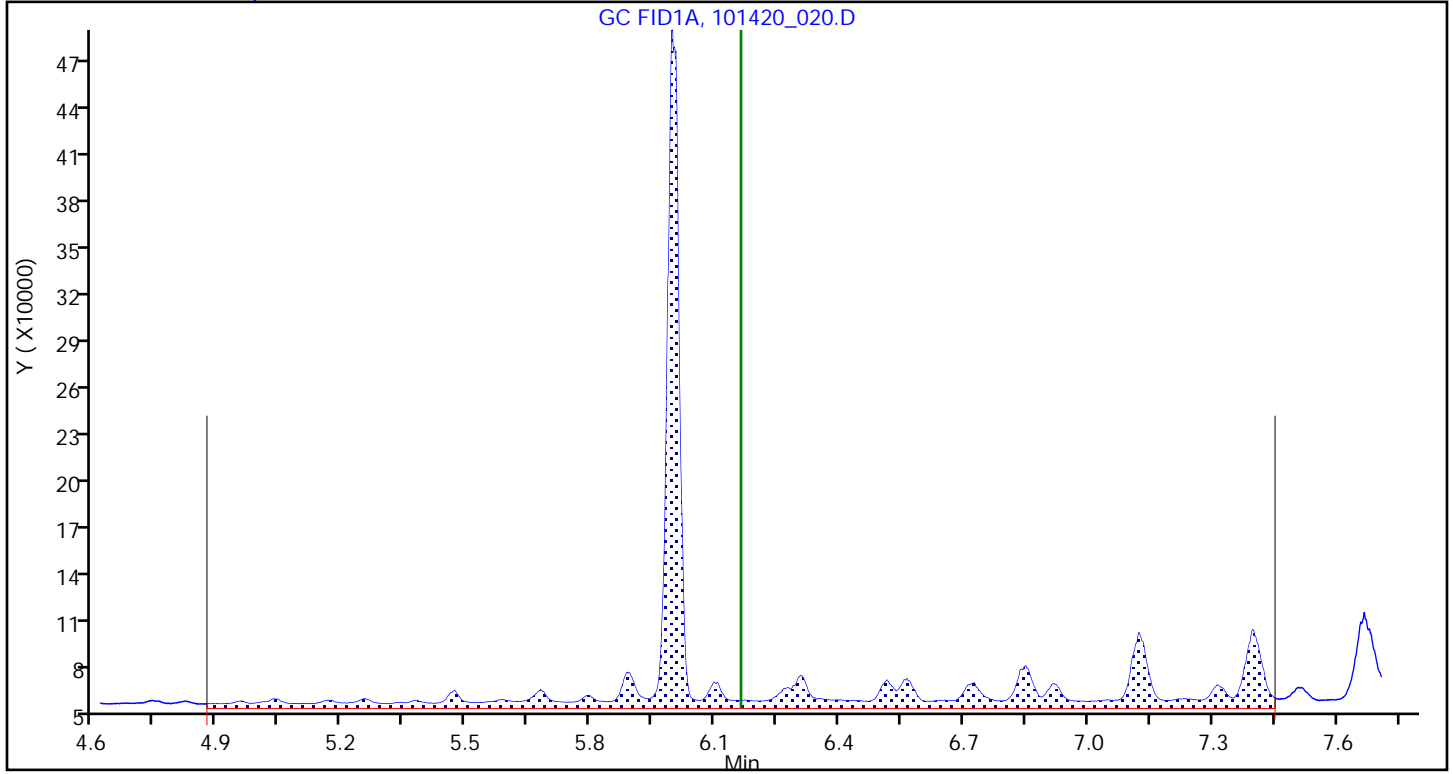
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_002.D

Injection Date: 09-Jul-2020 10:09:40

Instrument ID: TAC013

Lims ID: RTC

Client ID:

Operator ID: jcm

ALS Bottle#: 2

Worklist Smp#: 2

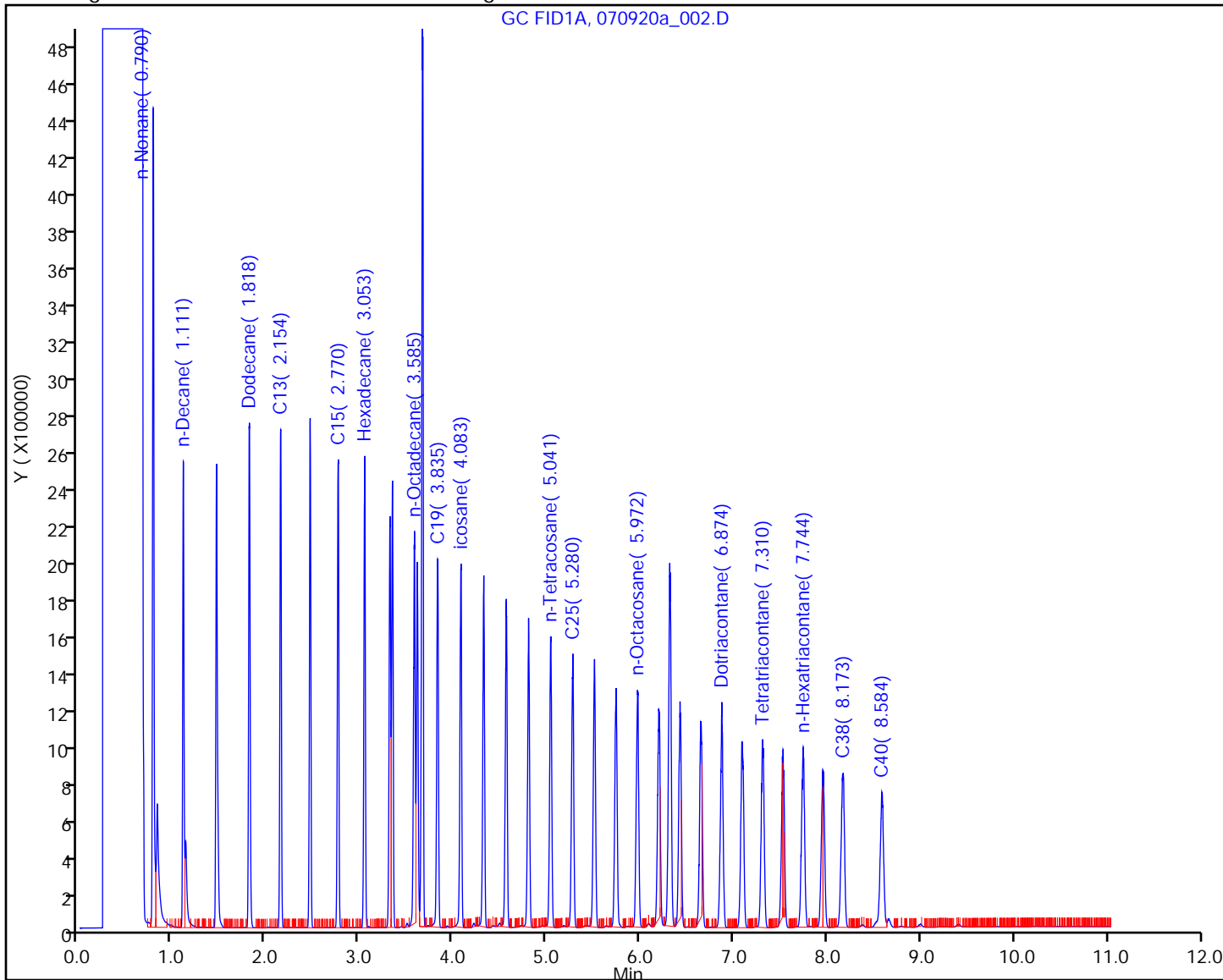
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 332639

SDG No.: \_\_\_\_\_

Instrument ID: TAC013 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2020 10:29 Calibration End Date: 07/09/2020 13:29 Calibration ID: 29422

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-332639/12	070920a_012.D
Level 2	IC 580-332639/11	070920a_011.D
Level 3	IC 580-332639/10	070920a_010.D
Level 4	IC 580-332639/9	070920a_009.D
Level 5	IC 580-332639/8	070920a_008.D
Level 6	ICRT 580-332639/7	070920a_007.D
Level 7	IC 580-332639/6	070920a_006.D
Level 8	IC 580-332639/5	070920a_005.D
Level 9	IC 580-332639/4	070920a_004.D
Level 10	IC 580-332639/3	070920a_003.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
#2 Diesel (C10-C24)	3.062	3.062	3.062	3.062	3.062	3.062	3.062	3.062	3.062	3.062	1.053 - 5.071	3.062
#2 Diesel (>C12-C24)	3.413	3.413	3.413	3.413	3.413	3.413	3.413	3.413	3.413	3.413	1.754 - 5.071	3.413
Motor Oil (>C24-C36)	6.418	6.418	6.418	6.418	6.418	6.418	6.418	6.418	6.418	6.418	5.071 - 7.834	6.418
Motor Oil Range Organics (C24-C40)	6.938	6.938	6.938	6.938	6.938	6.938	6.938	6.938	6.938	6.938	5.141 - 8.734	6.938
o-Terphenyl	3.656	3.658	3.655	3.658	3.657	3.660	3.663	3.673	3.688	+++++	3.641 - 3.701	3.663

FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 332639

SDG No.: \_\_\_\_\_

Instrument ID: TAC013 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2020 10:29 Calibration End Date: 07/09/2020 13:29 Calibration ID: 29422

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-332639/12	070920a_012.D
Level 2	IC 580-332639/11	070920a_011.D
Level 3	IC 580-332639/10	070920a_010.D
Level 4	IC 580-332639/9	070920a_009.D
Level 5	IC 580-332639/8	070920a_008.D
Level 6	ICRT 580-332639/7	070920a_007.D
Level 7	IC 580-332639/6	070920a_006.D
Level 8	IC 580-332639/5	070920a_005.D
Level 9	IC 580-332639/4	070920a_004.D
Level 10	IC 580-332639/3	070920a_003.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
	LVL 5	LVL 6	LVL 7	LVL 8												
#2 Diesel (C10-C24)	151432	149088	146705	141546	Lin2	159521.161	138329.360			4.1			0.9980			0.9900
	142664	142513	140805	140449												
	128549	129660														
#2 Diesel (>C12-C24)	129033	126301	124749	120419	Lin2	134038.536	117765.191			4.0			0.9980			0.9900
	121504	121403	119939	119769												
	109449	110390														
Motor Oil (>C24-C36)	71811	73782	71227	67484	Lin2	92431.7876	65461.9304			5.9			0.9960			0.9900
	68103	68652	65529	65721												
	58235	61525														
Motor Oil Range Organics (C24-C40)	96467	96425	91227	85546	Lin2	153473.425	84203.6348			4.1			0.9980			0.9900
	85883	85827	82571	83477												
	77792	85797														
o-Terphenyl	158674	155305	164317	152583	Ave		151175.766			15.00	6.6		15.0			
	151556	156923	150007	138920												
	132297	+++++														

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

FORM VI  
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1 Analy Batch No.: 332639

SDG No.: \_\_\_\_\_

Instrument ID: TAC013 GC Column: ZB-1HT ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2020 10:29 Calibration End Date: 07/09/2020 13:29 Calibration ID: 29422

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-332639/12	070920a_012.D
Level 2	IC 580-332639/11	070920a_011.D
Level 3	IC 580-332639/10	070920a_010.D
Level 4	IC 580-332639/9	070920a_009.D
Level 5	IC 580-332639/8	070920a_008.D
Level 6	ICRT 580-332639/7	070920a_007.D
Level 7	IC 580-332639/6	070920a_006.D
Level 8	IC 580-332639/5	070920a_005.D
Level 9	IC 580-332639/4	070920a_004.D
Level 10	IC 580-332639/3	070920a_003.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
#2 Diesel (C10-C24)	Lin2	1514320	2981754	7335239	14154598	28532767	10.0	20.0	50.0	100	200
		71256647	140805308	280897364	642745694	1296604739	500	1000	2000	5000	10000
#2 Diesel (>C12-C24)	Lin2	1290331	2526025	6237465	12041913	24300854	10.0	20.0	50.0	100	200
		60701558	119939399	239538784	547246269	1103901721	500	1000	2000	5000	10000
Motor Oil (>C24-C36)	Lin2	718113	1475642	3561347	6748441	13620602	10.0	20.0	50.0	100	200
		34325986	65529316	131442647	291174940	615250657	500	1000	2000	5000	10000
Motor Oil Range Organics (C24-C40)	Lin2	964668	1928499	4561371	8554593	17176545	10.0	20.0	50.0	100	200
		42913681	82570796	166954404	388958721	857972012	500	1000	2000	5000	10000
o-Terphenyl	Ave	32798	64203	169822	315389	626532	0.207	0.413	1.03	2.07	4.13
		1621796	3100646	5742946	13672884	+++++	10.3	20.7	41.3	103	+++++

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_003.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 09-Jul-2020 10:29:48 ALS Bottle#: 91 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 10k  
 Operator ID: jcm Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 10-Jul-2020 06:34:08 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1016

First Level Reviewer: mohammedjc Date: 09-Jul-2020 15:14:11

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	3.062	(1.053-5.071)		1296604739	10000	9372.2	
A 55 C9-C25	3.069	(0.830-5.307)		1367949680	NC	NC	
A 35 C10-C25	3.126	(1.053-5.199)		1310124112	NC	NC	
A 9 C12-C24	3.413	(1.754-5.071)		1103901721	10000	9372.6	
A 25 C10-C28	3.528	(1.053-6.002)		1421158044	NC	NC	
\$ 10 o-Terphenyl	3.704	3.671	0.033	23631093	206.7	156.3	a
A 14 C24-C32	6.020	(5.071-6.968)		366334263	NC	NC	
\$ 33 n-Triacontane-d62	6.307	6.316	-0.009	17574265	NC	NC	M
A 15 Motor Oil	6.418	(5.071-7.834)		615250657	10000	9397.2	
A 26 C24-C36	6.418	(5.071-7.834)		615250657	NC	NC	
A 32 C25-C36	6.482	(5.199-7.834)		601731284	NC	NC	
A 52 C24-C40	6.938	(5.141-8.734)		857972012	10000	10187	
A 30 C28-C40	7.316	(6.002-8.670)		720033719	NC	NC	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

MeCl2\_CT\_00183 Amount Added: 1.00 Units: mL Run Reagent  
 TPH-IC\*\_10000\_00008 Amount Added: 1.00 Units: mL

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_003.D

Injection Date: 09-Jul-2020 10:29:48

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 91

Worklist Smp#: 3

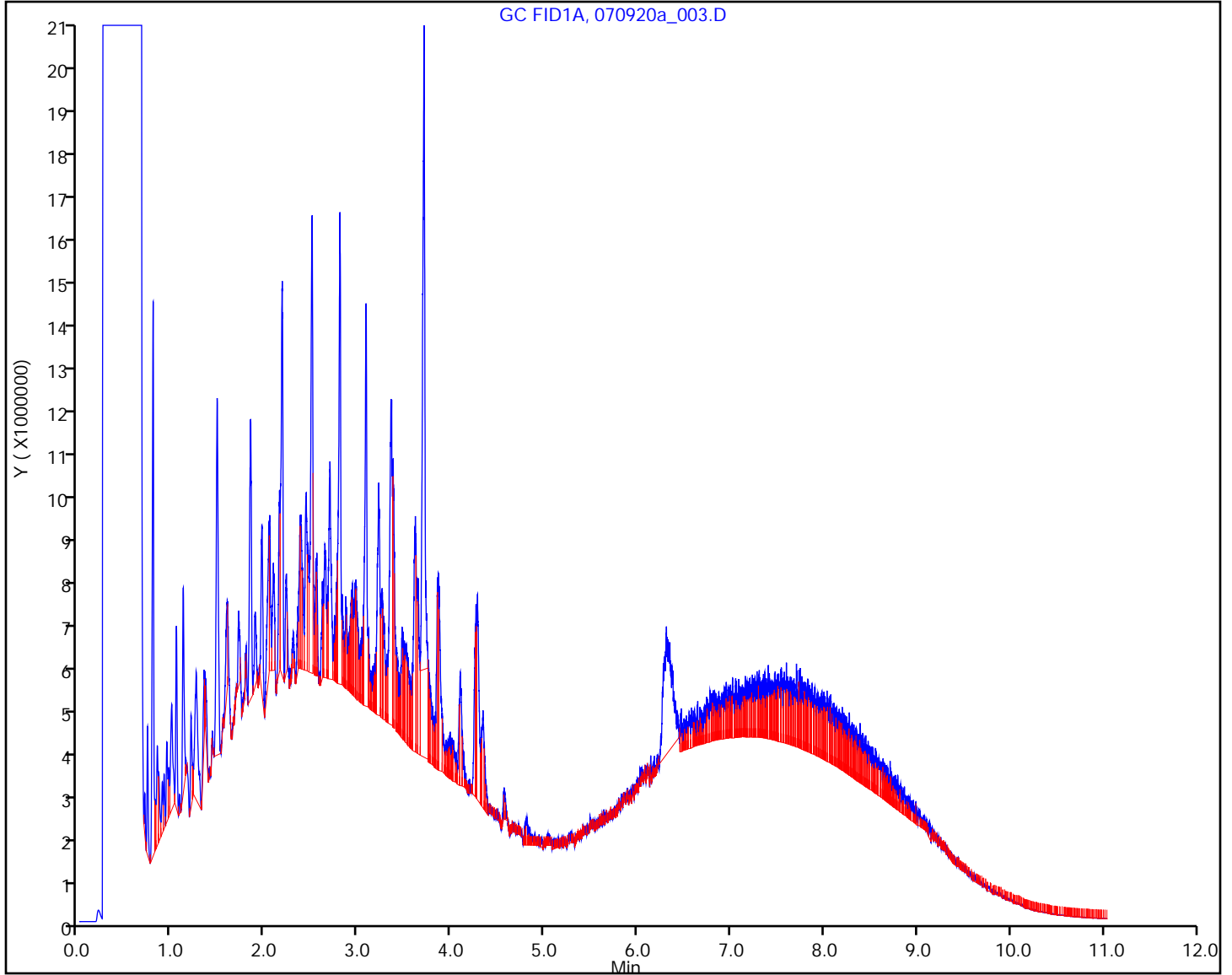
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_003.D

Injection Date: 09-Jul-2020 10:29:48

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 91

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

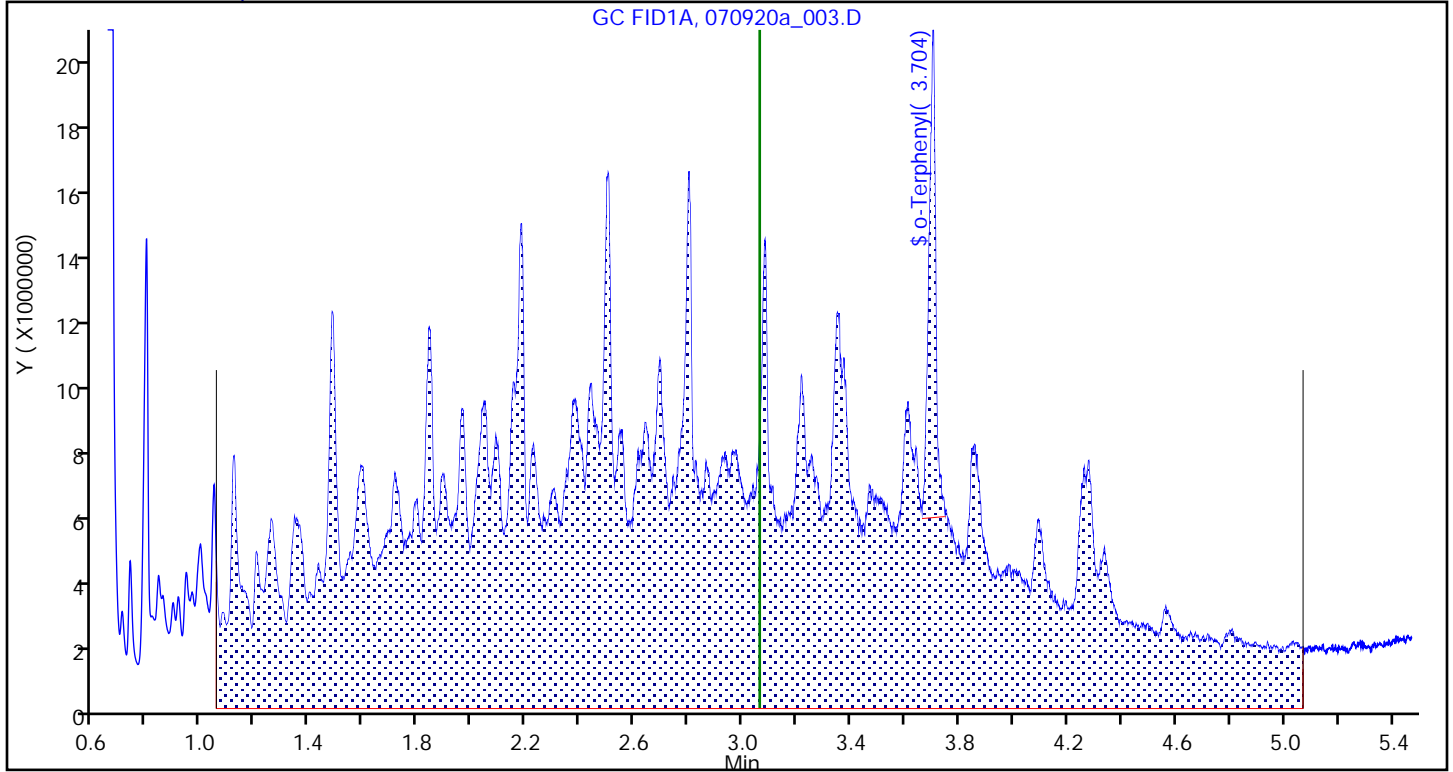
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_003.D

Injection Date: 09-Jul-2020 10:29:48

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 91

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

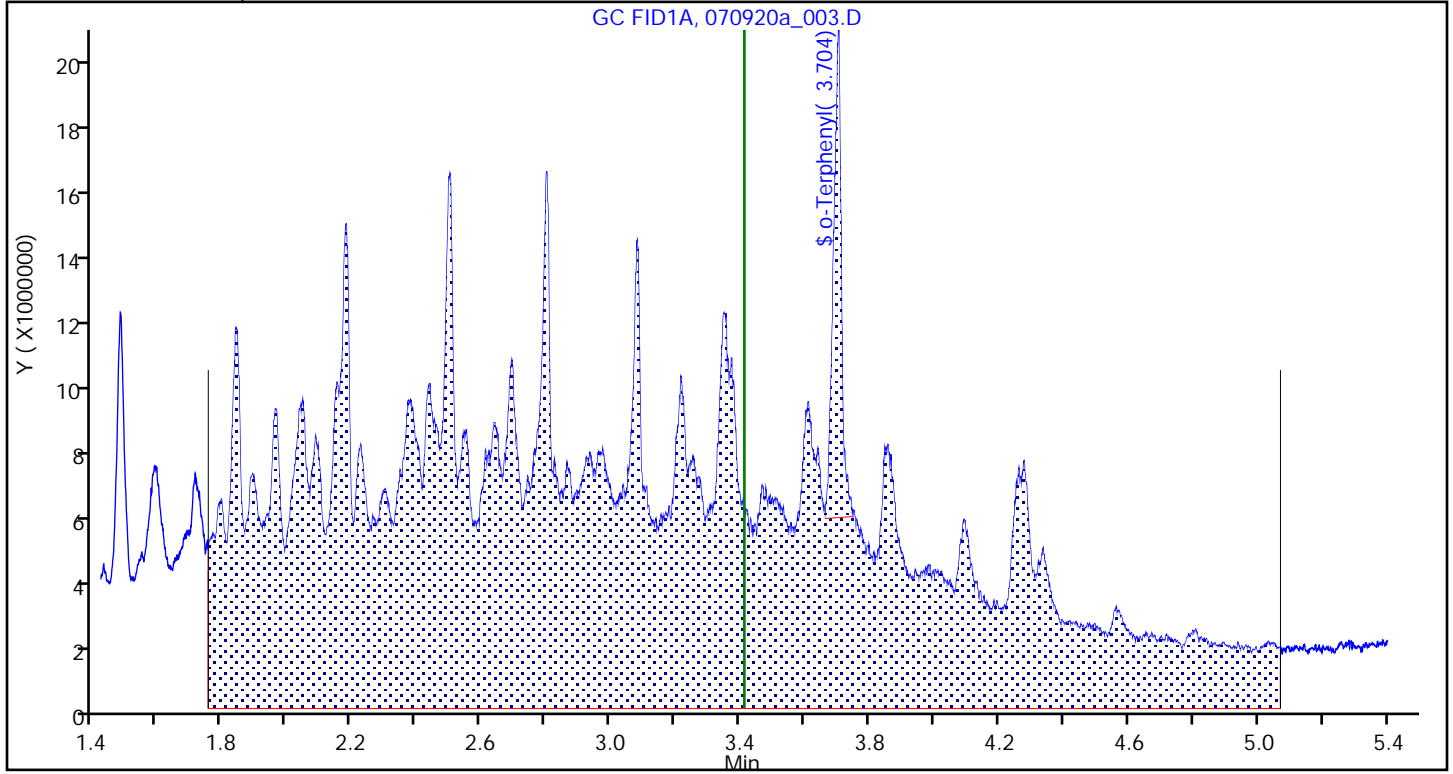
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 9 C12-C24, CAS: STL00096**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_003.D

Injection Date: 09-Jul-2020 10:29:48

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 91

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

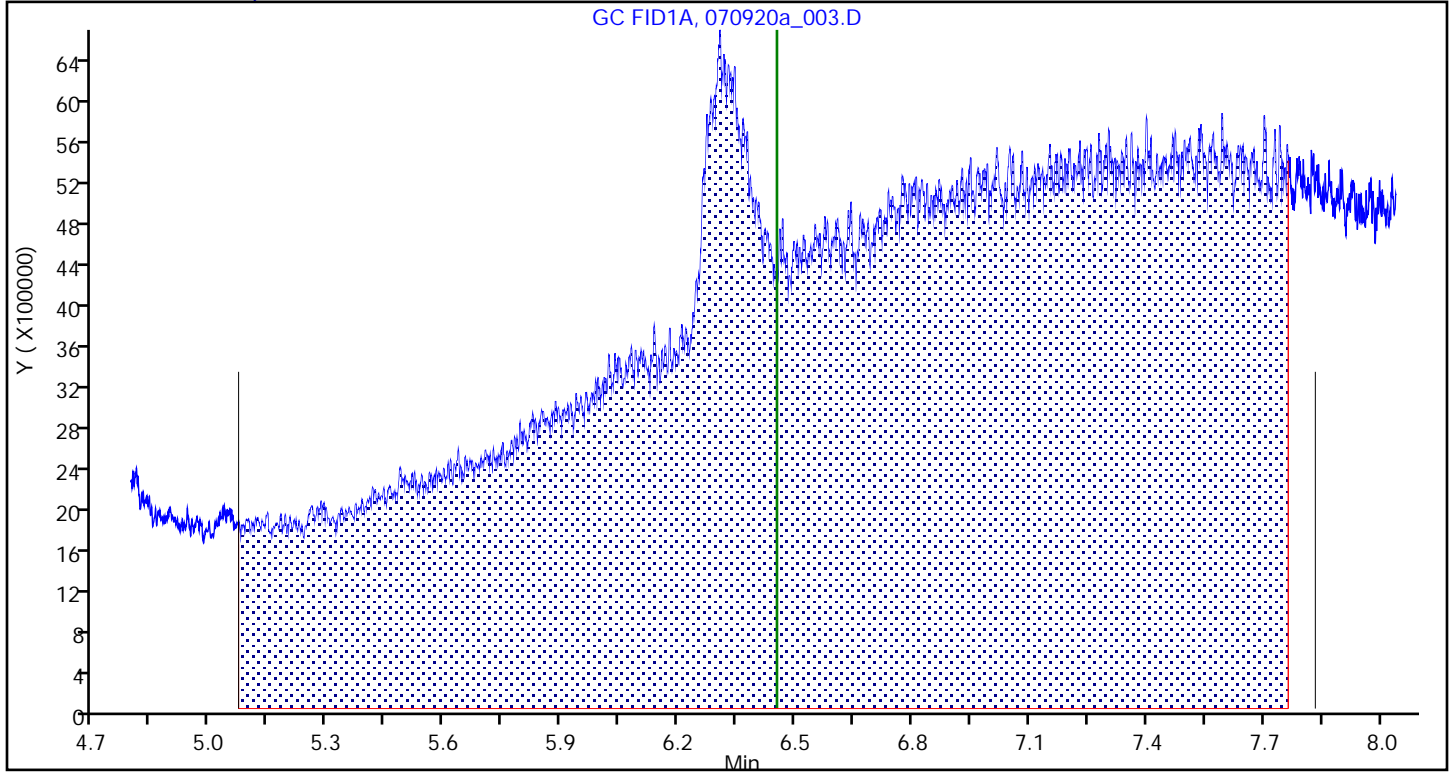
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_003.D

Injection Date: 09-Jul-2020 10:29:48

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 91

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

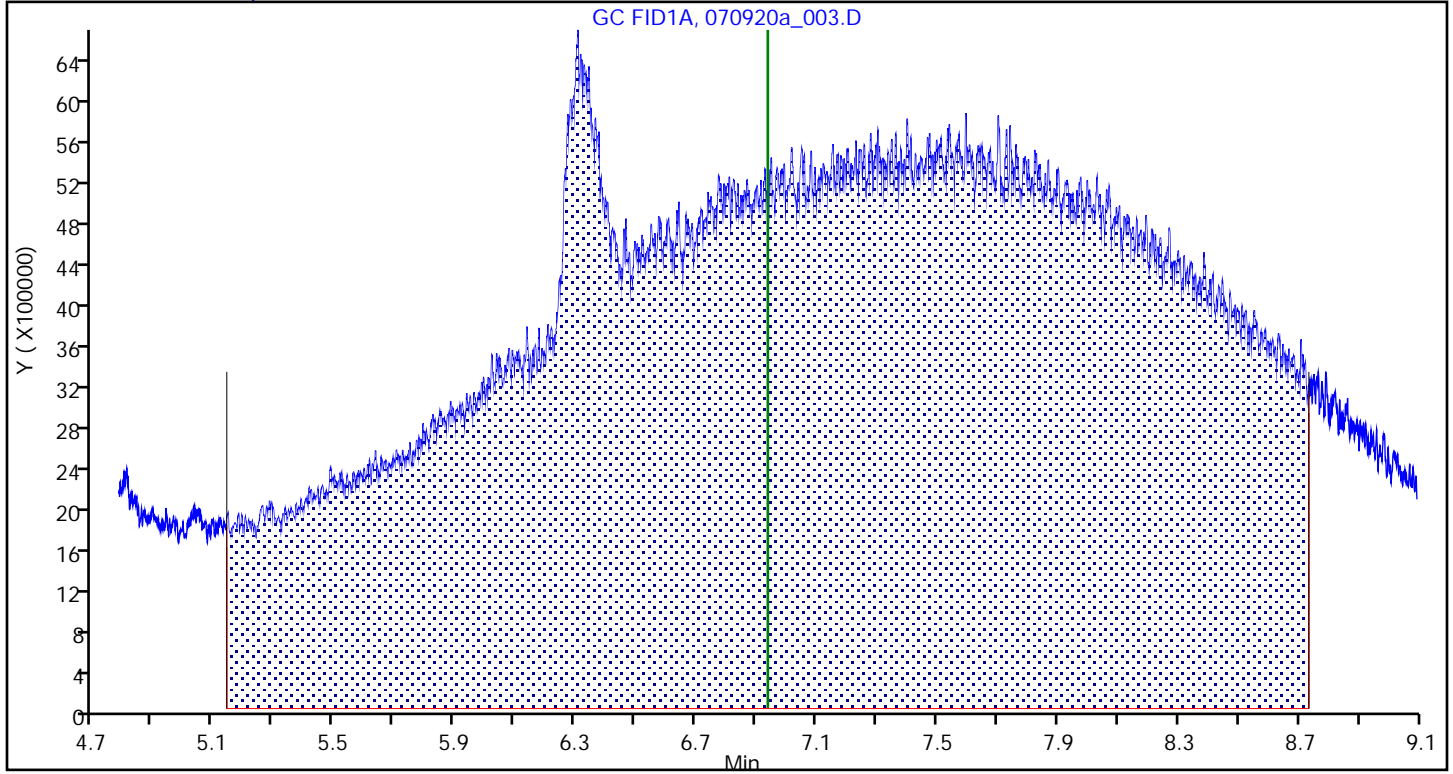
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**



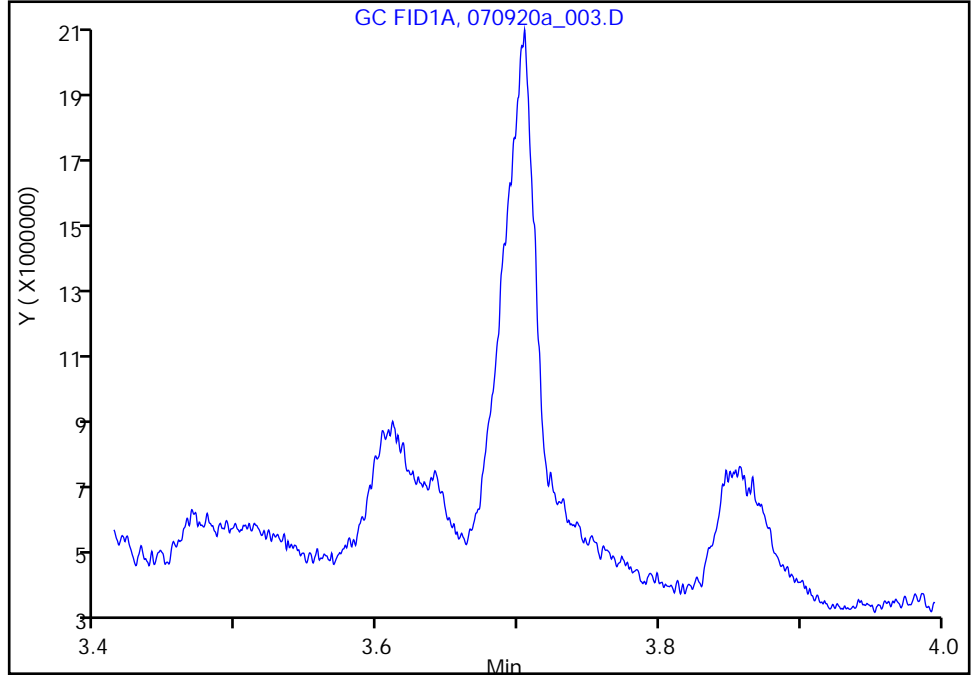
Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_003.D  
Injection Date: 09-Jul-2020 10:29:48 Instrument ID: TAC013  
Lims ID: IC  
Client ID:  
Operator ID: jcm ALS Bottle#: 91 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: TPH-TAC13Front Limit Group: NWTPH-DX Standard list  
Column: Detector GC FID1A

**\$ 10 o-Terphenyl, CAS: 84-15-1**  
Signal: 1

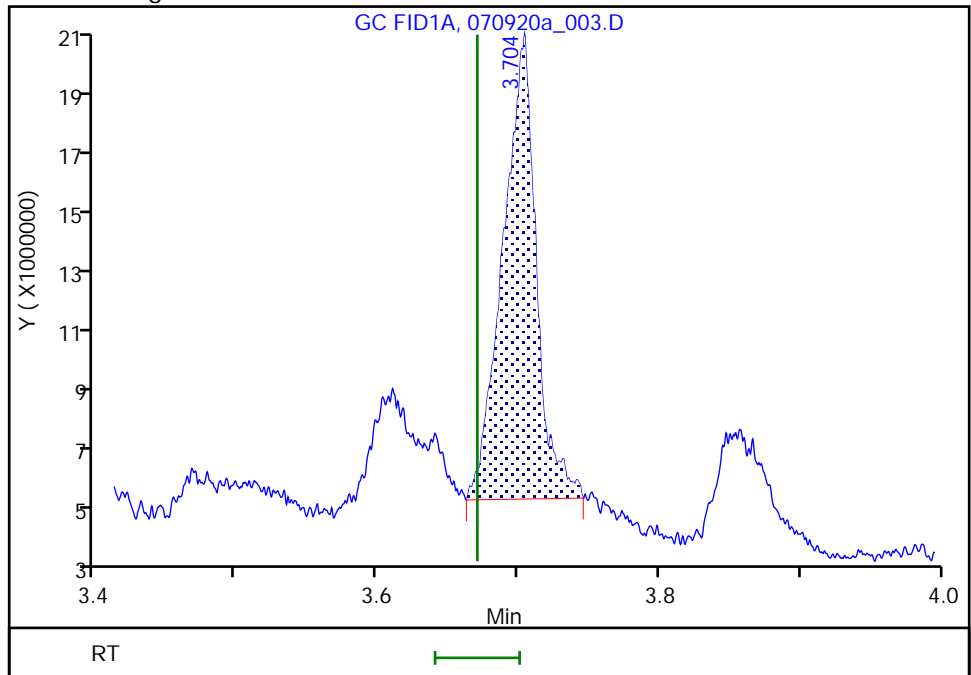
Not Detected  
Expected RT: 3.67

Processing Integration Results



RT: 3.70  
Area: 23631093  
Amount: 156.3154  
Amount Units: ng/uL

Manual Integration Results



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_004.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 09-Jul-2020 10:49:56 ALS Bottle#: 92 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 5k  
 Operator ID: jcm Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 10-Jul-2020 06:34:13 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1016

First Level Reviewer: mohammedjc Date: 09-Jul-2020 15:14:22

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	3.062	(1.053-5.071)		642745694	5000.0	4645.3	
A 55 C9-C25	3.069	(0.830-5.307)		678668002	NC	NC	
A 35 C10-C25	3.126	(1.053-5.199)		649686341	NC	NC	
A 9 C12-C24	3.413	(1.754-5.071)		547246269	5000.0	4645.8	
A 25 C10-C28	3.528	(1.053-6.002)		707907991	NC	NC	
\$ 10 o-Terphenyl	3.688	3.671	0.017	13672884	103.4	90.4	
A 14 C24-C32	6.020	(5.071-6.968)		185308033	NC	NC	
\$ 33 n-Triacontane-d62	6.287	6.316	-0.029	9443245	NC	NC	M
A 26 C24-C36	6.418	(5.071-7.834)		291174940	NC	NC	
A 15 Motor Oil	6.418	(5.071-7.834)		291174940	5000.0	4446.6	
A 32 C25-C36	6.482	(5.199-7.834)		284234293	NC	NC	
A 52 C24-C40	6.938	(5.141-8.734)		388958721	5000.0	4617.4	
A 30 C28-C40	7.316	(6.002-8.670)		318449808	NC	NC	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

**Reagents:**

TPH-IC\*\_10000\_00008

Amount Added: 0.50

Units: mL

MeCl2\_CT\_00183

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_004.D

Injection Date: 09-Jul-2020 10:49:56

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 92

Worklist Smp#: 4

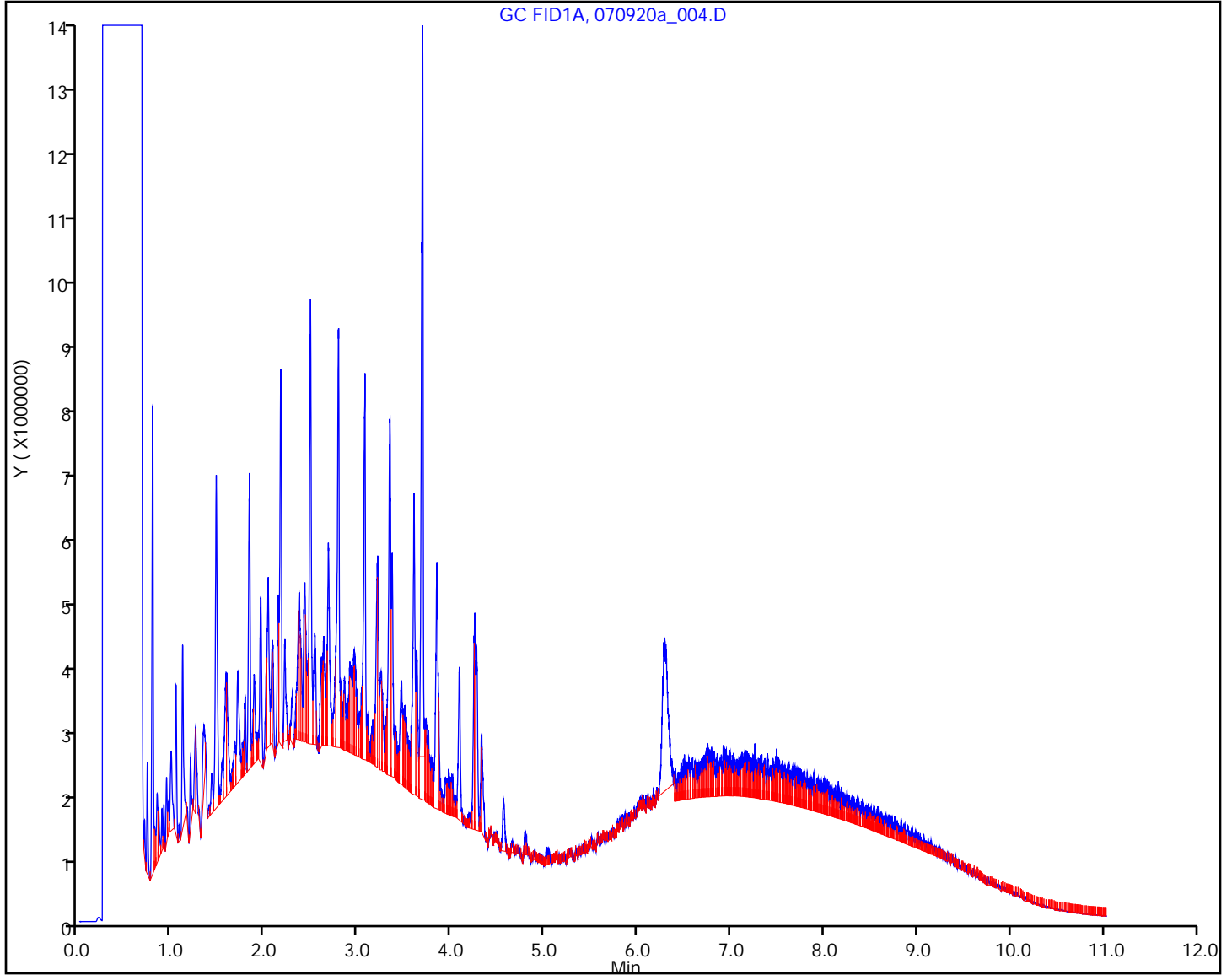
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_004.D

Injection Date: 09-Jul-2020 10:49:56

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 92

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

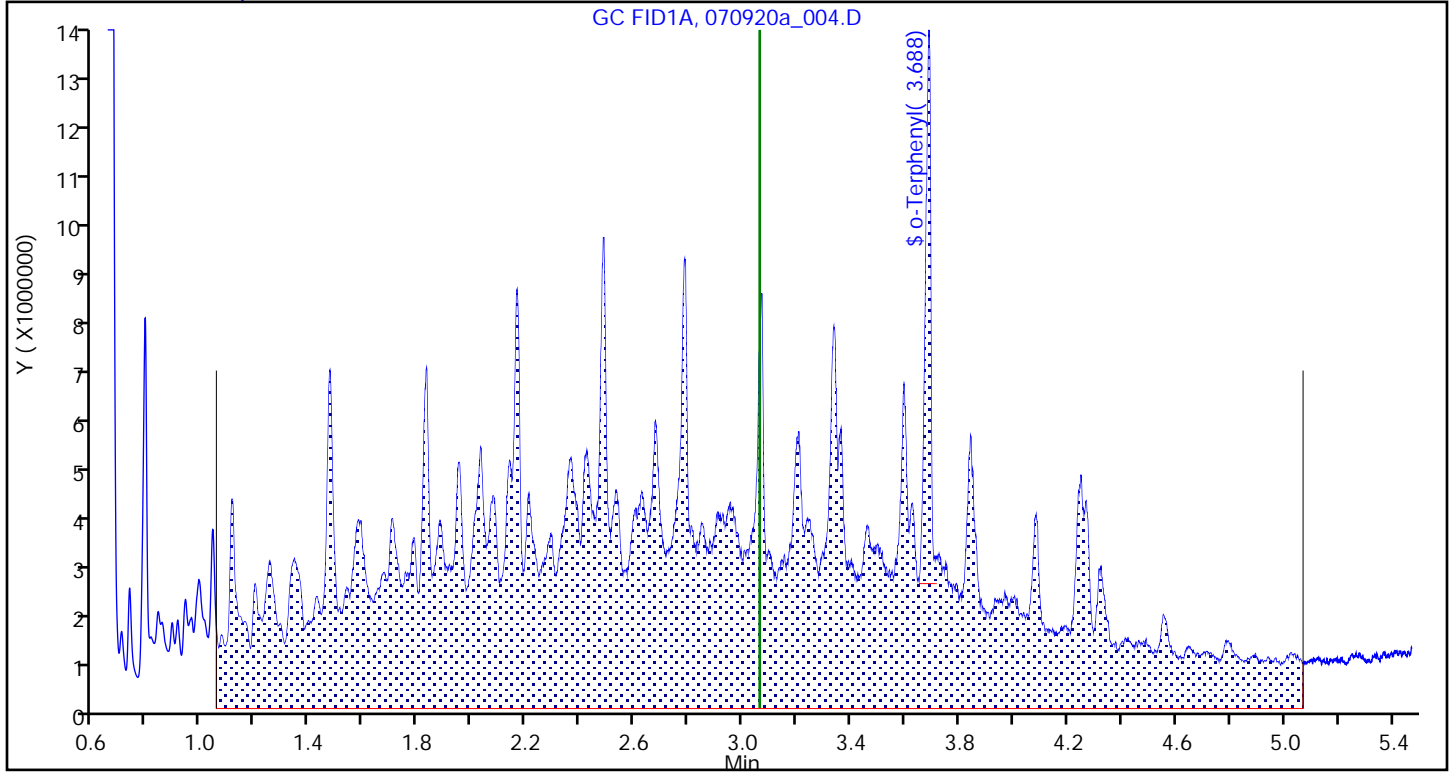
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_004.D

Injection Date: 09-Jul-2020 10:49:56

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 92

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

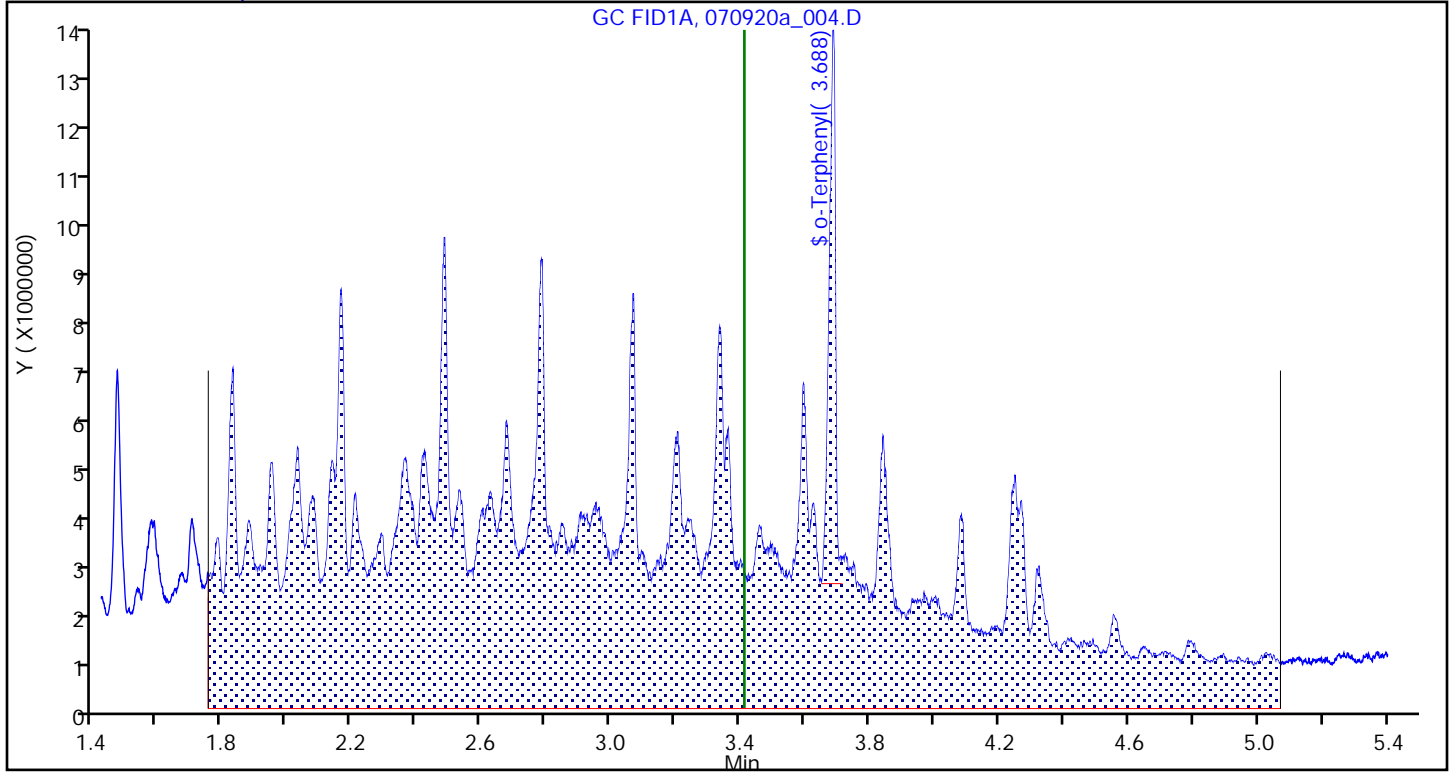
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 9 C12-C24, CAS: STL00096**





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_004.D

Injection Date: 09-Jul-2020 10:49:56

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 92

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

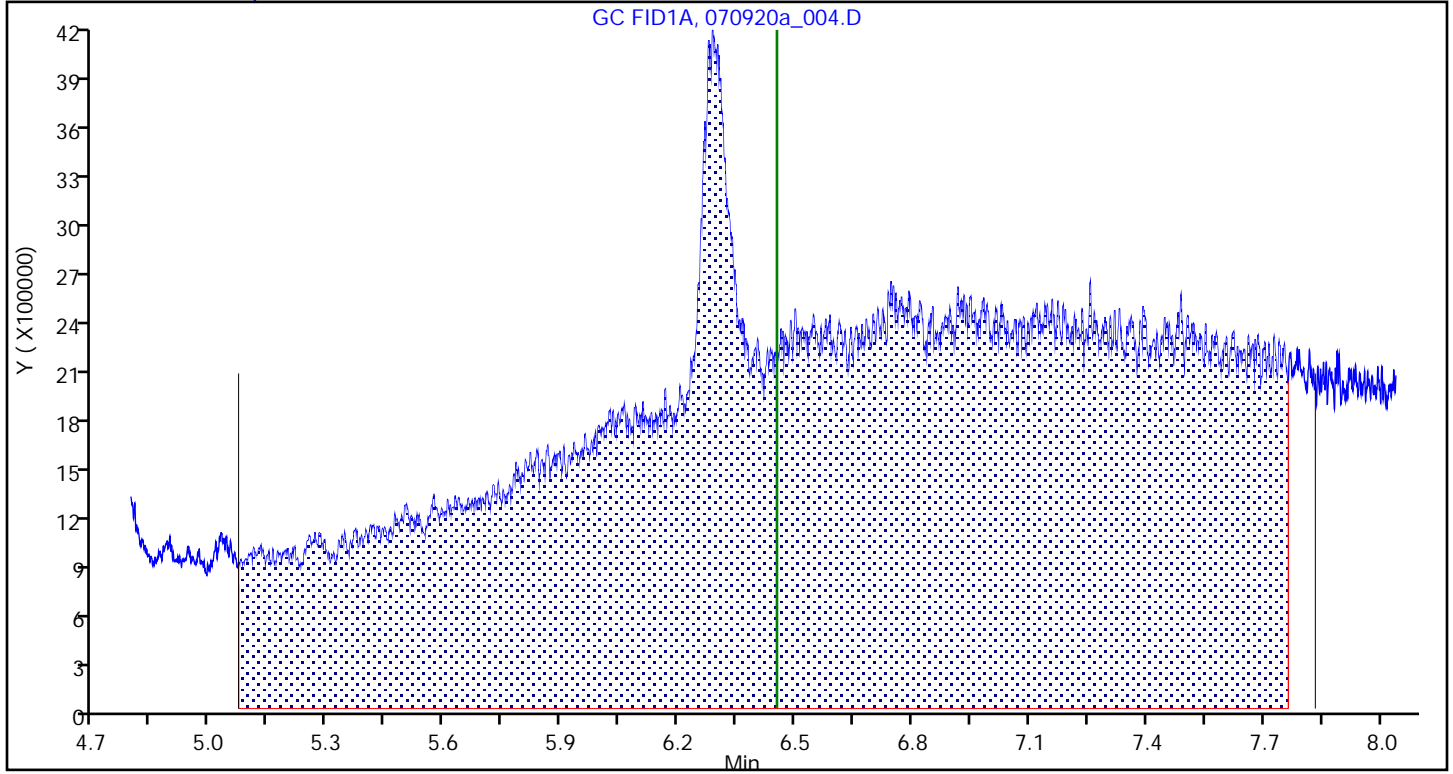
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_004.D

Injection Date: 09-Jul-2020 10:49:56

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 92

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

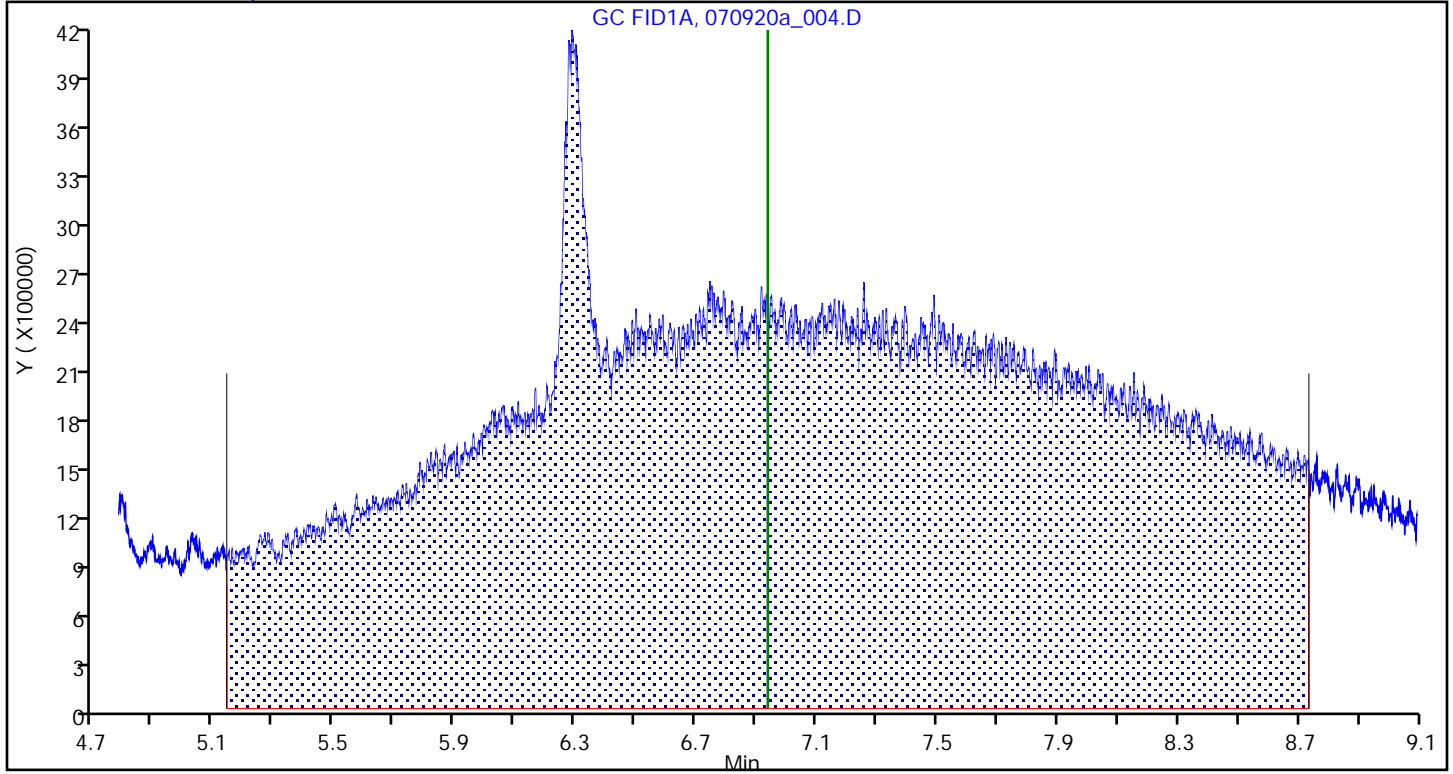
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_005.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 09-Jul-2020 11:09:49 ALS Bottle#: 93 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 2k  
 Operator ID: jcm Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 10-Jul-2020 06:34:18 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1016

First Level Reviewer: mohammedjc Date: 09-Jul-2020 15:14:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	3.062	(1.053-5.071)		280897364	2000.0	2029.5	
A 55 C9-C25	3.069	(0.830-5.307)		296690131	NC	NC	
A 35 C10-C25	3.126	(1.053-5.199)		284071830	NC	NC	
A 9 C12-C24	3.413	(1.754-5.071)		239538784	2000.0	2032.9	
A 25 C10-C28	3.528	(1.053-6.002)		311121661	NC	NC	
\$ 10 o-Terphenyl	3.673	3.671	0.002	5742946	41.3	38.0	
A 14 C24-C32	6.020	(5.071-6.968)		86262704	NC	NC	
\$ 33 n-Triacontane-d62	6.261	6.316	-0.055	3806422	NC	NC	M
A 15 Motor Oil	6.418	(5.071-7.834)		131442647	2000.0	2006.5	
A 26 C24-C36	6.418	(5.071-7.834)		131442647	NC	NC	
A 32 C25-C36	6.482	(5.199-7.834)		128268182	NC	NC	
A 52 C24-C40	6.938	(5.141-8.734)		166954404	2000.0	1980.9	
A 30 C28-C40	7.316	(6.002-8.670)		135273786	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

TPH-IC\*\_10000\_00008 Amount Added: 0.20 Units: mL  
 MeCl2\_CT\_00183 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_005.D

Injection Date: 09-Jul-2020 11:09:49

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 93

Worklist Smp#: 5

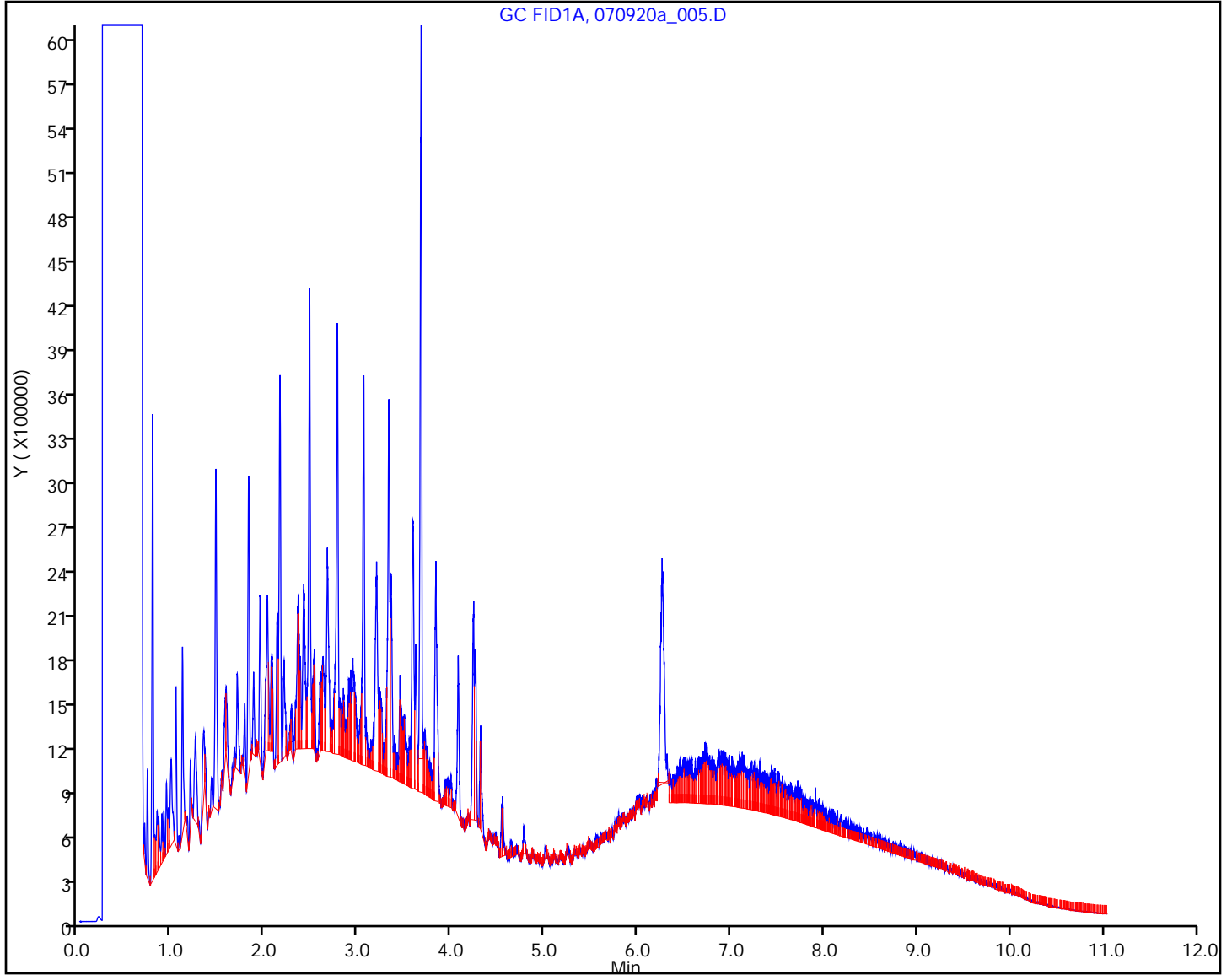
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_005.D

Injection Date: 09-Jul-2020 11:09:49

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 93

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

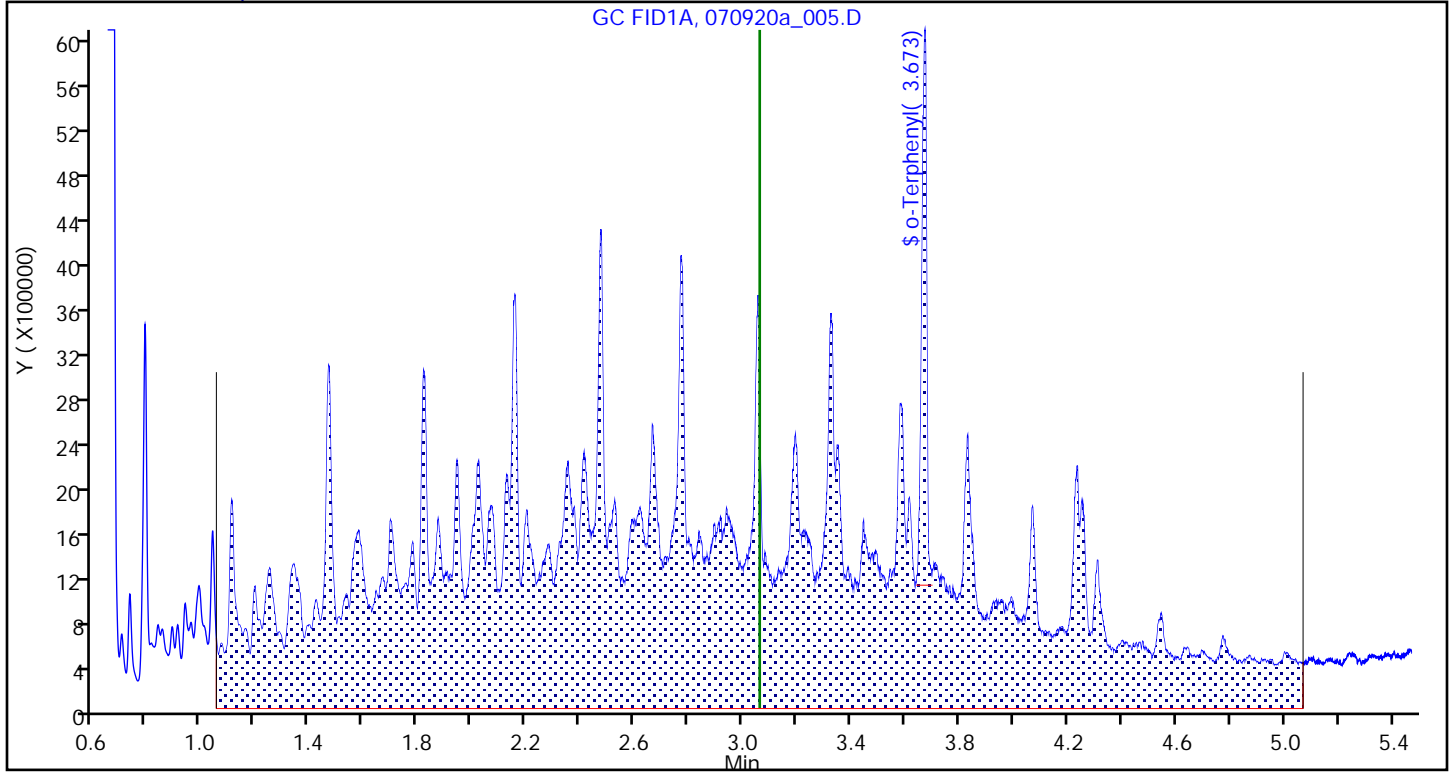
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_005.D

Injection Date: 09-Jul-2020 11:09:49

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 93

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

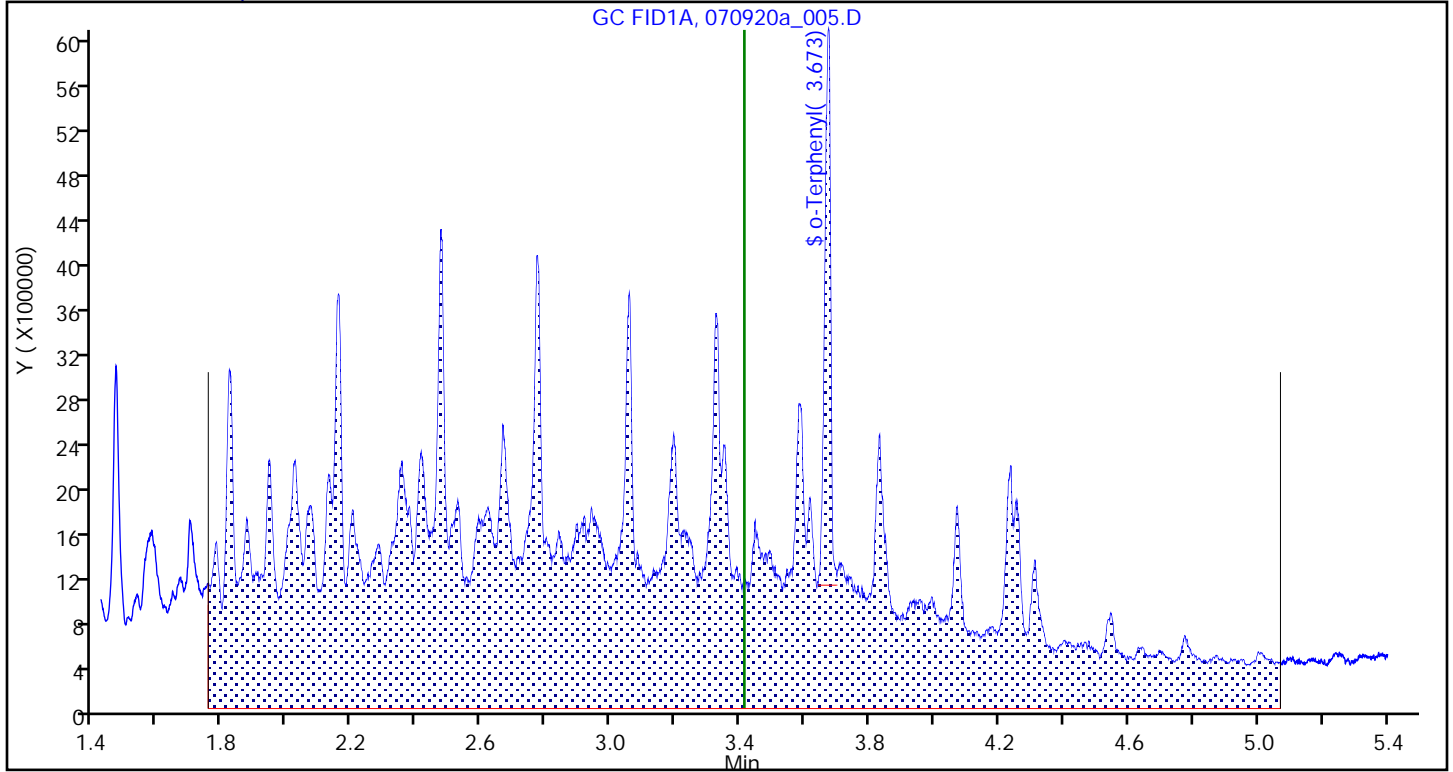
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 9 C12-C24, CAS: STL00096**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_005.D

Injection Date: 09-Jul-2020 11:09:49

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 93

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

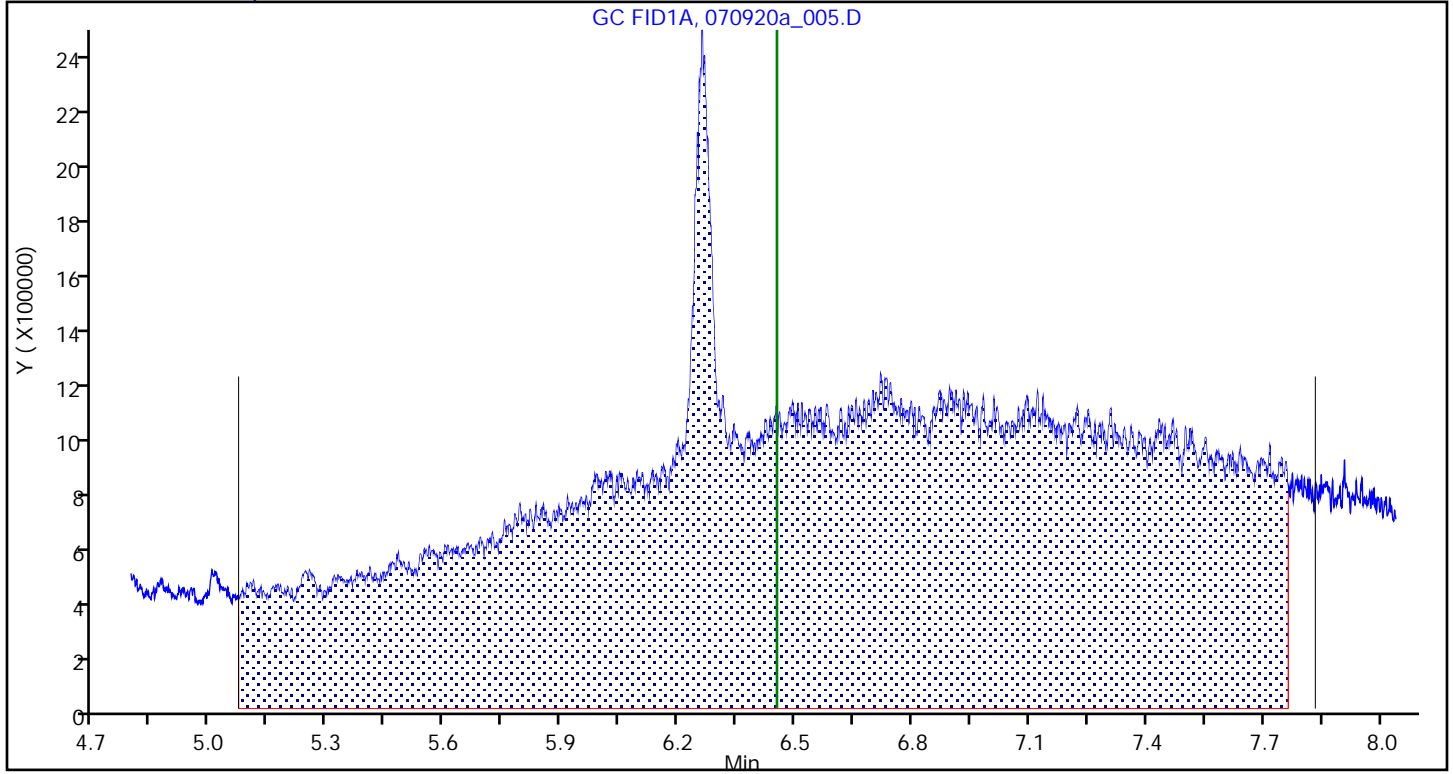
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_005.D

Injection Date: 09-Jul-2020 11:09:49

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 93

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

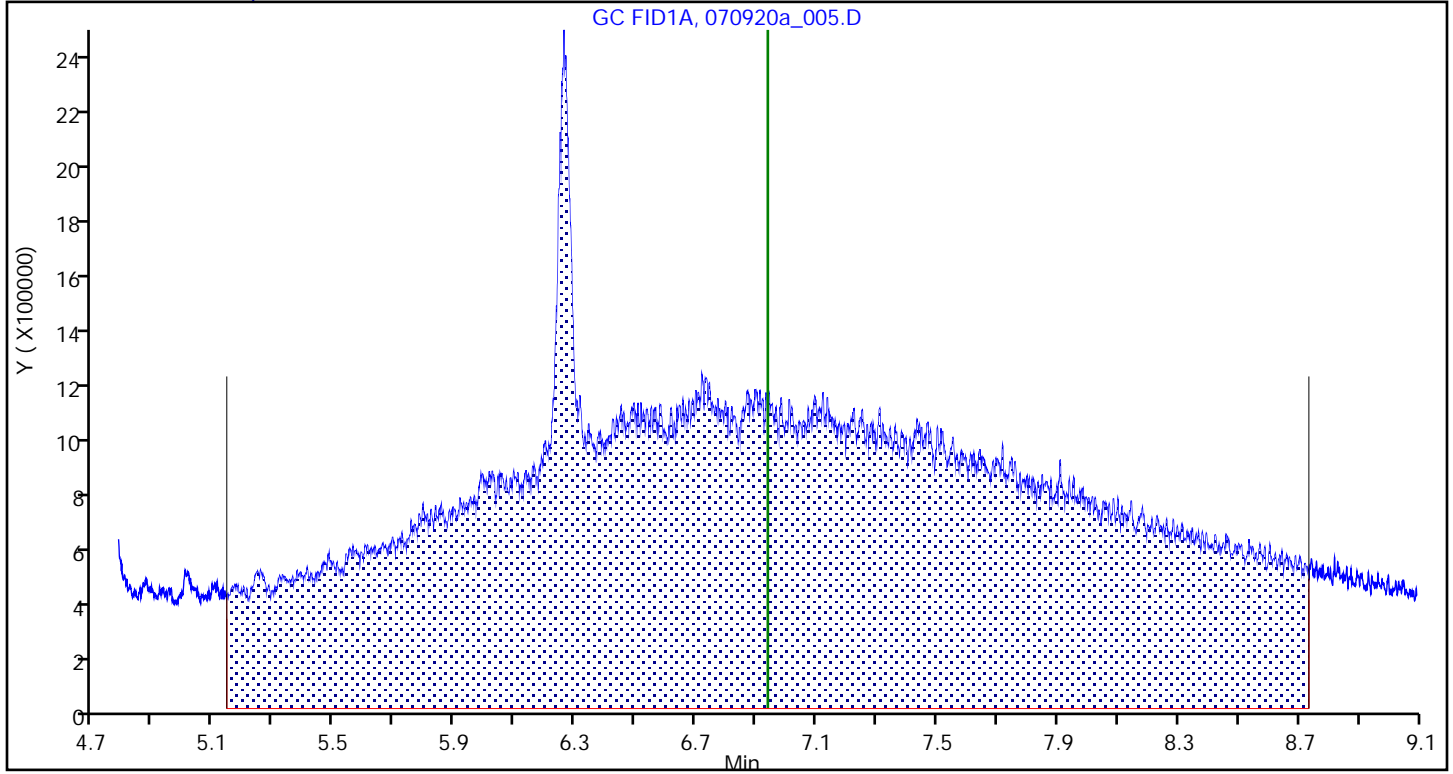
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**





Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_006.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 09-Jul-2020 11:29:41 ALS Bottle#: 94 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 1k  
 Operator ID: jcm Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 10-Jul-2020 06:34:23 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1016

First Level Reviewer: mohammedjc Date: 09-Jul-2020 15:14:42

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	3.062	(1.053-5.071)		140805308	1000.0	1016.7	
A 55 C9-C25	3.069	(0.830-5.307)		148715527	NC	NC	
A 35 C10-C25	3.126	(1.053-5.199)		142394831	NC	NC	
A 9 C12-C24	3.413	(1.754-5.071)		119939399	1000.0	1017.3	
A 25 C10-C28	3.528	(1.053-6.002)		156012167	NC	NC	
\$ 10 o-Terphenyl	3.663	3.663	0.000	3100646	20.7	20.5	
A 14 C24-C32	6.020	(5.071-6.968)		43218251	NC	NC	
\$ 33 n-Triacontane-d62	6.258	6.258	0.000	1942603	NC	NC	Ma
A 26 C24-C36	6.418	(5.071-7.834)		65529316	NC	NC	
A 15 Motor Oil	6.418	(5.071-7.834)		65529316	1000.0	999.6	
A 32 C25-C36	6.482	(5.199-7.834)		63939637	NC	NC	
A 52 C24-C40	6.938	(5.141-8.734)		82570796	1000.0	978.8	
A 30 C28-C40	7.316	(6.002-8.670)		66703560	NC	NC	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

TPH-IC\*\_10000\_00008 Amount Added: 0.10 Units: mL  
 MeCl2\_CT\_00183 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_006.D

Injection Date: 09-Jul-2020 11:29:41

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 94

Worklist Smp#: 6

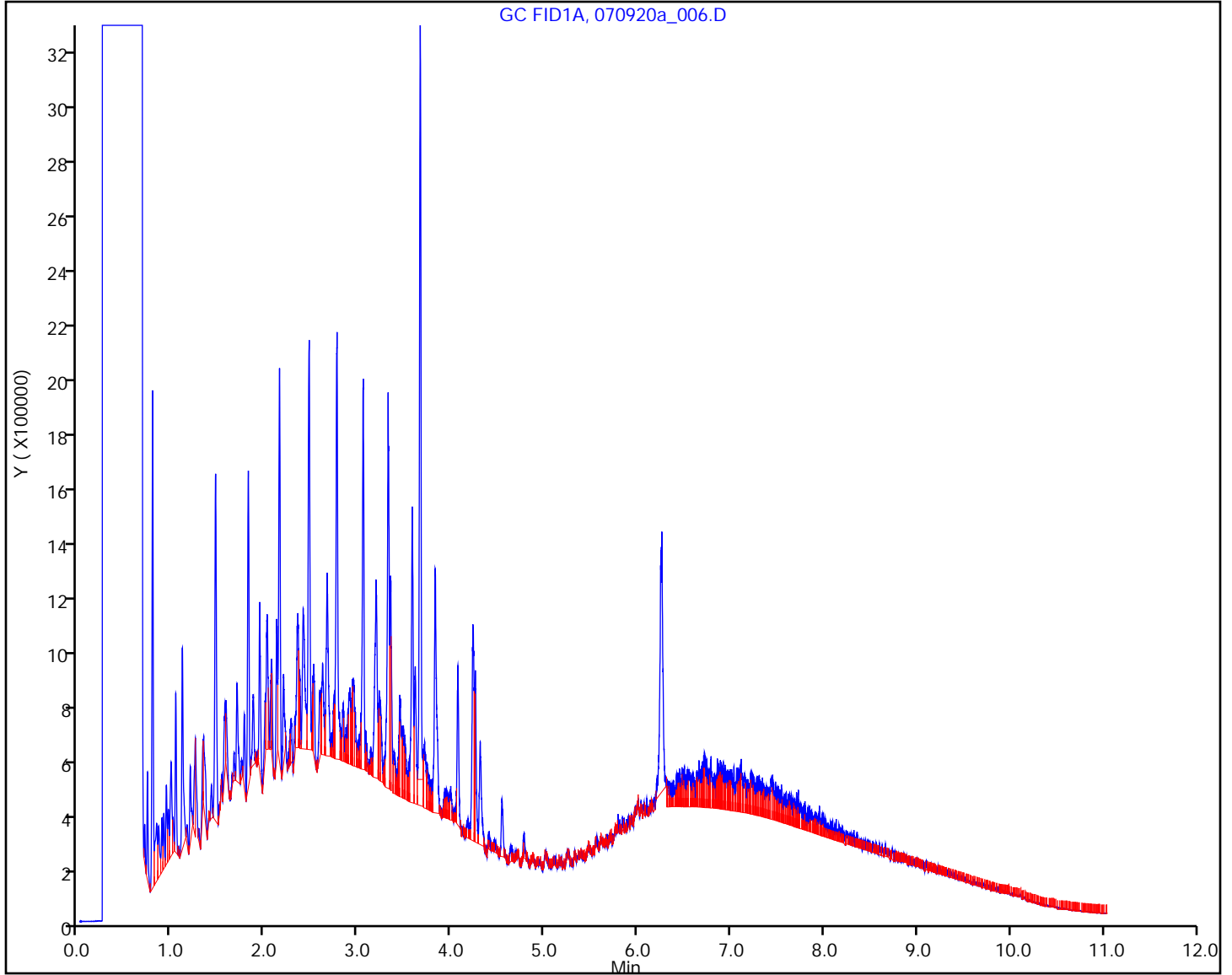
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_006.D

Injection Date: 09-Jul-2020 11:29:41

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 94

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

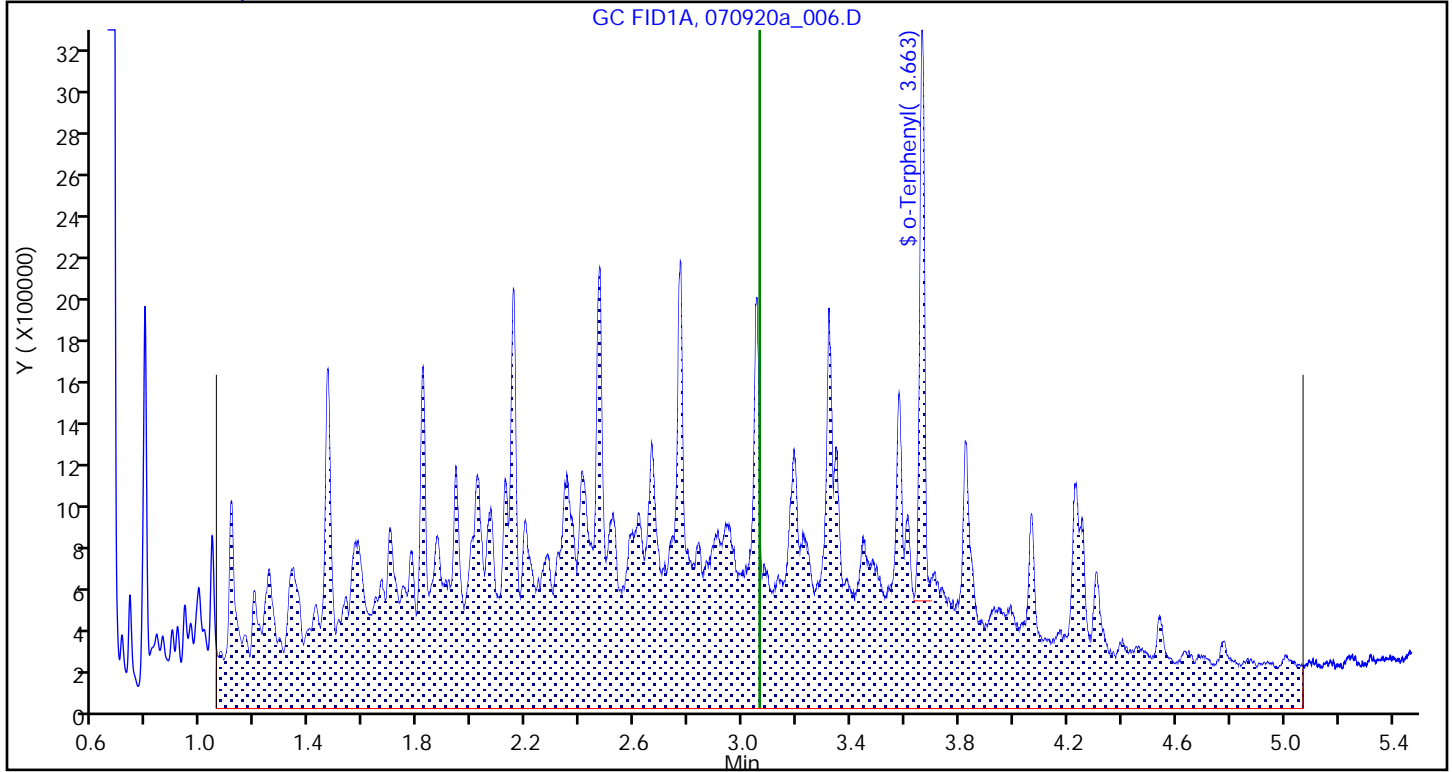
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_006.D

Injection Date: 09-Jul-2020 11:29:41

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 94

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

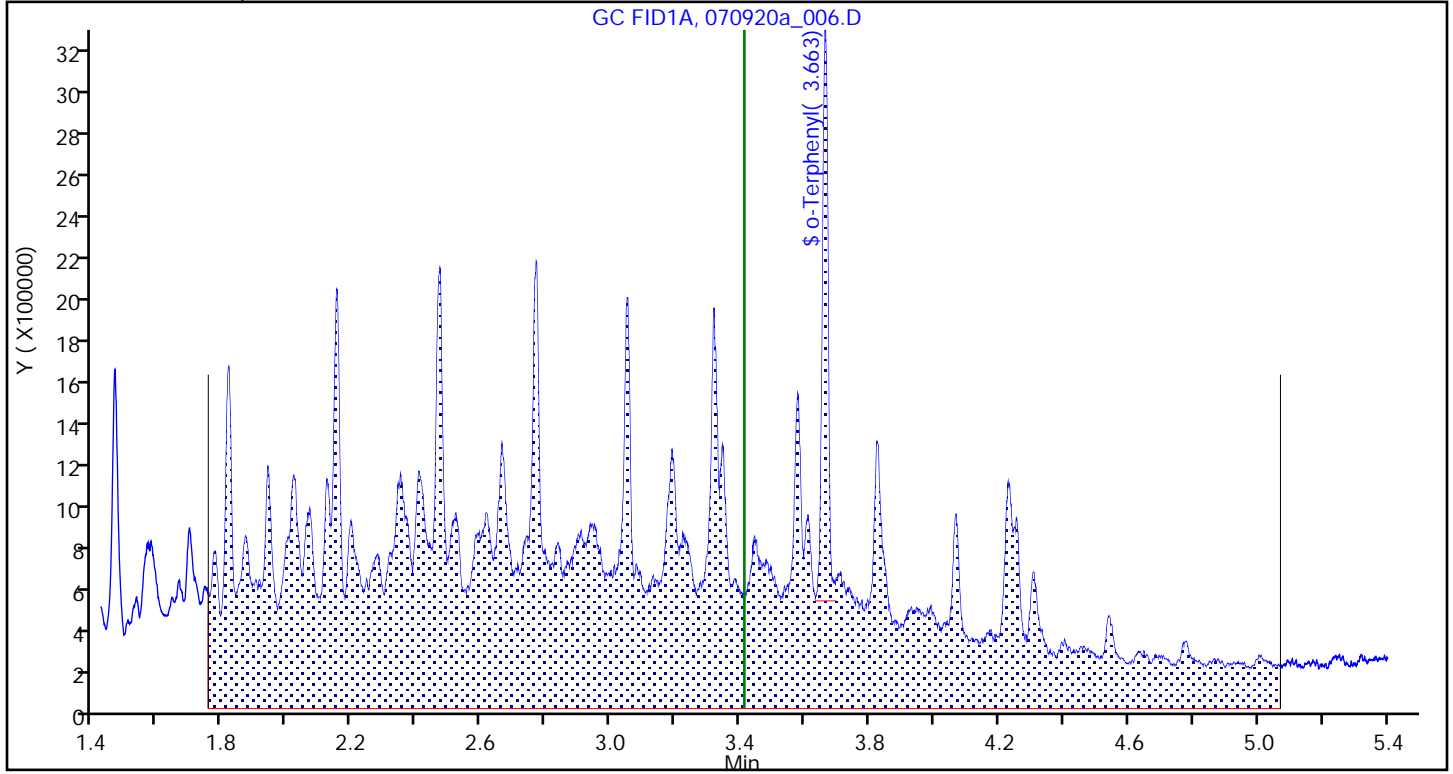
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

A 9 C12-C24, CAS: STL00096



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_006.D

Injection Date: 09-Jul-2020 11:29:41

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 94

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

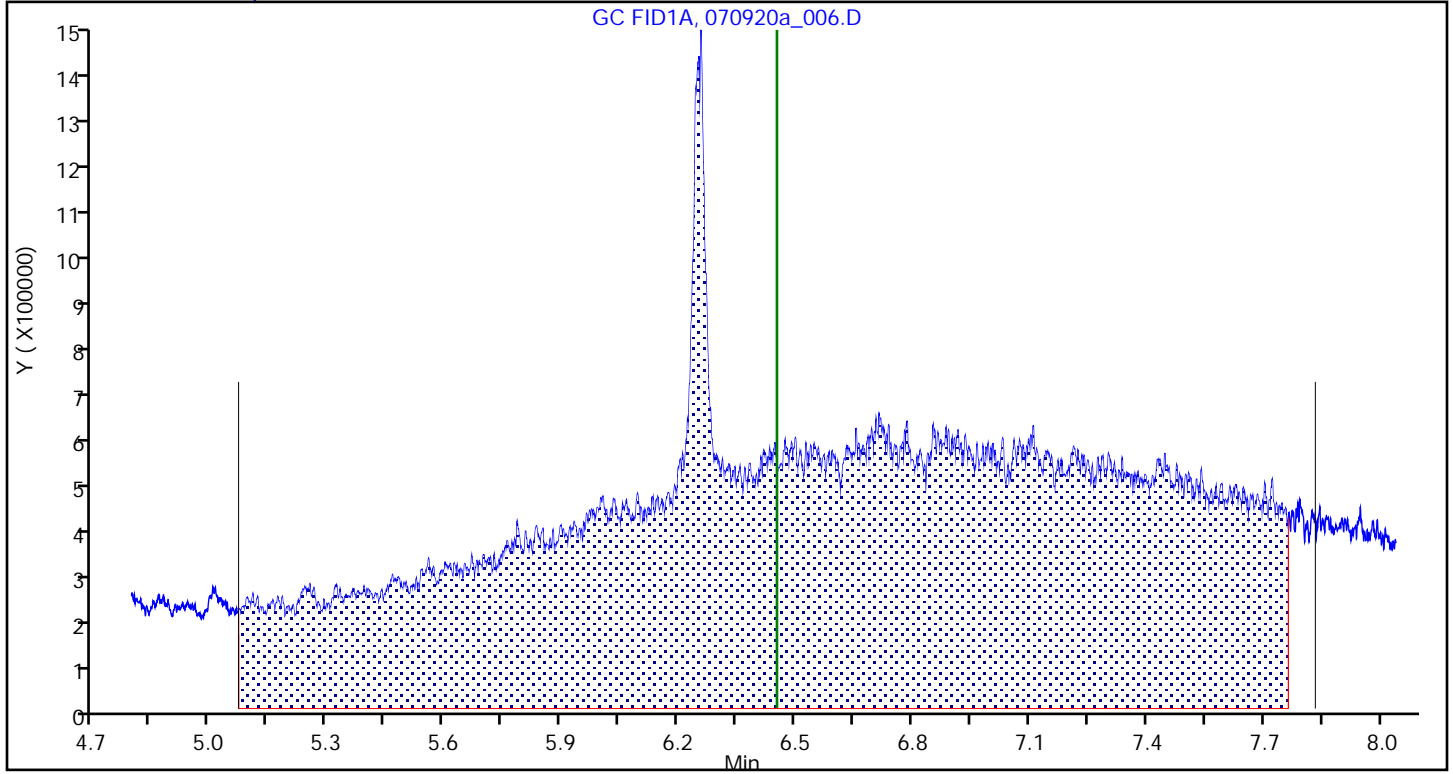
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_006.D

Injection Date: 09-Jul-2020 11:29:41

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 94

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

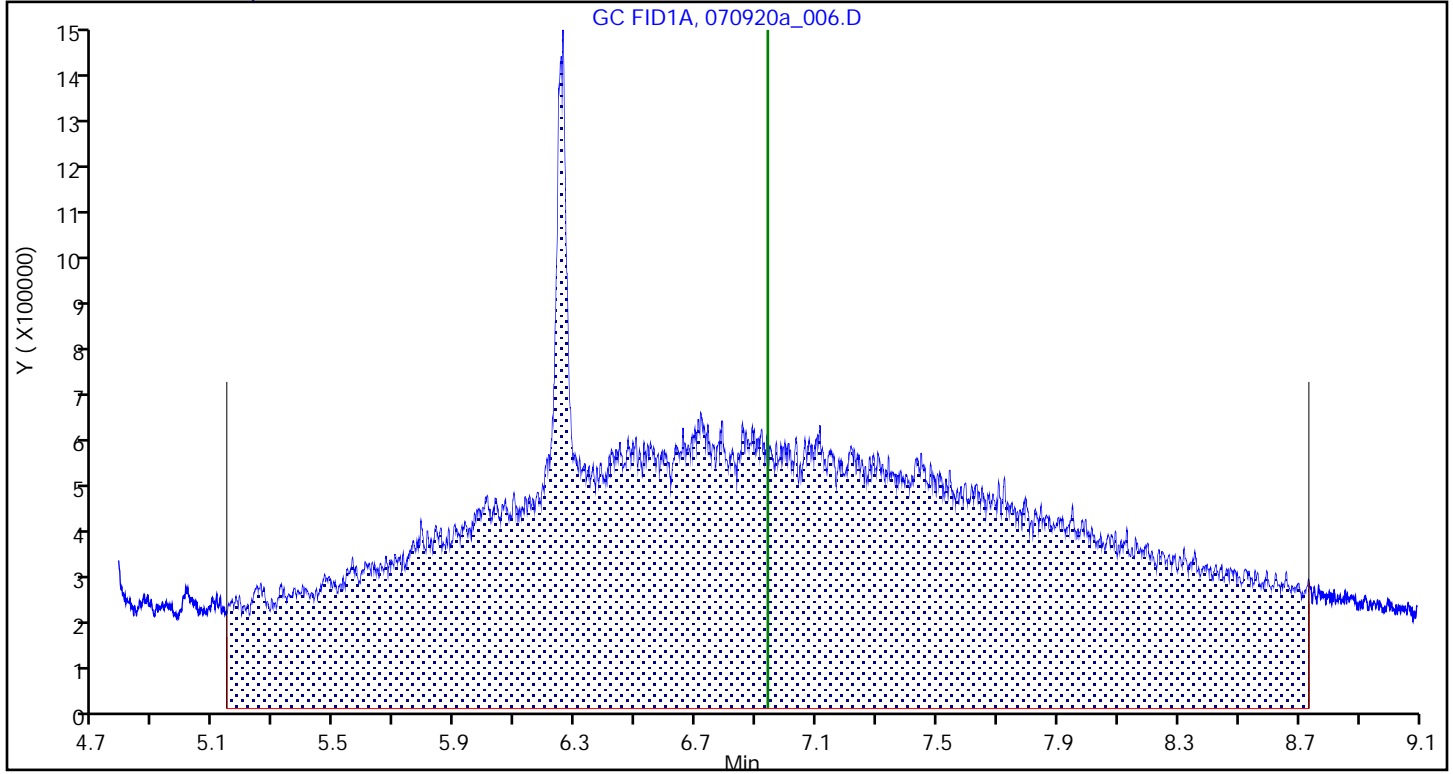
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_007.D  
 Lims ID: ICRT  
 Client ID:  
 Sample Type: ICRT Calib Level: 5  
 Inject. Date: 09-Jul-2020 11:49:36 ALS Bottle#: 95 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 500  
 Operator ID: jcm Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 10-Jul-2020 06:34:29 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1016

First Level Reviewer: mohammedjc Date: 09-Jul-2020 15:14:52

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	3.062	(1.053-5.071)		71256647	500.0	514.0	
A 55 C9-C25	3.069	(0.830-5.307)		75316292	NC	NC	
A 35 C10-C25	3.126	(1.053-5.199)		72075367	NC	NC	
A 9 C12-C24	3.413	(1.754-5.071)		60701558	500.0	514.3	
A 25 C10-C28	3.528	(1.053-6.002)		79256261	NC	NC	
\$ 10 o-Terphenyl	3.660	3.660	0.000	1621796	10.3	10.7	
A 14 C24-C32	6.020	(5.071-6.968)		22813619	NC	NC	
\$ 33 n-Triacontane-d62	6.227	6.227	0.000	946178	NC	NC	Ma
A 15 Motor Oil	6.418	(5.071-7.834)		34325986	500.0	523.0	
A 26 C24-C36	6.418	(5.071-7.834)		34325986	NC	NC	
A 32 C25-C36	6.482	(5.199-7.834)		33507267	NC	NC	
A 52 C24-C40	6.938	(5.141-8.734)		42913681	500.0	507.8	
A 30 C28-C40	7.316	(6.002-8.670)		34608300	NC	NC	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

TPH-IC\*\_500\_00011 Amount Added: 1.00 Units: mL  
 MeCl2\_CT\_00183 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_007.D

Injection Date: 09-Jul-2020 11:49:36

Instrument ID: TAC013

Lims ID: ICRT

Client ID:

Operator ID: jcm

ALS Bottle#: 95

Worklist Smp#: 7

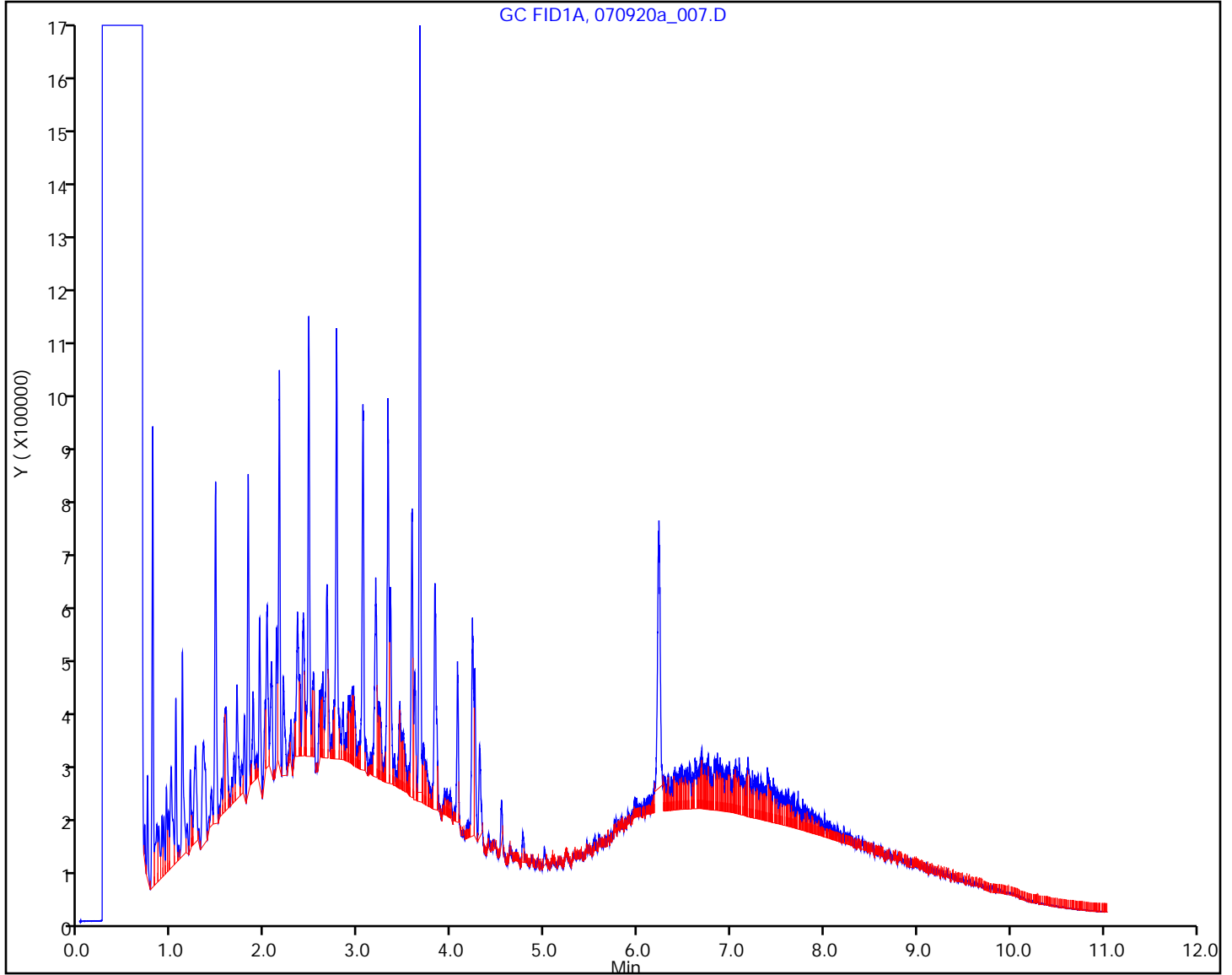
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_007.D

Injection Date: 09-Jul-2020 11:49:36

Instrument ID: TAC013

Lims ID: ICRT

Client ID:

Operator ID: jcm

ALS Bottle#: 95

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

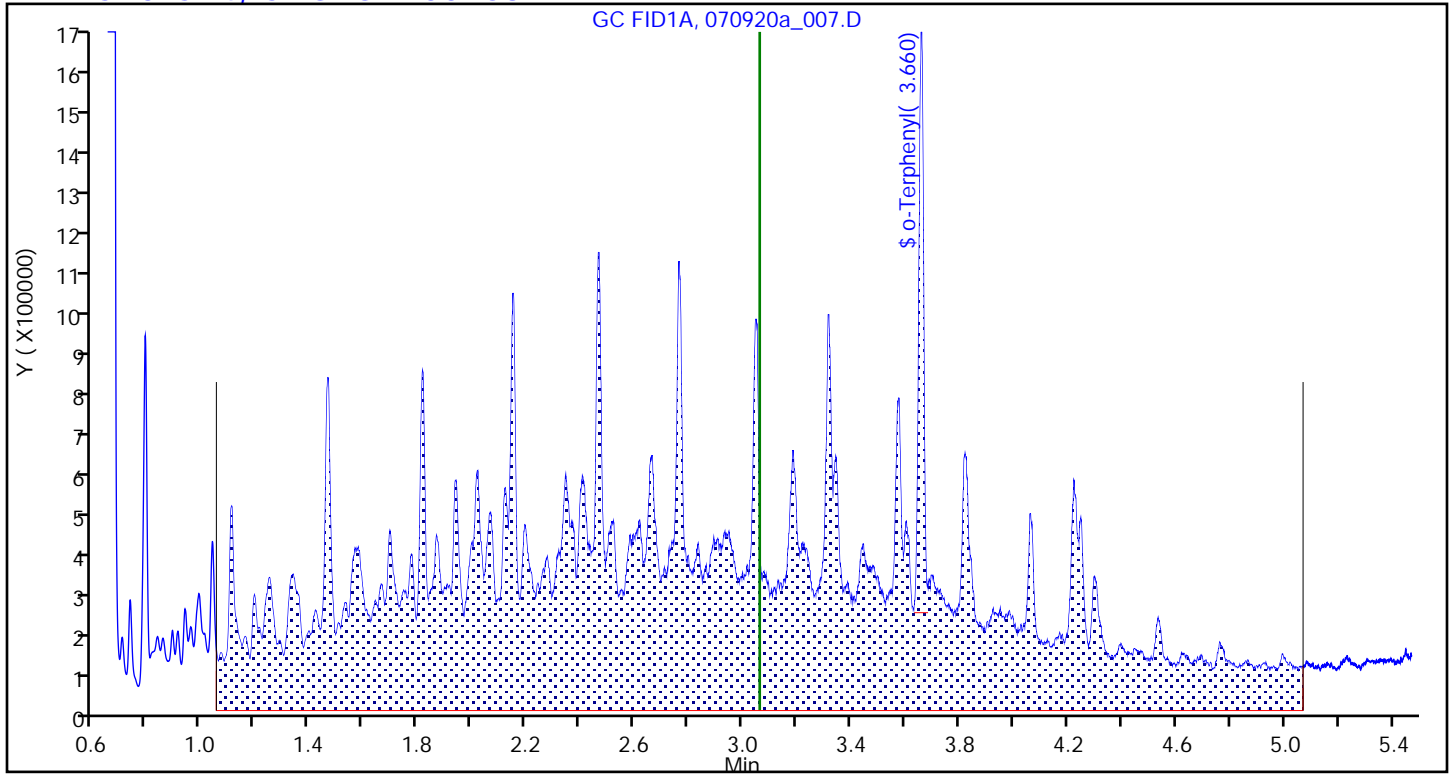
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_007.D

Injection Date: 09-Jul-2020 11:49:36

Instrument ID: TAC013

Lims ID: ICRT

Client ID:

Operator ID: jcm

ALS Bottle#: 95

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

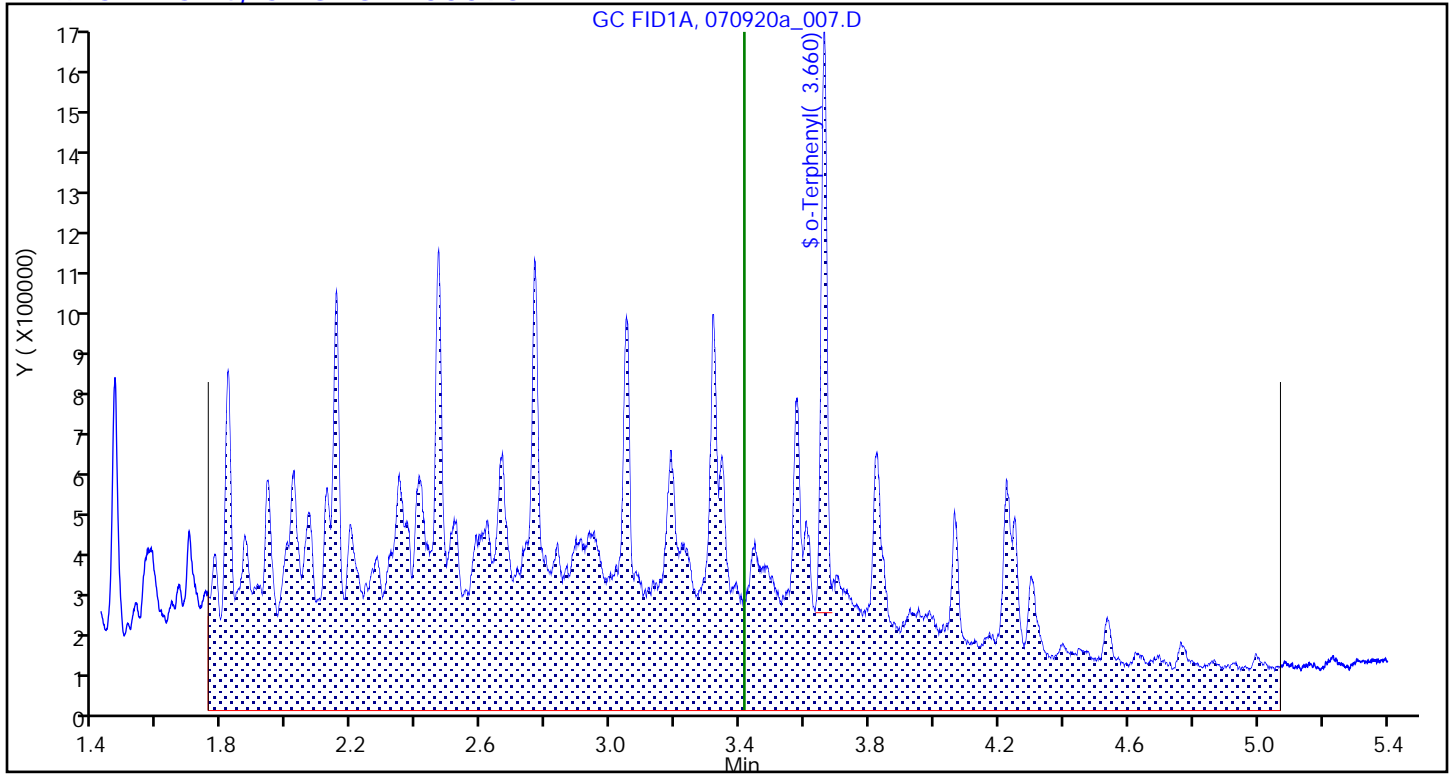
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

A 9 C12-C24, CAS: STL00096



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_007.D

Injection Date: 09-Jul-2020 11:49:36

Instrument ID: TAC013

Lims ID: ICRT

Client ID:

Operator ID: jcm

ALS Bottle#: 95

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

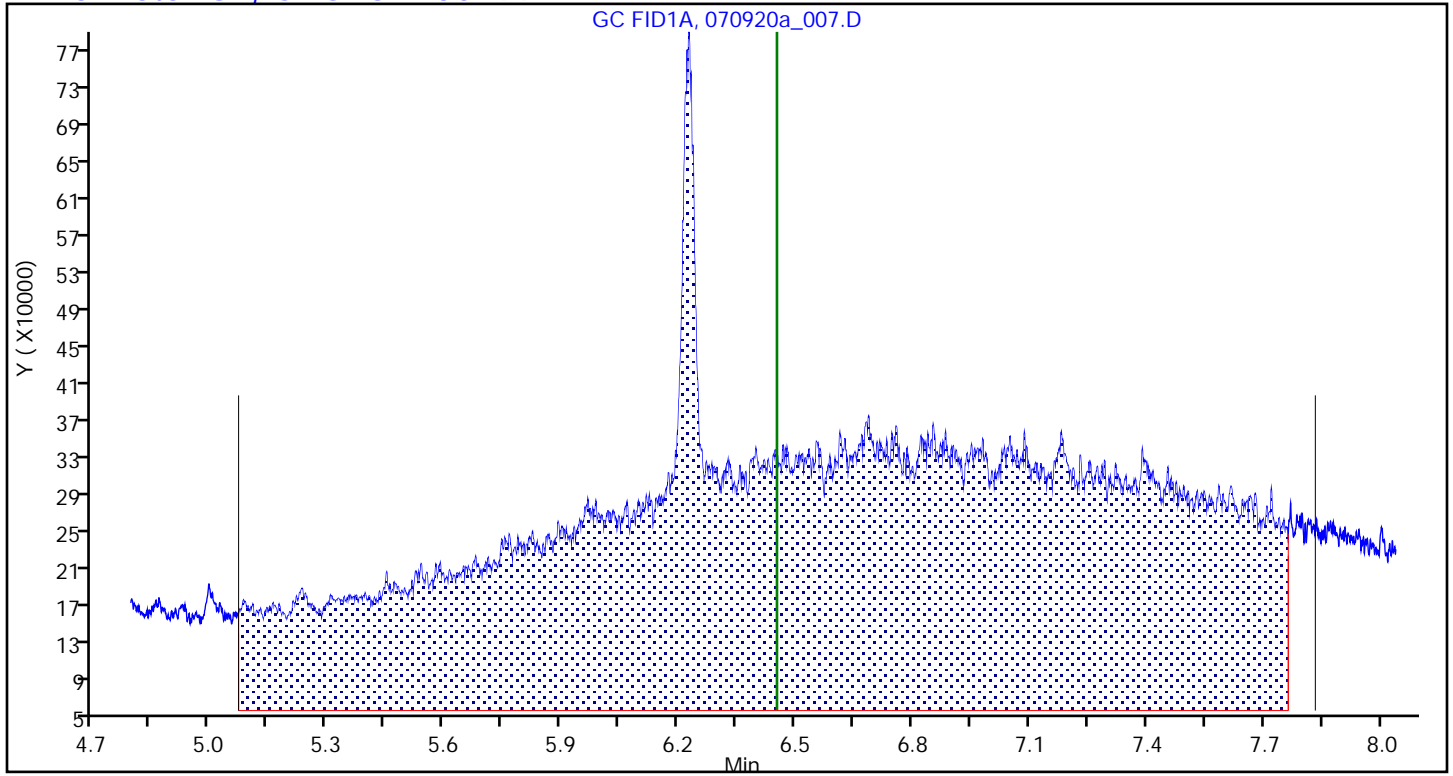
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_007.D

Injection Date: 09-Jul-2020 11:49:36

Instrument ID: TAC013

Lims ID: ICRT

Client ID:

Operator ID: jcm

ALS Bottle#: 95

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

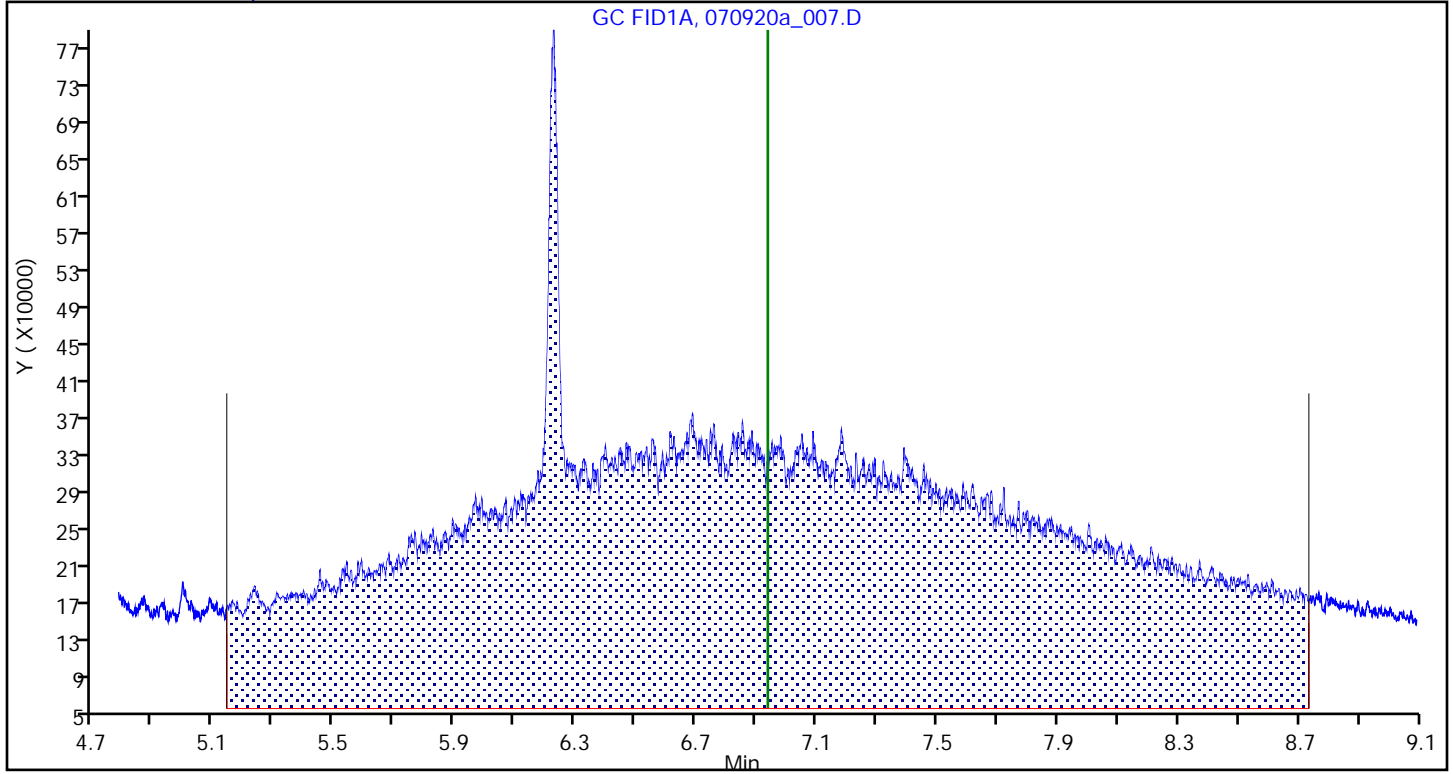
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_008.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 09-Jul-2020 12:09:27 ALS Bottle#: 96 Worklist Smp#: 8  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 200  
 Operator ID: jcm Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 10-Jul-2020 06:34:35 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1016

First Level Reviewer: mohammedjc Date: 09-Jul-2020 15:15:00

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	3.062	(1.053-5.071)		28532767	200.0	205.1	
A 55 C9-C25	3.069	(0.830-5.307)		30162623	NC	NC	
A 35 C10-C25	3.126	(1.053-5.199)		28855726	NC	NC	
A 9 C12-C24	3.413	(1.754-5.071)		24300854	200.0	205.2	
A 25 C10-C28	3.528	(1.053-6.002)		31662088	NC	NC	
\$ 10 o-Terphenyl	3.657	3.660	-0.003	626532	4.13	4.14	
A 14 C24-C32	6.020	(5.071-6.968)		8944950	NC	NC	
\$ 33 n-Triacontane-d62	6.243	6.227	0.016	422192	NC	NC	Ma
A 26 C24-C36	6.418	(5.071-7.834)		13620602	NC	NC	
A 15 Motor Oil	6.418	(5.071-7.834)		13620602	200.0	206.7	
A 32 C25-C36	6.482	(5.199-7.834)		13297643	NC	NC	
A 52 C24-C40	6.938	(5.141-8.734)		17176545	200.0	202.2	
A 30 C28-C40	7.316	(6.002-8.670)		13908195	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

TPH-IC\*\_500\_00011 Amount Added: 0.40 Units: mL  
 MeCl2\_CT\_00183 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_008.D

Injection Date: 09-Jul-2020 12:09:27

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 96

Worklist Smp#: 8

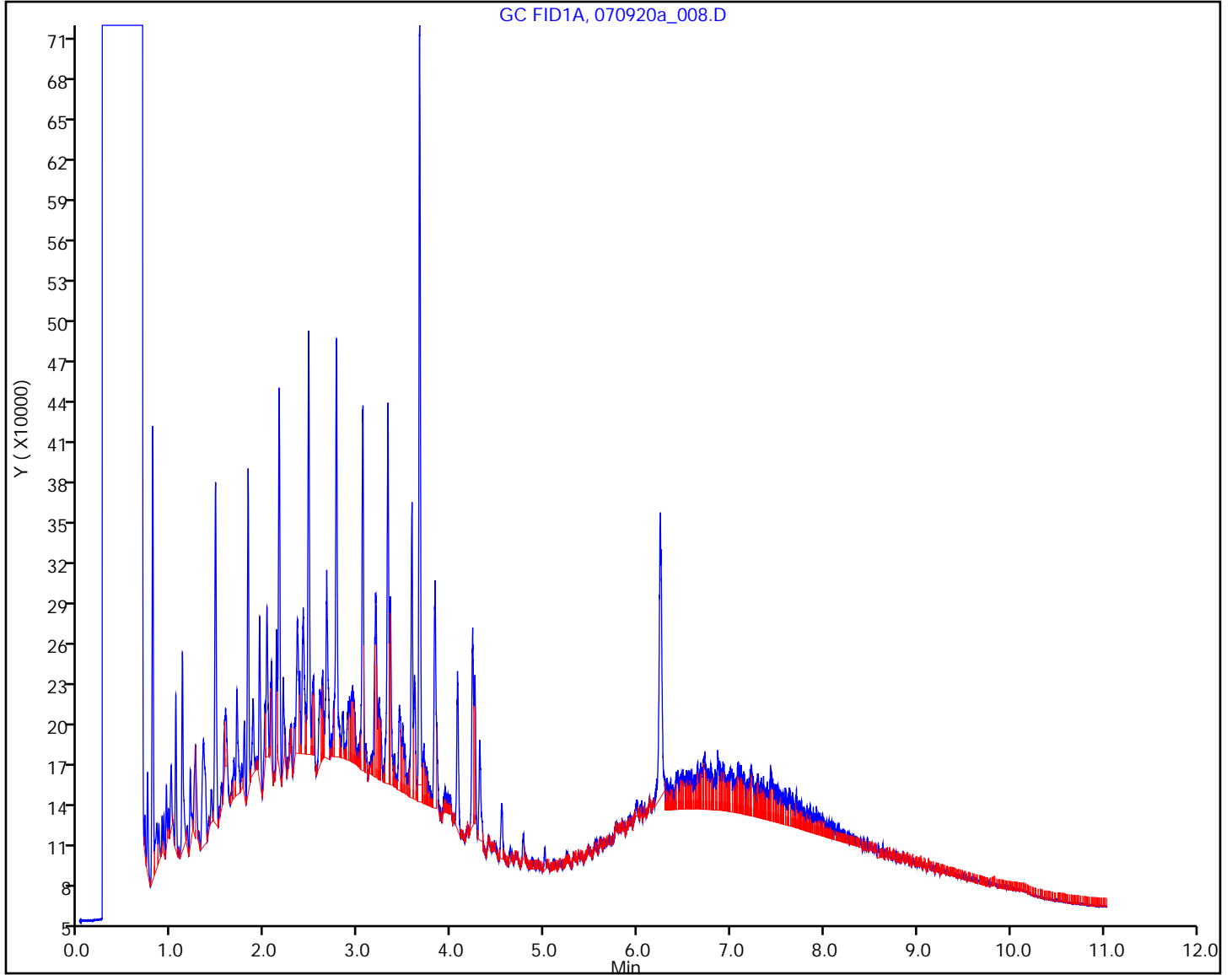
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_008.D

Injection Date: 09-Jul-2020 12:09:27

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 96

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

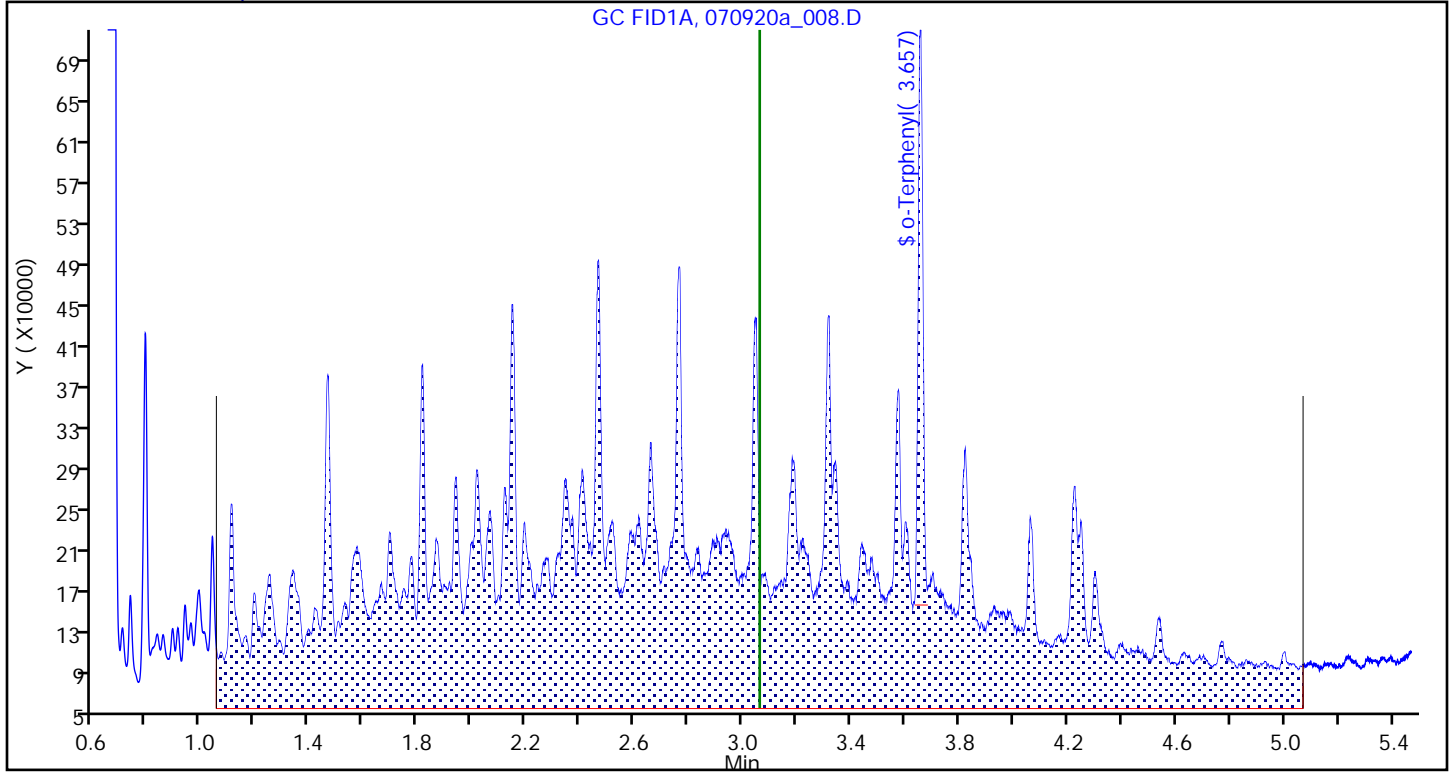
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_008.D

Injection Date: 09-Jul-2020 12:09:27

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 96

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

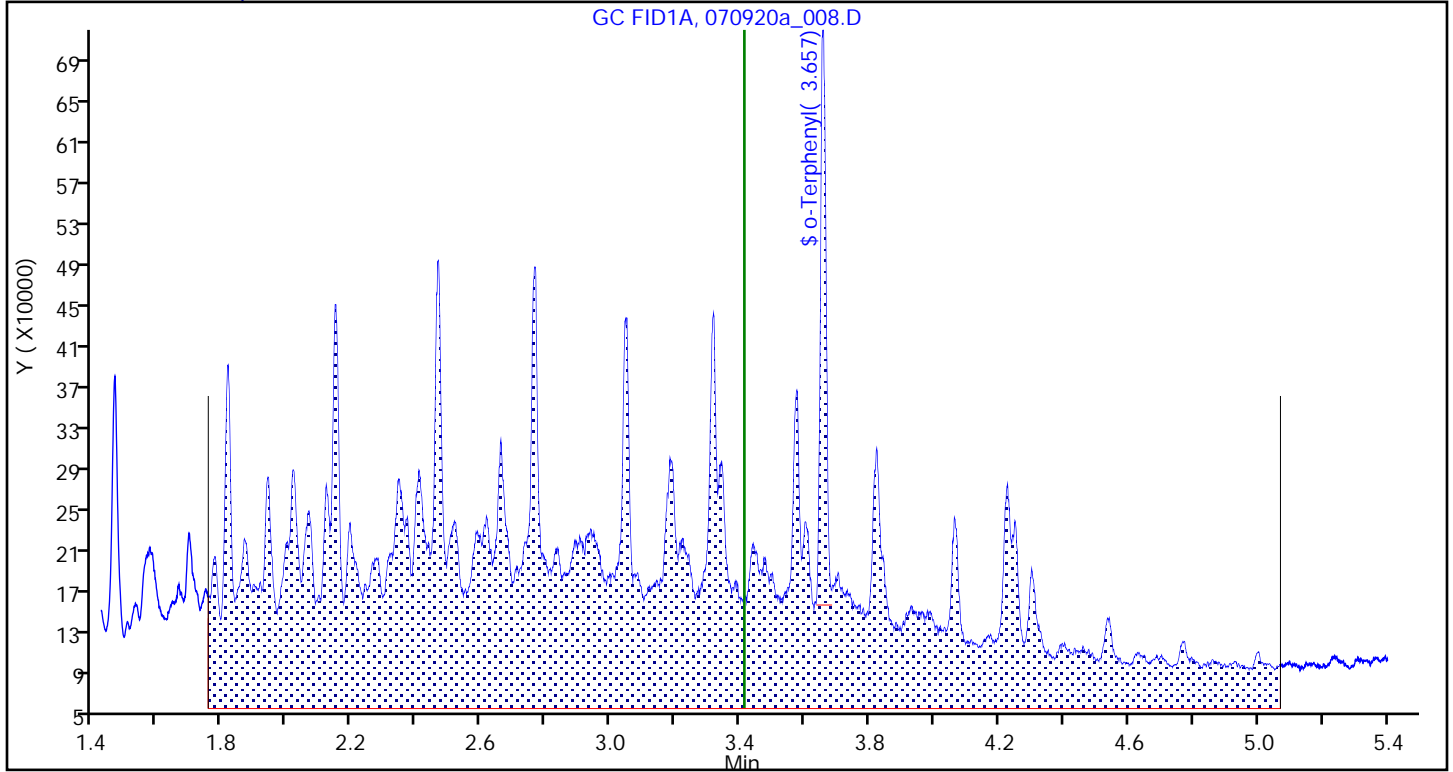
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 9 C12-C24, CAS: STL00096**





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_008.D

Injection Date: 09-Jul-2020 12:09:27

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 96

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

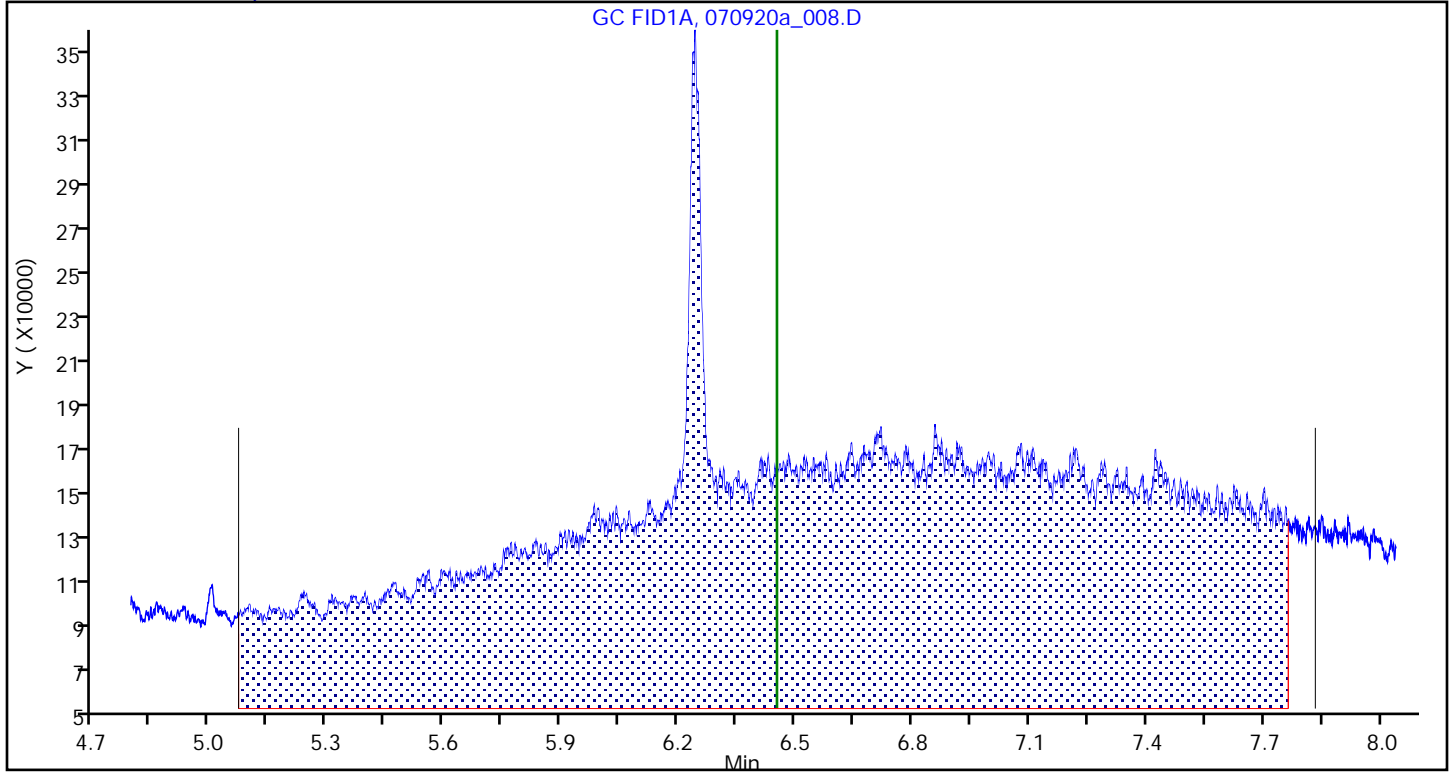
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_008.D

Injection Date: 09-Jul-2020 12:09:27

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 96

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

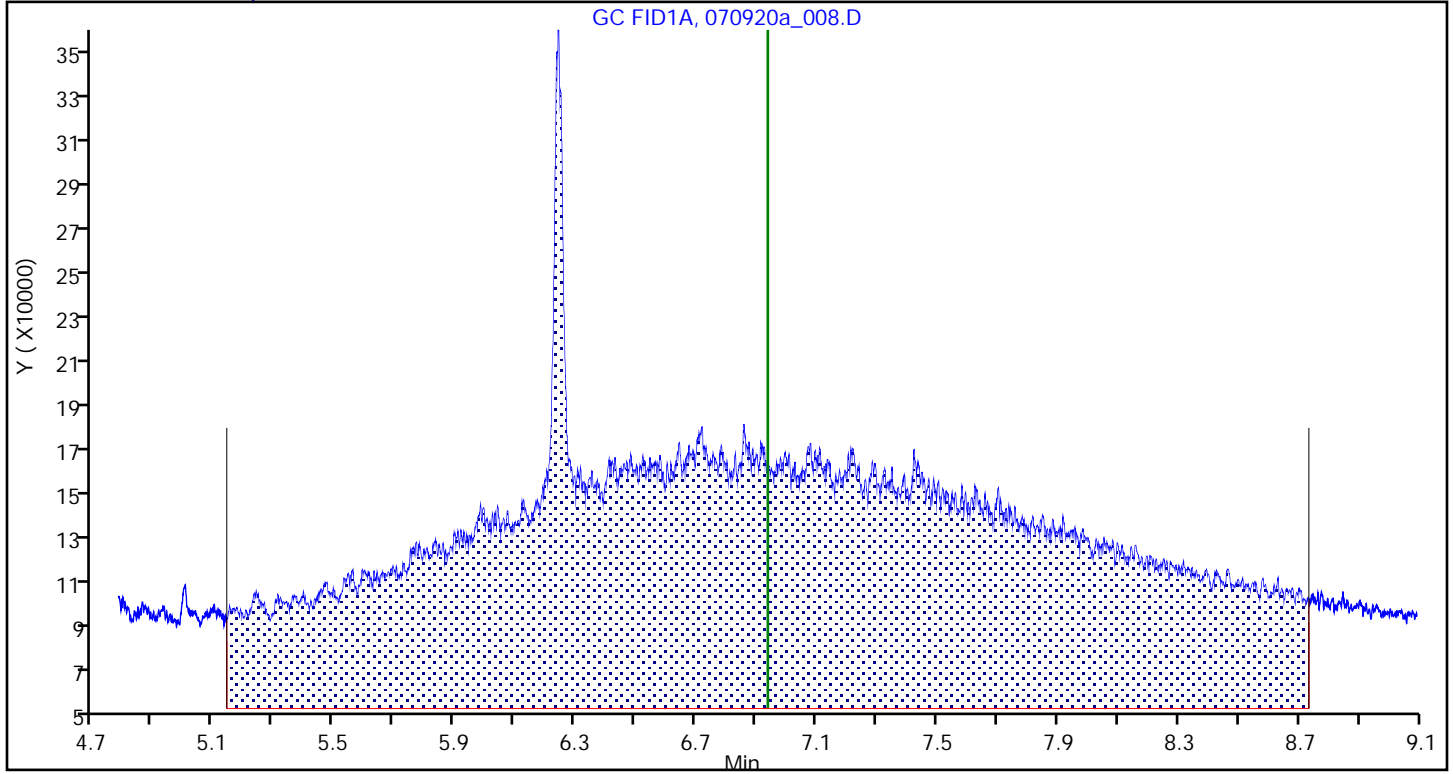
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_009.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 09-Jul-2020 12:29:27 ALS Bottle#: 97 Worklist Smp#: 9  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 100  
 Operator ID: jcm Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 10-Jul-2020 06:34:42 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1016

First Level Reviewer: mohammedjc Date: 09-Jul-2020 15:15:08

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	3.062	(1.053-5.071)		14154598	100.0	101.2	
A 55 C9-C25	3.069	(0.830-5.307)		14968705	NC	NC	
A 35 C10-C25	3.126	(1.053-5.199)		14310712	NC	NC	
A 9 C12-C24	3.413	(1.754-5.071)		12041913	100.0	101.1	
A 25 C10-C28	3.528	(1.053-6.002)		15666663	NC	NC	
\$ 10 o-Terphenyl	3.658	3.660	-0.002	315389	2.07	2.09	
A 14 C24-C32	6.020	(5.071-6.968)		4416167	NC	NC	
\$ 33 n-Triacontane-d62	6.260	6.227	0.033	183751	NC	NC	Ma
A 15 Motor Oil	6.418	(5.071-7.834)		6748441	100.0	101.7	
A 26 C24-C36	6.418	(5.071-7.834)		6748441	NC	NC	
A 32 C25-C36	6.482	(5.199-7.834)		6592327	NC	NC	
A 52 C24-C40	6.938	(5.141-8.734)		8554593	100.0	99.8	
A 30 C28-C40	7.316	(6.002-8.670)		6965497	NC	NC	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

TPH-IC\*\_500\_00011 Amount Added: 0.20 Units: mL  
 MeCl2\_CT\_00183 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_009.D

Injection Date: 09-Jul-2020 12:29:27

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 97

Worklist Smp#: 9

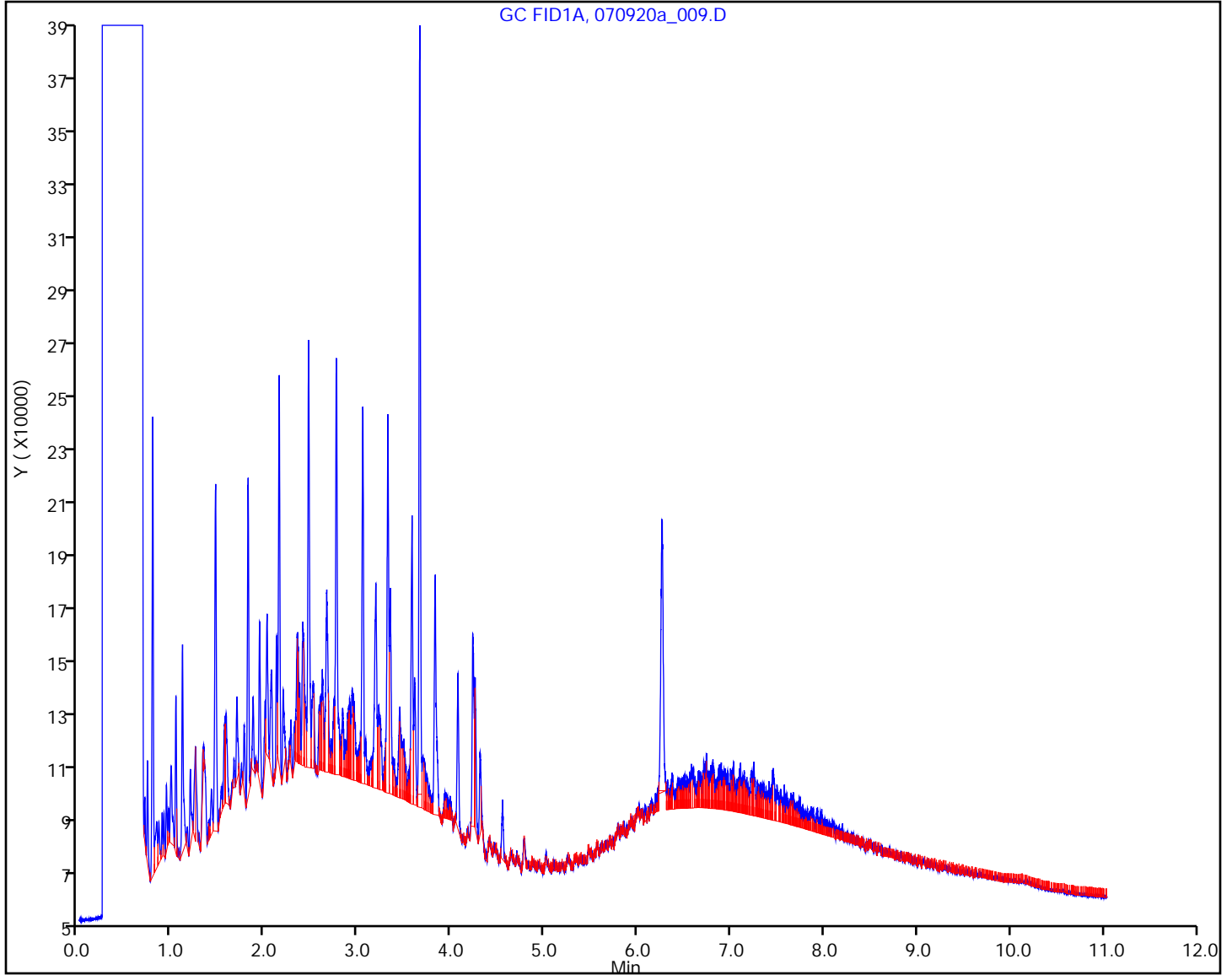
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_009.D

Injection Date: 09-Jul-2020 12:29:27

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 97

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

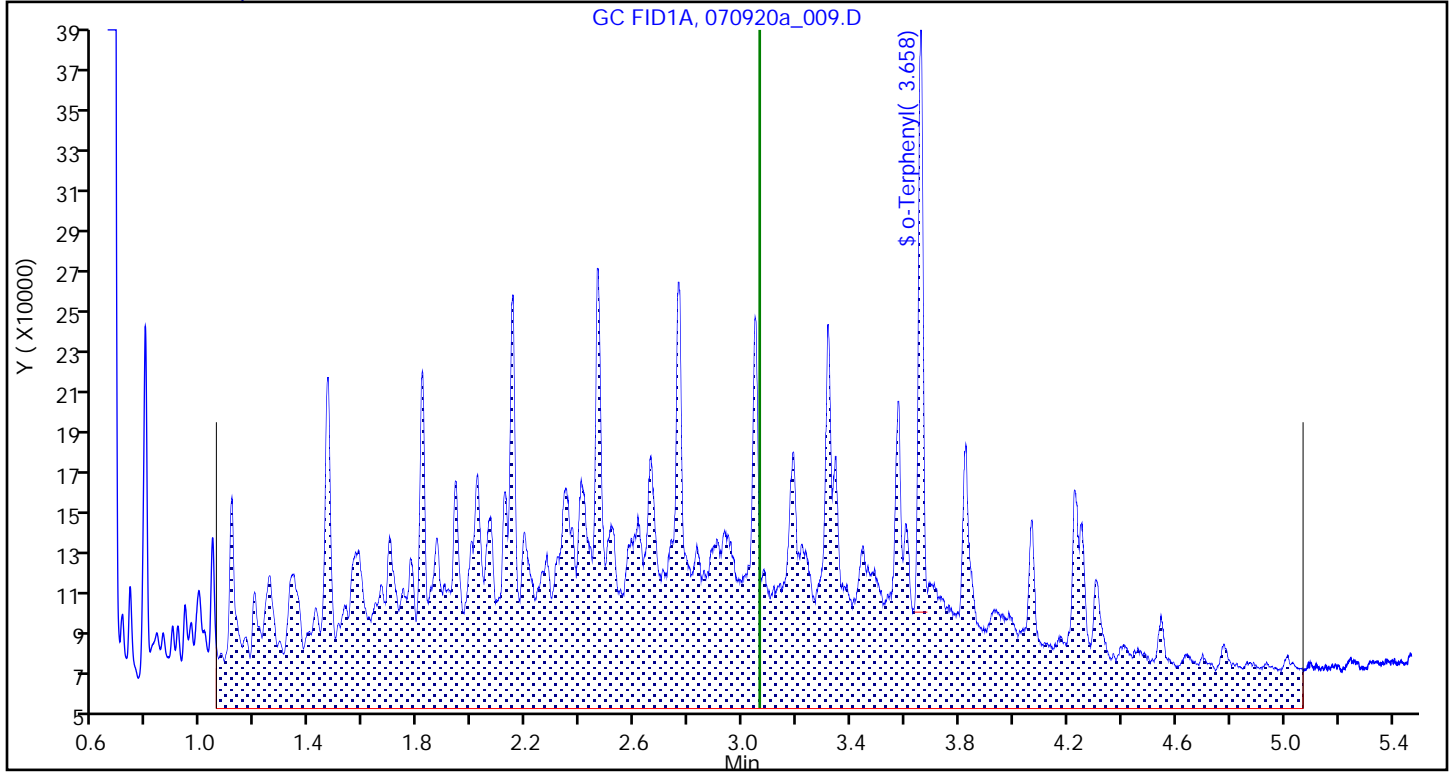
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_009.D

Injection Date: 09-Jul-2020 12:29:27

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 97

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

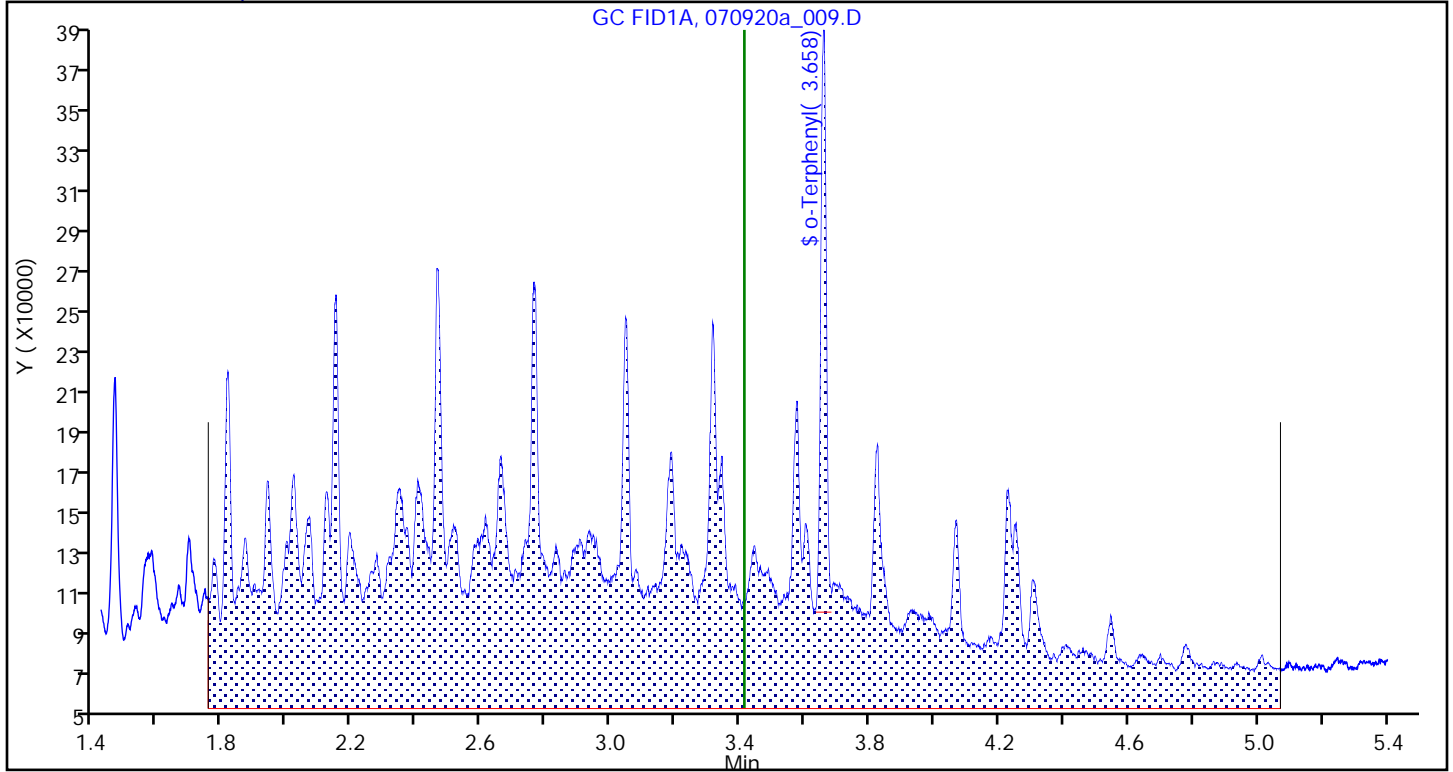
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 9 C12-C24, CAS: STL00096**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_009.D

Injection Date: 09-Jul-2020 12:29:27

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 97

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

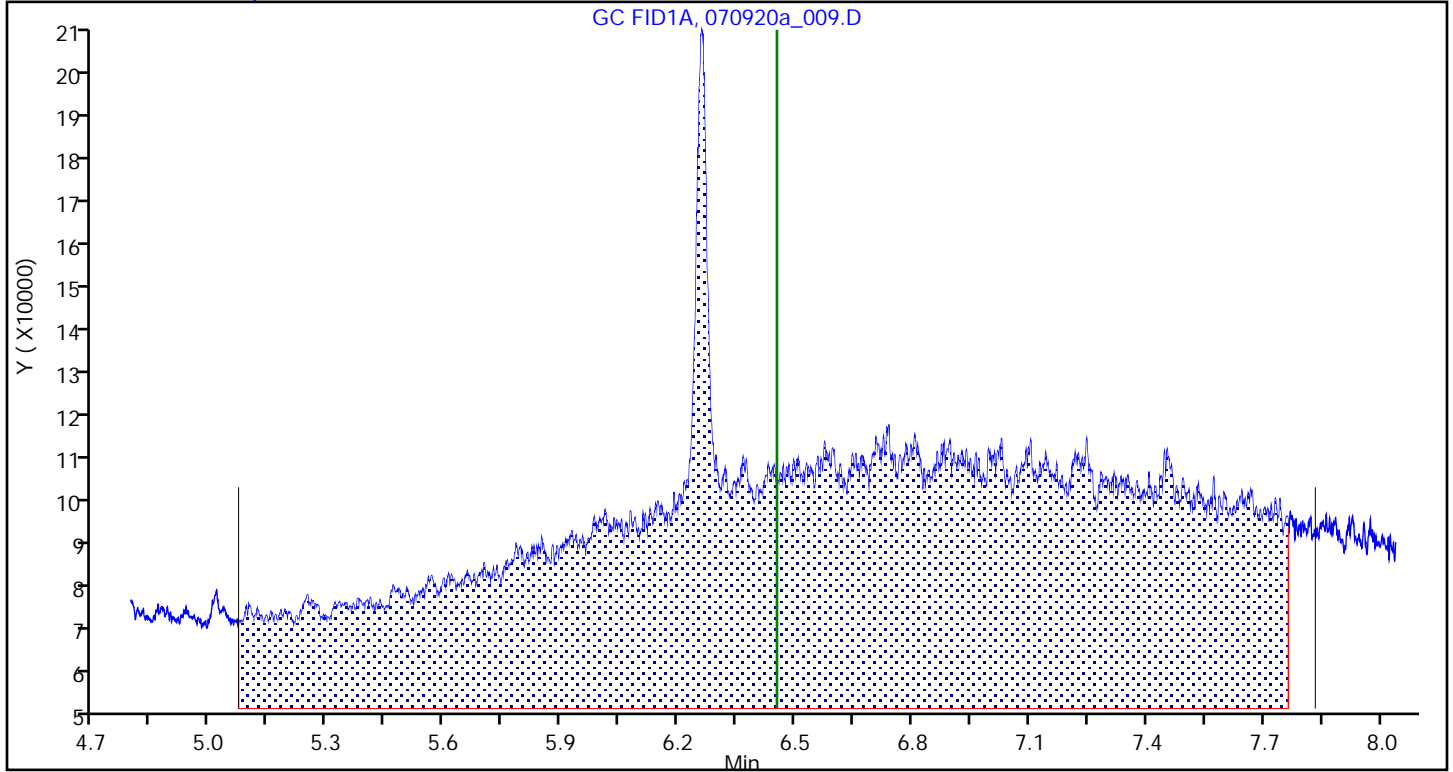
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_009.D

Injection Date: 09-Jul-2020 12:29:27

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 97

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

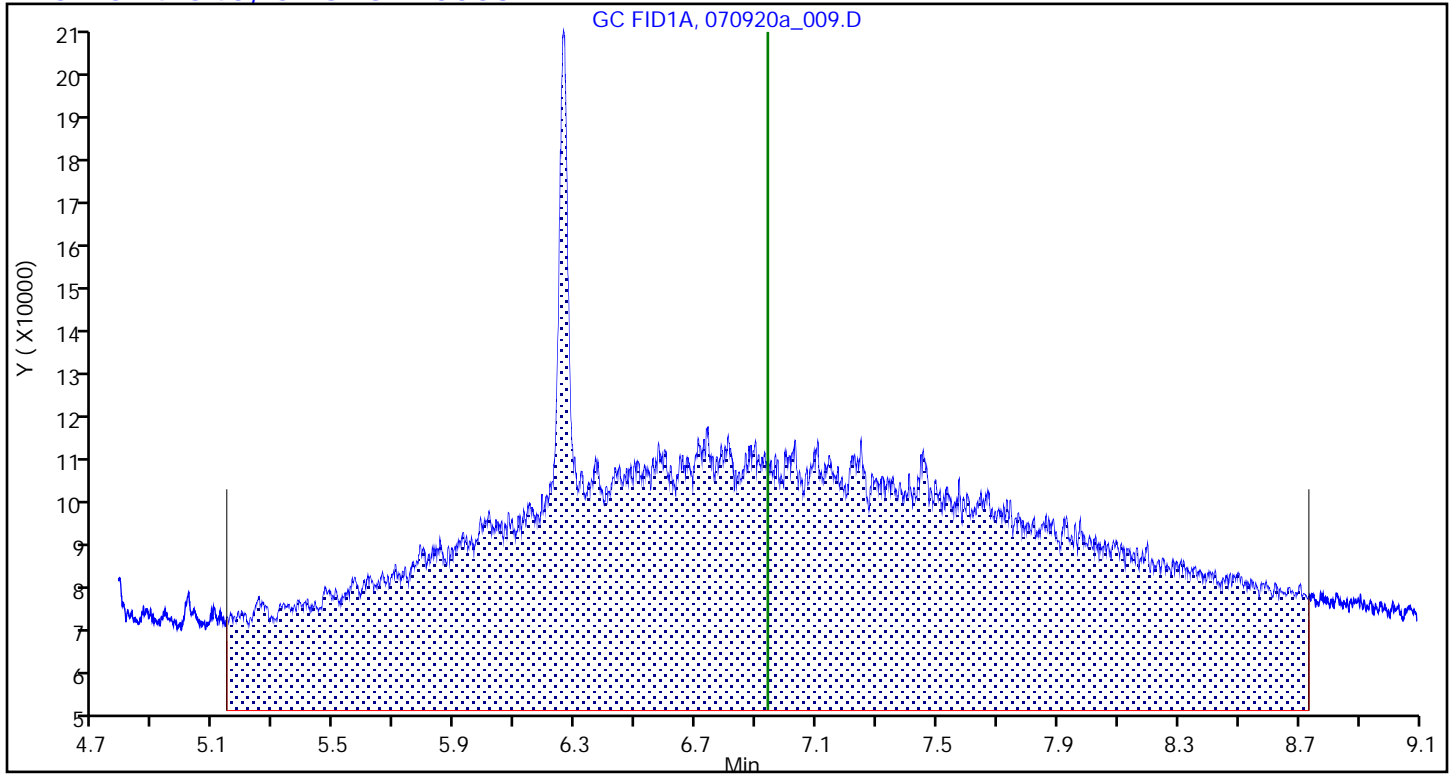
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**





Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_010.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 09-Jul-2020 12:49:28 ALS Bottle#: 98 Worklist Smp#: 10  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 50  
 Operator ID: jcm Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 10-Jul-2020 06:34:49 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1016

First Level Reviewer: mohammedjc Date: 09-Jul-2020 15:15:16

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	3.062	(1.053-5.071)		7335239	50.0	51.9	
A 55 C9-C25	3.069	(0.830-5.307)		7773560	NC	NC	
A 35 C10-C25	3.126	(1.053-5.199)		7415241	NC	NC	
A 9 C12-C24	3.413	(1.754-5.071)		6237465	50.0	51.8	
A 25 C10-C28	3.528	(1.053-6.002)		8118072	NC	NC	
\$ 10 o-Terphenyl	3.655	3.660	-0.005	169822	1.03	1.12	
A 14 C24-C32	6.020	(5.071-6.968)		2309472	NC	NC	
\$ 33 n-Triacontane-d62	6.258	6.227	0.031	102021	NC	NC	Ma
A 26 C24-C36	6.418	(5.071-7.834)		3561347	NC	NC	
A 15 Motor Oil	6.418	(5.071-7.834)		3561347	50.0	53.0	
A 32 C25-C36	6.482	(5.199-7.834)		3481346	NC	NC	
A 52 C24-C40	6.938	(5.141-8.734)		4561371	50.0	52.3	
A 30 C28-C40	7.316	(6.002-8.670)		3730638	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

TPH-IC\*\_500\_00011 Amount Added: 0.10 Units: mL  
 MeCl2\_CT\_00183 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_010.D

Injection Date: 09-Jul-2020 12:49:28

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 98

Worklist Smp#: 10

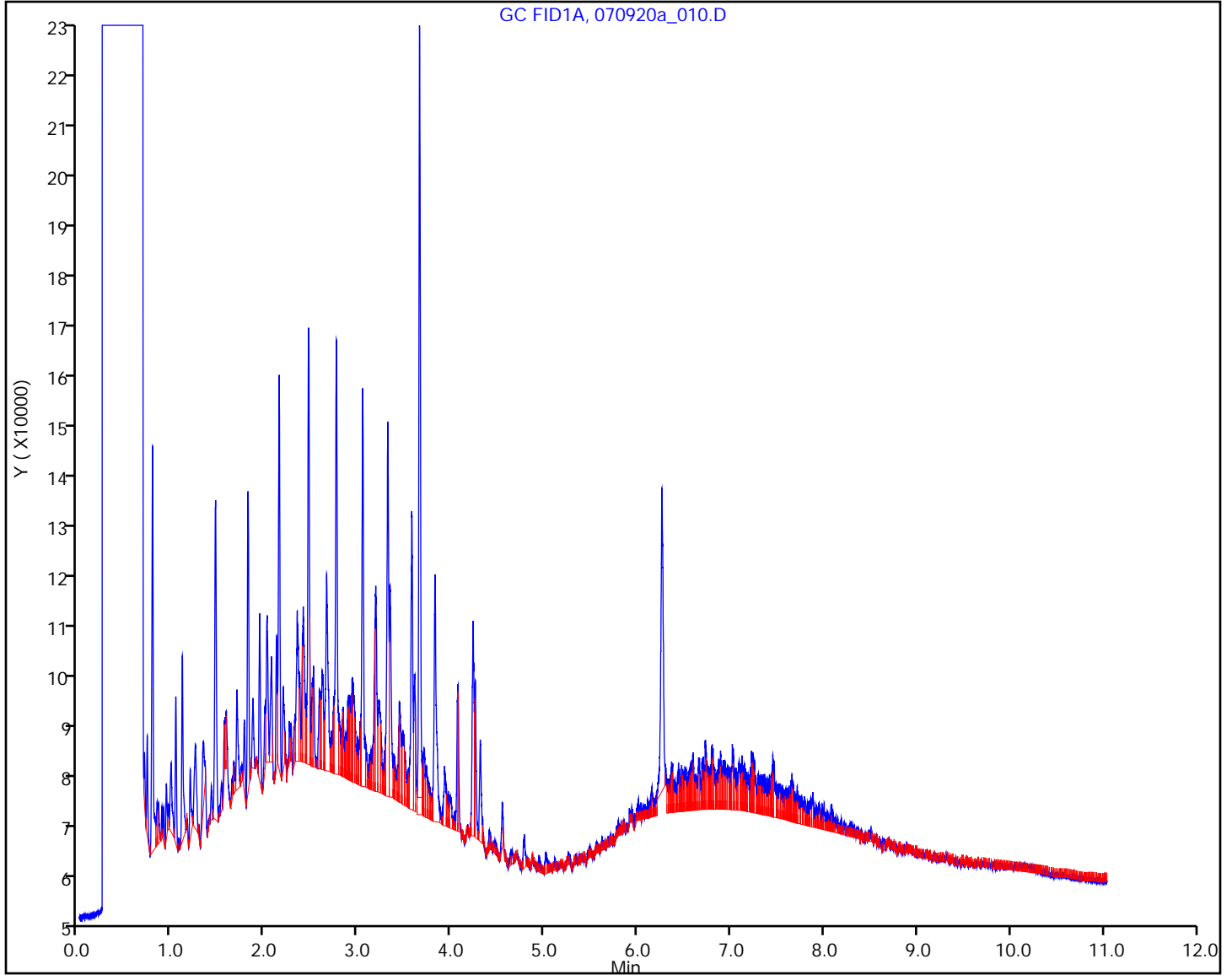
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_010.D

Injection Date: 09-Jul-2020 12:49:28

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 98

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

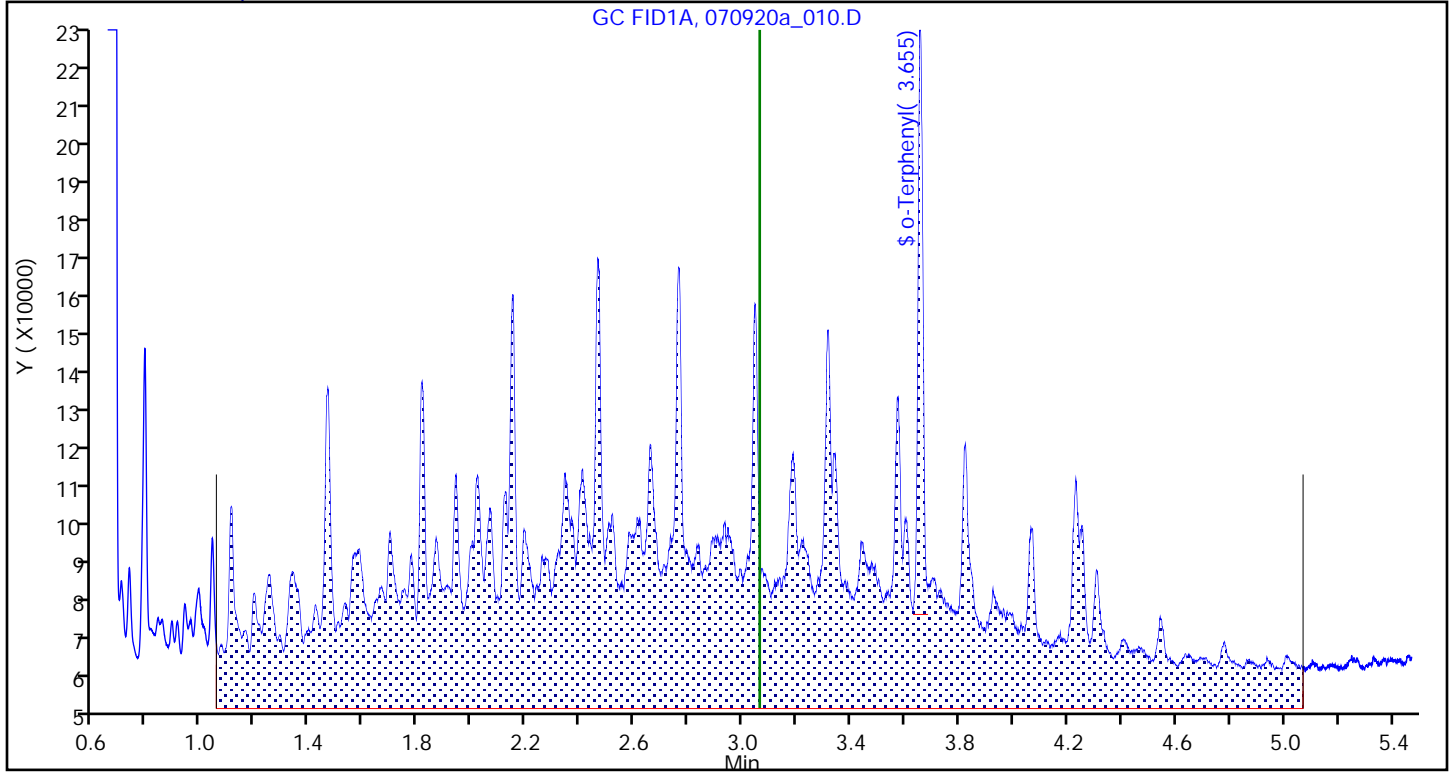
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_010.D

Injection Date: 09-Jul-2020 12:49:28

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 98

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

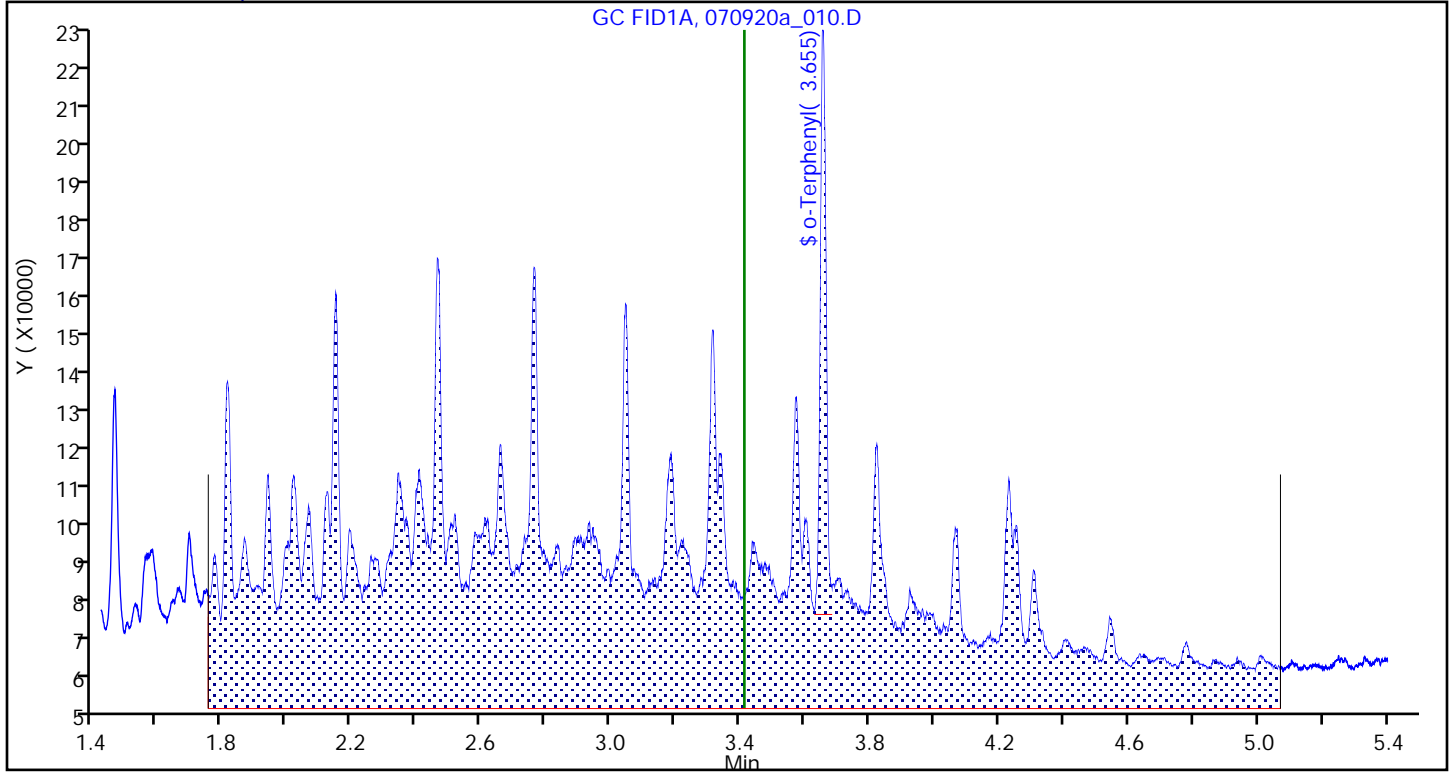
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 9 C12-C24, CAS: STL00096**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_010.D

Injection Date: 09-Jul-2020 12:49:28

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 98

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

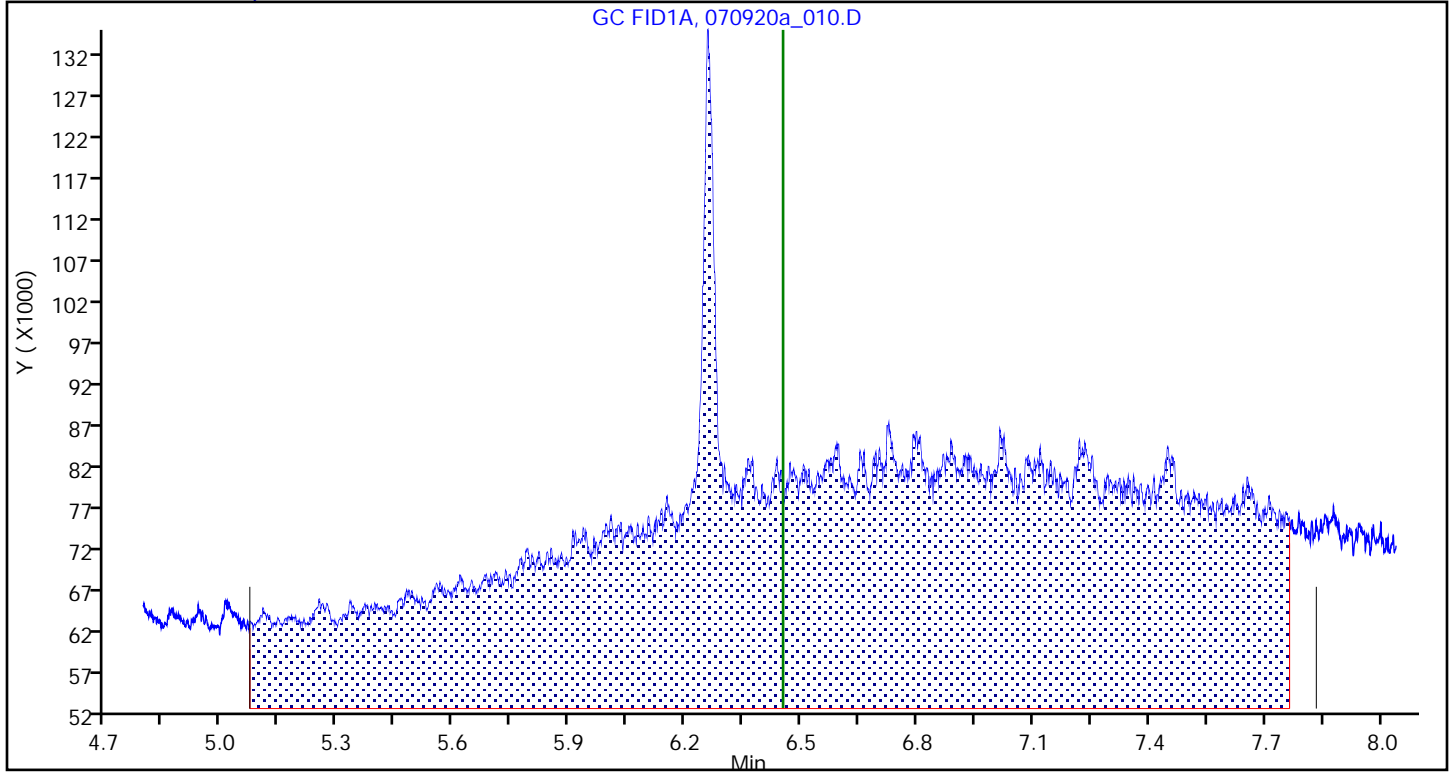
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_010.D

Injection Date: 09-Jul-2020 12:49:28

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 98

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

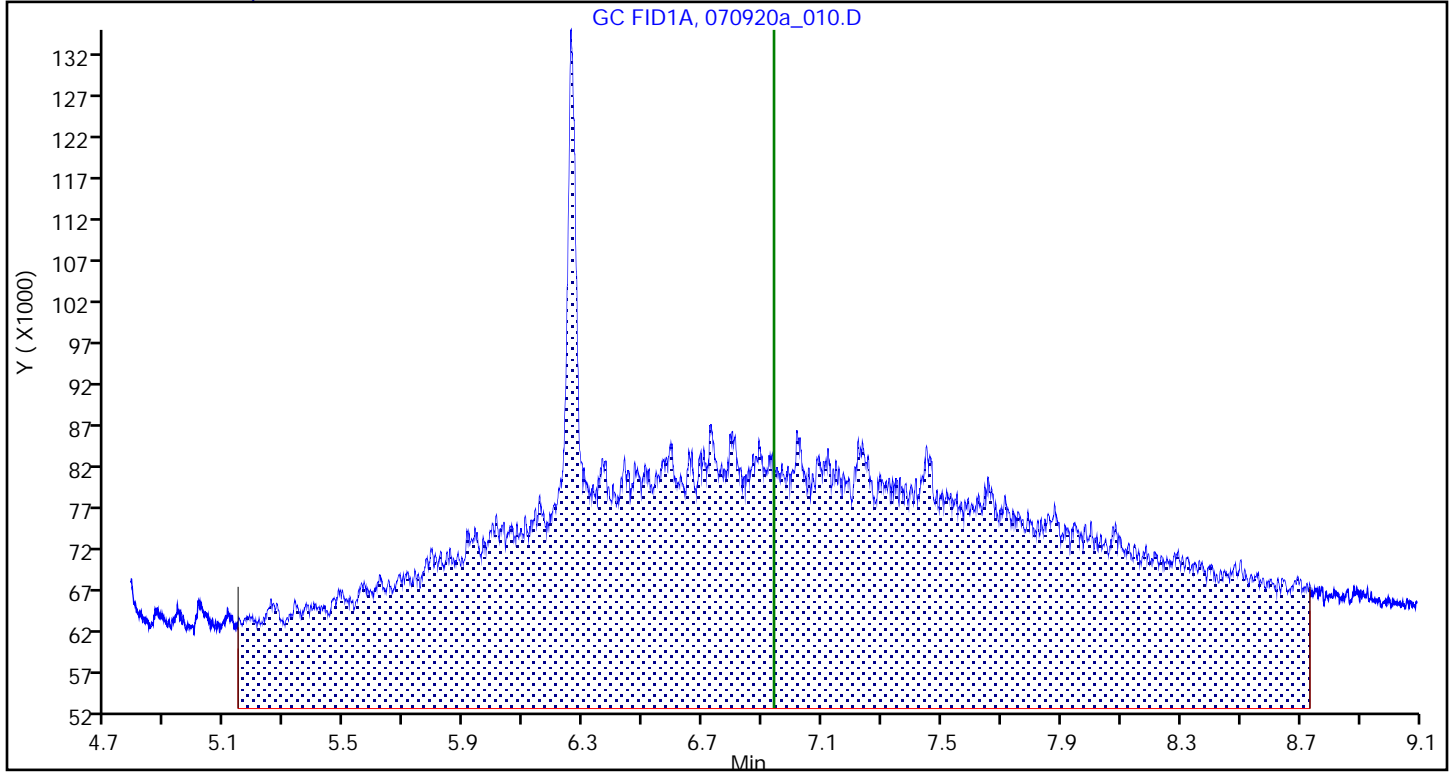
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_011.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 09-Jul-2020 13:09:32 ALS Bottle#: 99 Worklist Smp#: 11  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 20  
 Operator ID: jcm Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 10-Jul-2020 06:34:57 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1016

First Level Reviewer: mohammedjc Date: 09-Jul-2020 15:15:26

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	3.062	(1.053-5.071)		2981754	20.0	20.4	
A 55 C9-C25	3.069	(0.830-5.307)		3176197	NC	NC	
A 35 C10-C25	3.126	(1.053-5.199)		3013784	NC	NC	
A 9 C12-C24	3.413	(1.754-5.071)		2526025	20.0	20.3	
A 25 C10-C28	3.528	(1.053-6.002)		3296980	NC	NC	
\$ 10 o-Terphenyl	3.658	3.660	-0.002	64203	0.4134	0.4247	
A 14 C24-C32	6.020	(5.071-6.968)		948636	NC	NC	
\$ 33 n-Triacontane-d62	6.257	6.227	0.030	37100	NC	NC	Ma
A 15 Motor Oil	6.418	(5.071-7.834)		1475642	20.0	21.1	
A 26 C24-C36	6.418	(5.071-7.834)		1475642	NC	NC	
A 32 C25-C36	6.482	(5.199-7.834)		1443612	NC	NC	
A 52 C24-C40	6.938	(5.141-8.734)		1928499	20.0	21.1	
A 30 C28-C40	7.316	(6.002-8.670)		1586005	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

TPH-IC\*\_500\_00011 Amount Added: 40.00 Units: uL  
 MeCl2\_CT\_00183 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_011.D

Injection Date: 09-Jul-2020 13:09:32

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 99

Worklist Smp#: 11

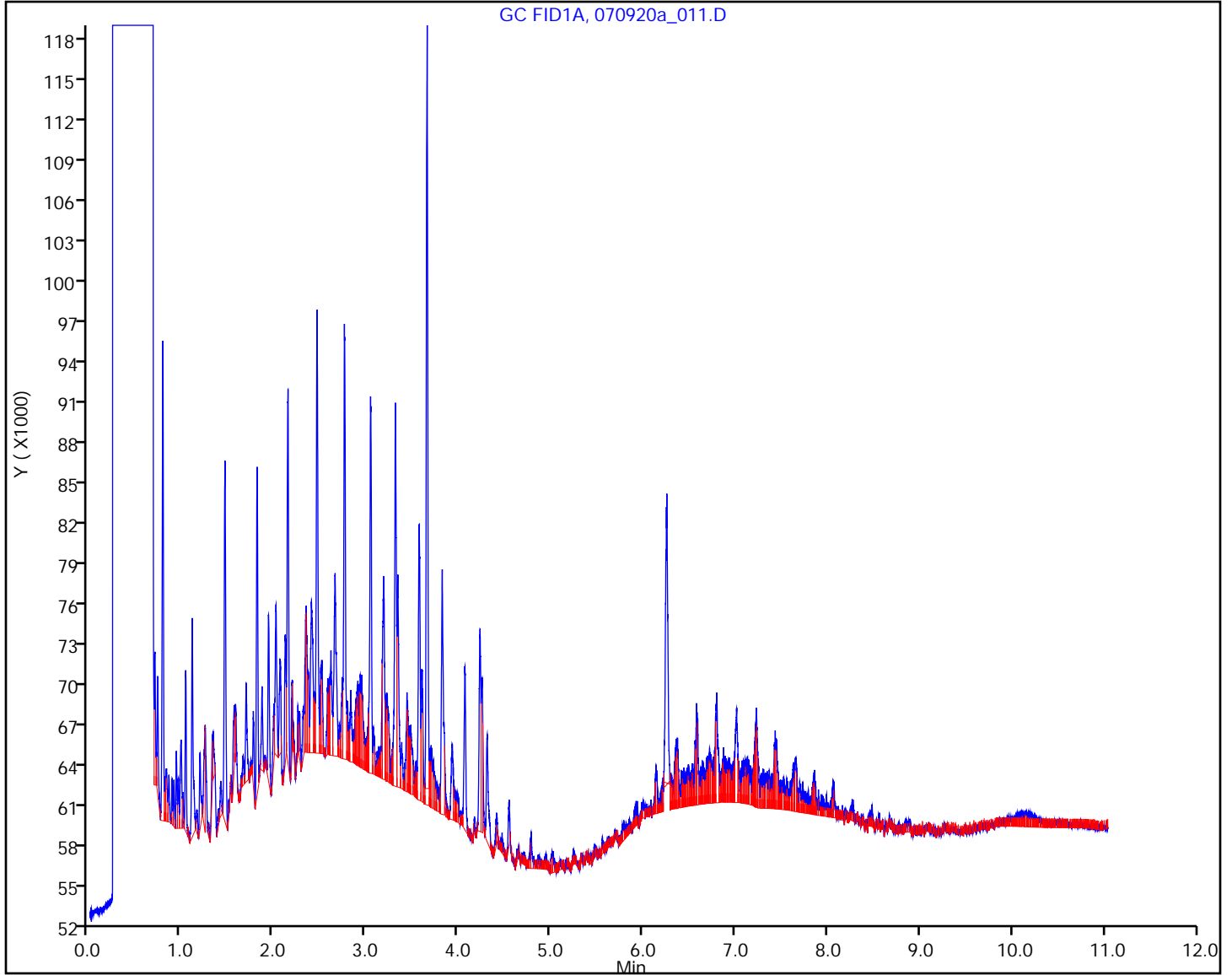
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_011.D

Injection Date: 09-Jul-2020 13:09:32

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 99

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

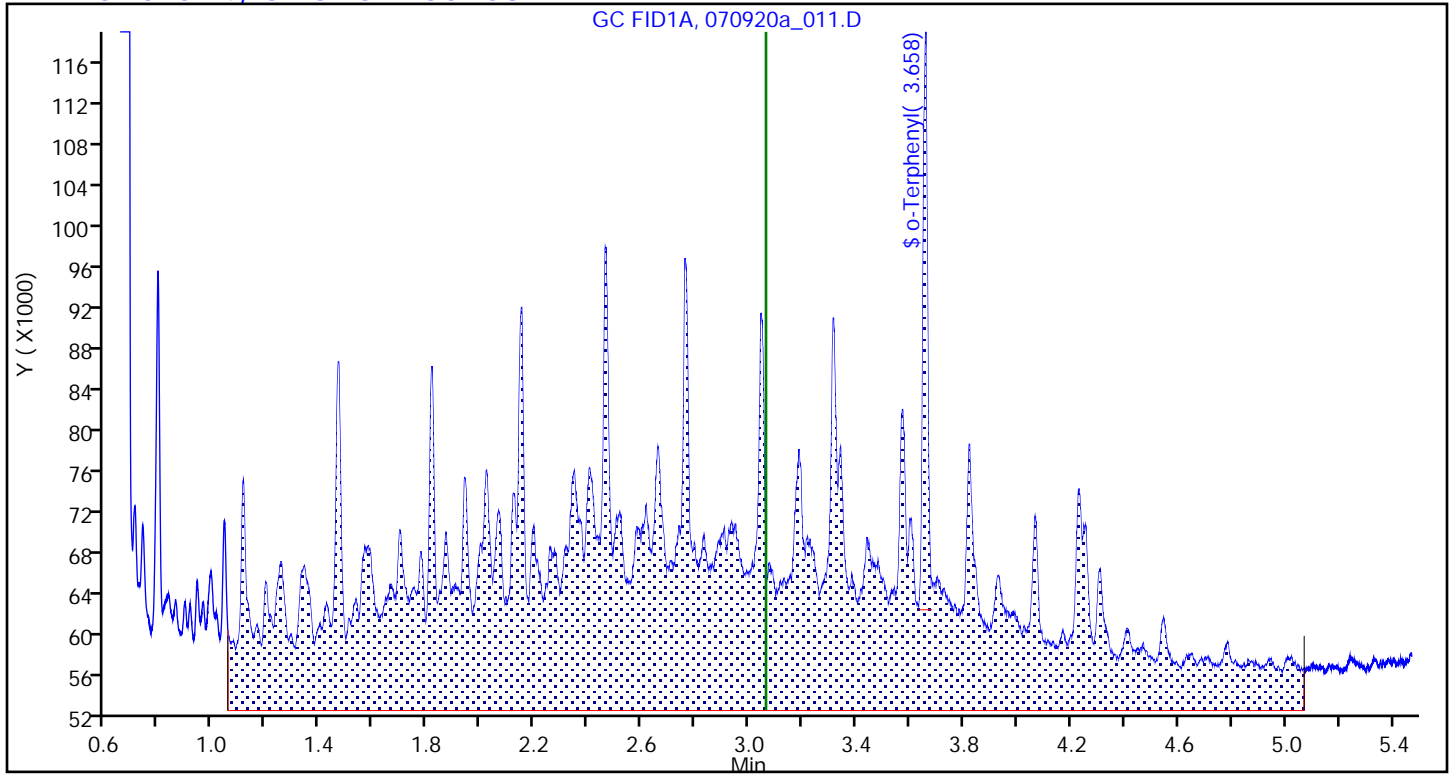
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_011.D

Injection Date: 09-Jul-2020 13:09:32

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 99

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

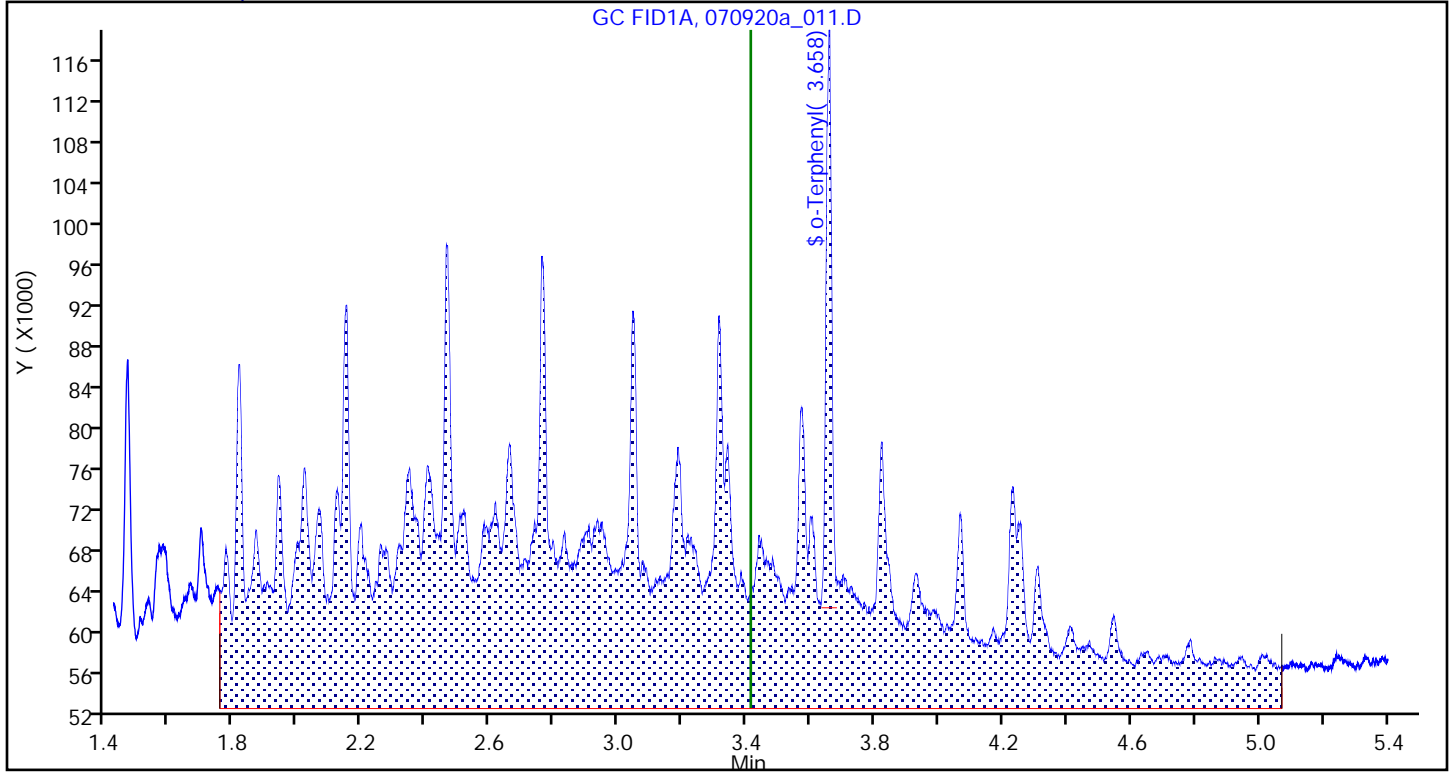
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 9 C12-C24, CAS: STL00096**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_011.D

Injection Date: 09-Jul-2020 13:09:32

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 99

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

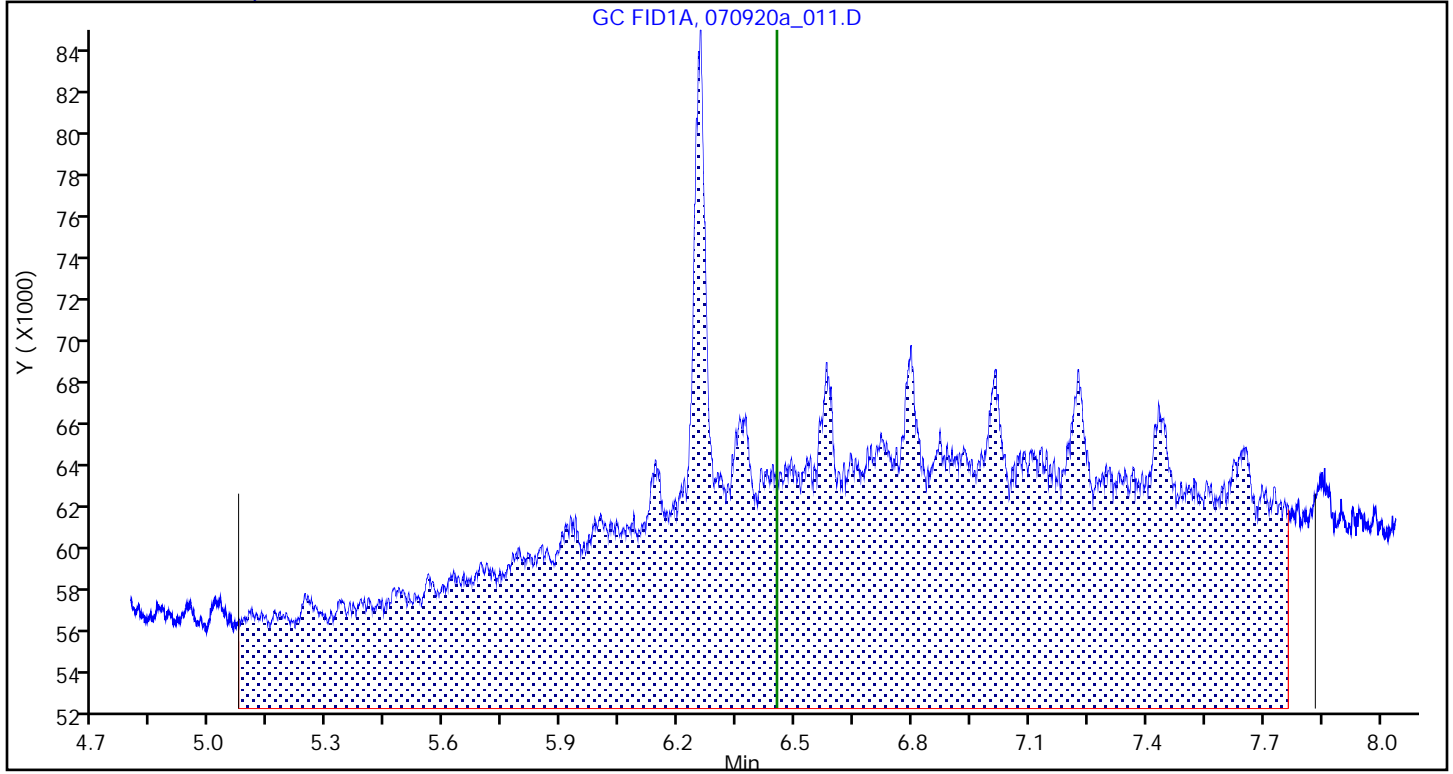
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_011.D

Injection Date: 09-Jul-2020 13:09:32

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 99

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

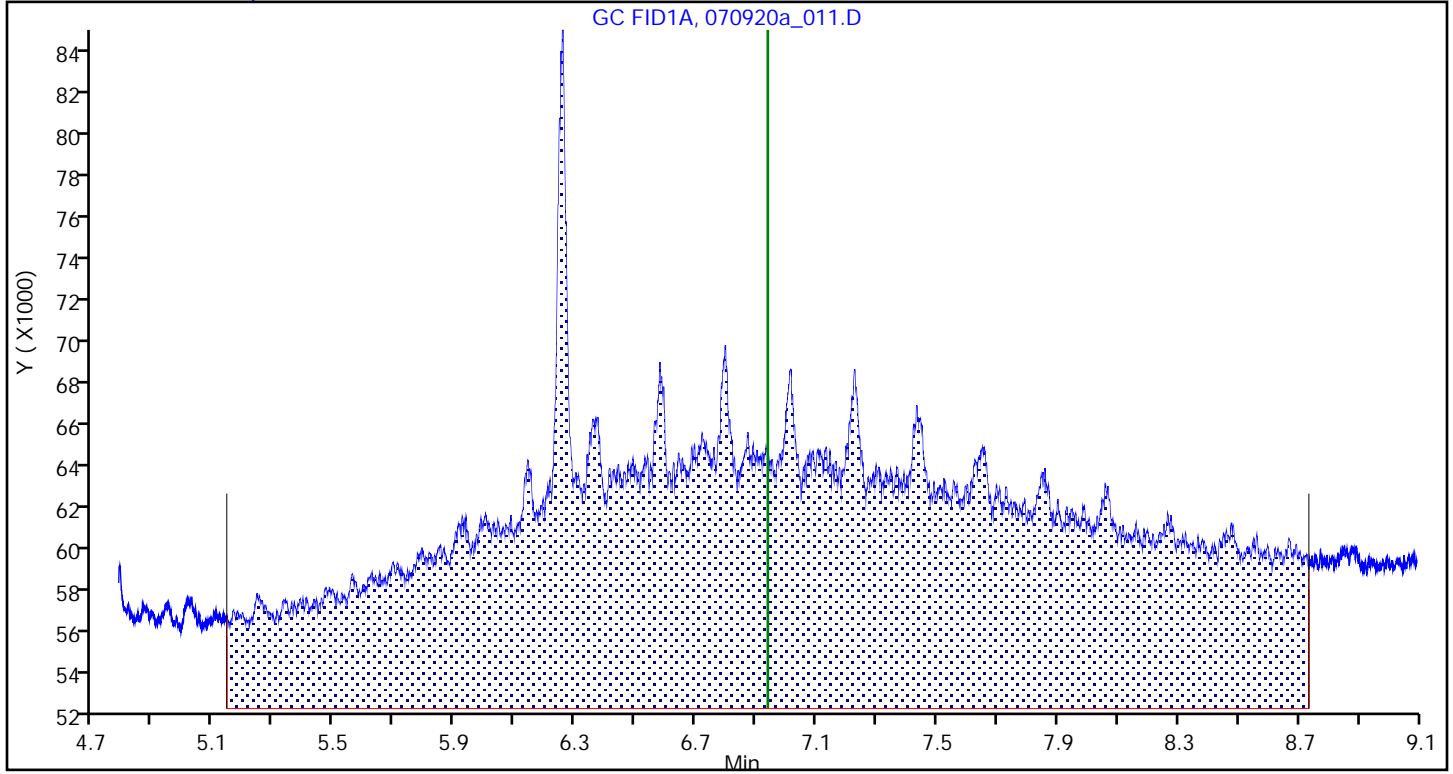
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**



Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 10  
 Inject. Date: 09-Jul-2020 13:29:41 ALS Bottle#: 100 Worklist Smp#: 12  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 10  
 Operator ID: jcm Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 10-Jul-2020 06:35:05 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1016

First Level Reviewer: mohammedjc Date: 09-Jul-2020 15:15:35

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	3.062	(1.053-5.071)		1514320	10.0	9.79	
A 55 C9-C25	3.069	(0.830-5.307)		1622692	NC	NC	
A 35 C10-C25	3.126	(1.053-5.199)		1529263	NC	NC	
A 9 C12-C24	3.413	(1.754-5.071)		1290331	10.0	9.82	
A 25 C10-C28	3.528	(1.053-6.002)		1660539	NC	NC	
\$ 10 o-Terphenyl	3.656	3.660	-0.004	32798	0.2067	0.2170	
A 14 C24-C32	6.020	(5.071-6.968)		451852	NC	NC	
\$ 33 n-Triacontane-d62	6.266	6.227	0.039	18688	NC	NC	Ma
A 26 C24-C36	6.418	(5.071-7.834)		718113	NC	NC	
A 15 Motor Oil	6.418	(5.071-7.834)		718113	10.0	9.56	
A 32 C25-C36	6.482	(5.199-7.834)		703170	NC	NC	
A 52 C24-C40	6.938	(5.141-8.734)		964668	10.0	9.63	
A 30 C28-C40	7.316	(6.002-8.670)		801383	NC	NC	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

TPH-IC\*\_500\_00011 Amount Added: 20.00 Units: uL  
 MeCl2\_CT\_00183 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D

Injection Date: 09-Jul-2020 13:29:41

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 100

Worklist Smp#: 12

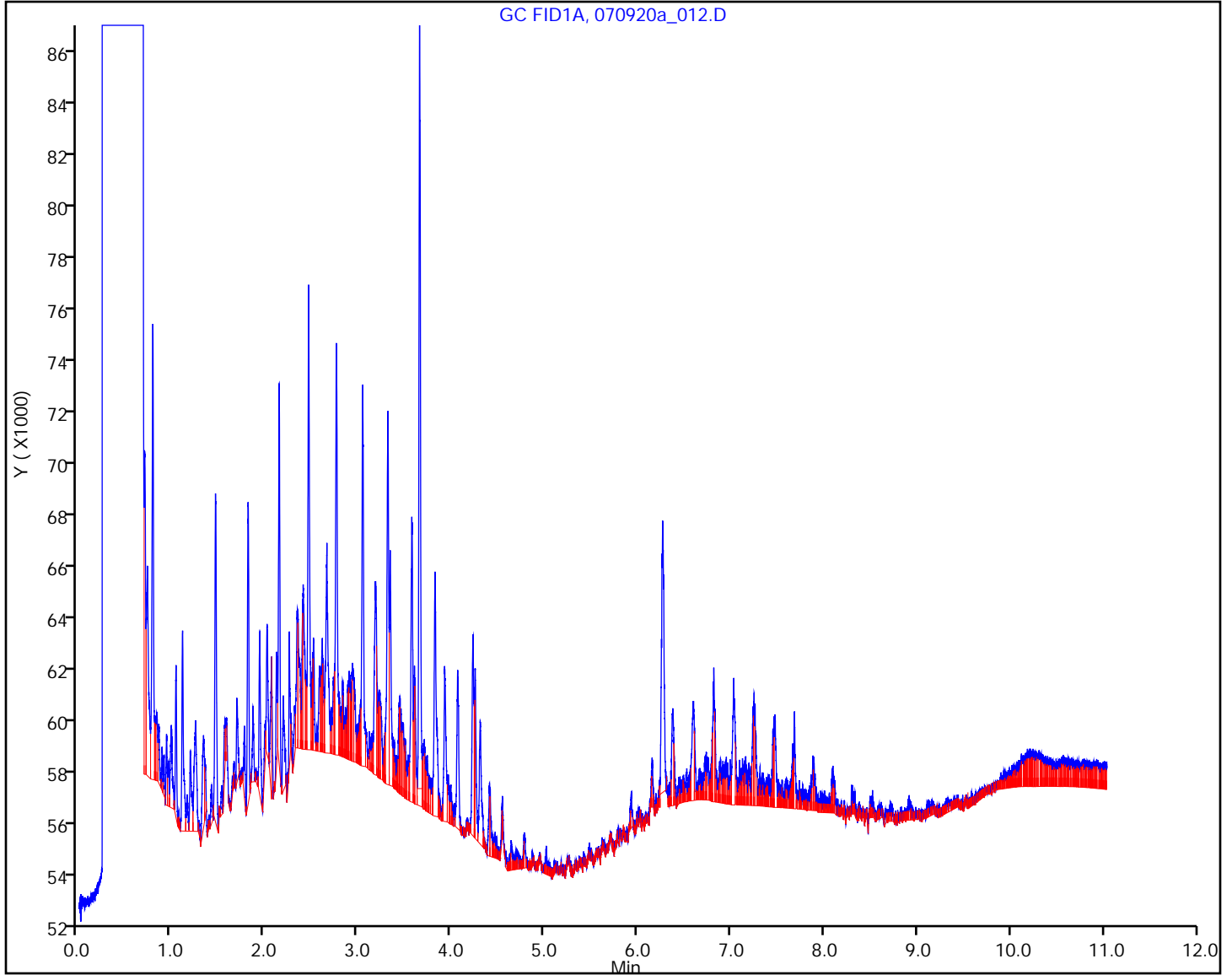
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D

Injection Date: 09-Jul-2020 13:29:41

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 100 Worklist Smp#: 12

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

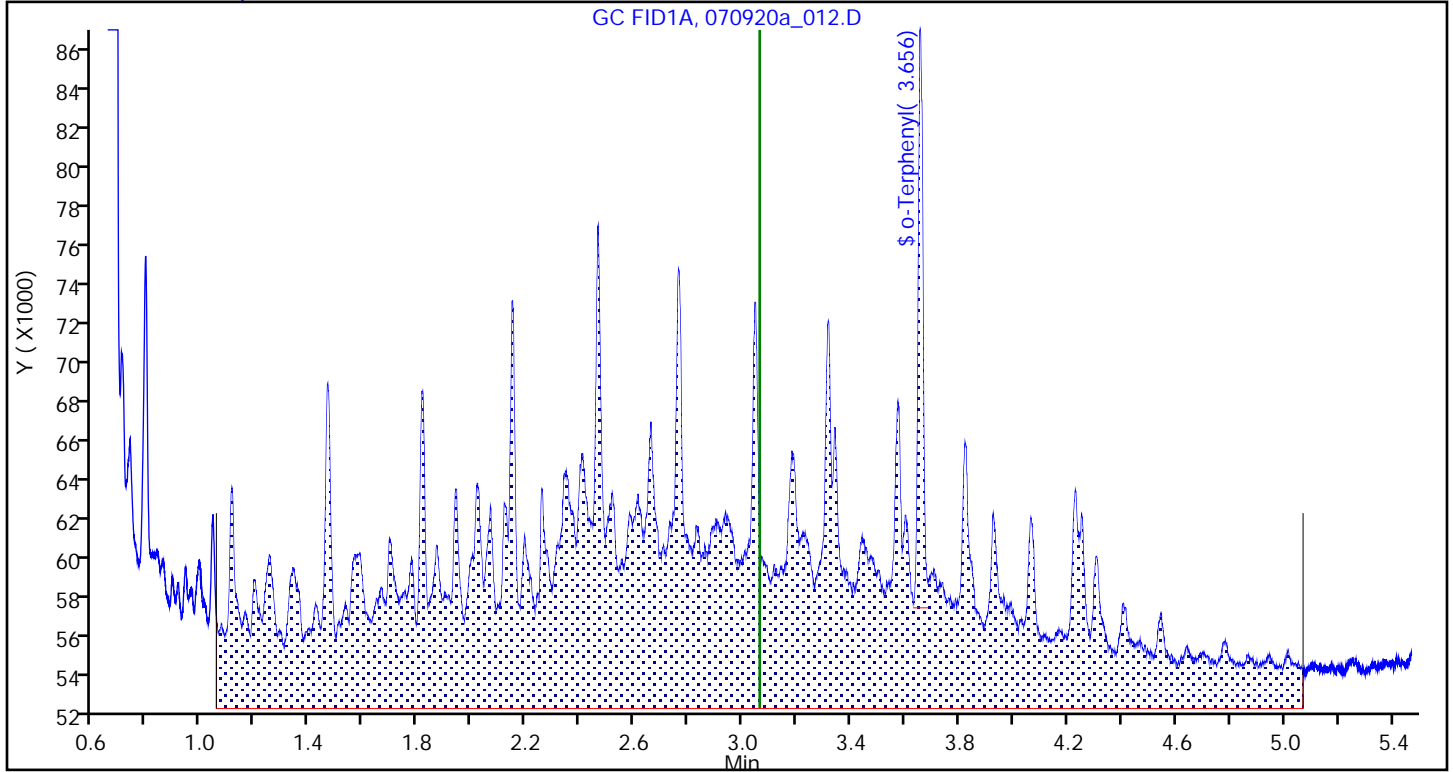
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D

Injection Date: 09-Jul-2020 13:29:41

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 100

Worklist Smp#: 12

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

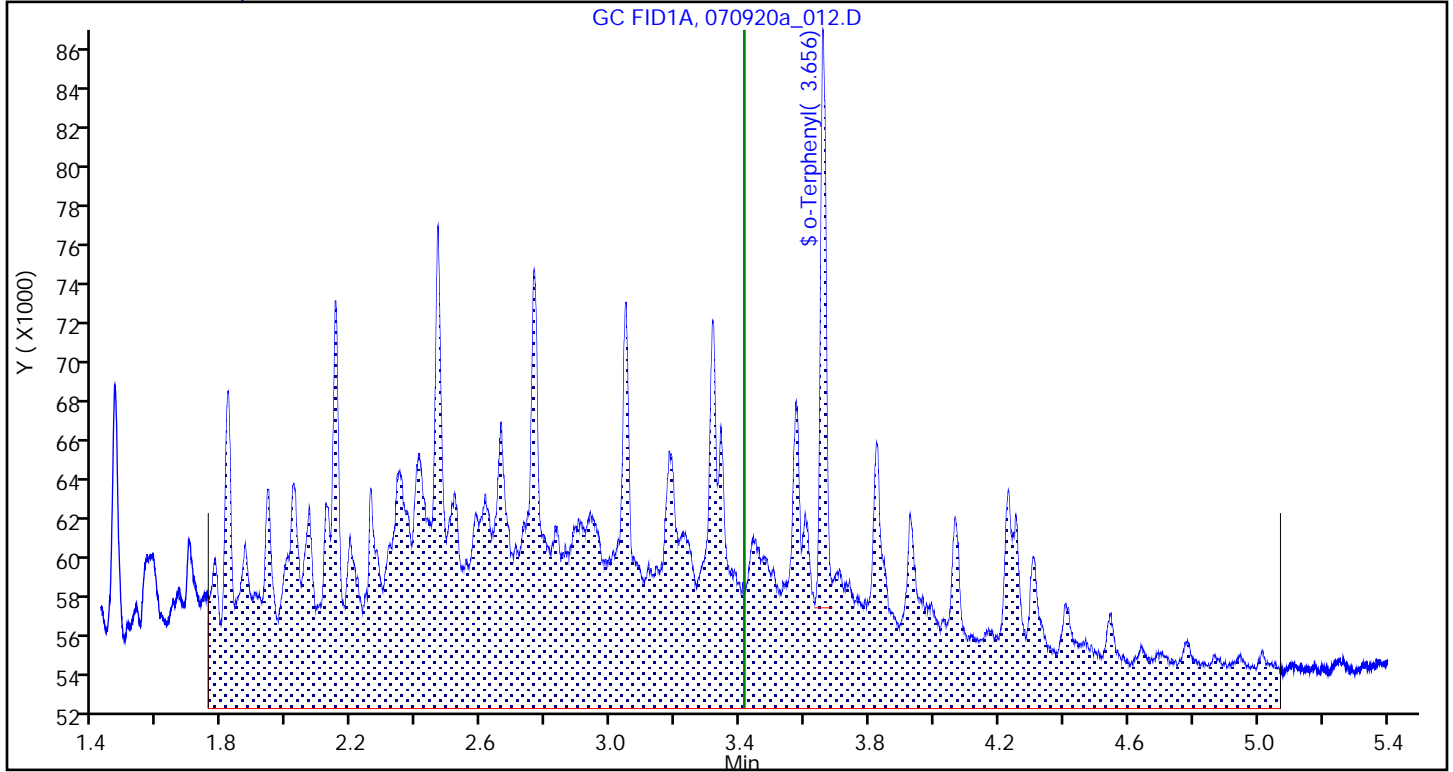
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 9 C12-C24, CAS: STL00096**





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D

Injection Date: 09-Jul-2020 13:29:41

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 100

Worklist Smp#: 12

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

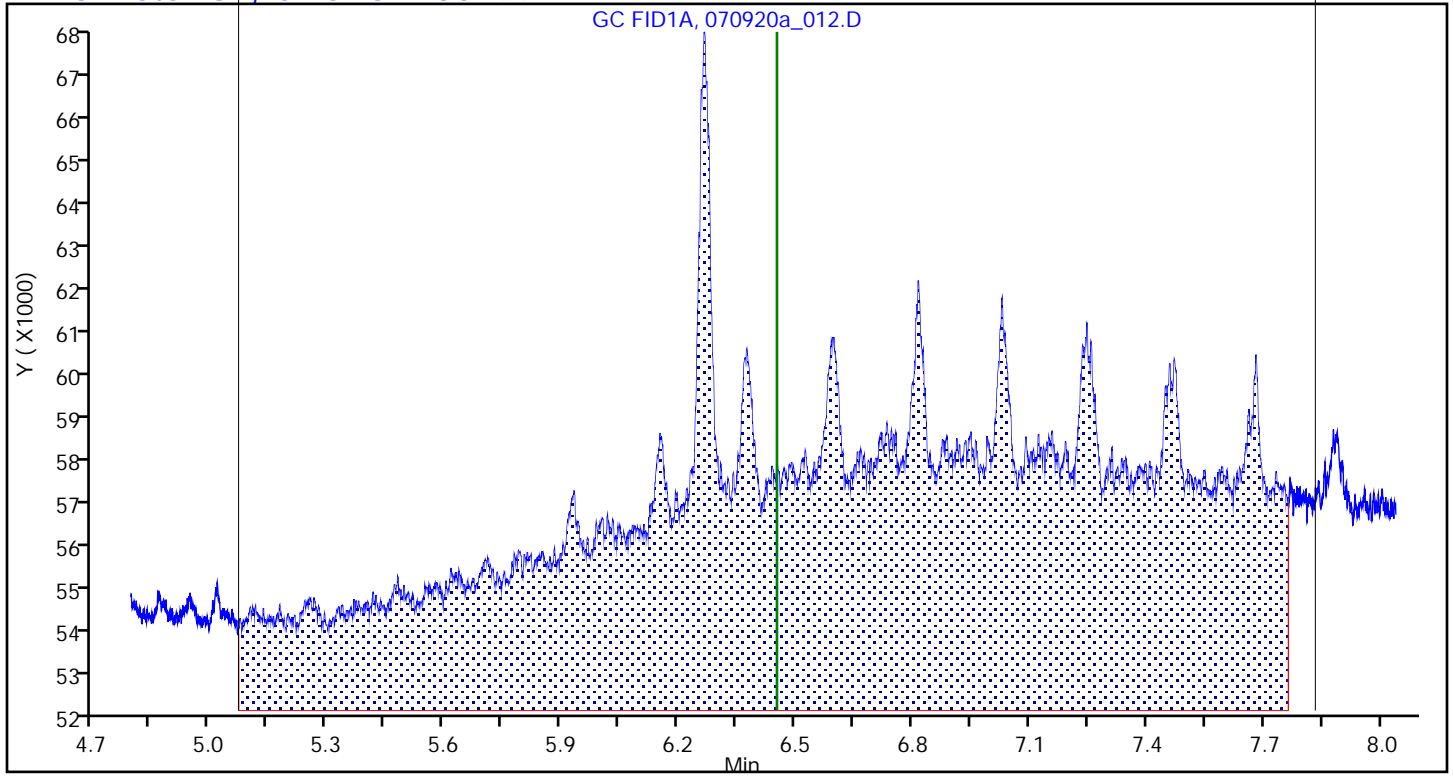
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D

Injection Date: 09-Jul-2020 13:29:41

Instrument ID: TAC013

Lims ID: IC

Client ID:

Operator ID: jcm

ALS Bottle#: 100

Worklist Smp#: 12

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

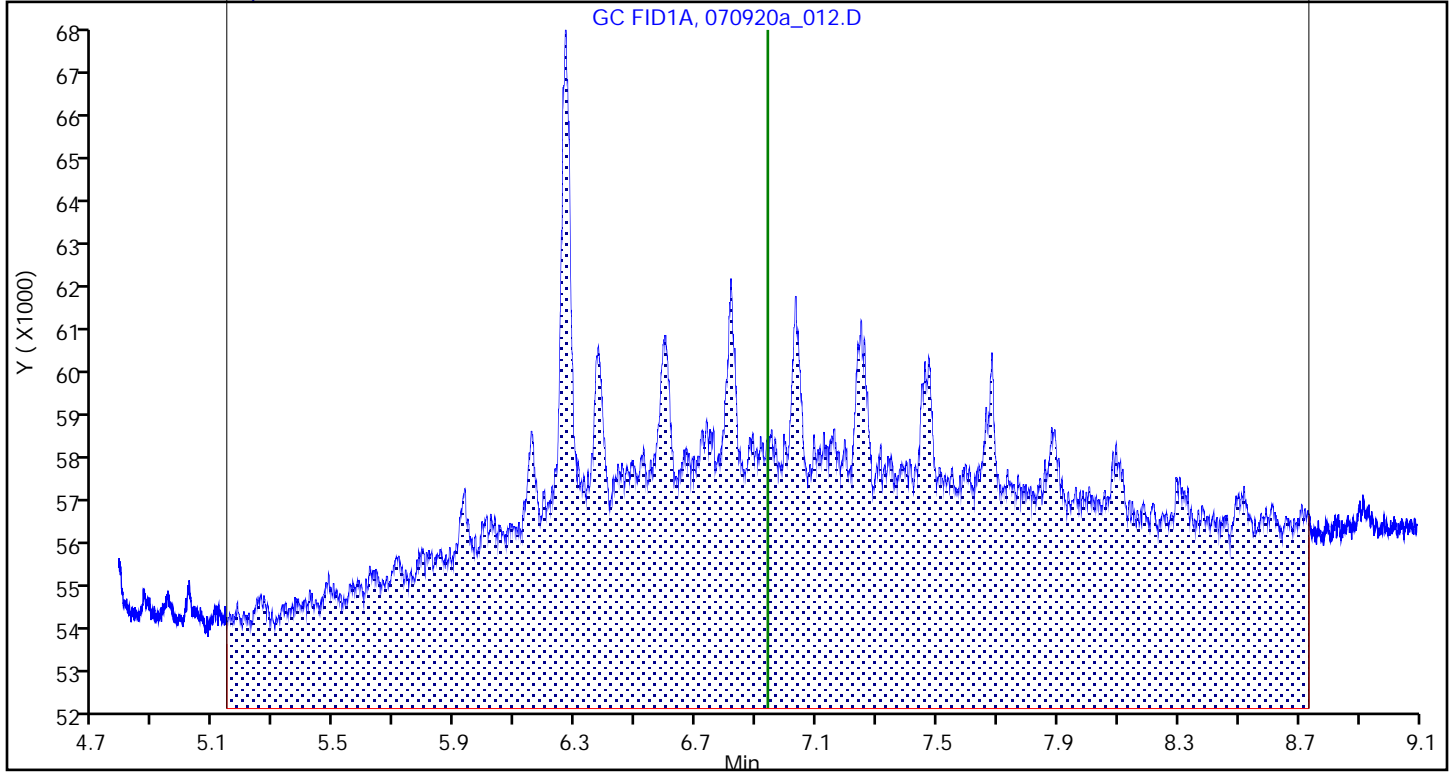
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

A 52 C24-C40, CAS: STL00631



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_003.D

Injection Date: 14-Oct-2020 08:06:02

Instrument ID: TAC013

Lims ID: RTC

Client ID:

Operator ID: adb

ALS Bottle#: 2

Worklist Smp#: 2

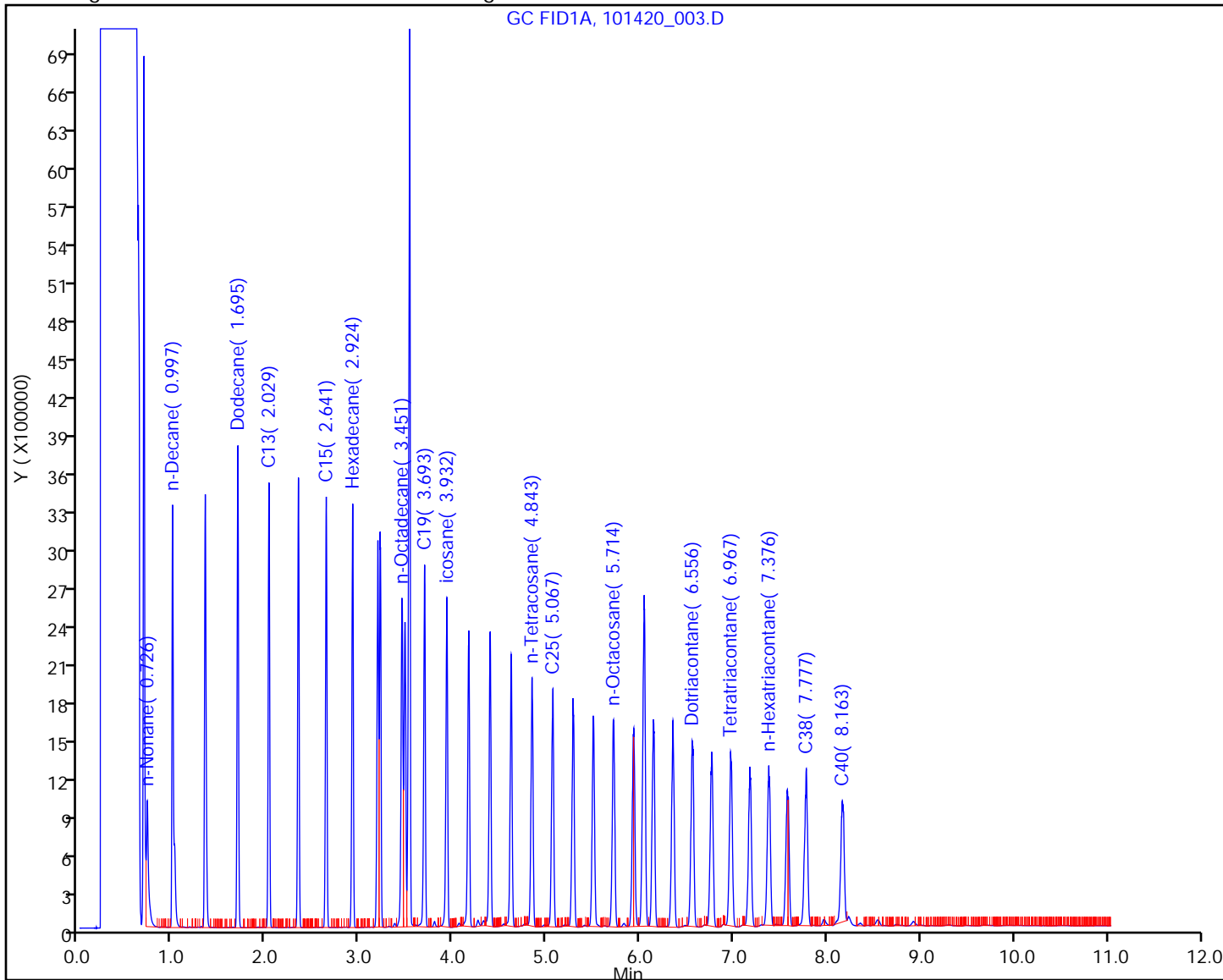
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-332639/13 Calibration Date: 07/09/2020 13:49  
 Instrument ID: TAC013 Calib Start Date: 07/09/2020 10:29  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/09/2020 13:29  
 Lab File ID: 070920a\_013.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
#2 Diesel (C10-C24)	Lin2		143173		516	500	3.3	15.0
#2 Diesel (>C12-C24)	Lin2		121794		516	500	3.2	15.0
Motor Oil (>C24-C36)	Lin2		59974		457	500	-8.7	15.0
Motor Oil Range Organics (C24-C40)	Lin2		76916		455	500	-9.0	15.0
o-Terphenyl	Ave	151176	156468		20.8	20.1	3.5	15.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 580-332639/13 Calibration Date: 07/09/2020 13:49  
 Instrument ID: TAC013 Calib Start Date: 07/09/2020 10:29  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/09/2020 13:29  
 Lab File ID: 070920a\_013.D

Analyte	RT	RT WINDOW	
		FROM	TO
#2 Diesel (C10-C24)	3.06	1.05	5.07
#2 Diesel (>C12-C24)	3.41	1.75	5.07
Motor Oil (>C24-C36)	6.42	5.07	7.83
Motor Oil Range Organics (C24-C40)	6.94	5.14	8.73
o-Terphenyl	3.66	3.63	3.69

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_013.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 09-Jul-2020 13:49:50 ALS Bottle#: 3 Worklist Smp#: 13  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV  
 Operator ID: jcm Instrument ID: TAC013  
 Sublist:

Method: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 10-Jul-2020 07:05:38 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D

Column 1 : Det: GC FID1A  
 Process Host: CTX1016

First Level Reviewer: mohammedjc Date: 09-Jul-2020 15:16:04

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	3.062	(1.053-5.071)		71586662	500.0	516.4	
A 35 C10-C25	3.126	(1.053-5.199)		72210536	NC	NC	
A 9 C12-C24	3.413	(1.754-5.071)		60896827	500.0	516.0	
A 25 C10-C28	3.528	(1.053-6.002)		77583342	NC	NC	
\$ 10 o-Terphenyl	3.662	3.660	0.002	3151882	20.1	20.8	
A 14 C24-C32	6.020	(5.071-6.968)		19527767	NC	NC	
\$ 33 n-Triacontane-d62	6.281	6.227	0.054	2016669	NC	NC	Ma
A 15 Motor Oil	6.418	(5.071-7.834)		29987225	500.0	456.7	
A 26 C24-C36	6.418	(5.071-7.834)		29987225	NC	NC	
A 32 C25-C36	6.482	(5.199-7.834)		29363351	NC	NC	
A 52 C24-C40	6.938	(5.141-8.734)		38458191	500.0	454.9	
A 30 C28-C40	7.316	(6.002-8.670)		31987658	NC	NC	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

TPH-IC\_10000\_00076 Amount Added: 0.05 Units: mL  
 MeCl2\_CT\_00183 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_013.D

Injection Date: 09-Jul-2020 13:49:50

Instrument ID: TAC013

Lims ID: ICV

Client ID:

Operator ID: jcm

ALS Bottle#: 3

Worklist Smp#: 13

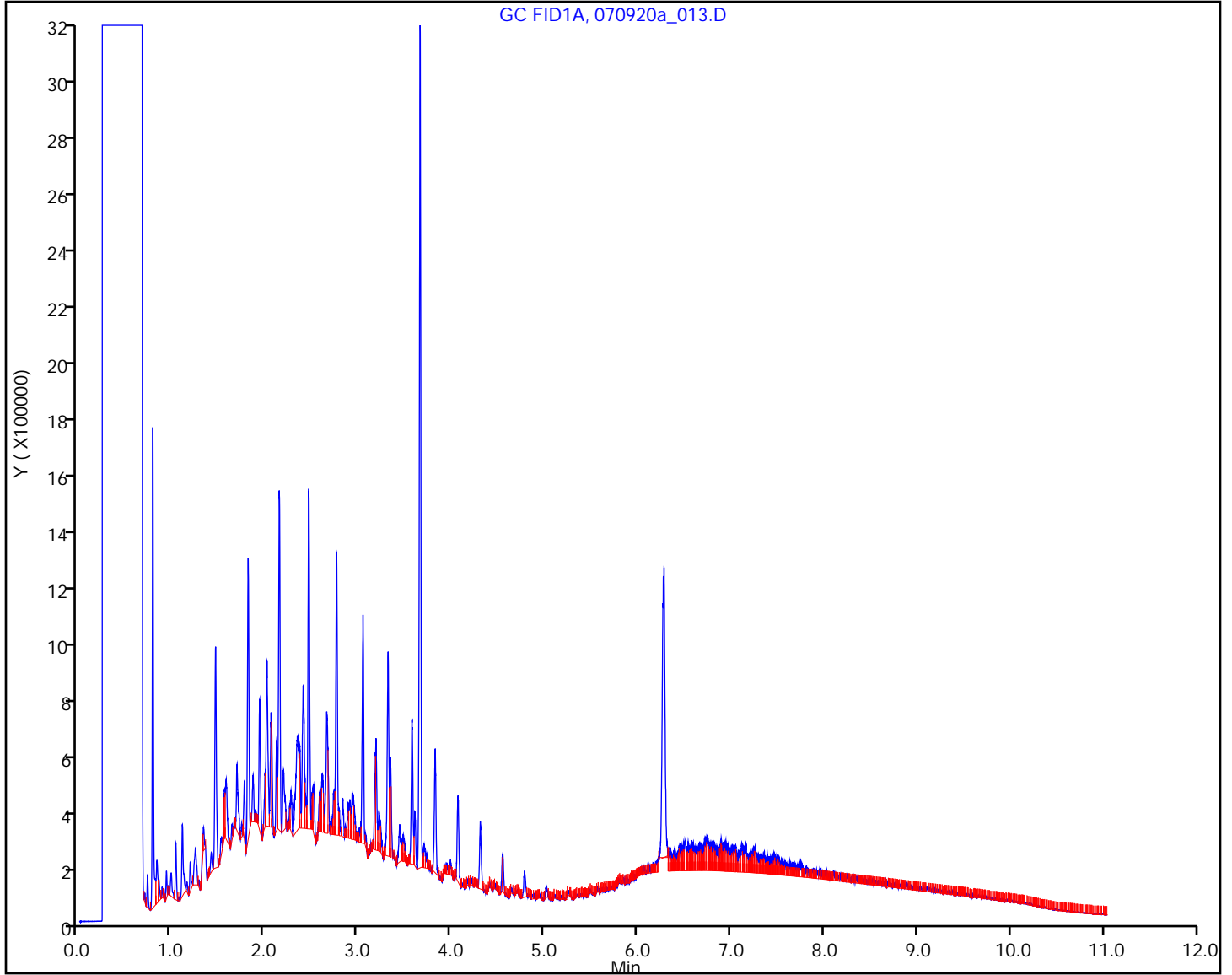
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_013.D

Injection Date: 09-Jul-2020 13:49:50

Instrument ID: TAC013

Lims ID: ICV

Client ID:

Operator ID: jcm

ALS Bottle#: 3

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

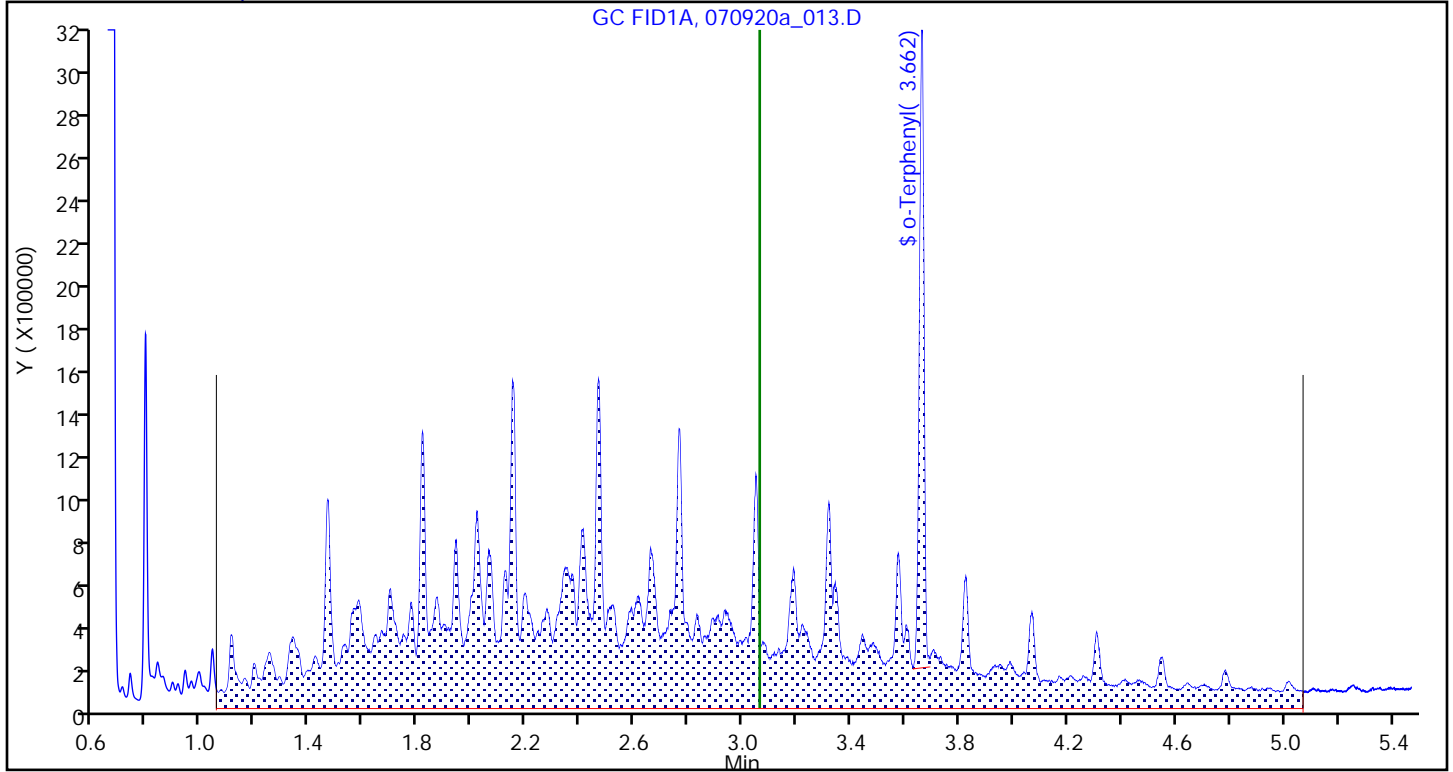
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_013.D

Injection Date: 09-Jul-2020 13:49:50

Instrument ID: TAC013

Lims ID: ICV

Client ID:

Operator ID: jcm

ALS Bottle#: 3

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

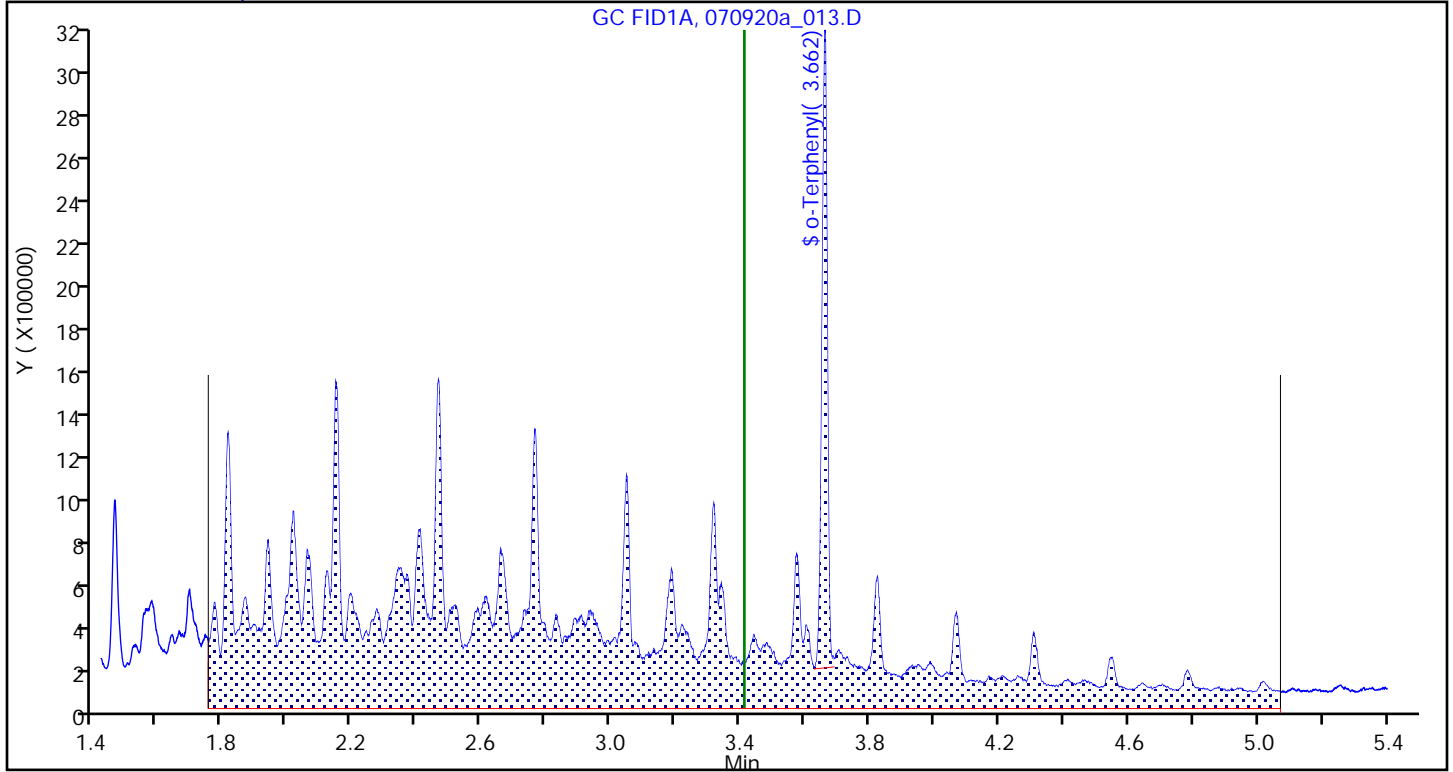
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 9 C12-C24, CAS: STL00096**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_013.D

Injection Date: 09-Jul-2020 13:49:50

Instrument ID: TAC013

Lims ID: ICV

Client ID:

Operator ID: jcm

ALS Bottle#: 3

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

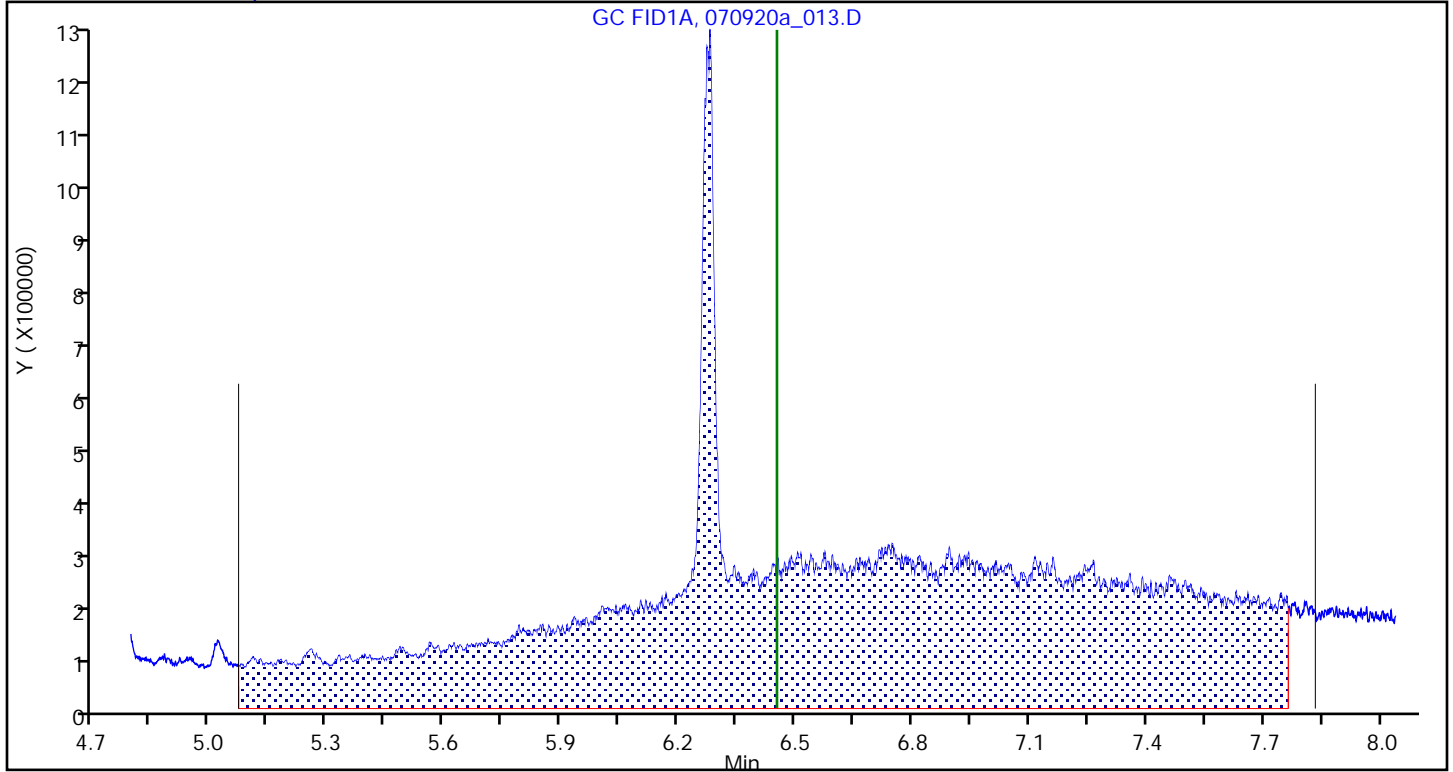
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_013.D

Injection Date: 09-Jul-2020 13:49:50

Instrument ID: TAC013

Lims ID: ICV

Client ID:

Operator ID: jcm

ALS Bottle#: 3

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

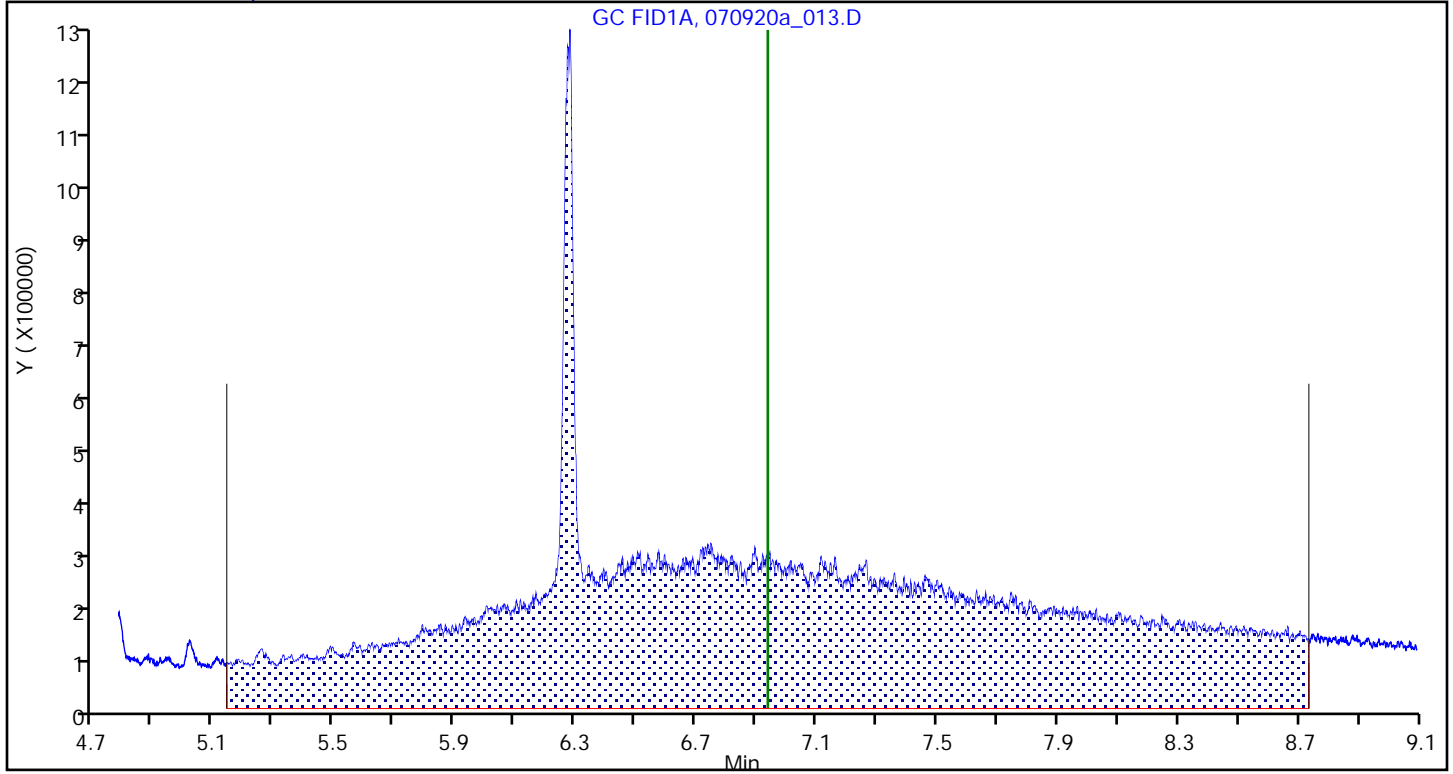
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-340757/3 Calibration Date: 10/14/2020 08:25  
 Instrument ID: TAC013 Calib Start Date: 07/09/2020 10:29  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/09/2020 13:29  
 Lab File ID: 101420\_004.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
#2 Diesel (C10-C24)	Lin2		140782		508	500	1.5	15.0
#2 Diesel (>C12-C24)	Lin2		119702		507	500	1.4	15.0
Motor Oil (>C24-C36)	Lin2		66474		506	500	1.3	15.0
Motor Oil Range Organics (C24-C40)	Lin2		82976		491	500	-1.8	15.0
o-Terphenyl	Ave	151176	143362		9.80	10.3	-5.2	15.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVRT 580-340757/3 Calibration Date: 10/14/2020 08:25  
 Instrument ID: TAC013 Calib Start Date: 07/09/2020 10:29  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/09/2020 13:29  
 Lab File ID: 101420\_004.D

Analyte	RT	RT WINDOW	
		FROM	TO
#2 Diesel (C10-C24)	2.91	0.94	4.87
#2 Diesel (>C12-C24)	3.25	1.63	4.87
Motor Oil (>C24-C36)	6.16	4.87	7.45
Motor Oil Range Organics (C24-C40)	6.63	4.94	8.31
o-Terphenyl	3.52	3.49	3.55

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_004.D  
 Lims ID: CCVRT  
 Client ID:  
 Sample Type: CCVRT  
 Inject. Date: 14-Oct-2020 08:25:38 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: ccvrt  
 Operator ID: adb Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 14-Oct-2020 14:21:59 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1635

First Level Reviewer: basiln Date: 14-Oct-2020 08:48:39

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	2.908	(0.942-4.873)		70390972	500.0	507.7	
A 35 C10-C25	2.965	(0.942-4.988)		71158684	NC	NC	
A 55 C9-C25	3.069	(0.830-5.307)		74991482	NC	NC	
A 9 C12-C24	3.253	(1.633-4.873)		59851017	500.0	507.1	
A 25 C10-C28	3.343	(0.942-5.744)		77948544	NC	NC	
\$ 10 o-Terphenyl	3.520	3.520	0.000	1481650	10.3	9.80	
A 14 C24-C32	5.761	(4.873-6.648)		21376847	NC	NC	
\$ 33 n-Triacontane-d62	5.985	5.985	0.000	989859	NC	NC	Ma
A 15 Motor Oil	6.163	(4.873-7.452)		33237143	500.0	506.3	
A 26 C24-C36	6.163	(4.873-7.452)		33237143	NC	NC	
E 32 C25-C36	6.220	(4.988-7.452)		32469431	NC	NC	
A 52 C24-C40	6.628	(4.943-8.313)		41488013	500.0	490.9	
A 30 C28-C40	6.994	(5.744-8.243)		33817519	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

TPH-IC\*\_500\_00015 Amount Added: 1.00 Units: mL  
 MeCl2\_CT\_00185 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_004.D

Injection Date: 14-Oct-2020 08:25:38

Instrument ID: TAC013

Lims ID: CCVRT

Client ID:

Operator ID: adb

ALS Bottle#: 3

Worklist Smp#: 3

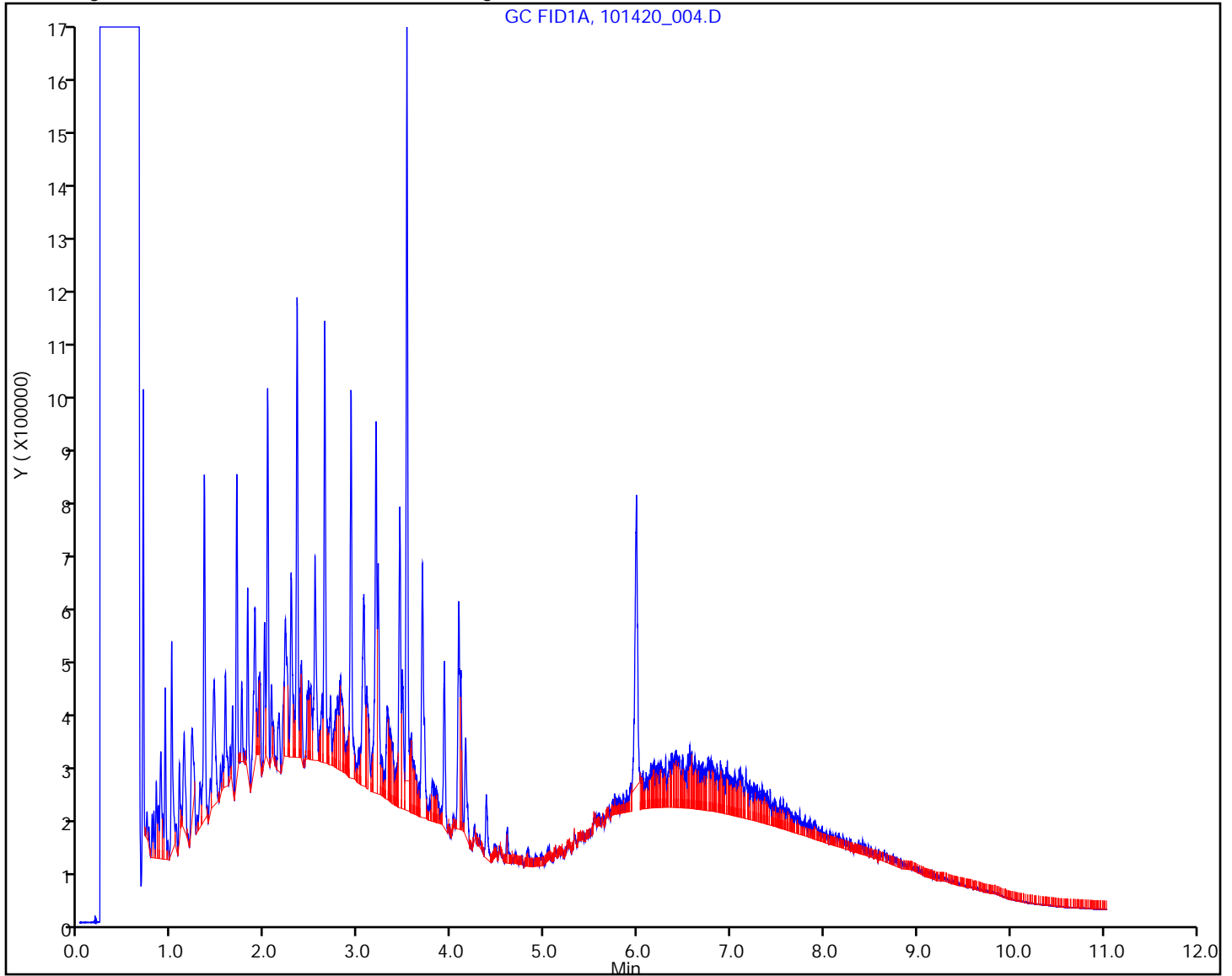
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_004.D

Injection Date: 14-Oct-2020 08:25:38

Instrument ID: TAC013

Lims ID: CCVRT

Client ID:

Operator ID: adb

ALS Bottle#: 3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

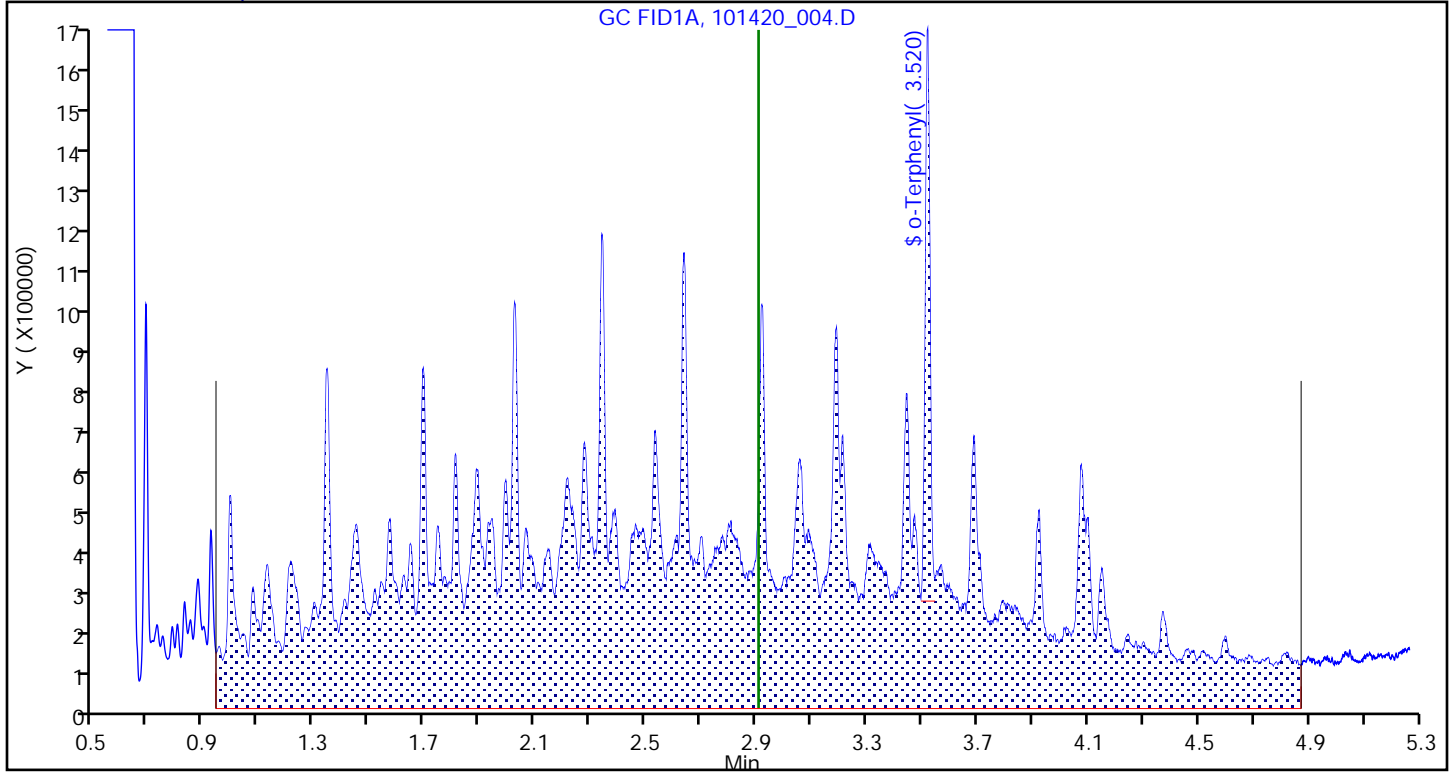
Method: TPH-TAC13Front

Limit Group: NWT PH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_004.D

Injection Date: 14-Oct-2020 08:25:38

Instrument ID: TAC013

Lims ID: CCVRT

Client ID:

Operator ID: adb

ALS Bottle#: 3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

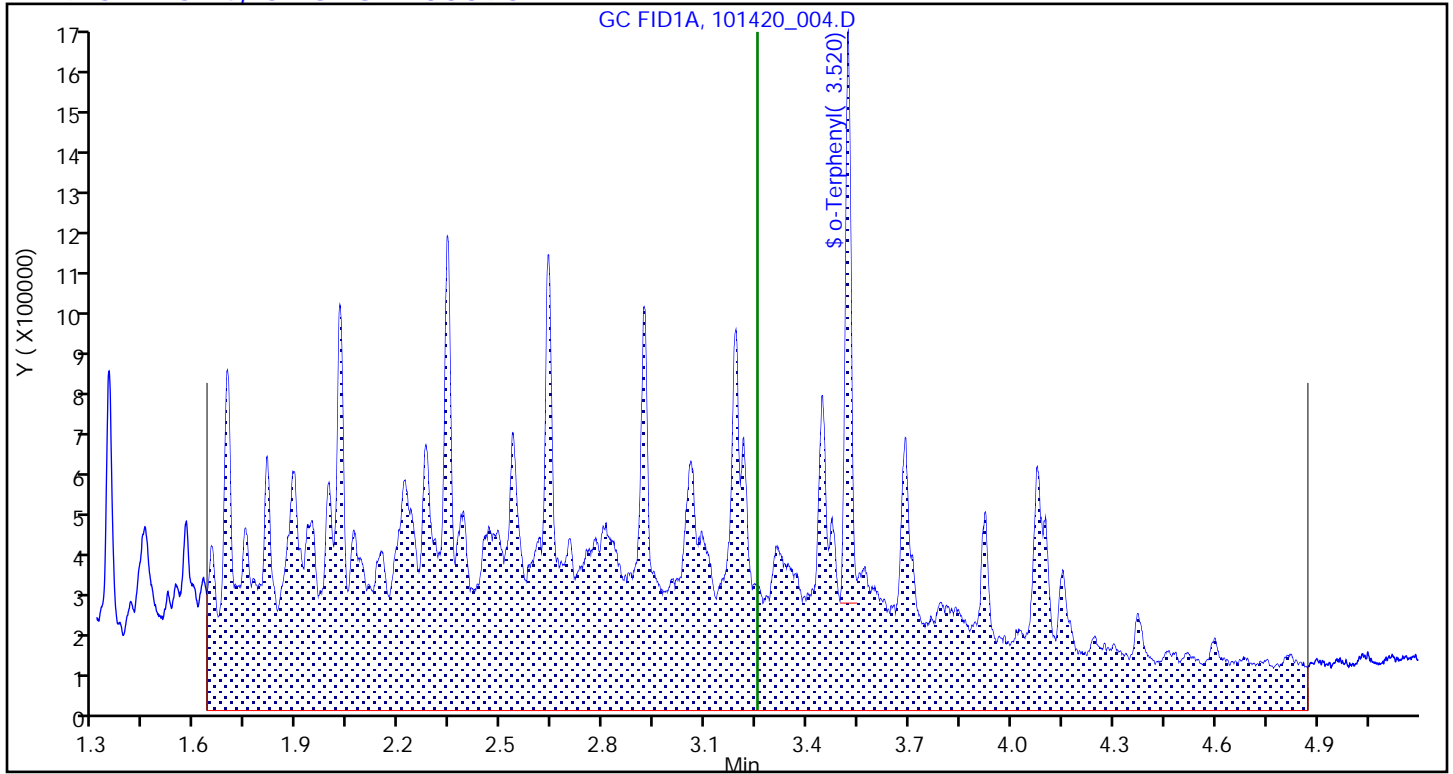
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector: GC FID1A

**A 9 C12-C24, CAS: STL00096**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_004.D

Injection Date: 14-Oct-2020 08:25:38

Instrument ID: TAC013

Lims ID: CCVRT

Client ID:

Operator ID: adb

ALS Bottle#: 3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

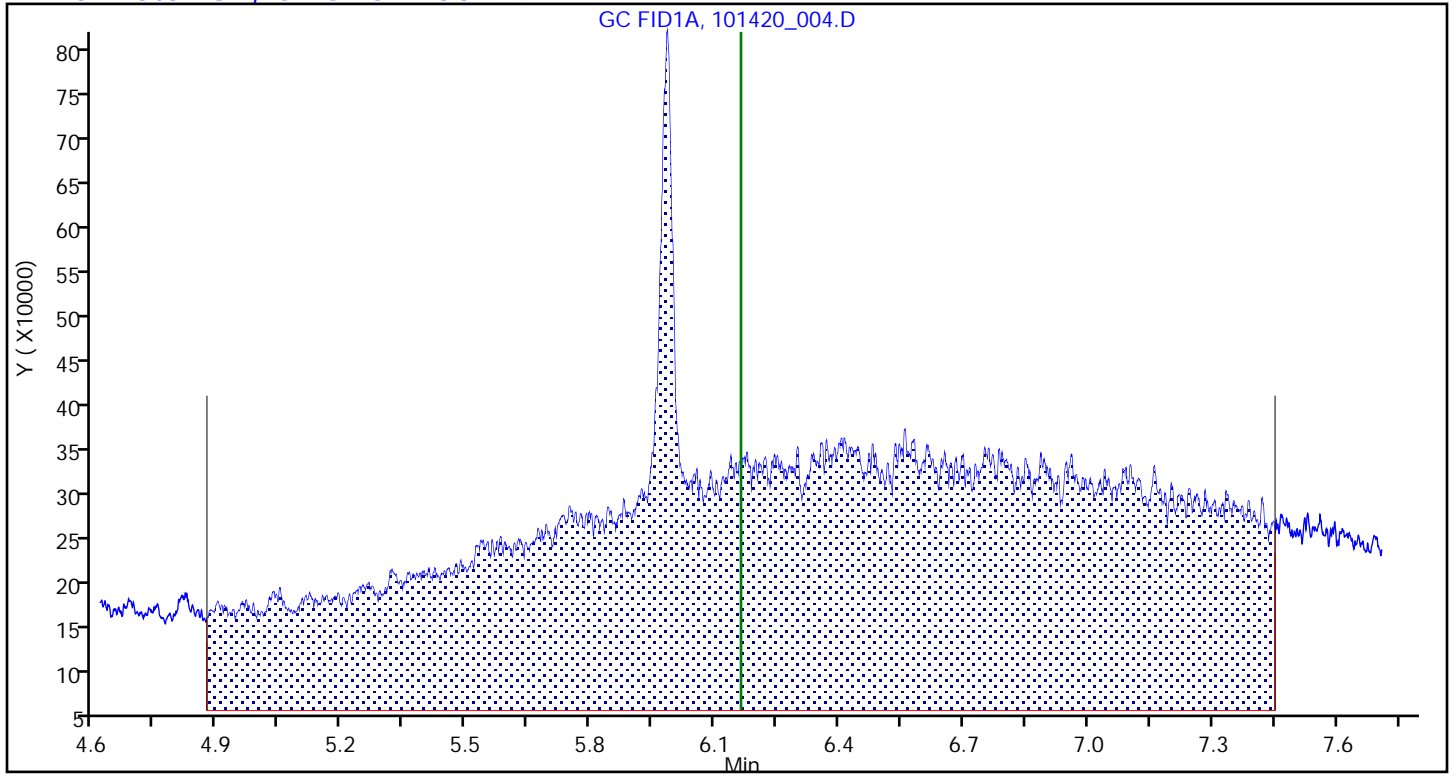
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_004.D

Injection Date: 14-Oct-2020 08:25:38

Instrument ID: TAC013

Lims ID: CCVRT

Client ID:

Operator ID: adb

ALS Bottle#: 3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

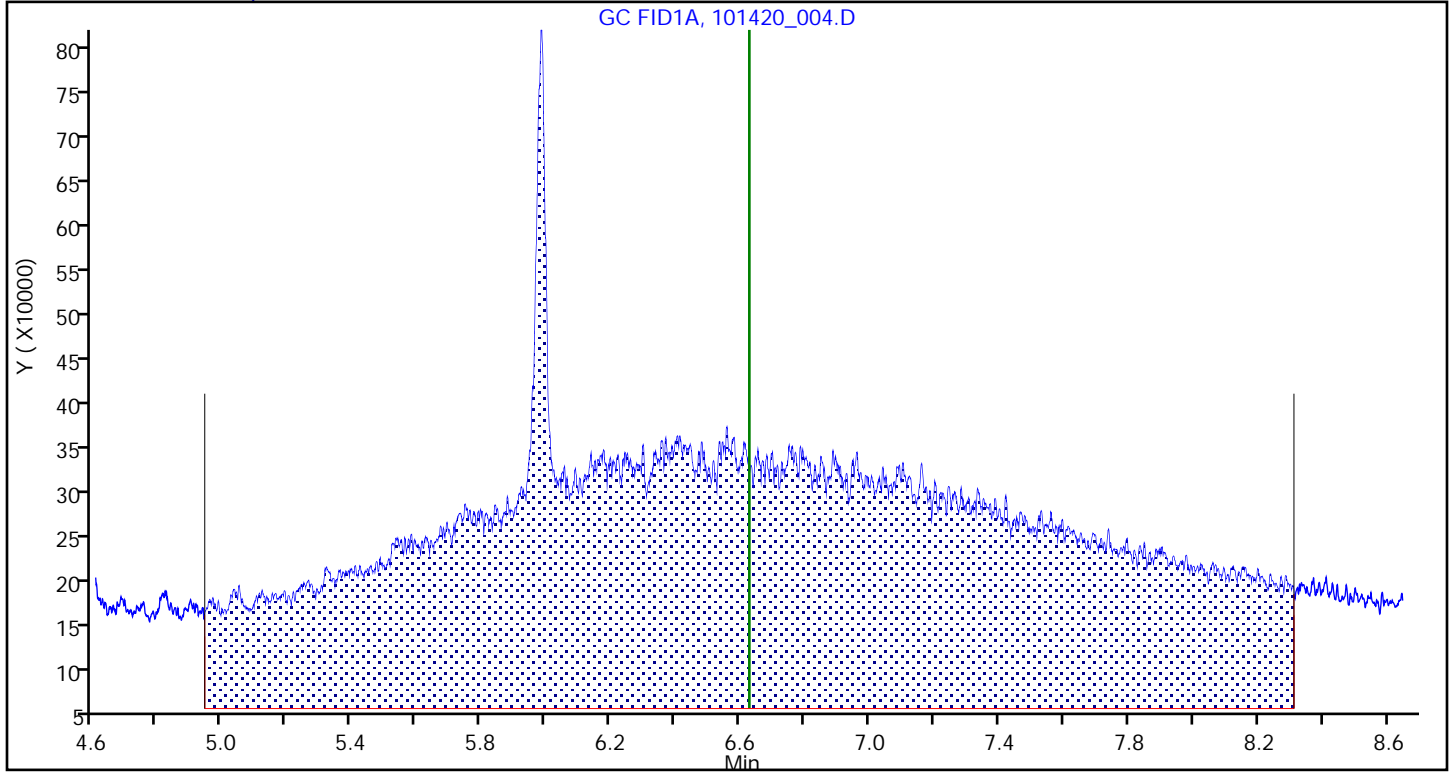
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

[A 52 C24-C40, CAS: STL00631](#)



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340757/14 Calibration Date: 10/14/2020 12:04  
 Instrument ID: TAC013 Calib Start Date: 07/09/2020 10:29  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/09/2020 13:29  
 Lab File ID: 101420\_035a.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
#2 Diesel (C10-C24)	Lin2		121308		8770	10000	-12.3	15.0
#2 Diesel (>C12-C24)	Lin2		103281		8770	10000	-12.3	15.0
Motor Oil (>C24-C36)	Lin2		57249		8740	10000	-12.6	15.0
Motor Oil Range Organics (C24-C40)	Lin2		78020		9260	10000	-7.4	15.0
o-Terphenyl	Ave	151176	102930		141	207	-31.9*	15.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340757/14 Calibration Date: 10/14/2020 12:04  
 Instrument ID: TAC013 Calib Start Date: 07/09/2020 10:29  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/09/2020 13:29  
 Lab File ID: 101420\_035a.D

Analyte	RT	RT WINDOW	
		FROM	TO
#2 Diesel (C10-C24)	2.91	0.94	4.87
#2 Diesel (>C12-C24)	3.25	1.63	4.87
Motor Oil (>C24-C36)	6.16	4.87	7.45
Motor Oil Range Organics (C24-C40)	6.63	4.94	8.31
o-Terphenyl	3.57	3.49	3.55

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_035a.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 14-Oct-2020 12:04:26 ALS Bottle#: 91 Worklist Smp#: 14  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: ccv  
 Operator ID: adb Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 14-Oct-2020 14:22:23 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1635

First Level Reviewer: basiln Date: 14-Oct-2020 13:06:23

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	2.908	(0.942-4.873)		1213082366	10000	8768.4	
A 35 C10-C25	2.965	(0.942-4.988)		1224783381	NC	NC	
A 55 C9-C25	3.069	(0.830-5.307)		1285862657	NC	NC	
A 9 C12-C24	3.253	(1.633-4.873)		1032806847	10000	8768.9	
A 25 C10-C28	3.343	(0.942-5.744)		1323226169	NC	NC	
\$ 10 o-Terphenyl	3.566	3.520	0.046	21275598	206.7	140.7	M
A 14 C24-C32	5.761	(4.873-6.648)		326434530	NC	NC	
\$ 33 n-Triacontane-d62	6.076	5.985	0.091	18497392	NC	NC	Ma
A 15 Motor Oil	6.163	(4.873-7.452)		572485771	10000	8743.9	
A 26 C24-C36	6.163	(4.873-7.452)		572485771	NC	NC	
E 32 C25-C36	6.220	(4.988-7.452)		560784756	NC	NC	
A 52 C24-C40	6.628	(4.943-8.313)		780202521	10000	9263.8	
A 30 C28-C40	6.994	(5.744-8.243)		663391823	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MeCl2\_CT\_00185 Amount Added: 1.00 Units: mL Run Reagent  
 TPH-IC\*\_10000\_00010 Amount Added: 1.00 Units: ml

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_035a.D

Injection Date: 14-Oct-2020 12:04:26

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 91

Worklist Smp#: 14

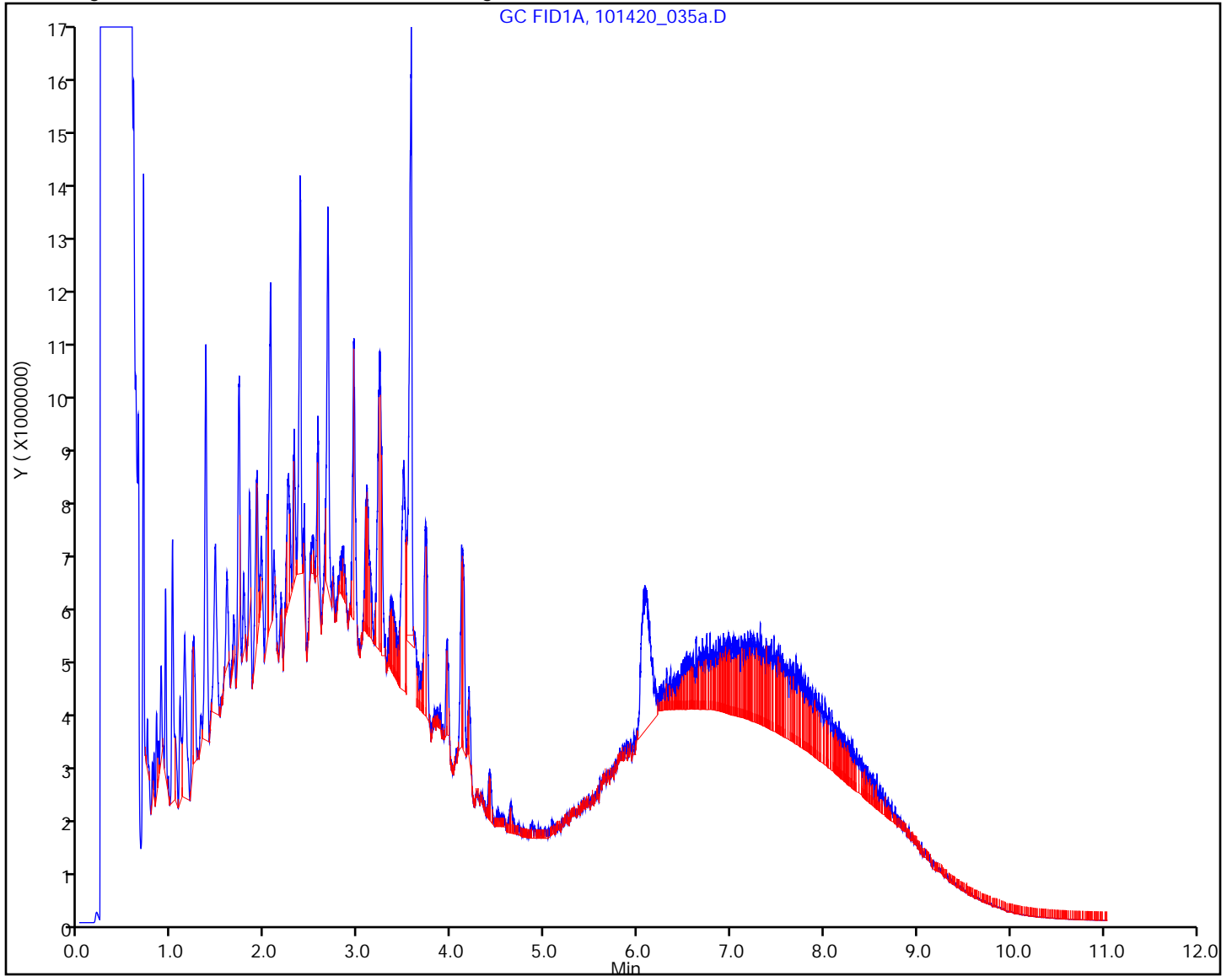
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_035a.D

Injection Date: 14-Oct-2020 12:04:26

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 91

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

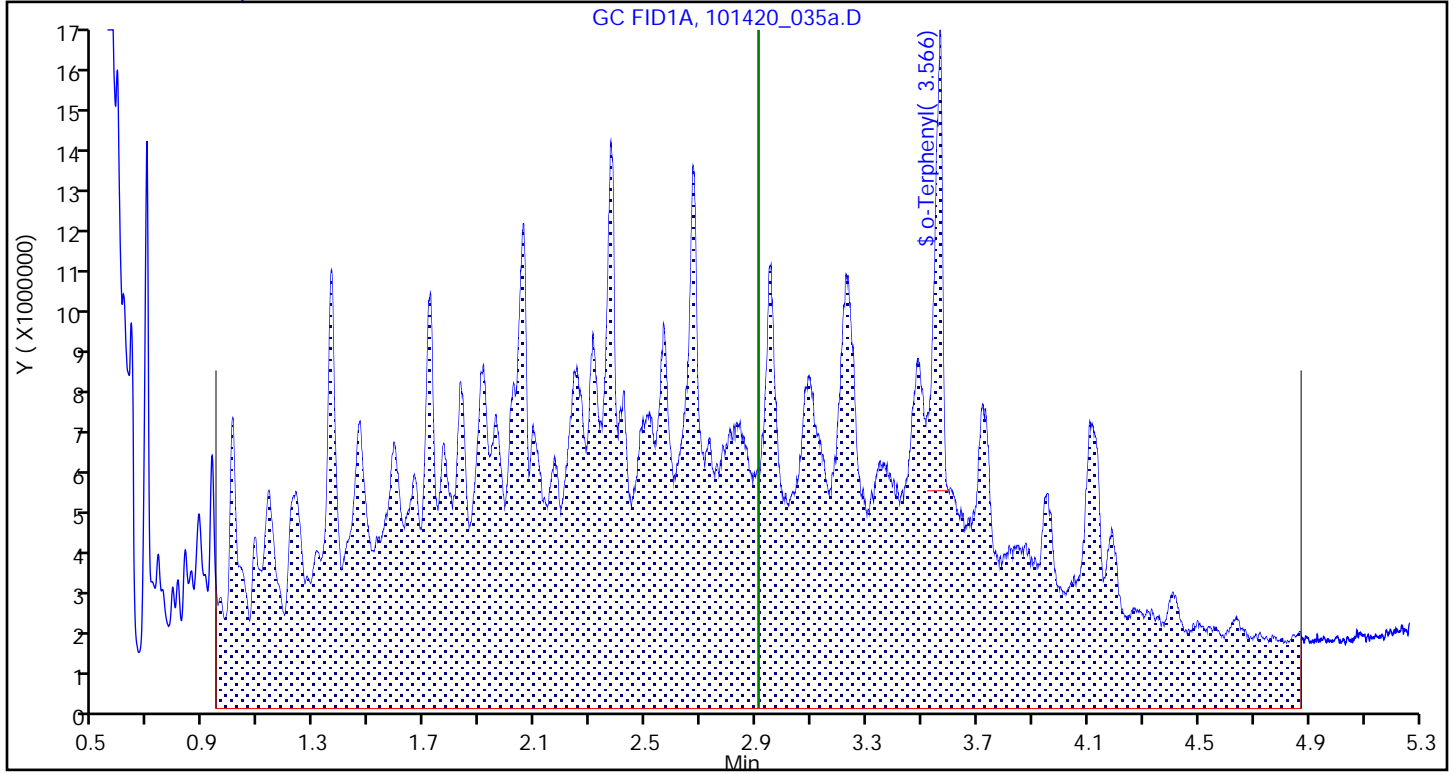
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_035a.D

Injection Date: 14-Oct-2020 12:04:26

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 91

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

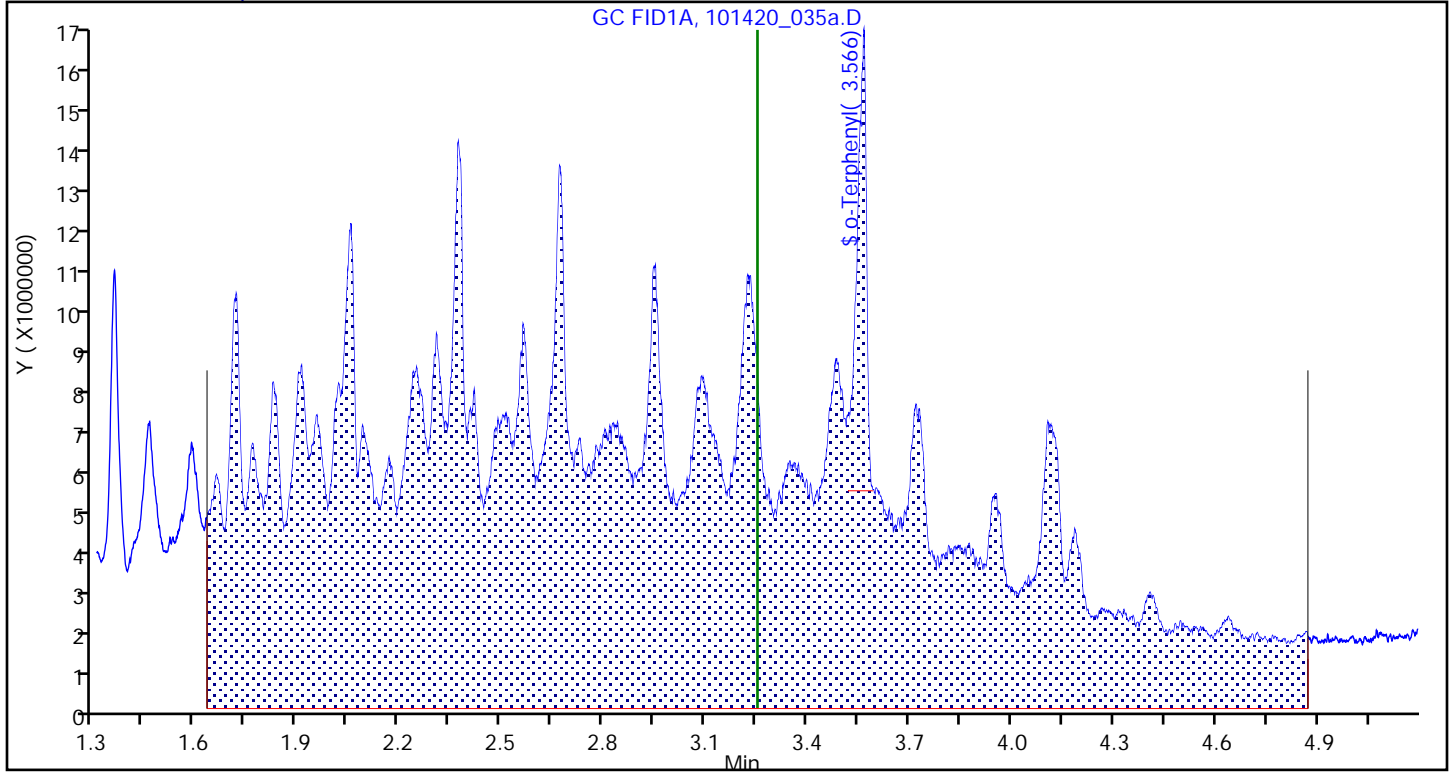
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

A 9 C12-C24, CAS: STL00096



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_035a.D

Injection Date: 14-Oct-2020 12:04:26

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 91

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

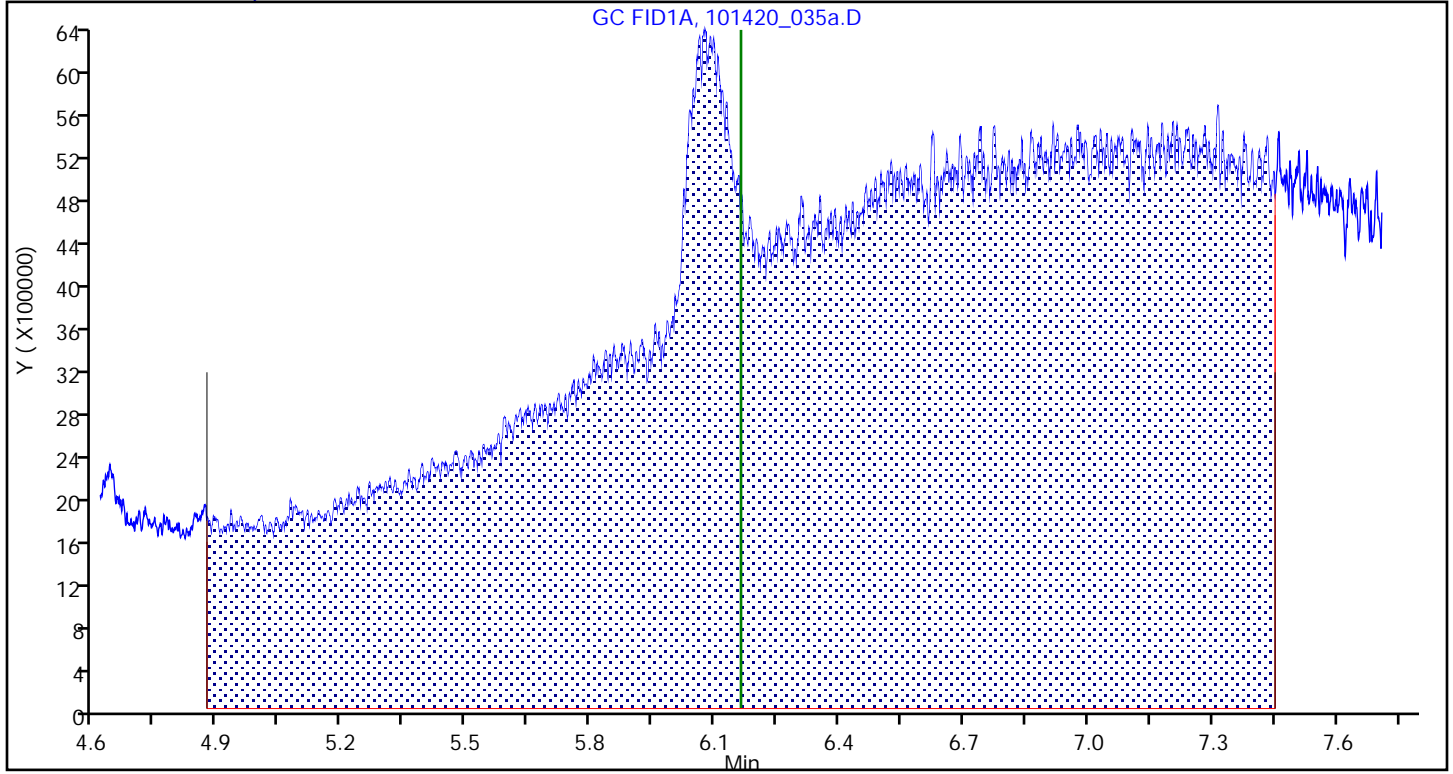
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_035a.D

Injection Date: 14-Oct-2020 12:04:26

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 91

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

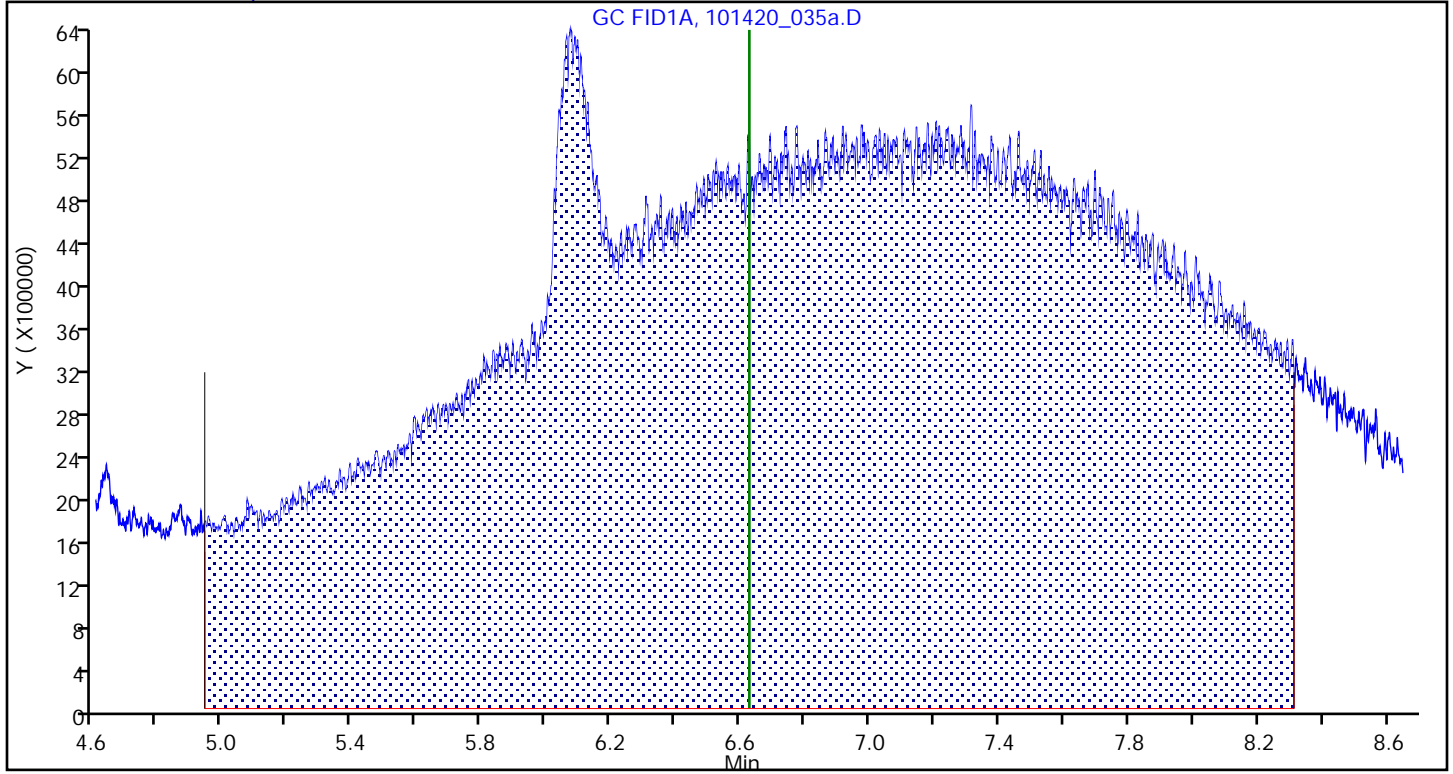
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**



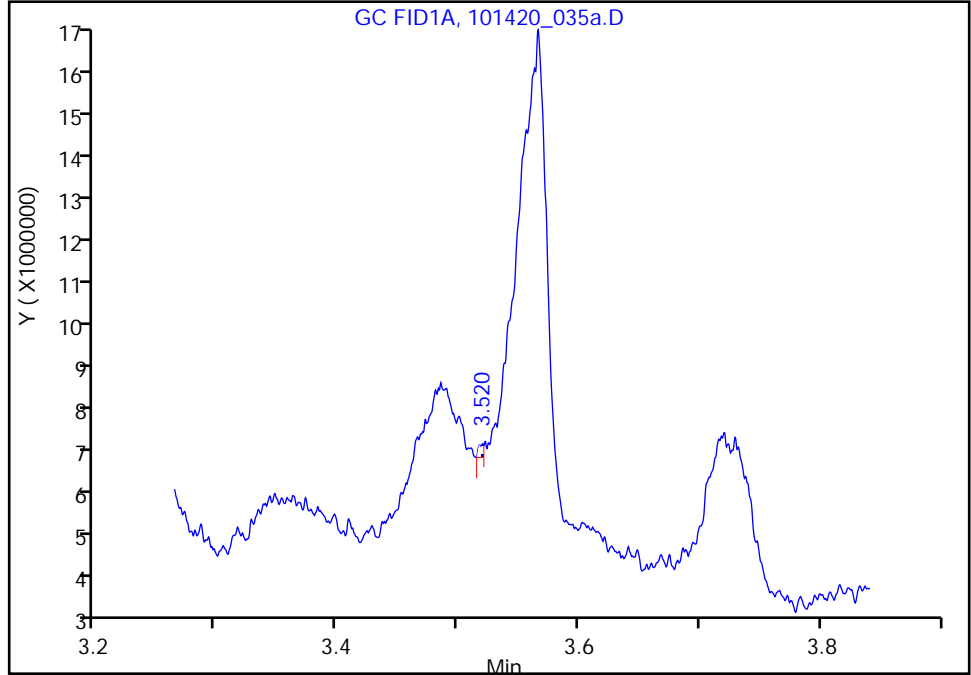
Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_035a.D  
Injection Date: 14-Oct-2020 12:04:26 Instrument ID: TAC013  
Lims ID: ccv  
Client ID:  
Operator ID: adb ALS Bottle#: 91 Worklist Smp#: 14  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: TPH-TAC13Front Limit Group: NWTPH-DX Standard list  
Column: Detector GC FID1A

\$ 10 o-Terphenyl, CAS: 84-15-1  
Signal: 1

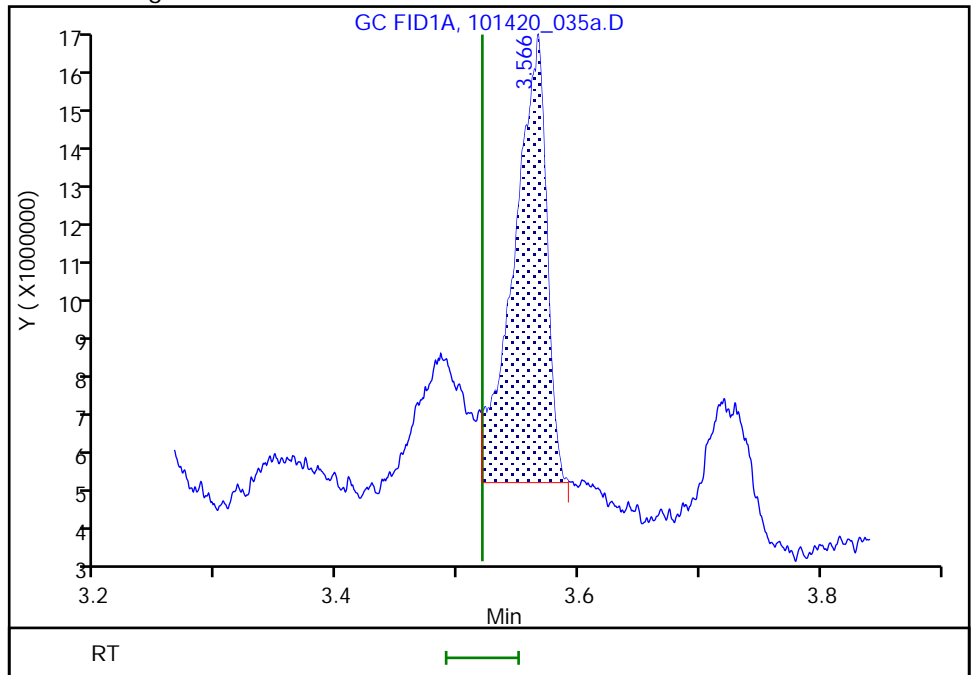
RT: 3.52  
Area: 85119  
Amount: 0.563047  
Amount Units: ng/uL

Processing Integration Results



RT: 3.57  
Area: 21275598  
Amount: 140.7342  
Amount Units: ng/uL

Manual Integration Results



Reviewer: basiln, 14-Oct-2020 13:21:46  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 916 of 974

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340757/73 Calibration Date: 10/14/2020 15:46  
 Instrument ID: TAC013 Calib Start Date: 07/09/2020 10:29  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/09/2020 13:29  
 Lab File ID: 101420\_052b.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
#2 Diesel (C10-C24)	Lin2		157185		567	500	13.4	15.0
#2 Diesel (>C12-C24)	Lin2		133889		567	500	13.5	15.0
Motor Oil (>C24-C36)	Lin2		72833		555	500	11.0	15.0
Motor Oil Range Organics (C24-C40)	Lin2		91854		544	500	8.7	15.0
o-Terphenyl	Ave	151176	157109		10.7	10.3	3.9	15.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340757/73 Calibration Date: 10/14/2020 15:46  
 Instrument ID: TAC013 Calib Start Date: 07/09/2020 10:29  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/09/2020 13:29  
 Lab File ID: 101420\_052b.D

Analyte	RT	RT WINDOW	
		FROM	TO
#2 Diesel (C10-C24)	2.91	0.94	4.87
#2 Diesel (>C12-C24)	3.25	1.63	4.87
Motor Oil (>C24-C36)	6.16	4.87	7.45
Motor Oil Range Organics (C24-C40)	6.63	4.94	8.31
o-Terphenyl	3.52	3.49	3.55

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_052b.D  
 Lims ID: CCV  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 14-Oct-2020 15:46:41 ALS Bottle#: 14 Worklist Smp#: 73  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: ccv  
 Operator ID: adb Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 14-Oct-2020 16:05:48 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1635

First Level Reviewer: basiln Date: 14-Oct-2020 16:05:17

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	2.908	(0.942-4.873)		78592688	500.0	567.0	
A 35 C10-C25	2.965	(0.942-4.988)		79426709	NC	NC	
A 55 C9-C25	3.069	(0.830-5.307)		83614963	NC	NC	
A 9 C12-C24	3.253	(1.633-4.873)		66944689	500.0	567.3	
A 25 C10-C28	3.343	(0.942-5.744)		86742066	NC	NC	
\$ 10 o-Terphenyl	3.520	3.520	0.000	1623724	10.3	10.7	
A 14 C24-C32	5.761	(4.873-6.648)		23136217	NC	NC	
\$ 33 n-Triacontane-d62	6.011	5.985	0.026	1077981	NC	NC	Ma
A 15 Motor Oil	6.163	(4.873-7.452)		36416670	500.0	554.9	
A 26 C24-C36	6.163	(4.873-7.452)		36416670	NC	NC	
E 32 C25-C36	6.220	(4.988-7.452)		35582650	NC	NC	
A 52 C24-C40	6.628	(4.943-8.313)		45926969	500.0	543.6	
A 30 C28-C40	6.994	(5.744-8.243)		37617858	NC	NC	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

TPH-IC\*\_500\_00015 Amount Added: 1.00 Units: mL  
 MeCl2\_CT\_00185 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_052b.D

Injection Date: 14-Oct-2020 15:46:41

Instrument ID: TAC013

Lims ID: CCV

Client ID:

Operator ID: adb

ALS Bottle#: 14

Worklist Smp#: 73

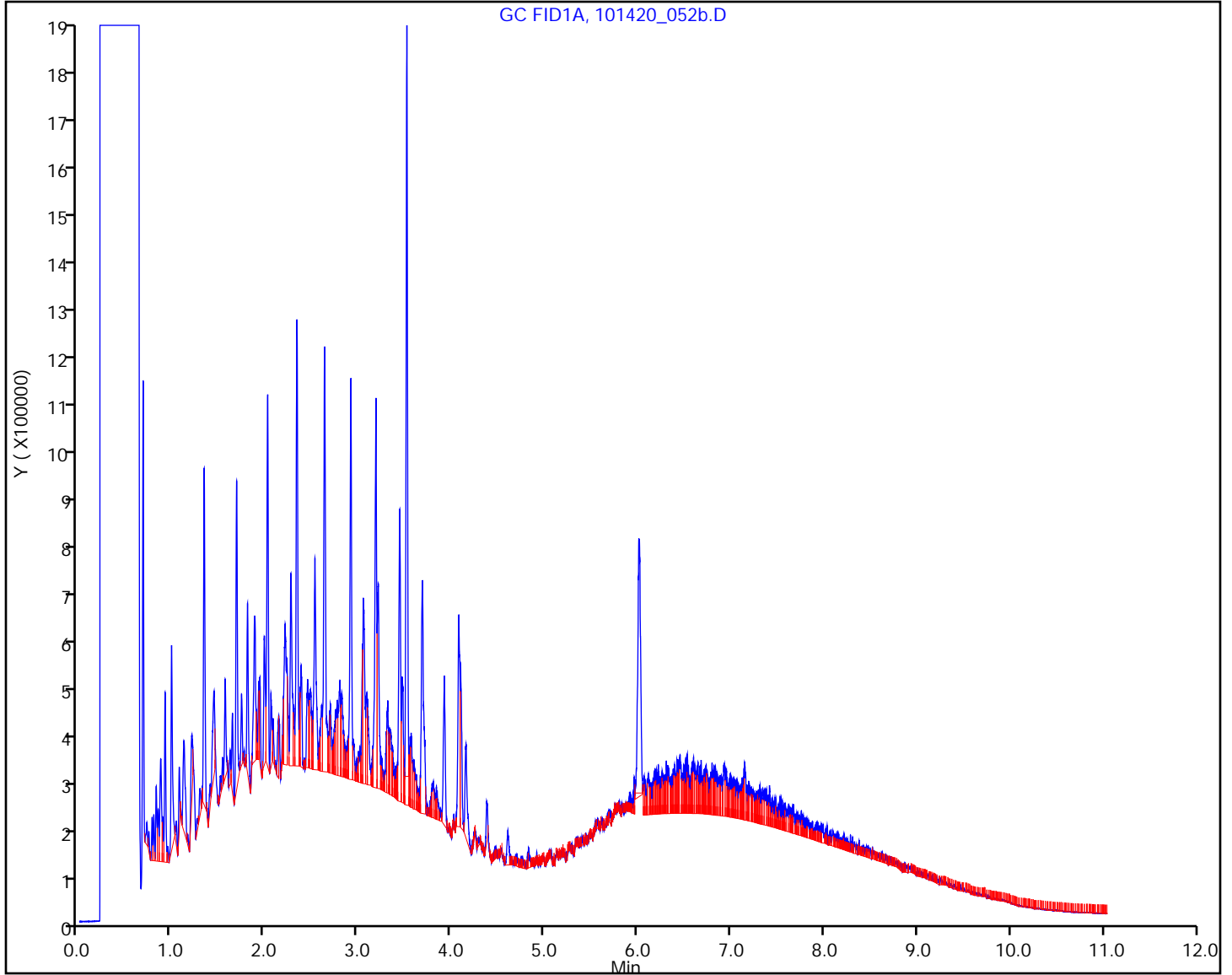
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_052b.D

Injection Date: 14-Oct-2020 15:46:41

Instrument ID: TAC013

Lims ID: CCV

Client ID:

Operator ID: adb

ALS Bottle#: 14

Worklist Smp#: 73

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

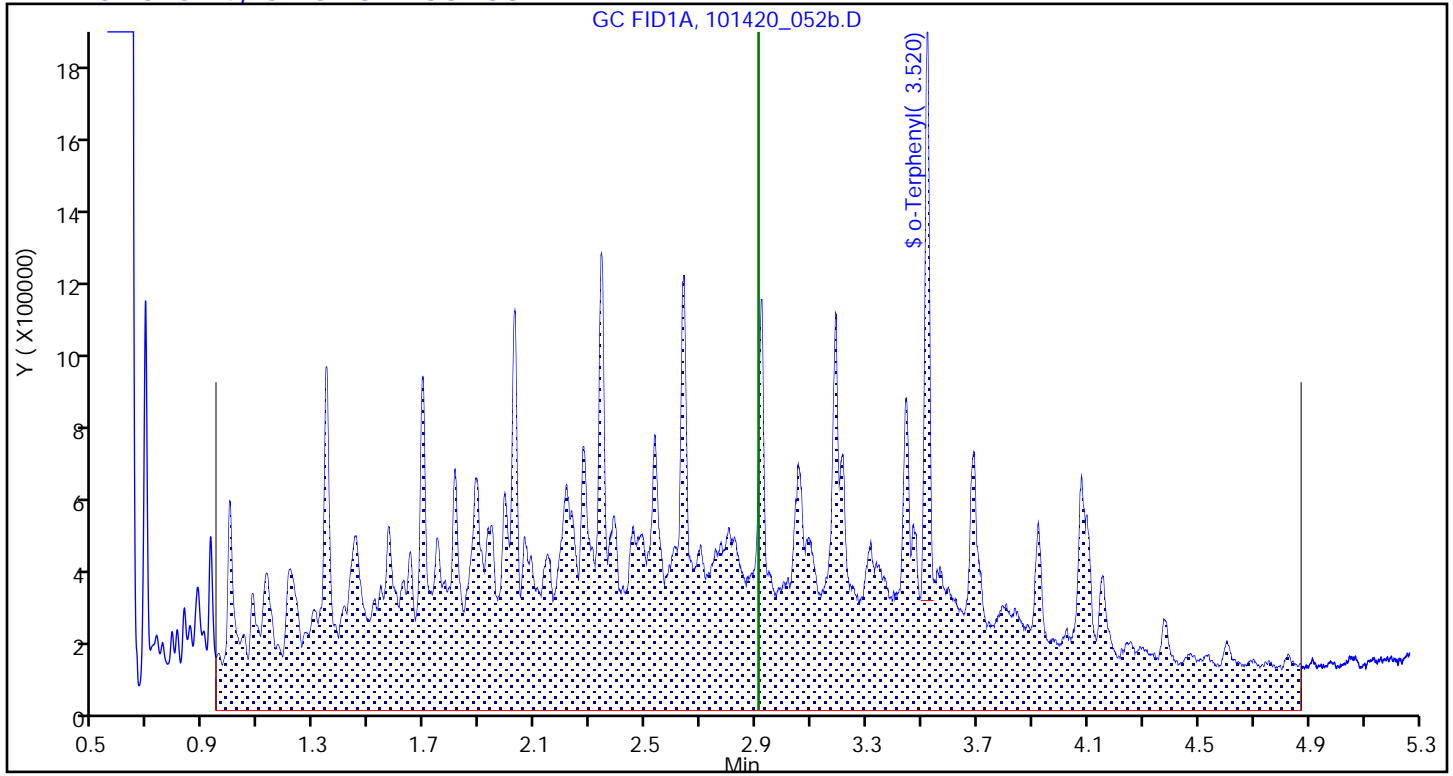
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_052b.D

Injection Date: 14-Oct-2020 15:46:41

Instrument ID: TAC013

Lims ID: CCV

Client ID:

Operator ID: adb

ALS Bottle#: 14

Worklist Smp#: 73

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

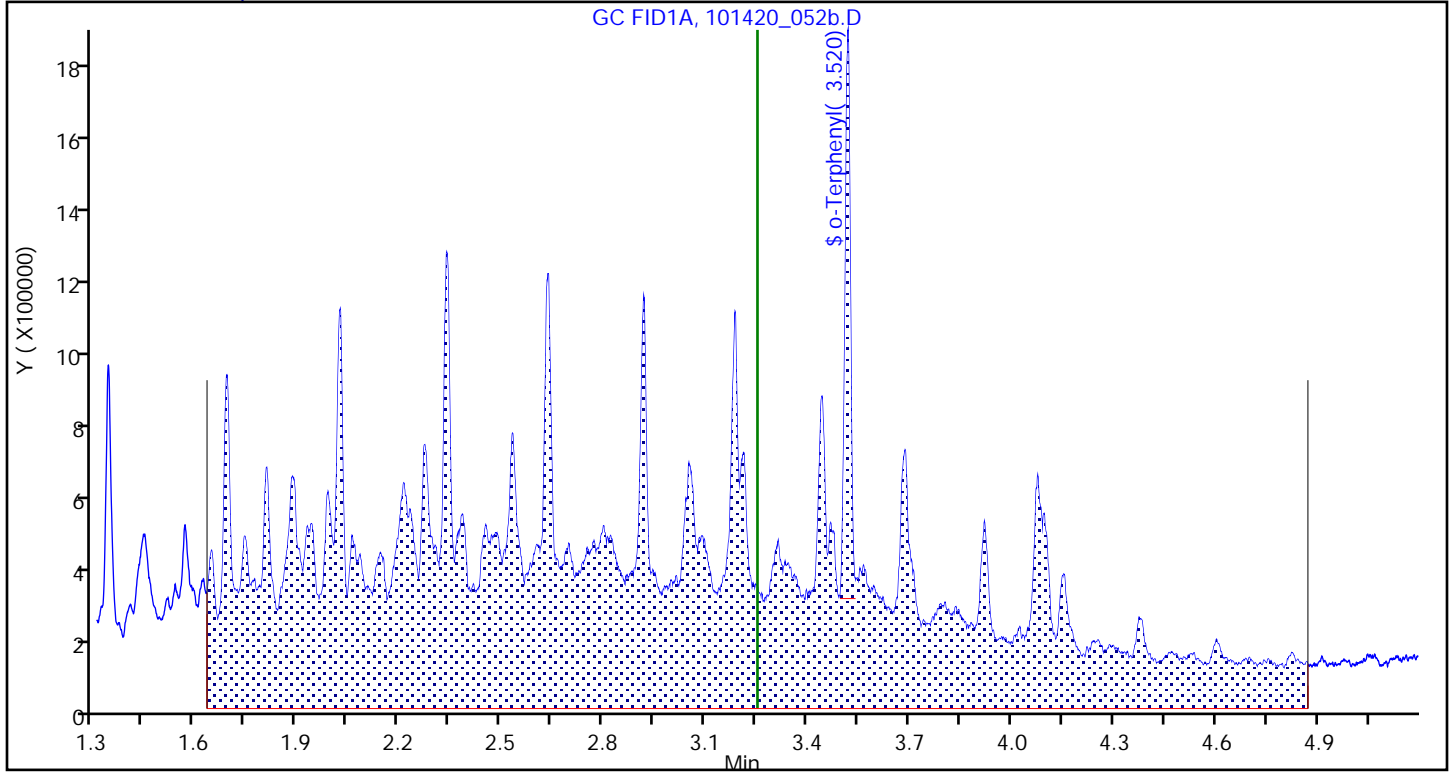
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 9 C12-C24, CAS: STL00096**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_052b.D

Injection Date: 14-Oct-2020 15:46:41

Instrument ID: TAC013

Lims ID: CCV

Client ID:

Operator ID: adb

ALS Bottle#: 14

Worklist Smp#: 73

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

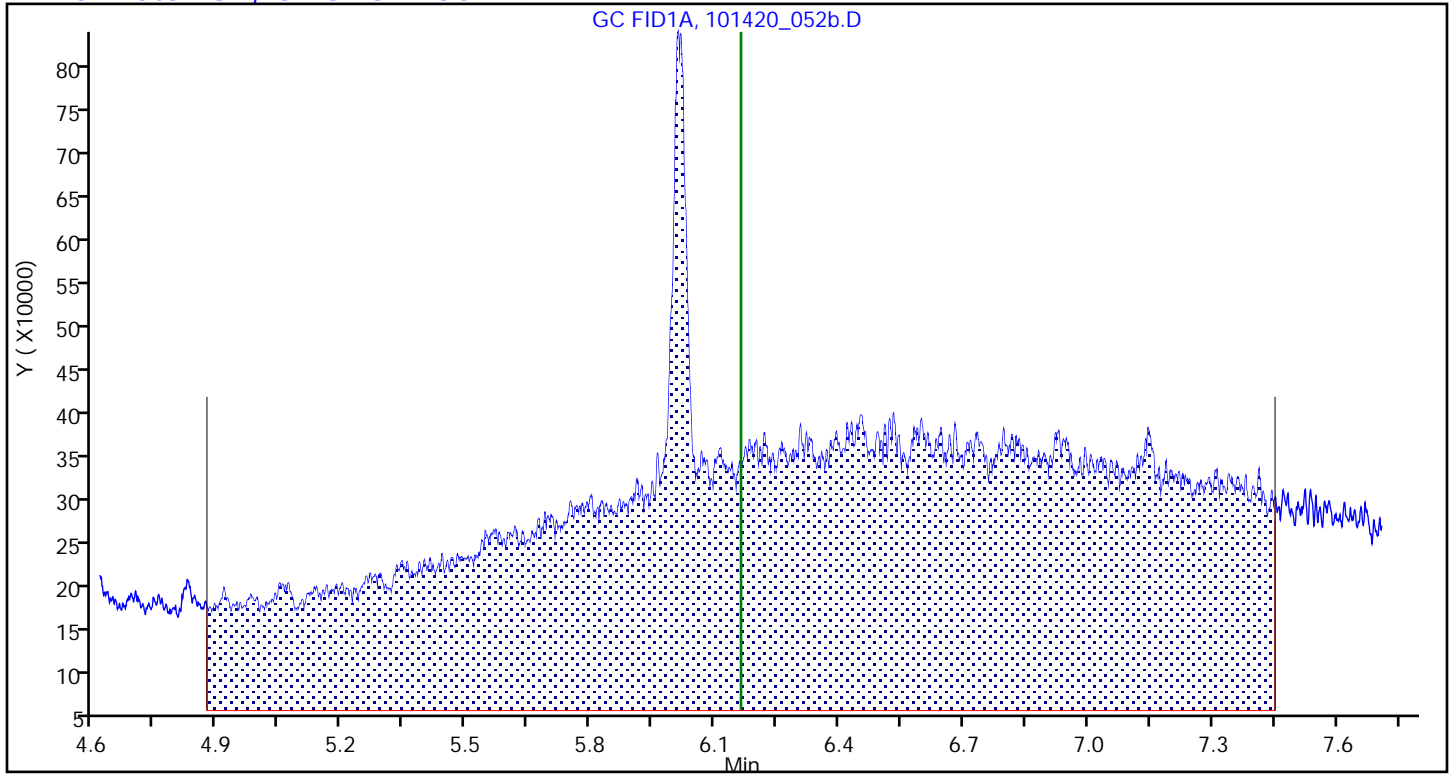
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_052b.D

Injection Date: 14-Oct-2020 15:46:41

Instrument ID: TAC013

Lims ID: CCV

Client ID:

Operator ID: adb

ALS Bottle#: 14

Worklist Smp#: 73

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

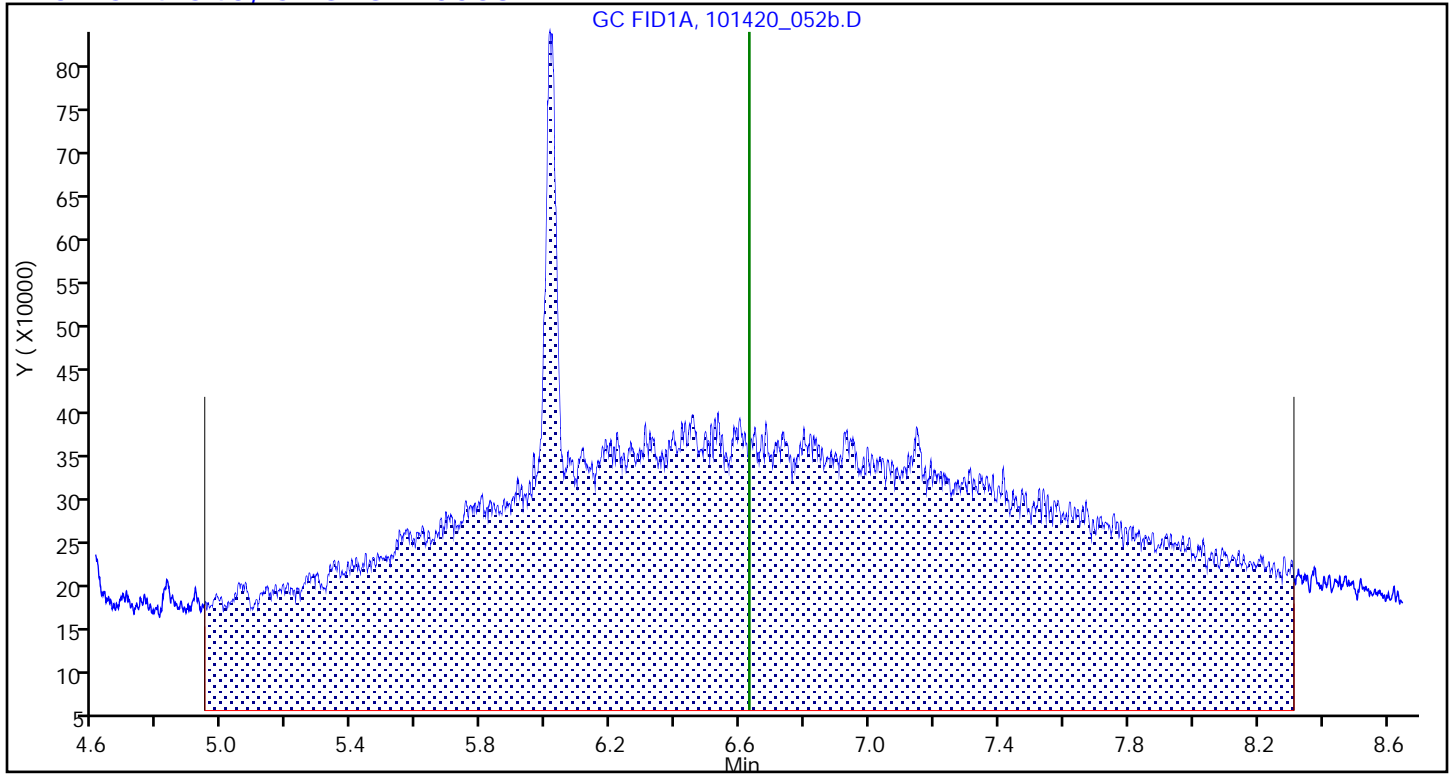
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340757/78 Calibration Date: 10/14/2020 18:26  
 Instrument ID: TAC013 Calib Start Date: 07/09/2020 10:29  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/09/2020 13:29  
 Lab File ID: 101420\_018a.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
#2 Diesel (C10-C24)	Lin2		153282		553	500	10.6	15.0
#2 Diesel (>C12-C24)	Lin2		130462		553	500	10.6	15.0
Motor Oil (>C24-C36)	Lin2		71995		548	500	9.7	15.0
Motor Oil Range Organics (C24-C40)	Lin2		90984		538	500	7.7	15.0
o-Terphenyl	Ave	151176	156583		10.7	10.3	3.6	15.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340757/78 Calibration Date: 10/14/2020 18:26  
 Instrument ID: TAC013 Calib Start Date: 07/09/2020 10:29  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/09/2020 13:29  
 Lab File ID: 101420\_018a.D

Analyte	RT	RT WINDOW	
		FROM	TO
#2 Diesel (C10-C24)	2.91	0.94	4.87
#2 Diesel (>C12-C24)	3.25	1.63	4.87
Motor Oil (>C24-C36)	6.16	4.87	7.45
Motor Oil Range Organics (C24-C40)	6.63	4.94	8.31
o-Terphenyl	3.52	3.49	3.55

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_018a.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 14-Oct-2020 18:26:37 ALS Bottle#: 85 Worklist Smp#: 78  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: ccv  
 Operator ID: adb Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 14-Oct-2020 18:43:34 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1635

First Level Reviewer: basiln Date: 14-Oct-2020 18:43:25

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	2.908	(0.942-4.873)		76640751	500.0	552.9	
A 35 C10-C25	2.965	(0.942-4.988)		77459724	NC	NC	
A 55 C9-C25	3.069	(0.830-5.307)		81576553	NC	NC	
A 9 C12-C24	3.253	(1.633-4.873)		65231061	500.0	552.8	
A 25 C10-C28	3.343	(0.942-5.744)		84606449	NC	NC	
\$ 10 o-Terphenyl	3.516	3.520	-0.004	1618290	10.3	10.7	
A 14 C24-C32	5.761	(4.873-6.648)		22760728	NC	NC	
\$ 33 n-Triacontane-d62	6.006	5.985	0.021	981473	NC	NC	M
A 15 Motor Oil	6.163	(4.873-7.452)		35997688	500.0	548.5	
A 26 C24-C36	6.163	(4.873-7.452)		35997688	NC	NC	
E 32 C25-C36	6.220	(4.988-7.452)		35178715	NC	NC	
A 52 C24-C40	6.628	(4.943-8.313)		45491756	500.0	538.4	
A 30 C28-C40	6.994	(5.744-8.243)		37371874	NC	NC	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

**Reagents:**

TPH-IC\*\_500\_00015 Amount Added: 1.00 Units: mL  
 MeCl2\_CT\_00185 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_018a.D

Injection Date: 14-Oct-2020 18:26:37

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 85

Worklist Smp#: 78

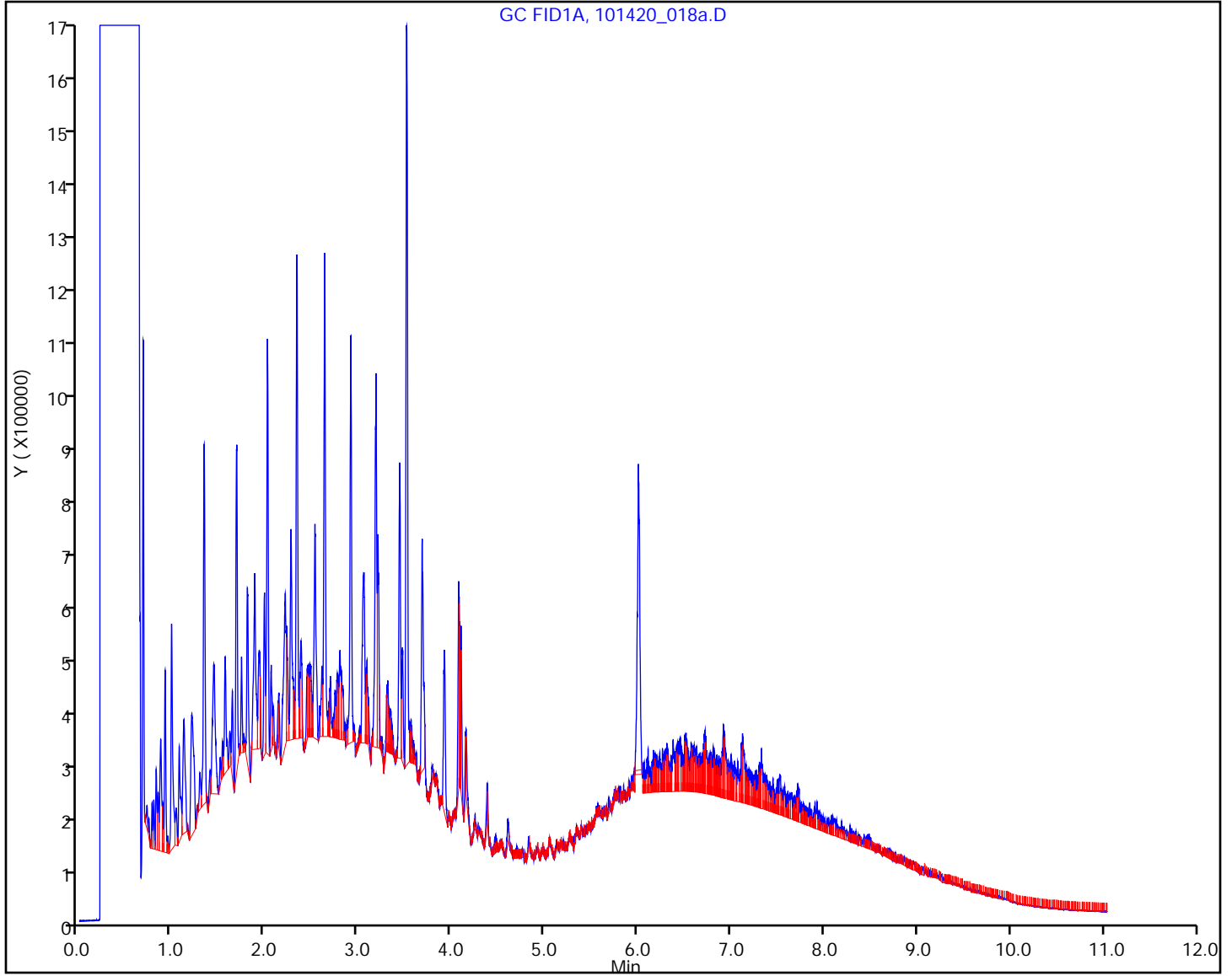
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_018a.D

Injection Date: 14-Oct-2020 18:26:37

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 85

Worklist Smp#: 78

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

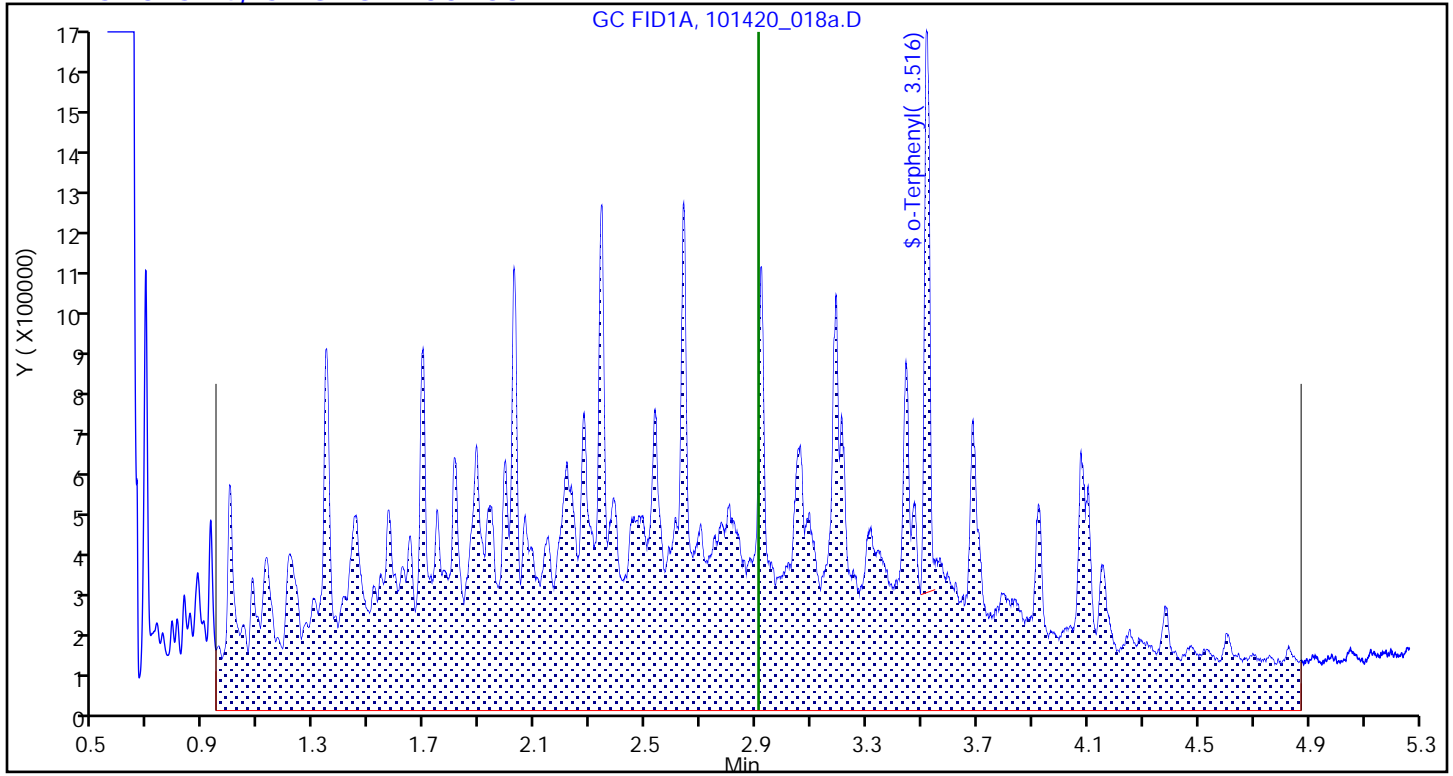
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

A 7 C10-C24, CAS: STL00163



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_018a.D

Injection Date: 14-Oct-2020 18:26:37

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 85

Worklist Smp#: 78

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

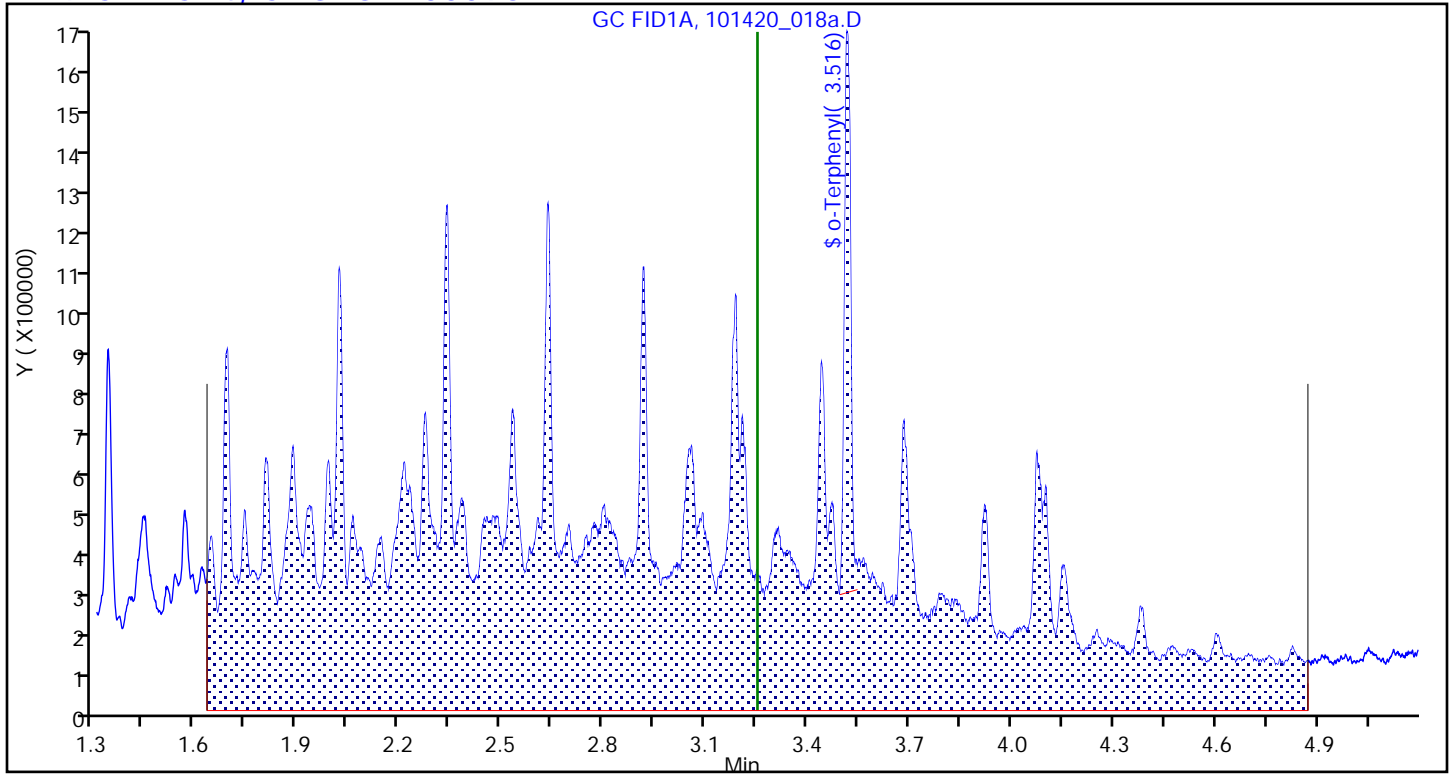
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

A 9 C12-C24, CAS: STL00096



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_018a.D

Injection Date: 14-Oct-2020 18:26:37

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 85

Worklist Smp#: 78

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

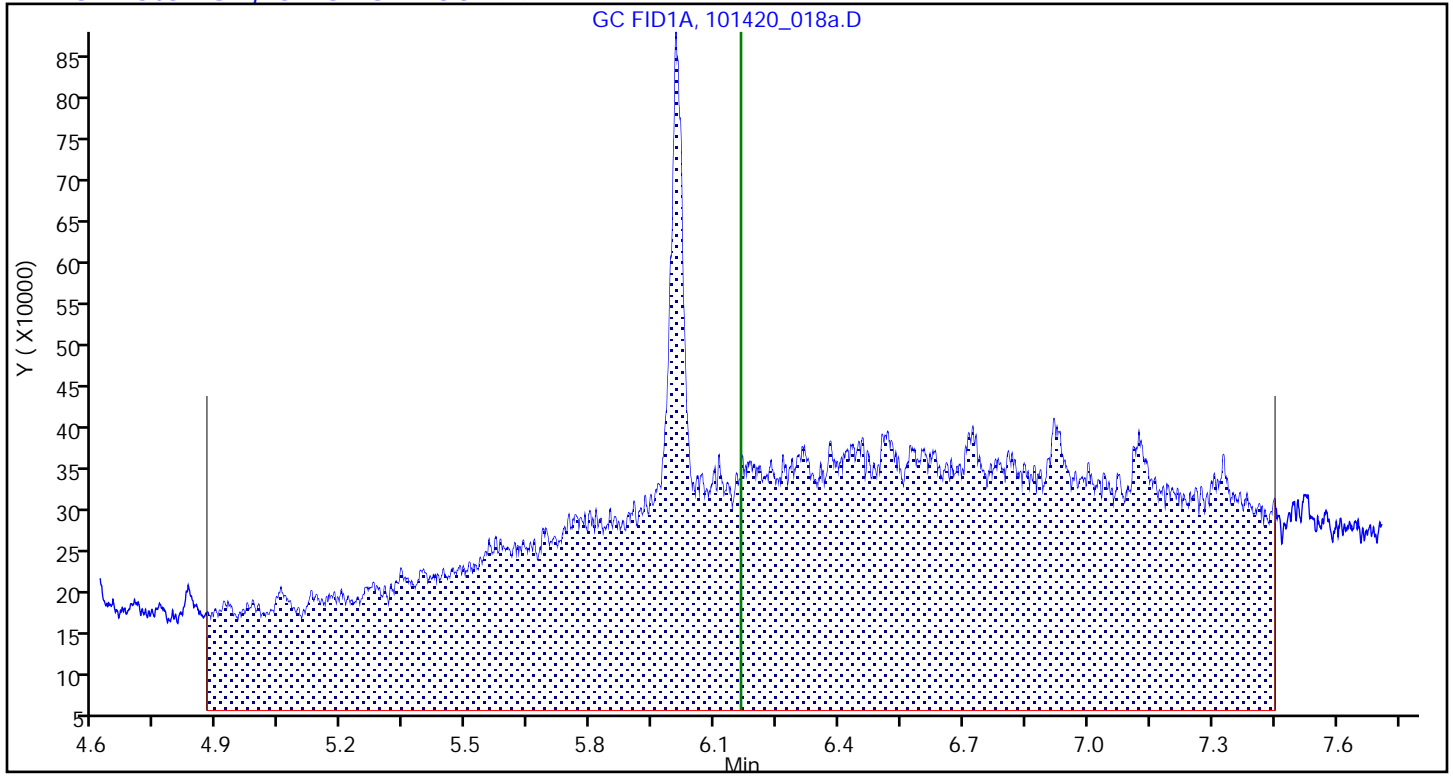
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_018a.D

Injection Date: 14-Oct-2020 18:26:37

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 85

Worklist Smp#: 78

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

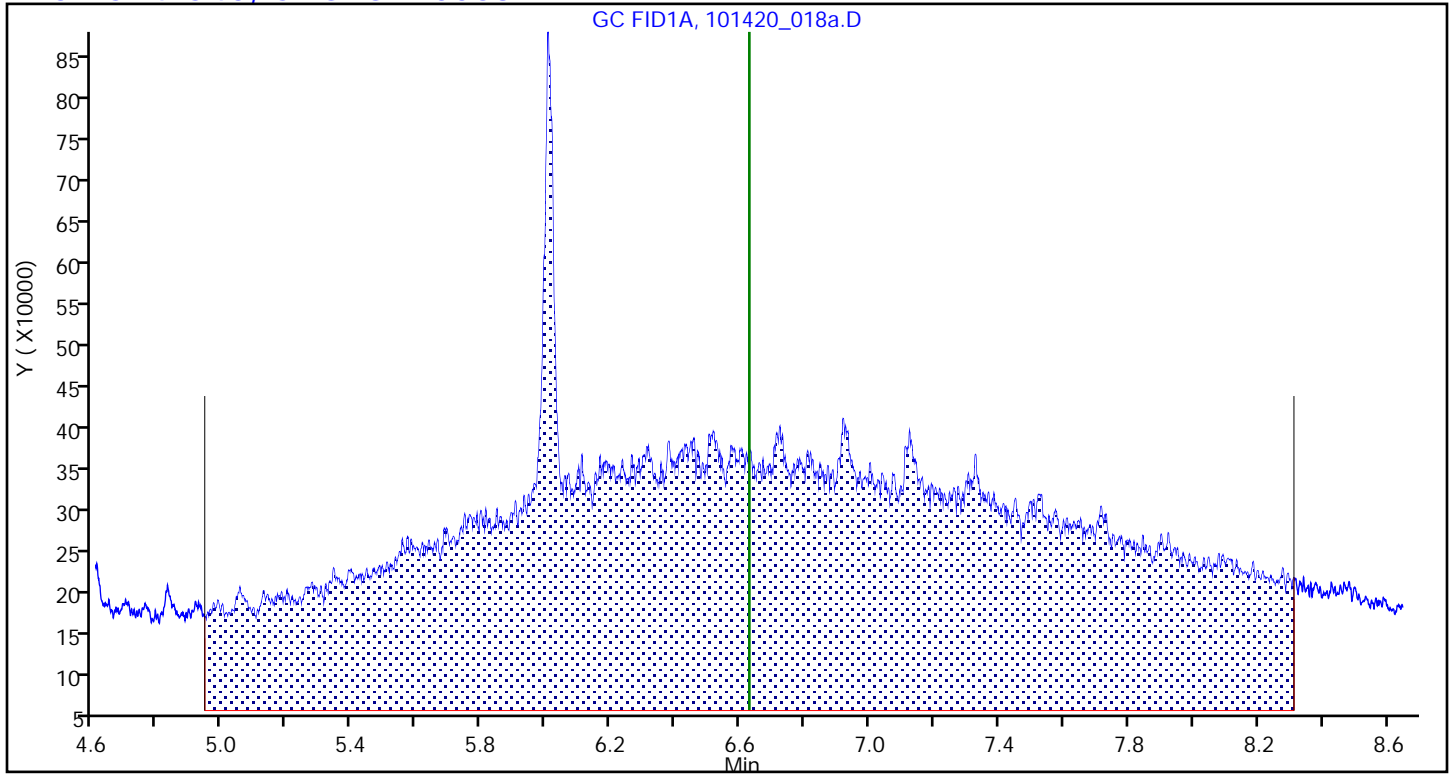
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**



FORM VII  
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340757/25 Calibration Date: 10/14/2020 20:25  
 Instrument ID: TAC013 Calib Start Date: 07/09/2020 10:29  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/09/2020 13:29  
 Lab File ID: 101420\_026.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
#2 Diesel (C10-C24)	Lin2		145903		526	500	5.2	15.0
#2 Diesel (>C12-C24)	Lin2		124447		527	500	5.4	15.0
Motor Oil (>C24-C36)	Lin2		70491		537	500	7.4	15.0
Motor Oil Range Organics (C24-C40)	Lin2		88435		523	500	4.7	15.0
o-Terphenyl	Ave	151176	147910		10.1	10.3	-2.2	15.0

FORM VII  
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 580-340757/25 Calibration Date: 10/14/2020 20:25  
 Instrument ID: TAC013 Calib Start Date: 07/09/2020 10:29  
 GC Column: ZB-1HT ID: 0.25 (mm) Calib End Date: 07/09/2020 13:29  
 Lab File ID: 101420\_026.D

Analyte	RT	RT WINDOW	
		FROM	TO
#2 Diesel (C10-C24)	2.91	0.94	4.87
#2 Diesel (>C12-C24)	3.25	1.63	4.87
Motor Oil (>C24-C36)	6.16	4.87	7.45
Motor Oil Range Organics (C24-C40)	6.63	4.94	8.31
o-Terphenyl	3.52	3.49	3.55

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_026.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 14-Oct-2020 20:25:58 ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: ccv  
 Operator ID: adb Instrument ID: TAC013  
 Sublist: chrom-TPH-TAC13Front\*sub15  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 15-Oct-2020 14:10:03 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1625

First Level Reviewer: limwirojt Date: 15-Oct-2020 11:59:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	2.908	(0.942-4.873)		72951259	500.0	526.2	
A 35 C10-C25	2.965	(0.942-4.988)		73755035	NC	NC	
A 55 C9-C25	3.069	(0.830-5.307)		77721426	NC	NC	
A 9 C12-C24	3.253	(1.633-4.873)		62223415	500.0	527.2	
A 25 C10-C28	3.343	(0.942-5.744)		80915180	NC	NC	
\$ 10 o-Terphenyl	3.518	3.520	-0.002	1528647	10.3	10.1	
A 14 C24-C32	5.761	(4.873-6.648)		22525194	NC	NC	
\$ 33 n-Triacontane-d62	5.974	5.985	-0.011	954420	NC	NC	M
A 15 Motor Oil	6.163	(4.873-7.452)		35245468	500.0	537.0	
A 26 C24-C36	6.163	(4.873-7.452)		35245468	NC	NC	
E 32 C25-C36	6.220	(4.988-7.452)		34441692	NC	NC	
A 52 C24-C40	6.628	(4.943-8.313)		44217386	500.0	523.3	
A 30 C28-C40	6.994	(5.744-8.243)		36134099	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

TPH-IC\*\_500\_00015 Amount Added: 1.00 Units: mL  
 MeCl2\_CT\_00185 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_026.D

Injection Date: 14-Oct-2020 20:25:58

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 25

Worklist Smp#: 25

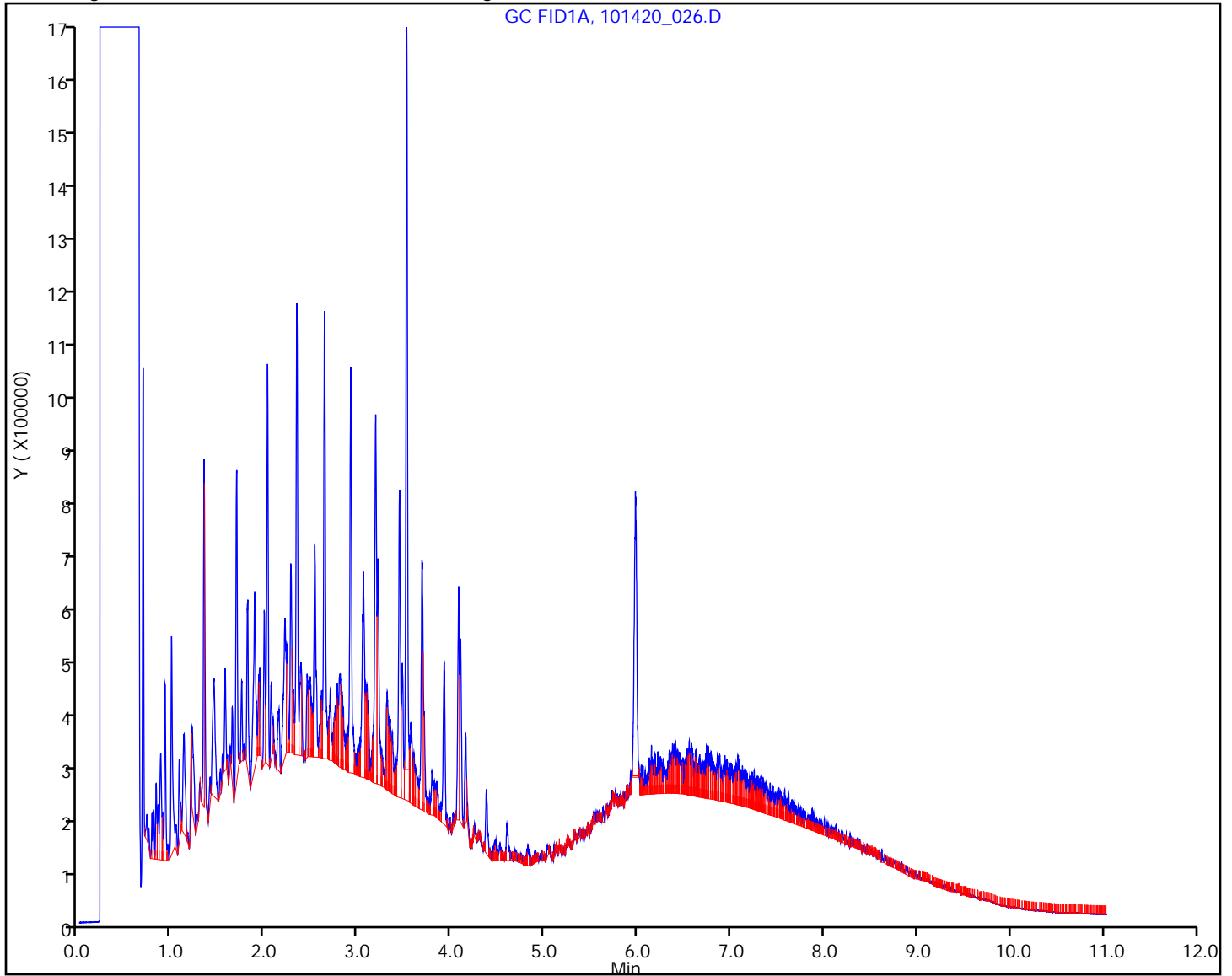
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_026.D

Injection Date: 14-Oct-2020 20:25:58

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 25

Worklist Smp#: 25

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

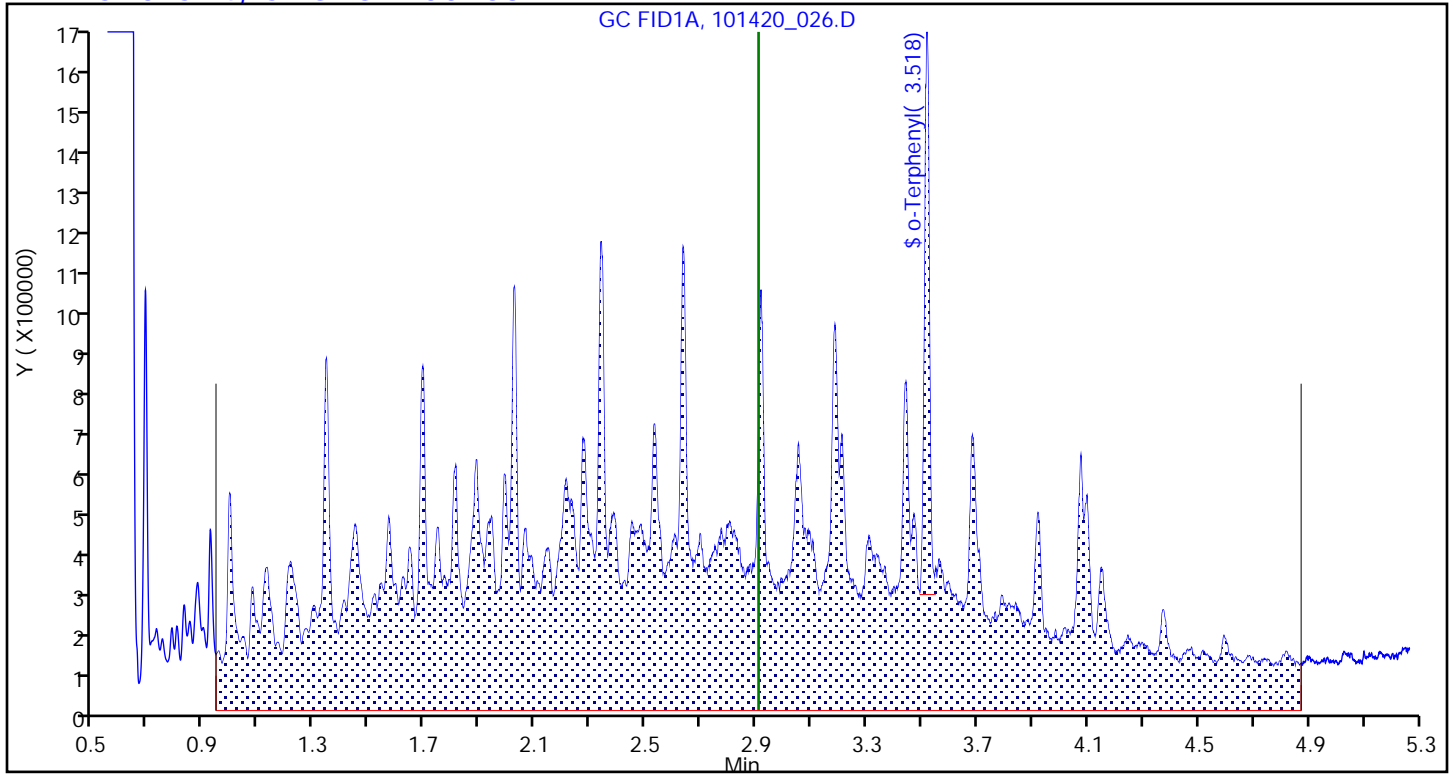
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_026.D

Injection Date: 14-Oct-2020 20:25:58

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 25

Worklist Smp#: 25

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

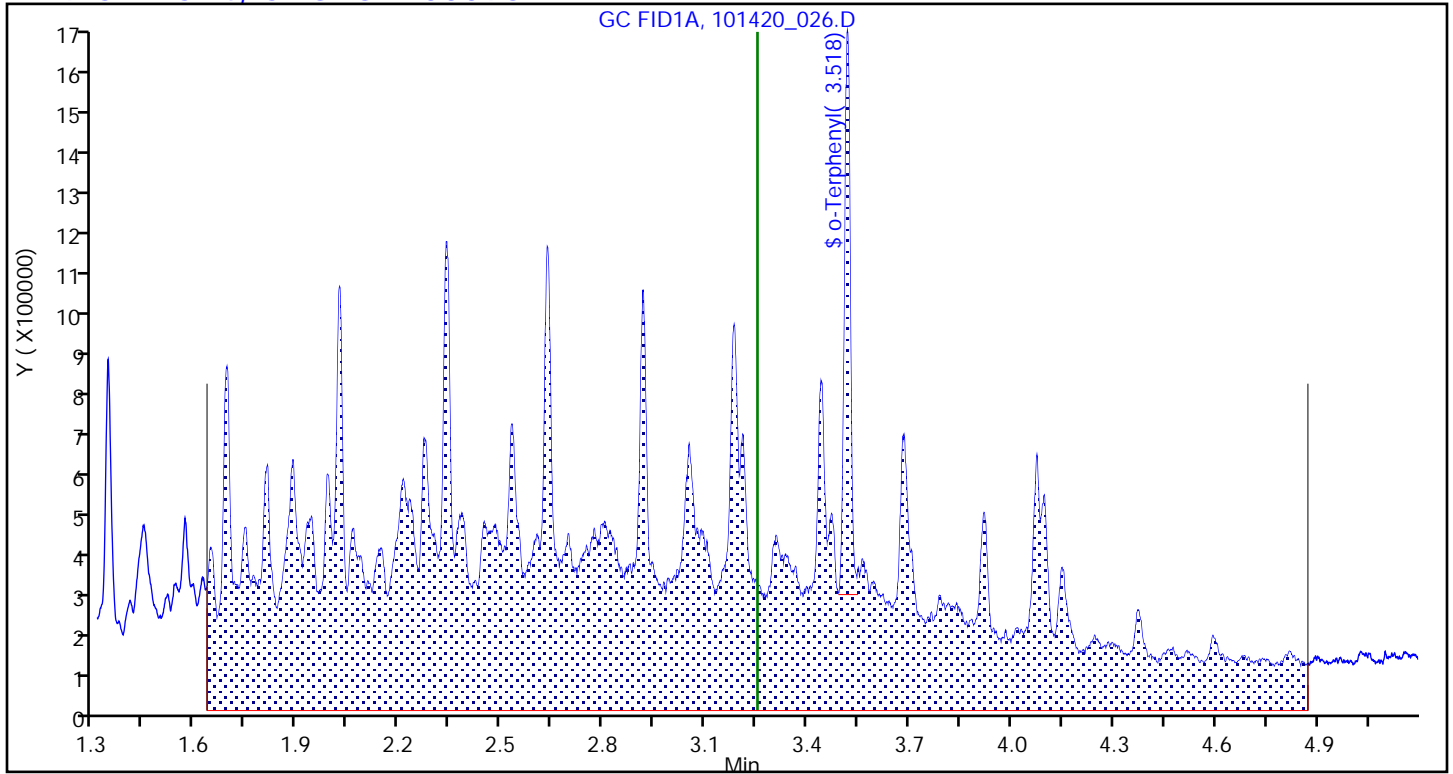
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

A 9 C12-C24, CAS: STL00096



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_026.D

Injection Date: 14-Oct-2020 20:25:58

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 25

Worklist Smp#: 25

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

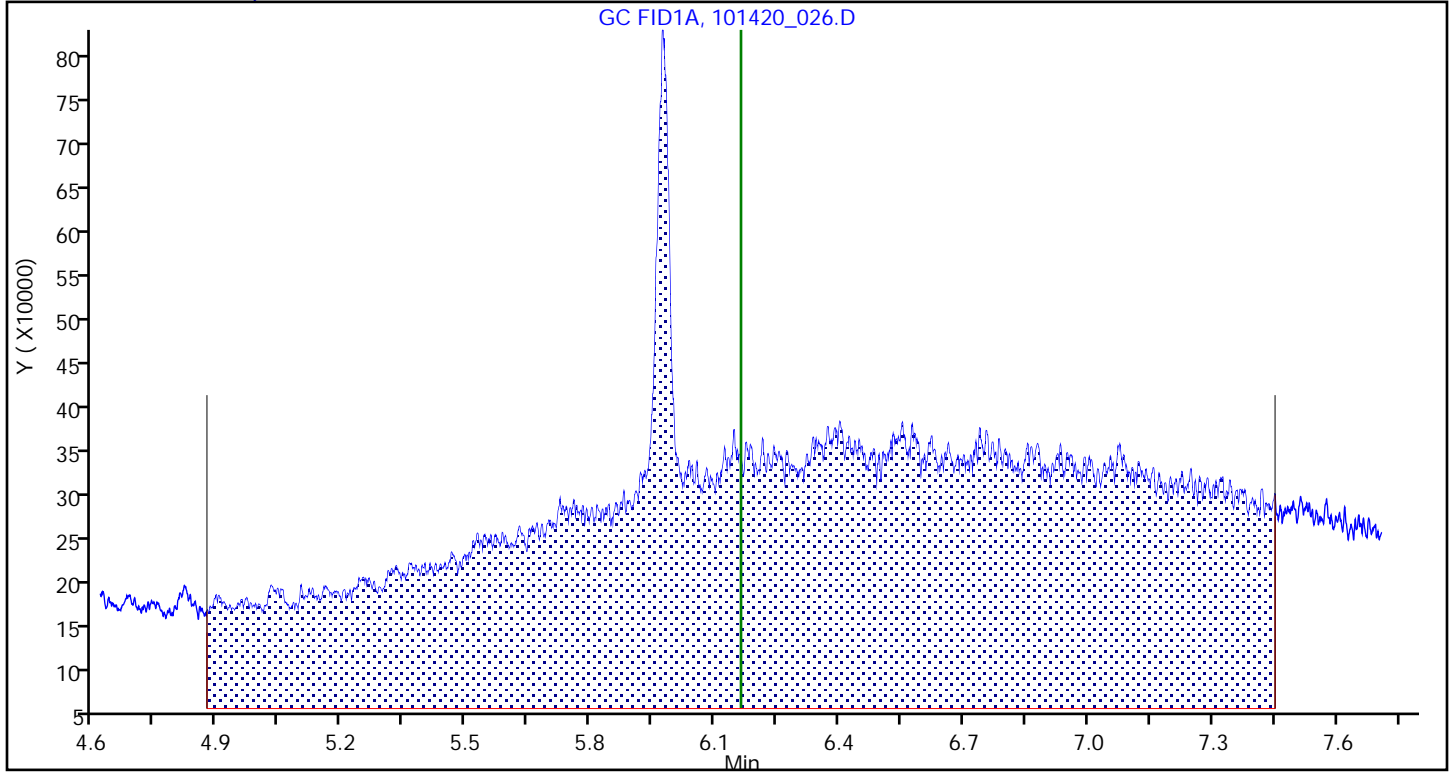
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_026.D

Injection Date: 14-Oct-2020 20:25:58

Instrument ID: TAC013

Lims ID: ccv

Client ID:

Operator ID: adb

ALS Bottle#: 25

Worklist Smp#: 25

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

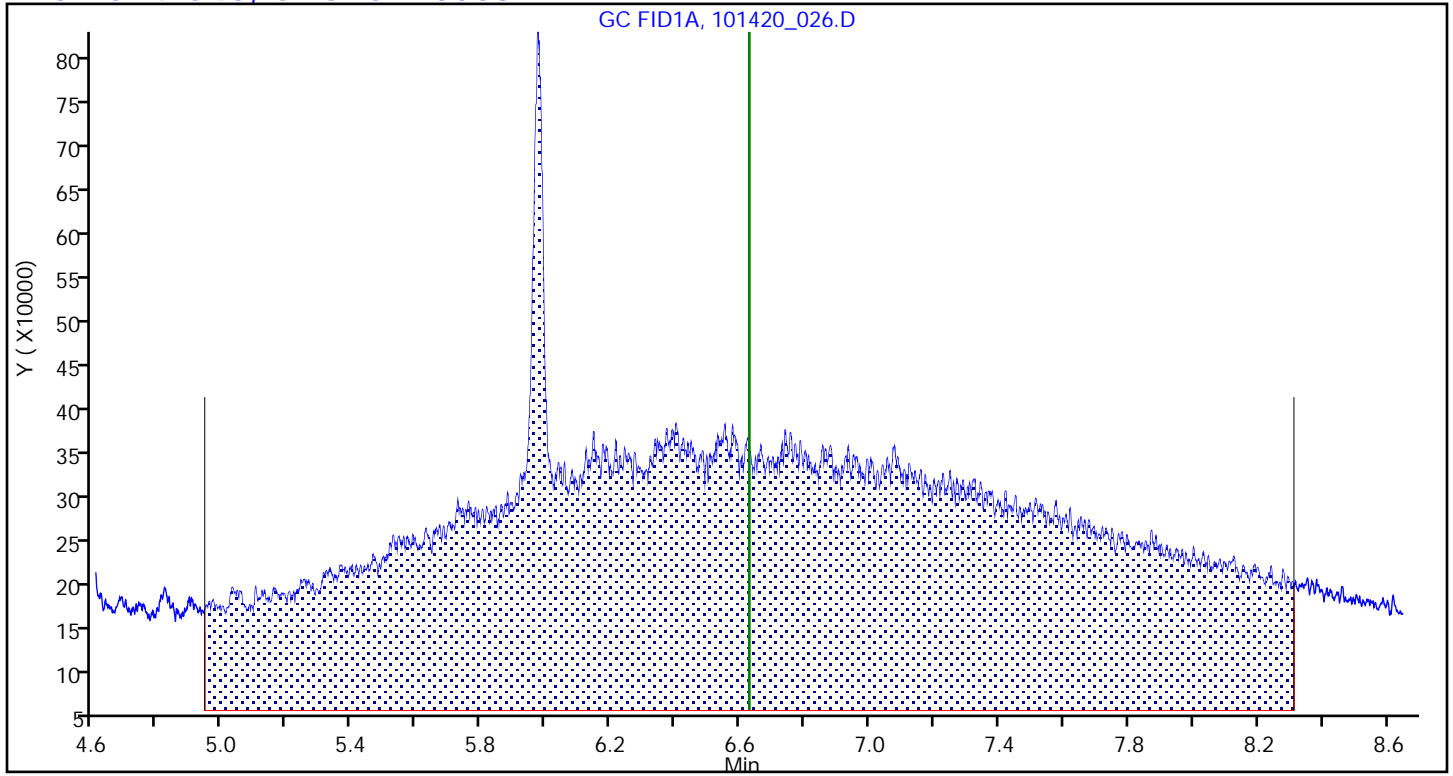
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 52 C24-C40, CAS: STL00631**



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 580-340672/1-A  
 Matrix: Solid Lab File ID: 101420\_005.D  
 Analysis Method: NWTPH-Dx Date Collected: \_\_\_\_\_  
 Extraction Method: 3546 Date Extracted: 10/13/2020 10:35  
 Sample wt/vol: 10(g) Date Analyzed: 10/14/2020 08:45  
 Con. Extract Vol.: 10(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 340757 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
STL00163	#2 Diesel (C10-C24)	ND		50	
STL00299	Motor Oil (>C24-C36)	ND		50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_005.D  
 Lims ID: MB 580-340672/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 14-Oct-2020 08:45:27 ALS Bottle#: 4 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: MB 580-340672/1-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 14-Oct-2020 14:21:59 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1635

First Level Reviewer: basiln Date: 14-Oct-2020 13:04:04

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
4 n-Octane	0.730	0.726	0.004	122147		NC	
56 n-Nonane	0.816	0.726	0.090	2004		NC	
A 3 Jet fuel	1.818	(0.683-2.954)		831147		NC	
48 C13	2.025	2.029	-0.004	75		NC	
A 2 C8-C20	2.341	(0.683-3.998)		1080373		NC	
23 C15	2.642	2.641	0.001	476		NC	
A 7 C10-C24	2.908	(0.942-4.873)		599168		3.18	
42 Hexadecane	2.914	2.924	-0.010	506		NC	
A 35 C10-C25	2.965	(0.942-4.988)		614942		NC	
A 55 C9-C25	3.069	(0.830-5.307)		672630		NC	
A 9 C12-C24	3.253	(1.633-4.873)		536407		3.42	
A 25 C10-C28	3.343	(0.942-5.744)		727711		NC	
\$ 54 n-Decanoic Acid (Surr)	3.409	3.410	-0.001	104		NC	
40 n-Octadecane	3.441	3.451	-0.010	186		NC	
\$ 10 o-Terphenyl	3.519	3.520	-0.001	1124546	10.3	7.44	
37 C19	3.709	3.693	0.016	3425		NC	
12 icosane	3.932	3.932	0.000	418		NC	
A 8 Mineral oil	4.351	(1.633-7.069)		964562		NC	
34 C25	5.072	5.067	0.005	64		NC	
27 n-Octacosane	5.710	5.714	-0.004	79		NC	
A 14 C24-C32	5.761	(4.873-6.648)		327814		NC	
\$ 33 n-Triacontane-d62	5.979	5.985	-0.006	771298	NC	NC	M
A 15 Motor Oil	6.163	(4.873-7.452)		544828		6.91	
A 26 C24-C36	6.163	(4.873-7.452)		544828		NC	
E 32 C25-C36	6.220	(4.988-7.452)		529054		NC	
31 Dotriacontane	6.550	6.556	-0.006	259		NC	
A 52 C24-C40	6.628	(4.943-8.313)		891256		8.76	
45 Tetratriacontane	6.964	6.967	-0.003	34		NC	
A 30 C28-C40	6.994	(5.744-8.243)		739842		NC	
17 C38	7.775	7.777	-0.002	51		NC	
24 C40	8.156	8.163	-0.007	3928		NC	

[QC Flag Legend](#)

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

[Reagents:](#)

MeCl2\_CT\_00185

Amount Added: 1.00

Units: mL

Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_005.D

Injection Date: 14-Oct-2020 08:45:27

Instrument ID: TAC013

Lims ID: MB 580-340672/1-A

Client ID:

Operator ID: adb

ALS Bottle#: 4

Worklist Smp#: 4

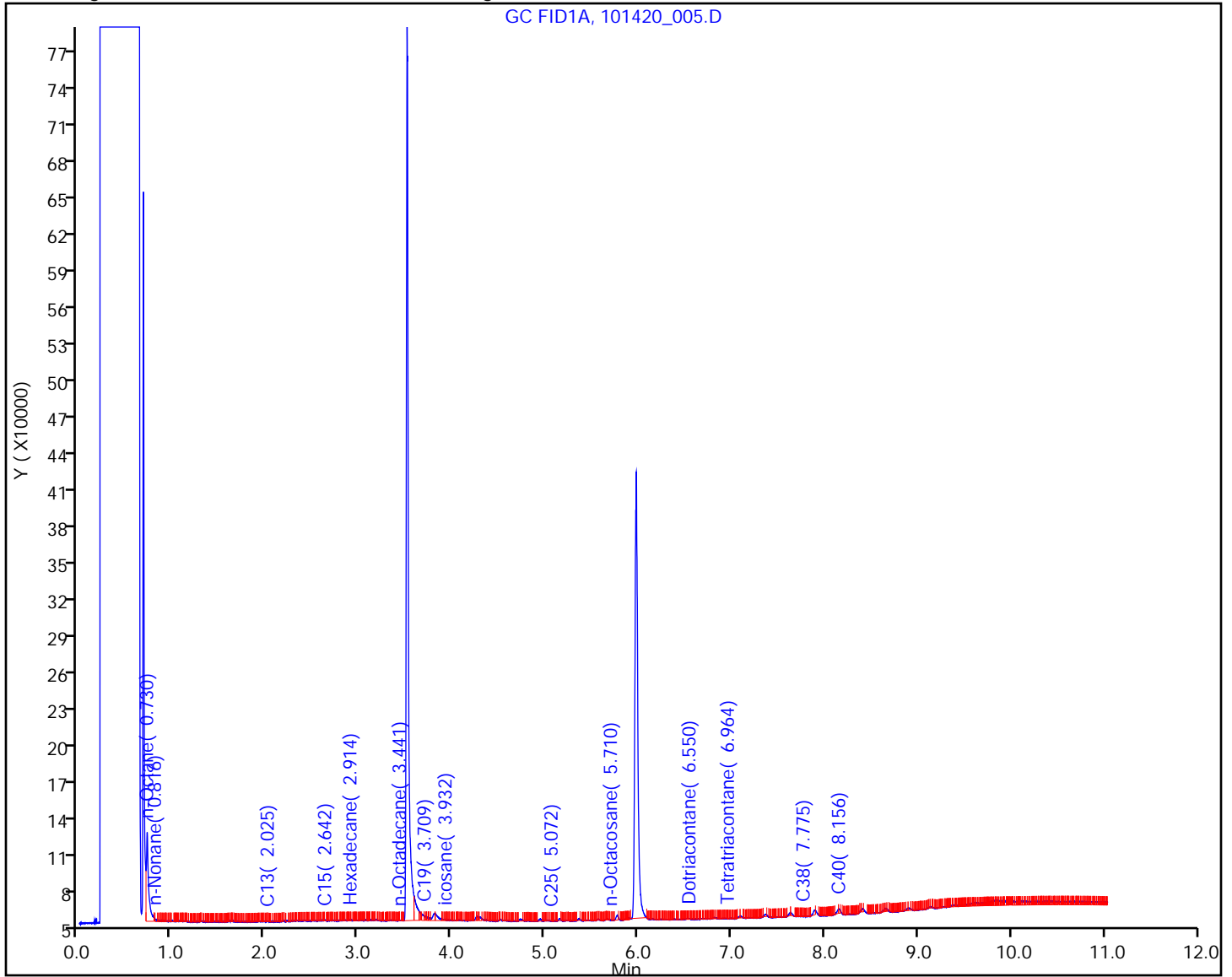
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1





Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_005.D  
 Lims ID: MB 580-340672/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 14-Oct-2020 08:45:27 ALS Bottle#: 4 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: MB 580-340672/1-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 14-Oct-2020 14:21:59 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1635

First Level Reviewer: basiln Date: 14-Oct-2020 13:04:04

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 n-Decanoic Acid (Surr)	0	0	0.00
\$ 10 o-Terphenyl	10.3	7.44	72.43

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_005.D

Injection Date: 14-Oct-2020 08:45:27

Instrument ID: TAC013

Lims ID: MB 580-340672/1-A

Client ID:

Operator ID: adb

ALS Bottle#: 4

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

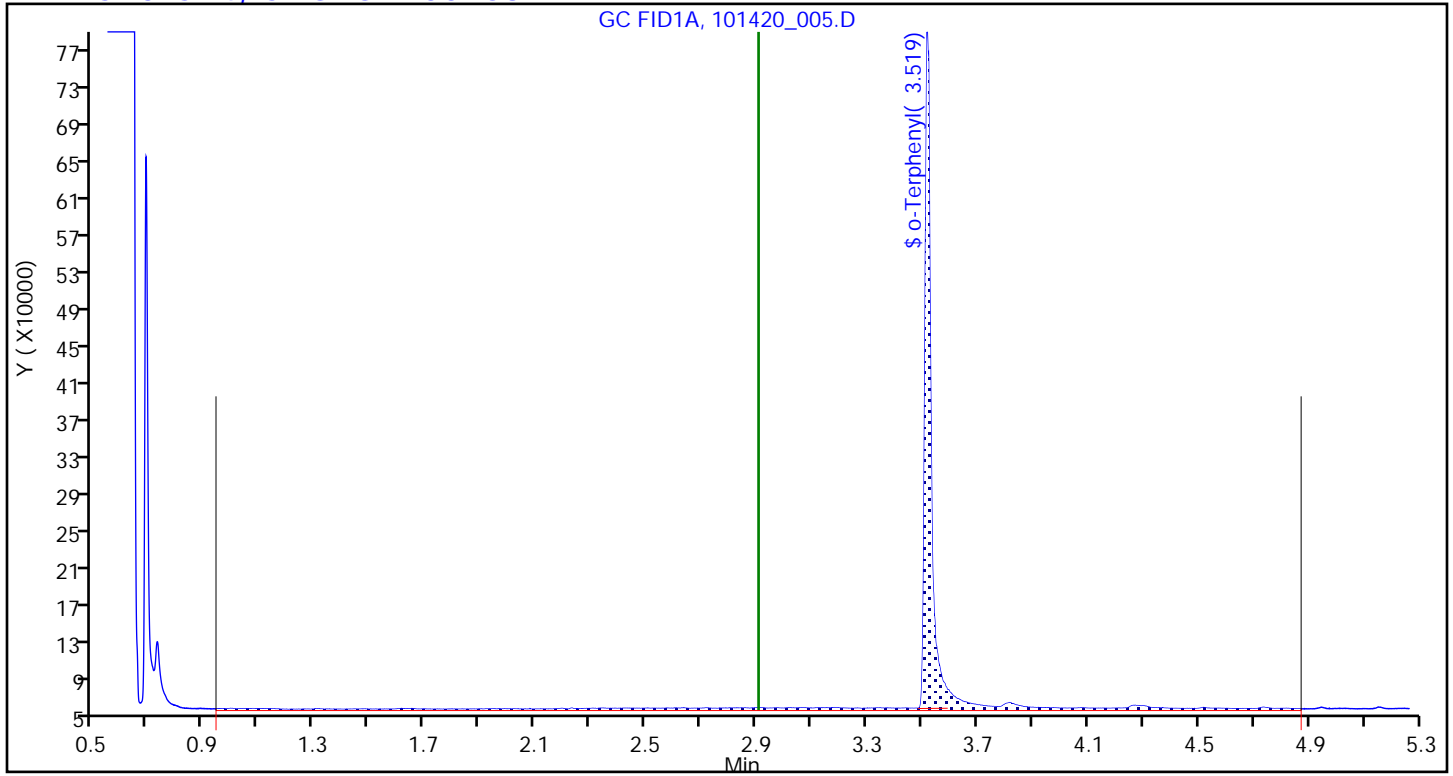
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

A 7 C10-C24, CAS: STL00163



Report Date: 14-Oct-2020 14:22:06

Chrom Revision: 2.3 24-Sep-2020 19:22:38

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_005.D

Injection Date: 14-Oct-2020 08:45:27

Instrument ID: TAC013

Lims ID: MB 580-340672/1-A

Client ID:

Operator ID: adb

ALS Bottle#: 4

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

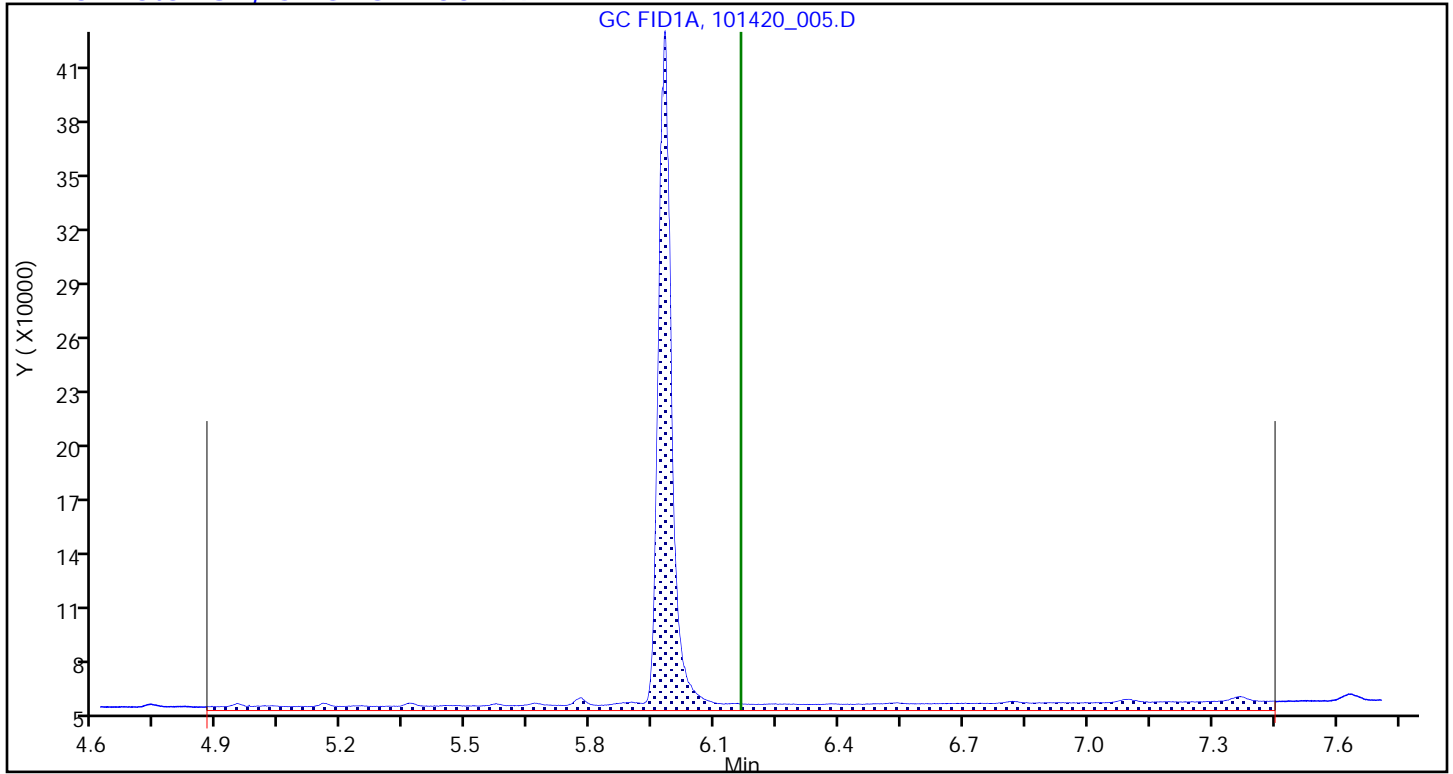
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 580-340672/2-A  
 Matrix: Solid Lab File ID: 101420\_006.D  
 Analysis Method: NWTPH-Dx Date Collected: \_\_\_\_\_  
 Extraction Method: 3546 Date Extracted: 10/13/2020 10:35  
 Sample wt/vol: 10(g) Date Analyzed: 10/14/2020 09:05  
 Con. Extract Vol.: 10(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 340757 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
STL00163	#2 Diesel (C10-C24)	414		50	
STL00299	Motor Oil (>C24-C36)	419		50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_006.D  
 Lims ID: LCS 580-340672/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 14-Oct-2020 09:05:18 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: LCS 580-340672/2-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 14-Oct-2020 14:21:59 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1635

First Level Reviewer: basiln Date: 14-Oct-2020 13:04:10

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	2.908	(0.942-4.873)		57495679	500.0	414.5	
A 35 C10-C25	2.965	(0.942-4.988)		58124984	NC	NC	
A 55 C9-C25	3.069	(0.830-5.307)		61233045	NC	NC	
A 9 C12-C24	3.253	(1.633-4.873)		49023090	500.0	415.1	
A 25 C10-C28	3.343	(0.942-5.744)		63730383	NC	NC	
\$ 10 o-Terphenyl	3.520	3.520	0.000	1261371	10.3	8.34	
A 14 C24-C32	5.761	(4.873-6.648)		17763329	NC	NC	
\$ 33 n-Triacontane-d62	5.984	5.985	-0.001	810172	NC	NC	
A 15 Motor Oil	6.163	(4.873-7.452)		27545956	500.0	419.4	
A 26 C24-C36	6.163	(4.873-7.452)		27545956	NC	NC	
E 32 C25-C36	6.220	(4.988-7.452)		27726824	NC	NC	
A 52 C24-C40	6.628	(4.943-8.313)		34269367	500.0	405.2	
A 30 C28-C40	6.994	(5.744-8.243)		27946717	NC	NC	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

MeCl2\_CT\_00185 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_006.D

Injection Date: 14-Oct-2020 09:05:18

Instrument ID: TAC013

Lims ID: LCS 580-340672/2-A

Client ID:

Operator ID: adb

ALS Bottle#: 5

Worklist Smp#: 5

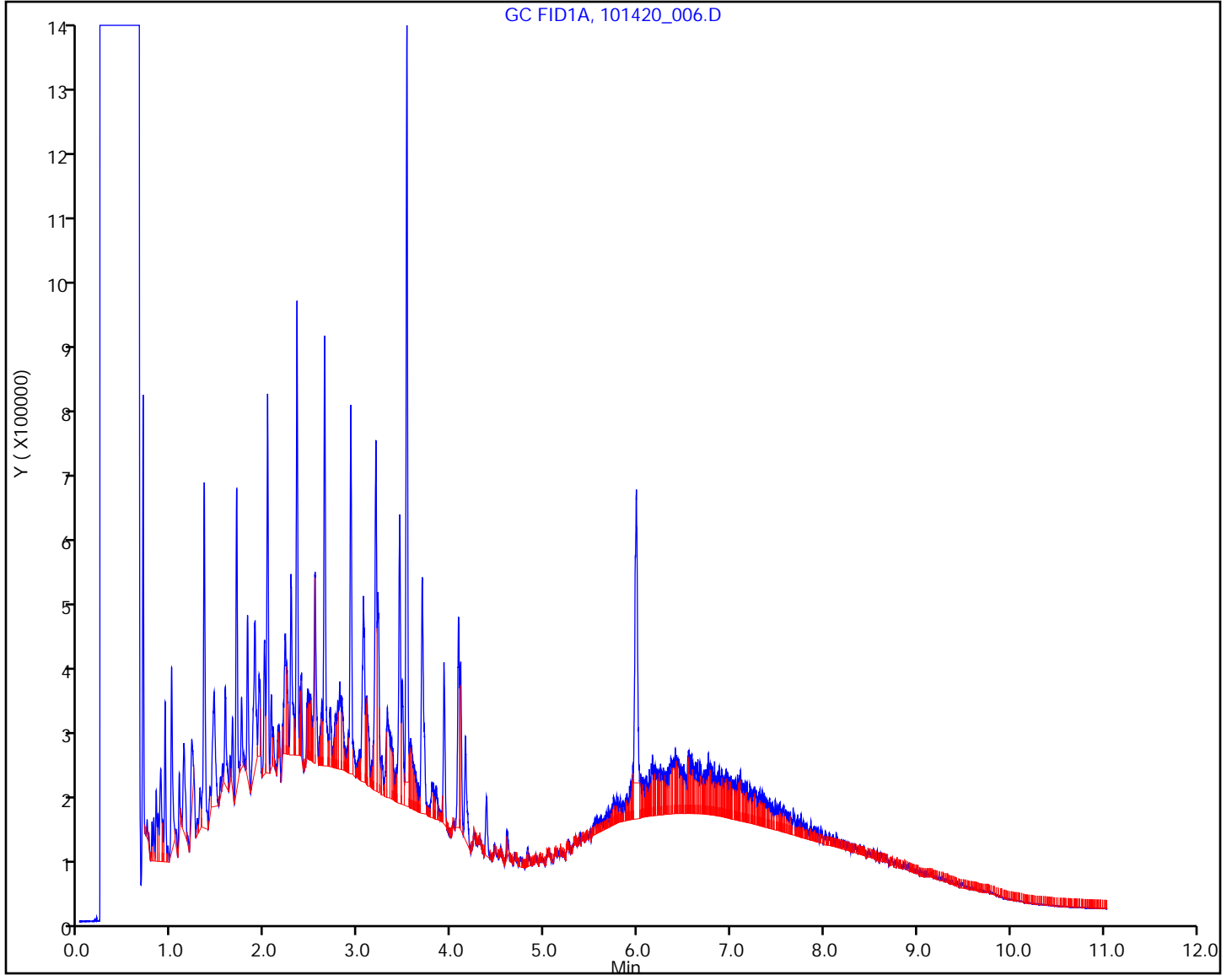
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_006.D  
 Lims ID: LCS 580-340672/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 14-Oct-2020 09:05:18 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: LCS 580-340672/2-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 14-Oct-2020 14:21:59 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1635

First Level Reviewer: basiln Date: 14-Oct-2020 13:04:10

Compound	Amount Added	Amount Recovered	% Rec.
\$ 10 o-Terphenyl	10.3	8.34	81.24

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_006.D

Injection Date: 14-Oct-2020 09:05:18

Instrument ID: TAC013

Lims ID: LCS 580-340672/2-A

Client ID:

Operator ID: adb

ALS Bottle#: 5

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

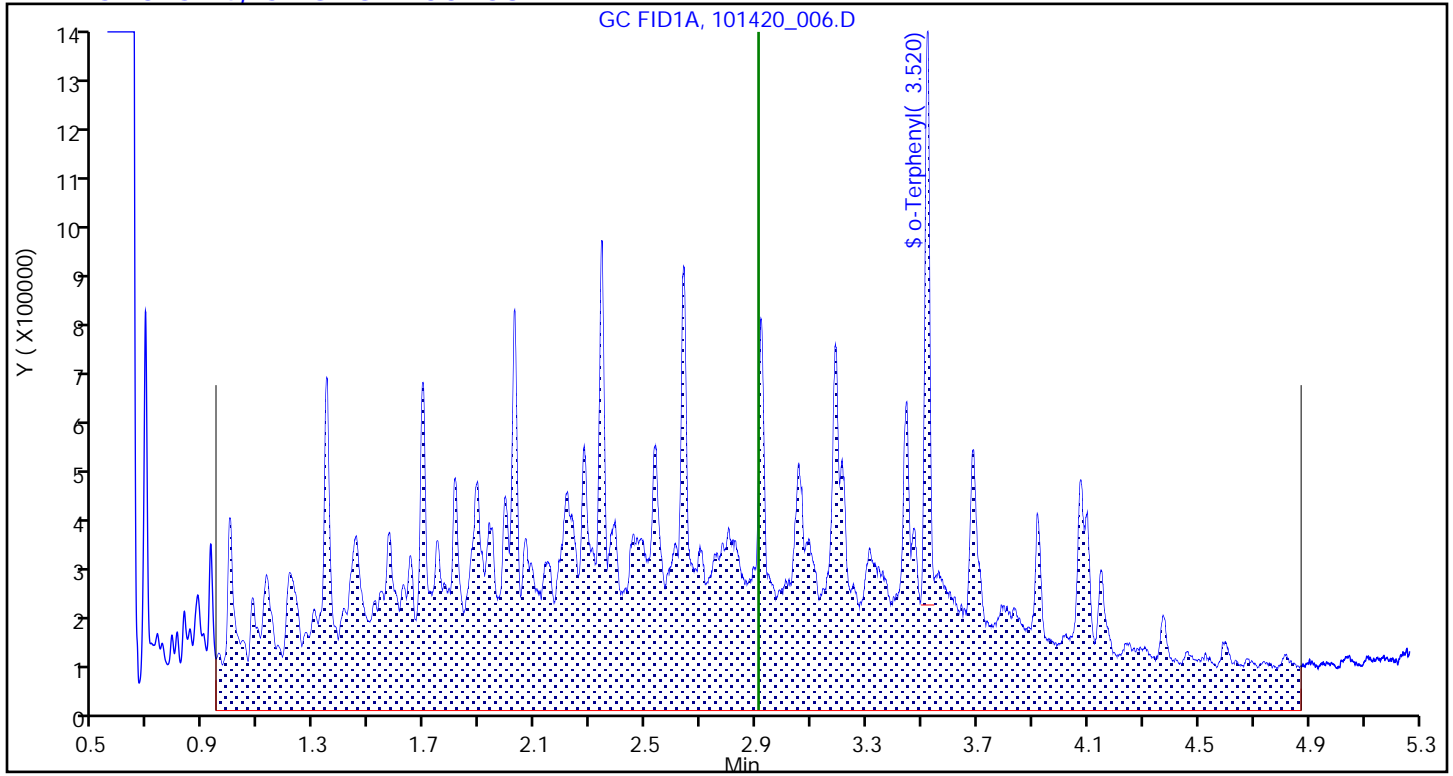
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**





Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_006.D

Injection Date: 14-Oct-2020 09:05:18

Instrument ID: TAC013

Lims ID: LCS 580-340672/2-A

Client ID:

Operator ID: adb

ALS Bottle#: 5

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

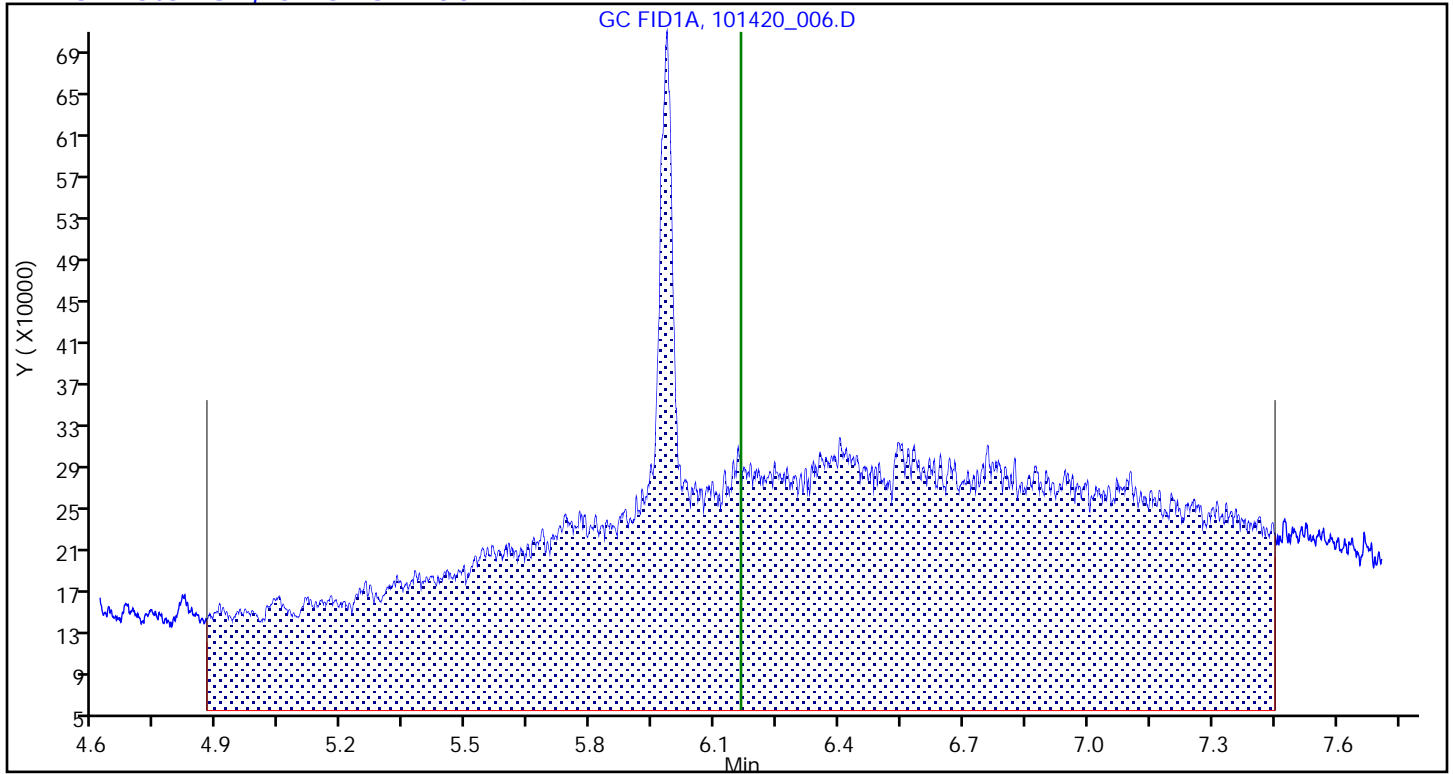
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



FORM I  
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 580-340672/3-A  
 Matrix: Solid Lab File ID: 101420\_007.D  
 Analysis Method: NWTPH-Dx Date Collected: \_\_\_\_\_  
 Extraction Method: 3546 Date Extracted: 10/13/2020 10:35  
 Sample wt/vol: 10(g) Date Analyzed: 10/14/2020 09:25  
 Con. Extract Vol.: 10(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) GC Column: ZB-1HT ID: 0.25(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 340757 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
STL00163	#2 Diesel (C10-C24)	407		50	
STL00299	Motor Oil (>C24-C36)	407		50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		50-150

Eurofins TestAmerica, Seattle  
Target Compound Quantitation Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_007.D  
 Lims ID: LCSD 580-340672/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 14-Oct-2020 09:25:05 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: LCSD 580-340672/3-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 14-Oct-2020 14:21:59 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1635

First Level Reviewer: basiln Date: 14-Oct-2020 13:04:22

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
A 7 C10-C24	2.908	(0.942-4.873)		56509373	500.0	407.4	
A 35 C10-C25	2.965	(0.942-4.988)		57121107	NC	NC	
A 55 C9-C25	3.069	(0.830-5.307)		60163715	NC	NC	
A 9 C12-C24	3.253	(1.633-4.873)		48189926	500.0	408.1	
A 25 C10-C28	3.343	(0.942-5.744)		62563733	NC	NC	
\$ 10 o-Terphenyl	3.519	3.520	-0.001	1271778	10.3	8.41	
A 14 C24-C32	5.761	(4.873-6.648)		17229708	NC	NC	
\$ 33 n-Triacontane-d62	5.986	5.985	0.001	771258	NC	NC	M
A 15 Motor Oil	6.163	(4.873-7.452)		26732793	500.0	407.0	
A 26 C24-C36	6.163	(4.873-7.452)		26732793	NC	NC	
E 32 C25-C36	6.220	(4.988-7.452)		26121059	NC	NC	
A 52 C24-C40	6.628	(4.943-8.313)		33282721	500.0	393.4	
A 30 C28-C40	6.994	(5.744-8.243)		27143526	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

MeCl2\_CT\_00185 Amount Added: 1.00 Units: mL Run Reagent

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_007.D

Injection Date: 14-Oct-2020 09:25:05

Instrument ID: TAC013

Lims ID: LCSD 580-340672/3-A

Client ID:

Operator ID: adb

ALS Bottle#: 6

Worklist Smp#: 6

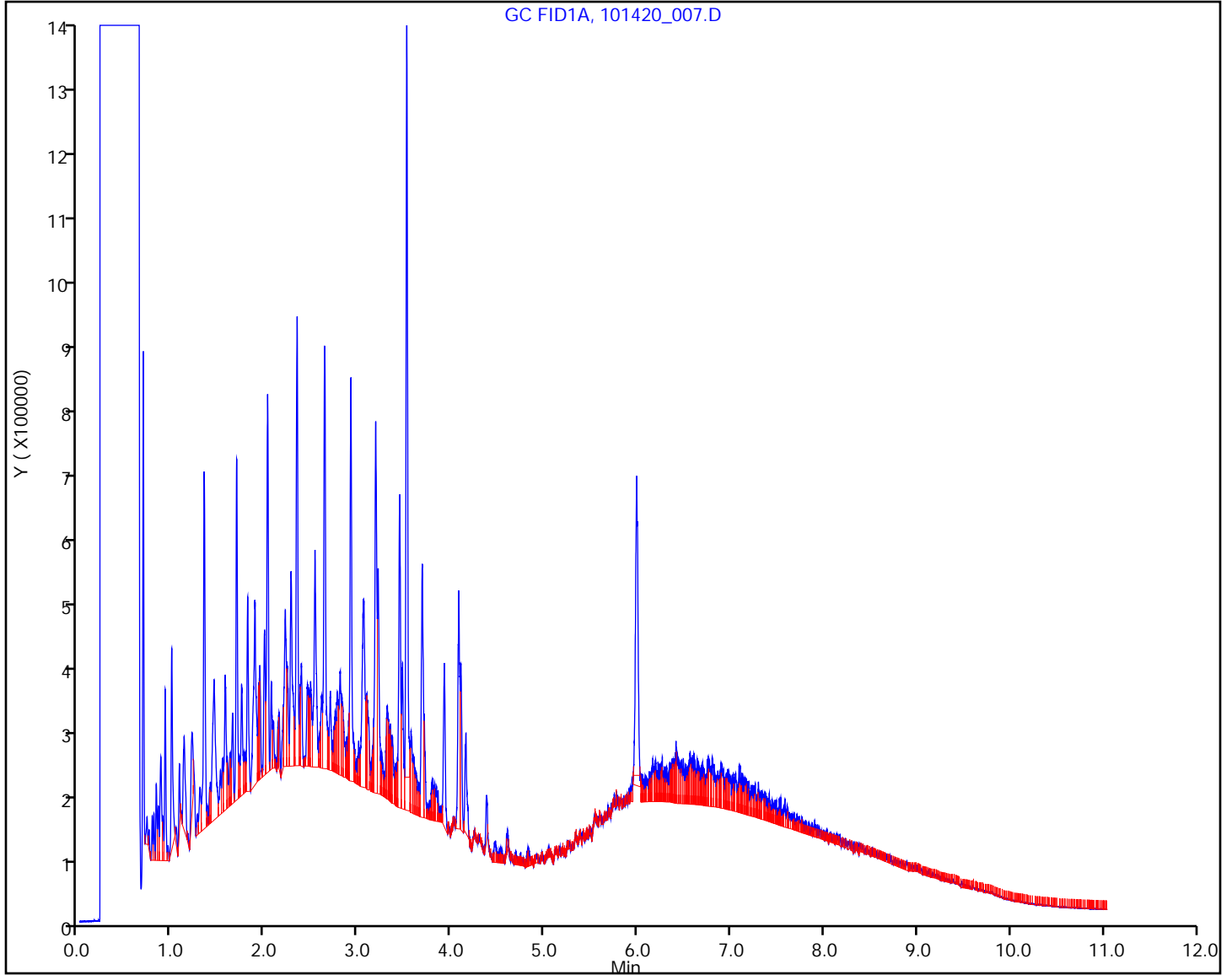
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Eurofins TestAmerica, Seattle  
Recovery Report

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_007.D  
 Lims ID: LCSD 580-340672/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 14-Oct-2020 09:25:05 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: LCSD 580-340672/3-A  
 Operator ID: adb Instrument ID: TAC013  
 Method: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\TPH-TAC13Front.m  
 Limit Group: NWTPH-DX Standard list  
 Last Update: 14-Oct-2020 14:21:59 Calib Date: 09-Jul-2020 13:29:41  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Seattle\ChromData\TAC013\20200709-71645.b\070920a\_012.D  
 Column 1 : Det: GC FID1A  
 Process Host: CTX1635

First Level Reviewer: basiln Date: 14-Oct-2020 13:04:22

Compound	Amount Added	Amount Recovered	% Rec.
\$ 10 o-Terphenyl	10.3	8.41	81.91

Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_007.D

Injection Date: 14-Oct-2020 09:25:05

Instrument ID: TAC013

Lims ID: LCSD 580-340672/3-A

Client ID:

Operator ID: adb

ALS Bottle#: 6

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

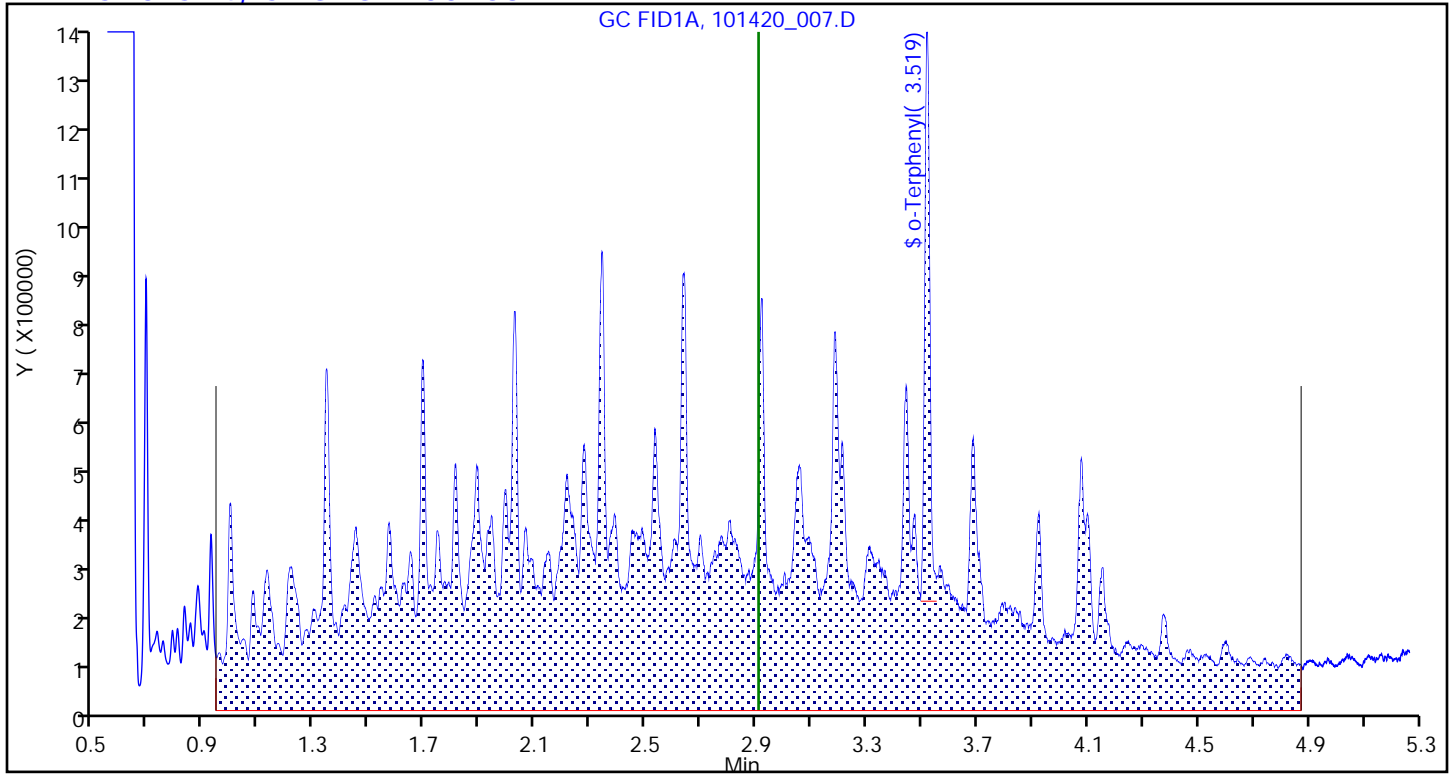
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 7 C10-C24, CAS: STL00163**



Eurofins TestAmerica, Seattle

Data File: \\chromfs\Seattle\ChromData\TAC013\20201014-73363.b\101420\_007.D

Injection Date: 14-Oct-2020 09:25:05

Instrument ID: TAC013

Lims ID: LCSD 580-340672/3-A

Client ID:

Operator ID: adb

ALS Bottle#: 6

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

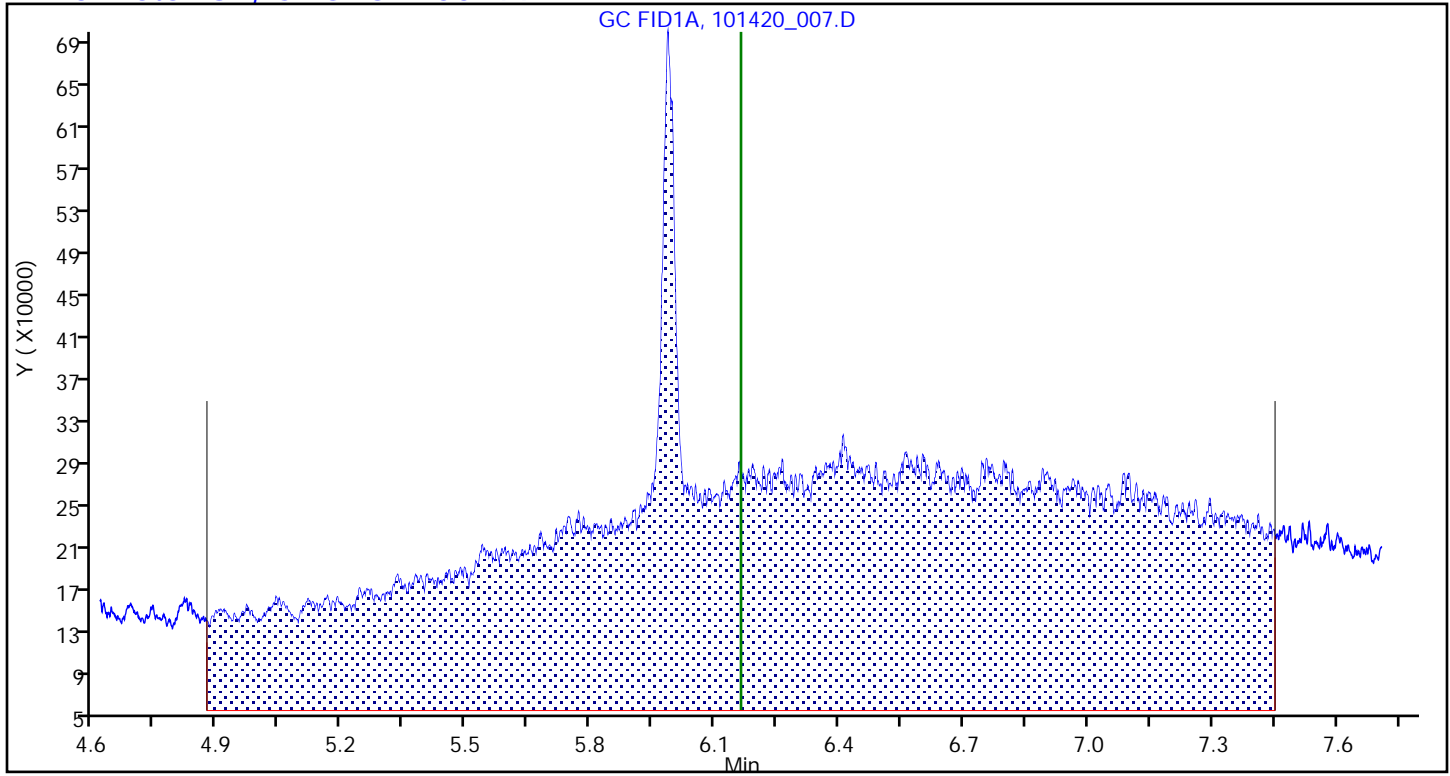
Method: TPH-TAC13Front

Limit Group: NWTPH-DX Standard list

Column:

Detector GC FID1A

**A 15 Motor Oil, CAS: STL00299**



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC013 Start Date: 07/09/2020 10:09

Analysis Batch Number: 332639 End Date: 07/09/2020 21:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-332639/2		07/09/2020 10:09	1		ZB-1HT 0.25 (mm)
IC 580-332639/3		07/09/2020 10:29	1	070920a_003.D	ZB-1HT 0.25 (mm)
IC 580-332639/4		07/09/2020 10:49	1	070920a_004.D	ZB-1HT 0.25 (mm)
IC 580-332639/5		07/09/2020 11:09	1	070920a_005.D	ZB-1HT 0.25 (mm)
IC 580-332639/6		07/09/2020 11:29	1	070920a_006.D	ZB-1HT 0.25 (mm)
ICRT 580-332639/7		07/09/2020 11:49	1	070920a_007.D	ZB-1HT 0.25 (mm)
IC 580-332639/8		07/09/2020 12:09	1	070920a_008.D	ZB-1HT 0.25 (mm)
IC 580-332639/9		07/09/2020 12:29	1	070920a_009.D	ZB-1HT 0.25 (mm)
IC 580-332639/10		07/09/2020 12:49	1	070920a_010.D	ZB-1HT 0.25 (mm)
IC 580-332639/11		07/09/2020 13:09	1	070920a_011.D	ZB-1HT 0.25 (mm)
IC 580-332639/12		07/09/2020 13:29	1	070920a_012.D	ZB-1HT 0.25 (mm)
ICV 580-332639/13		07/09/2020 13:49	1	070920a_013.D	ZB-1HT 0.25 (mm)
ZZZZZ		07/09/2020 14:10	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/09/2020 14:30	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/09/2020 14:50	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/09/2020 15:10	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/09/2020 15:31	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/09/2020 15:51	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/09/2020 16:11	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/09/2020 16:31	1		ZB-1HT 0.25 (mm)
CCV 580-332639/24		07/09/2020 17:32	1		ZB-1HT 0.25 (mm)
ZZZZZ		07/09/2020 19:54	5		ZB-1HT 0.25 (mm)
CCV 580-332639/35		07/09/2020 21:15	1		ZB-1HT 0.25 (mm)



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: TAC013 Start Date: 10/14/2020 08:06

Analysis Batch Number: 340757 End Date: 10/15/2020 04:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
RTC 580-340757/2		10/14/2020 08:06	1	101420_003.D	ZB-1HT 0.25 (mm)
CCVRT 580-340757/3		10/14/2020 08:25	1	101420_004.D	ZB-1HT 0.25 (mm)
MB 580-340672/1-A		10/14/2020 08:45	1	101420_005.D	ZB-1HT 0.25 (mm)
LCS 580-340672/2-A		10/14/2020 09:05	1	101420_006.D	ZB-1HT 0.25 (mm)
LCSD 580-340672/3-A		10/14/2020 09:25	1	101420_007.D	ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 09:45	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 10:05	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 10:25	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 10:45	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 11:04	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 11:24	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 11:44	1		ZB-1HT 0.25 (mm)
CCV 580-340757/14		10/14/2020 12:04	1	101420_035a.D	ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 12:24	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 12:44	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 13:24	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 13:44	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 14:04	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 15:06	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 15:26	1		ZB-1HT 0.25 (mm)
CCV 580-340757/73		10/14/2020 15:46	1	101420_052b.D	ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 16:06	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 16:26	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 16:46	20		ZB-1HT 0.25 (mm)
580-98033-1	AB-01B-15.5	10/14/2020 17:06	1	101420_017.D	ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 17:26	1		ZB-1HT 0.25 (mm)
580-98033-2	AB-02B-16.5	10/14/2020 18:06	1	101420_018.D	ZB-1HT 0.25 (mm)
CCV 580-340757/78		10/14/2020 18:26	1	101420_018a.D	ZB-1HT 0.25 (mm)
580-98033-3	AB-03B-16.5	10/14/2020 18:46	1	101420_019.D	ZB-1HT 0.25 (mm)
580-98033-4	AB-04B-16.5	10/14/2020 19:06	1	101420_020.D	ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 19:26	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 19:46	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 20:06	1		ZB-1HT 0.25 (mm)
CCV 580-340757/25		10/14/2020 20:25	1	101420_026.D	ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 20:45	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 21:05	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 21:25	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 21:45	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 22:05	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 22:25	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 22:45	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 23:05	1		ZB-1HT 0.25 (mm)
ZZZZZ		10/14/2020 23:25	1		ZB-1HT 0.25 (mm)
CCV 580-340757/36		10/14/2020 23:44	1		ZB-1HT 0.25 (mm)
CCV 580-340757/58		10/15/2020 04:03	1		ZB-1HT 0.25 (mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Batch Number: 340672 Batch Start Date: 10/13/20 10:35 Batch Analyst: Hamilton, Colton C

Batch Method: 3546 Batch End Date: 10/13/20 17:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TPH Spike_RZ 00106	TPH_SURR 00051		
MB 580-340672/1		3546, NWTPH-Dx		10 g	10 mL		100 uL		
LCS 580-340672/2		3546, NWTPH-Dx		10 g	10 mL	100 uL	100 uL		
LCS 580-340672/3		3546, NWTPH-Dx		10 g	10 mL	100 uL	100 uL		
580-98033-D-1	AB-01B-15.5	3546, NWTPH-Dx	T	10.030 g	10 mL		100 uL		
580-98033-D-2	AB-02B-16.5	3546, NWTPH-Dx	T	10.330 g	10 mL		100 uL		
580-98033-D-3	AB-03B-16.5	3546, NWTPH-Dx	T	10.114 g	10 mL		100 uL		
580-98033-D-4	AB-04B-16.5	3546, NWTPH-Dx	T	10.595 g	10 mL		100 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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Batch Number: 340672 Batch Start Date: 10/13/20 10:35 Batch Analyst: Hamilton, Colton C

Batch Method: 3546 Batch End Date: 10/13/20 17:45

Batch Notes	
Balance ID	SEA232
Batch Comment	hydromatrix: 2587988 viald by: RL
Blank Matrix ID	2710703
Analyst ID - Concentration	RL
Concentration 1 Corrected Temperature	69.9-74.9 Degrees C
Equipment ID - Concentration 1	Steambath 1
Analyst ID - Extraction	CH
Filter ID	2707788
Method/Fraction	3546 NWTPH_Dx
Microwave Oven ID	Mars 2
Microwave Program ID	Fuels 01 X-Press
Na2SO4 ID	2681383
Pipette/Syringe/Dispenser ID	MP4
Prep Solvent ID	2724164
Analyst ID - Spike Analyst	CH
Sufficient Volume for Batch QC	YES
Thermometer ID - Concentration 1	661200
Concentration 1 Uncorrected Temperature	70-75 Degrees C
Vial Lot Number	24152426

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.

# GENERAL CHEMISTRY

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle

Job Number: 580-98033-1

SDG No.: \_\_\_\_\_

Project: New City Cleaners

Client Sample ID

AB-01B-15.5

AB-02B-16.5

AB-03B-16.5

AB-04B-16.5

Lab Sample ID

580-98033-1

580-98033-2

580-98033-3

580-98033-4

Comments:

\_\_\_\_\_

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job Number: 580-98033-1  
SDG Number: \_\_\_\_\_  
Matrix: Solid Instrument ID: NOEQUIP  
Method: 2540G RL Date: 01/01/2005 13:13

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN  
 ANALYSIS RUN LOG  
 GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: NOEQUIP Analysis Method: 2540G

Start Date: 10/08/2020 19:01 End Date: 10/08/2020 21:07

Lab Sample Id	D/F	Type	Time	Analytes																	
				% Sol	M o i s t																
ZZZZZZ			19:01																		
ZZZZZZ			19:01																		
ZZZZZZ			19:01																		
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13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: NOEQUIP Analysis Method: 2540G

Start Date: 10/08/2020 19:01 End Date: 10/08/2020 21:07

Lab Sample Id	D/F	Type	Time	Analytes																												
				% Sol	M o i s t																											
ZZZZZZ			19:01																													
ZZZZZZ			19:01																													
ZZZZZZ			19:01																													
ZZZZZZ			19:01																													
ZZZZZZ			19:01																													
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13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Instrument ID: NOEQUIP Analysis Method: 2540G

Start Date: 10/08/2020 19:01 End Date: 10/08/2020 21:07

Lab Sample Id	D/F	Type	Time	Analytes																													
				% S	M o i s t																												
ZZZZZZ			19:01																														
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ZZZZZZ			19:59																														
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580-98033-1		1 T	19:59	X	X																												
580-98033-2		1 T	19:59	X	X																												
580-98033-3		1 T	19:59	X	X																												
580-98033-4		1 T	19:59	X	X																												
ZZZZZZ			19:59																														
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ZZZZZZ			19:59																														
ZZZZZZ			21:07																														

Prep Types: \_\_\_\_\_  
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Seattle Job No.: 580-98033-1

SDG No.: \_\_\_\_\_

Batch Number: 340427 Batch Start Date: 10/08/20 19:01 Batch Analyst: Hamilton, Colton C

Batch Method: 2540G Batch End Date: 10/09/20 10:13

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
580-98033-D-1	AB-01B-15.5	2540G	T	0.810 g	11.376 g	9.028 g			
580-98033-D-2	AB-02B-16.5	2540G	T	0.799 g	9.082 g	7.199 g			
580-98033-D-3	AB-03B-16.5	2540G	T	0.803 g	9.446 g	7.437 g			
580-98033-D-4	AB-04B-16.5	2540G	T	0.814 g	8.832 g	6.883 g			

Batch Notes	
Balance ID	SEA232
Date samples were placed in the oven	10/08/2020
Oven Temp In	112.1 Degrees C
Time samples were place in the oven	21:16
Date samples were removed from oven	10/09/2020
Oven Temp Out	114.2 Degrees C
Time Samples were removed from oven	09:32
Oven ID	Oven 2
Thermometer ID	digital readout
Temperature - Start - Uncorrected	110.2 Degrees C
Temperature - End - Uncorrected	112.3 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.

# General Chemistry Raw Data Report

Job ID: 580-98033-1

**Batch: 340427**  
**Method: 2540G**

**Analyst Initials: CCH**  
**Instrument: NONE**

**Lab Sample ID: 580-98033-D-1**

**Analysis Date: Oct 08, 2020 19:59**

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	77.7777777777778	%
Percent Moisture	None	1	22.2222222222222	%

**Lab Sample ID: 580-98033-D-2**

**Analysis Date: Oct 08, 2020 19:59**

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	77.2666908125076	%
Percent Moisture	None	1	22.7333091874924	%

**Lab Sample ID: 580-98033-D-3**

**Analysis Date: Oct 08, 2020 19:59**

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	76.7557561032049	%
Percent Moisture	None	1	23.2442438967951	%

**Lab Sample ID: 580-98033-D-4**

**Analysis Date: Oct 08, 2020 19:59**

Analyte	Detector	Dilution	Raw Result	Unit
Percent Solids	None	1	75.6921925667249	%
Percent Moisture	None	1	24.3078074332751	%

# Shipping and Receiving Documents

>> Select a Laboratory or Service Center <<

# Chain of Custody Record



Environment Testing  
America

98033

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Regulatory Program:  DW  NPDES  RCRA  Other:

#N/A  
#N/A  
#N/A  
##

Project Manager: Breann Green

COC No: \_\_\_\_\_

**Client Contact**  
Your Company Name here: Aspect Consulting  
Address: 350 Madison Ave, N  
City/State/Zip: Bainbridge Island, WA, 98110  
Phone: \_\_\_\_\_  
FAX: \_\_\_\_\_  
Project Name: New City Cleaners  
Site: New City Cleaners  
PO# 090018

Email: bgreen@aspectconsulting.com

Site Contact: \_\_\_\_\_

Date: 10/5/20

\_\_\_\_ of \_\_\_\_ COCs

Tel/Fax: 612 232 7343

**Analysis Turnaround Time**

Lab Contact: Lewis, Nathan

Carrier: \_\_\_\_\_

TALS Project #: \_\_\_\_\_

CALENDAR DAYS  WORKING DAYS

TAT if different from Below

Standard

2 weeks

1 week

2 days

1 day

1 day

Filtered Sample (Y/N)

Perform MS/MSD (Y/N)

PCE, TCE, CIS, DCE

VCI, TPH-DX

Sampler: Baxter Call

For Lab Use Only:

Walk-in Client: \_\_\_\_\_

Lab Sampling: \_\_\_\_\_

Job / SDG No.: \_\_\_\_\_

Sample Identification

Sample Date

Sample Time

Sample Type (C=Comp, G=Grab)

Matrix

# of Cont.

AB-01B-15.5

10/5/20 1205

G soil 4

X X X

Sample Specific Notes:

AB-02B-16.5

1235

↓ ↓ ↓

↓ ↓ ↓

AB-03B-16.5

1300

↓ ↓ ↓

↓ ↓ ↓

AB-04B-16.5

1340

↓ ↓ ↓

↓ ↓ ↓

Trip-Blank-02

10/5/20 1200

G liquid 1

↓ ↓

Therm ID: A2 Cor: 0.4 ° Unc: 0.5 °

Cooler Dsc: LB

Packing: Bubble

Cust. Seal: Yes No X

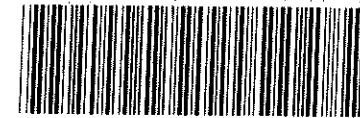
Blue Ice, Wet Dry, None

FedEx: \_\_\_\_\_

UPS: \_\_\_\_\_

Lab Cour: X

Other: \_\_\_\_\_



580-98033 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

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:

Do standard QC/MS/MSD for this project

Picked up from office, OLS 10/6/2020

Custody Seals Intact:  Yes  No

Custody Seal No.:

Cooler Temp. (°C): Obs'd: \_\_\_\_\_

Corr'd: \_\_\_\_\_

Therm ID No.:

Relinquished by: BWA

Company: Aspect

Date/Time: 10/5 17:30

Received by: Josh Yu

Company: ETA SEA

Date/Time: 10/6/2020 1155

Relinquished by:

Company:

Date/Time:

Received by:

Company:

Date/Time:

Relinquished by:

Company:

Date/Time:

Received in Laboratory by:

Company:

Date/Time:

# Login Sample Receipt Checklist

Client: Aspect Consulting

Job Number: 580-98033-1

**Login Number: 98033**

**List Source: Eurofins TestAmerica, Seattle**

**List Number: 1**

**Creator: Blankinship, Tom X**

<b>Question</b>	<b>Answer</b>	<b>Comment</b>
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# **ATTACHMENT D**

## **Photo Log**



Photograph 1. Installing soil vapor extraction (SVE) well with hollow stem auger technology in the New City Cleaners building. Well is 2-inch PVC in an 8-inch bore hole.



Photograph 2. Rental SVE skid from Presidio Systems, Inc. This is the location of the skid throughout the pilot test, riser pipe discharging above the roof is shown.





Photograph 3. SVE-02 lateral running north from the well. Piping was painted yellow for employee safety.



Photograph 4. SVE-01 pipe lateral running northwest from the well.



Photograph 5. SVE-01 and SVE-02 lateral junction including tee, flow meter, anemometer port, and sample port.



Photograph 6. Detailed view of SVE equipment provided by Presidio Systems, Inc.



Photograph 7. Electrical panel with new 30-amp circuit breaker added for SVE skid. SVE skid was wired into the control panel, and the breaker served as the on/off switch.



Photograph 8. SVE well after decommissioning, top of casing was modified such that the cap could be secured to protect employees from soil vapor intrusion.





Photograph 9. Sub-slab soil vapor sampling train and equipment. This example photo was taken at VP-06.

## **ATTACHMENT E**

### **Report Limitations and Guidelines for Use**

# REPORT LIMITATIONS AND USE GUIDELINES

## Reliance Conditions for Third Parties

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This report was prepared for the exclusive use of the Client. No other party may rely on this report or the product of our services without the express written consent of Aspect Consulting, LLC (Aspect). This limitation is to provide our firm with reasonable protection against liability claims by third parties with whom there would otherwise be no contractual conditions or limitations and guidelines governing their use of the report. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with the Client and recognized standards of professionals in the same locality and involving similar conditions.

## Services for Specific Purposes, Persons and Projects

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Aspect has performed the services in general accordance with the scope and limitations of our Agreement. This report has been prepared for the exclusive use of the Client and their authorized third parties, approved in writing by Aspect. This report is not intended for use by others, and the information contained herein is not applicable to other properties.

This report is not, and should not, be construed as a warranty or guarantee regarding the presence or absence of hazardous substances or petroleum products that may affect the subject property. The report is not intended to make any representation concerning title or ownership to the subject property. If real property records were reviewed, they were reviewed for the sole purpose of determining the subject property's historical uses. All findings, conclusions, and recommendations stated in this report are based on the data and information provided to Aspect, current use of the subject property, and observations and conditions that existed on the date and time of the report.

Aspect structures its services to meet the specific needs of our clients. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and subject property. This report should not be applied for any purpose or project except the purpose described in the Agreement.

## This Report Is Project-Specific

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Aspect considered a number of unique, project-specific factors when establishing the Scope of Work for this project and report. You should not rely on this report if it was:

- Not prepared for you
- Not prepared for the specific purpose identified in the Agreement
- Not prepared for the specific real property assessed
- Completed before important changes occurred concerning the subject property, project or governmental regulatory actions

If changes are made to the project or subject property after the date of this report, Aspect should be retained to assess the impact of the changes with respect to the conclusions contained in the report.

## **Geoscience Interpretations**

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The geoscience practices (geotechnical engineering, geology, and environmental science) require interpretation of spatial information that can make them less exact than other engineering and natural science disciplines. It is important to recognize this limitation in evaluating the content of the report. If you are unclear how these "Report Limitations and Use Guidelines" apply to your project or site, you should contact Aspect.

## **Discipline-Specific Reports Are Not Interchangeable**

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The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually address any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding the subject property.

## **Environmental Regulations Are Not Static**

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Some hazardous substances or petroleum products may be present near the subject property in quantities or under conditions that may have led, or may lead, to contamination of the subject property, but are not included in current local, state or federal regulatory definitions of hazardous substances or petroleum products or do not otherwise present potential liability. Changes may occur in the standards for appropriate inquiry or regulatory definitions of hazardous substance and petroleum products; therefore, this report has a limited useful life.

## **Property Conditions Change Over Time**

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This report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time (for example, Phase I ESA reports are applicable for 180 days), by events such as a change in property use or occupancy, or by natural events, such as floods, earthquakes, slope failure or groundwater fluctuations. If more than six months have passed since issuance of our report, or if any of the described events may have occurred following the issuance of the report, you should contact Aspect so that we may evaluate whether changed conditions affect the continued reliability or applicability of our conclusions and recommendations.

## **Phase I ESAs – Uncertainty Remains After Completion**

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Aspect has performed the services in general accordance with the scope and limitations of our Agreement and the current version of the “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process”, ASTM E1527, and U.S. Environmental Protection Agency (EPA)'s Federal Standard 40 CFR Part 312 "Innocent Landowners, Standards for Conducting All Appropriate Inquiries".

No ESA can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with subject property. Performance of an ESA study is intended to reduce, but not eliminate, uncertainty regarding the potential for environmental conditions affecting the subject property. There is always a potential that areas with contamination that were not identified during this ESA exist at the subject property or in the study area. Further evaluation of such potential would require additional research, subsurface exploration, sampling and/or testing.

## **Historical Information Provided by Others**

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Aspect has relied upon information provided by others in our description of historical conditions and in our review of regulatory databases and files. The available data does not provide definitive information with regard to all past uses, operations or incidents affecting the subject property or adjacent properties. Aspect makes no warranties or guarantees regarding the accuracy or completeness of information provided or compiled by others.

## **Exclusion of Mold, Fungus, Radon, Lead, and HBM**

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Aspect's services do not include the investigation, detection, prevention or assessment of the presence of molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detection, assessment, prevention or abatement of molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts. Aspect's services also do not include the investigation or assessment of hazardous building materials (HBM) such as asbestos, polychlorinated biphenyls (PCBs) in light ballasts, lead based paint, asbestos-containing building materials, urea-formaldehyde insulation in on-site structures or debris or any other HBMs. Aspect's services do not include an evaluation of radon or lead in drinking water, unless specifically requested.